MONO COUNTY PUBLIC WORKS DEPARTMENT

NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

MONO COUNTY NEW JAIL

NEW CONSTRUCTION

GOVMOTUS No:22-N-3854-CP-DR

CONSTRUCTION DOCUMENTS SEPTEMBER 11, 2023 VOLUME 1 OF 2

LIONAKIS
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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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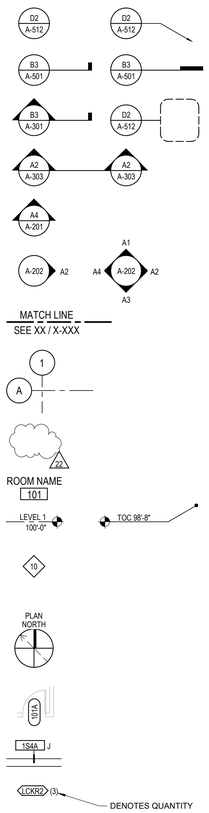
TITLE
COVER SHEET - VOLUME 1

SHEET
G-001
V1

Draft

ARCHITECTURAL SYMBOLS LEGEND



- DETAIL INDICATOR - REFERENCE & DETAIL INDICATOR - ITEM
- DETAIL INDICATOR - SECTION & DETAIL INDICATOR - SECTION ITEM
- SECTION INDICATOR - PARTIAL BUILDING/WALL & DETAIL INDICATOR - AREA
- SECTION INDICATOR - BUILDING
- ELEVATION INDICATOR - EXTERIOR
- ELEVATION INDICATOR - INTERIOR, SINGLE & MULTIPLE VIEW
- MATCH LINE INDICATOR
- REFERENCE GRID WITH REFERENCE GRID LINES
- REVISION INDICATOR & REVISION CLOUD
- ROOM IDENTIFIER WITH ROOM NAME & NUMBER
- ELEVATION INDICATOR - LEVEL & SPOT
- WINDOW OR LOUVER IDENTIFIER
- PLAN NORTH & TRUE NORTH INDICATOR
- DOOR OPENING IDENTIFIER
- PARTITION TYPE INDICATOR
- ACCESSORY TAG

DENOTES QUANTITY

LIST OF ARCHITECTURAL ABBREVIATIONS

	SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABBREVIATIONS NOT LISTED BELOW.
&	AND
@	AT
(E)	EXISTING
'	FOOT, FEET
"	INCH(ES)
#	NUMBER
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT / ENGINEER
AB	ANCHOR BOLT
ABV	ABOVE
AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTIC
AD	AREA DRAIN
ADC	AUTOMATIC DOOR CLOSER
ADO	AUTOMATIC DOOR OPERATOR
ADDL	ADDITIONAL
ADJ SHV	ADJUSTABLE SHELVING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ASSY	ASSEMBLY
BD	BOARD
BKG	BACKING
BLDG	BUILDING
BM	BEAM
BM	BENCHMARK
BOT	BOTTOM
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
C	CHANNEL
CAB	CABINET
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CEM	CEMENT
CEM PLAS	CEM PLASTER
CFLG	COUNTERFLASHING
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CI	CAST IRON
CJ	CONSTRUCTION JOINT / CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUE / CONTINUOUS
COTG	CLEANOUT TO GRADE
CP	CONTROL PANEL
CPT	CARPET
CRS	COLD ROLLED STEEL
CSK	COUNTER SUNK
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DHM	DETENTION HOLLOW METAL
DIA	DIAMETER
DIM	DIMENSION
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DWG	DRAWING
DWR	DRAWER
EA	EACH
EGSB	EXTERIOR GYPSUM SHEATHING BOARD
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC / ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EPB	ELECTRICAL PANEL BOARD
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FB	FLAT BAR
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH
FLG	FLOORING
FLL	FLOW LINE
FLR	FLOOR
FOC	FACE OF CONCRETE/CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIREPROOF
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET / FOOT
FTG	FOOTING
FURG	FURRING
FUT	FUTURE
G	GROUND; NATURAL GAS
GA	GAGE
GALV	GALVANIZED
GB	GRAB BAR
GI	GALVANIZED IRON
GLU LAM	GLUED LAMINATED WOOD
GYP	GYPSUM
HB	HOSE BIB
HC	HOLLOW CORE
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
KIT	KITCHEN
L	ANGLE
LAB	LABORATORY
LAV	LAVATORY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MULL	MULLION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFF	OFFICE
OFL	OVER FLOW LEADER
OGL	OBSCURE GLASS
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PAF	POWER ACTUATED FASTENER
PL	PROPERTY LINE; PLATE
PLAM	PLASTIC LAMINATE
PLB	PLUMB
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT; PAINT
PTN	PARTITION
PV	PHOTOVOLTAIC
QT	QUARRY TILE
R	RADIUS; RISER
RD	ROOF DRAIN
REBAR	REINFORCING STEEL BAR
REF	REFERENCE
REF	REFRIGERATOR
REINF	REINFORCE / REINFORCING
REQD	REQUIRED
RESIL	RESILIENT
RM	ROOM
RO	ROUGH OPENING
RWD	REDWOOD
RWL	RAIN WATER LEADER
SAD	SEE ARCHITECTURAL DRAWINGS
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN
SDST	SELF DRIVING, SELF TAPPING
SHT	SHEET
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SLNT	SEALANT
SM	SHEET METAL
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SEWER; SERVICE SINK
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP CLG	SUSPENDED CEILING
SV	SHEET VINYL
SYMM	SYMMETRICAL
SYS	SYSTEM
T	TREAD
T&G	TONGUE & GROOVE
TEL	TELEPHONE
THK	THICKNESS
TMH	TOP OF MANHOLE
TMPD	TEMPERED
TO	TOP OF
TOC	TOP OF CURB
TOF	TOP OF FRAME
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER/CABINET
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VFY	VERIFY
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
W/O	WHERE OCCURS
WP	WORKING POINT
WPM	WATERPROOF MEMBRANE
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WWR	WELDED WIRE REINFORCEMENT

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APPLICABLE CODES

APPLICABLE REQUIREMENTS OF CODES AND STANDARDS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

CALIFORNIA BUILDING CODE (CBC)

CALIFORNIA CODE OF REGULATIONS TITLE 19
PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

CALIFORNIA CODE OF REGULATIONS TITLE 24

PART 1	2022	CALIFORNIA ADMINISTRATIVE CODE
PART 2	2022	CALIFORNIA BUILDING CODE VOLS. 1 & 2 (2021 IBC AS AMENDED BY CA)
PART 3	2022	CALIFORNIA ELECTRICAL CODE (2020 NEC AS AMENDED BY CA)
PART 4	2022	CALIFORNIA MECHANICAL CODE (2021 IMC AS AMENDED BY CA)
PART 5	2022	CALIFORNIA PLUMBING CODE (2021 IPC AS AMENDED BY CA)
PART 6	2022	CALIFORNIA ENERGY CODE (CEC)
PART 9	2022	CALIFORNIA FIRE CODE (2021 IFC AS AMENDED BY CA)
PART 11	2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen)
PART 12	2022	CALIFORNIA REFERENCED STANDARDS CODE

PARTIAL LIST OF APPLICABLE STANDARDS

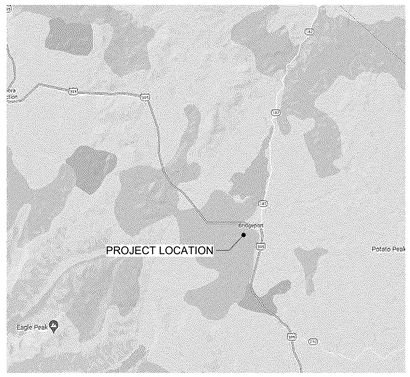
NFPA 10	STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2021 EDITION
NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 14	STANDPIPE SYSTEMS (CA AMENDED)	2019 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED)	2019 EDITION
NFPA 70	NATIONAL ELECTRICAL CODE (CA AMENDED)	2020 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 96	STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS	2020 EDITION
NFPA 170	STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS	2018 EDITION
NFPA 241	STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS	2019 EDITION
NFPA 780	STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS	2017 EDITION
NFPA 1225	STANDARD FOR EMERGENCY SERVICES COMMUNICATIONS	2022 EDITION
2010 ADA	STANDARDS FOR ACCESSIBLE DESIGN	

MINIMUM STANDARDS FOR LOCAL DETENTION FACILITIES, TITLE 24
PART 1, SECTION 13-102
PART 2, SECTION 1231

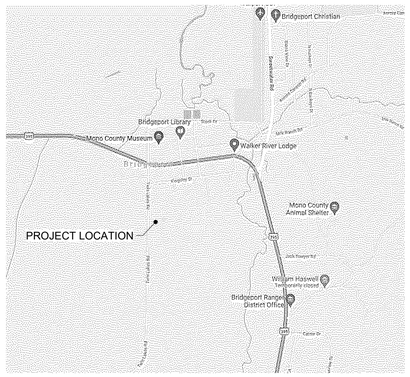
CONSTRUCTION PHASE SHALL COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, TITLE 19, DIVISION 1, CALIFORNIA CODE OF REGULATIONS (CCR) & 2019 NFPA 241

ALL FINISHES , FURNISHINGS AND MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF 2022 CBC/CFC CHAPTER 8 & CCR TITLE 19 FOR FLAME SPREAD AND SMOKE DEVELOPMENT

LOCATION MAP



VICINITY MAP



PROJECT DATA

REFER TO SHEETS GL101, GL110, AND GL111 FOR PROJECT DATA, BUILDING CONSTRUCTION TYPE, OCCUPANCY CLASSIFICATIONS, CODE ANALYSIS, AND LIFE SAFETY FLOOR/SITE PLANS.

NOTE: ADDITIONAL FLOW TEST IS REQUIRED PRIOR TO CONSTRUCTION AND SHALL BE PERFORMED BY C-16 LICENSED CONTRACTOR AND WITNESSED BY AHJ/DSFM.

SCOPE OF PROJECT

THIS PROJECT CONSISTS OF A NEW SINGLE STORY 21,815 SQUARE FOOT DETENTION FACILITY (JAIL) AND ASSOCIATED SITE IMPROVEMENTS (INCLUDING BUT NOT LIMITED TO A DISPATCH TOWER AND COMMUNICATIONS SHELTER). THE BUILDING WILL INCLUDE SIX HOUSING UNITS (TOTAL OF 48 BSCC RATED BEDS) FOR BOTH MEN AND WOMEN CONSISTING OF TWO (11) BED CELL UNITS, TWO (10) BED DORM UNITS, ONE (4) BED DORM UNIT, ONE (2) BED AD-SEG UNIT, AND ONE ISOLATION BED. ALSO INCLUDED ARE PROGRAM SPACES, INTAKE AND PROCESSING, FOOD SERVICE AND LAUNDRY, AND ADMIN. SPACE FOR STAFF. THIS IS A TYPE II FACILITY AS DESCRIBED IN THE CALIFORNIA ADMINISTRATIVE CODE, CHAPTER 13.

DEFERRED SUBMITTALS

APPROVAL OF THE AUTOMATIC FIRE ALARM SYSTEM AND THE AUTOMATIC FIRE SPRINKLER SYSTEM BY THE CALIFORNIA STATE FIRE MARSHAL IS DEFERRED. SHOP DRAWINGS FOR THESE SYSTEMS MUST BE SUBMITTED TO THE CALIFORNIA STATE FIRE MARSHAL AND THE BOARD OF STATE AND COMMUNITY CORRECTIONS FOR APPROVAL PRIOR TO INSTALLATION.

THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE ARTICLE 760, CALIFORNIA FIRE CODE SECTION 907, AND THE 2022 EDITION OF THE NFPA 72. INSTALLATION OF THE SYSTEM SHALL NOT BEGIN UNTIL PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT, HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL AND THE LOCAL FIRE AUTHORITY.

THE AUTOMATIC FIRE EXTINGUISHING SYSTEM IN THE KITCHEN HOOD IS A DEFERRED APPROVAL ITEM.

EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (IF REQUIRED) IS A DEFERRED APPROVAL ITEM.

CONSTRUCTION TRAILER LAYOUT AND LOCATION IS DEFERRED APPROVAL ITEM AND WILL BE SUBMITTED BY CONTRACTOR.

SHEET IDENTIFICATION LEGEND

DISCIPLINE DESIGNATORS - LEVEL 1

- G GENERAL
- H HAZARDOUS MATERIALS
- V SURVEY/MAPPING
- B GEOTECHNICAL
- C CIVIL
- L LANDSCAPE
- S STRUCTURAL
- A ARCHITECTURAL
- I INTERIORS
- Q EQUIPMENT
- F FIRE PROTECTION
- P PLUMBING
- D PROCESS
- M MECHANICAL
- E ELECTRICAL
- W DISTRIBUTED ENERGY
- T TELECOMMUNICATIONS
- R RESOURCE
- X OTHER DISCIPLINES
- Z CONTRACTOR/SHOP DRAWINGS
- O OPERATIONS

SHEET TYPE DESIGNATORS

- 0 - GENERAL
- 1 - PLANS
- 2 - ELEVATIONS
- 3 - SECTIONS
- 4 - LARGE SCALE VIEWS
- 5 - DETAILS
- 6 - SCHEDULES & DIAGRAMS
- 7 - USER DEFINED
- 8 - USER DEFINED
- 9 - 3D REPRESENTATIONS

C.A-123AB

- BUILDING IDENTIFIER - WHERE OCCURS
- DISCIPLINE DESIGNATOR - LEVEL 1
- DISCIPLINE DESIGNATOR - LEVEL 2 REPLACE DASH WHERE OCCURS
- SHEET TYPE DESIGNATOR
- SHEET TYPE SUBSET DESIGNATOR
- LEVEL/SEQUENCE DESIGNATOR
- AREA IDENTIFIER - WHERE OCCURS
- UNIQUE PORTION IDENTIFIER - WHERE OCCURS

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
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IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

SHEET INDEX - VOLUME 1

GENERAL
G-001 COVER SHEET - VOLUME 1
G-002 SHEET INDEX - VOLUME 1
G-091 CALGREEN WORKSHEET
G-092 CALGREEN WORKSHEET
G-093 CALGREEN WORKSHEET
G-094 CALGREEN WORKSHEET
G-095 NRCC WORKSHEETS
G-911 EXTERIOR RENDERINGS
G-912 EXTERIOR RENDERINGS
GA401 LARGE SCALE VIEWS - SITE - ACCESSIBILITY PLAN
GA501 DETAILS - SITE - ACCESSIBILITY
GA511 ACCESSIBILITY REQUIREMENTS
GA512 ACCESSIBILITY REQUIREMENTS
GA513 ACCESSIBILTY SIGNAGE STANDARDS AND DETAILS
GB110 BSCC CODE ANALYSIS
GB111 BSCC CODE COMPLIANCE - FLOOR PLAN
GL021 FIRE HYDRANT FLOW TEST REPORT
GL101 FIRE LIFE SAFETY - SITE PLAN
GL110 CODE ANALYSIS
GL111 LIFE SAFETY FLOOR PLAN
GL501 LIFE SAFETY DETAILS
GL502 UL LISTINGS - N782, P732
GL503 UL LISTINGS - U419, Y710
GL504 UL LISTINGS - X795, HW-D-0264, BW-S-0002
GL505 UL LISTINGS - HW-D-0415, HW-D-0042, HW-D-0248,
GL506 UL LISTINGS - U415, W-L-7004, W-L-7277
GL507 UL LISTINGS - D925
GL508 UL LISTINGS - HW-D-0218, HW-D-0440

CIVIL
C-001 CIVIL NOTES, LEGEND, AND ABBREVIATION
C-101 HORIZONTAL CONTROL PLAN
C-102 GRADING AND DRAINAGE PLAN
C-103 UTILITY PLAN
C-104 UTILITY PROFILE STORM DRAIN
C-105 UTILITY PROFILE SANITARY SEWER
C-106 UTILITY PROFILE WATER
C-501 CIVIL DETAILS
C-502 CIVIL DETAILS

LANDSCAPE
L-101 SCHEMATIC LANDSCAPE SITE PLAN
L-201 CONSTRUCTION DETAILS
L-301 IRRIGATION PLAN
L-401 PLANTING PLAN
L-501 LANDSCAPE DETAILS
L-502 LANDSCAPE DETAILS
L-601 WELO NOTES AND CALCULATIONS

STRUCTURAL
S-001 GENERAL NOTES
S-011 TYPICAL NOTES
S-012 TYPICAL NOTES
S-013 TYPICAL NOTES
S-014 STATEMENT OF SPECIAL INSPECTIONS
SB111 PLAN - FOUNDATION - LEVEL 1
S-111 PLAN - SLAB - LEVEL 1
S-121 PLAN - LID FRAMING - LEVEL 2
S-132 PLAN - ROOF FRAMING - LEVEL 2
S-201 3D VIEWS
S-202 3D VIEWS
S-311 SECTIONS - BUILDING
S-312 SECTIONS - BUILDING
S-313 SECTIONS - BUILDING
S-314 SECTIONS - BUILDING
S-315 SECTIONS - BUILDING
S-451 ENLARGED PLANS - ENTRY CANOPY
S-452 DETAILS - ENTRY CANOPY
S-531 DETAILS - TYPICAL CONCRETE
S-532 DETAILS - TYPICAL CONCRETE
S-533 DETAILS - TYPICAL CONCRETE FOUNDATIONS AT MASONRY
S-534 DETAILS - CONCRETE FOUNDATIONS
S-541 DETAILS - TYPICAL MASONRY
S-542 DETAILS - TYPICAL MASONRY
S-543 DETAILS - TYPICAL MASONRY - INSULATED
S-544 DETAILS - TYPICAL MASONRY
S-545 DETAILS - MASONRY
S-546 DETAILS - MASONRY
S-547 DETAILS - MASONRY
S-548 DETAILS - MASONRY
S-551 DETAILS - TYPICAL STRUCTURAL STEEL BEAMS
S-552 DETAILS - TYPICAL STRUCTURAL STEEL
S-553 DETAILS - TYPICAL STRUCTURAL STEEL LEDGERS AT MASONRY
S-571 DETAILS - TYPICAL STEEL DECKING
S-581 DETAILS - EQUIPMENT ANCHORAGE
S-591 DETAILS - TYPICAL COLD FORMED STEEL FRAMING
S-592 DETAILS - TYPICAL COLD FORMED STEEL FRAMING

ARCHITECTURAL
AS101 SITE PLAN
AS102 SITE LOGISTICS PLAN
AS411 LARGE SCALE VIEWS - SITE
AS412 LARGE SCALE VIEWS -SITE
AS501 SITE DETAILS
AS502 SITE DETAILS
AS503 SITE DETAILS
A-111 FLOOR PLAN - LEVEL 1 - OVERALL
A-111A FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'A'
A-111B FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'B'
A-111C FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'C'
A-111D FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'D'
A-121 CEILING PLAN - LEVEL 1 - OVERALL
A-121A CEILING PLAN - LEVEL 1 - ENLARGED - AREA 'A'
A-121B CEILING PLAN - LEVEL 1 - ENLARGED - AREA 'B'
A-121C CEILING PLAN - LEVEL 1 - ENLARGED - AREA 'C'
A-121D CEILING PLAN - LEVEL 1 - ENLARGED - AREA 'D'
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ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
SHEET INDEX - VOLUME 1

SHEET
G-002

V1

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CODE SECTION	CODE REQUIREMENT	TEAM LEAD	TEAM SUPPORT	REQUIREMENT	DETAIL	PROJECT COMMENTS	SHEET/SPEC REFERENCE
	Division 5.1 Planning and Design						
5.106	**Site Development**	N/A	N/A				
5.106.1	**Stormwater Pollution Prevention for Projects That Disturb Less Than One Acre of Land**	**CIVIL**		Newly constructed projects and additions which disturb less than one acre of land and are not part of a larger common plan of development or sale shall prevent the pollution of stormwater runoff from the construction activities through one or more of the following measures:			
5.106.1.1	**Local Ordinance**	**CIVIL**		Comply with a lawfully enacted stormwater management and/or erosion control ordinance.		The stormwater collection, conveyance, and detention elements of the project are designed with the County's Low-Impact Development strategy. The specifics about the stormwater managemnt of the project are summarized in the Mono County Jail Final Drainage Study (NCE, 2023) and the project plans and specifications.	C-102, C-501 / Spec section 33 47 26.16
5.106.1.2	**Best Management Practices (BMP's)**	**CIVIL**		Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMP's. 1. Soil loss BMP's that should be considered for implementation as appropriate for each project include, but are not limited to, the following: a. Scheduling construction activity during dry weather, when possible. b. Preservation of natural features, vegetation, soil and buffers around surface waters. c. Drainage swales or lined ditches to control stormwater flow. d. Mulching or hydroseeding to stabilize disturbed soils. e. Erosion control to protect slopes. f. Protection of storm drain inlets (gravel bags or catch basin inserts). g. Perimeter sediment control (perimeter silt fence, fiber rolls). h. Sediment trap or sediment basin to retain sediment on site. i. Stabilized construction exits. j. Wind erosion control. k. Other soil loss BMP's acceptable to the enforcing agency.	2. Good housekeeping BMP's to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following: a. Dewatering activities. b. Material handling and waste management. c. Building materials stockpile management. d. Management of washout areas (concrete, paints, stucco, etc.). e. Control of vehicle/equipment fueling to contractor's staging area. f. Vehicle and equipment cleaning performed off site. g. Spill prevention and control. h. Other housekeeping BMP's acceptable to the enforcing agency.	BMPs should be included in a SWPPP to be prepared, maintained, and implemented by the Contractor as part of their work.	C-001
5.106.2	**Stormwater Pollution Prevention for projects that disturb one or more acres of land**	**CIVIL**		Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development or sale. Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development or sale must comply with the postconstruction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).	The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration and infiltration through nonstructural controls, such as Low Impact Development (LID) practices and conservation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency. Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.	As this project will disturb more than 1-acre of land, three bioretention basins, which are classified as LID design, will accept onsite runoff and infiltrate/treat it. The bioretention basins will decrease the peak rates of runoff from the site in the three design rainstorm events (5-, 20-, and 100-year) below existing conditions rates. They will also lower the runoff volume in the 85th percentile storm event below existing conditions as calculated by the California Water Boards Post-Construction Water Balance Calculator. Additionally, 1.22 acres of impervious area will be disconnected with the proposed site development.	Mono County Jail Final Drainage Study; Mono County New Jail Civil Design Plan sheets C-101, C-102, C-103, C501;Special Provisions Section 33 47 26.16: Retention Basin and Bioswale
5.106.4	**Bicycle Parking**	**LAND**	**ARCH**	For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2.		There are 24 parking stalls - Code requires bicycle parkinh be provided equal to 5% of the parking (5% of 24 is 1.2) - There are 2 long term bike locker spaces and 4 short-term bike parking (2 bike racks) Exceeds code minimums.	
5.106.4.1	**Bicycle Parking**	**LAND**	**ARCH**	Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.		The local codes do not exceed CBC requirements - See above.	
5.106.4.1.1	**Short-Term Bicycle Parking**	**LAND**	**ARCH**	If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.	Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.	The bicycle parking is within 200 feet of the entry and is clearly visible from the buildign entry.	
5.106.4.1.2	**Long-Term Bicycle Parking**	**LAND**	**ARCH**	For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.		Compliant - See above - The bike racks and lockers are next to each other.	
5.106.4.1.3	-	**LAND**	**ARCH**	For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.		Compliant - See above	
5.106.4.1.4	-	**LAND**	**ARCH**	For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.		Compliant - See above	
5.106.4.1.5	-	**LAND**	**ARCH**	Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3 and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:	1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers. Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.	One permantently anchored and lockable bike locker is provided with a dividing partition to allow for two bikes. Two separate lockable doors.	
5.106.4.2	**Bicycle Parking**	**LAND**	**ARCH**	For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2.		N/A	
5.106.4.2.1	**Student Bicycle Parking**	**LAND**	**ARCH**	Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.		N/A	
5.106.4.2.2	**Staff Bicycle Parking**	**LAND**	**ARCH**	Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:	1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers.	N/A	
5.106.5.3	**Electric Vehicle (EV) Charging**	**ELEC**	**ARCH**	Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.	Exceptions: 1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions: a. Where there is no local utility power supply. b. Where the local utility is unable to supply adequate power. c. Where there is evidence suitable to the local enforcement agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project. 2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section.		ES101, E-773
5.106.5.3.1	**EV Capable Spaces**	**ELEC**	**ARCH**	EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements: 1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box, enclosure or equivalent. A common raceway may be used to serve multiple EV capable spaces. 2. A service panel or subpanel(s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS. 3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space. 4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective device space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."	**Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See Vehicle Code Section 22511.2 for further details.** **See Table 5.106.5.3.1 on sheet G-094**	Conduit stubs for EV capable spaces are indicated on sheet ES101, key note 26-238. Panel "L2EV" is dedicated for future EV chargers - see sheet E-773. EVCS spaces provide as following: Public parking: 4 spaces Staff parking: 4 spaces For parting layout, refer to sheets AS101 & AS411 (2) of (8) above EVCS provided with EVSE.	ES101, E-773, AS411
5.106.5.3.2	**Electric Vehicle Charging Stations (EVCS)**	**ELEC**	**ARCH**	EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided. One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger. The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.		Per Table 5.106.5.3.1, (2) of (8) EVCS require EVSE to be provided. Actual provided: (2) EVSE.	AS101 AS411
5.106.5.3.3	**Use of Automatic Load Management Systems (ALMS)**	**ELEC**		ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.			N/A
5.106.5.3.4	**Accessible EVCS**	**ARCH**		When EVSE is installed, accessible EVCS shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3.	Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).	Accessible EVCS spaces provided: Public parking: 1 ADA EVCS Staff parking: 1 ADA EVCS	AS411
5.106.8	**Light Pollution Reduction**	**ELEC**		Outdoor lighting systems shall be designed and installed to comply with the following: 1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and 2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8); 3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and 4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.	Exceptions: 1. Luminaires that qualify as exceptions in Sections 130.2(b) and 140.7 of the California Energy Code. 2. Emergency lighting. 3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6. 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction. 5. Luminaires with less than 6,200 initial luminaire lumens. See Table 5.106.8 on sheet G-094	Per CEC 100.0, buildings in Occupancy Group I-3 are exempt from the entire CEC calculations. Therefore, Group I-3 is implied in section 140.7 of the CEC and exempt from compliance with the Light Pollution Reduction requirement. In addition, jails require minimum foot candle levels on the premises for security reasons. These light levels would not be achievable if the Light Pollution Reduction requirements would be imposed, therefore compromising the security of the jail.	
5.106.8.1	**Facing — Backlight**	**ELEC**		Luminaires within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.	Exception: Corners. If two property lines (or two segments of the same property line) have equidistant points to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest point(s) on the property lines to determine the required backlight rating.	See section 5.106.8 Project Comments.	
5.106.8.2	**Facing — Glare**	**ELEC**		For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.	Notes: 1. See also California Building Code, Chapter 12, Section 1205.7 for college campus lighting requirements for parking facilities and walkways. 2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B. 3. Refer to the California Energy Code for requirements for additions and alterations.	See section 5.106.8 Project Comments.	
5.106.10	**Grading and Paving**	**CIVIL**		Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:	1. Swales. 2. Water collection and disposal systems. 3. French drains. 4. Water retention gardens. 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge. Exception: Additions and alterations not altering the drainage path.	Site is graded at minimum 2% away from building. Surface runoff is directed to a series of 3 bioretention basins connected by vegetated bioswales and eventually discharging from the site at the existing outfall on the eastern portion of the parcel. Roof runoff is captured in downspouts and conveyed through storm drain pipe to the bioretention basins.	C-102, C-103, C-104, C-501
5.106.12	**Shade Trees**	**LAND**		Shade trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2 and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.		Shade trees are provided in finger planters and meet/exceed the requirements (sheet L-401). All trees are irrigated on a separate circuit from the rest of the landscape.	L-401
5.106.12.1	**Surface Parking Areas**	**LAND**		Shade tree plantings, minimum No. 10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.	Exceptions: Surface parking area covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree plantings.	Design complies - 15-gallon trees, spreading trees	
5.106.12.2	**Landscape Areas**	**LAND**		Shade tree plantings, minimum No. 10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.	Exception: Playfields for organized sport activity are not included in the total area calculation.	Plan does not comply - It complies with the landscape area between the building and street, but not the area to the south and east (which is not formal landscape).	
5.106.12.3	**Hardscape Areas**	**LAND**		Shade tree plantings, minimum No. 10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.	Exceptions: 1. Walks and hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree plantings. 2. Designated and marked play areas of organized sport activity are not included in the total area calculation.	Plan does not comply - It complies with the hardscape area around the parking lot and entry, but that's it.	
	Division 5.2 Energy Efficiency						
5.201	**General**	N/A	N/A				
5.201.1	**Scope**	**MECH**		California Energy Code. For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.		Mechanical equipment meets minimum efficiencies required by CA Mechanical & Energy Code, and ASHRAE 90.1	Specifications section 23 80 00, sheet M-002
	Division 5.3 Water Efficiency and Conservation						
5.303	**Indoor Water Use**	N/A	N/A				
5.303.1	**Meters**	**PLUMB**		Separate submeters or metering devices shall be installed for the uses described in Sections 5.303.1.1 and 5.303.1.2.			
5.303.1.1	**New Buildings or Additions in Excess of 50,000 Square Feet**	**PLUMB**		Separate submeters shall be installed as follows: 1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop. 2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems: a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s). b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s). c, Steam and hot-water boilers with energy input more than 500,000 Btu/h (147 kW).		N/A	
5.303.1.2	**Excess Consumption**	**PLUMB**		A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.		N/A	
5.303.3	**Water conserving plumbing fixtures and fittings.**	**PLUMB**		Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:			
5.303.3.1	**Water Closets**	**PLUMB**		The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the US EPA WaterSense Specification for Tank-Type Toilets.	Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.	Water closet flush volumes are 1.28 gpf	Sheet P-002
5.303.3.2.1	**Wall-Mounted Urinals**	**PLUMB**		The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.		Urinal flush volumes are 0.125 gpf	Sheet P-002
5.303.3.2.2	**Floor-Mounted Urinals**	**PLUMB**		The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.		Urinal flush volumes are 0.125 gpf	Sheet P-002
5.303.3.3.1	**Single Showerhead**	**PLUMB**		Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the US EPA WaterSense Specification for Showerheads.		Showers are limited to 1.5 gpm	Sheet P-002

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SEPTEMBER 11, 2023

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SHEET
G-091

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5.303.3.3.2	**Multiple Showerheads Serving One Shower**	PLUMB		When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.	Note: A hand-held shower shall be considered a showerhead.	Showers are limited to 1.5 gpm	Sheet P-002
5.303.3.4.1	**Nonresidential Lavatory Faucets**	PLUMB		Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.		Lavatories are limited to 0.5 gpm	Sheet P-002
5.303.3.4.2	**Kitchen Faucets**	PLUMB		Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.		The current CEC flow rate restrictions (California) specifically depend upon the end-user's faucet application. Commercial kitchen faucets (large compartment sinks, pot & kettle fillers, utility service sinks, etc) are noted as Exempted. All other general prep sinks and hand sinks will have faucets that meet maximum flow rates	
5.303.3.4.3	**Wash Fountains**	PLUMB		Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi].		N/A	
5.303.3.4.4	**Metering Faucets**	PLUMB		Metering faucets shall not deliver more than 0.20 gallons per cycle.		N/A	
5.303.3.4.5	**Metering Faucets for Wash Fountains**	PLUMB		Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/20 [rim space (inches) at 60 psi].	Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.	N/A	
5.303.3.4.6	**Pre-Rinse Spray Valve**	PLUMB		When installed, shall meet the requirements in the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1(h)(4) Table H-2, Section 1605.3(h)(4)(A), and Section 1607(d)(7), and shall be equipped with an integral automatic shutoff.	FOR REFERENCE ONLY: The following table and code section have been reprinted from the California Code of Regulations, Title 20 (Appliance Efficiency Regulations), Section 1605.1(h)(4) and Section 1605.3(h)(4)(A).	N/A	
5.303.4.1	**Food Waste Disposers**	PLUMB		Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.	Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.	DISPOSERS NOT SPECIFIED ON THIS PROJECT	
5.303.5	**Areas of Addition or Alteration**	PLUMB		For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Sections 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.		N/A	
5.303.6	**Standards for Plumbing Fixtures and Fittings**	PLUMB		Plumbing fixtures and fittings shall be installed in accordance with the California Plumbing Code, and shall meet the applicable standards referenced in Table 1701.1 of the California Plumbing Code and in Chapter 6 of this code.		CONFIRMED	
5.304	**Outdoor Water Use**	N/A	N/A				
5.304.1	**Outdoor potable water use in landscape areas.**	LAND		Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.	Notes: 1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2. 2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.	All of the WELO Notes, Tables, Schedules, and Calculations are provided on sheet L-601-WELO in the landscape plan set. The landscape meets the requirements of WELO for everything.	L-601
5.304.6	**Outdoor potable water use in landscape areas.**	LAND		For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.	Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO. Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.	N/A	
5.304.6.1	**Newly Constructed Landscapes**	LAND		New construction projects with an aggregate landscape area equal to or greater than 500 square feet.		N/A	
5.304.6.2	**Rehabilitated Landscapes**	LAND		Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.		N/A	
	Division 5.4 Material Conservation and Resource Efficiency						
5.407	**Water Resistsance and Moisture Management**	N/A	N/A				
5.407.1	**Weather Protection**	ARCH		Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.		Exterior walls are either fully grounted CMU or contain a continue moisture barrier.	A-511 to A-514
5.407.2.1	**Sprinklers**	LAND		Design and maintain landscape irrigation systems to prevent spray on structures.		All proposed Irrigation is drip and/or bubbler. There is no spray irrigation proposed	
5.407.2.2	**Entries and Openings**	ARCH		Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:	Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows: 5.407.2.2.1 Exterior Door Protection Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: 1. An installed awning at least 4 feet in depth. 2. The door is protected by a roof overhang at least 4 feet in depth. 3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection. 5.407.2.2.2 Flashing Install flashings integrated with a drainage plane.	Canopy provided for main entry at the door 100 (refer to sheet AS501) and second entry at the door 121 (refer to sheet A-515).	AS501, A-515
5.408	**Construction Waste Reduction, Disposal and Recycling**	N/A	N/A				
5.408.1	**Construction Waste Management**	CONTRACTOR	ARCH	Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.		The project goal is 75% for diversion; no provisions for alternative compliance.	01 74 00
5.408.1.1	**Construction Waste Management Plan**	CONTRACTOR	ARCH	Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.	Exceptions to Sections 5.408.1.1: 1. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.	The project goal is 75% for diversion; no provisions for alternative compliance.	01 74 00
5.408.1.2	**Waste Management Company**	CONTRACTOR	ARCH	Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.	Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Exceptions to Sections 5.408.1.2: 1. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.	Monitoring of construction waste is being asked for in the project specifications	01 74 00
5.408.1.3	**Waste Stream Reduction Alternative**	CONTRACTOR	ARCH	The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.		1.1.B sets the project goal at 75% diversion; no provisions for alternative compliance.	01 74 00
5.408.1.4	**Documentation**	CONTRACTOR	ARCH	Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.	Notes: 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at https://www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-CommissionResources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan. 2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).	Documentation will be provided by the contractor.	01 74 00
5.408.2	**Universal Waste**	CONTRACTOR	ARCH	Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.	Note: Refer to the Universal Waste Rule link at: https://dtsc.ca.gov/universalwaste/	N/A	
5.408.3	**Excavated Soil and Land Clearing Debris**	CONTRACTOR	CIVIL	100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.	Exception: Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation. Notes: 1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. (www.cdfa.ca.gov/exec/county/county_contacts.html) 2. For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)		
5.410	**Building Maintenance and Operation**	N/A	N/A				
5.410.1	**Recycling by Occupants**	ARCH	OWNER	Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste and metals, or meet a lawfully enacted local recycling ordinance, if more restrictive.	Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.	Each office is to receive trash and recycling bin. Staff Break Room, Public Lobby, Conference and Work Rooms will also receive trash and recycling bins.	N/A
5.410.1.1	**Additions**	ARCH	OWNER	All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30 percent or more in floor area, shall provide recycling areas on site.	Exception: Additions within a tenant space resulting in less than a 30-percent increase in the tenant space floor area.	N/A	
5.410.1.2	**Sample Ordinance**	ARCH	OWNER	Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the Public Resources Code. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).	Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.	Owner will incorporate.	
5.410.2	**Commissioning**	CxA MECH PLUMB ELEC	ARCH	New buildings 10,000 square feet and over. For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated by the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply. Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements. Commissioning requirements shall include: 1. Owner's or owner representative's project requirements. 2. Basis of design. 3. Commissioning measures shown in the construction documents. 4. Commissioning plan. 5. Functional performance testing. 6. Documentation and training. 7. Commissioning report.	Exceptions: 1. Unconditioned warehouses of any size. 2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses. 3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1. 4. Open parking garages of any size, or open parking garage areas, of any size, within a structure. Note: For the purposes of this section, unconditioned shall mean a building, area or room which does not provide heating and or air conditioning. Informational Notes: 1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 does not certify individuals to conduct functional performance tests or to adjust and balance systems. 2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the California Energy Code.	Title 24 Energy Code 120.8 requirements will be met.	01 91 13
5.410.2.1	**Owner's or Owner representative's Project Requirements (OPR)**	CxA MECH PLUMB ELEC	ARCH	The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following: 1. Environmental and sustainability goals. 2. Building sustainable goals. 3. Indoor environmental quality requirements. 4. Project program, including facility functions and hours of operation, and need for after hours operation. 5. Equipment and systems expectations. 6. Building occupant and operation and maintenance (O&M) personnel expectations.		CxA: Owner's Project Requirement (OPR) document will be recommended by CxA for the County to approve soon.	01 91 13
5.410.2.2	**Basis of Design (BOD)**	CxA MECH PLUMB ELEC	ARCH	A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems: 1. Renewable energy systems. 2. Landscape irrigation systems. 3. Water reuse systems.		CxA: BOD was issued by Designer. CxA reviewed BOD. However the three systems listed are not defined in the BOD.	01 91 13
5.410.2.3	**Commissioning Plan**	CxA MECH PLUMB ELEC	ARCH	Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following: 1. General project information. 2. Commissioning goals. 3. Systems to be commissioned. Plans to test systems and components shall include: a. An explanation of the original design intent. b. Equipment and systems to be tested, including the extent of tests. c. Functions to be tested. d. Conditions under which the test shall be performed. e. Measurable criteria for acceptable performance. 4. Commissioning team information. 5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.		Cx Plan will be issued by CxA.	01 91 13
5.410.2.4	**Functional Performance Testing**	CxA MECH PLUMB ELEC	ARCH	Functional performance tests shall demonstrate the correct installation and operation of each component, system and system- to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.		Functional Test will be wintnessed by CxA for the systems defined in the Cx Plan. Other systems should be tested by others.	01 91 13
5.410.2.5	**Documentation and Training**	CxA MECH PLUMB ELEC	ARCH	A systems manual and systems operations training are required, including Occupational Safety and Health Act (OSHA) requirements in California Code of Regulations (CCR), Title 8, Section 5142, and other related regulations.		For commissioned systems, the training will be witnessed by CxA. Training Plan, Training Material and sign-in sheets should be submitted to CxA.	01 91 13
5.410.2.5.1	**Systems Manual**	CxA MECH PLUMB ELEC	ARCH	Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following: 1. Site information, including facility description, history and current requirements. 2. Site contact information. 3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log. 4. Major systems. 5. Site equipment inventory and maintenance notes. 6. A copy of verifications required by the enforcing agency or this code. 7. Other resources and documentation, if applicable.		Systems Manual will be submitted at the end of the Cx.	01 91 13

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5.410.2.5.2	**Systems Operations Training**	**CxA MECH PLUMB ELEC**	**ARCH**	A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following: 1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces). 2. Review and demonstration of servicing/preventive maintenance. 3. Review of the information in the systems manual. 4. Review of the record drawings on the system/equipment.		Providing training is out of Cx scope. Contractor need to provide training.	01 91 13
5.410.2.6	**Commissioning Report**	**CxA MECH PLUMB ELEC**	**ARCH**	A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.		Cx Report will be submitted at the end of the Cx.	01 91 13
5.410.4	**Testing and adjusting. New Buildings less than 10,000 square feet.**	**CxA MECH PLUMB ELEC**	**ARCH**	Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.		Since the project is over 10,000 sf, this requirement is not applicable.	01 91 13
5.410.4.1	**(Reserved)**	**CxA MECH PLUMB ELEC**	**ARCH**	Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4 and 140.9(b)3 for additional testing requirements of specific systems.		Already covered by item #81, which is Title 24 Code Section 5.410.2.	01 91 13
5.410.4.2	**Systems**	**CxA MECH PLUMB ELEC**	**ARCH**	Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include, as applicable to the project: 1. Renewable energy systems. 2. Landscape irrigation systems. 3. Water reuse systems.		The three listed sytems are not part of the Basis of Design.	01 91 13
5.410.4.3	**Procedures**	**CxA MECH PLUMB ELEC**	**ARCH**	Perform testing and adjusting procedures in accordance with manufacturer's specification and applicable standards on each system.		Performing TAB is a responsbility of the TAB contractor. CxA will review the TAB report. CxA will review the TAB report.	01 91 13
5.410.4.3.1	**HVAC Balancing**	**CxA MECH PLUMB ELEC**	**ARCH**	In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, balance the system in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.		Performing TAB is a responsbility of the TAB contractor. CxA will review the TAB report. CxA will review the TAB report.	01 91 13
5.410.4.4	**Reporting**	**CxA MECH PLUMB ELEC**	**ARCH**	After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.		TAB report is a responsbility of the TAB contractor. CxA will review the TAB report.	01 91 13
5.410.4.5	**Operations & maintenance (O&M) manual**	**CxA MECH PLUMB ELEC**	**ARCH**	Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.		Contractor should provide O&M Manual per specification 017923. CxA will compile the submitted O&M Manual into the Systems Manual.	01 91 13
5.410.4.5.1	**Inspections and Reports**	**CxA MECH PLUMB ELEC**	**ARCH**	Include a copy of all inspection verifications and reports required by the enforcing agency.		This code section is related with the O&M Manual. For the system commissioned, PreFunctional Check and Functional Test report will be included in the Systems Manual. However, inspection is a responsbility of the IOR, not CxA.	01 91 13
	Division 5.5 Environmental Quality						
5.503	**Fireplaces**	N/A	N/A				
5.503.1	**Fireplaces**	**ARCH**	**MECH**	Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed wood-stove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.		N/A	
5.503.1.1	**Woodstovers**	**ARCH**	**MECH**	Woodstove and pellet stoves shall comply with US EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.		N/A	
5.504	**Pollutant Control**	N/A	N/A				
5.504.1	**Temporary Ventilation**	**CONTRACTOR**	**MECH**	The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30 percent based on ASHRAE 52.1-1992. Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.			
5.504.3	**Covering of Duct Openings and Protection of Mechanical Equipment During Construction**	**CONTRACTOR**	**MECH**	At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.			
5.504.4	**Finish Material Pollutant Control**	**CONTRACTOR**	**ARCH**	Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.			
5.504.4.1	**Adhesives, Sealants and Caulks**	**CONTRACTOR**	**ARCH**	Adhesives, sealants and caulks used on the project shall meet the requirements of the following standards: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below. 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507.	See Tables 5.504.4.1 and 5.504.4.2 on sheet G-094.	Adhesive and sealant VOC limits provided.	See Specs 03 30 00, 06 41 00, 07 25 00, 07 84 00, 07 92 00, 08 81 00, 08 88 13, 09 24 00, 09 29 00, 09 30 00, 09 65 00, 09 68 13, 10 75 00, 11 98 15
5.504.4.3	**Paints and Coatings**	**CONTRACTOR**	**ARCH**	Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.	See Table 5.504.4.3 on sheet G-094.	Paints a and and coating VOC limits provided.	09 91 00
5.504.4.3.1	**Aerosol paints and coatings**	**CONTRACTOR**	**ARCH**	Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of California Code of Regulations, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.		No aerosol paints/coatings specified.	09 91 00

5.504.4.3.2	**Verification**	**CONTRACTOR**	**ARCH**	Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: 1. Manufacturer's product specification 2. Field verification of on-site product containers		VOC information is typically included on the product data required in Submittals.	
5.504.4.4	**Carpet Systems**	**CONTRACTOR**	**ARCH**	All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material		All specified carperts are Green Label certified.	09 68 13
5.504.4.4.1	**Carpet Cushion**	**CONTRACTOR**	**ARCH**	All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material		N/A. No cushion. Carpet backing is in 09 68 13 and complies.	
5.504.4.4.2	**Carpet Adhesive**	**CONTRACTOR**	**ARCH**	All carpet adhesive shall meet the requirements of Table 5.504.4.1.	See Table 5.504.4.1 on sheet G-094	Carpet adhesive VOC limits are provided.	09 68 13
5.504.4.5	**Composite Wood Products**	**CONTRACTOR**	**ARCH**	Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.) Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.	See Table 5.504.4.5 on sheet G-094	All composite wood products will comply.	See Specs 06 20 00, 06 41 00, 08 14 00, 09 54 26
5.504.4.5.3	**Documentation**	**CONTRACTOR**	**ARCH**	Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following: 1. Product certifications and specifications. 2. Chain of custody certifications. 3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.). 4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards. 5. Other methods acceptable to the enforcing agency.		Documentation will be provided by the contractor.	
5.504.4.6	**Resilient Flooring Systems**	**CONTRACTOR**	**ARCH**	Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material		Resilient flooring will comply.	09 65 00
5.504.4.6.1	**Verification of Compliance**	**CONTRACTOR**	**ARCH**	Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.		This information is typically included on the product data required in Submittal.	
5.504.4.7	**Thermal Insulation**	**CONTRACTOR**	**ARCH**	Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material		Thermal Insulation will comply.	See Specs 04 22 00, 07 21 00, 07 54 23,
5.504.4.7.1	**Verification of compliance**	**CONTRACTOR**	**ARCH**	Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.		This information is typically included on the product data required in Submittal.	
5.504.4.8	**Acoustical ceilings and wall panels**	**CONTRACTOR**	**ARCH**	Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specification 01350). See California Department of Public Health's website for certification programs and testing labs. https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material		Acoustical ceilings and wall panels will comply.	See Specs 09 51 13, 09 51 23, 09 84 13
5.504.4.8.1	**Verification of compliance**	**CONTRACTOR**	**ARCH**	Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.		This information is typically included on the product data required in Submittal.	
5.504.5.3	**Filters**	**MECH**		In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.	Exception: Existing mechanical equipment.	MERV 13 filters are provided all mechanical equipment with outside air inlet	Sheet M-002
5.504.5.3.1	**Labeling**	**CONTRACTOR**	**MECH**	Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.			Specification section 23 80 00 - 2.18
5.504.7	**Environmental Tobacco Smoke (ETS) Control**	**ARCH**		Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.		Compliant signage will be located at Publid Entry and Staff Patio (outdoor area adjacent to staff break room). No other areas may be used for smoking on this site.	10 14 00
5.505	**Indoor Moisture Control**	N/A	N/A				
5.505.1	**Indoor Moisture Control**	**MECH**	**ARCH**	Buildings shall meet or exceed the provisions of CBC, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.		Ventilation air is provided to meet Title 24 minimum requirements (15 CFM/person, 0.15 CFM/sqft) or to offset minimum exhaust rates for spaces identified by CMC Table 403.7	
5.506	**Indoor Air Quality**	N/A	N/A				
5.506.1	**Outside Air Delivery**	**MECH**		For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the California Energy Code, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.		Ventilation air is provided to meet Title 24 minimum requirements (15 CFM/person, 0.15 CFM/sqft) or to offset minimum exhaust rates for spaces identified by CMC Table 403.7	
5.506.2	**Carbon Dioxide (CO2) Monitoring**	**MECH**		For buildings or additions equipped with demand control ventilation, CO2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120.1(c)(4).		N/A	

Draft

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
CALGREEN WORKSHEET

SHEET
G-093

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5.506.3	**Carbon Dioxide (CO2) Monitoring in classrooms**	**MECH**		Each public K-12 school classroom, as listed in Table 120.1-A of the California Energy Code, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:	1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from doors and operable windows. 2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel. 3. A monitor shall provide notification through a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100 ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100 ppm. 4. The monitor or sensor shall measure carbon dioxide levels at minimum 15-minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration. 5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400 ppm to 2000 ppm or greater. 6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75 ppm at 1,000 ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.	N/A	
5.507	**Environmentasl Comfort**	N/A	N/A				
5.507.4	**Acoustical Control**	**ARCH**		Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.	Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings. Exception: For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.	Assemblies and componets are ASTM E90 and ASTM E413 compliant. Building is insulated CMU construction with high thermal and STC value. Refer to drawings for wall construction type.	A-311 to A-315, A-531
5.507.4.1	**Exterior Noise Transmission, Prescriptive Method**	**ARCH**		Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:	1. Within the 65 CNEL noise contour of an airport. Exceptions: 1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan. 2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element. 2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.	Exterior wall and roof assemblies, exterior windows will meet minimum STC requirements of this section.	N/A
5.507.4.1.1	**Noise Exposure Where Noise Contours Are Not Readily Available**	**ARCH**		Buildings exposed to a noise level of 65 dB Leq-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).		N/A	
5.507.4.2	**Performance Method**	**ARCH**		For buildings located as defined in Sectiosn 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.		N/A	
5.507.4.2.1	**Site Features**	**ARCH**		Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.		N/A	
5.507.4.2.2	**Documentation of Compliance**	**ARCH**		An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.		N/A	
5.507.4.3	**Interior Sound Transmission**	**ARCH**		Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.	Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: http://www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.	Public spaces are separated from non-public spaces by full height fully grouted 8" CMU wall which has STC 50 minimum.	
5.508	**Outdoor Air Quality**	N/A	N/A				
5.508.1	**Ozone Depletion and Greenhouse Gas Reductions**	**MECH**		Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.		N/A	
5.508.1.1	**Chlorofluorocarbons (CFCs)**	**MECH**		Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.		HVAC equipment used R-410a refrigerant (classified as an HFC, not CFC)	Sheet M-002
5.508.1.2	**Halons**	**MECH**		Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.		HVAC equipment used R-410a refrigerant (classified as an HFC, not a Halon).	Sheet M-002
5.508.2	**Supermarket refrigerant leak reduction**	**MECH**		New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.		N/A	
	Chapter 7.0 Installer and Special Inspector Qualifications						
702	**Qualifications**	N/A	N/A				
702.1	**Installer Training**	**CONTRACTOR**	**MECH**	HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems.	Examples of acceptable HVAC training and certification programs include but are not limited to the following: 1. State certified apprenticeship programs. 2. Public utility training programs. 3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations. 4. Programs sponsored by manufacturing organizations. 5. Other programs acceptable to the enforcing agency.		Specification section 23 00 50 - 3.19
702.2	**Special Inspection**	**OWNER**		[HCD] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector: 1. Certification by a national or regional green building program or standard publisher. 2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors and home energy auditors. 3. Successful completion of a third party apprentice training program in the appropriate trade. 4. Other programs acceptable to the enforcing agency. Notes: 1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code. 2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).	[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency. Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.	Owner will select and pay for special inspection services compliant with these regulations under a separate contract and that selection shall be subject to the approval of Architect.	
703	**Verification**	N/A	N/A				
703.1	**Documentation**	**ALL**	**ALL**	Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified in the application checklist.		Will comply	

TABLE 5.504.4.1
ADHESIVE VOC LIMIT[1,2]
Less Water and Less Exempt Compounds in Grams Per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT AND ASPHALT TILE ADHESIVES	50
DRYWALL AND PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVE NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP AND TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AND ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIFED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, HTTP://WWW.ARB.CA.GOV/DRDB/SC/CURHTML/R1168.PDF.

TABLE 5.504.4.2
SEALANT VOC LIMIT
Less Water and Less Exempt Compounds in Grams per...

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL NONPOROUS POROUS	 250 775
MODIFED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE) 2
0-9	0	0
10-25	4	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% OF TOTAL1	25% OF EV CAPABLE SPACES1

1. CALCULATION FOR SPACES SHALL BE ROUNDED UP TO THE NEAREST WHOLE NUMBER.

2. THE NUMBER OF REQUIRED EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE) IN COLUMN 3 COUNT TOWARD THE TOTAL NUMBER OF REQUIRED EV CAPABLE SPACES SHOWN IN COLUMN 2.

TABLE 5.504.4.3
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[1, 2, 3]
Grams of Voc per Liter of Coating, Less Water and Less Exempt Compounds

COATING CATEGORY	CURRENT LIMIT
FLAT COATINGS	50
NONFLAT COATINGS	100
NONFLAT HIGH-GLOSS COATINGS	150
SPECIALTY COATINGS	
ALUMINIUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS[1]	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, AND UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS CLEAR OPAQUE	 730 550
SPECIALTY PRIMERS, SEALERS, AND UNDERCOATERS	100
STAIN	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB AND TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER AND INCLUDING EXEMPT COMPOUNDS.

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEBRUARY 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

TABLE 5.504.4.5
FORMALDEHYDE LIMITS[1]
Maximum Formaldehyde Emissions in Parts per Million

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLEBOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD[2]	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THINK MEDIUM DESNITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCH (8MM).

TABLE 5.106.8 [N]
MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATING51,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING (B)					
LUMINAIRE GREATER THAN 2 MOUNTING HEIGHTS (MH) FROM PROPERTY...	N/A	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
LUMINAIRE BACK HEMISPHERE IS 1 - 2 MH FROM PROPERTY LINE	N/A	B2	B3	B4	B4
LUMINAIRE BACK HEMISPHERE IS 0.5 - 1 MH FROM PROPERTY LINE	N/A	B1	B2	B3	B3
LUMINAIRE BACK HEMISPHERE IS LESS THAN 0.5 MH FROM PROPERTY LINE	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
FOR AREA LIGHTING3	N/A	U0	U0	U0	U0
FOR ALL OTHER OUTDOOR LIGHTING, INCLUDEING DECORATIVE LUMINAIRES	N/A	U1	U2	U3	U4
MAXIMUM ALLOWABLE GLARE RATING (G)					
LUMINAIRE GREATER THAN 2 MH FROM PROPERTY LINE	N/A	G1	G2	G3	G4
LUMINAIRE FRONT HEMISPHERE IS 1 - 2 MH FROM PROPERTY LINE	N/A	G0	G1	G1	G2
LUMINAIRE FRONT HEMISPHERE IS 0.5 - 1 MH FROM PROPERTY LINE	N/A	G0	G0	G1	G1
LUMINAIRE FRONT HEMISPHERE IS LESS THAN 0.5 MH FROM PROPERTY LINE	N/A	G0	G0	G0	G1

1. IESNA LIGHTING ZONES 0 ARE NOT APPLICABLE; REFER TO LIGHTING ZONES AS DEFINED IN THE CALIFORNIA ENERGY CODE AND CHAPTER 10 OF THE CALIFORNIA ADMINISTRATIVE CODE.

2. FOR PROPERTY LINES THAT ABUT PUBLIC WALKWAYS, BIKEWAYS, PLAZAS AND PARKING LOTS, THE PROPERTY LINE MAY BE CONSIDERED TO BE 5 FEET BEYOND THE ACTUAL PROPERTY LINE FOR PURPOSE OF DETERMINING COMPLIANCE WITH THIS SECTION. FOR PROPERTY LINES THAT ABUT PUBLIC ROADWAYS AND PUBLIC TRANSIT CORRIDORS, THE PROPERTY LINE MAY BE CONSIDERED TO BE THE CENTERLINE OF THE PUBLIC ROADWAY OR PUBLIC TRANSIT CORRIDOR FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH THIS SECTION.

3. GENERAL LIGHTING LUMINAIRES IN AREAS SUCH AS OUTDOOR PARKING, SALES OR STORAGE LOTS SHALL MEET THESE REDUCED RATINGS. DECORATIVE LUMINAIRES LOCATED IN THESE AREAS SHALL MEET U-VALUE LIMITS FOR "ALL OTHER OUTDOOR LIGHTING."

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STATE OF CALIFORNIA
Nonresidential Building Commissioning
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CERTIFICATE OF COMPLIANCE — NRCC-CFX-E

This document is used to demonstrate compliance with mandatory commissioning requirements in for nonresidential buildings and hotel/motel or high rise residential buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.

Project Name: MONO COUNTY NEW JAIL — Report Page:
Project Address: 221 TWIN LAKES RD, BRIDGEPORT, CA 95317 — Date Prepared: 2023-06-07

A. GENERAL INFORMATION

01	Project Location (city)	Bridgeport	04	Building Size (ft²)	21,815
02	Occupancy Type	Nonresidential	05	Nonresidential Conditioned Floor Area (ft²)	10,000 - 49,999 ft²
03	Project Type	Newly constructed	06	HVAC System Type	All other HVAC system types (indicates "complex")

B. PROJECT SCOPE

Table Instructions: Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per . Table B is not editable by the user.

Commission Requirements per

01	Table F: Design Review Kickoff	and	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)		The owner's project requirements establish the owner's goals, requirements, and expections for everything related to energy consumption and operation. This should be completed during schematic design.
03	Table H: Basis of Design (BOD)		This requirement does not apply.
04	Table I: Design Review	and	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning process. For projects with ≥ 10,000 ft² of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan		This requirement does not apply.
06	Table K: Functional Performance Testing		This requirement does not apply.
07	Table L: Documentation and Training		This requirement does not apply.
08	Table M: Commissioning Report		This requirement does not apply.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance.

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Project Name: MONO COUNTY NEW JAIL — Report Page:
Project Address: 221 TWIN LAKES RD, BRIDGEPORT, CA 95317 — Date Prepared: 2023-06-07

C. COMPLIANCE RESULTS

Table Instructions: Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per . This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01	02	03	04	05	06	07	08	09
Design Review Kickoff	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	Compliance Results
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	DOES NOT COMPLY
10	Design Reviewer(s) for the project include:		Horace Adams, Milutin Backovich, Sean Mann, Ahmad Elkot, Chris Ripple					DOES NOT COMPLY

D. EXCEPTIONAL CONDITIONS

This table is auto filled with uneditable comments because of selections made or data entered in tables throughout the form.

Table G. indicates that the Owner's Project Requirements (OPR) document is attached to the permit application.
Table H. indicates that the Basis of Design (BOD) document is attached to the permit application.
Table I. indicates that a Design Review document is attached to the permit application.
Table J. indicates that a draft commissioning plan is attached to the permit application.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. DESIGN REVIEW KICKOFF MEETING

Table Instructions: Complete this table to indicate that the design reviewer meets the qualification requirements per Title 24, Part 1 Section and to demonstrate compliance with design review kickoff requirements per . This meeting should occur during the Schematic Design phase of the project.

Design Review Kickoff Meeting Details

01	Date of Design Review Kickoff Meeting	Mar 24, 2021
02	Meeting Attendees: (one person may play multiple roles)	

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance.

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Table Continued

☑ Owner/ Facility Manager:	Paul Rosen, Public Works Director	☑ Design Reviewer(s):	Kitchell CEM		
☑ Project Manager:	Mike Davey, Lionakis	☑ Design Architect/ Engineer(s):	Lionakis		
☑ Contractor:	N/A	☑ Certified Acceptance Test Tech(s):	N/A		
☑ Commissioning Provider:	Kitchell CEM	☑ Energy/ T24 Part 6 Consultant:	Capital Engineering		

Design Reviewer Qualifications per Title 24, Part 1 Section

	The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.	Do the Design Reviewer(s) meet these qualifications?
04	The design reviewer(s) for this project will be:	Horace Adams, Milutin Backovich, Sean Mann, Ahmad Elkot, Chris Ripple

Preliminary Construction Schedule

		Start Date	Completion Date
05	Schematic Design	2022-03-28	2022-04-28
06	Design Development	2022-05-28	2022-06-30
07	Construction Documents	2022-08-31	2023-04-29
08	Construction	2024-04-29	2025-10-30
09	Building Turnover	2025-09-25	2025-12-05

G. OWNER'S PROJECT REQUIREMENTS (OPR)

Table Instructions: Complete the table below if not attaching an OPR document, or attach an OPR document to your permit application to demonstrate compliance with . If a specific field is not applicable to the project scope, put "N/A". Per , the OPR is to be completed before design begins. This may be done at the Design Review Kickoff Meeting (see Table F.).

		YES	NO
01	Attaching Completed Owner's Project Requirements Document?	◉	○
02	Owner's Project Requirements Document Authors and Roles	Paul	

H. BASIS OF DESIGN (BOD)

Table Instructions: Complete the table below if not attaching a BOD document, or attach a BOD document to demonstrate compliance with . If a specific field is not applicable to the project scope, put "N/A". Per , the BOD should be completed and updated during the design phase.

		YES	NO
01	Attaching Completed Basis of Design Document?	◉	○

Table Continued

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Table Continued

02	Basis of Design Document Authors and Roles	Lionakis (Architect), KLA (Landscape), Capital Engineering (Mechanical, Plumbing, Fire

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

Table Instructions: The design reviewer(s) may fill out the table below or attach a design review document that lists the items checked by the design reviewer(s) during the construction document review. For buildings with ≥ 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.

		YES	NO
01	Attaching Completed Design Review Documentation?	◉	○

J. COMMISSIONING PLAN

Table Instructions: Complete the table below if not attaching a Commissioning Plan document, or attach a Commissioning Plan document to demonstrate compliance with . Per , the Commissioning Plan is to be started during the design phase and a completed draft must be submitted with permit application.

		YES	NO
01	Attaching Completed Commissioning Plan?	◉	○
02	Commissioning Plan Authors and Roles	Seung Uk Lee, Commissioning Agent	

K. FUNCTIONAL PERFORMANCE TESTING

Table Instructions: Complete the table below to demonstrate compliance with functional performance testing requirements per .

By checking this box, the responsible party[1] certifies that functional performance testing will be executed to demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the acceptance test requirements in , and . The functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.	01 ☑

The following acceptance tests have been identified as applicable to the project scope:[2]

02	03	04	05
System/ Equipment to be Tested	Brief description of functional performance test	Applicable Reference Appendix	Certified Acceptance Test Technician Required?
Rooftop DX units	Review the FDD function with artificial fault	NA7.5.11 FDD for Package DX	Yes

The acceptance tests required by Title 24, Part 6 outline the minimum functional performance testing scope to be conducted for compliance. However, the commissioning scope may include additional functional performance tests on systems or equipment not having acceptance tests required by Title 24, Part 6.

The following additional functional performance tests have been requested by the owner or owner's representative:

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Table Continued

06	07
System/ Equipment to be Tested	Brief description of functional performance test
Rooftop DX units	Review the Rooftop DX unit operation trends and analyse the economizer functional acceptance.

Add Row — Remove Last

[1] *FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.*
[2] *Required acceptance tests can be determined by reviewing the "Certificates of Acceptance" table on each Certificate of Compliance submitted for permit application.*

L. DOCUMENTATION AND TRAINING

Table Instructions: Complete the table below to demonstrate compliance with documentation and training requirements per .

By checking this box, the responsible party[1] certifies that a systems manual will be provided to the building owner or representative per .	01 ☑
By checking this box, the responsible party[1] certifies that a training of the appropriate maintenance staff for each equipment and system will be completed and documented in the commissioning report per . Training requirements should be included in the contract document in the specifications.	02 ☑

[1] *FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.*

M. COMMISSIONING REPORT

Table Instructions: Complete the table below to demonstrate compliance with commissioning report requirements per .

By checking this box, the responsible party[1] certifies that a complete report of commissioning process' activities undertaken through the design, construction and reporting recommendations for post-construction phases of the building project shall be completed and provided to the owner or owner's representative.	01 ☑

[1] *FOOTNOTE: See the signature block on the last page of this compliance document for the responsible party.*

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no Certificates of Installation applicable to commissioning requirements.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Although there are no "CXR" Certificates of Acceptance required to document commissioning requirements, Certificates of Acceptance may be used to supplement functional performance testing required by .

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name:	Seung Uk Lee	Documentation Author Signature:	Seung Uk Lee
Company:	Kitchell CEM	Signature Date:	06/07/23
Address:	2450 Venture Oaks Way, Suite 500	CEA/ HERS Certification Identification (if applicable):	
City/State/Zip:	Sacramento/ CA/ 95833	Phone:	916-648-9790

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with the building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

Add Responsible Person — Remove Last

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3/16" = 1'-0"

2 NORTH WEST - PERSPECTIVE
3/16" = 1'-0"

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3/16" = 1'-0"

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LICENSED ARCHITECT
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C 27266
REN. 06-30-25
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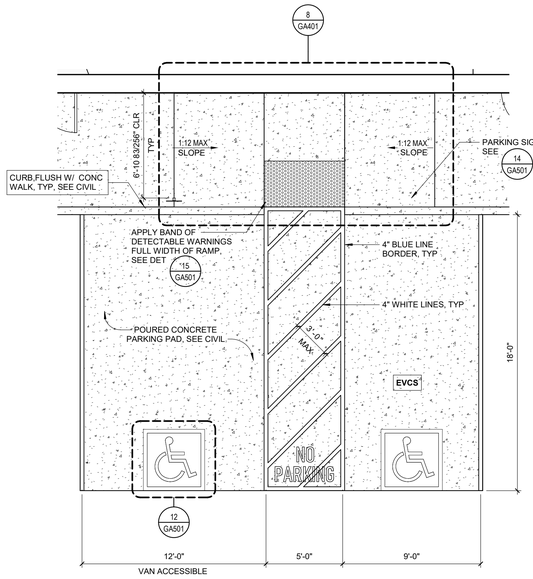
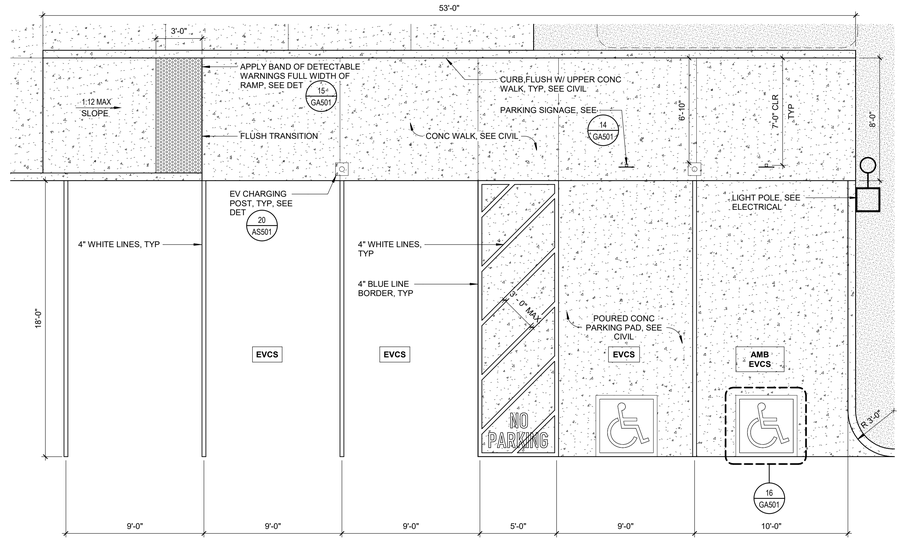


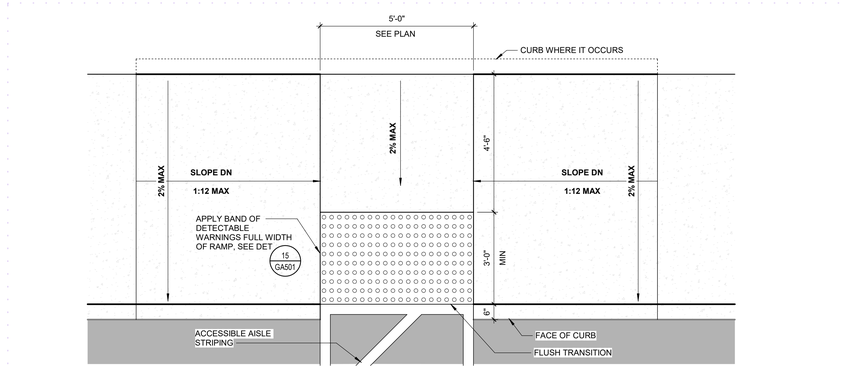
NOTE:
-1.5% (2% MAX) SLOPE IN ANY DIRECTION FOR ACCESSIBLE STALLS AND ACCESS AISLES

-LINES AND LETTERS TO BE WHITE OR ALT CONTRASTING COLOR TO PAVEMENT. BLUE IS PROHIBITED.

6 ACCESSIBLE EV CAPABLE - STAFF PARKING
SCALE 1/4" = 1'-0"

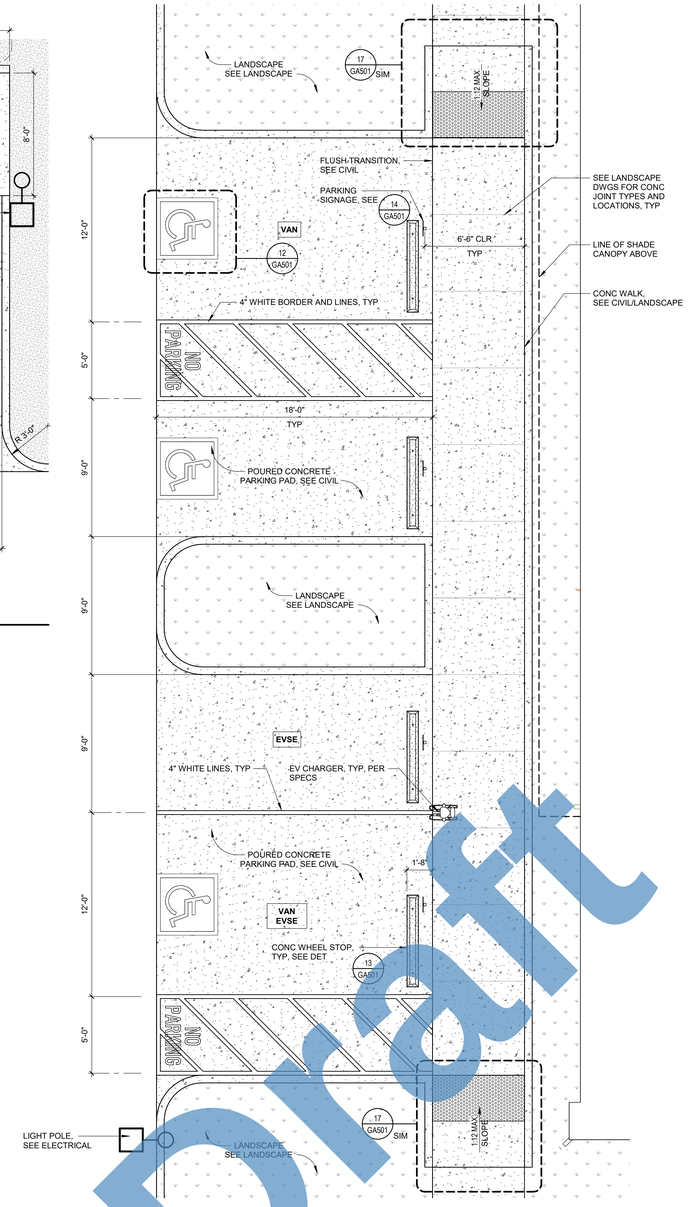


7 ACCESSIBLE EV CAPABLE - STAFFPARKING
SCALE 1/4" = 1'-0"



8 ACCESSIBLE CURB RAMP PARALLEL
1/2" = 1'-0"

0500_0100_ACC CURB RAMP PARA_01



1 ACCESSIBLE EV CAPABLE - PUBLIC PARKING
SCALE 1/4" = 1'-0"

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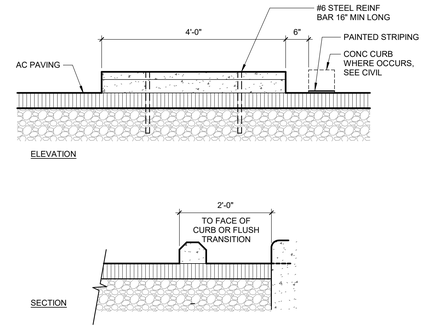
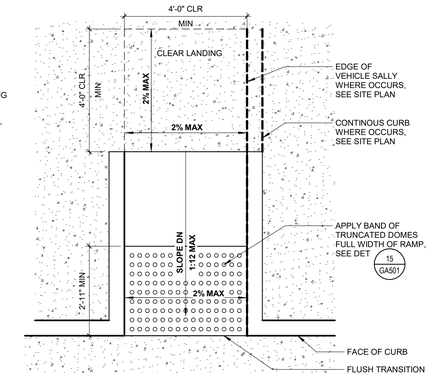


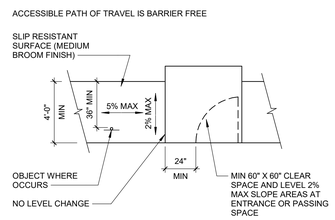
13 CONCRETE WHEEL STOP

3/4" = 1'-0" 0500_3213_CONC WHEELSTOP_01



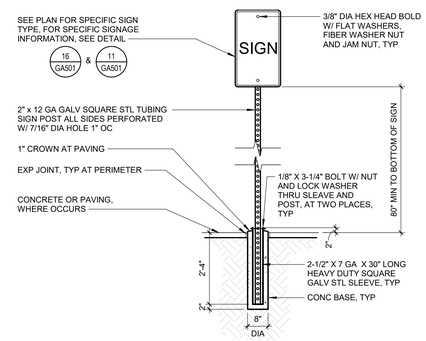
17 ACCESSIBLE CURB RAMP PERPENDICULAR

1/2" = 1'-0" 0500_0100_ACC CURB RAMP PERP_01



10 ACCESSIBLE ROUTE WALK

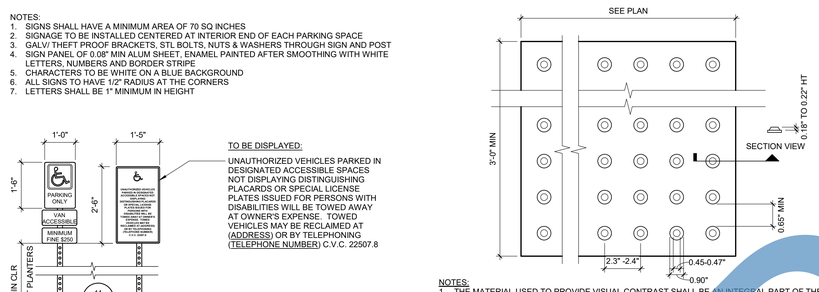
1/4" = 1'-0" 0500_0100_ACC ROUTE WALK_01



14 TYP SIGN POLE & BASE FOR EXT MOUNTED SIGNS

1/2" = 1'-0" 0500_0100_TYP SIGN BASE_01

NOTES:
1. SIGNS SHALL HAVE A MINIMUM AREA OF 70 SQ INCHES
2. SIGNAGE TO BE INSTALLED CENTERED AT INTERIOR END OF EACH PARKING SPACE
3. GALV/ THEFT PROOF BRACKETS, STL BOLTS, NUTS & WASHERS THROUGH SIGN AND POST
4. SIGN PANEL OF 0.08" MIN ALUM SHEET, ENAMEL PAINTED AFTER SMOOTHING WITH WHITE LETTERS, NUMBERS AND BORDER STRIPE
5. CHARACTERS TO BE WHITE ON A BLUE BACKGROUND
6. ALL SIGNS TO HAVE 1/2" RADIUS AT THE CORNERS
7. LETTERS SHALL BE 1" MINIMUM IN HEIGHT



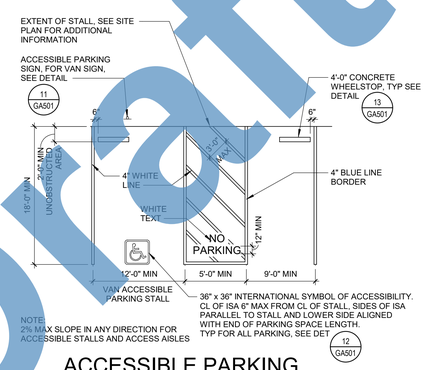
11 ACCESSIBLE PARKING SIGNAGE

1/2" = 1'-0" 0500_0100_ACC PARKING SIGNAGE_01

NOTES:
1. THE MATERIAL USED TO PROVIDE VISUAL CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE.
2. DETECTABLE WARNING SURFACES SHALL BE YELLOW AND APPROXIMATE FS 33538 OF FEDERAL STANDARD 595C.
3. DETECTABLE WARNING SURFACES SHALL PROVIDE A 70% MIN VISUAL CONTRAST WITH ADJACENT WALKING SURFACES. IF VISUAL CONTRAST IS NOT AVAILABLE SEE 11B-705.1.3.2
4. WHERE INSTALLED IN A RADIAL PATTERN, DOMES SHALL HAVE A CENTER TO CENTER SPACING OF 1.6-2.4 INCHES.
5. DETECTABLE WARNING SURFACES MUST DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

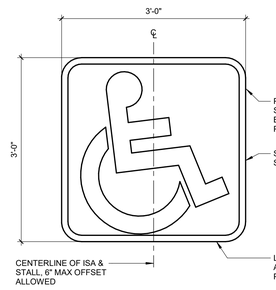
15 DETECTABLE WARNINGS

3" = 1'-0" 0500_0100_DETECTABLE WARNING_01



19 ACCESSIBLE PARKING PERPENDICULAR

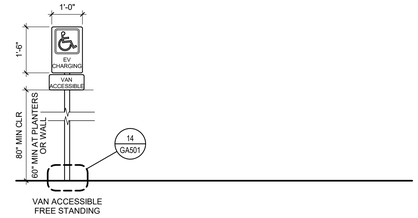
1/8" = 1'-0" 0500_0100_ACC PARKING PERP_01



12 ACCESSIBLE PARKING SYMBOL

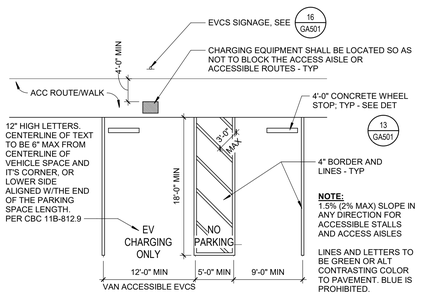
1" = 1'-0" 0500_0100_ACC PARKING SYMBOL_01

NOTES:
1. SIGNS SHALL HAVE A MINIMUM AREA OF 70 SQ INCHES
2. SIGNAGE TO BE INSTALLED CENTERED AT INTERIOR END OF EACH PARKING SPACE
3. GALV/ THEFT PROOF BRACKETS, STL BOLTS, NUTS & WASHERS THROUGH SIGN AND POST
4. SIGN PANEL OF 0.08" MIN ALUM SHEET, ENAMEL PAINTED AFTER SMOOTHING WITH WHITE LETTERS, NUMBERS AND BORDER STRIPE
5. CHARACTERS TO BE WHITE ON A BLUE BACKGROUND OR COLOR APPROVED BY THE AHJ
6. ALL SIGNS TO HAVE 1/2" RADIUS AT THE CORNERS
7. LETTERS SHALL BE 1" MINIMUM IN HEIGHT



16 ACCESSIBLE EVCS PARKING SIGNAGE

1/2" = 1'-0" 0500_0100_ACC ECVS PARKING SIGNAGE_01



20 ACCESSIBLE ELECTRIC VEHICLE CHARGING PERPENDICULAR

1/8" = 1'-0" 0500_0100_ACC EV PARKING_01

Draft

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

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BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
DETAILS - SITE - ACCESSIBILITY

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GA501

V1

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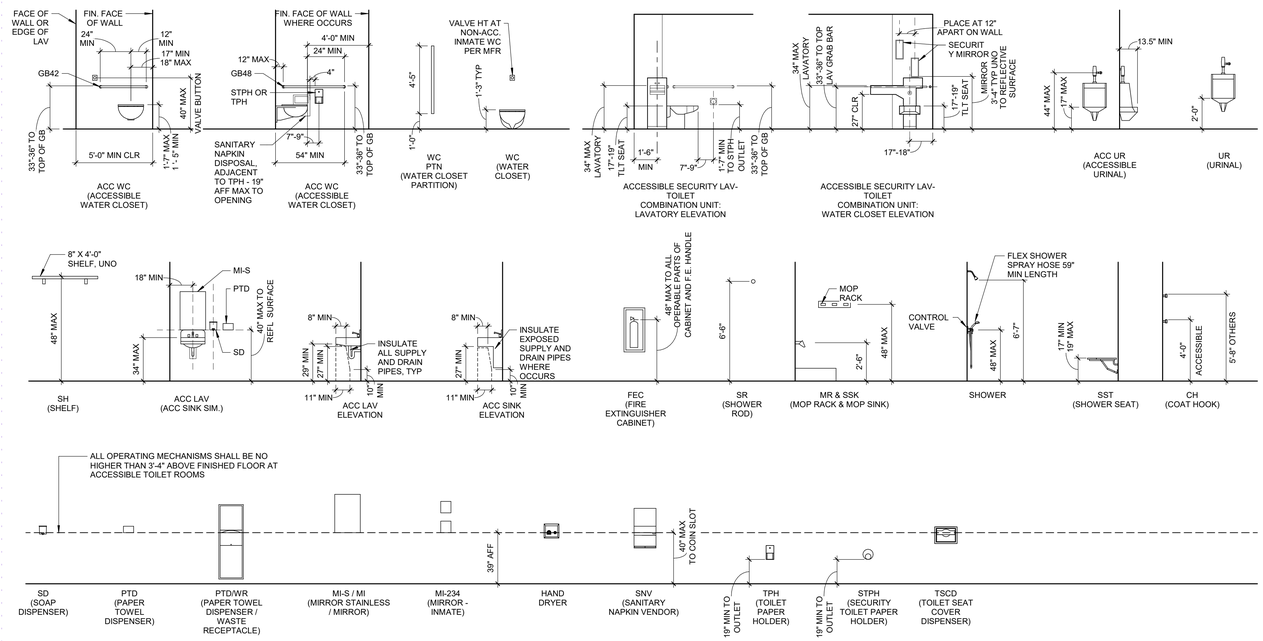
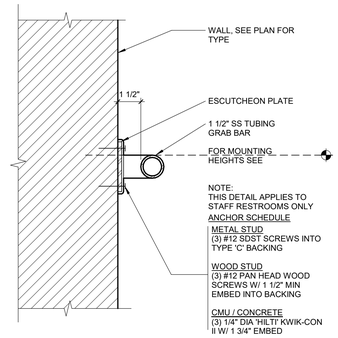
9/8/2023 8:41:19 PM



NOTE:
1. AT ACCESSIBLE TOILET STALLS, OPENING FOR PARTITION DOOR SHALL BE MIN. 34" CLEAR, DOOR SHALL BE SELF CLOSING, AND AN ACCESSIBLE DOOR PULL SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.
2. PROVIDE BACKING FOR ALL WALL HUNG ACCESSORIES. SEE TYPICAL BACKING DETAIL
3. BACKING LOCATIONS SHALL BE COORDINATED W/ ANCHORAGE LOCATIONS, TYP
4. SEE INTERIOR ELEVATIONS FOR DEFINITIONS OF ACCESSORY ABBREVIATIONS.
5. WHERE WALL MOUNTED EQUIPMENT IS LOCATED ABOVE COUNTER/WORK SURFACE, HEIGHT TO OPERABLE PART SHALL BE 46" MAX. FOR PARALLEL APPROACH.
6. WHERE WALL MOUNTED EQUIPMENT IS LOCATED ABOVE COUNTER/WORK SURFACE, HEIGHT TO OPERABLE PART FOR FORWARD APPROACH IS 48" MAX. WHEN COUNTER/WORK SURFACE IS A MAXIMUM OF 20" DEEP. WHEN REACH DEPTH IS BETWEEN 20" AND THE MAXIMUM ALLOWABLE OF 25", THE HEIGHT TO OPERABLE PARTS SHALL BE 44" MAX.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THAT MAXIMUM DIMENSIONS ARE NOT TO BE EXCEEDED AND MINIMUM CLEARANCES ARE NOT LESS THAN THE MINIMUM DIMENSIONS LISTED.

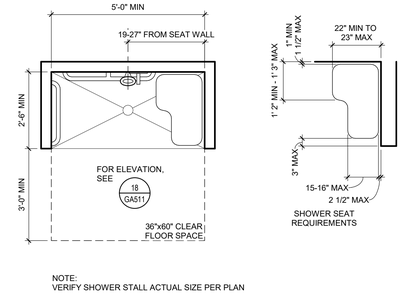
2 INTERIOR - ACCESSORIES - MOUNTING HEIGHTS & LOCATIONS

SCALE: NTS — 0500_0100_ACC MOUNTING HEIGHT ACCESSORIES_01 — 171108



13 GRAB BARS

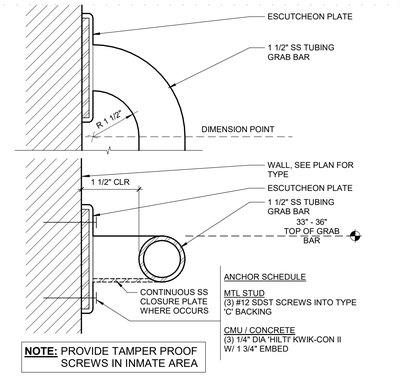
3" = 1'-0" — 0500_0100_ACC GRAB BAR MOUNTING_01



NOTE:
VERIFY SHOWER STALL ACTUAL SIZE PER PLAN

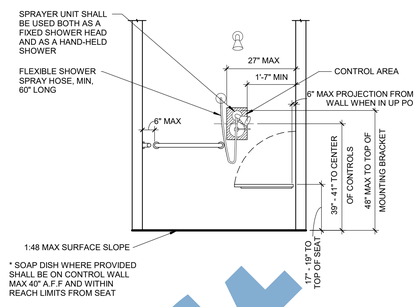
17 SHOWER STALL - PLAN

1/2" = 1'-0" — 0500_0100_ACC SHOWER SEAT_01



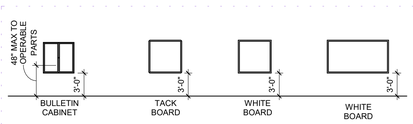
14 GRAB BAR

6" = 1'-0" — AE_G_0520_001 — 190307_Q2



18 SHOWER STALL - ELEVATION

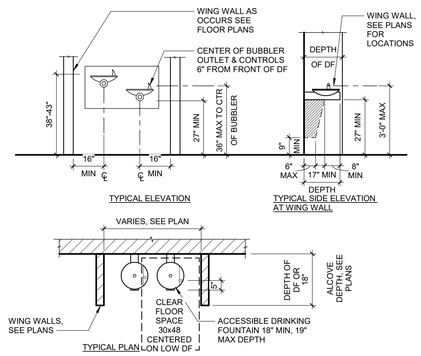
1/2" = 1'-0" — 0500_0100_ACC SHOWER ELEVATION_01



NOTES:
1. WHERE WALL MOUNTED EQUIPMENT IS LOCATED ABOVE COUNTER / WORK SURFACE, HEIGHT TO OPERABLE PART SHALL BE 46" MAX FOR PARALLEL APPROACH
2. WHERE WALL MOUNTED EQUIPMENT IS LOCATED ABOVE COUNTER / WORK SURFACE, HEIGHT TO OPERABLE PART FOR FORWARD APPROACH IS 48" MAX. WHEN COUNTER/ WORKSURFACE IS A MAXIMUM OF 20" DEEP. WHEN REACH DEPTH IS BETWEEN 20" AND THE MAXIMUM ALLOWABLE OF 25", THE HEIGHT TO OPERABLE PARTS SHALL BE 44" MAX.
3. REFER TO 16/A-533 FOR BACKING TYPES
4. DIMENSIONS ARE TO TOP OR BOTTOM OF EQUIPMENT UNLESS NOTED OTHERWISE.
5. REFER TO EQUIPMENT CUT SHEETS FOR ANCHORAGE TYPES
6. BACKING LOCATIONS SHALL BE COORDINATED W/ ANCHORAGE LOCATIONS

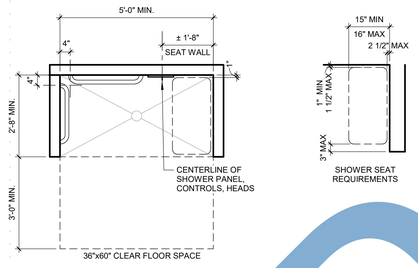
7 INTERIOR - EQUIPMENT - MOUNTING HTS

1/8" = 1'-0" — Q1



11 HI-LO DRINKING FOUNTAIN - WING WALLS

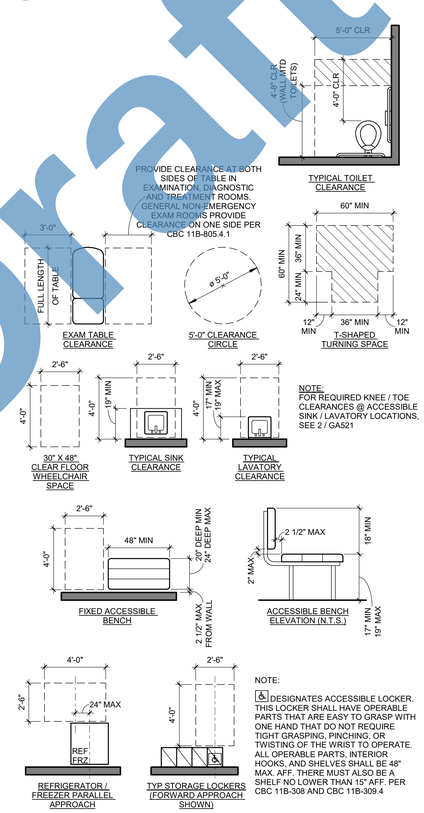
3/8" = 1'-0" — 0500_0100_DF WING WALLS_01



NOTE:
1. OWNER TO PROVIDE ACCESSIBLE SHOWER SEATS AT ALL ACCESSIBLE INMATE SHOWERS.
2. VERIFY SHOWER STALL SIZE PER PLAN.
3. MAX SLOPE OF ACCESSIBLE SHOWER FLOOR NOT TO EXCEED 1.5% IN ALL DIRECTIONS.

15 SHOWER STALL - REAR CHASE

1/2" = 1'-0" — AE_G_0520_006 — 150901_Q2

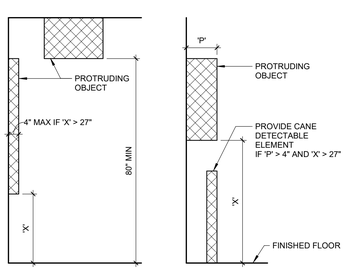


NOTE:
FOR REQUIRED KNEE / TOE CLEARANCES @ ACCESSIBLE SINK / LAVATORY LOCATIONS, SEE 2 / GA521

NOTE:
DESIGNATES ACCESSIBLE LOCKER. THIS LOCKER SHALL HAVE OPERABLE PARTS THAT ARE EASY TO GRASP WITH ONE HAND THAT DO NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. ALL OPERABLE PARTS, INTERIOR HOOKS, AND SHELVES SHALL BE 48" MAX. AFF. THERE MUST ALSO BE A SHELF NO LOWER THAN 15" AFF. PER CBC 11B-308 AND CBC 11B-309.4

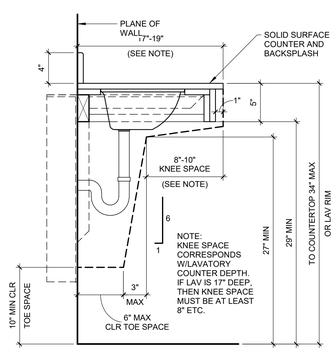
20 ACCESSIBILITY CLEARANCES

1/4" = 1'-0" — 0500_0100_ACC CLEARANCES_01 — 171108



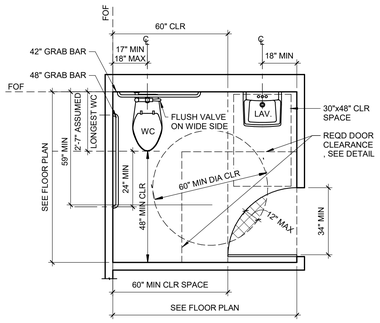
4 PROTRUDING OBJECTS

1/2" = 1'-0" — 0500_0100_PROTRUDING OBJECTS_01



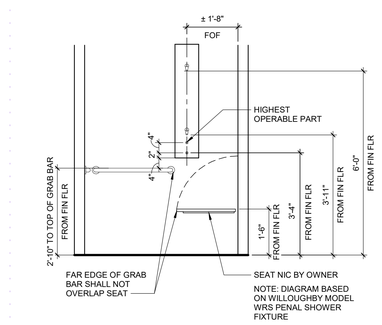
8 CLEARANCE AT LAVATORY COUNTER

1 1/2" = 1'-0" — 0500_0100_CLEARANCE AT DEEP LAVATORY_01



12 ACCESSIBLE TOILET ROOM CLEARANCES - SINGLE ACCOMMODATION

3/8" = 1'-0" — 0500_0100_ACC RR CLEARANCES SINGLE_01



16 SHOWER STALL - INMATE

1/2" = 1'-0" — AE_G_0520_005 — 150901_Q2

Draft

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GOVMOTUS No:22-N-3854-CP-DR

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CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
ACCESSIBILITY REQUIREMENTS

SHEET
GA511
V1

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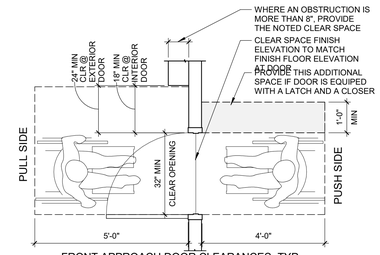
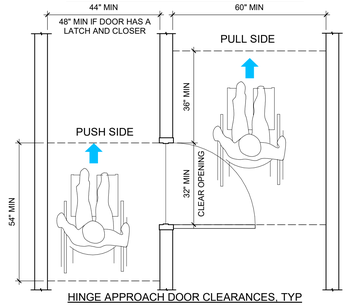
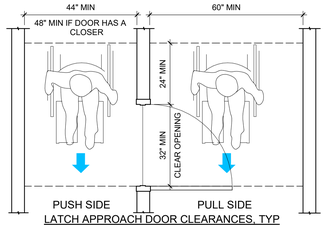


FRONT APPROACH DOOR CLEARANCES, TYP



HINGE APPROACH DOOR CLEARANCES, TYP

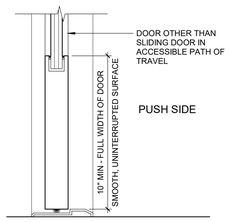


LATCH APPROACH DOOR CLEARANCES, TYP

NOTE: AREA MUST NOT EXCEEED A SLOPE OF 2% IN ANY DIRECTION

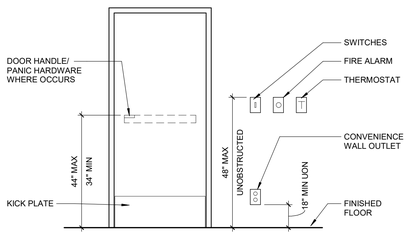
ACCESSIBLE DOOR CLEARANCES

0500_0100_ACC DOOR CLEARANCES_01



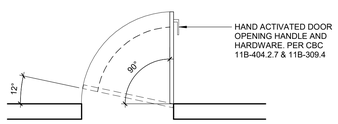
ACCESSIBLE DOOR SURFACE REQUIREMENT

0500_0100_ACC DOOR SURFACE REQ_01



ACCESSIBLE MOUNTING HEIGHT REQUIREMENTS

0500_0100_ACC MOUNTING HEIGHT REQ DOOR_01

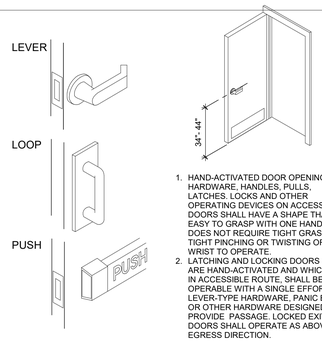


NOTE

1. DOOR CLOSERS, IF PRESENT, MUST BE SET SO THAT IT TAKES DOOR AT LEAST 5 SECONDS TO CLOSE FROM AN OPEN POSITION OF 90 DEGREES TO 12 DEGREES FROM THE LATCH PER 11B-404.2.8.1.
2. FORCE REQUIRED TO OPERATE DOOR SHALL BE 5 LBS MAXIMUM PRESSURE AT INTERIOR AND EXTERIOR DOORS AND 15 LBS MAXIMUM TO OPERATE AT FIRE DOORS WHERE ALLOWED BY THE AHJ PER CBC 11B-404.2.9.

ACCESSIBLE DOOR CLOSER REQUIREMENTS

0500_0100_ACC DOOR CLOSER REQ_01



1. HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
2. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN ACCESSIBLE ROUTE, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.

ACCESSIBLE DOOR HARDWARE REQUIREMENTS

0500_0100_ACC DOOR HARDWARE REQ_01

ENTRANCES AND DOORS:

1. IN NEW CONSTRUCTION, ALL PRIMARY ENTRANCES AND EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDINGS AND FACILITIES SHALL BE ACCESSIBLE TO THE DISABLED.
2. IN EXISTING BUILDINGS WHERE NOT ALL ENTRANCES ARE ACCESSIBLE, ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.
3. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 36 INCHES IN WIDTH, AND NOT LESS THAN 80 INCHES IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE MOUNTED SO THAT THE CLEAR WIDTH THE DOORWAY IS NOT LESS THAN 32 INCHES.
4. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE PART OF AN ACCESSIBLE ROUTE OR SPACE, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
5. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FLOOR.
6. THE FLOOR OR LANDING LENGTH ON EACH SIDE OF AN ENTRANCE OR A PASSAGE DOOR SHALL BE LEVEL AND CLEAR AT LEAST 60 INCHES IN THE DIRECTION OF THE DOOR SWING AND AT LEAST 48 INCHES OPPOSITE THE DIRECTION OF THE DOOR SWING AS MEASURED AT RIGHT ANGLES TO THE FACE OF THE DOOR IN THE CLOSED POSITION. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE WHICH THE DOOR SWINGS SHALL EXTEND A MINIMUM OF 24 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR DOORS WITH LATCH SIDE APPROACH AND 36 INCHES FOR DOORS REQUIRING HINGE SIDE APPROACH.
7. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGES IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
8. THE BOTTOM 10 INCHES OF ALL DOORS (EXCEPT AUTOMATIC AND SLIDING) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION WHERE NARROW FRAME DOORS ARE USED. A 10 INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST.
9. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR OR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY NOT EXCEED 15 LBS.
10. EACH GRADE-LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE SIGN WITH THE WORD "EXIT". EACH EXIT DOOR THAT LEADS DIRECTLY TO GRADE-LEVEL EXTERIOR EXIT BY MEANS OF STAIRWAY OR RAMP IS IDENTIFIED BY A TACTILE SIGN THAT STATES "EXIT STAIR DOWN," "EXIT RAMP DOWN," "EXIT STAIR UP," OR "EXIT RAMP UP" AS APPROPRIATE. EACH EXIT DOOR THAT LEADS DIRECTLY TO GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR EXIT PASSAGEWAY IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE". EACH ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE". EACH DOOR THROUGH A HORIZONTAL EXIT IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "TO EXIT."

CLEAR FLOOR SPACE FOR WHEELCHAIRS

1. MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30 INCHES BY 48 INCHES. MINIMUM CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT, UNLESS RESTRICTED BY CODE. FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE PART OF THE KNEE SPACE REQUIRED UNDER SOME ELEMENTS AS ALLOWED BY CODE.
2. PROVIDE A MINIMUM CLEAR SPACE 60 INCHES WIDE AT ALCOVES GREATER THAN 15 INCHES DEEP AND DESIGNED FOR SIDE APPROACH.
3. PROVIDE A MINIMUM CLEAR SPACE 36 INCHES WIDE AT ALCOVES GREATER THAN 24 INCHES DEEP AND DESIGNED FOR FRONT APPROACH.

HAZARDOUS AND PROJECTING OBJECTS

1. OBJECTS PROJECTING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27 INCHES AND 80 INCHES ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES.
2. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27 INCHES ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT.
3. FREE-STANDING OBJECTS MOUNTED ON POSTS / PYLONS MAY OVERHANG 12 INCHES MAXIMUM FROM 27 INCHES TO 80 INCHES ABOVE THE GROUND OR FINISHED FLOOR.
4. PROTRUDING OBJECTS SHALL NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
5. ANY OBSTRUCTION OVERHANGING A PEDESTRIAN WAY SHALL BE A MINIMUM OF 80 INCHES ABOVE THE WALKING SURFACE AS MEASURED TO THE BOTTOM OF THE OBSTRUCTION.

PARKING

1. SURFACE SLOPES OF ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1/4 INCH PER FOOT (2% GRADIENT) IN ANY DIRECTION.
2. ACCESSIBLE PARKING SPACES SHALL BE LOCATED SO AS NOT TO REQUIRE USERS TO TRAVEL OR WALK BEHIND ANY PARKING SPACE OTHER THAN THEIR OWN.
3. IN EACH PARKING AREA, A BUMPER OR CURB SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF CARS OVER THE REQUIRED WIDTH OF WALKWAYS.
4. PARKING SPACES RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT, IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 INCHES IN AREA AND, WHEN IN AN ACCESSIBLE ROUTE, SHALL BE POSTED AT A MINIMUM HEIGHT OF 80 INCHES FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE. SIGNS MAY ALSO BE MOUNTED ON THE WALL AT THE INTERIOR END OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 80 INCHES FROM THE PARKING SPACE FINISHED GRADE, GROUND, OR WALK.

DISCREPANCIES

1. THE INFORMATION DEPICTED ON THIS SHEET REPRESENT BUILDING CODE REQUIREMENTS. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES ON THIS PROJECT THAT WOULD CREATE A CONFLICT WITH THE PLANS OR ACCESS REQUIREMENTS.

ACCESSIBLE ROUTE NOTES

0500_0100_ACC ROUTE NOTES_01

DRAFT

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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
ACCESSIBILITY REQUIREMENTS

SHEET
GA512

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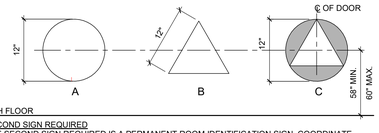
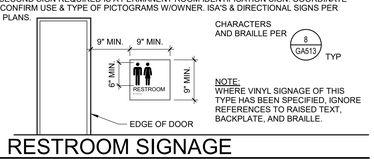
- PROVIDE SIGNAGE PER: CBC 11B-703
- SYMBOL IS TO BE OF CONTRASTING COLOR FROM THE DOOR. UNISEX SYMBOLS TO CONTRAST WITH EACH OTHER AND DOOR
- TO MEET THE 2022 CALIFORNIA TITLE 24 CODE AND AMERICANS WITH DISABILITIES ACT, A COMBINATION OF THE TWO FOLLOWING SIGNS ARE REQ'D FOR RESTROOM IDENTIFICATION:

FIRST SIGN REQUIRED
THE 1/4" THICK 12" CIRCLE DESIGNATES THE WOMEN'S RESTROOM, THE 1/4" THICK 12" EQUILATERAL TRIANGLE DESIGNATES THE MEN'S RESTROOM. A UNISEX RESTROOM IS DESIGNATED BY A 12" CIRCLE WITH A SOLID TRIANGLE SUPERIMPOSED ON IT, BOTH 1/4" THICK. CENTERED SIGN 60" ABOVE THE FLOOR. THE EDGES OF THE SIGN MUST BE EASED OR ROUNDED @ 1/6" MIN OR CHAMFERED AT 1/8" MAX. VERTICES OF THE TRIANGLE MUST BE RADIUSED 1/8" MIN TO 1/4" MAX.

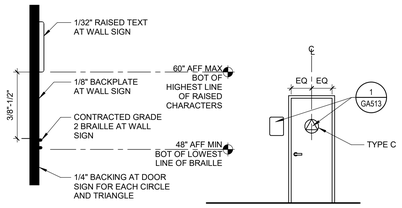


SECOND SIGN REQUIRED
THE SECOND SIGN REQUIRED IS A PERMANENT ROOM IDENTIFICATION SIGN. COORDINATE AND CONFIRM USE & TYPE OF PICTOGRAMS W/OWNER. ISA'S & DIRECTIONAL SIGNS PER SIGN PLANS.



NOTE:
WHERE VINYL SIGNAGE OF THIS TYPE HAS BEEN SPECIFIED, IGNORE REFERENCES TO RAISED TEXT, BACKPLATE, AND BRAILLE.

1 RESTROOM SIGNAGE
3/16" = 1'-0" — 0570_1014_REST SIGN CA_01



NOTE:
WHERE VINYL SIGNAGE OF THIS TYPE HAS BEEN SPECIFIED, IGNORE REFERENCES TO RAISED TEXT, BACKPLATE, AND BRAILLE.

IN EXISTING BUILDINGS, WHERE SPECIFIC TOILET OR BATHING ROOMS HAVE BEEN REMODELED TO BE ACCESSIBLE, THE LOCATION OF, AND DIRECTIONS TO THESE ROOMS MUST BE POSTED IN OR NEAR THE BUILDING LOBBY OR ENTRANCE ON A SIGN COMPLYING W/CBC IIB-703.5 VISUAL CHARACTERS.

CHARACTERS AND BRAILLE PER 8 GA513 TYP

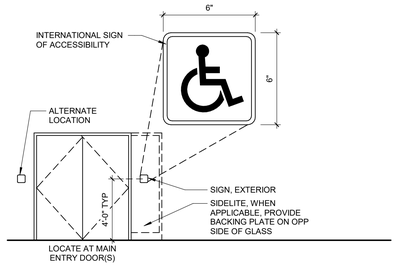
5 RESTROOM SIGNAGE
1/4" = 1'-0" — 0570_1014_REST SIGN CA_02

1. ALL SYMBOLS TO CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND, UNLESS APPROVED OTHERWISE, SEE BELOW.
2. BLUE TO APPROXIMATE FS15090 IN FEDERAL STANDARD 595C
3. ALTERNATE COLORS MAY BE USED IF APPROVED BY THE AUTHORITY HAVING JURISDICTION, BUT CONTRAST MUST REMAIN - EITHER DARK ON LIGHT OR LIGHT ON DARK
4. SEE SIGNAGE PLAN AND SPECIFIC SIGN DETAILS FOR SIZES AND APPLICATION

INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) — VOLUME CONTROL TELEPHONE — INTERNATIONAL SYMBOL OF TTY — INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS

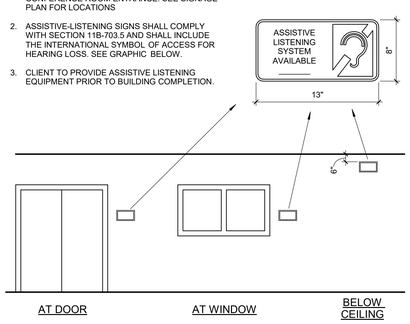
2 STANDARD SYMBOLS
1/2" = 1'-0" — 0570_1014_STD SYM_01

NOTES:
1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY IS TO BE PROVIDED AT ALL ACCESSIBLE ENTRANCE DOORS.
2. ENTRANCES THAT ARE NOT ACCESSIBLE SHALL HAVE SIGNAGE INDICATING DIRECTION TO THE NEAREST ACCESSIBLE ENTRANCE.
3. THESE LOCATIONS SHALL BE VERIFIED WITH THE ARCHITECT.
4. NON GLARE CONTRASTING BACKGROUND DARK ON LIGHT OR LIGHT ON DARK.



6 BUILDING ENTRY SIGNS
1/4" = 1'-0" — 0570_1014_BLDG ENTRY_01

NOTES:
1. SIGN NOT REQUIRED TO BE PROVIDED AT A DOOR. BUT MUST BE POSTED AT A PROMINENT LOCATION NEAR THE ASSEMBLY AREA / CONFERENCE ROOM ENTRANCE. SEE SIGNAGE PLAN FOR LOCATIONS
2. ASSISTIVE-LISTENING SIGNS SHALL COMPLY WITH SECTION 11B-703.5 AND SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS. SEE GRAPHIC BELOW.
3. CLIENT TO PROVIDE ASSISTIVE LISTENING EQUIPMENT PRIOR TO BUILDING COMPLETION.



7 ASSISTIVE LISTENING SIGN
1/4" = 1'-0" — 0570_1014_ASSISTIVE LISTENING_01

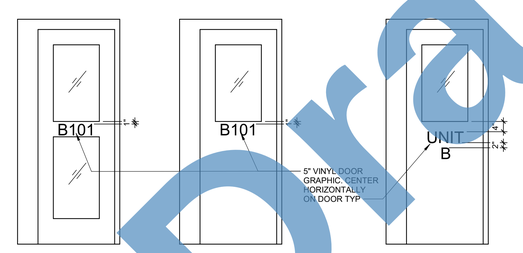
NOTES:
PROVIDE EXIT SIGNAGE PER: CBC 1011, 11B-216, 11B-703

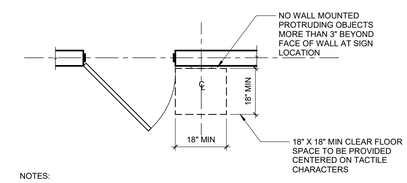
EXIT	TYPE 1 LOCATE AT GRADE LEVEL EXIT DOORS.
EXIT ROUTE	TYPE 2 LOCATE AT EACH ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY, AND EACH DOOR THAT LEADS TO A GRADE LEVEL EXIT BY MEANS OF EXIT ENCLOSURE OR EXIT PASSAGEWAY.
TO EXIT	TYPE 3 LOCATE AT EXIT DOOR OF A HORIZONTAL EXIT
EXIT STAIR DOWN	TYPE 4 LOCATE AT EXIT DOORS LEADING TO GRADE LEVEL EXTERIOR EXIT THROUGH STAIR.
EXIT RAMP DOWN	TYPE 5 LOCATE AT EXIT DOORS LEADING TO GRADE LEVEL EXTERIOR EXIT THROUGH RAMP.
EXIT STAIR UP	TYPE 6 LOCATE AT EXIT DOORS LEADING TO GRADE LEVEL EXTERIOR EXIT THROUGH STAIR.
EXIT RAMP UP	TYPE 7 LOCATE AT EXIT DOORS LEADING TO GRADE LEVEL EXTERIOR EXIT THROUGH RAMP.

LOCATION PER 4 GA513 TYP
CHARACTERS AND BRAILLE PER 8 GA513 TYP

11 EXIT SIGNS
1/2" = 1'-0" — 0570_1014_EXIT_01

NOTES:
1. GRAPHICS SHALL BE APPLIED TO BOTH SIDES WHERE INDICATED IN SCHEDULE IN THE 'COMMENTS' COLUMN
2. FONT STYLE = ARIAL NARROW

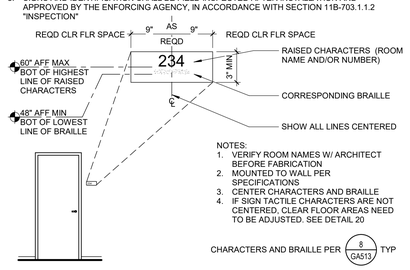




NOTES:
1. WHERE A TACTILE SIGN IS PROVIDED AT DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT EACH LATCH
2. EDGE OF THE CLEAR FLOOR SPACE IS TO BE ALIGNED TO THE LATCH FACE OF THE DOOR FRAME.
3. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF
4. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THEN THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR
5. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF A DOUBLE DOOR, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL
6. WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE
7. SIGNS THAT IDENTIFY EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE
8. FOR SIGN MOUNTING HEIGHT REQUIREMENTS; SEE DETAIL

3 SIGN LOCATION
SCALE: NTS — 0570_1014_TACTILE DR SIGN NOTES_01

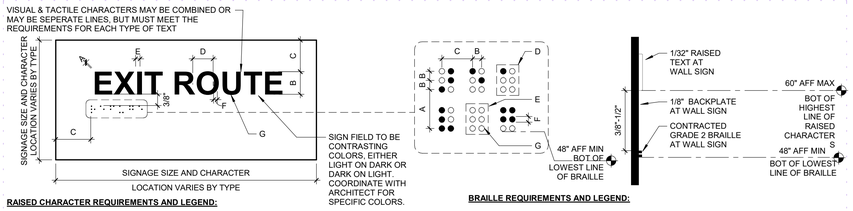
NOTES:
1. PERMANENT SIGNAGE TO BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.
2. AT SIGNS WITH TACTILE CHARACTERS - PROVIDE AN 18" SQUARE CLEAR FLOOR AREA CENTERED ON THE TACTILE CHARACTERS AND BEYOND THE ARC OF ANY DOOR SWING BETWEEN CLOSED AND 45 DEG. OPEN POSITIONS.
3. SIGNS AND IDENTIFICATION SHALL BE FIELD INSPECTED AFTER INSTALLATION AND APPROVED BY THE ENFORCING AGENCY, IN ACCORDANCE WITH SECTION 11B-703.1.1.2 "INSPECTION"



NOTES:
1. VERIFY ROOM NAMES W/ ARCHITECT BEFORE FABRICATION
2. MOUNTED TO WALL PER SPECIFICATIONS
3. CENTER CHARACTERS AND BRAILLE
4. IF SIGN TACTILE CHARACTERS ARE NOT CENTERED, CLEAR FLOOR AREAS NEED TO BE ADJUSTED. SEE DETAIL 20

4 PERMANENT ROOM IDENTIFICATION SIGNS
1/4" = 1'-0" — 0570_1014_PERM ROOM ID CA_01

VISUAL & TACTILE CHARACTERS MAY BE COMBINED OR MAY BE SEPERATE LINES, BUT MUST MEET THE REQUIREMENTS FOR EACH TYPE OF TEXT



RAISED CHARACTER REQUIREMENTS AND LEGEND:

A. CHARACTERS SHALL BE RAISED 1/32" MINIMUM ABOVE THEIR BACKGROUND.
B. CHARACTER HEIGHT SHALL BE A MINIMUM OF 5/8" AND A MAXIMUM OF 2" HIGH BASED ON THE UPPERCASE "I".
C. CHARACTERS SHALL BE SEPARATED FROM ANY RAISED BORDER OR DECORATIVE ELEMENT BY 3/8"
D. CHARACTER FONT PROPORTION WITH THE UPPERCASE 'O' WIDTH BEING 60 PERCENT MINIMUM TO 110 PERCENT MAXIMUM THE HEIGHT OF THE UPPERCASE 'I'.
E. CHARACTER STROKE THICKNESS OF THE UPPERCASE 'I' SHALL BE 15 PERCENT MAXIMUM THE HEIGHT OF CHARACTER.
F. CHARACTERS THAT HAVE RECTANGULAR CROSS SECTIONS MUST HAVE SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS 1/8" MIN. TO 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. CHARACTERS THAT HAVE OTHER (NON-RECTANGULAR) CROSS SECTIONS MUST HAVE SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS 1/16" MIN. TO 4 TIMES THE RAISED CHARACTER STROKE WIDTH MAX. AT THE BASE OF THE CROSS SECTION AND 1/8" MIN. TO 4 TIMES THE STROKE WIDTH AT THE TOP OF THE CROSS SECTIONS.
G. RAISED CHARACTERS ARE TO HAVE EASED EDGES.
H. CHARACTERS AND SIGN FIELD TO HAVE NON-GLARE FINISH. SANS-SERIF, HORIZONTAL FORMAT, WITH FONTS PER CBC 11B-703.2

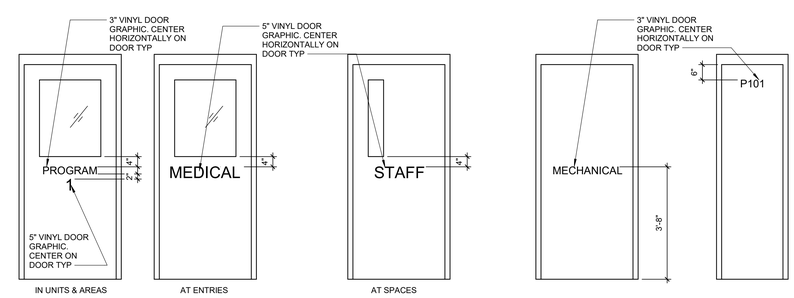
BRAILLE REQUIREMENTS AND LEGEND:

BRAILLE SHALL BE PER CBC 11B-703.3 INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: DISTANCES IN INCHES, MIN TO MAX.

A. DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW: 0.395 TO 0.400
B. DISTANCE BETWEEN TWO DOTS IN THE SAME CELL : 0.100, MEASURED CENTER TO CENTER
C. DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS: 0.300
D. SINGLE BRAILLE CELL
E. BLANK CELL SPACE BETWEEN WORDS
F. BASE DIAMETER: 0.059 TO 0.063
G. NO RAISED DOT, BLANK CELL SPACE BETWEEN WORDS

BRAILLE TO BE CONTRACTED GRADE 2, AND DOT HEIGHT TO BE 0.025 TO 0.037. DOTS MUST BE DOMED OR ROUNDED. DOTS INDICATING UPPERCASE LETTER OR LETTERS MUST ONLY BE USED AT THE FIRST WORD OF SENTENCES, PROPER NOUNS AND NAMES, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND/OR ACRONYMS.

8 ACCESSIBLE TACTILE SIGN REQUIREMENTS
6" = 1'-0" — 0570_1014_ACC TACTILE SIGN CA REQ_01



FUNCTIONAL SPACE DOORS — UTILITY PLUMBING CHASE DOOR

20 VINYL DOOR SIGNAGE
SCALE 1/2" = 1'-0"

Draft

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TITLE
ACCESSIBILTY SIGNAGE STANDARDS AND DETAILS

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1231.2 DESIGN CRITERIA FOR REQUIRED SPACES

2022 CALIFORNIA BUILDING CODE SECTION 1231 (BSCC) LOCAL DETENTION

KEY #	CODE REQUIREMENTS	DESIGN CONSIDERATION AND PROVIDED
	2022 CBC SECTION 1231.2 DESIGN CRITERIA FOR REQUIRED SPACES	
	1231.2.1 RECEPTION AND BOOKING FACILITIES WHERE BOOKING AND HOUSING OCCUR SHALL HAVE THE FOLLOWING SPACE AND EQUIPMENT:	
11.1	1 WEAPONS LOCKER AS SPECIFIED IN SEC 1231.3.12.	WEAPONS LOCKERS ARE PROVIDED ON WALL (NEAR ENTRY DOOR TO BOOKING SUITE) IN VEHICLE SALLY PORT.
	2 A CELL OR ROOM FOR THE CONFINEMENT OF INMATES PENDING THEIR BOOKING, COMPLYING WITH SEC 1231.2.2	TEMPORARY HOLDING CELLS ARE PROVIDED, SEE SEC 1231.2.2 BELOW.
	3 A SOBERING CELL AS DESCRIBED IN SEC 1231.2.4 IF INTOXICATED, INMATES WHO MAY POSE A DANGER TO THEMSELVES OR OTHERS ARE HELD. FOR THOSE FACILITIES THAT ACCEPT MALE AND FEMALE INTOXICATED INMATES TWO SOBERING CELLS SHALL BE PROVIDED.	(2) SOBERING CELLS ARE PROVIDED, SEE SEC 1231.2.4 BELOW.
14	4 ACCESS TO A SHOWER WITHIN THE SECURE PORTION OF THE FACILITY.	OPERATING PROCEDURE ALLOW TO USE SHOWER ROOM 305 IN AD-SEG UNIT.
15	5 PROVIDE ACCESS TO A SECURE VAULT OR STORAGE SPACE FOR INMATE VALUABLES.	INMATE PROPERTY STORAGE PROVIDED, SEE ROOM 203 IN BOOKING SUITE.
	6 A SAFETY CELL OR CELLS AS DESCRIBED IN SEC 1231.2.5 IF THE PROGRAM STATEMENT IDENTIFIES THE NEED FOR SUCH A CELL.	(1) SAFETY CELL IS PROVIDED, SEE SEC 1231.2.5 BELOW.
17	7 TELEPHONES WHICH ARE ACCESSIBLE TO THE INMATES.	INMATE PHONE PROVIDED IN PROCESS AREA OUTSIDE OF BOOKING 206.
18	8 UNOBSTRUCTED ACCESS TO HOT AND COLD RUNNING WATER FOR STAFF USE.	PROVIDED IN STAFF RESTROOM 205 (ADJACENT TO BOOKING SUITE).
2	**1231.2.2 TEMPORARY HOLDING CELL OR ROOM**	
	1 CONTAIN A MINIMUM OF 10 SF OF FLOOR AREA PER INMATE;	PROVIDED, SEE ROOMS 209 & 213.
	2 BE LIMITED TO NO MORE THAN 16 INMATES;	FACILITY OPERATING SHALL COMPLIES.
	3 BE NO SMALLER THAN 40 SF AND HAVE A CLEAR CEILING HEIGHT OF 8 FT OR MORE;	ROOM 209: 103 SF, 3 INMATES (ADA CELL) ROOM 213: 80 SF, 3 INMATES CEILING HEIGHT: 8'-8"
	4 CONTAIN SEATING TO ACCOMMODATE ALL INMATES AS REQUIRED IN SEC 1231.3;	SEATING PROVIDED
	5 CONTAIN A TOILET, WASH BASIN AND DRINKING FOUNTAIN AS SPECIFIED IN SEC 1231.3;	TOILET, WASH BASIN AND DRINKING FOUNTAIN PROVIDED.
	6 MAXIMIZE VISUAL SUPERVISION OF INMATES BY STAFF; AND	COMPLIES.
	7 WHEN LOCATED IN A TEMPORARY HOLDING FACILITY, THE CELL OR ROOM SHALL BE EQUIPPED WITH A BUNK IF INMATES ARE TO BE HELD LONGER THAN 12 HOURS.	NOT APPLICABLE
	1231.2.3 TEMPORARY STAGING CELL OR ROOM	
	1 BE CONSTRUCTED FOR THE PURPOSE OF HOLDING INMATES WHO HAVE BEEN CLASSIFIED AND SEGREGATED IN ACCORDANCE WITH SECTIONS 1050 AND 1053 OF TITLE 15, DIVISION 1, CALIFORNIA CODE OF REGULATIONS.	NOT APPLICABLE. THERE IS NO TEMPORARY STAGING CELL OR ROOM IN THIS PROJECT.
	2 BE LIMITED TO HOLDING INMATES UP TO FOUR HOURS.	
	3 BE LIMITED TO NO MORE THAN 80 INMATES.	
	4 CONTAIN A MINIMUM OF 10 SF OF FLOOR AREA PER INMATE AND A CLEAR CEILING HEIGHT OF 8 FT OR MORE.	
	5 BE NO SMALLER THAN 160 SF.	
	6 CONTAIN SEATING TO ACCOMMODATE ALL INMATES AS REQUIRED IN SEC 1231.3.	
	7 CONTAIN TOILET, WASH BASIN AND DRINKING FOUNTAIN AS SPECIFIED IN SEC 1231.3.	
	8 MAXIMIZE VISUAL SUPERVISION OF INMATES BY STAFF.	
	1231.2.4 SOBERING CELL	
	1 CONTAIN A MINIMUM OF 20 SF OF FLOOR AREA PER INMATE;	(2) SOBERING CELLS PROVIDED, SEE BELOW: SOBER 211: 94 SF, 3 INMATES (31 SF/INM) SOBER 212: 79 SF, 3 INMATES (26 SF/INM) CEILING HEIGHT: 8'-8"
	2 BE LIMITED TO EIGHT INMATES;	
	3 BE NO SMALLER THAN 60 SF AND HAVE A CLEAR CEILING HEIGHT OF 8 FT OR MORE;	
	4 CONTAIN TOILET, WASH BASIN AND DRINKING FOUNTAIN AS SPECIFIED IN SEC 1231.3;	COMPLIES.
4	5 HAVE PADDED PARTITIONS LOCATED NEXT TO TOILET FIXTURE IN SUCH A MANNER THAT THEY PROVIDE SUPPORT TO THE USER;	COMPLIES.
	6 MAXIMIZE VISUAL SUPERVISION OF INMATES BY STAFF.	COMPLIES. ROOMS HAVE DIRECT VIEW FROM BOOKING COUNTER AND CUSTODY
	7 BE PADDED ON THE FLOOR AS SPECIFIED IN SEC 1231.3; AND,	COMPLIES. SEE FINISH PLAN & SCHEDULE ON SHEETS I-111B & I-641.
	8 HAVE ACCESSIBLE A SHOWER IN THE SECURE PORTION OF THE FACILITY.	OPERATING PROCEDURE ALLOW TO USE SHOWER ROOM 305 IN AD-SEG UNIT.
	1231.2.5 SAFETY CELL	
	1 CONTAIN A MIN OF 48 SF OF FLOOR AREA WITH NO ONE FLOOR DIMENSION BEING LESS THAN 6 FT AND A CLEAR CEILING HEIGHT OF 8 FT OR MORE;	PROVIDED, SEE BELOW. SAFETY CELL 306: 60 SF, 1 INMATE ROOM SIZE: 9'-2" X 7'-1" CEILING HEIGHT: 8'-8"
	2 BE LIMITED TO ONE INMATES;	
	3 CONTAIN A FLUSHING RING TOILET, CAPABLE OF ACCEPTING SOLID WASTE, MOUNTED FLUSH WITH THE FLOOR, THE CONTROLS FOR WHICH MUST BE LOCATED OUTSIDE OF THE CELL;	
	4 BE PADDED AS SPECIFIED IN SEC 1231.3;	COMPLIES. SEE FINISH PLAN & SCHEDULE ON SHEETS I-111C & I-641.
5	5 BE EQUIPPED WITH A VARIABLE INTENSITY, SECURITY-TYPE LIGHTING FIXTURE WHICH IS INACCESSIBLE TO THE INMATE OCCUPANT. CONTROL OF WHICH IS LOCATED OUTSIDE OF THE CELL;	COMPLIES.
	6 PROVIDE ONE OR MORE VERTICAL VIEW PANELS NOT MORE THAN 4 INCHES WIDE NOR LESS THAN 24 INCHES LONG WHICH SHALL PROVIDE A VIEW OF THE ENTIRE ROOM;	COMPLIES. DOOR TYPE DJ5 WITH (2) SLOT VISION PANELS, 4" X 2'-9" EACH, SEE DOOR TYPE ON SHEET A-621.
	7 PROVIDE A FOOD PASS WITH LOCKABLE SHUTTER, NO MORE THAN 4 INCHES HIGH, AND LOCATED BETWEEN 26 INCHES AND 32 INCHES AS MEASURED FROM THE BOTTOM OF THE FOOD PASS TO THE FLOOR; AND,	COMPLIES. DOOR TYPE DJ5 HAS (1) FOOD PASS. BOTTOM OF FOOD PASS IS 30" ABOVE FINISH FLOOR. SEE SHEET A-621 AND FOOD PASS DETAILS ? & ?/A-541.
	8 ANY WALL OR CEILING MOUNTED DEVICES MUST BE INACCESSIBLE TO THE INMATE OCCUPANT.	COMPLIES.
6	**1231.2.6 SINGLE-OCCUPANCY CELLS**	
	1 HAVE A MAXIMUM CAPACITY OF ONE INMATE;	COMPLIES, SEE BELOW. CELLS 303: 91 SF, 11'-4" X 8'-0"; CELLS 304: 76 SF, 11'-4" X 6'-8"; 1 INMATE EACH CELL CEILING HEIGHT: 9'-4"
	2 CONTAIN A MIN OF 60 SF OF FLOOR AREA IN TYPE I FACILITIES AND 70 SF OF FLOOR AREA IN TYPE II AND TYPE III FACILITIES;	
	3 HAVE A MIN CLEAR CEILING HEIGHT OF 8 FT AND A MIN WIDTH OF 6 FT;	
	4 CONTAIN A TOILET, WASH BASIN AND DRINKING FOUNTAIN AS SPECIFIED IN SEC 1231.3; AND,	WILL PROVIDE SUICIDE RESISTANT GRAB BAR IN ADA AD SEG CELL 304. COMPLIES
	5 CONTAIN A BUNK, DESK AND SEAT AS SPECIFIED IN SEC 1231.3.	COMPLIES
	1231.2.7 DOUBLE-OCCUPANCY CELLS	
	1 HAVE A MAX CAPACITY OF TWO INMATES;	COMPLIES, SEE BELOW. TYPICAL CELLS 404, 405, 407, 410, 412, 416, 418, 421, 423, & 424 EACH CELL: 87 SF, 12'-8" X 7'-4"; CEILING HEIGHT (ALL CELLS): 9'-4"
	2 CONTAIN A MIN OF 60 SF OF FLOOR AREA IN TYPE I FACILITIES AND 70 SF OF FLOOR AREA IN TYPE II AND TYPE III FACILITIES;	
7	3 HAVE A MIN CLEAR CEILING HEIGHT OF 8 FT AND A MIN WIDTH OF 6 FT;	
	4 CONTAIN A TOILET, WASH BASIN AND DRINKING FOUNTAIN AS SPECIFIED IN SEC 1231.3; AND,	COMPLIES.
	5 CONTAIN TWO BUNKS, AND AT LEAST ONE DESK AND SEAT AS SPECIFIED IN SEC 1231.3.	COMPLIES.
8	**1231.2.8 DORMITORIES**	
	1 MIN 70 SF PER DOUBLE-BED UNIT, MINIMUM CEILING HEIGHT 8'-0"	COMPLIES, SEE BELOW. DORM 227: 857 SF; CONTAINS (5) DOUBLE BED UNITS; 171 SF PER DOUBLE-BED UNIT; DORM 328: 705 SF; CONTAINS (5) DOUBLE BED UNITS; 141 SF PER DOUBLE-BED UNIT; DORM 308: 282 SF; CONTAINS (2) DOUBLE BED UNITS; 141 SF PER DOUBLE-BED UNIT CEILING HEIGHT=8'-8".
	2 NO MORE THAN 64 INMATES, NO FEWER THAN 4 INMATES	DORMS 227, 328: 10 INMATES PER DORM DORM 308: 4 INMATES
	3 ACCESS TO WATER CLOSETS SEPARATE FROM WASH BASIN AND DRINKING FOUNTAIN	YES
	4 STORAGE SPACE FOR PERSONAL ITEMS AND CLOTHING FOR EACH OCCUPANT	BUILT-IN TO EACH BED UNIT
9	**1231.2.9 DAYROOMS**	
	1 CONTAIN 35 SF PER INMATE	DAYROOM 400 & 428: 1,026 SF EACH, 93 SF PER INMATE DAYROOM FOR AD-SEG 302: 164 SF, 82 SF PER INMATE
	2 CONTAIN TABLES AND SEATING TO ACCOMMODATE THE MAXIMUM NUMBER OF INMATES	DAYROOMS 400 & 428 (11-BED EACH): (3) 4-SEAT TABLES (12 SEATS INCLUDE 1 ADA SPACE) EACH ROOM DORMS 227 & 328 (10-BED EACH): (3) 4-SEAT TABLES (12 SEATS INCLUDE 1 ADA SPACE) EACH ROOM DORM 308 (4-BED): (1) 4-SEAT TABLE (INCLUDE 1 ADA SPACE) AD-SEG 302 (2-BED): (1) 4-SEAT TABLE (INCLUDE 1 ADA SPACE)
	3 ACCESS TO WATER CLOSETS SEPARATE FROM WASH BASIN AND DRINKING FOUNTAIN	YES. OPERATING PROCEDURE ALLOW INMATE GO BACK TO DORM FOR USING WATER CLOSET, WASH BASIN AND DRINKING FOUNTAIN
	4 ACCESS TO A SHOWER	YES
	5 TO ALL INMATES IN TYPE II FACILITY	YES
	DAYROOM SPACE AS DESCRIBED IN THIS SECTION MAY BE A PART OF A SINGLE OCCUPANCY CELL USED FOR ADMINISTRATIVE SEGREGATION OR A DORMITORY, IN WHICH CASE THE FLOOR AREA OF THE CELL OR A DORMITORY MUST BE INCREASED BY THE SQUARE FOOTAGE REQUIRED FOR THE DAYROOM.	DAYROOM SPACE PROVIDED IN 4-BED DORM 308, 10-BED DORMS 227 & 328. REQUIRED DAYROOM SPACE: 4-BED DORM 308: 140 SF 10-BED DORMS 227 & 328: 350 SF EACH MIN FLOOR AREA REQUIRED FOR DORM: (REFER TO 1231.2.9) 4-BED DORM 308: 140 SF 10-BED DORMS 227 & 328: 350 SF EACH **SPACE PROVIDED:** 4-BED DORM 308: 282 SF (COMPLIES) 10-BED 227: 857 SF (COMPLIES) 10-BED 328: 705 SF (COMPLIES)
10	**1231.2.10 EXERCISE AREA** (REQUIRED FOR TYPE II & TYPE III FACILITY)	
	MIN CLEAR HEIGHT 15'-0" MIN AREA WILL BE COMPUTED BY MULTIPLYING 80 PERCENT OF MAXIMUM RATED POPULATION BY 50 SF AND DIVIDING THE RESULT BY THE NUMBER OF ONE-HOUR EXERCISE PERIODS PER DAY.	OUTDOOR REC YARD 329 ALLOWS 11 INMATES IN (2) ONE-HOUR EXERCISE PERIODS PER DAY. 11 X 80% X 50 / 2 = 220 SF REQUIRED. 682 SF PROVIDED. CLEAR HEIGHT = 16'-6"
	FREE ACCESS TO A TOILET, WASH BASIN, AND DRINKING FOUNTAIN.	OPERATING PROCEDURE ALLOW INMATE GO BACK TO CELL/DORM FOR USING WATER CLOSET, WASH BASIN AND DRINKING FOUNTAIN
	THERE MUST BE AT LEAST ONE EXERCISE AREA OF NOT LESS THAN 600 SF. THE DESIGN SHALL FACILITATE SECURITY AND SUPERVISION APPROPRIATE TO THE LEVEL OF CUSTODY.	COMPLIES. OUTDOOR REC YARD 329: 682 SF
11	**1231.2.11 CORRECTIONAL PROGRAM/MULTIPURPOSE SPACE**	
	AN AREA FOR CORRECTIONAL PROGRAMMING MUST BE PROVIDED IN EVERY TYPE II AND TYPE III FACILITY. THE PROGRAM AREA AND FURNISHINGS SHALL BE DESIGNED TO MEET THE NEEDS SPECIFIED BY THE FACILITY'S PROGRAM STATEMENT.	FOLLOWING PROGRAM ROOMS ARE PROVIDED: PROGRAM 225: 231 SF PROGRAM 226: 208 SF
12	**1231.2.12 MEDICAL EXAMINATION ROOM**	
	THERE MUST BE A MINIMUM OF ONE SUITABLY EQUIPPED MEDICAL EXAMINATION ROOM IN EVERY FACILITY WHICH PROVIDES ON-SITE HEALTH CARE. THE EXAMINATION ROOM SHALL BE DESIGNED IN CONSULTATION WITH THE RESPONSIBLE PHYSICIAN/HEALTH AUTHORITY. SUCH A MEDICAL EXAMINATION ROOM SHALL:	(1) EXAM (ROOM 237) IS PROVIDED.
	1 BE LOCATED WITHIN THE SECURITY AREA AND PROVIDE FOR PRIVACY OF THE INMATES	COMPLIES
	2 NOT LESS THAN 100 SF WITH NO SINGLE DIMENSION LESS THAN 7"	EXAM 237: 143 SF (13'-4" X 10'-8")
12.3	3 PROVIDE HOT AND COLD RUNNING WATER	PROVIDED AT SINK IN THE ROOM
12.4	4 PROVIDE LOCKABLE STORAGE FOR MEDICAL SUPPLIES	LOCKABLE DOOR & LOCKABLE CABINETS PROVIDED IN EXAM ROOM 237.
	5 PROVIDE AN EXAMINATION TABLE	WILL BE PROVIDED BY OWNER (OFOI ITEM)
	6 PROVIDE ADEQUATE LIGHTING	SEE LIGHTING PLAN
12.7	7 ANY ROOM WHERE MEDICAL PROCEDURES ARE PROVIDED MUST BE EQUIPPED WITH HOT AND COLD RUNNING WATER	SINK WITH HOT AND COLD RUNNING WATER PROVIDED AT MEDS/EQUIP 232 .
13	**1231.2.13 PHARMACEUTICAL STORAGE SPACE**	
	PROVIDE LOCKABLE STORAGE SPACE FOR MEDICAL SUPPLIES AND PHARMACEUTICAL PREPARATIONS AS REFERENCED BY TITLE 15, CALIFORNIA CODE OF REGULATIONS, SECTION 1216.	LOCKABLE DOOR AND LOCKABLE STORAGE SPACE PROVIDED IN ROOM 232. (FACILITY WILL PROVIDE NARCOTICS CABINET IF NEEDED).
14.1	**1231.2.14 MEDICAL CARE HOUSING**	
	THERE SHALL BE SOME MEANS TO PROVIDE MEDICAL CARE AND HOUSING OF ILL AND/OR INFIRM INMATES. WHEN THE PROGRAM STATEMENT FOR A TYPE II OR TYPE III FACILITY INDICATES THAT MEDICAL CARE HOUSING IS NEEDED, SUCH HOUSING MUST PROVIDE LOCKABLE STORAGE SPACE FOR MEDICAL INSTRUMENTS AND MUST BE LOCATED WITHIN THE SECURITY AREA OF THE FACILITY ACCESSIBLE TO BOTH FEMALE AND MALE INMATES, BUT NOT IN THE LIVING AREA OF EITHER. THE MEDICAL CARE HOUSING UNIT SHALL BE DESIGNED IN CONSULTATION WITH THE HEALTH AUTHORITY. MEDICAL / MENTAL HEALTH AREAS MAY CONTAIN OTHER THAN SINGLE OCCUPANCY CELLS.	MEDICAL CARE HOUSING DOES NOT PROVIDED IN THIS BUILDING EXCEPT ONE ISOLATION ROOM. LOCKABLE STORAGE SPACE IS PROVIDED. SEE ROOM 232 IN THE ADMIN AREA OF MENTAL HEALTH HOUSING AREA.
14.2	IF NEGATIVE PRESSURE ISOLATION ROOMS ARE BEING PLANNED, THEY SHALL BE DESIGNED TO RECOGNIZED INDUSTRY STANDARDS.	(1) NEGATIVE PRESSURE ISOLATION ROOM IS PROVIDED. SEE ROOM 218.
	1231.2.16 COMMISSARY	
	IN ALL TYPE II, III AND IV FACILITIES, EXCEPT WHERE COMMUNITY ACCESS IS AVAILABLE, THERE SHALL BE PROVISIONS MADE FOR INMATES TO PURCHASE ITEMS (SUCH AS CANDY, TOILET ARTICLES, STATIONERY SUPPLIES, BOOKS, NEWSPAPERS AND MAGAZINES, ETC.). AN AREA SHALL BE PROVIDED FOR THE SECURE STORAGE OF THE STOCK FOR SUCH INMATE CANTEEN ITEMS.	REFER TO COUNTY OPERATION STATEMENT WEEKLY COMMISSARY ITEMS ARE DELIVERED TO THE FACILITY WEEKLY AND DISTRIBUTED SAME DAY TO THE INMATES. NO STORAGE IS REQUIRED FOR CANTEEN ITEMS.
17	**1231.2.17 DINING FACILITIES**	
	IN ALL TYPE II, III AND IV FACILITIES WHICH SERVE MEALS, DINING AREAS SHALL BE PROVIDED WHICH WILL ALLOW GROUPS OF INMATES TO DINE TOGETHER. SUCH DINING AREAS SHALL NOT CONTAIN TOILETS, WASH BASINS OR SHOWERS IN THE SAME ROOM WITHOUT APPROPRIATE VISUAL BARRIER. WHEREVER THE FACILITY CONTAINS A CENTRAL DINING ROOM OR ROOMS, IT SHALL CONTAIN A MINIMUM OF 15 SQUARE FEET OF FLOOR SPACE AND SUFFICIENT TABLES AND SEATING FOR EACH INMATE BEING FED.	MEALS ARE PREPARED IN KITCHEN (ROOM 314) AND DELIVERED TO THE DAYROOMS.
18	**1231.2.18 VISITING SPACE**	
	SPACE SHALL BE PROVIDED IN ALL TYPE II, III AND IV FACILITIES FOR VISITING.	VISITING SPACE (ROOMS 104 & 105) PROVIDED IN THIS BUILDING.
19	**1231.2.19 SAFETY EQUIPMENT STORAGE**	
	A SECURE AREA SHALL BE PROVIDED FOR THE STORAGE OF SAFETY EQUIPMENT SUCH AS FIRE EXTINGUISHERS, SELF-CONTAINED BREATHING APPARATUS, WIRE AND BAR CUTTERS, EMERGENCY LIGHTS, ETC.	EQUIPMENT WILL BE STORED IN CENTRAL CONTROL 223.
20	**1231.2.20 JANITORS' CLOSET**	
	IN TYPE II FACILITIES, AT LEAST ONE SECURELY LOCKABLE JANITORS CLOSET WITH SUFFICIENT AREA FOR THE STORAGE OF CLEANING IMPLEMENTS AND SUPPLIES MUST BE PROVIDED WITHIN THE SECURITY AREA OF THE FACILITY. A MOP SINK SHALL ALSO BE AVAILABLE WITHIN THE SECURITY AREA OF THE FACILITY. IN COURT HOLDING, TEMPORARY HOLDING, TYPES I, III AND IV FACILITIES, THE CLOSET NEED NOT BE IN THE SECURITY AREA.	LOCKABLE JANITORS' CLOSET ARE PROVIDED AT EACH HOUSING POD. ADDITIONAL JANITORS' CLOSET ALSO PROVIDED IN THE COMMON AREA. JANITOR 401 & 427 FOR HOUSING UNITS; JANITOR 231 & 320 FOR DORMS; JANITOR 204 & 325 IN COMMON AREA; JANITOR 116 IN ADMIN AREA.
21	**1231.2.21 STORAGE ROOMS**	
	ONE OR MORE STORAGE ROOMS SHALL BE PROVIDED TO ACCOMMODATE A MINIMUM OF 80 CUBIC FEET OF STORAGE AREA PER INMATE FOR INMATE CLOTHING AND PERSONAL PROPERTY, INSTITUTIONAL CLOTHING, BEDDING AND SUPPLIES.	REQUIRED STORAGE SPACE = 48 INMATES x 80 CUBIC FEET = 3,840 CUBIC FEET. PROPERTY 203: 224 SF X 15'-4" = 3,434 CF STORAGE 234: 172 SF X 9'-0" = 1,548 CF TOTAL STORAGE SPACE = 4,982 CUBIC FEET (COMPLIES)
	1231.2.22 AUDIO MONITORING SYSTEM	
	THERE SHALL BE AN INMATE- OR SOUND-ACTUATED AUDIO MONITORING SYSTEM IN TEMPORARY HOLDING CELLS OR ROOMS, TEMPORARY STAGING CELLS OR ROOMS, SOBERING CELLS, SAFETY CELLS, SINGLE OR DOUBLE OCCUPANCY CELLS, DORMITORIES, DAYROOMS, EXERCISE AREAS AND CORRECTIONAL PROGRAM /MULTIPURPOSE SPACE, WHICH IS CAPABLE OF ALERTING PERSONNEL WHO CAN RESPOND IMMEDIATELY.	COMPLIES. INTERCOM SYSTEM PROVIDED IN REQUIRED ROOMS. SEE TY-100 SERIES SECURITY ELECTRONICS PLANS.
23	**1231.2.23 LAUNDRY FACILITIES**	
	IN TYPE IV FACILITIES, PROVISION SHALL BE MADE FOR WASHING AND DRYING PERSONAL CLOTHING BY MACHINES, EITHER IN THE FACILITY OR IN THE COMMUNITY IF ACCESS IS PERMITTED FOR SAME.	COMPLIES. SEE LAUNDRY ROOM 311.
	1231.2.24 EMERGENCY POWER	
	THERE SHALL BE A SOURCE OF EMERGENCY POWER IN ALL DETENTION FACILITIES CAPABLE OF PROVIDING MINIMAL LIGHTING IN ALL HOUSING UNITS, ACTIVITIES AREAS, CORRIDORS, STAIRS AND CENTRAL CONTROL POINTS, AND TO MAINTAIN FIRE AND LIFE SAFETY, SECURITY, COMMUNICATIONS AND ALARM SYSTEMS, SUCH AN EMERGENCY POWER SOURCE SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN TITLE 24, PART 3, ARTICLE 700, CALIFORNIA ELECTRICAL CODE, CALIFORNIA CODE OF REGULATIONS.	PROVIDED AS REQUIRED PER THIS PROVISION. SEE ES101 ELECTRICAL SITE PLAN FOR EMERGENCY GENERATOR LOCATIONS. SEE EL161 SERIES FOR EMERGENCY LIGHTING PHOTOMETRICS PLANS.
25	**1231.2.25 CONFIDENTIAL INTERVIEW ROOMS**	
	THERE MUST BE A MINIMUM OF ONE SUITABLY FURNISHED INTERVIEW ROOM FOR CONFIDENTIAL INTERVIEWS IN EVERY FACILITY WHICH PROVIDES ON-SITE HEALTH CARE. THE INTERVIEW ROOM SHALL BE DESIGNED IN CONSULTATION WITH RESPONSIBLE CUSTODIAL STAFF AND HEALTH CARE STAFF.	INTERVIEW 235 WILL BE USED TO MEET THIS REQUIREMENT.
	1 BE LOCATED WITH IN THE SECURITY AREA ACCESSIBLE TO BOTH FEMALE AND MALE INMATES	OFFICE 235 IS IN SECURITY AREA. (COMPLIES)
	2 PROVIDE NOT LESS THAN 70 SF WITH NO SINGLE DIMENSION LESS THAN 6 FEET.	COMPLIES. OFFICE 235: 100 SF (9'-4" X 10'-8")
26	**1231.2.26 ATTORNEY INTERVIEW SPACE**	
	ALL FACILITIES EXCEPT TYPE IV FACILITIES SHALL INCLUDE ATTORNEY INTERVIEW AREAS WHICH PROVIDE FOR CONFIDENTIAL CONSULTATION WITH INMATES.	NON-CONTACT VISITING ROOMS 106 & 107 ARE PROVIDED FOR ATTORNEY INTERVIEW. SEE FLOOR PLAN.

1231.3 DESIGN CRITERIA FOR FURNISHINGS AND EQUIPMENT

2022 CALIFORNIA BUILDING CODE SECTION 1231 (BSCC) LOCAL DETENTION

KEY #	CODE REQUIREMENTS	DESIGN CONSIDERATION AND PROVIDED
	1231.3.1 TOILETS/URINALS	
	1 TOILETS/URINALS MUST BE PROVIDED IN SINGLE-OCCUPANCY CELLS AND DOUBLE-OCCUPANCY CELLS	COMPLIES. (1) COMBI UNIT PROVIDED IN EACH CELL.
	2 IN DORMITORIES, TOILETS/URINALS MUST BE PROVIDED IN A RATIO TO INMATES OF 1:10	COMPLIES. (1) TOILET/URINAL PROVIDED IN EACH DORMITORY. MAX RATIO IS 1:10.
	3 TOILETS/URINALS MUST BE ACCESSIBLE TO THE OCCUPANTS OF DAY-ROOMS AND EXERCISE AREAS.	FACILITY OPERATING PROCEDURE WILL ALLOW INMATE FROM DAYROOM OR EXERCISE YARD REENTER THEIR CELL/DORM FOR USING TOILET/URINAL. THERE IS NO SEPARATED TOILET IN DAY-ROOMS AND OUTDOOR EXERCISE YARD.
	4 IN TEMPORARY HOLDING CELLS AND TEMPORARY STAGING CELLS TOILETS/URINALS MUST BE PROVIDED IN A RATIO TO INMATES OF 1:16	COMPLIES. (1) COMBI UNIT PROVIDED IN EACH TEMPORARY HOLDING CELL. THE MAX RATION IS 1:3.
	5 IN SOBERING CELLS TOILETS/URINALS MUST BE PROVIDE IN A RATIO TO INMATES OF 1:8	COMPLIES. (1) COMBI UNIT PROVIDED IN EACH SOBERING CELL. THE MAX RATIO IS 1:3.
	6 ONE URINAL OR 2 FEET OF URINAL TROUGH MAY BE SUBSTITUTED FOR EACH TOILET UP TO ONE THIRD OF THE TOTAL NUMBER OF TOILETS REQUIRED, EXCEPT IN THOSE FACILITIES OR PORTIONS THEREOF USED FOR FEMALES.	NOT USED.
	7 TOILET AREAS SHALL PROVIDE MODESTY FOR INMATES WITH STAFF BEING ABLE TO VISUALLY SUPERVISE.	COMPLIES. LOW WALL OR MODESTY PANEL PROVIDED IN DORM BETWEEN BEDS AND TOILETS.
	1231.3.2 WASH BASINS	
	1 WASH BASINS MUST BE PROVIDED IN SINGLE-OCCUPANCY CELLS AND DOUBLE-OCCUPANCY CELLS	COMPLIES. (1) COMBI UNIT PROVIDED IN EACH CELL.
	2 IN DORMITORIES, WASH BASINS MUST BE PROVIDED IN A RATIO TO INMATES OF 1:10	COMPLIES. (1) WASH BASINS IS PROVIDED IN EACH DORMITORY. MAX RATIO IS 1:10.
	3 WASH BASINS MUST BE ACCESSIBLE TO THE OCCUPANTS OF DAY-ROOMS AND EXERCISE AREAS.	FACILITY OPERATING PROCEDURE WILL ALLOW INMATE FROM DAYROOM OR EXERCISE YARD REENTER THEIR CELL/DORM FOR USING WASH BASIN. THERE IS NO SEPARATED WASH BASIN IN DAY-ROOMS AND (2) EXERCISE YARD FOR MENTAL HEALTH HOUSING POD. (1) WASH BASIN PROVIDED IN EACH EXERCISE YARD FOR GENERAL HOUSING POD.
	4 IN TEMPORARY HOLDING CELLS AND TEMPORARY STAGING CELLS, WASH BASINS MUST BE PROVIDED IN A RATIO TO INMATES OF 1:16	COMPLIES. (1) COMBI UNIT PROVIDED IN EACH TEMPORARY HOLDING CELL. THE MAX RATION IS 1:3.
	5 IN SOBERING CELLS, WASH BASINS MUST BE PROVIDE IN A RATIO TO INMATES OF 1:8	COMPLIES. (1) COMBI UNIT PROVIDED IN EACH SOBERING CELL. THE MAX RATIO IS 1:3.
	6 WASH BASINS MUST BE PROVIDED WITH HOT AND CLOD OR TEMPERED WATER.	PROVIDED. REFER TO PLUMBING DRAWINGS.
	7 TWO FEET OF WASH BASIN TROUGH MAY BE SUBSTITUTED FOR EACH BASIN REQUIRED.	NOT USED
	1231.3.3 DRINKING FOUNTAINS	
	THERE MUST BE A MINIMUM OF ONE DRINKING FOUNTAIN IN EVERY SINGLE-OCCUPANCY CELL, DOUBLE-OCCUPANCY CELL, DORMITORY, TEMPORARY HOLDING CELL, TEMPORARY STAGING CELL, SOBERING CELL, AND BE ACCESSIBLE TO THE OCCUPANTS OF DAY ROOMS AND EXERCISE AREAS. ADDITIONAL DRINKING FOUNTAIN SHALL BE LOCATED IN OTHER AREAS OF THE FACILITY SO THAT DRINKING WATER WILL BE AVAILABLE TO INMATES AND STAFF. SUCH DRINKING FOUNTAINS MUST MEET THE FOLLOWING MINIMUM HEALTH REQUIREMENTS:	PROVIDED WASH BASIN WITH BUBBLER IN EACH FOLLOWING SPACE: SINGLE-OCCUPANCY CELL, DOUBLE-OCCUPANCY CELL, DORMITORY, TEMPORARY HOLDING CELL, SOBERING CELL. FACILITY OPERATING PROCEDURE WILL ALLOW INMATE FROM DAYROOM OR EXERCISE YARD REENTER THEIR CELL/DORM FOR USING DRINKING FOUNTAIN. THERE IS NO SEPARATED DRINKING FOUNTAIN IN DAY ROOMS AND EXERCISE YARD FOR MENTAL HEALTH HOUSING POD.
	1 THE DRINKING FOUNTAIN BUBBLER SHALL BE ON AN ANGLE WHICH PREVENTS WASTE WATER FROM FLOWING OVER THE DRINKING FOUNTAIN BUBBLER.	COMPLIES. REFER TO WC/L-1, WC/L-2 AND L-2 ON PLUMBING FIXTURE CONNECTION SCHEDULE ON P-002 AND PLUMBING FLOOR PLANS P-201 SERIES.
	2 WATER FLOW SHALL BE ACTUATED BY MECHANICAL MEANS.	COMPLIES. REFER TO MANUFACTURER'S LITERATURE.
	1231.3.4 SHOWERS	
	MUST BE AVAILABLE TO ALL INMATES ON A RATIO OF AT LEAST ONE SHOWER TO EVERY 20 INMATES OR FRACTION THEREOF AND MUST PROVIDE HOT AND COLD WATER OR TEMPERED WATER. SHOWER STALLS/SHOWER AREAS MUST BE DESIGNED AND CONSTRUCTED OF MATERIALS WHICH ARE IMPERVIOUS TO WATER AND SOAP SO THEY MAY BE EASILY CLEANED. SHOWER AREAS SHALL PROVIDE MODESTY FOR INMATES WITH STAFF BEING ABLE TO VISUALLY SUPERVISE.	COMPLIES. SHOWER ROOM PROVIDED AT EACH HOUSING POD. MIN RATIO IS 1:11.
	1231.3.5 BEDS	
	MUST BE ELEVATED OFF THE FLOOR, HAVE A SOLID BOTTOM, AND A SLEEPING SURFACE OF AT LEAST 30 INCHES WIDE AND 76 INCHES LONG. MULTIPLE BEDS MUST HAVE A MINIMUM OF 21 INCHES BETWEEN BED PANS. EXCEPT IN MINIMUM SECURITY AREAS, BEDS MUST BE SECURELY FASTENED TO THE FLOOR OR THE WALL.	COMPLIES. CONCRETE LOWER BUNK AND WALL MOUNTED UPPER BUNK ARE PROVIDED. SEE DETAILS 16/A-522 & 11/A-

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

LEGEND

1.1	DENOTES KEY # ON TABLE 1231.2 DESIGN CRITERIA FOR REQUIRED SPACE , SEE SHEET GB110

1 BSCC CODE COMPLIANCE - FLOOR PLAN
1/8" = 1'-0"

NORTH

Draft

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P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
BSCC CODE COMPLIANCE - FLOOR PLAN

SHEET
GB111
V1

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9/8/2023 8:42:20 PM

FIRE FLOW TEST REPORT

(TESTED ON 6/16/2023)

R|O|Anderson

MEMORANDUM

Via E-mail

DATE: July 24, 2023

TO: Thomas Mullinax, Operations & Field Manager
BRIDGEPORT PUBLIC UTILITY DISTRICT

FROM: Robert O. Anderson, PE, CFM, WRS
R.O. ANDERSON ENGINEERING, INC.

SUBJECT: Fire Hydrant Flow Test Results – 221 Twin Lakes Road
APN 008-080-007-000, Mono County, NV

Dear Tom,

This memorandum serves to summarize the fire hydrant flow test that was performed by representatives of R.O. Anderson Engineering, Inc. in cooperation with personnel of Bridgeport Public Utility District (BPUD). The test was performed on Friday, June 16, 2023, at 221 Twin Lakes Road in Bridgeport, CA by Matthew Ofsthun, EI, R.O. Anderson Engineering and witnessed by Deputy Steven Mahoney with the Office of the State Fire Marshal.

A two-hydrant flow test was performed to determine the water system's capability to deliver fire flows at this site. The Residual Hydrant is located on the north side of Kingsley Street at the intersection of Kinsley Street and Twin Lakes Road. The Flow Hydrant is located approximately 915 feet south of the Residual Hydrant on the east side of Twin Lakes Road. The locations of these test hydrants are shown on the exhibit below.

REGISTERED PROFESSIONAL ENGINEER
ROBERT O. ANDERSON
C041711
Exp. 3/31/24
CIVIL
STATE OF CALIFORNIA
7/24/23

T:\Client Files\0883\0883-033\Documents\Hydrant Flow Test\Memo T Mullinax re Fire Hydrant Flow Test Results 0883-033.doc

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Minden, Nevada
Reno, Nevada

R|O|Anderson

Thomas Mullinax
July 24, 2023
Page 2 of 3

Exhibit 1 – Test Hydrant Locations

The hydrant test was conducted in accordance with procedures accepted by National Fire Protection Association (NFPA) and American Water Works Association (AWWA)

R|O|Anderson

Thomas Mullinax
July 24, 2023
Page 3 of 3

including determining the Predicted Flow at 20 pounds per square inch (PSI). The following observations were made:

Residual Hydrant:
- Static Pressure (SP): 82 PSI
- Residual Pressure (RP): 66 PSI

Flow Hydrant:
- 1,130 gallons per minute (GPM) at 45 PSI

From these observations, the predicted capacity of the Flow Hydrant is: 2,348 GPM at 20 PSI.

Representatives from BPUD informed us that the water main that serves these hydrants is connected to BPUD's water system, the supply for which is two municipal wells. There are also two water storage tanks connected to the distribution system that are maintained by BPUD at or very near full capacity. The Coasting Hill storage tank has a maximum storage capacity, at a water level of 22'-10", of approximately 214,460 gallons and the Evans storage tank has a maximum storage capacity, at a water level of 34'-10", of approximately 327,444 gallons. The Coasting Hill Tank and the Evans Tank had recorded water levels at 19.4' and 29.1', respectively. Accordingly, the water system that serves the property line at 221 Twin Lakes Road project site has a combined water storage capacity of approximately 542,084 gallons, without considering the capacity of the two wells.

The two water supply wells were off during this test.

As you review this summary, should you have any questions or require any clarifications, I trust you will contact me.

(End of Memorandum)

cc. Paul Roten, Mono County Public Works Director
proten@mono.ca.gov

Draft

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

LICENSED ARCHITECT
RICHARD J. DAVIS
C-27266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE

FIRE HYDRANT FLOW TEST REPORT

SHEET

GL021

V1

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FIRE HAZARD SEVERITY ZONES: SRA MODERATE

MONO COUNTY FIRE HAZARD SEVERITY ZONES IN STATE RESPONSIBILITY AREA (SRA) ADOPTED BY CAL FIRE ON NOV. 7, 2007: **SRA - MODERATE**

FIRE FLOW (CFC APPENDIX B & C)

	FIRE FLOW CALCULATION AREA:	21,815 SF
	FIRE SUPPRESSION SYSTEM:	FULLY SPRINKLERED WET SYSTEM
CFC TABLE B105.1 (2)	REQUIRED FIRE FLOW:	1,500 GPM (2 HR DURATION)
CFC TABLE B105.2	FIRE FLOW REDUCTION:	1,000 GPM (UP TO 25% TABLE B105.1(2) VALUE AND SHALL BE NOT LESS THAN 1,000 GPM)
	SPRINKLER DEMAND:	500 GPM
	FIRE FLOW PROVIDED:	AS TESTED ON 6/16/2023 (REFER TO FLOW TEST REPORT ON SHEET GL021). EQUIVALENT FIRE FLOW = 2,348 GPM @ 20 PSI RESIDUAL PRESSURE
CFC TABLE C102.1	NUMBER OF FIRE HYDRANTS	
	REQUIRED:	1
	PROVIDED:	4 (1 EXIST, 3 NEW)
CFC TABLE C102.1	AVERAGE SPACING BETWEEN HYDRANTS	
	REQUIRED:	500 FT
	PROVIDED:	220 FT
	HYDRANT TO BLDG DISTANCE PROVIDED:	40 FT MIN

NOTE: ADDITIONAL FLOW TEST IS REQUIRED PRIOR TO CONSTRUCTION AND SHALL BE PERFORMED BY C-16 LICENSED CONTRACTOR AND WITNESSED BY AHJ/DSFM.

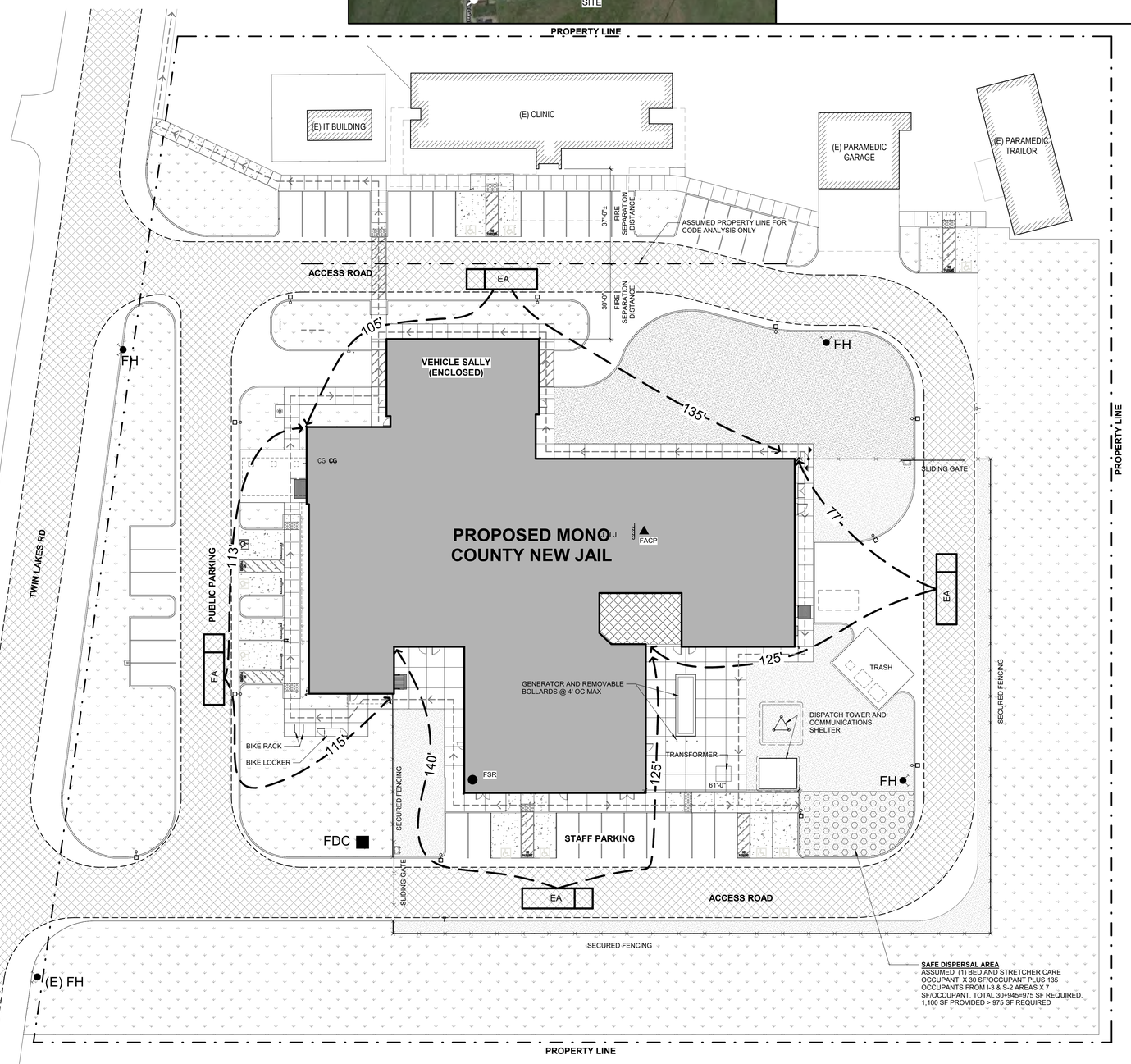
FIRE STATION LOCATION MAP

LEGENDS - LIFE SAFETY SITE PLAN

- PROPOSED BUILDING
- EXISTING BUILDING
- FIRE APPARATUS ACCESS ROAD (REQUIRED PER 2022 TITLE 19, DIVISION 1, CHAPTER 1, SUBCHAPTER 1, ARTICLE 3.05(a)) REQUIRED ACCESS ROADS FROM BUILDING TO THE PUBLIC STREET SHALL BE ALL-WEATHER HARD-SURFACED (SUITABLE FOR USE BY FIRE APPARATUS) RIGHT-OF-WAY NOT LESS THAN 20 FT. IN WIDTH. SUCH RIGHT-OF-WAY SHALL BE UNOBSTRUCTED & MAINTAINED ONLY AS ACCESS TO THE PUBLIC STREET.
- SAFE DISPERSAL AREA
- FH — FIRE HYDRANT
- FSR — FIRE SPRINKLER RISER
- FDC — FIRE DEPARTMENT CONNECTION
- FACP — FIRE ALARM CONTROL PANEL
- FIRE LANE CURB, SEE 9/AS501
- 150 FT — FIRE HOSE LENGTH
- ACCESSIBLE PATH OF TRAVEL TO PUBLIC WAY
- EA — EMERGENCY APPARATUS

GENERAL NOTES - LIFE SAFETY SITE PLAN

1. FOR SYMBOLS LEGEND, ARCHITECTURAL ABBREVIATIONS, AND APPLICABLE CODES, SEE COVER SHEET G-001.
2. SEE SHEET GL110 FOR BUILDING FIRE LIFE SAFETY CODE SUMMARY.
3. SEE CIVIL DRAWINGS FOR FIRE HYDRANT AND FIRE DEPARTMENT CONNECTION LOCATIONS AND DETAILS.
4. SEE ELECTRICAL DRAWINGS FOR FIRE ALARM CONTROL PANEL LOCATION.
5. SEE FIRE PROTECTION DRAWINGS FOR FIRE SPRINKLER RISER.



1 LIFE SAFETY - SITE PLAN
1" = 20'-0"

STATE OF CALIFORNIA – NATURAL RESOURCES AGENCY — Gavin Newsom, Governor

DEPARTMENT OF FORESTRY AND FIRE PROTECTION
Office of the State Fire Marshal
P.O. Box 94246 SACRAMENTO
CA 94244-2460 (916) 568-2993
Website: www.calfire.ca.gov

LOCAL FIRE AUTHORITY – ACCESS APPROVAL

Agency & Project Name: Mono County New Jail

Address: 221 Twin Lakes Road, Bridgeport, CA 95317

GovMotus Control Number: _____

Pursuant to CCR Title 19 §3.00 and §3.05, the California State Fire Marshal is requesting certification from the local fire authority that the above sections are met to their satisfaction.

This form shall be scanned to the accompanying fire access plan reflecting all items under consideration, and wet signed by the local fire authority. Please complete all applicable items based on scope. California State Fire Marshal project approval may be delayed until this form is completed and returned. If you have any questions, please contact the California State Fire Marshal Plan Review Section at (916) 568-2993.

Approved	Yes	No
Fire Department Access	✓	
Fire Department Connection	✓	
Fire Hydrant	✓	
Fire Alarm Annunciator	✓	
Fire Alarm Control Panel	✓	
Knox Box		✓
Emergency Responder Radio Coverage	✓	✓
Medical Emergency Service Elevator		✓
Fire Service Access Elevator		✓
Bi-Directional Amplification (BDA) Systems		✓

Local Fire Authority: Bridgeport Fire Protection District
Address: 320 Main St - PO Box 370
City/State/ZIP: Bridgeport, CA 93517

Approval issued by: Thomas Mattson
Rank/Title: Fire Chief
Phone Number: 707-785-0927
Signature: [signature] Date: 07-10-2023

"The Department of Forestry and Fire Protection exists to serve and safeguard the people and protect the property and resources of California."

Draft

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CLIENT PROJECT NO:
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TITLE
FIRE LIFE SAFETY - SITE PLAN

SHEET
GL101
V1

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BUILDING ELEMENTS FIRE-RESISTANCE RATING AND ASSEMBLIES

BUILDING CONSTRUCTION TYPE I-B

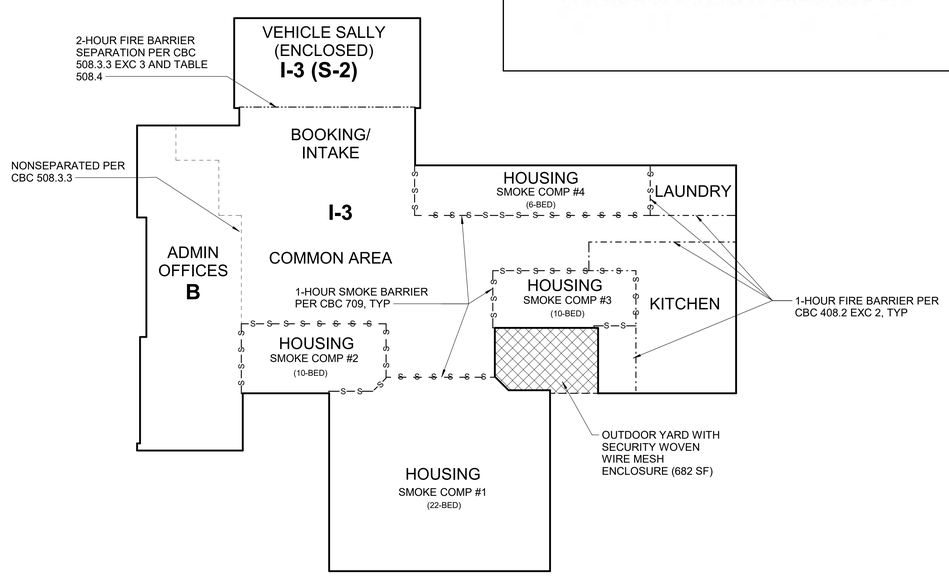
BUILDING ELEMENTS & LOCATION	CONFIGURATION	REQD FIRE-RESISTANCE RATING	UL DESIGN NUMBER OR OTHER TEST NUMBER	REFER SHEET OR CODE	REMARKS
1. PRIMARY AND SECONDARY STRUCTURAL FRAME					
STEEL BEAM	W STEEL BEAM - SIZE VARIES	2-HR 1-HR (WHERE SUPPORT ROOF ONLY)	UL # P732, D925 OR N782	GL502, GL507	
STEEL COLUMN	HSS STL COLUMN - SIZE VARIES	2-HR 1-HR (WHERE SUPPORT ROOF ONLY)	Y710, X795	GL503, GL504	
2. BEARING WALL					
EXTERIOR	12" INSULATED CMU (FULLY GROUTED) 12" OR 8" NON-INSULATED CMU (FULLY GROUTED)	2-HR	CBC TABLE 721.1(2) ITEM 3-1.4	GL507	
INTERIOR	FULLY GROUTED 8" CMU	2-HR 1-HR (WHERE SUPPORT ROOF ONLY)	CBC TABLE 721.1(2) ITEM 3-1.4	GL507	
3. NON-BEARING WALL					
INTERIOR	FULLY GROUTED 8" CMU / MTL STUD WALL	0-HR	-	-	
4. FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS					
FLOOR	N/A (SINGLE STORE)	N/A	-	-	
5. ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS					
ROOF	SINGLE-PLY MEMB O/ GLASS MAT-FACED COVER BD O/ RIGID INSUL O/ 18 GA STL DECK	1-HR	UL # P732	GL502	
	SINGLE-PLY MEMB O/ GLASS MAT-FACED COVER BD O/ RIGID INSUL O/ CONC FILLED STL DECK	1-HR	UL # D925	GL507	
6. MISC ITEMS					
CORRIDOR WALL, SMOKE BARRIER, OTHER FIRE BARRIERS	FULLY GROUTED 8" CMU	1-HR OR 2-HR REFER TO FIRE LIFE SAFETY FLOOR PLANS	CBC TABLE 721.1(2) ITEM 3-1.4	GL507	
	TYPE X GYP BD O/ MTL STUD		UL # U419	GL503	
HEADWALL SYSTEM	CMU WALL TO FLUTES OF STL DECK	NOT LESS THAN REQD WALL RATING	UL #HW-D-0415	GL505	
	CMU WALL NOTCHED AT BEAM		UL # HW-D-0248	GL505	
	CMU WALL BENEATH BEAM		UL # HW-D-0440	GL508	
	MTL STUD WALL TO FLUTES OF STL DECK		UL # HW-D-0042, HW-D-0264	GL504, GL505	
	MTL STUD WALL BEAM POCKET		UL # HW-D-0218	GL508	
BOTTOM WALL SYSTEM	MTL STUD WALL TO CONC FLOOR		UL # BW-S-0002	GL504	
PENETRATION SYSTEM	MTL PIPE PENETRATION	NOT LESS THAN REQD RATING OF WALL PENETRATED	VARIES	REFER TO MECHANICAL, PLUMBING, ELECTRICAL AND SECURITY ELECTRONICS DRAWINGS	
	PVC PIPE PENETRATION				
	CABLE TRAY PENETRATION				
	MULTI PIPE PENETRATION				

BUILDING GROSS AREA

BUILDING GROSS AREA

BUILDING USE	OCCUPANCY	FLOOR AREA
ADMIN AND VISITING	B	3,094 SF
		3,094 SF
COMMON AREA	I-3	9,382 SF
HOUSING UNIT 1	I-3	4,413 SF
HOUSING UNIT 2	I-3	1,069 SF
HOUSING UNIT 3	I-3	863 SF
HOUSING UNIT 4	I-3	1,233 SF
		16,961 SF
VEHICLE SALLY (ENCLOSED)	S-2	1,760 SF
		1,760 SF
TOTAL		21,815 SF

OCCUPANCY KEY PLAN



EGRESS ANALYSIS

MONO COUNTY NEW JAIL

EVACUATION AND EGRESS TIME FOR SMOKE COMPARTMENTS #1 TO #3

Smoke Compartment #1 consists of (2) 11-Bed Housing Pods with single or double-occupancy cells; Smoke Compartment #2 and #3 each consists of (1) 10 Bed dormitory housing pod.

The following summarizes egress and evacuation information discussed with Sheriff's Office of the Mono County Jail for the new jail.

- The Facility will house medium and maxium security level inmates in Housing Pods with single or double-occupancy cells. During an emergency egress situation, no leg shackling of inmates will occur.
- The Facility will house minimum to medium security level inmates in dormitory style housing units. Because of the classification, the inmates will not require shackles in the event of evacuation.
- Each of the Pods have direct exit to the exterior with minimal travel distance and analysis will be for the longest travel distance to corridor.
- The housing is indirect supervision with a correctional officer stationed at central control area with direct sightlines to pods. This provides for early detection and constant observation.
- All doors utilized for egress/evacuation can be released remotely. At least 2 to 3 officers will respond. 2 is the minimum at lowest staffing time (night).
- In the event of emergency evacuation, first preference is to move inmates to an adjacent Housing Pod dayroom across the secure corridor though the smoke barrier wall. Moving through direct exit to an exterior safe dispersal area is the second option.

Travel speed (250 ft/ minute) and egress assumptions are based on the Society of Fire Protection Engineers (SFPE) 5th Edition.

11-Bed Housing Pods with single or double-occupancy cells (Smoke Compartment #1)

- 72 ft horizontal egress travel = 18 seconds
- 1-minute detection time based on smoke detection and alert in Dayroom
- 1-minute decision and door release time
- 11 inmates x 2 second interval time between inmates = 22 seconds
- 1-minute to evacuate up to 3 maximum level cells (50% of 6 cells) individually (30 seconds each cell x 2-officers)

Total = 3.7 minutes with a 50% safety factor = 5.6 minutes

10-Bed Dormitory Housing Pods (Smoke Compartment #2 or #3)

- 66 ft horizontal egress travel = 16 seconds
- 1-minute detection time based on smoke detection and alert in Dayroom
- 1-minute decision and door release time
- 10 inmates x 2 second interval time between inmates = 20 seconds

Total = 2.6 minutes with a 50% safety factor = 3.9 minutes

Project complies with CBC 408.9 Exception 1 and less than 6 minute evacuation time.

9. MEANS OF EGRESS (CBC CHAPTER 10):

CBC 1003.2, CBC 1003.3.1 — **CEILING HEIGHT:** NOT LESS THAN 8'-0" (EXC 9)
HEADROOM: MIN HEADROOM 80" (7'-6").
PROTRUDING OBJECTS EXTENDING DOWN FROM THE CEILING ARE PERMITTED TO REDUCE THE HEADROOM CLEARANCE TO 80 INCHES OVER A MAX OF 50% OF THE CEILING AREA OF THE MEANS OF EGRESS.

CBC 1004, TABLE 1004.5 — **OCCUPANT LOAD:** SEE LIFE SAFETY FLOOR PLANS GL111.
TOTAL OCCUPANTS = 198

CBC 1005.3.2 & CBC 1010.1.1 — **EXIT WIDTH:**
0.2 INCHES PER OCCUPANT AT DOORS, CORRIDORS, AND RAMPS.
MIN CLEAR DOOR WIDTH = 32"

CBC 1006.2.1, TABLE 1006.2.1 & FOOTNOTE h — **SPACE WITH ONE EXIT OR EXIT ACCESS DOORWAY** (WITH SPRINKLER SYSTEM):
1. MAX OCC LOAD OF SPACE = 10 (I-3 OCCUPANCY EXCEPT HOLDING PER EXC 4)
= 20 (I-3 HOLDING CELL PER 408.3.11)
= 49 (B OCCUPANCY)
2. MAX COMMON PATH OF EGRESS TRAVEL DISTANCE = 100 FEET (I-3 OR B)

CBC 1017, TABLE 1017.2 — **EXIT ACCESS TRAVEL DISTANCE** SHALL NOT EXCEED THE VALUES SHOWN IN TABLE 1017.2 (WITH SPRINKLER SYSTEM):
1. I-3 OCCUPANCY: 200 FEET
2. B OCCUPANCY: 300 FEET

CBC 1020, TABLE 1020.2 — **CORRIDORS** (WITH SPRINKLER SYSTEM) SHALL BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLE 1020.2. CORRIDOR WALLS REQUIRED TO BE FIRE-RESISTANCE RATED SHALL COMPLY WITH SECTION 708 FOR FIRE PARTITIONS.
I-3 OCCUPANCY: 1 HR
B OCCUPANCY: 0 HR (NOT REQUIRED)

CBC1020.4, EXC 1 — **DEAD END CORRIDOR:** 50 FEET (FOR I-3 CONDITION 4)

10. ACCESSIBILITY (CBC CHAPTER 11B):

CBC 11B-232.2.1 — **CELLS WITH MOBILITY FEATURES** - MINIMUM OF 3% OF TOTAL CELLS IN A FACILITY SHALL PROVIDE MOBILITY FEATURES COMPLYING WITH SECTION 11B-807.2.
HOUSING:
(14) CELLS X 3% = 0.42. (3) CELLS PROVIDED WITH MOBILITY FEATURES (1) PER POD.
(3) DORMS X 3% = 0.09 DORMS REQ'D, ALL (3) DORMS ON GROUND FLOOR PROVIDED WITH MOBILITY FEATURES.

CBC 11B-232.2.2 — CELLS WITH COMMUNICATION FEATURES - INMATE TELEPHONES (NIC) WILL BE PROVIDED BY OWNER IN EACH DAYROOM. THEY SHALL HAVE VOLUME CONTROLS COMPLYING WITH SECTION 11B-704.3.

CBC 11B-232.5 — VISITING AREAS. AT LEAST 5%, BUT NO FEWER THAN ONE, OF CUBICLES SHALL COMPLY WITH SEC 11B-902 AND 11B-904.4.2 ON BOTH VISITOR AND INMATE SIDES. TELEPHONE HANDSET DEVICES SHALL HAVE VOLUME CONTROLS COMPLY WITH SECTION 11B-704.3.
(3) NON-CONTACT VISITING CUBICLES X 5% = 0.15, ACTUAL 1 ACCESSIBLE CUBICLE PROVIDED.

11. FIRE FLOW — SEE SHEET GL101 LIFE SAFETY - SITE PLAN

12. FIXTURE COUNT — CPC CHAPTER 4 & CBC 1231 — MINIMUM PLUMBING FACILITIES REQUIRED FOR I-3 AREA (CPC TABLE 422.1)

I-3 INSTITUTIONAL OCCUPANCY (HOUSES MORE THAN 5 PEOPLE)	WATER CLOSETS (FIXTURES PER PERSON)	URINALS (FIXTURES PER PERSON)	LAVATORIES (FIXTURES PER PERSON)	SHOWER	DRINKING FOUNTAINS (FIXTURES PER PERSON)
CORRECTIONAL FACILITIES	1 PER 8***	-	1 PER 10	1 PER 20*	1 PER CELL/DORM**
EMPLOYEE	MALE FEMALE 1: 1-15 1: 1-15 2: 16-35 3: 16-35 3: 36-22 4: 36-55	-	MALE: 1 PER 40 FEMALE 1 PER 40	-	1 PER 150

* NUMBER OF SHOWER BASED ON CBC 1231.3.4 - 1 PER 20 INMATES
** NUMBER OF DRINKING FOUNTAINS BASED ON CBC 1231.3.3 - 1 PER DORM
*** 1:10 FOR DORM PER 1231.3.1 ITEM 2; 1:16 FOR TEMP HOLDING CELL PER 1231.3.1 ITEM 4; 1:8 FOR SOBERING CELL PER 1231.3.1 ITEM 5.

OCCUPANT LOAD FOR FIXTURE COUNT (CPC TABLE A)

AREA	FLOOR AREA / INMATES HOUSED	OCCUPANT LOAD FACTOR	OCCUPANT LOAD FOR FIXTURE COUNT	MALE TO FEMALE RATIO
HOUSING PODS 1 & 2	12 INMATES (6 CELLS)	N/A	12 EA POD	SAME SEX IN ONE POD
HOUSING PODS 3 & 4	10 INMATES (1 DORM)	N/A	10 EA POD	SAME SEX IN ONE POD
HOUSING POD 5	2 INMATES (2 CELLS)	N/A	2	SAME SEX IN ONE POD
HOUSING POD 6	4 INMATES (1 DORM)	N/A	4	SAME SEX IN ONE POD
COMMON AREA*	11,300 SF	200	57 (EMPLOYEE)	50:50

* COMMON AREA INCLUDES I-3, B & S-2 AREAS BUT EXCLUDES CORRIDOR/HALLWAY.

FIXTURE COUNT - HOUSING PODS 1 & 2 (FIXTURE COUNT BASED ON CELL)

FIXTURE ITEM	HOUSING	NUMBER OF FIXTURES REQUIRED BY CODE	NUMBER OF FIXTURES ACTUAL PROVIDED
WATER CLOSETS	EACH POD	6	6
URINALS	EACH POD	-	-
LAVATORIES	EACH POD	6	6
SHOWERS	EACH POD	1	1
DRINKING FOUNTAINS	EACH POD	6	6*

* BUBBLER PROVIDED AT EACH LAVATORY.

FIXTURE COUNT - HOUSING PODS 3 & 4 (FIXTURE COUNT BASED ON EACH DORM)

FIXTURE ITEM	HOUSING	NUMBER OF FIXTURES REQUIRED BY CODE	NUMBER OF FIXTURES ACTUAL PROVIDED
WATER CLOSETS	EACH POD	1	1
URINALS	EACH POD	-	-
LAVATORIES	EACH POD	1	1
SHOWERS	EACH POD	1	1
DRINKING FOUNTAINS	EACH POD	1	2

FIXTURE COUNT - HOUSING POD 5 (FIXTURE COUNT BASED ON CELL)

FIXTURE ITEM	HOUSING	NUMBER OF FIXTURES REQUIRED BY CODE	NUMBER OF FIXTURES ACTUAL PROVIDED
WATER CLOSETS	EACH POD	2	2
URINALS	EACH POD	-	-
LAVATORIES	EACH POD	2	2
SHOWERS	EACH POD	1	1
DRINKING FOUNTAINS	EACH POD	2	2*

* BUBBLER PROVIDED AT EACH LAVATORY.

FIXTURE COUNT - HOUSING POD 6 (FIXTURE COUNT BASED ON DORM)

FIXTURE ITEM	HOUSING	NUMBER OF FIXTURES REQUIRED BY CODE	NUMBER OF FIXTURES ACTUAL PROVIDED
WATER CLOSETS	EACH POD	1	1
URINALS	EACH POD	-	-
LAVATORIES	EACH POD	1	1
SHOWERS	EACH POD	1	1
DRINKING FOUNTAINS	EACH POD	1	1

FIXTURE COUNT - COMMON AREA

COMMON AREA	NUMBER OF FIXTURES REQUIRED BY CODE	NUMBER OF FIXTURES ACTUAL PROVIDED
SINGLE TOILET FACILITY	5	6 (EMPLOYEE) + 1 (INMATE)
DRINKING FOUNTAINS	WATER STATION SHALL BE PERMITTED TO BE SUBSTITUTED FOR DRINKING FOUNTAINS (CPC 415.2)	WATER STATION WILL BE PROVIDED AT BREAK ROOM. DRINKING FOUNTAIN PROVIDED IN LOBBY

CODE ANALYSIS

2022 CALIFORNIA BUILDING CODE (CBC)

1. BUILDING NAME AND PROJECT DESCRIPTION: MONO COUNTY JAIL
THIS PROJECT CONSISTS OF A NEW SINGLE STORY, 21,815 SQUARE FOOT DETENTION FACILITY (JAIL) AND ASSOCIATED SITE IMPROVEMENTS. THE BUILDING WILL INCLUDE SIX HOUSING UNITS (TOTAL OF 48 BSCC RATED BEDS PLUS 2 NON-RATED AD-SEG BEDS) FOR BOTH MEN AND WOMEN CONSISTING OF TWO (11) BED CELL UNITS, TWO (10) BED DORM UNITS, ONE (4) BED DORM UNIT, AND ONE (2) BED CELL UNIT. ALSO INCLUDED ARE PROGRAM SPACES, INTAKE AND PROCESSING, FOOD SERVICE AND LAUNDRY, AND ADMIN. SPACE FOR STAFF. THIS IS A TYPE II FACILITY AS DESCRIBED IN THE CALIFORNIA ADMINISTRATIVE CODE, CHAPTER 13.

2. GOVERNING CODES AND REGULATIONS: SEE COVER SHEET G-001

3. GOVERNING CODES AND REGULATIONS:

CBC 304 & CBC 308.4.4	B OCCUPANCY	STAFF ADMINISTRATION	AREA: 3,094 GSF
CBC 311.3	I-3 OCCUPANCY	TYPE II INSTITUTIONAL HOUSING, CONDITION 4	AREA: 16,961 GSF
	I-3 OCCUPANCY WITH S-2 USE	COVERED VEHICLE SALLYPORT	AREA: 1,760 GSF
			TOTAL AREA: 21,815 GSF

4. SPECIAL REQUIREMENTS (CBC CHAPTER 4):

CBC 408.1.2.2 - 1 — **INTERVENING SPACES:** COMMON ROOMS AND SPACES WITHIN GROUP I-3 OCCUPANCIES CAN BE CONSIDERED INTERVENING SPACE IN ACCORDANCE WITH SECTION 1016.2 AND NOT CONSIDERED A CORRIDOR, WHEN THEY MEET ANY OF FOLLOWING:
1. WITHIN PRISONS AND LOCAL DETENTION FACILITIES OF TYPE I CONSTRUCTION, THE EXIT ACCESS WITHIN A HOUSING UNIT MAY BE NON-RATED CORRIDOR PROVIDED THE REQUIRED EXIT OCCUPANT LOAD FROM ANY DAYROOM DOES NOT EXCEED 64 PERSONS. (APPLY TO DAYROOM IN HOUSING, 11 INMATES MAX)

CBC 408.2, EXC 2 — LAUNDRY AND KITCHEN:
SEPARATED FROM THE REMAINDER OF THE BUILDING BY CONSTRUCTION CAPABLE OF RESISTING THE PASSAGE OF SMOKE.
(PROJECT PROVIDED 1-HR FIRE BARRIER, **COMPLIES**)

CBC 408.6 — **SMOKE BARRIER:** GROUP I-3 SHALL HAVE SMOKE BARRIERS TO DIVIDE EVERY STORY OCCUPIED BY RESIDENTS FOR SLEEPING INTO NO FEWER THAN TWO SMOKE COMPARTMENTS.
EXCEPTION: SPACES HAVING A DIRECT EXIT TO ONE OF THE FOLLOWING, PROVIDED THAT THE LOCKING ARRANGEMENT OF THE DOORS INVOLVED COMPLIES WITH THE REQUIREMENTS FOR DOORS AT THE SMOKE BARRIER FOR THE USE CONDITION INVOLVED:
3. A SECURED YARD OR COURT HAVING A HOLDING SPACE 50 FEET FROM THE HOUSING AREA THAT PROVIDES 6 SQUARE FEET OR MORE OF REFUGE AREA PER OCCUPANT, INCLUDING RESIDENTS, STAFF AND VISITORS.

CBC 408.6.1 — **SMOKE COMPARTMENTS:**
1. NUMBER OF RESIDENTS IN ANY SMOKE COMPARTMENT SHALL BE NOT MORE THAN 200.
2. TRAVEL DISTANCE TO A DOOR IN A SMOKE BARRIER FROM ANY ROOM DOOR REQUIRED AS EXIT ACCESS SHALL BE NOT GREATER THAN 150 FEET.
3. TRAVEL DISTANCE TO A DOOR IN A SMOKE BARRIER FROM ANY POINT IN A ROOM SHALL NOT BE GREATER THAN 200 FEET.

CBC 408.6.2 — **REFUGE AREA:** NOT LESS THAN 6 NET SQUARE FEET PER OCCUPANT SHALL BE PROVIDED ON EACH SIDE OF EACH BARRIER FOR THE TOTAL NUMBER OF OCCUPANTS IN ADJOINING SMOKE COMPARTMENTS.

CBC 408.9 & 408.9.1 EXC 1 — **WINDOWLESS BUILDINGS:** SMOKE VENTING FOR SMOKE COMPARTMENTS 1 TO 3 IS NOT REQUIRED PER SECTION 408.9.1 EXC 1 SINCE THE BUILDING MEETS EACH OF THE FOLLOWING CRITERIA:
1.1 ARE TYPE I-A OR I-B CONSTRUCTION **(PROJECT COMPLIES)**
1.2 ARE PROTECTED WITH SPRINKLERS THROUGHOUT IN ACCORDANCE WITH SECTION 903.3.1.1 **(PROJECT COMPLIES)**
1.3 INCLUDE A FIRE ALARM SYSTEM WITH SMOKE DETECTION IN ACCORDANCE WITH NFPA 72 IN THE DAYROOMS AND/OR CORRIDOR SERVING AS EXIT ACCESS FROM THE CELLS, REPORTING TO A 24 HOUR CENTRAL CONTROL AT THE INSTITUTION. **(PROJECT COMPLIES)**
1.4 INCLUDE AT LEAST ONE EXIT FROM EACH HOUSING UNIT DIRECT TO THE EXTERIOR WHERE SMOKE WILL NOT ACCUMULATE OR TO THE EXTERIOR THROUGH A 1-HOUR-RATED CORRIDOR SERVING ONLY THAT UNIT. **(PROJECT COMPLIES)**
1.5 THE BUILDING IS DIVIDED INTO AT LEAST TWO SMOKE COMPARTMENTS PER SECTION 408.6.1. **(PROJECT COMPLIES)**
1.6 AS APPROVED BY THE ENFORCING AGENCY, AN EGRESS ANALYSIS SHOWS THAT INMATES CAN BE EVACUATED WITHIN 6 MINUTES FROM THE SMOKE COMPARTMENT OF ORIGIN 24 HOURS PER DAY OR WHEN INMATES ARE PRESENT. **(SEE EGRESS ANALYSIS FOR SMOKE COMPARTMENTS 1, 2 AND 3 ON THIS SHEET, PROJECT COMPLIES)**

SMOKE COMPARTMENT #4: PROVIDED TOTAL (3) OPERABLE WINDOWS TO COMPLY WITH CBC 408.9 TO ACCOMMODATE HOUSING PORTION AND WINDOWLESS BUILDING. (**PROJECT COMPLIES**)

CBC 408.10 — **FIRE ALARM SYSTEM:** SHALL PROVIDE IN ACCORDANCE WITH SECTION 907.2.6.3

CBC 408.11 — **AUTOMATIC FIRE SPRINKLER SYSTEM:** SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.2.6

CBC 408.13 — **WINDOWS:** IN SECURITY AREAS WITHIN CELL COMPLEXES SPRINKLERED THROUGHOUT, THE AREA OF GLAZING IN ONE-HOUR CORRIDOR WALLS AND SMOKE BARRIER WALLS SHALL NOT BE RESTRICTED, PROVIDED:
2. FIXED SECURITY GLAZING SET IN NONCOMBUSTIBLE FRAMES, SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF ONE OF THE FOLLOWING TEST STANDARDS: ASTM F1233-98, CLASS III GLASS, OR; CALFORNIA DEPARTMENT OF CORRECTIONS, CDCR APPENDIX H, OR H.P. WHITE LABORATORY, INC., HPW-TP-0500.02, FORCED ENTRY LEVEL III.
3. IN LIEU OF THE SIZES SET FORTH IN CBC, THE SIZE AND AREA OF GLAZED ASSEMBLIES SHALL CONFORM TO THE FOLLOWING: WINDOWS PROTECTED BY FIXED SECURITY GLAZING, AS DELINEATED IN ITEM 2 ABOVE, MAY HAVE AN AREA NOT GREATER THAN 84 SQUARE FEET WITH NEITHER WIDTH NOR HEIGHT EXCEEDING 12 FEET.

5. GENERAL BUILDING HEIGHTS AND AREAS (CBC CHAPTER 5):

FOR CONSTRUCTION TYPE I-B AND GROUP I-3 (MOST RESTRICTIVE)

TABLE 504.3 — ALLOWABLE BUILDING HEIGHT: 160 FEET (FOR I-3, MOST RESTRICTIVE)
ACTUAL BUILDING HEIGHT: 21'-4"

TABLE 504.4 — ALLOWABLE NUMBER OF STORIES: 2 (FOR I-3, MOST RESTRICTIVE)
ACTUAL NUMBER OF STORIES: 1

TABLE 506.2 — ALLOWABLE AREA FACTOR (At): At = S1 = 45,300 SF (FOR I-3, MOST RESTRICTIVE)
ALLOWABLE AREA Aa=At+(NSxI_f) Aa = At + (NS x 0) = At = 45,300 SF
NS = 15,100 SF
I_f = FRONTAGE INCREASE FACTOR (NOT USED)

ACTUAL BUILDING AREA: 21,815 SF < 45,300 SF **(COMPLIES)**

CBC 508.3 — NONSEPARATED OCCUPANCIES:
NONSEPARATED OCCUPANCIES SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 302.1. THE REQUIREMENTS OF THIS CODE SHALL APPLY TO EACH PORTION OF THE BUILDING BASED ON THE OCCUPANCY CLASSIFICATION OF THAT SPACE. IN ADDITION, THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 5 THAT APPLY TO THE NONSEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NONSEPARATED OCCUPANCY AREA.
- PORTION OF BUILDING (VISITING AND ADMINISTRATION) CLASSIFIED AS B OCCUPANCY. NO SEPARATION IS REQUIRED PER 508.3.3.
- SEE OCCUPANCY KEYPLAN ON THIS SHEET AND NOTE THAT A SEPARATION IS BEING PROVIDED BETWEEN I-3 OCCUPANCY AND VEHICLE SALLYPORT PER 508.3.3 EXC 3.
- KITCHEN/LAUNDRY SEPARATION IS BEING PROVIDED PER 408.2 EXC 2.

TABLE 509 CEC — INCIDENTAL USES (OTHER SEPARATIONS):
1. ELECTRICAL ROOM: DRY TYPE TRANSFORMER > 112.5 KVA: 1 HR SEPARATION.
DRY TYPE TRANSFORMER <= 112.5 KVA: NOT REQ'D.

CFC 1207 — 2. MDF, SECURITY ELEC ROOM: BATTERIES IN EACH ROOM BELOW THRESHOLD QUANTITIES TABLE 1207.1.1 OF 2022 CFC. SEPARATION NOT REQ'D.

6. TYPE OF CONSTRUCTION (CBC CHAPTER 6): TABLE 601 — TYPE I-B

BUILDING ELEMENT		FIRE-RESISTANCE RATING
PRIMARY STRUCTURAL FRAME:		2 HR *
SECONDARY STRUCTURAL FRAME:		2 HR *
BEARING WALLS:	EXTERIOR:	2 HR
	INTERIOR:	2 HR *
NON-BEARING WALLS AND PARTITIONS, EXTERIOR: (TABLE 705.5, BASED ON FIRE SEPARATION DISTANCE X)	X > 30 FT	0
	10 FT <= X < 30 FT	1 HR
	5 FT <= X < 10 FT	1 HR
	X < 5 FT	1 HR
NON-BEARING WALLS AND PARTITIONS, INTERIOR:		0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS (CBC SEC 202):		N/A (SINGLE STORY)
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS (CBC SEC 202):		1 HR

* ROOF SUPPORTS: FIRE-RESISTANCE RATINGS OF PRIMARY STRUCTURAL FRAME AND BEARING WALLS ARE PERMITTED TO BE REDUCED BY 1 HOUR WHERE SUPPORTING A ROOF ONLY PER FOOTNOTE a.

7. FIRE AND SMOKE PROTECTION (CBC CHAPTER 7): TABLE 705.8 — **DEGREE OF OPENING PROTECTION / MAXIMUM AREA OF EXTERIOR WALL OPENINGS:** UNPROTECTED, SPRINKLERED (UP, S)

FIRE SEPARATION DISTANCE (FEET)	MAXIMUM AREA OF EXTERIOR WALL OPENINGS
20 OR GREATER	NO LIMIT

8. FIRE PROTECTION SYSTEMS (CBC CHAPTER 9):

NOTE: MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 FOR I-3 APPLIED TO NONSEPARATED B AREA PER 508.3.1

CBC 903.2.6.2, NFPA 13 — **FIRE SPRINKLERS:** AUTOMATIC WET SPRINKLER SYSTEM (FULLY SPRINKLERED) AND SUPERVISION SYSTEM PROVIDED.

CBC 905.3.10 — **STANDPIPE SYSTEM:** NOT REQUIRED DUE TO INMATES IN EACH HOUSING POD IS LESS THAN 50.

CBC 907.2.6.3 — **FIRE ALARM:** MANUAL FIRE ALARM SYSTEM AND AUTOMATIC SMOKE DETECTION SYSTEM REQUIRED. AUDIBLE ALARMS. FIRE PROTECTION SIGNALING SYSTEM, AND AUTOMATIC FIRE DETECTION SYSTEM PROVIDED.

CBC/CFC 904, NFPA 17A — **OTHER FIRE PROTECTION SYSTEM:** KITCHEN HOOD AND DUCT SYSTEM.

DRAFT

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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
CODE ANALYSIS

SHEET
GL110

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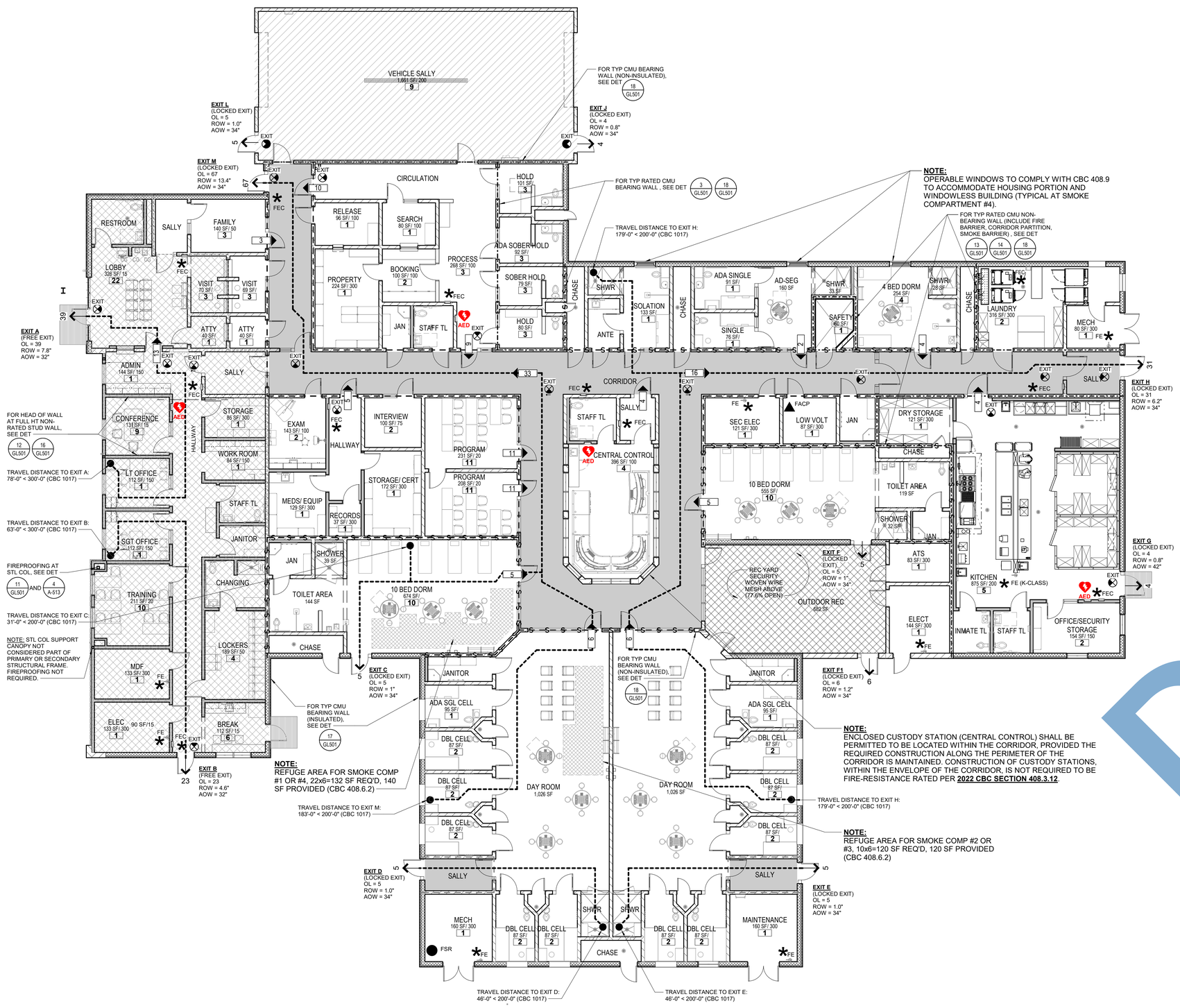


1 LIFE SAFETY FLOOR PLAN
1/8" = 1'-0"

NORTH

FIRE LIFE SAFETY NOTES

1. APPROVAL OF THE AUTOMATIC FIRE ALARM SYSTEM AND THE AUTOMATIC FIRE SPRINKLER SYSTEM BY THE CALIFORNIA STATE FIRE MARSHAL IS DEFERRED. SHOP DRAWINGS FOR THESE SYSTEMS MUST BE SUBMITTED TO THE CALIFORNIA STATE FIRE MARSHAL AND THE BOARD OF STATE AND COMMUNITY CORRECTIONS, FOR APPROVAL PRIOR TO INSTALLATION
2. THE ENTIRE BUILDING SHALL BE PROTECTED BY AN AUTOMATIC FIRE SPRINKLER SYSTEM PER CBC 903.2.6.2 THE SYSTEM SHALL CONFORM TO THE 2016 EDITION OF NFPA 13 (CA AMENDED).
3. THE FIRE AND LIFE SAFETY REVIEW AND APPROVAL OF THIS PROJECT BY THE CALIFORNIA STATE FIRE MARSHAL INCLUDES THE BUILDING AND ITS EXITING SYSTEM, THE FIRE APPARATUS ACCESS ROADS, GATES IN PERIMETER FENCES, LOCATION OF FIRE HYDRANTS, FIRE DEPARTMENT PUMPER CONNECTIONS, AND FIRE PROTECTION DURING CONSTRUCTION.
4. INSTALLATION OF THE FIRE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS (INCLUDING WATER SUPPLY INFORMATION) HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL AT THE BOARD OF STATE AND COMMUNITY CORRECTIONS STANDARDS AUTHORITY.
5. THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE ARTICLE 760, CALIFORNIA FIRE CODE SECTION 907, AND THE 2016 EDITION OF NFPA 72 (CA AMENDED). INSTALLATION OF THE SYSTEM SHALL NOT BEGIN UNTIL PLANS AND SPECIFICATIONS INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT, HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL. AT VARIOUS STAGES AND UPON COMPLETION OF THE INSTALLATION, TESTS OF THE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE CALIFORNIA STATE FIRE MARSHAL AND THE BOARD OF STATE AND COMMUNITY CORRECTIONS.
6. PENETRATION OF FIRE RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE APPROVED MATERIAL AS PRESCRIBED IN 2022 CALIFORNIA REFERENCED ASTM E814 OR UL 1479 AND MEET EVERY PARTICULAR OF THEIR LISTING NUMBER IDENTIFIED.

LEGEND - FIRE LIFE SAFETY

USE → NAME
SQUARE FOOTAGE → 150 SF/ 20
OCCUPANT LOAD → 8
OCCUPANT LOAD FACTOR

NONSEPARATED B OCCUPANCY

SEPARATED VEHICLE SALLY PORT I-3 OCCUPANCY WITH S-2 USE

1-HR FIRE-RESISTIVE EXIT CORRIDOR (PER CBC 408.13 AREA OF GLAZING SHALL NOT BE RESTRICTED.)

2 HR FIRE BARRIER WALL (CBC 707), 90-MIN DOOR OPENING PROTECTION, 120-MIN SIDELITE/TRANSOM ASSEMBLY, 120-MIN WINDOW

1 HR FIRE BARRIER WALL (CBC 707), 45-MIN DOOR OPENING PROTECTION, 45-MIN SIDELITE/TRANSOM ASSEMBLY, 45-MIN WINDOW

1 HR FIRE PARTITION (CBC 708), 20-MIN DOOR OPENING PROTECTION, 45-MIN SIDELITE/TRANSOM ASSEMBLY, 45-MIN WINDOW

1 HR SMOKE BARRIER (CBC709), 20-MIN DOOR OPENING PROTECTION, 45-MIN SIDELITE/TRANSOM ASSEMBLY, 45-MIN WINDOW

FSR FIRE SPRINKLER RISER

FACP FIRE ALARM CONTROL PANEL

FT MAXIMUM PATH OF TRAVEL WITH DISTANCE INDICATED

ROOM OR AREA MAXIMUM DIAGONAL DIMENSION

OL OCCUPANCY LOAD

ROW REQUIRED OPENING WIDTH

AOW ACTUAL OPENING WIDTH

30 EXIT OR EXIT ACCESS DOORWAY LOCATION AND NUMBER OF OCCUPANTS USING EXIT OR EXIT ACCESS DOORWAY

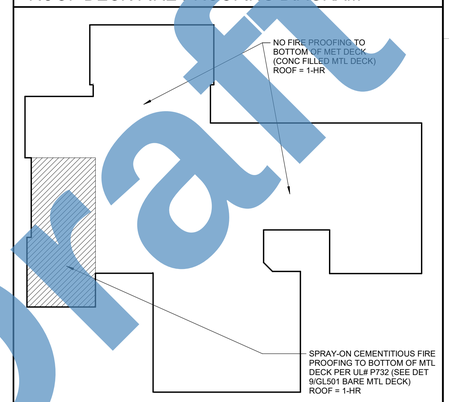
11 OCCUPANT LOAD

FEC FIRE EXTINGUISHER CABINET

EXIT CEILING OR WALL MOUNTED "EXIT" SIGNS W/ DIRECTIONAL ARROWS WHERE SHOWN (REFER TO CEILING PLANS AND ELEC DWGS FOR COMPLETE EXIT SIGNAGE LOCATIONS AND ADDL INFORMATION)

AED AUTOMATIC EXTERNAL DEFIBRILLATOR

ROOF DECK FIRE PROOFING DIAGRAM



NOTE: PROVIDE FIRE PROOFING TO ROOF FRAME PER UL # P732 (SEE DET 9/GL501 FOR BARE MTL DECK) AND UL # D925 OR UL# N784 (SEE DET 5/GL501 FOR CONC FILLED MTL DECK).

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TITLE
LIFE SAFETY FLOOR PLAN

SHEET
GL111
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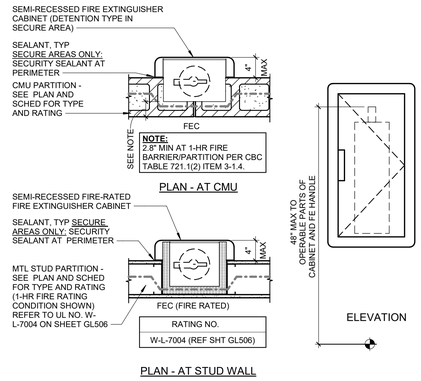
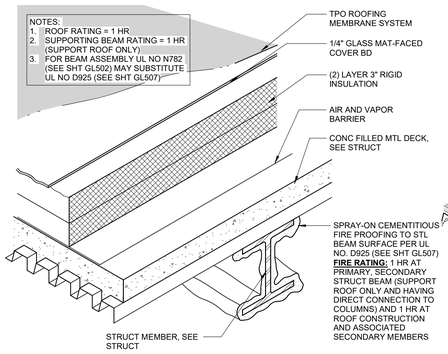
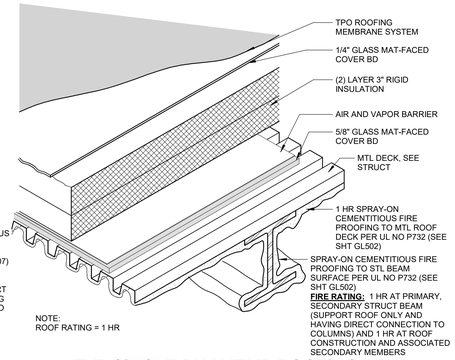


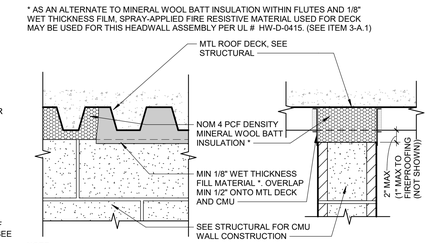
1 FEC - SEMI-RECESSED - 1-HR
1" = 1'-0"
FEC - SEMI-RECESSED



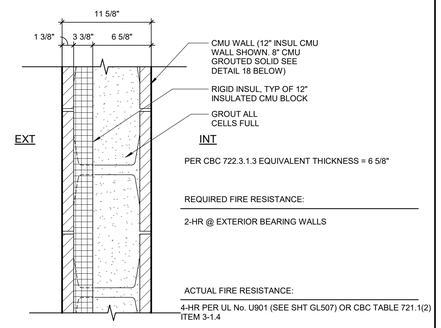
5 TYP SINGLE-PLY MEMB ROOFING AT CONC FILLED MTL DECK
NO SCALE
Q1



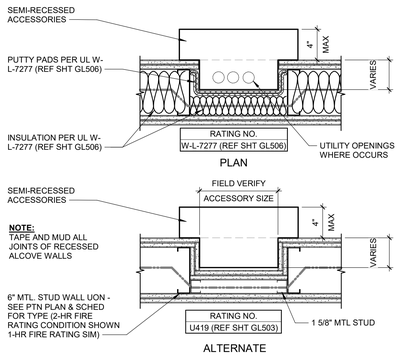
9 TYP SINGLE-PLY MEMB ROOFING AT BARE MTL DECK
NO SCALE
Q1



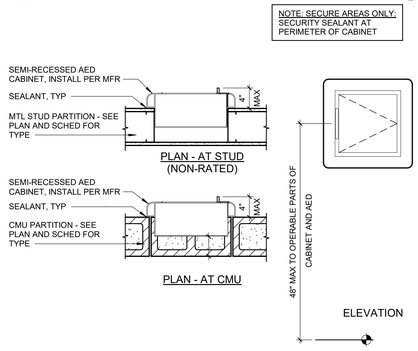
13 HEAD - CMU PERPENDICULAR TO FLUTES (RATED) NON-BEARING
1 1/2" = 1'-0"
?DRS TRACKING NUMBER? ?YYMMDD?. Q1



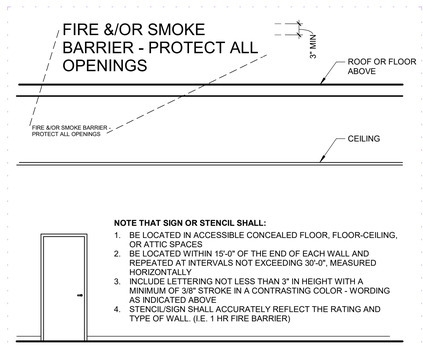
17 EXTERIOR BEARING WALL
1 1/2" = 1'-0"
Q1



2 SEMI-RECESSED ACCESSORIES IN RATED PARTITION
1 1/2" = 1'-0"
SEMI-RECESSED ACCESSORIES



6 AED - SEMI-RECESS CABINET
1" = 1'-0"



10 STENCIL/SIGN FOR FIRE AND SMOKE BARRIER WALLS
1/4" = 1'-0"
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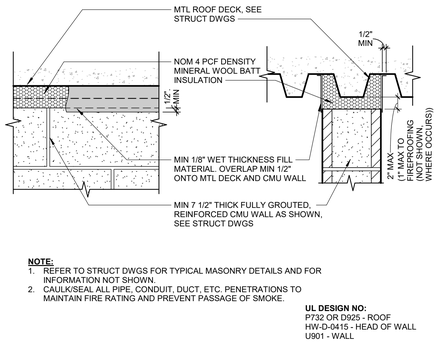
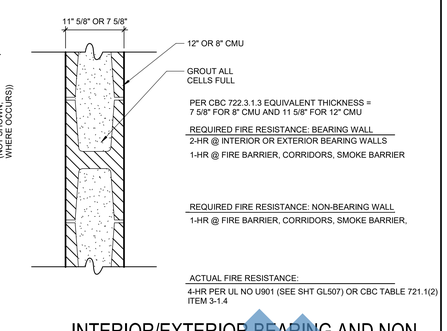
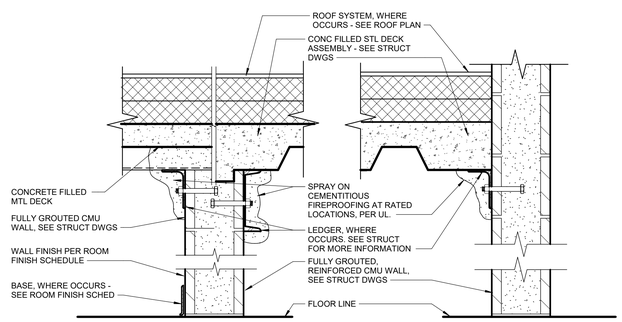
150811.Q1



14 HEAD - CMU PARALLEL TO FLUTES (RATED) NON-BEARING
1 1/2" = 1'-0"
160201.Q1

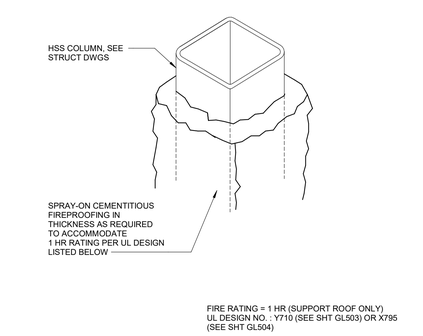


18 INTERIOR/EXTERIOR BEARING AND NON BEARING WALL
1 1/2" = 1'-0"
Q1



ELEMENTS	UL NO	REF SHT
FLR/ROOF	D925	GL507
WALL	U901	GL507

3 HEAD - CMU AT MTL DECK (RATED INT/EXT) BEARING
1 1/2" = 1'-0"
?DRS TRACKING NUMBER? ?YYMMDD?. Q1



11 RATED HSS COLUMN
3" = 1'-0"
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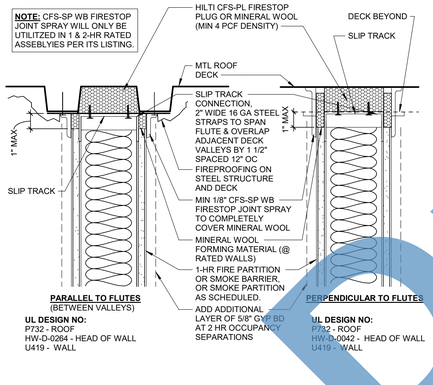
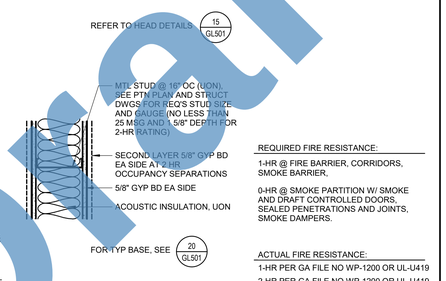
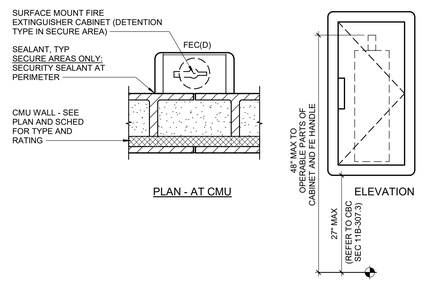


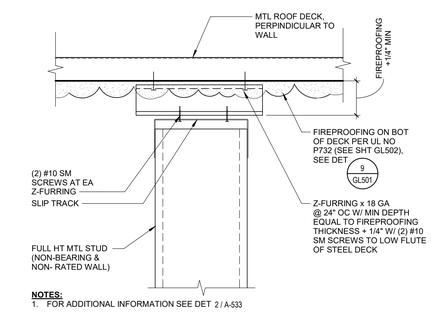
15 HEAD @ FULL HT RATED WALL
3" = 1'-0"
Q1



19 TYP RATED METAL STUD PARTITION
1 1/2" = 1'-0"
Q1



4 FEC - SURFACE MOUNT
1" = 1'-0"
FEC - SURFACE MOUNT



12 HEAD @ FULL HT NON-RATED WALL
3" = 1'-0"
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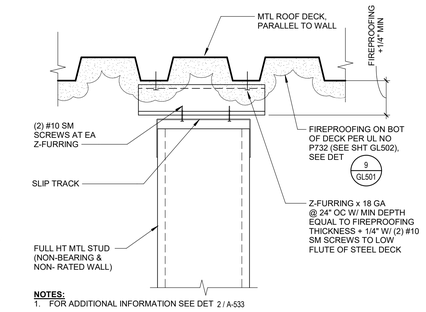

16 HEAD @ FULL HT NON-RATED WALL
3" = 1'-0"
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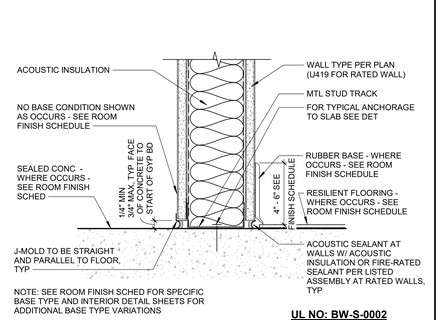

20 BASE - MTL STUD AT CONC SLAB
3" = 1'-0"
Q1

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STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE
LIFE SAFETY DETAILS

SHEET
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UL DESIGN NO N782

Design No. N782

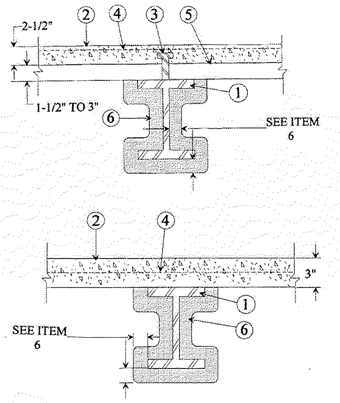
October 12, 2017

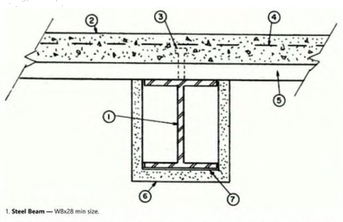
Restrained Beam Ratings — 1, 1-1/2, 2, 3 and 4 Hr

Unrestrained Beam Ratings — 1, 1-1/2, 2, 3 and 4 Hr

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**





1. **Steel Beam** — W8x28 min size.

2. **Normal Weight or Lightweight Concrete** — Compressive strength, 3000 psi. For normal weight concrete either carbonate or siliceous aggregate may be used. Unit weight, 148 pcf. For lightweight concrete unit weight 110 pcf.

3. **Shear Connector** — (Optional) — Studs, 3/4 in. diam headed type or equivalent per AISC specifications. Welded to the top flange of beam through the steel floor units.

4. **Welded Wire Fabric** — (Optional) — 6x6–10/10 SWG.

5. **Steel Floor and Form Units*** — 1-1/2 to 3 in. deep fluted units welded to beam.

6. **Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in more than one coat to the beam to the final thicknesses shown below. When fluted or corrugated steel floor units are used, crest areas shall be filled with Spray-Applied Fire Resistive Materials above the beam. Beam surfaces must be clean and free of dirt, loose scale and oil. Min average and min ind. density of 15/14 pcf respectively. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106/HY , Z-106/IG. Min avg and min ind density of 40/36 pcf respectively for Types AV650, Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types AV800, Z-156, Z-156T and Z-156PC. For method of density determination, see Design Information Section.
The thickness of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units with lightweight concrete.

Min Thkns In.

Rating Hr	Restrained Beam	Unrestrained Beam
1	5/16	5/16
1-1/2	7/16	5/16
2	11/16	7/8
3	1-3/16	1-5/16
4	1-5/8	1-5/8

The thickness of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by one-half and the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units with lightweight concrete.

Min Thkns In.

Rating Hr	Restrained Beam	Unrestrained Beam
1	5/16	5/16
1-1/2	3/8	9/16
2	9/16	13/16
3	1	1-1/4
4	1-7/16	1-5/8

The thickness of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by one-half and the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units with normal weight concrete.

Min Thkns In.

Rating Hr	Restrained Beam	Unrestrained Beam
1	7/16+	7/16+
1-1/2	7/16+	11/16
2	11/16	15/16
3	1-3/16	1-3/8
4	1-11/16	1-15/16

+ Thickness applied to beams' lower flange edges shall be a min of 1/4 in.

The thickness of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by one-half and the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units with normal weight concrete.

Min Thkns In.

Rating Hr	Restrained Beam	Unrestrained Beam
1	3/8	3/8
1-1/2	3/8	5/8
2	9/16	7/8
3	1	1-7/16
4	1-7/16	1-15/16

ARABIAN VERMICULITE INDUSTRIES — Types MK-6/HY, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-1000/HB, MK-1000/HB Extended Set, Z-106, Z-106/HY, Z-146 investigated for exterior use. Types AV650 and AV800 investigated for external use.

GCP KOREA INC — Types MK-6/HY, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-1000/HB, MK-1000/HB Extended Set, Z-106, Z-106/IG, Z-106/HY, Z-146 investigated for exterior use.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-1000/HB, MK-1000/HB Extended Set, RG, Z-106, Z-106/IG, Z-106/HY, Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC investigated for exterior use.

6A. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in more than one coat to the beam to the final thicknesses shown below. When fluted steel floor units are used, crest areas shall be filled with Spray-Applied Fire Resistive Materials above the beam. Beam surfaces must be clean and free of dirt, loose scale and oil. Min average and min ind. density of 22/20 pcf respectively. For method of density determination, see Design Information Section.
The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units with lightweight concrete.

Min Thkns In.

Rating Hr	Restrained Beam	Unrestrained Beam
1	5/16	5/16
1-1/2	7/16	9/16
2	5/8	13/16
3	1-1/16	1-1/4
4	1-5/8	1-5/8

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units with normal weight concrete.

Min Thkns In.

Rating Hr	Restrained Beam	Unrestrained Beam
1	5/16	5/16
1-1/2	3/8	9/16
2	9/16	13/16
3	1	1-1/4
4	1-7/16	1-5/8

The thickness of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced by one-half and the beams are supporting solid concrete slabs or floor assemblies containing only fluted floor or form units with lightweight concrete.

Min Thkns In.

Rating Hr	Restrained Beam	Unrestrained Beam
1	3/8	3/8
1-1/2	3/8	5/8
2	9/16	7/8
3	1	1-7/16
4	1-7/16	1-15/16

GCP KOREA INC — Type Z-106/HY

GCP APPLIED TECHNOLOGIES INC — Z-106/HY

7. **Metal Lath —** (Optional for contour applications, required for bowed application) - 3.4 lb/sq yd expanded steel. May be tied to lath hangers with No. 18 SWG steel wire spaced 6 in. OC max, or fastened directly to the steel with welds, screws, or powder actuated fasteners

8. **Lath Hangers —** (To be used with Item 7) — No. 6 SWG steel wire, spaced 27 in. OC max.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2017-10-12

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UL DESIGN NO P732

Design No. P732
Restrained Assembly Ratings — 1, 1-1/2, 2 or 3 Hr (See Item 10)
Unrestrained Beam Ratings — 1, 1-1/2, 2 or 3 Hr (See Item 10)
Unrestrained Beam Ratings — 1, 1-1/2, 2 or 3 Hr (See Item 10)
Restricted Load Condition — See Items 1 and 10C
Load Restricted for Canadian Applications — See Guide BXUV7

1. **Beam** — Min W6x15 or W8x28 or Steel Joist — 10K1 or 16K2 min size with a max tensile stress of 30,000 psi or 12K3 or 12K5 min size with a max tensile stress of 20,000 psi.
2. **Roof Covering*** — Consisting of hot mopped or cold application bituminous materials compatible with the insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory — Roof Covering Materials (TEST).
2A. **In lieu of Item 2, roof covering consisting of single ply Roofing Membrane*** — that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Fire Resistance Directory — Roof Membrane (CWUZ).
2B. **Metal Roof Deck Panels*** — (Not shown) — In addition to or in lieu of Item 2 or 2A, the roof covering may consist of a mechanically fastened metal roof deck panel assembly. See Fire Resistance Directory — Metal Roof Deck Panels (CETR).
3. **Roof Insulation — Foamed Plastic** — Polyisocyanurate foamed plastic insulation boards nom 4ft by 4ft or 96 in., to be applied in one or more layers with or without foil faced kraft paper laminated with cut joints staggered a min of 6 in. Min thickness shall be selected from the Table below. No limit on max overall thickness.

Restrained or Unrestrained Assembly Rating Hr	Min Insulation Thkns In. With Gypsum Wallboard	Without Gypsum Wallboard
1	1	1
1-1/2	1-1/2	1
2	2	1-1/2
3	2	3

ATLAS ROOFING CORP — Type ACfoam II, ACfoam III, ACfoam II SL, ACfoam IV.
DOW CHEMICAL COMPANY OF AMERICA.
DRA GAF — EnergyGuard 501, EnergyGuard 601 Coloured RH
BUILDING MATERIALS CORP OF AMERICA.
DRA GAF — Sustiform R.
CARLISLE SYNTEC INCORPORATED — Types HP, HP-H, HP-S, HP-W.
DOW ROOFING SYSTEMS L L C — "Dow Termiso Polyisocyanurate Insulation", "Dow Termiso ISO 3000 Insulation", "Dow ISO Insulation".
FIRESTONE BUILDING PRODUCTS CO L L C — "ISO 95+ CLV", "ISO 95+ FR", "ISO 95+ GW", "ISO 300", "ISO 95+ CAN".
"ISOGARD HD Composite Board" or "ISOGARD".
GENFLEX ROOFING SYSTEMS L L C — "GenFlex ISO".
HUNTER PANELS – H Shield
JOHNS MANVILLE – ENRGY 3 25 psi, ENRGY 3 Tapered ENRGY 3 Tapered ENRGY 3 25 psi, ENRGY 3 AGF Tapered ENRGY 3 AGF, ENRGY 3 CGF Tapered ENRGY 3 CGF, ENRGY 3 25 psi AGF, ENRGY 3 CGF, ENRGY 3 25 psi CGF, ISO-3, Tapered ISO-3, ValueTherm, Tapered ValueTherm, ValueTherm 25 psi, Tapered ValueTherm 25 psi, ValueTherm AGF, Tapered ValueTherm AGF, ValueTherm 25 psi AGF, Tapered ValueTherm 25 psi AGF, ValueTherm CGF, Tapered ValueTherm CGF, ValueTherm 25 psi CGF, Tapered ValueTherm 25 psi CGF
LOADMASTER SYSTEMS INC — Type Loadmaster polyisocyanurate insulation.
MAXI-GAF — Maxi-Mix, Maxi-Mix Tapered, Maxi-Mix AGF, Maxi-Mix CGF, Maxi-Mix Ultra Max Plus, Tapered Ultra Max Plus, Tapered Thermaroof 1, Tapered Thermaroof FA-3, Tapered Ultra Max.
SIKA SARNAFIL INC — Sarnatherm i, Sarnatherm i Ultra, Sarnatherm i Tapered, Sarnatherm i Ultra Tapered.
SOPREMA INC — Sopra-ISO 5, Sopra-ISO 5 Tapered, Sopra-ISO+ 5, Sopra-ISO+ 5 Tapered, Sopra-ISO HI+ 5, Sopra-ISO HI+ 5 Tapered.

3A. **Building Units*** — Not Shown — As an alternate to Item 3, composite polyisocyanurate foamed plastic insulation board with an adhered backing surface, nom 4ft by 8ft or 96 in. may be used with the following limitations. These composite building units form an insulation air interstitial to the panels. The thickness of the panel depends upon the thinnest portion of the polyisocyanurate insulation. The following dimensions apply to the polyisocyanurate insulation, min thickness is as measured in accordance with Item 3. There is no limit on the max insulation thickness.
JOHNS MANVILLE — Type ISO-VENT.

3B. **Building Units*** — Polyisocyanurate foamed plastic insulation boards, nom 4ft by 4ft or 96 in., faced on the top surface with ori-

ented strand board or plywood. Min thickness of the polyisocyanurate core is 1.3 in. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows. Adhesive (Item 6) may be applied between the building units and the vapor retarder for gypsum wallboard if vapor retarder is not used.
FIRESTONE BUILDING PRODUCTS CO L L C — "Solid Sheet".
SOPREMA INC – Sopra-ISO CY s.
3C. **Roof Insulation-Mineral and Fiber Boards*** — (Not Shown) — Optional. Applied in one or more layers over the Foamed Plastic (Item 3) to be applied with adhesive (Item 6), asphalt or coal tar pitch (Item 7) or mechanically fastened (Item 8). Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
ROOFS, INC – Mineboard™, Mineboard™ Plus, "Mineboard Plus 5", TopRock®DD, TopRock® DD Plus or TopRock DD Plus 5.
SOPREMA INC – SopraRock®MD Plus, SopraRock®ISO and SopraRock®DD Plus.

3D. **Building Units*** — As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 4ft by 4ft or 96 in., faced on the top surface with oriented strand board. Min thickness of the polyisocyanurate core is 1.3 in. for the 1 hr rating without gypsum wallboard (Item 4) and for the 1-1/2 and 2 hr ratings with gypsum wallboard and 2.6 for the 1-1/2 hr ratings without gypsum wallboard. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
JOHNS MANVILLE – "AulBoard".

3E. **Building Units*** — As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards faced on the underside (or both sides) with mineral fiber board. Min thickness of the polyisocyanurate core is 1.3 in. for the 1 hr rating without gypsum wallboard (Item 4) and for the 1-1/2 and 2 hr ratings with wallboard and 2.6 in. for the 1-1/2 hr ratings without gypsum wallboard. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows. Adhesive (Item 6) may be applied between the building units and the vapor retarder for gypsum wallboard if vapor retarder is not used.
FIRESTONE BUILDING PRODUCTS CO L L C — "ISO 95+ Composite".
JOHNS MANVILLE – Fence Foam.

3F. **Building Units*** — As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards faced on the underside with wood fiberboard, nom 4ft by 8ft or 96 in., faced on the top surface with kraft paper. Min thickness of the polyisocyanurate core is 1.3 in. for the 1-1/2 and 2 hr ratings with wallboard and 2.6 in. for the 1-1/2 hr ratings without gypsum wallboard. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.
FIRESTONE BUILDING PRODUCTS CO L L C — "ISO 95+ Composite".
JOHNS MANVILLE – ENRGY 3 Plus.

3G. **Building Units*** — As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 4ft by 4ft or 96 in., faced on the top surface with gypsum board. Min thickness of the polyisocyanurate core is 1.3 in. for 1 hr rating without gypsum wallboard (Item 4) and for the 1-1/2 and 2 hr ratings with wallboard (Item 4) and 2.6 in. for the 1-1/2 ratings without gypsum wallboard (Item 4). No limit on overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows. Adhesive (Item 6) may be applied between the building units and the vapor retarder for gypsum wallboard if vapor retarder is not used.
JOHNS MANVILLE – ENRGY 2 Gypsum Composite.

3H. **Roof Insulation — Mineral and Fiber Boards*** — As an alternate to Item 3, to be applied in one or more layers with or without adhesive applied between vapor barrier and roof deck units, vapor barrier and board and each layer of board. When more than one layer is required, the joints of the top layer shall be offset in both directions from lower layers a min of 6 in. in order to lap all joints. Min thickness is 2 in. when Item 2A or 2B is used. Min thickness is 1 in. otherwise.
RMCA INSULATION PRODUCTS INC – Permalite.
BUILDING MATERIALS CORP OF AMERICA.
DRA GAF — GAFTEMP Perlite.
JOHNS MANVILLE

3I. **Roof Insulation - Foamed Plastic*** — (Not Shown) As an alternate to Item 3 through 3H, polyurethane foamed plastic insulation boards, nom 4ft by 4ft or 96 in., in two layers over gypsum wallboard. Min thickness is 1.0 in. with no max overall thickness max density 2.5 pcf. When applied in more than one layer, each layer to be offset in both directions from lower layer a min of 6 in. in order to lap all joints. Boards secured to gypsum wallboard (Item 4) with asphalt glaze coat or adhesive (Item 6). Adhesive and/or asphalt glaze coat may be omitted when Item 2A is used. See Foamed Plastic (BRYX) category in the Building Materials Directory for Foamed Plastic (CCVR) category in the Fire Resistance Directory for names of manufacturers.

3J. **Roof Insulation — Foamed Plastic*** — (Not Shown) As an alternate to Item 3, to be applied in one or more layers of Spray applied urethane insulation material. The fiber is applied with water to a min. thickness of 10 in. as measured from the top plane of the roof deck material in accordance with the application instructions supplied with the product. Minimum density of 2.6 pcf. Gypsum board not required over steel roof deck. Min 1 in. thickness of Spray Applied Fire Resistive Material* (Items 10, 10A, 10B) required on underside of steel deck. When Item 3I is used, Roof Covering (Items 2, 2A and 2B) shall not be directly applied over sprayed fiber.
JOHNS MANVILLE – Spray Applied Insulation.

3K. **Roof Insulation - Foamed Plastic*** — (Not Shown) - Optional, a minimum of 1/4 in. thick - Placed over minimum 1-1/2 in. thick polyisocyanurate Foamed Plastic (Item 3) to be applied with adhesive (Item 6), asphalt or coal tar pitch (Item 7) or mechanically fastened (Item 8). Boards to be installed with end joints to be offset in both directions from layer below a min of 6 in. in order to lap all joints.
JOHNS MANVILLE – Invinsa

3L. **Foamed Plastic*** — Optional – Not Shown - Maximum 1 in. thick polyisocyanurate foamed plastic insulation boards, nom 4ft by 4ft or 96 in. Boards may be applied on the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.
FIRESTONE BUILDING PRODUCTS CO L L C — "ISOGARD HD".

3M. **Foamed Plastic*** — As an alternate to Item 3, polyurethane foamed plastic roof insulation. When used, gypsum board (Item 4) to be attached to the underside of the steel deck with the specified fasteners and spacings applied over the gypsum board (Item 4) in accordance with the manufacturer's instructions. Min thickness shall be selected from the table above. No limit on max overall thickness.
BASF CORP – Types FE 303.27, FE 388, FE388-2.5, FE388-2.7, FE388-2.8, FE388-3.0, ELASTOSPRAY 8225, ELASTOSPRAY 8227S, ELASTOSPRAY 8230 or ELASTOSPRAY 8230.
BASF CORP – Elastospray 5100-2.0, Elastospray 5100-2.5, Elastospray 8232, Elastospray 8222, Elastospray Alpha System, Elastospray 8232.

4. **Gypsum Board** — (Not shown) — (Classified or Unclassified) — May be used to obtain various Restrained or Unrestrained Assembly Ratings as described in Item 10. Supplied in sheets nom 4 ft 8 wf 12 ft by 5/8 in. thick. Min weight 2.2 psf. Applied perpendicular to steel roof deck direction with end joints staggered 2 ft in adjacent rows. End joints to occur over crests of steel roof units.
ACADIA DRYWALL SUPPLIES LTD – CKNX R25203
BEIJING NEW BUILDING MATERIALS PUBLIC
BEIJING NEW BUILDING MATERIALS PUBLIC
LTD CO – CKNX R20075
CERTAINTEED GYPSUM CANADA INC – CKNX.R15087
CERTAINTEED GYPSUM INC – CKNX.R6060
CGC INC – CKNX R20724
CONTINENTAL BUILDING PRODUCTS
OPERATING CO, L L C – CKNX.R19082

GEORGIA-PACIFIC GYPSUM L L C — CKNX.R2717
LOADMASTER SYSTEMS INC — CKNX.R10369
PABCO GYPSUM — CKNX.R2593
PABCO BUILDING PRODUCTS L L C. DBA
PABCO GYPSUM — CKNX.R2594
PANEL REY S A — CKNX.R22790
SIAM GYPSUM INDUSTRY (SARABURI) CO LTD —CKNX.R19282
THAI GYPSUM PRODUCTS PCL — CKNX.R27557
UNITED STATES GYPSUM CO — CKNX.R1319
USG MEXICO S A DE C V — CKNX.R10080

5. **Vapor Retarder — Sheathing Material*** — (Optional) — (Not shown) — Vinyl film, kraft paper scrim vapor barrier, applied to steel roof deck with gypsum wallboard adhesive (Item 6), hot asphalt (Item 7) or laid loose, overlapped opposite to an adjacent sheets. See **Sheathing Material** (CIEO) category for names of manufacturers.

5A. **Sheathing Material*** — (Optional) — In lieu of Item 5, a self-adhered rubberized asphalt roofing underlayment membrane which may be placed on top of steel roof deck, gypsum wallboard or on the roof insulation.
W R GRACE & CO - CONN — Grace Ice and Water Shield, Grace Ice and Water Shield HT, Grace Select, Grace Ultra, and Grace Winter.

6. **Adhesive*** — (Optional) — The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be mechanically adhesive to the steel crest surfaces. Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of insulation. Applied in 1/2 in. wide ribbons at a rate of 0.6 gal/100 sq ft. See **Adhesives** (BYWR) category for names of manufacturers.

6A. **Spray-Applied Fire Resistive Materials*** — Bearing the Mark of Conformity for Roof Systems (TGFU) — When FAST 100 adhesive is used the Unrestrained Assembly Ratings are limited to 1, 1-1/2 and 2 hr. The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with adhesive to the steel crest surfaces. Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of insulation. Applied in a min coat of 19.8 g/ft². When FAST 100 adhesive is used, additional **Spray-Applied Fire Resistance Materials* (CRPX)** is required on the deck for the 1-1/2 and 2 hr Unrestrained Assembly Ratings. The thickness specified for the deck shall be increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating.

7. **Metal Lath —** (Optional) — Not shown — Min 3.4 lb/sq yd.
7. **Asphalt or Coal Tar Pitch*** — (Optional) — (Not shown) — The vapor retarder, the gypsum wallboard of the first layer of roof insulation may be secured with asphalt or coal tar pitch to the steel crest surfaces at a max rate of 15 lb/100 sq ft. Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of roof insulation, applied at a max rate of 25 lb/100 sq ft.

8. **Steel Roof Deck** — (Unclassified) — Min 1-1/2 in. deep and 36 in. wide galv fluted steel deck. Min gauge is No. 22 MSG. Ends overlapped a min. of 2 in. and welded to supports 12 in. OC and at side laps. Side laps fastened with 1/2 in. long hex head, self-drilling, self-tapping steel screws spaced a max of 36 in. OC.
8A. **Steel Roof Deck** — (Unclassified) — Min 1-1/2 in. deep and 36 in. wide galv fluted steel deck. Min gauge is No. 22 MSG. Ends overlapped a min. of 2 in. and welded to supports 12 in. OC and at side laps. Side laps fastened with 3/4 in. long No. 12 self-drilling, self-tapping steel screws at 36 in. OC. As alternate to screw fasteners adjacent units may be button-punched or welded together 36 in. OC along side joints.
ASC STEEL DECK, DIV OF ASC PROFILES L
L C – 24 through 36 in. wide, Types DCB 36 Form, B 36 Form, DGB, B, DGN 36 Form, N 36 Form, DGN, and N. All units may be painted, pmd/pmd, or galvanized.
CANAM STEEL CORP – Type P-36K, P-36D, P-24W, P-24D, and P-24B noncomposite.
CANAM STEEL CORP – Types B, F, N. Units may be plain /pmd or pmd/pmd.
CONSOLIDATED SYSTEMS INC – Types B, H, F, N and NF. Units may be pmd/pmd.
NEW MILLENNIUM BUILDING SYSTEMS L L C – Types B, H, F, N. Units may be plain/painted, pmd/pmd, or galvanized. Painted units may be used for ratings up to 2 h.
VULCRAFT, INC. A NUCOR CO — Types PLB, HSB, PLN and N; or Types PLN3, HSN3. Pmd/pmd units may be used for ratings up to 2 h.
VULCRAFT, DIV OF NUCOR CORP — Types BW, F, High Strength B, High Strength BW, N. pmd/pmd units may be used for ratings up to 2 h.
VULCRAFT, DIV OF NUCOR CORP — Cals Types 1.5B, 1.5BI, 1.5F, 3N and 3NI, pmd/pmd units may be used for ratings up to 3 hr.

Note: Type Z-106 Spray-Applied Fire Resistive Materials to be used with galv steel roof units only.

10. **Spray-Applied Resistive Material*** — Applied by mixing with water and spraying in more than one coat to final thicknesses as shown in the illustration above and in the table below to steel surfaces which must be clean and free of dirt, loose scale and oil. Steel deck surface must be "spatter" coated with Type SK-3 Spray-Applied Fire Resistive Materials prior to application of spray-applied resistive material. Type SK-3 spray-applied resistive material applied in accordance with the manufacturer's application instructions. When steel deck is used the area between the steel deck and the beams top flange shall be filled. Min average and min ind density of 40/36 pcf respectively for Types Z-106, Z-106/HY, Z-106/IG, Z-146, Z-146PC and Z-146T cementitious mixture. See Design Information Section. Thickness of the spatter coat is included in the total thickness of the protection material.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Steel deck thickness # With Gypsum Wallboard	Without Gypsum Wallboard	Beam Thickness Self-flange Webs/B	UT-flange/H Webs/B Beam
1	1	1	9/14	1	7/16	1/2
1	1	1	9/16**	1	7/16	1/2
1	1	1	5/8	1	7/16	1/2
1	1	1	1*	15/16*	7/16	1/2
1-1/2	1-1/2	1	9/16	1	7/16	1/2
1-1/2	1-1/2	1-1/2	15/16	13/8	5/8	13/16
1-1/2	1-1/2	1-1/2*	1-1/8*	5/8	5/8	13/16
2	1	1	1*	15/16*	7/16	1/2
2	1-1/2	1	9/16	1	7/16	1/2
2	1-1/2	1-1/2	15/16	13/8	5/8	13/16
2	2	1-1/2	1-1/2*	1-1/2*	5/8	13/16
2	2	2	2*	2*	7/8	1 1/16
3	1-1/2	1-1/2	1-1/2	2 1/8	13/16	15/8
3	2	1-1/2	2 1/8	2 5/8	15/8	2 1/8
3	3	1-1/2	2 5/8	3 1/8	15/8	2 1/8

The required minimum thickness of Spray-Applied Fire Resistive Materials on the steel deck is increased by 1/16 inch for 1-1/2 hr Un-restrained assembly rating and 1/4 inch for 2 hr Unrestrained Assembly rating when Item 6A is used.

FIRE-RESISTANCE RATINGS - ANSI/UL 263 (BXUV)

When the thickness applied to the lower flange edges is reduced by one half, the 1/2 flange thickness is applicable.
* As minimum insulation thickness required
**Minimum insulation thickness (Item 3) 2 inches.
@ When the maximum clear span of the steel decking is 5 ft. 2 in. or less, the Unrestrained Assembly Rating is 1-hour.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Joist thickness 10K1 over than 14 OC	10K1 less than 14 OC	16K2 over than 14 OC	16K2 less than 14 OC
1	1	1	11/8	1	15/16	15/16
1	1	1	11/8	1	15/16	15/16
1 1/2	1	1	15/16	15/16	11/8	11/8
1 1/2	1 1/2	1	15/16	15/16	11/8	11/8
2	1	1	15/16	15/16	11/8	11/8
2	1 1/2	1	15/16	15/16	11/8	11/8
2	2	1 1/2	2 3/16	2 3/16	15/16	15/16
3	1	1	2 3/16	2 3/16	15/16	15/16
3	1 1/2	1	2 3/16	2 3/16	15/16	15/16
3	2	1 1/2	2 3/16	2 3/16	15/16	15/16
3	3	1 1/2	2 3/16	2 3/16	15/16	15/16

@ When the maximum clear span of the steel decking is 5 ft. 2 in. or less, the Unrestrained Assembly Rating is 1-hour.

ARABIAN VERMICULITE INDUSTRIES — Types MK-6/HY, MK-6/HY Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-1000/HB, MK-1000/HB Extended Set, SK-3.
GRACE KOREA INC — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, SK-3.
W R GRACE & CO - CONN — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, SK-3.

10A. **Alternate Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in one or more coats to final thicknesses as shown in the table below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. When Type Z-106/G is used, the steel deck surface must be "spatter" coated with Type SK-3 Spray-Applied Fire Resistive Materials prior to application of spray applied resistive material. Type SK-3 spray applied resistive material applied in accordance with the manufacturer's application instructions. When steel deck is used the area between the steel deck and the beams top flange shall be filled. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106/HY, Z-106/IG. Min avg and min ind density of 40/36 pcf respectively for Types AV650, Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types AV800, Z-156, Z-156T and Z-156PC. For method of density determination, see Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Steel deck thickness # With Gypsum Wallboard	Without Gypsum Wallboard	Beam Thickness Self-flange Webs/B	UT-flange/H Webs/B Beam
1	1	1	9/14	1	7/16	1/2
1	1	1	9/16**	1	7/16	1/2
1	1	1	5/8	1	7/16	1/2
1	1	1	1*	15/16*	7/16	1/2
1 1/2	1	1	9/16	1	7/16	1/2
1 1/2	1 1/2	1	15/16	13/8	5/8	13/16
1 1/2	1 1/2	1 1/2*	2 1/8*	5/8	5/8	13/16
2	1	1	1*	15/16*	7/16	1/2
2	1 1/2	1	9/16	1	7/16	1/2
2	1 1/2	1 1/2	15/16	13/8	5/8	13/16
2	2	1 1/2	1 1/2*	2 5/8*	7/8	1 1/16
3	1 1/2	1 1/2	1 1/2	2 1/8	13/16	15/8
3	2	1 1/2	2 1/8	2 5/8	15/8	2 1/8
3	3	1 1/2	2 5/8	3 1/8	15/8	2 1/8

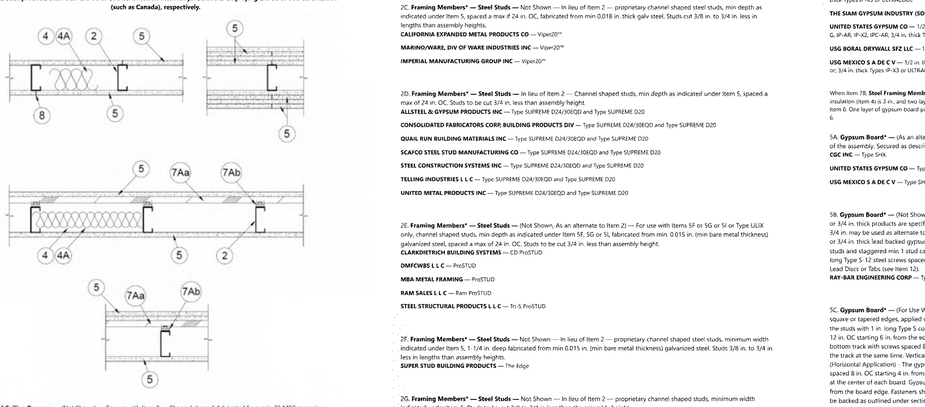
The required minimum thickness of Spray-Applied Fire Resistive Materials on the steel deck is incre

UL DESIGN NO U419

Design No. **U419**

March 2, 2022

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through SJ)
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAX

DMFCWBS L L C — ProTRAX

MBA METAL FRAMING — ProTRAX

RAM SALES L L C — Ram ProTRAX

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAX

1F. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* — Floor and Ceiling Runner —** For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CRDCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100
IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runner —** (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners. 3- 5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1- 1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1- 1/4 in. wide by min. 3- 1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs —** (As an alternate to Item 2; For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™
CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. **Framing Members* — Steel Studs —** In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1- 1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDCO BUILDING SYSTEMS — CRDCSTUD

2H. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members* — Steel Studs —**

2J. **Framing Members* — Metal Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC., fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. **Framing Members*— Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in, and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2O. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1Q, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. **Wood Structural Panel Sheathing —** (Optional. For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in.

at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
See **Batts and Blankets** (BKNV or RZJZ) Categories for names of Classified companies.

4A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or RZJZ) Categories for names of Classified companies.

4B. **Fiber, Sprayed*** — (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. **Foamed Plastic —** (Where Batts and Blankets*, Item 4, are optional, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in.

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamulate Closed Cell, Foamulate OCX, Foamulate 70, and Foamulate HFO.

5. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, In. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1 5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1 5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC, 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC, 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR, 3/4 in. thick Types IP-X2 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or, 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type FRX-G, SHX

USG MEXICO S A DE C V — Type SHX

5B. **Gypsum Board*** — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A; (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1- 1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board*** — (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.
CGC INC — Type SCX, ULIX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1- 1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5F. **Gypsum Board*** — (As an alternate to Item 5) — For use with Items 1E and 2E only. Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, In. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or, 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX, 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or, 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1- 1/4 in. long Type S-12 steel screws spaced 8 in. OC as perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1- 1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board*** — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
CGC INC — Type ULIX, ULX

UNITED STATES GYPSUM CO — Type ULIX, ULX

USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board*** — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1- 1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. **Gypsum Board* —** (As an alternate to Item 5 when Foam Plastic insulation (Item 4C) is used) **—** Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type S steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.

6. **Fasteners —** (Not Shown) — For use with Items 2 and 2F - Type S or S-12 screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1- 1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Single layer system with Type ULIX:** 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1- 1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2- 1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels** — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. **Framing Members*** — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members*** — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below.
a. **Furring Channels** — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 1-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members*** — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members*** — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. **Steel Framing Members*** — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels** — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members*** — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. **Steel Framing

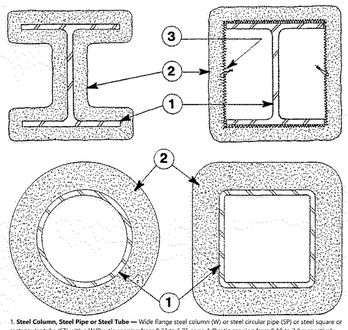
UL DESIGN NO X795

Design No. X795

November 20, 2017

Ratings — 1, 1-1/2, 2, 3 and 4 Hr

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Steel Column, Steel Pipe or Steel Tube —** Wide flange steel column (W) or steel circular pipe (SP) or steel square or rectangular tube (ST) with a W/D ratio ranging from 0.33 to 6.76 or an A/P ratio ranging from 0.18 to 2.0 respectively

2. **Spray-Applied Fire Resistive Materials* —** Applied by mixing with water and spraying in more than one coat to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale and oil. Min avg and min ind density of 40/36 pcf respectively for Types Avikote AV 650, Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Type Avikote AV 800, Z-150, Z-150T and Z-150PC. For method of density determination, see Design Information Section, Sprayed Material.
The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contours sprayed or boxed wide flange columns are shown in the table below:

The thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the column (item 1) required for rating periods of 1, 1-1/2, 2, 3 and 4 h may be determined by the equation:

$$h = \frac{R}{1.05\,(W/D) + 0.61}$$

Where:

h=Spray-Applied Fire Resistive Materials thickness in the range 0.25-3.875 in.

R=Fire resistance rating in hours (1-4 h)

D=Heated perimeter of steel column in inches

W=Weight of steel column in lbs per foot

W/D=0.33 to 6.76

As an alternate to the equation, the min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contours sprayed or boxed wide flange columns are shown on the table below:

Column Size In.	W/D Ratio	Min Thkns In. 1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hr
W4x13	0.56	7/8	1-5/16	1-7/16	2-1/8	3
W5x16	0.55	7/8	1-5/16	1-1/2	2-1/8	3
W5x19	0.64	13/16	1-3/16	1-7/16	2-1/16	2-3/4
W6x9	0.34	1-1/16	1-7/16	1-1/2	2-1/4	3
W6x12	0.45	15/16	1-3/8	1-1/2	2-3/16	3
W6x15	0.43	1	1-7/16	1-1/2	2-3/16	3
W6x16	0.58	13/16	1-1/4	1-7/16	2-1/8	2-15/16
W6x20	0.56	7/8	1-5/16	1-7/16	2-1/8	3
W6x25	0.70	3/4	1-1/8	1-3/8	2	2-1/2
W8x10	0.33	1-1/16	1-7/16	1-1/2	2-1/4	3
W8x13	0.42	1	1-7/16	1-1/2	2-3/16	3
W8x15	0.48	15/16	1-3/8	1-1/2	2-3/16	3
W8x18	0.50	5/16	1-3/8	1-1/2	2-3/16	3
W8x21	0.58	13/16	1-1/4	1-7/16	2-1/8	2-15/16
W8x24	0.59	13/16	1-1/4	1-7/16	2-1/8	2-15/16
W8x28	0.69	3/4	1-3/16	1-3/8	2	2-1/2
W8x31	0.67	13/16	1-3/16	1-7/16	2-1/16	2-5/8
W8x35	0.75	3/4	1-1/8	1-3/8	2	2-5/16
W8x40	0.85	11/16	7/8	1-1/8	1-9/16	1-15/16
W8x48	1.00	5/8	7/8	1-1/8	1-9/16	1-15/16
W8x58	1.20	9/16	13/16	1-1/8	1-9/16	1-7/8
W8x67	1.37	1/2	3/4	1	1-1/2	1-7/8
W10x12	0.35	1-1/16	1-7/16	1-1/2	2-1/4	3
W10x15	0.43	1	1-7/16	1-1/2	2-3/16	3
W10x17	0.48	15/16	1-3/8	1-1/2	2-3/16	3
W10x19	0.54	7/8	1-5/16	1-1/2	2-1/8	3
W10x22	0.52	7/8	1-5/16	1-1/2	2-1/8	3
W10x26	0.61	13/16	1-1/4	1-7/16	2-1/8	2-14/16
W10x30	0.70	3/4	1-1/8	1-3/8	2	2-1/2
W10x33	0.66	13/16	1-3/16	1-7/16	2-1/16	2-11/16
W10x39	0.78	3/4	1-1/16	1-3/8	2	2-3/16
W10x45	0.89	11/16	7/8	1-1/8	1-9/16	1-15/16
W10x49	0.84	11/16	7/8	1-1/8	1-9/16	1-15/16
W10x54	0.92	11/16	7/8	1-1/8	1-9/16	1-15/16
W10x60	1.01	5/8	7/8	1-1/8	1-9/16	1-15/16
W10x68	1.15	9/16	7/8	1-1/8	1-9/16	1-7/8
W10x77	1.28	9/16	13/16	1-1/16	1-9/16	1-7/8
W10x88	1.45	1/2	3/4	1	1-7/16	1-13/16
W10x100	1.64	7/16	11/16	7/8	1-5/16	1-3/4
W10x112	1.81	7/16	5/8	13/16	1-1/4	1-5/8
W12x14	0.36	1-1/16	1-7/16	1-1/2	2-1/4	3
W12x16	0.41	1	1-7/16	1-1/2	2-1/4	3
W12x19	0.49	15/16	1-6/16	1-8/16	2-3/16	3
W12x22	0.56	7/8	1-5/16	1-7/16	2-1/8	3
W12x26	0.53	7/8	1-5/16	1-1/2	2-1/8	3
W12x30	0.61	13/16	1-1/4	1-7/16	2-1/8	2-14/16
W12x35	0.70	3/4	1-1/8	1-3/8	2	2-1/2
W12x40	0.73	3/4	1-1/8	1-3/8	2	2-3/8
W12x45	0.83	11/16	1-1/16	1-3/8	1-15/16	2
W12x50	0.91	11/16	7/8	1-1/8	1-9/16	1-15/16
W12x53	0.86	11/16	7/8	1-1/8	1-9/16	1-15/16
W12x58	0.93	11/16	7/8	1-1/8	1-9/16	1-15/16
W12x65	0.93	11/16	7/8	1-1/8	1-9/16	1-15/16
W12x72	1.02	5/8	7/8	1-1/8	1-9/16	1-15/16
W12x79	1.11	5/8	7/8	1-1/8	1-9/16	1-7/8
W12x87	1.22	9/16	13/16	1-1/16	1-9/16	1-7/8
W12x96	1.34	1/2	3/4	1	1-1/2	1-7/8
W12x106	1.47	1/2	3/4	15/16	1-7/16	1-13/16
W12x120	1.65	7/16	11/16	7/8	1-5/16	1-3/4
W12x136	1.86	7/16	5/8	13/16	1-3/16	1-9/16
W12x152	2.04	3/8	9/16	3/4	1-1/8	1-1/2
W12x170	2.26	3/8	9/16	11/16	1-1/16	1/3/8
W12x190	2.50	5/16	1/2	5/8	15/16	1-1/4
W12x210	2.73	5/16	7/16	9/16	7/8	1-3/16
W12x230	2.96	5/16	7/16	9/16	13/16	1-1/8
W12x252	3.20	5/16	7/16	9/16	13/16	1-1/16
W12x279	3.50	1/4	3/8	1/2	3/4	15/16
W12x305	3.76	1/4	3/8	1/2	13/16	15/16
W12x336	4.06	1/4	5/16	7/16	5/8	7/8
W14x22	0.48	15/16	1-3/8	1-1/2	2-3/16	3
W14x26	0.56	7/8	1-5/16	1-7/16	2-1/8	3
W14x30	0.56	7/8	1-5/16	1-7/16	2-1/8	3
W14x34	0.63	13/16	1-3/16	1-7/16	2-1/16	2-3/4
W14x38	0.71	3/4	1-1/8	1-3/8	2	2-7/16
W14x43	0.75	3/4	1-1/8	1-3/8	2	2-5/16
W14x48	0.84	11/16	7/8	1-1/8	1-9/16	1-15/16
W14x53	0.92	11/16	7/8	1-1/8	1-9/16	1-15/16
W14x61	0.93	11/16	7/8	1-1/8	1-9/16	1-15/16
W14x68	1.04	5/8	7/8	1-1/8	1-9/16	1-15/16
W14x74	1.12	9/16	7/8	1-1/8	1-9/16	1-7/8
W14x82	1.23	9/16	13/16	1-1/16	1-9/16	1-7/8
W14x90	1.08	5/8	7/8	1-1/8	1-9/16	1-15/16
W14x99	1.18	9/16	13/16	1-1/8	1-9/16	1-7/8
W14x109	1.29	9/16	13/16	1-1/16	1-9/16	1-7/8
W14x120	1.42	1/2	3/4	1	1-7/16	1-13/16
W14x132	1.56	1/2	11/16	15/16	1-3/8	1-13/16
W14x145	1.64	7/16	11/16	7/8	1-5/16	1-3/4
W14x159	1.78	7/16	5/8	13/16	1-1/4	1-5/8
W14x176	1.96	3/8	9/16	3/4	1-1/8	1-1/2
W14x193	2.14	3/8	9/16	3/4	1-1/16	1-7/16
W14x211	2.32	3/8	1/2	11/16	1	1-3/8
W14x233	2.55	5/16	1/2	9/16	7/8	1-1/4
W14x257	2.78	5/16	7/16	9/16	7/8	1-3/16
W14x283	3.03	5/16	7/16	9/16	13/16	1-1/16
W14x311	3.30	1/4	3/8	1/2	3/4	1
W14x342	3.58	1/4	3/8	1/2	11/16	15/16
W14x370	3.84	1/4	3/8	7/16	11/16	7/8
W14x398	4.09	1/4	5/16	7/16	5/8	7/8
W14x426	4.32	1/4	5/16	7/16	5/8	13/16
W14x455	4.59	1/4	5/16	3/8	9/16	3/4
W14x500	4.95	1/4	5/16	3/8	9/16	3/4
W14x550	5.34	1/4	5/16	3/8	1/2	11/16
W14x605	5.82	1/4	5/16	5/16	1/2	5/8
W14x665	6.21	1/4	5/16	5/16	7/16	9/16
W14x730	6.76	1/4	5/16	5/16	3/8	9/16
W16x26	0.50	15/16	1-3/8	1-1/2	2-3/16	3
W16x31	0.59	13/16	1-1/4	1-7/16	2-1/8	2-15/16
W16x36	0.62	13/16	1-1/4	1-7/16	2-1/16	2-13/16
W16x40	0.69	3/4	1-3/16	1-3/8	2	2-1/2
W16x45	0.77	3/4	1-1/16	1-3/8	2	2-1/4
W16x50	0.85	11/16	7/8	1-1/8	1-9/16	1-15/16
W16x57	0.96	5/8	7/8	1-1/8	1-5/16	1-15/16
W16x67	0.94	11/16	7/8	1-1/8	1-9/16	1-15/16
W16x77	1.07	5/8	7/8	1-1/8	1-9/16	1-15/16
W16x89	1.22	9/16	13/16	1-1/16	1-9/16	1-7/8
W16x100	1.37	1/2	3/4	1	1-1/2	1-7/8
W18x35	0.60	13/16	1-1/4	1-7/16	2-1/8	2-14/16
W18x40	0.69	3/4	1-3/16	1-3/8	2	2-1/2
W18x46	0.79	3/4	1-1/16	1-3/8	2	2-1/8
W18x50	0.78	3/4	1-1/16	1-3/8	2	2-3/16
W18x55	0.85	11/16	7/8	1-1/8	1-9/16	1-15/16
W18x60	0.92	11/16	7/8	1-1/8	1-9/16	1-15/16
W18x65	1.00	5/8	7/8	1-1/8	1-9/16	1-15/16
W18x71	1.08	5/8	7/8	1-1/8	1-9/16	1-15/16
W18x76	0.97	5/8	7/8	1-1/8	1-9/16	1-15/16
W18x86	1.09	5/8	7/8	1-1/8	1-9/16	1-15/16
W18x97	1.22	9/16	13/16	1-1/16	1-9/16	1-7/8
W18x106	1.33	9/16	3/4	1	1-1/2	1-7/8
W18x119	1.48	1/2	3/4	15/16	1-7/16	1-13/16
W21x44	0.67	13/16	1-3/16	1-7/16	2-1/16	2-5/8
W21x50	0.75	3/4	1-1/8	1-3/8	2	2-5/16
W21x57	0.86	11/16	7/8	1-1/8	1-9/16	1-15/16
W21x62	0.85	11/16	7/8	1-1/8	1-9/16	1-15/16
W21x68	0.93	11/16	7/8	1-1/8	1-9/16	1-15/16
W21x73	0.99	10/16	7/8	1-1/8	1-9/16	1-15/16
W21x83	1.12	9/16	7/8	1-1/8	1-9/16	1-7/8
W21x93	1.24	9/16	13/16	1-1/16	1-9/16	1-7/8
W21x101	1.13	9/16	7/8	1-1/8	1-9/16	1-7/8
W21x111	1.24	9/16	13/16	1-1/16	1-9/16	1-7/8
W21x122	1.35	1/2	3/4	1	1-1/2	1-7/8
W21x132	1.45	1/2	3/4	1	1-7/16	1-13/16
W21x147	1.61	7/16	11/16	7/8	1-5/16	1-3/4
W24x55	0.75	3/4	1-1/8	1-3/8	2	2-5/16
W24x62	0.84	11/16	7/8	1-1/8	1-9/16	1-15/16
W24x68	0.84	11/16	7/8	1-1/8	1-9/16	1-15/16
W24x76	0.93	11/16	7/8	1-1/8	1-9/16	1-15/16
W24x84	1.02	5/8	7/8	1-1/8	1-9/16	1-15/16
W24x94	1.14	9/16	7/8	1-1/8	1-9/16	1-7/8
W24x104	1.07	5/8	7/8	1-1/8	1-9/16	1-15/16
W24x117	1.20	9/16	13/16	1-1/8	1-9/16	1-7/8
W24x131	1.33	9/16	3/4	1	1-1/2	1-7/8
W24x146	1.48	1/2	3/4	15/16	1-7/16	1-13/16
W24x162	1.63	7/16	11/16	7/8	1-5/16	1-3/4
W27x84	0.92	11/16	7/8	1-1/8	1-9/16	1-15/16
W27x94	1.03	5/8	7/8	1-1/8	1-9/16	1-15/16
W27x102	1.11	5/8	7/8	1-1/8	1-9/16	1-7/8
W27x114	1.23	9/16	13/16	1-1/16	1-9/16	1-7/8
W27x146	1.25	1/2	3/4	1	1-1/2	1-7/8
W27x161	1.48	1/2	3/4	15/16	1-7/16	1-13/16
W27x178	1.63	7/16	11/16	7/8	1-5/16	1-3/4
W30x99	1.00	5/8	7/8	1-1/8	1-9/16	1-15/16
W30x108	1.09	5/8	7/8	1-1/8	1-9/16	1-15/16
W30x116	1.16	9/16	7/8	1-1/8	1-9/16	1-7/8
W30x124	1.24	9/16	13/16	1-1/16	1-9/16	1-7/8
W30x132	1.32	9/16	13/16	1-1/16	1-9/16	1-7/8
W30x173	1.47	1/2	3/4	15/16	1-7/16	1-13/16
W30x191	1.62	7/16	11/16	7/8	1-5/16	1-3/4
W30x211	1.76	7/16	5/8	7/8	1-1/4	1-11/16
W33x118	1.08	5/8	7/8	1-1/8	1-9/16	1-15/16
W33x130	1.18	9/16	13/16	1-1/8	1-9/16	1-7/8
W33x141	1.28	9/16	13/16	1-1/16	1-9/16	1-7/8
W33x152	1.37	1/2	3/4	1	1-1/2	1-7/8
W33x201	1.58	1/2	11/16	15/16	1-3/8	1-13/16
W33x221	1.73	7/16	5/8	7/8	1-1/4	1-11/16
W33x241	1.87	7/16	5/8	13/16	1-3/16	1-9/16
W36x135	1.15	9/16	7/8	1-1/8	1-9/16	1-7/8
W36x150	1.27	9/16	13/16	1-1/16	1-9/16	1-7/8
W36x160	1.35	1/2	3/4	1	1-1/2	1-7/8
W36x170	1.43	1/2	3/4	1	1-7/16	1-13/16
W36x182	1.52	1/2	11/16	15/16	1-3/8	1-13/16
W36x194	1.62	7/16	11/16	7/8	1-5/16	1-3/4
W36x210	1.74	7/16	5/8	7/8	1-1/4	1-11/16
W36x230	1.69	7/16	11/16	7/8	1-5/16	1-11/16
W36x245	1.79	7/16	5/8	13/16	1-1/4	1-5/8
W36x260	1.90	7/16	5/8	13/16	1-3/16	1-9/16
W36x280	2.03	3/8	9/16	3/4	1-1/8	1-1/2
W36x300	2.17	3/8	9/16	3/4	1-1/16	1-7/16

The hourly rating of the structural member is dependent upon the ratio of A/P and the thickness of Spray-Applied Fire Resistive Materials, where A is the cross sectional area of the pipe or tube and P is the heated perimeter.

The A/P ratio of a circular pipe is determined by:

$$A/P\ \text{pipe} = \frac{t\,(d - t)}{d}$$

Where:

d=the outer diameter of the pipe (in.)

t=the wall thickness of the pipe (in.)

The A/P ratio of a rectangular or square tube is determined by:

$$A/P\ \text{tube} = \frac{t\,(a + b - 2t)}{a \times b}$$

Where:

a=the outer width of the tube (in.)

b=the outer length of the tube (in.)

t=the wall thickness of the tube (in.)

The thickness of Spray-Applied Fire Resistive Materials for ratings of 3/4, 1, 1-1/2, 2, 3 and 4 h of a steel pipe or tube can be determined by the equation:

$$h = \frac{R - 0.2}{4.43\,(A/P)}$$

Where:

R=the hourly rating (hrs)

h=Spray-Applied Fire Resistive Materials thickness in the range 0.25-3.875 in.

As an alternate to the equation, the min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed steel pipes or tubes are shown on the table below:

Column Size In.	Min Thkns In. 1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hr
ST 4x4x3/16 in.	1	1-7/16	1-13/16	2-9/16	3-5/16
ST 4x4x5/16 in.	5/8	1-1/16	1-7/16	2-3/16	2-15/16
ST 4x4x3/8 in.	9/16	7/8	1-1/4	1-7/8	2-9/16
ST 4x4x1/2 in.	7/16	11/16	15/16	1-7/16	2
ST 20x20x3/4 in.	1/4	3/8	9/16	7/8	1-3/16
ST 20x20x1 in.	1/4	5/16	7/16	11/16	15/16
ST 20x20x1-1/12 in.	1/4	1/4	5/16	1/2	5/8
ST 20x20x1-3/4 in.	1/4	1/4	5/16	7/16	9/16
ST 32x32x1-1/4 in.	1/4	1/4	3/8	9/16	3/4
ST 32x32x1-1/2 in.	1/4	1/4	5/16	1/2	5/8
ST 32x32x1-3/4 in.	1/4	1/4	1/4	7/16	9/16
ST 32x32x2 in.	1/4	1/4	1/4	3/8	1/2
ST 36x24x1/2 in.	3/8	5/8	7/8	1-5/16	1-3/4
SP 4x0.237 in.	13/16	1-3/8	1-13/16	2-5/8	3-1/2
SP 6x0.432 in.	1/2	3/4	1-1/16	1-5/8	2-3/16
SP 6x0.864 in.	1/4	3/8	9/16	7/8	1-3/16
SP 8x0.322 in.	5/8	1	1-5/16	2-1/16	2-13/16
SP 10x0.5 in	3/8	5/8	7/8	1-3/8	1-13/16

ARABIAN VERMICULITE INDUSTRIES — Types Z-146, Z-146 NPP, ZZ-146PC, Z-146T, Z-156, Z-156PC, Z-156T, AV 650, AV 800. Investigated for exterior use.

GCP KOREA INC — Types Z-146, Z-146 NPP, Z-146PC, Z-146T, Z-156, Z-156PC, Z-156T. Investigated for exterior use.

GCP APPLIED TECHNOLOGIES INC — Types Z-146, Z-146 NPP, Z-146PC, Z-146T, Z-156, Z-156PC, Z-156T. Investigated for exterior use.

3. **Metal Lath —** (Optional for contour application) — 3.4 lbs per sq yd galv or painted expanded steel lath. Lath shall be lapped 1 in. and tied together with No. 18 SWG galv steel wire spaced vertically 6 in. O.C.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2017-11-20

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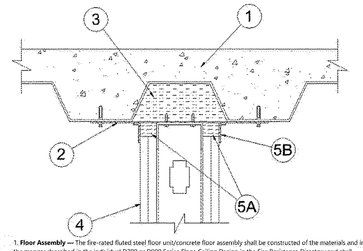
UL SYSTEM NO HW-D-0264

System No. HW-D-0264

September 02, 2020

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 4)	F Ratings — 1 and 2 Hr (See Item 4)
Nominal Joint Width - 1-1/2 In.	FT Ratings — 1 and 2 Hr (See Item 4)
Class II Movement Capabilities — 50% Compression or Extension	FH Ratings — 1 and 2 Hr (See Item 4)
L Rating At Ambient — Less Than 1 CFM/lin ft	FTH Ratings — 1 and 2 Hr (See Item 4)
L Rating At 400 F — Less Than 1 CFM/lin ft	Nominal Joint Width - 1-1/2 In.
	Class II Movement Capabilities — 50% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/lin ft
	L Rating At 400 F — Less Than 1 CFM/lin ft



1. **Floor Assembly —** The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:
   A. **Steel Floor and Form Units* —** Max 3 in. (76 mm) deep galv steel fluted floor units.

   B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

   C. **Spray-Applied Fire Resistive Material* —** (Optional, Not Shown) - After installation of the steel straps (Item 2), the steel floor units may be sprayed with the min thickness of material specified in the individual D700 Series Design.
   ISOLATEK INTERNATIONAL — Type 300

   GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY or MK-10HB

1A. **Roof Assembly —** (Not Shown) - As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof shall be constructed of the materials and in the manner described in the individual P700 or P900 Series Roof-Ceiling designs in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
   A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

   B. **Roof Insulation —** Roof insulation to consist of min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the roof deck.

   C. **Spray-Applied Fire Resistive Material* —** (Optional, Not Shown) - After installation of the steel straps (Item 2), all surfaces of the steel deck may be sprayed with the thickness of material as specified in the individual P700 Series Roof-Ceiling Design. The flutes of the steel deck above the steel straps and wall may be filled with material as an alternate to the Forming Material (Item 3).
   ISOLATEK INTERNATIONAL — Type 300

   GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY or MK-10HB

2. **Steel Straps —** Min 2 in. (51 mm) wide 16 MSG galv steel straps cut to a length to span the flute and overlap the adjacent valleys of fluted floor units or roof deck by 1-1/2 in. (38 mm). Straps spaced max 24 in. (610 mm) OC and fastened to floor or roof assembly with masonry anchors or steel fasteners. As an alternate, min 1 in. (25 mm) long Hilti X-DNI 27 PB S15 or Hilti X-U 27 PB S15 powder actuated floor pins with integral min 9/16 in. (14 mm) diam washer may be used to secure steel straps to floor or roof assembly.

3. **Forming Material* - Plugs —** Preformed mineral wool plugs, formed to the shape of the fluted floor units or roof deck, friction fit to completely fill the flutes above the steel straps. Adjacent lengths of plugs to be tightly butted with butted seams spaced min 24 in. (610 mm) apart along the length of the plugs.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs

3A. **Forming Material*** — As an alternate to Item 3, min 4 pcf (64 kg/m^3) mineral wool batt insulation forming material cut to the shape of the fluted floor units or roof deck and friction fit to completely fill the flutes above the steel straps. Adjacent lengths of batts to be tightly butted with butted seams spaced min 24 in. (610 mm) apart along the length of the flutes.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — SAFE

THERMAFIBER INC — Type SAF

4. **Wall Assembly —** The 1 hr or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory. In addition, the wall may incorporate a head-of-wall joint system as specified in the HW Series Joint Systems in the UL Fire Resistance Directory. The wall shall include the following construction features:
   A. **Steel Floor Runners —** Floor runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner to be 3/4 in. (19 mm) greater than extended joint width. Ceiling runner installed parallel to direction of fluted steel floor units, directly beneath steel straps, and secured to straps with two No. 8 self-drilling, self-tapping steel screws per strap.

   A1. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 4A, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Items 4B). Ceiling runner installed parallel to direction of fluted steel floor deck, directly beneath steel straps, and secured to straps with two No. 8 self-drilling, self-tapping steel screws per strap. When slotted ceiling runner is used, deflection channel (Item 3A) shall not be used.
   BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK, SLPTRK32S

   CALIFORNIA EXPANDED METAL PRODUCTS CO — CST , CST325

   CLARKDIETRICH BUILDING SYSTEMS — Types SLT, SLT-H

   MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

   METAL-LITE INC — The System

   RAM SALES L L C — RAM Slotted Track

   A2. **Light Gauge Framing*- Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 4A through 2A1, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors spaced max 24 in. (610 mm) OC.
   OLMAR SUPPLY INC — Type SCR

   A3. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 4A through 4A2, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 4B). Flange height of slotted ceiling runner shall be 3-1/4 in. (83 mm) with 2 in. (51 mm) deep slots. Slotted ceiling runner installed parallel to direction of fluted steel floor deck, directly beneath steel straps, and secured to straps with two No. 8 self-drilling, self-tapping steel screws per strap.
   SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track-Type SDLT

   B. **Studs —** Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 3/4 in. (19 mm) to 1 in. (25 mm) less in length than assembly height with bottom resting in and resting on the floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 4A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. Stud spacing not to exceed 24 in. (610 mm) OC. When slotted ceiling runner (Item 4A3) is used, steel studs cut in lengths 3/4 to 1-3/4 in. (19 to 44 mm) less than floor to ceiling height and secured to slotted ceiling runner with No. 8 by 1/2 (13 mm) long wafer head steel screws at +/- 3/16 in. (5 mm) of the mid-height of slot on each side of wall.

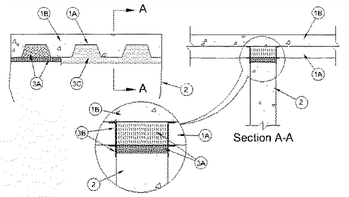
   C. **Gypsum Board* —** For 1 hr assembly, one layer of 5/8 in. (16 mm) thick gypsum board as specified in the Individual Wall and Partition Design. For 2 hr assembly, two layers of 5/8 in. (16 mm) thick gypsum board are specified in the individual Wall and Partition Design. For both hourly ratings, a nominal 1-1/2 in. (38 mm) gap shall be maintained between the top of the gypsum board and the bottom surface of the steel floor units and the top row of screws shall be installed into the studs 3 in. (76 mm) below the valleys of the steel floor units.
   **The h

UL SYSTEM NO HW-D-0415

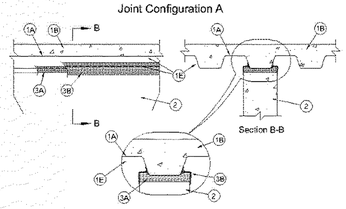
System No. HW-D-0415

April 14, 2016

ANSI/UL2079	CAN/ULC S115
Assembly Ratings —2 and 3 Hr (See Items 3 and 4)	F Ratings — 2 and 3 Hr (See Items 3 and 4)
Nominal Joint Width —1 and 2 In.	FT Ratings — 2 and 3 Hr (See Items 3 and 4)
Class II or III Movement Capabilities — 25% Compression or Extension	FH Ratings —2 and 3 Hr (See Items 3 and 4)
L Rating At Ambient — Less Than 1 CFM/Lin Ft	FTH Ratings — 2 and 3 Hr (See Items 3 and 4)
L Rating At 400°F — Less Than 1 CFM/Lin Ft	Nominal Joint Width — 1 and 2 In. (See Item 3)
	Class II or III Movement Capabilities — 25% Compression or Extension
	L Rating At Ambient — Less Than 5.1L/s-m^2
	L Rating At 400°F — Less Than 5.1L/s-m^2



Joint Configuration A



Joint Configuration B

1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Floor Units*** — Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100–150 pcf or 1600–2400 kg/m^3) structural concrete, as measured from the top plane of the floor units.
The hourly fire rating of the floor assembly shall be equal or greater than the hourly fire rating of the wall assembly.

1A. **Floor Assembly —** As an alternate to Item 1, the fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Floor Units*** — Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100–150 pcf or 1600–2400 kg/m^3) structural concrete, as measured from the top plane of the floor units.

C. **Spray-Applied Fire Resistive Material*** — Prior to the installation of the joint system (Item 3) all surfaces of the steel floor units to be sprayed with the thickness of material specified in the individual D700 Series Design.
GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY, MK-6/HY ES, RG and MK-65.

1B. **Roof Assembly — (Not Shown) —** As an alternate to Items 1 and 1A, a fire-rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the roof deck.

1C. **Roof Assembly —** As an alternate to Items 1, 1A, and 1B, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:

A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** As specified in the individual P700 Series Design.

C. **Spray — Applied Fire Resistive Materials*** — (Not Shown) — Prior to the installation of the joint system (Item 3), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.
GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY, MK-6/HY ES, RG and MK-65.

2. **Wall Assembly —** Min 6 in. (152 mm) thick reinforced lightweight or normal weight (100–150 pcf or 1600–2400 kg/m^3) structural concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. For Joint Configuration B, wall to be centered beneath valley of fluted steel floor or roof deck.
See **Concrete Blocks*** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

For Joint Configuration A, the hourly assembly rating of the joint system is equal to the hourly fire rating of the wall assembly. For Joint Configuration B, the max assembly rating of the joint system is 2 hr.

3. **Joint System — For unprotected steel floors units or roof decks (D900 or P900 Series Designs), max separation between bottom of floor or roof and top of wall (at time of installation of joint system) is 2 in. (51 mm). For protected steel floors units or roof decks (D700 or P700 Series Designs), max separation between bottom of spray-applied fire resistive material and top of wall (at time of installation of joint system) is 1 in. (25 mm). The joint system is designed to accommodate a max 25 percent compression or extension from it's installed width. The hourly assembly rating of the joint system is dependent upon the joint configuration and the max hourly fire rating of the wall assembly. When Joint Configuration B is used, max Assembly Rating of joint system is 2 hr.** The joint system shall consist of the following:

Joint Configuration A

A. **Forming Material*** — Min 6 or 6-5/8 in. (152 or 168 mm) thickness of 4 pcf (64 kg/m^3) mineral wool batt insulation, for 2 and 3 hr rated assemblies, respectively, cut to the shape of the fluted deck, approx 25 percent larger than the area of the flutes and compressed into the flutes of the steel floor units, roof deck or spray-applied fire resistive material. Additional min 6 or 6-5/8 in. (152 or 168 mm) wide sections of mineral wool batt insulation, for 2 and 3 hr rated assemblies, respectively, are compressed 50 percent in thickness and installed cut edge first to fill the gap between the top of the wall and bottom of the steel floor units, roof deck or spray-applied fire resistive material. The forming material shall be installed flush with both surfaces of the wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Safing Insulation

ROCKWOOL MALAYSIA SDN BHD — SAFE Mineral Wool

ROCKWOOL — SAFE Mineral Wool

THERMAFIBER INC — SAF Mineral Wool

A1. **Spray-Applied Fire Resistive Material* — (Not Shown) —** As an alternate to the forming material (Item 3A) within the flutes, min 6 or 6-5/8 in. (152 or 168 mm) depth of spray-applied fire resistive material, for 2 and 3 hr rated assemblies, respectively, installed into the flutes of the steel floor, roof deck or spray-applied fire resistive material. Material shall be excluded from the max 2 in. (51 mm) wide joint immediately above the top of the concrete wall. The spray-applied fire resistive material is mixed with water in accordance with the mixing instructions on the bag and is sprayed and/or troweled to completely fill the opening above the wall. The min average density of the spray applied fire resistive material shall be 15 pcf (240 kg/m^3) with a min individual density of 14 pcf (224 kg/m^3). See Design Information of Volume 1 of the Fire Resistance Directory for method of density determination.
GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY, MK-6/HY ES, RG, MK-65, Z-106/G, Z106, Z106-HY and Z-146.

A2. **Forming Material* — Plugs —** (Not Shown) — As an alternate to the forming material and spray-applied fire resistive material (Items 3A and 3A1), mineral wool plugs preformed to the shape of the fluted floor units, may be used within the flutes. Plugs shall be friction fitted to completely fill the flutes, flush with wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of concrete wall and bottom of steel floor units, roof deck or spray-applied fire resistive material. **Plugs to be used in max 2 hr fire rated wall assemblies.**
ROCK WOOL MANUFACTURING CO — Deck Plugs

B. **Fill, Void or Cavity Material* — Sealant —** Min 1/8 in. (3 mm) wet thickness of fill material spray or brush applied on each side of the wall in the flutes of the steel floor units or roof deck and between the top of the wall and the bottom of the steel floor units or roof deck and overlap a min 1/2 in. (13 mm) onto concrete wall and steel floor units, roof deck or spray-applied fire resistive material on both sides of wall. When optional through-penetrant (Item 4) is used, fill material to overlap a min of 1/2 in. (13 mm) onto conduit or EMT on both sides of wall.
SOUDAL ACCUMETRIC — Boss 137

Joint Configuration B

A. **Forming Material*** — Min 4 pcf (64 kg/m^3) density mineral wool batt insulation cut into strips with a width equal to the overall thickness of the wall. Strips are compressed 50 percent in thickness and installed cut edge first to fill the gap between the top of the wall and the bottom of the steel floor units, roof deck or spray-applied fire resistive material. The forming material shall be installed flush with both surfaces of the wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Safing Insulation

ROCKWOOL MALAYSIA SDN BHD — SAFE Mineral Wool

ROCKWOOL — SAFE Mineral Wool

THERMAFIBER INC — SAF Mineral Wool

B. **Fill, Void or Cavity Material* — Sealant —** Min 1/8 in. (3 mm) wet thickness of fill material spray or brush applied on each side of the wall to completely cover the mineral wool forming material and to overlap a min 1/2 in. (13 mm) onto concrete wall and steel floor units, roof deck or spray-applied fire resistive material on both sides of wall.
SOUDAL ACCUMETRIC — Boss 137

4. **Through Penetrant —** (Optional, Not Shown) — Max 1-1/2 in. (38 mm) diam steel conduit or steel electrical metallic tubing (EMT) may be installed parallel with and within the flutes of the steel floor or roof deck when Joint Configuration A is used. The conduit or EMT shall be located near the mid-depth of the steel deck with a clearance of 1/2 to 1-1/2 in. (13 to 38 mm) between the conduit or EMT and the steel deck. Conduit or EMT to be rigidly supported on both sides of the wall assembly. A max of one conduit or EMT is permitted in an individual flute. **When a conduit or EMT is installed in the flute of the steel deck, the max assembly rating of the joint system is 2 hr.**

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2016-04-14

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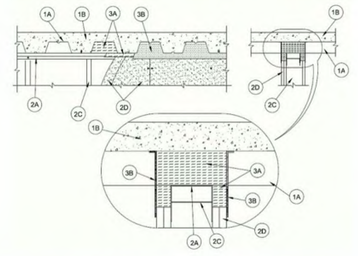
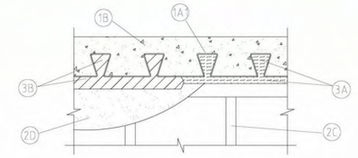
UL SYSTEM NO HW-D-0042

System No. HW-D-0042

August 26, 2021

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Items 2 and 3A)	F Ratings — 1 and 2 Hr (See Items 2 and 3A)
Nominal Joint Width — 1 In.	FT Ratings — 1 and 2 Hr (See Items 2 and 3A)
Class II Movement Capabilities — 50% Compression or Extension	FH Ratings — 1 and 2 Hr (See Items 2 and 3A)
L Rating At Ambient — Less Than 1 CFM/Lin Ft	FTH Ratings — 1 and 2 Hr (See Items 2 and 3A)
L Rating At 400°F — Less Than 1 CFM/Lin Ft	Nominal Joint Width — 1 In.
	Class II Movement Capabilities — 50% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/Lin Ft
	L Rating At 400°F — Less Than 1 CFM/Lin Ft





CONFIGURATION B

1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor And Form Units*** — Max 3 in. (76 mm) deep galv steel fluted units.

A1. **Steel Floor And Form Units* (Configuration B) —** Composite max 2.5 in. (64 mm) deep galv steel fluted units.

EPIC METALS CORP — Types "EC" or "Toris C"

A2. **Steel Floor And Form Units* (Configuration B) —** Composite max 2 in. (51 mm) deep galv steel fluted units.

NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Dek®

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Spray-Applied Fire Resistive Materials*** — (Optional, Not Shown) — Prior to or after the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B, respectively) the steel floor units may be sprayed with a min 5/16 in. (8 mm) to max 1-3/4 in. (45 mm) thickness of fire resistive material.
GCP APPLIED TECHNOLOGIES INC — Types MK-6-HY or MK-10HB

ISOLATEK INTERNATIONAL — Type 300

1A. **Roof Assembly —** (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

A1. **Steel Floor And Form Units* (Configuration B) —** Composite max 2.5 in. (64 mm) deep galv steel fluted units.
EPIC METALS CORP — Types "Toris C" or "ERZRI"

A2. **Steel Floor And Form Units* (Configuration B) —** Composite max 2 in. (51 mm) deep galv steel fluted units.

NEW MILLENNIUM BUILDING SYSTEMS L L C — Versa-Dek®

B. **Roof Insulation —** Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the floor units.

1B. **Roof Assembly —** As an alternate to Items 1 and 1A, a fire rated protected fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features:
A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

A1. **Steel Floor And Form Units* (Configuration B) —** Composite max 2.5 in. (64 mm) deep galv steel fluted units.
EPIC METALS CORP — Type "Toris C"

B. **Spray Applied Fire Resistive Materials* —** (Not Shown) — Prior to or after the installation of the steel ceiling runners, Forming Material and Fill, Void or Cavity Material (Items 2A, 3A, 3B), the roof assembly shall be sprayed with the type and thickness of fire resistive material indicated in the individual P700 Series design.
GCP APPLIED TECHNOLOGIES INC — Types MK-6-HY or MK-10HB

ISOLATEK INTERNATIONAL — Type 300

2. **Wall Assembly —** The 1 or 2 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. **Steel Floor And Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of galv steel channels sized to accommodate steel studs (Item 2C). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC, before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.

A1. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2C). Slotted ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel fasteners or welds spaced max 24 in. (610 mm) OC before optional spray-applied fire resistive material is used. Ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK

CALIFORNIA EXPANDED METAL PRODUCTS CO — CST

CLARKDIETRICH BUILDING SYSTEMS — Type SLT, SLT-H

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — SDT250, SDT300

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

METAL-LITE INC — The System

OLMAR SUPPLY INC — STT250, STT300

R & P SUPPLY — SCT250, SCT300

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing* — Vertical Deflection Ceiling Runner —** When the nom joint width is less than or equal to 3/4 in. (19 mm), vertical deflection ceiling runner may be used as an alternate to the ceiling runners in Items 2A and 2A1. Vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips provided with step bushings for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2C). Vertical deflection ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC, before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
THE STEEL NETWORK INC — Verstrack VTD250, VTD362, VTD400, VTD600 and VTD800

A3. **Light Gauge Framing* — Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A3, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2C). Notched ceiling runner installed perpendicular to direction of fluted steel deck and secured to valleys with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC, before or after optional spray-applied fire resistive material is used. The use of welds to secure the ceiling runner may only be used prior to the installation of the optional spray-applied material.
OLMAR SUPPLY INC — Type SCR

B. **Steel Attachment Clips —** (Optional — Not Shown) — When spray applied fireproofing is used ceiling runner may be secured to deck with Z-shaped clips formed from min 1 in. (25 mm) long strips of min 20 ga galv steel. Length of clips should not exceed the width (thickness) of the wall. Clips to be sized to extend through the thickness of the spray-applied fire-resistive material on the bottom of the steel deck with 1-1/2 or 2 in. (38 or 51 mm) long upper and lower legs. Legs of clips fastened to valleys of steel deck (prior to application of spray-applied fire-resistive materials) and top of ceiling runner with steel masonry anchors, steel fasteners or welds. Clips spaced max 24 in. (610 mm) OC.

C. **Studs —** Steel studs to be min 2-1/2 in. (64 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in and resting on floor runner and with top nesting in ceiling runner without attachment. When Epic Metals composite floor or roof deck (Item 1A1) is used, steel studs to be min 3-5/8 in. (92 mm) wide. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection ceiling runner (Item 2A2) is used, steel studs secured to slotted vertical deflection clips, through the bushings, with steel screws at midheight of each slot. Stud spacing not to exceed 24 in. (610 mm) OC.

D. **Gypsum Board*** — Gypsum board installed to a min total thickness of 5/8 in. and 1-1/4 in. (16 and 32 mm) on each side of wall for 1 and 2 hr rated assemblies, respectively. Wall to be constructed as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory, except that a max 1 in. (25 mm) gap shall be maintained between the top of the gypsum board and the bottom of the steel deck units and the top row of screws shall be installed into the studs 1-1/2 to 2 in. (38 to 51 mm) below the bottom of the ceiling runner. **The hourly rating of the joint system is dependent on the hourly rating of the wall.**

3. **Joint System — Max separation between bottom of floor or roof and top of wall at time of installation of joint system is 1 in. (13 mm).** The joint system is designed to accommodate a max 50 percent compression or extension from its installed width. The joint system consists of forming material and a fill material, as follows:
A. **Forming Material* —** Nom 4 pcf (64 kg/m^3) density mineral wool batt insulation cut with a length approx equal to the overall thickness of the wall. Multiple pieces stacked on top of each other, as needed, and then compressed 25 percent in thickness and inserted into the flutes of the steel deck above the top of the ceiling runner. The mineral wool batt insulation is to project beyond each side of the ceiling runner, flush with wall surfaces. Alternately, nom 4 pcf (64 kg/m^3) forming material cut to shape of flute and nom 1 in. (25 mm) longer than thickness of wall, mineral wool compressed from ends and firmly packed into each flute to attain a min compression rate of 14.3 percent in the length (wall thickness) direction to be flush with both wall surfaces. When Composite Steel Form and Floor Units (Items 1A1, 1A2) are used, the mineral wool is to be tightly packed into the inverted flutes to the full thickness of the wall. In addition, for the Epic Metals "Toris C" deck, the mineral wool is to be packed to min 25% compression within the recessed indentations immediately above the ceiling runners. For the New Millennium Versa-Dek, pieces of mineral wool ball be packed to the maximum depth possible to fill any embossments within the valleys of the fluted deck. Additional 5/8 in. and 1-1/4 in. (16 and 32 mm) wide strips for 1 and 2 hr rated assemblies, respectively, of nom 4 pcf (64 kg/m^3) mineral wool batt insulation are to be cut to fill the gap between the top of the gypsum board and bottom of the steel deck. The strips of mineral wool are compressed 50 percent and tightly packed, cut edge first, into the gap between the top of the gypsum board and bottom of the steel deck on both sides of the wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

ROCK WOOL MANUFACTURING CO — Delta- Board

ROCKWOOL — SAFE

THERMAFIBER INC — Type SAF

A1. **Forming Material* — Plugs —** (Optional, Not Shown) — Preformed mineral wool plugs, formed to the shape of the trapezoidal fluted floor units, friction fit to completely fill the flutes above the ceiling channel. The plugs shall project beyond each side of the ceiling runner, flush with wall surfaces. Additional forming material, described in Item 3A, to be used in conjunction with the plugs to fill the gap between the top of gypsum board and bottom of steel floor units.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP777 Speed Plugs

A2. **Forming Material* — Strips —** (Optional) — Nom 5/8 in. and 1-1/4 in. (16 and 32 mm) wide by 2 in. (51 mm) high precut mineral wool strips for 1 and 2 hr rated assemblies respectively. The strips are compressed 50 percent and firmly packed, cut edge first, into the gap between the top of gypsum board and bottom of steel floor units on both sides of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 767 Speed Strips

B. **Fill, Void or Cavity Material* —** Min 1/16 in. (1.6 mm) dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material sprayed or troweled on each side of the wall to completely cover mineral wool forming material and to overlap a min of 1/2 in. (13 mm) onto gypsum board and steel deck on both sides of wall. When **Spray-Applied Fire Resistive Material*** is applied to the **Steel Floor and Form Units*,** the fill material is to overlap the gypsum board a min of 1/2 in. (13 mm) and the Spray-Applied Fire Resistive Material a min of 2 in. (51 mm) on both sides of wall. When spray-applied fire resistive materials are used, the firestop joint spray shall overlap the wall a min 1/2 in. (13 mm) and overlap the spray-applied fire resistive material a min of 2 in. (51 mm) on both sides of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SP WB Firestop Joint Spray

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2021-08-26

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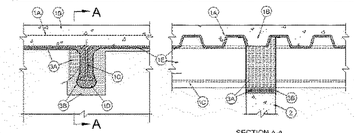
UL SYSTEM NO HW-D-0248

System No. HW-D-0248

January 26, 2018

ANSI/UL2079	CAN/ULC S115
Assembly Rating — 2 Hr	F Rating — 2 Hr
Nominal Joint Width - 1 In.	FT Rating —2 Hr
Class II Movement Capabilities — 13% Compression or Extension	FH Rating — 2 Hr
	FTH Rating — 2 Hr
	Nominal Joint Width - 25 mm
	Class II Movement Capabilities —13% Compression or Extension



SECTION A-A

1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Floor Units*** — Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Structural Steel Support —** (Optional) — Steel beam or open-web steel joist, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support oriented perpendicular to wall assembly. Where open-web steel joists pass through the fire-rated wall, 3/8 in. (10 mm) diamond mesh expanded steel lath having a nom weight of 1.7 to 3.4 lb per sq yd (0.9 to 1.8 kg/m^2) shall be secured to one side of each joist with steel tie wire and the lath shall be fully covered with spray applied fire resistive material with no min thickness requirement.

D. **Spray-Applied Fire Resistive Material*** — Steel floor units and structural steel supports to be sprayed in accordance with the specifications in the individual D700 Series Design or the structural steel supports to be sprayed in accordance with the specifications in the individual D900 Series Design .
GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY

2. **Wall Assembly —** Min 6-1/8 in. (156 mm) thick steel-reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall shall be installed parallel to the flutes of the steel floor and form units. A min clearance of 1 in. (25 mm) to a max clearance of 3 in. (76 mm) shall be maintained between the wall and the spray applied fire resistive material on the two sides of the structural support member. Wall may also be constructed of any UL Classified **Concrete Blocks***.
See **Concrete Blocks** (CAZT) category in Fire Resistance Directory for names of manufacturers.

3. **Joint System — Max separation between bottom of the spray applied fire resistive material on the lowest portion of steel floor units and top of wall (at time of installation of joint system) is 1 in. (25 mm) when D700 series assembly is used. Max separation between bottom of the steel floor units and top of gypsum board (at time of installation of joint system) is 1 in. (25 mm) when D900 series assembly is used. Max separation between spray applied fire resistive material on bottom of structural support member and top of wall is 1 in. (25 mm). The joint system is designed to accommodate a max 13 percent compression or extension from it's installed width as measured between the spray applied fire resistive material on the steel floor units and the top of wall.** The joint system shall consist of forming and fill materials, as follows:

A. **Forming Material* —** Nom 4 pcf (64 kg/m^3) mineral wool batt insulation cut to a min 6-1/8 in. (156 mm) length, compressed a min of 25 percent in thickness and installed cut edge first to completely fill the gap above the wall, flush with both surfaces of wall. Additional nom 4 pcf (64 kg/m^3) mineral wool batt insulation compressed a min of 25 percent in thickness to be installed to completely fill the flutes of the steel floor and form units located above wall. Nom 4 pcf (64 kg/m^3) mineral wool batt insulation cut to a min 6-1/8 in. (156 mm) length, compressed a min of 25 percent in thickness and installed cut edge first to completely fill the gap between the spray applied fire resistive material on the structural steel member and the wall.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL MALAYSIA SDN BHD — Type Safe

ROCKWOOL — Type Safe

THERMAFIBER INC — Type SAF

B. **Fill, Void or Cavity Material* —** Min 1/16 in. dry thickness (1/8 in. or 3.2 mm wet thickness) of fill material sprayed over the forming material on each side of the wall. Fill material to overlap a min of 1/2 in. (13 mm) onto the wall and a min 2 in. (51 mm) onto the deck or the spray applied material (Item 1C) on the steel floor unit and on the structural steel support member on both sides of wall.
3M COMPANY — Firedam ™ Spray 200

B1. **Fill, Void or Cavity Material* — Tape —** As an alternate to Item B, Tape cut to size and press applied to completely cover mineral wool between bottom of floor and top of wall. Tape to overlap a min of 1 in. (25 mm) onto the wall and a min 2 in. (51 mm) onto the deck or the spray applied material (Item 1C) on the steel floor unit and on the structural steel support member on both sides of wall. All adjoining lengths of tape shall overlap min 1/2 in. (13 mm).
3M COMPANY — 3M Fire and Water Barrier Tape

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2018-01-26

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

LICENSED ARCHITECT
ANDREA L. DAVIS
C27266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
UL LISTINGS - HW-D-0415, HW-D-0042, HW-D-0248,

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UL DESIGN NO U415

Design No. U415

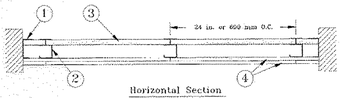
December 22, 2020

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

System A - 1 Hr.

System B - 2 Hr.



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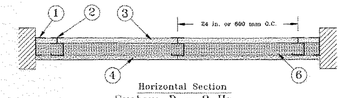

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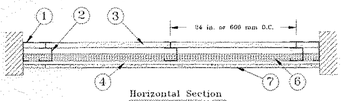

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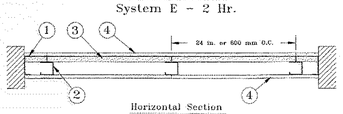

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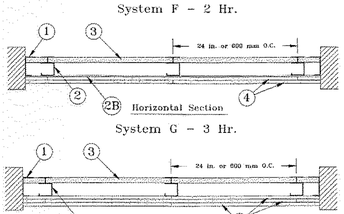
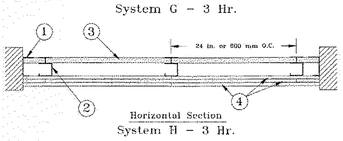
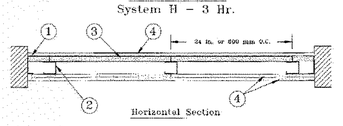


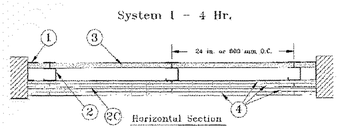
System G - 3 Hr.



System H - 3 Hr.



System I - 4 Hr.



1. **Floor, Side and Ceiling Runners** — "J" - shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B, 4C, 4D or 7 are used) galv steel.

Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" - shaped studs (Item 2A) may be used as side runners in place of "J" - shaped runners.

2. **Steel Studs —** "C-H" - shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B, 4C, 4D or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC (max 16 in. OC when Items 4A, 4B, 4C, or 4D are used).

2A. **Steel Studs —** (Not Shown) — "E" - shaped studs installed back to back in place of "C-H" - shaped studs (Item 2) "E" - shaped studs secured together with steel screws spaced a maximum 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.

2B. **Furring Channels —** (Optional, Not Shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C-H" or "E" stud on side of stud opposite the 1 in. liner panels with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementious backer units (Item 7).

2C. **Furring Channels —** For use with System I - "Hat" - shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to each stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

2D. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementious backer units (Item 7).

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep; spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2D) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips. RSIC-1 clip for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) clip for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-3 (2.75)

2E. **Steel Framing Members* —** (Optional, Not Shown) — Furring channels and Steel Framing Members as described below. . Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementious backer units (Item 7).

a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.Gypsum board attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ea) to studs. Clips spaced 24 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

2H. **Steel Framing Members*** — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementious backer units (Item 7).

a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 2Ha) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC- Assurance Clip

2I. **Steel Framing Members* —** (Optional, Not Shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum board, lead backed gypsum boards (Items 4A-4D), or cementitious backer units (Item 7).

a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board installed vertically only and attached to furring channels as described in Item 4.

b. **Steel Framing Members* —** Used to attach furring channels (Item 2Ia) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC., and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

3. **Gypsum Board* —** Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" - runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.
CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. **Gypsum Board* —**

System A — 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, WRC, WRX, USGX.

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, WRC, WRX

System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — 1/2 in. Types C, 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 4 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C, 5/8 in. Types C, SCX, SGX, USGX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, USGX, WRC, WRX

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Types C and SCX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SGX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C, 5/8 in. Types C, SCX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. . Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the framing of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, ULIX, WRC

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type C

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX, WRC

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I — 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (inner) layers applied vertically or horizontally over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — Type ULTRACODE

USG MEXICO S A DE C V — Types IP-X3 or ULTRACODE

4A. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).
RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or #6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Type Nelco

4C. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A). Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 10 ft long with a max thickness of 0.140 in., placed on the face of studs and attached to the stud with two 1 in. long Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip.
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4D. **Gypsum Board* —** (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer. For direct attachment only) — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.080 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201I, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5. **Joint Tape and Compound** — (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. **Batts and Blankets* —**

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m³

THERMAFIBER INC — Type SAFB, SAFB FF

7. **Cementitious Backer Units* —** (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long, Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.
UNITED STATES GYPSUM CO — Type DCB

8. **Laminating Adhesive* —** (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 Type 1 organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (BYWR) in the Fire Resistance Directory or Adhesives (BLIZ) in the Building Materials Directory for names of Classified companies.

9. **Lead Batten Strips —** (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201I, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Required behind vertical joints.

9A. **Lead Batten Strips —** (Not Shown, for use with Item 4C) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201I, Grades "B, C or D".

10. **Lead Discs or Tabs —** (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.5% meeting the Federal specification QQ-L-201I, Grade "C".

10A. **Lead Discs —** (Not Shown, for use with Item 4C) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201I, Grades "B, C or D".

11. **Lead Batten Strips —** (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201I, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. **Lead Tabs —** (Not Shown, For Use With Item 4B) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201I, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-12-22

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UL SYSTEM NO. W-L-7277

UL Product iQ®

XHEZ.W-L-7277 - Through-penetration Firestop Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHEZ - Through-penetration Firestop Systems
XHEZ7 - Through-penetration Firestop Systems Certified for Canada

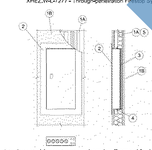
See General Information for Through-penetration Firestop Systems

See General Information for Through-penetration Firestop Systems Certified for Canada

System No. W-L-7277

October 28, 2019

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1 and 2 Hr (See Item 1)	FT Ratings — 1 and 2 Hr (See Item 1)
	FH Ratings — 1 and 2 Hr (See Item 1)
	FTH Ratings — 1 and 2 Hr (See Item 1)



1. **Wall Assembly —** The 1 or 2 hr fire rated framed gypsum board wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing shall consist of steel channel studs. Steel studs to be min 6 in. (152 mm) wide and spaced max 24 in. (610 mm) OC. Vertical wall framing member to be located within 3/4 in. (19 mm) to each side of steel box (Item 2). An additional framing member shall be used below the steel box to form a shelf within the wall cavity to support the steel box.

B. **Gypsum Board* —** The gypsum board type, thickness, number of layers and orientation shall be, as specified in the individual Wall and Partition Design. Size of cutout made to accommodate steel box (Item 2) is to be max 1 in. (25 mm) wider and 1/2 in. (13 mm) higher than the width and height of the steel box such that the annular space between box and cut edge of gypsum is max 1/2 in. (13 mm) at sides and top of opening and point contact at bottom of opening.
The hourly F, T, FT, FH and FTH Ratings are equal to the hourly rating of the wall assembly.

2. **Steel Box —** Min 18 gauge steel. Max 20-1/8 in. (511 mm) wide by max 42 in. (1067 mm) high by max 5-3/4 in. (146 mm) deep with integral steel hinged door. Box to be installed flush with one side of wall and provided with min 4 in. (102 mm) by 18 gauge steel mounting flange (trim) overlapping gypsum board around periphery of opening. Steel box secured to steel studs at two sides of opening with steel bolts after application of Fill, Void or Cavity material (Item 3) on exterior surfaces of steel box. A min of four toggle bolts, or four min 1/4 in. (6 mm) steel bolts with washer and machine nut, shall be used at each side of box, with two bolts located within 12 in. (305 mm) of top of box and two within 12 in. (305 mm) of bottom of box. Bottom of box to rest directly on steel shelf. Bottom and/or top of steel box may be penetrated by max five 2 in. (51 mm) diam steel conduit and four 1 in. (25 mm) diam flexible steel conduit, or by up to nine 1 in. (25 mm) diam flexible steel conduit. A conduit fitting shall be used at each connection of conduit to the box.

3. **Fill, Void or Cavity Materials* • Putty Pads —** One layer of min 0.2 in. (5 mm) thick moldable putty pads is to be installed to completely cover the exterior surfaces of the steel box (except for the bottom). For 2 hr F, T, FT and FTH Ratings, an additional layer (two total layers) of the putty pads shall be applied to the back of the box. A min 1/2 in. (13 mm) bead of the putty shall be applied around the periphery of each conduit fittings/connectors. At all mating edges, the putty pads shall be press applied to butt tightly so that the box is fully covered with the required number of layers of putty.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-P PA Firestop Putty Pads or CP 617(-L, -XL) Firestop Putty Pads

4. **Fill, Void or Cavity Material*— Sealant or Putty —** Min 1/2 in. (13 mm) depth of sealant or putty shall be applied within the open ends of the conduits which terminate within the box.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant or CP 618 Putty

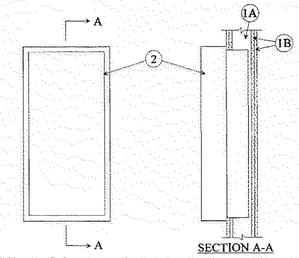
5. **Insulation* —** The entire wall stud cavity with the steel box (Item 2) and the immediately adjacent stud cavity to each side shall be fully installed with min R19 glass fiber batt insulation or mineral wool insulation. Additional pieces of insulation shall

UL SYSTEM NO. W-L-7004

System No. W-L-7004

July 21, 2020

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 2 Hr	FT Rating — 2 Hr
	FH Rating — 2 Hr
	FTH Rating — 2 Hr



1. **Wall Assembly —** The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs —** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board* —** Two layers of nom 5/8 in. (16 mm) thick gypsum wallboard, as specified in the individual Wall

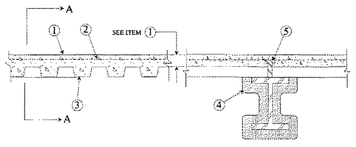
UL DESIGN NO D925

Design No. D925

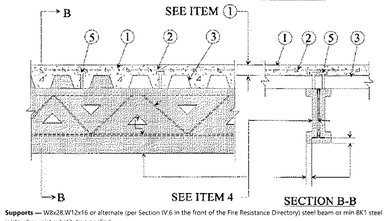
December 16, 2021

Restrained Assembly Ratings — 3/4, 1, 1-1/2, 2 or 3 Hr (See Items 1, 3A, 6, 10 and 11)
Unrestrained Assembly Rating — 0 Hr (See Items 3, 3A, 4, 4A, 10 and 11)
Unrestrained Beam Ratings — 1, 1-1/2, 2, 3 and 4 Hr (See Items 4, 4A, 10 and 11)
Restricted Load Condition — See Supports and Item 4C
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide 8XUV or 8XUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



SECTION A-A



SECTION B-B

Supports — W8x28,W12x16 or alternate (per Section IV 6 in the front of the Fire Resistance Directory) steel beam or min 8K1 steel joists when joist substitution applied.

1. **Normal Weight or Lightweight Concrete —** Normal weight concrete carbonate or siliceous aggregate, 3500 psi compressive strength, vibrated. Lightweight concrete, expanded shale, or slate aggregate by rotary-kiln method, or expanded clay aggregate by rotary-kiln or sintered-grate method, or pumice aggregate, 3000 psi compressive strength, vibrated, 4 to 7 percent entrained air.

Restrained Assembly Rating Hr	Concrete (Type)	Concrete Unit Weight pcf	Concrete Thkns In.
1	Normal Weight	147-153	3-1/2
1-1/2	Normal Weight	147-153	4
2	Normal Weight	147-153	4-1/2
3	Normal Weight	147-153	5- 1/4
3/4 or 1	Lightweight	107-113	2-1/2
1	Lightweight	107-120	2-5/8
1-1/2	Lightweight	107-113	3
2	Lightweight	107-113	3-1/4
2	Lightweight	107-116	3- 1/4*
2	Lightweight	114-120	3-1/2
3	Lightweight	107-113	4-3/16
3	Lightweight	114-120	4-7/16

*For use with 2 or 3 in. steel floor and form units only.

2. **Welded Wire Fabric —** 6 x 6, 10 x 10 SWG.

2A. **Negative Reinforcement —** (Not Shown) - Optional - For 3/4, 1, 1-1/2 and 2 Hr Restrained Assembly Rating Only. Used in lieu of Item 2 and with Items 2B or 2C. For floor slabs with concrete cast continuous over the supporting beams. Deformed bars designed to resist the support moments of the concrete slab in accordance with the latest ACI Building Code Specifications.

2B. **Fiber Reinforcement* —** (Not Shown) - For 3/4, 1, 1-1/2 and 2 Hr Restrained Assembly Rating Only. Required with Item 2A. Engineered synthetic fibers added to concrete mix to control shrinkage cracks in concrete. Fibers added to concrete mix at rate of 5 lbs of fiber for each cubic yard of concrete.
GCP APPLIED TECHNOLOGIES INC — Type Strux 90/40.

2C. **Fiber Reinforcement* —** (Not Shown) - For 3/4, 1, 1-1/2 and 2 Hr Restrained Assembly Rating Only. Required with Item 2A. Engineered synthetic fibers added to concrete mix to control shrinkage cracks in concrete. Fibers added to concrete mix at rate of 1 lbs of fiber for each cubic yard of concrete (Fibermesh 150) or 1.5 lbs of fiber for each cubic yard of concrete (Fibermesh 300).
PROPEX OPERATING CO L L C — Types Fibermesh 150 and Fibermesh 300.

3. **Steel Floor and Form Units* —** Composite or Non-Composite, 1-1/2, 1-5/8, 2 or 3 in. deep galv units or 4-1/2 in. deep non-composite galv units. Fluted units may be uncoated or phosphatized/painted. Min gauges are 22 MSG for fluted and 20/20 MSG for cellular units. The following combinations of units may be used:
(1) All 18, 24, 26 28 or 36 in. wide cellular.

(2) All fluted

(3) One or two 3 in. deep, 12 in. wide, 18/18 MSG min cellular units, alternating with 3 in. deep fluted or other cellular.

(4) Any blend of fluted and 18, 24, 26, 28, or 36 in. wide cellular.

(5) 3 in. deep, 30 in. wide cellular with 8-1/8 in. wide valley alongside joints may be used when 3/8 in. diam reinforcing bars are placed 1-1/2 in. to each side of side joints and 1 in. above bottom of units.

(6) Corrugated, 1-5/16 in. deep, 30 in. wide, 24 MSG min galv units with shear wires factory welded to deck corrugations. Welded to supports 12 in. OC. through welding washers. For shear wire spacing of 8 in. or less the steel deck stress shall not exceed 20 KSI. For shear wire spacing greater than 8 in. OC, but less than or equal to 12 in. OC, steel deck stress shall not exceed 12 KSI.

ASC STEEL DECK, DIV OF ASC PROFILES L L C — 32 in. wide Types NH-32, NHN- 32, NHF-32; 36 in. wide Types BH-36, BHN-36, BHN-35- 1/4, BHF-36, BHF-36A, 2WH-36, 2WHG-36, 2WHF-36, 2WHF-36A, 3WH-36, 3WHF-36A, 3WM-38, 3WHF-36, 3W-36, 3WF-36, DG3W-36, DG3WF-36. All units may be galvanized or Prime Shield. Non-cellular decks may be vented designated with a "V" suffix to the product name. Cellular deck top and bottom sections may be riveted together (designated with "R") vs. arc spot welded, "F".

CANAM GROUP INC — 36 in. wide Type P-3623, P-3606, P-3615 and 24 in wide Type P-2432 composite, 24 or 36 in. wide Type 3 in. LOK-Floor; 36 in. wide Types 1.5B, 1.5B1, 1.5BL and 1.5BL.

CANAM STEEL CORP — 24 in. wide, Types 1-1/2, 2 or 3 in. LOK-Floor and LOK-Floor Cell. 36 in. wide, Types 2 or 3 in. LOK-Floor and LOK-Floor Cells; 24 in. wide, Types N-LOK and N-LOK Cell; 24, 30 or 36 in. wide, Type 1-1/2 in. B-LOK and B-LOK Cell.

NEW MILLENNIUM BUILDING SYSTEMS L L C — 24 in. wide Type Versa-Deck.

DECK WEST INC — 36 in. wide Type B-DW; 2-DW or 3-DW. Side joints of 2-DW and 3-DW may be fastened together with min 1 in. long No. 12 x 14 self-drilling, self-tapping steel screw 36 in. OC.

DESIGN ASSISTANCE CONSTRUCTION SYSTEMS INC — 36 in. wide Type DACS1.5CD, or 24 in. wide Type DACS2.0CD, or DACS3.0CD.

EPIC METALS CORP — 24 in. wide Types ECI150, ECP150, ECI300, ECP300, ECI366, ECP366, ECI150, ECI300 inverted. Epicore A; 30 in. wide Types ECB150, ECBR150; 36 in. wide Types EC266.

H H ROBERTSON — QL Types, 24 in. wide 3 or 3 inverted, LKX, LKX-3, 2 in. 99, AKX, 21 or 21 inverted. 121, MKX, TKX; 24 or 30 in. wide GKX, GKX-A; 36 in. wide 99, AKX, WKX,24 26, 94, 36 in. wide NKX, 1.5NKC, NKC, AKX, 2 or 3 in. TKC; 12 in. wide noncomposite Sec. 12; 17 in. wide 21; 26 or 28 in. wide LKX, B7.5 cm wide, Side joints of QL 99, 121, WKX, TKX, TKC, and Metric units — QL 77-900; QLC-78-900; may be welded together 60 in. OC. Side joints of 99, AKX, WKX, GKX, GKX-A, TKX and Metric units — QL-77-900 and QLC-78-900 may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC.

MAMBRO STRUCTURAL SYSTEMS, DIV OF CANAM STEEL CORP — 36 in. wide, 1-1/2 in. Type P3615HB. The max superimposed loadings for Type P3615HB units shall not exceed 250 PSF. For single spans, the use of the units shall be limited to 5 ft. 6 in., 6 ft 0 in. and 6 ft 6 in. max spans for the 22, 20 and 18 gauge units, respectively. For multiple spans, 18 gauge units may be used on a max 7 ft 6 in. span with a max total superimposed loading of 240 PSF.

KAM INDUSTRIES LTD, DBA CORDECK — 24 in. wide Types 2 or 3 in. WDR.

MARLYN STEEL DECKS INC — Type 1.5 CI, 2.0 CF or 3.0 CF.

NEW MILLENNIUM BUILDING SYSTEMS L L C — 24 or 36 in. wide Types 2.0CD, 3.0CD, 2.0CFD, 3.0CFD, 3.0CFDES; 24, 30 or 36 in. wide Types 1.5CD, 1.5CDI, 1.5CDR, 1.5CFD. Fluted units may be uncoated, phos/painted or galvanized.

STEEL MASTERS INTERNATIONAL DEPENDABLE STEEL — 36 in. wide Types ZWH-36, 3WH-36. Units may be phos/painted or galvanized.

VALLEY JOIST • DECK — 24 or 36 in. wide Types WVC 1-1/2 or WVC 2.

VERCO DECKING INC - A NUCOR CO — FORMLOK™ deck types PLB, B, BR, PLN3, N3, PLN, N, PLW2, W2, PLW3, W3. Units may be galvanized, phos./pntd, or mill finish. Units may be cellular or acoustical cellular, with the suffix "CD" or "CD-AC" added to the product name, respectively. All non-cellular deck may be vented or non-vented 12 in. wide PLW2, W2, PLW3 or W3 units may be blended with 24 or 36 in. wide PLW2, W2, PLW3 or W3 units, respectively; or Types N3, PLN3, N3-CD, PLN3-CD.

VULCRAFT, DIV OF NUCOR CORP — 24, 30 or 36 in. wide, Type 1.5 VL, 1.5 VLI, 1.5PLVLI, 1.5 VLP, 1.5PLVLP, 24 or 36 in. wide Types 2VLI, 2.0PLVLI, 2VLP, 2.0PLVLP, 3VLI, 3.0PLVLI, 3 VLP, 3.0PLVLP. 36 in. wide Types 1.5 SB, 1.5 SBR; 24 or 36 in wide Types 2.0 SB, 3.0 SB. 36 in. wide Type High Strength 1.5 SBI. 36 in. wide Type High Strength 1.5 SBN.

Components for field-assembled cellular metal raceway units:

Raceway Bottom — 24 or 36 in. wide Types 212 VS, 312 VS .

Raceway Cover Plate — Types CP-12, CP-16.

Raceway Divider — Type DC-20, DC-25.

Raceway Isolation Trough — Types T-20, T-25, T-30.

Spacing of welds attaching units to supports shall be 12 in. OC for 12, 24 and 36 in. wide units; four welds per sheet for 30 in. wide units, 6 in. OC for 18 in. wide and Sec. 12 units. Unless noted otherwise, adjacent units button-punched or welded together 36 in. OC alongside joints. Adjacent 18 in. wide units welded together 30 in. OC alongside joints. For 3 Hr Rating, units with overlapping type side joints welded together 24 in. OC max.

The Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating for a max of 3 Hr and is limited to the following floor units and spans:

(a) 1-1/2, 2 and 3 in. deep, 24 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft, 8 in.

(b) 1-1/2, 2 and 3 in. deep, 24 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft, 8 in.

(c) 1-1/2 and 2 in. deep, 24 in. wide, 16 MSG or thicker fluted and 18/18 MSG or thicker cellular with clear spans not more than 9 ft, 11 in.

(d) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear spans not more than 13 ft, 2 in.
For assemblies utilizing 3-1/4 in. lightweight concrete topping with a max Restrained Assembly Rating of 2 Hr, the Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating and is limited to the following floor units and spans:

(a) 1-1/2, 2, and 3 in. deep, 24 or 36 in. wide, 22 MSG fluted and 20/20 MSG cellular with clear spans not more than 9 ft, 6 in.

(b) 2 and 3 in. deep, 24 or 36 in. wide 20 MSG fluted and 20/20 MSG cellular with clear spans not more than 10 ft, 0 in.

(c) 3 in. deep, 24 in. wide, 20 MSG fluted and 20/20 MSG cellular with clear spans not more than 13 ft, 2 in.

3A. **Steel Floor and Form Units* —** (not Shown) - As an alternate to Item 3. Norn 8 or 9 in. deep composite, galv steel units. Min thickness 0.0375 inch (20 MSG). Side joints of adjacent units fully overlapping, fastened together by using 1-1/4 in. long self-drilling, self-tapping steel screws driven through Shear-Bond Clips (not shown) at 13-3/4 in. OC. Steel end closures flashings (not shown) made of min 0.056 inch thick (16 MSG) galv steel, fixed to the steel work before decking is placed.
In addition to the Steel Floor and Form Units, the following components are required:

(a) Welded Wire Fabric — 6 X 6 - Min wire thickness W2.9 X W2.9 slab reinforcement. As an alternate, max # 4 bars spaced 12- in. OC in both directions shall be used. When re-bars are used, the concrete slab thickness shall be increased a minimum 5/16 in.

(b) Rib Reinforcement —Min. #4 rebar. Min concrete cover below the steel reinforcement shall be 1-9/16 in. Reinforcement support chairs spaced at max 41- 1/2 inches OC.
The flute areas above the beam/joist are to be : (1) filled with concrete, (2) filled with Spray-Applied Fire Resistive Material or (3) the beam/joist coated with Spray-Applied Fire Resistive Material installed as described in the design to thickness required when all cellular Steel Floor and Form Units are used.

See Design No. D989 for a typical illustration of the components. Consult the deck manufacturer for comprehensive load tables and design parameters referencing UL Design D989

BAILEY METAL PRODUCTS LTD — Type COMSLAB™ 210 and COMSLAB™ 225, Steel End Closure Flashing.

4. **Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min indi density of 15/14 pcf, respectively for Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, RG. Min avg and min ind density of 22/19, respectively for Types Z-106, Z-106/G. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	W8x28 Beam (see Note #1)	W8x28 Beam Supporting (see Note #1) All Fluted Floor Units w/Light weight Concrete	W8x28 Beam Supporting (see Note #1) Fluted Floor Units and Normal Weight Concrete Only	W12x16 Beam (see Note #1)	W12x16 Beam Supporting All Fluted Floor Unit (see Note #1)
1	1	1	1/2,	5/16,	5/16	11/16,	5/8,
			11/16#	11/16#		1-1/8#	1#
1-1/2	1	1	1/2,	5/16,	5/16	11/16,	5/8,
			11/16#	11/16#		1-1/8#	1#
1-1/2	1-1/2	1-1/2	13/16,	11/16,	5/8	1-1/8,	1,
			1-1/16#	1#		1-7/16#	1-3/8#
2	1	1	1/2,	5/16,	5/16	11/16,	5/8,
			11/16#	11/16#		1-1/8#	1#
2	2	2	1-1/16,	1,	7/8	1-7/16,	1-3/8,
			1-5/16#	1-3/16#		1-13/16#	1-9/16#
3	1-1/2	1-1/2	13/16	11/16	5/8	1-1/8	1
3	3	3	1-9/16	1-5/16	1-7/16	2-1/8	1-3/4
3	3	4	2	1-5/8	2	2-11/16	2-3/16

Note #1: Joints from the N series designs may be substituted for the listed beam. When joists are substituted, the restrained rating of the joist must be equal to or greater that the restrained rating of the assembly. Additional joist substitution requirements are contained in the front of the Fire Resistance Directory.

#This thickness applies when optional Item 10 is used over 3-1/4 in. light weight concrete topping.

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced to one-half that shown in the table.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	W8x28 Beam	W8x28 Beam Supporting All Fluted Floor Units w/Lightweight Concrete	W12x16 Beam	W12x16 Beam Supporting All Fluted Floor Unit
1	1	1	9/16	7/16+	5/8	5/8
1-1/2	1	1	9/16	7/16+	3/4	5/8
1-1/2	1-1/2	1-1/2	7/8	3/4	1-3/16	1
2	1	1	9/16	7/16+	3/4	5/8
2	2	2	1-3/16	1	1-5/8	1-3/8
3	1-1/2	1-1/2	7/8	3/4	1-3/16	1
3	3	3	1- 3/4	1- 9/16	2- 3/8	2- 1/8
3	3	4	2- 5/16	2- 1/16	3- 1/8	2- 3/4

+ Thickness applied to beams' lower flange edges shall be a minimum of 1/4 in.

ARABIAN VERMICULITE INDUSTRIES — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, Z-106, Z-106/G.

GCP KOREA INC — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, Z-106/G, Z-106.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, RG, Z-106/G, Z-106.

4A. **Alternate Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 22/19 pcf respectively for Z-106/HY. For density determination refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	W8x28 Beam Supporting (see Note #1) All Fluted Floor Units w/Lightweight Concrete	W8x28 Beam Supporting (see Note #1) Fluted Floor Units and Normal Weight Concrete Only
1	1	1	5/16, 11/16##	5/16
1-1/2	1-1/2	1-1/2	11/16, 1##	5/8
2	1	1	5/16, 11/16##	5/16
2	2	2	1, 1-3/16##	7/8
3	1-1/2	1-1/2	11/16	5/8
3	3	3	1-5/16	1-7/16
3	3	4	1-5/8	2

Note #1: Joints from the N series designs may be substituted for the listed beam. When joists are substituted, the restrained rating of the joist must be equal to or greater that the restrained rating of the assembly. Additional joist substitution requirements are contained in the front of the Fire Resistance Directory.

##This thickness applies when optional Item 10 is used over 3-1/4 in. light weight concrete topping.

ARABIAN VERMICULITE INDUSTRIES — Types Z-106/HY.

GCP APPLIED TECHNOLOGIES INC — Type Z-106/HY.

GCP KOREA INC — Type Z-106/HY.

4B. **Alternate Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 40/36 pcf respectively for Types AV-650, Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types AV800, Z-156, Z-156T and Z-156PC. For density determination refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	W8x28 Beam Supporting (see Note #1) All Fluted Floor Units w/Lightweight Concrete	W8x28 Beam Supporting (see Note #1) Fluted Floor Units and Normal Weight Concrete Only
1	1	1	5/16, 11/16##	5/16
1-1/2	1-1/2	1-1/2	11/16, 1##	5/8
2	1	1	5/16, 11/16##	5/16
2	2	2	1, 1-3/16##	7/8
3	1-1/2	1-1/2	11/16	5/8
3	3	3	1-5/16	1-7/16
3	3	4	2	1-5/8

Note #1: Joints from the N series designs may be substituted for the listed beam. When joists are substituted, the restrained rating of the joist must be equal to or greater that the restrained rating of the assembly. Additional joist substitution requirements are contained in the front of the Fire Resistance Directory.

##This thickness applies when optional Item 10 is used over 3-1/4 in. light weight concrete topping.

The thicknesses of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the thickness applied to the beams' lower flange edges is reduced to one-half that shown in the table.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	W8x28 Beam Supporting All Fluted Floor Units w/Lightweight Concrete	W12x16 Beam Supporting All Fluted Floor Unit
1	1	1	7/16+	5/8
1-1/2	1	1	7/16+	3/4
1-1/2	1-1/2	1-1/2	3/4	1-3/16
2	1	1	7/16+	3/4
2	2	2	1-3/16	1-5/8
3	1-1/2	1-1/2	3/4	1-3/16
3	3	3	1- 3/4	2- 3/8
3	3	4	2- 5/16	2- 1/16

+ Thickness applied to beams' lower flange edges shall be a minimum of 1/4 in.

ARABIAN VERMICULITE INDUSTRIES — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, MK-1000/HB, MK-1000/HB Extended Set, Z-106, Z-106/G.

GCP KOREA INC — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, Z-106/G, Z-106.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6/HY Extended Set, MK-6/HB, MK-6s, MK-6 GF, MK-6 GF Extended Set, MK-10 HB, MK-10 HB Extended Set, RG, Z-106/G, Z-106.

4C. **Spray-Applied Fire Resistive Materials —** Applied by mixing with water and spraying in one or more coats to a final thickness as shown in the tables below to steel beam surfaces which must be clean and free of dirt, loose scale and oil. The thicknesses shown in the table below are applicable to beams supporting all fluted floor or form units. Min avg and min ind density of 40/36 pcf respectively for Types AV-650, Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types AV800, Z-156, Z-156T and Z-156PC. For density determination refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	W8x28 Beam Supporting (see Note #1) All Fluted Floor Units w/Lightweight Concrete	W8x28 Beam Supporting (see Note #1) Fluted Floor Units and Normal Weight Concrete Only
1	1	1	5/16, 11/16##	5/16
1-1/2	1-1/2	1-1/2	11/16, 1##	5/8
2	1	1	5/16, 11/16##	5/16
2	2	2	1, 1-3/16##	7/8
3	1-1/2	1-1/2	11/16	5/8
3	3	3	1-5/16	1-7/16
3	3	4	1-5/8	2

Note #1: Joints from the N series designs may be substituted for the listed beam. When joists are substituted, the restrained rating of the joist must be equal to or greater that the restrained rating of the assembly. Additional joist substitution requirements are contained in the front of the Fire Resistance Directory.

##This thickness applies when optional Item 10 is used over 3-1/4 in. light weight concrete topping.

ARABIAN VERMICULITE INDUSTRIES — Type Z-106/HY.

GCP APPLIED TECHNOLOGIES INC — Type Z-106/HY.

GCP KOREA INC — Type Z-146 investigated for exterior use.

4C. **Sprayed Fiber* —** (Optional, Not Shown) Sprayed Fiber, Classified for Surface Burning Characteristics (BNST), having a maximum applied density of 3.5 pcf applied over both Steel Floor and Form Units (Item 3 and 3A) and over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports. Sprayed Fiber may be applied to the underside of Steel Floor and Form Units (Item 3 and 3A) at an unlimited thickness. Sprayed Fiber may be applied over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports according to the following table:

Allowable Sprayed Fiber Thickness over SFRM applied to Beams

Installed SFRM Thickness (in.) on Beam	SFRM Density (lb/ft³) 15	22	40	50
	Sprayed Fiber Thickness (in.)			
5/16	8	8	8	8
7/16	8	8	8	8
1/2	8	8	8	8
9/16	8	8	8	8
5/8	8	8	8	8
11/16	8	8	8	8
3/4	8	8	8	8
13/16	8	8	8	8
7/8	8	8	8	8
1	8	8	8	8
1-1/16	8	8	8	8
1-1/8	8	8	8	8
1-3/16	8	8	8	8
1-5/16	7- 3/4	8	8	8
1-3/8	7- 1/2	8	8	8
1-7/16	7- 1/4	8	8	8
1-9/16	6-11/16	8	8	8
1-5/8	6- 7/16	8	7- 7/8	8
1-3/4	5- 7/8	8	6- 7/16	8
1-13/16	5- 5/8	8	5-11/16	7- 1/8
2	4-13/16	7- 1/16	3-9/16	4- 7/16
2-1/16	4-9/16	6-11/16	2- 7/8	3-9/16
2-1/8	4- 5/16	6- 5/16	2- 1/8	2-11/16
2-3/16	4	5- 7/8	1- 7/16	1-13/16
2-5/16	3- 1/2	5- 1/8	0	0
2-3/8	3- 3/16	4-11/16	0	0
2-11/16	1-14/16	2-12/16	0	0
2-3/4	1-10/16	2-6/16	0	0
3-1/8	0	0	0	0

INTERNATIONAL CELLULOSE CORP — Type K13, LRE-K, or SonaSpray FC

4D. **Sprayed Fiber* —** (Optional, Not Shown) Sprayed Fiber, Classified for Surface Burning Characteristics (BNST), having a maximum applied density of 2.8 pcf applied over both Steel Floor and Form Units (Item 3 and 3A) and over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports. Sprayed Fiber may be applied to the underside of Steel Floor and Form Units (Item 3 and 3A) at an unlimited thickness. Sprayed Fiber may be applied over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports according to the following table:

Allowable Sprayed Fiber Thickness over SFRM applied to Beams

Installed SFRM Thickness (in.) on Beam	SFRM Density (lb/ft³) 15	22	40	50
	Sprayed Fiber Thickness (in.)			
5/16	5	5	5	5
7/16	5	5	5	5
1/2	5	5	5	5
9/16	5	5	5	5
5/8	5	5	5	5
11/16	5	5	5	5
3/4	5	5	5	5
13/16	5	5	5	5
7/8	5	5	5	5
1	5	5	5	5
1-1/16	5	5	5	5
1-1/8	5	5	5	5
1-3/16	5	5	5	5
1-5/16	5	5	5	5
1-3/8	5	5	5	5
1-7/16	5	5	5	5
1-9/16	5	5	5	5
1-5/8	5	5	5	5
1-3/4	5	5	5	5
1-13/16	5	5	5	5
2	5	5	4 7/16	5
2-1/16	5	5	3 9/16	4 7/16
2-1/8	5	5	2 11/16	3 3/8
2-3/16	5	5	1 13/16	2 1/4
2-5/16	4 3/8	5	0	0
2-3/8	4	5	0	0
2-11/16	2 3/8	3 7/16	0	0
2-3/4	2	2 15/16	0	0
3-1/8	0	0	0	0

MONOGLASS INC — Type Monoglass

4E. **Sprayed Fiber* —** (Optional, Not Shown) Sprayed Fiber, Classified for Noncombustible Building Materials (BICW), having a maximum applied density of 3.5 pcf applied over both Steel Floor and Form Units (Item 3 and 3A) and over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports. Sprayed Fiber may be applied to the underside of Steel Floor and Form Units (Item 3 and 3A) at an unlimited thickness. Sprayed Fiber may be applied over Spray-Applied Fire Resistive Material (Item 4 through 4B) on Supports according to the following table:

Allowable Sprayed Fiber Thickness over SFRM applied to Beams

Installed SFRM Thickness (in.) on Beam	SFRM Density (lb/ft³) 15	22	40	50
	Sprayed Fiber Thickness (in.)			
5/16	5	5	5	5
7/16	5	5	5	5
1/2	5	5	5	5
9/16	5	5	5	5
5/8	5	5	5	5
11/16	5	5	5	5
3/4	5	5	5	5
13/16	5	5	5	5
7/8	5	5	5	5
1	5	5	5	5
1-1/16	5	5	5	5
1-1/8	5	5	5	5
1-3/16	5	5	5	5
1-5/16	5	5	5	5
1-3/8	5	5	5	5
1-7/16	5	5	5	5
1-9/16	5	5	5	5
1-5/8	5	5	5	5
1-3/4	5	5	5	5
1-13/16	5	5	5	5
2	4-13/16	5	3-9/16	4-7/16
2-1/16	4-9/16	5	2-7/8	3-9/16
2-1/8	4-5/16	5	2-1/8	2-11/16
2-3/16	4	5	1-7/16	1-13/16
2-5/16	3-1/2	5	0	0
2-3/8	3-3/16	4-11/16	0	0
2-11/16	1-14/16	2-12/16	0	0
2-3/4	1-10/16	2-6/16	0	0
3-1/8	0	0	0	0

THERMACOUSTIC IND. — Type TC-417

5. **Shear-Connector-Studs-Optional —** Studs 3/4 in. diam by 3 in. long, for 1-1/2 in. deep form units to 5-1/4 in. long for 3 in. deep form units, headed type or equivalent per AISC specifications. Welded to the top flange of the beam through the steel form units.

6. **Electrical Inserts —** (Not shown) Classified as "Outlet Boxes and Fittings Classified for Fire Resistance".
H H ROBERTSON — Preset Inserts.

For use with 2-1/2 in. lightweight concrete topping over QL-WEX steel floor units. Installed over factory-punched holes in floor units per accompanying installation instructions. Spacing shall not be more than one insert in each 14 sq ft of floor area with spacing along floor units not less than 48 in. OC. The holes cut in insert cover for passage of wires shall be no more than 1/8 in. larger diam than wire. Restrained Assembly Rating is 3/4 hr with Tapmate-It-FS-1 and 1 hr with Tapmate-It-FS-2 inserts.

H H ROBERTSON — Tapmate II-FS-1, II-FS-2; Series KEB.

WIREMOLD CO — After set inserts. Single-service after set inserts installed per accompanying installation instructions in 2-1/2 in. diam hole core-drilled through min 2-1/4 in. thick concrete topping to top of cell of any min 3 in. deep cellular steel floor unit specified under Item 3. Spacing shall be no more than one insert in each 10 sq ft of floor area in each span with a min center to center spacing of 16 in. If the high potential and low potential raceways of the cellular steel floor unit are separated by a valley filled with concrete, the center to center spacing of the high potential and low potential single-service after set inserts may be reduced to a min of 7-1/2 in. Restrained Assembly Rating is 2 hr or less with internally protected Type 436 after set insert with Type MA-, MG- or MB- Series single-service activation fitting.

WIREMOLD CO — — Internally protected Type 436 after set ins

UL SYSTEM NO HW-D-0440

UL Product iQ®

XHBN.HW-D-0440 - Joint Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

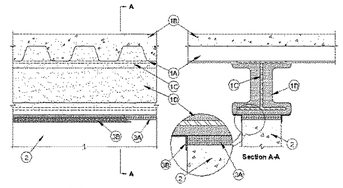
XHBN - Joint Systems

See General Information for Joint Systems

System No. HW-D-0440

December 03, 2020

Assembly Rating — 2 Hr
Nominal Joint Width — 2 In.
L Rating At Ambient — Less Than 1 CFM/Lin Ft
L Rating At 400°F — Less Than 1 CFM/Lin Ft
Class II Movement Capabilities — 12.5% Compression or Extension



1. **Floor Assembly —** The fire-rated fluted steel deck/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 Series Floor-Ceiling Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor And Floor Units* —** Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Structural Steel Support —** Steel beam, as specified in the individual D700 Series Floor-Ceiling Design, used to support steel floor units. Steel beam centered over and parallel with wall assembly. Structural steel support may be parallel or perpendicular to steel floor units.

D. **Spray-Applied Fire Resistive Material* —** Steel floor units and structural steel support to be sprayed with the thickness of material specified in the individual D700 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam when beam runs perpendicular to steel floor units. Additional material shall be applied to the web of the steel beam on each side of the wall. The thickness of material applied to each side of the steel beam web shall be 1-3/8 in. (35 mm).
GCP APPLIED TECHNOLOGIES INC — Type MK-6/HY, MK-10HB

D1. **Spray-Applied Fire Resistive Material* —** Steel floor units and structural steel support to be sprayed with the min thickness of material specified in the individual D700 Series Design. The flutes of the steel floor units are to be filled with material across the entire top flange of the steel beam when beam runs perpendicular to steel floor units. **Additional material shall be applied to the web of the steel beam on each side of the wall. The thickness of material applied to each side of the steel beam web shall be 1-1/2 in. (38 mm).**
ISOLATEK INTERNATIONAL — Type 300, Type 400

2. **Wall Assembly —** Min 8 in. (203 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m^3) concrete. Wall may also be constructed of any UL Classified **Concrete Block***. Concrete wall to be centered beneath and parallel with bottom flange of steel beam
See **Concrete Block** (CAZT) category in Fire Resistance Directory for names of manufacturers

3. **Joint System — Max separation between spray applied fire resistive material on bottom of structural support member and top of concrete wall (at time of installation of joint system) is 2 in. (51 mm). The joint system is designed**

to accommodate a max 12.5 percent compression or extension from it's installed width as measured between bottom plane of protected steel beam and top of concrete wall. The joint system shall consist of forming and fill materials as follows:

A. **Forming Material* —** Min 8 in. (203 mm) wide section of nom 4 pcf (64 kg/m^3) mineral wool batt insulation compressed 50 percent in thickness and installed cut edge first to completely fill the gap above the top of the concrete wall. The forming material shall be installed flush with both surfaces of wall
THERMAFIBER INC — Type SAF

B. **Fill, Void or Cavity Material*— Sealant —** Min 1/8 in. (3.2 mm) wet thickness (min 1/16 in. or 1.6 mm dry thickness) of fill material sprayed or troweled on each side of wall to completely cover mineral wool forming material and to overlap min 1/2 in. (13 mm) onto concrete wall and min 2 in. (51 mm) onto spray-applied fire resistive material
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP672 Firestop Spray or CFS-SP WB Firestop Joint Spray

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-12-03

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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UL SYSTEM NO HW-D-0218

UL Product iQ®

XHBN.HW-D-0218 - Joint Systems

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

XHBN - Joint Systems
XHBN7 - Joint Systems Certified for Canada

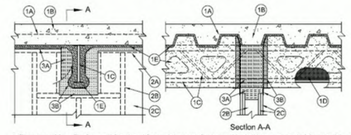
See General Information for Joint Systems

See General Information for Joint Systems Certified for Canada

System No. HW-D-0218

December 03, 2020

ANSI/UL2079	CAN/ULC S115
Assembly Ratings — 1 and 2 Hr (See Item 2)	F Ratings — 1 and 2 Hr (See Item 2)
Nominal Joint Width - 1-1/2 In.	FT Ratings — 1 and 2 Hr (See Item 2)
Class II Movement Capabilities — 25% Compression or Extension	FH Ratings — 1 and 2 Hr (See Item 2)
L Rating At Ambient — Less Than 1 CFM/lin ft	FTH Ratings — 1 and 2 Hr (See Item 2)
L Rating At 400 F — Less Than 1 CFM/lin ft	Nominal Joint Width - 1-1/2 In.
	Class II Movement Capabilities — 25% Compression or Extension
	L Rating At Ambient — Less Than 1 CFM/lin ft
	L Rating At 400 F — Less Than 1 CFM/lin ft



1. **Floor Assembly —** The fire-rated fluted steel floor unit/concrete floor assembly shall be constructed of the materials and in the manner described in the individual D700 or D900 Series Floor-Ceiling Design in the Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Form Units* —** Max 3 in. (76 mm) deep galv steel fluted floor units.

B. **Concrete —** Min 2-1/2 in. (64 mm) thick reinforced concrete, as measured from the top plane of the floor units.

C. **Structural Steel Support (Optional) - Steel beam or open-web steel joist, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support oriented perpendicular to wall assembly. —** Steel beam or open-web steel joist, as specified in the individual D700 or D900 Series Floor-Ceiling Design, used to support steel floor units. Structural steel support oriented perpendicular to wall assembly.

D. **Steel Lath —** Where open-web steel joists pass through the fire rated wall, 3/8 in. diamond mesh expanded steel lath having a nom weight of 1.7 to 3.4 lb per sq yd (0.9 to 1.8 kg/m^2) shall be secured to one side of each joist with steel tie wire and the lath shall be fully covered with no min thickness requirement.

E. **Spray-Applied Fire Resistive Material* —** After the installation of the ceiling runner, (Item 2A, 2A1 or 2A2) steel floor units to be sprayed with the thickness of material specified in the individual D700 Series Design or the structural steel supports to be sprayed in accordance with the specifications in the individual D900 Series Design. Material is to be excluded from the steel floor units, directly above the gypsum board and from the flanges of the ceiling runners.
ISOLATEK INTERNATIONAL — Type 300, Type 400

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY or MK-10HB

1A. **Roof Assembly —** (Not Shown) — As an alternate to the floor assembly, a fire rated fluted steel deck roof assembly may be used. The roof assembly shall be constructed of the materials and in the manner described in the individual P700 or P900 Series Roof-Ceiling Design in the UL Fire Resistance Directory. The hourly rating of the roof assembly shall be equal to or greater than the hourly rating of the wall assembly. The roof assembly shall include the following construction features as applicable:

A. **Steel Roof Deck —** Max 3 in. (76 mm) deep galv steel fluted roof deck.

B. **Roof Insulation —** Min 2-1/4 in. (57 mm) thick poured insulating concrete, as measured from the top plane of the steel roof deck.

C. **Structural Steel Support — (Optional) - Steel beam or open-web steel joist, as specified in the individual P700 or P900 Series Roof-Ceiling Design, used to support steel roof deck. Structural steel support oriented perpendicular to wall assembly.**

D. **Steel Lath —** Where open-web steel joists pass through the fire rated wall, 3/8 in. diamond mesh expanded steel lath having a nom weight of 1.7 to 3.4 lb per sq yd (0.9 to 1.8 kg/m^2) shall be secured to one side of each joist with steel tie wire and the lath shall be fully covered with no min thickness requirement.

E. **Spray-Applied Fire Resistive Material* —** After the installation of the ceiling runner, (Item 2A, 2A1 or 2A2) steel roof deck to be sprayed with the thickness of material specified in the individual P700 Series Design or the structural steel supports to be sprayed in accordance with the specifications in the individual P700 or P900 Series Design. Material is to be excluded from the steel roof deck, directly above the gypsum board and from the flanges of the ceiling runners.
ISOLATEK INTERNATIONAL — Type 300, Type 400

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY or MK-10HB

2. **Wall Assembly* —** The 1 or 2 h fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Steel Floor and Ceiling Runners —** Floor and ceiling runners of wall assembly shall consist of min No. 25 gauge galv steel channels sized to accommodate steel studs (Item 2B). Flange height of ceiling runner shall be min 1/4 in. (6 mm) greater than max extended joint width. Ceiling runner centered beneath and parallel with valley of steel floor units (Item 1A). Ceiling runner secured to steel floor units with masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC. A clearance of 1-1/2 in. (38 mm) shall be maintained between the ceiling runner and the spray-applied fire resistive material on the structural steel support members.

A1. **Light Gauge Framing*-Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A, slotted ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Slotted ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.
BRADY CONSTRUCTION INNOVATIONS INC, DBA SLIPTRACK SYSTEMS — SLP-TRK, SLPTRK325

CALIFORNIA EXPANDED METAL PRODUCTS CO — CST , CST325

CLARKDIETRICH BUILDING SYSTEMS — Types SLT, SLT-H

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Type SLT

RAM SALES L L C — RAM Slotted Track

SCAFCO STEEL STUD MANUFACTURING CO

TELLING INDUSTRIES L L C — True-Action Deflection Track

A2. **Light Gauge Framing*-Vertical Deflection Ceiling Runner —** As an alternate to the ceiling runners in Item 2A and 2A1, vertical deflection ceiling runner to consist of galv steel channel with slotted vertical deflection clips mechanically fastened within runner. Slotted clips, provided with step bushings, for permanent fastening of steel studs. Flanges sized to accommodate steel studs (Item 2B). Vertical deflection ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.

A3. **Light Gauge Framing*- Notched Ceiling Runner —** As an alternate to the ceiling runners in Items 2A through 2A2, notched ceiling runners to consist of C-shaped galv steel channel with notched return flanges sized to accommodate steel studs (Item 2B). Notched ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.
OLMAR SUPPLY INC — Type SCR

A4. **Light Gauge Framing* — Slotted Ceiling Runner —** As an alternate to the ceiling runner in Item 2A through 2A3, ceiling runner to consist of galv steel channel with slotted flanges sized to accommodate steel studs (Item 2B). Flange height of slotted ceiling runner shall be 3-1/4 in. (83 mm) with 2 in. (51 mm) deep slots. Slotted ceiling runner installed parallel to direction of fluted steel deck, centered beneath valley, prior to the application of spray-applied fire resistive material, and secured with steel masonry anchors, steel fasteners or welds spaced max 24 in. (610 mm) OC.
SCAFCO STEEL STUD MANUFACTURING CO — Slotted Track-Type SDLT

B. **Studs —** Steel studs to be min 3-5/8 in. (92 mm) wide. Studs cut 1/2 to 3/4 in. (13 to 19 mm) less in length than assembly height with bottom nesting in, resting on and fastened to the floor runner and with top nesting in ceiling runner without attachment. When slotted ceiling runner (Item 2A1) is used, steel studs secured to slotted ceiling runner with No. 8 by 1/2 in. (13 mm) long wafer head steel screws at midheight of slot on each side of wall. When vertical deflection runner (Item 2A2) is used, studs secured to vertical clip through slip bushing, supplied, with No.8 by 1/2 in. (13 mm) steel screws at midheight of slot of each slot. When slotted ceiling runner (Item 2A4) is used, steel studs cut in lengths 3/4 to 1-3/4 in. (19 to 44 mm) less than floor to ceiling height and secured to slotted ceiling runner with No. 8 by 1/2 (13 mm) long wafer head steel screws at +/- 3/16 in. (5 mm) of the mid-height of slot on each side of wall. A framed opening shall be constructed around each steel structural member A min clearance of 1 in. (25 mm) to a max of 4 in. (102 mm) shall be maintained between the framing and the spray-applied fire resistive material on the two sides of the structural support. The clearance between the framing and the spray-applied fire resistive material on the bottom of the structural steel support shall be max 2 in. (51 mm). Stud spacing not to exceed 24 in. (610 mm) OC.

C. **Gypsum Board* —** 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, number of layers an sheet orientation shall be as specified in the individual U400, V400 or W400 Series Design in the Fire Resistance Directory, except that a max 1-1/2 in. (38 mm) gap shall be maintained between top of gypsum board and bottom plane of steel floor units and between the top edge of the gypsum board and the spray applied fire resistive material on the structural steel support. The top row of screws shall be installed into the studs 1-1/2 to 2 in. (38 to 51 mm) below the bottom of the ceiling runner.
The hourly ratings of the joint system are dependent on the hourly rating of the wall.

3. **Joint System — Max separation between bottom of floor units and top of gypsum board at time of installation is 1-1/2 in. (38 mm). Max separation between spray-applied fire resistive material on bottom of structural support and framed opening in top of wall is 2 in. (51 mm). The joint system is designed to accommodate a max 25 percent compression or extension from its installed width.** The joint system consists of a forming material and a fill material between the top of the gypsum board and the bottom of the floor, as follows:

A. **Forming Material* —** Nominal 4 in. (102 mm) thick pieces of nominal 4 pcf (64 kg/m^3) forming material, sized to be flush with both surfaces of wall, placed to fully fill the framed opening around the structural steel support. Forming material to be installed with fibers vertical along the sides of the beam and pieces sized to attain a min compression rate of 25 percent in the thickness direction. Forming material to be installed with fibers horizontal at the bottom of the beam and pieces sized to attain a min compression rate of 50 percent in the thickness direction. Additional mineral wool batt insulation cut into strips to fill the gap between top of the gypsum board and bottom of floor units. Width of the strips shall be equal to the total thickness of the gypsum board. The strips of mineral wool shall be compressed 50 percent in thickness and firmly packed into the gap between the top of gypsum board and bottom of floor units.
INDUSTRIAL INSULATION GROUP L L C — MinWool-1200 Safing

JOHNS MANVILLE — Safing

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — SAFE

THERMAFIBER INC — Type SAF

B. **Fill, Void or Cavity Material* - Sealant —** A min 1/16 in. (1.6 mm) dry thickness (min 1/8 in. or 3.2 mm wet thickness) of fill material sprayed of troweled on each side of wall to completely cover mineral wool forming material and to overlap min 1/2 in. (13 mm) onto gypsum board and min 2 in. (51 mm) onto the steel floor units or the spray applied material on the steel floor unit and on the structural support member on both sides of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CFS-SP WB Firestop Joint Spray

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2020-12-03

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Draft

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www.lionakis.com

GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

REGISTERED ARCHITECT
JAMES A. DAVIS
C227266
EXP. DATE 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:	
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TITLE
UL LISTINGS - HW-D-0218, HW-D-0440

SHEET
GL508

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GENERAL NOTES

1. CONTRACTOR SHALL PERFORM PROJECT ACTIVITIES IN CONFORMANCE WITH MONO COUNTY ORDINANCES AND STANDARDS AND THE CONDITIONS OF APPROVAL OF APPLICABLE GRADING AND ENCROACHMENT PERMITS ISSUED BY THE MONO COUNTY DEPARTMENT OF PUBLIC WORKS. ALL WORK IN THE MONO COUNTY RIGHT-OF-WAY SHALL BE SUBJECT TO AN ENCROACHMENT PERMIT FROM THE MONO COUNTY DEPARTMENT OF PUBLIC WORKS.
2. ALL WORK SHALL CONFORM TO THESE DRAWINGS, SPECIFICATIONS, MONO COUNTY STANDARDS, THE "STANDARD SPECIFICATIONS" (CURRENT EDITION) ISSUED BY THE CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS). AND THE "CALIFORNIA BUILDING CODE" (CURRENT EDITION) IN THE EVENT OF A CONFLICT BETWEEN THE PRECEDING DOCUMENTS, THE MOST STRINGENT SHALL PREVAIL.
3. SITE DEMOLITION AND HAZARDOUS MATERIAL REMOVAL TO BE PERFORMED BY COUNTY UNDER A SEPARATE CONTRACT PRIOR TO CONSTRUCTION. EXISTING SITE CONDITIONS MAP TO BE PROVIDED UPON COMPLETION OF COUNTY CONTRACT.
4. CONTRACTOR SHALL CONDUCT ALL GRADING OPERATIONS IN CONFORMANCE WITH THE CONSTRUCTION SAFETY ORDERS OF THE STATE OF CALIFORNIA, DEPARTMENT OF INDUSTRIAL RELATIONS, DIVISION OF INDUSTRIAL SAFETY. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF GENERAL OSHA STANDARDS FOR THE PROTECTION OF WORKMEN AND THE GENERAL PUBLIC.
5. ANY EVIDENCE OF CULTURAL RESOURCES FOUND DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE MONO COUNTY COMMUNITY DEVELOPMENT DEPARTMENT AND ALL CONSTRUCTION ACTIVITIES SHALL CEASE UNTIL AUTHORIZED BY THAT DEPARTMENT.
6. CONTRACTOR SHALL CONTACT THE MONO COUNTY DEPARTMENT OF PUBLIC WORKS AT (760) 932-5440 TO ARRANGE A PRE-CONSTRUCTION MEETING AT THE PROJECT SITE AT LEAST SEVEN DAYS PRIOR TO COMMENCING SITE ACTIVITIES.
7. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7:00 AM TO 7:00 PM MONDAY THROUGH SATURDAY (NO OPERATIONS ALLOWED ON SUNDAYS). CONTRACTOR SHALL KEEP NOISE LEVELS OF CONSTRUCTION EQUIPMENT TO A MINIMUM, USING SOUND MUFFLING DEVICES IN ACCORDANCE WITH PREVAILING REQUIREMENTS. SITE PREPARATION AND CONSTRUCTION SHALL BE CONDUCTED SO AS TO MINIMIZE EXCESSIVE NOISE, DUST, DEBRIS AND DISTURBANCE TO NEIGHBORS WITHIN 500 FEET.
8. THE LIMITS OF CONSTRUCTION SPECIFIED ON THESE DRAWINGS SHALL BE CAREFULLY AND FULLY FLAGGED PRIOR TO START OF CONSTRUCTION IN A MANNER TO PREVENT DAMAGE TO VEGETATION AND DISTURBANCE TO SOILS OUTSIDE OF THE CONSTRUCTION AREA. SITE-DISTURBING ACTIVITIES SHALL BE RESTRICTED TO THE IDENTIFIED BOUNDARIES OF THE PROJECT.
9. RESTRICTIONS ON THE MOVEMENTS OF HEAVY EQUIPMENT SHALL BE ACCOMPLISHED THROUGH THE ESTABLISHMENT OF DESIGNATED TRAVEL ROUTES AND BARRIERS WHICH PREVENT CUTTING, SCARRING AND ROOT DAMAGE TO TREES AND SHRUBS NOT BEING REMOVED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR, AND WILL BEAR THE COST OF, RESETTING ANY SURVEY STAKES OR MONUMENTS DESTROYED BY HIS OPERATIONS.
11. ANY SIDEWALK, CURB, GUTTER OR ANY OTHER CONCRETE STRUCTURES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
12. UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. WHERE EXCAVATION IS NECESSARY, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AND ALL AFFECTED UTILITY COMPANIES TO LOCATE ALL BURIED UTILITIES AT LEAST 48 HOURS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR RELOCATION OF UTILITIES AS REQUIRED BY THE WORK. EXISTING UTILITY TYPE, LOCATION, MATERIAL AND SIZE ARE BASED ON A SEARCH OF EXISTING RECORDS. WHENEVER CONNECTIONS TO OR CLEARANCE FROM AN EXISTING UTILITY IS REQUIRED, THE CONTRACTOR SHALL POTHOLE TO VERIFY THE LOCATION, SIZE AND MATERIAL OF THE UTILITY PRIOR TO CONSTRUCTION. IN ADDITION TO CALLING USA, THE CONTRACTOR SHOULD CONTACT THE FOLLOWING UTILITIES KNOWN TO BE IN THE BRIDGEPORT AREA:

    SOUTHERN CALIFORNIA EDISON: 760-920-5025
    BRIDGEPORT PUD: 760-932-7251
    MONO COUNTY DEPARTMENT OF PUBLIC WORKS (FACILITIES): 760-932-5440
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING ROADS, BUILDINGS OR OTHER STRUCTURES RESULTING FROM HIS CONSTRUCTION ACTIVITIES. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE OWNER.
14. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN THE INFORMATION SHOWN ON THESE DRAWINGS AND THE CONDITIONS EXISTING IN THE FIELD. THE CONTRACTOR SHALL COMPARE ALL DRAWINGS AND VERIFY THE FIGURES BEFORE LAYING OUT THE WORK AND WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MIGHT HAVE BEEN AVOIDED THEREBY. IF THE CONTRACTOR FAILS TO NOTIFY THE ENGINEER IN A TIMELY MANNER OF ANY APPARENT ERROR OR OMISSION ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING WORK INCORRECTLY DONE AT THE CONTRACTOR'S OWN EXPENSE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL MANHOLE RIMS AND ANY EXISTING UTILITY COVERS WITHIN THE CONSTRUCTION LIMITS ARE SET TO THE FINISH GRADE ACCORDING TO THE DETAILS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CONSTRUCTION WATER FOR HIS NEEDS, AS WELL AS STAGING AREA LOCATIONS.
17. DURING THE ENTIRE DURATION OF THIS CONSTRUCTION CONTRACT, THE CONTRACTOR SHALL IMPLEMENT STRINGENT DUST CONTROL MEASURES IN ACCORDANCE WITH THE STATE OF CALIFORNIA RULES AND REGULATIONS. THE CONTRACTOR IS REQUIRED TO SUPPRESS DUST AT ALL TIMES, 24 HOURS A DAY, REGARDLESS OF WHEN CONSTRUCTION ACTIVITIES ARE OCCURRING.

TRAFFIC NOTES

1. REFERENCE SECTION "MAINTAINING TRAFFIC/TRAFFIC CONTROL" OF THE TECHNICAL SPECIFICATIONS.
2. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DETAILED TRAFFIC CONTROL PLAN, PREPARED BY PROFESSIONAL TRAFFIC OPERATIONS ENGINEER (PTOE) OR A TRAFFIC CONTROL SUPERVISOR (TCS) CERTIFIED BY THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA), CONFORMING TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
3. THE CONTRACTOR SHALL MAINTAIN ONE PAVED TEN (10) FOOT LANE IN EACH DIRECTION OF TRAVEL EXCEPT FOR SINGLE TRAFFIC CONTROL WITH FLAGGERS AS APPROVED BY THE ENGINEER. TRAFFIC MAY NOT BE ROUTED OVER UNPAVED ROADWAYS UNLESS AUTHORIZED BY THE ENGINEER. AT INTERSECTIONS, MAINTAIN ONE THRU LANE IN EACH DIRECTION AT ALL TIMES. ONLY ONE SIDE OF AN INTERSECTION MAY BE CLOSED AT ANY ONE TIME.
4. THE CONTRACTOR SHALL MAINTAIN A SAFE WORKPLACE AT ALL TIMES, INCLUDING, BUT NOT LIMITED TO, PROVIDING FLAGGERS, SAFETY EQUIPMENT, BARRICADES, SAFE PEDESTRIAN PASSAGE ALONG SIDEWALKS, AND MAINTENANCE OF HANDICAP ACCESS THROUGHOUT THE PROJECT SITE WHERE APPLICABLE.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY HOT/COLD MIX (OR AC GRINDINGS WHERE APPROVED BY THE ENGINEER) RAMPS AT DRIVEWAYS, ALLEYS, INTERSECTIONS AND AT THE BEGINNING AND ENDING OF GRADE DROP-OFFS WITHIN THE TRAVEL LANE. RAMPS SHALL BE SUFFICIENTLY SLOPED TO ELIMINATE HAZARDOUS DRIVING CONDITIONS AND SHALL BE NO STEEPER THAN 5%. (NO DIRECT PAYMENT)
6. THE CONTRACTOR SHALL CONSTRUCT SAFETY SLOPES WHERE PUBLIC TRAFFIC IS EXPOSED TO DROP-OFFS GREATER THAN 4 INCHES DURING NON-WORKING HOURS. DELINEATORS SHALL BE PLACED AT ALL DROP-OFF LOCATIONS AND BARRIER RAILS SHALL BE PLACED WHERE DROP-OFFS EXCEED 18 INCHES. (NO DIRECT PAYMENT)
7. THE CONTRACTOR SHALL MAINTAIN A SAFE WORKPLACE AT ALL TIMES, INCLUDING, BUT NOT LIMITED TO, PROVIDING FLAGGERS, SAFETY EQUIPMENT, BARRICADES, SAFE PEDESTRIAN PASSAGE ALONG SIDEWALKS, AND MAINTENANCE OF HANDICAP ACCESS THROUGHOUT THE PROJECT SITE WHERE APPLICABLE.

GRADING NOTES

1. CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL DUST IN CONSTRUCTION AREAS AND ON SITE ACCESS ROADS. WATER SHALL BE APPLIED TO DISTURBED SURFACES AT A SUFFICIENT FREQUENCY AND QUANTITY FOR DUST CONTROL PURPOSES. ALL EXPOSED SOIL SURFACES SHALL BE MOISTENED AS REQUIRED TO AVOID NUISANCE CONDITIONS AND INCONVENIENCES FOR LOCAL RESIDENTS, BUSINESSES, AND TRAVELERS OF NEARBY ROADWAYS.
2. FINISHED GRADES IN ALL AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS. NO AREAS SHALL BE LEFT SUCH THAT A PONDING CONDITION OCCURS, UNLESS OTHERWISE SPECIFIED.

EROSION CONTROL NOTES

1. CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND/OR REPORT OF THE WASTE DISCHARGE, AS APPLICABLE. STOCKPILED MATERIALS AND EQUIPMENT STORAGE AREAS SHALL BE LOCATED AS SPECIFIED IN THE APPROVED REPORT. TEMPORARY EROSION CONTROL FACILITIES SHALL BE IN PLACE PRIOR TO COMMENCING ANY GRADING OPERATIONS. UPON COMPLETION OF CONSTRUCTION, PERMANENT EROSION CONTROL FACILITIES SHALL BE PLACED AS DESIGNED IN THE APPROVED REPORT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN A COPY OF THE SWPPP ON SITE.
2. DURING CONSTRUCTION, TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT FENCES, FIBER ROLLS, EROSION CONTROL BLANKETS, OR OTHER METHODS SHALL BE INSTALLED AS NECESSARY TO PREVENT DISCHARGE OF SOIL FROM THE SITE DURING PERIODS OF PRECIPITATION OR RUNOFF. SIMILAR MEASURES SHALL BE INSTALLED ON OR AROUND ANY SOIL STOCKPILE LOCATED ADJACENT TO PUBLIC ROADWAYS, RESIDENCES, OR BUSINESSES, IN THE VICINITY OF BODIES OF WATER, OR WHEN REMAINING ON-SITE FOR AN EXTENDED PERIOD.
3. CONTRACTOR SHALL TAKE ALL SUCH MEASURES NECESSARY TO RETAIN SOIL AND SEDIMENT ON-SITE AND TO PREVENT TRACKING OF MUD AND DIRT ONTO PUBLIC ROADWAYS.
4. AT NO TIME SHALL THE CONTRACTOR DEWATER THE PROJECT SITE BY PUMPING INTO BODIES OF WATER, STORM DRAINS, OR A SUBDRAIN SYSTEM.

LEGEND

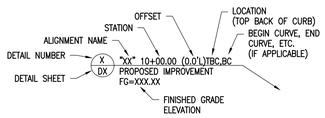
PROPOSED FEATURES

- 5040 — MAJOR CONTOUR
- 5041 — MINOR CONTOUR
- BUILDING GRID
- EDGE OF PAVEMENT
- CURB AND GUTTER
- SAWCUT
- 8" W — WATER LINE
- GATE VALVE
- FIRE HYDRANT
- 12" SD — STORM DRAIN PIPE
- STORM DRAIN MANHOLE
- OR — STORM DRAIN INLET
- 6" SS — SANITARY SEWER PIPE
- SANITARY SEWER MANHOLE
- SSCO — SANITARY SEWER CLEANOUT
- JT — JOINT TRENCH
- GAS — GAS LINE
- E — UNDERGROUND ELECTRIC
- U — CABLE
- T — TELEPHONE
- FILTER FABRIC FENCE / SILT FENCE
- X — CONSTRUCTION FENCING
- INFILTRATION TRENCH
- SILT ROLL / FIBER ROLL
- PORTLAND CEMENT CONCRETE (SEE DETAIL 4/C502)
- AC PAVEMENT (SEE DETAIL 5/C502)
- BUILDING
- CLASS 2 AGGREGATE BASE
- REVEGETATION
- 0.20% — SLOPE INDICATORS

EXISTING FEATURES

- 5040 — MAJOR CONTOUR
- MINOR CONTOUR
- EDGE OF PAVEMENT
- EX WL — WATER LINE
- EX SS — SANITARY SEWER PIPE
- EX SD — STORM DRAIN PIPE
- EX ELEC — UNDERGROUND ELECTRIC
- EX GAS — GAS LINE
- EX OH ELEC — OVERHEAD UTILITY
- EX TELE — UNDERGROUND TELEPHONE
- DRAINAGE CHANNEL FLOWLINE
- RIGHT-OF-WAY
- PROPERTY LINE
- SURVEY MONUMENT
- 510 — SURVEY CONTROL POINT
- SSCO — SANITARY SEWER CLEANOUT
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- FIBER OPTIC MANHOLE
- +5040.60 — POINT ELEVATION W/DESCRIPTOR
- FIRE HYDRANT
- GATE VALVE
- SIGN
- POWER POLE
- STREET LIGHT
- AC PAVEMENT

TYPICAL IMPROVEMENT NOTE



ABBREVIATIONS

NOT ALL ABBREVIATIONS LISTED ARE USED IN THESE DRAWINGS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
A/G	ABOVE GROUND
@	AT
APPROX	APPROXIMATE
ASS'Y	ASSEMBLY
AVG	AVERAGE
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BEGIN CURVE
BMP	BEST MANAGEMENT PRACTICES
BOW	BACK OF WALK
BSP	BLACK STEEL PIPE
BW	BOTTOM OF WALL
BVC	BEGIN VERTICAL CURVE
C&G	CURB AND GUTTER
CB	CATCH BASIN
CF	CUBIC FEET
CL	CENTERLINE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
COMM	COMMUNICATION
CONC	CONCRETE
CONST	CONSTRUCT
CP	CONTROL POINT
CY	CUBIC YARD
° OR DEG	DEGREE(S)
DI	DROP INLET
ø OR DIA	DIAMETER
DI	DUCTILE IRON
DWG	DRAWING
DW OR DWY	DRIVEWAY
E	EAST
EA	EACH
EASE	EASEMENT
EC	END OF CURVE
EG	EXISTING GRADE
ELEC	ELECTRIC
EP	EDGE OF PAVEMENT
EL	ELEVATION
EVC	END OF VERTICAL CURVE
EX	EXISTING
FCA	FLANGE COUPLING ADAPTER
FH	FIRE HYDRANT
FG	FINISH GRADE
FFC	FRONT FACE CURB
FES	FLARED END SECTION
FL	FLOWLINE
FLG	FLANGED
FT OR '	FOOT, FEET
FV	FLUSH VALVE
G	GAS
GV	GATE VALVE
GB	GRADE BREAK
GSP	GALVANIZED STEEL PIPE
HP	HIGH POINT
HOR	HORIZONTAL
HDPE	HIGH DENSITY POLYETHYLENE
HMAC	HOT MIXED ASPHALT CONCRETE
IE	INVERT ELEVATION
ID	INSIDE DIAMETER
IN OR "	INCH
INT	INTERSECTION
IRR	IRRIGATION
LT,L	LEFT
LEN	LENGTH
LF	LINEAR FEET
LP	LOW POINT
LS	LUMP SUM
MFGR	MANUFACTURER
MH	MANHOLE
MAX	MAXIMUM
MDD	MAXIMUM DRY DENSITY
MJ	MECHANICAL JOINT
MI	MILE
MIN	MINIMUM
MISC	MISCELLANEOUS
MVC	MIDDLE OF VERTICAL CURVE
N	NORTH
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
# OR NO	NUMBER
OC	ON CENTER
OG	ORIGINAL GRADE
OWS	OIL/WATER SEPARATOR
±	PLUS OR MINUS
PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVE
PE	PERMANENT EASEMENT
PL	PROPERTY LINE
POS	POSITIVE
PRC	POINT OF REVERSE CURVE
PSI	POUNDS PER SQUARE INCH
PT	POINT
PTC	PERMISSION TO CONSTRUCT
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
REVEG	REVEGETATION
RT,R	RIGHT
R/W, ROW	RIGHT-OF-WAY
S	SLOPE, SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SDR	STANDARD DIMENSION RATIO
SDMH	STORM DRAIN MANHOLE
SF	SQUARE FOOT/FEET
SHT	SHEET
SSMH	SANITARY SEWER MANHOLE
SSCO	SANITARY SEWER CLEAN OUT
SS	SANITARY SEWER, STAINLESS STEEL
STA	STATION
STD	STANDARD
SY	SQUARE YARD
TBC	TOP BACK OF CURB
TC	TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TW	TOP OF WALL
TYP	TYPICAL
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
U/G	UNDERGROUND
VC	VERTICAL CURVE
VG	VALLEY GUTTER
W	WATER
WL	WATER LINE
W	WEST
W/	WITH
WM	WATER METER

Draft

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REGISTERED PROFESSIONAL ENGINEER
FRANK C. HALOTTA
NO. C 047225
EXP. 06/30/25
CIVIL
STATE OF CALIFORNIA
08/25/23

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
CIVIL NOTES, LEGEND, AND ABBREVIATION

SHEET
C-001

V1

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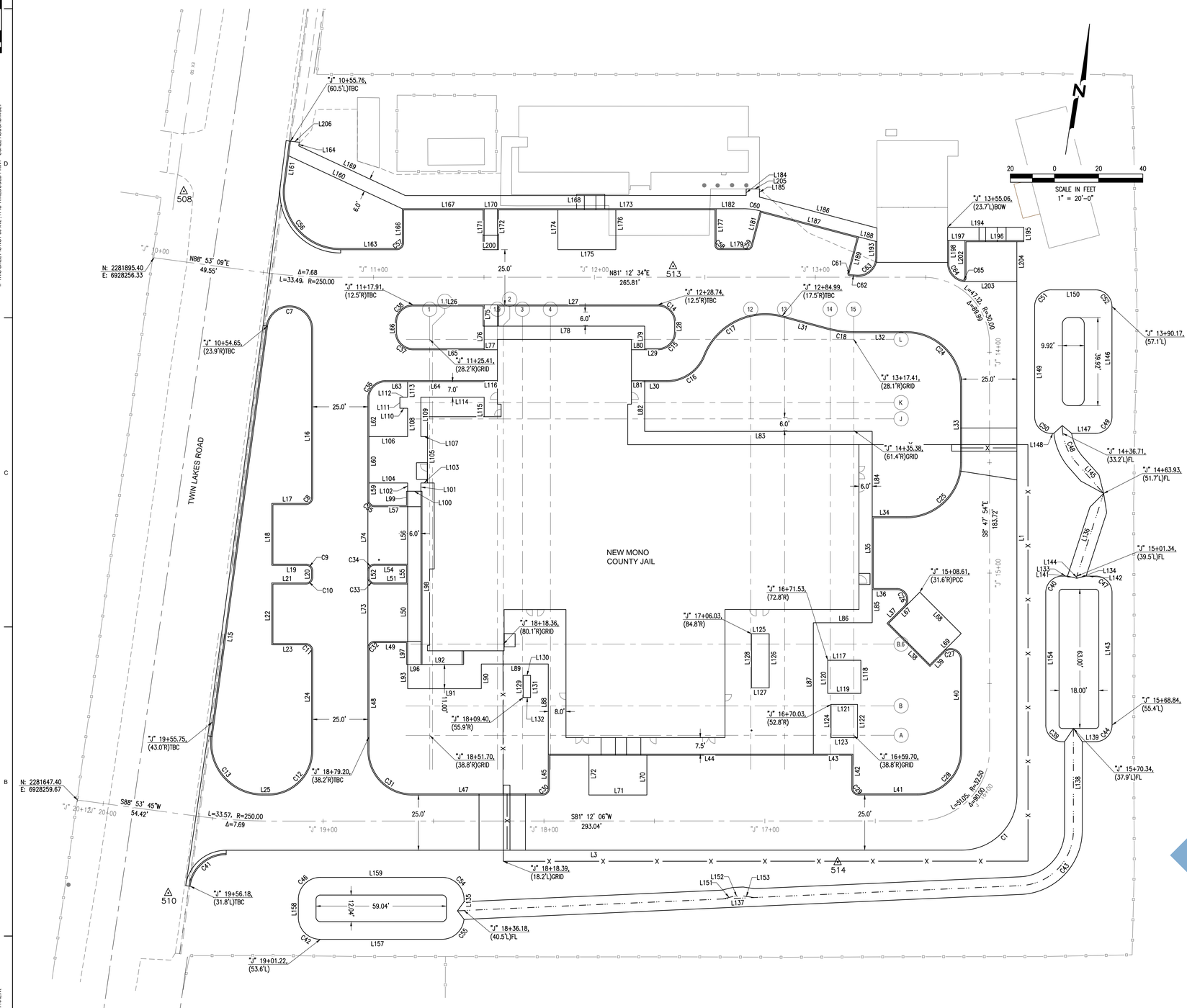

LINE TABLE		
LINE #	LENGTH	DIRECTION
L1	232.56	S08° 47' 54"E
L3	333.00	S81° 12' 06"W
L15	187.49	S01° 06' 51"E
L16	76.46	N08° 47' 54"W
L17	15.50	N81° 12' 06"E
L18	28.00	N08° 47' 54"W
L19	15.50	S81° 12' 06"W
L20	3.00	N08° 47' 54"W
L21	15.50	N81° 12' 06"E
L22	28.00	N08° 47' 54"W
L23	15.50	S81° 12' 06"W
L24	45.58	N08° 47' 54"W
L25	2.69	N81° 12' 06"E
L26	31.67	N81° 12' 06"E
L27	72.17	N81° 12' 06"E
L28	4.33	S08° 47' 54"E
L29	6.00	S81° 12' 06"W
L30	15.95	S81° 12' 06"W
L31	20.95	N83° 47' 54"W
L32	22.95	S81° 12' 06"W

LINE TABLE		
LINE #	LENGTH	DIRECTION
L33	34.31	N08° 47' 54"W
L34	15.50	N81° 12' 06"E
L35	32.99	S08° 47' 54"E
L36	11.11	S81° 12' 06"W
L37	10.78	N36° 12' 06"E
L38	27.50	N53° 47' 54"W
L39	8.77	S36° 12' 06"W
L40	41.26	N08° 47' 54"W
L41	26.79	N81° 12' 06"E
L42	15.50	S08° 47' 54"E
L43	17.87	S81° 12' 06"W
L44	120.00	S81° 12' 06"W
L45	15.50	N08° 47' 54"W
L47	59.17	N81° 12' 06"E
L48	46.58	S08° 47' 54"E
L49	14.50	S81° 12' 06"W
L50	26.00	N08° 47' 54"W
L51	14.50	N81° 12' 06"E
L52	3.00	S08° 47' 54"E
L54	14.50	S81° 12' 06"W

LINE TABLE		
LINE #	LENGTH	DIRECTION
L55	8.00	N08° 47' 54"W
L56	26.00	N08° 47' 54"W
L57	14.50	S81° 12' 06"W
L59	7.75	N08° 47' 54"W
L60	21.00	N08° 47' 54"W
L62	17.33	N08° 47' 54"W
L63	10.00	N81° 12' 07"E
L64	34.67	N81° 11' 39"E
L65	32.17	S81° 12' 06"W
L66	4.33	N08° 47' 54"W
L67	20.00	N36° 12' 06"E
L68	26.50	S53° 47' 54"E
L69	20.00	N36° 12' 06"E
L70	18.00	N08° 47' 54"W
L71	26.25	N81° 12' 06"E
L72	18.00	S08° 47' 54"E
L73	32.00	N08° 47' 54"W
L74	32.00	N08° 47' 54"W
L75	9.16	S08° 47' 54"E
L76	10.67	N08° 47' 54"W

LINE TABLE		
LINE #	LENGTH	DIRECTION
L77	6.00	N81° 12' 06"E
L78	66.17	S81° 12' 06"W
L79	10.67	N08° 47' 54"W
L80	6.00	S81° 12' 06"W
L81	6.00	N81° 12' 06"E
L82	22.99	N08° 47' 54"W
L83	103.00	S81° 12' 06"W
L84	38.67	S08° 47' 54"E
L85	15.00	S08° 47' 54"E
L86	26.67	N81° 12' 06"E
L87	59.50	N08° 47' 54"W
L88	40.83	N08° 47' 54"W
L89	30.33	S81° 12' 06"W
L90	11.17	S08° 47' 54"E
L91	33.33	S81° 12' 06"W
L92	19.33	N81° 12' 06"E
L93	11.00	N08° 47' 54"W
L96	6.00	S81° 12' 06"W
L97	9.92	N08° 47' 54"W
L98	78.42	S08° 47' 54"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L99	6.50	S08° 47' 54"E
L100	6.00	N81° 12' 06"E
L101	3.75	S08° 47' 54"E
L102	3.75	S08° 47' 54"E
L103	3.00	S81° 12' 06"W
L104	17.50	N81° 12' 06"E
L105	21.00	S08° 47' 54"E
L106	17.50	S81° 12' 06"W
L107	3.00	N81° 12' 06"E
L108	12.83	S08° 47' 54"E
L109	17.83	S08° 47' 54"E
L110	3.50	N81° 12' 06"E
L111	5.00	S08° 47' 54"E
L112	3.50	S81° 12' 06"W
L113	6.99	S08° 47' 54"E
L114	28.67	S81° 12' 06"W
L115	8.83	N08° 47' 54"W
L116	6.00	N81° 09' 07"E
L117	15.00	N81° 12' 06"E
L118	15.00	S08° 47' 54"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L119	15.00	S81° 12' 06"W
L120	15.00	N08° 47' 54"W
L121	12.00	N81° 12' 06"E
L122	15.00	S08° 47' 54"E
L123	12.00	S81° 12' 06"W
L124	15.00	N08° 47' 54"W
L125	8.00	N81° 12' 06"E
L126	24.50	S08° 47' 54"E
L127	8.00	S81° 12' 06"W
L128	24.50	N08° 47' 54"W
L129	10.00	N08° 47' 54"W
L130	3.33	N81° 12' 06"E
L131	10.00	S08° 47' 54"E
L132	3.33	S81° 12' 06"W
L133	2.35	S81° 12' 06"W
L134	4.32	S67° 49' 37"W
L135	1.02	S08° 47' 54"E
L136	39.33	N09° 12' 00"E
L137	255.24	S78° 39' 03"W
L138	46.20	S08° 47' 54"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L139	6.00	N81° 12' 06"E
L141	4.32	N85° 25' 14"W
L142	4.24	S81° 12' 06"W
L143	60.00	N08° 47' 54"W
L144	1.00	N08° 47' 54"W
L145	18.75	S50° 19' 37"E
L146	50.00	N08° 47' 54"W
L147	10.73	N81° 14' 48"E
L148	1.20	N81° 14' 48"E
L149	50.00	S08° 47' 54"E
L150	20.00	S81° 14' 48"W
L151	5.10	S67° 20' 27"W
L152	4.00	S78° 39' 03"W
L153	5.10	S89° 57' 38"W
L154	60.00	S08° 47' 54"E
L157	55.04	S81° 12' 06"W
L158	8.04	N08° 47' 54"W
L159	55.04	N81° 12' 06"E
L160	56.85	S73° 47' 54"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L161	20.04	S01° 25' 03"E
L163	25.45	N81° 12' 06"E
L164	1.67	N00° 53' 03"W
L166	15.50	N08° 47' 54"W
L167	37.00	N81° 12' 06"E
L168	152.97	S81° 12' 06"W
L169	53.23	N73° 47' 54"W
L170	6.00	N81° 12' 06"E
L171	18.50	N08° 47' 54"W
L172	18.50	S08° 47' 54"E
L173	99.00	N81° 12' 06"E
L174	18.00	N08° 47' 54"W
L175	26.25	S81° 12' 06"W
L176	18.00	S08° 47' 54"E
L177	16.50	S08° 47' 54"E
L179	12.91	N81° 12' 06"E
L181	16.41	N05° 59' 24"E
L182	12.30	N81° 12' 06"E
L184	2.99	S08° 47' 54"E

LINE TABLE		
LINE #	LENGTH	DIRECTION
L185	3.72	N08° 47' 54"W
L186	53.09	N84° 00' 36"W
L187	46.00	S84° 00' 36"E
L188	8.07	S84° 00' 36"E
L189	17.02	S05° 59' 24"W
L193	7.32	N08° 47' 54"W
L194	34.46	N81° 12' 06"E
L195	6.00	S08° 47' 54"E
L196	26.63	N81° 12' 06"E
L197	7.34	N81° 12' 06"E
L198	10.20	S08° 47' 54"E
L200	6.00	N81° 12' 06"E
L202	17.00	N08° 47' 54"W
L203	24.50	S81° 12' 06"W
L204	18.00	S08° 47' 54"E
L205	6.00	S81° 12' 09"W
L206	4.01	S88° 16' 13"W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C7	30.07	10.00	172.32
C8	3.93	2.50	090.00
C9	3.93	2.50	090.00
C10	3.93	2.50	090.00
C11	3.93	2.50	090.00
C12	30.63	19.50	090.00
C13	39.21	23.00	097.68
C14	11.78	7.50	090.00
C15	11.78	7.50	090.00
C16	22.07	18.50	068.35
C17	42.91	29.50	083.35
C18	13.22	50.50	015.00
C24	38.48	24.50	090.00
C25	38.48	24.50	090.00
C26	10.60	4.50	135.00
C27	10.60	4.50	135.00
C28	30.63	19.50	090.00
C29	3.93	2.50	090.00

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C30	3.93	2.50	090.00
C31	30.63	19.50	090.00
C32	3.93	2.50	090.00
C33	3.93	2.50	090.00
C34	3.93	2.50	090.00
C35	3.93	2.50	090.00
C36	11.78	7.50	089.99
C37	11.78	7.50	090.00
C38	11.78	7.50	090.00
C39	11.78	7.50	090.00
C40	11.78	7.50	090.00
C41	23.72	16.50	082.37
C42	15.71	10.00	090.00
C43	38.16	25.00	087.45
C44	11.78	7.50	090.00
C46	15.71	10.00	090.00
C47	11.78	7.50	090.00
C48	18.27	25.00	041.86

CURVE TABLE			
CURVE #	LENGTH	RADIUS	DELTA
C49	11.79	7.50	090.05
C50	11.78	7.50	089.95
C51	11.79	7.50	090.05
C52	11.78	7.50	089.95
C54	15.71	10.00	090.00
C55	14.78	10.00	084.67
C56	43.34	25.50	097.38
C57	3.93	2.50	090.00
C58	2.36	1.50	090.00
C59	1.97	1.50	075.21
C60	7.83	30.00	014.96
C61	0.85	0.50	097.94
C62	3.32	49.50	003.84
C63	12.99	8.00	093.01
C64	10.65	8.00	076.28
C65	1.81	1.00	103.72

BASIS OF BEARINGS AND ELEVATION

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (2011), ZONE 3. DISTANCES SHOWN HEREON ARE GROUND DISTANCES USING THE COMBINED SCALE FACTOR OF 1.00033710360.

THE BASIS OF ELEVATIONS FOR THIS SURVEY IS BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND CALIBRATED USING C&GS TRIANGULATION STATION DISK STAMPED "BRIDGEPORT 1956" FOUND AT THE BRIDGEPORT AIRPORT, PID JR0751 AND HAVING AN ELEVATION OF 6469.23'.

SURVEY CONTROL				
CONTROL POINT	*NORTH*	*EAST*	*ELEVATION*	*DESCRIPTION*
508	2281927.17	6928265.17	6476.68	5/8" R-CAP LUMOS CONTROL
510	2281612.07	6928306.77	6477.53	MAG & SHINER IN ASPHALT
513	2281927.49	6928489.27	6478.71	MAG & SHINER IN ASPHALT
514	2281672.13	6928604.16	6478.59	5/8" R-CAP LUMOS CONTROL

811 Know what's below. Call before you dig.

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SEAL

REGISTERED PROFESSIONAL ENGINEER FRANK C. HALTOM NO. C 047225 EXP. 06/30/25 CIVIL STATE OF CALIFORNIA

08/25/23

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BRIDGEPORT, CA 95317

CLIENT

MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

HORIZONTAL CONTROL PLAN

SHEET

C-101

V1

Draft

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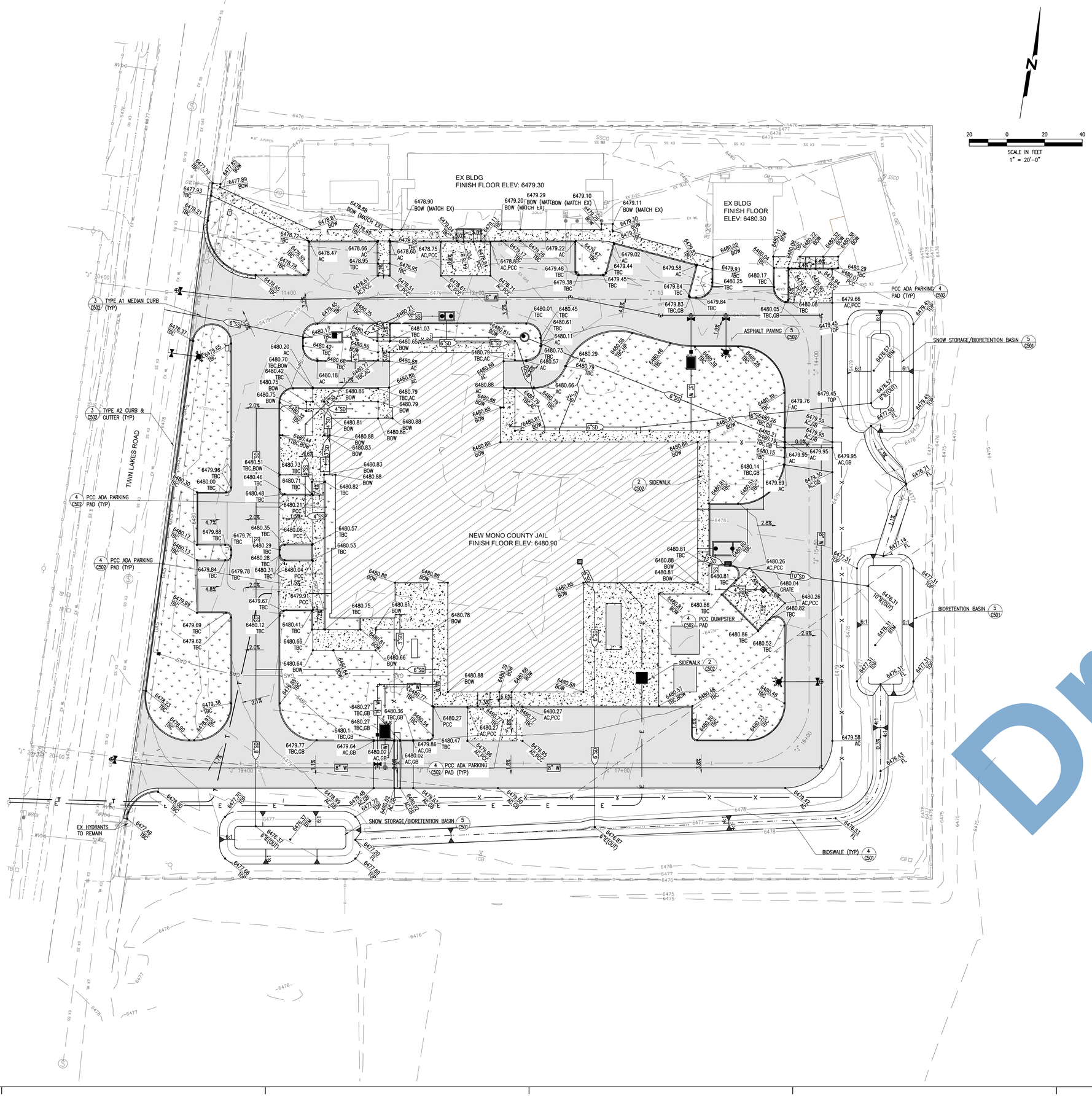
NOTE:
1. FOR FIRE AND DOMESTIC WATER SUPPLY, STORM DRAIN, AND SANITARY SEWER DESIGN INFORMATION SEE SHEET C-103.
2. SEE ARCHITECT DRAWINGS FOR GRADING OF OUTDOOR REC YARD AND VEHICLE SALLY.



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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

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SEAL

REGISTERED PROFESSIONAL ENGINEER
FRANZ G. HALTOM
NO. C 64725
EXP. 06/30/25
CIVIL
STATE OF CALIFORNIA
08/25/23

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
GRADING AND DRAINAGE PLAN

SHEET
C-102

V1

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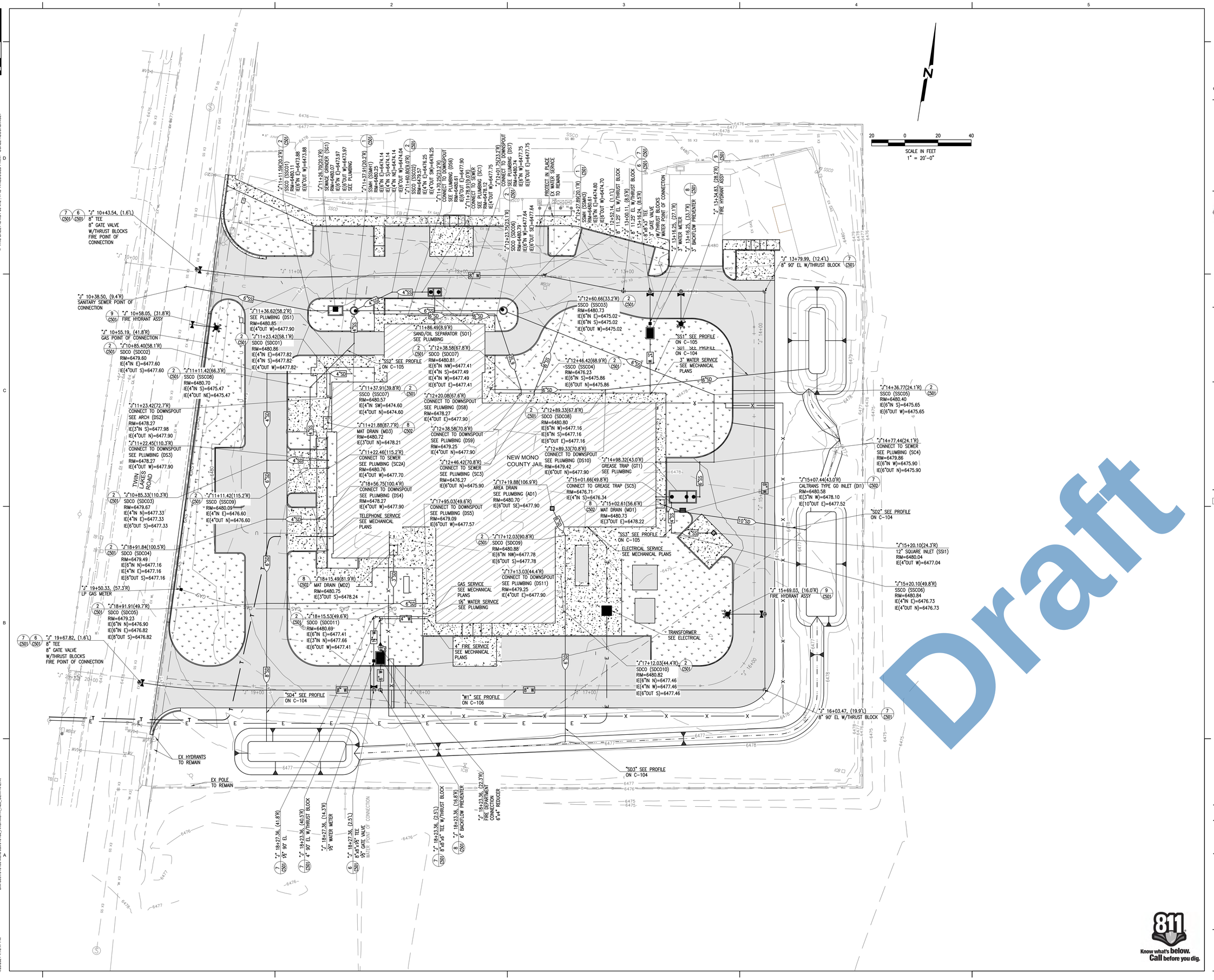

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GOVMOTUS No:22-N-3854-CP-DR

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UTILITY PLAN

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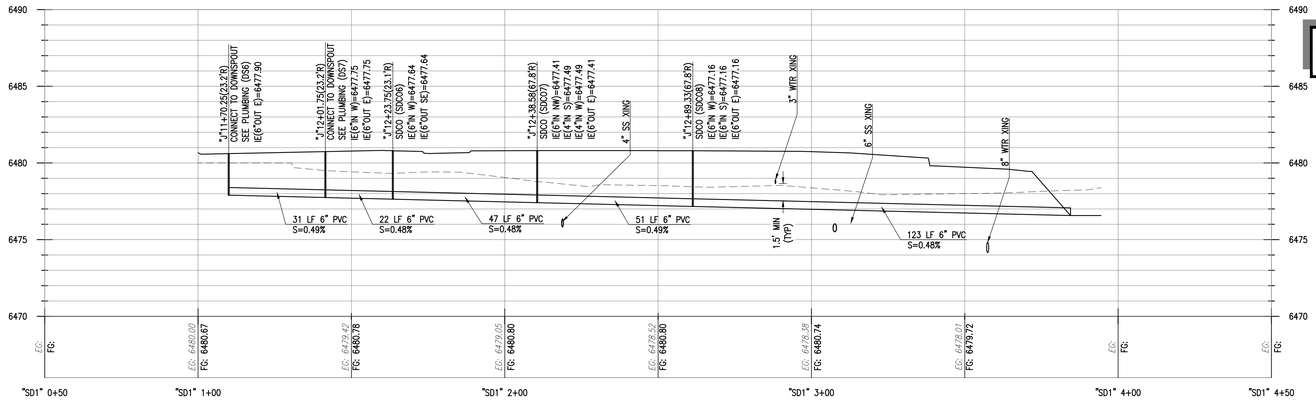

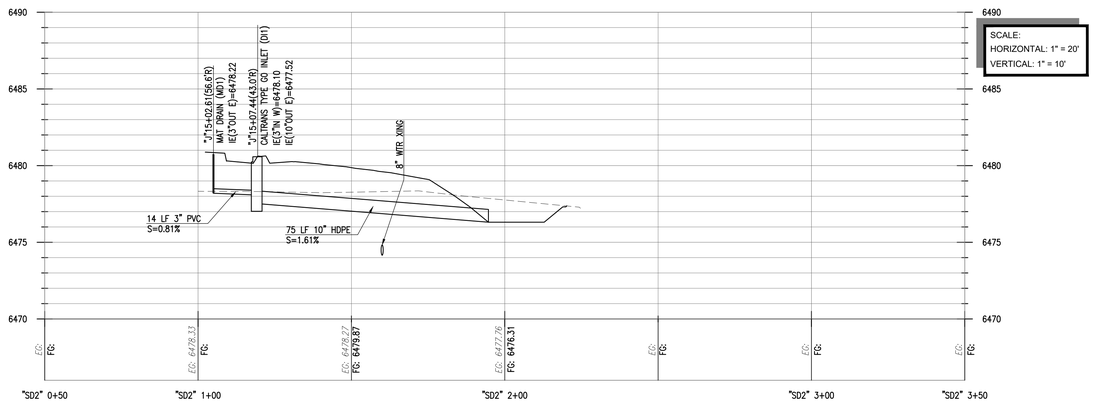

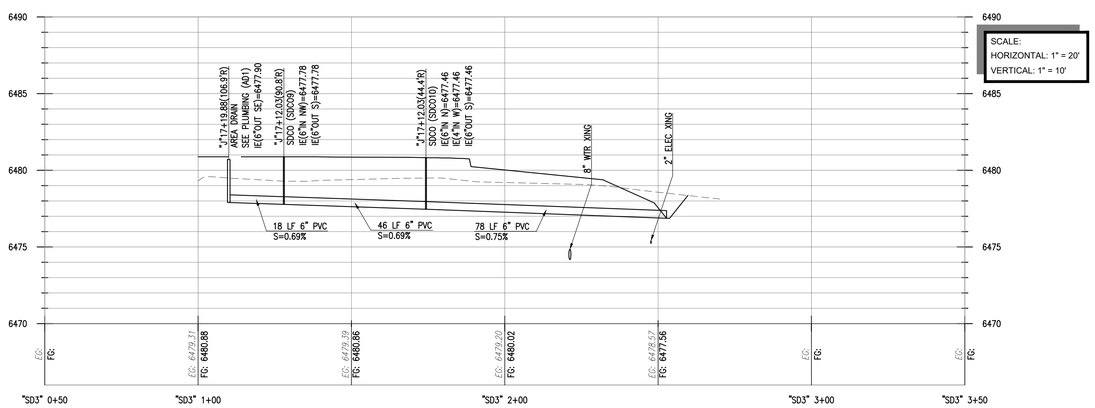

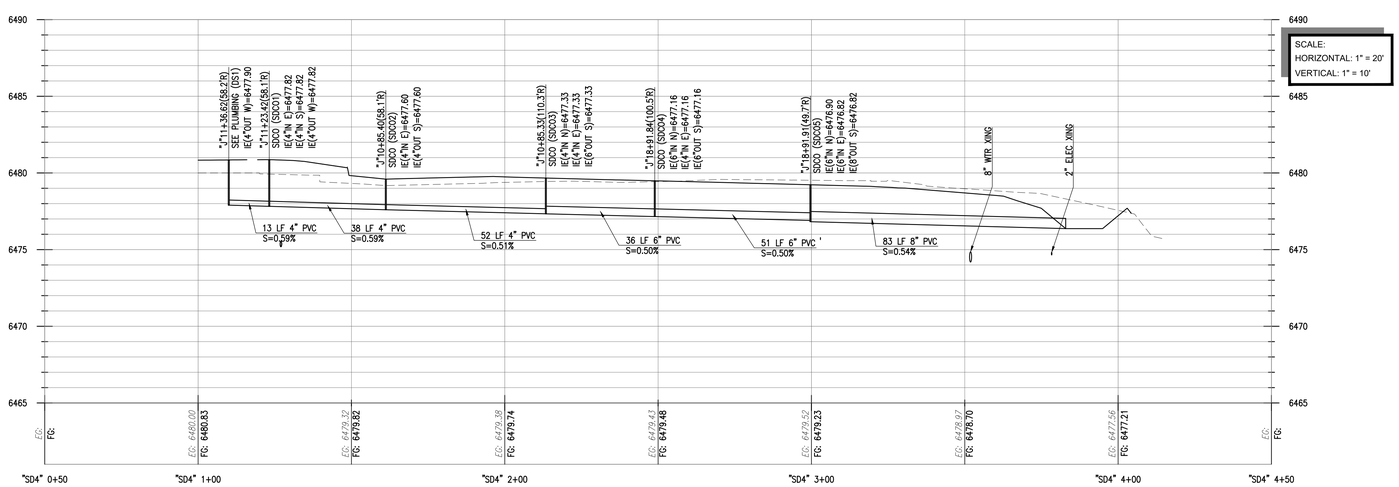

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UTILITY PROFILE STORM DRAIN

SHEET

C-104

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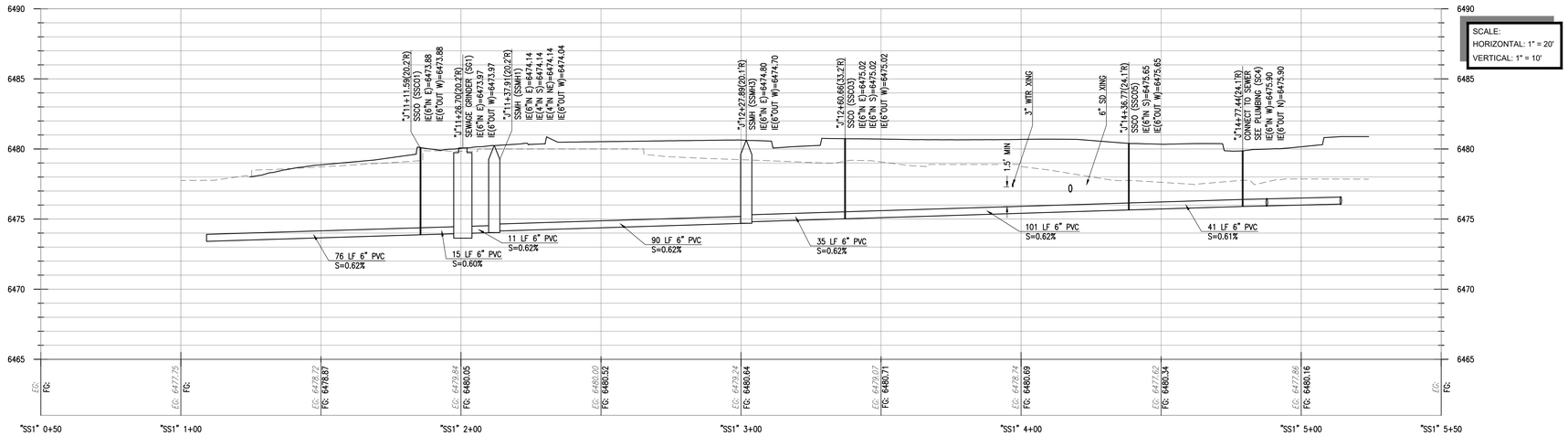

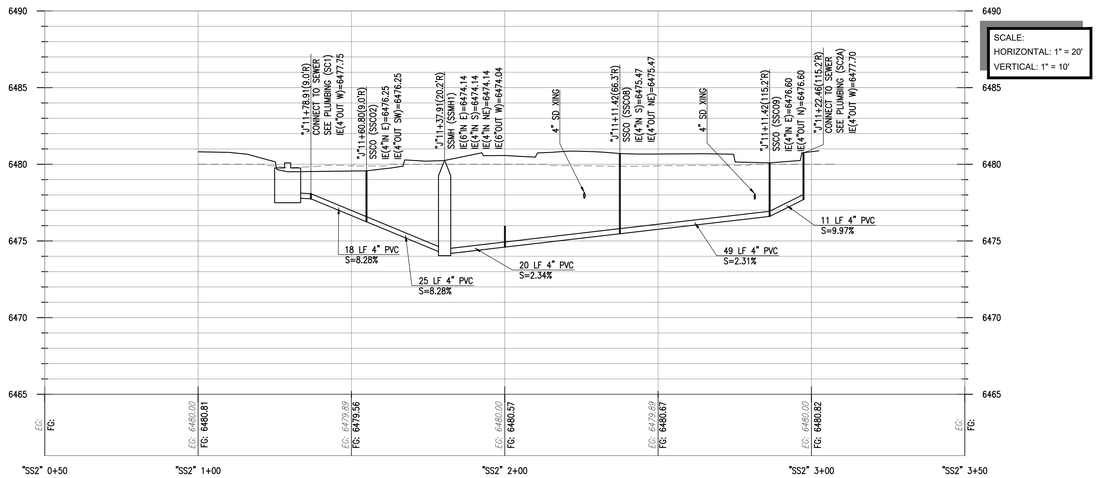

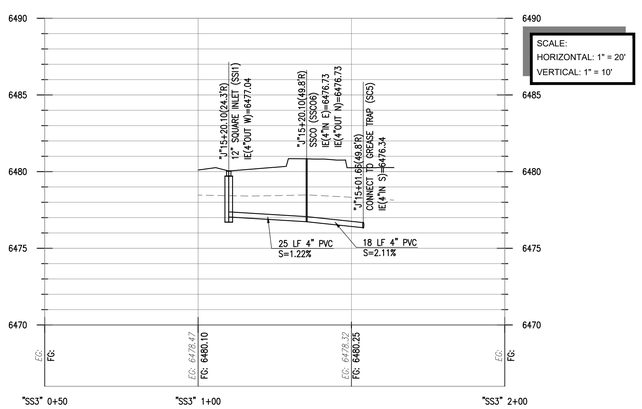

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TITLE

UTILITY PROFILE SANITARY SEWER

SHEET

C-105

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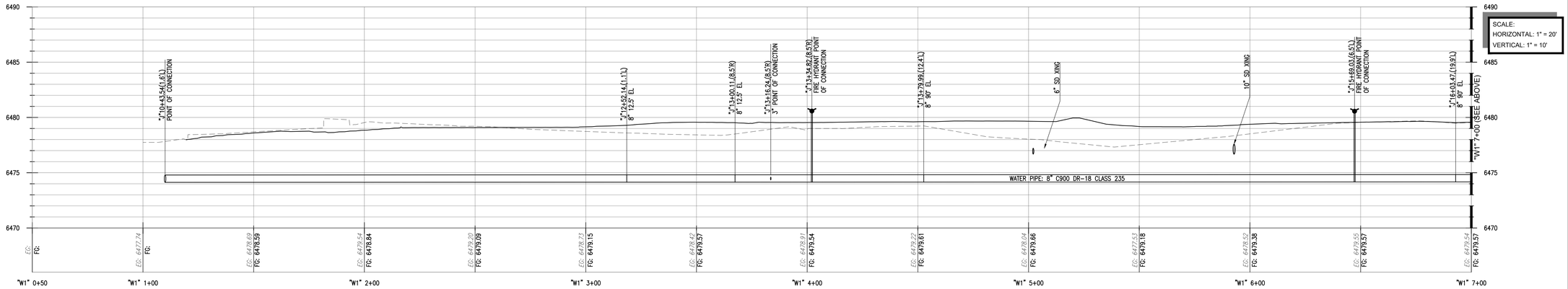

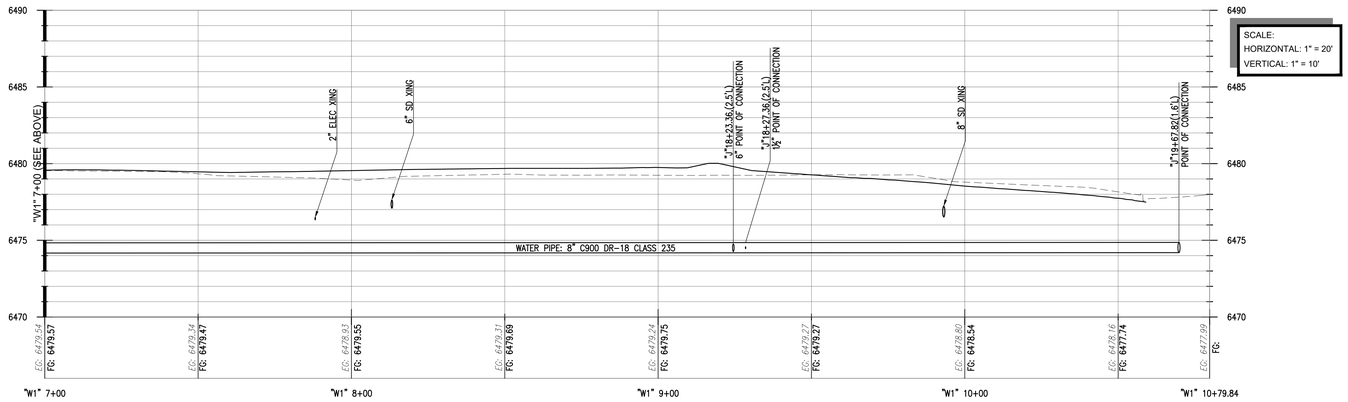

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TITLE

UTILITY PROFILE
WATER

SHEET

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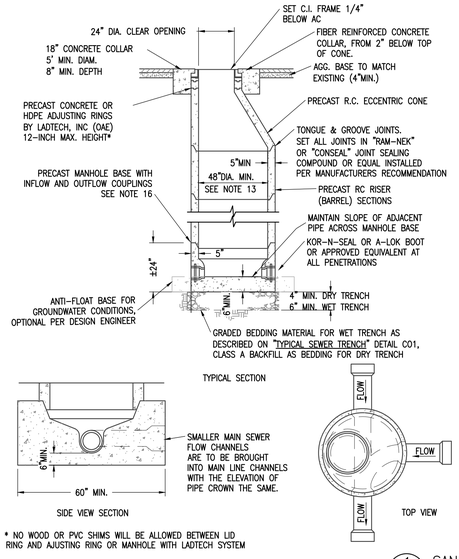
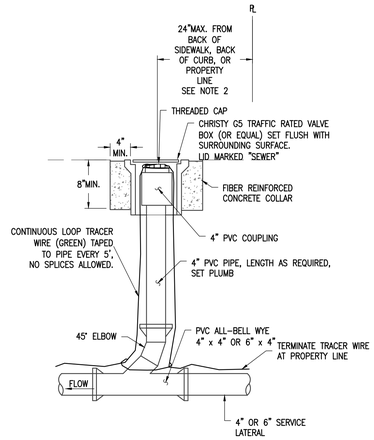


* NO WOOD OR PVC SHIMS WILL BE ALLOWED BETWEEN LID RING AND AJUSTING RING OR MANHOLE WITH LADTECH SYSTEM

1 C501 SANITARY SEWER MANHOLE
N.T.S.

NOTES:

1. CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE SEWER UTILITY AND ALL OTHER UTILITIES 48 HOURS PRIOR TO CONSTRUCTION.
2. ALL CONSTRUCTION SHALL CONFORM TO SEWER UTILITY'S STANDARDS AND NO BACKFILLING WILL BE ALLOWED UNTIL INSPECTED AND APPROVED.
3. MANHOLE SHALL BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE SECTIONS CONFORMING TO ASTM DESIGNATION C478 WET CAST ONLY.
4. EXCAVATION FOR MANHOLE MUST BE MADE TO A MINIMUM OF 1-FOOT OUTSIDE OF THE MANHOLE WALL TO PROVIDE FOR ADEQUATE WORKSPACE. SPACE OUTSIDE OF THE MANHOLE SHALL BE BACKFILLED WITH ACCEPTABLE MATERIAL IN UNIFORM LAYERS NOT EXCEEDING 12-INCHES IN DEPTH. EACH LAYER SHALL BE THOROUGHLY COMPACTED TO THE DENSITY OF THE EARTH IN THE ADJACENT TRENCH SECTIONS. (MIN. 90% IN EXISTING OR PROPOSED STREET OR ALLEY RIGHTS-OF-WAY).
5. CAST IRON FRAME AND COVER SHALL BE 24-INCH DIAMETER (CLEAR OPENING) AND SHALL BE MANUFACTURED FROM GRAY CAST IRON CONFORMING TO ASTM DESIGNATION: A 48, CLASS 30 AND DESIGNED FOR A MINIMUM HS-20 TRAFFIC LOADING. COVERS AND FRAMES SHALL BE MATCH-MARKED IN PAIRS AND SEATING SURFACES MACHINED SO THAT COVER IS NON-ROCKING. COVERS SHALL HAVE ONE PICK HOLE, AND ONE CENTRALLY LOCATED 1-INCH DIG HOLE. COVERS SHALL HAVE NO "THRU" HOLES.
6. ALL BASES MUST BE PRECAST UNLESS OTHERWISE APPROVED BY THE SEWER UTILITY.
7. CONCRETE FOR CAST-IN-PLACE MANHOLE BASE, IF APPROVED BY THE SEWER UTILITY FOR USE, SHALL CONFORM TO SECTION 202 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
8. SEWER STUBS FOR FUTURE EXTENSION SHALL BE NO MORE THAN 5-FEET IN LENGTH.
9. THE TOP OF INCOMING LATERAL SEWERS SHALL ENTER THE MANHOLE AT AN ELEVATION EQUAL TO THE TOP OF THE MAIN LINE. EXCEPTIONS ONLY BY PRIOR SEWER UTILITY APPROVAL.
10. INVERTS SHALL BE FORMED DIRECTLY IN CONCRETE OF MANHOLE BASE AND SHALL BE SMOOTH AND ACCURATELY SHAPED TO A SEMI-CIRCULAR BOTTOM CONFORMING TO THE INSIDE OF THE ADJACENT SEWER SECTION. MAINTAIN SLOPE OF ADJACENT PIPELINE ACROSS THE MANHOLE BASE.
11. WHERE MANHOLES ARE NOT LOCATED IN STREETS, PLACE TOP OF MANHOLE 8-INCHES ABOVE THE EXISTING GROUND UNLESS OTHERWISE REQUIRED BY THE SEWER UTILITY. INSTALL THE CONCRETE COLLAR FROM A POINT 6-INCHES OUTSIDE THE TOP OF THE COVER FRAME AND EXTEND A MINIMUM OF 12-INCHES BELOW THE SURROUNDING GROUND SURFACE. TAPER THE CONCRETE COLLAR FROM TOP TO BOTTOM AT A 1:1 SLOPE OR FLATTER.
12. PROVIDE 60-INCH MINIMUM DIAMETER MANHOLE FOR PIPES LARGER THAN 15-INCH DIAMETER.
13. COAT EXTERIOR OF MANHOLE WHERE GROUNDWATER CONDITIONS ARE PRESENT AS APPROVED BY SEWER UTILITY.
14. ALL MANHOLES SHALL BE VACUUM TESTED FROM TOP OF CONE PRIOR TO PAVING.
15. POLYMER MANHOLES SHALL BE REQUIRED AT ALL FORCE MAIN OUTLETS. POLYMER MANHOLES SHALL BE INSTALLED DOWNSTREAM OF MANHOLE WHERE FORCE MAIN CONVERTS TO GRAVITY FLOW. ONE POLYMER MANHOLE FOR EVERY 1-INCH DIAMETER SIZE OF THE FORCE MAIN.
16. PIPE INVERT ELEVATIONS SHALL BE A MINIMUM OF 0.1 FEET ABOVE OUTFLOW PIPE ELEVATIONS FOR STRAIGHT FLOW THROUGH OR 0.2 FEET FOR 90 DEGREE BEND FLOW THROUGH.

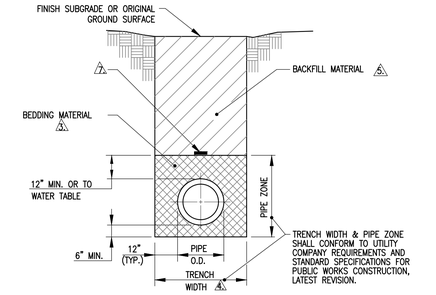


NOTE: ALL JOINTS AND CONNECTIONS SHALL BE WATERTIGHT.

NOTES:

1. CLEANOUTS TO BE PLACED AT EVERY ANGLE GREATER THAN, OR EQUAL TO 45°, EVERY 150' OF LATERAL, AND WITHIN 5' OF BUILDING AND IN CONFORMANCE WITH THE CURRENT EDITION OF THE UNIFORM BUILDING CODE. CLEANOUTS INSTALLED AT ANGLES SHALL BE LOCATED ON THE UPSTREAM SIDE OF THE ANGLE. CLEANOUTS SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE ANGLE.
2. CLEANOUT SHALL NOT BE LOCATED WITHIN A ROADSIDE DITCH UNDER ANY CIRCUMSTANCES.

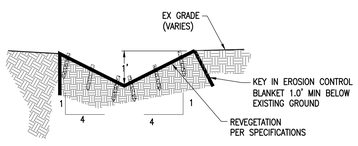
2 C501 STORM DRAIN/SANITARY SEWER CLEANOUT
N.T.S.



NOTES

1. A PERMIT MUST BE OBTAINED FROM THE PUBLIC WORKS DIRECTOR PRIOR TO CUTTING ANY PUBLIC RIGHT-OF-WAY. 24 HOURS PRIOR TO TRENCH EXCAVATION, THE PERMITTEE MUST NOTIFY THE TOWN PUBLIC WORKS DIRECTOR INSPECTOR OR APPLICABLE ENGINEER OF RECORD.
2. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST REVISION.
3. BEDDING MATERIAL SHALL CONFORM TO OWNING-UTILITY COMPANY REQUIREMENTS AS APPROVED BY THE TOWN. FOR TOWN-OWNED UTILITIES, BEDDING MATERIAL SHALL BE COMPACTED TO 90% MINIMUM. FOR TRAFFIC/ELECTRICAL CONDUIT TRENCHES LESS THAN 12 INCHES IN WIDTH, INCLUDING VERMIER TRENCHES, BEDDING SHALL BE APPROVED SCREENED 3" MINUS MATERIAL. BACKFILL SHALL BE CEMENT SLURRY (ONE SACK). CEMENT SLURRY BEDDING/BACKFILL MAY BE USED AS AN ALTERNATE BACKFILL MATERIAL WITH WRITTEN APPROVAL FROM THE TOWN ENGINEER FOR EACH SPECIFIC APPLICATION.
4. ALL EXCAVATIONS SHALL CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS. SHORING OR SLOPED CUT MAY BE NECESSARY, BUT THERE WILL BE NO PAYMENT FOR ADDITIONAL EXCAVATION, BEDDING, BACKFILL, OR SHORING.
5. SEE TOWN STANDARD 005 FOR TRENCH BACKFILL SPECIFICATIONS.
6. EDGE OF 4 INCH ROCK WHEEL TRENCHES FOR CONDUIT SHALL BE LOCATED A MINIMUM OF 9 INCHES FROM GUTTER LIP.
7. PIPE TAPE IDENTIFICATION OF UTILITY SHALL BE INSTALLED.

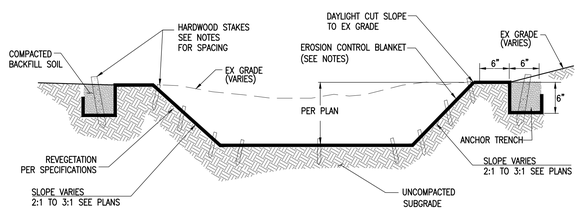
3 C501 UTILITY TRENCH
N.T.S.



NOTES:

1. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN C125BN OR PRODUCT EQUAL.
2. STAKES SHALL BE 8 TO 10 INCHES IN LENGTH, HARDWOOD, PER THE MANUFACTURER'S RECOMMENDATIONS
3. SPREAD SOIL AMENDMENTS.
4. TILL SOIL AND INCORPORATE AMENDMENTS TO DEPTH OF 4"-6".
5. SPREAD AND RAKE SEED MIX.
6. INSTALL EROSION CONTROL BLANKETS BEGINNING AT THE DOWNSTREAM END OF THE SWALE, WORKING UP SO THE BLANKETS ARE OVERLAPPED PERPENDICULAR TO THE FLOW LINE. OVERLAP BLANKETS 12" SO FLOW DOES NOT PIPE OR UNDERMINE BLANKETS.
7. STAKE DOWN ON AN AVERAGE 2 STAKES PER SQUARE YARD IN A DIAMOND PATTERN PER MANUFACTURER'S RECOMMENDATIONS.
8. ANCHOR BLANKETS IN ANCHOR TRENCHES WITH HARDWOOD STAKES ON 1-FOOT CENTERS, BACKFILL ANCHOR TRENCH AND COMPACT LOOSE SOIL.
9. PROVIDE TEMPORARY IRRIGATION PER THE SPECIFICATIONS.

4 C501 BIOSWALE
N.T.S.



SECTION

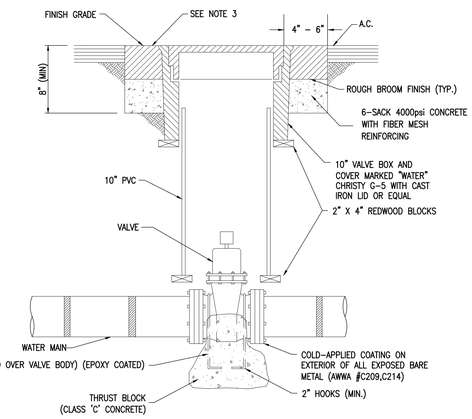
NOTES:

1. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN C125BN OR PRODUCT EQUAL.
2. STAKES SHALL BE 8 TO 10 INCHES IN LENGTH, HARDWOOD, OR AS APPROVED BY ENGINEER.
3. INSTALL EROSION CONTROL BLANKETS BEGINNING AT THE DOWNSTREAM END OF THE BASIN, WORKING UP AND ACROSS THE SWALE IN SHINGLE PATTERN SO THE BLANKETS ARE OVERLAPPED PERPENDICULAR TO THE FLOW LINE. OVERLAP BLANKETS SO FLOW DOES NOT PIPE OR UNDERMINE BLANKETS.
4. STAKE DOWN ON AN AVERAGE 2 STAKES PER SQUARE YARD IN A DIAMOND PATTERN.
5. ANCHOR BLANKETS IN ANCHOR TRENCHES WITH HARDWOOD STAKES ON 1-FOOT CENTERS, BACKFILL ANCHOR TRENCH AND COMPACT LOOSE SOIL.

IMPLEMENTATION STEPS FOR REVEGETATION

1. SPREAD SOIL AMENDMENTS
2. TILL SOIL AND INCORPORATE AMENDMENTS TO DEPTH OF 4"-6".
3. SPREAD AND RAKE SEED MIX
4. INSTALL EROSION CONTROL BLANKET
5. TEMPORARY IRRIGATION

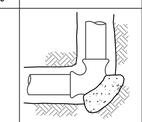
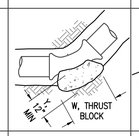
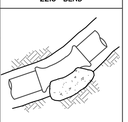
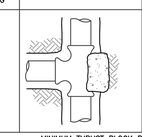
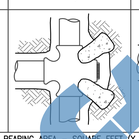
5 C501 SNOW STORAGE/BIORETENTION BASIN
N.T.S.



GENERAL NOTES

1. CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 202.12 OF THE STANDARD SPECIFICATIONS.
2. IN ALL AREAS, LIDS SHALL BE SET FLUSH WITH FINISH GRADE UNLESS OTHERWISE NOTED.
3. THE CONCRETE COLLAR SHALL BE LEFT 2-1/2" - 3" BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 A.C. PAVING. CHIP OR FOG SEAL PAVED SURFACE. EXCEPTION: WHEN STRUCTURE NOT LOCATED IN ASPHALT PAVEMENT OR IN AN UNPAVED AREA, EXTEND CONCRETE TO FINISH GRADE. ALL CUTS IN A.C. SHALL BE STRAIGHT & EVEN.

6 C501 GATE VALVE ASSEMBLY
N.T.S.

TYPE OF FITTING	90° BEND	45° BEND	11.25° OR 22.5° BEND
TYPICAL INSTALLATION			
TYPE OF FITTING	TEE OR DEAD END	CROSS W/PLUG	TEE W/PLUG
TYPICAL INSTALLATION			

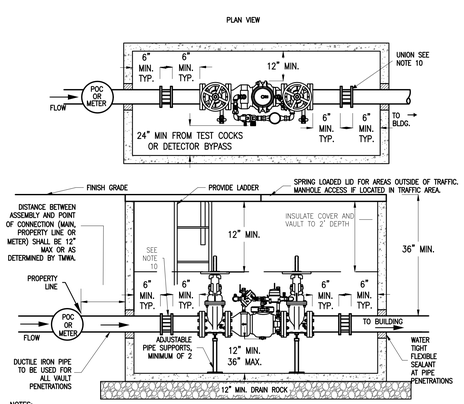
MINIMUM THRUST BLOCK BEARING AREA - SQUARE FEET* (Y X W)

TYPE OF FITTING		90° BEND, CROSS W/PLUG OR TEE W/PLUG	45° BEND	11.25° OR 22.5° BEND	TEE OR DEAD END
SIZE OF PIPE	4"	2	1	1	2
	6"	5	3	2	4
	8"	8	5	3	6
	10"	13	7	4	9
	12"	18	10	5	13
	14"	25	13	7	17
	16"	32	17	9	23

NOTES:

1. CONCRETE FOR THRUST BLOCKS SHALL CONFORM TO SECTION 337.10 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
2. THRUST BLOCKS SHALL BE PLACED AGAINST UNDISTURBED SOIL.
3. JOINTS AND FACE OF PLUGS SHALL BE KEPT CLEAR OF CONCRETE.
4. THRUST BLOCK BEARING AREAS ARE FOR A 160 PSI TEST PRESSURE WITH 2000 PSF BEARING CAPACITY, NOMINAL PIPE DIAMETER, AND A FACTOR OF SAFETY OF 1.5. INSTALLATIONS USING DIFFERENT TEST PRESSURES, AND/OR SOIL TYPES SHALL BE ADJUSTED BY THE DESIGN ENGINEER.
5. ALL JOINTS SHALL BE POLYWRAPPED (VIRGIN POLYETHYLENE, 8 MILS THICK).

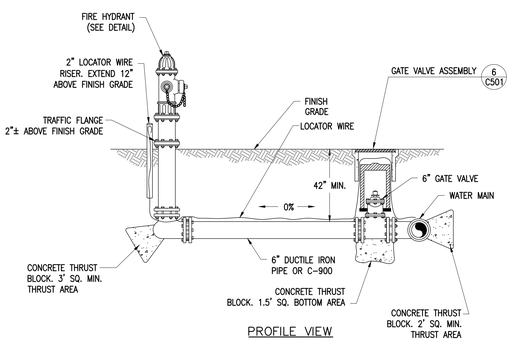
7 C501 THRUST BLOCKS
N.T.S.

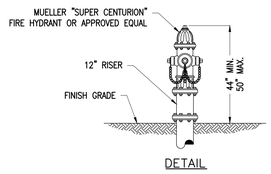


NOTES:

1. ASSEMBLY SHALL BE A USC APPROVED LEAD FREE DEVICE.
2. FREEZE PROOF INSULATED VAULT REQUIRED.
3. BELOW GROUND VAULT SHALL BE SIZED TO PROVIDE CLEARANCES AS SHOWN ABOVE.
4. BELOW GROUND VAULT SHALL REMAIN DRY THROUGHOUT THE YEAR, CONTRACTOR SHALL ENSURE THERE IS PROPER DRAINAGE AROUND THE VAULT
5. SPRING LOADED LID REQUIRED ON LARGE VAULTS WITH ASSEMBLIES LARGER THAN 2 INCHES. MANHOLE ACCESS IS REQUIRED IN AREAS SUBJECT TO VEHICULAR TRAFFIC.
6. NO STOP AND WASTE VALVES.
7. CALL LOCAL BUILDING AND/OR FIRE DEPARTMENTS FOR DEPTH AND TYPE OF PIPE TO BE USED.
8. TESTING OF THE ASSEMBLY REQUIRED WITHIN 7 DAYS AFTER METER IS SET OR SERVICE ACTIVATION.
9. UNIONS TO BE INSTALLED WITH ALL ASSEMBLIES ON BOTH SIDES OF ASSEMBLY.
10. VALVES ON DETECTOR BYPASS SHALL REMAIN OPEN AT ALL TIMES.

8 C501 BACKFLOW PREVENTER
N.T.S.





9 C501 FIRE HYDRANT ASSEMBLY
N.T.S.

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SEAL

REGISTERED PROFESSIONAL ENGINEER
FRANK C. HALTOM
NO. C 047225
EXP. 06/30/25
CIVIL
STATE OF CALIFORNIA
08/25/23

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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SHEET
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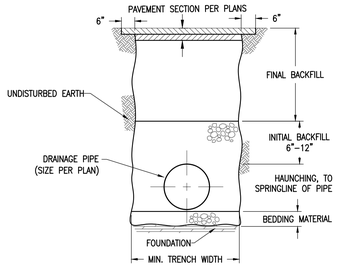


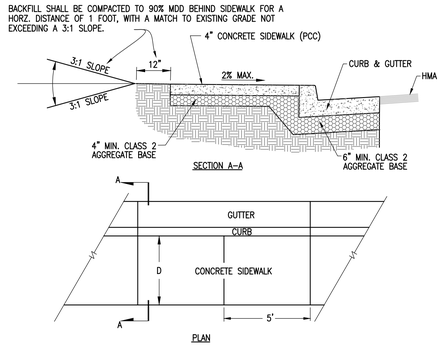
TYPICAL TRENCH CROSS–SECTION
NTS

GENERAL NOTES FOR STORM DRAIN TRENCH

1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS," LATEST EDITION; AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER. THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
2. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
3. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4 INCH FOR 4 INCH – 24 INCH AND 42 INCH – 48 INCH CORRUGATED POLYETHYLENE PIPE (CPEP); 6 INCH FOR 30 INCH – 36 INCH CPEP.
4. HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III AND INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
5. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, MINIMUM TRENCH WIDTHS SHALL BE AS FOLLOWS:

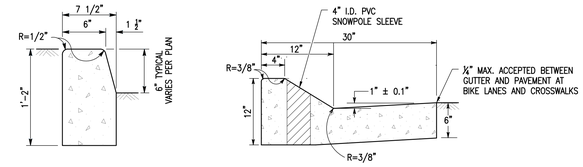
NOMINAL ID INCH	MINIMUM RECOMMENDED TRENCH WIDTH INCH
12 WHERE APPROVED	31
15 WHERE APPROVED	34
18	39
24	48
30	66

1 C502 STORM DRAIN TRENCH
N.T.S.



NOTES:
1. MIN. CURB RADIUS SHALL BE 20 FEET, UNLESS OTHERWISE SPECIFIED.
2. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLAN VIEW AND SECTION 73–3.03 "EXPANSION AND CONTRACTION JOINTS" OF THE STANDARD SPECIFICATIONS (2010).
3. COLORED CONCRETE IS NOT ALLOWED, UNLESS APPROVED BY THE ENGINEER.
4. ON SIDEWALKS WIDER THAN 5', JOINTING PATTERN SHALL BE .8 TO 1.2 TIMES THE WIDTH OF THE SIDEWALK.
5. SIDEWALK WIDTH "D" SHALL BE 48" MINIMUM
6. CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 32 16 00 OF THE PROJECT SPECIFICATIONS FOR CONCRETE IN FREEZE–THAW AREAS.
7. NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY THE ENGINEER.
8. CONCRETE REMOVAL SHALL BE TO NEAT SAWCUT LINES.

2 C502 SIDEWALK
N.T.S.

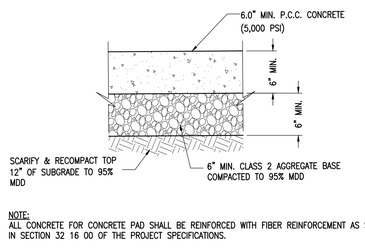


TYPE A1 CURB

TYPE A2 CURB

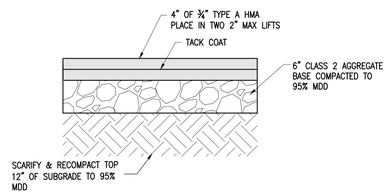
NOTES:
1. DIFFERENCE IN SLOPE OF THE DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5'–0" FROM GUTTER LINE SHALL NOT EXCEED 15%. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED.
2. ACROSS THE PEDESTRIAN ROUTE AT CURB RAMP LOCATIONS, THE GUTTER PAN SLOPE SHALL NOT EXCEED 1" OF DEPTH FOR EACH 2'–0" OF WIDTH.
3. TOP OF CURB TO FLOWLINE HEIGHT SHALL BE 6" STANDARD UNLESS PROPOSED FLOWLINE AND EXISTING SIDEWALK ELEVATION REQUIRES VARIANCE
4. PLACE SNOWPOLE SLEEVE AT BEGINNING AND END OF CURB AND GUTTER AND AT 100' MAXIMUM SPACING.

3 C502 CURB AND GUTTER
N.T.S.

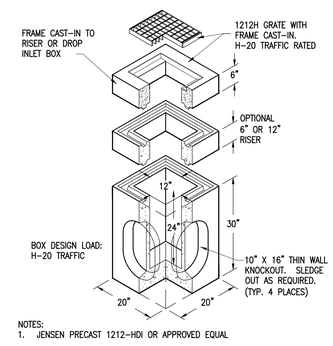


NOTE:
ALL CONCRETE FOR CONCRETE PAD SHALL BE REINFORCED WITH FIBER REINFORCEMENT AS SPECIFIED IN SECTION 32 16 00 OF THE PROJECT SPECIFICATIONS.

4 C502 PCC DUMPSTER AND ADA PARKING PAD
N.T.S.

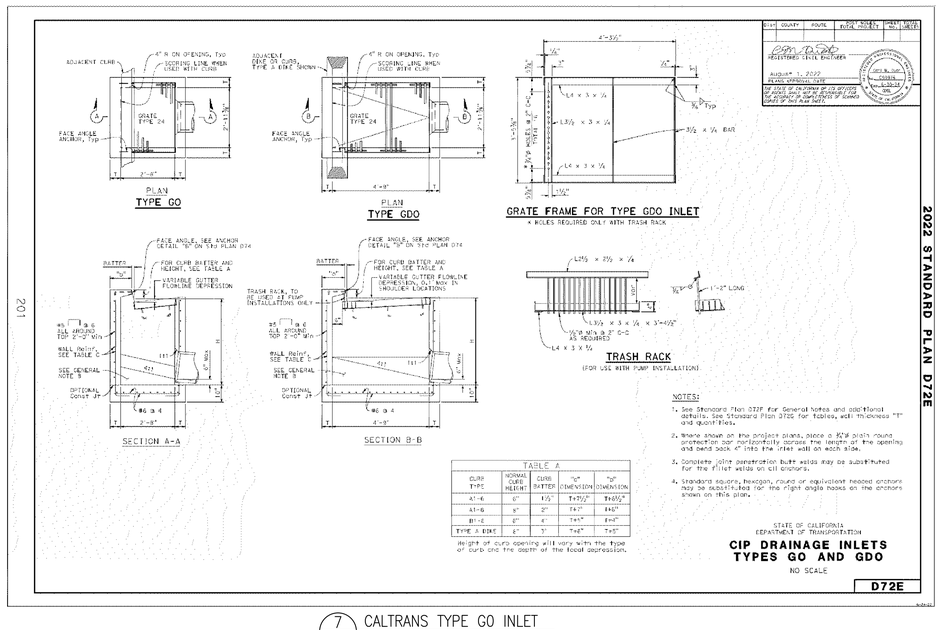


5 C502 TYPICAL PAVEMENT SECTION
N.T.S.

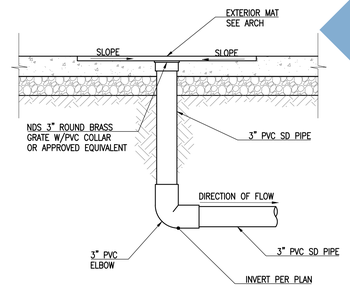


NOTES:
1. JENSEN PRECAST 1212–HDI OR APPROVED EQUAL

6 C502 12" SQUARE INLET
N.T.S.



7 C502 CALTRANS TYPE GO INLET
N.T.S.



8 C502 3" MAT DRAIN
N.T.S.

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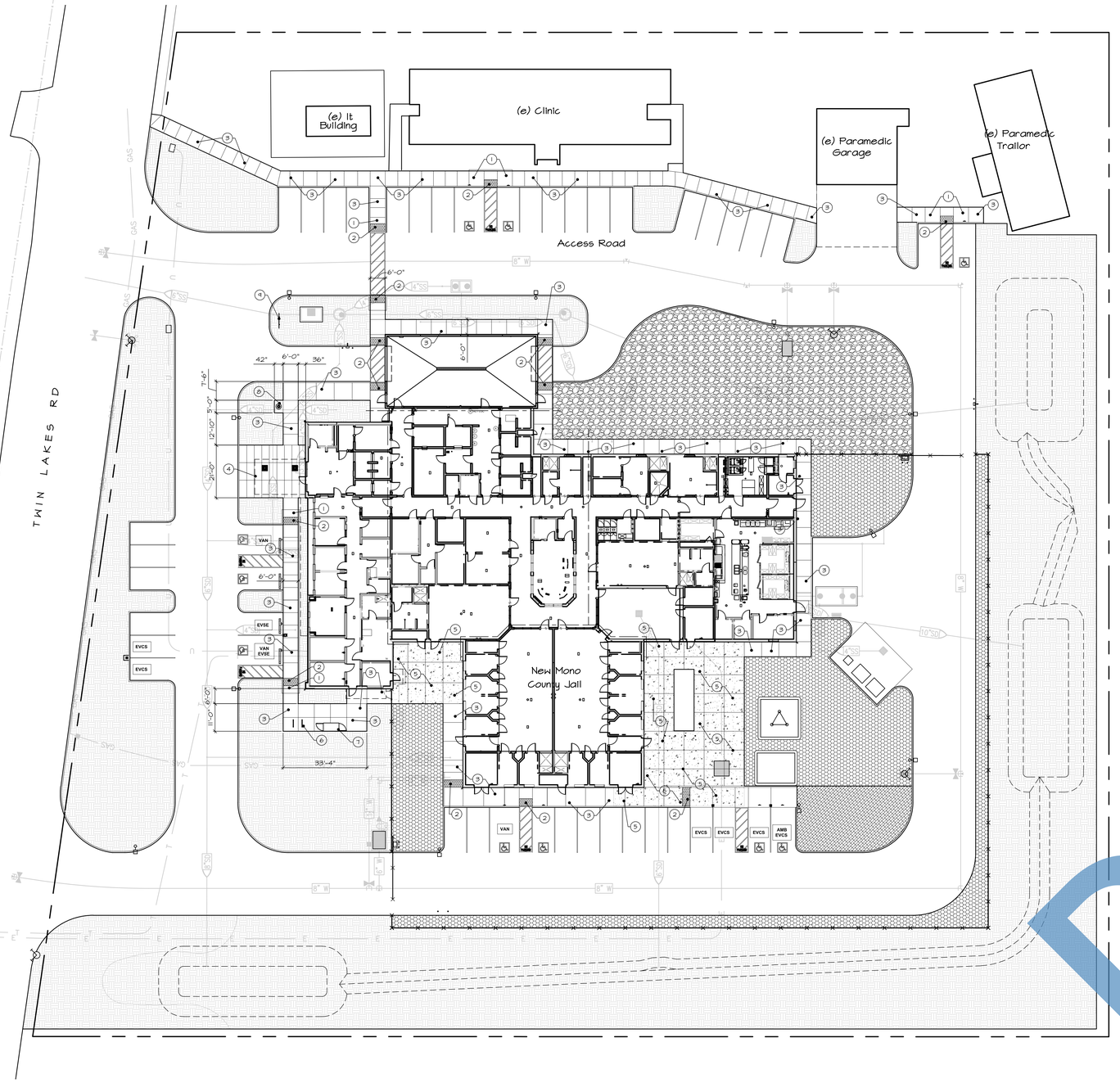

Construction Callouts

No.	Detail	Item Description
1	Per Architect	Accessible curb ramp per Architect's plans
2	Per Architect	Truncated domes per Architect's plans
3	A, L-201 and civil detail 2, sheet C-502	Install natural gray medium broom finish concrete paving. Install troweled score joints in spacing to match sidewalk width and expansion joints at max. 20' on center, or as shown on plans. See Civil Engineer's plans for paving sections.
4	A, L-201 and civil detail 2, sheet C-502	Install natural gray medium broom finish concrete paving with enhanced score pattern. Provide troweled score joint 3'x7' rectangular grid pattern in paving field, grid direction as shown in plans. See Civil Engineer's plans for paving sections.
5	A, L-201 and civil detail 4, sheet C-502	Install natural gray cast-in-place concrete paving. Provide grid scoring in size and direction as shown in plan. See Civil Engineer's plans for paving sections.
6	B, L-201	Install in-ground mount bike rack. Model HCR02-16 available from bikeparking.com. Manufacturer's powdercoat color to be selected.
7	C, L-201	Install bike locker by madrax - ML2-2. Manufacturer's powdercoat color to be selected.
8	Per Architect	Flag pole - 30' Continental flagpole with external halyard system available from Concord Industries. Model ESR30051-Satin, with manufacturer's External halyard beacon-Heavy Duty revolving pole top light, model ABEH-3055-SLD-satin. Install per manufacturer's specifications.
9	Per Architect	Wayfinding Sign per Architect
		Landscape area - see Planting and Irrigation Plans
		Aggregate - see Planting Plan
		Decomposed granite - see Planting Plan
		Stabilized decomposed granite - see Planting Plan

General Construction Notes

1. All dimensions are taken from curb face, building face, or edge of paving, unless otherwise noted on the plan. The dimensions are shown for approximate line and all radii and curves are to have continuous and smooth transitions without abrupt changes or bends.
2. All forms and alignment of paving shall be reviewed and approved by the landscape Architect and/or owner prior to pouring (provide a minimum of 48 hours notice).
3. For site grading see Civil Engineer's plans.
4. Contractor shall verify location of all utilities prior to construction and shall be liable for all damages incurred.
5. Contractor shall note and install all sleeve locations as noted on the Irrigation Plans prior to installation of paving.
6. All construction and workmanship shall conform to the applicable edition of the California Building Code and all other governing codes, ordinances, and laws.
7. These notes shall be used in conjunction with the plans and any discrepancies shall be brought to the attention of the Landscape Architect.
8. The contractor must check all dimensions, framing conditions, and the condition of the site prior to commencing with work. The Landscape Architect is to be notified immediately of any discrepancies or deficiencies.
9. Conditions not specifically shown shall be constructed similar to the details for the respective materials.
10. The drawings and specifications represent the finished structure. All bracing, temporary supports, shoring, etc. is the sole responsibility of the contractor.
11. Observation visits to the job site by the Landscape Architect do not include inspection of construction methods and safety conditions of the worksite. These visits shall not be construed as continuous and detailed inspections.
12. Design, materials, equipment, and products other than those described on the drawings or in the specifications may be considered for use, provided prior approval has been obtained from the owner, Landscape Architect, and applicable governing authority.

Accessibility Compliance Notes

Path of Travel

1. There is to be an accessible route of travel from public sidewalks to all public buildings.
2. This walk must be a minimum of 36 wide. If there are any obstructions in the path of travel, there must be a minimum of 48" clearance around the obstruction (sign post, hydrant, etc.).
3. There shall be no projections into the accessible route below 80" above the surface of the paving such as, but not limited to, signs, utilities, drinking fountains, architectural ornamentation, rails, etc.
4. Contractor to verify that all path of travel walkways meet the undobstructed criteria and make necessary corrections if this is not the case.
5. All walks to have any necessary curb ramps, ramps, or sloped walks to access public buildings and general outdoor spaces.
6. There shall be no steps or grade separation (1/4" max.) along the accessible route.
7. Curb ramps to be installed with truncated dome panels of contrasting color (Black, Dark Gray, or Colonial Red) available from Armor-Tile or approved equal. Install per ADA and local codes. See Specific Curb Ramp Notes.
8. For accessible path walkways that are less than 5' width, there shall be a 5' x 5' "passing space" provided at min. 200' on center. A "T" intersection is an acceptable passing space.
9. Where doors or gates swing outward toward the walkway there shall be a min. 5' x 5' landing area with slopes not to exceed 2%. Where doors or gate swing away from walkway the level landing area shall be a min. 48" x 44" with max. 2% slope.
10. The walk must extend 24" past the strike side of any door or gate that swings toward the walk.
11. The walk must extend 12" past the strike side of the gate opposite the swing side for all self-closing gates.

Curb Ramps

1. Curb ramps shall meet all ADA and local codes. In all cases current codes shall take precedence over the notes, details, and layout as shown on these plans. Notify the Landscape Architect of any discrepancy.
2. Ramps shall be a minimum of 48" wide and shall not exceed 1:12 (8.33%) slope. Ramp shall be a single, slip resistant plane sloping only in the direction of the ramp.
3. The maximum slope of tanned or flared sides shall not exceed 1:10 (10%).
4. For ramps that end at a vehicular traffic zone, the full surface of the running portion of the ramp shall be covered in truncated domes (of contrasting color), available from Armor-Tile or other approved equal.
5. Transition at bottom of ramp shall be flush (max. 1/4") and free of abrupt changes.

Vehicular and Pedestrian Separation

1. Wherever a pedestrian zone crosses or adjoins a vehicular zone and the surfaces are not separated by curbs or railings, the boundary between them shall be installed with a min. 36" wide strip of truncated domes the full length of the flush adjoinment.
2. Truncated domes shall consist of durable, slip-resistent material having a surface texture composed of raised, truncated domes meeting current ADA requirements and the California Building Codes as well as local codes. Armor Tile or approved equal shall be used.
3. The truncated dome strip shall be of contrasting color to provide a min. of 75% contrast between the paved surface and the truncated dome strip.
4. Federally funded projects and specific local requirements may require truncated domes to be yellow - Red color No. 33538. Where the color contrast between the pedestrian paving and the yellow truncated domes is less than 70% a min. 1" wide black strip shall be installed to separate the dome strip from the pedestrian surface.

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NORTH
Scale: 1" = 20'-0"
0' 10' 20' 40'

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SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

SCHEMATIC LANDSCAPE SITE PLAN

SHEET

L-101

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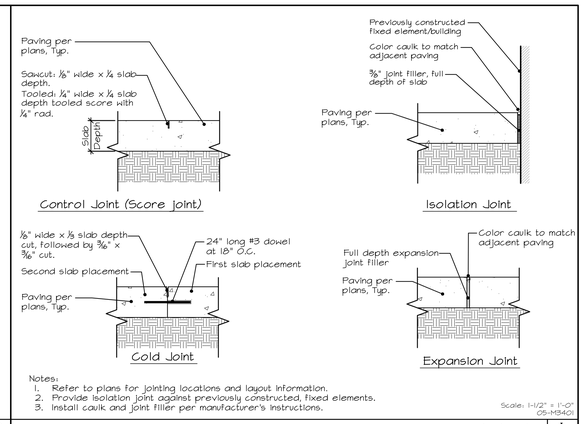


Notes:
1. Refer to plans for jointing locations and layout information.
2. Provide isolation joint against previously constructed, fixed elements.
3. Install caulk and joint filler per manufacturer's instructions.

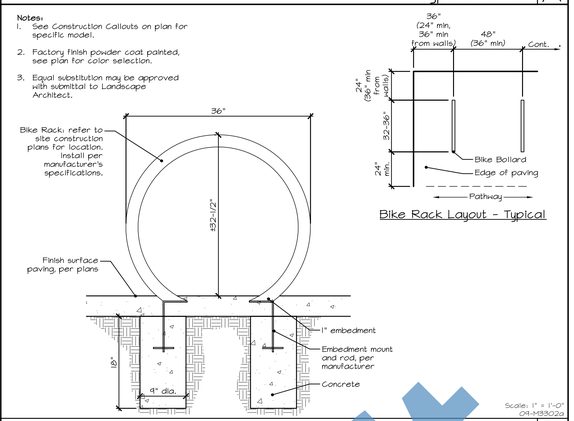
Scale: 1-1/2" = 1'-0" (05-M340)

Typical Joints A

No Detail H

No Detail D

Notes:
1. See Construction Callouts on plan for specific model.
2. Factory finish powder coat painted, see plan for color selection.
3. Equal substitution may be approved with submittal to Landscape Architect.

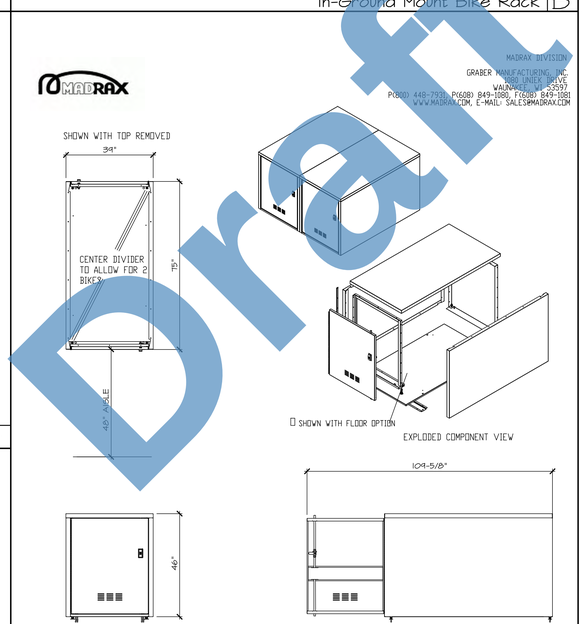


Scale: 1" = 1'-0" 04-M330.2a

In-Ground Mount Bike Rack B

No Detail I

No Detail E



CHECK LOCKING STYLE
☐ HEAVY DUTY 4366 POP-OUT "T" HANDLE WITH 2 USER KEYS (KEYED DIFFERENTLY)
☒ STEEL U-LOCK AND PADLOCK STYLE HANDLE (PADLOCK AND U-LOCK NOT INCLUDED)

OTHER AVAILABLE OPTIONS
* PERFORATED WALLS AND DOORS
* GEAR HOOKS
* NUMBER PLATES
* GRAFFITI RESISTANT ADDITIONAL COATING

CHECK DOOR STYLE
☐ SOLID DOOR
☒ BICYCLE PERFORATION DOOR
☐ FULL PERFORATION DOOR

NOTES:
1. INSTALL BIKE RACKS ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. CONSULTANT TO SELECT COLOR/FINISH. SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION OR CONSULT OWNER.

PRODUCT: ML2-2
DESCRIPTION: MADLOCK®BIKE LOCKER
1 UNITS - 2 DOORS, 2 BIKE CAPACITY
DATE: 10-22-12
ENG: SMC

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Scale: N.T.S. 04-M330.5.DWG

Bike Locker C

No Detail J

No Detail F

No Detail K

No Detail G

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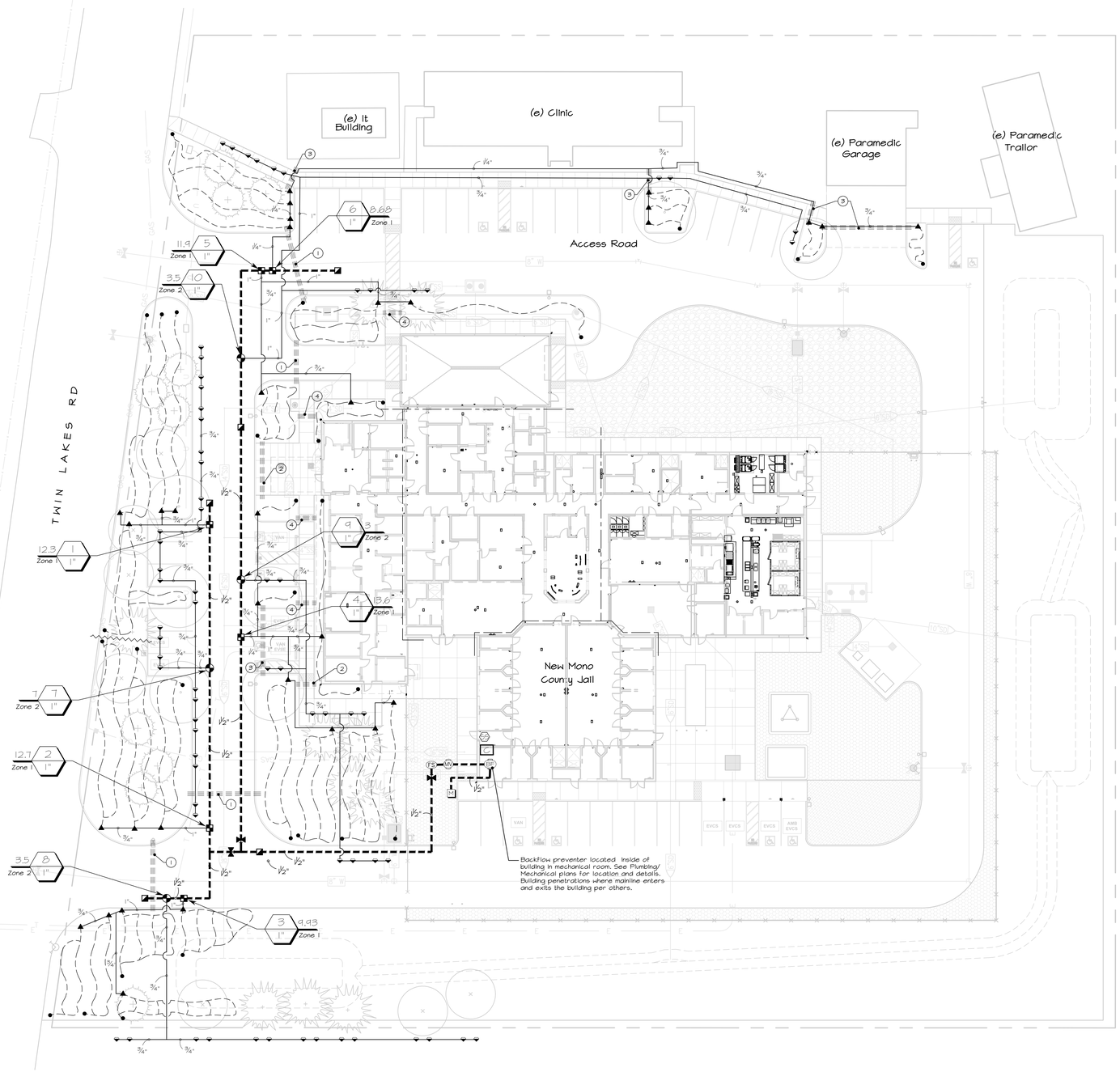

Irrigation Legend

DRIP SYSTEM COMPONENTS:

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL REFERENCE
	Approved		1/2" (0.700" O.D.) polyethylene commercial-grade drip supply tubing with Hunter HE-20-B barbed point-source emitters, per the following schedule: 1-gallon shrubs (1) emitter; 5-gallon shrubs (2) emitters	Detail A-C, sheet L-501
▲	Approved		Drip supply tubing to PVC connection	Detail A, sheet L-501
●	NDS	CEP-700	Compression flush cap in 6" round valve box with Hunter ECO-ID pop-up drip system operation indicator	Detail D, sheet L-501
			Indicates separation between drip zones	

TREE IRRIGATION:

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL REFERENCE
	Hunter	RZWS-18-25 & PCB-25	Root zone watering system (one per tree) with supplemental bubbler on PVC IPS flex riser (one per tree)	Detail E, sheet L-501

VALVES:

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL REFERENCE
	Hunter	ICZ-101-25	1" drip control zone kit	Detail F, sheet L-501
	Hunter	ICV Series	Electric remote control valve (size per plan)	Detail H, sheet L-501
	Hunter	HQ-33DLRC	3/4" quick coupler valve	Detail I, sheet L-501
	Nibco	T-113	Threaded bronze gate valve (line size), for gate valves 2-1/2" and smaller	Detail J, sheet L-501

Valve Callout
- Valve Number
- Valve Flow
- Valve Size
- WELO Hydrozone

P.O.C. EQUIPMENT:

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL REFERENCE
M	Approved		1" water meter per Civil Engineer's plans	Per Civil
BF	Febco	LF-825Y	1" lead-free reduced pressure backflow prevention device	Per Mechanical
MV	Superior	3100100	1" normally open master control valve	Detail G, sheet L-501
FS	Creative Sensor Technology	FSI-110-001	1" flow sensor	Detail G, sheet L-501

CONTROL EQUIPMENT:

SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL REFERENCE
C	Hunter	A2C-1200-M	ACC2 Series 12-station wall-mount controller (use A2M-600 6-station plug-in modules as required for number of valves)	Detail K, sheet L-501
ET	Hunter	WSS-SEN	Wireless Solar Sync ET/rain/freeze sensor	Detail L, sheet L-501

PIPING:

SYMBOL	MANUFACTURER	DESCRIPTION	DETAIL REFERENCE
	Approved	Pressurized PVC mainline (size per plan). All mainline piping 2-1/2" and smaller shall be Schedule 40 PVC with Schedule 40 PVC solvent-weld fittings; all mainline piping 3" and larger shall be Class 200 PVC gasket joint pipe with ductile iron fittings.	Detail M, sheet L-501
		Actual anticipated location of mainline (non-schematic)	
	Approved	Schedule 40 PVC lateral line (size per plan)	Detail M, sheet L-501
	Approved	Schedule 40 PVC sleeve (size and quantity per plan)	Detail N, sheet L-501

General Irrigation Notes

1. The contractor shall examine the conditions of the site prior to commencement of work. Any conditions differ from what is shown on the plans that will affect the installation process shall be brought to the attention of the Landscape Architect and/or owner prior to work. Commencement of work implies acceptance of the conditions of the site.
2. Piping layout is diagrammatic. All irrigation items shown within paved areas are for design clarification only and are to be installed in planting areas where possible. All valves are to be placed in shrub or groundcover areas (not turf).
3. All mainline piping and control wires under paving shall be installed in separate schedule 40 PVC sleeves. Sleeves to be installed at the size as indicated on the plans. If not specified, piping shall be installed in sleeves that are twice the diameter of the pipe. Control wire sleeves shall be of sufficient size for the required number of wires. Provide two (2) piping sleeves at each location and min. one (1) control wire sleeve/conduit where needed. Piping and wiring to be in separate sleeves.
4. All lateral line piping under paving (that is not in a sleeve) shall be Schedule 40 PVC and shall be installed prior to paving.
5. Pipe sizes shall conform to those shown on the drawings with no smaller size substitutions. Larger size substitutions may be approved.
6. All Backflow Prevention Devices and piping between the point of connection and Backflow Preventer shall be installed per local codes. The final location of the Backflow Preventer and the Automatic Controller shall be approved by the Owner's Representative. The contractor is responsible for the codes and requirements of all governing agencies. Any discrepancy between requirements and the plans are to be brought to the attention of the Land Architect immediately.
7. 120 VAC electrical power source at the controller location shall be provided by electrical contractor. Verify location of controller prior to installation.
8. All irrigation heads shall be set perpendicular to finish grade unless otherwise specified.
9. To be compliant with water efficient landscape ordinance requirements all overhead spray heads shall be placed min. 24" from non-permeable hardscape (sidewalk, curb).
10. Prior to turnover of project, the irrigation contractor shall flush and adjust all irrigation heads and valves for optimum coverage with minimal overspray onto hardscape elements. Drip emitters to be adjusted to provide optimal water to each plant based on specific site conditions and water needs of each plant.
11. It is the responsibility of the irrigation contractor to become familiar with all existing and proposed site elements and grades. The irrigation contractor shall repair, replace, or compensate for all items damaged by his/her work. The irrigation contractor shall coordinate his/her work with other contractors for the location and installation of pipe sleeves and laterals through walls and under paving.
12. The irrigation system design is based on a minimum operating pressure of ___ PSI and a maximum flow demand of ___ GPM. The irrigation contractor shall verify water pressures prior to installation. Any difference between the pressure indicated on the plans and that at the actual point of connection shall be brought to the attention of the landscape architect immediately.
13. Any obstructions, changes in the project layout, or grade differences not shown on the plan but affecting the operation of the irrigation system are to be brought to the attention of the landscape architect prior to installation. The irrigation contractor shall be responsible for costs associated with correcting irrigation layout if plan is different from the site and he/she does not bring such differences to the attention of the landscape architect.
14. All irrigation equipment not detailed or specified shall be installed per the manufacturer's recommendations and specifications.
15. All drip tubing shall be installed 3" below grade. Emitters to be located 3" to 6" from the trunk of shrubs and equipped with a bug guard and galvanized tie-down stake.
16. Weather sensor/automatic rain shutoff shall be installed on an exposed wall or soffit adjacent to the controller location per manufacturer's specifications. It must be placed to receive unimpeded rain and free from vandalism and must meet manufacturer's specifications for wireless connectivity to the controller.
17. An irrigation audit shall be performed and proof provided to the governing jurisdiction before an occupancy permit can be issued. It is the responsibility of the contractor to schedule and pay for the audit. The audit shall be conducted by a certified auditor. The contractor shall be responsible for making revisions to the irrigation in order to pass the audit. If pop-up spray heads are specified for shrub areas, we recommend that the auditor audit the shrub spray prior to planting.

Sleeving Notes

1. All mainline piping and control wires under paving shall be installed in separate sleeves. Sleeves to be installed at the size as indicated on the plans. If not specified, piping shall be installed in sleeves that are twice the diameter of the pipe.
2. The sleeves shown on this plan are based on mainline and lateral line routing as anticipated by the landscape architect. Irrigation contractor shall verify that sleeve locations and quantities are sufficient based on actual routing prior to installation.
3. All irrigation wires under pavement shall be sleeved in separate Schedule 40 PVC gray electrical conduits. If the controller is located inside a building, it is the irrigation contractor's responsibility to coordinate with the general contractor to ensure that any necessary conduit is installed prior to the construction of the building foundation.
4. One extra (empty) sleeve shall be provided at all driveway and street crossings in the event of sleeve failure. Extra sleeve shall match the size of the largest sleeve in the grouping.
5. Sleeving sizes and quantities shown are the minimum sizes required. Contractor may install larger sleeves at their discretion.
6. For ease of irrigation system installation, it is highly recommended that all piping that occurs inside of the sleeves be installed concurrently with the sleeves.

Winterization

The irrigation system shall be installed with a fitting that allows the landscape maintenance company to attach an air line to blow the water out of the lines prior to winter. The contractor shall coordinate with county maintenance for the location and style of fitting.

Irrigation Sleeve Legend

1	(2) 3" Sleeves
2	(1) 3" Sleeve + (2) 2" Sleeves
3	(2) 2" Sleeves
4	(1) 2" Sleeve

Water Efficient Landscape Ordinance (WELO)

Planting and Irrigation have been designed to be compliant with the Water Efficient Landscape Ordinance. The contractor shall not make substitutions of irrigation product or placement of product or plant species and cultivars without written consent of the Landscape Architect. The contractor shall be responsible for making all modifications to ensure the requirements of the Water Efficient Landscape Ordinance are met if any changes are made. Water use calculations as described on these plans must be met. The signature on this plan concurs that "I have complied with the criteria of the Water Efficient Landscape Ordinance and applied them accordingly for the efficient use of water in the irrigation and planting design plan."

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MONO COUNTY NEW JAIL

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MARK	DATE	DESCRIPTION

NORTH
Scale: 1" = 20'-0"
0' 10' 20' 40'

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

IRRIGATION PLAN

SHEET

L-301

V1

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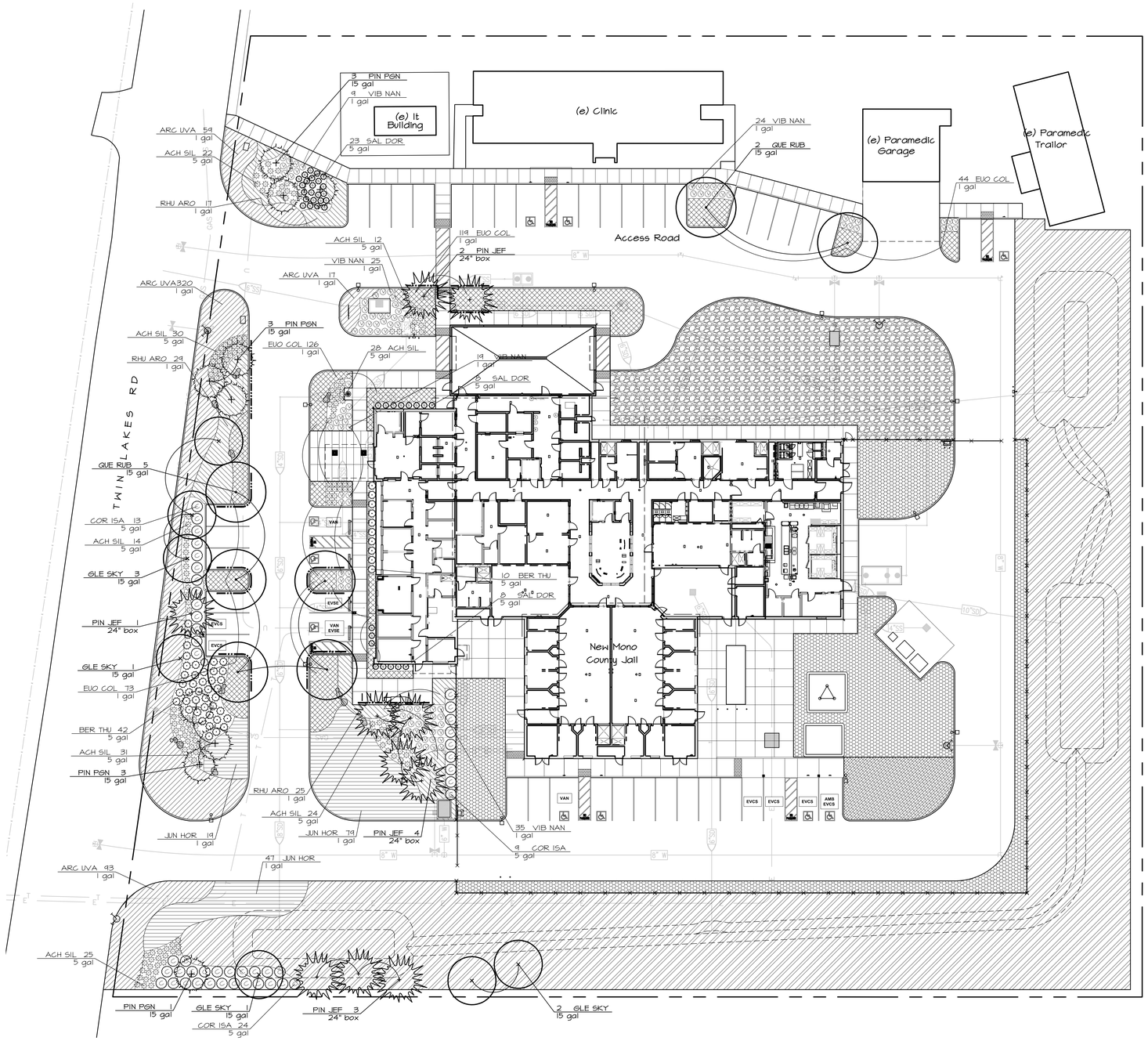

General Planting Notes

1. The contractor shall examine the conditions of the site prior to commencement of work. Any conditions that differ from what is shown on the plans that will affect the installation process shall be brought to the attention of the Owner or Land. Arch. prior to work. Commencement of work implies acceptance of the conditions of the site.
2. The contractor shall verify all plant quantities prior to installation. Plant quantities are listed for the convenience of the contractor, number of symbols and groundcover spacing shall have priority over quantity given.
3. The contractor shall be responsible for the purchasing of all material to meet the specifications of the plans including plants, soil, fertilizer, stakes, and sod. The contractor shall also be responsible for the protection of these materials until the project has been completely turned over to the owner.
4. All plant material shall be subject to approval or rejection by the Landscape Architect or Owner's Representative prior to installation. Installed and then rejected material shall be replaced by the contractor at his/her expense.
5. The contractor shall include in the bid for a continued maintenance period of sixty (60) days after completion and acceptance of the project by the Owner or Owner's Rep.
6. Trees to be planted a min. of 3'-0" from edge of paving or walls (unless otherwise stated on plan). All trees in a formal group or in a row shall be matching in size and shape.
7. All trees provided in the Planting Schedule/Legend are to be installed as single "Standard Form" trees unless specifically otherwise noted in the Planting Schedule/Legend. "Multi-Trunk" and "Low-Branching" trees delivered to the site will not be accepted unless specifically noted to be installed as such.
8. The following soil amendments specified are for bidding purposes only. The Landscape Contractor shall provide for a Soil Agronomy Report from an approved soils laboratory and/or any additional specifications provided by the Land. Arch. prior to installation of the plant material. The following amendments shall be incorporated into all planting pits and broadcast into soil to depth of 12" by means of a rototiller or equal per 1000 square feet.
   4 cuds nitrogen stabilized organic amendment derived from redwood sawdust, fir sawdust or cedar sawdust.
   15 lbs. soil sulfur
   15 lbs. 15-15-15 fertilizer
9. All soil preparation shall be installed per the soil agronomy report to be provided and paid for by the Landscape Contractor. The report is to be immediately forwarded to the Land. Arch. upon completion.
10. A nitrogen stabilized commercial-grade mulch with maximum 3/4" dia. chip size shall be uniformly broadcast over all shrub areas (not turf) to a depth as specified on the Planting Legend.
11. The planting pits for trees shall be excavated per the detail on the Landscape Details sheet. The backfill mix for use in all tree and shrub pits shall consist of the following:
    6 parts 'on-site' soil
    4 parts organic amendment (above)
    1 lb./yd. of mix 12-12-12 commercial fertilizer
    2 lbs./cu. yd. of mix Iron Sulfate
    10 lbs./cu. yd. of mix Agricultural Gypsum
12. Fertilizer tablets shall be BEST, 21 gram fertilizer tablets (20-10-5) placed in all planting pits in quantities as follows:

1 gallon	1 tablet
5 gallon	3 tablets
15 gallon	9 tablets
24"-Box	11 tablets
36"-Box	15 tablets

13. Thirty (30) days after installation all landscape shall be fertilized with 16-6-8 Fertilizer applied at the rate of 6 lbs./1000 sf. Fertilizer application shall be continued thereafter at bi-monthly intervals.
14. For weed control prior to planting, the Landscape Contractor shall thoroughly irrigate the site to promote germination of weed seeds that may be in the soil. After germination has taken place spray the site with Round-Up (or equal) in the amount, and let sit for the time specified by the manufacturer. Reapply Round-Up if needed. After all green weeds have been eradicated, apply Ronstar-G (or equal) Pre-Emergent weed control in the amounts specified by the manufacturer.
15. All plant material to be nursery grown in similar climate. All plant material shall be vigorous and of normal habit of growth and shall be free of girdling roots, sun scald, abrasions, disease, insects, insect eggs and larvae. Plants shall equal or exceed the standards as outlined by the American Standards for Nursery Stock and to applicable California Agriculture Code.

Tree Root Barriers

All trees denoted with the root barrier symbol and/or within five (5) feet of hardscape are to have DeepRoot Model #UB 18-2 root barriers installed along the inside edge of the adjacent sidewalk or curb. Length of linear root barrier shall be 16 linear feet (8 panels) and shall be centered on tree.

Root Solutions RS-18 may be used as an alternate. Use the same quantities per tree sizes as listed above. 1(800)554-0914

See detail G, Sheet T.L-502.

PLANT SCHEDULE

	BOTANICAL NAME	COMMON NAME	CONT		QTY	Water Use
TREES						
GLE SKY	Gleditsia triacanthos inermis 'Skyline'	Skyline Honey Locust	15 gal		7	Low
PIN JEF	Pinus jeffreyi	Jeffrey Pine	24" box		10	Low
PIN PGN	Pinus pungens	Table Mountain Pine	15 gal		10	Low
QUE RUB	Quercus rubra	Red Oak	15 gal		7	*Medium
SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE		QTY	Water Use
ACH SIL	Achnatherum calamagrostis	Silver Spike Grass	5 gal		186	Low
BER THU	Berberis thunbergii	Japanese Greenleaf Barberry	5 gal		52	*Medium
COR ISA	Cornus sericea 'Isanti'	Isanti Red Twig Dogwood	5 gal		46	*Medium
SAL DOR	Salvia dorrii	Desert Sage	5 gal		39	*Medium
VIB NAN	Viburnum opulus 'Nanum'	Dwarf European Cranberrybush	1 gal		113	*Medium
GROUND COVERS	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY	Water Use
ARC UVA	Arctostaphylos uva-ursi	Kinnikinnick	1 gal	36" o.c.	484	*Medium
EUO COL	Euonymus fortunei 'Colorata'	Purple-leaf Wintercreeper	1 gal	36" o.c.	362	*Medium
JUN HOR	Juniperus horizontalis	Creeping Juniper	1 gal	54" o.c.	145	Low
RHU ARO	Rhus aromatica	Fragrant Sumac	1 gal	60" o.c.	71	Low
HYDROSEED	BOTANICAL NAME	COMMON NAME	CONT	SPACING	QTY	
HYD WIL	Hydroseed Non-Irrigated	Grasses/Wildflowers	Seed Mix		27,641 sf	

Non-Living Groundcover

All shrub and groundcover areas shall be top-dressed with a 3" layer of mulch derived from recycled wood chips or arbor chips from tree trimming. Mulch shall be 2" minus in length and not great than 3/8" in thickness, and shall be dark brown in color. Contractor shall provide sample for approval prior to installation. Shredded redwood or cedar bark ("Gorilla-Hair") is not acceptable.

Aggregate

4" layer of 1/2"-3/4" crushed decorative aggregate. Contractor to submit sample to Landscape Architect for approval prior to installation. See detail F, Sheet L-502.

Aggregate edging to be Dura-Edge 3/16" x 4" brown steel edging by JD Russell Co., with stakes per manufacturer. See Detail J, Sheet L-502

Boulders

Varied size (12"-48") boulders placed in loose random groups to appear as natural rock outcroppings. Boulders to be approved by Landscape Architect prior to installation. Install per Detail G, Sheet L-502.

D.G.

3" layer of tan decomposed granite (non-stabilized). Contractor to submit sample to Landscape Architect for approval prior to installation. See Detail H, Sheet L-502

D.G. edging to be Dura-Edge 3/16" x 4" brown steel edging by JD Russell Co., with stakes per manufacturer. Detail J, Sheet L-502

Stabilized D.G.

3" layer of tan decomposed granite with integrally-mixed stabilizer/binder (by Stabilizer Solutions or approved equal). Contractor to submit sample to Landscape Architect for approval prior to installation. See Detail I, Sheet L-502

D.G. edging to be Dura-Edge 3/16" x 4" brown steel edging by JD Russell Co., with stakes per manufacturer. Detail J, Sheet L-502

* - Plants denoted with the asterisk are understood to be native/adapted species to specific conditions of Mono County. Water use listing is representative of WUCOLS water use rating. However, irrigation water use (as part of the water use calculations on sheet L-401) for the plants that are native or adapted is calculated as low water using due to the minimal supplemental irrigation required to these plants. Though many plants are listed as medium water using plants, the natural conditions of the site provides these species with most (if not all) of the their required water.

Planting Detail References

For Broadleaf Trees, refer to Detail A, Sheet L-501
For Conifer Trees, refer to Detail B, Sheet L-501
For Shrubs, refer to Detail C, Sheet L-501
For Groundcovers, refer to Detail D, Sheet L-501 for layout and Detail G, Sheet L-501 for installation

Water Efficient Landscape Ordinance (WELO)

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PLANTING PLAN

SHEET

L-401

V1

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GOVMOTUS No:22-N-3854-CP-DR

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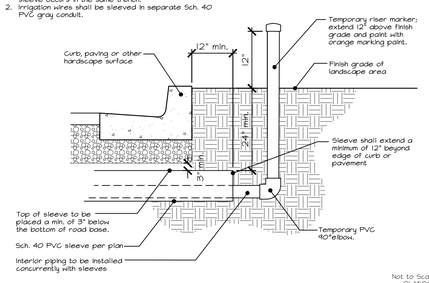
Notes:
1. Install sleeves side-by-side when more than one sleeve occurs in the same trench.
2. Irrigation wires shall be sleeved in separate Sch. 40 PVC gray conduit.



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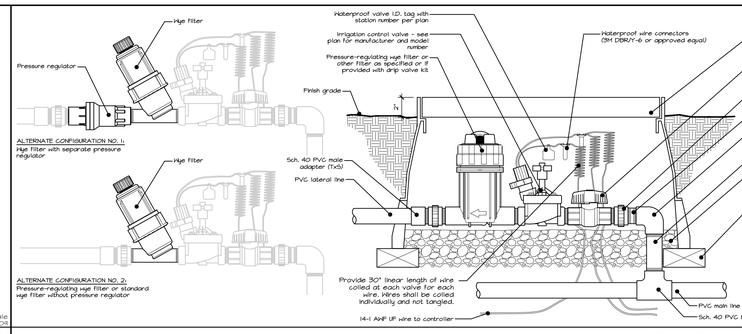
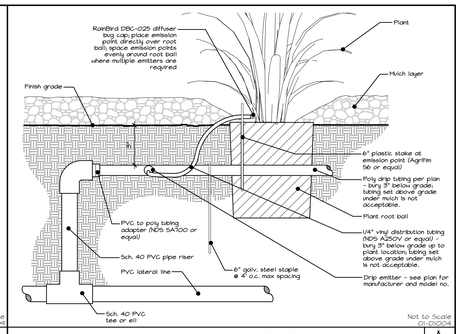
Irrigation Sleeve | N



Notes:
1. All wire shall be installed per local codes.
2. One valve per valve box only - no exceptions.
3. Valve boxes to be located in shrub areas (not turf, d.g. or cobble areas) wherever possible and grouped together.
4. Configuration shall be determined by manufacturer and model of equipment.

Not to Scale
01-D0004

Remote Control Drip Valve | F



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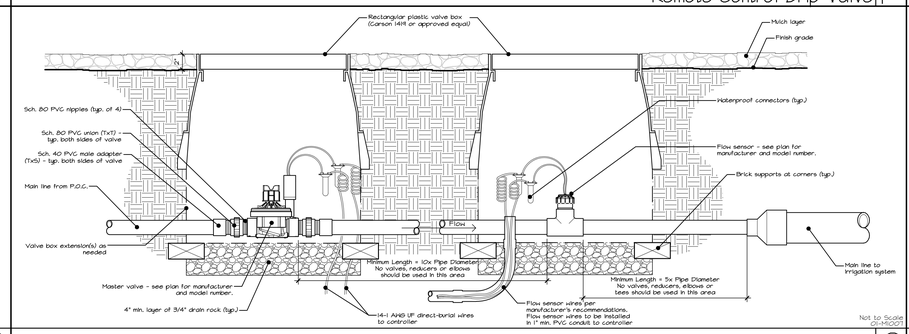
Drip Tubing and Emitter Connections | A

No Detail | O



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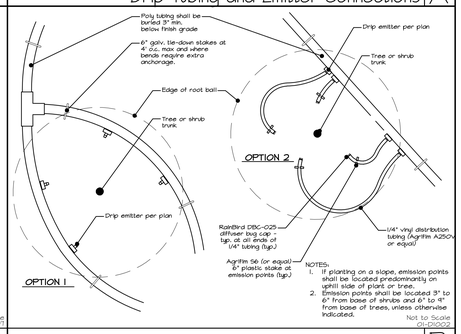
Master Valve & Flow Sensor | G

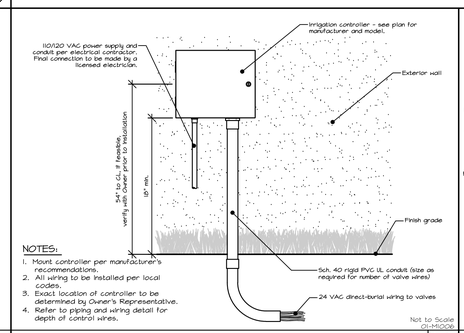


NOTES:
1. If planting on a slope, emission points shall be located predominantly on uphill side of plant or tree.
2. Emission points shall be located 3" to 6" from base of shrubs and 6" to 9" from base of trees, unless otherwise indicated.

Not to Scale
01-D0002

Drip Emitter Placement | B

No Detail | P

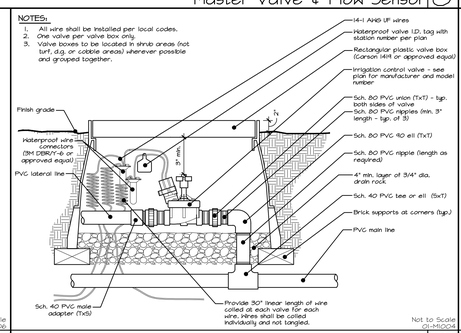


NOTES:
1. Mount controller per manufacturer's recommendations.
2. All wiring to be installed per local codes.
3. Exact location of controller to be determined by Owner's Representative.
4. Refer to piping and wiring detail for depth of control wires.

Not to Scale
01-M0006

Wall-Mount Controller (Exterior) | K

NOTES:
1. All wire shall be installed per local codes.
2. One valve per valve box only.
3. Valve boxes to be located in shrub areas (not turf, d.g. or cobble areas) wherever possible and grouped together.



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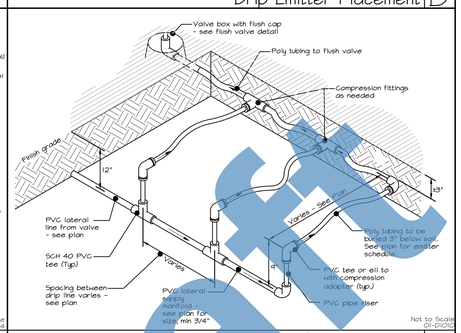
01-M0008

Irrigation Control Valve | H



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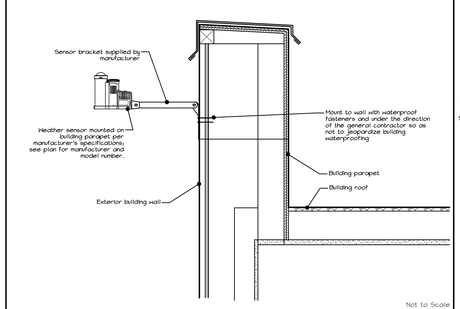
Drip Tubing Schematic | C

No Detail | Q



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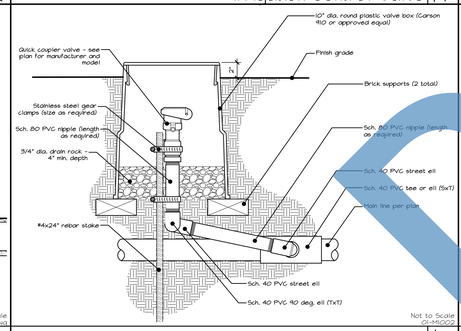
Weather Sensor Mounting on Building Parapet | L



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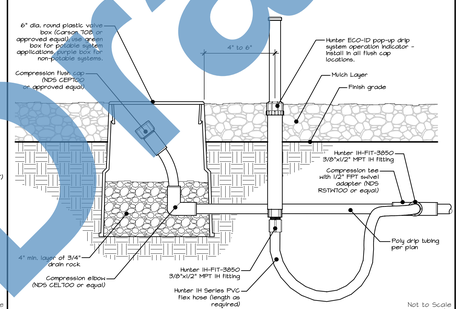
01-M0002

Quick Coupler Valve | I



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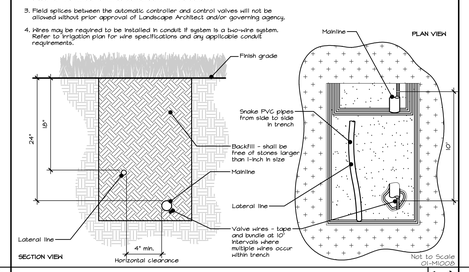
01-D0010a

Drip Tube Flush Cap and Pop-Up Indicator | D

NOTES:
1. All piping shall be joined in a manner recommended by the manufacturer and in accordance with industry standard practices.
2. Valve wiring shall occupy the same trench and shall be installed along the same route as the mainline wherever possible. Any wiring not in the same trench as mainline shall be installed in UL Schedule 40 PVC (gray conduit), appropriately sized for the number of wires contained within the conduit.
3. Field splices between the automatic controller and control valves will not be allowed without prior approval of Landscape Architect and/or governing agency.
4. Wires may be required to be installed in conduit if system is a two-wire system. Refer to irrigation plan for wire specifications and any applicable conduit requirements.



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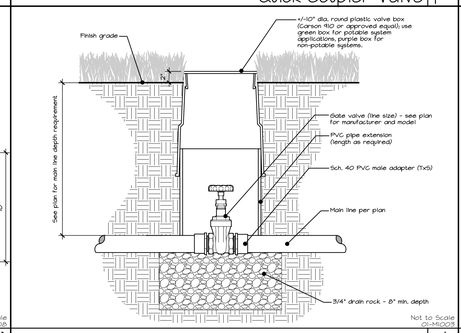
Piping and Wiring | M



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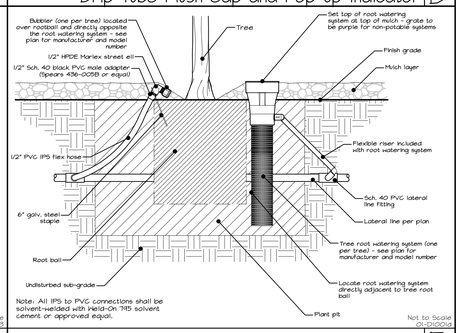
Gate valve (3" and smaller) | J



Note: All IPS to PVC connections shall be solvent-welded with Weld-On 711 solvent cement or approved equal.

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01-D0004

Root Watering System with Supplemental Bubbler | E

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SEPTEMBER 11, 2023

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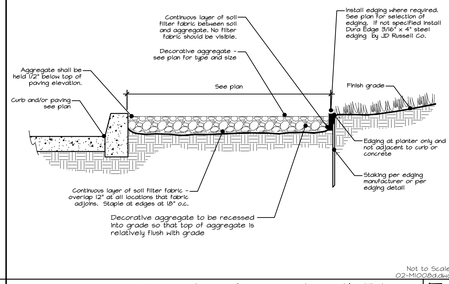

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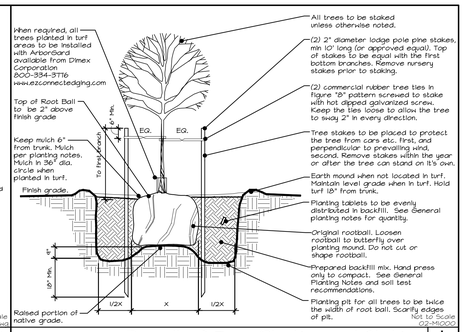
Decorative Aggregate with Edging | F



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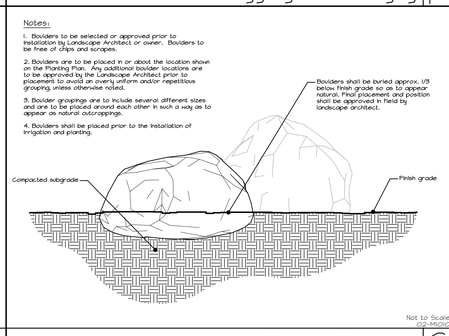
Broadleaf Tree Planting and Staking | A



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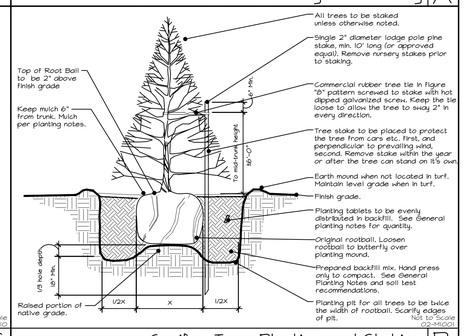
Boulder Placement | G



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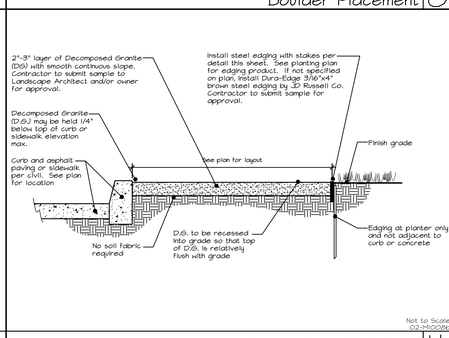
Conifer Tree Planting and Staking | B



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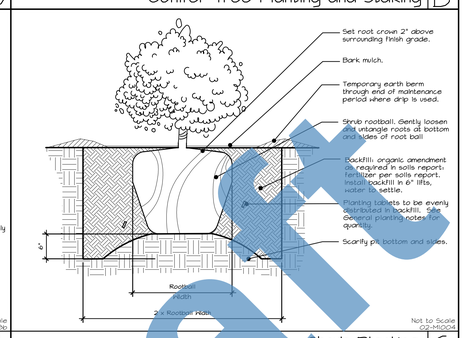
Decomposed Granite with Edging | H



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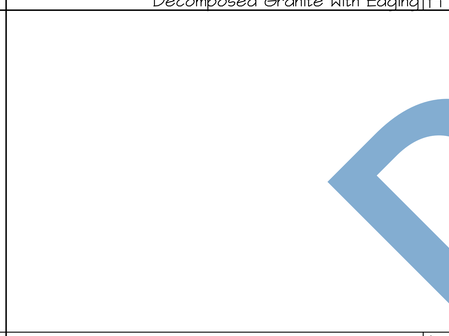
Shrub Planting | C



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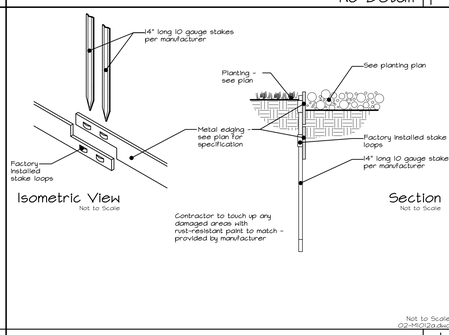
Groundcover Planting with Triangular Spacing | D



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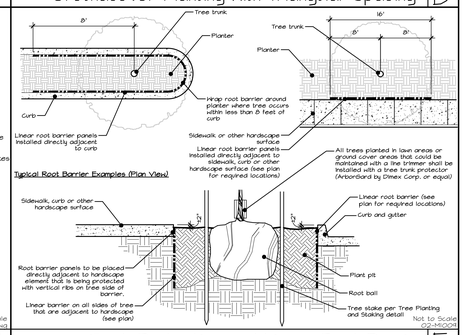
Metal Edging | J



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Trunk Protection and Linear Root Barrier | E

No Detail | P

No Detail | K

No Detail | Q

No Detail | L

No Detail | R

No Detail | M

No Detail | S

No Detail | N

No Detail | T

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Water Efficient Landscape Ordinance (WELO) Notes:

1. These plans have been prepared to be in compliance with the State-mandated Water Efficient Landscape Ordinance (WELO), which went into effect on December 1, 2015. The following notes reference the requirements of the ordinance and the responsibility of the contractor to install the landscape per the plans, details, and notes; provide the required documentation to the local agency; and provide follow-up correction as required to meet the water efficiency requirements.

2. The landscape contractor shall coordinate with the local jurisdiction to determine who will review and receive the WELO documentation that is required to be provided by the contractor.

Landscape Documentation Package

1. Project Information and signatures - The signature of the landscape architect on these landscape plans is applicable to the statement - "I agree to the best of my ability to comply with the requirements of the water efficient landscape ordinance and submit a complete Landscape Document Package".
2. Water Efficient Landscape Worksheet - See MAWA and ETWU, as well as hydrozone information table on this sheet.
3. Soil management report - See Notes requirements as described below.
4. Landscape Design Plan - See Planting Plans and Details contained within this set of documents.
5. Irrigation Design Plan - See Irrigation Plans and Details contained within this set of documents.
6. Grading Design Plan - To be provided by the civil engineer - See civil engineer's plans.

Soil Management Report

1. After mass grading the contractor shall provide for a soil analysis that shall comply with the requirements provided below. The analysis report is to be forwarded to the landscape architect, owner, and governing jurisdiction.
2. Soil samples shall be collected in accordance with laboratory protocol including adequate sampling depth.
3. At least one sample shall be provided for each 20,000 sf of landscape unless otherwise noted by the landscape architect. Samples shall be taken from different areas of the site as directed by the landscape architect. For multiple landscape installations (i.e. production home developments) a soil sampling rate of 1 in 7 lots or approximately 15%. Large landscape projects shall sample at a rate equivalent to 1 in 7 lots.
4. The Soil Analysis shall include the following:
   - Soil texture
   - Infiltration Rate (determined by lab test or soil texture infiltration rate table).
   - pH
   - Total soluble salts
   - Sodium
   - Percent organic mater
   - Recommendations for soil amendments, fertilizer, etc. for the type of landscape planting proposed.
5. Soil Analysis shall be conducted by an approved soil testing lab. The following are acceptable (but not required) labs:
   Sunland Analytical, 11414 Sunrise Gold Circle, Suite 10, Rancho Cordova, CA 95742, (916)852-8557, www.sunland-analytical.com.
   Soil and Plant Lab, 1101 S. Winchester Blvd., Suite G-173, San Jose, CA 95128, (408)727-0350, www.soilandplantlaboratory.com.
   Soil and Plant Lab, 4741 East Hunter Ave., Suite A, Anaheim, CA 92807, (714)282-8777, www.soilandplantlaboratory.com.
6. The recommendations of the soil analysis are to be implemented in the landscape soil preparation. The contractor shall provide documentation, prior to planting, verifying that recommendations have been implemented to the landscape architect and the governing jurisdiction.

Landscape Design (Planting)

1. The landscape has been designed and plants selected to be compliant with the requirements of the WELO. The contractor shall not make changes without written approval by the landscape architect. If the contractor deviates from the plan and it is not acceptable to the landscape architect, the contractor will be required to make changes at his/her expense to bring the landscape into compliance.
2. Plants have been placed in 'hydrozones' of similar water use requirements. The extent of the hydrozones are delineated by the groups of irrigation circuits as listed in the Hydrozone Table, included with these plans.
3. Turf is not allowed on slopes greater than 25% (4:1).
4. Mulch is required in all planting area except for turf, creeping or rooting groundcovers, direct seeding applications, cobble areas, or other areas specifically noted on the plans. The mulch shall be a minimum of 3", but the depth as listed in the planting legend shall take priority.
5. Stabilizing mulches shall be used on all slopes exceeding 4:1. See plan or coordinate with landscape architect.
6. Soil amendments shall be incorporated per the soil report. Compost must be applied at a rate of 4 yards per 1,000 square feet of permeable area. Compacted soils must be transformed to a friable condition.
7. The signature on the landscape plans is applicable to the statement - "I have complied with the criteria of the ordinance and applied them for the efficient use of water in the landscape design plan."

Irrigation Design

1. The irrigation water service shall be on a separate meter or submeter than the domestic service. this is required for residential landscapes over 5,000 square feet and non-residential landscapes over 1,000 square feet.
2. The irrigation controller (clock) shall be a 'smart' controller using evapotranspiration or soil moisture sensor data to automatically adjust run times based on landscape area water needs.
3. The irrigation system has been designed for each emission device to operate within the manufacturer's recommended pressure range for optimal performance. If the water pressure at the service connection is different than what is shown on the plans the contractor shall notify the landscape architect prior to installation of the irrigation system. Contractor shall check available water pressure before any irrigation installation. Pressure regulation is required to ensure correct and efficient operation.
4. Pressure regulators or booster pumps shall be installed if needed to modify available pressure for the optimal performance of the irrigation emission devices. All emission devices must meet the American National Standards Institute Standard. See specifications on the plans and refer to note #3 above.
5. A rain sensor shall be installed and tied to the controller - See plan for selection.
6. Gate valve(s) shall be installed directly downstream of the service connection(s).
7. An approved backflow preventer shall be installed at the irrigation service connection. See plan.
8. Check valves shall be installed in all heads at the low points of a circuit where water within the piping may drain out of the head when the system is done operating - See plan.
9. Flow sensors shall be installed to detect and report high flow conditions for landscape areas greater than 5,000 square feet.
10. Master Valves shall be installed to prevent water waste in the event of breakage or vandalism to the irrigation system, except where sprinklers can be individually controlled.
11. The irrigation circuits have been designed to correspond to the planting hydrozones. Changes to the irrigation layout and types of emission devices are not to be made without the written consent of the landscape architect.
12. The overall irrigation system has been designed to be a minimum of 75% efficient. Total water demand of established landscape has been designed to use less water than the Maximum Applied Water Allowance (MAWA). See Irrigation Schedule and Irrigation Water Audit Notes.
13. The irrigation system has been designed so that each circuit has matched precipitation rates within the circuit and high distribution uniformity. The contractor shall not substitute without written consent of the landscape architect.
14. Swing joints shall be installed on all pop-up heads per the plans and details.
15. Areas less than 10' in width have been irrigated with subsurface, drip, or low volume irrigation. If construction site modifications reduce spray irrigated planter areas less than 10' contact the landscape architect.
16. Overhead spray irrigation heads and nozzles are not allowed within 24" of non-permeable paving. This requirement does not apply to irrigation that is adjacent to permeable paving or non-permeable paving that drains into landscape before entering the storm drain system.
17. Sloped planting areas greater than 25% (4:1) have been designed with irrigation whose precipitation rate does not exceed .75"/hour, or another means has been employed and described on the plans.
18. Trees may be designed with a separate deep root bubbler system - See the plans.
19. The signature on the irrigation plans is applicable to the statement - "I have complied with the criteria of the ordinance and applied them accordingly for the efficient use of water in the irrigation design plan."

Grading Design

1. See the grading and drainage plan as prepared by the civil engineer. The landscape contractor shall maintain the drainage patterns as specified in the grading plans.
2. The site has been graded so that irrigation and normal run-off remains within the property lines, unless otherwise noted on the grading plans.
3. The landscape areas may include bioswales or filtration swales. The landscape contractor shall install these per the requirements of the civil engineer's plans and details with the planting per these plans. Any modifications must be approved in writing by the civil engineer and the landscape architect.

Irrigation Schedule

1. See the irrigation base schedule as included with the irrigation plans and notes. This is a guide - The landscape contractor may need to make modifications based on actual site and landscape conditions. Revised schedule shall be submitted with the Certificate of Completion.
2. Overhead irrigation shall be scheduled between 8:00PM and 10:00AM unless otherwise noted on the plans or more strict watering hours are required by the local jurisdiction.
3. The irrigation run times, length of run, and frequency of run times may need to be adjusted based on infiltration rate of the soil, slope, etc. to avoid run-off.
4. The specific parameters of the site conditions are to be input into the 'smart' controller.

Irrigation Audit

1. All irrigation audits shall be conducted by a certified landscape irrigation auditor or local agency landscape irrigation auditor.
2. The irrigation system shall be audited after it has been installed and 'fine-tuned'. The audit report is to be included with the Certificate of Completion and shall include, but not be limited to:
   - System test for distribution uniformity.
   - Recommendations for any adjustments that may be needed.
   - Preparation of an irrigation schedule.
3. The contractor shall make the adjustments as recommended in the irrigation audit.

Certificate of Completion

1. The contractor shall provide to the governing jurisdiction and the landscape architect a Certificate of Completion that at a minimum includes the following:
   - Date of completion and date of the Certificate.
   - Project Name and Address (or specific location).
   - Project Applicant name, telephone number, and mailing address.
   - Property owner name, telephone number, and mailing address.
2. The landscape contractor shall sign a statement that says the landscape and irrigation has been installed per the approved Landscape Document Package (plans, details, notes, calculations as contained within this plan set.
3. If there have been modifications to the layout and/or design of the landscape and irrigation, the contractor shall include with the Certificate of Completion a set of as-built plans or record drawings that reflect the modifications. The modified landscape and irrigation must remain in compliance with the WELO.
4. The Certificate of Completion shall include the initial irrigation audit that shows the irrigation is in compliance with the irrigation efficiency requirements of WELO (see audit information within this set of notes). The soil analysis report and recommendations and verification that the recommendations have been implemented shall also be submitted, if not included with the Landscape Documentation Package.

Hydrozone Table and ETWU

Reference ETo for Bridgeport **42.8**

ESTIMATED TOTAL WATER USE (ETWU)

Ornamental Landscape

Hydro-zone No.	Zone(s)	Hydrozone Description	Water Use Classification	Plant Factor	Irrigation Method	Hydrozone Area (Square Feet)	Percentage of Landscape	ETAF	ETAF x Area (Square Feet)	Irrigation Efficiency	ETWU
1	1-6	Shrubs / Groundcover	Low	0.3	Point-Source Drip	15,873.00	35.8%	0.37	5878.9	0.81	156002.20
2	7-10	Trees	Medium	0.4	Bubblers	850.00	1.9%	0.49	419.8	0.81	11138.57
3	N/A	Non-Irrigated Hydro-seed	N/A	0	N/A	27,641.00	62.3%	0	0.0	1.00	0.00
Totals						**44,364.00**	**100%**		6,298.6		167,140.763

Note: There is no SLA on this project

Estimated Total Water Use (ETWU) Summary

Total Ornamental Landscape Area	44,364.00	square feet
ETAF x Area	6,298.64	square feet
Irrigation Efficiency	0.81	efficient
Estimated Total Water Use (ETWU)	**167,140.76**	**gallons**
Maximum Applied Water Allowance (MAWA)	**529,759.40**	gallons

MAWA= (ETo)(0.62)(0.45*LA)

MAWA= 529,759.40

ETWU is less than MAWA, therefore the system meets the requirements of the Water Efficient Landscape Ordinance (WELO)

Establishment Period Irrigation Schedule

This schedule is based on providing irrigation to keep the soil extra moist as needed to promote root growth for plant establishment. Specific microclimate conditions and observed water needs, soil, slope, sun exposure, etc. will require adjustment of this schedule in the field to meet the unique needs of each circuit. Controller is to be connected to weather sensor and will adjust schedule (run times) automatically after the optimal schedule has been set.

Hydrozone	Circuits	Plant Material	Winter Nov, Dec., Jan, Feb, Mar, April	Spring/Fall May, Oct.	Summer June, July, Aug, Sept.
1	1-6	Shrubs-Drip Low Water Use	0 cycles/month of 0 minutes each	15 cycles/month of 30 minutes each	30 cycles/month of 25 minutes each
2	7-10	Trees-Root Bubblers	0 cycles/month of 0 minutes each	5 cycles/month of 10 minutes each	10 cycles/month of 10 minutes each

Established Landscape Irrigation Schedule

This schedule is based on typical seasonal weather conditions. Specific microclimate conditions and observed water needs, soil, slope, sun exposure, etc. will require adjustment of this schedule in the field to meet the unique needs of each circuit. Controller is to be connected to weather sensor and will adjust schedule (run times) automatically after the optimal schedule has been set.

Hydrozone	Circuits	Plant Material	Winter Nov, Dec., Jan, Feb, March	Spring/Fall April, May, Oct.	Summer June, July, Aug, Sept.
1	1-6	Shrubs-Drip Low Water Use	0 cycles/month of 0 minutes each	10 cycles/month of 30 minutes each	15 cycles/month of 40 minutes each
2	7-10	Trees-Root Bubblers	0 cycles/month of 0 minutes each	5 cycles/month of 7 minutes each	10 cycles/month of 7 minutes each

Irrigation Valve Table

Valve #	Hydro-zone	Size	Planting Type	Irrigation Type	Irrig. effic.	Precip. Rate	GPM	Pressure
1	1	1"	Shrubs	Drip	.81	--	12.31	20
2	1	1"	Shrubs	Drip	.81	--	12.74	20
3	1	1"	Shrubs	Drip	.81	--	9.93	20
4	1	1"	Shrubs	Drip	.81	--	13.63	20
5	1	1"	Shrubs	Drip	.81	--	11.95	20
6	1	1"	Shrubs	Drip	.81	--	8.68	20
7	2	1"	Trees	Bubblers	.81	--	7.0	20
8	2	1"	Trees	Bubblers	.81	--	3.50	20
9	2	1"	Trees	Bubblers	.81	--	3.0	20
10	2	1"	Trees	Bubblers	.81	--	3.50	20

Maintenance Schedule

A regular maintenance schedule shall be set up for this project to provide for the health and growth of the plant material as well as the efficiency of the irrigation system. The following is a minimum list of items that are to be addressed and maintained on a regular basis.

1. The irrigation system shall be maintained on a regular basis to ensure efficiency. All heads, valves, and other equipment shall be checked and adjusted to avoid overspray. All leaks are to be repaired as soon as possible. Replaced and repaired irrigation equipment is to be done with originally specified equipment or equipment with matching precipitation rates.

2. Irrigation emission devices are to be checked and repaired as needed to ensure minimal overspray, no leaks, and efficient operation. Drip emission devices (emitters) may need to be adjusted as the planting matures and the water needs change. Emitters are to be reviewed annually (at a minimum) with replacements provided for plants that may be getting too much or too little water.

3. The controller is to be checked and adjusted as needed to ensure there is minimal run-off while meeting the water requirements of the plants.

4. Turf is to be mowed on a regular basis to keep the height at an appropriate level. Turf areas are also to be dethatched and aerated approximately every two years.

5. Shrubs and trees are to be pruned to maintain form and remove dead or dying branches. Trees are to be pruned for form and safety and suckering is to be removed on a regular basis.

6. A regular program of weed and pest control is to be established and followed. Pesticides and herbicides are to be applied only when needed and by a state licensed professional.

7. Bark mulch is to be reapplied as needed to ensure full coverage to maintain water retention in the soil and deter weed growth - see plan for depth of mulch.

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Water Efficient Landscape Ordinance (WELO)

Planting and Irrigation have been designed to be compliant with the Water Efficient Landscape Ordinance. The contractor shall not make substitutions of irrigation product or placement of product or plant species and cultivars without written consent of the Landscape Architect. The contractor shall be responsible for making all modifications to ensure the requirements of the Water Efficient Landscape Ordinance are met if any changes are made. Water use calculations as described on these plans must be met. The signature on this plan concurs that "I have complied with the criteria of the Water Efficient Landscape Ordinance and applied them accordingly for the efficient use of water in the irrigation and planting design plan."

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WELO NOTES AND CALCULATIONS

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SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABBREVIATIONS NOT LISTED BELOW. SEE BUILDING CODE FOR REFERENCED DESIGN AND MATERIALS SYMBOLS, ACRONYMS & NOTATIONS.

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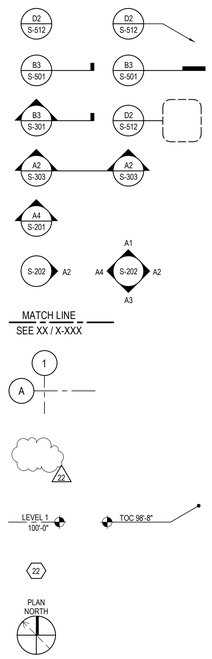
'	FOOT, FEET	L	ANGLE, LONG, LENGTH
"	INCH, INCHES	LL	LIVE LOAD
#	NUMBER, POUND	LLH	LONG LEG HORIZONTAL
A/E	ARCHITECT / ENGINEER	LLV	LONG LEG VERTICAL
AB	ANCHOR BOLT	LONG	LONGITUDINAL
ABV	ABOVE	LS	LAG SCREW
ADDL	ADDITIONAL	LWC	LIGHT WEIGHT CONCRETE
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MB	MACHINE BOLT
AFS	ABOVE FINISHED SLAB	MC	MISCELLANEOUS CHANNEL
ALT	ALTERNATE	MCJ	MASONRY CONTROL JOINT
ALUM	ALUMINUM	MDJ	MASONRY DOWEL JOINT
APPROX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECT	MEJ	MASONRY EXPANSION JOINT
ATR	ALL THREAD ROD	MFR	MANUFACTURER
BFF	BELOW FINISH FLOOR	MIN	MINIMUM
BKG	BACKING	MISC	MISCELLANEOUS
BLDG	BUILDING	MKJ	MASONRY KEY JOINT
BLKG	BLOCKING	MRJ	MASONRY RAKE JOINT
BLW	BELOW	NA	NOT APPLICABLE
BM	BEAM	NF	NEAR FACE
BMU	BRICK MASONRY UNIT	NIC	NOT IN CONTRACT
BN	BOUNDARY NAIL	NTS	NOT TO SCALE
BOS	BOTTOM OF STEEL	NWC	NORMAL WEIGHT CONCRETE
BOT	BOTTOM	O/	OVER
BTWN	BETWEEN	OC	ON CENTER
C	CAMBER, CHANNEL	OD	OUTSIDE DIAMETER
CB	CARRIAGE BOLT	OPH	OPPOSITE HAND
CBC	CALIFORNIA BUILDING CODE	OPNG	OPENING
CFSF	COLD-FORMED STEEL FRAMING	OPP	OPPOSITE
CG	CENTER OF GRAVITY	OR	OUTSIDE RADIUS
CJ	CONSTRUCTION JOINT	PAF	POWER ACTUATED FASTENER
CJP	COMPLETE JOINT PENETRATION	PCC	PRECAST CONCRETE
CL	CENTER LINE	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJP	PARTIAL JOINT PENETRATION
CMU	CONCRETE MASONRY UNIT	PL	PLATE, PROPERTY LINE
COL	COLUMN	PLF	POUNDS PER LINEAR FOOT
CONC	CONCRETE	PREFAB	PREFABRICATE
CONN	CONNECT, CONNECTION	PSF	POUNDS PER SQUARE FOOT
CONT	CONTINUE, CONTINUOUS	PSI	POUNDS PER SQUARE INCH
CRS	COLD ROLLED STEEL	PTW	PRESERVATIVE TREATED WOOD
CSK	COUNTER SUNK	QTY	QUANTITY
CTR	CENTER	R	RADIUS, RISER
D	PENNY (NAIL), DEEP, DEPTH	REBAR	REINFORCING STEEL BAR
DBL	DOUBLE	REINF	REINFORCE, REINFORCING
DCW	DEMAND CRITICAL WELD	REQ	REQUIRE, REQUIRED
DEG	DEGREE	RND	ROUND
DEMO	DEMOLITION	RO	ROUGH OPENING
DET	DETAIL	RS	ROUGH SAWN
DIA	DIAMETER	RWD	REDWOOD
DIAG	DIAGONAL	S	SPACED, SPACING, SPLICE, STEP
DIM	DIMENSION	SAD	SEE ARCHITECTURAL DRAWINGS
DJ	DOWEL JOINT	SCHED	SCHEDULE
DL	DEAD LOAD	SDST	SELF-DRILLING SELF-TAPPING
DO	DITTO, DO OVER	SE	STRUCTURAL ENGINEER
DOUG FIR	DOUGLAS FIR	SECT	SECTION
DWG	DRAWING	SFRS	SEISMIC FORCE RESISTING SYSTEM
DWL	DOWEL	SHTHG	SHEATHING
EA	EACH	SIM	SIMILAR
EE	EACH END	SJ	SHRINKAGE JOINT
EF	EACH FACE	SL	SNOW LOAD
EJ	EXPANSION JOINT	SP	STRUCTURAL PANEL
EL	ELEVATION	SPEC	SPECIFICATION
ELEC	ELECTRIC, ELECTRICAL	SQ	SQUARE
ELEV	ELEVATOR	SST	STAINLESS STEEL
EMBED	EMBEDMENT	STAG	STAGGERED
EN	EDGE NAIL	STD	STANDARD
EOS	EDGE OF SLAB	STIF	STIFFENER
EQ	EQUAL, EQUALLY	STIR	STIRRUP
ES	EACH SIDE	STL	STEEL
EW	EACH WAY	STRUCT	STRUCTURAL
EXT	EXTERIOR	SYMM	SYMMETRICAL
F/F	FACE TO FACE	T	TREAD, THICKNESS
FA	FRAMING ANGLE	T&B	TOP & BOTTOM
FB	FLAT BAR	T&G	TONGUE & GROOVE
FDTN	FOUNDATION	TFJH	TOP-FLANGE JOIST HANGER
FIN	FINISH	THK	THICKNESS
FLG	FLANGE	THRU	THROUGH
FLR	FLOOR	TJ	TOOL JOINT
FMJH	FACE-MOUNT JOIST HANGER	TN	TOE NAIL
FN	FIELD NAIL	TOB	TOP OF BEAM
FOC	FACE OF CONCRETE/CURB	TOC	TOP OF CURB/CONCRETE
FOF	FACE OF FINISH	TOF	TOP OF FRAMING/FOOTING/FLOOR
FOM	FACE OF MASONRY	TOJ	TOP OF JOIST
FOS	FACE OF STUD	TOM	TOP OF MASONRY
FOW	FACE OF WALL	TOP	TOP OF PARAPET
FRMG	FRAMING	TOS	TOP OF STEEL
FRTW	FIRE RETARDANT TREATED WOOD	TOSP	TOP OF STRUCTURAL PANEL
FS	FAR SIDE	TOT	TOP OF TRUSS
FT	FEET, FOOT	TOW	TOP OF WALL
FTG	FOOTING	TS	TUBE STEEL
FURG	FURRING	TYP	TYPICAL
GA	GAGE	UC	UNDERCUT
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE
GLB	GLUED LAMINATED BEAM	UON	UNLESS OTHERWISE NOTED
GR	GRADE	VERT	VERTICAL
H	HIGH, HEIGHT	VIF	VERIFY IN FIELD
HDR	HEADER	VR	VAPOR RETARDER
HGR	HANGER	W	WIDE, WIDTH, WELD, W-SHAPE
HLDN	HOLDDOWN	W/	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HS	HIGH STRENGTH	WF	WIDE FLANGE
HSB	HIGH STRENGTH BOLT	WHS	WELDED HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION	WL	WIND LOAD
HT	HEIGHT	WO	WHERE OCCURS
ICC	INTERNATIONAL CODE COUNCIL	WP	WORKING POINT
ID	INSIDE DIAMETER	WT	WEIGHT, W TEE-SHAPE
IJ	ISOLATION JOINT	WTS	WELDED THREADED STUD
INFO	INFORMATION	WWR	WELDED WIRE REINFORCEMENT
INT	INTERIOR	XS	EXTRA STRONG
		XXS	DOUBLE EXTRA STRONG

STRUCTURAL SYMBOLS LEGEND

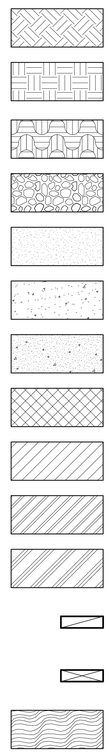
SN011000-004



- DETAIL INDICATOR - REFERENCE & DETAIL INDICATOR - ITEM
- DETAIL INDICATOR - SECTION & DETAIL INDICATOR - SECTION ITEM
- SECTION INDICATOR - PARTIAL BUILDING/WALL DETAIL INDICATOR - AREA
- SECTION INDICATOR - BUILDING
- ELEVATION INDICATOR - EXTERIOR
- ELEVATION INDICATOR - INTERIOR, SINGLE & MULTIPLE VIEW
- MATCH LINE INDICATOR
- REFERENCE GRID WITH REFERENCE GRID LINES
- REVISION INDICATOR & REVISION CLOUD
- ELEVATION INDICATOR - LEVEL & SPOT
- KEYNOTE INDICATOR
- PLAN NORTH & TRUE NORTH INDICATOR

MATERIAL SYMBOL LEGEND

S: 011000. N006A
170125. Q2



- EARTH
- EARTH, COMPACT FILL
- EARTH, ROCK
- GRAVEL, ROCK FILL
- SAND, MORTAR, GROUT
- CONCRETE, CAST IN PLACE
- CONCRETE, PRE-CAST OR TILT UP
- MASONRY, CLAY BRICK
- MASONRY, CONCRETE
- STEEL
- ALUMINUM
- WOOD BLOCKING OR SHIM
- WOOD FRAMING CONTINUOUS
- WOOD

STRUCTURAL GENERAL NOTES

S: 014100. N004A
190526. Q2

1. THE STRUCTURAL NOTES AND TYPICAL DETAILS, WHETHER SPECIFICALLY REFERENCED OR NOT, ARE GENERAL AND APPLY TO ALL CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN THE STRUCTURAL NOTES AND TYPICAL DETAILS AS REQUIRED TO CONFORM TO THE FINISHED PROJECT AS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONSTRUCTION DOCUMENTS. SEE OTHER CONSTRUCTION DOCUMENTS FOR COMPLETE PROJECT REQUIREMENTS.
2. REFERENCES TO CONSTRUCTION DOCUMENTS ARE TO THE ENFORCEMENT AGENCY APPROVED DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. SUPPLEMENTAL DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ADDENDA, REVISED DRAWINGS, FIELD INSTRUCTIONS AND MODIFICATIONS PRODUCED FOR THIS PROJECT, SHALL ALSO BE CONSIDERED A CONSTRUCTION DOCUMENT. ALL REQUIREMENTS OF THE INITIALLY APPROVED CONSTRUCTION DOCUMENTS SHALL APPLY TO ANY SUPPLEMENTAL DOCUMENTS.
3. WHERE THE CONSTRUCTION DOCUMENTS INDICATE TO NOTIFY THE STRUCTURAL ENGINEER, SUCH NOTIFICATION SHALL BE SUBMITTED IN WRITING WITH SUFFICIENT ALLOWANCE FOR A REASONABLE TIME PERIOD FOR REVIEW. DESIGN, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND WRITTEN RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. OBTAIN WRITTEN RESPONSE BEFORE PROCEEDING WITH THE AFFECTED WORK.
4. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS. DEVIATIONS SHALL NOT BE MADE TO THE REQUIREMENTS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS.
5. PORTIONS OF THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC ONLY. ITEMS INCLUDING, BUT NOT LIMITED TO, LOCATIONS, SIZES, QUANTITIES, ACCESSORIES AND CONNECTIONS ARE INDICATED IN A REPRESENTATIONAL MANNER AND MAY NOT BE COMPLETELY SHOWN. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
6. DIMENSIONS AND ELEVATIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. ELEVATIONS SHOWN ARE BASED ON A REFERENCE ELEVATION. COORDINATE REFERENCE ELEVATIONS WITH ACTUAL ELEVATIONS. COORDINATE WITH ALL OTHER CONSTRUCTION DOCUMENTS FOR DIMENSIONS AND ELEVATIONS NOT INDICATED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. DO NOT SCALE DRAWINGS.
7. CONSTRUCTION SHALL COMPLY WITH ALL BUILDING, HEALTH AND SAFETY STANDARDS, CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. NOTHING IN THE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE STANDARDS, CODES AND REGULATIONS.
8. REFERENCES TO STANDARDS, CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, ICC, IBC, CBC, ACI, ASTM, ASCE, ANSI, AWS, AISI, AITC AND AISC SHALL BE TO THE LATEST EDITION AS ADOPTED BY THE ENFORCEMENT AGENCY.
9. FEATURES OF CONSTRUCTION INDICATED ARE TYPICAL. WHERE FEATURES ARE NOT FULLY OR SPECIFICALLY INDICATED BY THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE AS INDICATED FOR IDENTICAL OR SIMILAR FEATURES ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. IF ANY CONDITIONS REQUIRE CONSTRUCTION DIFFERENT THAN THAT INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
10. STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY OTHER CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
11. THE CONSTRUCTION DOCUMENTS AND THE DESIGNS INCORPORATED THEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT.
12. STRUCTURAL ELEMENTS REPRESENTED IN THE CONSTRUCTION DOCUMENTS ARE INDICATED IN THEIR COMPLETED CONFIGURATION. THE CONSTRUCTION DOCUMENTS DO NOT INDICATE MEANS, METHODS OR SEQUENCES OF CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE ALL MEASURES NECESSARY AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY AND TO ASSURE THE CORRECT AND ACCURATE STRUCTURE GEOMETRY AND STABILITY DURING CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE FORMING, SHORING AND BRACING. MEASURES SHALL REMAIN IN PLACE UNTIL THE STRUCTURAL ELEMENTS AND ALL OTHER STRUCTURAL ELEMENTS USED TO SUPPORT THEM HAVE BEEN COMPLETED AND HAVE ATTAINED THEIR REQUIRED DESIGN STRENGTHS.
13. PROTECT ALL ELEMENTS, WHETHER CONCEALED OR NOT, INCLUDING, BUT NOT LIMITED TO, PROPERTIES, STRUCTURES, FINISHES, STREETS, LANDSCAPING AND UTILITIES ADJACENT TO OR ON THIS SITE DURING THE CONSTRUCTION OF THIS PROJECT. SHOULD DAMAGE OCCUR TO ANY ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTROL ITEMS SUCH AS, BUT NOT LIMITED TO, DUST, DIRT, WATER, FUMES, SMOKE, TRASH, NOISE AND VIBRATION CREATED AS A RESULT OF ANY OPERATIONS DURING CONSTRUCTION IN CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND REGULATIONS.
14. STRUCTURAL DESIGN LOADS, STRENGTHS, CAPACITIES AND CRITERIA INDICATED ON THE CONSTRUCTION DOCUMENTS ARE FOR THE COMPLETED STRUCTURE ONLY. THE USE OF ANY PART OR PARTS OF THE INCOMPLETE OR COMPLETED STRUCTURE FOR THE SUPPORT OF CONSTRUCTION ITEMS INCLUDING, BUT NOT LIMITED TO, OTHER PORTIONS OF THE STRUCTURE, PERSONNEL, MATERIALS AND EQUIPMENT IS LIMITED TO THE SAFE CAPACITY OF THE STRUCTURE AT THE TIME IT IS TO BE USED FOR SUCH SUPPORT. PROVIDE ALL MEASURES NECESSARY AS REQUIRED TO PREVENT OVERLOADING, EXCESSIVE MOVEMENT AND DAMAGE TO ANY PART OR PARTS OF THE STRUCTURE.
15. IF SUBSTITUTIONS ARE REQUESTED FOR STRUCTURAL ELEMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUBMIT DATA AND DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, COMPARATIVE QUALITY, SUITABILITY, PERFORMANCE, STRUCTURAL CAPACITY, ICC APPROVAL AND ENFORCEMENT AGENCY ACCEPTABILITY SUBSTANTIATING THE COMPLETE COMPLIANCE OF EACH PROPOSED SUBSTITUTION WITH THE CONSTRUCTION DOCUMENTS. ONLY ONE REQUEST FOR SUBSTITUTION WILL BE ALLOWED FOR EACH STRUCTURAL ELEMENT. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN SUBMITTALS ARE INCOMPLETE OR ACCEPTANCE WOULD REQUIRE REVISIONS TO THE CONSTRUCTION DOCUMENTS. PROVIDE OWNER REIMBURSEMENT FOR SERVICES REQUIRED TO OBTAIN ENFORCEMENT AGENCY APPROVAL OF SUBSTITUTIONS. IF A PROPOSED SUBSTITUTION SUBMITTAL IS NOT COMPLETE, NOT ACCEPTABLE TO THE STRUCTURAL ENGINEER, OR NOT APPROVED BY THE ENFORCEMENT AGENCY PROVIDE THE SPECIFIED ITEM AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE STRUCTURAL ENGINEER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE PROPOSED SUBSTITUTION VERSUS THE SPECIFIED ITEM. ACCEPTANCE OF A SUBSTITUTION SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
16. SCHEDULES, LEGENDS, ABBREVIATIONS, TYPICAL NOTES AND TYPICAL DETAILS ON THE STRUCTURAL CONSTRUCTION DOCUMENTS MAY REFERENCE STRUCTURAL ELEMENTS OR REQUIREMENTS NOT SPECIFICALLY INDICATED OR REQUIRED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
17. THE STRUCTURAL CONSTRUCTION DOCUMENTS ARE NOT COMPLETE AND READY FOR CONSTRUCTION UNTIL THEY ARE APPROVED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.

STRUCTURAL DESIGN CRITERIA

S: 014100. N003A
170125. Q2

BUILDING CODE: 2022 CBC

ENFORCEMENT AGENCY: OFFICE OF THE STATE FIRE MARSHAL

A. VERTICAL DESIGN CRITERIA (UNLESS OTHERWISE SHOWN OR NOTED)

FLOOR LIVE LOADS:
- FIRST FLOOR CORRIDORS — 100 PSF (REDUCIBLE)
- STAIRS & EXITS — 100 PSF (NON-REDUCIBLE)
- MECHANICAL AND ELECTRICAL EQUIPMENT AREA — 50 PSF (NON-REDUCIBLE)
- LIGHT STORAGE — 125 PSF (NON-REDUCIBLE)

ROOF LIVE LOADS:
- TYP ROOF AREA — 20 PSF (REDUCIBLE)
- TIER LID — 50 PSF (NON-REDUCIBLE)

PV ROOF LOAD (DEAD) — 10 PSF

GROUND SNOW LOAD: — 65 PSF (PER MONO COUNTY COMMUNITY DEVELOPMENT DEPARTMENT- BUILDING DIVISION)

B. LATERAL DESIGN CRITERIA

SEISMIC SITE CRITERIA: SS=1.20, S1 =0.39, SDS=0.81, SD1 =0.50, SITE CLASS: D

BUILDING CRITERIA:
SEISMIC:
- RISK CATEGORY= IV
- IMPORTANCE FACTOR, I=1.50
- SEISMIC DESIGN CATEGORY = D
- SEISMIC FORCE RESISTING SYSTEM: BEARING WALL SYSTEM - SPECIAL REINFORCED MASONRY SHEAR WALLS
- RESPONSE MODIFICATION FACTOR, R = 5
- DESIGN BASE SHEAR: V = 0.24W
- SEISMIC RESPONSE COEFFICIENT, Cs=0.24
- REDUNDANCY FACTOR, RHOE=1.3
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
- HORIZONTAL IRREGULARITIES: TYPE 1A (TORSIONAL), TYPE 1B (EXTREME TORSIONAL),TYPE 2 (REENTRANT CORNER), TYPE 3 (DIAPHRAGM DISCONTINUITY)
- VERTICAL IRREGULARITIES: NONE

BUILDING DISPLACEMENT (AMPLIFIED):

LEVEL	INTERSTORY DISPLACEMENT	TOTAL DISPLACEMENT
GROUND	0.00 IN	0.00 IN
ROOF	0.03 IN	0.03 IN

WIND:
ULTIMATE DESIGN WIND SPEED, V(ULT) = 110 MPH
NOMINAL DESIGN WIND SPEED, V(ASD) = 85 MPH
RISK CATEGORY = IV
WIND EXPOSURE = C
GCPI = +/- 0.18
COMPONENTS AND CLADDING WIND PRESSURES TO BE DETERMINED PER ASCE 7-16, MANUFACTURER OF DEFERRED SUMBITTAL ITEMS TO CONFIRM WIND LOADING REQUIREMENTS.
OVERHANG/CANOPY: -75.5 PSF (UPLIFT LOAD AT LRFD)
WALLS: 26.3 PSF / -35.3 PSF (LRFD)

SNOW:
FLAT-ROOF SNOW LOAD, Pf = 65.5 PSF
EXPOSURE: B
SNOW EXPOSURE FACTOR, Ce = 1.00
RISK CATEGORY = IV
IMPORTANCE FACTOR, Is = 1.20
THERMAL FACTOR, Ct = 1.0
SLOPE FACTOR, Cs = 1
DRIFT SURCHARGE LOAD, Pd = 41 PSF
WIDTH OF SNOW DRIFT, w = 7.3 FEET

C. SOIL DESIGN CRITERIA

SOIL INFO IS BASED ON GEOTECHNICAL REPORT BY:
CME / 2753
DATED: MARCH 2022
PROVIDE ALL SUB-GRADE PREPARATION AS REQUIRED PER GEOTECHNICAL REPORT

SPREAD FOUNDATIONS:
- ALLOWABLE BEARING PRESSURE (SUPPORTED BY STRUCTURAL FILL REMEDIATED FOR LIQUEFACTION):
  DL + LL = 3000 PSF
  DL + LL + LATERAL = 4000 PSF
- COEFFICIENT OF FRICTION = 0.45
- ALLOWABLE PASSIVE PRESSURE = 300 PCF
- NO REDUCTION IF FRICTIONAL RESISTANCE AND PASSIVE PRESSURE ARE COMBINED.

FROST DEPTH: EXTERIOR FOOTINGS AND PIERS SHALL BE BOTTOMED AT LEAST 2 FEET BELOW FINISHED GRADE. INTERIOR FOOTINGS AND PIERS SHALL BE BOTTOMED AT LEAST 18" BELOW FINISHED GRADE. INTERIOR FOOTINGS PROTECTED FROM FROST SHALL BE BOTTOMED AT LEAST 12" BELOW FINISHED GRADE.

PROJECT DIRECTORY

S: 011000. N005A
170125. Q2

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MONO COUNTY PUBLIC WORKS
P.O. BOX 457
BRIDGEPORT, CA 93517
CONTACT: PAUL ROTEN
PHONE: 760.709.0427
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CIVIL ENGINEER
NCE
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RENO, NV 89509
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PHONE: 775.329.4955
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STRUCTURAL ENGINEER
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KLA, INC.
151 N. NORLIN STREET
SONORA, CA 95370
CONTACT: TOM HOLLOWAY
PHONE: 209.532.2856
EMAIL: TOM@KLA-CA.COM

MECHANICAL/PLUMBING ENGINEER FIRE PROTECTION
CAPITAL ENGINEERING CONSULTANTS, INC.
11020 SUN CENTER DR, SUITE 100
RANCHO CORDOVA, CA 95670
CONTACT: KEVIN STILLMAN
PHONE: 916.851.3552
EMAIL: KSTILLMAN@CAPITAL-ENGINEERING.COM

ELECTRICAL ENGINEER
LP CONSULTING ENGINEERS
1209 PLEASANT GROVE BLVD.
ROSEVILLE, CA 95661
CONTACT: CIPRIANO PADURARU
PHONE: 916.721.2912
EMAIL: CPADURARU@LPENGINEERS.COM

SECURITY ELECTRONICS
LATTA TECH
1255 WEST 15TH STREET, SUITE 300
PLANO, TX 75075
CONTACT: IGOR ABADZIC
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ROSEVILLE, CA 95678
CONTACT: BRANDI BAKER
PHONE: 916.771.0778
EMAIL: BBAKER@LPENGINEERS.COM

FOOD SERVICE
THE MARSHALL ASSOCIATES
240 3RD STREET, SUITE 2-B
OAKLAND, CA 94607
CONTACT: STACEY JENNINGS
PHONE: 415.677.1200
EMAIL: STACEY@THEMARSHALLASSOCIATES.COM

TELECOM
LP CONSULTING ENGINEERS
1209 PLEASANT GROVE BLVD.
ROSEVILLE, CA 95678
CONTACT: MATT HARPER
PHONE: 916.771.0778
EMAIL: MHARPER@LPENGINEERS.COM

RADIO
CSI TELECOMMUNICATION, INC.
6 HAMILTON LANDING STE 170
NOVATO, CA 94949
CONTACT: CRAIG TRYGSTAD
PHONE: 530.746.2454
EMAIL: CTRYGSTAD@CSITELE.COM

STRUCTURAL SHEET INDEX

SN011000-001

SHEET NUMBER	SHEET NAME
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S-011	TYPICAL NOTES
S-012	TYPICAL NOTES
S-013	TYPICAL NOTES
S-014	STATEMENT OF SPECIAL INSPECTIONS
SB111	PLAN - FOUNDATION - LEVEL 1
S-111	PLAN - SLAB - LEVEL 1
S-121	PLAN - LID FRAMING - LEVEL 2
S-132	PLAN - ROOF FRAMING - LEVEL 2
S-201	3D VIEWS
S-202	3D VIEWS
S-311	SECTIONS - BUILDING
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S-314	SECTIONS - BUILDING
S-315	SECTIONS - BUILDING
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S-533	DETAILS - TYPICAL CONCRETE FOUNDATIONS AT MASONRY
S-534	DETAILS - CONCRETE FOUNDATIONS
S-541	DETAILS - TYPICAL MASONRY
S-542	DETAILS - TYPICAL MASONRY
S-543	DETAILS - TYPICAL MASONRY - INSULATED
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S-546	DETAILS - MASONRY
S-547	DETAILS - MASONRY
S-548	DETAILS - MASONRY
S-551	DETAILS - TYPICAL STRUCTURAL STEEL BEAMS
S-552	DETAILS - TYPICAL STRUCTURAL STEEL
S-553	DETAILS - TYPICAL STRUCTURAL STEEL LEDGERS AT MASONRY
S-571	DETAILS - TYPICAL STEEL DECKING
S-581	DETAILS - EQUIPMENT ANCHORAGE
S-591	DETAILS - TYPICAL COLD FORMED STEEL FRAMING
S-592	DETAILS - TYPICAL COLD FORMED STEEL FRAMING

SHEET COUNT: 37

FIRE / SMOKE PROTECTION OF STRUCTURE

S: 078000. N001A
190605. Q2

1. THE FIRE RESISTANCE RATING OF STRUCTURAL MEMBERS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH THE BUILDING CODE AND THE REQUIREMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS.
2. SEE THE NONSTRUCTURAL CONSTRUCTION DOCUMENTS FOR THE BUILDING CONSTRUCTION TYPE AND THE FIRE AND SMOKE PROTECTION MATERIALS, SYSTEMS OR ASSEMBLIES REQUIRED TO PROVIDE THE NECESSARY FIRE RESISTANCE RATING FOR STRUCTURAL BUILDING ELEMENTS.
3. FIRE RESISTANCE RATINGS SHALL BE MAINTAINED FOR OPENINGS OR PENETRATIONS THROUGH STRUCTURAL BUILDING ELEMENTS THAT ARE PART OF THE FIRE AND SMOKE PROTECTION SYSTEMS OR ASSEMBLIES.
4. FIREBLOCKING AND DRAFTSTOPPING SHALL BE PROVIDED AT STRUCTURAL FRAMING IN COMBUSTIBLE CONCEALED LOCATIONS IN ACCORDANCE WITH THE BUILDING CODE.
5. WHEN FIRE PROTECTION IS REQUIRED, THE FIRE PROTECTED PRIMARY STRUCTURAL FRAME SHALL INCLUDE ALL OF THE FOLLOWING STRUCTURAL MEMBERS:
   - THE COLUMNS
   - STRUCTURAL MEMBERS HAVING DIRECT CONNECTIONS TO THE COLUMNS, INCLUDING GIRDERS, BEAMS, TRUSSES AND SPANDRELS
   - MEMBERS OF THE FLOOR CONSTRUCTION AND ROOF CONSTRUCTION HAVING DIRECT CONNECTIONS TO THE COLUMNS
   - BRACING MEMBERS THAT ARE ESSENTIAL TO THE VERTICAL STABILITY OF THE PRIMARY STRUCTURAL FRAME UNDER GRAVITY LOADING WHETHER OR NOT THE BRACING MEMBER CARRIES GRAVITY LOADS
6. WHEN FIRE PROTECTION IS REQUIRED, THE FOLLOWING STRUCTURAL MEMBERS SHALL BE CONSIDERED SECONDARY MEMBERS AND NOT PART OF THE FIRE PROTECTED PRIMARY STRUCTURAL FRAME:
   - STRUCTURAL MEMBERS NOT HAVING DIRECT CONNECTIONS TO THE COLUMNS
   - MEMBERS OF THE FLOOR CONSTRUCTION AND ROOF CONSTRUCTION NOT HAVING DIRECT CONNECTIONS TO THE COLUMNS
   - BRACING MEMBERS OTHER THAN THOSE THAT ARE PART OF THE PRIMARY STRUCTURAL FRAME
7. FIRE PROTECTION CONSTRUCTION CLASSIFICATIONS USED FOR DETERMINING CONDITIONS OF RESTRAINT FOR FLOOR AND ROOF STRUCTURAL ASSEMBLIES AND FOR INDIVIDUAL BEAMS SHALL CONFORM TO ASTM E119. USE THE FOLLOWING FIRE PROTECTION CONSTRUCTION CLASSIFICATIONS, UNO:
   - UNRESTRAINED
     - WOOD FRAMING
     - COLD FORMED STEEL FRAMING
     - STEEL FRAMING SUPPORTED BY BEARING WALLS
     - CONCRETE FRAMING SUPPORTED BY BEARING WALLS
   - RESTRAINED
     - STEEL FRAMING
     - CONCRETE FRAMING

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CLIENT
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P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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STRUCTURAL SUBMITTALS

S- 013300 N002A
170125. Q2

1. SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, SHOP DRAWINGS, FABRICATION DRAWINGS, PLACEMENT DRAWINGS, CALCULATIONS, DESIGNS, TEST DATA, PRODUCT DATA, SAMPLES, CERTIFICATIONS AND REPORTS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
2. SUBMITTALS, AS A MINIMUM, SHALL CONSIST OF TWO (2) COPIES OF EACH SHEET.
3. SUBMITTALS SHALL NOT CONTAIN NOR CONSIST OF REPRODUCTIONS OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS CONTAINING REPRODUCTIONS OF ANY PORTION OF THE CONSTRUCTION DOCUMENTS ARE SUBJECT TO REJECTION.
4. EACH SUBMITTAL SHALL HAVE A COVER SHEET IDENTIFYING THE CONTENTS BY SPECIFICATION SECTION AND LISTING EACH ITEM AND SHEET NUMBER. EACH SUBMITTAL SHALL HAVE A UNIQUE IDENTIFICATION NUMBER.
5. PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, STAMP SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS THAT ARE DETERMINED TO BE INCOMPLETE, IN THE JUDGMENT OF THE STRUCTURAL ENGINEER, WILL BE RETURNED WITHOUT REVIEW SO THEY CAN BE COMPLETED. THE STRUCTURAL ENGINEER SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
6. PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, THE OWNER'S TESTING LABORATORY SHALL STAMP THE FOLLOWING MARKED SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS:
   - ■ CONCRETE MIX DESIGNS AND SUBSTANTIATING TEST DATA
   - ■ MASONRY GROUT MIX DESIGNS AND SUBSTANTIATING TEST DATA
   - ■ WELDING PROCEDURE SPECIFICATIONS
7. SUBMITTALS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO UTILIZATION, INSTALLATION, FABRICATION OR CONSTRUCTION OF ITEMS CONTAINED WITHIN THE SUBMITTALS.
8. SUBMITTALS SHALL BE DELIVERED TO THE STRUCTURAL ENGINEER TO ALLOW SUFFICIENT TIME, IN THE STRUCTURAL ENGINEER'S JUDGMENT, FOR A REASONABLE PERIOD FOR ADEQUATE REVIEW, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. ALLOW THE STRUCTURAL ENGINEER THE GREATER SUBMITTAL REVIEW PERIOD OF: TEN (10) WORKDAYS OR FIVE (5) WORK DAYS FOR EACH 100 SHEETS, OR PORTION THEREOF, FOR EACH SUBMITTAL. SUBMITTAL REVIEW PERIOD COMMENCES THE NEXT WORK DAY AFTER SUBMITTAL RECEIPT BY THE STRUCTURAL ENGINEER. CONCURRENT SUBMITTALS OF MULTIPLE PORTIONS OF THE SAME SUBMITTAL ITEM WILL BE REVIEWED IN THEIR ENTIRETY AS ONE SUBMITTAL SUBJECT TO THE REVIEW PERIOD LIMITATION ABOVE. SCHEDULE SUBMITTAL REVIEWS AND CONSTRUCTION ACCORDINGLY.
9. REVIEW OF SUBMITTALS BY THE STRUCTURAL ENGINEER WILL INCLUDE CHECKING FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. IT WILL NOT INCLUDE REVIEW OF THE ACCURACY OR COMPLETENESS OF ITEMS SUCH AS QUANTITIES, DIMENSIONS, WEIGHTS OR GAUGES, FABRICATION PROCESSES, CONSTRUCTION MEANS OR METHODS, COORDINATION WITH THE WORK OF OTHER TRADES, OR CONSTRUCTION SAFETY PRECAUTIONS. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THE STRUCTURAL ENGINEER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION IN WRITING.
10. SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
11. SUBMITTALS THAT WILL REQUIRE ADDITIONAL REVIEW, IN THE STRUCTURAL ENGINEER'S JUDGMENT, WILL BE MARKED "RESUBMIT". THE SUBMITTAL SHALL BE REVISED AND RESUBMITTED FOR RE-REVIEW AND IS SUBJECT TO ALL THE REQUIREMENTS OF THE INITIAL SUBMITTAL. PROVIDE OWNER REIMBURSEMENT FOR STRUCTURAL ENGINEER COSTS INCURRED TO RE-REVIEW SUBMITTALS.
12. SUBMITTALS THAT HAVE BEEN REVIEWED AND RETURNED BY THE STRUCTURAL ENGINEER, REGARDLESS OF MARKINGS ON THE SUBMITTALS, SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
13. THE MINIMUM REQUIRED STRUCTURAL SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING MARKED ITEMS:
   - □ PILE FABRICATION DRAWINGS AND CALCULATIONS
   - ■ CONCRETE MIX DESIGNS AND SUBSTANTIATING TEST DATA
   - ■ CONCRETE REINFORCING PLACEMENT DRAWINGS
   - □ CONCRETE PRODUCT CERTIFICATION AND DATA SHEETS
   - □ CONCRETE SLAB JOINT LAYOUT
   - ■ MASONRY REINFORCING PLACEMENT DRAWINGS
   - ■ MASONRY GROUT MIX DESIGNS AND SUBSTANTIATING TEST DATA
   - ■ MASONRY MORTAR MIX DESIGNS
   - ■ MASONRY PRODUCT CERTIFICATION AND DATA SHEETS
   - ■ STRUCTURAL STEEL SHOP DRAWINGS
   - ■ STEEL DECK PLACEMENT DRAWINGS AND DATA SHEETS
   - ■ WELDING PROCEDURE SPECIFICATIONS
   - □ METAL-PLATE-CONNECTED WOOD TRUSS PLACEMENT DRAWINGS AND CALCULATIONS
   - □ WOOD I-JOIST PLACEMENT DRAWINGS AND CALCULATIONS
   - □ METAL WEB WOOD JOIST PLACEMENT DRAWINGS AND CALCULATIONS
   - □ GLUED-LAMINATED TIMBER FABRICATION AND PLACEMENT DRAWINGS AND CERTIFICATIONS
   - □ PRE-ENGINEERED LUMBER CERTIFICATIONS AND DATASHEETS
   - □ OPEN WEB STEEL JOIST PLACEMENT DRAWINGS AND CALCULATIONS
   - □ PRE-ENGINEERED STEEL STAIR SHOP DRAWINGS AND CALCULATIONS
   - ■ COLD-FORMED STEEL FRAMING PRODUCTS, ACCESSORIES, DATA SHEETS AND CALCULATIONS

STRUCTURAL OBSERVATION

S- 014500 N001A
170125. Q2

1. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY THE STRUCTURAL OBSERVER (THE STRUCTURAL ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE) FOR GENERAL CONFORMANCE TO THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM.
2. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY OR BY OTHER SECTIONS OF THE BUILDING CODE. REQUIRED INSPECTIONS DO NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR STRUCTURAL OBSERVATION.
3. STRUCTURAL OBSERVATION DOES NOT INCLUDE THE SUPERVISION OF CONSTRUCTION FOR PROPER EXECUTION OF THE WORK SHOWN IN THE CONSTRUCTION DOCUMENTS.
4. THE FOLLOWING COMPLETED CONSTRUCTION STAGES MARKED ARE SUBJECT TO STRUCTURAL OBSERVATION IF DEEMED NECESSARY DURING CONSTRUCTION BY THE STRUCTURAL OBSERVER:
   - ■ FOUNDATION EXCAVATIONS AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT
   - □ FORMWORK CONSTRUCTION AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT
   - □ CONCRETE TILT-UP PANEL INSTALLATION
   - □ CONCRETE PRE-CAST ELEMENT PANEL INSTALLATION
   - ■ MASONRY INSTALLATION AND REINFORCEMENT PRIOR TO GROUT PLACEMENT
   - ■ STEEL FRAMING ERECTION
   - ■ STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO CONCRETE FILL PLACEMENT
   - ■ STEEL DECK INSTALLATION ON FRAMING
   - □ WOOD FRAMING ERECTION
   - □ WOOD STRUCTURAL PANEL INSTALLATION ON FRAMING
   - □ WOOD HARDWARE AND CONNECTOR INSTALLATION ON STRUCTURAL FRAMING
   - □ COLD-FORMED STEEL FRAMING ERECTION
   - □ PRE-FABRICATED STRUCTURAL ELEMENT INSTALLATION
   - ■ PRIOR TO THE CLOSING OF ANY PHASE
   - ■ STRUCTURAL SYSTEM COMPLETION
5. NOTIFY THE STRUCTURAL OBSERVER 48 HOURS MINIMUM IN ADVANCE OF THE COMPLETION OF THE ABOVE CONSTRUCTION STAGES TO FACILITATE STRUCTURAL OBSERVATIONS BY THE STRUCTURAL OBSERVER. COORDINATE WITH THE STRUCTURAL OBSERVER SO THAT THE WORK FOR THE CONSTRUCTION STAGES NOTED ABOVE IS ACCESSIBLE AND EXPOSED FOR STRUCTURAL OBSERVATION PURPOSES. REMOVE AND/OR REPLACE MATERIALS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO ALLOW STRUCTURAL OBSERVATION.
6. DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOTED DURING STRUCTURAL OBSERVATIONS SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
7. PROVIDE OWNER REIMBURSEMENT FOR DESIGN PROFESSIONAL COSTS INCURRED TO CORRECT DEVIATIONS AND TO MAKE REVISIONS TO THE CONSTRUCTION DOCUMENTS, INCLUDING OBTAINMENT OF ENFORCEMENT AGENCY APPROVAL AS REQUIRED.
8. CORRECTIVE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AND THE BUILDING CODE.
9. AT THE COMPLETION OF THE WORK INCLUDED IN THE CONSTRUCTION DOCUMENTS, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE ENFORCEMENT AGENCY A WRITTEN STATEMENT THAT THE STRUCTURAL OBSERVATIONS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

FIRE SPRINKLER COORDINATION

S- 210000 N001A
180620. Q2

1. AUTOMATIC FIRE SPRINKLER SYSTEM (AFSS) DESIGN AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE, ASCE 7, AND NFPA 13.
2. THE ABOVE GROUND PORTION OF THE AFSS SHALL BE DESIGNED BY A CALIFORNIA LICENSED MECHANICAL ENGINEER, FIRE PROTECTION ENGINEER, OR A DESIGN/BUILD C-16 FIRE PROTECTION CONTRACTOR.
3. INSTALLATION SHALL NOT BEGIN PRIOR TO OBTAINING APPROVAL FROM THE ENFORCEMENT AGENCY AND REVIEW BY ARCHITECT AND STRUCTURAL ENGINEER.
4. INSTALL AFSS PIPING WITH 2" MINIMUM CLEARANCE FROM STRUCTURAL MEMBERS NOT PENETRATED OR USED TO SUPPORT THE PIPING.
5. INSTALL APPROVED SEISMIC SEPARATION ASSEMBLIES WHERE AFSS PIPING, REGARDLESS OF SIZE, CROSSES BUILDING SEISMIC SEPARATION JOINTS AT GROUND LEVEL AND ABOVE. PROVIDE A FOUR-WAY BRACE TO PIPING AT EACH SIDE OF ASSEMBLIES. ATTACH BRACE TO PIPING, NOT THE ASSEMBLIES, WITHIN 6' OF THE ASSEMBLIES.
6. AFSS PIPING SHALL PASS THROUGH HOLES/SLEEVES IN WALLS, FLOORS, ROOFS OR FOUNDATIONS. COMPLY WITH ALL STRUCTURAL DETAILS AND THE FOLLOWING: PROVIDE 2" NOMINAL CLEAR AT HOLES/SLEEVES FOR PIPES 3 1/2" AND SMALLER. PROVIDE 4" NOMINAL CLEAR AT HOLES/SLEEVES FOR PIPES 4" AND LARGER.
7. AFSS PIPING SHALL NOT PENETRATE OR INTERRUPT FRAMING MEMBERS INCLUDING BUT NOT LIMITED TO STUDS, POSTS, COLUMNS, JOISTS, RAFTERS, BEAMS AND GIRDERS. DO NOT CUT OR DRILL FRAMING MEMBERS UNLESS SPECIFICALLY NOTED.
8. AFSS PIPING HANGERS, COMPONENTS AND FASTENERS SHALL BE LISTED, FERROUS, AND DESIGNED TO SUPPORT FIVE TIMES THE TRIBUTARY WEIGHT OF WATER-FILLED PIPE PLUS 250 POUNDS.
9. PIPING HANGERS SHALL NOT BE SUBJECTED TO BENDING. INSTALL WITH SWIVELS, EYE NUTS, ARTICULATING ATTACHMENTS OR OTHER DEVICES TO PREVENT BENDING.
10. PIPING HANGERS SHALL BE SUBSTANTIALLY SUPPORTED FROM THE BUILDING STRUCTURE. C-TYPE CLAMPS USED TO ATTACH HANGERS TO THE BUILDING STRUCTURE SHALL BE EQUIPPED WITH A RESTRAINING STRAP. POWER ACTUATED FASTENERS SHALL NOT BE USED TO ATTACH HANGERS TO THE BUILDING STRUCTURE.
11. STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE TRIBUTARY WEIGHT OF WATER-FILLED PIPE PLUS 250 POUNDS AT EACH SPRINKLER SUPPORT POINT, WITHIN FRAMING LIMITATIONS NOTED BELOW. INSTALL TRAPEZE HANGERS WHERE NECESSARY TO SUPPORT PIPING FROM APPROPRIATE STRUCTURAL FRAMING MEMBERS.
12. THE MAXIMUM DISTANCE BETWEEN AFSS PIPING HANGERS SHALL NOT EXCEED: 12' FOR STEEL PIPE 1 1/4" AND SMALLER; 15' FOR STEEL PIPE 1 1/2" AND LARGER; 12' FOR THREADED LIGHTWALL STEEL PIPE 1" TO 3".
13. PROVIDE ONE HANGER MINIMUM ON EACH SECTION OF PIPE, BETWEEN EACH BRANCH LINE AT MAINS, AND AT THE ENDS OF MAINS. HANGER CLEARANCE TO UPRIGHT SPRINKLER SHALL BE 3" MINIMUM.
14. STEEL FRAMING SUPPORTING AFSS PIPING HANGERS SHALL COMPLY WITH THE FOLLOWING: DO NOT SUPPORT PIPING FROM BARE STEEL DECK. DO NOT SUPPORT PIPING 2 1/2" AND GREATER FROM CONCRETE FILLED STEEL DECK OR CONCRETE SLABS. DO NOT SUPPORT PIPING FROM FRAMING LESS THAN 8" DEEP. DO NOT SUPPORT MORE THAN ONE PIPING HANGER AT ANY MEMBER LESS THAN 12" DEEP.
15. LATERAL BRACING SHALL BE PROVIDED ON ALL FEED AND CROSS MAINS REGARDLESS OF PIPING SIZE, ON ALL OTHER PIPING 2 1/2" AND LARGER, AND SHALL BE SPACED AT A MAXIMUM OF 40' ON CENTER. THE LAST LENGTH OF PIPE AT THE END OF PIPE RUNS BEING BRACED SHALL BE PROVIDED WITH A BRACE WITHIN 6' OF THE END OF THE PIPE.
16. LONGITUDINAL BRACING SHALL BE PROVIDED ON ALL FEED AND CROSS MAIN PIPING, AND SHALL BE SPACED AT A MAXIMUM OF 80' ON CENTER. PROVIDE A BRACE WITHIN 40' OF EACH END OF EACH RUN OF PIPE.
17. LONGITUDINAL BRACES SHALL BE ALLOWED TO ACT AS LATERAL BRACES IF THEY ARE WITHIN 24" OF THE CENTER LINE OF THE PIPING BRACED LATERALLY. LATERAL BRACES SHALL BE ALLOWED TO ACT AS LONGITUDINAL BRACES IF THEY ARE WITHIN 24" OF THE CENTERLINE OF THE PIPING BRACED LONGITUDINALLY AND THE LATERAL BRACE IS ON A PIPE OF EQUAL OR GREATER SIZE THAN THE PIPE BEING BRACED LONGITUDINALLY.
18. EACH RUN OF PIPE BETWEEN CHANGES IN DIRECTION SHALL BE PROVIDED WITH BOTH LATERAL AND LONGITUDINAL BRACING OTHER THAN PIPE RUNS LESS THAN 12' LONG.
19. BRACE ATTACHMENT TO PIPING SHALL BE LOCATED WITHIN 6" OF A HANGER OF A TYPE THAT PREVENTS UPWARD MOVEMENT OF THE PIPE. HANGER L/R AT BRACE SHALL NOT EXCEED 200.
20. BRACES SHALL BE ATTACHED DIRECTLY TO FEED AND CROSS MAINS. INSTALL SO THAT CONNECTIONS ARE TIGHT AND IN STRAIGHT LINES TO AVOID ECCENTRIC LOADINGS ON BRACES, COMPONENTS, AND FASTENERS. POWER ACTUATED FASTENERS, LAG SCREWS, OR C-TYPE CLAMPS SHALL NOT BE USED TO ATTACH BRACES TO THE BUILDING STRUCTURE.
21. THREADED PIPE USED AS PART OF A BRACE ASSEMBLY SHALL BE SCHEDULE 40 MINIMUM.
22. TOPS OF RISERS EXCEEDING 3' IN LENGTH SHALL BE PROVIDED WITH A FOUR-WAY BRACE.
23. BRANCH LINE PIPING SHALL BE VERTICALLY AND LATERALLY RESTRAINED AT INTERVALS NOT EXCEEDING 40' AND AT EACH END SPRINKLER ON A LINE. SPRIGS 4' OR LONGER SHALL BE LATERALLY RESTRAINED.
24. AFSS SUBMITTAL DRAWINGS FOR STRUCTURAL REVIEW SHALL SHOW LOCATIONS AND SIZES OF ALL PIPING, HANGERS, BRACING AND THEIR ATTACHMENTS TO THE BUILDING STRUCTURE. PROVIDE CALCULATIONS FOR MAXIMUM VERTICAL AND LATERAL LOADS FOR EACH HANGER TYPE, AND DETAILS FOR HANGERS, BRACES AND ANCHORS SHOWING MATERIALS FOR ANCHORAGE, ETC. INCLUDE IN SUBMITTAL ICC REPORTS FOR ALL ANCHORS INDICATING ALLOWABLE LOADS FOR THE SPECIFIC CONFIGURATION OF STRUCTURE CONNECTED TO.

FOUNDATION AND EARTHWORK

S- 033000 N003A
170125. Q2

1. ALL FOUNDATION AND EARTHWORK INCLUDING, BUT NOT LIMITED TO, EXCAVATION, GRADING, FILLING, SUB-GRADE PREPARATION, SOIL TREATMENT, ASSOCIATED SITE WORK, TRENCHING AND BACKFILLING SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
2. THE GEOTECHNICAL INFORMATION PROVIDED IS BASED UPON A GEOTECHNICAL REPORT PROVIDED BY THE OWNER FOR THIS PROJECT. THE GEOTECHNICAL REPORT WAS USED FOR THE DESIGN INDICATED IN THESE CONSTRUCTION DOCUMENTS. THE GEOTECHNICAL REPORT AND THE RECOMMENDATIONS CONTAINED THEREIN SHALL BE USED IN CONJUNCTION WITH THE CONSTRUCTION DOCUMENTS. COMPLY WITH THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT.
3. THE GEOTECHNICAL INFORMATION PROVIDED IS NOT A WARRANTY OF THE SITE OR SUBSURFACE CONDITIONS. PRIOR TO BIDDING AND AT NO COST TO THE OWNER, SITE VISITS TO INVESTIGATE OR TO PERFORM ADDITIONAL SUBSURFACE INVESTIGATIONS MAY BE MADE TO DETERMINE THE EXISTING CONDITIONS. SUCH INVESTIGATIONS MAY BE PERFORMED ONLY UNDER TIME SCHEDULES AND ARRANGEMENTS APPROVED BY THE OWNER IN ADVANCE.
4. AN OWNER-RETAINED SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER SHALL PROVIDE TESTING AND INSPECTION SERVICES DURING ALL FOUNDATION AND EARTHWORK. PRIOR TO REQUESTING AN ENFORCEMENT AGENCY FOUNDATION INSPECTION, OBTAIN WRITTEN DOCUMENTATION FROM THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER THAT THE FOUNDATION AND EARTHWORK IS IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
5. NOTIFY THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER 48 HOURS IN ADVANCE OF THE TIME WHEN THE FOUNDATION EXCAVATIONS AND EARTHWORK WILL BE COMPLETE AND READY FOR FORMS OR REINFORCING PLACEMENT. NO FORMS OR REINFORCING SHALL BE PLACED IN ANY FOUNDATION UNTIL THE EXCAVATION HAS BEEN INSPECTED AND APPROVED BY THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER.
6. FOUNDATIONS SHALL EXTEND INTO FIRM BEARING IN UNDISTURBED SOIL, OR WHERE REQUIRED, IN COMPACTED FILL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL PER THE CONSTRUCTION DOCUMENTS. FOUNDATION DEPTHS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE MINIMUM DEPTHS ONLY. FOUNDATION EXCAVATIONS MAY BE REQUIRED TO BE OVER-EXCAVATED TO REACH SUITABLE BEARING MATERIAL. WHERE THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER HAS DETERMINED OVER-EXCAVATION IS REQUIRED, THE REMOVED MATERIAL MAY BE REPLACED WITH COMPACTED FILL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL PER THE CONSTRUCTION DOCUMENTS.
7. FOUNDATIONS BELOW GRADE SHALL BE FORMED UNLESS WRITTEN DOCUMENTATION PERMITTING UNFORMED FOOTINGS IS OBTAINED FROM THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER. FORWARD WRITTEN DOCUMENTATION TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO THE START OF FOUNDATION EXCAVATIONS. THE SIDES OF UNFORMED FOUNDATION EXCAVATIONS MUST BE ABLE TO STAND WITHOUT CAVING OR SLOUGHING. PROVIDE FORMS OR PROTECTION AS REQUIRED TO PREVENT SLOUGHING OF SOIL INTO EXCAVATIONS. WHERE UNFORMED FOUNDATIONS ARE USED, COORDINATE AND COMPLY WITH THE CONCRETE PROTECTION REQUIREMENTS FOR REINFORCEMENT PLACED ADJACENT TO EARTH. FOUNDATIONS ABOVE GRADE SHALL BE FORMED. ALL FORMS SHALL BE REMOVED ABOVE OR BELOW GRADE, UNLESS OTHERWISE NOTED.
8. THE TOP SURFACE OF FOUNDATIONS SHALL BE LEVEL. THE BOTTOM SURFACE OF FOUNDATIONS IS PERMITTED TO HAVE A SLOPE NOT EXCEEDING ONE UNIT VERTICAL IN TEN UNITS HORIZONTAL. FOOTINGS SHALL BE STEPPED HERE IT IS NECESSARY TO CHANGE THE ELEVATION OF THE TOP SURFACE OF THE FOOTING OR WHERE THE SURFACE OF THE GROUND AND/OR BOTTOM SURFACE OF THE FOOTINGS SLOPES MORE THAN ONE UNIT VERTICAL IN TEN UNITS HORIZONTAL. STEP FOOTINGS AS REQUIRED PER TYPICAL DETAILS.
9. THE TOP OF EXTERIOR FOOTINGS SHALL BE LOCATED 4 INCHES MINIMUM BELOW LOWEST ADJACENT EXTERIOR FINISHED GRADE OR SURFACE, UNLESS OTHERWISE NOTED. WHERE ADJACENT EXTERIOR FINISHED GRADE OR SURFACE SLOPES DOWN AND AWAY FROM THE FOUNDATION, THE TOP OF EXTERIOR FOOTINGS SHALL BE NO HIGHER THAN THE ELEVATION OF THE FINISHED GRADE OR SURFACE LOCATED 18 INCHES FROM THE FACE OF SUCH FOOTING, UNLESS OTHERWISE NOTED. STEP FOOTINGS AS REQUIRED PER TYPICAL DETAILS TO OBTAIN THE MINIMUM DIMENSIONS REQUIRED.
10. FOUNDATION DEPTHS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE MINIMUM DEPTHS ONLY AND DO NOT NECESSARILY ACCOUNT FOR ALL PIPES, CONDUITS, UTILITIES AND TRENCHES ADJACENT TO OR CROSSING FOOTINGS AS REQUIRED BY ALL OTHER CONSTRUCTION DOCUMENTS. STEP FOOTINGS TO COMPLY WITH THE REQUIREMENTS OF TYPICAL DETAILS FOR PIPES AND CONDUITS AT FOOTINGS.
11. FOR DAMP-PROOFING, WATER-PROOFING AND DRAINAGE SYSTEMS ADJACENT TO FOUNDATIONS, SEE ALL OTHER CONSTRUCTION DOCUMENTS.
12. FOUNDATION ELEMENTS SHOWN ARE INDICATED IN THEIR COMPLETED LOCATION AND CONDITION. FILL AROUND FOUNDATION ELEMENTS SHALL BE PLACED IN LIFTS AND COMPACTED IN A MANNER THAT DOES NOT DAMAGE OR MOVE THE FOUNDATION. WATER-PROOFING OR DAMP-PROOFING. SHORE AND ADEQUATELY SUPPORT FOUNDATION ELEMENTS WHILE PLACING FILL UNTIL THE FOUNDATION ELEMENTS AND THEIR SUPPORTING STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED AND ATTAINED THEIR REQUIRED DESIGN STRENGTHS.
13. FOUNDATION EXCAVATIONS SHALL BE CLEANED OF DEBRIS, LOOSE SOIL AND STANDING WATER DURING CONSTRUCTION AND IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. PROVIDE FOR DE-WATERING IF WATER IS PRESENT IN THE EXCAVATIONS DUE TO ANY SOURCE.
14. FOUNDATION EXCAVATIONS SHALL BE MADE TO THE SIZES AND SHAPES REQUIRED BY THE CONSTRUCTION DOCUMENTS. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
15. EXTERIOR FINISHED GRADES OR SURFACES SHALL HAVE POSITIVE DRAINAGE AWAY FROM FOUNDATIONS. GROUND SURFACES WITHIN TEN FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 5%. PAVED SURFACES WITHIN TEN FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2%. PLANTERS SHALL HAVE ADEQUATE SURFACE DRAINAGE TO PREVENT STANDING WATER ADJACENT TO THE FOUNDATIONS.
16. WHERE EXCAVATIONS OCCUR ADJACENT TO EXISTING STRUCTURES, PROVIDE ADEQUATE UNDERPINNING, SHORING OR SUPPORT TO PREVENT SETTLEMENT AND LATERAL MOVEMENT OF THE EXISTING FOUNDATIONS. FOUNDATIONS ADJACENT TO EXISTING FOUNDATIONS SHALL PENETRATE A MINIMUM OF THE SAME DEPTH AS EXISTING, UNLESS OTHERWISE NOTED.
17. FOUNDATION SIZES SHALL BE AS REQUIRED ON THE CONSTRUCTION DOCUMENTS. THE MINIMUM DEPTH NOTED SHALL BE BELOW THE ADJACENT UNDISTURBED GROUND SURFACE. THE MINIMUM DEPTH SHALL ALSO EXTEND BELOW THE FROST LINE OF THE LOCALITY. FOOTINGS SHALL NOT BEAR ON FROZEN SOIL.

CONTROLLED LOW STRENGTH MATERIAL (CLSM)

S- 033000 N004A
200203. Q2

1. CLSM SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH BETWEEN 50 PSI AND 150 PSI AS TESTED PER ASTM D4832.
2. CLSM MATERIALS SHALL MEET THE RECOMMENDATIONS OF ACI 229R.
3. CLSM SHALL HAVE A MINIMUM SLUMP OF 10".
4. TESTING LAB SHALL FIELD VERIFY STRENGTH OF CLSM, WITH A MINIMUM FREQUENCY OF ONE TEST PER DAY.

REINFORCED MASONRY

S- 042200 N001A
190805. Q2

1. MASONRY WORK, MATERIALS, CONSTRUCTION, AND QUALITY SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE, TMS 402/ACI 530/ASCE 5 AND TMS 602/ACI 530.1/ASCE 6.
2. COMPLETED MASONRY ASSEMBLIES SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH (F'M) OF 2,000 PSI MINIMUM. COMPRESSIVE STRENGTH SHALL BE VERIFIED BY THE UNIT STRENGTH METHOD.
3. HOLLOW AND SOLID CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A MAXIMUM OVEN DRY DENSITY OF 135 PCF. UNITS SHALL HAVE A NET AREA COMPRESSIVE STRENGTH OF 2,000 PSI MINIMUM.
4. MORTAR SHALL CONFORM TO ASTM C270-TYPE S.
5. MASONRY UNITS AND MORTAR SHALL CONFORM TO THE COLOR AND STYLE SPECIFIED BY THE ARCHITECT.
6. GROUT SHALL CONFORM TO ASTM C476 OR BE PROPORTIONED TO ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI MINIMUM AS TESTED PER ASTM C1019. THOROUGHLY MIX GROUT MATERIALS AND WATER TO PROVIDE ADEQUATE FLUIDITY FOR PLACEMENT WITHOUT SEGREGATION OR SEPARATION. MIX GROUT TO A CONSISTENCY THAT HAS A SLUMP BETWEEN 8 AND 11 INCHES. GROUT PROVIDED FOR POURS OVER 5'-4" IN HEIGHT SHALL CONTAIN AN ADMIXTURE OF THE TYPE THAT REDUCES EARLY WATER LOSS TO THE MASONRY UNITS AND PRODUCES AN EXPANSIVE ACTION IN THE PLASTIC GROUT SUFFICIENT TO OFFSET INITIAL SHRINKAGE AND PROMOTE BONDING OF THE GROUT TO ALL INTERIOR SURFACES OF THE MASONRY UNITS.
7. ADDITIVES AND ADMIXTURES SHALL NOT BE USED FOR MORTAR OR GROUT UNLESS ACCEPTABLE TO THE ENFORCEMENT AGENCY. ADDITIVES AND ADMIXTURES SHALL BE USED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND EVALUATION REPORTS. EVALUATION REPORTS SHALL HAVE A CURRENT AND VALID LISTING ISSUED BY AN ACCEPTABLE EVALUATION AGENCY. ANTI-FREEZE OR AIR ENTRAINMENT SUBSTANCES SHALL NOT BE USED.
8. REINFORCING BARS SHALL CONFORM TO ASTM A615-GRADE 60 OR ASTM A706-GRADE 60. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS SHALL NOT EXCEED 1.3 TIMES THE SPECIFIED YIELD STRENGTH.
9. JOINT REINFORCEMENT SHALL CONFORM TO ASTM A951.
10. WIRE TIES/ANCHORS SHALL CONFORM TO ASTM A82.
11. SHEET METAL ANCHORS/TIES SHALL CONFORM TO ASTM A1008.
12. JOINT REINFORCEMENT, WIRE TIES/ANCHORS, AND SHEET METAL ANCHORS/TIES SHALL BE HOT-DIP GALVANIZED TO CONFORM TO ASTM A153.
13. ANCHOR BOLTS SHALL HAVE HEX HEADS AND CONFORM TO ASTM A307-GRADE A OR ASTM F1554-GRADE 36. ANCHOR RODS SHALL CONFORM TO ASTM F1554-GRADE 36 OR ASTM A36 WITH THREADED ENDS AND HEAVY HEX NUTS AT THE ANCHORED END. NUTS FOR BOLTS OR RODS SHALL CONFORM TO ASTM A563-GRADE A-HEX.
14. ROUGHEN CONCRETE BEARING SURFACES BY EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE CEMENT MATRIX. BEFORE PLACING MASONRY UNITS CLEAN BEARING SURFACES AND HORIZONTAL CONSTRUCTION JOINTS OF ALL LOOSE MATERIAL, DEBRIS AND MORTAR DROPPINGS.
15. HOLLOW-UNIT MASONRY SHALL BE BUILT TO MAINTAIN THE CLEAR AND UNOBSTRUCTED CONTINUITY OF THE VERTICAL AND HORIZONTAL CELLS TO BE GROUTED. USE TWO OR MORE SINGLE OPEN END UNITS ARRANGED SO THAT CLOSED ENDS OF ADJACENT UNITS DO NOT ABUT UNO. WHERE STACK BOND PATTERN IS NOTED, USE TWO-CORE DOUBLE OPEN END UNITS.
16. MULTI-WYTHE MASONRY SHALL BE BUILT WITH SOLID UNITS IN THE OUTER WYTHES TO MAINTAIN THE CLEAR AND UNOBSTRUCTED CONTINUITY OF THE SPACE TO BE GROUTED. THE TWO WYTHES SHALL BE BONDED T

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

COLD-FORMED STEEL FRAMING

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1. THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED STEEL FRAMING SHALL BE IN ACCORDANCE WITH THE FOLLOWING AISI NORTH AMERICAN STANDARDS:
   S100 - SPECIFICATION FOR THE DESIGN OF STRUCTURAL MEMBERS
   S202 - CODE OF STANDARD PRACTICE FOR STEEL FRAMING
   S220 - STANDARD FOR NONSTRUCTURAL MEMBERS
   S240 - STANDARD FOR STRUCTURAL FRAMING
   S400 - STANDARD FOR SEISMIC DESIGN
2. ALL PRODUCTS SHALL POSSESS DIMENSIONS, SECTION PROPERTIES AND MATERIALS IN COMPLIANCE WITH THE AISI D100 MANUAL OF COLD-FORMED STEEL DESIGN AND BE MANUFACTURED BY A CURRENT MEMBER OF THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA) OR "STEEL FRAMING INDUSTRY ASSOCIATION" (SFIA).
3. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.
4. STEEL MEMBERS AND COMPONENTS SHALL BE GALVANIZED ZINC-COATED PER ASTM A653 WITH COATING WEIGHTS AS FOLLOWS UNO: NON-STRUCTURAL MEMBERS G40, STRUCTURAL MEMBERS G60, ALL MEMBERS PERMANENTLY EXPOSED TO UN-CONDITIONED AIR G90, ALL MEMBERS USED IN MARINE ENVIRONMENTS G185.
5. STEEL MEMBERS 18 GA OR LIGHTER SHALL BE MANUFACTURED PER A1003 STRUCTURAL GRADE 33 TYPE H (ST33H), AND 16 GA OR HEAVIER PER A1003 STRUCTURAL GRADE 50, TYPE H (ST50H).
6. THE MINIMUM UNCOATED STEEL THICKNESS AS DELIVERED TO THE JOBSITE SHALL BE: 25 GA = 0.018", 22 GA = 0.027", 20 GA = 0.033", 18 GA = 0.043", 16 GA = 0.054", 14 GA = 0.068", 12 GA = 0.097".
7. STUDS/JOISTS SHALL HAVE 1 5/8" WIDE FLANGES, TYP UNO.
8. STUDS/JOISTS SHALL HAVE WEB PUNCH-OUTS AT 24" OC AT MID-DEPTH. PUNCH-OUTS SHALL NOT EXCEED 1 1/2" IN WIDTH, AND 4" IN LENGTH. NO OTHER OPENINGS IN STUDS/JOISTS ARE PERMITTED UNLESS SPECIFICALLY DETAILED.
9. TRACK SHALL MATCH STUD/JOIST DEPTH & GAGE, AND FLANGE WIDTH SHALL BE 1 1/4", TYP, UNO. ALL TRACKS TO BE UNPUNCHED WITH SOLID WEBS.
10. FASTENING OF FRAMING COMPONENTS SHALL BE WITH SELF-DRILLING SELF-TAPPING SCREWS OR WELDING. WHERE DETAILS CALL FOR SCREWS, THE MINIMUM SIZES SHALL BE AS FOLLOWS: #6 FOR 22 GA OR LIGHTER MATERIAL, #8 FOR 20 GA MATERIAL, #10 FOR 18 & 16 GA MATERIAL, & # 12 FOR 14 GA OR HEAVIER MATERIAL, TYP UNO. SCREW SIZE IS DETERMINED BY THE GA OF THE THICKEST PART BEING JOINED UNO. INSTALL SCREWS WITH THE HEAD IN CONTACT WITH THE THINNEST PART BEING JOINED UNO. AS AN ALTERNATE, STEEL MEMBERS 18 GA OR HEAVIER MAY BE WELDED WITH A 1/2" LONG WELD (FILLET OR FLARE GROOVE) INSTEAD OF EACH SCREW, TYP UNO.
11. SCREW SPACING SHALL NOT BE LESS THAN 3 TIMES THE NOMINAL SCREW DIAMETER. SCREW EDGE DISTANCE SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL SCREW DIAMETER. PENETRATION OF SCREWS THROUGH JOINED MATERIALS SHALL NOT BE LESS THAN 3 EXPOSED THREADS. SCREW HEADS SHALL BE LOW-PROFILE TYPE.
12. SCREWS SHALL CONFORM WITH ASTM C1513 AND HAVE A CORROSION-RESISTANT COATING.
13. BOLTS SHALL BE INSTALLED IN STANDARD SIZE HOLES, UNO. STANDARD SIZE HOLES SHALL BE BOLT DIA + 1/32" FOR BOLTS SMALLER THAN 1/2" DIA, AND BOLT DIA + 1/16" AT 1/2" DIA AND LARGER BOLTS.
14. WELDING SHALL CONFORM WITH AWS D1.3. WELDING TO STRUCTURAL STEEL SHALL ALSO CONFORM WITH AWS D1.1. THE ELECTRODES USED FOR WELDING SHALL HAVE A MINIMUM YIELD STRENGTH OF 60 KSI. WELDS OF GALVANIZED STEEL SHALL BE COATED WITH A ZINC-RICH PAINT.
15. FASTENING OF SHEATHING SHALL BE WITH SELF-DRILLING SELF-TAPPING SCREWS. #6 MIN FOR GYPSUM BOARD & #8 MIN FOR STRUCTURAL PANELS. SCREW HEADS SHALL BE COUNTER SUNK FLAT-PROFILE TYPE.
16. NON-STRUCTURAL INTERIOR WALLS SUPPORTED AT THE BASE AND EXTENDING TO THE BOTTOM OF STRUCTURE ABOVE SHALL HAVE SLIP TRACKS AT THE TOP, UNO.
17. FRAME INDIVIDUAL MEMBERS AND EACH ELEMENT OF BUILT-UP MEMBERS, CONTINUOUS ONE PIECE BETWEEN SUPPORTS. SPLICE ONLY WHERE SPECIFICALLY NOTED.

STEEL DECKING

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1. STEEL DECKING WORK, MATERIALS, CONSTRUCTION AND QUALITY SHALL BE IN ACCORDANCE WITH THE BUILDING CODE.
2. PRODUCTS SHALL POSSESS CURRENT EVALUATION AGENCY APPROVALS WITH SECTION DIMENSIONS, PROPERTIES AND MATERIALS IN COMPLIANCE WITH THE THE TYPICAL DETAILS. SEE CONSTRUCTION DOCUMENTS FOR STEEL DECK TYPE AND GAGE.
3. WELDING MATERIALS AND PROCEDURES SHALL CONFORM TO AWS D1.3. WELDING TO STRUCTURAL STEEL SHALL ALSO CONFORM TO AWS D1.1. ELECTRODES USED FOR WELDING SHALL HAVE A MINIMUM 60KSI FILLER METAL YIELD STRENGTH.
4. BARE STEEL DECK SHALL BE MANUFACTURED BY:
   - "ASC STEEL DECK" PER IAPMO ER 0161
   - "EPIC METALS CORPORATION" PER ICC ESR 2047

   CONCRETE FILLED STEEL DECK SHALL BE MANUFACTURED BY
   - "ASC STEEL DECK" PER IAPMO ER 0329
   - "EPIC METALS CORPORATION" PER ICC ESR 2047
5. SHEET STEEL ACCESSORIES SHALL BE FABRICATED FROM THE SAME GAUGE AND MATERIALS AS ADJACENT STEEL DECK, UNO.
6. STEEL DECK SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS) DESIGNATION, MINIMUM GRADE AS INDICATED IN EVALUATION AGENCY REPORT.
7. STEEL DECK AND ACCESSORIES SHALL BE GALVANIZED ZINC-COATED IN CONFORMANCE WITH ASTM A653 WITH COATING WEIGHTS AS FOLLOWS UNO:
   STANDARD DECK COATING SHALL BE G60, DECK COATING AT EXTERIOR PERMANENTLY EXPOSED LOCATIONS SHALL BE G90, DECK COATING IN MARINE ENVIRONMENTS SHALL BE G185.
8. STEEL DECK SHALL BE CONTINUOUS OVER MULTIPLE SPANS WHERE FRAMING PERMITS. LAYOUT STEEL DECK TO PROVIDE TWO SPANS MINIMUM AND THREE SPANS OR GREATER WHERE POSSIBLE. SINGLE SPANS SHALL OCCUR ONLY WHERE CONTINUITY CANNOT BE MADE ONTO ADJACENT SPANS.
9. STEEL DECK SHALL BE INSTALLED WITH A MINIMUM INTERMEDIATE AND END BEARING OF 2" OVER STRUCTURAL SUPPORTS. STEEL DECK SPLICES SHALL BE BUTTED WITH RIBS ALIGNED, UNO. BARE STEEL DECK MAY BE LAP SPLICED WITH A MINIMUM LAP OF 2" PROVIDED THE DECK ENDS ARE DIE SET, UNO.
10. STEEL DECK SPLICES SHALL BE CENTERED OVER A COMMON MEMBER.
11. ARC SPOT WELDS SHALL HAVE A MINIMUM 1/2" DIAMETER EFFECTIVE SIZE. ARC SPOT WELD MINIMUM DECK EDGE DISTANCE SHALL BE 1.5 TIMES THE VISIBLE WELD DIAMETER MEASURED FROM THE CENTER OF THE WELD.
12. ARC SEAM WELDS MAY BE SUBSTITUTED FOR ARC SPOT WELDS. ARC SEAM WELDS SHALL HAVE A MINIMUM 3/8" WIDE BY 1" LONG EFFECTIVE SIZE. ARC SEAM WELD MINIMUM DECK EDGE DISTANCE SHALL BE 1.5 TIMES THE VISIBLE WELD DIAMETER MEASURED FROM THE LONGITUDINAL AXIS OR FROM THE CENTER OF THE END RADIUS OF THE WELD.
13. THE MINIMUM CLEAR DISTANCE BETWEEN ADJACENT WELDS AND BETWEEN A WELD AND THE DECK EDGE SHALL BE NO LESS THAN THE VISIBLE WELD DIAMETER.
14. FILLET WELDS SHALL HAVE A MINIMUM LEG SIZE EQUAL TO THE THICKNESS OF THE THINNEST SHEET STEEL BEING ATTACHED. FILLET WELDS SHALL HAVE A MINIMUM LENGTH OF 3/4".
15. FLARE GROOVE WELDS SHALL HAVE A MINIMUM WELD THROAT SIZE EQUAL TO THE THICKNESS OF THE THINNEST SHEET STEEL BEING ATTACHED. FLARE GROOVE WELDS SHALL HAVE A MINIMUM LENGTH OF 3/4".
16. STEEL DECK PANELS AT CANTILEVERED CONDITIONS AND AT PARTIAL WIDTH PANELS SHALL HAVE CONNECTIONS FOR THE ENTIRE LENGTH OF THE DECK PANEL AS FOLLOWS: CONNECTIONS TO EACH STRUCTURAL SUPPORT AT EACH LOW FLUTE AND SIDE SEAM CONNECTIONS AT ENDS AND 12" ON CENTER MAXIMUM.
17. ACCESSORIES SHALL BE FASTENED TO SUPPORTING STEEL DECK AND STRUCTURAL MEMBERS BY CONNECTIONS SPACED AT 12" MAXIMUM ON CENTER AND AT EACH END.
18. PROVIDE EDGE FORMS, FLASHING, CLOSURE PLATES, AND SUPPLEMENTARY SUPPORTS FOR DECK EDGES AT BUILDING PERIMETER, AT OPENINGS AND AT PENETRATIONS THROUGH DECK.
19. DO NOT SUSPEND OR ATTACH SUPPORTS FOR NONSTRUCTURAL COMPONENTS FROM BARE STEEL DECK, EXCEPT FOR COMPONENTS WEIGHING LESS THAN 100 LBS OR HANGER WIRE SUSPENDED ACOUSTIC OR SINGLE-LAYER GYPSUM BOARD CEILINGS (MAXIMUM CEILING SYSTEM WEIGHT OF 4 PSF) INCLUDING THEIR INTEGRALLY SUPPORTED LIGHT FIXTURES, TERMINALS AND DEVICES. COORDINATE HANGER WIRE SUPPORT DETAILS WITH STEEL DECK INSTALLATION.
20. SUPPORTS OR ANCHORS FOR ITEMS NOT PERMITTED TO BE ATTACHED TO STEEL DECK SHALL BE SUPPORTED BY STRUCTURAL FRAMING. PROVIDE ADDITIONAL TRAPEZE HANGERS OR SUPPLEMENTARY FRAMING AS NECESSARY.
21. DO NOT SUSPEND OR ATTACH SUPPORTS FOR NONSTRUCTURAL COMPONENTS FROM CONCRETE FILLED STEEL DECK WHERE THE ATTACHMENT WILL SUPPORT GREATER THAN 250 LBS.
22. STEEL DECK WITH CONCRETE FILL SHALL BE COMPOSITE STEEL DECK UNO.
23. PROVIDE SHORING WHEN THE SPAN OF CONCRETE FILLED STEEL DECK EXCEEDS THE MAXIMUM PERMISSIBLE UNSHORED SPAN OF THE STEEL DECK AS INDICATED IN THE EVALUATION AGENCY REPORT.
24. CONCRETE FILLED NON-CELLULAR STEEL DECK SHALL BE VENTED WITH FACTORY PUNCHED HOLES, EXCEPT WHERE DECK UNDERSIDE IS PERMANENTLY EXPOSED.
25. WHERE WELDED HEADED STUD CONNECTORS TO STRUCTURAL SUPPORTS ARE USED THEY MAY REPLACE A REQUIRED STEEL DECK CONNECTION.
26. NO PIPES, DUCTS OR CONDUITS ARE TO BE EMBEDDED IN CONCRETE FILL OVER STEEL DECK UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS.

STRUCTURAL STEEL

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1. THE DESIGN, FABRICATION AND ERECTION OF STEEL SHALL BE IN ACCORDANCE WITH AISC 360 AND AISC 341 INCLUDING ANY ENFORCEMENT AGENCY AMENDMENTS.
2. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNO:

STEEL PRODUCT	ASTM SPECIFICATION, UNO	COMMENTS
W & WT SHAPES	A992, GRADE 50	Fy = 50ksi
HP SHAPES	A572, GRADE 50	Fy = 50ksi
M, MT, S & ST SHAPES	A36	Fy = 36ksi
CHANNELS (C & MC)	A36	Fy = 36ksi
ANGLES	A36	Fy = 36ksi
PLATES & BARS	A36,TYP, UNO	Fy = 36ksi
	A572, GRADE 50	Fy = 50ksi
RODS, PLAIN & ALL-THREADED	A36	Fy = 36ksi
RAISED-PATTERN FLOOR PLATE	A786, MEETING ASTM A36	Fy = 36ksi
PIPES	A53, GRADE B	Fy = 35ksi
ROUND HSS	A500, GRADE C	Fy = 46ksi
RECTANGULAR & SQUARE HSS	A500, GRADE C	Fy = 50ksi
HIGH-STRENGTH BOLTS	F3125, GRADE A325, TYPE 1	Fy = 92ksi
TWIST-OFF-TYPE TENSION-CONTROL BOLTS	F3125, GRADE F1852, TYPE I	
BOLTS	A307, GRADE A, HEX	Fy = 60ksi
WASHERS	F844	
PLATE WASHERS	A36	Fy = 36ksi
HARDENED WASHERS	F436, TYPE I	
DIRECT-TENSION INDICATOR WASHERS	F959, TYPE 325	
NUTS FOR HS & TENSION CONTROL BOLTS	A563, GRADE C, HEAVY HEX GRADE DH IF GALVANIZED	
NUTS FOR BOLTS & RODS	A563, HEAVY HEX, GRADE A TYP, UNO GRADE DH IF GALVANIZED GRADE DH W/ F1554 GRADE 105 BOLTS	
ANCHOR BOLTS & RODS (HEADED OR THREADED & NUTTED)	F1554, CLASS 2A, S3 GRADE 36 TYP, UNO	Fy = 36ksi
	GRADE 55, S1 & S4	Fy = 55ksi
	GRADE 105, S4 & S5	Fy = 105ksi
WELDED HEADED STUDS, SHEAR STUDS, & WELDED THREADED STUDS	A108, GRADES 1010 - 1020	
DEFORMED BAR ANCHORS	A496	Fy = 75ksi
WELD FILLER METAL	AWS D1.1	Fy = 70ksi
TURNBUCKLES	F1145 & AISI C-1035	
CLEVISES, CLEVIS PINS, COTTER PINS	AISI C-1035	
EYENUTS & EYEBOLTS	AISI C-1030	
SLEEVE NUTS	AISI C-1018, GRADE 2	
RECESSED NUTS & PINS	A36	
COUPLING NUTS	AISI 12L14 CARBON STEEL	

3. EXPOSED INTERIOR STEEL SHALL RECEIVE ONE COAT OF PRIMER PAINT, UNO. DO NOT PAINT SURFACES IN DIRECT CONTACT WITH CONCRETE OR MASONRY, WHERE FIELD WELDING IS REQUIRED, WHERE FIRE-PROOFING IS REQUIRED OR CONTACT SURFACES OF STEEL-TO-STEEL, AND DECK-TO-STEEL CONNECTIONS. CONCEALED STEEL DOES NOT REQUIRE PAINT, UNO.
4. EXPOSED EXTERIOR STEEL & FASTENERS SHALL BE HOT DIP GALVANIZED, UNO. PROVIDE FILL AND VENT HOLES AT ENCLOSED SPACES OF HOLLOW PIECES. SEAL HOLES WATER-TIGHT AFTER GALVANIZING. PROVIDE DRAIN HOLES AS REQUIRED AT SOLID PIECES. HOLE SIZES AND LOCATIONS SHALL NOT DETRIMENTALLY AFFECT THE PIECES STRUCTURAL CAPACITY AND ARE SUBJECT TO THE STRUCTURAL ENGINEERS REVIEW.
5. EXPOSED STRUCTURAL STEEL MEMBERS AND CONNECTIONS VISIBLE TO THE PUBLIC AND BUILDING OCCUPANTS (OTHER THAN MAINTENANCE AREAS) SHALL MEET THE FOLLOWING CRITERIA:
   A. FABRICATION, HANDLING, AND SHIPPING SHALL EMPLOY SPECIAL CARE TO ENSURE ACCEPTABLE FINISHED APPEARANCE.
   B. WELDS SHALL BE GROUND SMOOTH. GROOVE WELDS SHALL BE MADE FLUSH (+ 1/16", -0"). OVERSIZE WELDS AS REQUIRED.
   C. FIELD-WELDING AIDS AND ERECTION AIDS SHALL BE REMOVED AND STEEL SHALL BE REPAIRED AND GROUND SMOOTH.
   D. SHOP PIECE MARKS AND MILL MARKS SHALL BE LOCATED SUCH THAT THEY ARE FULLY HIDDEN IN THE FINAL STRUCTURE OR ARE MADE WITH SUCH MEDIA TO PERMIT FULL REMOVAL AFTER ERECTION.
   E. GRIND EDGES OF SHEARED, PUNCHED OR FLAME CUT STEEL IN AREAS WITHIN REACH TO TOUCH BY THE PUBLIC AND BUILDING OCCUPANTS.
   F. ALIGN AND ORIENT BOLTED CONNECTIONS TO BE UNIFORM AND CONSISTENT.
6. PROVIDE CONCRETE / MASONRY COVER AT STEEL BELOW GRADE. STEEL EMBEDDED IN CONCRETE CAST AGAINST EARTH SHALL HAVE 3" MIN COVER. STEEL EMBEDDED IN FORMED CONCRETE OR MASONRY SHALL HAVE 2" MIN COVER.
7. WELDING MATERIALS & PROCEDURES SHALL CONFORM WITH AWS D1.1. AND AWS D1.8 WHERE APPLICABLE.
8. MINIMUM SIZE OF FILLET WELDS: 1/8" FOR MATERIAL 1/8" TO 1/4" THICK, 3/16" FOR MATERIAL OVER 1/4" TO 1/2" THICK, 1/4" FOR MATERIAL OVER 1/2" TO 3/4" THICK, AND 5/16" FOR MATERIAL OVER 3/4" THICK. MATERIAL THICKNESS IS FOR THINNER PART JOINED. SINGLE PASS WELDS MUST BE USED FOR SIZES SHOWN. SIZE OF WELD IS LEG DIMENSION OF FILLET. MINIMUM EFFECTIVE LENGTH OF FILLET WELDS SHALL BE NOT LESS THAN FOUR TIMES THE FILLET SIZE. MINIMUM EFFECTIVE LENGTH OF INTERMITTENT FILLET WELDS SHALL BE 1 1/2".
9. GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION WELDS, UNO. GROOVE WELDS SHALL BE TERMINATED AT THE END OF JOINTS IN A MANNER THAT WILL ENSURE SOUND WELDS. USE WELD TABS AND BACKING BARS ALIGNED TO PROVIDE AN EXTENSION OF THE JOINT PREPARATION. REMOVE EXTENSIONS UPON COMPLETION & COOLING OF THE WELD. GRIND ENDS OF THE WELD SMOOTH AND FLUSH WITH THE EDGES OF THE ABUTTING PARTS.
10. WHERE "ALL AROUND" FILLET WELDS ARE INDICATED AT CONCEALED/NON-EXPOSED SQUARE OR RECTANGULAR HSS CONNECTIONS TO PLATES, FILLET WELDS ARE NOT REQUIRED AT RADIUSED CORNERS , UNO.
11. BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL BE PLACED IN STANDARD SIZE HOLES, TYP UNO. BOLTS FOR STEEL-TO-CONCRETE/MASONRY CONNECTIONS SHALL BE PLACED IN ANCHOR ROD HOLES, TYP UNO. USE STANDARD AISC PITCH & GAGE FOR BOLTED CONNECTIONS, UNO.
12. BOLTS AND RODS SHALL BE CUT-THREAD TYPE WITH FULL DIAMETER BODY STYLE MEETING REQUIREMENTS OF ASME B18.2.1. THE BODY DIAMETER SHALL NOT BE LESS THAN THE MINIMUM MAJOR DIAMETER WHEN THREADS ARE CUT. REDUCED DIAMETER BODY STYLE ROLLED THREAD BOLTS OR RODS ARE NOT PERMITTED.
13. STEEL-TO-STEEL BOLTED CONNECTIONS SHALL BE ASSEMBLED UTILIZING HIGH-STRENGTH OR TWIST-OFF-TYPE TENSION CONTROL BOLT ASSEMBLIES, UNO. A BOLT ASSEMBLY CONSISTS OF A MINIMUM OF A BOLT, A HARDENED WASHER AND A NUT. THE HARDENED WASHER SHALL BE PLACED UNDER THE TURNED ELEMENT OF THE BOLT ASSEMBLY. ALSO PROVIDE A HARDENED WASHER AT BOLT HEADS OR NUTS BEARING ON SHORT SLOTTED HOLES. ALSO PROVIDE A 5/16" MINIMUM THICKNESS PLATE WASHER OR CONTINUOUS BAR WITH STD HOLES AT BOLT HEADS OR NUTS BEARING ON LONG SLOTTED HOLES.
14. IF DIRECT-TENSION-INDICATOR (DTI) WASHERS ARE USED, A "DTI" BOLT ASSEMBLY CONSISTS OF A MINIMUM OF A HIGH STRENGTH BOLT, A HARDENED WASHER, A "DTI" WASHER AND A NUT. INSTALL THE "DTI" WITH THE BUMPS FACING THE UNDERSIDE OF THE BOLT HEAD OR NUT. THE HARDENED WASHER SHALL BE PLACED UNDER THE TURNED ELEMENT OF THE "DTI" BOLT ASSEMBLY. IF THE "DTI" IS PLACED UNDER THE TURNED ELEMENT OF THE BOLT ASSEMBLY, PLACE THE HARDENED WASHER BETWEEN THE "DTI" AND THE TURNED ELEMENT. ALSO PROVIDE A HARDENED WASHER AT "DTI"s, BOLT HEADS OR NUTS BEARING ON OVERSIZE OR SHORT SLOTTED HOLES. ALSO PROVIDE A 5/16" MINIMUM THICKNESS PLATE WASHER OR CONTINUOUS BAR W/ STD HOLES AT "DTI"s, BOLT HEADS OR NUTS BEARING ON LONG SLOTTED HOLES.
15. BOLT HEADS, NUTS OR "DTI"S OF BOLTED STEEL-TO-STEEL AND STEEL-TO-CONCRETE/ MASONRY CONNECTIONS BEARING ON SLOPING SURFACES SHALL USE A BEVELED HARDENED WASHER IN THE BOLT ASSEMBLY AT THAT SURFACE.
16. HIGH-STRENGTH BOLT ASSEMBLIES SHALL BE PRE-TENSIONED. FAYING SURFACES OF HIGH-STRENGTH BOLT ASSEMBLIES SHALL BE PREPARED AS REQUIRED FOR CLASS A OR BETTER SLIP-CRITICAL JOINTS.

DRAFT

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AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER
GARDEN E. HUNTINGTON
No. S4780
STRUCTURAL
STATE OF CALIFORNIA
08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
TYPICAL NOTES

SHEET
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INTERNALLY THREADED SCREW ANCHOR

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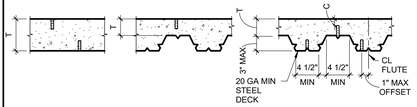
1. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO. ALL EMBEDMENTS SPECIFIED ARE NOMINAL EMBEDMENT DEPTHS REQUIRED.

"DEWALT" SNAKE+ INSTALLED IN
NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)
(ICC REPORT ESR 2272)

	GENERAL CONCRETE & TOPSIDE OF CONC O/ STL DECK				UNDERSIDE OF CONC OVER STEEL DECK LOWER FLUTE				UNDERSIDE OF CONC OVER STEEL DECK UPPER FLUTE			
ANCHOR DIA	3/8"	1/2"*			3/8"	1/2"			3/8"	1/2"		
STD EMBED, Hnom TYP UNO	1 5/8"	2 3/16"			1 5/8"	2 3/16"			1 5/8"	2 3/16"		
MIN CONC THICKNESS, T	4**	4"			SEE DIAGRAM BELOW T = 3" MIN IN LOWER FLUTE C = 1" MIN							
MAX INSTALLATION TORQUE (LB-FT)	8	36			8	36			8	36		
TORQUE TEST LOAD (LB-FT)	4	18			4	18			4	18		

* T= 3 1/4" AT TOPSIDE OF CONC O/ STEEL DECK
** 1/2" DIA ANCHORS NOT PERMITTED IN THE TOPSIDE OF CONC O/ STL DECK



GENERAL CONC | TOPSIDE OF CONC O/ STEEL DECK | UNDERSIDE OF CONC O/ STEEL DECK

ADHESIVE ANCHORS IN CONCRETE

S- 056000_N005A
190805. Q2

1. REFERENCES TO "EPOXY" OR "CHEMICAL" ANCHORS EMBEDDED IN CONCRETE SHALL REFER TO THESE NOTES.
2. ACCEPTABLE ADHESIVE PRODUCTS ARE:
   - "HILTI" HIT-RE 500 V3 (ICC ESR-3814)
   - "HILTI" HIT-HY-200 (ICC ESR-3187)
   - "SIMPSON" SET-XP (ICC ESR-2508)
   - "SIMPSON" SET-3G (ICC ESR-4057)
   - "SIMPSON" AT-XP (IAPMO ER-263)
   - "DEWALT" PURE 110+ (ICC ESR-3298)
   - "DEWALT" AC200+ GOLD (ICC ER-4027)
3. THREADED ROD AND REBAR USED W/ ADHESIVE ANCHORS SHALL MEET THE REQUIREMENTS OF THE EVALUATION AGENCY REPORT.
4. EMBEDMENT DEPTHS SHALL BE 8 TIMES THE NOMINAL DIAMETER OF ANCHOR, UNO.
5. CONCRETE SHALL MEET THE SPECIFIED DESIGN STRENGTH PRIOR TO INSTALLATION, AND SHALL HAVE A MINIMUM AGE OF 21 DAYS, UNO.
6. TEST LOADS SHALL BE AS INDICATED IN DRAWINGS. IF NO TEST LOAD IS SPECIFIED, TEST LOAD SHALL BE 1000 LBS.

SCREW ANCHORS IN CONCRETE

S- 056000_N004A
181128. Q2

1. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO. ALL EMBEDMENTS SPECIFIED ARE NOMINAL EMBEDMENT DEPTHS REQUIRED.

"HILTI" KWIK HUS-EZ (KH-EZ) / KWIK HUS-EZ1 (KH-EZ1) INSTALLED IN
NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)
(ICC REPORT ESR 3027)

	GENERAL CONCRETE & TOPSIDE OF CONC O/ STL DECK					UNDERSIDE OF CONC OVER STEEL DECK LOWER FLUTE			UNDERSIDE OF CONC OVER STEEL DECK UPPER FLUTE		
ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"
STD EMBED, Hnom TYP UNO	1 5/8"	1 5/8"	3"	5"	6 1/4"	1 5/8"	2 1/2"	3"	1 5/8"	1 5/8"	2 1/4"
MIN CONC THICKNESS, T	* 3 1/4"	3 1/4"	4 3/4"	7"	8 1/4"	SEE DIAGRAM BELOW T = 3 1/4" MIN, C = 1 1/4" MIN					
MAX INSTALLATION TORQUE (LB-FT)	18	40	45	85	115	18	40	45	18	40	45
TORQUE TEST LOAD (LB-FT)	9	20	23	43	58	9	20	23	9	20	23

* T= 2 1/2" AT TOPSIDE OF CONC O/ STEEL DECK

"SIMPSON" TITEN HD INSTALLED IN
NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)
(ICC REPORT ESR 2713)

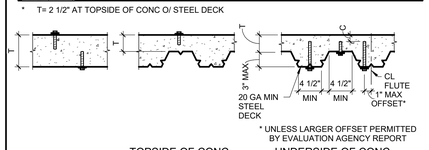
	GENERAL CONCRETE & TOPSIDE OF CONC O/ STL DECK					UNDERSIDE OF CONC OVER STEEL DECK LOWER FLUTE			UNDERSIDE OF CONC OVER STEEL DECK UPPER FLUTE		
ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"
STD EMBED, Hnom TYP UNO	1 5/8"	2 1/2"	3 1/4"	4"	5 1/2"	1 5/8"	2 1/2"	3 1/2"	1 5/8"	1 7/8"	2"
MIN CONC THICKNESS, T	3 1/4"	* 4"	5"	6"	8 3/4"	SEE DIAGRAM BELOW T = 1 1/2" MIN IN LOWER FLUTE T = 3 1/4" MIN IN UPPER FLUTE C = 3/4" MIN					
MAX INSTALLATION TORQUE (LB-FT)	24	50	65	100	150	24	50	65	24	50	65
TORQUE TEST LOAD (LB-FT)	12	25	33	50	75	12	25	33	12	25	33

* T= 3 1/4" AT TOPSIDE OF CONC O/ STEEL DECK

"DEWALT" SCREWBOLT+ INSTALLED IN
NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)
(ICC REPORT ESR 3889)

	GENERAL CONCRETE & TOPSIDE OF CONC O/ STL DECK					UNDERSIDE OF CONC OVER STEEL DECK LOWER FLUTE			UNDERSIDE OF CONC OVER STEEL DECK UPPER FLUTE		
ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"	3/8"	1/2"	5/8"		3/8"	1/2"
STD EMBED, Hnom TYP UNO	1 5/8"	2"	3"	4"	4 1/4"	2"	3"	4"		2"	2 1/2"
MIN CONC THICKNESS, T	3 1/4"*	3 1/2"*	5 1/4"	6"	6"	SEE DIAGRAM BELOW T = 2 1/2" MIN IN LOWER FLUTE T = 3 1/4" MIN IN UPPER FLUTE C = 3/4" MIN					
MAX INSTALLATION TORQUE (LB-FT)	19	25	45	60	70	25	45	60		25	45
TORQUE TEST LOAD (LB-FT)	9	12	25	30	35	12	25	30		12	25

* T= 2 1/2" AT TOPSIDE OF CONC O/ STEEL DECK



* UNLESS LARGER OFFSET PERMITTED BY EVALUATION AGENCY REPORT

GENERAL CONC | TOPSIDE OF CONC O/ STEEL DECK | UNDERSIDE OF CONC O/ STEEL DECK

EXPANSION ANCHORS IN CONCRETE

S- 056000_N003A
210729. Q2

1. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO. ALL EMBEDMENTS SPECIFIED ARE NOMINAL EMBEDMENT DEPTHS. REFER TO EVALUATION AGENCY REPORT FOR EFFECTIVE EMBEDMENTS.

"HILTI" KWIK BOLT-TZ2 INSTALLED IN
NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)
(ICC REPORT ESR 4266)

	GENERAL CONCRETE & TOPSIDE OF CONC O/ STEEL DECK				UNDERSIDE OF CONC O/ STEEL DECK			
ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"	1/4"	3/8"	1/2"	5/8"
STD EMBED, Hnom TYP UNO	1 3/4"	2 1/2"	** 3 3/4"	4 1/2"	5 1/2"	1 3/4"	2 1/2"	3 3/4"	4 1/2"
MIN CONC THICKNESS, T	* 3 1/4"	* 4"	* 5 1/2"	6"	8"	SEE DIAGRAM BELOW T = 2 1/2" MIN, C = 5/8" MIN			
CARBON STEEL TORQUE TEST LOAD (LB-FT)	4	30	50	40	110	4	30	50	40
STAINLESS STEEL TORQUE TEST LOAD (LB-FT)	6	30	40	60	125	6	30	40	60

* T = 2 1/2" MIN AT TOPSIDE OF CONC O/ STEEL DECK
** STD EMBED = 2 1/2" W/ T = 3 1/4" MIN AT TOPSIDE OF CONC O/ STEEL DECK
*** FOR ANCHORS AT TOPSIDE OR UNDERSIDE OF CONC O/ STEEL DECK ONLY CARBON STEEL ANCHORS ARE ALLOWED, DO NOT USE STAINLESS STEEL ANCHORS.

"SIMPSON" STRONG-BOLT 2 INSTALLED IN
NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)
(ICC REPORT ESR 3037)

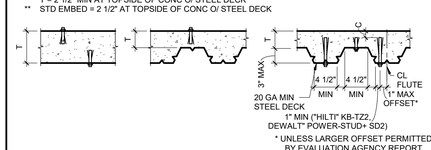
	GENERAL CONCRETE & TOPSIDE OF CONC O/ STEEL DECK				UNDERSIDE OF CONC O/ STEEL DECK			
ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"	3/8"	1/2"	5/8"	
STD EMBED, Hnom TYP UNO	1 3/4"	1 7/8"	**3 7/8"	3 3/8"	4 1/8"	2"	2 3/4"	3 3/8"	
MIN CONC THICKNESS, T	3 1/4"	* 4"	* 5"	5 1/2"	6 3/4"	SEE DIAGRAM BELOW T = 1 1/2" MIN, C = 1/2" MIN			
TORQUE TEST LOAD (LB-FT)	4	30	60	90	150	30	60	90	

* T = 3 1/4" MIN AT TOPSIDE OF CONC O/ STEEL DECK
** STD EMBED = 2 3/4" AT TOPSIDE OF CONC O/ STEEL DECK

"DEWALT" POWER-STUD+ SD2 INSTALLED IN
NORMAL WEIGHT OR LIGHT WEIGHT CONCRETE (f'c = 3000 PSI MIN)
(ICC REPORT ESR 2502)

	GENERAL CONCRETE & TOPSIDE OF CONC O/ STEEL DECK				UNDERSIDE OF CONC O/ STEEL DECK			
ANCHOR DIA		3/8"	1/2"	5/8"	3/4"	3/8"	1/2"	5/8"	3/4"
STD EMBED, Hnom TYP UNO		**2 3/8"	**3 3/4"	4 7/8"	5 3/4"	2 3/8"	2 1/2"	3 5/8"	4 1/2"
MIN CONC THICKNESS, T		* 4"	*5 3/4"	6 1/2"	10"	SEE DIAGRAM BELOW T = 3 1/4" MIN, C = 3/4" MIN			
TORQUE TEST LOAD (LB-FT)		20	40	60	110	25	40	60	110

* T = 2 1/2" MIN AT TOPSIDE OF CONC O/ STEEL DECK
** STD EMBED = 2 1/2" AT TOPSIDE OF CONC O/ STEEL DECK



* UNLESS LARGER OFFSET PERMITTED BY EVALUATION AGENCY REPORT

GENERAL CONC | TOPSIDE OF CONC O/ STEEL DECK | UNDERSIDE OF CONC O/ STEEL DECK

POST INSTALLED ANCHORS

S- 056000_N002A
170127. Q2

THESE NOTES SHALL APPLY TO THE INSTALLATION, INSPECTION, AND TESTING OF EXPANSION, ADHESIVE, AND SCREW ANCHORS. USE SPECIFIC PRODUCTS WHERE INDICATED. IF A SPECIFIC PRODUCT / MANUFACTURER IS NOT NOTED, SELECT ANCHOR FROM THE PROVIDED TABLES BASED ON ANCHOR TYPE, DIAMETER AND BASE MATERIAL. POST-INSTALLED ANCHORS / REINFORCING ARE NOT PERMITTED TO REPLACE CAST-IN ANCHORS/REINFORCING UNLESS SPECIFICALLY NOTED.

INSTALLATION
1. INSTALL PER REQUIREMENTS OF THE EVALUATION AGENCY REPORT & MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS FOR THE SPECIFIC ANCHOR.
2. INSTALLATION OF ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS (AS SPECIFICALLY NOTED ON DETAILS) SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE A WRITTEN TEST AND PERFORMANCE TEST IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT. CERTIFICATION PROGRAM SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
3. ANCHOR INSTALLATION SHALL MEET THE MINIMUM EMBEDMENT, EDGE DISTANCE, SPACING, AND BASE MATERIAL THICKNESS CRITERIA ESTABLISHED BY THE RELEVANT EVALUATION AGENCY REPORT & MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
4. ANCHOR INSTALLATION & CURE TEMPERATURES SHALL FOLLOW EVALUATION AGENCY REPORT & MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
5. WHEN INSTALLING ANCHORS IN CONCRETE OR MASONRY, DO NOT DAMAGE REINFORCING (REBAR AND/OR PRE/POST TENSIONED STRANDS). LOCATE ALL REINFORCING AT AFFECTED AREAS USING NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING ANCHORS. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN THE REINFORCEMENT AND THE ANCHOR.

INSPECTION
1. PROVIDE SPECIAL INSPECTION AS REQUIRED BY THE EVALUATION AGENCY REPORT AND ENFORCEMENT AGENCY. WHERE EVALUATION AGENCY REPORT PERMITS EITHER PERIODIC OR CONTINUOUS INSPECTION, USE PERIODIC.
2. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS (AS SPECIFICALLY NOTED ON DETAILS) SHALL BE CONTINUOUSLY INSPECTED BY AN INSPECTOR SPECIALLY APPROVED FOR THAT PURPOSE BY THE ENFORCEMENT AGENCY.

TESTING
1. TEST ANCHORS IN ACCORDANCE WITH THE EVALUATION AGENCY REPORT AND ENFORCEMENT AGENCY REQUIREMENTS FOR THE SPECIFIC ANCHOR AND IN ACCORDANCE WITH THE FREQUENCIES AND TEST METHODS LISTED BELOW.
2. TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY AND STRUCTURAL ENGINEER.
3. REACTION LOADS FROM TEST FIXTURE(S) MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED BY THE FIXTURE(S) FROM WITHDRAWING.
4. TEST METHOD SHALL BE AS NOTED FOR SPECIFIC ANCHOR TYPES AND THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:
   - HYDRAULIC RAM METHOD (TENSION TESTING): THE ANCHOR SHALL MAINTAIN THE TEST LOAD FOR 15 SECONDS AND SHALL HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WASHER UNDER THE NUT BECOMES LOOSE.
   - TORQUE WRENCH METHOD (TORQUE TESTING):
     - THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:
     - ONE-HALF (1/2) TURN OF THE NUT, TYP UNO.
     - ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/8" SLEEVE ANCHOR ONLY.
     - ONE-QUARTER (1/4) TURN OF THE SCREW AFTER INITIAL SEATING OF THE SCREW HEAD FOR SCREW ANCHORS.
5. TESTING FREQUENCIES SHALL BE AS INDICATED IN THE TABLE BELOW. WHEN MULTIPLE ANCHORS ARE USED IN A SINGLE GROUP OR CONNECTION, THE PERCENT OF ANCHORS TESTED AT EACH LOCATION SHALL BE AS INDICATED BELOW.
6. IF ANY ANCHOR FAILS TESTING, ALL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED SHALL BE TESTED UNTIL 10 CONSECUTIVE ANCHORS PASS, THEN THE INITIAL TESTING FREQUENCY SHALL BE RESUMED.

TESTING FREQUENCY

APPLICATION	PERCENT OF ALL ANCHORS
SILL PLATE BOLTING AND REBAR AT SLAB ON GRADE, UNO	5 PERCENT
STRUCTURAL EXCLUDING SILL PLATE BOLTING	50 PERCENT
NON-STRUCTURAL INCLUDING EQUIPMENT ANCHORAGE	25 PERCENT

ADHESIVE ANCHORS IN MASONRY

S- 056000_N008A
181001. Q2

1. REFERENCES TO "EPOXY" OR "CHEMICAL" ANCHORS EMBEDDED IN MASONRY SHALL REFER TO THESE NOTES.
2. THREADED ROD AND REBAR USED W/ ADHESIVE ANCHORS SHALL MEET THE REQUIREMENTS OF THE EVALUATION AGENCY REPORT.
3. WHEN REBAR IS EMBEDDED USING AN ADHESIVE, ANCHOR DIA SHALL BE THE NOMINAL BAR DIAMETER.
4. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO.

ATR & REBAR WITH "HILTI" HIT HY-270 INSTALLED IN
GROUT FILLED CONCRETE MASONRY (f'm = 1500 PSI MIN)
(ICC REPORT ESR 4143)

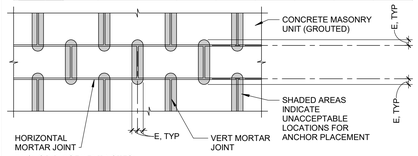
	IN FACE OF WALL (E= 0" ANCHORS MAY BE INSTALLED IN VERTICAL MORTAR JOINTS)					IN TOP OF WALL (INSTALL IN GROUT ONLY)		
ANCHOR DIA		3/8"	1/2"	5/8"	3/4"	1/2"	5/8"	
STD EMBED, Hnom (Hef = Hnom)		3 3/8"	4 1/2"	5 5/8"	6 3/4"	4 1/2"	5 5/8"	
TENSION TEST LOAD (LBS)		2480	4070	5680	7620	3250	3180	

ATR & REBAR WITH "SIMPSON" SET-XP INSTALLED IN
GROUT FILLED CONCRETE MASONRY (f'm = 1500 PSI MIN)
(IAPMO REPORT ER 265)

	IN FACE OF WALL (E = 1 1/2")					IN TOP OF WALL (INSTALL IN GROUT ONLY)		
ANCHOR DIA		3/8"	1/2"	5/8"	3/4"	1/2"	5/8"	7/8"
STD EMBED, Hnom (Hef = Hnom)		3 3/8"	4 1/2"	5 5/8"	6 3/4"	4 1/2"	5 5/8"	7 7/8"
TENSION TEST LOAD (LBS)		2980	3650	3790	3790	2970	3400	3220

ATR & REBAR WITH "DEWALT" AC100+ GOLD INSTALLED IN
GROUT FILLED CONCRETE MASONRY (f'm = 1500 PSI MIN)
(ICC REPORT ESR 3200)

	IN FACE OF WALL (E= 1 1/2")					IN TOP OF WALL (INSTALL IN GROUT ONLY)		
ANCHOR DIA		3/8"	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
STD EMBED, Hnom (Hef = Hnom)		3"	4"	5"	6"	4"	5"	6"
TENSION TEST LOAD (LBS)		1230	1920	2190	2320	1040	1490	2520



ANCHOR PLACEMENT NOTES:
1. ANCHORS MUST BE INSTALLED A MINIMUM DISTANCE, E, FROM ANY VERTICAL MORTAR JOINT AS SHOWN.
2. ANCHOR LOCATIONS ARE LIMITED TO ONE PER MASONRY CELL WITH A MINIMUM SPACING OF 8" ON CENTER.

SCREW ANCHORS IN MASONRY

Q1

1. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO.

"HILTI" HUS-EZ (KH-EZ) INSTALLED IN
GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN)
(ICC REPORT ESR 3056)

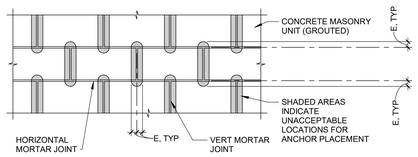
	IN FACE OF WALL (E = 1 1/4")					IN TOP OF WALL		
ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"		1/2"	5/8"
STD EMBED TYP UNO	1 5/8"	1 5/8"	2 1/4"	3 1/4"	4"		4 1/4"	5"

"SIMPSON" TITEN HD INSTALLED IN
GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN)
(ICC REPORT ESR 1056)

	IN FACE OF WALL (E = 1 1/4")					IN TOP OF WALL		
ANCHOR DIA		3/8"	1/2"	5/8"	3/4"		1/2"	5/8"
STD EMBED TYP UNO		2 3/4"	3 1/2"	4 1/2"	5 1/2"		4 1/2"	4 1/2"

"DEWALT" SCREWBOLT+ INSTALLED IN
GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN)
(ICC REPORT ESR 4042)

	IN FACE OF WALL (E = 1 1/4")					IN TOP OF WALL		
ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"	1/2"	5/8"	3/4"
STD EMBED TYP UNO	1 5/8"	2"	2 1/2"	3 1/4"	4"	4 1/4"	5"	6 1/4"



ANCHOR PLACEMENT NOTES:
1. ANCHORS MUST BE INSTALLED A MINIMUM DISTANCE, E, FROM ANY VERTICAL MORTAR JOINT AS SHOWN.

EXPANSION ANCHORS IN MASONRY

S- 056000_N006A
170127. Q2

1. EMBEDMENT SHALL BE AS INDICATED IN THE TABLE BELOW, TYP UNO.

"HILTI" KWIK BOLT TZ2 INSTALLED IN
GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN)
(ICC REPORT ESR 4561)

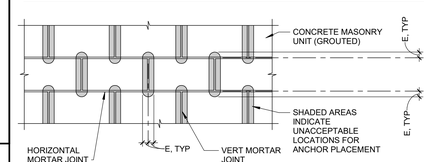
	IN FACE OF WALL (E = 1 3/8")					IN TOP OF WALL		
ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"	3/8"	1/2"	5/8"
STD EMBED (h_{nom}) TYP UNO	1 3/4"	3"	3 3/4"	4 1/2"	5 1/2"	3"	3 3/4"	4 1/2"
TORQUE TEST LOAD (LB-FT)	4	15	25	30	50	15	25	30
TORQUE TEST LOAD STAINLESS STEEL (LB-FT)	6	15	25	35	50	15	25	35

"SIMPSON" STRONG-BOLT 2 INSTALLED IN
GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN)
(IAPMO REPORT ER 240)

	IN FACE OF WALL (E = 1 1/4")					IN TOP OF WALL		
ANCHOR DIA	1/4"	3/8"	1/2"	5/8"	3/4"		1/2"	5/8"
STD EMBED TYP UNO	1 3/4"	2 5/8"	3 1/2"	4 3/8"	5 1/4"		3 1/2"	4 3/8"
TORQUE TEST LOAD (LB-FT)	4	20	35	55	100		35	55

"DEWALT" POWER-STUD+ SD1 INSTALLED IN
GROUT-FILLED MASONRY WALLS (f'm = 1500 PSI MIN)
(ICC REPORT ESR 2966)

	IN FACE OF WALL (E = 1 3/8")					IN TOP OF WALL		
ANCHOR DIA		3/8"	1/2"	5/8"		3/8"	1/2"	5/8"
STD EMBED TYP UNO		2 3/8"	2 1/2"	3 3/8"		2 3/8"	2 1/2"	3 3/8"
TORQUE TEST LOAD (LB-FT)		20	40	50		20	40	50



ANCHOR PLACEMENT NOTES:
1. ANCHORS MUST BE INSTALLED A MINIMUM DISTANCE, E, FROM ANY VERTICAL MORTAR JOINT AS SHOWN.
2. ANCHOR LOCATIONS ARE LIMITED TO ONE PER MASONRY CELL WITH A MINIMUM SPACING OF 8" ON CENTER.

POWER ACTUATED FASTENERS

S- 056000_N001A
190225. Q2

1. POWER ACTUATED FASTENERS SHALL BE "HILTI" X-U (ICC ESR 2269), "SIMPSON" PDPA (ICC ESR 2138), OR "DEWALT" POWER DRIVEN FASTENERS (ICC ESR 2024), TYP UNO.
2. INSTALLATION OF FASTENERS SHALL BE IN ACCORDANCE WITH THE EVALUATION AGENCY REPORT. INSTALL FASTENERS WITH SUFFICIENT EDGE DISTANCE AND SPACING TO ACHIEVE FULL CAPACITY, UNO.
3. FASTENERS TO CONCRETE OR MASONRY SHALL HAVE 1" MIN EMBEDMENT (1 1/4" MIN FOR "SIMPSON" PDPA IN MASONRY), TYP UNO.
4. FASTENERS TO STRUCTURAL STEEL SHALL HAVE MIN EMBEDMENT TO STEEL PER MANUFACTURER, TYP UNO.
5. FASTENERS MAY NOT BE USED FOR TENSION LOADS EXCEPT FOR THE FOLLOW CONDITIONS:
   - VERTICAL SUSPENSION WIRES FOR ACOUSTICAL TILE OR LAY-IN CEILINGS
   - VERTICAL SUPPORTS OF MECH DUCTS, CONDUITS, ETC WHERE THE SERVICE LOAD ON EACH ANCHOR DOES NOT EXCEED 90 LBS FOR FASTENERS IN CONCRETE OR 250 LBS FOR FASTENERS IN STRUCTURAL STEEL.
   - FASTENERS ARE NOT PERMITTED AT SEISMIC BRACING ATTACHMENTS.
6. WHEN INSTALLING FASTENERS IN PRE/POST-TENSIONED CONCRETE DO NOT DAMAGE STRANDS. LOCATE STRANDS AT AFFECTED AREAS USING NON-DESTRUCTIVE MEANS PRIOR TO INSTALLING FASTENERS. MAINTAIN A MINIMUM CLEARANCE OF 2" BETWEEN THE STRANDS AND THE FASTENERS.

Draft

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08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
TYPICAL NOTES

SHEET
S-013

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SEISMIC

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200615. Q2

SEISMIC REQUIREMENTS (SECTION 1704.3.2)

1. DESCRIPTION OF SEISMIC-FORCE-RESISTING SYSTEM AND DESIGNATED SEISMIC SYSTEMS SUBJECT TO SPECIAL INSPECTIONS AS PER SECTION 1705.12 AND 1705.13:

   BEARING WALL SYSTEM - SPECIAL REINFORCED MASONRY SHEAR WALLS, R=5

2. THE EXTENT OF THE SEISMIC-FORCE-RESISTING SYSTEM IS DEFINED IN MORE DETAIL IN THE CONSTRUCTION DOCUMENTS.

SPECIAL INSPECTION FOR SEISMIC RESISTANCE

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
1. ■ SPECIAL INSPECTION OF STRUCTURAL STEEL ELEMENTS IN THE SEISMIC-FORCE -RESISTING SYSTEM IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341.	X	---		1705.13.1
2. STRUCTURAL WOOD				
□ INSPECT FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM.	X	---		
□ INSPECT NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC FORCE-RESISTING SYSTEM,INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, COLLECTORS (DRAG STRUTS), BRACES, SHEAR PANELS AND HOLD-DOWNS.	---	X	---	1705.13.2
3. COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION				
□ WELDING OF ELEMENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM.	---	X		
□ INSPECTION OF SCREW ATTACHMENTS, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.	---	X	---	1705.13.3
4. STORAGE RACKS AND ACCESS FLOORS				
□ ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT AND ACCESS FLOORS.	---	X	---	1705.13.7
5. ARCHITECTURAL COMPONENTS				
□ INSPECT ERECTION AND FASTENING OF EXTERIOR CLADDING WEIGHING MORE THAN 5 PSF AND HIGHER THAN 30 FEET ABOVE GRADE OR WALKING SURFACE.	---	X		
□ INSPECT ERECTION AND FASTENING OF VENEER WEIGHING MORE THAN 5 PSF AND HIGHER THAN 30 FEET ABOVE GRADE OR WALKING SURFACE.	---	X		
□ INSPECT ERECTION AND FASTENING OF ALL EXTERIOR NON-BEARING WALLS HIGHER THAN 30 FEET ABOVE GRADE OR WALKING SURFACE.	---	X	---	1705.13.5
□ INSPECT ERECTION AND FASTENING OF ALL INTERIOR NON-BEARING WALLS WEIGHING MORE THAN 15 PSF AND HIGHER THAN 30 FEET ABOVE GRADE OR WALKING SURFACE.	---	X		
6. MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS				
■ INSPECT ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY OR STAND-BY POWER SYSTEMS.	---	X		
■ INSPECT ANCHORAGE OF NON-EMERGENCY ELECTRICAL EQUIPMENT.	---	X		
■ INSPECT INSTALLATION OF PIPING SYSTEMS AND ASSOCIATED MECHANICAL UNITS CARRYING FLAMMABLE, COMBUSTIBLE, OR HIGHLY TOXIC CONTENTS.	---	X	---	1705.13.6
□ INSPECT INSTALLATION OF HVAC DUCTWORK THAT CONTAINS HAZARDOUS MATERIALS.	---	X		
■ INSPECT INSTALLATION OF VIBRATION ISOLATION SYSTEMS WHERE REQUIRED BY SECTION 1705.12.6.5.	---	X		
■ INSPECT THE MECHANICAL AND ELECTRICAL EQUIPMENT, INCLUDING DUCT WORK, PIPING SYSTEMS, AND THEIR STRUCTURAL SUPPORTS, WHERE AUTOMATIC FIRE SPRINKLER SYSTEMS ARE INSTALLED. VERIFY MINIMUM AND NOMINAL CLEARANCE UNLESS FLEXIBLE SPRINKLER FITTINGS ARE USED.				
7. ■ VERIFY THAT THE EQUIPMENT LABEL AND ANCHORAGE OR MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE WHEN MECHANICAL AND ELECTRICAL EQUIPMENT MUST BE SEISMICALLY QUALIFIED.	---	---	---	1705.13.4
8. □ SEISMIC ISOLATION SYSTEM: INSPECTION OF ISOLATION SYSTEM PER ASCE 7 - SECTION 17.8.	---	X	---	1705.13.8
9. ■ OBTAIN MILL CERTIFICATES FOR REINFORCING STEEL, VERIFY COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS, AND VERIFY STEEL SUPPLIED CORRESPONDS TO CERTIFICATE.	---	---	---	1704.5
10. □ STRUCTURAL STEEL: INVOKE THE QAP QUALITY ASSURANCE REQUIREMENTS IN AISC 341.	---	---	---	1705.13.1
11. ■ OBTAIN CERTIFICATE THAT EQUIPMENT HAS BEEN SEISMICALLY QUALIFIED.	---	---	---	1704.5
12. ■ OBTAIN SYSTEM TESTS AS REQUIRED BY ASCE 7 SECTION 17.8.	---	---	---	

SOIL

WS- 000000 N000A
180625. Q2

REQUIRED VERIFICATION AND INSPECTION OF SOIL

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
1. ■ VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIRED BEARING CAPACITY.	---	X	---	TABLE 1705.6
2. ■ VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X		
3. ■ PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X		
4. ■ VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---		
5. ■ PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X		

SPRAYED FIRE-RESISTANT MATERIALS

WS- 000000 N000A
180625. Q2

INSPECTION OF SPRAYED FIRE-RESISTANT MATERIALS

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
PHYSICAL AND VISUAL TESTS				
1. CONDITION OF SUBSTRATES:				
■ INSPECT SURFACE FOR ACCORDANCE WITH THE APPROVED FIRE-RESISTANCE DESIGN AND THE APPROVED MANUFACTURER'S WRITTEN INSTRUCTIONS.	---	---		1705.15.2
■ VERIFY MINIMUM AMBIENT TEMPERATURE BEFORE AND AFTER APPLICATION.	---	X		1705.15.3
■ VERIFY VENTILATION OF AREA DURING AND AFTER APPLICATION.	---	X		1705.15.3
2. ■ MEASURE AVERAGE THICKNESS.	---	---	ASTM E605	1705.15.4
3. ■ VERIFY DENSITY OF MATERIAL FOR CONFORMANCE WITH THE APPROVED FIRE-RESISTANT DESIGN.	---	---	ASTM E605	1705.15.5
4. ■ TEST COHESIVE/ADHESIVE BOND STRENGTH.	---	---		1705.15.6
5. ■ CONDITION OF FINISHED APPLICATION.				1705.15.1

MISCELLANEOUS FIRE

WS- 000000 N000A
180625. Q2

VERIFICATION AND INSPECTION OF MISCELLANEOUS (FIRE)

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
1. □ MASTIC AND INTUMESCENT FIRE RESISTANT COATING.	---	---	---	1705.16
2. □ EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS). WATER-RESISTIVE BARRIER COATING WHEN INSTALLED OVER A SHEATHING SUBSTRATE.	---	---	---	1705.17
3. ■ FIRE RESISTANT PENETRATIONS AND JOINTS.	---	---	---	1705.18
4. ■ SMOKE CONTROL SYSTEM.	---	---		1705.19

CONCRETE

WS- 000000 N000A
200615. Q2

INSPECTION OF CONCRETE

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
1. ■ INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS AND PLACEMENT.	---	X	ACI 318, CH 20, 25.2, 25.3, 26.6.6.1-26.6.3	--
2. ■ INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.3.	---	x	AWS D1.4 ACI 318 26.6.4	---
3. ■ INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE	---	X	ACI 318 17.8.2	
4. ■ INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.	X	---	ACI 318 17.8.2.4, 17.8.2	
5. ■ VERIFYING USE OF REQUIRED DESIGN MIX.	---	X	ACI 318 CH19 26.4.3, 26.4.4	1904.1, 1904.2
6. ■ AT TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	ASTM C 172 ASTM C 31 ACI 318 26.5, 26.12	--
7. ■ INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	---	ACI 318 26.5	--
8. ■ INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X	ACI 318 26.5.3-26.5.5	--
9. INSPECTION OF PRESTRESSED CONCRETE:				
□ APPLICATION OF PRESTRESSING FORCES.	X	---	ACI 318 26.10	---
□ GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC FORCE-RESISTING SYSTEM.	X	---	ACI 318 26.10	
10. □ ERECTION OF PRECAST CONCRETE MEMBERS.	---	X	ACI 318 26.9	---
11 □ VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X	ACI 318 26.11.2	---
12. ■ INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X	ACI 318 26.11.1.2(b)	---

MASONRY

WS- 000000 N000A
200615. Q2

INSPECTION OF LEVEL 2 MASONRY

INSPECTION TASK	C[a][b]	P[a]	TMS 402	TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
■ PROPORTIONS OF SITE-PREPARED MORTAR.	X	---		ART 2.1, 2.6 A, & 2.6 C
□ GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES.	X	---		ART. 2.4 B, 2.4 H
■ GRADE, TYPE, AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES.			SEC 6.1	ART 3.4 & 3.6 C
□ PRESTRESSING TECHNIQUE.	X	---	---	ART 3.6 B
□ PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X[b]	X[c]	---	ART 2.1 C.1
■ SAMPLE PANEL CONSTRUCTION	X	---	---	ART 1.6 D
2. PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
■ GROUT SPACE.	X	---	---	ART 3.2 D & 3.2 F
□ PLACEMENT OF PRESTRESSING TENDONS & ANCHORAGE	X	---	SEC 10.8 & 10.9	ART 2.4 & 3.6
■ PLACEMENT OF REINFORCEMENT, CONNECTORS AND ANCHOR BOLTS.	X	---	SEC 6.1, 6.3.1, 6.3.6, & 6.3.7	ART 3.2 E & 3.4
□ PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS.	X	---	---	ART 2.6 B & 2.4 G.1.b
3. VERIFY THE COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:				
■ MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	X	---	---	ART 1.5
■ PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	X	---	---	ART 3.3 B
■ SIZE AND LOCATION OF STRUCTURAL MEMBERS.	X	---	---	ART 3.3 F
■ TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.			SEC 1.2.2 (e) 1.16.1	---
■ WELDING OF REINFORCING.			SEC 6.1.6.1.2	---
■ PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40 DEGREES F (4.4 DEG C)) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F(32.2 DEG C)).	X	---	---	ART. 1.8 C, 1.8 D
□ APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	---	X	---	ART 3.6 B
□ PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE.	---	X	---	ART 3.5, 3.6C
□ PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.	X[b]	X[c]	---	ART 3.3B.9 & 3.3 G.1.b
4. ■ OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	X	---	---	ART 1.4 B.2.a.3, 1.4 B.2.b.3 1.4 B.2.c.3 1.4 B.3, & 1.4 B.4
VERIFICATION AND INSPECTION	C[a][b]	P[a]	TMS 402	TMS 602
1. ■ COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED.	X	---	---	ART. 1.5
2. ■ VERIFICATION OF F'M AND F'AAC PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS CODE.	X	---	---	ART. 1.4B
3. ■ VERIFICATION OF SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF CONSOLIDATING GROUT.	---	X	---	ART. 1.5B.1.B.3

NOTES:
a. FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE. NR = NOT REQUIRED, P = PERIODIC, C = CONTINUOUS
b. REQUIRED FOR THE FIRST 5000 SQUARE FEET OF AAC MASONRY.
c. REQUIRED AFTER THE FIRST 5000 SQUARE FEET OF AAC MASONRY.

STEEL

WS- 000000 N000A
180625. Q2

INSPECTION OF STEEL

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.				
■ IDENTIFICATION MARKING TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	X	AISC 360: A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS	1705.2.1
■ INSPECT FABRICATOR'S FABRICATION AND QUALITY CONTROL PROCEDURES.	---	X	AISC 360: N5	---
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
■ SNUG-TIGHT JOINTS.	---	X		
■ PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION.	---	X	AISC 360: M2.5, N5	1705.2.1
■ PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	---	X		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK.				
■ FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.	---	X	AISC 360: A3.1	
■ FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	X	APPLICABLE ASTM MATERIAL STANDARDS	1705.2.2
■ MANUFACTURER'S CERTIFIED TEST REPORTS.	---	X		
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
■ IDENTIFICATION MARKING TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	X	AISC 360: A3.5 AND APPLICABLE AWS AS DOCUMENTS	---
■ MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	---	X	---	---
5. INSPECTION OF WELDING:				
A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:				
■ COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS.	X	---		
■ MULTIPASS FILLET WELDS.	X	---		
■ SINGLE-PASS FILLET WELDS > 5/16"	X	---	AWS D1.1 AWS D1.8	
■ PLUG AND SLOT WELDS.	X	---		
■ SINGLE-PASS FILLET WELDS <= 5/16"	---	X		
■ FLOOR AND ROOF DECK WELDS.	---	X	AWS D1.3	
B. REINFORCING STEEL				
■ VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	---	X		
□ REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	X	---	AWS D1.4 AND ACI 318-19:26.6.4.1, 18.2.5, 25.5.7.4	1705.3.1
■ SHEAR REINFORCEMENT.	X	---		
■ OTHER REINFORCING STEEL.	---	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:				
□ DETAILS SUCH AS BRACING AND STIFFENING.	---	X		
□ MEMBER LOCATIONS.	---	X	AISC 360: 16.2	1705.2.1
□ APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	---	X		

WELDING

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180625. Q2

INSPECTION OF WELDING

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
1. ■ WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGMS.	---	X	AWS D1.4	---
2. ■ WELDING OF COLD-FORMED STEEL FRAMING MEMBERS.	---	X		
3. ■ WELDING OF STAIRS AND RAILING SYSTEMS.	---	X		

MISCELLANEOUS

WS- 000000 N000A
Q1

MISCELLANEOUS

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
5. SEISMIC RESISTANCE				
■ SUSPENDED CEILING SYSTEMS AND THEIR ANCHORAGE.	---	---	---	1705.14.2
6. WIND RESISTANCE				
□ ROOF CLADDING AND ROOF FRAMING CONNECTIONS.	---	---	---	
□ WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	---	---	---	
□ ROOF AND FLOOR DIAPHRAGM SYSTEMS, INCLUDING COLLECTORS, DRAG STRUTS AND BOUNDARY ELEMENTS.	---	---	---	
□ VERTICAL WIND-FORCE-RESISTING SYSTEMS, INCLUDING BRACED FRAMES, MOMENT FRAMES, AND SHEAR WALLS.	---	---	---	
□ WIND-FORCE-RESISTING SYSTEM CONNECTIONS TO THE FOUNDATION.	---	---	---	
□ FABRICATION AND INSTALLATION OF SYSTEMS OR COMPONENTS REQUIRED TO MEET THE IMPACT RESISTANCE REQUIREMENTS OF SECTION 1609.1.2.	---	---	---	

FABRICATORS

WS- 000000 N000A
Q1

INSPECTION OF FABRICATORS

VERIFICATION AND INSPECTION	C	P	REFERENCED STANDARD	CBC REFERENCE
1. ■ INSPECT FABRICATOR'S FABRICATION AND QUALITY CONTROL PROCEDURES.	---	---	---	1704.2.5

STATEMENT OF SPECIAL INSPECTIONS

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180625. Q1

1. SPECIAL INSPECTIONS AND TESTING WILL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, THIS STATEMENT AND CBC SECTIONS 1704, 1705, 1706, 1707, AND 1708. INTERIM REPORTS WILL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH CBC SECTION 1704.2.4.

2. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY (SECTION 1704.2.4). THE FINAL REPORT WILL DOCUMENT:
   - REQUIRED SPECIAL INSPECTIONS.
   - CORRECTION OF DISCREPANCIES NOTED IN INSPECTIONS.

3. THE OWNER RECOGNIZES HIS OR HER OBLIGATION TO ENSURE THAT THE CONSTRUCTION COMPLIES WITH THE APPROVED PERMIT DOCUMENTS AND TO IMPLEMENT THIS PROGRAM OF SPECIAL INSPECTIONS. IN PARTIAL FULFILLMENT OF THESE OBLIGATIONS, THE OWNER WILL RETAIN AND DIRECTLY PAY FOR THE SPECIAL INSPECTIONS AS REQUIRED IN CBC SECTION 1704.2.

4. THIS PLAN HAS BEEN PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN CHARGE AND DEVELOPED WITH THE UNDERSTANDING THAT THE BUILDING OFFICIAL WILL:
   - REVIEW AND APPROVE THE QUALIFICATIONS OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE INSPECTIONS.
   - MONITOR SPECIAL INSPECTION ACTIVITIES ON THE JOB SITE TO ASSURE THAT THE SPECIAL INSPECTORS ARE QUALIFIED AND ARE PERFORMING THEIR DUTIES AS CALLED FOR IN THIS STATEMENT OF SPECIAL INSPECTION.
   - REVIEW SUBMITTED INSPECTION REPORTS.

5. PERFORM INSPECTIONS AS REQUIRED BY THE LOCAL BUILDING CODE

6. VERIFICATION AND INSPECTION CRITERIA FOR ITEMS NOTED ON THIS SHEET WITH FILLED-IN CHECK BOXES SHALL BE REQUIRED.

7. TERMINOLOGY USED FOR VERIFICATION AND INSPECTION CRITERIA SHALL INCLUDE:
   C INDICATES CONTINUOUS INSPECTION
   P INDICATES PERIODIC INSPECTION
   X PLACED IN BOX INDICATES EITHER CONTINUOUS OR PERIODIC INSPECTION IS REQUIRED.
   --- PLACED IN A BOX INDICATES AN ACTIVITY THAT IS EITHER A ONE-TIME ACTIVITY OR ONE WHOSE FREQUENCY IS DEFINED IN SOME OTHER MANNER.

STRUCTURAL TESTING & INSPECTION

S- 014500 N002A
170125. Q2

1. SPECIAL INSPECTION IS DEFINED AS THE INSPECTION OF THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.

2. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK MARKED IN THE LIST BELOW IN CONFORMANCE WITH THE ENFORCEMENT AGENCY REGULATORY REQUIREMENTS. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY.
   A. TESTING
      - ■ COMPACTED FILL
      - ■ CONCRETE
      - ■ MASONRY
      - ■ MORTAR & GROUT
      - ■ EXPANSION, EPOXY, SCREW ANCHORS
      - ■ SHOT-IN ANCHORS
   B. SPECIAL INSPECTIONS
      - ■ EXCAVATION, GRADING & FILLING FOR ALL FOUNDATION WORK
      - □ PILE DRIVING & TESTING
      - ■ PLACEMENT OF CONCRETE & REINFORCEMENT
      - ■ PLACEMENT OF MASONRY & REINFORCEMENT & DURING GROUTING OPERATIONS
      - ■ SHOP WELDS NOT DONE IN FABRICATOR'S SHOP REGISTERED & APPROVED BY THE BUILDING OFFICIAL
      - ■ FIELD WELDING
      - ■ HIGH-STRENGTH BOLTING
      - ■ EXPANSION, EPOXY, SCREW ANCHORS
      - ■ SPRAY-APPLIED FIRE PROOFING
      - □ SHOTCRETE
      - □ GLU-LAM FABRICATION
      - □ I-JOIST FABRICATION
      - ■ WELDED SHEAR STUDS

3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE ENFORCEMENT AGENCY AND THE ARCHITECT/STRUCTURAL ENGINEER, FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.

4. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.

5. DISCREPANCIES IN THE INSPECTED WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.

6. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER AT THE COMPLETION OF THE WORK INCLUDED IN THE CONSTRUCTION DOCUMENTS.

7. SCHEDULE AND COORDINATE ALL STRUCTURAL TESTS AND SPECIAL INSPECTIONS. NOTIFY THE SPECIAL INSPECTOR 48 HOURS MINIMUM PRIOR TO PERFORMING ANY WORK REQUIRING THE SPECIAL INSPECTOR'S PRESENCE. COORDINATE WITH THE SPECIAL INSPECTOR SO THAT THE WORK REQUIRING THE TESTS AND INSPECTIONS NOTED ABOVE IS ACCESSIBLE AND EXPOSED FOR TESTING AND INSPECTION PURPOSES. REMOVE AND/OR REPLACE MATERIALS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO ALLOW TESTS AND INSPECTIONS.

DRAFT

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER
GARRION E. HUNTINGTON
No. S4786
STRUCTURAL
STATE OF CALIFORNIA
08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
STATEMENT OF SPECIAL INSPECTIONS

SHEET
S-014
V1

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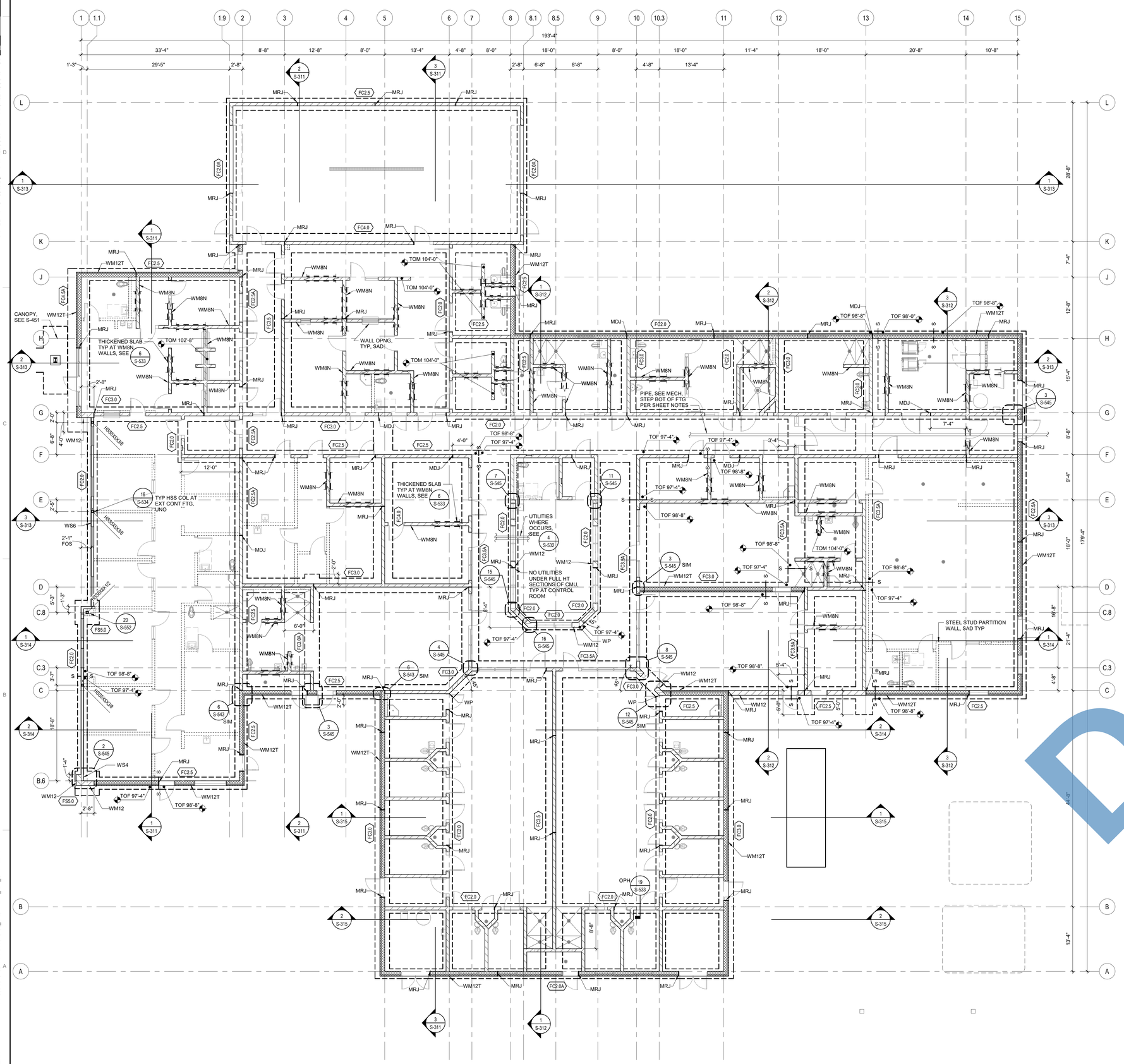


1 PLAN - FOUNDATION - LEVEL 1

SCALE 1/8" = 1'-0"

FOUNDATION NOTES

170828. Q2

1. SEE S-000 SERIES SHEETS FOR GENERAL NOTES & S-500 SERIES SHEETS FOR TYPICAL DETAILS.
2. SEE S-200 SERIES SHEETS FOR WALL & FRAMING ELEVATIONS.
3. DIMENSIONS ARE TO FOM, FOS, OR CENTERLINE OF COLUMNS/POSTS, UNO. SEE SECTIONS & DETAILS FOR FOC LOCATIONS RELATIVE TO FOS.
4. SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS.
5. SEE ARCH DWGS FOR DIMENSIONS OF SLAB DEPRESSIONS & SLOPED SLABS.
6. SEE ARCH & OTHER CONSULTANT DWGS FOR FLOOR PENETRATIONS NOT SHOWN. SAWCUT OR CORE DRILL CLEAN HOLES WITH NO OVERCUTTING. COMPLY WITH TYPICAL DETAILS.
7. SEE CIVIL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR ENGINEERED FILL.
8. EXTERIOR CONCRETE FLATWORK IS NOT SHOWN, SEE CIVIL & ARCH DWGS.
9. CONTINUOUS WALL FOOTINGS TO BE CENTERED UNDER WALLS AND PAD FOOTINGS TO BE CENTERED UNDER COLUMNS, TYP UNO.
10. TOP OF FOOTINGS SHALL BE 1'-4" BELOW FINISHED FLOOR (TOF 98'-8"), TYP UNO. SEE ARCH AND OTHER CONSULTANT DRAWINGS FOR UTILITIES THAT WILL AFFECT FOOTINGS AND COMPLY WITH TYPICAL DETAILS.
11. SEE SCHEDULE FOR CONTINUOUS FOOTING SIZE AND REINFORCING.
12. SEE SLAB SCHEDULE FOR SLAB THICKNESS AND REINFORCING, TYP UNO.
13. CMU WALLS ARE WM8 - 8" CMU GROUTED SOLID W/ STD REINF, TYP UNO.
14. EXTERIOR STEEL STUD WALLS ARE WS6, TYP, UNO.
15. MASONRY JOINTS AS SHOWN ON PLAN PROVIDES GENERAL LAYOUT INTENT ONLY. CONTRACTOR TO PROVIDE JOINT LAYOUT FOR ARCHITECTURAL APPROVAL CONFORMING TO DETAILS ON S-54X SERIES SHEETS. MRJ=MASONRY RAKE JOINT, MDJ=MASONRY DOWEL JOINT, MCJ=MASONRY CONTROL JOINT.
16. TO AVOID ZONE OF INFLUENCE OF FOOTINGS AT ADJACENT PIPES, STEP BOTTOM OF FOOTING, KEEP TOP OF FOOTING. SEE 6 / S-531 & 17 / S-532 FOR ADDITIONAL INFO.
17. SEE SHEET S-111 FOR GROUND SLAB PLAN.

SCHEDULES

WALL SCHEDULE

Q1

TYPE	NOMINAL WALL THICKNESS	DESCRIPTION	DETAIL
WM8	8"	8" CMU WALLS. TYP REINF: #5 @ 16" OC VERT, #5 @ 16" OC HORIZ	
WM8N	8"	8" CMU WALLS. TYP REINF: #5 @ 16" OC VERT, #5 @ 16" OC HORIZ	
WM12	1'-0"	12" CMU WALLS. TYP REINF: (2) LAYERS OF #5 VERT@ 16" OC, (2) LAYERS OF #5 @ 16" OC HORIZ	19/S-542
WM12T	1'-0"	12" CMU WALLS WITH INSULATION. TYP REINF: #5 @ 16" OC VERT, #5 @ 16" OC HORIZ	19/S-543
WS4	4"	400S162-54 STEEL STUDS @ 16" OC, TYP	4/S-591
WS6	6"	600S162-54 STEEL STUDS @ 16" OC, TYP	4/S-591

CONTINUOUS FOOTING SCHEDULE

TYPE	WIDTH	DEPTH	REINFORCEMENT
FC2.0	2'-0"	1'-6"	(3) #5 CONT BARS BOT, (1) #5 CONT BAR TOP
FC2.0A	2'-0"	2'-0"	(5) #5 CONT BARS BOT, (3) #5 CONT BAR TOP, #4 TIES @ 10" OC
FC2.5	2'-6"	1'-6"	(4) #5 CONT BARS BOT, (2) #5 CONT BAR TOP
FC2.5A	2'-6"	2'-0"	(4) #5 CONT BARS BOT, (2) #5 CONT BAR TOP, #4 TIES @ 10" OC
FC3.0	3'-0"	1'-6"	(5) #5 CONT BARS BOT, (2) #5 CONT BAR TOP
FC3.0A	3'-0"	2'-0"	(5) #5 CONT BARS BOT, (2) #5 CONT BAR TOP, #4 TIES @ 10" OC
FC3.5	3'-6"	1'-6"	(5) #5 CONT BARS BOT, (2) #5 CONT BAR TOP
FC3.5A	3'-6"	2'-0"	(7) #5 CONT BARS BOT, (4) #5 CONT BAR TOP, #4 TIES @ 10" OC
FC4.0	4'-0"	1'-6"	(6) #5 CONT BARS BOT, (2) #5 CONT BAR TOP
FC4.5A	4'-6"	2'-0"	(9) #6 CONT BARS BOT, (4) #6 CONT BAR TOP, #4 TIES @ 8" OC

NOTE: SEE DETAILS FOR TRANSVERSE BAR & TIE REQUIREMENTS

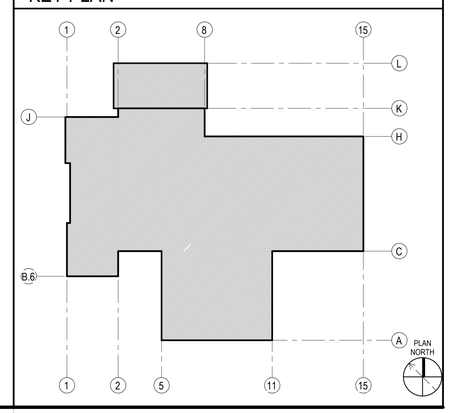
SPREAD FOOTING SCHEDULE

TYPE	SIZE	DEPTH	REINFORCEMENT
FS5.0	5'-0"x5'-0"	1'-6"	(7) #5 EW AT BOT

LEGEND

- (E) ELEMENTS SHOWN FADED - LINETYPE AND PATTERN HATCHING AS NOTED FOR NEW CONSTRUCTION
- FCXX — CONTINUOUS FOOTING TAG
- FSXX — SPREAD FOOTING TAG
- CONTINUOUS FOOTING
- SPREAD FOOTING
- S — STEPPED FOOTING
- INSULATED CMU WALL. WM12T, TYP, UNO.
- WM12T — CMU WALL TYPE DESIGNATION. SEE SCHEDULE
- FULLY GROUTED CMU WALL. WM8, TYP, UNO.
- WM12, WM8N, & WM8 — CMU WALL TYPE DESIGNATION. SEE SCHEDULE
- NON-STRUCTURAL STEEL STUD WALL, SAD
- CONCRETE CURB OR PAD
- DEPRESSED SLAB AREA
- SAD FOR EXTENTS
- SLAB STEP SYMBOL
- ELEVATION RELATIVE TO TOC
- SN, CP, DK — CONC SLAB / STEEL DECK TYPE AND SPAN DIRECTION
- COL SIZE — COLUMN WITH CALLOUT

KEY PLAN



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TITLE
PLAN - FOUNDATION - LEVEL 1

SHEET
SB111

V1

Draft

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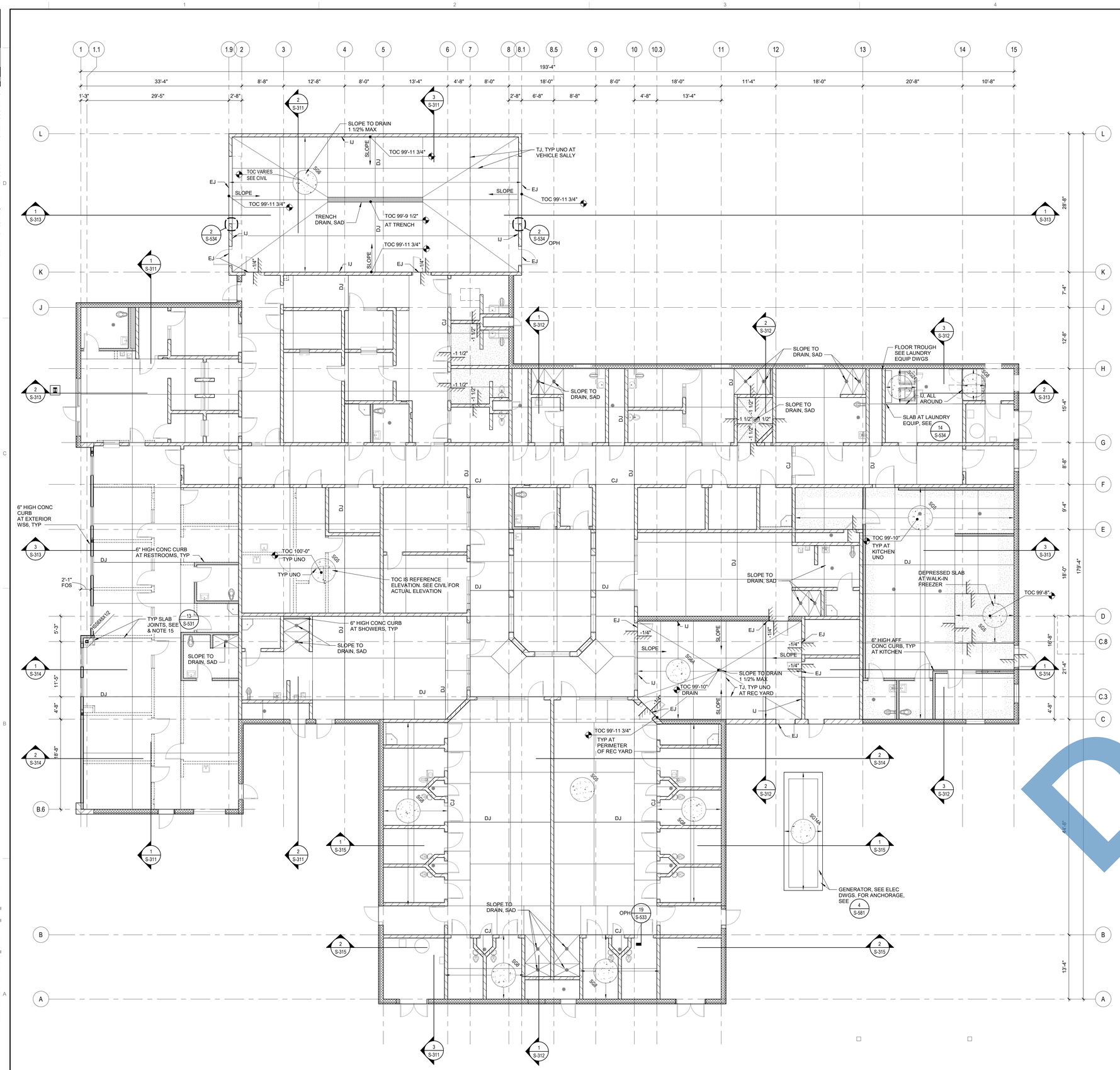

1 PLAN - SLAB - LEVEL 1
SCALE 1/8" = 1'-0"

SLAB PLAN NOTES

170828. Q2

1. SEE S-000 SERIES SHEETS FOR GENERAL NOTES & S-500 SERIES SHEETS FOR TYPICAL DETAILS.
2. SEE S-200 SERIES SHEETS FOR WALL & FRAMING ELEVATIONS.
3. DIMENSIONS ARE TO FOM, FOS, OR CENTERLINE OF COLUMNS/POSTS, UNO. SEE SECTIONS & DETAILS FOR FOC LOCATIONS RELATIVE TO FOS.
4. SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS.
5. SEE ARCH DWGS FOR DIMENSIONS OF SLAB DEPRESSIONS & SLOPED SLABS. SEE ALSO CIVIL DWGS FOR SLOPED SLABS.
6. SEE ARCH & OTHER CONSULTANT DWGS FOR FLOOR PENETRATIONS NOT SHOWN. SAWCUT OR CORE DRILL CLEAN HOLES WITH NO OVERCUTTING. COMPLY WITH TYPICAL DETAILS.
7. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ENGINEERED FILL.
8. EXTERIOR CONCRETE FLATWORK IS NOT SHOWN, SEE CIVIL & ARCH DWGS.
9. CONTINUOUS WALL FOOTINGS TO BE CENTERED UNDER WALLS AND PAD FOOTINGS TO BE CENTERED UNDER COLUMNS, TYP UNO.
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11. SEE SCHEDULE FOR CONTINUOUS FOOTING SIZE AND REINFORCING.
12. SEE SLAB SCHEDULE FOR SLAB THICKNESS AND REINFORCING, TYP UNO.
13. CMU WALLS ARE WM8 - 8" CMU GROUTED SOLID W/ STD REINF, TYP UNO.
14. EXTERIOR STEEL STUD WALLS ARE WS6, TYP, UNO.
15. SLAB JOINTS AS SHOWN ON PLAN PROVIDES GENERAL LAYOUT INTENT ONLY. CONTRACTOR TO PROVIDE JOINT LAYOUT CONFORMING TO 13/S-531. CONTRACTOR TO SUBMIT SLAB JOINT LAYOUT FOR REVIEW BY AOR/SEOR PRIOR TO WORK. SLAB JOINTS AS SHOWN ON PLAN ARE SJ UNO.

SCHEDULES

WALL SCHEDULE

Q1

TYPE	NOMINAL WALL THICKNESS	DESCRIPTION	DETAIL
WM8	8"	8" CMU WALLS. TYP REINF: #5 @ 16" OC VERT, #5 @ 16" OC HORIZ	
WM8N	8"	8" CMU WALLS. TYP REINF: #5 @ 16" OC VERT, #5 @ 16" OC HORIZ	
WM12	1'-0"	12" CMU WALLS. TYP REINF: (2) LAYERS OF #5 VERT@ 16" OC, (2) LAYERS OF #5 @ 16" OC HORIZ	19/S-542
WM12T	1'-0"	12" CMU WALLS WITH INSULATION. TYP REINF: #5 @ 16" OC VERT, #5 @ 16" OC HORIZ	19/S-543
WS4	4"	400S162-54 STEEL STUDS @ 16" OC, TYP	4/S-591
WS6		600S162-54 STEEL STUDS @ 16" OC, TYP	4/S-591

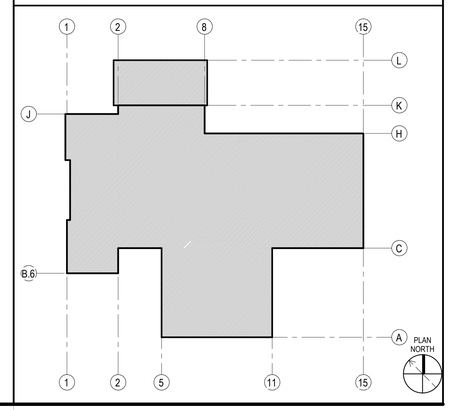
SLAB ON GRADE SCHEDULE

TYPE	T SLAB	VR	BASE LAYER	REINF	NOTES
SG5	5"	YES	5" FREE DRAINING CRUSHED ROCK	#4 @ 16" OC EW	
SG6	6"	YES	6" FREE DRAINING CRUSHED ROCK	#5 @ 16" OC EW	
SG6A	6"	NO	6" FREE DRAINING CRUSHED ROCK	#5 @ 16" OC EW	
SG8	8"	YES	6" FREE DRAINING CRUSHED ROCK	#5 @ 16" OC T&B EW	
SG14A	1'-2"	NO	COMPACTED FILL PER GEOTECH	#5 @ 16" OC T&B EW	
SG24	2'-0"	YES	6" FREE DRAINING CRUSHED ROCK	#5 @ 12" OC T&B EW	f'c=5000 PSI MIN

LEGEND

- (E) ELEMENTS SHOWN FADED - LINETYPE AND PATTERN/HATCHING AS NOTED FOR NEW CONSTRUCTION
- FCX.X — CONTINUOUS FOOTING TAG
- FSX.X — SPREAD FOOTING TAG
- CONTINUOUS FOOTING
- SPREAD FOOTING
- S — STEPPED FOOTING
- WM12T — INSULATED CMU WALL. WM12T, TYP, UNO.
- CMU WALL TYPE DESIGNATION. SEE SCHEDULE
- FULLY GROUTED CMU WALL. WM8, TYP, UNO.
- WM12, WM8N, & WM8 — CMU WALL TYPE DESIGNATION. SEE SCHEDULE
- NON-STRUCTURAL STEEL STUD WALL, SAD
- CONCRETE CURB OR PAD
- DEPRESSED SLAB AREA
- SAD FOR EXTENTS
- SLAB STEP SYMBOL
- -2" — ELEVATION RELATIVE TO TOC
- SX, CX, DX — CONC SLAB / STEEL DECK TYPE AND SPAN DIRECTION
- COL SIZE — COLUMN WITH CALLOUT

KEY PLAN



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AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER GARRISON E. HUNTINGTON No. S4785 STRUCTURAL STATE OF CALIFORNIA
08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

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SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
PLAN - SLAB - LEVEL 1

SHEET
S-111

V1

Draft

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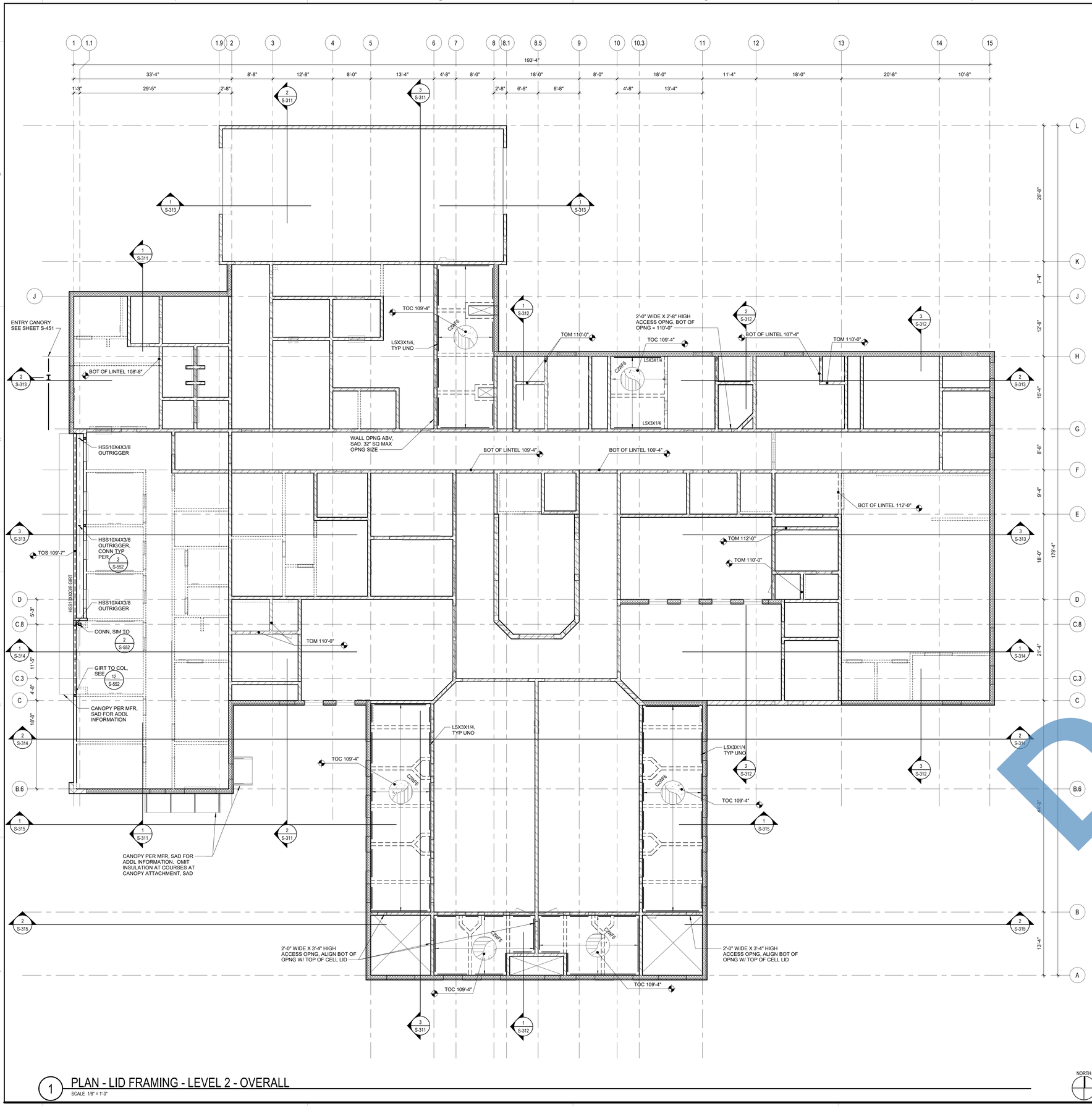


1 PLAN - LID FRAMING - LEVEL 2 - OVERALL

SCALE 1/8" = 1'-0"

NORTH

LID PLAN NOTES

170828. Q2

1. SEE S-000 SERIES SHEETS FOR GENERAL NOTES & S-500 SERIES SHEETS FOR TYPICAL DETAILS.
2. DIMENSIONS ARE TO FOM, FOS, OR CENTERLINE OF COLUMNS/POSTS, UNO. SEE SECTIONS & DETAILS FOR FOC LOCATIONS RELATIVE TO FOS.
3. SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS. SEE TYPICAL DETAILS FOR FRAMING AT OPENINGS.
4. SEE ARCH & OTHER CONSULTANT DWGS FOR FLOOR PENETRATIONS NOT SHOWN. SAWCUT OR CORE DRILL CLEAN HOLES WITH NO OVERCUTTING. COMPLY WITH TYPICAL DETAILS.

SCHEDULES

Q1

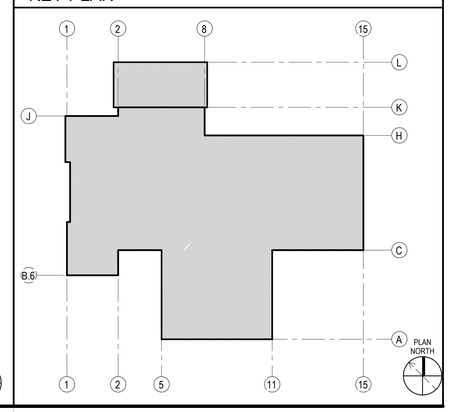
DECK SCHEDULE

TYPE	DECK TYPE	DECK GA	CONC FILL	REINF	DETAIL
C2WF6	2" TYPE "WF" COMPOSITE STEEL DECK	16/16 GA	6" NWC (8" TOTAL)	6X6-W1.4XW1.4 (6X6 - 10X10) WWF	

LEGEND

- (E) ELEMENTS SHOWN FADED - LINETYPE AND PATTERN/HATCHING AS NOTED FOR NEW CONSTRUCTION
- STRUCTURAL WALL BELOW
- WM12T — INSULATED AND FULLY GROUTED 12" CMU WALL. WM12T, TYP. UNO — CMU WALL TYPE DESIGNATION. SEE TYPICAL DETAILS
- WM8N, & WM8 — FULLY GROUTED 8" CMU WALL. WM8, TYP. UNO — CMU WALL TYPE DESIGNATION. SEE TYPICAL DETAILS
- WM12 — FULLY GROUTED 12" CMU WALL. WM12, TYP. UNO — CMU WALL TYPE DESIGNATION. SEE TYPICAL DETAILS
- CONC SLAB / STEEL DECK TYPE AND SPAN DIRECTION
- SECURITY MESH, SAD (NOT DESIGNED FOR ROOF LIVE LOADS)
- W12x40 SFRS — BEAM SIZE, SFRS WHERE NOTED
- C=1" — BEAM CAMBER
- SFRS — BOLTED SINGLE ROW SFRS CONNECTION, SEE 11 / S-552
- SFRS — BOLTED DOUBLE ROW SFRS CONNECTION, SEE 10 / S-552
- SFRS — WELDED SFRS CONNECTION, SEE 8 / S-552
- BEAM POCKET AT BEARING WALL — 19 / S-544
- BEAM POCKET AT BEARING WALL AFTER ROOF CONC MEETS ALLOWABLE DESIGN STRENGTH — 20 / S-544

KEY PLAN



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08/30/2023

PROJECT

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TITLE

PLAN - LID FRAMING - LEVEL 2

SHEET

S-121

V1

Draft

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1 PLAN - ROOF FRAMING - LEVEL 2

SCALE 1/8" = 1'-0"

ROOF FRAMING NOTES

170828. Q2

1. SEE S-000 SHEETS FOR GENERAL NOTES & S-500 SHEETS FOR TYPICAL DETAILS.
2. SEE S-200 SHEETS FOR WALL ELEVATIONS.
3. DIMENSIONS ARE TO FOM OR CENTERLINE OF COLUMNS/POSTS, UON SEE SECTIONS & DETAILS FOR FOM LOCATIONS RELATIVE TO FOS.
4. SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS. SEE TYPICAL DETAILS FOR FRAMING AT OPENINGS.
5. SEE ARCH & OTHER CONSULTANT DWGS FOR ROOF PENETRATIONS NOT SHOWN. PROVIDE FRAMING AROUND OPENINGS PER TYPICAL DETAILS. SAWCUT OR CORE DRILL CLEAN HOLES WITH NO OVERCUTTING. CONFORM WITH TYPICAL DETAILS.
6. THE "TOM" TAG DENOTES THE TOP OF THE MASONRY WALLS, NOT INCLUDING AND WALL CAPS. SEE ARCH DWGS FOR WALL CAPS, WHERE OCCURS.
7. PROVIDE 3/4" DIA WELDED HEADED STUDS @ 12" OC AT ALL BEAMS SUPPORTING STEEL DECK W/ CONCRETE FILL, TYP UON NO WELDED HEADED STUDS AT LEDGERS AND AT BEAMS SHALLOWER THAN 10" NOMINAL DEPTH.
8. AT CAMBERED BEAMS PROVIDE THE MINIMUM THICKNESS OF CONCRETE SHOWN ON THE DECK SCHEDULE, INCLUDING AT THE HIGH POINT OF THE CAMBER.
9. BEAMS PASSING THROUGH CMU WALLS SHALL HAVE BLOCKOUTS GROUTED SOLID PER TYP MASONRY DETAILS, UNO.
10. BEAMS ARE EQUALLY SPACED BETWEEN STRUCTURAL WALL AND COLUMNS, UNO.
11. COLLECTOR REBAR IN CONC SLAB SHALL BE PER 20 / S-571

SCHEDULES

Q1

DECK SCHEDULE

TYPE	DECK TYPE	DECK GA	CONC FILL	REINF	DETAIL
CW2	2" TYPE "W" COMPOSITE STEEL DECK	18 GA	3 1/2" NWC (5 1/2" TOTAL)	6X6-W1.4XW1.4 (6X6 - 10X10) WWF, UNO	20/S-571
DN3	3" TYPE "N" STEEL DECK	18 GA			

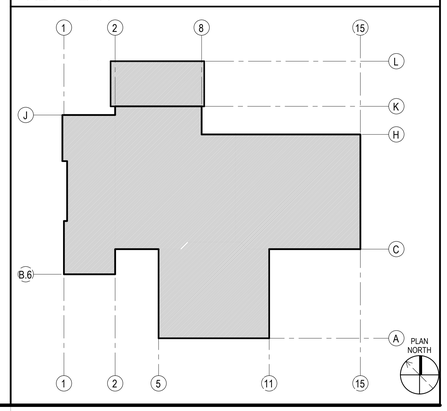
CONC O/ STL DECK TO CMU WALL SLAB DOWELS PER 4/544

TYPE	DOWEL SIZE	DOWEL SPACING	NOTES
1	#4	16" OC	TYP UNO
2	#5	16" OC	
3	#4	8" OC	
4	#6	8" OC	

LEGEND

- (E) ELEMENTS SHOWN FADED - LINETYPE AND PATTERN/HATCHING AS NOTED FOR NEW CONSTRUCTION
- STRUCTURAL WALL BELOW
- INSULATED AND FULLY GROUTED 12" CMU WALL. WM12T, TYP, UNO (WM12T)
- CMU WALL TYPE DESIGNATION. SEE TYPICAL DETAILS
- FULLY GROUTED 8" CMU WALL. WM8, TYP, UNO (WM8N, & WM8)
- CMU WALL TYPE DESIGNATION. SEE TYPICAL DETAILS
- FULLY GROUTED 12" CMU WALL. WM12, TYP, UNO (WM12)
- CMU WALL TYPE DESIGNATION. SEE TYPICAL DETAILS
- CONC SLAB / STEEL DECK TYPE AND SPAN DIRECTION
- SECURITY MESH, SAD (NOT DESIGNED FOR ROOF LIVE LOADS)
- BEAM SIZE (W12x40 SFRS)
- SFRS WHERE NOTED (C=1")
- BEAM CAMBER
- BOLTED SINGLE ROW SFRS CONNECTION, SEE 11 / S-552
- BOLTED DOUBLE ROW SFRS CONNECTION, SEE 10 / S-552
- WELDED SFRS CONNECTION, SEE 8 / S-552
- BEAM POCKET AT BEARING WALL 19 / S-544
- BEAM POCKET AT BEARING WALL AFTER ROOF CONC MEETS ALLOWABLE DESIGN STRENGTH 20 / S-544

KEY PLAN



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TITLE

PLAN - ROOF FRAMING - LEVEL 2

SHEET

S-132

V1

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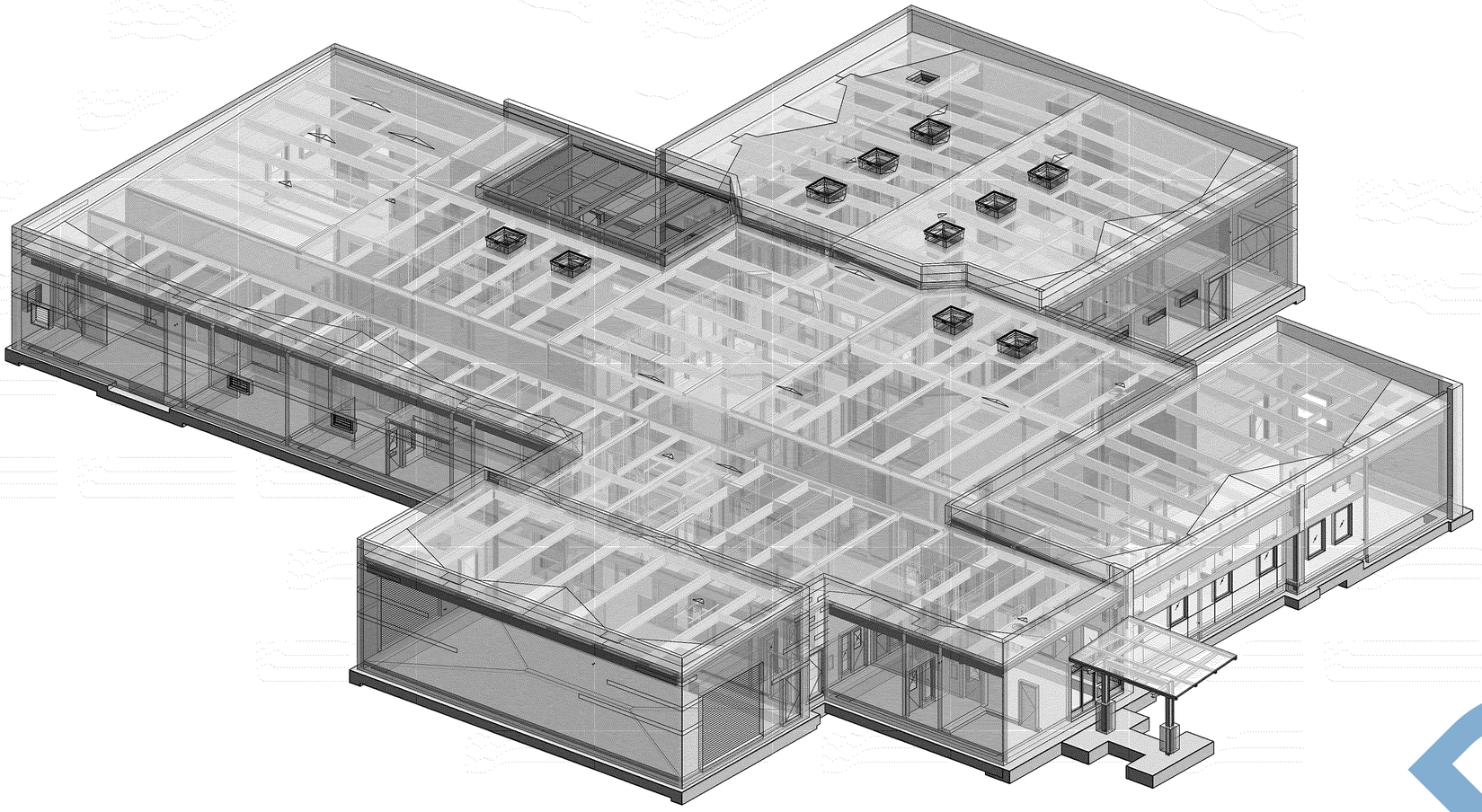


1 STR -3D FROM NORTHWEST
SCALE

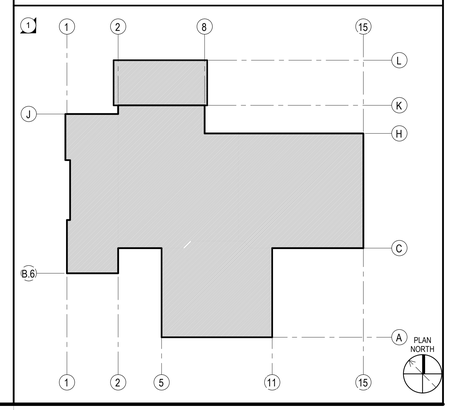
3D VIEW NOTES

170828. Q1

1. FRAMING SHOWN IN THESE VIEWS IS FOR GENERAL INFORMATION ONLY. THE BALANCE OF STRUCTURAL DOCUMENT TAKE PRECEDENCE OVER 3D VIEWS.
2. NOT ALL FRAMING MAY BE SHOWN. SEE CONSTRUCTION DOCUMENTS FOR ADDITIONAL FRAMING MEMBERS REQUIRED.

Draft

KEY PLAN



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P 916.558.1900
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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER
GARRION E. HUNTINGTON
No. S4785
STRUCTURAL
STATE OF CALIFORNIA
08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
3D VIEWS

SHEET
S-201

V1

BIM 360:/018133 Mono Jail/018133_ARCHMSTR_R20_CENTRAL.rvt

8/30/2023 11:18:42 AM

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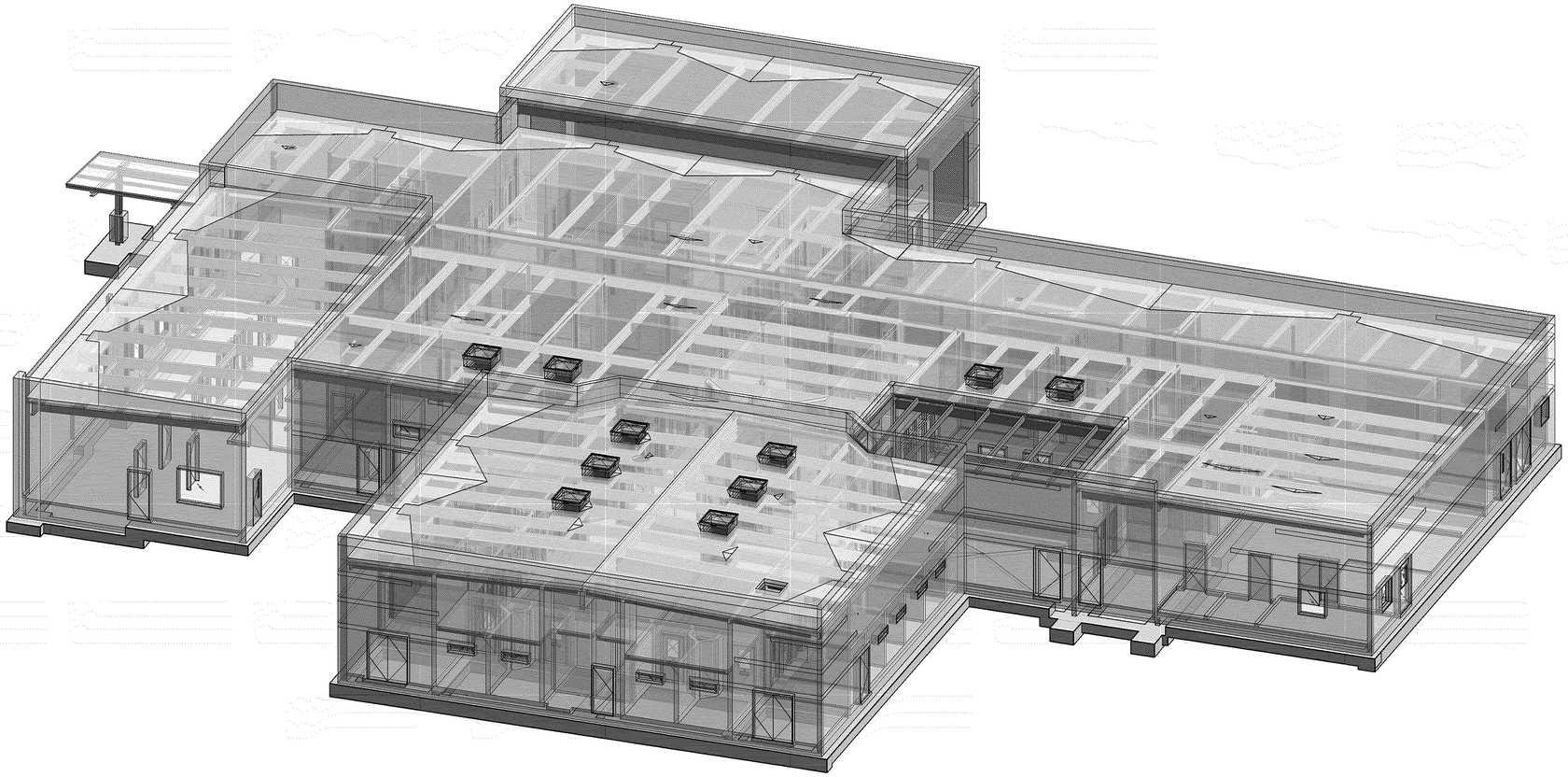

1 STR -3D FROM SOUTHEAST
SCALE

3D VIEW NOTES

170828. Q1

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Draft

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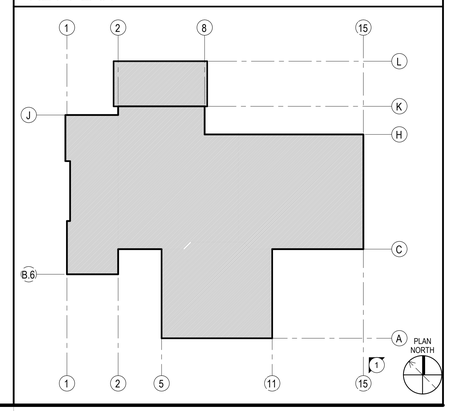

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
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TITLE
3D VIEWS

SHEET
S-202

V1

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8/30/2023 11:18:47 AM

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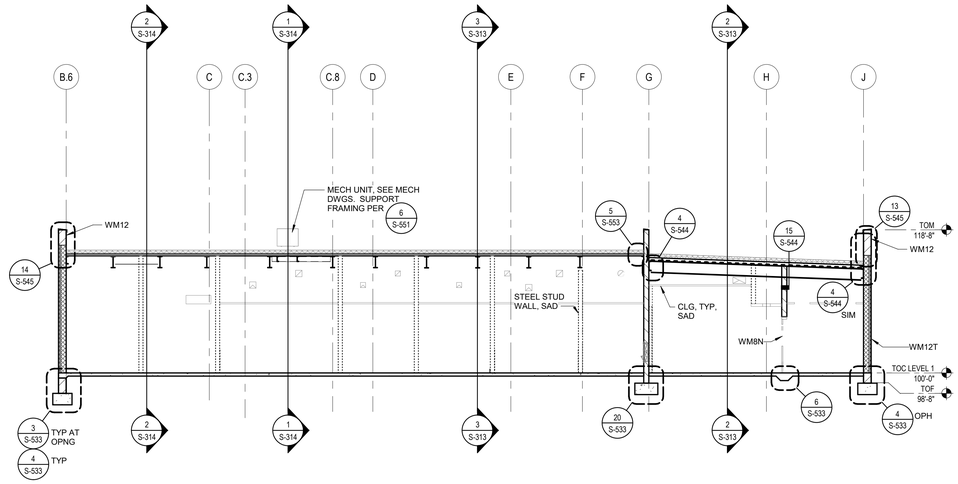

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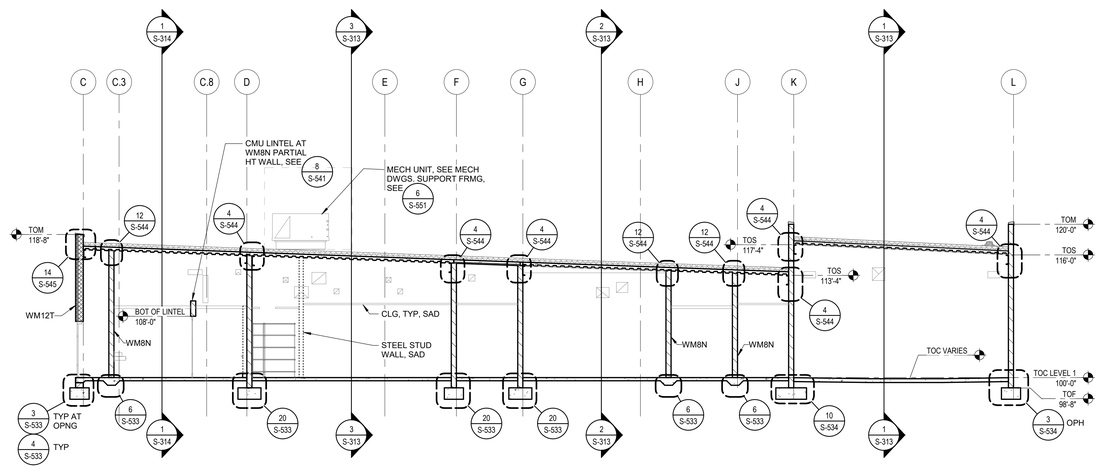

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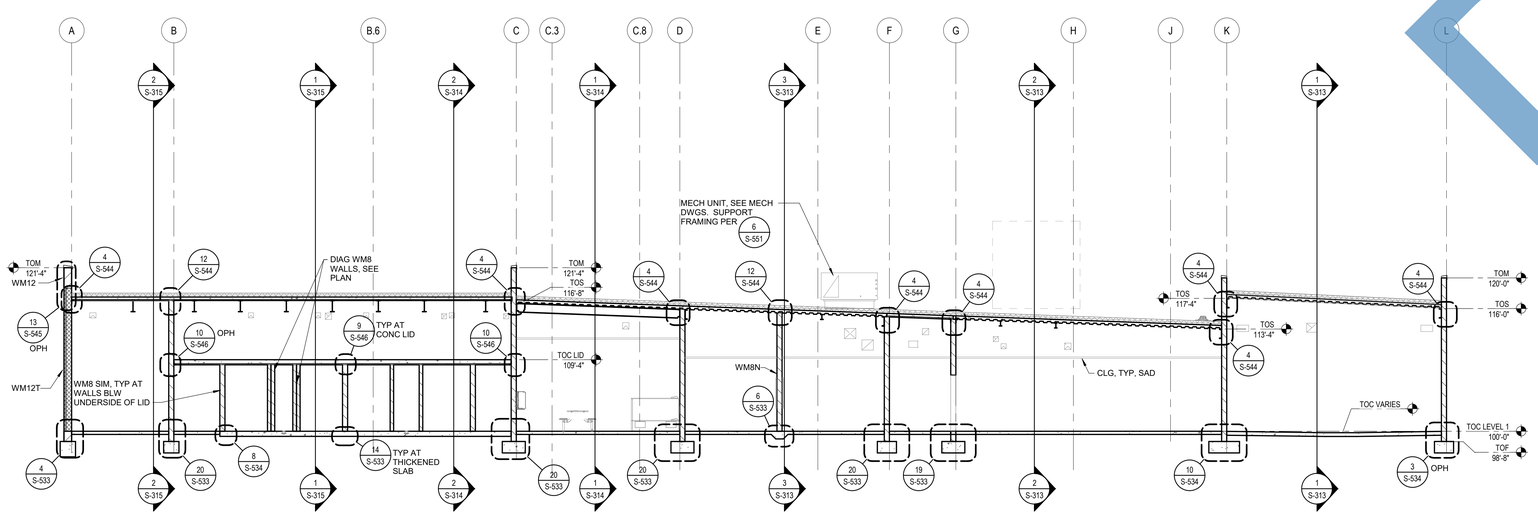

3 BUILDING SECTION
SCALE 1/8" = 1'-0"

NOTES

1. SEE S-000 SHEETS FOR GENERAL NOTES AND S-500 SHEETS FOR TYPICAL DETAILS.
2. SEE S-100 SHEETS FOR FOUNDATION AND FRAMING PLANS AND ADDITIONAL NOTES, SCHEDULES AND LEGENDS.
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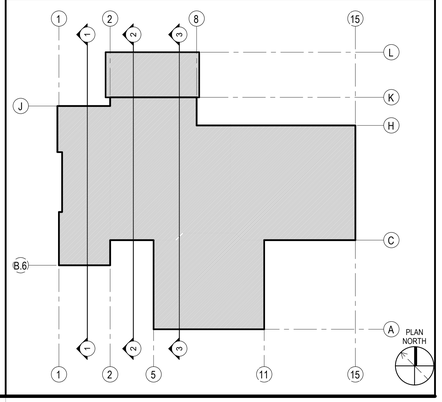
4. SEE FOUNDATION AND FRAMING PLANS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN.
5. SEE ARCH AND OTHER CONSULTANT DWGS FOR DIMENSIONS AND LOCATIONS OF WALL OPENINGS. SEE TYPICAL DETAILS FOR FRAMING AT OPENINGS.
6. SEE ARCH AND OTHER CONSULTANT DWGS FOR UTILITIES THAT WILL AFFECT FOOTINGS AND COMPLY WITH TYPICAL DETAILS.
7. SEE PLAN FOR LEDGERS. CONNECTIONS PER DETAILS ON S-553, TYP UNO.

KEY PLAN



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08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
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TITLE
SECTIONS - BUILDING

SHEET
S-311
V1

Draft

BIM 360://018133 Mono Jail/018133_ARCHMSTR_R20_CENTRAL.rvt
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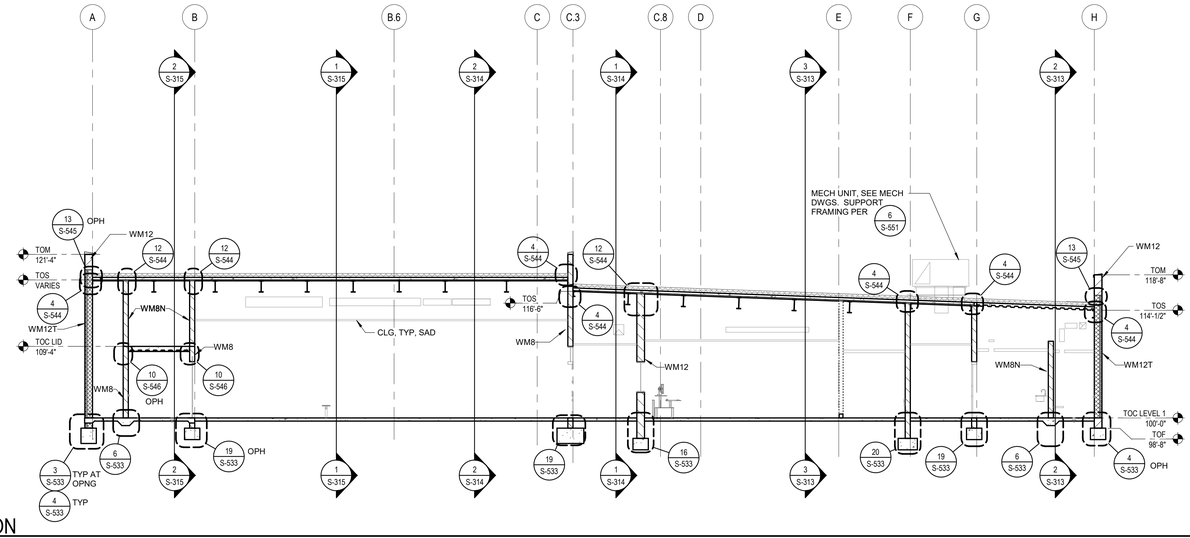
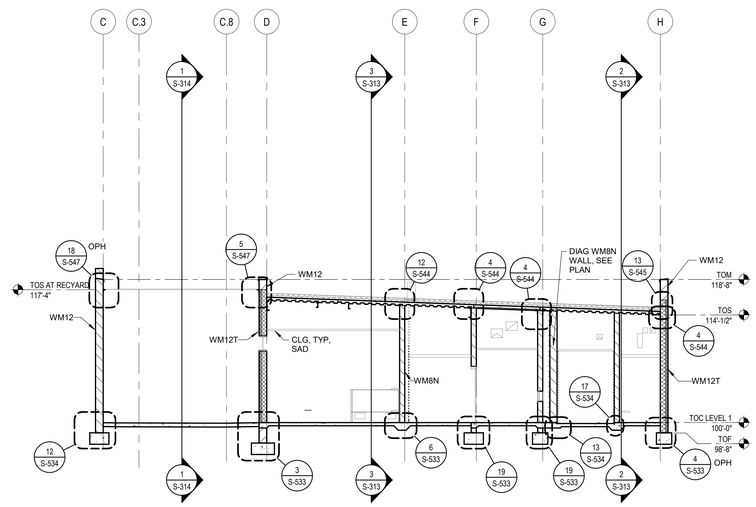


1 BUILDING SECTION
SCALE 1/8" = 1'-0"



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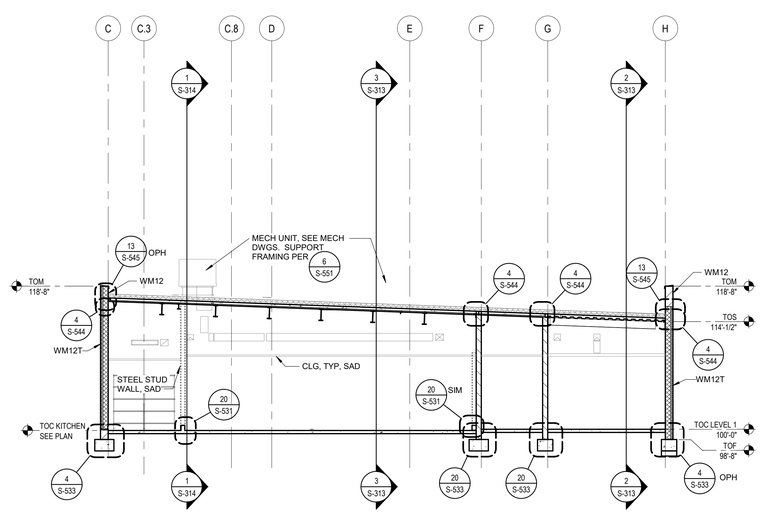

3 BUILDING SECTION
SCALE 1/8" = 1'-0"

NOTES

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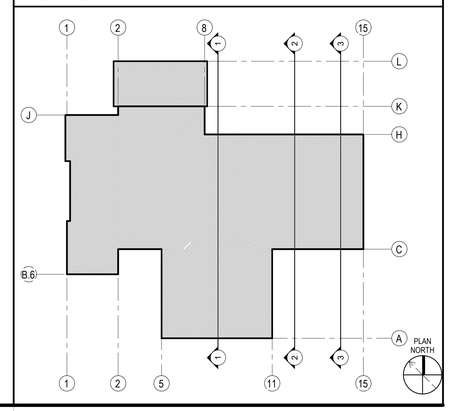
6. SEE ARCH AND OTHER CONSULTANT DWGS FOR UTILITIES THAT WILL AFFECT FOOTINGS AND COMPLY WITH TYPICAL DETAILS.
7. SEE PLAN FOR LEDGERS. CONNECTIONS PER DETAILS ON S-553, TYP UNO.

Draft

KEY PLAN



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08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
SECTIONS - BUILDING

SHEET
S-312

V1

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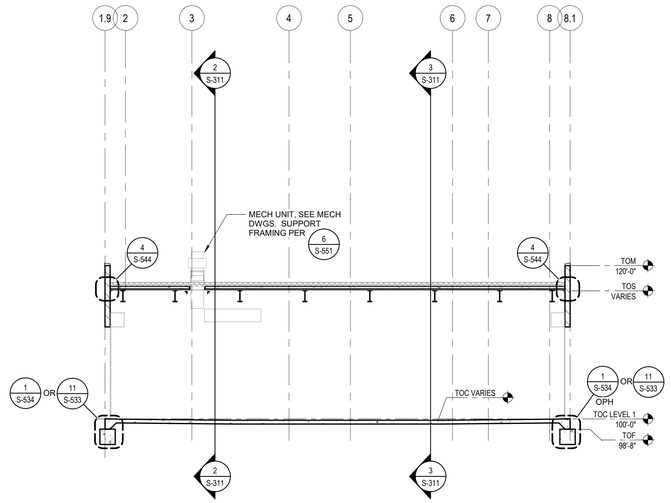
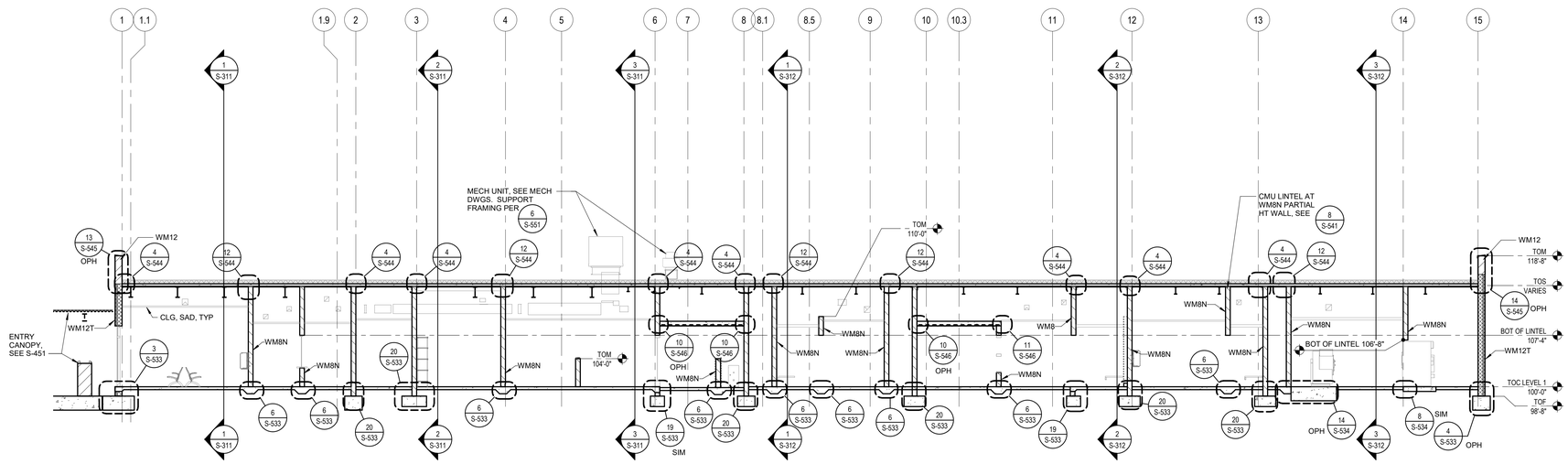


1 BUILDING SECTION

SCALE 1/8" = 1'-0"



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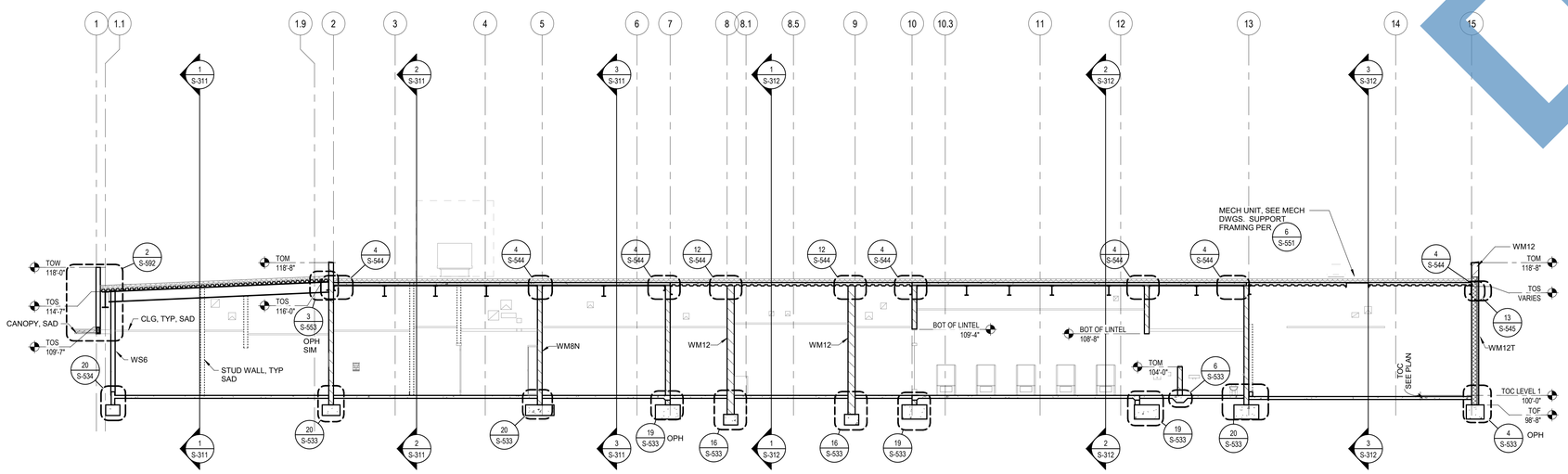

3 BUILDING SECTION

SCALE 1/8" = 1'-0"

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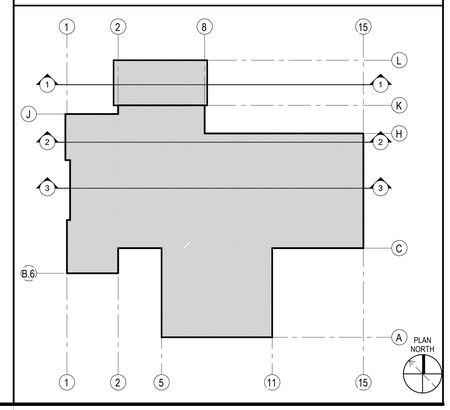
Draft

KEY PLAN



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AGENCY

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08/30/2023

PROJECT

MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT

MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

SECTIONS - BUILDING

SHEET

S-313

V1

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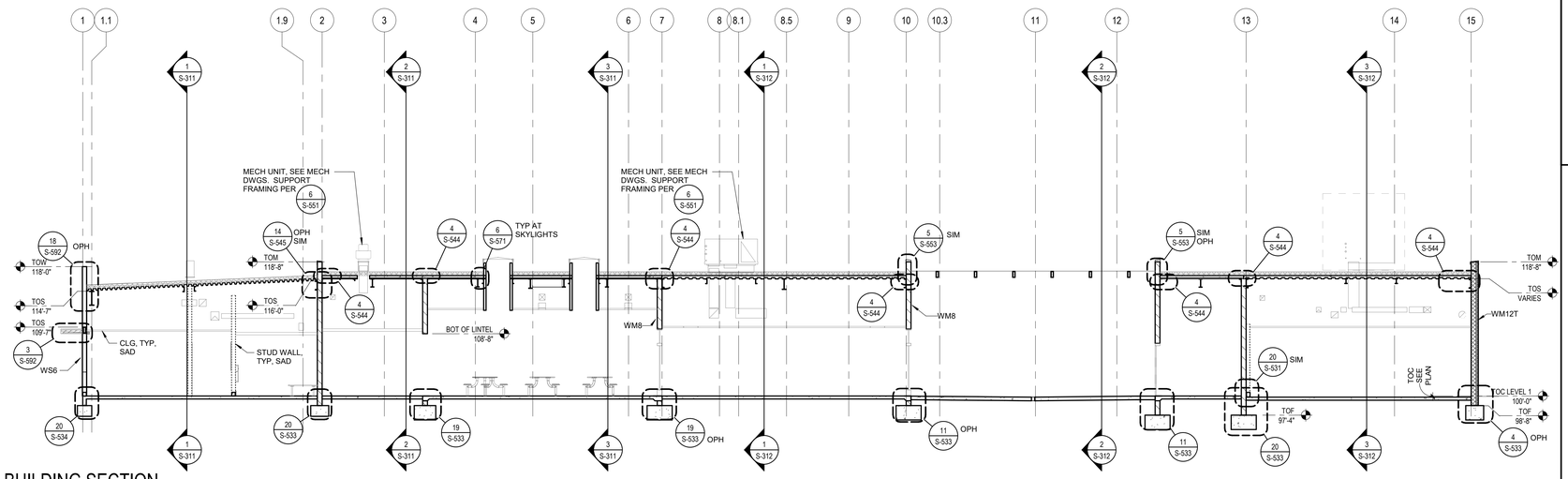
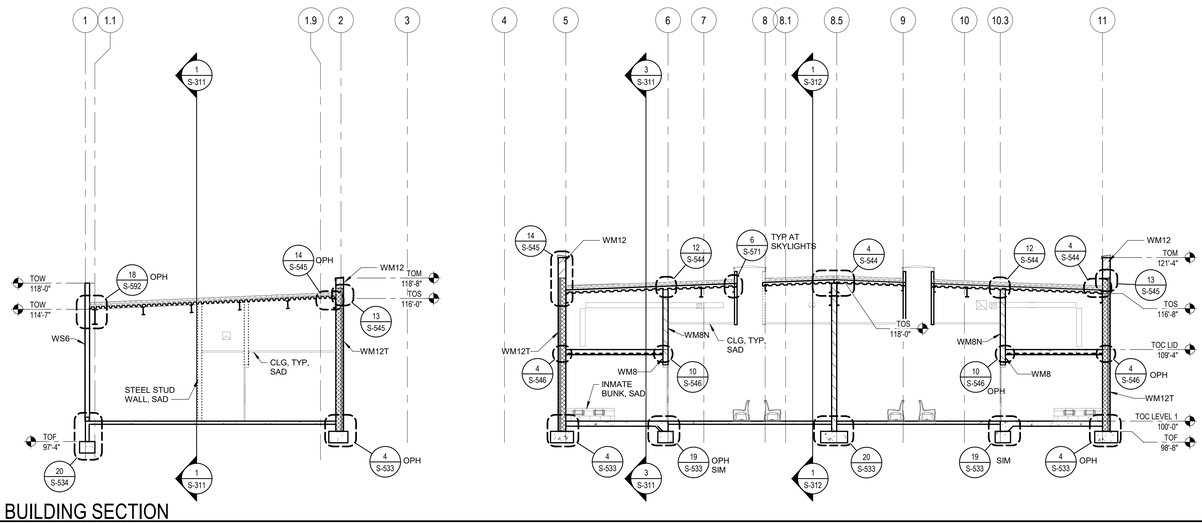


1 BUILDING SECTION
SCALE 1/8" = 1'-0"



2 BUILDING SECTION
SCALE 1/8" = 1'-0"

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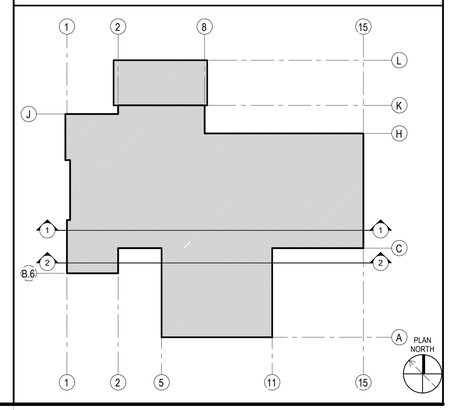
Draft

KEY PLAN



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AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER GARDNER E. HUNTINGTON No. S4785 STRUCTURAL STATE OF CALIFORNIA
08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
SECTIONS - BUILDING

SHEET
S-314
V1

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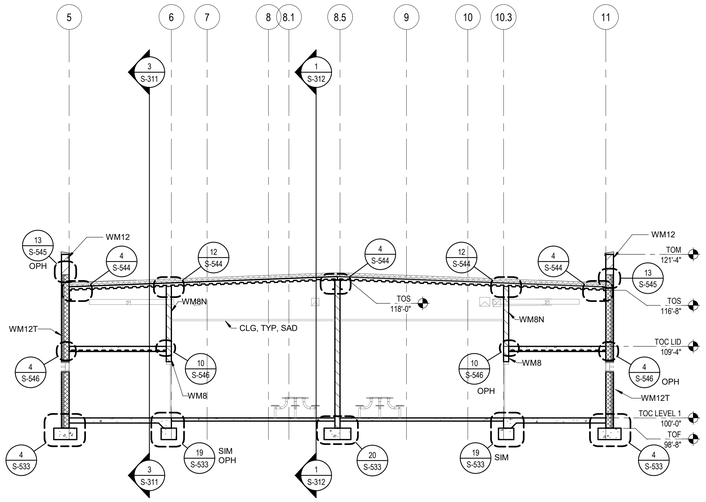
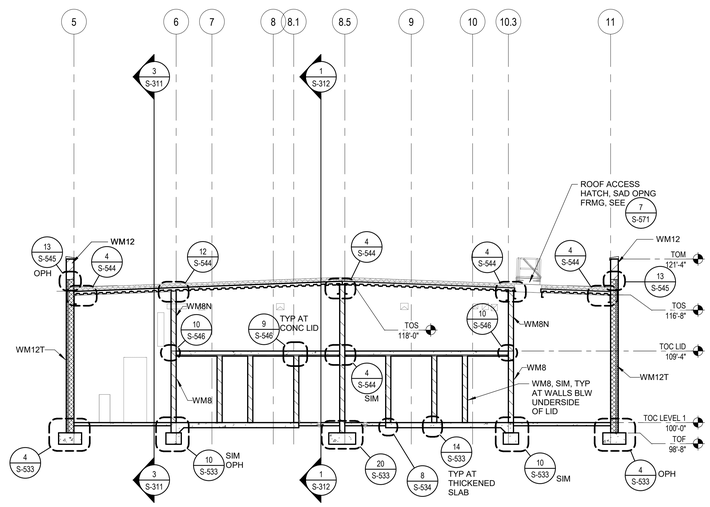


1 BUILDING SECTION

SCALE 1/8" = 1'-0"



2 BUILDING SECTION

SCALE 1/8" = 1'-0"

NOTES

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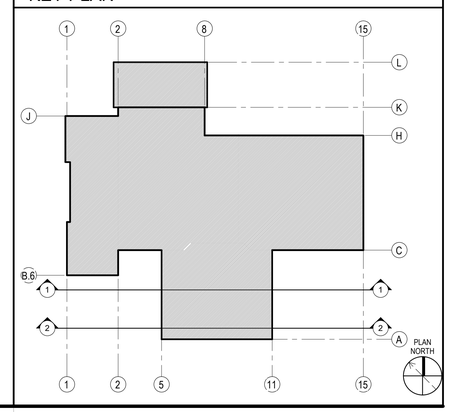
Draft

KEY PLAN



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GOVMOTUS No:22-N-3854-CP-DR

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08/30/2023

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MONO COUNTY NEW JAIL

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CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
SECTIONS - BUILDING

SHEET
S-315

V1

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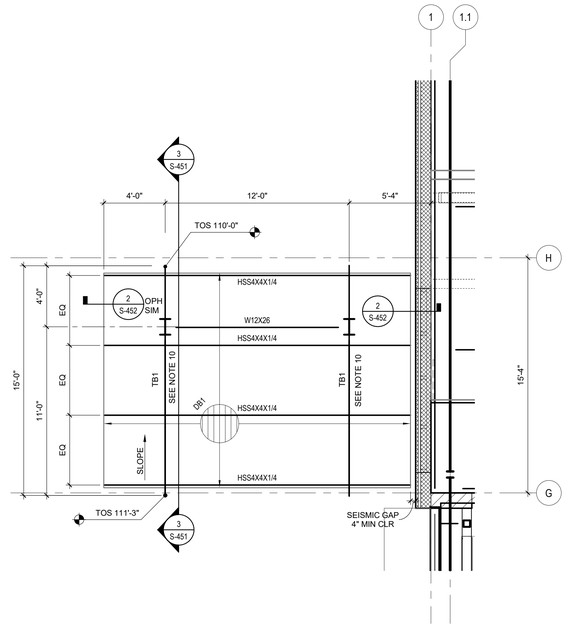
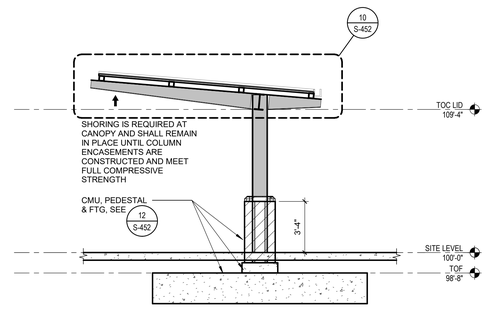


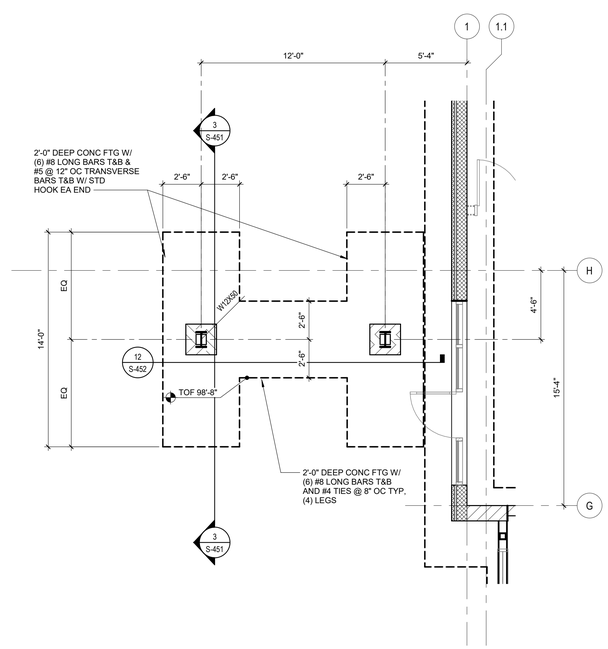
1 ENLARGED PLAN - CANOPY FRAMING

SCALE 1/4" = 1'-0"



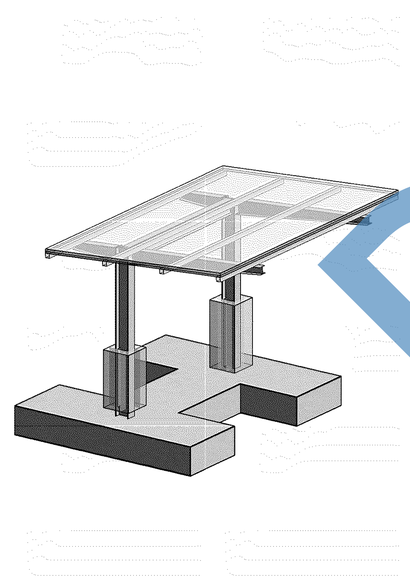
3 CANOPY SECTION

SCALE 1/4" = 1'-0"



2 ENLARGED PLAN - ENTRY CANOPY FOUNDATION

SCALE 1/4" = 1'-0"



4 3D VIEW

SCALE

NOTES

170828. Q2

1. SEE S-000 SERIES SHEETS FOR GENERAL NOTES & S-500 SERIES SHEETS FOR TYPICAL DETAILS.
2. DIMENSIONS ARE TO FOM, FOS, OR CENTERLINE OF COLUMNS/POSTS, UNO. SEE SECTIONS & DETAILS FOR FOC LOCATIONS RELATIVE TO FOS.
3. SEE ARCH DWGS FOR DIMENSIONS OF SLAB DEPRESSIONS & SLOPED SLABS. SEE ALSO CIVIL DWGS FOR SLOPED SLABS.
4. SEE ARCH & OTHER CONSULTANT DWGS FOR FLOOR PENETRATIONS NOT SHOWN. SAWCUT OR CORE DRILL CLEAN HOLES WITH NO OVERCUTTING. COMPLY WITH TYPICAL DETAILS.
5. SEE CIVIL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR ENGINEERED FILL.
6. EXTERIOR CONCRETE FLATWORK IS NOT SHOWN, SEE CIVIL & ARCH DWGS.
7. CONTINUOUS WALL FOOTINGS TO BE CENTERED UNDER WALLS AND PAD FOOTINGS TO BE CENTERED UNDER COLUMNS, TYP UNO.
8. TOP OF FOOTINGS SHALL BE 1'-4" BELOW FINISHED FLOOR (TOF 98'-8"), TYP UNO. SEE ARCH AND OTHER CONSULTANT DRAWINGS FOR UTILITIES THAT WILL AFFECT FOOTINGS AND COMPLY WITH TYPICAL DETAILS.
9. BEAMS ARE EQUALLY SPACED BETWEEN STRUCTURAL WALL AND COLUMNS, UNO.
10. TB1 = TAPERED BEAM. SEE DETAILS FOR ADDITIONAL INFORMATION.

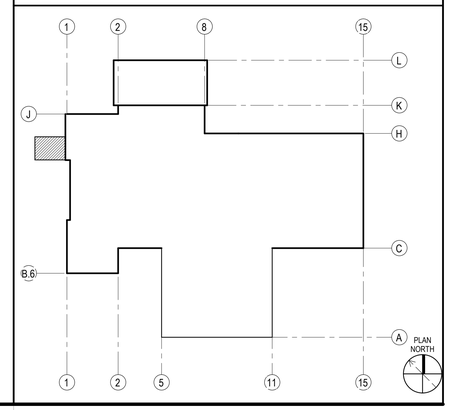
SCHEDULES

DECK SCHEDULE Q1

TYPE	DECK TYPE	DECK GA	CONC FILL	REINF	DETAIL
DB1	1 1/2" TYPE "B"	18	-	-	

Draft

KEY PLAN



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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER GARRION E. HUNTER No. S4785 STRUCTURAL STATE OF CALIFORNIA
08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
ENLARGED PLANS - ENTRY CANOPY

SHEET
S-451

V1

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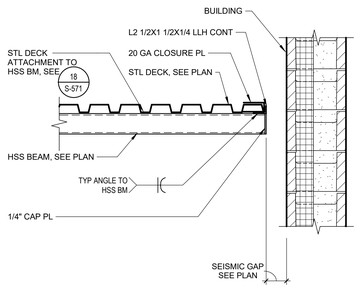
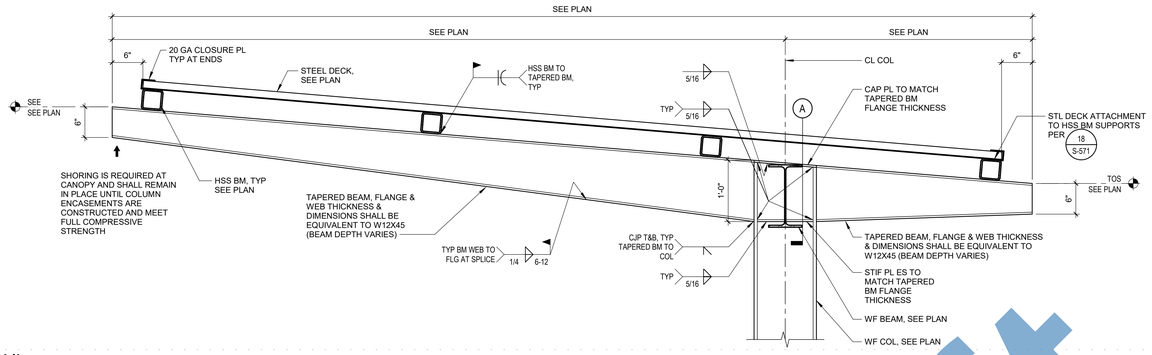
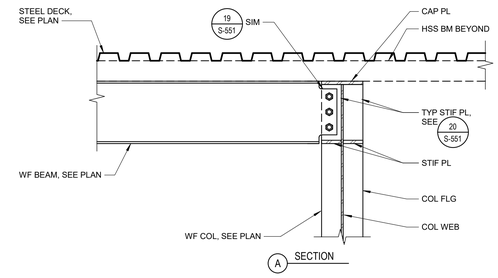


2 DETAIL
1" = 1'-0"





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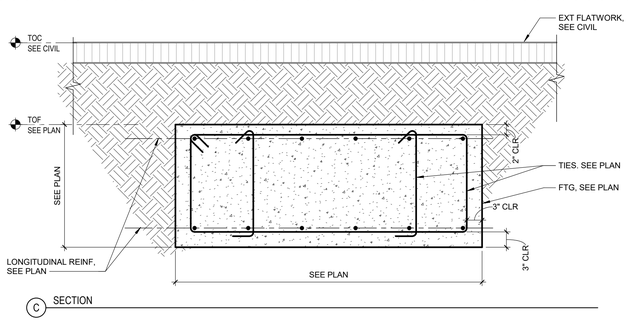
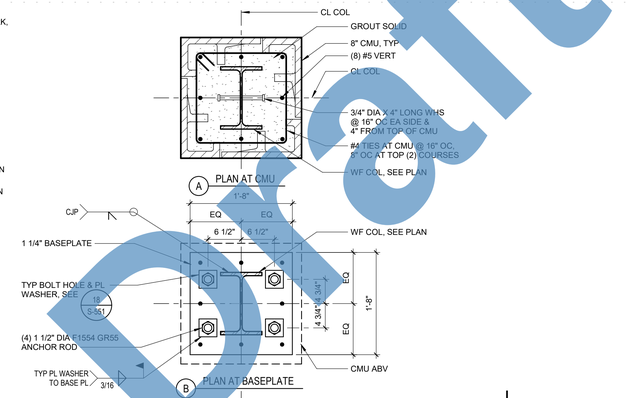
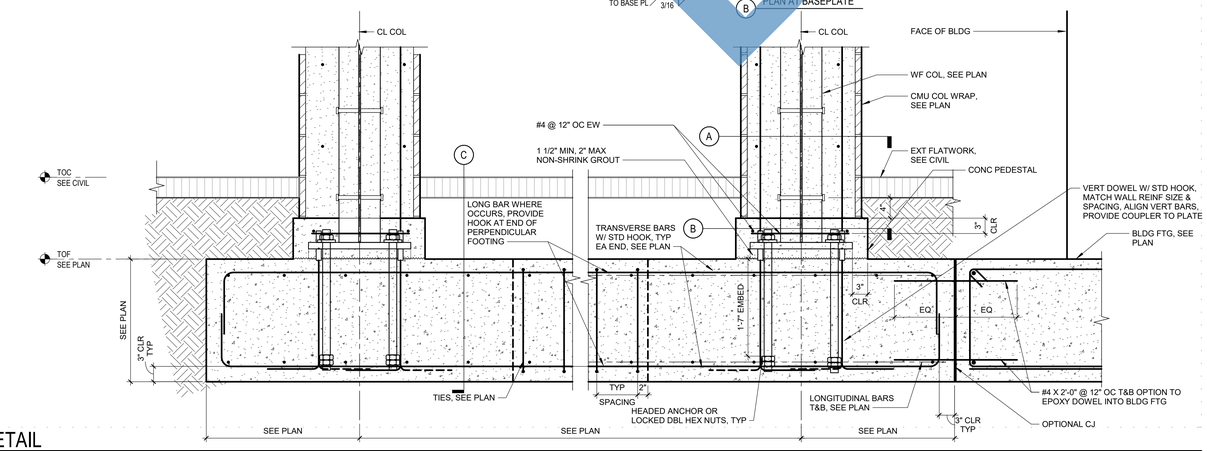
1" = 1'-0"

S-_048200_T061A
190129. Q2







12 DETAIL
1" = 1'-0"

S-_048200_T061A
190129. Q2

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GOVMOTUS No:22-N-3854-CP-DR

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MONO COUNTY NEW JAIL

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
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TITLE
DETAILS - ENTRY CANOPY

SHEET
S-452

V1

BIM 360:/018133.Mono Jail/018133_ARCHMSTR_R20_CENTRAL.rvt

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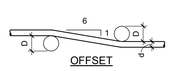
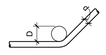
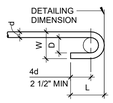


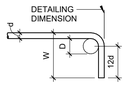
OFFSET



BEND



180 DEG HOOK



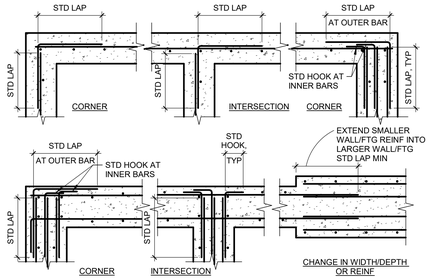
90 DEG HOOK

REBAR SIZE	DIA D	180 DEG HOOK		90 DEG HOOK	
		W (TOL +/-)	L (TOL +/-)	W (TOL +/-)	
#3	6xd	3" (1/2")	4" (1/2")	6" (1")	
#4	6xd	4" (1/2")	4 1/2" (1/2")	8" (1")	
#5	6xd	5" (1/2")	5" (1/2")	10" (1")	
#6	6xd	6" (1/2")	6" (1/2")	12" (1")	
#7	6xd	7" (1/2")	7" (1/2")	14" (1")	
#8	6xd	8" (1/2")	8" (1/2")	16" (1")	
#9	8xd	12" (1/2")	11" (1/2")	20" (1")	
#10	8xd	13" (1/2")	12" (1/2")	22" (1")	
#11	8xd	14" (1/2")	13" (1/2")	24" (1")	
#14	10xd	21" (1 1/2")	17" (1 1/2")	31" (2 1/2")	
#18	10xd	27" (2")	23" (2")	41" (3 1/2")	

NOTES:
1. D = MINIMUM FINISHED INSIDE BEND DIA, d = NOMINAL REBAR DIAMETER
2. TOL = TOLERANCE (PER ACI 117)

1 TYP REBAR BENDS AND HOOKS

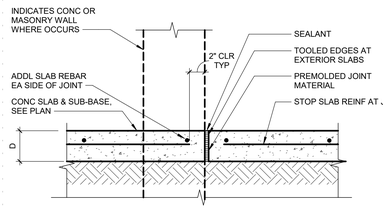
SCALE: NTS — S-_032000_T001A 140127



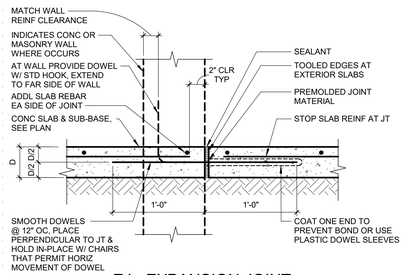
NOTES:
1. CORNER/INTERSECTION BARS SHALL MATCH CONT FOOTING SIZE/LOCATION. WHERE BAR SIZES AT INTERSECTING FOOTINGS ARE DIFFERENT, BAR SIZE SHALL MATCH SMALLER OF BARS.
2. IT IS ACCEPTABLE TO PROVIDE CONT BAR AROUND CORNERS/INTERSECTIONS IN LIEU OF STD LAP.
3. REINFORCING SHALL BE CONTINOUS THROUGH PAD FTGS, COLS, UNO.
4. CONDITIONS SHOWN ARE SIMILAR FOR OTHER BAR QUANTITIES.

5 TYP CONC FTG / WALL REINF AT CORNERS AND INTERSECTIONS

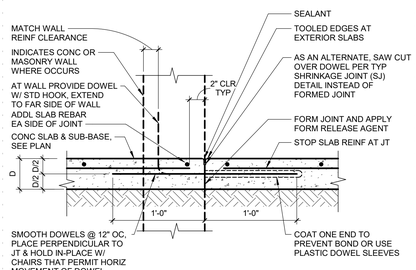
SCALE: NTS — S-_033000_T002A 200304



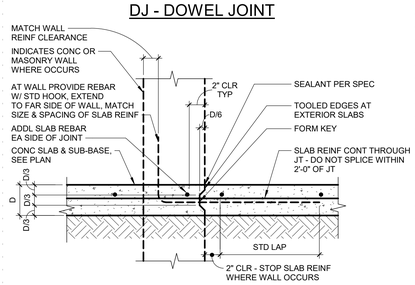
IJ - ISOLATION JOINT



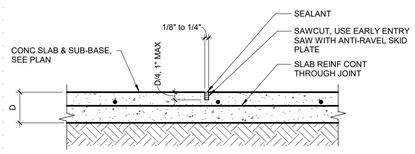
EJ - EXPANSION JOINT



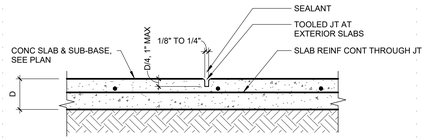
DJ - DOWEL JOINT



CJ - CONSTRUCTION JOINT



SJ - SHRINKAGE JOINT

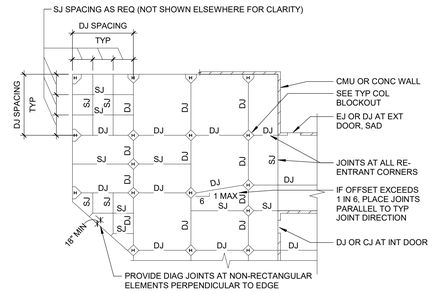


TJ - TOOL JOINT

NOTES:
1. D = DEPTH SLAB, SEE PLANS
2. SMOOTH DOWELS SHALL HAVE SAW CUT ENDS - DO NOT SHEAR. USE 1/2" DIA FOR D UP TO 4", 3/4" DIA FOR D UP TO 6", 1" DIA FOR D UP TO 8", 1 1/4" DIA FOR D UP TO 10", & 1 1/2" DIA FOR D OVER 10".
3. SAWCUTTING AND TOOLING SHALL OCCUR AS SOON AS CONCRETE IS HARD ENOUGH SO THAT IT WILL NOT BE TORN OR DAMAGED AND BEFORE INITIAL SHRINKAGE HAS STARTED.

12 TYP JOINTS AT CONC SLAB

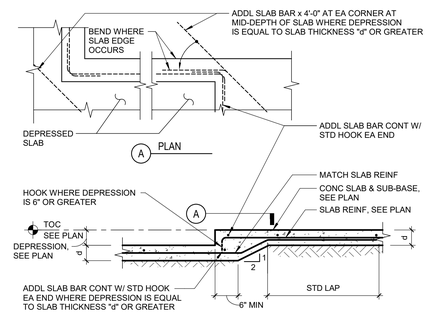
SCALE: NTS — S-_033000_T025A 150630



NOTES:
1. DJ SPACING TO BE 36'-0" MAX EW. ALIGN WITH COLUMN SPACING OR MODULE WHERE OCCURS.
2. SJ SPACING TO BE 12'-0" MAX EW. SPACE EQUALLY BTWN DJ'S AND SLAB EDGES.
3. PROVIDE SJ ALIGNED W/ CENTERLINE OF COLUMNS WHERE NO DJ OCCURS.
4. SEE PLANS AND DETAILS FOR CONDITION AT EDGE OF SLAB.
5. LENGTH TO WIDTH RATIO OF ANY INDIVIDUAL ELEMENT NOT TO EXCEED 1 1/2 TO 1, TYP
6. PROVIDE JOINTS PARALLEL AND PERPENDICULAR TO BLDG COL LINES, TYP UNO.

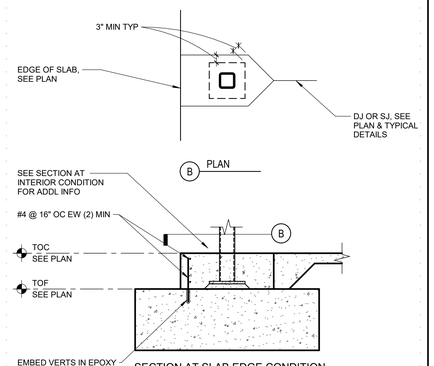
13 TYP INT SLAB JOINT LAYOUT

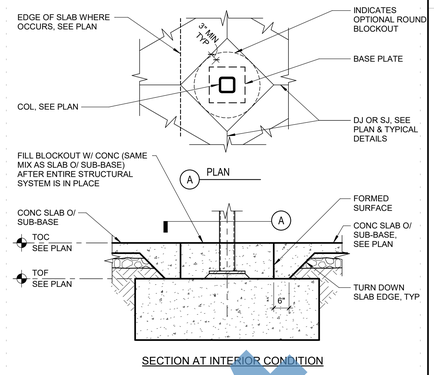
SCALE: NTS — S-_033000_T024A 170517



14 TYP DEPRESSION IN CONC SLAB

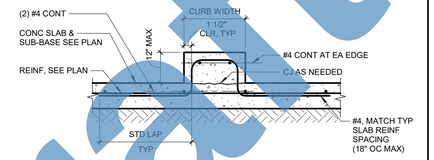
SCALE: NTS — S-_033000_T019A 140127



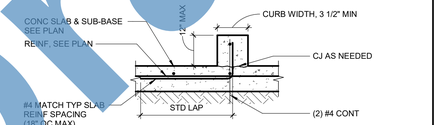


18 TYP COL BLOCKOUT

SCALE: NTS — S-_033000_T042A 150807. Q2



CURBS WIDER THAN 8" & LESS THAN 24"

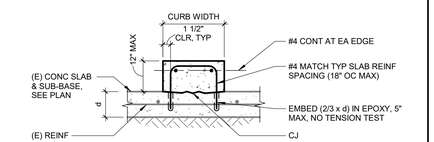


CURBS 8" WIDE OR LESS

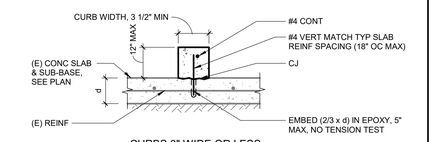
NOTES:
1. SEE OTHER CONSTRUCTION DOCUMENTS FOR CURB LOCATIONS, DIMENSIONS, INSERTS & SHAPES.
2. SEE TYPICAL DETAILS FOR CURB DIMENSIONS RELATIVE TO STUD WALLS.

19 TYP CURB AT CONC SLAB

SCALE: NTS — S-_033000_T009A 150107. Q2



CURBS WIDER THAN 8" & LESS THAN 24"

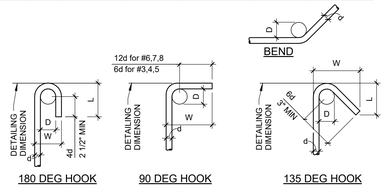


CURBS 8" WIDE OR LESS

NOTES:
1. SEE CONSTRUCTION DOCUMENTS FOR CURB LOCATIONS, DIMENSIONS, INSERTS & SHAPES.
2. SEE TYPICAL DETAILS FOR CURB DIMENSIONS RELATIVE TO STUD WALLS.

20 TYP CURB AT (E) CONC SLAB

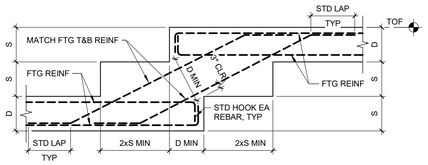
SCALE: NTS — S-_033000_T007A 150107. Q2



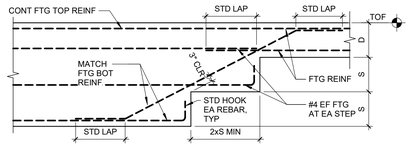
NOTES:
1. D = MINIMUM FINISHED INSIDE BEND DIA, d = NOMINAL REBAR DIAMETER
2. TOL = TOLERANCE (PER ACI 117)

2 TYP REBAR HOOP, STIRRUP, TIE HOOKS & BENDS

SCALE: NTS — S-_032000_T002A 140127



STEPPED TOP AND BOTTOM



STEPPED BOTTOM

NOTES:
1. D = DEPTH FTG, S = STEP AT FTG (1'-6" MAX).
2. TWO STEPS SHOWN. SINGLE STEPS OR MULTIPLE STEPS SIMILAR.
3. SEE PLANS FOR FOOTING SIZE AND REINFORCING.
4. VERT / TIE / DOWEL REINF NOT SHOWN FOR CLARITY. PROVIDE TYP TO BOT OF FOOTING & STEP.

6 TYP STEPPED FOOTING

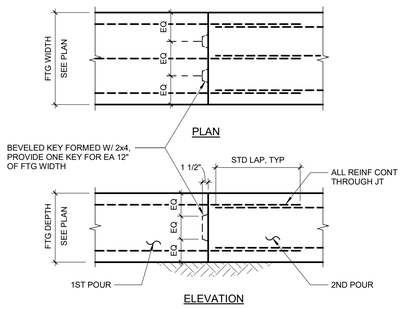
SCALE: NTS — S-_033000_T003A 150630

f'c (psi)		#3	#4	#5	#6	#7	#8	#9	#10	#11
		NWC	NWC	NWC	NWC	NWC	NWC	NWC	NWC	NWC
4,000	TOP	25	33	41	49	71	81	91	102	114
	BOT	19	25	31	37	54	62	70	79	87
4,500	TOP	23	31	38	46	67	76	86	96	107
	BOT	18	24	30	35	51	59	66	74	82
5,000	TOP	22	29	36	44	63	72	81	92	102
	BOT	17	23	28	34	49	56	63	71	78

NOTES:
1. ALL LAP SPLICES SHALL BE FULL CONTACT SPLICES, UNO.
2. ADJACENT REINFORCING BEING LAP SPLICED MUST MEET ONE OF THE FOLLOWING CONDITIONS:
   A. CASE 1: THE CLEAR SPACING OF THE BARS IS NOT LESS THAN ONE BAR DIAMETER, CLEAR COVER IS NOT LESS THAN ONE BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT THE SPLICE LENGTH.
   B. CASE 2: THE CLEAR SPACING OF THE BARS IS NOT LESS THAN TWO BAR DIAMETERS AND THE CLEAR COVER IS NOT LESS THAN ONE BAR DIAMETER.
   C. FOR ALL OTHER CASES, MULTIPLY THE SPLICES SHOWN BY 1.5.
3. THE ABOVE VALUES ARE FOR: UNCOATED REINFORCEMENT, GRADE 60 REBAR, CLASS B.
4. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF NEW CONCRETE PLACED BELOW THE BAR. BOTTOM BARS ARE ALL OTHER HORIZONTAL OR VERTICAL REINFORCEMENT.

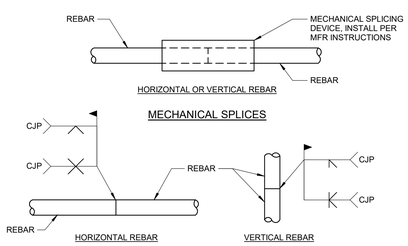
3 TYP CONCRETE REBAR LAP SPLICE LENGTHS (INCHES)

SCALE: NTS — S-_032000_T003A 190926. Q2



7 TYP CONSTRUCTION JOINT AT GRADE BEAM/CONTINUOUS FOOTING

SCALE: NTS — S-_033000_T001A 140127



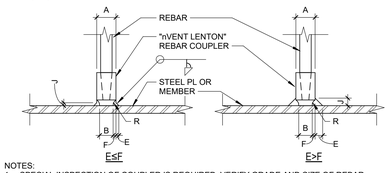
NOTES:
1. SPECIAL INSPECTION OF NON-LAP SPLICE FABRICATION AND INSTALLATION IS REQUIRED.
2. NON-LAP SPLICES SHALL BE CAPABLE OF DEVELOPING 125 PERCENT OF THE SPECIFIED YIELD STRENGTH OF THE REBAR IN BOTH TENSION AND COMPRESSION.
3. SUBMIT CURRENT ICC REPORT FOR MECHANICAL SPLICES FOR REVIEW PRIOR TO INSTALLATION.

4 TYP REBAR NON-LAP SPLICES

SCALE: NTS — S-_032000_T004A 140127

COUPLER FAMILY	REBAR SIZE	A	B	R	E	J	F
C2	#5	1.00"	0.56"	0.38"	0.130"	0.130"	0.22"
C3J	#6	1.25"	0.88"	0.38"	0.190"	0.190"	0.185"
C3J	#7	1.25"	0.88"	0.38"	0.190"	0.190"	0.185"

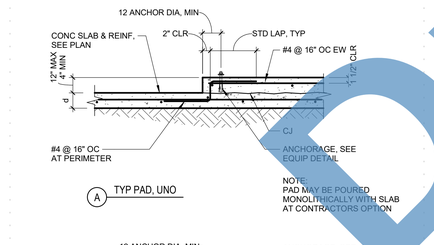
A = COUPLER DIAMETER
B = UNFUSED DIAMETER
R = ROOT RADIUS OF BUTT WELD BEVEL
E = FILLET WELD LEG LENGTH ON SUPPORTING MEMBER SIDE
J = FILLET WELD LEG LENGTH ON COUPLER SIDE
F = (A-B)/2

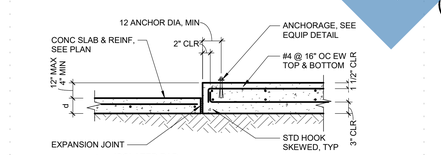


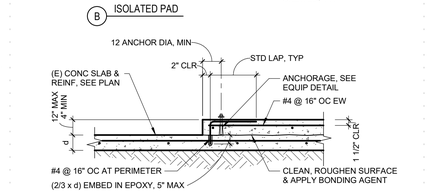
NOTES:
1. SPECIAL INSPECTION OF COUPLER IS REQUIRED: VERIFY GRADE AND SIZE OF REBAR, COUPLER IDENTIFICATION, POSITION OF COUPLER, AND INSTALLATION OF COUPLER TO REBAR.
2. INSTALL REBAR COUPLER PER MANUFACTURER INSTRUCTIONS AND IN ACCORDANCE WITH IES EVALUATION REPORT# 0129.
3. "nVENT LENTON" REBAR COUPLER COMPLIES WITH BOTH TYPE 1 AND TYPE 2 MECHANICAL SPLICE REQUIREMENTS IN ACCORDANCE WITH ACI 318-14 SECTION 18.2.7.1.

8 TYP REBAR COUPLER WELD TO STEEL MEMBER

SCALE: NTS







16 TYP HOUSEKEEPING PADS

SCALE: NTS — S-_033000_T022A 140127

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MONO COUNTY NEW JAIL

221 TWIN LAKES RD
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ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
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TITLE
DETAILS - TYPICAL CONCRETE

SHEET
S-531

V1

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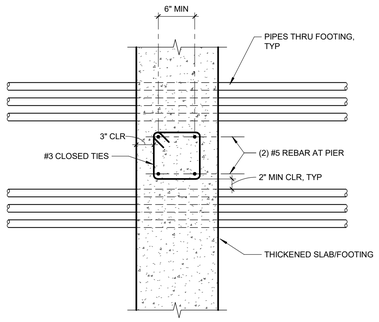
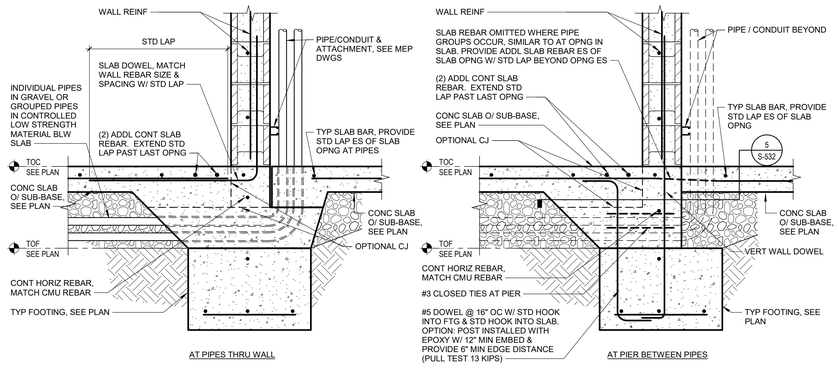


5 TYP GROUPS OF PIPES UNDER SLAB AND OVER FOOTING

1" = 1'-0"

R-_033000_T046A
190204. Q1



2 TYP GROUPS OF PIPES UNDER SLAB AND OVER FOOTING

SCALE: NTS

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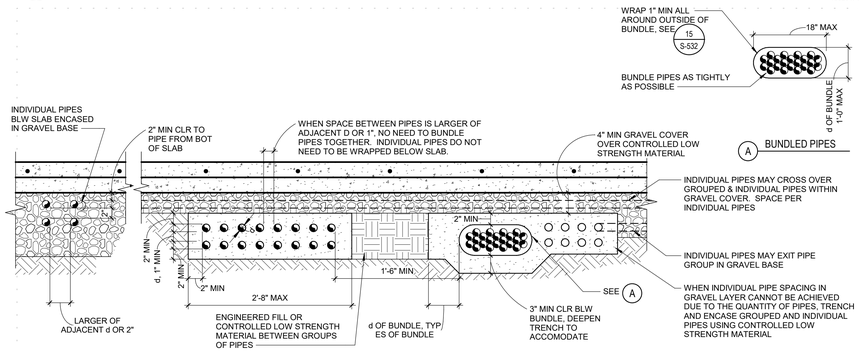
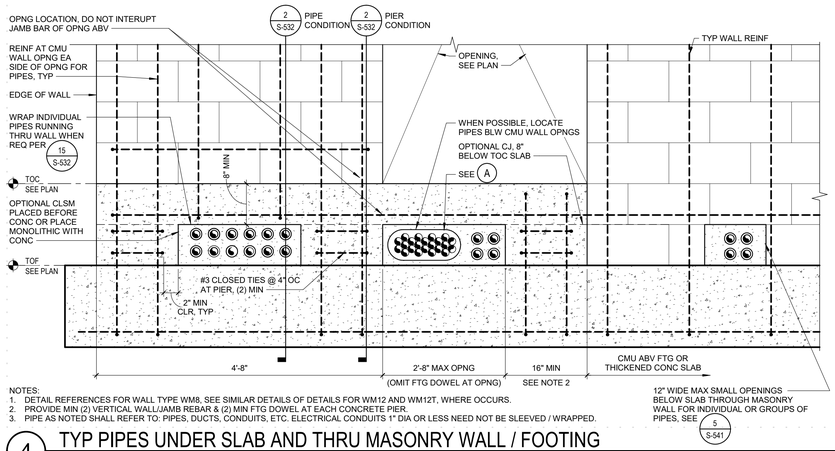
190204. Q1



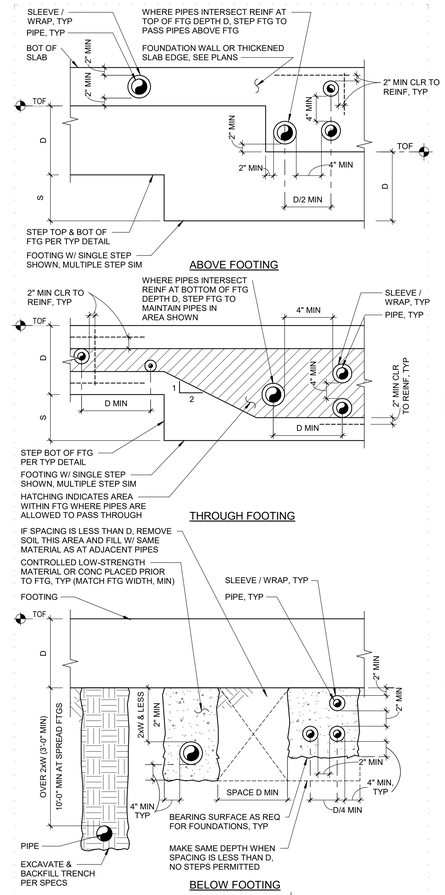


NOTES:
1. DETAIL REFERENCES FOR WALL TYPE WM8, SEE SIMILAR DETAILS OF DETAILS FOR WM12 AND WM12T, WHERE OCCURS.
2. PROVIDE MIN (2) VERTICAL WALL/JAMB REBAR & (2) MIN FTG DOWEL AT EACH CONCRETE PIER.
3. PIPE AS NOTED SHALL REFER TO: PIPES, DUCTS, CONDUITS, ETC. ELECTRICAL CONDUITS 1" DIA OR LESS NEED NOT BE SLEEVED / WRAPPED.

4 TYP PIPES UNDER SLAB AND THRU MASONRY WALL / FOOTING

SCALE: NTS

R-_033000_T044A
190204. Q1

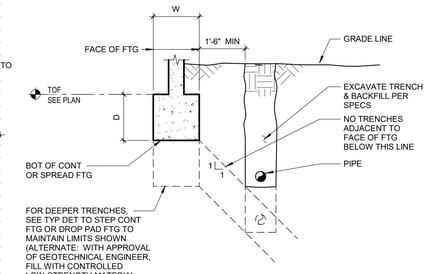


NOTES:
1. D = DEPTH FOOTING, W = WIDTH FOOTING, S = STEP AT FOOTING.
2. PIPE AS NOTED SHALL REFER TO: PIPES, DUCTS, CONDUITS, ETC. ELECTRICAL CONDUITS 1" DIA OR LESS NEED NOT BE SLEEVED / WRAPPED.
3. THIS DETAIL APPLIES AT ALL 18" DIA PIPE & SMALLER.
4. THIS DETAIL SHALL APPLY IN ALL CASES WHERE A PIPE MUST CROSS A FOOTING. COORDINATE ELEVATIONS AND LOCATIONS OF ALL PIPES & FOOTINGS ACCORDINGLY. CONTACT STRUCTURAL ENGINEER FOR CONDITIONS NOT COVERED.
5. PIPES SHALL BE SLEEVED OR WRAPPED AS SHOWN. SLEEVE INSIDE DIAMETERS SHALL BE MIN 2" (4" FOR SPRINKLER PIPES 4" & LARGER) LARGER THAN PIPE OUTSIDE DIAMETER. CENTER PIPES WITHIN SLEEVE. PIPES IN PLACE PRIOR TO PLACING CONC MAY BE WRAPPED W/ 1" (2" FOR SPRINKLER PIPES 4" & LARGER) THICK COMPRESSIBLE FOAM INSTEAD OF SLEEVE.
6. SLEEVE / WRAP SHALL EXTEND THE FULL WIDTH OF FOOTING. SEAL ENDS OF SLEEVE / WRAP AS REQUIRED TO PREVENT WATER PENETRATION.
7. MULTIPLE PIPES SHALL COMPLY WITH THE HORIZONTAL AND VERTICAL SPACING SHOWN OR BE GROUPED INTO ONE LARGE BUNDLE WITHIN THE LIMITATIONS SHOWN. MULTIPLE BUNDLED PIPE GROUPS SHALL BE SPACED 4xD MIN OC.
8. PIPES AND SLEEVE / WRAP SHALL BE ADEQUATELY SUPPORTED AND SECURED AGAINST DISPLACEMENT BEFORE AND DURING CONCRETE PLACEMENT.
9. COORDINATE PIPE LOCATIONS SO THAT FOOTING REINFORCING IS NOT DISPLACED. MOVE PIPES TO MAINTAIN 2" CLR FROM REINFORCING TO SLEEVE / WRAP.
10. PIPES NEXT TO BUT NOT CROSSING FOOTING SHALL COMPLY WITH TYPICAL DETAIL FOR PIPE ADJACENT TO FOOTINGS.

15 TYP PIPE CROSSING FOOTINGS

SCALE: NTS

S-_033000_T016A
191114

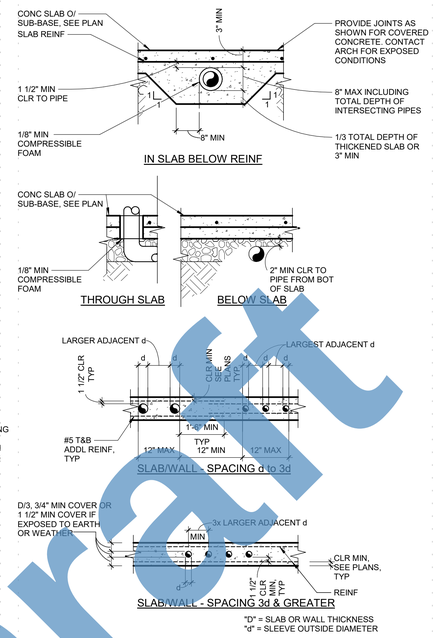


NOTES:
1. W = WIDTH FTG, D = DEPTH FTG.
2. TRENCHING LIMITATIONS ARE SAME FOR BOTH FACES OF FOOTING.
3. MAINTAIN LIMITS SHOWN FOR WIDER OR SHALLOWER FTG BEYOND, WHERE OCCURS.
4. PIPE AS NOTED SHALL REFER TO: PIPES, DUCTS, CONDUITS, ETC.

17 TYP PIPE ADJACENT TO FOOTING

SCALE: NTS

S-_033000_T015B
150630



NOTES:
1. PIPE AS NOTED SHALL REFER TO: PIPES, DUCTS, CONDUITS, ETC. ELECTRICAL CONDUITS 1" DIA OR LESS NEED NOT BE SLEEVED
2. PIPES SHALL BE INSTALLED SUCH THAT CUTTING, BENDING OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
3. PIPES EMBEDDED IN SLABS & WALLS SHALL BE 2" MAX DIA & MIN SCHEDULE 40.

19 TYP PIPE AT SLABS / WALLS

SCALE: NTS

S-_033000_T026A
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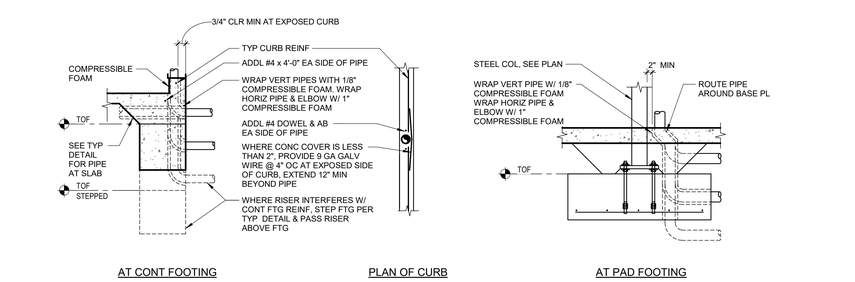

NOTES:
1. PIPE AS NOTED SHALL REFER TO: DUCTS, CONDUITS, ETC. ELECTRICAL CONDUITS 1" DIA OR LESS NEED NOT BE WRAPPED.
2. SEE TYP SILL PL DETAILS FOR ADDL REQUIREMENTS AT SILL PL PENETRATIONS.

16 TYP PIPE RISERS AT FOOTINGS

SCALE: NTS

S-_033000_T014B
191114. Q1

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MANAGEMENT

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TITLE
DETAILS - TYPICAL CONCRETE

SHEET
S-532

V1

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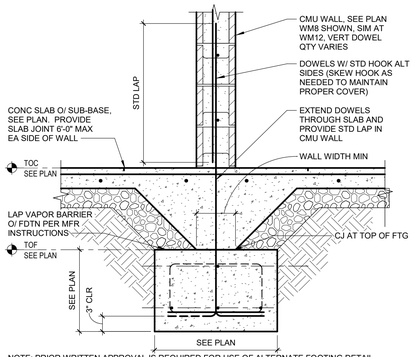
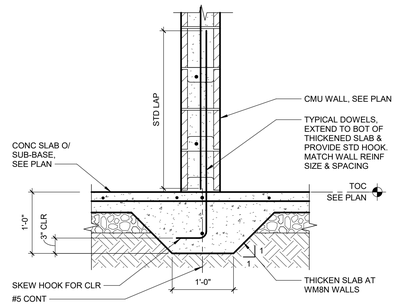


NOTE: PRIOR WRITTEN APPROVAL IS REQUIRED FOR USE OF ALTERNATE FOOTING DETAIL

17 ALT FOOTING AND SLAB AT INTERIOR MASONRY WALL

SCALE: NTS

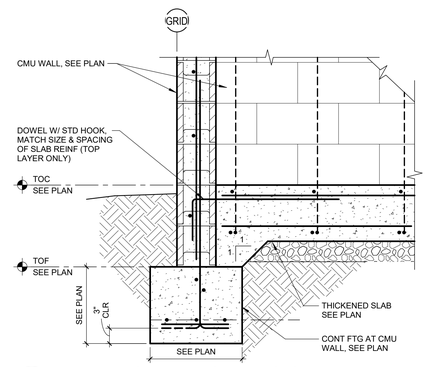
S-_048200_T062B
220418. Q2



6 TYP WM8N MASONRY WALL AT CONC THICKENED SLAB

SCALE: NTS

S-_048200_T019A
150505



10 TYP THICKENED SLAB TO CMU WALL

SCALE: NTS

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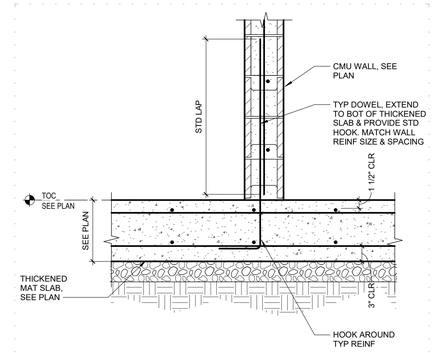
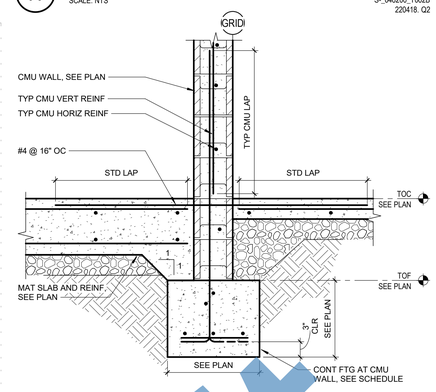
190207. Q1



14 TYP MASONRY WALL AT THICKENED MAT SLAB

SCALE: NTS

R-_048200_T064A
190207. Q2



18 TYP THICKENED SLAB AT INT CMU WALL

SCALE: NTS

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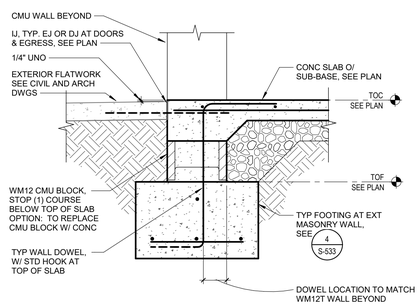
220418. Q2



3 TYP FTG AT WM12T MASONRY EXT OPNG

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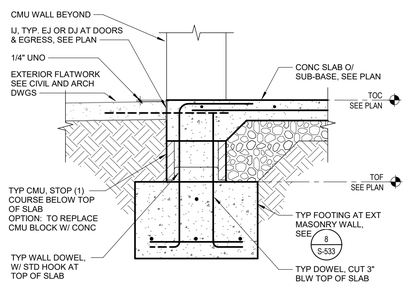
190207. Q2



7 TYP FTG AT WM12 MASONRY EXT OPNG

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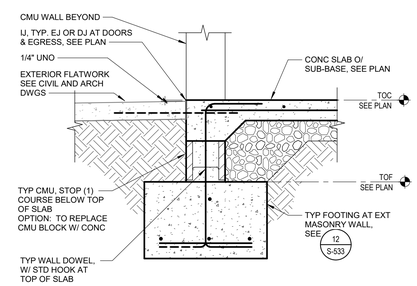

11 TYP FTG AT WM8 MASONRY EXT OPNG

SCALE: NTS

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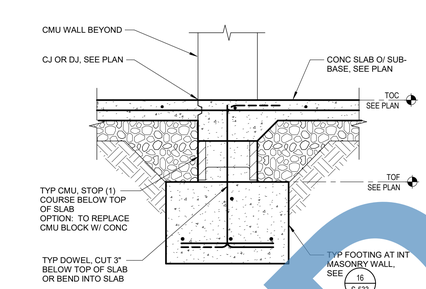
190207. Q2



15 TYP FOOTING AT WM12 MASONRY INT OPNG

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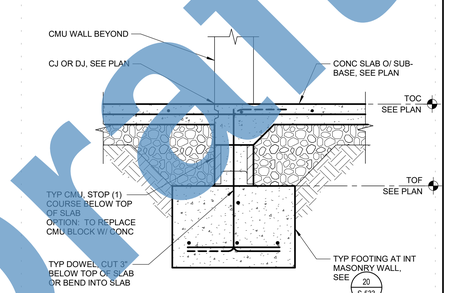

19 TYP FOOTING AT WM8 MASONRY INT OPNG

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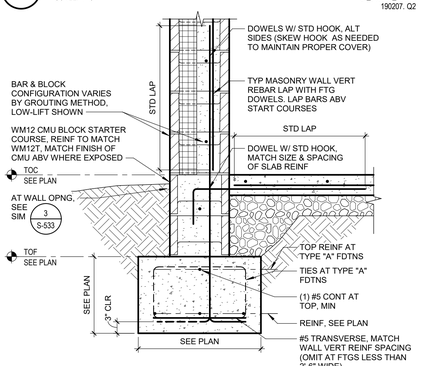

4 TYP FTG & SLAB AT EXT WM12T MASONRY WALL

SCALE: NTS

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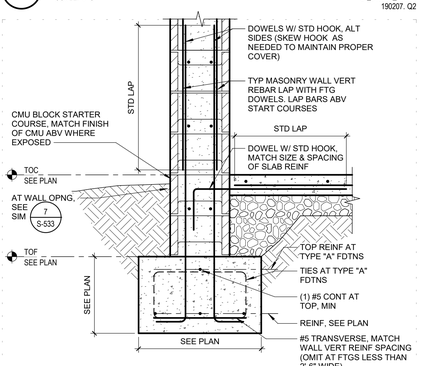
160629. Q2



8 TYP FTG & SLAB AT EXT WM12 MASONRY WALL

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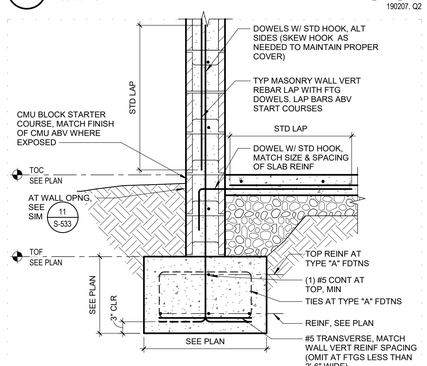

12 TYP FTG & SLAB AT EXT WM8 MASONRY WALL

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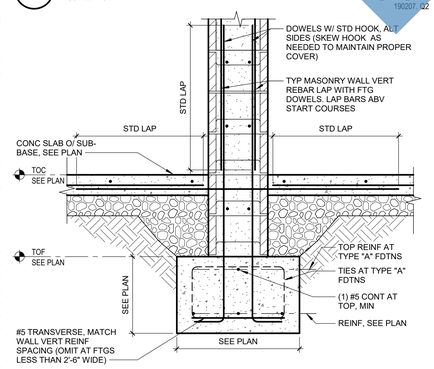
160629. Q2



16 TYP FTG & SLAB AT INT WM12 MASONRY WALL

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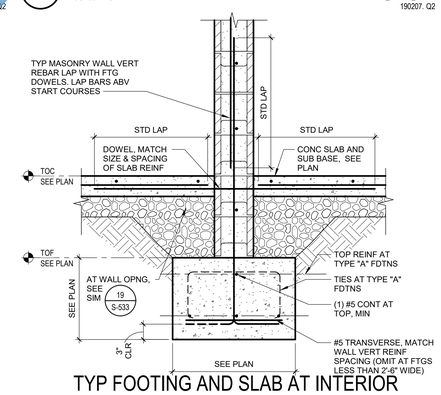

20 TYP FOOTING AND SLAB AT INTERIOR WM8 MASONRY WALL

SCALE: NTS

S-_048200_T062A
220418. Q2

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TITLE

DETAILS - TYPICAL CONCRETE FOUNDATIONS AT MASONRY

SHEET

S-533

V1

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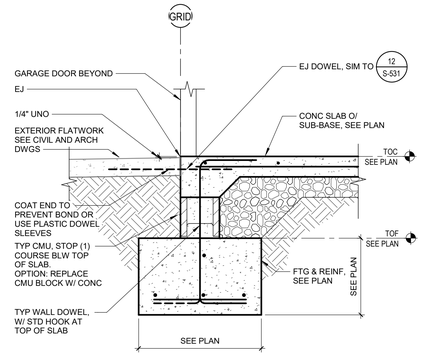

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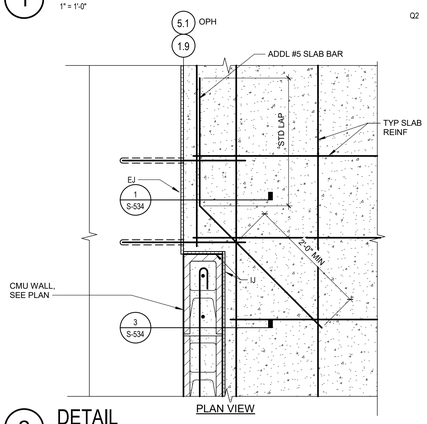

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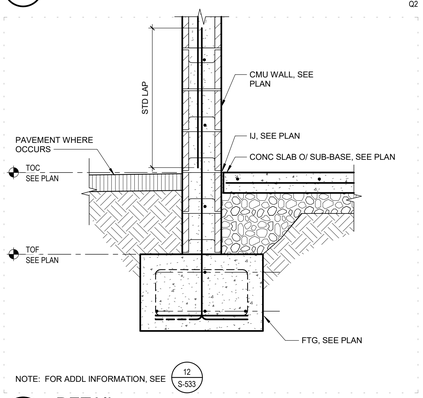

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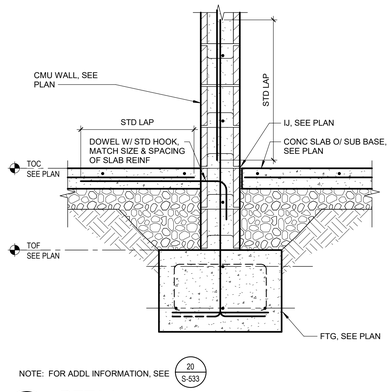

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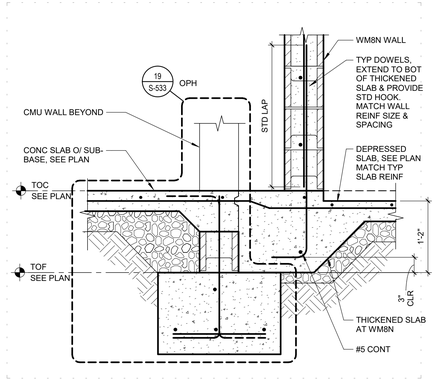

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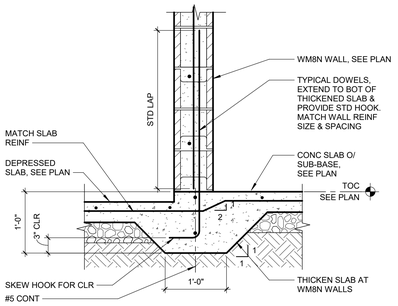

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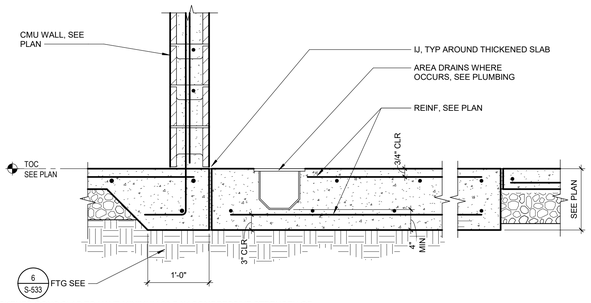
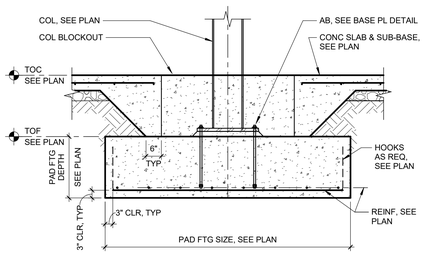
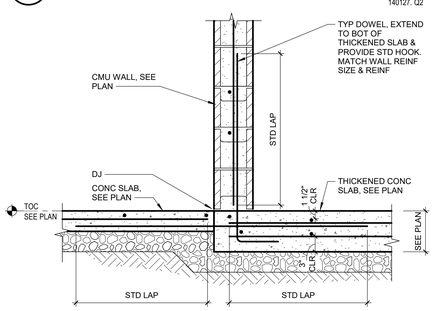


NOTE:
1. THICKENED CONC SLAB TO HAVE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI - SEE LAUNDRY EQUIPMENT DWGS FOR WASHING MACHINE ANCHORAGE

14 TYP MAT SLAB AT LAUNDRY EQUIP
1" = 1'-0"
R-_048200_T063A
Q2



7 PAD FOOTING
1/2" = 1'-0"
S-_033000_C014A
140127. Q2



8 DETAIL
SCALE: NTS
R-_048200_T063A
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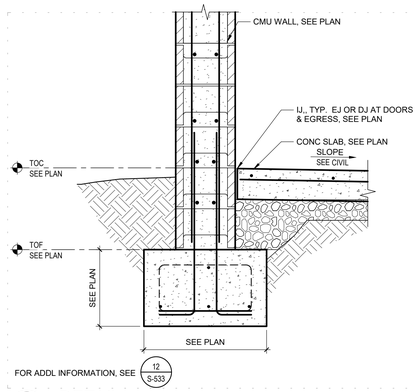
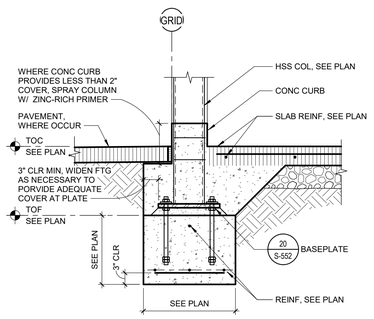
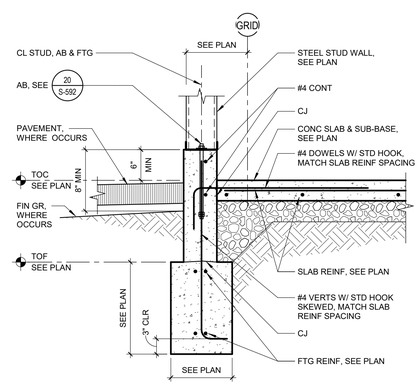


12 DETAIL
1" = 1'-0"
Q2



16 DETAIL
3/4" = 1'-0"



20 DETAIL
SCALE: NTS
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210402. Q2

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER GARRION E. HUNTINGTON No. S4785 STRUCTURAL OF CALIFORNIA
08/30/2023

PROJECT
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221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:	
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TITLE
DETAILS - CONCRETE FOUNDATIONS

SHEET
S-534

V1

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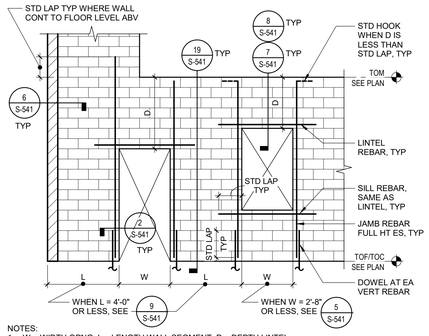
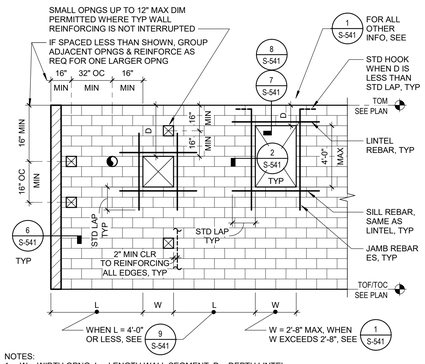


NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. PROVIDE TYP REINFORCING FOR REMAINDER OF WALL.

1 TYP MASONRY LARGE OPNGS

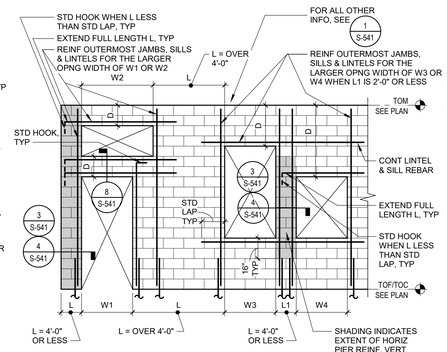
1/4" = 1'-0" S-_048200_T020B 150427



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. PROVIDE TYP REINFORCING FOR REMAINDER OF WALL.

5 TYP MASONRY SMALL OPNGS

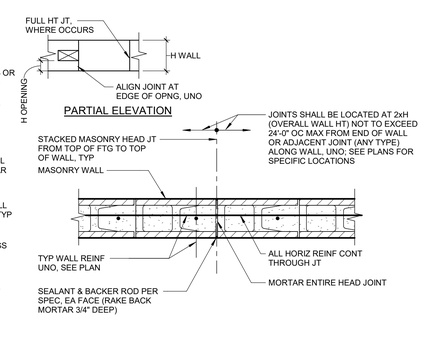
1/4" = 1'-0" S-_048200_T020C 150427



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. PROVIDE TYP REINFORCING FOR REMAINDER OF WALL.

9 TYP MASONRY ADJACENT OPNGS

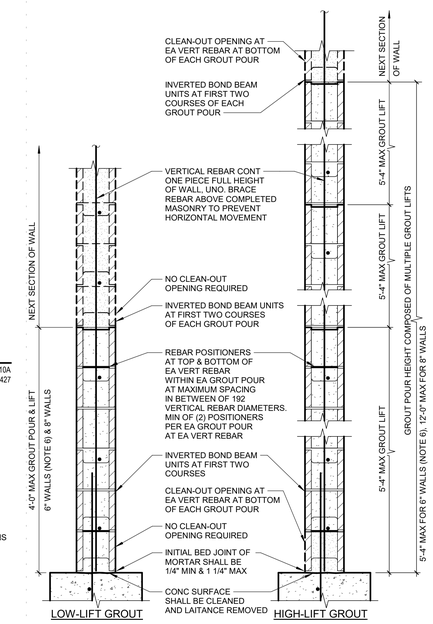
1/4" = 1'-0" S-_048200_T020D 150427



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.

13 TYP MASONRY RAKE JOINT (MRJ)

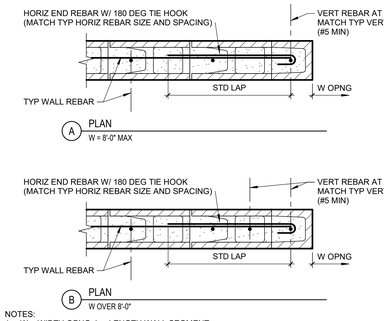
SCALE: NTS S-_048200_T010A 150427



NOTES:
1. WALLS MAY BE CONSTRUCTED USING LOW-LIFT OR HIGH-LIFT GROUTING METHOD.
2. DO NOT PLACE GROUT UNTIL ALL MASONRY UNITS, TIES, REBAR, BOLTS, EMBEDDED ITEMS & CLEAN-OUT CLOSURES ARE IN PLACE & SECURED IN POSITION TO THE TOP OF EACH GROUT POUR. GROUT ALL CELLS SOLID.
3. PROVIDE GROUT CONSTRUCTION JOINT AT TOP OF EACH GROUT POUR, SEE TYP DETAIL.
4. AFTER LOWER SECTION IS GROUTED AND PROPERLY CURED, LAY-UP & GROUT NEXT SECTION OF WALL TO GROUT POUR HEIGHT LIMITATIONS NOTED.
5. GROUT LIFT AND GROUT POUR HEIGHTS SHALL NOT EXCEED THE CLEAR GROUT SPACE LIMITATIONS OF THE BUILDING CODE OR THE MAXIMUM HEIGHTS INDICATED. PRIOR TO MASONRY CONSTRUCTION PROVIDE GROUT DEMONSTRATION PANELS FOR ALTERNATE GROUT SPACES OR HEIGHTS.
6. FOR 6" WALLS THE MAXIMUM GROUT LIFT AND GROUT POUR HEIGHT IS PERMITTED IF ALL OVERHANGING MORTAR PROTRUSIONS ARE REMOVED. OTHERWISE THE MAXIMUM GROUT LIFT AND GROUT POUR HEIGHT IS 1'-0".

18 TYP MASONRY GROUTING

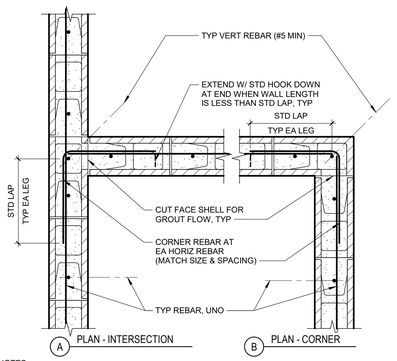
SCALE: NTS S-_048200_T017A 150427



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. VERT REBAR SHALL HAVE MATCHING DOWELS AT FTG W/ STD LAP, TYP
3. HORIZ END REBAR NOT REQ AT SITE WALLS.

2 TYP MASONRY JAMB / END

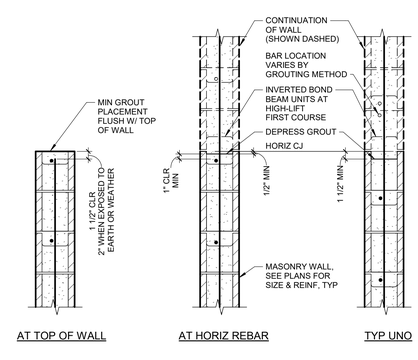
1" = 1'-0" S-_048200_T052A 180809



NOTES:
1. VERT REBAR SHALL HAVE MATCHING DOWELS AT FTG W/ STD LAP, TYP

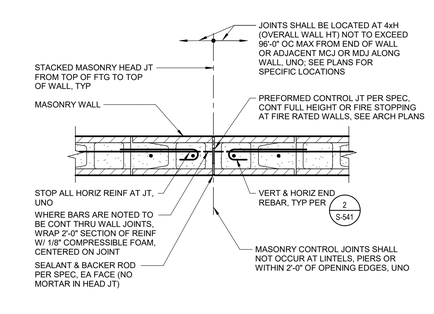
6 TYP MASONRY INTERSECTIONS

1" = 1'-0" S-_048200_T021B 180425



10 TYP MASONRY GROUT CJ

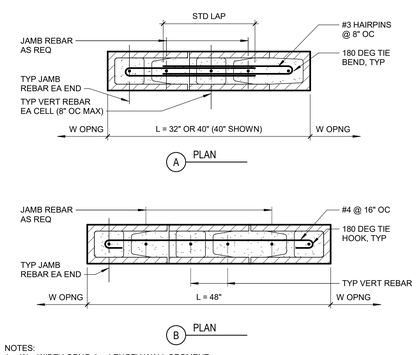
SCALE: NTS S-_048200_T006A 150706



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.
2. HORIZ END REBAR NOT REQ AT SITE WALLS.

14 TYP MASONRY CONTROL JOINT (MCJ)

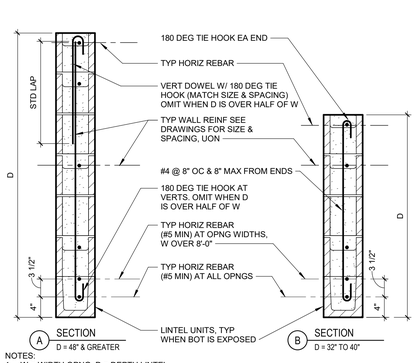
SCALE: NTS S-_048200_T007A 190425



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.
3. SEE TYPICAL DETAILS & PLANS FOR TYP VERT / JAMB REBAR.

3 TYP MASONRY LONG PIER

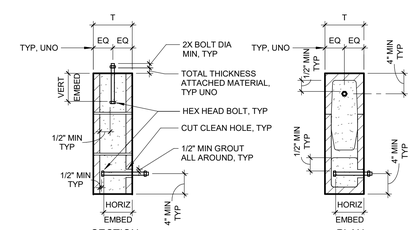
1" = 1'-0" S-_048200_T051A 190425



NOTES:
1. W = WIDTH OPNG, D = DEPTH LINTEL.
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.

7 TYP MASONRY LINTEL

1" = 1'-0" S-_048200_T004A 180425

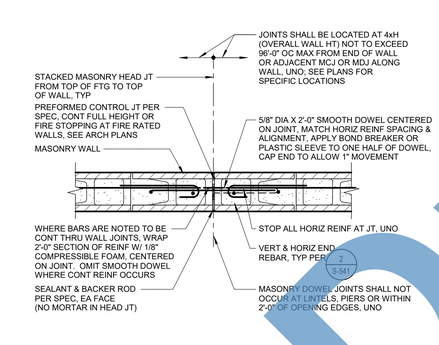


NOMINAL WALL THK (T)	MINIMUM EMBED		BOLT DIA	
	HORIZ	VERT	TYP UNO	MAX
6"	3"	6"	3/8"	1/2"
8"	4"	8"	5/8"	3/4"

NOTES:
1. PROVIDE 1" MIN CLEAR BETWEEN ADJACENT ANCHOR BOLTS.
2. REINFORCING NOT SHOWN FOR CLARITY.
3. TOTAL THICKNESS ATTACHED MATERIAL INCLUDES WASHERS & GROUT OR DRYPACK.

11 TYP BOLT EMBED IN MASONRY

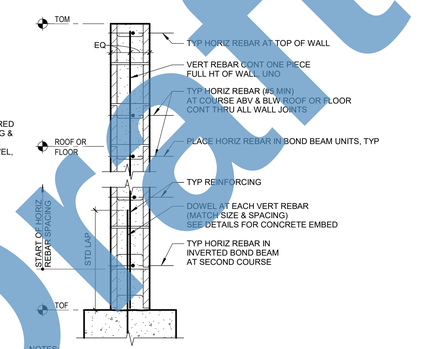
SCALE: NTS S-_048200_T004A 190506



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.
2. HORIZ END REBAR NOT REQ AT SITE WALLS.

15 TYP MASONRY DOWEL JOINT (MDJ)

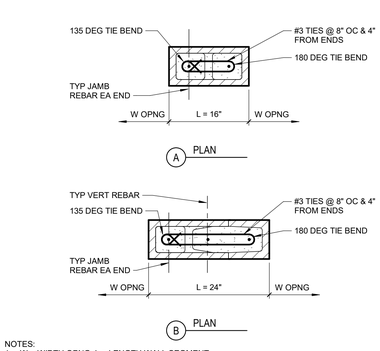
SCALE: NTS S-_048200_T008A 190425



NOTES:
1. SEE PLANS AND DETAILS FOR SPECIAL CONDITIONS.
2. AT 4" HIGH UNITS, PROVIDE INVERTED BOND BEAM UNITS ABOVE ALL HORIZ REBAR.
3. LOCATE REBAR LAPS, SPLICES & DOWELS IN SAME PLANE AS PRIMARY REINFORCING.

19 TYP MASONRY WALL REINF

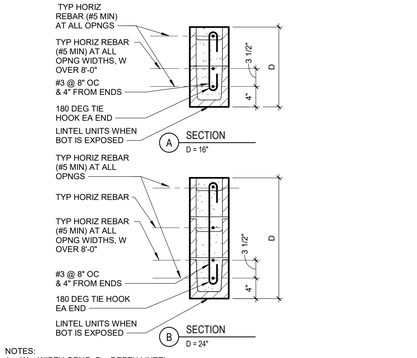
SCALE: NTS S-_048200_T024B 190506



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.
3. SEE TYPICAL DETAILS & PLANS FOR TYP VERT / JAMB REBAR.

4 TYP MASONRY SHORT PIER

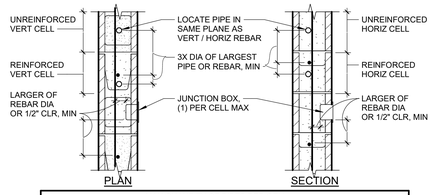
1" = 1'-0" S-_048200_T050A 150701



NOTES:
1. W = WIDTH OPNG, D = DEPTH LINTEL
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.

8 TYP MASONRY SHALLOW LINTEL

1" = 1'-0" S-_048200_T055A 190506

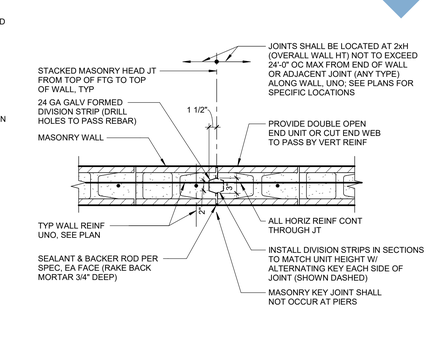


MAX QUANTITY OF PIPES PER CELL												
NOMINAL WALL THICKNESS	1/2" DIA		3/4" DIA		1" DIA		1 1/4" DIA		1 1/2" DIA		COMMENTS
	R	U	R	U	R	U	R	U	R	U	
6"	1	2	-	1	-	-	-	-	-	-	R = REINFORCED CELL
8"	2	3	1	2	-	1	-	-	-	-	U = UNREINFORCED CELL

NOTES:
1. PIPE AS NOTED SHALL REFER TO: PIPES, CONDUITS OR SLEEVES.
2. ONLY RIGID PIPES ARE PERMITTED. NO ALUMINUM PERMITTED. DO NOT CROSS PIPES.
3. PIPES SHALL NOT BE EMBEDDED THAT WILL CONTAIN LIQUID, GAS, OR VAPORS: AT TEMPERATURES. HIGHER THAN 150°F, UNDER PRESSURES IN EXCESS OF 55 PSI, OR SUBJECT TO FREEZING.
4. WRAP PIPE SWEEPS & FITTINGS W/ 1/8" MIN THICK FOAM TAPE.
5. WHEN POSSIBLE LOCATE PIPES & JUNCTION BOXES IN CELLS THAT ARE UNREINFORCED. WHERE SPACING OR CLEARANCE CANNOT BE MAINTAINED OR REBAR IS INTERRUPTED, PROVIDE REINF AS REQ FOR TYPICAL MASONRY OPENING.
6. PLACE PIPE & FOAM TAPE 1/2" MIN CLR FROM INTERIOR MASONRY SURFACES.
7. EMBEDDED PIPES SHALL NOT CROSS MASONRY DOWEL, CONTROL, KEY OR RAKE JOINTS.

12 TYP PIPE EMBED IN MASONRY

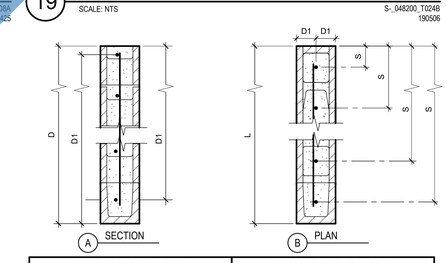
SCALE: NTS S-_048200_T003A 150427



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING..

16 TYP MASONRY KEY JOINT (MKJ)

SCALE: NTS S-_048200_T009A 150427



PLACEMENT TOLERANCE D1		PLACEMENT TOLERANCE S	
D1 EQUALS 8" OR LESS	+/- 1/2"	L EQUALS 8" OR LESS	+/- 1/2"
D1 OVER 8" UP TO 24"	+/- 1"	L OVER 8" UP TO 24"	+/- 1"
D1 OVER 24"	+/- 1 1/4"	L OVER 24"	+/- 2"

NOTES:
1. L = LENGTH WALL SEGMENT, D = DEPTH LINTEL, S = SPACING OF REINF, D1 = DEPTH TO REINF.
2. D1 IS THE LARGEST DISTANCE FROM REINFORCEMENT TO FOM.
3. TOLERANCE LIMITS APPLY TO WALLS, PILASTERS, COLUMNS, BEAMS AND LINTELS.
4. PLACEMENT OF DOWELS SHALL BE HELD TO THE SAME TOLERANCE.
5. SEE LINTEL, PIER AND JAMB DETAILS FOR REBAR BENDS NOT SHOWN.

20 TYP MASONRY REINF TOLERANCE

SCALE: NTS S-_048200_T023B 150706

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AGENCY

CONSULTANT

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REGISTERED PROFESSIONAL ENGINEER GARDEN E. HUNTINGTON No. S4786 REGISTERED PROFESSIONAL ENGINEER OF CALIFORNIA 08/30/2023

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MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

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TITLE
DETAILS - TYPICAL MASONRY

SHEET
S-541

V1

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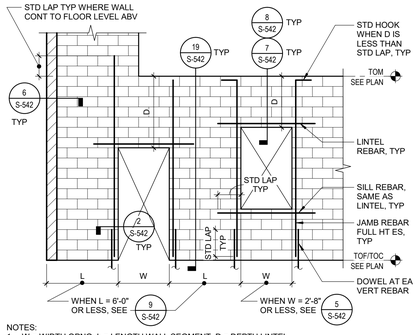
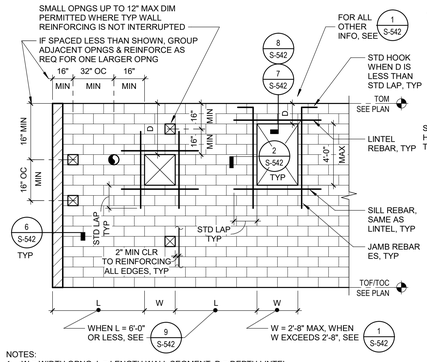


NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. PROVIDE TYP REINFORCING FOR REMAINDER OF WALL.

1 TYP MASONRY LARGE OPNGS

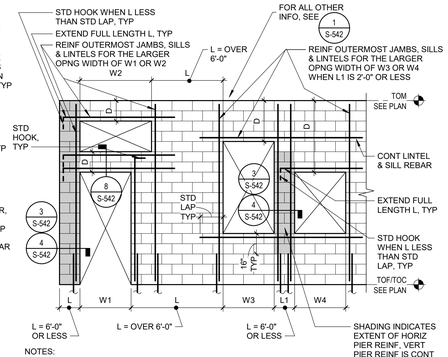
1/4" = 1'-0" S-_048200_T020E 150427



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. PROVIDE TYP REINFORCING FOR REMAINDER OF WALL.

5 TYP MASONRY SMALL OPNGS

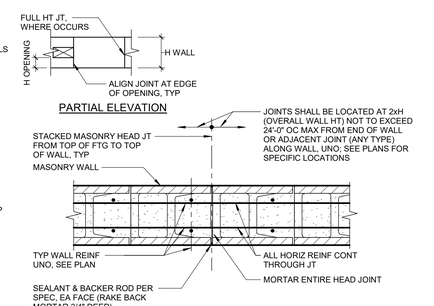
1/4" = 1'-0" S-_048200_T020F 150427



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. PROVIDE TYP REINFORCING FOR REMAINDER OF WALL.

9 TYP MASONRY ADJACENT OPNGS

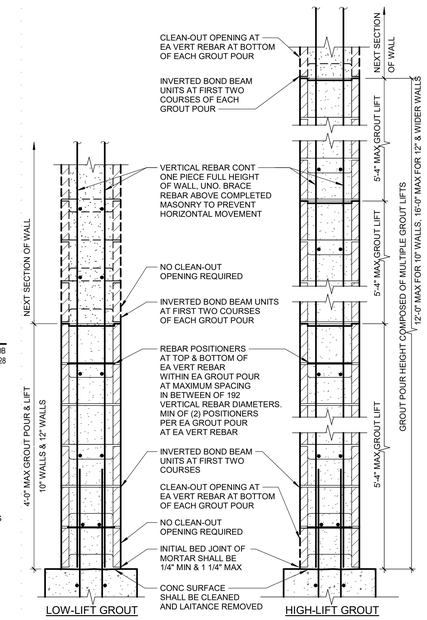
1/4" = 1'-0" S-_048200_T020G 150427



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.

13 TYP MASONRY RAKE JOINT (MRJ)

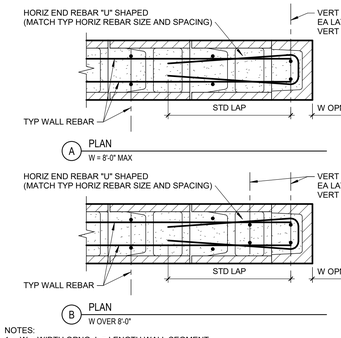
SCALE: NTS S-_048200_T010B 150428



NOTES:
1. WALLS MAY BE CONSTRUCTED USING LOW-LIFT OR HIGH-LIFT GROUTING METHOD.
2. DO NOT PLACE GROUT UNTIL ALL MASONRY UNITS, TIES, REBAR, BOLTS, EMBEDDED ITEMS & CLEAN-OUT CLOSURES ARE IN PLACE & SECURED IN POSITION TO THE TOP OF EACH GROUT POUR. GROUT ALL CELLS SOLID.
3. PROVIDE GROUT CONSTRUCTION JOINT AT TOP OF EACH GROUT POUR, SEE TYP DETAIL.
4. AFTER LOWER SECTION IS GROUTED AND PROPERLY CURED, LAY-UP & GROUT NEXT SECTION OF WALL TO GROUT POUR HEIGHT LIMITATIONS NOTED.
5. GROUT LIFT AND GROUT POUR HEIGHTS SHALL NOT EXCEED THE CLEAR GROUT SPACE LIMITATIONS OF THE BUILDING CODE OR THE MAXIMUM HEIGHTS INDICATED. PRIOR TO MASONRY CONSTRUCTION PROVIDE GROUT DEMONSTRATION PANELS FOR ALTERNATE GROUT SPACES OR HEIGHTS.

18 TYP MASONRY GROUTING

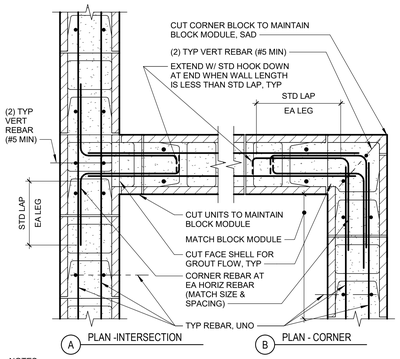
SCALE: NTS S-_048200_T017B 150427



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. VERT REBAR SHALL HAVE MATCHING DOWELS AT FTG W/ STD LAP, TYP
3. HORIZ END REBAR NOT REQ AT SITE WALLS.

2 TYP MASONRY JAMB / END

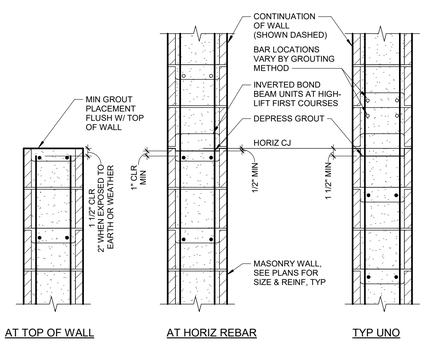
1" = 1'-0" S-_048200_T052B 180809



NOTES:
1. VERT REBAR SHALL HAVE MATCHING DOWELS AT FTG W/ STD LAP, TYP.

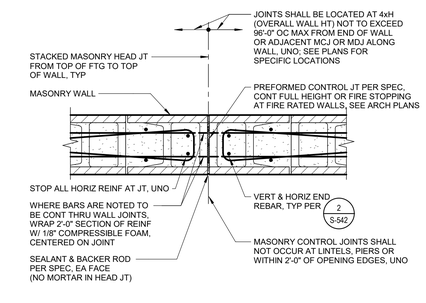
6 TYP MASONRY INTERSECTIONS

1" = 1'-0" S-_048200_T021C 221128



10 TYP MASONRY GROUT CJ

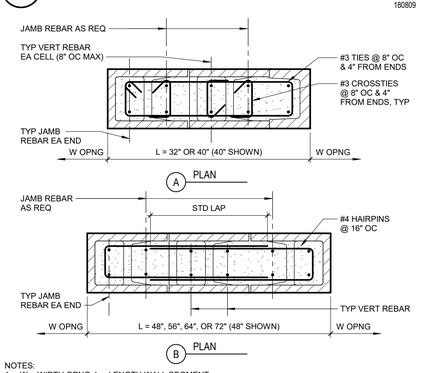
SCALE: NTS S-_048200_T006B 150706



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.
2. HORIZ END REBAR NOT REQ AT SITE WALLS.

14 TYP MASONRY CONTROL JOINT (MCJ)

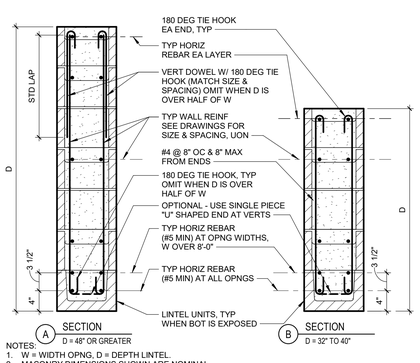
SCALE: NTS S-_048200_T007B 190425



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.
3. SEE TYPICAL DETAILS & PLANS FOR TYP VERT / JAMB REBAR.

3 TYP MASONRY LONG PIER

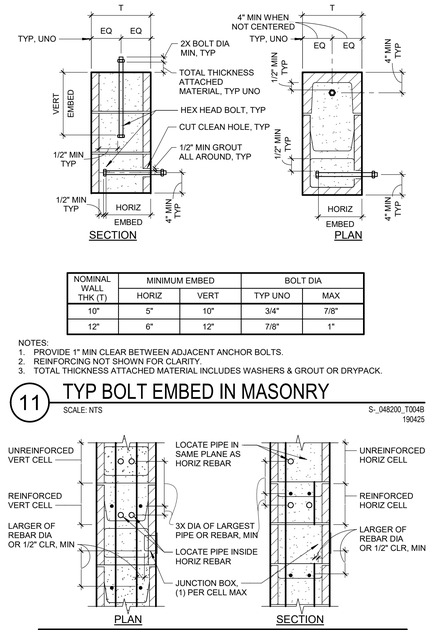
1" = 1'-0" S-_048200_T051B 190425



NOTES:
1. W = WIDTH OPNG, D = DEPTH LINTEL.
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.

7 TYP MASONRY LINTEL

1" = 1'-0" S-_048200_T054B 190425

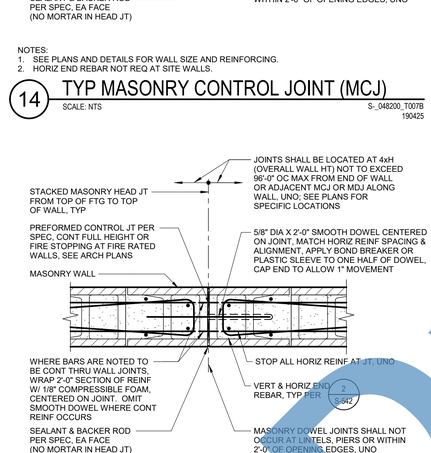


NOMINAL WALL THK (T)	MINIMUM EMBED		BOLT DIA	
	HORIZ	VERT	TYP UNO	MAX
10"	5"	10"	3/4"	7/8"
12"	6"	12"	7/8"	1"

NOTES:
1. PROVIDE 1" MIN CLEAR BETWEEN ADJACENT ANCHOR BOLTS.
2. REINFORCING NOT SHOWN FOR CLARITY.
3. TOTAL THICKNESS ATTACHED MATERIAL INCLUDES WASHERS & GROUT OR DRYPACK.

11 TYP BOLT EMBED IN MASONRY

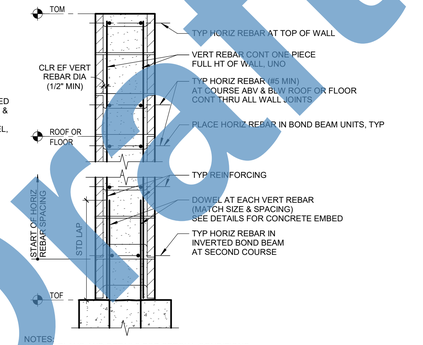
SCALE: NTS S-_048200_T004B 190425



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.

16 TYP MASONRY KEY JOINT (MKJ)

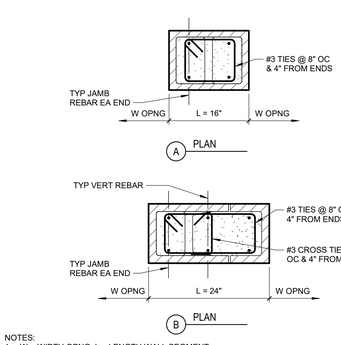
SCALE: NTS S-_048200_T009B 150427



NOTES:
1. SEE PLANS AND DETAILS FOR SPECIAL CONDITIONS.
2. AT 4" HIGH UNITS, PROVIDE INVERTED BOND BEAM UNITS ABOVE ALL HORIZ REBAR.
3. LOCATE REBAR LAPS, SPLICES & DOWELS IN SAME PLANE AS PRIMARY REINFORCING.

19 TYP MASONRY WALL REINF

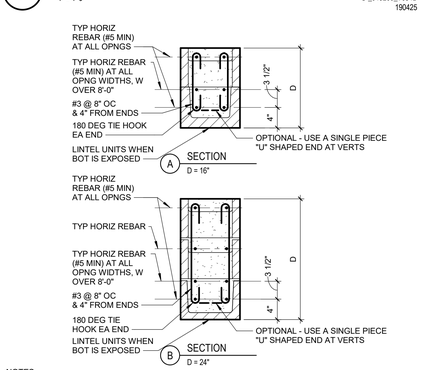
SCALE: NTS S-_048200_T024C 190425



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.
3. SEE TYPICAL DETAILS & PLANS FOR TYP VERT / JAMB REBAR.

4 TYP MASONRY SHORT PIER

1" = 1'-0" S-_048200_T050B 150706



NOTES:
1. W = WIDTH OPNG, D = DEPTH LINTEL.
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.

8 TYP MASONRY SHALLOW LINTEL

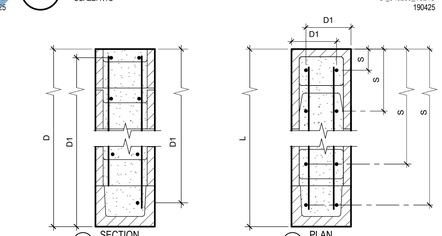
1" = 1'-0" S-_048200_T055B 190506

NOMINAL WALL THICKNESS	MAX QUANTITY OF PIPES PER CELL										COMMENTS
	1/2" DIA		3/4" DIA		1" DIA		1 1/4" DIA		1 1/2" DIA		
	R	U	R	U	R	U	R	U	R	U	
10"	3	4	2	3	1	2	-	1	-	-	R = REINFORCED CELL, U = UNREINFORCED CELL
12"	4	5	3	4	2	3	1	2	-	1	

NOTES:
1. PIPE AS NOTED SHALL REFER TO: PIPES, CONDUITS OR SLEEVES.
2. ONLY RIGID PIPES ARE PERMITTED. NO ALUMINUM PERMITTED. DO NOT CROSS PIPES.
3. PIPES SHALL NOT BE EMBEDDED THAT WILL CONTAIN LIQUID, GAS, OR VAPORS: AT TEMPERATURES HIGHER THAN 150°F, UNDER PRESSURES IN EXCESS OF 55 PSI, OR SUBJECT TO FREEZING.
4. WRAP PIPE SWEEPS & FITTINGS W/ 1/8" MIN THICK FOAM TAPE.
5. WHEN POSSIBLE LOCATE PIPES & JUNCTION BOXES IN CELLS THAT ARE UNREINFORCED. WHERE SPACING OR CLEARANCE CANNOT BE MAINTAINED OR REBAR IS INTERRUPTED, PROVIDE REINF AS REQ FOR TYPICAL MASONRY OPENING.
6. PLACE PIPE & FOAM TAPE 1/2" MIN CLR FROM INTERIOR MASONRY SURFACES.
7. EMBEDDED PIPES SHALL NOT CROSS MASONRY DOWEL, CONTROL, KEY OR RAKE JOINTS.

12 TYP PIPE EMBED IN MASONRY

SCALE: NTS S-_048200_T003B 150427



PLACEMENT TOLERANCE D1		PLACEMENT TOLERANCE S	
D1 EQUALS 8" OR LESS	+/- 1/2"	L EQUALS 8" OR LESS	+/- 1/2"
D1 OVER 8" UP TO 24"	+/- 1"	L OVER 8" UP TO 24"	+/- 1"
D1 OVER 24"	+/- 1 1/4"	L OVER 24"	+/- 2"

NOTES:
1. L = LENGTH WALL SEGMENT, D = DEPTH LINTEL, S = SPACING OF REINF, D1 = DEPTH TO REINF.
2. D1 IS THE LARGEST DISTANCE FROM REINFORCEMENT TO FOM.
3. TOLERANCE LIMITS APPLY TO WALLS, PILASTERS, COLUMNS, BEAMS AND LINTELS.
4. PLACEMENT OF DOWELS SHALL BE HELD TO THE SAME TOLERANCE.
5. SEE LINTEL, PIER AND JAMB DETAILS FOR REBAR BENDS NOT SHOWN.

20 TYP MASONRY REINF TOLERANCE

SCALE: NTS S-_048200_T023C 050706

Draft

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AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER DARREN E. HUNTINGFORD No. S4786 STATE OF CALIFORNIA
08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
DETAILS - TYPICAL MASONRY

SHEET
S-542

V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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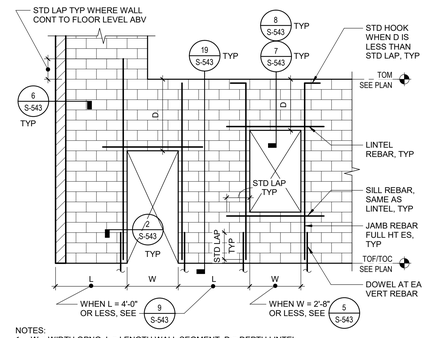
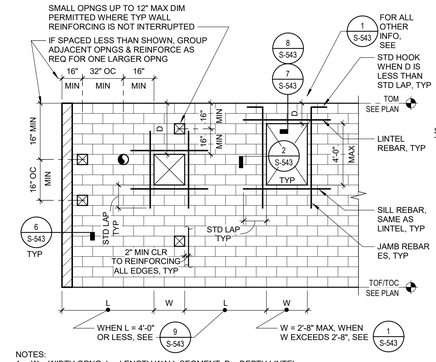


NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. PROVIDE TYP REINFORCING FOR REMAINDER OF WALL.

1 TYP MASONRY LARGE OPNGS

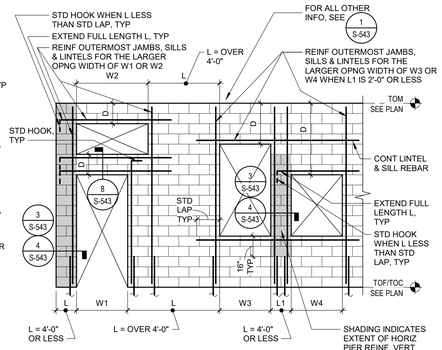
SCALE: NTS — S-_048200_T020F 161129



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. PROVIDE TYP REINFORCING FOR REMAINDER OF WALL.

5 TYP MASONRY SMALL OPNGS

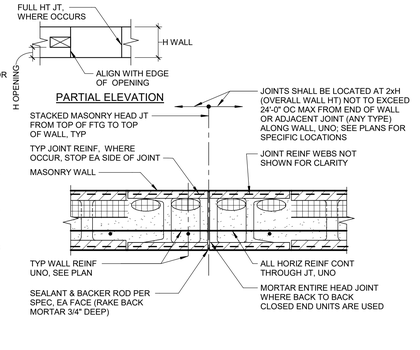
SCALE: NTS — S-_048200_T020H 161129



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. PROVIDE TYP REINFORCING FOR REMAINDER OF WALL.

9 TYP MASONRY ADJACENT OPNGS

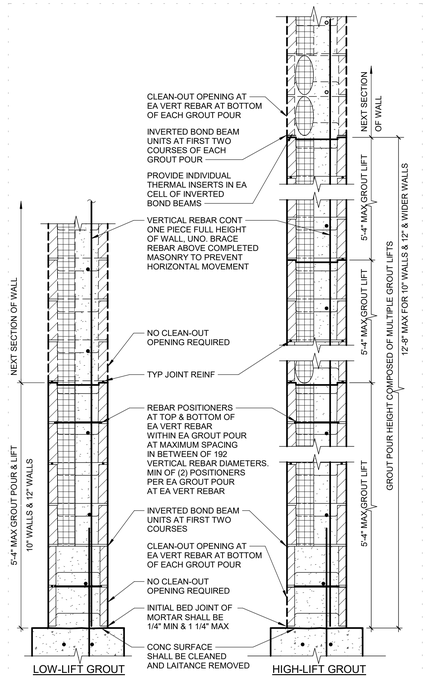
SCALE: NTS — S-_048200_T020J 161129



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.

13 TYP MASONRY RAKE JOINT (MRJ)

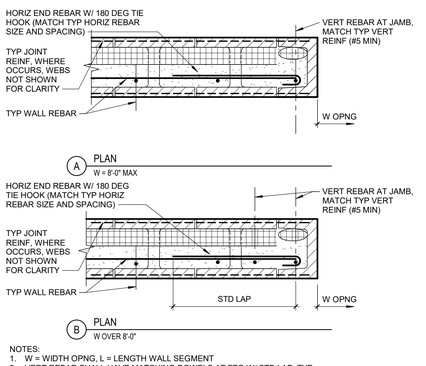
SCALE: NTS — S-_048200_T010C 220331



NOTES:
1. WALLS MAY BE CONSTRUCTED USING LOW-LIFT OR HIGH-LIFT GROUTING METHOD.
2. DO NOT PLACE GROUT UNTIL ALL MASONRY UNITS, TIES, REBAR, BOLTS, EMBEDDED ITEMS & CLEAN-OUT CLOSURES ARE IN PLACE & SECURED IN POSITION TO THE TOP OF EACH GROUT POUR. GROUT ALL CELLS SOLID.
3. PROVIDE GROUT CONSTRUCTION JOINT AT TOP OF EACH GROUT POUR, SEE TYP DETAIL.
4. AFTER LOWER SECTION IS GROUTED AND PROPERLY CURED, LAY-UP & GROUT NEXT SECTION OF WALL TO GROUT POUR HEIGHT LIMITATIONS NOTED.
5. GROUT LIFT AND GROUT POUR HEIGHTS SHALL NOT EXCEED THE CLEAR GROUT SPACE LIMITATIONS OF THE BUILDING CODE OR THE MAXIMUM HEIGHTS INDICATED. PRIOR TO MASONRY CONSTRUCTION PROVIDE GROUT DEMONSTRATION PANELS FOR ALTERNATE GROUT SPACES OR HEIGHTS.

18 TYP MASONRY GROUTING

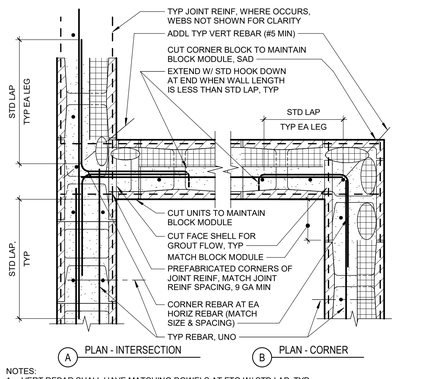
SCALE: NTS — S-_048200_T017C 200413



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. VERT REBAR SHALL HAVE MATCHING DOWELS AT FTG W/ STD LAP, TYP.
3. HORIZ END REBAR NOT REQ AT SITE WALLS.

2 TYP MASONRY JAMB / END

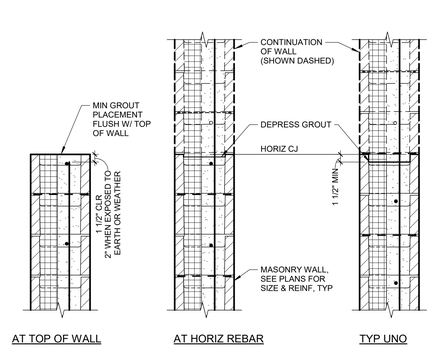
SCALE: NTS — S-_048200_T052C 220331



NOTES:
1. VERT REBAR SHALL HAVE MATCHING DOWELS AT FTG W/ STD LAP, TYP.

6 TYP MASONRY INTERSECTIONS

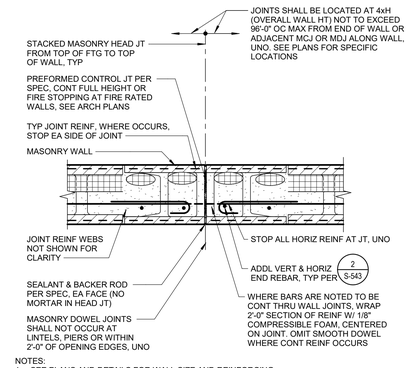
SCALE: NTS — S-_048200_T021D 221129



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.

10 TYP MASONRY GROUT CJ

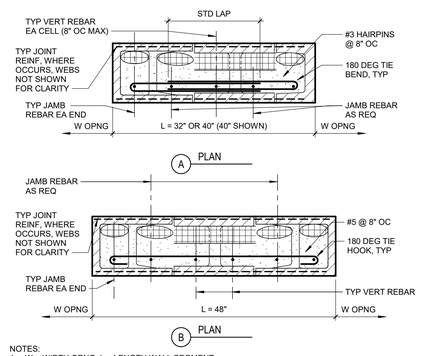
SCALE: NTS — S-_048200_T006C 220331



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.

14 TYP MASONRY CONTROL JOINT (MCJ)

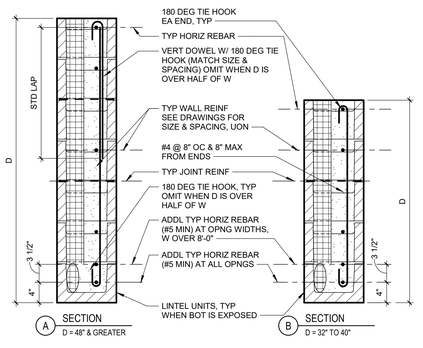
SCALE: NTS — S-_048200_T007C 220331



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.
3. SEE TYPICAL DETAILS & PLANS FOR TYP VERT / JAMB REBAR.

3 TYP MASONRY LONG PIER

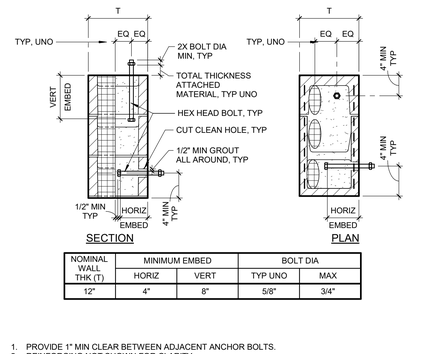
SCALE: NTS — S-_048200_T051C 220331



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.

7 TYP MASONRY LINTEL

SCALE: NTS — S-_048200_T064C 220331

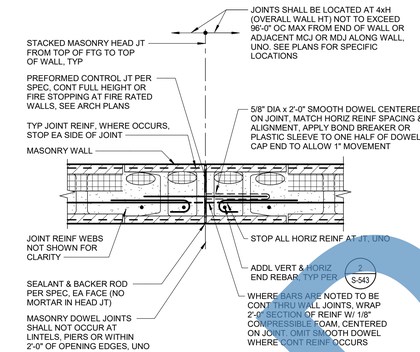


NOMINAL WALL THK (T)	MINIMUM EMBED		BOLT DIA	
	HORIZ	VERT	TYP UNO	MAX
12"	4"	8"	5/8"	3/4"

1. PROVIDE 1" MIN CLEAR BETWEEN ADJACENT ANCHOR BOLTS.
2. REINFORCING NOT SHOWN FOR CLARITY.
3. TOTAL THICKNESS ATTACHED MATERIAL INCLUDES WASHERS & GROUT OR DRYPACK.
4. NO ANCHORS PERMITTED IN EXTERIOR FACE OF THERMAL BLOCK.

11 TYP BOLT EMBED IN MASONRY

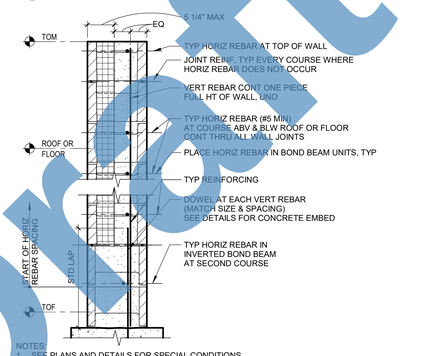
SCALE: NTS — S-_048200_T004C 220331



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.

15 TYP MASONRY DOWEL JOINT (MDJ)

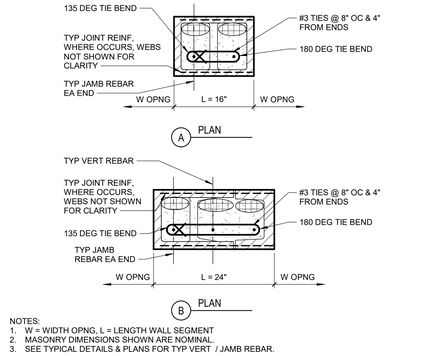
SCALE: NTS — S-_048200_T008C



NOTES:
1. SEE PLANS AND DETAILS FOR SPECIAL CONDITIONS.
2. AT 4" HIGH UNITS, PROVIDE ADDL INVERTED BOND BEAM UNITS ABOVE ALL HORIZ REBAR.
3. LOCATE REBAR LAPS, SPLICES & DOWELS IN SAME PLANE AS PRIMARY REINFORCING.
4. JOINT REINF SHALL BE 9 GA LADDER STYLE REINF W/ CROSS TIES @ 16" OC, TYP UNO.

19 TYP MASONRY WALL REINF

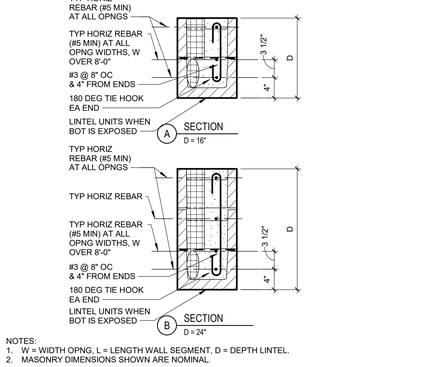
SCALE: NTS — S-_048200_T024D 220331



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.
3. SEE TYPICAL DETAILS & PLANS FOR TYP VERT / JAMB REBAR.

4 TYP MASONRY SHORT PIER

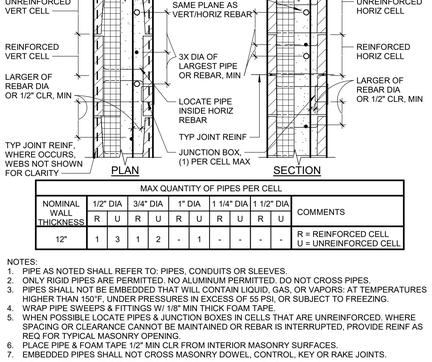
SCALE: NTS — S-_048200_T050C 220331



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT, D = DEPTH LINTEL.
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.

8 TYP MASONRY SHALLOW LINTEL

SCALE: NTS — S-_048200_T055C 220331

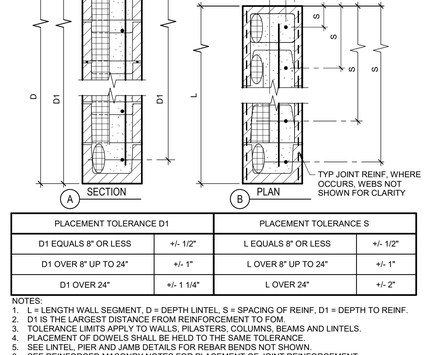


NOMINAL WALL THICKNESS	MAX QUANTITY OF PIPES PER CELL										COMMENTS
	1/2" DIA		3/4" DIA		1" DIA		1 1/4" DIA		1 1/2" DIA		
	R	U	R	U	R	U	R	U	R	U	
12"	1	3	1	2	-	1	-	-	-	-	R = REINFORCED CELL U = UNREINFORCED CELL

NOTES:
1. PIPE AS NOTED SHALL REFER TO: PIPES, CONDUITS OR SLEEVES.
2. ONLY RIGID PIPES ARE PERMITTED. NO ALUMINUM PERMITTED. DO NOT CROSS PIPES.
3. PIPES SHALL NOT BE EMBEDDED THAT WILL CONTAIN LIQUID, GAS, OR VAPORS: AT TEMPERATURES HIGHER THAN 150°F, UNDER PRESSURES IN EXCESS OF 55 PSI, OR SUBJECT TO FREEZING.
4. WRAP PIPE SWEEPS & FITTINGS W/ 1/8" MIN THICK FOAM TAPE.
5. WHEN POSSIBLE LOCATE PIPES & JUNCTION BOXES IN CELLS THAT ARE UNREINFORCED. WHERE SPACING OR CLEARANCE CANNOT BE MAINTAINED OR REBAR IS INTERRUPTED, PROVIDE REINF AS REQ FOR TYPICAL MASONRY OPENING.
6. PLACE PIPE & FOAM TAPE 1/2" MIN CLR FROM INTERIOR MASONRY SURFACES.
7. EMBEDDED PIPES SHALL NOT CROSS MASONRY DOWEL, CONTROL, KEY OR RAKE JOINTS.

12 TYP PIPE EMBED IN MASONRY

SCALE: NTS — S-_048200_T003C 220331



PLACEMENT TOLERANCE D1		PLACEMENT TOLERANCE S	
D1 EQUALS 8" OR LESS	+/- 1/2"	L EQUALS 8" OR LESS	+/- 1/2"
D1 OVER 8" UP TO 24"	+/- 1"	L OVER 8" UP TO 24"	+/- 1"
D1 OVER 24"	+/- 1 1/4"	L OVER 24"	+/- 2"

NOTES:
1. L = LENGTH WALL SEGMENT, D = DEPTH LINTEL, S = SPACING OF REINF, D1 = DEPTH TO REINF.
2. D1 IS THE LARGEST DISTANCE FROM REINFORCEMENT TO FOM.
3. TOLERANCE LIMITS APPLY TO WALLS, PILASTERS, COLUMNS, BEAMS AND LINTELS.
4. PLACEMENT OF DOWELS SHALL BE HELD TO THE SAME TOLERANCE.
5. SEE LINTEL, PIER AND JAMB DETAILS FOR REBAR BENDS NOT SHOWN.
6. SEE REINFORCED MASONRY NOTES FOR PLACEMENT OF JOINT REINFORCEMENT.

20 TYP MASONRY REINF TOLERANCE

SCALE: NTS — S-_048200_T023D 220331

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CONSULTANT

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REGISTERED PROFESSIONAL ENGINEER GARRISON E. HUNTINGTON No. S4786 STATE OF CALIFORNIA
08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 95317

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
DETAILS - TYPICAL MASONRY - INSULATED

SHEET
S-543

V1

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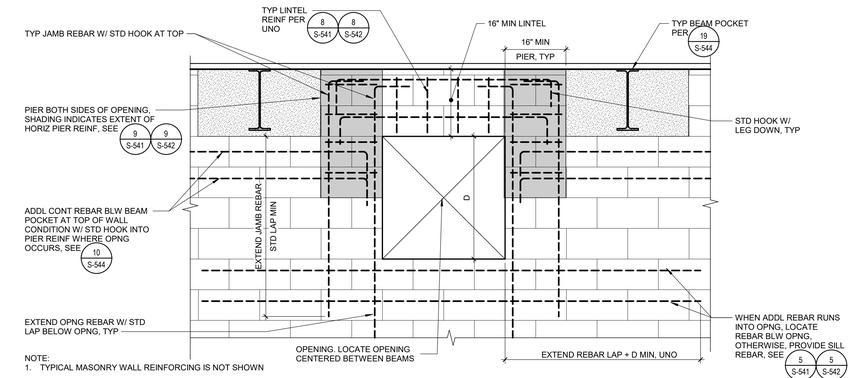
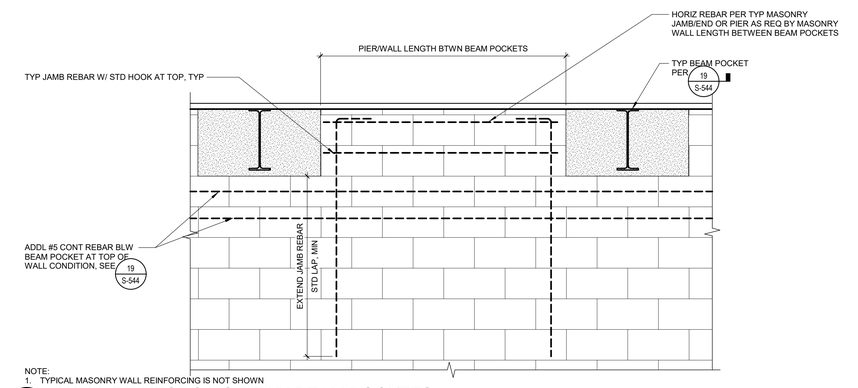


NOTE:
1. TYPICAL MASONRY WALL REINFORCING IS NOT SHOWN

9 WALL OPENING BTWN BEAM POCKETS

SCALE: NTS

S-_048200_T059A
190129. Q2

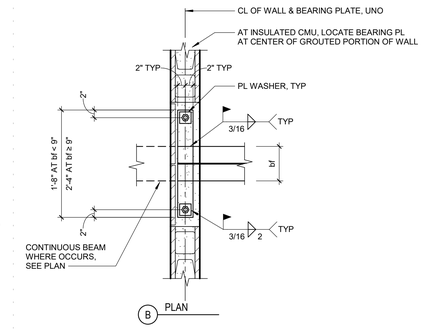


NOTE:
1. TYPICAL MASONRY WALL REINFORCING IS NOT SHOWN

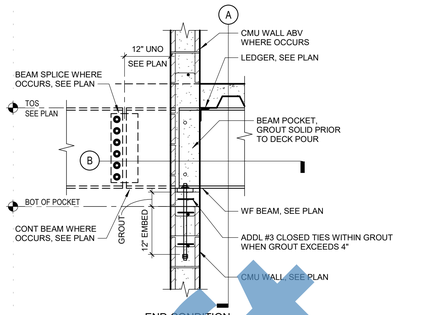
10 WALL REINFORCING BTWN BEAM POCKETS

SCALE: NTS

S-_048200_T060A
190129. Q2



B PLAN



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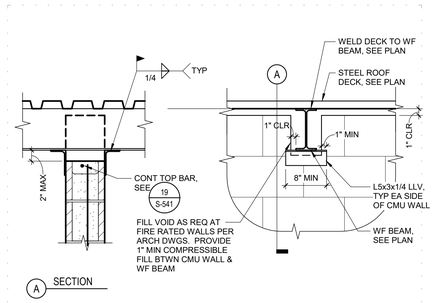
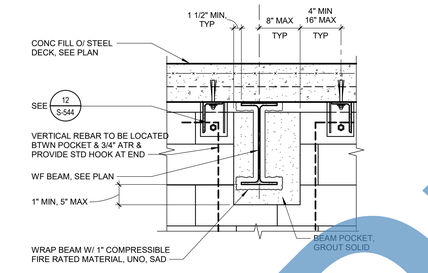


A SECTION

11 TYP WM8N MASONRY WALLS AT STEEL DECK ROOF

SCALE: NTS

S-_048200_T078A
190221. Q1



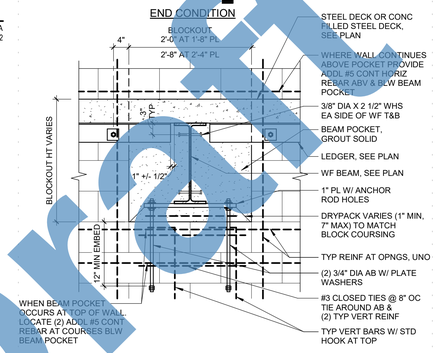
NOTE:
1. FOR ALTERNATE CONN DIRECTLY TO WF BM, SEE

AS DENOTED ON PLAN

15 TYP BEAM POCKET AT WM8N MASONRY WALLS

SCALE: NTS

S-_048200_T078B
211025. Q1



A ELEVATION

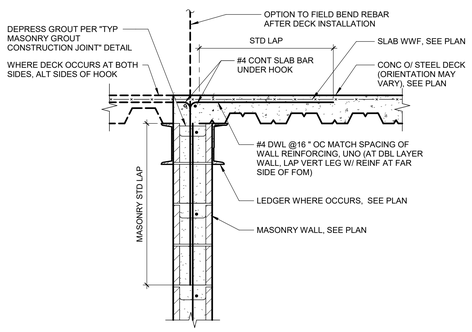
AS DENOTED ON PLAN

NOTE:
1. REINFORCING IN CONCRETE DECK NOT SHOWN FOR CLARITY.
2. NOT ALL MASONRY WALL REINF IS SHOWN, REFER TO TYP MASONRY OPENING DETAILS FOR ADDITIONAL INFORMATION.

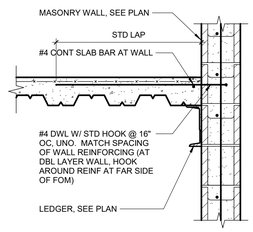
19 TYP BEAM POCKET AT CMU WALL

SCALE: NTS

S-_048200_T042A
190508. Q2



WALL STOPPING AT DECK

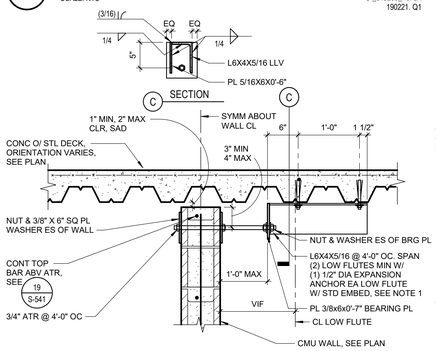


WALL CONTINUOUS

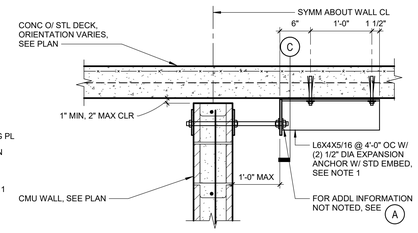
4 TYP CONCRETE DECK DOWEL AT MASONRY WALL

1" = 1'-0"

S-_048200_T002A
150504



A WALL PERPENDICULAR TO DECK



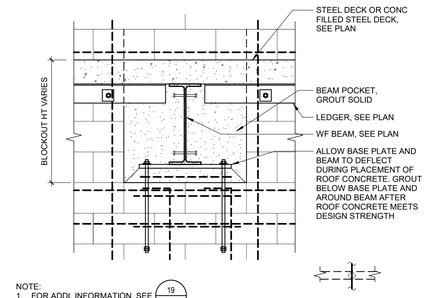
B WALL PARALLEL TO DECK

NOTE:
1. AT 12" CMU, PROVIDE SUPPORTS @ 2'-8" OC

12 TYP WM8N MASONRY WALL TO CONC FILLED STEEL DECK

SCALE: NTS

S-_048200_T016A
190221. Q2



NOTE:
1. FOR ADDL INFORMATION, SEE

AS DENOTED ON PLAN

20 DETAIL

3/4" = 1'-0"

S-_048200_T042A
190508. Q2

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MANAGEMENT

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TITLE
DETAILS - TYPICAL MASONRY

SHEET
S-544

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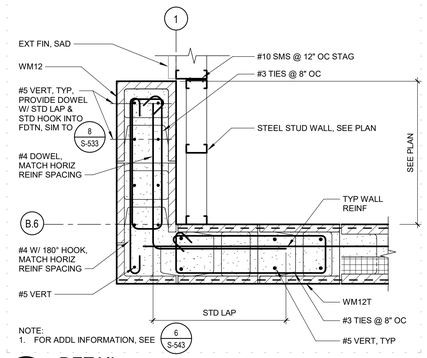
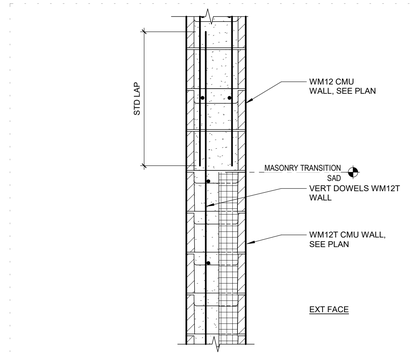


2 DETAIL
1" = 1'-0"
Q1



13 TYP WM12T TO WM12 TRANSITION
SCALE: NTS
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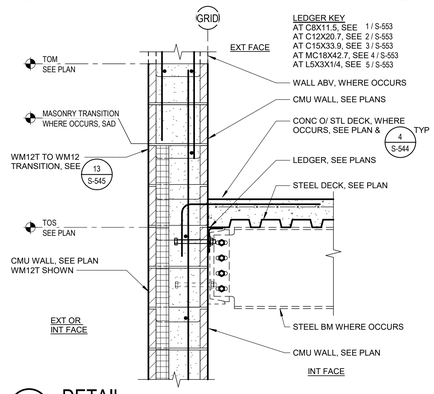
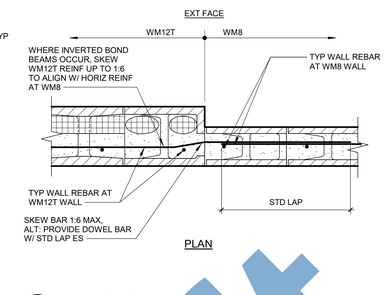
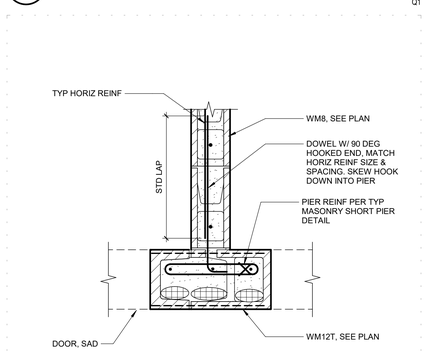
190204. Q1



14 DETAIL
1" = 1'-0"
Q1



18 WM8 TO WM12T PLAN
SCALE: NTS
S-_048200_T068C
190207. Q1



3 DETAIL
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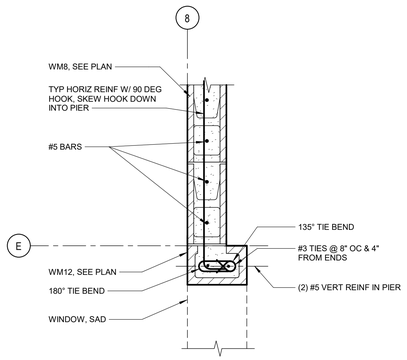
Q1



7 DETAIL
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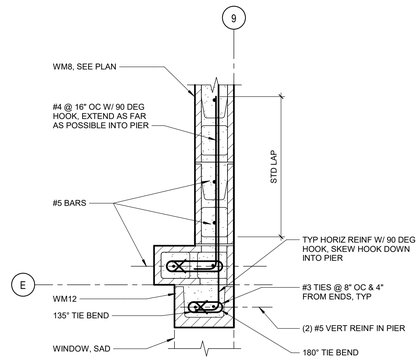

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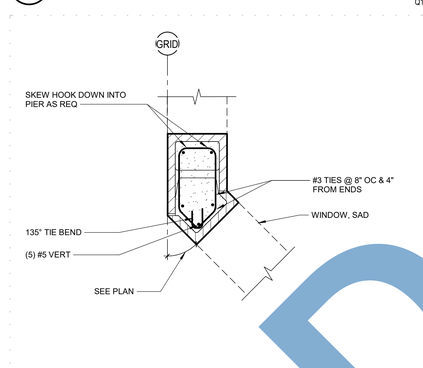

15 DETAIL
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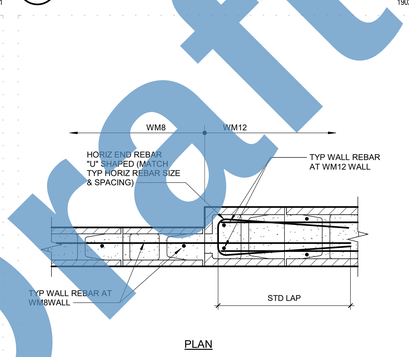
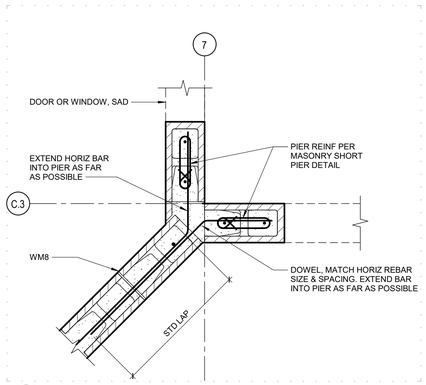


19 WM8 TO WM12 PLAN
SCALE: NTS
S-_048200_T068B
190207. Q1



4 DETAIL
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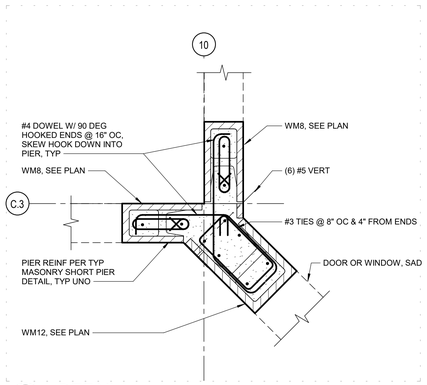
190207. Q1



8 DETAIL
1" = 1'-0"
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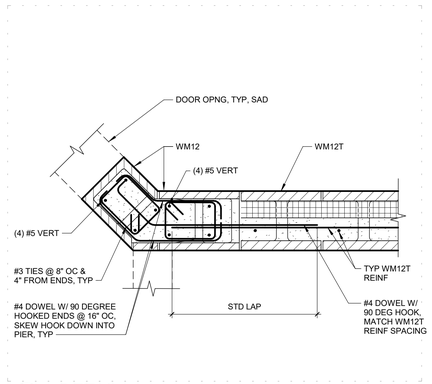

12 DETAIL
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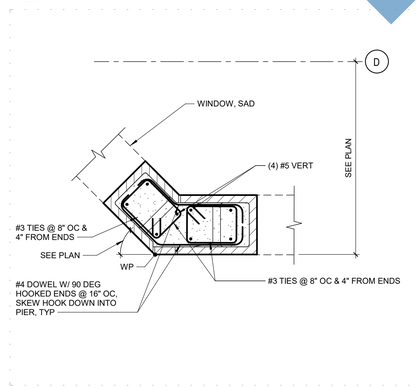

16 DETAIL
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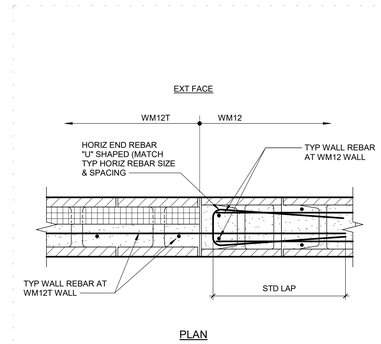

20 WM12 TO WM12T PLAN
SCALE: NTS
S-_048200_T068A
190207. Q1

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TITLE
DETAILS - MASONRY

SHEET
S-545

V1

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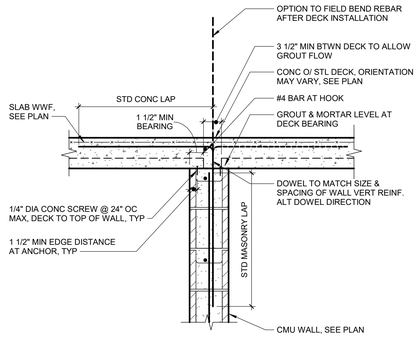

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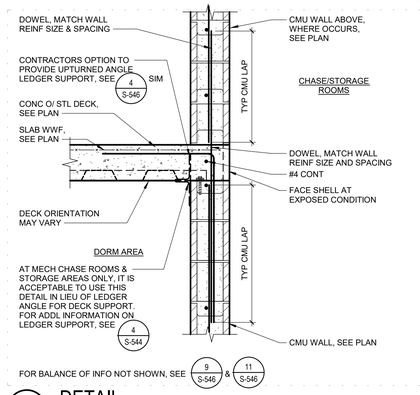

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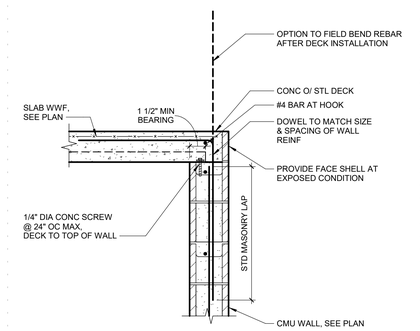
R-_048200_T076A
190211. Q1



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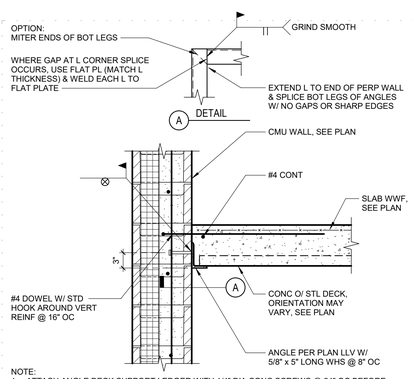
190211. Q1



NOTE:
1. ATTACH ANGLE DECK SUPPORT LEDGER WITH 1/4" DIA CONC SCREWS @ 24" OC BEFORE GROUTING MASONRY WALL.

4 DETAIL

1" = 1'-0"

R-_048200_T071A
200427. Q1

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REGISTERED PROFESSIONAL ENGINEER
GARRION E. HUNTINGTON
No. S4785
STRUCTURAL
STATE OF CALIFORNIA
08/30/2023

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SEPTEMBER 11, 2023

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TITLE
DETAILS - MASONRY

SHEET
S-546

V1

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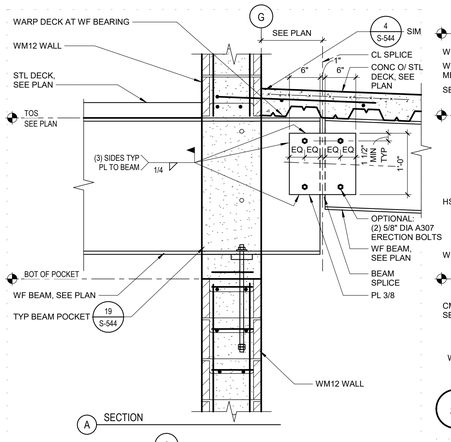
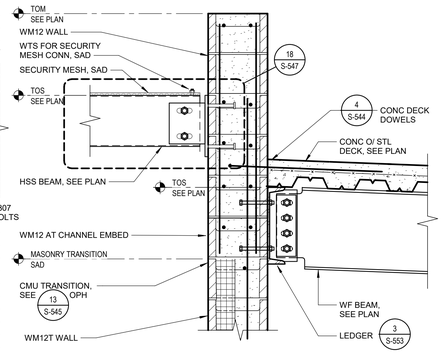
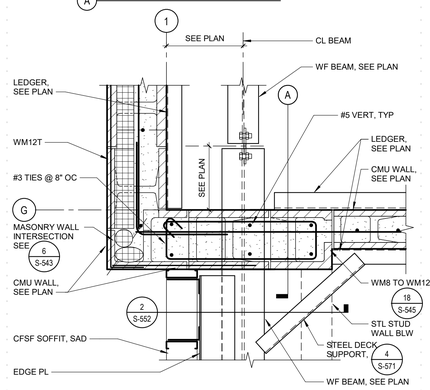




5 DETAIL
1" = 1'-0"



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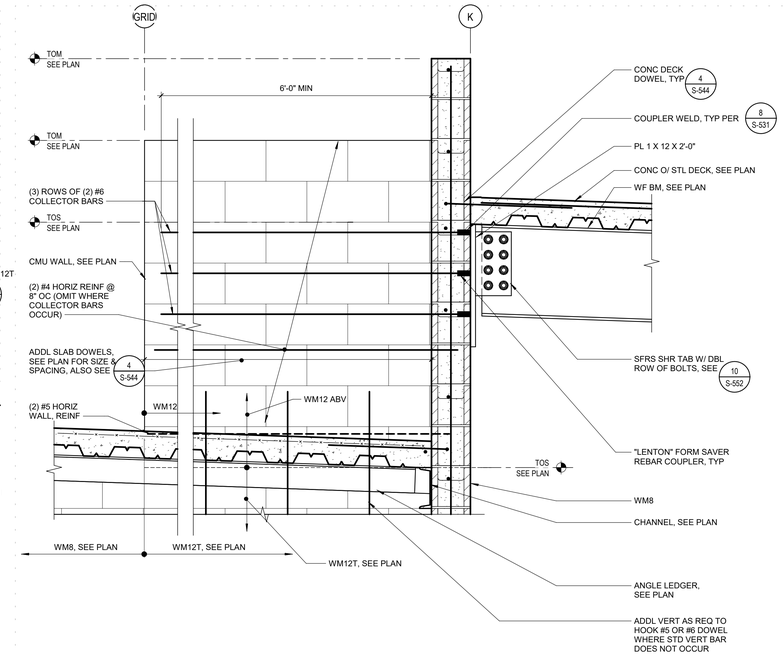
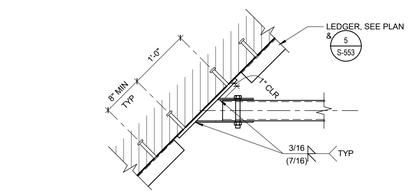
1" = 1'-0"



NOTE:
1. WALL MUST BE FULLY GROUTED PRIOR TO SUPPORTING BEAM

7 DETAIL
1" = 1'-0"

Q1



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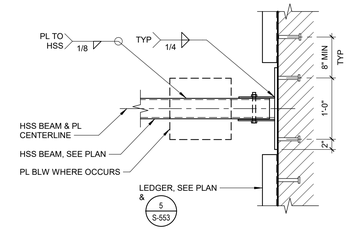
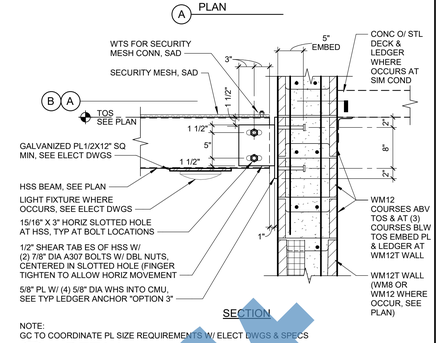


A PLAN

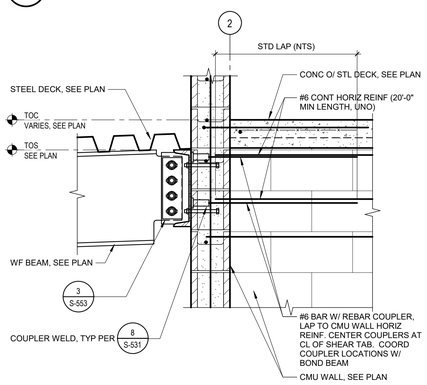


SECTION

NOTE:
GC TO COORDINATE PL SIZE REQUIREMENTS W/ ELECT DWGS & SPECS

18 DETAIL
1" = 1'-0"

Q1



3 DETAIL
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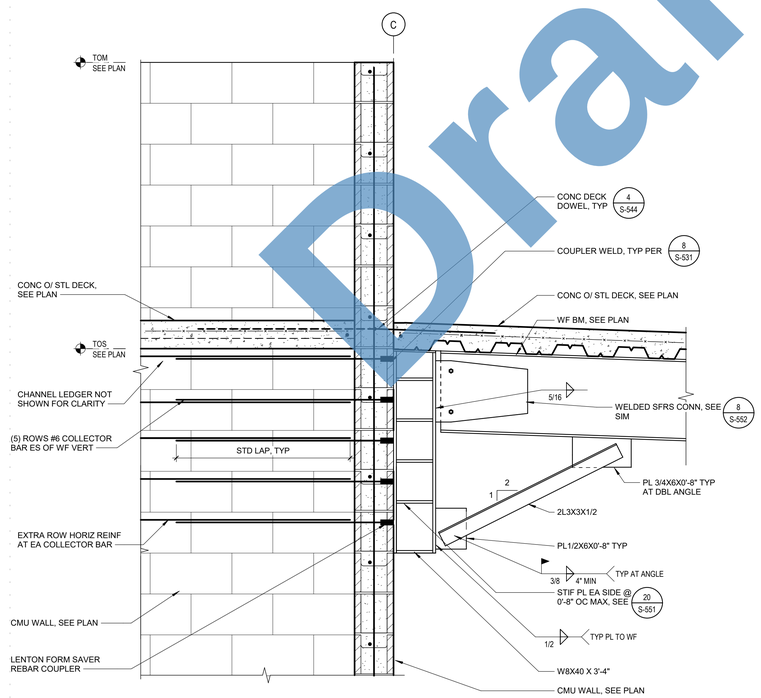
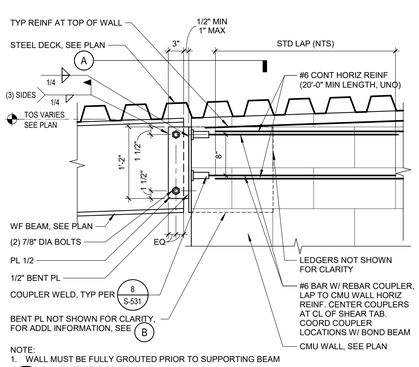


NOTE:
1. WALL MUST BE FULLY GROUTED PRIOR TO SUPPORTING BEAM.

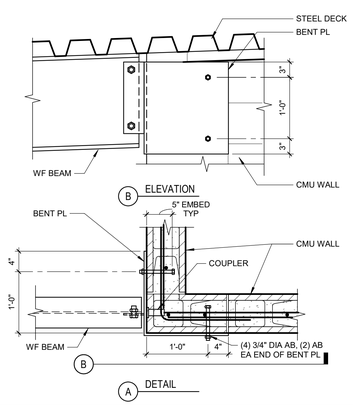
16 DETAIL
1" = 1'-0"

Q1



NOTE:
1. WALL MUST BE FULLY GROUTED PRIOR TO SUPPORTING BEAM

4 DETAIL
1" = 1'-0"



Draft

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2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER GARDON E. HUNTINGTON No. S4785 STATE OF CALIFORNIA
08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE
DETAILS - MASONRY

SHEET
S-547

V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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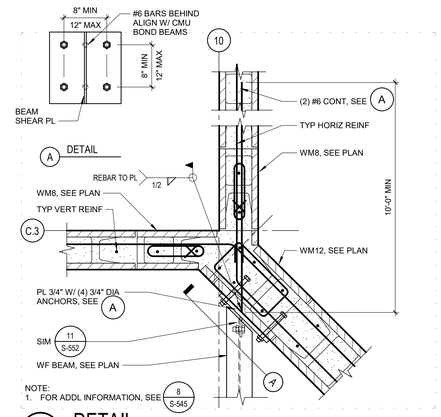
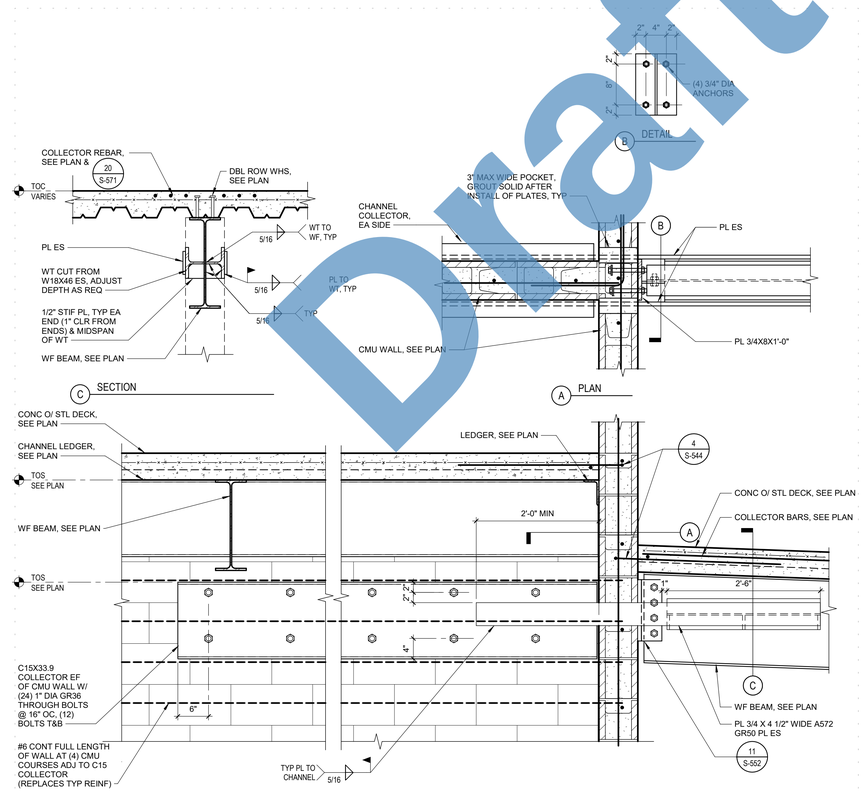


17 DETAIL
1" = 1'-0"

Q1



16 DETAIL
1" = 1'-0"

Q1

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Sacramento CA 95818
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GOVMOTUS No:22-N-3854-CP-DR

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No. S4785
STATE OF CALIFORNIA
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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

DETAILS - MASONRY

SHEET

S-548

V1

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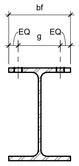
TYP BOLT GAGE FOR C SHAPES	
SHAPE	g (IN)
C3X C4X C5X6.7	-
C5X9 C6X8.2, 10.5	1 1/8
C7X9.8, 12.25, 14.75	1 1/4
C6X13 C8X11.5, 13.75 C9X13.4, 15	1 3/8
C8X18.75 C9X20 C10X15.3, 20	1 1/2
C10X25, 30 C12X20.7, 25, 30	1 3/4
C15X33.9, 40	2
C15X50	2 1/4

TYP BOLT GAGE FOR MC SHAPES	
SHAPE	g (IN)
MC10X8.4 MC12X10.6	-
MC8X8.5	1 1/8
MC6X12	1 1/2
MC6X15.1, 16.3	1 3/4
MC6X15.3, 18 MC7X19.1, 22.7 MC8X18.7, 20, 21.4, 22.8 MC9X23.9, 25.4 MC10X22, 25	2
MC12X31	2 1/4
MC10X28.5, 33.6, 41.1 MC12X35, 40, 45, 50 MC13X31.8, 35, 40, 50 MC18X42.7, 45.8, 51.9, 58	2 1/2

TYP BOLT GAGE FOR W SHAPES	
NOMINAL bf (IN)	g (IN)
4 ≤ bf < 5	2 1/4
5 ≤ bf < 6	2 3/4
6 ≤ bf < 8	3 1/2
8 ≤ bf < 15	5 1/2

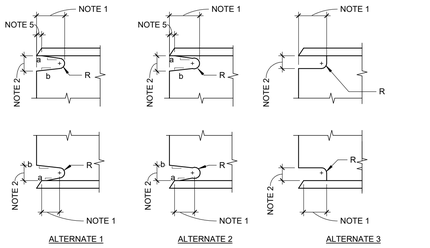


1 TYP BOLT GAGE AT CHANNELS

SCALE: NTS — S-_051200_T004A 140127

5 TYP BOLT GAGE AT WF BEAMS

SCALE: NTS — S-_051200_T005A 140127



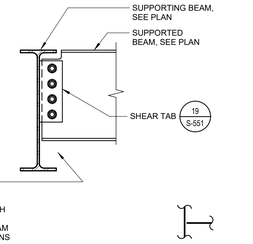
ROLLED SHAPE OR BUILT-UP SHAPES ASSEMBLED PRIOR TO CUTTING THE WELD ACCESS HOLE

BUILT-UP SHAPES ASSEMBLED AFTER CUTTING OF WELD ACCESS HOLE

NOTES: THESE ARE TYPICAL DETAILS FOR JOINTS WELDED FROM ONE SIDE AGAINST STEEL BACKING.
1. LENGTH: GREATER OF 1.5tw OR 1 1/2".
2. HEIGHT: GREATER OF 1.0tw OR 3/4" BUT NOT TO EXCEED 2".
3. R: 3/8" MIN. GRIND THERMALLY CUT SURFACES OF WELD ACCESS HOLES IN HEAVY SHAPES AS DEFINED IN SECTIONS A3.1(c) AND (d).
4. SLOPE a FORMS A TRANSITION FROM THE WEB TO THE FLANGE. SLOPE b MAY BE HORIZONTAL.
5. THE BOTTOM OF THE TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT OF BACKING BARS WHERE THEY ARE TO BE USED.
6. THE WEB-TO-FLANGE WELD OF BUILT-UP MEMBERS IS TO BE HELD BACK A DISTANCE OF AT LEAST THE WELD SIZE FROM THE EDGE OF THE ACCESS HOLE.

9 TYP WELD ACCESS HOLE

SCALE: NTS — S-_051200_T015A 180723. Q1



NOTES:
1. ONE SIDED CONNECTION OCCURS WHERE BEAMS ARE OVER 2'-0" APART (PLAN DIM) ON OPPOSITE SIDE OF SUPPORTING BEAM WEB

13 TYP ONE SIDED BEAM TO BEAM

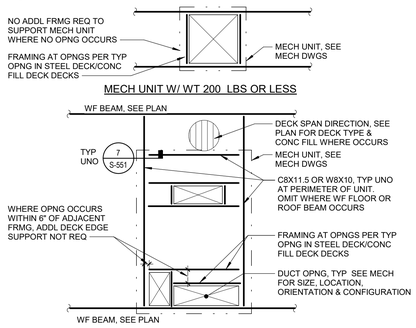
SCALE: NTS — S-_051200_T086 180723

TYP BEAM CONNECTION SCHEDULE			
NOMINAL BEAM OR CHANNEL DEPTH	HIGH STRENGTH BOLTS (QUANTITY) DIA	SINGLE ROW OF BOLTS	
		WELD SIZE W	SHEAR TAB THICKNESS T
8, 9, 10	(2) 7/8"	3/16"	1/4"
12, 13, 14	(3) 7/8"	1/4"	3/8"
15, 16, 18	(4) 7/8"	1/4"	3/8"
20, 21	(5) 7/8"	1/4"	3/8"
24	(6) 7/8"	1/4"	3/8"
27	(7) 7/8"	1/4"	3/8"
30	(8) 7/8"	1/4"	3/8"
33	(9) 7/8"	1/4"	3/8"
36	(10) 1"	5/16"	7/16"
40	(11) 1"	5/16"	7/16"
44	(12) 1"	5/16"	7/16"

NOTES:
1. USE SUPPORTED BEAM DEPTH WITH SCHEDULE. CONNECTION INFORMATION TO BE BASED ON SUPPORTED BEAM DEPTH.
2. FOR BEAMS LESS THAN 8" DEEP, SEE DETAIL 16 / S-551

17 TYP BEAM CONNECTION SCHEDULE

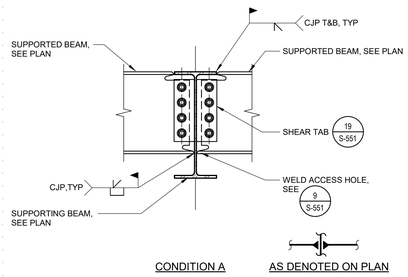
SCALE: NTS — S-_051200_T084 180723. Q1

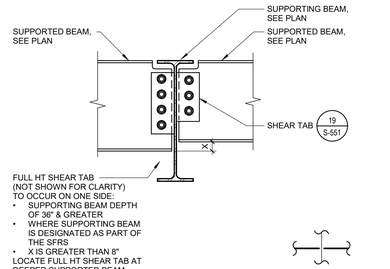


NOTES
1. CONTRACTOR TO COORDINATE QUANTITIES & LOCATIONS OF ALL FRAMING AT MECH UNITS, FRAMING CONFIGURATION SHOWN IF FOR ILLUSTRATIVE PURPOSES, ACTUAL FRAMING TO BE ADJUSTED TO ACCOMMODATE ACTUAL EQUIPMENT/OPNG LAYOUT

6 TYP FRAMING AT MECH UNIT

SCALE: NTS — S-_051200_T076A 170518. Q2





14 TYP TWO SIDED BEAM TO BEAM

SCALE: NTS — S-_051200_T087 180723

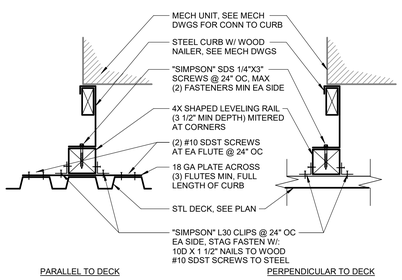
HOLE DIMENSIONS AT STEEL TO STEEL CONNECTIONS				
BOLT DIA, D	STANDARD (DIA)	OVERSIZED (DIA)	SHORT SLOT (WIDTH X LENGTH)	LONG SLOT (WIDTH X LENGTH)
1/2"	9/16"	5/8"	9/16"X11/16"	9/16"X1 1/4"
5/8"	11/16"	13/16"	11/16"X7/8"	11/16"X1 9/16"
3/4"	13/16"	15/16"	13/16"X1"	13/16"X1 7/8"
7/8"	15/16"	1 1/16"	15/16"X1 1/8"	15/16"X2 3/16"
1"	1 1/16"	1 1/4"	1 1/16"X1 5/16"	1 1/16"X2 1/2"
1 1/8" & GREATER	D + 1/16"	D + 5/16"	(D + 1/16")x(D + 3/8")	(D + 1/16")x(2.5 x D)

HOLE DIMENSIONS AT STEEL TO CONCRETE / MASONRY CONNECTIONS			
BOLT DIA	ANCHOR ROD HOLE DIA	BOLT DIA	ANCHOR ROD HOLE DIA
1/2"	15/16"	1 1/4"	2 1/16"
5/8"	1 1/16"	1 1/2"	2 5/16"
3/4"	1 5/16"	1 3/4"	2 3/4"
7/8"	1 9/16"	2"	3 1/4"
1"	1 13/16"	2 1/2"	3 3/4"

PLATE WASHER SCHEDULE (WITH STANDARD HOLE AT CENTER)			
BOLT DIA	STEEL PLATE SIZE	BOLT DIA	STEEL PLATE SIZE
1/2"	3/16"X1 1/2" SQ	1 1/4"	1/2"X3 1/2" SQ
5/8"	1 /4"X1 3/4" SQ	1 1/2"	1/2"X4" SQ
3/4"	1 /4"X2" SQ	1 3/4"	5/8"X4 1/2" SQ
7/8"	5/16"X2 1/2" SQ	2"	3/4"X5" SQ
1"	3/8"X3" SQ	2 1/2"	7/8"X6" SQ

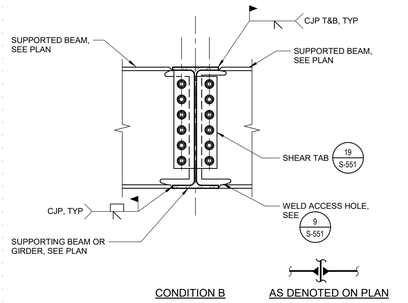
18 TYP BOLT HOLE & PLATE WASHER SCHEDULE

SCALE: NTS — S-_051200_T100 180723. Q1



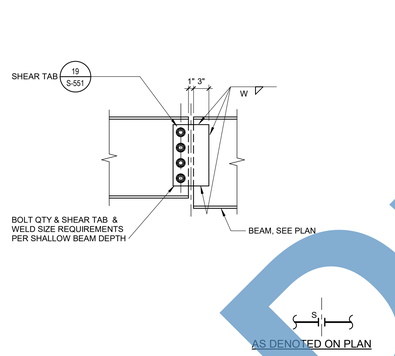
7 TYP MECH UNIT ANCHORAGE AT ROOF DECK

SCALE: NTS — S-_053100_T036A 140127. Q2



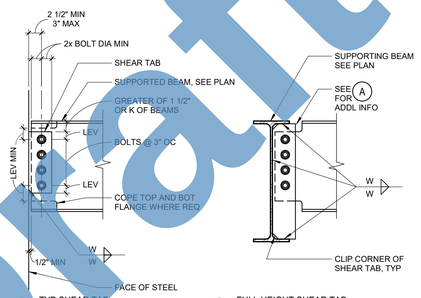
11 TYP BEAM TO BEAM MOMENT

SCALE: NTS — S-_051200_T077A 140127. Q1



15 TYP BEAM SPLICE

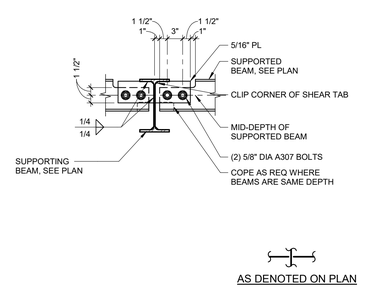
SCALE: NTS — S-_051200_T088 191103



NOTES
1. SHEAR TABS SHALL BE CONDITION A TYP, UNO.
2. FOR BOLT SIZE & QUANTITY, SHEAR TAB THICKNESS "T" AND WELD SIZE "W" SEE 17 / S-551 USING NOMINAL DEPTH OF SUPPORTED BEAM.
3. FOR K DIMENSION SEE AISC.
4. ALL BOLTS SHALL BE IN STANDARD HOLES OR HORIZONTAL SHORT SLOTTED HOLES, TYP UNO.
5. LEV = 1 1/2" MIN AT 7/8" DIA BOLTS AND 1 3/4" MIN AT 1" DIA BOLTS.

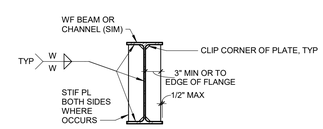
19 TYP SHEAR TAB

SCALE: NTS — S-_051200_T085 191114



16 TYP HORIZONTAL TAB TO BEAM

SCALE: NTS — S-_051200_T011A 180723. Q1



TYP STIF PL SCHEDULE		
NOMINAL BEAM OR CHANNEL DEPTH	WELD SIZE W	STIF PL THICKNESS T
8, 9, 10	3/16"	1/4"
12, 13, 14	1/4"	3/8"
15, 16, 18	1/4"	3/8"
20, 21	1/4"	3/8"
24, 27, 30, 33	5/16"	1/2"
36, 40, 44	5/16"	1/2"

20 TYP STIFFENER PLATE

SCALE: NTS — S-_051200_T090 180723

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER GARRON E. HUNTINGTON No. S4785 STRUCTURAL OF CALIFORNIA 08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
DETAILS - TYPICAL STRUCTURAL STEEL BEAMS

SHEET
S-551

V1

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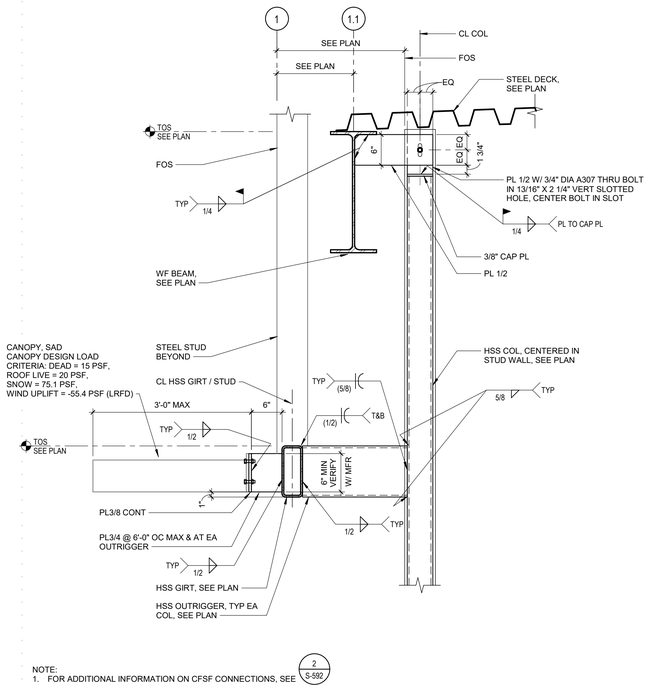
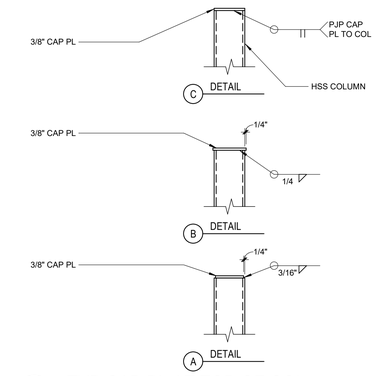


NOTE:
1. FOR ADDITIONAL INFORMATION ON CFSF CONNECTIONS, SEE 2/S-552

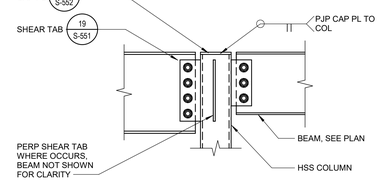
2 DETAIL
1" = 1'-0"

TYP SFRS BEAM CONNECTION SCHEDULE					
NOMINAL BEAM OR CHANNEL DEPTH	HIGH STRENGTH BOLTS (QUANTITY PER ROW) DIA.	SINGLE ROW OF BOLTS		DOUBLE ROW OF BOLTS	
		WELD SIZE W	SHEAR TAB THICKNESS T	WELD SIZE W	SHEAR TAB THICKNESS T
12, 13, 14	(3) 7/8"	1/4"	3/8"	1/4"	3/8"
15, 16, 18	(4) 7/8"	1/4"	3/8"	1/4"	3/8"
20, 21	(5) 7/8"	1/4"	3/8"	1/4"	3/8"
24	(6) 7/8"	5/16"	1/2"	5/16"	1/2"
27	(7) 7/8"	5/16"	1/2"	5/16"	1/2"
30	(8) 7/8"	5/16"	1/2"	5/16"	1/2"
33	(9) 7/8"	5/16"	1/2"	5/16"	1/2"
36	(10) 1"	3/8"	9/16"	3/8"	9/16"
40	(11) 1"	3/8"	9/16"	3/8"	9/16"
44	(12) 1"	3/8"	9/16"	3/8"	9/16"

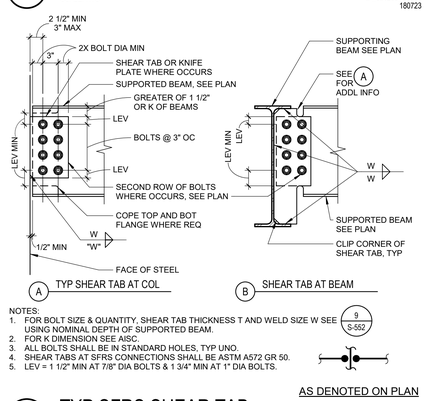
9 TYP SFRS BEAM CONNECTION SCHEDULE
SCALE: NTS — S-_051200_T010A 180723



13 TYP CAP PL AT TOP OF COL
SCALE: NTS — S-_051200_T0094 180723



17 TYP WF BM TO HSS COL AT TOP OF COL
SCALE: NTS — S-_051200_T0101 140127

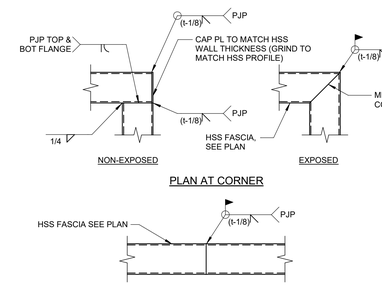


A TYP SHEAR TAB AT COL — B SHEAR TAB AT BEAM

NOTES:
1. FOR BOLT SIZE & QUANTITY, SHEAR TAB THICKNESS T AND WELD SIZE W SEE 9/S-552 USING NOMINAL DEPTH OF SUPPORTED BEAM.
2. FOR K DIMENSION SEE AISC.
3. ALL BOLTS SHALL BE IN STANDARD HOLES, TYP UNO.
4. SHEAR TABS AT SFRS CONNECTIONS SHALL BE ASTM A572 GR 50.
5. LEV = 1 1/2" MIN AT 7/8" DIA BOLTS & 1 3/4" MIN AT 1" DIA BOLTS.

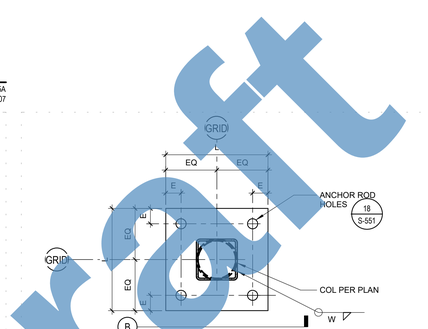
AS DENOTED ON PLAN

10 TYP SFRS SHEAR TAB
SCALE: NTS — S-_051200_T097 191114. Q1



NOTES:
1. SEE STRUCTURAL STEEL NOTES FOR CRITERIA WHERE CONNECTIONS ARE EXPOSED AND VISIBLE TO THE PUBLIC AND BUILDING OCCUPANTS (OTHER THAN MAINTENANCE AREAS).
2. "t" IS THE HSS WALL THICKNESS

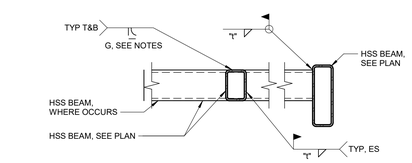
14 TYP HSS CORNER & SPLICE
SCALE: NTS — S-_051200_T045A 160107



HSS COLUMN BASE PLATE SCHEDULE					
COLUMN SIZE	ANCHOR ROD DIA	BASE PLATE DIMENSIONS			WELD SIZE W
		T	E	L	
HSS4	3/4"	3/4"	1 1/2"	10"	1/4"
HSS5	3/4"	3/4"	1 1/2"	11"	1/4"
HSS6	3/4"	3/4"	1 1/2"	12"	1/4"
HSS7	3/4"	3/4"	1 1/2"	13"	1/4"
HSS8	1"	1"	2"	16"	5/16"
HSS10	1"	1"	2"	18"	5/16"
HSS12	1"	1"	2"	20"	5/16"

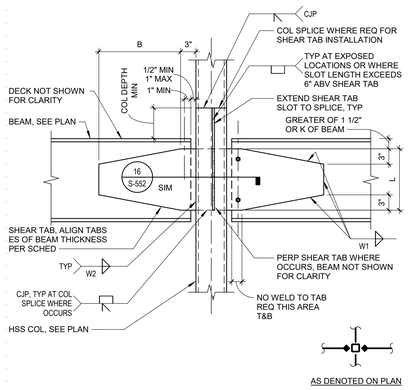
NOTES:
1. APPLIES TO SQUARE, RECTANGULAR (2 to 1 MAX DEPTH TO WIDTH RATIO), PIPE & ROUND HSS.
2. WELD NOT REQUIRED AT RADIUS CORNERS OF SQUARE OR RECTANGULAR HSS.
3. AT RECTANGULAR HSS, USE LARGER HSS DIMENSION.

20 TYP HSS COL BASE PLATE
SCALE: NTS — S-_051200_T001A 180723



NOTES:
1. SEE STRUCTURAL STEEL NOTES FOR CRITERIA WHERE CONNECTIONS ARE EXPOSED AND VISIBLE TO THE PUBLIC AND BUILDING OCCUPANTS (OTHER THAN MAINTENANCE AREAS).
2. "t" SHALL BE THE LESSER OF THE THINNEST HSS BEAM WALL THICKNESS OR 5/16" TYP, UNO.

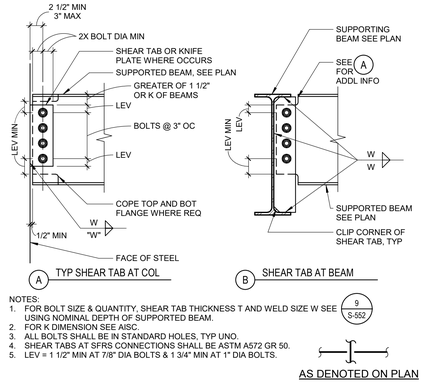
3 TYP EXPOSED HSS BM TO HSS BM
SCALE: NTS — S-_051200_T042A 160107



TYP SFRS WELDED CONNECTION SCHEDULE					
NOMINAL BEAM DEPTH	SHEAR TAB HEIGHT, L	SHEAR TAB THICKNESS, T	SHEAR TAB EXTENSION, B	WELD SIZE TO BEAM, W1	WELD SIZE TO SUPPORT, W2
12, 13, 14	9"	3/8"	12"	1/4"	1/4"
15, 16, 18	12"	3/8"	15"	1/4"	1/4"
20, 21	15"	3/8"	20"	1/4"	1/4"
24	18"	1/2"	24"	5/16"	5/16"
27	21"	1/2"	27"	5/16"	5/16"
30	24"	1/2"	30"	5/16"	5/16"
33	27"	1/2"	33"	5/16"	5/16"
36	30 1/2"	9/16"	36"	3/8"	3/8"
40	33 1/2"	9/16"	40"	3/8"	3/8"
44	36 1/2"	9/16"	44"	3/8"	3/8"

NOTES:
1. FOR K AND K1 DIMENSIONS, SEE AISC.
2. SHEAR TABS AT SFRS CONNECTIONS SHALL BE ASTM A572, GR 50.

8 TYP WELDED SFRS CONNECTION
1" = 1'-0" — S-_051200_C021A 200302

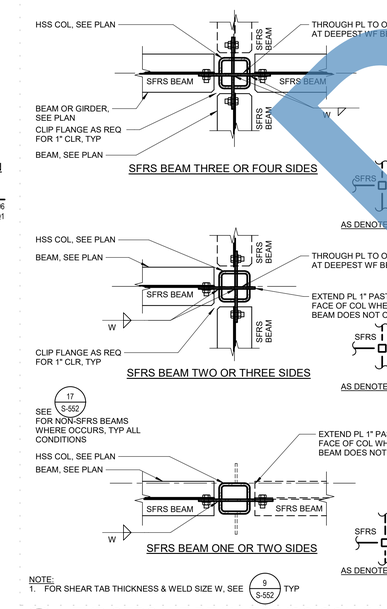


A TYP SHEAR TAB AT COL — B SHEAR TAB AT BEAM

NOTES:
1. FOR BOLT SIZE & QUANTITY, SHEAR TAB THICKNESS T AND WELD SIZE W SEE 9/S-552 USING NOMINAL DEPTH OF SUPPORTED BEAM.
2. FOR K DIMENSION SEE AISC.
3. ALL BOLTS SHALL BE IN STANDARD HOLES, TYP UNO.
4. SHEAR TABS AT SFRS CONNECTIONS SHALL BE ASTM A572 GR 50.
5. LEV = 1 1/2" MIN AT 7/8" DIA BOLTS & 1 3/4" MIN AT 1" DIA BOLTS.

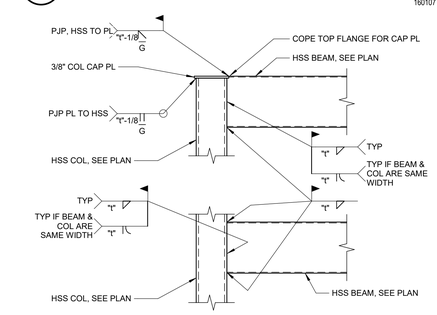
AS DENOTED ON PLAN

11 TYP SFRS SHEAR TAB
SCALE: NTS — S-_051200_T096 200203. Q1



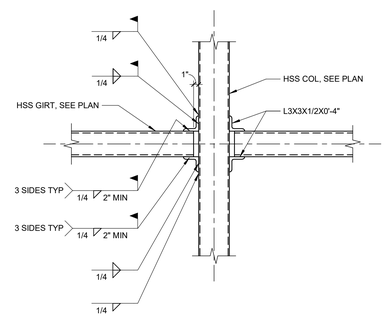
NOTE:
1. FOR SHEAR TAB THICKNESS & WELD SIZE W, SEE 9/S-552 TYP

16 TYP SFRS WF BEAM TO HSS COLUMN
SCALE: NTS — S-_051200_T007A 140127



NOTES:
1. "t" SHALL BE THE LESSER OF THE HSS BEAM/COLUMN WALL THICKNESS OR 5/16", TYP UNO
2. GRIND SMOOTH ALL ARCHITECTURALLY EXPOSED WELDED CONNECTIONS
3. REMOVE ERECTION TABS THAT MAY BE REQUIRED
4. IF BEAM IS WIDER THAN COLUMN, CAP END OF BEAM SIM TO COLUMN CAP PLATE

4 TYP EXPOSED HSS BM TO HSS COL
SCALE: NTS — S-_051200_T043A 140127



12 TYP HSS GIRT TO HSS COLUMN
1" = 1'-0" — S-_051200_T039A 140127

Draft

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER GARDNER E. HUNTINGTON No. S4786 STRUCTURAL STATE OF CALIFORNIA
08/30/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
DETAILS - TYPICAL STRUCTURAL STEEL

SHEET
S-552

V1

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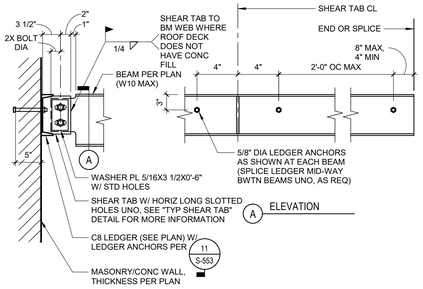
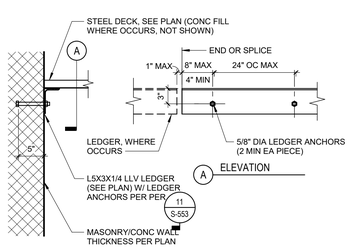


NOTES:
1. WHERE LEDGER ANCHORS ALIGN WITH BOLTS ON THE OTHER SIDE OF WALL, USE ATR THRU BOLTS IN LIEU OF HEADED BOLTS.
2. WELD SHEAR TAB TO BEAM WEB AFTER ROOFING IS INSTALLED.

1 TYP C8 LEDGER FOR BEAM SUPPORT

SCALE: NTS

S-_051200_T020A
190320

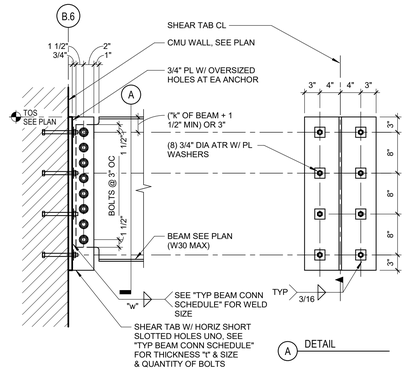


NOTES:
1. WHERE LEDGER ANCHORS ALIGN WITH BOLTS ON THE OTHER SIDE OF WALL, USE ATR THRU BOLTS IN LIEU OF HEADED BOLTS.

5 TYP ANGLE LEDGER FOR DECK SUPPORT

SCALE: NTS

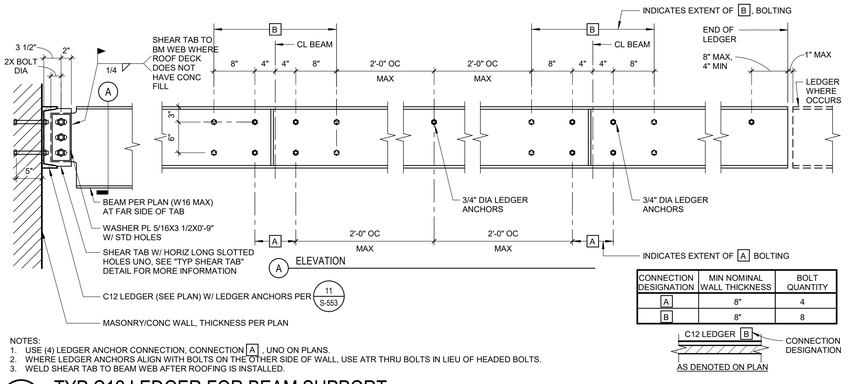
S-_051200_T024A
190320. Q2



9 DETAIL

SCALE: NTS

S-_051200_T047A
140127



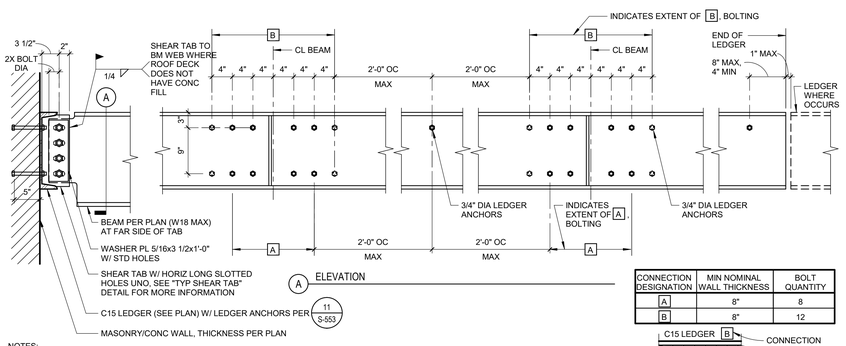
CONNECTION DESIGNATION	MIN NOMINAL WALL THICKNESS	BOLT QUANTITY
A	8"	4
B	8"	8

NOTES:
1. USE (4) LEDGER ANCHOR CONNECTION, CONNECTION A , UNO ON PLANS.
2. WHERE LEDGER ANCHORS ALIGN WITH BOLTS ON THE OTHER SIDE OF WALL, USE ATR THRU BOLTS IN LIEU OF HEADED BOLTS.
3. WELD SHEAR TAB TO BEAM WEB AFTER ROOFING IS INSTALLED.

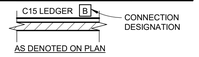
2 TYP C12 LEDGER FOR BEAM SUPPORT

SCALE: NTS

S-_051200_T018A
190320. Q2



CONNECTION DESIGNATION	MIN NOMINAL WALL THICKNESS	BOLT QUANTITY
A	8"	8
B	8"	12

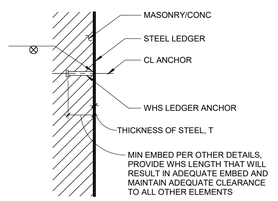


NOTES:
1. USE (8) LEDGER ANCHOR CONNECTION, CONNECTION A , UNO ON PLANS.
2. WHERE LEDGER ANCHORS ALIGN WITH BOLTS ON THE OTHER SIDE OF WALL, USE ATR THRU BOLTS IN LIEU OF HEADED BOLTS.
3. WELD SHEAR TAB TO BEAM WEB AFTER ROOFING IS INSTALLED.

3 TYP C15 LEDGER FOR BEAM SUPPORT

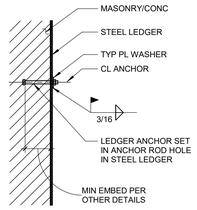
SCALE: NTS

S-_051200_T018A
190320. Q2

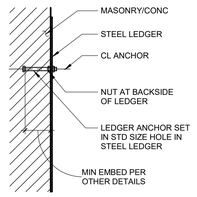


NOTE: THIS OPTION IS ONLY PERMITTED WHERE T IS AT LEAST (LEDGER ANCHOR DIA)/3.

OPTION 3



OPTION 2



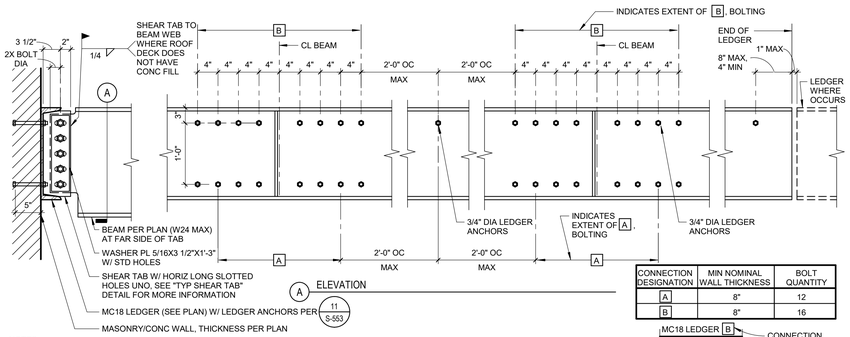
OPTION 1

NOTES:
1. ANY OPTION IS ACCEPTABLE FOR USE BASED ON DESIRED CONSTRUCTION METHOD.

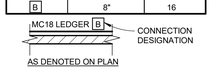
11 TYP LEDGER ANCHOR

SCALE: NTS

S-_051200_T025A
190926



CONNECTION DESIGNATION	MIN NOMINAL WALL THICKNESS	BOLT QUANTITY
A	8"	12
B	8"	16



NOTES:
1. USE (12) LEDGER ANCHOR CONNECTION, CONNECTION A , UNO ON PLANS.
2. WHERE LEDGER ANCHORS ALIGN WITH BOLTS ON THE OTHER SIDE OF WALL, USE ATR THRU BOLTS IN LIEU OF HEADED BOLTS.
3. WELD SHEAR TAB TO BEAM WEB AFTER ROOFING IS INSTALLED.

4 TYP MC18 LEDGER FOR BEAM SUPPORT

SCALE: NTS

S-_051200_T018R
190320. Q2

Draft

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

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08/30/2023

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MONO COUNTY NEW JAIL

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CLIENT
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P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

DETAILS - TYPICAL STRUCTURAL STEEL LEDGERS AT MASONRY

SHEET

S-553

V1

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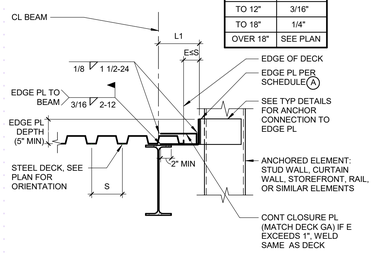
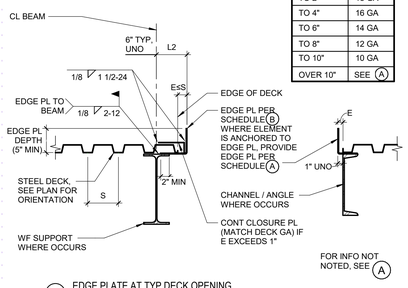
SCHEDULE (A)	
L1	PL
TO 12"	3/16"
TO 18"	1/4"
OVER 18"	SEE PLAN



(A) EDGE PLATE AT ANCHORED ELEMENTS

SCHEDULE (B)	
L2	PL
TO 2"	18 GA
TO 4"	16 GA
TO 6"	14 GA
TO 8"	12 GA
TO 10"	10 GA
OVER 10"	SEE (A)

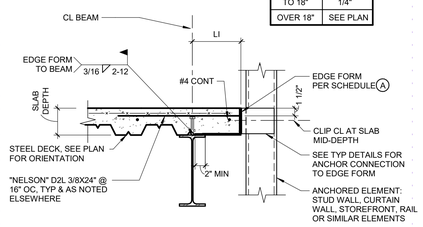


(B) EDGE PLATE AT TYP DECK OPENING

2 TYP EDGE PLATE

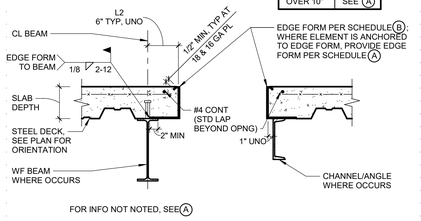
1" = 1'-0" S-_053100_T007A 151007. Q2

SCHEDULE (A)	
L1	PL
TO 12"	3/16
TO 18"	1/4"
OVER 18"	SEE PLAN



(A) EDGE FORM AT ANCHORED ELEMENTS

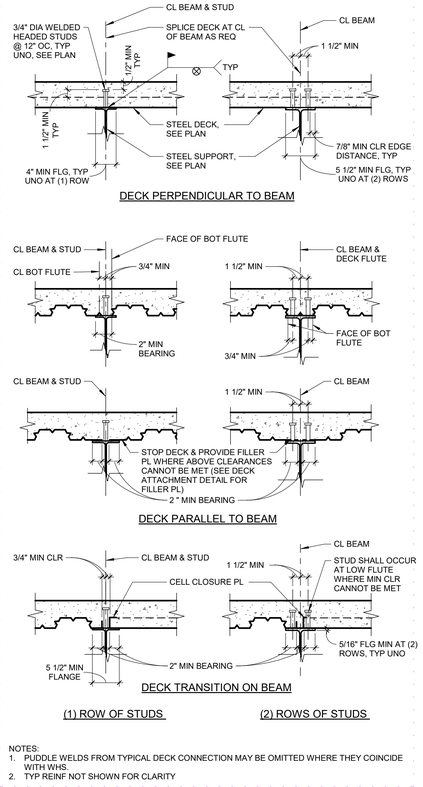
SCHEDULE (B)	
L2	PL
TO 2"	18 GA
TO 4"	16 GA
TO 6"	14 GA
TO 8"	12 GA
TO 10"	10 GA
OVER 10"	SEE (A)



(B) EDGE FORM AT TYP SLAB OPENING

6 TYP EDGE FORM

1" = 1'-0" S-_053100_T002A 140127. Q2



NOTES:
1. PUDDLE WELDS FROM TYPICAL DECK CONNECTION MAY BE OMITTED WHERE THEY COINCIDE WITH WHS.
2. TYP REINF NOT SHOWN FOR CLARITY

10 TYP SHEAR CONNECTOR STUDS

1" = 1'-0" S-_053100_T048A 140127. Q2

STEEL DECK PROPERTIES							
TYPE	GA	Ie+ (in⁴/ft)	Ie- (in⁴/ft)	Se+ (in³/ft)	Se- (in³/ft)	Fy MIN (KSI)
2" W	18	0.570	0.570	0.472	0.488	50
2" WF	16/16	1.303	1.132	0.803	0.792	50

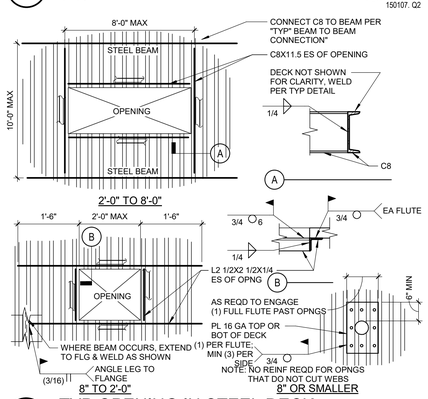
14 TYP 2" & 3" TYPE 'W' & 'WF' COMPOSITE STEEL DECK ATTACHMENT

SCALE: NTS S-_053100_T019A 200304. Q2

STEEL DECK PROPERTIES							
TYPE	GA	Ie+ (in⁴/ft)	Ie- (in⁴/ft)	Se+ (in³/ft)	Se- (in³/ft)	Fy MIN (KSI)
B	18	0.300	0.313	0.316	0.329	38
N	18	1.219	1.275	0.661	0.715	50

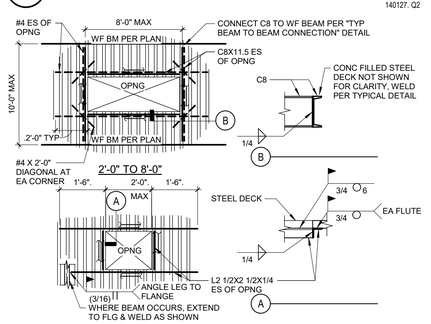
18 TYP 1 1/2" TYPE 'B' NON-COMPOSITE STEEL DECK ATTACHMENT

SCALE: NTS S-_053100_T021A 200304. Q2



3 TYP OPENING IN STEEL DECK

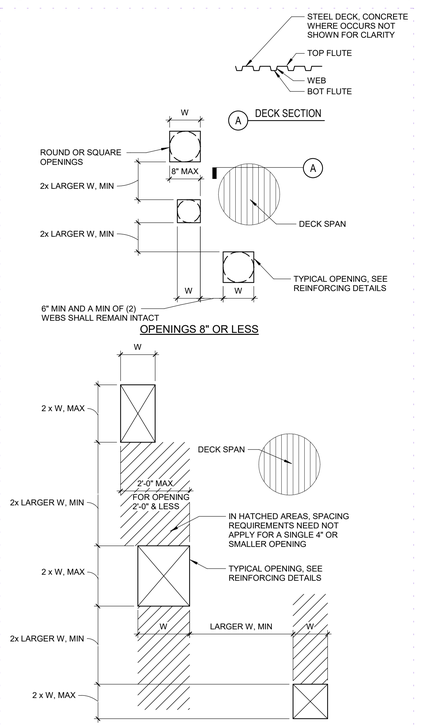
1" = 1'-0" S-_053100_T008A 171002. Q2



NOTES:
1. OPENINGS 8" OR SMALLER SHALL BE CORE DRILLED AFTER CONCRETE FILL HAS BEEN PLACED. OPENINGS UP TO 4" DIA MAY BE CUT IN DECK PRIOR TO PLACING CONCRETE AS LONG AS OPENINGS DO NOT CUT WEBS AND ARE SPACED MORE THAN 8" CLEAR FROM ADJACENT OPENINGS.

7 TYP OPENINGS IN CONC FILLED STEEL DECK

3/4" = 1'-0" S-_053100_T004A 160712. Q2



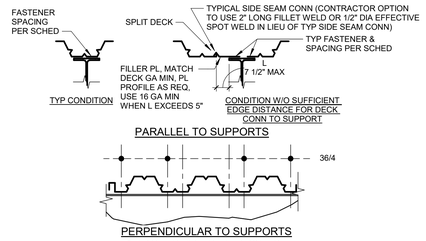
NOTES
1. THIS DETAIL APPLIES TO STEEL DECK AND CONC FILLED STEEL DECK.
2. MULTIPLE OPENINGS THAT DO NOT COMPLY WITH SPACING REQUIREMENTS SHALL BE CONSIDERED A LARGE OPENING.
3. OCCURRENCE OF GIRDERS OR JOISTS DOES NOT CHANGE REQ SPACING OF OPENINGS

12 SPACING OF OPNGS IN STL DECK

1" = 1'-0" S-_053100_T041B 170518. Q1

13 TYP COMPOSITE DECK PROPERTIES

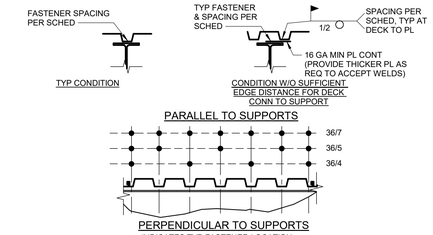
SCALE: NTS S-_053100_T050A 170828. Q2



ATTACHMENT ZONE	TYP FASTENER	FASTENER PATTERN	SIDE SEAM CONN	PARALLEL CONN SPACING
ZONE 1 (TYP UNO)	1/2" DIA (EFFECTIVE) PUDDLE WELDS	36/4	BUTTON PUNCH @ 24" OC	12" OC

17 TYP NON-COMPOSITE DECK PROPERTIES

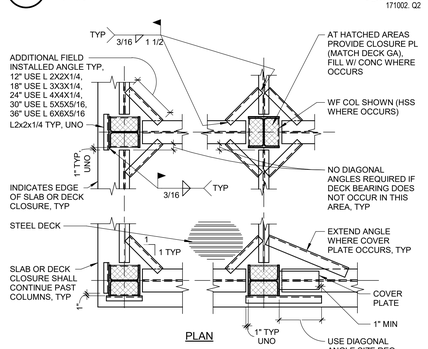
SCALE: NTS S-_053100_T050B 170828. Q1



ATTACHMENT ZONE	TYP FASTENER	FASTENER PATTERN	SIDE SEAM CONN	PARALLEL CONN SPACING
ZONE 1 (TYP UNO)	1/2" DIA (EFFECTIVE) PUDDLE WELDS	36/7/4: (36/7 AT PANEL ENDS, 36/4 AT INTERMEDIATE)	DELTAGRIP @ 24" OC	12" OC

19 TYP 3" TYPE 'N' NON-COMPOSITE STEEL DECK ATTACHMENT

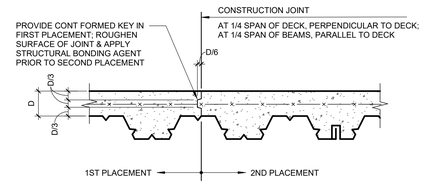
SCALE: NTS S-_053100_T027A 200304. Q2



NOTES:
1. SEE PLANS FOR STEEL FRAMING SIZES AND ORIENTATION.
2. SEE PLANS FOR DECK TYPE, SIZE, GA AND SPAN.

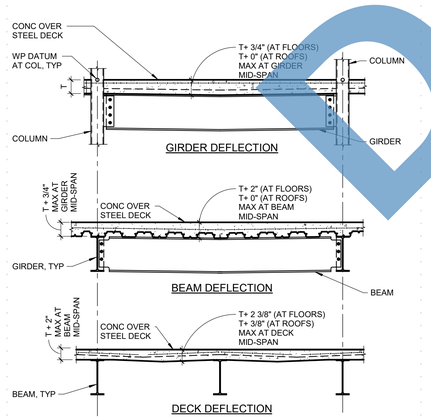
4 TYP STL DECK SUPPORT AT COL

1/2" = 1'-0" S-_053100_T015A 181001. Q2



8 TYP CONSTRUCTION JOINT AT CONC FILLED STEEL DECK

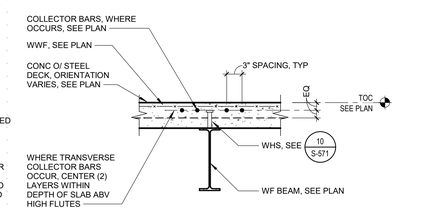
1 1/2" = 1'-0" S-_053100_T001A 140127. Q2



NOTES:
1. T = MINIMUM TOTAL SLAB THICKNESS IDENTIFIED ON PLANS. THE STRUCTURE HAS BEEN DESIGNED FOR ADDITIONAL CONCRETE WEIGHT FOR THE MAXIMUM THICKNESS AS SHOWN ABOVE.
2. SLAB LEVELNESS CAN BE ACHIEVED BY ADDING CONCRETE UP TO THE MAXIMUM DIMENSIONS SHOWN ABOVE. DO NOT EXCEED THE MAXIMUM THICKNESS INDENTIFIED.
3. TOP OF CONCRETE SURFACE ELEVATION SHALL NOT VARY BY MORE THAN +/- 3/4" FROM THE AVERAGE ELEVATION. DEPRESSIONS IN FLOORS BETWEEN HIGH SPOTS SHALL NOT BE GREATER THAN 5/16" BELOW A 10 FOOT LONG STRAIGHT EDGE AND SHALL MEET AS A MIMINUM FF 25.
4. SAD FOR FLOOR SLAB LEVELNESS REQUIRED BY FLOOR FINISH. LEVELING COMPOUND ADDED TO TOP OF SLAB TO ACHIEVE THIS LEVELNESS SHALL NOT EXCEED MAXIMUM THICKNESS INDICATED FOR CONCRETE.
5. SEE PLANS FOR DECK, CONCRETE FILL, FRAMING AND CONNECTIONS.

16 TYP ALLOWABLE ELEVATED CONCRETE DECK THICKNESS

SCALE: NTS S-_053100_T038A 210204. Q2



NOTE:
1. FOR ADDITIONAL INFORMATION NOT SHOWN, SEE 10 S-571

20 DETAIL

1" = 1'-0" Q2

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Sacramento CA 95818
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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER GARRION E. HUNTINGTON No. S42637 STRUCTURAL OF CALIFORNIA 8/22/2023

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE
DETAILS - TYPICAL STEEL DECKING

SHEET
S-571

V1

Draft

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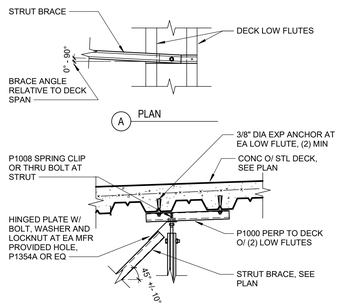
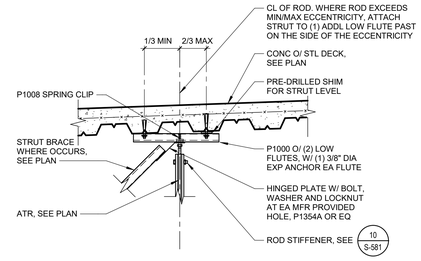
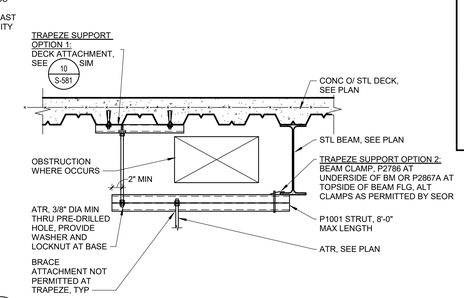


5 DETAIL
1" = 1'-0"



NOTES:
1. DETAIL SIMILAR AT GRAVITY ONLY SUPPORTS W/O BRACES.
2. WHERE OBSTRUCTION OCCURS AT SUPPORT ROD, PROVIDE TRAPEZE ASSEMBLY PER 13 S-581 TRAPEZE NOT PERMITTED ON SUPPORTS W/ BRACING, TYP UNO.

9 DETAIL
1" = 1'-0"

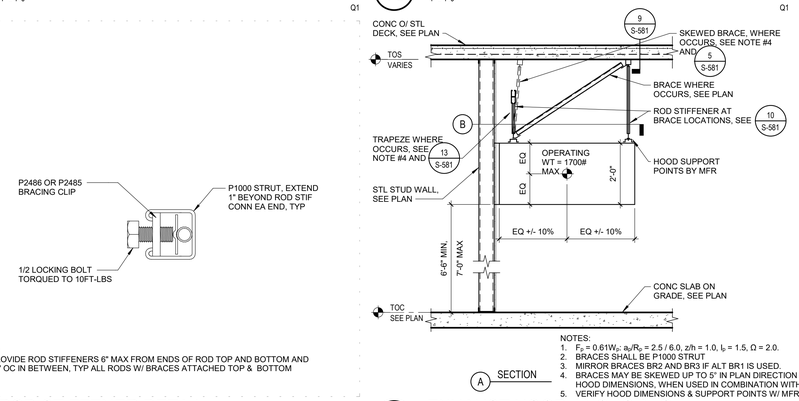


NOTES:
1. TRAPEZE SUPPORT OPTIONS 1 OR 2 MAY BE USED INTERCHANGIBLY EXCEPT WHERE BRACES OCCUR AT TOP OF SUPPORT ROD, TYP.

13 DETAIL
1" = 1'-0"

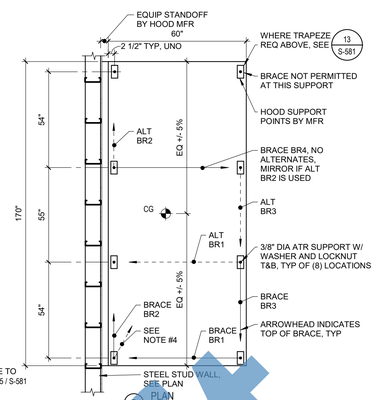
STRUT NOTES

1. ALL PARTS DESIGNATED WITH P#### SHALL BE MANUFACTURED BY UNISTRUT TYP, UNO. UNISTRUT PARTS MAY BE SUBSTITUTED WITH THE EQUIVALENT "TOLCO" OR "B-LINE" PARTS PROVIDED THEY MEET THE SECTION PROPERTIES, CONFIGURATION, CONNECTION POINTS, AND MATERIAL STRENGTH OF THE "UNISTRUT" BASIS OF DESIGN PART.
2. ALL SUSPENDED HORIZ STRUT RAILS SHALL BE UNISTRUT P1001 TYP, UNO.
3. ALL BRACES SHALL BE P1000 TYP, UNO.
4. STRUT SURFACE MOUNTED AT FACE OF WALL SHALL BE P1000, STRUT SHALL EXTEND UNIT WIDTH PLUS ONE STUD BEYOND UNIT, (2) STUDS MINIMUM W/ (1) #12 SCREW AT EA STUD, TYP UNO. BACKING NEED NOT BE APPLIED WHERE SURFACE MOUNTED STRUT IS USED, TYP UNO.
5. ALL VERTICAL STRUT ROD STIFFENERS SHALL BE UNISTRUT P1000 TYP, UNO.
6. WHERE ACCESS ALLOWS, BOLTS SHALL BE THRU BOLTED THROUGH STRUT, TYP UNO. CHANNEL NUTS AND SPRING CLIPS ARE ONLY PERMITTED WHERE SPECIFICALLY NOTED.
   3/8" DIA BOLT INSTALLATION TORQUE = 50 FT-LBS
   1/2" DIA BOLT INSTALLATION TORQUE = 50 FT-LBS

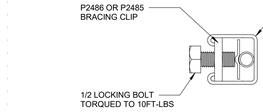


A SECTION

NOTES:
1. $F_p = 0.61W_p$; $a_p/R_p = 2.5 / 6.0$, $z/h = 1.0$, $I_p = 1.5$, $\Omega = 2.0$.
2. BRACES SHALL BE P1000 STRUT
3. MIRROR BRACES BR2 AND BR3 IF ALT BR1 IS USED.
4. BRACES MAY BE SKEWED UP TO 5° IN PLAN DIRECTION RELATIVE TO HOOD DIMENSIONS, WHEN USED IN COMBINATION WITH DETAIL 5 / S-581
5. VERIFY HOOD DIMENSIONS & SUPPORT POINTS W/ MFR



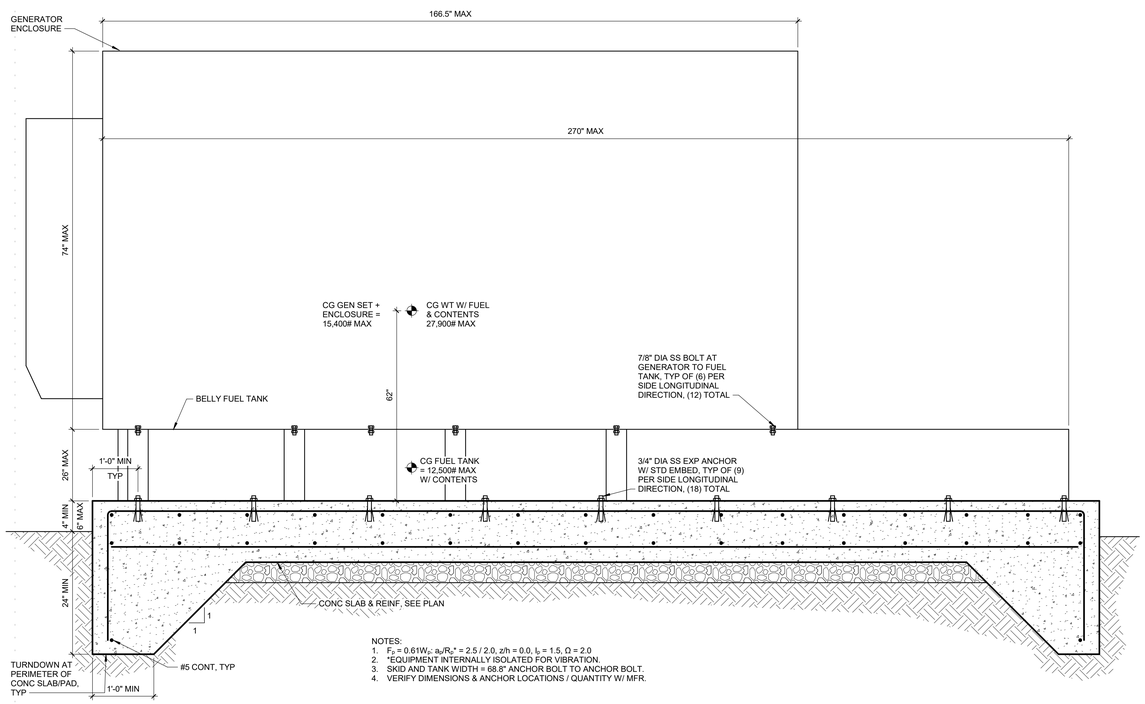
14 EXHAUST HOOD ANCHORAGE
1/2" = 1'-0"



NOTE:
1. PROVIDE ROD STIFFENERS 6" MAX FROM ENDS OF ROD TOP AND BOTTOM AND 12" OC IN BETWEEN, TYP ALL RODS W/ BRACES ATTACHED TOP & BOTTOM

10 ROD STIFFENER DETAIL
6" = 1'-0"

USTRUT_Unistrut Detail
210112. Q1



NOTES:
1. $F_p = 0.61W_p$; $a_p/R_p^* = 2.5 / 2.0$, $z/h = 0.0$, $I_p = 1.5$, $\Omega = 2.0$
2. *EQUIPMENT INTERNALLY ISOLATED FOR VIBRATION.
3. SKID AND TANK WIDTH = 68.8" ANCHOR BOLT TO ANCHOR BOLT.
4. VERIFY DIMENSIONS & ANCHOR LOCATIONS / QUANTITY W/ MFR.

4 GENERATOR ANCHORAGE
1" = 1'-0"

Draft

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AGENCY

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER GARRION E. HUNTINGTON No. S4786 STATE OF CALIFORNIA
08/30/2023

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BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
DETAILS - EQUIPMENT ANCHORAGE

SHEET
S-581
V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
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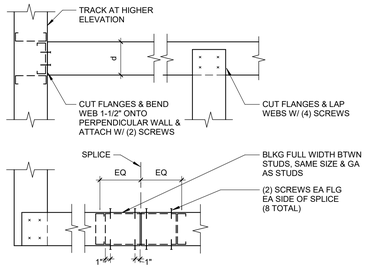
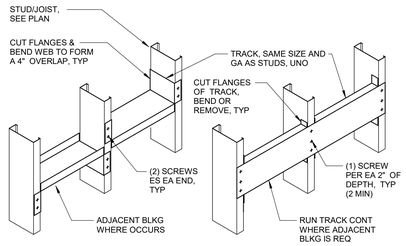


NOTE:
1. THIS DETAIL DOES NOT APPLY WHERE TOP TRACK IS DIRECTLY FASTENED TO STRUCTURE @ 24" OC MAX, UNO

1 TYP STEEL TOP TRACK FRAMING AT CORNERS, INTERSECTIONS, AND SPLICES

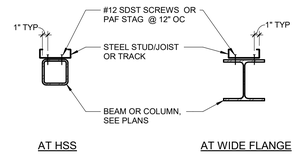
1" = 1'-0" S-_054000_T003A 170104. Q2



FULL DEPTH BLOCKING FLAT BLOCKING

5 TYP STEEL STUD / JOIST BLOCKING

1" = 1'-0" S-_054000_T003A 160715. Q2



AT HSS AT WIDE FLANGE

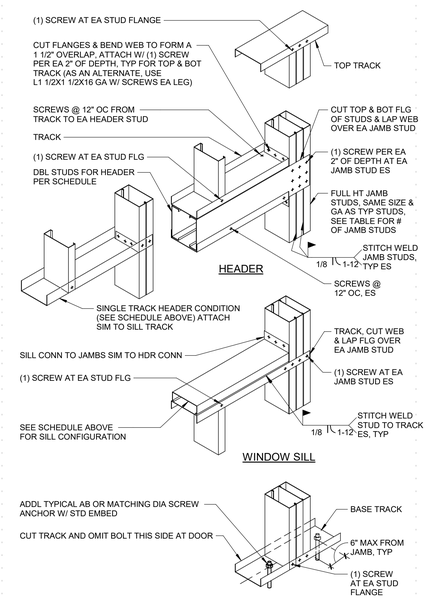
NOTES:
1. SIMILAR AT OTHER STEEL SHAPES

9 TYP STEEL FRMG CONNECTION TO STRUCTURAL STEEL

1" = 1'-0" S-_054000_T007A 160715. Q2

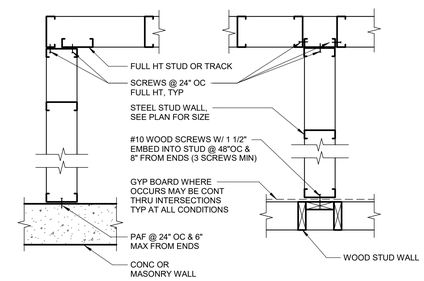
OPENING WIDTH, L	HEADERS		JAMBS		SILLS	
	TYPE	EXTERIOR & STRUCTURAL INTERIOR HEADER SIZE OF DOUBLE STUDS, UNO	TYPE	QUANTITY & GA OF JAMB STUDS.	TYPE	QUANTITY & TYPE OF SECTIONS AT SILL
L ≤ 4'	HS1	362S162-43	JS1	(1) TYP STUD	SS1	(1) TYP TRACK
4' < L ≤ 8'	HS2	600S162-43	JS2	(2) TYP STUDS	SS2	(1) TYP TRACK AND (1) TYP STUD
8' < L ≤ 12'	HS3	1000S162-54	JS3	(3) TYP STUDS	SS3	(1) TYP TRACK AND (1) TYP STUD

NOTE: USE HEADER & JAMB TYPE NOTED BASED ON OPNG WIDTH UNLESS SPECIFIC HEADER OR JAMB TYPE NOTED ON PLANS.



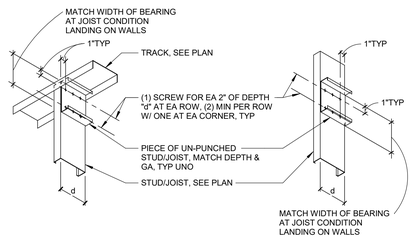
14 TYP STEEL STUD WALL FRAMING AT OPENINGS

1" = 1'-0" S-_054000_T023A 180820. Q2



2 TYP STEEL STUD WALL FRAMING AT CORNERS AND INTERSECTIONS

1" = 1'-0" S-_054000_T022A 170104. Q2

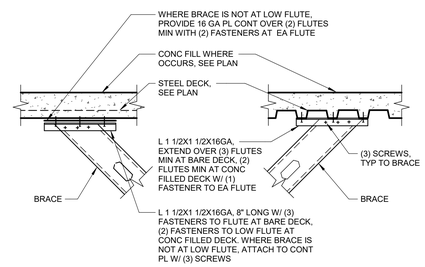


END CONDITION INTERMEDIATE CONDITION

NOTES:
1. USE ONLY WHERE NOTED IN OTHER DETAILS. WHERE WEB STIFFENERS ARE REQUIRED, INSTALL AT EA END AND AT INTERMEDIATE SUPPORTS OF STUD/JOIST, UNO.
2. ORIENTATION SHOWN IS FOR STUD, JOIST CONDITION SIMILAR.

6 TYP STEEL STUD / JOIST WEB STIFFENER

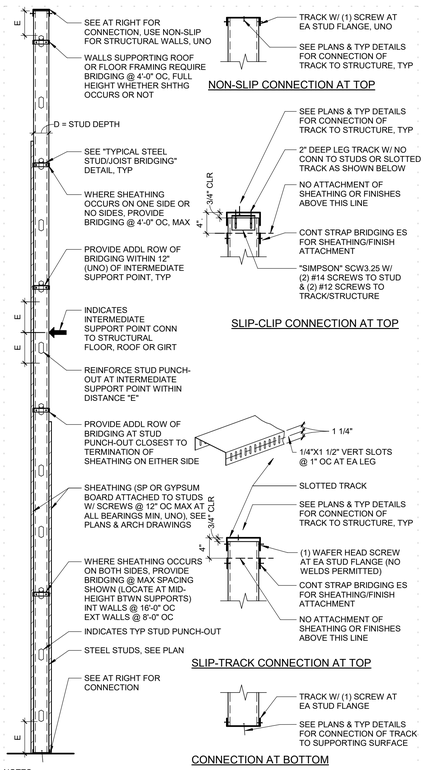
1" = 1'-0" S-_054000_T031A 160715. Q2



NOTES:
1. FASTENERS SHALL BE:
   AT BARE DECK: (1) SCREW
   AT CONC-FILLED DECK: 3/8" DIA "HILTI" KB-TZ W/ 2 3/8" EMBED, 3/8" DIA "SIMPSON" STRONG-BOLT 2 W/ 2" EMBED, OR 3/8" DIA "DEWALT" POWER-STUD+ SD2 W/ 2 3/8" EMBED.
2. DECK MAY SLOPE, SEE PLANS

10 TYP BRACE CONN TO DECK

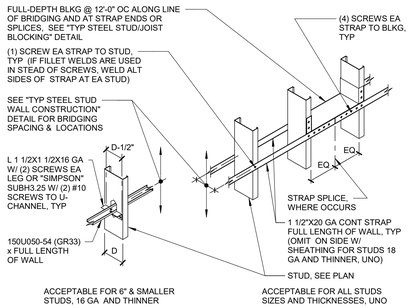
1" = 1'-0" S-_054000_T026A 200302. Q2



NOTES:
1. E = D OR 10", WHICHEVER IS GREATER, MIN. ALT: REINFORCE PUNCH OUT PER TYP DETAIL.
2. SEE ARCH FOR FIRE RATED WALL CONSTRUCTION REQUIREMENTS AND BACKING REQUIREMENTS.

4 TYP STEEL STUD WALL CONSTRUCTION

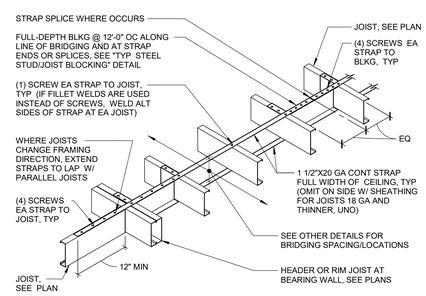
1" = 1'-0" S-_054000_T021A 190415. Q2



U-CHANNEL BRIDGING AT STUDS STRAP BRIDGING AT STUDS

7 TYP STEEL STUD BRIDGING

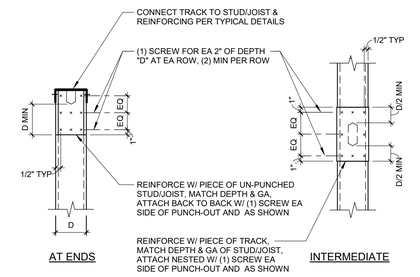
3/4" = 1'-0" S-_054000_T004A 190415. Q2



STRAP BRIDGING AT JOISTS

11 TYP STEEL JOIST BRIDGING

3/4" = 1'-0" S-_054000_T004B 190415. Q2

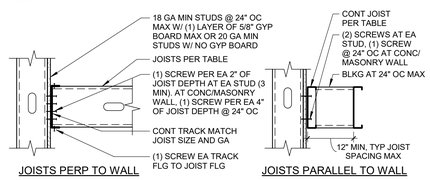


AT ENDS INTERMEDIATE

NOTES:
1. USE ONLY WHERE NOTED IN OTHER DETAILS.
2. ORIENTATION SHOWN IS FOR STUD, JOIST CONDITION SIMILAR.

8 TYP STEEL STUD / JOIST PUNCH-OUT REINFORCING

1" = 1'-0" S-_054000_T010A 160715. Q2



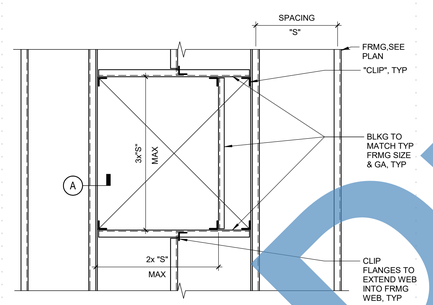
JOISTS PERP TO WALL JOISTS PARALLEL TO WALL

MAX SPAN	MIN JOIST SIZE UNO	MAX JOIST SPACING	MAX BRIDGING SPACING
8'-0"	362S162-54	24"	NONE
	362S162-43	16"	NONE
12'-0"	600S162-54	24"	7'-0"
	600S162-43	16"	8'-0"
16'-0"	800S162-54	24"	6'-0"

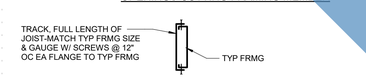
NOTES:
1. WHERE BRIDGING IS REQUIRED, SEE TYP DETAIL
2. DESIGN CAPACITY: 30 PSF UP OR DOWN (ASD) OR NET WIND UPLIFT = 70 PSF (ULTIMATE), DEFLECTION = L/360 MAX
3. SCREWS TO STUD WALLS SHALL BE #12 SCREWS (1 1/2" MIN EMBED AT WOOD). SCREWS TO CONC/MASONRY WALLS SHALL BE 1/4" DIA "HILTI" HUS-EZ OR "DEWALT" SCREWBOLT+ W/ 1 5/8" MIN EMBED (SPACED @ 4" OC MIN)

12 TYP STEEL JOIST EXTERIOR SOFFIT FRAMING

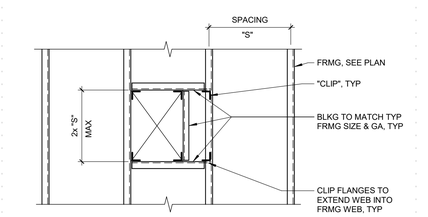
1" = 1'-0" S-_054000_T006A 190415. Q2



OPENINGS CUTTING FRAMING MEMBER



A SECTION AT FULL LENGTH JOISTS ES OF OPENING



OPENINGS NOT CUTTING A FRAMING MEMBER

NOTE:
1. "CLIP" REFERS TO 16 GA L1 1/2X1 1/2 x (FRMG DEPTH-1") OR EQUIVALENT "SIMPSON" RCA OR L CLIP W/ (1) SCREW PER 2" OF FRMG DEPTH AT EA LEG.

16 TYP STEEL JOIST/RAFTER FRAMING AT OPENINGS

1" = 1'-0" S-_054000_T032A 190506. Q2

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REGISTERED PROFESSIONAL ENGINEER GARRON E. HUNTINGTON No. S4786 STATE OF CALIFORNIA 08/30/2023

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221 TWIN LAKES RD
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CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
DETAILS - TYPICAL COLD FORMED STEEL FRAMING

SHEET
S-591

V1

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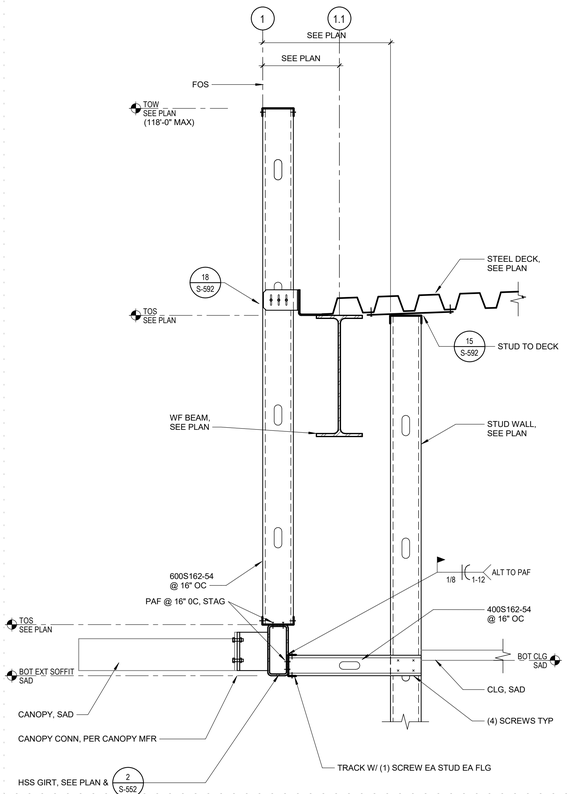
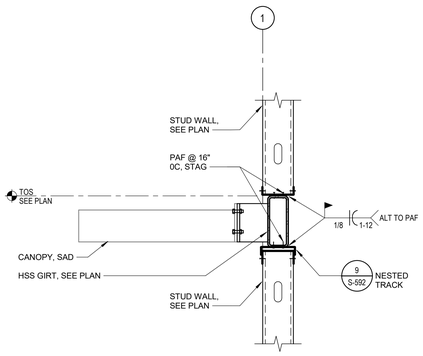


2 DETAIL

1" = 1'-0"

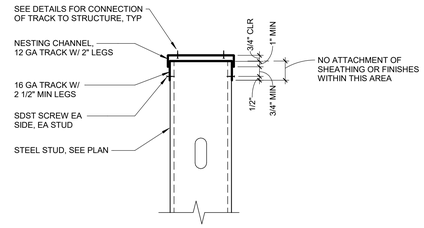
Q2



3 DETAIL

1" = 1'-0"

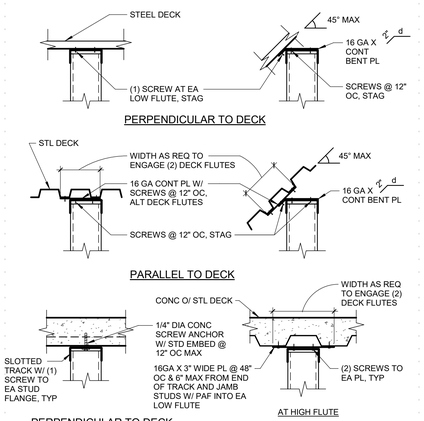
Q2



9 TYP NESTED TRACK

SCALE: NTS

S-_054000_T029A
140127. Q2

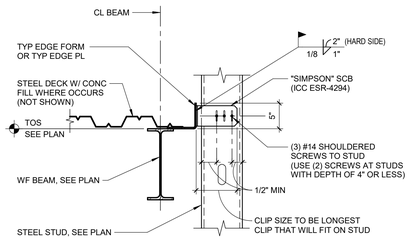


NOTES:
1. SEE PLANS AND DETAILS FOR CONNECTION OF STUD TO TRACK.
2. TRACK MAY BE FASTENED TO COMPOSITE DECK PRIOR TO PLACING CONCRETE AS SHOWN FOR NON-COMPOSITE DECK.

15 TYP STRUCT WALL CONN AT TOP

SCALE: NTS

S-_054000_T037A
170828. Q2

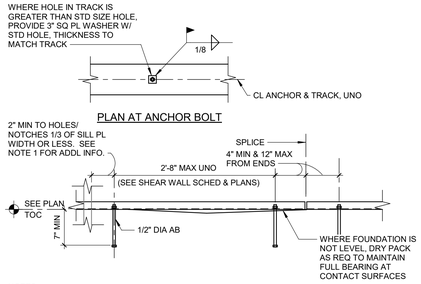


NOTES:
1. SEE "TYP STUD WALL CONSTRUCTION" DETAIL FOR PUNCH-OUT REINFORCING REQUIREMENTS.
2. USE (2) CLIPS (1 EA SIDE) AT KING, JAMB OR BUILT-UP STUDS.

18 TYP STUD WALL SLIP CONNECTION AT DECK EDGE

SCALE: NTS

S-_054000_T015B
190926. Q2



NOTES:
1. TRACKS BORED, CUT OR NOTCHED MORE THAN 1/3 OF WIDTH SHALL HAVE ADDL BOLTS EACH SIDE OF BORE, CUT OR NOTCH (AS FOR SPLICES)
2. TWO BOLTS MIN FOR EACH PIECE OF SILL
3. OUTSIDE DIA OF THREADS MUST EQUAL BOLT SHANK DIA
4. HOLDOWN BOLTS DO NOT REPLACE ANCHOR BOLTS
5. CENTER ALL AB'S ON CENTERLINE OF SILL UNO
6. SILL TRACK ANCHOR BOLTS MAY BE PLACED W/ 1/2" DIA X 4" "SIMPSON" TITEN HD W/ 3 1/4" MIN EMBED (1 3/4" MIN CONC EDGE DISTANCE AND 8" MIN CONC END DISTANCE).

20 TYP AB AT SILL TRACK

SCALE: NTS

S-_054000_T020B
200716

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TITLE

DETAILS - TYPICAL COLD FORMED STEEL FRAMING

SHEET

S-592

V1

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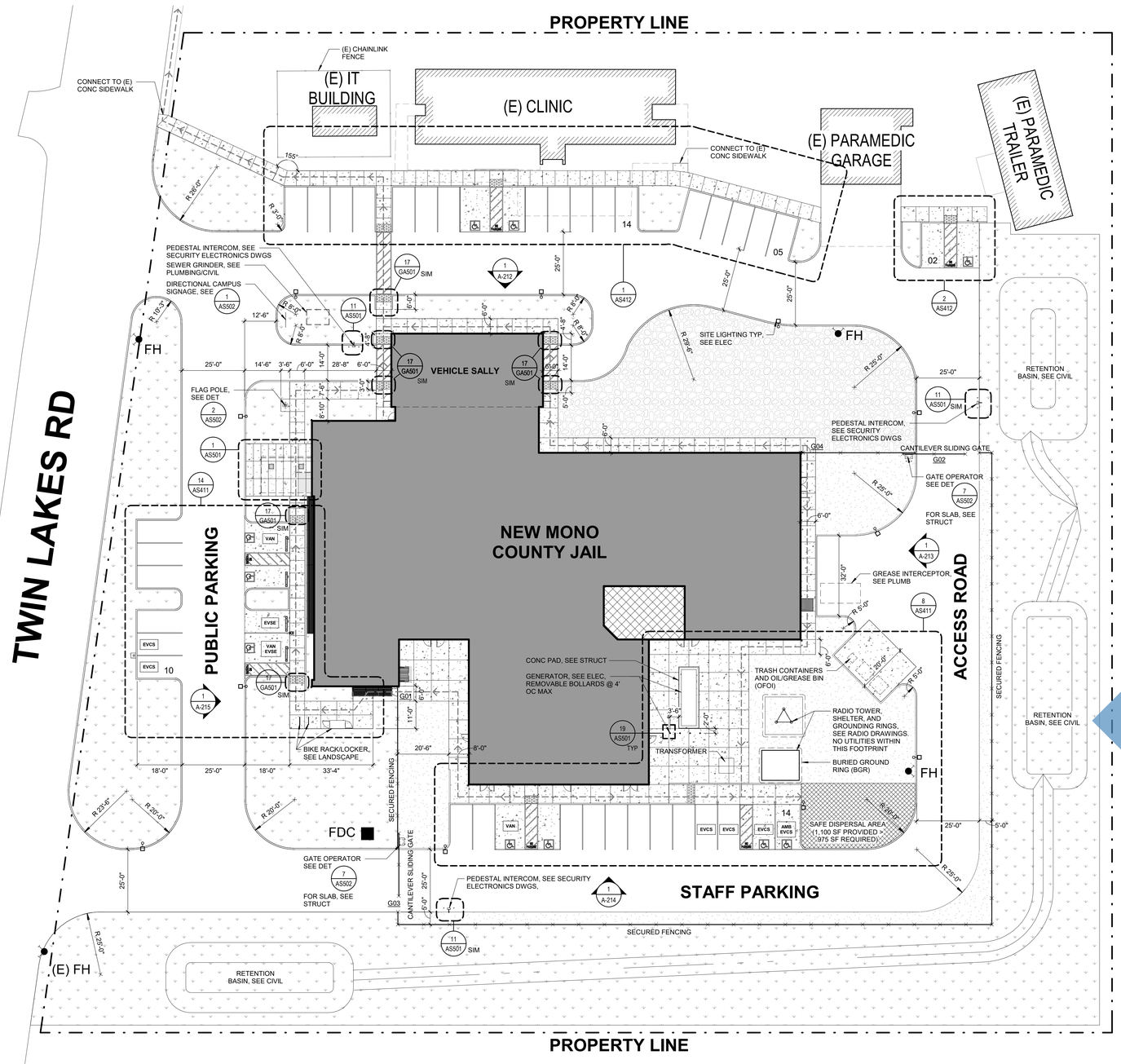

1 SITE PLAN
1" = 20'-0"

NORTH

GENERAL NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON. EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP
3. SEE CIVIL DRAWINGS FOR GRADING AND DRAINAGE AROUND THE BUILDING.
4. SEE CIVIL AND LANDSCAPE DRAWINGS FOR DETAILS OF IMPROVED FLATWORK AREAS NOTED ON THESE SHEETS.
5. COORDINATE UTILITY INFORMATION WITH CIVIL, LANDSCAPE, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
6. ALL ITEMS ARE CONSIDERED NEW UNLESS IDENTIFIED AS EXISTING, THESE NEW ITEMS SHALL BE INCLUDED IN THE CONTRACT, UON.
7. SEE LANDSCAPE DRAWINGS FOR WALKWAY JOINT DETAILS.
8. CROSS-SLOPE OF NEW PAVING/WALKWAYS SHALL NOT EXCEED 1.5%. SLOPE ALONG THE PATH OF TRAVEL SHALL NOT EXCEED 5% UON.
9. ALL EXTERIOR MASONRY SURFACES ARE TO RECEIVE ONE COAT OF WATER REPELLENT PRODUCT. SEE LEGEND BELOW FOR LOCATIONS WHERE A SECOND APPLICATION OF (ANTI-GRAFFITI) COATING IS REQUIRED ON THE BUILDING WALL SURFACES

SITE LEGEND

- PROPOSED BUILDING
- (E) BUILDING
- LANDSCAPING, SEE LANDSCAPE DRAWINGS
- DECOMPOSED GRANITE SURFACE, SEE LANDSCAPE DRAWINGS
- CRUSHED DECORATIVE AGGREGATE SURFACE, SEE LANDSCAPE DRAWINGS
- CONCRETE SIDE WALKS AND PADS, SEE CIVIL AND LANDSCAPE DRAWINGS
- AC PAVING
- SECURITY WOVEN MESH
- SAFE DISPERSAL AREA
- FH — FIRE HYDRANT
- FDC — FIRE DEPARTMENT CONNECTION

ACCESSIBLE PATH OF TRAVEL
(BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 1.5% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL BETWEEN 27" AND 80" ABOVE GRADE. SEE CIVIL DRAWINGS FOR SIDEWALK AND PAVED ROAD LOCATIONS, TYP)

GATE SCHEDULE

GATE NO.	GATE TYP	NO OF PANELS	HEIGHT	OPENING WIDTH*	DETAIL	HARDWARE GROUP	COMMENTS
G01	SWING CHAINLINK	1	7'-0"	4'-0"	10 / AS503	DH7	--
G02	SLIDING CHAINLINK	1	12'-0"	24'-0"	7 / AS502	08	--
G03	SLIDING CHAINLINK	1	12'-0"	24'-0"	7 / AS502	08	--
G04	SWING CHAINLINK	1	7'-0"	4'-0"	10 / AS503	DH7	--

PARKING CALCULATIONS

ELECTRIC VEHICLE (EV) CHARGING PER CALGREEN TABLE 5.106.5.3.1

PARKING AREA	TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)
PUBLIC/STAFF	45	8	2

REQUIRED ACCESSIBLE PARKING SPACES PER TABLE 11B-208.2 AND SECTION 11B-208.2.4

PARKING AREA	TOTAL NUMBER OF PARKING SPACES	MINIMUM NUMBER OF REQUIRED ACCESSIBLE PARKING SPACE	MINIMUM NUMBER OF VAN ACCESSIBLE PARKING SPACES
PUBLIC	31	2	1
STAFF	14	1	1

ACCESSIBLE SPACES REQUIREMENTS PER CBC TABLE 11B-228.3.2.1 AND SECTION 11B-228.3.2

PARKING AREA	TOTAL NUMBER OF EVCS AT A FACILITY	MINIMUM NUMBER OF EVCS REQUIRED TO COMPLY WITH SECTION 11B-812		
		VAN ACCESSIBLE	STANDARD ACCESSIBLE	AMBULATORY
PUBLIC/STAFF	26-50	1	1	1

ACTUAL PARKING COUNT

PARKING AREA	STANDARD SPACES	VAN ACCESSIBLE PARKING SPACES	STANDARD ACCESSIBLE PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)	TOTAL
PUBLIC	21	1	1	8	2	31
STAFF	9	1	0	4	0	14

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TITLE
SITE PLAN

SHEET
AS101
V1

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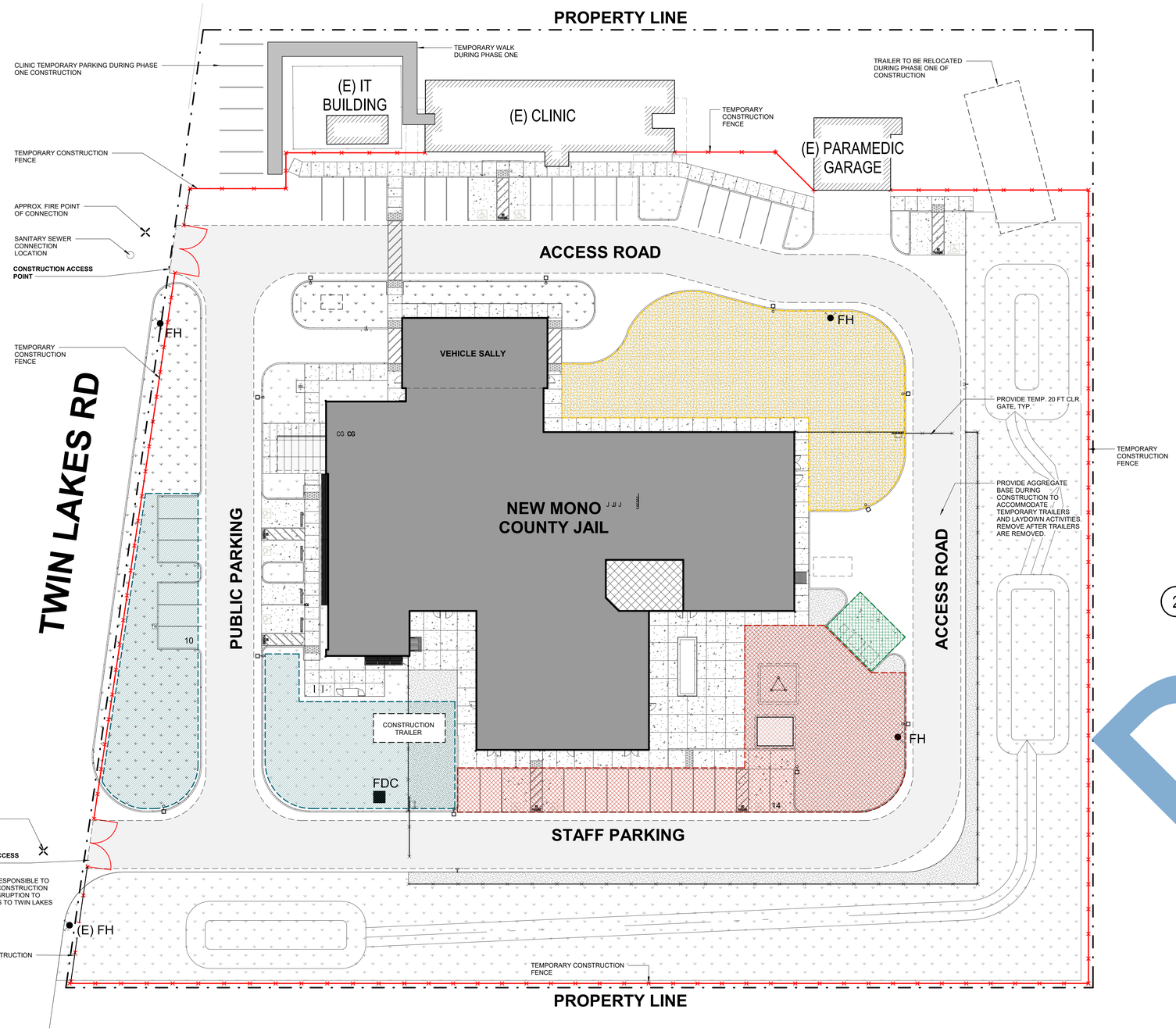
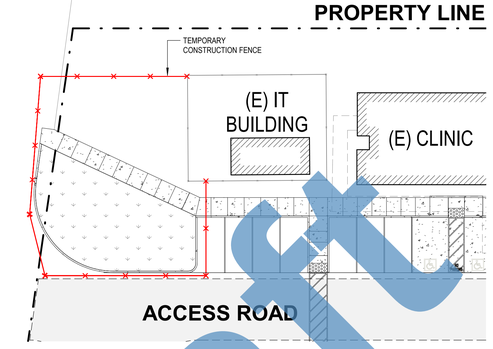


1 SITE PLAN - LOGISTICS - PHASE 1
SCALE 1" = 20'-0"

NORTH

0' 10' 20' 40'



2 SITE PLAN - LOGISTICS - PHASE 2
SCALE 1" = 20'-0"

SITE LOGISTICS LEGEND

- PROPOSED BUILDING
- (E) BUILDING
- PROPOSED CONSTRUCTION VEHICLE PARKING
- PROPOSED JOB TRAILER LOCATION AND PARKING
- PROPOSED MATERIAL LAYDOWN/ STAGING AREA
- FIRE APPARATUS ACCESS ROAD (REQUIRED PER 2019 TITLE 19, DIVISION 1, CHAPTER 1, SUBCHAPTER 1, ARTICLE 3.05(a)) REQUIRED ACCESS ROADS FROM BUILDING TO THE PUBLIC STREET SHALL BE ALL-WEATHER HARD-SURFACED (SUITABLE FOR USE BY FIRE APPARATUS) RIGHT-OF-WAY NOT LESS THAN 20 FT. IN WIDTH. SUCH RIGHT-OF-WAY SHALL BE UNOBSTRUCTED & MAINTAINED ONLY AS ACCESS TO THE PUBLIC STREET.
- FH — FIRE HYDRANT
- FDC — FIRE DEPARTMENT CONNECTION
- PROPOSED TEMPORARY CONSTRUCTION FENCING
- PROPOSED REFUSE/ RECYCLING CONTAINERS
- TEMPORARY WALK DURING PHASE ONE OF CONSTRUCTION

GENERAL NOTES

SEQUENCING OF TEMPORARY CONSTRUCTION AT LAYDOWN/ STAGING AREAS

1. CONTRACTOR TO COORDINATE WITH OWNER AND UTILITY COMPANIES FOR TIE-IN OF TEMPORARY POWER, PHONE, AND WATER. THE PLAN IS TO TIE-IN THE TEMPORARY UTILITIES FROM A TEMPORARY POWER PANEL, WATER SOURCE, AND DATA CONNECTION THAT TIES INTO THE EXISTING UTILITY ON BAY AVENUE.
2. CONTRACTOR TO PROVIDE A MINIMUM 6" OF CLASS II AGGREGATE BASE WITH 90% COMPACTION OVER 3" OF 90% COMPACTED SUBGRADE AT LAYDOWN AND STAGING AREAS.
3. CONTRACTOR TO PROVIDE A MINIMUM OF 6" CLASS II AGGREGATE BASE WITH 90% COMPACTION OVER 4" OF COMPACTED SUBGRADE AT FIRE LANE AND DRIVEWAYS. THESE AREAS ARE TO BE MAINTAINED FOR THE DURATION OF CONSTRUCTION.
4. ALL STAGING AND PARKING AREAS TO BE CLEANED AND PREPARED TO BE DEVELOPED TO THEIR FINISHED DESIGN WHEN STAGING OF MAJOR BUILDING COMPONENTS HAS CONCLUDED.

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TITLE
SITE LOGISTICS PLAN

SHEET
AS102
V1

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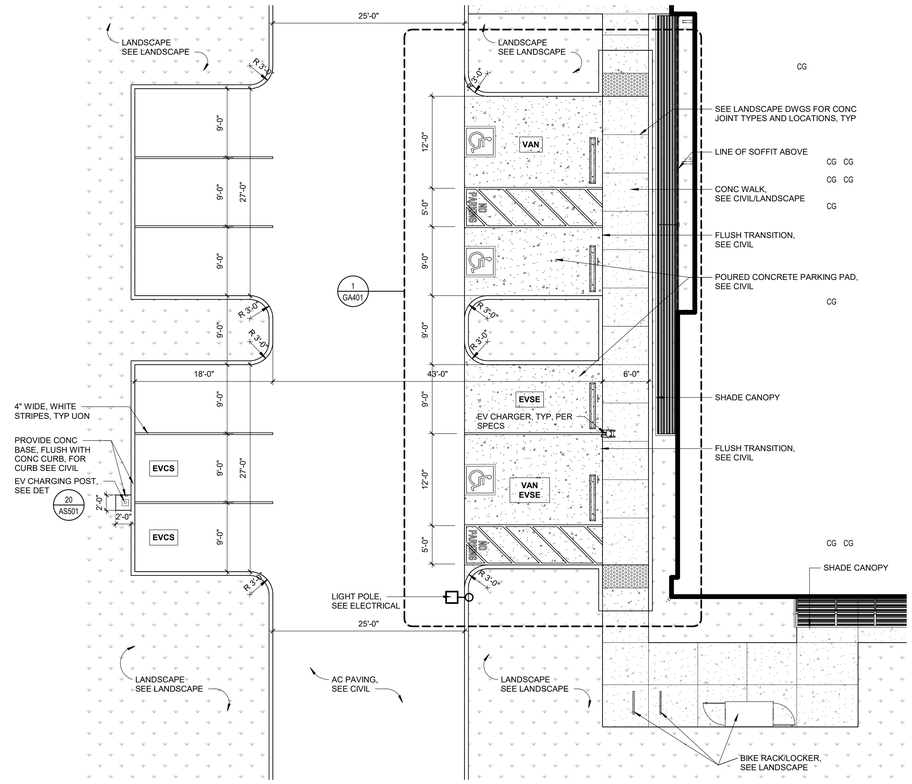
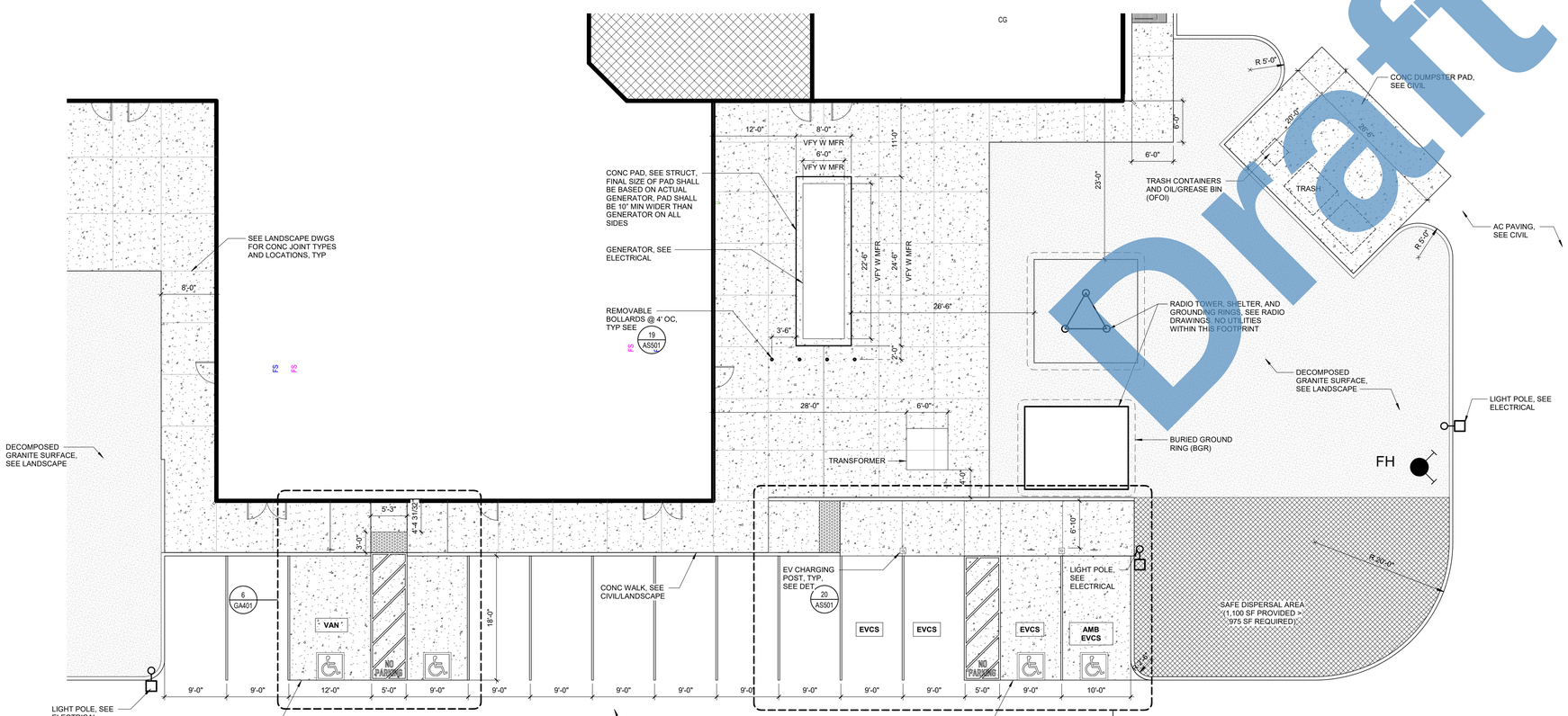


14 SITE PLAN - ENLARGED PUBLIC PARKING
1/8" = 1'-0"



8 SITE PLAN - ENLARGED STAFF PARKING
1/8" = 1'-0"

NORTH

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TITLE

LARGE SCALE VIEWS - SITE

SHEET

AS411

V2

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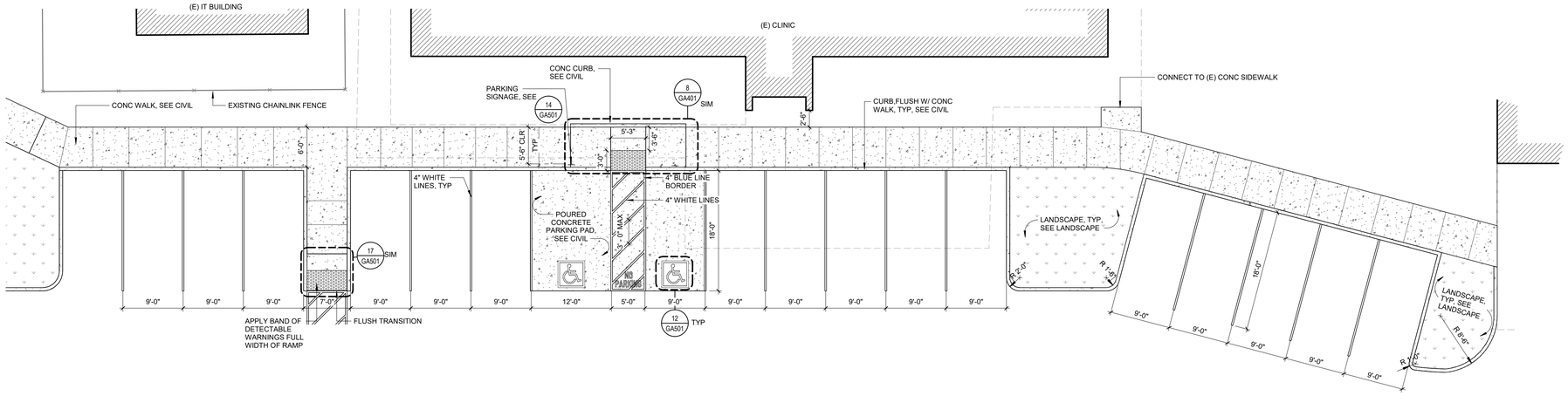
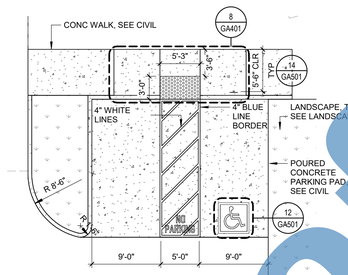


1 SITE PLAN - ENLARGED (E) FACILITIES PARKING 1
1/8" = 1'-0"

NORTH



2 SITE PLAN - ENLARGED (E) FACILITIES PARKING 2
1/8" = 1'-0"

NORTH

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TITLE

LARGE SCALE VIEWS -SITE

SHEET

AS412

V2

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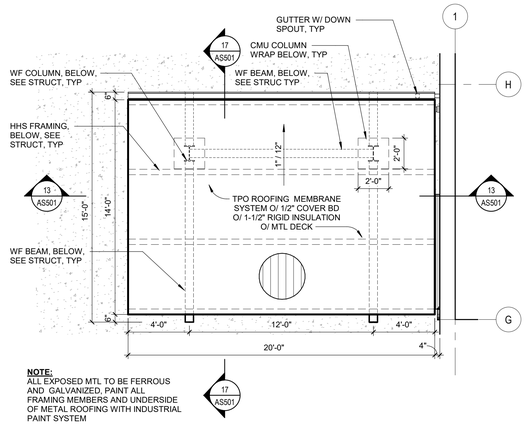
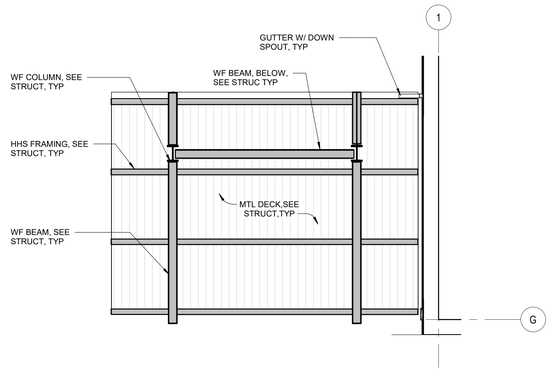
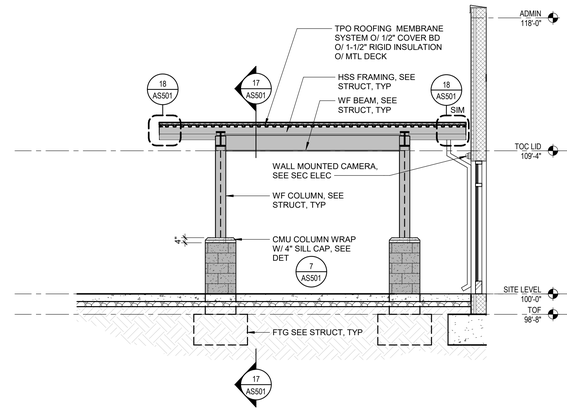


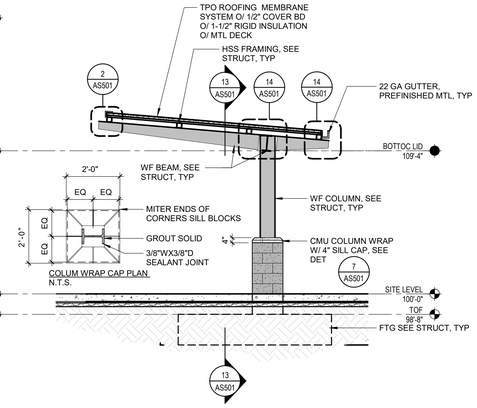
1 ROOF PLAN - ENTRY CANOPY
1/4" = 1'-0"



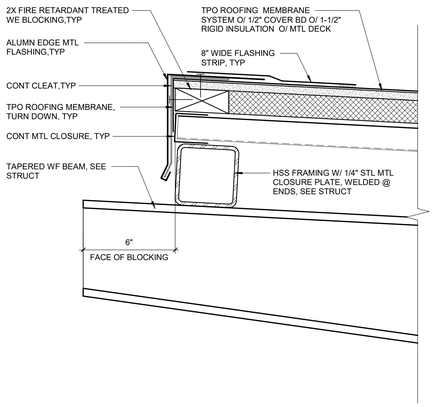
5 CEILING PLAN - ENTRY CANOPY
1/4" = 1'-0"



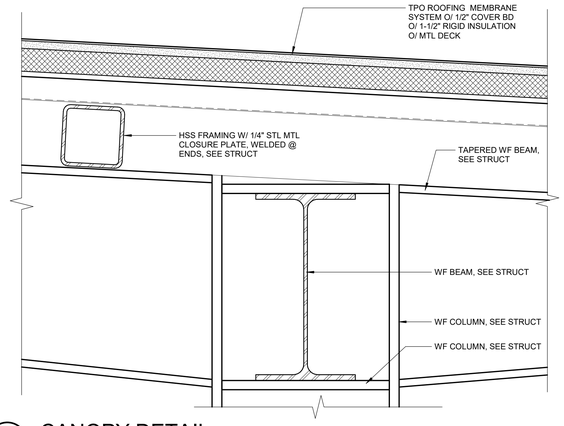
13 SITE - ENTRY CANOPY SECTION 1
1/4" = 1'-0"



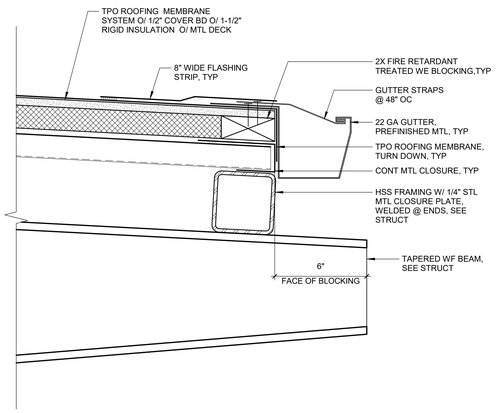
17 SITE - ENTRY CANOPY SECTION 2
1/4" = 1'-0"



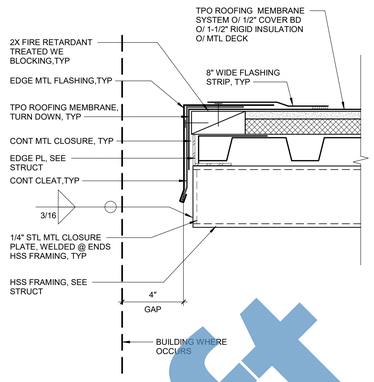
2 CANOPY DETAIL
3" = 1'-0"
?YYMMDD?.Q1



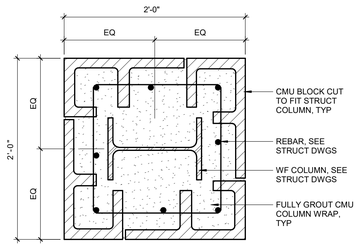
6 CANOPY DETAIL
3" = 1'-0"
Q1



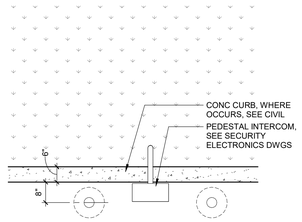
14 CANOPY DETAIL
3" = 1'-0"
Q1



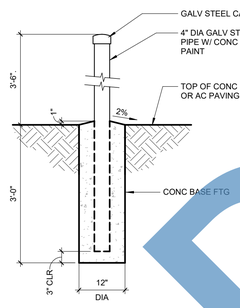
18 CANOPY DETAIL
3" = 1'-0"
Q1



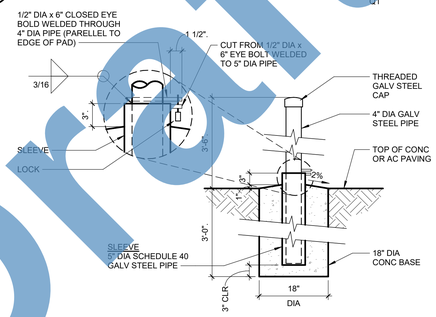
7 CMU COLUMN WRAP
1 1/2" = 1'-0"
?DRS TRACKING NUMBER?



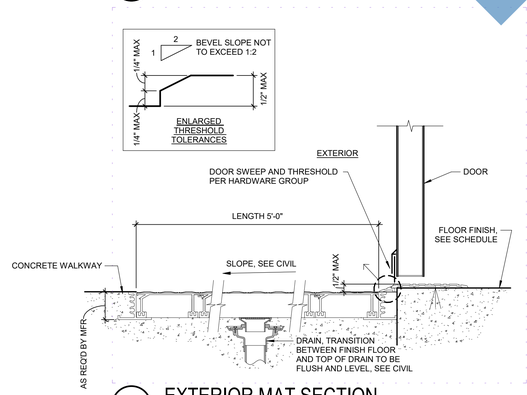
11 PIPE BOLLARD AT INTERCOM
1/2" = 1'-0"



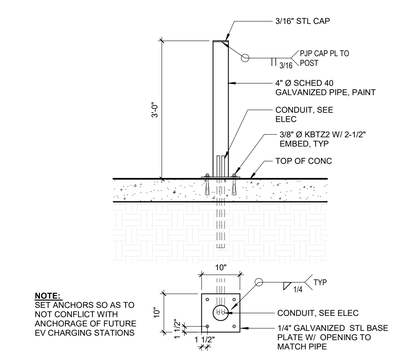
15 PIPE BOLLARD
3/4" = 1'-0"
0500_0100_BOLLARD_01



19 REMOVABLE PIPE BOLLARD
3/4" = 1'-0"
0500_0100_BOLLARD_02



16 EXTERIOR MAT SECTION
3" = 1'-0"
WALK OFF MAT
Q1



20 EV CHARGING - 4" POST
3/4" = 1'-0"
Q1

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MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
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P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
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SHEET
AS501
V1

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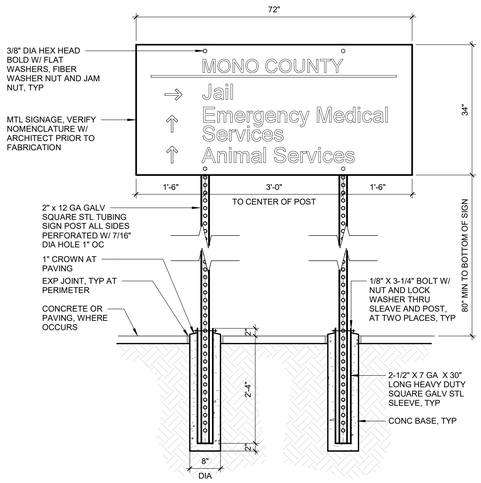
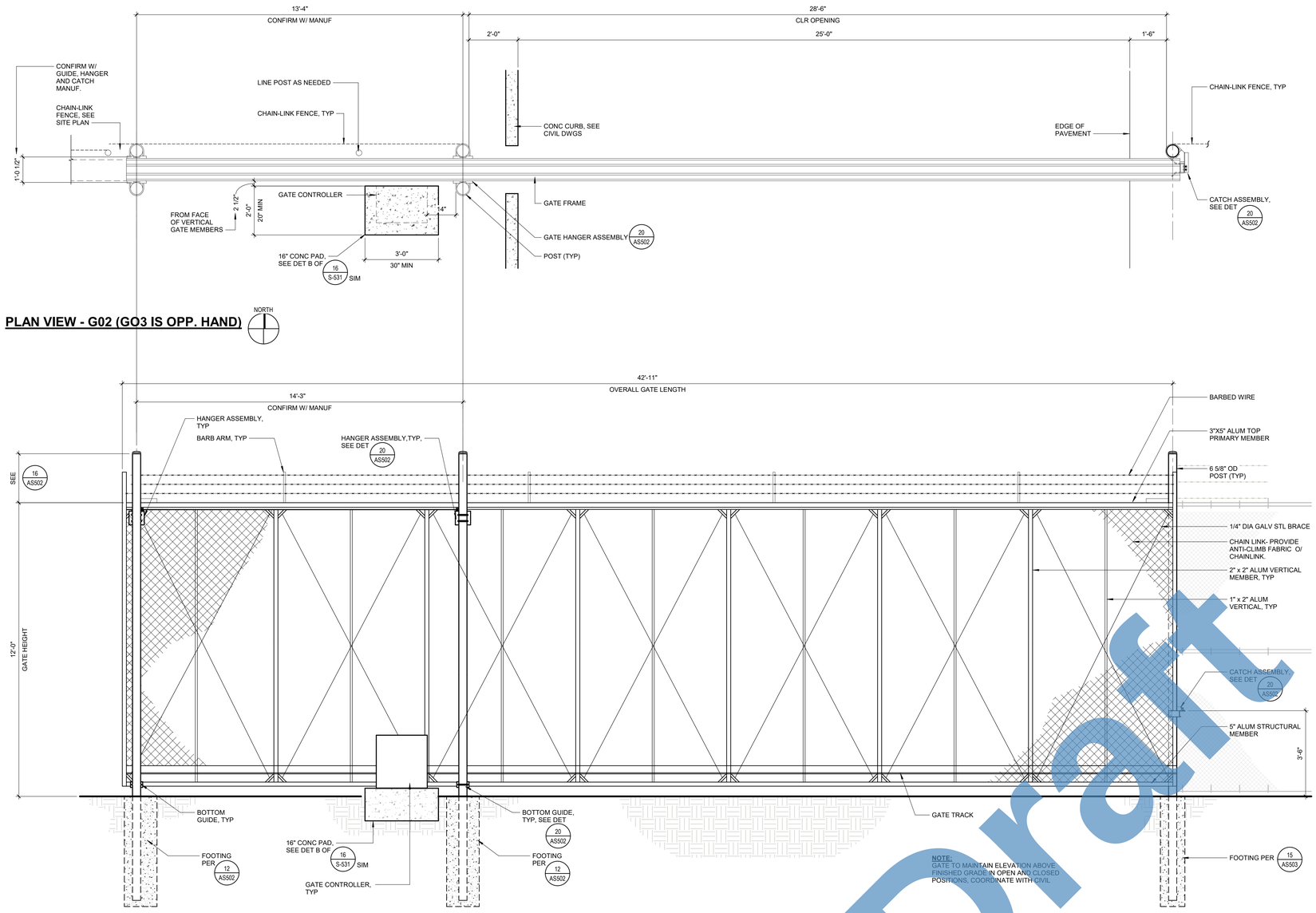


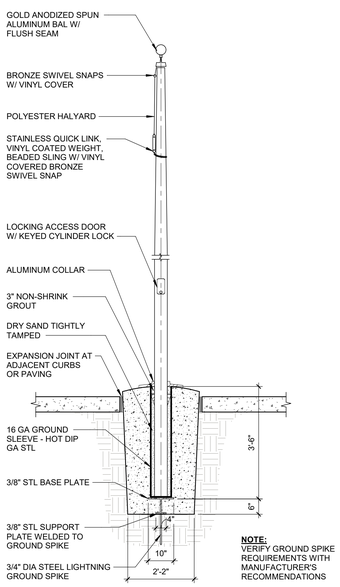
1 SITE - SIGNAGE
3/4" = 1'-0"



PLAN VIEW - G02 (GO3 IS OPP. HAND)

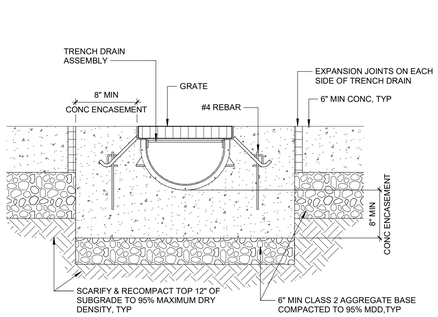
ELEVATION VIEW

7 CANTILEVER SLIDING GATE
1/2" = 1'-0"

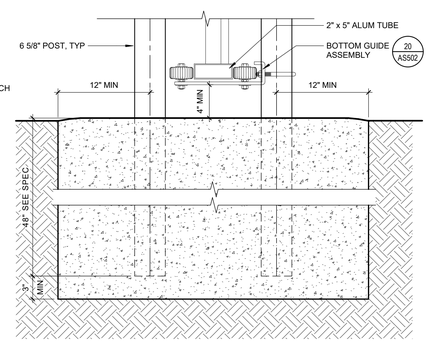


2 FLAG POLE
1/2" = 1'-0"

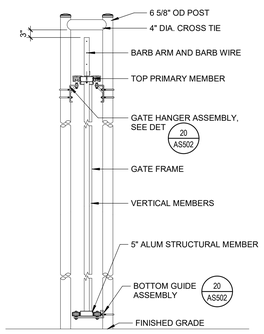
0500_1075_FLAGPOLE_01



3 TRENCH DRAIN AT VEHICLE SALLY
SCALE 1 1/2" = 1'-0"

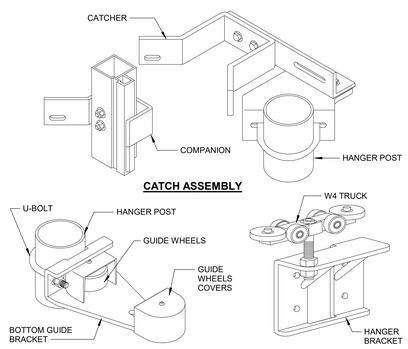


12 FOOTING @ CHAIN-LINK FENCE POST
1 1/2" = 1'-0"



AT CHAIN-LINK FENCE POST

16 CANTILEVER SLIDING GATE - SECTION
1/2" = 1'-0"



20 CANTILEVER SLIDING GATE - DETAILS
1/2" = 1'-0"

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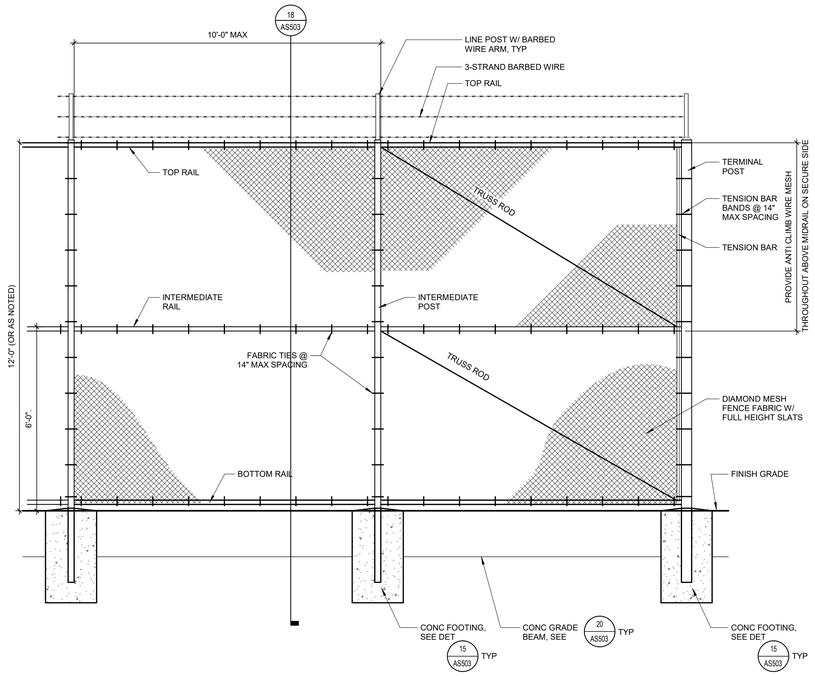
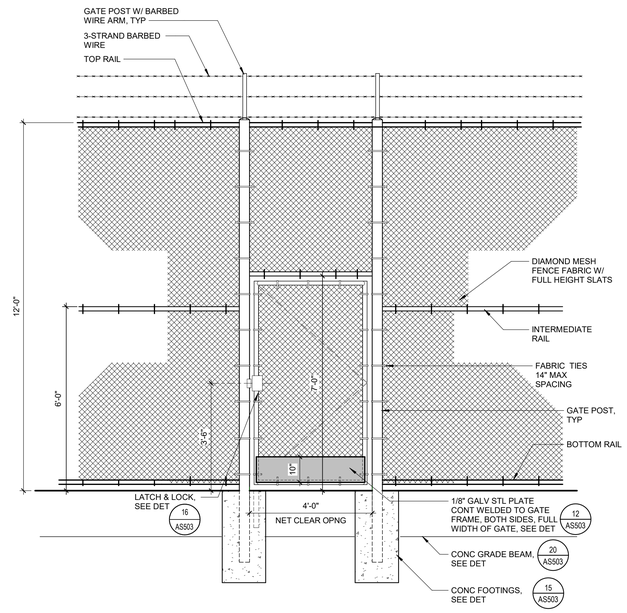


2 TYPICAL HIGH-SECURITY FENCE ELEVATION

1/2" = 1'-0"

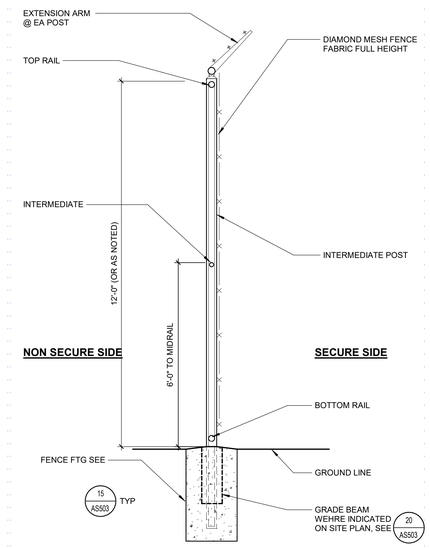
160901.Q1



10 SECURITY PEDESTRIAN GATE

1/2" = 1'-0"

SECURITY MAN GATE
190507. Q1

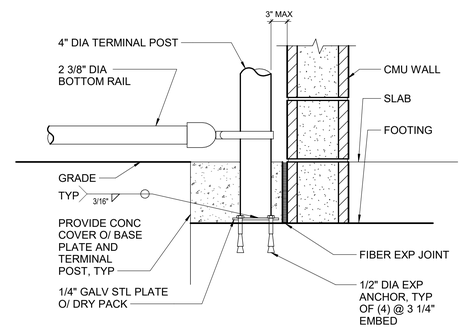


NOTE:
FOR FENCE POST NEAR BUILDING , SEE DET 3 AS503 19 AS503 AND 7 AS503

18 SECURITY FENCE SECTION

1/2" = 1'-0"

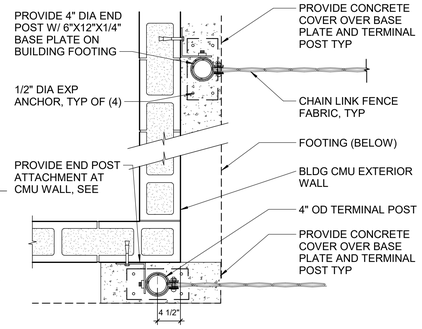
?DRS TRACKING NUMBER?
?YYMMDD?. Q1



3 TERMINAL POST @ CMU WALL

1 1/2" = 1'-0"

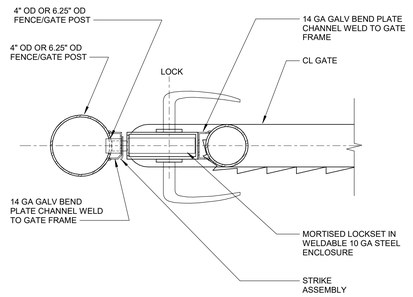
17/03/07.Q1



7 FENCE AT BUILDING

1" = 1'-0"

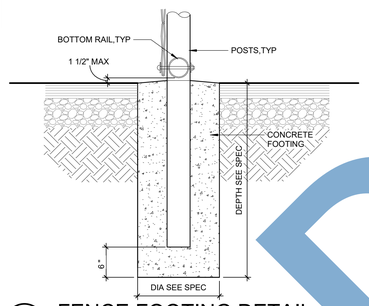
17/03/07.Q1



11 FENCE LOCK SECTION

3" = 1'-0"

08/22/2014.Q1



15 FENCE FOOTING DETAIL

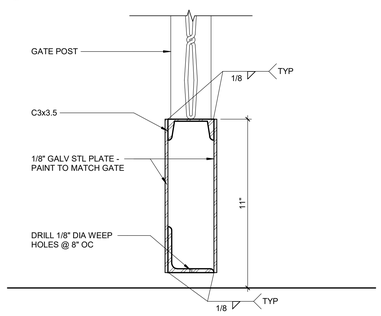
1" = 1'-0"

?DRS TRACKING NUMBER?
180810.Q1

19 FENCE ATTACHMENT @ CMU WALL

1 1/2" = 1'-0"

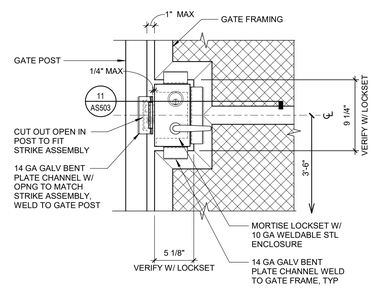
17/03/07.Q1



12 METAL GATE KICK PLATE

3" = 1'-0"

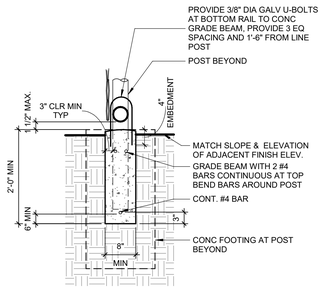
Q1



16 FENCE LOCK ELEVATION

1 1/2" = 1'-0"

180703.Q1



20 SECURITY FENCE AT GRADE BEAM

3/4" = 1'-0"

Q1

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C-27266
REN. 06-30-25
STATE OF CALIFORNIA

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BRIDGEPORT, CA 95317

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TITLE
SITE DETAILS

SHEET
AS503
V1

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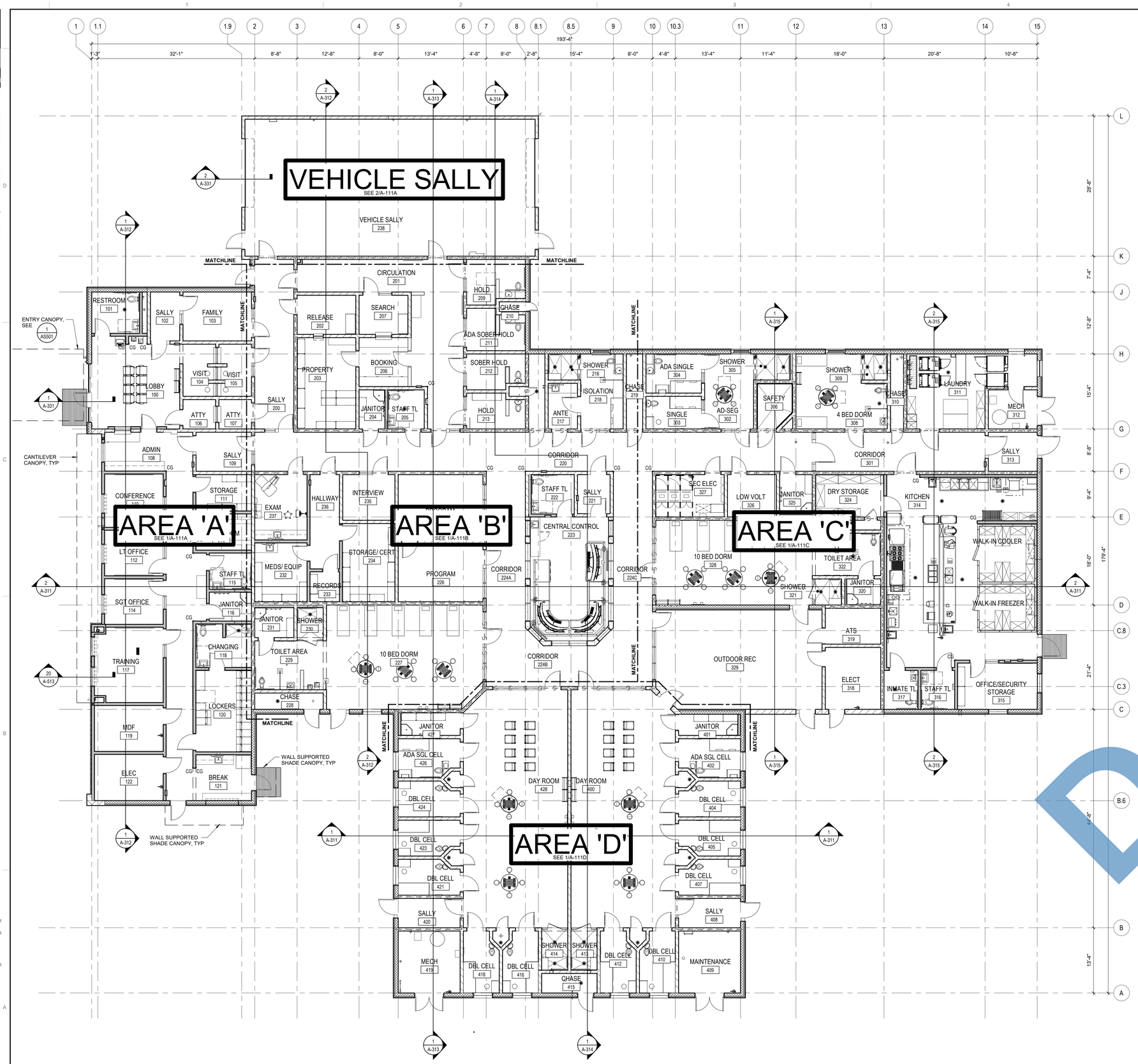


1 FLOOR PLAN - LEVEL 1 - FLOOR PLAN

SCALE 1/8" = 1'-0"

NORTH

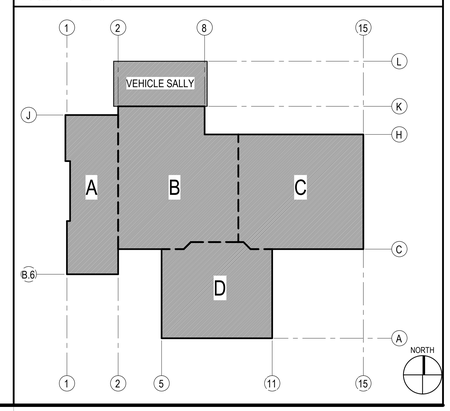
FLOOR PLAN GENERAL NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP
3. GRID LINES ARE LOCATED AT FACE OF CONCRETE/MASONRY AND FACE OF STUD, UON
4. AT METAL STUD WALLS, LOCATE DOOR JAMBS 4" AWAY FROM ADJACENT WALL, UON ALL DOORS LOCATED IN MASONRY ARE 8 INCHES FROM ADJACENT WALL OR SHOWN FLUSH WITH ADJACENT WALL, UON
5. SEE PARTITION TYPES AND SHEET A-531 FOR INTERIOR WALL TYPES. SEE EXTERIOR WALL SECTIONS FOR EXTERIOR WALL CONFIGURATION.
6. REFER TO STRUCTURAL DRAWINGS, DETAILS AND SCHEDULES FOR STRUCTURAL DIMENSIONS NOT SHOWN. BRING TO THE ATTENTION OF THE PROJECT ARCHITECT ANY DISCREPANCIES OR CONFLICTS.
7. SEE ENLARGED FLOOR PLANS, LARGE SCALE VIEW PLANS, FOR ADDITIONAL INFORMATION NOT SHOWN HERE.
8. FOR TOILET ACCESSORY MOUNTING HEIGHTS, SEE GA511.
9. FOR ROOM FINISH SCHEDULE SEE I-641. FOR FLOOR FINISH PLANS SEE I - SERIES DRAWINGS.
10. FOR DOOR TYPES, DOOR SCHEDULE SEE A-621.
11. FOR WINDOW TYPES AND WINDOW SCHEDULE SEE A-631.
12. FOR ACCESSORY, FURNISHING, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE SEE SHEET A-611.
13. FOR THE DESIGN, INSTALLATION AND CONSTRUCTION FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING, COLD-FORMED STEEL FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT SEE SHEETS A-533 AND A-534.
14. ALL JOINTS OR GAPS OF 1/32" OR GREATER IN CONSTRUCTION OR BETWEEN CONSTRUCTION AND EQUIPMENT SHALL BE FILLED WITH SEALANT. PROVIDE SECURITY SEALANT IN INMATE ACCESSIBLE AREAS.
15. WITHIN INMATE CELLS PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL FLOOR AND WALL MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES, EQUIPMENT, AND AROUND ALL DOORS AND WINDOWS.
16. ACTIVE LEAF IN DOUBLE DOORS IS INDICATED BY THE LETTER "A" WITHIN THE DOOR SWING.
17. ROOF DRAIN RAIN WATER LEADERS TO BE CENTERED IN WALLS WHERE OCCURS. WHERE ROOF DRAIN WATER LEADERS ARE SHOWN IN CORNERS OF ROOMS, MINIMIZE FURRING BY LOCATING RAIN WATER LEADERS, ADJACENT TO STRUCTURAL COLUMNS MAINTAIN 1" CLEAR FROM BASE PLATES, REFERENCE TO STRUCTURAL FOR TYP PIPE DETAILS AT SLABS, FOOTINGS AND WALLS.
18. PROVIDE AND INSTALL WALL, CORNER, AND EDGE GUARDS WHERE NOTED ON PLANS AND ELEVATIONS.
19. FOR DETENTION AND NON-DETENTION ACCESSORIES SEE THE INTERIOR ELEVATIONS AND LARGE SCALE VIEWS.
20. PROVIDE PRECISION CMU BLOCK ON INTERIOR FACE OF REC YARD WALLS UP TO SECURITY SCREEN. PROVIDE WATER REPELLENT COATING ON WALLS.
21. WATER REPELLENT COATING TO BE APPLIED TO ALL CMU SURFACES NOT LOCATED IN CONDITIONED SPACES AND NOT CONCEALED BY OTHER FINISHES OR MATERIALS.
22. AT SHOWERS WARP SLAB TO DRAIN AS SHOWN, 1/4" / 12" MAX.

SHEET LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPES AND REFER TO SHEET A-531
- 2 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DET 16 / A-522
- CG — CORNER GUARD, SEE DET 5 / A-522
- FEC — FIRE EXTINGUISHER CABINET - SEE DET 1 / GL501, 2 / GL501
- FEC(D) — FIRE EXTINGUISHER CABINET (DETENTION) - SEE DET 1 / GL501, 2 / GL501
- FE — FIRE EXTINGUISHER
- FLOOR DRAIN, SEE PLUMBING DRAWINGS
- WC# — WC# REFERS TO WINDOW COVERING, SEE EQUIPMENT SCHED ON SHEET A-611. FOR FINISHES, SEE INTERIORS FINISH SCHED

KEY PLAN



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TITLE
FLOOR PLAN - LEVEL 1 - OVERALL

SHEET
A-111

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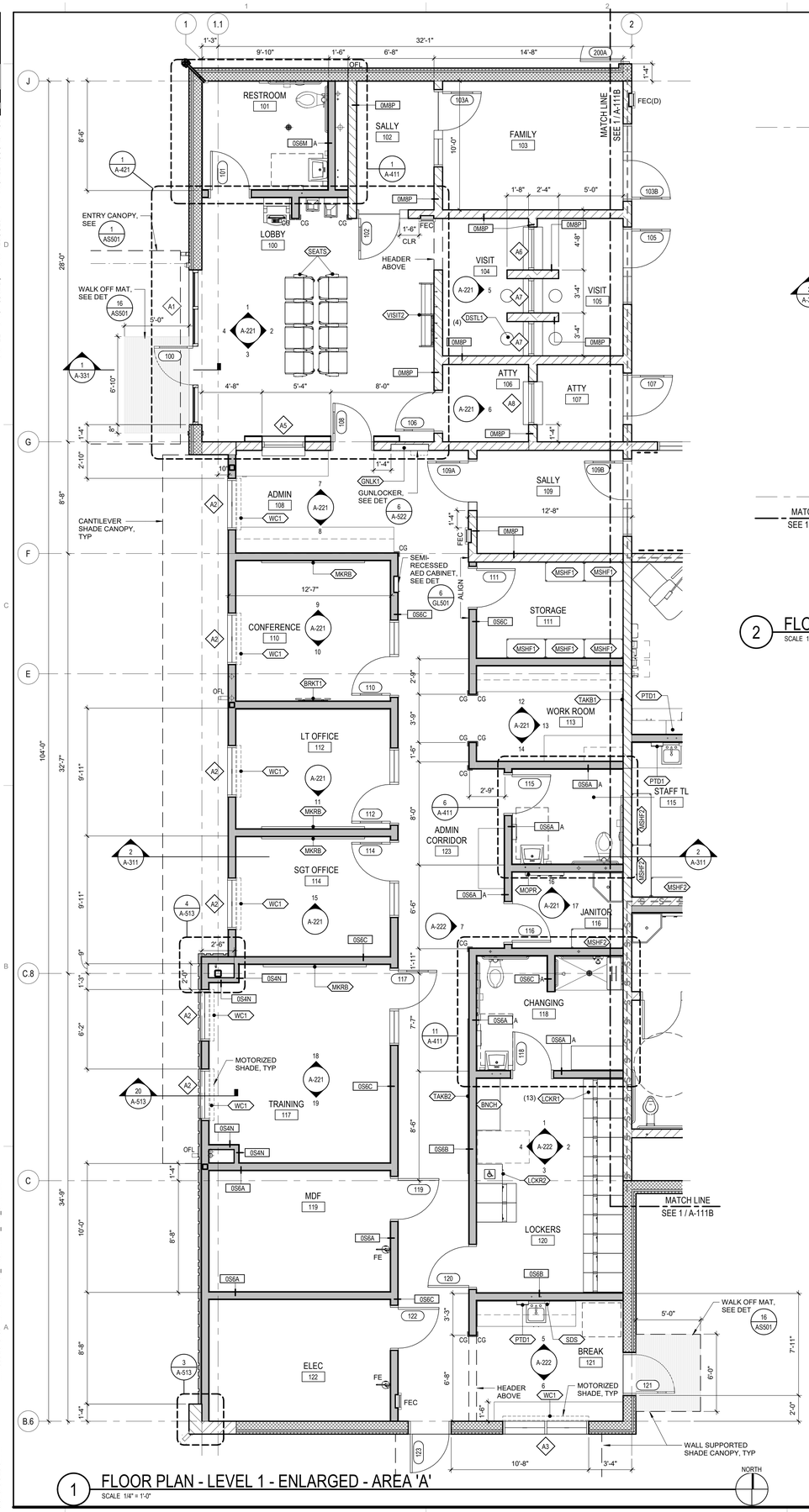
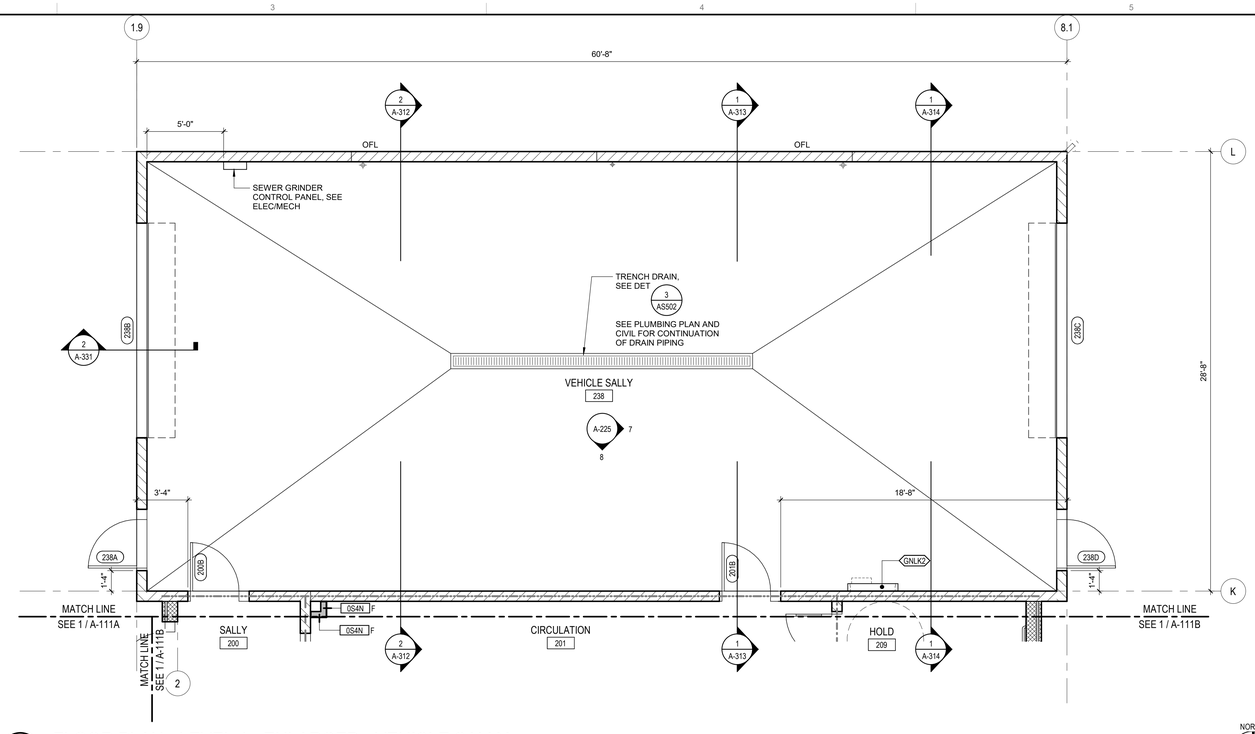


1 FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SCALE 1/4" = 1'-0"



2 FLOOR PLAN - LEVEL 1 - ENLARGED - VEHICLE SALLY

SCALE 1/4" = 1'-0"

NORTH

FLOOR PLAN GENERAL NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON EXCEPTION; CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP.
3. GRID LINES ARE LOCATED AT FACE OF CONCRETE/MASONRY AND FACE OF STUD, UON
4. AT METAL STUD WALLS, LOCATE DOOR JAMBS 4" AWAY FROM ADJACENT WALL, UON ALL DOORS LOCATED IN MASONRY ARE 8 INCHES FROM ADJACENT WALL OR SHOWN FLUSH WITH ADJACENT WALL, UON.
5. SEE PARTITION TYPES AND SHEET A-531 FOR INTERIOR WALL TYPES. SEE EXTERIOR WALL SECTIONS FOR EXTERIOR WALL CONFIGURATION.
6. REFER TO STRUCTURAL DRAWINGS, DETAILS AND SCHEDULES FOR STRUCTURAL DIMENSIONS NOT SHOWN. BRING TO THE ATTENTION OF THE PROJECT ARCHITECT ANY DISCREPANCIES OR CONFLICTS.
7. SEE ENLARGED FLOOR PLANS, LARGE SCALE VIEW PLANS FOR ADDITIONAL INFORMATION NOT SHOWN HERE.
8. FOR TOILET ACCESSORY MOUNTING HEIGHTS, SEE GA511.
9. FOR ROOM FINISH SCHEDULE SEE I-641. FOR FLOOR FINISH PLANS SEE I - SERIES DRAWINGS.
10. FOR DOOR TYPES, DOOR SCHEDULE SEE A-621.
11. FOR WINDOW TYPES AND WINDOW SCHEDULE SEE A-631.
12. FOR ACCESSORY, FURNISHING, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE SEE SHEET A-611.
13. FOR THE DESIGN, INSTALLATION AND CONSTRUCTION FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING, COLD-FORMED STEEL FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT SEE SHEETS A-533 AND A-534.
14. ALL JOINTS OR GAPS OF 1/32" OR GREATER IN CONSTRUCTION OR BETWEEN CONSTRUCTION AND EQUIPMENT SHALL BE FILLED WITH SEALANT. PROVIDE SECURITY SEALANT IN INMATE ACCESSIBLE AREAS.
15. WITHIN INMATE CELLS PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL FLOOR AND WALL MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES, EQUIPMENT, AND AROUND ALL DOORS AND WINDOWS.
16. ACTIVE LEAF IN DOUBLE DOORS IS INDICATED BY THE LETTER "A" WITHIN THE DOOR SWING.
17. ROOF DRAIN RAIN WATER LEADERS TO BE CENTERED IN WALLS WHERE OCCURS. WHERE ROOF DRAIN WATER LEADERS ARE SHOWN IN CORNERS OF ROOMS, MINIMIZE FURRING BY LOCATING RAIN WATER LEADERS, ADJACENT TO STRUCTURAL COLUMNS MAINTAIN 3" CLEAR FROM BASE PLATES. REFERENCE TO STRUCTURAL FOR TYP PIPE DETAILS AT SLABS, FOOTINGS AND WALLS.
18. PROVIDE AND INSTALL WALL, CORNER, AND EDGE GUARDS WHERE NOTED ON PLANS AND ELEVATIONS.
19. FOR DETENTION AND NON-DETENTION ACCESSORIES SEE THE INTERIOR ELEVATIONS AND LARGE SCALE VIEWS.
20. PROVIDE PRECISION CMU BLOCK ON INTERIOR FACE OF REC YARD WALLS UP TO SECURITY SCREEN, PROVIDE WATER REPELLENT COATING ON WALLS.
21. WATER REPELLENT COATING TO BE APPLIED TO ALL CMU SURFACES NOT LOCATED IN CONDITIONED SPACES AND NOT CONCEALED BY OTHER FINISHES OR MATERIALS.
22. AT SHOWERS WARP SLAB TO DRAIN AS SHOWN, 1/4" / 12" MAX.

SHEET LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
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- FEC — FIRE EXTINGUISHER CABINET - SEE DET 1 / GL501, 2 / GL501
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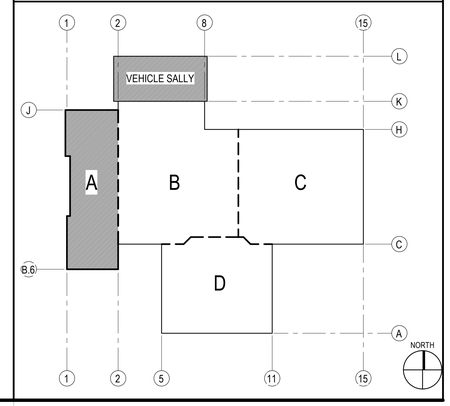
- WC# — WC# REFERS TO WINDOW COVERING, SEE EQUIPMENT SCHED ON SHEET A-611. FOR FINISHES, SEE INTERIORS FINISH SCHED

KEY PLAN



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AGENCY

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CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SHEET
A-111A

V1

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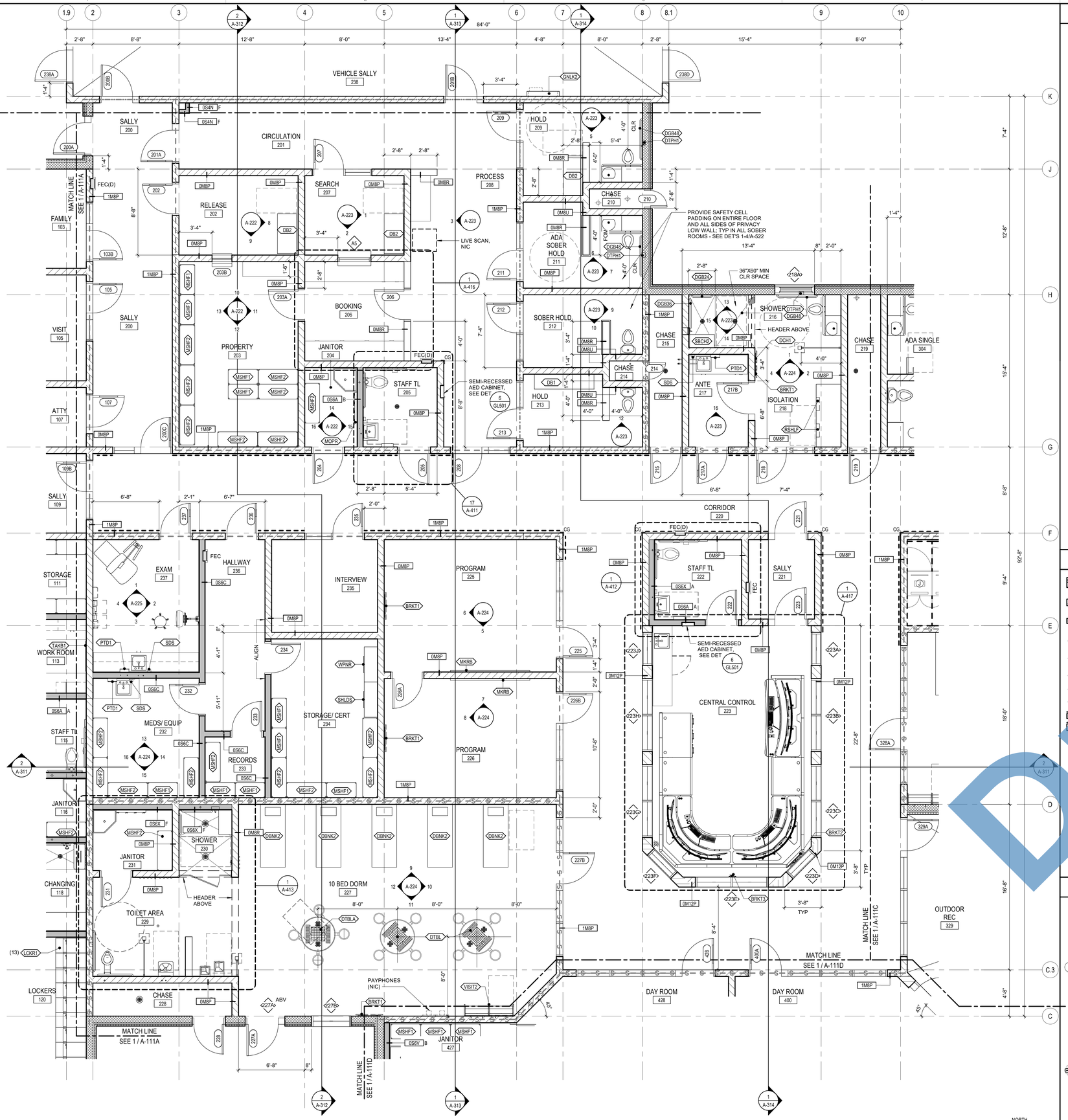

1 FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'B'

SCALE 1/4" = 1'-0"

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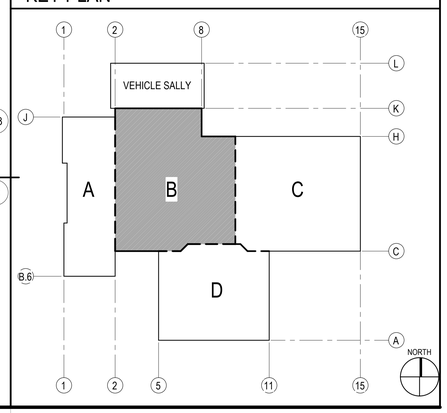
- WC# — WC# REFERS TO WINDOW COVERING, SEE EQUIPMENT SCHED ON SHEET A-611. FOR FINISHES, SEE INTERIORS FINISH SCHED

KEY PLAN



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LICENSED ARCHITECT
RICHARD J. DAVIS
C 27266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
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P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'B'

SHEET
A-111B

V1

Draft

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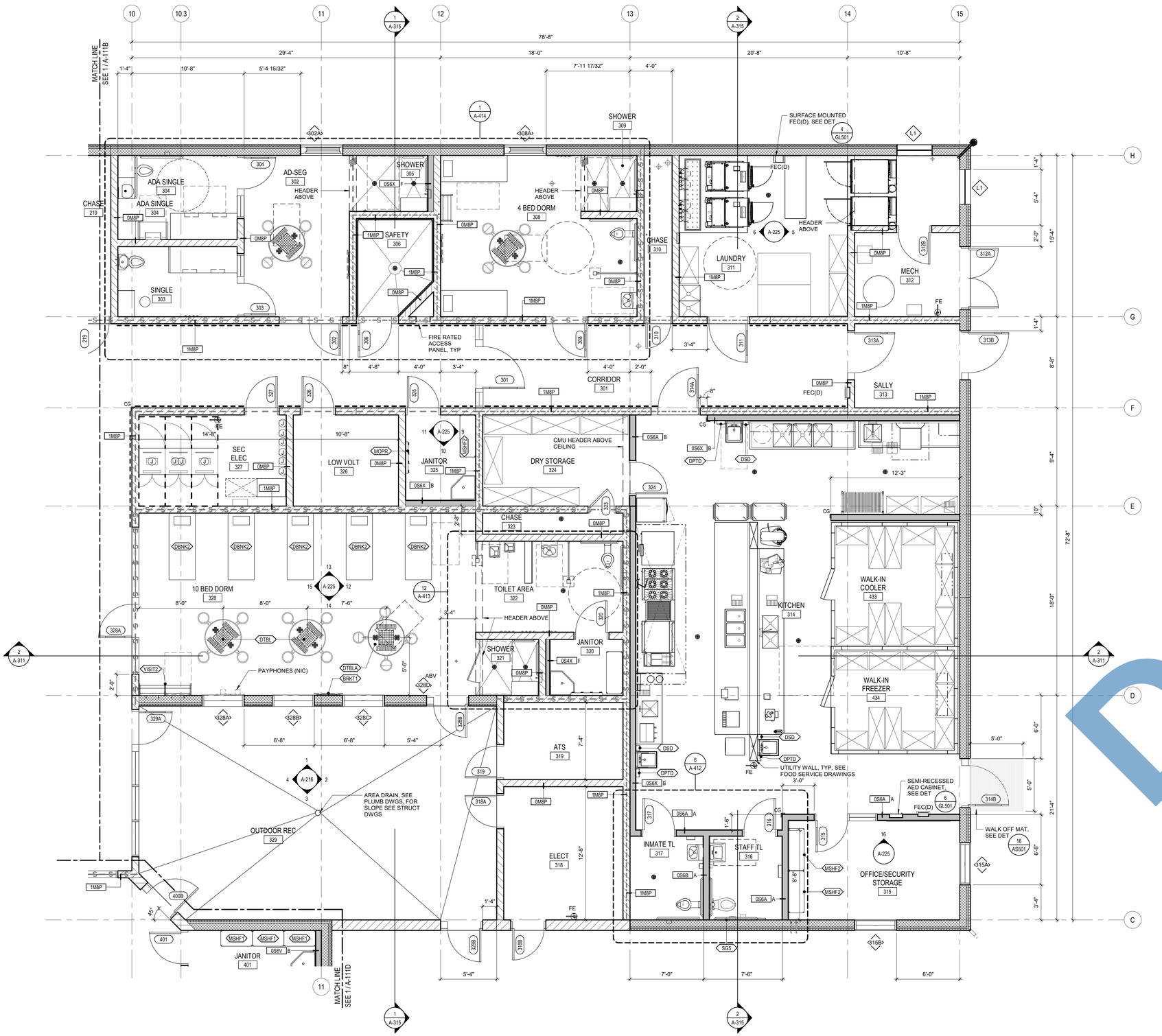

1 FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'C'

SCALE 1/4" = 1'-0"

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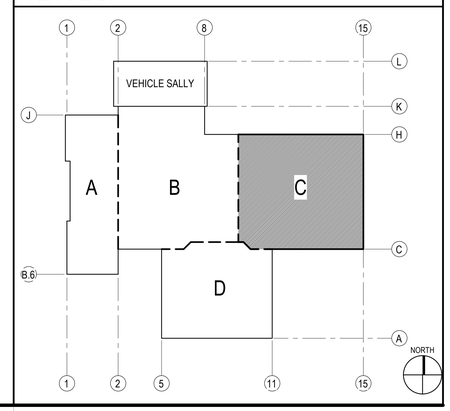
KEY PLAN



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TITLE
FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'C'

SHEET
A-111C

V1

Draft

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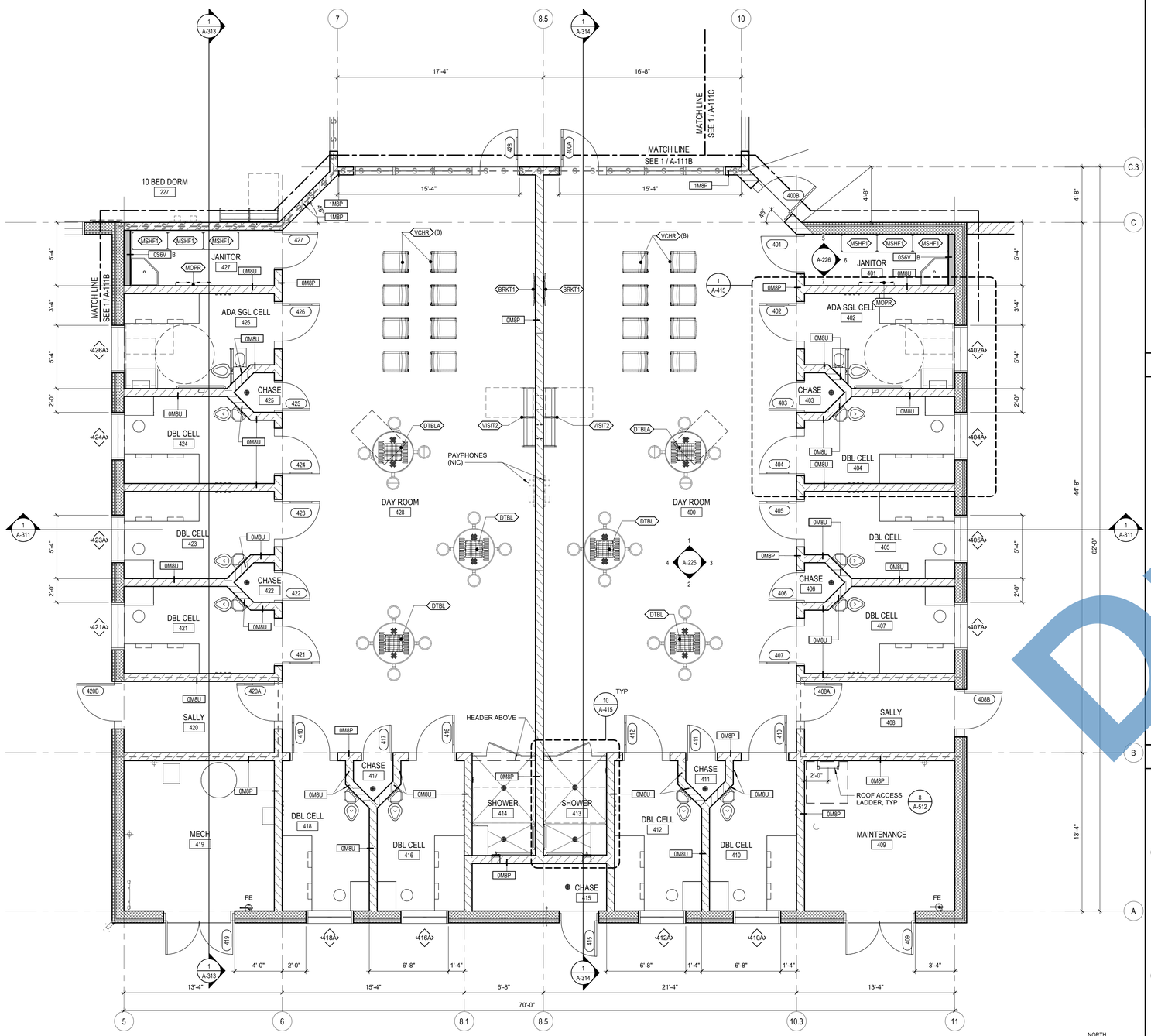

1 FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'D'

SCALE 1/4" = 1'-0"

NORTH

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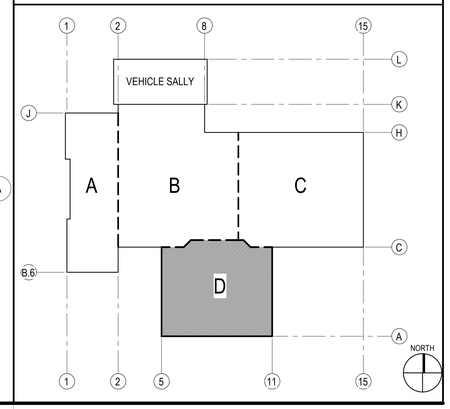

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C 27266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE
FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'D'

SHEET
A-111D

V1

Draft

BIM 360:/018133_Mono Jail/018133_ARCHMSTR_R20_CENTRAL.rvt

9/8/2023 8:49:07 PM

1 CEILING PLAN - LEVEL 1 - OVERALL

SCALE 1/8" = 1'-0"

NORTH

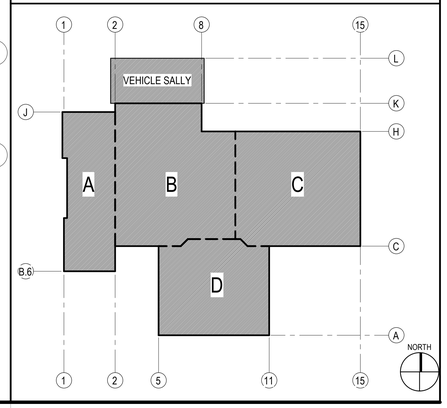
CEILING GENERAL NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS UON EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP
3. PROVIDE ACCESS DOORS AND EXTENSION RODS WHERE INDICATED ON THESE PLANS AND WHERE REQUIRED FOR MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, LOW VOLTAGE (TELE/DATA AND SECURITY DEVICES).
4. CEILING ACCESS DOORS SHALL BE 24" X 24" MINIMUM AND 24" X 48" MAXIMUM UON WHERE AREAS ABOVE CEILING ARE OTHERWISE INACCESSIBLE, AT LEAST ONE ACCESS DOOR SHALL BE 24" X 24" MINIMUM. CEILING ACCESS DOOR FOR ATTIC ACCESS SHALL BE 30" X 24" AND LOCATIONS AS INDICATED ON DRAWINGS. CEILING ACCESS DOOR FOR FIRE/SMOKE DAMPER, CABLE TRAY SHALL BE 24" X 24". INMATE ACCESSIBLE AREA SHALL RECEIVE LOCKABLE SECURITY ACCESS DOOR. PROVIDE STAINLESS STEEL ACCESS DOOR IN WET AREAS. SEE DETAILS 13 & 14/A-553 FOR CEILING ACCESS DOORS IN GYP BOARD CEILING. CEILING ACCESS DOORS ARE NOT REQUIRED IN ROOMS WITH SUSPENDED ACOUSTICAL CEILING.
5. LOCATIONS OF CEILING INSTALLED ITEMS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC. THIS DRAWING TAKES PRECEDENCE FOR LOCATIONS OF THOSE ITEMS SHOWN AND MUST BE COORDINATED WITH THOSE ITEMS NOT SHOWN.
6. ALL CEILING INSTALLED ITEMS ARE NOT NECESSARILY SHOWN ON THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR MUST COORDINATE WITH ALL TRADES FOR EXACT QUANTITY AND LOCATION.
7. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING FIXTURE TYPES AND DEVICES. A LIGHT FIXTURE OR A GROUPING OF LIGHT FIXTURES SHALL BE CENTERED IN THE ROOM UON.
8. REFER TO MECHANICAL DRAWINGS FOR DIFFUSERS AND ITEMS NOT SHOWN ON ARCHITECTURAL CEILING PLANS.
9. ALL ITEMS INSTALLED IN ACOUSTICAL CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE TILE. IF MORE THAN ONE ITEM FALLS WITHIN A TILE THE ITEM SHALL BE LOCATED WITHIN THE QUARTER POINT OF THE TILE. A TILE SHALL BE LIMITED TO THREE ITEMS.
10. WITHIN INMATE DORMS PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL CEILING MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. SECURITY SEALANT SHALL ALSO BE PROVIDED AT THE GAP BETWEEN THE FACE OF HOODS AND THE CEILING.
11. ALL LIGHT FIXTURES NOT IN A SUSPENDED CEILING SHALL BE CENTERED IN ROOM OR SPACE, UON.
12. SEE SHEET I-641 FOR WINDOW COVERINGS LEGEND AND NOTES.

CEILING PLAN LEGEND

- 5/8" GYPSUM BOARD O/ MTL STUDS (NON-RATED ACCESS DOORS, MOISTURE RESISTANT GYP BD AT ALL WET AREAS), SEE DET — 8/A-534 AND 6/A-553
- 5/8" HIGH-IMPACT RESISTANT GYP BD O/ SECURITY LATH O/ MTL STUD CEILING FRAMING (MEDIUM-SECURITY ACCESS DOORS, HI-IMPACT MOISTURE RESISTANT GYP BD AT ALL WET AREAS), SEE DET — 8/A-534 AND 9/A-553
- HIGH IMPACT MOISTURE RESISTANT GYP BD W/ VENEER PLASTER COATING O/ SECURITY LATH CEILING, SEE DET — 8/A-534 AND 17/A-553
- **CL1:** SUSPENDED LINEAR WOOD CEILING SYSTEM, SEE DET — 14/A-554
- **CL2:** 12" x 12" GLUE-ON ACOUSTICAL TILE O/ 5/8" HIGH IMPACT GYP BD ON MTL STUD (MEDIUM-SECURITY ACCESS DOORS), SEE DET — 8/A-534 AND 9/A-553
- **CL3:** 2' X 4' ACOUSTICAL CEILING TILE, SEE DET — 12/A-551
- **CL4:** 18" WIDE SECURITY METAL PLANK CEILING SYSTEM, SEE DET — 7/A-553
- **CL5:** 2' X 4' ACOUSTICAL CEILING TILE, SEE DET — 12/A-551
- **CL6:** 2'X4' IMPACT RESISTANT ACOUSTICAL TILE W/ RETENTION CLIPS, SEE DET — 12/A-551 AND 13/A-551
- SECURITY MESH SCREEN O/ WOVEN SECURITY MESH, SEE DET — 12/A-553 AND 16/A-553
- CONCRETE FILLED FLAT BOTTOM STRUCTURAL METAL DECK SECURITY SEALANT AT ALL EXPOSED JOINTS/SEAMS AND PAINT PER ROOM FINISH SCHED
- 8'-0" — CEILING TAG (HEIGHT ABOVE FINISHED FLOOR)
- OPEN — OPEN TO ABOVE
- ROOF ACCESS HATCH
- CEILING ACCESS DOOR, SIZE VARIES, SEE NOTES #4 ABOVE
- EXIT — CEILING OR WALL MOUNTED EXIT LIGHT/SIGNS WITH DIRECTIONAL ARROWS WHERE SHOWN, SEE ELEC DRAWINGS FOR ADDITIONAL INFORMATION
- SKYLIGHT
- WC# — WC# REFERS TO WINDOW COVERING, SEE EQUIPMENT SCHED. FOR FINISHES, SEE INTERIORS FINISH SCHED
- MECHANICAL FIXTURES, SEE MECHANICAL DRAWINGS
- LIGHT FIXTURES, SEE ELEC DRAWINGS
- CEILING ACCESS DOOR, SIZE VARIES, SEE GENERAL NOTES
- EXIT — ELECTRONIC SECURITY DEVICES, SEE TY DRAWINGS

KEY PLAN



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GOVMOTUS No:22-N-3854-CP-DR

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CONSULTANT

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CEILING PLAN - LEVEL 1 - OVERALL

SHEET
A-121

V1

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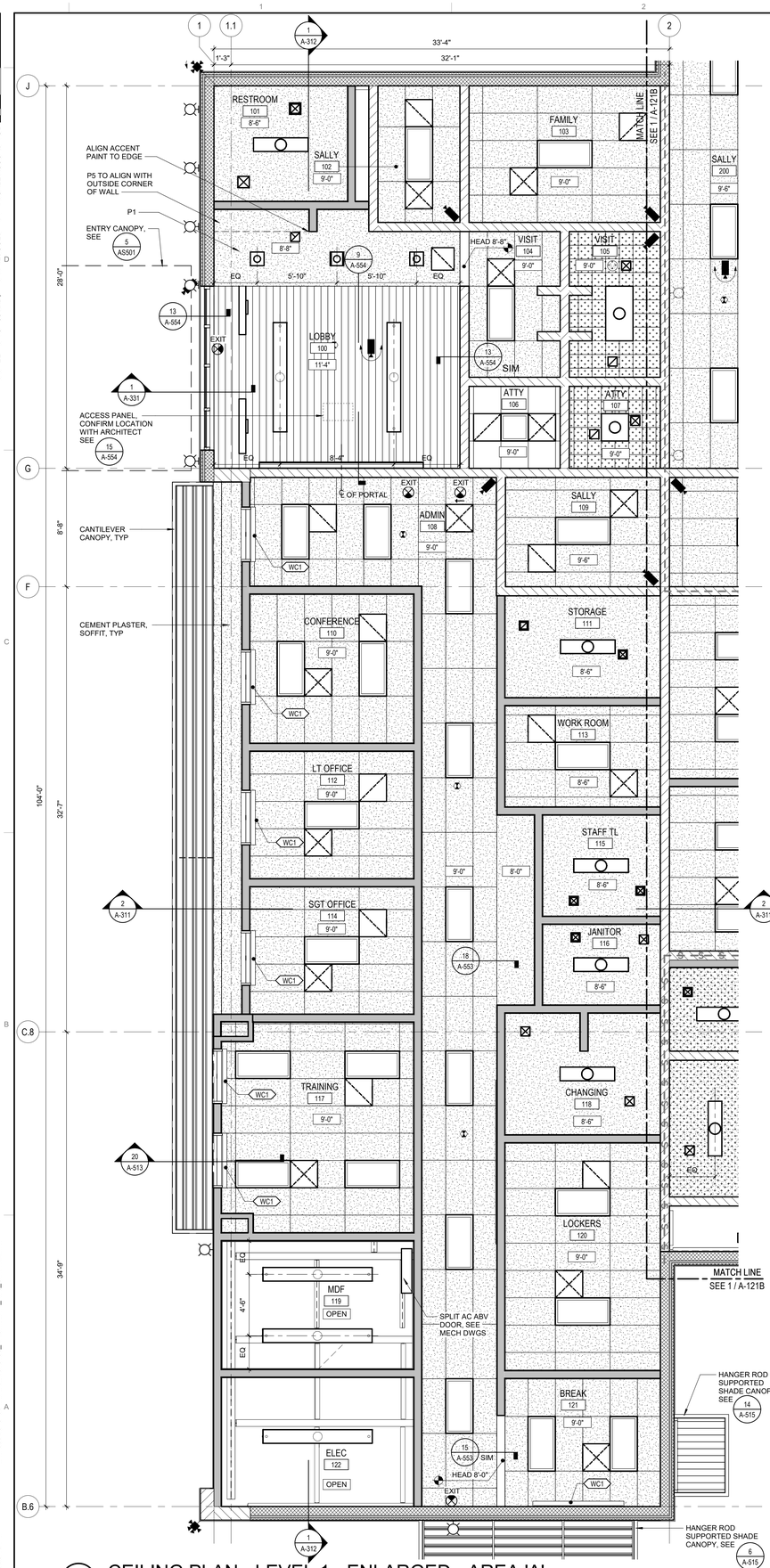
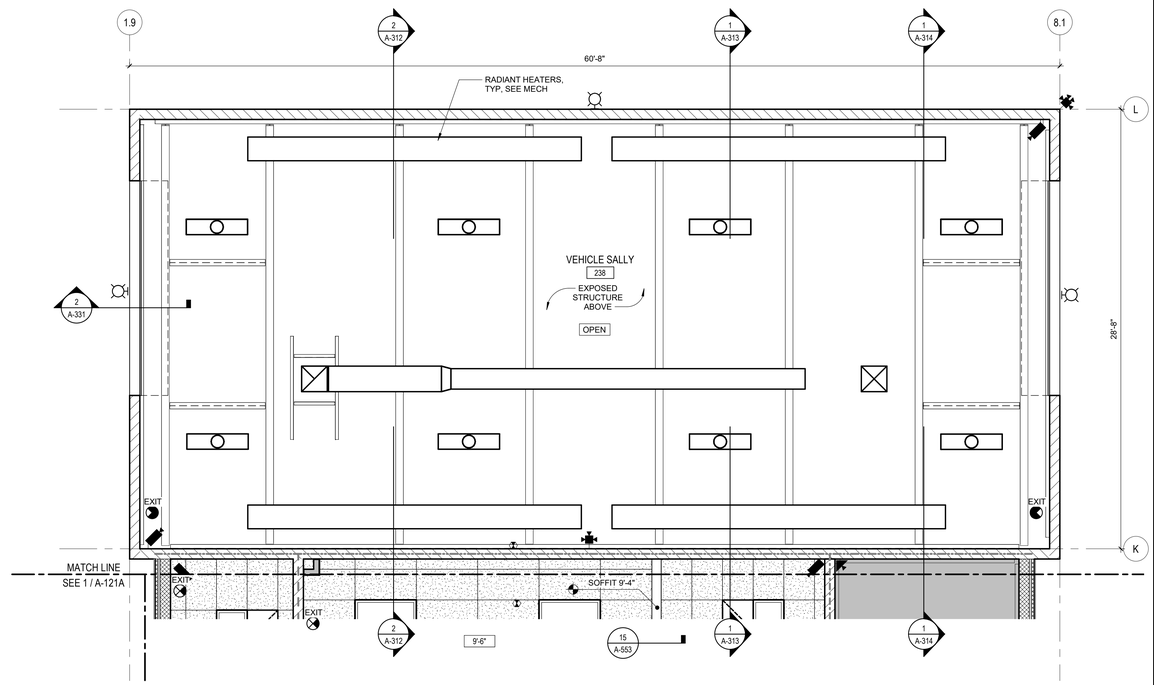


1 CEILING PLAN - LEVEL 1 - ENLARGED - AREA 'A'

1/4" = 1'-0"



2 CEILING PLAN - LEVEL 1 - ENLARGED - VEHICLE SALLY

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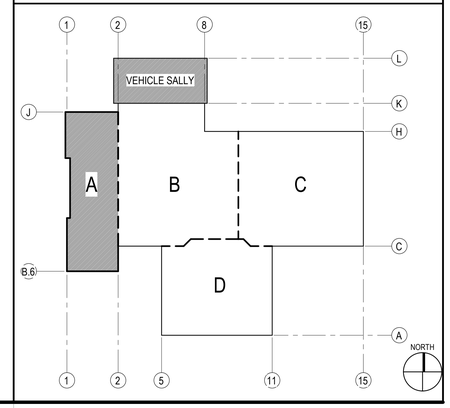
KEY PLAN



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CEILING PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SHEET
A-121A

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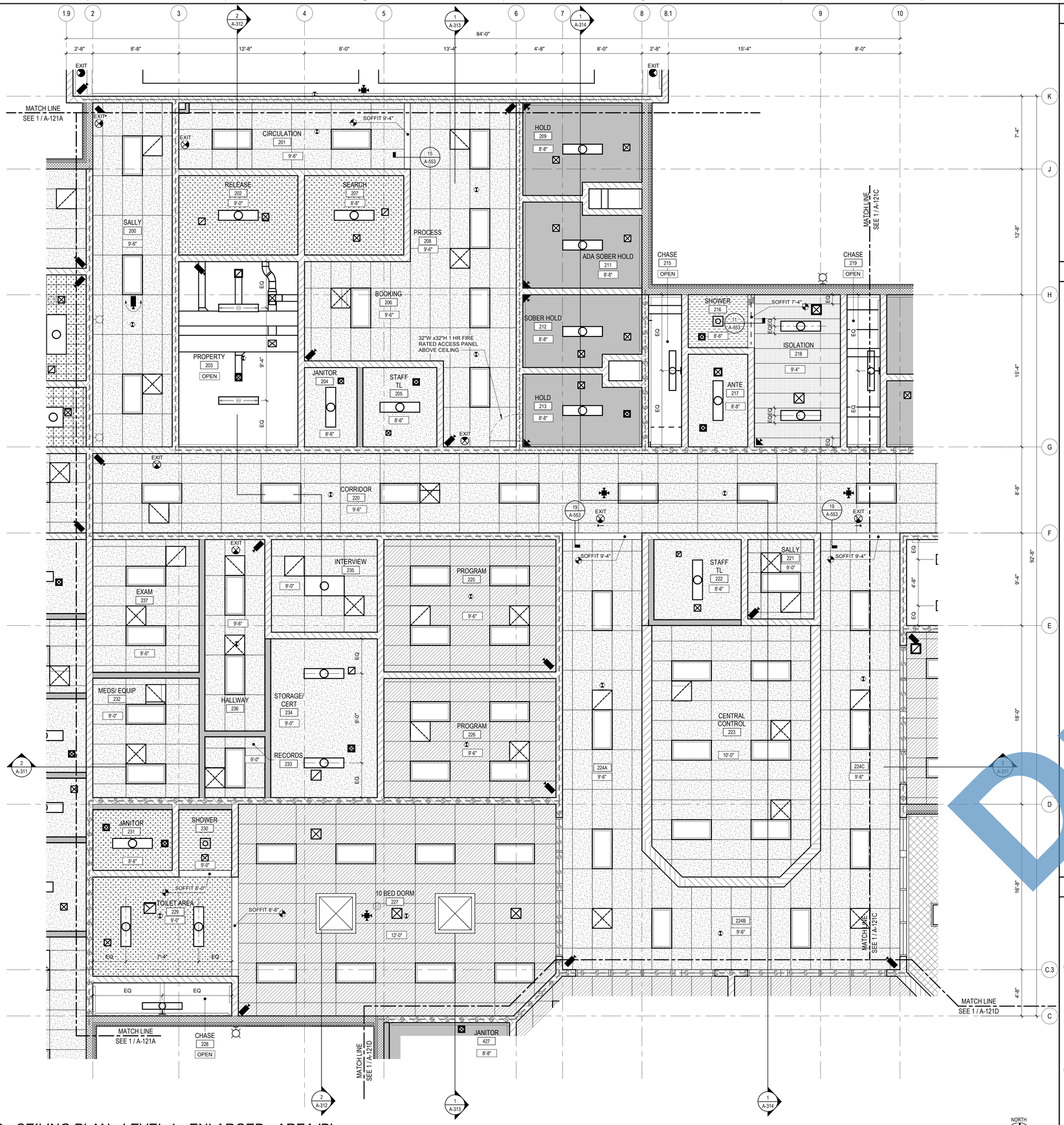

1 CEILING PLAN - LEVEL 1 - ENLARGED - AREA 'B'

1/4" = 1'-0"

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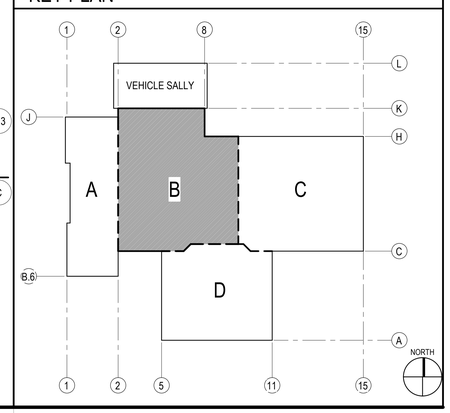
KEY PLAN



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SHEET
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SCALE 1/4" = 1'-0"

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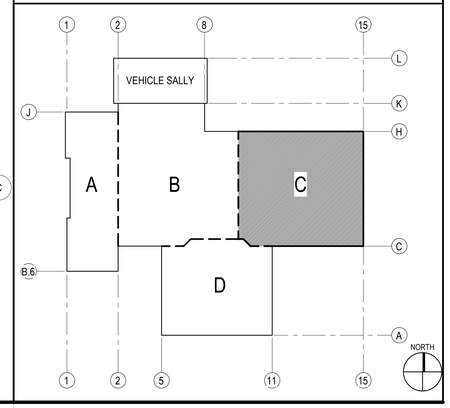
CEILING PLAN LEGEND

- 5/8" GYPSUM BOARD O/ MTL STUDS (NON-RATED ACCESS DOORS, MOISTURE RESISTANT GYP BD AT ALL WET AREAS), SEE DET — 8/A-534 AND 6/A-553
- 5/8" HIGH-IMPACT RESISTANT GYP BD O/ SECURITY LATH O/ MTL STUD CEILING FRAMING (MEDIUM-SECURITY ACCESS DOORS, HI-IMPACT MOISTURE RESISTANT GYP BD AT ALL WET AREAS), SEE DET — 8/A-534 AND 9/A-553
- HIGH IMPACT MOISTURE RESISTANT GYP BD W/ VENEER PLASTER COATING O/ SECURITY LATH CEILING, SEE DET — 8/A-534 AND 17/A-553
- **CL1:** SUSPENDED LINEAR WOOD CEILING SYSTEM, SEE DET — 14/A-554
- **CL2:** 12" x 12" GLUE-ON ACOUSTICAL TILE O/ 5/8" HIGH IMPACT GYP BD ON MTL STUD (MEDIUM-SECURITY ACCESS DOORS), SEE DET — 8/A-534 AND 9/A-553
- **CL3:** 2' X 4' ACOUSTICAL CEILING TILE, SEE DET — 12/A-551
- **CL4:** 18" WIDE SECURITY METAL PLANK CEILING SYSTEM, SEE DET — 7/A-553
- **CL5:** 2' X 4' ACOUSTICAL CEILING TILE, SEE DET — 12/A-551
- **CL6:** 2'X4' IMPACT RESISTANT ACOUSTICAL TILE W/ RETENTION CLIPS, SEE DET — 12/A-551 AND 13/A-551
- SECURITY MESH SCREEN O/ WOVEN SECURITY MESH, SEE DET — 15/A-553 AND 16/A-553
- CONCRETE FILLED FLAT BOTTOM STRUCTURAL METAL DECK SECURITY SEALANT AT ALL EXPOSED JOINTS/SEAMS AND PAINT PER ROOM FINISH SCHED
- 8'-0" CEILING TAG (HEIGHT ABOVE FINISHED FLOOR)
- OPEN OPEN TO ABOVE
- ROOF ACCESS HATCH
- CEILING ACCESS DOOR, SIZE VARIES, SEE NOTES #4 ABOVE
- LIGHT FIXTURES, SEE ELEC DRAWINGS
- EXIT CEILING OR WALL MOUNTED EXIT LIGHT/SIGNS WITH DIRECTIONAL ARROWS WHERE SHOWN, SEE ELEC DRAWINGS FOR ADDITIONAL INFORMATION
- SKYLIGHT
- WC# WC# REFERS TO WINDOW COVERING, SEE EQUIPMENT SCHED. FOR FINISHES, SEE INTERIORS FINISH SCHED
- MECHANICAL FIXTURES, SEE MECHANICAL DRAWINGS
- CEILING ACCESS DOOR, SIZE VARIES, SEE GENERAL NOTES
- M ELECTRONIC SECURITY DEVICES, SEE TY DRAWINGS

KEY PLAN



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LICENSED ARCHITECT RICHARD J. DAVIS C 27266 REN. 06-30-25 STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
CEILING PLAN - LEVEL 1 - ENLARGED - AREA 'C'

SHEET
A-121C

V1

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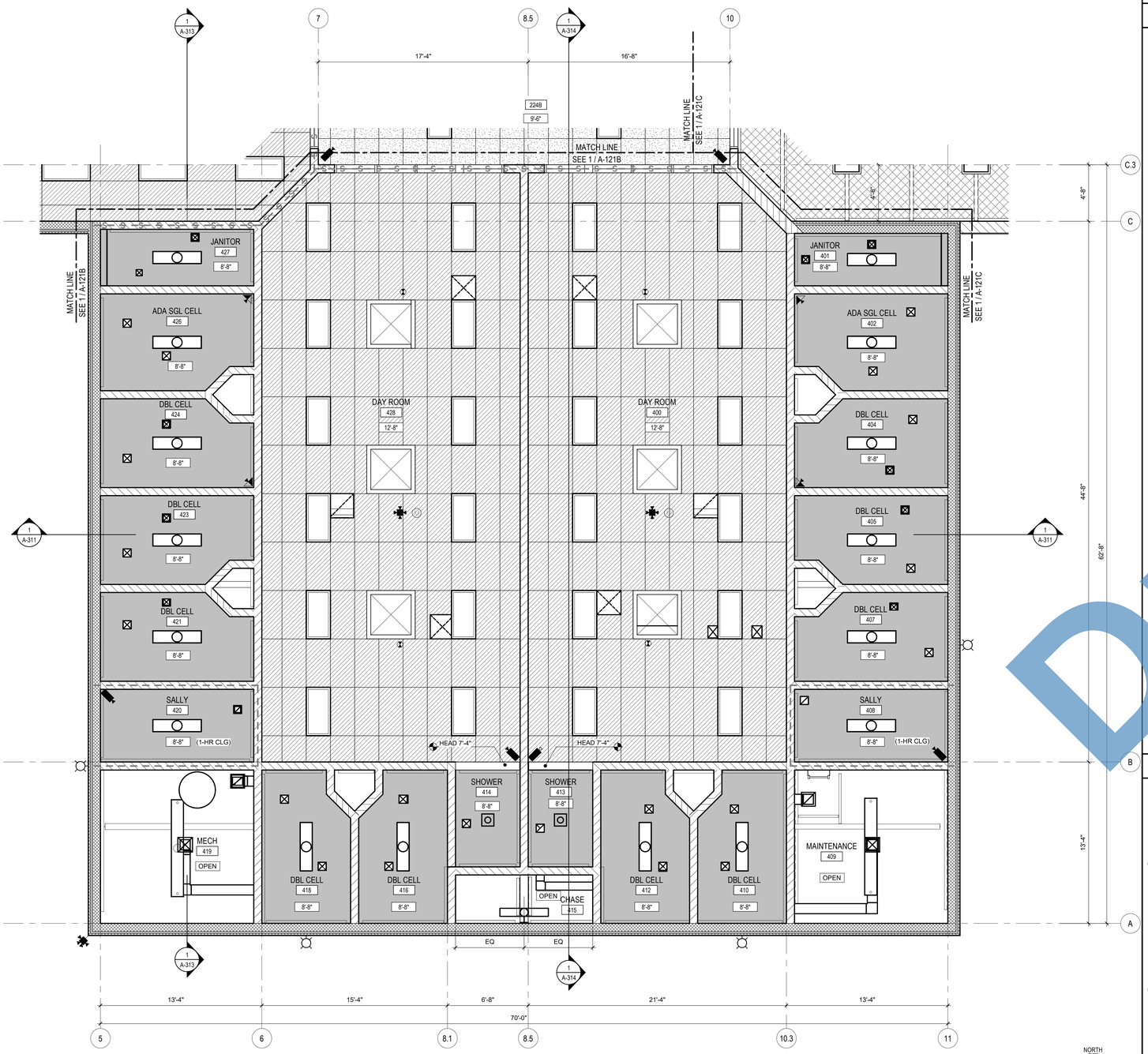


1 CEILING PLAN - LEVEL 1 - ENLARGED - AREA 'D'

SCALE 1/4" = 1'-0"

NORTH

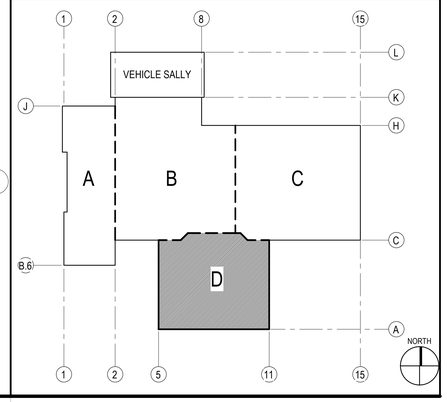
CEILING GENERAL NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS UON EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP
3. PROVIDE ACCESS DOORS AND EXTENSION RODS WHERE INDICATED ON THESE PLANS AND WHERE REQUIRED FOR MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, LOW VOLTAGE (TELE/DATA AND SECURITY DEVICES).
4. CEILING ACCESS DOORS SHALL BE 24" X 24" MINIMUM AND 24" X 48" MAXIMUM UON WHERE AREAS ABOVE CEILING ARE OTHERWISE INACCESSIBLE, AT LEAST ONE ACCESS DOOR SHALL BE 24" X 24" MINIMUM. CEILING ACCESS DOOR FOR ATTIC ACCESS SHALL BE 30" X 24" AND LOCATIONS AS INDICATED ON DRAWINGS. CEILING ACCESS DOOR FOR FIRE/SMOKE DAMPER, CABLE TRAY SHALL BE 24" X 24". INMATE ACCESSIBLE AREA SHALL RECEIVE LOCKABLE SECURITY ACCESS DOOR. PROVIDE STAINLESS STEEL ACCESS DOOR IN WET AREAS. SEE DETAILS 13 & 14/A-553 FOR CEILING ACCESS DOORS IN GYP BOARD CEILING. CEILING ACCESS DOORS ARE NOT REQUIRED IN ROOMS WITH SUSPENDED ACOUSTICAL CEILING.
5. LOCATIONS OF CEILING INSTALLED ITEMS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC. THIS DRAWING TAKES PRECEDENCE FOR LOCATIONS OF THOSE ITEMS SHOWN AND MUST BE COORDINATED WITH THOSE ITEMS NOT SHOWN.
6. ALL CEILING INSTALLED ITEMS ARE NOT NECESSARILY SHOWN ON THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR MUST COORDINATE WITH ALL TRADES FOR EXACT QUANTITY AND LOCATION.
7. REFER TO ELECTRICAL DRAWINGS FOR ALL LIGHTING FIXTURE TYPES AND DEVICES. A LIGHT FIXTURE OR A GROUPING OF LIGHT FIXTURES SHALL BE CENTERED IN THE ROOM UON.
8. REFER TO MECHANICAL DRAWINGS FOR DIFFUSERS AND ITEMS NOT SHOWN ON ARCHITECTURAL CEILING PLANS.
9. ALL ITEMS INSTALLED IN ACOUSTICAL CEILINGS SHALL BE INSTALLED IN THE CENTER OF THE TILE. IF MORE THAN ONE ITEM FALLS WITHIN A TILE THE ITEM SHALL BE LOCATED WITHIN THE QUARTER POINT OF THE TILE. A TILE SHALL BE LIMITED TO THREE ITEMS.
10. WITHIN INMATE DORMS PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL CEILING MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. SECURITY SEALANT SHALL ALSO BE PROVIDED AT THE GAP BETWEEN THE FACE OF HOODS AND THE CEILING.
11. ALL LIGHT FIXTURES NOT IN A SUSPENDED CEILING SHALL BE CENTERED IN ROOM OR SPACE, UON.
12. SEE SHEET I-641 FOR WINDOW COVERINGS LEGEND AND NOTES.

CEILING PLAN LEGEND

- 5/8" GYPSUM BOARD O/ MTL STUDS (NON-RATED ACCESS DOORS, MOISTURE RESISTANT GYP BD AT ALL WET AREAS), SEE DET — 8/A-534 AND 6/A-553
- 5/8" HIGH-IMPACT RESISTANT GYP BD O/ SECURITY LATH O/ MTL STUD CEILING FRAMING (MEDIUM-SECURITY ACCESS DOORS, HI-IMPACT MOISTURE RESISTANT GYP BD AT ALL WET AREAS), SEE DET — 8/A-534 AND 9/A-553
- HIGH IMPACT MOISTURE RESISTANT GYP BD W/ VENEER PLASTER COATING O/ SECURITY LATH CEILING, SEE DET — 8/A-534 AND 17/A-553
- **CL1:** SUSPENDED LINEAR WOOD CEILING SYSTEM, SEE DET — 14/A-554
- **CL2:** 12" x 12" GLUE-ON ACOUSTICAL TILE O/ 5/8" HIGH IMPACT GYP BD ON MTL STUD (MEDIUM-SECURITY ACCESS DOORS), SEE DET — 8/A-534 AND 9/A-553
- **CL3:** 2' X 4' ACOUSTICAL CEILING TILE, SEE DET — 12/A-551
- **CL4:** 18" WIDE SECURITY METAL PLANK CEILING SYSTEM, SEE DET — 7/A-553
- **CL5:** 2' X 4' ACOUSTICAL CEILING TILE, SEE DET — 12/A-551
- **CL6:** 2'X4' IMPACT RESISTANT ACOUSTICAL TILE W/ RETENTION CLIPS, SEE DET — 12/A-551 AND 13/A-551
- SECURITY MESH SCREEN O/ WOVEN SECURITY MESH, SEE DET — 12/A-553 AND 16/A-553
- CONCRETE FILLED FLAT BOTTOM STRUCTURAL METAL DECK SECURITY SEALANT AT ALL EXPOSED JOINTS/SEAMS AND PAINT PER ROOM FINISH SCHED
- 8'-0" CEILING TAG (HEIGHT ABOVE FINISHED FLOOR)
- OPEN — OPEN TO ABOVE
- ROOF ACCESS HATCH
- CEILING ACCESS DOOR, SIZE VARIES, SEE NOTES #4 ABOVE
- LIGHT FIXTURES, SEE ELEC DRAWINGS
- EXIT — CEILING OR WALL MOUNTED EXIT LIGHT/SIGNS WITH DIRECTIONAL ARROWS WHERE SHOWN, SEE ELEC DRAWINGS FOR ADDITIONAL INFORMATION
- SKYLIGHT
- WC# — WC# REFERS TO WINDOW COVERING, SEE EQUIPMENT SCHED. FOR FINISHES, SEE INTERIORS FINISH SCHED
- MECHANICAL FIXTURES, SEE MECHANICAL DRAWINGS
- CEILING ACCESS DOOR, SIZE VARIES, SEE GENERAL NOTES
- M — ELECTRONIC SECURITY DEVICES, SEE TY DRAWINGS

KEY PLAN



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TITLE

CEILING PLAN - LEVEL 1 - ENLARGED - AREA 'D'

SHEET

A-121D

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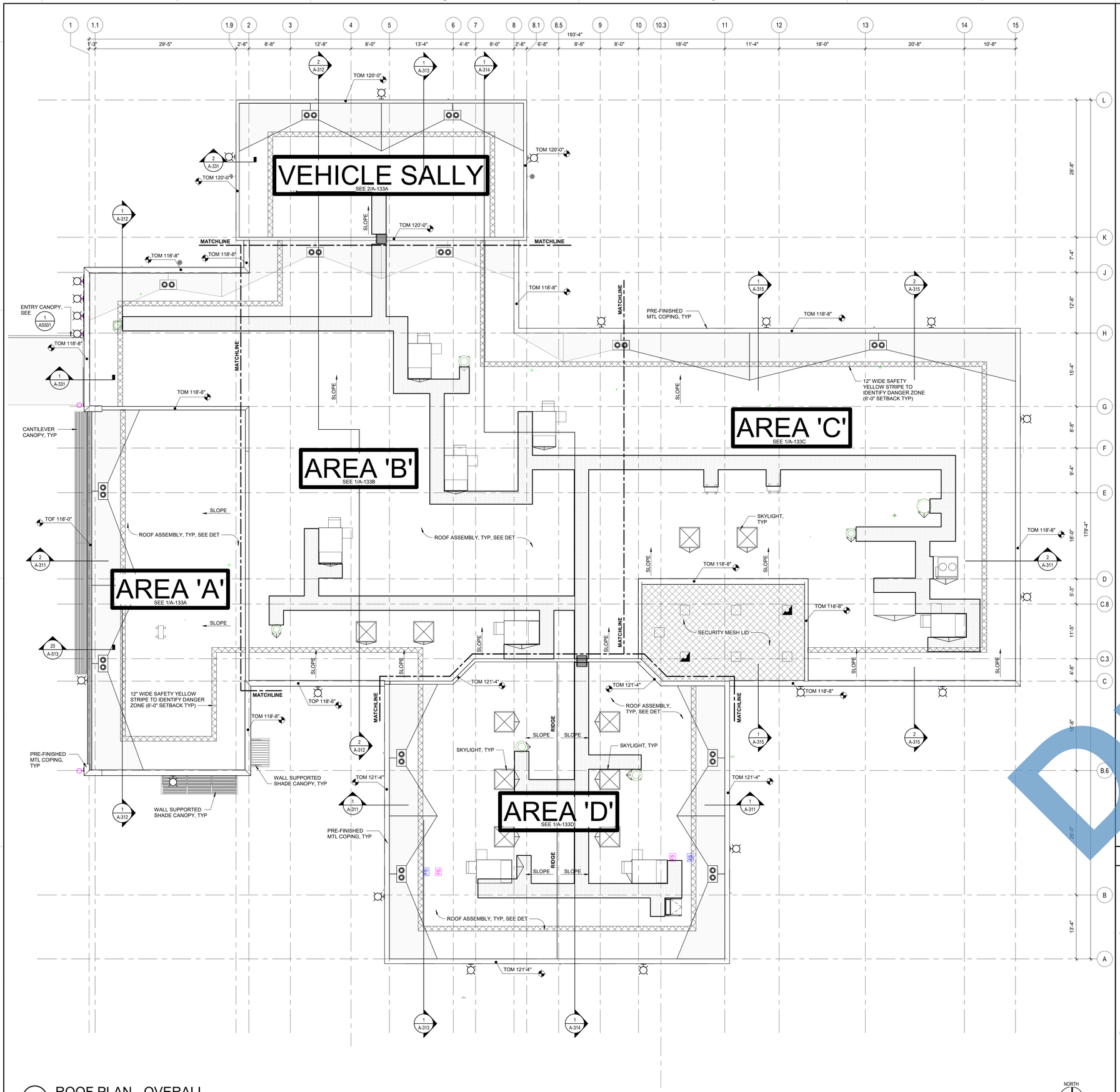

1 ROOF PLAN - OVERALL
1/8" = 1'-0"

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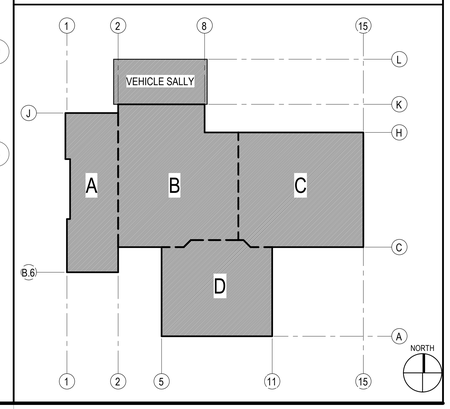
KEY PLAN



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TITLE
ROOF PLAN - OVERALL

SHEET
A-133

V1

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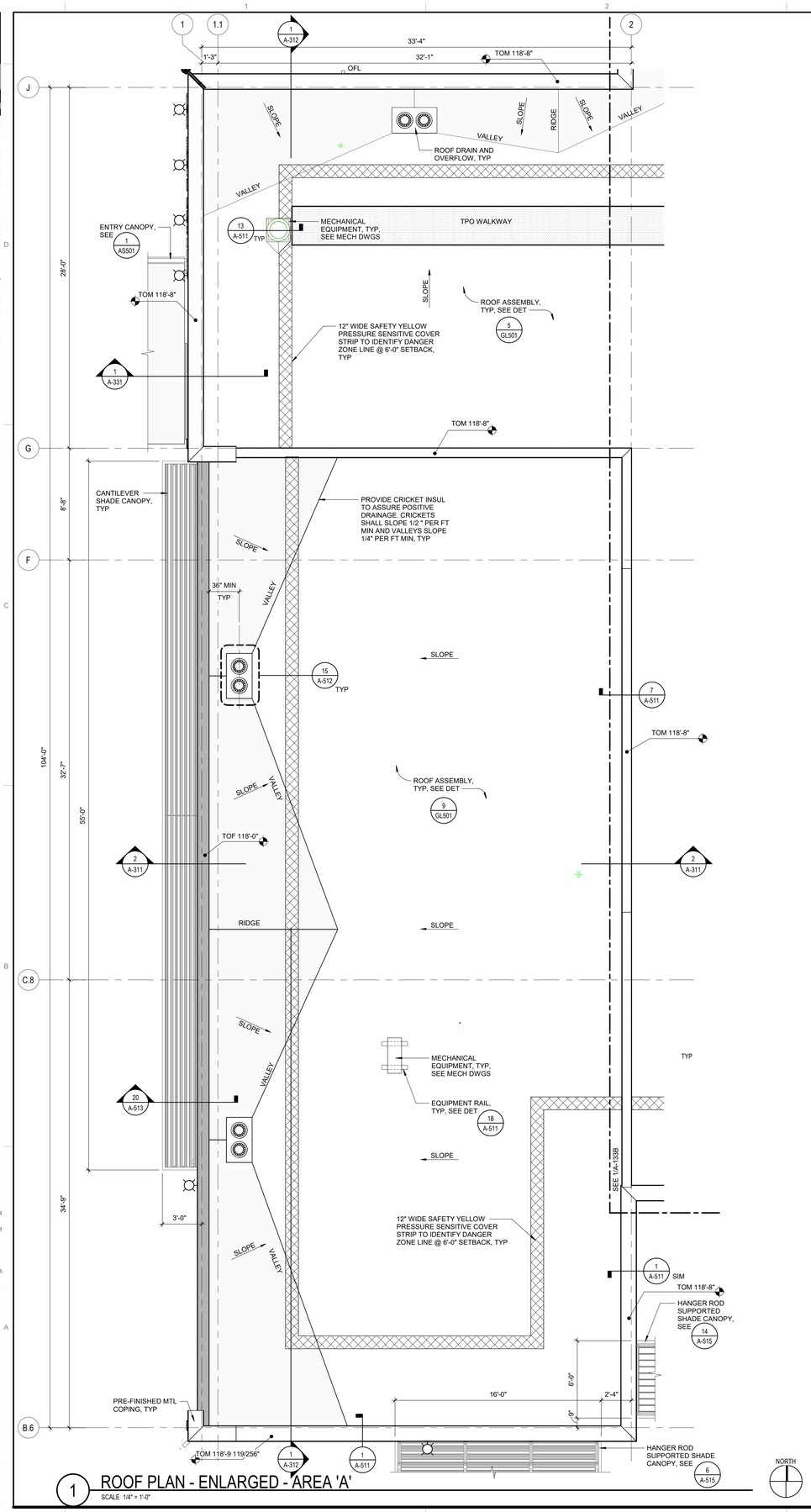
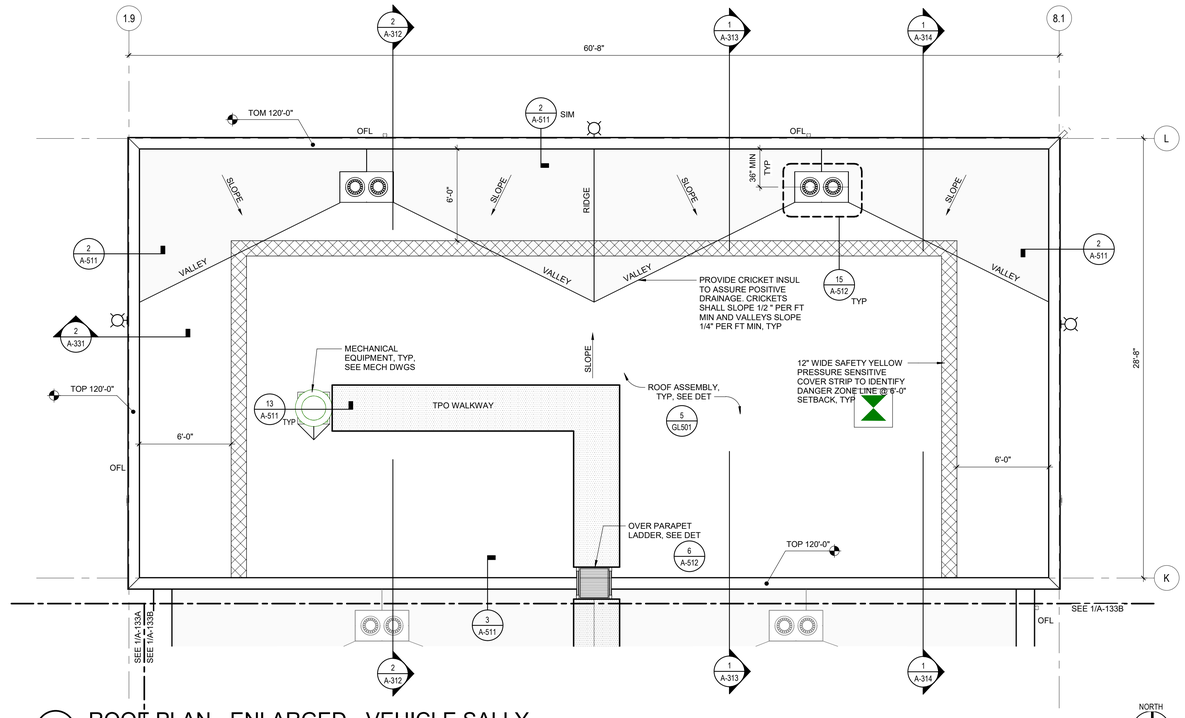


1 ROOF PLAN - ENLARGED - AREA 'A'

SCALE 1/4" = 1'-0"



2 ROOF PLAN - ENLARGED - VEHICLE SALLY

1/4" = 1'-0"

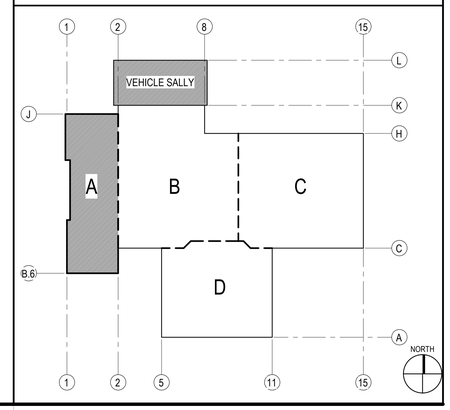
ROOF PLAN LEGEND

- SINGLE PLY TPO ROOF ASSEMBLY, SEE DET
- SECURITY WOVEN MESH
- 12" WIDE SAFETY YELLOW PRESSURE SENSITIVE COVER STRIP TO IDENTIFY DANGER ZONE LINE @ 6'-0" SETBACK
- TPO ROOF ASSEMBLY WALKWAY PAD
- SLOPE — SLOPE TO DRAIN
- SKYLIGHT, TYP SEE DET 13 A-512
- ROOF ACCESS HATCH, TYP SEE DET 8 A-512
- OVER PARAPET LADDER, TYP SEE DET 6 A-512
- RD — ROOF DRAIN AND OVERFLOW DRAIN, SEE DET 15 A-512
- RIDGE / VALLEY — TAPERED CRICKET ASSEMBLY - SLOPE TO DRAIN
- PIPES/CONDUIT THROUGH ROOF, SEE DET 11 A-511 OR 17 A-511 — FOR MULTI PIPES/CONDUIT SEE DET 15 A-511
- TOP 118'-0" — SPOT ELEVATION MARK
- LIGHTING FIXTURE, SEE ELEC

ROOF GENERAL NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS UON.
3. NOT ALL ROOF PENETRATIONS ARE SHOWN. FOR OTHER ROOF PENETRATION LOCATIONS SEE STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, AND LOW VOLTAGE(TELE/DATA AND SECURITY DEVICES) DRAWINGS. NO ROOF PENETRATIONS ARE TO BE LOCATED IN ROOF WALKWAY SURFACE. FOR ROOF PENETRATION DETAILS & TYPICAL ROOF DETAILS NOT REFERENCED ON ROOF PLAN SEE SHEETS GL501, A-511, AND A-512.
4. GENERAL CONTRACTOR TO COORDINATE LOCATIONS OF ROOF WALKWAY SURFACE WITH FINAL EQUIPMENT PLACEMENT. ALLOW SPACE BETWEEN PADS OF THE WALKWAY SURFACE FOR ROOF DRAINAGE.
5. MAINTAIN A MINIMUM CLEARANCE OF 6'-0" BETWEEN FACE OF MECH/PLUMBING EQUIPMENT/PIPING AND OUTSIDE FACE OF PARAPET. CONTRACTOR TO COORDINATE WITH HIS SUBCONTRACTORS FOR THE REQUIREMENTS PRIOR TO PLACEMENT OF THESE ITEMS.
6. PROVIDE THE CURB AT SMALLER MECHANICAL CONDENSING UNITS, TYP
7. ROOF SLOPE AND CRICKET SHOULD BE 1/4" / 12" MINIMUM, UON. SEE STRUCT FOR STEEL ELEVATIONS.

KEY PLAN



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TITLE
ROOF PLAN - ENLARGED - AREA 'A'

SHEET
A-133A

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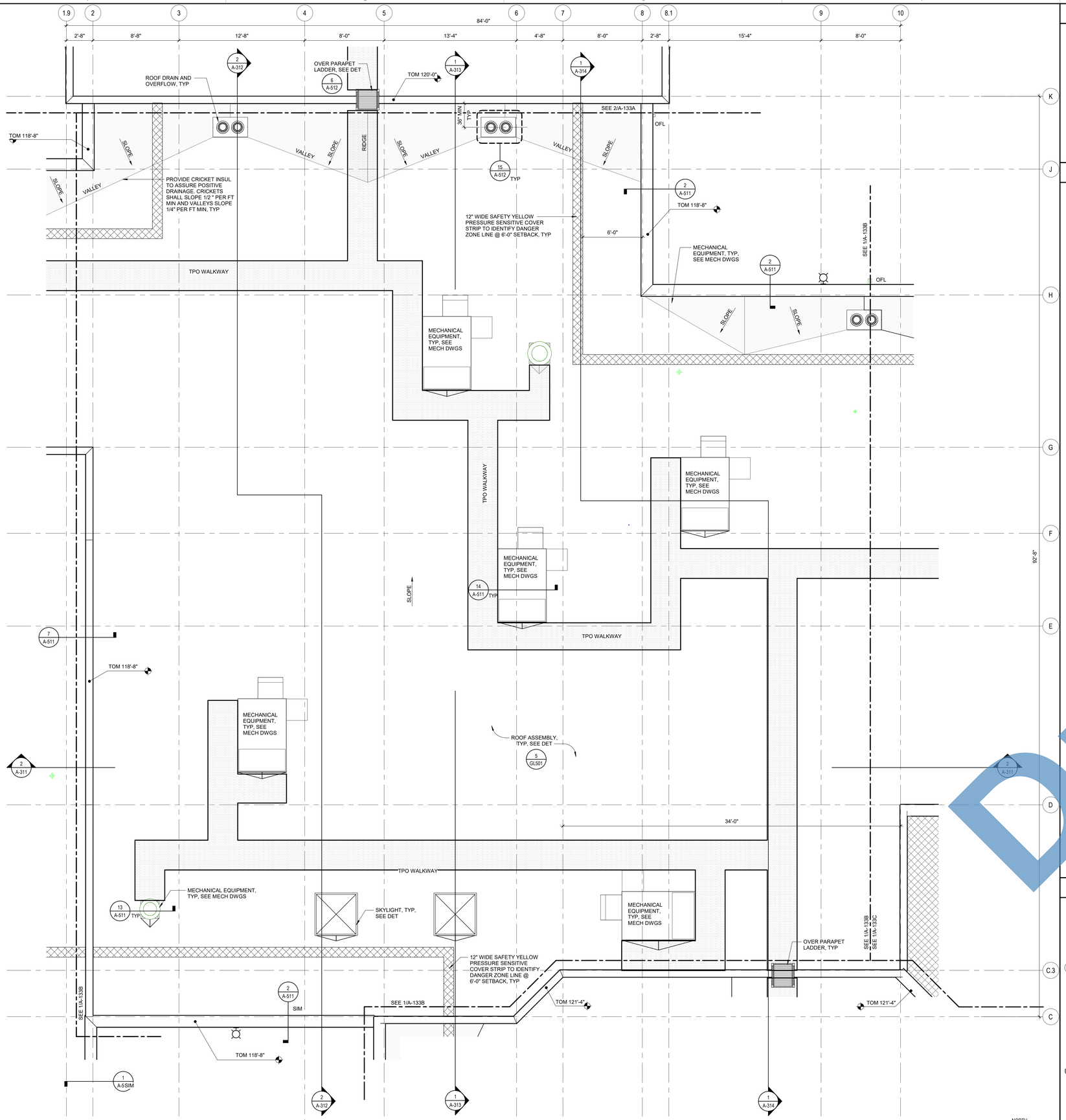


1 ROOF PLAN - ENLARGED - AREA 'B'

SCALE 1/4" = 1'-0"

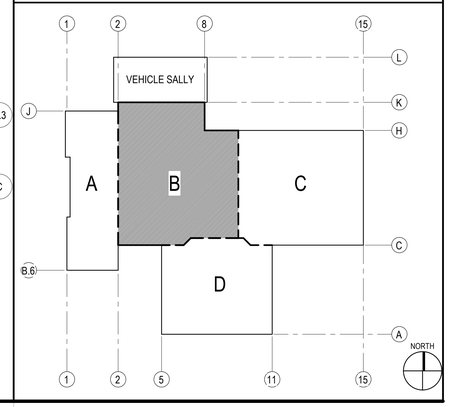
ROOF GENERAL NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS UON.
3. NOT ALL ROOF PENETRATIONS ARE SHOWN. FOR OTHER ROOF PENETRATION LOCATIONS SEE STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, AND LOW VOLTAGE(TELE/DATA AMD SECURITY DEVICES) DRAWINGS. NO ROOF PENETRATIONS ARE TO BE LOCATED IN ROOF WALKWAY SURFACE. FOR ROOF PENETRATION DETAILS & TYPICAL ROOF DETAILS NOT REFERENCED ON ROOF PLAN SEE SHEETS GL501, A-511, AND A-512.
4. GENERAL CONTRACTOR TO COORDINATE LOCATIONS OF ROOF WALKWAY SURFACE WITH FINAL EQUIPMENT PLACEMENT. ALLOW SPACE BETWEEN PADS OF THE WALKWAY SURFACE FOR ROOF DRAINAGE.
5. MAINTAIN A MINIMUM CLEARANCE OF 6'-0" BETWEEN FACE OF MECH/PLUMBING EQUIPMENT/PIPING AND OUTSIDE FACE OF PARAPET. CONTRACTOR TO COORDINATE WITH HIS SUBCONTRACTORS FOR THE REQUIREMENTS PRIOR TO PLACEMENT OF THESE ITEMS.
6. PROVIDE THE CURB AT SMALLER MECHANICAL CONDENSING UNITS, TYP
7. ROOF SLOPE AND CRICKET SHOULD BE 1/4" / 12" MINIMUM, UON. SEE STRUCT FOR STEEL ELEVATIONS.

ROOF PLAN LEGEND

- SINGLE PLY TPO ROOF ASSEMBLY, SEE DET
- SECURITY WOVEN MESH
- 12" WIDE SAFETY YELLOW PRESSURE SENSITIVE COVER STRIP TO IDENTIFY DANGER ZONE LINE @ 6'-0" SETBACK
- TPO ROOF ASSEMBLY WALKWAY PAD
- SLOPE — SLOPE TO DRAIN
- SKYLIGHT, TYP SEE DET 13 / A-512
- ROOF ACCESS HATCH, TYP SEE DET 8 / A-512
- OVER PARAPET LADDER, TYP SEE DET 6 / A-512
- RD — ROOF DRAIN AND OVERFLOW DRAIN, SEE DET 15 / A-512
- RIDGE / VALLEY — TAPERED CRICKET ASSEMBLY - SLOPE TO DRAIN
- PIPES/CONDUIT THROUGH ROOF, SEE DET 16 / A-511 OR 17 / A-511 — FOR MULTI PIPES/CONDUIT SEE DET 15 / A-511
- TOP 118'-0" — SPOT ELEVATION MARK
- LIGHTING FIXTURE, SEE ELEC

KEY PLAN



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TITLE
ROOF PLAN - ENLARGED - AREA 'B'

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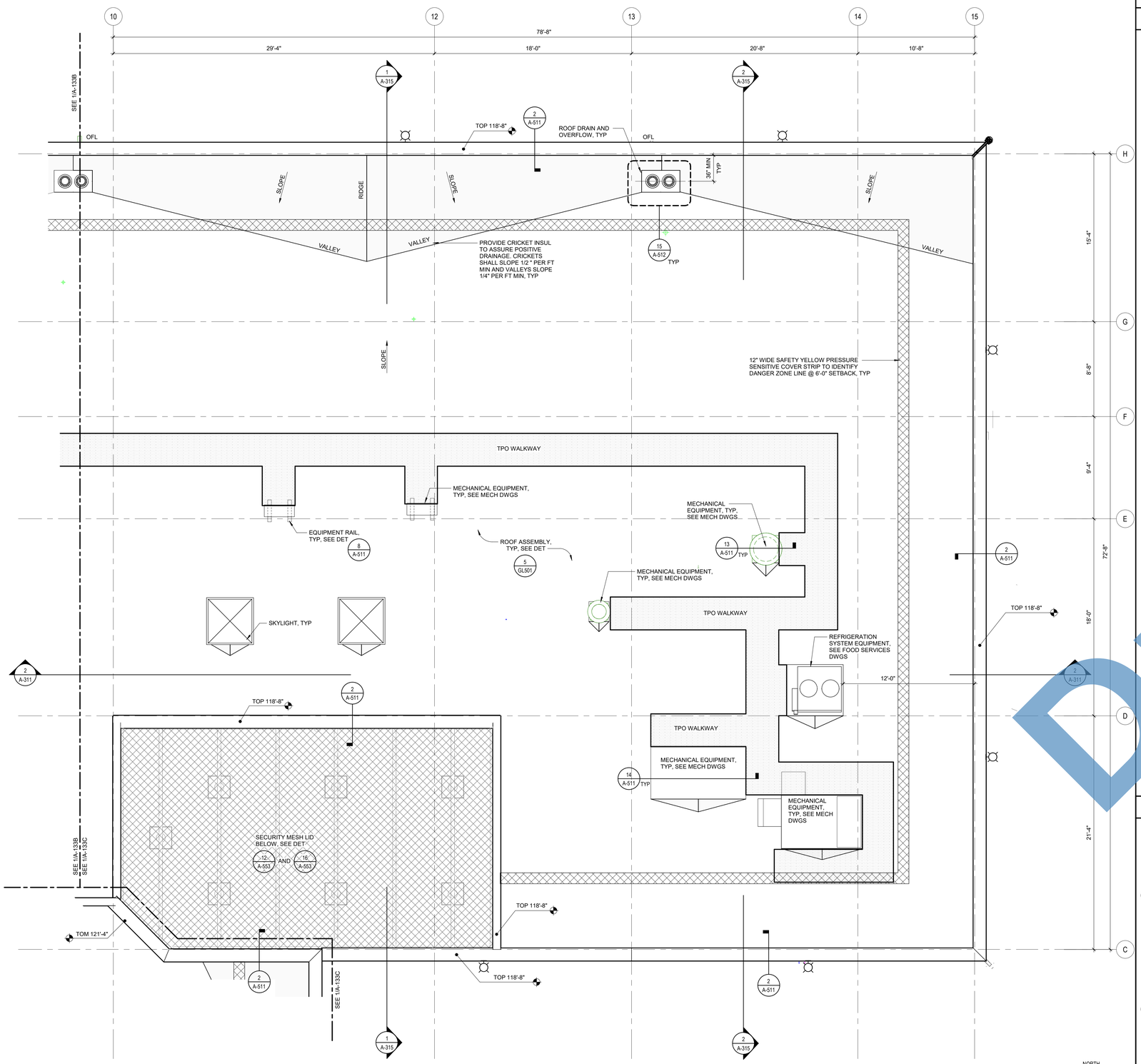


1 ROOF PLAN - ENLARGED - AREA 'C'

SCALE 1/4" = 1'-0"

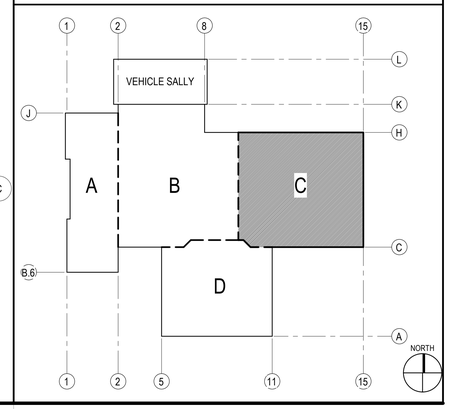
ROOF GENERAL NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS UON.
3. NOT ALL ROOF PENETRATIONS ARE SHOWN. FOR OTHER ROOF PENETRATION LOCATIONS SEE STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, AND LOW VOLTAGE(TELE/DATA AMD SECURITY DEVICES) DRAWINGS. NO ROOF PENETRATIONS ARE TO BE LOCATED IN ROOF WALKWAY SURFACE. FOR ROOF PENETRATION DETAILS & TYPICAL ROOF DETAILS NOT REFERENCED ON ROOF PLAN SEE SHEETS GL501, A-511, AND A-512.
4. GENERAL CONTRACTOR TO COORDINATE LOCATIONS OF ROOF WALKWAY SURFACE WITH FINAL EQUIPMENT PLACEMENT. ALLOW SPACE BETWEEN PADS OF THE WALKWAY SURFACE FOR ROOF DRAINAGE.
5. MAINTAIN A MINIMUM CLEARANCE OF 6'-0" BETWEEN FACE OF MECH/PLUMBING EQUIPMENT/PIPING AND OUTSIDE FACE OF PARAPET. CONTRACTOR TO COORDINATE WITH HIS SUBCONTRACTORS FOR THE REQUIREMENTS PRIOR TO PLACEMENT OF THESE ITEMS.
6. PROVIDE THE CURB AT SMALLER MECHANICAL CONDENSING UNITS, TYP
7. ROOF SLOPE AND CRICKET SHOULD BE 1/4" / 12" MINIMUM, UON. SEE STRUCT FOR STEEL ELEVATIONS.

ROOF PLAN LEGEND

- SINGLE PLY TPO ROOF ASSEMBLY, SEE DET
- SECURITY WOVEN MESH
- 12" WIDE SAFETY YELLOW PRESSURE SENSITIVE COVER STRIP TO IDENTIFY DANGER ZONE LINE @ 6'-0" SETBACK
- TPO ROOF ASSEMBLY WALKWAY PAD
- SLOPE — SLOPE TO DRAIN
- SKYLIGHT, TYP SEE DET 13/A-512
- ROOF ACCESS HATCH, TYP SEE DET 8/A-512
- OVER PARAPET LADDER, TYP SEE DET 6/A-512
- RD — ROOF DRAIN AND OVERFLOW DRAIN, SEE DET 15/A-512
- RIDGE / VALLEY — TAPERED CRICKET ASSEMBLY - SLOPE TO DRAIN
- PIPES/CONDUIT THROUGH ROOF, SEE DET 16/A-511 OR 17/A-511 — FOR MULTI PIPES/CONDUIT SEE DET 15/A-511
- TOP 118'-0" — SPOT ELEVATION MARK
- LIGHTING FIXTURE, SEE ELEC

KEY PLAN



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LICENSED ARCHITECT — MICHAEL J. DAILEY — C27266 — REN. 06-30-25 — STATE OF CALIFORNIA

PROJECT

MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT

MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

ROOF PLAN - ENLARGED - AREA 'C'

SHEET

A-133C

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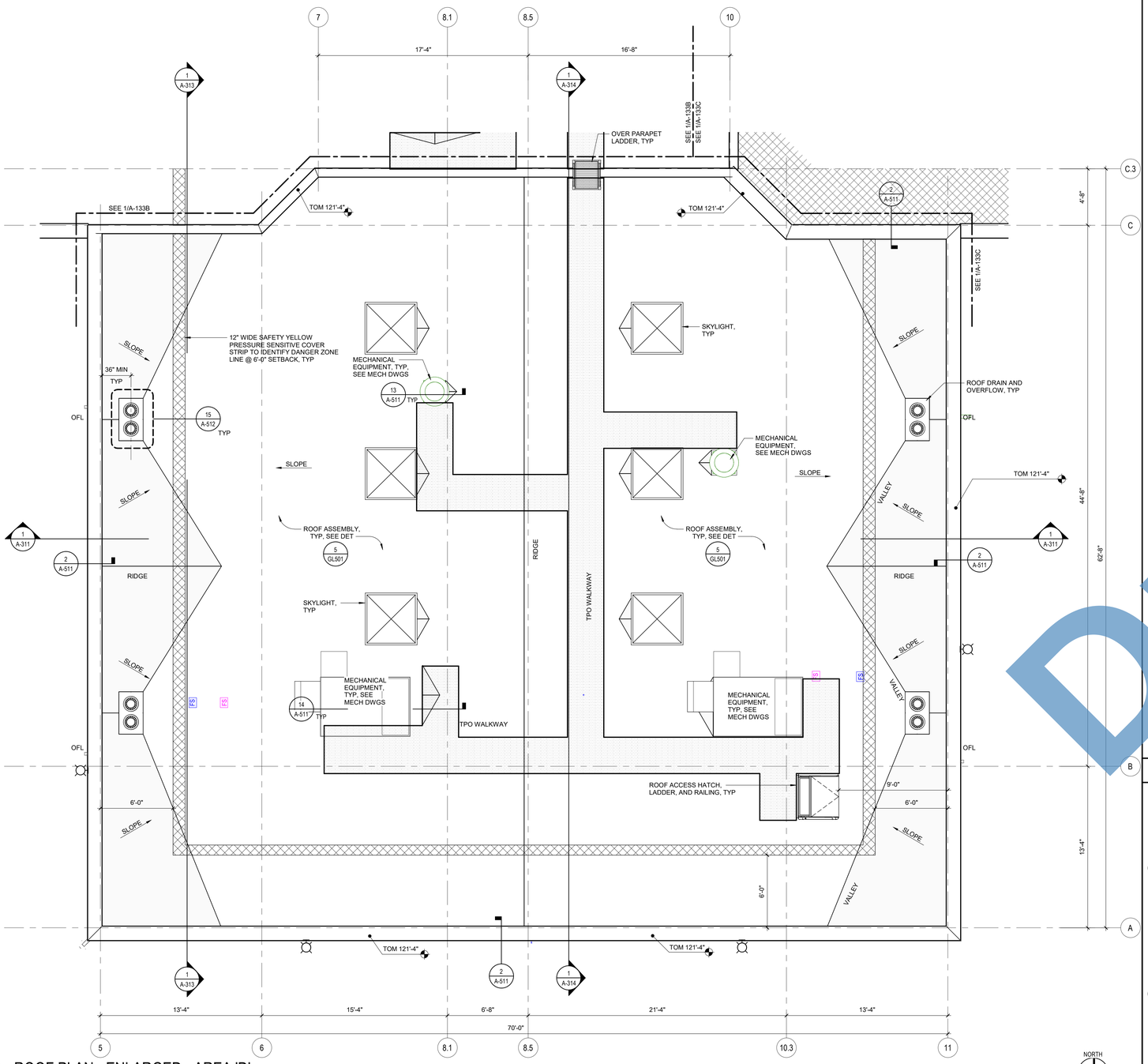


1 ROOF PLAN - ENLARGED - AREA 'D'
SCALE 1/4" = 1'-0"

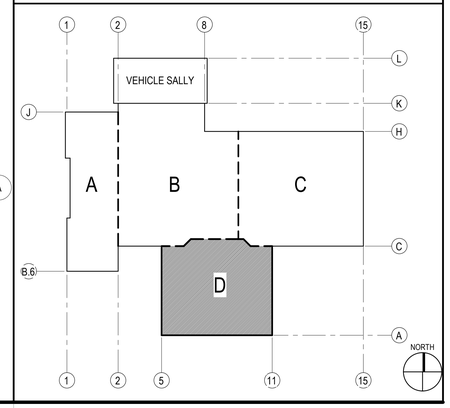
ROOF GENERAL NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUDS, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS UON.
3. NOT ALL ROOF PENETRATIONS ARE SHOWN. FOR OTHER ROOF PENETRATION LOCATIONS SEE STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, FIRE ALARM, AND LOW VOLTAGE(TELE/DATA AMD SECURITY DEVICES) DRAWINGS. NO ROOF PENETRATIONS ARE TO BE LOCATED IN ROOF WALKWAY SURFACE. FOR ROOF PENETRATION DETAILS & TYPICAL ROOF DETAILS NOT REFERENCED ON ROOF PLAN SEE SHEETS GL501, A-511, AND A-512.
4. GENERAL CONTRACTOR TO COORDINATE LOCATIONS OF ROOF WALKWAY SURFACE WITH FINAL EQUIPMENT PLACEMENT. ALLOW SPACE BETWEEN PADS OF THE WALKWAY SURFACE FOR ROOF DRAINAGE.
5. MAINTAIN A MINIMUM CLEARANCE OF 6'-0" BETWEEN FACE OF MECH/PLUMBING EQUIPMENT/PIPING AND OUTSIDE FACE OF PARAPET. CONTRACTOR TO COORDINATE WITH HIS SUBCONTRACTORS FOR THE REQUIREMENTS PRIOR TO PLACEMENT OF THESE ITEMS.
6. PROVIDE THE CURB AT SMALLER MECHANICAL CONDENSING UNITS, TYP
7. ROOF SLOPE AND CRICKET SHOULD BE 1/4" / 12" MINIMUM, UON. SEE STRUCT FOR STEEL ELEVATIONS.

ROOF PLAN LEGEND

- SINGLE PLY TPO ROOF ASSEMBLY, SEE DET
- SECURITY WOVEN MESH
- 12" WIDE SAFETY YELLOW PRESSURE SENSITIVE COVER STRIP TO IDENTIFY DANGER ZONE LINE @ 6'-0" SETBACK
- TPO ROOF ASSEMBLY WALKWAY PAD
- SLOPE — SLOPE TO DRAIN
- SKYLIGHT, TYP SEE DET 13/A-512
- ROOF ACCESS HATCH, TYP SEE DET 8/A-512
- OVER PARAPET LADDER, TYP SEE DET 6/A-512
- RD — ROOF DRAIN AND OVERFLOW DRAIN, SEE DET 15/A-512
- RIDGE / VALLEY — TAPERED CRICKET ASSEMBLY - SLOPE TO DRAIN
- PIPES/CONDUIT THROUGH ROOF, SEE DET 11/A-511 OR 17/A-511 — FOR MULTI PIPES/CONDUIT SEE DET 15/A-511
- TOP 118'-0" — SPOT ELEVATION MARK
- LIGHTING FIXTURE, SEE ELEC

KEY PLAN



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ROOF PLAN - ENLARGED - AREA 'D'

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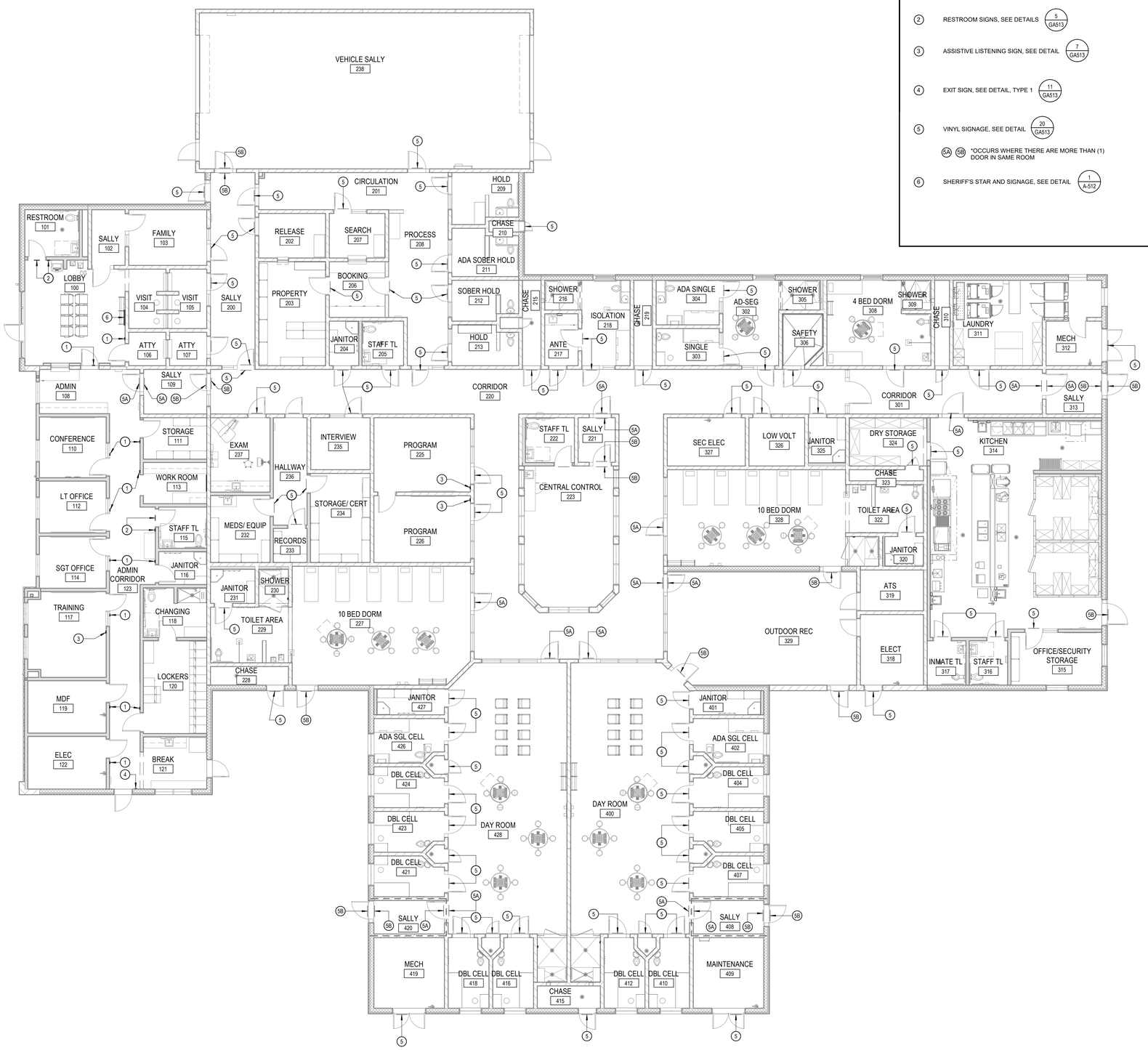

1 SIGNAGE PLAN

SCALE 1/8" = 1'-0"

NORTH

SIGNAGE GENERAL NOTES

1. FOR SITE SIGNAGE, REFER TO AS DRAWINGS
2. FOR EXTERIOR BUILDING SIGNAGE, SEE EXTERIOR ELEVATIONS

SIGNAGE TYPES

1. PERMANENT ROOM IDENTIFICATION SIGN, SEE DETAIL 4/GA513
2. RESTROOM SIGNS, SEE DETAILS 5/GA513
3. ASSISTIVE LISTENING SIGN, SEE DETAIL 7/GA513
4. EXIT SIGN, SEE DETAIL, TYPE 1 11/GA513
5. VINYL SIGNAGE, SEE DETAIL 20/GA513

   5A 5B *OCCURS WHERE THERE ARE MORE THAN (1) DOOR IN SAME ROOM
6. SHERIFF'S STAR AND SIGNAGE, SEE DETAIL 1/A-512

INTERIOR SIGNAGE SCHEDULE

LOCATION				
ROOM NO.	ROOM NAME	SIGN VERBIAGE	SIGN TYPE	COMMENTS
103	FAMILY	FAMILY VISIT	5	
106	ATTY	VISIT	1	
107	ATTY	VISIT - 2	5	
108	ADMIN	ADMINISTRATION	1	
109	SALLY	WEST SALLY - 2	5B	
109	SALLY	WEST SALLY - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
109	SALLY	WEST SALLY - 2	5B	
109	SALLY	WEST SALLY - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
110	CONFERENCE	CONFERENCE	1	
111	STORAGE	STORAGE	1	
112	LT OFFICE	LIEUTENANT OFFICE	1	
113	WORK ROOM	WORK ROOM	1	
114	SGT OFFICE	SERGEANT OFFICE	1	
116	JANITOR	JANITOR	1	
117	TRAINING	TRAINING	1	
119	MDF	MDF	1	
120	LOCKERS	LOCKERS	1	
122	ELEC	ELECTRICAL	1	
123	ADMIN CORRIDOR	N/A	4	
200	SALLY	VEHICLE SALLY	5B	VINYL SIGN ON BOTH SIDES OF DOOR
200	SALLY	VEHICLE SALLY	5B	VINYL SIGN ON BOTH SIDES OF DOOR
200	SALLY	NORTH SALLY -1	5	
200	SALLY	VISIT - 1	5	
200	SALLY	NORTH SALLY - 2	5	VINYL SIGN ON BOTH SIDES OF DOOR
200	SALLY	NORTH SALLY - 2	5	VINYL SIGN ON BOTH SIDES OF DOOR
201	CIRCULATION	INTAKE - 1	5	
201	CIRCULATION	INTAKE - 3	5	
202	RELEASE	RELEASE	5	
203	PROPERTY	PROPERTY	5	
204	JANITOR	JANITOR	5	
205	STAFF TL	STAFF	5	
206	BOOKING	BOOKING	5	
207	SEARCH	SEARCH	5	
208	PROCESS	INTAKE - 2	5	
209	HOLD	HOLDING - 1	5	
210	CHASE	CHASE	5	
211	ADA SOBER HOLD	SOBER HOLD - 1	5	
212	SOBER HOLD	SOBER HOLD - 2	5	
213	HOLD	HOLDING - 2	5	
215	CHASE	CHASE	5	
217	ANTE	ANTE	5	
217	ANTE	ANTE	5	
218	ISOLATION	ISOLATION	5	
219	CHASE	CHASE	5	
221	SALLY	CONTROL SALLY - 2	5B	VINYL SIGN ON BOTH SIDES OF DOOR
221	SALLY	CONTROL SALLY - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
221	SALLY	CONTROL SALLY - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
221	SALLY	CONTROL SALLY - 2	5B	VINYL SIGN ON BOTH SIDES OF DOOR
222	STAFF TL	STAFF	5	
225	PROGRAM	PROGRAM - 1	5	
226	PROGRAM	PROGRAM - 2	5	
227	10 BED DORM	UNIT A	5A	
227	10 BED DORM	UNIT A	5B	
228	CHASE	UNIT A CHASE	5	
231	JANITOR	JANITOR	5	
232	MEDS/ EQUIP	MEDS/EQUIP	5	
233	RECORDS	RECORDS	5	
234	STORAGE/ CERT	CERT	5	
235	INTERVIEW	INTERVIEW	5	
236	HALLWAY	STAFF	5	
237	EXAM	EXAM	5	
302	AD-SEG	AD-SEG	5	
303	SINGLE	AD101	5	
304	ADA SINGLE	AD102	5	
306	SAFETY	SAFETY	5	
308	4 BED DORM	4 BED DORM	5	
310	CHASE	CHASE	5	
311	LAUNDRY	LAUNDRY	5	
312	MECH	FIRE RISER	5	
313	SALLY	EAST SALLY - 2	5B	VINYL SIGN ON BOTH SIDES OF DOOR
313	SALLY	EAST SALLY - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
313	SALLY	EAST SALLY - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
313	SALLY	EAST SALLY - 2	5B	VINYL SIGN ON BOTH SIDES OF DOOR
314	KITCHEN	KITCHEN - 1	5A	
314	KITCHEN	KITCHEN - 2	5B	
315	OFFICE/SECURITY STORAGE	OFFICE	5	
316	STAFF TL	STAFF	5	
317	INMATE TL	INMATE	5	
318	ELECT	ELECTRICAL	5	
320	JANITOR	JANITOR	5	
323	CHASE	UNIT B CHASE	5	
324	DRY STORAGE	STORAGE	5	
325	JANITOR	JANITOR	5	
326	LOW VOLT	LOW VOLTAGE	5	
327	SEC ELEC	SEC ELEC	5	
328	10 BED DORM	UNIT B	5A	VINYL SIGN ON BOTH SIDES OF DOOR
328	10 BED DORM	UNIT B	5B	
329	OUTDOOR REC	OUTDOOR REC - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
329	OUTDOOR REC	OUTDOOR REC - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
329	OUTDOOR REC	OUTDOOR REC - 2	5B	
400	DAY ROOM	UNIT C	5A	VINYL SIGN ON BOTH SIDES OF DOOR
400	DAY ROOM	UNIT C REC	5B	
401	JANITOR	JANITOR	5	
402	ADA SGL CELL	C101	5	
403	CHASE	CHASE	5	
404	DBL CELL	C102	5	
405	DBL CELL	C103	5	
406	CHASE	CHASE	5	
407	DBL CELL	C104	5	
408	SALLY	UNIT C SALLY - 2	5B	VINYL SIGN ON BOTH SIDES OF DOOR
408	SALLY	UNIT C SALLY - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
408	SALLY	UNIT C SALLY - 2	5B	VINYL SIGN ON BOTH SIDES OF DOOR
408	SALLY	UNIT C SALLY - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
409	MAINTENANCE	MAINTENANCE	5	
410	DBL CELL	C105	5	
411	CHASE	CHASE	5	
412	DBL CELL	C106	5	
415	CHASE	UNITS C-D CHASE	5	
416	DBL CELL	D109	5	
417	CHASE	CHASE	5	
418	DBL CELL	D105	5	
419	MECH	MECHANICAL	5	
420	SALLY	UNIT D SALLY - 2	5B	
420	SALLY	UNIT D SALLY - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
420	SALLY	UNIT D SALLY - 2	5B	
420	SALLY	UNIT D SALLY - 1	5A	VINYL SIGN ON BOTH SIDES OF DOOR
421	DBL CELL	D104	5	
422	CHASE	CHASE	5	
423	DBL CELL	D103	5	
424	DBL CELL	D102	5	
425	CHASE	CHASE	5	
426	ADA SGL CELL	D101	5	
427	JANITOR	JANITOR	5	
428	DAY ROOM	UNIT D	5A	VINYL SIGN ON BOTH SIDES OF DOOR

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SIGNAGE PLAN

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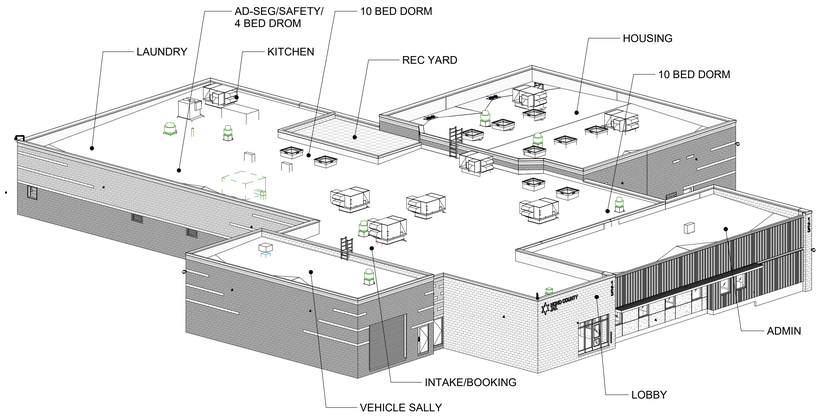
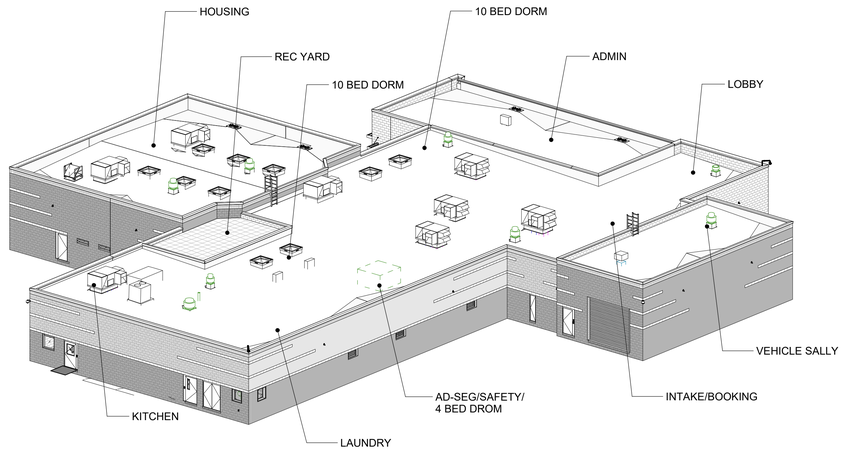


1 AXO NORTH WEST



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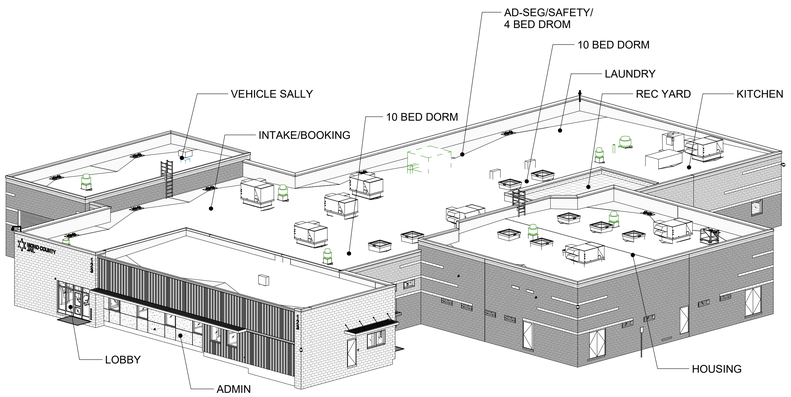

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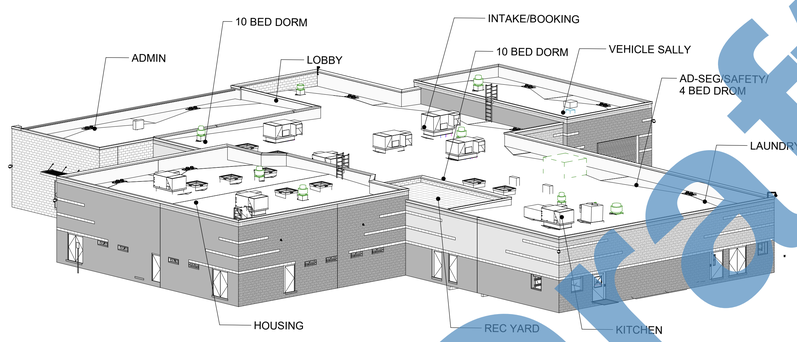
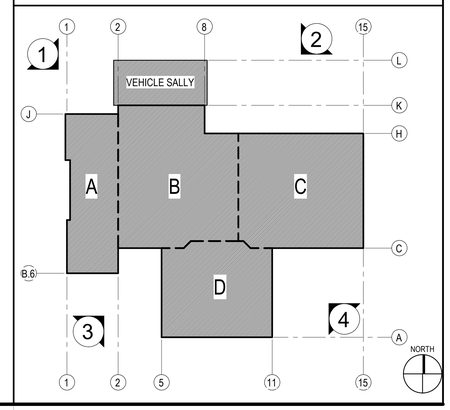


4 AXO SOUTH EAST

Draft

KEY PLAN



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ELEVATIONS - EXTERIOR - AXONOMETRICS

SHEET
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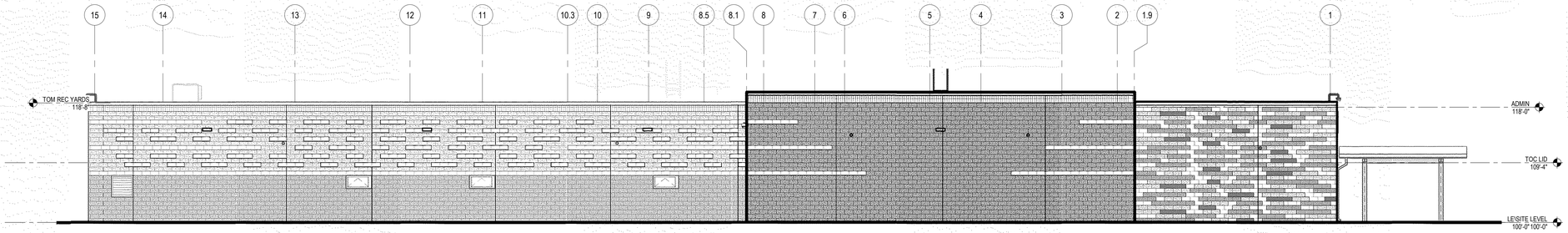
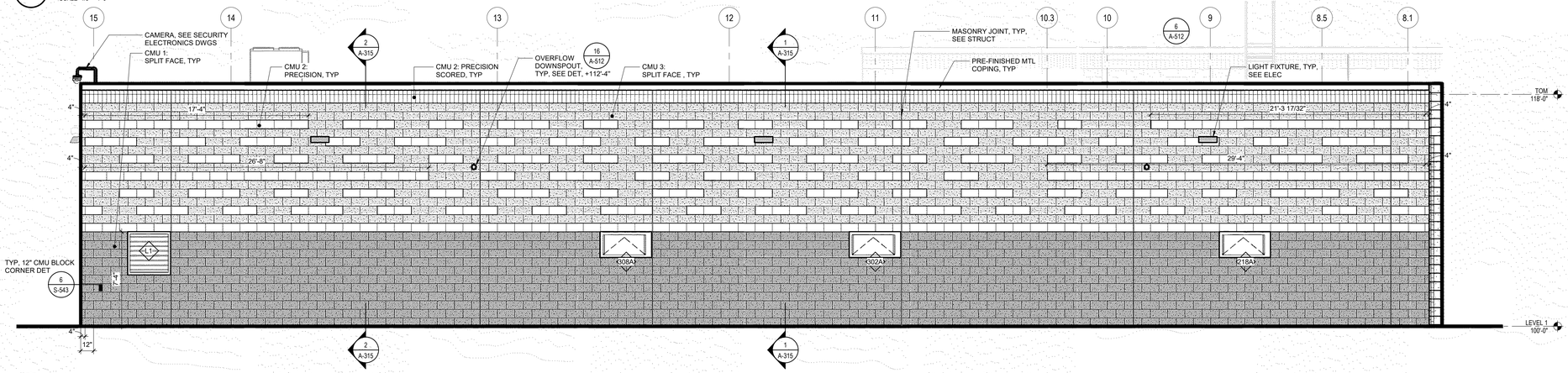


1 NORTH EXTERIOR ELEVATION - OVERALL

NOTE: PROVIDE ANTI-GRAFFITI COATING TO ALL CMU ON THIS ELEVATION

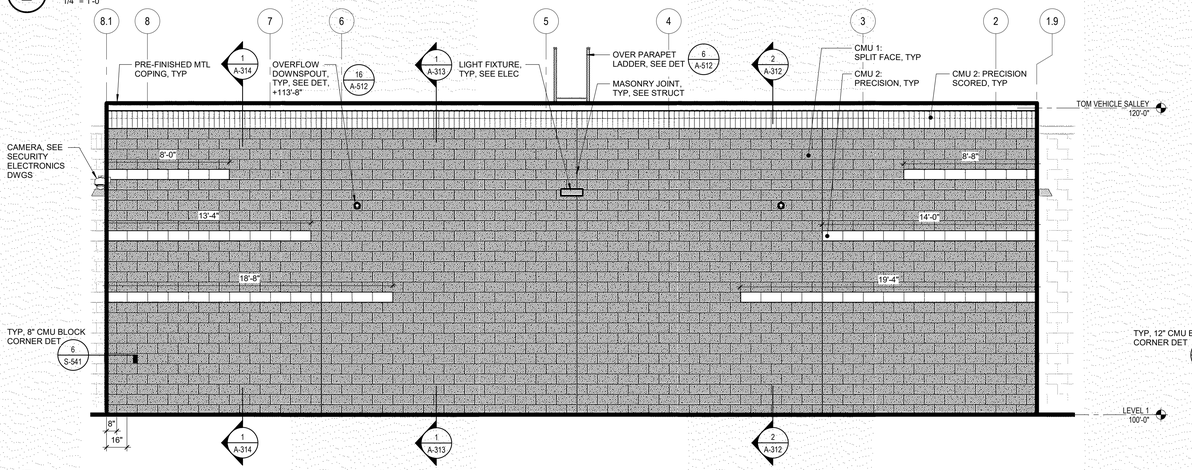
SCALE 1/8" = 1'-0"



2 NORTH EXTERIOR ELEVATION - ENLARGED

NOTE: PROVIDE ANTI-GRAFFITI COATING TO ALL CMU ON THIS ELEVATION

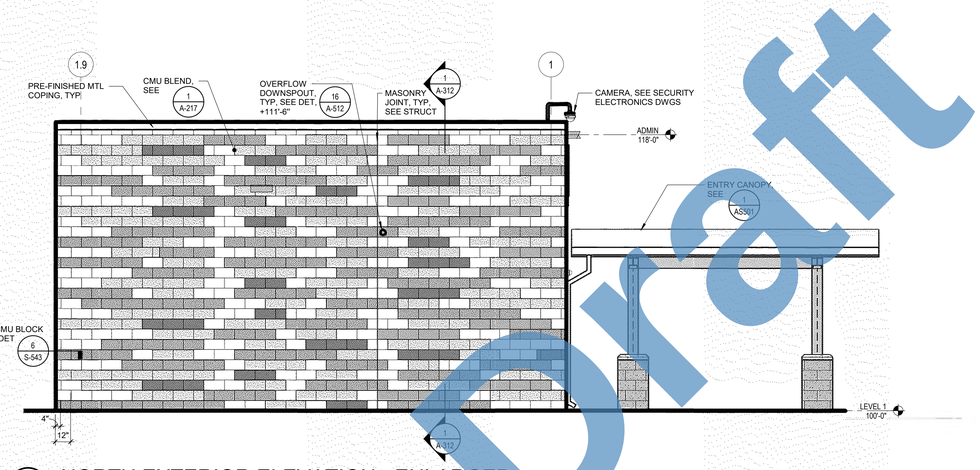
1/4" = 1'-0"



3 NORTH EXTERIOR ELEVATION - ENLARGED

NOTE: PROVIDE ANTI-GRAFFITI COATING TO ALL CMU ON THIS ELEVATION

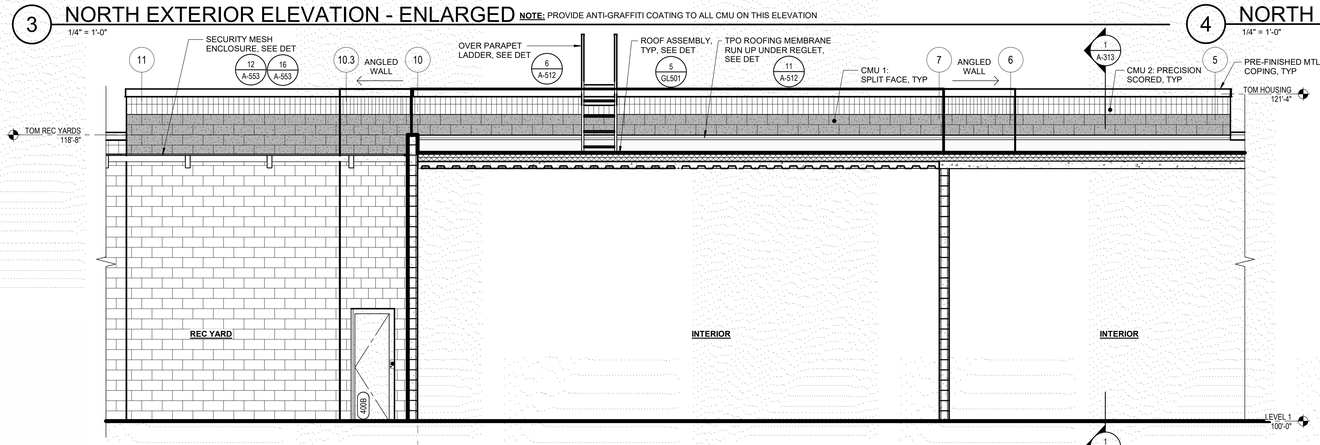
1/4" = 1'-0"



4 NORTH EXTERIOR ELEVATION - ENLARGED

NOTE: PROVIDE ANTI-GRAFFITI COATING TO ALL CMU ON THIS ELEVATION

1/4" = 1'-0"



5 NORTH EXTERIOR ELEVATION - ENLARGED

1/4" = 1'-0"

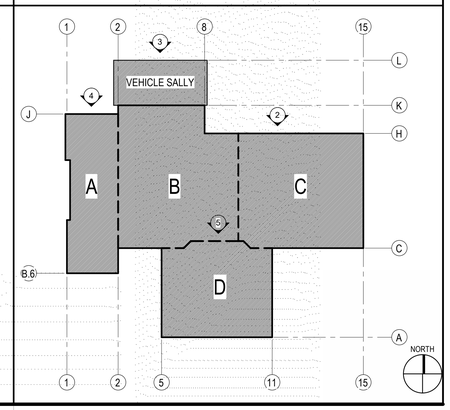
LEGEND

- **CMU 1** SPLIT FACE, RUNNING BOND COLOR# BASALITE 111
- **CMU 2** PRECISION, RUNNING BOND COLOR# BASALITE W-1
- **CMU 3** SPLIT FACE, RUNNING BOND COLOR# BASALITE NAT
- **CMU 2** PRECISION THREE SCORED, RUNNING BOND COLOR# BASALITE W-1
- **CMU 4** PRECISION, RUNNING BOND COLOR# BASALITE 112D
- **CEMENT PLASTER SYSTEM** COLOR# TBD BY ARCHITECT
- **MTL WALL PANEL** SEE 5 / A-215

NOTES:

1. WHERE EQUIPMENT IS SHOWN TO BE MOUNTED TO EXTERIOR SPLIT-FACED CMU PROVIDE PRECISION CMU OF THE SAME COLOR TO COVER THE EQUIPMENT HEIGHT AND WIDTH.
2. PROVIDE PRECISION CMU BLOCK ON INTERIOR FACE OF REC YARD WALLS UP TO SECURITY SCREEN, PROVIDE WATER REPELLENT COATING ON WALLS.
3. WATER REPELLENT COATING TO BE APPLIED ON EXTERIOR SURFACE OF ALL EXTERIOR CMU BLOCK. PROVIDE ADDITIONAL COATING FOR ANTI-GRAFFITI WHERE NOTED ON ELEVATIONS
4. ALL CMU PATTERNS SHALL BE IN COMPLIANCE WITH CMU MOCK UP WALL, AS APPROVED BY ARCHITECT. FOR CMU MOCK UP WALL, SEE SHEET A-711.
5. ALL EXPOSED CONTROL JOINTS IN INMATE ACCESSIBLE AREAS SHALL RECEIVE SECURITY SEALANT

KEY PLAN



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ELEVATIONS - EXTERIOR - NORTH

SHEET
A-212

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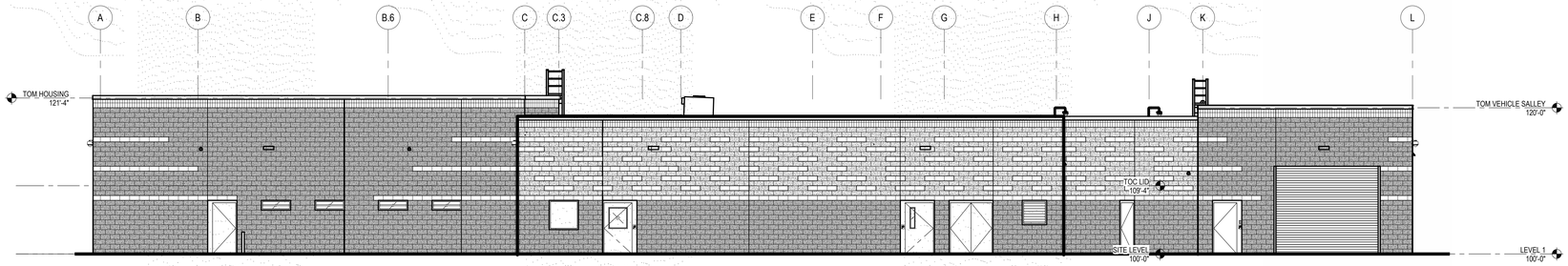
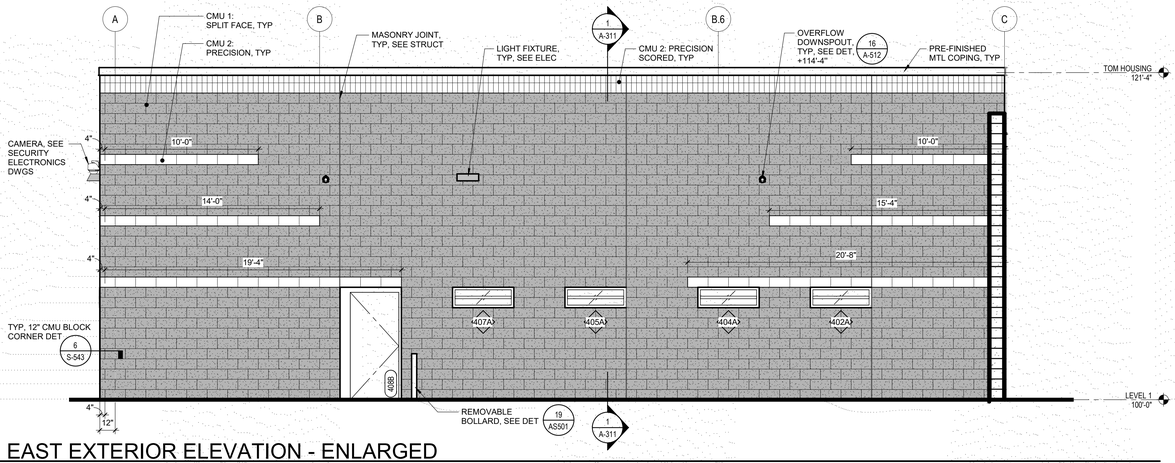


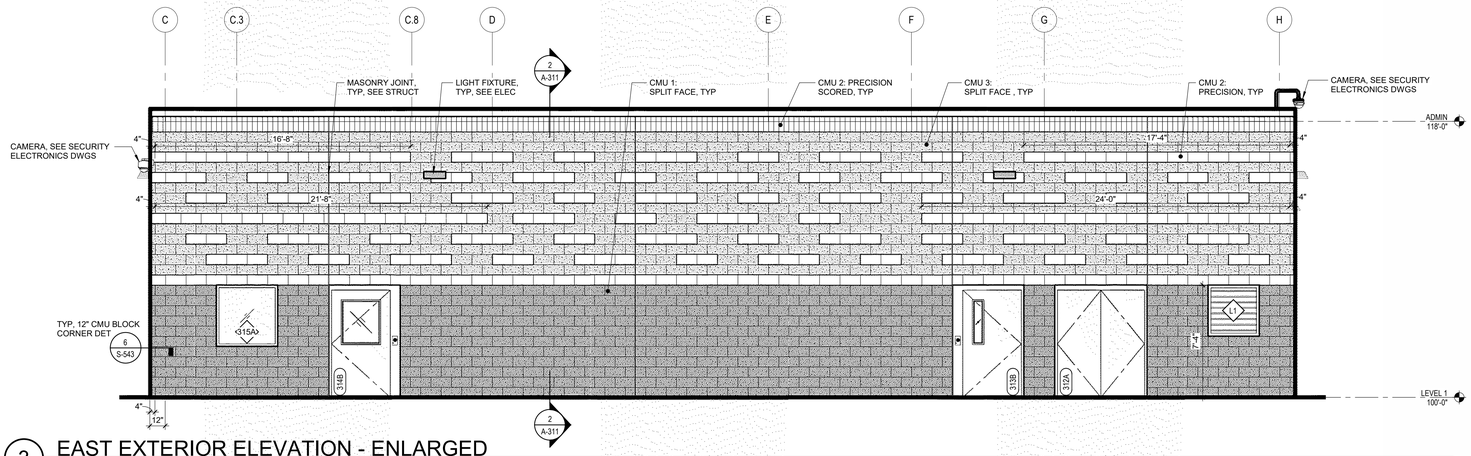
1 EAST EXTERIOR ELEVATION - OVERALL

1/8" = 1'-0"



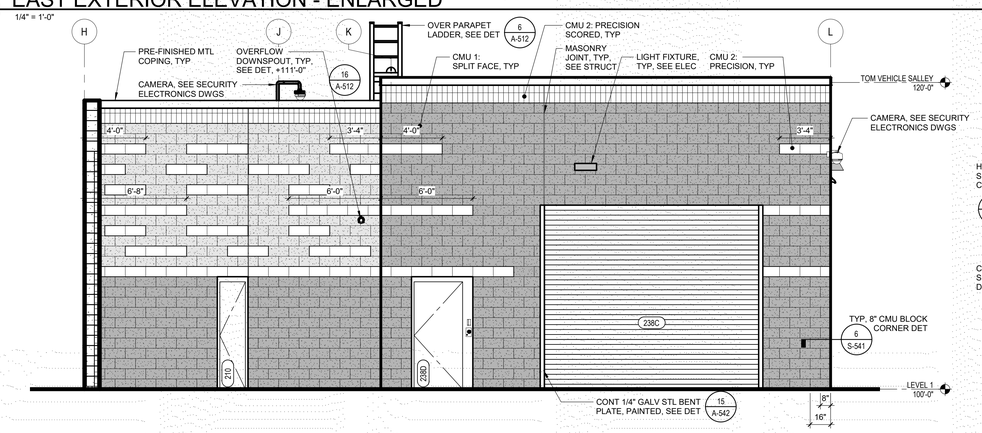
2 EAST EXTERIOR ELEVATION - ENLARGED

1/4" = 1'-0"



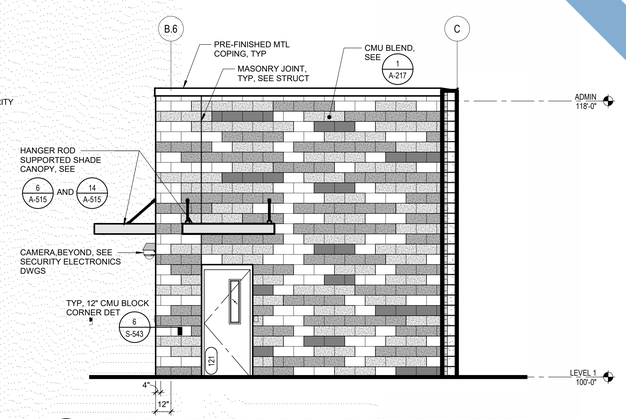
3 EAST EXTERIOR ELEVATION - ENLARGED

1/4" = 1'-0"



4 EAST EXTERIOR ELEVATION - ENLARGED

1/4" = 1'-0"



5 EAST EXTERIOR ELEVATION - ENLARGED

1/4" = 1'-0"

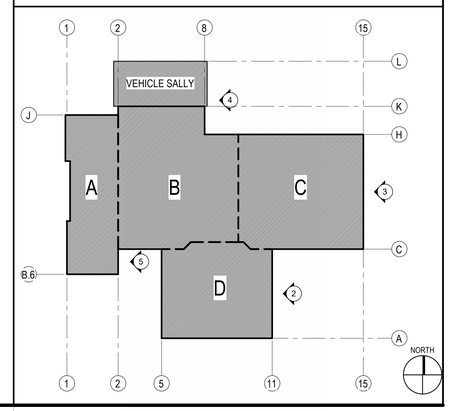
LEGEND

- **CMU 1** SPLIT FACE, RUNNING BOND COLOR# BASALITE 111
- **CMU 4** PRECISION, RUNNING BOND COLOR# BASALITE 112D
- **CMU 2** PRECISION, RUNNING BOND COLOR# BASALITE W-1
- **CEMENT PLASTER SYSTEM** COLOR# TBD BY ARCHITECT
- **CMU 3** SPLIT FACE, RUNNING BOND COLOR# BASALITE NAT
- **MTL WALL PANEL** SEE 5 / A-215
- **CMU 2** PRECISION THREE SCORED, RUNNING BOND COLOR# BASALITE W-1

NOTES:

1. WHERE EQUIPMENT IS SHOWN TO BE MOUNTED TO EXTERIOR SPLIT-FACED CMU PROVIDE PRECISION CMU OF THE SAME COLOR TO COVER THE EQUIPMENT HEIGHT AND WIDTH.
2. PROVIDE PRECISION CMU BLOCK ON INTERIOR FACE OF REC YARD WALLS UP TO SECURITY SCREEN. PROVIDE WATER REPELLENT COATING ON WALLS.
3. WATER REPELLENT COATING TO BE APPLIED ON EXTERIOR SURFACE OF ALL EXTERIOR CMU BLOCK. PROVIDE ADDITIONAL COATING FOR ANTI-GRAFFITI WHERE NOTED ON ELEVATIONS
4. ALL CMU PATTERNS SHALL BE IN COMPLIANCE WITH CMU MOCK UP WALL, AS APPROVED BY ARCHITECT. FOR CMU MOCK UP WALL, SEE SHEET A-711.
5. ALL EXPOSED CONTROL JOINTS IN INMATE ACCESSIBLE AREAS SHALL RECEIVE SECURITY SEALANT

KEY PLAN



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GOVMOTUS No:22-N-3854-CP-DR

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SEAL

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
ELEVATIONS - EXTERIOR - EAST

SHEET
A-213

V1

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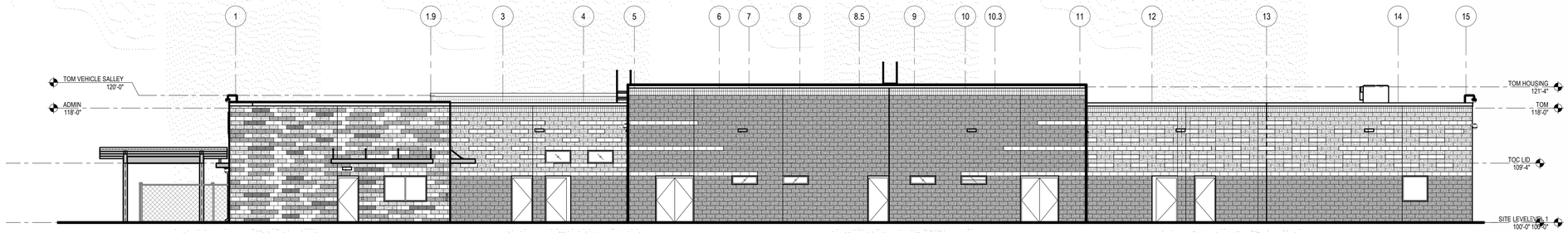
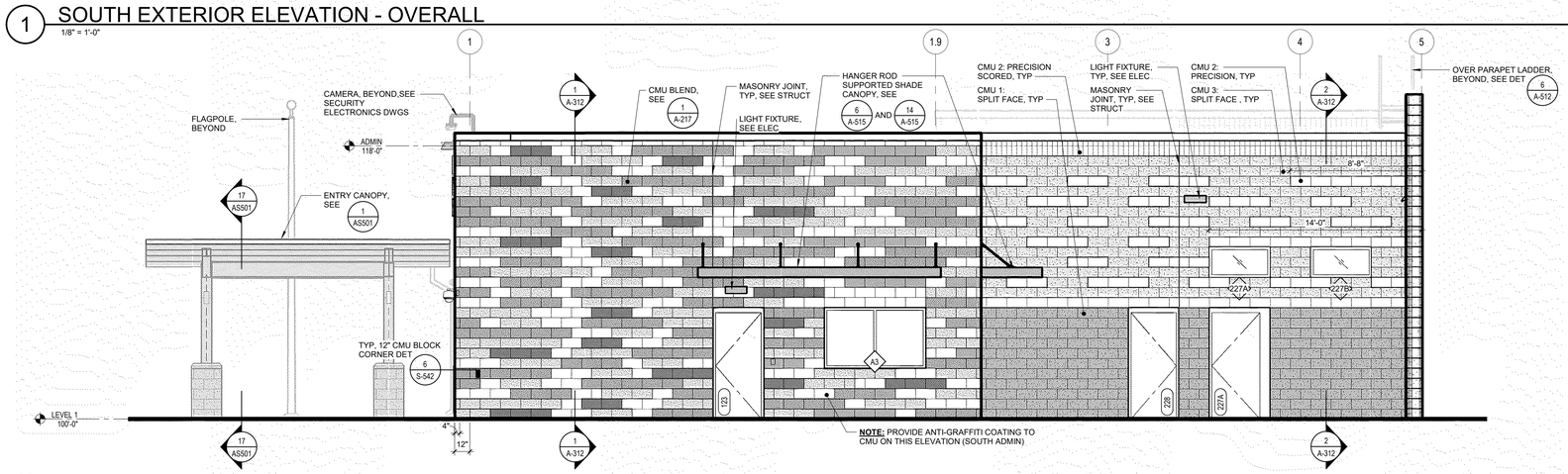
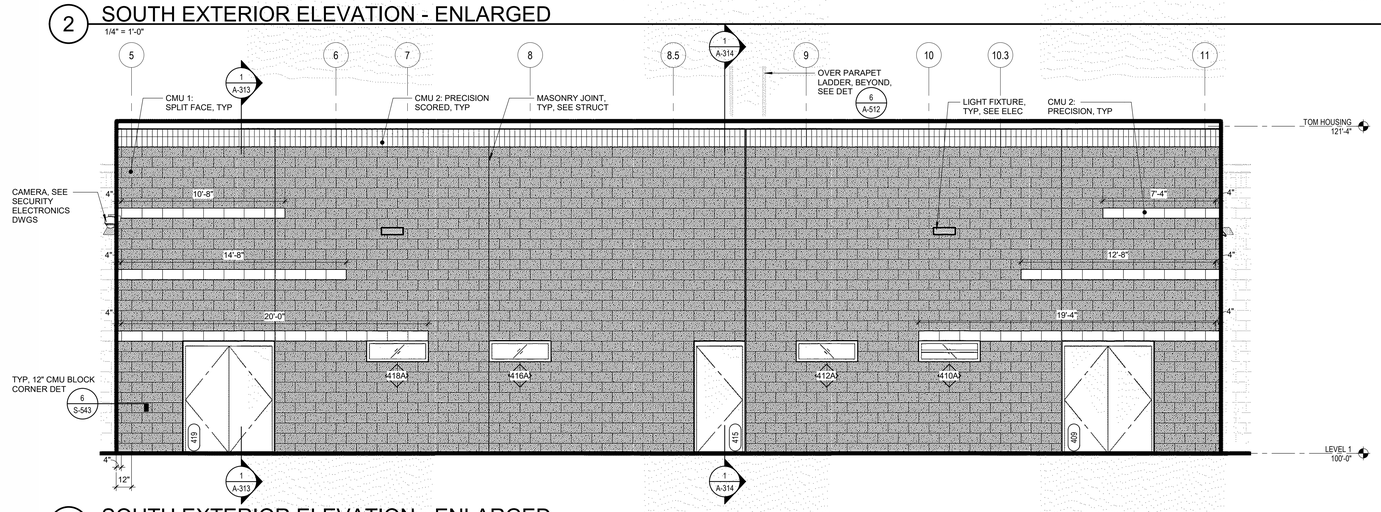


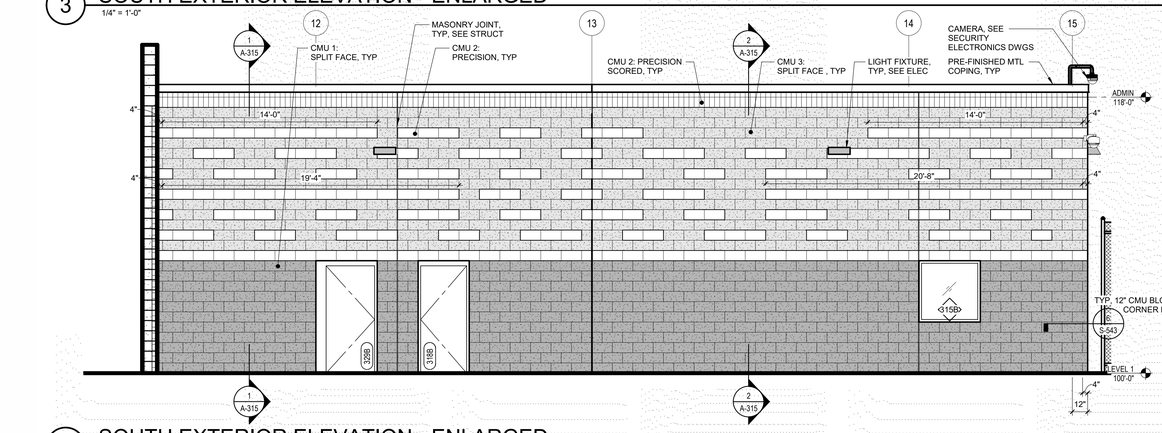
1 SOUTH EXTERIOR ELEVATION - OVERALL
1/8" = 1'-0"



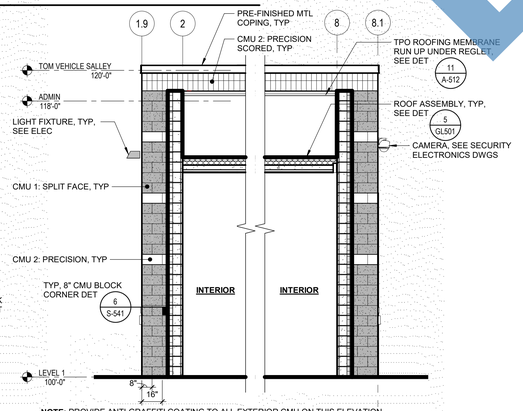
2 SOUTH EXTERIOR ELEVATION - ENLARGED
1/4" = 1'-0"



3 SOUTH EXTERIOR ELEVATION - ENLARGED
1/4" = 1'-0"



4 SOUTH EXTERIOR ELEVATION - ENLARGED
1/4" = 1'-0"



NOTE: PROVIDE ANTI-GRAFFITI COATING TO ALL EXTERIOR CMU ON THIS ELEVATION

5 SOUTH EXTERIOR ELEVATION - ENLARGED
1/4" = 1'-0" ELEVATION ON EAST SIDE OF BUILDING OPP

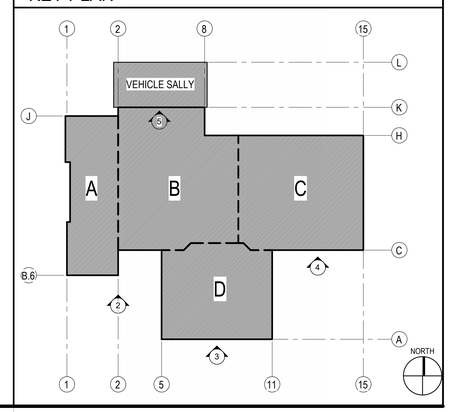
LEGEND

- **CMU 1** SPLIT FACE, RUNNING BOND COLOR# BASALITE 111
- **CMU 4** PRECISION, RUNNING BOND COLOR# BASALITE 112D
- **CMU 2** PRECISION, RUNNING BOND COLOR# BASALITE W-1
- **CEMENT PLASTER SYSTEM** COLOR# TBD BY ARCHITECT
- **CMU 3** SPLIT FACE, RUNNING BOND COLOR# BASALITE NAT
- **MTL WALL PANEL** SEE 5 A-215
- **CMU 2** PRECISION THREE SCORED, RUNNING BOND COLOR# BASALITE W-1

NOTES:

1. WHERE EQUIPMENT IS SHOWN TO BE MOUNTED TO EXTERIOR SPLIT-FACED CMU PROVIDE PRECISION CMU OF THE SAME COLOR TO COVER THE EQUIPMENT HEIGHT AND WIDTH.
2. PROVIDE PRECISION CMU BLOCK ON INTERIOR FACE OF REC YARD WALLS UP TO SECURITY SCREEN. PROVIDE WATER REPELLENT COATING ON WALLS.
3. WATER REPELLENT COATING TO BE APPLIED ON EXTERIOR SURFACE OF ALL EXTERIOR CMU BLOCK. PROVIDE ADDITIONAL COATING FOR ANTI-GRAFFITI WHERE NOTED ON ELEVATIONS
4. ALL CMU PATTERNS SHALL BE IN COMPLIANCE WITH CMU MOCK UP WALL, AS APPROVED BY ARCHITECT. FOR CMU MOCK UP WALL, SEE SHEET A-711.
5. ALL EXPOSED CONTROL JOINTS IN INMATE ACCESSIBLE AREAS SHALL RECEIVE SECURITY SEALANT

KEY PLAN



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SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
ELEVATIONS - EXTERIOR - SOUTH

SHEET
A-214

V1

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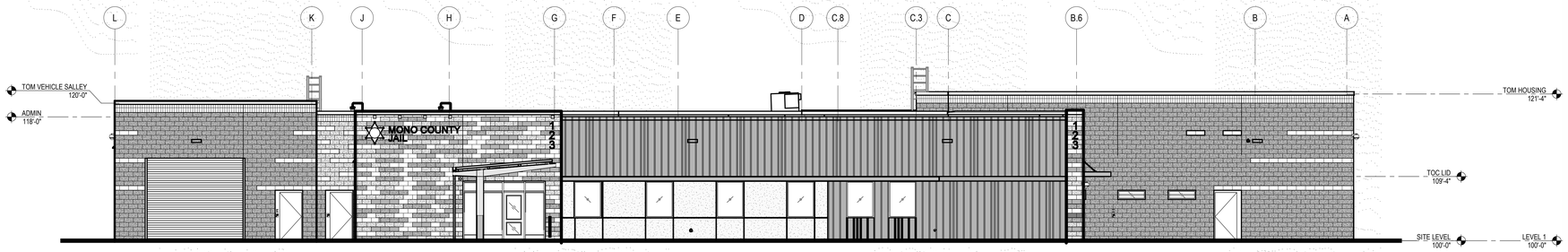
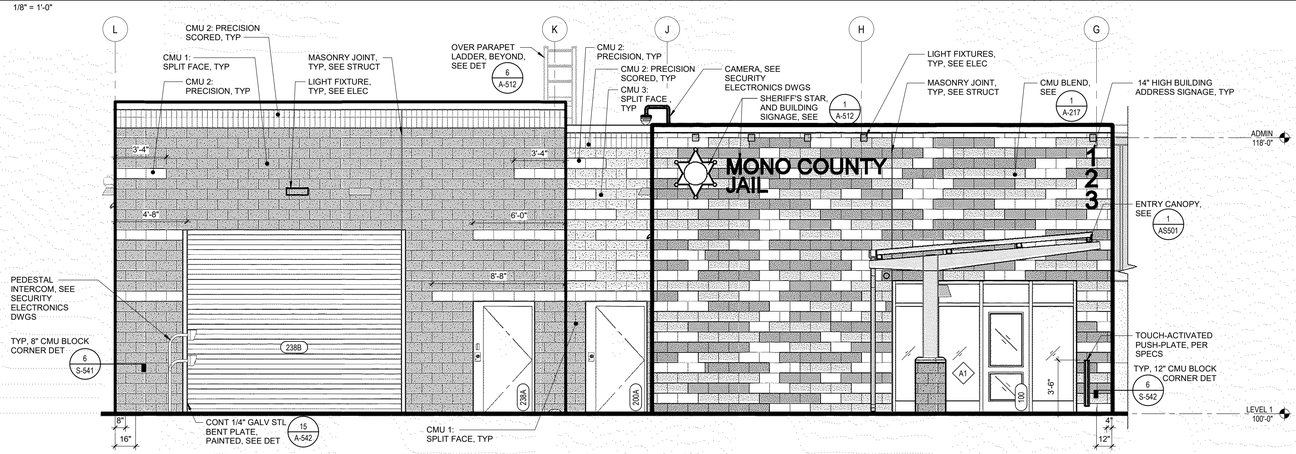
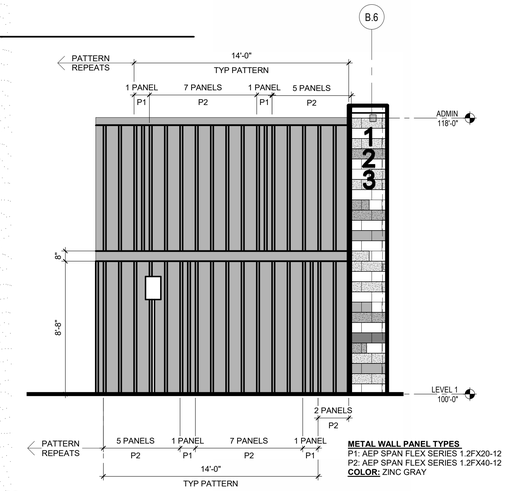


1 WEST EXTERIOR ELEVATION - OVERALL **NOTE:** PROVIDE ANTI-GRAFFITI COATING TO ALL CMU ON THIS ELEVATION
1/8" = 1'-0"

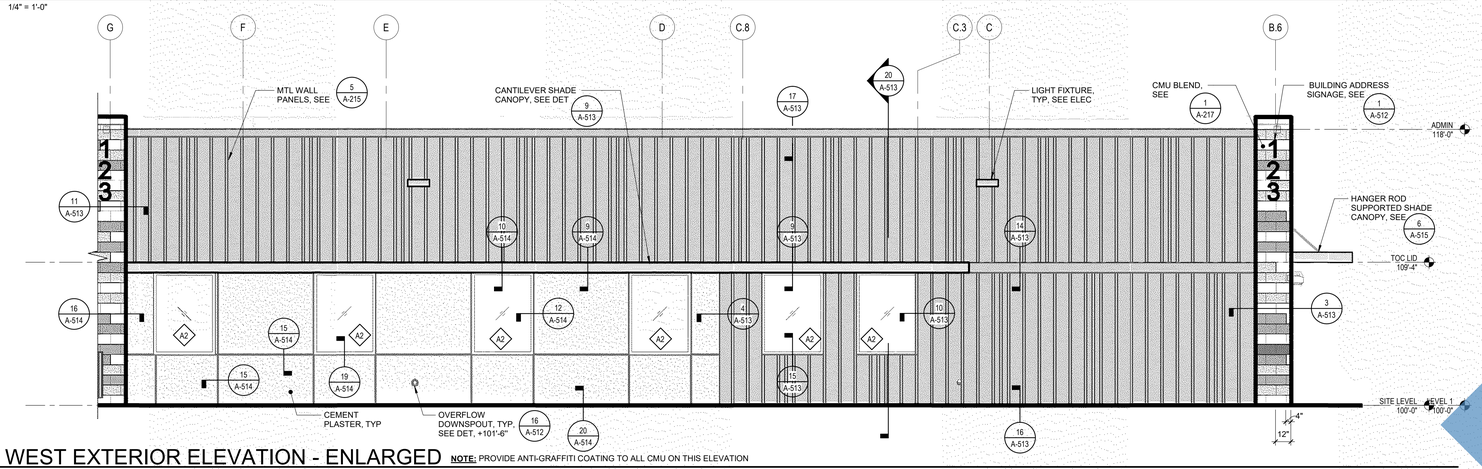


2 WEST EXTERIOR ELEVATION - ENLARGED **NOTE:** PROVIDE ANTI-GRAFFITI COATING TO ALL CMU ON THIS ELEVATION
1/4" = 1'-0"

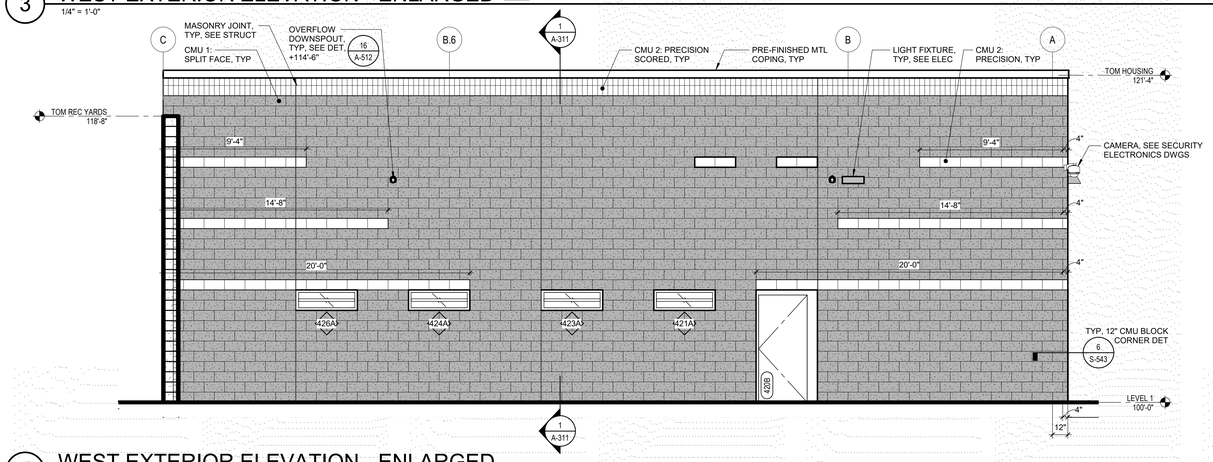


METAL WALL PANEL TYPES
P1: AEP SPAN FLEX SERIES 1.2FX20-12
P2: AEP SPAN FLEX SERIES 1.2FX40-12
COLOR: ZINC GRAY

5 METAL WALL PANEL PATTERN
1/4" = 1'-0"



3 WEST EXTERIOR ELEVATION - ENLARGED **NOTE:** PROVIDE ANTI-GRAFFITI COATING TO ALL CMU ON THIS ELEVATION
1/4" = 1'-0"



4 WEST EXTERIOR ELEVATION - ENLARGED
1/4" = 1'-0"

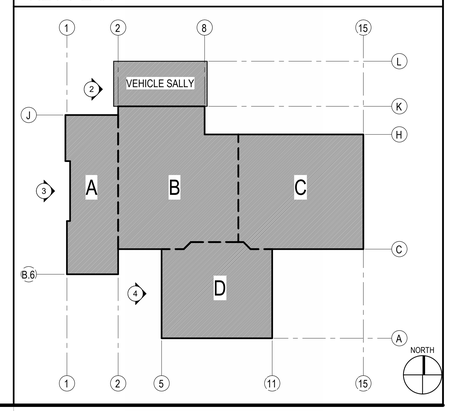
LEGEND

- **CMU 1** SPLIT FACE, RUNNING BOND COLOR# BASALITE 111
- **CMU 2** PRECISION, RUNNING BOND COLOR# BASALITE W-1
- **CMU 3** SPLIT FACE, RUNNING BOND COLOR# BASALITE NAT
- **CMU 2** PRECISION THREE SCORED, RUNNING BOND COLOR# BASALITE W-1
- **CMU 4** PRECISION, RUNNING BOND COLOR# BASALITE 112D
- **CEMENT PLASTER SYSTEM** COLOR# TBD BY ARCHITECT
- **MTL WALL PANEL** SEE 5/A-215

NOTES:

1. WHERE EQUIPMENT IS SHOWN TO BE MOUNTED TO EXTERIOR SPLIT-FACED CMU PROVIDE PRECISION CMU OF THE SAME COLOR TO COVER THE EQUIPMENT HEIGHT AND WIDTH.
2. PROVIDE PRECISION CMU BLOCK ON INTERIOR FACE OF REC YARD WALLS UP TO SECURITY SCREEN. PROVIDE WATER REPELLENT COATING ON WALLS.
3. WATER REPELLENT COATING TO BE APPLIED ON EXTERIOR SURFACE OF ALL EXTERIOR CMU BLOCK. PROVIDE ADDITIONAL COATING FOR ANTI-GRAFFITI WHERE NOTED ON ELEVATIONS
4. ALL CMU PATTERNS SHALL BE IN COMPLIANCE WITH CMU MOCK UP WALL, AS APPROVED BY ARCHITECT. FOR CMU MOCK UP WALL, SEE SHEET A-711.
5. ALL EXPOSED CONTROL JOINTS IN INMATE ACCESSIBLE AREAS SHALL RECEIVE SECURITY SEALANT

KEY PLAN



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221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
ELEVATIONS - EXTERIOR - WEST

SHEET
A-215

V1

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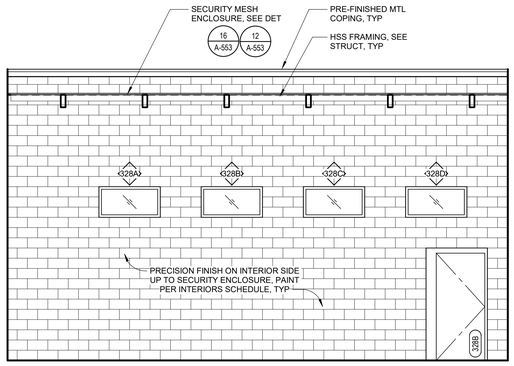
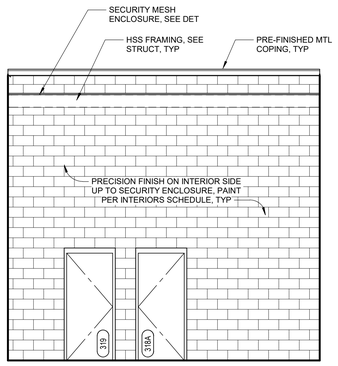
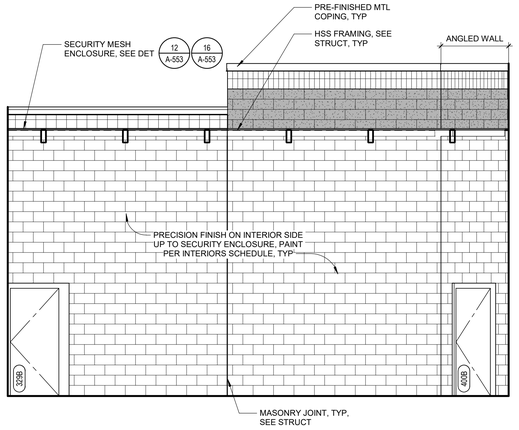


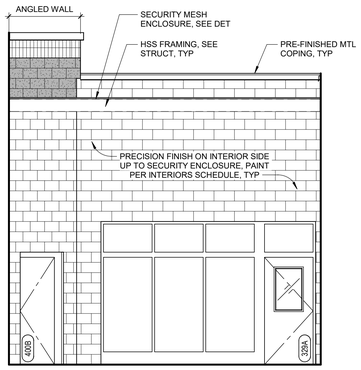
1 REC YARD ELEVATION - NORTH
1/4" = 1'-0"



2 REC YARD ELEVATION - EAST
1/4" = 1'-0"



3 REC YARD ELEVATION - SOUTH
1/4" = 1'-0"



4 REC YARD ELEVATION - WEST
1/4" = 1'-0"

LEGEND

CMU 1
SPLIT FACE, RUNNING BOND
COLOR# BASALITE 111

CMU 2
PRECISION, RUNNING BOND
COLOR# BASALITE W-1

CMU 3
SPLIT FACE, RUNNING BOND
COLOR# BASALITE NAT

CMU 2
PRECISION THREE SCORED, RUNNING BOND
COLOR# BASALITE W-1

CMU 4
PRECISION, RUNNING BOND
COLOR# BASALITE 112D

CEMENT PLASTER SYSTEM
COLOR# TBD BY ARCHITECT

MTL WALL PANEL
SEE 5 A-215

NOTES:

1. WHERE EQUIPMENT IS SHOWN TO BE MOUNTED TO EXTERIOR SPLIT-FACED CMU PROVIDE PRECISION CMU OF THE SAME COLOR TO COVER THE EQUIPMENT HEIGHT AND WIDTH.
2. PROVIDE PRECISION CMU BLOCK ON INTERIOR FACE OF REC YARD WALLS UP TO SECURITY SCREEN. PROVIDE WATER REPELLENT COATING ON WALLS.
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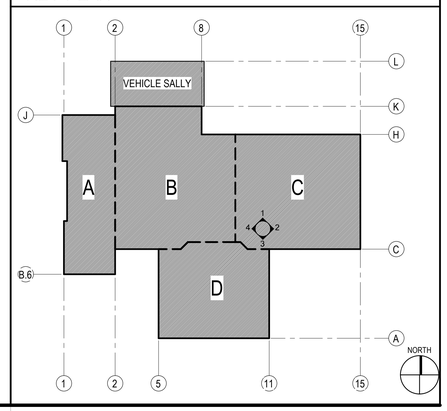
4. ALL CMU PATTERNS SHALL BE IN COMPLIANCE WITH CMU MOCK UP WALL, AS APPROVED BY ARCHITECT. FOR CMU MOCK UP WALL, SEE SHEET A-711.
5. ALL EXPOSED CONTROL JOINTS IN INMATE ACCESSIBLE AREAS SHALL RECEIVE SECURITY SEALANT

KEY PLAN



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SEPTEMBER 11, 2023

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TITLE
ELEVATIONS - EXTERIOR - REC YARDS

SHEET
A-216
V1

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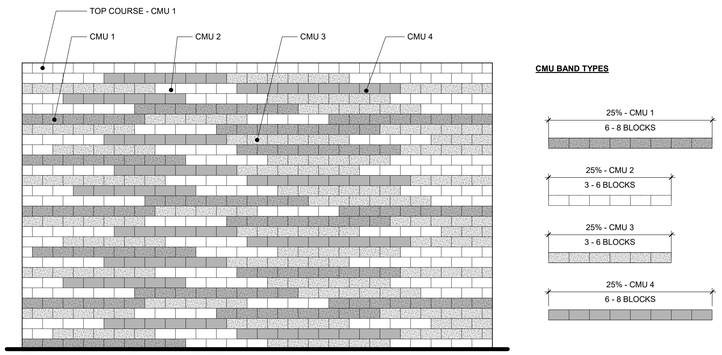
NOTE: RENDERING USED TO ILLUSTRATE DESIGN INTENT

5 CMU MIX BLEND PATTERN - RENDERING
3/8" = 1'-0"

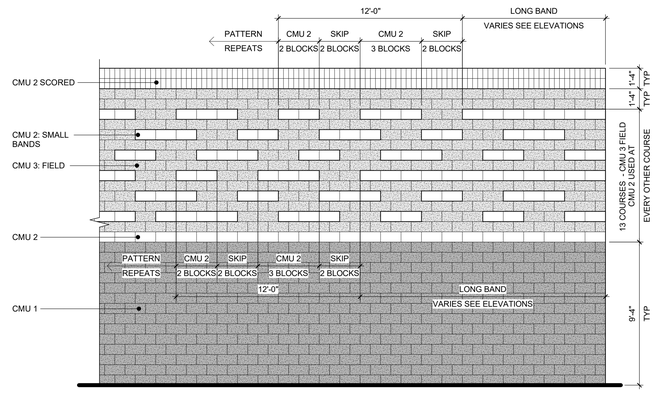
NOTE: RENDERING USED TO ILLUSTRATE DESIGN INTENT

6 CMU PATTERN - RANDOM SHORT BANDS RENDERINGS
3/8" = 1'-0"

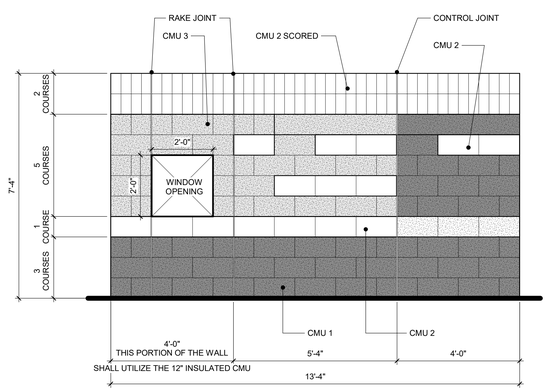


NOTE: ELEVATION USED TO ILLUSTRATE DESIGN INTENT

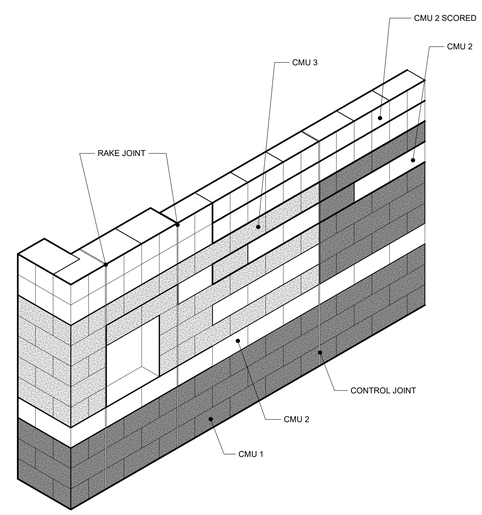
1 CMU MIX BLEND PATTERN
1/4" = 1'-0"



2 CMU PATTERN - RANDOM SHORT BANDS
1/4" = 1'-0"



3 CMU WALL MOCK UP - ELEVATION
1/2" = 1'-0"



4 CMU WALL MOCK UP - AXONOMETRIC
1/2" = 1'-0"

LEGEND

- **CMU 1** SPLIT FACE, RUNNING BOND COLOR# BASALITE 111
- **CMU 2** PRECISION, RUNNING BOND COLOR# BASALITE W-1
- **CMU 3** SPLIT FACE, RUNNING BOND COLOR# BASALITE NAT
- **CMU 2** PRECISION THREE SCORED, RUNNING BOND COLOR# BASALITE W-1
- **CMU 4** PRECISION, RUNNING BOND COLOR# BASALITE 112D
- **CEMENT PLASTER SYSTEM** COLOR# TBD BY ARCHITECT
- **MTL WALL PANEL** SEE 5 / A-215

NOTES:

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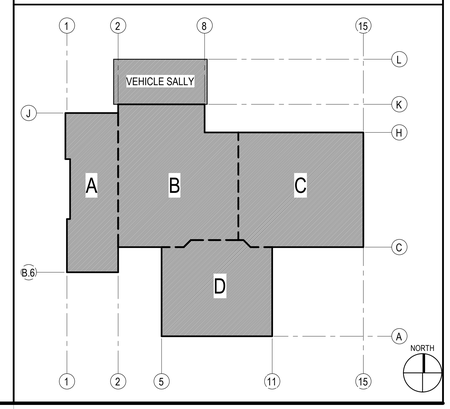
5. ALL EXPOSED CONTROL JOINTS IN INMATE ACCESSIBLE AREAS SHALL RECEIVE SECURITY SEALANT

Draft

KEY PLAN



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CONSULTANT

SEAL

LICENSED ARCHITECT
MICHAEL J. DAVIS
C227266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
ELEVATIONS - EXTERIOR - CMU PATTERNS AND MOCK WALL

SHEET
A-217

V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
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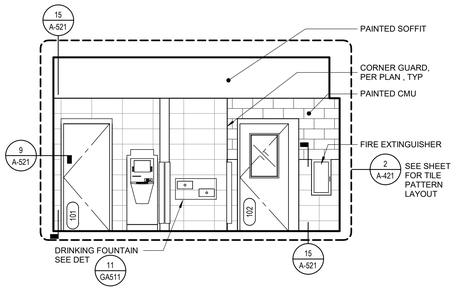
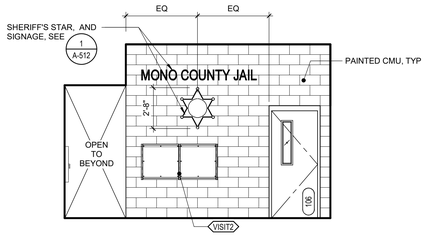
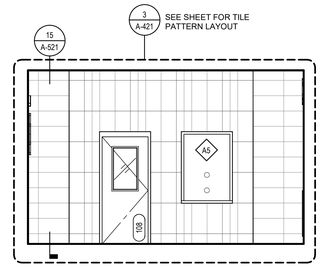


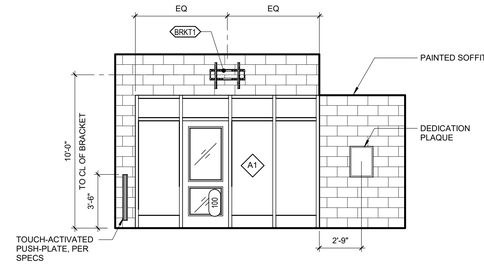
1 100 - LOBBY (NORTH)
SCALE 1/4" = 1'-0"



2 100 - LOBBY (EAST)
SCALE 1/4" = 1'-0"



3 100 - LOBBY (SOUTH)
SCALE 1/4" = 1'-0"



4 100 - LOBBY (WEST)
SCALE 1/4" = 1'-0"

SHEET NOTES

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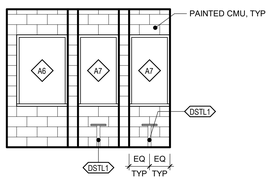
3. AT METAL STUD WALLS, LOCATE DOOR JAMBS 4" AWAY FROM ADJACENT WALL, UON .ALL DOORS LOCATED IN MASONRY ARE 8 INCHES FROM ADJACENT WALL OR SHOWN FLUSH WITH ADJACENT WALL, UON.
4. REFER TO STRUCTURAL DRAWINGS, DETAILS AND SCHEDULES FOR STRUCTURAL DIMENSIONS NOT SHOWN. BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES OR CONFLICTS.
5. FOR ROOM FINISH SCHEDULE SEE I-641. FOR FLOOR FINISH PLANS SEE SHEETS I-111A, I-111B, I-111C AND I-111D.
6. FOR DOOR TYPES, DOOR SCHEDULE AND SIGNAGE SEE A-621, A-622 AND A-623.
7. FOR WINDOW TYPES AND WINDOW SCHEDULE SEE A-631 AND A-632.
8. ALL JOINTS OR GAPS OF 1/32" OR GREATER IN CONSTRUCTION OR BETWEEN CONSTRUCTION AND EQUIPMENT SHALL BE FILLED WITH SEALANT. PROVIDE SECURITY SEALANT IN INMATE ACCESSIBLE AREAS.
9. WITHIN INMATE AREAS, PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL FLOOR AND WALL MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES, EQUIPMENT, AND AROUND ALL DOORS AND WINDOWS.
10. FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT SEE SHEETS A-532 AND A-533.
11. SEE GA SERIES OF SHEETS FOR TYPICAL PLUMBING FIXTURE, ACCESSIBILITY CLEARANCES AND ACCESSORY MOUNTING HEIGHTS AND LOCATIONS.
12. CASEWORK TYPE DENOTES FINISHES AT CABINETS AND/OR COUNTERS. SEE FINISH LEGEND I-641 FOR TYPES.
13. DIMENSIONS FOR CASEWORK INCLUDE A WI # WHICH REFERENCES THE WOODWORK INSTITUTE MANUAL OF MILLWORK. THE WI # REFERS TO THE STYLE OF CABINET. FOR TYPICAL DETAILS SEE SHEET A-561.
14. COUNTER TOPS TO BE 2'-0" DEEP, UON. UPPER CABINETS TO BE 1'-0" DEEP, UON.
15. SEE SHEET A-611 FOR ACCESSORY, FURNISHINGS, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE.



5 104 - VISIT (EAST)
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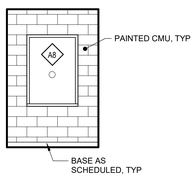

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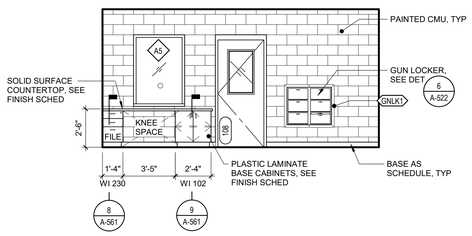
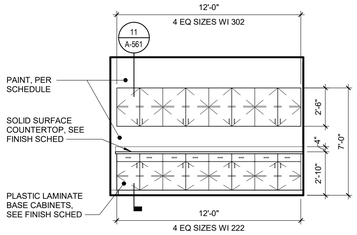
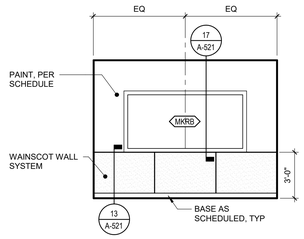


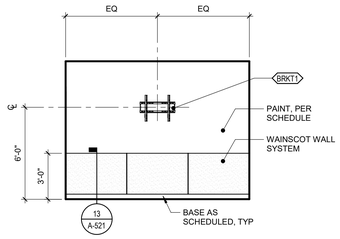
7 108 - ADMIN (NORTH)
SCALE 1/4" = 1'-0"



8 108 - ADMIN (SOUTH)
SCALE 1/4" = 1'-0"



9 110 - CONFERENCE (NORTH)
SCALE 1/4" = 1'-0"



10 110 - CONFERENCE (SOUTH)
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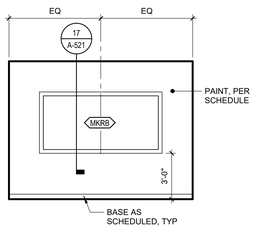
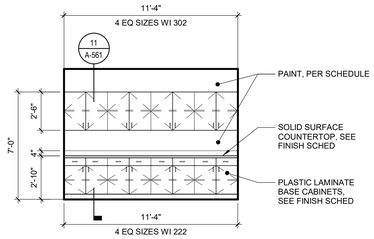
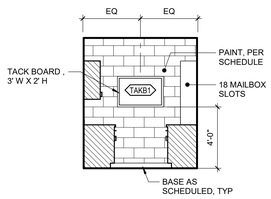


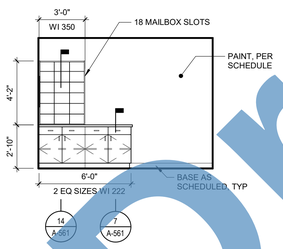
11 112 - LT OFFICE (SOUTH)
SCALE 1/4" = 1'-0"



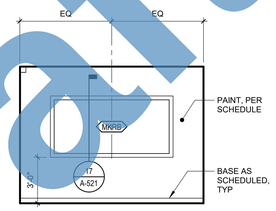
12 113 - WORK ROOM (NORTH)
SCALE 1/4" = 1'-0"



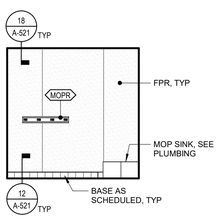
13 113 - WORK ROOM (EAST)
SCALE 1/4" = 1'-0"



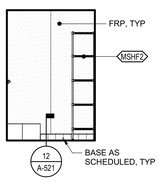
14 113 - WORK ROOM (SOUTH)
SCALE 1/4" = 1'-0"



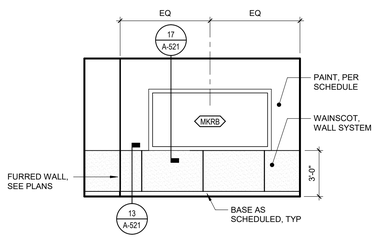
15 114 - SGT OFFICE (NORTH)
SCALE 1/4" = 1'-0"



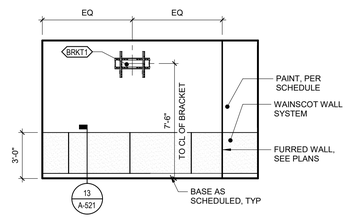
16 116 - JANITOR (NORTH)
SCALE 1/4" = 1'-0"



17 116 - JANITOR (EAST)
SCALE 1/4" = 1'-0"

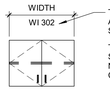


18 117 - TRAINING (NORTH)
SCALE 1/4" = 1'-0"



19 117 - TRAINING (SOUTH)
SCALE 1/4" = 1'-0"

CASEWORK LEGEND

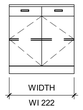


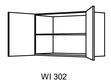
THE CASEWORK IS LABELED PER THE NORTH AMERICAN ARCHITECTURAL WOODWORK STANDARDS MANUAL (NAAWS 4.0) SPONSORED BY THE WOODWORK INSTITUTE.

THE MANUAL CONTAINS AN APPENDIX WITH THE CABINET DESIGN SERIES (CDS) WHERE EACH STYLE HAS A UNIQUE IDENTIFYING NUMBER WITH AN ILLUSTRATION OF THE CABINET CONFIGURATION.

CABINET DIMENSIONS ARE SHOWN ON THE CONSTRUCTION DRAWINGS. ADDITIONAL CONSTRUCTION INFORMATION IS LOCATED IN THE SPECIFICATIONS.

CASEWORK CONSTRUCTION SHALL BE PER APPLICABLE WI NAAWS 4.0 CONSTRUCTION STANDARDS. ANCHORAGE TO SUPPORTING STRUCTURE SHALL BE PER CONSTRUCTION DOCUMENTATION.





LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

GOVMOTUS No:22-N-3854-CP-DR

AGENCY

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TITLE
ELEVATIONS - INTERIOR

SHEET
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V1

Draft

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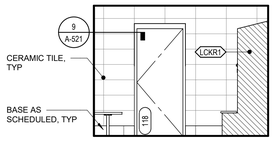
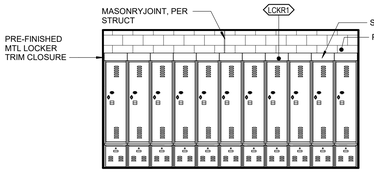


1 120 - LOCKERS (NORTH)
SCALE 1/4" = 1'-0"



2 120 - LOCKERS (EAST)
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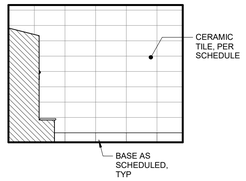

3 120 - LOCKERS (SOUTH)
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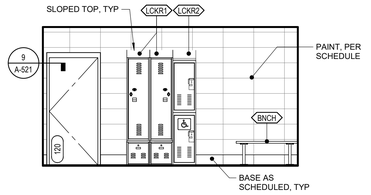

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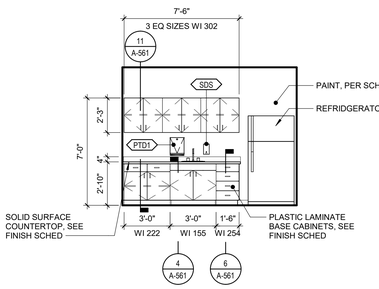
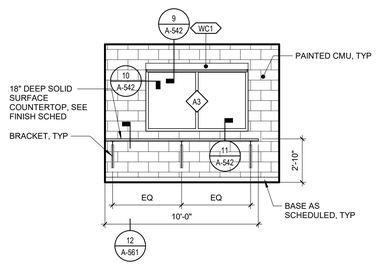
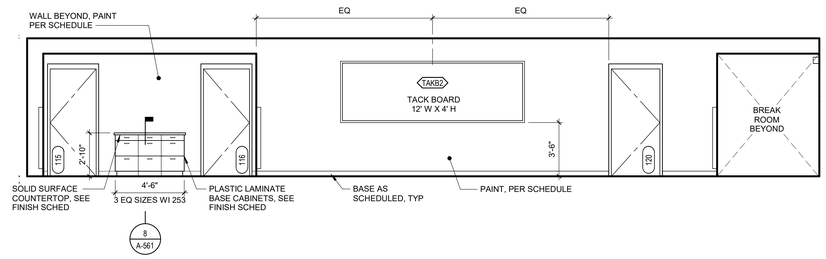


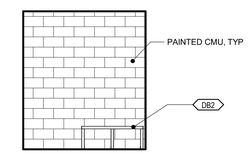
5 121 - BREAK (NORTH)
SCALE 1/4" = 1'-0"



6 121 - BREAK (SOUTH)
SCALE 1/4" = 1'-0"



7 123 - ADMIN CORRIDOR (EAST)
SCALE 1/4" = 1'-0"



8 202 - RELEASE (EAST)
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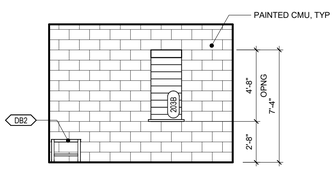

9 202 - RELEASE (SOUTH)
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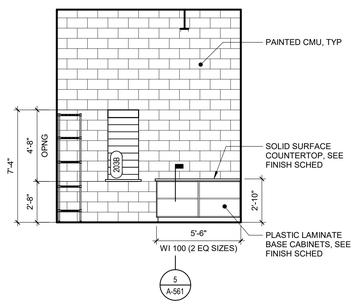

10 203 - PROPERTY (NORTH)
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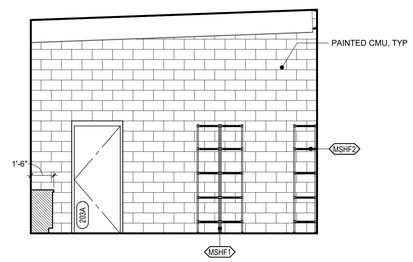

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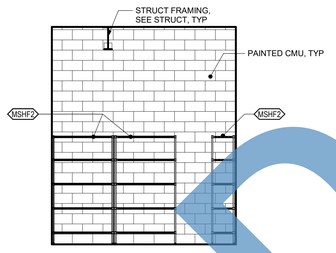

12 203 - PROPERTY (SOUTH)
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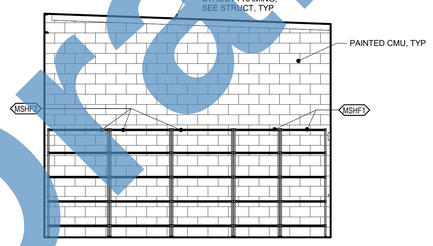
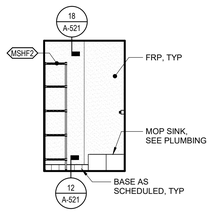
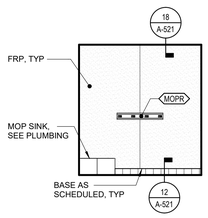


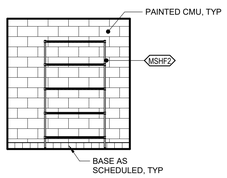
13 203 - PROPERTY (WEST)
SCALE 1/4" = 1'-0"



14 204 - JANITOR (NORTH)
SCALE 1/4" = 1'-0"

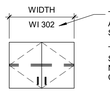


15 204 - JANITOR (EAST)
SCALE 1/4" = 1'-0"



16 204 - JANITOR (WEST)
SCALE 1/4" = 1'-0"

CASEWORK LEGEND



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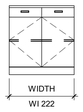

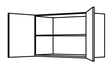

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Sacramento CA 95818
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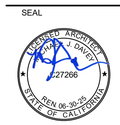

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE
ELEVATIONS - INTERIOR

SHEET
A-222

V1

Draft

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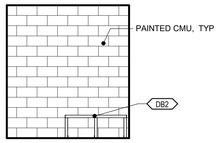
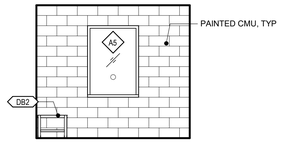
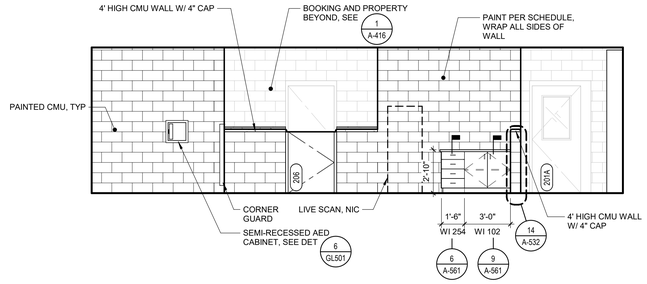


1 207 - SEARCH (EAST)
SCALE 1/4" = 1'-0"



2 207 - SEARCH (SOUTH)
SCALE 1/4" = 1'-0"



3 208 - PROCESS (WEST)
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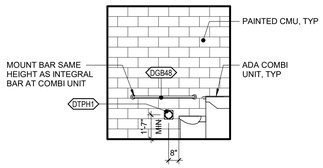
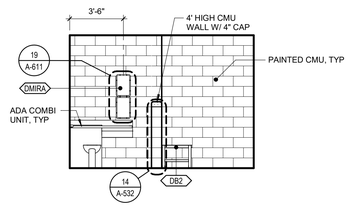
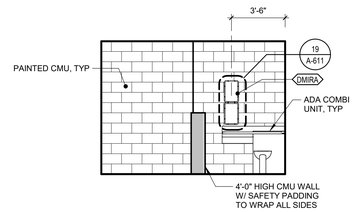


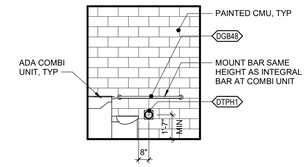
4 209 - HOLD (EAST)
SCALE 1/4" = 1'-0"



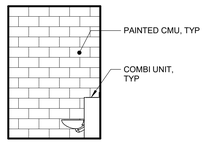
5 209 - HOLD (SOUTH)
SCALE 1/4" = 1'-0"



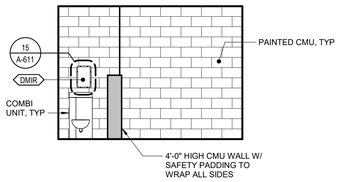
6 211 - SOBER HOLD (NORTH)
SCALE 1/4" = 1'-0"



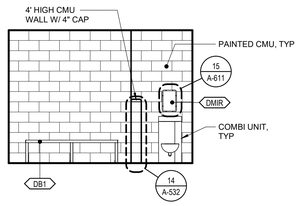
7 211 - SOBER HOLD (EAST)
SCALE 1/4" = 1'-0"



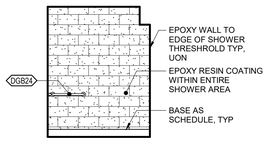
9 212 - SOBER HOLD (EAST)
SCALE 1/4" = 1'-0"



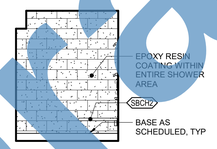
10 212 - SOBER HOLD (SOUTH)
SCALE 1/4" = 1'-0"



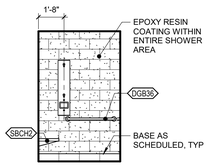
12 213 - HOLD (NORTH)
SCALE 1/4" = 1'-0"



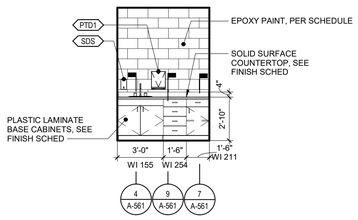
13 216 - SHOWER (NORTH)
SCALE 1/4" = 1'-0"



14 216 - SHOWER (SOUTH)
SCALE 1/4" = 1'-0"



15 216 - SHOWER (WEST)
SCALE 1/4" = 1'-0"



16 217 - ANTE (NORTH)
SCALE 1/4" = 1'-0"

SHEET NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON. EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP
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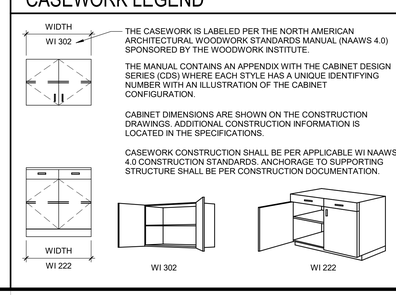
4. REFER TO STRUCTURAL DRAWINGS, DETAILS AND SCHEDULES FOR STRUCTURAL DIMENSIONS NOT SHOWN. BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES OR CONFLICTS.
5. FOR ROOM FINISH SCHEDULE SEE I-641. FOR FLOOR FINISH PLANS SEE SHEETS I-111A, I-111B, I-111C AND I-111D.
6. FOR DOOR TYPES, DOOR SCHEDULE AND SIGNAGE SEE A-621, A-622 AND A-623.
7. FOR WINDOW TYPES AND WINDOW SCHEDULE SEE A-631 AND A-632.
8. ALL JOINTS OR GAPS OF 1/32" OR GREATER IN CONSTRUCTION OR BETWEEN CONSTRUCTION AND EQUIPMENT SHALL BE FILLED WITH SEALANT. PROVIDE SECURITY SEALANT IN INMATE ACCESSIBLE AREAS.
9. WITHIN INMATE AREAS, PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL FLOOR AND WALL MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES, EQUIPMENT, AND AROUND ALL DOORS AND WINDOWS.
10. FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT SEE SHEETS A-532 AND A-533.
11. SEE GA SERIES OF SHEETS FOR TYPICAL PLUMBING FIXTURE, ACCESSIBILITY CLEARANCES AND ACCESSORY MOUNTING HEIGHTS AND LOCATIONS.
12. CASEWORK TYPE DENOTES FINISHES AT CABINETS AND/OR COUNTERS. SEE FINISH LEGEND I-641 FOR TYPES.
13. DIMENSIONS FOR CASEWORK INCLUDE A WI # WHICH REFERENCES THE WOODWORK INSTITUTE MANUAL OF MILLWORK. THE WI # REFERS TO THE STYLE OF CABINET. FOR TYPICAL DETAILS SEE SHEET A-561.
14. COUNTER TOPS TO BE 2'-0" DEEP, UON. UPPER CABINETS TO BE 1'-0" DEEP, UON.
15. SEE SHEET A-611 FOR ACCESSORY, FURNISHINGS, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE.

CASEWORK LEGEND



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PROJECT
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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
ELEVATIONS - INTERIOR

SHEET
A-223
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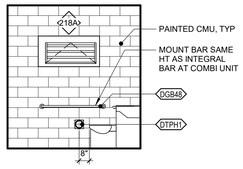
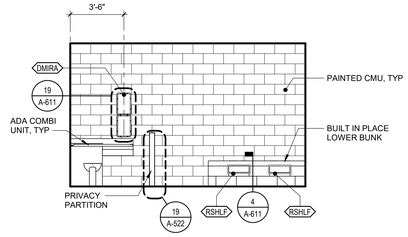


1 218 - ISOLATION (NORTH)
SCALE 1/4" = 1'-0"



2 218 - ISOLATION (EAST)
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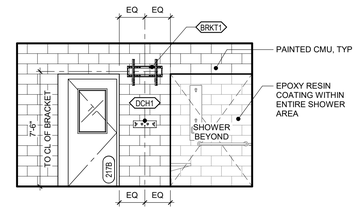
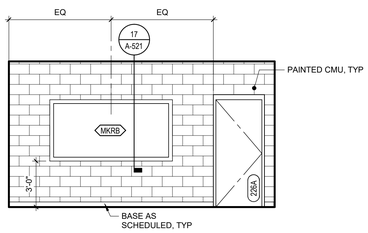
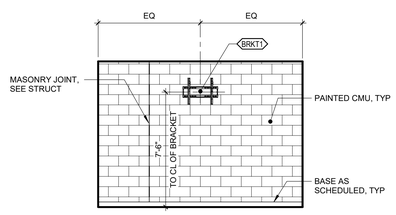


4 218 - ISOLATION (WEST)
SCALE 1/4" = 1'-0"



5 225 - PROGRAM (SOUTH)
SCALE 1/4" = 1'-0"



6 225 - PROGRAM (WEST)
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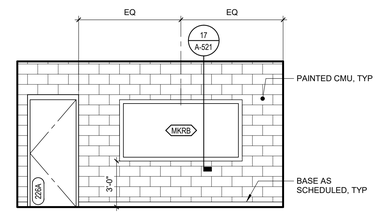

7 226 - PROGRAM (NORTH)
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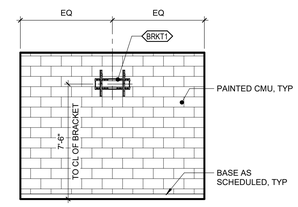

8 226 - PROGRAM (WEST)
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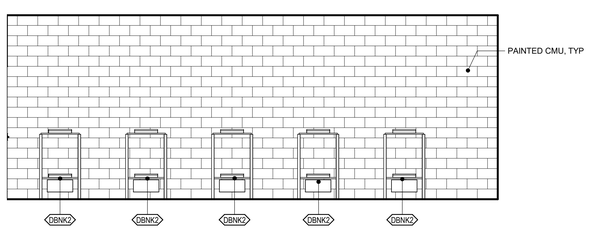

9 227 - 10 BED DORM (NORTH)
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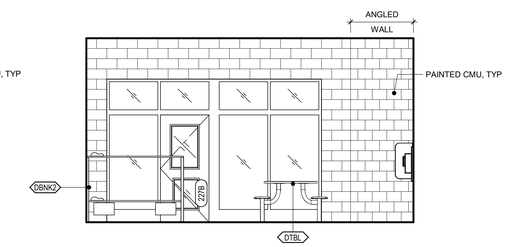

10 227 - 10 BED DORM (EAST)
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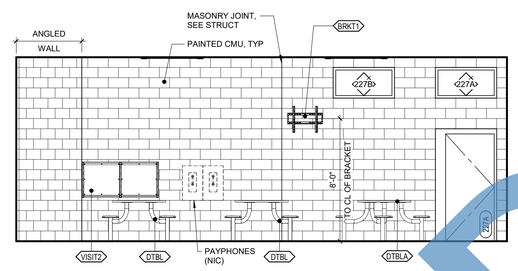
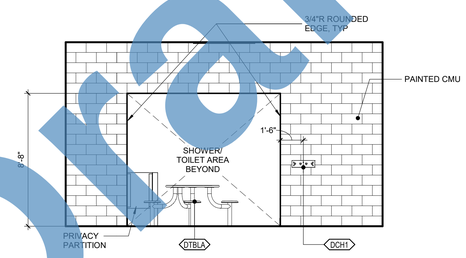
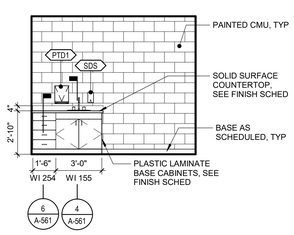


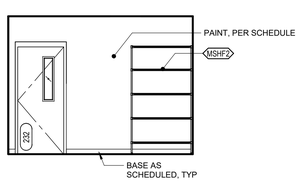
11 227 - 10 BED DORM (SOUTH)
SCALE 1/4" = 1'-0"



12 227 - 10 BED DORM (WEST)
SCALE 1/4" = 1'-0"



13 232 - MEDS/ EQUIP (NORTH)
SCALE 1/4" = 1'-0"



14 232 - MEDS/ EQUIP (EAST)
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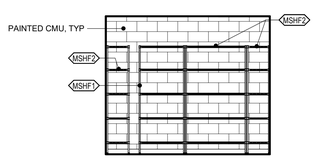

15 232 - MEDS/ EQUIP (SOUTH)
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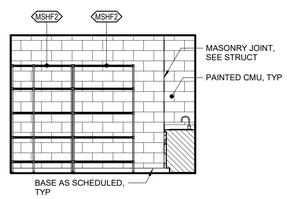

16 232 - MEDS/ EQUIP (WEST)
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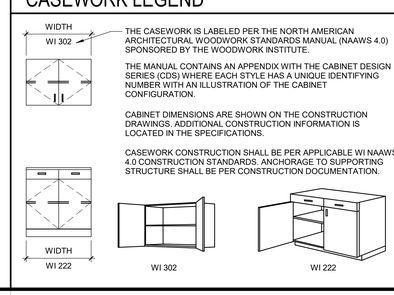
5. FOR ROOM FINISH SCHEDULE SEE I-641. FOR FLOOR FINISH PLANS SEE SHEETS I-111A, I-111B, I-111C AND I-111D.
6. FOR DOOR TYPES, DOOR SCHEDULE AND SIGNAGE SEE A-621, A-622 AND A-623.
7. FOR WINDOW TYPES AND WINDOW SCHEDULE SEE A-631 AND A-632.
8. ALL JOINTS OR GAPS OF 1/32" OR GREATER IN CONSTRUCTION OR BETWEEN CONSTRUCTION AND EQUIPMENT SHALL BE FILLED WITH SEALANT. PROVIDE SECURITY SEALANT IN INMATE ACCESSIBLE AREAS.
9. WITHIN INMATE AREAS, PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL FLOOR AND WALL MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES, EQUIPMENT, AND AROUND ALL DOORS AND WINDOWS.
10. FOR ALL INTERIOR NON-STRUCTURAL STUD FRAMING AND FOR TYP BACKING/BLOCKING AT VARIOUS FIXTURES, ACCESSORIES, AND EQUIPMENT SEE SHEETS A-532 AND A-533.
11. SEE GA SERIES OF SHEETS FOR TYPICAL PLUMBING FIXTURE, ACCESSIBILITY CLEARANCES AND ACCESSORY MOUNTING HEIGHTS AND LOCATIONS.
12. CASEWORK TYPE DENOTES FINISHES AT CABINETS AND/OR COUNTERS. SEE FINISH LEGEND I-641 FOR TYPES.
13. DIMENSIONS FOR CASEWORK INCLUDE A WI # WHICH REFERENCES THE WOODWORK INSTITUTE MANUAL OF MILLWORK. THE WI # REFERS TO THE STYLE OF CABINET. FOR TYPICAL DETAILS SEE SHEET A-561.
14. COUNTER TOPS TO BE 2'-0" DEEP, UON. UPPER CABINETS TO BE 1'-0" DEEP, UON.
15. SEE SHEET A-611 FOR ACCESSORY, FURNISHINGS, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE.

CASEWORK LEGEND



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Draft

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MANAGEMENT

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TITLE
ELEVATIONS - INTERIOR

SHEET
A-224
V1

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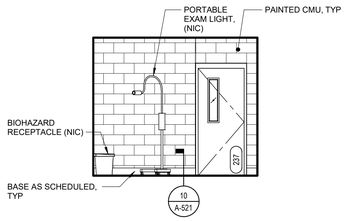
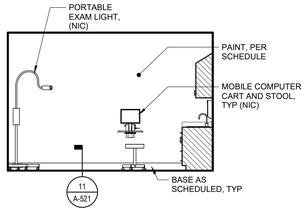
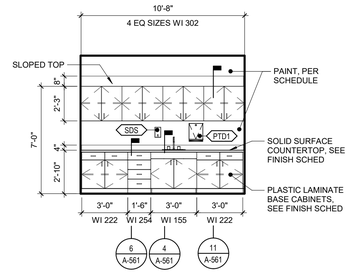


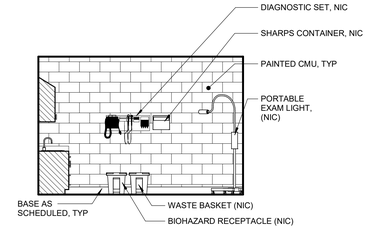
1 237 - EXAM (NORTH)
SCALE 1/4" = 1'-0"



2 237 - EXAM (EAST)
SCALE 1/4" = 1'-0"



3 237 - EXAM (SOUTH)
SCALE 1/4" = 1'-0"



4 237 - EXAM (WEST)
SCALE 1/4" = 1'-0"

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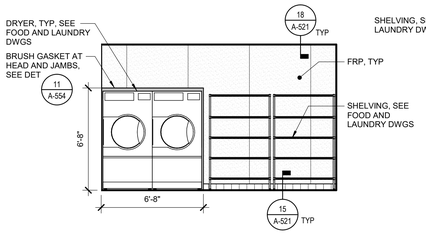
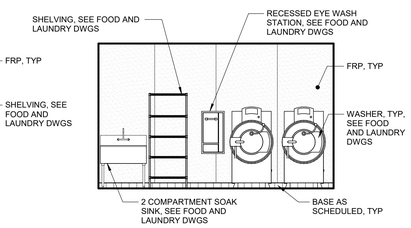
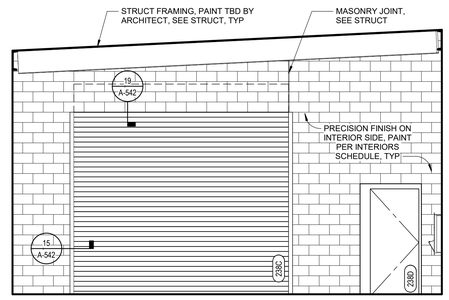


5 311 - LAUNDRY (EAST)
1/4" = 1'-0"

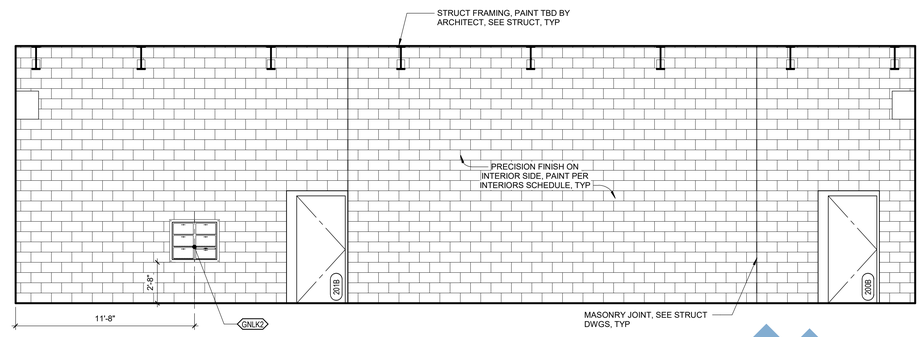


6 311 - LAUNDRY (WEST)
1/4" = 1'-0"

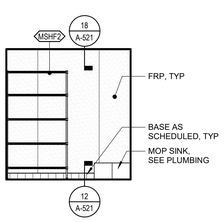


7 238 - VEHICLE SALLY (EAST)
1/4" = 1'-0"

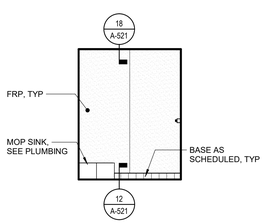
TYP FOR ROOMS
329 - VEHICLE SALLY (WEST OPH)



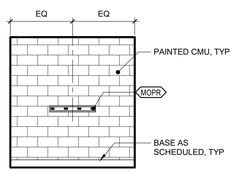
8 238 - VEHICLE SALLY (SOUTH)
1/4" = 1'-0"



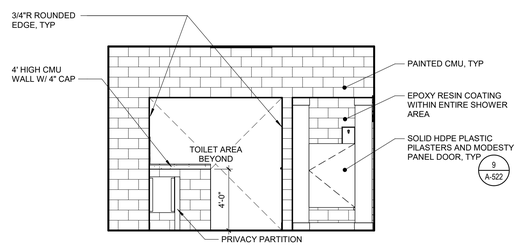
9 325 - JANITOR (EAST)
SCALE 1/4" = 1'-0"



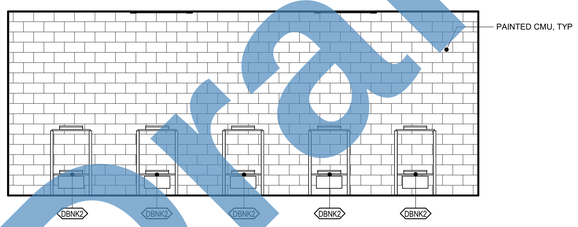
10 325 - JANITOR (SOUTH)
SCALE 1/4" = 1'-0"



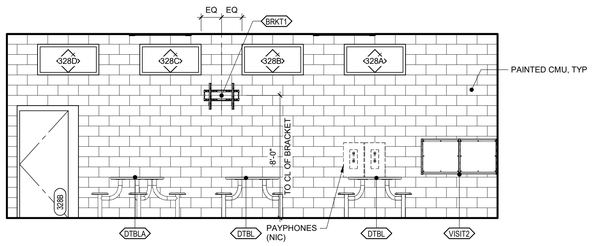
11 325 - JANITOR (WEST)
SCALE 1/4" = 1'-0"



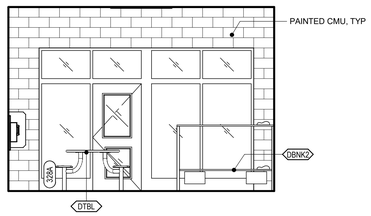
12 328 - 10 BED DORM (EAST)
SCALE 1/4" = 1'-0"



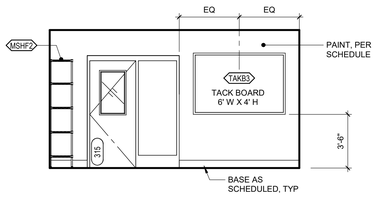
13 328 - 10 BED DORM (NORTH)
SCALE 1/4" = 1'-0"



14 328 - 10 BED DORM (SOUTH)
SCALE 1/4" = 1'-0"

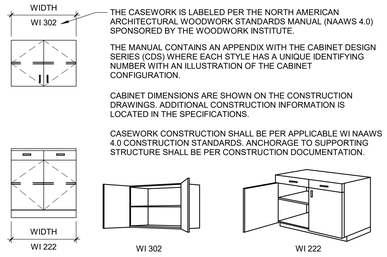


15 328 - 10 BED DORM (WEST)
SCALE 1/4" = 1'-0"



16 315 - OFFICE/SECURITY STORAGE (NORTH)
SCALE 1/4" = 1'-0"

CASEWORK LEGEND



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TITLE
ELEVATIONS - INTERIOR

SHEET
A-225
V1

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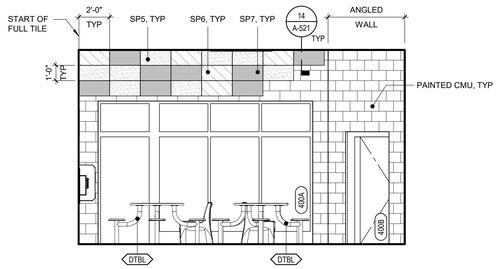
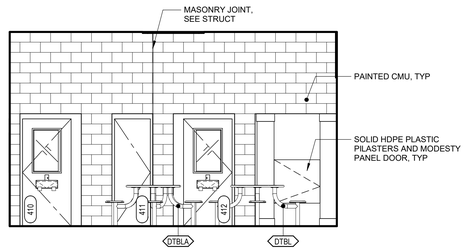


1 400 - DAY ROOM (NORTH)

SCALE 1/4" = 1'-0"

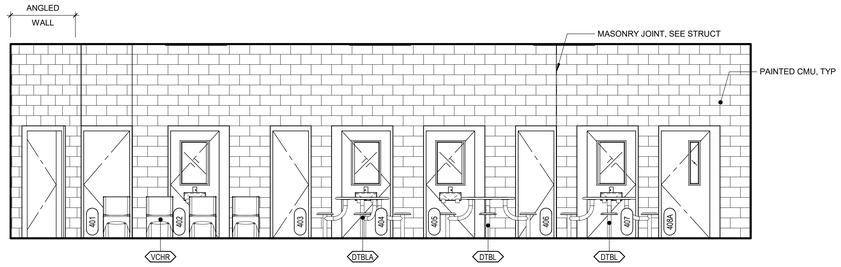
TYP FOR ROOMS
428 - DAY ROOM (NORTH OPH)



2 400 - DAY ROOM (SOUTH)

SCALE 1/4" = 1'-0"

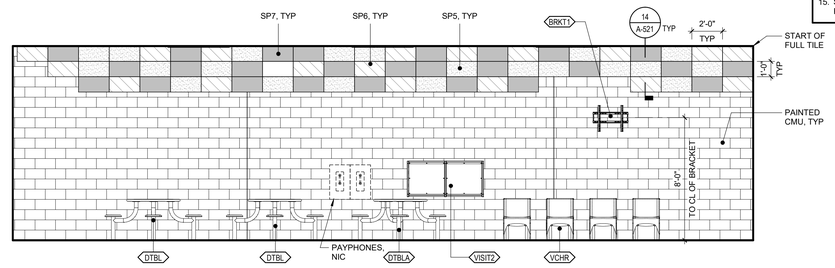
TYP FOR ROOMS
428 - DAY ROOM (SOUTH OPH)



3 400 - DAY ROOM (EAST)

SCALE 1/4" = 1'-0"

TYP FOR ROOMS
428 - DAY ROOM (WEST OPH)



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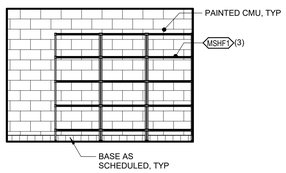
SCALE 1/4" = 1'-0"

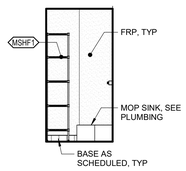
TYP FOR ROOMS
428 - DAY ROOM (EAST OPH)



5 401 - JANITOR (NORTH)

SCALE 1/4" = 1'-0"

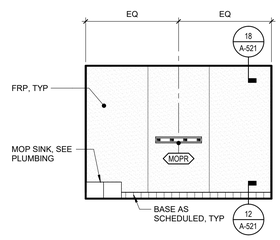
TYP FOR ROOMS
427 - JANITOR (NORTH OPH)



6 401 - JANITOR (EAST)

SCALE 1/4" = 1'-0"

TYP FOR ROOMS
427 - JANITOR (WEST OPH)



7 401 - JANITOR (SOUTH)

SCALE 1/4" = 1'-0"

TYP FOR ROOMS
427 - JANITOR (SOUTH OPH)

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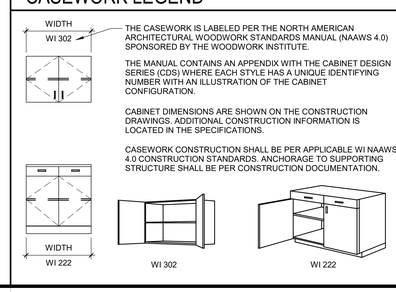
CASEWORK LEGEND



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MANAGEMENT

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TITLE
ELEVATIONS - INTERIOR

SHEET
A-226

V1

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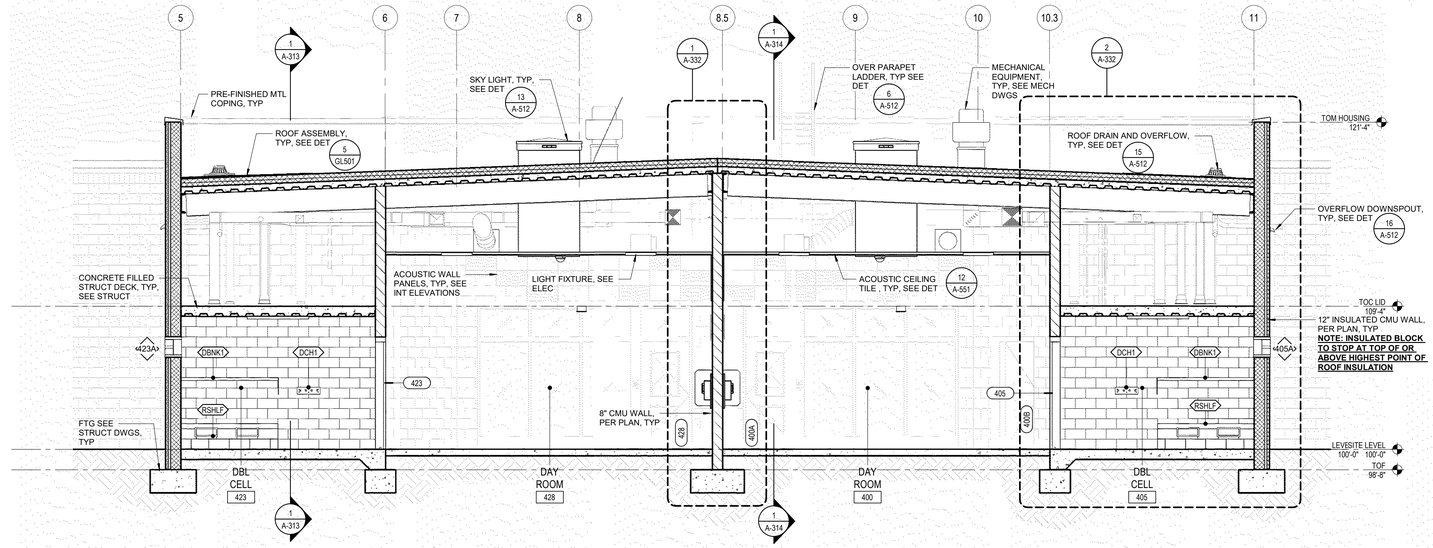
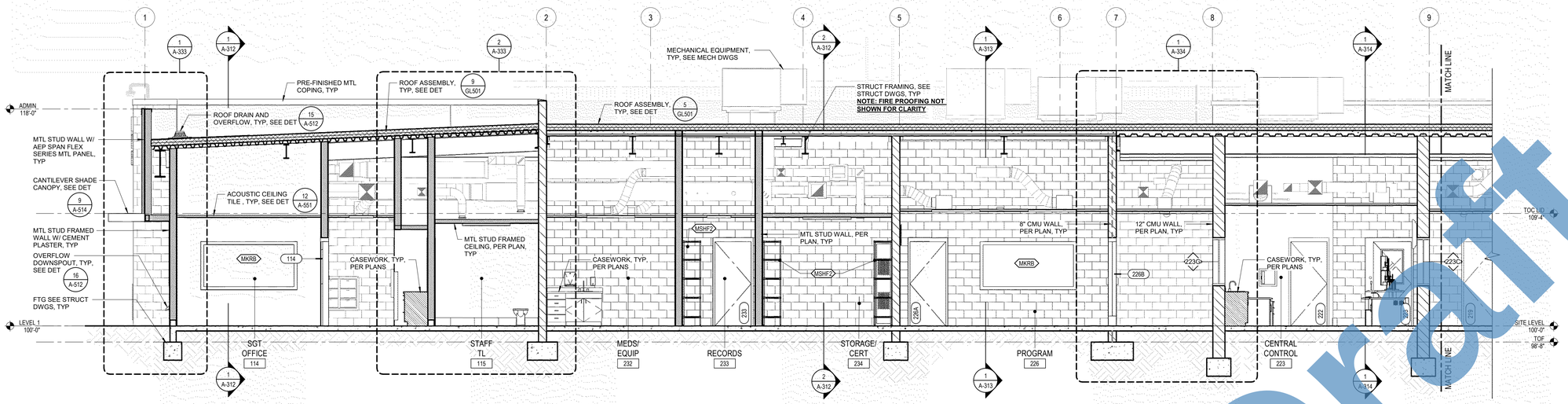
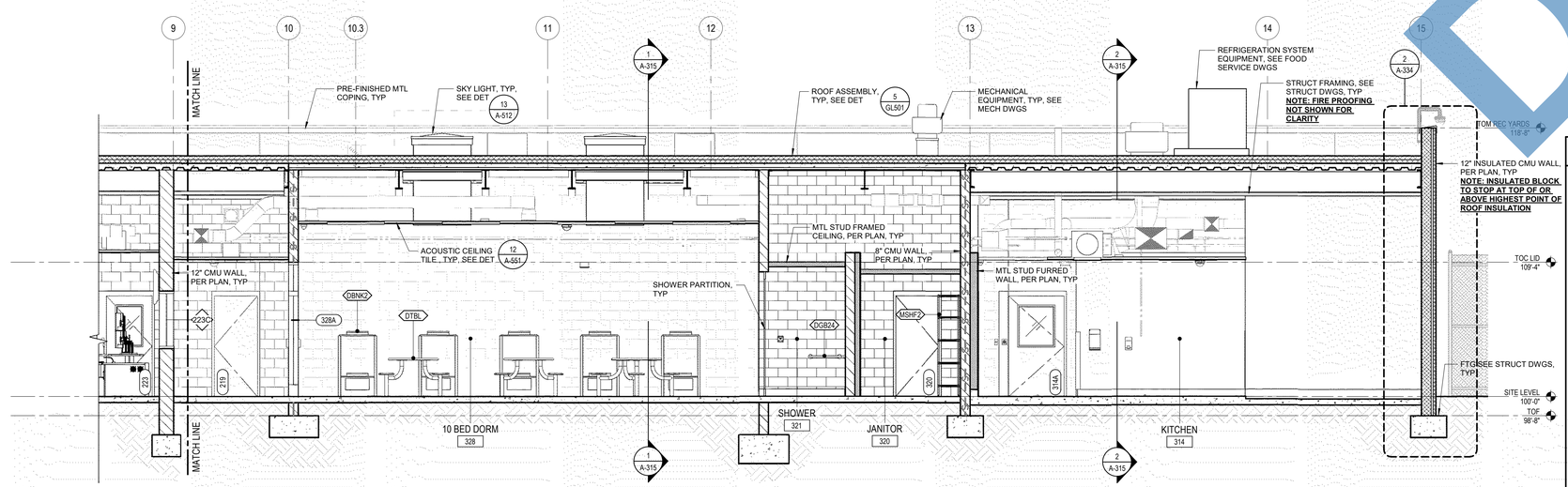


1 SECTION - BUILDING - OVERALL
1/4" = 1'-0"



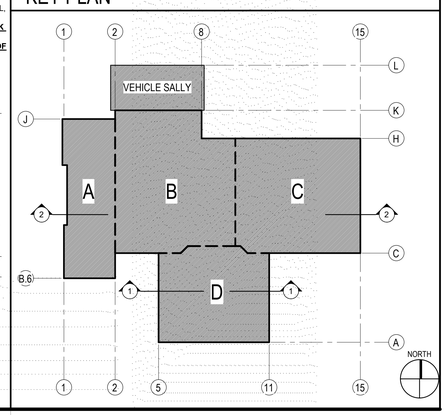


2 SECTION - BUILDING - OVERALL
1/4" = 1'-0"

SHEET NOTES

1. FOR DOOR TYPES, DOOR SCHEDULE SEE A-621.
2. FOR WINDOW TYPES AND WINDOW SCHEDULE SEE A-631.
3. SEE SHEET A-611 FOR ACCESSORY, FURNISHINGS, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE..

KEY PLAN



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P 916.558.1900
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AGENCY

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SEAL

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221 TWIN LAKES RD
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CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
SECTIONS - BUILDING

SHEET
A-311

V1

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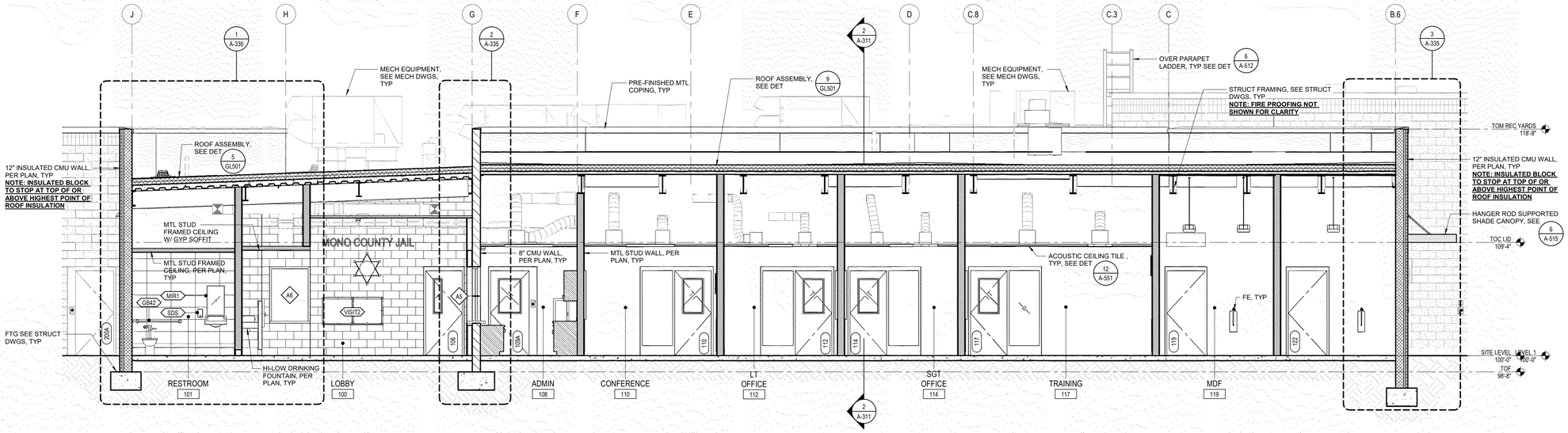
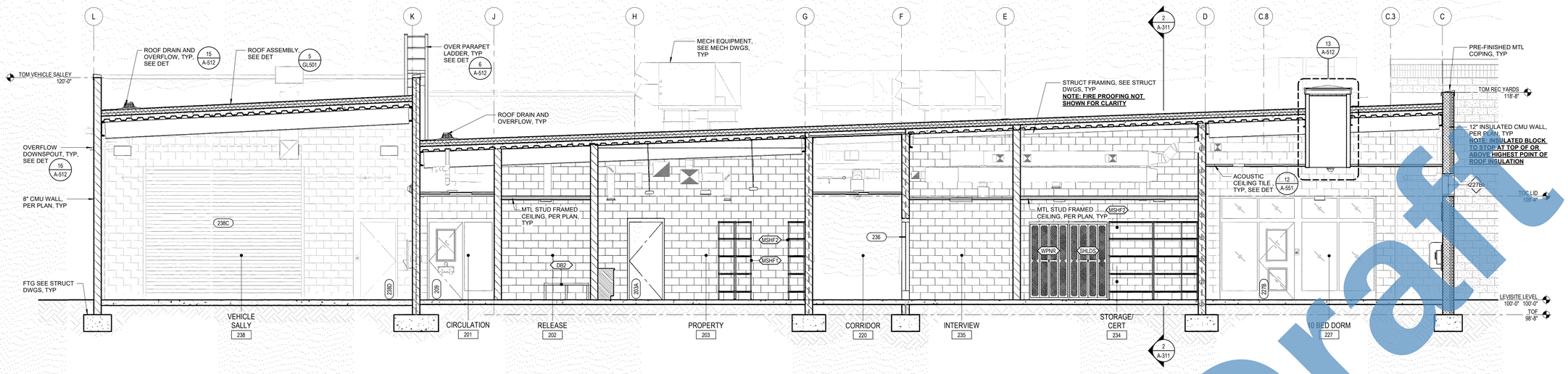


1 SECTION - BUILDING - OVERALL
1/4" = 1'-0"



2 SECTION - BUILDING - OVERALL
1/4" = 1'-0"

SHEET NOTES

1. FOR DOOR TYPES, DOOR SCHEDULE SEE A-621.
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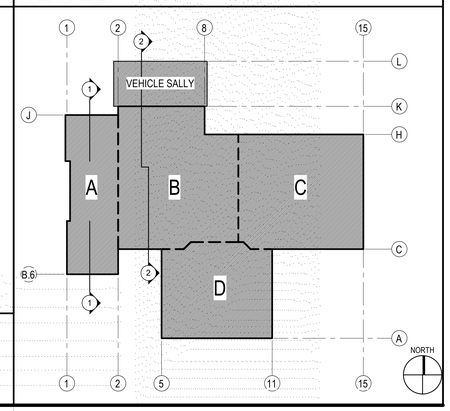
KEY PLAN



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TITLE
SECTIONS - BUILDING

SHEET
A-312
V1

Draft

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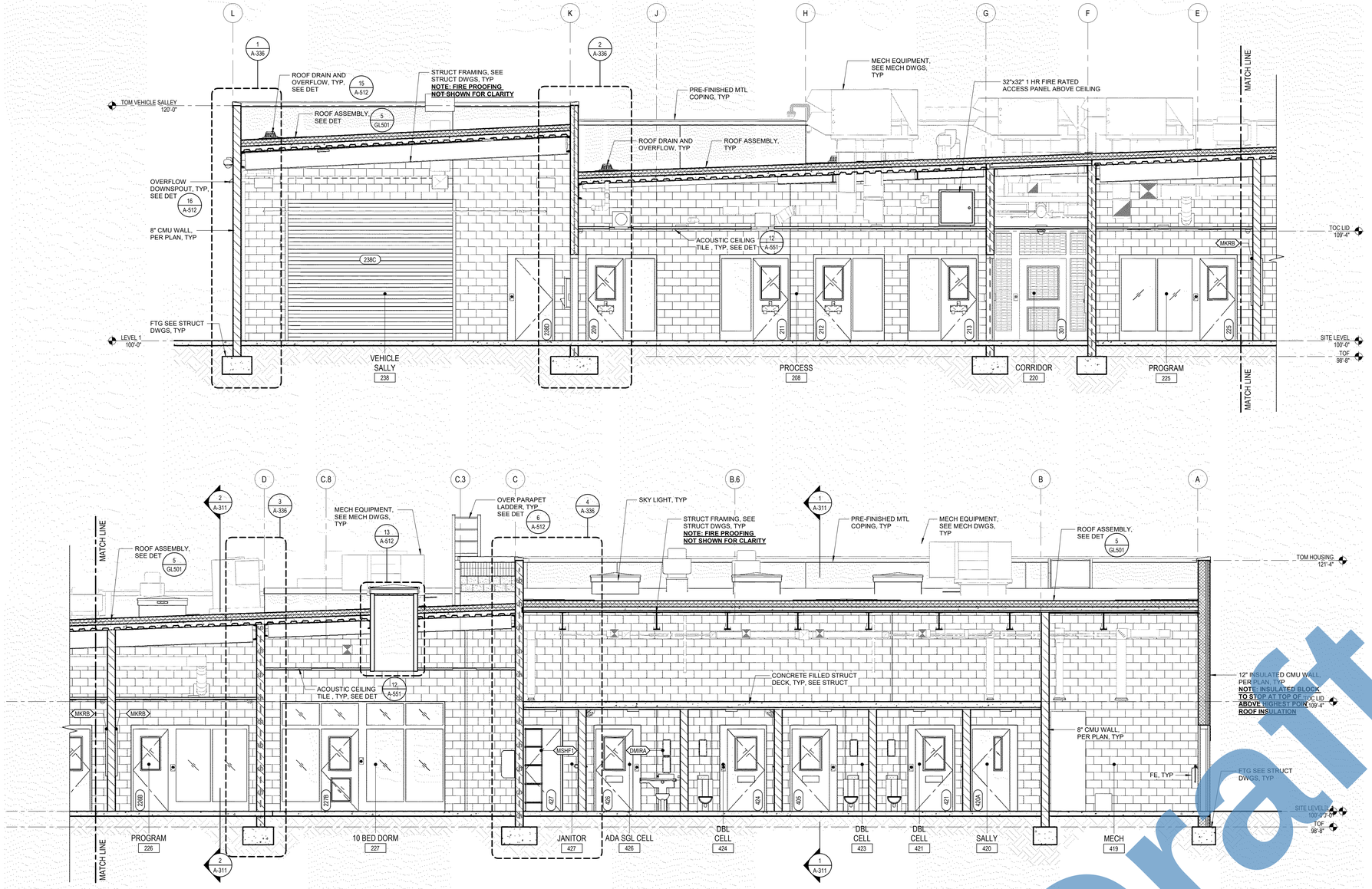

1 SECTION - BUILDING - OVERALL

1/4" = 1'-0"

Draft

SHEET NOTES

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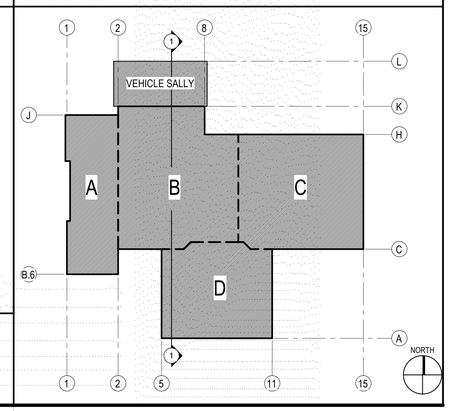
KEY PLAN



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SECTIONS - BUILDING

SHEET
A-313

V1

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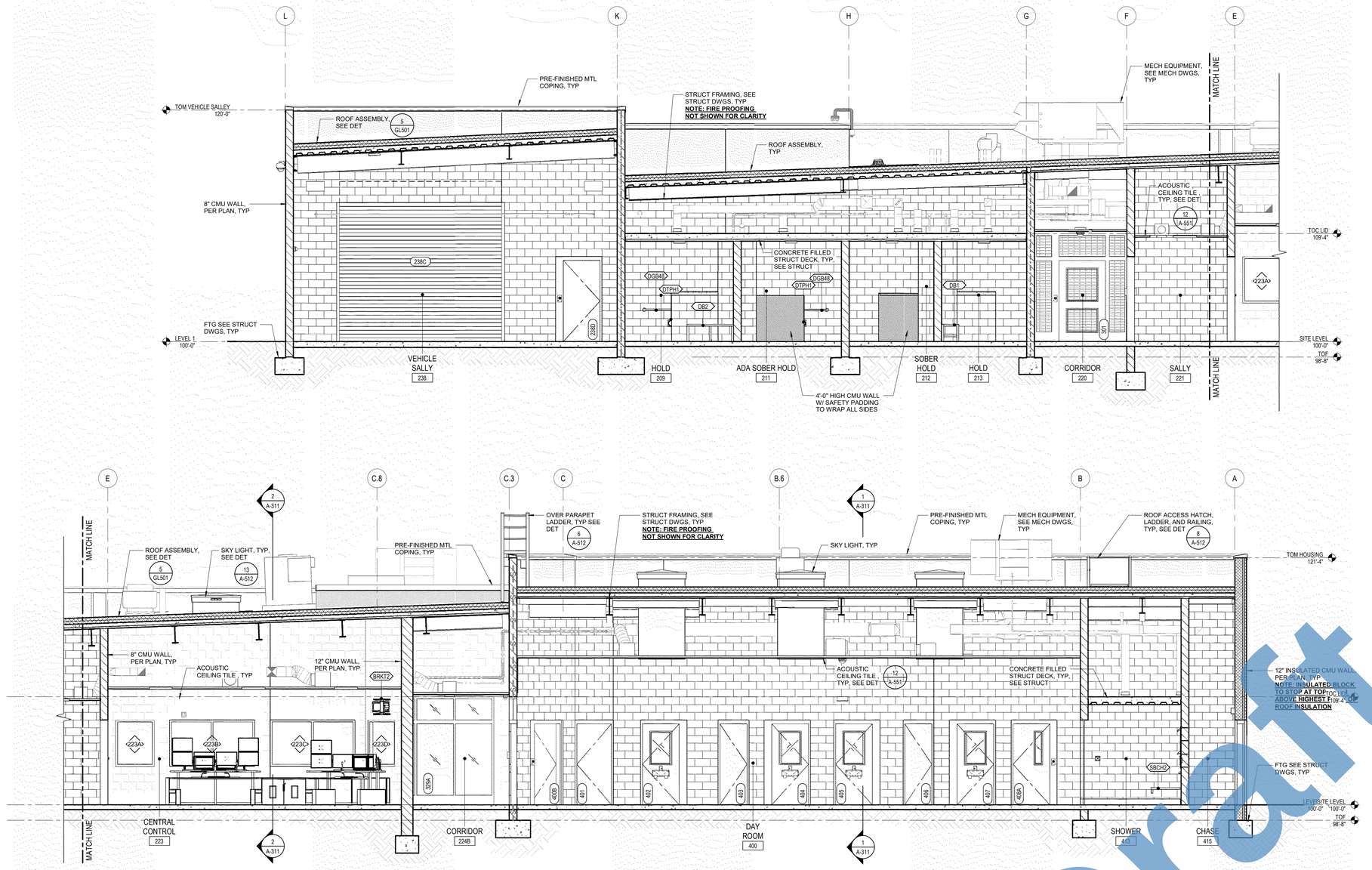

1 SECTION - BUILDING - OVERALL

1/4" = 1'-0"

Draft

SHEET NOTES

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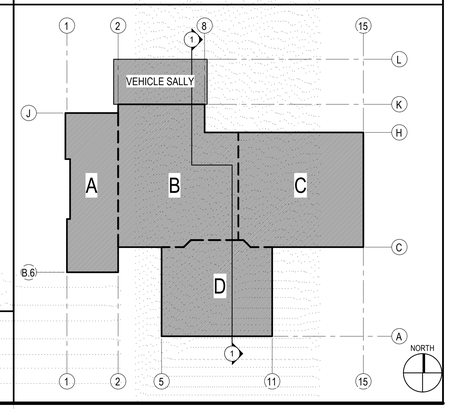
KEY PLAN



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TITLE
SECTIONS - BUILDING

SHEET
A-314

V1

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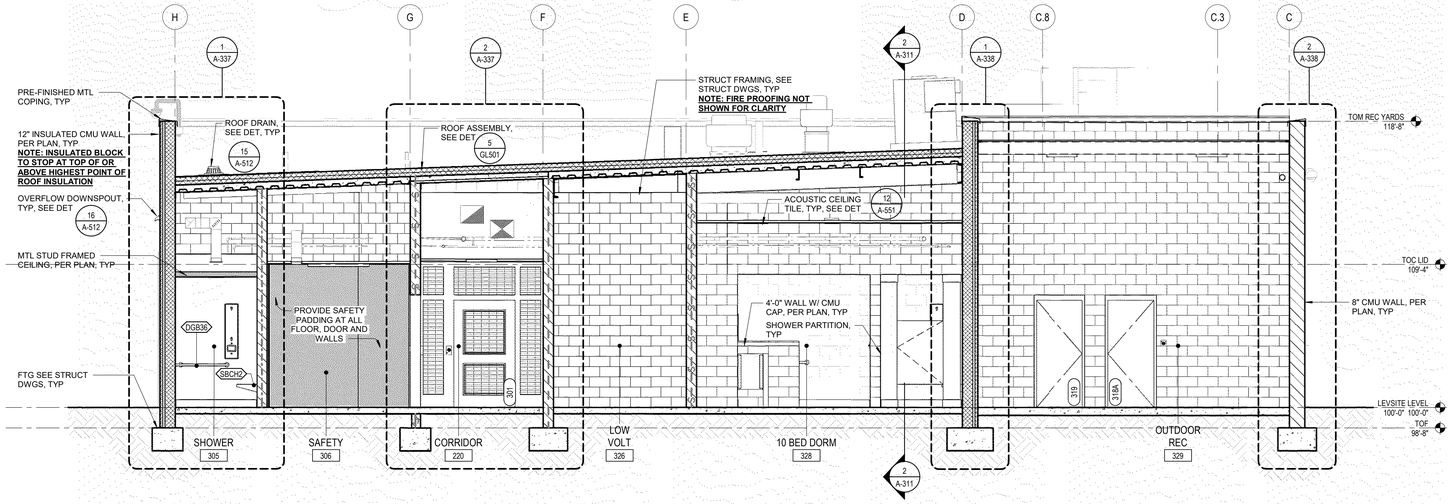
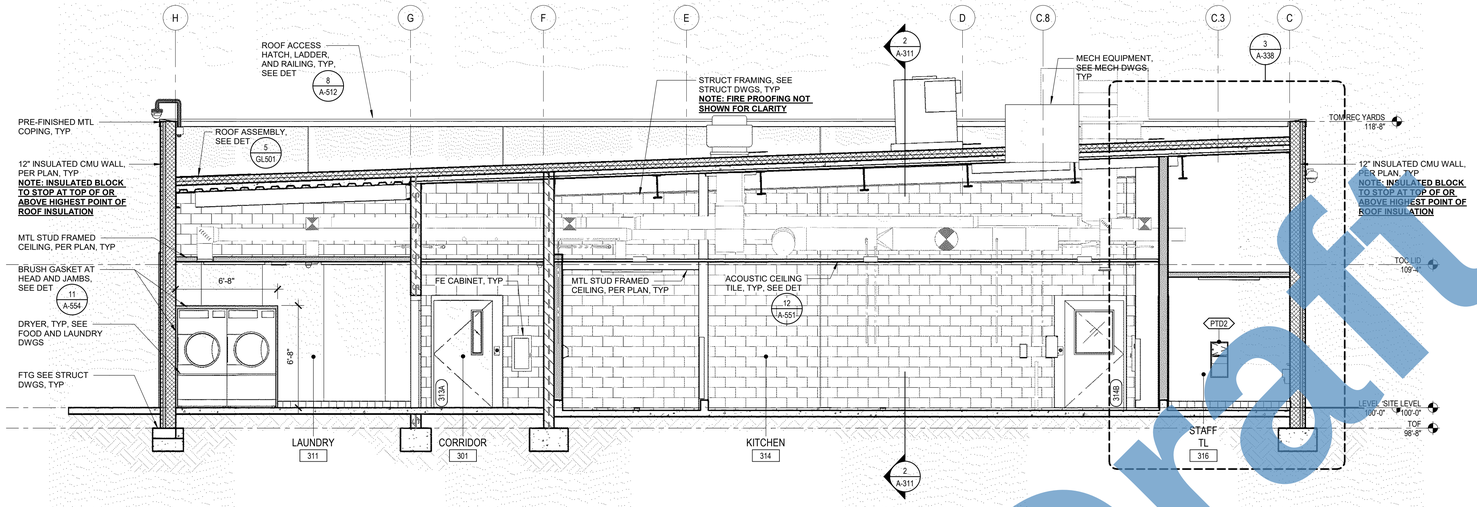


1 SECTION - BUILDING - OVERALL
1/4" = 1'-0"



2 SECTION - BUILDING - OVERALL
1/4" = 1'-0"

SHEET NOTES

1. FOR DOOR TYPES, DOOR SCHEDULE SEE A-621.
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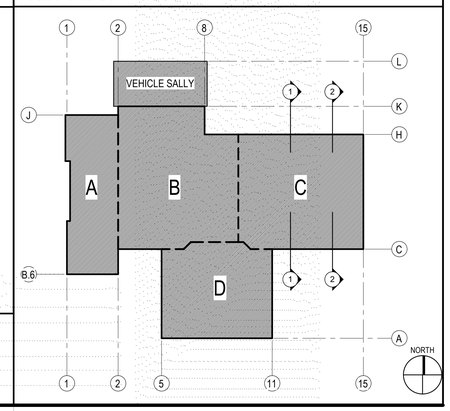
KEY PLAN



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TITLE
SECTIONS - BUILDING

SHEET
A-315

V1

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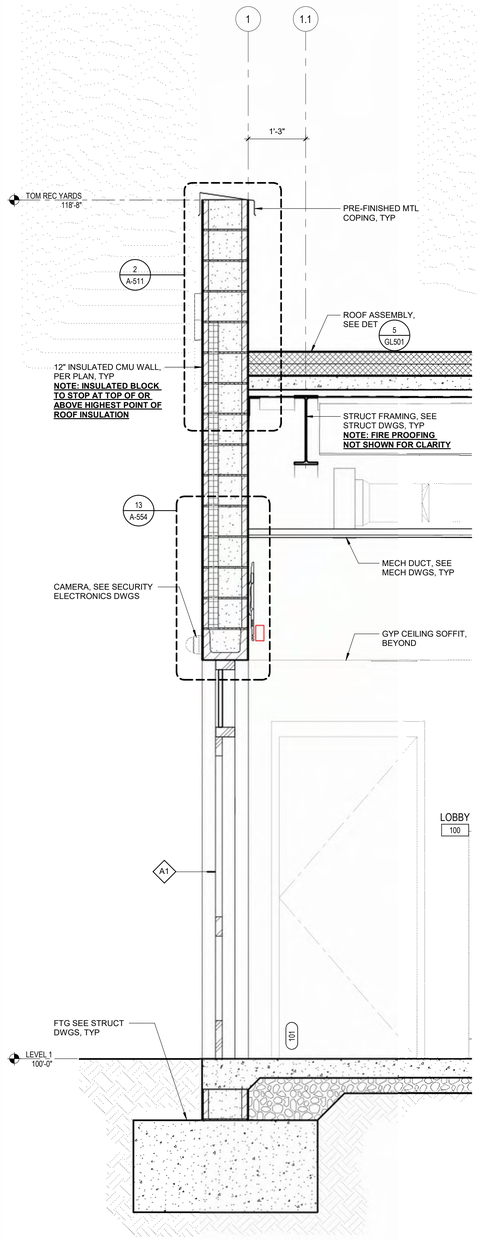
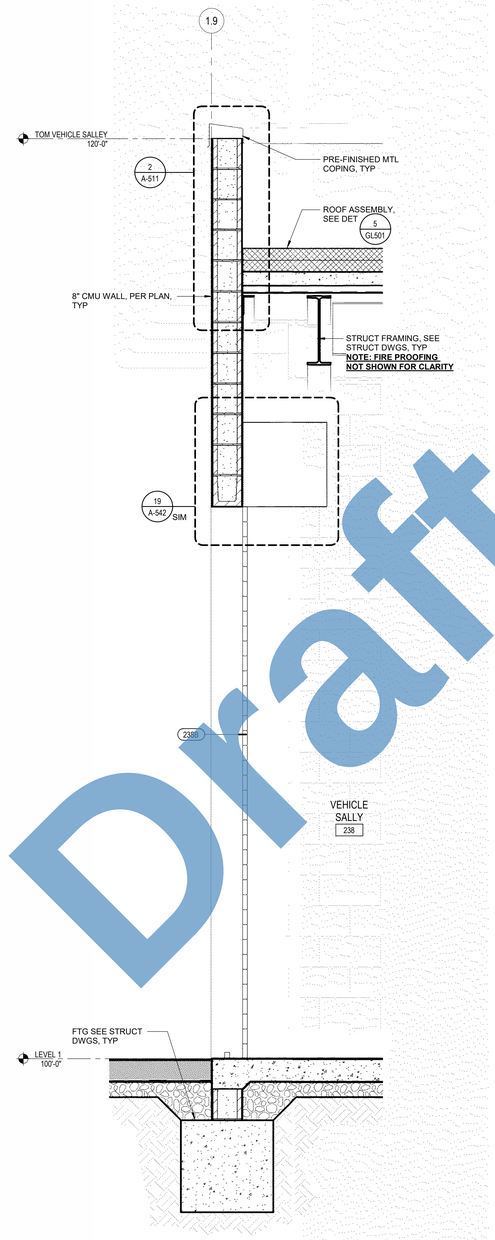


1 WALL - SECTION - EXTERIOR
3/4" = 1'-0"



2 WALL - SECTION - EXTERIOR
3/4" = 1'-0"

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LICENSED ARCHITECT
RICHARD J. DAVIS
C27266
REN. 06-30-25
STATE OF CALIFORNIA

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TITLE
SECTIONS - WALL

SHEET
A-331
V1

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SHEET NOTES

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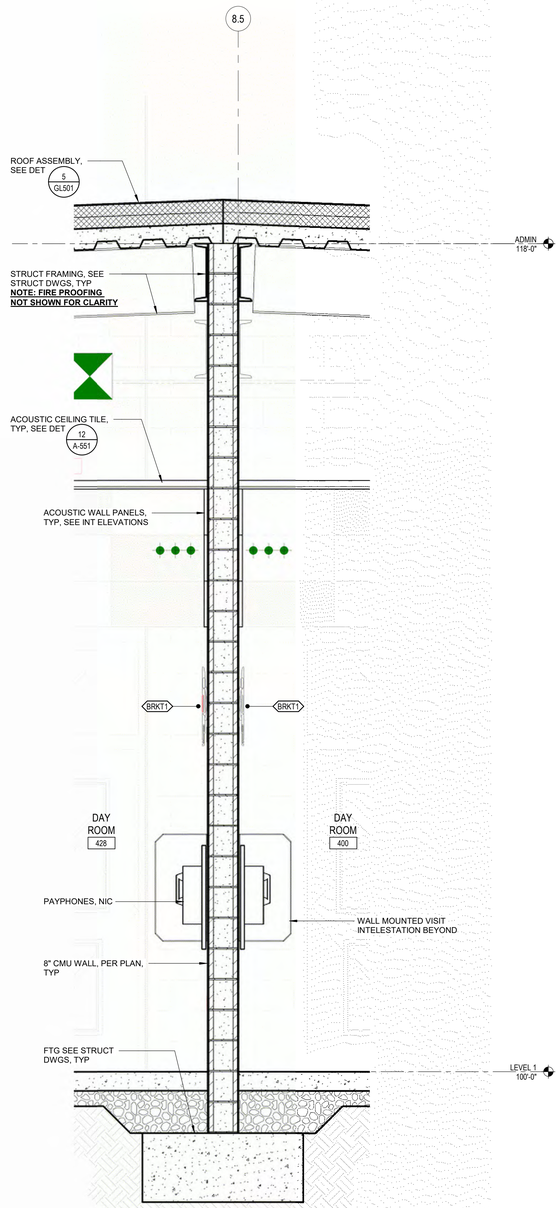
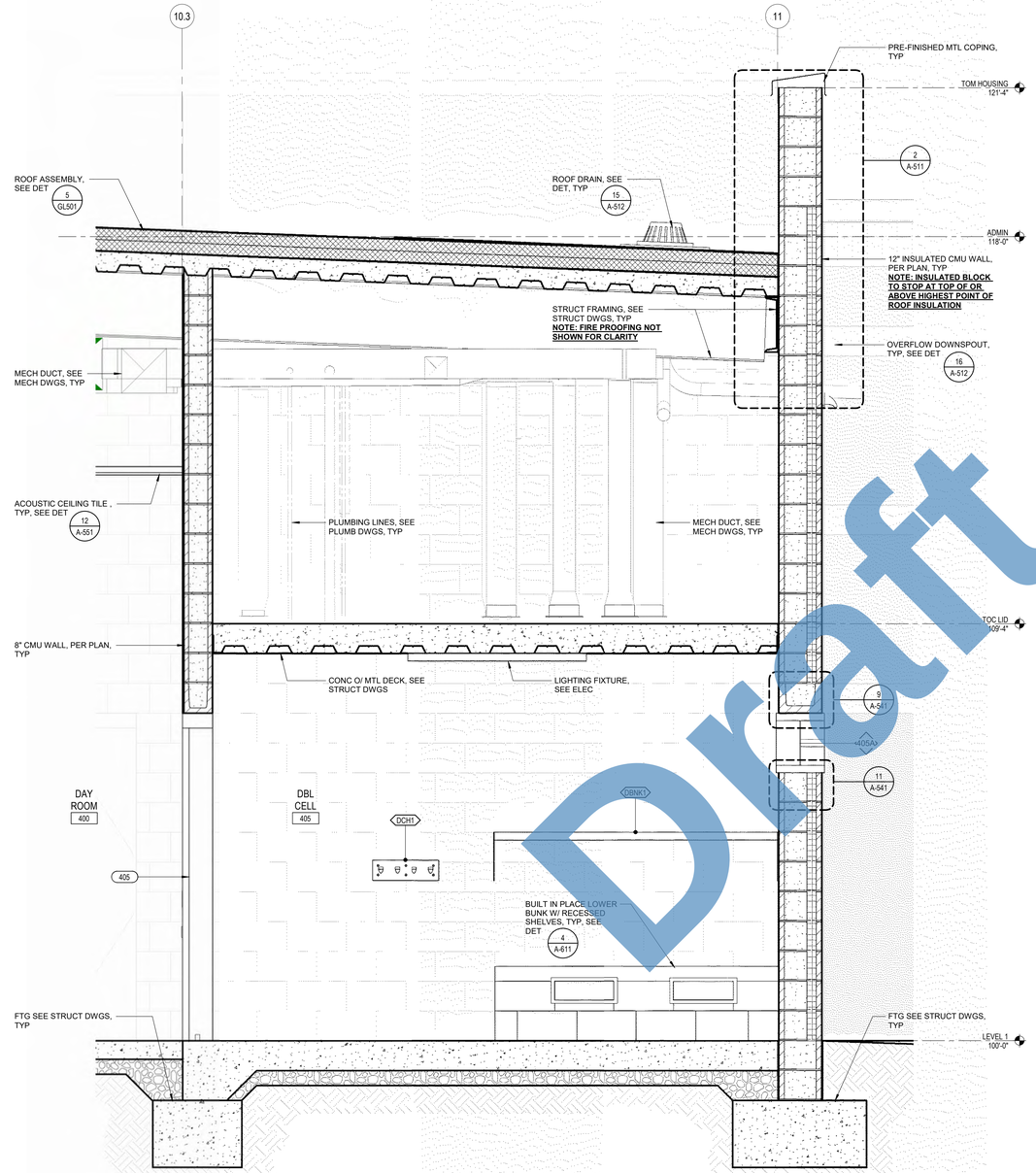


1 WALL - SECTION - EXTERIOR
3/4" = 1'-0"



2 WALL - SECTION - EXTERIOR
3/4" = 1'-0"

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SEPTEMBER 11, 2023

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TITLE
SECTIONS - WALL

SHEET
A-332

V1

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SHEET NOTES

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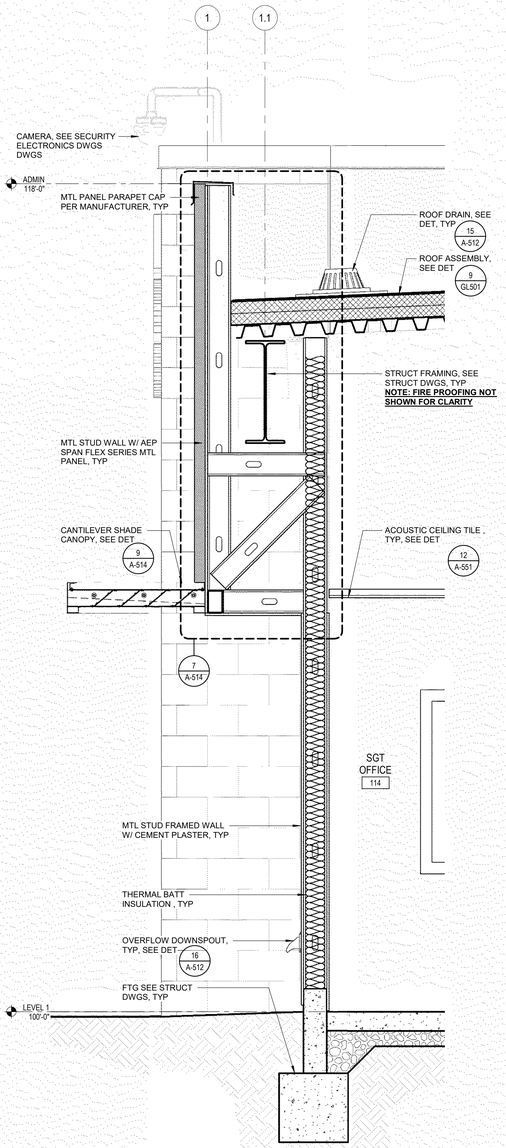

1 WALL - SECTION - EXTERIOR
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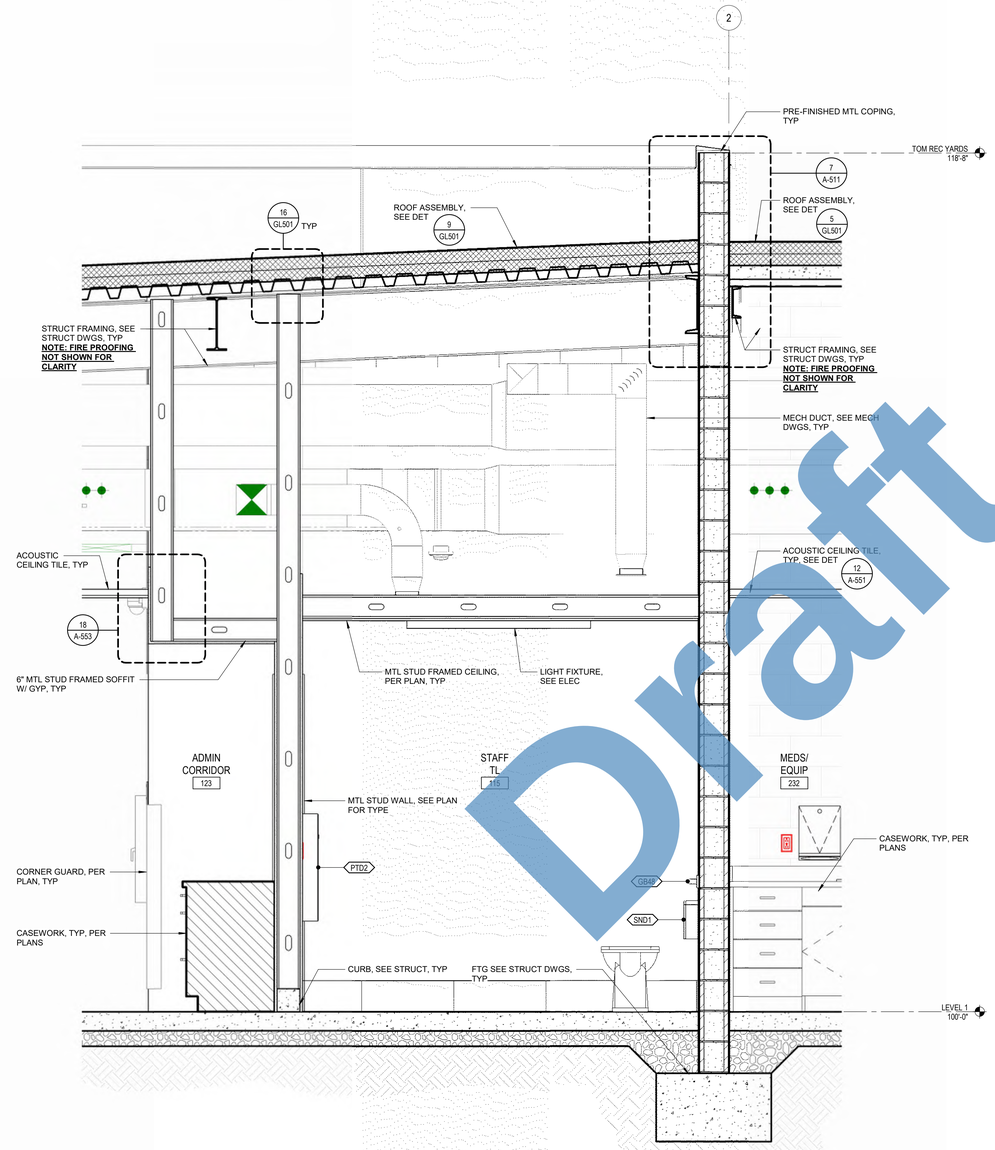

2 WALL - SECTION - EXTERIOR
3/4" = 1'-0"

Draft

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LICENSED ARCHITECT ANDREW J. DAVIS #27266 REN. 06-30-25 STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

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TITLE
SECTIONS - WALL

SHEET
A-333
V1

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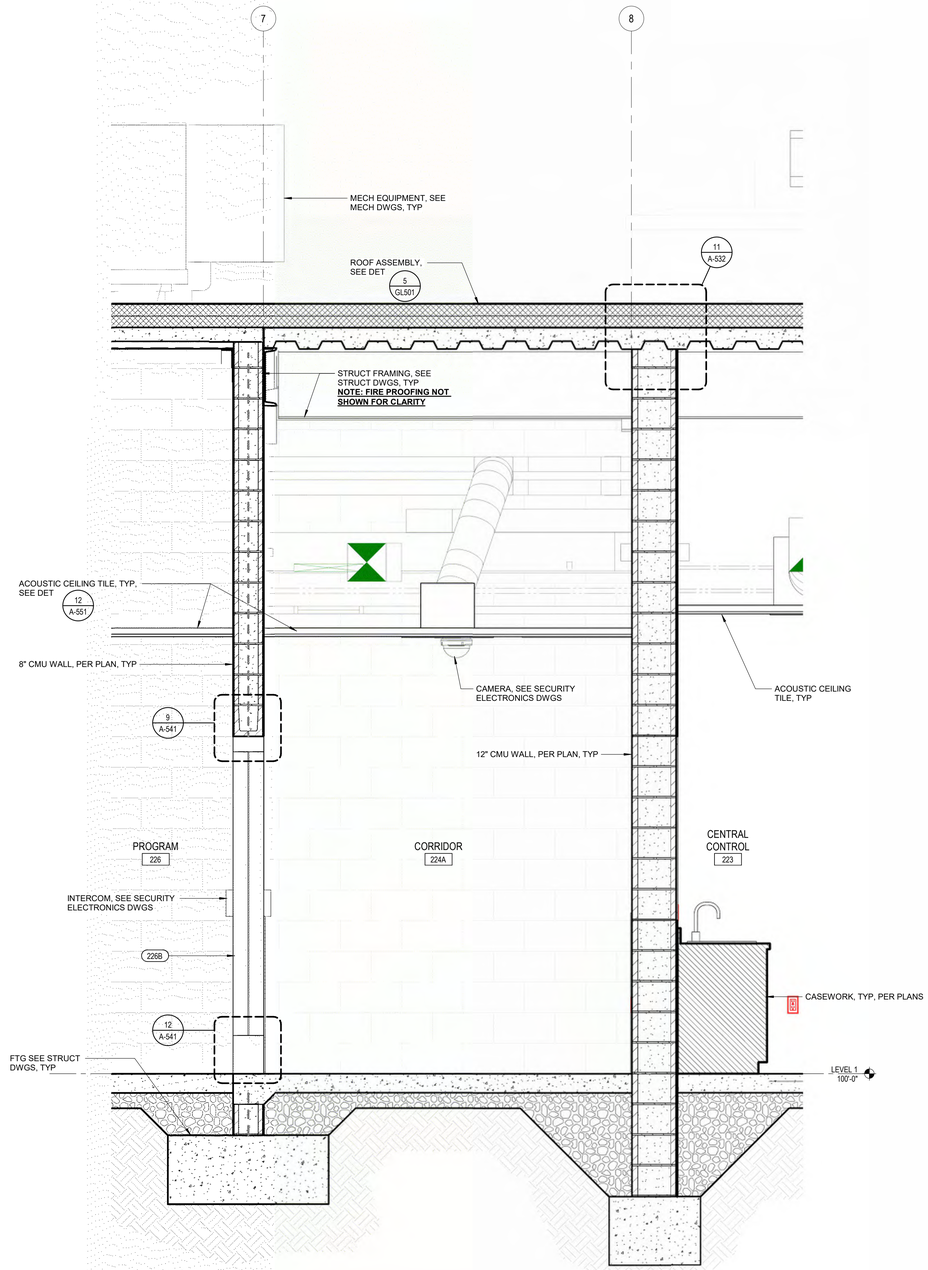

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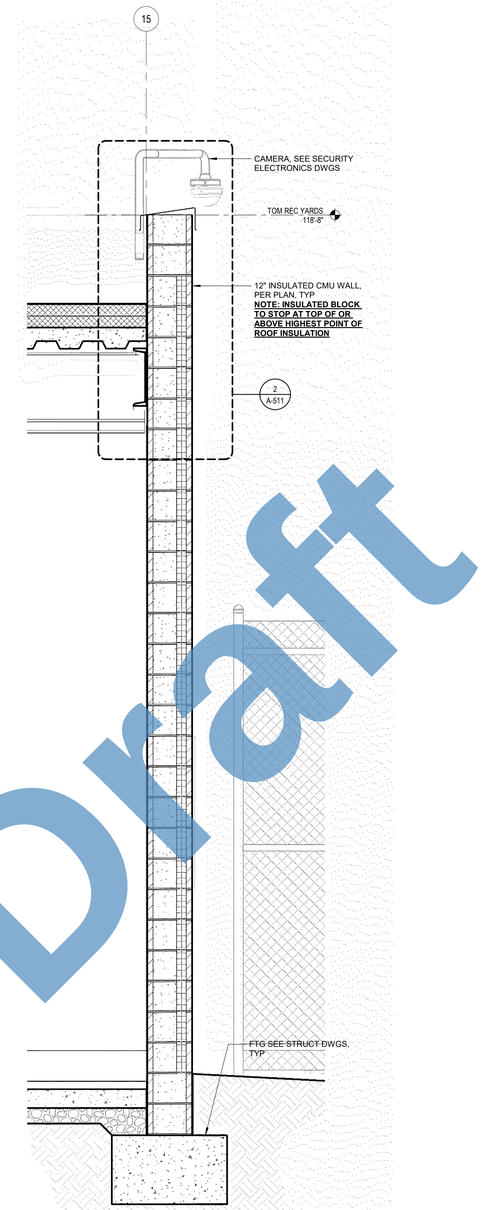

2 WALL - SECTION - EXTERIOR
3/4" = 1'-0"

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MICHAEL J. DAVIS
C227266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

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SEPTEMBER 11, 2023

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TITLE
SECTIONS - WALL

SHEET
A-334
V1

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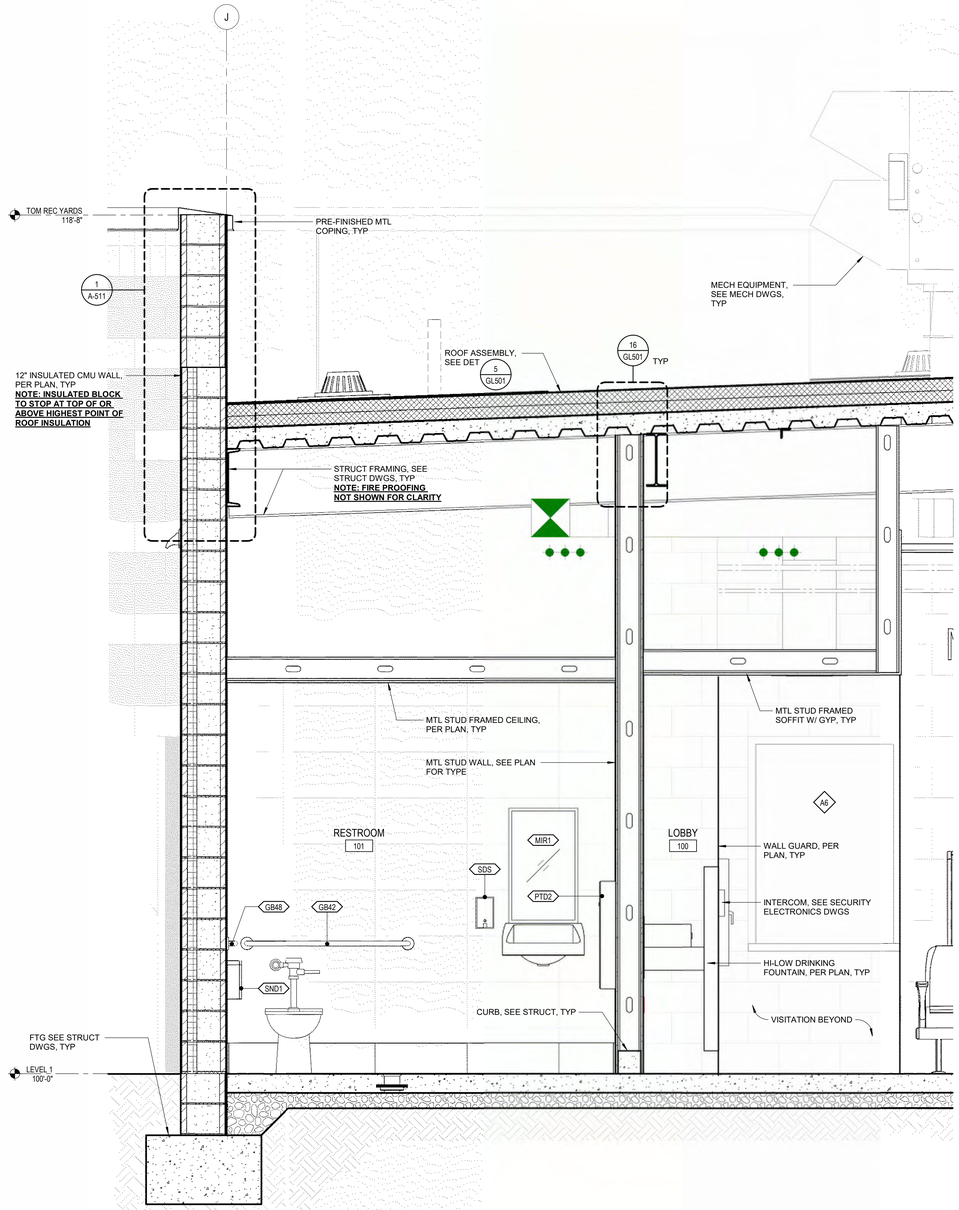

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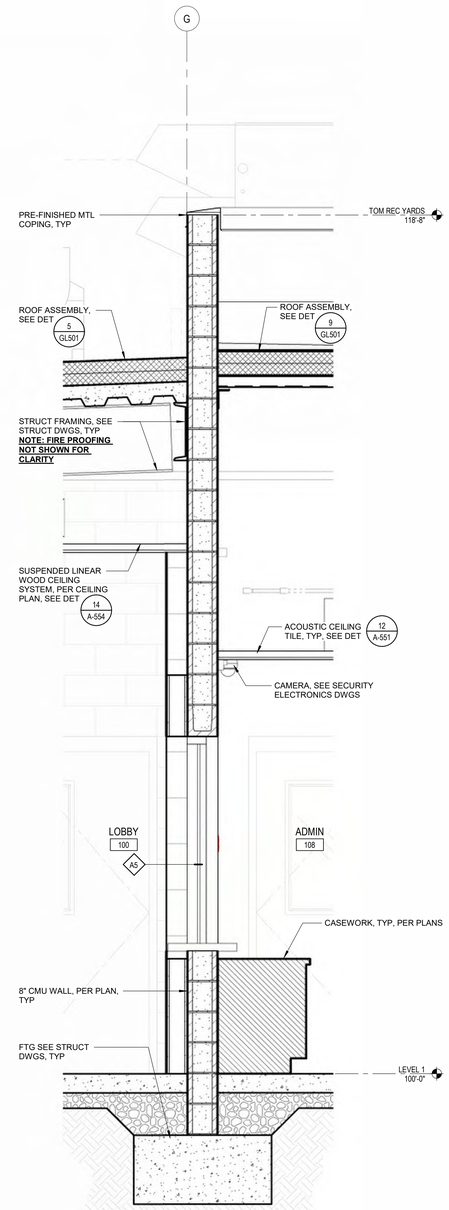
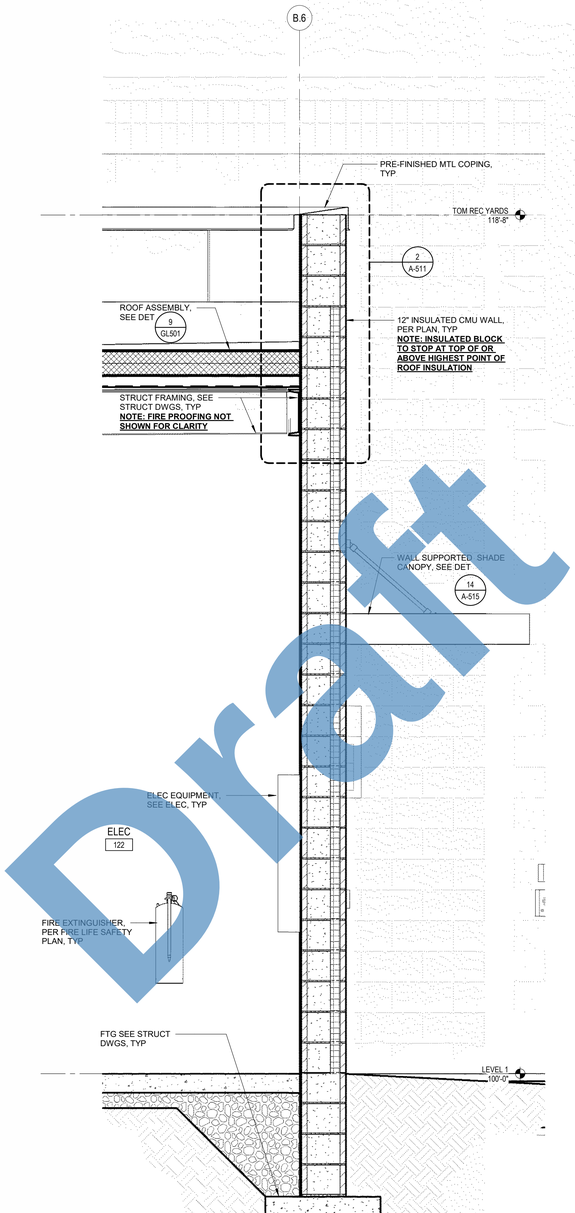


2 WALL - SECTION - EXTERIOR
3/4" = 1'-0"



3 WALL - SECTION - EXTERIOR
3/4" = 1'-0"

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SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2022

TITLE
SECTIONS - WALL

SHEET
A-335

V1

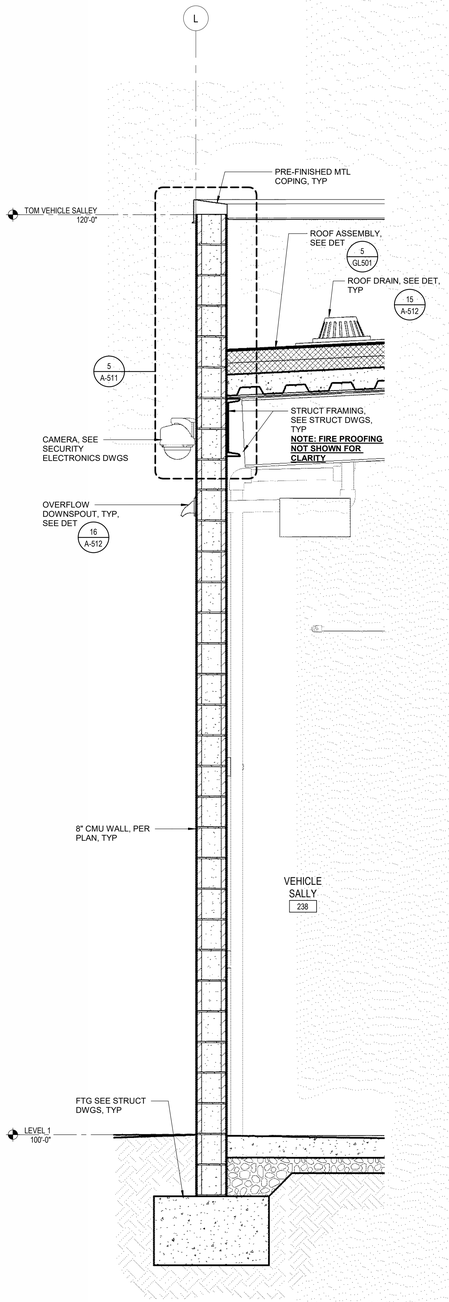
BIM 360://018133 Mono Jail/018133_ARCHNSTR_R20_CENTRAL.rvt

9/8/2023 8:57:48 PM

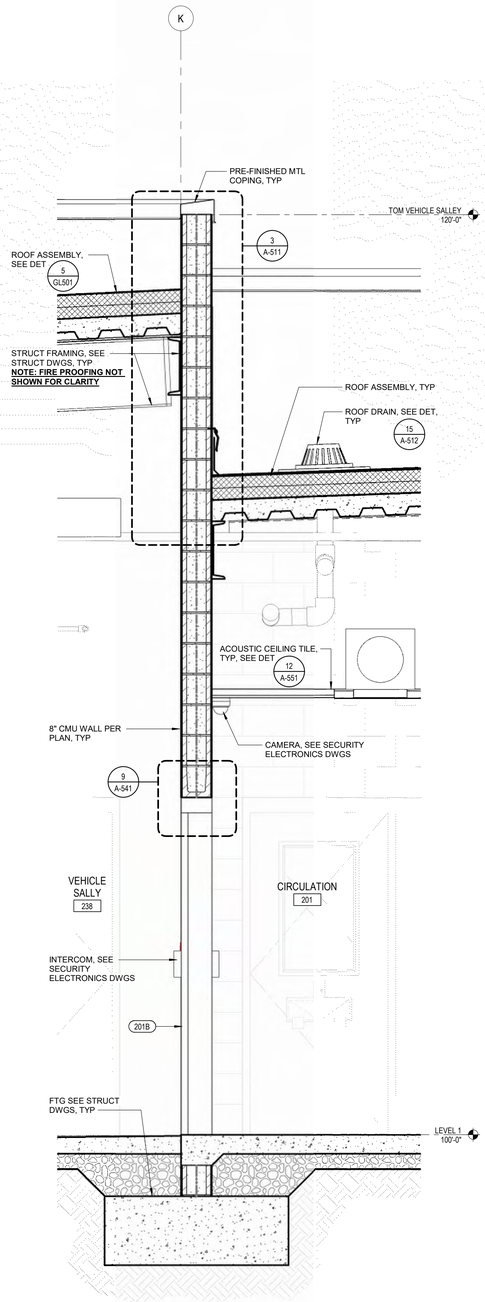
IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

SHEET NOTES

1. FOR DOOR TYPES, DOOR SCHEDULE SEE A-621.
2. FOR WINDOW TYPES AND WINDOW SCHEDULE SEE A-631.
3. SEE SHEET A-611 FOR ACCESSORY, FURNISHINGS, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE.



1 WALL - SECTION - EXTERIOR
3/4" = 1'-0"



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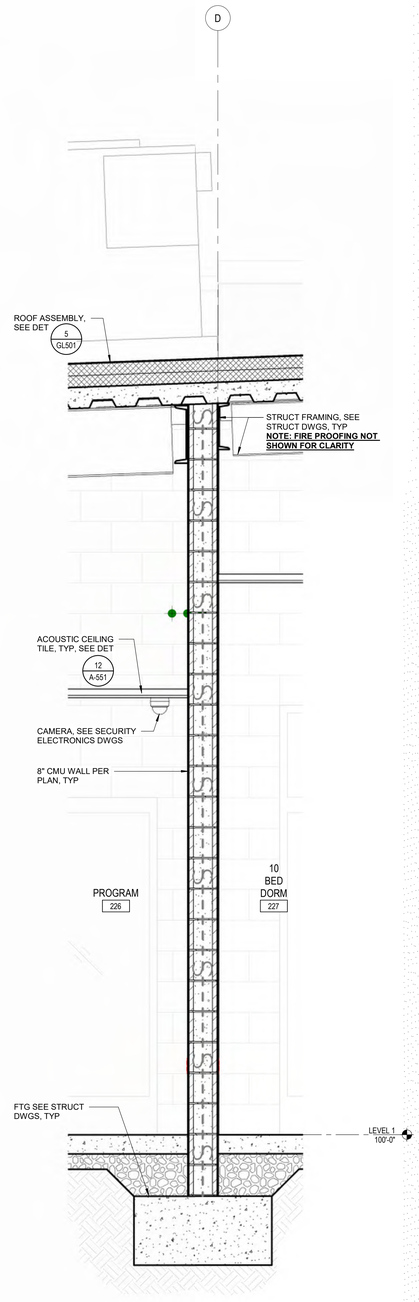

3 WALL - SECTION - EXTERIOR
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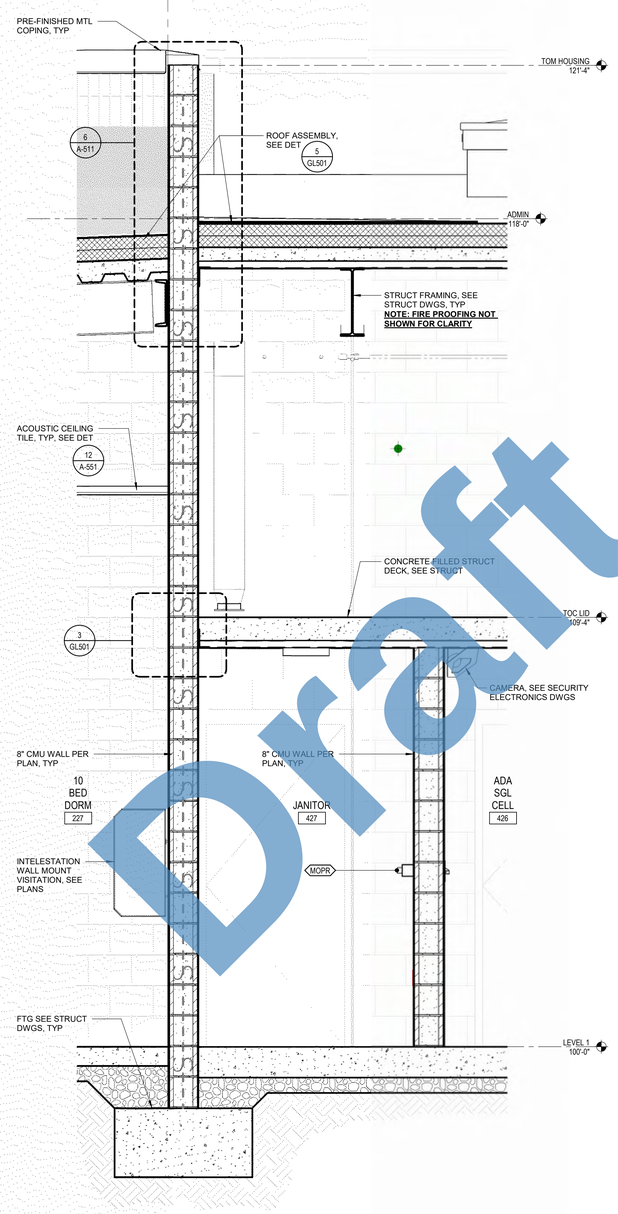

4 WALL - SECTION - EXTERIOR
3/4" = 1'-0"

Draft

LIONAKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

LICENSED ARCHITECT
RICHARD J. DAVIS
C-27266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
SECTIONS - WALL

SHEET
A-336

V1

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9/8/2023 8:57:59 PM

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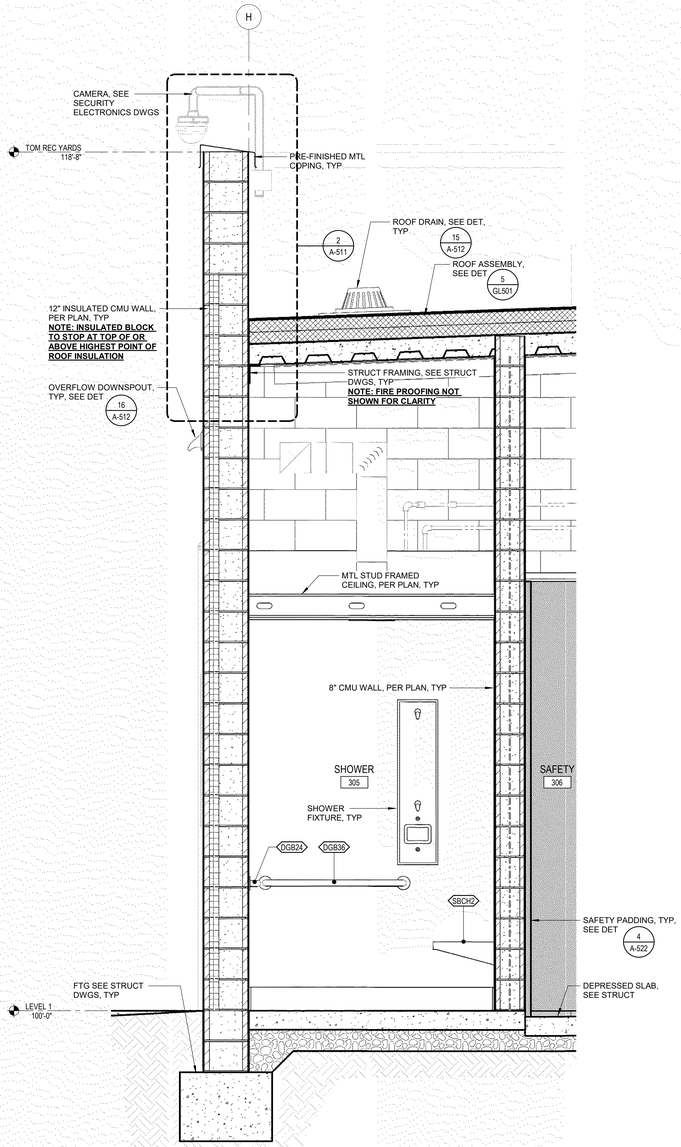
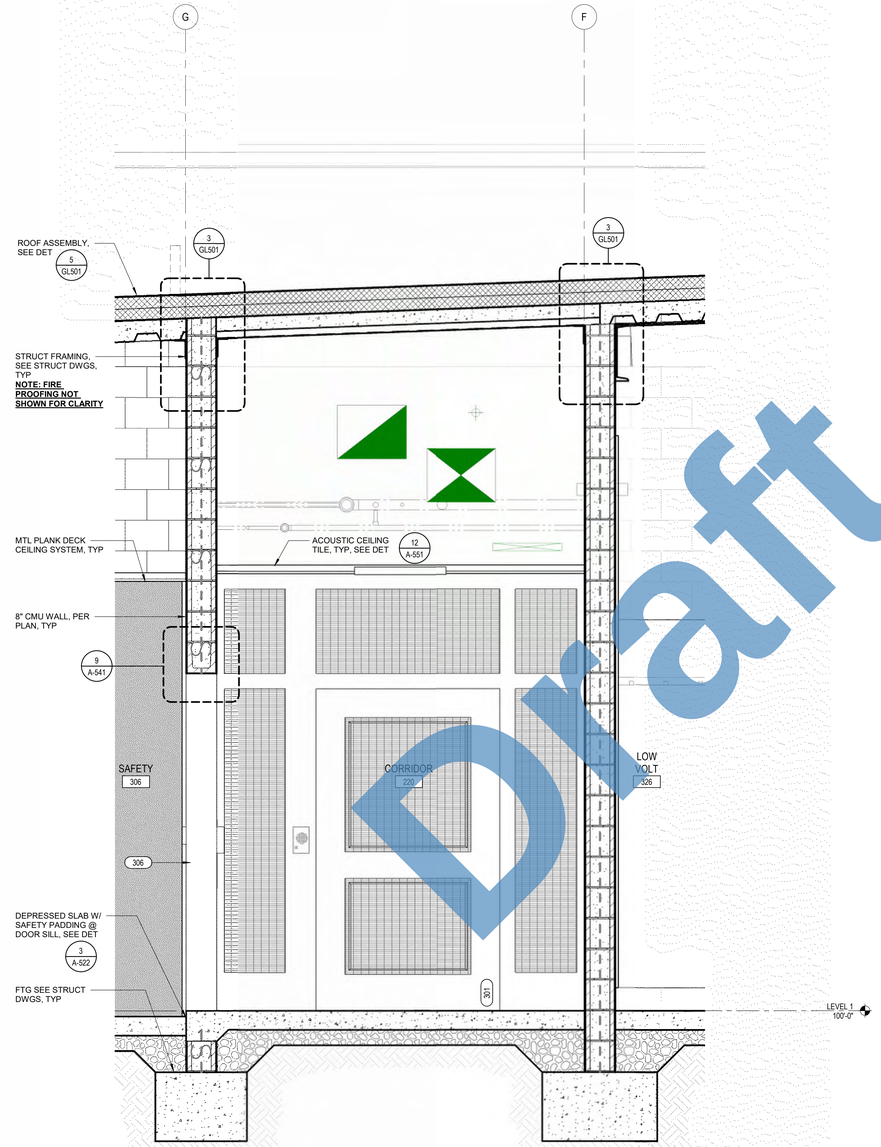


1 WALL - SECTION - EXTERIOR
3/4" = 1'-0"



2 WALL - SECTION - INTERIOR
3/4" = 1'-0"

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CLIENT PROJECT NO:
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TITLE
SECTIONS - WALL

SHEET
A-337
V1

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9/8/2023 8:58:07 PM

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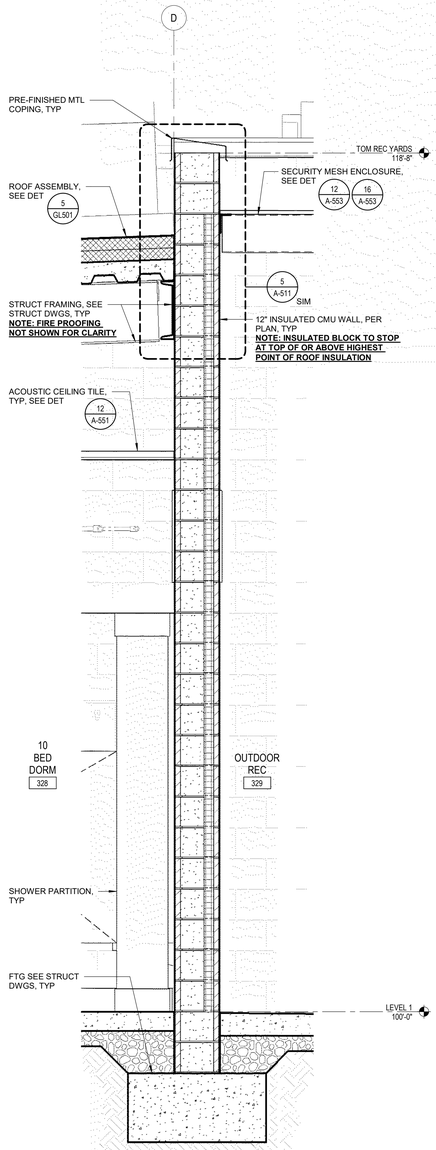
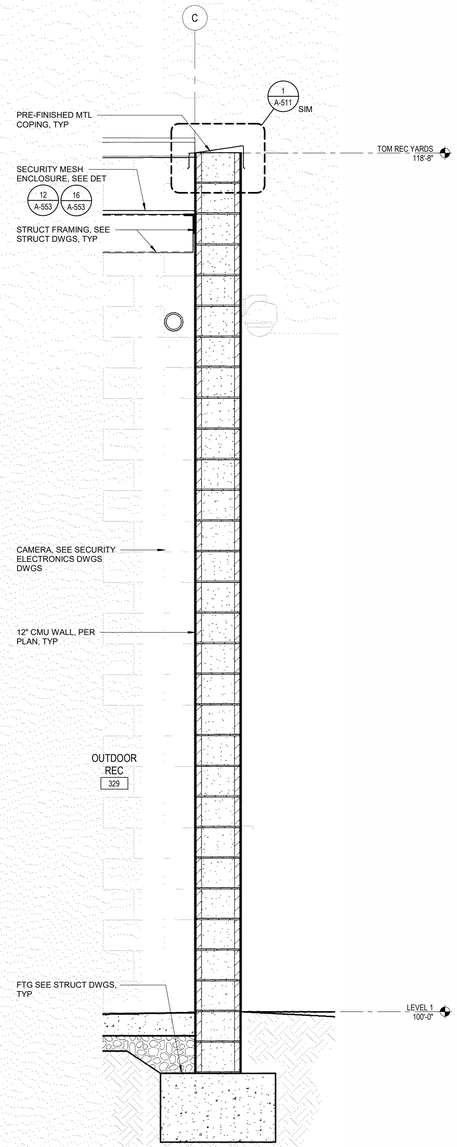
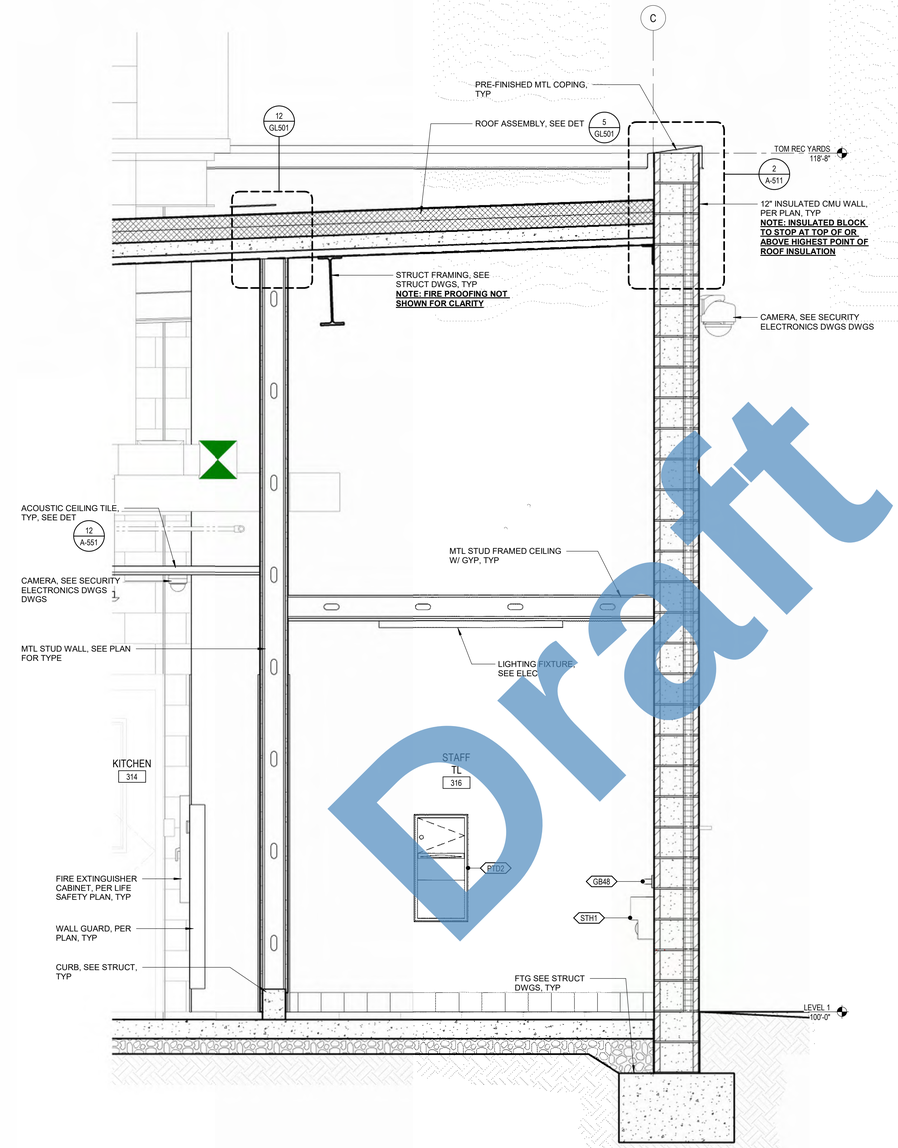


1 WALL - SECTION - EXTERIOR
3/4" = 1'-0"



2 WALL - SECTION - EXTERIOR
3/4" = 1'-0"



3 WALL - SECTION - EXTERIOR
3/4" = 1'-0"

Draft

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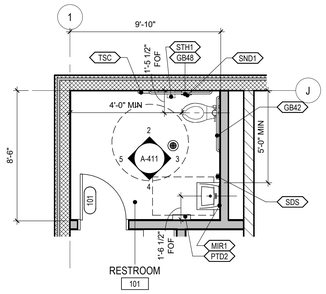
TITLE
SECTIONS - WALL

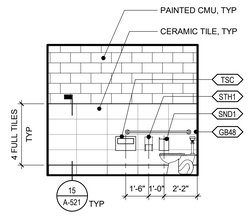
SHEET
A-338
V1

BIM 360:/018133 Mono Jail/018133_ARCHMSTR_R20_CENTRAL.rvt

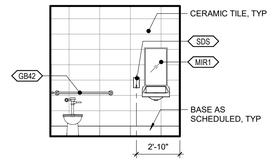
9/8/2023 8:58:14 PM



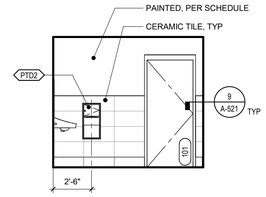
1 AREA A - RESTROOM 101
SCALE 1/4" = 1'-0"



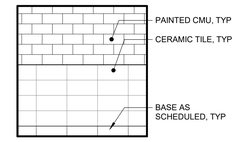
2 101 - RESTROOM (NORTH)
SCALE 1/4" = 1'-0"



3 101 - RESTROOM (EAST)
SCALE 1/4" = 1'-0"



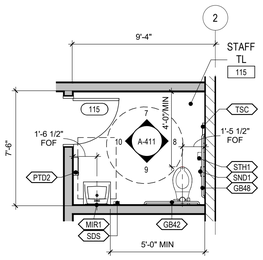
4 101 - RESTROOM (SOUTH)
SCALE 1/4" = 1'-0"



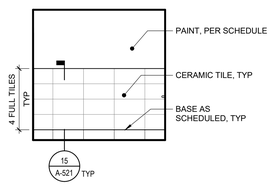
5 101 - RESTROOM (WEST)
SCALE 1/4" = 1'-0"

SHEET NOTES

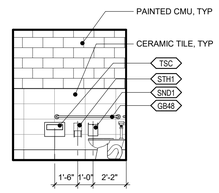
1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON. EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP
3. SEE GA SERIES OF SHEETS FOR TYPICAL PLUMBING FIXTURE, ACCESSIBILITY CLEARANCES AND ACCESSORY MOUNTING HEIGHTS AND LOCATIONS.
4. SEE A-641 FOR FINISH LEGEND AND ROOM FINISH SCHEDULES.
5. TOILET FLUSH VALVE TO BE MOUNTED ON WIDE SIDE OF TOILET.
6. ALL JOINTS OR GAPS OF 1/32" OR GREATER IN CONSTRUCTION OR BETWEEN CONSTRUCTION AND EQUIPMENT SHALL BE FILLED WITH SEALANT. PROVIDE SECURITY SEALANT IN INMATE ACCESSIBLE AREAS.
7. WITHIN INMATE CELLS/RESTROOMS , PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL FLOOR AND WALL MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES, EQUIPMENT, AND OR AROUND ALL DOORS AND WINDOWS.
8. FOR WALL TILE PATTERN, REFER TO INTERIOR FINISH LEGEND ON SHEET A-641.
9. SEE SHEET A-611 FOR ACCESSORY, FURNISHINGS, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE.
10. REFER TO ACCESSIBLE TOILET ROOM DET FOR FIXTURE LOCATIONS AND CLEARANCES. (12 / GA511)
11. FOR CASEWORK TYPES, SEE SHEET I-641.



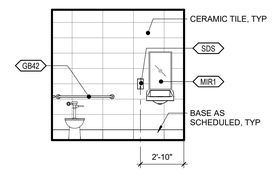
6 AREA A - STAFF TOILET 115
SCALE 1/4" = 1'-0"



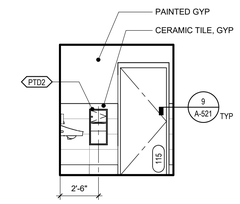
7 115 - STAFF TOILET (NORTH)
SCALE 1/4" = 1'-0"



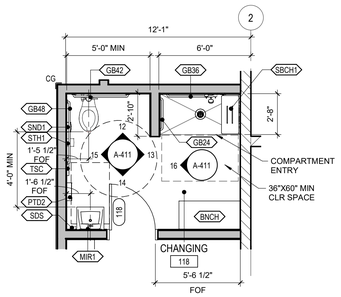
8 115 - STAFF TOILET (EAST)
SCALE 1/4" = 1'-0"



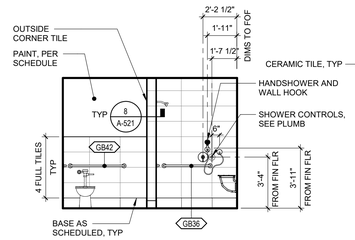
9 115 - STAFF TOILET (SOUTH)
SCALE 1/4" = 1'-0"



10 115 - STAFF TOILET (WEST)
SCALE 1/4" = 1'-0"

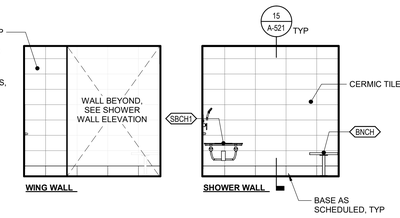


11 AREA A - CHANGING 118
SCALE 1/4" = 1'-0"

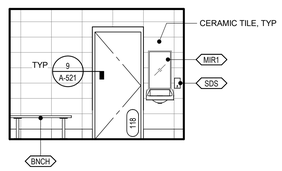


NOTE: CONTRACTOR TO LAYOUT FIXTURES AND CONFIRM FIT PRIOR TO SETTING PIPING AND FIXTURES. NOTIFY ARCHITECT IF DIMENSIONS CANNOT BE MET

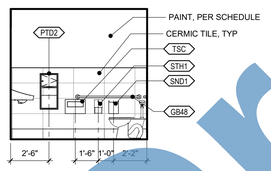
12 118 - CHANGING (NORTH)
SCALE 1/4" = 1'-0"



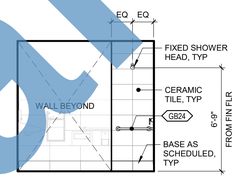
13 118 - CHANGING (EAST)
SCALE 1/4" = 1'-0"



14 118 - CHANGING (SOUTH)
SCALE 1/4" = 1'-0"



15 118 - CHANGING (WEST)
SCALE 1/4" = 1'-0"



16 118 - CHANGING (WEST)
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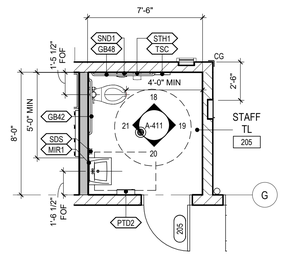
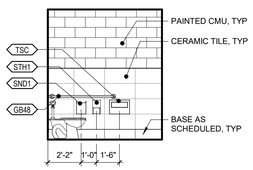
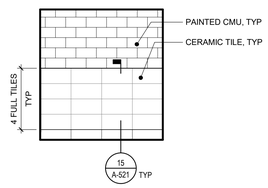


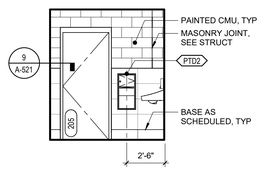
17 AREA B -STAFF TOILET 205
SCALE 1/4" = 1'-0"



18 205 - STAFF TOILET (NORTH)
SCALE 1/4" = 1'-0"



19 205 - STAFF TOILET (EAST)
SCALE 1/4" = 1'-0"



20 205 - STAFF TOILET (SOUTH)
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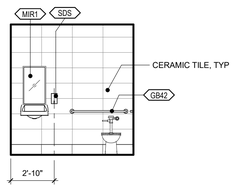

21 205 - STAFF TOILET (WEST)
SCALE 1/4" = 1'-0"

NORTH
TYPICAL ON ALL PLANS

Draft

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TITLE
LARGE SCALE VIEWS - RESTROOMS

SHEET
A-411

V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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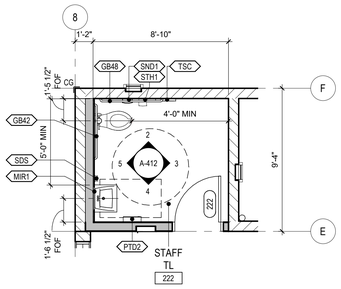

1 AREA B -STAFF TOILET 222
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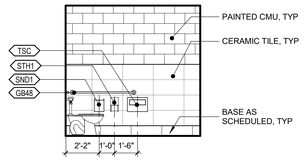
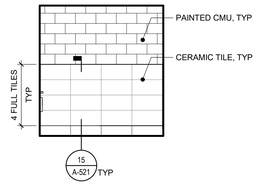


2 222 - STAFF TOILET (NORTH)
SCALE 1/4" = 1'-0"



3 222 - STAFF TOILET (EAST)
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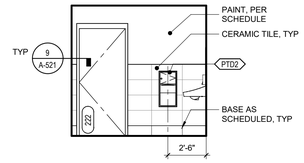

4 222 - STAFF TOILET (SOUTH)
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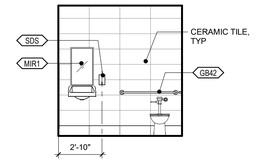
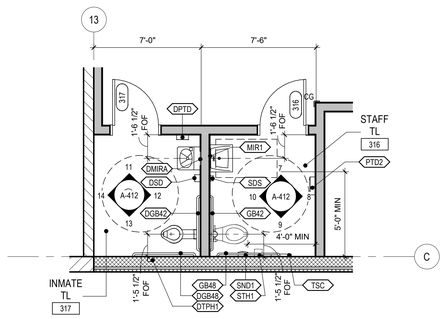


5 222 - STAFF TOILET (WEST)
SCALE 1/4" = 1'-0"

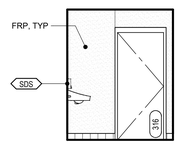
SHEET NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON. EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP
3. SEE GA SERIES OF SHEETS FOR TYPICAL PLUMBING FIXTURE, ACCESSIBILITY CLEARANCES AND ACCESSORY MOUNTING HEIGHTS AND LOCATIONS.
4. SEE A-641 FOR FINISH LEGEND AND ROOM FINISH SCHEDULES.
5. TOILET FLUSH VALVE TO BE MOUNTED ON WIDE SIDE OF TOILET.
6. ALL JOINTS OR GAPS OF 1/32" OR GREATER IN CONSTRUCTION OR BETWEEN CONSTRUCTION AND EQUIPMENT SHALL BE FILLED WITH SEALANT. PROVIDE SECURITY SEALANT IN INMATE ACCESSIBLE AREAS.
7. WITHIN INMATE CELLS/RESTROOMS , PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL FLOOR AND WALL MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES, EQUIPMENT, AND OR AROUND ALL DOORS AND WINDOWS.
8. FOR WALL TILE PATTERN, REFER TO INTERIOR FINISH LEGEND ON SHEET A-641.
9. SEE SHEET A-611 FOR ACCESSORY, FURNISHINGS, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE.
10. REFER TO ACCESSIBLE TOILET ROOM DET FOR FIXTURE LOCATIONS AND CLEARANCES. (12 / GA511)
11. FOR CASEWORK TYPES, SEE SHEET I-641.

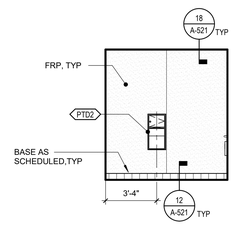
NOTES:
SECURITY SEALANT SHALL BE USED IN ALL EXPOSED AREAS SUBJECT TO CONTACT BY RESIDENTS INCLUDING BUT NOT LIMITED TO:
- DETENTION DOORS AND FRAMES
- DETENTION FURNISHINGS AND ACCESSORIES
- SECURITY PLUMBING
- WALL TO DECKING INTERSECTIONS
- EXPOSED DECKING
- SEAMS IN SLEEPING ROOMS AND MEZZANINE
- CAST BUNK JOINTS
- CONCRETE MASONRY UNIT CONTROL JOINTS AT INTERIORS
- SECURITY ELECTRONIC DEVICES



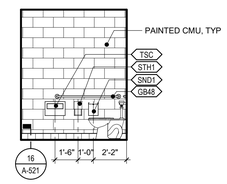
6 AREA C- STAFF TOILET 316/ INMATE TOILET 317
SCALE 1/4" = 1'-0"



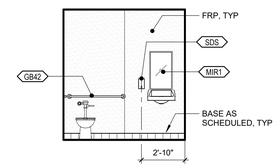
7 316 - STAFF TL (NORTH)
SCALE 1/4" = 1'-0"



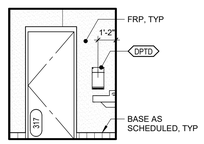
8 316 - STAFF TL (EAST)
SCALE 1/4" = 1'-0"



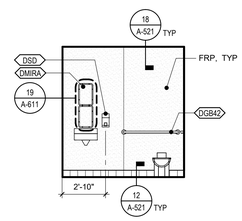
9 316 - STAFF TL (SOUTH)
SCALE 1/4" = 1'-0"



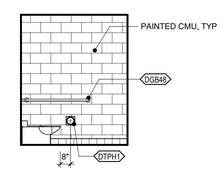
10 316 - STAFF TL (WEST)
SCALE 1/4" = 1'-0"



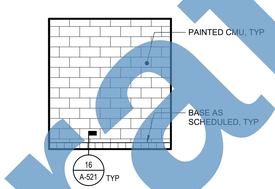
11 317 - INMATE TL (NORTH)
SCALE 1/4" = 1'-0"



12 317 - INMATE TL (EAST)
SCALE 1/4" = 1'-0"



13 317 - INMATE TL (SOUTH)
SCALE 1/4" = 1'-0"



14 317 - INMATE TL (WEST)
SCALE 1/4" = 1'-0"

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NORTH
TYPICAL ON ALL PLANS

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE
LARGE SCALE VIEWS - RESTROOMS

SHEET
A-412
V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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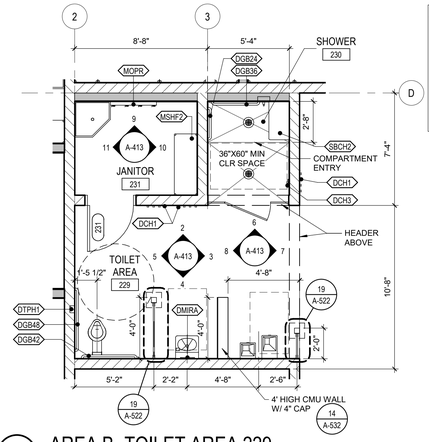

NOTES:
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- DETENTION FURNISHINGS AND ACCESSORIES
- SECURITY PLUMBING
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- EXPOSED DECKING
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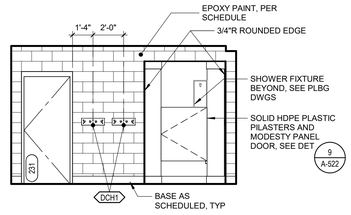
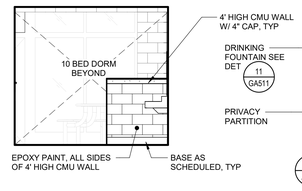
- CONCRETE MASONRY UNIT CONTROL JOINTS AT INTERIORS
- SECURITY ELECTRONIC DEVICES

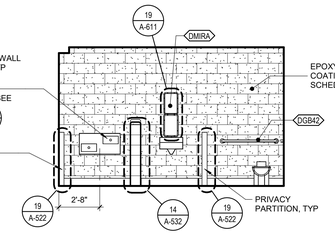
1 AREA B -TOILET AREA 229
SCALE 1/4" = 1'-0"



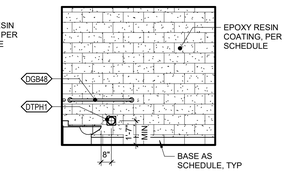
2 229 - TOILETS AREA (NORTH)
SCALE 1/4" = 1'-0"



3 229 - TOILETS AREA (EAST)
SCALE 1/4" = 1'-0"



4 229 - TOILET AREA (SOUTH)
SCALE 1/4" = 1'-0"



5 229 - TOILET AREA (WEST)
SCALE 1/4" = 1'-0"

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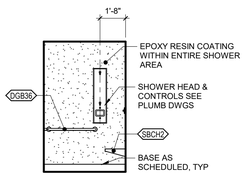
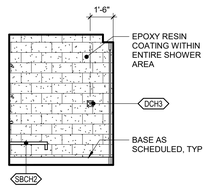
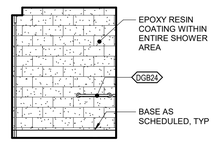


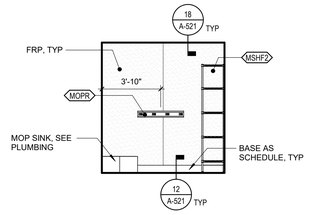
6 230 - SHOWER (NORTH)
SCALE 1/4" = 1'-0"



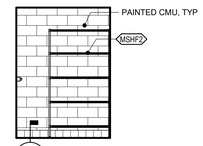
7 230 - SHOWER (EAST)
SCALE 1/4" = 1'-0"



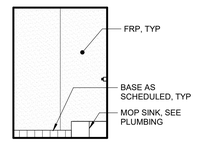
8 230 - SHOWER (WEST)
SCALE 1/4" = 1'-0"



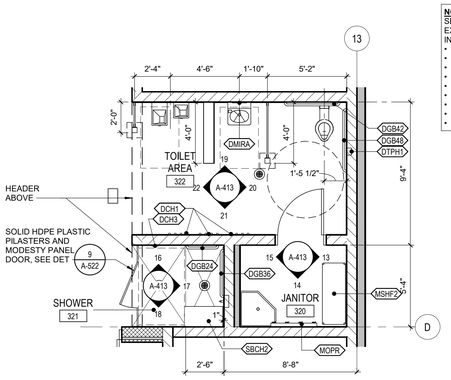
9 231 - JANITOR (NORTH)
SCALE 1/4" = 1'-0"



10 231 - JANITOR (EAST)
SCALE 1/4" = 1'-0"



11 231 - JANITOR (WEST)
SCALE 1/4" = 1'-0"



NOTES:
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- SECURITY PLUMBING
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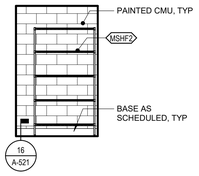
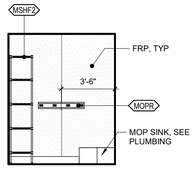
- SECURITY ELECTRONIC DEVICES

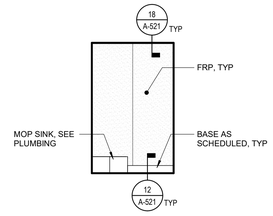
12 AREA C -TOILET AREA 322
SCALE 1/4" = 1'-0"



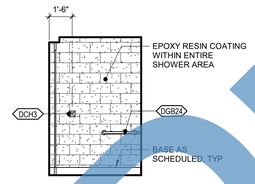
13 320 - JANITOR (EAST)
SCALE 1/4" = 1'-0"



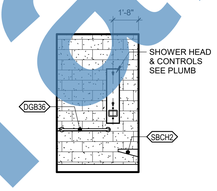
14 320 - JANITOR (SOUTH)
SCALE 1/4" = 1'-0"



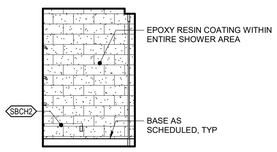
15 320 - JANITOR (WEST)
SCALE 1/4" = 1'-0"



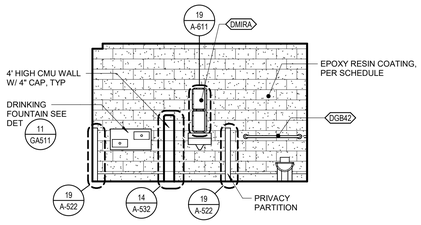
16 321 - SHOWER (NORTH)
SCALE 1/4" = 1'-0"



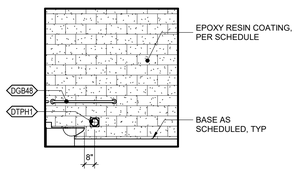
17 321 - SHOWER (EAST)
SCALE 1/4" = 1'-0"



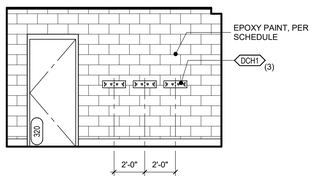
18 321 - SHOWER (SOUTH)
SCALE 1/4" = 1'-0"



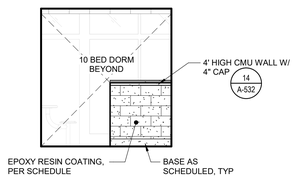
19 322 - TOILET AREA (NORTH)
SCALE 1/4" = 1'-0"



20 322 -TOILET AREA (EAST)
SCALE 1/4" = 1'-0"



21 322 - TOILET AREA (SOUTH)
SCALE 1/4" = 1'-0"



22 322 - TOILET AREA (WEST)
SCALE 1/4" = 1'-0"

NORTH
TYPICAL ON ALL PLANS

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LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

GOVMOTUS No:22-N-3854-CP-DR

AGENCY

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221 TWIN LAKES RD
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MONO COUNTY PUBLIC WORKS DEPARTMENT
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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
LARGE SCALE VIEWS - DORM RESTROOMS

SHEET
A-413
V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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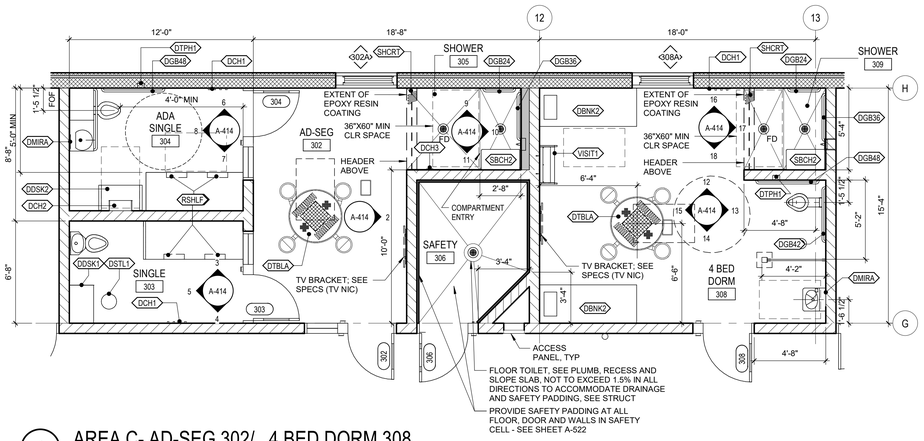

1 AREA C- AD-SEG 302/ 4 BED DORM 308
SCALE 1/4" = 1'-0"

NOTES:
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- WALL TO DECKING INTERSECTIONS
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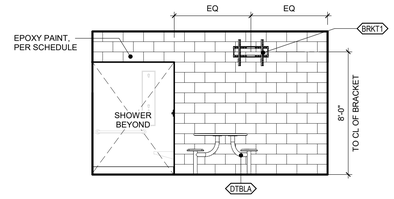
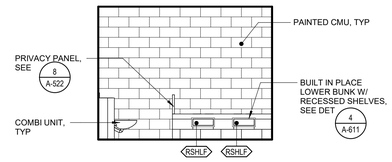
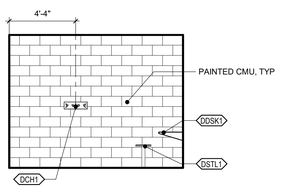
- CONCRETE MASONRY UNIT CONTROL JOINTS AT INTERIORS
- SECURITY ELECTRONIC DEVICES



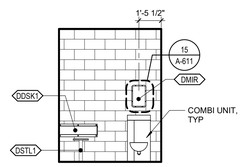
2 302 - AD-SEG (EAST)
SCALE 1/4" = 1'-0"



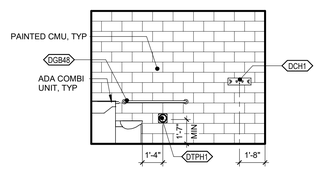
3 303 - SINGLE (NORTH)
SCALE 1/4" = 1'-0"



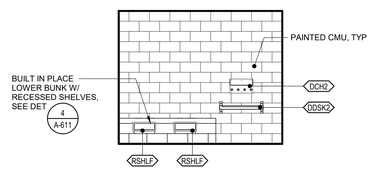
4 303 - SINGLE (SOUTH)
SCALE 1/4" = 1'-0"



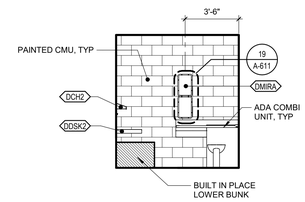
5 303 - SINGLE (WEST)
SCALE 1/4" = 1'-0"



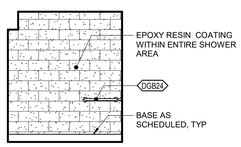
6 304 - SINGLE (NORTH)
SCALE 1/4" = 1'-0"



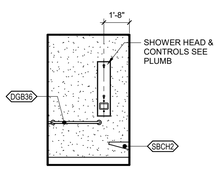
7 304 - SINGLE (SOUTH)
SCALE 1/4" = 1'-0"



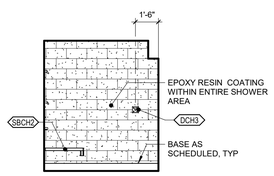
8 304 - SINGLE (WEST)
SCALE 1/4" = 1'-0"



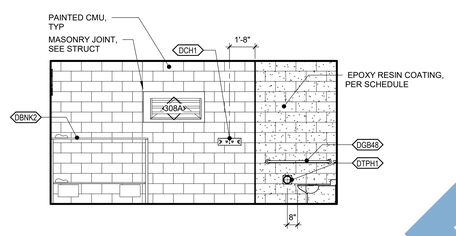
9 305 - SHOWER (NORTH)
SCALE 1/4" = 1'-0"



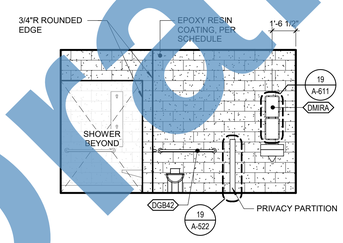
10 305 - SHOWER (EAST)
SCALE 1/4" = 1'-0"



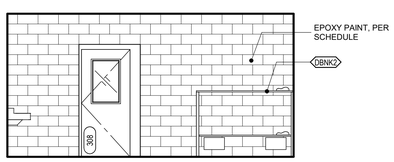
11 305 - SHOWER (SOUTH)
SCALE 1/4" = 1'-0"



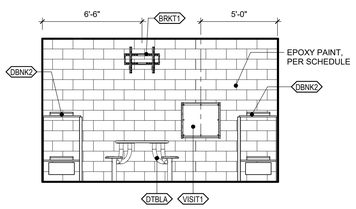
12 308 - 4 BED DORM (NORTH)
SCALE 1/4" = 1'-0"



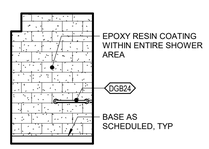
13 308 - 4 BED DORM (EAST)
SCALE 1/4" = 1'-0"



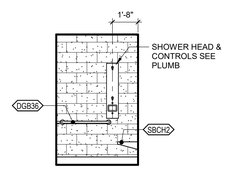
14 308 - 4 BED DORM (SOUTH)
SCALE 1/4" = 1'-0"



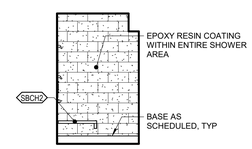
15 308 - 4 BED DORM (WEST)
SCALE 1/4" = 1'-0"



16 309 - SHOWER (NORTH)
SCALE 1/4" = 1'-0"



17 309 - SHOWER (EAST)
SCALE 1/4" = 1'-0"



18 309 - SHOWER (SOUTH)
SCALE 1/4" = 1'-0"

NORTH
TYPICAL ON ALL PLANS

SHEET NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON. EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP
3. SEE GA SERIES OF SHEETS FOR TYPICAL PLUMBING FIXTURE, ACCESSIBILITY CLEARANCES AND ACCESSORY MOUNTING HEIGHTS AND LOCATIONS.
4. SEE A-641 FOR FINISH LEGEND AND ROOM FINISH SCHEDULES.
5. TOILET FLUSH VALVE TO BE MOUNTED ON WIDE SIDE OF TOILET.
6. ALL JOINTS OR GAPS OF 1/32" OR GREATER IN CONSTRUCTION OR BETWEEN CONSTRUCTION AND EQUIPMENT SHALL BE FILLED WITH SEALANT. PROVIDE SECURITY SEALANT IN INMATE ACCESSIBLE AREAS.
7. WITHIN INMATE CELLS/RESTROOMS , PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL FLOOR AND WALL MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES, EQUIPMENT, AND OR AROUND ALL DOORS AND WINDOWS.
8. FOR WALL TILE PATTERN, REFER TO INTERIOR FINISH LEGEND ON SHEET A-641.
9. SEE SHEET A-611 FOR ACCESSORY, FURNISHINGS, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE.
10. REFER TO ACCESSIBLE TOILET ROOM DET FOR FIXTURE LOCATIONS AND CLEARANCES. (12 / GA511)
11. FOR CASEWORK TYPES, SEE SHEET I-641.

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GOVMOTUS No:22-N-3854-CP-DR

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CONSULTANT

SEAL

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221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE
LARGE SCALE VIEWS - AD-SEG AND DORM

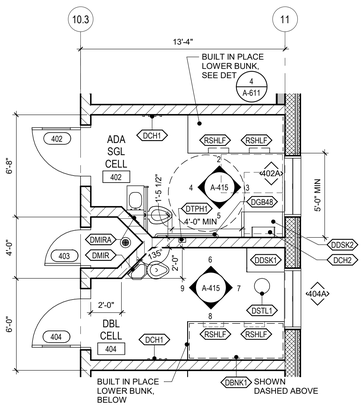
SHEET
A-414
V1

Draft

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
BIM 360://018133 Mono Jail/018133_ARCHMSTR_R20_CENTRAL.rvt
9/8/2023 8:58:58 PM

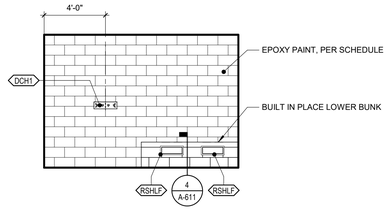
NOTES:
SECURITY SEALANT SHALL BE USED IN ALL EXPOSED AREAS SUBJECT TO CONTACT BY RESIDENTS INCLUDING BUT NOT LIMITED TO:

- DETENTION DOORS AND FRAMES
- DETENTION FURNISHINGS AND ACCESSORIES
- SECURITY PLUMBING
- WALL TO DECKING INTERSECTIONS
- EXPOSED DECKING
- SEAMS IN SLEEPING ROOMS AND MEZZANINE
- CAST BUNK JOINTS
- CONCRETE MASONRY UNIT CONTROL JOINTS AT INTERIORS
- SECURITY ELECTRONIC DEVICES



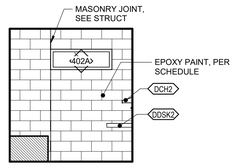
1 TYPICAL DAYROOM CELLS
SCALE 1/4" = 1'-0"

TYP FOR ROOMS
426 - ADA SGL CELL (NORTH OPH)



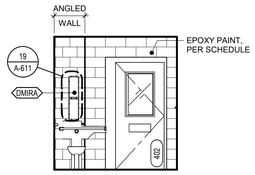
2 402 - ADA SGL CELL (NORTH)
SCALE 1/4" = 1'-0"

TYP FOR ROOMS
426 - ADA SGL CELL (WEST OPH)



3 402 - ADA SGL CELL (EAST)
SCALE 1/4" = 1'-0"

TYP FOR ROOMS
426 - ADA SGL CELL (EAST OPH)



4 402 - ADA SGL CELL (WEST)
SCALE 1/4" = 1'-0"

SHEET NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
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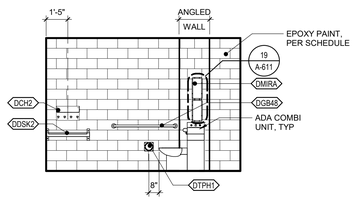
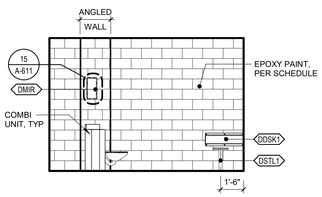
10. REFER TO ACCESSIBLE TOILET ROOM DET FOR FIXTURE LOCATIONS AND CLEARANCES. (12 / GA511)
11. FOR CASEWORK TYPES, SEE SHEET I-641.

TYP FOR ROOMS
426 - ADA SGL CELL (SOUTH OPH)



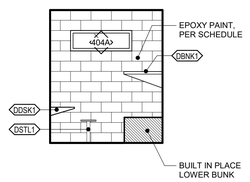
5 402 - ADA SGL CELL (SOUTH)
SCALE 1/4" = 1'-0"

TYP FOR ROOMS
405 - DBL CELL (SOUTH OPH)
407 - DBL CELL (NORTH)
410 - DBL CELL (WEST OPH)
412 - DBL CELL (EAST)
416 - DBL CELL (WEST OPH)
418 - DBL CELL (EAST)
421 - DBL CELL (NORTH OPH)
423 - DBL CELL (SOUTH)
424 - DBL CELL (NORTH OPH)



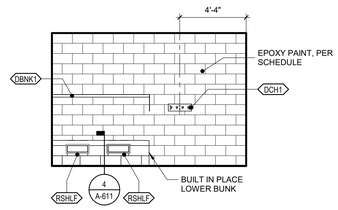
6 404 -DBL CELL (NORTH)
SCALE 1/4" = 1'-0"

TYP FOR ROOMS
405 - DBL CELL (EAST OPH)
407 - DBL CELL (EAST)
410 - DBL CELL (SOUTH OPH)
412 - DBL CELL (SOUTH)
416 - DBL CELL (SOUTH OPH)
418 - DBL CELL (SOUTH)
421 - DBL CELL (WEST OPH)
423 - DBL CELL (WEST)
424 - DBL CELL (WEST OPH)



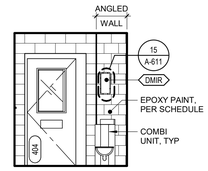
7 404 - DBL CELL (EAST)
SCALE 1/4" = 1'-0"

TYP FOR ROOMS
405 - DBL CELL (NORTH OPH)
407 - DBL CELL (SOUTH)
410 - DBL CELL (NORTH OPH)
412 - DBL CELL (WEST)
416 - DBL CELL (EAST OPH)
418 - DBL CELL (WEST)
421 - DBL CELL (SOUTH OPH)
423 - DBL CELL (NORTH)
424 - DBL CELL (SOUTH OPH)

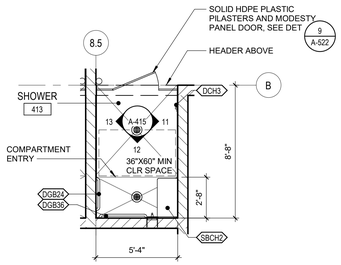


8 404 - DBL CELL (SOUTH)
SCALE 1/4" = 1'-0"

TYP FOR ROOMS
405 - DBL CELL (WEST OPH)
407 - DBL CELL (WEST)
410 - DBL CELL (NORTH OPH)
412 - DBL CELL (NORTH)
416 - DBL CELL (NORTH OPH)
418 - DBL CELL (NORTH)
421 - DBL CELL (EAST OPH)
423 - DBL CELL (EAST)
424 - DBL CELL (EAST OPH)

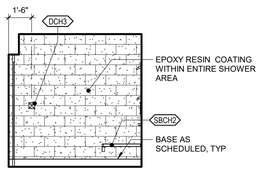


9 404 -DBL CELL (WEST)
SCALE 1/4" = 1'-0"



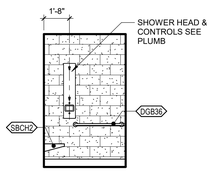
10 AREA D- SHOWER 413
SCALE 1/4" = 1'-0"

TYP FOR ROOMS
414 - SHOWER (WEST OPH)



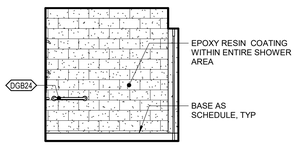
11 413 - SHOWER (EAST)
SCALE 1/4" = 1'-0"

TYP FOR ROOMS
414 - SHOWER (SOUTH OPH)



12 413 - SHOWER (SOUTH)
SCALE 1/4" = 1'-0"

TYP FOR ROOMS
414 - SHOWER (EAST OPH)



13 413 -SHOWER (WEST)
SCALE 1/4" = 1'-0"

Draft

NORTH
TYPICAL ON ALL PLANS

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2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

GOVMOTUS No:22-N-3854-CP-DR

AGENCY

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221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
LARGE SCALE VIEWS - TYPICAL HOUSING CELLS AND SHOWERS

SHEET
A-415
V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
BIM 360://018133 Mono Jail/018133_ARCHMSTR_R20_CENTRAL.rvt
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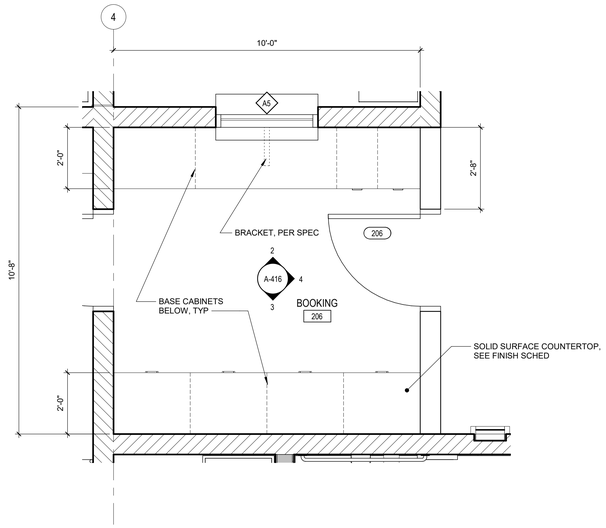

1 AREA B - BOOKING 206

SCALE 1/2" = 1'-0"

A 3D VIEW

SCALE

SHEET NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON. EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP
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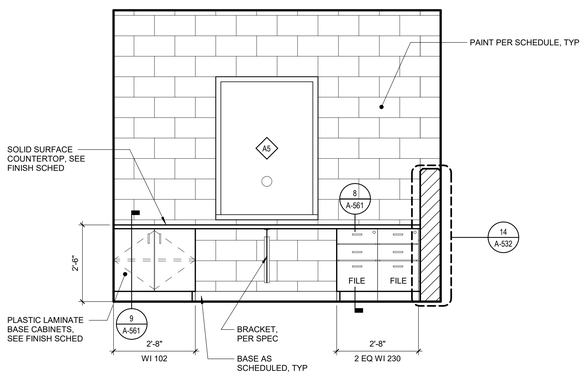
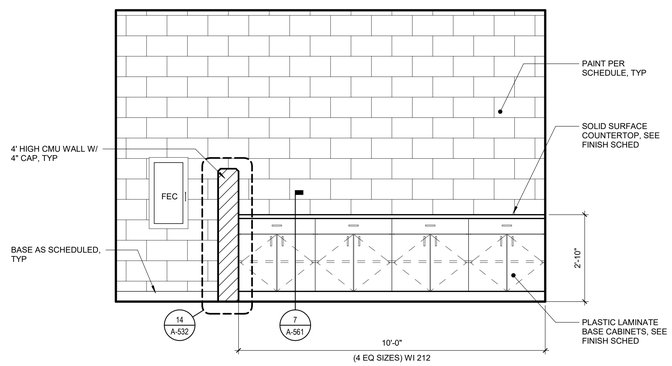


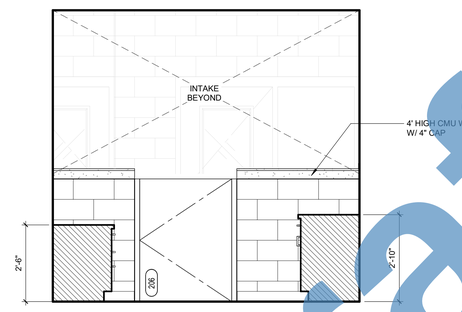
2 206 - BOOKING (NORTH)

SCALE 1/2" = 1'-0"



3 206 - BOOKING (SOUTH)

SCALE 1/2" = 1'-0"



4 206 - BOOKING - (EAST)

SCALE 1/2" = 1'-0"

Draft

NORTH

TYPICAL ON ALL PLANS

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P 916.558.1900
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GOVMOTUS No:22-N-3854-CP-DR

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C-27266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

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BRIDGEPORT, CA 95317

CLIENT
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P.O.BOX 457, BRIDGEPORT, CA 93517

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TITLE

LARGE SCALE VIEWS - BOOKING

SHEET

A-416

V1

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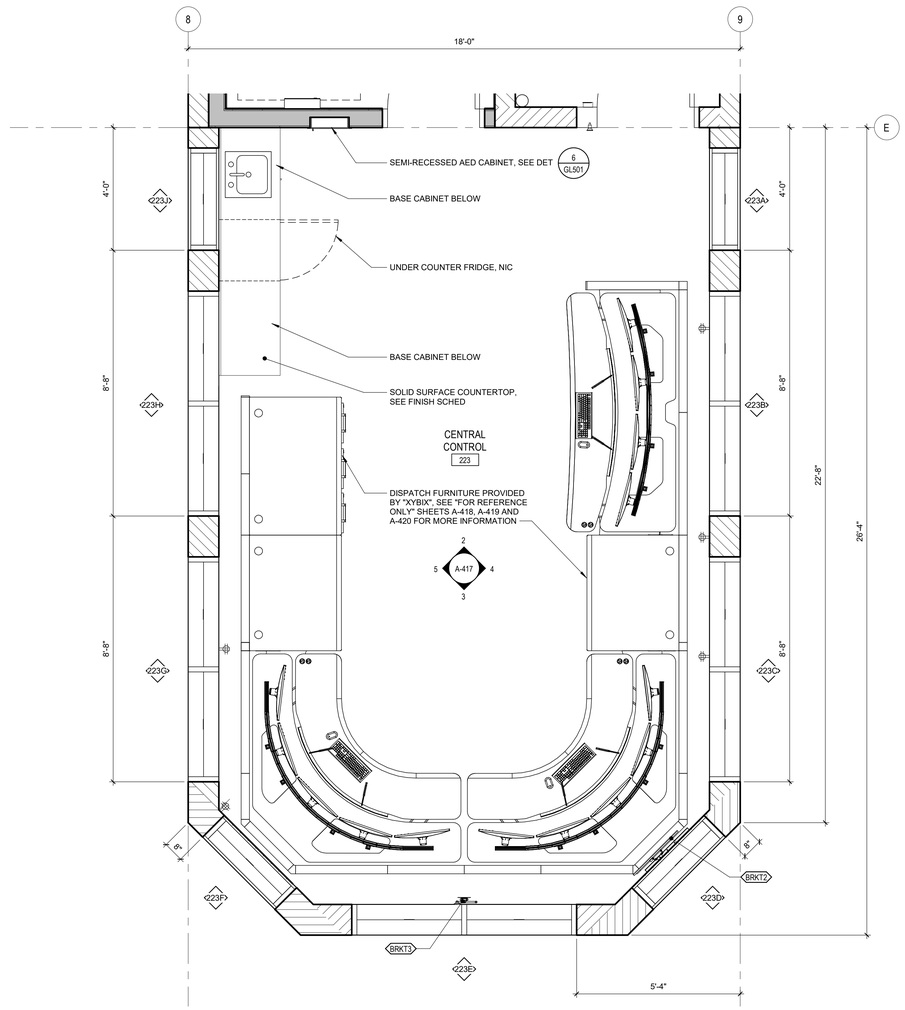
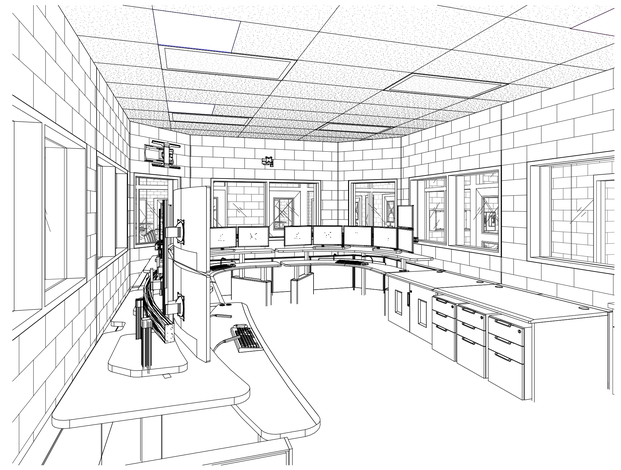
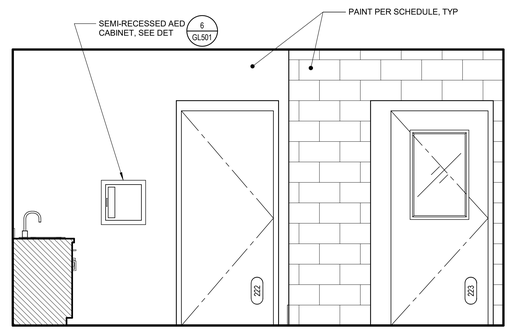


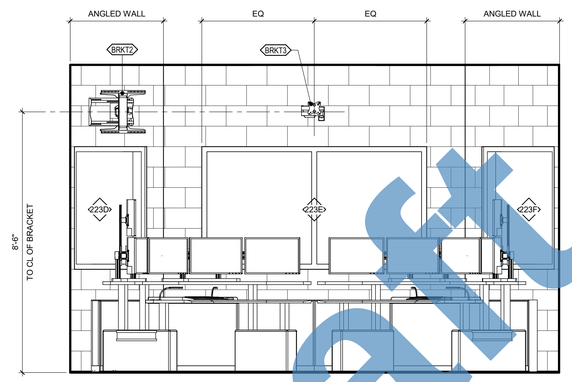
1 AREA B - CENTRAL CONTROL 223
SCALE 1/2" = 1'-0"



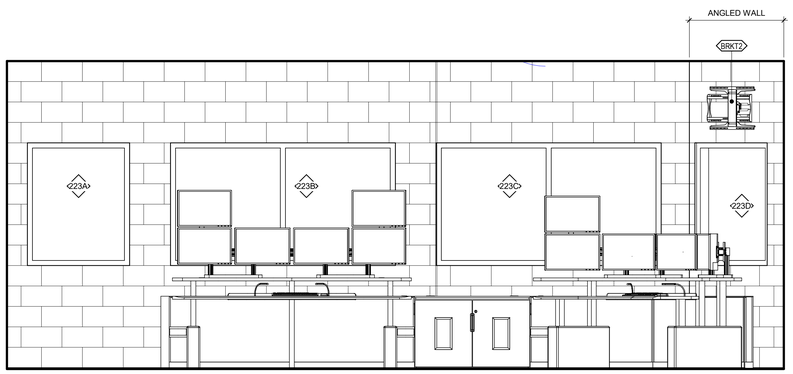
A 3D VIEW
SCALE



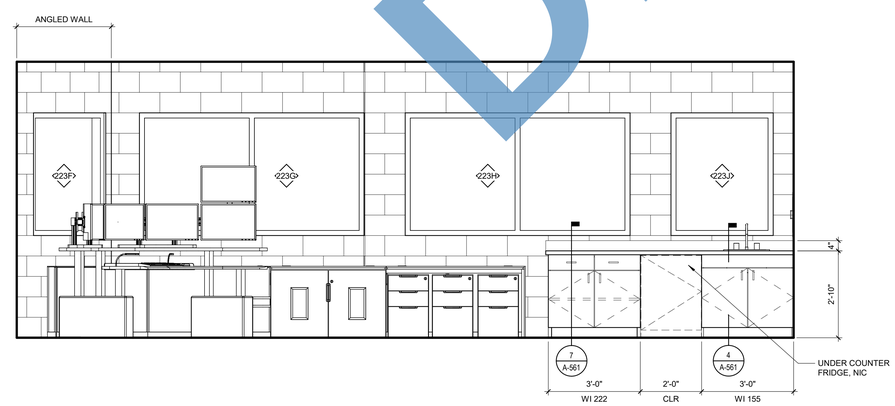
2 223 - CENTRAL CONTROL (NORTH)
SCALE 1/2" = 1'-0"



3 223 - CENTRAL CONTROL (SOUTH)
SCALE 1/2" = 1'-0"



4 223 - CENTRAL CONTROL (EAST)
SCALE 1/2" = 1'-0"



5 223 - CENTRAL CONTROL (WEST)
SCALE 1/2" = 1'-0"

NORTH
TYPICAL ON ALL PLANS

SHEET NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.
2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON. EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP
3. SEE GA SERIES OF SHEETS FOR TYPICAL PLUMBING FIXTURE, ACCESSIBILITY CLEARANCES AND ACCESSORY MOUNTING HEIGHTS AND LOCATIONS.
4. SEE A-641 FOR FINISH LEGEND AND ROOM FINISH SCHEDULES.
5. TOILET FLUSH VALVE TO BE MOUNTED ON WIDE SIDE OF TOILET.
6. ALL JOINTS OR GAPS OF 1/32" OR GREATER IN CONSTRUCTION OR BETWEEN CONSTRUCTION AND EQUIPMENT SHALL BE FILLED WITH SEALANT. PROVIDE SECURITY SEALANT IN INMATE ACCESSIBLE AREAS.
7. WITHIN INMATE CELLS/RESTROOMS , PROVIDE SECURITY SEALANT AROUND PERIMETER OF ALL FLOOR AND WALL MOUNTED FURNITURE, FIXTURES AND EQUIPMENT. THIS INCLUDES RECESSED, SEMI-RECESSED AND SURFACE MOUNTED FURNITURE, FIXTURES, EQUIPMENT, AND OR AROUND ALL DOORS AND WINDOWS.
8. FOR WALL TILE PATTERN, REFER TO INTERIOR FINISH LEGEND ON SHEET A-641.
9. SEE SHEET A-611 FOR ACCESSORY, FURNISHINGS, DETENTION ACCESSORY AND DETENTION FURNISHING SCHEDULE.
10. REFER TO ACCESSIBLE TOILET ROOM DET FOR FIXTURE LOCATIONS AND CLEARANCES. 12 GA511
11. FOR CASEWORK TYPES, SEE SHEET I-641.

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TITLE
LARGE SCALE VIEWS - CENTRAL CONTROL

SHEET
A-417
V1

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FOR REFERENCE ONLY

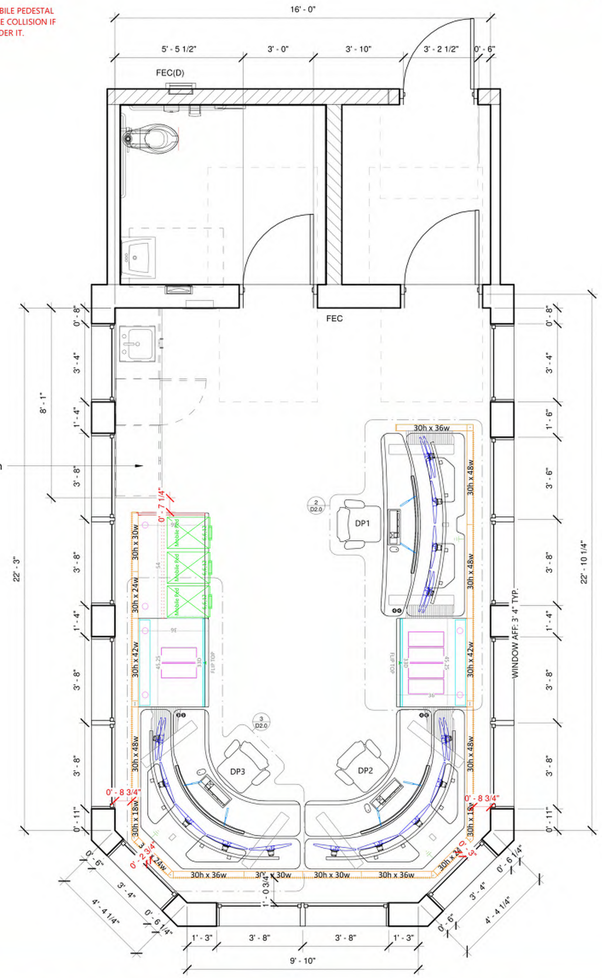
TABLE OF CONTENTS	
PAGE #	PAGE NAME
10.0	FINISH SELECTION
11.0	CABLE SHEET
D2.0	FLOOR PLAN

CEILING HEIGHT: 9'

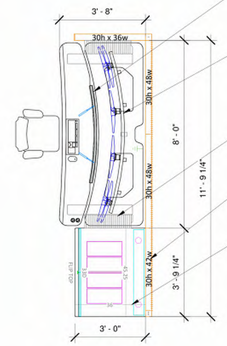
POWER/DATA COMING FROM:
WALLS

ALL ROOM DIMENSIONS PROVIDED BY CUSTOMER. CUSTOMER IS AWARE NO XYBIX MEMBER WAS ONSITE TO VERIFY DIMENSIONS. CUSTOMER IS RESPONSIBLE FOR VERIFYING ALL FURNITURE FITS THE SPACE PRIOR TO INSTALLATION AND SIGN OFF

XYBIX DOES NOT RECOMMEND LOCATING THE MOBILE PEDESTAL FILES UNDER THE WORKSTATIONS DUE TO POSSIBLE COLLISION IF WORKSTATION IS LOWERED WITH MOBILE PED UNDER IT.



1 FLOOR PLAN
3/8" = 1'-0"



Xybix 96"x44" Dual Surface Console:
Sit to stand adjustment range of 22"-48" AFF, with L5 Table Base

Datadock: Keyboard surface cable organizer, accommodates the following: (8) USB Ports & (1) CAT6 Port

"Rollervision" Monitor Mounting System: 10" focal depth adjustment, accommodates the following monitors left to right:
Top Row: 24", 24"
Bottom Row: 24", 24", 24", 24"

Cable Management Bridge: Cable organization from desk to CPU Cabinet

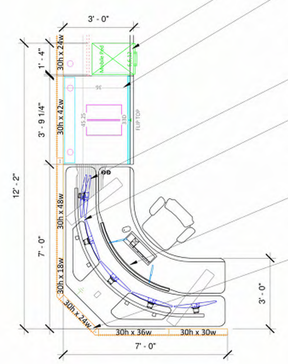
30"H Panel System: No sound absorption properties

45.25"W Shared CPU Cabinet under Flip Top Worksurface: front locking doors, internal fixed shelf, (2) silent 45 CFM fans for active ventilation.
CPU's Per Position:
(2) 7.5"W x 18"H x 18"D

Grounding: R56

Manually Controlled (max 2 Components)
Task Light: (2) Dimmable lights with flexible mounting arm on keyboard surface.

2 TYPICAL STRAIGHT WORKSTATION
3/8" = 1'-0"



Xybix 84"x44" Dual Surface Console:
Sit to stand adjustment range of 22"-48" AFF, with L5 Table Base

16"W Mobile Pedestal: 6", 6", 12" drawers

45.25"W CPU Cabinet under Flip Top Worksurface: front locking doors, internal fixed shelf, (2) silent 45 CFM fans for active ventilation.
CPU's Per Position:
(2) 7.5"W x 18"H x 18"D

Cable Management Bridge: Cable organization from desk to CPU Cabinet

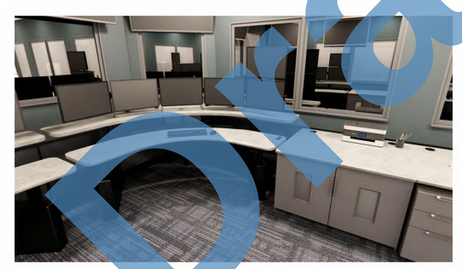
"Rollervision" Monitor Mounting System: 10" focal depth adjustment, accommodates the following monitors left to right:
Top Row: 24"
Bottom Row: 24", 24", 24", 24", 24"

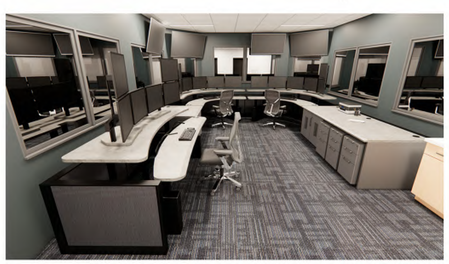
Datadock: Keyboard surface cable organizer, accommodates the following: (8) USB Ports & (1) CAT6 Port

30"H Panel System: No sound absorption properties

Grounding: R56

Manually Controlled (max 2 Components)
Task Light: (2) Dimmable lights with flexible mounting arm on keyboard surface.





3 TYPICAL CURVED WORKSTATION
3/8" = 1'-0"

Draft

SIGN OFF APPROVAL: Furniture orders and product installation shall not proceed until the Client has given approval to these documents. Approval of the Client shall constitute approval of the drawings for contents, scope of work and all dimensions regarded by the Client as being necessary to the use of space, furnishings and equipment. Furniture orders, or product installation authorized by the Client from these documents, shall be interpreted by XYBIX as approval in full to these documents by the Client. Revisions after approval of these documents shall result in additional costs.

Signature:_____ Title:_____ Date:_____

REVISIONS

REV	DESCRIPTION	DATE	DESIGNER
0	Drawing Creation	04.26.23	AM
1	Updated the straight workstation to a 96" W table, updated CPU cab for DP3 and added a bookcase between DP2 and DP3 to get the panels closer to the wall.	05.09.23	AM
2	Removed Bookcase between DP2 and DP3 and updated monitor configuration fo DP1.	05.17.23	AM

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Sales : Brittany Williams
Email : BrittanyW@xybix.com
Designer : Aviva Mucha
Email. : AvivaM@xybix.com

Mono County Jail
221 Twin Lakes Rd
Bridgeport, CA 95317

Opportunity: 0027857
Carpet Opp: N/A
Drawing Name: FLOOR PLAN
SHEET: D2.0 SCALE: As indicated

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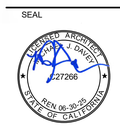

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MONO COUNTY NEW JAIL

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LARGE SCALE VIEWS - CENTRAL CONTROL - FOR REFERENCE ONLY

SHEET
A-418

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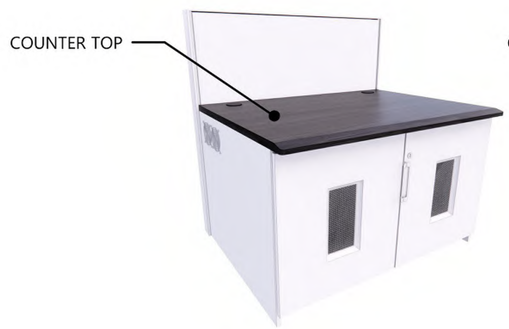
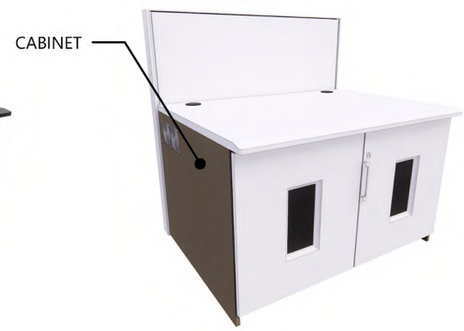
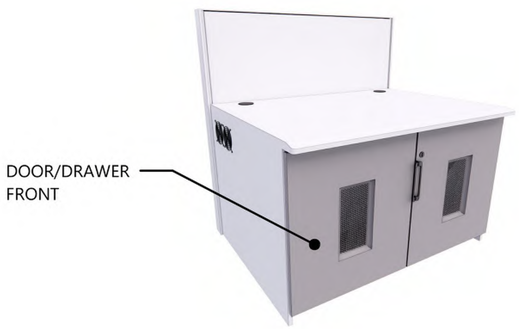
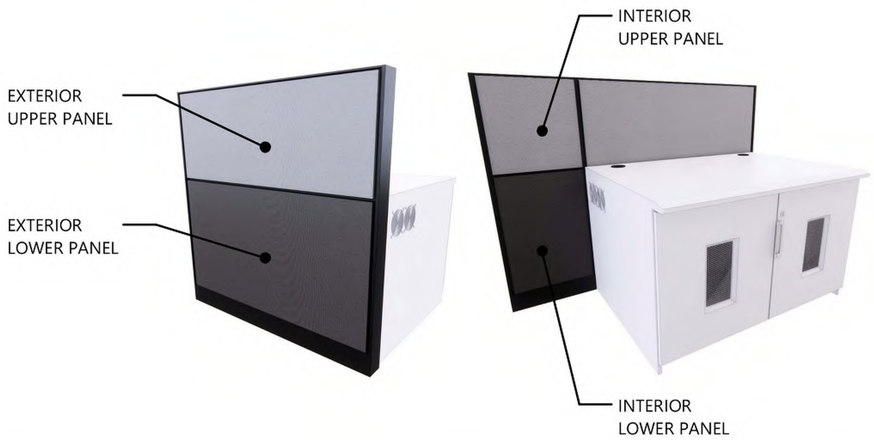
FINISH LOCATIONS









FINISH SELECTIONS

Panel Trim : Black
Interior Upper Panel : .N/A
Interior Lower Panel : .
Exterior Upper Panel : .N/A
Exterior Lower Panel : .
Counter Top : .
Door & Drawer Front : .
Cabinet : .
Edgeband : .
Handle : Eagle Silver

TO BE DETERMINED

Interior Upper Panel	Exterior Upper Panel	Counter Top	Handle
N/A	N/A		SILVER

Interior Lower Panel	Exterior Lower Panel	Cabinet	Door/Drawer Front

CARPET SELECTIONS

Carpet : .N/A
Cove Base : .N/A
Installation Method : .N/A

Carpet	Cove Base	Installation Method
N/A	N/A	N/A

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Sales : Brittany Williams
Email : BrittanyW@xybix.com
Designer : Aviva Mucha
Email. : AvivaM@xybix.com

Mono County Jail
221 Twin Lakes Rd
Bridgeport, CA 95317

Opportunity:	0027857
Carpet Opp:	N/A
Drawing Name:	FINISH SELECTION
SHEET: 10.0	SCALE: 3/8" = 1'-0"

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LARGE SCALE VIEWS - CENTRAL CONTROL - FOR REFERENCE ONLY

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CABLE EXTENSIONS **(PER POSITION)**

POSITION(S) TYPE: DISPATCH

DUAL SURFACE DATADOCK CABLES (For Keyboard, Mouse and Phone connections)

CABLE ADAPTOR TYPE	DUAL USB (2) (Cable Managed to CPU Cabinet) Keyboard & Mouse	CHARGE ONLY - DUAL USB (2) (Cable Managed to Power Outlet) Cell Phone charging	CAT6 (Max. 2) (Cable Managed to CPU Cabinet) Phone ONLY not for Networking
QUANTITY	8 Total	N/A	1 Total

Datadock has (5) additional slots for expansion if more than (8) USB's and (1) CAT6 is needed. Please note that additional cables will be charged separately.

MONITOR SURFACE CABLES

CABLE TYPE	VGA Male / Female Extension Standard Connection for monitors.	DVI-D Male / Female Extension Typical for Hi-Resolution	DVI-I 10' Max Length Male / Female Extension Typical for Hi-Resolution	HDMI Male / Male Extension Typical for Hi-Resolution
QUANTITY				

CABLE TYPE	Display Port Male / Male Extension Typical for Hi-Resolution	Display Port to Mini Display Port	USB	AUDIO Typical for Speakers
QUANTITY				

TO BE DETERMINED

KEYBOARD SURFACE CABLES (ONLY applies for Monitor or Touchscreen sitting on Keyboard Surface)

CABLE TYPE	VGA Male / Female Extension Standard Connection for monitors.	DVI-D Male / Female Extension Typical for Hi-Resolution	DVI-I 10' Max Length Male / Female Extension Typical for Hi-Resolution	HDMI Male / Male Extension Typical for Hi-Resolution	Display Port Male / Male Extension Typical for Hi-Resolution	USB Keyboard & Mouse	CAT6 Phone ONLY
QUANTITY							

NOT APPLICABLE

OPTIONAL ITEMS FOR MONITOR SURFACE (EX: CABLE ADAPTORS, USB'S)

CABLE ADAPTOR TYPE	TO	TO		
QUANTITY				

If different cable connector types are required it is your responsibility to contact your Designer or Sales Rep. You agree that any changes to this order following receipt of sign-off drawing and PO may result in additional cost that will be expensed to the client.

Signature: _____ Date: _____

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8207 SouthPark Circle
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Sales : Brittany Williams
Email : BrittanyW@xybix.com
Designer : Aviva Mucha
Email. : AvivaM@xybix.com

Mono County Jail
221 Twin Lakes Rd
Bridgeport, CA 95317

Opportunity: 0027857
Carpet Opp: N/A
Drawing Name: CABLE SHEET

SHEET: 11.0
SCALE:

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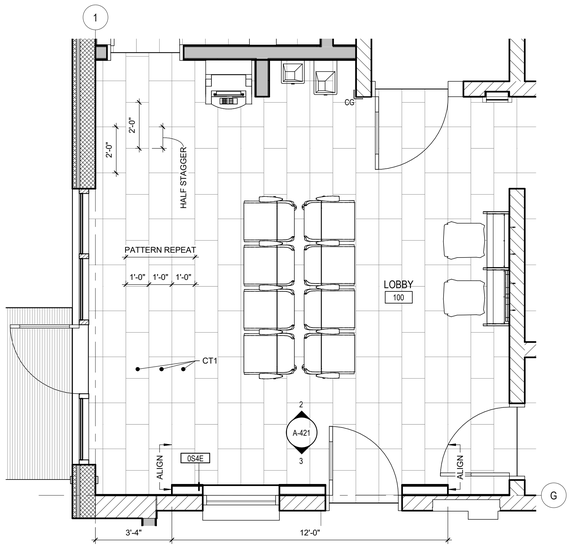
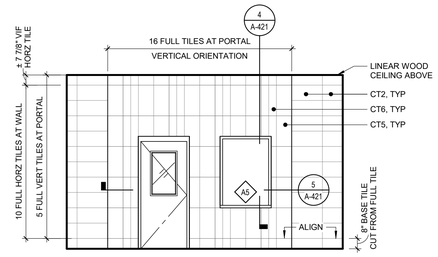


1 AREA A - LOBBY 101 FLOORING PATTERN
SCALE 3/8" = 1'-0"

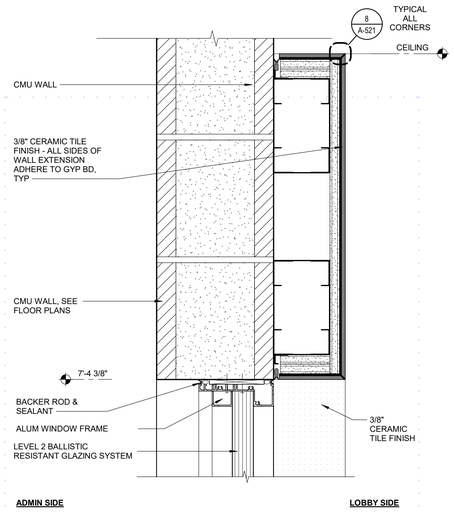
NORTH

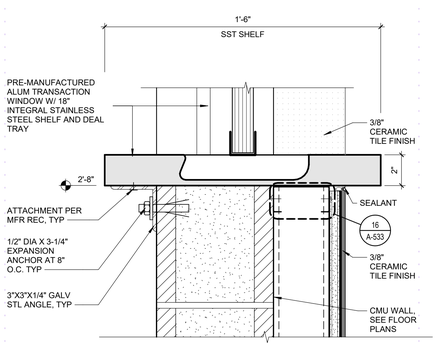
TYPICAL ON ALL PLANS

2 ENLARGED VIEW - 100 - LOBBY (NORTH)
SCALE 1/4" = 1'-0"



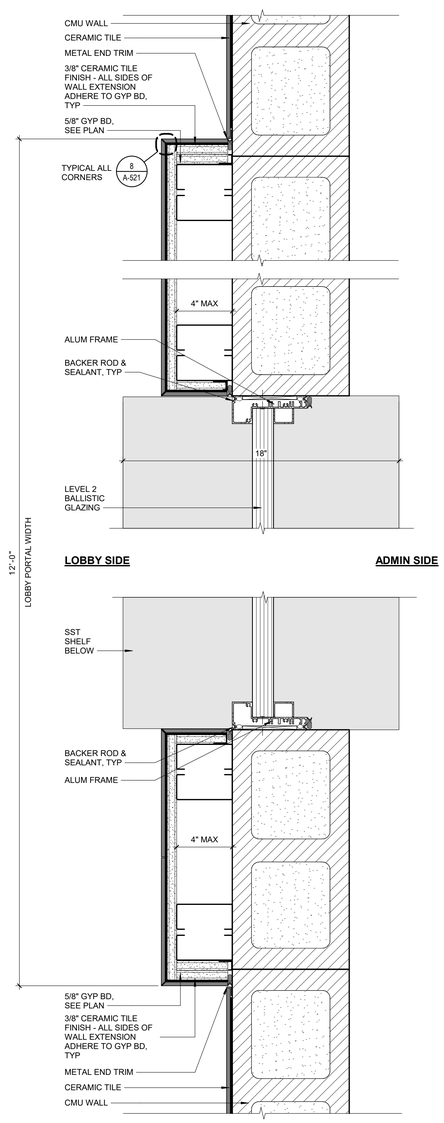
3 ENLARGED VIEW - 100 - LOBBY (SOUTH)
SCALE 1/4" = 1'-0"



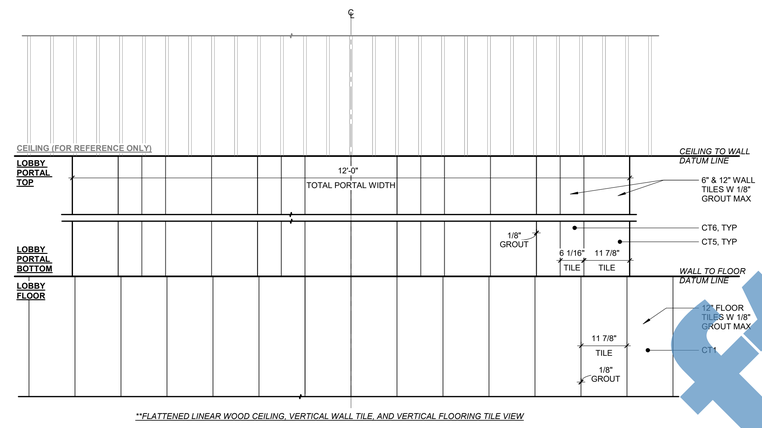


4 BALLISTIC GLAZING AND WALL DTL-HEAD & SILL
3" = 1'-0"

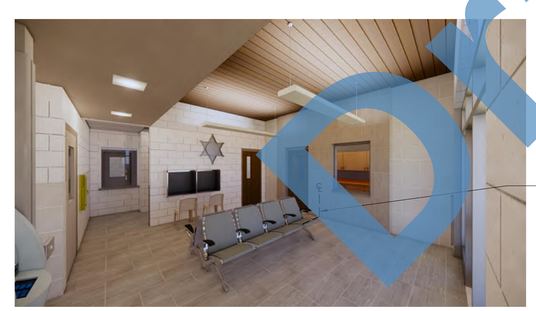
?DRS TRACKING NUMBER?
?YYMMDD?.Q1



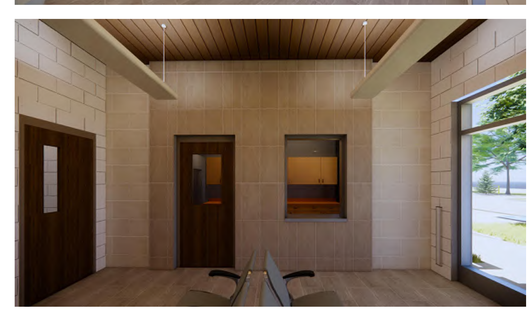
5 BALLISTIC GLAZING AND WALL DETAIL - JAMB
SCALE 3" = 1'-0"



6 LOBBY CEILING, WALL, FLOOR MATERIAL CORRELATION
SCALE 3/4" = 1'-0"



REFER TO DETAIL 6
ON SHEET FOR WALL TO
FLOOR MATERIAL
CORRELATION



7 LOBBY RENDERINGS (REPRESENTATIONAL ONLY)
NTS

Draft

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2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS
DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
LARGE SCALE
VIEWS - LOBBY
PORTAL

SHEET
A-421

V1

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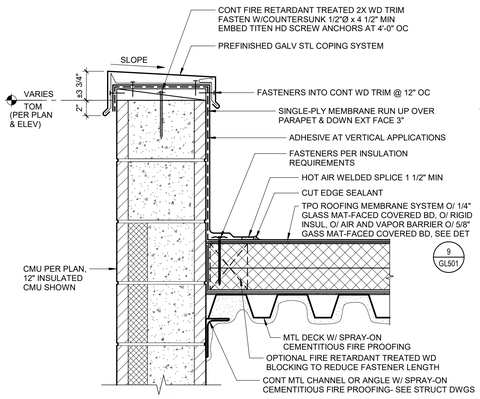
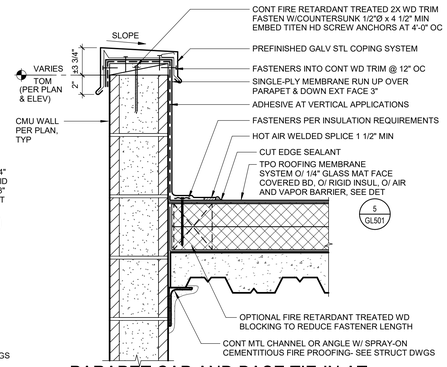


1 PARAPET CAP AND BASE TIE-IN AT 12" INSULATED CMU

1 1/2" = 1'-0"

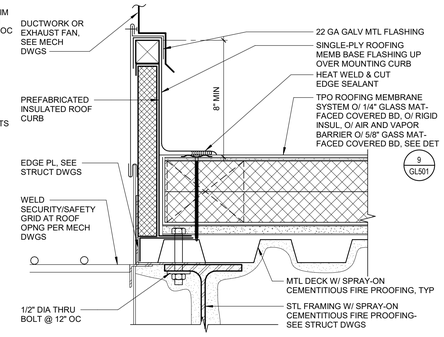
160711.Q2



5 PARAPET CAP AND BASE TIE-IN AT NON-INSULATED CMU

1 1/2" = 1'-0"

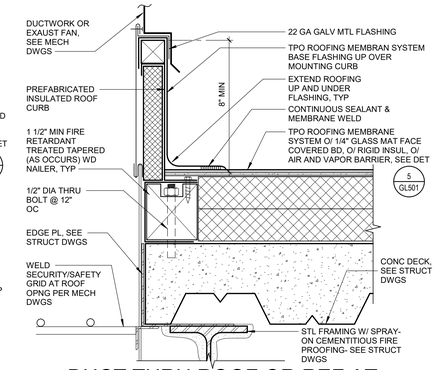
Q2



9 DUCT THRU ROOF OR REF AT MTL DECK ROOF

3" = 1'-0"

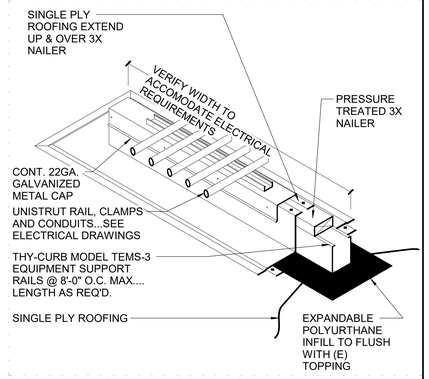
6/15/2016.Q1



13 DUCT THRU ROOF OR REF AT CONC ROOF

3" = 1'-0"

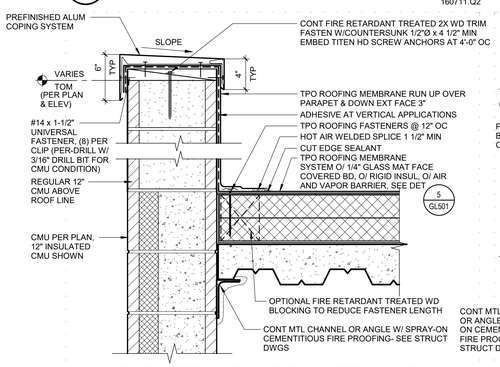
6/15/2016.Q1



12 CONDUIT CURB ON ROOF

N.T.S.

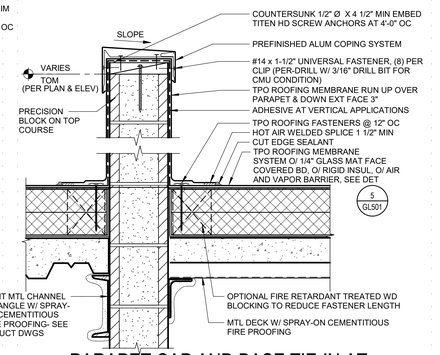
Q1



2 PARAPET CAP AND BASE TIE-IN AT 12" INSULATED CMU

1 1/2" = 1'-0"

200709.Q2

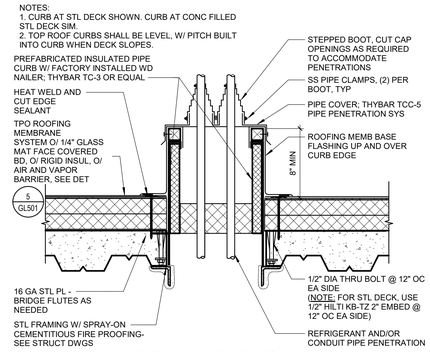


6 PARAPET CAP AND BASE TIE-IN AT NON-INSULATED CMU

1 1/2" = 1'-0"

Q2

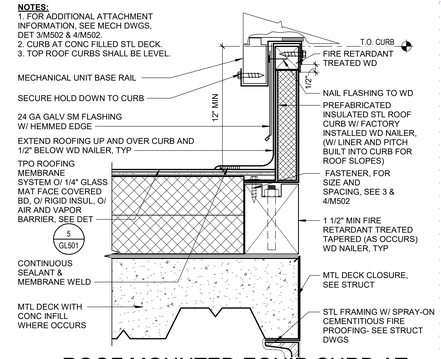
NOTES:
1. CURB AT STL DECK SHOWN. CURB AT CONC FILLED STL DECK SIM.
2. TOP ROOF CURBS SHALL BE LEVEL, W/ PITCH BUILT INTO CURB WHEN DECK SLOPES.



15 MULTIPLE CONDUIT/PIPE BOOT

1 1/2" = 1'-0"

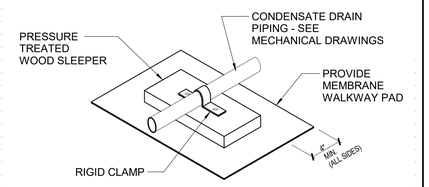
6/15/2016.Q1



14 ROOF MOUNTED EQUIP CURB AT CONC ROOF

3" = 1'-0"

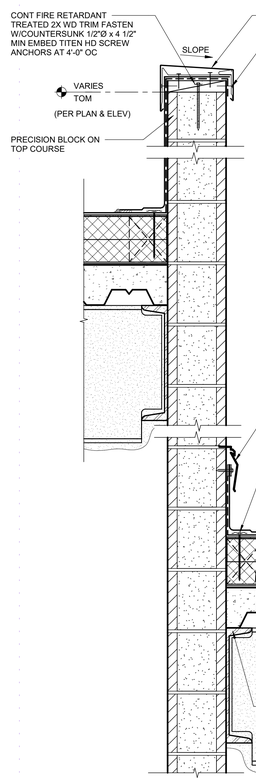
6/15/2016.Q1



16 CONDENSATE DRAIN ON ROOF

N.T.S.

Q1

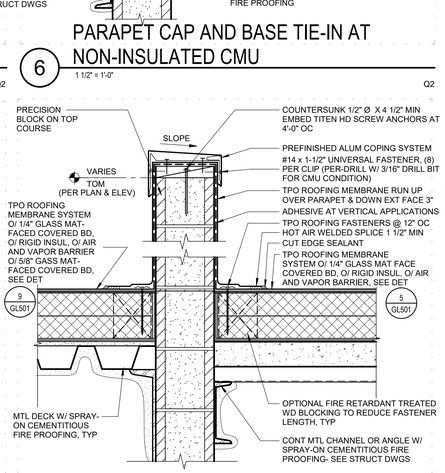


3 PARAPET AT V. SALLY/INTAKE

1 1/2" = 1'-0"

?DRS TRACKING NUMBER?

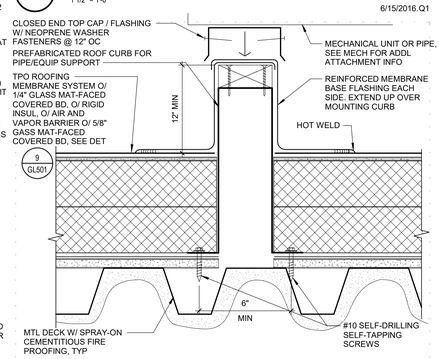
?XYMMDD? Q1



7 PARAPET AT MTL DECK/CONC ROOF

1 1/2" = 1'-0"

Q2

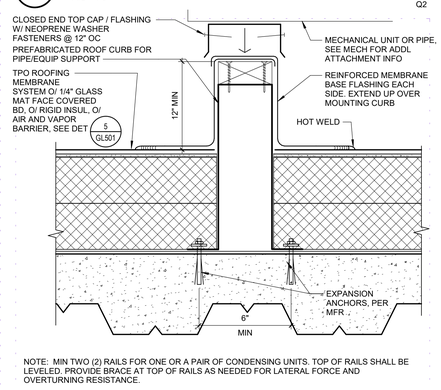


NOTE: MIN TWO (2) RAILS FOR ONE OR A PAIR OF CONDENSING UNITS. TOP OF RAILS SHALL BE LEVELED. PROVIDE BRACE AT TOP OF RAILS AS NEEDED FOR LATERAL FORCE AND OVERTURNING RESISTANCE.

18 PIPE/EQUIP RAIL AT MTL DECK ROOF

3" = 1'-0"

12/04/2015.Q1



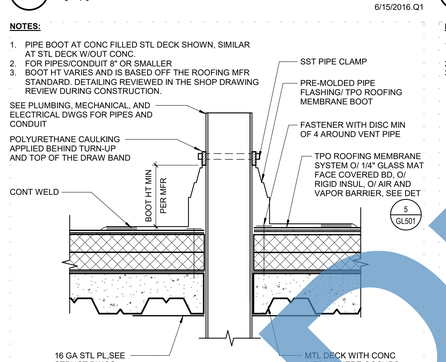
NOTE: MIN TWO (2) RAILS FOR ONE OR A PAIR OF CONDENSING UNITS. TOP OF RAILS SHALL BE LEVELED. PROVIDE BRACE AT TOP OF RAILS AS NEEDED FOR LATERAL FORCE AND OVERTURNING RESISTANCE.

8 PIPE/EQUIP RAIL AT CONC ROOF

3" = 1'-0"

12/04/2015.Q1

NOTES:
1. FOR ADDITIONAL ATTACHMENT INFORMATION, SEE MECH DWGS, DET 3/M502 & 4/M502.
2. CURB AT CONC FILLED STL DECK.
3. TOP ROOF CURBS SHALL BE LEVEL.

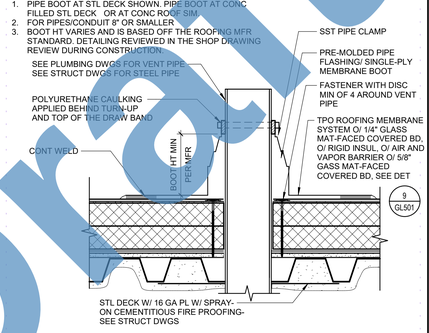


11 PIPE/CONDUIT THRU CONC ROOF

1 1/2" = 1'-0"

12/07/2015.Q1

NOTES:
1. PIPE BOOT AT STL DECK SHOWN. PIPE BOOT AT CONC FILLED STL DECK OR AT CONC ROOF SIM.
2. FOR PIPES/CONDUIT 8" OR SMALLER
3. BOOT HT VARIES AND IS BASED OFF THE ROOFING MFR STANDARD. DETAILING REVIEWED IN THE SHOP DRAWING REVIEW DURING CONSTRUCTION.



17 PIPE/CONDUIT THRU ROOF AT MTL DECK ROOF

1 1/2" = 1'-0"

12/07/2015.Q1

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SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
DETAILS - EXTERIOR

SHEET
A-511

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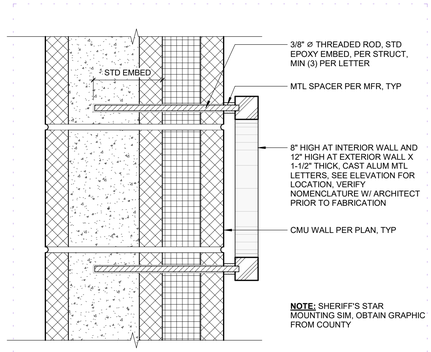
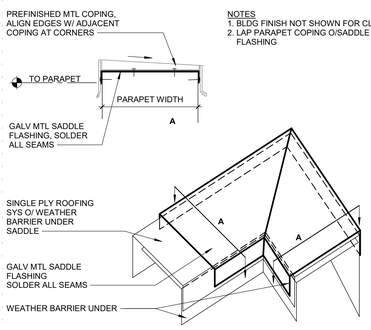
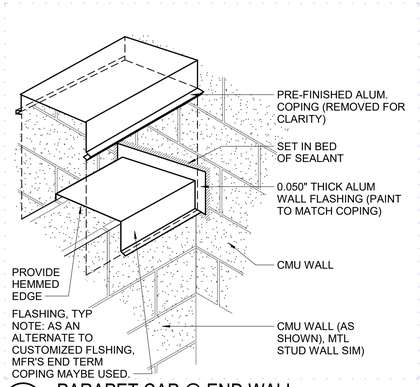


1 BUILDING SIGNAGE - CMU MOUNTED
3" = 1'-0"
Q2

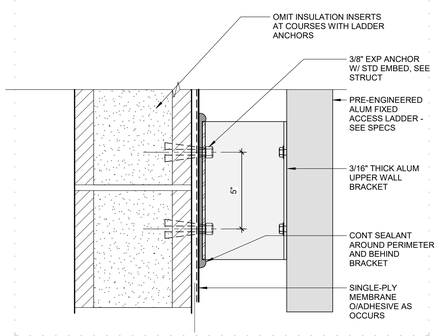


NOTES
1. BLDG FINISH NOT SHOWN FOR CLARITY
2. LAP PARAPET COPING O/SADDLE FLASHING

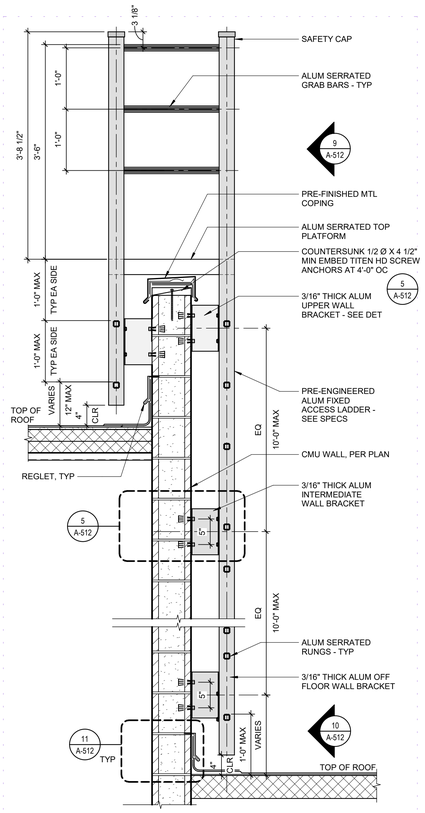
2 ROOF - SADDLE FLASHING AT PARAPET
1 1/2" = 1'-0"
0515_0762_ROOF SDL FLASH @ PAR_01



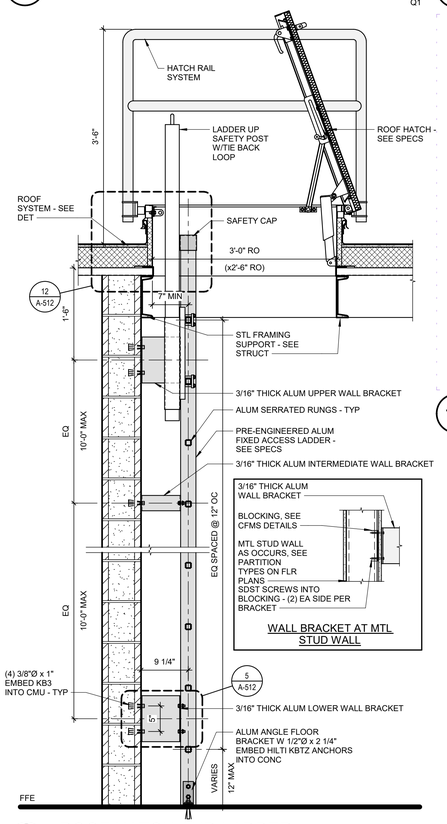
4 PARAPET CAP @ END WALL
1" = 1'-0"
200709.Q2



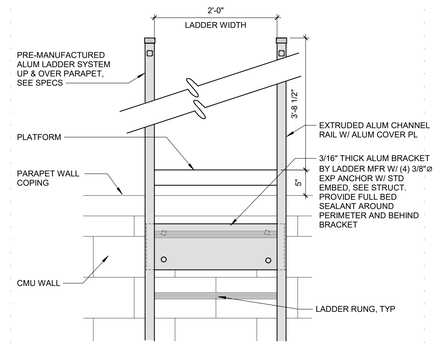
5 LADDER BRACKET AT SINGLE PLY
3" = 1'-0"
Q1



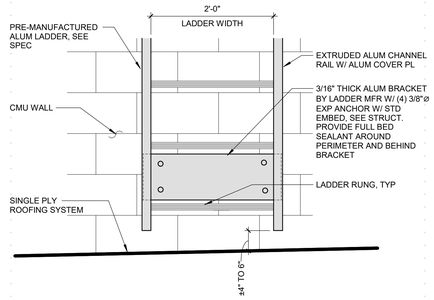
6 OVER PARAPET LADDER
1" = 1'-0"
Q1



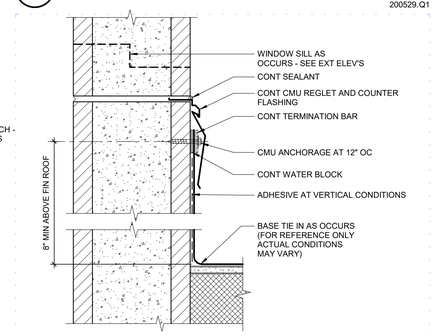
8 ROOF HATCH AND LADDER
1" = 1'-0"
Q1



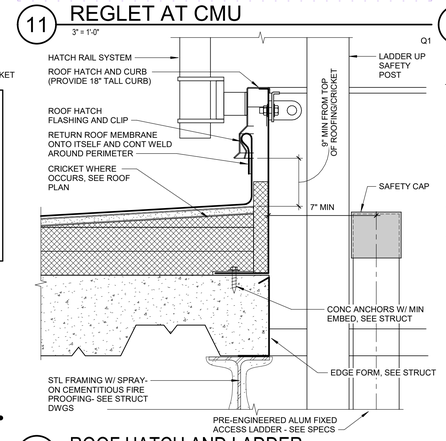
9 ACCESS LADDER AT TOP
1" = 1'-0"
200529.Q1



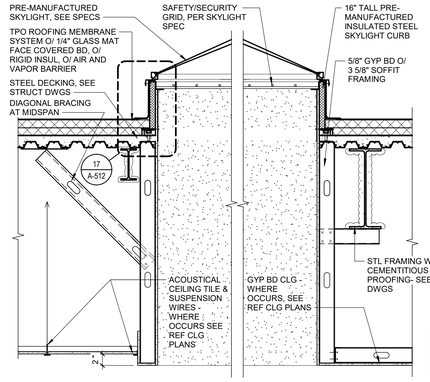
10 ACCESS LADDER AT BOTTOM
1" = 1'-0"
200529.Q1



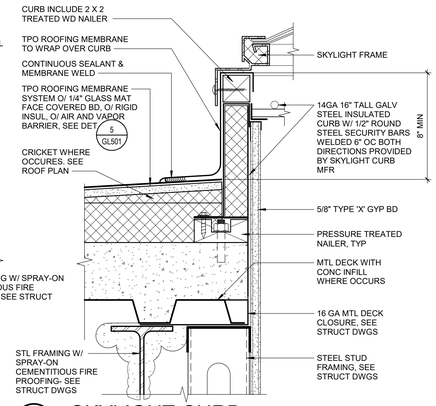
11 REGLET AT CMU
3" = 1'-0"
Q1



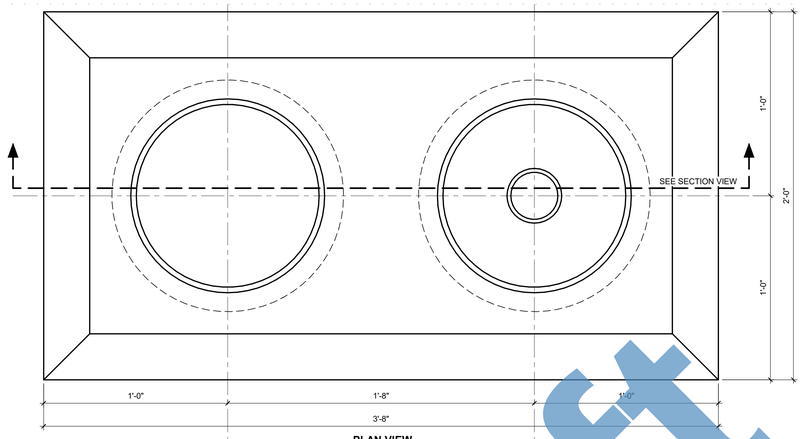
12 ROOF HATCH AND LADDER
3" = 1'-0"
CV_510_??_ROOF HATCH & LADDER
180604.Q1



13 SECTION AT SKYLIGHT
3/4" = 1'-0"
?DRS TRACKING NUMBER?
?YYMMDD?.Q1

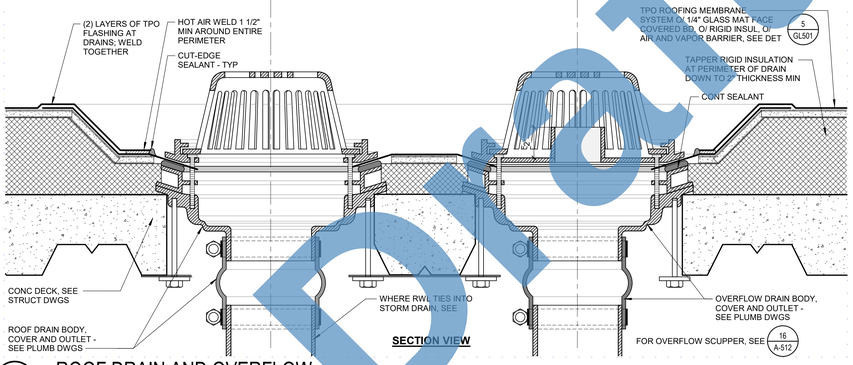


17 SKYLIGHT CURB
3" = 1'-0"
SKYLIGHT CURB DETAIL
190214.Q1



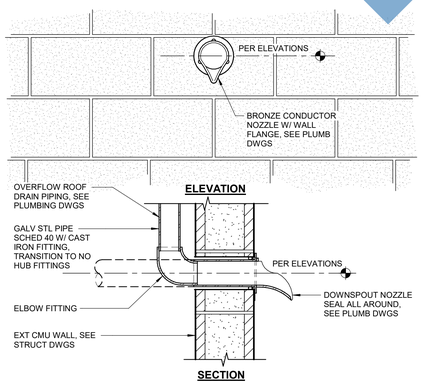
PLAN VIEW

NOTE:
CONC DECK SHOWN, MTL DECK SIMILAR



SECTION VIEW

15 ROOF DRAIN AND OVERFLOW
3" = 1'-0"
Q1



16 OVERFLOW SCUPPER
1 1/2" = 1'-0"
Q1

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Sacramento CA 95818
P 916.558.1900
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TITLE
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A-512
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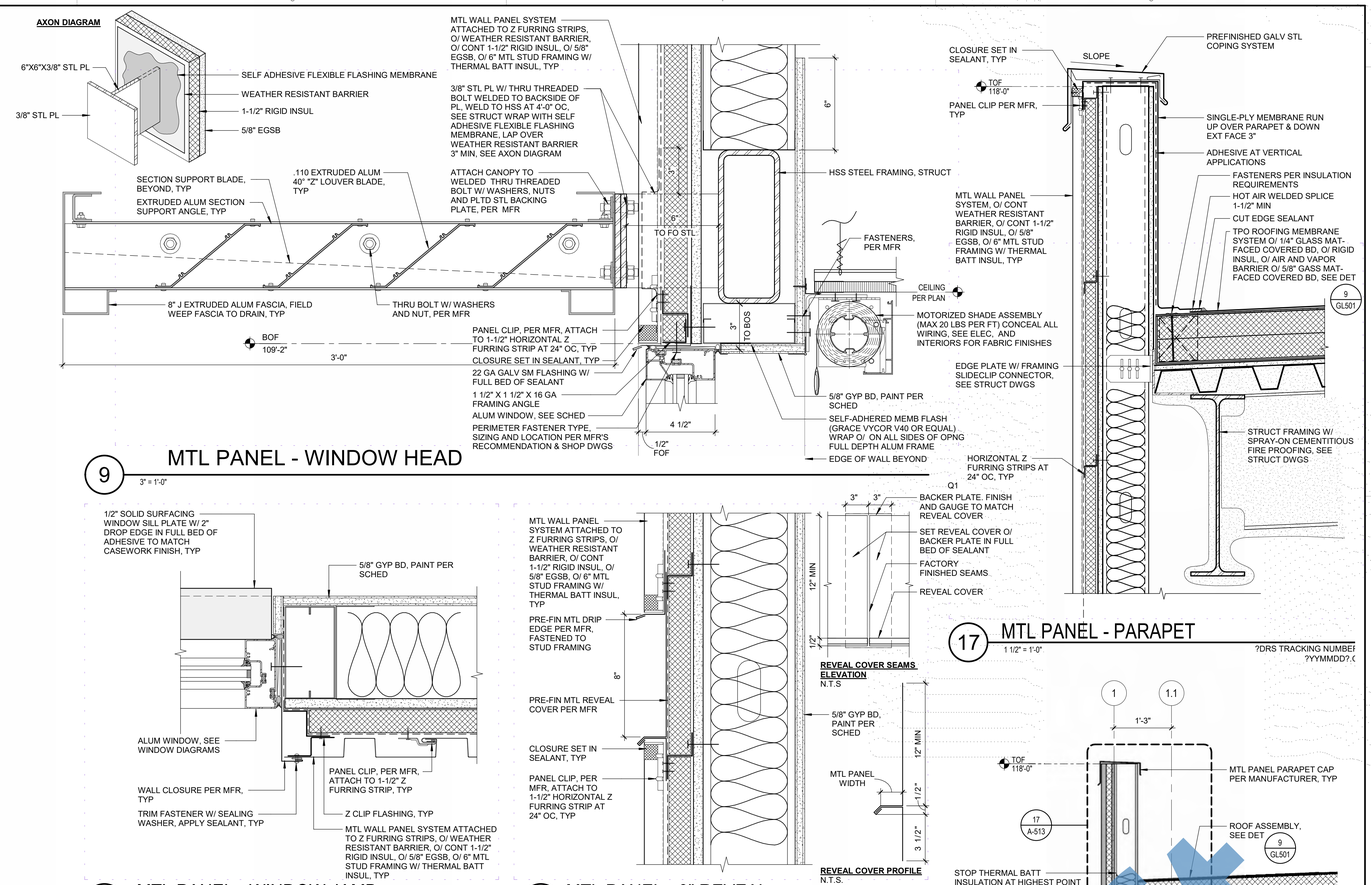

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Sacramento CA 95818
P 916.558.1900
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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

LICENSED ARCHITECT
RICHARD D. DAVIS
C-27266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

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DETAILS - EXTERIOR

SHEET
A-513

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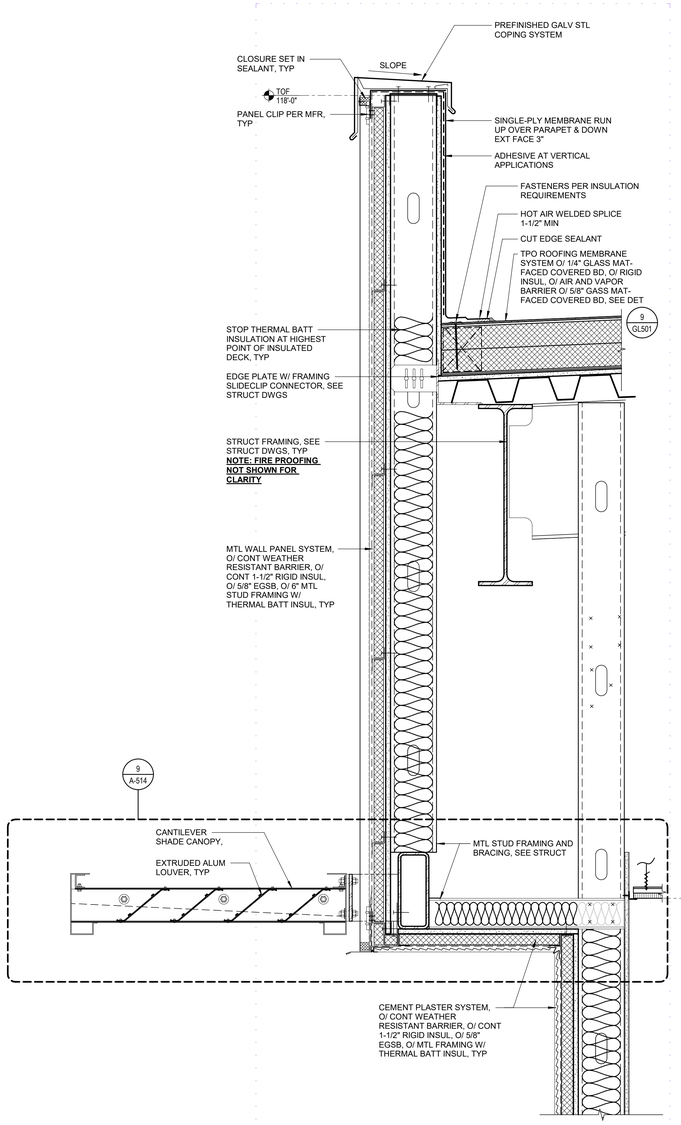
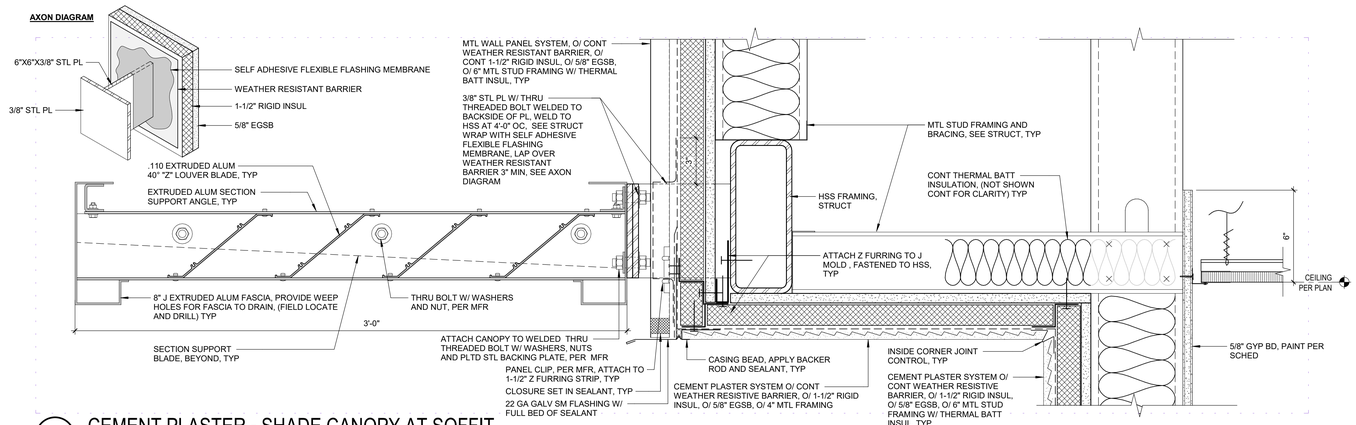
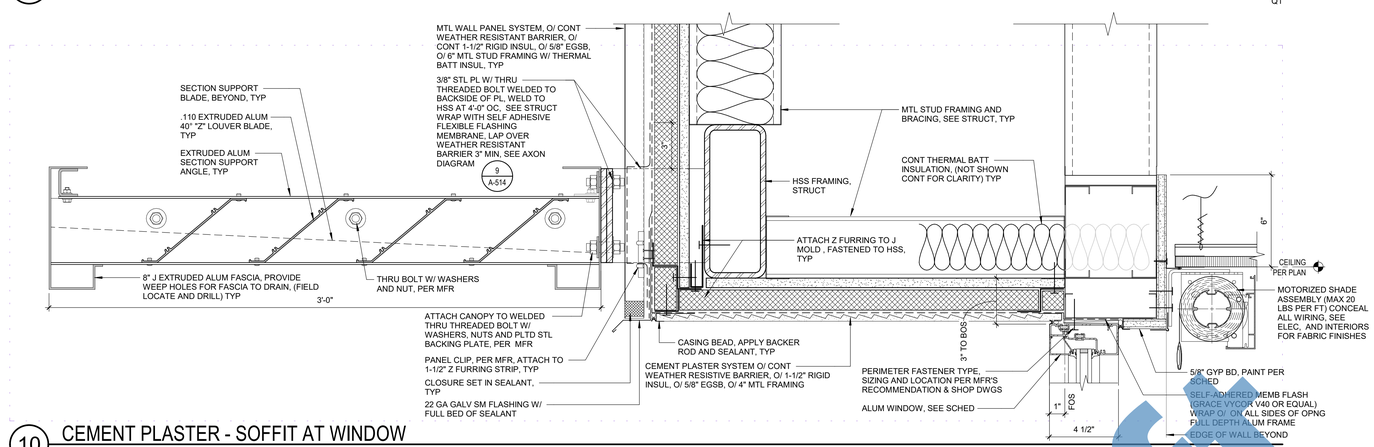


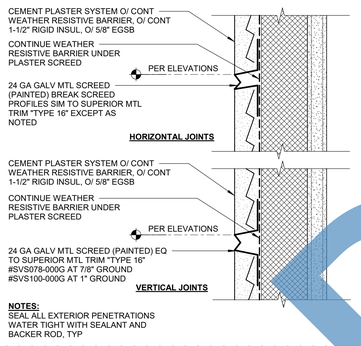
7 CEMENT PLASTER - SOFFIT
1 1/2" = 1'-0"
?DRS TRACKING NUMBER?



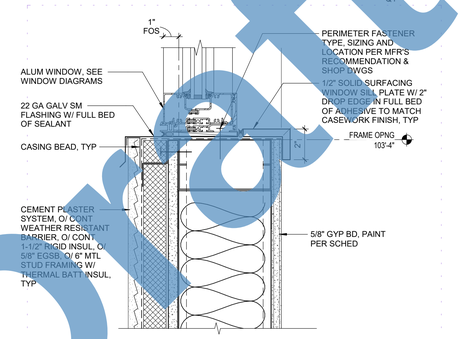
9 CEMENT PLASTER - SHADE CANOPY AT SOFFIT
3" = 1'-0"
Q1



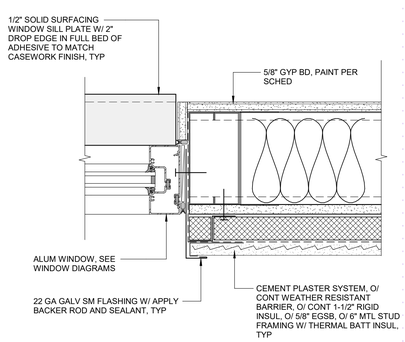
10 CEMENT PLASTER - SOFFIT AT WINDOW
3" = 1'-0"
Q1



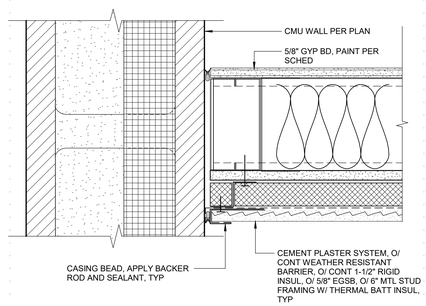
15 CEMENT PLASTER - CONTROL JOINTS
6" = 1'-0"
Q1



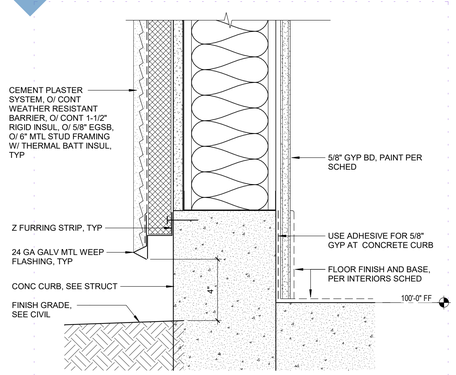
19 CEMENT PLASTER - WINDOW SILL
3" = 1'-0"
?DRS TRACKING NUMBER?
?YYYMMDD?.Q1



12 CEMENT PLASTER - WINDOW JAMB
3" = 1'-0"
?DRS TRACKING NUMBER?
?YYYMMDD?.Q1



16 CEMENT PLASTER - END AT CMU
3" = 1'-0"
?DRS TRACKING NUMBER?
?YYYMMDD?.Q1



20 CEMENT PLASTER - BASE
3" = 1'-0"
?DRS TRACKING NUMBER?
?YYYMMDD?.Q1

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE
DETAILS - EXTERIOR

SHEET
A-514

V1

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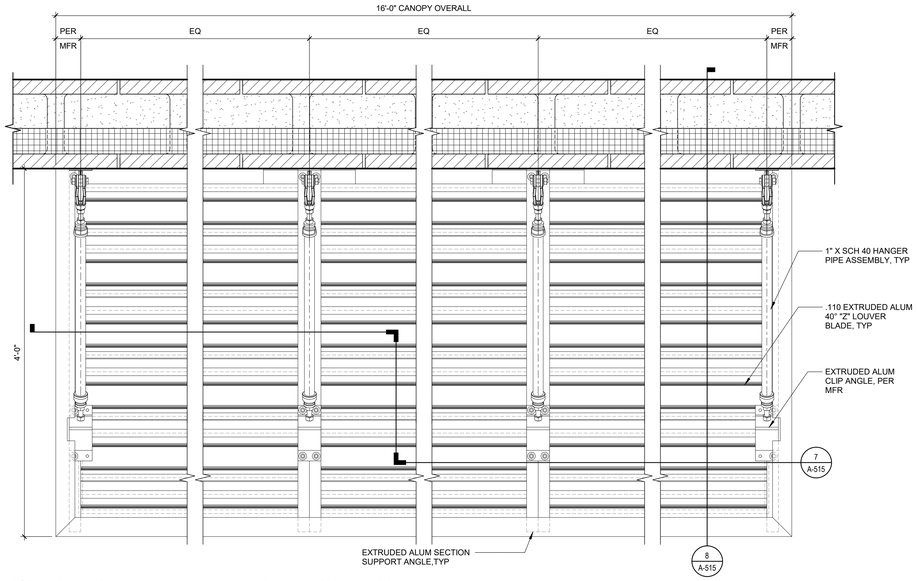
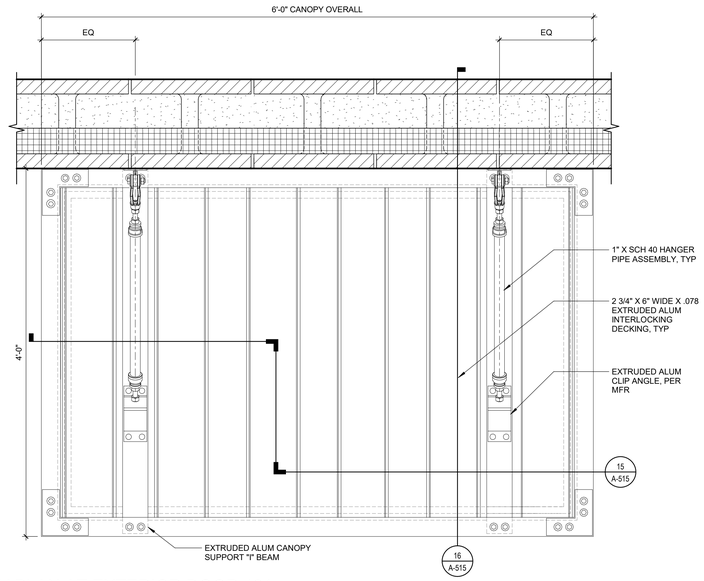


6 CANOPY PLAN AT EXTERIOR DOOR 123

1 1/2" = 1'-0"

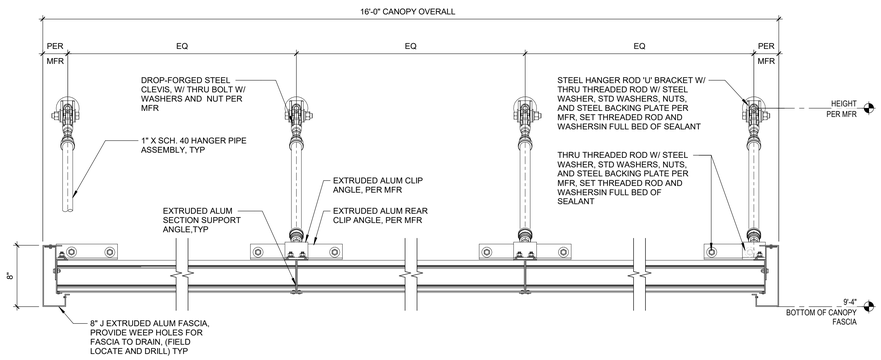
?DRS TRACKING NUMBER?
190517. Q1



14 CANOPY PLAN AT EXTERIOR DOOR 121

1 1/2" = 1'-0"

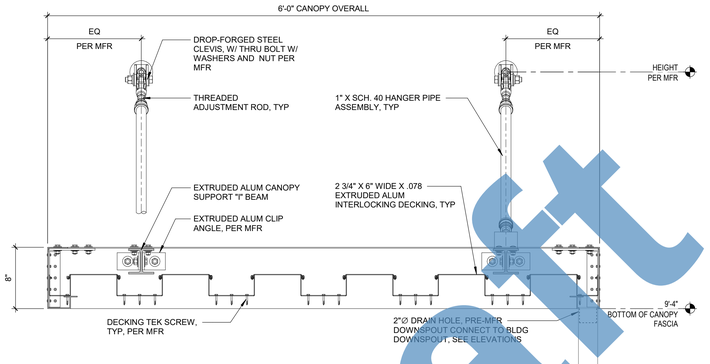
?DRS TRACKING NUMBER?
190517. Q



7 SHADE CANOPY TRANSVERSE SECTION - HANGER ROD SUPPORTED - LOUVERED

1 1/2" = 1'-0"

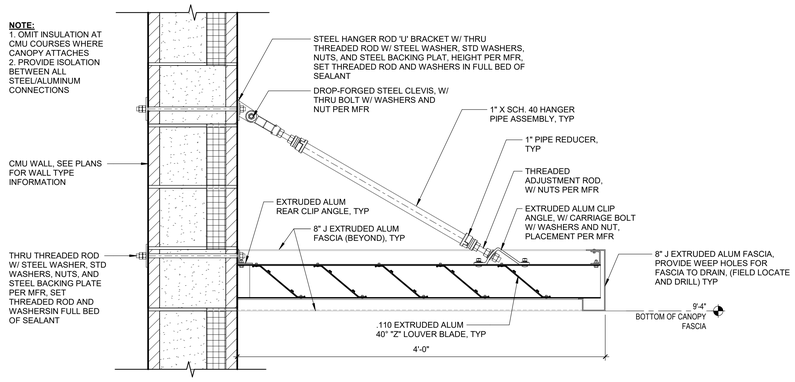
?DRS TRACKING NUMBER?
?YYMMDD?.Q1



15 CANOPY TRANSVERSE SECTION - HANGER ROD SUPPORTED

1 1/2" = 1'-0"

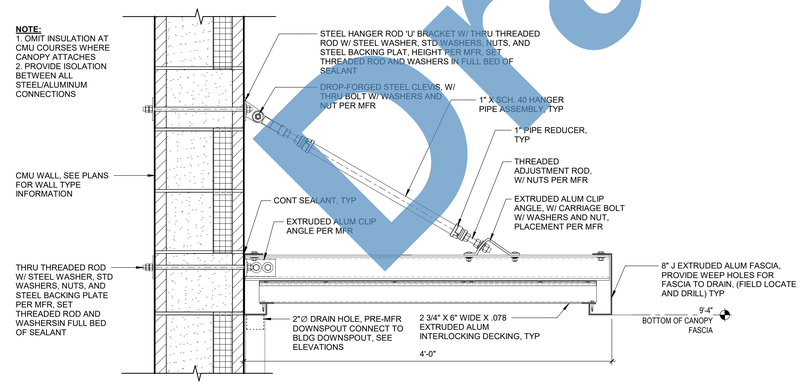
?DRS TRACKING NUMBER?
?YYMMDD?.Q1



8 SHADE CANOPY SECTION - HANGER ROD SUPPORTED - LOUVERED

1 1/2" = 1'-0"

?DRS TRACKING NUMBER?
?YYMMDD?.Q1



16 CANOPY SECTION - HANGER ROD SUPPORTED

1 1/2" = 1'-0"

?DRS TRACKING NUMBER?
?YYMMDD?.Q1

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SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
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TITLE
DETAILS - EXTERIOR

SHEET
A-515

V1

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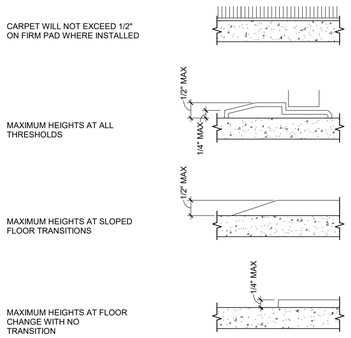
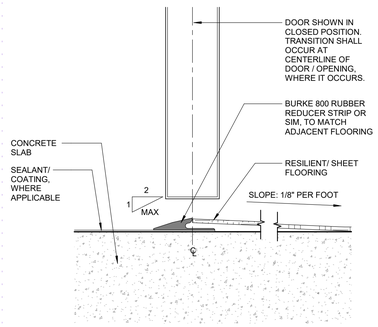
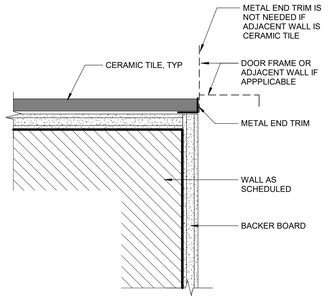


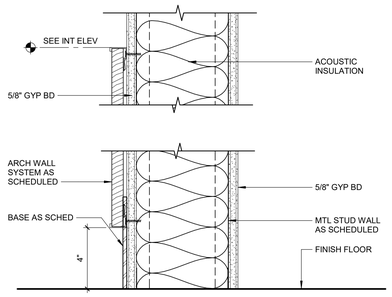
1 FLOOR TRANSITIONS
6" = 1'-0"
ACM_109000_001A
140924.Q1



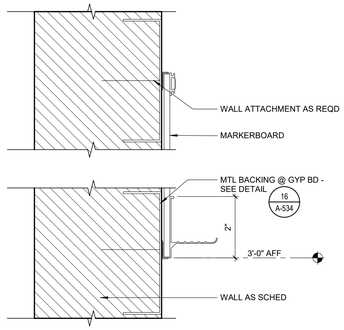
5 CONCRETE TO RESILIENT/SHEET FLOORING
6" = 1'-0"
ACM_033546_002A
140925.Q1



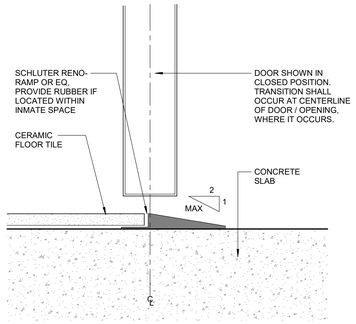
9 CERAMIC TILE EDGE TRIM
12" = 1'-0"
?DRS TRACKING NUMBER?
Q1



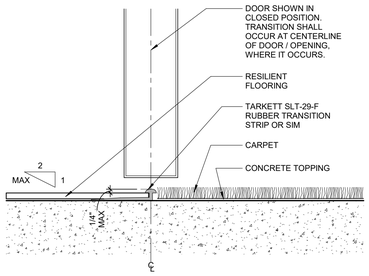
13 ARCH PANELING TOP AND BOTTOM
3" = 1'-0"
?DRS TRACKING NUMBER?
?YYMMDD?. Q1



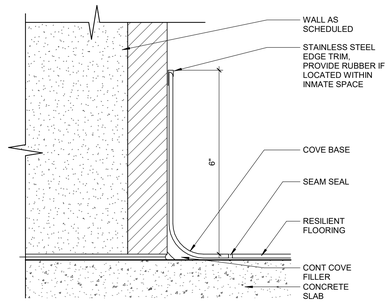
17 MARKER BOARD - TACKBOARD (SIM)
6" = 1'-0"
Q1



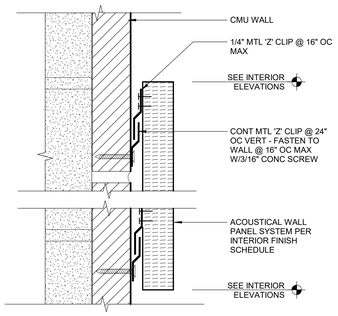
2 CERAMIC TILE TO CONCRETE
6" = 1'-0"



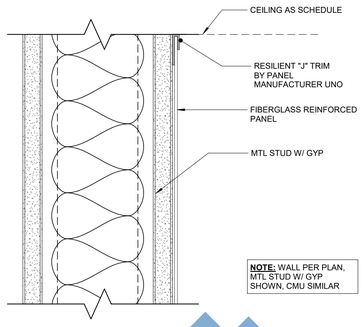
6 RESILIENT TO CARPET TILE
6" = 1'-0"
I-_096500_002A
140925.Q1



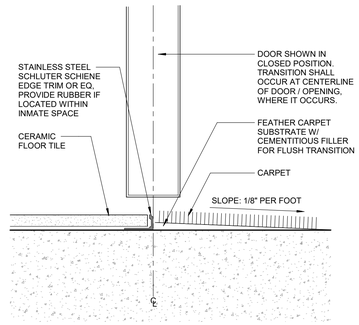
10 RESILIENT/SHEET COVE BASE AT CMU
6" = 1'-0"
ACM_096500_003A
140925.Q1



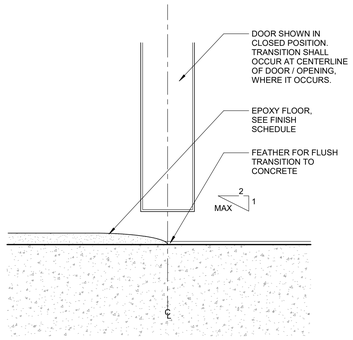
14 ACOUSTICAL WALL PANEL ATTACHMENT AT CMU
6" = 1'-0"
Q1



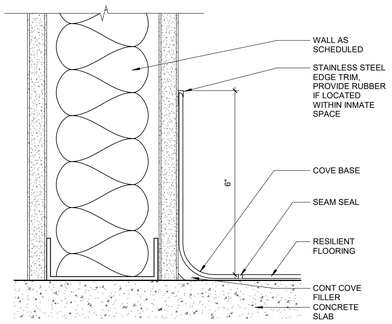
18 FRP PROTECTION TOP TRIM
6" = 1'-0"
I-_102600_002A
140424.Q1



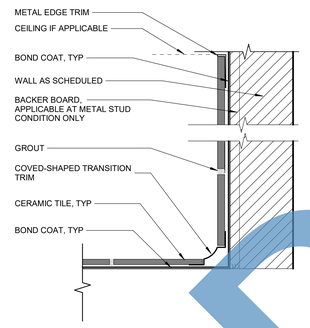
3 CERAMIC TILE TO CARPET
6" = 1'-0"
ACM_09300_003A
140924.Q1



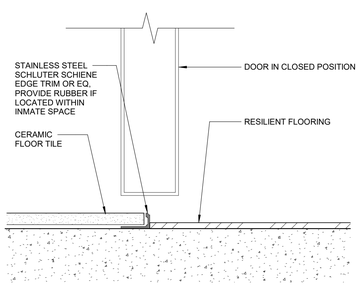
7 EPOXY TO CONRETE
6" = 1'-0"
?DRS TRACKING NUMBER?
?YYMMDD?.Q1



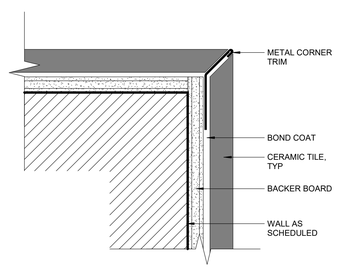
11 RESILIENT/SHEET COVE BASE AT GYP
6" = 1'-0"
ACM_096500_003A
140925.Q1



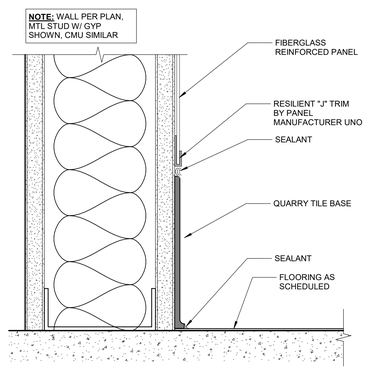
15 CERAMIC TILE TRANSITION TRIM
3" = 1'-0"



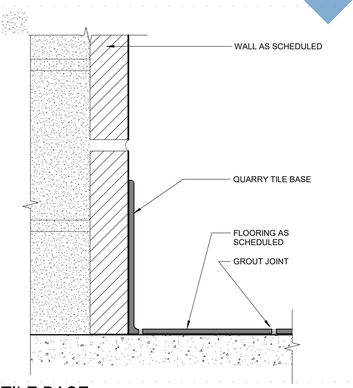
4 TRANISTION-RESILIENT/CARPET
6" = 1'-0"
0520_0965_RF CPT TRANSITION_01



8 OUTSIDE CORNER TILE
12" = 1'-0"
I-_102600_001B
140424.Q1



12 TILE BASE AND FRP
6" = 1'-0"
I-_102600_001B
140424.Q1



16 TILE BASE
6" = 1'-0"
ACM_093000_003A
140925.Q1

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SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:	
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TITLE
DETAILS - INTERIOR

SHEET
A-521
V1

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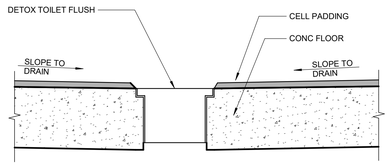
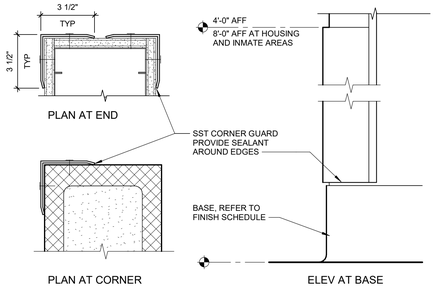
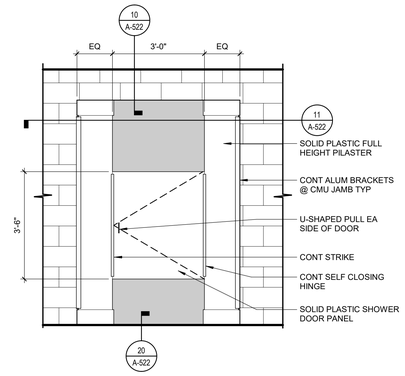


1 SAFETY PADDING @ FLOOR TOILET
1 1/2" = 1'-0"

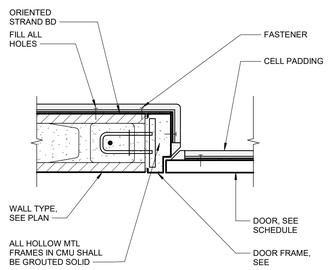


NOTES:
1. FOR ADDITIONAL INFORMATION REFER TO SPEC SECTION 10 26 00
2. MANUFACTURER TO PROVIDE FACTORY MACHINED MOUNTING HOLES.
3. PROVIDE TAMPER-PROOF MECHANICAL FASTENERS PER MANUFACTURERS REQUIREMENTS
4. APPLY SEALANT AROUND EDGES PER MANUFACTURERS REQUIREMENTS
5. FOR ADDITIONAL NOTES ON INTERIOR PARTITIONS SEE PARTITION PLANS

5 CORNER GUARDS
3" = 1'-0"
07/10/2015.Q1

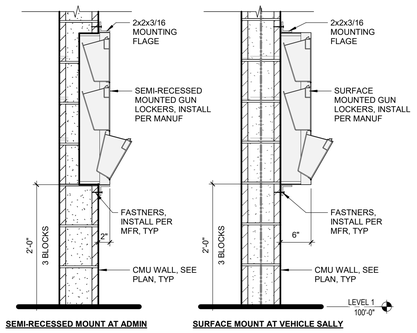


9 SHOWER DOOR
1/2" = 1'-0"
07/10/2015.Q1

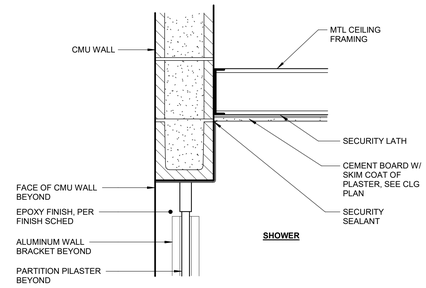


NOTE: JAMB AS SHOWN, HEAD SIM.

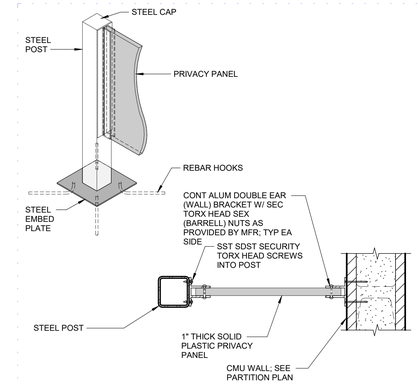
2 SAFETY PADDING DOOR JAMB
1 1/2" = 1'-0"

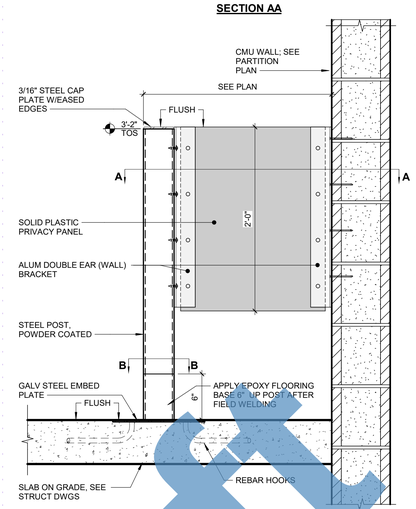


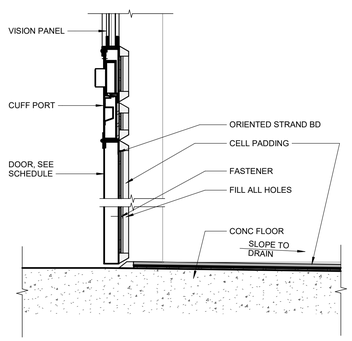
6 GUN LOCKER
1" = 1'-0"
Q1



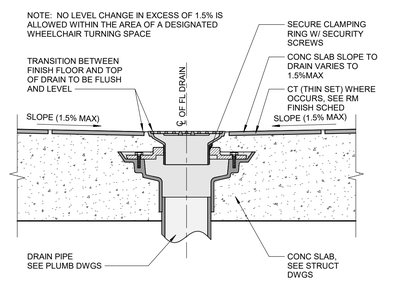
10 INMATE SHOWER DOOR HEAD
1 1/2" = 1'-0"
Q1



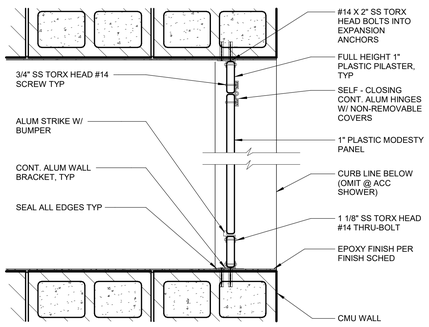




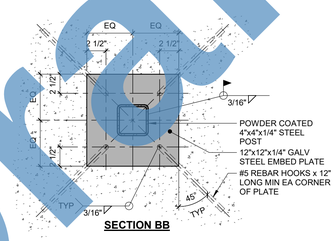
3 SAFETY PADDING DOOR SILL
1 1/2" = 1'-0"

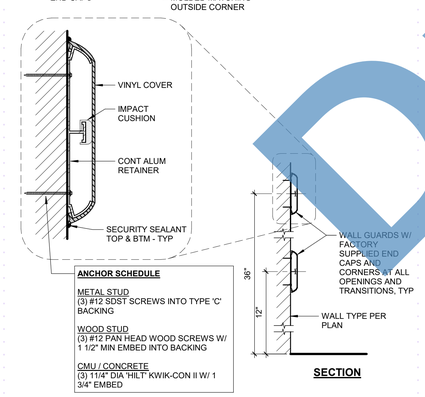


7 TYP FLOOR DRAIN @ CONCRETE
3" = 1'-0"
?DRS TRACKING NUMBER?
?YYMMDD?. Q1

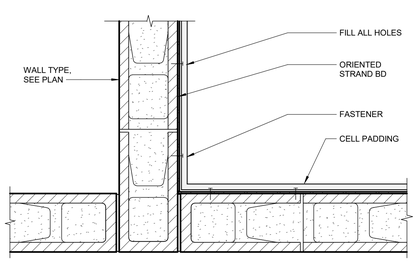


11 SHOWER DOOR JAMB AT CMU
1 1/2" = 1'-0"
Q1

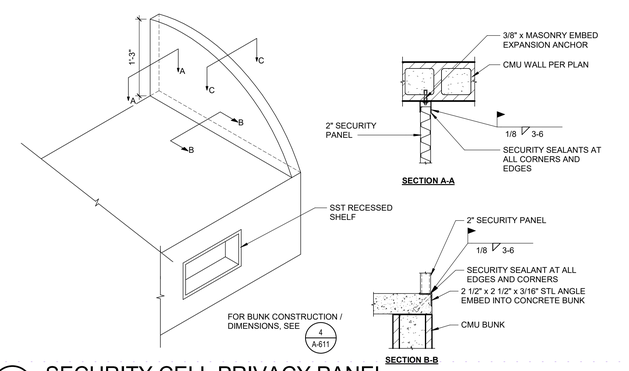




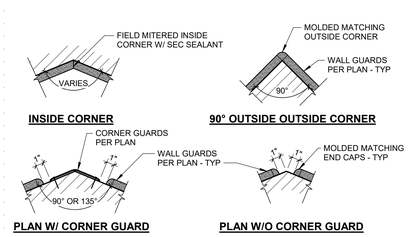
19 MODESTY SCREEN
1 1/2" = 1'-0"
0520_05_MODESTY PANEL_01
07/06/2017.Q2



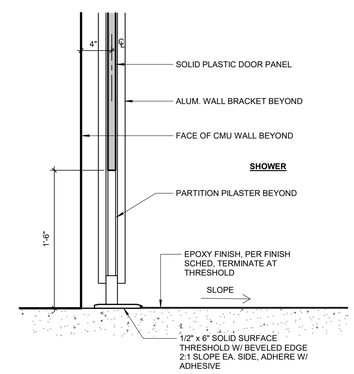
4 SAFETY PADDING INSIDE CORNER DETAIL
1 1/2" = 1'-0"



8 SECURITY CELL PRIVACY PANEL
1" = 1'-0"



16 WALL GUARD
1 1/2" = 1'-0"
Q1



20 ACCESSIBLE SHOWER THRESHOLD
1 1/2" = 1'-0"
Q1

Draft

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CLIENT
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P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
DETAILS - INTERIOR

SHEET
A-522
V1

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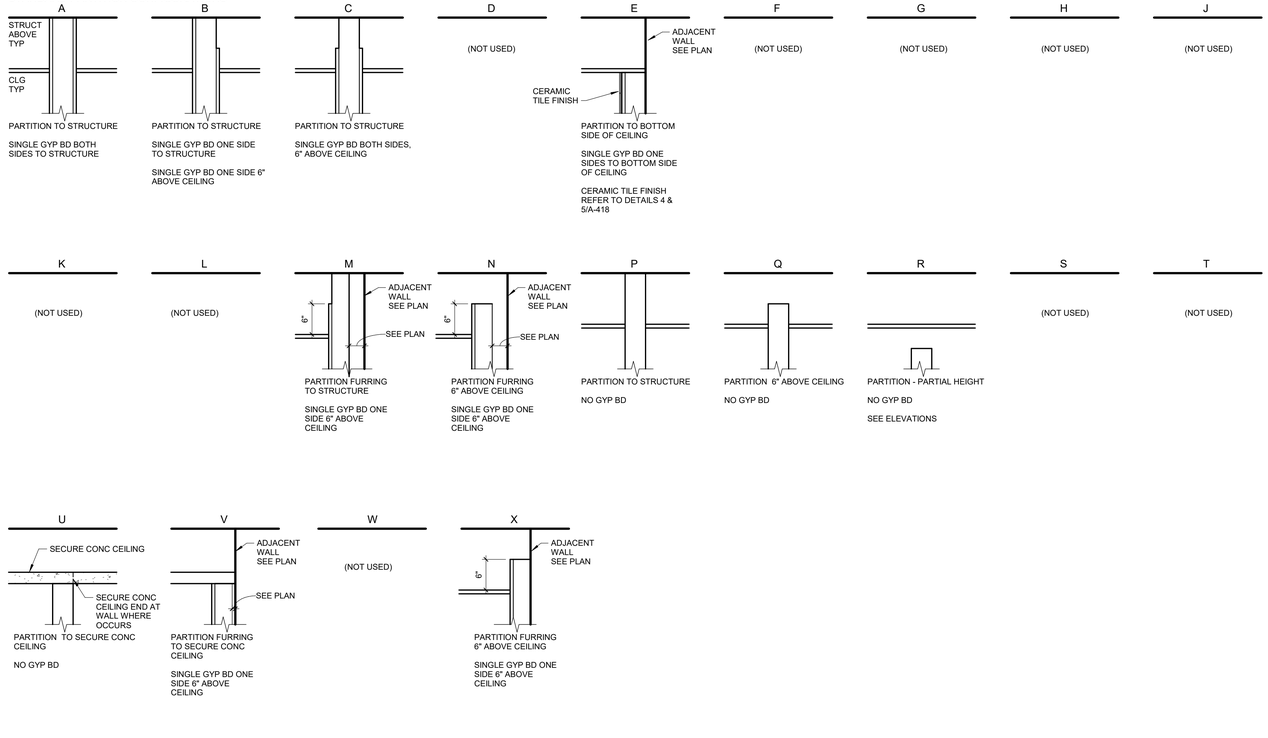
PARTITION CONFIGURATION DIAGRAMS (FOURTH CHARACTER DESIGNATOR)

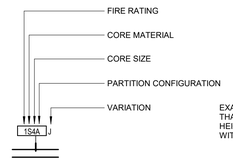
STANDARD PARTITION CONFIGURATIONS



PARTITION TYPE SCHEDULE

PARTITION TYPE	VARIATION	UL ASSEMBLY	STC RATING	HEAD	SILL	HEAD	SILL	REMARKS
0M8P			50-55	SEE STRUCT	SEE STRUCT	5, 11/A-532	5, 11/A-532	19/S-541
0M8R				SEE STRUCT	SEE STRUCT	14/A-532	14/A-532	19/S-541
0M8U			50-55	SEE STRUCT	SEE STRUCT			19/S-541, 9. 11/S-546
0M12P			55	SEE STRUCT	SEE STRUCT	11/A-532	11/A-532	
0S4E				4/A-418				SEE SHEET A-418 FOR DETAILS OF CERAMIC TILE FINISH
0S4N				19/A-532 SIM	16/A-532			
0S4N	F			19/A-532 SIM	16/A-532			
0S4X	F			18/A-532	20/A-532			
0S6A			40	13/A-532	20/GL501			4/S-591
0S6A	A		40	13/A-532	20/GL501			
0S6A	B		40	13/A-532	20/GL501			
0S6B				13, 17/A-532	20/GL501			
0S6B	A			13, 17/A-532	20/GL501			
0S6C				17/A-532	20/GL501			
0S6C	A			17/A-532	20/GL501			
0S6M	A			17/A-532	16/A-532			
0S6V	B			18/A-532 SIM	20/A-532			
0S6X	A			18/A-532	20/A-532			
0S6X	B			18/A-532	20/A-532			
0S6X	F			18/A-532	20/A-532			
1M8P		U901, HW-D-0415, HW-D-0248, HW-D-0440	50-55	SEE STRUCT	SEE STRUCT	3, 13, 14/GL501	3/GL501	19/S-541
2M8P		U901	50-55	SEE STRUCT	SEE STRUCT	3/A-511	3/GL501	

PARTITION TYPE SYMBOL KEY



EXAMPLE GIVEN: REFERS TO A PARTITION THAT IS 1 HOUR, STEEL STUD, 4", FULL HEIGHT TO DECK, GYP BD BOTH SIDES WITH LAMINATED HI-IMPACT GYP BD

PARTITION SYMBOL DESIGNATORS

FIRST CHARACTER 1S4A J

DESIGNATOR	FIRE RATING
0	NON-RATED
1	1 HR
2	2 HR
3	3 HR
4	4 HR

SECOND CHARACTER 1S4A J

DESIGNATOR	CORE MATERIAL
C	CONCRETE
D	DETENTION WALL
E	EXISTING
F	FURRING - WOOD
H	STEEL HAT CHANNELS
M	MASONRY
S	STEEL STUD
T	SHAFTWALL STUD
W	WOOD STUD
Z	STEEL ZEE CHANNELS

THIRD CHARACTER 1S4A J

		CORE MATERIAL SIZE										
	DESIGNATOR	C	D	F	H	M	S	T	W	Z	--	--
SIZES	1			3/4"	3/4"		1 5/8"			7/8"		
	2		2"	1 1/2"	1 1/2"		2 1/2"			1 1/2"		
	3			2 1/2"	2 1/2"		3 5/8"	2 1/2"				
	4	4"					4"	4"	3 1/2"			
	6	6"				5 5/8"	6"	6"	5 1/2"			
	8	8"				7 5/8"	8"		7 1/4"			
	10	10"				9 5/8"	10"		9 1/4"			
	12	12"				11 5/8"	12"		11 1/4"			

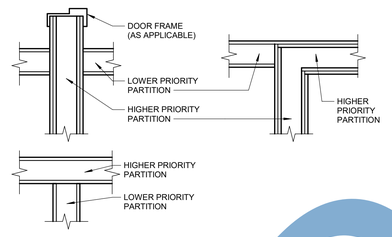
FOURTH CHARACTER 1S4A J

SEE PARTITION CONFIGURATION DIAGRAMS AT LEFT

FIFTH CHARACTER 1S4A J

DESIGNATOR	VARIATION MATERIAL
A	MOISTURE RESISTANT GYP BD
B	CEMENTITIOUS BACKER BD
C	GYP BD, ADDITIONAL LAYER
D	REMOVE GYP BD
E	SOUND DAMPENING GYP BD
F	HI-IMPACT GYP BD
G	PLYWOOD
H	LEAD BACKED GYP BD
J	LAMINATED HI-IMPACT GYP BD
K	RIGID INSULATION
L	BULLET RESISTANT COMPOSITE PANELS
M	WITHOUT ACOUSTIC INSULATION
P	PARTITION
S	SMOKE
W	FIRE

PARTITION PRIORITY LEGEND



PARTITION PRIORITY LEGEND

FOUR HOUR FIRE AND/OR SMOKE PARTITION	PRIORITY 1 (HIGHEST)
THREE HOUR FIRE AND/OR SMOKE PARTITION	PRIORITY 2
TWO HOUR FIRE AND/OR SMOKE PARTITION	PRIORITY 3
TWO HOUR FIRE PARTITION	PRIORITY 4
TWO HOUR SHAFTWALL	
ONE HOUR FIRE AND/OR SMOKE PARTITION	PRIORITY 5
ONE HOUR FIRE PARTITION	PRIORITY 6
NON-RATED PARTITION	PRIORITY 7 (LOWEST)

NOTE:
1. ALL PARTITIONS MAY NOT BE USED. SEE PLANS.
2. PARTITIONS WITH HIGHER ASSIGNED PRIORITY SHALL BE CONTINUOUS THROUGH INTERSECTIONS.

PARTITION TYPE GENERAL NOTES

1. FOR SYMBOLS LEGEND AND ARCHITECTURAL ABBREVIATIONS, SEE SHEET G-001.

2. ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR CENTERLINE OF COLUMN GRIDS, UON. EXCEPTION: CLEAR DIMENSIONS AT DOORS, ACCESSORIES, AND PLUMBING ARE TO FACE OF FINISH TYP.

3. REFER TO THE FLOOR PLANS FOR PARTITION TYPE SYMBOLS. A PARTITION TYPE IS INDICATED BY A SYMBOL CONTAINING THE PARTITION IDENTIFICATION WHICH REFERS TO A SPECIFIC ASSEMBLY INDICATED ON THIS SHEET.

4. THE FIFTH CHARACTER VARIATION MATERIAL (WHERE INDICATED) REPLACES THE MATERIAL INDICATED IN THE STANDARD PARTITION CONFIGURATION, UON. THIS NOTE DOES NOT APPLY TO "K", "L", OR "M".

5. THE CONSTRUCTION OF EXTERIOR WALLS IS SHOWN ON WALL SECTIONS & CORRESPONDING DETAILS. PARTITION SYMBOLS ARE ONLY USED TO SHOW INTERIOR CONDITIONS, INCLUDING INTERIOR FURRING OF EXTERIOR WALLS.

6. PARTITION TYPES AS NOTED BY THE SYMBOL CONTINUE BETWEEN ROOM/SPACE CORNERS OR ANY INTERSECTING PARTITION.

7. SEE PLANS FOR STRUCTURE ABOVE NOTED IN PARTITION CONFIGURATION DIAGRAMS.

8. THE PARTITION TYPE ABOVE OR BELOW ANY OPENING IS TO BE THE SAME AS THAT SCHEDULED FOR EITHER SIDE OF THE OPENING, UNO.

9. DIFFERING PARTITION TYPES SHALL ALIGN SO THAT PARTITION FINISH PLANES CONTINUE UNBROKEN WITHIN AND/OR ACROSS SPACES.

10. IN CASES WHERE TWO DIFFERENT CEILING HEIGHTS ABUT PARTITIONS, THE PARTITION SHALL EXTEND ABOVE THE HIGHEST CEILING INDICATED.

11. GYPSUM BOARD SHALL BE FIRE RESISTANT, TYPE 'X' UNO. FIRE RATED PARTITIONS SHALL BE CONSTRUCTED PER UL ASSEMBLIES NOTED ON THE GL500 SERIES DRAWING AND DRAWINGS THAT LEAD TO THE GL500 DRAWINGS.

12. PROVIDE MOISTURE RESISTANT GYP BOARD AT PARTITIONS IN WET AREAS (FLOOR TO FINISH CEILING) INCLUDING BUT NOT LIMITED TO THE FOLLOWING ROOMS

A. TOILET ROOMS
B. JANITOR CLOSETS
C. OUTSIDE AIR SHAFTS
D. MECHANICAL ROOMS
E. DRINKING FOUNTAIN ALCOVES
F. KITCHENS
G. LOCKERS
I. SHOWERS
K. IN AREAS WITH A SINK, PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT PARTITIONS ADJACENT TO SINK.

13. HIGH IMPACT GYPSUM BOARD AND HIGH IMPACT BOARD WITH SECURITY LATH AS INDICATED IN THE FINISH SCHEDULE ARE TO BE USED IN PLACE OF MOISTURE RESISTANT GYPSUM BOARD AT ROOMS AND LOCATIONS NOTED ABOVE.

14. PROVIDE CEMENTITIOUS BACKER BOARD AT WET AREAS SCHEDULED WITH TILE FINISH, UON. THIS NOTE TAKES PRECEDENCE OVER THE LOCATIONS NOTED ABOVE.

15. PROVIDE ACOUSTICAL BATT INSULATION, FULL WIDTH, DEPTH, AND HEIGHT AT THE FOLLOWING ROOMS, SEE FLOOR PLANS FOR ADDITIONAL LOCATIONS REQUIRING ACOUSTICAL BATT INSULATION:

A. RESTROOM AND SHOWERS
B. EXAM
C. OFFICES - SGT, LT.
D. WORK ROOM
E. CONFERENCE
F. TRAINING
G. MDF

16. PROVIDE ACOUSTICAL INSULATION ABOVE CEILING AT THE FOLLOWING ROOMS:

A. OFFICES
B. CONFERENCE
C. TRAINING
D. EXAM

17. AT PARTITIONS WITH ACOUSTIC INSULATION INSTALL ACOUSTICAL SEALANT AT PARTITION HEAD, SILL & JAMB TRANSITIONS, AS WELL AS AT PENETRATIONS THROUGH THE GYPSUM BOARD MEMBRANE INCLUDING PENETRATIONS AT MOUNTING FASTENERS. FIRE STOPPING REQUIREMENTS SHALL SUPERSEDE ACOUSTIC TREATMENT.

18. WHERE GYPSUM BOARD HEAD, JAMB, & SILL EDGES TERMINATING AT DISSIMILAR MATERIAL (CMU, CONCRETE, METAL PANEL, ETC) SHALL ALLOW FOR A 1/4" CONTINUOUS GAP. SEAL AIRTIGHT WITH AN ACOUSTIC SEALANT. WHERE PARTITIONS SCHEDULED TO RECEIVE VERY HIGH IMPACT GYPSUM, PROVIDE SECURITY SEALANT, TYP. WHERE PARTITION IS SCHEDULED TO RECEIVE FIRE OR SMOKE TREATMENT PROVIDE FIRE RESISTANCE SEALANT.

19. THE BACK AND SIDES OF DUPLEX ELECTRICAL OUTLETS, TELEPHONE OUTLETS, CABLE TV OUTLETS, FIRE ALARM DEVICES, THERMOSTATS, ETC, SHALL BE SEALED WITH FIRE STOP PUTTY PADS AS SPECIFIED FOR FIRE RATED ASSEMBLIES. ELSEWHERE, BACK-TO-BACK OUTLET BOXES TO BE SEPARATED BY ONE EMPTY STUD SPACE AND A MINIMUM OF 16 INCHES. USE FIRESTOP PUTTY AT ALL OUTLETS THAT CANNOT ACHIEVE THE 16" SEPARATION.

20. PARTITIONS INDICATED AS FIRE OR SMOKE RATED FORM A SEPARATION THAT SHALL BE CONTINUOUS FROM FLOOR TO STRUCTURE ABOVE WITH NO BREAKS AT CONCEALED SPACES, COLUMNS, TRANSITIONS OR OTHER OBSTRUCTIONS.

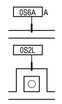
21. PENETRATIONS THROUGH RATED PARTITIONS SHALL BE SEALED WITH UL LISTED FIRE/SMOKE STOP ASSEMBLY. SEE GL SHEETS FOR UL RATED ASSEMBLY AND DETAILS. SEE PLUMBING, MECHANICAL, ELECTRICAL, SECURITY ELECTRONICS, FOOD SERVICES, AND AUDIO/VISUAL DRAWINGS FOR ADDITIONAL INFORMATION.

22. SEE PARTITION PRIORITY LEGEND FOR PRIORITIZATION OF INTERSECTING PARTITIONS.

23. FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIER AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY IDENTIFIED WITH SIGNS OR STENCILING, PER DETAIL 10/GL501.

PARTITION TYPE SHEET NOTES

1. STEEL STUDS ARE 20 GAUGE, SPACED 16" OC, UNO.
2. SHAFT WALL STUDS ARE 20 GAUGE SPACED AT 24" OC, UNO.
3. PARTITIONS NOT IDENTIFIED WITH A SYMBOL ON PLANS SHALL BE:
4. TYPICAL PARTITIONS AROUND INTERIOR COLUMNS, UNO.



DRAFT

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TITLE
PARTITION TYPES & SCHEDULE

SHEET
A-531
V1

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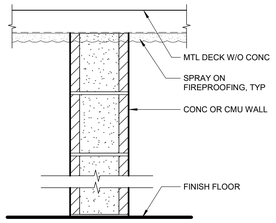
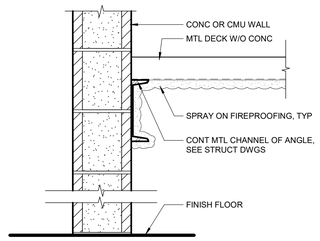
DETAIL A:
CONC OR CMU WALL; TERMINATING AT MTL DECK W/O CONC



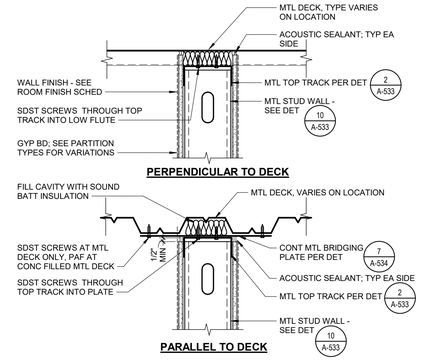
DETAIL B:
CONC OR CMU WALL; PASSING AT MTL DECK W/O CONC



NOTE:
REFER TO STRUCT SHEET S-533, S-534, AND S-544 FOR ADDITIONAL INFO

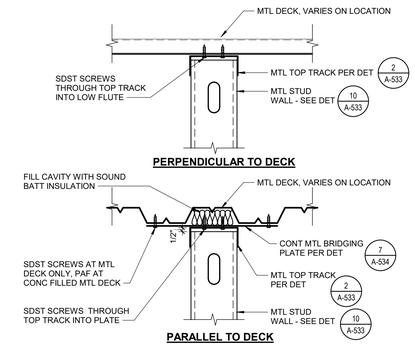
5 CONC/CMU WALL @ MTL DECK W/O CONC
1 1/2" = 1'-0"

?DRS TRACKING NUMBER?
?YYMMDD?.Q1



13 PARTITION HEAD
1 1/2" = 1'-0"

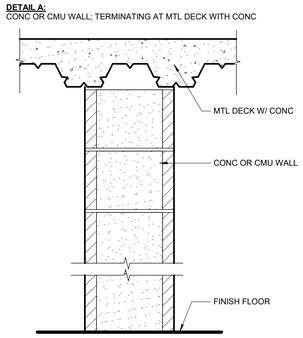
Q1



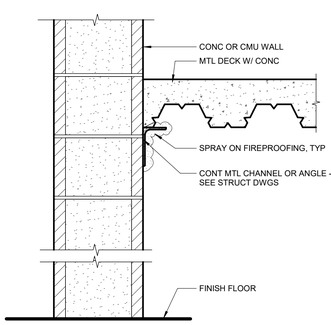
17 PARTITION HEAD
1 1/2" = 1'-0"

Q1

DETAIL A:
CONC OR CMU WALL; TERMINATING AT MTL DECK WITH CONC



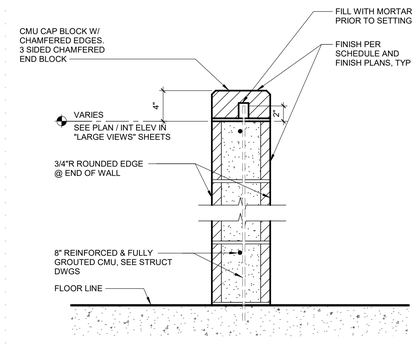
DETAIL B:
CONC OR CMU WALL; PASSING AT MTL DECK WITH CONC



NOTE:
REFER TO STRUCT SHEET S-533, S-534, AND S-544 FOR ADDITIONAL INFO

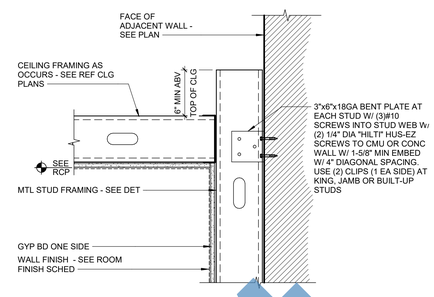
11 CONC/CMU WALL @ MTL DECK W/ CONC
1 1/2" = 1'-0"

Q2



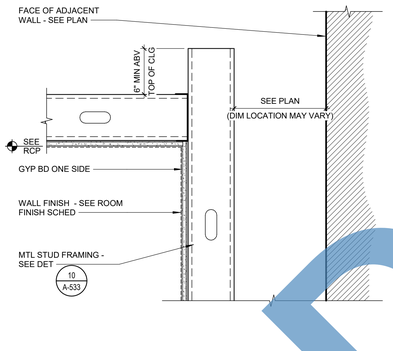
14 HALF WALL - CMU - REINF
1 1/2" = 1'-0"

2/3/2016.Q1



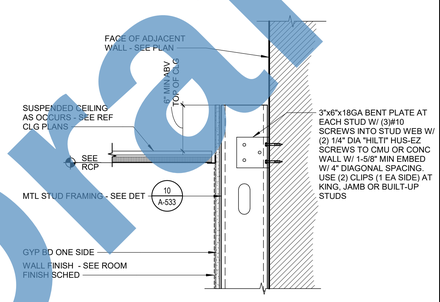
18 PARTITION HEAD AT FURRING
1 1/2" = 1'-0"

Q1



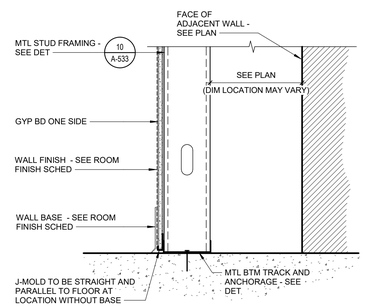
15 PARTITION HEAD AT OFFSET FURRING
1 1/2" = 1'-0"

Q1



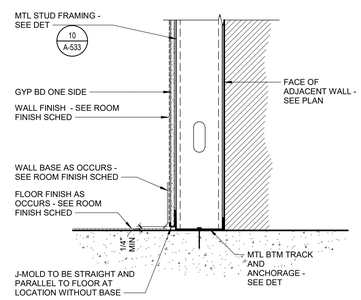
19 PARTITION HEAD AT FURRING
1 1/2" = 1'-0"

Q1



16 PARTITION SILL AT OFFSET FURRING
1 1/2" = 1'-0"

Q1



20 PARTITION SILL AT FURRING
1 1/2" = 1'-0"

Q1

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BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
DETAILS - PARTITION

SHEET
A-532

V1

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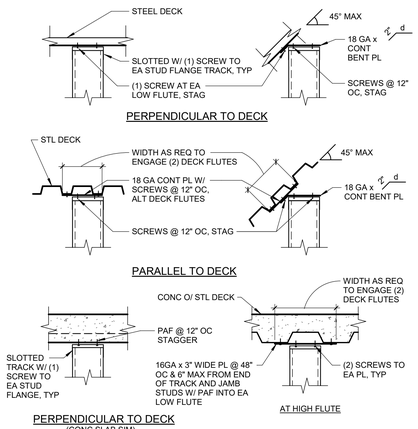
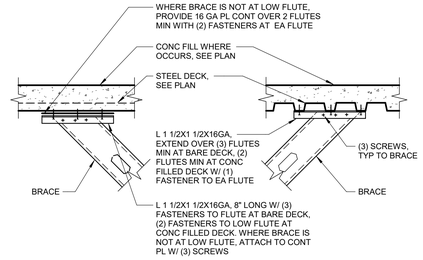


PARALLEL TO BEAM

NOTES:
1. SLOTTED TRACK SHALL HAVE 2 1/2" LEGS W/ 1/4"x 1 1/2" VERT SLOTS @ 1" OC AT EA LEG.
2. SLOTTED TRACK TO BE 18 GA MIN.
3. TOP OF STUD TO BE 3/4" CLEAR FROM SLOTTED TRACK WEB.
4. PROVIDE (1) SCREW TO EA STUD FLANGE, LOCATE SCREW AT CENTER OF SLOT.
5. NO ATTACHMENT OF SHEATHING OR FINISHES IS PERMITTED TO FRAMING WITHIN 4" OF THE TOP OF THE SLOTTED TRACK.

2 TYP CFSF WALL CONN AT TOP

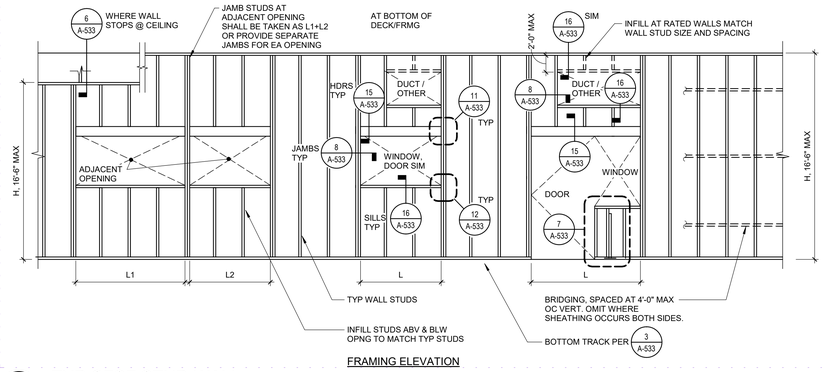
1" = 1'-0" — S-092216_T037A 140314.Q2



NOTES:
1. FASTENERS SHALL BE:
   AT BARE DECK: TYP SCREW
   AT CONC-FILLED DECK: 3/8" DIA "HILTI" KB-TZ W/ 2 3/8" EMBED, 3/8" DIA "SIMPSON" STRONG-BOLT 2 W/ 2" EMBED, OR 3/8" DIA "DEWALT" POWER-STUD+ SD2 W/ 2 3/8" EMBED.
2. DECK MAY SLOPE, SEE PLANS

5 TYP BRACE CONN TO DECK

SCALE: NTS — S-_092216_T026A 200302. Q2



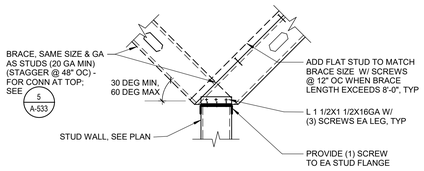
FRAMING ELEVATION

10 TYP CFSF STUD WALL

SCALE: NTS — S-_092216_T011A 190926. Q2

NOMINAL SIZE	SSMA DESIGNATION
3 5/8"X20GA	362S137-33
3 5/8"X18GA	362S137-43
3 5/8"X16GA	362S137-54
4"X20GA	400S137-33
4"X18GA	400S137-43
4"X16GA	400S137-54
6"X20GA	600S137-33
6"X18GA	600S137-43
6"X16GA	600S137-54
8"X18GA	800S137-43
8"X16GA	800S137-54
10"X16GA	1000S162-54

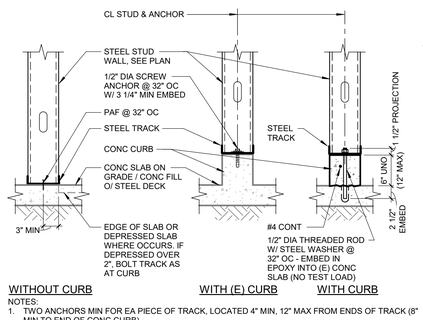
NOTES:
1. SEE ADJACENT TABLE FOR SSMA DESIGNATION OF MEMBERS REFERENCED IN PLANS / DETAILS
2. STUDS SHALL BE SPACED AT 24" OC MAX EXCEPT WHERE NOTED OTHERWISE. FOR WALLS WHERE "H" EXCEEDS 9'-6": 3 5/8"X20GA STUDS SHALL BE SPACED @ 16" OC MAX
3. DETAILS AND MEMBER SIZES SHOWN ASSUME WALL WT OF 8 PSF AND DEFLECTION LIMITED TO H/120.
4. WALLS SUPPORTING TILE OR OTHER BRITTLE FINISHES WHERE DEFLECTION IS LIMITED TO H/240 SHALL BE THE FOLLOWING AT A MINIMUM:
   H = 9'-6" MAX: 3 5/8"X20GA MIN @ 16" OC MAX
   H = 16'-6" MAX: 3 5/8"X18GA MIN @ 16" OC MAX
5. WHERE DETAILS INDICATE SUPPORT OF CEILING / CASEWORK, THIS ASSUMES CASEWORK IN ADDITION TO CEILING FRAMING W/ A 12'-0" MAX SPAN EACH SIDE OF WALL. ASSUMED CEILING LOAD IS:
   DL = 10PSF; LL = 10PSF.
   ASSUMED CASEWORK LOAD IS: 100 PLF.
6. STUDS SUPPORTING CEILINGS OR WALL MOUNTED CASEWORK / EQUIPMENT SHALL BE 20GA MIN.



NOTE:
1. FOR OPENINGS WIDER THAN 4'-0", PROVIDE ADDL BRACE AT EA JAMB.

6 TYP CEILING HEIGHT CFSF WALL BRACING

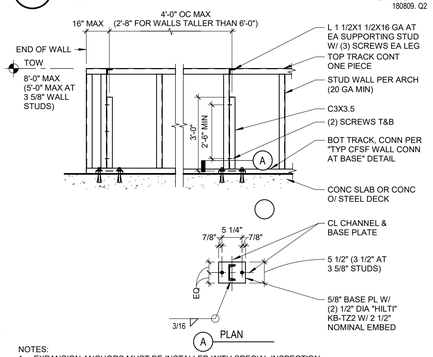
SCALE: NTS — S-_092216_T025A 180809. Q2



NOTES:
1. TWO ANCHORS MIN FOR EA PIECE OF TRACK, LOCATED 4" MIN, 12" MAX FROM ENDS OF TRACK (8" MIN TO END OF CONC CURB).
2. PROVIDE ADDITIONAL ANCHOR 4" MIN, 12" MAX FROM EA SIDE OF ANY SPLICES, HOLES OR NOTCHES IN TRACK GREATER THAN 1/3 THE TRACK WIDTH.
3. PROVIDE (1) SCREW FROM TRACK TO EA STUD FLANGE.
4. SCREW ANCHORS SHALL BE "SIMPSON" TITEN HD (ICC ESR 2713) OR "HILTI" KH-EZ (ICC ESR 3027).
5. EPOXY SHALL BE "SIMPSON" SET-XP (ICC ESR-2508) OR "HILTI" HY-200 (ICC ESR 3187).

3 TYP CFSF WALL CONN AT BASE

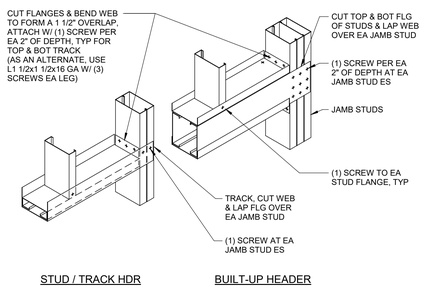
SCALE: NTS — S-_092216_T019C 220104. Q2



NOTES:
1. EXPANSION ANCHORS MUST BE INSTALLED WITH SPECIAL INSPECTION
2. THIS DETAIL IS DESIGNED TO SUPPORT 5 PSF LIVE LOAD ON WALL SURFACE OR 50 PLF RAILING LIVE LOAD APPLIED AT 2'-10" ABOVE BASE.

7 TYP CFSF PARTIAL HEIGHT WALL CONN

SCALE: NTS — S-_092216_T009A 211104



OPENING WIDTH, L	4' MAX	8' MAX	12' MAX
TYP HDR	TYP STUD; 16 GA MIN TRACK W/ 2 1/2" FLANGE	TYP TRACK; TYP STUD; TYP TRACK	18 GA MIN TRACK; 600S137-43; 18 GA MIN TRACK
	HA1	HA2	HA3
HDR SUPPORTING CEILING / CASEWORK	TYP TRACK; 600S137-33; TYP TRACK	TYP TRACK; 600S137-54; TYP TRACK	18 GA MIN TRACK; 1000S162-54; 18 GA MIN TRACK
	HAC1	HAC2	HAC3

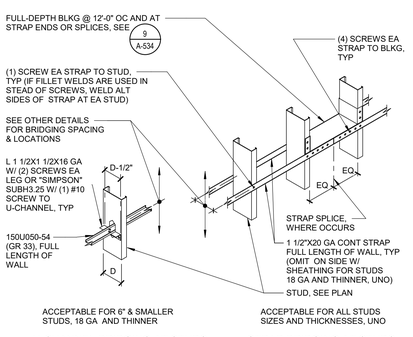
NOTES:
1. PROVIDE FASTENERS SPACED @ 12" OC WHERE SHOWN.
2. ALL MATERIAL IN HEADERS TO BE 20GA MIN, UNO.

11 TYP CFSF HEADER CONN TO JAMBS

SCALE: NTS — S-_092216_T023A 140314. Q2

15 TYP CFSF HEADERS

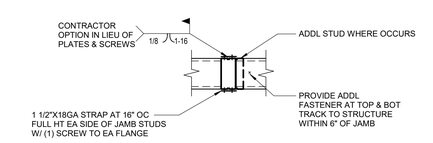
SCALE: NTS — S-_092216_T013A 190926. Q2



4 TYP STEEL STUD BRIDGING

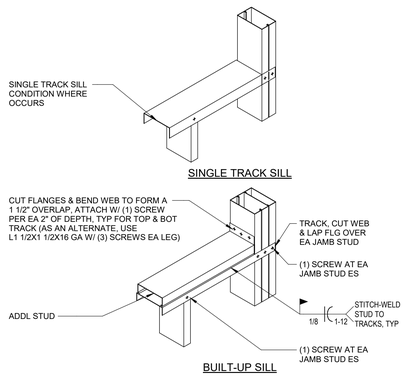
SCALE: NTS — S-_092216_T004A 170113. Q2

NUMBER OF JAMB STUDS EACH SIDE OF OPENING												
MAX WALL HEIGHT, H		9'-6"						16'-6"				
STUD DEPTH		3 5/8" OR 4"			6"			3 5/8" OR 4"			6"	
JAMB GA		20	18	16	20	18	16	20	18	16	20	18	16
MAX OPNG SIZE, L — W/O CEILING OR CASEWORK	4'	1	1	1	1	1	1	2	2	1	1	1	1
	8'	1	1	1	1	1	1	3	3	2	2	2	1
	12'	2	1	1	1	1	1	4	3	2	2	2	2
MAX OPNG SIZE, L — W/ CEILING OR CASEWORK	4'	1	1	1	1	1	1	3	2	2	2	1	1
	8'	2	2	1	2	2	1	-	4	3	4	2	2
	12'	3	2	2	3	2	2	-	-	4	-	3	2



8 TYP CFSF JAMBS

SCALE: NTS — S-_092216_T014A 190926. Q2



12 TYP CFSF SILL CONN TO JAMBS

SCALE: NTS — S-_092216_T024A 170626. Q2

OPENING WIDTH, L	4' MAX	8' MAX	12' MAX
TYP SILL	TYP TRACK	TYP TRACK	TYP STUD; TYP TRACK; OR; 16GA TRACK
	SA1	SA2	SA3

NOTES:
1. PROVIDE FASTENERS SPACED @ 12" OC WHERE SHOWN.
2. ALL MATERIAL IN SILLS TO BE 20GA MIN, UNO.

16 TYP CFSF SILLS

SCALE: NTS — S-_092216_T012A 140314. Q2

COLD-FORMED STEEL FRAMING

S-_092216_N001A 190926. Q2

1. THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED STEEL FRAMING SHALL BE IN ACCORDANCE WITH THE FOLLOWING AISI NORTH AMERICAN STANDARDS:

   S100 - SPECIFICATION FOR THE DESIGN OF STRUCTURAL MEMBERS
   S200 - GENERAL PROVISIONS
   S211 - WALL STUD DESIGN
   S212 - HEADER DESIGN

2. ALL PRODUCTS SHALL BE MANUFACTURED BY A CURRENT MEMBER OF THE "STEEL STUD MANUFACTURERS ASSOCIATION" (SSMA) OR "STEEL FRAMING INDUSTRY ASSOCIATION" (SFIA) WITH DIMENSIONS, SECTION PROPERTIES AND MATERIALS IN COMPLIANCE WITH THE AISI D100 MANUAL OF COLD-FORMED STEEL DESIGN.
3. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED.
4. STEEL MEMBERS AND COMPONENTS SHALL BE GALVANIZED ZINC-COATED PER ASTM A653 WITH G40 COATING WEIGHTS UNO.
5. STEEL MEMBERS 20 GA (0.033" THICKNESS) AND 18 GA SHALL BE MANUFACTURED PER A1003 STRUCTURAL GRADE 33, TYPE H (ST33H) AND 16 GA OR HEAVIER PER A1003 STRUCTURAL GRADE 50, TYPE H (ST50H).
6. THE MINIMUM UNCOATED STEEL THICKNESS AS DELIVERED TO THE JOBSITE SHALL BE: 25 GA = 0.018", 22 GA = 0.027", 20 GA = 0.033", 18 GA = 0.043", 16 GA = 0.054". 14 GA = 0.068", 12 GA = 0.097".
7. STUDS/JOISTS SHALL HAVE WEB PUNCH-OUTS AT 24" OC AT MID-DEPTH. PUNCH-OUTS SHALL NOT EXCEED 1 1/2" IN WIDTH, AND 4" IN LENGTH. NO OTHER OPENINGS IN STUDS/JOISTS ARE PERMITTED UNLESS SPECIFICALLY DETAILED.
8. TRACK SHALL MATCH STUD/JOIST DEPTH & GAGE, AND FLANGE WIDTH SHALL BE 1 1/4", TYP, UNO. ALL TRACKS TO BE UNPUNCHED WITH SOLID WEBS.
9. FASTENING OF FRAMING COMPONENTS SHALL BE WITH SELF-DRILLING SELF-TAPPING SCREWS OR WELDING. WHERE DETAILS CALL FOR SCREWS, THE MINIMUM SIZES SHALL BE AS FOLLOWS: #6 FOR 22 GA OR LIGHTER MATERIAL, #8 FOR 20 GA MATERIAL, #10 FOR 18 & 16 GA MATERIAL, & #12 FOR 14 GA OR HEAVIER MATERIAL, TYP UNO. SCREW SIZE IS DETERMINED BY THE GA OF THE THICKEST PART BEING JOINED UNO. INSTALL SCREWS WITH THE HEAD IN CONTACT WITH THE THINNEST PART BEING JOINED UNO. AS AN ALTERNATE, STEEL MEMBERS 18 GA OR HEAVIER MAY BE WELDED WITH A 1/2" LONG WELD (FILLET OR FLARE GROOVE) INSTEAD OF EACH SCREW, TYP UNO.
10. SCREW SPACING SHALL NOT BE LESS THAN 3 TIMES THE NOMINAL SCREW DIAMETER. SCREW EDGE DISTANCE SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL SCREW DIAMETER. PENETRATION OF SCREWS THROUGH JOINED MATERIALS SHALL NOT BE LESS THAN 3 EXPOSED THREADS. SCREW HEADS SHALL BE LOW-PROFILE TYPE.
11. SCREWS SHALL CONFORM WITH ASTM C1513 AND HAVE A CORROSION-RESISTANT COATING.
12. BOLTS SHALL BE INSTALLED IN STANDARD SIZE HOLES, UNO. STANDARD SIZE HOLES SHALL BE BOLT DIA + 1/32" FOR BOLTS SMALLER THAN 1/2" DIA, AND BOLT DIA + 1/16" AT 1/2" DIA AND LARGER BOLTS.
13. WELDING SHALL CONFORM WITH AWS D1.3. WELDING TO STRUCTURAL STEEL SHALL ALSO CONFORM WITH AWS D1.1. THE ELECTRODES USED FOR WELDING SHALL HAVE A MINIMUM YIELD STRENGTH OF 60 KSI. WELDS OF GALVANIZED STEEL SHALL BE COATED WITH A ZINC-RICH PAINT.
14. FASTENING OF SHEATHING SHALL BE WITH SELF-DRILLING SELF-TAPPING SCREWS @ 12" OC MAX AT ALL BEARINGS. #6 MIN FOR GYPSUM BOARD & #8 MIN FOR STRUCTURAL PANELS. SCREW HEADS SHALL BE COUNTER SUNK FLAT-PROFILE TYPE.
15. FRAME INDIVIDUAL MEMBERS AND EACH ELEMENT OF BUILT-UP MEMBERS, CONTINUOUS ONE PIECE BETWEEN SUPPORTS. SPLICE ONLY WHERE SPECIFICALLY NOTED.
16. PAF FASTENERS SHALL BE "HILTI" X-U (ICC ESR 2269), TYP UNO. INSTALLATION OF FASTENER SHALL BE IN ACCORDANCE WITH THE EVALUATION AGENCY REPORT. UNO, INSTALL FASTENERS WITH SUFFICIENT EDGE DISTANCE AND SPACING TO ACHIEVE FULL CAPACITY.
17. PAF FASTENERS TO CONCRETE SHALL HAVE 1" MIN EMBEDMENT INTO CONCRETE, TYP UNO.
18. PAF FASTENERS TO STRUCTURAL STEEL SHALL HAVE MIN EMBEDMENT TO STEEL PER MANUFACTURER, TYP UNO.
19. COORDINATE DETAILS AND ATTACHMENTS WITH THE REQUIREMENTS OF ANY FIRE RATED ASSEMBLY OR UL LISTING INDICATED AND PROVIDE ADDITIONAL COMPONENTS AND FASTENERS AS REQUIRED.

Draft

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SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
DETAILS - INTERIOR COLD FORMED FRAMING

SHEET
A-533

V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
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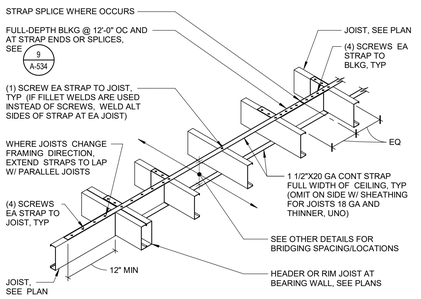
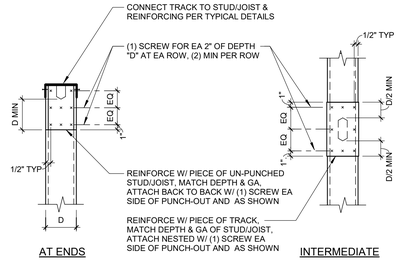


STRAP BRIDGING AT JOISTS

1 TYP STEEL JOIST BRIDGING

SCALE: NTS — S-_092216_T004B 161223. Q2

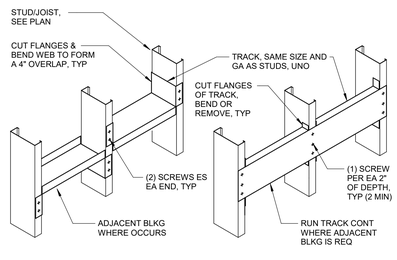


AT ENDS — INTERMEDIATE

NOTES:
1. USE ONLY WHERE NOTED IN OTHER DETAILS.
2. ORIENTATION SHOWN IS FOR STUD, JOIST CONDITION SIMILAR.

5 TYP STEEL STUD / JOIST PUNCH-OUT REINFORCING

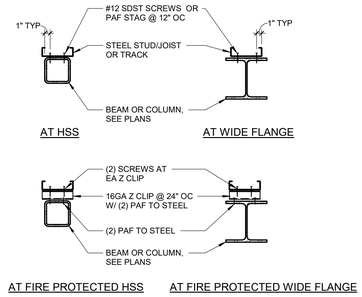
SCALE: NTS — S-_092216_T010A 140314. Q2



FULL DEPTH BLOCKING — FLAT BLOCKING

9 TYP STEEL STUD / JOIST BLOCKING

SCALE: NTS — S-_092216_T003A 140314. Q2

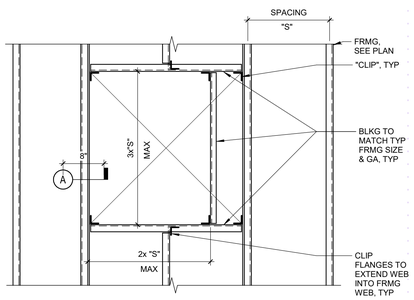


AT HSS — AT WIDE FLANGE — AT FIRE PROTECTED HSS — AT FIRE PROTECTED WIDE FLANGE

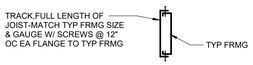
NOTES:
1. SIMILAR AT OTHER STEEL SHAPES

13 TYP STEEL STUD / JOIST CONNECTION TO STRUCTURAL STEEL

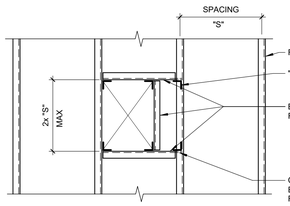
SCALE: NTS — S-_092216_T007A 140314. Q2



OPENINGS CUTTING FRAMING MEMBER



A SECTION AT FULL LENGTH JOISTS ES OF OPENING

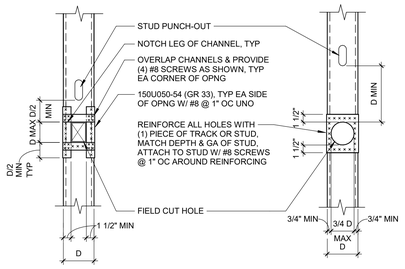


OPENINGS NOT CUTTING A FRAMING MEMBER

NOTE:
1. "CLIP" REFERS TO 16 GA L1 1/2X1 1/2X (FRMG DEPTH-1") W/ (1) SCREW PER 2" OF FRMG DEPTH AT EA LEG.

3 TYP STEEL JOIST/RAFTER FRAMING AT OPENINGS

SCALE: NTS — S-_092216_T032B 170626. Q2

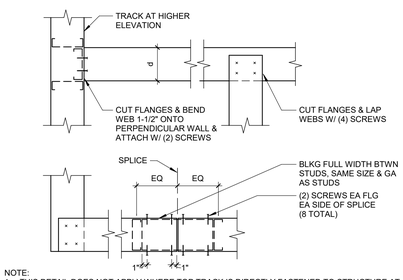


SQUARE/CIRCULAR HOLE — CIRCULAR HOLES

NOTES:
1. NO HOLES ARE PERMITTED WITHIN 12" OF STUD SUPPORTS.
2. REINFORCING IS NOT REQUIRED FOR CIRCULAR HOLES WITH DIAMETER LESS THAN 1/2 D THAT HAVE A CLEAR DIMENSION OF D MIN BETWEEN ADJACENT OPENINGS / PUNCHOUTS.
3. HOLES CLOSER TO PUNCH-OUTS THAN NOTED ARE PERMITTED PROVIDED THE COMBINED PUNCH-OUT/OPENING MEETS THE SIZE LIMITATIONS AND IS REINFORCED AS SHOWN.

6 TYP STEEL STUD HOLE REINFORCING

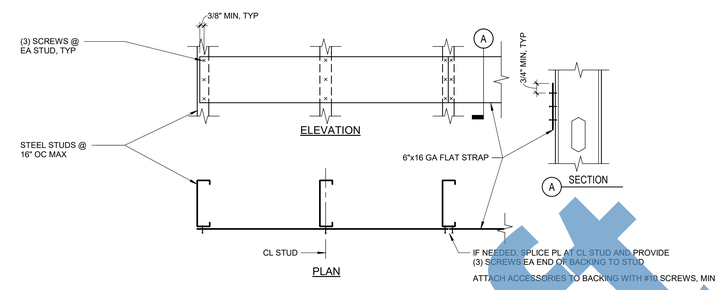
SCALE: NTS — S-_092216_T016A 170828. Q2



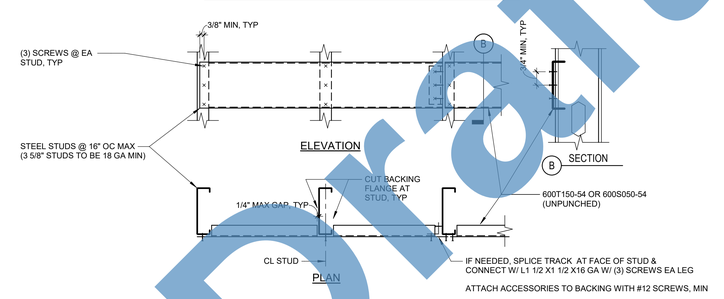
NOTE:
1. THIS DETAIL DOES NOT APPLY WHERE TOP TRACK IS DIRECTLY FASTENED TO STRUCTURE AT 24" OC MAX, UNO.

10 TYP STEEL TOP TRACK FRAMING AT CORNERS, INTERSECTIONS, AND SPLICES

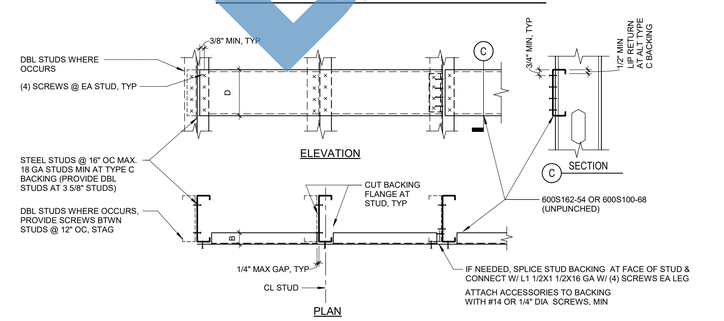
SCALE: NTS — S-_092216_T030A 160712. Q2



TYPE A USE FOR: MIRRORS, FLAT SIGNS, TACK BOARDS, CHALKBOARDS, BULLETIN BOARDS, MARKER BOARDS, FRAMED ARTWORK



TYPE B USE FOR: TOILET & BATH ACCESSORIES UNO, DOOR STOPS, DOOR HOLDERS, CABINETS, DISPLAY CASES AND TOILET PARTITIONS.

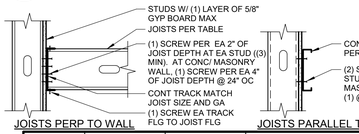


TYPE C USE FOR: GRAB BARS, SHOWER SEATS, SHELF BRACKETS, COUNTERTOP BRACKETS, URINAL SCREENS, AND SINK BRACKETS

NOTES:
1. DO NOT CUT OR NOTCH STUDS TO INSTALL BACKING.
2. BACKING CONT ONE PIECE OVER (3) STUDS MIN. DO NOT CUT OR NOTCH BACKING EXCEPT AS SHOWN.
3. VERIFY LENGTH, HEIGHT, QUANTITY & LOCATION OF BACKING WITH ARCHITECTURAL DETAILS AND ACCESSORY MANUFACTURER.
4. EXTEND BACKING TO FIRST STUD PAST END OF ATTACHED ACCESSORY.
5. DEEPER BACKING MAY BE USED. ADD (1) SCREW AT EA CONN FOR EA 2" INCREASE IN DEPTH.
6. SEE "COLD FORMED STEEL FRAMING" NOTES FOR SCREW SIZES, UNO. USE LOW-PROFILE SCREW HEADS FOR BACKING TO STUD CONNECTION.

16 TYP STEEL STUD WALL BACKING PLATE

SCALE: NTS — S-_092216_T002B 170626. Q2



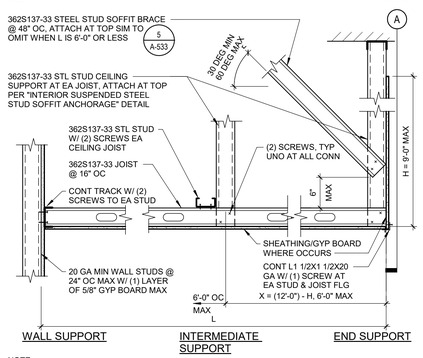
JOISTS PERP TO WALL — JOISTS PARALLEL TO WALL

MAX JOIST SPAN	JOIST SPACING	JOIST SIZE	MAX BRIDGING SPACING	
			SHEATHING ON ONE SIDE	SHEATING ON BOTH SIDES
6'-0"	24"	362S137-43	NONE	NONE
	16"	362S137-33	NONE	NONE
8'-0"	24"	362S137-43	4'-0"	NONE
	16"	362S137-33	5'-0"	NONE
12'-0"	24"	600S137-54	6'-0"	NONE
	16"	600S137-43	6'-0"	NONE
16'-0"	24"	800S137-54	5'-0"	NONE
	16"	600S137-54	5'-0"	NONE

NOTES:
1. WALL STUDS SUPPORTING CEILING MEMBERS SHALL BE 20 GA MIN (2X4 MIN AT WOOD STUDS) SPACED @ 24" OC MAX.
2. WHERE BRIDGING IS REQUIRED, SEE TYP DETAIL.
3. DESIGN CAPACITY: DL = 10PSF, LL = 10PSF OR 200 LBS OVER 2'-6" TRIBUTARY WIDTH, DEFLECTION = L/180 MAX
4. SCREWS TO STUD WALLS SHALL BE #10 SCREWS (1 1/2" MIN EMBED AT WOOD). SCREWS TO CONC/MASONRY WALLS SHALL BE 1/4" DIA "HILTI" KH-EZ OR "DEWALT" SCREWBOLT+ W/ 1 5/8" MIN EMBED (SPACED @ 4" OC MIN) (ICC ESR 3027, 3056, 3889, OR 4042).

4 TYP CEILING CFSF JOISTS

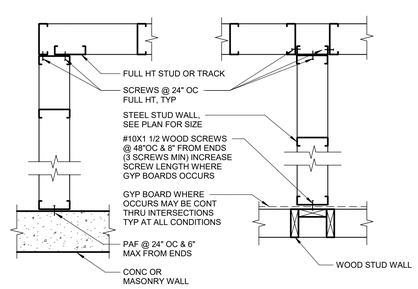
SCALE: NTS — S-_092216_T006A 220104



NOTE:
1. THIS DETAIL APPLIES TO NON-ACCESSIBLE CEILING SPACES ONLY.

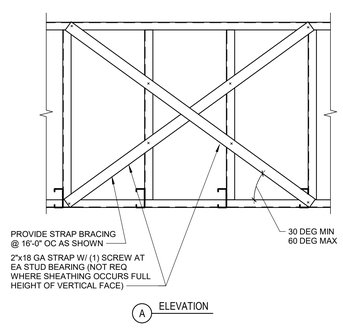
8 TYP INTERIOR SUSPENDED STEEL STUD SOFFIT/CEILING

SCALE: NTS — S-_092216_T005A 190926. Q2



11 TYP STEEL STUD WALL FRAMING AT CORNERS AND INTERSECTIONS

SCALE: NTS — S-_092216_T022A 140314. Q2



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MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
DETAILS - INTERIOR COLD FORMED FRAMING

SHEET
A-534

V1

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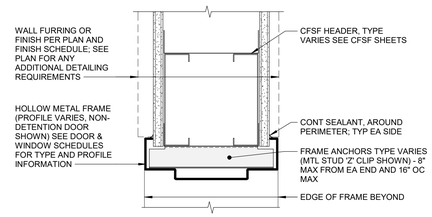
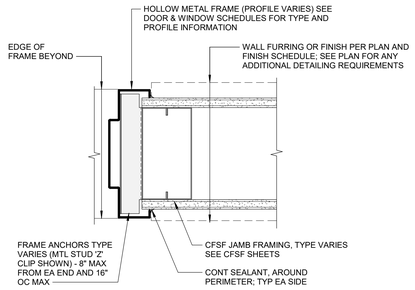


FOR ADDITIONAL FRAME PROFILE INFORMATION SEE DET 20 / A-541

5 HOLLOW MTL FRAME IN METAL STUD - HEAD

3" = 1'-0"

04/18/2022. Q1

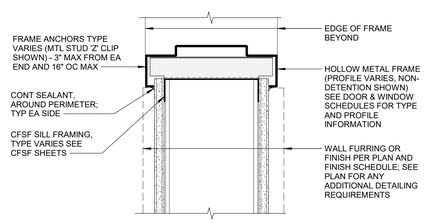


FOR ADDITIONAL FRAME PROFILE INFORMATION SEE DET 20 / A-541

6 HOLLOW MTL FRAME IN METAL STUD - HEAD

3" = 1'-0"

04/18/2022. Q1

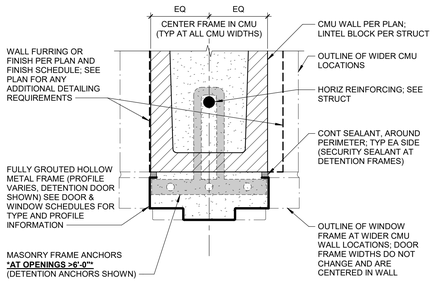


FOR ADDITIONAL FRAME PROFILE INFORMATION SEE DET 20 / A-541

7 HOLLOW MTL FRAME IN METAL STUD - SILL

3" = 1'-0"

04/18/2022. Q1

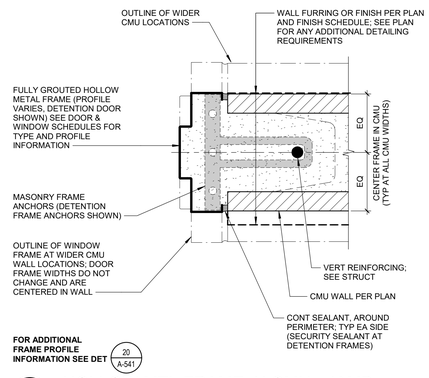


FOR ADDITIONAL FRAME PROFILE INFORMATION SEE DET 20 / A-541

9 HOLLOW MTL FRAME IN CMU - HEAD

3" = 1'-0"

04/18/2022. Q1

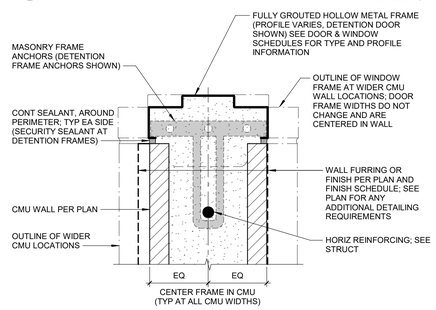


FOR ADDITIONAL FRAME PROFILE INFORMATION SEE DET 20 / A-541

10 HOLLOW MTL FRAME IN CMU - JAMB

3" = 1'-0"

04/18/2022. Q1

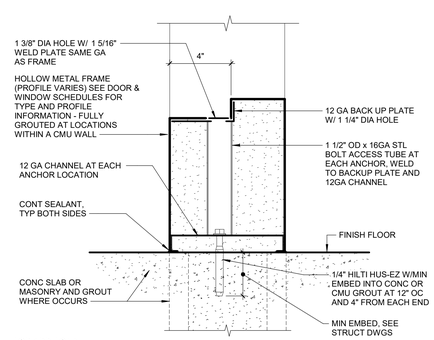


FOR ADDITIONAL FRAME PROFILE INFORMATION SEE DET 20 / A-541

11 HOLLOW MTL FRAME IN CMU - SILL

3" = 1'-0"

04/18/2022. Q1

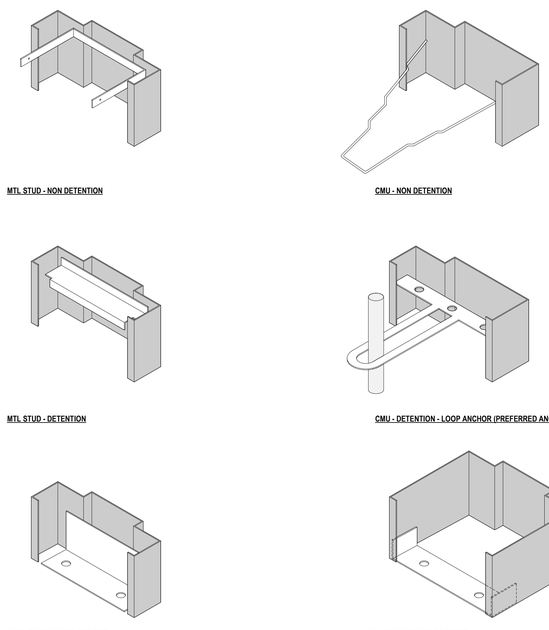


FOR ADDITIONAL FRAME PROFILE INFORMATION SEE DET 20 / A-541

12 HOLLOW MTL LITE - SILL

3" = 1'-0"

04/18/2022. Q1



14 HOLLOW MTL FRAME ANCHORAGE TYPES

3" = 1'-0"

04/18/2022. Q1

HOLLOW METAL FRAME IN CMU PROFILE DIMENSIONS

'A' - SEE FRAME TYPES ON SHEET A-621

'B' - DOOR
NON-DETENTION 1 15/16" UON
DETENTION = 2 3/16" UON
WINDOW
NON-DETENTION = 1 15/16" UON
DETENTION = 4" UON

'C' - DOOR
NON-DETENTION = 5/8" UON
DETENTION = 3/4" UON
WINDOW
NON-DETENTION = 1" UON
DETENTION = 1 1/4" UON

'D' - DOOR
7 3/4" @ 8" CMU
7 3/4" @ 12" CMU
WINDOW
11 3/4" @ 8" CMU
11 3/4" @ 12" CMU

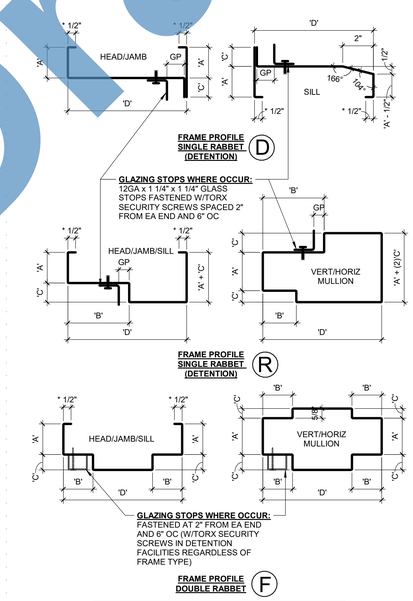
HOLLOW METAL FRAME IN MTL STUD PROFILE DIMENSIONS

'A' - SEE FRAME TYPES ON SHEET A-621

'B' - DOOR
1 15/16" UON
WINDOW
1 15/16" UON

'C' - DOOR
5/8" UON
WINDOW
1" UON

'D' - DOOR
NOM STUD DEPTH + (2)5/8" + 1/8" + ADDITIONAL WALL MESH ETC.
WINDOW
NOM STUD DEPTH + (2)5/8" + 1/8" + ADDITIONAL WALL MESH ETC.



*1/2" MIN RETURN TO ENGAGE FROM ANCHOR AND WALL

20 HOLLOW METAL FRAME PROFILES

3" = 1'-0"

04/18/2022. Q1

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C27266
REN. 06-30-25
STATE OF CALIFORNIA

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SEPTEMBER 11, 2023

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TITLE
DETAILS - DOOR AND WINDOW

SHEET
A-541

V1

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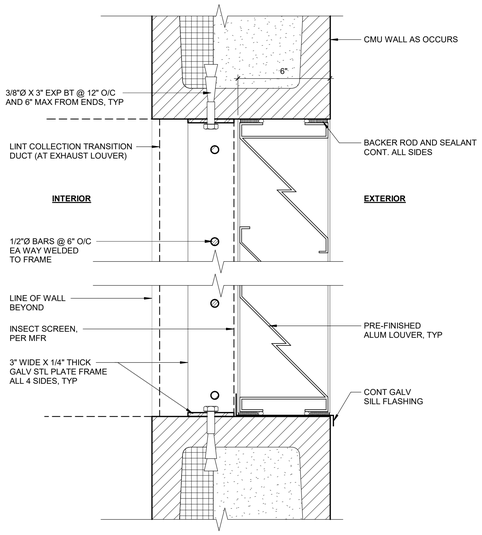
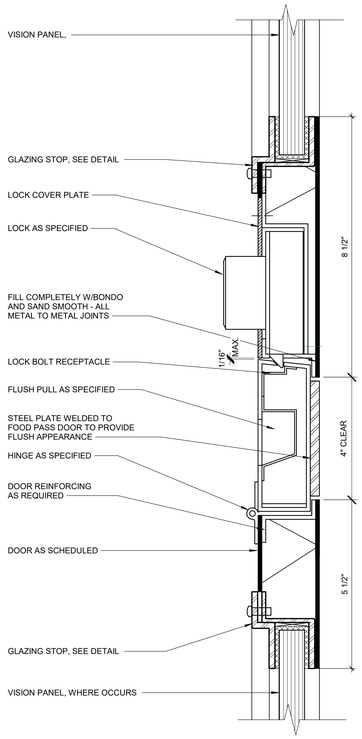
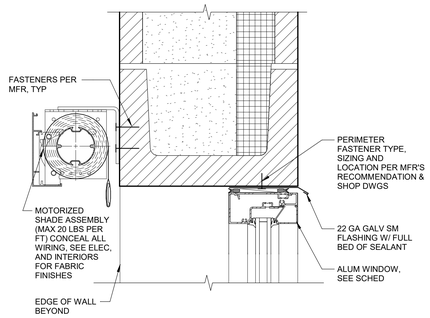


1 LOUVER HEAD AND SILL

3" = 1'-0"

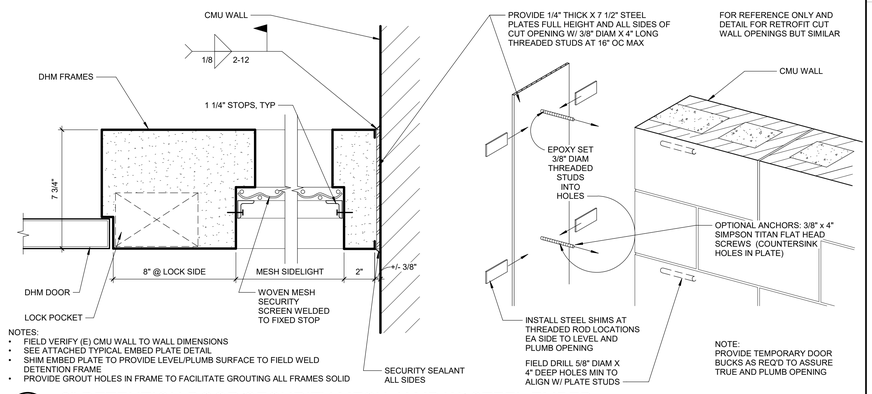
?DRS TRACKING NUMBER?
?YYMMDD?.Q1





9 ALUM WINDOW - HEAD AT MTL PANEL

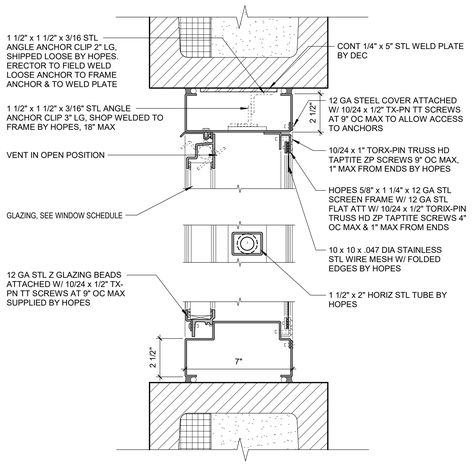
SCALE 3" = 1'-0"



NOTES:
- FIELD VERIFY (E) CMU WALL TO WALL DIMENSIONS
- SEE ATTACHED TYPICAL EMBED PLATE DETAIL
- SHIM EMBED PLATE TO PROVIDE LEVEL/PLUMB SURFACE TO FIELD WELD DETENTION FRAME
- PROVIDE GROUT HOLES IN FRAME TO FACILITATE GROUTING ALL FRAMES SOLID

13 8" DETENTION DOOR/SECURITY MESH JAMB W/ STEEL EMBED

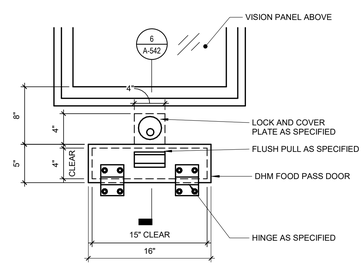
SCALE 3" = 1'-0"



3 OPERABLE WINDOW HEAD/SILL DETAIL

3" = 1'-0"

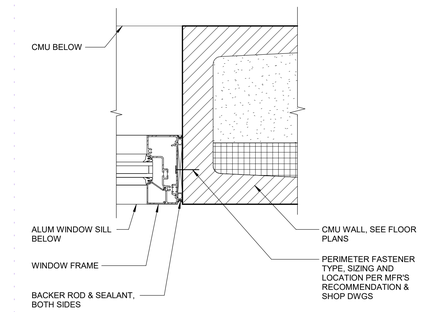
?DRS TRACKING NUMBER?
?YYMMDD?.Q1



6 CUFF PORT/FOOD PASS SECTION

6" = 1'-0"

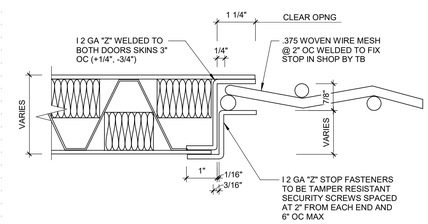
180611.Q1



10 ALUM WINDOW - JAMB AT CMU

SCALE 3" = 1'-0"

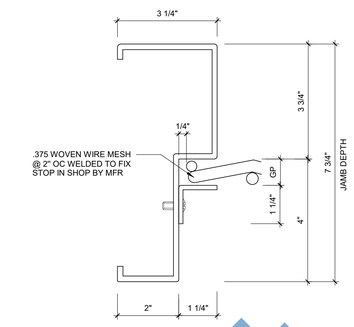
Q1



14 DOOR MESH DETAIL

6" = 1'-0"

Q1



18 FRAME MESH DETAIL

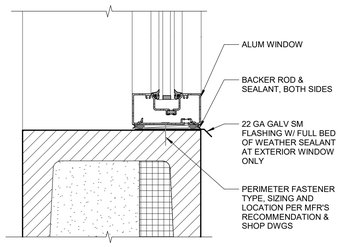
6" = 1'-0"

Q1

7 CUFF PORT/FOOD PASS ELEV

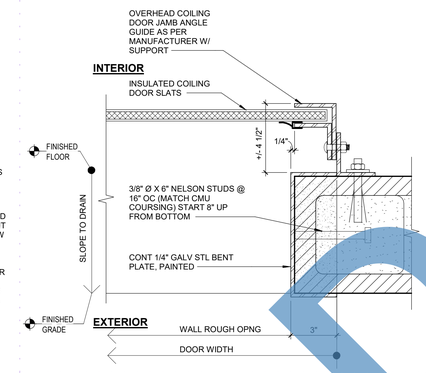
1 1/2" = 1'-0"

180611.Q1



11 ALUM WINDOW - SILL AT CMU

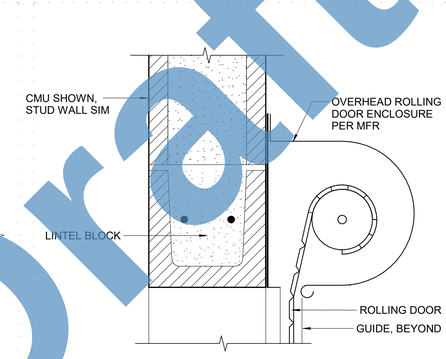
SCALE 3" = 1'-0"



15 COILING DOOR JAMB - EXTERIOR

3" = 1'-0"

?DRS TRACKING NUMBER?
?YYMMDD?.Q1

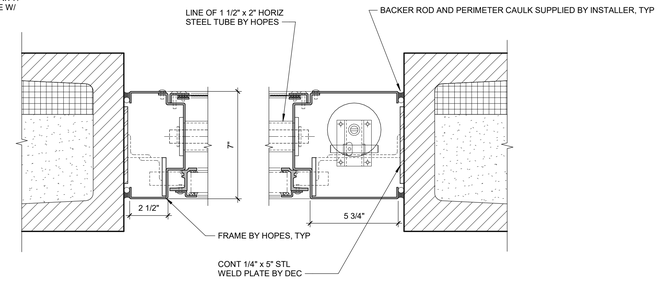


19 COILING OVERHEAD DOORHEAD

3" = 1'-0"

?DRS TRACKING NUMBER?
?YYMMDD?.Q1

NOTE: WINDOW ERECTOR TO FILL FRAMES W/ FIBERGLASS BATT INSULATION UPON COMPLETION OF WELDING OF ANCHORS. INSULATION NOT SHOWN FOR CLARITY. INSULATION SHALL NOT INTERFERE W/ OPERATING LINKAGE.



4 OPERABLE WINDOW JAMB DETAIL

3" = 1'-0"

?DRS TRACKING NUMBER?
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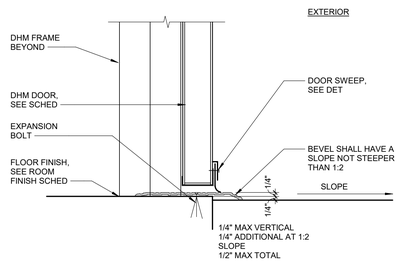
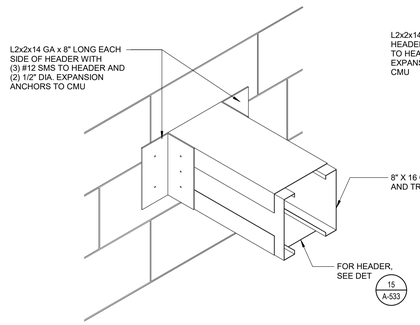


12 EXTERIOR DOOR THRESHOLD

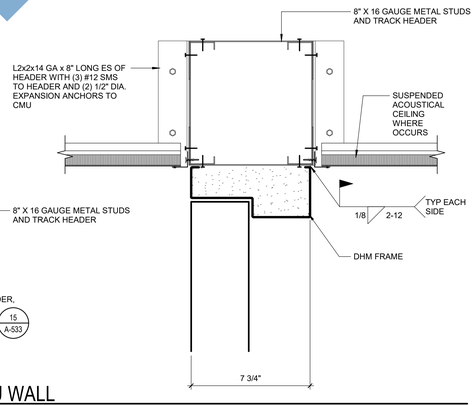
3" = 1'-0"

CV_540_33B_DOOR THRESHOLD EXT
15/06/05.Q1



16 DOOR HEADER ATTACHMENT TO CMU WALL

3" = 1'-0"



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TITLE
DETAILS - DOOR AND WINDOW

SHEET
A-542

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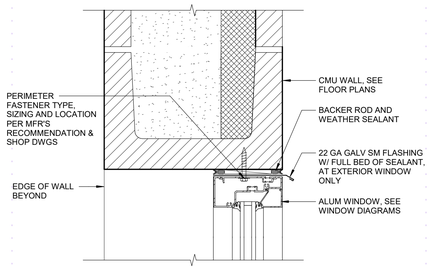
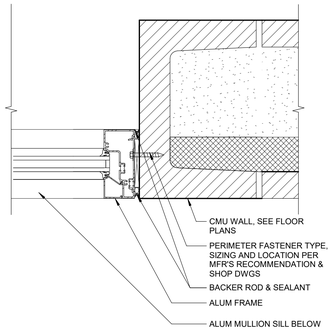


13 ALUM STOREFRONT - HEAD AT CMU

3" = 1'-0"

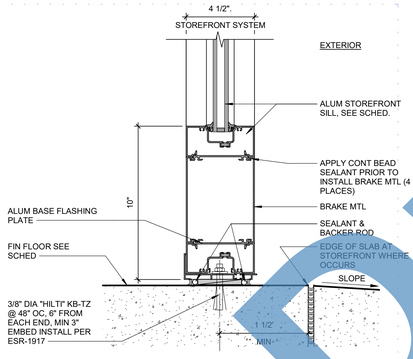
ALUM STOREFRONT - HEAD AT CMU
Q1



14 ALUM STOREFRONT - JAMB AT CMU

3" = 1'-0"

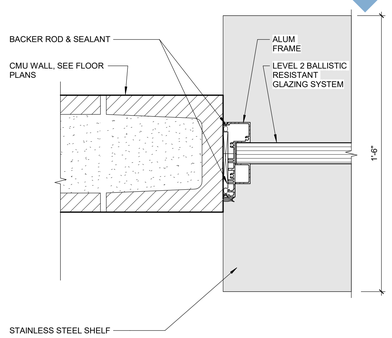
Q1



15 ALUM STOREFRONT - SILL AT CONC

3" = 1'-0"

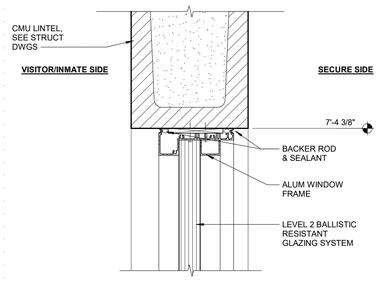
161013.Q1



16 BULLET RESISTANT ALUM WINDOW - JAMB

3" = 1'-0"

?DRS TRACKING NUMBER?
170613.Q1



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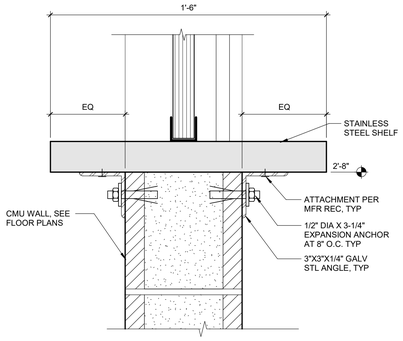
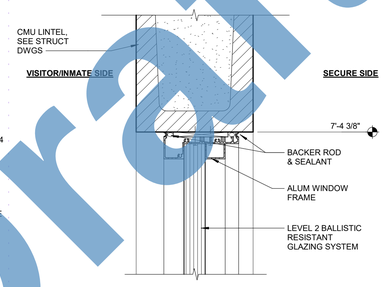


SILL

18 ALUM BULLET RESISTANT TRANSACTION WINDOW - HEAD & SILL

3" = 1'-0"

170613.Q1



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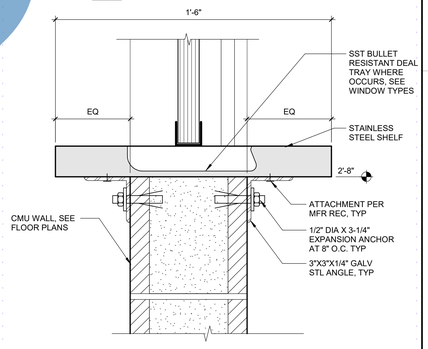

SILL

20 ALUM BULLET RESISTANT PASS-THRU WINDOW - HEAD & SILL

3" = 1'-0"

170613.Q1

Draft

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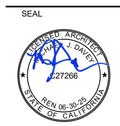

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
DETAILS - ALUMINUM FRAMES

SHEET
A-543

V1

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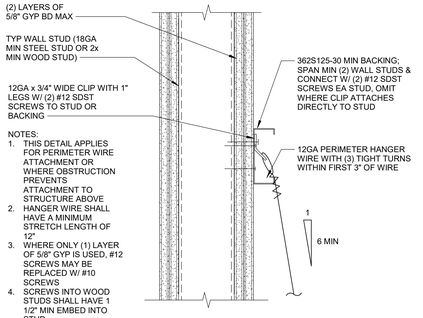
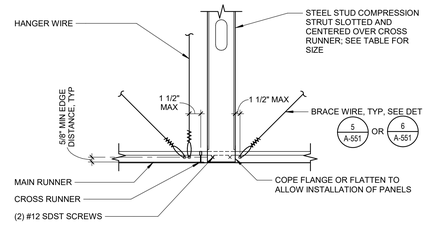


NOTES:
1. THIS DETAIL APPLIES FOR PERIMETER WIRE ATTACHMENT OR WHERE OBSTRUCTION PREVENTS ATTACHMENT TO STRUCTURE ABOVE
2. HANGER WIRE SHALL HAVE A MINIMUM STRETCH LENGTH OF 12"
3. WHERE ONLY (1) LAYER OF 5/8" GYP IS USED, #12 SCREWS MAY BE REPLACED W/ #10 SCREWS
4. SCREWS INTO WOOD STUDS SHALL HAVE 1 1/2" MIN EMBED INTO STUD

5 TYP HANGER WIRE TO STUD WALL

3" = 1'-0" 0550_0951_HGR WIRE TYP STUD WL_01

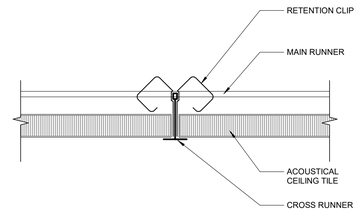


DISTANCE FROM CLG TO STRUCTURE ABOVE	COMPRESSION STRUT SIZE
≤ 8'-0"	362S125-30
≤ 12'-0"	362S162-33

NOTES:
1. DO NOT USE THIS DETAIL WHERE COMPRESSION STRUTS ARE VISIBLE TO BUILDING OCCUPANTS.
2. ALL PRODUCTS SHALL POSSESS DIMENSIONS, SECTION PROPERTIES, AND MATERIALS IN COMPLIANCE WITH THE AISI D100 MANUAL OF COLD-FORMED STEEL DESIGN AND BE MANUFACTURED BY A CURRENT MEMBER OF THE "STEEL STUD MANUFACTURER'S ASSOCIATION" (SSMA).
3. STEEL MEMBERS 18GA OR LIGHTER SHALL BE MANUFACTURED PER ASTM A653 SS, GRADE 33, AND 16 GA OR HEAVIER PER ASTM A653 SS, GRADE 50, CLASS I.

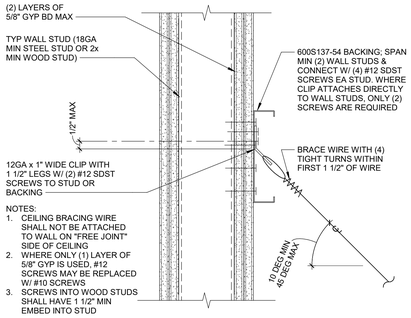
9 TYP STUD COMPRESSION STRUT

1 1/2" = 1'-0" 0550_0951_COMP STRUT TYP_01



13 ACOUSTICAL CEILING RETENTION CLIP

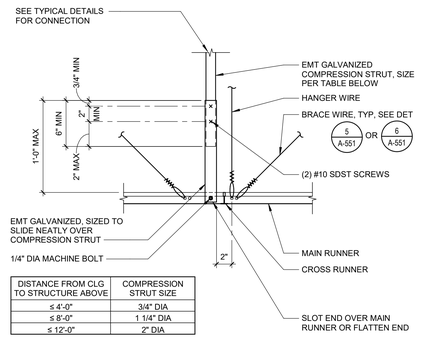
6" = 1'-0" 160922.Q1



NOTES:
1. CEILING BRACING WIRE SHALL NOT BE ATTACHED TO WALL ON "FREE JOINT" SIDE OF CEILING
2. WHERE ONLY (1) LAYER OF 5/8" GYP IS USED, #12 SCREWS MAY BE REPLACED W/ #10 SCREWS
3. SCREWS INTO WOOD STUDS SHALL HAVE 1 1/2" MIN EMBED INTO STUD

6 TYP BRACING WIRE TO STUD WALL

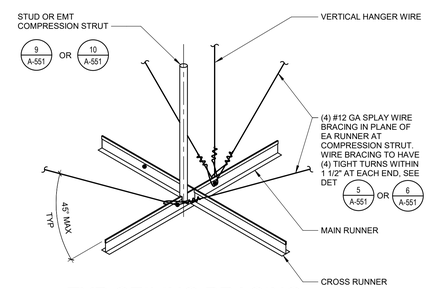
3" = 1'-0" 0550_0951_SUSP CLG BRCG WL_01



DISTANCE FROM CLG TO STRUCTURE ABOVE	COMPRESSION STRUT SIZE
≤ 4'-0"	3/4" DIA
≤ 8'-0"	1 1/4" DIA
≤ 12'-0"	2" DIA

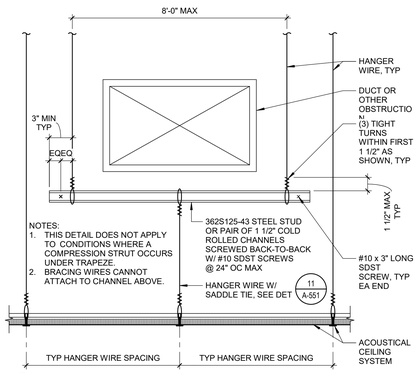
10 TYP EMT COMPRESSION STRUT

1 1/2" = 1'-0" 0550_0951_COMP STRUT EMT TYP_01



14 TYP CEILING BRACING ASSEMBLY

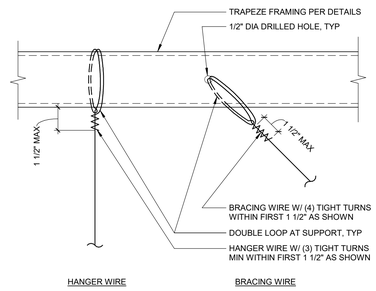
3/4" = 1'-0" 0550_0951_SUSP CLG BRCG_01



NOTES:
1. THIS DETAIL DOES NOT APPLY TO CONDITIONS WHERE A COMPRESSION STRUT OCCURS UNDER TRAPEZE.
2. BRACING WIRES CANNOT ATTACH TO CHANNEL ABOVE.

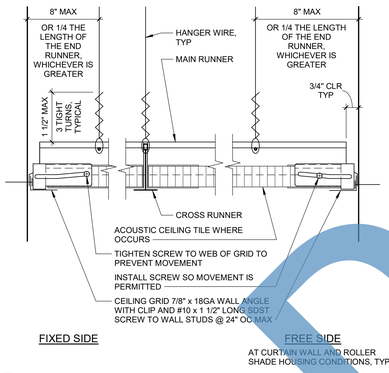
7 HANGER WIRE TRAPEZE

1 1/2" = 1'-0" 0550_0951_HGR WIRE TRAPEZE_01



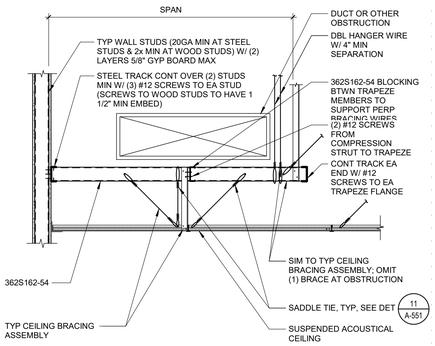
11 TYP SADDLE TIE

3" = 1'-0" 0550_0951_SADDLE TIE TYP_01



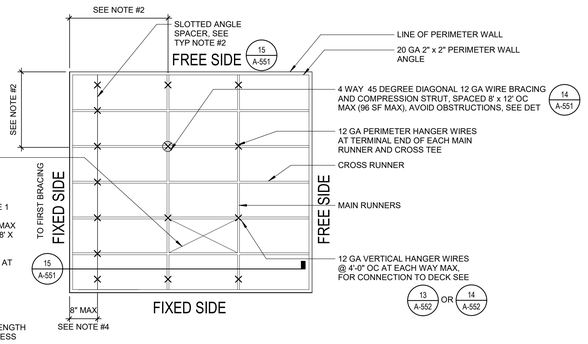
15 ACOUSTICAL CEILING EDGE

6" = 1'-0" 0550_0951_ACT EDGE_01



8 TRAPEZE AT COMPRESSION STRUT

3/4" = 1'-0" 0550_0951_COMP STRUT TRAPEZE_01



12 GA MIN WIRE AT 2 OPPOSITE CORNERS OF LIGHT FIXTURES AND AIR TERMINALS LESS THAN 56 LBS IF SUPPORTED DIRECTLY
ON HEAVY DUTY RUNNERS.
12 GA. MIN. WIRE AT ALL 4 CORNERS OF ALL 4 x 4 LIGHT FIXTURES AND AIR TERMINALS AND FIXTURES WEIGHING 56 LBS OR MORE. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION

NOTES:
1. TYPICAL ACOUSTIC CEILING TILE - TYPE 1 FOR DAYROOM - TYPE 2
2. 1/2 TYP BRACING ASSEMBLY SPACING MAX TO FIRST BRACE LINE AT LEAST 96 SF (8' X 12') BRACE SPACING
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAIN HANGER SPACING, SEE 7 A-551 OR 8 A-551
4. 8" MAX TO HANGER WIRE OR 1/4 THE LENGTH OF THE END RUNNER, WHICHEVER IS LESS

12 ACOUSTIC CEILING SUSPENSION

NTS ?DRS TRACKING NUMBER?

THESE REQUIREMENTS APPLY TO FLAT AND LEVEL CEILING SYSTEMS WHOSE TOTAL WEIGHT (INCLUDING CEILING-MOUNTED AIR TERMINALS, SERVICES, AND LIGHT FIXTURES) DOES NOT EXCEED FOUR (4) PSF.

1. SUSPENSION SYSTEM COMPONENTS SHALL COMPLY WITH ASTM C635 AND SECTION 5.1 OF ASTM E580.
2. THE CEILING GRID SYSTEM MUST BE RATED HEAVY-DUTY AS DEFINED BY ASTM C635.
3. CEILING WIRE SHALL BE CLASS 1 ZINC COATED (GALVANIZED) CARBON STEEL CONFORMING TO ASTM A641. WIRE SHALL BE #12 GAGE (0.106" DIAMETER) WITH SOFT TEMPER AND A MINIMUM TENSILE STRENGTH OF 70 ksi.
4. MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS IN COMPRESSION AND TENSION PER ASTM E580 SECTION 5.1.2.
5. SUSPENSION SYSTEM INSTALLATION SHALL COMPLY WITH ASTM C636, SECTION 5.2 OF ASTM E580, MANUFACTURER'S EVALUATION AGENCY REPORT, AND THE CONSTRUCTION DOCUMENTS.
6. CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
7. EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS.
8. FOR CEILING AREAS EXCEEDING 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 SQUARE FEET.
9. PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, PER ASTM E580, SECTION 5.2.8.5, A FLEXIBLE SPRINKLER HOSE FITTING THAT CAN ACCOMMODATE ONE (1) INCH OF CEILING MOVEMENT SHALL BE PERMITTED TO BE USED IN LIEU OF THE OVERSIZED RING, SLEEVE, OR ADAPTER.
10. LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS.
11. FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN THREE (3) INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS (SEE ASTM E580, SECTION 5.2.7.2).
12. FASTEN BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF ONE AND ONE-HALF (1 1/2) INCHES.
13. HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
14. SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUITS, AND ETC.
15. HANGER WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS, OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS.
16. HANGER WIRES THAT ARE MORE THAN ONE (HORIZONTAL) IN SIX (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES. WHERE PERIMETER HANGER WIRES AT MAIN RUNNERS ARE POSITIVELY ATTACHED TO THE PERIMETER CLOSURE ANGLE, COUNTER-SLOPING IS OPTIONAL. SEE ASTM C636 (FIGURE 1) FOR COUNTER-SLOPING METHODS.
17. ALL CEILING FIXTURES, TERMINALS, AND OTHER DEVICES SHALL BE MOUNTED IN A MANNER THAT WILL NOT COMPROMISE CEILING PERFORMANCE.
18. CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS, OR DEVICES.
19. ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY SCREWS OR APPROVED FASTENERS. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE PER ASTM E580, SECTION 5.3.1.
20. LIGHT FIXTURES WEIGHING LESS THAN OR EQUAL TO 10 LBS SHALL HAVE A MINIMUM OF ONE (1) #12 GAGE SLACK SAFETY WIRE CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
21. LIGHT FIXTURES WEIGHING GREATER THAN 10 LBS BUT LESS THAN OR EQUAL TO 56 LBS MAY BE SUPPORTED DIRECTLY ON THE CEILING RUNNERS, BUT THEY SHALL HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES CONNECTED FROM THE FIXTURE HOUSING AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.
22. LIGHT FIXTURES WEIGHING GREATER THAN 56 LBS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE.
23. ALL FOUR FOOT BY FOUR FOOT LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER UNLESS SUPPORTED AS FOR FIXTURES WEIGHING GREATER THAN 56 LBS.
24. SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM 8M GAGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAGE SUSPENSION WIRE SHALL BE ATTACHED FROM EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE EIGHT (8) FEET OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED EIGHT (8) FEET.
25. SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AS SHOWN ON ELECTRICAL DWGS. IF THE PENDANT-MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, IE, AIRCRAFT CABLES TO WALLS, THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING. IF THE PENDANT-MOUNTED LIGHT FIXTURE IS NOT DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, THEN A TYPICAL BRACING ASSEMBLY IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. WHERE THE WEIGHT OF THE FIXTURE IS LESS THAN 20 POUNDS, A COMPRESSION STRUT IS NOT REQUIRED FOR THE BRACING ASSEMBLY.
26. RIGID CONDUIT SHALL NOT BE USED FOR ATTACHMENT OF THE FIXTURES.
27. ALL FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION SYSTEMS BY SCREWS OR APPROVED FASTENERS. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
28. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 20 POUNDS SHALL HAVE ONE (1) 12 GAGE SLACK SAFETY WIRE ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
29. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 20 POUNDS BUT LESS THAN OR EQUAL TO 56 POUNDS SHALL HAVE TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
30. FLEXIBLE SPRINKLER HOSE FITTINGS, CEILING-MOUNTED AIR TERMINALS OR OTHER SERVICES WEIGHING MORE THAN 56 POUNDS SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED FROM THE TERMINAL OR SERVICE TO THE STRUCTURE ABOVE.
31. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, OCCUPANCY SENSORS, SPEAKERS, EXIT SIGNS, AND ETC, SHALL BE ATTACHED TO THE CEILING GRID BY SCREWS OR APPROVED FASTENERS. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH COMPONENT.
32. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES WEIGHING MORE THAN 10 POUNDS SHALL HAVE A #12 GAGE SLACK SAFETY WIRE FROM THE DEVICE TO THE STRUCTURE ABOVE.
33. ALL LIGHTWEIGHT MISCELLANEOUS DEVICES WEIGHING MORE THAN 20 POUNDS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES ATTACHED FROM THE DEVICE TO THE STRUCTURE ABOVE.
34. METAL PANELS AND PANELS WEIGHING MORE THAN ONE-HALF (1/2) PSF, OTHER THAN MINERAL FIBER ACOUSTICAL TILE, ARE TO BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION RUNNERS.

20 SUSPENDED CEILING NOTES

1/2" = 1'-0" 0550_XXXX_SUSP GYP BD NOTES_02

DRAFT

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AGENCY

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SEAL

PROJECT
MONO COUNTY NEW JAIL

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

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TITLE
DETAILS - CEILING

SHEET
A-551

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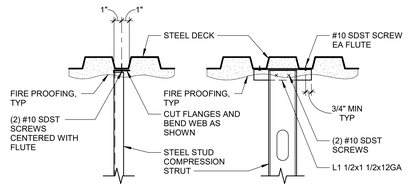
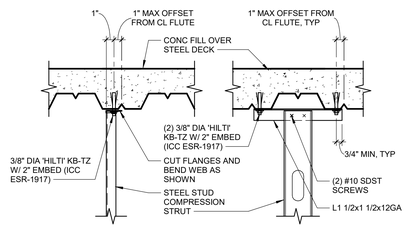


OPTION 1 OPTION 2

9 STUD COMPRESSION STRUT TO STEEL DECK

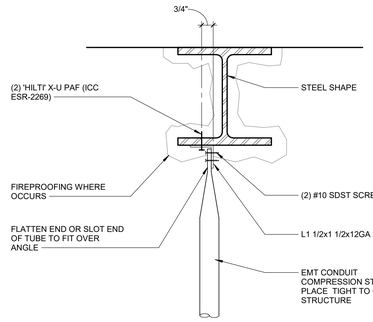
1 1/2" = 1'-0" 0550_0951_COMP STRUT STL DECK_01



OPTION 1 OPTION 2

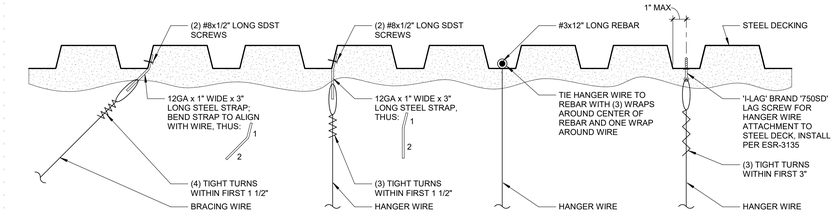
10 STUD COMPRESSION STRUT TO CONC FILLED STEEL DECK

1 1/2" = 1'-0" 0550_0951_COMP STRUT STL DECK CONC_01



11 EMT COMPRESSION STRUT TO STEEL BEAM

3" = 1'-0" 0550_0951_COMP STRUT EMT ST BM_01

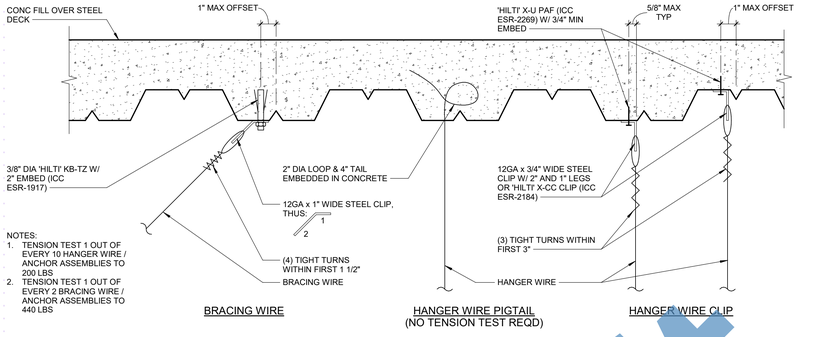


BRACING WIRE HANGER WIRE STRAP HANGER WIRE ANCHOR HANGER WIRE SCREW

NOTE: STEEL DECK TO BE 20GA MIN

13 CEILING WIRE CONNECTION TO STEEL DECK

3" = 1'-0" 0550_0951_CLG WIRE STL DECK_01

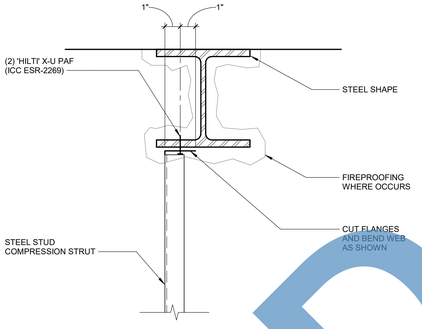


NOTES:
1. TENSION TEST 1 OUT OF EVERY 10 HANGER WIRE / ANCHOR ASSEMBLIES TO 200 LBS
2. TENSION TEST 1 OUT OF EVERY 2 BRACING WIRE / ANCHOR ASSEMBLIES TO 440 LBS

BRACING WIRE HANGER WIRE PIGTAIL (NO TENSION TEST REQD) HANGER WIRE CLIP

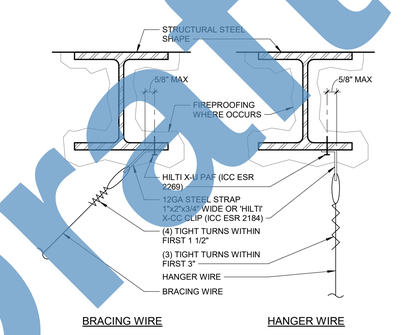
14 CEILING WIRE CONNECTION TO CONC FILLED STEEL DECK

3" = 1'-0" 0550_0951_CLG WIRE STL DECK CONC_01



15 STUD COMPRESSION STRUT TO STEEL BEAM

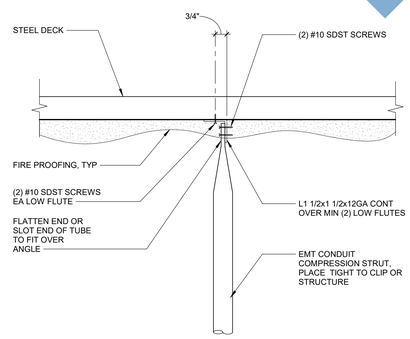
3" = 1'-0" 0550_0951_COMP STRUT ST BM_01



BRACING WIRE HANGER WIRE

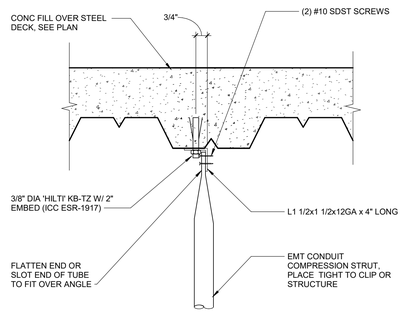
19 CEILING WIRE CONNECTION TO STEEL BEAM

3" = 1'-0" 0550_0951_CLG WIRE ST BM_01



16 EMT COMPRESSION STRUT TO STEEL DECK

3" = 1'-0" 0550_0951_COMP STRUT EMT STL DECK_01



20 EMT COMPRESSION STRUT TO CONC FILLED STEEL DECK

3" = 1'-0" 0550_0951_COMP STRUT EMT STL DECK CONC_01

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CLIENT
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P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

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TITLE
DETAILS - CEILING

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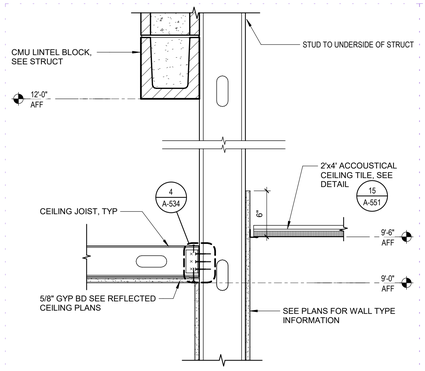
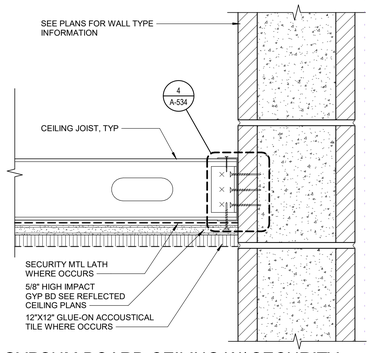
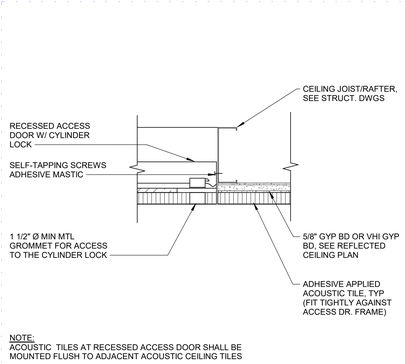


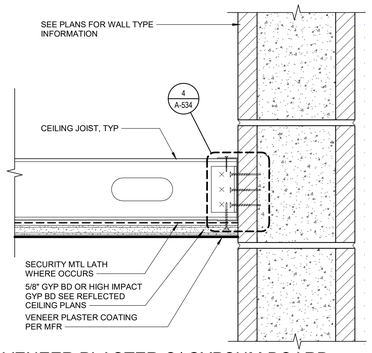
5 CMU HEADER ABOVE GYP BD CLG
1 1/2" = 1'-0"
04/23/2015.Q1



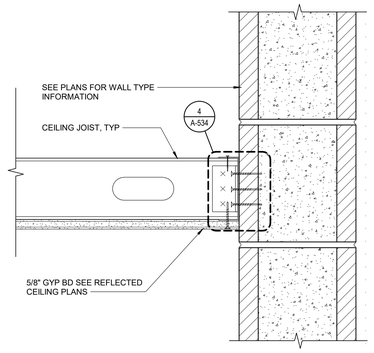
9 GYPSUM BOARD CEILING W/ SECURITY METAL LATH
3" = 1'-0"
160922.Q1



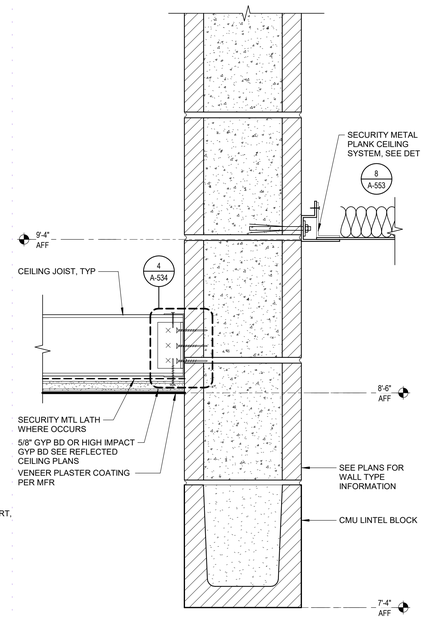
13 CEILING ACCESS DOOR
3" = 1'-0"
08/15/2014.Q1



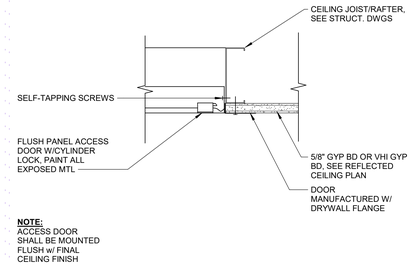
17 VENEER PLASTER O/ GYPSUM BOARD CEILING W/ SECURITY METAL LATH
3" = 1'-0"
160922.Q1



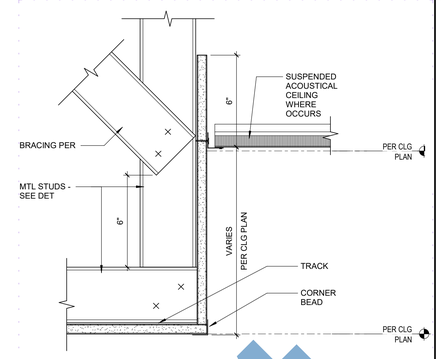
6 GYPSUM BOARD CEILING
3" = 1'-0"
160922.Q1



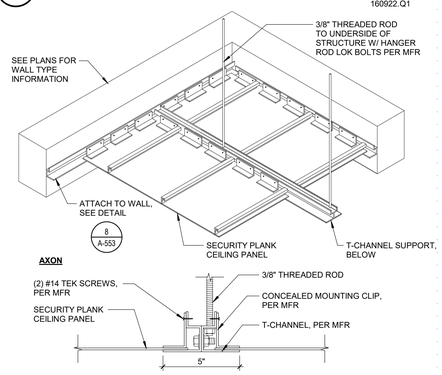
11 SUSPENDED SECURITY PLANK AND GYP CEILING @ HEADER
3" = 1'-0"
160908.Q1



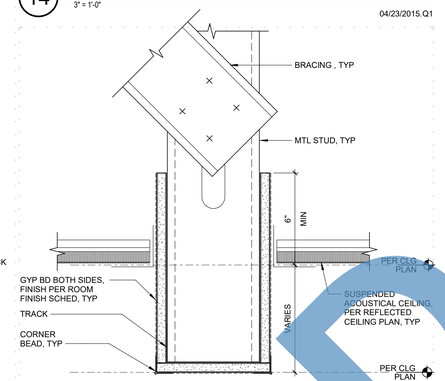
14 CEILING ACCESS DOOR - FLUSH
3" = 1'-0"
04/23/2015.Q1



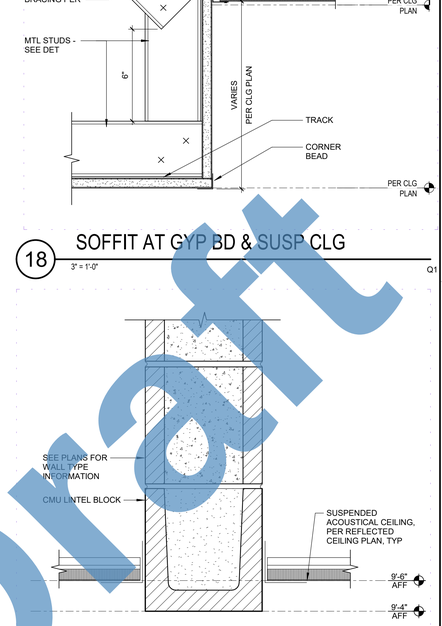
18 SOFFIT AT GYP BD & SUSP CLG
3" = 1'-0"
Q1



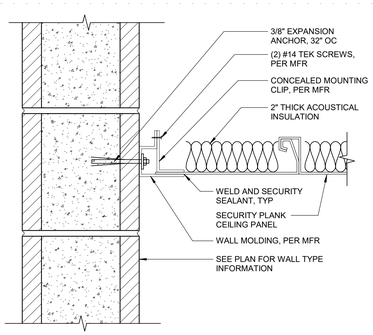
7 SUSPENDED SECURITY PLANK CEILING
3" = 1'-0"
?DRS TRACKING NUMBER? ?YYMMDD?. Q1



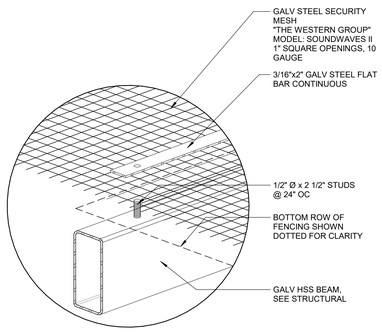
15 TRANSITION SOFFIT - ACOUSTICAL CLG
3" = 1'-0"
Q1



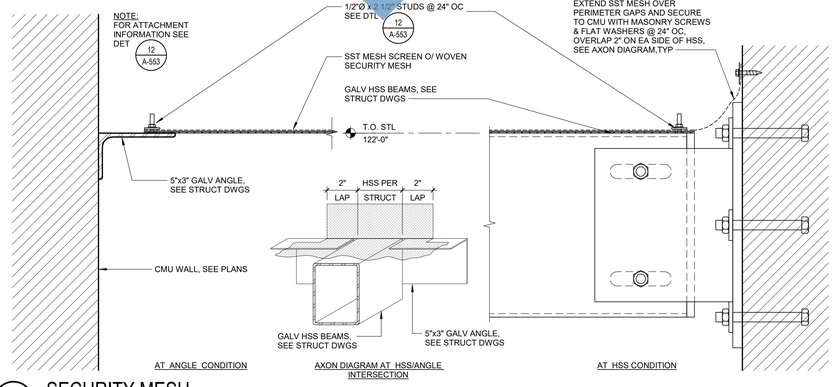
19 CMU HEADER - ACT CLG TO ACT CLG
3" = 1'-0"
Q1



8 SUSPENDED SECURITY PLANK CEILING WALL ATTACHMENT
3" = 1'-0"
160908.Q1



12 SECURITY MESH ATTACHMENT
1 1/2" = 1'-0"
160908.Q1



16 SECURITY MESH
3" = 1'-0"
160908.Q1

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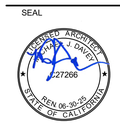

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TITLE
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SHEET
A-553

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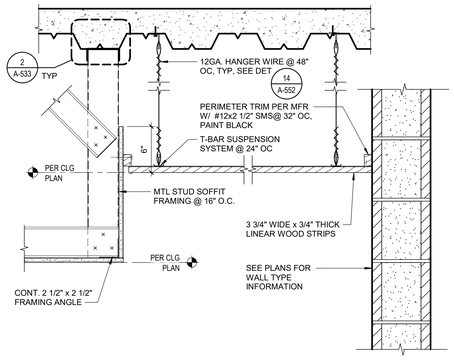
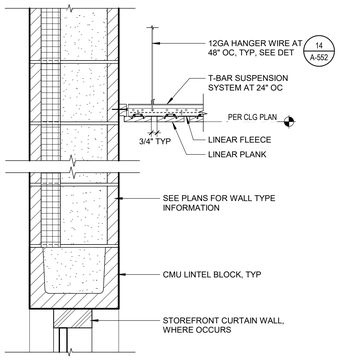


9 SUSPENDED WOOD CEILING

1 1/2" = 1'-0"

SUSPENDED WOOD CEILING -X3
?YYMMDD?. Q1

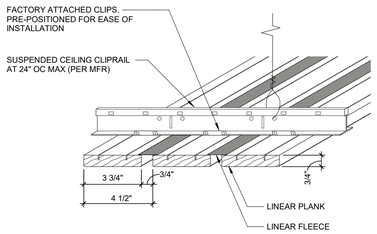


13 SUSPENDED WOOD CEILING - AT LOBBY CMU WALL

1 1/2" = 1'-0"

?DRS TRACKING NUMBER?

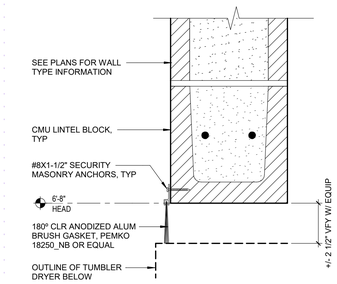
NOTE:
INSTALL 2" ACOUSTIC INSULATION ABOVE THE CEILIING



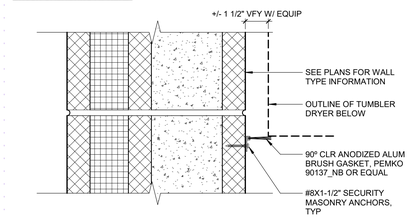
17 SUSPENDED WOOD CEILING - ISOMETRIC

3" = 1'-0"

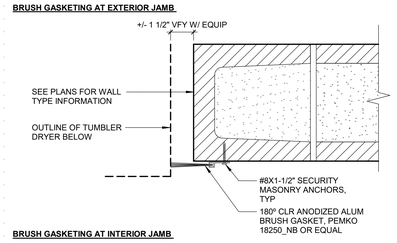
SUSPENDED WOOD CEILING -iISOMETRIC
?YYMMDD?. Q1



BRUSH GASKETING AT HEAD



BRUSH GASKETING AT EXTERIOR JAMB

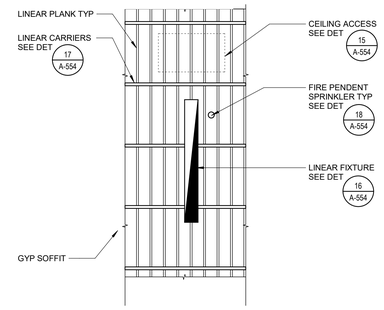


BRUSH GASKETING AT INTERIOR JAMB

11 BRUSH GASKETING AT DRYERS

3" = 1'-0"

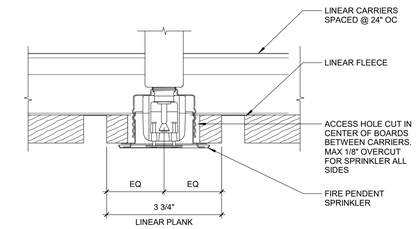
?DRS TRACKING NUMBER?
?YYMMDD?. Q1



14 SUSPENDED WD CEILING - PLAN DETAILS

1/2" = 1'-0"

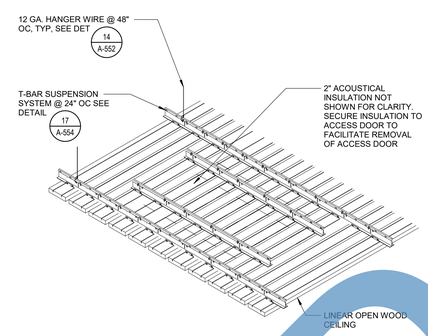
SUSPENDED WOOD CEILING -iPLAN
?YYMMDD?. Q1

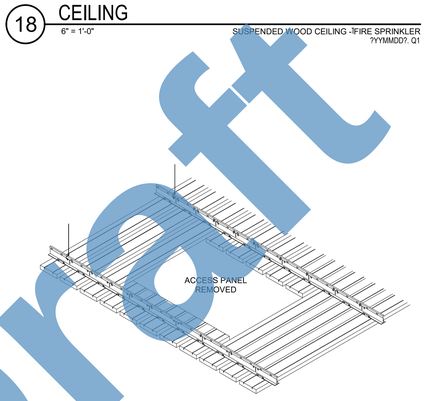


18 FIRE SPRINKLER PENETRATION AT WD CEILING

6" = 1'-0"

SUSPENDED WOOD CEILING -iFIRE SPRINKLER
?YYMMDD?. Q1

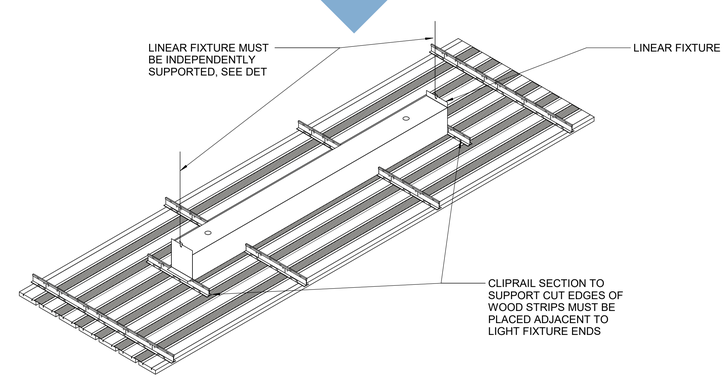




15 SUSPENDED WOOD CEILING - ACCESS PANEL

1" = 1'-0"

?DRS TRACKING NUMBER?
?YYMMDD?. Q1



16 SUSPENDED WOOD CEILING - ISOMETRIC - LINEAR FIXTURE

1" = 1'-0"

?DRS TRACKING NUMBER?
?YYMMDD?. Q1

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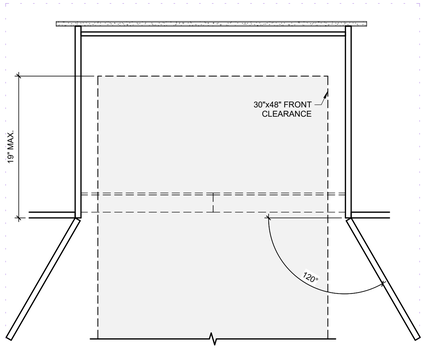
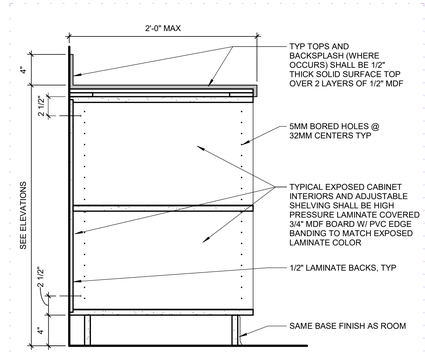
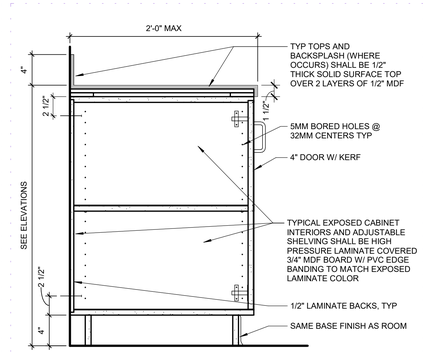


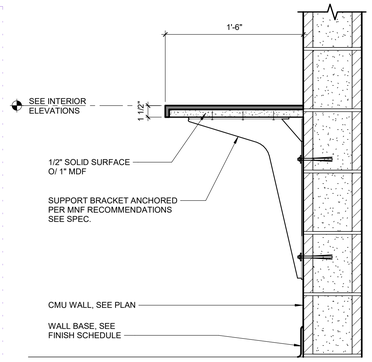
1 BASE CABINET W/ SINK-PLAN
1 1/2" = 1'-0"
Q1



5 CASEWORK WITH OPEN SHELVING
1 1/2" = 1'-0"
I-_064100_007A
161010.Q1



9 CLOSED CABINET
1 1/2" = 1'-0"
I-_064100_007A
161010.Q1



12 WORK COUNTER
1 1/2" = 1'-0"
?DRS TRACKING NUMBER?
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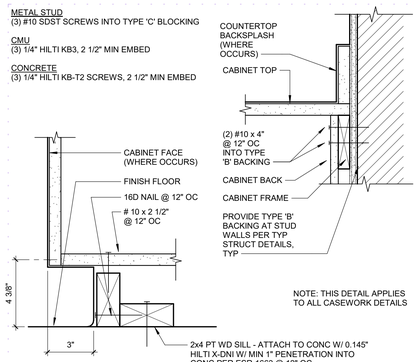
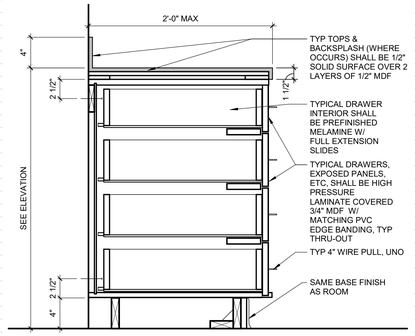
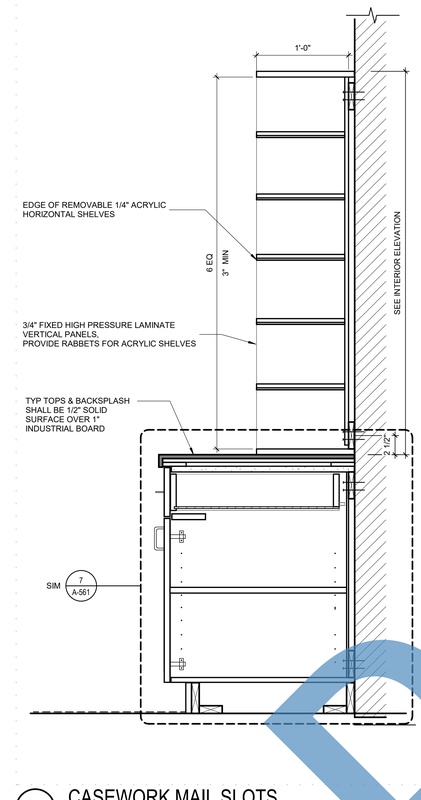


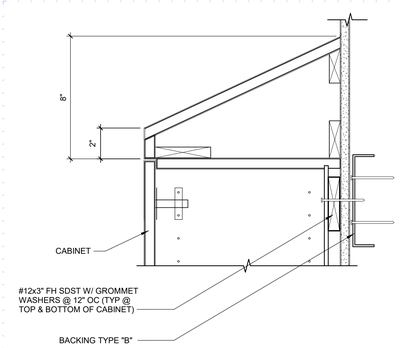
2 TYPICAL CASEWORK ANCHORAGE
3" = 1'-0"
AE_064100_001



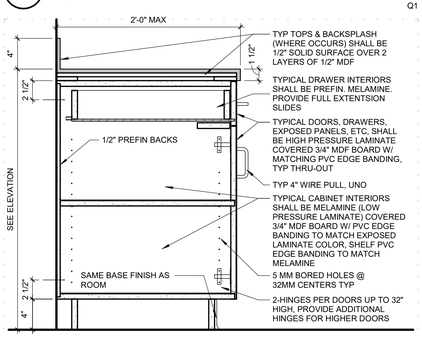
6 BASE CABINET W/ DRAWERS
1 1/2" = 1'-0"
Q1



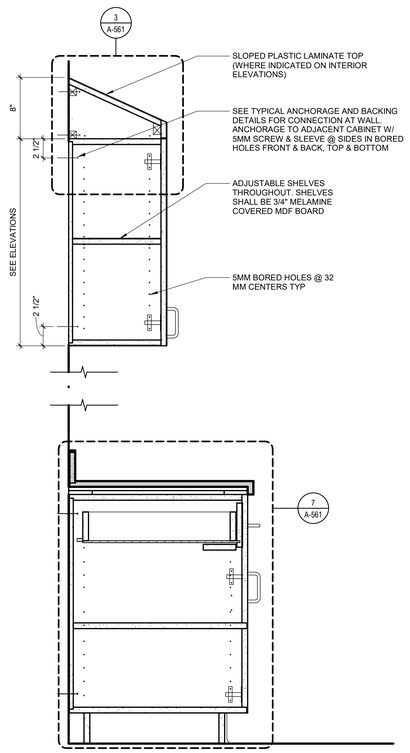
14 CASEWORK MAIL SLOTS
1 1/2" = 1'-0"
ACM_064100_038
140718.Q1



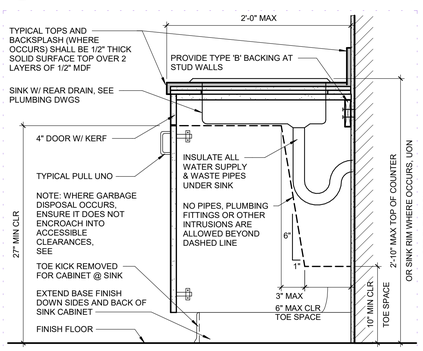
3 UPPER CABINET SLOPED TOP
3" = 1'-0"
Q1



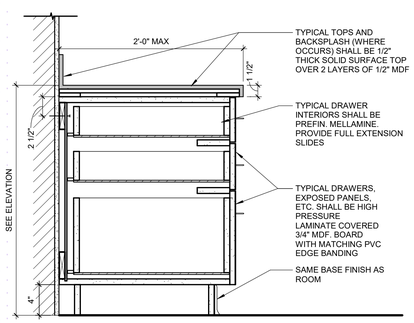
7 BASE CABINET W/ DOORS & DRAWERS
1 1/2" = 1'-0"
Q1



11 TYPICAL CABINET SECTION W/ SLOPED TOP
1 1/2" = 1'-0"
I-_064100_011A
161010.Q1



4 BASE CABINET W/ ADA SINK
1 1/2" = 1'-0"
ACM_064100_010
Q1



8 BASE CABINET AT WORKSTATIONS
1 1/2" = 1'-0"
Q1

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GOVMOTUS No:22-N-3854-CP-DR

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CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
DETAILS - CASEWORK

SHEET
A-561
V1

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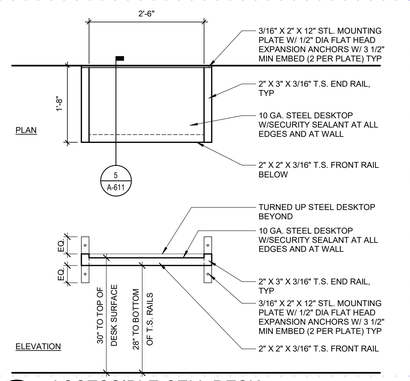
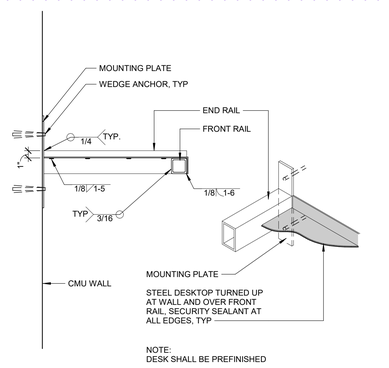


1 ACCESSIBLE CELL DESK

3/4" = 1'-0"

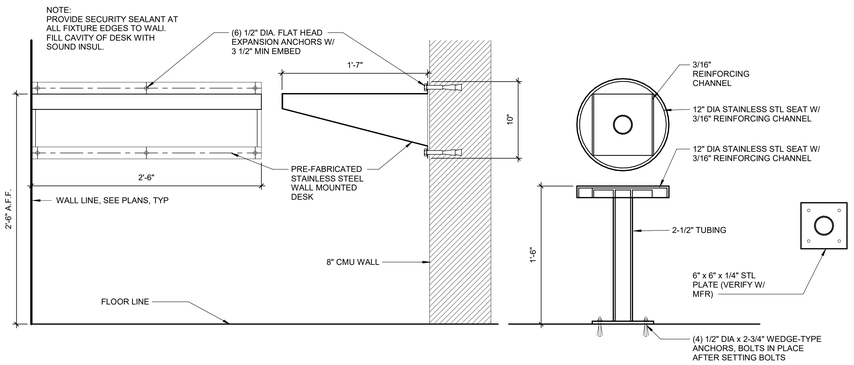
Q1



5 ACCESSIBLE CELL DESK SECTION

1 1/2" = 1'-0"

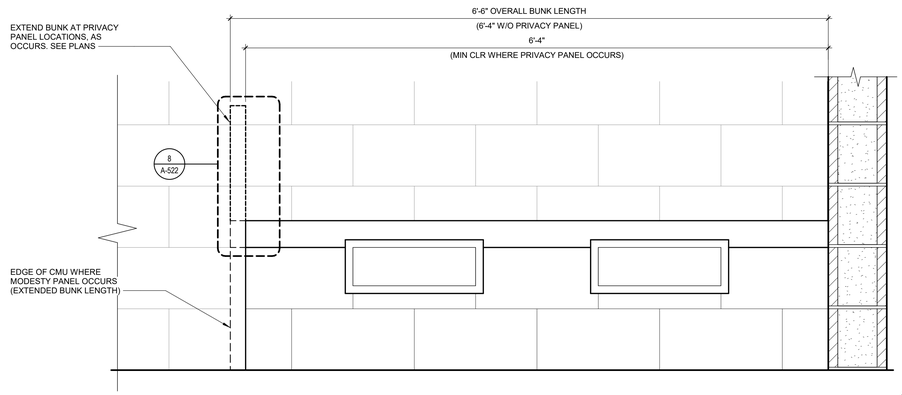
Q1



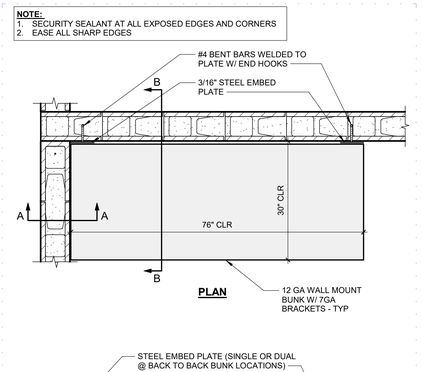
2 TYP DESK AND STOOL DETAIL

1 1/2" = 1'-0"

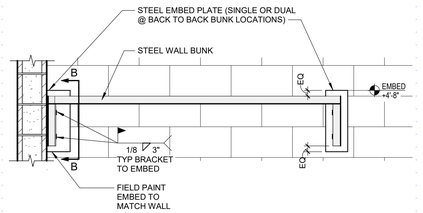
Q1



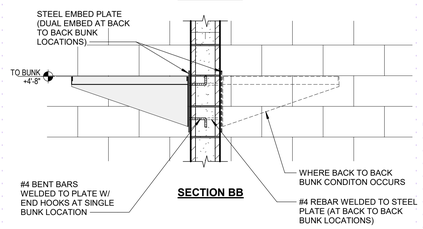
ELEVATION



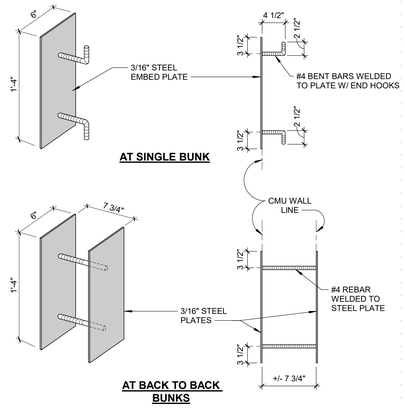
PLAN



SECTION AA



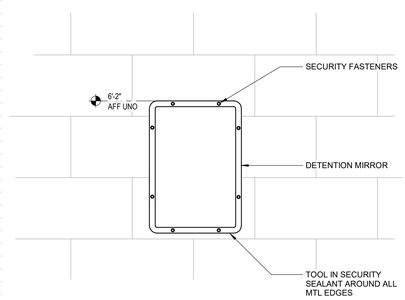
SECTION BB



11 WALL MOUNT BUNK - TYP

3/4" = 1'-0"

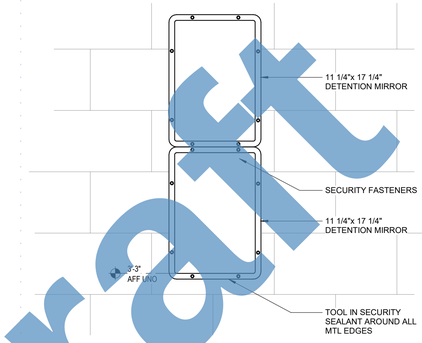
?DRS TRACKING NUMBER?
?YYMMDD?.Q1



15 DETENTION MIRROR

1 1/2" = 1'-0"

Q1

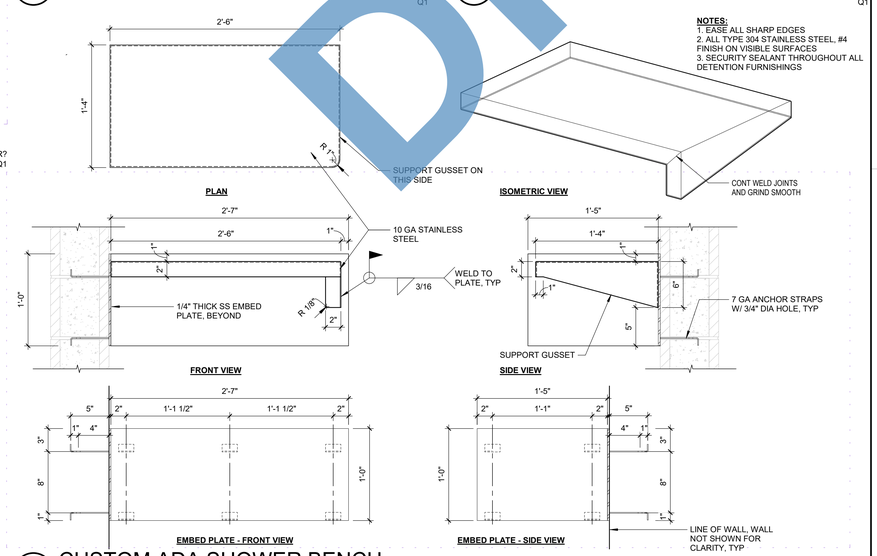


19 DETENTION MIRROR @ ADA UNITS

1 1/2" = 1'-0"

Q1

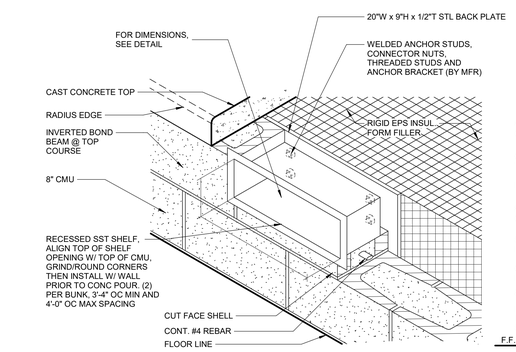
NOTES:
1. EASE ALL SHARP EDGES
2. ALL TYPE 304 STAINLESS STEEL, #4 FINISH ON VISIBLE SURFACES
3. SECURITY SEALANT THROUGHOUT ALL DETENTION FURNISHINGS

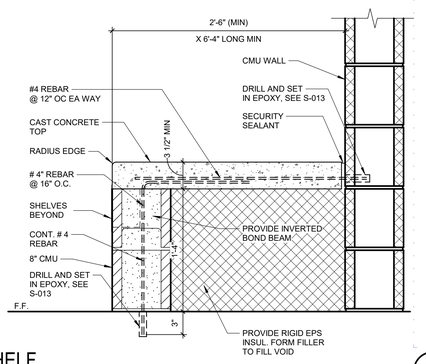


16 CUSTOM ADA SHOWER BENCH

1 1/2" = 1'-0"

Q1

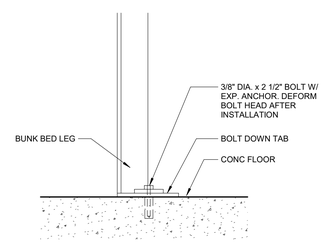




4 TYP SLEEPING ROOM BUNK W/ RECESSED SHELF

1 1/2" = 1'-0"

Q1



12 BUNK BED ANCHORAGE

3" = 1'-0"

160811.Q1

ACCESSORY AND FURNISHINGS SCHEDULE

ITEM	MFR	DESCRIPTION	MODEL	DETAIL
1 - ACCESSORY				
GB24	BOBRICK	GRAB BAR - 24"	B-5806x24	14/GA511
GB36	BOBRICK	GRAB BAR - 36"	B-5806x36	14/GA511
GB42	BOBRICK	GRAB BAR - 42"	B-5806x42	14/GA511
GB48	BOBRICK	GRAB BAR - 48"	B-5806x48	14/GA511
MIR1	BOBRICK	GLASS MIRROR WITH STAINLESS STEEL ANGLE FRAME	B-290 1830	
MOPR	BOBRICK	MOP / BROOM HOLDER 36"	B-223 x 36	
PTD1	BOBRICK	PAPER TOWEL DISPENSER, SURFACE MOUNTED	B-262	
PTD2	BOBRICK	SURFACE MOUNTED COMBINATION TOWEL & WASTE UNIT	B-3699	
SBCH1	SEACHROME	FOLDING SHOWER SEAT	SSB-300150	
SDS	BOBRICK	SOAP DISPENSER, SURFACE MOUNTED	B-2111	
SND1	BOBRICK	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL	B-270	
STH1	BOBRICK	SURFACE-MOUNTED MULTI-ROLL TOILET PAPER DISPENSER	B-4288	
TSC	BOBRICK	SEAT COVER DISPENSER, SURFACE MOUNTED	B-221	
2 - FURNISHINGS				
BNCH	TIFFIN	ADA LOCKER BENCH	BN1000	
BRKT1	LUCASEY	WALL MOUNT TV BRACKET	LC4X4WT	
BRKT2	MOUNTING DREAM	TV WALL MOUNT BRACKET	MD2298	
BRKT3	MOUNT-IT	COUNTERBALANCE FULL MOTION LCD WALL MOUNT	MI-442	
LCKR1	TIFFIN	STAFF WARDROBE LOCKER W/ DRAWER BASE AND SLOPED TOP	SEE SPEC 10 51 13	
LCKR2	TIFFIN	ACCESSIBLE STAFF WARDROBE LOCKER	SEE SPEC 10 51 13	
MKRB	CLARIDGE	8'-0" W x 4'-0" H MARKERBOARD	SERIES 400	17/A-521
MSHF1	METRO	18"x36"x74" FIVE SHELF UNIT	1836HFG	
MSHF2	METRO	18"x48"x74" FIVE SHELF UNIT	1848HFG	
SEATS	ARCONAS	BERNU AERO POLYURETHANE SEATING	BA4S	
TAKB1	CLARIDGE	TACK BOARD, SEE ELEVATION FOR SIZE	SERIES 400	17/A-521
TAKB2	CLARIDGE	TACK BOARD, SEE ELEVATION FOR SIZE	SERIES 400	17/A-521
TAKB3	CLARIDGE	TACK BOARD, SEE ELEVATION FOR SIZE	SERIES 400	17/A-521
WC1	MECHO SHADES	MOTORIZED ROLLER SHADE	ELECTRO SHADE 2	
3 - DETENTION ACCESSORY				
DCH1	NORIX	TOWEL HOOK, FRONT MOUNT	ITS-410	
DCH2	NORIX	SHELF, WM, W/TOWEL HOOKS 18" x 8" x 11" 304SS	S565-529	
DCH3	NORIX	TOWEL HOOK, FRONT MOUNT	ITH-110	
DGB24	NORIX	24" SECURITY GRAB BAR	IGS-24-3	14/GA511
DGB36	NORIX	36" SECURITY GRAB BAR	IGS-36-3	14/GA511
DGB42	Norix	42" SECURITY GRAB BAR	IGS-42-3	14/GA511
DGB48	NORIX	48" SECURITY GRAB BAR	IGS-48-3	14/GA511
DMIR	NORIX	MIRROR, 430SS, 18GA	R565-411	15/A-611
DMIRA	NORIX	MIRROR, 430SS, 18GA	(2) R565-411	19/A-611
DPTD	ARCHER MANUFACTURING	OPS - VANDAL PROOF PAPER TOWEL DISPENSER	1250-01G	
DSD	ARCHER MANUFACTURING	OPS - VANDAL PROOF SOAP DISPENSER	1015-01G	
DTPH1	NORIX	FRONT MOUNT TOILET PAPER HOLDER	ITP-110	
RSHLF	NORIX	SHELF RECESSED, 304SS 18"x7"	S565-550	4/A-611
SBCH2	VIKING	CUSTOM ADA SHOWER BENCH	TBD	16/A-611
4 - DETENTION FURNISHINGS				
DB1	NORIX	DETENTION BENCH, FLOOR MOUNT 72"x18", STEEL TOP 12GA, NO CUFF RINGS	IBF-0721818-12CS-003	
DB2	NORIX	DETENTION BENCH, FLOOR MOUNT, 48"x23", STEEL TOP 12GA, NO CUFF RINGS	IBF-048 SMU	
DBNK1	NORIX	BUNK WALL MOUNT, 76" x 30" x 13"	B525-2FW-0006	11/A-611
DBNK2	NORIX	FLOOR MOUNTED DOUBLE BUNK W/ TWO STORAGE DRAWERS AND NO MID RAIL OR LADDER	B510-282	4/A-611
DDSK1	NORIX	WALL MOUNTED CELL DESK 30" x 19"	D560-408	2/A-611
DDSK2	TBD	ADA WALL MOUNTED CELL DESK	N/A	1/A-611
DSTL1	NORIX	STOOL, FM, 304SS 14GA SEAT 18"T, 6"x6" FOUNDATION PLATE	S561-120	
DTBL	NORIX	MAX-MASTER GAME TOP 4 SEAT TABLE	M44200-MAA0WAB-03 XX-YYYB	
DTBLA	NORIX	MAX MASTER GAME TOP ADA 4 SEAT TABLE	M44200-MAA0WAB-03 XX-YYYAZ	
GNLK1	NORIX	SEMI RECESSED 6 COMPARTMENT PISTOL LOCKER	IPL-600	6/A-522
GNLK2	NORIX	SURFACE MOUNTED 6 COMPARTMENT PISTOL LOCKER	IPL-600	6/A-522
SHCRT	IMPERIAL	SHOWER CURTAIN TRACK & BREAK-AWAY CURTAIN	IFC-69	
SHLDS	TIFFIN METALS	ADJUSTABLE SHIELD/MISC STORAGE SHELVING	TIFFIN	
VCHR	NORIX	VESTA ARMLESS CHAIR	VA610-XXX	
VISIT1	NORIX	INTELESTATION WALL MOUNT VISITATION WITHOUT SEATING (OPEN STYLE CABINET -SS)	SBW7N	
VISIT2	NORIX	INTELESTATION WALL MOUNT VISITATION WITHOUT SEATING (OPEN STYLE CABINET-2 UNIT-SS)	SBW7N/ W/ (1) SBW9N ADD ON	
WPNR	TIFFIN METALS	LOCKABLE WIDE STOCK HOLDER, WIDE LONG GUN HOLDER, W/ SHELVES	TIFFIN	

Draft

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GOVMOTUS No:22-N-3854-CP-DR

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CLIENT
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ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
SCHEDULES & DETAILS - ACCESSORIES, EQUIPMENT

SHEET
A-611

V1

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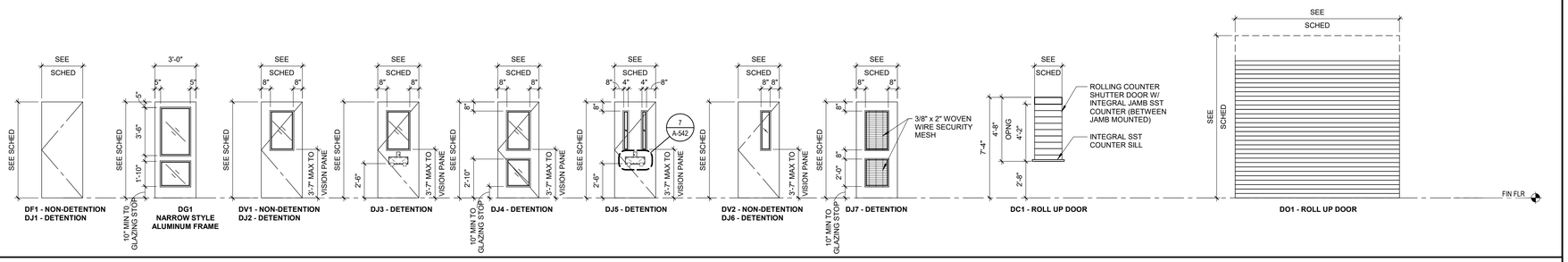
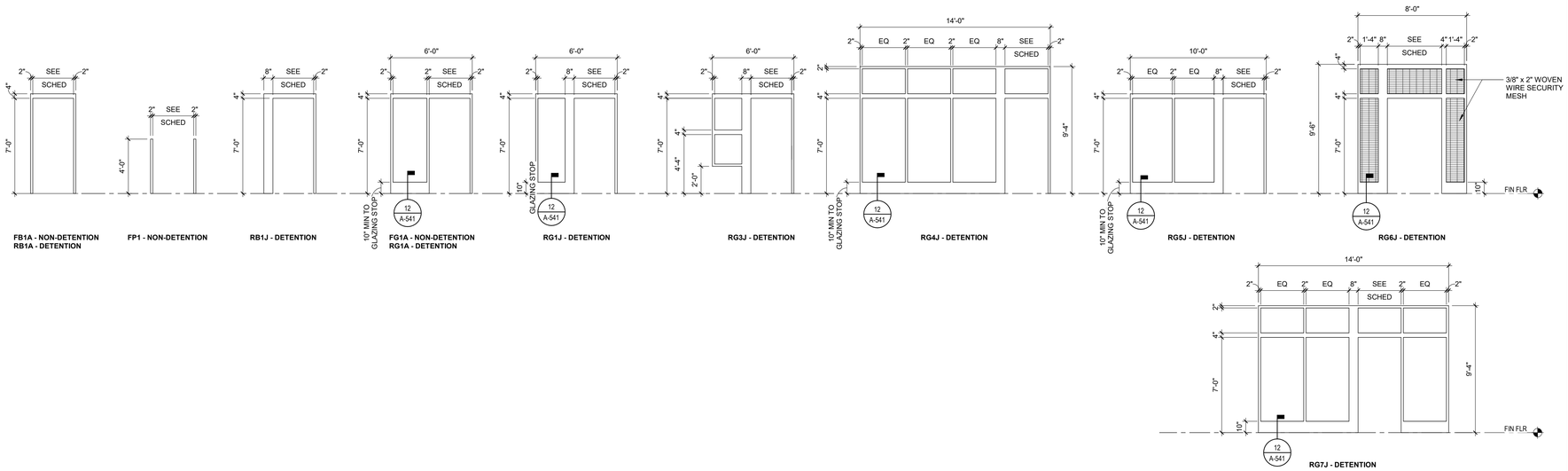
DOOR TYPES (SEE DOOR TYPES SYMBOL KEY ON THIS SHEET)



FRAME TYPES (SEE FRAME TYPES SYMBOL KEY ON THIS SHEET)



DOOR SCHEDULE GENERAL NOTES

1. GENERAL DOOR SHEET NOTES ARE TYPICAL UNLESS NOTED OTHERWISE.
2. FLOORS OR LANDINGS ON EACH SIDE OF EXIT DOORS SHALL NOT EXCEED ½" FROM THE TOP OF THE DOOR THRESHOLD TO THE FLOOR OR LANDING SURFACE ON EITHER SIDE OF THE DOOR ASSEMBLY.
3. EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF TRAVEL.
4. THE FORCE FOR PUSHING OR PULLING OPEN INTERIOR SWINGING EGRESS DOORS, OTHER THAN FIRE DOORS, SHALL NOT EXCEED 5 POUNDS. FOR OTHER SWINGING DOORS, AS WELL AS SLIDING AND FOLDING DOORS, THE DOOR LATCH SHALL RELEASE WHEN SUBJECTED TO A 15 POUND MAXIMUM FORCE
5. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN THE PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP, PINCH OR TWIST THE OPENING HARDWARE
6. THE BOTTOM 10" OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. WHERE NARROW FRAME DOORS ARE USED, A 10" HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
7. RATED DOORS SHALL BE POSITIVE LATCHING AND SELF CLOSING.
8. FIRE RATED DOORS AND GLASS SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY OCCUR.
9. DOOR AND FRAME ASSEMBLY DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION.
10. COORDINATE OVERALL DOOR FRAME DEPTHS WITH WALL TYPES.
11. FOR DOOR HARDWARE GROUPS, SEE PROJECT SPECIFICATIONS.
12. FOR SIGNAGE LOCATIONS, SEE SHEET A-150
13. FOR SIGNAGE ON OR ADJACENT TO DOORS, SEE SHEET GA512.
14. GLASS DOORS, SIDELIGHTS, AND GLAZED OPENINGS WITHIN 18" OF THE FLOOR OR WITHIN 24" HORIZONTALLY OF ANY DOOR OPENING SHALL BE FULLY TEMPERED GLASS APPROVED FOR IMPACT HAZARD.
15. PROVIDE RATED GLASS AT RATED DOORS AND FRAMES WITH LITES. SEE DOOR SCHEDULE AND PROJECT SPECIFICATIONS.
16. COORDINATE THE SIZE AND LOCATION OF RECESSES IN CONCRETE FLOORS FOR RECESSED DOOR HARDWARE.
17. SEE SECURITY DRAWINGS FOR DOORS WITH CARD READERS AND OTHER SECURITY ELECTRONICS; COORDINATE WITH ELECTRICAL.
18. HOLLOW METAL FRAMES IN MASONRY CONSTRUCTION SHALL BE GROUTED FULL.

DOOR LEGEND

(E) = EXISTING
ADO = AUTOMATIC DOOR OPERATOR
ADC = AUTOMATIC DOOR CLOSER
CR = CARD READER
EL = ELECTRIC LOCK
HDW GP = HARDWARE GROUP
HO = HOLD OPEN
PH = PANIC HARDWARE
V = VINYL STRIPS

GLASS LEGEND:
GL = GLASS
LG = LEADED GLASS
RG = RATED GLASS
SG = SPANDREL GLASS
TG = TEMPERED GLASS

GLASS LEGEND NOTES:
1. SEE SPECS FOR GLASS TYPES NOTED

MATERIAL
ALUM = ALUMINUM
DHM = DETENTION HOLLOW METAL
HM = HOLLOW METAL
SST = STAINLESS STEEL
WD = WOOD

FINISH
ANOD = ANODIZED
FRP = FIBER REINFORCED PLASTIC
PLAM = PLASTIC LAMINATE
PT = PAINT
ST = STAIN

DOOR TYPE SYMBOL KEY

DF1A

DOOR TYPE
D = DOOR
S = SLIDER

DOOR CONFIGURATION
F = FLUSH
G = GLASS
V = VISION
L = LOUVER
D = DUTCH
J = DETENTION
S = SLIDER
O = OVERHEAD
C = COUNTER
A = ACCORDION
P = STRIP CURTAIN

CONFIGURATION VERSION
1 = VERSION 1
2 = VERSION 2
ETC.

VERSION VARIATION
A = VARIATION A
B = VARIATION B
ETC.

FRAME TYPE SYMBOL KEY

FB1M

FRAME PROFILE: SEE DET 20 / A-541

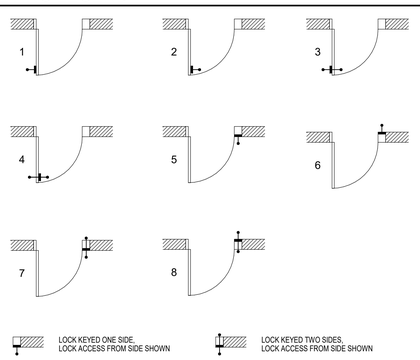
F = DOUBLE RABBET
R = SINGLE RABBET DETENTION
D = NO RABBET DETENTION
E = DOUBLE EGRESS
C = CASED
P = POCKET

FRAME CONFIGURATION
B = BASIC THREE-SIDED
T = TRANSOM
G = GLASS LITE
V = VISION LITE
W = TRANSOM W/ GLASS LITE
X = TRANSOM W/ VISION LITE
J = DETENTION
P = PARTIAL TWO-SIDED
Q = FOUR-SIDED

CONFIGURATION VERSION
1 = VERSION 1
2 = VERSION 2
ETC.

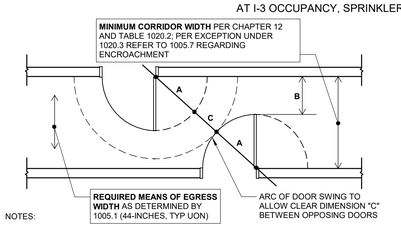
VERSION VARIATION
A = VARIATION A
M = VARIATION W/ MULLION
R = VARIATION W/ REMOVABLE MULLION
ETC.

KEYING LEGEND



TYP MINIMUM DOOR SEPARATION REQUIREMENT

AT I-3 OCCUPANCY, SPRINKLERED



NOTES:

A. SINGLE LEAF DOOR WIDTH VARIES (INCLUDES PAIR DOOR LOCATIONS): "INACTIVE" LEAF 2'-0" WIDE, MIN., "ACTIVE" LEAF OR SINGLE DOORS 3'-0" TO 4'-0" WIDE, MAX.

B. **2022 CBC 407.3.1.1 EXCEPTION**: IN DETENTION AND/OR SECURE MENTAL HEALTH FACILITIES, DOORS MAY SWING INTO REQUIRED WIDTH OF CORRIDORS AS LONG AS 44-INCHES CLEAR IS MAINTAINED WITH ANY ONE DOOR OPEN 90 DEGREES AND CLEAR CORRIDOR WIDTHS REQUIRED IN CHAPTER 12 CAN BE MAINTAINED WITH DOORS OPEN 180 DEGREES.

C. SWING OF DOORS ON OPPOSITE SIDES OF CORRIDORS: **2022 CBC 1005.7 ENCROACHMENT** DEFINES ENCROACHMENT INTO THE *REQUIRED MEANS OF EGRESS WIDTH*. **1005.7.1 DOORS** NOTES: DOORS, WHEN FULLY OPENED, SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 7 INCHES. DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE-HALF (50%). ON THE BASIS OF THIS UNDERSTANDING, A DOOR SWING ENCROACHMENT OF THE **REQUIRED MEANS OF EGRESS WIDTH** (44") SHALL LEAVE 22-INCHES OF CLEARANCE BETWEEN DOOR SWINGS. (i.e. C = 44-INCHES x 50% =22-INCHES, MINIMUM). *NOTE: IF NON-SPINKLERED, C = 50% OF **MINIMUM CORRIDOR WIDTH** WHERE MINIMUM CORRIDOR WIDTH IS 96, 72, 60 OR 44-INCHES.*

GLAZING TYPES

NON SECURITY GLAZING

TYPE	NOMINAL THICKNESS	COMPOSITION
G-1	1"	INSULATED GLAZING 1/4" CLEAR LOW-E TEMPERED GLASS (OUTBOARD LITE) LOW-E COATING #2 SURFACE 1/2" AIR SPACE 1/4" CLEAR TEMPERED GLASS (INBOARD LITE)
G-2	1/2"	CLEAR TEMPERED
G-3	1/4"	CLEAR TEMPERED
G-4	3/4"	FIRE RATED, 45 MIN. - SUPERLITE II-XL 45

SECURITY GLAZING

TYPE	NOMINAL THICKNESS	COMPOSITION
SG-1	1 3/4"	INSULATED GLAZING 1/4" CLEAR LOW-E TEMPERED GLASS (OUTBOARD LITE) LOW-E COATING #2 SURFACE 1/2" AIR SPACE 1" CLEAR HEAT STRENGTHENED GLASS CLAD POLYCARBONATE (INBOARD LITE) ASTM F1915 SECURITY GRADE 1 (60 MINUTE ATTACK) SECURITY GLAZING
SG-2	1 3/4"	INSULATED GLAZING 1/4" CLEAR HEAT STRENGTHENED (OUTBOARD LITE) LOW-E COATING #2 SURFACE 1/2" AIR SPACE 1" CLEAR HEAT STRENGTHENED GLASS CLAD POLYCARBONATE (INBOARD LITE) ASTM F1915 SECURITY GRADE 1 (60 MINUTE ATTACK) WHITE INNER LAYER (OBSCURE) SECURITY GLAZING
SG-3	1"	CLEAR HEAT STRENGTHENED GLASS CLAD POLYCARBONATE ASTM F1915 SECURITY GRADE 1 (60 MINUTE ATTACK) SECURITY GLAZING
SG-4	3/4"	CLEAR HEAT STRENGTHENED GLASS CLAD POLYCARBONATE ASTM F1915 SECURITY GRADE 2 (40 MINUTE ATTACK) SECURITY GLAZING
SG-5	9/16"	CLEAR GLASS CLAD POLYCARBONATE ASTM F1915 SECURITY GRADE 4 (10 MINUTE ATTACK) SECURITY GLAZING

Draft

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

PROJECT
MONO COUNTY NEW JAIL

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BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
DIAGRAMS - DOORS AND FRAMES

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AREA A - DOOR SCHEDULE

DOOR NO	LOCATION	FIRE RATING (MINS)	HDW GP	SECURITY	DOORS TYPE	DOORS WIDTH	LEAF 2 TYPE	LEAF 2 WIDTH	MATL	HEIGHT	FINISH	GL	FRAMES TYPE	MATL	FINISH	GL	HEAD	JAMB	SILL	KEYING ACCESS	COMMENTS
100	LOBBY	0	01	ND	DG1	3'-0"			ALUM	7'-0"	ANOD	G-1	A1	ALUM	ANOD				16/AS101, 15/A-543	-	
101	RESTROOM	0	102	ND	DF1	3'-0"			WD	7'-0"	ST	--	FB1A	HM	PT	--	5/A-541	6/A-541		-	
102	SALLY	0	DH2	D	DJ2	3'-2"			DHM	7'-0"	PT-1	SG-3	RB1J	DHM	PT	--	9/A-541	10/A-541		7	
103A	FAMILY	0	DH2	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG1J	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	7	
103B	FAMILY	20	DH2	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG1J	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	7	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
105	VISIT	20	DH2	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG1J	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	7	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
106	ATTY	0	103	ND	DV2	3'-0"			WD	7'-0"	ST	G-2	FB1A	HM	PT	--	9/A-541	10/A-541		1	
107	ATTY	20	DH2	D	DJ2	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		7	SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
108	ADMIN	0	101	ND	DV1	3'-0"			WD	7'-0"	ST	G-3	FB1A	HM	PT	--	9/A-541	10/A-541		1	
109A	SALLY	0	DH2	D	DJ2	3'-2"			DHM	7'-0"	PT	SG-3	RB1J	DHM	PT	--	9/A-541	10/A-541		7	
109B	SALLY	20	DH2	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG1J	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	7	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
110	CONFERENCE	0	104	ND	DV1	3'-0"			WD	7'-0"	ST	G-3	FG1A	HM	PT	G-3	5/A-541	6/A-541	12/A-541	2	
111	STORAGE	0	104	ND	DF1	3'-0"			WD	7'-0"	ST	--	FB1A	HM	PT	--	5/A-541	6/A-541		2	
112	LT OFFICE	0	105	ND	DV1	3'-0"			WD	7'-0"	ST	G-3	FG1A	HM	PT	G-3	5/A-541	6/A-541	12/A-541	2	
114	SGT OFFICE	0	105	ND	DV1	3'-0"			WD	7'-0"	ST	G-3	FG1A	HM	PT	G-3	5/A-541	6/A-541	12/A-541	2	
115	STAFF TL	0	102	ND	DF1	3'-0"			WD	7'-0"	ST	--	FB1A	HM	PT	--	5/A-541	6/A-541		-	
116	JANITOR	0	104	ND	DF1	3'-0"			WD	7'-0"	ST	--	FB1A	HM	PT	--	5/A-541	6/A-541		2	
117	TRAINING	0	104	ND	DV1	3'-0"			WD	7'-0"	ST	G-3	FG1A	HM	PT	G-3	5/A-541	6/A-541	12/A-541	1	
118	CHANGING	0	102.1	ND	DF1	3'-0"			WD	7'-0"	ST	--	FB1A	HM	PT	--	5/A-541	6/A-541		-	
119	MDF	0	108	ND	DF1	3'-2"			WD	7'-0"	ST	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
120	LOCKERS	0	106	ND	DF1	3'-2"			WD	7'-0"	ST	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
121	BREAK	0	DH6	D	DJ6	3'-0"			DHM	7'-0"	PT-2	SG-1	RB1A	DHM	PT-1	--	9/A-541	10/A-541		3	
122	ADMIN CORRIDOR	0	107	ND	DF1	3'-2"			WD	7'-0"	ST	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
123	ADMIN CORRIDOR	0	02	ND	DF1	3'-0"			HM	7'-0"	PT-2	--	FB1A	HM	PT-1	--	9/A-541	10/A-541		1	

AREA B - DOOR SCHEDULE

DOOR NO	LOCATION	FIRE RATING (MINS)	HDW GP	SECURITY	DOORS TYPE	DOORS WIDTH	LEAF 2 TYPE	LEAF 2 WIDTH	MATL	HEIGHT	FINISH	GL	FRAMES TYPE	MATL	FINISH	GL	HEAD	JAMB	SILL	KEYING ACCESS	COMMENTS
200A	SALLY	0	DH1	D	DJ1	3'-2"			DHM	7'-0"	PT-2	--	RB1J	DHM	PT-1	--	9/A-541	10/A-541	12/A-542	7	
200B	VEHICLE SALLY	90	DH1	D	DJ1	3'-2"			DHM	7'-0"	PT	--	RB1J	DHM	PT	--	9/A-541	10/A-541		7	
200C	SALLY	0	DH2	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG1J	DHM	PT	--	9/A-541	10/A-541	12/A-541	7	
201A	SALLY	20	DH2	D	DJ2	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		7	SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
201B	VEHICLE SALLY	90	DH1	D	DJ1	3'-2"			DHM	7'-0"	PT	--	RB1J	DHM	PT	--	9/A-541	10/A-541		7	
202	RELEASE	20	DH13	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RB1A	DHM	PT	--	9/A-541	10/A-541		3	
203A	PROPERTY	0	110	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		2	
203B	RELEASE	0	124	ND	DC1	2'-0"			SST	4'-2"	SST	--								-	
204	JANITOR	20	113	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
205	STAFF TL	20	125	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
206	BOOKING	0	112	ND	DF1	3'-0"			HM	4'-0"	PT	--	FP1	HM	PT	--				2	
207	SEARCH	0	DH14	D	DJ3	3'-0"			DHM	7'-0"	PT	SG-4	RG1A	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	3	
208	PROCESS	20	DH2	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG1J	DHM	PT	--	9/A-541	10/A-541	12/A-541	7	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
209	HOLD	45	DH15	D	DJ3	3'-0"			DHM	7'-0"	PT	SG-4	RG1A	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	3	SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
210	CHASE	0	04	ND	DF1	1'-8"			HM	7'-0"	PT-2	--	FB1A	HM	PT-1	--	5/A-541	6/A-541		1	
211	ADA SOBER HOLD	45	DH15	D	DJ3	3'-0"			DHM	7'-0"	PT	SG-4	RG1A	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	3	SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
212	SOBER HOLD	45	DH15	D	DJ3	3'-0"			DHM	7'-0"	PT	SG-4	RG1A	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	3	SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
213	HOLD	45	DH15	D	DJ3	3'-0"			DHM	7'-0"	PT	SG-4	RG1A	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	3	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
214	CHASE	45	114	ND	DF1	1'-8"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
215	CHASE	20	114	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
217A	ANTE	20	115	ND	DV2	3'-0"			HM	7'-0"	PT	G-4	FB1A	HM	PT	--	5/A-541	6/A-541		1	
217B	ANTE	0	DH9	D	DJ2	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		7	
218	ISOLATION	20	DH9	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG1J	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	5	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
219	CHASE	20	114	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
221	SALLY	0	DH2	D	DJ2	3'-2"			DHM	7'-0"	PT	SG-3	RB1J	DHM	PT	--	9/A-541	10/A-541		7	
222	STAFF TL	0	126	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		-	
223	CENTRAL CONTROL	0	DH2	D	DJ2	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		7	
225	PROGRAM	20	DH10	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG5J	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	7	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
226A	PROGRAM	0	123	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		2	
226B	PROGRAM	20	DH10	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG5J	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	7	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
227A	10 BED DORM	0	DH4	D	DJ1	3'-2"			DHM	7'-0"	PT-2	--	RB1J	DHM	PT-1	--	9/A-541	10/A-541	12/A-542	7	
227B	10 BED DORM	20	DH10	D	DJ4	3'-2"			DHM	7'-0"	PT	SG-4	RG7J	DHM	PT-1	SG-4	9/A-541	10/A-541		5	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
228	CHASE	0	04	ND	DF1	3'-0"			HM	7'-0"	PT-2	--	FB1A	HM	PT-1	--	5/A-541	6/A-541	12/A-542	1	
231	JANITOR	0	116	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
232	MEDS/ EQUIP	0	109	ND	DV2	3'-0"			HM	7'-0"	PT	G-2	FB1A	HM	PT	--	5/A-541	6/A-541		2	
233	RECORDS	0	113	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
234	STORAGE/ CERT	0	109	ND	DF1	3'-0"			HM	7'-0"	PT	G-2	FB1A	HM	PT	--	5/A-541	6/A-541		2	
235	INTERVIEW	20	DH16	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG1A	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	3	45 MINUTE SIDELIGHT
236	HALLWAY	20	111	ND	DV2	3'-0"			HM	7'-0"	PT	G-4	FB1A	HM	PT	--	5/A-541	6/A-541		1	
237	EXAM	20	113	ND	DV2	3'-0"			HM	7'-0"	PT	G-4	FB1A	HM	PT	--	5/A-541	6/A-541		1	
238A	VEHICLE SALLY	0	DH3	D	DJ1	3'-2"			DHM	7'-0"	PT-2	--	RB1J	DHM	PT-1	--	9/A-541	10/A-541	12/A-542	7	
238B	VEHICLE SALLY	0	08	ND	DO1	14'-0"			SST	12'-0"	GALV	--								-	
238C	VEHICLE SALLY	0	08	ND	DO1	14'-0"			SST	12'-0"	GALV	--								-	
238D	VEHICLE SALLY	0	DH3	D	DJ1	3'-2"			DHM	7'-0"	PT-2	--	RB1J	DHM	PT-1	--	9/A-541	10/A-541	12/A-542	7	

AREA C - DOOR SCHEDULE

DOOR NO	LOCATION	FIRE RATING (MINS)	HDW GP	SECURITY	DOORS TYPE	DOORS WIDTH	LEAF 2 TYPE	LEAF 2 WIDTH	MATL	HEIGHT	FINISH	GL	FRAMES TYPE	MATL	FINISH	GL	HEAD	JAMB	SILL	KEYING ACCESS	COMMENTS
301	CORRIDOR	0	DH2	D	DJ7	4'-0"			DHM	7'-0"	--	--	RG6J	DHM	PT	--	16/A-542	10/A-541		7	
302	AD-SEG	20	DH10	D	DJ2	3'-0"			DHM	7'-0"	PT	SG-4	RG1J	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	5	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
303	SINGLE	0	DH11	D	DJ3	3'-0"			DHM	7'-0"	PT	SG-4	RG3J	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	5	
304	ADA SINGLE	0	DH11	D	DJ3	3'-0"			DHM	7'-0"	PT	SG-4	RG3J	DHM	PT	SG-4	9/A-541	10/A-541	12/A-541	5	
306	SAFETY	45	DH12	D	DJ5	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
308	4 BED DORM	20	DH10	D	DJ2	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
310	CHASE	20	114	ND	DF1	2'-4"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
311	LAUNDRY	45	121	ND	DV1	3'-8"			HM	7'-0"	PT	G-4	FB1A	HM	PT	--	5/A-541	6/A-541		1	
312A	MECH	0	03	ND	DF1	2'-10"	DF1	2'-10"	HM	7'-0"	PT-2	--	FB1A	HM	PT-1	--	5/A-541	6/A-541	12/A-542	1	
312B	MECH	0	122	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		2	
313A	SALLY	0	DH2	D	DJ6	3'-10"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		7	
313B	SALLY	0	DH1	D	DJ6	3'-10"			DHM	7'-0"	PT-2	SG-1	RB1J	DHM	PT-1	--	9/A-541	10/A-541	12/A-542	7	
314A	KITCHEN	45	DH10	D	DJ2	3'-10"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		7	
314B	KITCHEN	0	DH1	D	DJ2	3'-10"			DHM	7'-0"	PT-2	SG-3	RB1J	DHM	PT-1	--	9/A-541	10/A-541	12/A-542	7	
315	OFFICE/SECURITY STORAGE	0	119	ND	DV1	3'-0"			HM	7'-0"	PT	G-2	FG1A	HM	PT	G-2	5/A-541	6/A-541	12/A-541	2	
316	STAFF TL	0	117	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
317	INMATE TL	0	118	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
318A	ELECT	0	06	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541	12/A-542	2	CERTIFY WITH OWNER PRIOR TO INSTALLATION OF HEAD AND SILL DRIP EDGE/THRESHOLD
318B	ELECT	0	05	ND	DF1	3'-0"			HM	7'-0"	PT-2	--	FB1A	HM	PT-1	--	5/A-541	6/A-541	12/A-542	1	
319	ATS	0	07	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541	12/A-542	1	CERTIFY WITH OWNER PRIOR TO INSTALLATION OF HEAD AND SILL DRIP EDGE/THRESHOLD
320	JANITOR	0	116	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
323	CHASE	45	114	ND	DF1	2'-4"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
324	DRY STORAGE	0	120	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
325	JANITOR	20	113	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
326	LOW VOLT	20	111.1	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
327	SEC ELEC	20	DH13	D	DJ1	3'-0"			DHM	7'-0"	PT	--	RB1A	DHM	PT	--	9/A-541	10/A-541		3	
328A	10 BED DORM	20	DH10	D	DJ4	3'-2"			DHM	7'-0"	PT	SG-4	RG7J	DHM	PT-1	SG-4	9/A-541	10/A-541	12/A-541	5	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
328B	10 BED DORM	0	DH4	D	DJ1	3'-2"			DHM	7'-0"	PT	--	RB1J	DHM	PT	--	9/A-541	10/A-541	12/A-542	7	CERTIFY WITH OWNER PRIOR TO INSTALLATION OF HEAD AND SILL DRIP EDGE/THRESHOLD
329A	OUTDOOR REC	0	DH4	D	DJ2	3'-2"			DHM	7'-0"	PT	SG-3	RG4J	DHM	PT-1	SG-3	9/A-541	10/A-541	12/A-541, 12/A-542	7	CERTIFY WITH OWNER PRIOR TO INSTALLATION OF HEAD AND SILL DRIP EDGE/THRESHOLD
329B	OUTDOOR REC	0	DH5	D	DJ1	3'-2"			DHM	7'-0"	PT-2	--	RB1J	DHM	PT-1	--	9/A-541	10/A-541	12/A-542	7	CERTIFY WITH OWNER PRIOR TO INSTALLATION OF HEAD AND SILL DRIP EDGE/THRESHOLD

AREA D - DOOR SCHEDULE

DOOR NO	LOCATION	FIRE RATING (MINS)	HDW GP	SECURITY	DOORS TYPE	DOORS WIDTH	LEAF 2 TYPE	LEAF 2 WIDTH	MATL	HEIGHT	FINISH	GL	FRAMES TYPE	MATL	FINISH	GL	HEAD	JAMB	SILL	KEYING ACCESS	COMMENTS
400A	DAY ROOM	20	DH10	D	DJ4	3'-2"			DHM	7'-0"	PT	SG-4	RG4J	DHM	PT-1	SG-4	9/A-541	10/A-541	12/A-541	7	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
400B	DAY ROOM	0	DH4	D	DJ1	3'-2"			DHM	7'-0"	PT	--	RB1J	DHM	PT	--	9/A-541	10/A-541	12/A-542	7	CERTIFY WITH OWNER PRIOR TO INSTALLATION OF HEAD AND SILL DRIP EDGE/THRESHOLD
401	JANITOR	0	116	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
402	ADA SGL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
403	CHASE	0	114	ND	DF1	2'-4"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
404	DBL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
405	DBL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
406	CHASE	0	114	ND	DF1	2'-4"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
407	DBL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
408A	SALLY	20	DH2	D	DJ6	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		7	SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
408B	SALLY	0	DH1	D	DJ1	3'-2"			DHM	7'-0"	PT-2	--	RB1J	DHM	PT-1	--	9/A-541	10/A-541	12/A-542	7	
409	MAINTENANCE	0	03	ND	DF1	2'-10"	DF1	2'-10"	HM	7'-0"	PT-2	--	FB1A	HM	PT-1	--	5/A-541	6/A-541	12/A-542	1	
410	DBL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
411	CHASE	0	114	ND	DF1	2'-4"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
412	DBL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
415	CHASE	0	04	ND	DF1	3'-0"			HM	7'-0"	PT-2	--	FB1A	HM	PT-1	--	5/A-541	6/A-541	12/A-542	1	
416	DBL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
417	CHASE	0	114	ND	DF1	2'-4"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
418	DBL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
419	MECH	0	03	ND	DF1	2'-10"	DF1	2'-10"	HM	7'-0"	PT-2	--	FB1A	HM	PT-1	--	5/A-541	6/A-541	12/A-542	1	
420A	SALLY	20	DH2	D	DJ6	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		7	SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.
420B	SALLY	0	DH1	D	DJ1	3'-2"			DHM	7'-0"	PT-2	--	RB1J	DHM	PT-1	--	9/A-541	10/A-541	12/A-542	7	
421	DBL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
422	CHASE	0	114	ND	DF1	2'-4"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
423	DBL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
424	DBL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
425	CHASE	0	114	ND	DF1	2'-4"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
426	ADA SGL CELL	0	DH11	D	DJ3	3'-2"			DHM	7'-0"	PT	SG-4	RB1J	DHM	PT	--	9/A-541	10/A-541		5	
427	JANITOR	0	116	ND	DF1	3'-0"			HM	7'-0"	PT	--	FB1A	HM	PT	--	5/A-541	6/A-541		1	
428	DAY ROOM	20	DH10	D	DJ4	3'-2"			DHM	7'-0"	PT	SG-4	RG4J	DHM	PT-1	SG-4	9/A-541	10/A-541	12/A-541	7	45 MINUTE SIDELIGHT. SECURITY GLAZING INSTEAD OF FIRE RATED GLAZING PER CBC SEC 408.13 ITEM 2.

DOOR SCHEDULES GENERAL NOTES

1. REFER TO SHEET A-621 FOR DOOR & FRAME TYPES, GENERAL NOTES.
2. ELECTRONICALLY CONTROLLED OR OTHER POWERED EXIT DOORS FROM CELLS AND HOLDING ROOMS SHALL BE CAPABLE OF REMOTE RELEASE FROM THE FACILITY CONTROL CENTER.
3. LEFT AND RIGHT JAMBS FOR ALL DETENTION FRAMES ARE VIEWED FROM THE PULL SIDE OF THE DOOR.
4. FOR DOOR AND FRAME PAINT FINISHES SEE FINISH SCHEDULE I-641.

DOOR SCHEDULE TITLES

SECURITY	INDICATES DETENTION STATUS WHERE: "D"=DETENTION & "ND"=NON-DETENTION
GL (GLAZING)	INDICATES TYPE OF GLAZING TO BE INSTALLED IN DOORS OR FRAMES. REFER TO SPEC SECTION 08 81 00 FOR GLAZING AND 08 88 53 FOR SECURITY GLAZING
HDW GP	INDICATES HARDWARE GROUP TO BE USED AS NOTED AND CALLED OUT IN SPECIFICATIONS. "H" INDICATES BUILDERS HARDWARE SECTION 08710 & "DH" INDICATES DETENTION HARDWARE SECTION 11192.
KEYING ACCESS	INDICATES LOCATION OF HARDWARE KEYING OF LOCK & KEYED SIDE OF DOOR OR FRAME. SEE KEYING ACCESS LOCATION LEGEND.
SIGNAGE	INDICATES APPLIED GRAPHICS ON DOOR AS LISTED IN COLUMN. SEE TYPICAL DOOR GRAPHIC LAYOUT ON SHEET A-621.

ABBREVIATIONS IN SCHEDULE

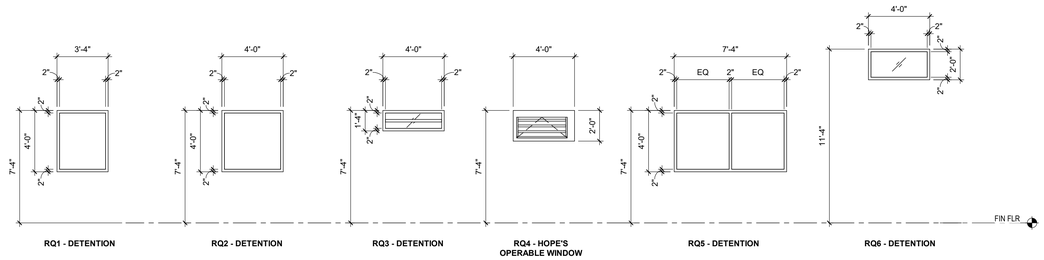
D = DETENTION
ND = NON DETENTION
ADO = AUTOMATIC DOOR OPERATOR
ADC = AUTOMATIC DOOR CLOSER
CR = CARD READER
EL = ELECTRIC LOCK
HDW GP = HARDWARE GROUP
HO = HOLD OPEN
PH = PANIC HARDWARE
V = VINYL STRIPS

MATERIAL
ALUM = ALUMINUM
DHM = DETENTION HOLLOW METAL
HM = HOLLOW METAL
SST = STAINLESS STEEL
WD = WOOD

GLASS LEGEND:
GL = GLASS
LG = LEADED GLASS
RG = RATED GLASS
SG = SPANDREL GLASS

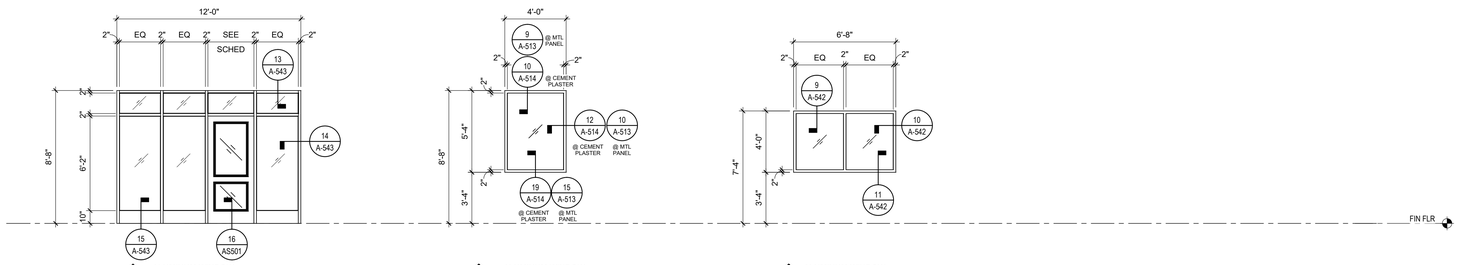
FINISH
ANOD = ANODIZED
FRP = FIBER REINFORCED PLASTIC
PLAM = PLASTIC LAMINATE
Px = PAINT (x RE

HOLLOW METAL WINDOW FRAME TYPES



RQ1 - DETENTION | RQ2 - DETENTION | RQ3 - DETENTION | RQ4 - HOPE'S OPERABLE WINDOW | RQ5 - DETENTION | RQ6 - DETENTION

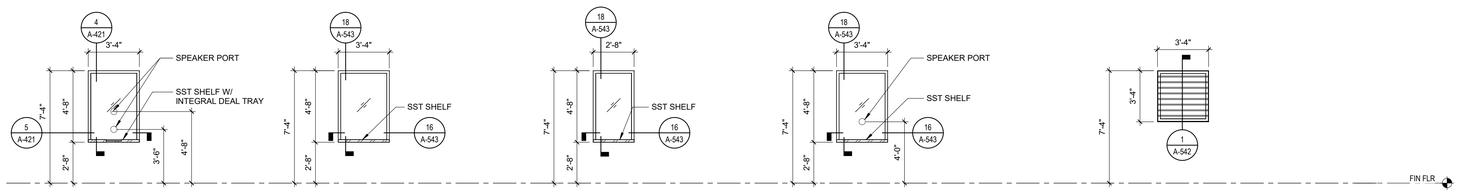
ALUMINUM FRAME TYPES



A1 ALUMINUM WINDOW G-1 GLAZING

A2 ALUMINUM WINDOW G-1 GLAZING

A3 ALUMINUM WINDOW G-1 GLAZING



A5 PRE MANUFACTURED SECURITY TRANSACTION WINDOW WITH LEVEL 2 GLAZING

A6 PRE MANUFACTURED SECURITY TRANSACTION WINDOW WITH LEVEL 2 GLAZING

A7 PRE MANUFACTURED SECURITY TRANSACTION WINDOW WITH LEVEL 2 GLAZING

A8 PRE MANUFACTURED SECURITY TRANSACTION WINDOW WITH LEVEL 2 GLAZING

L1 LOUVER

WINDOW SCHEDULE GENERAL NOTES

1. GENERAL WINDOW SHEET NOTES ARE TYPICAL UNLESS NOTED OTHERWISE.
2. SEE FLOOR PLANS A-110 SERIES FOR ALUMINUM STOREFRONT AND CURTAIN WALL LOCATIONS.
3. SEE FLOOR PLANS A-110 SERIES AND WINDOW SCHEDULES A-630 SERIES FOR ALUMINUM WINDOW LOCATIONS.
4. FIRE RATED WINDOWS AND GLASS SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY OCCUR.
5. ASSEMBLY DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION.
6. COORDINATE OVERALL WINDOW FRAME DEPTHS WITH WALL TYPES.
7. GLAZED OPENINGS WITHIN 18" OF THE FLOOR OR WITHIN 24" HORIZONTALLY OF ANY DOOR OPENING SHALL BE FULLY TEMPERED GLASS APPROVED FOR IMPACT HAZARD.
8. HOLLOW METAL FRAMES IN MASONRY CONSTRUCTION SHALL BE GROUTED FULL.
9. ORDER OF WINDOW SCHEDULE REFLECTS THE ORDER OF THE FLOOR PLANS - NOT ALPHANUMERIC.
10. SEE SPEC SECTION 08 81 00 FOR GLAZING AND 08 88 53 FOR SECURITY GLAZING.
11. REFER TO GENERAL NOTE #19 ON SHEET A-621 FOR SAFETY SIDE TO INSTALL GLAZING STOP.

WINDOW LEGEND

D = DETENTION
ND = NON DETENTION
ADO = AUTOMATIC DOOR OPERATOR
ADC = AUTOMATIC DOOR CLOSER
CR = CARD READER
EL = ELECTRIC LOCK
HDW GP = HARDWARE GROUP
HO = HOLD OPEN
PH = PANIC HARDWARE
V = VINYL STRIPS

MATERIAL
ALUM = ALUMINUM
DHM = DETENTION HOLLOW METAL
HM = HOLLOW METAL
SST = STAINLESS STEEL
WD = WOOD

GLASS LEGEND:
GL = GLASS
LG = LEADED GLASS
RG = RATED GLASS
SG = SPANDREL GLASS

FINISH
ANOD = ANODIZED
FRP = FIBER REINFORCED PLASTIC
PLAM = PLASTIC LAMINATE
Px = PAINT (x REFERS TO COLOR)
ST = STAIN

GLASS LEGEND NOTES:
1. SEE SPECS FOR GLASS TYPS NOTED

NON SECURITY GLAZING

TYPE	NOMINAL THICKNESS	COMPOSITION
G-1	1"	INSULATED GLAZING 1/4" CLEAR LOW-E TEMPERED GLASS (OUTBOARD LITE) LOW-E COATING #2 SURFACE 1/2" AIR SPACE 1/4" CLEAR TEMPERED GLASS (INBOARD LITE)
G-2	1/2"	CLEAR TEMPERED
G-3	1/4"	CLEAR TEMPERED
G-4	3/4"	FIRE RATED, 45 MIN. - SUPERLITE II-XL 45

SECURITY GLAZING

TYPE	NOMINAL THICKNESS	COMPOSITION
SG-1	1 3/4"	INSULATED GLAZING 1/4" CLEAR LOW-E TEMPERED GLASS (OUTBOARD LITE) LOW-E COATING #2 SURFACE 1/2" AIR SPACE 1" CLEAR HEAT STRENGTHENED GLASS CLAD POLYCARBONATE (INBOARD LITE) ASTM F1915 SECURITY GRADE 1 (60 MINUTE ATTACK) SECURITY GLAZING
SG-2	1 3/4"	INSULATED GLAZING 1/4" CLEAR HEAT STRENGTHENED (OUTBOARD LITE) LOW-E COATING #2 SURFACE 1/2" AIR SPACE 1" CLEAR HEAT STRENGTHENED GLASS CLAD POLYCARBONATE (INBOARD LITE) ASTM F1915 SECURITY GRADE 1 (60 MINUTE ATTACK) WHITE INNER LAYER (OBSCURE) SECURITY GLAZING
SG-3	1"	CLEAR HEAT STRENGTHENED GLASS CLAD POLYCARBONATE ASTM F1915 SECURITY GRADE 1 (60 MINUTE ATTACK) SECURITY GLAZING
SG-4	3/4"	CLEAR HEAT STRENGTHENED GLASS CLAD POLYCARBONATE ASTM F1915 SECURITY GRADE 2 (40 MINUTE ATTACK) SECURITY GLAZING
SG-5	9/16"	CLEAR GLASS CLAD POLYCARBONATE ASTM F1915 SECURITY GRADE 4 (10 MINUTE ATTACK) SECURITY GLAZING

FRAME TYPE SYMBOL KEY

FB1M

FRAME PROFILE: SEE DET 20 / A-541
F = DOUBLE RABBET
R = SINGLE RABBET DETENTION
D = NO RABBET DETENTION
E = DOUBLE EGRESS
C = CASED
P = POCKET

FRAME CONFIGURATION
B = BASIC THREE-SIDED
T = TRANSOM
G = GLASS LITE
V = VISION LITE
W = TRANSOM W/ GLASS LITE
X = TRANSOM W/ VISION LITE
J = DETENTION
P = PARTIAL TWO-SIDED
Q = FOUR-SIDED

CONFIGURATION VERSION
1 = VERSION 1
2 = VERSION 2
ETC.

VERSION VARIATION
A = VARIATION A
M = VARIATION W/ MULLION
R = VARIATION W/ REMOVABLE MULLION
ETC.

Draft

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

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MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
DIAGRAMS - WINDOW FRAMES

SHEET
A-631
V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
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WINDOW SCHEDULE

MARK	TYPE	Security Level	SIZE WIDTH	SIZE HEIGHT	MATL	FIN	GL	FIRE RATING (MINS)	DETAIL HEAD	DETAIL JAMB	DETAIL SILL	COMMENTS
LEVEL 1												
218A	RQ4	D	4'-0"	2'-0"	STEEL	PT	SG-2		3/A-542	4/A-542	3/A-542	OPERABLE WINDOW BY HOPES, SEE SPECS
223A	RQ1	D	3'-4"	4'-0"	DHM	PT	SG-3		9/A-541	10/A-541	11/A-541	
223B	RQ5	D	7'-4"	4'-0"	DHM	PT	SG-3		9/A-541	10/A-541	11/A-541	
223C	RQ5	D	7'-4"	4'-0"	DHM	PT	SG-3		9/A-541	10/A-541	11/A-541	
223D	RQ1	D	3'-4"	4'-0"	DHM	PT	SG-3		9/A-541	10/A-541	11/A-541	
223E	RQ5	D	7'-4"	4'-0"	DHM	PT	SG-3		9/A-541	10/A-541	11/A-541	
223F	RQ1	D	3'-4"	4'-0"	DHM	PT	SG-3		9/A-541	10/A-541	11/A-541	
223G	RQ5	D	7'-4"	4'-0"	DHM	PT	SG-3		9/A-541	10/A-541	11/A-541	
223H	RQ5	D	7'-4"	4'-0"	DHM	PT	SG-3		9/A-541	10/A-541	11/A-541	
223J	RQ1	D	3'-4"	4'-0"	DHM	PT	SG-3		9/A-541	10/A-541	11/A-541	
227A	RQ6	D	4'-0"	2'-0"	DHM	PT	SG-1		9/A-541	10/A-541	11/A-541	
227B	RQ6	D	4'-0"	2'-0"	DHM	PT	SG-1		9/A-541	10/A-541	11/A-541	
302A	RQ4	D	4'-0"	2'-0"	STEEL	PT	SG-2		3/A-542	4/A-542	3/A-542	OPERABLE WINDOW BY HOPES, SEE SPECS
308A	RQ4	D	4'-0"	2'-0"	STEEL	PT	SG-2		3/A-542	4/A-542	3/A-542	OPERABLE WINDOW BY HOPES, SEE SPECS
315A	RQ2	D	4'-0"	4'-0"	DHM	PT	SG-1		9/A-541	10/A-541	11/A-541	
315B	RQ2	D	4'-0"	4'-0"	DHM	PT	SG-1		9/A-541	10/A-541	11/A-541	
328A	RQ6	D	4'-0"	2'-0"	DHM	PT	SG-1		9/A-541	10/A-541	11/A-541	
328B	RQ6	D	4'-0"	2'-0"	DHM	PT	SG-1		9/A-541	10/A-541	11/A-541	
328C	RQ6	D	4'-0"	2'-0"	DHM	PT	SG-1		9/A-541	10/A-541	11/A-541	
328D	RQ6	D	4'-0"	2'-0"	DHM	PT	SG-1		9/A-541	10/A-541	11/A-541	
402A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
404A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
405A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
407A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
410A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
412A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
416A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
418A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
421A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
423A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
424A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	
426A	RQ3	D	4'-0"	1'-4"	DHM	PT	SG-2		9/A-541	10/A-541	11/A-541	

WINDOW SCHEDULE GENERAL NOTES

1. GENERAL WINDOW SHEET NOTES ARE TYPICAL UNLESS NOTED OTHERWISE.
2. SEE FLOOR PLANS A-110 SERIES FOR ALUMINUM STOREFRONT AND CURTAIN WALL LOCATIONS.
3. SEE FLOOR PLANS A-110 SERIES AND WINDOW SCHEDULES A-630 SERIES FOR ALUMINUM WINDOW LOCATIONS.
4. FIRE RATED WINDOWS AND GLASS SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY OCCUR.
5. ASSEMBLY DIMENSIONS SHALL BE FIELD VERIFIED PRIOR TO FABRICATION AND INSTALLATION.
6. COORDINATE OVERALL WINDOW FRAME DEPTHS WITH WALL TYPES.
7. GLAZED OPENINGS WITHIN 18" OF THE FLOOR OR WITHIN 24" HORIZONTALLY OF ANY DOOR OPENING SHALL BE FULLY TEMPERED GLASS APPROVED FOR IMPACT HAZARD.
8. HOLLOW METAL FRAMES IN MASONRY CONSTRUCTION SHALL BE GROUTED FULL.
9. ORDER OF WINDOW SCHEDULE REFLECTS THE ORDER OF THE FLOOR PLANS - NOT ALPHANUMERIC.
10. SEE SPEC SECTION 08 81 00 FOR GLAZING AND 08 88 53 FOR SECURITY GLAZING.
11. REFER TO GENERAL NOTE #19 ON SHEET A-621 FOR SAFETY SIDE TO INSTALL GLAZING STOP.

WINDOW LEGEND

D = DETENTION
ND = NON DETENTION
ADO = AUTOMATIC DOOR OPERATOR
ADC = AUTOMATIC DOOR CLOSER
CR = CARD READER
EL = ELECTRIC LOCK
HDW GP = HARDWARE GROUP
HO = HOLD OPEN
PH = PANIC HARDWARE
V = VINYL STRIPS

MATERIAL
ALUM = ALUMINUM
DHM = DETENTION HOLLOW METAL
HM = HOLLOW METAL
SST = STAINLESS STEEL
WD = WOOD

GLASS LEGEND:
GL = GLASS
LG = LEADED GLASS
RG = RATED GLASS
SG = SPANDREL GLASS

FINISH
ANOD = ANODIZED
FRP = FIBER REINFORCED PLASTIC
PLAM = PLASTIC LAMINATE
Px = PAINT (x REFERS TO COLOR)
ST = STAIN

GLASS LEGEND NOTES:
1. SEE SPECS FOR GLASS TYPS NOTED

WINDOW SCHEDULE TITLES

GL (GLAZING) INDICATEST TYPE OF GLAZING TO BE INSTALLED IN DOORS OR FRAMES. REFER TO SPEC SECTION 08 81 00 FOR GLAZING AND 08 88 53 FOR SECURITY GLAZING.

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TITLE
SCHEDULES - WINDOWS

SHEET
A-632
V1

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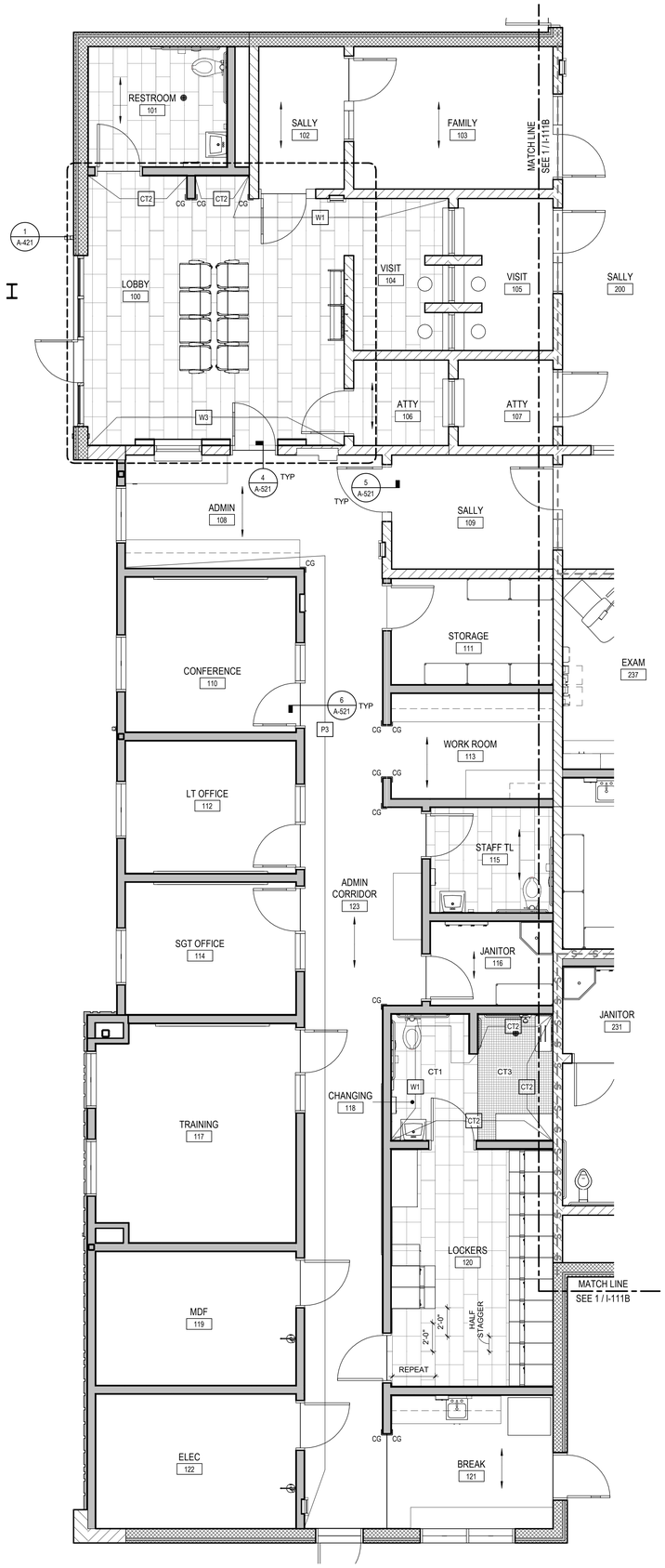

1 FLOOR/WALL FINISH PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SCALE 1/4" = 1'-0"

GENERAL FINISH PLAN NOTES

1. REFER TO FINISH LEGEND/FINISH SCHEDULE ON SHEET I-641 THRU I-643 FOR FINISH CLARIFICATION.
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3. REFER TO SHEET A-521 FOR ALL FLOOR FINISH TRANSITIONS.
4. PROVIDE TRANSITION STRIPS BETWEEN CHANGE IN FLOORING MATERIAL, TYPE AND COLOR TBD BY ARCHITECT. SEE DETAILS ON SHEET A-521.
5. WHEN ADJACENT FLOOR FINISH MATERIALS ARE DIFFERENT HEIGHTS, FLOAT FLOOR TO ALIGN MATERIALS AT TRANSITION.
6. ALL FLOOR FINISH MATERIALS TO COMPLY WITH CBC SECTION 804.1; INTERIOR FLOOR FINISH MATERIALS IN EXIT ENCLOSURES AND CORRIDORS SHALL BE NOT LESS THAN CLASS II AND INTERIOR FLOOR FINISHES IN ALL AREAS COMPLYING WITH ASTM E 648.
7. ALL FLOOR PREP TO COMPLY WITH SPECIFICATIONS SECTIONS 09 65 00 AND 09 68 16
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FINISHED FLOOR
REFER TO ROOM FINISH SCHEDULE AND INTERIOR FINISH LEGEND ON I-641 FOR PRODUCT INFORMATION / INSTALLATION METHOD.

X1 FINISH WALL TAG CLARIFICATION
REFER TO ROOM FINISH SCHEDULE AND INTERIOR FINISH LEGEND ON I-641 FOR PRODUCT INFORMATION / INSTALLATION METHOD.

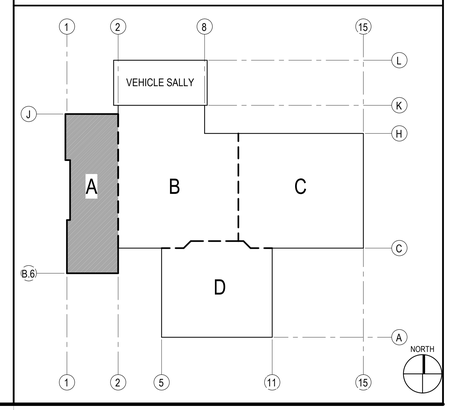
FLOOR INSTALL PATTERN DIRECTION

NOTE:

1) GRAPHIC PATTERNS SHOWN FOR FLOOR MATERIALS ARE IN NO WAY INDICATIVE OF ACTUAL FLOOR PATTERNS. THEY ARE A MEANS TO DIFFERENTIATE BETWEEN MATERIALS.

Draft

KEY PLAN



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TITLE
FLOOR / WALL FINISH PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SHEET
I-111A

V1

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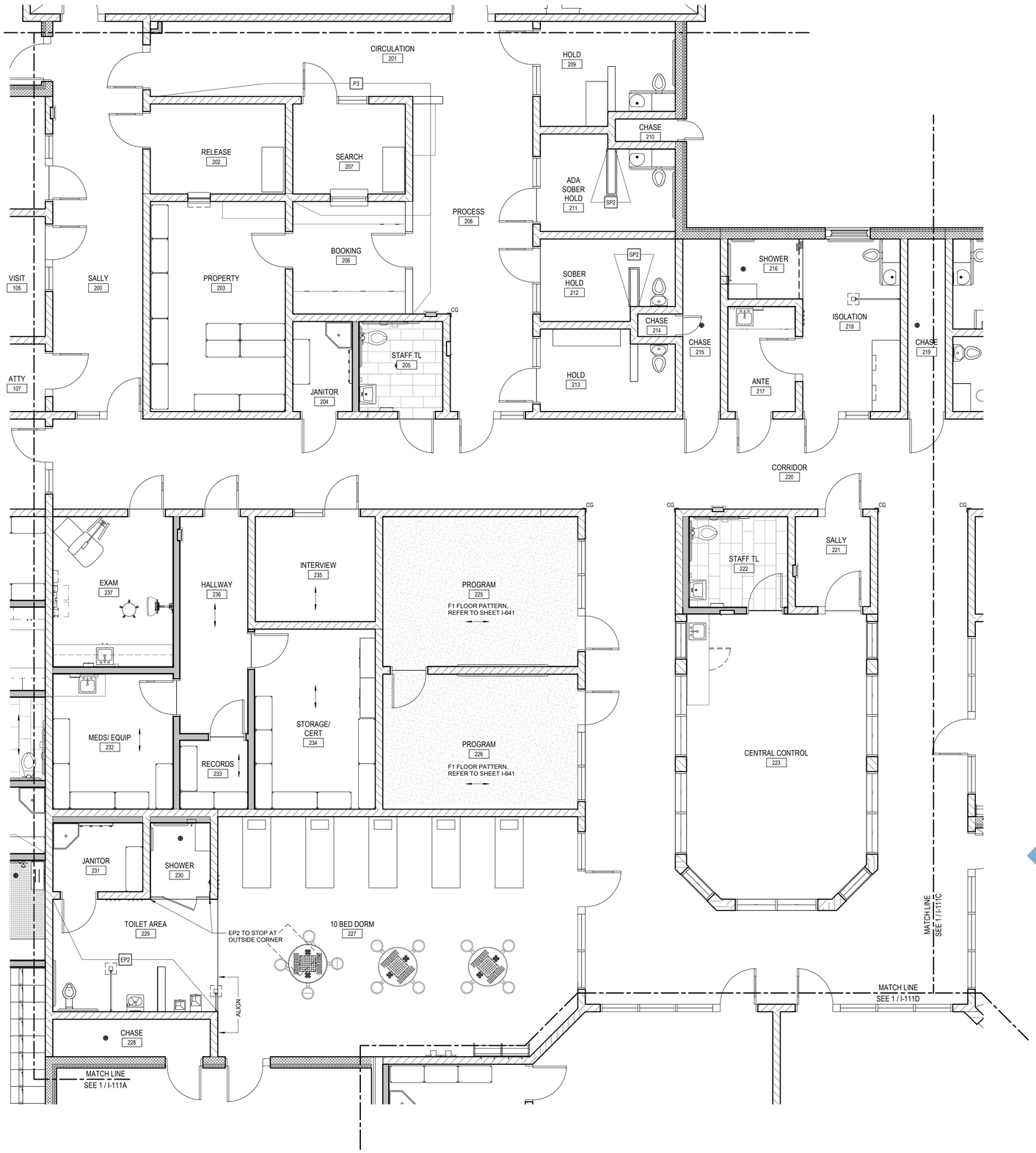

1 FLOOR/WALL FINISH PLAN - LEVEL 1 - ENLARGED - AREA 'B'

SCALE 1/4" = 1'-0"

GENERAL FINISH PLAN NOTES

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2. CHANGE IN INTERIOR FLOOR MATERIAL SHALL OCCUR AT CENTERLINE OF DOOR UNO.
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FLOOR FINISH LEGEND

FINISHED FLOOR
REFER TO ROOM FINISH SCHEDULE AND INTERIOR FINISH LEGEND ON I-641 FOR PRODUCT INFORMATION / INSTALLATION METHOD.

X1 — FINISH WALL TAG CLARIFICATION
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FLOOR INSTALL PATTERN DIRECTION

NOTE:

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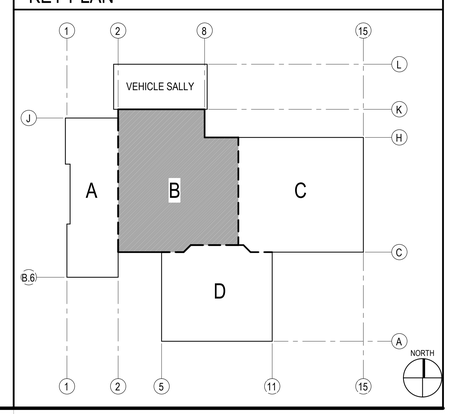
Draft

KEY PLAN



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TITLE
FLOOR / WALL FINISH PLAN - LEVEL 1 - ENLARGED - AREA 'B'

SHEET
I-111B

V1

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1 FLOOR/WALL FINISH PLAN - LEVEL 1 - ENLARGED - AREA 'C'

SCALE 1/4" = 1'-0"

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FLOOR FINISH LEGEND

FINISHED FLOOR
REFER TO ROOM FINISH SCHEDULE AND INTERIOR FINISH LEGEND ON I-641 FOR PRODUCT INFORMATION / INSTALLATION METHOD.

X1 — FINISH WALL TAG CLARIFICATION
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FLOOR INSTALL PATTERN DIRECTION

NOTE:

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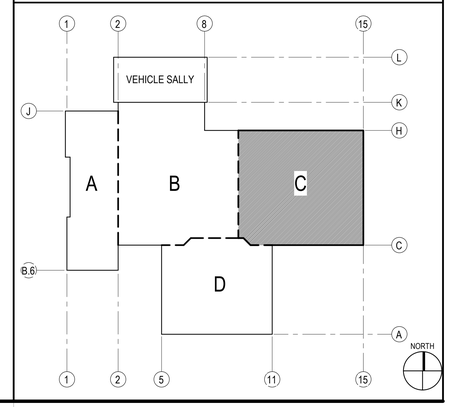
KEY PLAN



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TITLE
FLOOR / WALL FINISH PLAN - LEVEL 1 - ENLARGED - AREA 'C'

SHEET
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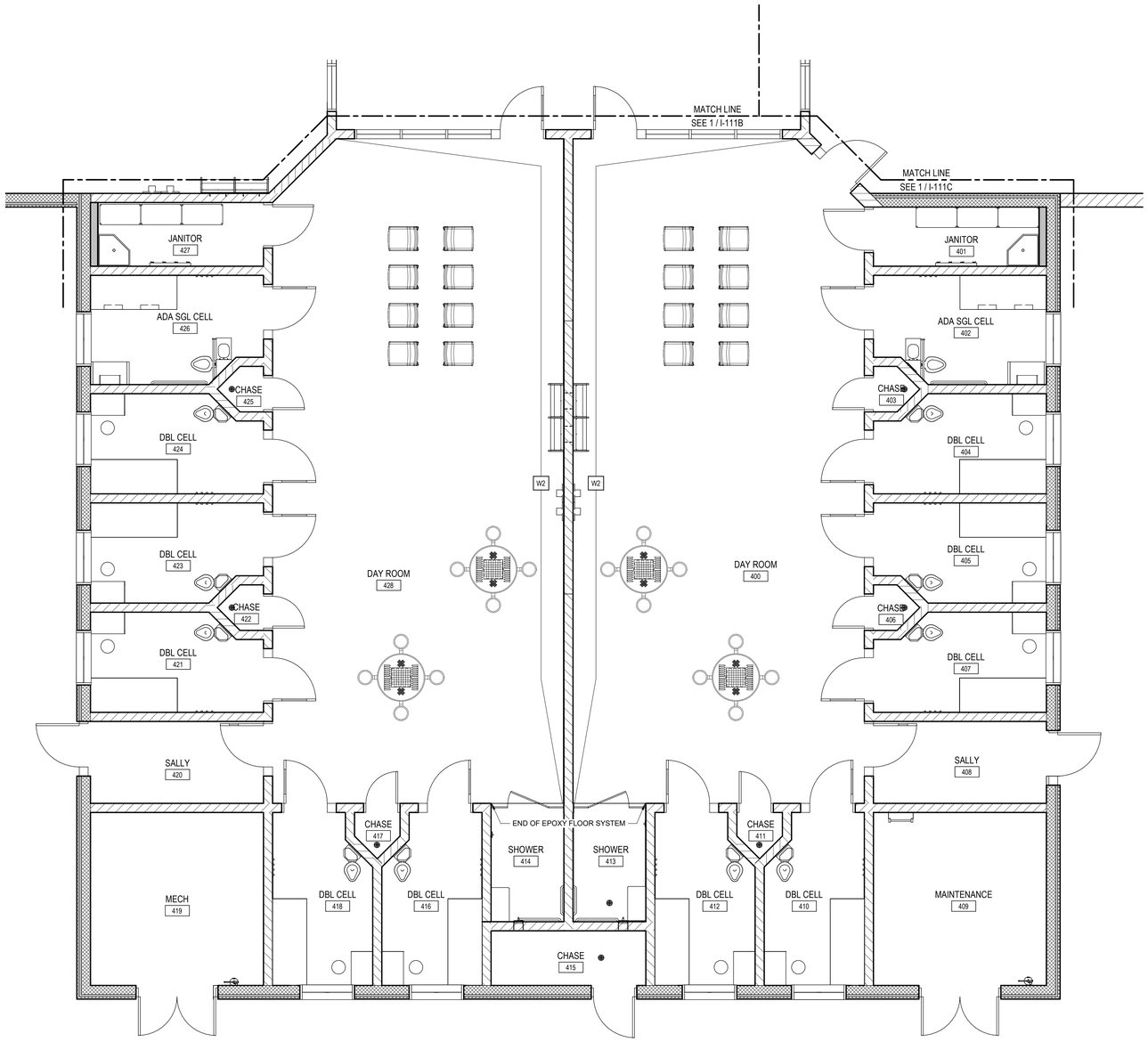

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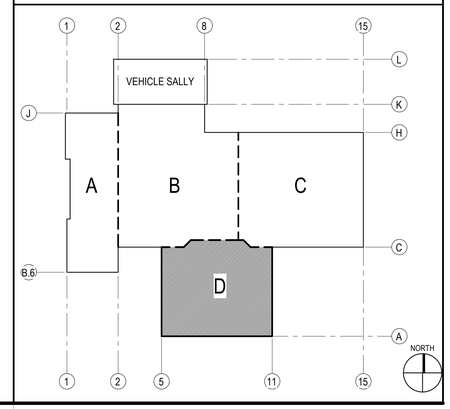
KEY PLAN



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SHEET
I-111D

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ROOM FINISH SCHEDULE AREA 'A'

NO	ROOM NAME	FLOOR FIN	BASE	NORTH FIN	EAST FIN	SOUTH FIN	WEST FIN	CEILING FIN	CASEWORK TYPE	WINDOW COVERING	INTERIOR FINISH REMARKS
100	LOBBY	CT1	B3, --	W1,CT2	P1	W3	P1	CL1, P1		1	1, 6
101	RESTROOM	CT1	B3	W1	CT2	W1	W1	P1			8
102	SALLY	C2	B1	P5	P1	P1	P1	CL3			9
103	FAMILY	C2	B1	P5	P1	P1	P1	CL3			9
104	VISIT	CT1	B3, --	W1	P1	P1	P1	CL3			8
105	VISIT	SP1	--	P1	P1	P1	P1	CL2			
106	ATTY	C2	B1	P1	P1	P1	P1	CL3			9
107	ATTY	SP1	--	P1	P1	P1	P1	CL2			
108	ADMIN	RT1	B1	P1	P1	P1	P1	CL3	1	1	
109	SALLY	SP1	--	P1	P1	P1	P1	CL3			
110	CONFERENCE	C1	B1	W4	W4	W4	W4	CL3		1	9
111	STORAGE	RT1	B1	P1	P1	P1	P1	P1			
112	LT OFFICE	C1	B1	P1	P1	P4	P1	CL3		1	9
113	WORK ROOM	RT1	B1	P4	P1	P1	P1	CL3	1		
114	SGT OFFICE	C1	B1	P1	P1	P3	P1	CL3		1	9
115	STAFF TL	CT1	B3	W1	W1	CT2	W1	P1			8
116	JANITOR	RT1	B1	SP3	SP3	P1	P1	P1			
117	TRAINING	C1	B1	W4	W4	W4	W4	CL3		1	9
118	CHANGING	CT1,CT3	B3	W1,CT2	W1,CT2	CT2	W1,CT2	P1			5, 8
119	MDF	SP1	--	P1	P1	P1	P1	OPEN			
120	LOCKERS	CT1	B3	CT2	P1	CT2	CT2	CL3			8
121	BREAK	RT1	B1	P4	P1	P1	P1	CL3	1, 2	1	
122	ELEC	SP1	--	P1	P1	P1	P1	OPEN			
123	ADMIN CORRIDOR	RT1	B1		P1	P1	P3	CL3	1		

ROOM FINISH SCHEDULE AREA 'B'

NO	ROOM NAME	FLOOR FIN	BASE	NORTH FIN	EAST FIN	SOUTH FIN	WEST FIN	CEILING FIN	CASEWORK TYPE	WINDOW COVERING	INTERIOR FINISH REMARKS
200	SALLY	SP1	--	P1	P1	P1	P1	CL3			
201	CIRCULATION	SP1	--	P1	P1	P1,P3	P1	CL3			
202	RELEASE	SP1	--	P1	P1	P1	P1	P1			
203	PROPERTY	SP1	--	P1	P1	P1	P1	OPEN	1		
204	JANITOR	SP1	B4	SP3	SP3	P1	P1	P1			
205	STAFF TL	CT1	B3	W1	W1	W1	CT2	P1			8
206	BOOKING	SP1	--	P3	P1	P1	P1	CL3	1		
207	SEARCH	SP1	--	P1	P1	P1	P1	P1			
208	PROCESS	SP1	--	P1	P1	P1	P1,P3	CL3			
209	HOLD	SP1	--	P1	P1	P1	P1	PE1			
210	CHASE	SP1	--	--	--	--	--	--			
211	ADA SOBER HOLD	SP2	--	P1	P1	P1	P1	P1			2
212	SOBER HOLD	SP2	--	P1	P1	P1	P1	P1			2
213	HOLD	SP1	--	P1	P1	P1	P1	PE1			
214	CHASE	SP1	--	--	--	--	--	--			
215	CHASE	SP1	--	--	--	--	--	--			
216	SHOWER	EP1	--	EP2	EP2	EP2	EP2	PE1			
217	ANTE	SP1	--	PE1	PE1	PE1	PE1	P1	1		
218	ISOLATION	SP1	--	P1	P1	P1	P1	CL4			
219	CHASE	SP1	--	--	--	--	--	--			
220	CORRIDOR	SP1	--	P1	P1	P1	P1	CL3			
221	SALLY	SP1	--	P1	P1	P1	P1	CL3			
222	STAFF TL	CT1	B3	W1	W1	W1	CT2	P1			8
223	CENTRAL CONTROL	C2	B1	P4	P1	P1	P1	CL3	1		9
224A	CORRIDOR	SP1	--	P1	P1	P1	P1	CL3			
224B	CORRIDOR	SP1	--	P1	P1	P1	P1	CL3			
224C	CORRIDOR	SP1	--	P1	P1	P1	P1	CL3			
225	PROGRAM	F1	B1	P1	P1	P5	P3	CL6			
226	PROGRAM	F1	B1	P5	P1	P1	P3	CL6			
227	10 BED DORM	SP1	--	PE1	PE1	PE1	PE1	CL6			
228	CHASE	SP1	--	--	--	--	--	--			
229	TOILET AREA	EP1	--	PE1	PE1	EP2	EP2	PE1			
230	SHOWER	EP1	--	EP2	EP2	EP2	EP2	PE1			
231	JANITOR	EP1	B4	SP3	P1	P1	SP3	PE1			
232	MEDS/ EQUIP	RT1	B1	P5	P1	P1	P1	CL3	1		
233	RECORDS	RT1	B1	P1	P1	P1	P1	CL3			
234	STORAGE/ CERT	RT1	B1	P1	P1	P1	P1	P1			
235	INTERVIEW	C2	B1	P1	P1	P3	P4	CL3			9
236	HALLWAY	RT1	B1	P1	P1	P1	P1	CL3			
237	EXAM	SF1	B2	P1	P1	P5	P3	CL3	1		
238	VEHICLE SALLY	--	--	P1	P1	P1	P1	--			

ROOM FINISH SCHEDULE AREA 'C'

NO	ROOM NAME	FLOOR FIN	BASE	NORTH FIN	EAST FIN	SOUTH FIN	WEST FIN	CEILING FIN	CASEWORK TYPE	WINDOW COVERING	INTERIOR FINISH REMARKS
301	CORRIDOR	SP1	--	P1	P1	P1	P1	CL3			
302	AD-SEG	SP1	--	PE1	PE1	PE1	PE1	CL4			
303	SINGLE	SP1	--	P1	P1	P1	P1	P1			
304	ADA SINGLE	SP1	--	P1	P1	P1	P1	P1			
305	SHOWER	EP1	--	EP2	EP2	EP2	EP2	PE1			
306	SAFETY	SP2	--	SP2	SP2	SP2	SP2	CL4			2, 3
307	CHASE	SP1	--	--	--	--	--	--			
308	4 BED DORM	SP1	--	P1	P1	P1	P1	CL4			
309	SHOWER	EP1	--	EP2	EP2	EP2	EP2	PE1			
310	CHASE	SP1	--	--	--	--	--	--			
311	LAUNDRY	SP1	B4	SP3	SP3	SP3	SP3	P1			
312	MECH	SP1	--	P1	P1	P1	P1	OPEN			
313	SALLY	SP1	--	P1	P1	P1	P1	CL3			
314	KITCHEN	CT4	B4	SP3	SP3	SP3	SP3	CL5			8
315	OFFICE/SECURITY STORAGE	CT4	B4	P1	P3	P4	P1	CL3		1	8
316	STAFF TL	CT4	B4	SP3	SP3	PE1	SP3	P1			8
317	INMATE TL	CT4	B4	SP3	SP3	PE1	PE1	P1			8
318	ELECT	SP1	--	P1	P1	P1	P1	OPEN			
319	ATS	--	--	--	--	--	--	--			
320	JANITOR	EP1	B4	P1	P1	SP3	SP3	PE1			
321	SHOWER	EP1	--	EP2	EP2	EP2	EP2	PE1			
322	TOILET AREA	EP1	--	EP2	EP2	PE1	PE1	PE1			
323	CHASE	SP1	--	--	--	--	--	--			
324	DRY STORAGE	CT4	B4	SP3	SP3	SP3	SP3	P1			8
325	JANITOR	SP1	B4	P1	SP3	SP3	P1	P1			
326	LOW VOLT	SP1	--	P1	P1	P1	P1	OPEN			
327	SEC ELEC	SP1	--	P1	P1	P1	P1	OPEN			
328	10 BED DORM	SP1	--	PE1	PE1	PE1	PE1	CL6			
329	OUTDOOR REC	--	--	--	--	--	--	--			

ROOM FINISH SCHEDULE AREA 'D'

NO	ROOM NAME	FLOOR FIN	BASE	NORTH FIN	EAST FIN	SOUTH FIN	WEST FIN	CEILING FIN	CASEWORK TYPE	WINDOW COVERING	INTERIOR FINISH REMARKS
400	DAY ROOM	SP1	--	W2, P2	PE1	PE1	W2,P5	CL6			
401	JANITOR	EP1	B4	P1	SP3	SP3	P1	PE1			
402	ADA SGL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
403	CHASE	SP1	--	--	--	--	--	--			
404	DBL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
405	DBL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
406	CHASE	SP1	--	--	--	--	--	--			
407	DBL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
408	SALLY	SP1	--	P1	P1	P1	P1	P1			
409	MAINTENANCE	SP1	--	P1	P1	P1	P1	OPEN			
410	DBL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
411	CHASE	SP1	--	--	--	--	--	--			
412	DBL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
413	SHOWER	EP1	--	EP2	EP2	EP2	EP2	PE1			
414	SHOWER	EP1	--	EP2	EP2	EP2	EP2	PE1			
415	CHASE	SP1	--	--	--	--	--	--			
416	DBL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
417	CHASE	SP1	--	--	--	--	--	--			
418	DBL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
419	MECH	SP1	--	P1	P1	P1	P1	OPEN			
420	SALLY	SP1	--	P1	P1	P1	P1	P1			
421	DBL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
422	CHASE	SP1	--	--	--	--	--	--			
423	DBL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
424	DBL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
425	CHASE	SP1	--	--	--	--	--	--			
426	ADA SGL CELL	SP1	--	PE1	PE1	PE1	PE1	PE1			
427	JANITOR	EP1	B4	P1	P1	SP3	SP3	PE1			
428	DAY ROOM	SP1	--	W2,P2	W2,P5	PE1	PE1	CL6			
433	WALK-IN COOLER	CT4	B4	P1	P1	P1	P1	--			8
434	WALK-IN FREEZER	--	--	--	--	--	--	--			

INTERIOR FINISH LEGEND

FINISH CODE	MANUFACTURER	TYPE / STYLE, COLOR, SIZE	NOTES
CARPET			
C1	J&J FLOORING	FRACTURED PLAIN 7587, COLOR: FLECK 2871, 24X24	GENERAL CARPET. INSTALL: MONOLITHIC
C2	J&J FLOORING	NETWORK PLANK 1842, COLOR: ROUTER 2856, 12X48	INSTITUTION CARPET. INSTALL: CUSTOM PATTERN F1
C3	J&J FLOORING	NETWORK PLANK 1842, COLOR: TRACKS 2909, 12X48	INSTITUTION CARPET ACCENT. INSTALL: CUSTOM PATTERN F1
RESILIENT			
RT1	J&J FLOORING	ALLOY V5008, COLOR: UNION 1050, 9X48	INSTALL: 1/3 STAGGER
SHEET FLOORING			
SF1	SHAW CONTRACT	INNATE SHEET 4219V, COLOR: NATURAL 19110	W/ METAL CAP STRIP
CERAMIC TILE			
CT1	DALTILE	SLATE ATTACHE, COLOR: META DARK GRAY SA07, FINISH: MATTE, 12X24	FLOOR TILE. INSTALL: REFER TO SHEET I-111A FOR DETAILS
CT2	DALTILE	WANDERWISE, COLOR: SWAN WW01, FINISH: MATTE, 12X24	WALL TILE. INSTALL: STACKED
CT3	DALTILE	SLATE ATTACHE, COLOR: META DARK GRAY SA07, FINISH: MATTE, 2X2 MOSAIC	SHOWER TILE
CT4	DALTILE	QUARRY TEXTURES, COLOR: ASHEN GRAY 0T03, FINISH: ABRASIVE, 6X6	KITCHEN QUARRY TILE. INSTALL: MONOLITHIC
CT5	DALTILE	WANDERWISE, COLOR: DRIFT WW02, FINISH: MATTE, 12X24	LOBBY PORTAL. INSTALL: CUSTOM PATTERN, REFER TO SHEET I-111A
CT6	DALTILE	WANDERWISE, PLANK, COLOR: DRIFT WW02, FINISH: MATTE, 6X24	LOBBY PORTAL. INSTALL: CUSTOM PATTERN, REFER TO SHEET I-111A
PAINT			
P1	DUNN EDWARDS	DEW380 WARM WHITE	FIELD WHITE
P2	DUNN EDWARDS	SHADY DEC774	DOOR, STAIR, RAILS
P3	DUNN EDWARDS	PLAY ON GRAY DE6228	TRIMS, FRAMES
P4	DUNN EDWARDS	PERISCOPE DE5873	STAFF ACCENT
P5	DUNN EDWARDS	HERITAGE BLUE DET550	INMATE ACCENT
PE1	DUNN EDWARDS	EPOXY PAINT, DEW380 WHITE	
EPOXY			
EP1	DECO FLOOR	FLAKE AGGREGATE SYSTEM, COLOR: B-709	FLOOR EPOXY RESIN SYSTEM
EP2	DECO FLOOR	SEAMLESS SHOWER SYSTEM DFL-950, COLOR: B-709	WALL EPOXY RESIN COATING SYSTEM
BASE			
B1	MANNINGTON COMMERCIAL	4" BURKEBASE TYPE TP, COLOR: MOONBEAM 050	COVED PROFILE
B2		6" INTEGRAL COVE BASE	
B3	DALTILE	WANDERWISE, COLOR: SWAN WW01, FINISH: MATTE, CUSTOM SIZE	8X24 BASE TILE CUT FROM FULL TILE
B4	DALTILE	QUARRY TEXTURES, COLOR: ASHEN GRAY 0T03, COVE BASE Q3565 5X6	SQUARE TOP BASE
CEILING FINISHES			
CL1	RULON	5-1/4" LINEAR OPEN WOOD CEILING SYSTEM W 3/4" REVEAL, FINISH: STAIN TO MATCH PL1	LOBBY
CL2	ARMSTRONG	FINE FISSURED 741, COLOR: WHITE, 12X12	
CL3	ARMSTRONG	FINE FISSURED 1729, COLOR: WHITE, 24X48	
CL4	TRUSSBILT	BARRIERDEK, 8X18	
CL5	ARMSTRONG	KITCHEN ZONE 672, COLOR: WHITE, 24X48	
CL6	ARMSTRONG	ULTIMA HIGH NRC 1944, COLOR: WHITE, 24X48	
PLASTIC LAMINATE			
PL1	WILSONART	RIVER CHERRY 3937-38	WOOD GRAIN TO RUN VERTICAL
SOLID SURFACE			
SS1	CORIAN	CARRARA LINO	
SPECIALTY PRODUCTS AND FINISHES			
SP1	SIKA SCOFIELD	SELECT SEAL PLUS SEALER	
SP2	MARATHONG ENGINERRING	GOLD METAL SAFETY PADDING	
SP3	MARLITE	FIBERGLASS REINFORCED PANELS, COLOR: WHITE S100 S/2/S	JANITOR'S CLOSET, KITCHEN
SP4	SCRANTON PRODUCT	HINY HIDERS, COLOR: GREY, TEXTURE: ORANGE PEEL OP	INMATE SHOWER/TOILET PARTITIONS
SP5	LAMVIN	ULTRA HIGH IMPACT ACOUSTICAL PANEL WRAPPED; CARNEGIE XOREL SWITCH 6237 20	2-1/16" THICK
SP6	LAMVIN	ULTRA HIGH IMPACT ACOUSTICAL PANEL WRAPPED; CARNEGIE XOREL SWITCH 6237 21	2-1/16" THICK
SP7	LAMVIN	ULTRA HIGH IMPACT ACOUSTICAL PANEL WRAPPED; CARNEGIE XOREL SWITCH 6237 22	2-1/16" THICK
SP8	MECHOSHADE	ECOVEIL 1350 SERIES, COLOR: 1369 SILVER BIRCH, 5% OPEN	
SP9	MARLITE	TRANSFORMING WALL SURFACE SYSTEM W/ PLASTIC LAMINATE TO MATCH PL1	CONFERENCE & TRAINING WAINSCOT. 3/4" THICK

PATTERNS AND COMBINATIONS

FLOOR

CODE	DESCRIPTION	NOTES
F1	COMBINATION OF C2 & C3 PATTERN	SEE F1 PATTERN ON SHEET

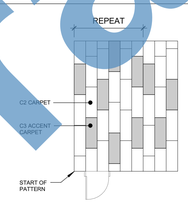
WALL

CODE	DESCRIPTION	NOTES
W1	COMBINATION OF CT2 WAINSCOT WITH PAINT ABOVE	REFER TO ELEVATIONS FOR WAINSCOT HEIGHT
W2	COMBINATION OF SP5, SP6, SP7 WITH PAINT (REFER TO ROOM FINISH SCHEDULE FOR PAINT COLOR)	REFER TO ELEVATIONS FOR CLARIFICATIONS
W3	COMBINATION OF CT2 AND CT5 & 6 AT PORTAL	REFER TO SHEET I-111A FOR CLARIFICATION/INFORMATION
W4	COMBINATION OF SP9 WAINSCOT WITH PAINT ABOVE	REFER TO ELEVATIONS FOR WAINSCOT HEIGHT

GENERAL NOTES

1. IF AT ANY TIME THE GENERAL CONTRACTOR REQUIRES CLARIFICATION OF FINISH LOCATIONS, CONTACT DESIGNER PRIOR TO FINISH APPLICATION.
2. ALL INTERIOR FINISHES SHALL COMPLY WITH CBC SECTION 803 (INTERIOR FINISHES)
3. CEILING FINISHES SHALL BE IN COMPLIANCE WITH TABLE 803.13
4. WALL AND CEILING MATERIALS SHALL NOT EXCEED THE ALLOWABLE FLAME SPREAD CLASSIFICATION IN APPLICABLE CODE, CLASS A
5. INTERIOR WALL AND CEILING FINISHES FOR ALL ROOMS AND ENCLOSED SPACES IN I-3 OCCUPANCY, INCLUDING EXIT ENCLOSURES AND CORRIDORS SHALL BE CLASS B WITH FLAME SPREAD 26 TO 75.
6. PAINT ELECTRICAL PANEL DOORS TO MATCH ADJACENT WALL UNO.
7. INTERIOR WOOD DOORS SHALL BE GRADE AA FACE, WOOD SPECIES CHERRY, PLAIN SLICE, ALL STAINED TO MATCH PL1.
8. SHEET FLOORING WITH INTEGRAL COVED BASE SHALL HAVE WELDED SEAMS TO MATCH DARKEST ADJACENT FLOORING.
9. FINISHES NOTED ON ROOM FINISH SCHEDULE FOR WALLS SHALL EXTEND THE FULL LENGTH AND HEIGHT OF THE WALL UNLESS OTHERWISE NOTED; IF THERE ARE OBJECTS SUCH AS LOCKERS OR SHELVING UNITS, ETC. IN FRONT OF A WALL IN AN ELEVATION, THE WALL FINISH SHALL STILL EXTEND THE FULL LENGTH AND HEIGHT OF THE WALL BEHIND THE OBJECT.
10. FINISH SURFACE OF ALL FINISHES SHALL BE FLUSH WITH THE TOP FINISH SURFACE OF ALL FLOOR DRAINS AND FLOOR SINKS, UON. SEE DETAIL 7/A-522 SHEET.
11. LOW CMU WALLS TO BE PAINTED TO MATCH ADJACENT WALL, UON.

F1 CARPET PATTERN



1/3 STAGGER INSTALL. ACCENT CARPETS AS SHOWN
BEGIN PATTERN AT CORNER OF ROOM ADJACENT TO DOOR

CASEWORK LEGEND AND NOTES

NOTES

1. CASEWORK TO BE TYPE 1, UNO
2. PROVIDE CASEWORK LOCKS AS NOTED ON THE INTERIOR ELEVATIONS. (COORDINATE CASEWORK LOCKS, QUANTITY AND LOCATION WITH OWNER)
3. PROVIDE GROMMETS @ AREAS INDICATED ON PLANS. COLOR TBD, LOCATIONS TBD WITH ARCHITECT.
4. ALL CASEWORK SHELVING SHALL BE ADJUSTABLE, UNO.
5. PLASTIC LAMINATE DUST CAPS TO MATCH ADJACENT VERTICAL LAMINATE, UNO.
6. COUNTER EDGE BANDING TO BE 3MIL GREENLINE ABS EDGEBANDING, TO MATCH HORIZONTAL SURFACE.
7. DRAWER AND DOOR EDGE BANDING TO BE 3 MIL EDGE BANDING TO MATCH VERTICAL SURFACE.

TYPE 1

HORIZONTAL: SS1; VERTICAL: PL1; BASE: USE BASE SPECIFIED IN ROOM (STANDARD UPPERS AND LOWERS) (TYPICAL UNO)

TYPE 2

HORIZONTAL: SS1

WINDOW COVERING LEGEND & NOTES

NOTES

1. FASCIA COLOR (TRIMS AND HOUSING) TO BE SELECTED BY ARCHITECT.

TYPE

1 MOTORIZED ROLLER SHADE WITH SP8 AT EXTERIOR WINDOWS.

INTERIOR FINISH REMARKS

1. TILE BASE TO OCCUR AT TILE WALLS ONLY.
2. WRAP PONY WALL WITH SAFETY PADDING, SP2.
3. PROVIDE SAFETY PADDING, SP2, ON DOOR AND DOOR FRAME.
4. NOT USED
5. FLOORING CHANGES TO CT3 AT SHOWER AREA.
6. WRAP ALL SIDES OF GYP BD SOFFIT WITH PAINT.
7. NOT USED
8. INSTALL CERAMIC TILE CENTERED AND BALANCED PER ANSI A108.02 SECTION 4.3 STANDARDS, EXCEPTIONS UON OR ARE WALLS INDICATED W3.
9. START INSTALLATION OF CARPET TILE PLANKS AT CORNER OF ROOM ADJACENT TO ENTRANCE DOOR (SEE F1 PATTERN FOR SIMILAR START POINT).

Draft

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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

SEAL

LICENSED ARCHITECT
RICHARD J. DAVIS
C 27266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
INTERIOR FINISH LEGEND AND SCHEDULE

SHEET
I-641

V1

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2 RENDERING - TYPICAL OFFICE (REPRESENTATIONAL ONLY)
12" = 1'-0"

1 RENDERING - EXAM (REPRESENTATIONAL ONLY)
12" = 1'-0"

4 RENDERING - TYPICAL PROGRAM ROOM (REPRESENTATIONAL ONLY)
12" = 1'-0"

5 RENDERING - TYPICAL DAYROOM (REPRESENTATIONAL ONLY)
12" = 1'-0"

Draft

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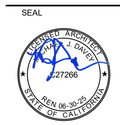

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TITLE
3D/RENDERING
GRAPHICS

SHEET
I-901

V1

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MONO COUNTY PUBLIC WORKS DEPARTMENT

NEW JAIL

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MONO COUNTY NEW JAIL

NEW CONSTRUCTION

GOVMOTUS No:22-N-3854-CP-DR

CONSTRUCTION DOCUMENTS SEPTEMBER 11, 2023 VOLUME 2 OF 2

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ARCHITECTURAL SYMBOLS LEGEND

D2 A-512	DETAIL INDICATOR - REFERENCE & DETAIL INDICATOR - ITEM
B3 A-501	DETAIL INDICATOR - SECTION & DETAIL INDICATOR - SECTION ITEM
B3 A-301 / D2 A-512	SECTION INDICATOR - PARTIAL BUILDING/WALL & DETAIL INDICATOR - AREA
A2 A-303	SECTION INDICATOR - BUILDING
A4 A-201	ELEVATION INDICATOR - EXTERIOR
A1 A-202 A2 A4 A-202 A2 A3	ELEVATION INDICATOR - INTERIOR, SINGLE & MULTIPLE VIEW
MATCH LINE SEE XX / X-XXX	MATCH LINE INDICATOR
1 A	REFERENCE GRID WITH REFERENCE GRID LINES
22	REVISION INDICATOR & REVISION CLOUD
ROOM NAME 101	ROOM IDENTIFIER WITH ROOM NAME & NUMBER
LEVEL 1 100'-0" / TOC 98'-8"	ELEVATION INDICATOR - LEVEL & SPOT
10	WINDOW OR LOUVER IDENTIFIER
PLAN NORTH	PLAN NORTH & TRUE NORTH INDICATOR
101A	DOOR OPENING IDENTIFIER
1S4A J	PARTITION TYPE INDICATOR
LCKR2 (3)	ACCESSORY TAG

DENOTES QUANTITY

LIST OF ARCHITECTURAL ABBREVIATIONS

	SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABBREVIATIONS NOT LISTED BELOW.
&	AND
@	AT
(E)	EXISTING
'	FOOT, FEET
"	INCH(ES)
#	NUMBER
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT / ENGINEER
AB	ANCHOR BOLT
ABV	ABOVE
AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTIC
AD	AREA DRAIN
ADC	AUTOMATIC DOOR CLOSER
ADO	AUTOMATIC DOOR OPERATOR
ADDL	ADDITIONAL
ADJ SHV	ADJUSTABLE SHELVING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ASSY	ASSEMBLY
BD	BOARD
BKG	BACKING
BLDG	BUILDING
BM	BEAM
BM	BENCHMARK
BOT	BOTTOM
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
C	CHANNEL
CAB	CABINET
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CEM	CEMENT
CEM PLAS	CEM PLASTER
CFLG	COUNTERFLASHING
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CI	CAST IRON
CJ	CONSTRUCTION JOINT / CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUE / CONTINUOUS
COTG	CLEANOUT TO GRADE
CP	CONTROL PANEL
CPT	CARPET
CRS	COLD ROLLED STEEL
CSK	COUNTER SUNK
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DHM	DETENTION HOLLOW METAL
DIA	DIAMETER
DIM	DIMENSION
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DWG	DRAWING
DWR	DRAWER
EA	EACH
EGSB	EXTERIOR GYPSUM SHEATHING BOARD
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC / ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EPB	ELECTRICAL PANEL BOARD
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FB	FLAT BAR
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH
FLG	FLOORING
FLL	FLOW LINE
FLR	FLOOR
FOC	FACE OF CONCRETE/CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIREPROOF
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET / FOOT
FTG	FOOTING
FURG	FURRING
FUT	FUTURE
G	GROUND; NATURAL GAS
GA	GAGE
GALV	GALVANIZED
GB	GRAB BAR
GI	GALVANIZED IRON
GLU LAM	GLUED LAMINATED WOOD
GYP	GYPSUM
HB	HOSE BIB
HC	HOLLOW CORE
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
KIT	KITCHEN
L	ANGLE
LAB	LABORATORY
LAV	LAVATORY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MULL	MULLION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFF	OFFICE
OFL	OVER FLOW LEADER
OGL	OBSCURE GLASS
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PAF	POWER ACTUATED FASTENER
PL	PROPERTY LINE; PLATE
PLAM	PLASTIC LAMINATE
PLB	PLUMB
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT; PAINT
PTN	PARTITION
PV	PHOTOVOLTAIC
QT	QUARRY TILE
R	RADIUS; RISER
RD	ROOF DRAIN
REBAR	REINFORCING STEEL BAR
REF	REFERENCE
REF	REFRIGERATOR
REINF	REINFORCE / REINFORCING
REQD	REQUIRED
RESIL	RESILIENT
RM	ROOM
RO	ROUGH OPENING
RWD	REDWOOD
RWL	RAIN WATER LEADER
SAD	SEE ARCHITECTURAL DRAWINGS
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN
SDST	SELF DRIVING, SELF TAPPING
SHT	SHEET
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SLNT	SEALANT
SM	SHEET METAL
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SEWER; SERVICE SINK
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP CLG	SUSPENDED CEILING
SV	SHEET VINYL
SYMM	SYMMETRICAL
SYS	SYSTEM
T	TREAD
T&G	TONGUE & GROOVE
TEL	TELEPHONE
THK	THICKNESS
TMH	TOP OF MANHOLE
TMPD	TEMPERED
TO	TOP OF
TOC	TOP OF CURB
TOF	TOP OF FRAME
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER/CABINET
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VFY	VERIFY
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
W/O	WHERE OCCURS
WP	WORKING POINT
WPM	WATERPROOF MEMBRANE
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WWR	WELDED WIRE REINFORCEMENT

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APPLICABLE CODES

APPLICABLE REQUIREMENTS OF CODES AND STANDARDS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

CALIFORNIA BUILDING CODE (CBC)

CALIFORNIA CODE OF REGULATIONS TITLE 19
PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

CALIFORNIA CODE OF REGULATIONS TITLE 24

PART 1	2022	CALIFORNIA ADMINISTRATIVE CODE
PART 2	2022	CALIFORNIA BUILDING CODE VOLS. 1 & 2 (2021 IBC AS AMENDED BY CA)
PART 3	2022	CALIFORNIA ELECTRICAL CODE (2020 NEC AS AMENDED BY CA)
PART 4	2022	CALIFORNIA MECHANICAL CODE (2021 IMC AS AMENDED BY CA)
PART 5	2022	CALIFORNIA PLUMBING CODE (2021 IPC AS AMENDED BY CA)
PART 6	2022	CALIFORNIA ENERGY CODE (CEC)
PART 9	2022	CALIFORNIA FIRE CODE (2021 IFC AS AMENDED BY CA)
PART 11	2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGreen)
PART 12	2022	CALIFORNIA REFERENCED STANDARDS CODE

PARTIAL LIST OF APPLICABLE STANDARDS

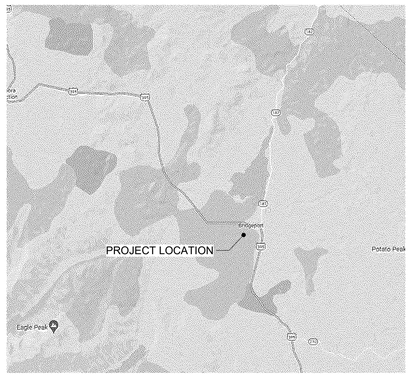
NFPA 10	STANDARD FOR PORTABLE FIRE EXTINGUISHERS	2021 EDITION
NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (CA AMENDED)	2022 EDITION
NFPA 14	STANDPIPE SYSTEMS (CA AMENDED)	2019 EDITION
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 EDITION
NFPA 24	PRIVATE FIRE MAINS (CA AMENDED)	2019 EDITION
NFPA 70	NATIONAL ELECTRICAL CODE (CA AMENDED)	2020 EDITION
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED)	2022 EDITION
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2019 EDITION
NFPA 96	STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS	2020 EDITION
NFPA 170	STANDARD FOR FIRE SAFETY AND EMERGENCY SYMBOLS	2018 EDITION
NFPA 241	STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS	2019 EDITION
NFPA 780	STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS	2017 EDITION
NFPA 1225	STANDARD FOR EMERGENCY SERVICES COMMUNICATIONS	2022 EDITION
2010 ADA	STANDARDS FOR ACCESSIBLE DESIGN	

MINIMUM STANDARDS FOR LOCAL DETENTION FACILITIES, TITLE 24
PART 1, SECTION 13-102
PART 2, SECTION 1231

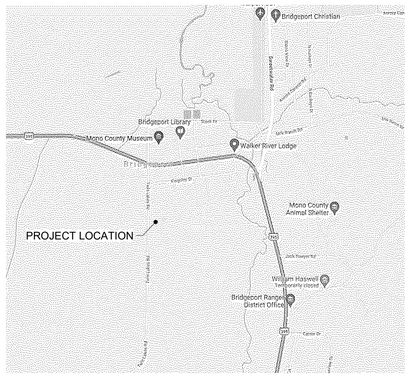
CONSTRUCTION PHASE SHALL COMPLY WITH CFC CHAPTER 33 - FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION, TITLE 19, DIVISION 1, CALIFORNIA CODE OF REGULATIONS (CCR) & 2019 NFPA 241

ALL FINISHES , FURNISHINGS AND MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF 2022 CBC/CFC CHAPTER 8 & CCR TITLE 19 FOR FLAME SPREAD AND SMOKE DEVELOPMENT

LOCATION MAP



VICINITY MAP



PROJECT DATA

REFER TO SHEETS GL101, GL110, AND GL111 FOR PROJECT DATA, BUILDING CONSTRUCTION TYPE, OCCUPANCY CLASSIFICATIONS, CODE ANALYSIS, AND LIFE SAFETY FLOOR/SITE PLANS.

NOTE: ADDITIONAL FLOW TEST IS REQUIRED PRIOR TO CONSTRUCTION AND SHALL BE PERFORMED BY C-16 LICENSED CONTRACTOR AND WITNESSED BY AHJ/DSFM.

SCOPE OF PROJECT

THIS PROJECT CONSISTS OF A NEW SINGLE STORY 21,815 SQUARE FOOT DETENTION FACILITY (JAIL) AND ASSOCIATED SITE IMPROVEMENTS. THE BUILDING WILL INCLUDE SIX HOUSING UNITS (TOTAL OF 48 BSCC RATED BEDS) FOR BOTH MEN AND WOMEN CONSISTING OF TWO (11) BED CELL UNITS, TWO (10) BED DORM UNITS, ONE (4) BED DORM UNIT, ONE (2) BED AD-SEG UNIT, AND ONE ISOLATION BED. ALSO INCLUDED ARE PROGRAM SPACES, INTAKE AND PROCESSING, FOOD SERVICE AND LAUNDRY, AND ADMIN. SPACE FOR STAFF. THIS IS A TYPE II FACILITY AS DESCRIBED IN THE CALIFORNIA ADMINISTRATIVE CODE, CHAPTER 13.

DEFERRED SUBMITTALS

APPROVAL OF THE AUTOMATIC FIRE ALARM SYSTEM AND THE AUTOMATIC FIRE SPRINKLER SYSTEM BY THE CALIFORNIA STATE FIRE MARSHAL IS DEFERRED. SHOP DRAWINGS FOR THESE SYSTEMS MUST BE SUBMITTED TO THE CALIFORNIA STATE FIRE MARSHAL AND THE BOARD OF STATE AND COMMUNITY CORRECTIONS FOR APPROVAL PRIOR TO INSTALLATION.

THE FIRE ALARM SYSTEM SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE ARTICLE 760, CALIFORNIA FIRE CODE SECTION 907, AND THE 2022 EDITION OF THE NFPA 72. INSTALLATION OF THE SYSTEM SHALL NOT BEGIN UNTIL PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT, HAVE BEEN APPROVED BY THE CALIFORNIA STATE FIRE MARSHAL AND THE LOCAL FIRE AUTHORITY.

THE AUTOMATIC FIRE EXTINGUISHING SYSTEM IN THE KITCHEN HOOD IS A DEFERRED APPROVAL ITEM.

EMERGENCY RESPONDER RADIO COVERAGE SYSTEM (IF REQUIRED) IS A DEFERRED APPROVAL ITEM.

CONSTRUCTION TRAILER LAYOUT AND LOCATION IS DEFERRED APPROVAL ITEM AND WILL BE SUBMITTED BY CONTRACTOR.

SHEET IDENTIFICATION LEGEND

DISCIPLINE DESIGNATORS - LEVEL 1

G GENERAL
H HAZARDOUS MATERIALS
V SURVEY/MAPPING
B GEOTECHNICAL
C CIVIL
L LANDSCAPE
S STRUCTURAL
A ARCHITECTURAL
I INTERIORS
Q EQUIPMENT
F FIRE PROTECTION
P PLUMBING
D PROCESS
M MECHANICAL
E ELECTRICAL
W DISTRIBUTED ENERGY
T TELECOMMUNICATIONS
R RESOURCE
X OTHER DISCIPLINES
Z CONTRACTOR/SHOP DRAWINGS
O OPERATIONS

SHEET TYPE DESIGNATORS

0 - GENERAL
1 - PLANS
2 - ELEVATIONS
3 - SECTIONS
4 - LARGE SCALE VIEWS
5 - DETAILS
6 - SCHEDULES & DIAGRAMS
7 - USER DEFINED
8 - USER DEFINED
9 - 3D REPRESENTATIONS

C.A-123AB

- BUILDING IDENTIFIER - WHERE OCCURS
- DISCIPLINE DESIGNATOR - LEVEL 1
- DISCIPLINE DESIGNATOR - LEVEL 2 REPLACE DASH WHERE OCCURS
- SHEET TYPE DESIGNATOR
- SHEET TYPE SUBSET DESIGNATOR
- LEVEL/SEQUENCE DESIGNATOR
- AREA IDENTIFIER - WHERE OCCURS
- UNIQUE PORTION IDENTIFIER - WHERE OCCURS

Draft

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CONSULTANT

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LICENSED ARCHITECT MICHAEL J. DAVEY #27266 REN. 06-30-25 STATE OF CALIFORNIA

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ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
COVER SHEET - VOLUME 2

SHEET
G-001.1
V1

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IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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G-002 SHEET INDEX - VOLUME 1
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G-092 CALGREEN WORKSHEET
G-093 CALGREEN WORKSHEET
G-094 CALGREEN WORKSHEET
G-095 NRCC WORKSHEETS
G-911 EXTERIOR RENDERINGS
G-912 EXTERIOR RENDERINGS
GA401 LARGE SCALE VIEWS - SITE - ACCESSIBILITY PLAN
GA501 DETAILS - SITE - ACCESSIBILITY
GA511 ACCESSIBILITY REQUIREMENTS
GA512 ACCESSIBILITY REQUIREMENTS
GA513 ACCESSIBILTY SIGNAGE STANDARDS AND DETAILS
GB110 BSCC CODE ANALYSIS
GB111 BSCC CODE COMPLIANCE - FLOOR PLAN
GL021 FIRE HYDRANT FLOW TEST REPORT
GL101 FIRE LIFE SAFETY - SITE PLAN
GL110 CODE ANALYSIS
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GL503 UL LISTINGS - U419, Y710
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GL508 UL LISTINGS - HW-D-0218, HW-D-0440

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C-102 GRADING AND DRAINAGE PLAN
C-103 UTILITY PLAN
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C-106 UTILITY PROFILE WATER
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C-502 CIVIL DETAILS

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A-333 SECTIONS - WALL
A-334 SECTIONS - WALL
A-335 SECTIONS - WALL
A-336 SECTIONS - WALL
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Draft

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ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
SHEET INDEX - VOLUME 2

SHEET
G-002.1
V1

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DEFERRED SUBMITTAL NOTES

ENTIRE AUTOMATIC SPRINKLER SYSTEM AND FIRE ALARM SYSTEM ARE DEFERRED-APPROVAL ITEMS.

DEFERRED SUBMITTALS FOR THE PERMIT SHALL BE SUBMITTED BY GENERAL CONTRACTOR FOR FIRE SPRINKLER AND FIRE ALARM SYSTEMS INCLUDING ANY MECHANICAL, ELECTRICAL, AND PLUMBING MODIFICATIONS TO ACCOMMODATE THE FIRE SPRINKLER AND FIRE ALARM SYSTEMS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING LICENSED PROFESSIONALS AS REQUIRED TO DESIGN AND CONSTRUCT THE SYSTEMS INCLUDING PROVIDING SERVICES FOR THE PREPARATION OF DRAWINGS NECESSARY TO OBTAIN A REVIEW AND PERMIT APPROVAL FROM THE AUTHORITY HAVING JURISDICTION OVER THE PROJECT.

DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DESIGNATED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION.

DEFERRED SUBMITTAL SHALL INCLUDE COMPREHENSIVE ENGINEERING ANALYSIS BY A CALIFORNIA LICENSED FIRE PROTECTION ENGINEER USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED ON THESE DRAWINGS AND THE CONTENTS OF SECTION 21 10 00 & SECTION 28 31 00 (INCLUDING RELATED AND/OR REFERENCED REQUIREMENTS IDENTIFIED THEREIN). SUBMITTAL SHALL INCLUDE COMPLETE HYDRAULIC CALCULATIONS AND CUTSHEETS FOR MATERIALS AND PRODUCTS USED IN THE SYSTEM.

REFER TO SPECIFICATIONS SECTION 21 10 00 FOR DELEGATED DESIGN REQUIREMENT DETAILS.

ANCHORAGE & BRACING NOTES

1. SHOP DRAWINGS AND ENGINEERING CALCULATION FOR ANCHORAGE, SUPPORT, AND SEISMIC BRACING OF MECHANICAL EQUIPMENT, PIPING AND ETC NOT SHOWN ON DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. ALL SUBMITTALS SHALL BE SIGNED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CA.
2. ALL FIRE PROTECTION EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN ASCE 7-16 SECTION 13 AND WHEREVER MODIFIED BY 2022 CBC SECTION 1617A.
3. THE BRACING AND ATTACHMENTS TO STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPOVALS WITH AN OPA #, SUCH AS "MASON INDUSTRIES" (OPA 349) OR "ISAT" (OPA 486) AS MODIFIED TO SATISFY THE ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D. COPIES OF THE MANUAL SHALL BE ON THE JOBSITE PRIOR TO STARTING HANGING AND BRACING OF THE PIPE DISTRIBUTIONS SYSTEMS.
4. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT BRACE LOADS.

OFFICE OF THE STATE FIRE MARSHAL NOTES

1. SHOP DRAWING SUBMITTALS TO THE CSFM OFFICE FOR REVIEW SHALL INCLUDE A DETAILED SCOPE OF WORK DESCRIPTION FOR EACH BUILDING/SHEET.
2. SHOP DRAWINGS SHALL CLEARLY INDICATE THE POINT OF CONNECTION FOR SPRINKLER CONTRACTOR'S WORK (I.E. 6" ABOVE FINISHED FLOOR, ETC).
3. SPRINKLER PLANS SHALL BE APPROVED PRIOR TO THE INSTALLATION OF ANY PIPE. A STAMPED SET OF APPROVED AUTOMATIC FIRE SPRINKLER DRAWINGS SHALL BE ON THE JOB SITE & USED FOR INSTALLATION. ANY DEVIATION FROM THE APPROVED PLANS, INCLUDING THE SUBSTITUTION OF COMPONENTS, SHALL BE APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL. (OSFM).
4. THIS AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED, FABRICATED, AND INSTALLED IN ACCORDANCE WITH 2016 NFPA 13 WITH CA AMMENDMENTS.
5. ANY DISCREPANCIES BETWEEN THE DRAWING AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
6. A MINIMUM OF 72 HOURS NOTICE SHALL BE REQUIRED FOR ANY TESTING AND/OR INSPECTION.
7. ALL SPRINKLER PIPING SHALL REMAIN UNCOVERED UNTIL INSPECTED BY THE OSFM.
8. UPON COMPLETION OF THE AUTOMATIC FIRE SPRINKLER SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE OSFM.
9. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE OSFM UPON COMPLETION OF THE INSTALLATION.

FIRE SPRINKLER LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
AFS	AFS	AUTOMATIC FIRE SPRINKLER PIPING
	BFP/WM	BACKFLOW PREVENTOR/WATER METER
CSP	CSP	COMBINATION WET STAND PIPE AND AUTOMATIC SPRINKLER PIPING
	FDC	FIRE DEPARTMENT CONNECTION
	FH	FIRE HYDRANT
F	F	FIRE SPRINKLER PIPING
D	D	FIRE SPRINKLER PIPING DRAIN
	FSR	FIRE SPRINKLER RISER
	OS & Y	OUTSIDE STEM & YOKE VALVE
	PIV	POST INDICATOR VALVE
WSP	WSP	WET STAND PIPE
		UPRIGHT FIRE SPRINKLER HEAD
		PENDANT FIRE SPRINKLER HEAD
		SIDEWALL FIRE SPRINKLER HEAD
	(FA), (TA)	FROM ABOVE, TO ABOVE
	(FB), (TB)	FROM BELOW, TO BELOW

SPRINKLER SYSTEM DESIGN BASIS

BASIS OF DESIGN - SUPPLY PRESSURE

STATIC PRESSURE AVAILABLE IN SITE FIRE LOOP MAIN:	60 PSI (FIELD VERIFY)
RESIDUAL PRESSURE AVAILABLE IN SITE FIRE LOOP MAIN:	60 PSI (FIELD VERIFY)
BFP & SERVICE PRESSURE LOSSES:	10 PSI (DOWNSTREAM OF SITE FIRE LOOP)
RESIDUAL PRESSURE AVAILABLE AT RISER:	50 PSI
PRESSURE REQUIRED AT REMOTE SPRINKLER HEAD:	20 PSI

NOTE: CONTRACTOR SHALL OBTAIN FIRE WATER FLOW AND PRESSURE TEST DATED WITHIN 6 MONTHS OF PERMIT SUBMITTAL.

DESIGN WATER DEMAND

BASIS OF DESIGN SPRINKLER FLOW BASED ON DENSITY/AREA CURVES OF NFPA 13 - FIGURE 19.3.3.1.1:

ORDINARY HZ, GR-1*, 1500SF @ 0.15 GPM/FT2	= 250 GPM
HOSE STREAM ALLOWANCE**	= 250 GPM
TOTAL DESIGN WATER DEMAND	= 500 GPM

* ORDINARY HAZARD, GROUP 1 IS DRIVING DEMAND FOR FLOW DETERMINATION
** COMBINED HOSE STREAM FOR ORDINARY HAZARD 1

DELEGATED DESIGN REQUIREMENTS

ENTIRE AUTOMATIC FIRE SPRINKLER SYSTEM IS A DEFERRED APPROVAL ITEM. DESIGN SPRINKLER SYSTEM(S), INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED ON THESE DRAWINGS AND IN SECTION 21 10 00.

SPRINKLER SYSTEM DESIGN SHALL BE APPROVED BY THE STATE FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION PRIOR TO START OF INSTALLATION.

REFER TO SPECIFICATIONS SECTION 21 10 00 FOR DELEGATED DESIGN REQUIREMENT DETAILS.

FIRE PROTECTION NOTES

1. THE INSTALLING CONTRACTOR SHALL IDENTIFY A HYDRAULICALLY DESIGNED SPRINKLER SYSTEM WITH A PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC SIGN, SECURE WITH CORROSION-RESISTANT WIRE, CHAIN, OR OTHER APPROVED MEANS. SUCH SIGNS SHALL BE PLACED AT THE ALARM VALVE, DRY PIPE VALVE, PREACTION VALVE OR DELUGE VALVE SUPPLYING THE CORRESPONDING HYDRAULICALLY DESIGNED AREA. THE AREA SHALL INCLUDE THE FOLLOWING INFORMATION:
   A. LOCATION OF THE DESIGN AREA OR AREAS
   B. DISCHARGE DENSITIES OVER THE DESIGN AREA OR AREAS
   C. REQUIRED FLOW AND RESIDUAL PRESSURE DEMAND AT THE BASE OF THE RISER
   D. HOSE STREAM DEMAND INCLUDED IN ADDITION TO THE SPRINKLER DEMAND (2022 EDITION OF NFPA 13, SECTION 28.5 & 28.6)
2. A CABINET WITH A STOCK OF SPARE SPRINKLERS AND SPECIAL SPRINKLER WRENCH SHALL BE PROVIDED. LOCATION OF THE CABINET, NUMBER AND TYPE OF SPRINKLERS SHALL CONFORM TO NFPA 13, 2022 EDITION, SECTION 16.2.7.3.
3. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE EXACT LOCATIONS, SIZES AND ELEVATIONS OF ALL DUCTWORK, PIPING CONNECTIONS, OTHER WORK, ETC., PRIOR TO THE INSTALLATION OF ANY NEW WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS, TRANSITIONS, OFFSETS, ETC., TO AVOID DUCTWORK, PIPING, EQUIPMENT OR STRUCTURE AND TO MAKE A COMPLETE AND FUNCTIONING SYSTEM.
5. INSTALL ALL WORK TO CLEAR ARCHITECTURAL, STRUCTURAL MEMBERS AND MECHANICAL SYSTEMS. ADJUST PIPING AS NECESSARY. NO ITEM SUCH AS PIPE, ETC., SHALL BE IN CONTACT WITH ANY EQUIPMENT. INSTALL ALL PIPING AS HIGH AS POSSIBLE OR AS SPECIFIED ON DRAWINGS TO MAINTAIN MAXIMUM ACCESSIBILITY.
6. THE ENTIRE SYSTEM IS TO BE DESIGNED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE, LOCAL AND STATE FIRE MARSHAL REQUIREMENTS, THE LATEST EDITIONS OF THE NFPA CODES, AND ALL OTHER REGULATIONS THAT MAY APPLY.
7. INSTALLATION OF THE SPRINKLER SYSTEM SHALL NOT BE STARTED UNTIL COMPLETE PLANS AND SPECIFICATIONS, INCLUDING WATER SUPPLY INFORMATION HAVE BEEN APPROVED BY THE STATE FIRE MARSHAL AND ENGINEER OF RECORD. AT VARIOUS STAGES AND UPON COMPLETION, THE SYSTEM MUST BE TESTED IN THE PRESENCE OF THE STATE FIRE MARSHAL AND THE INSPECTOR OF RECORD.
8. ALL AREAS OUTLINED ON PLANS SHALL BE FIRE SPRINKLERED. SEE PLANS FOR LOCATIONS. REFER TO DIVISION 21 SPECIFICATION FOR A COMPLETE DESCRIPTION OF FIRE PROTECTION REQUIREMENTS.
9. THE LOCATIONS OF RISERS, FEED MAINS, CROSS MAINS AND BRANCH PIPING WHERE SHOWN ON THE DRAWINGS IS APPROXIMATE. FINAL LOCATION IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS.
10. ALL PIPING, HEADS, AND SPRINKLER WORK SHALL BE COORDINATED TO THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL WORK. PIPING SHALL BE CONCEALED, EXCEPT WHERE SO INDICATED OR WHERE ABSOLUTELY NECESSARY TO BE EXPOSED. EXPOSED PIPING SHALL BE PLACED AS APPROVED BY THE STATE FIRE MARSHAL PRIOR TO INSTALLATION.
11. IN GENERAL, HEADS SHALL BE SYMMETRICALLY LOCATED IN CENTER OF CEILING PANELS AND FULLY COORDINATED WITH CEILING OR SOFFIT LIGHT FIXTURES AND AIR CONDITIONING INLETS AND OUTLETS.
12. PROVIDE SPRINKLER HEADS AS REQUIRED ON TOP OF SHAFTS, AT ELEVATORS, UNDER STAIRWAYS, ETC.
13. PROVIDE SEMI-RECESSED HEADS IN OCCUPIED SPACES, PROVIDE PENDANT HEADS AT MECHANICAL SPACES AND EXPOSED SPACES.
14. SLEEVE EACH PIPE THRU CONCRETE SLABS AND SEAL WATERTIGHT. PROVIDE CEILING ESCUTCHEON AS REQUIRED. COORDINATE LOCATION OF ALL PIPE PENETRATIONS THRU CONCRETE SLABS WITH GENERAL CONTRACTOR.
15. FIRE SPRINKLER HYDRAULIC DESIGN DENSITY SHALL BE PER NFPA 13.
16. FOR EXPOSED AREAS PIPING SHALL RUN PARALLEL TO STRUCTURE AND BEAMS, AS HIGH AS POSSIBLE, CONCEAL ADJACENT TO BEAMS AND STRUCTURE WHEREVER POSSIBLE. PIPING SHALL BE EXPOSED, PAINTED. HEADS SHALL BE UPRIGHT AND/OR SIDEWALL, STANDARD BRONZE FINISH.
17. PROTECT PENETRATIONS OF RATED FIRE ASSEMBLIES IN ACCORDANCE WITH THE CBC AND DIVISION 7 SPECIFICATIONS.
18. NO PIPING SHALL BE INSTALLED IN OR OVER ANY ELECTRICAL OR DATA ROOMS OR OVER ELECTRICAL EQUIPMENT OTHER THAN TO SERVE HEADS WITHIN THE ROOM.
19. HILTI IS THE BASIS OF DESIGN FOR DETAILS 3/FP001 AND 4/FP001, ALTERNATE MANUFACTURERS WITH EQUAL PROMPTS MEETING DIV 7 SPECIFICATION REQUIREMENTS ARE ACCEPTABLE. ALTERNATE MANUFACTURER'S UL DETAILS SHALL BE SUBMITTED AND AVAILABLE AT THE JOBSITE.

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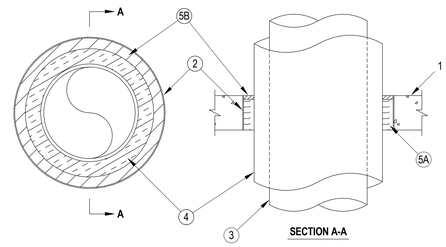
CLASSIFIED C UL US
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

System No. C-AJ-5091

F Rating — 2 Hr
T Ratings — 0 and 1 Hr (See Items 2 and 4)
L Rating At Ambient — 4 CFM/Sq Ft
L Rating At 400 F — Less Than 1 CFM/Sq Ft



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 29 in. (737 mm).
   See Concrete Blocks (CAZT) category in the Fire Resistance directory for names of manufacturers.
2. Metallic Sleeve — (Optional) — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall. If the steel sleeve extends beyond the top surface of the floor or both surfaces of the wall, the T Rating of the firestop system is 0 hr.
2A. Sheet Metal Sleeve — (Optional) - Max 6 in. (152 mm) diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.
2B. Sheet Metal Sleeve — (Optional) - Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approximately mid- height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.
3. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
4. Pipe Covering — Min 1/2 in. (13 mm) to max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all-service jacket. Longitudinal joints sealed with metal fasteners or factory-applied, self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between the insulated pipe and the edge of the periphery of the opening shall be min 1/2 in. (13 mm) to max 12 in. (305 mm). When thickness of pipe covering is less than 2 in. (51 mm), the T Rating for the firestop system is 0 hr.
   See Pipe Equipment Covering — Materials — (BRGU) category in the Building Materials Directory for names of manufacturers.
   Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4A. Pipe Covering — (Not Shown) — As an alternate to Item 4, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf or 224 kg/m³) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. The annular space shall be min 1/2 in. (13 mm) to max 12 in. (305 mm).
5. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

HILTI Hilti Firestop Systems

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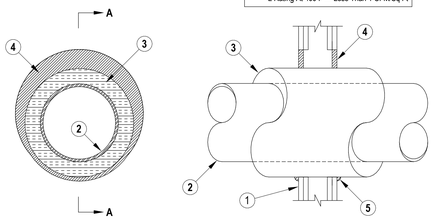
PIPE PENETRATION DETAIL (MASONRY)

SCALE : NONE — 4 / FP-001



SECTION A-A

1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
   B. Gypsum Board* — Min 5/8 in. (16 mm) thick with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).
   The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
   D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).
3. Pipe Covering* — Nom 1, 1-1/2 or 2 in. (25, 38 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Material Directory for the names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
   The hourly T, FT, FTH Ratings of the firestop system are 1/2 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1 hr. For 3 hr rated walls, the hourly T, FT and FTH Ratings when copper penetrants are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
3A. Pipe Covering* — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick cylindrical calcium silicate (min 14 pcf) units sized to the outside diam of the pipe or tube may be used. Pipe insulation secured with stainless steel bands or min 18 AWG stainless steel wire spaced max 12 in. (305 mm) OC. When the alternate pipe covering is used, the T and FT Rating shall be as specified in item 3 above.
   See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. Fill, Void or Cavity Material* — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

HILTI Hilti Firestop Systems

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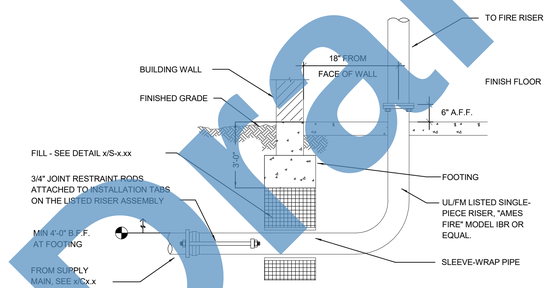
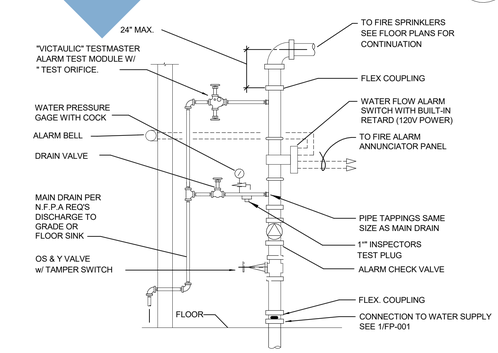
PIPE PENETRATION DETAIL (STUD)

SCALE : NONE — 3 / FP-001



FIRE WATER SERVICE ENTRANCE

SCALE : NONE — 1 / FP-001



WET PIPE FIRE SPRINKLER RISER

SCALE : NONE — 2 / FP-001

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210306.00 — PROJECT NO.

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FIRE SUPPRESSION LEGENDS & NOTES

SHEET
FX-001

V1

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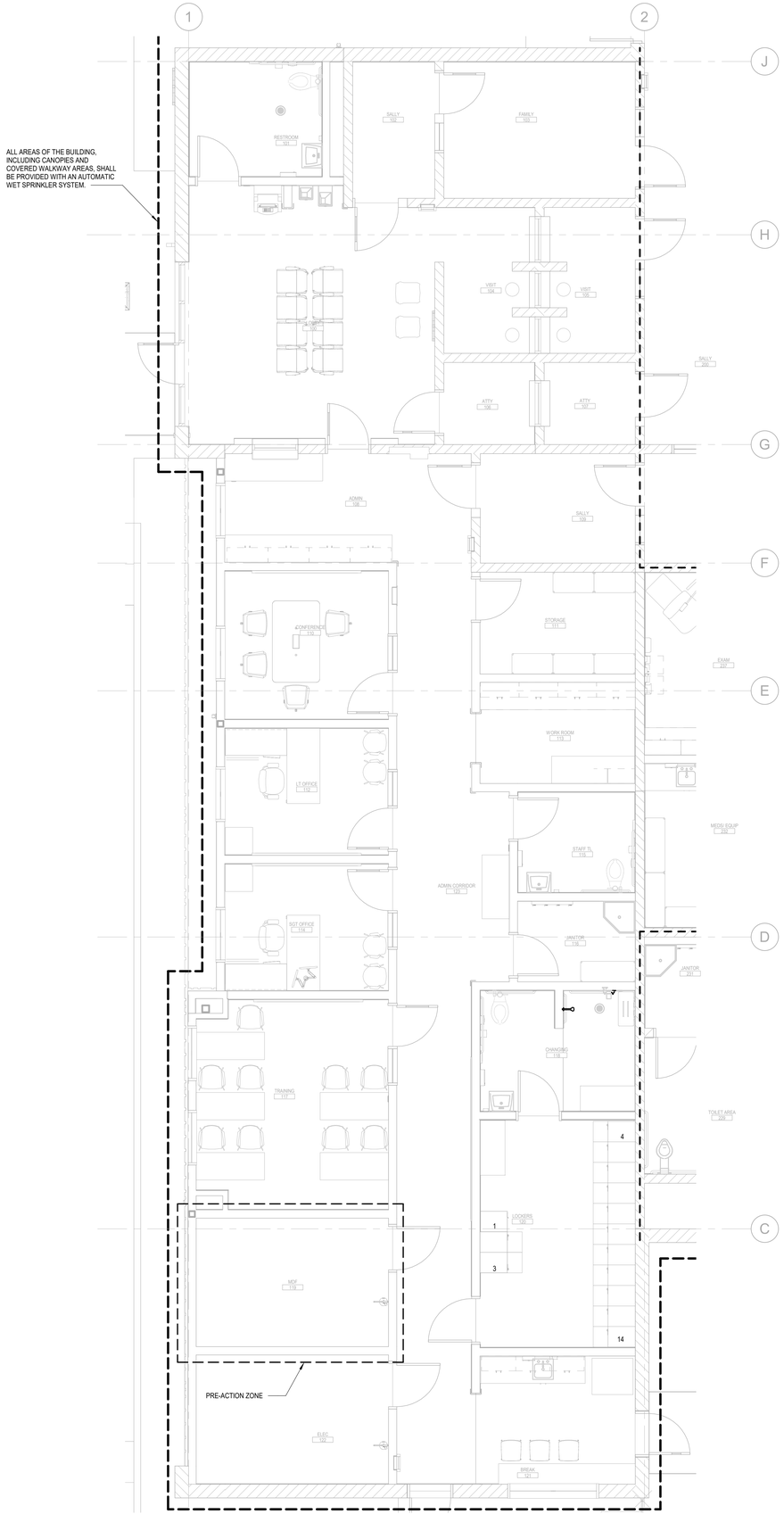
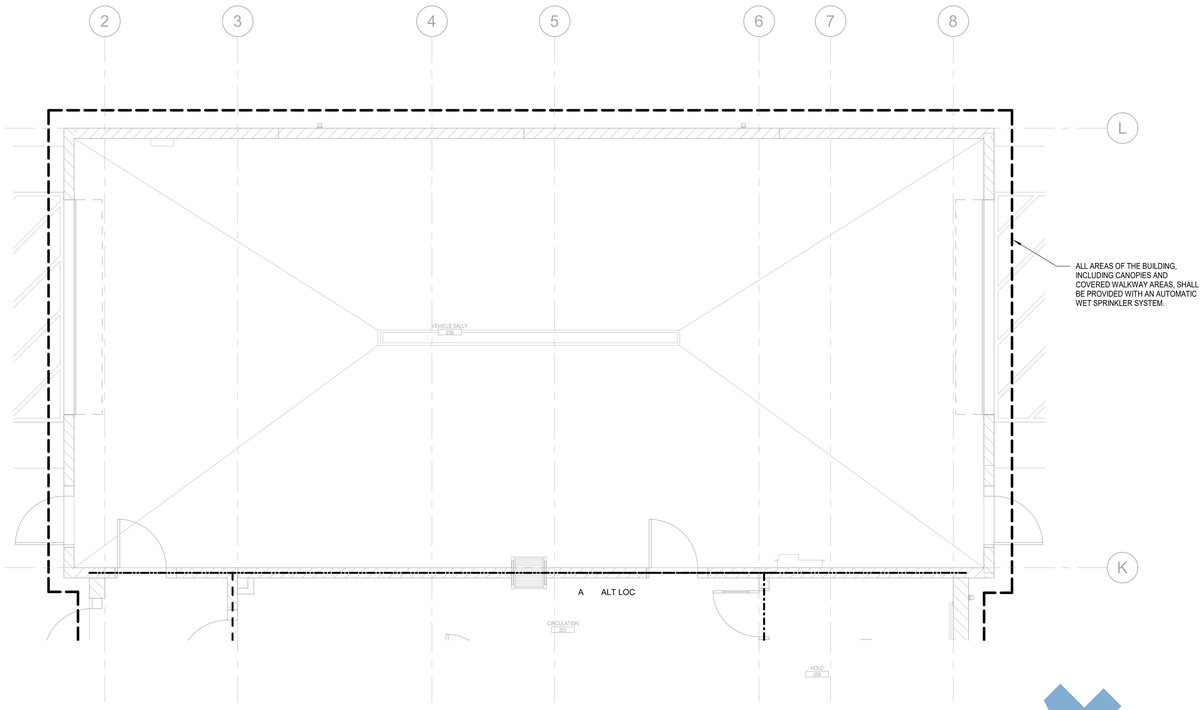


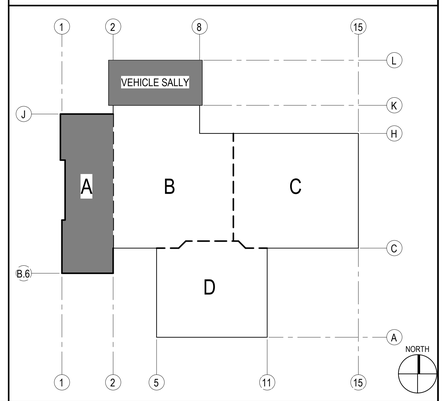
1 FX-201A FIRE SUPPRESSION FLOOR PLAN - LEVEL 1 - AREA A
SCALE: 1/4" = 1'-0"



2 FX-201A FIRE SUPPRESSION FLOOR PLAN - LEVEL 1 - VEHICLE SALLY
SCALE: 1/4" = 1'-0"

Draft

KEY PLAN



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FIRE SUPPRESSION FLOOR PLAN - LEVEL 1 - AREA A

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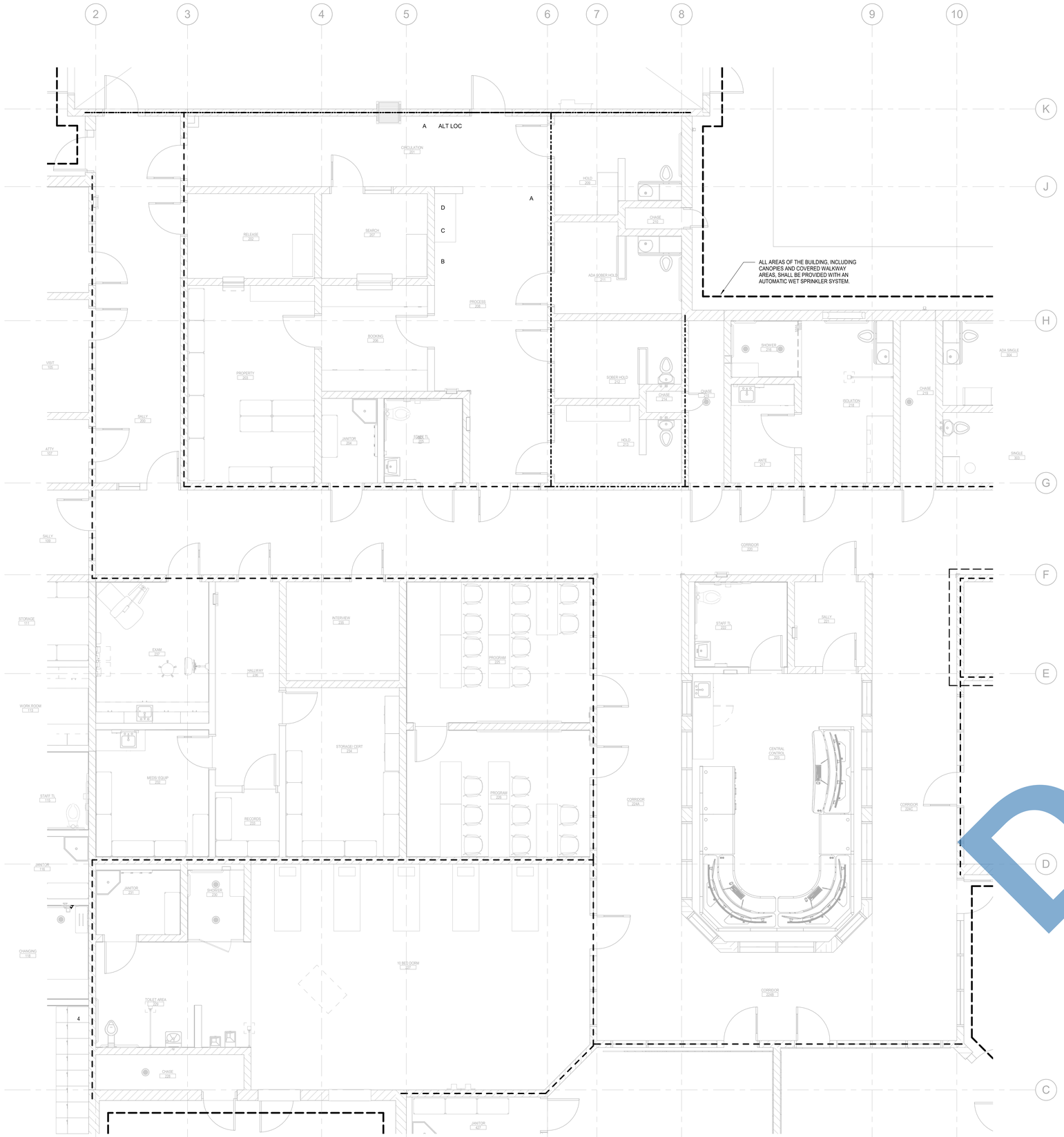

1 FX-201B FIRE SUPPRESSION FLOOR PLAN - LEVEL 1 - AREA B

SCALE: 1/4" = 1'-0"

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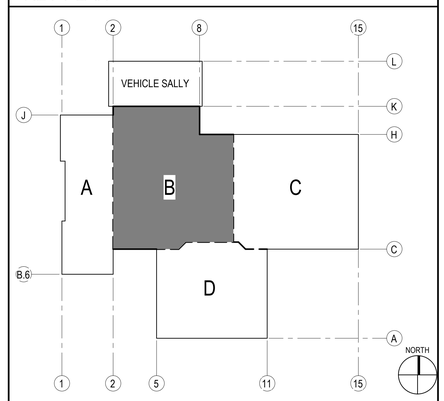
KEY PLAN



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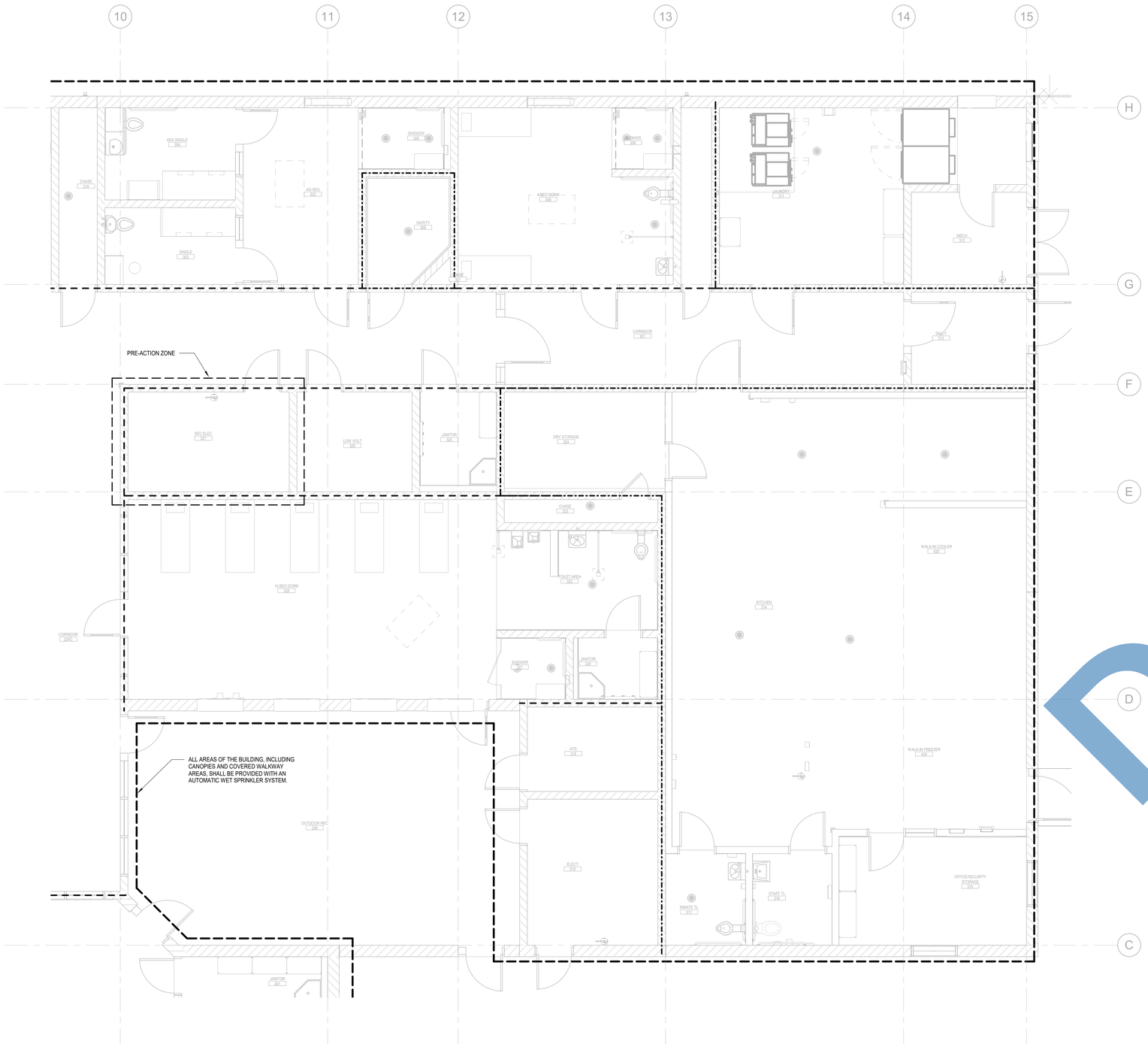

1 FX-201C FIRE SUPPRESSION FLOOR PLAN - LEVEL 1 - AREA C

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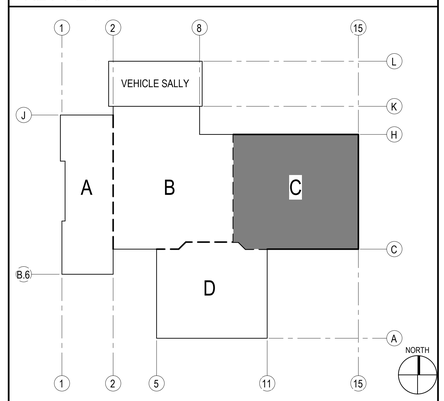

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FIRE SUPPRESSION FLOOR PLAN - LEVEL 1 - AREA C

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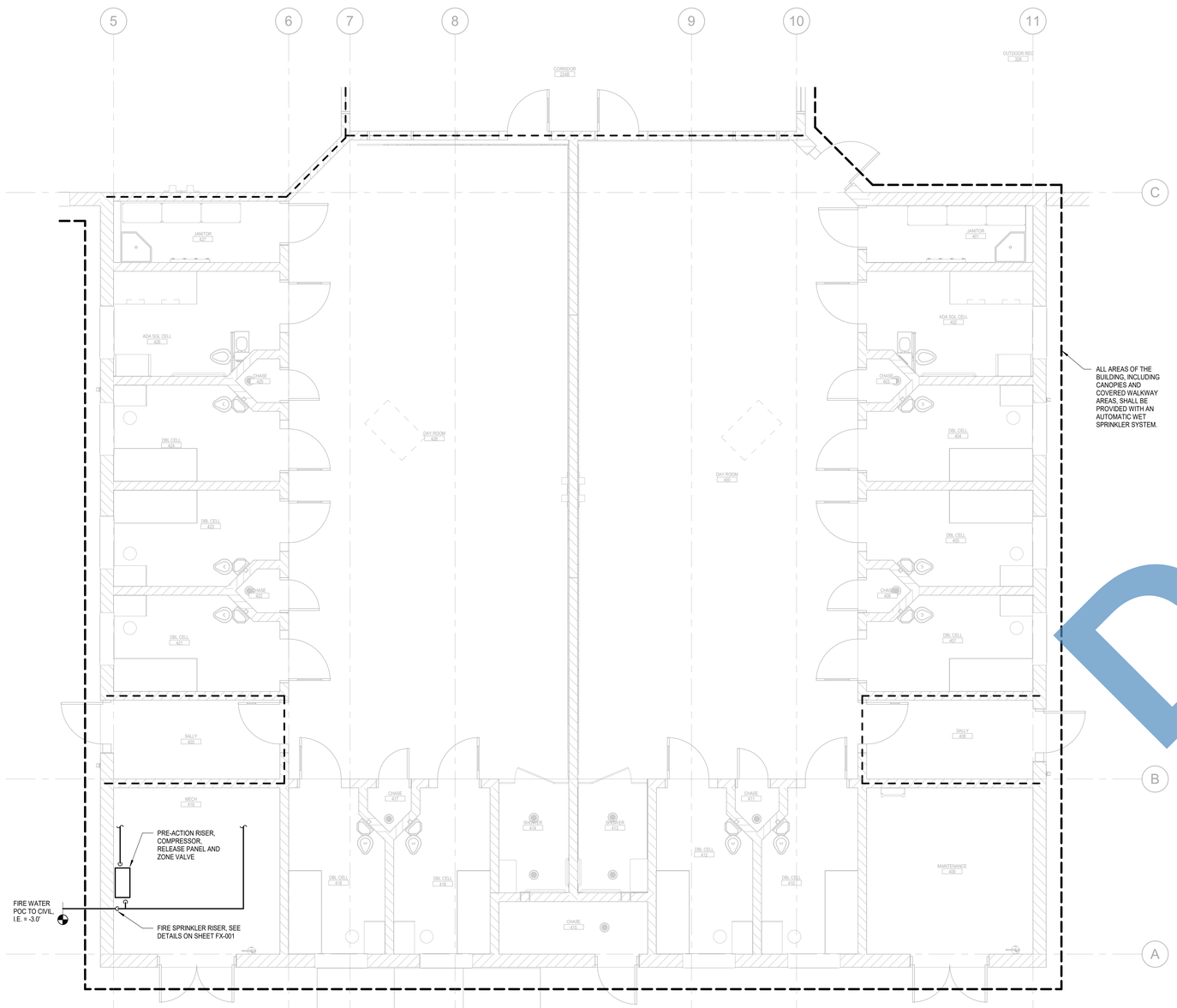

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SCALE: 1/4" = 1'-0"

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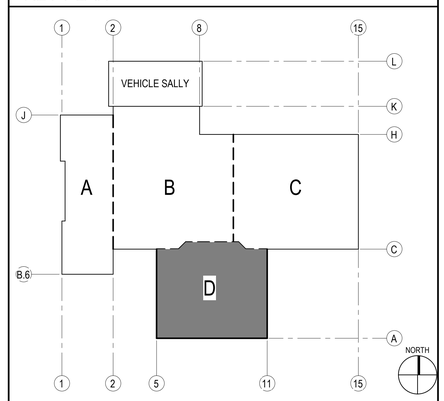

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SYMBOLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	---	3 WAY MODULATING CONTROL VALVE
	---	3 WAY TWO POSITION CONTROL VALVE
	---	3 WAY VALVE
	---	ANCHOR
	---	ANGLE GLOBE VALVE
	AVN	ANGLE VALVE
	AQ	AQUASTAT
	AD	AREA DRAIN
	---	AUTOMATIC AIR VENT
	---	AUTOMATIC FLOW CONTROL
	BFP, BP, DCW	BACKFLOW PREVENTER, REDUCE PRESSURE, DOUBLE CHECKVALVE
	---	BALANCING VALVE
	---	BALL JOINT
	---	BALL VALVE
	---	BOTTOM CONNECTION
	---	BUTTERFLY VALVE
BPT	BPT	BYPASS TIMER
	CBV	CALIBRATED BALANCE VALVE
	CB, RD	CATCH BASIN, ROOF DRAIN
	---	CHECK VALVE
	---	CIRCUIT SETTER VALVE
	CP	CIRCULATING PUMP
	CO	CLEANOUT
DS	DS	DYNAMIC SENSOR
	---	ECCENTRIC REDUCER
	EJ	EXPANSION JOINT
F	FD	FIRE DAMPER
	FDC	FIRE DEPARTMENT CONNECTION
	FHC	FIRE HOSE RACK AND CABINET
	FH	FIRE HYDRANT
FS	FS, FSD	FIRE/SMOKE DAMPER
	---	FLEXIBLE CONNECTOR
	---	FLOAT & THERMOSTATIC TRAP
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	---	FLOW ARROW
FE	---	FLOW ELEMENT
	FLV	FLOW LIMITING VALVE
FS	FS	FLOW SWITCH
	GCK	GAGE COCK

SYMBOLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	GSCK, PC	GAS COCK, PLUG COCK
	GM	GAS METER
	GPR	GAS PRESSURE REGULATOR
	---	GATE VALVE WITH HOSE ADAPTER
	---	GATE VALVE
	---	GLOBE VALVE
	HD	HOPPER DRAIN
	HB	HOSE BIBB
	HB	HOSE BIBB
H X	H	HUMIDISTAT
	---	INVERTED BUCKET TRAP
	---	LIMIT OF DEMOLITION
	---	MANUAL AIR VENT
	---	MODULATING CONTROL VALVE
	---	PIPE BREAK
	---	PIPE CAP
	---	PIPE DOWN
	---	PIPE GUIDE
	---	PIPE UP
	---	POINT OF CONNECTION
	PIV	POST INDICATOR VALVE
	PRV	PRESSURE REGULATING VALVE
	---	PRESSURE RELIEF VALVE
	---	REDUCER
SB	SB	SECURITY BARS
SD	SD	SMOKE DAMPER
SD	SKD	SMOKE DETECTOR
	---	SOLENOID VALVE
	---	STRAINER
TS X	TS	TEMPERATURE SENSOR
	---	TEST PLUG
	---	THERMOMETER
T X	T	THERMOSTAT
	---	TWO POSITION CONTROL VALVE
	---	UNION
	---	VALVE IN RISER/DROP
	VB	VALVE IN VALVE BOX
	---	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR
WM	WM	WATER METER

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
ABC	ABOVE CEILING
ABV	ABOVE
ACC DR	ACCESS DOOR
ACC P	ACCESS PANEL
ACU	AIR CONDITIONING UNIT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP, INCHES WATER COLUMN
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ATTEN	ATTENUATORS
ATV	ACOUSTIC TURNING VANE
BD	BALANCE DAMPER
BDD	BACK DRAFT DAMPER
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BOD	BOTTOM OF DUCT
BOR	BOTTOM OF REGISTER
BTUH	BRITISH THERMAL UNITS PER HOUR
CAP	CAPACITY
CD	CONDENSATE DRAIN
CEF	CEILING EXHAUST FAN
CFH	CUBIC FEET OF GAS PER HOUR
CFM	CUBIC FEET OF AIR FLOW PER MINUTE
CHV	CHECK VALVE
CLG	CEILING
CLR	CLEAR
CONC	CONCRETE
COND	CONDENSER
CONN	CONNECT/CONNECTION
CONT	CONTINUATION
CONTR	CONTRACTOR
D	DAMPER
DGP	DATA GATHERING PANEL
DIA	DIAMETER
DL	DOOR LOUVER
DN	DOWN
DSP	DRY STAND PIPE
DB	DRY BULB
DTR	DOWN THROUGH ROOF
DWG	DRAWING
EA	EXHAUST AIR
EAD	EXHAUST AIR DAMPER
EC	EVAPORATIVE COOLER
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATING
EF	EXHAUST FAN
EFF	EFFICIENCY
EH	EXHAUST HOOD
EL	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EVAP	EVAPORATOR
EW	ENTERING WATER
EWB	ENTERING WET BULB
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EXT	EXPANSION TANK
f	CUBIC FEET OF AIR FLOW PER MINUTE
F	DEGREES FAHRENHEIT
FA	FROM ABOVE
FB	FROM BELOW
FC	FLEXIBLE CONNECTION
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FF	FLY FAN
FIN	FINISH
FLA	FULL LOAD AMPS
FLR	FLOOR
FPM	FEET PER MINUTE
FS, FSD	FIRE AND SMOKE DAMPER
FT (')	FOOT OR FEET
FT^2	SQUARE FEET
FV	FACE VELOCITY
GA	GAUGE
GALV	GALVANIZED
GI	GALVANIZED IRON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HDG	HEAVY DUTY GRILLE
HP	HORSE POWER
HPS	HIGH PRESSURE STEAM
HTG	HEATING
HV	HAND VALVE
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ICF	INSTANTENEOUS CURRENT FLOW
IE	INVERT ELEVATION
IN, (")	INCH
IN^2	SQUARE INCHES
KEF	KITCHEN EXHAUST FAN
KW	KILOWATTS
LAV	LAVATORY
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LD	LOUVERED DOOR
LDB	LEAVING DRY BULB
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LTCP	LOCAL TEMPERATURE CONTROL PANEL
LVR	LOUVER
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	THOUSAND BTUs PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OV	OUTLET VELOCITY
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE/ PRESSURE REGULATING VALVE
PSI (G) (A)	POUNDS PER SQUARE INCH (GAUGE) (ABSOLUTE)
RA	RETURN AIR
RAD	RETURN AIR DAMPER
REF	ROOF EXHAUST FAN
RF	RETURN FAN
RPM	REVOLUTIONS PER MINUTE
RLA	RATED LOAD AMPS
RV	RELIEF VENTILATOR
S & R	SUPPLY AND RETURN
SA	SUPPLY AIR
SAD	SEE ARCHITECTURAL DRAWINGS
SB	SECURITY BARS
SD	SPLITTER DAMPER
SEER	SEASONAL ENERGY EFFICIENCY RATING
SF	SUPPLY FAN
SG	STEAM GENERATOR
SK	SINK
SM	SHEET METAL
SOV	SHUT OFF VALVE
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
SQ FT	SQUARE FEET
SQ IN	SQUARE INCHES
SS	STAINLESS STEEL
STR	STRAINER
STRUC	STRUCTURAL
TA	TO ABOVE
TB	TO BELOW
T.C.C.	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TCV	TEMPERATURE CONTROL VALVE
TEMP	TEMPERATURE
TFH	THERMAL FLUID HEATER
THK	THICK
TP	TOTAL PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UCD	UNDERCUT DOOR
UF	UNDERFLOOR
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
V (VTR)	VENT (VENT THROUGH ROOF)
VAC	VACUUM
VD	VOLUME DAMPER
VF	VENTILATION FAN
VFC	VARIABLE FREQUENCY CONTROLLER
VLV	VALVE
VRF	VARIABLE REFRIGERANT FLOW
VSD	VARIABLE SPEED DRIVE
VV	VARIABLE AIR VOLUME CONTROLLER
VVRH	VARIABLE AIR VOLUME CONTROLLER WITH REHEAT COIL
W	WATTS
WALL MTD (R)	WALL MOUNTED (RECESSED)
WB	WET BULB
WC	WATER CLOSET
WMS	WIRE MESH SCREEN
WP	WORKING PRESSURE
WPD	WATER PRESSURE DROP FEET OF WATER COLUMN
WT	WEIGHT

DUCT LEGEND

SINGLE LINE SYMBOL	DOUBLE LINE SYMBOL	DESCRIPTION
24x12	24x12	RECTANGULAR DUCT: WIDTH x DEPTH (PLAN VIEW) DEPTH x WIDTH (SECTION VIEW)
26x14L	26x14L	ACOUSTICALLY LINED RECTANGULAR DUCT - DIMENSIONS ARE OUTSIDE
		MANUAL AIR DAMPER
R or D	R or D	RISE OR DROP DUCT IN DIRECTION OF AIR FLOW
OR		RECTANGULAR TO RECTANGULAR TRANSISTION OR ROUND TO ROUND TRANSITION, MAX. SLOPE OF 1:3 RECTANGULAR TO ROUND TRANSITION, MAX. SLOPE OF 1:3
	W, R, $\frac{R}{W} = 1.5$	ELBOW, RECTANGULAR, SMOOTH RADIUS, WITHOUT TURNING VANES
		SQUARE/RECTANGULAR DUCT ELBOW WITH TURNING VANES
		CONVERGING OR DIVERGING TEE, 45° ENTRY, RECTANGULAR MAIN AND BRANCH. WHEN REDUCING MAIN, SIDE OF TAKE OFF OR ENTRY BRANCH TO BE FLAT, OTHER SIDES MAX. SLOPE OF 1:3
ROUND DUCT		ROUND DUCT TAKE OFF FROM RECTANGULAR VIA SMOOTH CONVERGING BELL MOUTH
		RECTANGULAR DUCT TEE MAD'S ON THE 2 BRANCHES, THROAT SIZED FOR EQUAL PRESSURE DROP
		RECTANGULAR DUCT SPLIT MAD'S, THROAT SIZED FOR EQUAL PRESSURE DROP
		3-WAY RECTANGULAR SPLIT WITH TWO TRANSITIONAL ELBOWS AND TRANSITIONING MAIN. DOWNSTREAM MAD'S OF THE TREE BRANCHES. THROATS SIZED FOR EQUAL PRESSURE DROP.
		FOR CONCEALED DUCT: DROP TO DIFFUSER SHALL BE FULL SIZE OF DIFFUSER NECK. IOR EXPOSED DUCT: DROP SHALL BE FULL SIZE OF OD DIFFUSER FRAME, FLANGE FOR MOUNTING DIFFUSER TURNED IN. AIR EXTRACTOR AND EQUALIZER GRID AT CONNECTION TO MAIN.
		SUPPLY AIR, SUPPLY DROP/RISE
		RETURN AIR, RETURN AIR DROP/RISE
		EXHAUST AIR, EXHAUST AIR DROP/RISE
		NEW - FLEXIBLE DUCT (ROUND)
OR		EXISTING - FLEXIBLE DUCT (ROUND)
10"Ø, 18"Ø, 12"Ø	10"Ø, 18"Ø, 12"Ø	45° REDUCING LATERAL FITTING
18"Ø, 10"Ø, 12"Ø	18"Ø, 10"Ø, 12"Ø	90° REDUCING TEE FITTING

MECHANICAL GENERAL NOTES

1. FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES, SEE ARCHITECTURAL REFLECTED CEILING PLANS.
2. LINE DUCTWORK FOR A MINIMUM OF 10'-0" DOWNSTREAM OF ROOF PENETRATIONS.
3. INSULATE AIR DUCTS EXPOSED TO THE OUTSIDE AND WITHIN BUILDINGS, SEE SPECIFICATIONS.
4. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES AND INDUSTRY STANDARDS.
5. COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THRU WALLS & ROOFS WITH ARCHITECTURAL DRAWINGS AND STRUCTURAL COMPONENTS PRIOR TO COMMENCING WORK.
6. FIRE/SMOKE DAMPERS SHALL BE PROVIDED AS REQUIRED BY 2022 CMC. FIRE/SMOKE DAMPERS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE STATE INSPECTOR. COORDINATE EXACT LOCATION OF CEILING OR WALL ACCESS PANELS WITH ARCHITECT.
7. ALL WALL AND ROOF OPENINGS SHALL BE IDENTIFIED ON SHOP DRAWINGS AND COORDINATED WITH STRUCTURAL REQUIREMENT.
8. PROVIDE AND INSTALL MANUAL AIR DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE SUPPLY DIFFUSER/REGISTER OR FROM A SINGLE RETURN OR EXHAUST REGISTER/GRILLE. COORDINATE EXACT LOCATION OF CEILING ACCESS PANEL FOR EACH MANUAL AIR DAMPER LOCATED IN A NON-DEMOUNTABLE CEILING AREA. PROVIDE MANUAL AIR DAMPER AS CLOSE TO BRANCH TAKE-OFF FROM MAIN DUCT AS POSSIBLE.

   FOR ALL MANUAL AIR DAMPERS LOCATED ABOVE DORMITORY CEILINGS, PROVIDE "MAT" ELECTRO-BALANCE REMOTE BALANCE DAMPER. ROUTE LINK WIRE FROM DAMPER TO ASSOCIATED ACCESS CHASE.
9. FOR ALL SHOWERS AND DAMPER AREAS PROVIDE STAINLESS STEEL GRILLES AND ALUMINUM DUCTS.
10. ALL NMATE ACCESSIBLE THERMOSTATIC SENSORS SHALL BE LOCATED IN RETURN OR EXHAUST DUCTS. WALL MOUNTED THERMOSTATS AND PRESSURE SENSORS SHALL BE PROVIDED WITH VANDAL-PROOF ENCLOSURES.
11. FOR ACCESS PANELS SEE REFLECTED CEILING PLANS. COORDINATE ALL ACCESS PANEL LOCATIONS WHETHER SHOWN OR NOT.
12. FLEXIBLE DUCTWORK CONNECTIONS TO CEILING DIFFUSERS SHALL BE LIMITED TO 5'-0" MAXIMUM LENGTH.
13. AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2,000 CFM TO ENCLOSED SPACES WITHIN BUILDINGS SHALL BE EQUIPPED WITH AN AUTOMATIC SHUTOFF. SHUTOFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT UPON DETECTION OF SMOKE IN THE MAIN SUPPLY AIR DUCT SERVED BY SUCH EQUIPMENT. SMOKE DETECTORS WHICH COMPLY WITH THE CALIFORNIA BUILDING CODE SHALL BE APPROVED AND LISTED BY THE STATE FIRE MARSHAL FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
    A. COMPLIANCE WITH 2022 CMC REQUIREMENTS OF SECTION 608 SHALL BE MET FOR ALL AIR CONDITIONING UNITS (ACS) AND AIR MOVING SYSTEMS WHERE THE AGGREGATE TOTAL OF SUPPLY AIR FOR THE COMBINED AREA SERVED EXCEEDS 2,000 CFM. SIMULTANEOUS SHUTDOWN OF ALL UNITS SUPPLY AREA SERVED SHALL OCCUR UPON ACTIVATION OF ANY SINGLE DUCT DETECTOR OR ACTIVATION METHOD (CSFM INTERPRETATIONS 02-024 AND 08-065).
    B. ALL AC/HVAC UNIT DUCT-SMOKE DETECTORS SHALL BE CONNECTED TO BUILDING FIRE ALARM PANEL TO INITIATE A SUPERVISORY SIGNAL UPON ACTIVATION, BE INTERCONNECTED AND SHALL SHUTDOWN ALL UNITS SIMULTANEOUSLY UPON ACTIVATION OF ANY ONE SINGLE DETECTOR.
    C. ALL AC/HVAC UNIT DUCT-SMOKE DETECTORS SHALL BE TESTED BY CALIBRATED MANOMETER PROVIDED BY THE INSTALLING CONTRACTOR TO INSURE AIR VOLUME AND VELOCITIES ARE WITHIN THE TOLERANCE SPECIFICATIONS OF THE RATINGS REQUIRED BY THE MANUFACTURER'S DATA ON EACH DUCT-SMOKE DETECTOR INSTALLED WITHING THE UNIT/DUCTWORK.
14. PENETRATIONS OF PIPES, CONDUITS, DUCTS, ETC., IN BUILDING ELEMENTS REQUIRING PROTECTED OPENINGS PER CBC SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL AND COMPLY WITH ASTM E814 OR UL 1479. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL WHICH SHOW COMPLETE CONFORMANCE AND SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED. THESE FINAL AND APPROVED DRAWINGS SHALL BE READILY AVAILABLE TO THE STATE INSPECTOR AT ALL TIMES AT THE PROJECT SITE. FOR THRU PENETRATIONS AT HORIZONTAL ASSEMBLIES, COMPLY WITH ASTM E119 OR UL 263.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN ASCE7-16 CHAPTERS 13, 29, AND 30, AND WHERE MODIFIED BY 2022 CBC CHAPTER 16.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF THAT DIRECTLY SUPPORT THE EQUIPMENT ARE TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, AND CBC 2022, SECTIONS 1616A.1.23, 1616A.1.24, 616A.1.25 AND 1616A.1.26.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #)

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING THE BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

Draft

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AGENCY

CONSULTANT

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PM - DESIGN TEAM PROJECT NO.

SEAL

REGISTERED PROFESSIONAL ENGINEER
KEVIN K. MCMANAMAN
M 33498
EXPIRES 9/30/24
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED:

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
HVAC LEGENDS & NOTES

SHEET
M-001

V1

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AIR CONDITIONING UNIT SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	LOCATION	CFM	MIN OA (CFM)	ESP (IN WG)	NOM. TONS	SENS COOLING CAP (MBH)	TOTAL COOLING CAP (MBH)	EVAP		GAS HEATING				ELECTRICAL DATA						SUPPLY FAN		POWER EXHAUST			EER	SEER (IEER)	OPER WT (LBS)	MOUNTING DETAIL	CONTROL DIAGRAM
										EDB (F)	EWB (F)	INPUT (MBH)	OUTPUT (MBH)	HTG EDB (F)	AFUE (%)	VOLT	PHASE	CIRCUIT 1		CIRCUIT 2		BHP	HP	VOLT/ PH	CFM	FLA					
																		MCA	MOP	MCA	MOP										
AC-1	JOHNSON CONTROLS	ZJ102N18G4	ROOF	2850	708	1.0	8.5	65.3	93.0	78.5	59.8	133.4	106.7	40	80	460	3	6.1	15	22.4	25	1.47	3	460/3	2850	2.2	12.0	(13.25)	1390	4/M-502	M-603
AC-2	JOHNSON CONTROLS	ZJ078N18G4	ROOF	2375	800	1.0	6.5	57.5	64.1	80.3	58.6	133.4	106.7	40	80	460	3	4.5	15	19.8	25	1.23	2	460/3	2375	2.2	11.8	(13.9)	1365	4/M-502	M-603
AC-3	JOHNSON CONTROLS	ZJ061N16D4	ROOF	2200	671	1.0	5	50.1	58.4	79.3	59.3	118.6	95.6	40	81	460	3	4.5	15	14.7	20	1.12	2	460/3	2200	2.2	12.2	14.5	1065	4/M-502	M-603
AC-4	JOHNSON CONTROLS	ZJ049N12D4	ROOF	1700	652	1.0	4	40.5	47.0	80.4	59.8	88.9	71.9	40	81	460	3	3.5	15	13.9	20	0.95	1.5	460/3	1700	2.2	12.2	15	1045	4/M-502	M-603
AC-5	JOHNSON CONTROLS	ZJ037N12D4	ROOF	1075	200	1.0	3	22.4	33.0	77.6	60.3	88.9	71.9	40	81	460	3	3.5	15	11.4	15	0.62	1.5	460/3	575	2.8	12.2	14.5	1005	4/M-502	M-603
AC-6	JOHNSON CONTROLS	ZJ061N16D4	ROOF	1650	850	1.0	5	48.8	49.9	82.2	57.4	118.6	95.6	40	81	460	3	4.5	15	14.7	20	0.83	2	460/3	1650	1.6	12.2	14.5	1065	4/M-502	M-603
AC-7	JOHNSON CONTROLS	ZJ061N16D4	ROOF	1825	925	1.0	5	51.5	53.5	81.9	57.7	118.6	95.6	40	81	460	3	4.5	15	14.7	20	0.93	2	460/3	1825	2.2	12.2	14.5	1065	4/M-502	M-603
AC-8	JOHNSON CONTROLS	ZJ049N12D4	ROOF	1200	200	1.0	4	40.5	47.0	80.4	59.8	88.9	71.9	40	81	460	3	3.5	15	13.9	20	0.95	1.5	460/3	1700	2.2	12.2	15	1005	4/M-502	M-603

NOTES:

1. PROVIDE WITH MANUFACTURER'S ROOF CURB.
2. PROVIDE WITH MODULATING POWER EXHAUST ECONOMIZER WITH DEDICATED ELECTRICAL CONNECTION.
3. PROVIDE WITH 4" MERV 13 FILTER.
4. PROVIDE UNIT WITH SPLIT CIRCUIT POWER. CIRCUIT #1 SHALL BE CONNECTED TO EMERGENCY STANDBY POWER, CIRCUIT #2 SHALL BE CONNECTED TO NON-EMERGENCY POWER.
5. ALL PIPING CONNECTIONS TO BE THRU CURB.
6. DISCONNECTS SHALL BE FIELD-INSTALLED BY DIV 26
7. PROVIDE UNINTERRUPTIBLE POWER SUPPLY ON INTEGRAL UNIT CONTROLLERS
8. PROVIDE UNITS WITH PROPANE BURNER KIT

DIFFUSER, REGISTER & GRILLE SCHEDULE

SYMBOL	DESCRIPTION	TITUS	PRICE	METALAIR	KRUEGER	ANEMOSTAT
CD	MODULAR CORE SURFACE MOUNT CEILING DIFFUSER FLAT FRAME	MCD BORDER TYPE 1	SMCD-FRAME1	9000-1	1240 FRAME 22	-
CDL	MODULAR CORE LAY-IN CEILING DIFFUSER FOR T-BAR CEILING 24x24 PANEL	MCD BORDER TYPE 3	SMCD-FRAME 3P	9000-6P	1240 FRAME 23	-
CR, CE	CEILING RETURN WITH 1/2" x 1/2" x 1" EGG CRATE CORE, SURFACE MOUNT	MODEL 50 F BORDER TYPE 1	80	CC5D	EGC-5	-
CRL, CEL	CEILING RETURN WITH 1/2" x 1/2" x 1" EGG CRATE CORE, IN 24x24 PANEL FOR T-BAR CEILING	MODEL 50 F BORDER TYPE 3	80 - TBP	CC5D-TBD	EGC-5TB	-
RSS & ESS	CEILING RETURN WITH 1/2" x 1/2" x 1" EGG CRATE CORE, SURFACE MOUNT, STAINLESS STEEL CONSTRUCTION	50R-SS	-	-	-	-
R & E	RETURN OR EXHAUST GRILLE WITH 35° OR 45° HORIZONTAL BARS.	350 RL	530L	SRH	S 80 H	-
SS-1, SR-1, SE-1	MAXIMUM SECURITY SUPPLY, RETURN, OR EXHAUST GRILLE WITH ALL STEEL WELDED CONSTRUCTION, 3/16" PERFORATED FACE PLATE WITH 3/16" HOLES ON 9/32" STAGGERED CENTERS, 10 GAUGE STEEL SLEEVE CONT. WELD TO FACE PLATE, 1" x 1" x 3/16" STEEL LOCKING WELDED ANGLES	SG-PR	MSRRP	-	-	ASSG-RR
SS-2, SR-2, SE-2	MEDIUM SECURITY DIFFUSER SUPPLY, RETURN, OR EXHAUST GRILLE WITH SINGLE DEFLECTION, 10 GAUGE X 1/2" STEEL MESH WIRE SECURED BEHIND FACE BARS.	SG-3300RL	MSSL	-	-	HD35-MS
SS-3, SR-3, SE-3	MAXIMUM SECURITY SUPPLY, RETURN, OR EXHAUST GRILLE WITH ALL STAINLESS STEEL WELDED CONSTRUCTION, 3/16" PERFORATED FACE PLATE WITH 3/16" HOLES ON 9/32" STAGGERED CENTERS, 10 GAUGE STAINLESS STEEL SLEEVE CONT. WELD TO FACE PLATE, 1" x 1" x 3/16" STAINLESS STEEL LOCKING WELDED ANGLES	SG-PR	MSRRP	-	-	ASSG-RR
S	DOUBLE DEFLECTION, HEAVY DUTY SUPPLY GRILLE WITH HORIZONTAL FRONT BARS	300 RL-HD	920-L	-	4880	-
RH & EH	HEAVY DUTY RETURN OR EXHAUST GRILLE WITH 35° OR 45° HORIZONTAL BARS	33 RL	-	HDRH	S 480 H	-
SDS	DOUBLE DEFLECTION SUPPLY GRILLE WITH RADIUS ENDCAPS, 3/4" SPACING	S300FL	-	-	-	-

NOTES:

1. ALL SYMBOLS NOTED MAY NOT BE USED. REFER TO PLANS FOR SIZE AND QUANTITY.
2. ALL SUPPLY AIR DIFFUSERS ARE 4 WAY BLOW UNLESS SHOWN OTHERWISE.
3. FURNISH ALL PRODUCTS OF A SINGLE MANUFACTURER.
4. COORDINATE DIFFUSER TYPE WITH REFLECTED CEILING PLAN.
5. OPPOSED BLADE DAMPERS ARE NOT REQUIRED AT DIFFUSERS, REGISTERS OR GRILLES.
6. PROVIDE MANUAL AIR DAMPERS AT EACH BRANCH DUCT TO A SINGLE DIFFUSER, REGISTER OR GRILLE. WHERE DAMPERS WOULD BE LOCATED IN AN INACCESSIBLE OR SECURED LOCATION, PROVIDE REMOTE VOLUME DAMPER WITH CABLE AND ACCESS PANEL IN A NEARBY NON-SECURED LOCATION.
7. FOR MOUNTING OF SECURITY DIFFUSERS/REGISTERS/GRILLES, SEE DETAILS 6/M-501, 9/M-501 & 10/M-501. FOR MOUNTING OF NON-SECURITY DIFFUSERS/REGISTERS/GRILLES, SEE 4/M-501.

MAKE UP AIR UNIT

EQUIPMENT TAG_NEW	MFR	MODEL NO	LOCATION	AREA SERVED	AIR FLOW (CFM)	ESP (IN WG)	GAS HEATING					ELECTRICAL DATA						OPER WT (LBS)	MOUNTING DETAIL	CONTROL DIAGRAM
							INPUT (MBH)	OUTPUT (MBH)	T.E. (%)	EAT (F)	LAT (F)	HP	BHP	VOLT/PH	MCA	MOP	FLA			
MAU-1	REZNOR	RDH-400A	ROOF	KITCHEN	2800	0.50	343	278	81	-20	52	3	1.86	460/3	13.15	20	10.52	1800	6/M-502	M-602

NOTES:

1. INTERLOCK WITH KEF-1 AND EXHAUST HOOD BY TEMPERATURE CONTROLS CONTRACTOR

FURNACE SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	APD (IN WG)	GAS HEATING					ELECTRICAL DATA					OPER WT (LBS)	MOUNTING DETAIL	CONTROL DIAGRAM
				INPUT (MBH)	OUTPUT (MBH)	AFUE (%)	EAT (F)	LAT (F)	VOLT	PHASE	FLA	MCA	MOCP			
F-1	REZNOR	SC-150	0.35	111.25	89	80	52	75	115	1	1.9	0	0	250	11/M-502	

SPLIT SYSTEM INDOOR UNIT SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	NOMINAL TONS	AIR FLOW (CFM)	COOLING CAP. (BTUH)	HEATING CAP. (BTUH)	FILTER (MERV RATING)	ELECTRICAL				OPER WT (LBS)	MOUNTING DETAIL	CONTROL DIAGRAM
								VOLT	PHASE	POWER (W)	FLA			
SHP-1	YORK	DHP36NWB21S	3	0	33,600	34,600		208	1	0	0	65	2/M-501	M-602
SHP-2	YORK	DHX24NWB21S	2	0	22,000	23,000		208	1	60	0.38	50	2/M-501	M-602
SHP-3	YORK	DHX24NWB21S	2	0	22,000	23,000		208	1	60	0.38	50	2/M-501	M-602

SPLIT SYSTEM OUTDOOR UNIT SCHEDULE

EQUIPMENT TAG	MFR	MODEL NO	HEAT (BTUH)	COOLING (BTUH)	ELECTRICAL DATA							SEER (EER)	HSPF	OPER WT (LBS)	MOUNTING DETAIL	CONTROL DIAGRAM
					VOLT	PHASE	MCA	MOCP	FAN		COMP RLA					
									W	RLA						
SCU-1	YORK	DHP36CSB21S	34600	33600	208	1	24	40	0	0.00	0	18 (8.2)	9	200	5/M-501	M-602
SCU-2	YORK	DHX24CSB21S	23000	22000	208	1	20	30	92	0.65	11.5	20 (12.5)	10	180	5/M-501	M-602
SCU-3	YORK	DHX24CSB21S	23000	22000	208	1	20	30	92	0.65	11.5	20 (12.5)	10	180	5/M-501	M-602

FAN SCHEDULE

EQUIPMENT TAG	MANUFACTURER	MODEL NO	CFM	SP (IN WG)	DUTY	STYLE	RPM	HP	BHP	PHASE	VOLT	OPER WT (LBS)	MOUNTING DETAIL	CONTROL DIAGRAM
EF-1	GREENHECK	CUE-099-VG	375	0.400	EXHAUST	ROOF	1142	1/4	0.05	1	115	70	14/M-501	M-603
EF-2	GREENHECK	CUE-095-VG	225	0.100	EXHAUST	ROOF	716	1/6	0.01	1	115	65	14/M-501	M-603
EF-3	GREENHECK	CUE-140HP-VG	825	0.600	EXHAUST	ROOF	1343	1/4	0.16	1	115	110	14/M-501	M-603
EF-4	GREENHECK	CUE-099-VG	375	0.400	EXHAUST	ROOF	1142	1/4	0.05	1	115	70	14/M-501	M-603
EF-5	GREENHECK	USF-10	500	0.500	ISOLATION EX	UTILITY	1185	1/4	0.07	1	115	100	13/M-501	M-603
EF-6	GREENHECK	CUE-140-VG	850	0.750	EXHAUST	ROOF	1217	1/2	0.21	1	115	115	14/M-501	M-603
EF-7	GREENHECK	CUE-140-VG	850	0.750	EXHAUST	ROOF	1217	1/2	0.21	1	115	115	14/M-501	M-603
EF-8	GREENHECK	CUE-160-VG	2500	0.500	EXHAUST	ROOF	1120	3/4	0.43	1	115	125	14/M-501	M-603
KEF-1	GREENHECK	CUE-180-VG	2900	1.000	KITCHEN EX	ROOF	1291	2	1.05	1	208	180	14/M-501	M-603

NOTES:

1. CONTROL EF-1 THRU EF-8 WITH PROGRAMMABLE SCHEDULE VIA BMS.
2. CONTROL KEF-1 VIA INTERLOCK WITH EXHAUST HOOD AND MAKE-UP AIR UNIT BY TEMPERATURE CONTROLS CONTRACTOR

GAS RADIANT HEATER SCHEDULE

EQUIPMENT TAG	LOCATION	MANUFACTURER	MODEL	LENGTH	TUBE DIAMETER	GAS INPUT [MBH]	ELEC DATA		OPER. WT. [LBS.]
							VOLT	PHASE	
RH-1	VEHICLE SALLY	DETROIT RADIANT PRODUCTS	HL3-20-75	21' - 9"	4"	75	120	1	120
RH-2	VEHICLE SALLY	DETROIT RADIANT PRODUCTS	HL3-20-75	21' - 9"	4"	75	120	1	120
RH-3	VEHICLE SALLY	DETROIT RADIANT PRODUCTS	HL3-20-75	21' - 9"	4"	75	120	1	120
RH-4	VEHICLE SALLY	DETROIT RADIANT PRODUCTS	HL3-20-75	21' - 9"	4"	75	120	1	120

MISC. MECHANICAL EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
IV 1	**INTAKE VENT** "GREENHECK" ALUMINUM GRAVITY VENTILATOR. 30" x 30" BASE, 2.25 FT^2 THROAT AREA. PROVIDE MANUFACTURER'S 8" ROOF CURB. MOUNTING DETAIL: 14/M-501 (SIMILAR) OPERATING WEIGHT: 50 LBS.

Draft

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TITLE
HVAC SCHEDULES

SHEET
M-002

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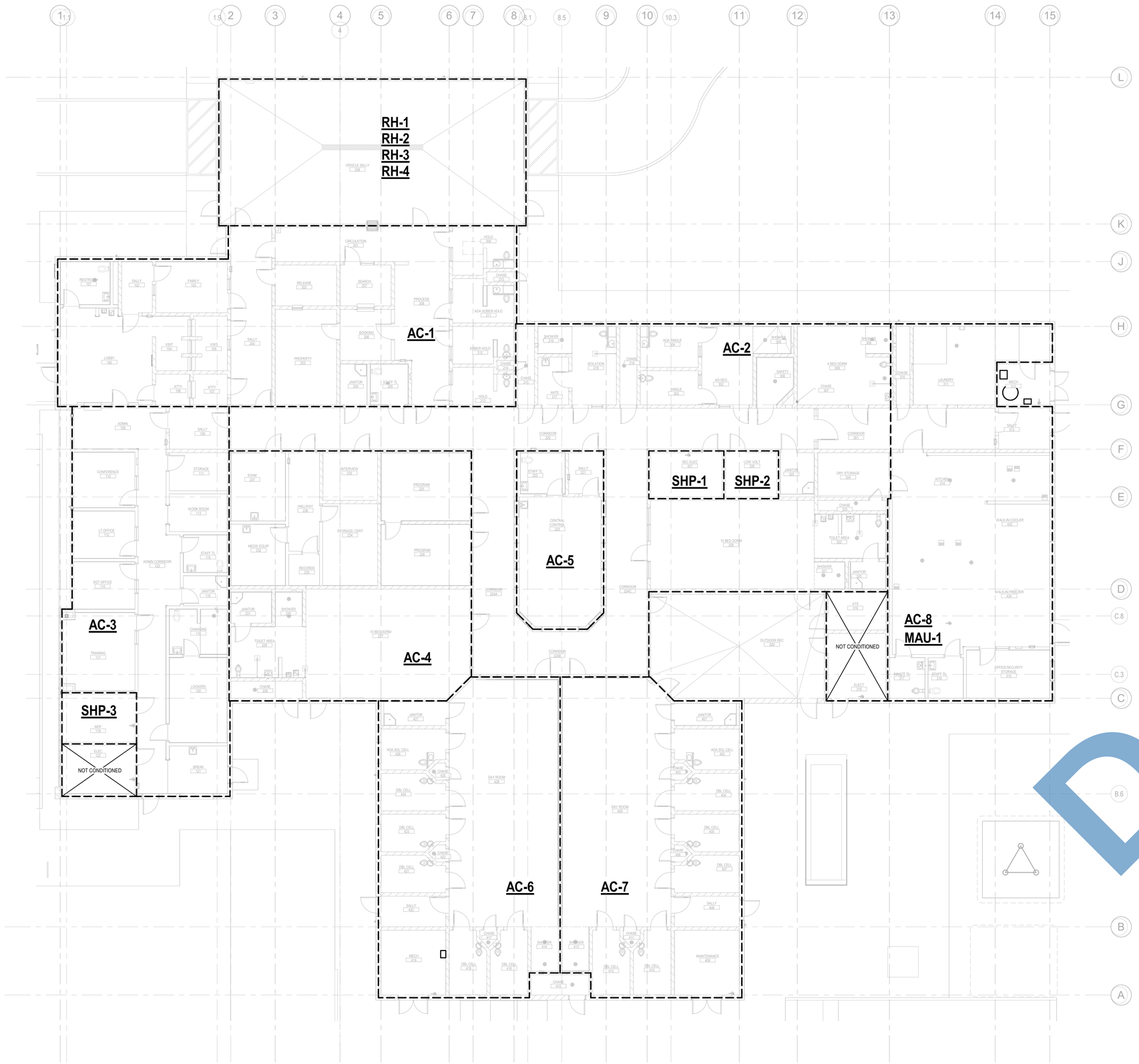
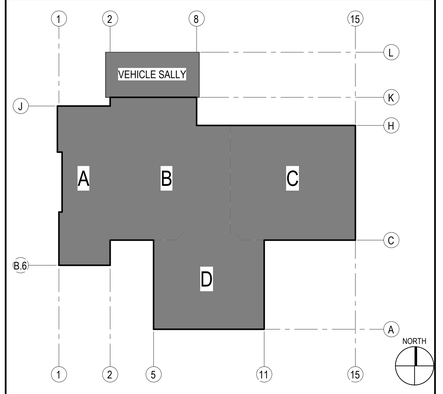


1 M-101 HVAC ZONING PLAN - LEVEL 1 - OVERALL

SCALE: 1/8" = 1'-0"

Draft

KEY PLAN



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TITLE
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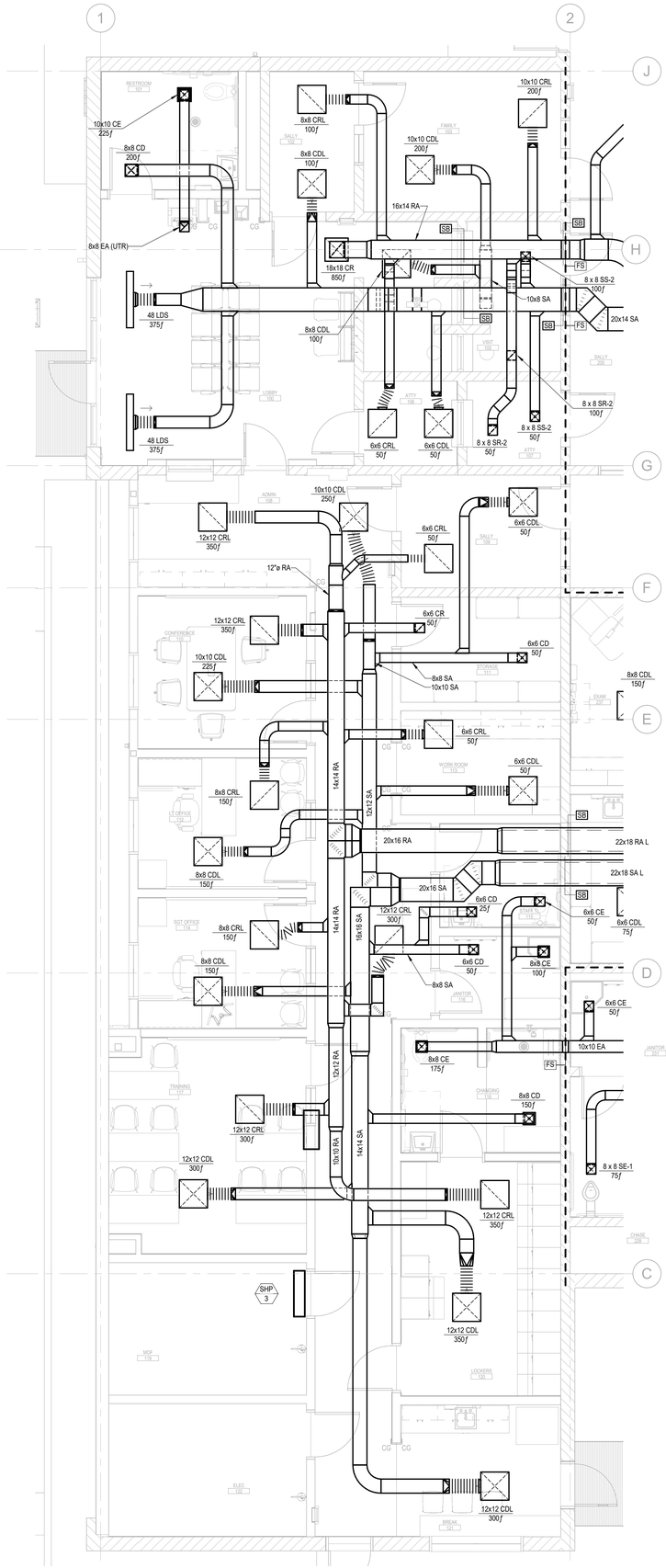
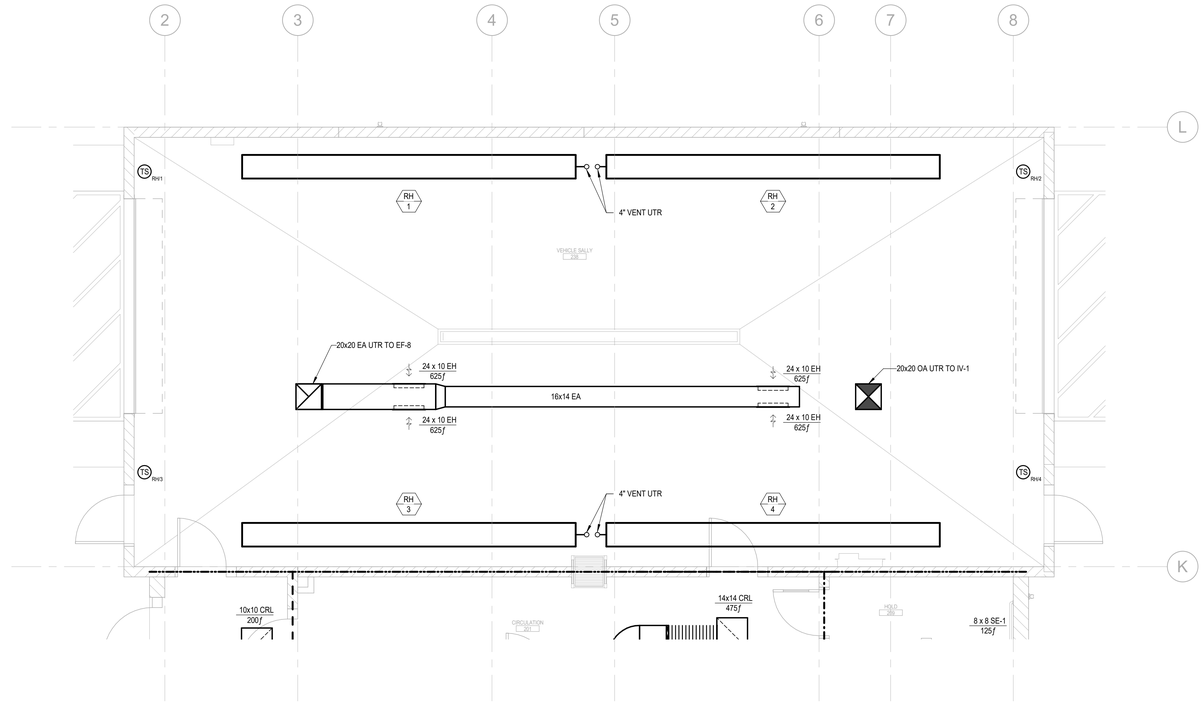


1 M-201A HVAC FLOOR PLAN - LEVEL 1 - AREA A

SCALE: 1/4" = 1'-0"

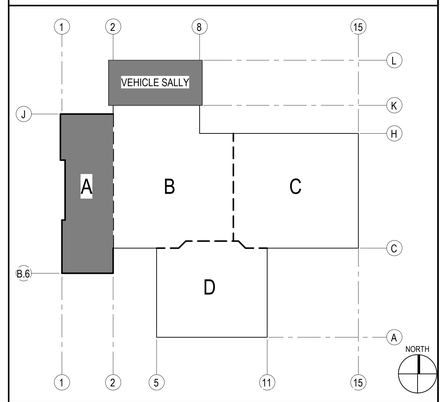


2 M-201A HVAC FLOOR PLAN - LEVEL 1 - VEHICLE SALLY

SCALE: 1/4" = 1'-0"

Draft

KEY PLAN



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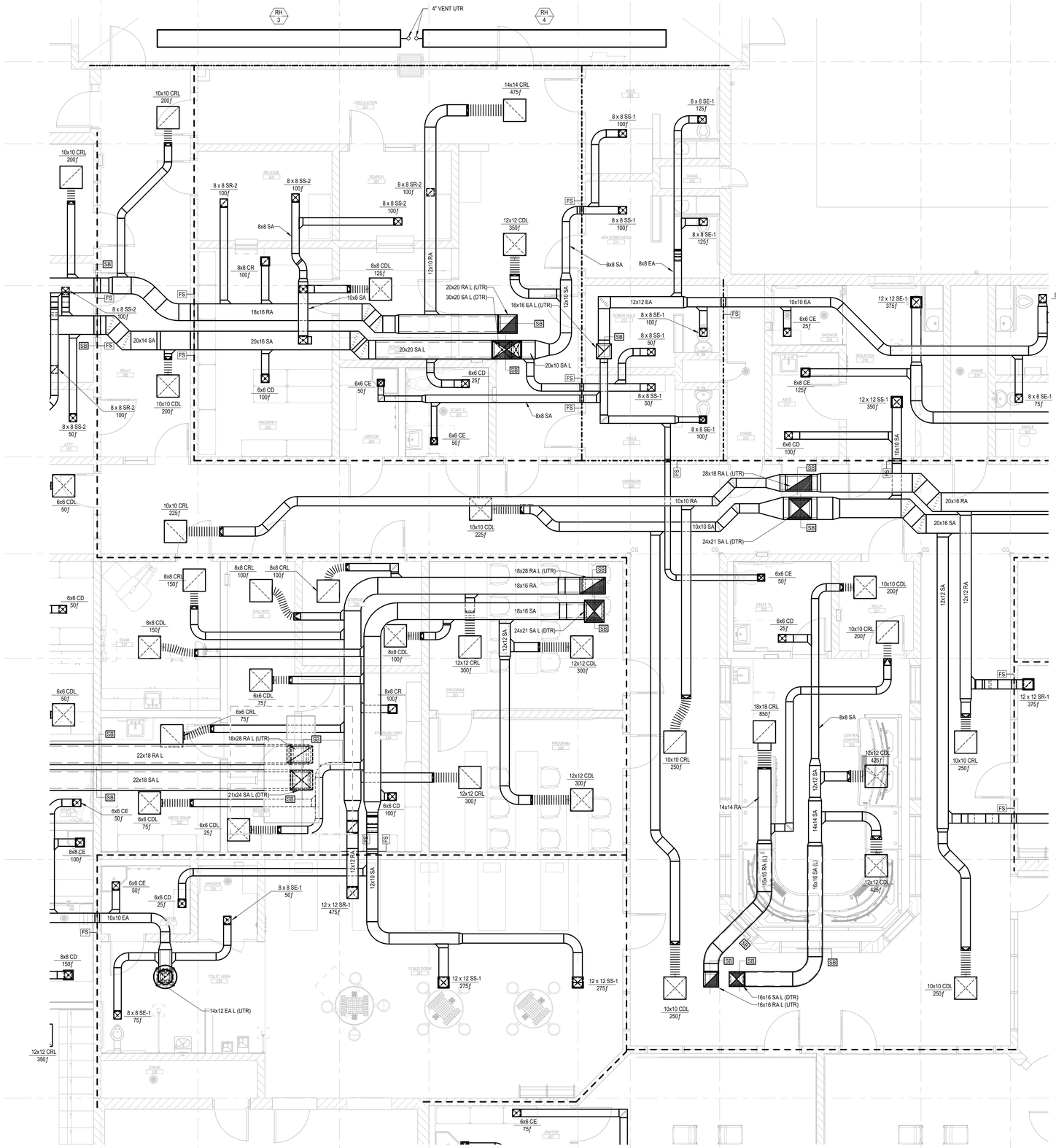
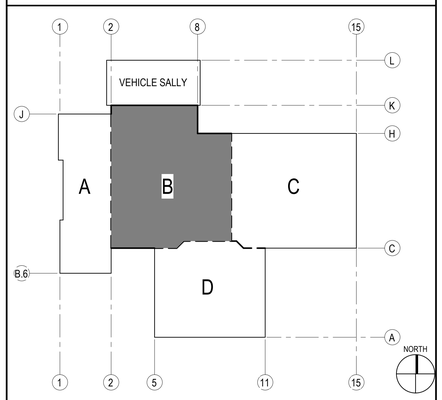


1 M-201B HVAC FLOOR PLAN - LEVEL 1 - AREA B

SCALE: 1/4" = 1'-0"

Draft

KEY PLAN



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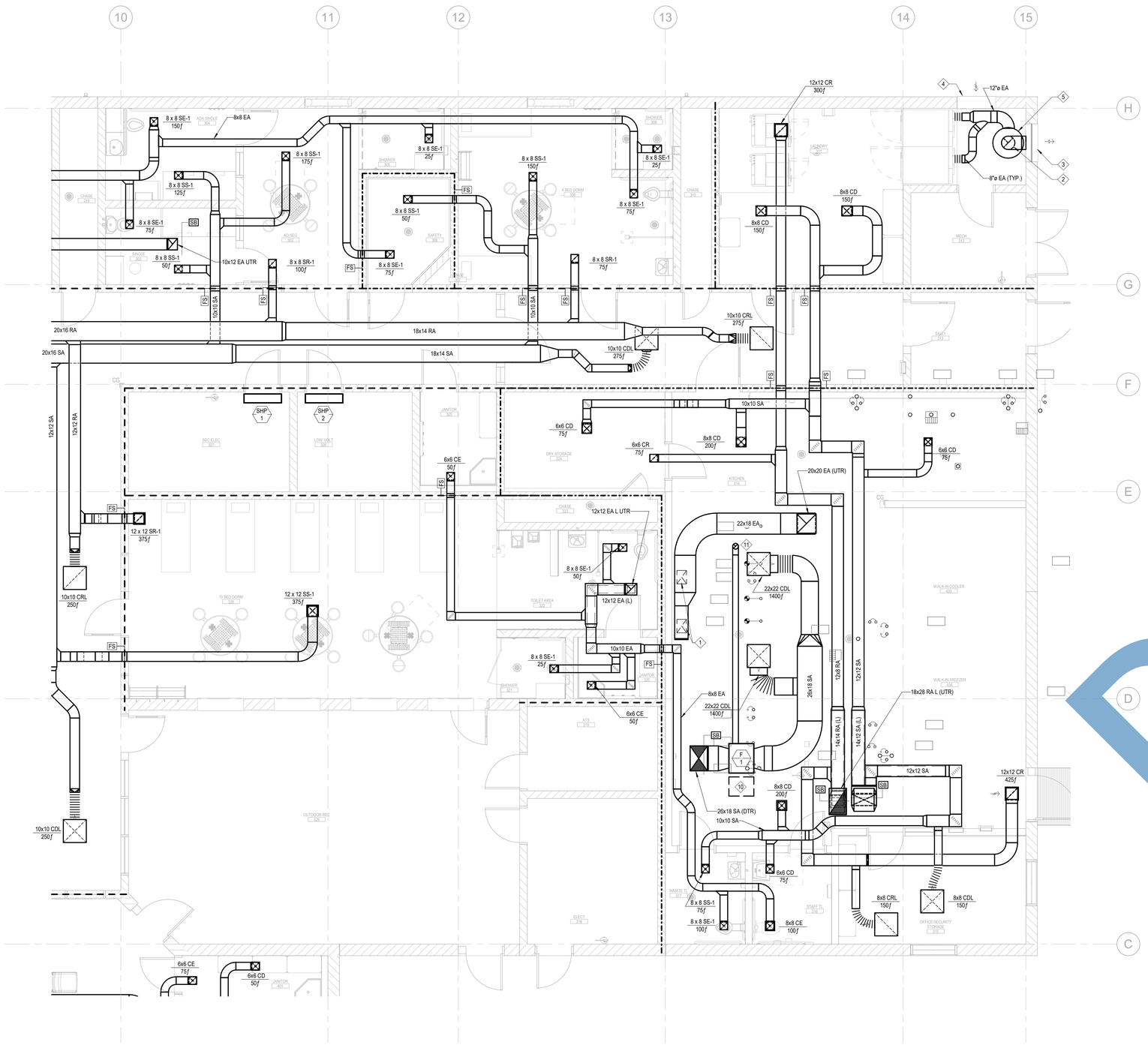


1 M-201C HVAC FLOOR PLAN - LEVEL 1 - AREA C

SCALE: 1/4" = 1'-0"

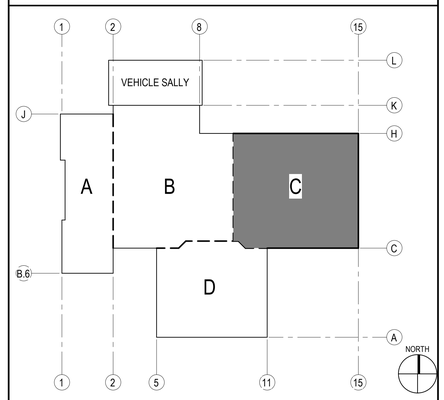
KEY NOTES:

1. EXHAUST DUCT CONNECTION TO KITCHEN HOOD. SEE FOOD SERVICE SHEET FS1.12 FOR SIZE AND AIRFLOW.
2. EA FROM LINT COLLECTOR BY DIV. 23. SEE SHEET L1.12. CONNECT DUCT TO EXHAUST LOUVER PLENUM WITH ACCESS PANEL FOR CLEANOUT.
3. EXHAUST LOUVER WITH SHEET METAL PLENUM, MIN. 3 SQ. FT. FREE AREA. SEE ARCHITECTURAL PLANS.
4. INTAKE/RELIEF LOUVER, MIN. 4 SQ. FT. FREE AREA, SEE ARCHITECTURAL PLANS.
5. EXHAUST DUCT BY DIV. 23. PROVIDE ACCESS DOOR ON BOTTOM OF EACH STRAIGHT DUCT SECTION FOR CLEANING.

   EXHAUST DUCT SIZES AND CONFIGURATION IS SHOWN PER "UNIMAC" UT75 DRYER INSTALLATION MANUAL. DIV. 23 CONTRACTOR SHALL COORDINATE ALL DRYER EXHAUST DUCT WITH DRYER MANUFACTURER'S INSTALLATION REQUIREMENTS AND WITH INSTALLING LAUNDRY EQUIPMENT CONTRACTOR.

   FINAL FLEXIBLE DRYER EXHAUST DUCT CONNECTION BY LAUNDRY EQUIPMENT CONTRACTOR.
6. PROVIDE CONTINUOUS UL-LISTED GREASE DUCT WRAP ASSEMBLY IN ACCORDANCE WITH 2022 CMC 510.7 AND SPECIFICATION SECTION 23 80 00. DUCT WRAP SHALL EXTEND TO TOP OF HOOD TO PROVIDE CONTINUOUS COVERAGE FROM THE POINT OF CEILING PENETRATION PER 2022 CMC 507.4.
7. ALL HORIZONTAL GREASE DUCT SHALL BE INSTALLED WITH MINIMUM 1/4" PER FOOT SLOPE BACK TOWARDS HOOD CONNECTION.
8. PROVIDE OPENINGS FOR INSPECTION AND CLEANING IN HORIZONTAL GREASE DUCT IN ACCORDANCE WITH 2022 CMC 510.3. OPENINGS IN LISTED DUCT WRAP ASSEMBLY SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LISTED INSTALLATION INSTRUCTIONS.
9. DIV. 23 SHALL COORDINATE WITH FOOD SERVICE EQUIPMENT CONTRACTOR TO PERFORM EXHAUST HOOD PERFORMANCE TEST PER 2022 CMC 511.2.2.1. PROVIDE TEST RESULTS TO MONO COUNTY ENVIRONMENTAL HEALTH DEPARTMENT.
10. MAINTAIN CLEARANCE ADJACENT TO SUSPENDED FURNACE FOR MAINTENANCE ACCESS
11. FLUE VENT UP THROUGH ROOF

KEY PLAN



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HVAC FLOOR PLAN - LEVEL 1 - AREA C

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M-201C

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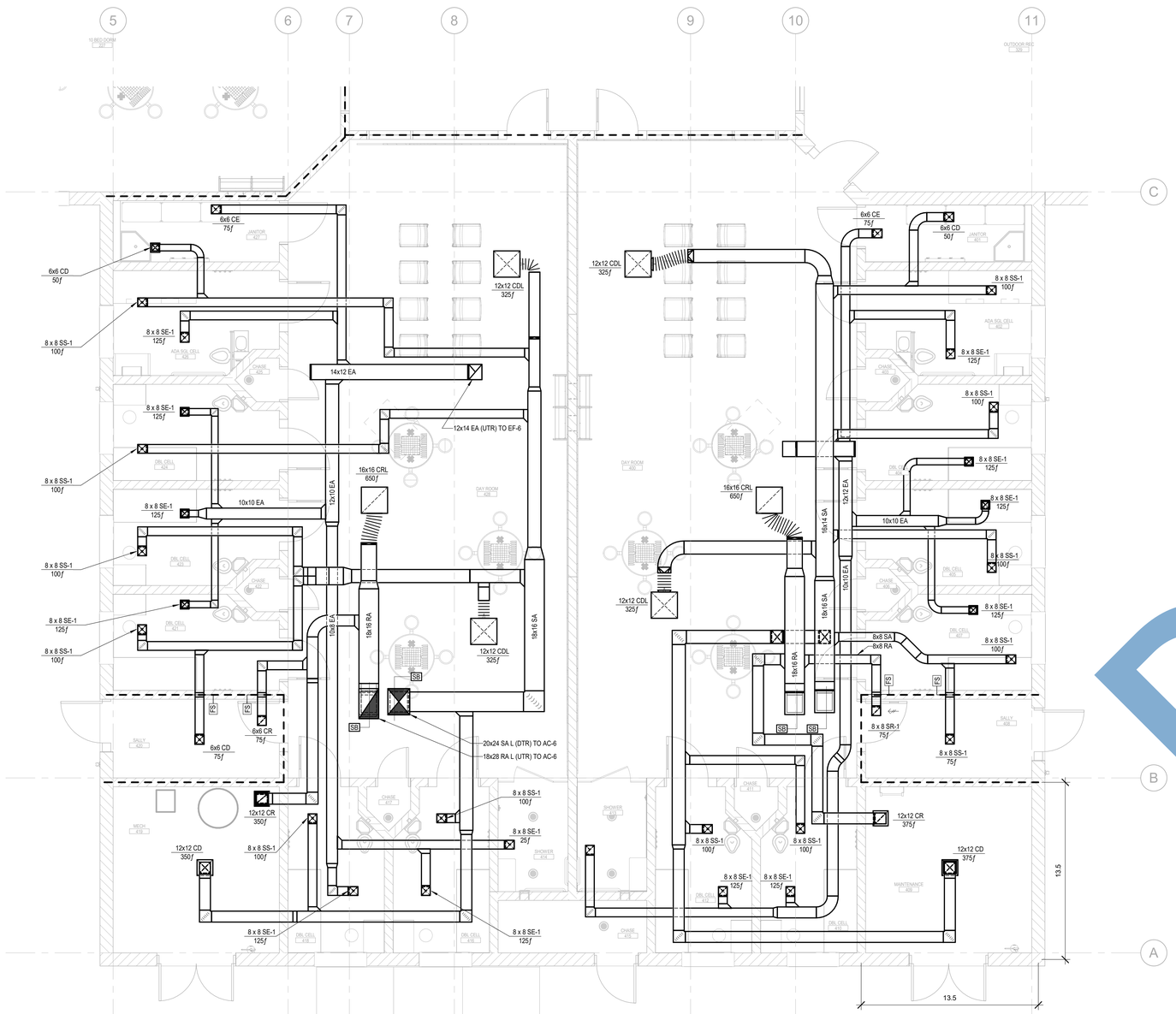

1
M-201D

HVAC FLOOR PLAN - LEVEL 1 - AREA D

SCALE: 1/4" = 1'-0"

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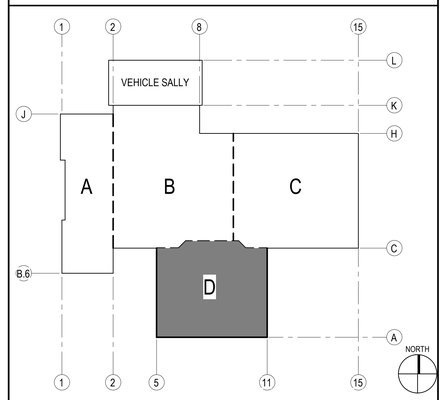
KEY PLAN



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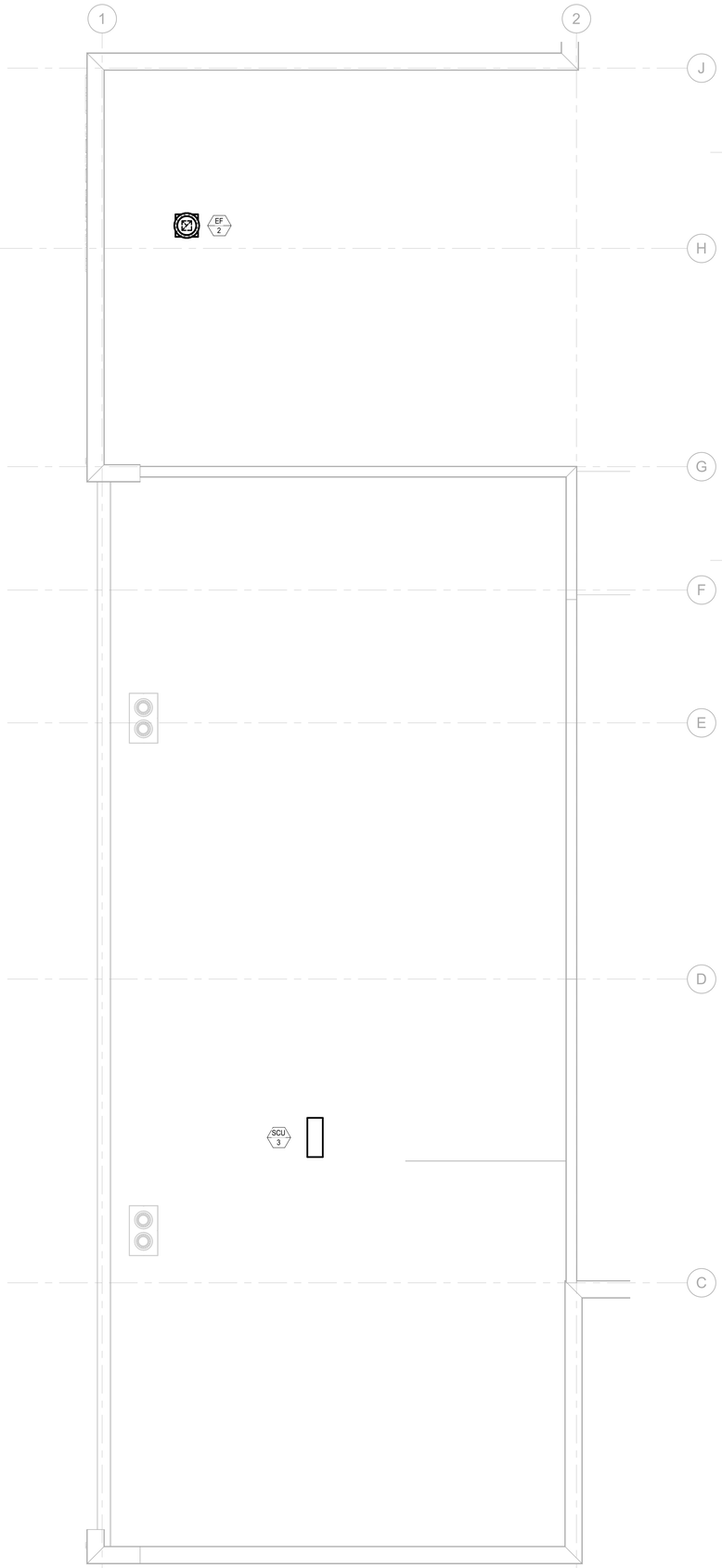

1 M-202A HVAC ROOF PLAN - AREA A
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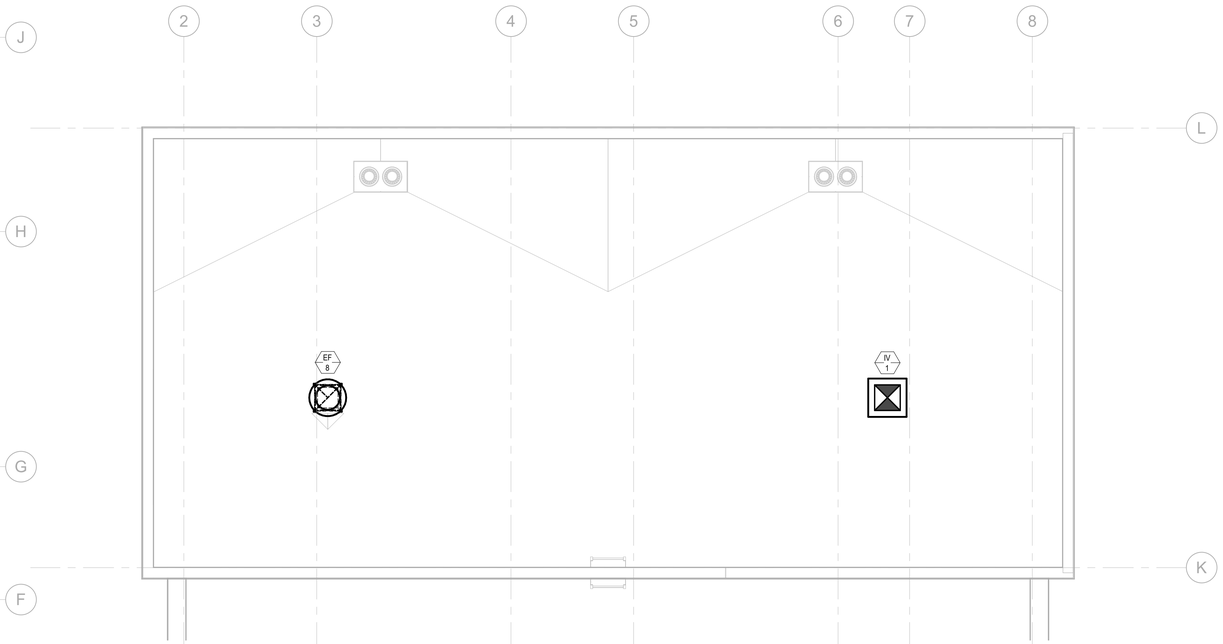

2 M-202A HVAC ROOF PLAN - VEHICLE SALLY
SCALE: 1/4" = 1'-0"

Draft

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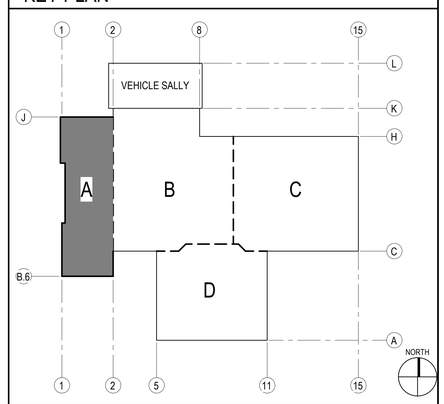

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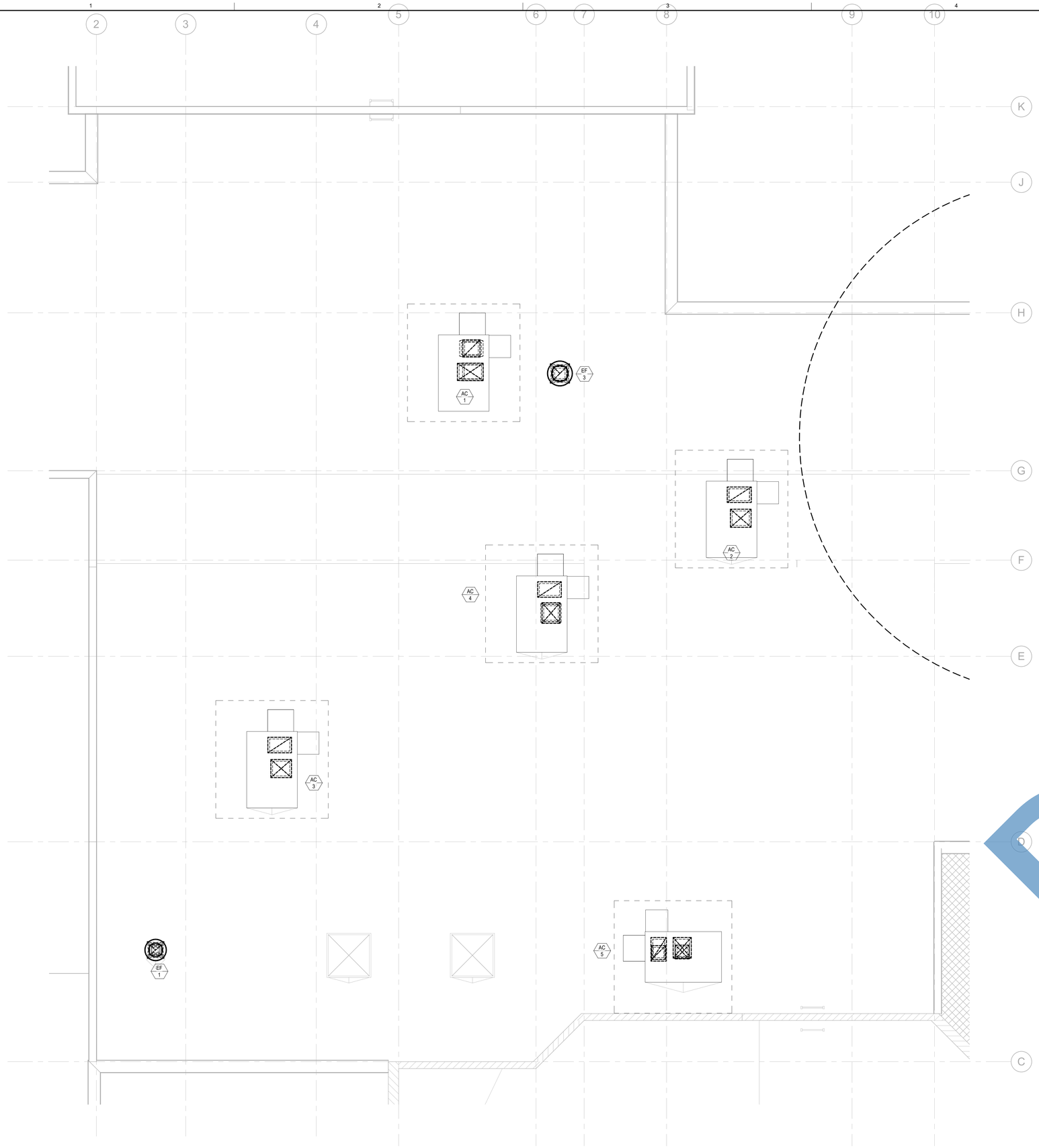

1 M-202B HVAC ROOF PLAN - AREA B

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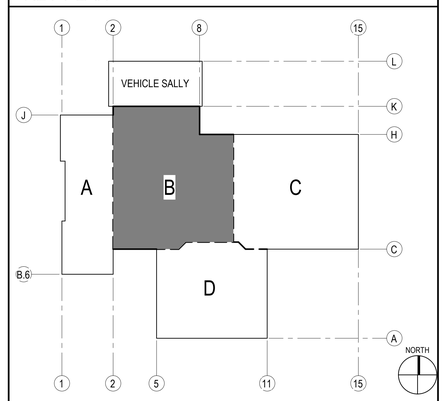
KEY PLAN



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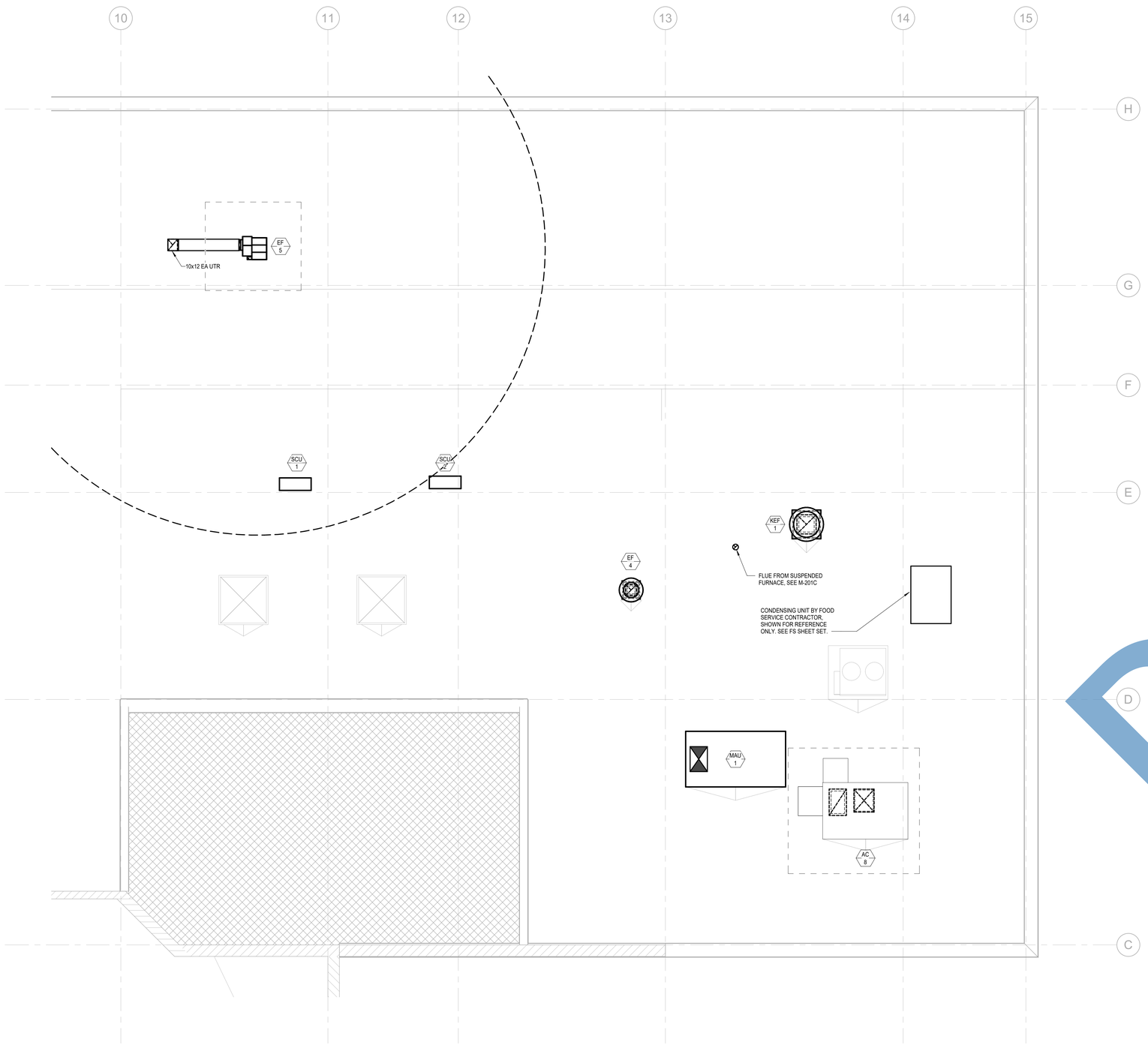

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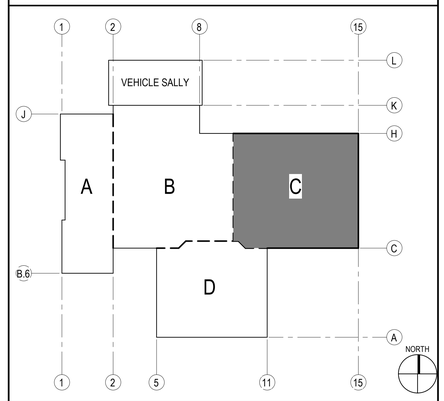
KEY PLAN



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HVAC ROOF PLAN - AREA C

SHEET

M-202C

V1

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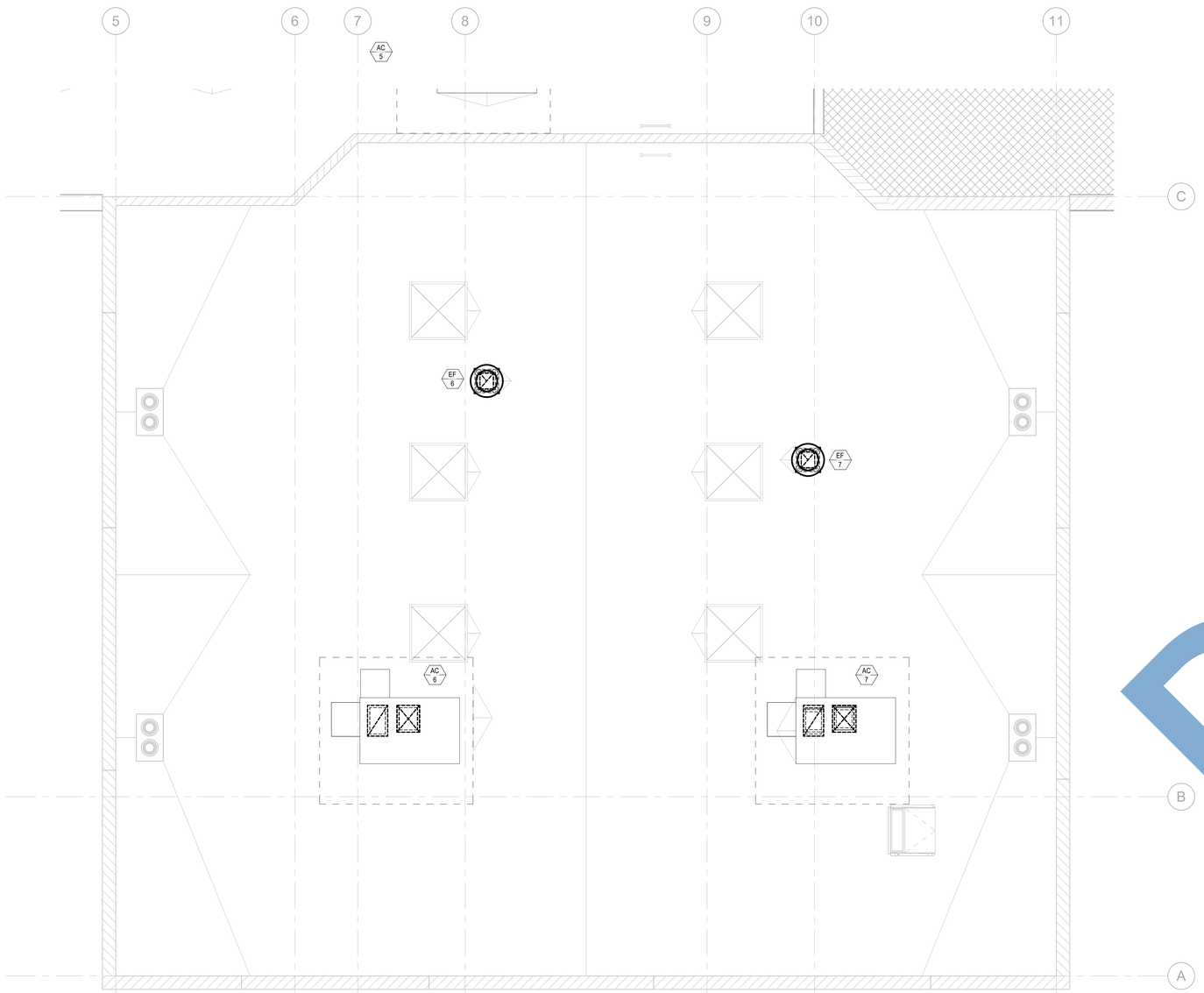
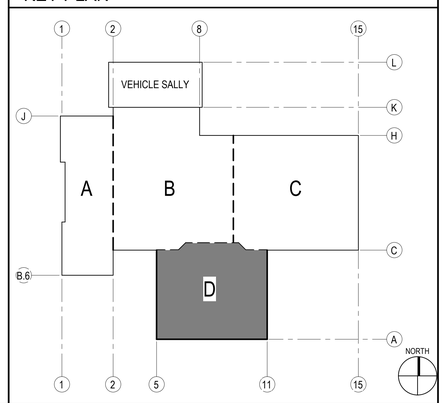


1 M-202D HVAC ROOF PLAN - AREA D

SCALE: 1/4" = 1'-0"

Draft

KEY PLAN



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GOVMOTUS No:22-N-3854-CP-DR

AGENCY

CONSULTANT

capital engineering

RANCHO CORDOVA, CALIFORNIA

MH - IS/JH/HC/AL	210306.00
PM - DESIGN TEAM	PROJECT NO.

SEAL

REGISTERED PROFESSIONAL ENGINEER
KEVIN W. HARTMAN
M 33498
EXPIRES 9/30/24
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED:

PROJECT

MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT

MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

HVAC ROOF PLAN - AREA D

SHEET

M-202D

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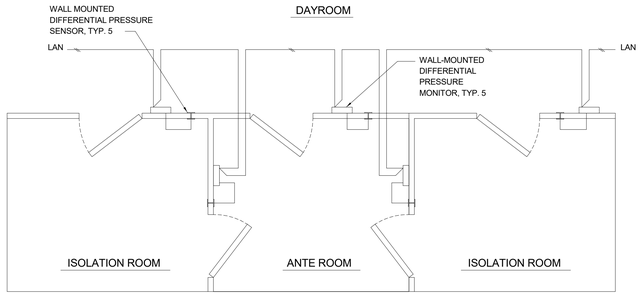


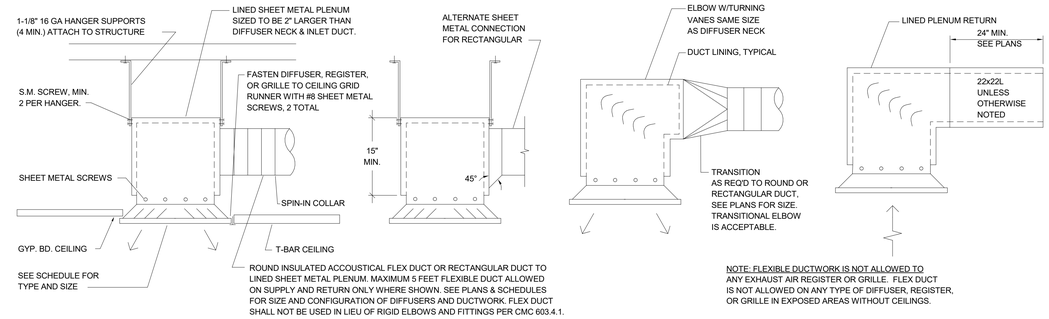
NOTES:

1. PROVIDE "SIEMENS" 547-203A RPM WALL-MOUNTED ROOM PRESSURE MONITOR W/ BACnet CONNECTION. PROVIDE PRESSURE TAP PLATE ON EACH SIDE OF WALLS INDICATED ABOVE.

ISOLATION ROOM DIFFERENTIAL PRESSURE MONITOR

8 / M-501

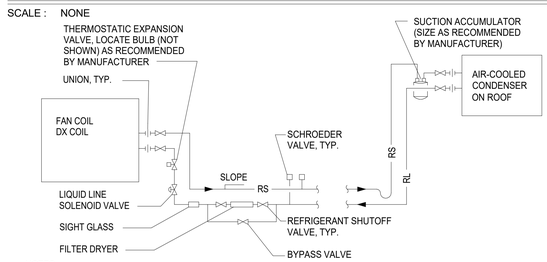
SCALE : NONE



RETURN, EXHAUST & SUPPLY REGISTER DETAIL

1 / M-501

SCALE : NONE



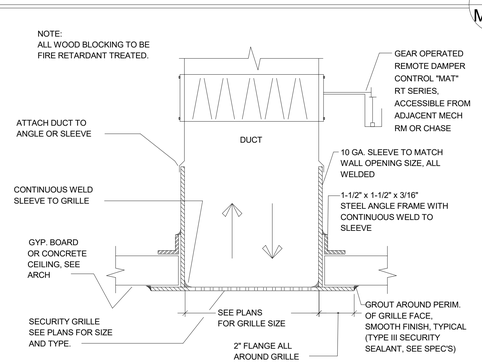
NOTES:

1. INSTALL REFRIGERANT PIPING IN STRICT ACCORDANCE WITH MANUFACTURER'S LONG LINE REFRIGERANT INSTALLATION GUIDE LINES WHERE APPLICABLE.
2. FURNISH EACH UNIT WITH: THERMOSTATIC EXPANSION VALVE, LIQUID LINE SOLENOID VALVE, LIQUID LINE FILTER, START RELAY AND CAPACITOR, OUTDOOR UNIT TIME DELAY RELAY, CRANKCASE HEATER AND SUCTION ACCUMULATOR AT COMPRESSOR - ALL ACCESSORIES TO BE FACTORY SUPPLIED ON OUTDOOR UNIT.
3. PROVIDE HARD COPPER REFRIGERANT PIPING AND FITTINGS AS PER MECH. SPECIFICATIONS.
4. SEE PLANS FOR SIZES.

REFRIGERANT LINE PIPING DIAGRAM

12 / M-501

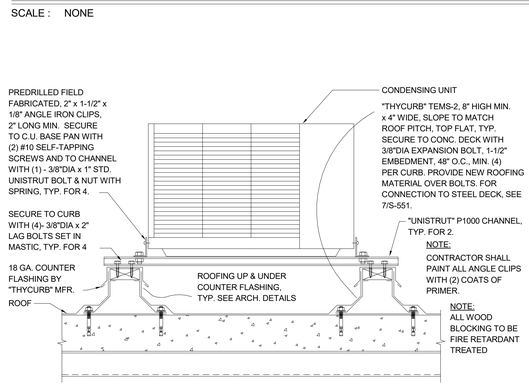
SCALE : NONE



MAX SECURITY GRILLE AT CEILING

9 / M-501

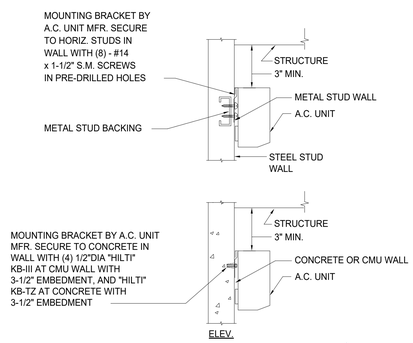
SCALE : NONE



SPLIT SYSTEM OUTDOOR UNIT MOUNTING

5 / M-501

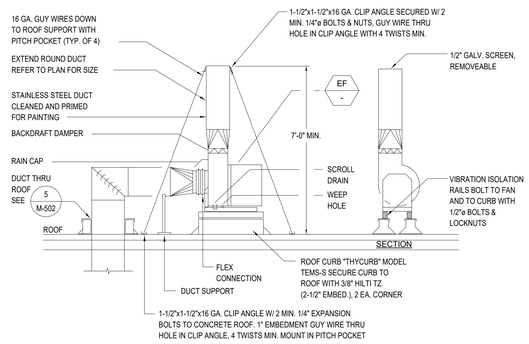
SCALE : NONE



INDOOR SAC UNITS WALL MOUNTING

2 / M-501

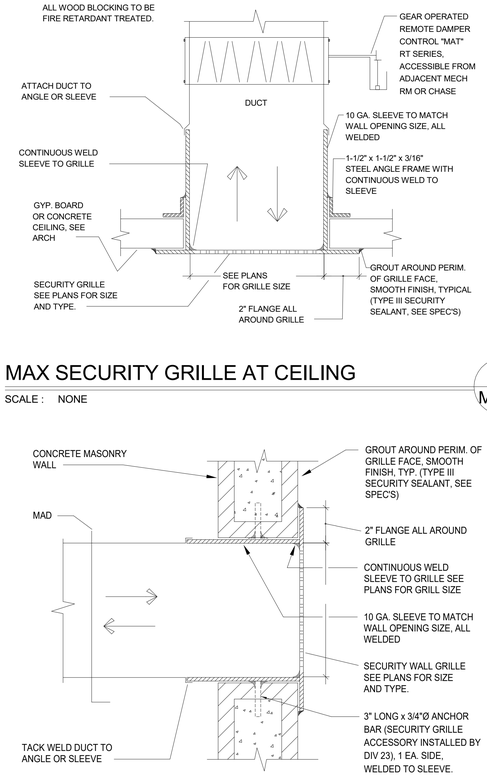
SCALE : NONE



UTILITY EXHAUST FAN MOUNTING

13 / M-501

SCALE : NONE



SECTION @ MAX SECURITY GRILLE

10 / M-501

SCALE : NONE

SECURITY GRILLE AT RATED CLG

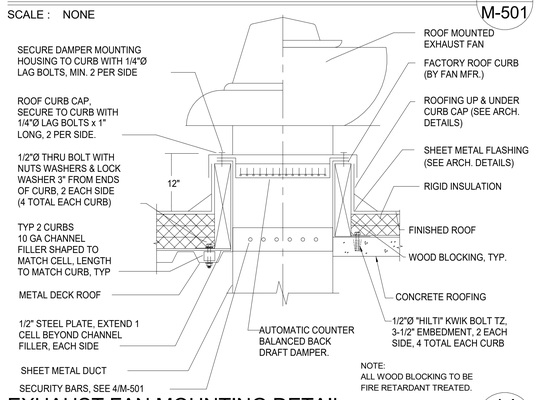
6 / M-501

SCALE : NONE

SECURITY BARRIER

3 / M-501

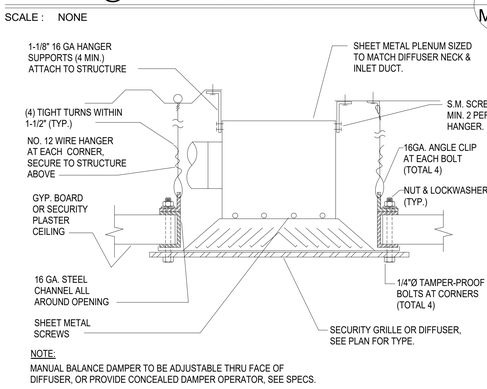
SCALE : NONE



EXHAUST FAN MOUNTING DETAIL

14 / M-501

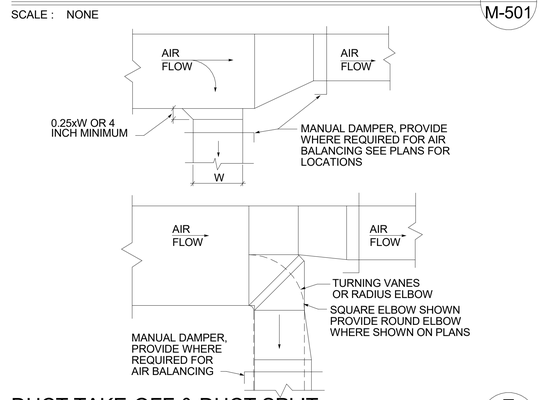
SCALE : NONE



SECURITY GRILLES @ SECURITY CEILING

11 / M-501

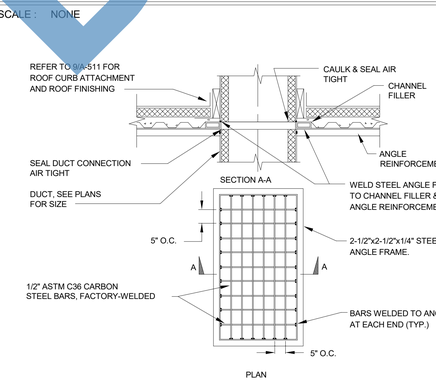
SCALE : NONE



DUCT TAKE-OFF & DUCT SPLIT

7 / M-501

SCALE : NONE



SECURITY BAR/FRAME AT ROOF

4 / M-501

SCALE : NONE

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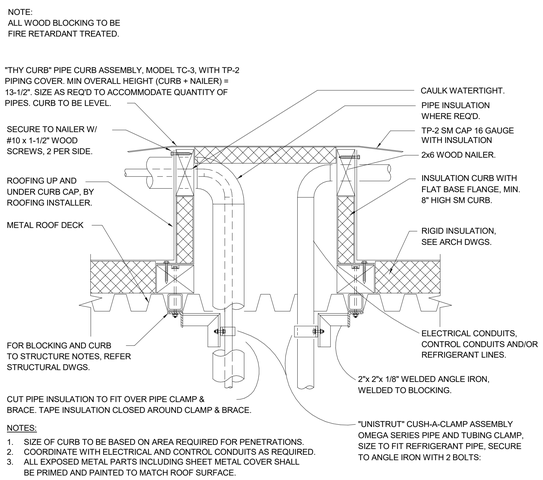
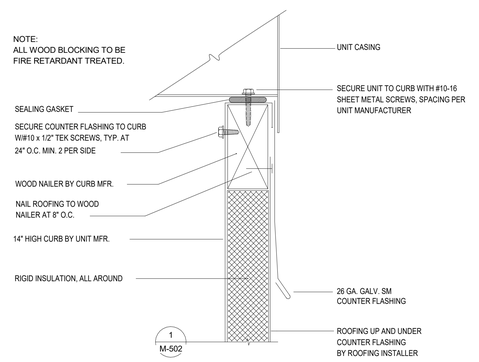


NOTES:
1. SIZE OF CURB TO BE BASED ON AREA REQUIRED FOR PENETRATIONS.
2. COORDINATE WITH ELECTRICAL AND CONTROL CONDUITS AS REQUIRED.
3. ALL EXPOSED METAL PARTS INCLUDING SHEET METAL COVER SHALL BE PRIMED AND PAINTED TO MATCH ROOF SURFACE.

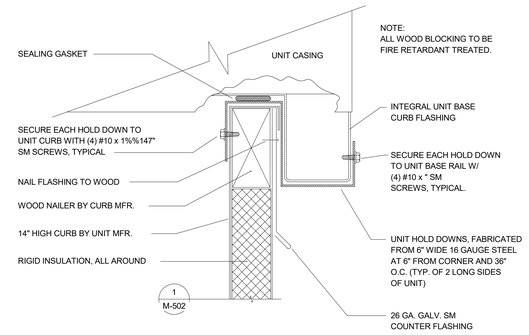
PIPE THRU ROOF SAFE MOUNTING

SCALE : NONE — 10 / M-502



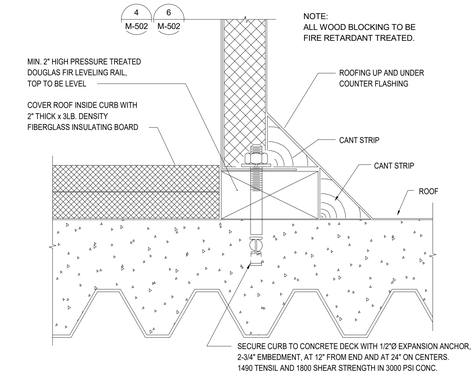
MAKE-UP UNIT TO CURB MOUNTING

SCALE : NONE — 6 / M-502



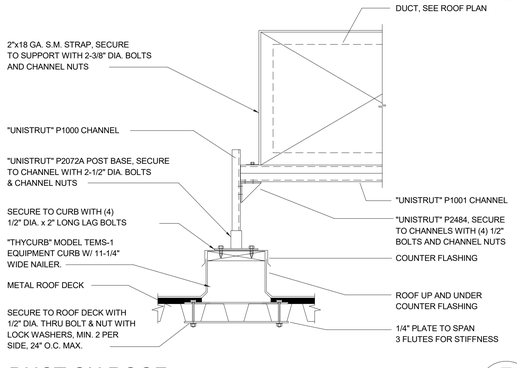
AC UNIT TO CURB MOUNTING DETAIL

SCALE : NONE — 4 / M-502



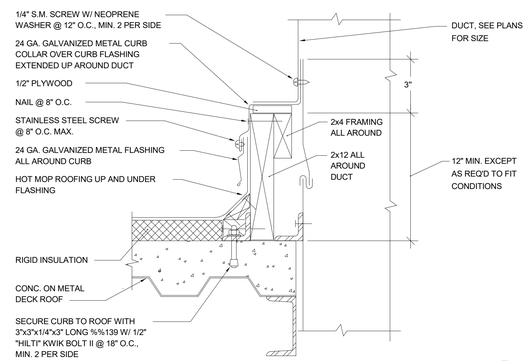
CURB TO ROOF MOUNTING DETAIL

SCALE : NONE — 1 / M-502



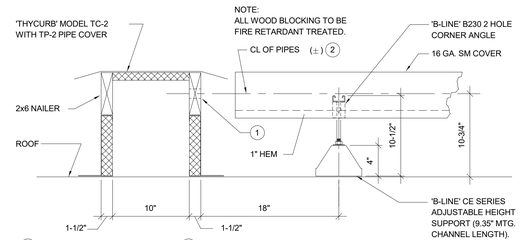
DUCT ON ROOF

SCALE : NONE — 7 / M-502



DUCT THRU ROOF

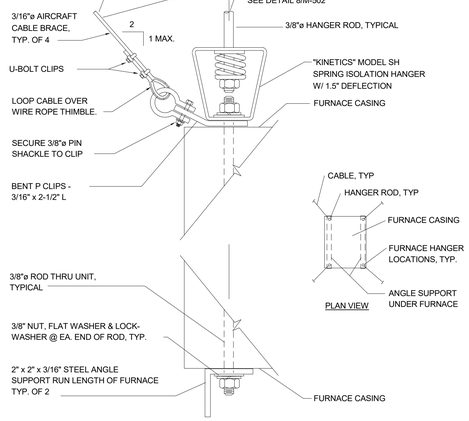
SCALE : NONE — 5 / M-502



1. DRILL 2x6 FOR PIPES, 1/8" (±) LARGER THAN OD. SEAL PIPE PENETRATIONS WITH SEALANT, SPACE PIPES OVER 10" WIDTH
2. SINGLE SET = 1 RL 1 RS 1 CONTROL CONDUIT
3. SUPPORT TO BE AT MAX. 6'-0" SPACING.
4. ALL EXPOSED METAL PARTS INCLUDING SHEET METAL COVER SHALL BE PRIMED AND PAINTED TO MATCH ROOF SURFACE.

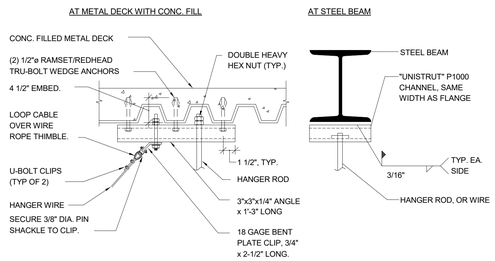
PIPE ON ROOF MOUNTING

SCALE : NONE — 2 / M-502



FURNACE MOUNTING

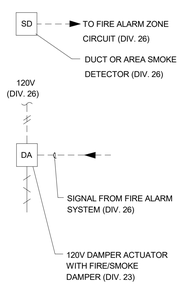
SCALE : NONE — 11 / M-502



ROD AND HANGER ATTACHMENT TO BE COORDINATED WITH STRUCTURAL REQUIREMENTS INCLUDING A MAXIMUM OF 75 LBS. PER ROD AT THE ROOF DECKING AND 200 LBS. PER HANGER AT THE FLOOR DECK.

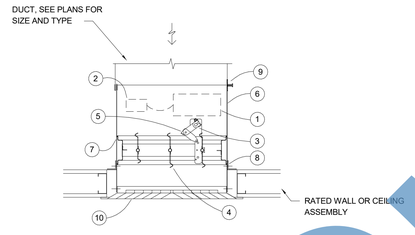
HANGER ROD/CABLE ATTACHMENT

SCALE : NONE — 8 / M-502



WIRING DIAGRAM

1. WIRE TO CLOSE DAMPER UPON SIGNAL FROM AREA SMOKE DETECTION FROM THE FIRE ALARM SYSTEM.
2. DAMPER ACTUATOR SHALL BE POWER-OPEN, FAIL-CLOSED TYPE.



BASIS OF DESIGN PRODUCT: "RUSKIN" FSD60-G
UL555/555S LISTING: R5531
CSFM LISTING: #3235-0245:126

MOUNTING DETAIL - GRILLE

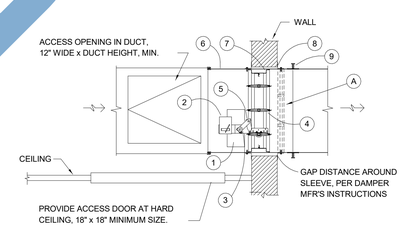
INSTALLATION SHALL BE PER THE DAMPER MANUFACTURER'S U.L. LISTING FOR DAMPER IN THE PLANE OF THE CEILING AND ACTUATOR OUTSIDE OF THE DUCT. MANUFACTURER SHALL PROVIDE ALL COMPONENTS NECESSARY TO INSTALL THE DAMPERS PER THIS REQUIREMENT.

FIRE & SMOKE DAMPERS SHALL BE STATE FIRE MARSHALL APPROVED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS. MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE ON-SITE TO THE INSPECTING AUTHORITIES. ACCESS POINTS TO DAMPERS SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL READING "SMOKE/FIRE DAMPER".

DETAILS SHOWN ARE FOR REFERENCE ONLY.

1. ACTUATOR (LOCATION MAY VARY). DAMPER MAY BE SUPPLIED WITHOUT ACTUATOR INSTALLED. SEE ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER ACTUATORS.
2. FIRESTAT OR ELECTRONIC FUSE LINK (EFL)
3. AUXILLIARY OPERATING JACK SHAFT
4. FIRE/SMOKE DAMPER
5. OVER CENTER LOCK
6. DAMPER SLEEVE
7. CAULKING MATERIAL (MAY BE ON EITHER SIDE OF DAMPER FRAME)
8. PICTURE-FRAME OR CONVENTIONAL MOUNTING MOUNTING ANGLES, PER MFR'S INSTRUCTIONS. MIN 1" OVERLAP ON WALL ALL SIDES OF DAMPER
9. S-JOINT OR DUCTMATE CONNECTION TO DUCT
10. GRILLE/DIFFUSER, WHERE APPLICABLE

A. WHERE DAMPER IS LOCATED IN A SECURITY-BARRIER WALL, PROVIDE SECURITY BAR ACCESSORY OPTION, FACTORUY-INSTALLED BY DAMPER MFR. SECURITY BARS SHALL BE WELDED TO DAMPER SLEEVE AND SHALL NOT INVALIDATE THE DAMPER'S UL LISTED INSTALLATION. REFER TO SPECIFICATIONS FOR SECURITY BAR CONSTRUCTION DETAILS.



BASIS OF DESIGN PRODUCT: "RUSKIN" FSD60
UL555/555S LISTING: R5531
CSFM LISTING: #3235-0245:0126

MOUNTING DETAIL - WALL

INSTALLATION SHALL BE PER THE DAMPER MANUFACTURER'S U.L. LISTING FOR DAMPER IN THE PLANE OF THE WALL AND ACTUATOR OUTSIDE OF THE DUCT. MANUFACTURER SHALL PROVIDE ALL COMPONENTS NECESSARY TO INSTALL THE DAMPERS PER THIS REQUIREMENT.

(NOT USED)

SCALE : NONE — 12 / M-502

(NOT USED)

SCALE : NONE — 9 / M-502

COMBINATION FIRE/SMOKE DAMPER INSTALLATION

SCALE : NONE — 3 / M-502

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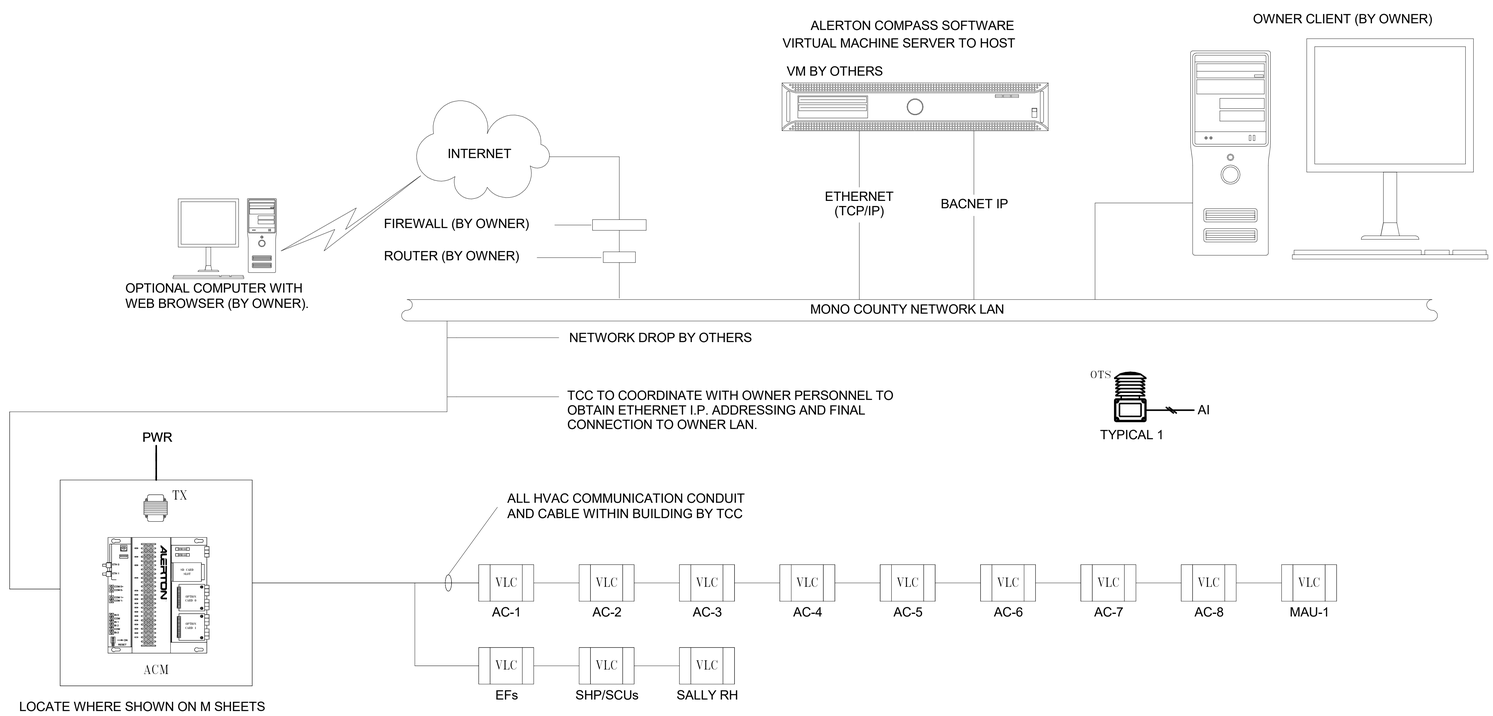

SEQUENCE OF OPERATIONS

BACNET BUILDING MANAGEMENT SYSTEM SHALL CONSIST OF AN ALERTON ACM BUILDING CONTROLLER, ADVANCED APPLICATION CONTROLLERS AND APPLICATION SPECIFIC CONTROLLERS AS SHOWN ON SYSTEM ARCHITECTURE. ALERTON HARDWARE SHALL BE INTERFACED WITH AND PROGRAMMED BY BACNET ADVANCED WORKSTATION SOFTWARE. BUILDING CONTROLLER SHALL MANAGE SYSTEM DATA AND PROVIDE OPERATING SCHEDULES AS DESIGNATED BY OWNER. TEMPERATURE CONTROL CONTRACTOR (TCC) SHALL PROVIDE FOLLOWING COLORGRAPHIC COMPUTER SCREENS (FOR ALL NECESSARY EQUIPMENT) ONTO ALERTON SERVER:

A. SITE PLAN SHOWING ALL BUILDINGS WITH NAVIGATION CAPABILITIES
B. INDIVIDUAL BUILDING FLOOR PLANS WITH DUCT LAYOUT AND ZONE SENSOR LOCATIONS
C. CONTROL CHART GRAPHIC SHOWING AT A GLANCE UNIT TEMPERATURES, SETPOINTS AND STATUS
F. EQUIPMENT GRAPHIC DEPICTING UNIT CONFIGURATION WITH DYNAMIC CAPABILITIES, COLORED LIGHTS FOR STAGES IN OPERATION, ANY ACTIVE ALARMS AND ALL TEMPERATURES SHOWN ON CONTROL DIAGRAMS.
G. DETAILED INDIVIDUAL UNIT CONTROL PANEL GRAPHIC SHOWING UNIT PARAMETERS, STATUS, SETPOINTS AND TEMPERATURES.

SYSTEM ARCHITECTURE

1) ALL CONDUIT AND CABLE TO BE INSTALLED PER SPECIFICATION AND CODE.

2) SEE MECHANICAL FLOOR PLANS FOR QTY'S AND LOCATIONS. CONTROLLER QTY SHOWN IN ARCHITECTURE DOES NOT ILLUSTRATE TRUE QTY REQUIRED. SHOWN TO ILLUSTRATE ARCHITECTURE STRUCTURE.

3) CAD FLOOR PLANS TO BE PROVIDED TO TCC FOR GRAPHIC DEVELOPMENT.

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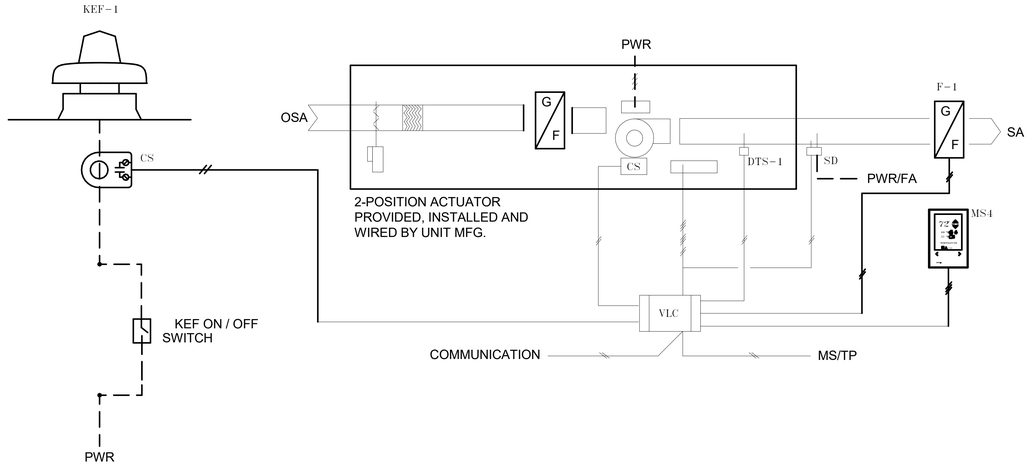
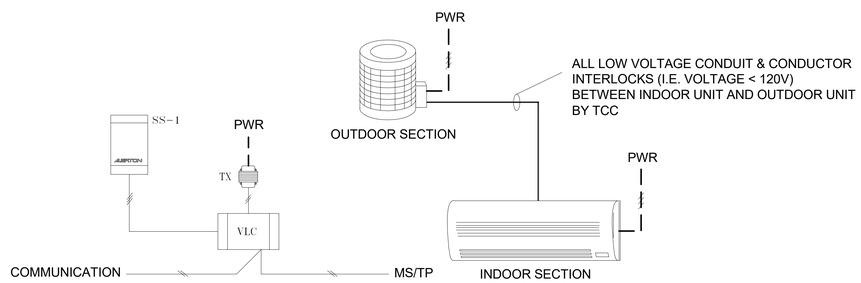


MAU CONTROL DIAGRAM

1) SEE SCHEDULE AND PLANS FOR QUANTITIES AND LOCATIONS
2) SEE SCHEDULE FOR UNITS REQUIRED TO HAVE DUCT SMOKE DETECTORS



SEQUENCE OF OPERATION

CONTROL HARDWARE AND LOGIC FOR THE SPLIT SYSTEM SHALL BE THE RESPONSIBILITY OF THE UNIT MANUFACTURER. TCC SHALL INSTALL THE FACTORY PROVIDED CONTROL PACKAGE AS REQUIRED FOR PROPER UNIT OPERATION.

TCC TO PROVIDE AND INSTALL A ZONE TEMPERATURE SENSOR TO ALLOW THE OWNER REMOTE MONITORING VIA THE EMS. AN ALARM SHALL BE GENERATED AT THE OPERATOR WORKSTATION IF A CRITICAL ZONE TEMPERATURE OF 85 F (ADJUSTABLE) IS REACHED.

STAND ALONE SPLIT SYSTEM W/ EMS MONITORING

1) SEE SCHEDULE AND PLANS FOR QUANTITIES AND LOCATIONS

MATERIAL LEGEND

ALL PART NUMBERS ARE ALERTON UNLESS OTHERWISE NOTED

SYMBOL	DESCRIPTION
ACM	ALERTON ASCENT CONTROL MODULE
SERVER	ALERTON COMPATIBLE SERVER
COMPUTER	ALERTON COMPATIBLE COMPUTER
LAPTOP	ALERTON COMPATIBLE LAPTOP
TCP	TEMPERATURE CONTROL PANEL
TX	LOW VOLTAGE CONTROL TRANSFORMER
VLX	ALERTON BACNET PROGRAMMABLE CONTROLLER
VAV	ALERTON BACNET PROGRAMMABLE VAV CONTROLLER
VLC	ALERTON BACNET PROGRAMMABLE CONTROLLER
MS	ALERTON MICROSET IV WALL SENSOR
MS-C	ALERTON MICROSET IV WALL SENSOR WITH CO2 SENSOR
MT	ALERTON MICROTOUCH WALL SENSOR
SS-1	ALERTON S.S WALL SENSOR
SS-2	ALERTON S.S WALL SENSOR W/ PUSH BUTTON OVERRIDE
SS-3	ALERTON S.S WALL SENSOR W/ PUSH-BUTTON OVERRIDE AND SERVICE JACK
OTS	ALERTON OUTSIDE TEMPERATURE SENSOR
DTS-1	ALERTON DUCT TEMPERATURE SENSOR
DTS-2	ALERTON DUCT AVERAGING SENSOR
CS	CURRENT SWITCH
WTS	ALERTON WELL IMMERSION TEMPERATURE SENSOR
DPT-1	DUCT DIFFERENTIAL PRESSURE TRANSDUCER
DPS-1	STATIC PRESSURE SWITCH
CO2-1	CO2 WALL SENSOR
CO2-2	CO2 OUTSIDE AIR SENSOR
SD	DUCT SMOKE DETECTOR
RIB	RELAY-IN-A-BOX
PC	AMBIENT LIGHT SENSOR, OUTDOOR
TS-1	STRAP ON MOUNTING AQUASTAT CONTROLLER
FSW	FLOW SWITCH
DA-F	DAMPER ACTUATOR (FLOATING)
DA-A	DAMPER ACTUATOR (ANALOG)
T-1	SPDT LINE VOLTAGE THERMOSTAT
TCV-F	TEMPERATURE CONTROL VALVE (FLOATING)
TCV-A	TEMPERATURE CONTROL VALVE (ANALOG)
AFMS	AIR FLOW MEASURING STATION
HS	DUCT HI PRESSURE SWITCH
LLT	LOW LIMIT STAT
LAN	LOCAL AREA NETWORK
M/S	MOTOR STARTER
VFD	VARIABLE FREQUENCY DRIVE
EA	EXHAUST AIR
SA	SUPPLY AIR
OA	OUTSIDE AIR
ENCL	NEMA ENCLOSURE
RA	RETURN AIR
PWR	POWER BY DIV. 26
PWR/FA	POWER AND FIRE ALARM WIRING BY DIV. 26

AI = ANALOG INPUT

AO = ANALOG OUTPUT

DI = DIGITAL INPUT

DO = DIGITAL OUTPUT

WIRING BY TEMPERATURE CONTROL CONTRACTOR (TCC)

WIRING BY DIVISION 26 ELECTRICAL CONTRACTOR (EC)

THESE CONTROL DIAGRAMS ARE DIAGRAMMATICAL AND DO NOT DEPICT ALL CONTROL WIRES, RELAYS OR COMPONENTS OF A COMPLETE SYSTEM. IT IS THE RESPONSIBILITY OF THE TEMPERATURE CONTROLS CONTRACTOR TO PROVIDE A COMPLETE AND FUNCTIONAL CONTROL SYSTEM, AT NO ADDITIONAL COST TO THE OWNER, TO MEET CONTROL INTENT OF DIAGRAMS SHOWN.

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TITLE
HVAC CONTROLS

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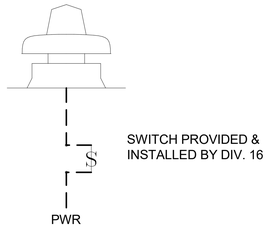
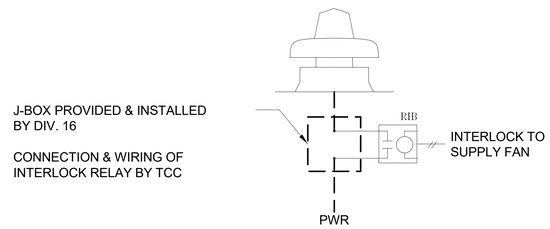
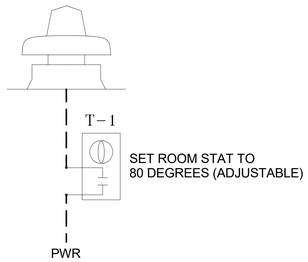


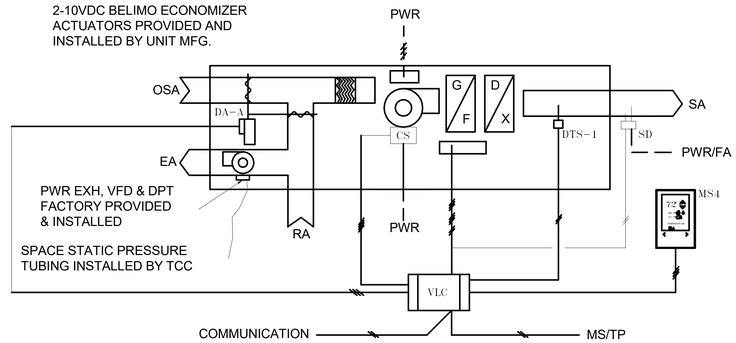
EF W/ TOGGLE SWITCH



EXHAUST FAN W/ INTERLOCK



EF W/ LINE VOLTAGE STAT



SEQUENCE OF OPERATION

SYSTEM DETAILS
PROVIDE AN ALERTON CONTROL SYSTEM. SYSTEM TEMPERATURES, SETPOINTS AND EQUIPMENT STATUS SHALL BE DISPLAYED AND ADJUSTABLE FROM ALERTON GRAPHICAL USER INTERFACE (GUI).

ROOM SENSOR DETAIL
ROOM SENSORS SHALL BE BACKLIT LCD TYPE DISPLAYING ROOM SETPOINT, ROOM TEMPERATURE, ROOM HUMIDITY, AND OUTSIDE AIR TEMPERATURE. SENSOR SHALL BE EQUIPPED WITH A MULTI-COLOR LED INDICATOR IDENTIFYING SCHEDULED ON (GREEN), HEATING (AMBER), COOLING (BLUE) OR ALARM (RED) STATUS AT A GLANCE. TOUCHSCREEN USER INTERFACE SHALL BE ABLE TO ACCESS PROGRAM SETTINGS FROM THE ZONE LEVEL.

SCHEDULING + OCCUPANCY CONTROL
DURING PERIODS OF OCCUPANCY AC UNIT VLC CONTROLLER SHALL ENABLE SUPPLY FAN, OPEN ECONOMIZER DAMPERS TO MINIMUM POSITION AND ENABLE HEATING AND COOLING TO MAINTAIN ROOM SETPOINT. OUTSIDE AIR DAMPER SHALL BE COMMANDED CLOSED WHEN UNIT IS OFF. IF SUPPLY FAN IS ENABLED AND STATUS IS NOT SEEN THEN AN ALARM SHALL BE GENERATED AND HEATING/COOLING SHALL BE DISABLED. TCC SHALL PROVIDE ALL ECONOMIZER CONTROLS FROM VLC CONTROLLER. AC UNIT MANUFACTURER SHALL PROVIDE ALL UNIT DAMPERS AND 2-10VDC BELIMO DAMPER ACTUATORS.

COOLING + ECONOMIZER COOLING
ON A CALL FOR COOLING, VLC CONTROLLER SHALL MODULATE ECONOMIZER DAMPERS AS FIRST STAGE OF COOLING AS LONG AS OUTSIDE AIR TEMPERATURE IS BELOW ECONOMIZER AIR LOCKOUT TEMPERATURE SET AT 65°F (ADJ). IF DURING ECONOMIZER OPERATION, VLC CANNOT MAINTAIN ROOM COOLING SETPOINT, AND ECONOMIZER HAS BEEN OPEN 100% FOR 5 MINUTES, VLC SHALL ENABLE AND STAGE DX COOLING IN CONJUNCTION WITH ECONOMIZER AS LONG AS OUTSIDE AIR TEMPERATURE IS ABOVE COOLING LOCKOUT TEMPERATURE SET AT 60°F (ADJ). IF OUTSIDE AIR TEMPERATURE RISES ABOVE ECONOMIZER LOCKOUT TEMPERATURE VLC SHALL CLOSE ECONOMIZER DAMPER TO MINIMUM POSITION.

ECONOMIZER ALGORITHMS SHALL BE BASED UPON GLOBAL OUTSIDE AIR DRY BULB TEMPERATURE AND ZONE TEMPERATURE. MINIMUM OUTSIDE AIR DAMPER POSITION SHALL BE DISPLAYED AND ADJUSTABLE FROM EACH DETAILED INDIVIDUAL UNIT CONTROL PANEL GRAPHIC.

TITLE 24 REQUIRED FAULT DETECTION AND DIAGNOSTICS (FDD) SHALL BE MANAGED BY DDC SYSTEM. FDD SHALL BE MONITORED AND CONTROLLED VIA GUI. FDD FUNCTIONALITY SHALL INCLUDE ROOM SENSOR ECONOMIZER STATUS INDICATION LED FOR ALARM AND FAULT CONDITIONS, ALONG WITH THE ABILITY TO TEST ECONOMIZER FUNCTION. FDD SYSTEM SHALL BE APPROVED BY CALIFORNIA ENERGY COMMISSION (CEC) AND LISTED AS SUCH ON THE CEC WEBSITE.

HEATING CONTROL
ON A CALL FOR HEATING VLC SHALL POSITION ECONOMIZER DAMPERS TO MINIMUM POSITION AND STAGE HEATING TO MAINTAIN ROOM HEATING SETPOINT AS LONG AS OUTSIDE AIR TEMPERATURE IS BELOW HEATING LOCKOUT TEMPERATURE SET AT 65°F (ADJ).

SMOKE DETECTION
INTERLOCK DIVISION 26 PROVIDED FIRE MARSHALL APPROVED DUCT SMOKE DETECTOR WHERE LISTED. TCC SHALL INTERLOCK DUCT SMOKE DETECTOR TO SHUTDOWN UNIT UPON DETECTION OF PRODUCTS OF COMBUSTION.

AUTOMATIC DEMAND RESPONSE
UNIT CONTROL SHALL BE CAPABLE OF AUTOMATIC DEMAND SHED (ADR). ADR CAPABILITIES SHALL INCLUDE ZONE TEMPERATURE RESET WITH AN ADJUSTABLE ADR REDUCTION AMOUNT FOR THE TEMPERATURE RESET. SYSTEM SHALL ALLOW MANUAL DISABLING BY AUTHORIZED PERSONNEL. SYSTEM SHALL ALSO ALLOW FOR A GLOBAL SINGLE POINT SETPOINT ADJUSTMENT. ADR SIGNAL SHALL BE A SINGLE CONTACT CLOSURE PROVIDED BY OTHERS.

AC UNIT CONTROL DIAGRAM

SEE EQUIPEMENT SCHEDULE FOR UNITS REQUIRED TO HAVE SD'S

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HVAC CONTROLS

SHEET
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PLUMBING ABBREVIATIONS

ABBREVIATION	DESCRIPTION
ABC	ABOVE CEILING
ACC DR	ACCESS DOOR
ACC P	ACCESS PANEL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFP	ABOVE FINISHED PAVEMENT
AHV	AIR HOSE VALVE
ASH	AUTOMATIC SPRINKLER HEAD
BEL	BELOW
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
CDC	CALIFORNIA DEPARTMENT OF CORRECTIONS
CFF	CAPPED FOR FUTURE
CLG	CEILING
CMP	CORRUGATED METAL PIPE
COL	COLUMN
CONN	CONNECT/CONNECTION
CONT	CONTINUATION
CWH	COLD WATER HEADER
(D)	DROP
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DN	DOWN
DW	DRY WELL
DW	DISHWASHER
DWG	DRAWING
(E)	EXISTING
EL	ELEVATION
ELEC	ELECTRICAL
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
FA	FROM ABOVE
FB	FROM BELOW
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
FF	FINISHED FLOOR
FLR	FLOOR
FSR	FIRE SPRINKLER RISER
FT	FLOOR TOILET
/FT	PER FOOT
FTK	FLUSH TANK
FU	FIXTURE UNIT
FV	FLUSH VALVE
GAL	GALLONS
HC	HANDICAPPED
HR	HOUR
HS	HAND SINK
HT	HEIGHT
HTR	HEATER
HWH	HOT WATER HEATER
IE	INVERT ELEVATION
KEC	KITCHEN EQUIPMENT CONTRACTOR
KS	KITCHEN SINK
LV	LAVATORY
MC	MOTOR CONTROLLER
MECH	MECHANICAL
MTD	MOUNTED
(N)	NEW
NC	NORMALLY CLOSED

ABBREVIATION	DESCRIPTION
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OH	OVERHEAD
OS & Y	OUTSIDE SCREW AND YOKE
PH	PHASE
PLBG	PLUMBING
PLD	PLANTER DRAIN
PO	PLUGGED OUTLET
PRS	PRE-RINSE SINK
PS	POT SINK
PT	PLASTER TRAP
(R)	RISER
REC	RECESSED
REQD	REQUIRED
REV	REVISION
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RWL	RAIN WATER LEADER
SD	STORM DRAIN
SH	SHOWER
SPEC	SPECIFICATION
SS	STAINLESS STEEL/SERVICE SINK
STD	STANDARD
STRUC	STRUCTURAL
(TA)	TO ABOVE
(TB)	TO BELOW
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TOC	TOP OF CONCRETE
TS	TAMPER SWITCH
TYP	TYPICAL
UF	UNDER FLOOR
UG	UNDERGROUND
UL	UNDERWRITERS' LABORATORIES
UR	URINAL
US	UNDER SLAB
V	VENT
VTR	VENT THRU ROOF
VO	VALVED OUTLET
VW	VACUUM WASTE
W/	WITH
W/O	WITHOUT
W	WASTE
WC	WATER CLOSET
WC/L	WATER CLOSET AND LAVATORY
WF	WASH FOUNTAIN
ZCV	ZONE CONTROL VALVE

SYMBOLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	---	3 WAY MODULATING CONTROL VALVE
	---	3 WAY TWO POSITION CONTROL VALVE
	---	3 WAY VALVE
	---	ANCHOR
	---	ANGLE GLOBE VALVE
	AVN	ANGLE VALVE
	AQ	AQUASTAT
	AD	AREA DRAIN
	---	AUTOMATIC AIR VENT
	---	AUTOMATIC FLOW CONTROL
	BFP, BP, DCW	BACKFLOW PREVENTER, REDUCE PRESSURE, DOUBLE CHECKVALVE
	---	BALANCING VALVE
	---	BALL JOINT
	---	BALL VALVE
	---	BOTTOM CONNECTION
	---	BUTTERFLY VALVE
BPT	BPT	BYPASS TIMER
	CBV	CALIBRATED BALANCE VALVE
	CB, RD	CATCH BASIN, ROOF DRAIN
	---	CHECK VALVE
	---	CIRCUIT SETTER VALVE
	CP	CIRCULATING PUMP
	CO	CLEANOUT
DS	DS	DYNAMIC SENSOR
	---	ECCENTRIC REDUCER
	EJ	EXPANSION JOINT
F	FD	FIRE DAMPER
	FDC	FIRE DEPARTMENT CONNECTION
	FHC	FIRE HOSE RACK AND CABINET
	FH	FIRE HYDRANT
FS	FS	FIRE/SMOKE DAMPER
	---	FLEXIBLE CONNECTOR
	---	FLOAT & THERMOSTATIC TRAP
	FD	FLOOR DRAIN
	FS	FLOOR SINK
	---	FLOW ARROW
FE	---	FLOW ELEMENT
	FLV	FLOW LIMITING VALVE
FS	FS	FLOW SWITCH
	GCK	GAGE COCK

SYMBOLS LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	GSCK, PC	GAS COCK, PLUG COCK
	GM	GAS METER
	GPR	GAS PRESSURE REGULATOR
	---	GATE VALVE WITH HOSE ADAPTER
	---	GATE VALVE
	---	GLOBE VALVE
	HD	HOPPER DRAIN
	HB	HOSE BIBB
	HB	HOSE BIBB
H X	H	HUMIDISTAT
	---	INVERTED BUCKET TRAP
	---	LIMIT OF DEMOLITION
	---	MANUAL AIR VENT
	---	MODULATING CONTROL VALVE
	---	PIPE BREAK
	---	PIPE CAP
	---	PIPE DOWN
	---	PIPE GUIDE
	---	PIPE UP
	---	POINT OF CONNECTION
	PIV	POST INDICATOR VALVE
	PRV	PRESSURE REGULATING VALVE
	---	PRESSURE RELIEF VALVE
	---	REDUCER
SD	SD	SMOKE DAMPER
SD	SKD	SMOKE DETECTOR
	---	SOLENOID VALVE
	---	STRAINER
TS X	TS	TEMPERATURE SENSOR
	---	TEST PLUG
	---	THERMOMETER
T X	T	THERMOSTAT
	TP	TRAP PRIMER
	---	TWO POSITION CONTROL VALVE
	---	UNION
	---	VALVE IN RISER/DROP
	VB	VALVE IN VALVE BOX
	---	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTOR
WM	WM	WATER METER

PLUMBING GENERAL NOTES

1. ACCESS PANELS SHALL BE PROVIDED AS NECESSARY TO PROPERLY ACCESS THE PLUMBING SYSTEM INCLUDING VALVES, REFER TO SPECIFICATION SECTION 08310.
2. OFFSET VENT THROUGH ROOFS 10'-0" MINIMUM FROM AIR INTAKES AND 4'-0" FROM OUTSIDE WALLS.
3. HVAC EQUIPMENT IS SHOWN FOR THE COORDINATION OF UTILITIES ONLY. REFER TO 'M' SHEETS FOR MORE INFORMATION.
4. THE CONNECTION OF NATURAL GAS LINES TO EQUIPMENT SHALL INCLUDE A LINE SIZE SHUT-OFF VALVE, UNION AND A MINIMUM 6" LONG DIRT LEG WITH ACCESSIBLE END CAP.
5. THE CONNECTION OF CONDENSATE DRAIN LINES TO HVAC EQUIPMENT SHALL INCLUDE A MINIMUM 4" DEEP "P"-TRAP AND PLUGGED TEE AT ALL OFFSETS.
6. PROVIDE WATER HAMMER ARRESTORS (WHA) AS INDICATED ON PLUMBING PLANS AND/OR AS DESCRIBED WITHIN DIVISION 22 SPECIFICATIONS. SIZING SHALL BE IN ACCORDANCE WITH PDI STANDARD WH-201.
7. FOR PIPES PASSING THROUGH, UNDER OR PARALLEL TO BUILDING FOOTINGS, RETAINING WALLS ETC. REFER TO STRUCTURAL DETAILS, 'S' SHEETS, FOR TYPICAL ARRANGEMENT.
8. CONTRACTOR SHALL FIELD VERIFY ALL POINTS OF CONNECTION TO SITE PIPING (LOCATIONS AND INVERT) PRIOR TO EXCAVATION, FABRICATION AND INSTALLATION OF ASSOCIATED PIPING RUNS. NOTIFY ARCHITECT AND OR ENGINEER IMMEDIATELY IF POINTS OF CONNECTION OR INVERTS ARE DIFFERENT THAN REPRESENTED ON THE DRAWINGS.
9. OFFSET ALL RISERS AND DROPS TO AVOID PENETRATIONS AT TOP PLATES.
10. PENETRATION OF PIPES, CONDUIT, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
11. SEAL ALL PIPE PENETRATIONS THRU FLOORS WATERTIGHT.
12. DRAWINGS SHALL BE CONSIDERED DIAGRAMMATIC ONLY. CONTRACTOR SHALL FIELD VERIFY WHERE POSSIBLE. EXACT LOCATIONS, SIZES, AND ELEVATIONS OF ALL ITEMS SHOWN PRIOR TO THE INSTALLATION OF ANY NEW WORK.
13. THE DRAWINGS ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT THE JOB SITE AND SHALL HAVE THE APPROVAL OF THE ARCHITECT BEFORE BEING INSTALLED.
14. ALL VALVES SHOWN SHALL BE FULL LINE SIZE UNLESS OTHERWISE NOTED.
15. CLOSELY COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO TRENCHING OR INSTALLATION OF NEW. IDENTIFY SIZE AND LOCATIONS OF ALL PENETRATIONS THROUGH FOUNDATIONS, WALLS OR ROOFS PRIOR TO FABRICATION OF ANY SYSTEMS OR ORDERING MATERIALS AFFECTED BY POSSIBLE COORDINATION CONFLICTS.
16. CONCRETE ANCHORS SHALL BE HILTI, KWIK BOLT TZ 3/8" WITH EMBEDMENT AS PER STRUCTURAL PLAN, SXXX. ANCHORS SHALL BE TESTED PER IR 19-1, INTERPRETIVE REGULATION FOR EXPANSION ANCHORS IN HARDENED CONCRETE. ANCHOR TEST SHALL BE 968 LBS. TENSION.
17. PIPING SHALL BE SUPPORTED AND BRACED IN STRICT COMPLIANCE WITH DIVISION 22 SPECIFICATIONS.
18. PENETRATION OF PIPES, CONDUITS, ETC., IN WALLS AND/OR FLOORS REQUIRING PROTECTED OPENINGS SHALL BE FIRE STOPPED. MATERIAL SHALL BE A TESTED ASSEMBLY APPROVED BY THE STATE FIRE MARSHAL.
19. ALL NEW SANITARY WASTE PIPING SHOWN SHALL BE SLOPED AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED ON PLANS. WHERE SLOPES LESS THAN 1/4" PER FOOT ARE INDICATED, CONTRACTOR SHALL SLOPE NEW PIPING UNIFORMLY BETWEEN UPPER TERMINAL OF PIPE AND THE POINT OF CONNECTION TO THE SITE PIPING (AS INDICATED ON THE CIVIL PLANS) TO ACHIEVE MAXIMUM SLOPE POSSIBLE AND IN NO CASE SHALL THE PIPING BE SLOPED LESS THAN THE MINIMUM INDICATED.
20. CONCEAL ALL PIPING IN WALL FURRING, PARTITIONS, ETC., EXCEPT AT MECHANICAL ROOMS.
21. REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS AND EXACT LOCAITONS OF PLUMBING FIXTURES.

MEP COMPONENT ANCHORAGE NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN ASCE7-16 CHAPTERS 13, 29, AND 30, AND WHERE MODIFIED BY 2022 CBC CHAPTER 16.

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
3. MOVABLE EQUIPMENT THAT IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF THAT DIRECTLY SUPPORT THE EQUIPMENT ARE TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTION SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK & ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTION 13.6.5, 13.6.6, 13.6.7, AND WHERE MODIFIED BY 2022 CBC CHAPTER 16.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPM #)

COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING THE BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

Draft

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ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
PLUMBING LEGENDS & NOTES

SHEET
P-001

V1

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PLUMBING FIXTURE CONNECTION SCHEDULE

ADA	SYMBOL	FIXTURE	FIXTURE MANUFACTURER AND MODEL No.	FAUCET OR VALVE MANUFACTURER AND MODEL No.	TRIM MANUFACTURER AND MODEL No.	REMARKS	VENT	WASTE		COLD WATER		HOT WATER	
								BRANCH	OUTLET	BRANCH	OUTLET	BRANCH	OUTLET
	WC-1	WATER CLOSET FLOOR MOUNTED FLUSH VALVE ADA	"KOHLER" HIGHCLIFF NO. K-96057-SS, FLOOR MOUNTED, ELONGATED, SIPHON JET ACTION 1-1/2" TOP SPUD, 16-7/8" RIM HEIGHT, 1.28 GPF, ANTIMICROBIAL.	"SLOAN" ROYAL OPTIMA SMOOTH 111-1.28 ADA COMPLIANT, 1.28 GPF (BATTERY SIDE)	SEAT: "CHURCH" MODEL 295SSCT OR "BEMIS" MODEL 1955SSCT. PROVIDE WITH SELF-SUSTAINING CONCEALED CHECK HINGES, ONE PIECE STEEL POST HINGES, WHITE COLOR.	WHERE USED FOR CBC ACCESSIBLE WATER CLOSETS, THE FLUSH VALVE HANDLE SHALL BE MOUNTED ON THE WIDE SIDE OF THE WATER CLOSET ENCLOSURE.	2"	4"	4"	1-1/4"	1"	-	-
	WC-2	WATER CLOSET FLOOR MOUNTED, SECURITY FLUSH VALVE REAR ACCESS, ADA	"WILLOUGHBY" MODEL ETW-1490-FM-BS-HC-1.28GPF-HET-TWE-TWC4C-ET4-EFVP-FVT-TF24H-WS FLOOR MOUNTED WATER CLOSET, 1.28 GPF, TYPE 304 STAINLESS STEEL, ELONGATED BOWL, WALL SUPPLY, BLOWOUT TYPE, 18" INTEGRAL SEAT HEIGHT FOR ADA.	PROVIDE "SLOAN" REGAL XL FLUSHOMETER MODEL 9603-1.28 W/ RHY97ALC (WILLOUGHBY P/N: 320640), CONCEALED, HYDRAULICALLY ACTIVATED, 1.28 GPF, ADA COMPLIANT, ROUGH BRASS FINISH, NON-HOLD-OPEN PUSH BUTTON, PROVIDE WITH "WILLOUGHBY" 120V TO 24v FUSED TRANSFORMER.		PROVIDE "WILLOUGHBY" WMS-II PROGRAMMABLE CONTROL, NON-NETWORKED. DIV. 22 SHALL PROVIDE 120V TRANSFORMER AND ALL LOW-VOLTAGE WIRING. SEE ELECTRICAL PLANS FOR LOCATION OF 120V CIRCUIT.	2"	4"	4"	1-1/4"	1"	-	-
	WC-3	WATER CLOSET FLOOR MOUNTED, SECURITY FLUSH VALVE FRONT ACCESS, ADA	"WILLOUGHBY" MODEL ETW-1490-FM-FA-BS-HC-1.28GPF-HET-GWC-ET4-EFVP-FVT-TF24H-AP FLOOR MOUNTED WATER CLOSET, FRONT ACCESS, 1.28 GPF, TYPE 304 STAINLESS STEEL, BACK SPUD ELONGATED BOWL, WALL SUPPLY, SIPHON JET TYPE, 18" INTEGRAL SEAT HEIGHT FOR ADA.	PROVIDE "SLOAN" REGAL XL FLUSHOMETER MODEL 9603-1.28 W/ RHY97ALC (WILLOUGHBY P/N: 320640), CONCEALED, HYDRAULICALLY ACTIVATED, 1.28 GPF, ADA COMPLIANT, ROUGH BRASS FINISH, NON-HOLD-OPEN PUSH BUTTON, PROVIDE WITH "WILLOUGHBY" 120V TO 24v FUSED TRANSFORMER.		PROVIDE "WILLOUGHBY" WMS-II PROGRAMMABLE CONTROL, NON-NETWORKED. DIV. 22 SHALL PROVIDE 120V TRANSFORMER AND ALL LOW-VOLTAGE WIRING. SEE ELECTRICAL PLANS FOR LOCATION OF 120V CIRCUIT.	2"	4"	4"	1-1/4"	1"	-	-
	UR-1	URINAL WALL MOUNTED FLUSH VALVE ADA	"KOHLER" BARDON 1/8 GPF NO. K-4991-ET WALL HUNG, VITREOUS CHINA, SIPHON JET ACTION. 3/4" TOP SPUD, 2" THREADED OUTLET.	"SLOAN" ROYAL OPTIMA SMOOTH 186 HEU 0.125 GPF (BATTERY SIDE).	CARRIER: "J.R. SMITH" 637 SERIES OR "ZURN" Z1222	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CLEANOUT FOR EACH FIXTURE.	1-1/2"	2"	2"	1"	3/4"	-	-
	WC/L-1	WATER CLOSET/LAVATORY COMBINATION UNIT, REAR ACCESS, FLOOR MOUNTED, SEC, FLUSH VALVE, ADA	"WILLOUGHBY" MODEL 4896, ELONGATED BOWL, 14 GAUGE STAINLESS STEEL, ON-FLOOR, WALL OUTLET, PAPER HOLDER, BLOWOUT JET ACTION, 18" RIM HEIGHT.	PROVIDE "SLOAN" REGAL XL FLUSHOMETER MODEL 9603-1.28 W/ RHY97ALC (WILLOUGHBY P/N: 320640), CONCEALED, HYDRAULICALLY ACTIVATED, 1.28 GPF, ADA COMPLIANT, ROUGH BRASS FINISH, NON-HOLD-OPEN PUSH BUTTON, PROVIDE WITH "WILLOUGHBY" 120V TO 24v FUSED TRANSFORMER.		LAVATORY BOWL: RECTANGULAR BOWL 14" x 9-1/2" x 6" DEEP. PROVIDE WITH HEMISPHERICAL PENAL BUBBLER, -PZP6 PUSHBUTTON VALVES FOR COLD & TEMPERED WATER, ET4 ELECTRONIC TOILET OVERFLOW PREVENTER OPTION, SUICIDE PREVENTION SKIRT, WALL SLEEVE. PROVIDE SUICIDE RESISTANT 36" GRAB BAR CLOSURE PLATE (-ASGB36). PROVIDE "WILLOUGHBY" WMS-II PROGRAMMABLE CONTROL, NON-NETWORKED. DIV. 22 SHALL PROVIDE 120V TRANSFORMER AND ALL LOW-VOLTAGE WIRING. SEE ELECTRICAL PLANS FOR LOCATION OF 120V CIRCUIT.	2"	4"	4"	1-1/4"	1"	3/4"	1/2"
	WC/L-2	WATER CLOSET/LAVATORY COMBINATION UNIT WALL MOUNTED, SECURITY FLUSH VALVE	"WILLOUGHBY" MODEL 1546, ELONGATED BOWL, 14 GAUGE STAINLESS STEEL, ON-FLOOR, WALL OUTLET, PAPER HOLDER, BLOWOUT JET ACTION. 15" RIM HEIGHT.	PROVIDE "SLOAN" REGAL XL FLUSHOMETER MODEL 9603-1.28 W/ RHY97ALC (WILLOUGHBY P/N: 320640), CONCEALED, HYDRAULICALLY ACTIVATED, 1.28 GPF, ADA COMPLIANT, ROUGH BRASS FINISH, NON-HOLD-OPEN PUSH BUTTON, PROVIDE WITH "WILLOUGHBY" 120V TO 24v FUSED TRANSFORMER.		LAVATORY BOWL: 'D' BOWL 12-3/4" x 8-1/4" x 5" DEEP. PROVIDE WITH HEMISPHERICAL PENAL BUBBLER, -PZP8 PUSHBUTTON VALVES FOR COLD & TEMPERED WATER, ET4 ELECTRONIC TOILET OVERFLOW PREVENTER OPTION, PAPER HOLDER, SUICIDE PREVENTION SKIRT, WALL SLEEVE. PROVIDE SUICIDE RESISTANT 36" GRAB BAR CLOSURE PLATE (-ASGB36), LAVATORY CLOSURE PLATE (LVCP). PROVIDE "WILLOUGHBY" WMS-II PROGRAMMABLE CONTROL, NON-NETWORKED. DIV. 22 SHALL PROVIDE 120V TRANSFORMER AND ALL LOW-VOLTAGE WIRING. SEE ELECTRICAL PLANS FOR LOCATION OF 120V CIRCUIT.	2"	4"	4"	1-1/4"	1"	3/4"	1/2"
	FT-1	FLOOR TOILET FLOOR MOUNTED FLUSH VALVE	"WILLOUGHBY" SERIES FD-1400, DETOX TOILET, BLOWOUT JET TYPE WITH FLUSH VALVE, REMOTE FLUSHING, 1.6 GPF, 14 GAUGE SS, CONCEALED WALL BOX.	FLUSH VALVE: "SLOAN" ROYAL PRISON MODEL 603-ESM-1.6, 1.6 GPF, CONCEALED, NON-HOLD OPEN PUSH BUTTON, ELECTRONIC OPERATED. 1-1/2" INLET, 24 VAC SOLENOID OPERATOR, PROVIDE FLUSH CONNECTION LENGTH SUITABLE FOR FLOOR TOILET LOCATION.	PROVIDE "SLOAN" MODEL MCR 4004 CONTROL MODULE, ONE PER FLOOR TOILET, ADJUSTABLE LOCK-OUT TIME UP TO FOUR FLUSH VALVES. MOUNT CONTROL MODULE WITHIN PIPE CHASE AT READILY AVAILABLE ACCESSIBLE LOCATION. DIV. 22 SHALL PROVIDE 120V TRANSFORMER AND ALL LOW-VOLTAGE WIRING. SEE ELECTRICAL PLANS FOR LOCATION OF 120V CIRCUIT. PROVIDE WATER HAMMER ARRESTOR, SIZE PER PDI.	PROVIDE (1) "SLOAN" MCR 60-A REMOTE PUSHBUTTON. THE PUSHBUTTON (VARIATION-1) SHALL BE MOUNTED AT OUTSIDE OF SAFETY CELL WALL WITH WIRE RUNNING WITHIN CMU CAVITY. PROVIDE WIRE SPLITTER AND SINGLE WIRE EXTENSION AS NECESSARY TO CONTROL MODULE. SEE PLANS FOR BUTTON LOCATIONS.	2"	4"	4"	1-1/4"	1"	-	-
	L-1	LAVATORY WALL MOUNTED ADA	"KOHLER" KINGSTON NO. K-2005 WALL HUNG, VITREOUS CHINA WITH CONTOURED BACK AND SIDE SPLASH SHIELDS, FRONT OVERFLOW, CONCEALED ARM RECESS, 4" CENTERS, 21-1/4" x 18-1/8" D SHAPED BOWL.	"CHICAGO" 3600-E2805AB FAUCET, PUSH LEVER WITH AERATOR WITH 0.5 GPM FLOW RATE. WITH VANDAL RESISTANT ECONO-FLO SPRAY OUTLET. WITH IPS CONNECTIONS, ADA COMPLIANT.	ADA COMPLIANT. LAVATORY GRID DRAIN WITH 1-1/4" OFFSET TAILPIECE, INTEGRAL PERFORATED GRID NO. 7723.018, CHROME FINISH. MOUNT P-TRAP FLUSH TO WALL, AND PROVIDE INSULATED DRAIN PIPING. CARRIER: "J.R. SMITH" 0700 OR "ZURN" Z1231	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE CONCEALED ARMS AND FLOOR SUPPORT, WITH FEET OF SUPPORT SECURELY ANCHORED TO FLOOR. IN ADDITION ANCHOR TOP OF SUPPORT TO WALL CONSTRUCTION.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	L-2	LAVATORY WALL MOUNTED SECURITY REAR ACCESS, ADA	"WILLOUGHBY" MODEL HS-1013-46-HC-SBPH-E1L2-PZPB-EB-LW1-TF24H-WS, 18" WIDE, REAR MOUNTED, 304 STAINLESS STEEL, HANDICAP-ADA COMPLIANT LAVATORY, PROVIDE WITH SECURITY LIGATURE-RESISTANT PENAL BUBBLER/FILLER, DUAL TEMP. ELECTRONIC METERING VALVE, PIEZO ELECTRONIC PUSH BUTTONS, AND THRU WALL WASTE CONNECTION W/ P-TRAP.			PROVIDE FACTORY WALL SLEEVE AND CONCRETE WALL MOUNTING TEMPLATE. PROVIDE "WILLOUGHBY" WMS-II PROGRAMMABLE CONTROL, NON-NETWORKED. DIV. 22 SHALL PROVIDE 120V TRANSFORMER AND ALL LOW-VOLTAGE WIRING. SEE ELECTRICAL PLANS FOR LOCATION OF 120V CIRCUIT.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	S-1	SINK COUNTER MOUNTED ADA	"ELKAY" MODEL LRAD01720-65, 20" FRONT TO BACK, 17" WIDE x 6-1/2" DEPTH OVERALL. 18 GAUGE STAINLESS STEEL, LEDGE BACK WITH SELF-RIM. PROVIDE SINGLE HOLE, PROVIDE REAR DRAIN LOCATION. PROVIDE FACTORY ADHERED VANDAL RESISTANT BACKING PLATE AT FAUCET, AND SLOT AT FAUCET FOR VANDAL RESISTANT PINS.	"CHICAGO" ECAST 50-E35-317ABCP FAUCET, 1.5 GPM, 4" WRISTBLADE HANDLE, GN2A 5-1/4" RIGID/SWING GOOSENECK SPOUT, POLISHED CHROME FINISH, CERAMIC MIXING CARTRIDGE, VOLUME CONTROL, INTEGRAL WATER-HAMMER ARRESTOR, 3/8" COPPY SUPPLY TUBE INLETS.	"ELKAY" MODEL LKAD35, OFFSET CRUMB CUP STRAINER WITH REMOVABLE BASKET AND P-TRAP. INSTALL P-TRAP FLUSH TO WALL.	PROVIDE CLEANOUT FOR EACH FIXTURE.	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
	SS-1	SERVICE SINK FLOOR MOUNTED	"FLORESTONE" MODEL 87, 24" x 24" x 12" DEEP, FLOOR MOUNTED, TERRAZZO, WITH STAINLESS CAP.	"CHICAGO" MODEL 540-LD-897-SWX FAUCET 8" O.C. WITH LEVER HANDLES, CHROME FINISH, VACUUM BREAKER, TOP BRACE, PAIL HOOK AND 3/4" HOSE THREAD OUTLET AND CAST IRON TRAP.	"FIAT" MODEL 1453-BB STRAINER, PROVIDE SUITABLE BLOCKING FOR TOP BRACE AS PART OF ROUGH-IN FOR FAUCET WITH P-TRAP.	PROVIDE "FIAT" MODEL 832-AA HOSE & BRACKET AND "FIAT" MODEL 889-CC MOP RACK.	2"	3"	3"	3/4"	3/4"	3/4"	3/4"
	SH-1	SHOWER WALL MOUNTED SECURITY, FRONT ACCESS ADA	"WILLOUGHBY" MODEL WRS-FA-ADA-E1L1-MA2-PZPB-WMS II-CSH-2HD, FRONT MOUNTED WALL SHOWER WITH TWO FIXED 1.5 GPM SHOWER HEADS, FRONT ACCESS, 14 GAUGE 304 STAINLESS STEEL, ADA COMPLIANT.	PROVIDE WITH SINGLE TEMP ELECTRONIC VALVE, LIGATURE-RESISTANT ELECTRONIC PIEZO PUSH BUTTONS, AND CONNECTION TO HARD WIRED TRANSFORMER (110VAC TO 24VAC).		MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE "WILLOUGHBY" WMS-II PROGRAMMABLE CONTROL, NON-NETWORKED. DIV. 22 SHALL PROVIDE 120V TRANSFORMER AND ALL LOW-VOLTAGE WIRING. SEE ELECTRICAL PLANS FOR LOCATION OF 120V CIRCUIT.	-	-	-	3/4"	1/2"	3/4"	1/2"
	SH-2	SHOWER WALL MOUNTED SECURITY, REAR ACCESS ADA	"WILLOUGHBY" MODEL WRS-ADA-PZPB-WUSC-WMS II-CSH-HL-WS, REAR MOUNTED WALL SHOWER WITH TWO FIXED 1.5 GPM SHOWER HEADS, REAR ACCESS, 14 GAUGE 304 STAINLESS STEEL, ADA COMPLIANT.	PROVIDE WITH SINGLE TEMP ELECTRONIC VALVE, LIGATURE-RESISTANT ELECTRONIC PIEZO PUSH BUTTONS, AND CONNECTION TO HARD WIRED TRANSFORMER (110VAC TO 24VAC).		MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE "WILLOUGHBY" WMS-II PROGRAMMABLE CONTROL, NON-NETWORKED. DIV. 22 SHALL PROVIDE 120V TRANSFORMER AND ALL LOW-VOLTAGE WIRING. SEE ELECTRICAL PLANS FOR LOCATION OF 120V CIRCUIT.	-	-	-	3/4"	1/2"	3/4"	1/2"
	SH-3	SHOWER SURFACE MOUNTED ADA	"SYMMONS" SAFETYMIX 1-117-FS SHOWER SYSTEM WITH FIXED HEAD AND HAND SHOWER. SYSTEM INCLUDES ADA COMPLIANT TEMPERATURE MIXING CONTROL VALVE WITH LEVER HANDLE AND ADJUSTABLE TEMPERATURE STOP, LEVER HANDLE DIVERTER VALVE, FIXED POSITION UPPER SHOWERHEAD AND HAND SHOWER WAND WITH WALL HOOK. 1.5 GPM.		MOUNT BOTH SHOWER HEADS AT HEIGHT INDICATED ON ARCHITECTURAL PLANS.		-	-	-	3/4"	1/2"	3/4"	1/2"
	DF-1	DRINKING FOUNTAIN WALL MOUNTED DUAL HEIGHT ADA	"ELKAY" EZH20 MODEL VRCTLBWSK, DUAL HEIGHT BOTTLE FILLING STATION WITH BI-LEVEL FILTERED, REFRIGERATED. STAINLESS STEEL, VANDAL RESISTANT, ADA COMPLIANT.		WITH P-TRAP	115V AND 60HZ, 1.0 FLA, 370 WATTS.	1-1/2"	2"	2"	3/4"	1/2"	-	-
	DF-2	DRINKING FOUNTAIN WALL MOUNTED SINGLE HEIGHT SECURITY, ADA	"WILLOUGHBY" MODEL WBDF-1519-HC, SINGLE HEIGHT DRINKING FOUNTAIN WITH BI-LEVEL FILTERED, NON-REFRIGERATED MODEL. STAINLESS STEEL, LIGATURE-RESISTANT, REAR MOUNTED, ADA COMPLIANT.		WITH P-TRAP	MOUNT AT HEIGHT INDICATED ON ARCHITECTURAL DRAWINGS.	1-1/2"	2"	2"	3/4"	1/2"	-	-
		HB-1	HOSE BIBB	"WOODFORD" B24 WALL MOUNTED BRASS CONCEALED BOX TYPE WITH LOCKABLE COVER.				-	-	-	3/4"	3/4"	-	-
		HB-2	HOSE BIBB	"WOODFORD" MODEL 27, EXTERIOR WALL MOUNT, NON-FREEZE, COLD WATER ONLY.		WITH INTEGRAL VACUUM BREAKER	PROVIDE RECESSED 16 GA. STAINLESS STEEL HINGED BOX WITH FULL 180° HINGED LOCKING COVER.	-	-	-	3/4"	3/4"		
		HB-3	HOSE BIBB	"WOODFORD" RHY2-MS, ROOF HYDRANT, ANTI FREEZE.			FOR ROOFTOP MOUNTING INSTALLATION.	-	-	-	3/4"	1/2"	-	-
		HB-4	HOSE BIBB	"WOODFORD" MODEL 22, EXTERIOR WALL MOUNT, NON-FREEZE, HOT & COLD WATER WITH MIXING VALVE.		WITH INTEGRAL VACUUM BREAKER	PROVIDE RECESSED 16 GA. STAINLESS STEEL HINGED BOX WITH FULL 180° HINGED LOCKING COVER.	-	-	-	3/4"	3/4"	3/4"	3/4"
		FD-1	FLOOR DRAIN	"ZURN" MODEL Z-415	TYPE "B" STRAINER FOR EXPOSED CONCRETE TYPE "S" STRAINER FOR TILE FLOOR TYPE "SL STRAINER FOR COMPOSITION FLOOR	PROVIDE FLASHING RING AND CLAMP AT FLOORS WITH WATER RESISTANT MEMBRANE. SET TOP OF DRAIN SLIGHTLY BELOW FLOOR TO INSURE DRAINAGE. INSTALL VENTED P-TRAP. WHERE TRAP PRIMERS ARE INDICATED PROVIDE PROPER CONNECTION TO P-TRAP.		2" 4"	2" 4"	2" 4"	-	-	-	-
		AD-1	AREA DRAIN	"ZURN" MODEL Z-415	TYPE "B" STRAINER FOR EXPOSED CONCRETE TYPE, VANDAL-PROOF SECUREED TOP	PROVIDE FLASHING RING AND CLAMP AT FLOORS WITH WATER RESISTANT MEMBRANE. SET TOP OF DRAIN SLIGHTLY BELOW FLOOR TO INSURE DRAINAGE.		6"	6"	-	-	-	-
		FS-1	FLOOR SINK	"ZURN" MODEL Z-1751 FOR GENERAL SPACES "ZURN" MODEL Z-1901-KC-2 FOR MECHANICAL SPACES		PROVIDE ANCHOR FLANGE, SEEPAGE PAN AND CLAMPING COLLAR. PROVIDE WHITE A.R.E. SEDIMENT BUCKET. PROVIDE 1/2 GRATE.	INSTALL FS FLUSH WITH FLOOR	2"	2" 3" 4"	2" 3" 4"	-	-	-	-
		TD-1	TRENCH DRAIN	"JR SMITH" MODEL 9960-MADA, 12" WIDE ZIP TRENCH DRAIN, GALVANIZED STEEL RAIL, HORIZONTAL OUTLET		HEAVY DUTY LOAD CLASS "C" 9960-MADA, DUCTILE IRON SLOTTED GRADE		-	4" 6"	4" 6"	-	-	-	-
		TP-1	TRAP PRIMER	"PPP" PRIME-RITE TRAP PRIMER VALVE, MODEL FVP-1VB FOR FLUSH VALVES	PROVIDE WITH VACUUM BREAKER.		INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE DISTRIBUTION UNIT WITH FEEDER PIPING FOR A MAX. OF FOUR TRAPS WHEN NEEDED. PROVIDE SURFACE MOUNT BOX IN CHASES & MECHANICAL ROOMS. PROVIDE RECESSED BOX WITH ACCESS DOOR ALL OTHER LOCATIONS.	-	-	-	1/2"	1/2"	-	-
		TP-2	ELECTRONIC TRAP PRIMER	"PPP" PRIME-RITE TRAP PRIMER VALVE, MODEL MP-500	PROVIDE BALL VALVE AT EACH TP LOCATION. PROVIDE 115V CONNECTION.		INSTALL PER MANUFACTURERS INSTRUCTIONS. PROVIDE DISTRIBUTION UNIT WITH FEEDER PIPING FOR A MAX. OF FOUR TRAPS WHEN NEEDED. PROVIDE SURFACE MOUNT BOX IN CHASES & MECHANICAL ROOMS. PROVIDE RECESSED BOX WITH ACCESS DOOR ALL OTHER LOCATIONS.	-	-	-	1/2"	1/2"	-	-
		RIM	REFRIGERATOR ICE MAKER	"GUY GRAY" MODEL SSIB2AB LEAD FREE ICE MAKER HOOK-UP, WITH 1/2" FIP INLET AND 1/4" COMPRESSION OUTLET	INTEGRAL	INTEGRAL	PROVIDE STAINLESS STEEL BOX AND STAINLESS STEEL FACE PLATE.	-	-	-	1/2"	1/4"	-	-
		RD/OF	ROOF DRAIN OVERFLOW	COMBINATION ROOF DRAIN AND OVERFLOW 4" DIA PIPE SIZE MAX. - "ZURN" MODEL Z165 5" DIA AND 6" DIA - "ZURN" MODEL Z164	SECURE DECK PLATE TO ROOF. PROVIDE 6" HIGH CAST IRON VANDAL PROOF DOME TYPE STRAINER INLET AND CLAMPING COLLARS FOR PRIMARY AND OVERFLOW. 2-5/16" FROM DECK PLATE TO OVERFLOW INLET.		PROVIDE CLEANOUT FOR EACH FIXTURE.	-	3" 4" 5" 6"	3" 4" 5" 6"	-	-	-	-

Draft

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
PLUMBING FIXTURE SCHEDULES

SHEET
P-002
V1

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PLUMBING EQUIPMENT SCHEDULE

UNIT	DESCRIPTION
GWH 1	GAS DOMESTIC HOT WATER HEATER "INTELLIHOT" MODEL IN401 CONDENSING WATER HEATER. MIN 30 MBH / MAX 399 MBH INPUT, MAX 383.9 MBH OUTPUT. 462 GPH @ 100° RISE, MODULATING BURNERS WITH 13.3:1 TURNDOWN, STAINLESS STEEL HEAT EXCHANGER, 120/60HZ/1PH, CONDENSATE NEUTRALIZATION KIT, 4" INLET AND FLUE. PROVIDE FACTORY PROPANE BURNER CONVERSION KIT. OPER WEIGHT = 500 LBS.
GWH 2	GAS DOMESTIC HOT WATER HEATER "INTELLIHOT" MODEL IN199 CONDENSING WATER HEATER. MIN 30 MBH / MAX 199 MBH INPUT, MAX 191.95 MBH OUTPUT. 462 GPH @ 100° RISE, MODULATING BURNERS WITH 7:1 TURNDOWN, STAINLESS STEEL HEAT EXCHANGER, 120/60HZ/1PH, CONDENSATE NEUTRALIZATION KIT, 4" INLET AND FLUE. PROVIDE FACTORY PROPANE BURNER CONVERSION KIT. OPER WEIGHT = 350 LBS.
ST 1	DOMESTIC HOT WATER STORAGE TANK "CEMLINE" STONESTEEL MODEL V140CST, 140 GALLON CAPACITY, 125 PSI WORKING PRESSURE, WITH SUPPORT SADDLE. OPER WEIGHT = 1,800 LBS.
ST 2	DOMESTIC HOT WATER STORAGE TANK "CEMLINE" STONESTEEL MODEL V390CST, 390 GALLON CAPACITY, 125 PSI WORKING PRESSURE, WITH SUPPORT SADDLE. OPER WEIGHT = 4,500 LBS.
CP 1 CP 2	DOMESTIC HOT WATER RECIRULATION PUMP "B&G" ECOCIRC MODEL XL 36-45, 15 GPM @ 20 FEET HEAD, ECM MOTOR, 1/16 HP, 115V/60HZ/1PH, 3A OPER WEIGHT = 10 LBS.
CP 3 CP 4	DOMESTIC HOT WATER RECIRULATION PUMP "B&G" ECOCIRC MODEL XL 36-45, 15 GPM @ 20 FEET HEAD, ECM MOTOR, 1/16 HP, 115V/60HZ/1PH, 3A OPER WEIGHT = 10 LBS.
TMV 1	THERMOSTATIC MIXING VALVE STATION - INMATE AREA "LEONARD" MEGATRON MODEL 3NB-LF, 58 GPM AT 110 DEGREES OUTLET TEMP, 1" INLETS AND OUTLET, OPER WEIGHT = 150 LBS.
TMV 2	THERMOSTATIC MIXING VALVE STATION - KITCHEN & LAUNDRY "LEONARD" MEGATRON MODEL 2NB-LF, 30 GPM AT 120 DEGREES OUTLET TEMP, 1" INLETS AND OUTLET, OPER WEIGHT = 150 LBS.
GI 1	GREASE INTERCEPTOR "JENSEN" MODEL XJZ4000EPE-G, 4,000 GALLON GREASE INTERCEPTOR, THREE (3) 24"DIA STANDARD MANHOLES, 6" INLET & OUTLET CONNECTIONS. 6"DIA INLET PIPE, 6"DIA OUTLET PIPE. PROVIDE 24"DIA CAST IRON FRAMES AND COVERS WITH GASTIGHT GASKETS AND THREE (3) RISERS AS NECESSARY. H-20 TRAFFIC RATED MANHOLES. DIMENSIONS: 16'-7" L x 7'-8" W x 6'-9" HT. "JENSEN" SAMPLE BOX MODEL EV200, 24" DIA CAST IRON FRAMES AND COVERS WITH GASTIGHT GASKETS, Z-LOC PIPE CONNECTOR, H-20 TRAFFIC RATED MANHOLES. 32" DIA. SEE DETAIL X/P-XXX. OPER WEIGHT = 51,000 LBS.
SI 1	SAND/OIL INTERCEPTOR "JENSEN" MODEL JP320EE-SO, 320 GALLON SAND/OIL INTERCEPTOR. PROVIDE SAMPLING BOX, GRADE RINGS, CAST IRON FRAMES AND GASKETS, H-20 TRAFFIC RATED LID. DIMENSIONS: 7'-0" LONG x 3'-0" WIDE x 4'-6" TALL
SG 1	SEWAGE GRINDER "PARKUSA" MAC-6 INLINE MACERATOR GRINDER ASSEMBLY. ASSEMBLY SHALL CONSIST OF THE FOLLOWING COMPONENTS: • "JWC" MODEL 30K MUFFIN MONSTER WITH 5 HP MOTOR • 12"x12" SUMP PUMP W/ FLOAT SWITCH • WATERPROOF PRE-CAST VAULT WITH SCREENED VENT, 36"x36" TRAFFIC-RATED HATCH • REMOTE CONTROL PANEL (SEE PLANS FOR LOCATION). ALL WIRING TO & FROM CONTROL PANEL BY DIV 26. • BYPASS AROUND SEWAGE GRINDER WITH KNIFE GATE VALVE ON OUTLET. • 6" INLETS AND OUTLETS DIMENSIONS: 10'-0" L x 6'-0" W x 6'-6" H ELECTRICAL: 480V/3ph POWER TO REMOTE CONTROL PANEL (SEE PLANS FOR LOCATION). PROVIDE DEDICATED CONDUITS WITH THE FOLLOWING WIRING CONNECTIONS, TERMINATED INSIDE VAULT: • 120V/1ph POWER TO HIGH LEVEL ALARM PANEL • 120V/1ph POWER TO SUMP PUMP • 230V/1ph POWER TO GRINDER FROM REMOTE CONTROL PANEL • PROVIDE CURRENT SENSOR ON GRINDER ALARM CIRCUIT. PROVIDE RELAY AND CONNECTION TO SECURITY ELECTRONICS SYSTEM FOR MONITORING OF GRINDER AT "223 - CENTRAL CONTROL". DIV. 22 SHALL COORDINATE WITH SECURITY ELECTRONICS CONTRACTOR TO PROVIDE WIRED INTERCONNECTION AND ALARM AT OPERATOR INTERFACE. OPER. WEIGHT = 24,000 LBS.

DOMESTIC WATER SIZING CHART

(BASED ON 4 PSI DROP/100 FEET)

GPM	MIN. PIPE SIZE	COMMENTS:
0 - 2	1/2"	PIPE SIZES BASED ON MAX. OF 7.5 FPS FLOW VELOCITY
3 - 6	3/4"	
7 - 14	1"	
15 - 20	1-1/4"	
21 - 33	1-1/2"	
34 - 66	2"	
67 - 99	2-1/2"	
100 - 155	3"	
156 - 196	3-1/2"	
197 - 265	4"	
266 - 390	5"	
391 - 600	6"	

Draft

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PM - DESIGN TEAM	PROJECT NO.

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M 33498
EXPIRES 9/30/24
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SEPTEMBER 11, 2023

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TITLE
PLUMBING SCHEDULES

SHEET
P-003
V1

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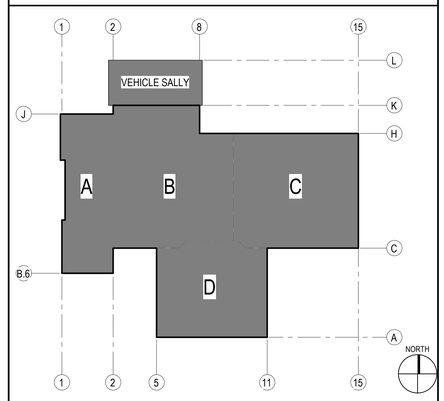
1 / P-101 PLUMBING SITE PLAN

SCALE: 1/16" = 1'-0"

Draft

KEY PLAN



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PLUMBING SITE PLAN

SHEET

P-101

V1

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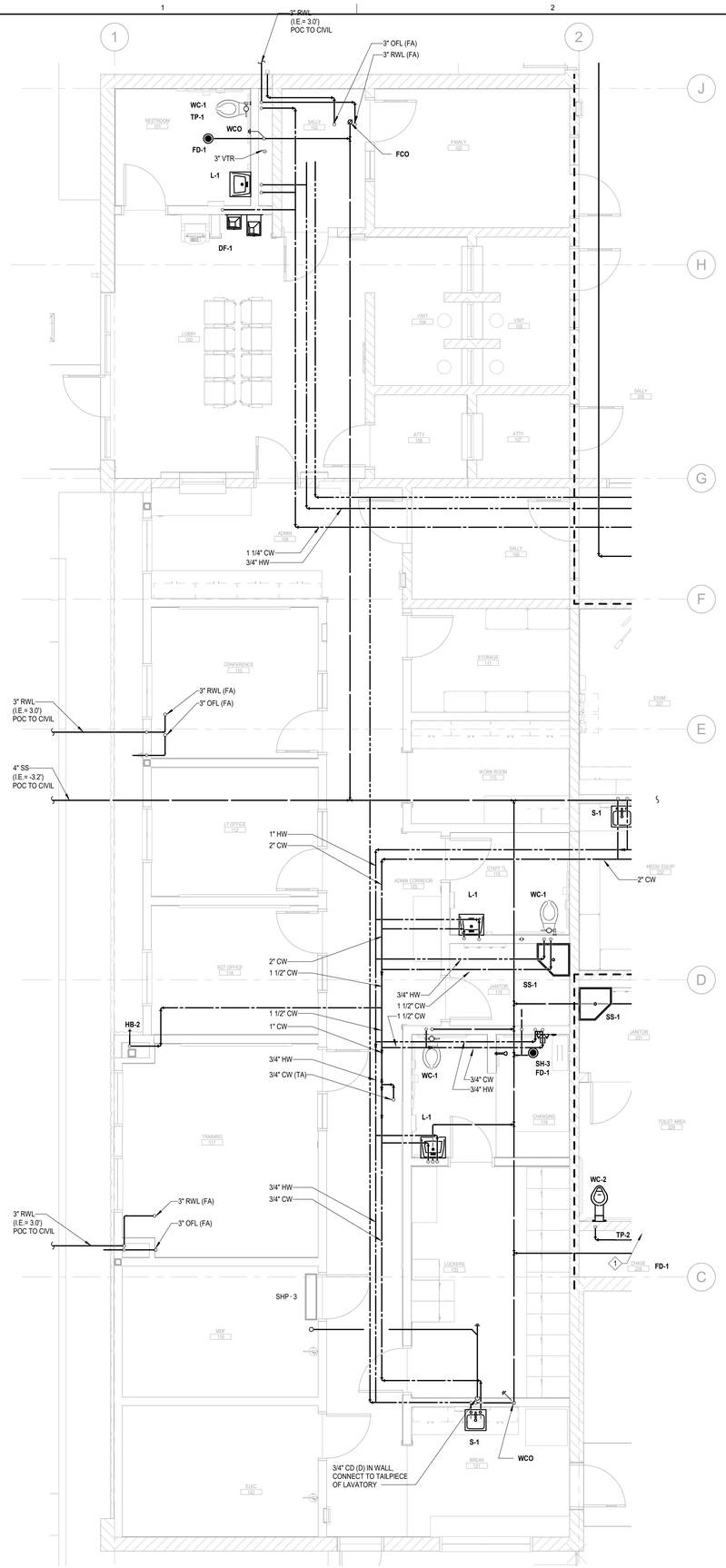
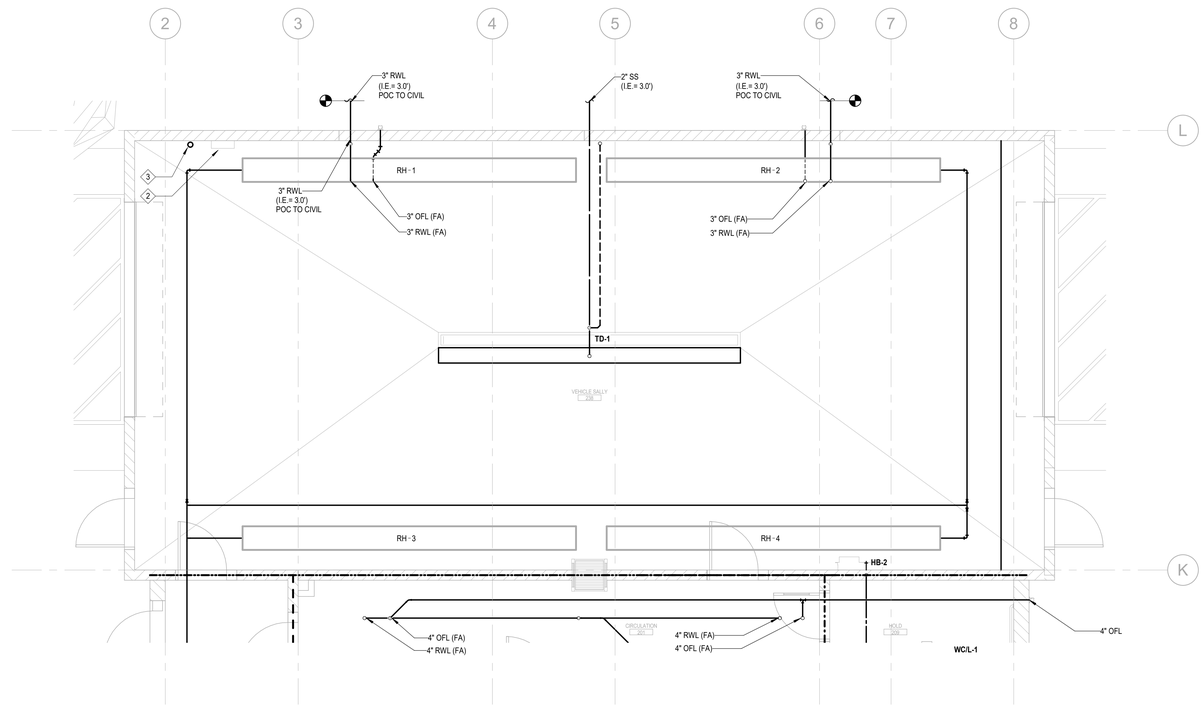


1 P-201A PLUMBING FLOOR PLAN - LEVEL 1 - AREA A

SCALE: 1/4" = 1'-0"



2 P-201A PLUMBING FLOOR PLAN - LEVEL 1 - VEHICLE SALLY

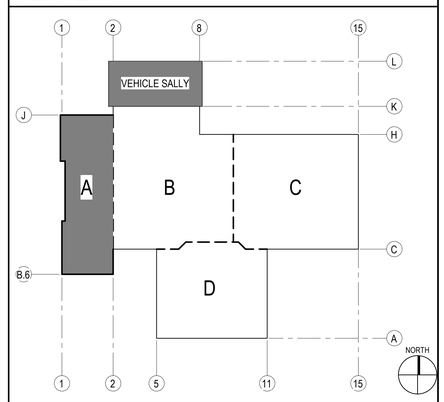
SCALE: 1/4" = 1'-0"

KEYNOTES:

1. PROVIDE (1) NON-NETWORKED PROGRAMMABLE "WILLOUGHBY" CVD IN PLUMBING CHASE FOR EVERY (6) CONTROLLED VALVES. DIV. 22 SHALL PROVIDE TRANSFORMER AND ALL LOW VOLTAGE WIRING TO NEAREST TRANSFORMER. OBSERVE MANUFACTURER'S LINE LENGTH LIMITATIONS FOR ALL LOW VOLTAGE WIRING AND PROVIDE ADDITIONAL TRANSFORMERS AS NEEDED. SEE ELECTRICAL PLANS FOR 120V CIRCUIT LOCATIONS.
2. PROVIDE SEWAGE GRINDER CONTROL PANEL WITH LOCKING CABINET. DIVISION 22 CONTRACTOR SHALL COORDINATE ROUTING OF POWER AND DATA TO SEWAGE GRINDER (REFER TO CIVIL SITE UTILITY PLANS C-203 FOR LOCATION).
3. PROVIDE "TOXALERT" TOX-COMBI/ANA COMBUSTIBLE GAS DETECTOR. DIVISION 22 CONTRACTOR SHALL COORDINATE WITH DIV 26 AND TEMPERATURE CONTROLS CONTRACTOR TO PROVIDE TRANSFORMER, ROUTE LOW VOLTAGE POWER, AND ROUTE CONTROL WIRE TO NETWORKED CONTROLLER IN MECH 115.

   DETECTOR SHALL ALARM REMOTELY VIA EMS. SEE HVAC CONTROL SHEETS, SHEET SERIES M-6XX.
4. NOT USED
5. 3/4" CONDENSATE DRAIN FROM ROOFTOP UNIT ABOVE, (D) IN WALL AND DRAIN TO TAILPIECE OF LAVATORY OR SINK

KEY PLAN



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TITLE
PLUMBING FLOOR PLAN - LEVEL 1 - AREA A

SHEET
P-201A

V1

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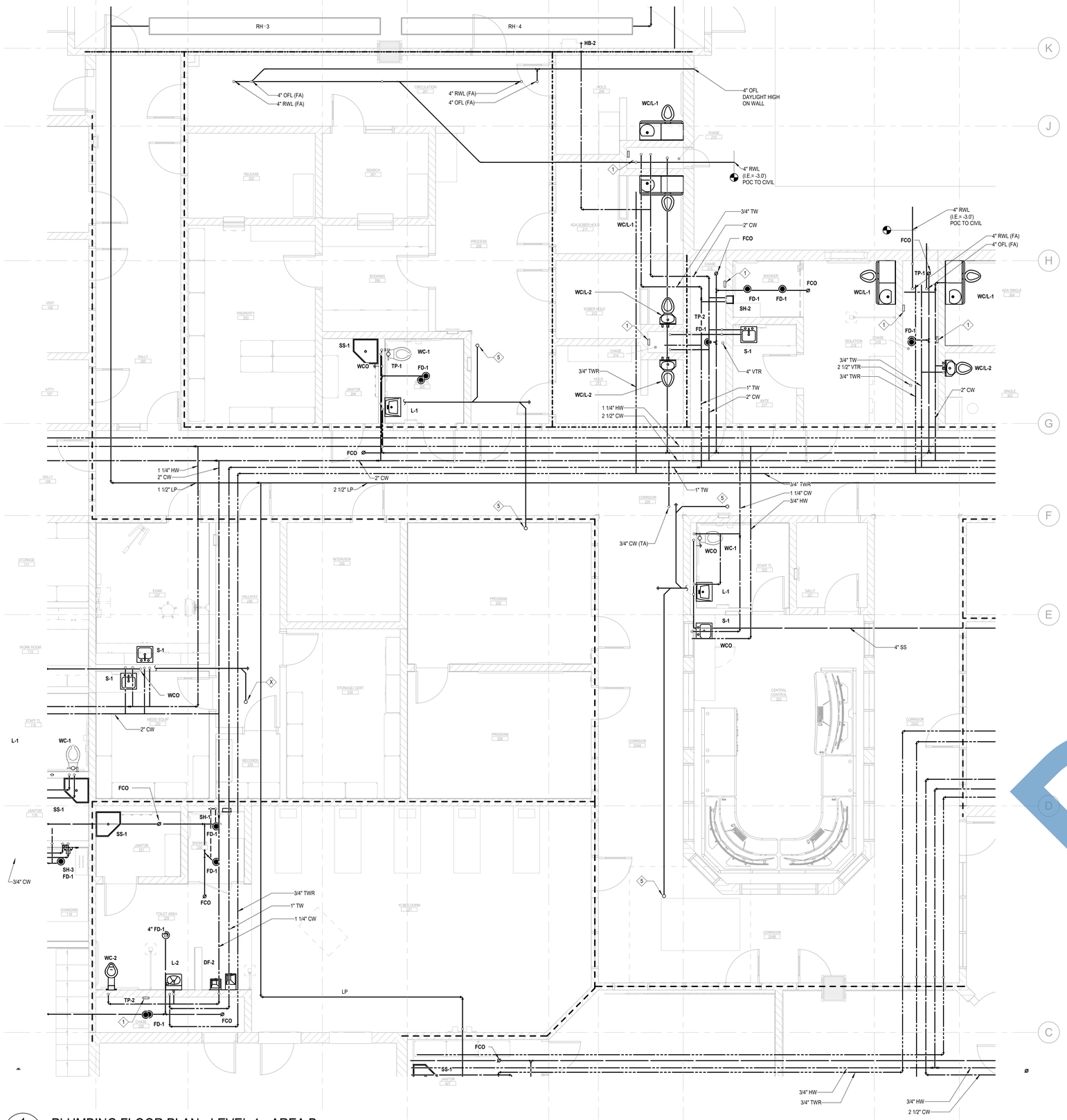


1 P-201B PLUMBING FLOOR PLAN - LEVEL 1 - AREA B

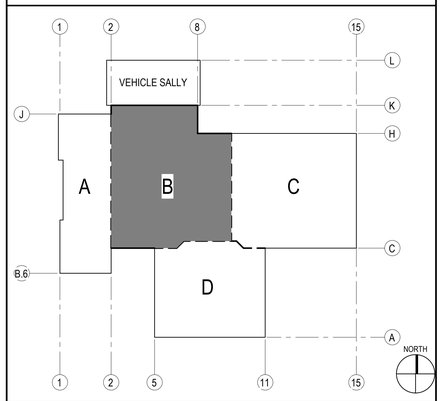
SCALE: 1/4" = 1'-0"

KEYNOTES:

1. PROVIDE (1) NON-NETWORKED PROGRAMMABLE "WILLOUGHBY" CVC IN PLUMBING CHASE FOR EVERY (6) CONTROLLED VALVES. DIV. 22 SHALL PROVIDE TRANSFORMER AND ALL LOW VOLTAGE WIRING TO NEAREST TRANSFORMER. OBSERVE MANUFACTURER'S LINE LENGTH LIMITATIONS FOR ALL LOW VOLTAGE WIRING AND PROVIDE ADDITIONAL TRANSFORMERS AS NEEDED. SEE ELECTRICAL PLANS FOR 120V CIRCUIT LOCATIONS.
2. NOT USED
3. NOT USED
4. NOT USED
5. 3/4" CONDENSATE DRAIN FROM ROOFTOP UNIT ABOVE, (D) IN WALL AND DRAIN TO TAILPIECE OF LAVATORY OR SINK

Draft

KEY PLAN



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TITLE
PLUMBING FLOOR PLAN - LEVEL 1 - AREA B

SHEET
P-201B

V1

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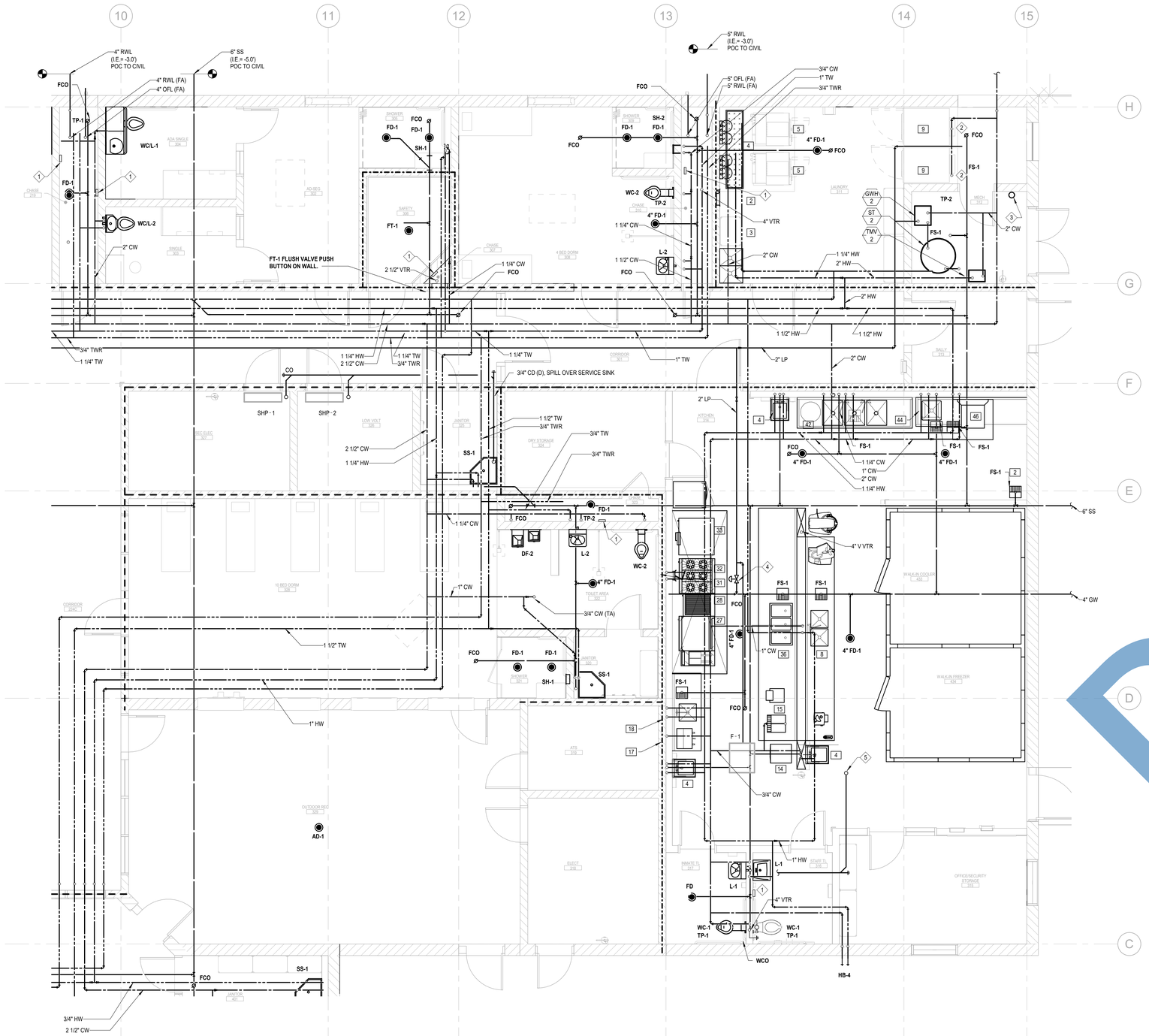


1 P-201C PLUMBING FLOOR PLAN - LEVEL 1 - AREA C

SCALE: 1/4" = 1'-0"

SHEET NOTES:

1. FOR FINAL CONNECTION TO FOOD SERVICE AND LAUNDRY FIXTURES, REFER TO FS/L SHEET SERIES. INDICATED XXX SYMBOL IS PROVIDED AS A REFERENCE ONLY TO FIXTURE SCHEDULES SHOWN ON THOSE SHEETS.

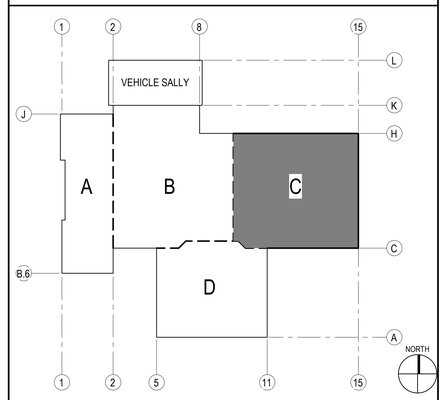
KEYNOTES:

1. PROVIDE (1) NON-NETWORKED PROGRAMMABLE "WILLOUGHBY" CVC IN PLUMBING CHASE FOR EVERY (6) CONTROLLED VALVES. DIV. 22 SHALL PROVIDE TRANSFORMER AND ALL LOW VOLTAGE WIRING TO NEAREST TRANSFORMER. OBSERVE MANUFACTURER'S LINE LENGTH LIMITATIONS FOR ALL LOW VOLTAGE WIRING AND PROVIDE ADDITIONAL TRANSFORMERS AS NEEDED. SEE ELECTRICAL PLANS FOR 120V CIRCUIT LOCATIONS.
2. PROVIDE 3/4" CW DROP TO EACH DRYER AND TO PRE-PLUMBED LINT COLLECTOR EMERGENCY FIRE CONTROL ACCESSORY. PROVIDE SHUTOFF VALVE AND BACKFLOW PREVENTER OVERHEAD, UPSTREAM OF ALL DROPS. COORDINATE FINAL LOCATION WITH LAUNDRY EQUIPMENT CONTRACTOR.
3. PROVIDE "TOXALERT" TOX-COMB/ANA COMBUSTIBLE GAS DETECTOR. DIVISION 22 CONTRACTOR SHALL COORDINATE WITH DIV 26 AND TEMPERATURE CONTROLS CONTRACTOR TO PROVIDE TRANSFORMER, ROUTE LOW VOLTAGE POWER, AND ROUTE CONTROL WIRE TO NETWORKED CONTROLLER IN MECH 419.

   DETECTOR SHALL ALARM REMOTELY VIA BMS. SEE HVAC CONTROL SHEETS, SHEET SERIES M-6XX.
4. LOW PRESSURE PROPANE GAS PIPE (555 MBH DEMAND) TO KITCHEN EQUIPMENT, WITH AUTOMATIC SHUT-OFF VALVE PROVIDED BY FOOD SERVICE CONTRACTOR, INSTALLED BY DIV 22. SEE SHEET QF-FS1.13, SHEET NOTE R. DIV 22 SHALL COORDINATE WITH FOOD SERVICE CONTRACTOR FOR FINAL LOCATION AND CONNECTION TO FOOD SERVICE EQUIPMENT.
5. 3/4" CONDENSATE DRAIN FROM ROOFTOP UNIT ABOVE, (D) IN WALL AND DRAIN TO TAILPIECE OF LAVATORY OR SINK

Draft

KEY PLAN



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EXPIRES 9/30/24
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TITLE
PLUMBING FLOOR PLAN - LEVEL 1 - AREA C

SHEET
P-201C

V1

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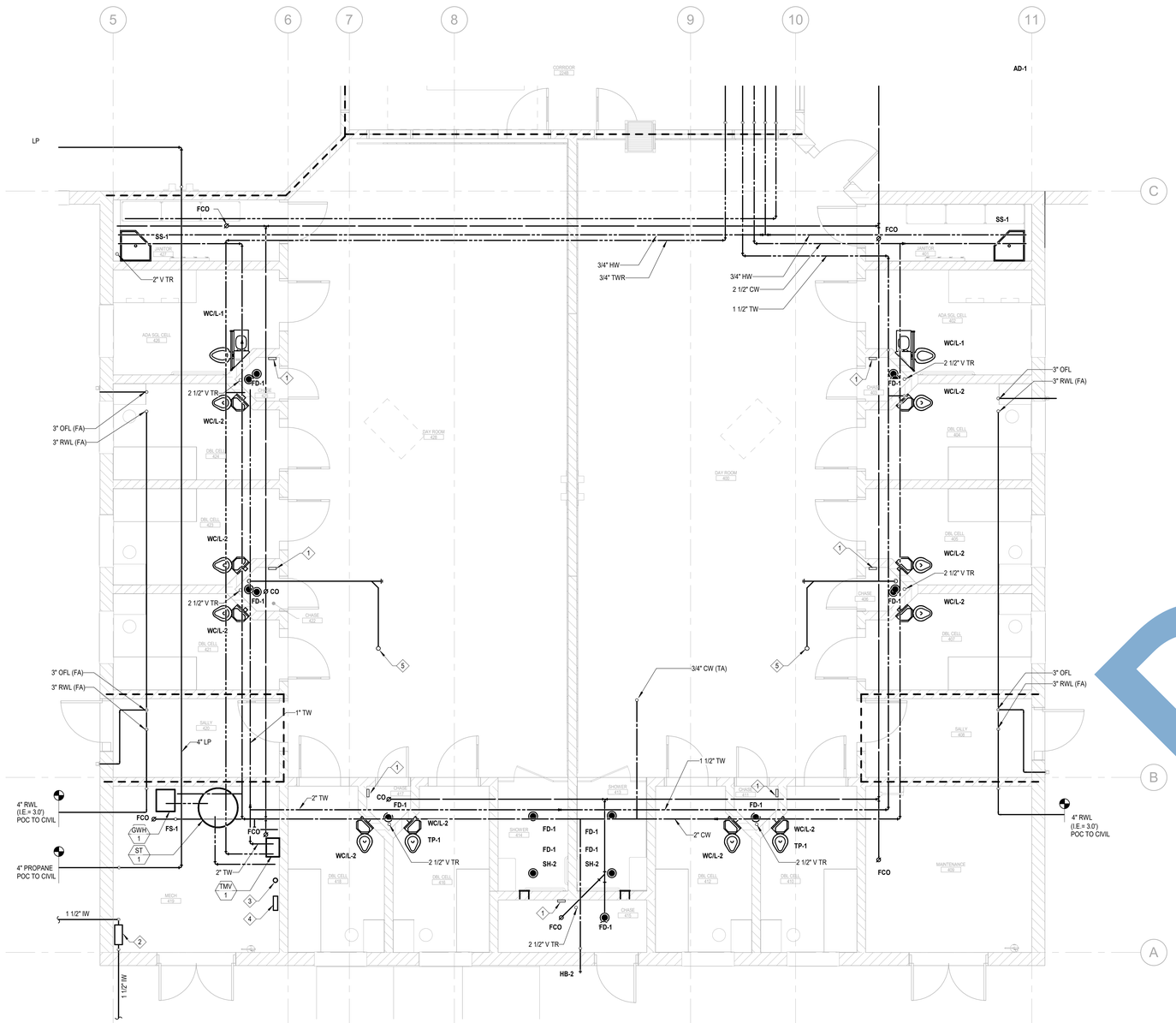


1 P-201D PLUMBING FLOOR PLAN - LEVEL 1 - AREA D

SCALE: 1/4" = 1'-0"

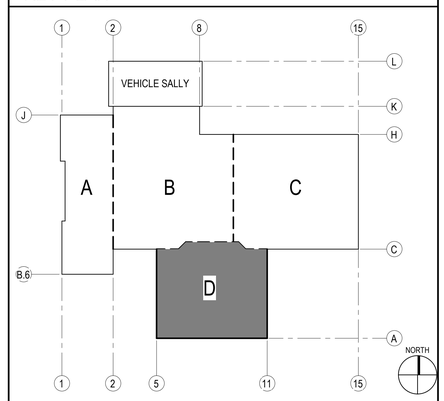
KEYNOTES:

1. PROVIDE (1) NON-NETWORKED PROGRAMMABLE "WILLOUGHBY" CVC IN PLUMBING CHASE FOR EVERY (6) CONTROLLED VALVES. DIV. 22 SHALL PROVIDE TRANSFORMER AND ALL LOW VOLTAGE WIRING TO NEAREST TRANSFORMER. OBSERVE MANUFACTURER'S LINE LENGTH LIMITATIONS FOR ALL LOW VOLTAGE WIRING AND PROVIDE ADDITIONAL TRANSFORMERS AS NEEDED. SEE ELECTRICAL PLANS FOR 120V CIRCUIT LOCATIONS.
2. PROVIDE 1" FEBCO LF825Y REDUCED PRESSURE ASSEMBLY. REFERENCE SHEET L-301 FOR FULL IRRIGATION PLAN.
3. PROVIDE "TOXALERT" TOX-COMB/ANA COMBUSTIBLE GAS DETECTOR. DIVISION 22 CONTRACTOR SHALL COORDINATE WITH DIV 26 AND TEMPERATURE CONTROLS CONTRACTOR TO PROVIDE TRANSFORMER, ROUTE LOW VOLTAGE POWER, AND ROUTE CONTROL WIRE TO NETWORKED CONTROLLER IN MECH 419.

   DETECTOR SHALL ALARM REMOTELY VIA BMS. SEE HVAC CONTROL SHEETS, SHEET SERIES M-6XX.
4. PROVIDE "TOXALERT" TOXCONTROL MODULE FOR CONNECTION AND MONITORING OF ALL REMOTE SENSORS (SEE P-2XX SHEET SERIES). DIVISION 22 SHALL COORDINATE WITH TEMPERATURE CONTROL CONTRACTOR FOR INTEGRATION WITH BMS AND REMOTE ALARMS.
5. 3/4" CONDENSATE DRAIN FROM ROOFTOP UNIT ABOVE, (D) IN WALL AND DRAIN TO TAILPIECE OF LAVATORY OR SINK

Draft

KEY PLAN



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PLUMBING FLOOR PLAN - LEVEL 1 - AREA D

SHEET
P-201D

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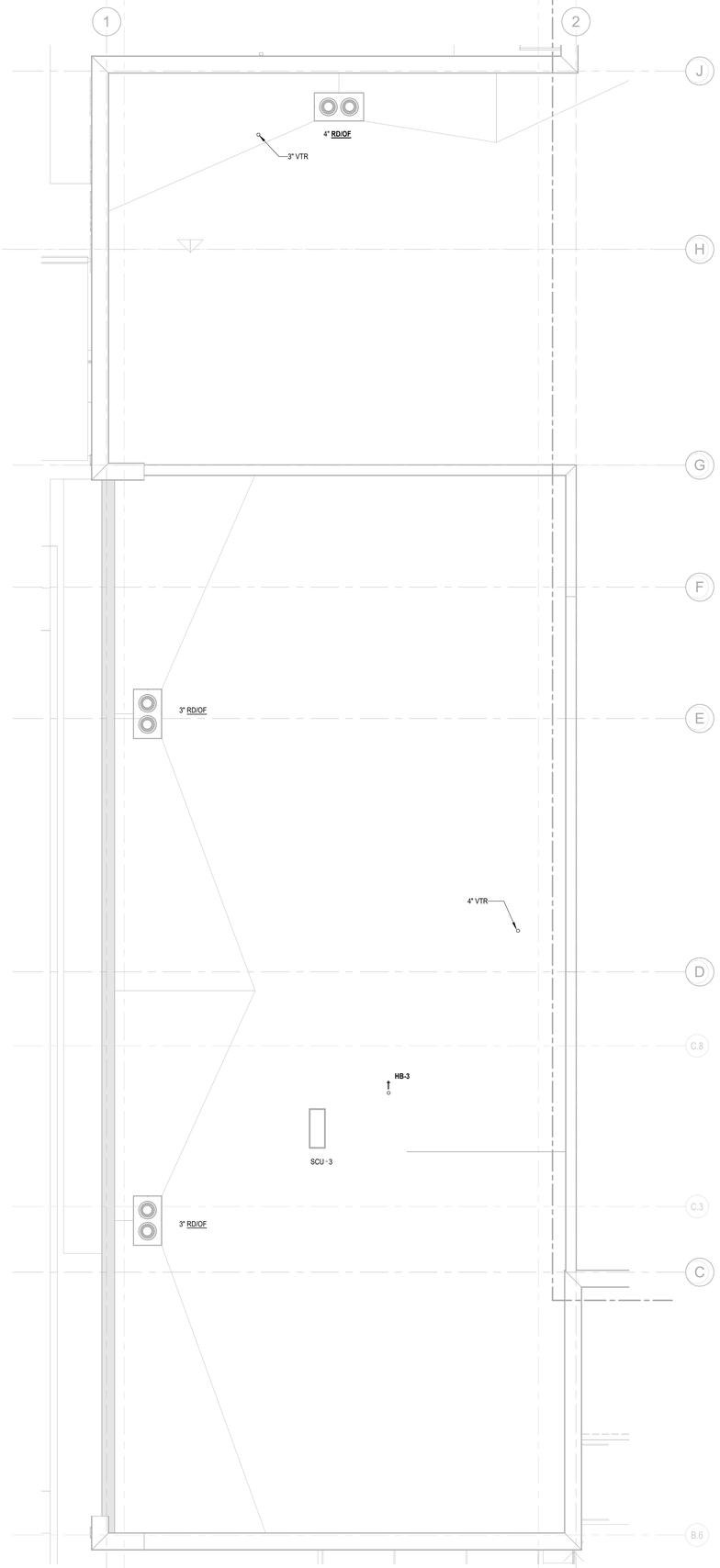
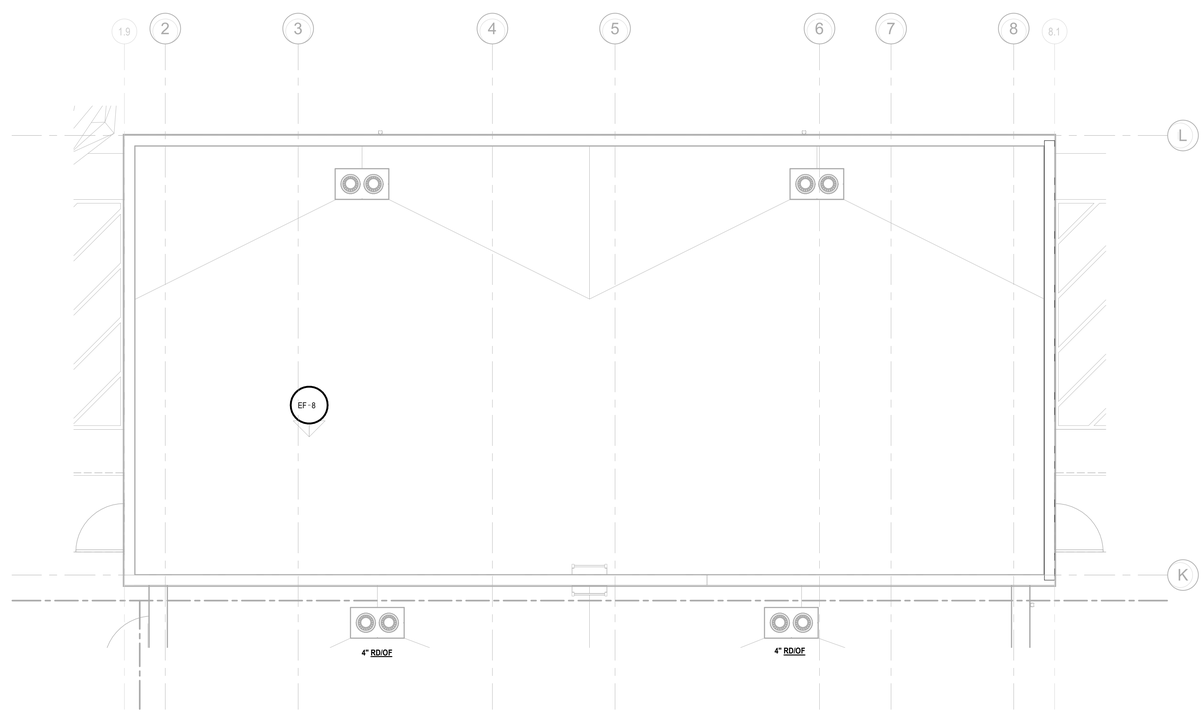


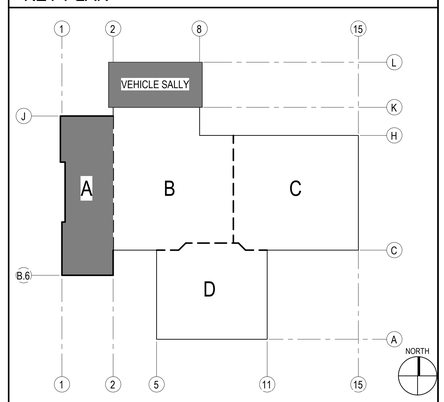
1 P-202A PLUMBING ROOF PLAN - AREA A
SCALE: 1/4" = 1'-0"



2 P-202A PLUMBING ROOF PLAN - VEHICLE SALLY
SCALE: 1/4" = 1'-0"

Draft

KEY PLAN



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PLUMBING ROOF PLAN - AREA A

SHEET
P-202A
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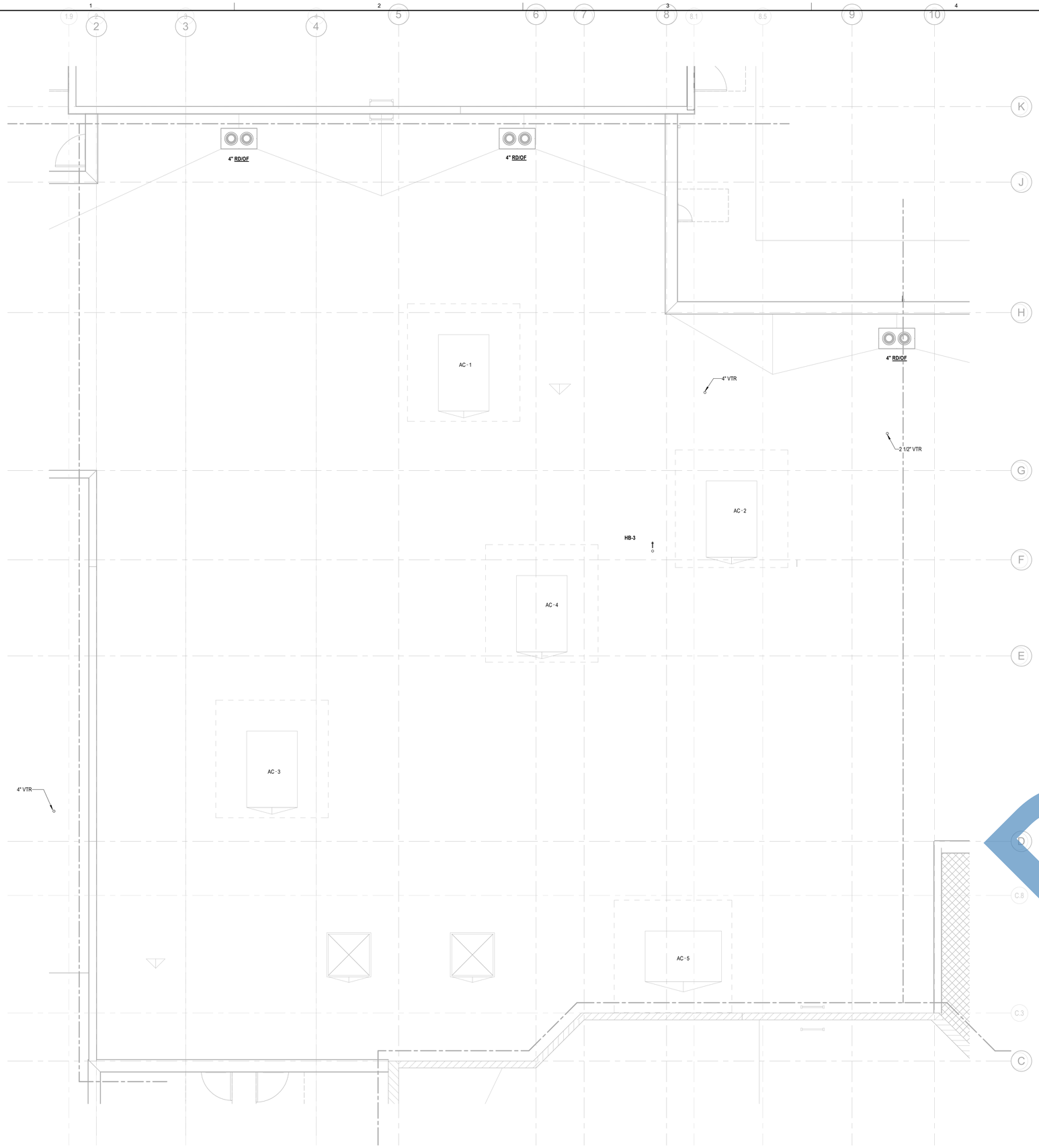

1 P-202B PLUMBING ROOF PLAN - AREA B

SCALE: 1/4" = 1'-0"

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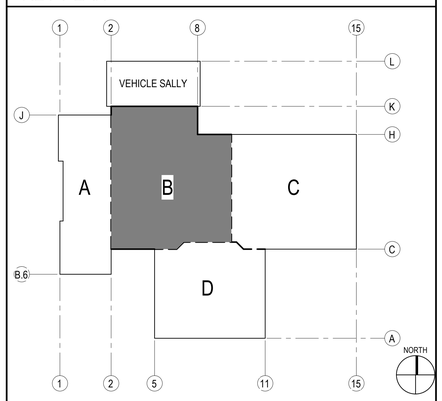
KEY PLAN



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AGENCY

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Rancho Cordova, California
MH - IS/JH/HC/AL 210306.00
PM - DESIGN TEAM PROJECT NO.

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REGISTERED PROFESSIONAL ENGINEER
KEVIN M. MAN
M 33498
EXPIRES 9/30/24
MECHANICAL
STATE OF CALIFORNIA

DATE SIGNED:

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221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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TITLE
PLUMBING ROOF PLAN - AREA B

SHEET
P-202B

V1

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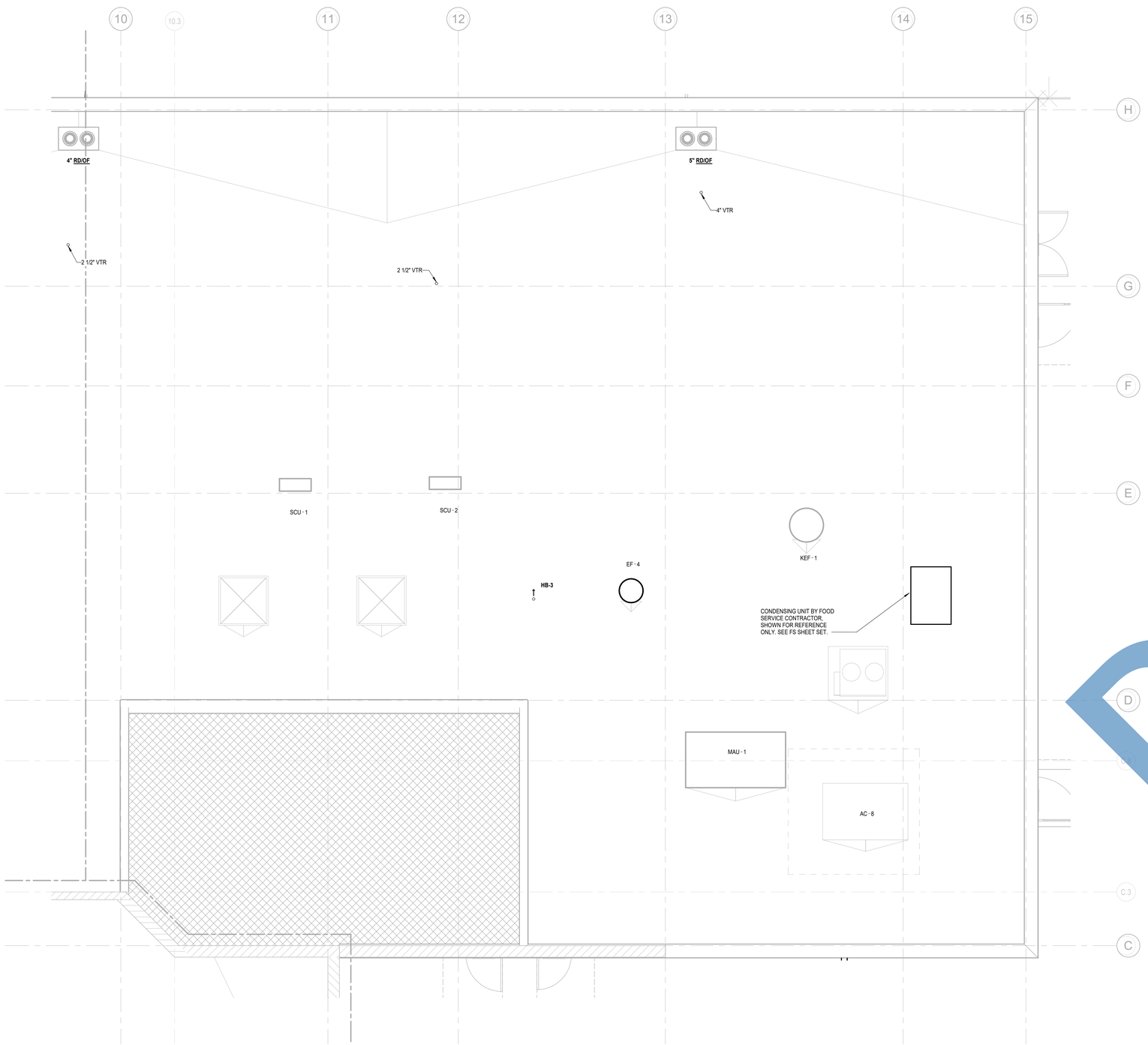
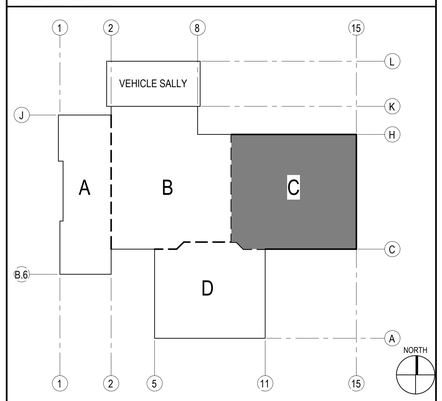


1 P-202C PLUMBING ROOF PLAN - AREA C

SCALE: 1/4" = 1'-0"

Draft

KEY PLAN



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TITLE

PLUMBING ROOF PLAN - AREA C

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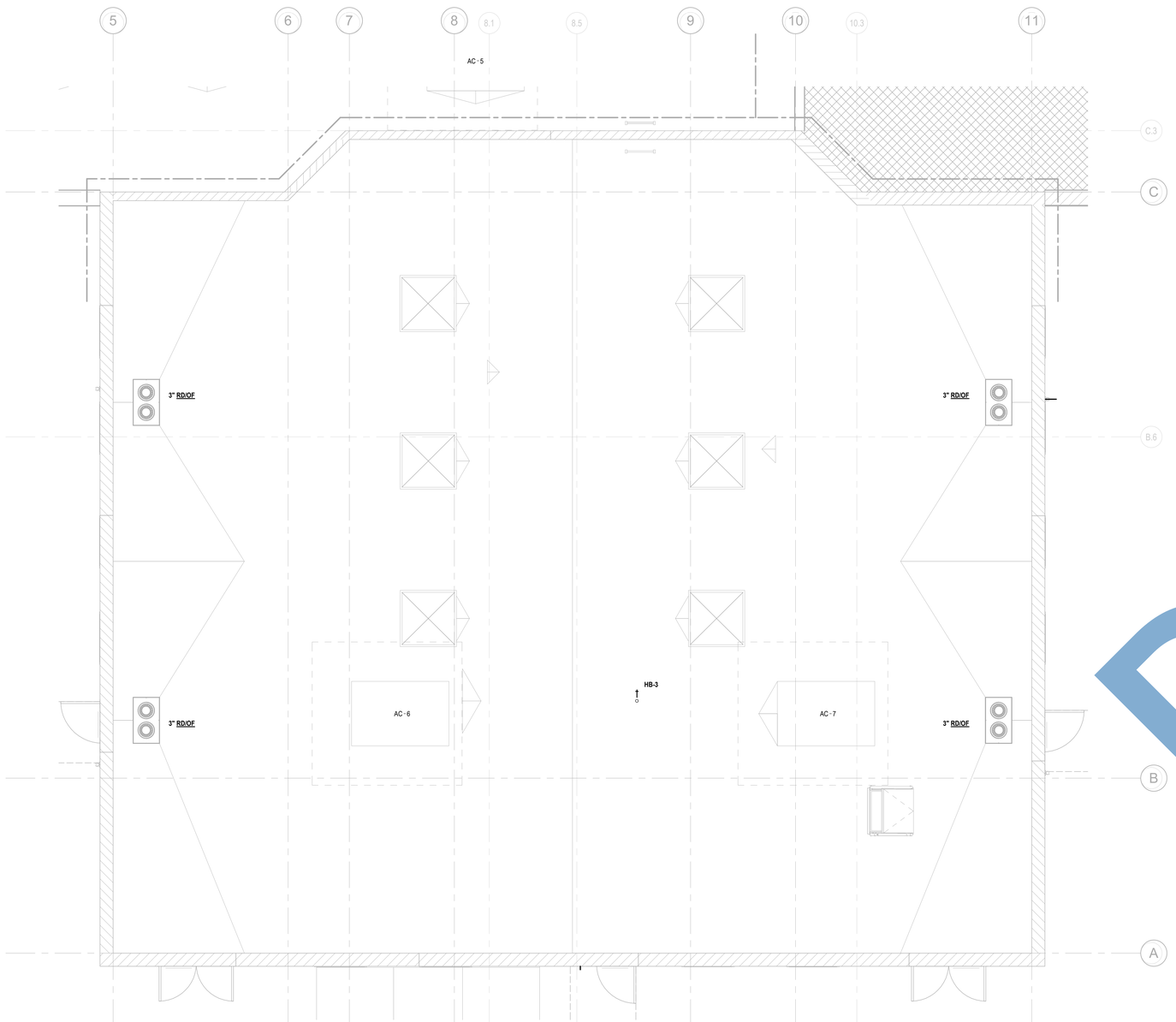
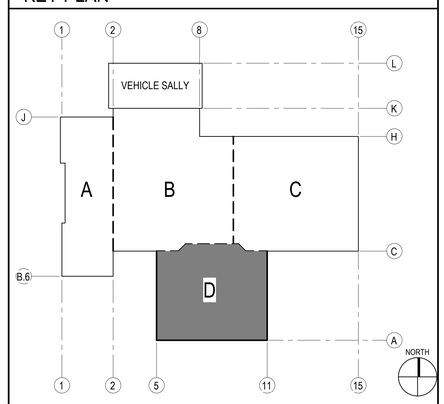


1 P-202D PLUMBING ROOF PLAN - AREA D

SCALE: 1/4" = 1'-0"

Draft

KEY PLAN



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TITLE
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SHEET
P-202D

V1

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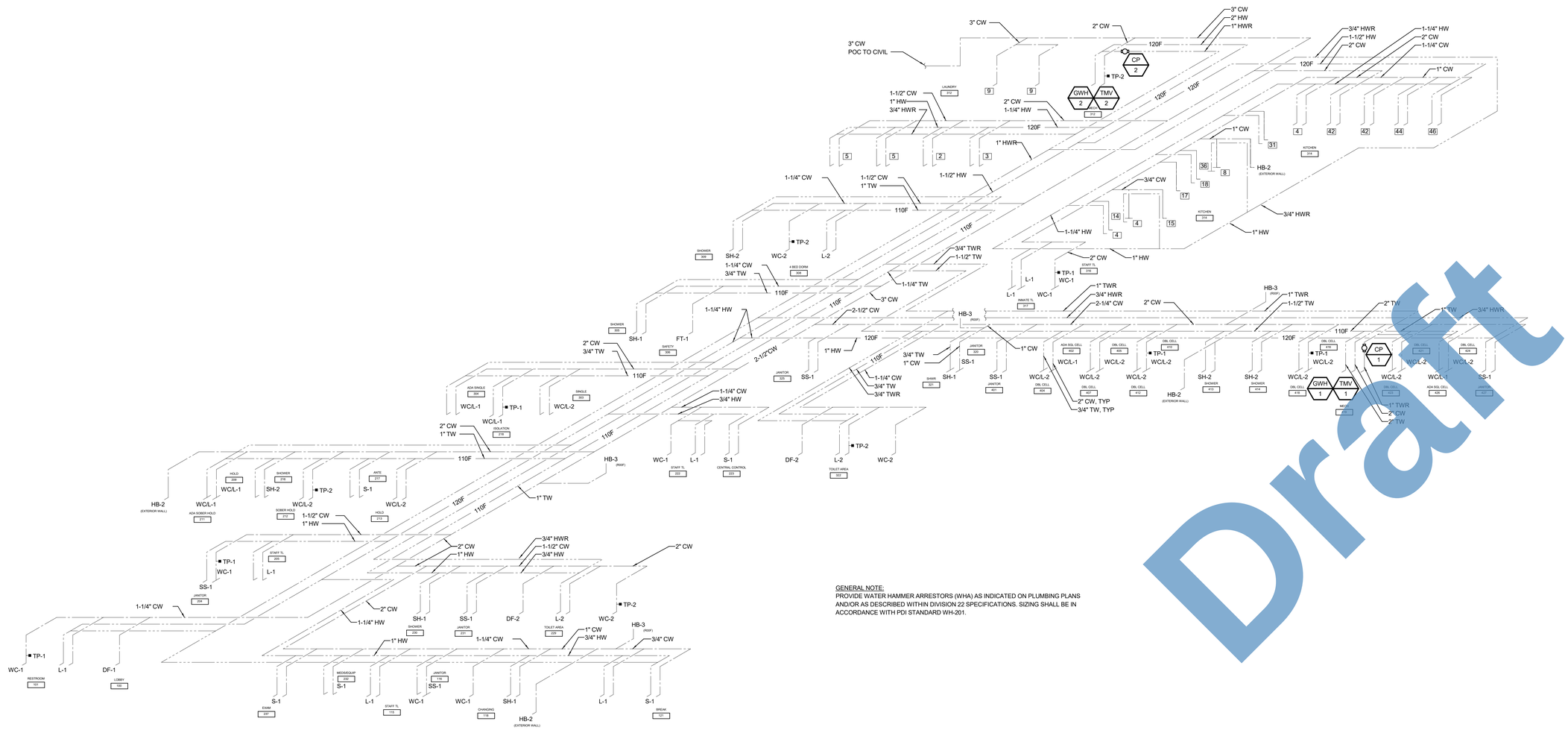

GENERAL NOTE:
PROVIDE WATER HAMMER ARRESTORS (WHA) AS INDICATED ON PLUMBING PLANS AND/OR AS DESCRIBED WITHIN DIVISION 22 SPECIFICATIONS. SIZING SHALL BE IN ACCORDANCE WITH PDI STANDARD WH-201.

1 / P-401 PLUMBING RISER DIAGRAM - DOMESTIC WATER

SCALE: NONE

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TITLE
PLUMBING RISER DIAGRAMS

SHEET
P-401
V1

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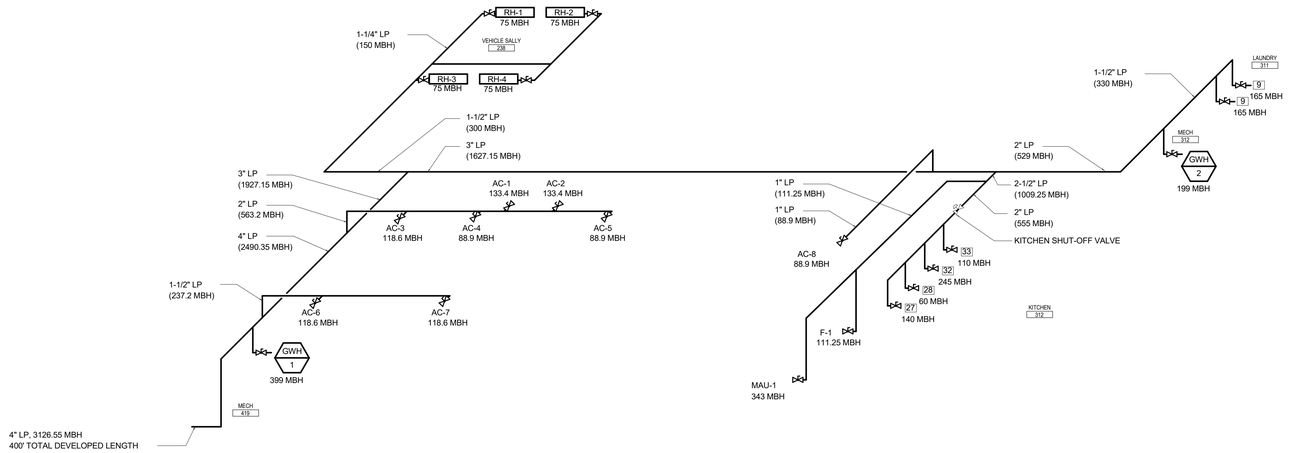
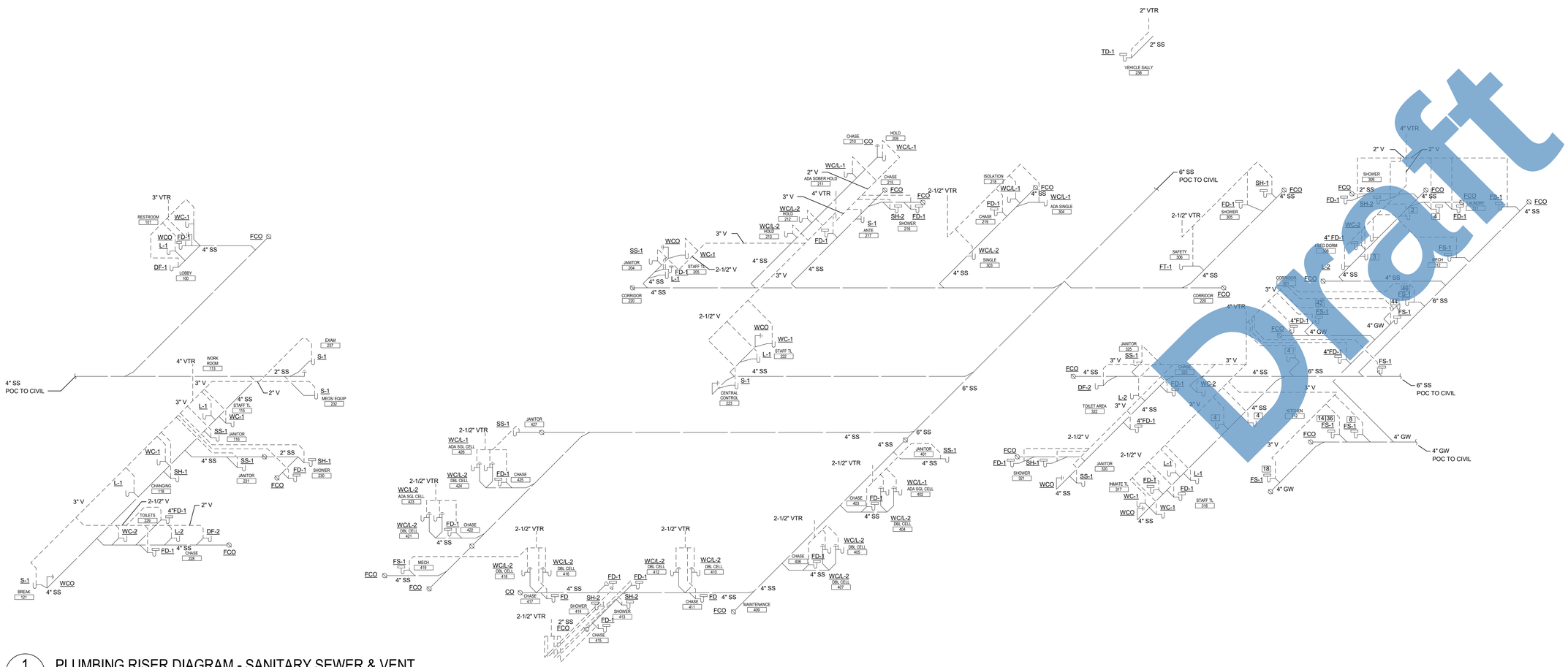


2 P-402 PLUMBING RISER DIAGRAM - PROPANE GAS

SCALE: NONE



1 P-402 PLUMBING RISER DIAGRAM - SANITARY SEWER & VENT

SCALE: NONE

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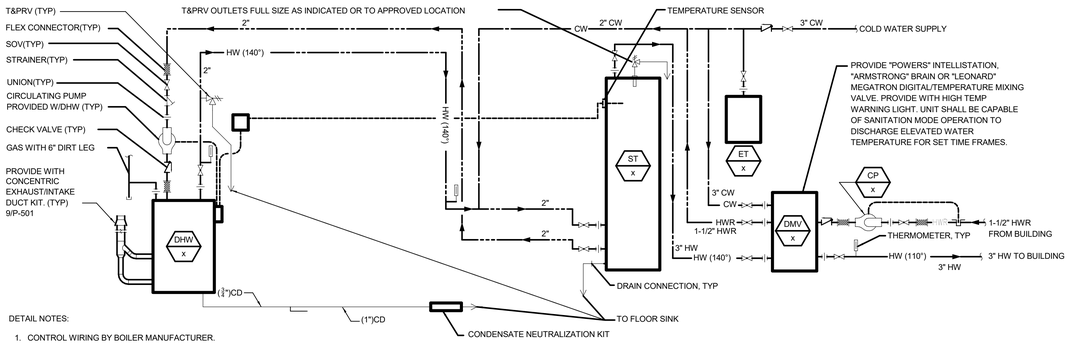


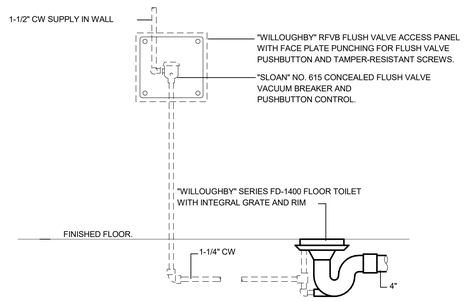
DETAIL NOTES:

1. CONTROL WIRING BY BOILER MANUFACTURER.
2. OPERATE LEAD BOILER AS NEEDED TO MAINTAIN TANK TEMPERATURE.
3. CIRCULATING PUMP MAY BE INTEGRATED WITH WATER HEATER.
4. OPERATE CIRCULATING PUMP TO MAINTAIN RETURN WATER TEMPERATURE SET-POINT.

DOMESTIC WATER HEATER PIPING DIAGRAM

12 / P-501

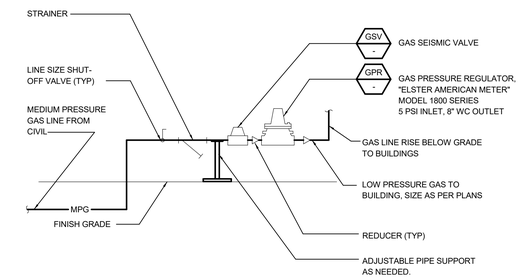
SCALE : NONE



FLUSHING FLOOR TOILET

8 / P-501

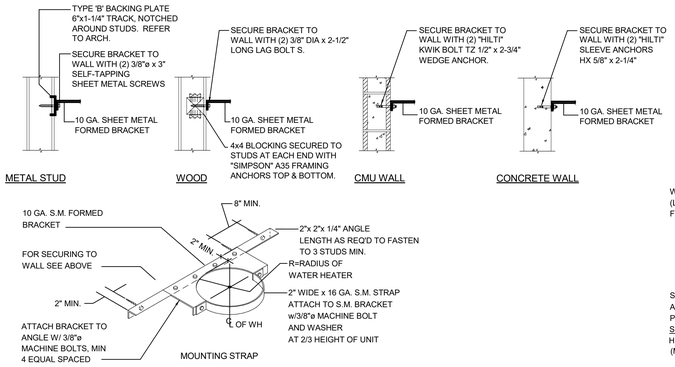
SCALE : NONE



GAS PRESSURE REDUCING DETAIL

4 / P-501

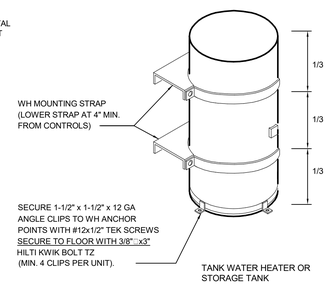
SCALE : NONE



WATER HEATER SUPPORT

11 / P-501

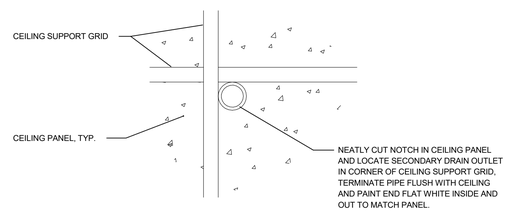
SCALE : NONE



SECONDARY DRAIN TERMINATION

7 / P-501

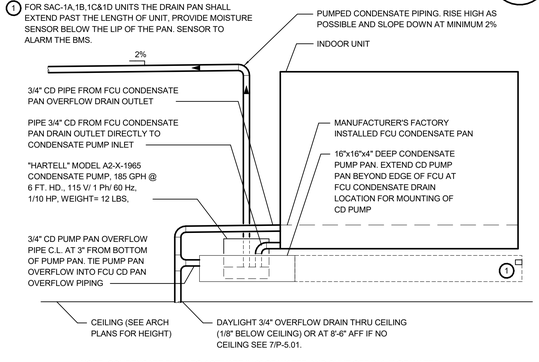
SCALE : NONE



CONDENSATE DRAIN PUMP

3 / P-501

SCALE : NONE

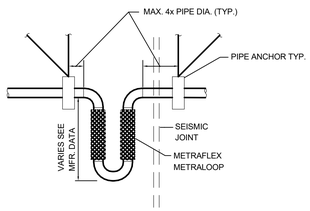


NOTE: CONDENSATE PUMP TO ACTIVATE IN 2" OF WATER AND SHUT OFF IN 0.5" OF WATER.

PIPE SEISMIC JOINT CROSSING

15 / P-501

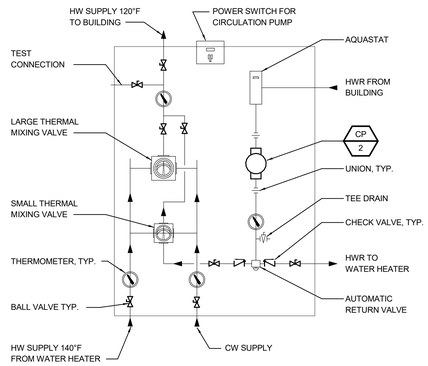
SCALE : NONE



THERMOSTATIC MIXING VALVE

10 / P-501

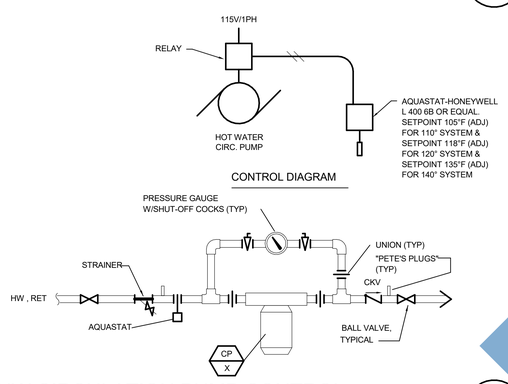
SCALE : NONE



HW CIRCULATION PUMP CONTROL

6 / P-501

SCALE : NONE



TRAP PRIMER

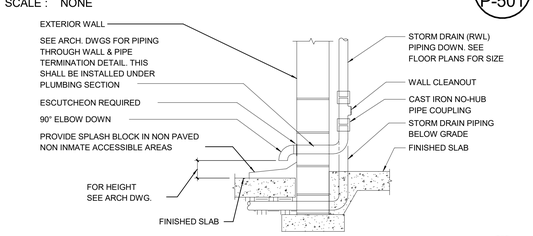
2 / P-501

SCALE : NONE

STORM DRAIN PIPING

14 / P-501

SCALE : NONE



PIPE ON ROOF SUPPORT DETAIL

13 / P-501

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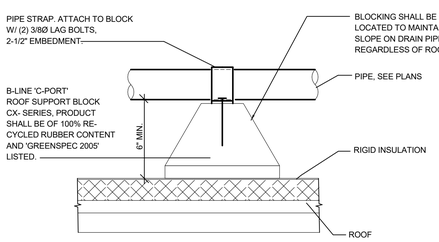
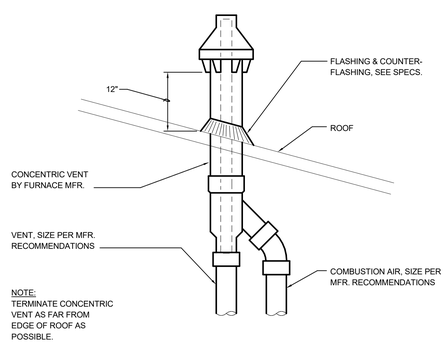


VENT & COMBUSTION AIR PIPING

9 / P-501

SCALE : NONE



NOT USED

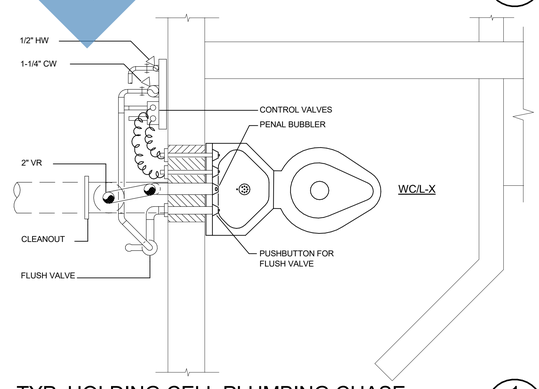
5 / P-501

SCALE : NONE

TYP. HOLDING CELL PLUMBING CHASE

1 / P-501

SCALE : NONE



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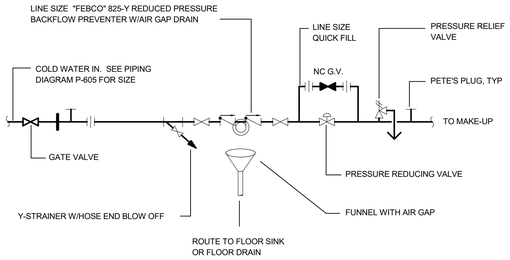

MAKE-UP SET DETAIL

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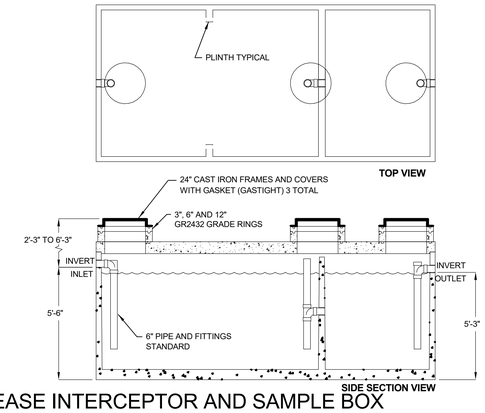
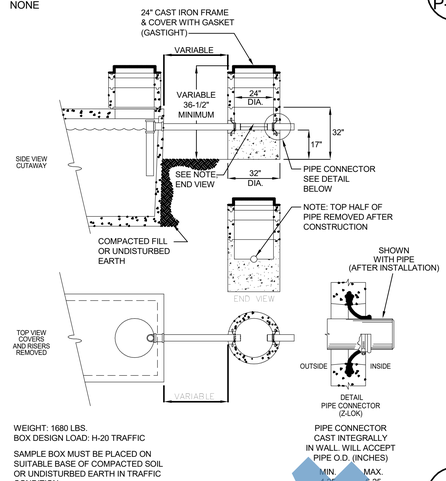
3 / P-502



GREASE INTERCEPTOR AND SAMPLE BOX

SCALE : NONE

2 / P-502



SEWAGE GRINDER ASSEMBLY

SCALE : NONE

1 / P-502

(NOT USED)

SCALE : NONE

8 / P-502

(NOT USED)

SCALE : NONE

6 / P-502

(NOT USED)

SCALE : NONE

4 / P-502

(NOT USED)

SCALE : NONE

7 / P-502

(NOT USED)

SCALE : NONE

5 / P-502

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OCCUPANCY & DAYLIGHT SENSOR NOTES

1. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS SYSTEMS OPERATION:
   - A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND AIM SENSORS IN THE CORRECT LOCATION REQUIRED FOR COMPLETE AND PROPER VOLUMETRIC COVERAGE WITHIN THE RANGE OF COVERAGE(S) OF CONTROLLED AREAS PER THE MANUFACTURER'S RECOMMENDATIONS. ROOMS SHALL HAVE NINETY (90) TO ONE HUNDRED (100) PERCENT COVERAGE TO COMPLETELY COVER THE CONTROLLED AREA TO ACCOMMODATE ALL OCCUPANCY HABITS OF SINGLE OR MULTIPLE OCCUPANTS AT ANY LOCATION WITHIN THE ROOM(S). THE LOCATIONS AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS THAT ARE TO BE PROVIDED WITH SENSORS. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY AND COMPLETELY COVER THE RESPECTIVE ROOM.
   - B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE A PRE-INSTALLATION MEETING WITH MANUFACTURER'S FACTORY AUTHORIZED REPRESENTATIVE, AT THE OWNER'S FACILITY, TO VERIFY PLACEMENT OF SENSORS AND INSTALLATION CRITERIA.
   - C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL PROPER ADJUSTMENTS TO ASSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM. IF THE CONTRACTOR INCAPACITATED TO MAKE ALL PROPER ADJUSTMENTS, THE CONTRACTOR SHALL PROVIDE THE FACTORY STARTUP IN THAT IT WILL BE THE MANUFACTURER'S RESPONSIBILITY TO VERIFY ALL PROPER ADJUSTMENTS AND TRAIN OWNER'S PERSONNEL TO ENSURE OWNER'S SATISFACTION WITH THE OCCUPANCY SYSTEM.
   - D. PROPER JUDGMENT MUST BE EXERCISED IN EXECUTING THE INSTALLATION SO AS TO ENSURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURAL COMPONENTS. THE CONTRACTOR SHALL ALSO PROVIDE, AT THE OWNER'S FACILITY, THE TRAINING NECESSARY TO FAMILIARIZE THE OWNER'S PERSONNEL WITH THE OPERATION, USE, ADJUSTMENT, AND PROBLEM SOLVING DIAGNOSIS OF THE OCCUPANCY SENSING DEVICES AND SYSTEMS.
2. OCCUPANCY SENSORS AND DAYLIGHTING SENSORS COMMISSIONING:
   - A. UPON COMPLETION OF THE INSTALLATION, CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE OCCUPANCY-BASED LIGHTING CONTROL SYSTEM.
   - B. UPON COMPLETION OF THE SYSTEM FINE TUNING, THE CONTRACTOR SHALL ARRANGE FOR THE FACTORY AUTHORIZED TECHNICIAN TO PROVIDE THE PROPER TRAINING TO THE OWNER'S PERSONNEL IN THE ADJUSTMENT AND MAINTENANCE OF THE SENSORS.

UTILITY SERVICE AND UNDERGROUND TRENCHING NOTES

1. THESE PLANS HAVE BEEN PREPARED WITHOUT UTILITY COMPANIES COMMITMENTS (PENDING). LP CONSULTING ENGINEERS, INC. ACCEPTS NO RESPONSIBILITY AND SHALL NOT INCUR ANY COSTS DUE TO CHANGES IN SERVICE REQUIREMENTS BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE SPECIFIC REQUIREMENTS WITH THE UTILITY COMPANIES AS FOLLOWS:

   A. POWER COMPANY
   SOUTHERN CALIFORNIA EDISON
   CONTACT: TIM RAFFERTY; TEL: 760-920-5025
   B. TELEPHONE COMPANY
   FRONTIER

   C. CABLE TELEVISION
   DIRECT TV

   D. FIBER
   CALIFORNIA BROADBAND COOPERATIVE
   CONTACT: CLIFF BEDDINGFIELD; TEL: 808-398-4968

3.
CONTRACTOR SHALL CALL THE UTILITY COMPANY'S REPRESENTATIVE TO ATTEND PRE-CONSTRUCTION MEETING
4.
CONTRACTOR SHALL PROTECT ANY APPLICABLE EXISTING STREET LIGHTING, UTILITY POLES, OVERHEAD LINES, UNDERGROUND WIRING, AND UTILITY PULLBOXES DURING CONSTRUCTION.
5.
CONTRACTOR IS RESPONSIBLE FOR ON-SITE AND OFF-SITE IMPROVEMENTS AND TO COORDINATE UTILITY CONNECTIONS WITH THE UTILITY COMPANIES.
6.
POWER SERVICE:

   A. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH POWER COMPANY FOR ALL ASPECTS OF THIS PROJECT INCLUDING ARRANGING FOR TEMPORARY CONSTRUCTION POWER, SCHEDULING INSPECTIONS, AND OBTAINING SIGN-OFFS, SCHEDULING RELOCATION AND REMOVAL OF UTILITY EQUIPMENT, INSTALLING UTILITY EQUIPMENT AND INTRASTRUCTURE, AND SCHEDULING FINAL CONNECTION SERVICES. CONTRACTOR SHALL BE AWARE THAT POWER COMPANY REQUIRES EXTENSIVE ADVANCE NOTIFICATION AND SHOULD SCHEDULE ALL WORK ACCORDINGLY. CONTACTOR SHALL NOT MAKE ANY CLAIMS FOR TIME DELAY DUE TO ANY POWER COMPANY WORK ASSOCIATED WITH THIS PROJECT.
   - B. CONTRACTOR SHALL CONTACT THE POWER COMPANY TO ARRANGE CONSTRUCTION TEMPORARY ELECTRICAL SERVICE. CONTRACTOR SHALL PAY ALL REQUIRED FEES AND INSTALLATION COSTS.
   - C. UTILIIFY POWER SERVICE LINES SHALL NOT BE INSTALLED IN THE SAME TRENCH AS ANY WET UTILITIES
7.
TELEPHONE SERVICES:

   A. CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY FOR ALL REQUIRED INSPECTIONS OF INFRASTRUCTURE WORK, PULLBOXES, AND TELECOM ROOM
   - B. ALL TELEPHONE COMPANY STRUCTURES MUST BE IN PLACE AND READY 30-45 DAYS PRIOR TO ANY REQUEST FOR NEW SERVICE.
8.
UNDERGROUND TRENCHING:

   A. USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED ELECTRICAL CABLES. CALL UNDERGROUND SERVICE ALERT (U.S.A.) 800-227-2600, 48 HOURS PRIOR TO DIGGING.
   - B. BEFORE START OF ANY UNDERGROUND TRENCHING FOR CONDUIT RUNS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL PLANS OF OTHER TRADES (ARCHITECTURAL, CIVIL, LANDSCAPE), AND SITE CONDITIONS TO AVOID CONFLICT.
   - C. TRENCHING AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. COORDINATE WITH CIVIL, LANDSCAPE, AND ARCHITECTURAL SITE PLAN PRIOR TO THE TRENCHING, ETC. AND THE INSTALLATION OF THE ELECTRICAL SYSTEM.
   - D. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC, UL LISTED FOR DIRECT BURIAL, AND TERMINATED WITH FACTORY END BELL FITTINGS. ALL ELBOWS, BENDS AND TURNS TRANSITIONING TO GRADE SHALL BE INSTALLED USING PER MANUFACTURED 40-MIL PVC COATED GALVANIZED STEEL ELBOWS AND OFFSETS.
   - E. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED TO COMPLY WITH CEC 230.8.
   - F. PROVIDE 24" MINIMUM COVERAGE FOR UNDERGOUND CONDUITS, UNLESS OTHERWISE NOTED. THE EXCEPTION IS FOR SCE SERVICE CONDUITS WHICH SHALL HAVE A 36" MINIMUM BURIAL DEPTH AND BE INSTALLED WITH A RED OXIDE CONCRETE CAP. MAINTAIN 12" MINIMUM SEPARATION BETWEEN THE POWER AND THE LOW VOLTAGE SYSTEM UNDERGROUND CONDUITS. TRENCHES SHALL ALL BE INSTALLED WITH A RED POLYETHILENE WARNING RIBBON LABELED 'ELECTRICAL', LOCATED 8" BELOW GRADE IN THE TRENCH.
   - G. PROVIDE UNDERGROUND TRACER WHERE NON-METAL CONDUITS ARE INSTALLED.
   - H. PROVIDE PARTEX IDENTIFICATION TAGS TO IDENTIFY UNDERGROUND CIRCUITS.
   - I. ALL UNDERGROUND SPLICES SHALL BE MADE WATERPROOF BY PROVIDING WITH "SPLICE-KOTE" SPLICE KITS OR OTHER ACCEPTED METHODS. ALL FUSEHOLDERS SHALL BE WATERTIGHT.
   - J. ALL UNDERGROUND RACEWAYS SHALL BE PROVIDED WITH A #8 AWG MINIMUM SIZE COPPER EQUIPMENT GROUNDING CONDUCTOR, WHETHER SHOWN ON PLAN OR NOT, UNLESS OTHERWISE NOTED.
   - K. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT TO REPAIR AND REPLACE ANY AND ALL DAMAGES TO EXISITNG PCC WALKS, AC PAVING, UTILITIES, TREES, TURF, PLANTED AREAS, AND OTHER FACILITIES RESULTING FROM THIS PROJECT. WHEN CUTTING OR TRENCHING THROUGH EXISTING CONCRETE SIDEWALKS, DRIVEWAYS, AND WALKWAYS, THE CONTRACTOR SHALL BE REQUIRED TO COMPLETELY REPLACE ENTIRE SECTIONS OF CONCRETE PANELS FROM SCOREMARK TO SCOREMARK AFFECTED BY THE CONSTRUCTION WORK. ALL SIDEWALKS, DRIVEWAYS, AND WALKWAYS SHALL BE REPLACED TO MATCH ADJACENT CONDITION AND AS DIRECTED BY THE ARCHITECT

GENERAL NOTES

ALL GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCERPTS FROM THE SPECIFICATION.
2. PROCURE PERMITS AND LICENSES REQUIRED. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES, ORDINANCES, AND UTILITY COMPANIES.
3. COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM.
4. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
5. INSTALL ALL EQUIPMENT, CONDUITS, OUTLETS, AND FIXTURES IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES (CEC, STATE, COUNTY, AND CITY).
6. DO NOT SCALE PLANS FOR FIXTURES, DEVICES, OR APPLIANCE LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK MECHANICAL AND ARCHITECTURAL PLANS. ALSO REFER TO ACTUAL ON-SITE CONDITIONS.
7. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
8. ALL ELECTRICAL DEVICES , EQUIPMENT, FIXTURES, CONDUITS, AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
9. OUTLET BOXES INSTALLED IN FIRE WALLS SHALL BE ONE-PIECE STEEL AND INSTALLED IN SEPARATE (STAGGERED) STUD PENETRATIONS. MINIMUM 24 INCHES HORIZONTAL SEPARATION. FIRE WALLS SHALL BE MADE IN ACCORDANCE WITH CBC AND ELECTRICAL CODES.
10. THE FINAL LOCATION OF ALL OUTLETS SHALL BE VERIFIED WITH THE ARCHITECT AND/OR OWNER AT TIME OF CONSTRUCTION.
11. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED.
12. CONTRACTOR SHALL VERIFY THAT ALL LIGHTING FIXTURES, CEILING TRIMS, AND FRAMES ARE COMPATIBLE WITH CEILING SYSTEM INSTALLED.
13. CONTRACTOR SHALL COORDINATE LIGHT FIXTURE LOCATIONS AND INSTALLATIONS WITH THE MECHANICAL CONTRACTOR. MAINTAIN REQUIRED CLEARANCES (MINIMUM 3 INCHES, PER CEC 410.116) BETWEEN THE LIGHT FIXTURES AND MECHANICAL DUCTS OR EQUIPMENT FOR PROPER OPERATION, INSTALLATION AND/OR REMOVAL OF FIXTURES.
14. BEFORE SUBMITTING FOR ARCHITECT'S REVIEW AND PLACING ORDER FOR THE LIGHT FIXTURES, THE CONTRACTOR SHALL VERIFY THE VOLTAGE OF ALL THE LIGHTING FIXTURES TO MATCH THE VOLTAGE OF THE SERVICE PANEL, WHETHER THE VOLTAGE FOR THE LIGHT FIXTURES ARE SHOWN ON THE PLAN OR NOT.
15. PLACEMENT AND CIRCUITING OF EXIT SIGNS AND EGRESS LIGHTING SHALL COMPLY WITH CBC REQUIREMENTS.
16. ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
17. PROVIDE ALL NECESSARY SLEEVES AND INSERTS FOR ALL WORK PASSING THROUGH OR ATTACHING TO WALLS, FLOORS, OR CEILINGS.
18. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, UNLESS OTHERWISE NOTED. CONDUITS INSTALLED CONCEALED IN WALL AND CEILING MAY BE EMT WITH STEEL COMPRESSION TYPE FITTINGS. PVC WHERE INSTALLED UNDERGROUND AND/OR UNDER SLAB. ALL EXPOSED CONDUIT SHALL BE RIGID STEEL CONDUITS WITH THREADED TYPE FITTINGS. INSTALL ALL CONDUITS IN ACCORDANCE WITH CEC STANDARDS OF INSTALLATION.
19. ELECTRICAL NON-METALLIC TUBING (ENT) AND MC CABLE ARE NOT PERMITTED TO BE USED FOR THIS PROJECT, NO EXCEPTIONS.
20. WHERE EXISTING CONDUITS, CONCEALED OR EXPOSED, AND (WIREMOLD) SURFACE RACEWAY IS NOT IN PLACE AS SHOWN ON PLANS, PROVIDE NEW CONDUITS AND (WIREMOLD) SURFACE RACEWAY FOR THE NEW WORK. VERIFY EXISTING CONDITION ON SITE AND PROVIDE ALL NECESSARY NEW MATERIAL, APPARATUS, AND WORK THAT IS REQUIRED TO BE INCLUDED IN THE BID PACKAGE.
21. CONDUCTORS, #8 AND LARGER, SHALL BE STRANDED COPPER WITH THNN/THWN INSULATION, UNLESS OTHERWISE NOTED.
22. PROVIDE WORKING CLEARANCE PER CEC 110.26 FOR SERVICE PANEL, SUBPANELS, MOTOR DISCONNECT SWITCHES, CONTROL SECTIONS, HVAC EQUIPMENT, APPLIANCES, ETC.
23. PROVIDE A WARNING LABEL (SIGN) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 110.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC SECTION 110.24(A).
24. BUILDING SERVICE AND SUBPANELS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATING TO BE USED IS LOWER THAN MAIN SERVICE RATING.
25. ALL APPLIANCES SHALL COMPLY WITH CEC ARTICLE 422. APPLIANCE CONTROL AND PROTECTION PER CEC 422-III; BRANCH CIRCUITS PER 422-II.
26. BUILDING EXPANSION JOINTS MAY OR MAY NOT BE INDICATED ON THE ELECTRICAL DRAWINGS. VERIFY THE LOCATIONS OF ALL APPLICABLE BUILDING EXPANSION JOINTS WITH THE ARCHITECTURAL DRAWINGS. WIRING METHODS ACROSS EXPANSIONS JOINTS SHALL INCLUDE USE OF FLEXIBLE FITTINGS OR OTHER DEVICES AS APPROPRIATE TO EACH APPLICATION. IN NO CASE SHALL CONDUIT CROSS SUCH A JOINT IN BUILDING CONSTRUCTION WITHOUT USE OF THE APPROPRIATE WIRING METHODS.
27. CONTRACTOR SHALL SIZE ALL THE INTERIOR AND EXTERIOR BUILDING PULL BOXES AND UNDERGROUND PULL BOXES PER CEC 314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACEWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
28. WHERE ACCESSIBILITY IS NOT AVAILABLE TO ELECTRICAL OUTLETS, DEVICES AND/OR EQUIPMENT, COORDINATE WITH THE ARCHITECT FOR PROVISIONS TO PROVIDE ACCESSIBILITY TO THEM.
29. CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE MECHANICAL DRAWINGS AND PROVIDING ALL CONDUITS, CONTROL WIRING AND POWER WIRING SHOWN ON THE MECHANICAL DRAWINGS THAT IS NOT SHOWN ON THE ELECTRICAL PLANS.
30. CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS AND COORDINATE FOR THE EQUIPMENT LOCATIONS. COORDINATE ROOF PENETRATION WITH THE MECHANICAL CONTRACTOR FOR MECHANICAL CONNECTIONS. ENTER ROOF MOUNTED UNITS THROUGH EQUIPMENT MOUNTING CURES WHERE POSSIBLE, VERIFY ON-SITE.
31. PROVIDE CONVENIENCE OUTLET WITHIN 25 FEET OF MECHANICAL EQUIPMENT PER U.M.C. WHERE LOCATED OUTSITE, PROVIDE WEATHER-PROOF AND GFCI CONVENIENCE OUTLET. SECURE ROOF MOUNTED OUTLET TO THE MECHANICAL EQUIPMENT. VERIYFY LOCATION IN FIELD WITH THE MECHANICAL CONTRACTOR.
32. VERIFY SINGLE-POINT CONNECTIONS TO ROOF MOUNTED HVAC UNITS WITH MECHANICAL CONTRACTOR ON-SITE PRIOR TO ELECTRICAL ROUGH-IN. PROVIDE DUAL DISCONNECTS IF TWO-POINT CONNECTION IS REQUIRED, WHETHER SHOWN ON PLANS OR NOT.
33. SWITCH DEVICES CONTROLLING MECHANICAL EQUIPMENT SHALL BE OF SIZE AND TYPE REQUIRED AND SHALL BE SERVED WITH QUANTITY OF WIRES AS REQUIRED. REFER TO DIVISION 15 MECHANICAL PLANS AND SPECIFICATIONS.
34. COORDINATE THE HVAC EQUIPMENT FOR FUSES REQUIRED. WHERE FUSES ARE REQUIRED, VERIFY FUSE SIZE ON-SITE AND PROVIDE FOR HVAC EQUIPMENT PER UNIT NAMEPLATE SPECIFICATIONS.
35. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-IX AND 440-II.
36. MOTOR STARTERS FOR HVAC EQUIPMENT ARE PROVIDED BY MECHANICAL CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR, UNLESS NOTED OTHERWISE.
37. ALL CONNECTIONS FROM THE DISCONNECT SWITCHES TO HVAC UNITS SHALL BE COPPER CONDUCTORS. MOTOR DISCONNECT SWITCHES SHALL COMPLY WITH CEC 430-VII, 430-VIII, AND 440-II.
38. CONTRACTOR VERIFY LOCATION AND HEIGHT OF ALL MECHANICAL OR FIXTURE EQUIPMENT OUTLETS WITH SUPPLIER PRIOR TO ANY ROUGH-IN WORK. PROVIDE ALL RUNS AND CONNECTIONS TO EQUIPMENT.
39. ALL TERMINATION PROVISIONS OF EQUIPMENT, INCLUDING CIRCUITS RATED 100 AMPERES OR LESS, SHALL BE RATED AT 60 DEGREE, CENTIGRADE PER CEC 110.14(c).
40. ALL LIGHT FIXTURES INSTALLED OVER FOOD HANDLING OR FOOD PREPARATION AREAS, OPEN FOOD STORAGE, AND UTENSIL WASHING AREAS SHALL BE OF SHATTERPROOF CONSTRUCTION OR SHALL BE PROTECTED WITH SHATTERPROOF SHIELDS AND SHALL BE READILY CLEANABLE.
41. TELEPHONE, DATA AND POWER OUTLET ELEVATIONS FOR VIDEO VISITATION, CANTEEN AND PHONES WILL BE PROVIDED AFTER BID OPENING. OUTLETS TO BE FIELD LOCATED TO MEET ADA AND OTHER REQUIREMENTS WITH SELECTED VENDORS EQUIPMENT.
42. ALL CONDUITS SHALL BE CONCEALED BELOW SLAB, IN WALLS AND/OR ABOVE CEILINGS EXCEPT IN ELECTRICAL ROOMS, MECHANICAL ROOMS, AND OTHER SIMILAR UTILITY ROOMS AS APPROVED BY THE ARCHITECT. NO CONDUIT SHALL BE EXPOSED ON EXTERIOR BUILDING SURFACES WITHOUT PRIOR APPROVAL FROM THE ARCHITECT.
43. PROVIDE STAINLESS STEEL COVER PLATE'S WITH SECURITY FASTENERS IN ALL AREAS WHERE INMATES MAY BE PRESENT.
44. ELECTRICAL CONTRACTOR SHALL:
   - A. COORDINATE ALL CONDUIT INSTALLATIONS WITH SECURITY ELECTRONICS SHEETS.
   - B. REFERENCE STATION LOCATIONS AND SYMBOL LEGEND FOR CHASE CONDUIT SIZES AND BACK-BOX REQUIREMENTS.
   - C. INSTALL ALL CONDUITS AND BACK-BOXES SHOWN ON SECURITY ELECTRONICS SHEETS.
   - D. PROVIDE AND INSTALL ALL REQUIRED SECURITY ELECTRONICS PATHWAY GROUNDING/BONDING, PLYWOOD BACKBOARDS AND POWER.
45. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM CONTRACTOR AND SHALL PROVIDE ALL POWER, BACK-BOXES AND CONDUITS REQUIRED FOR THE FIRE ALARM SYSTEM.

ELECTRICAL ABBREVIATIONS

ABBREV	DESCRIPTION	ABBREV	DESCRIPTION
A, AMP	AMPERES	MAX	MAXIMUM
AC	ABOVE COUNTER	MC	METAL-CLAD CABLE
AF/AT	AMPERE FRAME / AMPERE TRIP	MCA	MINIMUM CIRCUIT AMPACITY
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AHJ	AUTHORITY HAVING JURISDICTION	MGB	MAIN GROUND BAR
AIC	AMPERE INTERRUPTING CAPACITY	MG SET	MOTOR-GENERATOR SET
AL	ALUMINUM	ML/O	MAIN LUGS ONLY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MOCP	MAXIMUM OVERCURRENT PROTECTION
AS/AF	AMPERE SWITCH / AMPERE FUSE	MPOE	MINIMUM POINT OF ENTRY
AT	AMPERE TRIP RATING OF BREAKER	MS	MOTION SENSOR
AUTO	AUTOMATIC	MSB	MAIN SWITCHBOARD
ATS	AUTOMATIC TRANSFER SWITCH	MTD	MOUNTED
AWG	AMERICAN WIRE GAUGE	MTS	MANUAL TRANSFER SWITCH
BMS	BUILDING MANAGEMENT SYSTEM	MV	MEDIUM VOLTAGE CABLE
C, CDT	CONDUIT	MW	MEGAWATTS
CATV	COMMUNITY ANTENNA TELEVISION	(N)	NEW
CB	CIRCUIT BREAKER	NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
CEC	CALIFORNIA ELECTRICAL CODE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CFL	COMPACT FLUORESCENT	NIC	NOT IN CONTRACT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	NL	NIGHT LIGHT
CKT	CIRCUIT	NRTL	NATIONALLY RECOGNIZED TESTING LABORATORIES
cmil	CIRCULAR MIL	NTS	NOT TO SCALE
CO	CONDUIT ONLY w/PULL STRING	OC	ON CENTER
CSFM	CALIFORNIA STATE FIRE MARSHALL	OCPD	OVERCURRENT PROTECTIVE DEVICE
CT	CURRENT TRANSFORMER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CU	COPPER	OFOI	OWNER FURNISHED, OWNER INSTALLED
DET	DETAIL	PH, P	PHASE OR POLE
DISC	DISCONNECT	PB	PULL BOX
DIST	DISTRIBUTION	PF	POWER FACTOR
DWG	DRAWING	PFB	PROVIDE FOR FUTURE BREAKER
EC	ELECTRICAL CONTRACTOR	PIV	POST INDICATOR VALVE
EGC	EQUIPMENT GROUNDING CONDUCTOR	PLC	PROGRAMMABLE LOGIC CONTROLLERS
ELEV, EL	ELEVATION	PNL	PANEL
EM, EMERG	EMERGENCY	PoE	POWER OVER INTERNET
EMT	ELECTRICAL METALLIC TUBING	PV	PHOTOVOLTAICS
ENT	ELECTRICAL NONMETALLIC TUBING	PVC	POLYVINYL CHLORIDE
EOL	END OF LINE RESISTOR	PWR	POWER
EPO	EMERGENCY POWER OFF	(R)	RELOCATED
EQPT	EQUIPMENT	RCP	REFLECTED CEILING PLAN
EV	ELECTRIC VEHICLE	RECPT	RECEPTACLE
EVSE	ELECTRIC VEHICLE SUPPLY EQUIPMENT	REQD	REQUIRED
EXH	EXHAUST	RGSC	RIGID GALVANIZED STEEL CONDUIT
(E)	EXISTING	RMC	RIGID METAL CONDUIT
(F)	FUTURE	RMS	ROOT-MEAN-SQUARE
FACP	FIRE ALARM CONTROL PANEL	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
FF	FINISHED FLOOR	SCR	SILICON CONTROLLED RECTIFIER
FG	FINISHED GRADE	SHLD	SHIELDED
FLA	FULL LOAD AMPS	SPD	SURGE-PROTECTIVE DEVICE
FLEX	FLEXIBLE	SPECS	SPECIFICATIONS
FLUOR	FLUORESCENT	SW	SWITCH
FMC	FLEXIBLE METAL CONDUIT	T, XFMR	TRANSFORMER
FMT	FLEXIBLE METAL TUBING	TEMP	TEMPORARY
GEC	GROUNDING ELECTRODE CONDUCTOR	THHN	THERMOPLASTIC, HEAT RESISTANT CABLE, NYLON JACKET OUTER SHEATH
GFCI	GROUND-FAULT CURRENT INTERRUPTER		THERMOPLASTIC, HEAT AND MOISTURE RESISTANT
GFPE	GROUND-FAULT PROTECTION OF EQUIPMENT	THWN	CABLE, NYLON JACKET OUTER SHEATH
GND	GROUND		TAMPER-RESISTANT
HID	HIGH INTENSITY DISCHARGE	TR	TAMPER SWITCH
HP	HORSEPOWER	TS	THERMOSTAT
HVAC	HEATING, VENTILATION & AIR CONDITIONING	TSTAT	TYPICAL
Hz	HERTZ (cycle per second)	TYP	UNDERGROUND
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	UG	UNDERGROUND PULL SECTION
		UGPS	UNDERWRITERS LABORATORIES
IG	ISOLATED GROUND	UL	UNLESS NOTED OTHERWISE
IMC	INTERMEDIATE METAL CONDUIT	UNO	UNINTERRUPTIBLE POWER SUPPLY
ISC, SC	SHORT CIRCUIT	UPS	UNIVERSAL SERIAL BUS
ISOL	ISOLATED	USB	VARIABLE FREQUENCY DRIVE
JBOX	JUNCTION BOX	VFD	VOLTS
kcmil	ONE THOUSAND CIRCULAR MILS	V	VOLT-AMPERE
kV	KILOVOLTS	VA	VOLTS ALTERNATING CURRENT
kW	KILOWATTS	Vac	VOLTS DIRECT CURRENT
kVA	KILOVOLT-AMPERES	Vdc	WATTS
LED	LIGHT-EMITTING DIODE	W	WATT-HOUR
LCP	LIGHTING CONTROL PANEL	W-hr	WITH
LPG	LIQUEFIED PETROLEUM GAS	w/	WEATHERPROOF
LRC	LOCKED-ROTOR CURRENT	WP	WEATHERPROOF LOCKING
LTG	LIGHTING	WPL	WEATHERPROOF WHILE IN USE
		WPU	WEATHER RESISTANT
		WR	REMOVE OR DEMO
		(X)	

CALGREEN OUTDOOR LIGHTING REQUIREMENTS

1. OUTDOOR LIGHTING SYSTEMS FOR GROUP I-3 ARE EXEMPT FROM COMPLING WITH THE MINIMUM REQUIREMENTS IN THE CALIFORNIA ENERGY CODE (CALIFORNIA ENERGY CODE, 100.0(A) EXCEPTION 3, AND CALIFORNIA GREEN BUILDING STANDARDS 106.8 EXCEPTION 1).

ELECTRICAL & TECHNOLOGY SHEET INDEX

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E-003	ELECTRICAL & TECHNOLOGY SYMBOL LEGEND
ES101	ELECTRICAL& TECHNOLOGY SITE PLAN
ES121	SITE LIGHTING PLAN
ES161	SITE LIGHTING PHOTOMETRIC PLAN
EP111	POWER & TECHNOLOGY PLAN - LEVEL 1 - OVERALL
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EP111B	POWER & TECHNOLOGY PLAN - LEVEL 1 - ENLARGED - AREA 'B'
EP111C	POWER & TECHNOLOGY PLAN - LEVEL 1 - ENLARGED - AREA 'C'
EP111D	POWER & TECHNOLOGY PLAN - LEVEL 1 - ENLARGED - AREA 'D'
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EP131B	POWER PLAN - ROOF - AREA 'B'
EP131C	POWER PLAN - ROOF - AREA 'C'
EP131D	POWER PLAN - ROOF - AREA 'D'
EL111	LIGHTING PLAN - LEVEL 1 - OVERALL
EL111A	LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'A'
EL111B	LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'B'
EL111C	LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'C'
EL111D	LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'D'
EL161	EMERGENCY LIGHTING PHOTOMETRICS PLAN - LEVEL 1 - OVERALL
EL161A	EMERGENCY LIGHTING PHOTOMETRICS PLAN - LEVEL 1 - ENLARGED - AREA 'A'
EL161B	EMERGENCY LIGHTING PHOTOMETRICS PLAN - LEVEL 1 - ENLARGED - AREA 'B'
EL161C	EMERGENCY LIGHTING PHOTOMETRICS PLAN - LEVEL 1 - ENLARGED - AREA 'C'
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E-512	ELECTRICAL DETAILS
E-513	ELECTRICAL DETAILS
E-514	ELECTRICAL DETAILS
E-515	ELECTRICAL GENERATOR DETAILS
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E-611	LIGHTING CONTROL DIAGRAMS
E-612	LIGHTING CONTROL CABINET DIAGRAM
E-711	ELECTRICAL ONE LINE DIAGRAM
E-721	TECHNOLOGY ONE LINE DIAGRAM
E-761	LIGHTING FIXTURE SCHEDULES
E-771	PANEL SCHEDULES
E-772	PANEL SCHEDULES
E-773	PANEL SCHEDULES
E-811	TITLE 24 ELECTRICAL COMPLIANCE FORMS

Draft

LIONAKIS
2025 Nineteenth Street

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

A. **TECHNOLOGY GENERAL NOTES:**

1. ALL STRUCTURED CABLING SYSTEM (SCS) & LOW VOLTAGE (LV) CABLING USED THROUGHOUT THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS AS OUTLINED IN THE STANDARDS, CODES AND LOCAL REGULATIONS FOR THE FOLLOWING: ANSI/TIA-568-C, ANSI/TIA-569-D, ANSI/TIA-606-B, ANSI/TIA-607-B, BICSI TDMM (CURRENT VERSION), CEC ARTICLE 90, ARTICLE 300, CEC ARTICLE 645, CEC ARTICLE 646, CEC ARTICLE 725, CEC ARTICLE 760, CEC ARTICLE 770, CEC ARTICLE 800, CEC ARTICLE 830. THE SCS & TECHNOLOGY SYSTEM(S) MUST MEET ALL LOCAL AND OTHER PREVAILING CODES.
2. ALL SCS & LV CABLING SHALL BEAR UL LISTED TYPE CMP (PLENUM RATED) AND/OR CM/G (GENERAL PURPOSE) AND/OR CMR (RISER RATED). ALL FIBER OPTIC CABLING SHALL BEAR OFNP (PLENUM RATED) AND/OR OFNR (RISER RATED) AND/OR OFNG (GENERAL PURPOSE). THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATELY RATED CABLE FOR THE ENVIRONMENT IN WHICH IT IS INSTALLED.
3. ALL INSTALLATION SHALL BE DONE IN CONFORMANCE WITH ANSI/TIA-568-C STANDARDS AND MANUFACTURERS INSTALLATION GUIDELINES. THE CONTRACTOR SHALL ENSURE THAT THE CABLE'S MINIMUM BEND RADIUS AND MAXIMUM PULLING TENSIONS OF THE SPECIFIED DISTRIBUTION CABLES ARE NOT EXCEEDED. THE CABLE BENDS MUST MAINTAIN THE PROPER RADIUS DURING THE PLACEMENT OF THE FACILITIES. FAILURE TO FOLLOW THE APPROPRIATE GUIDELINES WILL REQUIRE THE CONTRACTOR TO PROVIDE, IN A TIMELY FASHION, ANY ADDITIONAL MATERIAL AND LABOR NECESSARY TO PROPERLY RECTIFY THE SITUATION TO THE SATISFACTION AND WRITTEN APPROVAL OF THE OWNERS REPRESENTATIVE. THIS SHALL ALSO APPLY TO ANY AND ALL DAMAGES SUSTAINED TO THE CABLES BY THE CONTRACTOR DURING THE IMPLEMENTATION.
4. ALL SCS AND/OR LV INSTALLATIONS SHALL BE PERFORMED BY QUALIFIED TECHNICIANS FOR THAT SYSTEM. THE LABOR EMPLOYED BY THE CONTRACTOR SHALL BE REGULARLY EMPLOYED IN THE INSTALLATION AND REPAIR OF SCS AND/OR LV SYSTEMS AND SHALL BE ACCEPTABLE TO THE OWNERS REPRESENTATIVE TO ENGAGE IN THE INSTALLATION AND SERVICE OF THIS SYSTEM.
5. THE MDF AND IDF SPACES ARE DESCRIBED BELOW, AND ENCOMPASS THE AREAS THE COMMUNICATIONS CABLING EXISTS IN. THESE AREAS INCLUDE (BUT NOT LIMITED TO) THE BACKBOARDS, CABINETS, RACKS, FRAMES, LADDER RACKS, TERMINATION FIELDS, AND PATCH CORDS. (WALL AND RACK TYPES FOR COPPER AND FIBER). THE SCS CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE STANDARDS, CODES AND LOCAL REGULATIONS FOR THESE SPACES. (E.G. ANSI/TIA-568-C, ANSI/TIA-569-D, ANSI/TIA-606-B, ANSI/TIA-607-B , BICSI TDMM (CURRENT VERSION), CEC ARTICLE 90, ARTICLE 300, CEC ARTICLE 645, CEC ARTICLE 646, CEC ARTICLE 725, CEC ARTICLE 770, CEC ARTICLE 800, CEC ARTICLE 830.
6. THE WIRING OF THE SYSTEM SHALL BE EXECUTED IN ACCORDANCE WITH THE DRAWINGS AND THE EQUIPMENT MANUFACTURER'S WIRING DIAGRAMS. SHOULD ANY VARIATIONS IN THESE REQUIREMENTS OCCUR, THE CONTRACTOR SHALL NOTIFY THE OWNERS REPRESENTATIVE BEFORE MAKING ANY CHANGES. IT SHALL BE THE RESPONSIBILITY OF THE MANUFACTURER - AUTHORIZED INSTALLER OF THE APPROVED EQUIPMENT TO INSTALL THE EQUIPMENT AND GUARANTEE THE SYSTEM TO OPERATE AS PER PLANS AND SPECIFICATIONS.
7. ALL MATERIALS SHALL BE NEW. NO USED OR RE-MANUFACTURED PARTS OR COMPONENTS SHALL BE ACCEPTED.
8. CABLE STORAGE:
   THE CONTRACTOR SHALL NOT ROLL OR STORE CABLE REELS WITHOUT AN APPROPRIATE UNDERLAY AND THE PRIOR WRITTEN APPROVAL OF OWNERS REPRESENTATIVE.
9. SPECIAL EQUIPMENT AND TOOLS:
   IN ORDER TO ENSURE THE LEAST AMOUNT OF CABLE UNTWISTING, IT IS REQUIRED THAT ALL CABLES SHALL BE STRIPPED USING A CABLE MANUFACTURER'S RECOGNIZED SPECIAL TOOL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH ANY SPECIAL INSTALLATION EQUIPMENT OR TOOLS NECESSARY TO PROPERLY COMPLETE THE SYSTEM. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, TOOLS FOR TERMINATING CABLES, TESTING AND SPLICING EQUIPMENT FOR COPPER/FIBER CABLES, COMMUNICATION DEVICES, JACK STANDS FOR CABLE REELS, OR CABLE WINCHES.
10. UNDER NO CIRCUMSTANCE ARE "CHANNEL LOCKS" OR OTHER PLIERS NOT DESIGNED BY THE SCS MANUFACTURE TO BE USED TO TERMINATE WAO JACKS.

B. **TECHNOLOGY PATHWAY NOTES:**

1. PATHWAYS CAN BE DIVIDED UP INTO TWO SEPARATE CATEGORIES, OUTSIDE PLANT (OSP) AND INSIDE PLANT (ISP). IT IS THE SCS AND/OR LV SYSTEM(S) CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL EXISTING PATHWAYS (CONDUIT, CABLE TRAY, ETC) THAT WILL BE UTILIZED ON THE PROJECT, AND COORDINATE WITH THE ON-SITE ELECTRICAL OR GENERAL CONTRACTOR TO PROVE ALL PATHS SUBJECT TO BE USED ON THIS PROJECT, BEFORE INSTALLATION. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION ALL UNDERGROUND (OSP) PATHWAYS, NON-ACCESSIBLE AND OPEN CEILING SPACE PATHWAYS AS DESCRIBED IN SECTION F, CONTRACTOR GUIDELINES OF THESE TECHNOLOGY GENERAL NOTES.
2. ALL PULL-BOXES SHALL BE SIZED AND INSTALLED PER ANSI/TIA-569-D. PULL-BOXES FOR IN/UNDER SLAB CONDUIT RUNS ARE NOT PERMITTED UNLESS OTHERWISE NOTED. PULL-BOXES FOR OVERHEAD CONDUIT RUNS SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS WITHIN THE ACCESSIBLE CEILING SPACE AND SUPPORTED INDEPENDENTLY FROM THE STRUCTURE AND CONDUIT SUPPORTS. PULL-BOXES FOR ROOF MOUNTED OR EXTERIOR ABOVE GRADE APPLICATIONS SHALL BE NEMA 3R RATED. PULL-BOXES SHALL BE SIZED ACCORDING TO THE FOLLOWING:

FOR FILL RATIO BASED CONDUIT SIZING REFER TO THE FILL RATIO TABLE 1A - 2B BELOW AND REFERENCE TO ANSI/TIA-569-D.

PULLBOX SIZING PER ANSI/TIA 569-D

Conduit Size	WIDTH	LENGTH	DEPTH	WIDTH INCREASE PER ADDITIONAL...
1"	4"	15"...	3"	2"
2"	8"	36"	4"	5"
3"	61	48"	5"	6"
4"	101	60"	8"	8"

FILL RATIO TABLE 1A - Conduit

Conduit Size	.13	.18	.19	.20	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30	.31	.32	.33	.34	.35	.37	.39
3/4"	16	8	7	6	6	5	5	4	4	4	3	3	3	3	2	2	2	2	2	1	1
1"	26	13	12	11	9	9	8	7	7	6	6	5	5	4	4	4	4	3	3	3	2
1 1/4"	45	23	21	19	17	15	14	13	12	11	10	9	9	8	7	7	6	6	6	5	5
1 1/2"	61	32	28	25	23	21	19	18	16	15	14	13	12	11	10	10	9	8	8	7	6
2"	101	52	47	42	38	35	32	29	27	25	23	21	20	18	17	16	15	14	13	12	11
2 1/2"	176	92	82	74	67	61	56	51	47	44	40	38	35	33	31	29	27	25	24	21	19
3"	266	139	124	112	102	93	85	78	72	66	61	57	53	50	46	43	41	38	36	32	29
3 1/2"	347	181	162	146	133	121	111	102	94	86	80	74	69	65	61	57	53	50	47	42	38
4"	444	231	208	187	170	155	142	130	120	111	103	95	89	83	78	73	68	64	61	54	49

FILL RATIO TABLE 1B - Conduit

Conduit Size	.41	.45	.49	.51	.55	.59	.61	.65	.69	.71	.75	.79	.85	.98	1.00	1.32	1.58	1.79	2.18	2.63	3.00 (47%)
3/4"	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1"	2	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/4"	4	3	3	2	2	2	2	1	1	1	1	1	1	-	-	-	-	-	-	-	-
1 1/2"	6	5	4	3	3	2	2	2	2	2	1	1	1	1	1	-	-	-	-	-	-
2"	10	8	7	6	5	4	4	4	3	3	3	2	2	1	1	-	-	-	-	-	-
2 1/2"	17	14	12	11	9	8	8	7	6	5	5	4	4	3	2	1	1	-	-	-	-
3"	26	22	18	17	14	12	12	10	9	8	8	7	6	4	4	2	1	-	-	-	-
3 1/2"	34	29	24	22	19	16	15	13	12	11	10	9	8	6	5	3	2	1	1	-	-
4"	44	37	31	28	24	21	20	17	15	14	13	12	10	7	7	4	3	2	1	1	1

FILL RATIO TABLE 2A - Cable Tray / Wire Basket / Raceway per NEC 2017 Article 725

Tray Size (WxD)	.13	.18	.19	.20	.21	.22	.23	.24	.25	.26	.27	.28	.29	.30	.31	.32	.33	.34	.35	.37	.39
4x4	482	251	225	203	184	168	154	141	130	120	111	103	96	90	84	79	74	70	66	59	53
6x4	723	377	338	305	277	252	231	212	195	180	167	155	145	135	127	119	112	105	99	89	80
12x4	1447	754	677	661	554	505	462	424	391	361	335	311	290	271	254	238	224	211	199	178	160
18x4	2170	1132	1016	917	831	758	693	636	587	542	503	467	436	407	381	358	336	317	299	267	241
24x4	2894	1509	1355	1222	1109	1010	924	849	782	732	671	623	581	543	509	477	449	423	399	357	321
6x6	1085	566	508	458	415	379	346	318	293	271	251	233	218	203	190	179	168	158	149	133	120
12x6	2170	1132	1016	917	831	758	693	636	587	542	503	467	436	407	381	358	336	317	299	267	241
18x6	3256	1698	1524	1375	1247	1137	1040	955	880	814	754	701	654	611	572	537	505	476	449	401	361
24x6	4341	2264	2032	1834	1663	1516	1387	1273	1174	1085	1006	935	872	815	763	716	673	634	598	535	482

FILL RATIO TABLE 2B - Cable Tray / Wire Basket / Raceway

Tray Size (WxD)	.41	.45	.49	.51	.55	.59	.61	.65	.69	.71	.75	.79	.85	.98	1.00	1.32	1.58	1.79	2.18	2.63	3.00 (47%)
4x4	48	40	33	31	26	23	21	19	17	16	14	13	11	8	8	4	3	2	-	-	-
6x4	72	60	50	47	40	35	32	28	25	24	21	19	16	12	12	7	4	3	2	-	-
12x4	145	120	101	94	80	70	65	57	51	48	43	39	33	25	24	14	9	7	5	3	2
18x4	218	181	152	141	121	105	98	86	77	72	65	58	50	38	36	21	14	11	7	5	4
24x4	291	241	203	188	161	140	131	115	102	97	86	78	67	50	48	28	19	15	10	7	5
6x6	109	90	76	70	60	52	49	43	38	36	32	29	25	19	18	10	7	5	-	-	-
12x6	218	181	152	141	130	105	106	86	77	72	65	58	50	38	36	21	14	11	7	5	4
18x6	327	271	229	211	181	158	147	130	115	109	97	88	76	57	55	31	22	17	11	7	6
24x6	436	362	305	282	242	210	197	173	154	145	130	117	101	76	73	42	29	22	15	10	8

PATHWAY SEPARATION FROM SOURCE OF ELECTROMAGNETIC ENEGRY:

CONDITION	<2KVA	2-5 KVA	>5KVA
Unshielded Power Lines in Proximity to open PVC Pathways	5" (In.)	12" (In.)	24" (In.)
Unshielded Power Lines in Proximity to Grounded Metallic Pathways	2.5" (In.)	6" (In.)	12" (In.)
Power Lines enclosed in Metal Grounded Pathways in proximity to Grounded Metallic...	<1" (In.)	3" (In.)	6" (In.)

B. **TECHNOLOGY PATHWAY NOTES: (CONT.)**

3. FOR ALL FIRESTOPPING OF SCS AND LV SYSTEMS PATHWAY RESPONSIBILITIES REFERENCE SECTION G, PENETRATION OF WALLS, FLOOR AND CEILINGS OF THESE TECHNOLOGY GENERAL NOTES.
4. FOR ALL OTHER SCS AND/OR LV SYSTEMS PATHWAY RESPONSIBILITIES REFERENCE SECTION F, CONTRACTOR GUIDELINES OF THESE TECHNOLOGY GENERAL NOTES.
5. OUTSIDE PLANT (OSP) PATHWAYS CAN BE BROKEN DOWN INTO THE FOLLOWING ITEMS, MAINTENANCE HOLES, HAND HOLES, PULLBOXES, AND CONDUITS.
   a. WHILE ENTERING MAINTENANCE HOLES, HAND HOLES, PULLBOXES, FOLLOW ALL CODES AND SAFETY PRACTICES OF A "CONFINED SPACE". UTILIZE THE NECESSARY EQUIPMENT TO MAINTAIN ALL SAFE PULLING TENSIONS FOR THE CABLES TO BE INSTALLED. THIS INFORMATION CAN BE FOUND ON THE CABLE MANUFACTURER'S SPECIFICATIONS SHEETS.
   b. BEFORE EXITING THE MAINTENANCE HOLE, HAND HOLE, PULLBOX, NOTE ON PAPER OR DIGITAL MEANS THE EXISTING AND NEW CABLE(S) LOCATION(S) AND ROUTE(S), AND PROVIDE A "BUTTERFLY" PRINT TO AHJ AND OWNER'S REPRESENTATIVE. LABEL THE INSTALLED MEDIA PER SPECIFICATIONS.
   c. WITH DIRECTION OF OWNER OR OWNER'S REPRESENTATIVE, CHOOSE AND PROVE ALL CONDUITS BEFORE THE INSTALLATION OF THE MEDIA. MEASURE ALL PATHWAYS WITH MULE-TAPE PRIOR TO ORDERING MATERIAL. ALL LABOR AND MATERIAL COSTS ASSOCIATED WITH DISCREPANCIES BETWEEN DRAWINGS AND VERIFIABLE SITE CONDITIONS SHALL BE BORNE BY CONTRACTOR. COORDINATE WITH THE ELECTRICAL OR GENERAL CONTRACTOR (EC OR GC), IF CONDUITS ARE PLUGGED OR MISSING PULL ROPE.
   d. TRAIL ALL BACKBONE MEDIA (I.E. COPPER, FIBER OR INNERDUCT) WITH A 3/8" YELLOW POLY-NYLON ROPE, LABEL THE ROPE, AND TIE OFF EITHER END, FOR FUTURE INSTALLATIONS.
   e. PROVIDE AND INSTALL ALL HARDWARE NECESSARY TO SUPPORT THE CABLING TO THE WALLS OF THE MAINTENANCE HOLE, HAND HOLES, PULLBOX. (IF IT DOES NOT ALREADY EXIST) THIS HARDWARE IS TO BE CONSTRUCTED FOR THE AREA IT IS TO BE INSTALLED AND DESIGNED FOR THE PURPOSE INTENDED FOR ITS USE.
   f. SCS AND/OR LV CONTRACTOR TO PROVIDE EXPANSION PLUGS IN ALL DUCTS/CONDUITS ENTERING THE BUILDING. SEAL ALL UNUSED DUCTS/CONDUITS WITH PLUGS THAT ALLOW THE PULL-STRING TO BE TIED OFF ON THE INSIDE.
6. INSIDE PLANT (ISP) PATHWAYS CAN BE BROKEN DOWN INTO THE FOLLOWING ITEMS, HOLLOW WALL PENETRATION, MINIMUM WALL PENETRATION, ACCESSIBLE CEILING SPACE, AND CONDUITS.
7. CABLE RACEWAYS AND CONDUITS SHALL NOT BE FILLED GREATER THAN THE CEC 2017, ARTICLE 725 AND BICSI RECOMMENDED FILL FOR THE PARTICULAR RACEWAY OR CONDUIT SIZE FOR CLASS 2/3 WIRE/CABLE.
   a. CONDUIT AND PATHWAY ROUTING SHOWN FOR THE SCS AND LV SYSTEMS ARE STRICTLY DIAGRAMMATICAL FOR THE PURPOSE OF THE BID TO ILLUSTRATE GENERAL METHODOLOGY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE BEST MEANS & METHODS FOR SCS & TECHNOLOGY CONDUIT AND PATHWAY INSTALLATION. ADDITIONALLY IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE INSTALLATION PLAN WITH THE OWNERS REPRESENTATIVE AND ALL TRADES PRIOR TO INSTALLATION. REFER TO PLANS AND GENERAL ELECTRICAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
   b. CONDUIT PATHWAYS SHALL BE SUPPLIED BY THE ELECTRICAL OR GENERAL CONTRACTOR AS PER THE DRAWINGS, OTHER CONDUITS (IF ANY) MAY NEED TO BE COORDINATED WITH THE EC AND/OR GC OF THE PROJECT.
   c. NO CABLE IS TO BE PULLED THROUGH A CONDUIT L-BEND "LB" (CONDULETS).
   d. ALL EXPOSED CONDUIT AND HARDWARE SHALL BE PAINTED TO MATCH SURROUNDING SURFACES. CONTRACT DISTRICT REPRESENTATIVE FOR PAINT COLORS.
   e. CONDUITS SHALL CONTAIN PLASTIC OR NYLON PULL TAPE RATED AT 200 LBS. WITH A MINIMUM OF 5 FEET OF EXTRA PULL TAPE COILED AT EACH END.
   f. TERMINATE CONDUIT STUBS AND SLEEVES THAT PROTRUDE THROUGH STRUCTURAL FLOORS 2"-3" ABOVE THE FLOOR SURFACE.
   g. INSTALL BUSHINGS AND BELL ENDS AS REQUIRED ON ALL CONDUITS.
   h. FLEX CONDUIT IS UNACCEPTABLE FOR USE AS A COMMUNICATIONS CONDUIT EXCEPT AT SEISMIC JOINTS AND/OR IF APPROVED IN WRITING BY THE ENGINEER.
   i. ALL UNDER SLAB OR IN-SLAB CONDUITS SHALL BE INSTALLED IN A MANNER THAT PREVENTS WATER INFILTRATION OF THE CONDUIT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROUND WATER, RAIN WATER OR CONSTRUCTION WATER IS PREVENTED FROM ENTERING AND/OR REMOVED FROM THE CONDUITS PRIOR TO PLACEMENT OF COMMUNICATIONS CABLES. SEE ELECTRICAL SPECIFICATIONS, DETAILS AND PLANS FOR ADDITIONAL CONDUIT SEALING REQUIREMENTS.
   j. PROVIDE LABELING OF EACH CONDUIT PER GENERAL ELECTRICAL SPECIFICATIONS.
   k. REINSTALL PULL-STRINGS IN ALL SCS AND LV ISP PATHWAYS AFTER USE TO FACILITATE FUTURE ADDITION OF CABLES.
   l. IT IS THE SCS AND/OR LV CONTRACTOR'S RESPONSIBILITY TO REPORT ANY UNUSABLE OR INADEQUATE CONDUIT RUNS TO THE OWNER PRIOR TO PULLING ANY CABLE.
   m. PULL BOXES ARE NOT TO BE USED IN LIEU OF A BEND, AND THE CONDUIT SHALL EXIT A PULLBOX ON THE WALL OPPOSITE THE WALL ENTERED.
   n. CONDUITS SHALL;
      - CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 30M (98 FT.)
      - CONTAIN NO MORE THAN (2) 90° BENDS OR (1) REVERSE BEND WITHOUT INSTALLING A PULLBOX SIZED PER STANDARDS & CODE.
      - SPLIT CONDUITS IN PLACE OF PULLBOXES ARE UNACCEPTABLE.
   o. CONDUIT BEND RADIUS SHALL BE;
      - A MINIMUM OF 6 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS 2" IN DIAMETER OR LESS.
      - A MINIMUM OF10 TIMES THE INTERNAL CONDUIT DIAMETER FOR CONDUITS MORE THAN 2" IN DIAMETER.
   p. POWER SEPARATION:
      - THE CONTRACTOR SHALL NOT PLACE ANY DISTRIBUTION CABLING ALONGSIDE POWER LINES, OR SHARE THE SAME CONDUIT, CHANNEL OR SLEEVE WITH ELECTRICAL APPARATUS . AT NO POINT SHALL THE COMMUNICATIONS CABLES BE TIED TO POWER CABLES OR OTHER BUILDING SERVICES. STATION CABLES AND TIE CABLES INSTALLED WITHIN CEILING SPACES SHALL BE ROUTED THROUGH THESE SPACES AT RIGHT ANGLES TO ELECTRICAL POWER CIRCUITS.
      - AVOID ELECTROMAGNETIC INTERFERENCE (EMI) BY MAINTAINING ADEQUATE PHYSICAL SEPARATION BETWEEN TECHNOLOGY CABLING AND POSSIBLE SOURCES SUCH AS, BUT NOT LIMITED TO, ELECTRIC MOTORS, ELECTRIC PENCIL SHARPENERS, TRANSFORMERS, FLUORESCENT LIGHTS THAT SHARE DISTRIBUTION SPACE WITH TELECOMMUNICATIONS CABLING, COPIERS THAT SHARE WORK AREA SPACE WITH LINE CORDS AND TERMINALS, LARGE FAX MACHINES AND POWER CORDS THAT SUPPORTS SUCH EQUIPMENT.

C. **TECHNOLOGY CABLING NOTES:**

1. THE USE OF LUBRICANTS SUCH AS CLEAR GLIDE, TO FACILITATE THE INSTALLATION OF CABLES IN CONDUITS IS ENCOURAGED FOR FRICTION REDUCTION AND TO MAINTAIN THE REQUIRED PULL TENSION. YELLOW 77 AND POLYWATER "I" IS PERMISSIBLE FOR USE AS A LUBRICANT FOR ISP TECHNOLOGY CABLING. THE USE OF OSP, LOW TEMPERATURE CABLE LUBRICANTS SHALL NOT BE ACCEPTABLE IN AN INDOOR PLENUM ENVIRONMENT. UNDER NO CIRCUMSTANCES SHALL CABLE PULLING LUBRICANT BE ALLOWED TO ACCUMULATE ON WALLS, FLOORS, BACKBOARDS, OR OTHER SURFACES OUTSIDE THE CONDUIT.
2. ANY CABLE DAMAGED OR EXCEEDING RECOMMENDED INSTALLATION PARAMETERS DURING INSTALLATION SHALL BE REPLACED BY THE CONTRACTOR BEFORE FINAL ACCEPTANCE AT NO COST TO THE OWNER.
3. EACH RUN OF CABLE BETWEEN THE TERMINATION BLOCK OR PATCH PANEL AND THE STATION CONNECTOR SHALL BE CONTINUOUS WITHOUT ANY JOINTS OR SPLICES.
4. ALL STATION CABLE SHALL BE PLACED IN THE INTERIOR OF WALLS UNLESS OTHERWISE NOTED OR OBSTRUCTED.
5. PROVIDE BUSHINGS, GROMMETS AND STRAIN-RELIEF FOR CABLES TERMINATING AT WALL-MOUNTED OUTLETS AND PATCH PANELS TO ENSURE DURABLE AND ROBUST CONNECTIONS. THE BUSHINGS AND GROMMETS ARE INTENDED TO PROTECT THE CABLES FROM ANY SHARP EDGES THAT PRESENT A RISK TO THE CABLES. ENSURE THAT ALL SHARP EDGES ARE COVERED TO PROTECT THE CABLES FROM DAMAGE.
6. ALL CABLE BUNDLES EXITING FLOOR OR WALL PENETRATIONS AND RUNNING INTO FURNITURE OR CASEWORK SHALL BE WRAPPED IN SPIRAL WRAP OR SPLIT-LOOM TUBING TO PROTECT THE CABLING AND PROVIDE A NEAT INSTALLATION.
7. ALL CABLE OR INNERDUCT SHALL RUN PARALLEL OR AT RIGHT ANGLES TO BUILDING WALL STRUCTURES.
8. IN SUSPENDED CEILING AND RAISED FLOOR AREAS WHERE DUCT, CABLE TRAYS OR CONDUIT ARE NOT AVAILABLE, CABLE BUNDLES SHALL BE SUPPORTED VIA "J" HOOKS ATTACHED TO THE BUILDING STRUCTURE AND FRAMEWORK AT A MAXIMUM OF FIVE (5) FOOT INTERVALS. MINIMUM 1" WIDE J-HOOKS SHALL BE APPROPRIATELY SIZED TO ALLOW A MINIMUM OF 60% SPARE CAPACITY FOR FUTURE CABLE INSTALLATION. THE CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID FOR ANY ADDITIONAL SUPPORTS/SEISMIC BRACING REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
9. THE CONTRACTOR SHALL BUNDLE, IN BUNDLES OF 48 OR LESS, STATION OR OTHER CABLING WITH 3/4" HOOK AND LOOP "VELCRO" STRIPS TIGHT ENOUGH TO HOLD THE BUNDLE TOGETHER IN A CYLINDRICAL SHAPE, BUT NOT SO TIGHT AS TO DEFORM THE CABLE GEOMETRY. IT SHALL BE POSSIBLE TO COMPLETELY ROTATE ALL HOOK AND LOOP TIES AROUND ALL CABLE BUNDLES. PLENUM RATED HOOK AND LOOP TIES WILL BE USED IN ALL PLENUM AREAS.
10. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO LIFT OUT CEILING GRID SUPPORTS OR LAID DIRECTLY ON THE CEILING GRID.
11. CABLES OR J-HOOKS SHALL NOT BE ATTACHED TO OR SUPPORTED BY FIRE SPRINKLER HEADS OR DELIVERY SYSTEMS OR ANY ENVIROMENTAL SENSOR LOCATED IN THE CEILING AIR SPACE.
12. WHERE ADDITIONAL CONDUIT(S)/SLEEVE(S) ARE REQUIRED, BUT NOT PROVIDED BY THE CONTRACTOR, THE SCS AND/OR LV CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE SUCH CONDUIT(S)/SLEEVE(S). CONDUIT(S) AND SLEEVE(S) SHALL BE OF SUITABLE MATERIAL, SIZED, INSTALLED, FIRE-STOPPED, AND GROUNDED AS REQUIRED BY THE CEC 2017, ANSI/TIA-569-D STANDARD AND ALL OTHER APPLICABLE CODES AND STANDARDS. SLEEVES SHALL CONSIST OF METALLIC CONDUIT DE-BURRED AND GROMMETTED ON BOTH ENDS WITH FLANGES OR OTHER MEANS TO PREVENT THE SLEEVE FROM SLIPPING OR FALLING OUT OF THE PARTITION. SLEEVES SHALL EXTEND A MINIMUM OF 6" ON BOTH SIDES OF THE PARTITION. OUTSIDE PERIMETER OF SLEEVES SHALL BE SEALED AGAINST SOUND, AIR, WATER, HEAT, OR AS REQUIRED BY PARTITION DESIGN. INSIDE OF SLEEVE SHALL BE SEALED SIMILARLY AFTER INSTALLATION OF ALL CABLING. CABLES SHALL BE INDEPENDENTLY SUPPORTED ON EITHER SIDE OF THE SLEEVE. SLEEVES SHALL NOT BE USED AS CABLE SUPPORTS. ANY CONDUIT(S) AND SLEEVE(S) ADDED BY THE SCS CONTRACTOR SHALL BE APPROVED BY THE OWNERS REPRESENTATIVE PRIOR TO ROUGH-IN.
13. IN THE EVENT CONTRACTOR IS REQUIRED TO REMOVE CEILING TILES, SUCH WORK SHALL NOT BREAK OR DISTURB GRID. REMOVAL OF THE CEILING GRID MUST BE COORDINATED WITH THE OWNERS REPRESENTATIVE. ALL INSULATION SHALL BE REPLACED IN ITS ORIGINAL LOCATION.
14. THE NUMBER OF CABLES IN EACH CONDUIT SHALL BE CONTROLLED TO ALLOW FOR FUTURE CABLE INSTALLATION AND TO STAY WITHIN THE MANUFACTURER'S MAXIMUM ALLOWABLE CABLE PULLING TENSION. CONDUIT FILL RATIOS SHALL NOT EXCEED THE CURRENT REQUIREMENTS OF THE CEC 2017, ANSI/TIA-569-D, REFERENCE SECTION B.2, TABLES 1 AND 2 OF THIS DOCUMENT FOR ADDITIONAL REQUIREMENTS.
15. CONDUITS:
    - ALL BACKBONE CABLING WILL RUN THROUGH DEDICATED CONDUITS.
    - ALL NEW CONDUITS WILL BE SUPPLIED WITH A PULL STRING BY THE CONTRACTOR.
    - EXISTING CONDUITS SHALL BE PROVEN TO BE CLEAR BY THE SCS AND/OR LV CONTRACTOR PRIOR TO PULLING OF CABLES.
    - SCS AND/OR LV CONTRACTOR SHALL SUPPLY PULL STRING AND PULL ROPE FOR THE INSTALLATION OF ALL CABLES IN EXISTING CONDUITS.
    - FOR ALL CONDUITS LEFT WITH AVAILABLE CAPACITY, SCS AND/OR LV CONTRACTOR SHALL REPLACE PULL STRINGS DURING THE COURSE OF HIS WORK.
    - SCS AND/OR LV CONTRACTOR MUST SEAL ALL CONDUITS WITH AN APPROVED SEALING COMPOUND.

D. **TECHNOLOGY GROUNDING SYSTEM NOTES.**

1. THE CONTRACTOR SHALL PROVIDE A TELECOMMUNICATION GROUNDING BUSSBAR (TGB) AND TELECOMMUNICATION BONDING BACKBONE (TBB) CABLE(S) AT EACH MDF ROOM AND IDF LOCATION. TERMINATE THE TBB ON GROUND BARS LOCATED AT EACH MDF ROOM AND IDF CABINET FROM BUILDING STEAL OR MAIN ELECTRICAL GROUND, OR AS OTHERWISE INDICATED ON THE DRAWINGS.
2. THE SCS CONTRACTOR SHALL UTILIZE A TELECOMMUNICATIONS BONDING BACKBONE (TBB) AS INDICATED IN THE DRAWINGS. GROUNDING MUST BE IN ACCORDANCE WITH THE CEC 2017, ANSI/TIA-607-B AND ALL LOCAL CODES AND PRACTICES.
3. THE SCS CONTRACTOR SHALL BE RESPONSIBLE FOR BONDING ALL METALLIC SHEATH COMMUNICATIONS CABLES ENTERING THE BUILDING PER MANUFACTURER SPEC

TECHNOLOGY SYMBOL LEGEND

ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

SYMBOL	DESCRIPTION
	TELECOM
#	TELEPHONE OUTLET, 4-11/16" SQ. x 2-1/8" DEEP BOX W/ SINGLE DEVICE RING & PLATE @ +16" TO BOTTOM OF BOX & 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE, UNO
#	DATA OUTLET, 4-11/16" SQ. x 2-1/8" DEEP BOX W/ SINGLE DEVICE RING & PLATE @ +16" TO BOTTOM OF BOX & 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE, UNO
#	TELE/DATA OUTLET, 4-11/16" SQ. x 2-1/8" DEEP BOX W/ SINGLE DEVICE RING & PLATE @ +16" TO BOTTOM OF BOX & (2) 3/4" CONDUIT STUB UP TO ACCESSIBLE CLG SPACE, UNO
# A	TELE/DATA OUTLET, 4-11/16" SQ. x 2-1/8" DEEP BOX W/ SINGLE DEVICE RING & PLATE ABOVE COUNTER (ABOVE BACKSPLASH) AND (2) 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE, UNO
#	FLOOR MOUNTED DATA OUTLET, FLUSH IN FINISHED FLOOR - SIZE PER PLAN
#	FLOOR MOUNTED TELEPHONE OUTLET, FLUSH IN FINISHED FLOOR - SIZE PER PLAN
#	FLOOR MOUNTED TELEPHONE/DATA OUTLET, FLUSH IN FINISHED FLOOR - SIZE PER PLAN
#	CEILING MOUNTED DATA OUTLET, 4" SQ. BOX WITH SINGLE DEVICE RING & PLATE
	# DENOTES ACTIVE DATA JACK QUANTITY. REFERENCE TO TECHNOLOGY DATA SCHEDULE.
TV1	DATA OUTLET FOR TV, 4-11/16" SQ. x 2-1/8" DEEP BOX W/ SINGLE DEVICE RING & PLATE @ +16" TO BOTTOM OF BOX & 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE, UNO
WAP	WIRELESS ACCESS POINT, 4" SQ. BOX W/ 1 GANG RING FOR INDOOR LOCATIONS. (2) CAT6A
	TELEPHONE TERMINAL BACKBOARD
TV	COAXIAL CABLE OUTLET
	CLOCK, COORDINATE SIZE OF BACKBOX AND CONDUIT W/ MANUFACTURERS RECOMMENDATIONS
	INTERCOM SPEAKER AND CLOCK COMBINATION, 4" SQ. x 2-1/8" DEPTH BOX W/ 2 GANG RING 3/4" CONDUIT STUB UP TO ACCESSIBLE CEILING SPACE
S	CEILING MOUNTED AV SPEAKER, COORDINATE SIZE OF BACKBOX AND CONDUIT W/ MANUFACTURERS RECOMMENDATIONS
S	WALL MOUNTED AV SPEAKER, COORDINATE SIZE OF BACKBOX AND CONDUIT W/ MANUFACTURERS RECOMMENDATIONS
S	CEILING MOUNTED INTERCOM SPEAKER, COORDINATE SIZE OF BACKBOX AND CONDUIT W/ MANUFACTURERS RECOMENDATIONS
S	WALL MOUNTED INTERCOM SPEAKER, COORDINATE SIZE OF BACKBOX AND CONDUIT W/ MANUFACTURERS RECOMENDATIONS
EH	EMERGENCY HELP BUTTON
AV	AV OUTPUT, 5" SQ. x 2-7/8" DEEP BOX (TP5SQ100125 OR EQUAL) W/ SINGLE DEVICE RING & PLATE @ THE BACK OF THE TV & 1-1/4" CONDUIT CONNECTED TO AV INPUT, UNO
AV	AV INPUT, 5" SQ. x 2-7/8" DEEP BOX (TP5SQ100125 OR EQUAL) W/ SINGLE DEVICE RING & PLATE & 1-1/4" CONDUIT CONNECTED TO AV OUTPUT, UNO

NOTES:
1. REFERENCE AUDIO VISUAL SPECIFICATIONS AND MANUFACTURER GUIDELINES WHEN DETERMINING BACK BOX SIZE FOR AV EQUIPMENT.
2. USE EXTENSION RINGS IF NEEDED, ON ALL LOCATIONS.
3. REFERENCE EIA/TIA STANDARDS.

ELECTRICAL SYMBOL LEGEND

ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARY USED ON PLANS IF NOT REQUIRED

SYMBOL	DESCRIPTION
	LIGHTING
	LED LUMINAIRE - T-BAR LAY-IN
	LED LUMINAIRE - RECESSED IN GYPBOARD
	LED LUMINAIRE - SURFACE
	LED LUMINAIRE - SUSPENDED
	LED STRIP LIGHT - SURFACE OR SUSPENDED
	DOWNLIGHT LUMINAIRE - RECESSED
	WALLWASH LUMINAIRE - RECESSED
	LUMINAIRE - SURFACE
	LUMINAIRE - WALL
	LUMINAIRE - PENDANT
	TRACK LIGHT - SUSPENDED OR SURFACE MOUNTED
	CONTINUOUS LINEAR LED TAPE OR LED COVE LIGHT
NL EM EM /NL	-HATCHED LUMINAIRE WITH "EM" ABBREVIATION INDICATES AN EMERGENCY LUMINAIRE WITH 90 MINUTE EMERGENCY BATTERY PACK. - LUMINAIRE WITH "NL" ABBREVIATION INDICATES A NIGHT LIGHT LUMINAIRE. -HATCHED LUMINAIRE WITH "EM/NL" ABBREVIATION INDICATES NIGHT LIGHT WITH 90 MINUTE EMERGENCY BATTERY PACK.
	DOUBLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL)
	SINGLE FACE EXIT SIGN. SEE LIGHTING FIXTURE SCHEDULE FOR SPECIFICATION. DIRECTIONAL ARROW AS INDICATED ON PLANS. (CEILING OR WALL)
	COMBINATION EMERGENCY EXIT SIGN WITH DUAL HEAD LIGHTS WITH EMERGENCY BATTERY BACK-UP.
	BATTERY POWERED EMERGENCY EGRESS LUMINAIRE - SURFACE MOUNTED
	SPOT/FLOOD LUMINAIRE - CEILING
	SPOT/FLOOD LUMINAIRE - ABOVE GROUND
	EXTERIOR POLE FIXTURE - SINGLE HEAD
	EXTERIOR POLE FIXTURE - TWIN HEAD
	EXTERIOR PATHWAY POLE FIXTURE
	BOLLARD FIXTURE
	STEP LUMINAIRE
	LIGHTING CONTROLS
$	SINGLE POLE TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO.
$3	THREE WAY TOGGLE SWITCH, 20A, 120-277V @ +46" TO TOP OF BOX, UNO.
$abc	SUBSCRIPTS "a b c" DESIGNATE THE QUANTITY OF SWITCHES AT EACH LOCATION (TYPICAL FOR ALL SWITCH TYPES).
$T	THERMAL OVERLOAD SWITCH
$M	MOTOR RATED SWITCH
$K	SINGLE POLE KEYED TOGGLE SWITCH 20A, 120-277V @ +46" TO TOP OF BOX, UNO. INDUSTRIAL GRADE, BARREL TYPE, BRYANT #4901RKL OR EQUAL.
	PUSH BUTTON
D	WALL MOUNTED ROCKER SWITCH
D	WALL MOUNTED 0-10V DIMMER SWITCH
OS	DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR
PW	PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR
DW	DUAL TECH WALL OCCUPANCY SENSOR
OD	PASSIVE INFRARED WALL OCCUPANCY SENSOR SWITCH WITH 0-10V DIMMING
OR	DIGITAL WALL CONTROL (OVERRIDE SWITCH). RUN CABLING BACK TO LIGHTING CONTROL PANEL.
M	CORNER MOUNT MOTION SENSOR. DUAL TECHNOLOGY
M	CEILING MOTION SENSOR. DUAL TECHNOLOGY
PC	PHOTO SENSOR
DS	SKYLIGHT PHOTOCONTROL SENSOR
DO	OPEN LOOP PHOTOCONTROL SENSOR
DC	CLOSED LOOP PHOTOCONTROL SENSOR
	CEILING EXHAUST FAN
	DIGITAL LIGHTING MANAGEMENT (DLM) LIGHTING CONTROLS (B.O.D. = WATTSTOPPER)
D1	1-BUTTON DIGITAL DIMMER, ON/OFF, RAISE/LOWER (LMDM-101)
D2	(2X) 1-BUTTON DIGITAL DIMMER, ON/OFF, RAISE/LOWER ((2X) LMDM-101)
D7	DUAL TECH 2-BUTTON WALL OCUPANCY SENSOR, ON/OFF, RAISE/LOWER (LMDW-102)
DD	DIGITAL DUAL TECH DIGITAL CEILING SENSOR (LMDC-100)
D	DIGITAL DUAL TECH DIGITAL CORNER SENSOR (LMDX-100)
PL	PLUG LOAD CONTROLLER (LMPL-101)

SYMBOL	DESCRIPTION
	POWER
	MAIN SWITCHBOARD OR DISTRIBUTION PANEL AS NOTED
	RECESSED MOUNTED LIGHTING OR DISTRIBUTION PANEL
	SURFACE MOUNTED LIGHTING OR DISTRIBUTION PANEL
	RECESSED TERMINAL CABINET w/ 3/4"C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO.
	SURFACE MOUNTED TERMINAL CABINET w/ 3/4"C PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UNO.
T	DISTRIBUTION TRANSFORMER, MOUNTING AND SIZE AS NOTED
	NON-FUSED DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH; SIZE DISCONNECT AND FUSES PER UNIT LABEL
	NON-FUSED / FUSED DISCONNECT; SEE DISCONNECT SWITCH SCHEDULE
	MOTOR STARTER/CONTROLLER
	COMBINATION CIRCUIT BREAKER DISCONNECT/MOTOR STARTER.
	COMBINATION FUSIBLE DISCONNECT/MOTOR CONTROLLER; PROVIDE FUSES PER MANUFACTURER'S REQUIREMENTS. N.F. INDICATES NON-FUSED.
	MOTOR
	POWER CONNECTION
	DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP (ABOVE BACKSPLASH).
	ISOLATED GROUND DUPLEX RECEPTACLE, 20A, 120V @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	GFCI DUPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH
	ISOLATED GROUND GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO
	FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	FOURPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP (ABOVE BACKSPLASH).
	ISOLATED GROUNDED FOURPLEX RECEPTACLE 20A, 120V @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	GFCI FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	GFCI FOURPLEX RECEPTACLE OUTLET MOUNTED ABOVE COUNTER TOP AND/OR SINK BACKSPLASH
	ISOLATED GROUND GFCI FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED GFCI FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	CONTROLLED/UNCONTROLLED FOURPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX
A	CONTROLLED/UNCONTROLLED FOURPLEX RECEPTACLE OUTLET 20A, 120V, MOUNTED ABOVE COUNTER (ABOVE BACKSPLASH).
	SPECIAL RECEPTACLE OUTLET, SIZE AND NEMA CONFIGURATION AS NOTED, MOUNTED @ +16" TO BOTTOM OF BOX, UNO.
	FLOOR MOUNTED DUPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR
	FLOOR MOUNTED FOURPLEX RECEPTACLE, 20A, 125V FLUSH IN FINISHED FLOOR
	CEILING MOUNTED DUPLEX RECEPTACLE, 20A, 125V
	CEILING MOUNTED FOURPLEX RECEPTACLE, 20A, 125V
	JUNCTION BOX - SIZE AS REQUIRED BY CODE. (WALL MOUNTED AND REGULAR)
	JUNCTION BOX (FLOOR MOUNTED) - SIZE AS REQUIRED BY CODE.
	PLUGMOLD
	POWER POLE
	POWER AND TELEPHONE POKE THROUGH FOR PARTITION FURNITURE
	FLOOR MOUNTED COMBO DUPLEX RECEPTACLE / TELEPHONE/DATA
	FLOOR MOUNTED COMBO FOURPLEX RECEPTACLE / TELEPHONE/DATA
	CIRCUITS
	ARROW
	STUB
	STUB AND ARROW
	CONTINUATION
	CONDUIT RISER - UP
	CONDUIT DROP - DOWN
	CONDUIT CONCEALED IN CEILING OR WALL.
	CONDUIT CONCEALED IN FLOOR OR UNDERGROUND

SYMBOL	DESCRIPTION
	CIRCUITS
	EXISTING CONDUIT TO REMAIN.
	CONDUIT & CONDUCTORS FOR LOW VOLTAGE MOTION SENSORS
	EXISTING CONDUIT AND/OR CONDUCTORS TO BE REMOVED. UNDERGROUND CONDUIT MAY BE ABANDONED IN PLACE.
	HOMERUN TO PANELBOARD OR TERMINAL CABINET w/ CONDUCTORS AS NOTED
#	CIRCUIT CONDUTORS: LONG DASH INDICATES NEUTRAL CONDUCTOR; SHORT DASHES INDICATE PHASE CONDUCTORS; CURVED DASH INDICATES EQUIPMENT GROUNDING CONDUCTOR. NUMBER BY DASHES INDICATE WIRE GAUGE OTHER THAN 12 AWG CU. NO DASHES INDICATE 2#12 CU, 1#12 CU GND, IN 1/2" CONDUIT. OTHERS AS NOTED ON PLAN.
	FLEXIBLE CONDUIT, 6'-0" LONG MAX. w/ #12 CU GROUND UON.
	TAGS AND LEADERS
	BRACKET
	LEADERS
X	KEY NOTE SHOWN ON SAME SHEET
X	LIGHT FIXTURE TAG
X	FEEDER DESIGNATION TAG
X	KITCHEN EQUIPMENT DESIGNATION TAG
x Ex.1	DETAIL DESIGNATION: TOP LETTER INDICATES DETAIL, BOTTOM LETTER / NUMBER INDICATES SHEET
REF x	MECHANICAL EQUIPMENT I.D. TAG - MP&S
	ONE LINE DIAGRAM
(N) PANEL "A" 100A	PANEL IDENTIFICATION
100A 3P	CIRCUIT BREAKER
100A 3P	FUSED SWITCH
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
	GROUND
	UNDERGROUND TERMINATION SERVICE LUG
M	UTILITY METER
M	UTILITY METER WITH C.T. COMPARTMENT METER SOCKET
	TRANSFORMER WITH GROUND
	UFER GROUND
	BOND TO COLD WATER PIPE, GAS PIPE, BUILDING STEEL
	AUTOMATIC TRANSFER SWITCH
	NEUTRAL LINK
SPD	SURGE PROTECTION DEVICE

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SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

ELECTRICAL & TECHNOLOGY SYMBOL LEGEND

SHEET

E-003

V1

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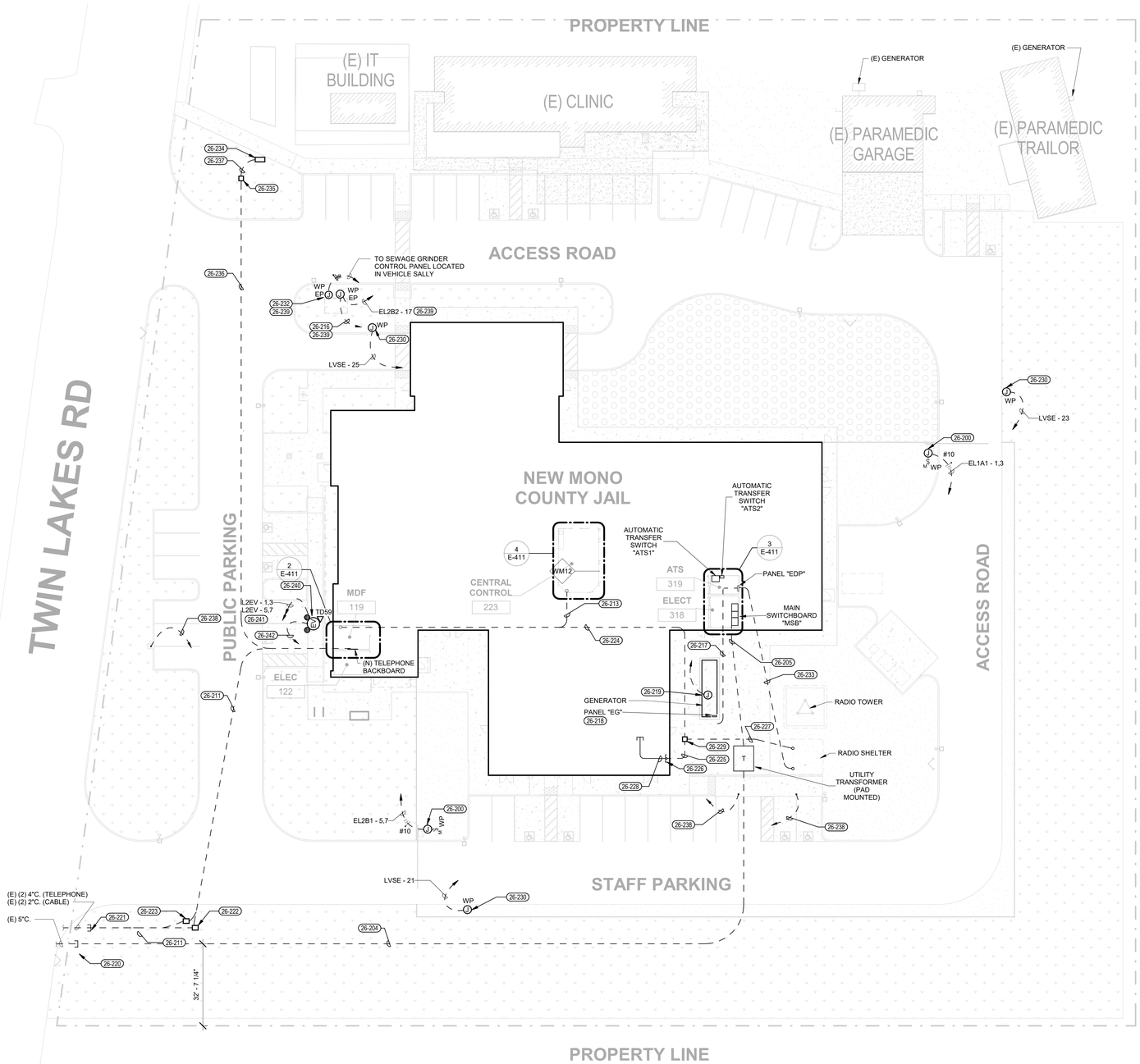

1 ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

KEY NOTES

(25-XXX)

26-200 PROVIDE WEATHERPROOF DISCONNECT SWITCH AND CONNECT TO GATE OPERATOR. 208V/1Ø, 2HP.

26-204 PROVIDE (N) PRIMARY UNDERGROUND CONDUITS TO SCE POINT OF CONNECTION

26-205 PROVIDE UNDERGROUND SECONDARY SERVICE CONDUITS PER UTILITY COMPANY STANDARDS. COORDINATE AL REQUIREMENTS WITH UTILITY COMPANY.

26-211 PROVIDE (2) 4" C. W/ POLY ROPE FOR TELEPHONE SERVICE, AND (2) 2" C. W/ POLY ROPE FOR CABLE TV SERVICE.

26-213 PROVIDE (4) 4" CONDUITS SCHEDULE 80 FOR RADIO CABLING. COORDINATE STUB-UP LOCATIONS WITH COUNTY.

26-216 PROVIDE 1" CONDUIT WITH COMMUNICATION WIRING TO SEWAGE GRINDER ALARM PANEL IN VEHICLE SALLY.

26-217 SEE ONE LINE DIAGRAM FOR CONDUITS AND FEEDER SIZES AND QUANITIES. PROVIDE 1" CONDUIT WITH COMMUNICATION CABLE FOR COMMUNICATION WITH ATS. COORDINATE TERMINATIONS AT GENERATOR WITH EQUIPMENT MANUFACTURER.

26-218 PANEL INTEGRAL TO GENERATOR. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

26-219 PROVIDE 1" CONDUIT WITH CABLE TO REMOTE ANNUNCIATOR LOCATED IN CENTRAL CONTROL #223.

26-220 INTERCEPT (E) PRIMARY CONDUITS AND EXTEND TO (N) UTILITY TRANSFORMER. FIELD VERIFY EXACT LOCATION AND COORDINATE ROUTING AND REQUIREMENTS WITH UTILITY COMPANY

26-221 INTERCEPT (E) TELEPHONE AND CABLE CONDUITS AND EXTEND TO BUILDING MDF. FIELD VERIFY EXACT LOCATION AND COORDINATE ROUTING AND REQUIREMENTS WITH UTILITY COMPANIES.

26-222 PROVIDE UNDERGROUND PULLBOX PER AT&T REQUIREMENTS - SIZE AS REQUIRED. COORDINATE WITH AT&T FOR THEIR REQUIREMENTS PRIOR TO INSTALL.

26-223 PROVIDE UNDERGROUND PULLBOX PER CALIFORNIA BROADBAND COOPERATIVE REQUIREMENTS - SIZE AS REQUIRED. COORDINATE WITH UTILITY COMPANY FOR THEIR REQUIREMENTS PRIOR TO INSTALL.

26-224 PROVIDE (1) 4" UNDERGROUND CONDUIT SCHEDULE 80 FOR FIBER.

26-225 PROVIDE (1) 4" UNDERGROUND CONDUIT SCHEDULE 80 FOR DAS COAX.

26-226 PROVIDE 36" X 36" X 6" PULL BOX WITH COVER.

26-227 PROVIDE (1) 4" UNDERGROUND CONDUIT SCHEDULE 80 FOR FIBER AND (1) 4" UNDERGROUND CONDUIT SCHEDULE 80 FOR DAS COAX.

26-228 PROVIDE (1) 4" CONDUIT FOR DAS COAX AND STUB IN ACCESSIBLE CEILING SPACE.

26-229 PROVIDE 24"W X 36"L X 12"D UNDERGROUND PULL BOX WITH TRAFFIC RATED LID.

26-230 PEDESTAL MOUNTED INTERCOM. PROVIDE POWER (120V, 20A), AND PROVIDE (1) 2"C. FOR FIBER OPTIC CABLE TO ELECTRONIC SECURITY CABINETS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT INSTALLER.

26-232 PROVIDE CLASS 1, DIVISION 1 SEAL OFFS IN CONDUITS FOR CONNECTIONS TO SEWAGE GRINDER PUMP VAULT.

26-233 SEE ONE LINE DIAGRAM FOR CONDUIT AND FEEDER SIZES AND QUANTITIES.

26-234 APPROXIMATE LOCATION OF (E) FIBER VAULT. FIELD VERIFY EXACT LOCATION.

26-235 PROVIDE 24" X 36" X 24" PULL BOX PER DIGITAL 395 STANDARDS. COORDINATE EXACT LOCATION IN FIELD WITH DIGITAL 395 AGENT.

26-236 PROVIDE 1-1/4" SDR 11 C. WITH MULL TAPE TO MPOE. COORDINATE ALL REQUIREMENTS WITH DIGITAL 395 AGENT.

26-237 PROVIDE 1-1/4" SDR 11 C. WITH MULL TAPE. COORDINATE ALL REQUIREMENTS AND PENETRATION INTO (E) VAULT WITH DIGITAL 395 AGENT.

26-238 PROVIDE 1"C. W/ PULL STRING (POWER) STUBBED IN PANEL "L2EV" AND 1"C. W/ PULL STRING (COMMUNICATIONS) STUBBED IN MDF 119, FOR FUTURE LEVEL 2 EV CHARGERS. AT PARKING LOT, STUB CONDUIT INSIDE POST 6" AFG AND CAP. COORDINATE EXACT LOCATION AND STUB-UP REQUIREMENTS WITH ARCHITECT.

26-239 PROVIDE CLASS 1, DIVISION 1 SEAL OFFS IN CONDUITS FOR CONNECTIONS TO SEWAGE GRINDER PUMP VAULT.

26-240 PROVIDE LEVEL 2 DUAL PORT BOLLARD MOUNT EV CHARGING STATION CHARGEPOINT CT4012-GW1/CT4001-CCM WITH INTEGRAL GATEWAY MODEM, 2 YEAR WARRANTY (CT4000-ASSURE 2), POWER MANAGEMENT KIT (CT4000-PMGMT) AND CHARGEPOINT NETWORK SERVICES. PROVIDE CERTIFIED CHARGEPOINT STATION INSTALLATION AND SITE VALIDATION SERVICES. SITE VALIDATION IS REQUIRED FOR EACH GATEWAY UNIT INSTALLED ((2X) 7.2KW, 208V/1ϕ).

26-241 1"C. W/ 4#8 CU & 1#10 CU GND.

26-242 PROVIDE 1"C. W/ NETWORK CABLING TO MDF 119 NETWORK RACK. AT PARKING LOT, STUB CONDUIT INSIDE POST 6" AFG. COORDINATE EXACT LOCATION AND STUB-UP REQUIREMENTS WITH ARCHITECT.

GENERAL NOTES

1. ALL UNDERGROUND CONDUITS, RISERS, AND SWEEPS SUPPORTING THE RADIO SHELTER SHALL BE PVC SCHEDULE 80. CONDUIT SWEEPS SHALL HAVE A MINIMUM 36" RADIUS.

DRAFT

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SHEET
ES101
V1

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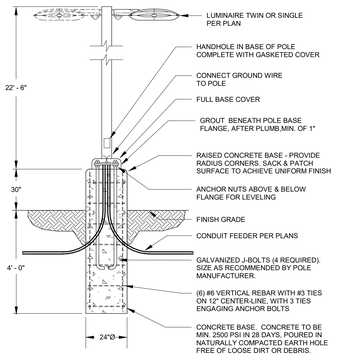
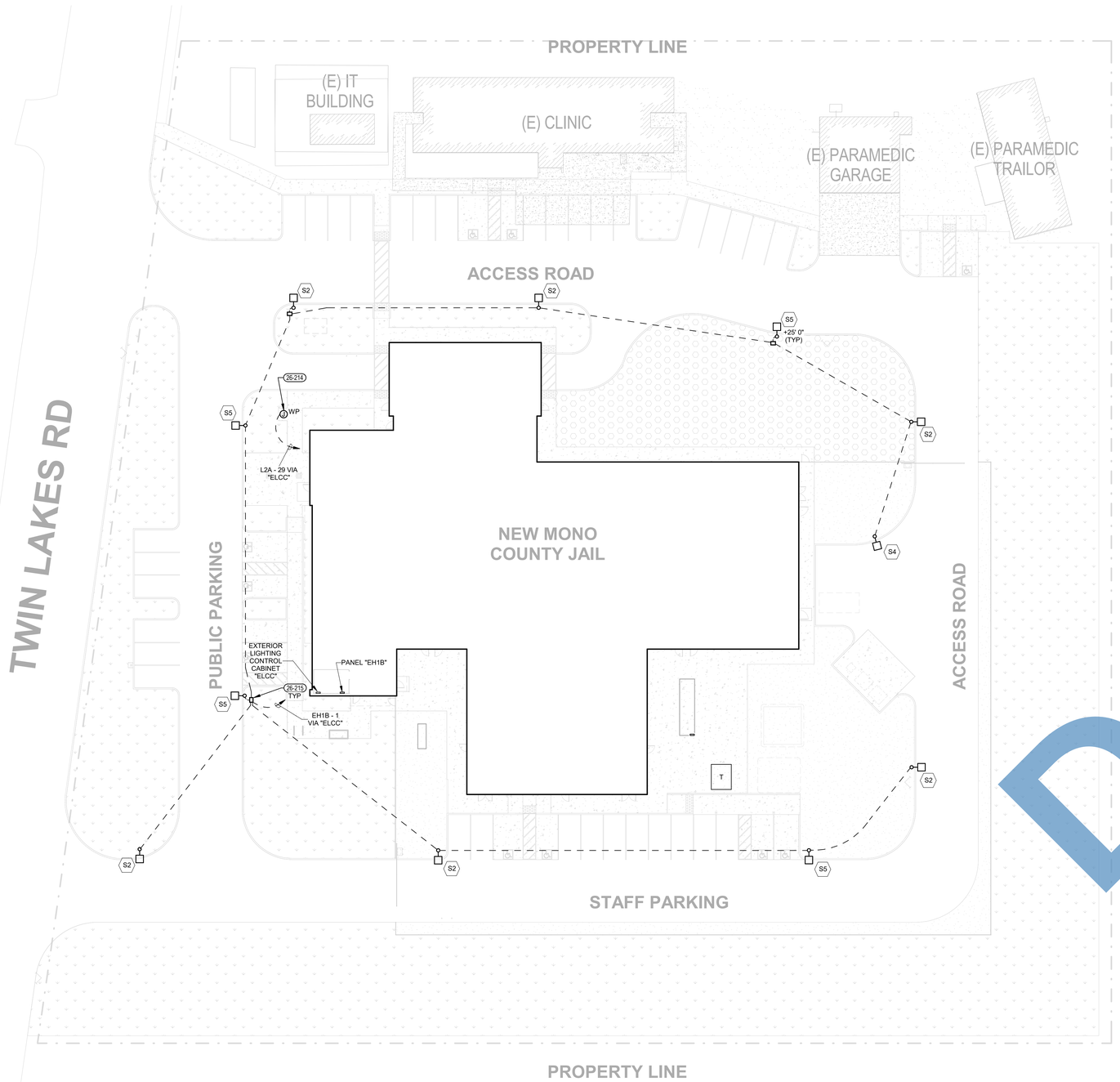


2 POLE FIXTURE DETAIL

SCALE: 1/4" = 1'-0"



1 SITE LIGHTING PLAN

SCALE: 1" = 20'-0"

PLAN NORTH

KEY NOTES

(25-XXX)

26-214 FLAG POLE WITH INTEGRAL LIGHT.

26-215 PROVIDE FLUSH UNDERGROUND PULLBOX 10 1/4" x 16 3/4" WITH BOLT ON REINFORCED CONCRETE LID AND "LIGHTING" ENGRAVED ON LID.

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
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TITLE
SITE LIGHTING PLAN

SHEET
ES121

V1

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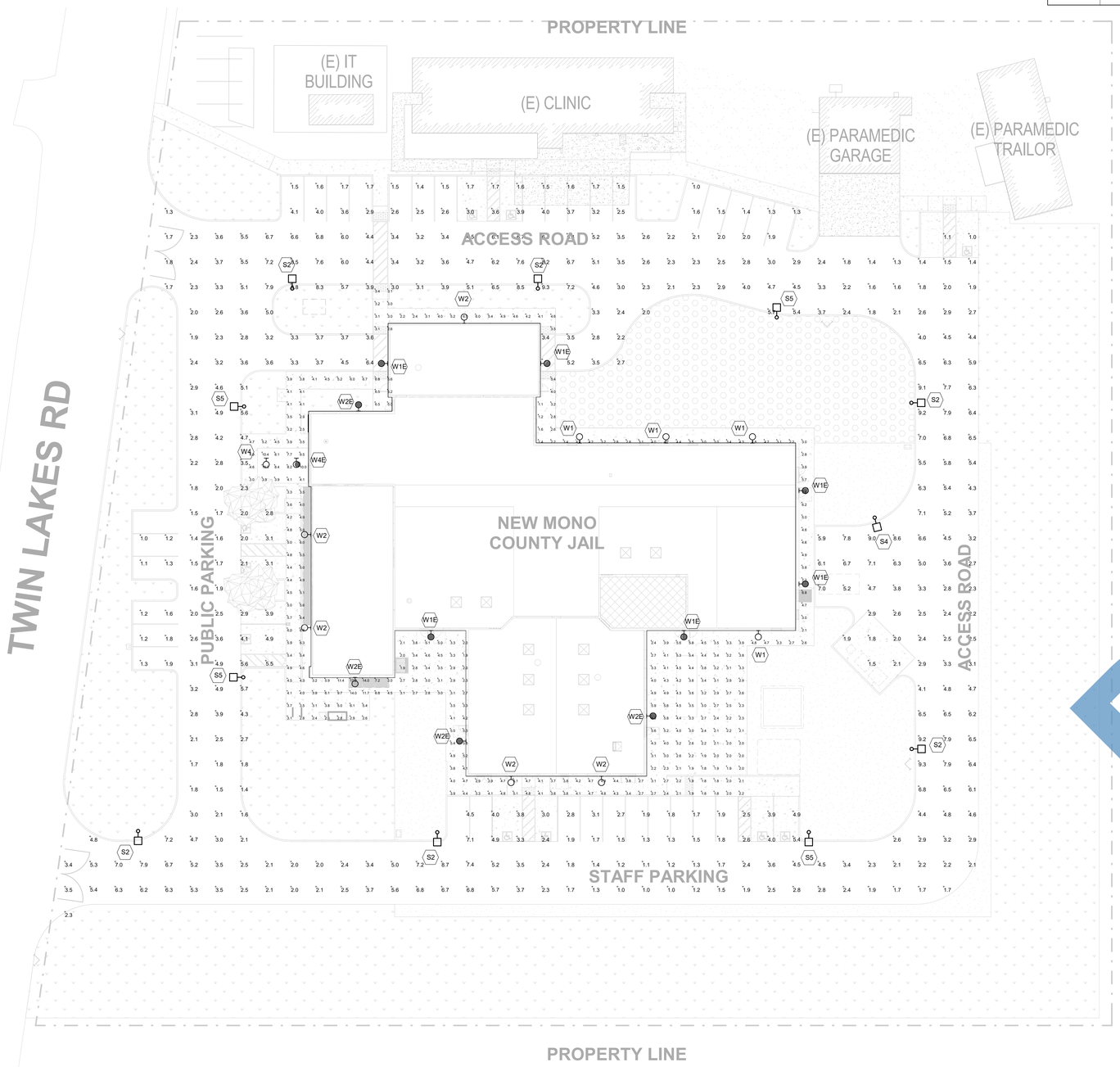
8/25/2023 11:14:47 AM

LUMINAIRE SCHEDULE						
Scene: GENERAL						
Symbol	Label	Arrangement	Description	Lum. Lumens	LLF	Filename
	S2	SINGLE	LEOTEK AR18-96N-MV-NW-2-xx-250	25874	0.900	AR18-96N-MV-NW-2-XX-250.ies
	S4	SINGLE	LEOTEK AR18-96N-MV-NW-4-xx-250	25967	0.900	AR18-96N-MV-NW-4-XX-250.ies
	S5	Single	LEOTEK AR18-96N-MV-NW-5-xx-250	25255	0.900	AR18-96N-MV-NW-5-XX-250.ies
	W1	SINGLE	LEOTEK ES1-24H-MV-NW-FT-xx-530	4548	0.900	IES ES1-24H-MV-NW-FT-XX-530 043015.ies
	W1E	SINGLE	LEOTEK ES1-24H-MV-NW-FT-xx-530-EM	4548	0.900	IES ES1-24H-MV-NW-FT-XX-530 043015.ies
	W2	SINGLE	LEOTEK ES1-24H-MV-NW-W-xx-530	4541	0.900	IES ES1-24H-MV-NW-W-XX-530 040815.ies
	W2E	SINGLE	LEOTEK ES1-24H-MV-NW-W-xx-530-EM	4541	0.900	IES ES1-24H-MV-NW-W-XX-530 040815.ies
	W4	SINGLE	METEOR LA4-20-408-UNV-xx-WDWD-xx	1615	0.900	LA4-20-408-XXX-XXX-WDWD-XXX-XXX.ies
	W4E	SINGLE	METEOR LA4-20-408-UNV-xx-WDWD-xx (REMOTE BATTERY PACK)	1615	0.900	LA4-20-408-XXX-XXX-WDWD-XXX-XXX.ies

CALCULATION SUMMARY							
Scene: GENERAL							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING	Illuminance	Fc	3.64	9.8	1.0	3.64	9.80
SIGN_Side_4	Illuminance	Fc	5.53	5.7	5.3	1.04	1.08
WALKWAY	Illuminance	Fc	4.08	17.0	1.1	3.71	15.45



2 SITE LIGHTING PHOTOMETRIC PLAN

SCALE: 1" = 20'-0"

PLAN NORTH

Draft

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GOVMOTUS No:22-N-3854-CP-DR

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CHRISTIAN PADURARIU
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EXP. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

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TITLE
SITE LIGHTING PHOTOMETRIC PLAN

SHEET
ES161

V1

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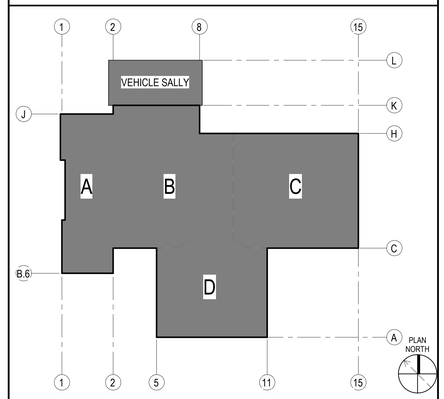
1 **POWER & TECHNOLOGY PLAN - LEVEL 1 - OVERALL**
SCALE: 1/8" = 1'-0"

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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TITLE
POWER & TECHNOLOGY PLAN - LEVEL 1 - OVERALL

SHEET
EP111

V1

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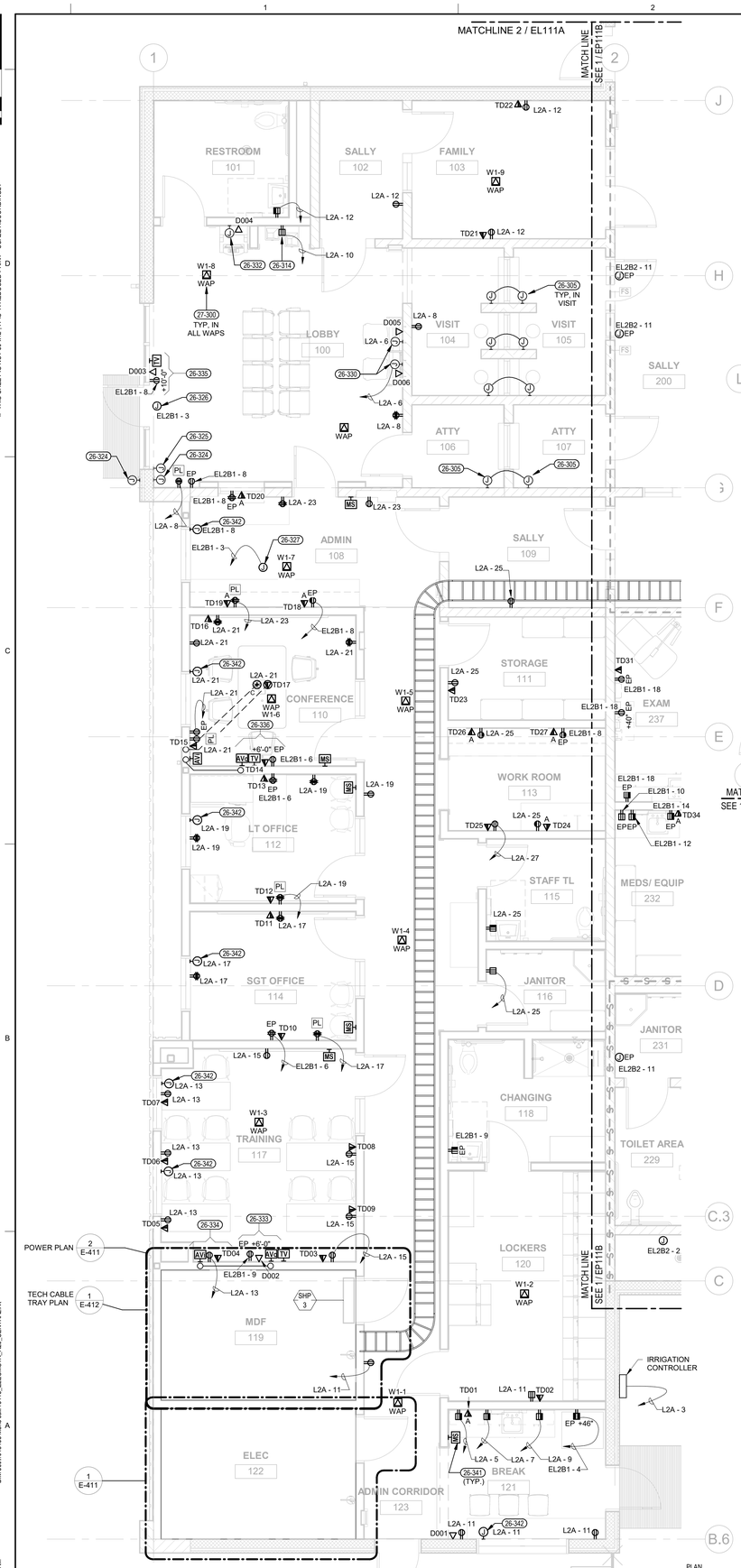
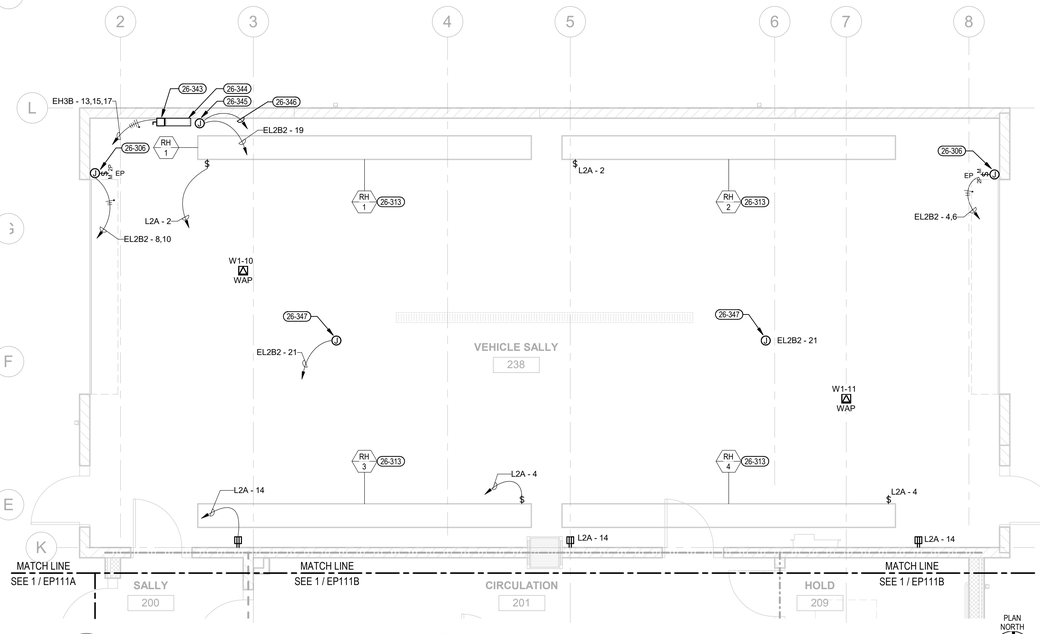


1 POWER & TECHNOLOGY PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SCALE: 1/4" = 1'-0"



2 POWER PLAN - LEVEL 1 - ENLARGED - VEHICLE SALLY

SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALL, AND CEILINGS. "THROUGH" PENETRATIONS SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED (CBC 714.4.2). SEE CORRESPONDING DETAILS(S) FOR EACH OF THE FOLOWING TYPES OF PENETRATIONS:
   a. CMU WALL: 2/E-513, 3/E-514, 5/E-514.
   b. METAL STUD WALL: 1/E-513, 2/E-514, 4/E-514.
2. PROVIDE FIRE STOPPING AT ALL MEMBRANE PENETRATIONS (I.E. ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS) WITH A F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED. SEE DETAIL 1/E-514.
3. EC SHALL PROVIDE ALL REQUIRED CONDUITS FOR THE ELECTRONIC SECURITY SYSTEM EQUIPMENT. SEE ELECTRONIC SECURITY PLANS FOR LOCATIONS, SPECIFICATIONS, QUANTITIES, AND SIZES.

KEY NOTES

(26-XXX)

26-305 VISITATION SYSTEM PHONES. PROVIDE OUTLET ON EACH SIDE OF VISITATION STATION WITH 3/4"C. CONNECTION BETWEEN BOXES. INSTALLL CONDUIT AND PULL WIRE UP TO POWER SUPPLY ABOVE CEILING. COORDIINATED WITH EQUIPMENT INSTALLER AT JOBSITE.

26-306 PROVIDE DISCONNECT SWITCH AND CONNECT TO MOTORIZED GATE OPERATOR. 208V/1Ø, 1HP.

26-313 120V/1Ø, IGNITION/RUNNING CURRENT: 4.8A/1.1A.

26-314 DRINKING FOUNTAIN (DF-1): 115V/1Ø. 1 FLA, 370W, COORDINATE EXACT LOCATION WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

26-324 LOCATE JBOX AND PROVIDE 3/4" CONDUIT AND CABLING FOR AUTOMATIC DOOR ACTUATOR. COORDINATE ALL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.

26-325 LOCATE SINGLE GANG JBOX AND PROVIDE 3/4" CONDUIT AND CABLING FOR AUTOMATIC DOOR SWITCH. COORDINATE ALL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.

26-326 LOCATE JBOX AND PROVIDE 3/4" CONDUIT AND CABLING FOR AUTOMATIC DOOR OPERATOR. COORDINATE ALL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.

26-327 POWER SUPPLY FOR AUTOMATIC DOOR IN LOBBY 100: 120V, 15A. LOCATE POWER SUPPLY IN ACCESSIBLE CEILING SPACE, IN MIDDLE OF THE ROOM FOR EASY ACCESS. PROVIDE ALL CONDUITS AND CABLING REQUIRED TO AUTOMATIC DOOR OPERATOR. COORDINATE ALL REQUIREMENTS WITH DOOR INSTALLER PRIOR TO ROUGH-IN.

26-330 PROVIDE POWER AND DATA OUTLETS FOR VIDEO VISITATION STATIONS. OUTLETS ARE TO BE CONCEALED BEHIND VIDEO VISITATION STATION. PROVIDE 1" C. WITH DATA CABLES BACK TO IDF. COORDINATE WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

26-332 LOCATE OUTLETS FOR KIOSK POWER AND DATA.

26-333 TV LOCATION. PROVIDE RECEPTACLE, DATA AND AV OUTLETS. MOUNTING HEIGHT TO CENTER, AS INDICATED ON PLANS. COORDINATE EXACT LOCATION.

26-334 LAPTOP INPUT LOCATION.

26-335 TV LOCATION. PROVIDE RECEPTACLE, DATA AND COAXIAL CABLE OUTLETS. MOUNTING HEIGHT TO CENTER, AS INDICATED ON PLANS. COORDINATE EXACT LOCATION.

26-336 TV LOCATION. PROVIDE RECEPTACLE, DATA, COAXIAL CABLE AND AV OUTLETS. MOUNTING HEIGHT TO CENTER, AS INDICATED ON PLANS. COORDINATE EXACT LOCATION.

26-341 PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING FOR MECHO SHADE SWITCH. PROVIDE 3/4" C. W/ CABLING (PER MANUFACTURER'S RECOMMENDATIONS) TO MECHO SHADE ((1) C. AND CABLING PER SHADE).

26-342 MECHO SHADE. HOMERUN 3/4" C. W/ DC POWER AND COMMUNICATION CABLING (PER MANUFACTURER'S RECOMMENDATIONS) TO "MSPP". COORDINATE EXACT LOCATIONS PRIOR TO ROUGH-IN.

26-343 PROVIDE DISCONNECT SWITCH, INSTALL AND CONNECT SEWAGE GRINDER CONTROL PANEL, FURNISHED BY DIVISION 22 (460V-3PH).

26-344 SEWAGE GRINDER CONTROL PANEL - FURNISHED BY DIVISION 22, INSTALLED BY DIVISION 26 (460V-3PH).

26-345 INSTALL SEWAGE GRINDER ALARM PANEL, FURNISHED BY DIVISION 22, AND CONNECT AS REQUIRED.

26-346 PROVIDE 1" CONDUIT WITH COMMUNICATION WIRING TO REMOTE GRINDER ANNUNCIATOR IN CENTRAL CONTROL #223.

26-347 120V POWER CONNECTION FOR CARBON MONOXIDE DETECTOR(S). COORDINATE QUANITY AND LOCATIONS WITH FIRE ALARM INSTALLER.

27-300 INSTALL (2) CAT6A CABLE PER WAP LOCATION. (TYPICAL IN ALL WAPS)

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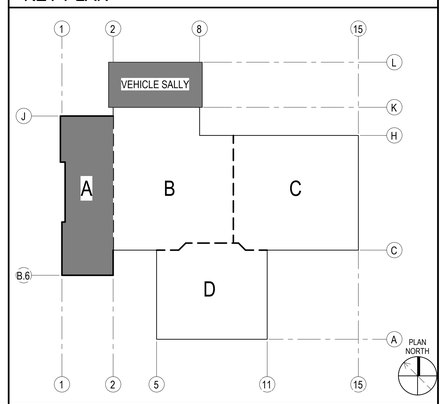
- WALL GUARD, SEE DETAIL

KEY PLAN



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SEAL

REGISTERED PROFESSIONAL ENGINEER CHRISTIAN PADURARU 19533 EXP. 6-30-25 ELECTRICAL STATE OF CALIFORNIA

PROJECT

MONO COUNTY NEW JAIL

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TITLE

POWER & TECHNOLOGY PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SHEET

EP111A

V1

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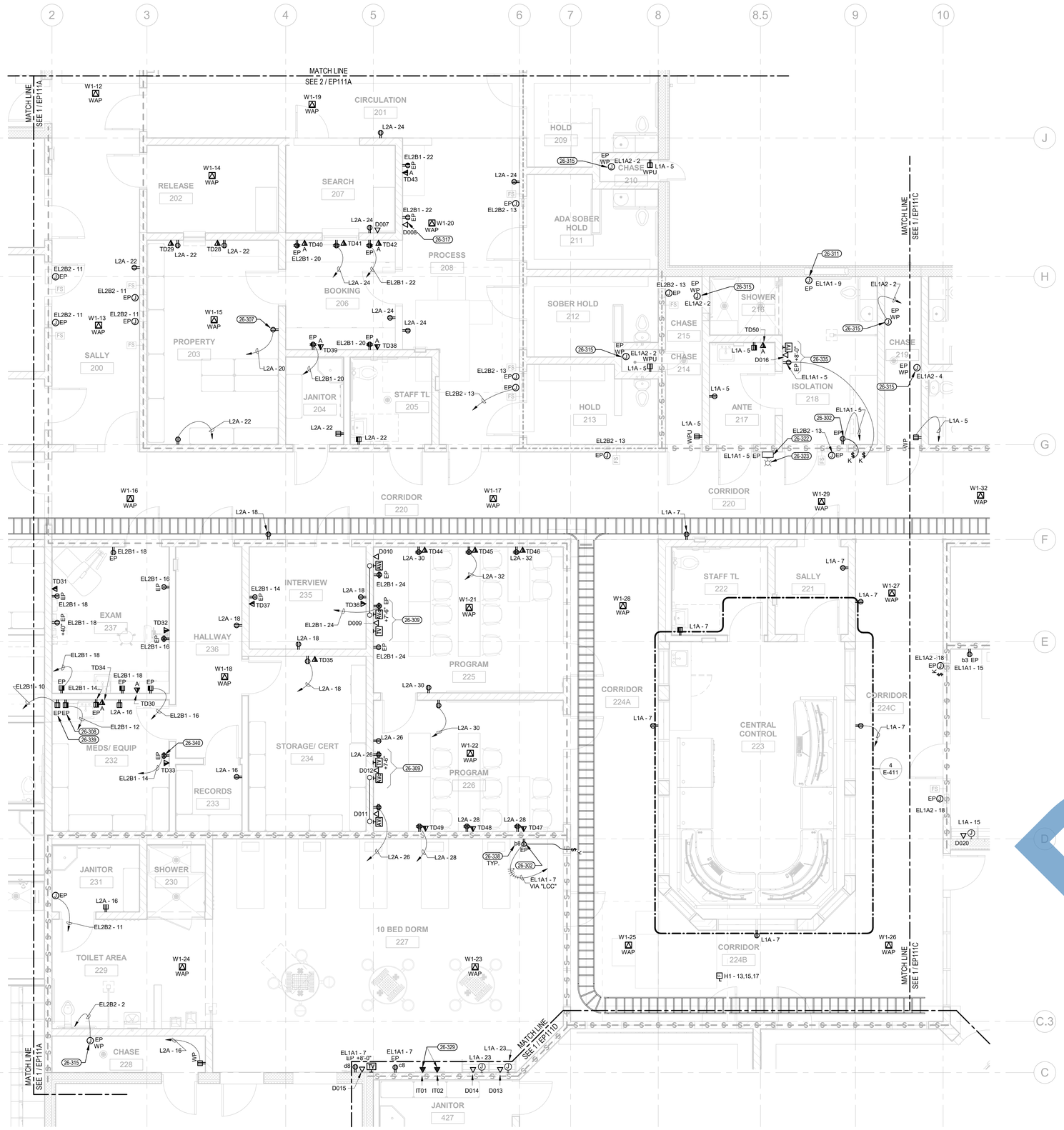

1 POWER & TECHNOLOGY PLAN - LEVEL 1 - ENLARGED - AREA 'B'

SCALE: 1/4" = 1'-0"

KEY NOTES

(25-XXX)

26-302 RECEPTACLE FOR CPAP (GFCI CIRCUIT).
26-307 VACUUM SEALER. (TBD).
26-308 REFRIGERATOR ON COUNTER.
26-309 TV OUTLETS @ +8'-0".
26-311 OPERABLE WINDOW. INTERFACE WITH ALL REQUIRED CONTROLS.
26-315 PROVIDE OUTLET AND CONNECT TO 24V TRANSFORMER FOR WATER MANAGEMENT CONTROLLER. COORDINATE EXACT QUANTITY AND LOCATIONS WITH DIVISION 22 CONTRACTOR AT JOBSITE.
26-317 PROVIDE RECEPTACLE AND DATA OUTLET FOR LIVE SCAN.
26-322 ROOM PRESSURE MONITOR: 120V, 5W. COORDINATE EXACT LOCATION WITH MECHANICAL.
26-323 PROVIDE 24VDC INDICATOR LIGHT: STROBE BEACON MICROLAMP BY SIRENA OR EQUAL. WIRE LIGHT TO ROOM PRESURE MONITOR SPDT RELAY.
26-329 PROVIDE OUTLET FOR INMATE TELEPHONE WITH DATA CABLE IN CONDUIT BACK TO ROOM LOW VOLT #326. COORDINATE WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
26-335 TV LOCATION. PROVIDE RECEPTACLE, DATA AND COAXIAL CABLE OUTLETS. MOUNTING HEIGHT TO CENTER, AS INDICATED ON PLANS. COORDINATE EXACT LOCATION.
26-338 INDICATES "LCC" RELAY DESIGNATION.
26-339 FREEZER. BELOW COUNTER.
26-340 COMPUTER CART.

GENERAL NOTES

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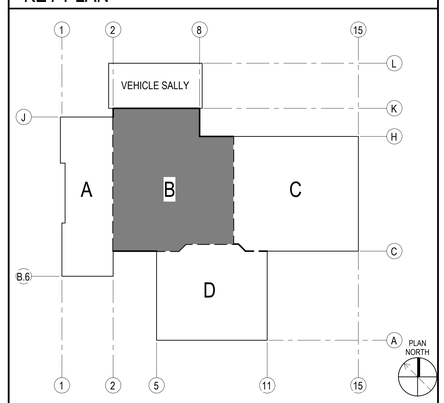
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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POWER & TECHNOLOGY PLAN - LEVEL 1 - ENLARGED - AREA 'B'

SHEET
EP111B

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ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
1	LOT	SHELVING										
2	1	WALK-IN COOLER/FREEZER	20A CKT			18.7 AMP			FA			★
3	LOT	SHELVING										
4	3	HAND SINK/SIDE SPLASH										
5	1	CAN OPENER										
6	1	FOOD PROCESSOR	7 AMP						46"		★	
7	1	BLENDER	11.5 AMP						46"		★	
8	1	WORK TABLE WITH SINKS	4 AMP						46"		★	
9		NOT USED										
10		NOT USED										
11	1	AUTOMATIC SLICER	5.6 AMP						46"		★	
12	1	30 QUART MIXER	9.5 AMP						46"	★	★	
13	LOT	TRAY DELIVERY CART										
14	1	ICE MACHINE/BIN	4.7 AMP						46"	★	★	
15	1	JUICE DISPENSER	6 AMP						46"		★	
16	1	CONVEYOR TOASTER	14.9 AMP						46"		★	
17	1	COFFEE BREWER					22.5 AMP		46"		★	
18	1	WORK TABLE WITH SINK	4 AMP						24"		★	
19		NOT USED										
20		NOT USED										
21		NOT USED										
22	1	FRENCH FRY CUTTER										
23	1	FIRE SUPPRESSION SYSTEM	20A CKT						FA			★
24	1	STAINLESS STEEL WALL FLASHING										
25	1	FRYER / FILTER					48 AMP		30"		★	★
26	1	EXHAUST HOOD (TYPE-I)	8 AMP						FA			★
27	1	GRIDDLE/OVEN	4 AMP						30"		★	
28	1	BROILER										
29		NOT USED										
30		NOT USED										
31	1	FILL FAUCET										
32	1	OPEN BURNER RANGE/OVEN	4 AMP						30"		★	

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
33	1	2-DECK CONVECTION OVEN	4 AMP						48"		★	
34	1	REACH-IN REFRIGERATOR	3.8 AMP						84"	★	★	
35	1	TRAY DISH UP COUNTER	4 AMP						46"		★	
36	1	DROP IN HOT/COLD WELLS		14.5 AMP					24"		★	★
37		NOT USED										
38		NOT USED										
39		NOT USED										
40	LOT	TRASH CONTAINER										
41	1	WALL SHELF / UTENSIL RACK										
42	1	POT SINK										
43	1	SOILED DISHTABLE										
44	1	PRE-RINSE										
45	1	CONDENSATE HOOD										
46	1	DISHMACHINE (HIGH CHAMBER)						51.8 AMP	72"			★
47	1	CLEAN DISHTABLE										
48	1	DISH RACK SHELF										
49		NOT USED										
50		NOT USED										
51	2	MOBILE DRY RACKS										
52	1	MOBILE POT RACK/TRAY RACK										
53		NOT USED										
54		NOT USED										
55	1	REFRIGERATION SYSTEM						28.6 AMP	ROOF			★

ABBREVIATIONS:

C&P	CORD AND PLUG	STUB	UTILITY UP FROM FLOOR
RECP	RECEPTACLE	DC	DROP CORD WITH RECEPTACLE
HW	HARDWIRE		
HT	HEIGHT		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:
CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING
CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

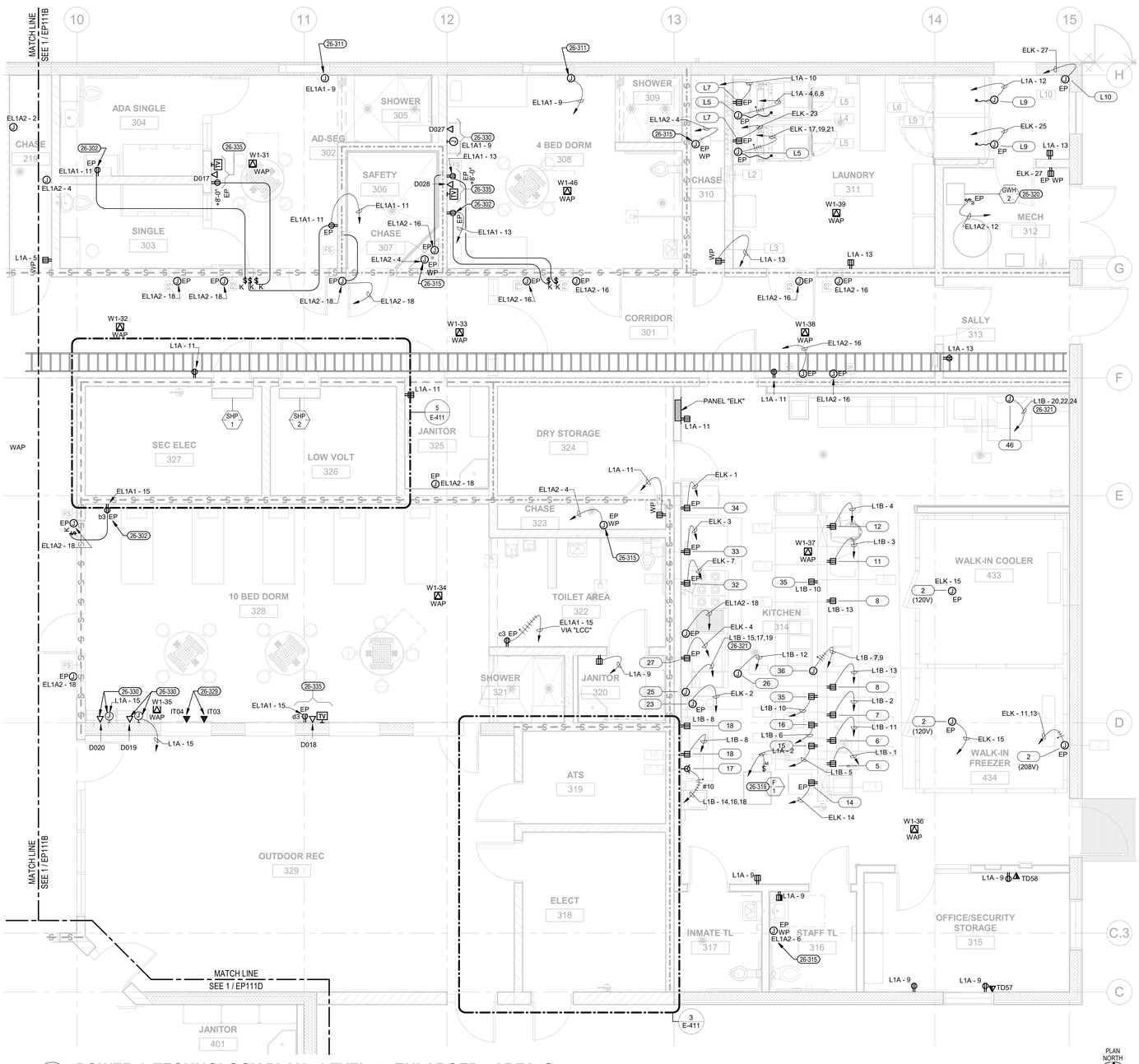
LAUNDRY ELECTRICAL ROUGH-IN SCHEDULE

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
L1	LOT	LAUNDRY CARTS										
L2	1	RECESSED EYE WASH										
L3	1	2-COMP'T SOAK SINK										
L4	1	FLOOR TROUGH										
L5	2	45 LB WASHER/EXTRACTOR					15 AMP		FA			★
L6	1	MOBILE FOLDING TABLE										
L7	2	DETERGENT PUMP	9.4 AMP						48"	★	★	
L8	4	SHELVING										
L9	2	75 LB. DRYER	13 AMP						FA			★
L10	1	LINT COLLECTOR	3 AMP						48"			★
L11		NOT USED										
L12		NOT USED										
L13		NOT USED										
L14		NOT USED										
L15		NOT USED										

ABBREVIATIONS:

CONN	CONNECTION TYPE BY DIVISION 16	FA	FROM ABOVE
C&P	CORD AND PLUG	HT	HEIGHT
RECP	RECEPTACLE		
HW	HARDWIRE		

SCHEDULE NOTES:
CONNECTED LOAD = EACH CONNECTION AS SHOWN ON DRAWING
CONNECTION TYPES BY DIVISION 26
DRAWING NOTES:
A ELECTRICAL DIVISION TO INTERCONNECT LINT COLLECTOR COMPONENTS POWER AND CONTROL WIRING.



1 POWER & TECHNOLOGY PLAN - LEVEL 1 - ENLARGED - AREA 'C'
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. ALL MATERIALS AND METHODS OF INSTALLATION SHALL CONFORM TO APPLICABLE CODES AND ORDINANCES.
2. ALL WIRE SHALL BE COPPER ONLY.
3. FURNISH AND INSTALL ALL MOTOR STARTERS, RELAYS AND CONTACTORS FOR REFRIGERATION EQUIPMENT. COORDINATE WITH REFRIGERATION EQUIPMENT INSTALLER AT JOBSITE.
4. VERIFY LOCATIONS OF ELECTRICAL STUB-UPS FOR REFRIGERATED CASES, TABLES AND OUTLETS WITH REFRIGERATION EQUIPMENT INSTALLER AT JOBSITE PRIOR TO FLOOR POUR.
5. SURFACE MOUNT ALL CONDUIT IN PREFAB REFRIGERATED WALK-IN BOXES AND SEAL ALL PERFORATIONS WITH PERMAGUM OR APPROVED SEALANT.
6. CONNECT ALL BLOWER COIL FAN MOTORS LOCATED IN WALK-IN BOXES WITH WP FLEX, CONDUIT AND PROVIDE DISCONNECT SWITCH.
7. FURNISH AND INSTALL CONDUIT, WIRE, OUTLETS, ETC. FOR REFRIGERATED WALK-IN BOXES AND CONNECT COMPLETE AND READY TO OPERATE AS DIRECTED BY THE REFRIGERATION EQUIPMENT INSTALLER.
8. REVIEW THE REFRIGERATION PLANS AND DIAGRAMS PRIOR TO STARTING WORK AND CONTACT REFRIGERATION EQUIPMENT INSTALLER IF CLARIFICATION IS NEEDED. UPON COMPLETION OF WIRING, PERFORM A SATISFACTORY OPERATIONAL CONTROL SEQUENCE CHECK WITH THE REFRIGERATION EQUIPMENT INSTALLER BY RINGING OUT ALL CIRCUITS AND CORRECTING ANY WIRING ERRORS.
9. MOUNT AND/OR CONNECT ALL THERMOSTATS, SOLENOIDS AND OTHER CONTROLS FURNISHED BY THE REFRIGERATION AND/OR AIR CONDITIONING CONTRACTORS AND CONNECT ALL MOTORS, CONTROLS AND OTHER COMPONENTS FURNISHED BY THESE CONTRACTORS.
10. VERIFY LOCATIONS OF ALL THERMOSTATS, SOLENOIDS AND OTHER ELECTRICAL CONTROLS WITH THE REFRIGERATION AND/OR AIR CONDITIONING CONTRACTORS PRIOR TO ROUGH-IN.
11. FURNISH AND INSTALL ALL CONDUIT, WIRE, OUTLETS, ETC. FOR ALL KITCHEN EQUIPMENT AS REQUIRED. THIS EQUIPMENT IS FURNISHED AND INSTALLED BY OTHERS, CONNECTED BY THE ELECTRICAL CONTRACTOR.
12. ALL CONDUIT FOR REFRIGERATED CASES INSTALLED BELOW BUILDING FLOOR SLAB SHALL BE MINIMUM 1" DIAMETER.
13. NO CONDUIT SHALL RUB OR COME IN CONTACT WITH REFRIGERATION LINES.
14. SEE REFRIGERATION DRAWINGS FOR EQUIPMENT SCHEDULES AND CONTROL WIRING. CONTROL WIRING PROVIDED BY ELECTRICAL CONTRACTOR.
15. ALL RECEPTACLES INSTALLED IN KITCHEN AND WASH DOWN AREAS SHALL BE GFCI PROTECTED AND HAVE WEATHERPROOF WHILE IN USE COVERS.
16. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HOOD FIRE SUPPRESSION SYSTEM CONTROL WIRING. PROVIDE CONDUIT, WIRE, RELAYS, CONTACTORS, ETC. AS REQUIRED TO MAKE ALL CONNECTIONS AND INTERLOCKS IN CONFORMANCE WITH STATE FIRE MARSHAL REQUIREMENTS. PROVIDE FOR DE-ENERGIZING ALL ELECTRICAL OUTLETS AND GAS SOLENOID VALVES UNDER HOODS AS REQUIRED.
17. PROVIDE CONDUIT FOR ALL CASE TEMPERATURE PROBES (NOT SHOWN). SEE REFRIGERATION DRAWINGS FOR QUANTITIES AND LOCATIONS. COORDINATE WITH REFRIGERATION EQUIPMENT INSTALLER AT JOBSITE.
18. REFER TO REFRIGERATION DRAWINGS FOR REFRIGERATION EQUIPMENT WIRING AND DISCONNECT SWITCH REQUIREMENTS.
19. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONTROL WIRES FROM EACH REFRIGERATED WALK-IN BOX TO COMPRESSOR RACK AS DIRECTED BY THE REFRIGERATION EQUIPMENT INSTALLER.
20. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR DOOR SWITCHES FOR NEW WALK-IN FREEZERS AND WIRE THROUGH FAN AND SOLENOID CIRCUITS. COORDINATE WITH REFRIGERATION EQUIPMENT INSTALLER AT JOBSITE.
21. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V CIRCUITS FOR HEAT TRACE TAPE FOR NEW WALK-IN FREEZERS AND MEAT COOLER DRAINS.
22. THE ELECTRICAL CONTRACTOR SHALL PROVIDE WIRING FOR WALK-IN REFRIGERANT MONITORING PANEL AND DEVICES AS DIRECTED BY THE REFRIGERATION EQUIPMENT INSTALLER.
23. ALL CONDUITS PASSING INTO WALK-IN FREEZERS AND COOLERS SHALL BE SEALED IN ACCORDANCE WITH THE REQUIREMENTS OF CEC 300.7(A).
24. CONTRACTOR SHALL FIELD VERIFY EXACT NEMA TYPE RECEPTACLE REQUIRED FOR ALL KITCHEN EQUIPMENT WITH THE EQUIPMENT INSTALLER AT JOBSITE AND PROVIDE THE APPROPRIATE RECEPTACLE TYPE.

KEY NOTES

(26-XXX)

26-302 RECEPTACLE FOR CPAP (GFCI CIRCUIT).
26-311 OPERABLE WINDOW. INTERFACE WITH ALL REQUIRED CONTROLS.
26-315 PROVIDE OUTLET AND CONNECT TO 24V TRANSFORMER FOR WATER MANAGEMENT CONTROLLER. COORDINATE EXACT QUANTITY AND LOCATIONS WITH DIVISION 22 CONTRACTOR AT JOBSITE.
26-319 115V/1Ø, FLA: 1.9A.
26-320 120V/1Ø, MAX 9A.
26-321 1"C WITH 3 #6 CU & 1 #8 CU GND.
26-329 PROVIDE OUTLET FOR INMATE TELEPHONE WITH DATA CABLE IN CONDUIT BACK TO ROOM LOW VOLT #326. COORDINATE WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
26-330 PROVIDE POWER AND DATA OUTLETS FOR VIDEO VISITATION STATIONS. OUTLETS ARE TO BE CONCEALED BEHIND VIDEO VISITATION STATION. PROVIDE 1" C. WITH DATA CABLES BACK TO IDF. COORDINATE WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
26-335 TV LOCATION. PROVIDE RECEPTACLE, DATA AND COAXIAL CABLE OUTLETS. MOUNTING HEIGHT TO CENTER, AS INDICATED ON PLANS. COORDINATE EXACT LOCATION.

GENERAL NOTES, CONTINUED

25 ELECTRICAL CONTRACTOR TO PROVIDE:

a. ALL ELECTRICAL WORK DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FOOD SERVICE EQUIPMENT SECTION.

b. ROUGH-IN AND FINAL CONNECTIONS TO ALL FOOD SERVICE EQUIPMENT.

c. ALL JUNCTION BOXES, ELECTRICAL OUTLETS, COVERPLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

d. VAPOR PROOF COMPONENTS FOR DISHWASHING ROOMS.

e. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOOD SERVICE EQUIPMENT BELOW EXHAUST HOODS. PROVIDE ALL WIRING AND INTERCONNECTION WITH ANSUL/EXTINGUISHING SYSTEM ACTIVATION FOR ALL SHUNT TRIP CIRCUIT BREAKERS PER EXTINGUISHING SYSTEM MANUFACTURER'S RECOMMENDATIONS REGARDING MAKE-UP AIR AND EXHAUST AIR FANS AS WELL AS APPLIANCES BENEATH THE HOODS.

26 PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALL, AND CEILINGS. "THROUGH" PENETRATIONS SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED (CBC 714.4.2). SEE CORRESSPONDING DETAILS(S) FOR EACH OF THE FOLOWING TYPES OF PENETRATIONS:
a. CMU WALL: 2/E-513, 3/E-514, 5/E-514.
b. METAL STUD WALL: 1/E-513, 2/E-514, 4/E-514.

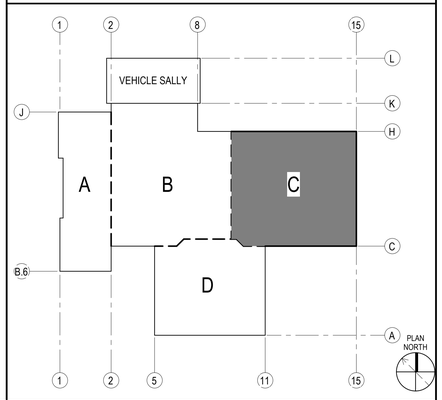
27 PROVIDE FIRE STOPPING AT ALL MEMBRANE PENETRATIONS (I.E. ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS) WITH A F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED. SEE DETAIL 1/E-514.

28 EC SHALL PROVIDE ALL REQUIRED CONDUITS FOR THE ELECTRONIC SECURITY SYSTEM EQUIPMENT. SEE ELECTRONIC SECURITY PLANS FOR LOCATIONS, SPECIFICATIONS, QUANTITIES, AND SIZES.

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
POWER & TECHNOLOGY PLAN - LEVEL 1 - ENLARGED - AREA 'C'

SHEET
EP111C

V1

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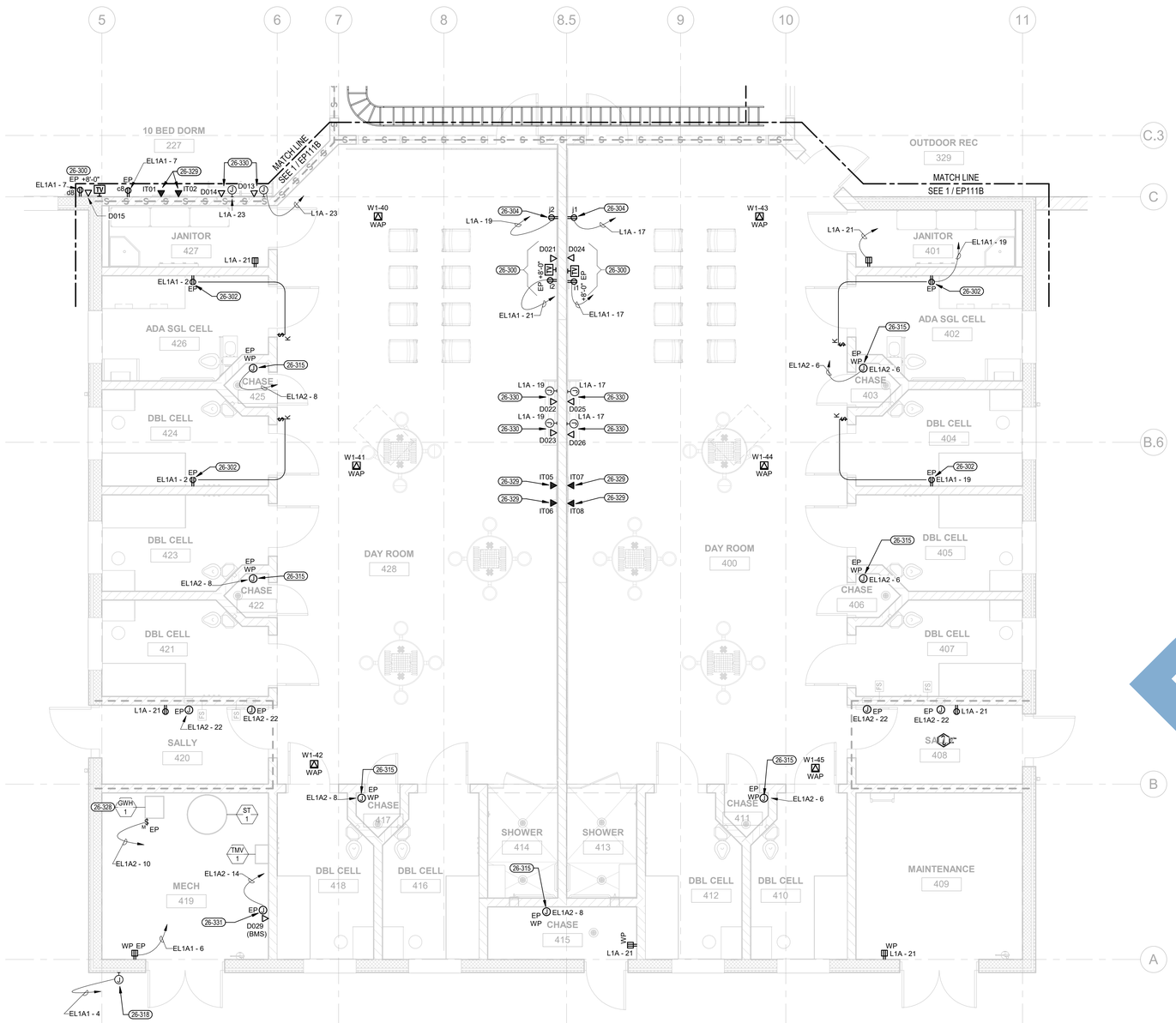

1 **POWER PLAN - LEVEL 1 - Area D**

SCALE: 1/4" = 1'-0"

PLAN NORTH

KEY NOTES

(25-XXX)

26-300 TV LOCATION. PROVIDE RECEPTACLE, DATA AND TV OUTLETS @+8-0". COORDINATE EXACT LOCATION WITH ARCHITECT.

26-302 RECEPTACLE FOR CPAP (GFCI CIRCUIT).

26-304 RECEPTACLE CONTROLLED FROM CENTRAL CONTROL.

26-315 PROVIDE OUTLET AND CONNECT TO 24V TRANSFORMER FOR WATER MANAGEMENT CONTROLLER. COORDINATE EXACT QUANTITY AND LOCATIONS WITH DIVISION 22 CONTRACTOR AT JOBSITE.

26-318 POWER CONNECTION TO FIRE SPRINKLER BELL. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIRE SPRINKLER CONTRACTOR.

26-328 120V/1Ø, MAX 9.5A.

26-329 PROVIDE OUTLET FOR INMATE TELEPHONE WITH DATA CABLE IN CONDUIT BACK TO ROOM LOW VOLT #326. COORDINATE WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

26-330 PROVIDE POWER AND DATA OUTLETS FOR VIDEO VISITATION STATIONS. OUTLETS ARE TO BE CONCEALED BEHIND VIDEO VISITATION STATION. PROVIDE 1" C. WITH DATA CABLES BACK TO IDF. COORDINATE WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

26-331 PROVIDE POWER CONNECTION AND DATA OUTLET FOR BMS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL.

GENERAL NOTES

1. PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALL, AND CEILINGS. "THROUGH" PENETRATIONS SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED (CBC 714.4.2). SEE CORRESPONDING DETAILS(S) FOR EACH OF THE FOLOWING TYPES OF PENETRATIONS:
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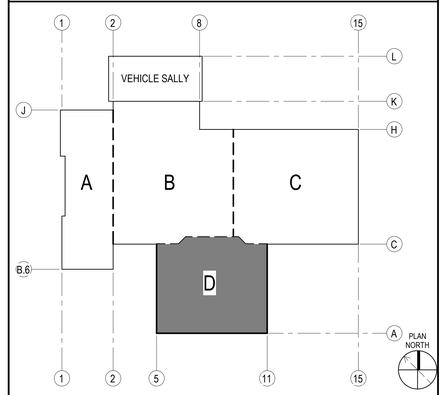
2. PROVIDE FIRE STOPPING AT ALL MEMBRANE PENETRATIONS (I.E. ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS) WITH A F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED. SEE DETAIL 1/E-514.
3. EC SHALL PROVIDE ALL REQUIRED CONDUITS FOR THE ELECTRONIC SECURITY SYSTEM EQUIPMENT. SEE ELECTRONIC SECURITY PLANS FOR LOCATIONS, SPECIFICATIONS, QUANTITIES, AND SIZES.

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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MANAGEMENT

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TITLE

POWER & TECHNOLOGY PLAN - LEVEL 1 - ENLARGED - AREA 'D'

SHEET

EP111D

V1

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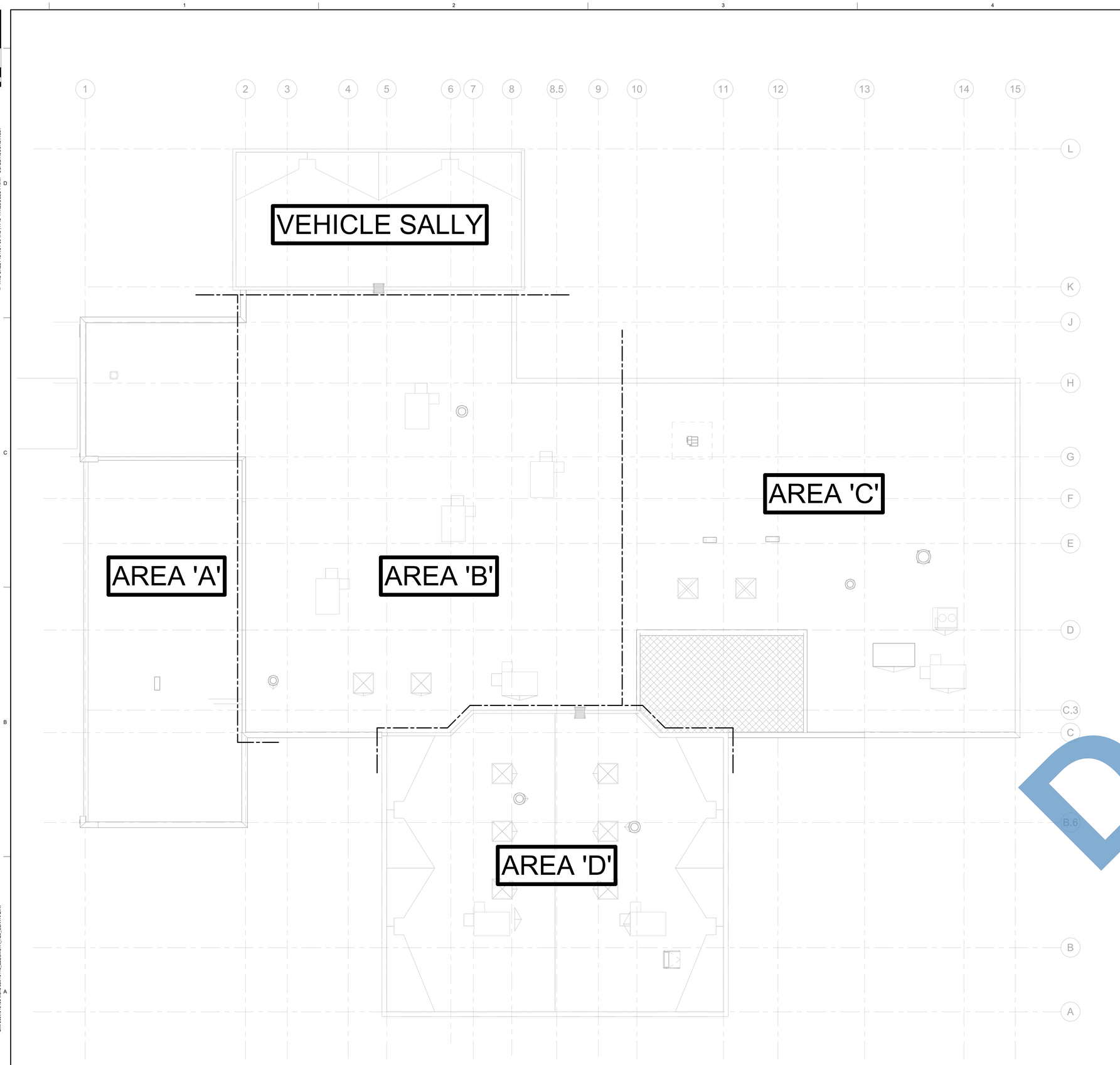
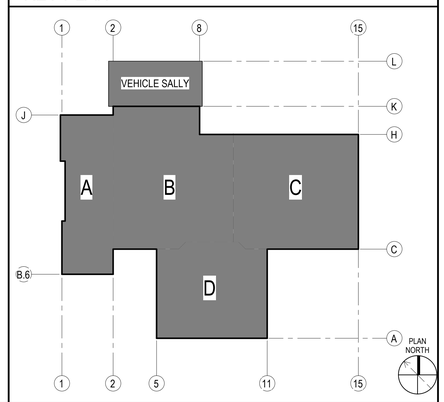


1 **POWER PLAN - ROOF - OVERALL**
SCALE: 1/8" = 1'-0"

Draft

KEY PLAN



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POWER PLAN - ROOF - OVERALL

SHEET
EP131

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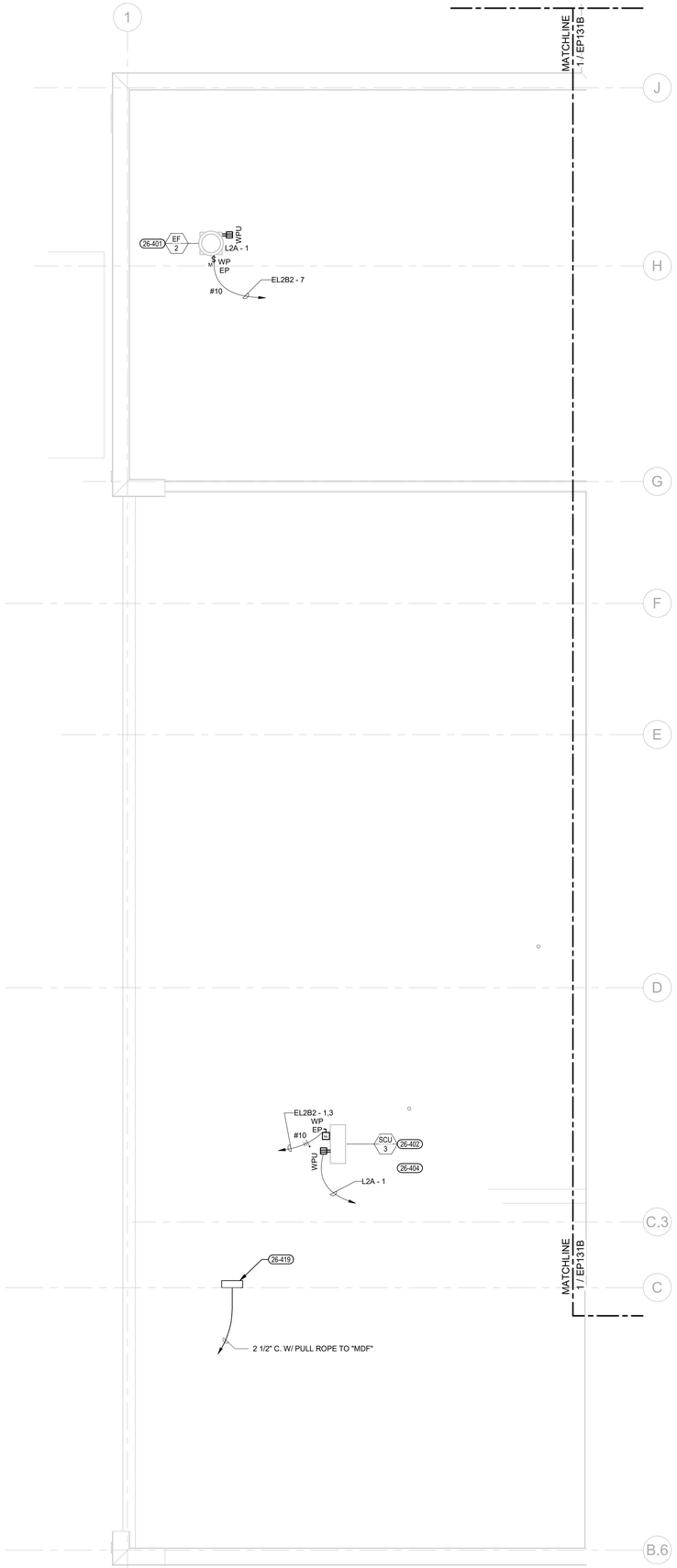
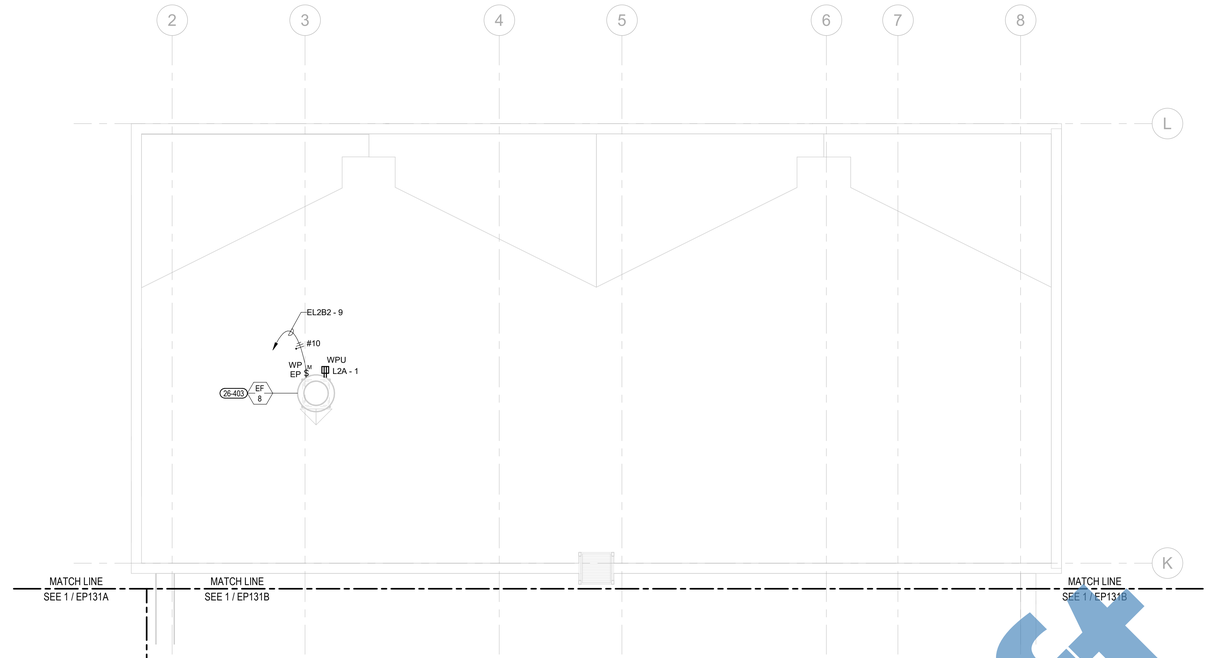


1 POWER PLAN - ROOF - AREA 'A'

SCALE: 1/4" = 1'-0"



2 POWER PLAN - ROOF - VEHICLE SALLY

SCALE: 1/4" = 1'-0"

KEY NOTES

(25-XXX)

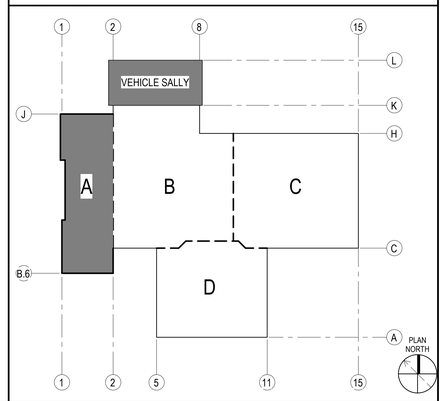
26-401 115V/1Ø, 1/6 HP.
26-402 208V/1Ø, MCA/MOCP: 20A/30A.
26-403 115V/1Ø, 3/4 HP.
26-404 #10 CONDUCTORS THE ENTIRE LENGTH OF THE RUN.
26-419 PROVIDE 18" X 18" X 6" TYPE 3R ENCLOSURE FOR DIRECT TV SATELLITE DISH. COORDINATE FINAL LOCATION WITH VENDOR.

GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS FOR EXACT HVAC EQUIPMENT LOCATIONS AND SPECIFICATIONS. VERIFY EQUIPMENT WIRE SIZE, CONDUIT SIZES, CIRCUIT BREAKER AND DISCONNECT SIZES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ROOF JACKS FOR POWER AND 3/4" CONTROL CONDUITS TO ROOF MOUNTED HVAC EQUIPMENT. PROVIDE CONTROL CONDUIT FROM EACH UNIT TO THERMOSTAT LOCATIONS. SEE MECHANICAL DRAWINGS FOR THERMOSTAT LOCATIONS.
3. ALL CONNECTIONS TO HVAC EQUIPMENT SHALL BE MADE WITH COPPER CONDUCTORS ONLY. SIZE CONDUCTORS PER UNIT NAMEPLATE SPECIFICATIONS. VERIFY PRIOR TO INSTALLATION OF CONDUCTORS.
4. ALL DISCONNECT SWITCHES SHALL BE FUSIBLE NEMA 3R, SIZE AS REQUIRED. ALL HVAC UNITS SHALL BE FUSED PER EQUIPMENT NAMEPLATE SPECIFICATIONS. ELECTRICAL CONTRACTOR SHALL VERIFY DISCONNECT AND FUSE SIZING WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING MATERIALS.
5. ALL FUSES FOR THIS PROJECT SHALL BE BUSSMAN CLASS RK5 DUAL ELEMENT CURRENT LIMITING WITH AMPERAGES AS INDICATED OR REQUIRED.
6. NO CONDUIT SHALL BE RUN ON ROOF. APPROPRIATE ROOF JACKS SHALL BE PROVIDED FOR ALL ROOF PENETRATIONS. COORDINATE WITH MECHANICAL CONTRACTOR AT JOBSITE. ENTER UNITS WITHIN ROOF CURBS WHERE POSSIBLE. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY LOCATING ROOF PENETRATIONS.
7. LOCATE WEATHER RESISTANT ROOF RECEPTACLES SO THAT NO MECHANICAL UNIT IS FURTHER THAN 20' FROM A RECEPTACLE. PROVIDE ALL NECESSARY HARDWARE FOR RECEPTACLE OUTLET SUPPORT.
8. REFER TO MECHANICAL DRAWINGS FOR CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND ROOF PENETRATIONS FOR CONTROL WIRING AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR AT JOBSITE.
9. FIRE SEAL ALL FIRE ASSEMBLY PENETRATIONS FOR CONDUITS WITH AN APPROVED FIRE SEALANT AFTER CONDUIT INSTALLATION. FIRE SEAL SHALL PROVIDE EQUAL FIRE RATING AS ASSEMBLY PENETRATED. ALL FIRE ASSEMBLY PENETRATIONS SHALL MEET BOTH THE REQUIRED F&T RATINGS OF THE FIRE RATED ASSEMBLY PENETRATED.
10. SEE DETAIL 4/E-512 FOR CONDUIT PENETRATION THROUGH ROOF.

PLAN NORTH

KEY PLAN



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TITLE
POWER PLAN - ROOF - AREA 'A'

SHEET
EP131A

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1 **POWER PLAN - ROOF - AREA 'B'**

SCALE: 1/4" = 1'-0"

KEY NOTES

(25-XXX)

26-405 115V/1Ø, 1/4 HP.

26-406 NORMAL POWER: AC CIRCUIT #2 - 460V/3Ø, MCA/MOCP: 14.7A/20A. EMERGENCY POWER: AC CIRCUIT #1 - 460V/3Ø, MCA/MOCP: 4.5A/15A AND POWER EXHAUST - 460/3Ø, FLA; 2.2A.

26-407 NORMAL POWER: AC CIRCUIT #2 - 460V/3Ø, MCA/MOCP: 22A/25A. EMERGENCY POWER: AC CIRCUIT #1 - 460V/3Ø, MCA/MOCP: 6.1A/15A AND POWER EXHAUST - 460/3Ø, FLA; 2.2A.

26-408 NORMAL POWER: AC CIRCUIT #2 - 460V/3Ø, MCA/MOCP: 19.8A/25A. EMERGENCY POWER: AC CIRCUIT #1 - 460V/3Ø, MCA/MOCP: 4.5A/15A AND POWER EXHAUST - 460/3Ø, FLA; 2.2A.

26-409 NORMAL POWER: AC CIRCUIT #2 - 460V/3Ø, MCA/MOCP: 11.4A/15A. EMERGENCY POWER: AC CIRCUIT #1 - 460V/3Ø, MCA/MOCP: 3.5A/15A AND POWER EXHAUST - 460/3Ø, FLA; 2.8A.

26-418 NORMAL POWER: AC CIRCUIT #2 - 460V/3Ø, MCA/MOCP: 13.9A/20A. EMERGENCY POWER: AC CIRCUIT #1 - 460V/3Ø, MCA/MOCP: 3.5A/15A AND POWER EXHAUST - 460/3Ø, FLA; 2.2A.

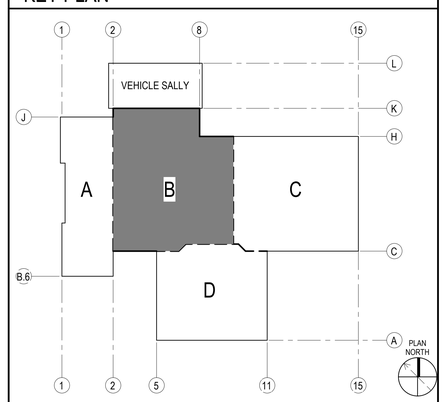
26-420 PROVIDE 2"C AND STUB IN AREA DESIGNATED FOR FUTURE PV, IN ELECTRICAL #122.

26-421 PROVIDE 20" X 20" X 6" WEATHERPROOF BOX FOR FUTURE PV AND LABLE "PHOTOVOLTAIC".

GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS FOR EXACT HVAC EQUIPMENT LOCATIONS AND SPECIFICATIONS. VERIFY EQUIPMENT WIRE SIZE, CONDUIT SIZES, CIRCUIT BREAKER AND DISCONNECT SIZES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ROOF JACKS FOR POWER AND 3/4" CONTROL CONDUITS TO ROOF MOUNTED HVAC EQUIPMENT. PROVIDE CONTROL CONDUIT FROM EACH UNIT TO THERMOSTAT LOCATIONS. SEE MECHANICAL DRAWINGS FOR THERMOSTAT LOCATIONS.
3. ALL CONNECTIONS TO HVAC EQUIPMENT SHALL BE MADE WITH COPPER CONDUCTORS ONLY. SIZE CONDUCTORS PER UNIT NAMEPLATE SPECIFICATIONS. VERIFY PRIOR TO INSTALLATION OF CONDUCTORS.
4. ALL DISCONNECT SWITCHES SHALL BE FUSIBLE NEMA 3R, SIZE AS REQUIRED. ALL HVAC UNITS SHALL BE FUSED PER EQUIPMENT NAMEPLATE SPECIFICATIONS. ELECTRICAL CONTRACTOR SHALL VERIFY DISCONNECT AND FUSE SIZING WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING MATERIALS.
5. ALL FUSES FOR THIS PROJECT SHALL BE BUSSMAN CLASS RK5 DUAL ELEMENT CURRENT LIMITING WITH AMPERAGES AS INDICATED OR REQUIRED.
6. NO CONDUIT SHALL BE RUN ON ROOF. APPROPRIATE ROOF JACKS SHALL BE PROVIDED FOR ALL ROOF PENETRATIONS. COORDINATE WITH MECHANICAL CONTRACTOR AT JOBSITE. ENTER UNITS WITHIN ROOF CURBS WHERE POSSIBLE. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY LOCATING ROOF PENETRATIONS.
7. LOCATE WEATHER RESISTANT ROOF RECEPTACLES SO THAT NO MECHANICAL UNIT IS FURTHER THAN 20' FROM A RECEPTACLE. PROVIDE ALL NECESSARY HARDWARE FOR RECEPTACLE OUTLET SUPPORT.
8. REFER TO MECHANICAL DRAWINGS FOR CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND ROOF PENETRATIONS FOR CONTROL WIRING AS REQUIRED. COORDINATE WITH MECHANICAL CONTRACTOR AT JOBSITE.
9. FIRE SEAL ALL FIRE ASSEMBLY PENETRATIONS FOR CONDUITS WITH AN APPROVED FIRE SEALANT AFTER CONDUIT INSTALLATION. FIRE SEAL SHALL PROVIDE EQUAL FIRE RATING AS ASSEMBLY PENETRATED. ALL FIRE ASSEMBLY PENETRATIONS SHALL MEET BOTH THE REQUIRED F&T RATINGS OF THE FIRE RATED ASSEMBLY PENETRATED.
10. SEE DETAIL 4/E-512 FOR CONDUIT PENETRATION THROUGH ROOF.

KEY PLAN



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EXP. 6-30-25
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STATE OF CALIFORNIA

PROJECT

MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT

MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

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SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

POWER PLAN - ROOF - AREA 'B'

SHEET

EP131B

V1

Draft

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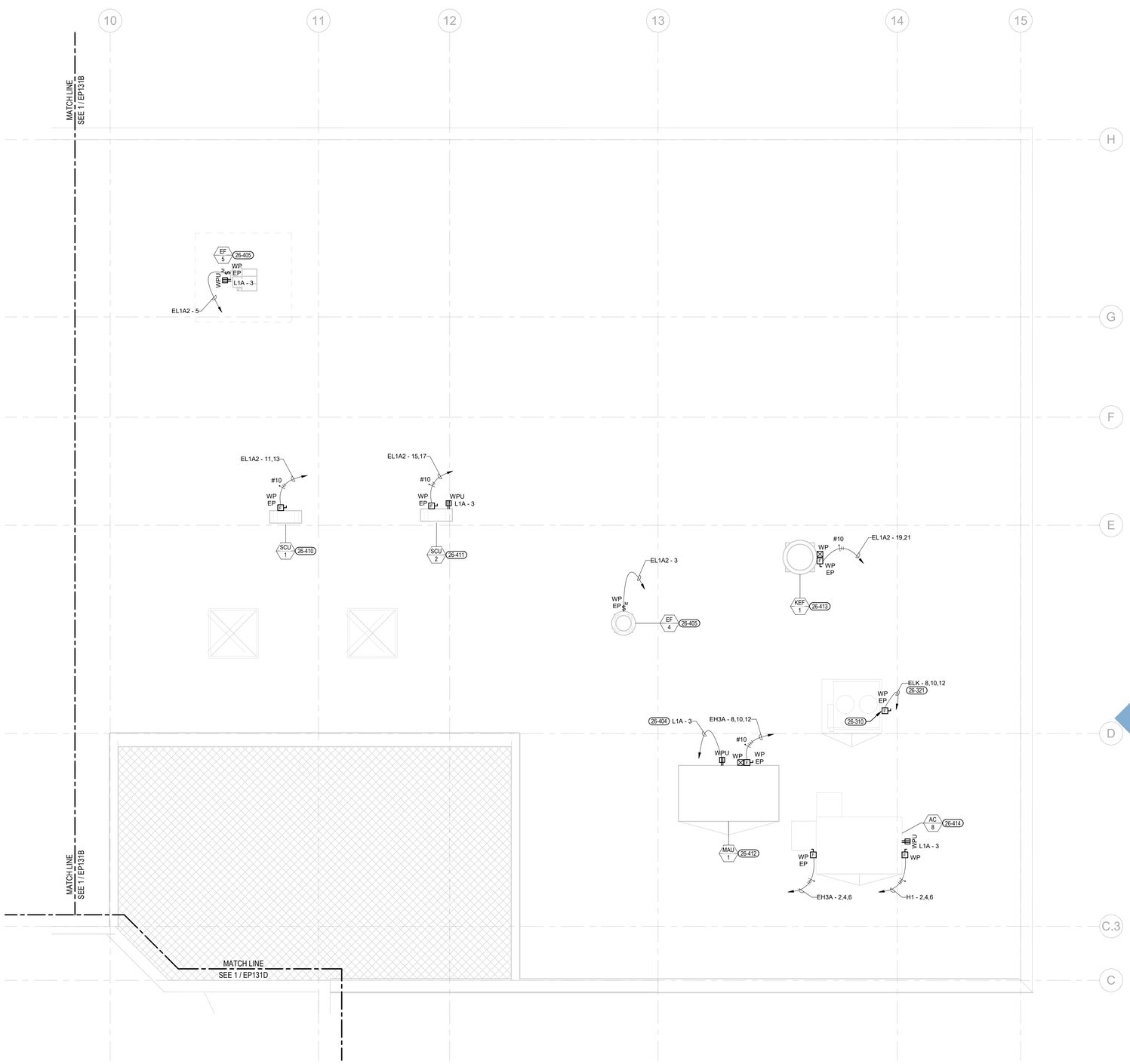

1 **POWER PLAN - ROOF - AREA 'C'**
SCALE: 1/4" = 1'-0"

KEY NOTES

(25-XXX)

26-310 REFRIGERATION SYSTEM ON ROOF. COORDINATE LOCATION WITH FOOD SERVICE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
26-321 1"C WITH 3 #6 CU & 1 #8 CU GND.
26-404 #10 CONDUCTORS THE ENTIRE LENGTH OF THE RUN.
26-405 115V/1Ø, 1/4 HP.
26-410 208V/1Ø, MCA/MOCP: 24A/40A.
26-411 208V/1Ø, MCA/MOCP: 20A/30A.
26-412 460V/3Ø, MCA/MOCP: 13.15A/20A, FLA: 10.52A, 3HP.
26-413 208V/1Ø, 2HP
26-414 NORMAL POWER: AC CIRCUIT #2 - 460V/3Ø, MCA/MOCP: 11.4A/15A. EMERGENCY POWER: AC CIRCUIT #1 - 460V/3Ø, MCA/MOCP: 3.5A/15A AND POWER EXHAUST - 460/3Ø, FLA; 2.8A.

GENERAL NOTES

1. REFER TO MECHANICAL DRAWINGS FOR EXACT HVAC EQUIPMENT LOCATIONS AND SPECIFICATIONS. VERIFY EQUIPMENT WIRE SIZE, CONDUIT SIZES, CIRCUIT BREAKER AND DISCONNECT SIZES WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF ELECTRICAL.
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3. ALL CONNECTIONS TO HVAC EQUIPMENT SHALL BE MADE WITH COPPER CONDUCTORS ONLY. SIZE CONDUCTORS PER UNIT NAMEPLATE SPECIFICATIONS. VERIFY PRIOR TO INSTALLATION OF CONDUCTORS.
4. ALL DISCONNECT SWITCHES SHALL BE FUSIBLE NEMA 3R, SIZE AS REQUIRED. ALL HVAC UNITS SHALL BE FUSED PER EQUIPMENT NAMEPLATE SPECIFICATIONS. ELECTRICAL CONTRACTOR SHALL VERIFY DISCONNECT AND FUSE SIZING WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING MATERIALS.
5. ALL FUSES FOR THIS PROJECT SHALL BE BUSSMAN CLASS RK5 DUAL ELEMENT CURRENT LIMITING WITH AMPERAGES AS INDICATED OR REQUIRED.
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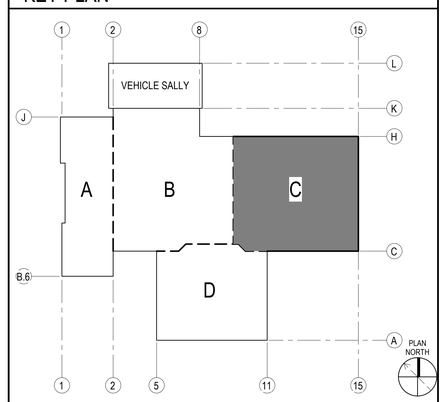
Draft

KEY PLAN



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TITLE
POWER PLAN - ROOF - AREA 'C'

SHEET
EP131C

V1

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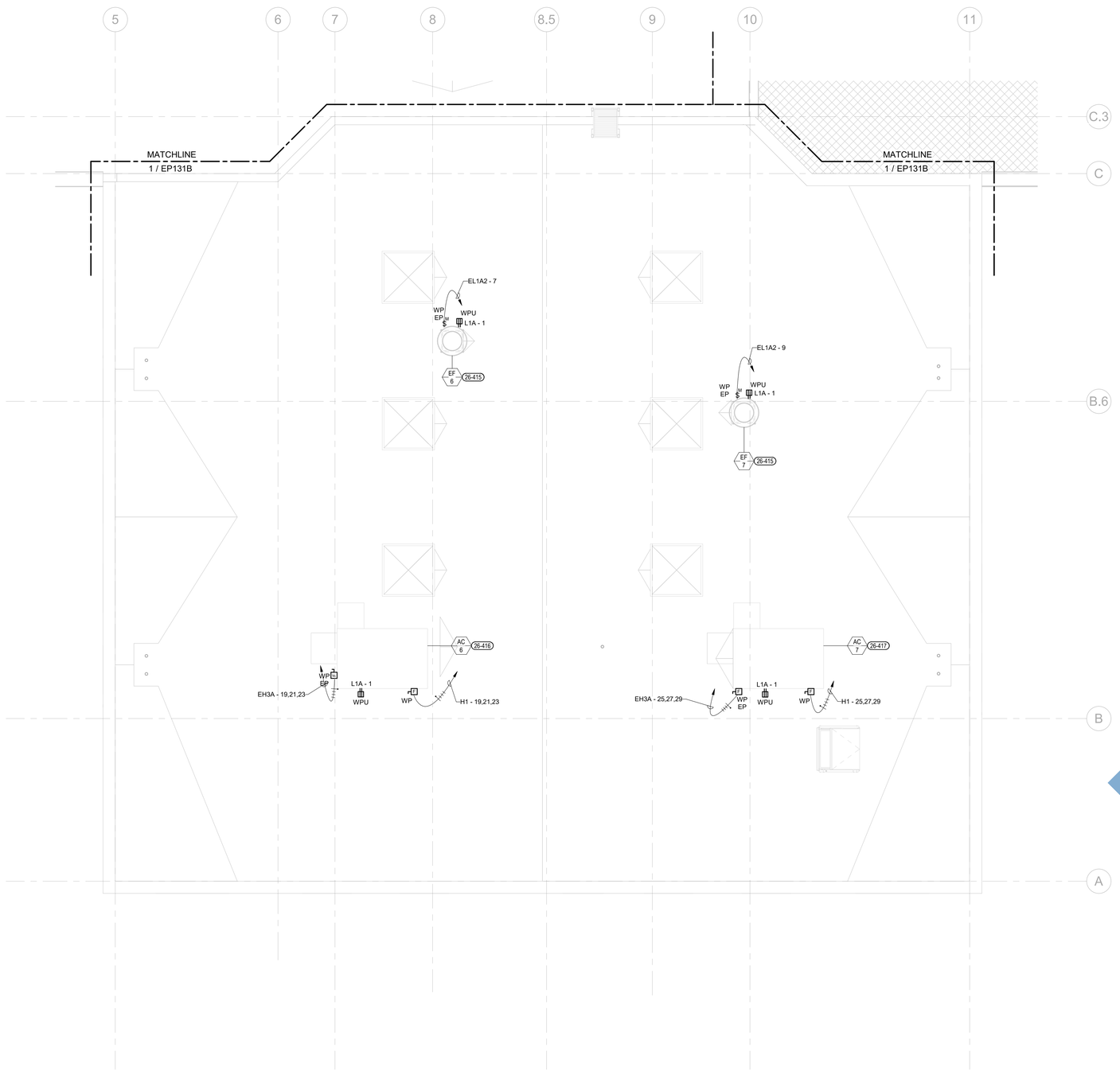

1 **POWER PLAN - ROOF - AREA 'D'**

SCALE: 1/4" = 1'-0"

PLAN NORTH

KEY NOTES

(25-XXX)

26-415 115V/1Ø, 1/2 HP.

26-416 NORMAL POWER: AC CIRCUIT #2 - 460V/3Ø, MCA/MOCP: 14.7A/20A. EMERGENCY POWER: AC CIRCUIT #1 - 460V/3Ø, MCA/MOCP: 4.5A/15A AND POWER EXHAUST - 460/3Ø, FLA; 1.6A.

26-417 NORMAL POWER: AC CIRCUIT #2 - 460V/3Ø, MCA/MOCP: 14.7A/20A. EMERGENCY POWER: AC CIRCUIT #1 - 460V/3Ø, MCA/MOCP: 4.5A/15A AND POWER EXHAUST - 460/3Ø, FLA; 2.2A.

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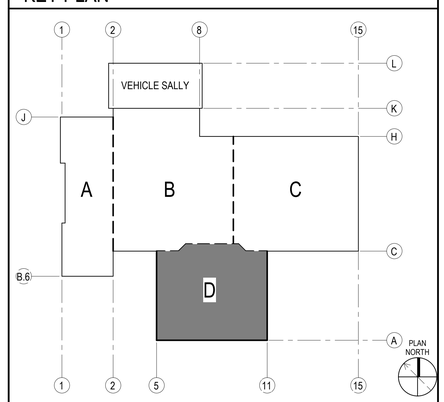
10. SEE DETAIL 4/E-512 FOR CONDUIT PENETRATION THROUGH ROOF.

Draft

KEY PLAN



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TITLE
POWER PLAN - ROOF - AREA 'D'

SHEET
EP131D

V1

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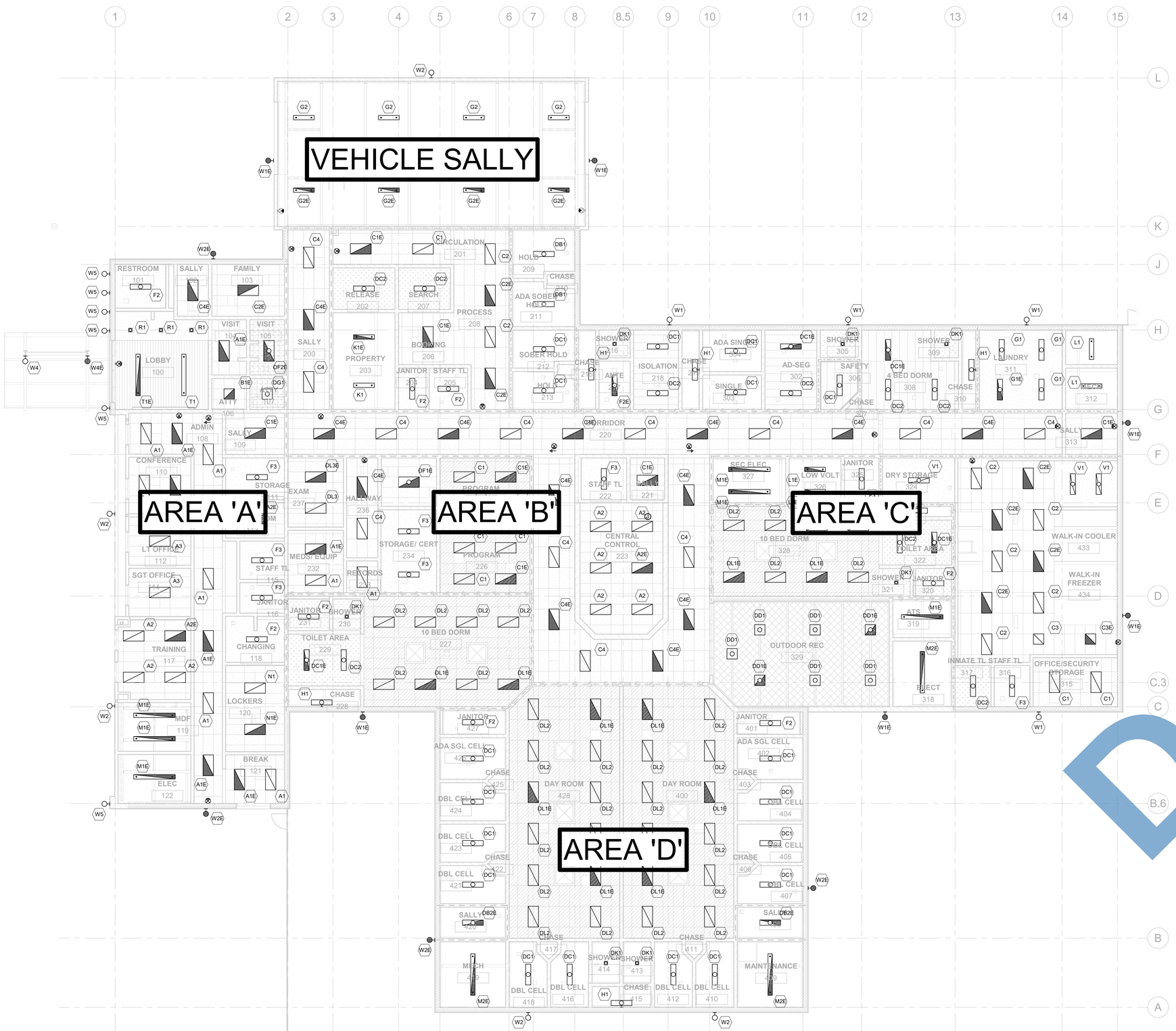


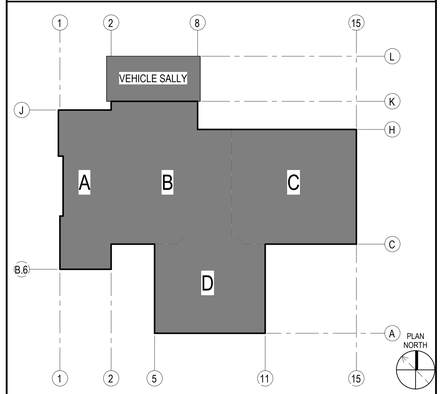
1 LIGHTING PLAN - LEVEL 1 - OVERALL

SCALE: 1/8" = 1'-0"

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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TITLE

LIGHTING PLAN - LEVEL 1 - OVERALL

SHEET

EL111

V1

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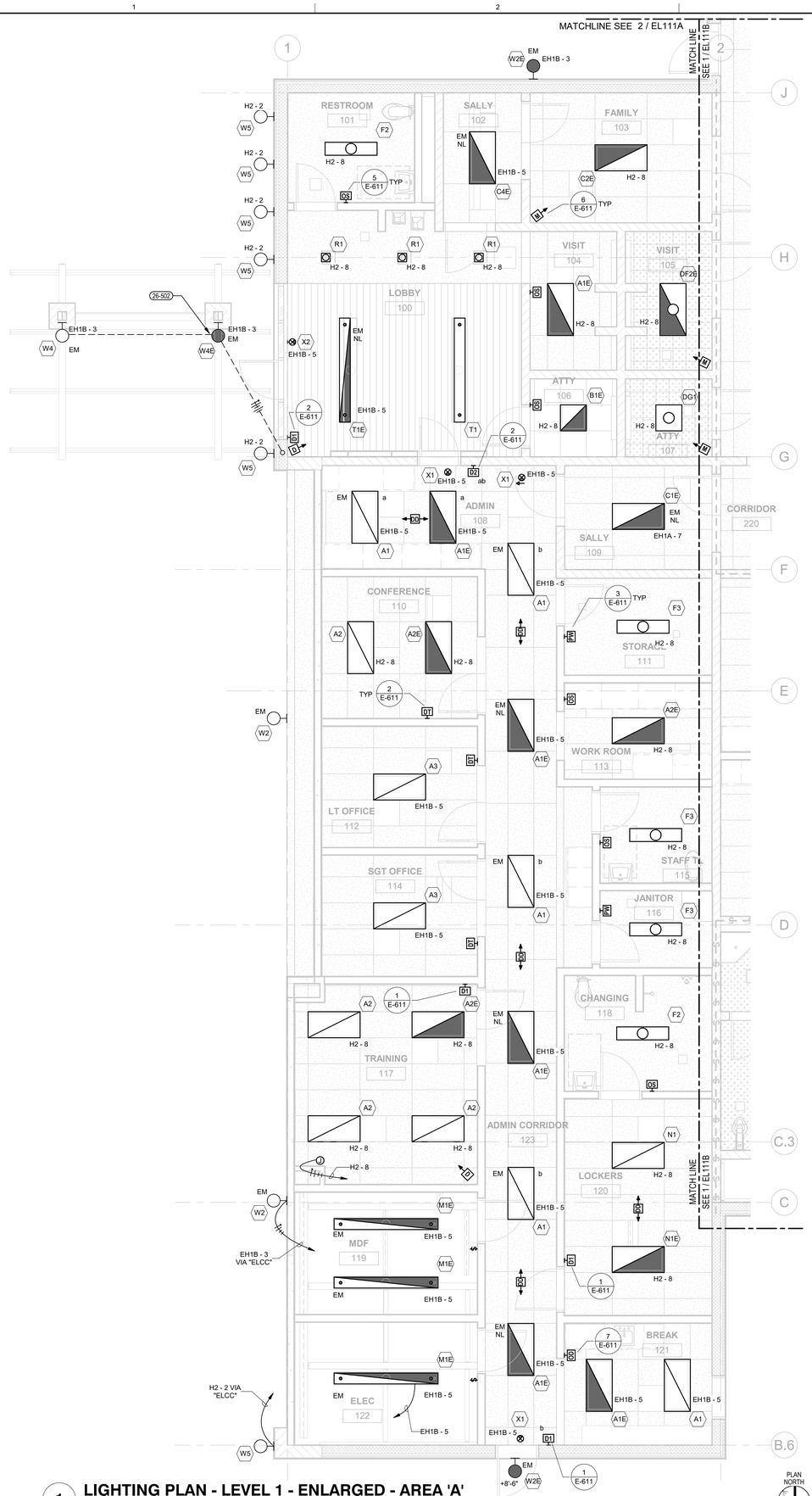
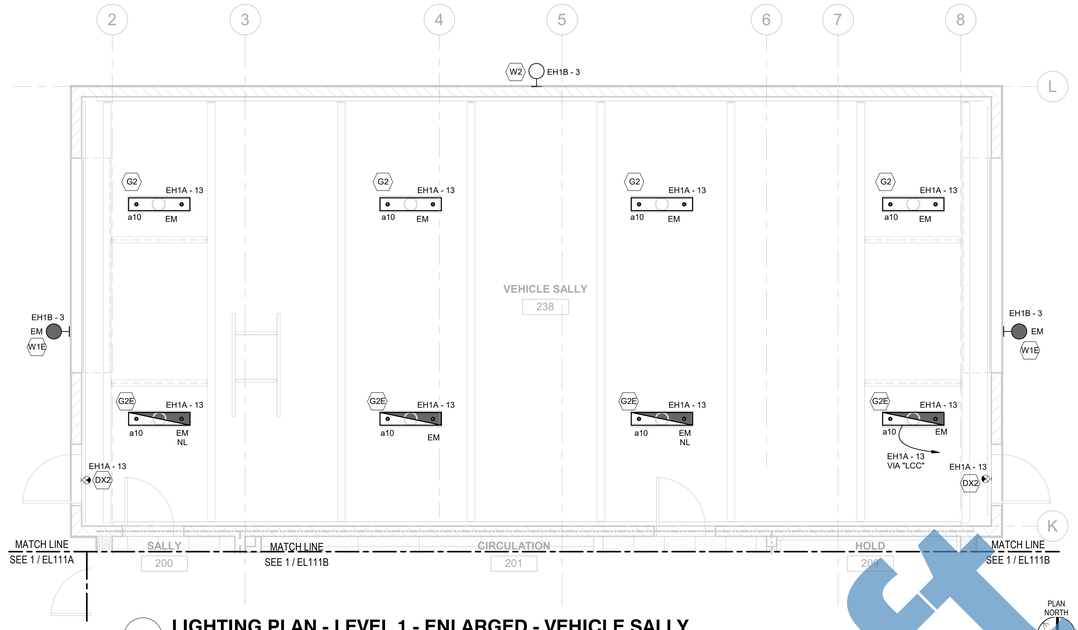


1 LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SCALE: 1/4" = 1'-0"

(25-XXX) **KEY NOTES**

26-502 LOCATE REMOTE INVERTER IN ACCESSIBLE CEILING SPACE.



2 LIGHTING PLAN - LEVEL 1 - ENLARGED - VEHICLE SALLY

SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALL, AND CEILINNGS. "THROUGH" PENETRATIONS SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED (CBC 714.4.2). SEE CORRESSPONDING DETAILS(S) FOR EACH OF THE FOLOWING TYPES OF PENETRATIONS:
   a. CMU WALL: 2/E-513, 3/E-514.
   b. METAL STUD WALL: 1/E-513, 4/E-514.
2. PROVIDE FIRE STOPPING AT ALL MEMBRANE PENETRATIONS (I.E. ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS) WITH A F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED. SEE DETAIL 1/E-715.
3. LOCATE ALL ROOM CONTROLLERS AND POWER PACKS IN ACCESSIBLE CEILING SPACE OF RESPECTIVE ROOM. IN ROOMS WITH HARDLID CEILINGS, LOCATE ROOM CONTROLLERS IN NEAREST ADJACENT ROOM WITH T-BAR CEILING.
4. PROVIDE 0-10V LOW VOLTAGE CONTROL WIRING, CAT5E CABLING AND ANY OTHER COMPONENTS REQUIRED FOR A COMPLETE AND OPERABLE DIMMING LIGHTING CONTROL SYSTEM, AS REQUIRED IN EACH ROOM WHERE DIMMING CONTROLS ARE INDICATED. REFER, ALSO TO LIGHTING CONTROLS WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.
5. LIGHTING LEVELS IN HOUSING DAYROOMS AND ACTIVITY AREAS FOR INMATES SHALL NOT BE LESS THAN 20 FOOTCANDLES AT DESK LEVEL.
6. ALL LIGHTS AT SECURITY PLANK CEILINGS SHALL BE CENTERED IN PANELS AND SHALL NOT CROSS OVER JOINTS. LIGHTS SHALL ALSO BE INDEPENDANTLY SUPPORTED FROM STUCTURE ABOVE PANELS.
7. WIRE EM BATTERY PACKS, EXIT SIGNS AND NIGHT LIGHTS (NL) TO UNSWITCHED LIGHTING CIRCUIT.
8. FOR ALL DETENTION LUMINAIRES WITH INTEGRAL NIGHT LIGHT (NL), WIRE THE LED DRIVER FOR AMBIENT LIGHTING TO SWITCHED CIRCUIT AND THE LED DRIVER FOR "NL" TO UNSWITCHED CIRCUIT.
9. LOWERCASE LETTERS NEXT TO LUMINAIRE SYMBOL INDICATES SWITCH LEG FORO LOCAL LIGHTING CONTROLS OR VIA LIGHTING CONTROL CABINET.

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
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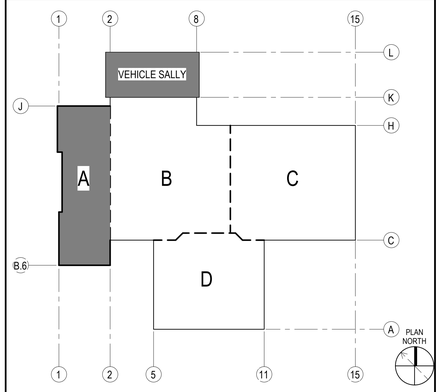
KEY PLAN



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TITLE
LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SHEET
EL111A

V1

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1 LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'B'

SCALE: 1/4" = 1'-0"

KEY NOTES

(25-XXX)

26-501 COORDINATE EXACT LOCATION WITH COUNTY REPRESENTATIVE.

26-503 SWITCH LEG CONTROLLED FROM DIMMER IN CENTRAL CONTROL 223.

GENERAL NOTES

1. PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALL, AND CEILINNGS. "THROUGH" PENETRATIONS SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED (CBC 714.4.2). SEE CORRESSPONDING DETAILS(S) FOR EACH OF THE FOLOWING TYPES OF PENETRATIONS:
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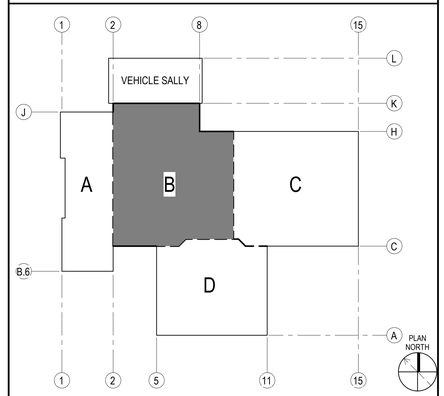
9. LOWERCASE LETTERS NEXT TO LUMINAIRE SYMBOL INDICATES SWITCH LEG FORO LOCAL LIGHTING CONTROLS OR VIA LIGHTING CONTROL CABINET.

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- S S — SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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Job #: 18-2115

SEAL

REGISTERED PROFESSIONAL ENGINEER CHRISTIAN PADURARU 19533 EXP. 6-30-25 ELECTRICAL STATE OF CALIFORNIA

PROJECT

MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT

MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE

LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'B'

SHEET

EL111B

V1

Draft

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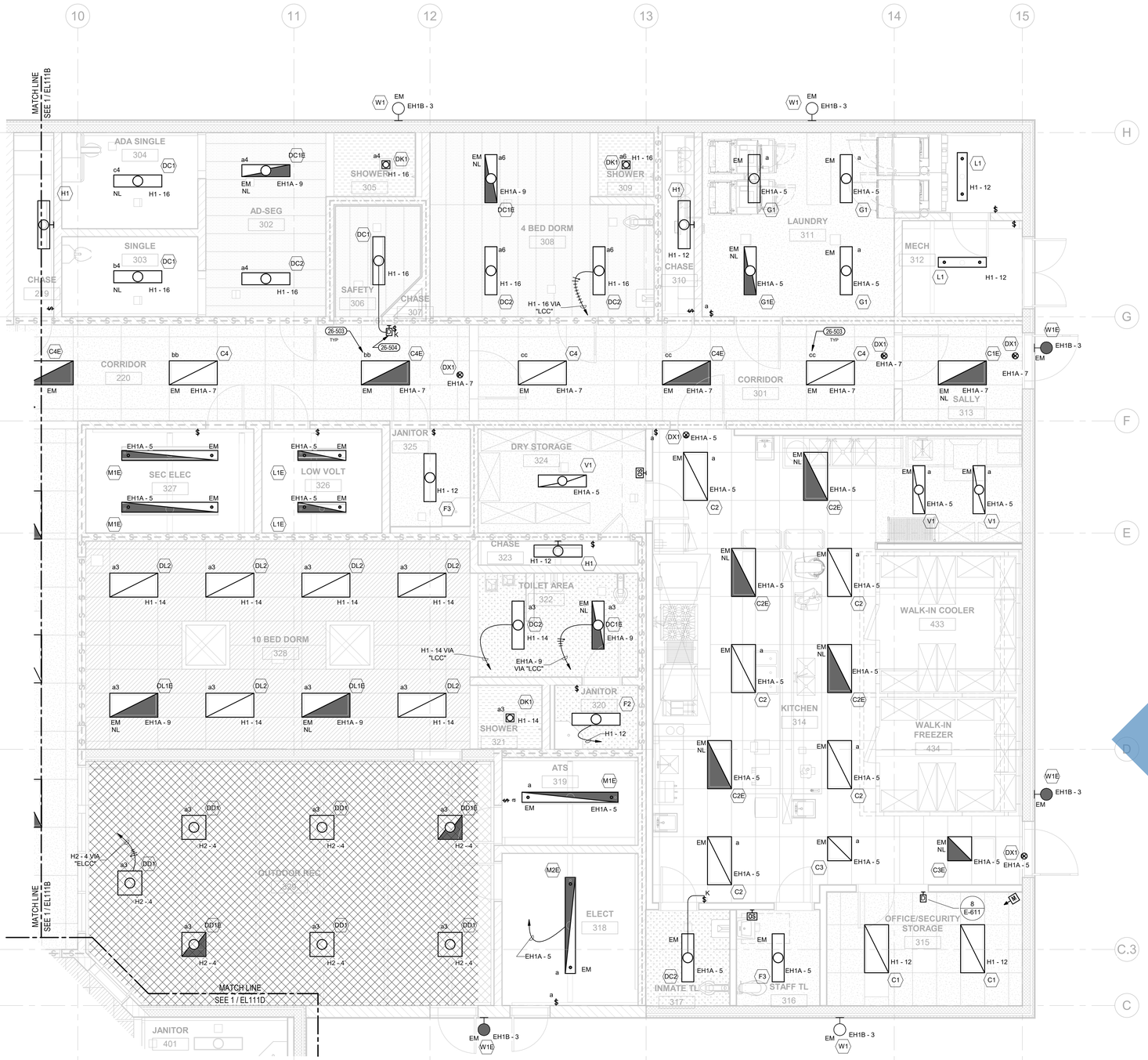

1 LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'C'

SCALE: 1/4" = 1'-0"

PLAN NORTH

KEY NOTES

(25-XXX)

26-503 SWITCH LEG CONTROLLED FROM DIMMER IN CENTRAL CONTROL 223.

26-504 PROVIDE 0-10V LED DIMMER WITH HEAVY DUTY STEEL LOCKABLE COVER WITH BARREL TYPE KEY.

GENERAL NOTES

1. PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALL, AND CEILINNGS. "THROUGH" PENETRATIONS SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED (CBC 714.4.2). SEE CORRESSPONDING DETAILS(S) FOR EACH OF THE FOLOWING TYPES OF PENETRATIONS:
   a. CMU WALL: 2/E-513, 3/E-514.
   b. METAL STUD WALL: 1/E-513, 4/E-514.
2. PROVIDE FIRE STOPPING AT ALL MEMBRANE PENETRATIONS (I.E. ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS) WITH A F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED. SEE DETAIL 1/E-715.
3. LOCATE ALL ROOM CONTROLLERS AND POWER PACKS IN ACCESSIBLE CEILING SPACE OF RESPECTIVE ROOM. IN ROOMS WITH HARDLID CEILINGS, LOCATE ROOM CONTROLLERS IN NEAREST ADJACENT ROOM WITH T-BAR CEILING.
4. PROVIDE 0-10V LOW VOLTAGE CONTROL WIRING, CAT5E CABLING AND ANY OTHER COMPONENTS REQUIRED FOR A COMPLETE AND OPERABLE DIMMING LIGHTING CONTROL SYSTEM, AS REQUIRED IN EACH ROOM WHERE DIMMING CONTROLS ARE INDICATED. REFER. ALSO TO LIGHTING CONTROLS WIRING DIAGRAMS FOR ADDITIONAL INFORMATION.
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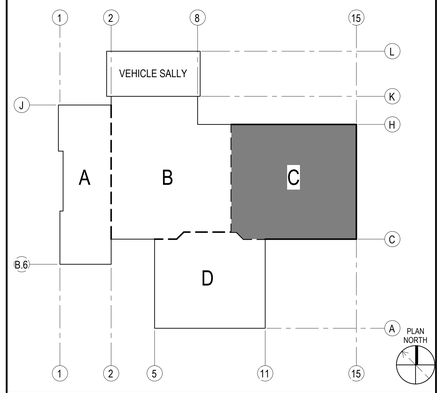
- WALL GUARD, SEE DETAIL

KEY PLAN



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MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:

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TITLE

LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'C'

SHEET

EL111C

V1

Draft

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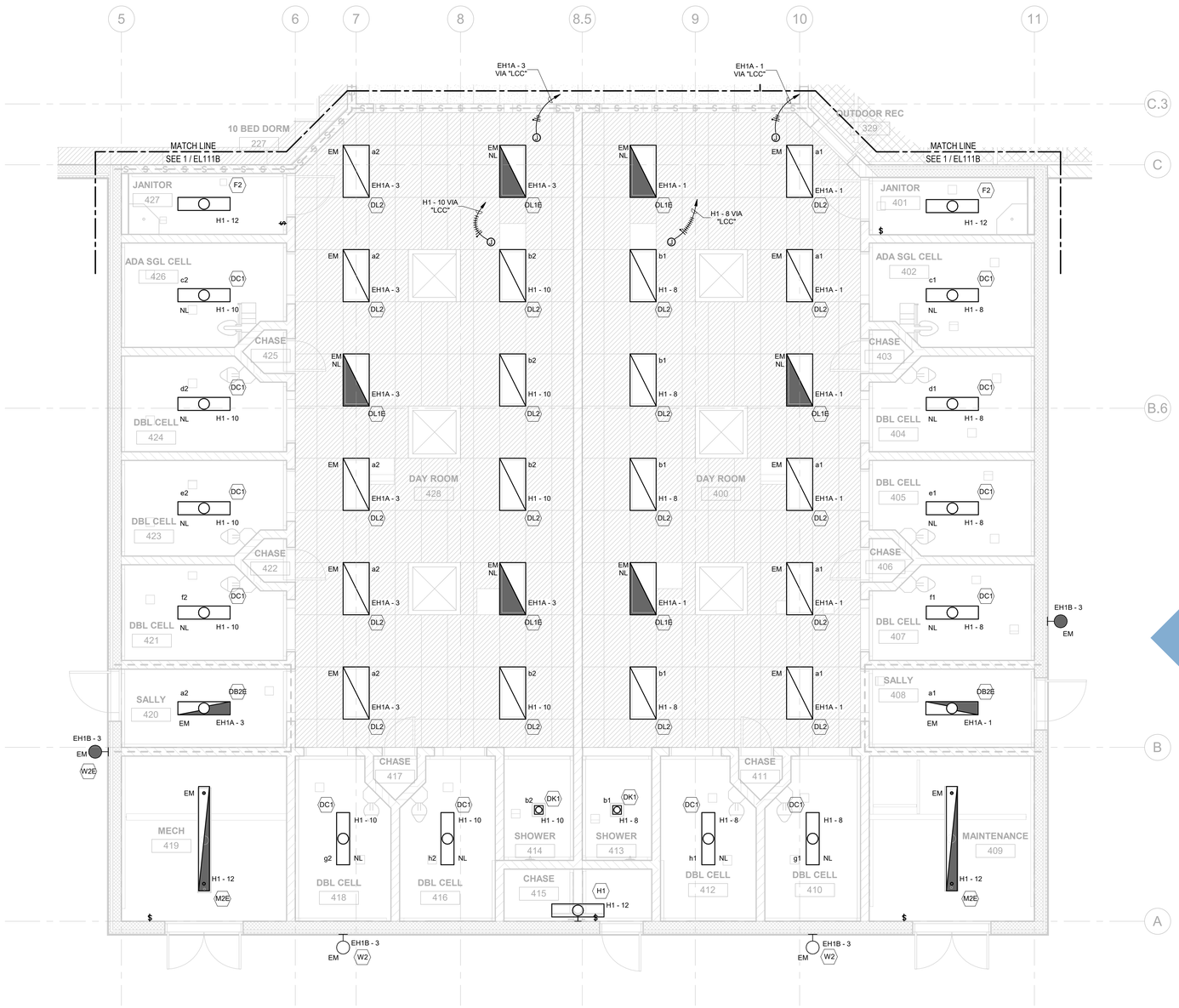

1 **LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'D'**

SCALE: 1/4" = 1'-0"

PLAN NORTH

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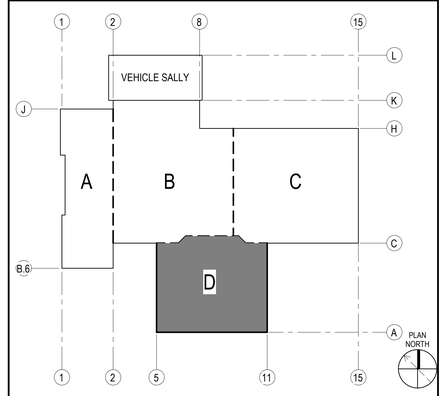
- WALL GUARD, SEE DETAIL

KEY PLAN



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TITLE

LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'D'

SHEET

EL111D

V1

Draft

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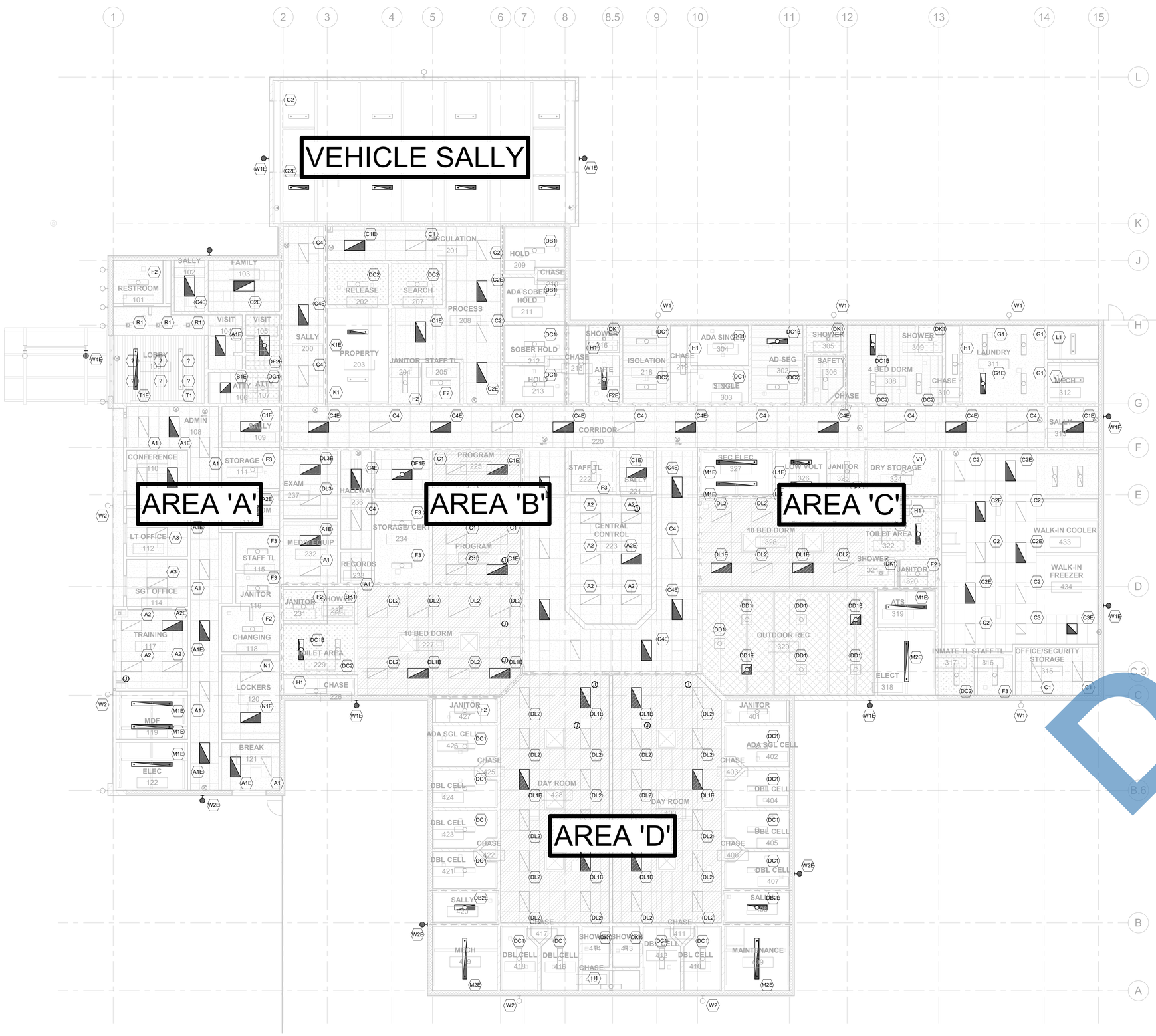
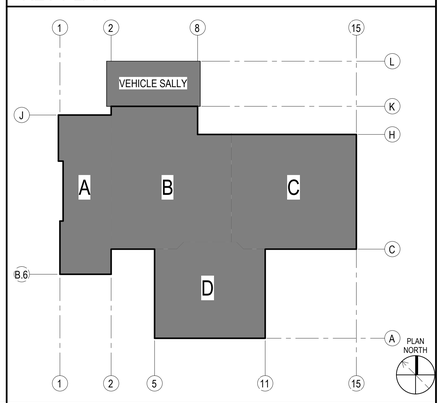


1 **EMERGENCY LIGHTING PHOTOMETRIC PLAN - LEVEL 1 - OVERALL**

SCALE: 1/8" = 1'-0"

KEY PLAN



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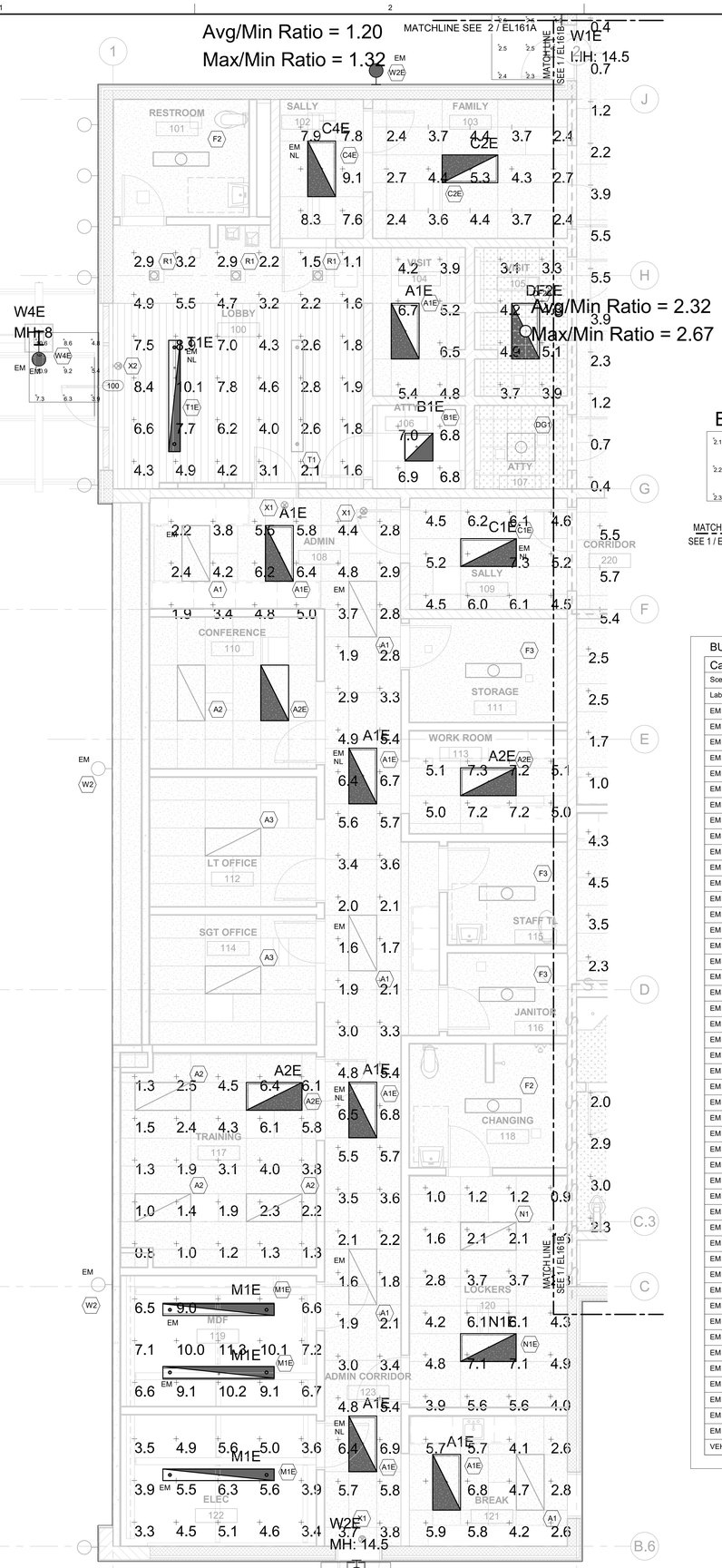
TITLE

EMERGENCY LIGHTING PHOTOMETRICS PLAN - LEVEL 1 - OVERALL

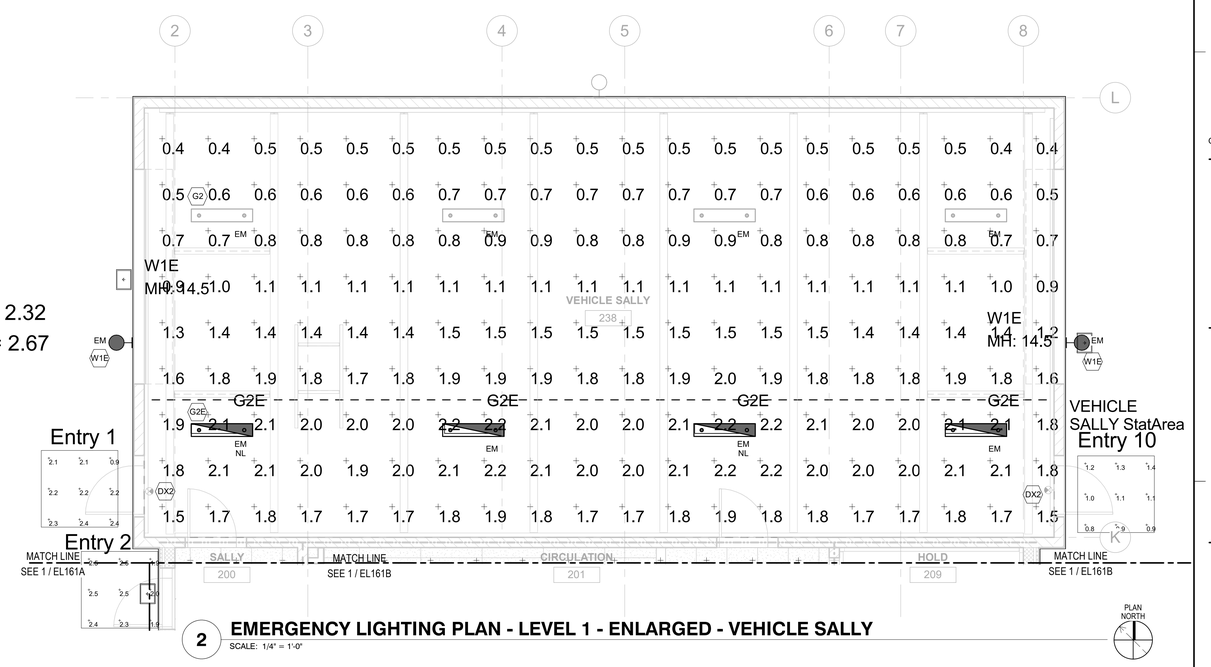
SHEET

EL161

V1



1 **EMERGENCY LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'A'**
SCALE: 1/4" = 1'-0"



2 **EMERGENCY LIGHTING PLAN - LEVEL 1 - ENLARGED - VEHICLE SALLY**
SCALE: 1/4" = 1'-0"

BUILDING INTERIOR

Calculation Summary

Scene: EM

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
EM 10 BED DORM 227_Floor	Illuminance	Fc	1.29	2.8	0.3	4.30	9.33
EM 10 BED DORM 328_Floor	Illuminance	Fc	1.51	2.8	0.4	3.78	7.00
EM 238_Floor	Illuminance	Fc	1.34	2.2	0.4	3.35	5.50
EM 4 BED DORM 308_Floor	Illuminance	Fc	1.51	3.5	0.3	5.03	11.67
EM ADMIN 108_Floor	Illuminance	Fc	3.96	6.9	1.6	2.48	4.31
EM ANTE 217_Floor	Illuminance	Fc	2.20	2.4	2.0	1.10	1.20
EM ATS 319_Floor	Illuminance	Fc	6.04	6.8	5.2	1.16	1.31
EM ATTY 106_Floor	Illuminance	Fc	6.88	7.0	6.8	1.01	1.03
EM BREAK 121_Floor	Illuminance	Fc	4.79	6.8	2.6	1.84	2.62
EM CENTRAL CONTROL 223_	Illuminance	Fc	2.40	5.8	0.7	3.43	8.29
EM CIRCULATION 201_Floor	Illuminance	Fc	3.93	7.4	0.9	4.37	8.22
EM CORRIDOR 220_Floor	Illuminance	Fc	4.17	8.0	0.5	8.34	16.00
EM DAY ROOM 400_Floor	Illuminance	Fc	1.30	2.1	0.4	3.25	5.25
EM DAY ROOM 428_Floor	Illuminance	Fc	1.30	2.1	0.3	4.33	7.00
EM ELEC 122_Floor	Illuminance	Fc	4.58	6.3	3.3	1.39	1.91
EM ELEC 318_Floor	Illuminance	Fc	4.45	5.7	3.4	1.31	1.68
EM EXAM 237_Floor	Illuminance	Fc	2.30	3.6	1.0	2.30	3.60
EM FAMILY 103_Floor	Illuminance	Fc	3.50	5.3	2.4	1.46	2.21
EM HALLWAY 236_Floor	Illuminance	Fc	4.84	7.8	1.3	3.72	6.00
EM KITCHEN 314_Floor	Illuminance	Fc	3.64	6.9	0.5	7.28	13.80
EM LAUNDRY 311_Floor	Illuminance	Fc	1.54	3.0	0.5	3.08	6.00
EM LOBBY 100_Floor	Illuminance	Fc	4.24	10.1	1.1	3.85	9.18
EM LOCKERS 120_Floor	Illuminance	Fc	3.68	7.1	0.9	4.09	7.89
EM LOW VOLTAGE 326_Floor	Illuminance	Fc	10.74	12.8	9.7	1.11	1.32
EM MDF 119_Floor	Illuminance	Fc	8.59	11.3	6.5	1.32	1.74
EM MECH 409_Floor	Illuminance	Fc	4.36	5.6	3.3	1.32	1.70
EM MECH 419_Floor	Illuminance	Fc	4.36	5.6	3.3	1.32	1.70
EM MEDS_EQUIP 232_Floor	Illuminance	Fc	4.34	6.4	2.3	1.89	2.78
EM OFFICE 235_Floor	Illuminance	Fc	3.73	4.7	3.1	1.20	1.52
EM OUTDOOR REC 329_Floor	Illuminance	Fc	1.35	2.0	0.6	2.25	3.33
EM PROGRAM 225_Floor	Illuminance	Fc	3.33	6.7	0.9	3.70	7.44
EM PROGRAM 226_Floor	Illuminance	Fc	3.25	6.9	0.9	3.61	7.67
EM PROPERTY 203_Floor	Illuminance	Fc	2.64	4.3	1.0	2.64	4.30
EM SALLY 102_Floor	Illuminance	Fc	8.27	9.1	7.6	1.09	1.20
EM SALLY 109_Floor	Illuminance	Fc	5.63	7.3	4.5	1.25	1.62
EM SALLY 200_Floor	Illuminance	Fc	2.50	6.8	0.4	6.25	17.00
EM SALLY 221_Floor	Illuminance	Fc	4.47	5.9	3.2	1.40	1.84
EM SALLY 313_Floor	Illuminance	Fc	5.68	7.4	4.4	1.29	1.68
EM SALLY 408_Floor	Illuminance	Fc	3.15	3.7	2.6	1.21	1.42
EM SALLY 420_Floor	Illuminance	Fc	3.16	3.7	2.6	1.22	1.42
EM SEC ELEC 327_Floor	Illuminance	Fc	8.73	11.8	6.5	1.34	1.82
EM TOILET AREA 322_Floor	Illuminance	Fc	1.79	3.5	0.1	17.90	35.00
EM TOILETS 229_Floor	Illuminance	Fc	1.64	3.4	0.1	16.40	34.00
EM TRAINING 117_Floor	Illuminance	Fc	2.78	6.4	0.8	3.48	8.00
EM VISIT 104_Floor	Illuminance	Fc	5.51	7.4	3.9	1.41	1.90
EM VISIT 105_Floor	Illuminance	Fc	4.13	5.1	3.1	1.33	1.65
EM WORKROOM 113_Floor	Illuminance	Fc	6.14	7.3	5.0	1.23	1.46
VEHICLE SALLY StatArea	Illuminance	Fc	1.95	2.2	1.5	1.30	1.47

Luminaire Schedule

Scene: EM

Symbol	Label	Arrangement	Description	Lum. Lumens	LLF	Filename
-	A1E	SINGLE	WILLIAMS AT2-24-L40-835-D-EM/10W-DIM-UNV	4117	0.900	AT2-24-L40-835-D-DIM-UNV_.IES
-	A2E	SINGLE	WILLIAMS AT2-24-L55-835-D-EM/10W-DIM-UNV	5634	0.900	AT2-24-L55-835-D-DIM-UNV_.ies
-	B1E	SINGLE	WILLIAMS AT2-22-L30-835-D-EM/10W-DIM-UNV	3028	0.900	AT2-22-L30-835-D-DIM-UNV_.IES
-	C1E	SINGLE	WILLIAMS 50G-S24-L59-835-S-X21-PA250-VLF-EM/10W-DIM-UNV	6231	0.900	50G-S24-L59-835-SAF12125-DIM-UNV_.ies
-	C2E	SINGLE	WILLIAMS 50G-S24-L90-(L65)-835-S-X21-PA250-VLF-EM/10W-DIM-UNV	6125	0.900	50G-S24-L90-835-SAF12125-(L60)-DIM-UNV_.ies
-	C3E	SINGLE	WILLIAMS 50G-S22-L65-835-S-X21-PA250-VLF-EM/10W-DIM-UNV	6513	0.900	50G-S22-L65-835-SAF12125-DIM-UNV_.ies
-	C4E	SINGLE	WILLIAMS 50G-S24-L33-835-S-X21-PA250-VLF-EM/10W-DIM-UNV	3469	0.900	50G-S24-L33-835-SAF12125-DIM-UNV_.ies
-	DB2E	SINGLE	KENALL SDSA-4-00-1-67L35K-DCC-1-DV-1/9-1-LEL	5168	0.900	SDSA-4-1-1-67L35K-DCC-1-DV-YB.ies
-	DC1E	SINGLE	KENALL SDSA-4-00-1-45L35K-DCC-1-DV-1/9-1-DLN-LEL	3605	0.900	SDSA-4-1-1-45L35K-DCC-1-DV-YB.ies
-	DD1E	SINGLE	KENALL SDD-2-0-0-25L35K-DCC-DV-1/9-1-LEL-WL	2901	0.900	SDD-2-x-y-25L35K-DCC-z-SYM-B-1.ies
-	DF1E	SINGLE	KENALL SCD-4-0_0-67L35K-DCC-DV-1/9-1-LEL-SP-C-4888	8313	0.900	SCD-4-x-y-67L35K-DCC-z-SYM-B-1.ies
-	DF2E	SINGLE	KENALL SCD-4-0_0-45L35K-DCC-DV-1/9-1-LEL	5206	0.900	SCD-4-x-y-45L35K-DCC-z-SYM-B-1.ies
-	DL1E	SINGLE	KENALL RMCD-4-TG-00-45L35K-DCC-DV-1/9-DLN-LEL	3949	0.900	RMCD-4-TG-11-45L35K-DCC-DV-YB.ies
-	DL3E	SINGLE	KENALL RMCD-4-TG-00-90L35K-DCC-DV-1/9-LEL	7199	0.900	RMCD-4-TG-11-90L35K-DCC-DV-YB.ies
-	F2E	SINGLE	WILLIAMS 39-4-L52-835-A-DIM-UNV-EM/10WLP	5206	0.900	39-4-L52-835-A-DIM-UNV_.ies
-	G1E	SINGLE	WILLIAMS AVX-4-L62-835-WPC-EM/10WLP-DIM-UNV	4315	0.900	AVX-4-L62-835-WPC-DIM-UNV_.ies
-	G2E	SINGLE	WILLIAMS AVX-4-L82-835-WPC-EM/10WLP-DIM-UNV	5728	0.900	AVX-4-L82-835-WPC-DIM-UNV_.ies
-	K1E	SINGLE	WILLIAMS AVX-4-L100-835-CPC-DIM-UNV-AC(Y12)-D48-EM/10WLP	10924	0.900	AVX-4-L100-835-CPC-DIM-UNV.IES
-	L1E	SINGLE	WILLIAMS 39-4-L84-835-A-AC(Y12)-D48-DIM-UNV-EM/10WLP	8398	0.900	39-4-L84-835-A-DIM-UNV_.ies
-	M1E	SINGLE	WILLIAMS 39-8-L104-835-A-AC(Y12)-D48-DIM-UNV-EM/10WLP	10472	0.900	39-8-L104-835-A-DIM-UNV_.ies
-	M2E	SINGLE	WILLIAMS 39-8-L169-835-A-AC(Y12)-D48-DIM-UNV-EM/10WLP	16769	0.900	39-V-8-L168-835-A-DIM-UNV_.ies
-	N1E	SINGLE	WILLIAMS 50G-S24-L59-835-S-AF12125-EM/10W-DIM-UNV	6231	0.900	50G-S24-L59-835-SAF12125-DIM-UNV_.ies
-	T1E	SINGLE	FINELITE HP-2-ID-4ft-S-S-835-T-F-96LG-277-DC-FC-10-FA50-C4-FE-LGD-10W	2860	0.900	HP-2-ID-4ft-S-S-835-ITL85132.001.ies

EXTERIOR ENTRYS

Luminaire Schedule

Scene: EM

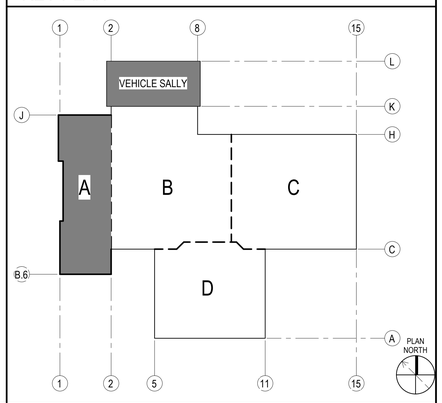
Symbol	Label	Arrangement	Description	Lum. Lumens	LLF	Filename
-	W1E	SINGLE	LEOTEK ES1-24H-MV-NW-FT-xx-530-EM	4548	0.900	IES ES1-24H-MV-NW-FT-XX-530 043015.ies
-	W2E	SINGLE	LEOTEK ES1-24H-MV-NW-W-xx-530-EM	4541	0.900	IES ES1-24H-MV-NW-W-XX-530 040815.ies
-	W4E	SINGLE	METEOR LA4-20-408-UNV-STV-WD-WD-xx-OUT (INVERTER)	1815	0.900	LA4-20-408-XXX-XXX-WDWD-XXX-XXX.ies

Calculation Summary

Scene: EM

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Entry 1	Illuminance	Fc	2.09	2.4	0.9	2.32	2.67
Entry 10	Illuminance	Fc	1.08	1.4	0.8	1.35	1.75
Entry 2	Illuminance	Fc	2.28	2.5	1.9	1.20	1.32
Entry 3	Illuminance	Fc	7.44	10.9	3.9	1.91	2.79
Entry 4	Illuminance	Fc	2.21	2.3	2.1	1.05	1.10
Entry 5	Illuminance	Fc	1.93	2.2	1.6	1.21	1.38
Entry 6	Illuminance	Fc	2.23	2.4	2.0	1.12	1.20
Entry 7	Illuminance	Fc	2.08	2.4	1.8	1.16	1.33
Entry 8	Illuminance	Fc	1.76	2.1	1.4	1.26	1.50
Entry 9	Illuminance	Fc	2.04	2.2	1.8	1.13	1.22

KEY PLAN



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MANAGEMENT

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TITLE

EMERGENCY LIGHTING PHOTOMETRICS PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SHEET

EL161A

V1

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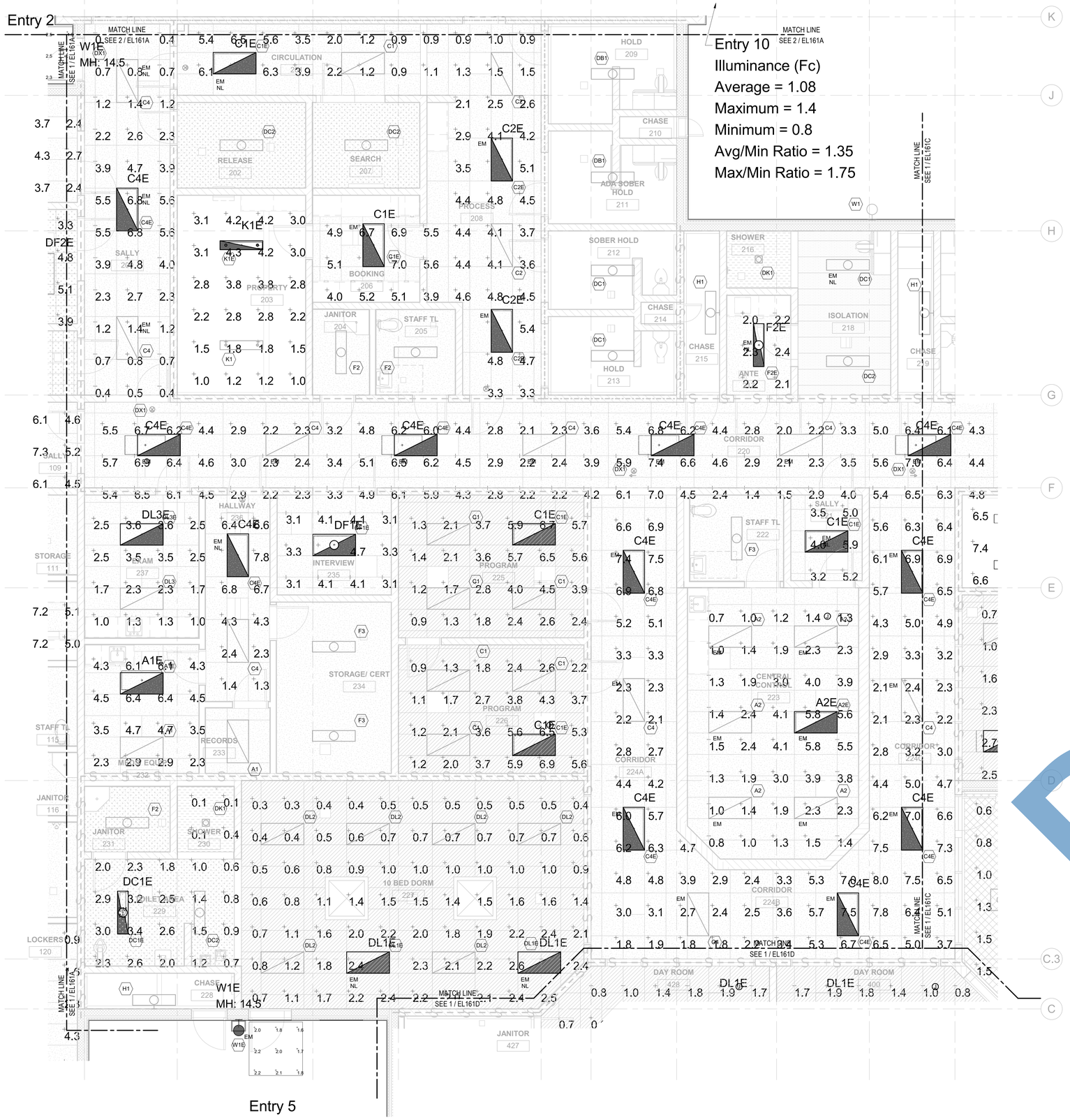


1 **EMERGENCY LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'B'**

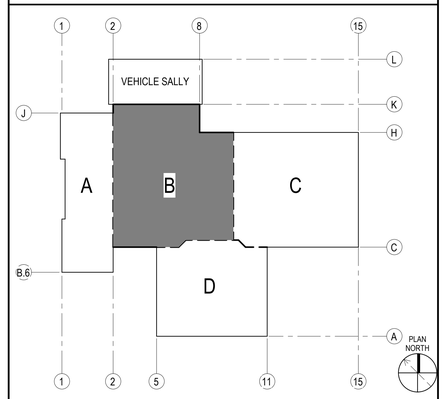
SCALE: 1/4" = 1'-0"

PLAN NORTH

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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SHEET

EL161B

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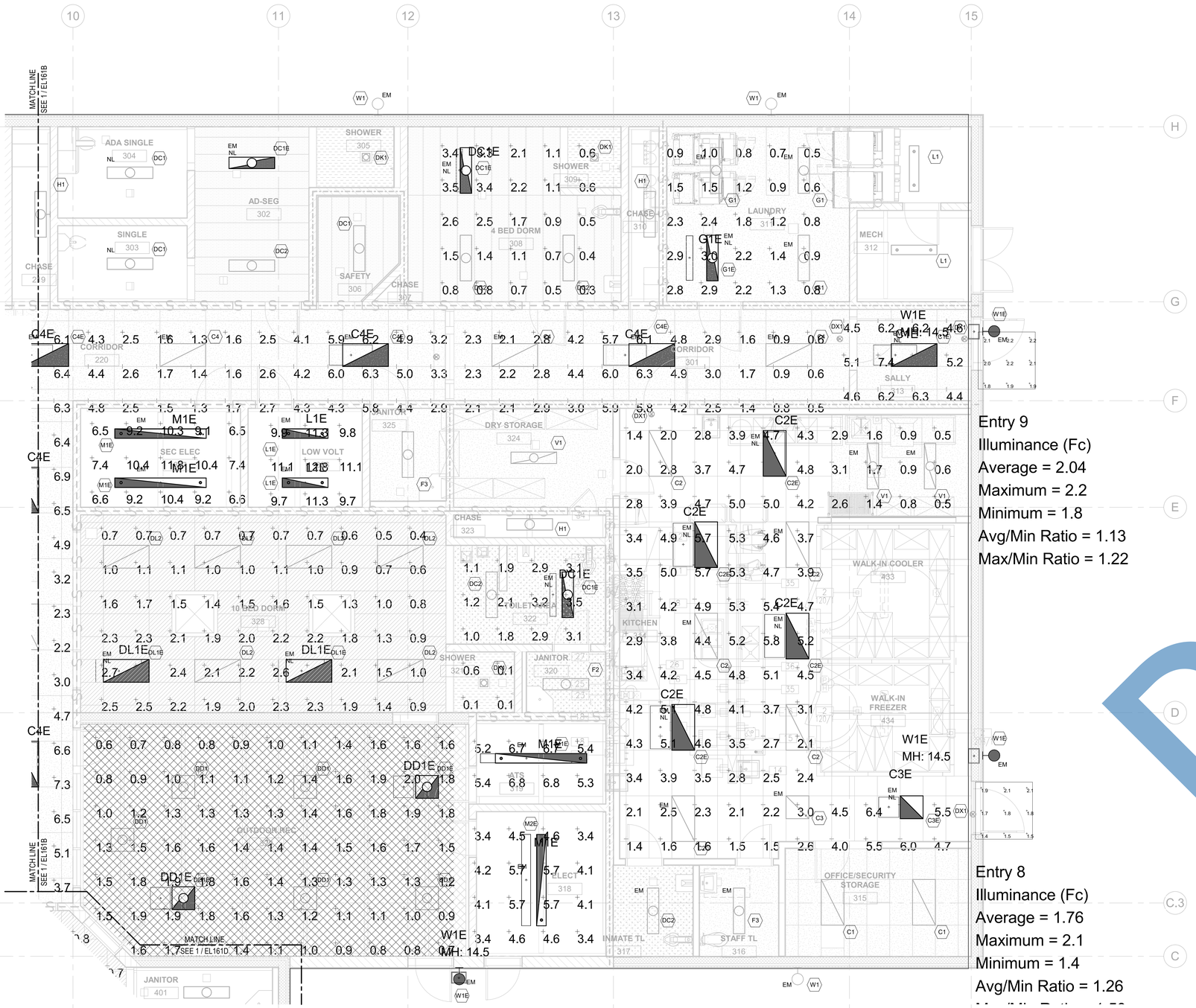


1 **EMERGENCY LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'C'**

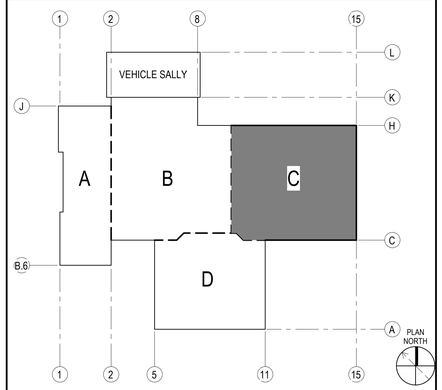
SCALE: 1/4" = 1'-0"

PLAN NORTH

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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TITLE
EMERGENCY LIGHTING PHOTOMETRICS PLAN - LEVEL 1 - ENLARGED - AREA 'C'

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EL161C

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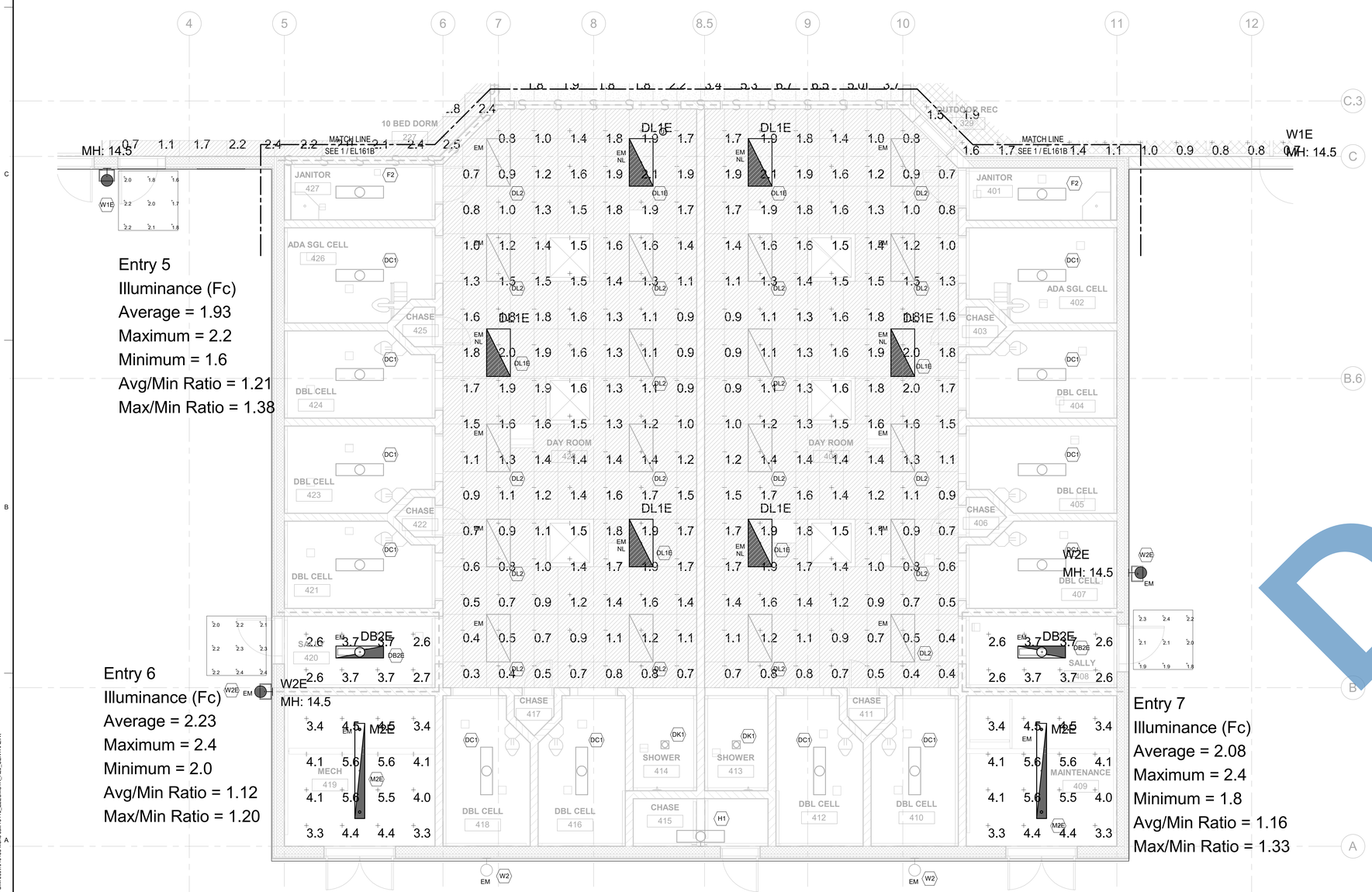


1 **EMERGENCY LIGHTING PLAN - LEVEL 1 - ENLARGED - AREA 'D'**

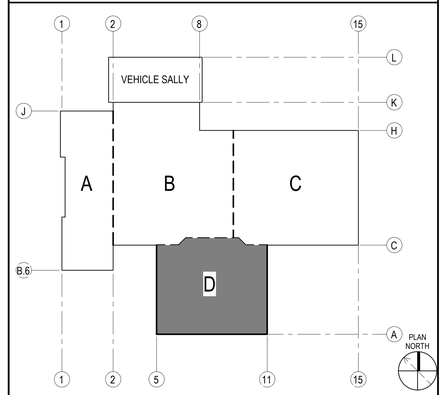
SCALE: 1/4" = 1'-0"

PLAN NORTH

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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EMERGENCY LIGHTING PHOTOMETRICS PLAN - LEVEL 1 - ENLARGED - AREA 'D'

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EL161D

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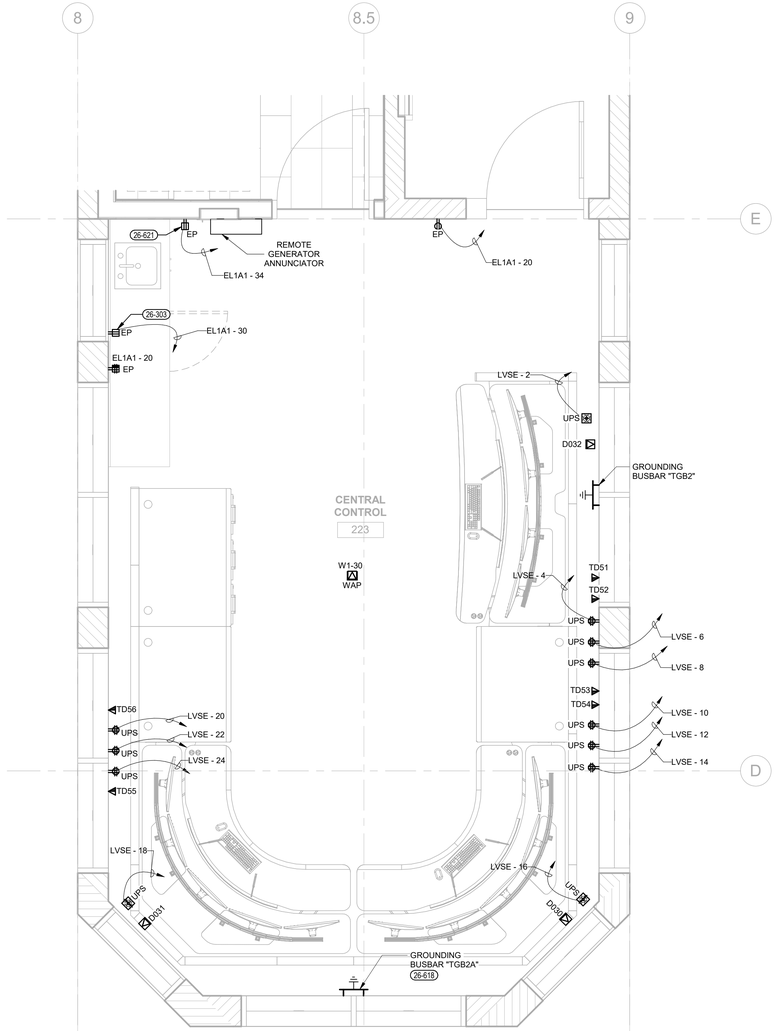
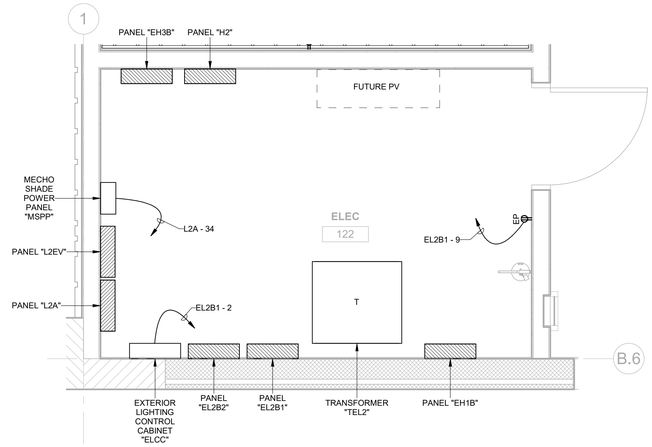


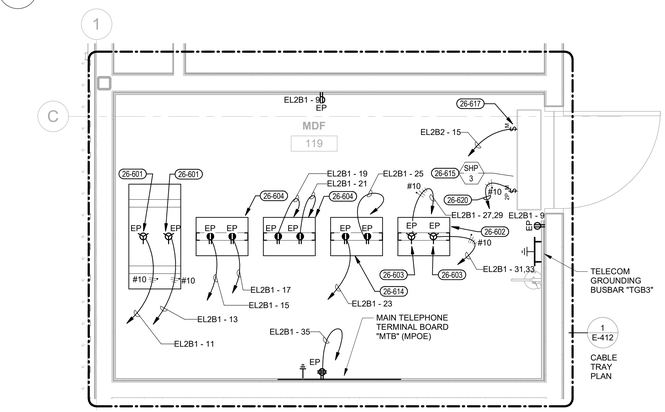
4 CENTRAL CONTROL 223 - ENLARGED POWER PLAN

SCALE: 1/2" = 1'-0"



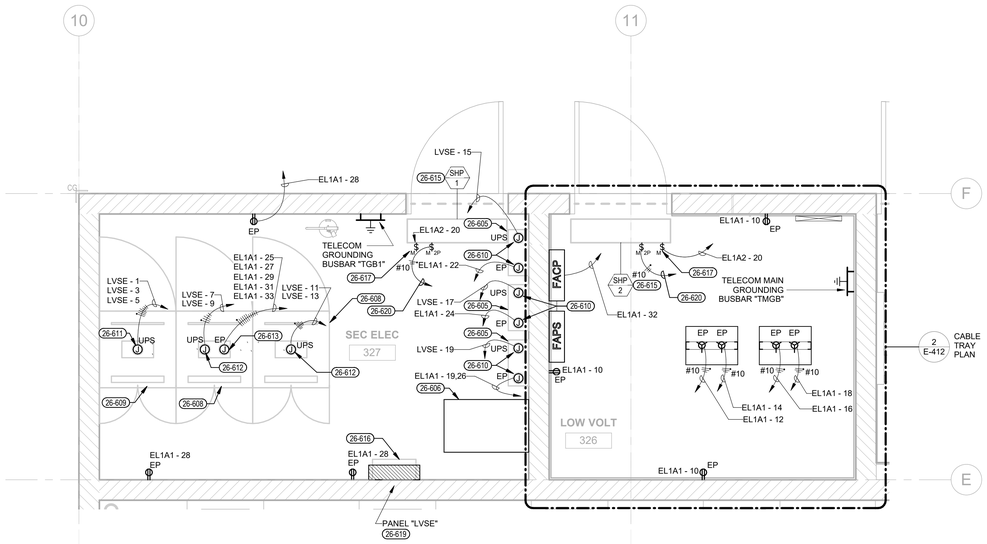
1 ELECTRICAL RM 122 - ENLARGED POWER PLAN

SCALE: 1/2" = 1'-0"



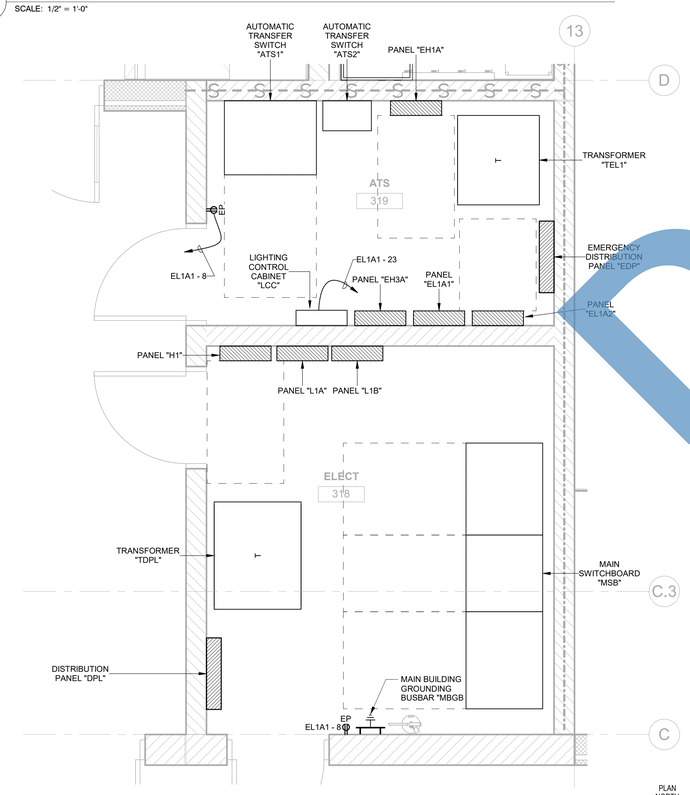
2 MDF ROOM 119 - ENLARGED POWER PLAN

SCALE: 1/2" = 1'-0"



5 SEC. ELEC. RM 327 & LOW VOLT 326 - ENLARGED POWER PLAN

SCALE: 1/2" = 1'-0"



3 ELECTRICAL RM 318 / ATS 319 - ENLARGED POWER PLAN

SCALE: 1/2" = 1'-0"

KEY NOTES

(26-XXX)

26-303 UNDERCOUNTER REFRIGERATOR.
26-601 TWIST LOCK RECEPTACLE "L5-30". 120V.
26-602 NGA 911 19" 2-POST RACK. LOCATION TBD.
26-603 TWIST LOCK RECEPTACLE "L6-30R". 30A, 208V/1PH AT TOP OF RACK.
26-604 2-POST NETWORK RACK.
26-605 ACCESS CONTROL SYSTEM ENCLOSURES (ACS) (BY DIV 28) (QUANTITY AS NEEDED). PROVIDE ALL REQUIRED CONDUITS FOR COMMUNICATION. SEE SECURITY ELECTRONICS DRAWINGS FOR QUANTITY, LOCATIONS, AND SPECS.
26-606 UNINTERRUPTIBLE POWER SUPPLY.
26-608 ELECTRONIC SECURITY SYSTEM CABINETS (BY DIV 28).
26-609 VIDEO MANAGEMENT AND RECORDING SYSTEM CABINETS (VMSR) (BY DIV 28).
26-610 (1) 20A, 120V (EACH).
26-611 (3) 20A, 120V.
26-612 (2) 20A, 120V.
26-613 (5) 20A, 120V.
26-614 VESTA (911) ELECTRONICS 2-POST RACK. LOCATION TBD.
26-615 208V /1Ø. INDOOR UNIT POWERED FROM OUTDOOR UNIT.
26-616 UPS BYPASS SWITCH, BELOW PANEL.
26-617 PROVIDE DISCONNECT SWITCH AND CONNECT TO CONDENSATE PUMP: 120V/ 1PH, 3.5A, 1/10HP.
26-618 PROVIDE GROUNDING BUSBAR AND CONDUCTOR TO EACH OPERATOR STATION. PROVIDE BONDING TO DISPATCH EQUIPMENT AND ANY METAL FURNITURE. COORDINATE ALL REQUIREMENTS WITH RADIO EQUIPMENT INSTALLER.
26-619 MOUNT PANEL SUCH THAT THE FACE OF THE PANEL IS ALIGNED WITH THE FACE OF UPS BYPASS SWITCH.
26-620 TO RESPECTIVE OUTDOOR UNIT ON ROOF.
26-621 RECEPTACLE FOR FIRE ALARM WORKSTATION. COORDINATE ALL POWER REQUIREMENTS AND EXACT LOCATION WITH FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN.

GENERAL NOTES

1. PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALL, AND CEILINGS. "THROUGH" PENETRATIONS SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED (CBC 714.4.2). SEE CORRESPONDING DETAIL(S) FOR EACH OF THE FOLOWING TYPES OF PENETRATIONS:
   a. CMU WALL: 2/E-513, 3/E-514, 5/E-514.
   b. METAL STUD WALL: 1/E-513, 2/E-514, 4/E-514.
2. PROVIDE FIRE STOPPING AT ALL MEMBRANE PENETRATIONS (I.E. ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS) WITH A F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED. SEE DETAIL 1/E-514.

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- S S SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

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ENLARGED POWER & TECHNOLOGY PLANS

SHEET
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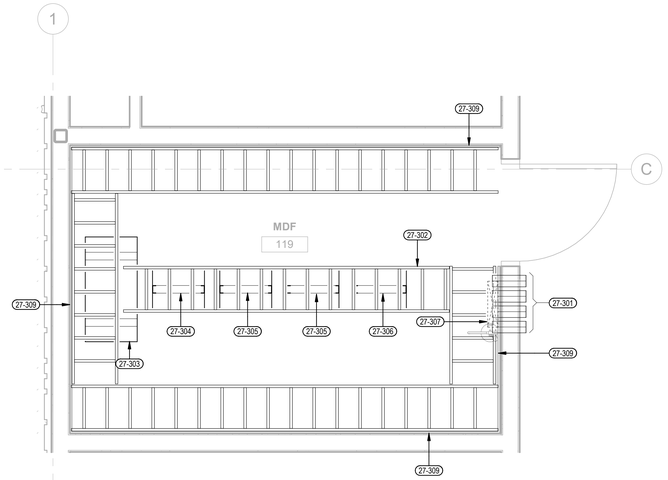
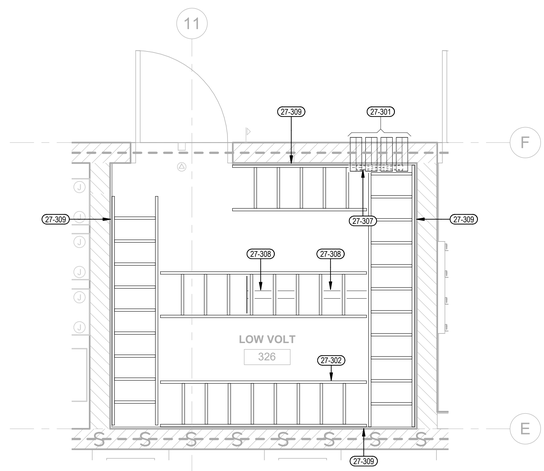


1 MDF ROOM 119 - ENLARGED CABLE TRAY PLAN

SCALE: 1/2" = 1'-0"



2 LOW VOLT RM 326 - ENLARGED CABLE TRAY PLAN

SCALE: 1/2" = 1'-0"

KEY NOTES

27-301 PROVIDE (4) 4" CONDUIT WITH NECESSARY FIRESTOP SEALANT FOR WALL PENETRATION AND BUSHING FOR CABLE PROTECTION.

27-302 PROVIDE (N) 18" WIDE CABLE TRAY WITH ALL THE NECESSARY BONDING AND MOUNTING ACCESSORIES, TYPICAL.

27-303 PROVIDE (N) (1) 4-POST SERVER RACK.

27-304 PROVIDE (N) (2) 2-POST NETWORK RACKS FOR NETWORK / DISPATCH ELECTRONICS.

27-305 PROVIDE (N) (1) 2-POST RACK FOR VESTA (911) ELECTRONICS.

27-306 PROVIDE (N) (1) 2-POST RACK FOR NG911 ELECTRONICS.

27-307 PROVIDE (N) 18" WIDE CABLE TRAY VERTICALLY ORIENTED FOR NETWORK CABLES.

27-308 PROVIDE (N) 2-POST RACK.

27-309 PROVIDE (N) UNUSED 4'X8"X3/4" FIRE RATED PLYWOOD, PAINTED COLOR: "WHITE". CUT PLYWOOD TO FIT LENGTH OF ALL MDF WALLS. RATED PLYWOOD "AC" GRADE SIDE WHALL BE FACING THE INTERIOR OF THE ROOM AND ALL FIRE RATED MARKINGS SHALL NOT BE PAINTED.

GENERAL NOTES

1. PROVIDE FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALL, AND CEILINGS. "THROUGH" PENETRATIONS SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED (CBC 714.4.2). SEE CORRESPONDING DETAIL(S) FOR EACH OF THE FOLOWING TYPES OF PENETRATIONS:
   a. CMU WALL: 2/E-513, 3/E-514, 5/E-514.
   b. METAL STUD WALL: 1/E-513, 2/E-514, 4/E-514.

2. PROVIDE FIRE STOPPING AT ALL MEMBRANE PENETRATIONS (I.E. ELECTRICAL BOXES INSTALLED IN FIRE RATED WALLS) WITH A F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED. SEE DETAIL 1/E-514.

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- S— — —S- / S-·-·-S- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
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TITLE
ENLARGED TECHNOLOGY CABLE TRAY PLANS

SHEET
E-412

V1

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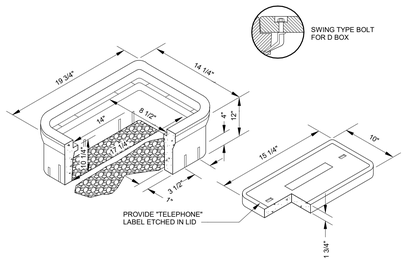
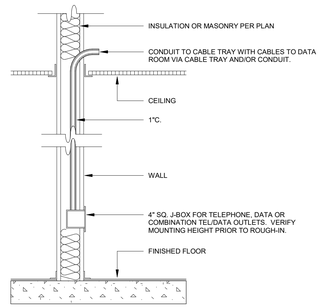


NOTE:

1. PROVIDE WITH CHRISTY #P36X12 12" REINFORCED CONCRETE EXTENSION OR APPROVED EQUAL. (NOT SHOWN)
2. PROVIDE FULL VEHICULAR RAISED BOX AND LID WHERE INSTALLED IN DRIVE AREAS.

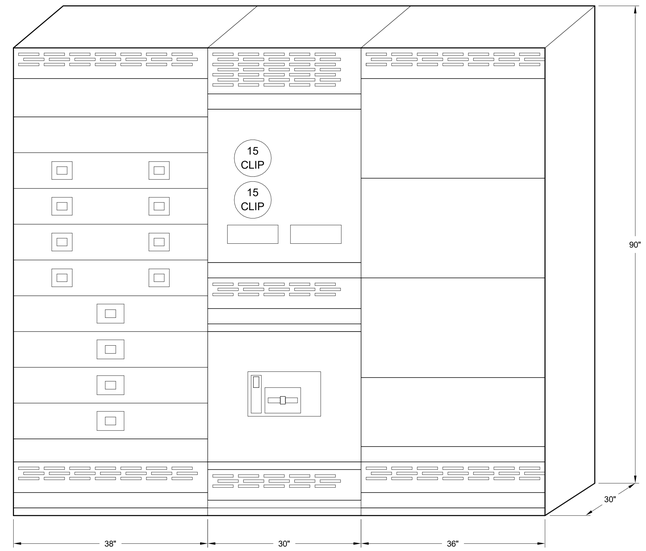
TELEPHONE PULLBOX DETAIL — NTS — 11



TYPICAL DATA & TELEPHONE OUTLET INSTALLATION — NTS — 7

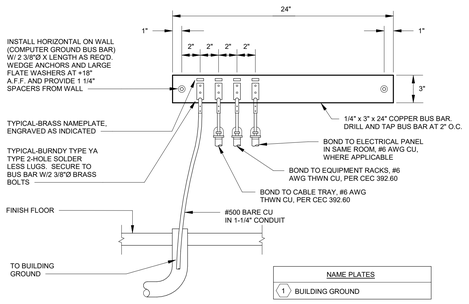
NOTES:

1. DISTRIBUTION BOARD ELEVATIONS AND DIMENSIONS ARE BASED ON EATON DISTRIBUTION BOARD PRODUCTS. IF CONTRACTOR WISHES TO PROVIDE A DIFFERENT MANUFACTURER THAT EXCEEDS THE DIMENSIONS INDICATED IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THAT THE EQUIPMENT FITS IN THE ROOM AND THAT ALL REQUIRED CODE CLEARANCES ARE MET.
2. SEE DETAIL 2 / E-511 FOR MOUNTING DETAILS.



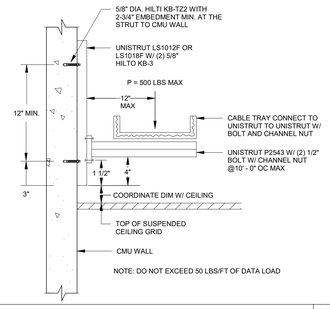
FRONT ELEVATION

MAIN SWITCHBOARD "MSB ELEVATION — NTS — 1

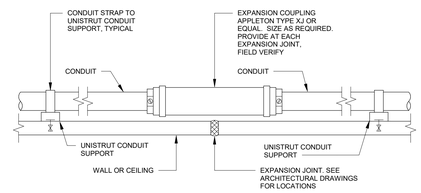


NOTE: GROUND BAR SHALL MEET BICSI / EIA / TIA 607 REQUIREMENTS ORTRONICS # OR-GB2X12TGB OR EQUIVALENT

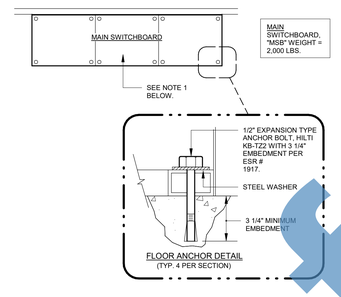
DATA ROOM GROUND BUS DETAIL — NTS — 13



CABLE TRAY SUPPORT DETAIL TO CMU WALL — NTS — 8

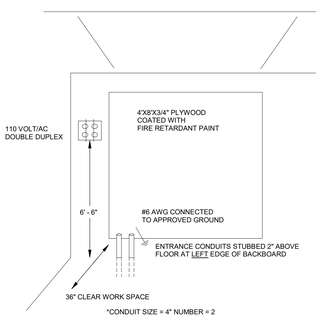


EXPANSION JOINT DETAIL — NTS — 4



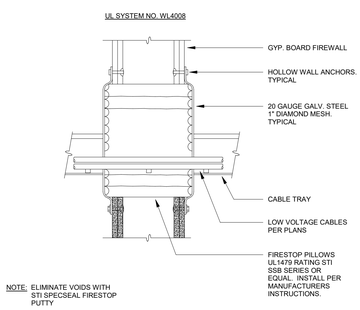
NOTE:
1. SIZE OF EQUIPMENT TO BE VERIFIED WITH CONTRACTOR SHOP DRAWINGS.

SWITCHBOARD EQUIPMENT MOUNTING DETAIL — NTS — 2



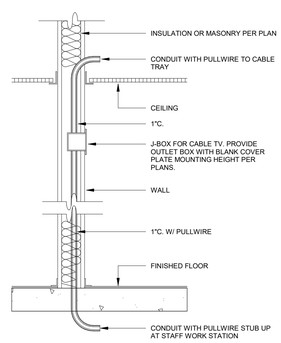
NOTE: GROUNDING SOURCE OPTIONS ARE ELECTRICAL POWER SERVICE GROUNDING ELECTRODE. SERVICE GROUNDING ELECTRODE CONDUCTOR OR SERVICE PANEL, UFER, GROUND RING OR DRIVEN GROUND ROD

TELEPHONE BACKBOARD DETAIL — NTS — 14



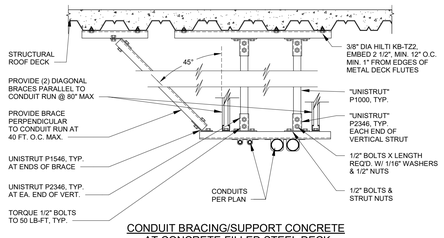
NOTE: ELIMINATE VOIDS WITH STI SPECSEAL FIRESTOP PUTTY

TYPICAL CABLE TRAY FIRE WALL PENETRATION DETAIL — NTS — 9



TYPICAL DAYROOM TV OUTLET INSTALLATION — NTS — 5

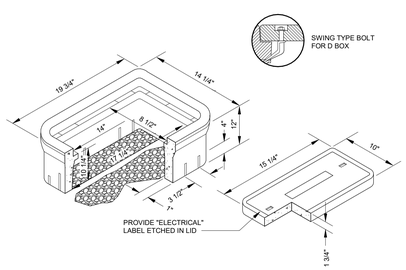
CONDUIT BRACING/ SUPPORT AT BARE STEEL DECK



CONDUIT BRACING/SUPPORT CONCRETE AT CONCRETE-FILLED STEEL DECK

NOTE: DETAIL AS SHOWN IS FOR UP TO TOTAL CONDUIT RUN OF 10 PLF. USE HALF SPACING OF BRACES FOR UP TO 20 PLF.

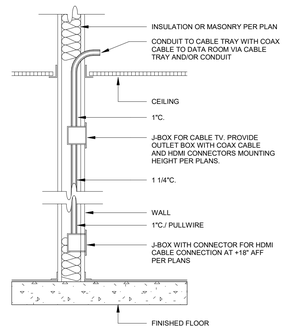
CONDUIT ROOF/FLOOR SEISMIC BRACING/SUPPORT DETAIL — NTS — 3



NOTE:

1. PROVIDE WITH CHRISTY #P36X12 12" REINFORCED CONCRETE EXTENSION OR APPROVED EQUAL. (NOT SHOWN)
2. PROVIDE FULL VEHICULAR RAISED BOX AND LID WHERE INSTALLED IN DRIVE AREAS.

ELECTRICAL PULLBOX DETAIL — NTS — 10



TYPICAL TV OUTLET INSTALLATION — NTS — 6

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SEPTEMBER 11, 2023

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TITLE
ELECTRICAL DETAILS

SHEET
E-511

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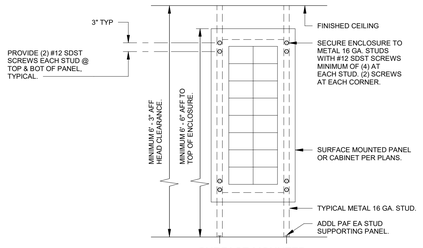
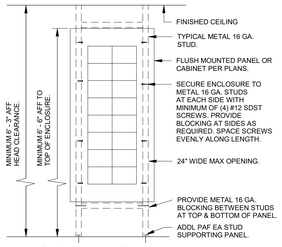


SURFACE MOUNTED
STEEL CONSTRUCTION

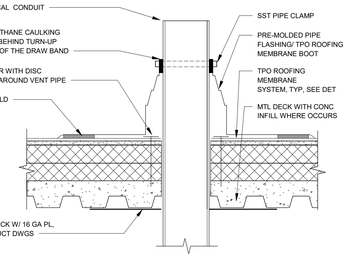


FLUSH & SEMI-FLUSH MOUNTED
STEEL CONSTRUCTION

PANEL WEIGHTS	
PANEL AMPS	WEIGHT
100	125 lbs
225	250 lbs
400	410 lbs
450 - 600	635 lbs
800	768 lbs

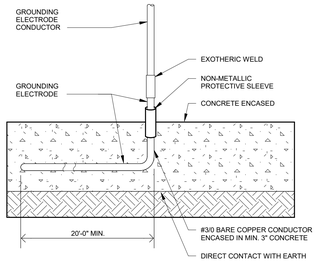
ELECTRICAL PANEL MOUNTING DETAIL — NTS — 8

NOTES:
1. PIPE BOOT AT CONC FILLED STL DECK SHOWN, SIMILAR AT STL DECK W/OUT CONC.
2. FOR PIPES/CONDUIT 8" OR SMALLER

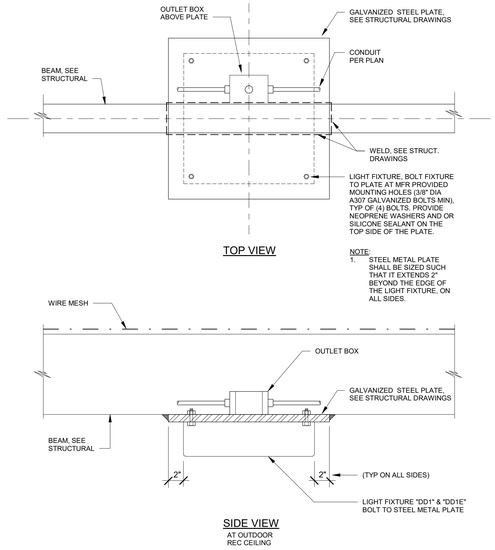


NOTE:
NO REINF REQ FOR OPENING THAT DO NOT CUT WEBS, SEE STRUCT DWGS 3/S-571 FOR ADDITIONAL INFO

ROOF CONDUIT PENETRATION DETAIL — NTS — 4

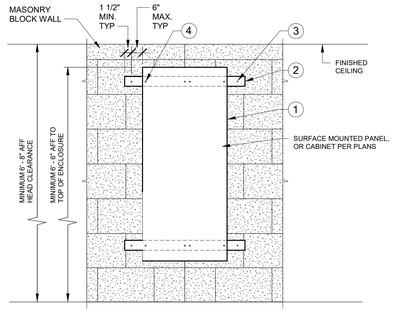


UFER GROUNDING DETAIL — NTS — 5



SURFACE FIXTURE TYPE "DD1" & DD1E" MOUNTING DETAIL — NTS — 1

(#) KEY NOTES:
1. DISTRIBUTION BOARD.
2. (B-LINE) B22 CHANNEL, (TYP).
3. 3/8"Ø HILTI KB-TZ2 ANCHOR WITH 3" NOMINAL EMBEDMENT (TYP 2 EACH CHANNEL).
4. SECURE PANELBOARD TO CHANNEL WITH CHANNEL NUTS AND HEX BOLTS, SIZE AND SPACING PER PANELBOARD MANUFACTURER'S REQUIREMENTS, (TYP).

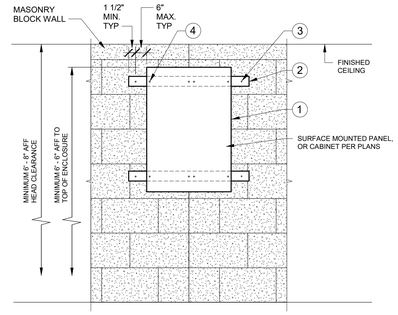


NOTES:
1. USE FENDER WASHER ON ALL BOLTS.
2. SEE PANEL WEIGHTS SCHEDULE.
3. MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO 30 CIRCUIT.
4. REFER TO PANEL SCHEDULE SHEET FOR SIZES OF PANELS.
5. CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = ±50".

DISTRI. PANEL WEIGHTS	
PANEL AMPS	WEIGHT
1200	904 lbs.

ELECTRICAL DISTRIBUTION PANEL MOUNTING AT MASONRY DETAIL — NTS — 9

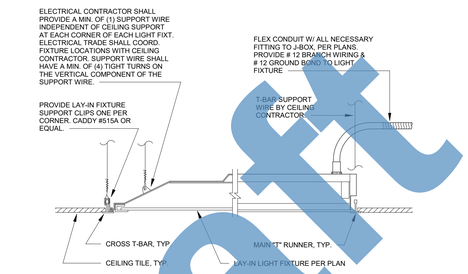
(#) KEY NOTES:
1. PANELBOARD.
2. (B-LINE) B22 CHANNEL, (TYP).
3. 3/8"Ø HILTI KB-TZ2 ANCHOR WITH 3" NOMINAL EMBEDMENT (TYP 2 EACH CHANNEL).
4. SECURE PANELBOARD TO CHANNEL WITH CHANNEL NUTS AND HEX BOLTS, SIZE AND SPACING PER PANELBOARD MANUFACTURER'S REQUIREMENTS, (TYP).



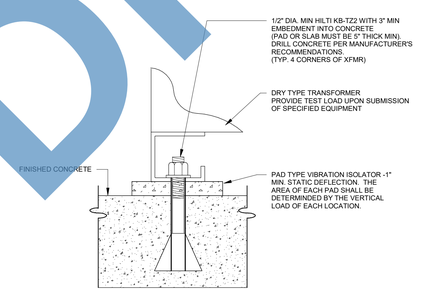
NOTES:
1. USE FENDER WASHER ON ALL BOLTS.
2. SEE PANEL WEIGHTS SCHEDULE.
3. MOUNT TERMINAL CABINETS, J-BOXES, ETC., SIMILAR TO 30 CIRCUIT.
4. REFER TO PANEL SCHEDULE SHEET FOR SIZES OF PANELS.
5. CENTER OF GRAVITY OF CABINET FROM TOP OF FLOOR = ±50".

PANEL WEIGHTS	
PANEL AMPS	WEIGHT
100	125 lbs.
225	250 lbs.
400	410 lbs.
450 - 600	635 lbs.
800	768 lbs.

ELECTRICAL PANEL MOUNTING AT MASONRY DETAIL — NTS — 6



LAY-IN LIGHT FIXTURE MOUNTING DETAIL — NTS — 2



TRANSFORMER ANCHORAGE DETAIL — NTS — 3

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SHEET
E-512
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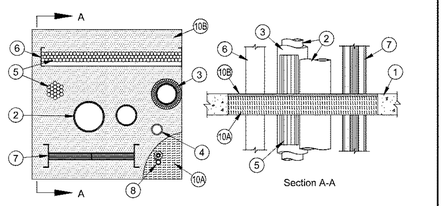
Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 **System No. C-AJ-8113**

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Rating - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through 9)	FT Rating - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through 9)
	FH Rating - 2 Hr
	FTH Rating - 0, 1/4, 1/2, 3/4 and 2 Hr (See Items 2 through 9)



1. **Floor or Wall Assembly** - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 1024 sq in. (0.66 m2) with a max height of 32 in. (813 mm) when installed in a wall or a max width of 32 in. (813 mm) when installed in a floor.

   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. **Metallic Penetrants** - One or more metallic pipes, conduits or tubes to be installed within the opening. Annulus between penetrants is min 0 in. (point contact) to max 24 in. (609 mm). Annulus between penetrants and periphery of opening is 0 in. (point contact) to max 24 in. (609 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

   A. **Steel Pipe** - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

   B. **Iron Pipe** - Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

   C. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing (EMT), or nom 4 in. (102 mm) diam (or smaller) steel Flexible Metal Conduit.

   D. **Copper Pipe or Tube** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe or Type M (or heavier) copper tube.

4. **Nonmetallic Penetrants** - One or more nonmetallic pipes, conduits or tubes to be installed within the opening. Annulus between penetrants and periphery of opening is min 1 in. (25 mm) to max 24 in. (609 mm). Separation between metallic and nonmetallic penetrants is min 6 in. (152 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types and sizes of nonmetallic pipes, conduits or tubing may be used:

   A. **Polyvinyl Chloride (PVC) Pipe** - Nom 2 in. (51 mm) diam (or smaller) solid or cellular core Schedule 40 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

   B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

   C. **Rigid Nonmetallic Conduit+** - Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).

   D. **Electrical Nonmetallic Tubing (ENT)+** - Nom 2 in. (51 mm) diam (or smaller) corrugated wall ENT formed of polyvinyl chloride (PVC) installed in accordance with the National Electrical Code (NFPA 70).

   E. **Optical Fiber Raceway+** - Nom 2 in. (51 mm) diam (or smaller) optical fiber raceway (innerduct). Optical fiber raceway installed in accordance with Article 770 of the National Electrical Code (NFPA 70).

   When item 4 is used, the T Rating of the firestop system is 2 hr.

5. **Cables** - Nom 4 in. (102 mm) diam (or smaller) tight bundle of cables. Annulus between cable bundle and periphery of opening is min 0 in. (point contact) to max 24 in. (609 mm). Separation between cable bundle and metallic or nonmetallic penetrants shall be min 6 in. (152 mm). Cable bundle rigidly supported on both sides of floor or wall assembly. The following types and sizes of cables may be used:

   A. Max 1/C - 1000 kcmil cable with plenum rated, polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and jacket.

   B. Max 7/C - No. 12 AWG cable with PVC-nylon insulation and PVC jacket.

   C. Max 400 pair - No. 24 AWG copper conductor telephone cable with PVC insulation and jacket.

   D. Max RG/U coaxial cables with fluorinated ethylene jacket and insulation.

   E. Multiple fiber optic cables with PVC insulation.

   F. **Through Penetrating Products*** - Max 4/C with ground No. 2/0 AWG **Metal-Clad Cable+.**

   AFC CABLE SYSTEMS INC

   When cables are used, T Rating is 1/2 hr.

6. **Cable Tray** - Max 30 in. (762 mm) wide by max 6 in. (152 mm) deep open ladder cable tray with channel-shaped side rails formed from min 0.060 in. (1.5 mm) thick (No. 16 MSG) galv steel or min 0.060 in. (1.5 mm) thick aluminum with rungs spaced max 9 in. (229 mm) OC. A max of two cable trays may be installed within the opening with a min vertical separation of 4 in. (102 mm) and a min horizontal separation of 1/4 in. (6 mm) between trays. Max vertical or horizontal separation is 24 in. (609 mm). Annulus between the cable tray and the periphery of the opening is min 0 in. (point contact) to max 24 in. (609 mm). Separation between cable tray and metallic or nonmetallic penetrants is min 6 in. (152 mm). Cable trays to be rigidly supported on both sides of the floor or wall assembly. Aggregate cross-sectional area of cables in cable tray not to exceed 40 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within tray. Any combination of the cable types specified in item 5 may be used. **When cable tray is used, T Rating is 1/2 hr.**

7. **Busway+** - Nom 19 in. (483 mm) wide (or smaller) by 6 in. (152 mm) deep "I" shaped aluminum enclosure containing factory-mounted copper bars rated for 600 V, 5000 A or max 26 in. (660 mm) wide by max 6 in. (152 mm) deep "T" shaped aluminum enclosure containing factory-mounted aluminum bars rated for 600 V, 4000 A. A max of two busways may be installed within the opening with a min separation of 1 in. (25 mm) to max 24 in. (609 mm). The annular space between the busway and the periphery of the opening shall be a min 0 in. (point contact) to a max 24 in. (609 mm). Busways spaced min 6 in. (152 mm) from all other penetrants. Busway to be rigidly supported on both sides of floor or wall assembly. The busway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of the National Electrical Code, NFPA 70. **When busway is used, the T Rating is 1/4 hr.**

8. **Air Conditioning (AC) Line Set** - One or more AC line sets installed within opening. Each AC line set consists of two pipes or tubes (Item 8A), tubing insulation (Item 8B) and a thermostat cable (Item 8C). The space between the AC line sets shall be min 2 in. (51 mm). The space between the AC line sets and the periphery of the opening shall be min 0 in. (point contact) to max 24 in. (609 mm). The AC line sets shall be spaced min 6 in. from uninsulated metallic penetrants and shall be rigidly supported on both sides of the floor or wall assembly.

Type of Metallic Penetrant	Max Dim of Through Penetrants, in.(mm)	T Rating, Hr
Steel or Iron Pipe, Conduit	12 (305)	0
Copper Pipe or Tube	6 (152)	0
Steel or Iron Pipe, Conduit or EMT	4 (102)	1/4
Steel or Iron Pipe, Conduit or EMT	2 (51)	1/2
Steel or Iron Pipe, Conduit or EMT	1(25)	3/4

3. **Pipe Insulation** - One or more max 4 in. (102 mm) metallic pipes or tubes may be insulated. Annulus between penetrants is min 0 in. (point contact) to max 24 in. (609 mm). Annulus between penetrants and periphery of opening is 0 in. (point contact) to max 24 in. (609 mm). The annular space between metallic pipes, conduit and tubes and insulated pipes and tubes shall be a min 1/2 in. (13 mm) to max 24 in. (609 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types of pipe insulation may be used:

   A. **Pipe and Equipment Covering Materials*** - Nom 1 in. (25 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. **When Item 3A is used, T Rating is 3/4 Hr.**

   See Pipe and Equipment Covering Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

   B. **Pipe Covering Materials*** - Nom 2 in. (51 mm) thick unfaced mineral fiber pipe insulation having a nom density of 3.5 pcf (56 kg/m3) (or heavier) and sized to the outside diam of the pipe or tube. Pipe insulation secured with min 8 AWG steel wire spaced max 12 in. (305 mm) OC. **When Item 3B is used, T Rating is 2 Hr.**

   INDUSTRIAL INSULATION GROUP L L C - High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT and High Temperature Pipe Insulation Thermaloc

   C. **Sheathing Material*** - Use in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal and transverse joints sealed with metal fasteners or butt tape.

   See **Sheathing Materials** (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

   D. **Tube Insulation-Plastics#+** - Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. **When Item 3D is used, T Rating is 1/2 Hr.**

   See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

   E. **Pipe Covering Materials* - Cellular Glass Insulation** - Nom 2 to 3 in. (51 to 76 mm) thick cellular glass units sized to the outside diam of the pipe or tube and supplied in nom 24 in. (610 mm) long half sections or nom 18 in.(457 mm) long segments. Pipe insulation installed on pipe in accordance with the manufacturer's instructions. **When Item 3E is used, T Rating is 2 Hr.**

   F. **Metal Jacket** - Used in conjunction with Item 3E. Min 12 in. (305 mm) long jacket formed from min 0.010 in. (0.25 mm) thick aluminum sheet cut to wrap tightly around the pipe insulation with a min 2 in. (51 mm) lap and secured using bands and seals of a similar material or min No. 18 AWG steel tie wire. Bands or steel tie wire to be located within 2 in. (51 mm) of each end of the jacket and spaced max 10 in. (254 mm) OC. Jacket installed with edge abutting surface of fill material (Item 9A) on top surface of floor or both surfaces of wall. Metal jacket to be used in addition to any other jacketing material which may be required on the pipe covering.

   G. **Pipe and Equipment Covering Materials*** - Nom 2 to 3 in. (51 to 76 mm) thick hollow cylindrical calcium silicate (min 14 pcf or 224 kg/m3) units sized to the outside diam of the pipe or tube. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. (305 mm) OC. **When Item 3G is used, T Rating is 2 Hr.**

8A. **Through Penetrant** - A max of two pipes or tubes to be installed in each AC line set. Of the two pipes or tubes, only one may have a nom diam greater than 1/2 in. (13 mm). The following types and sizes of through penetrants may be used:

   A. **Steel Pipe** - Nom 1 in. (25 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

   B. **Iron Pipe** - Nom 1 in. (25 mm) diam (or smaller) cast or ductile iron pipe.

   C. **Copper Pipe** - Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

   D. **Copper Tube** - Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tube.

8B. **Tube Insulation - Plastics#** - Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The tube insulation may be installed on one max 3/4 in. (19 mm) diam pipe or tube in each AC line set. The space between the insulated and uninsulated pipes or tubes within each AC line set shall be 0 in. (point contact).

   See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94SVA may be used.

8C. **Cable** - One 4 pair No. 18 AWG (or smaller) thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials may be installed with each AC line set.

   When Item 8 is used, the T Rating of the firestop system is 1/4 hr.

9. **Steel Duct** - (Not Shown) Nom 12 in. (305 mm) diameter (or smaller) No. 30 GA (or heavier) steel duct installed within opening when opening contains no cables or cable tray. A max of two steel ducts may be installed within the through-opening. Ducts to be spaced min 4 in. (102 mm) apart and min 8 in. (203 mm) from insulated penetrants and nonmetallic penetrants. Annulus between the steel duct and the periphery of the opening shall be min 0 in. (point contact) to max 24 in. (0 to 609 mm). Steel ducts to be rigidly supported on both sides of floor or wall assembly. **When steel duct is used, the T Rating is 0 hr.**

10. **Firestop System** - The firestop system shall consist of the following items:

   A. **Packing Material** - Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation tightly packed into opening. Packing material recessed from top surface of floor assembly or from both surfaces of wall or precast concrete units to accommodate the required thickness of fill material.

   B. **Fill, Void or Cavity Materials* - Sealant** - Min 1/2 in. (13 mm) depth of fill material applied within the annulus, flush with top surface of floor assembly or with both surfaces of the wall assembly. Additional fill material forced into interstices of grouped cables and grouped cables within cable trays. At point contact location between through penetrant and concrete, a min 3/8 in. (9.6 mm) diam of fill material shall be applied at through penetrant/concrete interface on top surface of floor or both surfaces of the wall.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

   *** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

   #Bearing the UL Recognized Components Mark

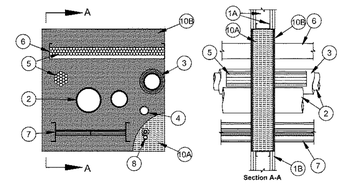
   +Bearing the UL Listing Mark

2-HOUR WALL FIRESTOP SYSTEM - STI # C-AJ-8113 (CONCRETE / CMU WALL)

NTS | 2

Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115 **System No. W-L-8026**

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1 and 2 Hr	F Ratings - 1 and 2 Hr
T Ratings - 0, 1/2, 1, 3/4 and 2 Hr (See Items 2, 3 and 4)	FT Ratings - 0, 1/2, 1, 3/4 and 2 Hr (See Items 2, 3 and 4)
	FH Ratings - 1 and 2 Hr
	FTH Ratings - 0, 1/2, 1, 3/4 and 2 Hr (See Items 2, 3 and 4)



1. **Wall Assembly** - The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

   A. **Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional studs to be installed horizontally to form a rectangular box around the opening.

   B. **Gypsum Board*** - Thickness, type, number of layers and fasteners as specified in the individual Wall and Partition Design. When wood studs are used, interior of through opening to be lined with sheets of gypsum board around entire periphery to a total thickness of 5/8 in. (16 mm) or 1-1/4 in. (32 mm) for 1 or 2 hr wall assemblies, respectively. Max area of opening is 7 ft2 (0.66 m2)with a max height dimension of 32 in. (813 mm).

   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. **Metallic Penetrants** - One or more metallic pipes, conduits or tubes to be installed within the opening. Annulus between penetrants is min 0 in. (point contact) to max 24 in. (609 mm). Annulus between penetrants and periphery of opening is 0 in. (point contact) to max 24 in. (609 mm). Penetrants rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

   A. **Steel Pipe** - Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

   B. **Iron Pipe** - Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.

   C. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) electrical metallic tubing (EMT), or nom 4 in. (102 mm) diam (or smaller) steel Flexible Metal Conduit.

   D. **Copper Pipe or Tube** - Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe or Type M (or heavier) copper tube.

4. **Nonmetallic Penetrants** - One or more nonmetallic pipes, conduits or tubes to be installed within the opening. Annulus between penetrants and periphery of opening is min 1 in. (25 mm) to max 24 in. (609 mm). Separation between metallic and nonmetallic penetrants is min 6 in. (152 mm). Penetrants rigidly supported on both sides of wall assembly. The following types and sizes of nonmetallic pipes, conduits or tubing may be used:

   A. **Polyvinyl Chloride (PVC) Pipe** - Nom 2 in. (51 mm) diam (or smaller) solid or cellular core Schedule 40 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.

   B. **Chlorinated Polyvinyl Chloride (CPVC) Pipe** - Nom 2 in. (51 mm) diam (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.

   C. **Rigid Nonmetallic Conduit+** - Nom 2 in. (51 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA 70).

   D. **Electrical Nonmetallic Tubing (ENT)+** - Nom 2 in. (51 mm) diam (or smaller) corrugated wall ENT formed of polyvinyl chloride (PVC) installed in accordance with the National Electrical Code (NFPA 70).

   E. **Optical Fiber Raceway+** - Nom 2 in. (51 mm) diam (or smaller) optical fiber raceway (innerduct). Optical fiber raceway installed in accordance with the National Electrical Code (NFPA 70).

   When item 4 is used, the T Rating of the firestop system is 2 hr.

5. **Cables** - Nom 4 in. (102 mm) diam (or smaller) tight bundle of cables. Annulus between cable bundle and periphery of opening is min 0 in. (point contact) to max 24 in. (609 mm). Separation between cable bundle and metallic or nonmetallic penetrants shall be min 6 in. (152 mm). Cable bundle rigidly supported on both sides of wall assembly. The following types and sizes of cables may be used:

   A. Max 1/C - 1000 kcmil cable with plenum rated, polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and jacket.

   B. Max 7/C - No. 12 AWG cable with PVC-nylon insulation and PVC jacket.

   C. Max 400 pair - No. 24 AWG copper conductor telephone cable with plenum rated or PVC insulation and jacket.

   D. Max RG/U coaxial cables with plenum rated or fluorinated ethylene jacket and insulation.

   E. Multiple fiber optic cables with plenum rated or PVC insulation.

   F. **Through Penetrating Product*** - Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the **Through Penetrating Product category.**

   See **Through Penetrating Product** (XHLY) category in the Fire Resistance Directory for names of manufacturer.

   When cables are used, T Rating is 1/2 hr.

6. **Cable Tray** - Max 30 in. (762 mm) wide by max 6 in. (152 mm) deep open ladder cable tray with channel-shaped side rails formed from min 0.060 in. (1.5 mm) thick (No. 16 MSG) galv steel or min 0.060 in. (1.5 mm) thick aluminum with rungs spaced max 9 in. (229 mm) OC. A max of two cable trays may be installed within the opening with a min vertical separation of 4 in. (102 mm) and a min horizontal separation of 1/4 in. (6 mm) between trays. Max vertical or horizontal separation is 24 in. (609 mm). Annulus between the cable tray and the periphery of the opening is min 0 in. (point contact) to max 24 in. (609 mm). Separation between cable tray and metallic or nonmetallic penetrants is min 6 in. (152 mm). Cable trays to be rigidly supported on both sides of the wall assembly. Aggregate cross-sectional area of cables in cable tray not to exceed 40 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within tray. Any combination of the cable types specified in Item 5 may be used. **When cable tray is used, T Rating is 1/2 hr.**

7. **Busway+** - Nom 19 in. (483 mm) wide (or smaller) by 6 in. (152 mm) deep "I" shaped aluminum enclosure containing factory-mounted copper bars rated for 600 V, 5000 A or max 26 in. (660 mm) wide by max 6 in. (152 mm) deep "T" shaped aluminum enclosure containing factory-mounted aluminum bars rated for 600 V, 4000 A. , A max of two busways may be installed within the opening with a min separation of 1 in. (25 mm) to max 24 in. (609 mm). The annular space between the busway and the periphery of the opening shall be a min 0 in. (point contact) to a max 24 in. (609 mm). Busways spaced min 6 in. (152 mm) from all other penetrants. Busway to be rigidly supported on both sides of floor or wall assembly. The busway shall bear the UL Listing Mark and shall be installed in accordance with all provisions of the National Electrical Code, NFPA 70. **When busway is used, the T Rating is 1/4 hr.**

8. **Air Conditioning (AC) Line Set** - One or more AC line sets installed within opening. Each AC line set consists of two pipes or tubes (Item 8A), tubing insulation (Item 8B) and a thermostat cable (Item 8C). The space between the AC line sets shall be min 2 in. (51 mm). The space between the AC line sets and the periphery of the opening shall be min 0 in. (point contact) to max 24 in. (609 mm). The AC line sets shall be spaced min 6 in. from uninsulated metallic penetrants and shall be rigidly supported on both sides of the wall assembly.

Type of Metallic Penetrant	Max Diam of Through Penetrants, in.(mm)	T Rating Hr
Steel or Iron Pipe, Conduit	12 (305)	0
Copper Pipe or Tube	6 (152)	0
Steel or Iron Pipe, Conduit or EMT	4 (102)	1/4
Steel or Iron Pipe, Conduit or EMT	2 (51)	1/2
Steel or Iron Pipe, Conduit or EMT	1 (25)	3/4

3. **Pipe Insulation** - (Optional) - One or more max 4 in. (102 mm) metallic pipes or tubes may be insulated. Annulus between penetrants is min 0 in. (point contact) to max 26 in. (660 mm). Annulus between penetrants and periphery of opening is 0 in. (point contact) to max 24 in. (609 mm). The annular space between metallic pipes, conduit and tubes and insulated pipes and tubes shall be a min 1/2 in. (13 mm) to max 24 in. (609 mm). Penetrants rigidly supported on both sides of floor or wall assembly. The following types of pipe insulation may be used

   A. **Pipe and Equipment Covering Materials*** - Nom 1 in. (25 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. **When Item 3A is used, T Rating is 3/4 Hr.**

   See Pipe and Equipment Covering Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

   B. **Pipe Covering Materials*** - Nom 2 in. (51 mm) thick unfaced mineral fiber pipe insulation having a nom density of 3.5 pcf (56 kg/m3) (or heavier) and sized to the outside diam of the pipe or tube. Pipe insulation secured with min 8 AWG steel wire spaced max 12 in. (305 mm) OC. **When Item 3B is used, T Rating is 2 Hr.**

   INDUSTRIAL INSULATION GROUP L L C - High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT and High Temperature Pipe Insulation Thermaloc

   C. **Sheathing Material*** - Use in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal and transverse joints sealed with metal fasteners or butt tape.

   See **Sheathing Materials** (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

   D. **Tube Insulation - Plastics#** - Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. **When Item 3D is used, T Rating is 1/2 Hr.**

   See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.

   E. **Pipe Covering Materials* - Cellular Glass Insulation** - Nom 2 to 3 in. (51 to 76 mm) thick cellular glass units sized to the outside diam of the pipe or tube and supplied in nom 24 in. (610 mm) long half sections or nom 18 in.(457 mm) long segments. Pipe insulation installed on pipe in accordance with the manufacturer's instructions. **When Item 3E is used, T Rating is 2 Hr.**

   PITTSBURGH CORNING CORP - FOAMGLAS

   F. **Metal Jacket** - Used in conjunction with Item 3E. Min 12 in. (305 mm) long jacket formed from min 0.010 in. (0.25 mm) thick aluminum sheet cut to wrap tightly around the pipe insulation with a min 2 in. (51 mm) lap and secured using bands and seals of a similar material or min No. 18 AWG steel tie wire. Bands or steel tie wire to be located within 2 in. (51 mm) of each end of the jacket and spaced max 10 in. (254 mm) OC. Jacket installed with edge abutting surface of fill material (Item 9A) on both surfaces of wall. Metal jacket to be used in addition to any other jacketing material which may be required on the pipe covering.

   G. **Pipe and Equipment Covering Materials*** - Nom 2 to 3 in. (51 to 76 mm) thick hollow cylindrical calcium silicate (min 14 pcf or 224 kg/m3) units sized to the outside diam of the pipe or tube. Pipe insulation secured with stainless steel bands or min 8 AWG stainless steel wire spaced max 12 in. (305 mm) OC. **When Item 3G is used, T Rating is 2 Hr.**

8A. **Through Penetrant** - A max of two pipes or tubes to be installed in each AC line set. Of the two pipes or tubes, only one may have a nom diam greater than 1/2 in. (13 mm). The following types and sizes of through penetrants may be used:

   A. **Steel Pipe** - Nom 1 in. (25 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

   B. **Iron Pipe** - Nom 1 in. (25 mm) diam (or smaller) cast or ductile iron pipe.

   C. **Copper Pipe** - Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

   D. **Copper Tube** - Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tube.

8B. **Tube Insulation - Plastics#** - Nom 3/4 in. (19 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. The tube insulation may be installed on one max 3/4 in. (19 mm) diam pipe or tube in each AC line set. The space between the insulated and uninsulated pipes or tubes within each AC line set shall be 0 in. (point contact).

   See **Plastics** (QMFZ2) category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation meeting the above specifications and having a UL 94 Flammability Classification of 945VA may be used.

8C. **Cable** - One 4 pair No. 18 AWG (or smaller) thermostat cable with polyvinyl chloride (PVC) insulation and jacket materials may be installed with each AC line set.

   When Item 8 is used, the T Rating of the firestop system is 1/4 hr.

9. **Steel Duct** - (Not Shown) Nom 12 in. (305 mm) diameter (or smaller) No. 30 GA (or heavier) steel duct installed within opening when opening contains no cables or cable tray. A max of two steel ducts may be installed within the through-opening. Ducts to be spaced min 4 in. (102 mm) apart and min 8 in. (203 mm) from insulated penetrants and nonmetallic penetrants. Annulus between the steel duct and the periphery of the opening shall be min 0 in. (point contact) to max 24 in. (0 to 609 mm). Steel ducts to be rigidly supported on both sides of wall assembly. **When steel duct is used, the T Rating is 0 hr.**

10. **Firestop System** - The firestop system shall consist of the following items:

   A. **Packing Material** - Min 4 pcf (64 kg/m3) mineral wool batt insulation tightly packed into opening to full depth of the wall. Packing material recessed from both surfaces of wall to accommodate the required thickness of fill material.

   B. **Fill, Void or Cavity Materials*-Sealant** - Min 1/2 in. (13 mm) depth of fill material applied within the annulus, flush with both surfaces of the wall assembly. Additional fill material forced into interstices of grouped cables and grouped cables within cable trays. At point contact location between through penetrant and gypsum wallboard, a min 3/8 in. (10 mm) diam bead of fill material shall be applied at through penetrant/gypsum board interface on both surfaces of the wall.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

   *** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

   #Bearing the UL Recognized Components Mark

   +Bearing the UL Listing Mark

1 OR 2-HOUR WALL FIRESTOP SYSTEM - STI # W-L-8026 (METAL STUD WALL)

NTS | 1

Draft

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

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AGENCY

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PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
ELECTRICAL DETAILS

SHEET
E-513

V1

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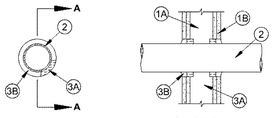
to ASTM/UL1479 (ASTM E814)

System No. W-L-1029

(Formerly System No. 467)
F Ratings - 1 and 2 Hr (See Item 1B)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



Section A-A

1. **Wall Assembly** - The 1 or 2 hr fire rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 and U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** - Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. **Gypsum Board*** - 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 6 in.

   The hourly F rating of this firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Through Penetrants** - One metallic pipe, conduit or tubing to be centered within the firestop system. A nom annular space of 3/4 in. is required within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. **Steel Pipe** - Nom 4 in. diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. **Conduit** - Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
   C. **Copper Tubing** - Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   D. **Copper Pipe** - Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.
3. **Firestop System** - The firestop system shall consist of the following:
   A. **Packing Material** - Min 1 in. thickness of min 3.5 pcf fiberglass insulation shall be wrapped around the through-penetrant and secured together by means of No. 24 AWG steel tie wire. Packing material shall be centered at mid-depth of opening and recessed from both surfaces of wall assembly required to accommodate the required thickness of fill material.
   B. **Fill, Void or Cavity Material*** - **Caulk or Putty** - In 2 hr fire rated assemblies min 3/4 in. thickness fill material applied within the annulus, flush both surfaces of wall. Additional fill material to be installed such that a min 1/4 in. crown is formed around the penetrating item. In 1 hr fire-rated assemblies, min 5/8 in. thickness of fill material applied within annulus on both surfaces of wall. Additional fill material to be installed such that a min 3/8 in. crown is formed around the penetrating item and lapping 1 in. beyond the periphery of the opening.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant, SpecSeal LCI Sealant or SpecSeal Putty

   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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W-L-1029
PAGE 1 OF 1

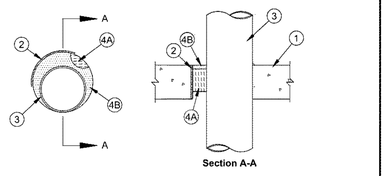
1 OR 2-HOUR WALL FIRESTOP SYSTEM - STI # W-L-1029 (METAL STUD WALL)

NTS | 4

Classified by
Underwriters Laboratories, Inc.
to ANSI/UL 1479 (ASTM E814) and CAN/ULC S115

System No. C-AJ-1353

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 3 Hr	F Rating - 3 Hr
T Rating - 0 Hr	FT Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 3 Hr
L Rating At 400 F - Less Than 1 CFM/sq ft	FTH Rating - 0 Hr
	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - Less Than 1 CFM/sq ft



Section A-A

1. **Floor or Wall Assembly** - Lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete floor or wall. Min thickness of concrete is shown in table in Item 4B. Floor may also be constructed of any min 6 in. (152 mm) thick hollow-core **Precast Concrete Units***. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max diam of opening is 14 in. (356 mm). Max diam of opening in floors constructed of hollow-core is 7 in. (178 mm).
   See **Concrete Blocks** (CAZT) or **Precast Concrete Units** (CFTV) categories in the Fire Resistance Directory for names of manufacturers.
2. **Steel Sleeve** - (Optional) - Nom 14 in. (356 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe or No. 26 ga (0.022 in. or 0.56 mm thick) sheet steel sleeve with square anchor flange spot welded to the sleeve at approx mid-height. Sleeve cast or grouted in place flush with floor or wall surfaces. Steel pipe sleeve may project a max of 2 in. (51 mm) beyond the floor or wall surfaces.
3. **Through Penetrant** - One metallic pipe, conduit or tube to be installed eccentrically or concentrically within the firestop system. The annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 in. (point contact). The max annular space is 1 in. or 2 in. (25 or 51 mm) as shown in the table in Item 4B . Pipe, conduit or tube to be rigidly supported on both sides of the floor or wall assembly. The following types and sizes of metallic pipes, conduits and tubes may be used:
   A. **Steel Pipe** - Nom 12 in. (305 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.
   B. **Iron Pipe** - Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Conduit** - Nom 6 in. (152 mm) diam (or smaller) rigid steel conduit, nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT) or nom 4 in. (102 mm) diam (or smaller) flexible steel conduit.
   D. **Copper Pipe** - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
   E. **Copper Tube** - Nom 4 in. (102 mm) diam (or smaller) Regular L (or heavier) copper tube.

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C-AJ-1353
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3A. **Through Penetrating Product*** - **Flexible Metal Piping** - As an alternate to Item 3, one nom 2 in. (51 mm) diam (or smaller) flexible steel pipe (with or without plastic jacketing) to be installed either concentrically or eccentrically within the firestop system. The annular space between the pipe, conduit or tube and the periphery of the opening shall be min 0 in. (0 mm or point contact). The max annular space is 1 or 2 in. (25 or 51 mm) as shown in the table in Item 4B. Pipe to be rigidly supported on both sides of the floor or wall assembly.

   OMEGA FLEX INC

   GASTITE, DIV OF TITEFLEX

   WARD MFG L L C
4. **Firestop System** - The firestop system shall consist of the following:
   A. **Packing Material** - When required as shown in the table in Item 4B, min 4 pcf (64 kg/m3) mineral wool batt insulation compressed and tightly packed to min 2-1/4 in. (57 mm) thickness. Packing material recessed from top surface of floor or both surfaces of wall as required to accommodate fill material (Item 4B). When packing material is shown as being optional, mineral wool or glass fiber insulation or polyethylene foam backer rod may be used as a permanent form to facilitate installation of the fill material. In floors constructed of hollow-core precast concrete units, packing material to be recessed from both top and bottom surfaces of floor, as required to accommodate fill material (Item 4B). When steel sleeve projects from top of floor or from both sides of wall, the thickness of mineral wool batt packing material should be increased by an amount equal to the distance that the sleeve extends past the floor or wall surface.
   B. **Fill, Void or Cavity Material*** - **Sealant** - Fill material applied within annulus, flush with top surface of floor assembly or top edge of steel sleeve. In walls and in floors constructed from hollow core precast concrete units, fill material applied symmetrically on both sides of assembly flush with wall/floor surfaces or both ends of steel sleeve. At point contact location, apply min 1/4 in. (6 mm) diam bead of fill material at pipe/concrete interface or pipe/steel sleeve interface on top surface of floor or both surfaces of wall or precast concrete units. The fill material thickness shall be as specified in the following table:

Min Concrete Thickness in. (mm)	Steel Sleeve	Max Annular Space, in. (mm)	Packing Material	Min Fill Material Thickness in. (mm)	F Rating
2-1/2 (64)	Optional	2 (51)	Required	1/4 (6)	3 hr
4-1/2 (114)	Optional	1 (25)	Optional	1/2 (13)	2 hr

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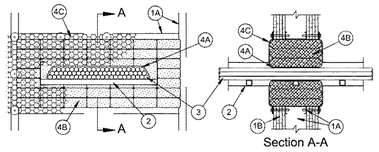
3-HOUR WALL FIRESTOP SYSTEM - STI # C-AJ-1353 (CONCRETE / CMU WALL)

NTS | 3

Classified by
Underwriters Laboratories, Inc.
to ASTM/UL1479 (ASTM E814)

System No. W-L-4076

F Ratings - 3 and 4 Hr (See Item 1B)
T Ratings - 3/4 and 1 Hr (See Item 3)



Section A-A

1. **Wall Assembly** - The 3 or 4 hr fire rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs** - Wall framing shall consist of steel channel studs. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members to be installed in stud cavity containing the through-penetrating item to form a rectangular box around the penetrant.
   B. **Gypsum Board*** - Multiple layers of min 1/2 in. (13 mm) thick gypsum board. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 228 sq in. with max dimension of 22-3/4 in.

   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. **Cable Tray*** - Max 18 in. (457 mm) wide by max 4 in. (102 mm) deep open ladder cable tray with channel-shaped side rails formed from 0.060 in. (1.52 mm) thick (No. 16 gauge) galv steel with nom 1 in. (25 mm) diam rungs spaced 9 in. (229 mm) OC or max 18 in. (457 mm) wide by max 4 in. (102 mm) deep open ladder cable tray with channel-shaped side rails formed from 0.060 in. (1.52 mm) thick aluminum with nom 1 in. (25 mm) diam rungs spaced 9 in. (229 mm) OC. The annular space between the cable tray and the periphery of the opening shall be min 1 in. (25 mm) to max 4 in. (102 mm). Cable tray to be rigidly supported on both sides of wall assembly.
3. **Cables** - Aggregate cross-sectional area of cables in cable tray to be max 39 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within the cable tray. Any combination of the following types and sizes of copper conductor cables may be used:
   A. Max 400 pair No. 24 AWG (or smaller) copper conductor cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 1/C -750 kcmil (or smaller) copper conductor cable with XLPE or PVC insulation and XLPE or PVC jacket.
   C. Max RG59/U (or smaller) coaxial cable with fluorinated ethylene insulation and jacketing.
   D. Max 3/C - No. 2 AWG (or smaller) copper conductor cable with PVC insulation and jacketing.
   E. Max 7/C - No. 12 AWG (or smaller) copper conductor cable with PVC-nylon insulation and PVC jacketing.
   F. Max 62.5/125 micron fiber optic cable with PVC insulation and jacketing.
   G. Max 4 pair No. 24 AWG (or smaller) copper conductor data cable with PVC (plenum or non-plenum grade) insulation and jacketing.
   H. Max 4/C No. 10 AWG (or smaller) copper or aluminum conductor aluminum or steel Metal-Clad# or Armored-Clad# cable.
   I. Max 3/C No. 2/0 AWG (or smaller) TEK cable with copper or aluminum conductors and aluminum or steel jacket with or without PVC jacketing.

   The T Rating for Item A is 3/4 hr. Otherwise, the T Rating is 1 hr.
4. **Firestop System** - The firestop system shall consist of the following:
   A. **Fill, Void or Cavity Material*** - **Putty** - Prior to installation of pillows (Item 4B), putty applied to seal any voids between the cables, between the cables and the pillows and between the cable tray and the pillows on both sides of the wall assembly. Nom 3/16 in. (5 mm) thickness of putty applied to top of cables within cable tray. Putty width equal to thickness of wall.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Putty
   B. **Fill, Void or Cavity Material*** - **Pillows** - Max 9 in. (229 mm) long by 6 in. (152 mm) wide by 3 in. (76 mm) thick plastic covered intumescent pillows. Pillows to be installed lengthwise through the opening and positioned to extend equally in both directions from the approximate center line of the wall. Pillows tightly packed (min 30 percent compression) into opening to fill the annular space between cables and periphery of opening and between cable tray and periphery of opening.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Firestop Pillows
   C. **Wire Mesh** - Nom 1 in. (25 mm) hexagonal shaped wire mesh fabricated from min No. 20 SWG galv steel wire used to retain pillows in wall opening. Wire mesh cut to fit the contour of the opening with a min 2 in (51 mm) lap beyond the periphery of the opening. Wire mesh secured to steel framing, through the gypsum board, on both surfaces of wall assembly with min 3 in. (76 mm) long steel screws in conjunction with 1/4 in. (6 mm) by 1-1/4 in. (32 mm) diam steel fender washers, spaced max 6 in. (152 mm) OC. The joints within the wire mesh shall overlap a min of 2 in. (51 mm) and shall be secured together by means of No. 20 AWG steel wire ties spaced max 6 in. (152 mm) OC.

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W-L-4076
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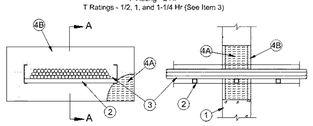
3 OR 4HR WALL - CABLE TRAY PENETRATION - STI # W-L-4076 (METAL STUD WALL)

NTS | 2

Classified by
Underwriters Laboratories, Inc.
to ASTM/UL1479 (ASTM E814)

System No. W-J-4065

F Rating - 2 Hr
T Ratings - 1/2, 1, and 1-1/4 Hr (See Item 3)



Section A-A

1. **Wall Assembly** - Min 5 in. (127 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. Wall may also be constructed of any UL Classified **Concrete Blocks***. Max area of opening is 270 sq in. (0.17 m2) with max dimensions of 30 in. (762 mm).
   See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of Manufacturers.
2. **Cables Tray*** - Max 18 in. (457 mm) wide by max 5 in. (127 mm) deep open ladder cable tray with channel-shaped side rails formed of min 0.069 in. (1.8 mm) thick aluminum and with 1 in. (25 mm) wide by 7/8 in. (22 mm) deep rungs spaced 9 in. (228 mm) OC. One cable tray to be installed in the opening. The annular space between the cable tray and the periphery of the opening shall be min 0 in. (0 mm) (point contact) to max 10 in. (254 mm). Cable tray to be rigidly supported on both sides of wall assembly.
3. **Cables** - Aggregate cross-sectional area of cables in cable tray to be max 39 percent of the cross-sectional area of the cable tray based on a max 3 in. (76 mm) cable loading depth within the cable tray. Any combination of the following types and sizes of cables may be used:
   A. Max 1/C - 750 kcmil copper conductor cable with a cross-linked polyethylene jacket (XLPE).
   B. Max 3/C - No. 2 AWG copper conductor cable XLPE insulation and polyvinyl chloride (PVC) jacket.
   C. Max 7/C - No. 12 AWG copper conductor cable with PVC insulation and jacket.
   D. Max 2/C - No. 16 AWG copper conductor cable with PVC insulation and jacket.
   E. Max 400 pair No. 24 AWG copper conductor cable with PVC or plenum rated insulation and jacket
   F. Coaxial cable with copper conductor having a nom diam of 5/8 in. (16 mm) or smaller with fluorinated ethylene jacket and insulation.
   G. Fiber optic cable having a nom diam of 5/8 in. (16 mm) or smaller with PVC or plenum rated jacket and insulation.
   H. Max 4/C No. 2/0 aluminum or copper conductor aluminum or steel **Metal-Clad**** or **Armored-Clad**** cable.

   The T Rating for Items 3A and 3H is 1/2 hr. The T Ratings for Item 3B, 3C, 3D, and 3E is 1 hr. The T Rating for Items 3F, 3G, and 3E when the max pair count is 25 is 1-1/4 hr.
4. **Firestop System** - The firestop system shall consist of the following:
   A. **Packing Material** - Min 4 pcf (64 kg/m3) mineral wool batt insulation tightly-packed to full depth of wall. Packing material to be recessed from both surfaces of wall as required to accommodate the required thickness of fill material.
   B. **Fill Void or Cavity Material*** - **Sealant** - Min 5/8 in. (16 mm) thickness of fill material applied within the annulus on both surfaces of wall. Fill material to be forced into interstices of cable group to max extent possible. At point contact, apply min 1/2 in. (13 mm) diam bead at cable tray/concrete wall interface on both sides of wall.

   SPECIFIED TECHNOLOGIES INC - SpecSeal LCI Sealant

   * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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2 HOUR WALL - CABLE TRAY PENETRATION - STI # W-J-4065 (CONCRETE/CMU WALL)

NTS | 5

CLIV.R14288

Wall-opening Protective Materials

SpecSeal Power Shield Box Inserts , for use with flush device UL Listed Metallic Outlet Boxes without internal clamps installed with steel mud rings in framed wall assemblies. When protective material is used in outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). The max outlet box dimensions, hourly rating, type of stud, use of stud cavity insulation and type of faceplate are tabulated below. Additional general construction features shall comply as follows:

A. Studs - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).
B. Stud Cavity Insulation - Where indicated in the table below, stud cavity insulation to consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m3) or mineral fiber (min 4 pcf or 64 kg/m3). Unless indicated as required, stud cavity insulation is optional.
C. Wall Design - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400 or V400 Series Wall and Partition Design in the Fire Resistance Directory.
D. Pad Dimensions - The minimum dimensions of the insert pad are shown in the table below. Pads may be cut to achieve dimensions shown in table and partial insert pads may be utilized.

Product	Max Outlet Box Size, in. (mm)	Outlet Box Type	Outlet Box Mfr	Pad Size, in. (mm)	Rating, hr	Stud	Cavity Insulation	Face Plate Type	Putty Ball
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	2	Steel	No	Steel	-
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	2	Steel	Yes	Plastic	-
EP 23	2 x 3 x 2-1/4 (51 x 76 x 57) deep	-	-	1-7/8 x 2-3/4 (48 x 70)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	2	Steel	No	Steel	-
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	2	Steel	Yes	Plastic	-
EP 24	2-1/8 x 4 x 2-1/8 (54 x 102 x 54) deep	-	-	1-7/8 x 3-3/4 (48 x 95)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	2	Steel	No	Steel	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	-	3-3/4 x 3-3/4 (95 x 95)	2	Steel	Yes	Plastic	-
EP 44	4 x 4 x 2-1/8 (102 x 102 x 54) deep	-	--	3-3/4 x 3-3/4 (95 x 95)	1	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-11/16 x 4-11/16 x 2-1/8 (119 x 119 x 54) deep	-	-	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-1/2 x 5 x 2-3/8 (114 x 127 x 60) deep	-	-	4-1/2 x 4-1/2 (114 x 114)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-
EP 45	4-1/2 x 14 x 2-1/2 (114 x 127 x 60) deep	-	-	4-1/2 x 13-3/4 (114 x 349)	1 or 2	Steel or Wood	Yes	Plastic or Steel	-

SpecSeal Putty Pads , for use with flush device U L Listed Metallic Outlet Boxes installed with steel mud rings or UL Listed Nonmetallic Outlet Boxes in framed wall assemblies. When protective material is used on outlet boxes on both sides of the wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the boxes are not installed back-to-back. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. When nonmetallic box is used with Type NM cables, min 3/16 in. (5 mm) thickness of putty shall be formed around the cable at its connection to the box and extending a min of 1 in. (25 mm). The box composition, max device dimensions, hourly rating, type of stud and type of faceplate are tabulated below. Additional general construction features shall comply as follows:

A. Studs - Unless otherwise specified, the minimum stud width is 3-1/2 in. (89 mm).
B. Stud Cavity Insulation - Unless indicated as required, stud cavity insulation is optional and may consist of min 3-1/2 in. (89 mm) thick fiberglass (min 0.5 pcf or 8 kg/m3) or mineral fiber (min 4 pcf or 64 kg/m3).
C. Wall Design - Stud composition is indicated in the table below. Wall construction shall comply with the individual U300, U400 or V400 Series Wall and Partition Design in the Fire Resistance Directory.
D. Metallic Outlet Boxes - Except as indicated in the table below, when steel outlet boxes are used and the boxes are interconnected by means of electrical metallic tube or conduit, a ball of putty is to be installed to plug the open end of each electrical metallic tube (EMT) or conduit within the outlet box. When MC cable is used and/or when the outlet boxes are not interconnected, the ball of putty is not required.
E. Nonmetallic Outlet Boxes - The box manufacturer is indicated in the table below, shall bear a 2 hr rating under the "Outlet Boxes and Fittings Classified for Fire Resistance" category in the Fire Resistance Directory.

Model	Max Outlet Box in. (mm)	Outlet Box Type	Outlet Box Mfr	Pad Size in. (mm)	Rating, hr	Stud	Cavity Insulation	Face Plate Type	Putty Ball
-	4 x 4 x 2-1/8 (102 x 102 x 54) deep	Steel	N.A.	-	1	Steel or Wood	-	Steel	No
-	4 x 4 x 2-1/8 (102 x 102 x 54) deep	Steel	N.A.	-	1	Steel or Wood	-	Plastic	Yes
-	4-11/16 x 4-11/16 x 2-1/8 (119 x 119 x 54) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	4-1/2 x 5 x 2-3/8 (114 x 127 x 60) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	4-1/2 x 14 x 2-1/2 (114 x 127 x 60) deep	Steel	N.A.	-	1 or 2	Steel or Wood	-	Steel	Yes
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Polyvinyl Chloride	Lamson & Sessions or Carlon	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Phenolic	Allied Moulded Prods	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Polycarbonate	Thomas & Betts	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	3-3/4 x 4 x 3 (95 x 102 x 76) deep	Phenolic	Thomas & Betts	-	1 or 2	Wood	-	Plastic or Steel	N.A.
-	2-1/4 x 3-3/4 x 2-3/4 (57 x 95 x 70) deep	Polyvinyl Chloride	Pass & Seymour	-	1 or 2	Wood	-	Plastic or Steel	N.A.

SpecSeal Putty Pads , for use with maximum 4 by 4 by 2-1/8 in. (102 by 102 by 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 5-1/2 in. (140 mm) wide wood or steel studs and with stud cavities filled with fiberglass from 0.5 pcf or 8 kg/m3) or mineral fiber (nom 4 pcf or 64 kg/m3) insulation. When protective material is used on outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the boxes on opposite sides of the wall are not interconnected, the open end of the conduit within the outlet box is filled with a ball of putty. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box.

SpecSeal EP23, EP24 and EP44 Power Shield Box Inserts and SpecSeal Putty Pads , for use both maximum 4 by 4 by 2-1/8 or 2-1/8 in. (102 by 102 by 38 or 54 mm) deep flush device UL Listed Metallic Outlet Boxes installed with steel mud rings and with steel or plastic faceplates in 1 hr or 2 hr fire rated gypsum board wall assemblies constructed with min 3-1/2 in. (89 mm) wide wood or steel studs. When both protective materials are used with outlet boxes on both sides of the wall as directed, the boxes may be installed back-to-back provided that the backs of the boxes are minimum 1/2 in. (13 mm) apart and provided that the boxes are not interconnected. Installation shall comply with the National Electrical Code (NFPA 70). Min 3/16 in. (5 mm) thick moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud) and to completely seal against the stud within the stud cavity. Adjoining pieces of moldable putty pads to be overlapped approx 1/2 in. (13 mm) at the seam. An additional 3/16 in. (5 mm) thickness of putty to be formed around the connector securing the end of each Type MC cable, electrical metallic tube (EMT) or conduit to the box. An insert pad shall be installed to completely cover the back inside surface of each outlet box.

SpecSeal Putty Pads , for use with max 5 by 5 by 2 7/8 in. (127 by 127 by 73 mm) deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communication-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. (92 mm) wide wood or steel studs and constructed as specified in the individual U300, U400, or V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc. Moldable putty pads are to be installed to completely cover the exterior surfaces of the outlet box (except for the side of the outlet box against the stud unless otherwise noted) including mating tabs and to completely seal against the stud within the stud cavity. Multiple moldable putty pads may be installed on an outlet box to attain the required minimum thickness of putty material. Additional putty material used to seal around each conduit and/or cable fitting on the exterior of each box. A min 3/16 in. (4.8 mm) thickness of putty material is required on the exterior surfaces of flush device boxes in 1 and 2 hr fire rated Wall and Partition Designs. When the moldable putty and outlet box protective material is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the outlet boxes are not installed back to back, except as noted.

SpecSeal EP55 Power Shield Box Inserts , for use with max 5 by 5 by 2 7/8 in. (127 by 127 by 73 mm) deep flush device UL Listed Metallic Outlet Boxes or UL Listed Communication-Circuit Accessories manufactured by Randl Industries Inc for use in 1 hr or 2 hr fire rated gypsum board wall assemblies framed with min 3-5/8 in. (92 mm) wide wood or steel studs and constructed as specified in the individual U300, U400, or V400 or W400 Series Wall and Partition Designs in the Fire Resistance Directory. Metallic outlet boxes to be provided with UL Listed Signal Appliance with steel cover plate manufactured by Cooper Wheelock Inc. Power Shield Box Insert is to be applied to the back surface of the box and may be slit to accommodate communications-circuit accessories. When the Power Shield Box Insert is used on boxes on both sides of wall as directed, the horizontal separation between outlet boxes on opposite sides of the wall may be less than 24 in. (610 mm) provided that the outlet boxes are not installed back to back, except as noted.

ELECTRICAL BOXES FIRESTOP PROTECTIVE MATERIALS

NTS | 1

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2025 Nineteenth Street
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CONSULTANT

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
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www.lpengineers.com
Job #: 18-2115

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REGISTERED PROFESSIONAL ENGINEER
CHRISTIAN PADURARIU
19533
EXP. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

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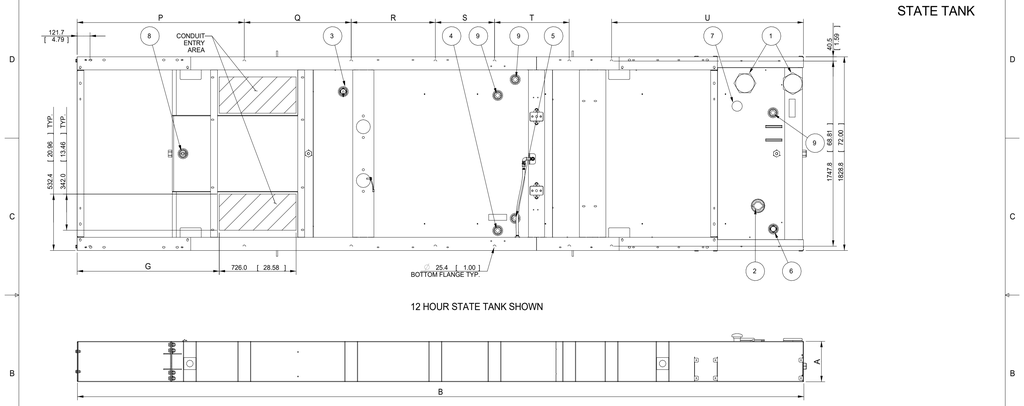


REFER TO SEISMIC ADV FOR IBC/OSHPD SEISMIC MOUNTING LOCATIONS

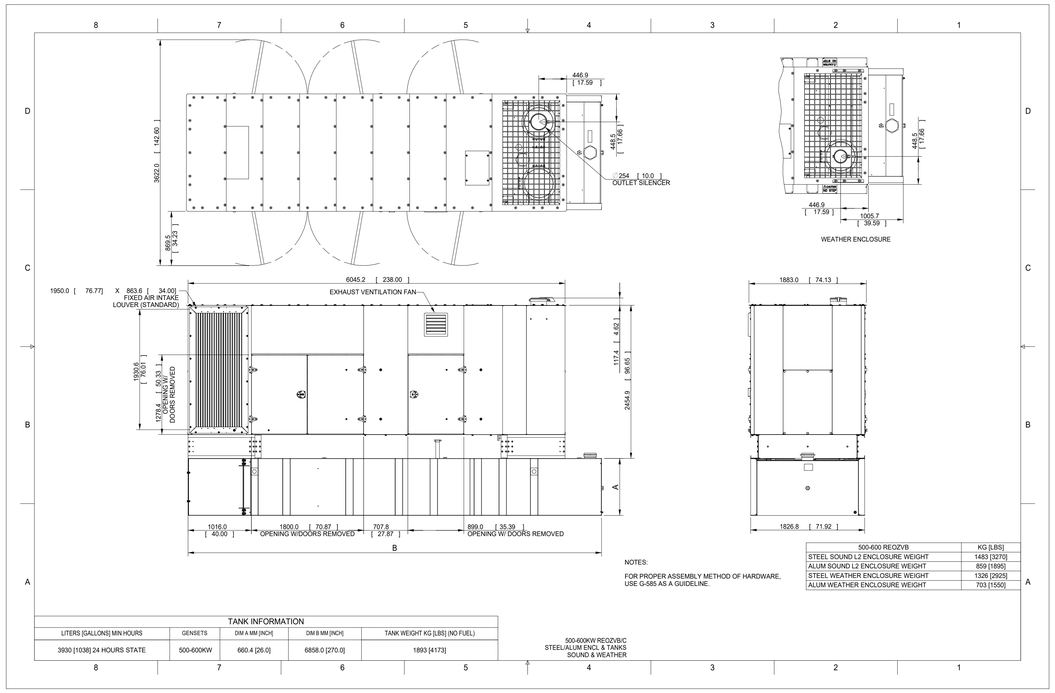
TANK INFORMATION										JUNCTION BOX			
										G			
										500-550 KW		600 KW	
LITERS [GALLONS] MIN HOURS	A	B	P	Q	R	S	T	U	WEIGHT KG [LBS]	5M4024, 5M4027 5M4028, 5M4030 5M4162, 5M4270 5M4272	5M4032 5M4164	5M4030 5M4272	5M4032 5M4164 5M4276
3930 [1038] 24 HOURS	660.4 [26.0]	6858.0 [270.0]	1578.2 [62.1]	1009.5 [39.7]	794.0 [31.3]	559.0 [22.0]	705.2 [27.8]	1812.1 [71.3]	1893 [4173]	1341.3 [52.8]			

2039 L [538 GAL.] 12 HOUR TANK SHOWN.

ITEM	DESCRIPTION
9	PLUG, PIPE (2" NPT)
8	SWITCH, FUEL IN BASIN TOP MTD, 2"
7	VENT, NORMAL
6	GAUGE, FUEL LEVEL, DIRECT READ
5	RETURN, FUEL
4	SUPPLY, FUEL
3	GAUGE, FUEL LEVEL, W/ SENDER
2	FILL CAP, 2" LOCKABLE W/PIPE RISER
1	CAP, EMERGENCY VENT

12 - 48 HOUR 500-600KW REOZVB/C GENSET & STATE TANKS WITH SOUND OR WEATHER ENCLOSURE

GENERATOR BASE FUEL TANK DETAIL | NTS | 3



TANK INFORMATION				
LITERS [GALLONS] MIN HOURS	GENSETS	DIM A MM [INCH]	DIM B MM [INCH]	TANK WEIGHT KG [LBS] (NO FUEL)
3930 [1038] 24 HOURS STATE	500-600KW	660.4 [26.0]	6858.0 [270.0]	1893 [4173]

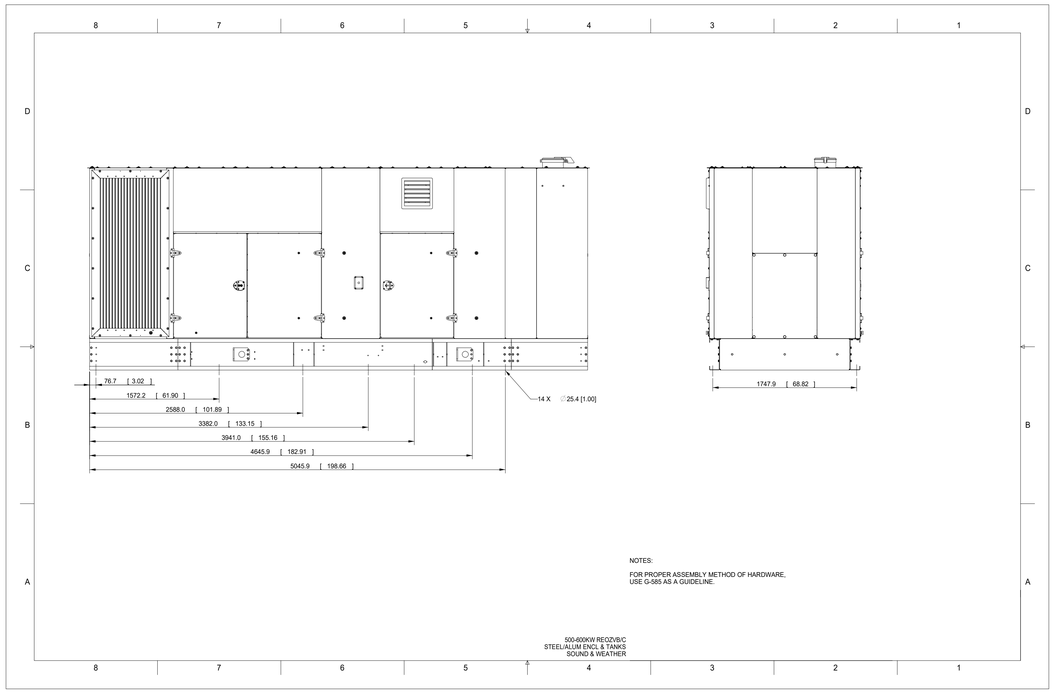
500-600KW REOZVB/C STEEL/ALUM ENCL. & TANKS SOUND & WEATHER

NOTES:

FOR PROPER ASSEMBLY METHOD OF HARDWARE, USE G-585 AS A GUIDELINE.

500-600 REOZVB	KG [LBS]
STEEL SOUND L2 ENCLOSURE WEIGHT	1483 [3270]
ALUM SOUND L2 ENCLOSURE WEIGHT	859 [1895]
STEEL WEATHER ENCLOSURE WEIGHT	1326 [2925]
ALUM WEATHER ENCLOSURE WEIGHT	703 [1550]

GENERATOR ENCLOSURE AND SUB-BASE FUEL TANK ELEVATION DETAIL | NTS | 1

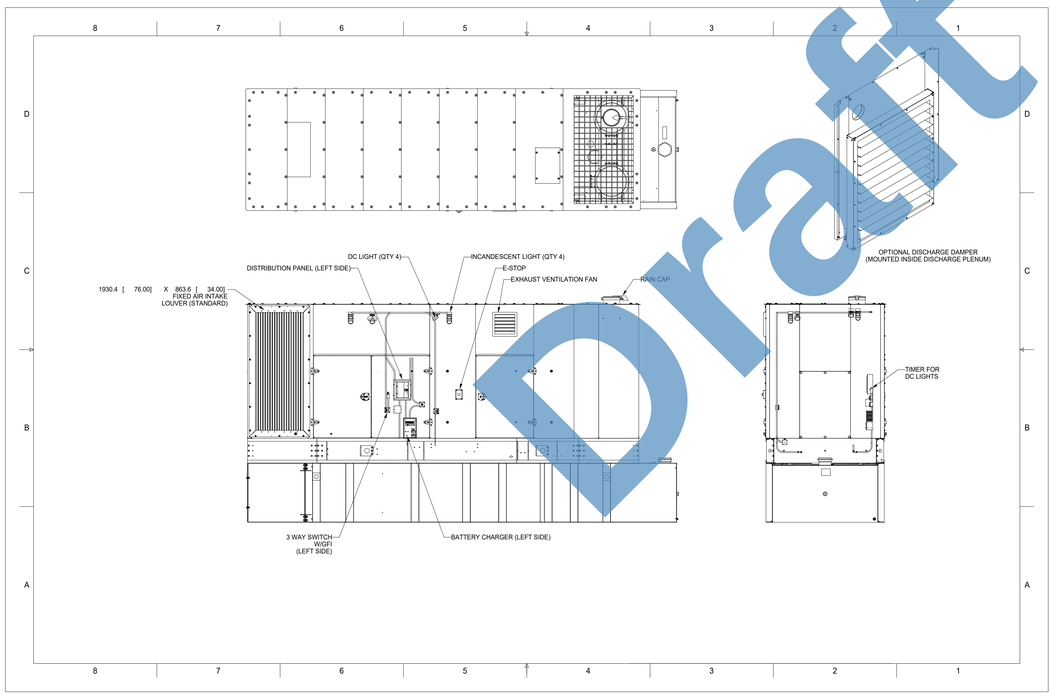


NOTES:

FOR PROPER ASSEMBLY METHOD OF HARDWARE, USE G-585 AS A GUIDELINE.

500-600KW REOZVB/C STEEL/ALUM ENCL. & TANKS SOUND & WEATHER

GENERATOR ENCLOSURE DETAIL | NTS | 4



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GENERATOR ENCLOSURE ABD SUB-BASE FUEL TANK ELEVATION DETAIL | NTS | 2

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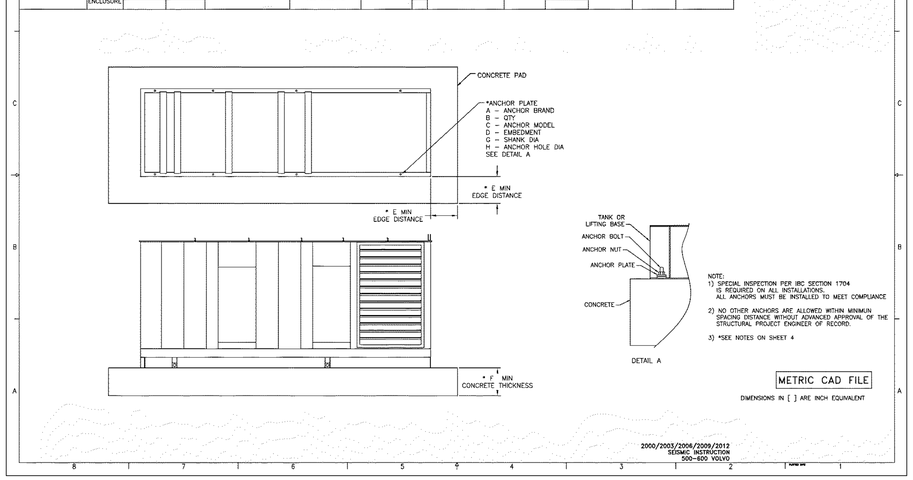
MAXIMUM SEISMIC DESIGN RATING APPLIES AS A SYSTEM TO GENSET, TANKS, ENCLOSURES AND ACCESSORIES				MAXIMUM IBC SEMIC DESIGN ACCELERATION FOR ACHORING SYSTEM	ANCHORING PLACEMENT LOCATIONS	ANCHORING SYSTEM							
GENSET MODELS	ENCLOSURE	FUEL TANK CAPACITY LITERS	FUEL TANK CAPACITY GAL			ANCHOR BRAND	QTY	A	B	C ANCHOR MODEL	D EMBEDMENT	E MIN	F MIN.	G SHAFT DIA	H ANCHOR HOLE DIA
500REQDVC 550-600REQZVB	WEATHER ENCLOSURE	–		S_{DS} = 1.93, z/H = 0.0	FOR MTG. HOLES FOR TANK MOUNTED UNITS SEE SHEET 2	HILTI	14			KWIK BOLT HDA-P POST-INSTALLED ANCHORS	250.0 [9.84]	254.0 [10.0]	355.6 [14.0]	20.0 [.787]	22.2 [.875]
	SOUND ENCLOSURE	–													
	SOUND & WEATHER ENCLOSURE	3929	1038												



NOTE:
1) SPECIAL INSPECTION PER IBC SECTION 1704 IS REQUIRED ON ALL INSTALLATIONS. ALL ANCHORS MUST BE INSTALLED TO MEET COMPLIANCE
2) NO OTHER ANCHORS ARE ALLOWED WITHIN MINIMUN SPACING DISTANCE WITHOUT ADVANCED APPROVAL OF THE STRUCTURAL PROJECT ENGINEER OF RECORD.
3) *SEE NOTES ON SHEET 4

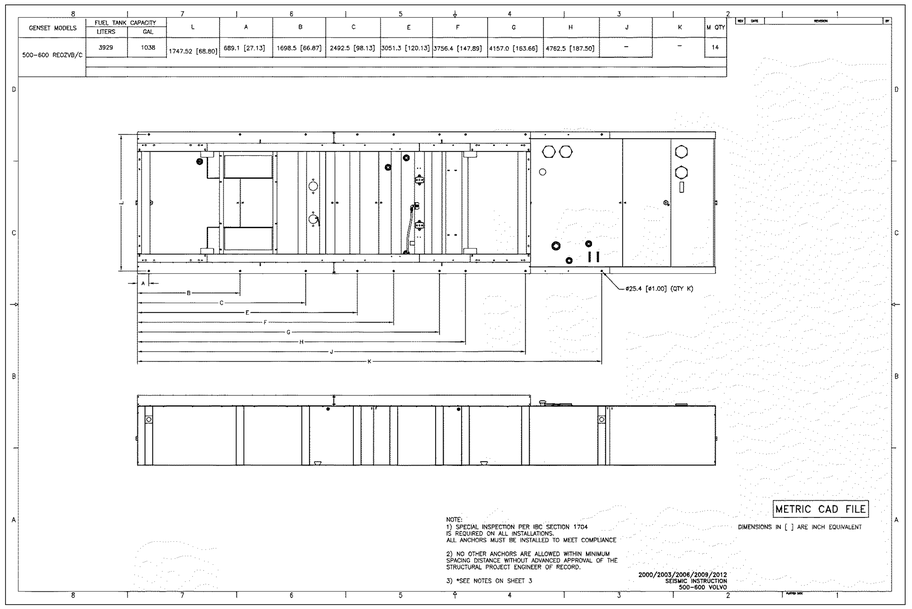
METRIC CAD FILE

DIMENSIONS IN [ ] ARE INCH EQUIVALENT

2000/2003/2006/2009/2012 SEISMIC INSTRUCTION 500–600 VOLVO

SEISMIC INSTRUCTION DETAIL | NTS | 3

GENSET MODELS	FUEL TANK CAPACITY LITERS	FUEL TANK CAPACITY GAL	L	A	B	C	E	F	G	H	J	K	M QTY
500–600 REQZVB/C	3929	1038	1747.52 [68.80]	689.1 [27.13]	1698.5 [66.87]	2492.5 [98.13]	3051.3 [120.13]	3756.4 [147.89]	4157.0 [163.66]	4762.5 [187.50]	–	–	14



NOTE:
1) SPECIAL INSPECTION PER IBC SECTION 1704 IS REQUIRED ON ALL INSTALLATIONS. ALL ANCHORS MUST BE INSTALLED TO MEET COMPLIANCE
2) NO OTHER ANCHORS ARE ALLOWED WITHIN MINIMUM SPACING DISTANCE WITHOUT ADVANCED APPROVAL OF THE STRUCTURAL PROJECT ENGINEER OF RECORD.
3) *SEE NOTES ON SHEET 3

METRIC CAD FILE

DIMENSIONS IN [ ] ARE INCH EQUIVALENT

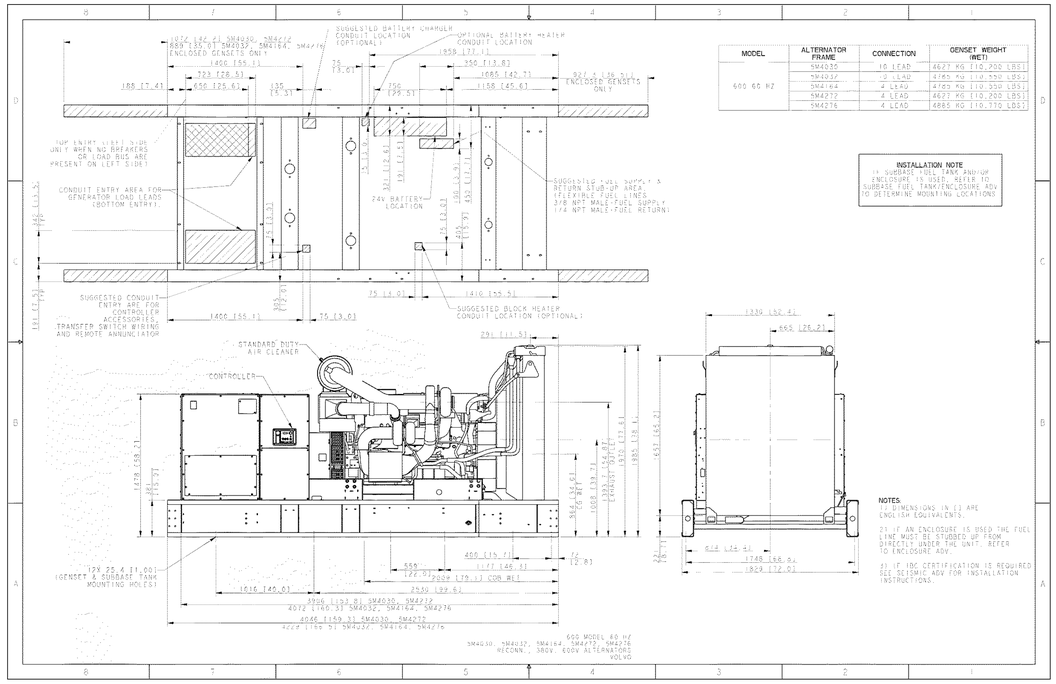
2000/2003/2006/2009/2012 SEISMIC INSTRUCTION 500–600 VOLVO

SEISMIC INSTRUCTION DETAIL | NTS | 4

SEISMIC INSTALLATION REQUIREMENTS:

The following are requirements for seismic installation:

1. The design of post–installed anchors in concrete used for the component anchorage is pre–qualified for seismic applications in accordance with ADI 355.2 and documented in a report by a reputable testing agency. (ex. The Evaluation Service Report issued by the International code Council)
2. Anchors must be installed to an embedment depth as recommended in the pre–qualification test report as defined in Note 1.
3. Anchors must be installed in minimum 4000 psi compressive strength normal weight concrete. Concrete aggregate must comply with ASTM C33. Installation in structural lightweight concrete is not permitted unless otherwise approved by the structural engineer of record.
4. Anchors must be installed to the torque specification as recommended by the anchor manufacturer to obtain maximum loading
5. Anchors must be installed in the locations specified the Kohler ADV dimension print.
6. Anchor bolt design loads or specific anchors are specified on seismic Kohler ADV.
7. Anchor plates from Kohler must be installed at each anchor location between anchor head and equipment to tension load distribution.
8. Concrete floor slab and concrete housekeeping pads must be designed and rebar reinforced for seismic applications in accordance with ACI 318.
9. All housekeeping pad thickness must be designed in accordance with pre–qualification test report as defined in Note 1 or a minimum of 1.5x the anchor embedment depth, whichever is largest
10. All housekeeping pads must be doweled or cast into the building structural floor slab and designed for seismic application per ACI 318 and as approved by the structural engineer of record
11. Wall mounted equipment must be installed to a rebar reinforced structural concrete wall that is seismically designed and approved by the engineer of record to resist the added seismic loads from the components being anchored to the wall.
12. Floor mounted equipment (with or without housekeeping pad) must be installed to a rebar reinforced structural concrete floor that is seismically designed and approved by the engineer of record to resist the added seismic loads from components being anchored to the floor.
13. When installing to a floor or wall, rebar interference must be considered.
14. Attaching seismic certified equipment to any floor or wall other than those constructed of structural concrete and designed to accept the seismic loads form said equipment is not permitted by this specification and beyond the scope of this certification.
16. Attaching seismic certified equipment to any concrete block walls or cinder block walls is not permitted by this specification and beyond the scope of this certification.
17. For installations upon rooftop, steel dunnage shall be coordinated with the Structural Engineer of Record.
18. Installation upon only rooftop curb shall be coordinated with the curb manufacturer and the Structural Engineer of Record. Any curb or concrete pad that supports the RTU unit is beyond the scope of this certification.
19. Anchor locations, size, type and load requirements are specified on the installation drawing. Mounting requirements details such as brand, type, embedment depth, edge spacing, anchor spacing, concrete strength, wall bracing, and special inspection must be outlined and approved by the project Structural Engineer of Record to withstand the seismic anchor loads as defined on the seismic installation drawing. The installing contractor is responsible for the proper installation of all anchors and mounting hardware, observing the mounting requirement details outlined by the Engineer of Record. Contact Kohler if a detail Seismic Installation Calculation Package is required.
20. Electrical wiring, piping, duct and other connections to the equipment is the responsibility of the installing contractor. It is necessary that these remain in tact, functional and do not inhibit the functionality of the generator set after a seismic event. Adequate slack shall be allowed cable and piping to allow for motions of set during a seismic event.
*21. Concrete pad dimensions are minimum values to satisfy only the anchor bolt requirements. The pad must be designed by the project structural engineer of record.
*22 Anchor bolt and concrete recommendations are for the maximum seismic design levels shown. If the specific application has a lower level, thinner concrete or alternate anchors may be acceptable. Consult Kohler.

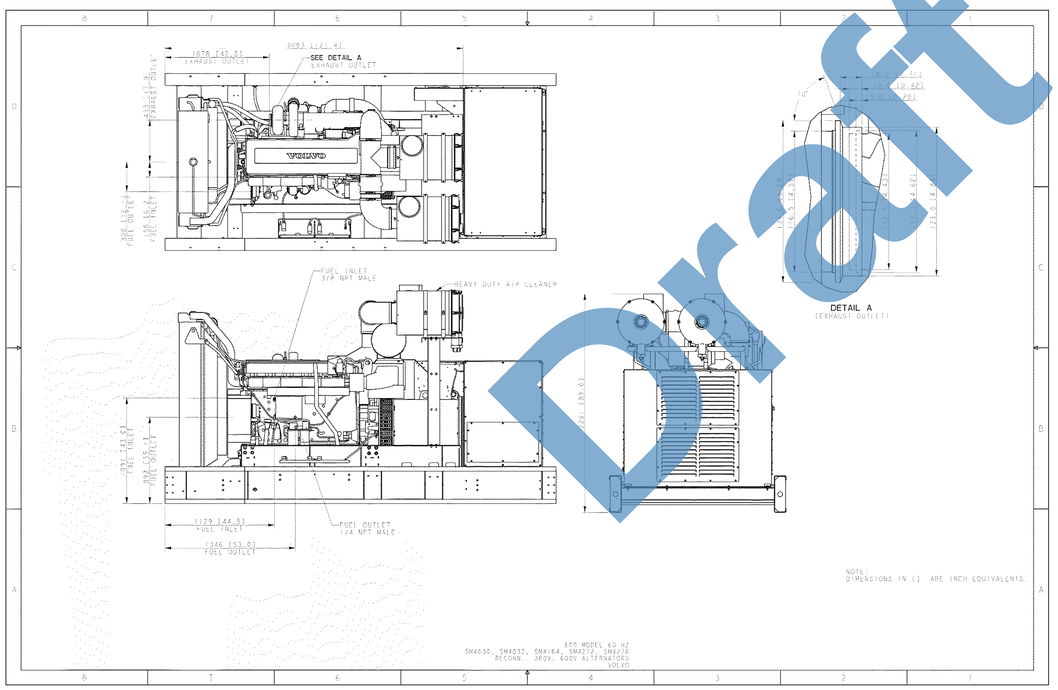


MODEL	ALTERNATOR FRAME	CONNECTION	GENSET WEIGHT (WET)
600 60 HZ	5M4030	10 LEAD	4627 KG [10,200 LBS]
	5M4032	12 LEAD	4765 KG [10,550 LBS]
	5M4164	4 LEAD	4765 KG [10,550 LBS]
	5M4272	4 LEAD	4627 KG [10,200 LBS]
	5M4276	4 LEAD	4885 KG [10,770 LBS]

INSTALLATION NOTE
(* SUBBASE FUEL TANK AND/OR ENCLOSURE IS USED, REFER TO SUBBASE FUEL TANK/ENCLOSURE ADV. TO DETERMINE MOUNTING LOCATIONS)

NOTES
1) DIMENSIONS IN [ ] ARE ENGLISH EQUIVALENTS.
2) IF AN ENCLOSURE IS USED THE FUEL LINE MUST BE STUBBED UP FROM DIRECTLY UNDER THE UNIT. REFER TO ENCLOSURE ADV.
3) IF IBC CERTIFICATION IS REQUIRED SEE SEISMIC ADV FOR INSTALLATION INSTRUCTIONS.

DIMENSIONED GENERATOR 600KW VOLVO ENGINE ALTERNATOR DETAIL | NTS | 1



NOTE:
DIMENSIONS IN [ ] ARE INCH EQUIVALENTS.

DIMENSIONED GENERATOR 600KW VOLVO ENGINE DETAIL | NTS | 2

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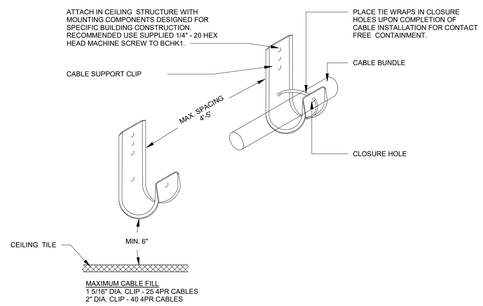
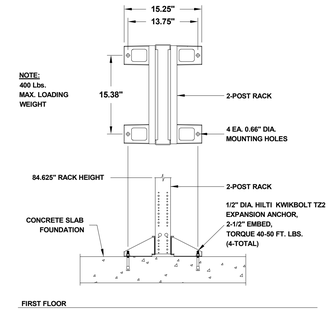
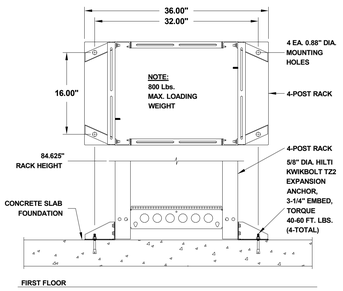


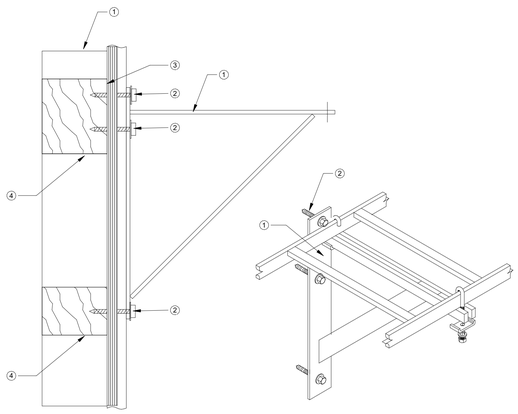
J-HOOK CABLE SUPPORT | NTS | 8



2-POST EQUIPMENT RACK | NTS | 4

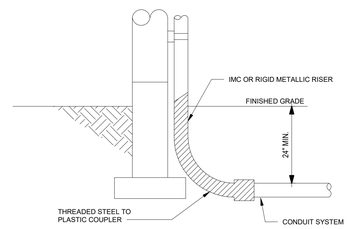


4-POST EQUIPMENT RACK | NTS | 1

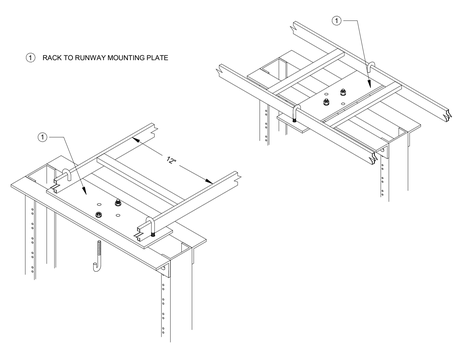


① TRIANGULAR SUPPORT BRACKET ALIGN WITH WOOD OR METAL STUD.
② • 3/8" LAG BOLT TO ACHIEVE 2-1/2" PENETRATION INTO SOLID. (WOOD CONTRUCTION)
• # 14 x 3" HEX HEAD WITH WASHER SELF TAPPING SMS SCREW INTO METAL BACKING. (STEEL CONSTRUCTION)
③ METAL BACKING OR WOOD BLOCKING
④ 2X WOOD OR 16 GA. MIN. METAL STUDS WHERE OCCURS

TRIANGULAR SUPPORT BRACKET DETAIL | NTS | 9



90° BEND METALLIC RISER COUPLED TO PVC | NTS | 5



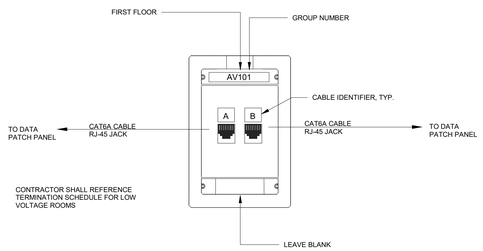
RACK TO RUNWAY MOUNTING PLATE DETAIL | NTS | 6

TYPICAL 7' RACK OR CABINET LAYOUT

1		1
2	4RU FIBER ENCLOSURE 4RU OR 1 RU DEPENDING ON FIBER COUNTS	2
3		3
4		4
5		5
6	24 PORT MODULAR PATCH PANEL 1RU	6
7	48 PORT POE NETWORK SWITCH 1RU	7
8	48 PORT MODULAR PATCH PANEL 2RU	8
9		9
10	48 PORT POE NETWORK SWITCH 1RU	10
11	48 PORT MODULAR PATCH PANEL 2RU	11
12		12
13	48 PORT POE NETWORK SWITCH 1RU	13
14	48 PORT MODULAR PATCH PANEL 2RU	14
15		15
16	48 PORT POE NETWORK SWITCH 1RU	16
17	48 PORT MODULAR PATCH PANEL 2RU	17
18		18
19	48 PORT POE NETWORK SWITCH 1RU	19
20	24 PORT MODULAR PATCH PANEL 1RU	20
21	RACK MOUNTED PDU	21
22	RESERVED FOR DISTRICT SERVERS 4RU	22
23		23
24		24
25		25
26	RESERVED FOR NETWORK VIDEO RECORDER 2RU	26
27		27
28	RACK MOUNTED UPS 4RU	28
29		29
30		30
31		31
32		32
33		33
34		34
35		35
36		36
37		37
38		38
39		39
40		40
41		41
42		42

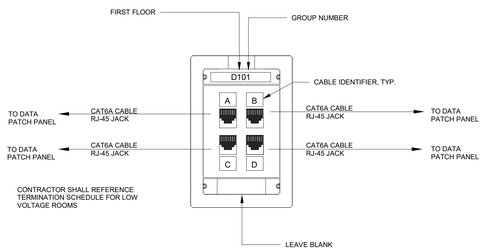
TYPICAL TELECOM IDF CABINET PLAN | NTS | 2

2-PORT RJ45 JACK FACE PLATE END POINT



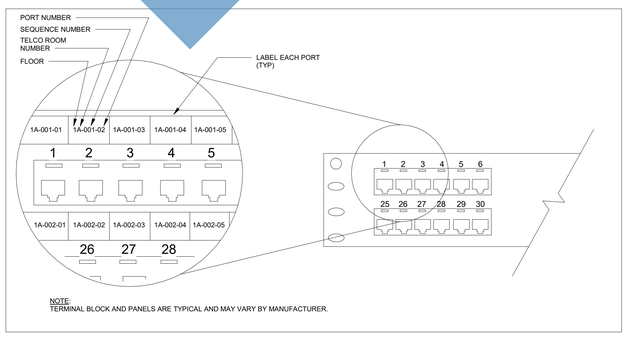
DATA 2-PORT WORKSTATION FACE PLATE & JACK LAYOUT

4-PORT RJ45 JACK FACE PLATE END POINT



DATA 4-PORT WORKSTATION FACE PLATE & JACK LAYOUT

STANDARD 2-PORT & 4-PORT WORKSTATION FACE PLATE & JACK LAYOUT AT HUDDLE DISPLAY | NTS | 7



NOTE:
TERMINAL BLOCK AND PANELS ARE TYPICAL AND MAY VARY BY MANUFACTURER.

TYPICAL COPPER PATCH PANEL LABELING DETAIL | NTS | 3

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
TECHNOLOGY DETAILS

SHEET
E-521

V1

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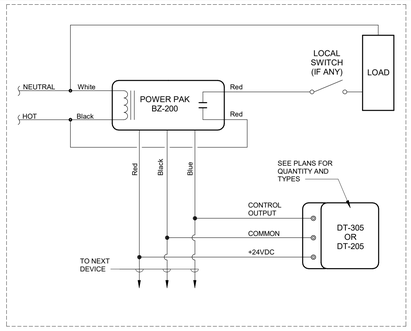
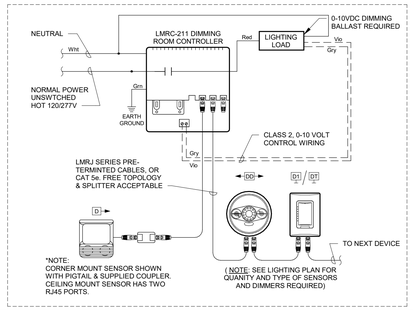
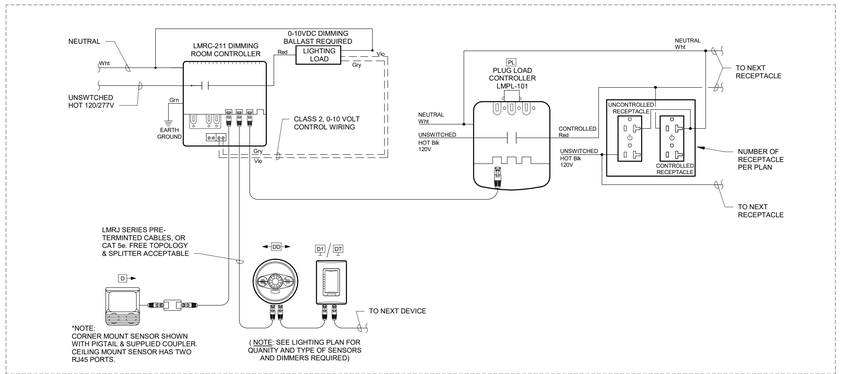


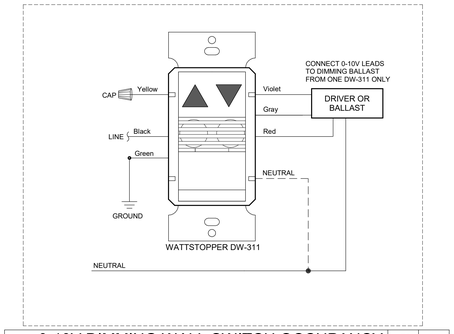
24V CEILING OR CORNER MOUNT OCCUPANCY SENSOR WIRING DIAGRAM | NTS | 6



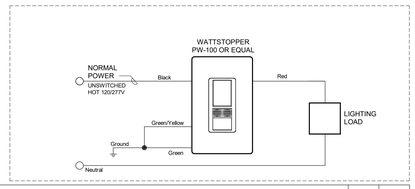
DLM 1-RELAY LIGHTING CONTROLS WIRING DIAGRAM | NTS | 1



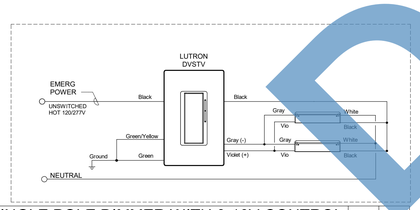
DLM 1-RELAY - DIMMER OCCUPANCY SENSOR AND CONTROLLED RECEPTACLE | NTS | 2



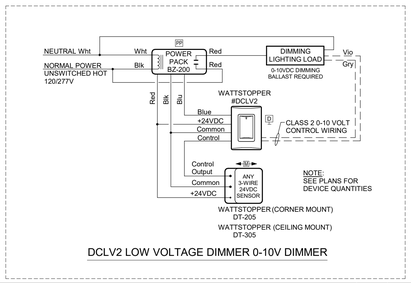
0-10V DIMMING WALL SWITCH OCCUPANCY SENSOR WIRING DIAGRAM | NTS | 7



PIR WALL SENSOR WIRING DIAGRAM | NTS | 3

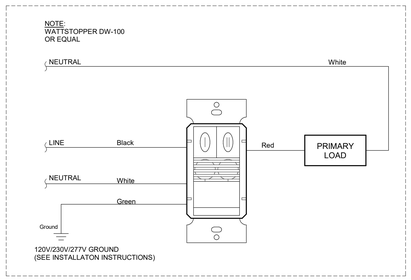


SINGLE POLE DIMMER WITH 0-10V CONTROL DETAIL | NTS | 4



DCLV2 LOW VOLTAGE DIMMER 0-10V DIMMER

24V DIMMER AND CEILING-CORNER MOUNT OCCUPANCY SENSOR WIRING DIAGRAM | NTS | 8



DUAL TECH WALL SENSOR WIRING DIAGRAM | NTS | 5

GENERAL NOTES:

DIGITAL LIGHTING MANAGEMENT (DLM) LIGHTING CONTROLS

1. THE CONTRACTOR MAY SUBSTITUTE EQUAL CONTROL DEVICES FROM A DIFFERENT MANUFACTURER AND SHALL PROVIDE LIGHTING AND RECEPTACLE CONTROL WIRING DIAGRAMS WITH THE SHOP DRAWING SUBMITTALS OF SUBSTITUTED DEVICES.
2. EVERY EFFORT HAS BEEN MADE ON THE PART OF THE ENGINEER TO INDICATE THE PROPER SELECTION OF THE PRODUCT AND MOUNTING LOCATIONS. FINAL DETERMINATION OF CIRCUITING, VOLTAGE, QUANTITY AND MODEL OF ROOM CONTROLLERS REQUIRED, AND SETTING OF SENSITIVITY/TIME ADJUSTMENTS ARE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR AND/OR COMMISSIONING AGENT. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHOULD BE ADHERED TO.
3. PLUG N' GO (PNG): DEFAULT OPERATION. UPON INITIAL POWER UP, THE DLM SYSTEM AUTOMATICALLY IDENTIFIES THE DEVICES ON THE LOCAL NETWORK THEN ENTERS THE WATTSTOPPER PATENTED PLUG N' GO CONFIGURATION TO ALLOW BASIC OPERATION OF ALL DLM DEVICES. IN MOST APPLICATIONS THE RELATIONSHIP BETWEEN QUANTITY OF LOADS, SWITCHES AND OCCUPANCY SENSORS WILL NOT REQUIRE ANY ADJUSTMENTS. PNG AUTOMATICALLY MAXIMIZES LIGHTING ENERGY EFFICIENCY.
4. ROOM CONTROLLERS SHOULD ONLY BE FED BY A CONSTANT HOT (UNSWITCHED) CIRCUIT.
5. ROOM CONTROLLERS WITH 2 OR 3 RELAYS ARE FOR MULTIPLE LEVELS OR ZONES, NOT MULTIPLE ROOMS.
6. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION. IF PENDANT MOUNTED FIXTURES ARE PRESENT, LOCATION AND COVERAGE OF SENSORS SHOULD BE REVIEWED.
7. CEILING MOUNTED SENSORS REQUIRE THEY BE LOCATED NO CLOSER THAN 4'-6' FROM AIR SUPPLY/RETURN REGISTERS.
8. PUSH N' LEARN (PNL): CUSTOM OPERATION A CONFIGURATION (CONFIG) BUTTON ON MOST DLM DEVICES ALLOWS EASY ACCESS TO THE WATTSTOPPER PATENTED PUSH N' LEARN TECHNOLOGY TO MODIFY SYSTEM OPERATION. FUNCTIONALITY OF THE CONFIG BUTTON IS STANDARDIZED THROUGHOUT THE DLM PRODUCT LINE, AS IS THE OPERATION OF THE CONFIG LED INDICATORS. IN ADDITION, THE CONFIGURATION TOOL PROVIDES REMOTE INFRARED ACCESS TO PNL AND SENSOR ADJUSTMENT PARAMETERS.
9. SEE PLANS FOR QUANTITY AND LOCATIONS REQUIRED.
10. FOR RECEPTACLES FLUSH IN WALL, PROVIDE (1) PLUG ROOM CONTROLLER PER CIRCUIT. REFER TO POWER PLANS FOR QUANTITY OF CONTROLLED CIRCUITS.
11. ALL PLUG ROOM CONTROLLERS SHALL SWITCH ON/OFF WITH THE LIGHTING CONTROLS.
12. OCCUPANCY SENSOR SEQUENCE OF OPERATION - GENERAL NOTES:
    - A. DURING BUSINESS HOURS, LIGHTS SHALL BE AUTOMATICALLY TURNED ON WHEN A PERSON ENTERS A SPACE, AND TURN OFF AFTER THE SPACE HAS BEEN UNOCCUPIED FOR A PERIOD OF TIME.
    - B. DURING WEEKDAYS, AFTER BUSINESS HOURS, LIGHTS SHALL BE TURNED ON MANUALLY ONLY, AND SHALL TURN OFF MANUALLY OR AUTOMATICALLY BY OCCUPANCY SENSOR.
    - C. DURING WEEKENDS AND HOLIDAYS, LIGHTS SHALL BE TURNED ON MANUALLY ONLY, AND SHALL TURN OFF MANUALLY OR AUTOMATICALLY BY OCCUPANCY SENSOR.

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MANAGEMENT

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TITLE
LIGHTING CONTROL DIAGRAMS

SHEET
E-611

V1

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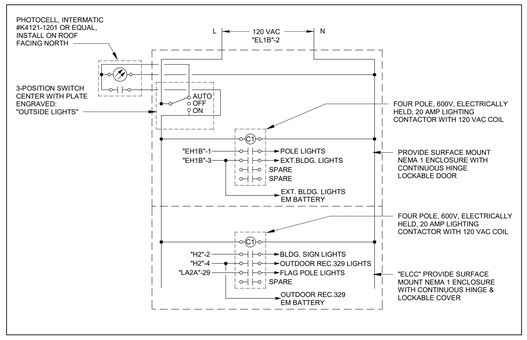
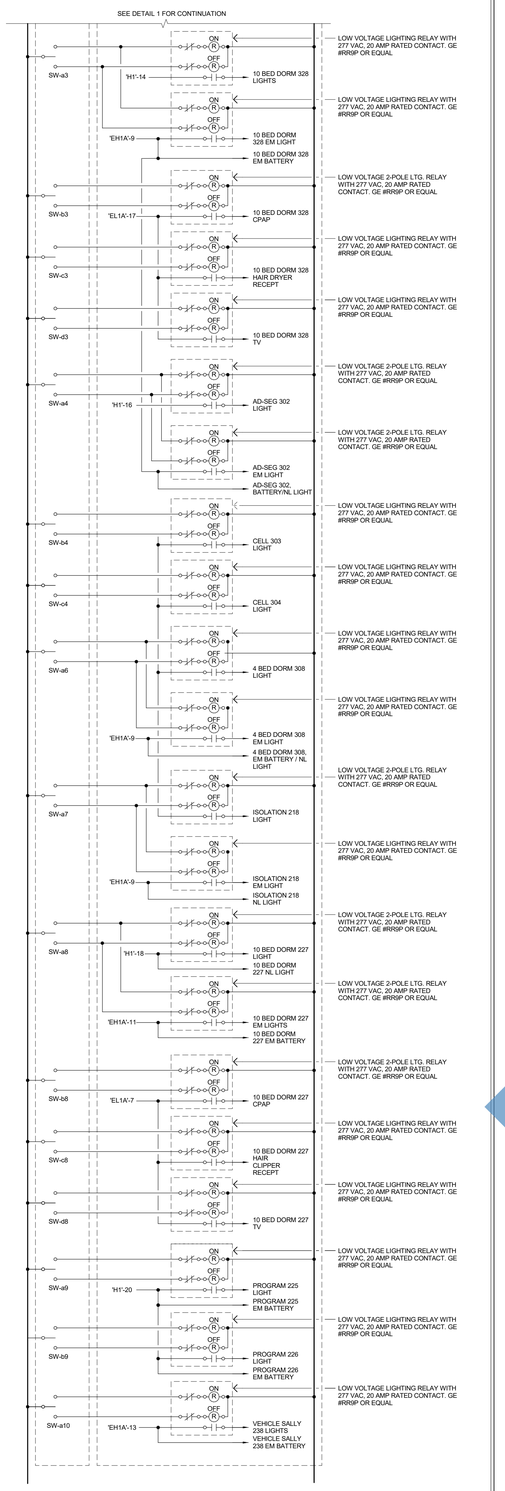
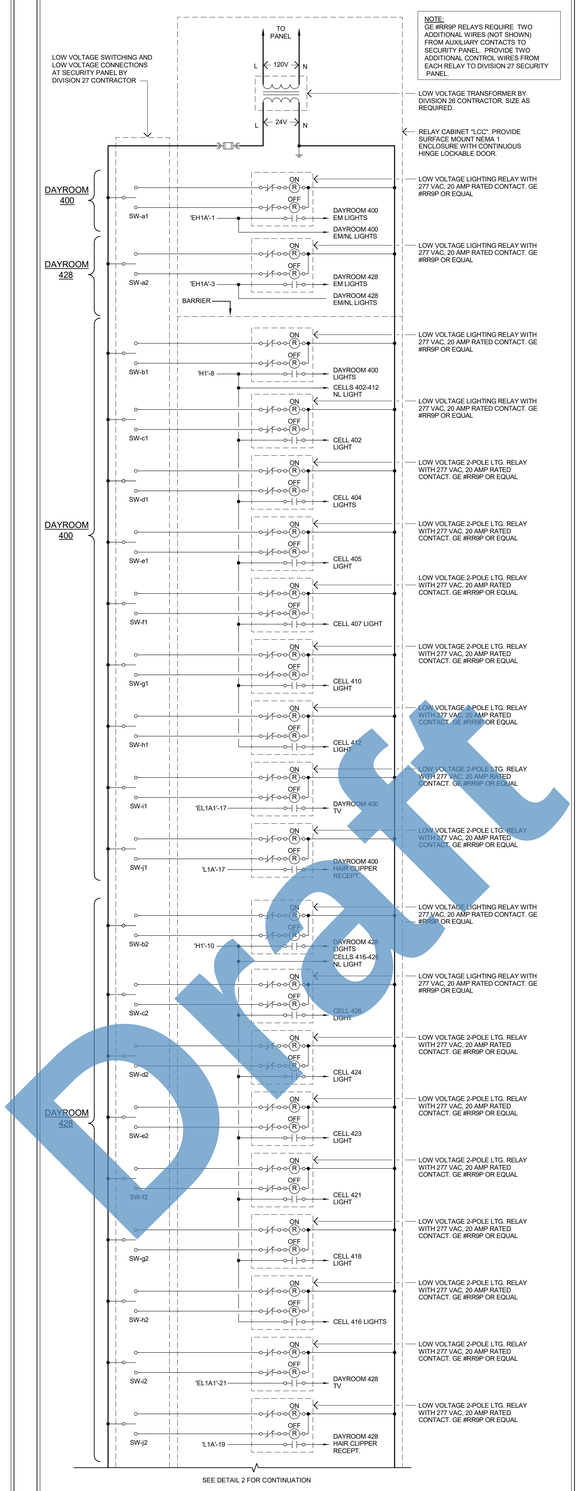


EXTERIOR LIGHTING CONTROL PANEL WIRING DIAGRAM "ELCC"	NTS	3



LIGHTING CONTROL CABINET "LCC" WIRING DIAGRAM	NOT TO SCALE	2



LIGHTING CONTROL CABINET "LCC" WIRING DIAGRAM	NOT TO SCALE	1

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SEPTEMBER 11, 2023

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TITLE
LIGHTING CONTROL CABINET DIAGRAM

SHEET
E-612

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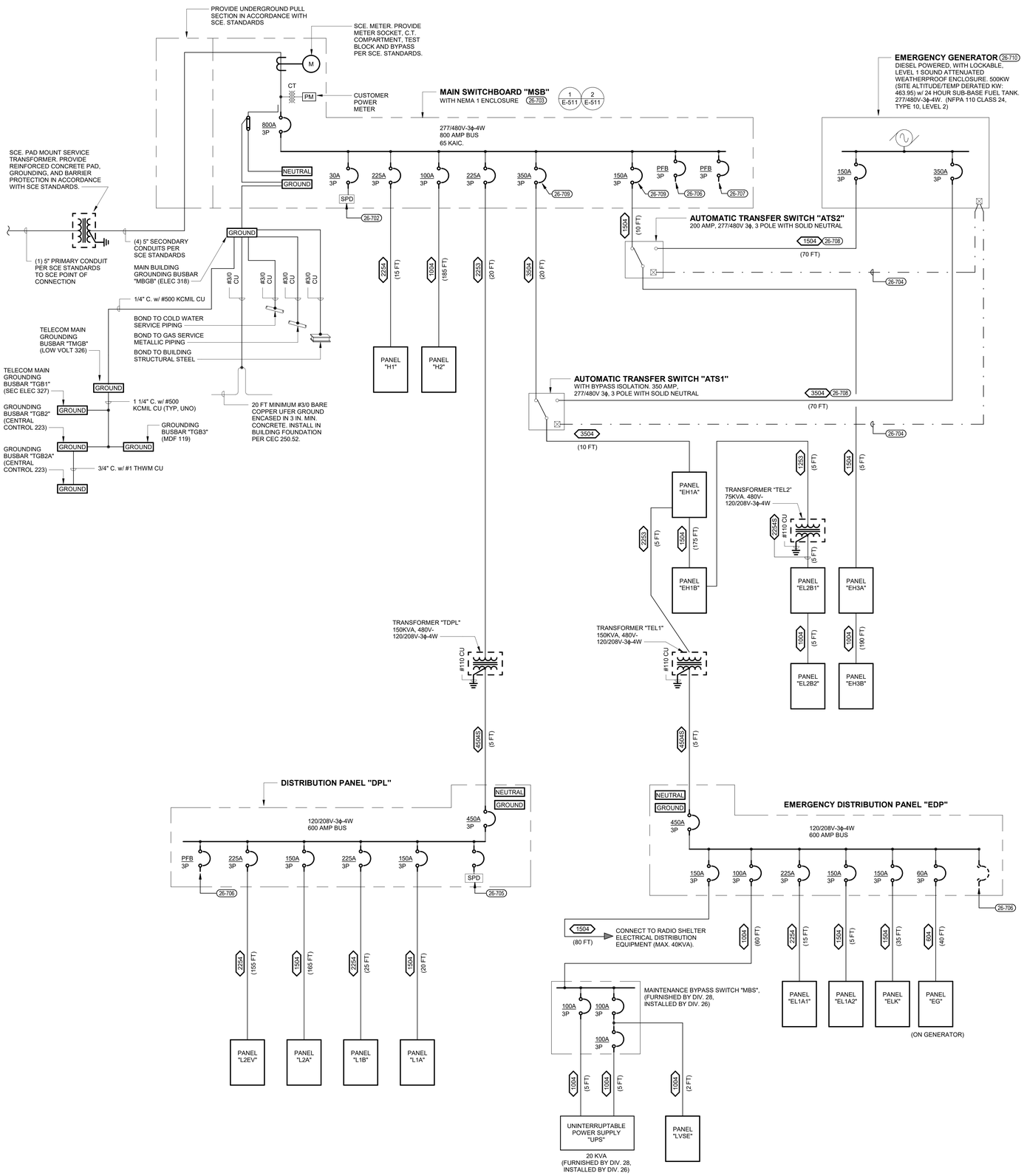

FAULT CURRENT & ARC FLASH NOTES

1. THE CONTRACTOR SHALL PROVIDE A SHORT CIRCUIT, PROTECTIVE DEVICE COORDINATION STUDY AND ARC FLASH STUDY FOR THE PROJECT COMPLETE ELECTRICAL DISTRIBUTION SYSTEM. SUBMIT TO THE ELECTRICAL ENGINEER OF RECORD FOR REVIEW. PROVIDE ALL SHORT CIRCUIT DEVICE AND EQUIPMENT CHARACTERISTIC INFORMATION FOR ALL ELECTRICAL COMPONENTS. PROVIDE TIME-CURRENT CURVES FOR ALL OVERCURRENT PROTECTIVE DEVICES IN THE SUBMITTAL. SET AND ADJUST ALL DEVICES IN ACCORDANCE WITH THE RESULTS OF THE STUDY PRIOR TO ENERGIZING EQUIPMENT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERTINENT INFORMATION NECESSARY IN ORDER TO PERFORM THE REQUIRED SHORT CIRCUIT, PROTECTIVE DEVICE COORDINATION AND ARC FLASH STUDIES TO INCLUDE BUT NOT LIMITED TO THE FOLLOWING:
   - A. CONTACTING THE SERVING POWER UTILITY TO OBTAIN THE AVAILABLE SHORT CIRCUIT CURRENT AT THE PROJECT POINT OF CONNECTION AND/OR SECONDARY OF THE SERVING UTILITY COMPANY SERVICE TRANSFORMER(S).
   - B. FIELD INVESTIGATION TO DETERMINE THE SHORT CIRCUIT CURRENT RATING FOR ANY EXISTING ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT.
   - C. ELECTRICAL CHARACTERISTICS FOR ALL PROPOSED NEW ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT.
3. THE CONTRACTOR SHALL PROVIDE APPROVED PERMANENT LABELS FOR ALL ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT TO CLEARLY IDENTIFY THE AVAILABLE SHORT CIRCUIT CURRENT AND ARC FLASH ENERGY LEVELS AND REQUIRED PPE (PERSONNEL PROTECTIVE EQUIPMENT).

EMERGENCY GENERATOR POWER LOADS

No.	LOAD TYPE
1	EMERGENCY EGRESS AND EXIT LIGHTING
2	EXTERIOR LIGHTING
3	FIRE ALARM SYSTEM
4	SECURITY SYSTEM (RACKS AND EQUIPMENT)
5	DATA AND COMMUNICATION EQUIPMENT
6	ACCESS CONTROL SYSTEM
7	RADIO TOWER
8	SELECT EMERGENCY POWER RECEPTACLES IN ADMIN AREA
9	EXAM / MED EQUIP EMERGENCY POWER RECEPTACLES
10	CPAP / TV EMERGENCY POWER RECEPTACLES IN INMATE AREAS
11	REFRIGERATORS
12	GATE OPERATORS
13	WATER MANAGEMENT SYSTEM
14	SEWAGE GRINDER
15	SELECT FOOD SERVICE EQUIPMENT
16	SELECT LAUNDRY EQUIPMENT
17	AC FANS AND POWER EXHAUST ONLY
18	EXHAUST FANS, MAU, KITCHEN EXHAUST FAN
19	CRITICAL AIR CONDITIONING FOR DATA / SECURITY ELECTRONICS ROOMS

FEEDER SCHEDULE

(26-XXX)

FEEDER TAG	RATING	CONDUIT & CONDUCTORS
604	60A / 3P / 4W	1 1/4" C - 4 # 4 CU + 1 # 10 CU GND
1004	100A / 3P / 4W	2" C - 4 # 1 CU + 1 # 8 CU GND
1253	125A / 3P / 3W	1 1/2" C - 3 # 1 CU + 1 # 6 CU GND
1504	150A / 3P / 4W	2" C - 4 # 1/0 CU + 1 # 6 CU GND
2253	225A / 3P / 3W	2 1/2" C - 3 # 4/0 CU + 1 # 4 CU GND
2254	225A / 3P / 4W	2 1/2" C - 4 # 4/0 CU + 1 # 4 CU GND
2254S	225A / 3P / 4W	2 1/2" C - 4 # 4/0 CU + 1 # 2 CU GND [SECONDARY]
3504	350A / 3P / 4W	4" C - 4 # 500 CU + 1 # 2 CU GND
4504S	450A / 3P / 4W	(2) 2 1/2" C - 4 # 4/0 CU + 1 # 1/0 CU (EACH) [SECONDARY]

Grand total: 9

ELECTRICAL SERVICE LOAD CALCULATION

(CEC 220)

INTERIOR LIGHTING	19452	SQ. FT. @	3.00	WATTS PER SQ. FT.	58.36	KVA
25% CONTINUOS LOAD FACTOR					14.59	KVA
EXTERIOR LIGHTING					3.00	KVA
GENERAL PURPOSE RECEPTACLE OUTLETS		@	3.00	WATTS PER SQ. FT.	58.36	KVA
HEATING, VENTILATING AND AIR CONDITIOINING EQUIPMENT						
AIR CONDITIONING					185.00	KVA
SERVICE WATER HEATING					11.00	KVA
EQUIPMENT AND APPLIANCES						
SEWAGE GRINDER (10HP)					11.63	KVA
EV CHARGERS			7.00	KVA EA. 5	35.00	KVA
PLUS CONTINUOUS LOAD				@ 25% =	8.75	KVA
KITCHEN					75.00	KVA
LAUNDRY					16.00	KVA
GATE OPERATORS (1 HP)			1.84	KVA EA. 4	7.36	KVA
DISPATCH TOWER					40.00	KVA
DATA & COMMUNICATIONS SYSTEMS					30.00	KVA
SECURITY SYSTEMS					20.00	KVA
LARGEST MOTOR =	12.00	KVA @ 25% =			3.00	KVA
10% SPARE	577.05	KVA	@ 10%	=	57.70	KVA
TOTAL SERVICE LOAD					= 634.75	KVA

634.7 KVA @ 277/480 VOLT , 3 PHASE = 764 AMPERES

PROVIDE 800 AMP, 277/480 VOLT, 3 PHASE, 4 WIRE SERVICE.

KEY NOTES

(25-XXX)

26-702 PROVIDE STANDARD INTEGRATED SURGE PROTECTION PROTECTION DEVICE WITH DISCONNECT SWITCH: MINIMUM 250KA/PHASE, 125KA/MODE.

26-703 PROVIDE 65,000 MINIMUM INTERRUPTING CAPACITY (A.I.C.) FOR MAIN AND FEEDER BREAKERS. PRIOR TO BID, CONTRACTOR SHALL COORDINATE WITH THE POWER UTILITY COMPANY THE MAXIMUM SHORT CIRCUIT CURRENT EXPECTED OF THE SECONDARY TERMINALS AT THE UTILITY COMPANY'S TRANSFORMER AND PROVIDE APPROPRIATE RATED SWITCHBOARD AND DOWNSTREAM ELECTRICAL PANELBOARDS. PROVIDE SHORT CIRCUIT CALCULATIONS TO JUSTIFY EQUIPMENT BEING SUBMITTED.

26-704 1"C. w/ COMMUNICATION CABLE.

26-705 PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE WITH DISCONNECT SWITCH: MINIMUM 120KA/PHASE, 60KA/MODE.

26-706 PROVIDE MINIMUM (2) PROVISIONS FOR FUTURE 225A/3P CIRCUIT BREAKERS.

26-707 PROVIDE PROVISION FOR FUTURE 225A/3P CIRCUIT BREAKER FOR PV.

26-708 PROVIDE CONCRETE ENCASED CONDUITS AND FEEDERS.

26-709 SELECTIVELY COORDINATE ALL EMERGENCY OVERCURRENT PROTECTION DEVICES DOWNSTREAM OF THIS OVERCURRENT PROTECTION DEVICE IN ACCORDANCE WITH CEC 700.32.

26-710 GENERATOR IS DESIGNED AS AN OPTIONAL STANDBY SYSTEM IN ACCORDANCE WITH CEC 702. ALL EMERGENCY AND LEGALLY REQUIRED STANDBY SYSTEMS SHALL BE EQUIPPED WITH INTEGRAL BATTERY PACKS OR HAVE BACK-UP POWER SUPPLIED VIA UPS.

GENERAL NOTES

1. PROVIDE A SIGN, PLACED AT THE SERVICE-ENTRANCE EQUIPMENT INDICATING THE TYPE AND LOCATION OF ON-SITE EMERGENCY POWER SOURCES, PER CEC 700.7.
2. THE MAIN SWITCHBOARD "MSB" SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC 110.24(A).
3. PROVIDE AN ARC-FLASH WARNING LABEL ON THE MAIN SWITCHBOARD "MSB", IN ACCORDANCE WITH CEC 110.16.
4. THE MAIN SERVICE DISCONNECT SHALL BE MARKED PERMANENTLY IN ACCORDANCE WITH CEC 230.70(B).
5. THE MAIN CIRCUIT BREAKER SHALL COMPLY WITH CEC 240.87(A) AND (B). PROVIDE REQUIRED DOCUMENTATION AND METHOD TO REDUCE CELARING TIME IN PRODUCT SUBMITTALS.
6. ALL UNDERGROUND CONDUITS, RISERS, AND SWEEPS SUPPORTING THE RADIO SHELTER SHALL BE PVC SCHEDULE 80. CONDUIT SWEEPS SHALL HAVE A MINIMUM 36" RADIUS.

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TITLE
ELECTRICAL ONE LINE DIAGRAM

SHEET
E-711

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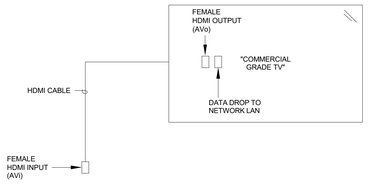
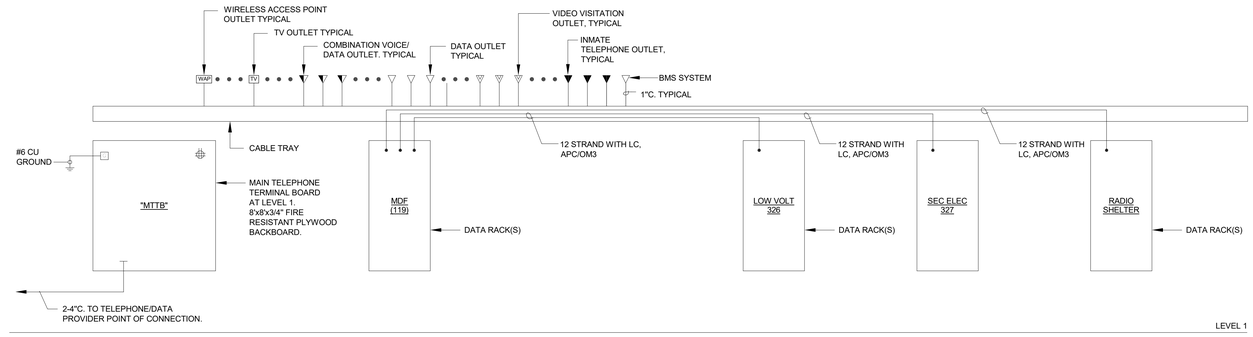


3 AV RISER DIAGRAM

SCALE: NONE



1 TECHNOLOGY RISER DIAGRAM

SCALE: NTS

INMATE TELEPHONE CABLE SCHEDULE

OUTLET NO.	FROM		TO		VOICE (4pr CAT-6A)	
	Rm. #	Room Name	Rm. #	Room Name	Quant.	Cable ID / Label
IT01	227	10 BED DORM	119	MDF	1	IT01D1
IT02	227	10 BED DORM	119	MDF	1	IT02D1
IT03	328	10 BED DORM	326	LOW VOLT	1	IT03D1
IT04	328	10 BED DORM	326	LOW VOLT	1	IT04D1
IT05	428	DAY ROOM	119	MDF	1	IT05D1
IT06	428	DAY ROOM	119	MDF	1	IT06D1
IT07	400	DAY ROOM	326	LOW VOLT	1	IT07D1
IT08	400	DAY ROOM	326	LOW VOLT	1	IT08D1

TELEVISION / AV DATA CABLE SCHEDULE

OUTLET NO.	FROM		TO		VOICE / DATA (4pr CAT-6A)	
	Rm. #	Room Name	Rm. #	Room Name	Quant.	Cable ID / Label
D001	121	BREAK	119	MDF	1	D001
D002	120	TRAINING	119	MDF	1	D002
D003	100	LOBBY	119	MDF	1	D003
D004	100	LOBBY	119	MDF	1	D004
D005	100	LOBBY	119	MDF	1	D005
D006	100	LOBBY	119	MDF	1	D006
D007	207	SEARCH	119	MDF	1	D007
D008	208	PROCESS	119	MDF	1	D008
D009	225	PROGRAM	119	MDF	1	D009
D010	225	PROGRAM	119	MDF	1	D010
D011	226	PROGRAM	119	MDF	1	D011
D012	226	PROGRAM	119	MDF	1	D012
D013	227	10 BED DORM	119	MDF	1	D013
D014	227	10 BED DORM	119	MDF	1	D014
D015	227	10 BED DORM	119	MDF	1	D015
D016	218	ISOLATION	326	LOW VOLT	1	D016
D017	302	AD-SEG	326	LOW VOLT	1	D017
D018	328	10 BED DORM	326	LOW VOLT	1	D018
D019	328	10 BED DORM	326	LOW VOLT	1	D019
D020	328	10 BED DORM	326	LOW VOLT	1	D020
D021	428	DAY ROOM	119	MDF	1	D021
D022	428	DAY ROOM	119	MDF	1	D022
D023	428	DAY ROOM	119	MDF	1	D023
D024	400	DAY ROOM	326	LOW VOLT	1	D024
D025	400	DAY ROOM	326	LOW VOLT	1	D025
D026	400	DAY ROOM	326	LOW VOLT	1	D026
D027	308	4 BED DORM	326	LOW VOLT	1	D027
D028	308	4 BED DORM	326	LOW VOLT	1	D028
D029	419	MECH	119	MDF	1	D029
D030	223	CENTRAL CONTROL	326	LOW VOLT	3	D030D1, D030D2, D030D3
D031	223	CENTRAL CONTROL	326	LOW VOLT	3	D031D1, D031D2, D031D3
D032	223	CENTRAL CONTROL	326	LOW VOLT	3	D032D1, D032D2, D032D3

WIRELESS ACCESS POINT (WAP) CABLE SCHEDULE

OUTLET NO.	FROM		TO		DATA (4pr CAT-6A)	
	Rm. #	Room Name	Rm. #	Room Name	Quant.	Cable ID / Label
W1-1	123	ADMIN CORRIDOR	119	MDF	2	W1-1D1, W1-1D2
W1-2	120	LOCKERS	119	MDF	2	W1-2D1, W1-2D2
W1-3	117	TRANING	119	MDF	2	W1-3D1, W1-3D2
W1-4	123	ADMIN CORRIDOR	119	MDF	2	W1-4D1, W1-4D2
W1-5	123	ADMIN CORRIDOR	119	MDF	2	W1-5D1, W1-5D2
W1-6	110	CONFERENCE	119	MDF	2	W1-6D1, W1-6D2
W1-7	108	ADMIN	119	MDF	2	W1-7D1, W1-7D2
W1-8	100	LOBBY	119	MDF	2	W1-8D1, W1-8D2
W1-9	103	FAMILY	119	MDF	2	W1-9D1, W1-9D2
W1-10	238	VEHICLE SALLY	119	MDF	2	W1-10D1, W1-10D2
W1-11	238	VEHICLE SALLY	119	MDF	2	W1-11D1, W1-11D2
W1-12	200	SALLY	119	MDF	2	W1-12D1, W1-12D2
W1-13	200	SALLY	119	MDF	2	W1-13D1, W1-13D2
W1-14	202	RELEASE	119	MDF	2	W1-14D1, W1-14D2
W1-15	203	PROPERTY	119	MDF	2	W1-15D1, W1-15D2
W1-16	220	CORRIDOR	119	MDF	2	W1-16D1, W1-16D2
W1-17	220	CORRIDOR	119	MDF	2	W1-17D1, W1-17D2
W1-18	236	HALLWAY	119	MDF	2	W1-18D1, W1-18D2
W1-19	201	CIRCULATION	119	MDF	2	W1-19D1, W1-19D2
W1-20	208	PROCESS	119	MDF	2	W1-20D1, W1-20D2
W1-21	225	PROGRAM	119	MDF	2	W1-21D1, W1-21D2
W1-22	226	PROGRAM	119	MDF	2	W1-22D1, W1-22D2
W1-23	227	10 BED DORM	119	MDF	2	W1-23D1, W1-23D2
W1-24	227	10 BED DORM	119	MDF	2	W1-24D1, W1-24D2
W1-25	224B	CORRIDOR	326	LOW VOLT	2	W1-25D1, W1-25D2
W1-26	224B	CORRIDOR	326	LOW VOLT	2	W1-26D1, W1-26D2
W1-27	224C	CORRIDOR	326	LOW VOLT	2	W1-27D1, W1-27D2
W1-28	224A	CORRIDOR	326	LOW VOLT	2	W1-28D1, W1-28D2
W1-29	220	CORRIDOR	326	LOW VOLT	2	W1-29D1, W1-29D2
W1-30	223	CENTRAL CONTROL	326	LOW VOLT	2	W1-30D1, W1-30D2
W1-31	302	AD-SEG	326	LOW VOLT	2	W1-31D1, W1-31D2
W1-32	220	CORRIDOR	326	LOW VOLT	2	W1-32D1, W1-32D2
W1-33	301	CORRIDOR	326	LOW VOLT	2	W1-33D1, W1-33D2
W1-34	328	10 BED DORM	326	LOW VOLT	2	W1-34D1, W1-34D2
W1-35	328	10 BED DORM	326	LOW VOLT	2	W1-35D1, W1-35D2
W1-36	314	KITCHEN	326	LOW VOLT	2	W1-36D1, W1-36D2
W1-37	314	KITCHEN	326	LOW VOLT	2	W1-37D1, W1-37D2
W1-38	301	CORRIDOR	326	LOW VOLT	2	W1-38D1, W1-38D2
W1-39	311	LAUNDRY	326	LOW VOLT	2	W1-39D1, W1-39D2
W1-40	428	DAY ROOM	119	MDF	2	W1-40D1, W1-40D2
W1-41	428	DAY ROOM	119	MDF	2	W1-41D1, W1-41D2
W1-42	428	DAY ROOM	119	MDF	2	W1-42D1, W1-42D2
W1-43	400	DAY ROOM	326	LOW VOLT	2	W1-43D1, W1-43D2
W1-44	400	DAY ROOM	326	LOW VOLT	2	W1-44D1, W1-44D2
W1-45	400	DAY ROOM	326	LOW VOLT	2	W1-45D1, W1-45D2
W1-46	308	4 BED DORM	326	LOW VOLT	2	W1-46D1, W1-46D2

TELEPHONE / DATA CABLE SCHEDULE

OUTLET NO.	FROM		TO		VOICE / DATA (4pr CAT-6A)	
	Rm. #	Room Name	Rm. #	Room Name	Quant.	Cable ID / Label
TD01	121	BREAK	119	MDF	4	TD01D1,TD01D2,TD01D3,TD01D4
TD02	120	LOCKERS	119	MDF	4	TD02D1,TD02D2,TD02D3,TD02D4
TD03	117	TRAINING	119	MDF	4	TD03D1,TD03D2,TD03D3,TD03D4
TD04	117	TRAINING	119	MDF	4	TD04D1,TD04D2,TD04D3,TD04D4
TD05	117	TRAINING	119	MDF	4	TD05D1,TD05D2,TD05D3,TD05D4
TD06	117	TRAINING	119	MDF	4	TD06D1,TD06D2,TD06D3,TD06D4
TD07	117	TRAINING	119	MDF	4	TD07D1,TD07D2,TD07D3,TD07D4
TD08	117	TRAINING	119	MDF	4	TD08D1,TD08D2,TD08D3,TD08D4
TD09	117	TRAINING	119	MDF	4	TD09D1,TD09D2,TD09D3,TD09D4
TD10	114	SGT OFFICE	119	MDF	4	TD10D1,TD10D2,TD10D3,TD10D4
TD11	114	SGT OFFICE	119	MDF	4	TD11D1,TD11D2,TD11D3,TD11D4
TD12	112	LT OFFICE	119	MDF	4	TD12D1,TD12D2,TD12D3,TD12D4
TD13	112	LT OFFICE	119	MDF	4	TD13D1,TD13D2,TD13D3,TD13D4
TD14	110	CONFERENCE	119	MDF	4	TD14D1,TD14D2,TD14D3,TD14D4
TD15	110	CONFERENCE	119	MDF	4	TD15D1,TD15D2,TD15D3,TD15D4
TD16	110	CONFERENCE	119	MDF	4	TD16D1,TD16D2,TD16D3,TD16D4
TD17	110	CONFERENCE	119	MDF	4	TD17D1,TD17D2,TD17D3,TD17D4
TD18	108	ADMIN	119	MDF	4	TD18D1,TD18D2,TD18D3,TD18D4
TD19	108	ADMIN	119	MDF	4	TD19D1,TD19D2,TD19D3,TD19D4
TD20	108	ADMIN	119	MDF	4	TD20D1,TD20D2,TD20D3,TD20D4
TD21	103	FAMILY	119	MDF	4	TD21D1,TD21D2,TD21D3,TD21D4
TD22	103	FAMILY	119	MDF	4	TD22D1,TD22D2,TD22D3,TD22D4
TD23	111	STORAGE	119	MDF	4	TD23D1,TD23D2,TD23D3,TD23D4
TD24	113	WORK ROOM	119	MDF	4	TD24D1,TD24D2,TD24D3,TD24D4
TD25	113	WORK ROOM	119	MDF	4	TD25D1,TD25D2,TD25D3,TD25D4
TD26	113	WORK ROOM	119	MDF	4	TD26D1,TD26D2,TD26D3,TD26D4
TD27	113	WORK ROOM	119	MDF	4	TD27D1,TD27D2,TD27D3,TD27D4
TD28	203	PROPERTY	119	MDF	4	TD28D1,TD28D2,TD28D3,TD28D4
TD29	203	PROPERTY	119	MDF	4	TD29D1,TD29D2,TD29D3,TD29D4
TD30	237	EXAM	119	MDF	4	TD30D1,TD30D2,TD30D3,TD30D4
TD31	237	EXAM	119	MDF	4	TD31D1,TD31D2,TD31D3,TD31D4
TD32	237	EXAM	119	MDF	4	TD32D1,TD32D2,TD32D3,TD32D4
TD33	232	MEDS / EQUIP	119	MDF	4	TD33D1,TD33D2,TD33D3,TD33D4
TD34	232	MEDS / EQUIP	119	MDF	4	TD34D1,TD34D2,TD34D3,TD34D4
TD35	234	STORAGE / CERT.	119	MDF	4	TD35D1,TD35D2,TD35D3,TD35D4
TD36	235	INTERVIEW	119	MDF	4	TD36D1,TD36D2,TD36D3,TD36D4
TD37	235	INTERVIEW	119	MDF	4	TD37D1,TD37D2,TD37D3,TD37D4
TD38	206	BOOKING	119	MDF	4	TD38D1,TD38D2,TD38D3,TD38D4
TD39	206	BOOKING	119	MDF	4	TD39D1,TD39D2,TD39D3,TD39D4
TD40	206	BOOKING	119	MDF	4	TD40D1,TD40D2,TD40D3,TD40D4
TD41	206	BOOKING	119	MDF	4	TD41D1,TD41D2,TD41D3,TD41D4
TD42	206	BOOKING	119	MDF	4	TD42D1,TD42D2,TD42D3,TD42D4
TD43	208	PROCESS	119	MDF	4	TD43D1,TD43D2,TD43D3,TD43D4
TD44	225	PROGRAM	119	MDF	4	TD44D1,TD44D2,TD44D3,TD44D4
TD45	225	PROGRAM	119	MDF	4	TD45D1,TD45D2,TD45D3,TD45D4
TD46	225	PROGRAM	119	MDF	4	TD46D1,TD46D2,TD46D3,TD46D4
TD47	226	PROGRAM	119	MDF	4	TD47D1,TD47D2,TD47D3,TD47D4
TD48	226	PROGRAM	119	MDF	4	TD48D1,TD48D2,TD48D3,TD48D4
TD49	226	PROGRAM	119	MDF	4	TD49D1,TD49D2,TD49D3,TD49D4
TD50	217	ANTE	326	LOW VOLT	4	TD50D1,TD50D2,TD50D3,TD50D4
TD51	223	CENTRAL CONTROL	326	LOW VOLT	4	TD51D1,TD51D2,TD51D3,TD51D4
TD52	223	CENTRAL CONTROL	326	LOW VOLT	4	TD52D1,TD52D2,TD52D3,TD52D4
TD53	223	CENTRAL CONTROL	326	LOW VOLT	4	TD53D1,TD53D2,TD53D3,TD53D4
TD54	223	CENTRAL CONTROL	326	LOW VOLT	4	TD54D1,TD54D2,TD54D3,TD54D4
TD55	223	CENTRAL CONTROL	326	LOW VOLT	4	TD55D1,TD55D2,TD55D3,TD55D4
TD56	223	CENTRAL CONTROL	326	LOW VOLT	4	TD56D1,TD56D2,TD56D3,TD56D4
TD57	315	OFFICE/SEC. STORAGE	326	LOW VOLT	4	TD57D1,TD57D2,TD57D3,TD57D4
TD58	315	OFFICE/SEC. STORAGE	326	LOW VOLT	4	TD58D1,TD58D2,TD58D3,TD58D4
TD59	--	EV PARKING	119	MDF	1	TD59D1

2 TECHNOLOGY DATA SCHEDULE

SCALE: NONE

Draft

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GOVMOTUS No:22-N-3854-CP-DR

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STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
TECHNOLOGY ONE LINE DIAGRAM

SHEET
E-721

V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
BIM 360://018133 Mono Jail/18113_ELECMSTR_R20_CENTRAL.rvt
8/25/2023 11:19:36 AM

Lighting Controls Sequence of Operation

SPACE TYPE	OCCUPANCY SENSOR: VACANCY MODE (MANUAL ON)	OCCUPANCY MODE (AUTO ON)	SENSOR TIME OUT PERIOD (5 TO 15 OR 30 MINUTES)	MOTION OPERATION DESIGNED 100% VACANT - SP	AUTO OFF AFTER HOURS	TIME CLOCK: SCHEDULED ON AT	SCHEDULED OFF AT	OVERRIDE SWITCH (2 HOURS)	WALL SWITCH: ON / OFF ONLY	DIMMER SWITCH	KEY SWITCH	LOCKED DIMMER	DIMMING: CONTINUOUS	STEP	MULTI ZONE	DAYLIGHT SENSOR: INDOOR - ON / OFF ONLY	INDOOR - DIMMING	TOPLITE/PERIMETER CONTACT	TWILIGHT	EXTERIOR PHOTOCELL - ON/OFF	SYSTEM: CONTROLLED RECEPTACLE	NETWORK	STAND-ALONE	LIGHTING CONTROL CABINET	CONTINUOUS - NO CONTROLS
ADMIN			30							X			X										X		
LT OFFICE		X	30							X			X										X		
ADMIN CORRIDOR		X	15							X			X										X		
ATTIC																									X
ATTIC									X														X		
ATTY (SHARED)		X	15						X														X		
ATTY (SHARED)		X	15																				X		
BOOKING										X													X		
BREAK ROOM		X	15							X			X										X		
CENTRAL CONTROL										X			X										X		
CHASE									X																
CONFERENCE		X	15							X			X										X		
DAYROOM																								X	
DBL CELL																								X	
DORM																								X	
DRY STORAGE		X	15						X														X		
ELECTRICAL									X														X		
EXAM										X			X										X		
FAMILY		X	15																				X		
HALLWAY		X		15					X														X		
MOLD											X												X		
INMATE TL											X												X		
INTERVIEW		X	15						X														X		
ISOLATION																								X	
JANITOR		X	30						X														X		
JANITOR (IN DAYROOM)									X														X		
KITCHEN									X														X		
LAUNDRY									X														X		
LIBRY		X	15							X			X										X		
LOCKERS		X	15							X			X										X		
LOW VOLT									X														X		
MDF									X														X		
MECH									X														X		
MOLD / EQUIP		X	15							X			X										X		
OFFICE SECURITY STORAGE		X	15							X			X										X		
OUTDOOR REC																								X	
PROCESS																								X	
PROGRAM																								X	
PROPERTY		X	30							X			X										X		
RECORDS		X	30						X				X										X		
RELEASE											X												X		
RESTROOM		X	15						X														X		
SANITY												X	X										X		
SALLY																									X
SECURED CORRIDOR										X													X		
SECURITY ELECTRONICS									X																
SERGEANT OFFICE		X	30							X			X										X		
SHOWERS (IN DAYROOM / DORM)																								X	
SINGLE CELL																								X	
SUBPH HOLD											X												X		
STAFF TOILET		X	15						X														X		
STORAGE		X	15						X														X		
TOILET AREA																								X	
TRAINING																								X	
VEHICLE SALLY																								X	
VISIT		X	15						X														X		
VISIT (SHARED)		X	15																				X		
WORK ROOM		X	15						X														X		

LIGHTING FIXTURE SCHEDULE (DETENTION TYPE)

TYPE	MANUFACTURER	MODEL	LAMP	LUMENS	COLOR TEMPERATURE	VOLTS	WATTS	MOUNTING	DESCRIPTION
DB1	KENALL	SDSA-4-0/0-67L35K-DCC-DV-1/9-1-DLN	LED	7161 lm	3500 K	277 V	74.0 W	SURFACE	1'x4' MAXIMUM SECURITY SURFACE MOUNT LED LUMINAIRE; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER, LED NIGHT LIGHT w/ LIGHT LEVEL CONTROL - SET NIGHT LIGHT LEVEL TO ACHIEVE 5 FOOTCANDLE AVERAGE.
DB2E	KENALL	SDSA-4-0/0-67L35K-DCC-DV-1/9-1-LEL	LED	7161 lm	3500 K	277 V	74.0 W	SURFACE	1'x4' MAXIMUM SECURITY SURFACE MOUNT LED LUMINAIRE; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER, 8.4W EMERGENCY BATTERY BACKUP
DC1	KENALL	SDSA-4-0/0-45L35K-DCC-DV-1/9-1-DLN	LED	4484 lm	3500 K	277 V	46.0 W	SURFACE	1'x4' MAXIMUM SECURITY SURFACE MOUNT LED LUMINAIRE; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER, LED NIGHT LIGHT w/ LIGHT LEVEL CONTROL - SET NIGHT LIGHT LEVEL TO ACHIEVE 5 FOOTCANDLE AVERAGE.
DC1E	KENALL	SDSA-4-0/0-45L35K-DCC-DV-1/9-1-DLN-LEL	LED	4484 lm	3500 K	277 V	46.0 W	SURFACE	1'x4' MAXIMUM SECURITY SURFACE MOUNT LED LUMINAIRE WITH ADJUSTABLE NIGHT LIGHT AND 8.4W EMERGENCY BATTERY BACKUP; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER, LED NIGHT LIGHT w/ LIGHT LEVEL CONTROL - SET NIGHT LIGHT LEVEL TO ACHIEVE 5 FOOTCANDLE AVERAGE.
DC2	KENALL	SDSA-4-0/0-45L35K-DCC-DV-1/9-1	LED	4484 lm	3500 K	277 V	46.0 W	SURFACE	1'x4' MAXIMUM SECURITY SURFACE MOUNT LED LUMINAIRE WITHOUT NIGHT LIGHT; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER.
DD1	KENALL	SDD-2-0/0-25L35K-DCC-DV-1/9-1-WL	LED	2855 lm	3500 K	277 V	28.0 W	SURFACE TO UNDERSIDE OF CUSTOM PLATE	2'x2' MAXIMUM SECURITY SURFACE MOUNT LED LUMINAIRE, WET LOCATION; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER, WET LOCATION LISTED - PROVIDE WITH CUSTOM PLATE.
DD1E	KENALL	SDD-2-0/0-25L35K-DCC-DV-1/9-1-LEL-WL	LED	2855 lm	3500 K	277 V	28.0 W	SURFACE TO UNDERSIDE OF CUSTOM PLATE	SIMILAR TO TYPE "DD1" EXCEPT WITH EMERGENCY BATTERY BACKUP
DF1E	KENALL	SCD-4-0/0-67L35K-DCC-DV-1/9-1-LEL-SP-C-4888	LED	8303 lm	3500 K	277 V	74.0 W	SURFACE	2'x4' MAXIMUM SECURITY SURFACE MOUNT LED LUMINAIRE; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER, EMERGENCY BATTERY BACKUP.
DF2E	KENALL	SCD-4-0/0-45L35K-DCC-DV-1/9-1-LEL	LED	5200 lm	3500 K	277 V	46.0 W	SURFACE	2'x4' MAXIMUM SECURITY MOUNT LED LUMINAIRE; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER, EMERGENCY BATTERY BACKUP.
DG1	KENALL	SCD-2-0/0-25L35K-DCC-DV-1/9-1	LED	2746 lm	3500 K	277 V	74.0 W	SURFACE	2'x2' MAXIMUM SECURITY SURFACE MOUNT LED LUMINAIRE; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER.
DK1	KENALL	RQCA-0/0-23L35K-DCC-DV-1/9-1-DLN-WL	LED	1711 lm	3500 K	277 V	29.0 W	RECESSED	12" SQUARE MAXIMUM SECURITY RECESSED LED SHOWER LUMINAIRE WITH NIGHT LIGHT; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER, WET LOCATION LISTED, LED NIGHT LIGHT w/ LIGHT LEVEL CONTROL
DL1E	KENALL	RMCD-4-TG-0/0-45L35K-DCC-DV-1/9-DLN-LEL	LED	4489 lm	3500 K	277 V	46.0 W	RECESSED IN T-BAR	2'x4' MAXIMUM SECURITY RECESSED LED LUMINAIRE WITH ADJUSTABLE NIGHT LIGHT AND 10W EMERGENCY BATTERY BACKUP; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER; LED NIGHT LIGHT w/ LIGHT LEVEL CONTROL - SET NIGHT LIGHT LEVEL TO ACHIEVE 5 FOOTCANDLE AVERAGE.
DL2	KENALL	RMCD-4-TG-0/0-45L35K-DCC-DV-1/9	LED	4489 lm	3500 K	277 V	46.0 W	RECESSED IN T-BAR	2'x4' MAXIMUM SECURITY RECESSED LED LUMINAIRE WITHOUT ADJUSTABLE NIGHT LIGHT; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER.
DL3	KENALL	RMCD-4-TG-0/0-90L35K-DCC-DV-1/9	LED	8851 lm	3500 K	277 V	97.0 W	RECESSED IN T-BAR	2'x4' MAXIMUM SECURITY RECESSED LED LUMINAIRE WITHOUT ADJUSTABLE NIGHT LIGHT; OUTER LENS 0.250" CLEAR POLYCARBONATE, INNER LENS 0.125" PRISMATIC ACRILYC, 0-10V DIMMING DRIVER.
DL3E	KENALL	RMCD-4-TG-0/0-90L35K-DCC-DV-1/9-LEL	LED	8851 lm	3500 K	277 V	97.0 W	RECESSED IN T-BAR	SIMILAR TO TYPE "DL3" EXCEPT WITH 10W EMERGENCY BATTERY BACKUP.
DX1	KENALL	MMEX-1-0-G-DT-1-EL-9500	LED	0 lm	0 K	277 V	4.8 W	CEILING	MAXIMUM SECURITY ILLUMINATED EXIT SIGN WITH EMERGENCY BATTERY PACK, SINGLE FACE WITH DIRECTIONAL ARROWS PER PLAN. GREEN TEXT.
DX2	KENALL	MMEX-1-0-G-DT-1-EL-9500	LED	0 lm	0 K	277 V	4.8 W	WALL	MAXIMUM SECURITY ILLUMINATED EXIT SIGN WITH EMERGENCY BATTERY PACK, SINGLE FACE WITH DIRECTIONAL ARROWS PER PLAN. GREEN TEXT.

LIGHTING FIXTURE SCHEDULE (NON DETENTION TYPE)

TYPE	MANUFACTURER	MODEL	LAMP	LUMENS	COLOR TEMPERATURE	VOLTS	WATTS	MOUNTING	DESCRIPTION
			LED	0 lm	0 K	0 V	0.0 W		
A1	HE WILLIAMS	AT2-24-L40/835-D-DIM-UNV	LED	4000 lm	3500 K	277 V	34.2 W	RECESSED IN T-BAR	2'x4' RECESSED ARCHITECTURAL LED TROFFER; DIFFUSE MATTE ACRYLIC CENTER; 0-10V DIMMING DRIVER
A1E	HE WILLIAMS	AT2-24-L40/835-D-EM/10W-DIM-UNV	LED	4000 lm	3500 K	277 V	34.2 W	RECESSED IN T-BAR	SIMILAR TO TYPE "A1" EXCEPT WITH 10W EMERGENCY BATTERY
A2	HE WILLIAMS	AT2-24-L55/835-D-DIM-UNV	LED	5500 lm	3500 K	277 V	48.0 W	RECESSED IN T-BAR	2'x4' RECESSED ARCHITECTURAL LED TROFFER; DIFFUSE MATTE ACRYLIC CENTER; 0-10V DIMMING DRIVER
A2E	HE WILLIAMS	AT2-24-L55/835-D-DIM-UNV-EM/10W	LED	5500 lm	3500 K	277 V	48.0 W	RECESSED IN T-BAR	SIMILAR TO TYPE "A2" EXCEPT WITH 20W EMERGENCY BATTERY.
A3	HE WILLIAMS	AT2-24-L70/835-D-DIM-UNV	LED	7000 lm	3500 K	277 V	63.3 W	RECESSED IN T-BAR	2'x4' RECESSED ARCHITECTURAL LED TROFFER; DIFFUSE MATTE ACRYLIC CENTER; 0-10V DIMMING DRIVER
B1E	HE WILLIAMS	AT2-22-L30/835-D-DIM-UNV-EM/10W	LED	3000 lm	3500 K	277 V	29.5 W	RECESSED IN T-BAR	2'x2' RECESSED ARCHITECTURAL LED TROFFER; DIFFUSE MATTE ACRYLIC CENTER; 0-10V DIMMING DRIVER WITH 10W EMERGENCY BATTERY
C1	HE WILLIAMS	50G-S24-L59/835-S-X21-PA250-VLF-DIM-UNV	LED	5900 lm	3500 K	277 V	48.0 W	RECESSED IN T-BAR	2'x4' RECESSED VANDAL RESISTANT LED TROFFER; VANDAL RESISTANT LENS; 0-10V DIMMING DRIVER.
C1E	HE WILLIAMS	50G-S24-L59/835-S-X21-PA250-VLF-EM/10W-DIM-UNV	LED	5900 lm	3500 K	277 V	48.0 W	RECESSED IN T-BAR	SIMILAR TO TYPE "C1" EXCEPT WITH 10W EMERGENCY BATTERY
C2	HE WILLIAMS	50G-S24-L90(L65)/835-S-X21-PA250-VLF-DIM-UNV	LED	6500 lm	3500 K	277 V	72.0 W	RECESSED IN T-BAR	2'x4' RECESSED VANDAL RESISTANT LED TROFFER; VANDAL RESISTANT LENS; 0-10V DIMMING DRIVER.
C2E	HE WILLIAMS	50G-S24-L90(L65)/835-S-X21-PA250-VLF-EM/10W-DIM-UNV	LED	6500 lm	3500 K	277 V	72.0 W	RECESSED IN T-BAR	SIMILAR TO TYPE "C2" EXCEPT WITH 10W EMERGENCY BATTERY
C3	HE WILLIAMS	50G-S22-L65/835-S-X21-PA250-VLF-DIM-UNV	LED	6500 lm	3500 K	277 V	54.4 W	RECESSED IN T-BAR	2'x2' RECESSED VANDAL RESISTANT LED TROFFER; VANDAL RESISTANT LENS; 0-10V DIMMING DRIVER.
C3E	HE WILLIAMS	50G-S22-L65/835-S-X21-PA250-VLF-DIM-UNV-EM/10W	LED	6500 lm	3500 K	277 V	54.4 W	RECESSED IN T-BAR	SIMILAR TO TYPE "C3" EXCEPT WITH 10W EMERGENCY BATTERY
C4	HE WILLIAMS	50G-S24-L33/835-S-X21-PA250-VLF-DIM-UNV	LED	3300 lm	3500 K	277 V	24.9 W	RECESSED IN T-BAR	2'x4' RECESSED VANDAL RESISTANT LED TROFFER; VANDAL RESISTANT LENS; 0-10V DIMMING DRIVER.
C4E	HE WILLIAMS	50G-S24-L33/835-S-X21-PA250-VLF-DIM-UNV-EM/10W	LED	3300 lm	3500 K	277 V	24.9 W	RECESSED IN T-BAR	SIMILAR TO TYPE "C4" EXCEPT WITH 10W EMERGENCY BATTERY.
F2	HE WILLIAMS	39-4-L52/835-A-DIM-UNV	LED	5200 lm	3500 K	277 V	37.2 W	SURFACE	4FT. SURFACE MOUNT LED WRAP; 0-10V DIMMING DRIVER.
F2E	HE WILLIAMS	39-4-L52/835-A-DIM-UNV-EM/10WLP	LED	5200 lm	3500 K	277 V	37.2 W	SURFACE	SIMILAR TO TYPE "F2" EXCEPT WITH 10W EMERGENCY BATTERY
F3	HE WILLIAMS	39-4-L30/835-A-DIM-UNV	LED	3000 lm	3500 K	277 V	22.8 W	SURFACE	4FT. SURFACE MOUNT LED WRAP; 0-10V DIMMING DRIVER.
G1	HE WILLIAMS	AVX-4-L62-835-WPC-DIM-UNV	LED	6200 lm	3500 K	277 V	57.0 W	SURFACE	4FT. SURFACE MOUNT LED VANDAL WRAP; 0-10V DIMMING DRIVER, WHITE IMPACT RESISTANT LENS.
G1E	HE WILLIAMS	AVX-4-L62-835-WPC-DIM-UNV-EM/10WLP	LED	6200 lm	3500 K	277 V	57.0 W	SURFACE	SIMILAR TO TYPE "G1" EXCEPT WITH 10W EMERGENCY BATTERY.
G2	HE WILLIAMS	AVX-4-L82/835-WPC-DIM-UNV-AC(Y12)/48 / S48-4-8/W	LED	8200 lm	3500 K	277 V	88.0 W	SUSPENDED @ 13-0" AFF TO BOTTOM OF FIXTURE, UNO	4FT. PENDANT MOUNT WRAP; VANDAL RESISTANT LENS, 48" ADJUSTABLE AIRCRAFT CABLE WITH CANOPIES; 0-10V DIMMING DRIVER, POWER CORD.
G2E	HE WILLIAMS	AVX-4-L82/835-WPC-DIM-UNV-AC(Y12)/48-EM/10WLP / S48-4-8/W	LED	8200 lm	3500 K	277 V	88.0 W	SUSPENDED @ 13-0" AFF TO BOTTOM OF FIXTURE, UNO	SIMILAR TO TYPE "G2" EXCEPT WITH 10W EMERGENCY BATTERY.
H1	HE WILLIAMS	SLF-4-L52/835-HIA/TP-DIM-UNV	LED	5200 lm	3500 K	277 V	37.2 W	WALL	4FT. WALL MOUNT LED WRAP; FROSTED HIGH-IMPACT ACRYLIC WITH TAMPER RESISTANT SCREWS SHIELDING, 0-10V DIMMING DRIVER
K1	HE WILLIAMS	AVX-4-L100/835-CPC-DIM-UNV-AC(Y12)/D48	LED	10000 lm	3500 K	277 V	88.0 W	SUSPENDED @ 10-0" AFF TO BOTTOM OF FIXTURE, UNO	4FT. PENDANT MOUNT WRAP; 48" ADJUSTABLE AIRCRAFT CABLE WITH CANOPIES; 0-10V DIMMING DRIVER.
K1E	HE WILLIAMS	AVX-4-L100/835-CPC-DIM-UNV-AC(Y12)/D48-EM/10WLP	LED	10000 lm	3500 K	277 V	88.0 W	SUSPENDED @ 10-0" AFF TO BOTTOM OF FIXTURE, UNO	SIMILAR TO TYPE "K1" EXCEPT WITH 10W EMERGENCY BATTERY.
L1	HE WILLIAMS	39-4-L84/835-A-AC(Y12)D48-DIM-UNV	LED	8400 lm	3500 K	277 V	66.0 W	SUSPENDED @ 12-0" AFF TO BOTTOM OF FIXTURE, UNO	4FT. PENDANT MOUNT WRAP; 48" ADJUSTABLE AIRCRAFT CABLE WITH CANOPIES; 0-10V DIMMING DRIVER, 10W EMERGENCY BATTERY
L1E	HE WILLIAMS	39-4-L84/835-A-AC(Y12)D48-DIM-UNV-EM/10WLP	LED	8400 lm	3500 K	277 V	66.0 W	SUSPENDED @ 12-0" AFF TO BOTTOM OF FIXTURE, UNO	SIMILAR TO TYPE "L1" EXCEPT WITH 10W EMERGENCY BATTERY.
M1E	HE WILLIAMS	39-8-L104(L90)/835-A-AC(Y12)D48-DIM-UNV-EM/10WLP	LED	9000 lm	3500 K	277 V	65.0 W	SUSPENDED @ 12-0" AFF TO BOTTOM OF FIXTURE, UNO	8FT. PENDANT MOUNT WRAP; 48" ADJUSTABLE AIRCRAFT CABLE WITH CANOPIES; 0-10V DIMMING DRIVER, 10W EMERGENCY BATTERY
M2E	HE WILLIAMS	39-8-L168/835-A-AC(Y12)D48-DIM-UNV-EM/10WLP	LED	16800 lm	3500 K	277 V	132.0 W	SUSPENDED @ 12-0" AFF TO BOTTOM OF FIXTURE, UNO	8FT. PENDANT MOUNT WRAP; 48" ADJUSTABLE AIRCRAFT CABLE WITH CANOPIES; 0-10V DIMMING DRIVER, 10W EMERGENCY BATTERY
N1	HE WILLIAMS	50G-S24-L59/835-S-AF12125-DIM-UNV	LED	6231 lm	3500 K	277 V	48.0 W	RECESSED IN T-BAR	2'x4' RECESSED STATIC LED TROFFER; FROSTED ACRYLIC LENS, 0-10V DIMMING DRIVER
N1E	HE WILLIAMS	50G-S24-L59/835-S-AF12125-DIM-UNV-EM/10W	LED	6231 lm	3500 K	277 V	48.0 W	RECESSED IN T-BAR	SIMILAR TO TYP "N1" EXCEPT WITH 10W EMERGENCY BATTERY.
R1	HE WILLIAMS	6DR-TL-L10/835-DIM-UNV-OW-OF-CS-N-F1	LED	1000 lm	3500 K	277 V	8.7 W	RECESSED	6" DOWNLIGHT - ROUND; 0-10V DIMMING DRIVER, OPEN REFLECTOR, WIDE DISTRIBUTION, CLEAR SEMI-SPECULAR ANODIZED REFLECTOR FINISH;
T1	FINELITE	HP-2-P-ID-8'-S-S-835-T-F-96LG-277-DC-FC-10%-FA50-C4-FE-XX	LED	5720 lm	3500 K	277 V	56.0 W	SUSPENDED @ 10-0" AFF TO BOTTOM OF FIXTURE, UNO	8FT. INDIRECT/DIRECT HIGH PERFORMANCE PENDANT; 0-10V DIMMING DRIVER.
T1E	FINELITE	HP-2-P-ID-8'-S-S-835-T-F-96LG-277-DC-FC-10%-FA50-C4-FE-XX-LGD 10W	LED	5720 lm	3500 K	277 V	56.0 W	SUSPENDED @ 10-0" AFF TO BOTTOM OF FIXTURE, UNO	SIMILAR TO TYPE "T1" EXCEPT WITH 10W BATTERY BACK-UP
V1	HE WILLIAMS	50F-S14-L45/835-S-X21-PA250-VLF-DIM-UNV	LED	4311 lm	3500 K	277 V	33.7 W		1'x4' RECESSED VANDAL RESISTANT LED LUMINAIRE; VANDAL RESISTANT LENS; 0-10V DIMMING DRIVER.
X1	HE WILLIAMS	EXIT/CA-G-AF-BA-EM-SDT-D	LED	0 lm	0 K	277 V	4.4 W	CEILING	BRUSHED ALUMINUM LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP AND SELF-DIAGNOSTIC TEST, GREEN LETTERS, SINGLE OR DOUBLE FACE WITH DIRECTIONAL ARROWS PER PLAN.
X2	HE WILLIAMS	EXIT/CA-G-AF-BA-EM-SDT-D	LED	0 lm	0 K	277 V	4.4 W	WALL	BRUSHED ALUMINUM LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP AND SELF-DIAGNOSTIC TEST, GREEN LETTERS, SINGLE OR DOUBLE FACE WITH DIRECTIONAL ARROWS PER PLAN.

LIGHTING FIXTURE SCHEDULE - SITE (NON -DETENTION TYPE)

TYPE	MANUFACTURER	MODEL	LAMP	LUMENS	COLOR TEMPERATURE	VOLTS	WATTS	MOUNTING	DESCRIPTION
S2	LEOTEK	AR18-96N-MV-NW-2-XX-250-RPA	LED	25670 lm	4000 K	277 V	170.0 W	POLE @ +25' AFG	SINGLE HEAD POLE MOUNTED LUMINARE, TYPE 2 DISTRIBUTION. PROVIDE WITH STEEL ROUND POLE: KW #RSP22.5'-4.0-11-(F)-PTC-BC.
S4	LEOTEK	AR18-96N-MV-NW-4-XX-250-RPA	LED	25670 lm	4000 K	277 V	170.0 W	POLE @ +25' AFG	SINGLE HEAD POLE MOUNTED LUMINARE, TYPE 4 DISTRIBUTION. PROVIDE WITH STEEL ROUND POLE: KW #RSP22.5'-4.0-11-(F)-PTC-BC.
S5	LEOTEK	AR18-96N-MV-NW-5-XX-250-RPA	LED	25670 lm	4000 K	277 V	170.0 W	POLE @ +25' AFG	SINGLE HEAD POLE MOUNTED LUMINARE, TYPE 5 DISTRIBUTION. PROVIDE WITH STEEL ROUND POLE: KW #RSP22.5'-4.0-11-(F)-PTC-BC.
W1	LEOTEK	ES1-24H-MV-NW-FT-XX-530	LED	5458 lm	4000 K	277 V	43.0 W	WALL @ +14'-6" AFG, UNO	WALL MOUNTED LED LUMINAIRE, FORWARD THROW DISTRIBUTION.
W1E	LEOTEK	ES1-24H-MV-NW-FT-XX-530-EM	LED	5458 lm	4000 K	277 V	43.0 W	WALL @ +14'-6" AFG, UNO	SIMILAR TO TYPE "W1" EXCEPT WITH EMERGENCY BATTERY SYSTEM.
W2	LEOTEK	ES1-24H-MV-NW-W-XX-530	LED	4541 lm	4000 K	277 V	44.0 W	WALL @ +14'-6" AFG, UNO	WALL MOUNTED LED LUMINAIRE, WIDE THROW DISTRIBUTION
W2E	LEOTEK	ES1-24H-MV-NW-W-XX-530-EM	LED	4541 lm	4000 K	277 V	45.0 W		SIMILAR TO TYPE "W2" EXCEPT WITH EMERGENCY BATTERY SYSTEM
W4	METEOR LIGHTING	LA4-20-408-UNV-STV-WD-WD-XXX-OUT	LED	1458 lm	4000 K	277 V	20.0 W	COLUMN @ +8'-0" AFG	UP/DOWN OUTDOOR LUMINAIRE, , 0-10V DIMMING, WIDE BEAM ANGLE (UP AND DOWN).
W4E	METEOR LIGHTING	LA4-20-408-UNV-STV-WD-WD-XXX-OUT + REMOTE EMERGENCY INVERTER	LED	1458 lm	4000 K	277 V	20.0 W	COLUMN @ +8'-0" AFG	SIMILAR TO TYPE "W4" EXCEPT WITH REMOTE 50W MICRO INVERTER AND REMOTE TEST SWITCH (MYERS LVU-5-RT).
W5	B-K LIGHTING	SN-36-L-LED-e66-MFL-A9-XXX-13-11-A-PC-TRe20	LED	456 lm	4000 K	277 V	7.0 W	WALL @ +12' ABOVE MONO COUNTY SIGN	SIGN LIGHT. 36" STEM, MEDIUM FLOOD OPTICS, 45 DEG CAP, PWER CANOPY WITH ELECTRONIC TRANSFORMER.

DRAFT

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221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
LIGHTING FIXTURE SCHEDULES

SHEET
E-761

V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
BIM 360://018133 Mono Jail/18113_ELECMSTR_R20_CENTRAL.rvt
8/25/2023 11:19:42 AM

Panel: EG

Location: | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10K
Supply From: EDP | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1 | **MCB Rating:** 60 A

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		BATTERY CHARGER	20 A	1	1,200			0			1	20 A	SPARE	--	2
3		BLOCK HEATER	20 A	2		1,250			0		1	20 A	SPARE	--	4
5	--	--	--	--			1,250			0	1	20 A	SPARE	--	6
7		RECEPTACLES	20 A	1	360			0			1	20 A	SPARE	--	8
9		LIGHTS	20 A	1		200			0		1	20 A	SPARE	--	10
11	--	SPARE	20 A	1			0			0	1	20 A	SPARE	--	12
			Total Load:		1,560 VA		1,450 VA		1,250 VA						
			Total Amps:		13 A		12 A		10 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	4260 VA	100.00%	4260 VA		
				Total Conn. Load:	4,260 VA
				Total Est. Demand:	4,260 VA
				Total Conn. Current:	12 A
				Total Est. Demand Current:	12 A

Notes:

Panel: EL1A1

Location: ATS 319 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10K
Supply From: EDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		GATE OPERATOR	25 A	2	1,373			360			1	20 A	RECEPT Room 426, 424		2
3	--	--	--	--		1,373			180		1	20 A	FIRE SPRINKLER BELL	1	4
5		RECEPT CPAP, TV ISOLATION 218	20 A	1			480			180	1	20 A	RECEPT MECH 419		6
7	[3]	RECEPT 10 BED DORM 227	20 A	1	560			360			1	20 A	RECEPT Room 318, 319		8
9		OPERABLE WINDOWS	20 A	1		773			540		1	20 A	RECEPT LOW VOLT 326		10
11	[3]	RECEPT Room 302, 304	20 A	1			660			2,880	1	30 A	DATA RACK LOW VOLT 326		12
13	[3]	RECEPT 4 BED RORM 308	20 A	1	480			2,880			1	30 A	DATA RACK LOW VOLT 326		14
15	[3]	RECEPT 10 BED DROM 328	20 A	1		560			2,880		1	30 A	DATA RACK LOW VOLT 326		16
17	[3]	RECEPT DAY ROOM 400	20 A	1			200			2,880	1	30 A	DATA RACK LOW VOLT 326		18
19	[3]	RECEPT Room 402, 404	20 A	1	360			540			1	20 A	RECEPT CENTRAL CONTROL 223		20
21	[3]	RECEPT DAY ROOM 428	20 A	1		200			1,200		1	20 A	ACCESS CONTROL SYSTEM		22
23		LIGHTING CONTROL CABINET "LCC"	20 A	1			200			1,200	1	20 A	ACCESS CONTROL SYSTEM		24
25		SEC ELEC 327 CABINET - ELEC. SEC.	20 A	1	1,200			1,200			1	20 A	ACCESS CONTROL SYSTEM		26
27		SEC ELEC 327 CABINET - ELEC. SEC.	20 A	1		1,200			540		1	20 A	RECEPT SEC ELEC 327		28
29		SEC ELEC 327 CABINET - ELEC. SEC.	20 A	1			1,200			600	1	20 A	REFRIGERATOR CENTRAL CNTRL...		30
31		SEC ELEC 327 CABINET - ELEC. SEC.	20 A	1	1,200			400			1	20 A	FIRE ALARM CONTROL PANEL	1	32
33		SEC ELEC 327 CABINET - ELEC. SEC.	20 A	1		1,200			400		1	20 A	FA WORKSTATION	1	34
35	--	SPARE	20 A	1			0			0	1	20 A	SPARE	--	36
37	--	SPARE	20 A	1	0			0			1	20 A	SPARE	--	38
39	--	SPARE	20 A	1		0			0		1	20 A	SPARE	--	40
41	--	SPARE	20 A	1			0			0	1	20 A	SPARE	--	42
43	--	SPACE	--	--	0			0			--	--	SPACE	--	44
45	--	SPACE	--	--		0			0		--	--	SPACE	--	46
47	--	SPACE	--	--			0			0	--	--	SPACE	--	48
49	--	SPACE	--	--	0			0			3	30 A	SPD [2]	--	50
51	--	SPACE	--	--		0			0		--	--	--	--	52
53	--	SPACE	--	--			0			0	--	--	--	--	54
			Total Load:		10,913 VA		11,044 VA		10,480 VA						
			Total Amps:		91 A		93 A		87 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	2746 VA	125.00%	3432 VA		
CONTINUOUS	180 VA	125.00%	225 VA	**Total Conn. Load:**	32,437 VA
Other	21720 VA	100.00%	21720 VA	**Total Est. Demand:**	33,166 VA
Power	780 VA	100.00%	780 VA	**Total Conn. Current:**	90 A
RECEPT	7020 VA	100.00%	7020 VA	**Total Est. Demand Current:**	92 A

Notes:
[1] PROVIDE DEDICATED CIRCUIT BREAKER AFFIXED WITH RED MARKING LABELING AND BREAKER LOCK AS REQUIRED BY CFC/CBC 907, NFPA 72 10.6 AND CEC 760. [2] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE. [3] PROVIDE GFCI CIRCUIT BREAKER.

Panel: EL1A2

Location: ATS 319 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10K
Supply From: EDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		EF-3	15 A	1	667			2,000			1	20 A	WATER MANAGEMENT...		2
3		EF-4	15 A	1		667			2,000		1	20 A	WATER MANAGEMENT...		4
5		EF-5	15 A	1			667			2,000	1	20 A	WATER MANAGEMENT...		6
7		EF-6	20 A	1	1,127			2,000			1	20 A	WATER MANAGEMENT...		8
9		EF-7	20 A	1		1,127			1,140		1	20 A	WATER HEATER GWH-1		10
11		SCU-1	40 A	2			2,496			1,080	1	20 A	WATER HEATER GHW-2		12
13	--	--	--	--	2,496			500			1	20 A	BMS MECH 419		14
15		SCU-2	30 A	2		2,080			1,260		1	20 A	FSDs	1	16
17	--	--	--	--			2,080			1,260	1	20 A	FSDs	1	18
19		KEF-1	30 A	2	1,373			840			1	15 A	CONDENSATE PUMP Room 327, 326		20
21	--	--	--	--		1,373			720		1	20 A	FSDs	1	22
23	--	SPARE	20 A	1			0			0	1	20 A	SPARE	--	24
25	--	SPARE	20 A	1	0			0			1	20 A	SPARE	--	26
27	--	SPARE	20 A	1		0			0		1	20 A	SPARE	--	28
29	--	SPARE	20 A	1			0			0	1	20 A	SPARE	--	30
31	--	SPACE	--	--	0			0			--	--	SPACE	--	32
33	--	SPACE	--	--		0			0		--	--	SPACE	--	34
35	--	SPACE	--	--			0			0	--	--	SPACE	--	36
37	--	SPACE	--	--	0			0			--	--	SPACE	--	38
39	--	SPACE	--	--		0			0		--	--	--	--	40
41	--	SPACE	--	--			0			0	--	--	--	--	42
			Total Load:		11,003 VA		10,367 VA		9,583 VA						
			Total Amps:		93 A		87 A		80 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
CONTINUOUS	2220 VA	125.00%	2775 VA		
HVAC	16993 VA	107.34%	18241 VA	**Total Conn. Load:**	30,953 VA
Other	11740 VA	100.00%	11740 VA	**Total Est. Demand:**	32,756 VA
				Total Conn. Current:	86 A
				Total Est. Demand Current:	91 A

Notes:
[1] PROVIDE DEDICATED CIRCUIT BREAKER AFFIXED WITH RED MARKING LABELING AND BREAKER LOCK AS REQUIRED BY CFC/CBC 907, NFPA 72 10.6 AND CEC 760. [2] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE.

Panel: EH1B

Location: ELEC 122 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35K
Supply From: EH1A | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		SITE LIGHTING	20 A	1	1,870			0			1	20 A	SPARE	--	2
3		LIGHTING- EXTERIOR BUILDING	20 A	1		870			0		1	20 A	SPARE	--	4
5		LIGHTING ELEC, MDF, CORRIDOR	20 A	1			749			0	1	20 A	SPARE	--	6
7	--	SPARE	20 A	1	0			0			1	20 A	SPARE	--	8
9	--	SPARE	20 A	1		0			0		1	20 A	SPARE	--	10
11	--	SPARE	20 A	1			0			0	1	20 A	SPARE	--	12
13	--	SPACE	--	--	0			0			--	--	SPACE	--	14
15	--	SPACE	--	--		0			0		--	--	SPACE	--	16
17	--	SPACE	--	--			0			0	--	--	SPACE	--	18
19	--	SPACE	--	--	0			0			--	--	SPACE	--	20
21	--	SPACE	--	--		0			0		--	--	SPACE	--	22
23	--	SPACE	--	--			0			0	--	--	SPACE	--	24
25	--	SPACE	--	--	0			0			3	30 A	SPD [1]	--	26
27	--	SPACE	--	--		0			0		--	--	NOT USED	--	32
29	--	SPACE	--	--			0			0	--	--	NOT USED	--	34
31	[2]	TRANSFORMER TEL2	125 A	3	19,105			0			--	--	NOT USED	--	36
33	--	--	--	--		19,287			0		--	--	NOT USED	--	34
35	--	--	--	--			17,415			0	--	--	NOT USED	--	36
			Total Load:		20,806 VA		20,157 VA		18,128 VA						
			Total Amps:		76 A		74 A		65 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	3424 VA	125.00%	4281 VA		
Motor	6906 VA	109.94%	7593 VA	**Total Conn. Load:**	59,082 VA
CONTINUOUS	180 VA	125.00%	225 VA	**Total Est. Demand:**	61,177 VA
HVAC	7340 VA	114.17%	8380 VA	**Total Conn. Current:**	71 A
Other	30404 VA	100.00%	30404 VA	**Total Est. Demand Current:**	74 A
RECEPT	10990 VA	95.50%	10495 VA		
LTG	0 VA	0.00%	0 VA		

Notes:
[1] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE. [2] PROVIDE SUB-FEED BREAKER.

Panel: EH3A

Location: ATS 319 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35K
Supply From: ATS2 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** 150 A

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		AC-2 FANS & POWER EXHAUST	15 A	3	1,856			1,745			3	15 A	AC-8 FANS & POWER EXHAUST		2
3	--	--	--	--		1,856			1,745		--	--	--	--	4
5	--	--	--	--			1,856			1,745	--	--	--	--	6
7		AC-4 FANS & POWER EXHAUST	15 A	3	1,579			2,914			3	20 A	MAU-1		8
9	--	--	--	--		1,579			2,914		--	--	--	--	10
11	--	--	--	--			1,579			2,914	--	--	--	--	12
13		AC-5 FANS & POWER EXHAUST	20 A	3	1,745			0			1	20 A	SPARE	--	14
15	--	--	--	--		1,745			0		1	20 A	SPARE	--	16
17	--	--	--	--			1,745			0	1	20 A	SPARE	--	18
19		AC-6 FANS & POWER EXHAUST	15 A	3	1,856			0			1	20 A	SPARE	--	20
21	--	--	--	--		1,856			0		1	20 A	SPARE	--	22
23	--	--	--	--			1,856			0	1	20 A	SPARE	--	24
25		AC-7 FANS & POWER EXHAUST	15 A	3	1,856			0			1	20 A	SPARE	--	26
27	--	--	--	--		1,856			0		1	20 A	SPARE	--	28
29	--	--	--	--			1,856			0	--	--	SPACE	--	30
31	--	SPACE	--	--	0			0			--	--	SPACE	--	32
33	--	SPACE	--	--		0			0		--	--	SPACE	--	34
35	--	SPACE	--	--			0			0	--	--	SPACE	--	36
37		PANEL EH3B	100 A	3	4,155			0			3	30 A	SPD [1]	--	38
39	--	--	--	--		4,155			0		--	--	--	--	40
41	--	--	--	--			4,155			0	--	--	--	--	42
			Total Load:		17,706 VA		17,706 VA		17,706 VA						
			Total Amps:		64 A		64 A		64 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	0 VA	0.00%	0 VA		
HVAC	53118 VA	104.11%	55303 VA	**Total Conn. Load:**	53,118 VA
				Total Est. Demand:	55,303 VA
				Total Conn. Current:	64 A
				Total Est. Demand Current:	67 A

Notes:
[1] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE.

Panel: EH3B

Location: ELEC 122 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35K
Supply From: EH3A | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		AC-1 FANS & POWER EXHAUST	15 A	3	2,299			0			1	20 A	SPARE	--	2
3	--	--	--	--		2,299			0		1	20 A	SPARE	--	4
5	--	--	--	--			2,299			0	1	20 A	SPARE	--	6
7		AC-3 FANS & POWER EXHAUST	15 A	3	1,856			0			1	20 A	SPARE	--	8
9	--	--	--	--		1,856			0		1	20 A	SPARE	--	10
11	--	--	--	--			1,856			0	1	20 A	SPARE	--	12
13		SEWAGE GRINER	15 A	3	0			0			--	--	SPACE	--	14
15	--	--	--	--		0			0		--	--	SPACE	--	16
17	--	--	--	--			0			0	--	--	SPACE	--	18
19	--	SPACE	--	--	0			0			--	--	SPACE	--	20
21	--	SPACE	--	--		0			0		--	--	SPACE	--	22
23	--	SPACE	--	--			0			0	--	--	SPACE	--	24
25	--	SPACE	--	--	0			0			3	30 A	SPD [1]	--	26
27	--	SPACE	--	--		0			0		--	--	--	--	28
29	--	SPACE	--	--			0			0	--	--	--	--	30
			Total Load:		4,155 VA		4,155 VA		4,155 VA						
			Total Amps:		15 A		15 A		15 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	0 VA	0.00%	0 VA		
HVAC	12465 VA	113.83%	14189 VA	**Total Conn. Load:**	12,465 VA
				Total Est. Demand:	14,189 VA
				Total Conn. Current:	15 A
				Total Est. Demand Current:	17 A

Notes:
[1] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE.

LOAD CALCULATION - MAIN SWITCHBOARD "MSB"

LOCATION: ELECT 318 | **SUPPLY FROM:**
VOLTAGE: 480/277 Wye | **A.I.C. RATING:** 65K
AMPERE RATING: 800 A | **BUSSING:** 800
MAIN TYPE: MCB | **ENCLOSURE TYPE:** NEMA 1 Indoor
MOUNTING: FLOOR | **ISOLATED GROUND:** No

CKT	LOAD DESCRIPTION	LOAD (VA)
1	PANEL H1	74,481
2	PANEL H2	32,928
3	TRANSFORMER TDPL	113,177
4	AUTOMATIC TRANSFER SWITCH ATS1	212,825
5	AUTOMATIC TRANSFER SWITCH ATS2	53,118
6		
7		
8		
9		
10		
	TOTAL CONNECTED LOAD (VA):	486,449 VA
	TOTAL ESTIMATED DEMAND (VA):	458953 VA
	TOTAL CONNECTED LOAD (A):	585 A
	TOTAL ESTIMATED DMEAND CURRENT (A):	552 A

NOTES:

LOAD CALCULATION - DISTRIBUTION PANEL DPL

LOCATION: ELECT 318 | **SUPPLY FROM:** TDPL
VOLTAGE: 120/208 Wye | **A.I.C. RATING:** 10K
AMPERE RATING: 450 A | **BUSSING:** 600
MAIN TYPE: MCB | **ENCLOSURE TYPE:** NEMA 1 Indoor
MOUNTING: Surface | **ISOLATED GROUND:** No

CKT	LOAD DESCRIPTION	LOAD (VA)
1	PANEL L1A	17,687
2	PANEL L1B	57,904
3	PANEL L2A	24,182
4	PANEL L2EV	14,400
5		
6		
7		
8		
9		
10		
	TOTAL CONNECTED LOAD (VA):	113,177 VA
	TOTAL ESTIMATED DEMAND (VA):	88704 VA
	TOTAL CONNECTED LOAD (A):	314 A
	TOTAL ESTIMATED DMEAND CURRENT (A):	246 A

NOTES:

LOAD CALCULATION - DISTRIBUTION PANEL EDP

LOCATION: ATS 319 | **SUPPLY FROM:** TEL1
VOLTAGE: 120/208 Wye | **A.I.C. RATING:** 10K
AMPERE RATING: 450 A | **BUSSING:** 600
MAIN TYPE: MCB | **ENCLOSURE TYPE:** NEMA 1 Indoor
MOUNTING: Surface | **ISOLATED GROUND:**

CKT	LOAD DESCRIPTION	LOAD (VA)
1	RADIO SHELTER	33,334
2	SECURITY ELECTRONICS UPS (LVSE)	19,780
3	PANEL EL1A1	32,437
4	PANEL EL1A2	30,953
5	PANEL ELK	27,994
6	PANEL EG	4,260
7		
8		
9		
10		
	TOTAL CONNECTED LOAD (VA):	148,757 VA
	TOTAL ESTIMATED DEMAND (VA):	150917 VA
	TOTAL CONNECTED LOAD (A):	413 A
	TOTAL ESTIMATED DEMAND CURRENT (A):	419 A

NOTES:

Panel: EH1A

Location: ATS 319 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35K
Supply From: ATS1 | **Phases:** 3 | **Mains Type:** MCB
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 400 A
Enclosure: Type 1 | **MCB Rating:** 350 A

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		LIGHTING DAY ROOM 400	20 A	1	442			0			1	20 A	SPARE	--	2
3		LIGHTING DAY ROOM 428	20 A	1		442			0		1	20 A	SPARE	--	4
5		LIGHTING ELECT, ATS, KITCHEN	20 A	1			1,614			0	1	20 A	SPARE	--	6
7		LIGHTING CORRIDORS, SALLY	20 A	1	1,614			0			1	20 A	SPARE	--	8
9		LIGHTING 10 BED DORM 328	20 A	1		276			0		1	20 A	SPARE	--	10
11		LIGHTING 10 BED DORM 227	20 A	1			138			0	1	20 A	SPARE	--	12
13		LIGHTING VEHICLE SALLY 238	20 A	1	713			0			1	20 A	SPARE	--	14
15	--	SPACE	--	--		0			0		1	20 A	SPARE	--	16
17	--	SPACE	--	--			0			0	1	20 A	SPARE	--	18
19	--	SPACE	--	--	0			0			--	--	SPACE	--	20
21	--	SPACE	--	--		0			0		--	--	SPACE	--	22
23	--	SPACE	--	--			0			0	--	--	SPACE	--	24
25		PANEL EH1B	150 A	3	20,806			0			3	30 A	SPD [1]	--	26
27	--	--	--	--		20,157			0		--	--	--	--	28
29	--	--	--	--			18,128			0	--	--	--	--	30
31	[2]	TRANSFORMER TEL1	225 A	3	52,884			0			--	--	NOT USED	--	32
33	--	--	--	--		48,884			0		--	--	NOT USED	--	34
35	--	--	--	--			46,989			0	--	--	NOT USED	--	36
			Total Load:		76,323 VA		69,724 VA		66,785 VA						
			Total Amps:		277 A		253 A		241 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	8553 VA	125.00%	10691 VA		
Motor	32286 VA	107.97%	34860 VA	**Total Conn. Load:**	212,825 VA
CONTINUOUS	4483 VA	125.00%	5604 VA	**Total Est. Demand:**	211,600 VA
HVAC	24333 VA	105.13%	25581 VA	**Total Conn. Current:**	256 A
Other	116228 VA	100.00%	116228 VA	**Total Est. Demand Current:**	255 A
Power	780 VA	100.00%	780 VA		
RECEPT	26470 VA	68.89%	18235 VA		
LTG	101 VA	125.00%	126 VA		

Notes:
[1] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE. [2] PROVIDE THROUGH-FEED LUGS.

Draft

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SEPTEMBER 11, 2023

MANAGEMENT

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SHEET
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IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
BIM 360://018133 Mono Jail/18113_ELECMSTR_R20_CENTRAL.rvt
8/25/2023 11:19:47 AM

Panel: L1B

Location: ELECT 318 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10K
Supply From: DPL | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		CAN OPENER (#5)	20 A	1	480			1,380			1	20 A	BLENDER (#7)		2
3		AUTOMATIC SLICER (#11)	20 A	1		672			1,140		1	20 A	30 QT MIXER (#12)		4
5		JUICE DISPENSER (#15)	20 A	1			720			1,788	1	20 A	CONVEYOR TOASTER (#16)		6
7		DROP IN HOT/COLD WELLS (#36)	20 A	2	1,508			960			1	20 A	RECEPT - WORK TABLE (#18)		8
9	--	--	--	--		1,508			960		1	20 A	RECEPT- TRAY DISH UP CNTR (#35)		10
11		FOOD PROCESSOR (#6)	20 A	1			840			960	1	20 A	EXHAUST HOOD (#26)		12
13		RECEPT- WORK TABLE (#8)	20 A	1	960			2,700			3	30 A	COFFEE BREWER (#17)		14
15	2	FRYER (#25)	50 A	3		5,760			2,700		--	--	--	--	16
17	--	--	--	--			5,760			2,700	--	--	--	--	18
19	--	--	--	--	5,760			6,216			3	70 A	DISHMACHINE (#46)	1	20
21	--	SHUNT TRIP	--	--		0			6,216		--	--	--	--	22
23	--	SPARE	20 A	1			0			6,216	--	--	--	--	24
25	--	SPARE	20 A	1	0			0			1	20 A	SPARE	--	26
27	--	SPARE	20 A	1		0			0		1	20 A	SPARE	--	28
29	--	SPARE	20 A	1			0			0	1	20 A	SPARE	--	30
31	--	SPARE	20 A	1	0			0			--	--	SPACE	--	32
33	--	SPARE	20 A	1		0			0		--	--	SPACE	--	34
35	--	SPARE	20 A	1			0			0	--	--	SPACE	--	36
37	--	SPACE	--	--	0			0			--	--	SPACE	--	38
39	--	SPACE	--	--		0			0		--	--	SPACE	--	40
41	--	SPACE	--	--			0			0	--	--	SPACE	--	42
			Total Load:		19,964 VA	18,956 VA		18,984 VA							
			Total Amps:		166 A	158 A		158 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	960 VA	100.00%	960 VA		
RECEPT	3360 VA	100.00%	3360 VA	**Total Conn. Load:**	57,904 VA
				Total Est. Demand:	39,150 VA
				Total Conn. Current:	161 A
				Total Est. Demand Current:	109 A

Notes:
[1] PROVIDE BREAKER WITH LOCK-OFF DEVICE. [2] PROVIDE SHUNT TRIP CIRCUIT BREAKER.

Panel: L2A

Location: ELEC 122 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10K
Supply From: DPL | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		RECEPT- ROOF	20 A	1	900			1,152			1	20 A	RH-1, RH-2		2
3		IRRIGATION CONTROLLER	20 A	1		240			1,152		1	20 A	RH-3, RH-4		4
5		RECEPT BREAK 121	20 A	1			180			360	1	20 A	VIDEO VISITATION LOBBY 100		6
7		RECEPT BREAK 121	20 A	1	180			900			1	20 A	RECEPT LOBBY 100		8
9		RECEPT BREAK 121	20 A	1		180			370		1	20 A	DRINKING FOUNTAIN LOBBY 100		10
11		RECEPT Room 120, 121, 123	20 A	1			933			720	1	20 A	RECEPT Room 101, 102, 103		12
13		RECEPT TRAINING 117	20 A	1	1,068			540			1	20 A	RECEPT VEHICLE SALLY 238		14
15		RECEPT TRAINING 117	20 A	1		720			720		1	20 A	RECEPT Room 231, 228, 233		16
17		RECEPT SGT OFFICE 114	20 A	1			1,252			900	1	20 A	RECEPT Room 220, 235, 234, 236		18
19		RECEPT LT OFFICE 112	20 A	1	1,432			180			1	20 A	VACUUM SEALER PROPERTY 203		20
21		RECEPT CONFERENCE 110	20 A	1		1,792			1,080		1	20 A	RECEPT Room 203, 205, 202, 200, 204		22
23		RECEPT ADMIN 108	20 A	1			900			1,260	1	20 A	RECEPT Room 208, 201, 207, 206		24
25		RECEPT Room 111, 109, 115, 116, 113	20 A	1	1,080			900			1	20 A	RECEPT PROGRAM 226		26
27		COPIER WORK ROOM 113	20 A	1		180			1,080		1	20 A	RECEPT PROGRAM 226		28
29		FLAG POLE LIGHT	20 A	1			200			720	1	20 A	RECEPT Room 225, 226		30
31	--	SPARE	20 A	1	0			720			1	20 A	RECEPT PROGRAM 225		32
33	--	SPARE	20 A	1		0			200		1	20 A	MECHO SHADES PANEL ELEC 122		34
35	--	SPARE	20 A	1			0			0	1	20 A	SPARE	--	36
37	--	SPARE	20 A	1	0			0			1	20 A	SPARE	--	38
39	--	SPARE	20 A	1		0			0		1	20 A	SPARE	--	40
41	--	SPARE	20 A	1			0			0	--	--	SPACE	--	42
43	--	SPACE	--	--	0			0			--	--	SPACE	--	44
45	--	SPACE	--	--		0			0		--	--	SPACE	--	46
47	--	SPACE	--	--			0			0	--	--	SPACE	--	48
49	--	SPACE	--	--	0			0			--	--	SPACE	--	50
51	--	SPACE	--	--		0			0		--	--	SPACE	--	52
53	--	SPACE	--	--			0			0	--	--	SPACE	--	54
			Total Load:		9,047 VA	7,713 VA		7,423 VA							
			Total Amps:		76 A	65 A		62 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	200 VA	125.00%	250 VA		
CONTINUOUS	3347 VA	125.00%	4184 VA	**Total Conn. Load:**	24,182 VA
Other	440 VA	100.00%	440 VA	**Total Est. Demand:**	20,142 VA
RECEPT	19850 VA	75.19%	14925 VA	**Total Conn. Current:**	67 A
COFFEE MAKER	360 VA	100.00%	360 VA	**Total Est. Demand Current:**	56 A

Notes:

Panel: H1

Location: ELECT 318 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35K
Supply From: "MSB" | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		AC-2 COMPRESSOR	25 A	3	5,485			3,158			3	15 A	AC-8 COMPRESSOR		2
3	--	--	--	--		5,485			3,158		--	--	--	--	4
5	--	--	--	--			5,485			3,158	--	--	--	--	6
7		AC-4 COMPRESSOR	20 A	3	3,850			489			1	20 A	LIGHTING DAYROOM 400 AND CELLS		8
9	--	--	--	--		3,850			489		1	20 A	LIGHTING DAYROOM 428 AND CELLS		10
11	--	--	--	--			3,850			733	1	20 A	LIGHTING JAN, MECH, STOR, CHASE		12
13		AC-5 COMPRESSOR	15 A	3	3,158			351			1	20 A	LIGHTING 10 BED DORM 328		14
15	--	--	--	--		3,158			446		1	20 A	LIGHTING ROOMS 302-309		16
17	--	--	--	--			3,158			351	1	20 A	LIGHTING 10 BED DORM 227		18
19		AC-6 COMPRESSOR	20 A	3	4,072			384			1	20 A	LIGHTING PROGRAM 225, 226		20
21	--	--	--	--		4,072			0		--	--	SPACE	--	22
23	--	--	--	--			4,072			0	--	--	SPACE	--	24
25		AC-7 COMPRESSOR	20 A	3	4,072			0			--	--	SPACE	--	26
27	--	--	--	--		4,072			0		--	--	SPACE	--	28
29	--	--	--	--			4,072			0	--	--	SPACE	--	30
31	--	SPARE	20 A	1	0			0			--	--	SPACE	--	32
33	--	SPARE	20 A	1		0			0		--	--	SPACE	--	34
35	--	SPARE	20 A	1			0			0	--	--	SPACE	--	36
37	--	SPARE	20 A	1	0			0			--	--	SPACE	--	38
39	--	SPARE	20 A	1		0			0		--	--	SPACE	--	40
41	--	SPARE	20 A	1			0			0	--	--	SPACE	--	42
			Total Load:		24,960 VA	24,684 VA		24,836 VA							
			Total Amps:		90 A	89 A		90 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	3243 VA	125.00%	4054 VA		
HVAC	71383 VA	105.76%	75496 VA	**Total Conn. Load:**	74,481 VA
				Total Est. Demand:	79,370 VA
				Total Conn. Current:	90 A
				Total Est. Demand Current:	95 A

Notes:

Panel: H2

Location: ELEC 122 | **Volts:** 480/277 Wye | **A.I.C. Rating:** 35K
Supply From: "MSB" | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		AC-1 COMPRESSOR	25 A	3	6,205			42			1	20 A	BUILDING SIGN LIGHTING		2
3	--	--	--	--		6,205			196		1	20 A	LIGHTING OUTDOOR REC 329		4
5	--	--	--	--			6,205			1,038	1	20 A	LIGHTING EXAM, PROCESS,...		6
7		AC-3 COMPRESSOR	20 A	3	4,072			913			1	20 A	LIGHTING ADMIN, LOBBY		8
9	--	--	--	--		4,072			0		--	--	SPACE	--	10
11	--	--	--	--			4,072			0	--	--	SPACE	--	12
13	--	SPARE	20 A	1	0			0			--	--	SPACE	--	14
15	--	SPARE	20 A	1		0			0		--	--	SPACE	--	16
17	--	SPARE	20 A	1			0			0	--	--	SPACE	--	18
19	--	SPARE	20 A	1	0			0			--	--	SPACE	--	20
21	--	SPARE	20 A	1		0			0		--	--	SPACE	--	22
23	--	SPARE	20 A	1			0			0	--	--	SPACE	--	24
25	--	SPACE	--	--	0			0			--	--	SPACE	--	26
27	--	SPACE	--	--		0			0		--	--	SPACE	--	28
29	--	SPACE	--	--			0			0	--	--	SPACE	--	30
			Total Load:		11,189 VA	10,463 VA		11,277 VA							
			Total Amps:		41 A	38 A		41 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	2186 VA	125.00%	2733 VA		
HVAC	30830 VA	115.09%	35484 VA	**Total Conn. Load:**	32,928 VA
				Total Est. Demand:	38,106 VA
				Total Conn. Current:	40 A
				Total Est. Demand Current:	46 A

Notes:

Panel: L1A

Location: ELECT 318 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10K
Supply From: DPL | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		RECEPT- ROOF	20 A	1	900			219			1	20 A	F-1		2
3		RECEPT- ROOF	20 A	1		900			1,800		3	30 A	WASHER/EXTRACTOR (#L5)	1	4
5		RECEPT Room 215, 217, 210, 214, 219	20 A	1			1,080			1,800	--	--	--	--	6
7		RECEPT Room 220, 221, 222, 224A,...	20 A	1	1,260			1,800			--	--	--	--	8
9		RECEPT Room 323, 315, 320, 316, 314	20 A	1		1,080			1,128		1	20 A	DETERGENT PUMP (#L5)	1	10
11		RECEPT Room 323, 301, 220, 314, 325	20 A	1			900			1,200	1	20 A	DRYER (#L9)	1	12
13		RECEPT Room 311, 313	20 A	1	720			0			1	20 A	SPARE	--	14
15		VIDEO VISITATION 10 BED DORM 328	20 A	1		360			0		1	20 A	SPARE	--	16
17		VIDEO VISITATION DAY ROOM 400	20 A	1			560			0	1	20 A	SPARE	--	18
19		VIDEO VISITATION DAY ROOM 428	20 A	1	540			0			1	20 A	SPARE	--	20
21		RECEPT Room 409, 420, 415, 401,...	20 A	1		1,080			0		1	20 A	SPARE	--	22
23		VIDEO VISITATION 10 BED DORM 227	20 A	1			360			0	1	20 A	SPARE	--	24
25	--	SPACE	--	--	0			0			1	20 A	SPARE	--	26
27	--	SPACE	--	--		0			0		1	20 A	SPARE	--	28
29	--	SPACE	--	--			0			0	1	20 A	SPARE	--	30
31	--	SPACE	--	--	0			0			1	20 A	SPARE	--	32
33	--	SPACE	--	--		0			0		--	--	SPACE	--	34
35	--	SPACE	--	--			0			0	--	--	SPACE	--	36
37	--	SPACE	--	--	0			0			--	--	SPACE	--	38
39	--	SPACE	--	--		0			0		--	--	SPACE	--	40
41	--	SPACE	--	--			0			0	--	--	SPACE	--	42
			Total Load:		5,439 VA	6,348 VA		5,900 VA							
			Total Amps:		45 A	53 A		50 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	6528 VA	120.68%	7878 VA		
HVAC	219 VA	125.00%	273 VA	**Total Conn. Load:**	17,687 VA
Other	1200 VA	100.00%	1200 VA	**Total Est. Demand:**	19,091 VA
RECEPT	9740 VA	100.00%	9740 VA	**Total Conn. Current:**	49 A
				Total Est. Demand Current:	53 A

Notes:
[1] PROVIDE CIRCUIT BREAKER WITH LOCK-OFF DEVICE.

Panel: EL2B1

Location: ELEC 122 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10K
Supply From: TEL2 | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 | **MCB Rating:** 225 A

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1	--	SPARE	20 A	1	0			200			1	20 A	LIGHTING CONTROL CABINET "LCC"		2
3		AUTOMATIC DOOR OPERATOR	20 A	1		660			1,250		1	20 A	REFRIGERATOR BREAK 121		4
5		GATE OPERATOR	25 A	2			1,373			1,020	1	20 A	RECEPT Room 110, 113, 114, 112		6
7	--	--	--	--	1,373			1,272			1	20 A	RECEPT Room 108, 100		8
9		RECEPT Room 119, 117, 122	20 A	1		1,020			600		1	20 A	UC FREEZER MEDS/ EQUIP 232		10
11		SERVER RACK MDF 119	30 A	1			2,880			600	1	20 A	UC REFRIGERATOR MEDS/ EQUIP...		12
13		SERVER RACK MDF 119	20 A	1	2,880			720			1	20 A	RECEPT MEDS/ EQUIP 232		14
15		DATA RACK MDF 119	20 A	1		2,200			720		1	20 A	RECEPT EXAM 237		16
17		DATA RACK MDF 119	20 A	1			2,200			900	1	20 A	RECEPT EXAM 237		18
19		DATA RACK MDF 119	20 A	1	2,200			1,080			1	20 A	RECEPT BOOKING 206		20
21		DATA RACK MDF 119	20 A	1		2,200			720		1	20 A	RECEPT Room 208, 206		22
23		DATA RACK MDF 119	20 A	1			2,200			900	1	20 A	RECEPT PROGRAM 225		24
25		DATA RACK MDF 119	20 A	1	2,200			0			1	20 A	SPARE	--	26
27		NG911 RACK MDF 119	30 A	2		2,000			0		1	20 A	SPARE	--	28
29	--	--	--	--			2,000			0	1	20 A	SPARE	--	30
31		NG911 RACK MDF 119	30 A	2	2,000			0			1	20 A	SPARE	--	32
33	--	--	--	--		2,000			0		1	20 A	SPARE	--	34
35		TELEPHONE BACKBOARD MDF 119	20 A	1			360			0	1	20 A	SPARE	--	36
37	--	SPARE	20 A	1	0			0			3	30 A	SPD [3]	--	38
39	--	SPARE	20 A	1		0			0		--	--	--	--	40
41	--	SPARE	20 A	1			0			0	--	--	--	--	42
43		PANEL EL2B2	100 A	3	5,181			0			--	--	NOT USED	--	44
45	--	--	--	--		5,917			0		--	--	NOT USED	--	46
47	--	--	--	--			2,982			0	--	--	NOT USED	--	48
			Total Load:		19,105 VA	19,287 VA		17,415 VA							
			Total Amps:		161 A	163 A		145 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	6906 VA	109.94%	7593 VA		
CONTINUOUS	180 VA	125.00%	225 VA	**Total Conn. Load:**	55,807 VA
HVAC	7340 VA	114.17%	8380 VA	**Total Est. Demand:**	57,082 VA
Other	30400 VA	100.00%	30400 VA	**Total Conn. Current:**	155 A
RECEPT	10990 VA	95.50%	10495 VA	**Total Est. Demand Current:**	158 A

Notes:
[1] PROVIDE PANEL WITH FEED-THRU LUGS. [2] PROVIDE DEDICATED CIRCUIT BREAKER AFFIXED WITH RED MARKING LABELING AND BREAKER LOCK AS REQUIRED BY CFC/CBC 907, NFPA 72 10.6 AND CEC 760. [3] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE. [4] PROVIDE SUB-FEED BREAKER.

Panel: EL2B2

Location: ELEC 122 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10K
Supply From: EL2B1 | **Phases:** 3 | **Mains Type:** MLO
Mounting: Surface | **Wires:** 4 | **Mains Rating:** 100 A
Enclosure: Type 1

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		SCU-3	30 A	2	2,080			500			1	20 A	WATER MANAGEMENT...		2
3	--	--	--	--		2,080			915		2	20 A	GATE OPERATOR VEHICLE SALLY...		4
5		EF-1	15 A	1			667			915	--	--	--	--	6
7		EF-2	15 A	1	506			915			2	20 A	GATE OPERATOR VEHICLE SALLY...		8
9		EF-8	30 A	1		1,587			915		--	--	--	--	10
11	2	FSDs	20 A	1			900			0	1	20 A	SPARE	--	12
13	2	FSDs	20 A	1	1,080			0			1	20 A	SPARE	--	14
15		CONDENSATE PUMP MDF 119	15 A	1		420			0		1	20 A	SPARE	--	16
17	3	SEWAGE GRINDER SUMP PUMP	20 A	1			500			0	1	20 A	SPARE	--	18
19		SEWAGE GRINDER ALARM PANEL	20 A	1	100			0			1	20 A	SPARE	--	20
21	2	CARBON MONOXIDE DETECTOR	20 A	1		360			0		1	20 A	SPARE	--	22
23	--	SPACE	--	--			0			0	1	20 A	SPARE	--	24
25	--	SPACE	--	--	0			0			3	30 A	SPD [1]	--	26
27	--	SPACE	--	--		0			0		--	--	--	--	28
29	--	SPACE	--	--			0			0	--	--	--	--	30
			Total Load:		5,181 VA	6,277 VA		2,982 VA							
			Total Amps:		46 A	55 A		25 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	4161 VA	111.00%	4618 VA		
HVAC	7340 VA	114.17%	8380 VA	**Total Conn. Load:**	14,441 VA
Other	2580 VA	100.00%	2580 VA	**Total Est. Demand:**	15,938 VA
Power	360 VA	100.00%	360 VA	**Total Conn. Current:**	40 A
				Total Est. Demand Current:	44 A

Notes:
[1] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE. [2] PROVIDE DEDICATED CIRCUIT BREAKER AFFIXED WITH RED MARKING LABELING AND BREAKER LOCK AS REQUIRED BY CFC/CBC 907, NFPA 72 10.6 AND CEC 760. [3] PROVIDE BREAKER WITH LOCK-OFF DEVICE.

Panel: ELK

Location: KITCHEN 314 | **Volts:** 120/208 Wye | **A.I.C. Rating:** 10k
Supply From: EDP | **Phases:** 3 | **Mains Type:** MLO
Mounting: Recessed | **Wires:** 4 | **Mains Rating:** 225 A
Enclosure: Type 1 [7]

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		REACH-IN REFRIGERATOR (#34)	20 A	1	456			800			1	20 A	FIRE SUPPRESSION SYSTEM (#23)	2	2
3	5	2-DECK CONVECTION OVEN (#33)	20 A	1		480			480		1	20 A	GRIDDLE / OVEN (#27)	5	4
5	--	SHUNT TRIP	--	--			0			0	--	--	SHUNT TRIP	--	6
7	5	OPEN BURNER RANGE / OVEN (#32)	20 A	1	480			3,432			3	20 A	Motor WALK-IN COOLER 433		8
9	--	SHUNT TRIP	--	--		0			3,432		--	--	--	--	10
11		WALK-IN COOLER/FREEZER (#2)	30 A	2			1,945			3,432	--	--	--	--	12
13	--	--	--	--	1,945			564			1	20 A	ICE MACHINE (#14)	4	14
15		WALK-IN COOLER/FREEZER (#2)	20 A	1		1,920			0		1	20 A	SPARE	--	16
17	6	WASHER/EXTRACTOR (#L5)	30 A	3			1,800			0	1	20 A	SPARE	--	18
19	--	--	--	--	1,800			0			1	20 A	SPARE	--	20
21	--	--	--	--		1,800			0		1	20 A	SPARE	--	22
23	6	DETERGENT PUMP (#L5)	20 A	1			1,128			0	1	20 A	SPARE	--	24
25	6	DRYER (#L9)	20 A	1	1,560			0			3	30 A	SPD [3]	--	26
27	6	LINT COLLECTOR (#L10)	20 A	1		540			0		--	--	--	--	28
29	--	SPARE	20 A	1	0			0		0	--	--	--	--	30
			Total Load:		11,037 VA	8,652 VA		8,305 VA							
			Total Amps:		92 A	73 A		69 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	22634 VA	111.37%	25208 VA		
CONTINUOUS	1920 VA	125.00%	2400 VA	**Total Conn. Load:**	27,994 VA
Other	3260 VA	100.00%	3260 VA	**Total Est. Demand:**	31,048 VA
RECEPT	180 VA	100.00%	180 VA	**Total Conn. Current:**	78 A
				Total Est. Demand Current:	86 A

Notes:
[1] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE. [2] PROVIDE DEDICATED CIRCUIT BREAKER AFFIXED WITH RED MARKING LABELING AND BREAKER LOCK AS REQUIRED BY CFC/CBC 907, NFPA 72 10.6 AND CEC 760. [3] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE. [4] PROVIDE HACR RATED CIRCUIT BREAKER. [5] PROVIDE SHUNT TRIP CIRCUIT BREAKER. [6] PROVIDE CIRCUIT BREAKER WITH LOCK-OFF DEVICE. [7] PROVIDE 304 STAINLESS STEEL BOX.

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
PANEL SCHEDULES

SHEET
E-772

V1

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT -

Panel: L2EV

Location: ELEC 122
Supply From: DPL
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Mains Type: MLO
Mains Rating: 225 A

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		EV CHARGER	40 A	2	3,600			0			--	--	SPACE (FUTURE EV)	--	2
3	--	--	--	--		3,600			0		--	--	SPACE (FUTURE EV)	--	4
5		EV CHARGER	40 A	2			3,600			0	--	--	SPACE (FUTURE EV)	--	6
7	--	--	--	--	3,600			0			--	--	SPACE (FUTURE EV)	--	8
9	--	SPACE (FUTURE EV)	--	--		0			0		--	--	SPACE (FUTURE EV)	--	10
11	--	SPACE (FUTURE EV)	--	--			0			0	--	--	SPACE (FUTURE EV)	--	12
13	--	SPACE (FUTURE EV)	--	--	0			0			--	--	SPACE	--	14
15	--	SPACE (FUTURE EV)	--	--		0			0		--	--	SPACE	--	16
17	--	SPACE	--	--			0			0	--	--	SPACE	--	18
19	--	SPACE	--	--	0			0			--	--	SPACE	--	20
21	--	SPACE	--	--		0			0		--	--	SPACE	--	22
23	--	SPACE	--	--			0			0	--	--	SPACE	--	24
25	--	SPACE	--	--	0			0			--	--	SPACE	--	26
27	--	SPACE	--	--		0			0		--	--	SPACE	--	28
29	--	SPACE	--	--			0			0	--	--	SPACE	--	30
				Total Load:	7,200 VA			3,600 VA		3,600 VA					
				Total Amps:	60 A			30 A		30 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
CONTINUOUS	14400 VA	125.00%	18000 VA		
				Total Conn. Load:	14,400 VA
				Total Est. Demand:	18,000 VA
				Total Conn. Current:	40 A
				Total Est. Demand Current:	50 A

Notes:

Panel: LVSE

Location: SEC ELEC 327
Supply From: UPS
Mounting: Surface
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 10K
Mains Type: MLO
Mains Rating: 100 A

Notes:

CKT	Circuit Breaker Notes	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	Circuit Breaker Notes	CKT
1		SEC ELEC 327 CABINET - VIDEO	20 A	1	1,000			360			1	20 A	RECEPT CENTRAL CONTROL 223		2
3		SEC ELEC 327 CABINET - VIDEO	20 A	1		1,000			800		1	20 A	RECEPT CENTRAL CONTROL 223		4
5		SEC ELEC 327 CABINET - VIDEO	20 A	1			1,000			800	1	20 A	RECEPT CENTRAL CONTROL 223		6
7		SEC ELEC 327 CABINET - ELEC. SEC.	20 A	1	1,000			800			1	20 A	RECEPT CENTRAL CONTROL 223		8
9		SEC ELEC 327 CABINET - ELEC. SEC.	20 A	1		1,000			800		1	20 A	RECEPT CENTRAL CONTROL 223		10
11		SEC ELEC 327 CABINET - INTERCOM	20 A	1			1,000			800	1	20 A	RECEPT CENTRAL CONTROL 223		12
13		SEC ELEC 327 CABINET - INTERCOM	20 A	1	1,000			800			1	20 A	RECEPT CENTRAL CONTROL 223		14
15		ACCESS CONTROL SYSTEM	20 A	1		1,000			360		1	20 A	RECEPT CENTRAL CONTROL 223		16
17		ACCESS CONTROL SYSTEM	20 A	1			1,000			360	1	20 A	RECEPT CENTRAL CONTROL 223		18
19		ACCESS CONTROL SYSTEM	20 A	1	1,000			800			1	20 A	RECEPT CENTRAL CONTROL 223		20
21		INTERCOM PEDESTAL - SOUTH	20 A	1		500			800		1	20 A	RECEPT CENTRAL CONTROL 223		22
23		INTERCOM PEDESTAL - EAST	20 A	1			500			800	1	20 A	RECEPT CENTRAL CONTROL 223		24
25		INTERCOM PEDESTAL - NW	20 A	1	500			0			1	20 A	SPARE	--	26
27	--	SPARE	20 A	1		0			0		1	20 A	SPARE	--	28
29	--	SPARE	20 A	1			0			0	1	20 A	SPARE	--	30
31	--	SPARE	20 A	1	0			0			--	--	SPACE	--	32
33	--	SPARE	20 A	1		0			0		--	--	SPACE	--	34
35	--	SPARE	20 A	1			0			0	--	--	SPACE	--	36
37	--	SPACE	--	--	0			0			3	30 A	SPD [1]	--	38
39	--	SPACE	--	--		0			0		--	--	--	--	40
41	--	SPACE	--	--			0			0	--	--	--	--	42
				Total Load:	7,260 VA			6,260 VA		6,260 VA					
				Total Amps:	61 A			52 A		52 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Other	11500 VA	100.00%	11500 VA		
RECEPT	8280 VA	100.00%	8280 VA	**Total Conn. Load:**	19,780 VA
				Total Est. Demand:	19,780 VA
				Total Conn. Current:	55 A
				Total Est. Demand Current:	55 A

Notes:
[1] PROVIDE STANDARD INTEGRATED SURGE PROTECTION DEVICE: 50KA/PHASE

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2025 Nineteenth Street
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www.lionakis.com

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AGENCY

CONSULTANT

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1209 Pleasant Grove Blvd.
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Job #: 18-2115

SEAL

REGISTERED PROFESSIONAL ENGINEER
CHRISTIAN PADURARIU
E 19533
EXP. 6-30-25
ELECTRICAL
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
PANEL SCHEDULES

SHEET
E-773
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STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.			
Project Name:	Mono County New Jail	**Report Page:**	**(Page 1 of 8)**
Project Address:	221 Twin Lakes Rd.	**Date Prepared:**	2/1/2023

A. GENERAL INFORMATION

01	Project Location (city)	Bridgeport	04 Total Conditioned Floor Area (ft^2)	2,778
02	Climate Zone	16	05 Total Unconditioned Floor Area (ft^2)	0
03	Occupancy Types Within Project (select all that apply):		06 # of Stories (Habitable Above Grade)	1

● Classroom ● Convention Center ● Office ● Support Areas ● All Other Occupancies

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft^2)	Calculation Method	Area (ft^2)
☒ New Lighting System	Area Category Method	2778	Area Category Method	0
☐ New Lighting System - Parking Garage				
Total Area of Work (ft^2)	2778		0	

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Mono County New Jail	**Report Page:**	**(Page 2 of 8)**
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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					≥	Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04			06	07		08	09
								Adjustments			
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	Total Designed (Watts)	PAF Lighting Controls Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned		1,537.4	0		=	1,537	≥ 1,525	0	=	1525	COMPLIES
Unconditioned					=		≥		=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Indoor Lighting
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CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	
									Pass	Fail
A1/A1E	2'x4' Recessed Architectural LED Troffer	No	NA	34.2	Mfr. Spec	11	No	376.2	☐	☐
A2/A2E	2'x4' Recessed Architectural LED Troffer	No	NA	48	Mfr. Spec	7	No	336	☐	☐
A3	2'x4' Recessed Architectural LED Troffer	No	NA	63.3	Mfr. Spec	2	No	126.6	☐	☐
B1E	2'x2' Recessed Architectural LED Troffer	No	NA	29.5	Mfr. Spec	1	No	29.5	☐	☐
C1/C1E	2'x4' Recessed Vandal LED Troffer	No	NA	48	Mfr. Spec	1	No	48	☐	☐
F2	4FT Wrap	No	NA	37.2	Mfr. Spec	3	No	111.6	☐	☐
F3	4FT LED Wrap	No	NA	22.8	Mfr. Spec	3	No	68.4	☐	☐
M1E	8FT Pendant LED Wrap	No	NA	65	Mfr. Spec	3	No	195	☐	☐
N1/N1E	2'x4' Recessed Static LED Troffer	No	NA	48	Mfr. Spec	2	No	96	☐	☐
R1	6" Downlight	No	NA	8.7	Mfr. Spec	3	No	26.1	☐	☐
T1/T1E	8' Indirect/Direct Pendant	No	NA	56	Mfr. Spec	2	No	112	☐	☐
Total Designed Watts: CONDITIONED SPACES								1,525		

[1]FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

[2]Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

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CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
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G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
Required >= 4,000W subject to multilevel	Whole Building Auto Time Switch	☐	☐

Area Level Controls

04	05	06	07	08	09	10	11	12	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector	
								Pass	Fail
					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft^2)	Area (ft^2)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
Project Name:	Mono County New Jail	**Report Page:**	**(Page 5 of 8)**
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I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Lobby	All Other Space Types	0.7	327	228.9	No	No
Restroom	Restroom	0.65	246	159.9	No	No
Corridor	Corridor	0.4	499	199.6	No	No
Conference / Meeting	Convention, Conference, Multipurpose and Meeting Center	0.75	241	180.8	No	No
Office	Office (<=250 square feet)	0.65	368	239.2	No	No
Storage	All Other Space Types	0.4	136	54.4	No	No
Work Room	All Other Space Types	0.6	84	50.4	No	No
Training	Classroom, Lecture, or Training Vocational	0.6	211	126.6	No	No
Locker	Locker/Dressing Room	0.45	288	129.6	No	No
Electrical / Telephone	Electrical Mechancial Telephone Room	0.4	266	106.4	No	No
Breakroom	Lounge	0.55	112	61.6	No	No
		TOTALS:	2,778	1,537.4	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
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N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

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U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Whole Building Time Switch;
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	Whole Building Demand Response;

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE			**NRCC-LTI-E**
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Project Address:	221 Twin Lakes Rd.	**Date Prepared:**	2/1/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Ciprian Paduraru	Documentation Author Signature: CPaduraru
Company: LP Consulting Engineers, Inc.	Signature Date: 2023-02-01
Address: 1209 Pleasant Grove Blvd.	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Roseville CA 95661	Phone: 916-771-0778

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Ciprian Paduraru	Responsible Designer Signature: CPaduraru
Company: LP Consulting Engineers	Date Signed: 2023-02-01
Address: 1209 Pleasant Grove Blvd.	License: E19533
City/State/Zip: Roseville CA 95678	Phone: 916-778-0778

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AGENCY

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REGISTERED PROFESSIONAL ENGINEER
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STATE OF CALIFORNIA

PROJECT
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221 TWIN LAKES RD
BRIDGEPORT, CA 95317

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MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
TITLE 24 ELECTRICAL COMPLIANCE FORMS

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E-811

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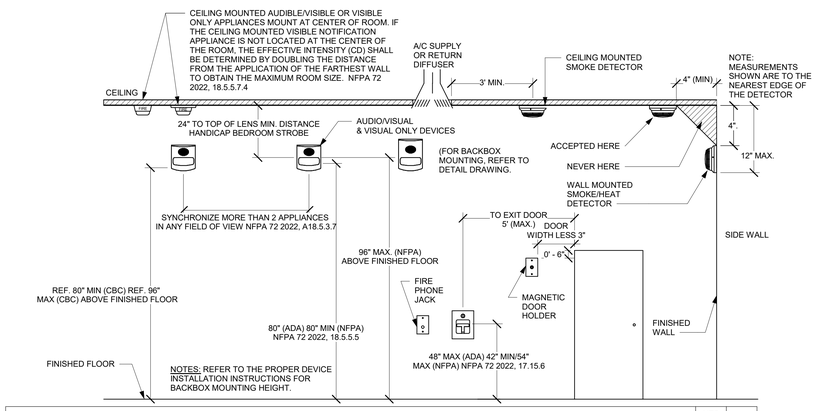
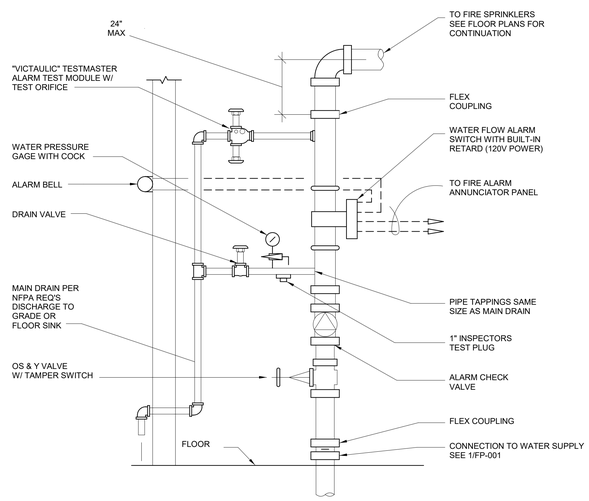


EQUIPMENT MOUNTING HEIGHTS | NTS | 1



WET PIPE FIRE SPRINKLER RISER | NTS | 2

FIRE ALARM SYSTEM OPERATIONAL MATRIX

CAUSE \ EFFECT	ALARM AT FACP	ALARM AT ANNUNCIATORS	ALARM AT CENTRAL CONTROL	ACTIVATE AUDIBLES	ACTIVATE VISUALS	TROUBLE AT FACP	TROUBLE AT ANNUNCIATORS	TROUBLE AT CENTRAL CONTROL	SUPERVISORY AT FACP	SUPERVISORY AT ANNUNCIATORS	SUPERVISORY AT CENTRAL CONTROL	FAN SHUT DOWN	DAMPER SHUT DOWN	RELEASE FIRE DOORS/ RELEASE WINDOWS	DEACTIVE AUDIBLES	DEACTIVE VISUALS	SYSTEM NORMAL	ACTUATE CO DETECTOR NOTIFICATION SIGNAL	REMARKS
	ALARM					TROUBLE			SUPERVISORY			MISC.							
SMOKE DETECTORS	•	•	•	•	•							•	•	•					
HEAT DETECTOR	•	•	•																
MANUAL FIRE ALARM BOX	•	•	•	•	•									•					
WATERFLOW SWITCH - BUILDING	•	•	•	•	•														
CO DETECTOR									•	•	•							•	
TAMPER SWITCH									•	•	•								
DAMPERS OPEN/CLOSE POSITION SWITCHES									•	•	•								
SYSTEM RESET															•	•	•		
AC POWER FAILURE						•	•	•						•					
OPERABLE WINDOWS						•	•	•						•					
AC POWER FAILURE									•	•	•								
SIGNAL BOOSTER FAILURE									•	•	•								
BATTERY CHARGER FAILURE									•	•	•								
LOW BATTERY CAPACITY									•	•	•								
POWER SUPPLY FAILURE									•	•	•								
ANTENNA MALFUNCTION									•	•	•								
SIGNAL BOOSTER TROUBLE									•	•	•								
FIRE ALARM WIRING:																			
SIGNALING LINE CIRCUIT (SLC) CLASS A																			
SINGLE OPEN						•	•	•											
SINGLE GROUND						•	•	•											
WIRE-TO-WIRE SHORT						•	•	•											
INITIATING DEVICE CIRCUIT (IDC) - CLASS A/STYLE Z:																			
SINGLE OPEN						•	•	•											
SINGLE GROUND						•	•	•											
WIRE-TO-WIRE SHORT						•	•	•											
NOTIFICATION APPLIANCE CIRCUIT (NAC) - CLASS B/ STYLE Y:																			
SINGLE OPEN						•	•	•											
SINGLE GROUND						•	•	•											
WIRE-TO-WIRE SHORT						•	•	•											

FIRE ALARM GENERAL NOTES

1. APPROVAL OF THE AUTOMATIC FIRE ALARM SYSTEM BY THE CALIFORNIA STATE FIRE MARSHAL IS DEFERRED. SHOP DRAWINGS FOR THIS SYSTEM MUST BE SUBMITTED TO THE CALIFORNIA STATE FIRE MARSHAL BY THE CONTRACTOR FOR APPROVAL PRIOR TO INSTALLATION.
2. THE FIRE ALARM SYSTEM SHALL CONFORM TO THE 2019 CBC/CFC 907.2.6.3, 907.6.3(5), 907.6.5(2), 2016 NFPA72 AND CEC ARTICLE 760.
3. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM COMPONENTS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE ENFORCING AGENCIES AND THE INSPECTOR OF RECORD. PROVIDE NFPA COMPLETION DOCUMENTATION.
4. ALL SIGNALING DEVICES SHALL HAVE THE SAME BASIC SOUND THROUGHOUT THE ENTIRE SITE.
5. THIS IS A AUTOMATIC SYSTEM WITH AUTOMATIC INITIATION DEVICES INSTALLED (TO INCLUDE SMOKE & HEAT DETECTORS, DETECTORS FOR FIRE SMOKE DAMPER ACTIVATION, DUCT SMOKE DETECTORS FOR HVAC UNIT SHUTDOWN, SMOKE & HEAT DETECTORS).
6. FIRE ALARM SYSTEM INSTALLER SHALL PROVIDE ADDRESSES FOR ALL ADDRESSABLE DEVICES AND SCALED PLANS LOCATING ALL DEVICES AT BUILDING.
7. POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A "RED" MARKING, IDENTIFIED AS " FIRE ALARM CIRCUIT CONTROL ", AND ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL. THE LOCATION OF THE BRANCH CIRCUIT SHALL BE PERMANENTLY IDENTIFIED AT EACH FIRE ALARM CONTROL PANEL .
8. THE FIRE ALARM DEVICES, COMPONENTS AND EQUIPMENT SHOWN AND SPECIFIED THROUGHOUT THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS IS BASED ON EQUIPMENT SUPPLIED BY NOTIFIER WITH NO SUBSTITUTIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY LOCATING ALL FIRE ALARM DEVICES. AUTOMATIC FIRE DETECTORS SHALL BE LAID OUT AND MEET THE REQUIREMENTS OF NFPA 72.
10. NO WORK ON THE FIRE ALARMS SYSTEM SHALL BEGIN WITHOUT APPROVED PLANS AND SIGNED PERMITS.
11. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE CALIFORNIA ELECTRICAL CODE, NFPA 70: 2016 EDITION WITH CALIFORNIA AMENDMENTS, STATE CODE(S), AND STATE FIRE MARSHAL REQUIREMENTS.
12. WIRING SHALL BE PER PLAN WITH RESPECT TO CONDUCTOR SIZE, TYPE, QUANTITY AND COLOR CODE. CONDUCTORS SHALL BE PERMANENTLY MARKED FOR FUTURE IDENTIFICATION.
13. CONDUIT KNOCKOUTS ARE PROVIDED ON ALL MANUFACTURERS PROVIDED BACK BOXES. DO NOT ENLARGE OR CHANGE LOCATION OF CONDUIT ENTRY WITHOUT PRIOR APPROVAL OF MANUFACTURER.
14. CONDUIT RUNS SHOWN DIAGRAMMATICALLY. EXACT LOCATION IS TO BE DETERMINED IN THE FIELD.
15. CONDUCTOR TERMINATIONS SHALL BE BRADY OR EQUALLY LABELED.
16. ALL FIRE ALARM CIRCUITS ARE CONTINUOUS FROM DEVICE TO DEVICE. NO SPLICES OR INTERM CIRCUIT CONNECTIONS SHALL BE MADE UNLESS IN AND APPROVED JUNCTION BOX ON APPROVED TERMINAL BLOCKS.
17. DETECTOR AND AUDIBLE/VISUAL CIRCUIT POLARITY SHALL BE OBSERVED.
18. AUDIBLE/VISUAL CIRCUIT WIRING IS SUPERVISED. NO PARALLEL BRANCHING IS PERMISSIBLE.
19. STANDARD CONTROL PANEL, TERMINAL BOXES ETC. MOUNTING IS 6'-0" FROM FINISHED FLOOR TO TOP OF DEVICE UNLESS OTHERWISE NOTED.
20. WHERE DETECTORS ARE INSTALLED FOR SIGNAL INITIATION DURING CONSTRUCTION, THEY SHALL BE CLEANED AND VERIFIED TO BE OPERATING IN ACCORDANCE WITH THE LISTED SENSITIVITY, OR THEY SHALL BE REPLACED PRIOR TO THE FINAL COMMISSIONING OF THE SYSTEM PER NFPA 72-17.7.1.11.1, AT AND ADDITIONAL COST TO THE OWNER.
21. WHERE DETECTORS ARE INSTALLED BUT NOT OPERATIONAL DURING CONSTRUCTION, THEY SHALL BE PROTECTED FROM CONSTRUCTION DEBRIS, DUST, DIRT, AND DAMAGE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND VERIFIED TO BE OPERATING IN ACCORDANCE WITH THE LISTED SENSITIVITY, OR THEY SHALL BE REPLACED PRIOR TO THE FINAL COMMISSIONING OF THE SYSTEM PER NFPA 72-17.7.1.11.2, AT NO ADDITIONAL COST TO THE OWNER.
22. WHERE DETECTION IS NOT REQUIRED DURING CONSTRUCTION, DETECTORS SHALL NOT BE INSTALLED UNTIL ALL OTHER CONSTRUCTION TRADES HAVE COMPLETED CLEANUP PER NFPA 72-17.7.1.11.3.
23. DETECTORS ARE NOT TO BE LOCATED WITHIN 3'-0" OF ANY AIR SUPPLY DIFFUSER, IN ACCORDANCE WITH NFPA 72-A.17.7.4.1, AND SHALL NOT BE PLACED WHERE RETURN AIR MOVEMENT SHALL EXCEED THE MANUFACTURERS RECOMMENDATION AS TO AFFECT THE OPERATION OF THE SMOKE DETECTOR.
24. PENETRATIONS OF RATED ASSEMBLIES REQUIRING OPENING PROTECTION SHALL USE AN APPROVED THROUGH PENETRATION FIRE STOP SYSTEM TO MAINTAIN THE FIRE RESISTANCE RATING OF THE ASSEMBLY PENETRATED CBC 714.
25. CONNECT FIRE ALARM PANELS TO AN EMERGENCY CIRCUITS.
26. ALL MANUAL FIRE ALARM BOXES SHALL BE INSTALLED SUCH THAT THE OPERABLE PART OF EACH FIRE ALARM BOX SHALL BE NOT LESS THAN 42 IN. (1.1 m) AND NOT MORE THAN 48 IN. (1.37 m) ABOVE FLOOR LEVEL. NFPA 72-17.14.5.
27. ALL AUDIBLE/VISUAL DEVICES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN 96" A.F.F. AS TO CONFORM TO NFPA 72-18.5.5.1 (SEE NFPA 72-18.4.8.1 FOR AUDIBLES ONLY).
28. ALL 24 VDC WIRE TO BE INSTALLED IN DEDICATED CONDUIT SEPARATE FROM 120 VAC WIRING.
29. REVIEW SEQUENCE OF SYSTEM OPERATION ON FIRE ALARM OPERATION.
30. INSTALLING CONTRACTOR SHALL RETURN ONE SET OF ACCURATELY MARKED DRAWINGS FOR "AS BUILT" PURPOSES.
31. THE SECONDARY POWER SUPPLY SHALL CONSIST OF STORAGE BATTERIES THAT SHALL HAVE SUFFICIENT CAPACITY TO OPERATE THE SYSTEM UNDER QUIESCENT LOAD (NON-ALARM CONDITION) FOR A MINIMUM OF 24 HOURS AND AT THE END OF THAT PERIOD SHALL BE CAPABLE OF OPERATING ALL ALARM NOTIFICATION APPLIANCES FOR 5 MINUTES PER NFPA 72-10.6.7.2.1.
32. THESE FIRE ALARM DRAWINGS, EF-200 THRU EF-213, INCLUSIVE ARE INTENDED TO ASSIST THE CONTRACTOR IN DEVELOPING FIRE ALARM DESIGN AND SHOP DRAWINGS FOR SUBMITTAL TO THE CALIFORNIA STATE FIRE MARSHAL. THESE FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE AND MAY NOT CONTAIN ALL DEVICES, COMPONENTS, WIRING, ETC. REQUIRED FOR A COMPLETE FIRE ALARM SYSTEM. THE CONTRACTOR SHALL COORDINATE THE FIRE ALARM SYSTEM DESIGN WITH ALL OTHER TRADES TO DEVELOPED A COMPLETE FIRE ALARM SYSTEM DESIGN INCLUDING DEVICES, COMPONENTS, WIRING, ETC. FOR SUBMITTAL TO THE CALIFORNIA STATE FIRE MARSHAL. OBTAIN CSFM APPROVAL PRIOR TO PROCEEDING WITH EQUIPMENT PROCUREMENT AND INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INTERCONNECTIVITY WITH OTHER SYSTEMS SUCH AS RADIO, ELEVATOR CONTROLS, ETC. AND INCLUDE THE REQUIRED INTERCONNECTIVITY INTO THE FIRE ALARM SYSTEM DESIGN.
33. SEE C/VIL DRAWINGS, DETAIL 1/C-440 FOR FIRE DEPARTMENT CHECK VALVE AND POST INDICATOR VALVE REQUIREMENTS. CONNECT TO FIRE ALARM SYSTEM FOR MONITORING.
34. HVAC UNIT SHUT DOWN IS TO BE PROVIDED BY THE FIRE ALARM SYSTEM VIA TOTAL COVERAGE PROTECTION PROVIDED BY TOTAL AREA SMOKE DETECTION.
35. PROVIDE DEDICATED BDA ANNUNCIATOR PANEL INDEPENDENT FROM FIRE ALARM SYSTEM PER NFPA-72 AND 1221. LOCATE ANNUNCIATOR PANEL AS DIRECTED BY AHJ.

FIRE ALARM SYMBOL LEGEND AND EQUIPMENT SCHEDULE

SYM	DESCRIPTION
FAWS	FIRE ALARM WORKSTATION FIRE ALARM CPU, GRAPHIC DISPLAY MONITOR AND PRINTER
FACP	FIRE ALARM CONTROL PANEL, "FACP" . ADDRESSABLE SYSTEM. PROVIDE WITH ONE (1) SLC-2 MODULE FOR ADDITIONAL DEVICES. PROVIDE WITH TWO (2) 12 VDC 18.0 Ah BATTERIES. PROVIDE ALL COMPONENTS IN SURFACE WALL MOUNTED ENCLOSURE.
FAPS	FIRE ALARM REMOTE POWER SUPPLY
FAA	FIRE ALARM REMOTE ANNUNCIATOR. 160 CHARACTER LED DISPLAY FOR POINT STATUS. SURFACE OR RECESSED MOUNT PER PLAN +60" AFF.
?	PHOTOELECTRIC SMOKE DETECTOR, ADDRESSABLE. CEILING MOUNTED WITH BASE INCLUDED.
?	PHOTOELECTRIC SMOKE DETECTOR, ADDRESSABLE. CEILING MOUNTED WITH GUARD AND BASE INCLUDED. STI#9601 WIRE GUARD
↓	HEAT DETECTOR,. FIXED TEMPERATURE 135° WITH RATE-OF-RISE. CEILING SURFACE MOUNTED. PROVIDE WITH RELAY BASE.
F *	MANUAL FIRE ALARM BOX, DUAL-ACTION. PROVIDE WITH MONITOR MODULE "AIM" FOR ADDRESS. NOTIFIER * K INDICATES KEY OPERATED INSTITUTIONAL DEVICE.
WF	WATER FLOW SWITCH, N.I.E.S. PROVIDE WITH "AIM" MODULE. CONNECT AS REQUIRED. FIELD VERIFY DEVICE TYPE AND CONNECTION REQUIREMENTS
TS	VALVE TAMPER SWITCH, N.I.E.S. PROVIDE WITH "AIM" MODULE. CONNECT AS REQUIRED. FIELD VERIFY DEVICE TYPE AND CONNECTION REQUIREMENTS
PIV	POST INDICATOR SWITCH, N.I.E.S. PROVIDE WITH "AIM". CONNECT AS REQUIRED
AIM	ADDRESSABLE MONITOR MODULE. FLUSH WALL MOUNT OR AT SURFACE ABOVE ACCESSIBLE CEILING ADJACENT TO CONNECTIONS.
ARM	FIRE ALARM RELAY MODULE. FLUSH WALL MOUNT OR AT SURFACE ABOVE ACCESSIBLE CEILING ADJACENT TO CONNECTIONS.
? RM	DUCT SMOKE DETECTOR. WITH RELAY. COORDINATE EXACT LOCATION OF DEVICE & LENGTH OF SAMPLING TUBE REQUIRED WITH EXISTING MECHANICAL UNIT. DETECTOR RELAY SHALL ACTIVATE FIRE DAMPER. PROVIDE RELAY AND SAMPLING TUBE WITH SMOKE DETECTOR.
FSD	FIRE SMOKE DAMPER WITH DUCT SMOKE____, N.I.E.S. PROVIDE 120V POWER. CONNECT DUCT SMOKE DETECTOR (BY E.C.) FOR ACTIVATION CIRCUIT PER PLANS. CONNECT DAMPER ACTUATION CIRCUIT FROM "AIM" DEVICE TO DAMPER CONTROL RELAY. COORDINATE EXACT LOCATIONS AND ALL REQUIREMENTS WITH EXISTING CONDITIONS. CONFIRM EXACT NUMBER ON ALL PLANS. CONNECT OPEN AND CLOSED END LIMIT SWITCHES TO FACP FOR POSITION MONITORING.
H	FIRE ALARM HORN. WALL MOUNTED.
FIRE ALARM SYSTEM SW34	AUDIO/VISUAL HORN/STROBE FIRE ALARM. WALL MOUNTED. CANDELLA PER PLAN.
FIRE ALARM SYSTEM S	VISUAL STROBE FIRE ALARM. WALL MOUNTED. CANDELLA PER PLAN.
FIRE ALARM SYSTEM	VISUAL STROBE FIRE ALARM. CEILING MOUNTED. CANDELLA PER PLAN.
	FIRE ALARM CABLE____. PROVIDE IN 3/4"C., UNO. SEE FIRE ALARM CABLE SCHEDULE____.
EOLR	END OF LINE RESISTOR

NOTES:
1. FIRE ALARM SYSTEM EQUIPMENT AND DEVICES SHOWN ARE BASED ON EQUIPMENT MANUFACTURED BY SILENT KNIGHT.
2. FOR MOUNTING HEIGHTS OF MANUAL PULL STATIONS, HORNS, HORN/STROBES AND STROBES SEE DETAIL 1/E-002.
3. PROVIDE VANDAL PROOF SECURITY COVERS FOR ALL SMOKE DETECTORS INSTALLED IN INMATE AREAS NOTED BY "WG" ADJACENT TO SMOKE DETECTOR SYMBOL.

FIRE ALARM SHEET INDEX

SHEET NUMBER	SHEET NAME
EF001	FIRE ALARM SHEET INDEX, ABBREVIATIONS, AND NOTES
EFS111	FIRE ALARM SITE PLAN
EF111	FIRE ALARM PLAN - LEVEL 1 OVERALL
EF111A	FIRE ALARM PLAN - LEVEL 1 - AREA A,B & D
EF111B	FIRE ALARM PLAN - LEVEL 1 - AREA C
EF211	FIRE ALARM FIRE RISER
EF212	FIRE ALARM DETAILS

FIRE ALARM CABLE SCHEDULE

TYPE	DESCRIPTION	USE	MANUFACTURER CATALOG NO.	CSFM #
A	1 TWISTED 16/2 SOLID BARE COPPER CONDUCTORS, UNSHIELDED WITH AN OVERALL JACKET	FIRE ALARM INITIATING CIRCUIT (SLC LOOP)	WEST PENN # D990	7161-0859:0101
B	1 TWISTED 12/2 SOLID BARE COPPER CONDUCTORS, UNSHIELDED WITH AN OVERALL JACKET	FIRE ALARM NOTIFICATION CIRCUIT, INTERIOR	WEST PENN # 60995B	7161-0859:0101
C	1 TWISTED SHIELDED 18/2 SOLID BARE COPPER CONDUCTORS WITH AN OVERALL JACKET	FIRE ALARM REMOTE ANNUNCIATOR DATA, INTERIOR	WEST PENN # D975	7161-0859:0101
D	1 TWISTED UNSHIELDED 14/2 SOLID BARE COPPER CONDUCTORS WITH AN OVERALL JACKET	FIRE ALARM REMOTE ANNUNCIATOR POWER	WEST PENN # D994	7161-0859:0101
E	1 TWISTED UNSHIELDED 18/4 SOLID BARE COPPER CONDUCTORS WITH AN OVERALL JACKET	FIRE ALARM REMOTE TEST SWITCH	WEST PENN # D982	7161-0859:0101
F	2 FIBER MULTI-MODE FIBER OPTIC CABLE 62.5/125 MICRON WITH ST TYPE CONNECTOR	FIRE ALARM NETWORK	WEST PENN #M9B150	7161-0859:0101

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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE
FIRE ALARM SHEET INDEX, ABBREVIATIONS, AND NOTES

SHEET
EF001

V1

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KEY NOTES

28-100 (N) FIRE ALARM CONTROL PANEL
28-101 (N) FIRE ALARM POWER SUPPLY
28-102 (N) FIRE ALARM ANNUNCIATOR
28-103 (N) FIRE ALARM WORKSTATION

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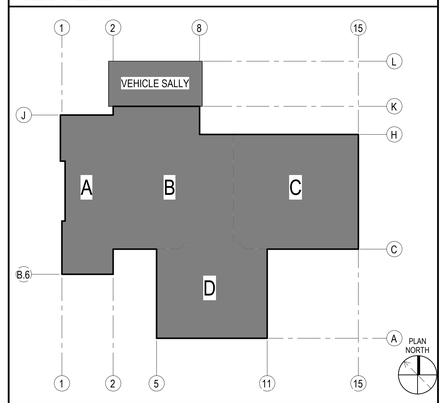
KEY PLAN



PLAN NORTH

1 FIRE ALARM SITE PLAN

SCALE: 1" = 20'-0"

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FIRE ALARM SITE PLAN

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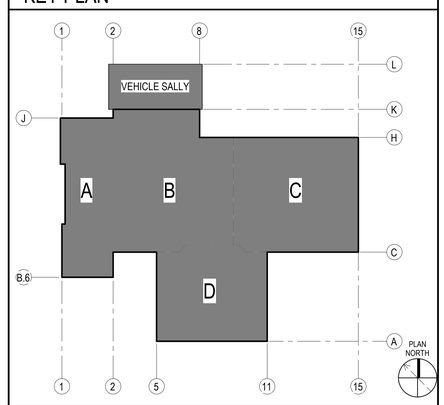

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FIRE ALARM PLAN - LEVEL 1 OVERALL

SHEET

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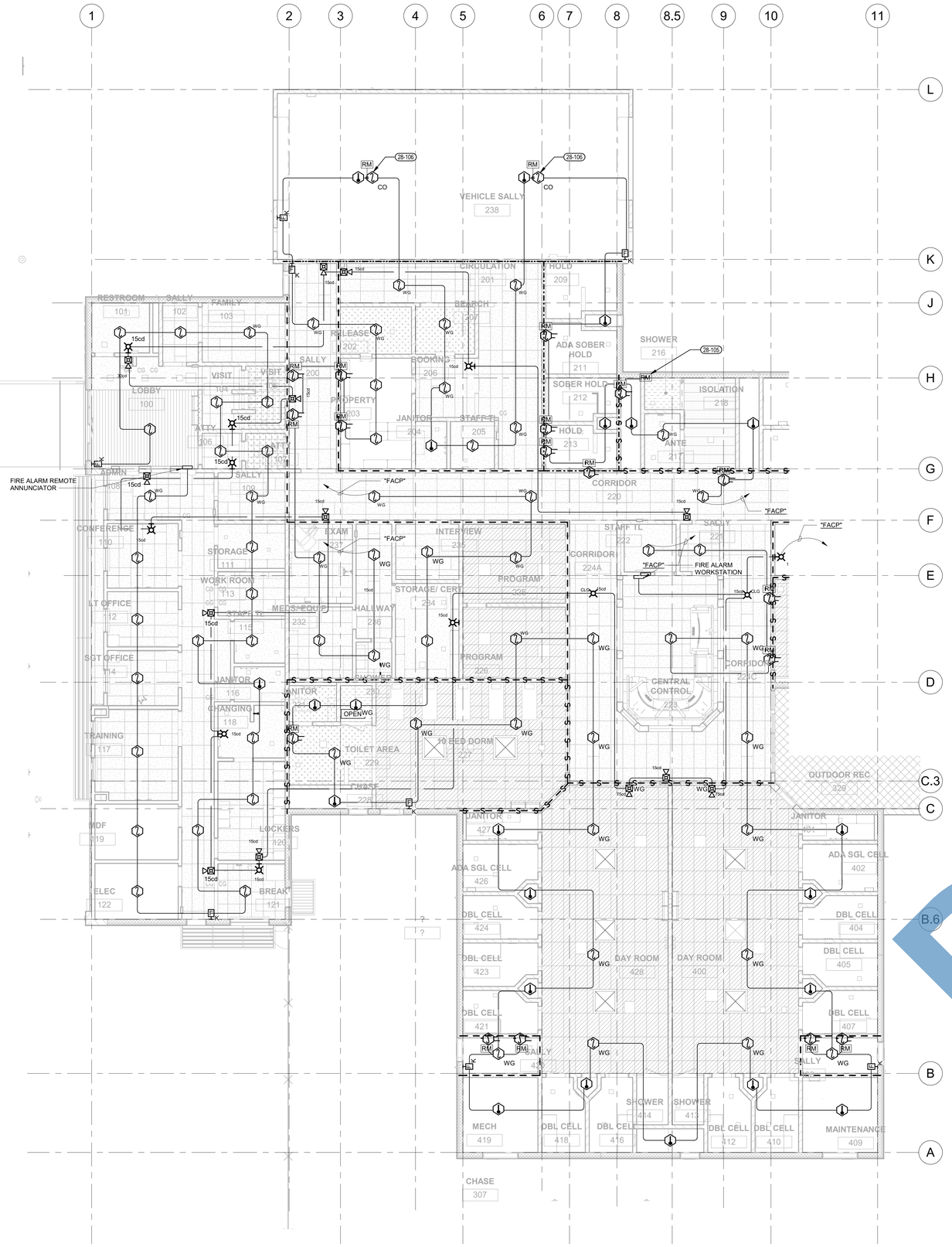

1 **FIRE ALARM PLAN - LEVEL 1 - AREA A, B & D**

SCALE: 1/8" = 1'-0"

PLAN NORTH

KEY NOTES

28-1 05 RELAY CONTROL MODULE CONTROLS OPERABLE WINDOWS.

28-1 06 CARBON MONOXIDE DETECTORS SHALL BE POWERED BY A DEDICATED 120V ELECTRICAL CIRCUIT. REFERENCE ELECTRICAL SHEETS FOR DEDICATED CIRCUIT.

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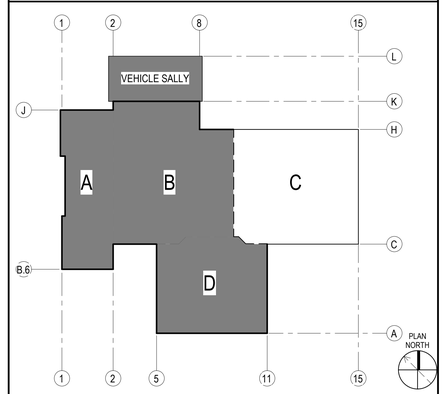
WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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SEPTEMBER 11, 2023

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TITLE
FIRE ALARM PLAN - LEVEL 1 - AREA A,B & D

SHEET
EF111A

V1

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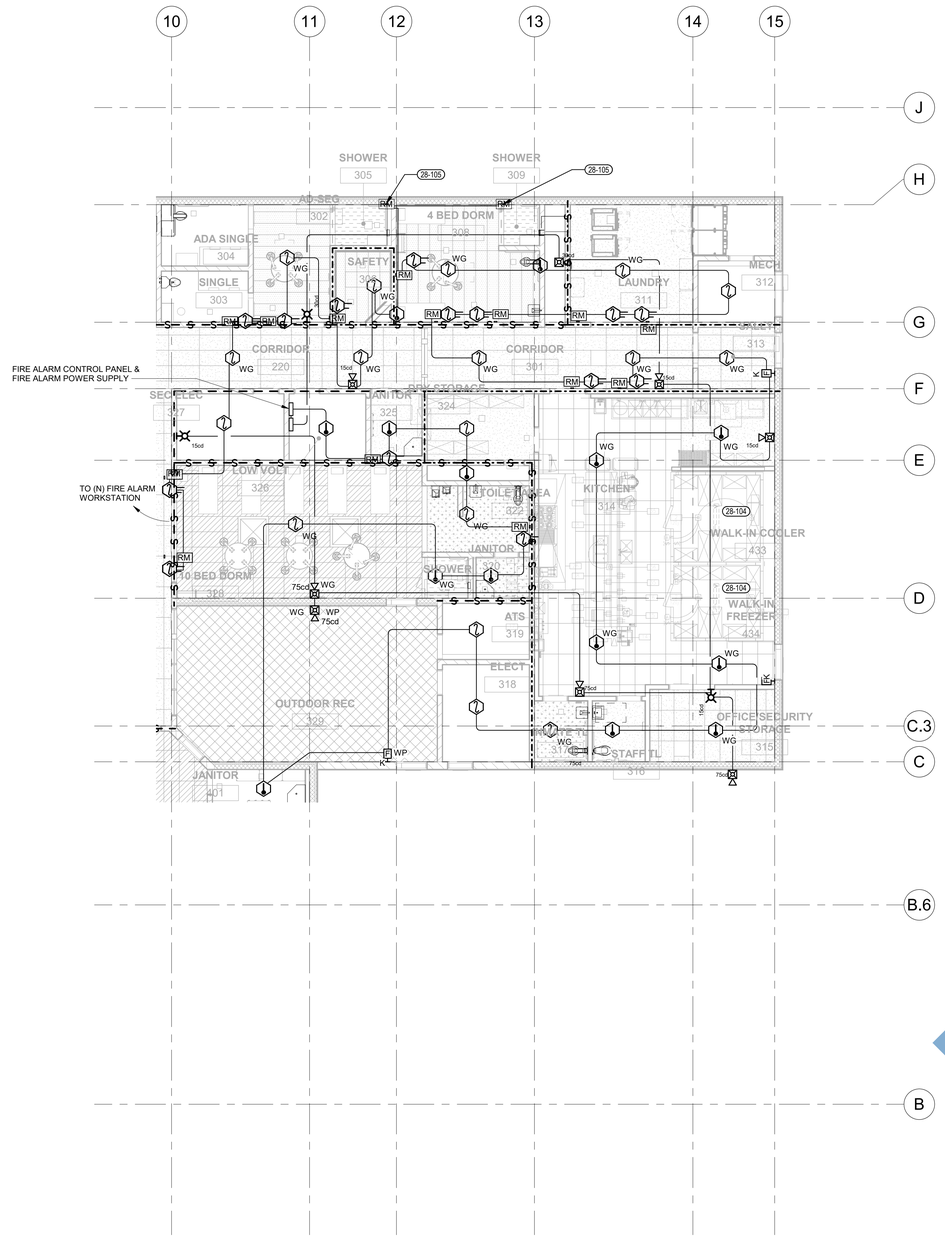


1 **FIRE ALARM PLAN - LEVEL 1 - AREA C**

SCALE: 1/8" = 1'-0"

PLAN NORTH

KEY NOTES

28-104 INITIATION DEVICES ARE NOT REQUIRED ABOVE COOLER AND FREEZER. CONCEALED SPACE ABOVE SHALL BE FULLY SPRINKLED.

28-105 RELAY CONTROL MODULE CONTROLS OPERABLE WINDOWS.

DEFERRED SUBMITTAL NOTES

AUTOMATIC FIRE SPRINKLER SYSTEM AND FIRE ALARM SYSTEM ARE DEFERRED-APPROVAL ITEMS. SHEETS IN THIS SET SHOWN FOR FIRE ALARM ARE NOT FOR INSTALLATION AND ARE FOR REFERENCE ONLY. THESE SHEETS ARE NOT APPROVED FOR THE INSTALLATION OF ANY FIRE ALARM SYSTEM. A SEPARATE SUBMITTAL TO THE CSFM IS REQUIRED BY THE INSTALLING C-10 LICENSED FIRE ALARM CONTRACTOR PRIOR TO ANY INSTALLATION OR MODIFICATION OF ANY FIRE ALARM SYSTEM.

DEFERRED SUBMITTALS FOR THE PERMIT SHALL BE SUBMITTED BY GENERAL CONTRACTOR FOR FIRE SPRINKLER AND FIRE ALARM SYSTEMS INCLUDING ANY MECHANICAL, ELECTRICAL, AND PLUMBING MODIFICATIONS TO ACCOMMODATE THE FIRE SPRINKLER AND FIRE ALARM SYSTEMS.

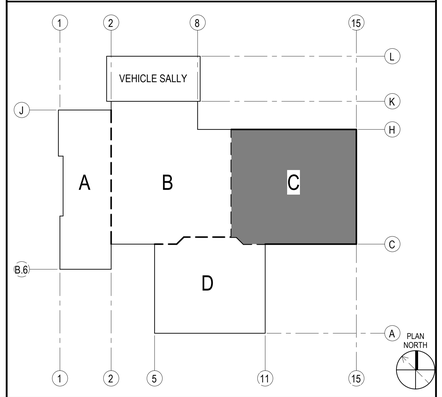
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING LICENSED PROFESSIONALS AS REQUIRED TO DESIGN AND CONSTRUCT THE SYSTEMS INCLUDING PROVIDING SERVICES FOR THE PREPARATION OF DRAWINGS NECESSARY TO OBTAIN A REVIEW AND PERMIT APPROVAL FROM THE OFFICE OF THE STATE FIRE MARSHAL HAVING JURISDICTION OVER THE PROJECT. DEFERRED SUBMITTAL ITEMS SHALL NOT BE PROCURED OR INSTALLED UNTIL THE DESIGNATED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL.

DOCUMENTS HAVE BEEN APPROVED BY THE OFFICE OF THE STATE FIRE MARSHAL. PROFESSIONAL FIRE PROTECTION ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED ON THESE DRAWINGS AND THE CONTENTS OF SECTION 21 10 00 & SECTION 28 31 00 (INCLUDING RELATED AND/OR REFERENCED REQUIREMENTS IDENTIFIED THEREIN). SUBMITTAL SHALL INCLUDE COMPLETE CALCULATIONS FOR HYDRAULIC, BATTERY, VOLTAGE DROP, ETC., AND CUTSHEETS FOR MATERIALS AND PRODUCTS USED IN THE SYSTEM(S).

WALL TYPES LEGEND

- 12" CMU WALL, FULLY GROUTED, (INSULATED)
- 8" AND 12" CMU WALL, FULLY GROUTED (NON INSULATED)
- METAL STUD FRAMED WALL, SEE PARTITION TYPE PLANS, A-XXX
- 1 HR FIRE BARRIER WALL, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- 1 HR FIRE PARTITION, SEE LIFE SAFETY AND PARTITION TYPE PLANS
- S— — —S SMOKE BARRIER (OVER FIRE PARTITION OR FIRE BARRIER), SEE LIFE SAFETY AND PARTITION TYPE PLANS
- WALL GUARD, SEE DETAIL

KEY PLAN



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FIRE ALARM PLAN - LEVEL 1 - AREA C

SHEET

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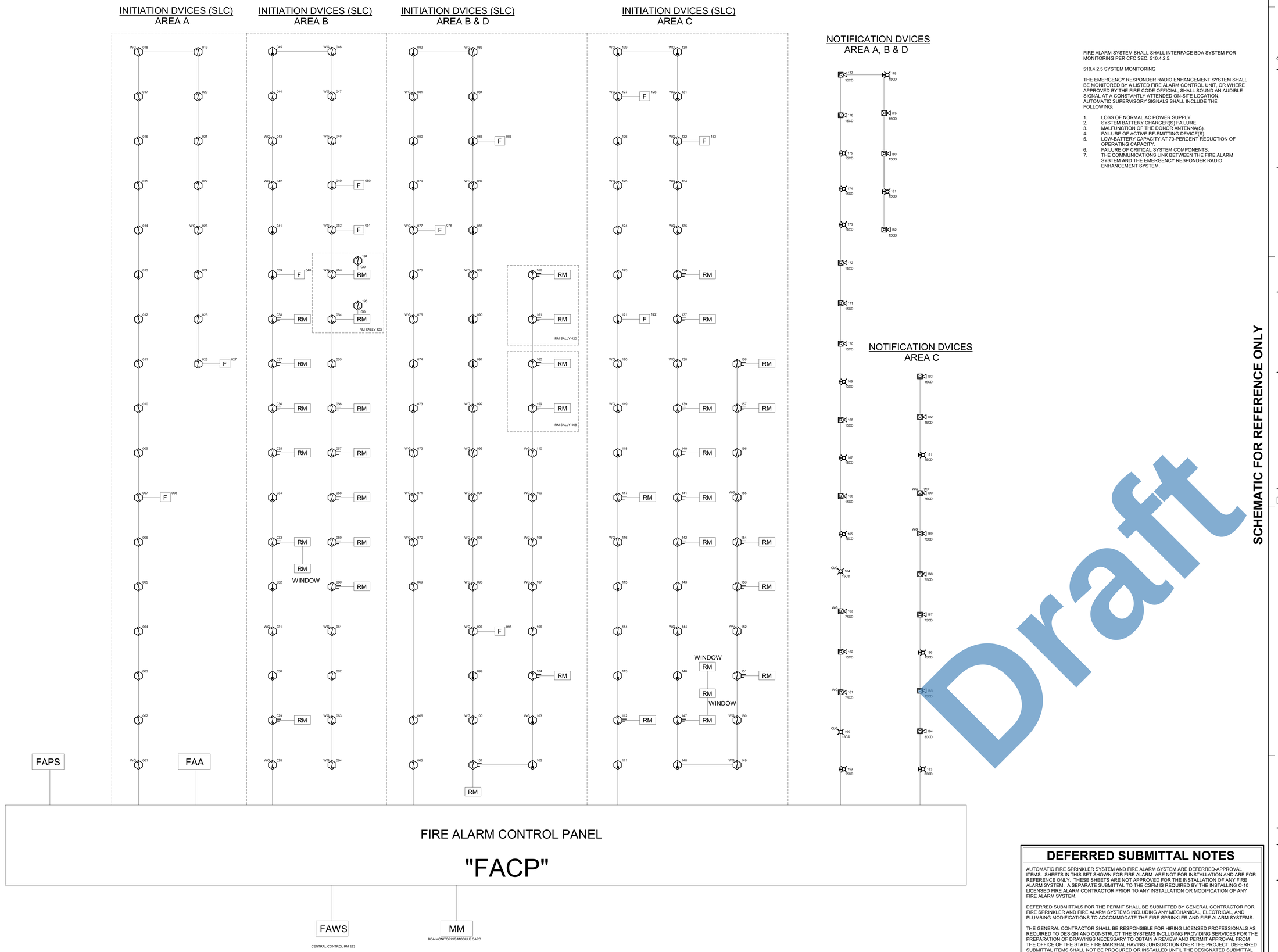

FIRE ALARM SYSTEM SHALL SHALL INTERFACE BDA SYSTEM FOR MONITORING PER CFC SEC. 510.4.2.5.

510.4.2.5 SYSTEM MONITORING

THE EMERGENCY RESPONDER RADIO ENHANCEMENT SYSTEM SHALL BE MONITORED BY A LISTED FIRE ALARM CONTROL UNIT, OR WHERE APPROVED BY THE FIRE CODE OFFICIAL, SHALL SOUND AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED ON-SITE LOCATION. AUTOMATIC SUPERVISORY SIGNALS SHALL INCLUDE THE FOLLOWING:

1. LOSS OF NORMAL AC POWER SUPPLY.
2. SYSTEM BATTERY CHARGER(S) FAILURE.
3. MALFUNCTION OF THE DONOR ANTENNA(S).
4. FAILURE OF ACTIVE RF-EMITTING DEVICE(S).
5. LOW-BATTERY CAPACITY AT 70-PERCENT REDUCTION OF OPERATING CAPACITY.
6. FAILURE OF CRITICAL SYSTEM COMPONENTS.
7. THE COMMUNICATIONS LINK BETWEEN THE FIRE ALARM SYSTEM AND THE EMERGENCY RESPONDER RADIO ENHANCEMENT SYSTEM.

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FIRE ALARM FIRE RISER

SHEET
EF211

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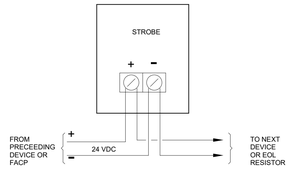
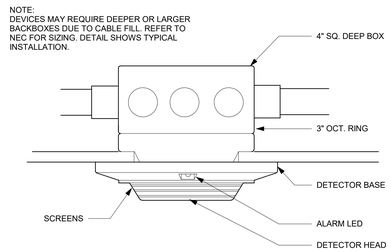


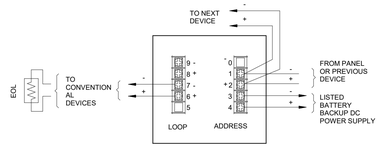
6 FIRE ALARM STROBE POINT TO POINT DIAGRAM

SCALE: 1/4" = 1'-0"



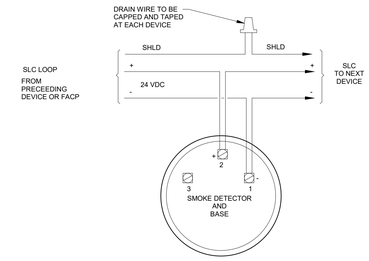
7 FIRE ALARM DETECTOR MOUNTING DETAIL (BELOW CEILING)

SCALE: 12" = 1'-0"



8 ADDRESSABLE MODULE WIRING DIAGRAM

SCALE: 1/4" = 1'-0"



1 FIRE ALARM HEAT DETECTOR POINT TO POINT DIAGRAM

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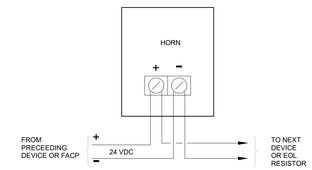
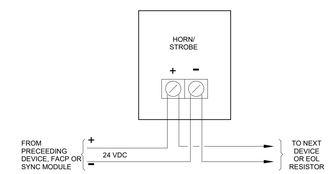


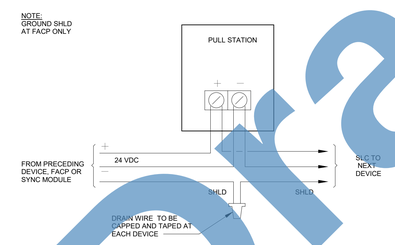
2 FIRE ALARM HORN POINT TO POINT DIAGRAM

SCALE: 1/4" = 1'-0"



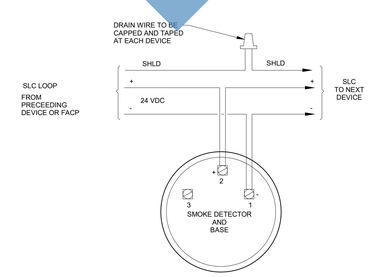
3 FIRE ALARM HORN STROBE POINT TO POINT DIAGRAM

SCALE: 1/4" = 1'-0"



4 FIRE ALARM MANUAL PULL STATION POINT TO POINT DIAGRAM

SCALE: 1/4" = 1'-0"



5 SMOKE DETECTOR POINT TO POINT DIAGRAM

SCALE: 1/4" = 1'-0"

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TITLE
FIRE ALARM DETAILS

SHEET
EF212
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1 ANTENNA PLAN - LEVEL 1 - OVERALL

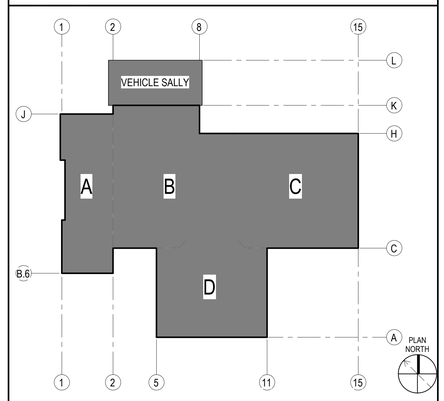
SCALE: 1/8" = 1'-0"

ANTENNA SCHEDULE	
ANTENNA	LOCATION
A	EAST DAYROOM
B	WEST DAYROOM
C	WEST 10 BED DORM
D	LOCKERS
E	WORK ROOM
F	CENTRAL CONTROL
G	EAST 10 BED DORM
H	KITCHEN
I	WALK-IN COOLER
J	CORRIDOR S/O LAUNDRY
K	CORRIDOR NE/O CENTRAL CONTROL
L	PROCESSING
M	VEHICLE SALLY
N	STORAGE/CERT
O	LOBBY

DISTRIBUTED ANTENNA SHEET INDEX

SHEET NUMBER	SHEET NAME
EY121	DISTRIBUTED ANTENNA LAYOUT PLAN - OVERALL
EY121A	DISTRIBUTED ANTENNA LAYOUT PLAN - AREA 'A'
EY121B	DISTRIBUTED ANTENNA LAYOUT PLAN - AREA 'B'
EY121C	DISTRIBUTED ANTENNA LAYOUT PLAN - AREA 'C'
EY121D	DISTRIBUTED ANTENNA LAYOUT PLAN - AREA 'D'
EY611	DAS SCHEMATIC DIAGRAM, CALCS & SCHEDULES
EY612	DAS CONNECTION DETAILS
R.EY111	RADIO SHELTER FLOOR PLAN
T.EY111	TOWER AND EXTERIOR GROUNDING PLAN
T.EY112	GROUNDING DETAIL

KEY PLAN



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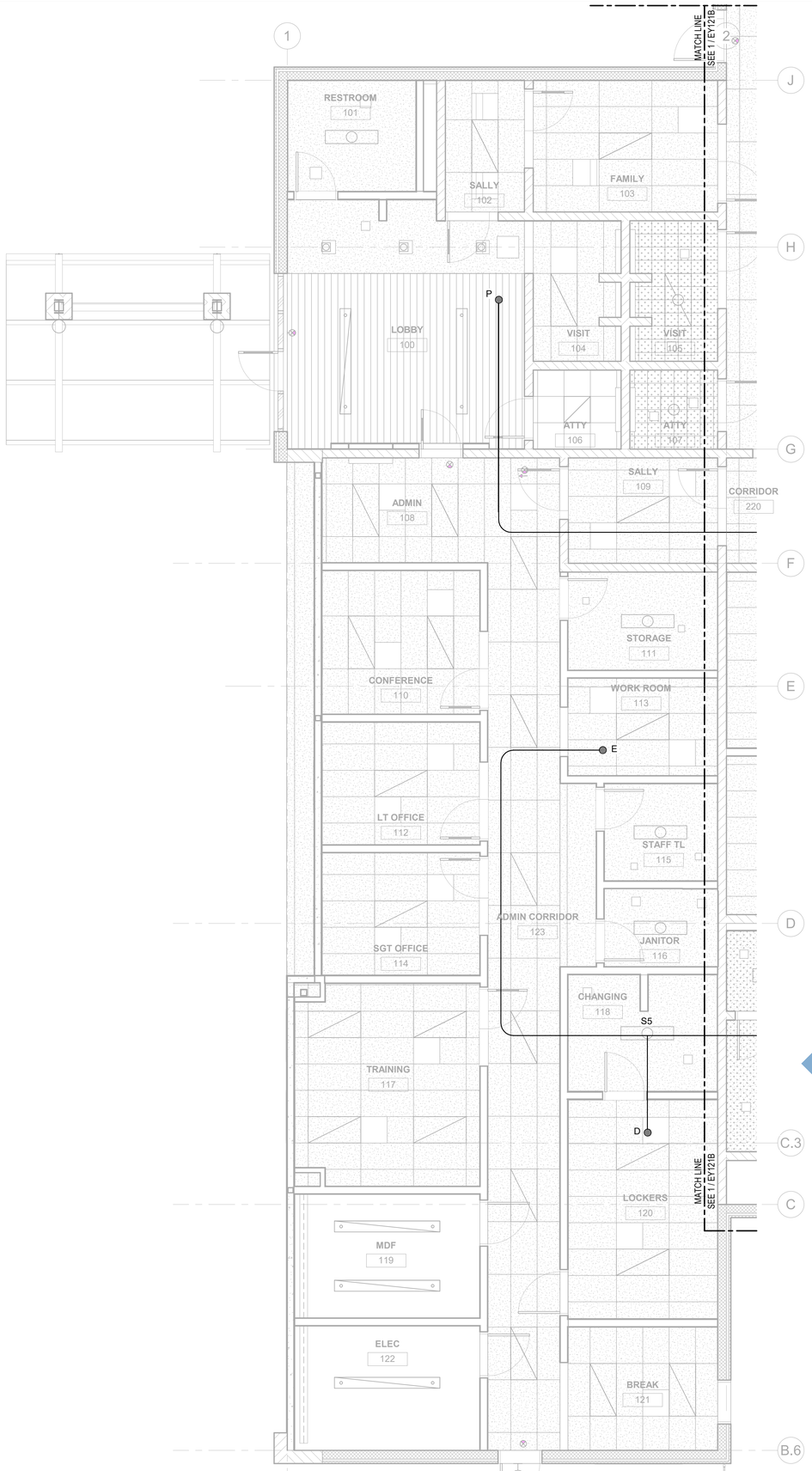


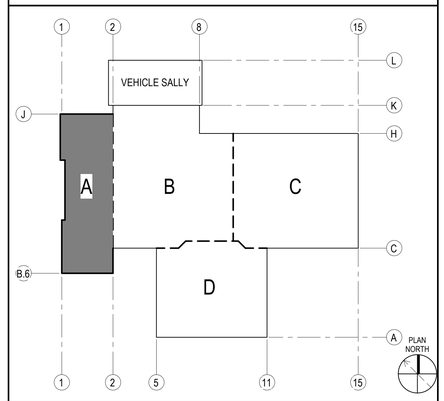
1 DISTRIBUTED ANTENNA LAYOUT PLAN - LEVEL 1 - ENLARGED - AREA 'A'

SCALE: 1/4" = 1'-0"

PLAN NORTH

Draft

KEY PLAN



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SHEET

EY121A

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SCALE: 1/4" = 1'-0"

PLAN NORTH

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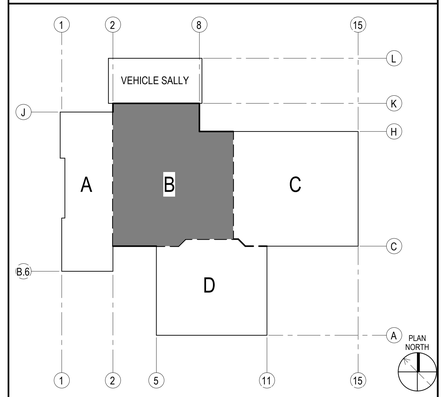

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EY121B

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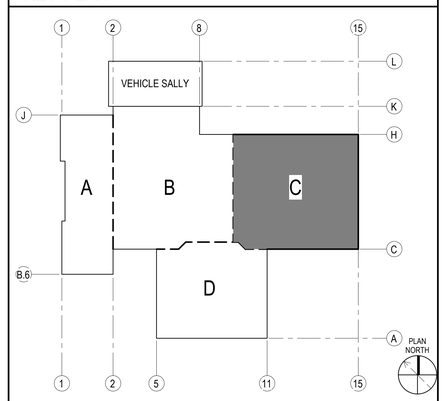
PLAN NORTH

Draft

KEY PLAN



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SEPTEMBER 11, 2023

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TITLE

DISTRIBUTED ANTENNA LAYOUT PLAN - AREA 'C'

SHEET

EY121C

V1

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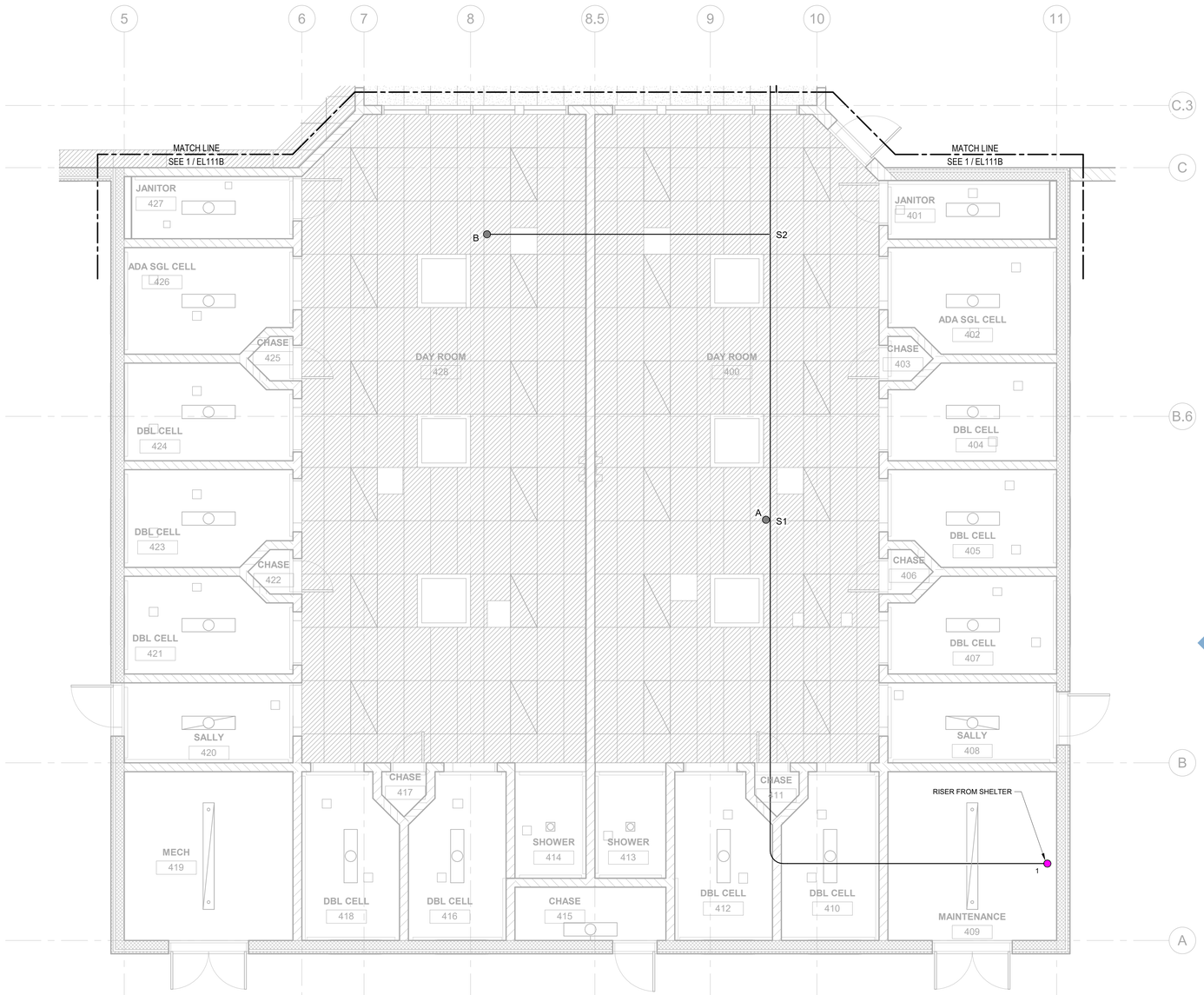


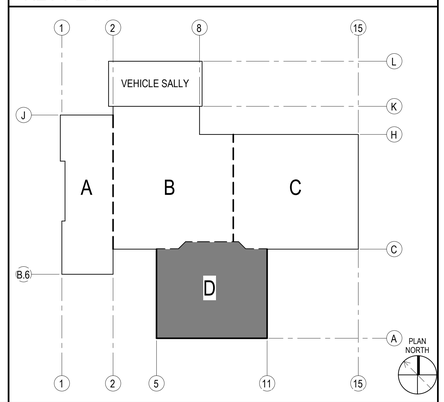
1 **DISTRIBUTED ANTENNA LAYOUT PLAN - LEVEL 1 - ENLARGED - AREA "D"**

SCALE: 1/4" = 1'-0"

PLAN NORTH

Draft

KEY PLAN



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LICENSED PROFESSIONAL ENGINEER CRAIG TRYGSTAD E 14249 ELECTRICAL STATE OF CALIFORNIA

8/25/2023

PROJECT

MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT

MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

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TITLE

DISTRIBUTED ANTENNA LAYOUT PLAN - AREA 'D'

SHEET

EY121D

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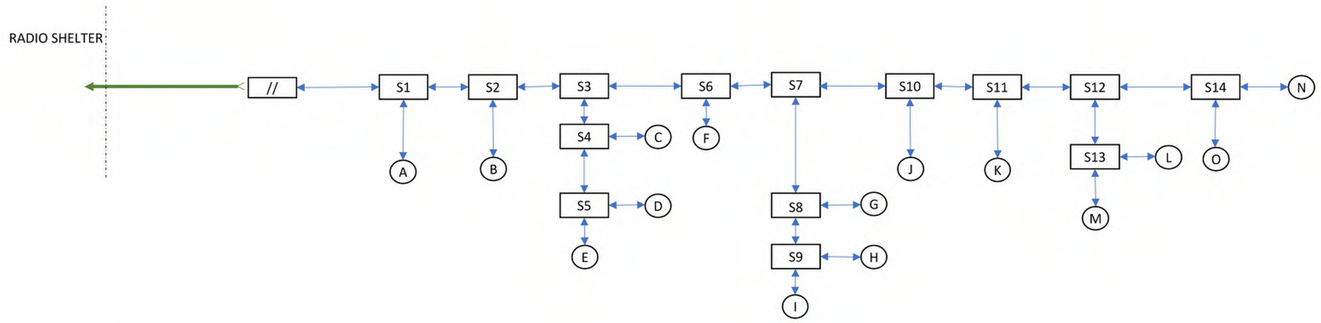

ANTENNA SCHEDULE	
ANTENNA	LOCATION
A	EAST DAYROOM
B	WEST DAYROOM
C	WEST 10 BED DORM
D	LOCKERS
E	WORK ROOM
F	CENTRAL CONTROL
G	EAST 10 BED DORM
H	KITCHEN
I	WALK-IN COOLER
J	CORRIDOR S/O LAUNDRY
K	CORRIDOR NE/O CENTRAL CONTROL
L	PROCESSING
M	VEHICLE SALLY
N	STORAGE/CERT
O	LOBBY

SPLITTER SCHEDULE					
SPLITTER	OUTPUT	RATIO	OUTPUT	RATIO	EMR MODEL #
S1	A	4%	S2	96%	2492/T-B
S2	B	4%	S3	96%	2492/T-B
S3	S4	25%	S6	75%	2492/T-B
S4	C	25%	S5	75%	2492/T-B
S5	D	50%	E	50%	2412-0/C
S6	S7	90%	F	10%	2412-0/C
S7	S8	25%	S10	75%	2492/T-B
S8	G	25%	S9	75%	2492/T-B
S9	H	50%	I	50%	2412-0/C
S10	J	25%	S11	75%	2492/T-B
S11	K	25%	S12	75%	2492/T-B
S12	S13	50%	S14	50%	2412-0/C
S13	L	50%	M	50%	2412-0/C
S14	N	50%	O	50%	2412-0/C

LEGEND	
→	N MALE CABLE CONNECTOR
<	N FEMALE CABLE CONNECTOR
S#	SPLITTER/TAP - SEE SCHEDULE
A	ANTENNA =- SEE SCHEDULE
//	DC BLOCK FAIRVIEW MW #3466
BLUE CBL	RFS "DRAGONSKIN" 1/2" COAXIAL CABLE
GREEN CBL	5/8" LDF COAXIAL CABLE

DISTRIBUTION LOSS CALCULATIONS																				
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14	SPLITTER LOSS (dB)	EST DIST (FT)	# TAPS	CABLE LOSS (dB)	CONN LOSS (dB)	TOTAL LOSS (dB)
A	15														15	42	1	0.4	0.1	15.5
B	0.2	15													15.2	83	2	0.8	0.2	16.2
C	0.2	0.2	6	6											12.4	128	4	1.2	0.4	14.0
D	0.2	0.2	6	1.25	3										10.65	171	5	1.6	0.5	12.7
E	0.2	0.2	6	1.25	3										10.65	196	5	1.8	0.5	13.0
F	0.2	0.2	1.25			10									11.65	104	6	1.0	0.6	13.2
G	0.2	0.2	1.25			0.45	6	6							14.1	132	6	1.2	0.6	15.9
H	0.2	0.2	1.25			0.45	6	1.25	3						12.35	170	7	1.6	0.7	14.6
I	0.2	0.2	1.25			0.45	6	1.25	3						12.35	98	7	0.9	0.7	14.0
J	0.2	0.2	1.25			0.45	1.25			6					9.35	168	6	1.6	0.6	11.5
K	0.2	0.2	1.25			0.45	1.25			1.25	6				10.6	115	7	1.1	0.7	12.4
L	0.2	0.2	1.25			0.45	1.25			1.25	1.25	3	3		11.85	173	9	1.6	0.9	14.4

1 DAS SCHEMATIC DIAGRAM, CALCS & SCHEDUES

SCALE: NONE

Draft

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TITLE
DAS SCHEMATIC DIAGRAM, CALCS & SCHEDULES

SHEET
EY611
V1

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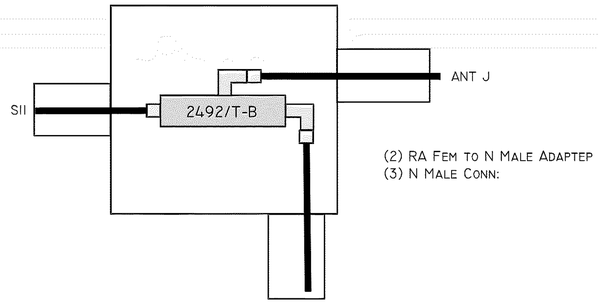
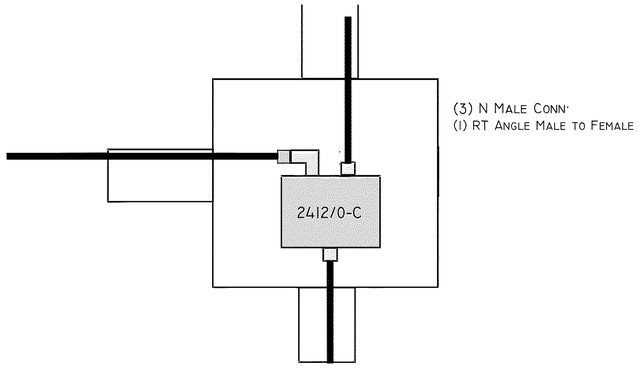
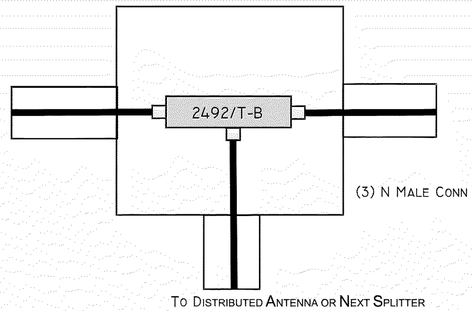


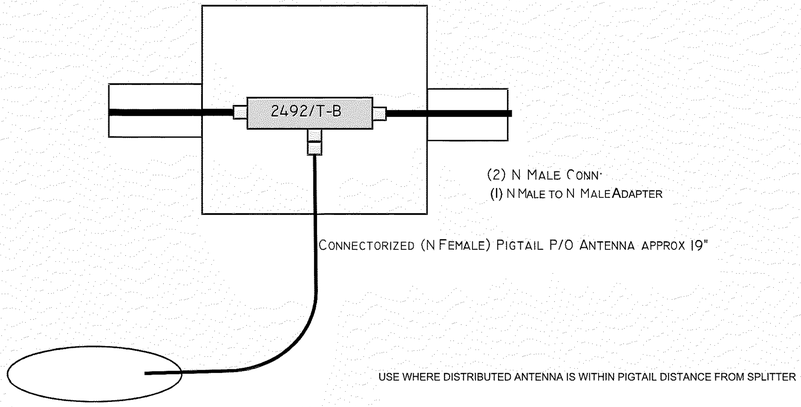
1 SPLITTER DETAIL - S10



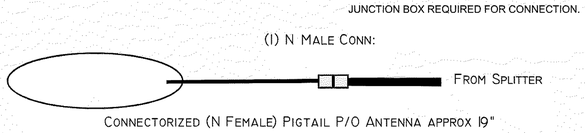
2 SPLITTER DETAIL - S5, S9, S12, S14



5 SPLITTER DETAIL: S2, S3, S6, S7



6 ALTERNATE DISTRIBUTED ANTENNA CONNECTION: S1, S4, S8, S11, S13



3 DISTRIBUTED ANTENNA CONNECTION DETAIL

NOT TO SCALE

GENERAL NOTES

1. ALL CONDUIT 2"
2. JUNCTION BOXES MIN 8" x 8" UNLESS NOTED
3. ADJUSTMENTS MADE BE REQUIRED IN THE FIELD, NOT TO SCALE.

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TITLE
DAS CONNECTION DETAILS

SHEET
EY612
V1

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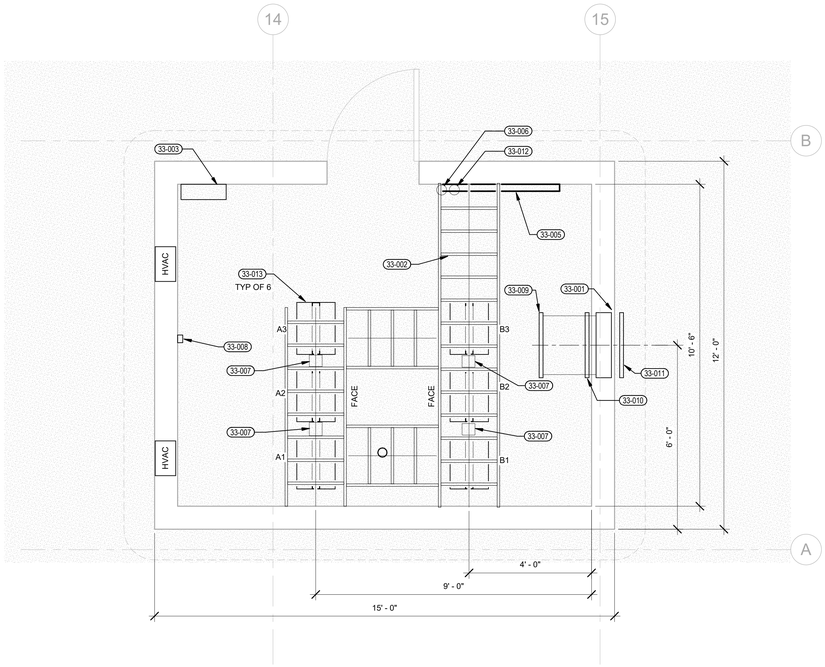

1 RADIO SHELTER FLOOR PLAN

SCALE: 1/2" = 1'-0"

KEY NOTES

33-001	CABLE ENTRY PANEL 2X4 VALMONT MODEL E576 7.5" X 20.5" WALL OPENING.
33-002	24" CABLE TRAY, SEE FRAMEWORK DETAIL.
33-003	SUBPANEL, NON-EMERGENCY POWER SQUARE D MODEL #QO330L200G.
33-005	4' X 4' TELCO BOARD.
33-006	4" CONDUIT STUB FOR FIBER.
33-007	VERTICAL CABLE MANAGEMENT B-LINE MODEL SB572084YZ.
33-008	HVAC CONTROLLER TBD.
33-009	ARRESTOR TRAPEZE KIT VALMONT MODEL ATK306U.
33-010	PRIMARY BUS BAR 20" KIT VALMONT MODEL MG420U-K.
33-011	EXTERIOR BUS BAR 20" KIT TINNED VALMONT MODEL TINMG420U-K.
33-012	4" METALLIC CONDUIT FOR DAS COAX.
33-013	B-LINE MODEL NUMBER SB506084XUYZ, 7' TALL, 19" EIA.

LEGEND

A1 DC CHARGER/BATTERIES
A2 COUNTY REPEATERS/CONTROL STATIONS
A3 COUNTY COMBINING
B1 CRIS RADIOS
B2 CRIS COMBINING
B3 MICROWAVE

Notes:

Foundation design and shelter construction per manufacturer
Skid design and assembly per manufacturer see Section 33 81 29 2.2.A.8
Location of conduits, raceway, smoke detector per manufacturer.
B Row of CRIS Radios including racks provided and installed by others.

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TITLE
RADIO SHELTER FLOOR PLAN

SHEET
R.EY111
V1

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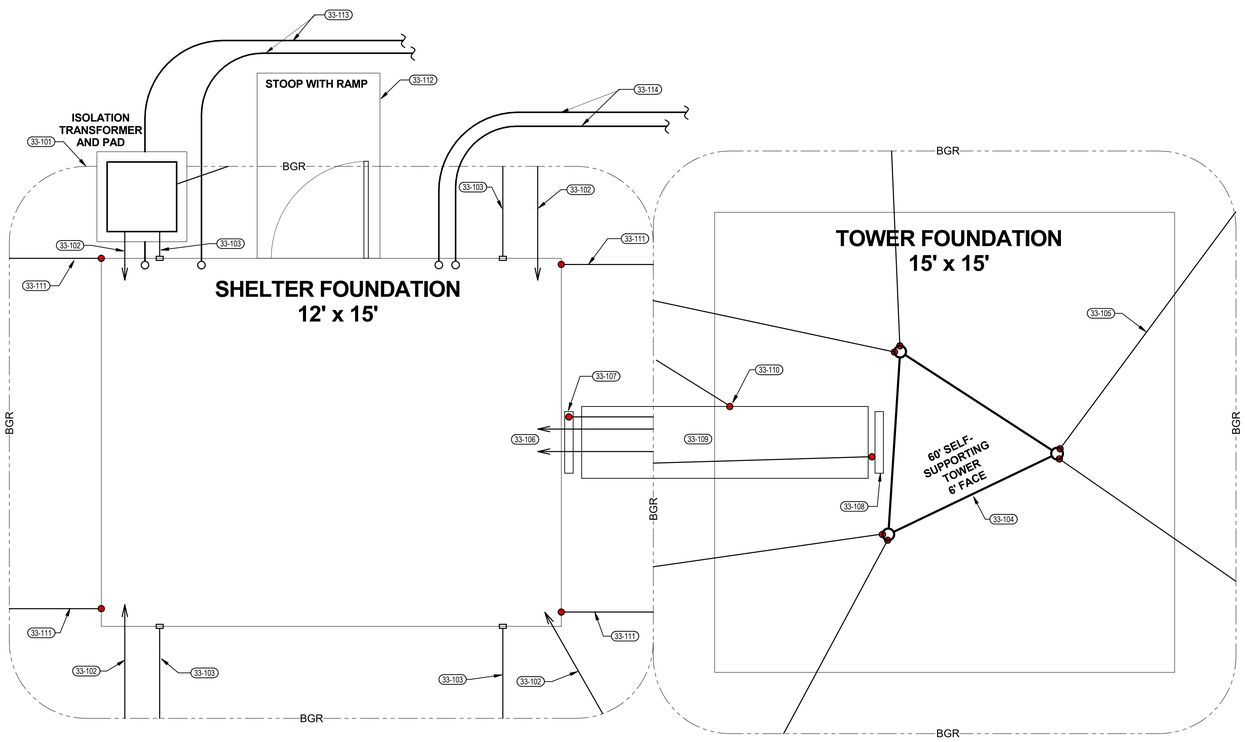

LEGEND	
●——	INTERIOR CONNECTION
←——	CONNECTION
□——	CONNECTION TO BLDG. SKID

1 TOWER AND EXTERIOR GROUNDING PLAN

SCALE: 1/2" = 1'-0"

KEY NOTES

33-101 BURIED GROUND RING (BGR) SHALL BE 30" BELOW GRADE OR BELOW FRONT LINE, WHICH EVER IS DEEPER. BGR SHALL SURROUND TOWER AND LOCATED AT LEAST 24" FROM TOWER FOUNDATION EDGE AND AT LEAST 36" FROM BUILDING FOUNDATION. TOWER GROUND RING AND BUILDING GROUND RING SHALL BE BONDED TOGETHER IN AT LEAST TWO POINTS.

33-102 PROVIDE #2 BARE, SOLID TINNED COPPER WIRE GROUND CONNECTIONS FROM BGR TO BUILDING GROUND WIRES AT ALL PLACES AS SHOWN IN SHELTER DRAWINGS. EXACT LOCATIONS OF CONNECTIONS FROM THE SHELTER TO THE BGR WIRE TO BE DETERMINED FROM SHELTER DRAWING DETAILS. PROVIDE AND INSTALL 1/2" PVC CONDUIT SLEEVES THROUGH SLAB AT LOCATIONS FOR EACH CONNECTION FROM THE SHELTER TO THE BGR. RUN #2 WIRE THROUGH SLEEVES AND CONNECT TO THE SHELTER AS NOTED.

33-103 PROVIDE #2 BARE, SOLID TINNED COPPER WIRE GROUND CONNECTIONS FROM BGR TO BUILDING SKID AT ALL PLACES AS SHOWN IN SHELTER DRAWINGS. EXACT LOCATIONS OF CONNECTIONS FROM THE SHELTER SKID TO THE BGR ARE TO BE DETERMINED FROM SHELTER SKID DETAILS. PROVIDE AND INSTALL 1/2" PVC CONDUIT SLEEVES THROUGH THE SLAB AT LOCATIONS FOR EACH CONNECTION FROM THE SKID AS NOTED. ALL LUG CONNECTIONS TO THE BUILDING SKID SHALL USE 2-HOLE COPPER, IRREVERSIBLE COMPRESSION LUGS INSTALLED USING THE LUG MANUFACTURER RECOMMENDED TOOL FOLLOWING THE MANUFACTURERS INSTRUCTIONS. THE LUGS SHALL BE ARRANGED TO MUNT WITH 2 EACH 3/8" BOLTS ON 1" CENTERS. THE LUGS SHALL BE ATTACHED TO THE BUILDING SKID WITH 3/8-16 X 1! 300 SERIES STAINLESS STEEL BOLTS, FLAT WASHERS, AND LOCK WASHERS.

33-104 VALMONT 60' SELF-SUPPORTING TOWER QUOTE #545533 OR APPROVED EQUIVALENT.

33-105 CONNECTIONS TO THE TOWER SHALL BE MADE BY BONDING TO 2 OF THE ANCHOR BOLTS FOR EACH TOWER LEG TO THE BGR USING #2 AWG BARE, SOLID, TINNED COPPER WIRE. THE WIRE SHALL BE BONDED TO THE ANCHOR BOLTS USING BURNDY GAR TYPE GROUND CONNECTORS SIZED FOR THE ANCHOR BOLT DIAMETER. SEE DETAIL 1 ON SHEET T.EY112.

33-106 INTERIOR GROUND BUS BAR KIT, 20" VALMONT #MG420U-K OR APPROVED EQUIVALENT (TO BE PROVIDED AS PART OF SHELTER)

33-107 EXTERIOR GROUND BUS BAR KIT, TINNED, 20" VALMONT #TINMG420U-K OR APPROVED EQUIVALENT (TO BE PROVIDED AS PART OF SHELTER)

33-108 TOWER GROUNDING BUS BAR, TINNED, 20" VALMONT #TINMG420U-K OR APPROVED EQUIVALENT.

33-109 24" X 10' GRIP-SPAN ICE BRIDGE KIT WITH TRIPLE-TEE TRAPEZE DIRECT BURIAL VALMONT #IB24D-T3 OR APPROVED EQUIVALENT.

33-110 BOND CABLE BRIDGE SUPPORTS TO BGR USING 2 OF THE ANCHOR BOLTS FOR EACH LEG IN THE SLAB WITH #2 AWG BARE, SOLID,TINNED COPPER WIRE CONNECTED USING BURDY GAR TYPE CONNECTORS. SEE DETAIL 1 ON SHEET T.EY112.

33-111 CONNECT THE REBAR IN THE BUILDING SLAB TO THE BGR IN 4 LOCATIONS NEAR THE CORNERS OF THE SLAB USING #2 AWG BARE, TINNED COPPER WIRE. SEE DETAIL 1 OF SHEET T.EY112

33-112 CONCRETE STOOP AND RAMP, 4' WIDE, 4'X4' STOOP MAXIMUM SLOPE ON RAMP SHALL BE NO STEEPER THAN 1:12

33-113 CONDUIT FOR EMERGENCY POWER 3" SCH 80 PVC. BEND RADIUS MINIMUM 36"

33-114 CONDUIT FOR FIBER AND COAX; EACH 4" SCH 80 PVC; PULL (6) APC/OM3 AND (12) PULL-STRINGS IN FIBER CONDUIT; PULL (1) 5/8" COAXIAL CABLE, COMMSCOPE MODEL L4-5 OR APPROVED EQUIVALENT AND (6) PULL-STRINGS THROUGH COAXIAL CABLE CONDUIT. BEND RADIUS MINIMUM 36"

GENERAL NOTES

A. ALL MATERIAL SHALL BE LISTED FOR THE PURPOSE INTENDED.

B. ALL METALLIC OBJECTS WITHIN 20' OF THE TOWER AND OBJECTS WITHIN 6' OF THE BGR SHALL BE BONDED TO THE BGR, INCLUDING BUT NOT LIMITED TO PROPANE TANKS, FENCES, AND GATES.

C. BURIED GROUND RING SHALL BE #2 AWG SOLID, TINNED COPPER. BGR SHALL HAVE A MINIMUM 24" BEND RADIUS. CONNECTIONS TO THE GROUND RODS.

D. ALL CONNECTORS UNDERGROUND SHALL BE EXOTHERMICALLY WELDED USING CADWELD OR APPROVED EQUIVALENT UNLESS OTHERWISE NOTED.

E. GROUND RODS SHALL BE 10 MIL COPPER BONDED 5/8" DIAMETER 10' LONG STEEL WITH THREADED ENDS TO ALLOW COUPLING AND DRIVING WITHOUT DAMAGING THE ROD END, ERITECH #615800 OR APPROVED EQUIVALENT. GROUND RODS SHALL BE PLACED ALONG THE BGR AT 6' TO 10' INTERVALS, AT THE LOCATION WHERE THE GROUNDING CONDUCTOR MEETS THE BGR, AT LOCATIONS WHERE EACH DOWN CONDUCTOR MEETS THE BGR, AND AT ANY OTHER LOCATION WHERE A GROUND BONDING WIRE MEETS THE BGR. GROUND RODS SHALL BE DRIVEN INTO THE GROUND SUCH THAT THE TOP OF THE RODS ARE AT THE DEPTH OF THE BGR. GROUND RODS SHALL BE CONNECTED TO THE BGR USING EXOTHERMICAL WELDS (CADWELD OR OTHER APPROVED PRODUCT). SCREW CLAMP CONNECTORS SHALL NOT BE USED AT ANY TIME.

F. BOND BUILDING ELECTRICAL SERVICE GROUNDING PER NEC TABLE 250.66 TO BGR USING EXOTHERMIC WELDING APPROPRIATE FOR THE WIRE SIZE.

G. PULL BOXES SHALL BE INSTALLED FOR ALL CONDUIT ENTRIES LOCATED AT AN APPROPRIATE DISTANCE FROM ENTRY.

H. COORDINATE ALL CONDUIT RISERS WITH FINAL SHELTER DRAWINGS.

I. NOTE FOR 100DD ADDITIONAL NOTES AND DETAILS ON GATES AND FENCES, HVAC, ETC. TO BE ADDED IF NEEDED.

J. TOWER AND FOUNDATION DESIGN TO BE PROVIDED BY TOWER MANUFACTURER.

Draft

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T.EY111

V1

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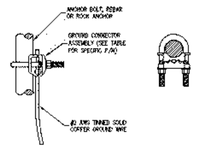
8/28/2023 8:43:03 AM

GROUND WIRE TO ANCHOR BOLT, REBAR, OR ROCK ANCHOR CONNECTION						
BURNDY P/N	THOMAS & BETTS P/N	NSI P/N	BOLT OR ROD SIZE (IN)	REBAR SIZE	PIPE SIZE	WIRE SIZE (AWG)
GAR1126		NG-101	0.5	#4	1/4	4 SOL-2/0 STR
GAR6426	GRV5021	VG-104	0.625-0.75	#5, #6	3/8	4 SOL-2/0 STR
GAR1420	GRV7021	VG-106	1.000	#7, #8	1/2-3/4	4 SOL-2/0 STR
GAR1526	GRV13021	VG-114	1.125-1.25	#9, #10	1	4 SOL-2/0 STR
GAR1626	GRV15021	VG-120	1.375-1.50	#11	1 1/4	4 SOL-2/0 STR
GAR1726	GRV17021	VG-126	1.625-1.80		1 1/2	4 SOL-2/0 STR
GAR1526	GRV22021	VG-132	2.000-2.25		2	4 SOL-2/0 STR
GAR1926	GRV27021	VG-137	2.500-2.75		2 1/2	4 SOL-2/0 STR
GAR2026	GRV30021	VG-142	3.000-3.50		3	4 SOL-2/0 STR
GAR2126	GRV37021	VG-147	3.500-4.00		3 1/2	4 SOL-2/0 STR
GAR2226	GRV40021		4.000-4.50		4	4 SOL-2/0 STR
GAR2326					4 1/2	4 SOL-2/0 STR
GAR2426					5	4 SOL-2/0 STR



1 GROUND WIRE CONNECTION
NOT TO SCALE

1 GROUNDING DETAIL

SCALE: NONE

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MONO COUNTY PUBLIC WORKS DEPARTMENT

P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
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TITLE

GROUNDING DETAIL

SHEET

T.EY112

V1

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SYMBOLS LEGEND - ELECTRONIC SECURITY SYSTEMS

NOT ALL SYMBOLS WILL BE USED ON THIS PROJECT

VIDEO SURVEILLANCE SYSTEMS

- NEW IP FIXED CAMERA
- NEW IP CAMERA WITH PAN-TILT ZOOM DRIVE UNIT
- NEW 180° FISHEYE IP CAMERA, 12MP
- NEW 360° FISHEYE IP CAMERA, 12MP
- 8'-0" NEW 180° MULTISENSOR CAMERA, HEIGHT AS INDICATED
- 8'-0" _'-_"AFF NEW 180° MULTISENSOR CAMERA, HEIGHT AS INDICATED
- 9'-0" _'-_"AFF NEW 270° MULTISENSOR CAMERA, HEIGHT AS INDICATED
- 14'-0" NEW 360° MULTISENSOR CAMERA
- FUTURE CAMERAS W/CABLE OR PULLSTRING & CONDUIT INSTALLED TO BOX
- WALL BRACKET SYMBOL INDICATES SECURITY DEVICE SHALL BE WALL MOUNTED, HEIGHT AS INDICATED

EQUIPMENT ABBREVIATIONS

VMS	VIDEO MANAGEMENT SERVER
VW#	VIDEO WORK STATION (NUMBER REPRESENTS INSTANCE)
TS#	TOUCHSCREEN WORK STATION (NUMBER REPRESENTS INSTANCE)
VVS	VIDEO VISITATION STATION
ICS	INTERCOM CONTROL SYSTEM
ECS	ELECTRONIC CONTROL SYSTEM
ACS	ACCESS CONTROL SYSTEM
ACP	ACCESS CONTROL PANEL
UPS	UNINTERRUPTIBLE POWER SUPPLY

SUBSCRIPTS FOR ALL SYMBOLS:

C	CONDUIT
S	SURFACE MOUNTED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
E	EXISTING TO REMAIN/MAINTAINED
EA	EXISTING TO BE ABANDONED IN PLACE
ER	EXISTING TO BE REMOVED AND TURNED OVER TO OWNER
ERR	EXISTING TO BE REMOVED, RELOCATED AND RECONNECTED
R	RELOCATED EXISTING
F	FRAME MOUNTED SECURITY DEVICE

ELECTRONIC/DOOR/ACCESS CONTROL SYSTEMS

- ELECTRIC DOOR STATUS INDICATOR DEVICE. SEE HARDWARE AND DOOR SCHEDULE FOR FUNCTIONAL DESCRIPTION
- ELECTRIC CONTROLLED DOOR. SEE HARDWARE AND DOOR SCHEDULES FOR FUNCTIONAL DESCRIPTION
- ELECTRIC CONTROLLED AND MONITORED DOOR. SEE HARDWARE AND DOOR SCHEDULES FOR FUNCTIONAL DESCRIPTION
- K ELECTRIC CONTROLLED AND MONITORED DOOR K – ELECTRICALLY OPERATED BY KEY
- INTERLOCK GROUP
- EXIT CALL LIGHT
- TS TOUCHSCREEN STATION
- ECS ELECTRONIC CONTROL SYSTEM EQUIPMENT
- CARD READER FOR ACCESS CONTROL
- G CARD READER FOR ACCESS CONTROL GLASS MOUNTED
- P CARD READER FOR ACCESS CONTROL POST MOUNTED
- KP CARD READER FOR ACCESS CONTROL KEYPAD COMBINATION
- KP HIRSCH KEYPAD FOR ACCESS CONTROL WALL MOUNTED
- REQUEST TO EXIT SWITCH (MICRO-SWITCH) TO BE BUILT IN THE LOCK AND PROVIDED BY THE DOOR HARDWARE CONTRACTOR
- S REQUEST TO EXIT SWITCH DESK/SURFACE MOUNTED
- W REQUEST TO EXIT PUSHBUTTON WALL MOUNTED
- KEY SWITCH, WALL MOUNTED WITH OPEN STOP CLOSE FUNCTION TO BE PROVIDED BY DOOR MANUFACTURER
- D S DURESS ALARM PUSHBUTTON STATION (DESK/SURFACE MOUNTED)
- D DURESS ALARM PUSHBUTTON STATION (WALL MOUNTED)
- F D DURESS ALARM PUSHBUTTON STATION (FRAME MOUNTED)
- D DURESS ALARM PUSHBUTTON LIGHT (CEILING MOUNTED)
- D DURESS ALARM PUSHBUTTON LIGHT (WALL MOUNTED)
- MD MOTION DETECTOR

COMMUNICATION SYSTEMS

- INTERCOM STATION, WALL MOUNTED, WITH CALL-IN PUSH-BUTTON
- F INTERCOM STATION, FRAME MOUNTED
- P INTERCOM STATION, POST MOUNTED
- INTERCOM SPEAKER, CEILING MOUNTED, RECESSED, SECURITY TYPE
- S INTERCOM SPEAKER, CEILING MOUNTED, SURFACE
- D STAFF INTERCOM STATION, DESK MOUNTED
- CALL PUSH-BUTTON
- F CALL PUSH-BUTTON FRAME MOUNTED
- PAGING SPEAKER, CEILING MOUNTED, RECESSED, SECURITY TYPE
  - INMATE DAYROOMS AND RESIDENCE AREAS: TWO-WAY TALK-BACK PAGING.
  - CORRIDORS AND GENERAL CIRCULATION: ONE-WAY PAGING.
- W PAGING SPEAKER, WALL MOUNTED, RECESSED, SECURITY TYPE, HEIGHT AS INDICATED
  - INMATE DAYROOMS AND RESIDENCE AREAS: TWO-WAY TALK-BACK PAGING.
  - CORRIDORS AND GENERAL CIRCULATION: ONE-WAY PAGING.
- G PAGING HORN, WALL MOUNTED, RECESSED WITH VANDAL RESISTANT GRILL, HEIGHT AS INDICATED
- M MICROPHONE, CEILING MOUNTED
- M MICROPHONE, WALL MOUNTED
- NON-CONTACT VISITATION INTERCOM (HANDSETS)

MISCELLANEOUS

- TSP TRANSIENT SURGE PROTECTOR
- 120VAC DUPLEX RECEPTACLE BY DIVISION 26. NORMAL POWER CIRCUIT
- E 120VAC DUPLEX RECEPTACLE BY DIVISION 26. EMERGENCY POWER CIRCUIT
- U 120VAC DUPLEX RECEPTACLE BY DIVISION 26. UPS POWER CIRCUIT
- E ELECTRICAL CONNECTION BY DIVISION 26. EMERGENCY POWER CIRCUIT. CHARACTERISTICS AS NOTED
- U ELECTRICAL CONNECTION BY DIVISION 26. UPS POWER CIRCUIT. CHARACTERISTICS AS NOTED
- P PULL BOX. (NO TERMINATION'S PERMITTED PULL POINT ONLY.)
- EQUIPMENT CABINET
- EQUIPMENT ENCLOSURE
- GROUNDING ELECTRODE & CONDUCTOR
- VD VEHICLE DETECTION FOR INTERCOM CALL INITIATION

WIRE TYPE LEGEND

- DATA CABLE/CAT 6
- FIBER OPTIC CABLE

NOTES:

1. PROVIDE CONDUIT, WIREWAYS, BOXES, FITTINGS AND SUPPORTS FOR A COMPLETE RACEWAY SYSTEMS FOR THE ELECTRONIC SECURITY SYSTEM. WHERE PULLBOXES ARE PROVIDED IN NON-ACCESSIBLE AREAS, PROVIDE ACCESS PANELS.
2. ALL ELECTRONIC SECURITY EQUIPMENT TO BE LOCATED ON WALLS SHALL BE RECESSED MOUNTED (EXCEPT IN EQUIPMENT ROOMS). BRANCH WIRING/HOMERUN CONDUITS TO SUCH EQUIPMENT SHALL BE CONCEALED IN CEILINGS, FLOOR SLABS AND WALLS. SURFACE MOUNTED CONDUITS NOT PERMITTED.
3. ALL CONDUITS SHALL BE SIZED FOR MAXIMUM 40 PERCENT FILL. ALL CONDUCTORS SHALL BE INCLUDED IN FILL CALCULATIONS. MINIMUM CONDUIT SIZE SHALL BE 3/4". USE PLENUM CABLE WHERE REQUIRED BY CODE. USE WATERBLOCKED OR DIRECT BURIAL CABLE WHERE CONDUIT RUNS UNDERGROUND OUTSIDE OF THE BUILDING.
4. SEPARATE CONDUITS SHALL BE PROVIDED FOR EACH SYSTEM TYPE AND FOR NEC CLASS SEPARATION. USE CL2 POWER SUPPLIES FOR LOCK MODELS WHERE RECOMMENDED BY LOCK MANUFACTURER. SOURCE PLC I/O POWER FROM MANUFACTURER RECOMMENDED NEC CLASS # SUPPLY. IF DPS AND LOCK CABLING IS RUN IN THE SAME CONDUIT, THEY MUST BE THE SAME NEC CLASS. USE INTERPOSING RELAYS AT HEAD END FOR STATUS/ALARM INPUTS IF PLC I/O POWER IS A DIFFERENT NEC CLASS THAN LOCK/STATUS POWER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH NEC CLASS SEPARATION AND MFR RECOMMENDATIONS AND TO COORDINATE ACCORDINGLY.
5. COORDINATE INSTALLATION AND SUPPORT SYSTEMS WITH WORK OF OTHER TRADES. PROVIDE IDENTIFICATION OF RACEWAY SYSTEMS FOR ELECTRONIC SECURITY PER SPECIFICATIONS.

CONDUIT FILL SCHEDULE (EMT)

SIZE	40% AREA	LONG RANGE OUTDOOR READER (WEST PENN AOC3186 & AQC225)	INDOOR READER (WEST PENN 3270)	PAGING SPEAKERS / ALARMS (WEST PENN 224)	2-WAY PAGING SPEAKERS (WEST PENN 293)	COMMERCIAL DOOR STRIKE + DPS (CL2) (WEST PENN #244)	ELECTRO MECHANICAL SLIDER (CL1) (5-#14 THHN + 2-#18 TFFN BUNDLE)	ELECTRO MECHANICAL HALF CYCLE (CL1 OR CL2) (5-#14 THHN + 2-#18 TFFN BUNDLE)	CAT 6 (WEST PENN 254246)	FIBER OPTIC CABLE (OM3) FOR MEDIA CONVERTERS INDOOR/OUTDOOR 4 STRAND (OCC # DX004DALT9QRK)
3/4"	0.213	1	9	11	10	8	2	2	5	5
1"	0.346	2	15	19	18	13	4	4	8	10
1 1/4"	0.598	4	28	31	30	22	7	7	14	18
1 1/2"	0.814	6	37	42	40	30	10	10	19	25
2"	1.342	–	61	70	66	51	16	16	32	40
2 1/2"	2.343	–	–	122	116	89	29	29	56	–
3"	3.538	–	–	185	175	134	44	44	85	–
3 1/2"	4.618	–	–	241	230	175	58	58	111	–
4"	5.901	–	–	308	293	224	74	74	142	–

(MFR PART NUMBERS USED FOR MINIMUM SPECS REFERENCE ONLY)

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SEAL

REGISTERED PROFESSIONAL ENGINEER MICHAEL V SMITH M 38164 EXP. 12/31/24 MECHANICAL STATE OF CALIFORNIA 8/15/23

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TITLE
ELECTRONIC SECURITY SYMBOLS LEGEND

SHEET
TY-001

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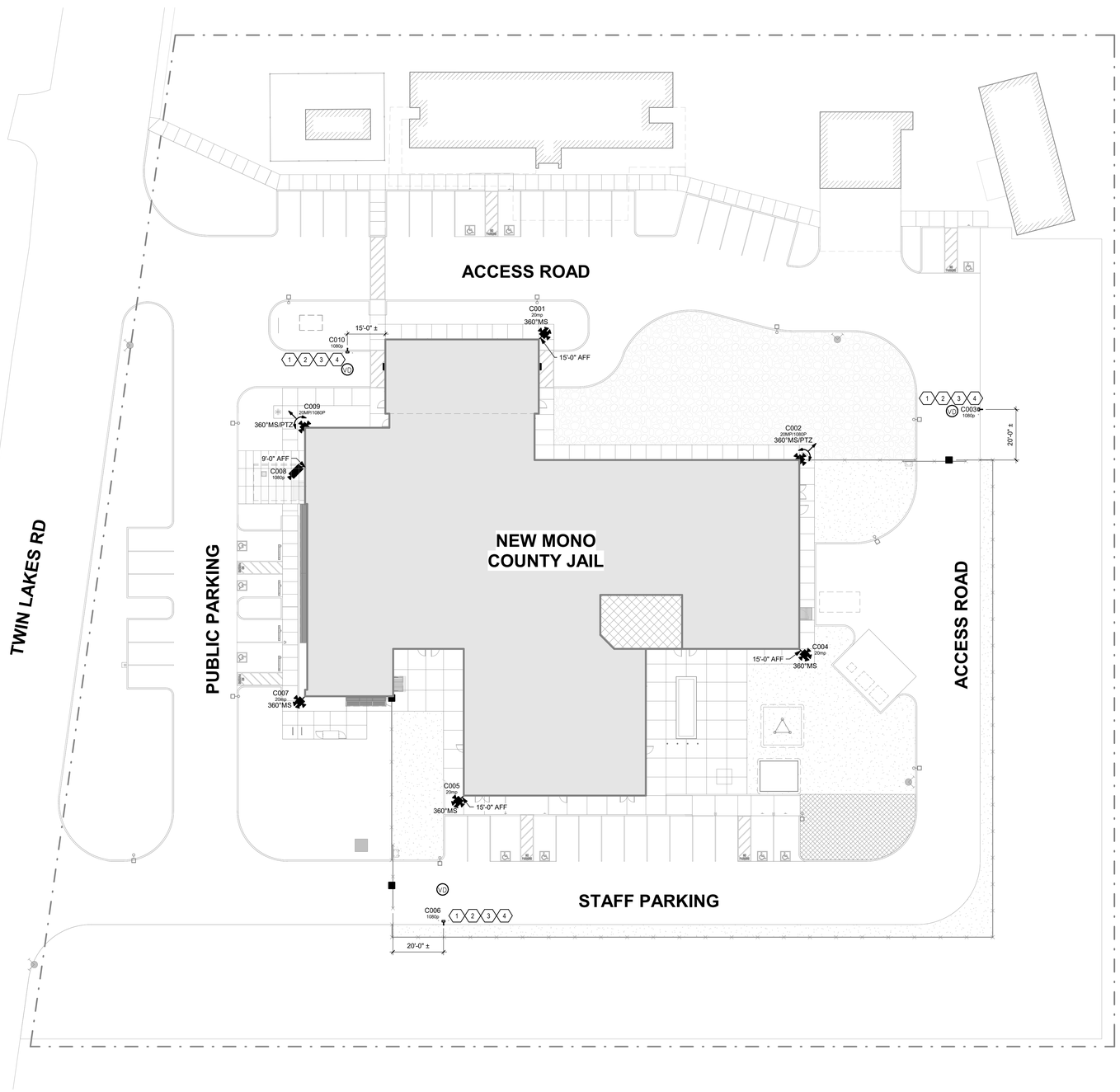


1 SITE PLAN
1" = 20'-0"

GENERAL NOTES

A. ALL CONDUITS/RACEWAY FOR THE NEW ELECTRONIC SECURITY SYSTEM DEVICES AND EQUIPMENT SHOWN ON THIS DRAWING SHALL ROUTE TO SEC. ELEC.#327 UNLESS NOTED OTHERWISE.

NOTES BY SYMBOL ( )

1 PROVIDE VEHICLE DETECTOR AT THE VEHICLE SALLYPORT ENTRANCE FOR AUTOMATIC CALL-UP TO THE TOUCH SCREEN STATION.

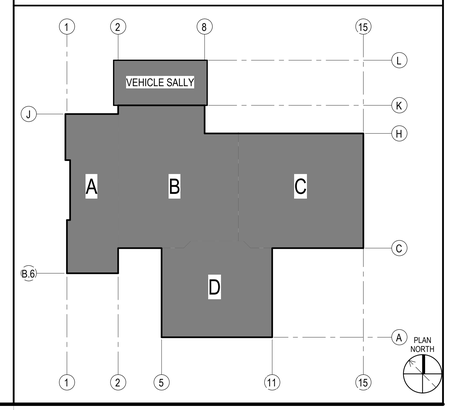
2 SINGLE HEIGHT PEDESTAL MOUNTED INTERCOM, CARD READER AND CAMERA. PROVIDE MEDIA (CAT6 TO FIBER) CONVERTERS FOR THE DATA RUNS FROM THE PEDESTAL TO THE ELECTRONIC SECURITY CABINETS. 1-20A, 120VAC UPS CIRCUIT SHALL BE PROVIDED AT EACH PEDESTAL LOCATION.

3 PROVIDE INTERFACE WITH FIRE ACCESS SYSTEM (KNOX-BOX), AND GATE OPERATION. REFER TO SPEC SECTION 281300, 1.2,G.

4 LOOP DETECTOR PREVENTING GATE/ARM CLOSING WHILE VEHICLES IN TRANSITION AND AUTOMATIC GATE/ARM CLOSING WHEN VEHICLE PASSES ENTRANCE/EXIT SHALL BE PROVIDED BY THE GATE/ARM CONTRACTOR.

Draft

KEY PLAN



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TITLE
SITE PLAN

SHEET
TYS101
V1

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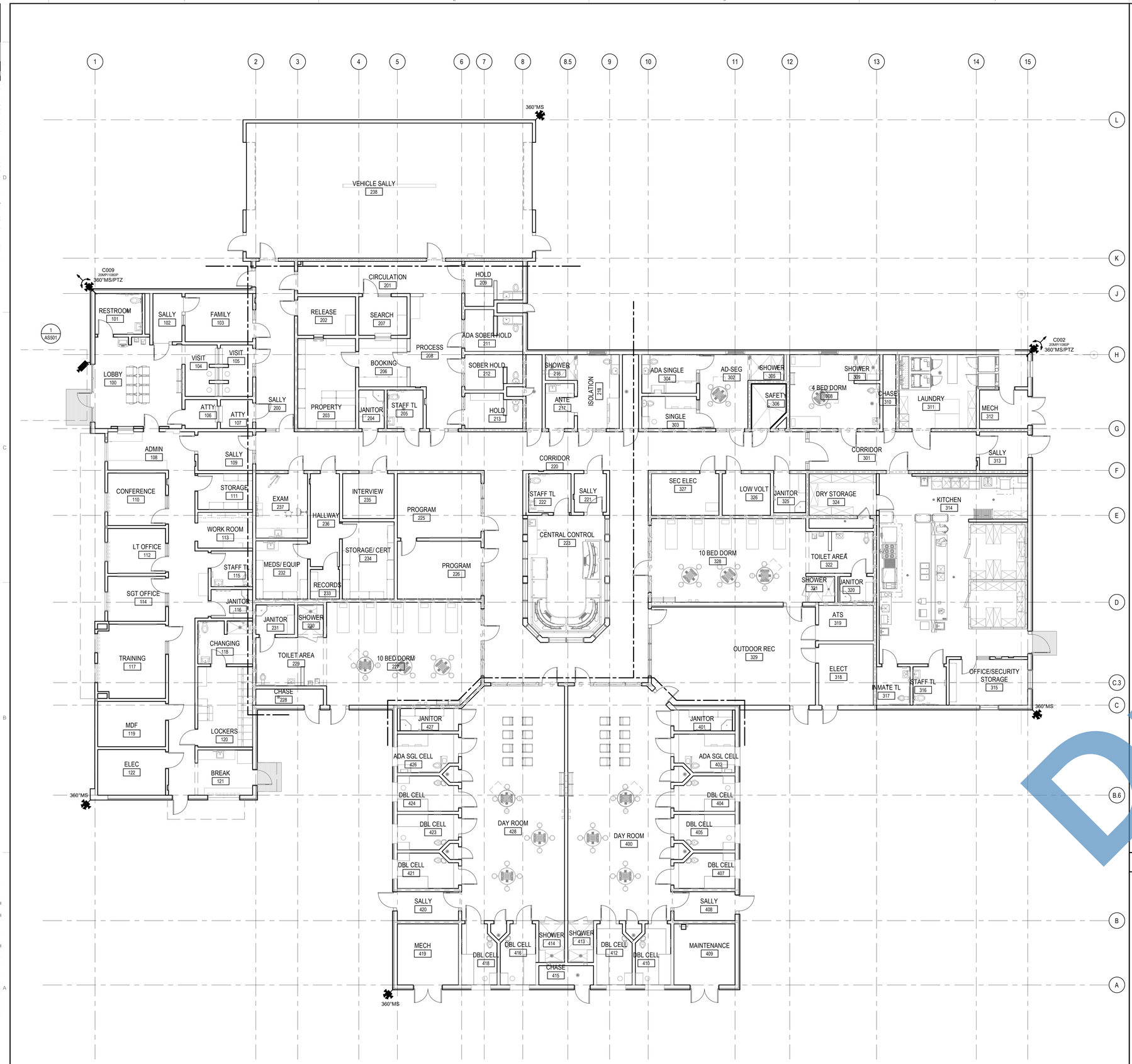
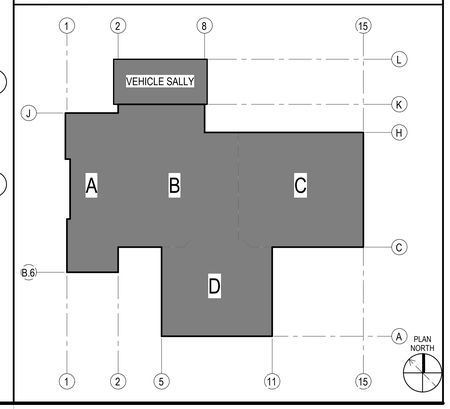


1 FLOOR PLAN - LEVEL 1 - FLOOR PLAN
1/8" = 1'-0"

Draft

KEY PLAN



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TITLE

FLOOR PLAN - LEVEL 1 - OVERALL

SHEET

TY-111

V1

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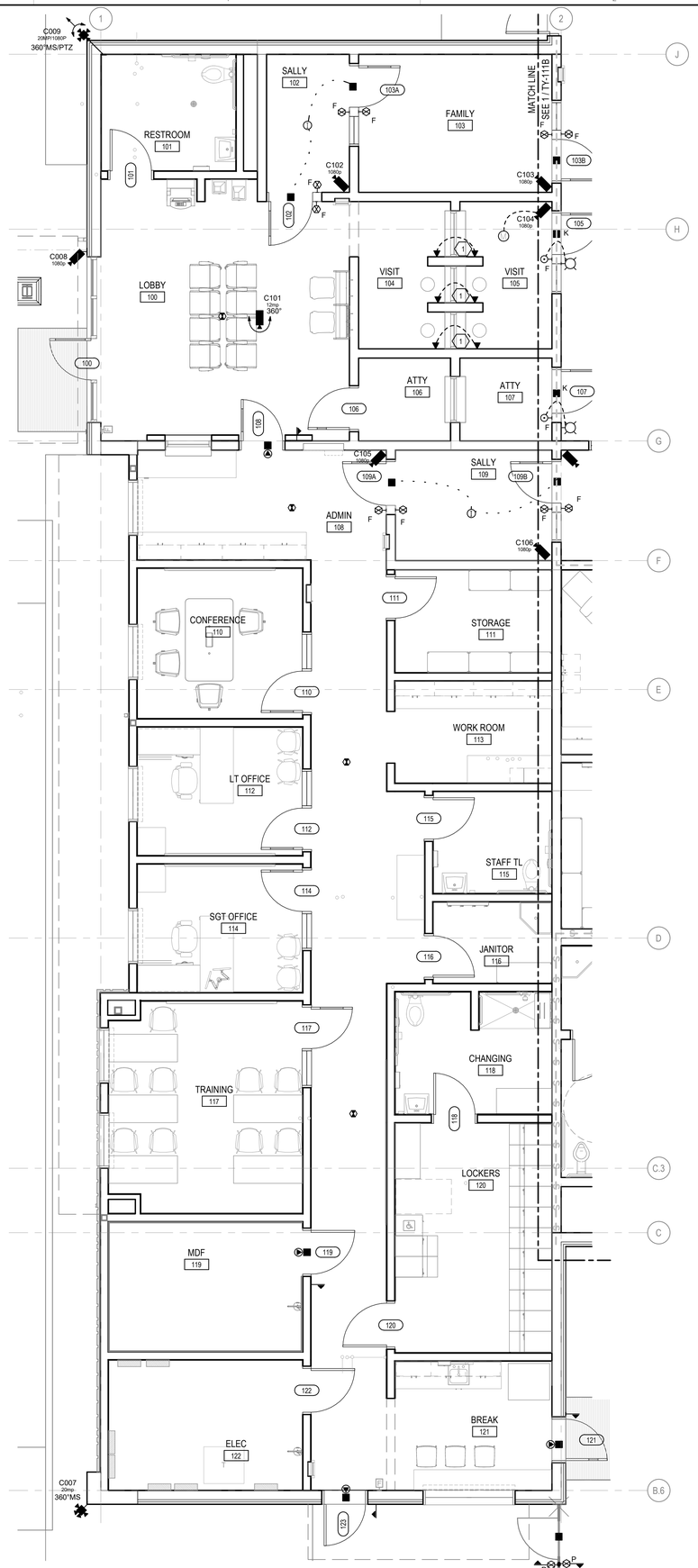
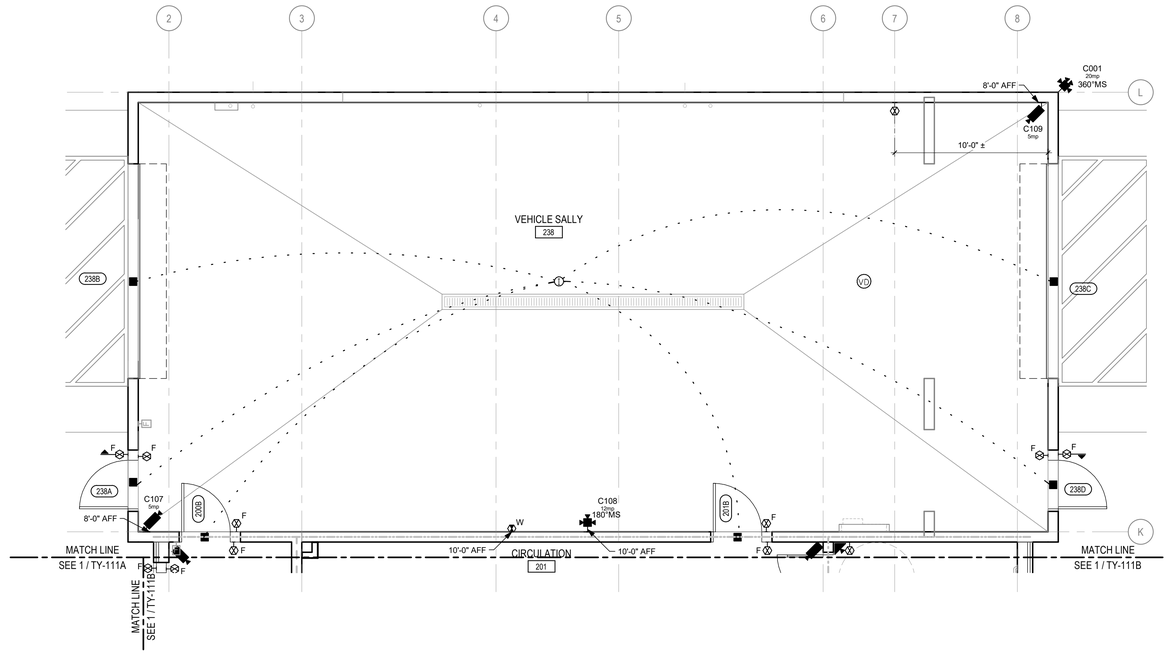


1 FLOOR PLAN - LEVEL 1 - FLOOR PLAN - AREA A

SCALE 1/4" = 1'-0"



2 FLOOR PLAN - LEVEL 1 - FLOOR PLAN - VEHICLE SALLY

SCALE 1/4" = 1'-0"

GENERAL NOTES

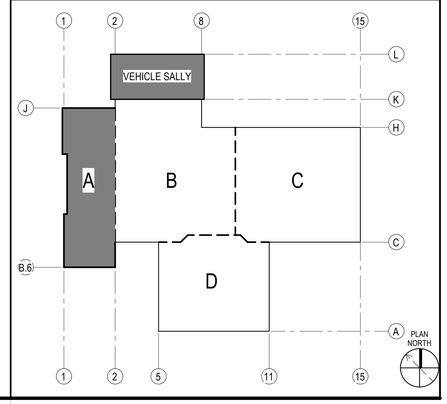
A. ALL CONDUITS/RACEWAY FOR THE NEW ELECTRONIC SECURITY SYSTEM DEVICES AND EQUIPMENT SHOWN ON THIS DRAWING SHALL ROUTE TO SEC. ELEC.#327 UNLESS NOTED OTHERWISE.

NOTES BY SYMBOL ( )

1 PROVIDE CONDUIT, PULL-STRING AND BACK BOX FOR THE OWNER PROVIDED VISITATION HANDSET. CONDUIT SHALL ROUTE TO THE ELECTRONIC SECURITY EQUIPMENT ROOM 164.

Draft

KEY PLAN



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TITLE
FLOOR PLAN - LEVEL 1 - ENLARGED - AREA 'A' AND 'VEHICLE SALLY'

SHEET
TY-111A

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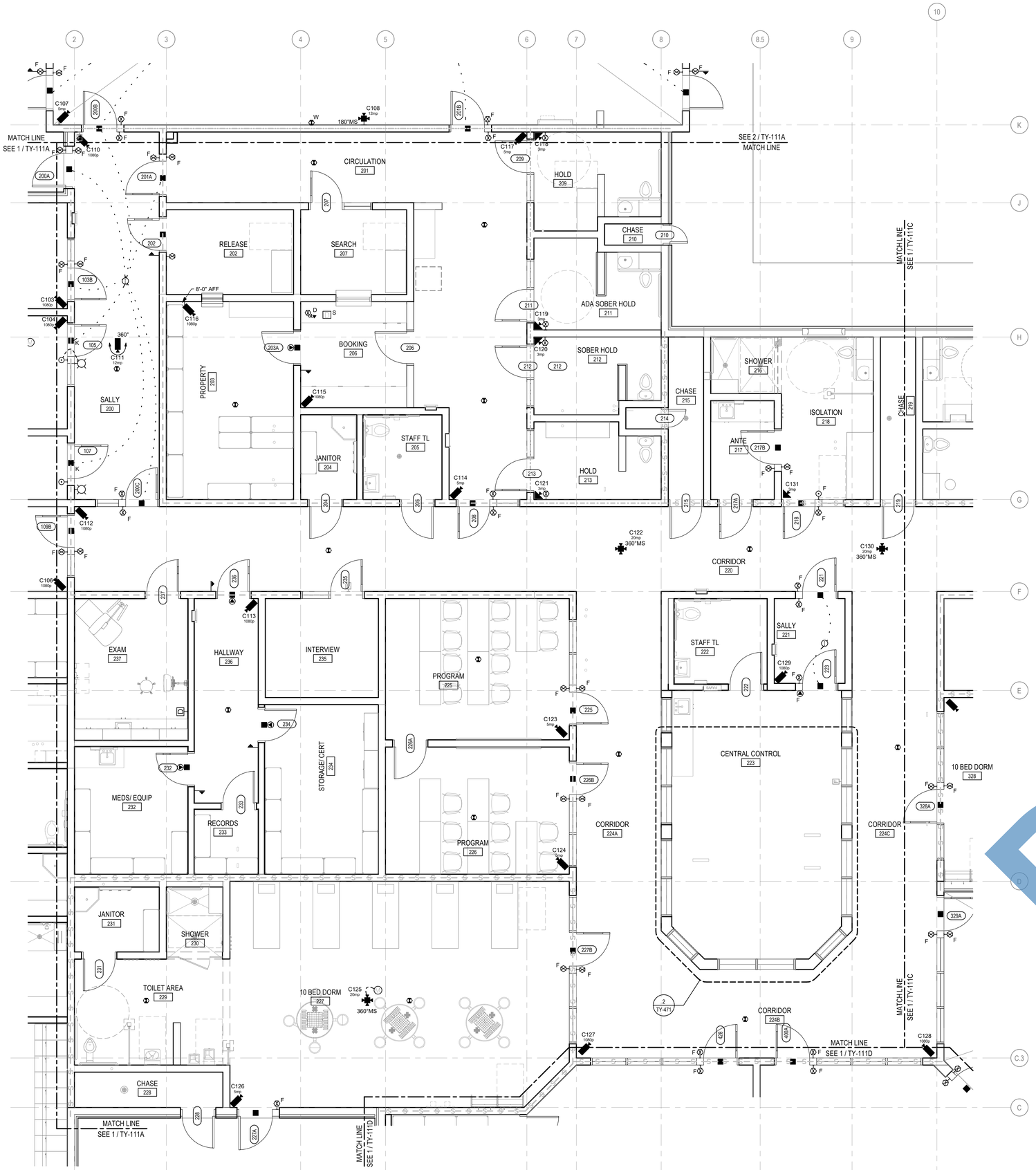

1 FLOOR PLAN - LEVEL 1 - FLOOR PLAN - AREA B

SCALE 1/4" = 1'-0"

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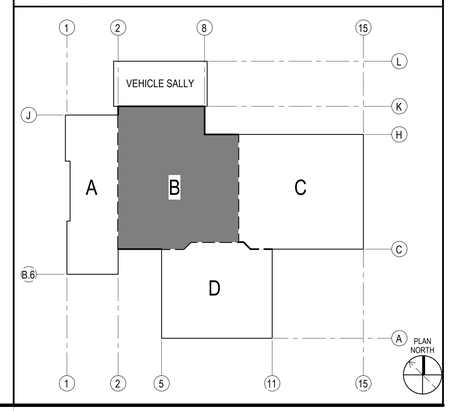

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FLOOR PLAN - LEVEL 1 - AREA B

SHEET

TY-111B

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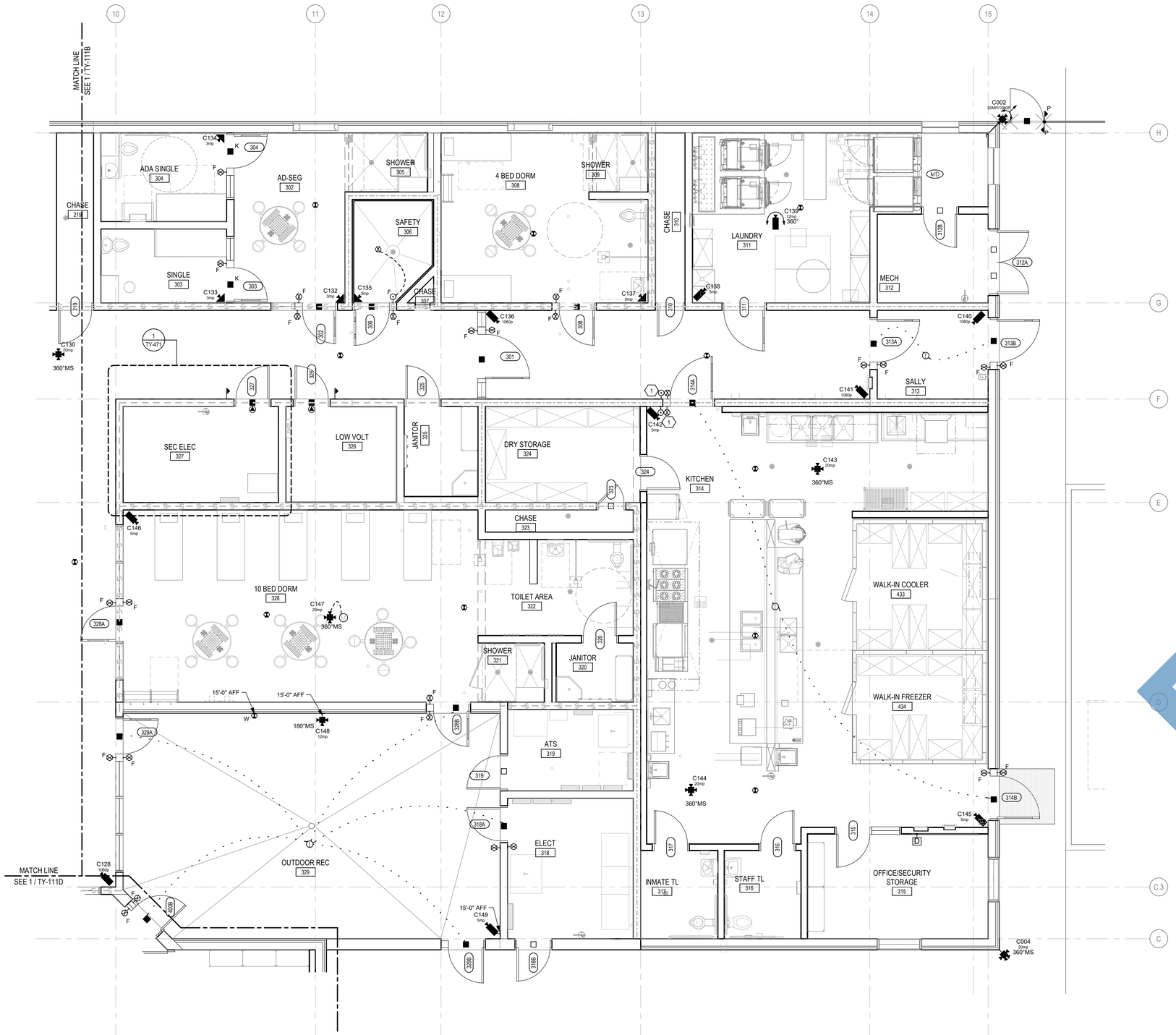

1 FLOOR PLAN - LEVEL 1 - FLOOR PLAN - AREA C

SCALE 1/4" = 1'-0"

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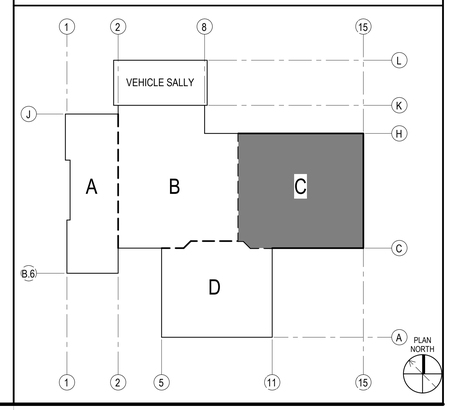
NOTES BY SYMBOL ( )

1 PROVIDE WALL MOUNTED PUSHBUTTON (QUAM CIB2 OR EQUAL, 48"AFF) ON EACH SIDE OF DOOR 314A. PRESSING THE PUSHBUTTON WILL UNLOCK THE DOOR. TOUCH SCREEN CONTROL STATION WILL HAVE CAPABILITY TO UNABLE/DISABLE ORATION OF THE PUSHBUTTONS.

Draft

KEY PLAN



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FLOOR PLAN - LEVEL 1 - AREA C

SHEET

TY-111C

V1

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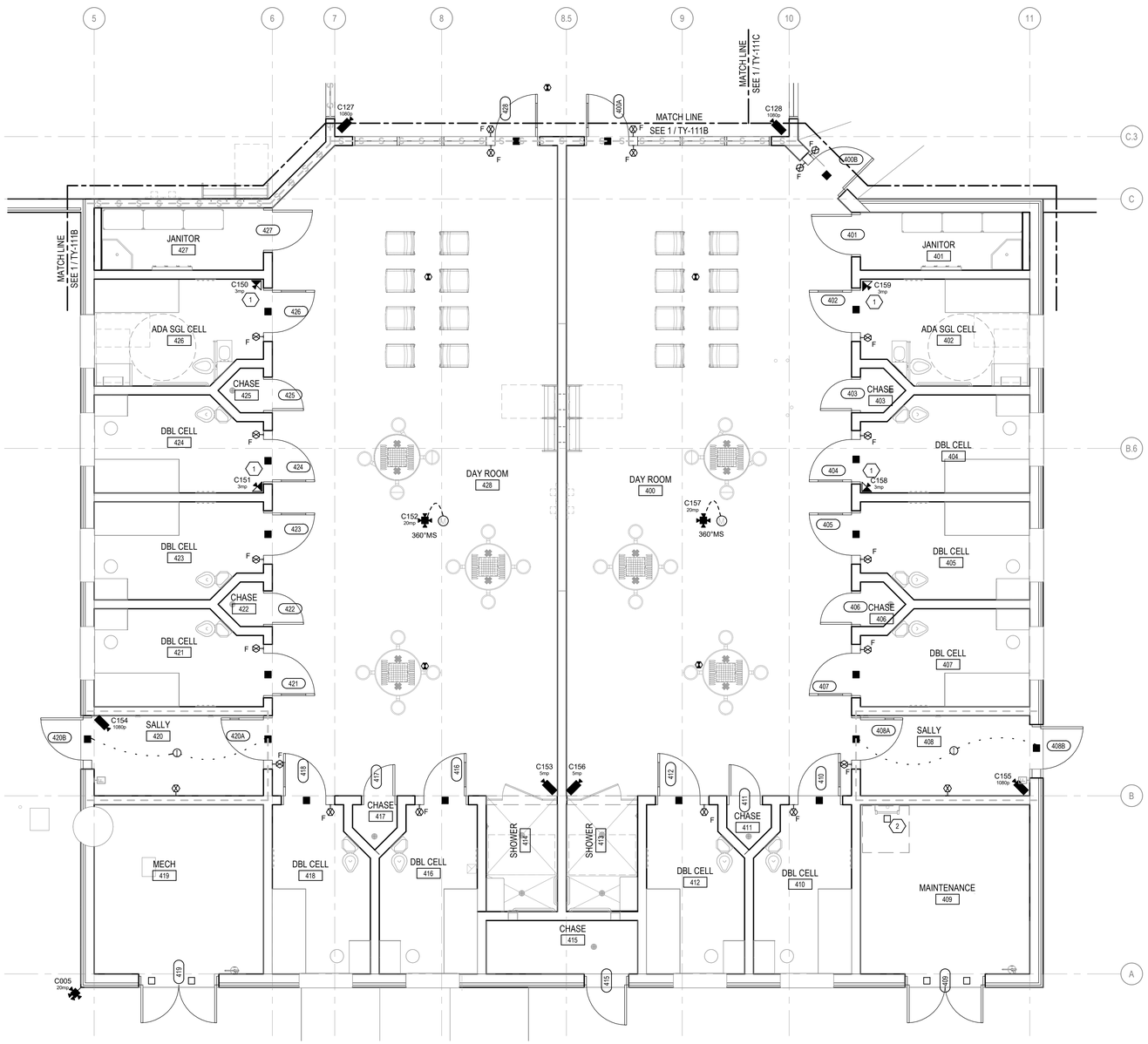

1 FLOOR PLAN - LEVEL 1 - FLOOR PLAN - AREA D

SCALE 1/4" = 1'-0"

GENERAL NOTES

A. ALL CONDUITS/RACEWAY FOR THE NEW ELECTRONIC SECURITY SYSTEM DEVICES AND EQUIPMENT SHOWN ON THIS DRAWING SHALL ROUTE TO SEC. ELEC.#327 UNLESS NOTED OTHERWISE.

NOTES BY SYMBOL ( )

1 FUTURE CAMERA LOCATION. PROVIDE BACKBOX, CONDUIT AND CAT 6 CABLING ROUTED TO SEC ELEC #327.

2 PROVIDE MONITORING FOR THE ROOF HATCH MOUNTED DPS.

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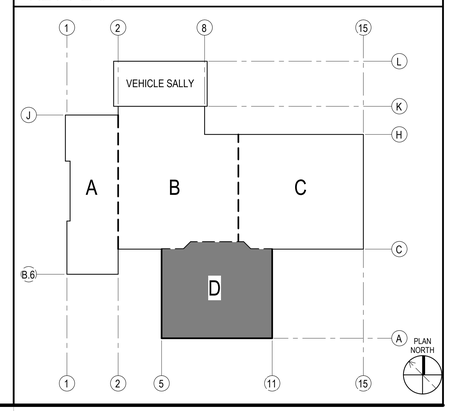
KEY PLAN



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MECHANICAL
STATE OF CALIFORNIA
8/15/23

PROJECT

MONO COUNTY NEW JAIL

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BRIDGEPORT, CA 95317

CLIENT

MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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FLOOR PLAN - LEVEL 1 - AREA D

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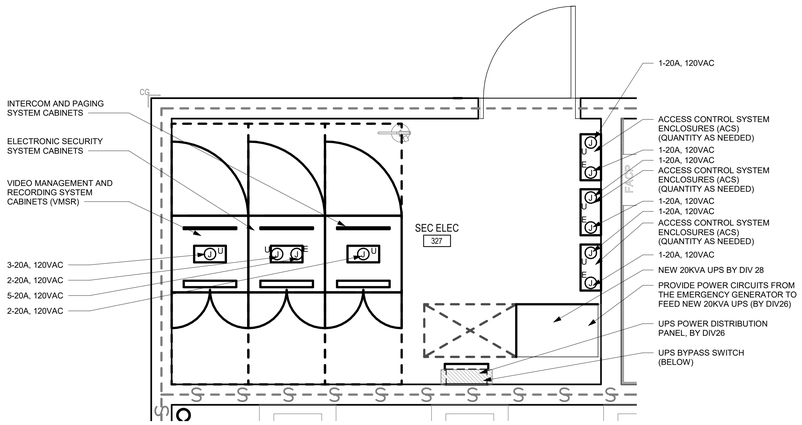
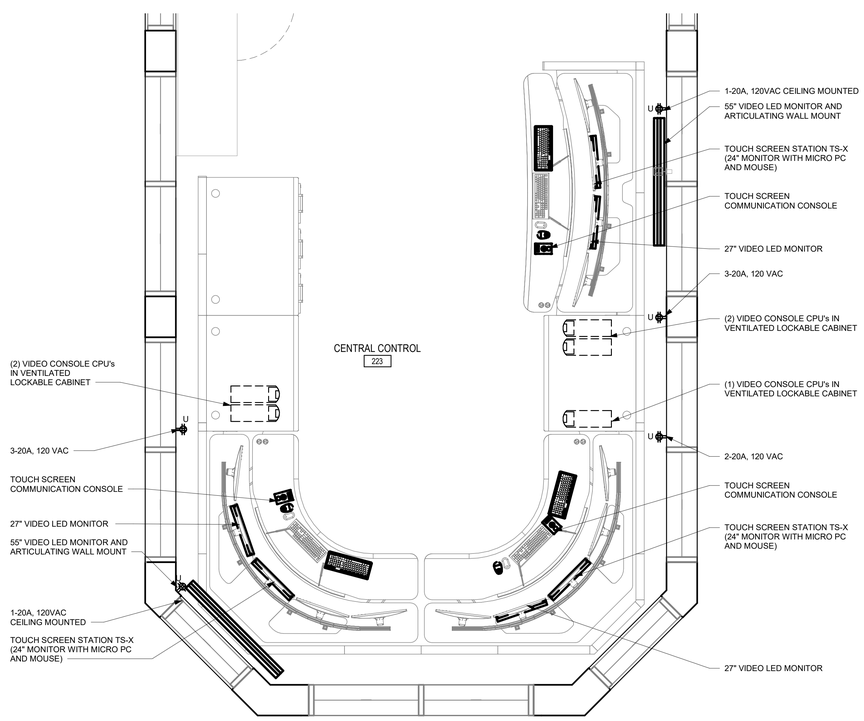


1 ENLARGED PLAN - SEC ELEC #164

1/2" = 1'-0"



2 ENLARGED PLAN - CENTRAL CONTROL #201

1/2" = 1'-0"

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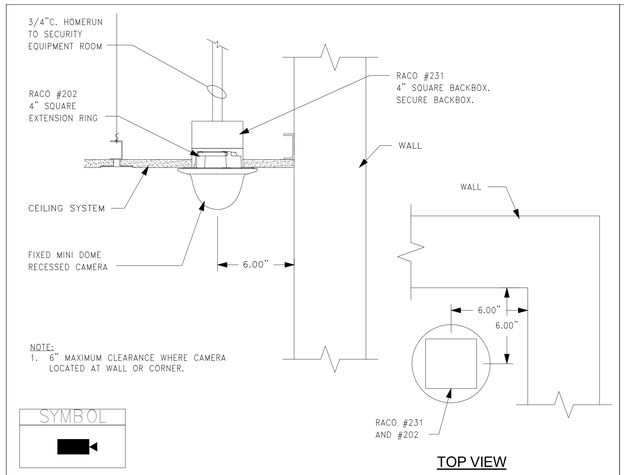

1	FIXED MINI DOME CAMERA DOME CAMERA
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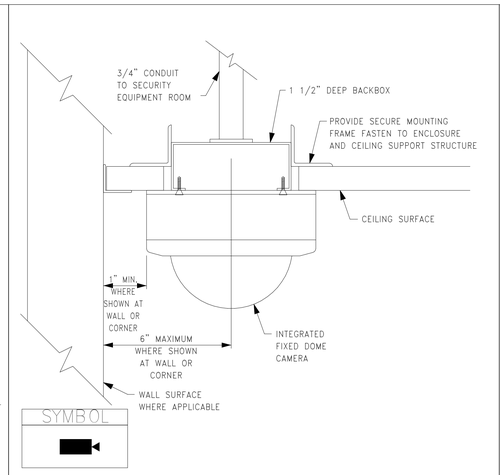

2	SURFACE CEILING MOUNT DOME CAMERA
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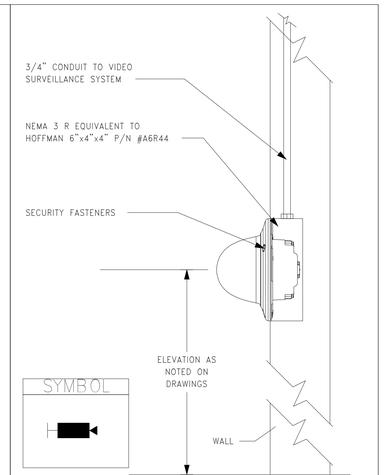

3	WALL MOUNTED DOME CAMERA
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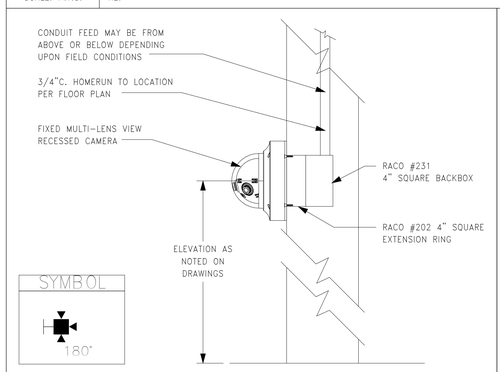

4	180 MULTI-SENSOR LENS CAMERA WALL RECESSED MOUNT DETAIL
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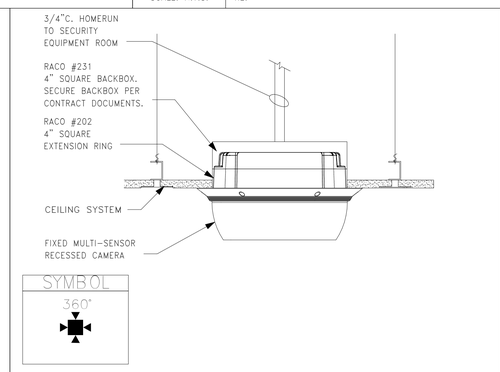

5	360 DEGREE MULTI-SENSOR CAMERA CEILING RECESSED MOUNT DETAIL
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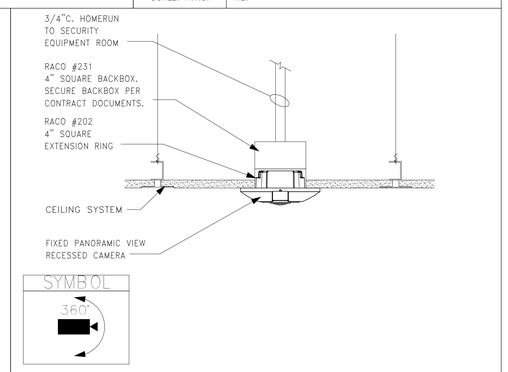

6	360 DEGREE PANORAMIC CAMERA CEILING RECESSED MOUNT DETAIL
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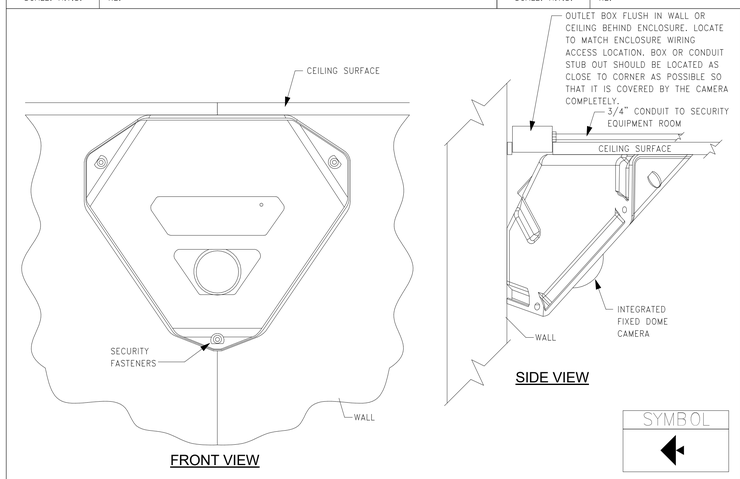
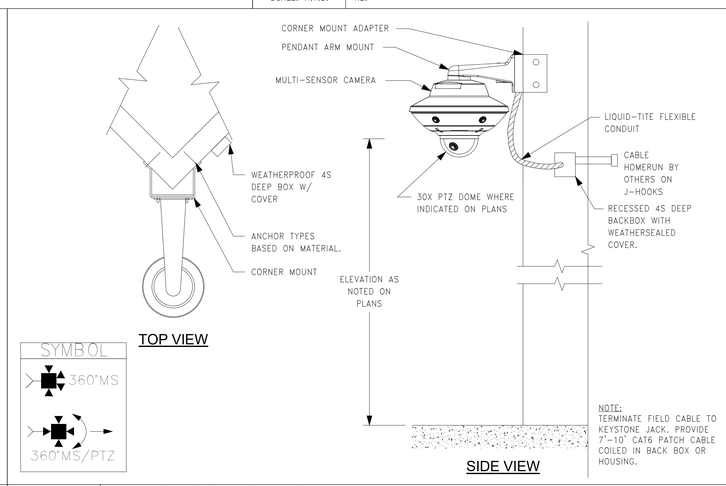


7	CORNER MOUNT VANDAL PROOF CELL CAMERA
SCALE: N.T.S.	RE:



8	MULTISENSOR DOME CAMERA WALL CORNER MOUNT DETAIL
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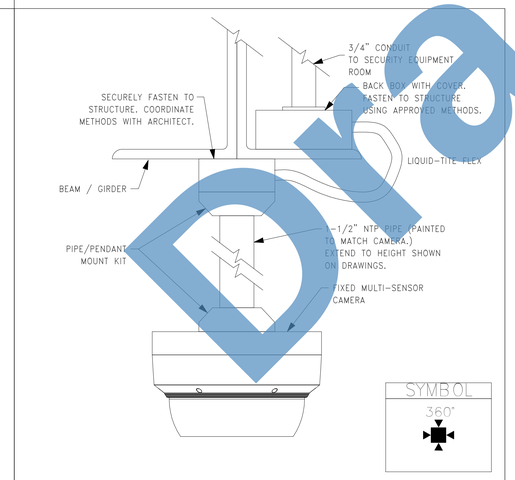

9	CEILING PIPE MOUNTED DOME 360 DEGREE MULTI-SENSOR CAMERA
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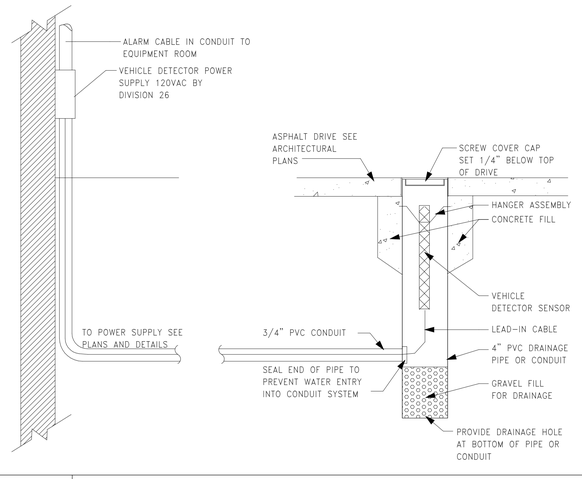

1 VEHICLE DETECTOR DETAIL

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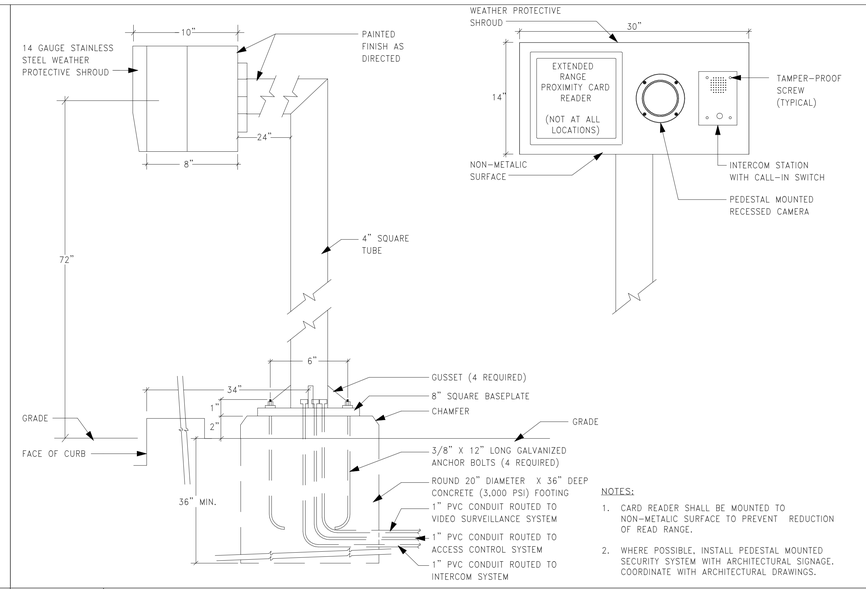

NOTES:

1. CARD READER SHALL BE MOUNTED TO NON-METALIC SURFACE TO PREVENT REDUCTION OF READ RANGE.
2. WHERE POSSIBLE, INSTALL PEDESTAL MOUNTED SECURITY SYSTEM WITH ARCHITECTURAL SIGNAGE. COORDINATE WITH ARCHITECTURAL DRAWINGS.

2 PEDESTAL MOUNTED INTERCOM WITH CARD READER AND/OR CAMERA

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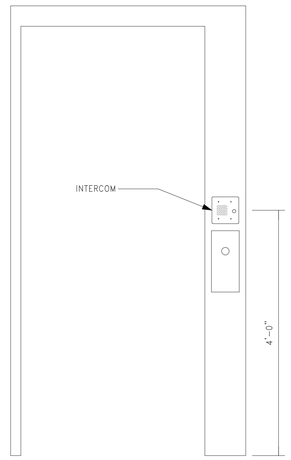
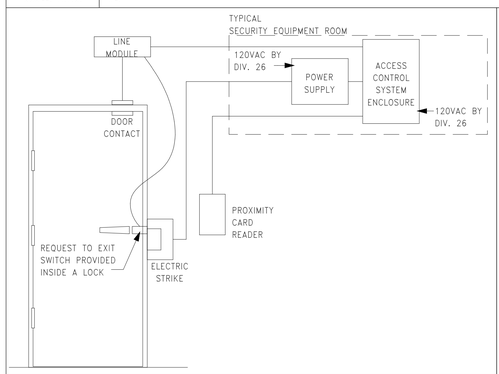


3 FRAME MOUNTED INTERCOM

SCALE: N.T.S. RE:



4 TYPICAL DOOR CONFIGURATION PROXIMITY CARD READER ENTRY

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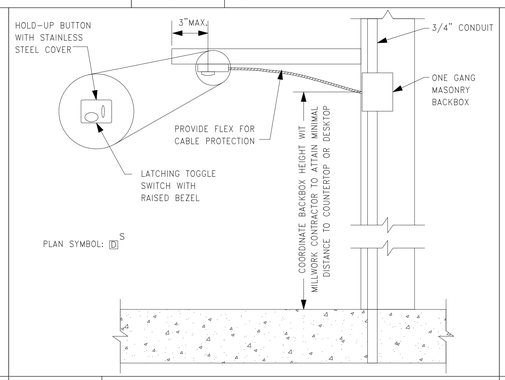
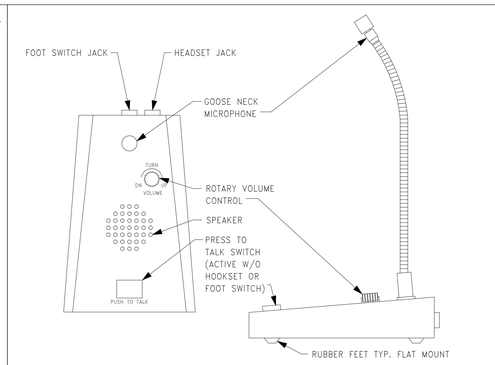


5 UNDER DESK PUSH BUTTON ALARM

SCALE: N.T.S. RE:

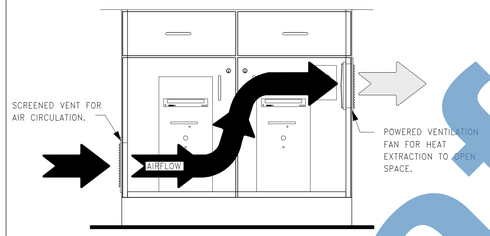


6 TOUCHSCREEN AUDIO INTERFACE

SCALE: N.T.S. RE:

NOTES:

1. CABINET MAY BE SINGLE OR DOUBLED DOOR. SEE ENLARGED PLANS FOR MORE INFORMATION.
2. SCREENED VENTS MAY BE ON FRONT FACE OF CABINET DOOR IF ADJACENT CABINETS ARE PRESENT.
3. FAN SHALL BE INSTALLED ON OPEN SPACE SIDE.



7 TYPICAL VENTILATED CABINET

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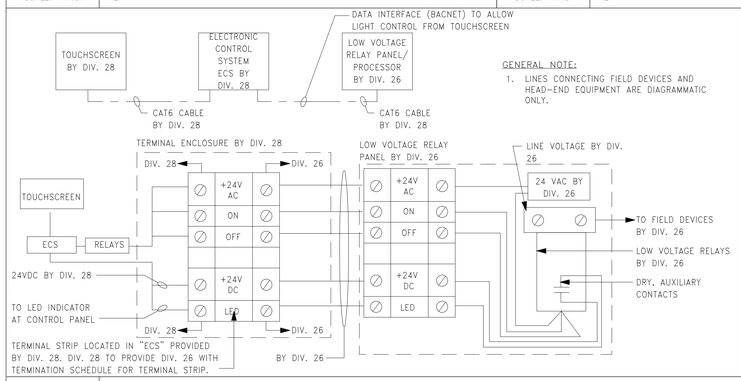

GENERAL NOTE:

1. LINES CONNECTING FIELD DEVICES AND HEAD-END EQUIPMENT ARE DIAGRAMMATIC ONLY.

8 TYPICAL LOW VOLTAGE CONTROL DIAGRAM

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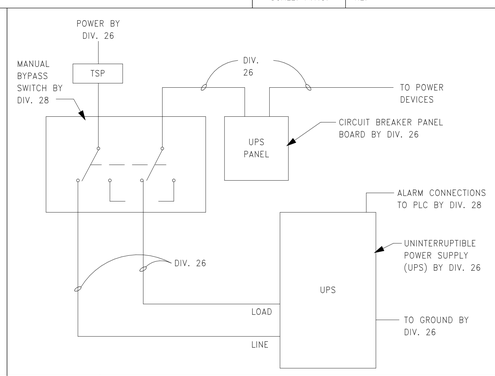

9 UPS CONNECTION DIAGRAM -FLOOR MOUNTED

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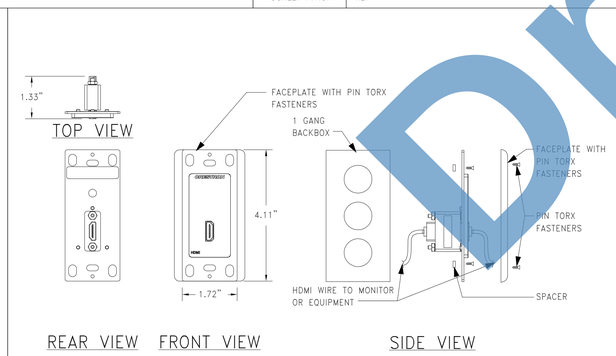

10 HDMI PORT

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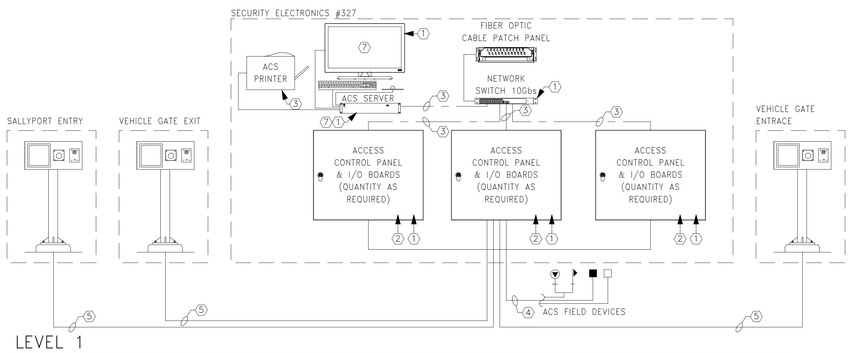


2 ACCESS CONTROL SYSTEM DIAGRAM

SCALE NOT TO SCALE

LEGEND:

DATA CABLE/CAT 6

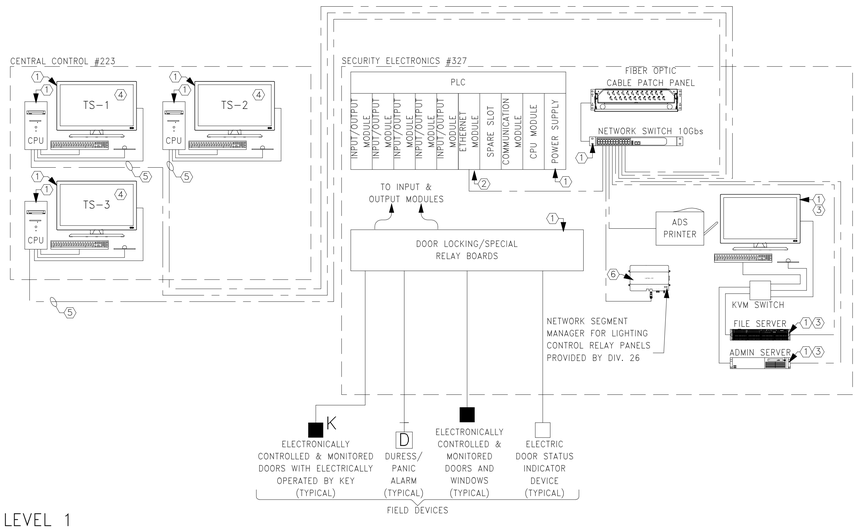
FIBER OPTIC CABLE

GENERAL NOTES:

1. FIBER OPTIC PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL FIBER OPTIC CABLES IN EQUIPMENT CABINETS/ENCLOSURES.
2. PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL DATA CABLES (CAT6) IN EQUIPMENT CABINETS/ENCLOSURES.
3. EXACT NUMBER OF NETWORK SWITCHES AND ELECTRONIC SECURITY HEAD-END EQUIPMENT SHALL BE DETERMINED BY NUMBER OF ACCESS CONTROL SYSTEM FIELD DEVICES TERMINATED AT EACH LOCATION.
4. THE ELECTRONIC SECURITY CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE INTERFACE BETWEEN ACCESS CONTROL SYSTEM AND ELECTRONIC SECURITY SYSTEM AND VIDEO MANAGEMENT & RECORDING SYSTEM. THE INTERFACE WILL INCLUDE ALL REQUIRED SOFTWARE (PROGRAMMING) AND HARDWARE REQUIRED TO ALLOW OVERRIDING CAPABILITY OF THE TOUCH SCREEN CONTROL SYSTEM OVER ACCESS CONTROL SYSTEM.
5. FIBER OPTIC BACKBONE CONNECTING ALL EQUIPMENT ROOMS WITH ELECTRONIC SECURITY SYSTEM EQUIPMENT SHALL BE PROVIDED BY DIV28 CONTRACTOR.
6. CAT6 CABLES FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV 28 CONTRACTOR.
7. CONDUITS FOR THE ELECTRONIC SECURITY SYSTEM EQUIPMENT SHALL BE PROVIDED BY DIV 26 CONTRACTOR.
8. UPS BACKUP POWER FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV 28.

NOTES:

1. 120 VAC, 20A UPS POWER.
2. PROVIDE INTERFACE WITH VIDEO MANAGEMENT AND RECORDING SYSTEM, INTERCOM/PAGING AND TOUCH SCREEN CONTROL AND MANAGEMENT SYSTEM TO ALLOW CONTROL AND MONITORING OF ALL SYSTEMS FROM TOUCH SCREEN CONTROL AND MANAGEMENT SYSTEM. PROVIDE HARD-WIRED SHARING OF SIGNALS BETWEEN THE ACCESS CONTROLLERS AND THE PLC.
3. 1-1" CONDUIT FOR CAT6 CABLE.
4. 1-1" CONDUIT. PROVIDE CABLES AS RECOMMENDED BY EQUIPMENT MANUFACTURER.
5. 1-2" CONDUIT FOR FIBER OPTIC CABLE (4 STRANDS OF MULTIMODE FIBER).
6. NEW ACCESS CONTROL SYSTEM WORKSTATION, BADGE PRINTER AND DIGITAL CAMERA.
7. NEW ACCESS CONTROL SERVER.



1 SYSTEM NETWORK DIAGRAM

SCALE NOT TO SCALE

EQUIPMENT LEGEND:

CPU-TOUCHSCREEN STATION

CPU-ACCESS CONTROL SYSTEM

INTERCOM MASTER STATION

TOUCHSCREEN COMMUNICATION CONSOLE

TS-XX — TOUCH SCREEN CONTROL MONITOR

MON-X — VIDEO MONITOR WORKSTATION

LEGEND:

CAMERA POWER SUPPLY

DATA CABLE/CAT 6

FIBER OPTIC CABLE

COAX CABLE

GENERAL NOTES:

1. FIBER OPTIC PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL FIBER OPTIC CABLES IN EQUIPMENT CABINETS/ENCLOSURES.
2. PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL DATA CABLES (CAT6) IN EQUIPMENT CABINETS/ENCLOSURES.
3. EXACT NUMBER OF NETWORK SWITCHES AND ELECTRONIC SECURITY HEAD-END EQUIPMENT SHALL BE DETERMINED BY NUMBER OF ELECTRONIC SECURITY SYSTEM FIELD DEVICES TERMINATED AT EACH LOCATION.
4. FIBER OPTIC BACKBONE CONNECTING ALL EQUIPMENT ROOMS WITH ELECTRONIC SECURITY SYSTEM EQUIPMENT SHALL BE PROVIDED BY DIV28 CONTRACTOR.
5. ALL ELECTRONIC SECURITY WORKSTATIONS AND SERVERS SHALL BE CONNECTED TO NETWORK SWITCHES VIA CAT6 CABLE. IF THE DISTANCE BETWEEN ANY ELECTRONIC SECURITY EQUIPMENT AND A NETWORK SWITCH EXCEEDS 300' USE FIBER OPTIC CABLE TO TRANSFER VIDEO DATA. PROVIDE CAT6 TO FIBER MEDIA CONVERTERS. PROVIDE POWER FOR MEDIA CONVERTERS.
6. CAT6 CABLES FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV 28 CONTRACTOR.
7. CONDUITS FOR THE ELECTRONIC SECURITY SYSTEM EQUIPMENT SHALL BE PROVIDED BY DIV 26 CONTRACTOR.
8. UPS BACKUP POWER FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV 28.

NOTES:

1. 120 VAC, 20A UPS.
2. PROVIDE DATA INTERFACE WITH VIDEO MANAGEMENT AND RECORDING SYSTEM AND INTERCOM/PAGING SYSTEM TO ALLOW CONTROL AND MONITORING OF ALL SYSTEMS FROM TOUCH SCREEN CONTROL AND MANAGEMENT SYSTEM.
3. NEW ELECTRONIC SECURITY ADMINISTRATION AND FILE SERVERS, CONNECTED VIA KVM SWITCH TO RACK MOUNTED KEYBOARD, MOUSE AND MONITOR.
4. NEW TOUCH SCREEN CONTROL STATION WITH 27" LED MONITOR, CPU, MOUSE AND KEYBOARD.
5. 1-1" CONDUIT FOR CAT6 CABLE.
6. LIGHTING CONTROL PROCESSING PANEL BY DIV. 26 FOR LIGHTING CONTROL SYSTEM INTERFACE WITH ELECTRONIC CONTROL SYSTEM. REFER TO ELECTRICAL PLANS FOR EXACT LOCATION AND QUANTITIES. PROVIDE CAT6 CABLE AND CONDUIT FROM EACH PANEL LOCATION TO THE CLOSEST ELECTRONIC SECURITY EQUIPMENT ROOM.

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TY-601

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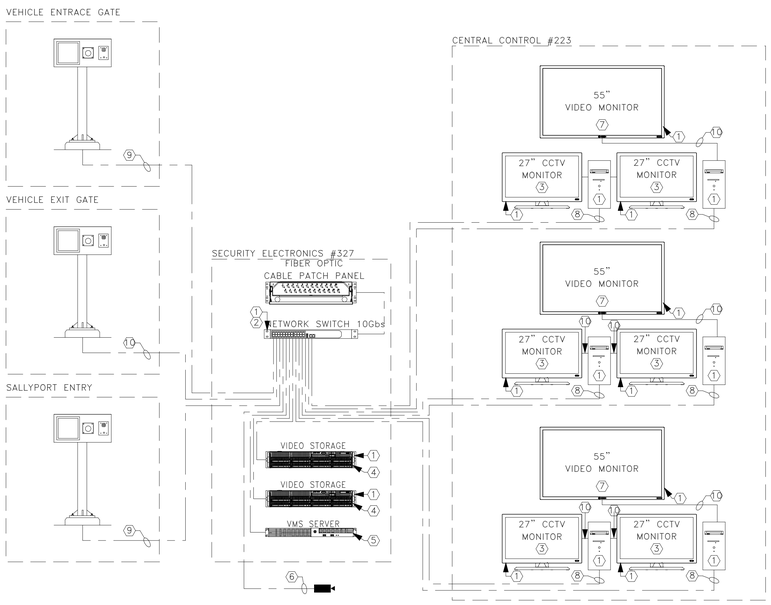


LEVEL 1

2 VIDEO MANAGEMENT SYSTEM DIAGRAM

SCALE NOT TO SCALE

LEGEND:

DATA CABLE/CAT 6

FIBER OPTIC CABLE

SYMBOL REPRESENTS ALL TYPES OF CAMERAS USED ON THIS PROJECT.

GENERAL NOTES:

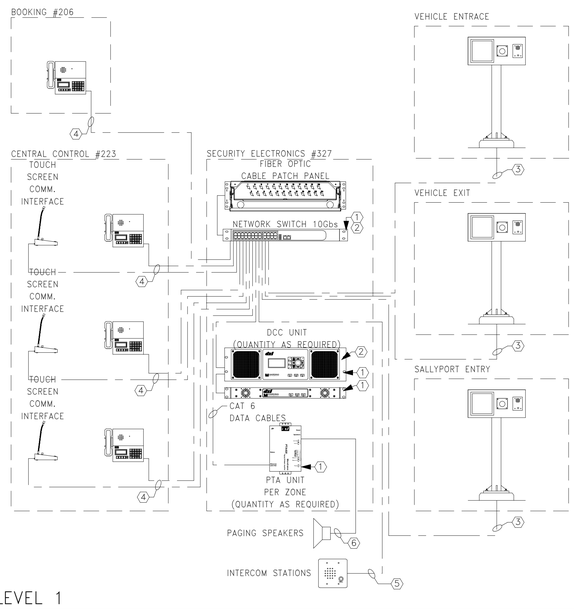
1. ALL CAMERAS, VIDEO WORKSTATIONS AND VIDEO SERVERS SHALL BE CONNECTED TO NETWORK SWITCHES VIA CAT6 CABLE. IF THE DISTANCE BETWEEN ANY VIDEO SYSTEM FIELD DEVICE AND/OR EQUIPMENT (E.G. CAMERA, VIDEO WORKSTATION, ETC) AND A NETWORK SWITCH EXCEEDS 300' USE FIBER OPTIC CABLE TO TRANSFER VIDEO DATA. PROVIDE CAT6 TO FIBER MEDIA CONVERTERS. PROVIDE POWER FOR MEDIA CONVERTERS.
2. ALL NEW IP CAMERAS SHALL BE POE.
3. REFER TO CAMERA SCHEDULE FOR THE EXACT CAMERA MOUNTING LOCATIONS AND TYPES.
4. FIBER OPTIC PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL FIBER OPTIC CABLES IN EQUIPMENT CABINETS/ENCLOSURES.
5. PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL DATA CABLES (CAT6) IN EQUIPMENT CABINETS/ENCLOSURES.
6. EXACT NUMBER OF NETWORK SWITCHES AND ELECTRONIC SECURITY HEAD-END EQUIPMENT SHALL BE DETERMINED BY NUMBER OF VIDEO MANAGEMENT SYSTEM FIELD DEVICES TERMINATED AT EACH LOCATION.
7. NEW VIDEO MANAGEMENT AND RECORDING SYSTEM SHALL BE PROVIDED WITH ALL REQUIRED HARDWARE AND SOFTWARE TO ALLOW SECURE, REMOTE MONITORING OF ALL CAMERAS (MOBILE DEVICES, ETC.).
8. ALL NETWORK SWITCHES FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV 28. ELECTRONIC SECURITY CONTRACTOR SHALL COORDINATE SWITCHES SETUP WITH THE OWNER (IP ADDRESSES SCHEME).
9. FIBER OPTIC BACKBONE CONNECTING ALL EQUIPMENT ROOMS WITH ELECTRONIC SECURITY SYSTEM EQUIPMENT SHALL BE PROVIDED BY DIV. 28 CONTRACTOR. BACKBONE MAY BE RUN IN A STAR CONFIGURATION FOR VIDEO SYSTEMS. COORDINATE WITH OWNER AND OTHER TRADES.
10. CAT6 CABLES FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV 28 CONTRACTOR.
11. CONDUITS FOR THE ELECTRONIC SECURITY SYSTEM EQUIPMENT SHALL BE PROVIDED BY DIV 26 CONTRACTOR.
12. UPS BACKUP POWER FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV 28.

NOTES

1. 120 VAC, UPS POWER.
2. PROVIDE INTERFACE WITH ELECTRONIC CONTROL (DOOR CONTROL), INTERCOM/PAGING AND ACCESS CONTROL SYSTEM FOR AUTOMATIC CAMERA CALL-UP AND RECORDING.
3. NEW VIDEO VIEWING/MONITORING STATION (27" LED MONITOR, CPU AND KEYBOARD). PROVIDE HDMI CABLE FOR CONNECTION BETWEEN VIDEO MONITOR AND CPU.
4. NEW ARRAY OF HARD DRIVES IN RAID 6 CONFIGURATION FOR VIDEO RECORDING STORAGE. PROVIDE QUANTITY AS REQUIRED TO MEET CONSTRUCTION DOCUMENTS REQUIREMENTS.
5. NEW VIDEO MANAGEMENT SYSTEM (VMS) SERVER. THE SERVER SHALL MANAGE ALL VIDEO SYSTEM DEVICES, STORAGE AND NETWORK TRAFFIC FOR THIS FACILITY.
6. 1-3/4" CONDUIT FOR CAT6 CABLE.
7. NEW VIDEO VIEWING/MONITORING STATION (55" 4K LED MONITOR AS NOTED). PROVIDE ALL VIDEO CABLES (HDMI) FOR CONNECTION BETWEEN VIDEO MONITORS AND WORKSTATION.
8. 1-1" CONDUIT FOR CAT6 CABLE.
9. 1-2" CONDUIT FOR FIBER OPTIC CABLE (4 STRANDS OF MULTIMODE FIBER).
10. 1-1" CONDUIT FOR HDMI CABLE.
11. PROVIDE HARDWARE AND SOFTWARE REQUIRED TO VIEW LIVE AND RECORDED VIDEO FROM THE OFFICE PC (PROVIDED BY THE OWNER). THIS IS TYPICAL FOR OFFICES #112 AND #114. PROVIDE ADDITIONAL NETWORK CARD TO OWNER PROVIDED OFFICE PC TO CONNECT TO THE SECURITY NETWORK. UPLOAD THE LATEST VERSION OF THE VMS.

Camera Schedule

Number	Lens	Resolution	Type	Mount	Analytics	Comments
C001	360°MS	20mp	Outdoor 360° Multisensor Dome Wall Arm	Pendant Corner Wall Arm	Yes	
C002	360°MS/PTZ	20MP/1080P	Outdoor 360° Multisensor with PTZ Dome	Parapet	Yes	
C003	3-9mm	1080p	Dual Pedestal with Card Reader, Camera, Intercom	Pedestal Mounted	Yes	
C004	360°MS	20mp	Outdoor 360° Multisensor Dome Wall Arm	Pendant Corner Wall Arm	Yes	
C005	360°MS	20mp	Outdoor 360° Multisensor Dome Wall Arm	Pendant Corner Wall Arm	Yes	
C006	3-10mm	1080p	Dual Pedestal with Card Reader, Camera, Intercom	Pedestal Mounted	Yes	
C007	360°MS	20mp	Outdoor 360° Multisensor Dome Wall Arm	Pendant Corner Wall Arm	Yes	
C008	3-10mm	1080p	Outdoor Wall Done	Wall	No	
C009	360°MS/PTZ	20MP/1080P	Outdoor 360° Multisensor with PTZ Dome	Parapet	Yes	
C010	3-10mm	1080p	Dual Pedestal with Card Reader, Camera, Intercom	Pedestal Mounted	Yes	
C101	360°	12mp	Indoor Recessed Dome	Ceiling	Yes	
C102	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C103	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C104	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C105	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C106	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C107	3-10mm	5mp	Indoor Wall Dome	Wall Mounted	Yes	
C108	180°MS	12mp	Outdoor Wall 180° Multisensor Dome	Wall Mounted	Yes	
C109	3-10mm	5mp	Indoor Wall Dome	Wall Mounted	Yes	
C110	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C111	360°	12mp	Indoor Recessed Dome	Ceiling	Yes	
C112	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C113	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C114	3-10mm	5mp	Indoor Recessed Dome	Ceiling Corner	Yes	
C115	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C116	3-10mm	1080p	Indoor Wall Dome	Wall	Yes	
C117	3-10mm	5mp	Indoor Recessed Dome	Ceiling Corner	Yes	
C118	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	
C119	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	
C120	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	
C121	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	
C122	360°MS	20mp	Indoor Recessed 360° Multisensor Dome	Ceiling	Yes	
C123	3-10mm	5mp	Indoor Recessed Dome	Ceiling Corner	Yes	
C124	3-10mm	5mp	Indoor Recessed Dome	Ceiling Corner	Yes	
C125	360°MS	20mp	Indoor Recessed 360° Multisensor Dome	Ceiling	Yes	
C126	3-10mm	5mp	Indoor Recessed Dome	Ceiling Corner	Yes	
C127	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C128	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C129	3-10mm	1080p	Indoor Recessed Dome	Ceiling	Yes	
C130	360°MS	20mp	Indoor Recessed 360° Multisensor Dome	Ceiling	Yes	
C131	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	
C132	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	
C133	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	
C134	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	
C135	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling	Yes	
C136	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C137	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling	Yes	
C138	3-10mm	5mp	Indoor Recessed Dome	Ceiling Corner	Yes	
C139	360°	12mp	Indoor Recessed Dome	Ceiling	Yes	
C140	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C141	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C142	3-10mm	5mp	Indoor Recessed Dome	Ceiling	Yes	
C143	360°MS	20mp	Indoor Recessed 360° Multisensor Dome	Ceiling	Yes	
C144	360°MS	20mp	Indoor Recessed 360° Multisensor Dome	Ceiling	Yes	
C145	3-10mm	5mp	Indoor Recessed Dome	Ceiling Corner	Yes	
C146	3-10mm	5mp	Indoor Recessed Dome	Ceiling Corner	Yes	
C147	360°MS	20mp	Indoor Recessed 360° Multisensor Dome	Ceiling	Yes	
C148	180°MS	12mp	Outdoor Wall 180° Multisensor Dome	Wall Mounted	Yes	
C149	3-10mm	5mp	Indoor Wall Dome	Wall	Yes	
C150	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	Future Camera
C151	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	Future Camera
C152	360°MS	20mp	Indoor Recessed 360° Multisensor Dome	Ceiling	Yes	
C153	3-10mm	5mp	Indoor Recessed Dome	Ceiling	Yes	
C154	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C155	3-10mm	1080p	Indoor Recessed Dome	Ceiling Corner	Yes	
C156	3-10mm	5mp	Indoor Recessed Dome	Ceiling	Yes	
C157	360°MS	20mp	Indoor Recessed 360° Multisensor Dome	Ceiling	Yes	
C158	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	Future Camera
C159	3-10mm	3mp	Corner Camera Vandal Proof	Ceiling Corner Vandal Mount	Yes	Future Camera



LEVEL 1

1 INTERCOM DIAGRAM

SCALE NOT TO SCALE

LEGEND:

CAMERA POWER SUPPLY

DATA CABLE/CAT 6

FIBER OPTIC CABLE

COAX CABLE

GENERAL NOTES:

1. FIBER OPTIC PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL FIBER OPTIC CABLES IN EQUIPMENT CABINETS/ENCLOSURES.
2. PATCH PANELS SHALL BE USED TO TERMINATE AND DISTRIBUTE ALL DATA CABLES (CAT6) IN EQUIPMENT CABINETS/ENCLOSURES.
3. EXACT NUMBER OF NETWORK SWITCHES AND ELECTRONIC SECURITY HEAD-END EQUIPMENT SHALL BE DETERMINED BY NUMBER OF INTERCOM AND PAGING SYSTEM FIELD DEVICES TERMINATED AT EACH LOCATION.
5. ALL INTERCOM & PAGING SYSTEM FIELD DEVICES AND EQUIPMENT SHALL BE CONNECTED TO NETWORK SWITCHES VIA CAT6 CABLE. IF THE DISTANCE BETWEEN ANY INTERCOM & PAGING SYSTEM FIELD DEVICES AND EQUIPMENT AND A NETWORK SWITCH EXCEEDS 300' USE FIBER OPTIC CABLE TO TRANSFER VIDEO DATA. PROVIDE CAT6 TO FIBER MEDIA CONVERTERS. PROVIDE POWER FOR MEDIA CONVERTERS.
6. CAT6 CABLES FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV 28 CONTRACTOR.
7. CONDUITS FOR THE ELECTRONIC SECURITY SYSTEM EQUIPMENT SHALL BE PROVIDED BY DIV 26 CONTRACTOR.
8. UPS BACKUP POWER FOR THE ELECTRONIC SECURITY SYSTEM SHALL BE PROVIDED BY DIV 28.

NOTES:

1. 120VAC UPS POWER.
2. PROVIDE INTERFACE WITH VIDEO MANAGEMENT AND RECORDING SYSTEM FOR CAMERA CALL-UP FUNCTION. PROVIDE INTERFACE WITH ELECTRONIC SECURITY CONTROL SYSTEM FOR CONTROL AND MONITORING OF ALL INTERCOM AND PAGING FUNCTIONS FROM THE NEW TOUCH SCREEN CONTROL AND MANAGEMENT SYSTEM.
3. 1-2" CONDUIT FOR FIBER OPTIC CABLE (4 STRANDS OF MULTIMODE FIBER).
4. 1-1" CONDUIT FOR CAT6 CABLE.
5. 1-3/4" CONDUIT FOR CAT6 CABLE.
6. 1-3/4" CONDUIT FOR SINGLE SHIELDED PAIR CABLE.

Draft

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REGISTERED PROFESSIONAL ENGINEER
MICHAEL V SMITH
M 38164
EXP 12/31/24
MECHANICAL
STATE OF CALIFORNIA
8/15/23

PROJECT

MONO COUNTY NEW JAIL

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BRIDGEPORT, CA 95317

CLIENT

MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE

DIAGRAMS

SHEET

TY-602

V1

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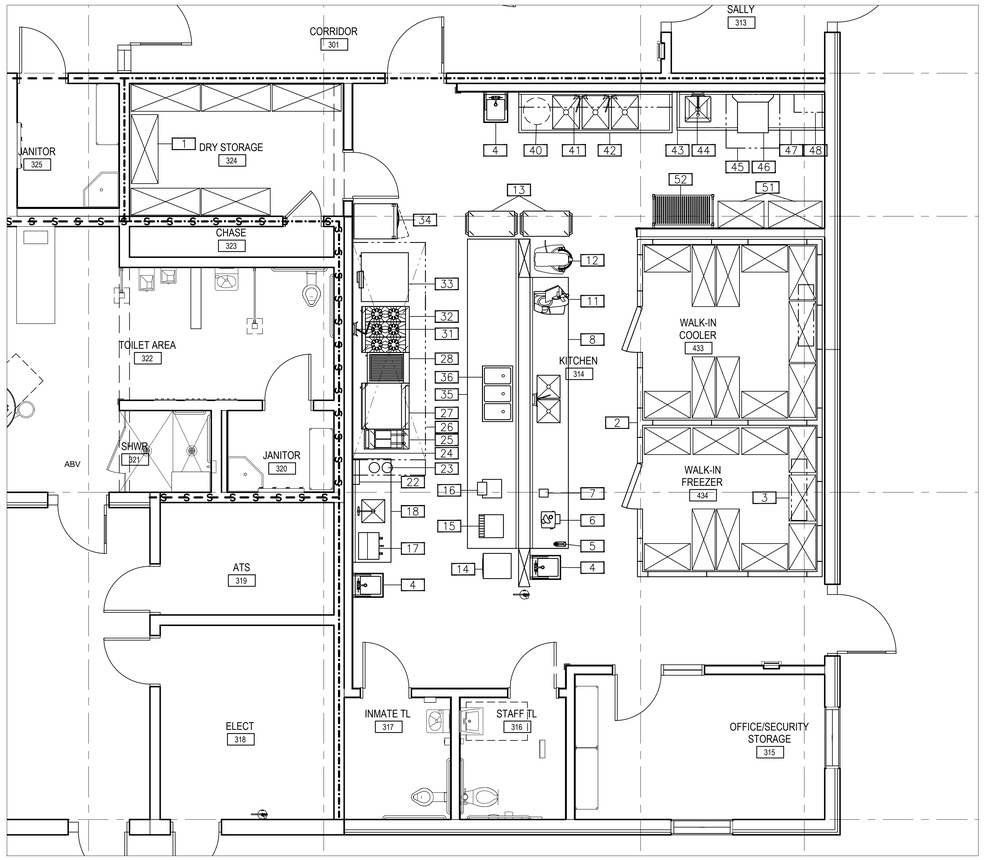


FOODSERVICE FLOOR PLAN

SCALE: 1/4" = 1'-0"

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
1	LOT	SHELVING	NEW AGE	HD SERIES 72-FIVE TIER	
2	1	WALK-IN COOLER/FREEZER	DURACOLD	8-8 CF MODULAR 4	
3	LOT	SHELVING	NEW AGE	HD SERIES 68-FOUR TIER	
4	3	HAND SINK/SIDE SPLASH	EAGLE GROUP	HSA-10-FTWS-LRS	
5	1	CAN OPENER	EDLUND	EDV-1NB	
6	1	FOOD PROCESSOR	ROBOT COUPE	R2N	
7	1	BLENDER	VITAMIX	VITA-PREP 1002	
8	1	WORK TABLE WITH SINKS	CUSTOM FABRICATED	SEE ELEVATIONS	
9		NOT USED			
10		NOT USED			
11	1	AUTOMATIC SLICER	HOBART	HS7N-1	
12	1	30 QUART MIXER	HOBART	HL300C	
13	LOT	TRAY DELIVERY CART	PROVIDED BY OWNER	NOT PART OF FSEC CONTRACT	NIC
14	1	ICE MACHINE/BIN	SCOTSMAN	UN1215A-1	
15	1	JUICE DISPENSER	BUNN	37300 JDF-4S	
16	1	CONVEYOR TOASTER	HATCO	TQ400	
17	1	COFFEE BREWER	FETCO	CBS-52H	
18	1	WORK TABLE WITH SINK	CUSTOM FABRICATED	SEE ELEVATION DETAILS	
19		NOT USED			
20		NOT USED			
21		NOT USED			
22	1	FRENCH FRY CUTTER	PROVIDED BY OWNER	NOT PART OF FSEC CONTRACT	NIC
23	1	FIRE SUPPRESSION SYSTEM	STREIVOR AIR SYSTEMS	PYRO-CHEM KITCHEN KNIGHT II	
24	1	STAINLESS STEEL WALL FLASHING	CUSTOM FABRICATED	SEE ELEVATIONS	
25	1	FRYER / FILTER	PITCO	SE14FD	
26	1	EXHAUST HOOD (TYPE-I)	STREIVOR AIR SYSTEMS	SAWCBD1706024	
27	1	GRIDDLE/OVEN	JADE RANGE	JTRH-36G-36	
28	1	BROILER	JADE RANGE	JB-24-F	
29		NOT USED			
30		NOT USED			
31	1	FILL FAUCET	T & S	B-0597-CR	
32	1	OPEN BURNER RANGE/OVEN	JADE RANGE	JTRH-6-36	

EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER	NOTES
33	1	2-DECK CONVECTION OVEN	JADE RANGE	JCO-240B	
34	1	REACH-IN REFRIGERATOR	TRUE	STA1R-2HS-HC	
35	1	TRAY DISH UP COUNTER	CUSTOM FABRICATED	SEE ELEVATIONS	
36	1	DROP IN HOT/COLD WELLS	HATCO	HCWBI-3DA	
37		NOT USED			
38		NOT USED			
39		NOT USED			
40	LOT	TRASH CONTAINER	PROVIDED BY OWNER	NOT IN FSEC CONTRACT	
41	1	WALL SHELF / UTENSIL RACK	CUSTOM FABRICATED	SEE ELEVATIONS	
42	1	POT SINK	CUSTOM FABRICATED	SEE ELEVATIONS	
43	1	SOILED DISHTABLE	CUSTOM FABRICATED	SEE ELEVATIONS	
44	1	PRE-RINSE	T & S	B-0133-B	
45	1	CONDENSATE HOOD	STREIVOR AIR SYSTEMS	DMH 424220.5	
46	1	DISHMACHINE (HIGH CHAMBER)	JACKSON	TEMPSTAR HH-E	
47	1	CLEAN DISHTABLE	CUSTOM FABRICATED	SEE ELEVATIONS	
48	1	DISH RACK SHELF	CUSTOM FABRICATED	SEE ELEVATIONS	
49		NOT USED			
50		NOT USED			
51	2	MOBILE DRY RACKS	NEW AGE	HD SERIES 66-FOUR TIER MOBILE	
52	1	MOBILE POT RACK/TRAY RACK	SAMMONS EQUIPMENT	9040-HD-FR-176-1315	
53		NOT USED			
54		NOT USED			
55	1	REFRIGERATION SYSTEM	COOLTEC	REMOTE AIR COOLED (ROOF)	

ABBREVIATIONS:

FSEC	FOODSERVICE EQUIPMENT CONTRACTOR	ALT	ADD ALTERNATE
S/S	STAINLESS STEEL	RR	REMOTE REFRIGERATION SYSTEMS FOR ITEM 50
U/C	UNDER COUNTER		
S&T	SOAP AND TOWEL		
NIC	NOT IN CONTRACT		

SCHEDULE / DRAWING NOTES:

NOTES:

HEALTH DEPARTMENT REQUIREMENTS:

A. ALL EQUIPMENT, MANUFACTURED OR CUSTOM FABRICATED, TO HAVE NSF, ETL SANITATION OR UL SANITATION APPROVALS.

B. INSTALLATION TO MEET CALIFORNIA RETAIL FOOD CODE (CRFC) LATEST EDITION.

C. ALL EXPOSED PLUMBING AND GAS LINES MUST BE MOUNTED OR ENCLOSED SO AS TO FACILITATE CLEANING. AN EFFORT SHOULD BE MADE TO ENCLOSE ALL PLUMBING LINES WITHIN WALLS UNLESS OTHERWISE APPROVED.

D. ALL EQUIPMENT WHICH GENERATES CONDENSATE AND LIQUID WASTES FROM STEAM TABLES, ICE MACHINES AND BINS, UTENSIL WASH SINKS, FOOD PREPARATION SINKS, DISPLAY CASES, ETC. SHALL BE DRAINED BY MEANS OF INDIRECT WASTE PIPES INTO FLOOR SINK OR OTHER APPROVED INDIRECT WASTE RECEPTOR. FLOOR DRAINS ARE NOT TO BE USED IN LIEU OF FLOOR SINKS. ALL WASTE LINES MUST BE HARD PIPED FROM POINT OF CONNECTIONS.

E. ALL FLOOR SINKS SHALL BE AT LEAST HALF EXPOSED OR OTHERWISE READILY ACCESSIBLE FOR INSPECTION AND CLEANING. FLOOR SINK SHOULD NOT POSE A TRIPPING HAZARD (MOUNT ALL FLOOR SINKS FLUSH WITH FLOOR)

F. ALL EXPOSED ELECTRICAL LINES SHALL BE ENCLOSED WITHIN SMOOTH, RIGID CONDUIT AND BE MOUNTED OR ENCLOSED SO AS TO FACILITATE CLEANING. FLEX CONDUIT IS ONLY PERMITTED IF ENCLOSED WITHIN WALLS.

G. SUFFICIENT NATURAL OR ARTIFICIAL LIGHTING REQUIRED: FIFTY (50) FOOT-CANDLES IN FOOD PREPARATION, UTENSIL WASH, STORAGE, RESTROOMS.

H. SHATTER PROOF SHIELDS ON LIGHTS REQUIRED ABOVE FOOD PREPARATION, OPEN FOOD STORAGE, UTENSIL-CLEANING AREAS AND HOODS.

I. AN APPROVED FLOORING MATERIAL. FOUR INCH (MINIMUM) HIGH CONTINUOUSLY COVED BASE. (3/8" MIN. COVE AT WALL/FLOOR/EQUIPMENT JUNCTURE).

RECOMMENDED ARCHITECTURAL FINISHES:

A. FLOORS:
SEAMLESS WELDED SHEET VINYL, POURED EPOXY OR QUARRY TILE REQUIRED IN ALL KITCHEN AREAS, STORAGE, JANITOR ROOMS AND SHARED RESTROOMS. SEE BUILDING CONDITIONS PLAN FOR COLD STORAGE ROOM REQUIREMENTS.

B. WALLS:
BACK OF HOUSE: FRP FROM TOP OF COVED FLOORING BASE TO FINISHED CEILING.

STAINLESS STEEL PROVIDED BY FOODSERVICE BEHIND COOKING EQUIPMENT.

FRONT OF HOUSE: PAINT OR CERAMIC TILE.

C. CEILINGS:
T-GRID WITH VILYLROCK OR SIMILAR LAY IN PANELS. PAINTED HARD-LID DYP CEILING.

RECOMMENDED CONSTRUCTION:

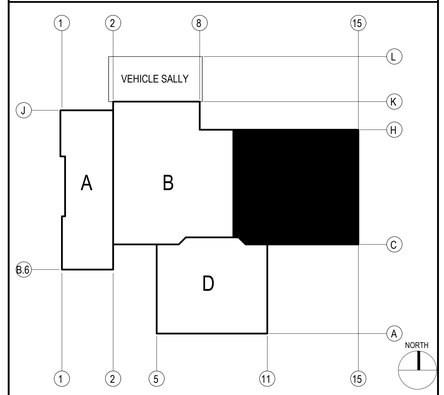
A. WALLS BEHIND EXHAUST HOODS:
METAL STUD WITH 5/8" TYPE-X SHEET ROCK. EXTEND 18" BEYOND BACK AND SIDES OF HOOD.

B. CEILINGS:
MINIMUM CEILING HEIGHT 102-1/2" AFF. RECOMMEND 108" AFF.

C. COLD STORAGE ROOMS:
4" FINISHED FLOOR DEPRESSION; WHERE REQUIRED; AS SHOWN ON BUILDING CONDITIONS PLAN.

Draft

KEY PLAN



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SEAL

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RICHARD J. DAVIS
C-27266
REN. 06-30-25
STATE OF CALIFORNIA

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MONO COUNTY NEW JAIL

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MONO COUNTY PUBLIC WORKS DEPARTMENT
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ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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CLIENT PROJECT NO:
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TITLE
FOODSERVICE EQUIPMENT PLAN

SHEET
FS 1.11

V1

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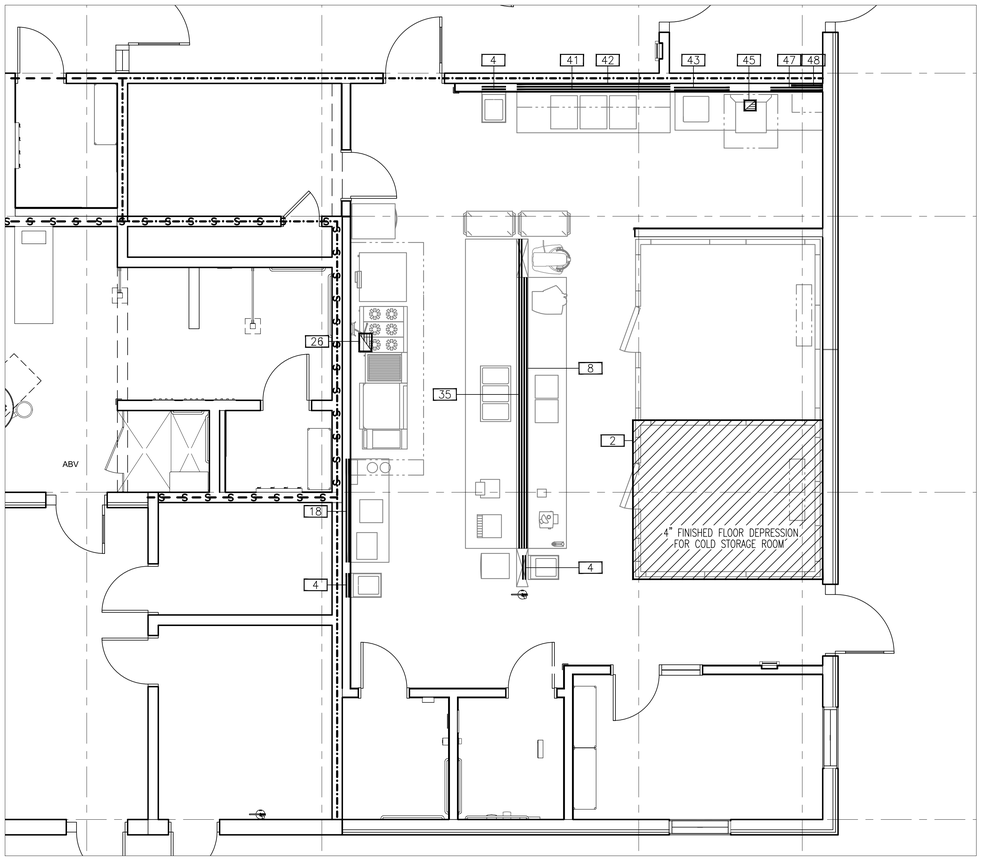


FOODSERVICE FLOOR PLAN

SCALE: 1/4" = 1'-0"

VENTILATION / BUILDING CONDITIONS / AIR

ITEM	QTY	DESCRIPTION	VENTILATION EXHAUST			VENTILATION SUPPLY			WALL BACKING		COMPRESSED AIR		
			SIZE	CFM	WGSP	SIZE	CFM	WGSP	HT	OC	SUP	CFM	HT
1	LOT	SHELVING											
2	1	WALK-IN COOLER/FREEZER											
3	LOT	SHELVING											
4	3	HAND SINK/SIDE SPLASH							12"	38"			
5	1	CAN OPENER											
6	1	FOOD PROCESSOR											
7	1	BLENDER											
8	1	WORK TABLE WITH SINKS							42"	6"			
9		NOT USED											
10		NOT USED											
11	1	AUTOMATIC SLICER											
12	1	30 QUART MIXER											
13	LOT	TRAY DELIVERY CART											
14	1	ICE MACHINE/BIN											
15	1	JUICE DISPENSER											
16	1	CONVEYOR TOASTER											
17	1	COFFEE BREWER											
18	1	WORK TABLE WITH SINK							6"	42"			
19		NOT USED											
20		NOT USED											
21		NOT USED											
22	1	FRENCH FRY CUTTER											
23	1	FIRE SUPPRESSION SYSTEM											
24	1	STAINLESS STEEL WALL FLASHING											
25	1	FRYER / FILTER											
26	1	EXHAUST HOOD (TYPE-I)	(2)14"x10"	2862	.77								
27	1	GRIDDLE/OVEN											
28	1	BROILER											
29		NOT USED											
30		NOT USED											
31	1	FILL FAUCET											
32	1	OPEN BURNER RANGE/OVEN											

VENTILATION / BUILDING CONDITIONS / AIR

ITEM	QTY	DESCRIPTION	VENTILATION EXHAUST			VENTILATION SUPPLY			WALL BACKING		COMPRESSED AIR		
			SIZE	CFM	WGSP	SIZE	CFM	WGSP	HT	OC	SUP	CFM	HT
33	1	2-DECK CONVECTION OVEN											
34	1	REACH-IN REFRIGERATOR											
35	1	TRAY DISH UP COUNTER							6"	42"			
36	1	DROP IN HOT/COLD WELLS											
37		NOT USED											
38		NOT USED											
39		NOT USED											
40	LOT	TRASH CONTAINER											
41	1	WALL SHELF / UTENSIL RACK							12"	63"			
42	1	POT SINK							6"	46"			
43	1	SOILED DISHTABLE							6"	46"			
44	1	PRE-RINSE											
45	1	CONDENSATE HOOD	9"X8"	700	.50								
46	1	DISHMACHINE (HIGH CHAMBER)											
47	1	CLEAN DISHTABLE							6"	46"			
48	1	DISH RACK SHELF							12"	63"			
49		NOT USED											
50		NOT USED											
51	2	MOBILE DRY RACKS											
52	1	MOBILE POT RACK/TRAY RACK											
53		NOT USED											
54		NOT USED											
55	1	REFRIGERATION SYSTEM											

ABBREVIATIONS:

CFM	CUBIC FEET/MINUTE	STUB	UTILITY UP FROM FLOOR
WGSP	WATER GAUGE STATIC PRESSURE	SUP	SUPPLY
HT	HEIGHT		
OC	ON CENTER		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION AS SHOWN ON DRAWING

NOTES:

GENERAL CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FOODSERVICE EQUIPMENT SECTION.

B. WALLS, FLOORS AND CEILINGS IN FOODSERVICE AND WASHING AREAS OR ANY OTHER LOCATION WHERE FOOD OR BEVERAGES ARE PREPARED, SHALL BE SMOOTH, EASILY CLEANABLE, NON-ABSORBENT AND DURABLE. WALLS AND CEILINGS SHALL BE "LIGHT-IN COLOR".

C. OPENINGS/ACCESS FOR ALL FOODSERVICE EQUIPMENT.

D. FLOOR DEPRESSIONS FOR COLD STORAGE ROOMS.

E. BLOCK OUTS IN FLOOR FOR FLUSH MOUNT FLOOR TROUGHS.

F. m
G. CONDUIT FOR REFRIGERATION LINES.

H. COVED FINISHED FLOOR MATERIALS AT ALL VERTICAL SURFACES.

I. SLEEVES/ACCESS FOR REFRIGERATION PIPING.

J. ROOF CURB WITH GALVANIZED SHEET METAL CAP FOR REMOTE REFRIGERATION SYSTEM.

K. FIRE RATED MATERIALS AND OR INSULATION AS REQUIRED FOR EXHAUST DUCTS, VENT STACKS, HEAT PRODUCING EQUIPMENT, ROOF/WALL PENETRATIONS PER LOCAL CODES.

L. FILL EXCESS FLOOR DEPRESSIONS AROUND RECESSED COLD STORAGE ROOM COMPARTMENTS WITH GROUT, FINISH FLOOR MATERIAL AND COVED BASE AFTER INSTALLATION.

M. POSITIVE SLOPE TO FLOOR SINKS, FLOOR DRAINS AND FLOOR TROUGHS.

MECHANICAL CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FOODSERVICE EQUIPMENT SECTION.

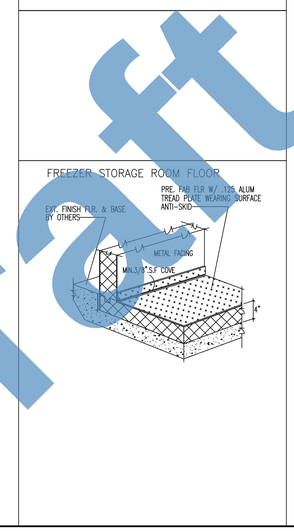
B. EXHAUST SYSTEMS AND CONTROLS.

C. FINAL DUCT CONNECTIONS TO EXHAUST HOODS.

D. MAKE-UP AIR DIFFUSERS: DO NOT PLACE ANY DIFFUSERS WITHIN 10'-0" OF EXHAUST HOODS AND DO NOT HAVE ANY MAKE-UP AIR DIRECTED TOWARD EXHAUST HOODS.

SYMBOLS:

- EXHAUST DUCT CONNECTION
- SUPPLY DUCT CONNECTION
- FLOOR DEPRESSION
- SOLID CONCRETE CURB
- ROOF CURB WITH GA. CAP



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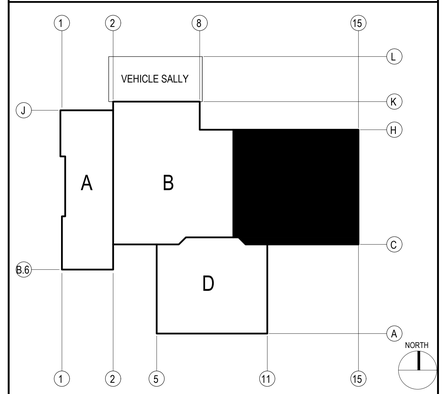
KEY PLAN



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SEAL

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RICHARD J. DAVIS
C-27266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
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P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE
FOODSERVICE BUILDING CONDITIONS & VENTILATION PLAN

SHEET
FS 1.12

V1

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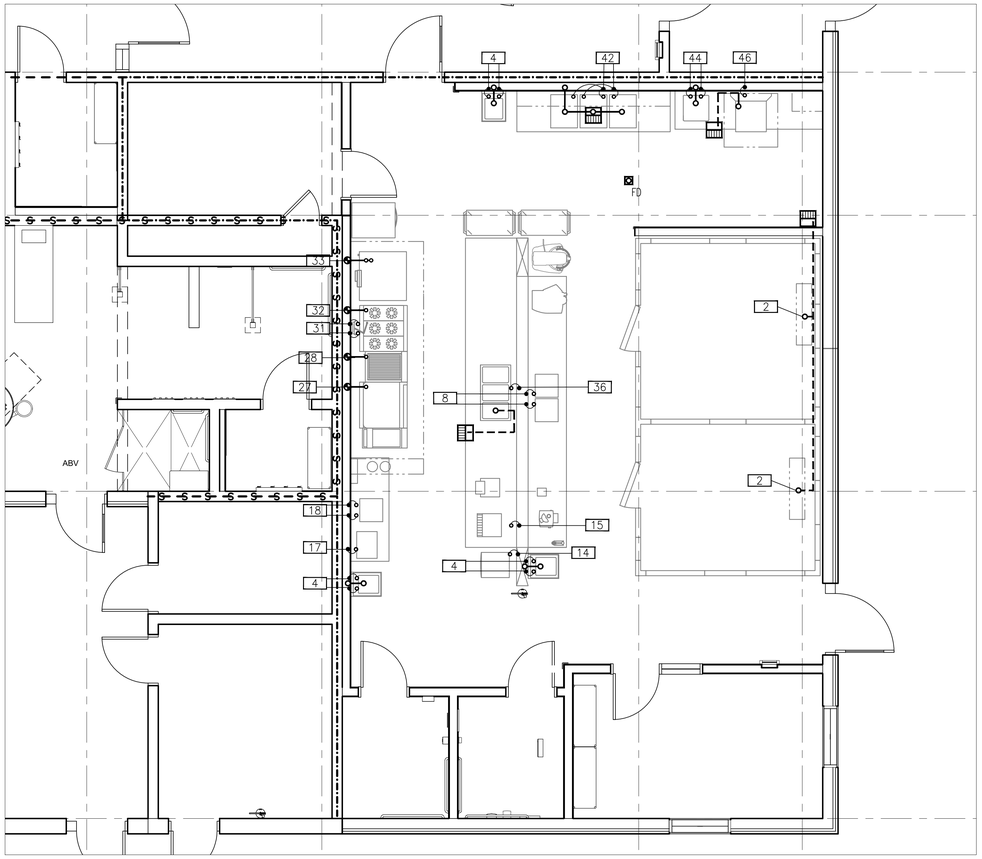


FOODSERVICE FLOOR PLAN

SCALE: 1/4" = 1'-0"

PLUMBING ROUGH-IN

ITEM	QTY	DESCRIPTION	WATER CW	WATER HW	WATER HT	WATER GPH	WASTE IND	WASTE DIR	WASTE HT	GAS SUP	GAS MBH	GAS HT	CHILLED WATER SUP	CHILLED WATER RET	CHILLED WATER HT	CHILLED WATER GPM	STEAM SUP	STEAM RET	STEAM HT	LB/HR
1	LOT	SHELVING																		
2	1	WALK-IN COOLER/FREEZER					1"													
3	LOT	SHELVING																		
4	3	HAND SINK/SIDE SPLASH	1/2"	1/2"	18"	5		1-1/2"	21"											
5	1	CAN OPENER																		
6	1	FOOD PROCESSOR																		
7	1	BLENDER																		
8	1	WORK TABLE WITH SINKS	1/2"	1/2"	SD	20	1-1/2"													
9		NOT USED																		
10		NOT USED																		
11	1	AUTOMATIC SLICER																		
12	1	30 QUART MIXER																		
13	LOT	TRAY DELIVERY CART																		
14	1	ICE MACHINE/BIN	1/2"		30"		1"													
15	1	JUICE DISPENSER	1/2"		48"															
16	1	CONVEYOR TOASTER																		
17	1	COFFEE BREWER	1/2"		48"															
18	1	WORK TABLE WITH SINK	1/2"	1/2"	18"	10	1-1/2"													
19		NOT USED																		
20		NOT USED																		
21		NOT USED																		
22	1	FRENCH FRY CUTTER																		
23	1	FIRE SUPPRESSION SYSTEM																		
24	1	STAINLESS STEEL WALL FLASHING																		
25	1	FRYER / FILTER																		
26	1	EXHAUST HOOD (TYPE-I)																		
27	1	GRIDDLE/OVEN								1"	140	24"								
28	1	BROILER								1"	60	24"								
29		NOT USED																		
30		NOT USED																		
31	1	FILL FAUCET	1/2"	1/2"	36"	5														
32	1	OPEN BURNER RANGE/OVEN								1"	245	SD								

PLUMBING ROUGH-IN

ITEM	QTY	DESCRIPTION	WATER CW	WATER HW	WATER HT	WATER GPH	WASTE IND	WASTE DIR	WASTE HT	GAS SUP	GAS MBH	GAS HT	CHILLED WATER SUP	CHILLED WATER RET	CHILLED WATER HT	CHILLED WATER GPM	STEAM SUP	STEAM RET	STEAM HT	LB/HR
33	1	2-DECK CONVECTION OVEN								1"	110	54"								
34	1	REACH-IN REFRIGERATOR																		
35	1	TRAY DISH UP COUNTER																		
36	1	DROP IN HOT/COLD WELLS		3/4"	18"			1"												
37		NOT USED																		
38		NOT USED																		
39		NOT USED																		
40	LOT	TRASH CONTAINER																		
41	1	WALL SHELF / UTENSIL RACK																		
42	1	POT SINK	1/2"	1/2"	15"	45		3"	12"											
43	1	SOILED DISHTABLE																		
44	1	PRE-RINSE	1/2"	1/2"	18"	10														
45	1	CONDENSATE HOOD																		
46	1	DISHMACHINE (HIGH CHAMBER)	1/2"	3/4"	18"	10	1-1/2"													
47	1	CLEAN DISHTABLE																		
48	1	DISH RACK SHELF																		
49		NOT USED																		
50		NOT USED																		
51	2	MOBILE DRY RACKS																		
52	1	MOBILE POT RACK/TRAY RACK																		
53		NOT USED																		
54		NOT USED																		
55	1	REFRIGERATION SYSTEM																		

ABBREVIATIONS:

CW	COLD WATER	MBH	BRITISH THERMAL UNIT x 1000	HT	HEIGHT
HW	HOT WATER	SUP	SUPPLY	SD	STUB DOWN FROM UTILITY WALL
GPH	GALLONS PER HOUR (HOT WATER)	RET	RETURN	FA	FROM ABOVE
IND	INDIRECT WASTE (AIR GAP)	GPM	GALLONS PER MINUTE	STUB	UTILITY UP FROM FLOOR
DIR	DIRECT WASTE	BHP	BOILER HORSE POWER		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION AS SHOWN ON DRAWING

REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN INFORMATION

NOTES:

PLUMBING CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FOODSERVICE EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTIONS TO ALL FOODSERVICE EQUIPMENT AS INDICATED ON DRAWINGS AND IN PLUMBING ROUGH-IN SCHEDULE, INCLUDING ALL MATERIALS SUCH AS STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, PIPING, TUBING AND SHUT OFF'S AS REQUIRED.

C. MINIMUM 120 DEGREE HOT WATER WITH THE EXCEPTION OF HAND WASH SINKS. 140 DEGREE WATER BEING BROUGHT OVER FROM LAUNDRY TO DISHMACHINE

D. PRESSURE REDUCING VALVE TO 20 PSI FOR DISHWASHERS/ BOOSTER HEATERS.

E. ALL WASTE LINES AS NOTED.

F. MINIMUM DIAMETER OF LINE AS INDICATED ON SCHEDULE REGARDLESS OF CONNECTION SIZE.

G. ALL DRAINS SLOPED DOWNWARD WITH ADEQUATE CLEAN-OUT PROVISIONS.

H. MAINTAIN DRAINS AS HIGH AS POSSIBLE ABOVE FLOOR.

I. ALL EXPOSED DRAIN LINES TO BE FINISHED IN STAINLESS STEEL PAINT (SEYMOUR 16-054).

J. INSULATION ON ALL HOT WATER AND CONDENSATE LINES.

K. FLOOR SINKS/FLOOR DRAINS. (SET FLUSH WITH FINISHED FLOOR).

L. ALL VENT PIPES ARE TO BE CONCEALED IN WALLS, COLUMNS OR CHASES, USE LOOP-VENTS FOR ISLAND FIXTURES.

M. INTERCONNECTION BETWEEN SCRAP COLLECTOR AND SOILED DISHTABLE TROUGH.

N. INTERCONNECTION BETWEEN ROUGH-IN AND HOSE REEL/VACUUM BREAKER.

O. INTERCONNECTION BETWEEN VENTILATOR AND CONTROL PANEL.

P. HEAT TAPE FOR FREEZER COMPARTMENT INDIRECT WASTE LINE.

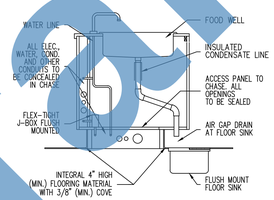
Q. GREASE TRAPS/INTERCEPTORS (LOCATED OUTSIDE OF KITCHEN AREA) AS SPECIFIED UNDER PLUMBING SECTION.

R. INSTALLATION OF FIRE PROTECTION SYSTEM GAS SHUT-OFF VALVE (PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR).

SYMBOLS:

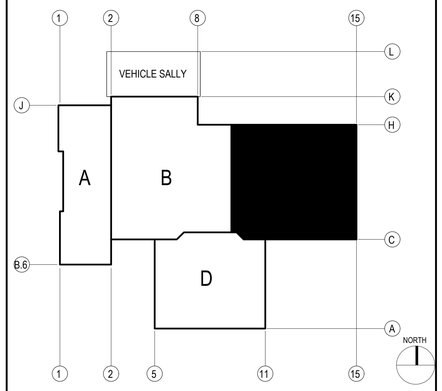
- HOT OR COLD WATER ROUGH-IN/CONNECTION
- HOT AND COLD WATER ROUGH-IN/CONNECTION
- HOT AND COLD WATER ROUGH-IN/ CONNECTION WITH BRANCH CONNECTION
- GAS SUPPLY ROUGH-IN/CONNECTION
- DIRECT WASTE DRAIN ROUGH-IN/CONNECTION
- INDIRECT WASTE DRAIN TO FLOOR SINK
- FLOOR SINK WASTE CONNECTION SHOWN ON PLAN
- FLOOR DRAIN 2" WASTE WITH TRAP PRIMER

HEALTH DEPT. COUNTER CONSTRUCTION



TYPICAL HEALTH DEPARTMENT REQUIREMENTS:
DO NOT RUN CONDUIT, PIPES, ETC. ON HORIZONTAL SURFACES IN CABINETS. INSTALL ALL LINES VERTICAL. STUD ALL LINES AT FIXTURE

KEY PLAN



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LICENSED ARCHITECT MICHAEL J. DANIEL 27266 REN. 06-30-25 STATE OF CALIFORNIA

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P.O.BOX 457, BRIDGEPORT, CA 93517

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MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

FOODSERVICE
PLUMBING
ROUGH-IN PLAN

SHEET

FS 1.13

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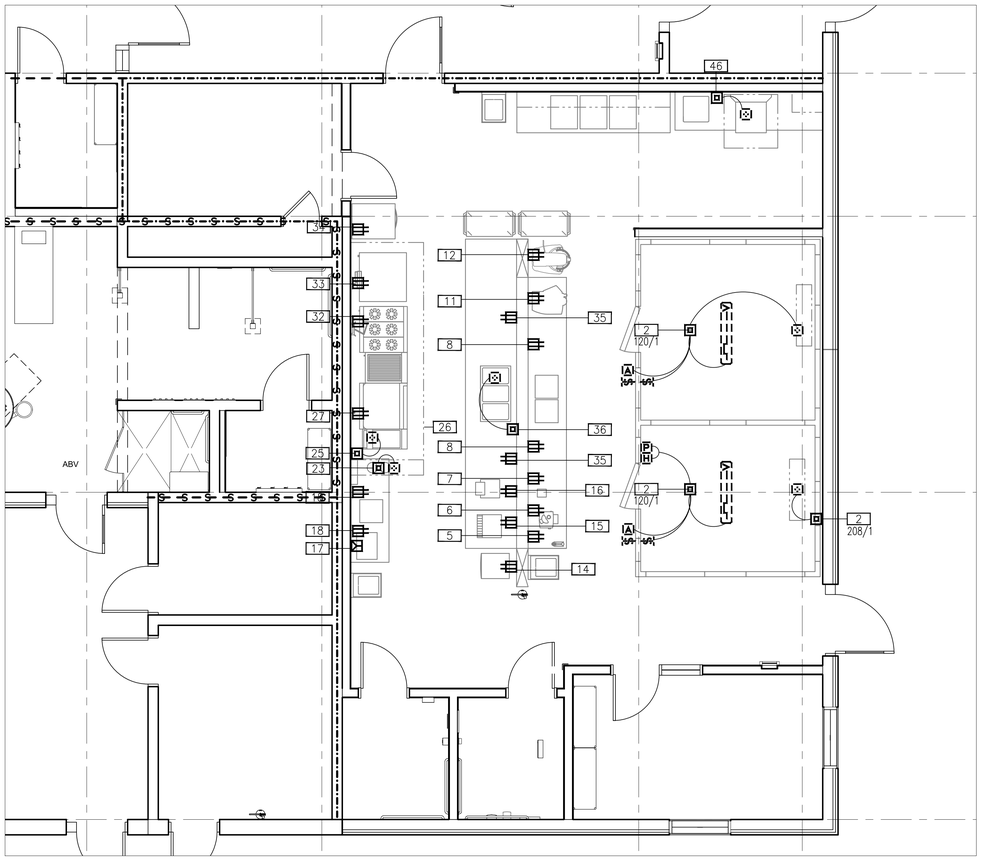


FOODSERVICE FLOOR PLAN

SCALE: 1/4" = 1'-0"

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
1	LOT	SHELVING										
2	1	WALK-IN COOLER/FREEZER	20A CKT			18.7 AMP			FA			*
3	LOT	SHELVING										
4	3	HAND SINK/SIDE SPLASH										
5	1	CAN OPENER										
6	1	FOOD PROCESSOR	7 AMP						46"		*	
7	1	BLENDER	11.5 AMP						46"		*	
8	1	WORK TABLE WITH SINKS	4 AMP						46"		*	
9		NOT USED										
10		NOT USED										
11	1	AUTOMATIC SLICER	5.6 AMP						46"		*	
12	1	30 QUART MIXER	9.5 AMP						46"	*	*	
13	LOT	TRAY DELIVERY CART										
14	1	ICE MACHINE/BIN	4.7 AMP						46"	*	*	
15	1	JUICE DISPENSER	6 AMP						46"		*	
16	1	CONVEYOR TOASTER	7 AMP						46"		*	
17	1	COFFEE BREWER					22.5 AMP		46"		*	
18	1	WORK TABLE WITH SINK	4 AMP						24"		*	
19		NOT USED										
20		NOT USED										
21		NOT USED										
22	1	FRENCH FRY CUTTER										
23	1	FIRE SUPPRESSION SYSTEM	20A CKT						FA			*
24	1	STAINLESS STEEL WALL FLASHING										
25	1	FRYER / FILTER					48 AMP		30"		*	*
26	1	EXHAUST HOOD (TYPE-I)	20A CKT						FA			*
27	1	GRIDDLE/OVEN	4 AMP						30"		*	
28	1	BROILER										
29		NOT USED										
30		NOT USED										
31	1	FILL FAUCET										
32	1	OPEN BURNER RANGE/OVEN	4 AMP						30"		*	

ELECTRICAL ROUGH-IN

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
33	1	2-DECK CONVECTION OVEN	4 AMP						48"		*	
34	1	REACH-IN REFRIGERATOR	3.8 AMP						84"	*	*	
35	1	TRAY DISH UP COUNTER	4 AMP						46"		*	
36	1	DROP IN HOT/COLD WELLS		14.5 AMP					24"		*	*
37		NOT USED										
38		NOT USED										
39		NOT USED										
40	LOT	TRASH CONTAINER										
41	1	WALL SHELF / UTENSIL RACK										
42	1	POT SINK										
43	1	SOILED DISHTABLE										
44	1	PRE-RINSE										
45	1	CONDENSATE HOOD										
46	1	DISHMACHINE (HIGH CHAMBER)					51.8 AMP		72"			*
47	1	CLEAN DISHTABLE										
48	1	DISH RACK SHELF										
49		NOT USED										
50		NOT USED										
51	2	MOBILE DRY RACKS										
52	1	MOBILE POT RACK/TRAY RACK										
53		NOT USED										
54		NOT USED										
55	1	REFRIGERATION SYSTEM					28.6 AMP		ROOF			*

ABBREVIATIONS:

C&P	CORD AND PLUG	STUB	UTILITY UP FROM FLOOR
RECP	RECEPTACLE	DC	DROP CORD WITH RECEPTACLE
HW	HARDWIRE		
HT	HEIGHT		
FA	FROM ABOVE		

SCHEDULE / DRAWING NOTES:

CONNECTED LOAD = EACH CONNECTION SHOWN ON DRAWING

CONNECTION TYPES PROVIDED BY ELECTRICAL DIVISION

NOTES:

ELECTRICAL CONTRACTOR TO PROVIDE:

A. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER FOODSERVICE EQUIPMENT SECTION.

B. ROUGH-IN AND FINAL CONNECTION TO ALL FOODSERVICE EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.

C. ALL ELECTRICAL WORK FOR FABRICATED FOODSERVICE EQUIPMENT SHALL BE COMPLETELY WIRED BY ELECTRICAL CONTRACTOR.

D. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

E. SHUNT TRIP CIRCUIT BREAKERS FOR ALL FOODSERVICE EQUIPMENT BELOW EXHAUST HOODS.

F. REFRIGERATION LINE CONDUITS (SEE BUILDING CONDITIONS PLAN).

INTERCONNECTION BETWEEN:

A. REMOTE REFRIGERATION SYSTEM AND FREEZER BLOWER COIL (REVIEW SHEET QF-FS123 & QF-FS124 IN THIS SET FOR ADDITIONAL INFORMATION ON REFRIGERATION LOADS/CONNECTIONS.)

B. ALL COOLER/FREEZER COMPONENTS AND INTERCONNECTING WIRING AS SHOWN ON DRAWINGS (SEE QF-FS123/QF-FS124 FOR ADDITIONAL INFORMATION.)

C. VENTILATOR AND CONTROL PANEL.

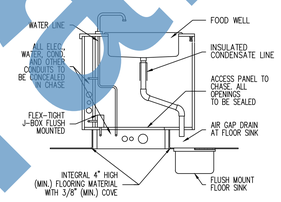
D. FOODSERVICE EQUIPMENT WITH SWITCH ACTIVATION.

E. FIRE PROTECTION SYSTEM AND BUILDING LIFE SAFETY.

SYMBOLS:

- JUNCTION BOX ROUGH-IN
- JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT
- DUPLEX OUTLET ROUGH-IN
- DUPLEX OUTLET PROVIDED IN EQUIPMENT
- SINGLE PHASE POWER OUTLET ROUGH-IN
- SINGLE PHASE POWER OUTLET PROVIDED IN EQUIPMENT
- THREE PHASE POWER OUTLET ROUGH-IN
- THREE PHASE POWER OUTLET PROVIDED IN EQUIPMENT
- FLUSH FLOOR DUPLEX OUTLET ROUGH-IN WITH DATA CONNECTION
- CONDUIT STUB-UP ROUGH-IN
- CP — CIRCUIT PANEL PROVIDED IN EQUIPMENT
- $ — LIGHT/POWER SWITCH ROUGH-IN
- $ — LIGHT/POWER SWITCH PROVIDED IN EQUIPMENT
- LED — COLD STORAGE ROOM LED LIGHT STRIP PROVIDED BY FSEC/INSTALLED BY EC
- P — COLD STORAGE ROOM HEATED PRESSURE RELIEF PORT PROVIDED IN EQUIPMENT
- H — COLD STORAGE ROOM DOOR HEATER PROVIDED IN EQUIPMENT
- A — COLD STORAGE ROOM TEMPERATURE ALARM PROVIDED IN EQUIPMENT
- F — FIRE PROTECTION PULL BOX - OCTAGONAL BOX 48" AFF WITH CONDUIT TO CEILING
- K — TYPE K FIRE EXTINGHUSHER

HEALTH DEPT. COUNTER CONSTRUCTION



TYPICAL HEALTH DEPARTMENT REQUIREMENTS:
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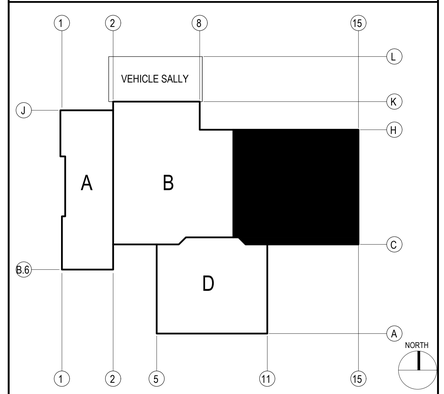
KEY PLAN



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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO: 018133
CLIENT PROJECT NO:
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TITLE

FOODSERVICE ELECTRICAL ROUGH-IN PLAN

SHEET

FS 1.14

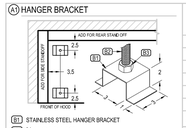
V1

Draft

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
BIM 360://018133 Mono Jail/018133_ARCHMSTR_R20_CENTRAL.rvt
5/18/2021 6:19:13 PM
4/26/2022 12:03:42 PM

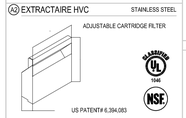
IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

A1 HANGER BRACKET



B1 STAINLESS STEEL HANGER BRACKET
B2 ⅜" THREADED ROD
B3 ⅜" HEAVY DUTY LOCK NUTS, (1) ABOVE (1) BELOW
(THREADED ROD & LOCK NUTS NOT PROVIDED)

A2 EXTRACTAIRE HVC — STAINLESS STEEL



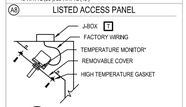
FILTER:			#26					
H x L	EFF AREA		QTY	AREA	QTY	AREA	QTY	AREA
16'16	0.40	X	4	1.60				
16'20	0.51	X	5	2.55				
TOTAL EFF AREA =			4.15	=		=		=

HOOD EX. CFM ÷ TOTAL EFF AREA = FPM
OPERATING RANGE OF THE FILTER (250 TO 1400 FPM)

A3 HOOD CANOPY LIGHTING FIXTURE

- RECESSED L.E.D. WARM LIGHTS - 3000K
- SPECIFICALLY DESIGNED FOR CANOPY HOODS
- TEMPERATURE RATED TO 75°C (167°F)
- MEETS NFPA CODE 96 & NEC 410
- TOTAL LUMENS OUTPUT = 4228 (36"), 4925 (48")
- 43 WATTS (36"), 53 WATTS (48")

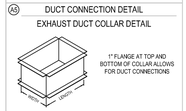
A6 LISTED ACCESS PANEL



REMOVABLE COVER ALLOWS EASY ACCESS FOR INSTALLATION, ADJUSTMENTS AND SERVICE OF MONITORING EQUIPMENT FROM UNDER THE HOOD AND INSIDE THE SMARTAIRE PLENUM.

*FOR TEMPERATURE MONITOR WIRING SEE DETAIL E2

A5 DUCT CONNECTION DETAIL
EXHAUST DUCT COLLAR DETAIL



BALANCEAIRE NOT INCLUDED
INTERNALLY ADJUSTABLE VARIABLE VOLUME DAMPER

PATENT# D634,419 S

THE BALANCEAIRE BLADES CAN BE ADJUSTED TO VARYING POSITIONS FROM 100% OPEN TO 95% CLOSED TO INCREASE THE AMOUNT OF RESISTANCE IN THE HOOD EXHAUST COLLAR. THE EXHAUST FAN MUST BE SIZED TO ACCOUNT FOR THE BALANCEAIRE'S ADDED RESISTANCE.

EXHAUST COLLAR APPROVAL

OPTIONS
- ☐ SHIP COLLAR LOOSE (THE PURCHASER ACCEPTS THE OBLIGATION AND COST OF CUTTING/WELDING COLLAR)
- ☐ WELD COLLAR TO HOOD (DIMENSIONS REQUIRED)

DRAWING APPROVAL

THIS DRAWING MUST BE REVIEWED, SIGNED & RETURNED TO STREIVOR AIR SYSTEMS PRIOR TO THE START OF FABRICATION.

VERIFY THE FOLLOWING:
1. ALL DIMENSIONAL INFORMATION, MOUNTING LOCATIONS & CLEARANCES.
2. THE LOCATION & TYPE OF COOKING EQUIPMENT.

APPROVED FOR FABRICATION
- ☐ APPROVED
- ☐ APPROVED AS NOTED
- ☐ REVISE & RESUBMIT

APPROVED BY _____ DATE _____

NOTE TO REVIEWER:
ANY CHANGES IN COOKING EQUIPMENT SUCH AS EQUIPMENT POSITION, TYPE AND/OR INCREASE IN ENERGY OUTPUT MAY AFFECT EXHAUST AIRFLOW. STREIVOR AIR SYSTEMS MUST BE NOTIFIED OF ANY CHANGES THAT OCCUR PRIOR TO FABRICATION. A RE-ENGINEERING OF THE EXHAUST AIRFLOW MAY BE REQUIRED.

HOOD SCHEDULE

						EXHAUST							
									DIST. FROM COOKING SURFACE TO LOWER EDGE OF HOOD. (UL1)		TEMPER-ATURE OVERHANG (FROM SIDE) (UL2)	(UL3)	EQUIP. DUTY TEMPERATURE (UL4)
NO.	MODEL	L	W	H	WEIGHT	SPEC. CFM	SP	CFM/FT	MIN.	MAX.	SIDE	FRONT	MAX.
26	SAWCBD 1706024	170	60	24	1569	2862	0.77	202	36	48	6	6	600
45	DMH 424220.5	42	42	20.5	133	700	0.50	200	N/A	N/A	8	8	N/A

1. GREATER EXHAUST AND/OR LESSER SUPPLY AIR FLOW RATES MAY BE REQUIRED FOR COMPLETE VAPOR AND SMOKE REMOVAL IN SPECIFIC INSTALLATIONS.
2. THE EXHAUST FAN MUST BE OPERATED WHENEVER THE COOKING EQUIPMENT IS TURNED ON. (NFPA SECTION 11.1.1).

HOOD CANOPY MATERIAL: ALL 304 SERIES STAINLESS STEEL

HOOD LEGEND

1. ALL WELDED ENCLOSURE
2. 16 GA. SIDES, REMAINDER OF HOOD TO BE NO LESS THAN 18 GA.
3. PITCHED GREASE DRIP TRAY
4. ENCLOSED METAL CONTAINER
5. CONTAINMENT PANEL: LIGHT DUTY
6. ENCLOSURE PANEL: INCLUDED
7. UTILITY CABINET (REQUIRES 36" OF OPEN SPACE IN FRONT OF THE DOOR)
8. 12" HOOD OVERHANG IS RECOMMENDED FOR ALL HEAVY DUTY COOKING APPLIANCES
9. 8" ROUND INTERNAL HOOD FAN (IHF) COLLAR WITH UL LISTED FIRE DAMPER 6"X6"
10. INTERNAL HOOD FAN W/SPEED CONTROL
11. SEE ELECTRICAL SCHEDULE - CONSULT FACTORY FOR ALTERNATE INPUT POWER LOCATION(S)

TAMPER RESISTANT HARDWARE

HEX DRIVE (PINHN) ROUNDED HEAD SCREWS

ELECTRICAL SCHEDULE

CIRCUIT	DESCRIPTION	VOLTS/PHASE	AMPS	FEED FROM
E1	LIGHTS	120/1	2	CB
E2	STM	120/1	2	CB
E3	IHF	120/1	2	CB
—	—	—	—	—

CB: CIRCUIT BREAKER BY ELECTRICAL CONTRACTOR

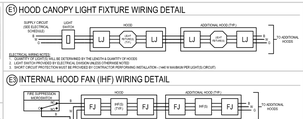
NOTE:
IF AN ELECTRICAL CONTROL PANEL FOR THE HOODS IS INCLUDED, THE ABOVE SCHEDULE IS NOT VALID. REFER TO DEMANDAIRE DRAWINGS.

ELECTRICAL LEGEND

- STREIVOR FACTORY WIRING
- FIELD WIRING BY OTHERS
- LJ — HOOD CANOPY LIGHT(S) JUNCTION BOX
- TJ — TEMPERATURE MONITOR(S) JUNCTION BOX
- FJ — INTERNAL HOOD FAN(S) JUNCTION BOX

NOTE: FACTORY INSTALLATION OF JUNCTION BOXES MAY DIFFER FROM LOCATION ON DRAWINGS

E1 HOOD CANOPY LIGHT FIXTURE WIRING DETAIL



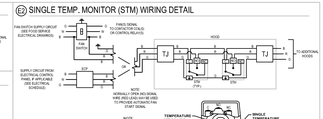
ELECTRICAL WIRING NOTES:
1. ELECTRICAL WIRING TO BE DETERMINED BY THE LENGTH & QUANTITY OF HOODS
2. LIGHT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR (OPTIONAL)
3. SHORT CIRCUIT PROTECTION MUST BE PROVIDED BY CONTRACTOR PERFORMING INSTALLATION - CWB 14 MAXIMUM PER LUMITEK CIRCUIT.

E3 INTERNAL HOOD FAN (IHF) WIRING DETAIL

ELECTRICAL WIRING NOTES:
1. ELECTRICAL WIRING TO BE DETERMINED BY THE LENGTH & QUANTITY OF HOODS
2. FAN SWITCH PROVIDED BY ELECTRICAL DIVISION (OPTIONAL - RECOMMENDED)
3. ELECTRICALLY INTERLOCK AIRSUPPLY/EXHAUST FANS.
4. SHORT CIRCUIT PROTECTION MUST BE PROVIDED BY CONTRACTOR PERFORMING INSTALLATION
5. MAXIMUM OF TWO INTERNAL HOOD FANS PER HOOD
6. SHORT CIRCUIT PROTECTION MUST BE PROVIDED BY CONTRACTOR PERFORMING INSTALLATION
7. INTERNAL HOOD FANS MUST COMPLY WITH NFPA 96 SECTION 5.2.7

NFPA 96 SECTION 5.2.7
5.2.7 INTERNAL HOOD FAN(S) HOOD EXHAUST SYSTEM DISCHARGES. WHEN SUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF

E2 SINGLE TEMP. MONITOR (STM) WIRING DETAIL



WARNING:
DISCONNECT SUPPLY CIRCUIT POWER BEFORE SERVICING STM

TEMPERATURE SET POINT DIAL

SINGLE TEMPERATURE MONITOR (STM)

TOP OF HOOD, ACCESS ENCLOSURE COVER, OR NECK OF HOOD DUCT COLLAR

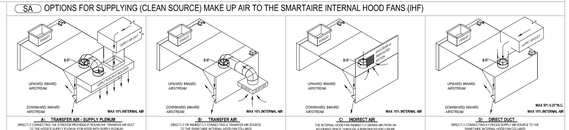
UL LISTED FITTING

THE RECOMMENDED TEMPERATURE SET POINT IS APPROXIMATELY 75°F - 125°F (DEPENDING ON THE TYPE OF COOKING EQUIPMENT) TEMPERATURE IN THE KITCHEN SPACE

DIRECTIONS FOR PROGRAMMING:
1. ON STM, PROVIDE A SIGNAL TO START THE FAN WHEN THE STM HAS PROVIDED A SIGNAL TO ELECTRICAL DIVISION (OVERHEAD FAN)
2. SNOOZE STM SET POINT 5 SIGNALLY ADJUSTABLE
3. SHORT CIRCUIT PROTECTION MUST BE PROVIDED BY CONTRACTOR PERFORMING INSTALLATION

NFPA 96 SECTION 5.3.3
5.3.3 ALL EXHAUST FANS SHALL BE PROVIDED WITH A MEANS SO THAT THE FAN IS ACTUATED WHEN ANY APPLIANCE UNDER THE HOOD IS TURNED ON

SA OPTIONS FOR SUPPLYING (CLEAN SOURCE) MAKE UP AIR TO THE SMARTAIRE INTERNAL HOOD FANS (IHF)



A - TRANSFER AIR - SUPPLY PLENUM: DIRECT CONNECTING THE OVERHEAD WHOLE HOOD SUPPLY TRANSFER AIR DUCT TO THE SMARTAIRE PLENUM. (MAX 10% INTERNAL AIR)

B - TRANSFER AIR: DIRECT TIE IN BEHIND THE COMMERCIAL HOOD TRANSFER AIR SOURCE TO THE SMARTAIRE PLENUM. (MAX 5% INTERNAL AIR)

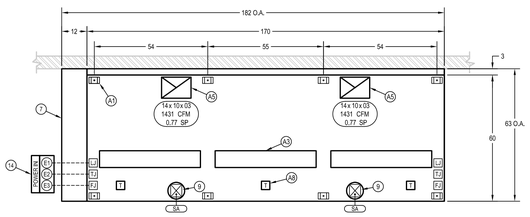
C - INDIRECT AIR: THE INTERNAL HOOD FAN DRAWS AIR FROM AN ADJACENT ROOM. (MAX 0% INTERNAL AIR)

D - DIRECT DUCT: DIRECT CONNECTION TO THE SMARTAIRE PLENUM. (MAX 5% INTERNAL AIR)

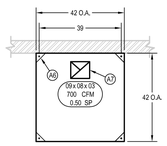
STREIVOR'S SMARTAIRE HOOD HOODS (SAWCBD) HAS INTERNAL HOOD FANS MOUNTED INSIDE OF THE HOOD'S SMARTAIRE PLENUM. THE INTERNAL HOOD FANS HAVE THE CAPABILITY OF OVERCOMING ELECTRIC PRESSURES OF UP TO 0.25 IN. WATER COLUMN AND CAN PULL TRANSFER AIR INTO THE HOOD'S SMARTAIRE PLENUM.

THE SMARTAIRE TECHNOLOGY INCLUDES TWO LOW-VOLUME, HIGH-VELOCITY AIR STREAMS INCORPORATED INTO THE LOWER FRONT EDGE OF THE HOOD. THE AIR STREAMS RUN CONTINUOUSLY ACROSS THE INNER FRONT EDGE OF THE HOOD, ONE AIR STREAM IS DIRECTED IN AN UPWARD, BWAND DIRECTION AND ONE AIR STREAM IS DIRECTED IN A DOWNWARD, BWAND DIRECTION. THE SMARTAIRE TECHNOLOGY SIGNIFICANTLY IMPROVES THE HOOD'S ABILITY TO CAPTURE AND CONTAIN THE THERMAL PLUME AND COOKING EFFLUENTS GENERATED FROM COOKING APPLIANCES UNDER THE HOOD. THE AIR STREAMS ARE LOCATED WITHIN THE HOOD'S CANOPY AND ARE THEREFORE CONSIDERED TO BE REPLACEMENT/COMPENSATING AIR, EFFORTS SHOULD BE TAKEN TO ENSURE THAT UNCLEAN TRANSFER AIR (SUCH AS KITRC AIR) IS NOT USED FOR THE SMARTAIRE TECHNOLOGY AIR STREAMS.

ASHRAE/ASHRAE 90.1 AND CALIFORNIA TITLE24 ENERGY CODES LIMIT THE AMOUNT OF REPLACEMENT AIR THAT CAN BE INTRODUCED INTO A HOOD TO 10% OF THE HOOD EXHAUST AIRFLOW RATE. SMARTAIRE HOODS ARE DESIGNED TO COMPLY WITH THESE ENERGY CODES.

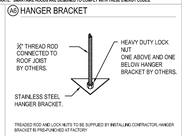


HOOD #26
PLAN VIEW



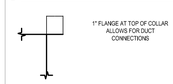
HOOD #45
PLAN VIEW

A4 HANGER BRACKET

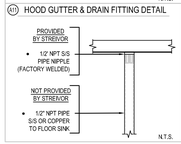


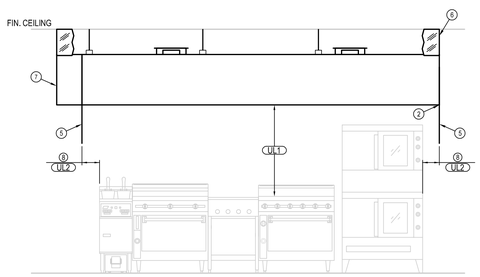
THREADED ROD AND LOCK NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR, HANGER BRACKET IS PREFABRICATED AT FACTORY

A7 EXHAUST COLLAR DETAIL

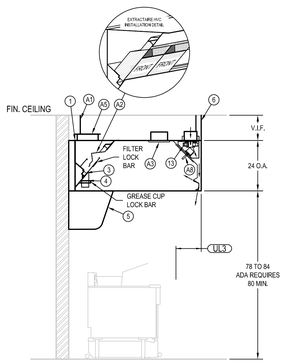


A11 HOOD GUTTER & DRAIN FITTING DETAIL



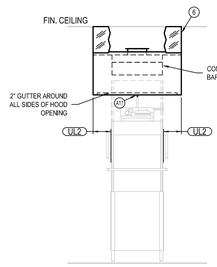


HOOD #26
ELEVATION VIEW

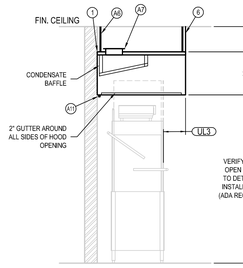


HOOD #26
SECTION VIEW

HOOD #45
NOT UL LISTED
(NOT REQUIRED FOR TYPE 2)
ALL TYPE 304 SERIES STAINLESS STEEL



HOOD #45
ELEVATION VIEW



HOOD #45
SECTION VIEW

GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREIVOR, INC. (STREIVOR AIR SYSTEMS, STREIVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN WRITING.

STREIVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES DUE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREIVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR: BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREIVOR, INC. IN A TIMELY MANNER.

PRE - INSTALLATION

OBTAIN, READ AND UNDERSTAND STREIVOR'S HOOD INSTALLATION, OPERATION AND MAINTENANCE MANUAL PRIOR TO INSTALLATION, STARTUP OR BALANCING.

INSTALLATION

ALL INSTALLATION, STARTUP AND BALANCING MUST BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH ALL APPLICABLE PREVAILING CODES AND STANDARDS.

STANDARD NFPA 96 HOOD CLEARANCES
0" TO NON-COMBUSTIBLE MATERIALS
3" TO LIMITED-COMBUSTIBLE MATERIALS
18" TO COMBUSTIBLE MATERIAL

OVERHEAD CLEARANCES
10" CLEARANCE IS REQUIRED ABOVE THE HOOD

REDUCED CLEARANCES
REDUCED CLEARANCES MAY BE AVAILABLE. CONSULT FACTORY FOR REDUCED CLEARANCE OPTIONS.

TEST AND BALANCE
THE SPECIFIED EXHAUST CFMS LISTED ON THIS DRAWING MUST BE MET DURING TEST AND BALANCE OF THE HOOD SYSTEM(S).
VARIANCE EXHAUST = 0% +10%
VARIANCE SUPPLY= 10% -10%

STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

PROJECT:
MONO COUNTY JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

THE MARSHALL ASSOCIATES

HOOD #:	26 & 45
DATE:	07/18/2022
DRAWN BY:	SVB
CHECKED BY:	RLF
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1'-0"

IF BAR LENGTH NOT MEASURE 1" THEN DRAWING IS NOT SCALED TO SCALE

	DESCRIPTION	DATE	INIT
0.	—	-/-/-	—
1.	—	-/-/-	—
2.	—	-/-/-	—
3.	—	-/-/-	—
4.	—	-/-/-	—

DRAWING:
H-01
SHEET 01 OF 01

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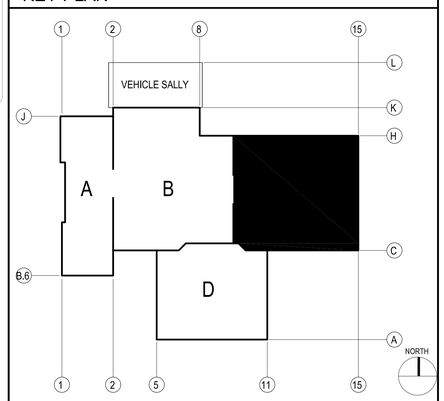
KEY PLAN



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GOVMOTUS No:22-N-3854-CP-DR

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415/677-1200 Fax 415/677-1210

SEAL
LICENSED ARCHITECT
RICHARD L. DAVIS
C27266
REN. 06-30-23
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE
FOODSERVICE MANUFACTURER DRAWINGS - EXHAUST HOOD

SHEET
FS1.15
V1

Draft

BIM 360://018133 Mono Jail/018133_ARCHMSTR_R20_CENTRAL.rvt
5/18/2022 6:19:13 PM
4/26/2022 12:03:42 PM

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY 0 1/4" 1/2" 1" 2"

LISTINGS & STANDARDS

THIS WET CHEMICAL EXTINGUISHING SYSTEM IS ENGINEERED TO PROVIDE FIRE PROTECTION FOR RESTAURANT HOODS, DUCTS AND COOKING APPLIANCES, IS UL 300 LISTED AND IS TO BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS:

- NFPA 17A 2017 EDITION
- NFPA 10 2018 EDITION
- NFPA 96 2017 EDITION

SECTIONS & CODES

NFPA 10 2018 EDITION

(6.6.2) MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 30 FT (9.1 M) FROM THE HAZARD TO THE EXTINGUISHER(S).

NFPA 17A 2017 EDITION

(3.2.1.18.1) EACH MANUAL ACTUATION DEVICE SHALL BE INSTALLED NO MORE THAN 48 IN. (1200 MM) AND NO LESS THAN 42 IN. (1067 MM) ABOVE THE FLOOR.

NFPA 96 2017 EDITION

(8.2.3.1) A HOOD EXHAUST FAN(S) SHALL CONTINUE TO OPERATE AFTER THE EXTINGUISHING SYSTEM HAS BEEN ACTIVATED UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE DESIGN OF THE EXTINGUISHING SYSTEM.

(8.2.3.2) THE HOOD EXHAUST FAN SHALL START UPON ACTIVATION OF THE EXTINGUISHING SYSTEM IF THE EXHAUST FAN AND ALL COOKING EQUIPMENT SERVED BY THE FAN HAVE BEEN SHUT DOWN, UNLESS FAN SHUTDOWN IS REQUIRED BY A LISTED COMPONENT OF THE VENTILATION SYSTEM OR BY THE LISTING OF THE EXTINGUISHING SYSTEM.

(8.3.2) WHEN THE FIRE EXTINGUISHING SYSTEM ACTIVATES, MAKEUP AIR SUPPLIED INTERNALLY TO A HOOD SHALL BE SHUT OFF.

(10.4.1) UPON ACTIVATION OF ANY FIRE EXTINGUISHING SYSTEM FOR A COOKING OPERATION, ALL SOURCES OF FUEL AND ELECTRICAL POWER THAT PRODUCE HEAT TO ALL EQUIPMENT REQUIRING PROTECTION BY THAT SYSTEM SHALL AUTOMATICALLY SHUT OFF.

(10.4.3) ANY GAS APPLIANCE NOT REQUIRING PROTECTION BUT LOCATED UNDER VENTILATING EQUIPMENT WHERE PROTECTED APPLIANCES ARE LOCATED SHALL BE AUTOMATICALLY SHUT OFF UPON ACTIVATION OF THE EXTINGUISHING SYSTEM

(10.4.4) SHUTOFF DEVICE SHALL REQUIRE MANUAL RESET.

(10.5.1.1) AT LEAST ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED IN A MEANS OF EGRESS OR AT A LOCATION ACCEPTABLE TO THE AHJ.

(10.5.1.2) THE MANUAL ACTUATION DEVICE SHALL CLEARLY IDENTIFY THE HAZARD PROTECTED.

CMC 2018 EDITION

(915.5) MANUAL ACTIVATION SHALL BE ACCESSIBLE IN THE EVENT OF A FIRE, NOT LESS THAN ONE MANUAL ACTUATION DEVICE SHALL BE LOCATED NOT LESS THAN 10 FEET (3048 MM) AND NOT MORE THAN 20 FEET (6096 MM) FROM THE PROTECTED EXHAUST SYSTEM(S). [BC 2018: 904.12.1]

INSTALLATION REQUIREMENTS

1. ALL PIPE SHALL BE SCHEDULE 40 BLACK IRON CHROME PLATED/SLEEVED WHERE EXPOSED.
2. ALL CYCMEPA SYSTEMS SHALL HAVE 3/8" SUPPLY LINES AND 3/8" BRANCH LINES.
3. ALL WIRE ROPE SHALL BE 1/16" STAINLESS STEEL AND RUN THROUGH 1/2" EMT CONDUIT.
4. ALL LISTED CORNER PULLEYS REQUIRED WHENEVER THE 1/16"STAINLESS STEEL CABLE DIRECTION CHANGES.
5. ALL EQUIPMENT WITH FIRE PROTECTION MUST BE SECURED TO FLOOR. (NOT BY STREVOR)
6. SWIVEL ADAPTERS MAY BE ADDED TO NOZZLES FOR UP TO 30° ROTATION.

SYSTEM #1

HOOD #26

ZONE COVERAGE: Duct	Plenum	Appliances	COVERAGE DESCRIPTION	NOZZLE	QTY.	FLOW POINTS	PAGE
■	☐	☐	DUCT	--	-	#	-
☐	■	☐	PLENUM	--	-	#	-
☐	☐	■	FRYER	--	-	#	-
☐	☐	■	GRIDDLE	--	-	#	-
☐	☐	■	BROILER	--	-	#	-
☐	☐	■	RANGE	--	-	#	-

CYLINDER/PIPING LIMITATIONS

CYLINDER	FLOW POINTS	TOTAL LENGTH*	TOTAL VOLUME	FIRST TO LAST NOZZLE LENGTH*	FIRST TO LAST NOZZLE VOLUME
PCL-460	15	69.33 FT	2600 ML	53.33 FT	2000 ML
PCL-460	14	90.67 FT	3400 ML	80.00 FT	3000 ML
PCL-300	10	50.93 FT	1910 ML	30.00 FT	1125 ML
PCL-160	5	40.00 FT	1500 ML	16.00 FT	600 ML

CABLE/LINE LIMITATIONS

ITEM		LENGTH (MAX.)	PULLEYS (MAX.)	BRACKETS (MAX.)
FUSIBLE LINK	(pg. 4-8)	150.00 FT	40	20
PULL STATION(S)	(pg. 4-9)	150.00 FT	40	N/A
GAS VALVE(S)	(pg. 4-10)	100.00 FT	30	N/A

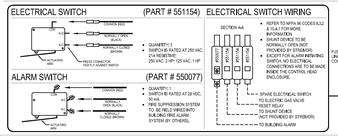
PAGE NUMBERS REFERENCED FROM THE PYROCHEM FIRE SUPPRESSION SYSTEM TECHNICAL MANUAL.
* CALCULATIONS BASED ON 3/4" PIPE (STD.WALL)*[ ] [SS] (pg. 3-44)
*1ML STYLE FUSIBLE LINK INCLUDED WITH SYSTEM (NOT SUPPLIED BY STREVOR). FUSIBLE LINK TEMPERATURE RATING TO BE VERIFIED AND DETERMINED IN FIELD.

LEGEND

SYSTEM # : HOOD #

- CONTROL HEAD
- DETECTION LINE ROUTE
- PULL STATION
- K-CLASS FIRE EXTINGUISHER (SUPPLIED BY OTHERS UNLESS NOTED OTHERWISE)
- RESET RELAY
- GAS VALVE
- PATH OF EGRESS

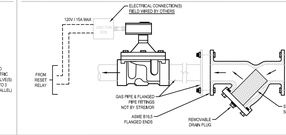
NMCH3 CONTROL HEAD (PART # 551203)



- QUANTITY: 1
- SWITCH IS RATED AT 20 VDC, 50 mA
- PER UL 300 FIRE SUPPRESSION SYSTEM - ONLY ONE SWITCH ON BUILDING FIRE ALARM SYSTEM BY OTHERS).
- REFER TO NFPA 96 CODES 8.3.2 & 8.3.3 FOR MORE INFORMATION.
- SHUNT DEVICE TO BE NORMALLY OPEN (NOT PROVIDED BY STREVOR). ALARM SWITCH ACTUATING SWITCH NO ELECTRICAL CONNECTIONS ARE TO BE MADE INSIDE THE CONTROL HEAD ENCLOSURE.
- SPARE ELECTRICAL SWITCH TO ELECTRIC GAS VALVE.
- RESET RELAY (NOT PROVIDED BY STREVOR).
- ACT PROVIDED BY STREVOR).
- TO BUILDING ALARM

RESET RELAY

- REFER TO MANUAL RESET RELAY INSTRUCTIONS FOR MORE INFORMATION

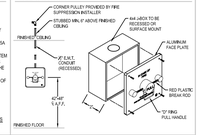


ELECTRIC GAS SHUT-OFF VALVE & FLANGED Y-STRAINER (SEE MEP DRAWINGS FOR LOCATION)

- GAS SHUT-OFF VALVE(S) TO BE SIZED AND LOCATED PER MEP DRAWINGS **(MAXIMUM VALVE SIZE: 3" NPT)**
- VALVE(S) AND STRAINER(S) TO BE INSTALLED BY PLUMBING DIVISION
- EACH VALVE REQUIRES SEPARATE 120VAC/1, 15A CIRCUIT.
- ACTUATION OF THE FIRE EXTINGUISHING SYSTEM SHALL SHUT OFF THE VALVE PREVENTING GAS FLOW AND VALVE TO REMAIN CLOSED UNTIL THE RESET RELAY IS MANUALLY RESET.
- Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE. INSTALL Y-STRAINER ON THE INLET SIDE OF THE GAS VALVE (AS CLOSE AS POSSIBLE).

Y-STRAINER NOT PROVIDED BY STREVOR UNLESS REQUESTED AND ADDED TO PURCHASE ORDER.

PULL STATION (PART # 551074)



GENERAL NOTES:

NOTES TO ARCHITECT AND/OR CONTRACTOR: STREVOR, INC. (STREVOR AIR SYSTEMS, STREVOR STAINLESS) IS A SPECIALIST IN THE LAYOUT AND DESIGN OF KITCHEN VENTILATION SYSTEMS, AND IN NO WAY PURPORTS TO BE ARCHITECTS OR ENGINEERS.

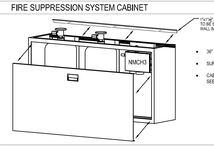
THIS PLAN IS SUBMITTED FOR THE CONVENIENCE OF THE ARCHITECT AND/OR CONTRACTOR AND IS DONE FROM AVAILABLE ARCHITECTURAL INFORMATION. ALL MEASUREMENTS ARE SUBJECT TO PHYSICAL VERIFICATION AND ANY DEVIATIONS OR DISCREPANCIES SHALL BE DIRECTED TO THE ATTENTION OF STREVOR, INC. IN WRITING.

STREVOR, INC. ACCEPTS NO RESPONSIBILITY FOR WORK DONE BY SAID ARCHITECT OR GENERAL CONTRACTOR OR THEIR REPRESENTATIVES OR SUBCONTRACTORS, AND WILL NOT STAND ANY EXPENSE FOR CHANGES MADE NECESSARY DUE TO LOCAL BUILDING CODES, ORDINANCES, STRUCTURAL CONDITIONS, OR BY ANY SUBSTITUTIONS OR CHANGES IN EQUIPMENT SHOWN ON THIS PLAN.

ANY ERRORS, AMBIGUITIES OR OMISSIONS IN THIS PLAN OR SPECIFICATIONS SHALL BE REPORTED TO STREVOR, INC. FOR CORRECTIONS BEFORE ANY OF THE WORK IS STARTED. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN FAVOR OF THE OWNER OR CONTRACTOR, BY VIRTUE OF ERROR, AMBIGUITY OR OMISSION WHICH SHOULD HAVE BEEN DISCOVERED DURING THE PREPARATION OF BID ESTIMATES, AND DIRECTED TO THE ATTENTION OF STREVOR, INC. IN A TIMELY MANNER.

NOTE: FIELD PIPING TO BE INSTALLED BY A STREIVOR APPOINTED FIRE INSTALLER

FIRE SUPPRESSION SYSTEM CABINET



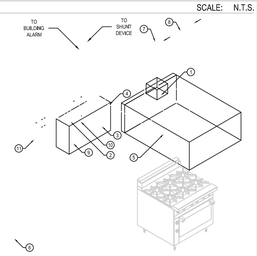
- 36" MINIMUM CLEARANCE REQUIRED IN FRONT OF THE REMOVABLE CABINET DOOR.
- SUPPORT BACKING REQUIRED IF CABINET MOUNTS TO WALL.
- CABINET AND FIRE SUPPRESSION SYSTEM COMPONENTS APPROXIMATELY 100 LBS/FT. SEE PATH OF EGRESS DRAWING FOR CABINET DIMENSIONS)

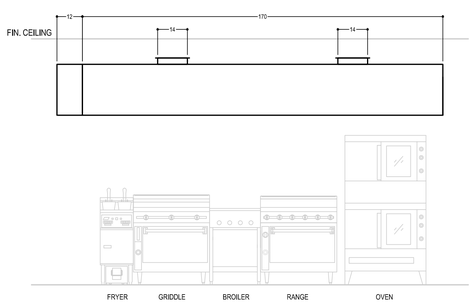
CYLINDER	PCL-300	PCL-300	PCL-460
WEIGHT	34 LBS	33 LBS	43 LBS

PYRO-CHEM FIRE SUPPRESSION SYSTEM

SCALE: N.T.S.

1. HEAT SENSING DETECTORS LOCATED OVER APPLIANCES AND IN DUCT/PLENUM AREAS MONITOR COOKING TEMPERATURE.
2. WHEN A FIRE OCCURS AND THE TEMPERATURE RATING OF THE DETECTOR IS EXCEEDED, THE FUSIBLE LINK FRACTURES AND TRIGGERS A MECHANICAL ACTIVATION OF THE CONTROL HEAD, RELEASING THE AGENT FROM THE PRESSURIZED CYLINDER.
3. PYRO-CHEM'S HIGHLY CONCENTRATED LIQUID FIRE EXTINGUISHING AGENT, STORED IN A D.O.T. RATED STEEL CYLINDER, FLOWS THROUGH DISTRIBUTION PIPING TO APPLIANCE, DUCT, AND PLENUM AREAS.
4. PRE-ENGINEERED PIPING INSTALLED IN ACCORDANCE WITH UL LISTED PARAMETERS TO DISTRIBUTE EXTINGUISHING AGENT TO NOZZLES.
5. PYRO-CHEM'S PROPRIETARY NOZZLES, WITH CUSTOMIZED DISCHARGE PATTERNS DEVELOPED SPECIFICALLY FOR EACH APPLIANCE, DIRECT THE AGENT ACCURATELY TO ENSURE RAPID FIRE SUPPRESSION.
6. REMOTE PULL STATION PROVIDES A MANUAL MEANS OF ACTIVATING THE SYSTEM.
7. AUXILIARY OUTPUT FUNCTIONS (GAS SHUT-OFF VALVE) PROVIDE A MEANS TO INTERRUPT THE FLOW OF COOKING GAS.
8. Y-STRAINER REQUIRED FOR THE PROTECTION OF THE GAS VALVE
9. THE FIRE EXTINGUISHING AGENT CYLINDER AND MECHANICAL CONTROL HEAD CAN BE MOUNTED IN AN OEM STAINLESS STEEL ENCLOSURE WITH UL LISTED MOUNTING BRACKET
10. JUNCTION BOX FOR NMCH3 CONTROL HEAD ELECTRICAL CONNECTIONS.
11. MANUAL RESET RELAY FOR ELECTRICAL GAS VALVE

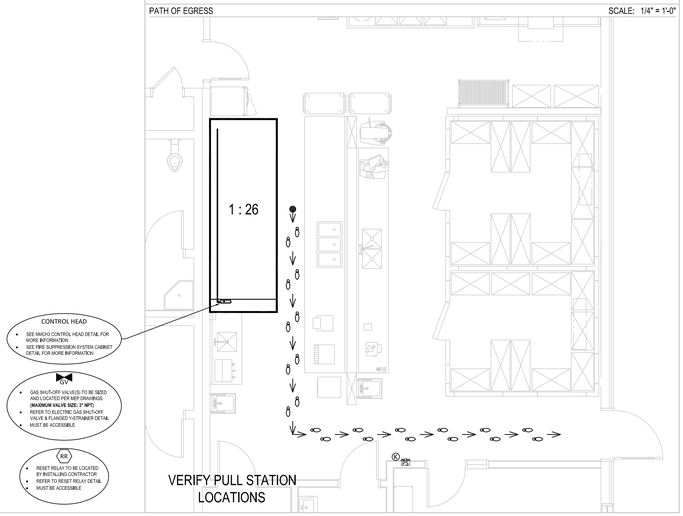




SYSTEM #1 : HOOD #26
ELEVATION VIEW - SCALE : 1/2" = 1'-0"

PATH OF EGRESS

SCALE: 1/4" = 1'-0"



STREIVOR™ AIR SYSTEMS
"STRIVING FOR EXCELLENCE"
2150 KITTY HAWK ROAD, LIVERMORE, CA 94551
PHONE: (925) 960-9090 FAX:(925) 960-9055
WWW.STREIVOR.COM

PROJECT:
MONO COUNTY JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

THE MARSHALL ASSOCIATES

ITEM #:	23
SYSTEM #:	1
HOOD #:	26
DATE:	07/15/2022
DRAWN BY:	SWG
CHECKED BY:	JCS
CONSULTANT:	THE MARSHALL ASSOCIATES
SCALE: (UNLESS OTHERWISE NOTED)	1/2" = 1' - 0"

IF THIS DRAWING IS NOT REDUCED 1" THIS DRAWING IS NOT PLOTTED TO SCALE

	DESCRIPTION	DATE	BY
1	PREUM	-/-/-	--
2	--	-/-/-	--
3	--	-/-/-	--
4	--	-/-/-	--
5	--	-/-/-	--

DRAWING:

F-01

SHEET 01 OF 01

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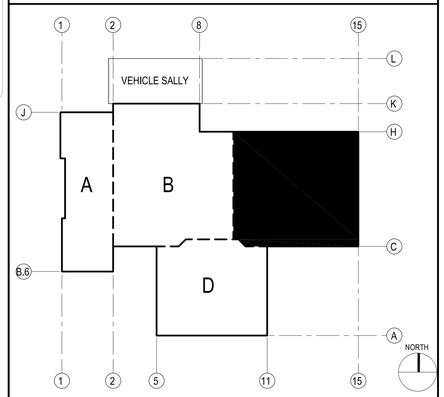
KEY PLAN



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CONSULTANT

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2129 4th Street Santa Rosa, CA 95404
415/677-1200 Fax 415/677-1210

SEAL

LICENSED ARCHITECT
JAMES C. SAYLES
C27266
EXP. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

ISSUED

MARK	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

LIONAKIS PROJECT NO:	018133
CLIENT PROJECT NO:	
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TITLE

FOODSERVICE MANUFACTURER DRAWINGS - FIRE SUPPRESSION

SHEET

FS 1.16

V1

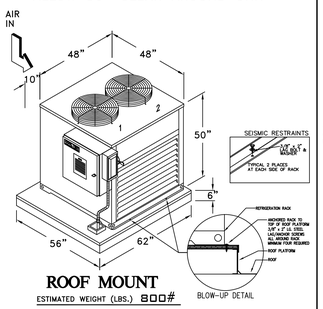
Draft

BIM 360://018133 Mono Jail/018133_ARCHMSTR_P2D_CENTRAL.rvt
BIM 360://018133 Mono Jail/018133_ARCHMSTR_P2D_CENTRAL.rvt
5/18/2022 6:19:13 PM
4/26/2022 12:03:42 PM

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

REFRIG-O-PAK SYSTEM

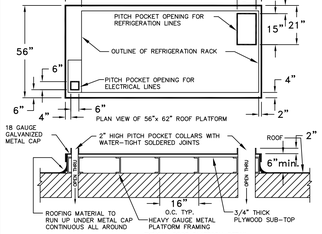
ALLOW 36" CLEAR AROUND UNIT



ROOF MOUNT

ESTIMATED WEIGHT (LBS.) 800#

A R-1 "REFRIG-O-PAK" SYSTEM # CRS-4



TYPICAL ROOF PLATFORM DETAIL

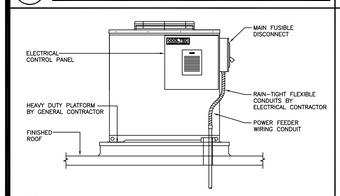
GENERAL CONTRACTOR

1. GENERAL CONTRACTOR TO PROVIDE LEVEL PLATFORM AT CODE HEIGHT.
2. PROVIDE TWO PITCH POCKETS IN THE PLATFORM AS LOCATED.
3. PROVIDE SHEET METAL CAP WITH 2" PITCH POCKET COLLAR AND WITH WATER TIGHT SOLDERED JOINTS.

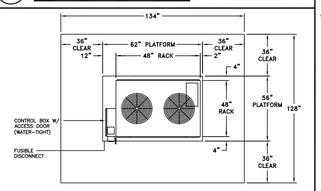
REFRIGERATION CONTRACTOR

1. BACK FILL PITCH POCKET OPENING WITH EXPANDED FOAM AND ROOF SEALANT AFTER COMPLETION OF ELECTRICAL AND REFRIGERATION PIPING.

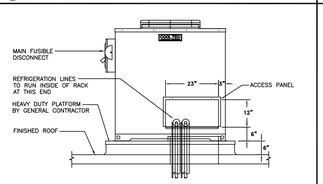
E R-1 PLATFORM DETAIL



B R-1 ELECTRICAL CONTROL PANEL



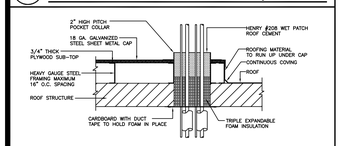
F R-1 CLEARANCE REQUIREMENT AROUND RACK'S PLATFORM



REFRIGERATION LINE SEQUENCE

A	B	C

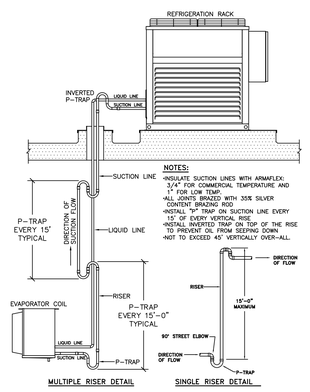
C R-1 REFRIGERATION PIPING CONNECTION SEQUENCE



INSTRUCTIONS FOR REFRIGERATION CONTRACTOR

A. TAPE CARDBOARD AT THE BOTTOM OF EACH PITCH POCKET OPENING AS SHOWN.
B. AT THE TOP OF THE PITCH POCKET OPENING, FILL IN WITH TRIPLE EXPANDABLE FOAM INSULATION (DOW CHEMICAL "GREAT STUFF INSULATING FOAM), AND LET FOAM CURE FOR ONE HOUR.
C. APPLY HENRY #208 WET PATCH ROOF CEMENT IN BETWEEN REFRIGERATION PIPING, ELECTRICAL LINES, AND FOAM. LET CURE FOR FOUR HOURS. THIS SHOULD SEAL ALL PIPING AND LINES IN THE PITCH POCKET, TO PREVENT RAIN WATER FROM PENETRATING THROUGH.

D R-1 RAIN TIGHT PITCH POCKET



NOTES:

-INSULATE SUCTION LINES WITH ARMAFLEX: 3/4" FOR COMMERCIAL TEMPERATURE AND 1" FOR LOW TEMP.
-ALL JOINTS BRAZED WITH 35% SILVER CONTENT BRAZING ROD
-INSTALL "P" TRAP ON SUCTION LINE EVERY 15' OF EVERY VERTICAL RISE.
-INSTALL INVERTED TRAP ON TOP OF THE RISE TO PREVENT OIL FROM SEEPING DOWN.
-NOT TO EXCEED 45' VERTICALLY OVER-ALL.

G R-1 P-TRAP DETAILS AND SUCTION LINE RISER

COOLTEC ENGINEERING SUMMARY

AMBIENT TEMPERATURE 95°F

POWER SUPPLY: 208V/3PH/60HZ — FUSE SIZE: 45 AMP

CONNECTED LOAD = 28.6 AMP — MINIMUM AMPACITY = 31.6 AMP

SYSTEM	ITEM #	FIXTURES DESCRIPTION	FIXTURES TEMP (F) FIXT.	FIXTURES TEMP (F) SST.	REFRIGERANT	REFRIGERANT LBS. IN SYSTEM	COMPRESSORS MODEL	H.P.	RATING @ 60 Hz RLA	V	PH	MBH (95°F)	DEFROST	UNIT COOLER ITEM #	QUANTITY	MODEL	RATING @ 60 Hz 1 # FAN RLA	V	FLA	HEATER FLA	V	PH	SYSTEM TOTAL POWER 208V, 60 Hz AMPS	PH	LINE SIZE (O.D.) AND RUN ROUTE	SUCTION	LIQUID	LINE RUN LENGTH (FEET)	DISCH.	DRAIN	ACCESSORIES (SEE SUPPLY CODE *) HEAD PRESSURE CONTROL	CRANK CASE HEATER	FAN CYCLE SWITCH	SUCTION ACCUMULATOR	THERMOSTAT	SOLENOID VALVE	THERMOSTATIC EXPANSION VALVE	TIME CLOCK
		CONDENSER FAN MOTORS 2																																				
A	2	WALK-IN COOLER	35	25	448A	16	ZS13KAE-TF5	1.5	8.7	208	3	13.5	D	–	1	BEL0125AS6AMA	1.8	115					12.7	3	S	7/8	3/8	100			F	F			F	F	F	KE2MED
		CONDENSER FAN MOTOR						1/2	4.0	208	1																											
B	2	WALK-IN FREEZER	-10	-20	448A	16	ZF13K4E-TF5	4.0	11.9	208	3	14.6	D	–	1	BEL0130BS6EEA	1.5	208	13.7	208	1		15.9	3	S	1/8	3/8	100			F	F	F	F	F	F	F	KE2LOW
		CONDENSER FAN MOTOR						1/2	4.0	208	1																											

C UL US LISTED

CONDENSING UNIT

33SZ FILE SA32027

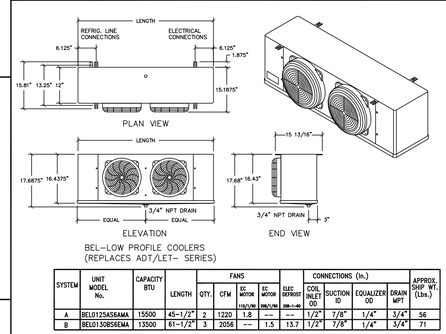
MODEL No. CRS-4

E ELECTRIC (TIMED)
G GRAVITY (TIMED)
H HOT GAS (TIMED)
O OFF CYCLE (TEMP.)
D DEMAND DEFROST (KE2)

B BRANCH
M MAIN
S SINGLE

* SUPPLY CODES:
F – FACTORY INSTALLED
L – LOOSE (FIELD INSTALLED)
M – MANUFACTURER EQUIPPED
R – REFRIGERATION CONTRACTOR

NOTE:
- ALL SYSTEMS ENGINEERED WITH R-448A REFRIGERANT. ANY BASES/COILS NOT SUPPLIED BY COOLTEC MUST BE EQUIPPED WITH R-448A EXPANSION VALVES.
- REFRIGERATION PIPE SIZES ARE BASED ON A MAXIMUM LINE RUN UP TO 100 EQUIVALENT FEET FOR LIQUID AND SUCTION LINES. VERIFY LINE LENGTHS WITH JOB SITE CONDITIONS AND LINE ROUTING AT INDIVIDUAL INSTALLATIONS. IF LINE RUNS ARE GREATER THAN 100 FEET, PLEASE CONTACT COOLTEC FACTORY.
- "COMPRESSOR MOTOR PROTECTED UNDER PRIMARY SINGLE PHASE PROTECTION"
- EFFECTIVE JANUARY 1, 2009, ALL WALK-IN COOLER AND FREEZER EVAPORATIVE COILS INSTALLED IN THE U.S.A. SHALL BE SUPPLIED WITH ENERGY EFFICIENT (EC) MOTORS BASED ON THE FEDERAL ENERGY INDEPENDENCE AND SECURITY ACT (HR-6).
- CONDENSERS ARE ELECTRO-FIN COATED AGAINST SALT AIR CONTAMINATION AND TO MINIMIZE RUST CORROSION.
- REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR LOCATION AND INSTALLATION OF EVAPORATIVE COILS IN REFRIGERATED AREAS.
- ELECTRICAL CONTRACTOR TO SUPPLY POWER FROM BUILDING AND CONNECT POWER TO WALK-IN EVAPORATOR COIL'S DEMAND DEFROST CONTROL AND TO COIL'S DRAIN HEATER.



BEL-LOW PROFILE COOLERS (REPLACES ADT/LET- SERIES)

SYSTEM	UNIT MODEL No.	CAPACITY BTU	LENGTH	QTY.	FANS CFM	FANS EC MOTOR (W/O PN)	FANS EC MOTOR (W/ PN)	FANS ELEC DEFROST (W/ PN)	CONNECTIONS (In.) COIL INLET OD	SUCTION ID	EQUALIZER OD	DRAIN MPT	APPROX. SHIP WT. (Lbs.)
A	BEL0125AS6AMA	15500	45-1/2"	2	1220	1.8	--	--	1/2"	7/8"	1/4"	3/4"	56
B	BEL0130BS6EMA	13500	61-1/2"	3	2056	--	1.5	13.7	1/2"	7/8"	1/4"	3/4"	71

J R-1 UNIT COOLER DETAIL

ELECTRICAL CONTRACTOR TO SUPPLY POWER FROM BUILDING, AND CONNECT POWER TO WALK-IN EVAPORATIVE COILS DEMAND DEFROST CONTROL AND TO COILS DRAIN HEATER.

SYSTEM	DEFROST	UNIT COOLER ITEM #	DESCRIPTION	QUANTITY	MODEL	ELECTRICAL CONTRACTOR TO SUPPLY POWER FROM BUILDING: EVAP COIL RLA	EVAP COIL VOLTAGE	DRAIN HEATER RLA	DRAIN HEATER VOLTAGE	TOTAL CONNECTED LOAD RLA	TOTAL CONNECTED LOAD VOLTAGE
A	D	2	WALK-IN COOLER	1	BEL0125AS6AMA	1.8	115/1	--	---	1.8	115/1
B	D	2	WALK-IN FREEZER	1	BEL0130BS6EMA	13.7	208/1	5.0	208/1	18.7	208/1

NOTE: ELECTRICAL CONTRACTOR PROVIDE SEPARATE POWER SOURCE FOR EACH EVAPORATIVE COIL POWER FROM BUILDING

NOTE: REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR LOCATION AND INSTALLATION OF EVAPORATIVE COILS.

SPECIFICATION

ITEM NO. R-01 REMOTE REFRIGERATION PACKAGE

THE REFRIGERATION PACKAGE SHALL BE PRE-ENGINEERED AND FACTORY ASSEMBLED UNIT, TRADE NAME "REFRIG-O-PAK", AS MANUFACTURED BY COOLTEC REFRIGERATION CORP., 1250 E. FRANKLIN AVE., POMONA, CA 91766. PHONE: (909) 865-2229, FAX: (909) 868-0777.
E-MAIL ADDRESS: sales@cooltecrefrigeration.com

CONTRACTOR SHALL FURNISH AND INSTALL, WHERE SHOWN ON PLANS, (1) COOLTEC U.L. APPROVED "REFRIG-O-PAK" AIR COOLED REMOTE REFRIGERATION PACKAGE, MODEL CRS-4, WITH CONTROL PANEL, 208 VOLTS, 3 PHASE, 60 HERTZ. REFRIGERATION SYSTEM SHALL BE HOUSED IN A WEATHER PROTECTED ENCLOSURE. THE FRAME, ENCLOSURE, AND PANELS SHALL BE FABRICATED OF GALVANIZED STEEL. THE ENTIRE FRAME SHALL BE PRE-ASSEMBLED, WELDED, CLEANED, AND PRIMED AND POWDER COATED EPOXY ENAMEL AND BAKED. CONDENSER FAN MOTORS SHALL BE MOUNTED ON THE TOP OF THE ENCLOSURE FOR BETTER HEAT DISCHARGE.

1. REFRIGERATION UNITS
   A. AIR-COOLED CONDENSING UNITS SHALL BE HERMETIC/GLACIER SCROLL TYPE (COPELAND). EACH UNIT SHALL BE EQUIPPED WITH HIGH-LOW PRESSURE CONTROL, LIQUID LINE DRIER, SIGHT GLASS, HEAD PRESSURE CONTROL, TIME CLOCKS AND PUMP DOWN SOLENOIDS.
   B. ALL COMPRESSOR UNITS SHALL BE NEW FACTORY ASSEMBLED TO OPERATE WITH THE REFRIGERANT SPECIFIED IN THE ENGINEERING SUMMARY SHEET. REFRIGERANT R-448A SHALL BE USED ON ALL COMMERCIAL TEMPERATURE UNITS AND LOW TEMPERATURE UNITS.
   C. THE CONDENSER SHALL BE SECTIONAL, REMOVABLE, WITH RIFLED TUBE SLOTTED FINNED, AND SHALL BE DESIGNED FOR 20"TD.
   D. THE CONDENSER SHALL BE ELECTRO-FIN COATED AGAINST SALT AIR CONTAMINATION AND CORROSION.
2. PRE-PIPING
   A. ALL REFRIGERANT LINES SHALL BE EXTENDED TO ONE SIDE OF THE PACKAGE IN A NEAT AND ORDERLY MANNER. SUCTION LINES MUST BE INSULATED WITH ARMAFLEX (1" THICK FOR LOW TEMP, 3/4" THICK FOR MEDIUM TEMP).
   B. ALL PIPING SHALL BE SECURELY SUPPORTED AND ANCHORED WITH CLAMPS.
   C. SILVER SOLDER AND/OR SIL-FOS SHALL BE USED FOR ALL REFRIGERANT PIPING. SOFT SOLDER IS NOT ACCEPTABLE.
   D. ALL PIPING TO BE PRESSURE TESTED WITH NITROGEN AT 200 PSI.
   AFTER THE CONDENSING UNIT AND COIL HAVE BEEN CONNECTED, THE BALANCE OF THE SYSTEM SHALL BE LEAKED TESTED WITH ALL VALVES OPENED.
3. CONTROL PANEL
   A. THE PACKAGE SHALL HAVE A FACTORY MOUNTED AND PRE-WIRED CONTROL PANEL, COMPLETE WITH MAIN FUSED DISCONNECT. COMPRESSOR CIRCUIT BREAKERS, FUSES, CONTACTORS AND THE TIME CLOCKS WIRED FOR SINGLE POINT CONNECTION.
   B. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL MAIN POWER LINES TO PANEL, ALL IN ACCORDANCE WITH THE WIRING DIAGRAM AND PER LOCAL CODES.
4. SAFETY CAUTION
   A. EACH SYSTEM AND EVAPORATOR IS SHIPPED UNDER NITROGEN PRESSURE.
   USE CAUTION AND EXERCISE SAFETY AT ALL TIMES WHEN PREPARING FOR FINAL HOOK-UP.
5. EVAPORATIVE COIL
   A. EVAPORATIVE COILS SHALL BE DIRECT EXPANSION TYPE, FABRICATED OF COPPER TUBES WITH ALUMINUM FINS. ALL EVAPORATIVE COILS SHALL BE PROVIDED WITH SOLENOID VALVE, THERMOSTATIC EXPANSION VALVE, AND ELECTRONIC THERMOSTAT, PIPED AND WIRED TO THE JUNCTION BOX FOR POSITIVE PUMP DOWN.
   B. EVAPORATIVE COILS SHALL BE EQUIPPED WITH TWO SPEED, ENERGY SAVING "EC" MOTORS (DOE COMPLIANT).
   C. REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR LOCATION AND INSTALLATION OF EVAPORATIVE COILS INSIDE WALK-IN'S, COLD ROOM AND REFRIGERATED DISPLAY CASES (COILS SUPPLIED BY COOLTEC).

CONSTRUCTION NOTES FOR TRADES

1. GENERAL CONTRACTOR
   A. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES.
   B. GENERAL CONTRACTOR TO VERIFY AND CO-ORDINATE LOCATION OF REFRIGERATION RACK WITH REFRIGERATION CONTRACTOR TO SATISFY REFRIGERATION PIPE LENGTHS AND ELECTRICAL LENGTHS OF THE RACK.
   C. GENERAL CONTRACTOR TO VERIFY REFRIGERATION LINE RUNS THRU TO ROOF OR MULTI-STORY BUILDING PRIOR TO CONSTRUCTION WITH REFRIGERATION CONTRACTOR FOR ACCESSIBILITY.
   D. GENERAL CONTRACTOR TO VERIFY ACCESS OF CRANE OR MECHANICAL LIFT WITH REFRIGERATION CONTRACTOR PRIOR TO CONSTRUCTION (IF REQUIRED).
   E. GENERAL CONTRACTOR SHALL PREPARE AND WEATHER PROOF THE PLATFORM AND CURBED OPENINGS FOR REFRIGERATION PIPING AND ELECTRICAL CONDUIT. ROOF PAD TO BE CONSTRUCTED OF HEAVY DUTY STEEL FRAMING, AND THE FINISHED HEIGHT DICTATED PER LOCAL CODES.
   F. PROVIDE SHEET METAL CAP WITH 2" HIGH PITCH POCKET COLLAR AND WATER TIGHT SOLDERED JOINTS.
   G. GENERAL CONTRACTOR TO ALLOW 3'-0" (36") OF CLEAR SPACE AROUND ROOF PAD FOR MAINTENANCE.
   H. ALL CORE DRILLING REQUIRED FOR REMOTE REFRIGERATION PIPING WORK BY THE REFRIGERATION CONTRACTOR, IS IN THE GENERAL CONTRACTOR'S SCOOP OF WORK. COORDINATE EXACT LOCATION AND NUMBER OF PENETRATIONS WITH THE REFRIGERATION CONTRACTOR AND COMPLY WITH ALL LANDLORD REQUIREMENTS FOR X-RAY OF SLAB PRIOR TO WORK.
   I. ANY ATTACHMENT TO BUILDING STRUCTURE FOR LOAD BEARING WEIGHT TO BE PROVIDED AND CO-ORDINATED BY GENERAL CONTRACTOR.
   J. GENERAL CONTRACTOR TO BACKFILL ALL PITCH POCKETS TO TOP WITH TAR OR PITCH AFTER REFRIGERATION AND ELECTRICAL LINES HAVE BEEN RUN.
2. REFRIGERATION CONTRACTOR
   A. REFRIGERATION CONTRACTOR SHALL RUN ALL REFRIGERATION LINES WHICH EXTEND DOWN THRU WALL(S) BEFORE WALL(S) ARE CLOSED UP WHEN CONDUIT IS NOT PROVIDED.
   B. REFRIGERATION CONTRACTOR TO SEAL BOTH ENDS OF CONDUIT WITH FOMOFIL AFTER ALL LINES HAVE BEEN RUN.
   IF PULL BOX(ES) ARE SPECIFIED, THEY MUST BE A MINIMUM 12"x 12".
   C. REFRIGERATION CONTRACTOR SHALL INSULATE ALL REFRIGERATION SUCTION LINES.
   D. REFRIGERATION CONTRACTOR SHALL LOCATE AND INSTALL BLOWER COIL(S) AND COMPRESSOR(S) FOR ALL REFRIGERATED AREAS.
   E. REFRIGERATION CONTRACTOR SHALL PROVIDE ALL SLEEVES AND PENETRATION(S) FOR REFRIGERATION LINE PENETRATION THRU ROOF WITH GENERAL CONTRACTOR. GENERAL CONTRACTOR TO INSTALL ALL PITCH POCKETS.
   F. CONTRACTOR SHALL USE ONLY CLEAN DEHYDRATED, SEALED REFRIGERATION GRADE A.C.R. COPPER TUBING.
   USE ONLY LONG RADIUS ELBOWS TO REDUCE FLOW RESISTANCE AND LINE BREAKAGE.
   G. SILVER SOLDER AND/OR SIL-FOS SHALL BE USED ON ALL REFRIGERANT PIPING. SOFT SOLDER IS NOT ACCEPTABLE.
   USE MINIMUM 35% SILVER SOLDER FOR DISSIMILAR METALS.
   H. ALL PIPING MUST BE SUPPORTED WITH HANGERS THAT CAN WITHSTAND THE COMBINED WEIGHT OF TUBING, INSULATION, VALVES, AND FLUID IN THE TUBING.
   I. USE NITROGEN IN THE COPPER TUBING DURING BRAZING TO PREVENT FORMATION OF COPPER OXIDES. LIQUID AND SUCTION LINES MUST BE BRAZED TOGETHER AND PERPENDICULAR OF EACH OTHER. DO NOT EXCEED 100 FEET WITHOUT A CHANGE IN DIRECTION OR AN APPROVED EQUIVALENT PITCH POCKET. INSTALL SERVICE VALVES, AND P-TRAPS AT THE BASE OF ALL SUCTION RISERS AND AT EVERY 15 FEET OF EVERY VERTICAL RISE. INSTALL SERVICE VALVES AT SEVERAL LOCATIONS FOR EASE OF MAINTENANCE. THESE VALVES MUST BE APPROVED FOR 450 PSI WORKING PRESSURE.
   J. ALL PIPING TO BE PRESSURE TESTED WITH NITROGEN AT 200 PSI WITH ALL VALVES OPEN AND HELD FOR 12 HOURS.
   K. ELECTRONIC LEAK DETECTORS SHALL BE USED TO LOCATE ALL LEAKS.
   L. COMPLETE SYSTEM SHALL BE EVACUATED TO 500 MICRONS WITH VACUUM PUMP BEFORE CHARGING THE SYSTEM.
   L. ONCE SYSTEM IS CHARGED AND RUNNING, ADJUST ALL CONTROLS ..... INCLUDING PRESSURE CONTROLS, EXPANSION VALVES, THERMOSTATS, AND TIME CLOCKS. RETURN AFTER 24 HOURS TO VERIFY PROPER OPERATION OF SYSTEMS.
   M. THE REFRIGERATION CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINE HEATER WITH INSULATION IN FREEZER TO BE CONNECTED BY ELECTRICAL CONTRACTOR.
   N. REFRIGERANT SUCTION LINES OUTSIDE OF REFRIGERATED COMPARTMENTS, NOT RUN IN CONDUIT, SHALL BE INSULATED BACK TO COMPRESSOR WITH ARMSTRONG ARMA-FLEX AP-25/50 FOAMED PLASTIC INSULATION OR EQUAL IN ACCORD WITH DIRECTION OF THE MANUFACTURER. MINIMUM THICKNESS SHALL BE 3/4 INCH FOR COMMERCIAL TEMPERATURE AND 1.0 INCH FOR LOW TEMPERATURE.
   O. FILL ROOF REFRIGERATION AND ELECTRICAL PITCH POCKETS WITH FOAM AND SEALANT.
   P. REFRIGERATION CONTRACTOR TO SEAL ALL REFRIGERATION LINE PENETRATIONS MADE THRU WALK-IN COOLERS/FREEZERS, AND REFRIGERATED BASE SECTIONS OF COUNTERS.
3. ELECTRICAL CONTRACTOR
   A. ELECTRICAL CONTRACTOR TO PROVIDE MAIN POWER FOR THE REFRIGERATION PACKAGE AND CONNECT CONTROL AND DEFROST SYSTEMS AT THE COIL.
   B. ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR MEDIUM AND LOW TEMPERATURE EVAPORATOR COILS. POWER FROM BUILDING. PROVIDE SEPARATE POWER SOURCE FOR EACH EVAPORATOR.
   C. ELECTRICAL CONTRACTOR TO CONNECT DRAIN-LINE HEATER IN THE FREEZER.
   D. ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE ACCORDANCE WITH THE WIRING DIAGRAM AND PER LOCAL CODES.
   E. IF CONTRACTED, ELECTRICAL CONTRACTOR TO INSTALL ALL CONDUITS FOR REFRIGERATION LINES IN WALLS, PRIOR TO WALLS ARE CLOSED UP. ALL PULL BOXES MUST BE A MINIMUM OF 12"x 12".
4. PLUMBING CONTRACTOR
   A. PLUMBING CONTRACTOR TO PROVIDE TYPE "M" COPPER DRAIN LINES FOR WALK-IN REFRIGERATOR AND FREEZER, PITCHED 1/2 INCH PER FOOT OF RUN. IN FREEZER, HEATED DRAIN LINE MUST BE INSULATED TO PREVENT FREEZING. TRAP DRAIN LINES OUTSIDE OF REFRIGERATED SPACE TO AVOID ENTRANCE OF WARM AND MOIST AIR.
   B. CONTRACTOR TO PROVIDE INDIVIDUAL DRAIN LINE FOR EACH EVAPORATOR UNLESS OTHERWISE CALLED FOR IN THE PLANS.
   C. ALL PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES.

REV LEVEL	DESCRIPTION	DATE
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APPROVED BY:_____

DATE:_____

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1250 E. FRANKLIN AVENUE, POMONA, CA 91766
PHONE: (909) 865-2229 FAX: (909) 868-0777
E-MAIL: sales@cooltecrefrigeration.com

DRAWING TITLE: REFRIGERATION PLAN

PROJECT NAME: MONO COUNTY NEW JAIL 221 TWIN LAKES ROAD BRIDGEPORT, CA 95317

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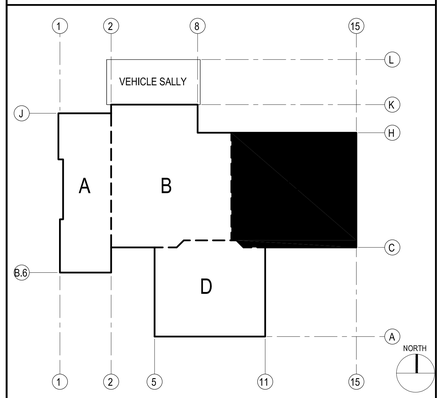
CHECKED BY	PAUL BEDI
DATE 07/19/2022	LATEST REVISION
DRAWING NO.	CTR3109
SHEET	R-1
	1 OF 2 SHEETS

KEY PLAN



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415/677-1200 Fax 415/677-1210

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LICENSED ARCHITECT
RICHARD J. DAVIS
C-27266
REN. 06-30-25
STATE OF CALIFORNIA

PROJECT
MONO COUNTY NEW JAIL

221 TWIN LAKES RD
BRIDGEPORT, CA 95317

CLIENT
MONO COUNTY PUBLIC WORKS DEPARTMENT
P.O.BOX 457, BRIDGEPORT, CA 93517

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CONSTRUCTION DOCUMENTS
SEPTEMBER 11, 2023

MANAGEMENT

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TITLE

FOODSERVICE MANUFACTURER DRAWINGS - REFRIGERATION SYSTEM

SHEET

FS1.17

V1

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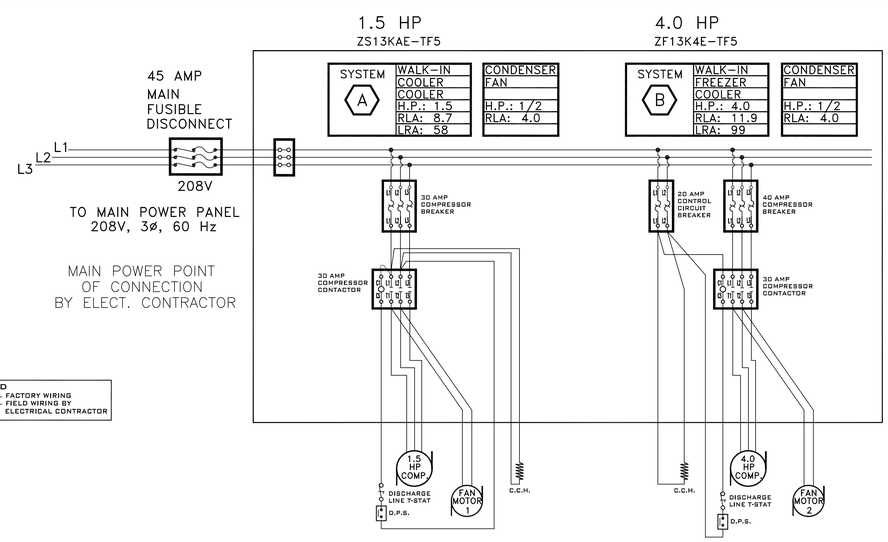
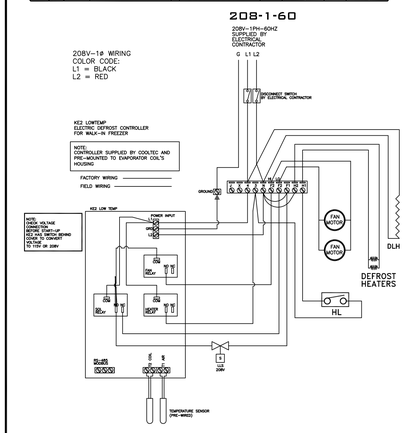


A R-2 WIRING DIAGRAM

POWER REQUIRED FOR LOW TEMPERATURE EVAPORATOR COILS.
POWER FROM BUILDING; SUPPLIED BY ELECTRICAL CONTRACTOR

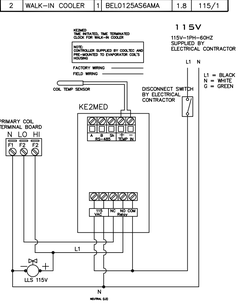
SYSTEM	DEFROST	ITEM #	DESCRIPTION	QUANTITY	MODEL	POWER FROM BUILDING: EVAP. COIL RLA	EVAP. COIL VOLTAGE	DRAIN HEATER RLA	DRAIN HEATER VOLTAGE
B	D	2	WALK-IN FREEZER	1	BEL0130BS6EEA	13.7	208/1	5.0	208/1



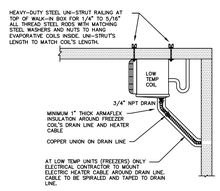
B R-2 DEMAND DEFROST- KE2 LOW TEMP WIRING DIAGRAM FOR FREEZER COIL

POWER REQUIRED FOR MEDIUM TEMPERATURE EVAPORATOR COILS.
POWER FROM BUILDING; SUPPLIED BY ELECTRICAL CONTRACTOR

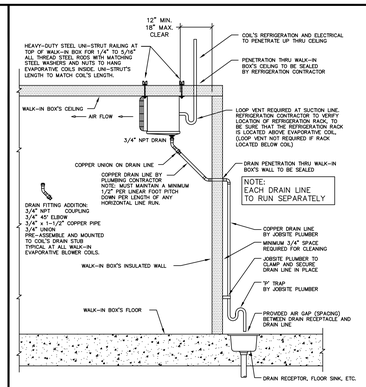
SYSTEM	DEFROST	ITEM #	DESCRIPTION	QUANTITY	MODEL	POWER FROM BUILDING: RLA	VOLTAGE
A	D	2	WALK-IN COOLER	1	BEL0125AS6AMA	1.8	115/1



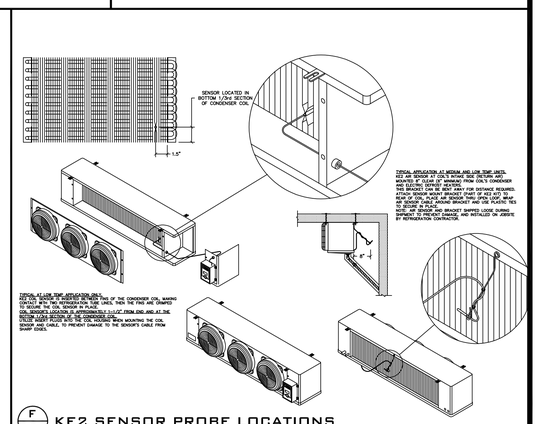
C R-2 DEMAND DEFROST- KE2 MED. TEMP WIRING DIAGRAM FOR COOLER COIL



D R-2 WALK-IN'S FREEZER CONDENSATE DRAIN LINE



E R-2 WALK-IN'S COIL MOUNT AND CONDENSATE DRAIN LINE



F R-2 KE2 SENSOR PROBE LOCATIONS

REV LEVEL	DESCRIPTION	DATE
A	-	-

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PROJECT NAME: MONO COUNTY NEW JAIL
221 TWIN LAKES ROAD
BRIDGEPORT, CA 95317

DRAWN BY	APO
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DATE 07/19/2022	LATEST REVISION
DRAWING NO.	CTR3109
SHEET	R-2
2 OF 2 SHEETS	

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PROJECT
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221 TWIN LAKES RD
BRIDGEPORT, CA 95317

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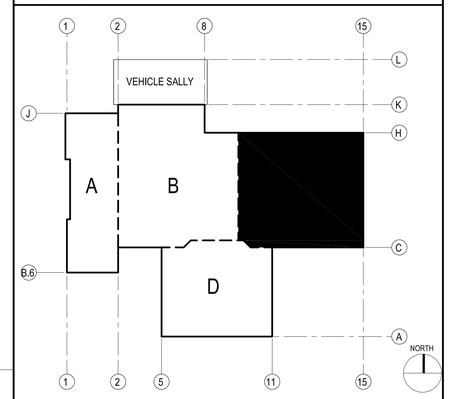
KEY PLAN



CONSTRUCTION DOCUMENTS
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TITLE
FOODSERVICE MANUFACTURER DRAWINGS - REFRIGERATION SYSTEM

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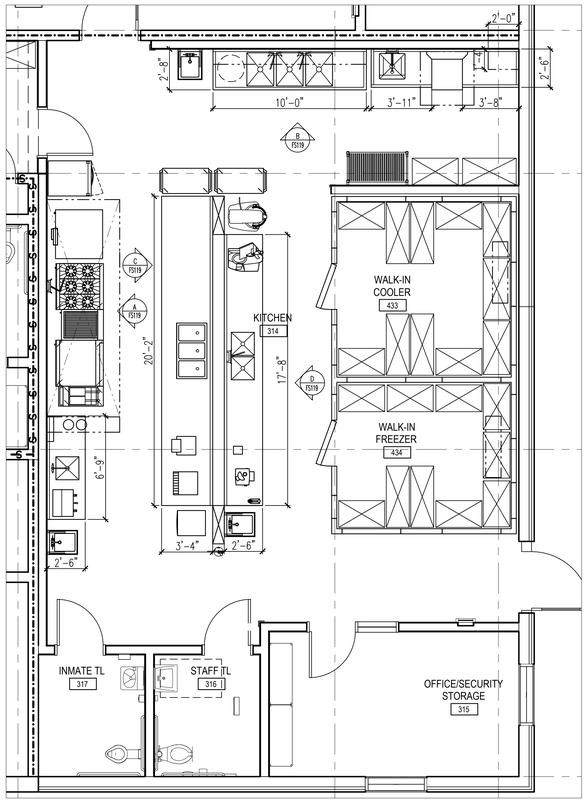
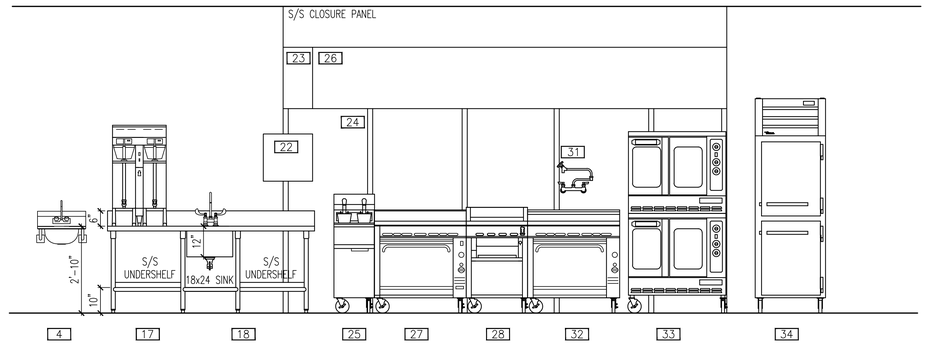
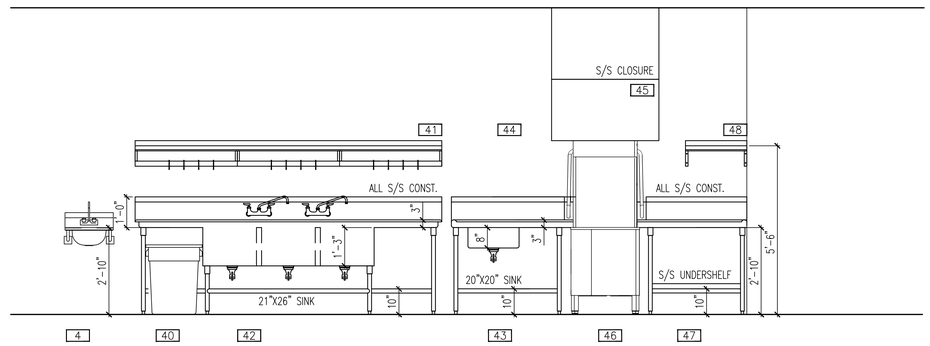


1 FOODSERVICE OVERALL PLAN
SCALE: 1/4" = 1'-0"



A ELEVATION
SCALE: 1/2" = 1'-0"



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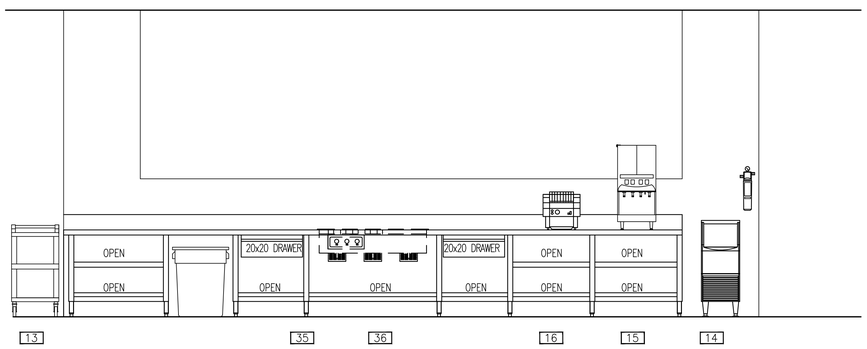

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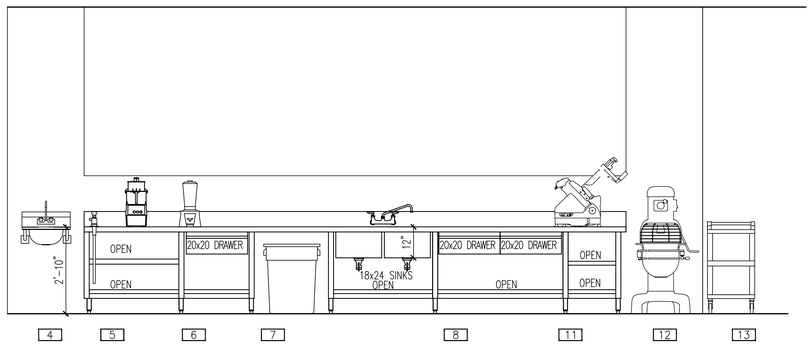


D ELEVATION
SCALE: 1/2" = 1'-0"

NOTES:

ALL CUSTOM FABRICATED EQUIPMENT CONSTRUCTION TO MEET NSF, ETL SANITATION OR UL SANITATION STANDARDS.

FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

VERIFY MATERIALS, FINISHES, HARDWARE WITH INTERIOR DESIGN ARCHITECT.

COORDINATE INSTALLATION OF ALL DROP-IN EQUIPMENT.

COORDINATE WORK BETWEEN GENERAL CONTRACTOR AND TRADES.

PROVIDE SHOP DRAWINGS PER CONTRACT DOCUMENTS AND SHOW ALL MATERIALS, FINISHES, AND HARDWARE FOR VERIFICATION BY ARCHITECT, INTERIOR ARCHITECT AND/OR CONSULTANT.

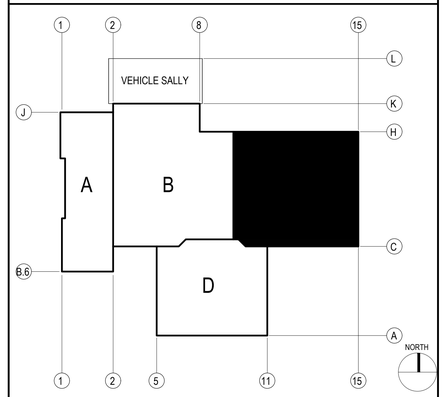
SIZE LOUVERS AND PROVIDE ADEQUATE VENTILATION FOR BUILT-IN SELF-CONTAINED REFRIGERATED EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS.

NOTCH CURBS AT FLOOR SINKS AND MOIBLE/PORTABLE EQUIPMENT THAT SITS ON FLOOR BELOW COUNTERS, FIELD VERIFY LOCATIONS.

S/S - STAINLESS STEEL

Draft

KEY PLAN



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SEPTEMBER 11, 2023

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TITLE
FOODSERVICE ELEVATION DETAILS

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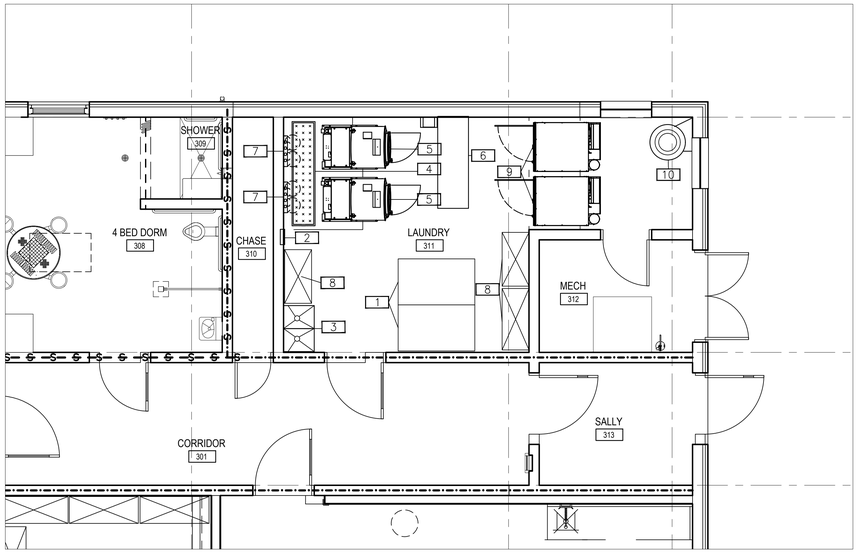


LAUNDRY FLOOR PLAN

SCALE: 1/4" = 1'-0"

LAUNDRY EQUIPMENT SCHEDULE

ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL NUMBER
1	LOT	LAUNDRY CARTS	PROVIDED BY OWNER	NOT IN LEC CONTRACT
2	1	RECESSED EYE WASH	GUARDIAN	GBF17350DP/G3600LF
3	1	2-COMPT SOAK SINK	ADVANCE TABCO	4-2-36
4	1	FLOOR TROUGH	H-M COMPANY	IN GROUND 18x105
5	2	45 LB WASHER/EXTRACTOR	UNIMAC	UWT045N2
6	1	MOBILE FOLDING TABLE	EAGLE GROUP	ADJUSTABLE SERIES
7	2	DETERGENT PUMP	PROVIDED BY VENDOR	NOT IN LEC CONTRACT
8	4	SHELVING	NEXEL	HD SERIES 72 FOUR TIER
9	2	75 LB. DRYER	UNIMAC	UT75
10	1	LINT COLLECTOR	CLEAN CYCLE SYSTEMS	OPL-203
11		NOT USED		
12		NOT USED		
13		NOT USED		
14		NOT USED		
15		NOT USED		

ABBREVIATIONS:

LEC	LAUNDRY EQUIPMENT CONTRACTOR
NIC	NOT IN CONTRACT
ALT	ADD ALTERNATE

SCHEDULE NOTES:

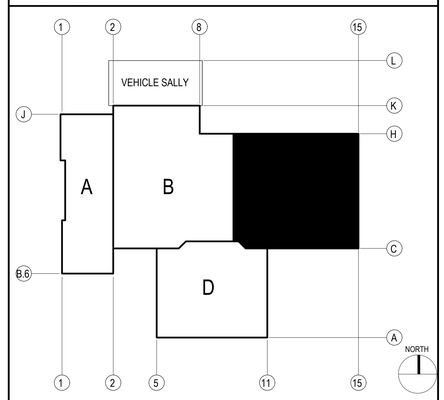
LAUNDRY NOTES:

GENERAL CONTRACTOR TO PROVIDE:

1. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER SECTION 111000 LAUNDRY EQUIPMENT.
2. OPENINGS/ACCESS FOR ALL LAUNDRY EQUIPMENT.

Draft

KEY PLAN



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SEPTEMBER 11, 2023

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LAUNDRY
EQUIPMENT PLAN

SHEET

L1.11

V1

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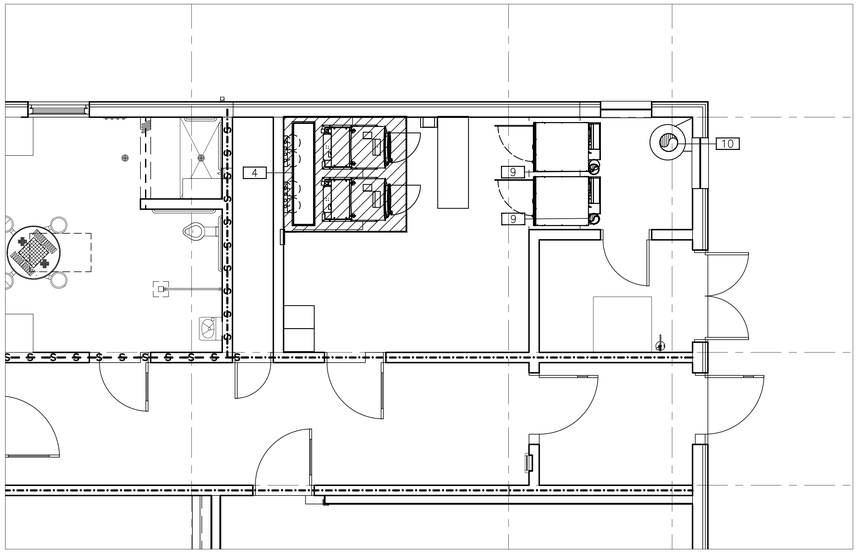


LAUNDRY FLOOR PLAN

SCALE: 1/4" = 1'-0"

LAUNDRY VENTILATION / AIR / WALL BACKING SCHEDULE

ITEM	QTY	DESCRIPTION	VENTILATION EXHAUST			COMPRESSED AIR SUPPLY				VACUUM		WALL BACKING	
			SIZE	CFM	WGSP	SIZE	CFM	PSI	HT	SIZE	HT	HEIGHT	OC
1	LOT	LAUNDRY CARTS											
2	1	RECESSED EYE WASH											
3	1	2-COMPT SOAK SINK											
4	1	FLOOR TROUGH											
5	2	45 LB WASHER/EXTRACTOR											
6	1	MOBILE FOLDING TABLE											
7	2	DETERGENT PUMP											
8	4	SHELVING											
9	2	75 LB. DRYER	8" DIA	750	0.25"								
10	1	LINT COLLECTOR	14" DIA	2500									
11		NOT USED											
12		NOT USED											
13		NOT USED											
14		NOT USED											
15		NOT USED											

ABBREVIATIONS:

CFM	CUBIC FEET/MINUTE	OC	ON CENTER
WGSP	WATER GAUGE STATIC PRESSURE	FA	FROM ABOVE
PSI	POUNDS/SQUARE INCH		
HT	HEIGHT		

SCHEDULE NOTES:

CONNECTED LOAD = EACH CONNECTION AS SHOWN ON DRAWING

DRAWING NOTES:

A MECHANICAL DIVISION TO INSULATE DUCTS FROM CONNECTION TO +84" A.F.F.

LAUNDRY NOTES:

GENERAL CONTRACTOR TO PROVIDE:

1. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER SECTION 111000 LAUNDRY EQUIPMENT.
2. OPENINGS/ACCESS FOR ALL LAUNDRY EQUIPMENT.
3. FLOOR DEPRESSIONS AND THICKENED SLABS AS SHOWN
4. THICKENED SLABS AS SHOWN.
5. TRENCH DRAINS WITH COVERS AS SHOWN.

MECHANICAL DIVISION TO PROVIDE:

1. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER SECTION 11100 LAUNDRY EQUIPMENT.
2. EXHAUST SYSTEMS AND CONTROLS.
3. FINAL DUCT CONNECTIONS.
4. ROUGH-IN AND FINAL CONNECTIONS FOR ALL LAUNDRY EQUIPMENT AS INDICATED ON DRAWINGS AND IN ROUGH-IN SCHEDULE INCLUDING ALL MATERIALS SUCH AS STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, PIPING, TUBING AND SHUT OFF'S AS REQUIRED.

SYMBOLS:

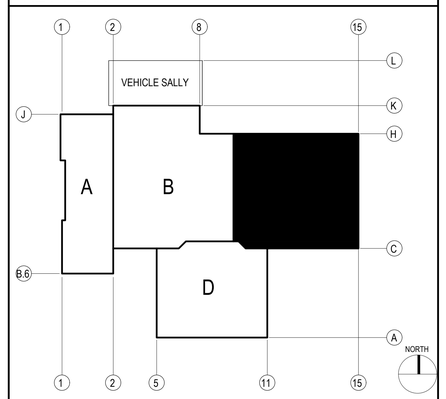
EXHAUST DUCT CONNECTION

COMPRESSED AIR CONNECTION

THICKENED SLAB CONDITIONS

Draft

KEY PLAN



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LAUNDRY
BLDG CONDITIONS &
VENTILATION PLAN

SHEET

L1.12

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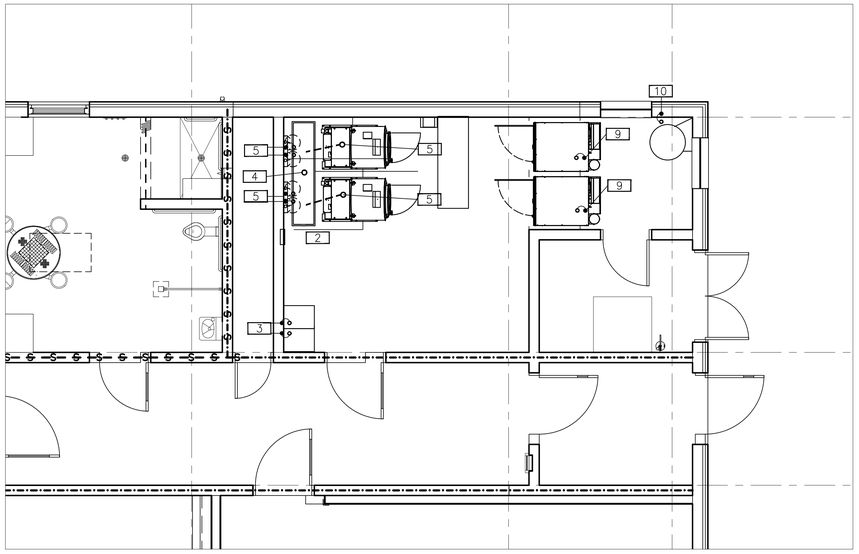


LAUNDRY FLOOR PLAN

SCALE: 1/4" = 1'-0"

LAUNDRY PLUMBING ROUGH-IN SCHEDULE

ITEM	QTY	DESCRIPTION	WATER				GAS			STEAM					WASTE		
			CW	HW	HT	GPH	SUP	MBH	HT	SUP	RET	HT	LB/H	PSI	IND	DIR	HT
1	LOT	LAUNDRY CARTS															
2	1	RECESSED EYE WASH	1/2"	1/2"	18"	5										1"	21"
3	1	2-COMPT SOAK SINK	1/2"	1/2"	21"	10										1-1/2"	18"
4	1	FLOOR TROUGH														6"	-18"
5	2	45 LB WASHER/EXTRACTOR	3/4"	3/4"	FA	70									3"		
6	1	MOBILE FOLDING TABLE															
7	2	DETERGENT PUMP															
8	4	SHELVING															
9	2	75 LB. DRYER	3/4"		FA		3/4"	165	FA								
10	1	LINT COLLECTOR	3/4"		42"												
11		NOT USED															
12		NOT USED															
13		NOT USED															
14		NOT USED															
15		NOT USED															

ABBREVIATIONS:

CW/HW	COLD / HOT WATER	SUP	SUPPLY	IND	INDIRECT WASTE (AIR GAP)
HT	HEIGHT	RET	RETURN	DIR	DIRECT WASTE
GPH	GALLONS PER HOUR (HW)	LB/H	POUNDS PER HOUR		
MBH	BRITISH THERMAL UNIT x 1000	FA	FROM ABOVE		

SCHEDULE NOTES:

CONNECTED LOAD = EACH CONNECTION AS SHOWN ON DRAWING

REFER TO PLUMBING DRAWINGS FOR FLOOR DRAIN INFORMATION

DRAWING NOTES:

A PLUMBING DIVISION TO INTERCONNECT COLD WATER TO LINT COLLECTOR AND INSTALL SOLENOID PROVIDED BY LEC

LAUNDRY NOTES:

PLUMBING DIVISION TO PROVIDE:

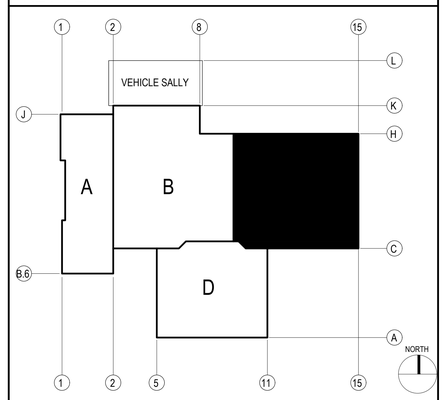
1. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER SECTION 11110 LAUNDRY EQUIPMENT.
2. ROUGH-IN AND FINAL CONNECTIONS FOR ALL FOODSERVICE EQUIPMENT AS INDICATED ON DRAWINGS AND IN PLUMBING ROUGH-IN SCHEDULE INCLUDING ALL MATERIALS SUCH AS STOPS, VALVES, FILTERS, TRAPS, CHECK VALVES, PIPING, TUBING AND SHUT OFF'S AS REQUIRED.
3. PRESSURE REDUCING VALVES AS REQUIRED BY MANUFACTURER.
4. ALL WASTE LINES AS NOTED. MINIMUM DIAMETER OF LINE AS INDICATED IN SCHEDULE REGARDLESS OF CONNECTION SIZE AND SLOPED DOWNWARD WITH ADEQUATE CLEAN-OUT PROVISIONS.
5. MAINTAIN DRAINS AS HIGH AS POSSIBLE ABOVE FLOOR.
6. FLOOR SINKS (SET FLUSH WITH FLOOR).
7. INTERCONNECTIONS AS INDICATED IN ROUGH-IN SCHEDULE AND APPROVED SHOP DRAWINGS.

SYMBOLS:

- HOT OR COLD WATER CONNECTION
- HOT AND COLD WATER CONNECTION
- NATURAL GAS CONNECTION
- DIRECT WASTE CONNECTION
- INDIRECT WASTE TO FLOOR SINK
- FLOOR SINK, CONNECTION AS SHOWN ON PLAN

Draft

KEY PLAN



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LAUNDRY PLUMBING ROUGH-IN PLAN

SHEET

L1.13

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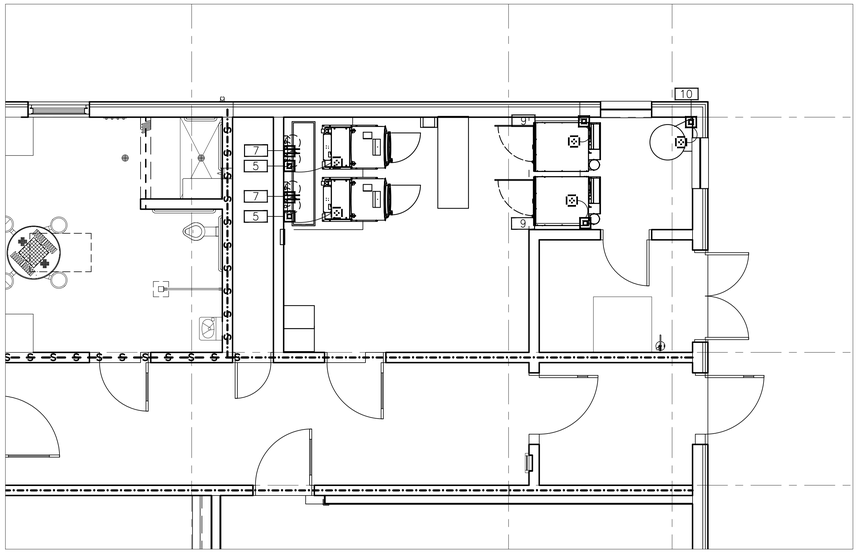


LAUNDRY FLOOR PLAN

SCALE: 1/4" = 1'-0"

LAUNDRY ELECTRICAL ROUGH-IN SCHEDULE

ITEM	QTY	DESCRIPTION	CONNECTED LOAD 120/1	120/208/1	120/208/3	208/1	208/3	480/3	HT	CONNECTION TYPE C&P	RECP	HW
1	LOT	LAUNDRY CARTS										
2	1	RECESSED EYE WASH										
3	1	2-COMPT SOAK SINK										
4	1	FLOOR TROUGH										
5	2	45 LB WASHER/EXTRACTOR					15 AMP		FA			●
6	1	MOBILE FOLDING TABLE										
7	2	DETERGENT PUMP	9.4 AMP						48"	●	●	
8	4	SHELVING										
9	2	75 LB. DRYER	13 AMP						FA			●
10	1	LINT COLLECTOR	3 AMP						48"			●
11		NOT USED										
12		NOT USED										
13		NOT USED										
14		NOT USED										
15		NOT USED										

ABBREVIATIONS:

CONN	CONNECTION TYPE BY DIVISION 16	FA	FROM ABOVE
C&P	CORD AND PLUG	HT	HEIGHT
RECP	RECEPTACLE		
HW	HARDWIRE		

SCHEDULE NOTES:

CONNECTED LOAD = EACH CONNECTION AS SHOWN ON DRAWING

CONNECTION TYPES BY DIVISION 26

DRAWING NOTES:

A ELECTRICAL DIVISION TO INTERCONNECT LINT COLLECTOR COMPONENTS POWER AND CONTROL WIRING

LAUNDRY NOTES:

ELECTRICAL CONTRACTOR TO PROVIDE:

1. WORK AS DESCRIBED IN CONTRACT DOCUMENTS AND SUPPLEMENTAL REQUIREMENTS PER LAUNDRY EQUIPMENT SECTION.
2. ROUGH-IN AND FINAL CONNECTION TO ALL LAUNDRY EQUIPMENT AS INDICATED ON DRAWINGS AND IN ELECTRICAL ROUGH-IN SCHEDULE.
3. ALL JUNCTION-BOXES, ELECTRICAL OUTLETS, COVER PLATES, SWITCHES NOT BUILT INTO FIXTURES OR EQUIPMENT.

INTERCONNECTION BETWEEN:

1. CONTROL PANEL AND LINT COLLECTOR.

SYMBOLS:

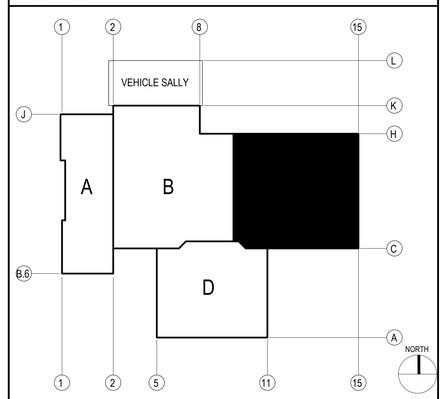
JUNCTION BOX ROUGH-IN

JUNCTION BOX CONNECTION PROVIDED IN EQUIPMENT

DUPLEX OUTLET ROUGH-IN

Draft

KEY PLAN



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LAUNDRY ELECTRICAL ROUGH-IN PLAN

SHEET

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