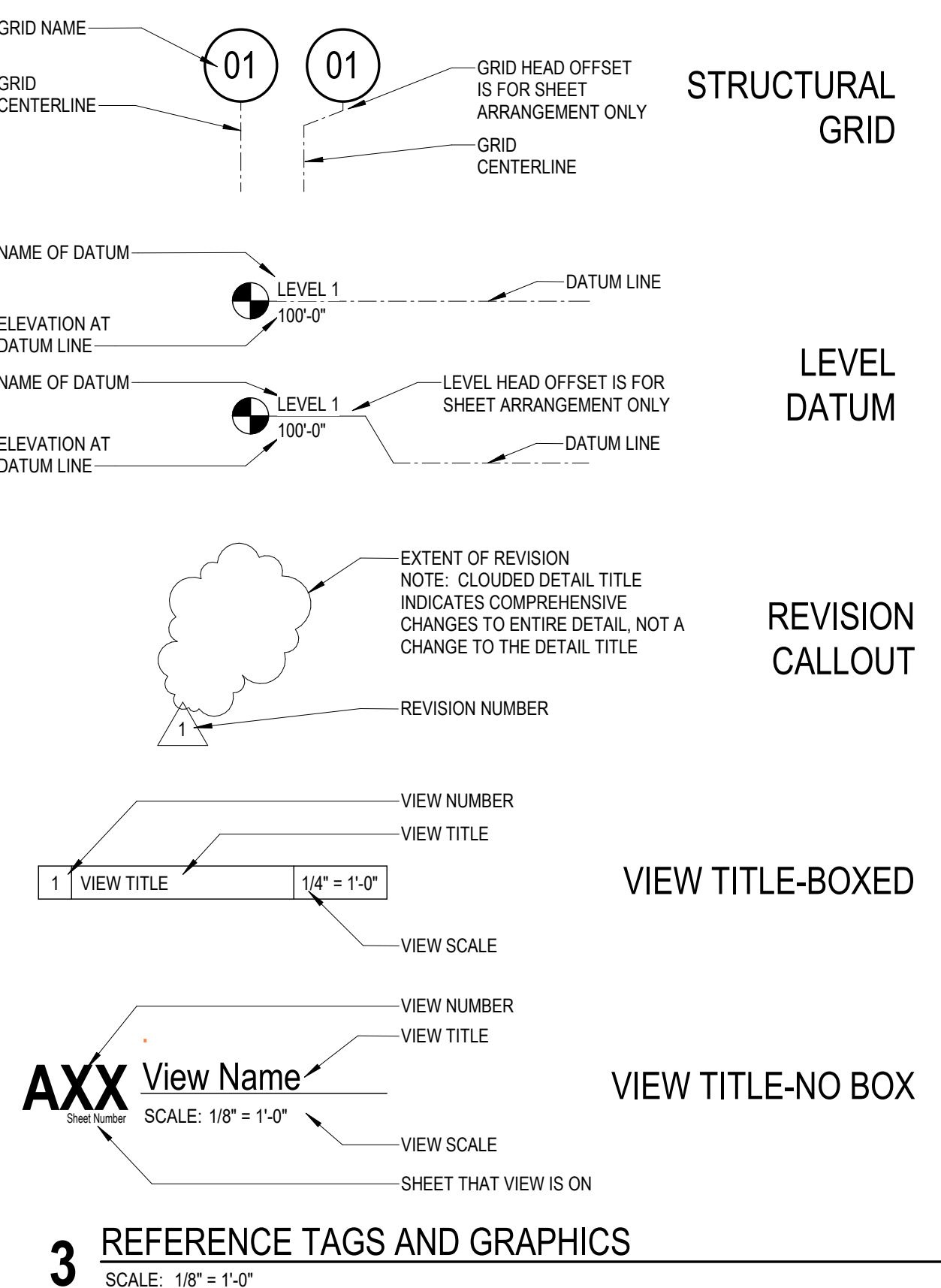
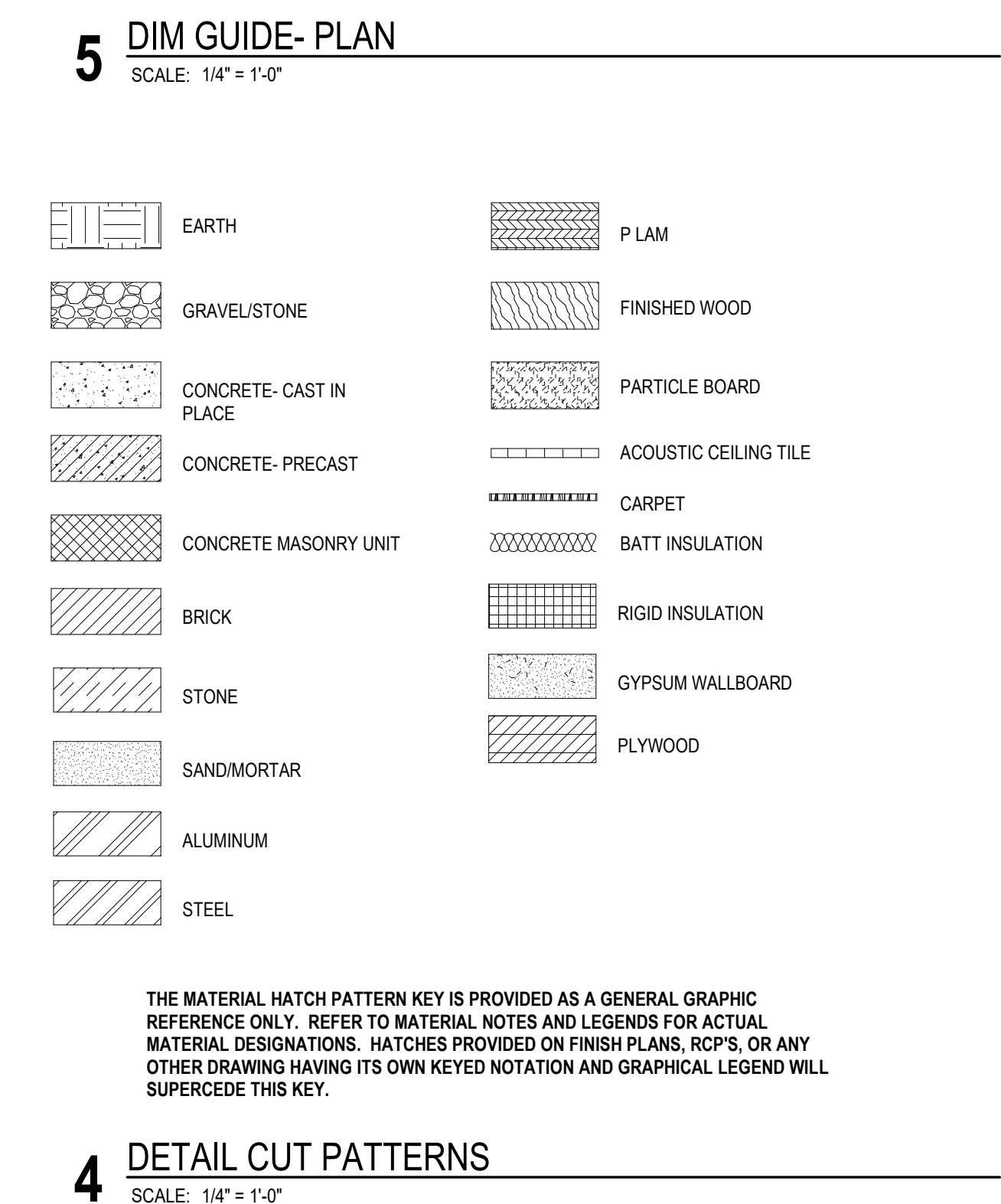
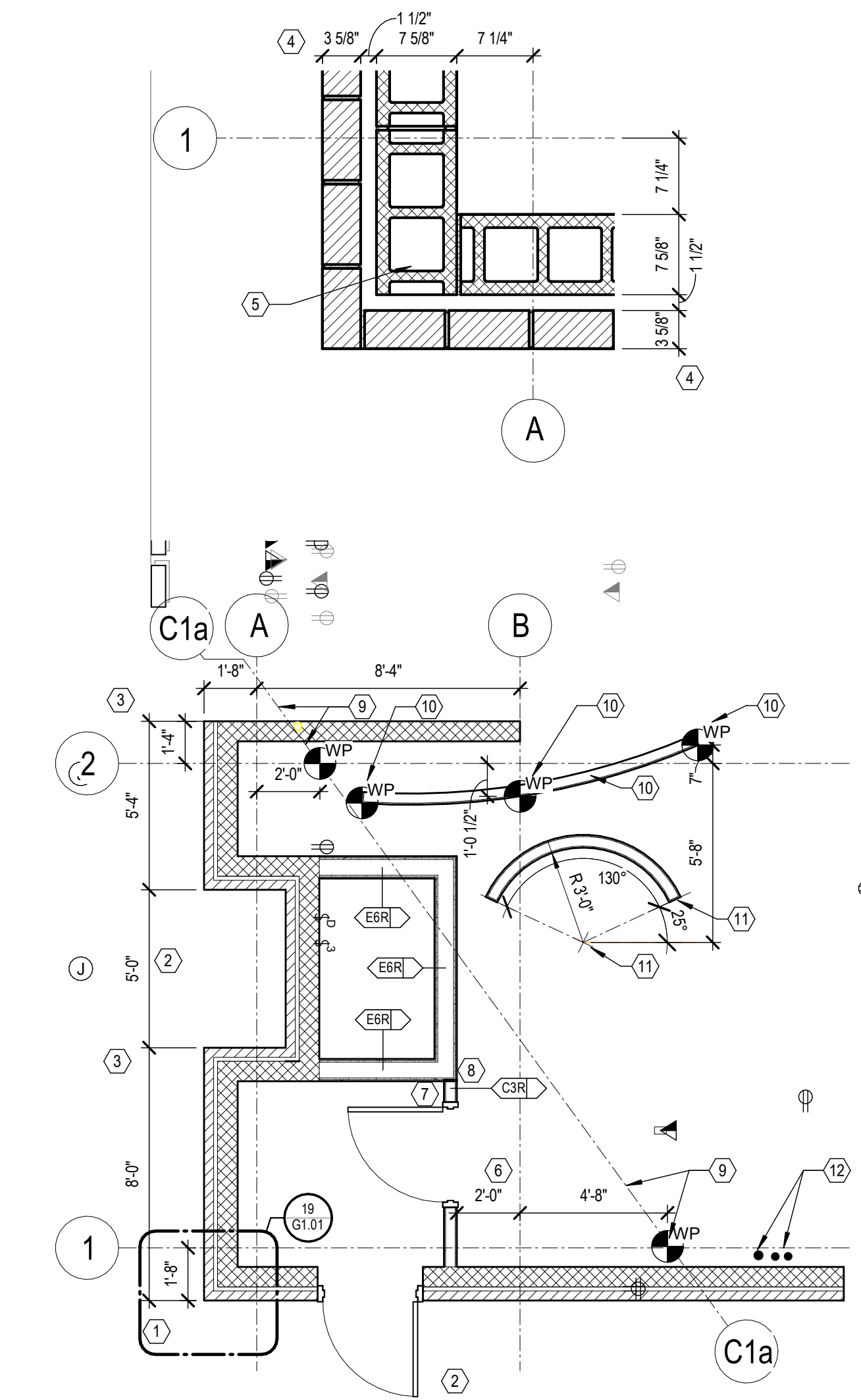


DIMENSIONING NOTES

MARK	NOTE
1	MASONRY PLAN DIMENSIONS ARE NOMINAL AT SCALES NOT SHOWING INDIVIDUAL MODULES
2	OPENINGS ARE NOMINAL MASONRY OPENINGS AT SCALES NOT SHOWING INDIVIDUAL MODULES
3	EXTERIOR WALL DIMENSIONS ARE TO FINISH FACE (SEE WALL SECTION UNLESS NOTED OTHERWISE)
4	DRAWINGS WITH INDIVIDUAL MODULAR UNITS SHOWN ARE DIMENSIONED TO ACTUAL SIZE
5	AT LOCATIONS OF STRUCTURAL MASONRY UNIT TYPE IS SHOWN AS REPRESENTATION ONLY. REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL MASONRY CONSTRUCTION
6	INTERIOR WALL DIMENSIONS ARE TO FINISH FACE OF PARTITION AS TAGGED. PER PARTITION SCHEDULE UNLESS NOTED OTHERWISE. ADDITIONAL FINISHES MAY EXIST. SEE FINISH PLAN.
7	WHERE DOORS ARE ADJACENT TO PERPENDICULAR WALLS, DIMENSION FROM FACE OF WALL TO EDGE OF FRAME IS 4 INCHES UNLESS NOTED OTHERWISE
8	WHERE WALLS OF VARYING FIRE AND/OR SMOKE RATING MEET OR INTERSECT, WALLS OF GREATER RATING SHALL RUN CONTINUOUS
9	ELEMENT POSITIONS BASED ON NON PARALLEL OR NON PERPENDICULAR RELATIONSHIPS TO OTHER ELEMENTS SHALL BE PLACED BY THE WORK POINTS DEFINED INCIDENTALLY FROM THE OTHER ELEMENTS. RADIUS ELEMENTS DEFINED BY MORE THAN 2 WORKPOINTS SHALL BE PLACED BY STRIKING AN ARC TANGENT TO ALL WORKPOINTS. WHERE MORE THAN 3 WORKPOINTS ARE PRESENT, THE ARC AT EACH WORKPOINT SHALL BE TANGENT TO THE ADJACENT WORKPOINT ON EACH SIDE
10	RADIUS ELEMENTS DEFINED BY CENTERPOINTS, RADIUS AND ANGLES SHALL BE PLACED BY MARKING THE CENTERPOINT AND ANGLE OFF THE OBJECTS THE DIMENSIONS ARE INCIDENT FROM.
11	OBJECTS AND INFORMATION SHOWN FROM OTHER TRADES IS FOR REFERENCE ONLY. OBJECTS AND INFORMATION SHOWN MAY NOT BE ALL INCLUSIVE. REFER TO THE APPROPRIATE CONSULTANTS DOCUMENTS FOR INFORMATION ON THESE SYSTEMS.
12	MASONRY CURSING LINES SHOWN IN ELEVATION REPRESENT NOMINAL DIMENSIONS. HORIZONTAL JOINT LINES ARE AT TOP OF MASONRY UNIT. VERTICAL JOINT LINES ARE AT CENTERLINE OF JOINT.



Building Code: 2015 INTERNATIONAL BUILDING CODE (IBC) w/ LOCAL AMENDMENTS
 Mechanical Code: 2012 INTERNATIONAL MECHANICAL CODE (IMC) w/ LOCAL AMENDMENTS
 Plumbing Code: 2015 INTERNATIONAL PLUMBING CODE (IPC) w/ LOCAL AMENDMENTS
 Electric Code: 2018 NATIONAL ELECTRIC CODE (NEC) w/ LOCAL AMENDMENTS
 Fire Code: 2012 INTERNATIONAL FIRE CODE (IFC) w/ LOCAL AMENDMENTS
 Energy Code: 2012 INTERNATIONAL ENERGY CONSERVATION CODE w/ LOCAL AMENDMENTS
 Fuel Gas Code: 2012 INTERNATIONAL FUEL GAS CODE (IFGC) w/ LOCAL AMENDMENTS
 Local Code: 2012 TEXAS ACCESSIBILITY STANDARDS
 Other Code(s): 2012 OTHER CODE / STANDARD
 2012 OTHER CODE / STANDARD
 2012 OTHER CODE / STANDARD

NEW BUILDING CONSTRUCTION TYPE: TYPE II-B (w/ APPROVED SPRINKLER SYSTEM)
 EXISTING BUILDING CONSTRUCTION TYPE: II-B

BUILDING NAME	TYPE II-B
PRIMARY STRUCTURAL FRAME	0 HR
BEARING WALLS	0 HR
EXTERIOR	0 HR
INTERIOR	0 HR
NONBEARING WALLS AND PARTITIONS - EXTERIOR	See Table 602
NONBEARING WALLS AND PARTITIONS - INTERIOR	0 HR
FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0 HR
ROOF CONSTRUCTION AND SECONDARY MEMBERS	0 HR

ROOF SUPPORT RATING REDUCTION (Note a) _____ N/A
 ROOF CONSTRUCTION ABOVE 20 FT RATING REDUCTION (Note b) _____ N/A
 HEAVY TIMBER ALLOWED (Note c) _____ N/A
 AUTOMATIC SPRINKLER SYSTEM RATING REDUCTION (Note d) _____ N/A

FIRE RESISTANCE RATING REQUIREMENTS (Table 602)	FIRE SEPARATION DISTANCE	RATING
A. NORTH WALL	0'	0 HR
B. EAST WALL	0'	0 HR
C. SOUTH WALL	0'	0 HR
D. WEST WALL	0'	0 HR
E. NORTHEAST WALL	0'	0 HR
F.	0'	
G.	0'	
H.	0'	

PRIMARY BUILDING OCCUPANCY: B
 SECONDARY BUILDING OCCUPANCIES:
 MIXED-USE SEPARATION: ACCESSORY OCCUPANCIES _____ NO
 NON-SEPARATED OCCUPANCIES _____ NO
 SEPARATED OCCUPANCIES (SEE TABLE) _____ NO
 **SPECIAL PROVISIONS (PER IBC 510) _____ NO

SEPARATION REQUIREMENTS PER IBC TABLE 508.4

OCCUPANCY	NOT REQUIRED		
B			

** SPECIAL PROVISIONS COMMENTARY
 NONE

CODE- IBC PLUMBING FIXTURES REQUIRED

Area Information	Area Occupancy Key	Area	Area Per Occupant	OCCUPANT LOAD	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS
					MALE	FEMALE	MALE	FEMALE	
FIN FLOOR									
Accessory Storage Areas, Mechanical equipment rooms		54 SF	300 SF	1	0.00	0.00	0.00	0.00	0.00
Assembly - Unconcentrated (tables & chairs)		1509 SF	15 SF	102	0.41	0.78	0.26	0.26	0.20
Business		1104 SF	100 SF	13	0.26	0.26	0.16	0.16	0.13
		2667 SF		116	0.67	1.04	0.42	0.42	0.33
ICE BUILDING L2									
Business		1100 SF	100 SF	13	0.26	0.26	0.16	0.16	0.13
		1100 SF		13	0.26	0.26	0.16	0.16	0.13
Plumbing Fixtures Required (round up to whole number)		3787 SF		129	0.93	1.30	0.58	0.58	0.46

BUILDING OCCUPANT LOADS PER LEVEL

Level	Total Occupants
FIN FLOOR	116
ICE BUILDING L2	13
Total Building Occupants:	129

TRAVEL DISTANCE PATHS

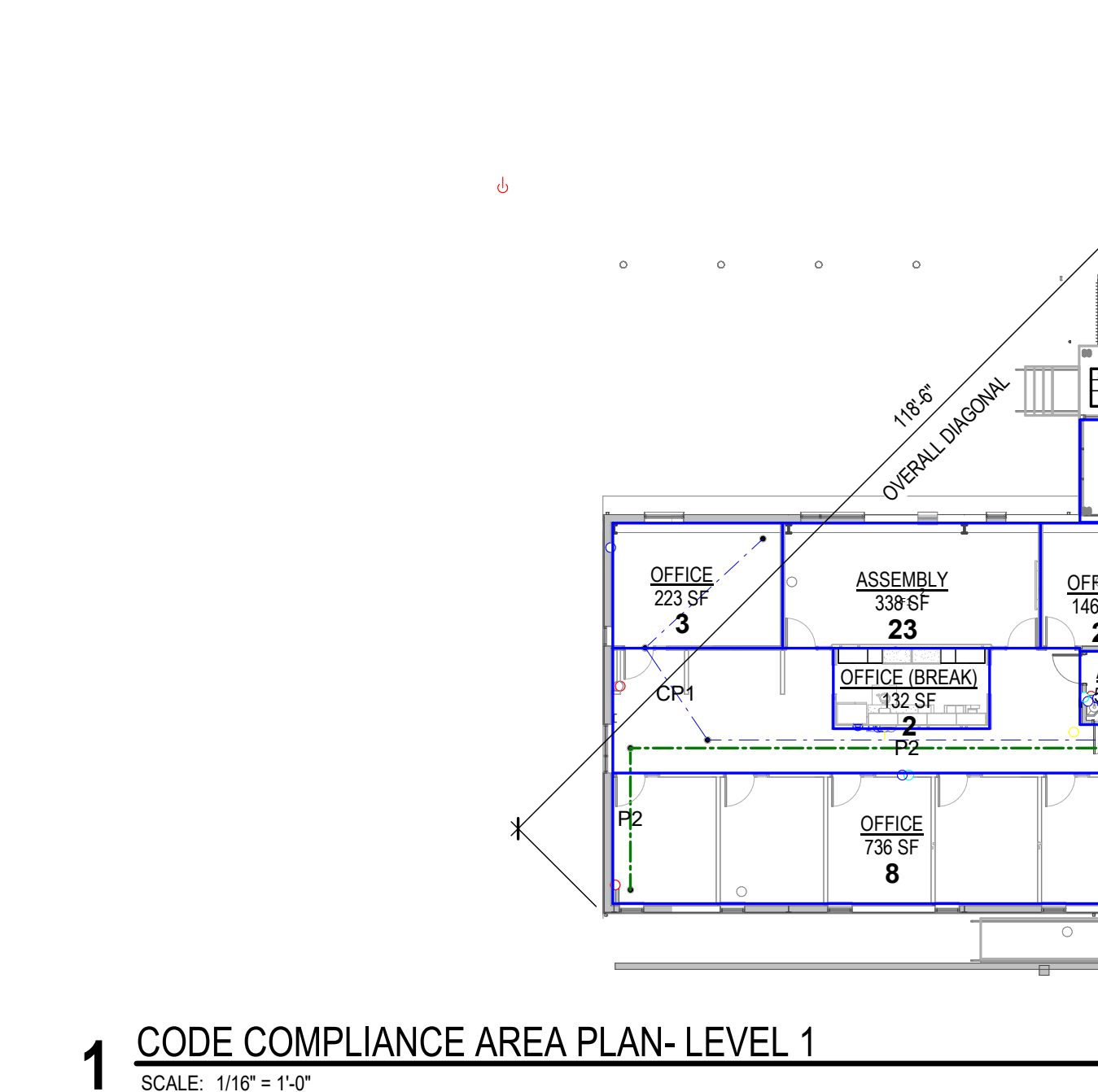
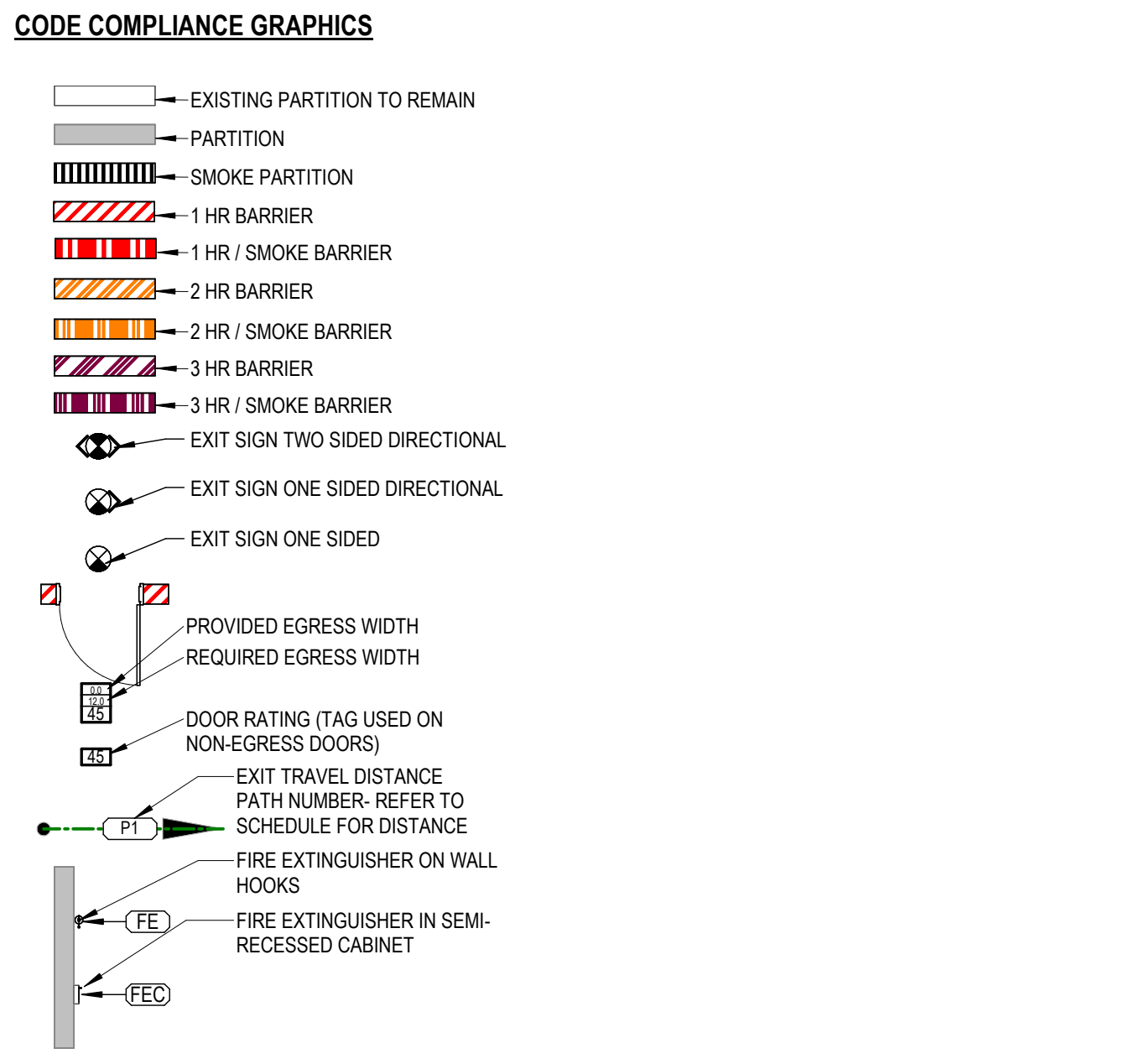
PATH	LENGTH
P1	72'-2"
P2	80'-10"
P3	169'-0"

COMMON PATH OF EGRESS

PATH	LENGTH
CP1	74'-7"

LIFE SAFETY NOTES

THE CODE COMPLIANCE / LIFE SAFETY DRAWINGS ARE FOR REFERENCE ONLY AND DO NOT INDICATE PROJECT SCOPE.
 THEY INDICATE ASSUMED CONFORMANCE OF EXISTING CONSTRUCTION TO APPLICABLE CODE AND/OR GOVERNING CODE AGENCIES' REQUIREMENTS BASED ON OWNER FURNISHED INFORMATION.
 THEY ARE PROVIDED TO SHOW INTEGRATION OF NEW WORK WITH EXISTING CONSTRUCTION AS PART OF A COMPREHENSIVE FIRE/SMOKE BARRIER SYSTEM. LIFE SAFETY PLANS SHOULD NOT BE CONSTRUED TO MEAN VERIFICATION OF FIRE/SMOKE RATINGS OF EXISTING CONSTRUCTION WHERE NEW AND REMODELED CONSTRUCTION OCCURS, AS INDICATED IN THE DRAWINGS. PARTITION FIRE AND SMOKE RATINGS MEET APPLICABLE CODE REQUIREMENTS FOR NEW CONSTRUCTION.



JPS Health Network
Fort Worth, Texas

BECK

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810 HEMPHILL ST
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Consulting Engineers

CFI COMPANIES
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DALLAS, TX 75201
PH: 469-901-2360
WWW.CFICOMPANIES.COM

HOYT HAMMER
18592

HOYT HAMMER
REGISTERED ARCHITECT
STATE OF TEXAS
18592

ARCHITECT SEAL 12/1/2021 2:01:45 PM

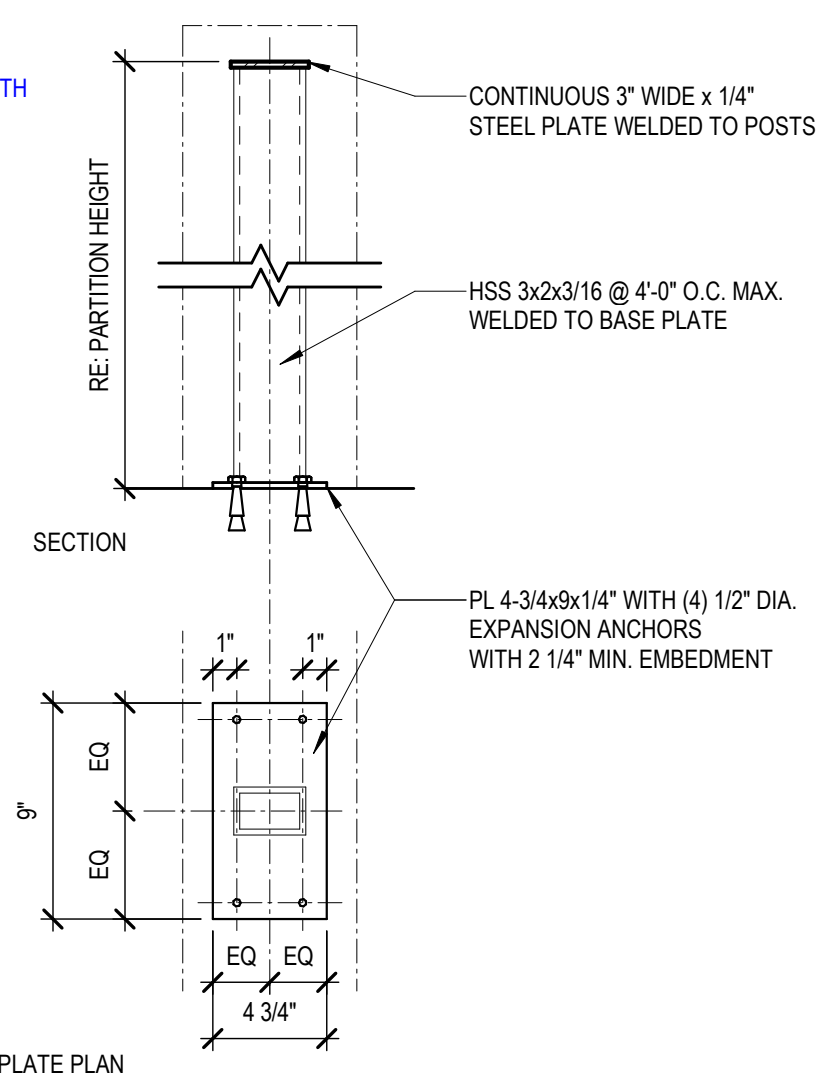
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**THERMAL PLANT
DECOMMISSION_PH 3
THERMAL STORAGE
INTERIOR
IMPROVEMENT**

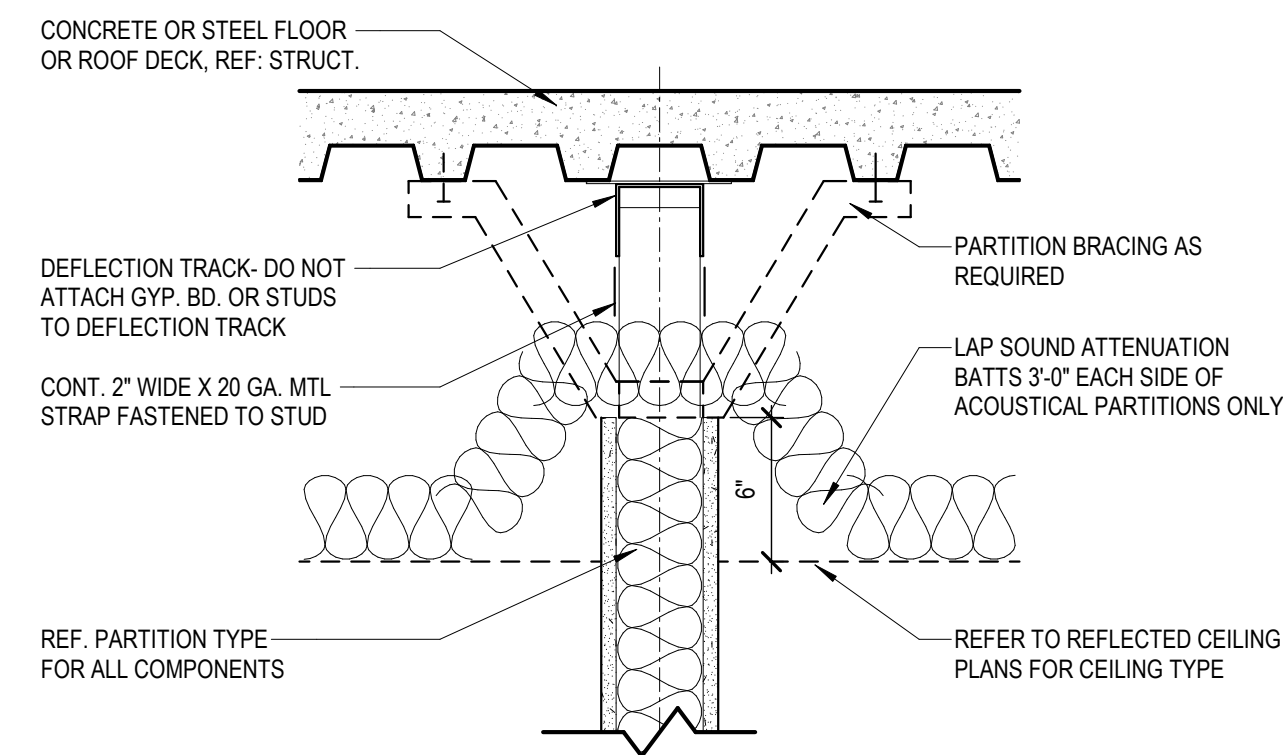
GENERAL AND CODE
INFORMATION

EDITORS NOTE:
1. IF THIS DETAIL IS USED
COORDINATE STUD DEPTH
AND PLATE.



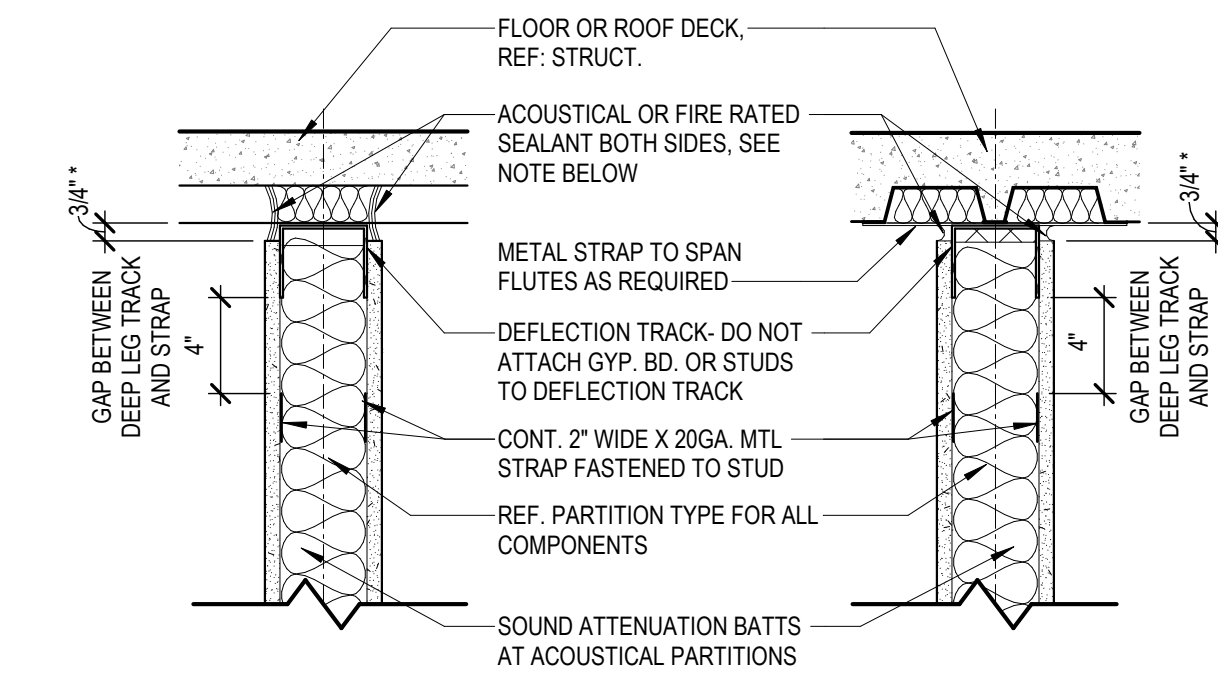
PARTITION - FREE STANDING SUPPORT

20 HEAD "9"
SCALE: 1 1/2" = 1'-0"



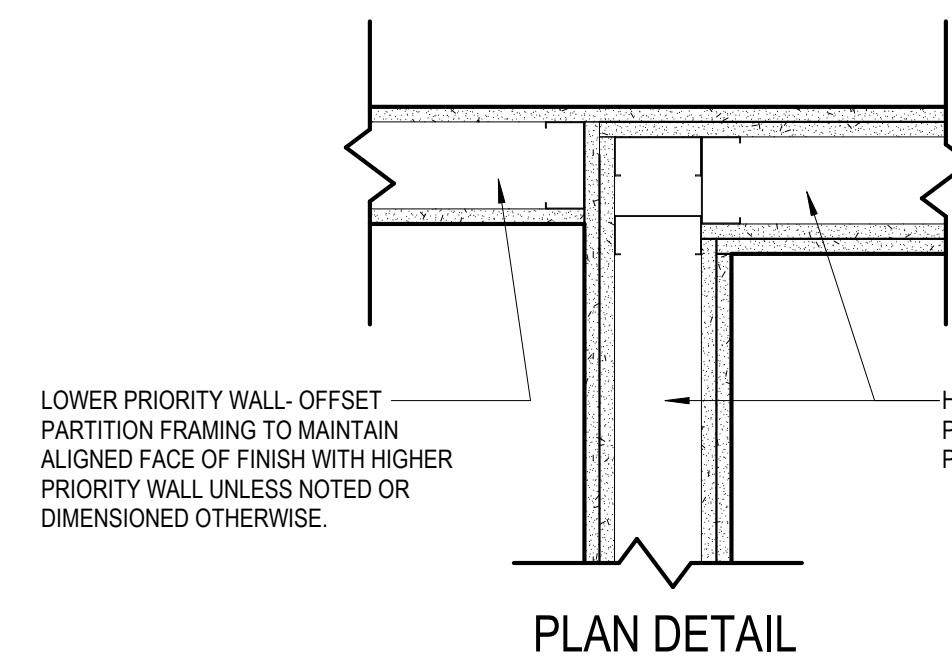
PARTITION TERMINATED ABOVE CEILING - ACOUSTIC AND NON-ACOUSTIC

16 HEAD "3"
SCALE: 1 1/2" = 1'-0"



PARTITION TO METAL DECK

15 HEAD "1"
SCALE: 1 1/2" = 1'-0"

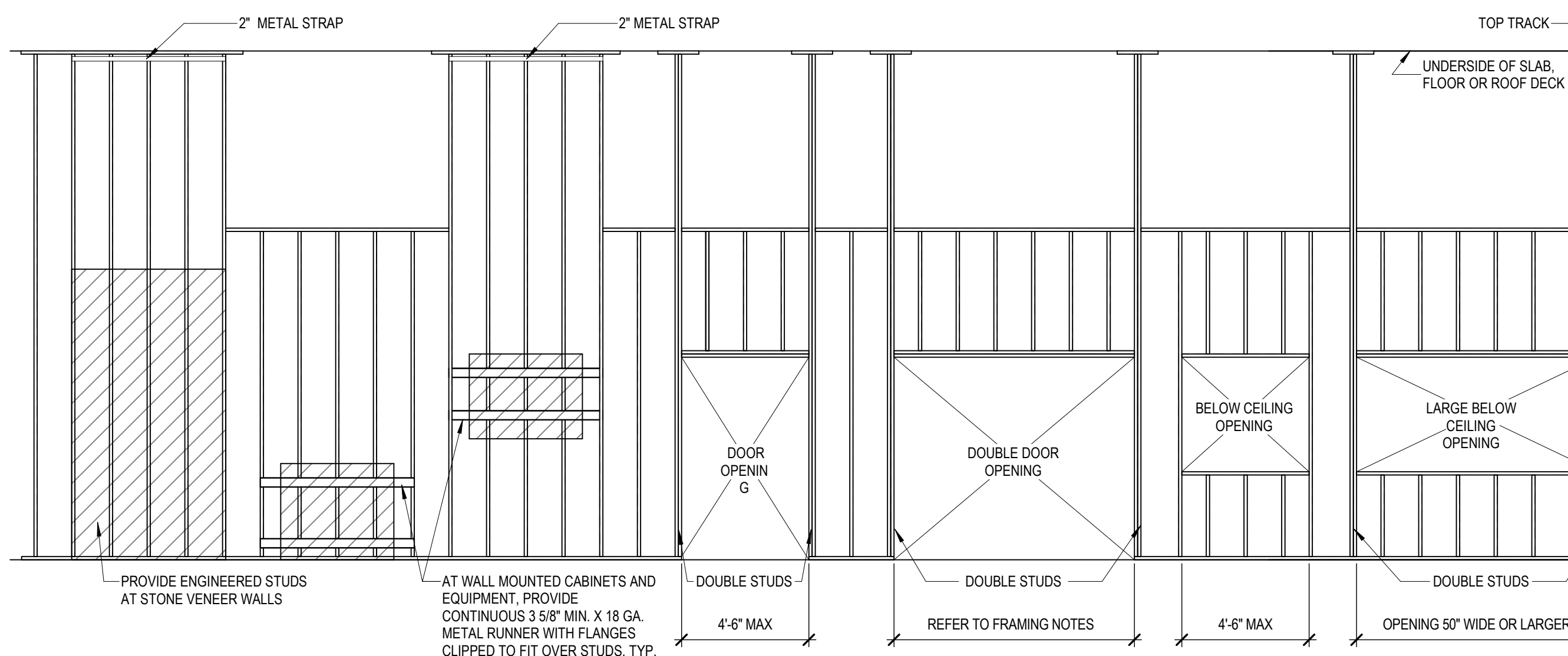


PARTITION PRIORITY

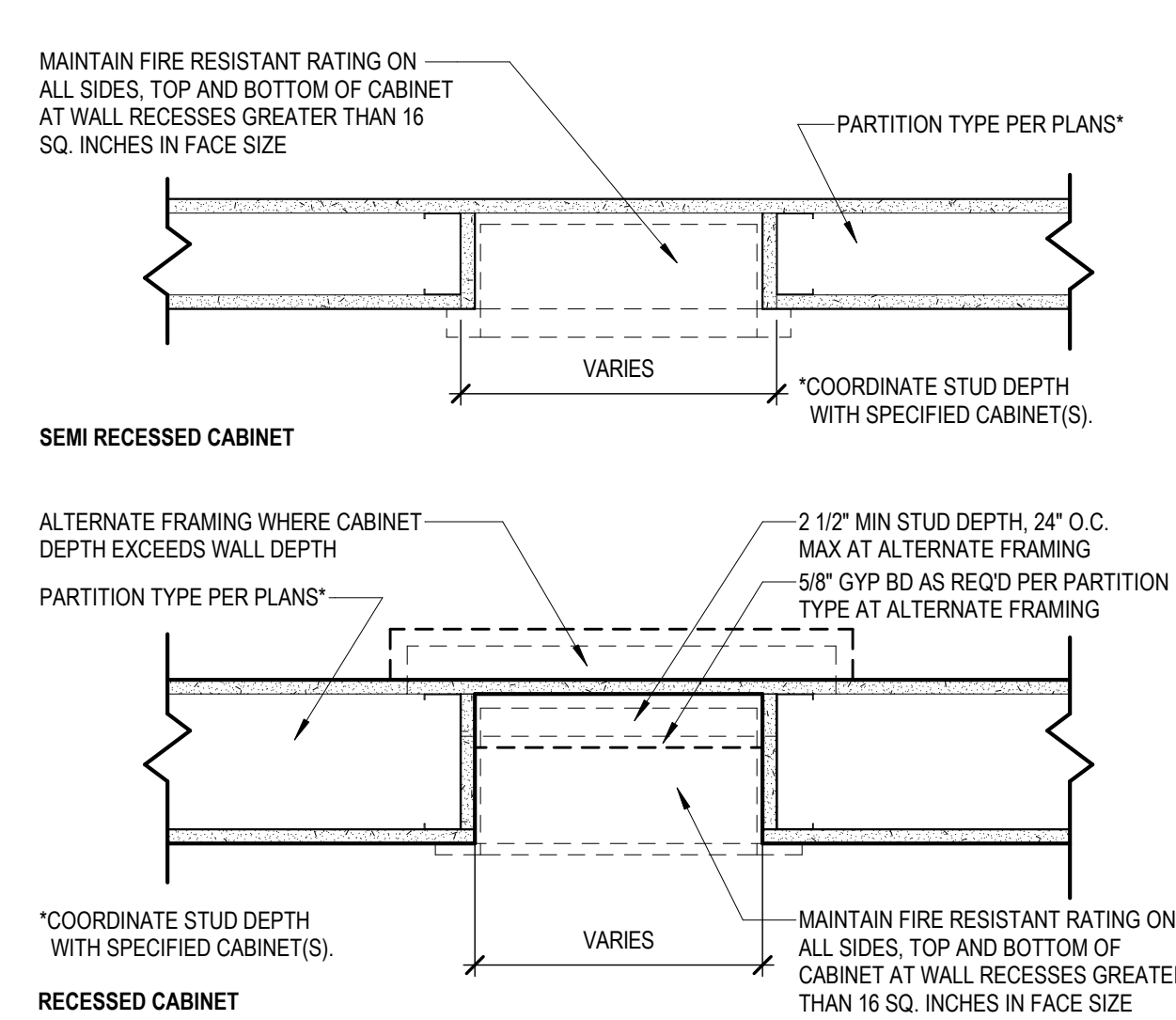
2 HR. RATED FIRE AND SMOKE PARTITION	PRIORITY 1 - HIGHEST
2 HR. RATED SHAFTWALL	PRIORITY 2
1 HR. RATED FIRE AND SMOKE PARTITION	PRIORITY 3
1 HR. RATED SHAFTWALL	PRIORITY 4
1 HR. RATED PARTITION	PRIORITY 5
NON-RATED PARTITION TO DECK	PRIORITY 6
NON-RATED PARTITION 6' ABOVE CEILING	PRIORITY 7
NON-RATED PARTITION TO CEILING	PRIORITY 8 - LOWEST

*ACOUSTICAL PARTITIONS TAKE PRIORITY OVER NON-ACOUSTICAL PARTITIONS OF SAME FIRE AND/OR SMOKE RATING

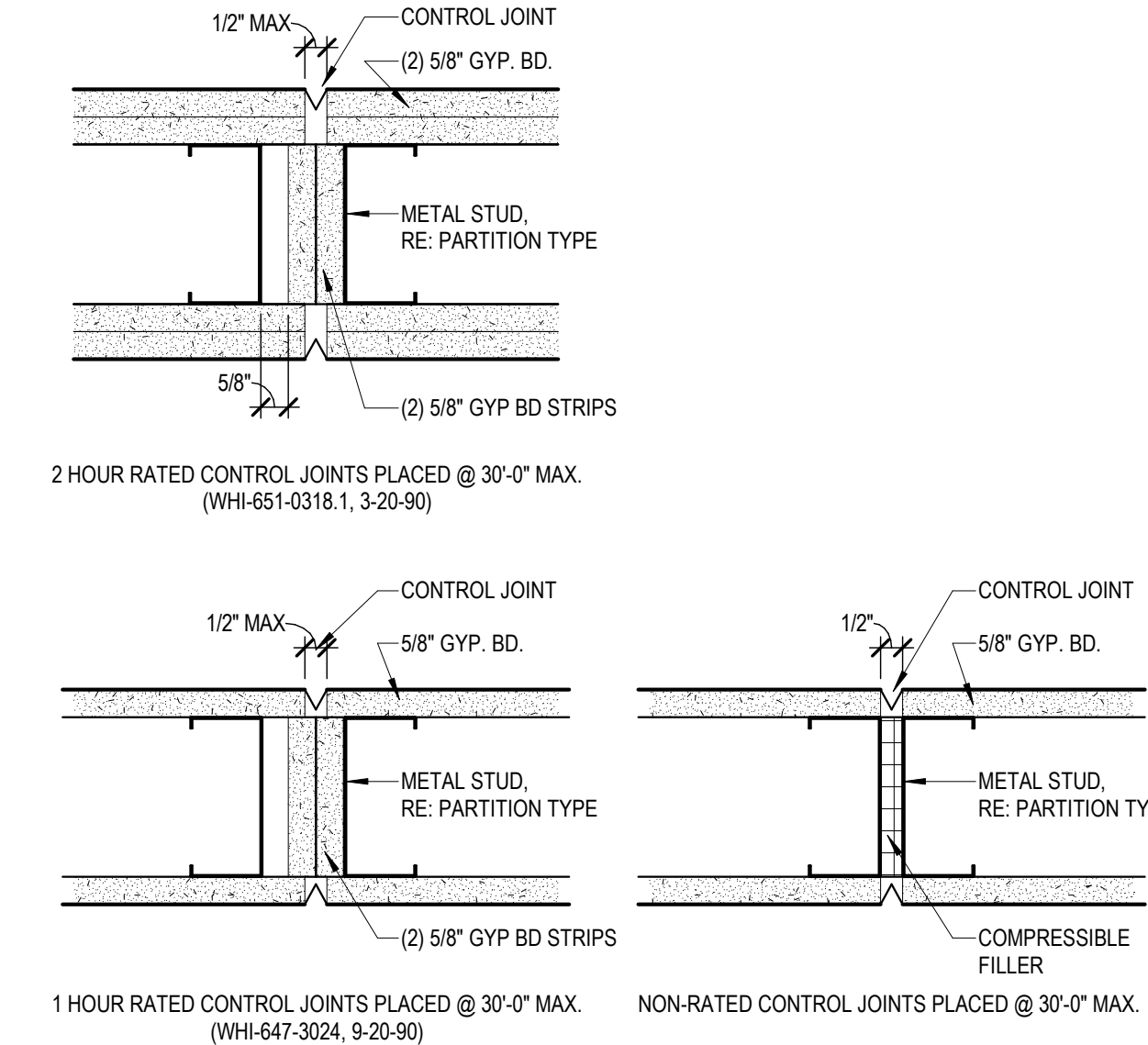
14 WALL PRIORITY LEGEND
SCALE: 1 1/2" = 1'-0"



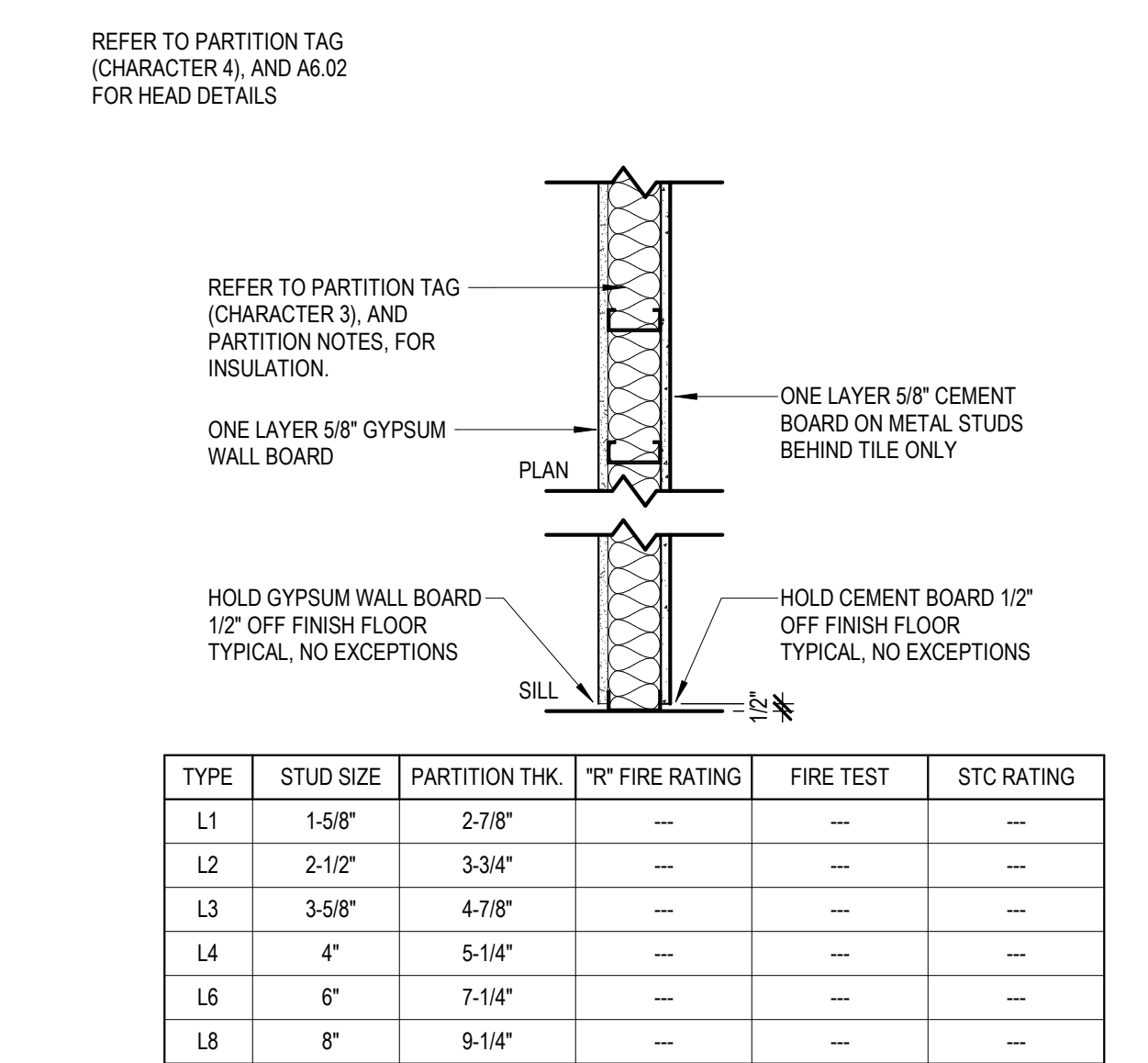
1 PARTITION FRAMING DETAILS
SCALE: 1/4" = 1'-0"



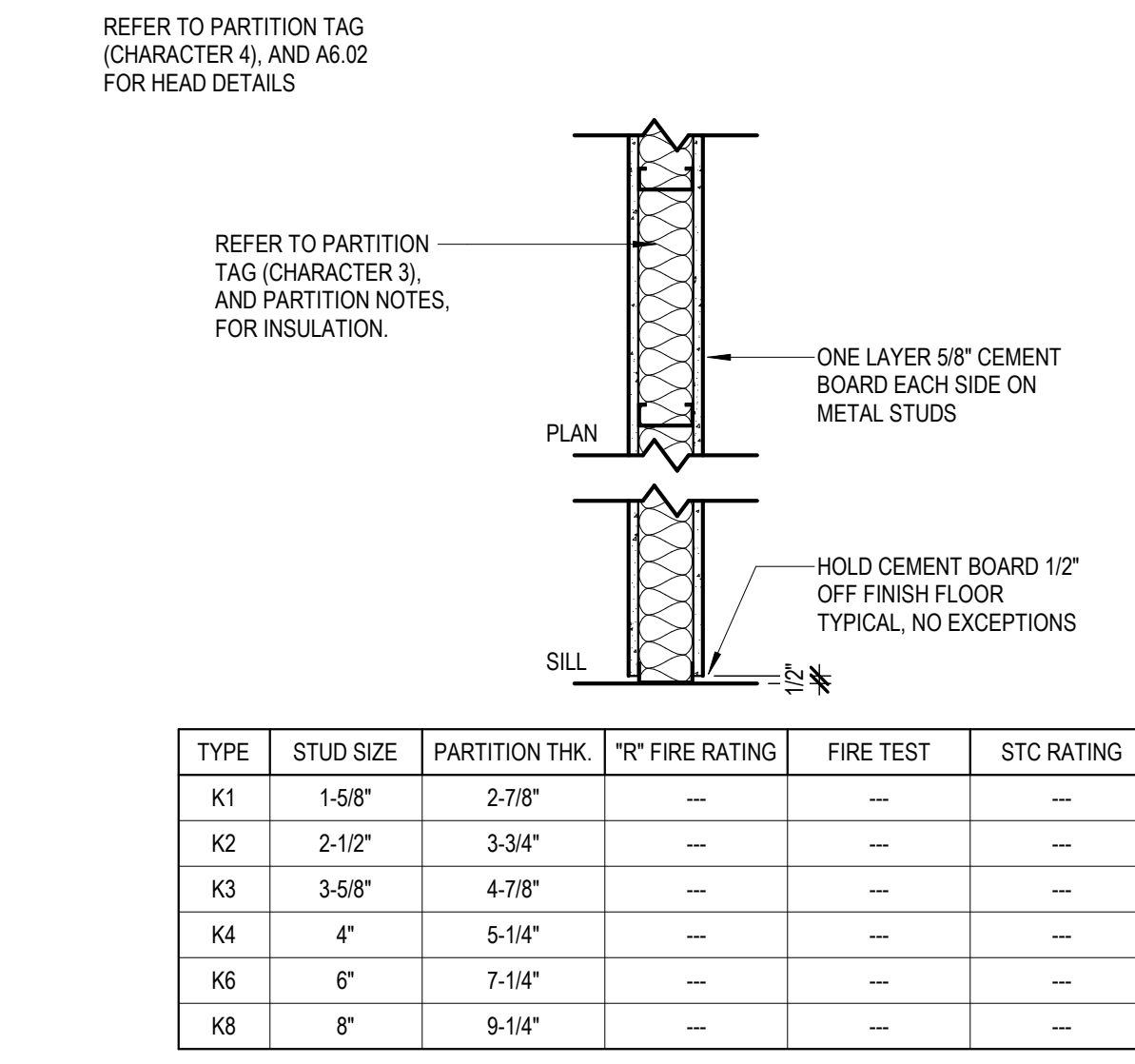
12 RECESSED WALL CABINET ALT.
SCALE: 1 1/2" = 1'-0"



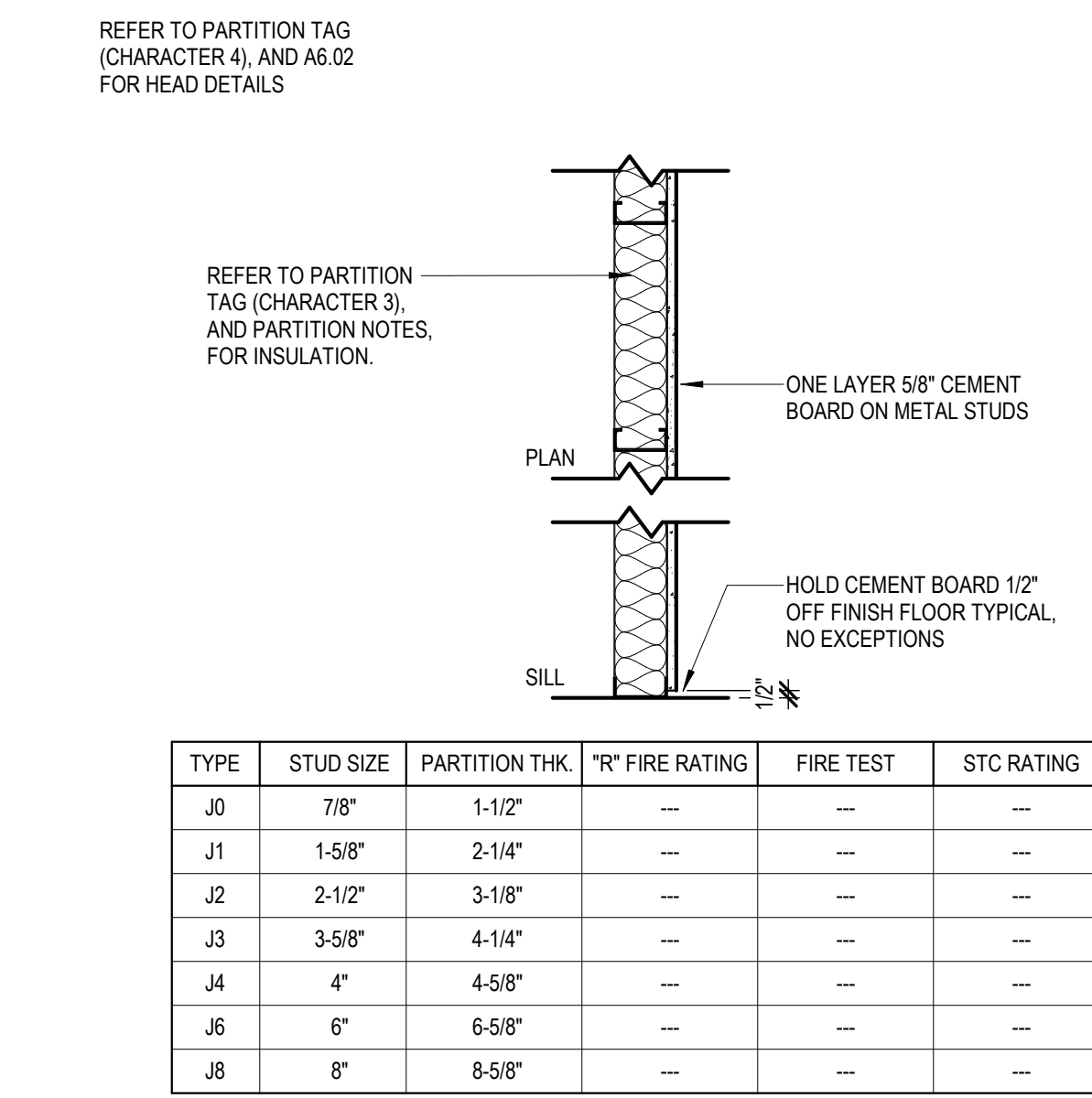
11 CONTROL JT AT GYPSUM BD
SCALE: 3" = 1'-0"



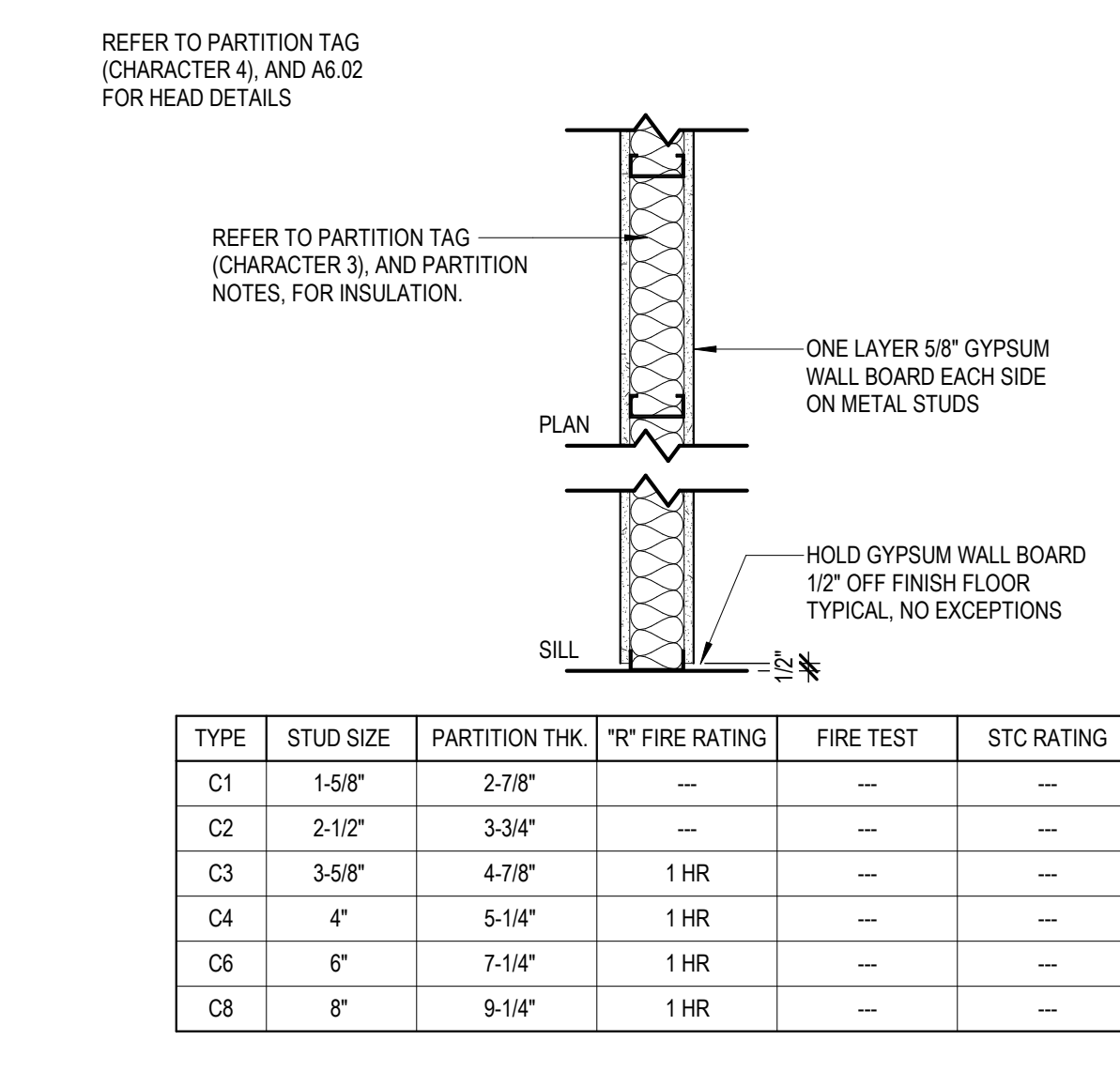
10 PARTITION TYPE - L
SCALE: 1" = 1'-0"



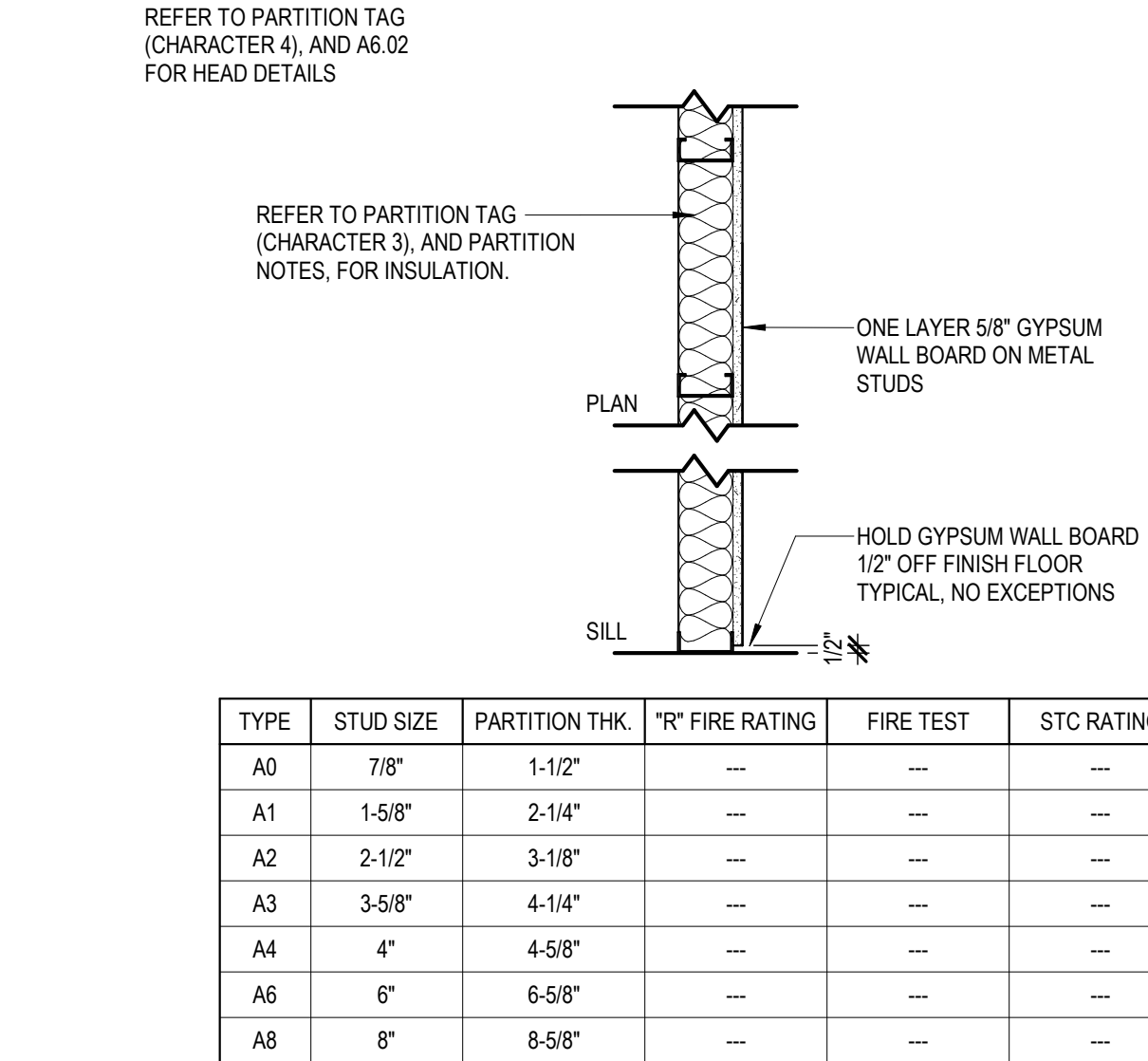
8 PARTITION TYPE - K
SCALE: 1" = 1'-0"



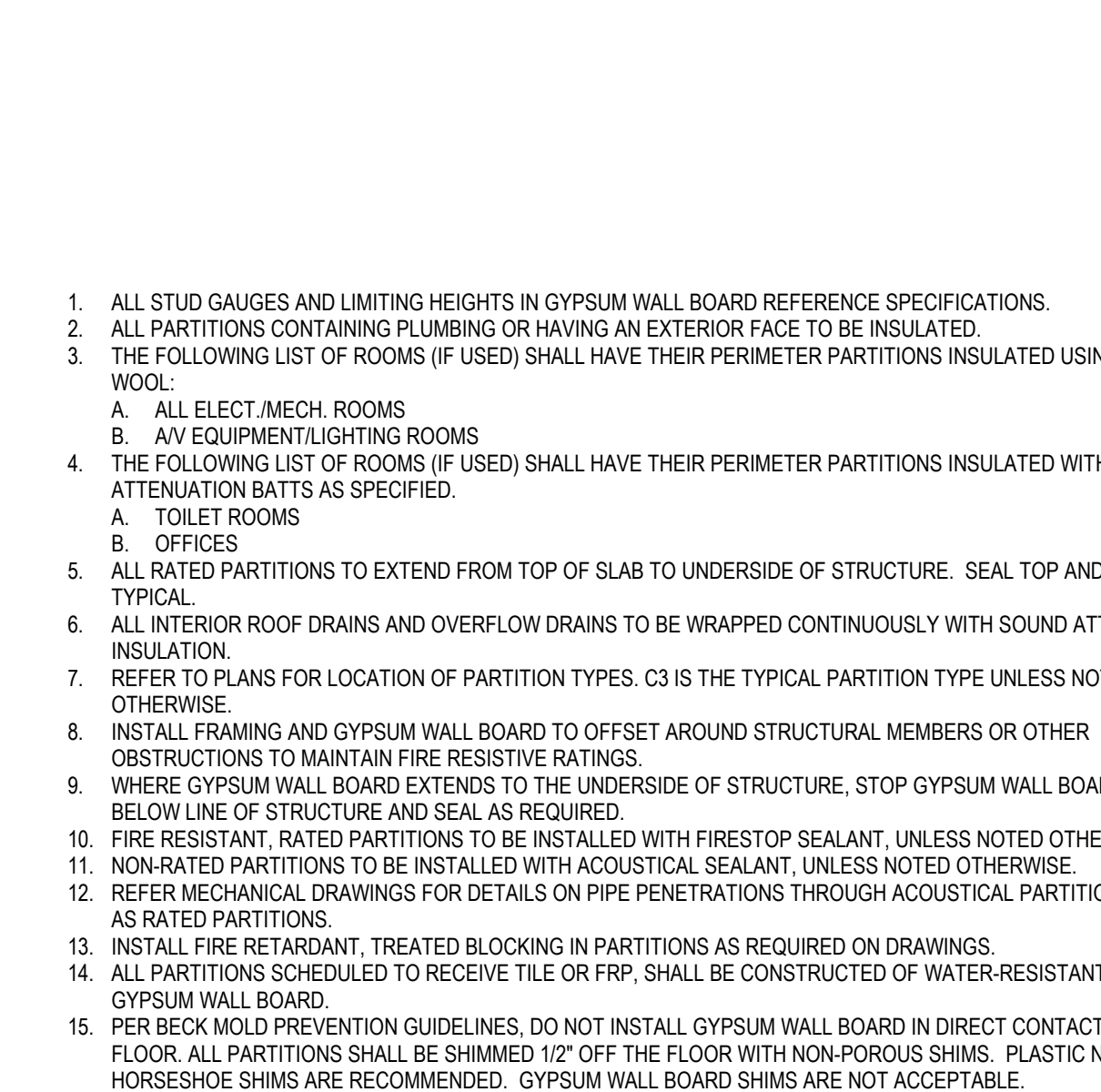
7 PARTITION TYPE - J
SCALE: 1" = 1'-0"



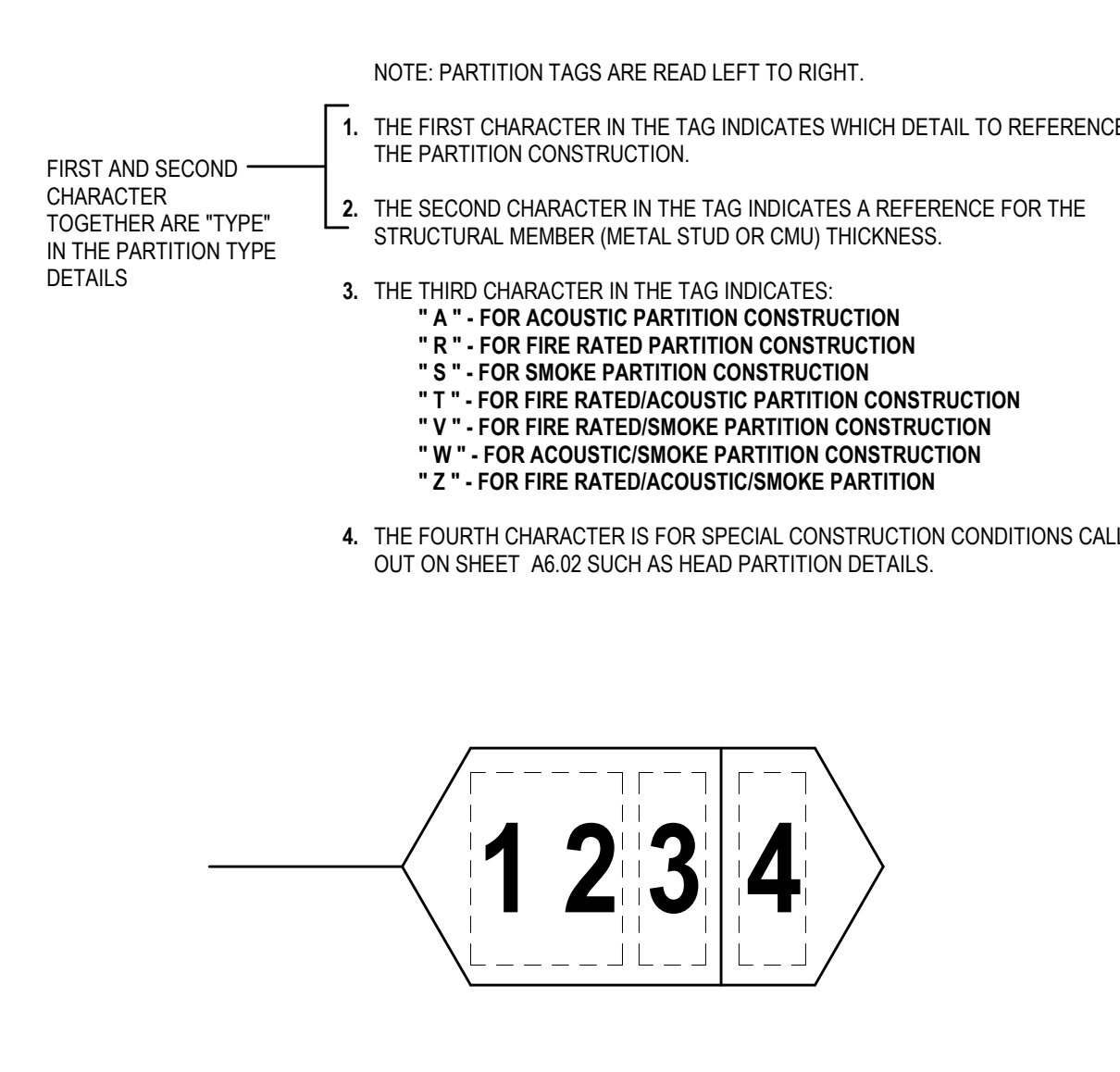
6 PARTITION TYPE - C
SCALE: 1" = 1'-0"



4 PARTITION TYPE - A
SCALE: 1" = 1'-0"



2 GENERAL PARTITION NOTES
SCALE: 1" = 1'-0"



FRAMING NOTES:

- REFER TO SPECS FOR STUD GAGE REQUIREMENTS UNLESS NOTED OTHERWISE.
- ALL STUDS ARE SPACED 16" O.C. MAX.
- DOUBLE STUDS AT SIDES OF OPENINGS SHOULD NOT BE CUT FOR DUCTWORK OR OTHER SYSTEMS.
- SIZE OF FRAMED OPENING TO BE COORDINATED WITH REQUIRED OPENING.
- GYPSUM BOARD PANELS MUST BE FASTENED @ 12" O.C. MAX. TO STUDS AND RUNNER TRACK AROUND OPENINGS.

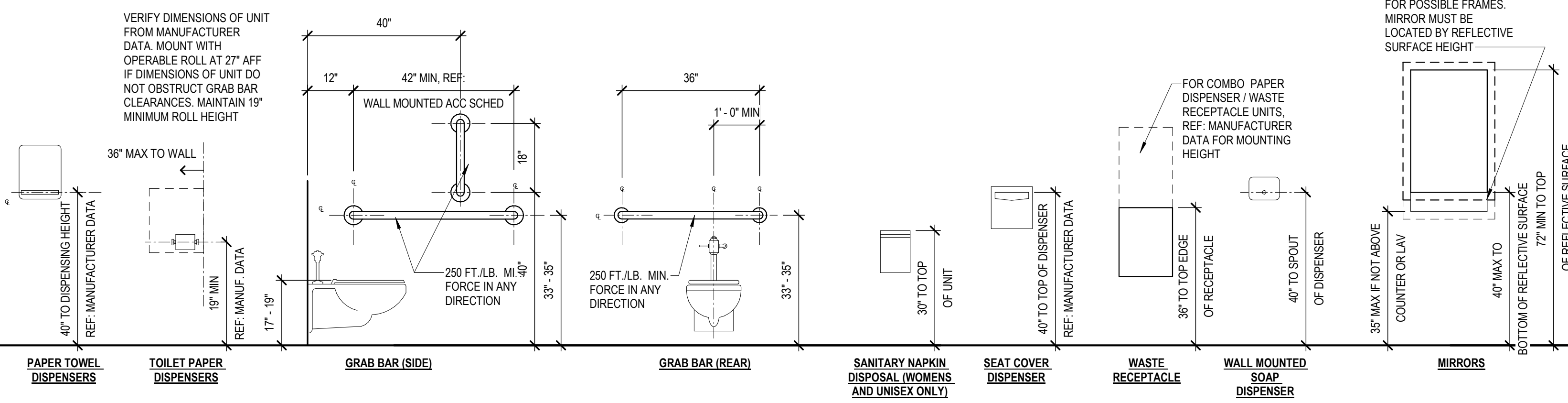
FOR ROUGH OPENINGS OVER 50" - 74" WIDE:
JAMB: INSTALL TWO BOXED STUDS (MIN 14 GA) AT EACH JAMB. EXTEND JAMB STUDS TO UNDERSIDE OF OVERHEAD STRUCTURE AND ATTACH. SCREW VERTICAL STUDS AT JAMBS TO JAMB ANCHOR CLIPS ON DOOR FRAME.

HEADER: INSTALL BOXED STUD HEADER (MIN 16 GA). SECURE BOX HEADER TO JAMB STUDS. INSTALL RUNNER TRACK SECTION FOR CRIPPLE STUDS AT HEAD AND SECURE TO JAMB STUDS. INSTALL CRIPPLE STUDS AT HEAD ADJACENT TO EACH JAMB STUD, WITH A MINIMUM OF 1/2" CLEARANCE FROM JAMB, TO ALLOW FOR INSTALLATION OF CONTROL JOINT IN FINISHED ASSEMBLY.

FOR OPENINGS OVER 74" WIDE & ALL LEAD-LINED DOORS:
JAMB: INSTALL TWO BOXED STUDS (MIN 14 GA) AT EACH JAMB. EXTEND JAMB STUDS TO UNDERSIDE OF OVERHEAD STRUCTURE AND ATTACH. SCREW VERTICAL STUDS AT JAMBS TO JAMB ANCHOR CLIPS ON DOOR FRAME.

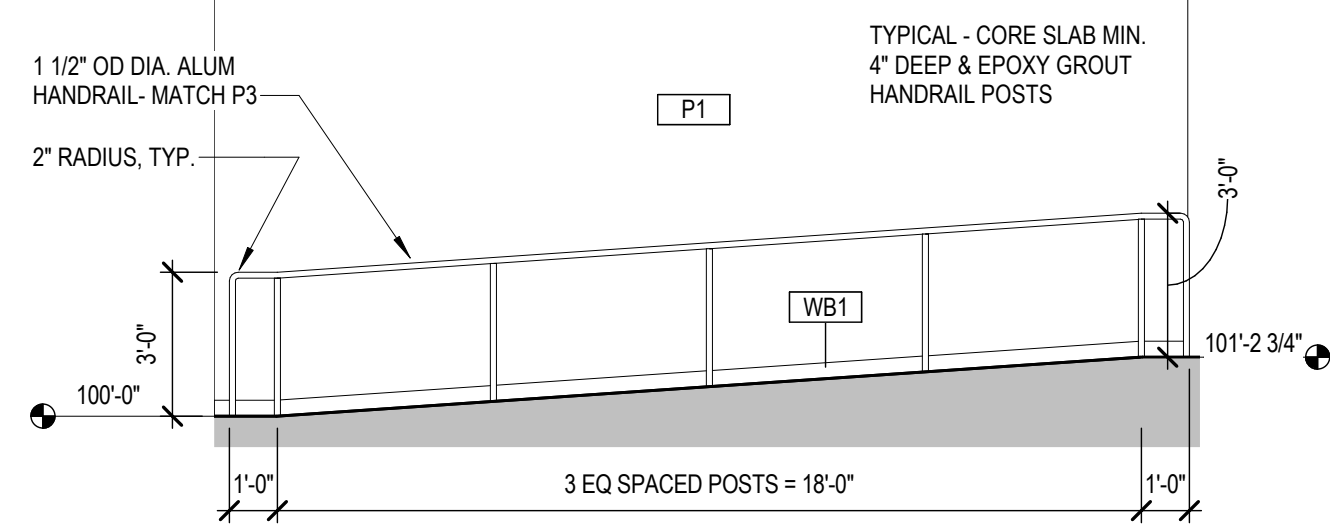
HEADER: INSTALL BOX STUD HEADER (MIN 14 GA) OR C4x4.5 STEEL CHANNEL. SECURE BOX HEADER TO JAMB STUDS. INSTALL RUNNER TRACK SECTION FOR CRIPPLE STUDS AT HEAD AND SECURE TO JAMB STUDS. INSTALL CRIPPLE STUDS AT HEAD ADJACENT TO EACH JAMB STUD, WITH A MINIMUM OF 1/2" CLEARANCE FROM JAMB STUD, TO ALLOW FOR INSTALLATION OF CONTROL JOINT IN FINISHED ASSEMBLY.

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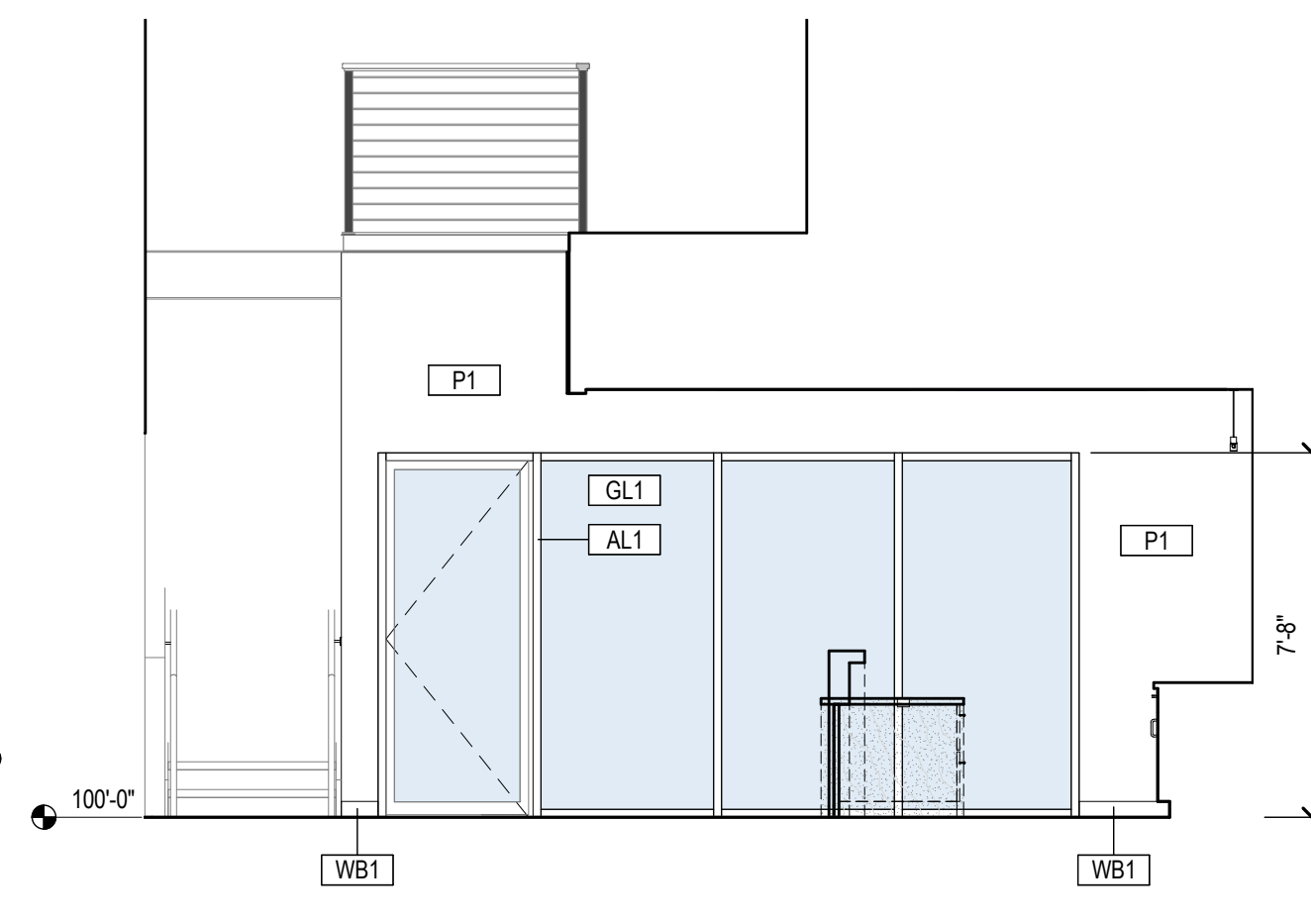


12 MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"

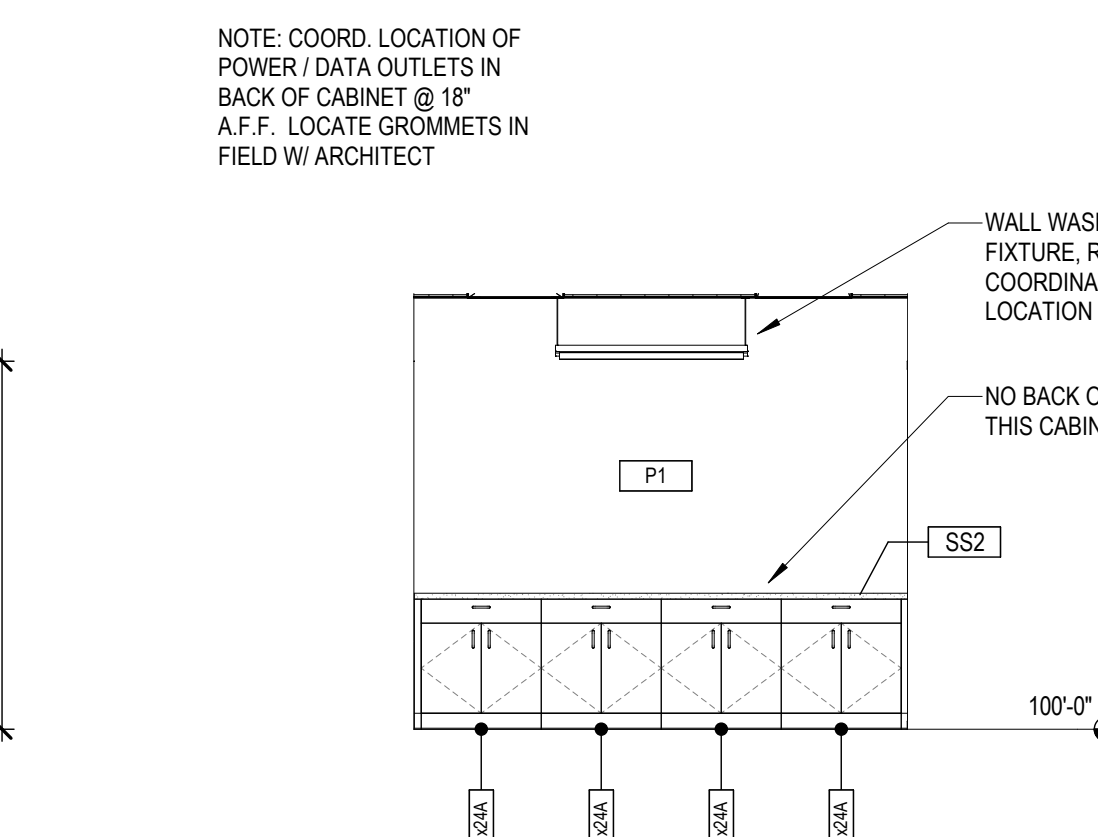
Mark	Description	Manufacturer	Model	Comments
GB1	GRAB BAR-HORIZONTAL 36"	BOBRICK	B6806v36	
GB2	GRAB BAR-HORIZONTAL 42"	BOBRICK	B6806v42	
HS1	SOAP DISPENSER			OWNER PROVIDED, OWNER INSTALLED
M1	MIRROR, 3' H X 2' W	BOBRICK	B-165 2436	3' H X 2' W
ND1	NAPKIN DISPOSAL	BOBRICK	B-270	SURFACE-MOUNTED
PT2	PAPER TOWER DISPENSER			OWNER PROVIDED, OWNER INSTALLED
SC1	SEAT COVER DISPENSER	BOBRICK	B-4221	
TPS	TP DISPENSER	BOBRICK	B-2840	TOILET TISSURE DISPENSER W/ UTILITY SHELF
WR1	WASTE RECEPTACLE	BOBRICK	B-3644	



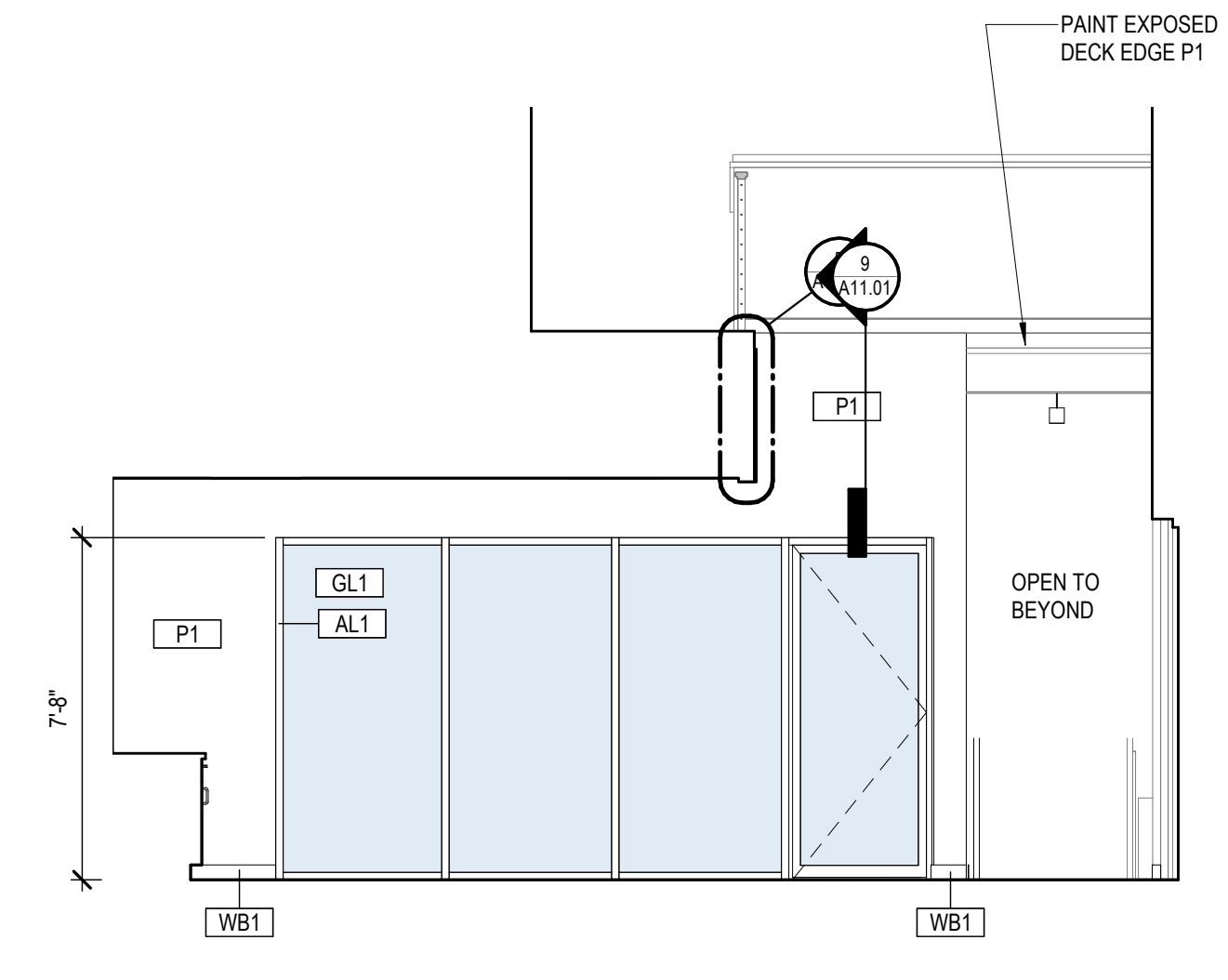
15 RAMP HANDRAIL ELEVATION
SCALE: 1/4" = 1'-0"



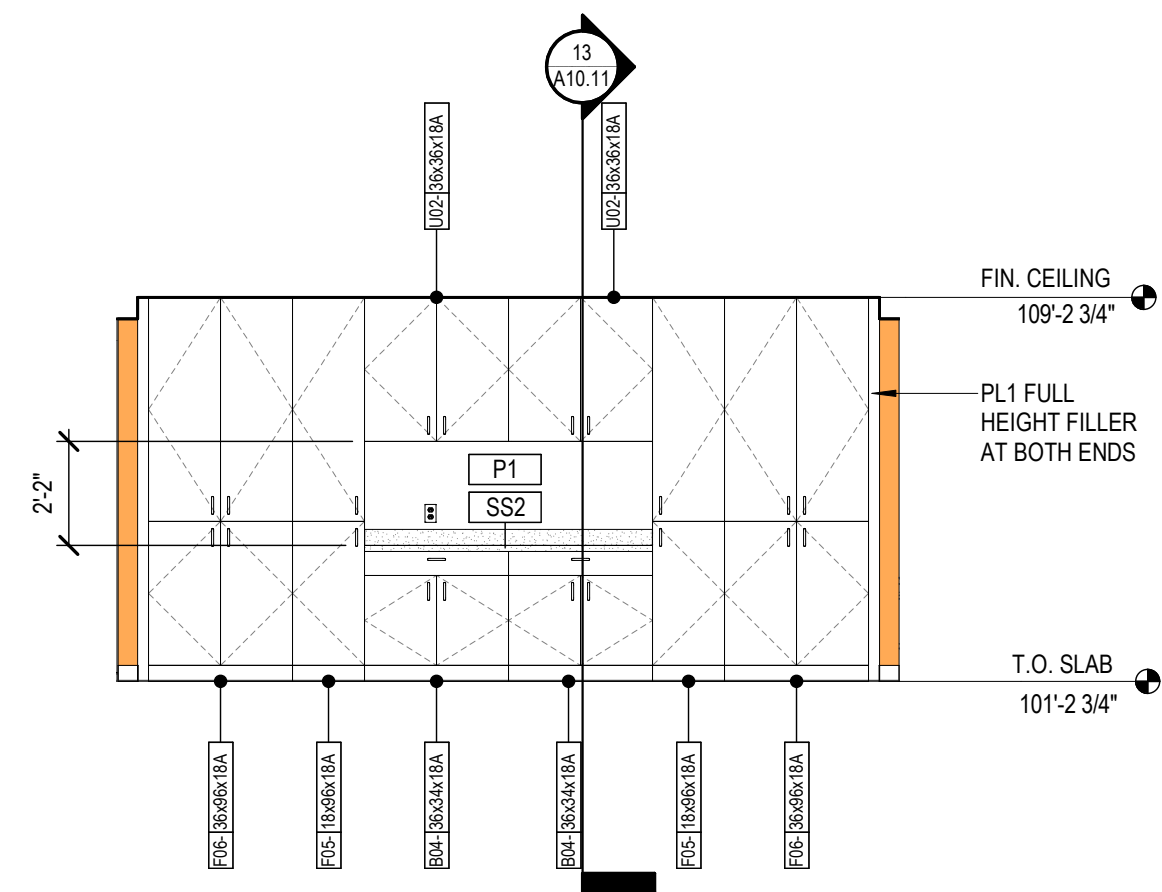
11 101 LOBBY N
SCALE: 1/4" = 1'-0"



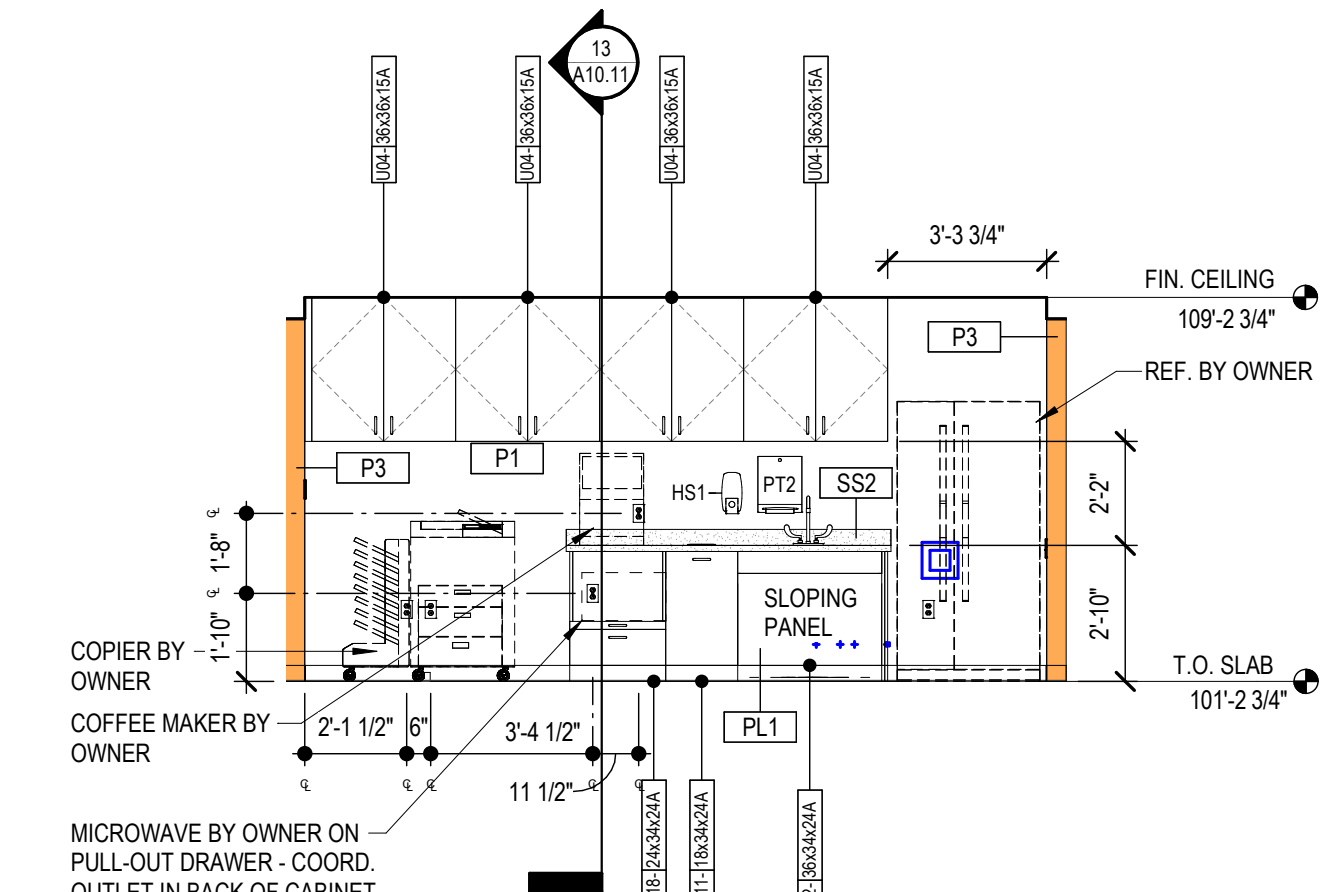
7 101 LOBBY E
SCALE: 1/4" = 1'-0"



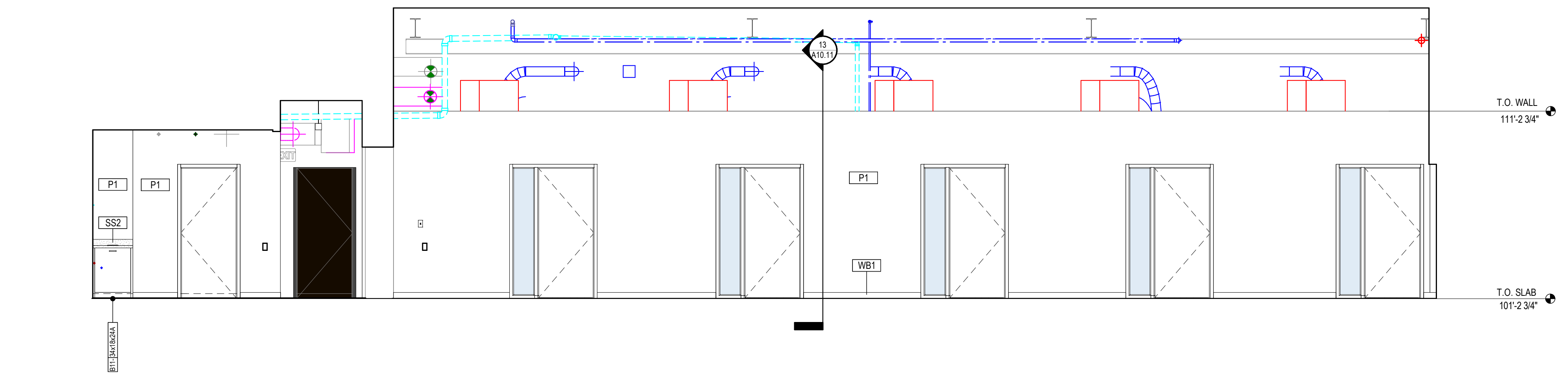
3 101 LOBBY S
SCALE: 1/4" = 1'-0"



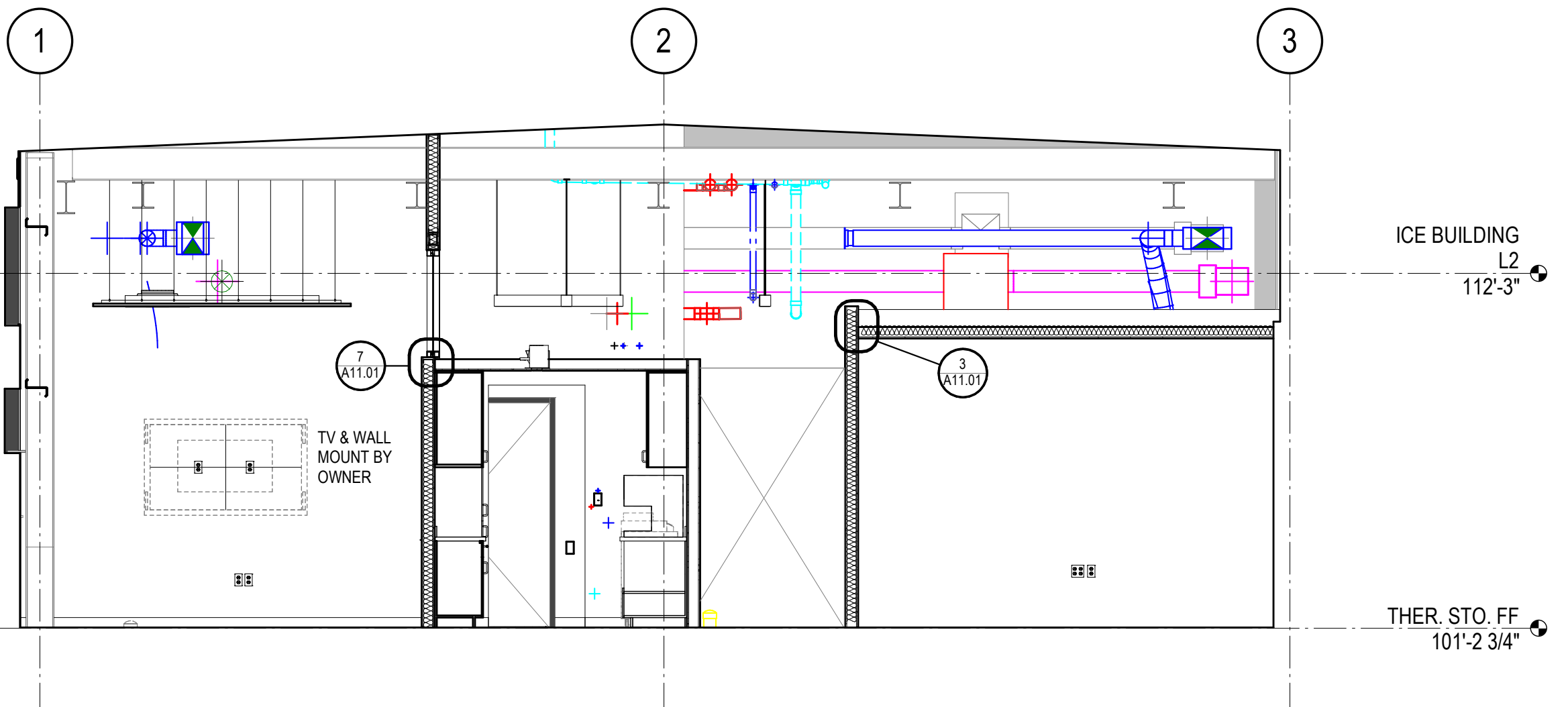
18 117 BREAKROOM N
SCALE: 1/4" = 1'-0"



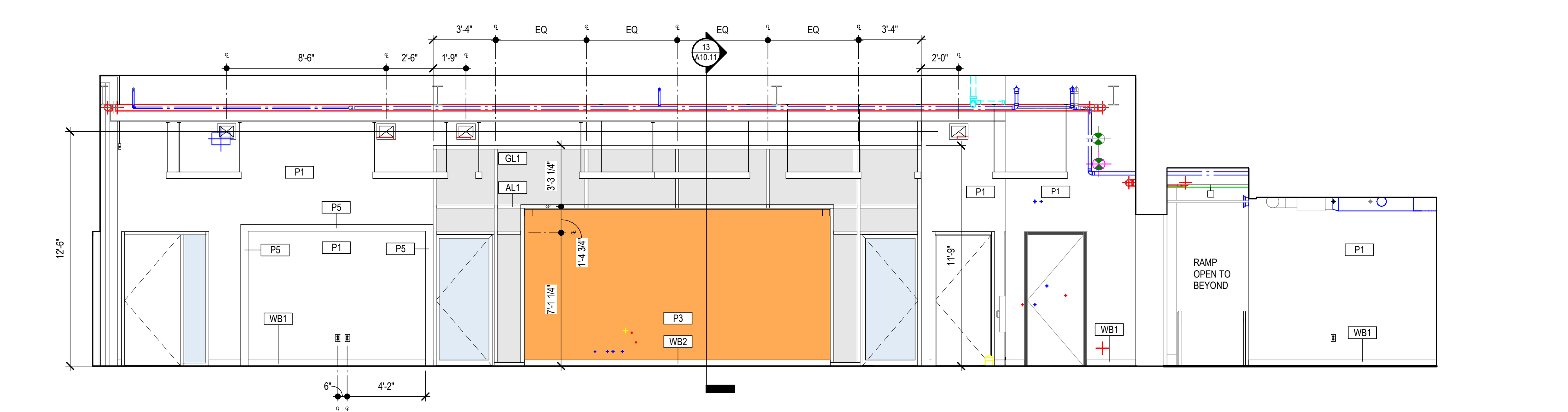
14 117 BREAKROOM S
SCALE: 1/4" = 1'-0"



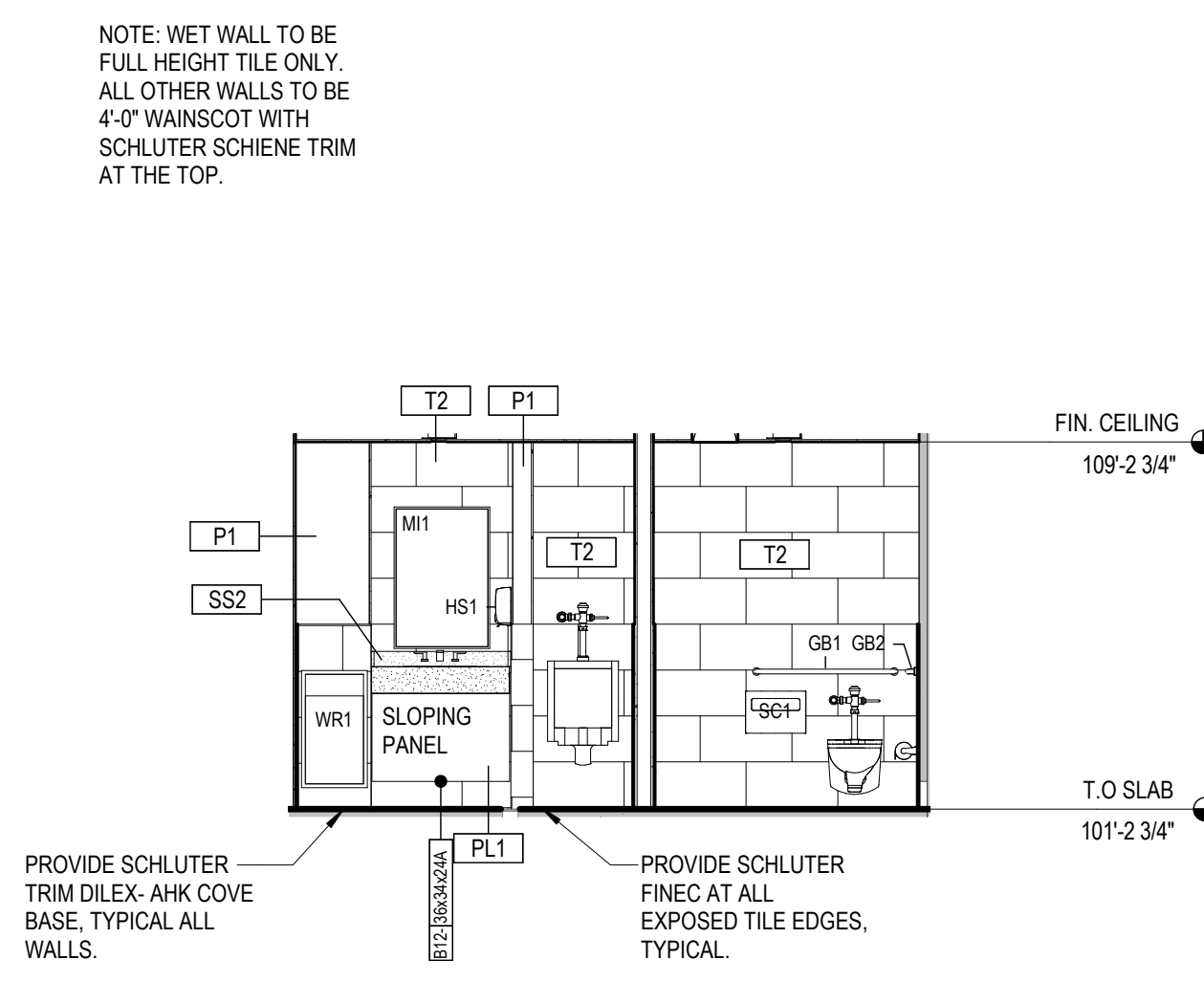
2 107 HALLWAY S
SCALE: 1/4" = 1'-0"



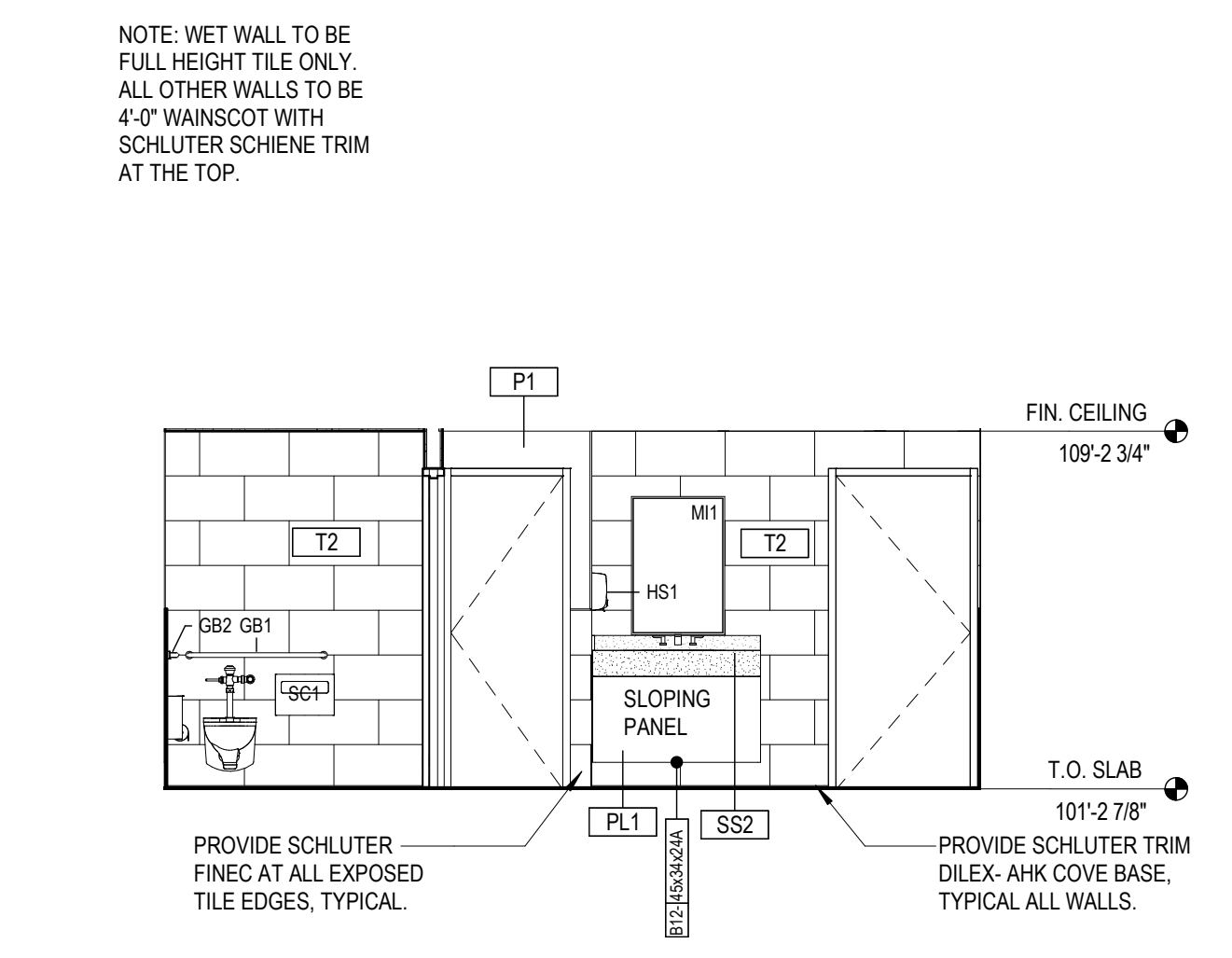
13 INTERIOR SECTION
SCALE: 1/4" = 1'-0"



1 107 HALLWAY E
SCALE: 1/4" = 1'-0"



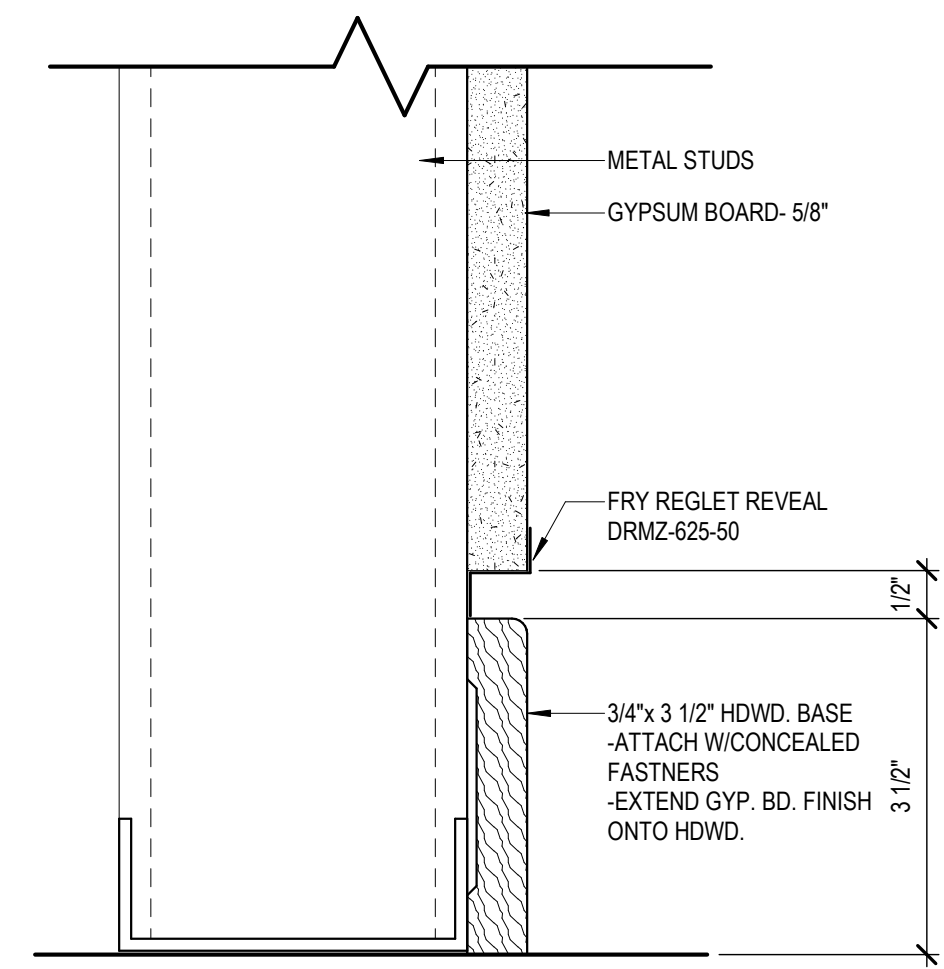
8 106 MENS E
SCALE: 1/4" = 1'-0"



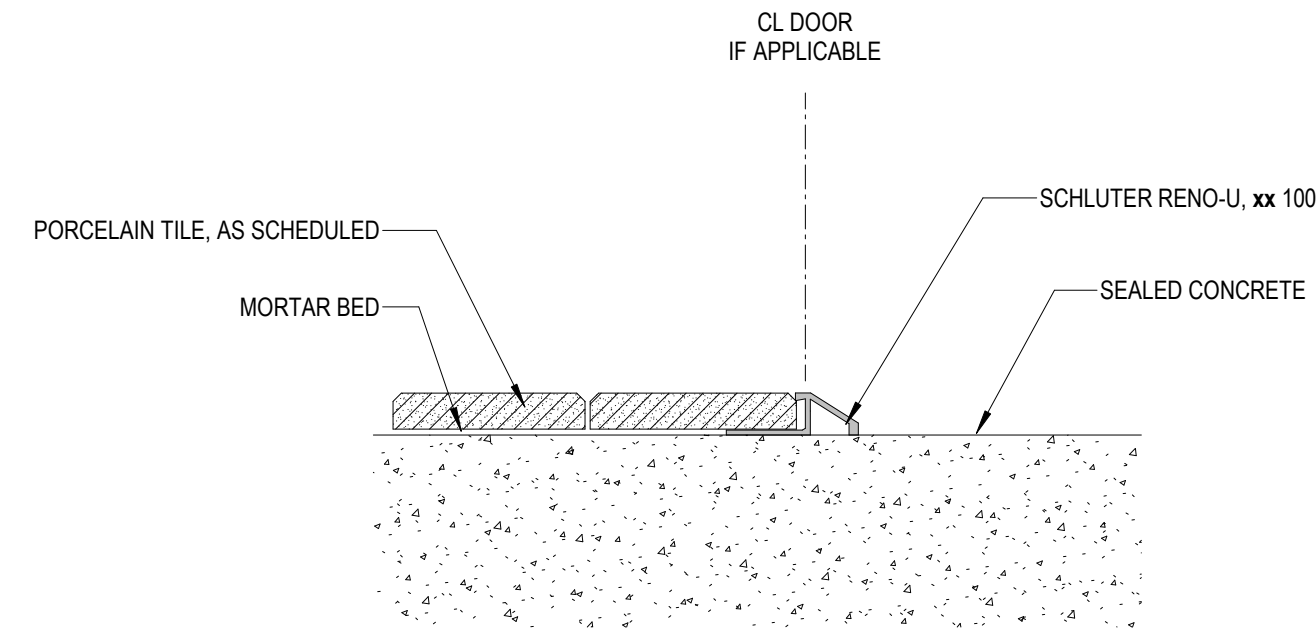
4 105 WOMEN W
SCALE: 1/4" = 1'-0"



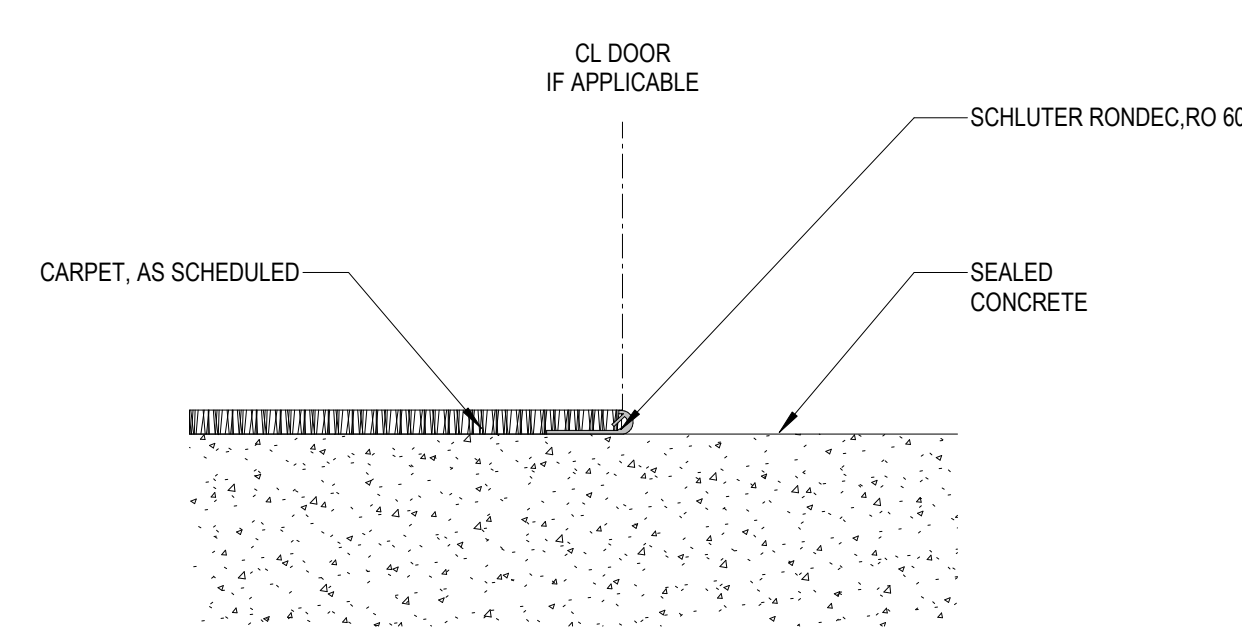
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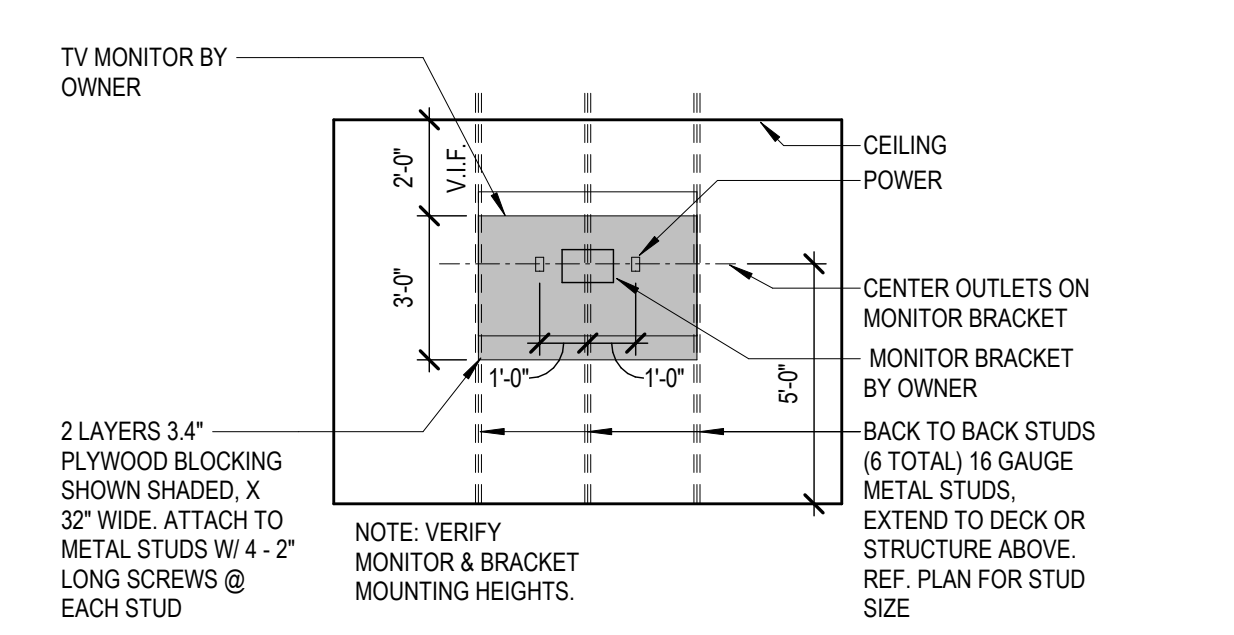
16 WALL BASE - WB2
SCALE: 6" = 1'-0"



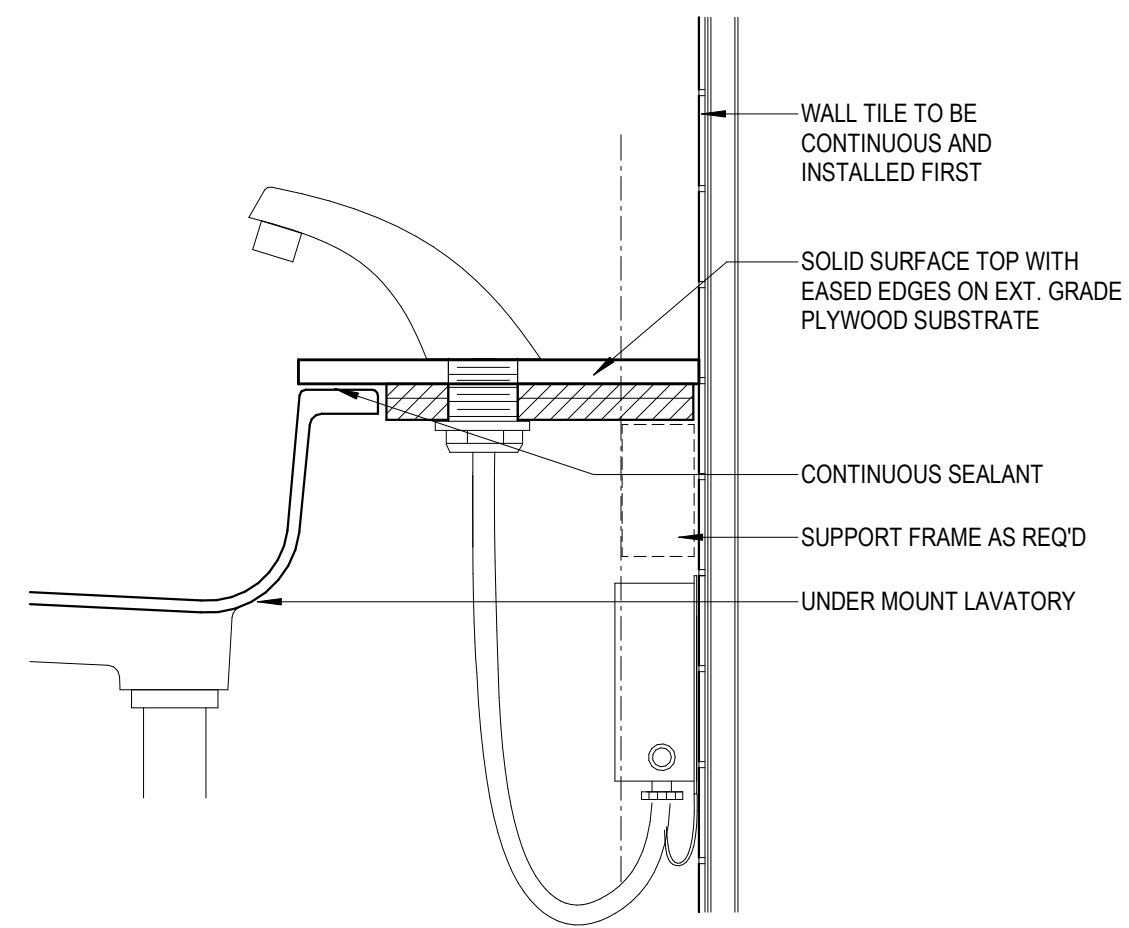
12 PORCELAIN TILE/ SEALED CONCRETE - TYP.
SCALE: 6" = 1'-0"



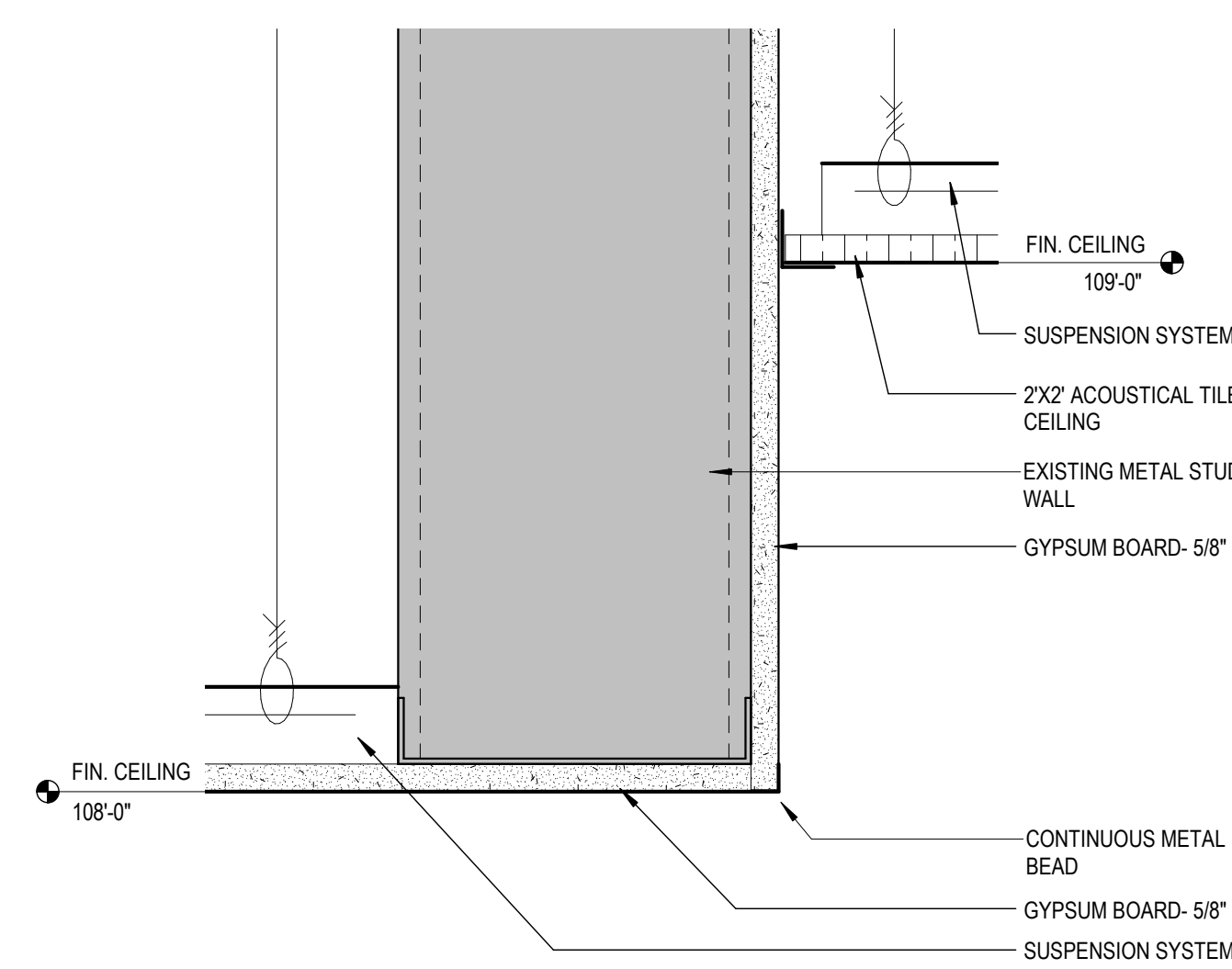
8 CARPET/ SEALED CONCRETE - METAL - TYP.
SCALE: 6" = 1'-0"



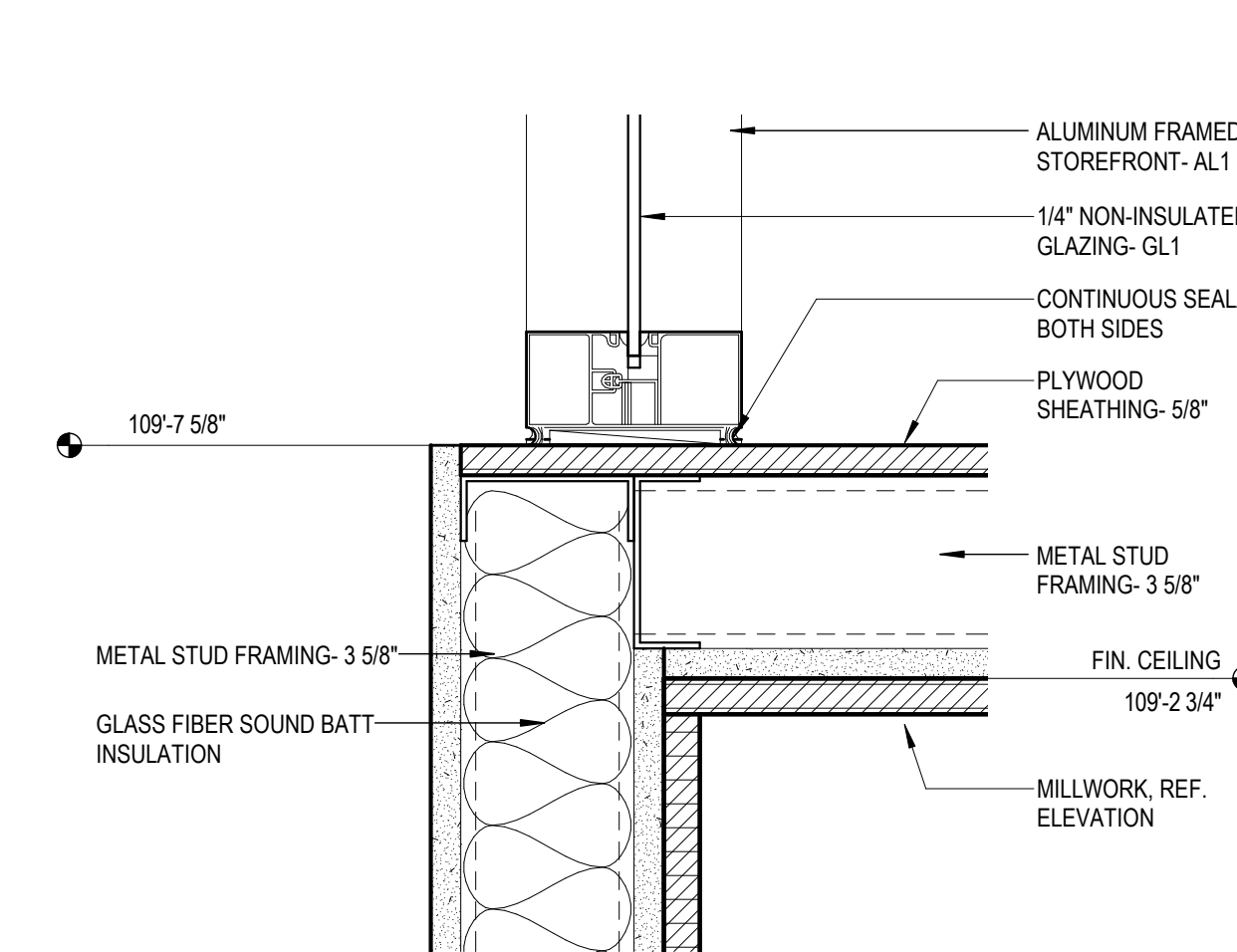
4 TYPICAL TV/MONITOR MOUNT
SCALE: 1/4" = 1'-0"



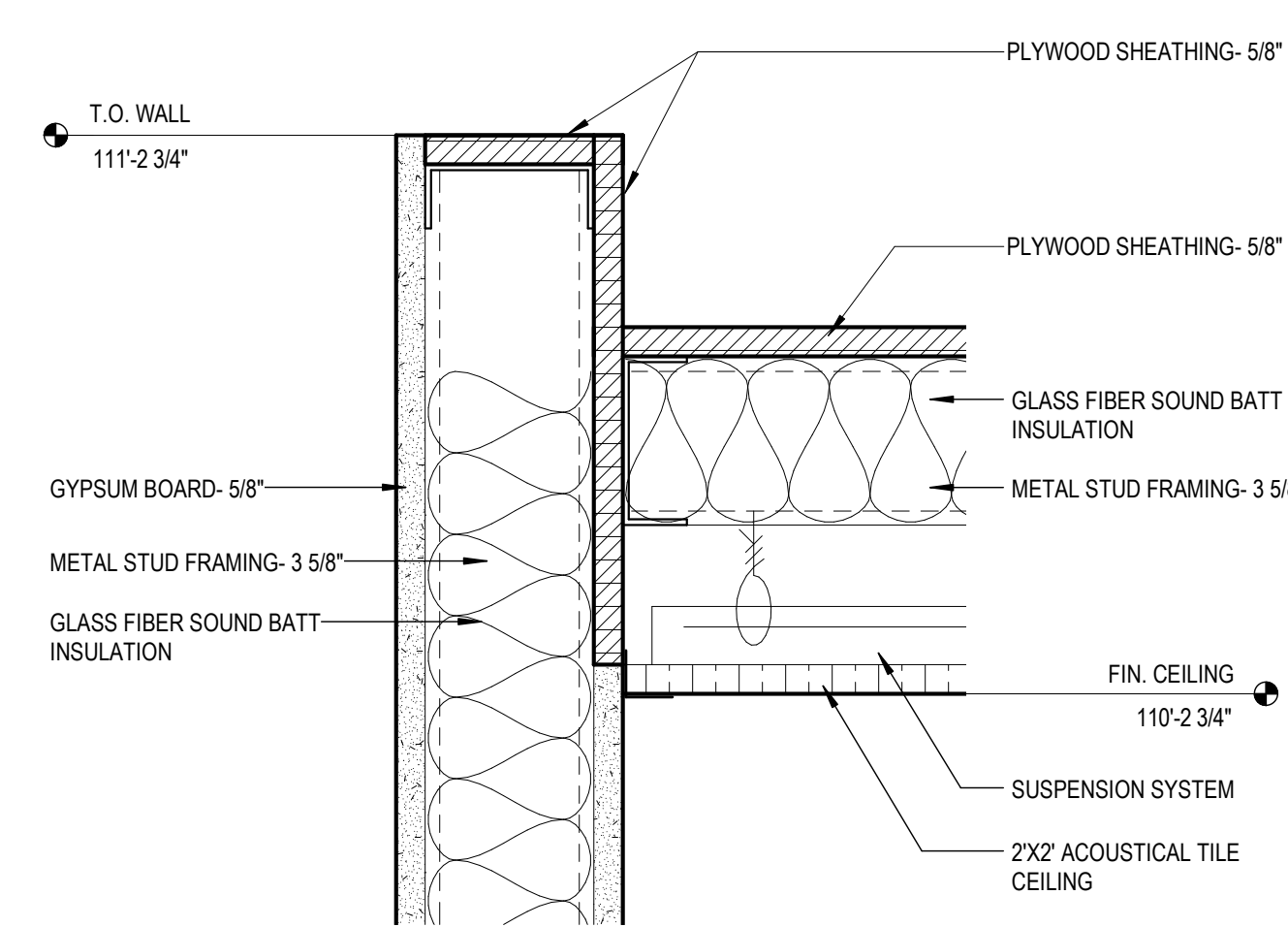
19 VANITY SECTION DETAIL
SCALE: 3" = 1'-0"



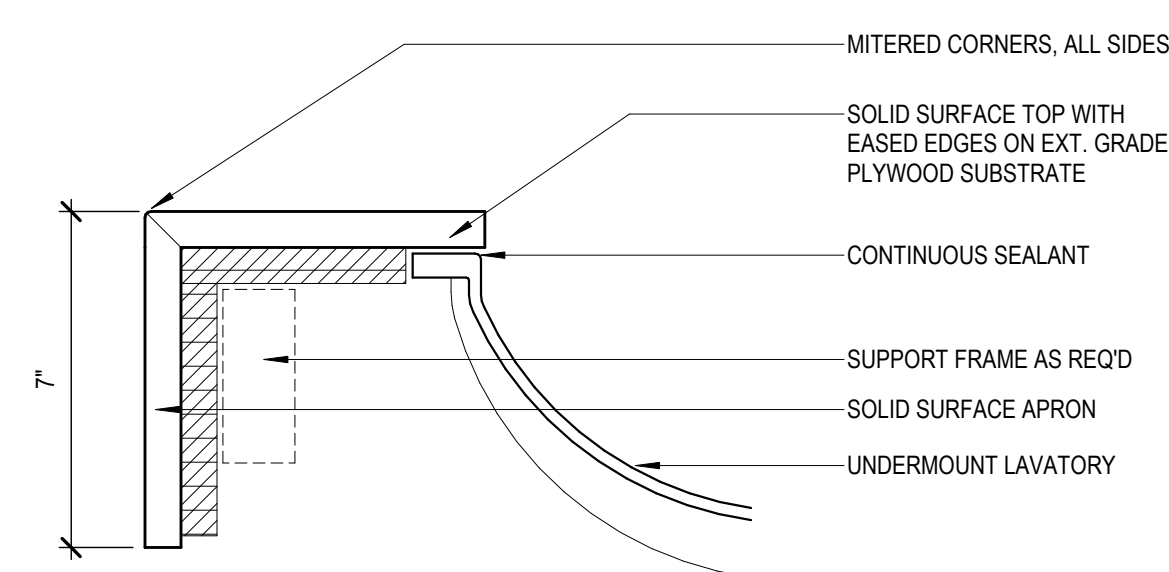
11 CEILING DETAIL
SCALE: 3" = 1'-0"



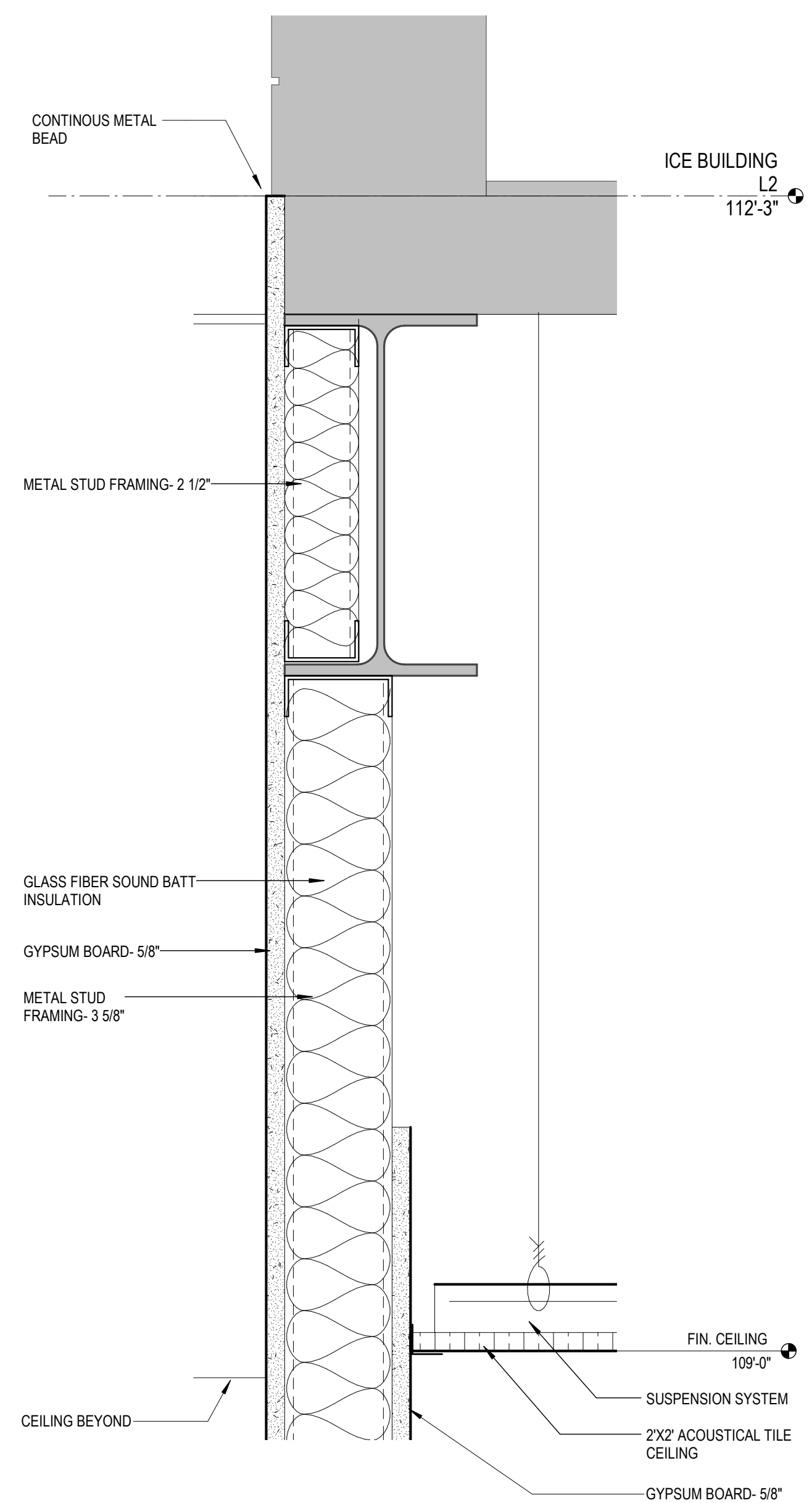
7 SECTION DETAIL
SCALE: 3" = 1'-0"



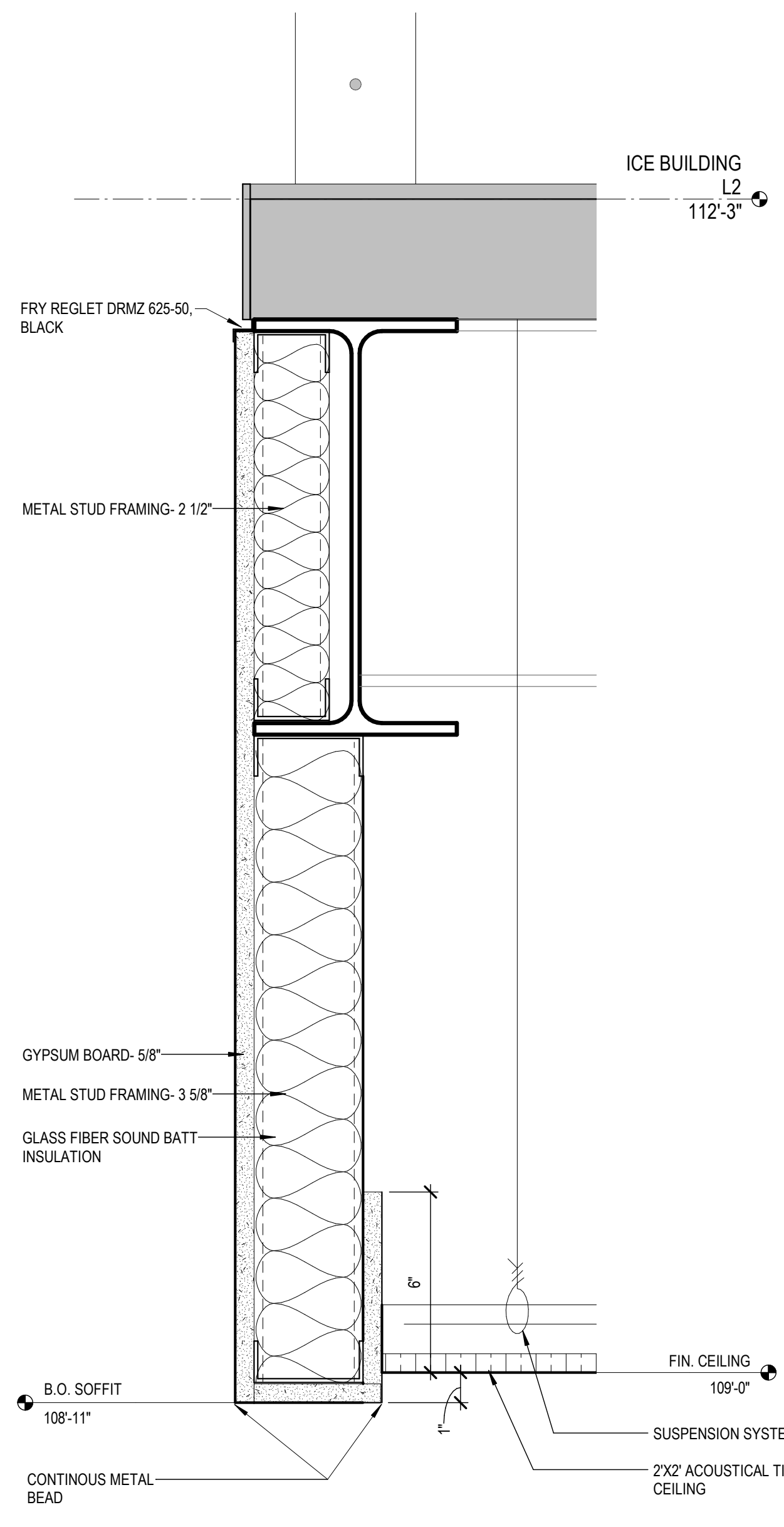
3 SECTION DETAIL
SCALE: 3" = 1'-0"



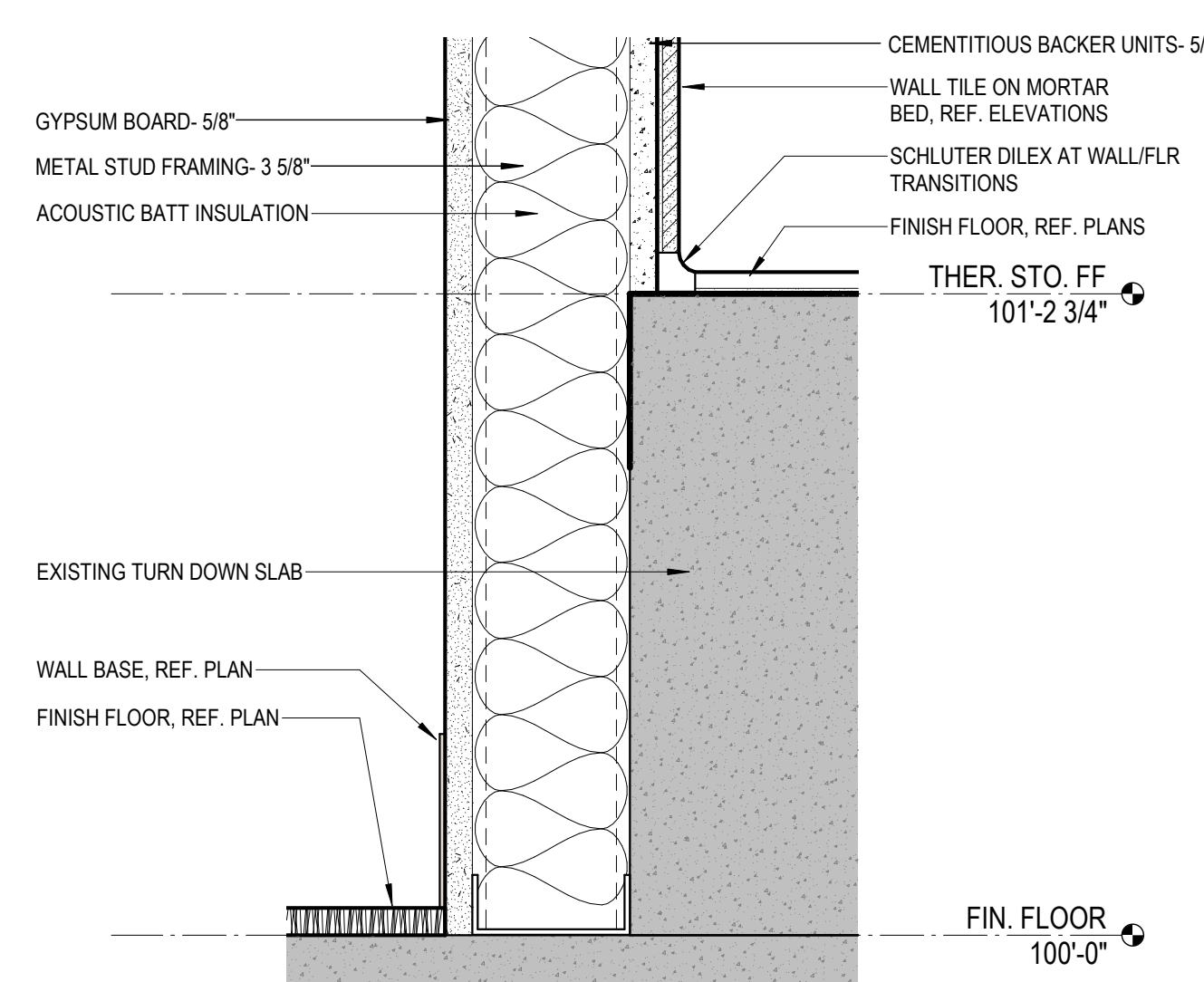
18 VANITY SECTION DETAIL
SCALE: 3" = 1'-0"



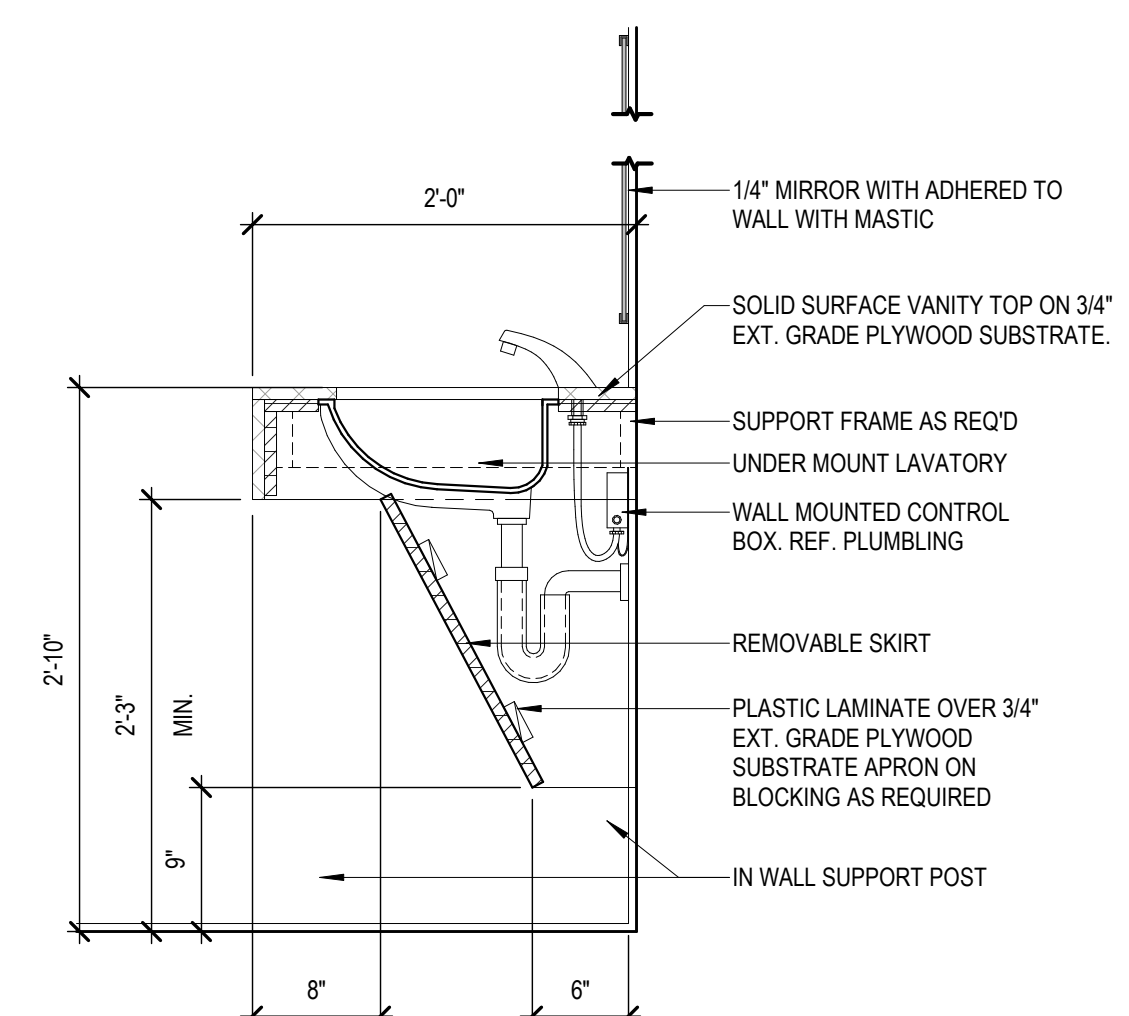
9 SECTION DETAIL
SCALE: 3" = 1'-0"



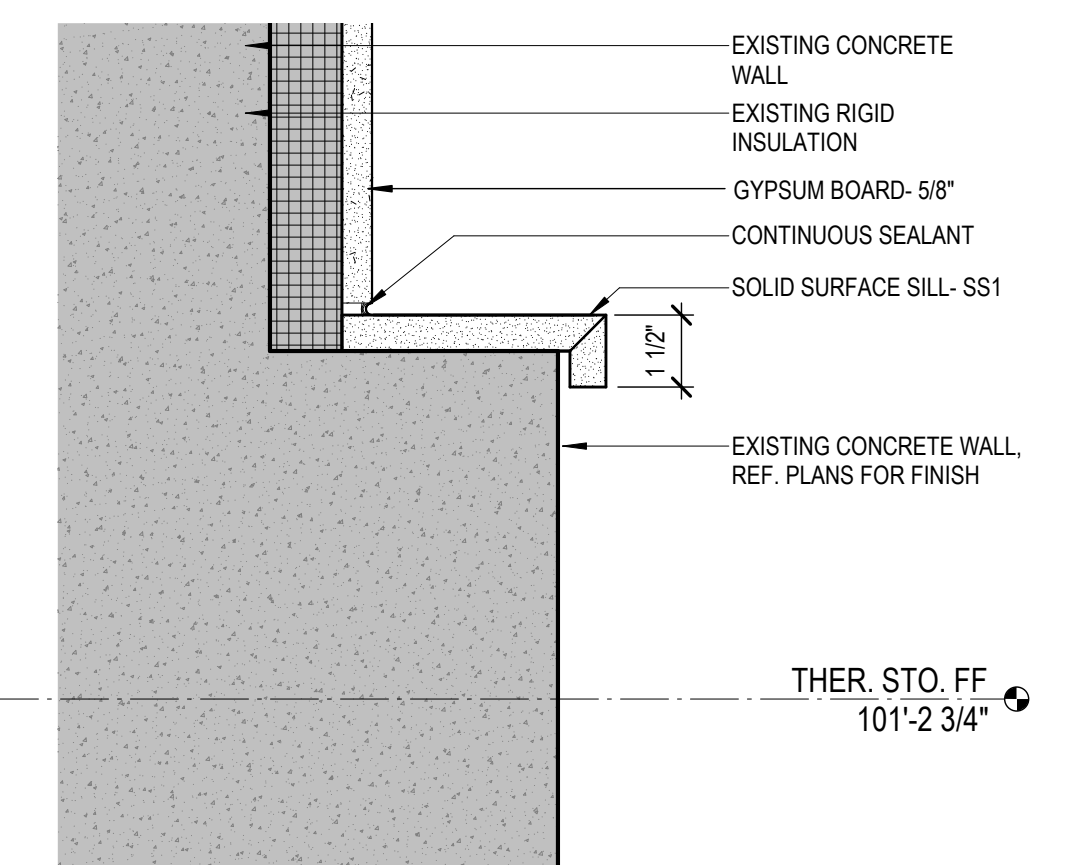
5 SECTION DETAIL
SCALE: 3" = 1'-0"



2 SECTION DETAIL
SCALE: 3" = 1'-0"



17 VANITY SECTION
SCALE: 1" = 1'-0"



1 LOW WALL SILL DETAIL
SCALE: 3" = 1'-0"

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INTERIOR DETAILS

HVAC PROJECT NOTES

- GENERAL NOTES FROM THIS LIST SHALL APPLY TO THE ENTIRE MECHANICAL DESIGN.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE LOCAL MECHANICAL CODE, THE LOCAL BUILDING CODES, ADA, OTHER AUTHORITIES HAVING JURISDICTION, AND ENERGY CONSERVATION CODE.
- COORDINATE WITH STRUCTURE AND OTHER DISCIPLINES.
- DRAWINGS ARE SCHEMATIC IN NATURE AND SHALL NOT BE SCALED. THE CONTRACTOR IS RESPONSIBLE FOR CREATING SHOP DRAWINGS AND FOR COORDINATING THE EXACT ROUTING OF ALL DUCTWORK AND PIPING WITH EXISTING FIELD CONDITIONS AND WITH OTHER TRADES.
- PROVIDE VOLUME DAMPER AT SPIN-IN CONNECTION OF DIFFUSER BRANCH INCLUDING THOSE CONNECTING TO THE BOTTOM OF MAIN TRUNK, WHERE VOLUME DAMPER IS ACCESSIBLE. PROVIDE YOUNG REGULATORS FOR ALL VOLUME DAMPERS ABOVE INACCESSIBLE CEILINGS UNLESS OTHERWISE NOTED. COORDINATE CEILING MOUNTED ADJUSTING PORTS WITH EXISTING CEILING ELEMENTS. LINE UP FOR VISUAL PURPOSES. PROVIDE PORT LOCATIONS TO ARCHITECT FOR APPROVAL.
- MAINTAIN MANUFACTURERS RECOMMENDED CLEARANCES ON ALL EQUIPMENT.
- PROVIDE ACCESS CEILING PANELS TO MOTORIZED DAMPERS, VALVES, AND EQUIPMENT ABOVE INACCESSIBLE CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT.
- SEAL ALL DUCT AND PIPE PENETRATIONS THRU EXTERIOR WALLS AIRTIGHT WITH WEATHERPROOF SEALANT.
- FLEX DUCTS SHALL BE 6" MAX. USE RIGID DUCTS IF LENGTH REQUIRED IS MORE THAN 6'-0". FLEX DUCTS SHALL NOT HAVE KINKS THAT WOULD OBSTRUCT AIR FLOW. SIZE FLEX DUCT SUCH THAT PRESSURE DROP IS NOT MORE THAN .8" PER 100'.
- COORDINATE LOCATIONS OF AIR DEVICES WITH LIGHT FIXTURES AND ARCHITECTURAL CEILING DESIGN.
- PRIOR TO ORDERING SHEET METAL FIELD VERIFY AND COORDINATE EXACT DUCT ROUTING WITH NEW AND EXISTING STRUCTURAL CONDITIONS.
- CONTRACTOR SHALL VERIFY CLEARANCE REQUIREMENTS AND ROUTING OF NEW SYSTEMS PRIOR TO FABRICATION AS RISES, DROPS, AND OFFSETS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
- CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONDITIONS AND PROVIDE OFFSETS AND CLEARANCES AS REQUIRED.
- INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE OR IN FURR DOWNS WHERE SHOWN.
- COORDINATE FINAL THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS WITH ARCHITECT. DO NOT LOCATE THERMOSTATS OR TEMPERATURE SENSORS BEHIND DOORS OR EQUIPMENT.
- UNLESS SPECIFICALLY INDICATED ALL DUCT TRANSITIONS SHALL BE SMOOTH AND GRADUAL WITH MAXIMUM DIVERGENT ANGLE OF 15°.
- PROVIDE MINIMUM 6" WIDE FLEXIBLE CONNECTOR TO CONNECT DUCTS TO AIR HANDLING UNITS, FAN COIL UNITS, FAN ROOF TOP UNITS, AND WHERE INDICATED ON THE DRAWINGS.
- MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING, CONDUIT STARTERS ETC. REQUIRED TO MAKE THE HVAC CONTROL SYSTEM FULLY OPERATIONAL IN ACCORDANCE TO PLANS AND SPECIFICATIONS. WIRING SHALL INCLUDE 20 V AND LOW VOLTAGE WIRING REQUIRED FOR HVAC CONTROL SYSTEMS. PROVIDE CONTROLS CAPABLE CONTROLLING MULTI-STAGE HEATING, SUBMIT CONTROL WIRING DIAGRAM TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING OR INSTALLING CONTROL SYSTEM. ALL CONTROL COMPONENTS AND MATERIAL SHALL BE COMPATIBLE WITH THE EQUIPMENT IT SERVES.
- PROVIDE ALL ACCESSORIES FOR LONG LINE SET REFRIGERANT LINES AS REQUIRED BY MANUFACTURER. THIS INCLUDES CRANKCASE HEATER, TXV, HEADSTART ASSIST AND LIQUID LINE SOLENOID. SIZE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS SUCH THAT LONG LINE SET LOSSES ARE MINIMUM. USE LONG RADIUS ELBOWS AND HARD DRAWN COPPER TUBES. COORDINATE WITH MANUFACTURER.
- ALL DUCT DIMENSIONS SHOWN ON PLANS ARE INTERNAL FREE AREA DIMENSIONS. PROVIDE ACCESS DOORS AND PANELS FOR HVAC ITEMS/COMPONENTS THAT MAY REQUIRED SERVICE ABOVE NON-ACCESSIBLE CEILINGS. COORDINATE ALL PANEL LOCATIONS WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.
- ALL SUPPLY AIR CEILING DEVICES SHALL BE INSULATED ON TOP OF DEVICES TO PREVENT CONDENSATION. INSULATE DEVICES WITH 1-1/2" WRAPAROUND INSULATION AND TOTALLY COVER ALL SURFACES. SECURE INSULATION IN PLACE WITH TAPE. APPLY INSULATION PRIOR TO MOUNTING AIR DEVICES.

LEGEND NOTES

- THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.
- THE GENERAL NOTES ON THIS SHEET APPLY TO ALL HVAC DRAWINGS ASSOCIATED WITH THIS PROJECT.

MECHANICAL PIPING SYMBOLS LEGEND

	PIPE UP		CHECK VALVE, SWING GATE
	PIPE DOWN		ANGLE PRESSURE RELIEF VALVE
	CAP		PRESSURE REDUCING VALVE
	90° ELBOW		LOCK SHIELD
	45° ELBOW		QUICK OPENING/CLOSING VALVE
	45° ELBOW DOWN (OGEE)		PRESSURE REGULATOR
	TEE		STRAINER W/BLOW DOWN VALVE
	TEE UP		THREE-WAY VALVE (ELECTRIC)
	TEE DOWN		TWO-WAY VALVE (ELECTRIC)
	TOP CONNECTION		FLEXIBLE CONNECTION
	CROSS		EXPANSION JOINT
	UNION (SCREWED)		THERMOMETER
	UNION (FLANGED)		THERMOMETER WELL
	PIPE BREAK		TEST PLUG
	CONCENTRIC REDUCER		PRESSURE GAUGE W/GAUGE COCK
	ECCENTRIC REDUCER		MANUAL AIR VENT
	END SUCTION PUMP		AUTOMATIC AIR VENT
	BALL VALVE		SOLENOID VALVE
	BUTTERFLY VALVE		FLOW SWITCH
	ISOLATION VALVE		TEMPERATURE AND PRESSURE RELIEF VALVE
	GATE VALVE WITH QUICK DISCONNECT		STEAM TRAP
	TWO-WAY VALVE (PNEUMATIC)		STEAM MOISTURE SEPARATOR
	THREE-WAY VALVE (PNEUMATIC)		STEAM CONTROL VALVE
	BALANCING VALVE		CONTROL, ELECTRIC-PNEUMATIC
	PIPE ALIGNMENT GUIDE		CONTROL, PNEUMATIC-ELECTRIC
	PIPE ANCHOR		RED. PRESS. PRINCIPAL BACKFLOW PREVENTER
	FLANGED END		CHILLED WATER RETURN
	HUMIDIFIER		CHILLED WATER SUPPLY
	HEAT TRACING ON PIPE		CONDENSER WATER RETURN
	DIFFERENTIAL PRESSURE SENSOR		CONDENSER WATER SUPPLY
	NEW CONSTRUCTION		HOT WATER RETURN
	EXISTING TO REMAIN		HOT WATER SUPPLY
	EXISTING TO BE DEMOLISHED		CONDENSATE DRAIN
	CENTER LINE		REFRIGERANT LINES
	DIAMETER		

HVAC NOTES AND SYMBOLS

	CONNECTION POINT OF NEW TO EXISTING
	INDICATES DISCONNECTION POINT
RE: IM-7	REFER TO DETAIL #1 ON DRAWING M-7
MARK-#	EQUIPMENT MARK AND NUMBER. REFER TO EQUIPMENT ABBREVIATIONS ON THIS DRAWING
	AIR DEVICE MARK
	AIR FLOW (CFM)
	NOM. DUCT SIZE (INCHES)
	KEY NOTE DESIGNATIONS
UCD 1"	UNDERCUT DOOR 1"
	INDICATES SECTION NUMBER
	INDICATES DRAWING NUMBER
	INDICATES DETAIL NUMBER
	INDICATES DRAWING NUMBER

HVAC NOTES AND DESIGNATIONS

DAMPERS	
	BACKDRAFT DAMPER
	FIRE DAMPER AND ACCESS DOOR
	MOTORIZED DAMPER
	SMOKE DAMPER AND ACCESS DOOR
	FIRESMOKE DAMPER AND ACCESS DOOR
	MANUAL VOLUME DAMPER
SENSORS	
	H - HUMIDITY SENSOR OR HUMIDISTAT
	T - TEMPERATURE SENSOR OR THERMOSTAT
	DZC - DIGITAL ZONE CONTROLLER
	C - CO2 SENSOR
	OSD - OUTSIDE SENSING DEVICE
	ZS - ZONE SENSOR
	F - FRESTAT
	P - PRESSURE MONITOR
	SD - SMOKE DETECTOR

GENERAL DUCTWORK

	SINGLE LINE		DOUBLE LINE		(ROUND) SINGLE LINE		(ROUND) DOUBLE LINE		EXHAUST DUCT DOWN
	EXHAUST DUCT UP		EXISTING DUCT DOWN		EXISTING DUCT UP		RETURN DUCT DOWN		RETURN DUCT UP
	SUPPLY DUCT DOWN		SUPPLY DUCT UP		EXISTING DUCT BEING DEMOLISHED DOWN		EXISTING DUCT BEING DEMOLISHED UP		RETURN AIR/TRANSFER AIR BOOT

DUCTWORK FITTINGS AND CONNECTIONS

ELBOWS	
	DUCT ELBOWS WITH TURNING VANES
	STANDARD RADIUS ELBOW
SPLITS AND TEES	
	RECTANGULAR TEE FITTING
	RADIUS TEE FITTING
	RECTANGULAR SPLIT FITTINGS WITH SPLITTER DAMPER
	RADIUS SPLIT FITTINGS
TAKE-OFFS AND TAPS	
	RECTANGULAR DUCT TAP WITH VOLUME DAMPER
	ROUND DUCT TAP WITH VOLUME DAMPER
	STANDARD BRANCH TAKE-OFF WITH VOLUME DAMPER
	SPIN-IN TAP WITH FLEX CONNECTION DOWN TO AIR DIFFUSER
	FLEXIBLE DUCT CONNECTION TO RECTANGULAR DUCT WITH SPIN-IN CONNECTOR
TRANSITIONS	
	CONCENTRIC TRANSITION
	ECCENTRIC TRANSITION
	RECTANGULAR TO ROUND DUCTWORK TRANSITION
SYMBOLS	
	ACCESS DOOR
	ACCESS PANEL
	FLEXIBLE CONNECTION, FLEXIBLE DUCT
	VOLUME DAMPER
	MOTORIZED VOLUME DAMPER
	RISE IN DUCT ELEVATION
	DROP IN DUCT ELEVATION
	SOUND TRAP
	RELATIVE ROOM PRESSURE

HVAC AIR DIFFUSERS

	SIDEWALL SUPPLY/EXHAUST REGISTER
	CEILING EXHAUST AIR GRILLE
	CEILING RETURN AIR GRILLE
	RETURN AIR GRILLE WITH BOOT
	STANDARD SUPPLY AIR DIFFUSERS (RECTANGULAR AND ROUND) SHADING DENOTES BLANK-OFF
	CONCENTRIC DIFFUSER

MECHANICAL EQUIPMENT ABBREVIATIONS

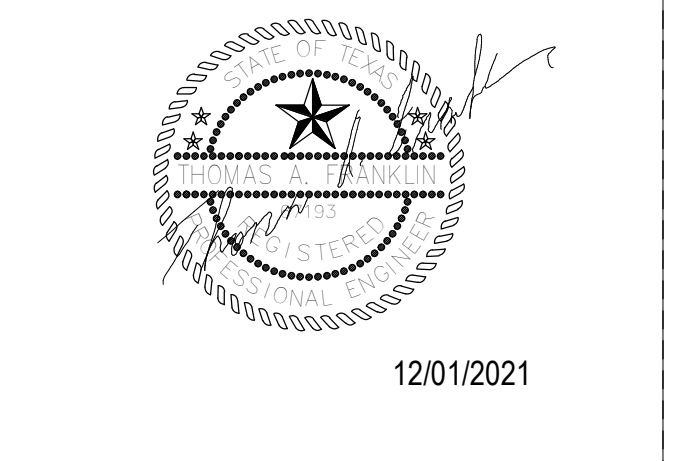
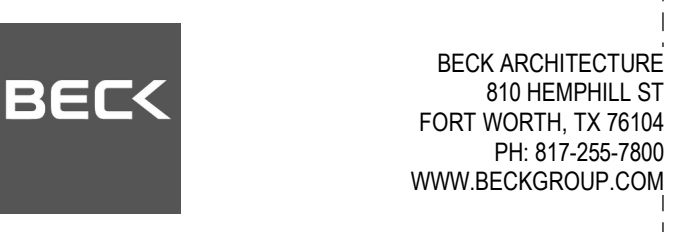
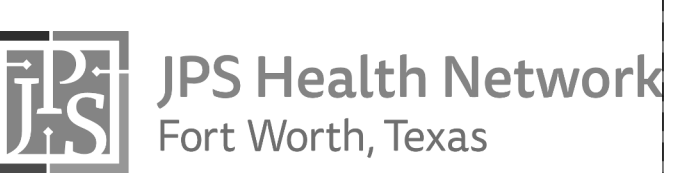
AC	AIR CONDITIONING	OA	OUTSIDE AIR INTAKE
ACD	AUTOMATIC CONTROL DAMPER	OBD	OPPOSED BLADE DAMPER
ACU	AIR CONDITIONING UNIT	OED	OPEN END DUCT
ACUJ	AIR COOLED CONDENSING UNIT	P	PUMP
AF	AIR FOL	PHC	PREHEAT COIL
AHU	AIR HANDLING UNIT	RA	RETURN AIR
ALD	ACOUSTICALLY LINED DUCTWORK	RF	RETURN FAN
ATD	AIR TERMINAL DEVICE	RG	RETURN GRILLE
AVS	AIR VOLUME TRAVERSE STATION	RHC	REHEAT COIL
BDD	BACKDRAFT DAMPER	RLF	RELIEF
BI	BACKDRAFT INCLINED	RR	RETURN REGISTER
CC	COOLING COIL	RTU	ROOF TOP UNIT
CD	CEILING DIFFUSER	RTAU	ROOF TOP AIR HANDLING UNIT
CFM	CUBIC FEET PER MINUTE	RV	ROOF VENT
CG	CEILING GRILLE	SA	SUPPLY AIR
DIFF	DIFFUSER	SATT	SOUND ATTENUATOR
DNDI	DOUBLE WIDTH DOUBLE INLET	SD	SMOKE DAMPER
DNDI	DOUBLE WIDTH SINGLE INLET	SEF	SMOKE EXHAUST FAN
DX	DIRECT EXPANSION	SF	SUPPLY FAN
EF	EXHAUST FAN	SFO	COMBINATION AUTOMATIC SMOKE/FIRE DAMPER WITH ACCESS DOOR
F	FAN	SG	SUPPLY GRILLE
FC	FORWARD CURVED	SM	SHEETMETAL
FA	FREE AREA	SP	STATIC PRESSURE
FCU	FAN COIL UNIT	SR	SUPPLY REGISTER
FD	FIRE DAMPER (W ACCESS DOOR)	SWD	SINGLE WIDTH DOUBLE INLET
FLTR	FILTER	SWSD	SINGLE WIDTH SINGLE INLET
FN	FAN PER INCH	TE	TOILET EXHAUST
FPT	FAN POWERED TERMINAL BOX	TF	TRANSFER FAN
GE	GENERAL EXHAUST	TG	TRANSFER GRILLE
GH	GRAVITY INTAKE HOOD	TR	TRANSFER
GRH	GRAVITY RELIEF HOOD	TSP	TOTAL STATIC PRESSURE
H	HUMIDIFIER	UC	UNDERCUT DOOR
HC	HEATING COIL	UNO	UNLESS NOTED OTHERWISE
HV	HEATING & VENTILATING UNIT	UV	VARIABLE AIR VOLUME TERMINAL UNIT
HUM	HUMIDIFIER	VD	VOLUME DAMPER
LAT	LEAVING AIR TEMPERATURE	VVE	VARIABLE VOLUME SUPPLY AIR TERMINAL
LD	LINEAR DIFFUSER	VV	VARIABLE VOLUME EXHAUST AIR TERMINAL BOX
LVAR	LOUVER		
LVR	LOUVERED DOOR		
OA	OUTSIDE AIR		

HVAC ABBREVIATIONS

AD	ACCESS DOOR	GALV	GALVANIZED
ADJ	ADJUSTABLE	HP	HORSEPOWER
AFF	ABOVE FINISHED FLOOR	HVAC	HEATING, VENTILATING & AIR CONDITIONING
AFG	ABOVE FINISHED GRADE	ID	INSIDE DIAMETER
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	IN	INCHES
ARCH	ARCHITECTURAL	INSUL	INSULATION
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	KW	KILOWATT
ASPH	ASPHETICAL	LES	POUNDS
AUX	AUXILIARY	MACH	MACHINE
BFP	BACKFLOW PREVENTER	MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING	MECH	MECHANICAL
BDD	BOTTOM OF DUCT	MEZZ	MEZZANINE
BOP	BOTTOM OF PIPE	MFR	MANUFACTURER
BTUH	BRITISH THERMAL UNIT PER HOUR	MFD	MOUNTED
		MTR	MOTOR
COND	CONDENSATE	NTS	NOT TO SCALE
CONT	CONTINUOUS	NO	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	NC	NORMALLY CLOSED
DB	DRY BULB TEMPERATURE	O.A.	OUTSIDE AIR
DA	DIAMETER	OD	OUTSIDE DIAMETER
(E)	EXISTING	OSP	OPEN DRIP PROOF
EXH	EXHAUST	SD	SECONDARY DRAIN
EQMT	EQUIPMENT	TYP	TYPICAL
FF	FINISHED FLOOR	UL	UNDERWRITERS LABORATORY
FLR	FLOOR	VFD	VARIABLE FREQUENCY DRIVE
FT	FEET	VD	VOLUME DAMPER
FD	FIRE DAMPER (W ACCESS DOOR)	WG	WATER GAUGE

MECHANICAL SHEET INDEX

Sheet Number	Sheet Name
M0.01	MECHANICAL SYMBOLS & LEGENDS
M2.01	MECHANICAL LEVEL 1 PLAN
M8.01	MECHANICAL SCHEDULES & DETAILS



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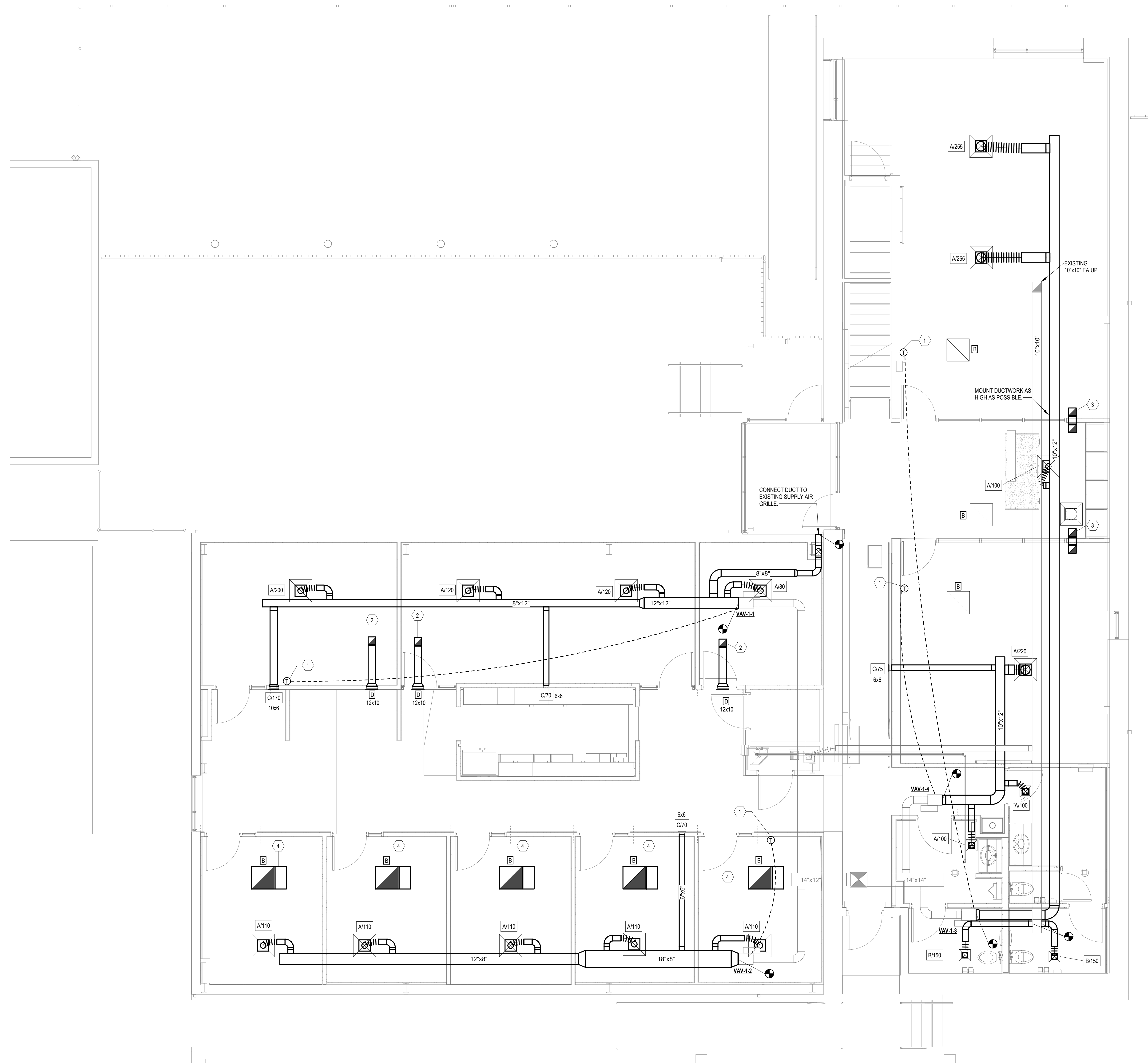
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THERMAL PLANT DECOMMISSION_PH3 THERMAL STORAGE INTERIOR IMPROVEMENT

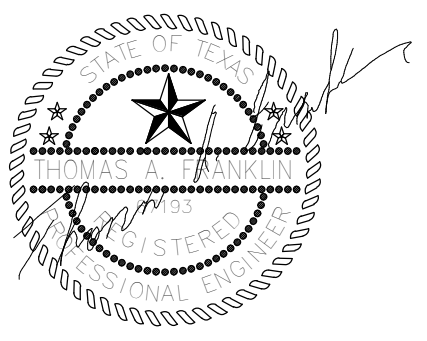
MECHANICAL SYMBOLS & LEGENDS

KEYED NOTES

- 1 PROVIDE 7-DAY PROGRAMMABLE T-STAT. T-STAT SHALL BE MOUNTED 48" A.F.F. OR SAME HEIGHT AS LIGHT SWITCHES. COORDINATE WITH ARCHITECTURAL ELEVATIONS.
- 2 AIR BOOT AT 13' A.F.F.
- 3 RETURN AIR BOOT THROUGH WALL AT 13' A.F.F. REFER TO DETAIL.
- 4 RETURN AIR GRILLE WITH SOUND BOOT. REFER TO DETAIL.



1 MECHANICAL LEVEL 1 PLAN
1/4" = 1'-0"



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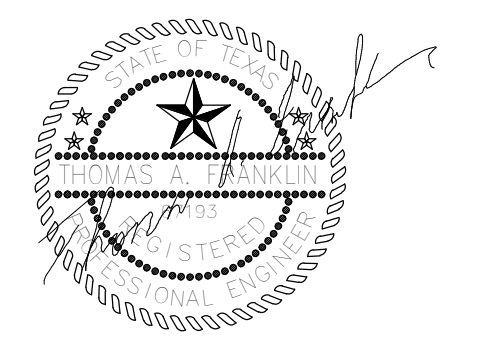
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MECHANICAL LEVEL 1
PLAN

AIR DEVICE SCHEDULE			
MARK	TYPE	MANUFACTURER/MODEL	REMARKS
A	ARCHITECTURAL SQUARE PANEL SUPPLY AIR DEVICE	TITUS: OMNI-AA	24"X24" OR 12"X12" FACE AREA. AIR PATTERN SHALL BE 4-WAY THROW UNLESS OTHERWISE NOTED ON DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE AND CONSTRUCTION DETAILS. FLEX SUPPLYING DIFFUSER TO BE SAME AS NECK SIZE.
B	PERFORATED PANEL RETURN/EXHAUST AIR DEVICE	TITUS: PAR-AA	24"X24" OR 12"X12" FACE AREA WITH 22"X22" AND 10"X10" NECK RESPECTIVELY FOR OPEN GRILLES. PROVIDE PER SCHEDULE FOR DUCTED GRILLES. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPE AND CONSTRUCTION DETAILS. FLEX SUPPLYING GRILLE TO BE SAME AS NECK SIZE.
C	SIDEWALL SUPPLY AIR DIFFUSER	TITUS: 272 FS	SUPPLY AIR DOUBLE-DEFLECTION RECTANGULAR SIDEWALL DIFFUSER. 3/4" SPACE BLADES. FRONT BLADES PARALLEL TO SHORT SECTION. REFER TO PLANS FOR SIZE (W>X>H) AND AIR QUANTITY. PROVIDE WITH OPPOSED BLADE DAMPER.
D	SIDEWALL RETURN/EXHAUST GRILLE	TITUS: 350FL	SIDEWALL RETURN/EXHAUST GRILLE. 3/4" SPACE BLADES. 45 DEGREE DEFLECTION. BLADES PARALLEL TO LONG DIMENSION. REFER TO PLANS FOR SIZE (W>X>H) AND AIR QUANTITY. PROVIDE WITH OPPOSED BLADE DAMPER.

AIR DEVICE CONNECTION SCHEDULE			
AIR QUANTITY (CFM)	DEVICE NECK SIZE	BRANCH DUCT SIZE	
		ROUND DUCT	ALTERNATE RECTANGULAR DUCT
CEILING DIFFUSERS			
0-125	6"ø	6"ø	6X6
126-250	8"ø	8"ø	8X8
251-375	10"ø	10"ø	10X10
376-475	12"ø	12"ø	12X10
476-600	14"ø	14"ø	14X14
601-850	18"ø	18"ø	16X16
SIDEWALL GRILLES			
ALL CFMS		REFER TO DRAWINGS	REFER TO DRAWINGS
SLOT DIFFUSERS			
0-125	6"ø	6"ø	REFER TO DRAWINGS
256-250	8"ø	8"ø	REFER TO DRAWINGS
276-375	10"ø	10"ø	REFER TO DRAWINGS

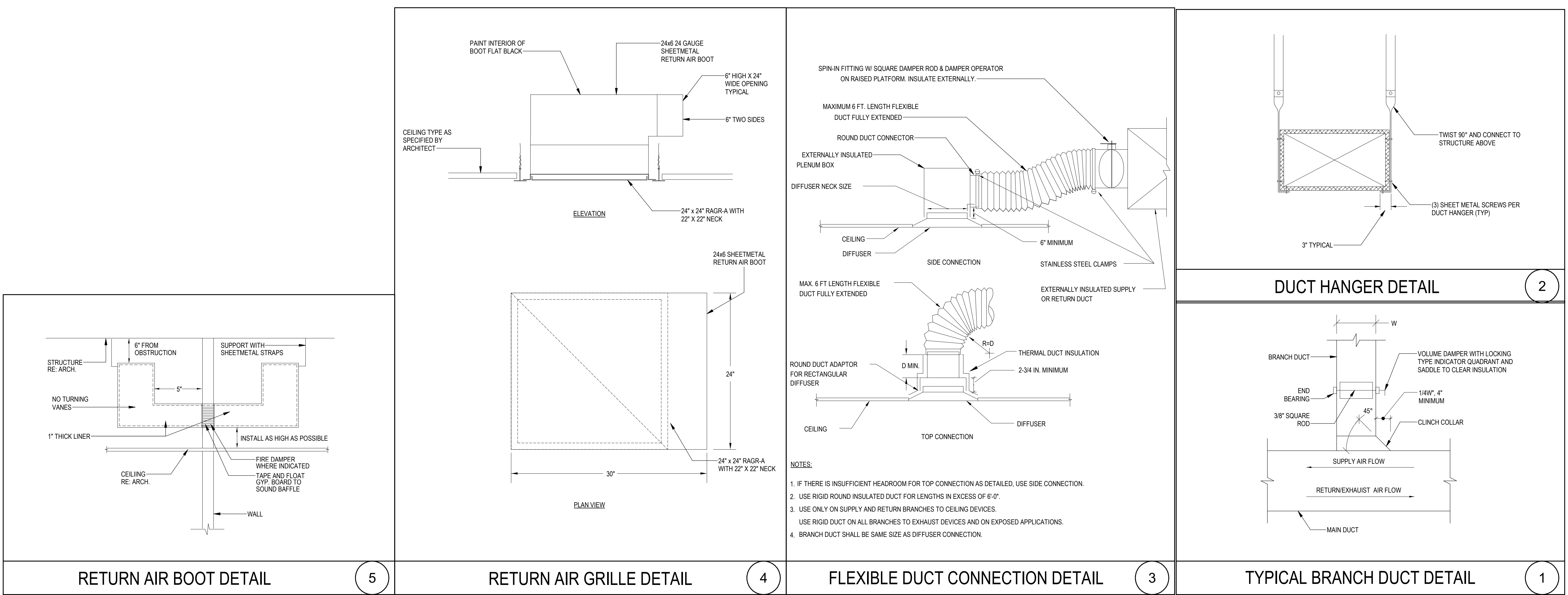
- NOTES:**
- CEILING DIFFUSERS ARE 4-WAY UNLESS INDICATED OTHERWISE IN THE DRAWINGS.
 - PROVIDE BLOW CLIPS TO DIRECT AIR FLOW AWAY FROM WALLS AND GLASS WHEN DEVICES ARE WITHIN 4' OF A WALL.
 - ALL VISIBLE SURFACES OF THE RETURN/EXHAUST PLENUM AND DUCT CONNECTION SHALL BE PAINTED FLAT BLACK.
 - AIR DEVICE FRAME AND STYLE SHALL MATCH CEILING TYPE. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
 - PROVIDE MANUFACTURER'S INSULATED BACKPAN FOR ALL SUPPLY AIR DEVICES.
 - ALL AIR DEVICES SHALL BE ALUMINUM CONSTRUCTION.
 - REFER TO ARCHITECT FOR FINISHES AND COLOR OF DEVICES.



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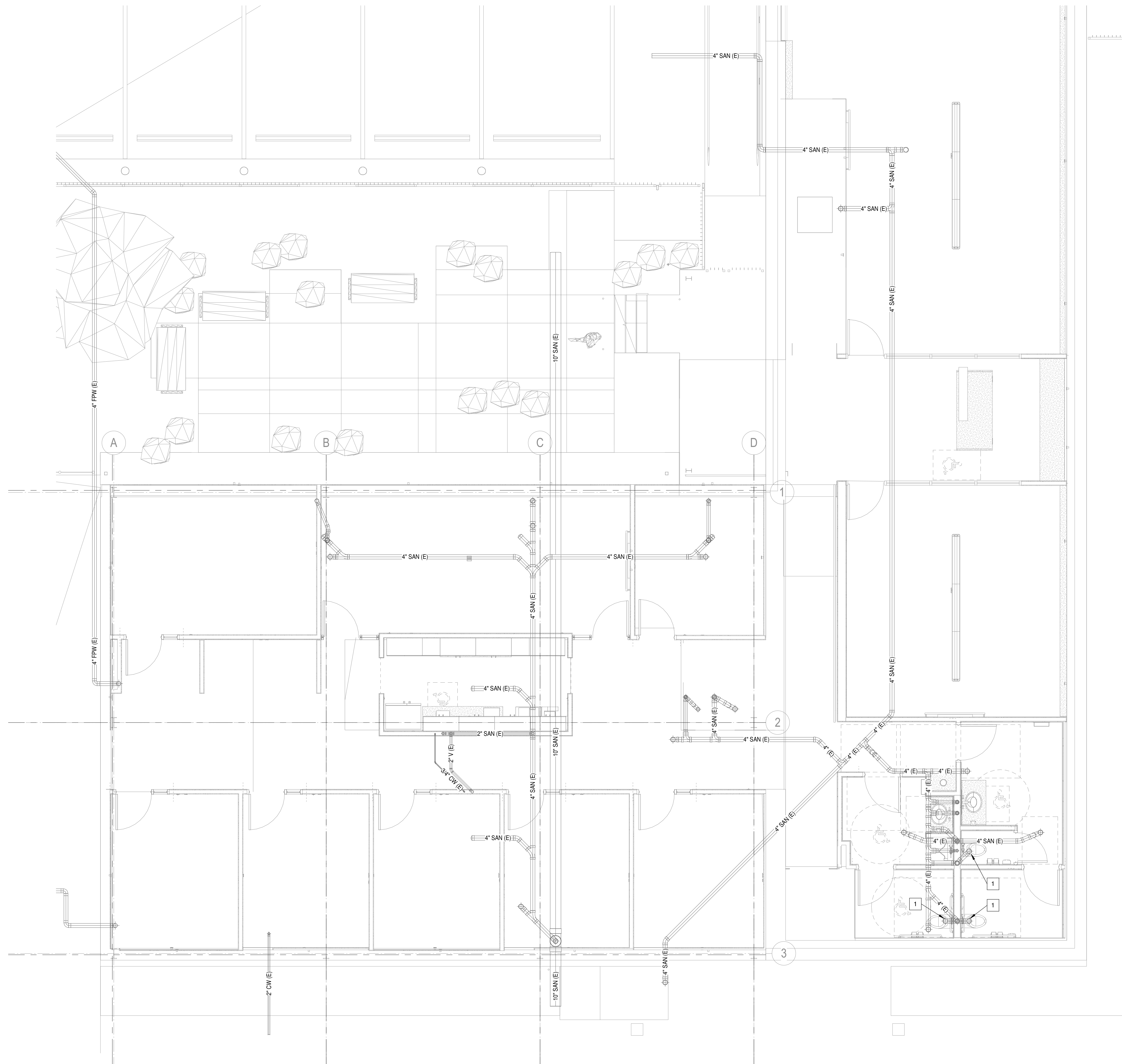
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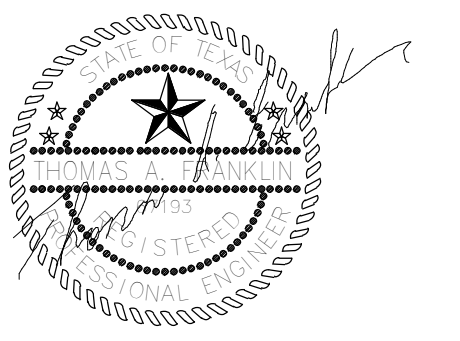
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MECHANICAL
SCHEDULES & DETAILS



1 PLUMBING UNDERFLOOR PLAN
1/4" = 1'-0"

INDICATES KEYED NOTE
KEYED NOTES
1 CONNECT NEW WATER CLOSET TO EXISTING 4" SANITARY PIPING.



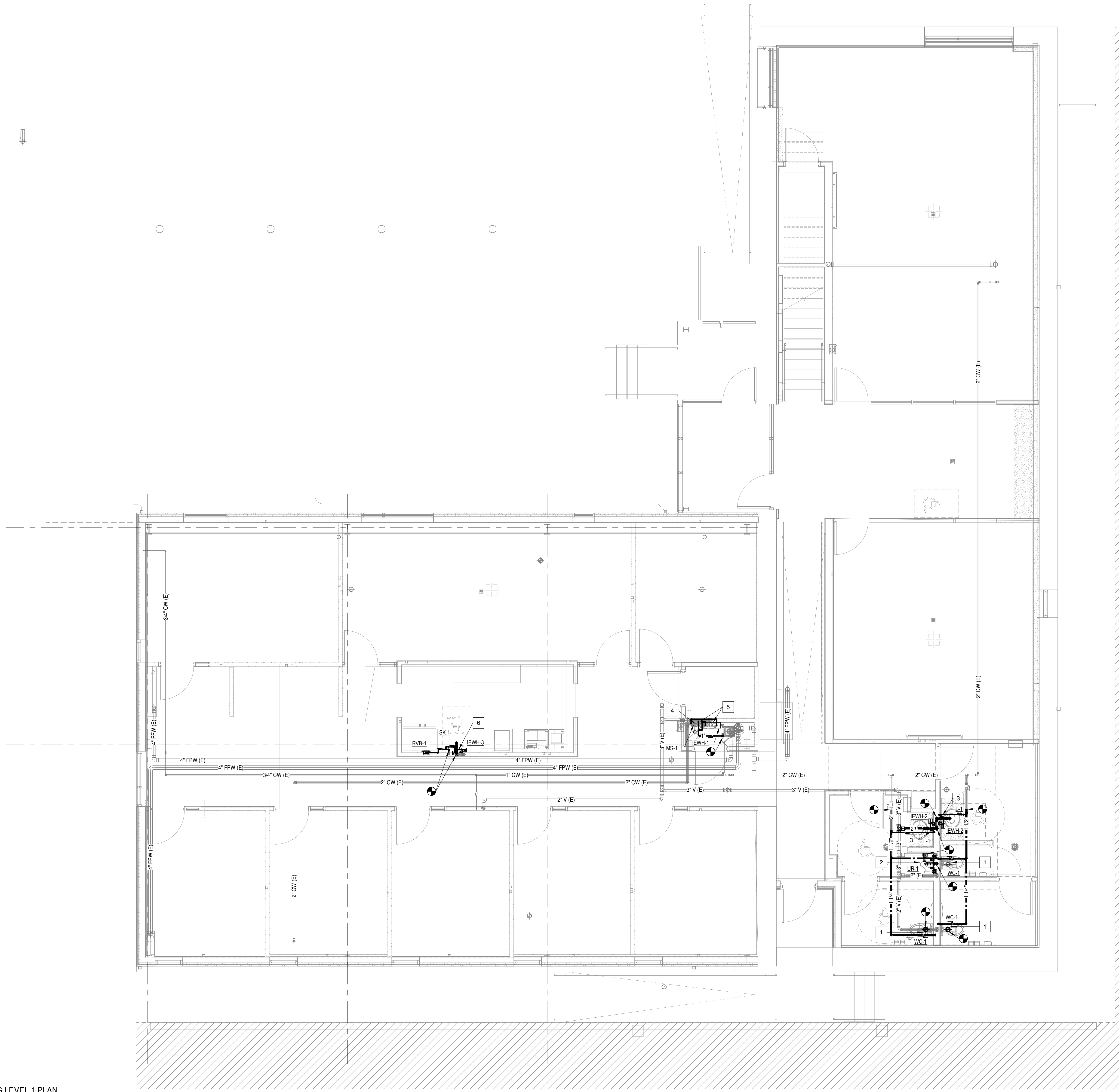
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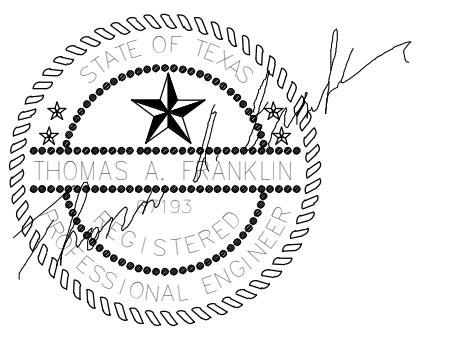
PLUMBING
UNDERFLOOR PLAN



1 PLUMBING LEVEL 1 PLAN
1/4" = 1'-0"

INDICATES KEYED NOTE **KEYED NOTES**

- 1 ROUTE 1 1/4" DCW DOWN IN WALL TO SERVE WATER CLOSET. CONNECT WATER CLOSET TO EXISTING 4" SANITARY PIPING BELOW.
- 2 ROUTE 1" DCW DOWN IN WALL TO SERVE URINAL. CONNECT NEW 2" SANITARY PIPING TO EXISTING 2" PIPING FROM BELOW. CONNECT 2" VENT.
- 3 ROUTE 1/2" DCW DOWN IN WALL TO LAVATORY AND TANKLESS WATER HEATER. ROUTE 1/2" DHW FROM WATER HEATER TO FAUCET. CONNECT NEW 2" SANITARY PIPING TO EXISTING 2" PIPING FROM BELOW. CONNECT 2" VENT.
- 4 ROUTE 3/4" DCW DOWN IN WALL TO MOP SINK FAUCET. ROUTE 1/2" DHW FROM WATER HEATER TO FAUCET.
- 5 ROUTE 3/4" DCW DOWN IN WALL TO TANKLESS WATER HEATER. ROUTE 3/4" DHW FROM WATER HEATER TO FAUCET.
- 6 CONNECT TO EXISTING 3/4" DCW FROM BELOW. ROUTE 1/2" DCW IN WALL TO VALVE BOX, LAVATORY, AND TANKLESS WATER HEATER. ROUTE 1/2" DHW FROM WATER HEATER TO FAUCET. CONNECT NEW 2" SANITARY PIPING TO EXISTING 2" PIPING FROM BELOW. CONNECT 2" VENT.



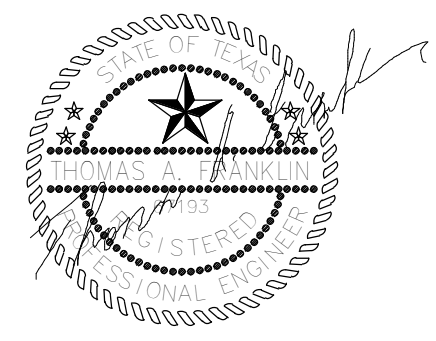
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PLUMBING LEVEL 1
PLAN



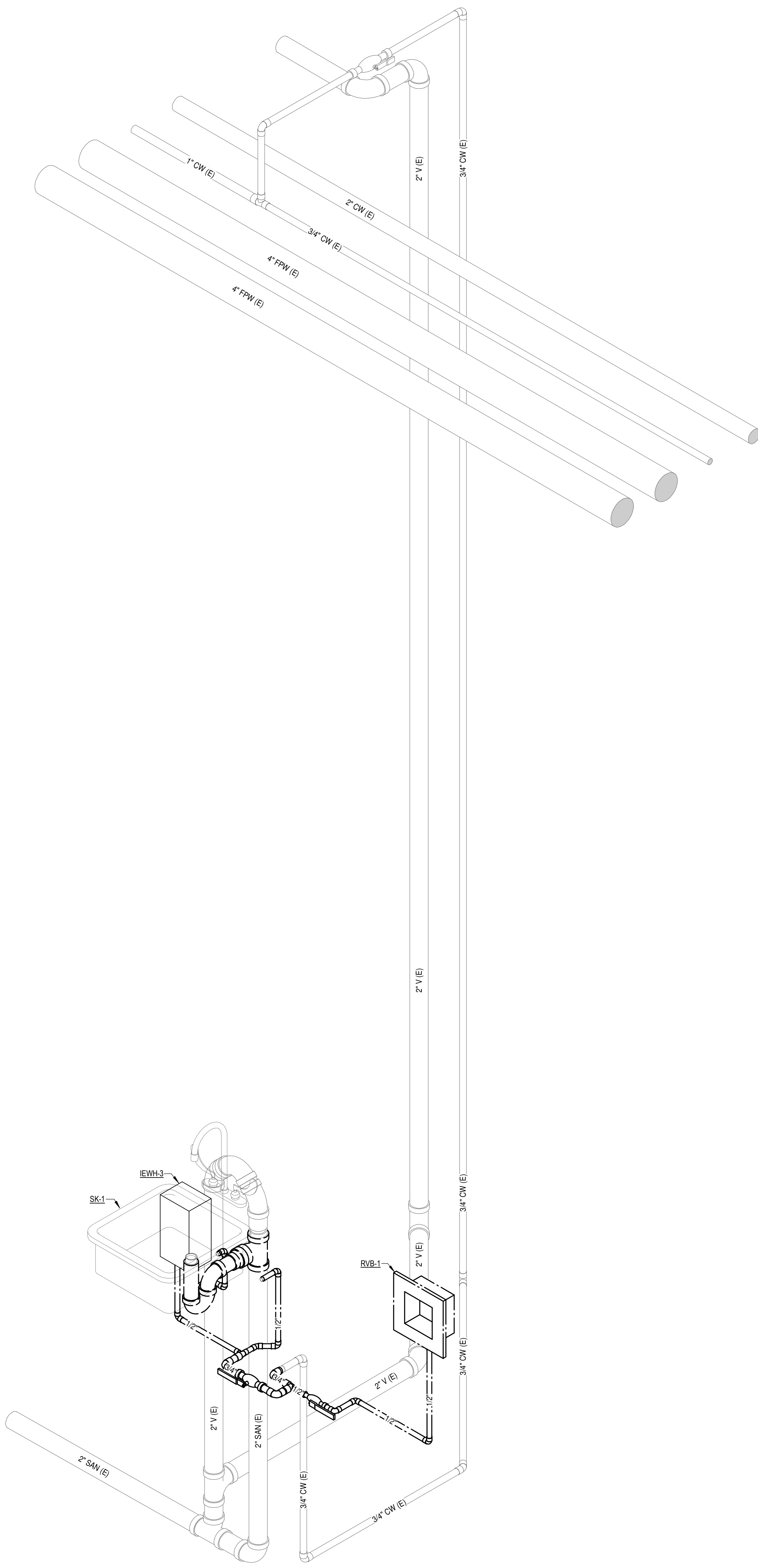
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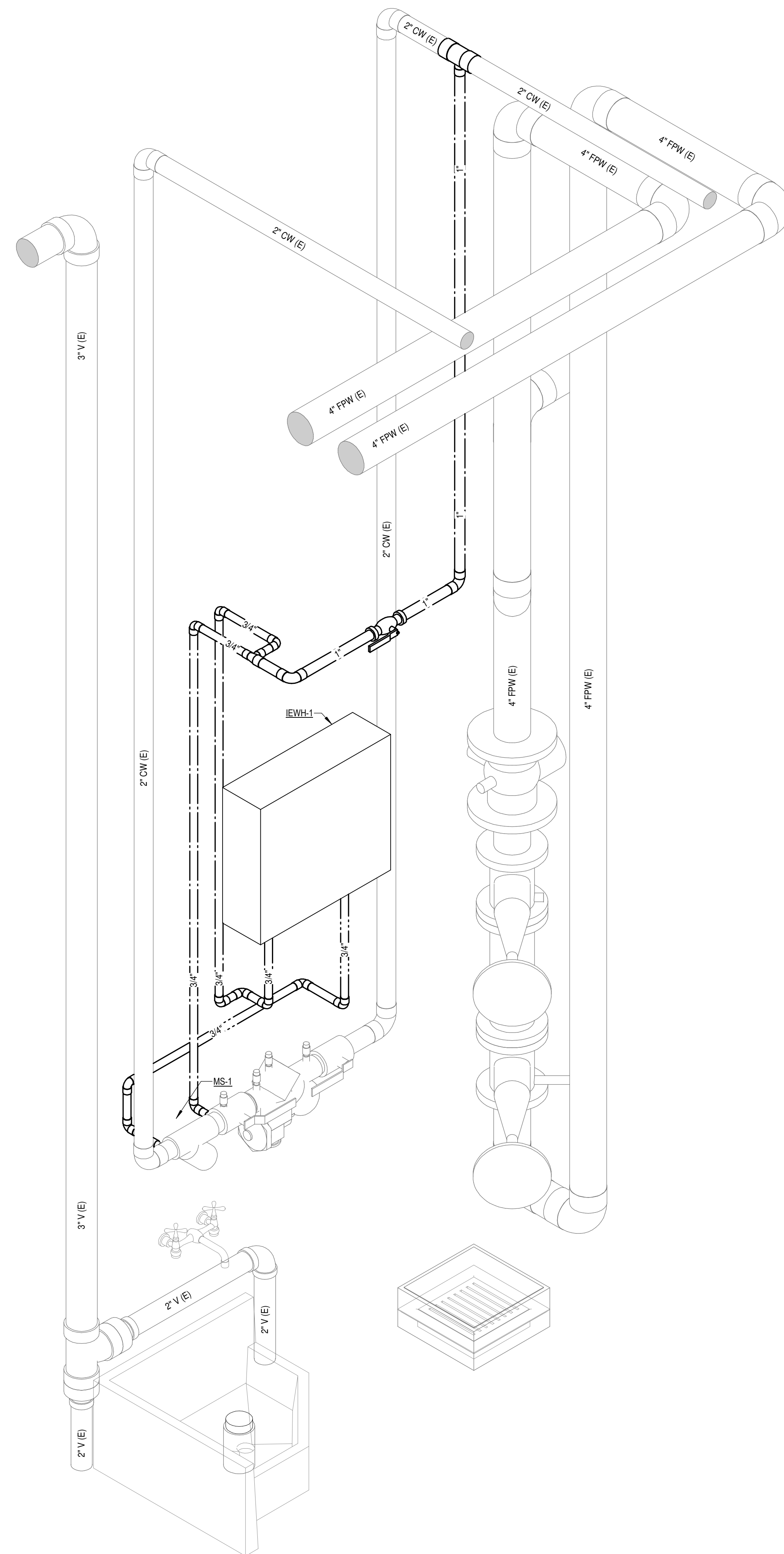
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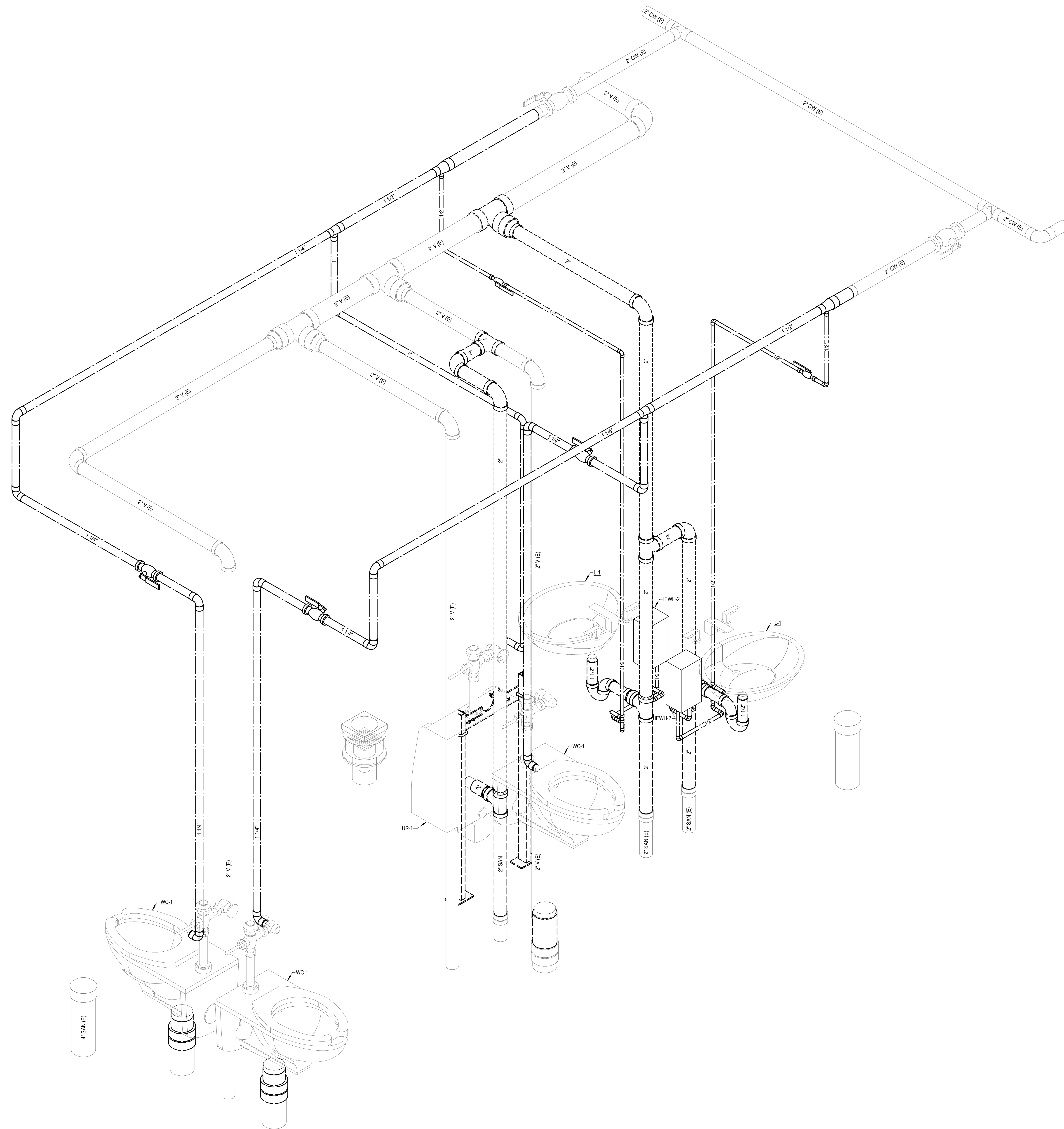
PLUMBING RISERS



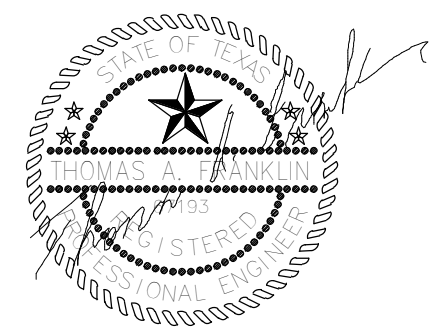
1 PLUMBING RISER BREAK ROOM



2 PLUMBING RISER MOP SINK



1 PLUMBING RISER RESTROOMS



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INTERIOR
IMPROVEMENT

PLUMBING RISERS

SHOCK ARRESTOR SCHEDULE

FIXTURE UNITS	SIZE
1-11	1/2" NPT
12-32	3/4" NPT
33-40	1" NPT
61-113	1 1/4" NPT
114-154	1 1/2" NPT
155-330	2" NPT

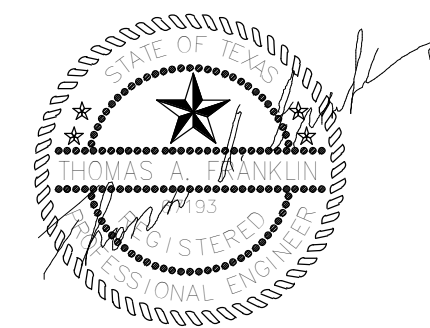
NOTES:
1. ALL FIXTURE WATER SUPPLIES SHALL BE INSTALLED WITH APPROPRIATELY SIZED ARRESTORS IN COMPLIANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

ELECTRIC WATER HEATER SCHEDULE

MARK	MODEL AND DESCRIPTION	KW	VOLTS/PHASE	REMARKS
IEWH-1	EEMAX MODEL XTP036480. SET @140°.	36	480/3	PROVIDE THERMOSTATIC MIXING VALVE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
IEWH-2	EEMAX MODEL AM004277T. SET @105°.	4.1	277/1	PROVIDE THERMOSTATIC MIXING VALVE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
IEWH-3	EEMAX MODEL AM010277T. SET @105°.	10	277/1	PROVIDE THERMOSTATIC MIXING VALVE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

PLUMBING FIXTURE SCHEDULE

ID	ITEM	MANUFACTURER/ MODEL NO.	FIXTURE SERVICE	REMARKS
WC-1	WATER CLOSET FLOOR MOUNTED BARRIER-FREE	AMERICAN STANDARD MODEL NO. 3043.001 "MADERA" FLOWWISE ELONGATED WALL FLOOR. OUTLET, VITREOUS CHINA WATER CLOSET, 1.28 GALLON FLUSH HET, WIRIM @ 17" AFF. INCLUDES OPEN FRONT SEAT. FLUSH VALVE. SLOAN ROYAL MODEL 111-1.28 MANUAL FLUSH VALVE.	1-1/4" CW 4" WASTE 2" VENT	RE: ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. FLUSH HANDLE SHALL BE ON ACCESSIBLE SIDE OF TOILET ROOM OR STALL.
UR-1	URINAL WALL HUNG BARRIER-FREE	AMERICAN STANDARD #690.001 WASHBROOK. 0.5 GPF VITREOUS CHINA URINAL. SLOAN FLUSH VALVE MODEL NO. 186-0.5 GPF WITH JAY R. SMITH #0614 OR AS REQUIRED.	3/4" CW 2" WASTE 2" VENT	REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT AND ADA REQUIREMENTS.
L-1	LAVATORY UNDERCOUNTER BARRIER-FREE SENSOR OPERATED	KHOLER MODEL K2214 "LADENA" UNDERCOUNTER MOUNT SINK. DELANY MODEL SF1596-B/E-DP4 SENSOR OPERATED FAUCET WITH 0.5GPM AERATOR. FURNISH WJAY R. SMITH #0710 FLOOR-MOUNTED LAVATORY SUPPORT W/CONCEALED ARMS. TRIM. MCGUIRE #156WC GRID DRAIN W/1 1/4" TAILPIECE. OFFSET FOR WHEELCHAIR USE. #8872 - 1 1/4" P-TRAP. #H-2165 SUPPLY STOPS. LEONARD #170-LF-BRKT POINT OF USE MIXING VALVE.	1/2" CW 1/2" HW 2" WASTE 2" VENT	PRE-FABRICATED INSULATION ON WATER LINES AND P-TRAP. BROCAR PRODUCTS, INC., TRAP WRAP TRUE BRO. INC., HAND LAY GUARD, MCGUIRE PRO-WRAP. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT.
SK-1	DOUBLE COMPARTMENT SINK GOOSENECK SPOUT WRISTBLADE HANDLES	ELKAY MODEL NO. LRAD252155. SINGLE COMP. SELF RIMMING STAINLESS STEEL SINK. CHICAGO FAUCET NO. 786-E2895-SABCP 4" WRIST BLADE HANDLES WITH RIGID/SWING GOOSENECK SPOUT AND 0.5 GPM VANDAL PROOF NON-AERATING SPRAY. MCGUIRE NO. 152 GRID DRAIN WITH 1 1/2" TAILPIECE. WITH OFFSET #8089 P-TRAP. #H-2165 SUPPLY STOPS - 1 1/2" P-TRAP. LEONARD #170-LF-BRKT POINT OF USE MIXING VALVE.	1/2" CW 1/2" HW 2" WASTE 2" VENT	SINGLE COMPARTMENT SINK W/INTEGRAL 0.5 GPM FLOW AERATOR. PRO-WRAP (OR EQUAL) TRAP WRAP KIT.
MS-1	MOP SINK FLOOR MOUNT	EXISTING MOP SINK RECEIVER. FURNISH NO. T-35 HOSE AND WALL HOOK, AND T-40 MOP HANGER. CHICAGO FAUCET NO. 897 FAUCET WITH VACUUM BREAKER AND WALL BRACE.	3/4" CW 3/4" HW 3" WASTE 2" VENT	STAINLESS STEEL CAP AND 3 INCH CHROME DRAIN. 24X24X12 INCHES. MOUNT VACUUM BREAKER 7 FT. 6 INCHES A.F.F.
RVB-1	RECESSED VALVE BOX	GLY GRAY MODEL BM875AB LEAD FREE. PROVIDE WITH 1/2" FTP INLET X 1/4" O.D. OUTLET COMPRESSION ANGLE VALVE TUBE. CHROME PLATED SUPPLY STOP. PROVIDE CUNO #AP177 FILTER BRACKETED TO WALL.	1/2" CW	VERIFY MOUNTING HEIGHT OF BOX WITH ARCHITECTURAL DRAWINGS. VERIFY EXACT LOCATION OF WATER FILTER WITH ARCHITECT.



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THERMAL PLANT
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PLUMBING SCHEDULES

ELECTRICAL SYMBOLS LEGEND

<p> EMERGENCY BATTERY PACK FIXTURE</p> <p> CEILING EXIT LIGHT - DIRECTIONAL ARROWS WHERE INDICATED SHADED QUADRANTS INDICATE ILLUMINATED FACES</p> <p> WALL EXIT LIGHT - DIRECTIONAL ARROWS WHERE INDICATED SHADED QUADRANTS INDICATE ILLUMINATED FACES</p> <p> OCCUPANCY SENSOR CEILING MOUNT</p> <p> VACANCY SENSOR CEILING MOUNT</p> <p> LIGHTING CONTROL POWER PACK</p> <p> TOGGLE SWITCH, 15A / 277VAC UON 2 = DOUBLE POLE 3 = THREE-WAY 4 = FOUR-WAY a = CONTROLS OUTLET OR FIXTURE NOTED "a" K = KEY OPERATED P = WITH PILOT LIGHT T = INTERVAL TIMER, 30 MIN. UON M = MOTOR RATED SWITCH, RATED FOR MOTOR SERVED MO = SPOT MOMENTARY CONTACT D = DIMMER SWITCH OC = OCCUPANCY SENSOR VS = VACANCY SENSOR LV = LOW VOLTAGE</p> <p> PHOTOCELL CONTROL SWITCH</p> <p> TIME CLOCK</p> <p> DUPLEX CONVENIENCE RECEPTACLE NUMERAL INDICATES CKT NUMBER IG = ISOLATED GROUND (ORANGE DEVICE) G = GROUND FAULT INTERRUPTER 20A = 20 AMP RATED RECEPTACLE * ALL RECEPTACLES ON DEDICATED 20 AMP CIRCUITS SHALL BE RATED 20A.</p> <p> INDICATES WALL OUTLET AT NON-STANDARD HEIGHT WHEN SHOWN ADJACENT TO ANY OUTLET OR RECEPTACLE. AT COUNTERS, MOUNT 6" ABOVE SPLASH UON.</p> <p> QUADRUPLEX RECEPTACLE</p> <p> SINGLE POWER RECEPTACLE, 20A, 125V 3W GNDG UON.</p> <p> FLUSH FLOOR DUPLEX RECEPTACLE</p> <p> FLUSH FLOOR QUADRUPLEX RECEPTACLE</p> <p> PLUGMOLD WITH DUPLEX OUTLETS, 18" OC U.O.N. "12" INDICATES OUTLETS 12" OC "24" INDICATES OUTLETS 24" OC "C" INDICATES WITH COMM COMPARTMENT</p> <p> TELEVISION SIGNAL OUTLET</p> <p> WALL MOUNTED DATA/TELEPHONE</p> <p> FLOOR DATA OUTLET</p> <p> WALL TELEPHONE OUTLET WITH PLATE (W-WALL MOUNTED)</p> <p> CEILING MOUNTED JUNCTION BOX</p> <p> FLUSH WALL MOUNTED JUNCTION BOX FOR MOUNTING HEIGHT REFER TO ARCHITECTURAL AND MEDICAL EQUIPMENT PLAN DRAWINGS.</p> <p> FLOOR MOUNTED JUNCTION BOX</p> <p> CONDUIT TURNING UP/DOWN</p> <p> CAPPED CONDUIT</p> <p> GROUND CONNECTION</p> <p> CONDUIT HOME RUN TO PANEL BOARD "1LB" WITH CIRCUITS 1,3,5</p> <p> DISCONNECT SWITCH - 30A, NON-FUSED, 3-POLE UON, NEMA 1 ENCLOSURE EXCEPT "3R" INDICATES NEMA 3R.</p> <p> FLUSH MOUNTED CIRCUIT BREAKER 100A FRAME/BA TRIP 3 POLE UON</p> <p> PANELBOARD</p> <p> LIGHTING RELAY PANEL</p>	<p> TRANSFORMER</p> <p> AUTOMATIC TRANSFER SWITCH AMPS / POLES AS INDICATED ON PLANS</p> <p> MOTOR</p> <p> MAGNETIC MOTOR STARTER, H-O-A-P U.O.N.</p> <p> COMBINATION MOTOR CONTROLLER AND NON-FUSED DISCONNECT SWITCH</p> <p> VARIABLE FREQUENCY DRIVE FURNISHED BY DIV 23, CONNECTED BY DIV 26</p> <p> INFRARED SENSORS, SENSORS SHALL BE CONNECTED TO CORRIDOR LIGHTING</p> <p> KEY PAD, CONTRACTOR RESPONSIBLE TO PROVIDE ALL REQUIRED HARDWARE AND ELECTRICAL CONNECTIONS.</p> <p> DOOR CONTACT, CONTRACTOR RESPONSIBLE TO PROVIDE ALL REQUIRED HARDWARE AND ELECTRICAL CONNECTIONS.</p> <p> PUSHBUTTON K = KEY OPERATED SWITCH (UPIOFF/DOWN POSITION) E = EMERGENCY POWER OFF BUTTON</p> <p> RELAY</p> <p> UNFUSED SWITCH - 100 AMP 3 POLE UON</p> <p> CIRCUIT BREAKER - 100 AMP FRAME, 3 POLE, UON</p> <p> FUSED SWITCH 100 AMP SWITCH/100 AMP TYPE "FA" FUSE 3 POLE UON</p> <p> FIRE ALARM CONTROL PANEL</p> <p> FIRE ALARM REMOTE ANNUNCIATOR</p> <p> FIRE ALARM STROBE</p> <p> FIRE ALARM SPEAKER STROBE</p> <p> FIRE ALARM SPEAKER</p> <p> FIRE ALARM TAMPER SWITCH</p> <p> FIRE ALARM WATER FLOW</p> <p> SMOKE DETECTOR</p> <p> DUCT SMOKE DETECTOR</p> <p> HEAT DETECTOR</p> <p> MANUAL PULL STATION</p> <p> FIRE ALARM MAGNETIC DOOR HOLD-OPEN</p> <p> FIREMAN'S PHONE</p> <p> FIREMAN'S PHONE HANDSET</p> <p> GENERATOR ANNUNCIATOR PANEL</p> <p> NURSE CALL MASTER STATION</p> <p> ENHANCED SINGLE PATIENT STATION</p> <p> EMERGENCY PULL STATION</p> <p> DUTY STATION</p> <p> STAFF STATION</p> <p> NURSE CALL CODE BLUE</p> <p> BED INTERFACE</p> <p> CEILING MOUNTED ZONE LIGHT</p> <p> CEILING MOUNTED DOME LIGHT</p> <p> NURSE CALL CENTRAL EQUIPMENT CABINET</p> <p>_____ NEW CONSTRUCTION</p> <p>_____ EXISTING TO REMAIN</p> <p>----- EXISTING TO BE REMOVED</p>
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ABBREVIATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPS	IG	ISOLATED GROUND
AC	ALTERNATING CURRENT/ABOVE COUNTER	INCAND	INCANDESCENT
A.D.	AREA DRAIN	INSUL	INSULATION
ADI	ADJACENT	INT	INTERCOM
AF	ABOVE FINISHED FLOOR	J-BOX	JUNCTION BOX
AFG	ABOVE FINISHED GRADE	KVA	KILOVOLT AMPERES
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	KW	KILOWATT
ARCH	ARCHITECTURAL	KWH	KILOWATT HOURS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	LBS	POUNDS
ASYM	ASYMMETRICAL	LOC	LOCATED
ATS	AUTOMATIC TRANSFER SWITCH	LP	LIGHTING PANEL
AUX	AUXILIARY	LTG	LIGHTING
AV	AUDIOVISUAL	MA	MILLIAMPS
AWG	AMERICAN WIRE GAUGE	MACH	MACHINE
BLDG	BUILDING	MC	METAL-CLAD CABLE
B.F.P.	BACKFLOW PREVENTER	MCB	MAIN CIRCUIT BREAKER
B.V.	BALANCING VALVE	MCC	MOTOR CONTROL CENTER
B.D.	BALCONY DRAIN	MCM	THOUSAND CIRCULAR MILS
B.S.	BAR SINK	MCP	MOTOR CONTROL PANEL
B.T.	BATH/UB/SHOWER	MIC	MICROPHONE
BLW.	BELOW	MLO	MAIN LUGS ONLY
C	CONDUIT	MTD	MOUNTED
CB	CIRCUIT BREAKER	MTR	MOTOR
CAT	CATALOG	N	NEUTRAL
CKT	CIRCUIT	NC	NORMALLY CLOSED
CL	CLOCK	NEC	NATIONAL ELECTRICAL CODE
CLG	CEILING	NEMA	NATIONAL ELEC MANUFACTURERS ASSOC.
COL	COLUMN	NETA	NATIONAL ELECTRICAL TESTING ASSOC.
CONC	CONCRETE	NF	NON-FUSE
CONT	CONTINUOUS	NFPA	NATIONAL FIRE PROTECTION ASSOC.
CONV	CONVENIENCE	NL	ON NIGHT LIGHTING CIRCUIT
CT	CURRENT TRANSFORMER	NO	NORMALLY OPEN
C.V.	CHECK VALVE	O/C	OVERCURRENT
C.O.	CLEANOUT	OL	OVERLOAD
C.W.	COLD WATER	LB.	POUNDS
COND.	CONDENSATE	P.S.I.	POUNDS PER SQUARE INCH
CONT.	CONTINUED	P	POLES
D.D.	DECK DRAIN	PB	PULL BOX
"F	DEGREES FAHRENHEIT	PF	POWER FACTOR
D.	DRAIN	PH	PHASE
D.F.U.	DRAINAGE FIXTURE UNITS	PLB	PLUMBING
DC	DIRECT CURRENT	PNL	PANEL
DIA	DIAMETER	PP	POWER PANEL
DP	DISTRIBUTION PANEL	PIT	POTENTIAL TRANSFORMER
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
E	EXISTING TO REMAIN	PWR	POWER
EC	EMPTY CONDUIT	QUAD	QUADRUPLEX
EL	ELEVATION	R	REMOVE
ELEC	ELECTRIC	RC	REMOTE CONTROL
ELEV	ELEVATOR	RECEPT	RECEPTACLE
EM	ON EMERGENCY CIRCUIT	REL	RELOCATE
EQ	EQUIVALENT	REQ	REQUIRED
EMT	ELECTRICAL METALLIC TUBING	REV	REVERSE
EPO	EMERGENCY POWER OFF	RM	ROOM
EQMT	EQUIPMENT	RMS	ROOT MEAN SQUARE
(E)	EXISTING	SP	SPARE
F.D.C.	FIRE DEPARTMENT CONNECTION	SPD	SURGE PROTECTION DEVICE
F.H.C.	FIRE HOSE CABINET	SPECS	SPECIFICATIONS
F.	FIRE	SPKLR	SPRINKLER
FA	FIRE ALARM	SPKR	SPEAKER
FC	FOOT CANDLE	SQ	SQUARE
FDR	FEEDER	STD	STANDARD
FKT	FIXTURE	SURF	SURFACE
FL	FLUSH	SW	SWITCH
FLA	FULL LOAD AMPERES	SWBD	SWITCHBOARD
FLR	FLOOR	SWGR	SWITCHGEAR
FLUOR	FLUORESCENT	SUSP	SUSPENDED
FT	FEET	SYM	SYMMETRICAL
F.F.	FINISHED FLOOR	TEL	TELEPHONE
FLR.	FLOOR	TELCO	TELEPHONE COMPANY
F.C.O.	FLOOR CLEAN OUT	TV	TELEVISION
F.D.	FLOOR DRAIN	TYP	TYPICAL
F.S.	FLOOR SINK	UC	UNDERCOUNTER
G.P.H.	GALLONS PER HOUR	UFD	UNDERFLOOR DUCT
G.P.M.	GALLONS PER MINUTE	UL	UNDERWRITERS LABORATORIES, INC.
G.V.	GREASE VENT	V.T.R.	VENT THRU ROOF
G.C.O.	GRADE CLEAN OUT	V	VOLTS
GA	GAUGE	VA	VOLT AMPERES
GALV	GALVANIZED	VENT	VENTILATING
GFI	GROUND FAULT CIRCUIT INTERRUPTER	VERT	VERTICAL
GFP	GROUND FAULT PROTECTION	V.G.	VAPORPROOF
GND	GROUND	W.C.O.	WALL CLEAN OUT
GRC	GALVANIZED RIGID CONDUIT	W.H.	WALL HYDRANT
H.W.	HOT WATER	W.B.	WASHER BOX
H.W.R.	HOT WATER RETURN	W.C.	WATER CLOSET
HGT	HEIGHT	WG	WIRE GUARD
HOA	HAND OFF AUTOMATIC	WP	WEATHERPROOF
HORIZ	HORIZONTAL	XFMR	TRANSFORMER
HP	HORSEPOWER	YD	YARD
HTG	HEATING	1C, 2C,	1 CONDUCTOR, 2 CONDUCTORS, ETC.
HVAC	HEATING, VENTILATING & AIR CONDITIONING		
INV.	INVERT		
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS		

DEMOLITION GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL PERTINENT NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES, AND ALL AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS.
- DRAWINGS ARE DIAGRAMMATIC; COORDINATE THE ROUGH-IN LOCATION, CONNECTION TYPE AND TERMINATION REQUIREMENTS WITH EQUIPMENT INSTALLERS PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PROJECT PHASING REQUIREMENTS.
- REMOVE ALL ELECTRICAL AND SPECIAL SYSTEMS DEVICES AND EQUIPMENT (LIGHT FIXTURES, FIRE ALARM DEVICES, NURSE CALL DEVICES, WIRING DEVICES, SPEAKERS, ETC.) SHOWN DASHED AND WITHIN DEMOLITION AREA INDICATED BY DASHED WALLS, UON.
- RETAIN 277 VOLT LIGHTING CIRCUITS TO SERVE NEW AND RELOCATED LIGHT FIXTURES SHOWN ON SHEET E2.01.
- FOR ALL REMOVED WIRING DEVICES, REMOVE ASSOCIATED BRANCH CIRCUITING AND DATA/COMMUNICATION WIRING AND CONDUIT FROM DEVICE TO SOURCE UNLESS NOTED OTHERWISE OR UNLESS REQUIRED TO MAINTAIN SERVICE TO DEVICES IN ADJACENT AREAS.
- MAINTAIN SERVICE TO LIGHT FIXTURES, WIRING DEVICES, FIRE ALARM AND SPECIAL SYSTEM DEVICES OUTSIDE OF WORK AREA.

POWER & SPECIAL SYSTEMS GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL PERTINENT NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES, AND ALL AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS.
- DRAWINGS ARE DIAGRAMMATIC; COORDINATE THE ROUGH-IN LOCATION, CONNECTION TYPE AND TERMINATION REQUIREMENTS WITH EQUIPMENT INSTALLERS PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND EXACT LOCATION OF ALL WIRING DEVICES.
- COORDINATE LOW VOLTAGE SPECIAL SYSTEMS WITH ARCHITECT/TOWNER. PROVIDE J-BOX AND 3/4" CONDUIT WITH PULLSTRING AND BUSHINGS TO ABOVE ACCESSIBLE CEILING.
 - PROVIDE BACKBOX AND RACEWAY ROUGH-IN FOR THE FOLLOWING SYSTEMS:
 - SECURITY (CAMERAS, CARD READERS, ACCESS CONTROL)
 - OVERHEAD PAGE/PUBLIC ADDRESS
 - VOICE/DATA
 - AV
- PROVIDE 120V CONTROL REQUIREMENTS FOR THESE SYSTEMS.
- FIRE ALARM SYSTEM IS PERFORMANCE-BASED.
 - PROVIDE NEW FIRE ALARM SYSTEM TO ACCOMMODATE A COMPLETE WORKING FIRE ALARM SYSTEM.
 - PROVIDE INTERFACE TO SERVE EGRESS DOORS TO AUTO RELEASE IN THE EVENT OF A FIRE ALARM.
 - FIRST RESPONDER RADIO COVERAGE SHALL BE MET. CONFIRM MINIMUM RADIO SIGNAL STRENGTH WITH THIRD PARTY CONSULTANT/FIRE DEPARTMENT. PROVIDE SDA, DAS OR OTHER TYPE OF RADIO ENHANCEMENT SYSTEM (RES) PER FIRE DEPARTMENT REQUIREMENTS.
 - PROVIDE 120V CONTROL REQUIREMENTS.
- ALL CONDUCTORS SHALL HAVE A INSULATION RATING OF 75°C.
- RUN #10 AWG TO FIRST DEVICE OF CIRCUIT IN HOME RUNS BEYOND 75' IN DISTANCE.
- ALL SINGLE-PHASE RECEPTACLES RATED 150 V TO GROUND OR LESS, 50 A OR LESS AND THREE-PHASE RECEPTACLES RATED AT 150V TO GROUND OR LESS, 100 A OR LESS INSTALLED IN (1) BATHROOMS, (2) KITCHENS, (3) ROOFTOPS, (4) OUTDOORS, (5) SINKS, (6) INDOOR WET LOCATIONS, (7) LOCKER ROOMS WITH ASSOCIATED SHOWERING FACILITIES, (8) GARAGES, SERVICE BAYS, AND SIMILAR AREAS OTHER THAN VEHICLE EXHIBITION HALLS AND SHOWROOMS, (9) CRAWL SPACES AT OR BELOW GRADE LEVEL PER 2020 NEC 210.8 (B). WHERE GFCI WIRING DEVICES ARE NOT ACCESSIBLE PROVIDE GFCI CIRCUIT BREAKER OR GFCI REMOTE RESET.
- PROVIDE TAMPER RESISTANT ELECTRICAL DEVICES IN ALL OFFICES, CORRIDORS, AND WAITING ROOMS PER 2020 NEC 408.12.
- ALL OUTLET RECEPTACLE COVER PLATES AND RECEPTACLES TO MATCH. MATCH PREDOMINATE COLOR. PROVIDE WITH IF ALL NEW.
- ELECTRICAL OUTLETS AND TELEPHONE/DATA RECEPTACLES SHOWN IN SOUND RATED PARTITIONS SHALL NOT BE PLACED BACK TO BACK, OFFSET AT LEAST ONE STUD AND SEAL FOR SOUND AS REQUIRED.
- ELECTRICAL SCHEDULES TO BE PROPERLY LABELED AND RECEPTACLES LABELED ACCURATELY IDENTIFYING PANELS AND CIRCUIT.
- X-RAY FLOOR PRIOR TO ANY CORING ANY SLAB.

LIGHTING COMMISSIONING GENERAL NOTES

- CONTRACTOR TO PROVIDE COMMISSIONING FOR THIS PROJECT.
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) REQUIRES COMMISSIONING PER SECTION 408.
- PROVIDE ELECTRICAL SYSTEM FUNCTIONAL TESTING PER 2015 IECC 408.3.1 FOR THE FOLLOWING:
 - 408.3.1.1 OCCUPANT SENSOR CONTROL.
 - 408.3.1.2 TIME SWITCH CONTROLS.
 - 408.3.1.3 DAY/LIGHT RESPONSIVE CONTROLS.
- PROVIDE THE DOCUMENTATION REQUIRED PER 2015 IECC 408.3.2.
- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATING ELECTRICAL FUNCTIONAL TESTING WITH COMMISSIONING AGENT PRIOR TO FINAL ELECTRICAL INSPECTION BY LOCAL AUTHORITY HAVING JURISDICTION.
- NOTIFY COMMISSIONING AGENT AT A MINIMUM OF TWO WEEKS PRIOR TO PERFORMING EACH FUNCTIONAL TEST.

LIGHTING GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL PERTINENT NATIONAL, STATE, AND LOCAL ORDINANCES AND CODES, AND ALL AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS.
- DRAWINGS ARE DIAGRAMMATIC; COORDINATE THE ROUGH-IN LOCATION, CONNECTION TYPE AND TERMINATION REQUIREMENTS WITH EQUIPMENT INSTALLERS PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED LIGHT FIXTURES.
- NOT USED
- RUN #10 AWG TO FIRST DEVICE OF CIRCUIT IN HOMERUNS BEYOND 75' IN DISTANCE.
- NEW LIGHT FIXTURES SHALL BE PROVIDED WITH LIGHT FIXTURE FIRE RATINGS THAT MATCHES EXISTING CONSTRUCTION.
- CONNECT EXIT LIGHTS AND LIGHTS DENOTED "NL" SHALL BE WIRED AHEAD OF ANY SWITCHING AND EGRESS LIGHTS SHOWN HATCHED OR DENOTED "EM" SHALL BE ROUTED THROUGH INVERTER BATTERY SYSTEM (UL 924 RATED). EGRESS LIGHTS SHALL BE SWITCHED. DURING LOSS OF NORMAL POWER EGRESS LIGHTS SHALL BE 100% FULL BRIGHT.
- PROVIDE LOW VOLTAGE DIMMER SWITCHED WITH RAISE/LOWER AND ON/OFF FUNCTION AND CONTROL VIA VACANCY/OCCUPANCY SENSORS. MATCH BASE BUILDING MANUFACTURER. PROVIDE POWER PACKS AS REQUIRED. RE: 1/E2.02 & E5.02.

ELECTRICAL SHEET INDEX	
Sheet Number	Sheet Name
E0.01	ELECTRICAL SYMBOLS & LEGENDS
E2.01	LIGHTING LEVEL 1 PLAN
E3.01	POWER LEVEL 1 PLAN
E8.01	ELECTRICAL SCHEDULES
E9.02	ELECTRICAL SCHEDULES
E9.01	ELECTRICAL DETAILS

CURRENT SUBMISSION:

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THERMAL PLANT DECOMMISSION_PH 3 THERMAL STORAGE INTERIOR IMPROVEMENT

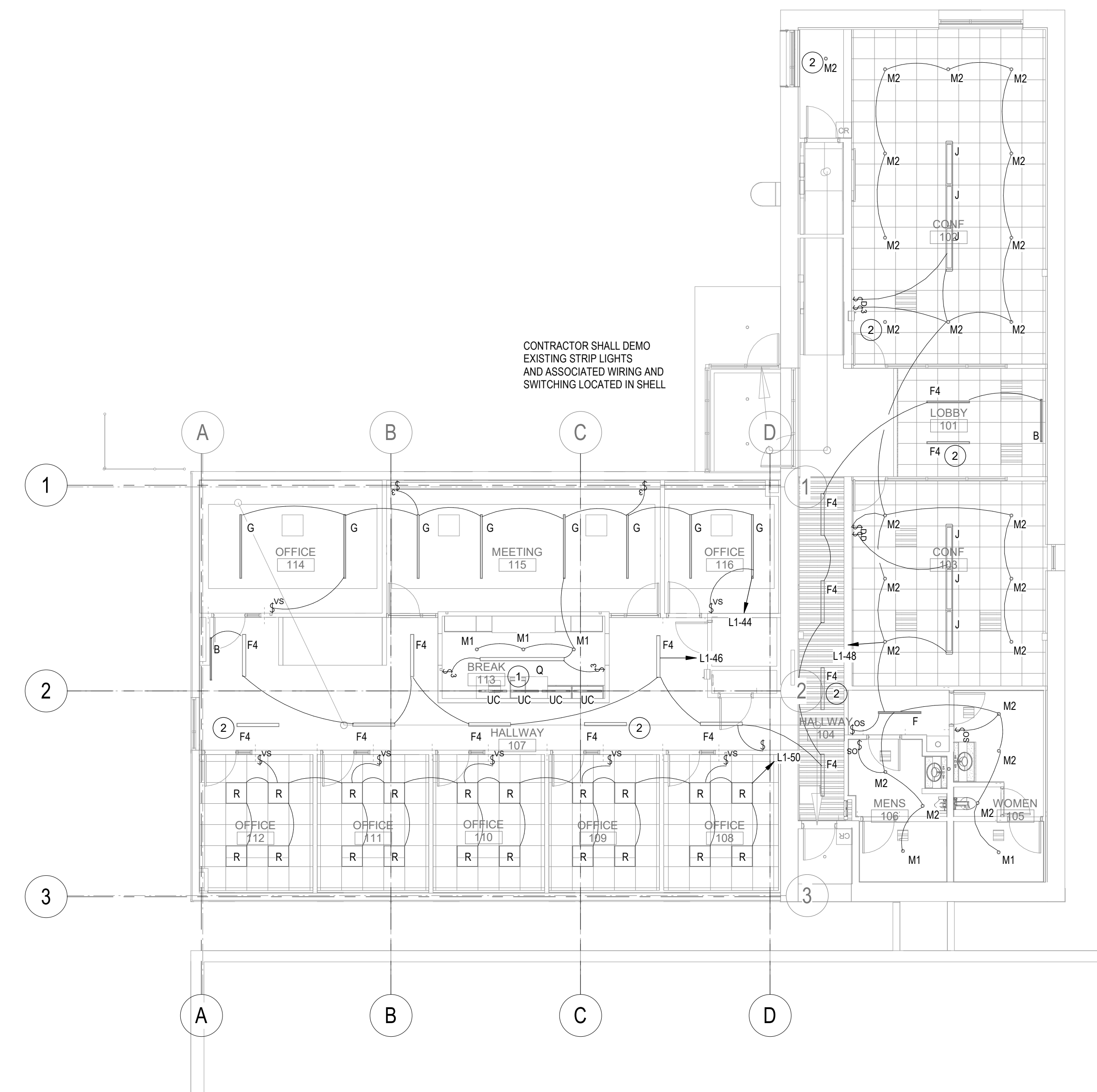
ELECTRICAL SYMBOLS & LEGENDS

LIGHTING GENERAL NOTES

1. REFER TO SHEET E0.01 FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

KEYED NOTES

1. WIRE UNDERCABINET LIGHTS TO NEAREST RECEPTACLE LOCATED AT COUNTER.
2. WIRE THIS FIXTURE AS A NITE LITE TO 20A1P BREAKER IN EMERGENCY GENERATOR PANEL LOCATED IN GEAR ROOM. FIELD COORDINATE EXACT RUN LENGTHS AND PANEL LOCATION.



1 LIGHTING LEVEL 1 PLAN
1/8" = 1'-0"



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THERMAL PLANT
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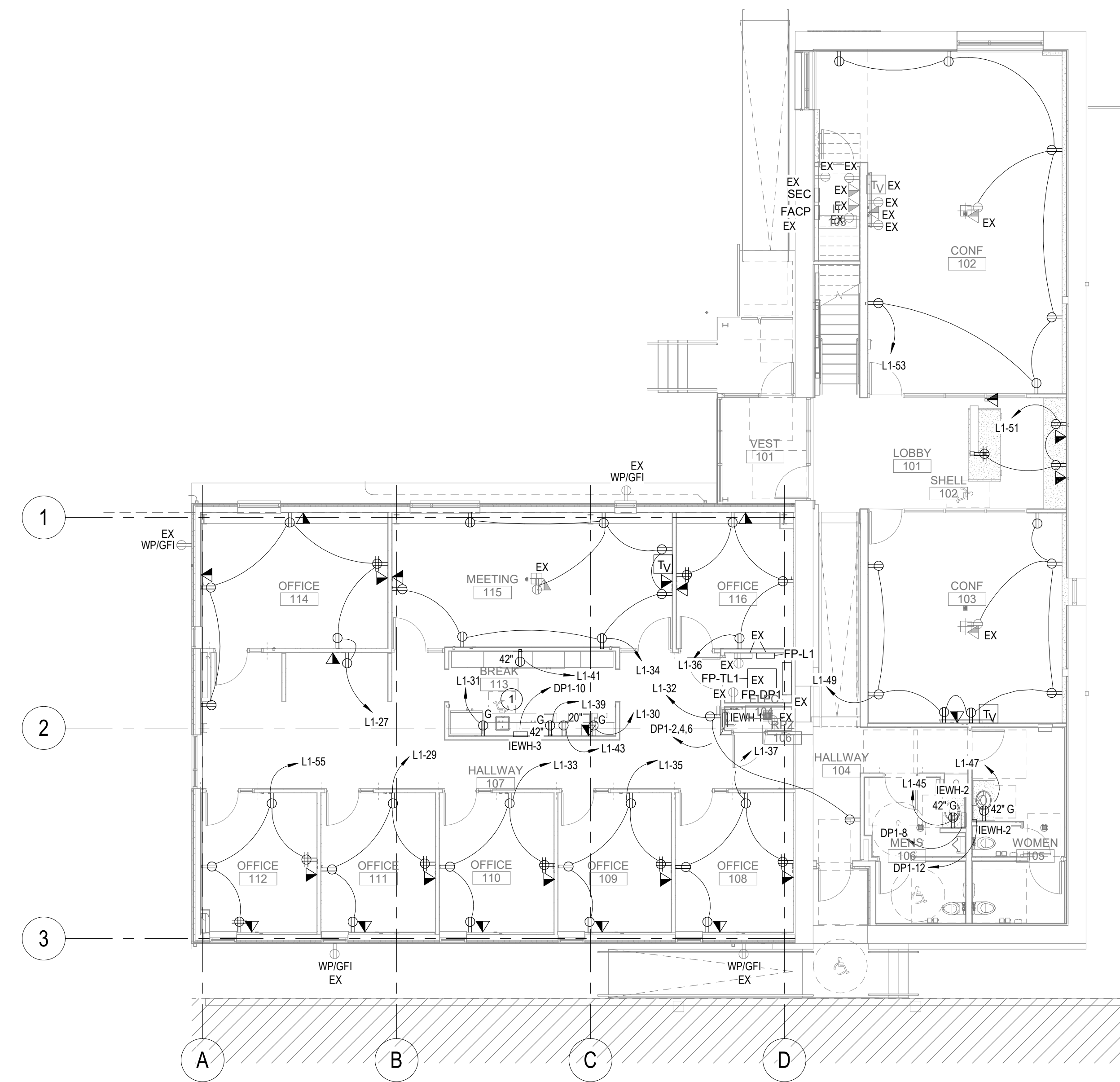
LIGHTING LEVEL 1
PLAN

POWER GENERAL NOTES

1. REFER TO SHEET E0.01 INFORMATION SHEET FOR ELECTRICAL SYMBOL LEGEND, ABBREVIATIONS AND GENERAL NOTES.

E3.01 KEYED NOTES

1. REMOVE EXISTING DISTRIBUTION PANEL. XXXXXXXXXXXXX



1 POWER LEVEL 1 PLAN
1/8" = 1'-0"



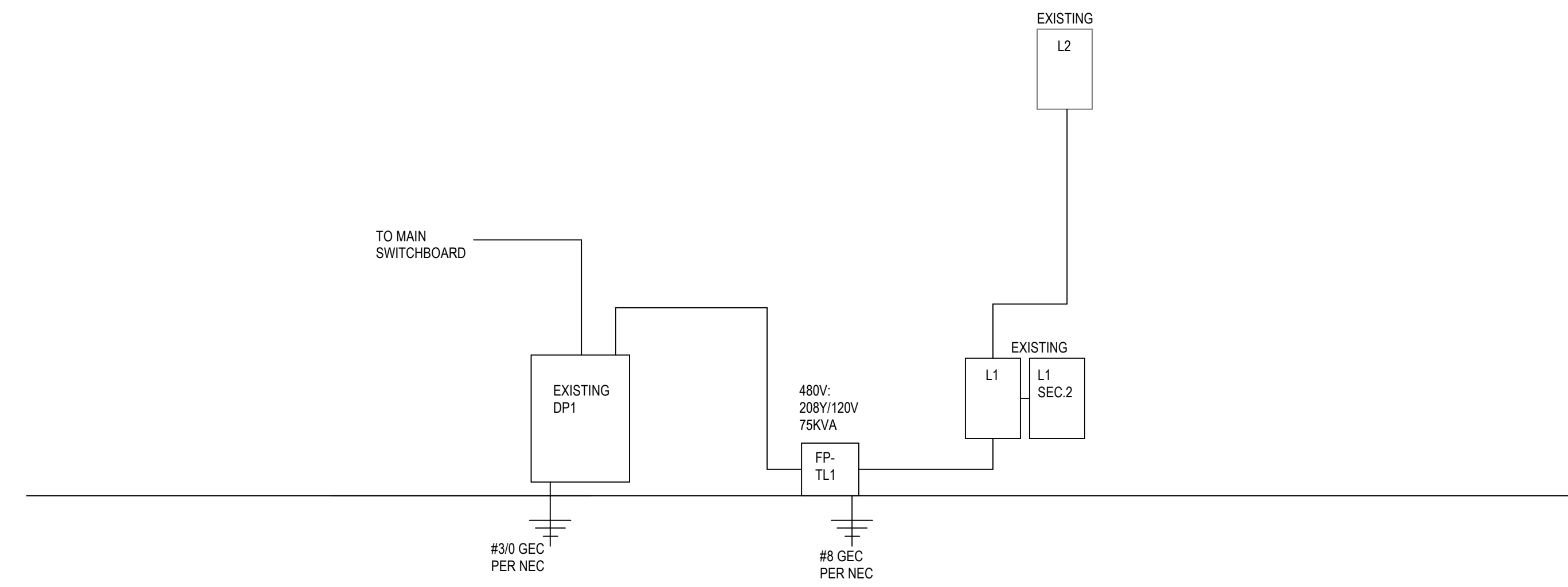
12/01/2021

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THERMAL PLANT
DECOMMISSION_PH 3
THERMAL STORAGE
INTERIOR
IMPROVEMENT

POWER LEVEL 1 PLAN



1 ELECTRICAL ONE-LINE DIAGRAM
1/4" = 1'-0"

PANEL: FP-DP1 (EXISTING)										MOUN. SURFACE		
LOCATL. ELECTRICAL RM										ENCLD. NEMA 1		
480 277 VOLT (L-L/L-N)										AIC. 42,000		
200 AMP MAIN BREAKER												
WITH... 3 PH 4 ...												
FEED-THRU LUGS TO PANELBOARD												
WIRE SIZE*	KVA	LOAD DESCRIPTION	AMP / P	CKT	A	B	C	CKT	AMP / P	LOAD DESCRIPTION	KVA	WIRE SIZE*
4#12, 1#12G, 1/2"	1.66	VAV-1-5	15 / 3	1	X			2	60 / 3	IEWH-1	12.00	3#6, 1#10G, 1"
1/2"	1.66	-	- / -	3	X			4	- / -	-	12.00	-
1/2"	1.66	-	- / -	5	X			6	- / -	-	12.00	-
4#12, 1#12G, 1/2"	0.77	VAV-1-1	15 / 3	7	X			8	20 / 1	IEWH-2	4.10	-
1/2"	0.77	-	- / -	9	X			10	20 / 1	IEWH-3	10.00	2#6, 1#10G, 1"
1/2"	0.77	-	- / -	11	X			12	20 / 1	IEWH-2	4.10	-
4#12, 1#12G, 1/2"	0.83	VAV-1-2	15 / 3	13	X			14	20 / 1	-	-	-
1/2"	0.83	-	- / -	15	X			16	20 / 1	-	-	-
1/2"	0.83	-	- / -	17	X			18	20 / 1	-	-	-
4#12, 1#12G, 1/2"	0.50	VAV-1-3	15 / 3	19	X			20	-	-	-	-
1/2"	0.50	-	- / -	21	X			22	-	-	-	-
1/2"	0.50	-	- / -	23	X			24	-	-	-	-
4#12, 1#12G, 1/2"	1.53	VAV-1-4	15 / 3	25	X			26	-	-	-	-
1/2"	1.53	-	- / -	27	X			28	-	-	-	-
1/2"	1.53	-	- / -	29	X			30	-	-	-	-
4#8, 1#10G, 1"	10.80	RTU-1	50 / 3	31	X			32	-	-	-	-
1"	10.80	-	- / -	33	X			34	-	-	-	-
1"	10.80	-	- / -	35	X			36	-	-	-	-
1"	10.80	-	- / -	37	X			38	125 / 3	Panel FPL1 via XFMR	6.06	RE: One-line
1"	10.80	-	- / -	39	X			40	-	-	6.90	-
1"	10.80	-	- / -	41	X			42	-	-	7.81	-
* ALL BRANCH...												
LIGHTING (KVA)	RCPT (KVA)	MOTORS (KVA)	FIXED... HTG.	KITCH... EQUIP.	OTHER	CONNECTED LOAD (KVA)			PANEL DESIGN LOAD (KVA) AMPS			
0.00	0.00	0.00	9.39	0.00	22.80	A	32.19	32.19	116	116		
0.00	0.00	0.00	15.29	0.00	22.80	B	38.09	38.09	137	137		
4.10	0.00	0.00	5.29	0.00	22.80	C	32.19	33.21	120	120		
4.10	0.00	0.00	29.96	0.00	68.40	...	102.46	103.48	125	125		
125%	+	100% (125% OF LARGEST MOTOR)	100%	100%	100%	...						
NOTES:												
IMMEDIATELY...												
12.48	40.44	2.10	14.00	0.00	8.70	-	65.62	79	0.00	0		
						-	0.00	0	0.00	0		
						-	0.00	0	0.00	0		
						-	0.00	0	0.00	0		
16.58	40.44	2.10	43.96	0.00	77.10		TOTAL DESIGN LOAD: 169.10	203				

PANEL: L2 (EXISTING)										MOUN. SURFACE		
LOCATL. ELECTRICAL RM										ENCLD. NEMA 1		
208 120 VOLT (L-L/L-N)										AIC. 10,000		
225 AMP MAIN BREAKER												
WITH... 3 PH 4 ...												
FEED-THRU LUGS TO PANELBOARD												
WIRE SIZE*	KVA	LOAD DESCRIPTION	AMP / P	CKT	A	B	C	CKT	AMP / P	LOAD DESCRIPTION	KVA	WIRE SIZE*
0.90	Receptacles	20 / 1	1	X				2	20 / 1	Lights	0.80	-
0.90	Receptacles	20 / 1	3	X				4	20 / 1	Lights	0.80	-
0.90	Receptacles	20 / 1	5	X				6	20 / 1	Lights	0.80	-
0.90	Exhaust Fans	20 / 1	7	X				8	20 / 1	Lights	0.80	-
1.50	Microwave	20 / 1	9	X				10	20 / 1	Lights	0.80	-
0.80	Refrigerator	20 / 1	11	X				12	20 / 1	Plotter	1.00	-
0.90	Receptacles	20 / 1	13	X				14	20 / 1	Receptacles	0.90	-
0.90	Receptacles	20 / 1	15	X				16	20 / 1	Receptacles	0.90	-
0.90	Receptacles	20 / 1	17	X				18	60 / 2	Furnace	3.50	2#4, 1#8G,
0.90	Receptacles	20 / 1	19	X				20	-	-	3.50	1-1/2"
0.90	Receptacles	20 / 1	21	X				22	60 / 2	Furnace	3.50	2#4, 1#8G,
0.90	Receptacles	20 / 1	23	X				24	-	-	3.50	1-1/2"
0.90	Receptacles	20 / 1	25	X				26	20 / 1	Receptacles	0.90	-
0.90	Receptacles	20 / 1	27	X				28	20 / 1	Receptacles	0.90	-
0.90	Receptacles	20 / 1	29	X				30	20 / 1	Receptacles	0.90	-
0.90	Receptacles	20 / 1	31	X				32	20 / 1	Receptacles	0.90	-
0.90	Receptacles	20 / 1	33	X				34	20 / 1	Receptacles	0.90	-
1.00	Copier	20 / 1	35	X				36	20 / 1	Receptacles	0.90	-
0.90	Receptacles	20 / 1	37	X				38	20 / 1	Receptacles	0.90	-
0.42	Lighting	20 / 1	39	X				40	-	-	-	-
0.20	Er-1	15 / 1	41	X				42	-	-	-	-
* ALL BRANCH...												
LIGHTING (KVA)	RCPT (KVA)	MOTORS (KVA)	FIXED... HTG.	KITCH... EQUIP.	OTHER	CONNECTED LOAD (KVA)			PANEL DESIGN LOAD (KVA) AMPS			
1.60	9.00	0.90	3.50	0.00	0.00	A	15.00	12.98	108	108		
2.02	7.20	0.00	3.50	0.00	1.50	B	14.22	12.79	107	107		
0.80	5.40	0.20	7.00	0.00	2.80	C	16.20	14.95	125	125		
4.42	21.60	1.10	14.00	0.00	4.30	...	45.42	40.73	113	113		
125%	+	100% (125% OF LARGEST MOTOR)	100%	100%	100%	...						
NOTES:												
IMMEDIATELY...												
4.42	21.60	1.10	14.00	0.00	4.30	-	40.73	113	0.00	0		
						-	0.00	0	0.00	0		
						-	0.00	0	0.00	0		
						-	0.00	0	0.00	0		
4.42	21.60	1.10	14.00	0.00	4.30		TOTAL DESIGN LOAD: 40.73	113				



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PANEL: FPL1 SEC 2 (EXISTING)										MOUN. SURFACE		
LOCATL. ELECTRICAL RM										ENCLD. NEMA 1		
208 120 VOLT (L-L/L-N)										AIC. 10,000		
225 AMP MAIN BREAKER												
WITH... 3 PH 4 ...												
FEED-THRU LUGS TO PANELBOARD												
WIRE SIZE*	KVA	LOAD DESCRIPTION	AMP / P	CKT	A	B	C	CKT	AMP / P	LOAD DESCRIPTION	KVA	WIRE SIZE*
0.18	Receptacles	20 / 1	43	X				44	20 / 1	Lighting	0.84	-
0.18	Receptacles	20 / 1	45	X				46	20 / 1	Lighting	0.64	-
0.18	Receptacles	20 / 1	47	X				48	20 / 1	Lighting	0.66	-
1.62	Receptacles	20 / 1	49	X				50	20 / 1	Lighting	0.42	-
0.54	Receptacles	20 / 1	51	X				52	20 / 1	-	-	-
1.44	Receptacles	20 / 1	53	X				54	20 / 1	-	-	-
0.36	Receptacles	20 / 1	55	X				56	20 / 1	-	-	-
0.20	Irrigation	20 / 1	57	X				58	20 / 1	-	-	-
0.54	Floor Outlets	20 / 1	59	X				60	20 / 1	-	-	-
0.18	Floor Outlets	20 / 1	61	X				62	-	-	-	-
0.36	Floor Outlets	20 / 1	63	X				64	-	-	-	-
0.36	Floor Outlets	20 / 1	65	X				66	-	-	-	-
0.36	Receptacles	20 / 1	67	X				68	-	-	-	-
0.36	Receptacles	20 / 1	69	X				70	-	-	-	-
0.90	Receptacles	20 / 1	71	X				72	-	-	-	-
1.00	Refrigerator	20 / 1	73	X				74	-	-	-	-
0.90	Receptacles	20 / 1	75	X				76	-	-	-	-
0.90	Receptacles	20 / 1	77	X				78	-	-	-	-
0.90	Receptacles	20 / 1	79	X				80	-	-	-	-
0.90	Receptacles	20 / 1	81	X				82	-	-	-	-
0.36	Receptacles	20 / 1	83	X				84	-	-	-	-
* ALL BRANCH...												
LIGHTING (KVA)	RCPT (KVA)	MOTORS (KVA)	FIXED... HTG.	KITCH... EQUIP.	OTHER	CONNECTED LOAD (KVA)			PANEL DESIGN LOAD (KVA) AMPS			
1.26	2.88	0.00	0.00	0.00	0.00	A	4.14	4.46	37	37		
0.64	0.72	0.00	0.00	0.00	0.00	B	1.36	1.52	13	13		
0.66	1.62	0.00	0.00	0.00	0.00	C	2.28	2.44	20	20		
2.56	5.22	0.00	0.00	0.00	0.00	...	7.78	8.42	23	23		
125%	+	100% (125% OF LARGEST MOTOR)	100%	100%	100%	...						
NOTES:												
IMMEDIATELY...												
2.56	5.22	0.00	0.00	0.00	0.00	-	8.42	23	0.00	0		
						-	0.00	0	0.00	0		
						-	0.00	0	0.00	0		
						-	0.00	0	0.00	0		
2.56	5.22	0.00	0.00	0.00	0.00		TOTAL DESIGN LOAD: 8.42	23				

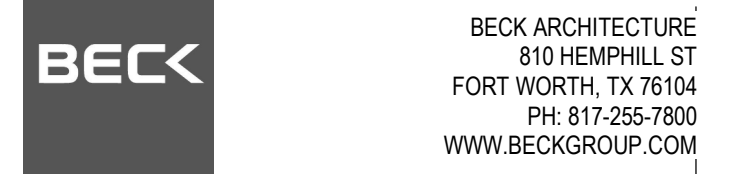
PANEL: FPL1 SEC 1 (EXISTING)										MOUN. SURFACE	
LOCATL. ELECTRICAL RM										ENCLD. NEMA 1	
208 120 VOLT (L-L/L-N)										AIC. 10,000	
225 AMP MAIN											

TENANT IMPROVEMENT LUMINAIRE SCHEDULE

TYPE	DESCRIPTION		MANUFACTURER & SERIES	LIGHT SOURCE	COLOR TEMPERATURE	VOLTAGE	WATTS	DELIVERED LUMENS	MOUNTING	NOTES
B	HIGH PERFORMANCE LINEAR ASYMMETRIC WALLWASH, LOUVERED	INSIGHT	C5X-LO-35K-DL-EXA-18-48-DIM-FINISH-FINISH-LV	LED	3500K	120-277V	14W	1725 LUMENS	WALL	2
F4	2' WIDE LINEAR DIRCT INDIRECT PENDANT WITH A WIDESPREAD DIRECT OPTIC & NANO PRISMATIC LENS, 1.38 SPACING CRITERIA	LUMENWERX	VIA2P-DI-WDO-FH-WIO2-SW-80-350-350-35-4FT-UNV-D1-1C-ACC(3NPS-120-B-PCB-NA)-FINISH	LED	3500K	120-277V	11W/FT	700 LUM/FT	PENDANT	1
G8	2' WIDE LINEAR DIRCT INDIRECT PENDANT WITH A WIDESPREAD DIRECT OPTIC & NANO PRISMATIC LENS, 1.38 SPACING CRITERIA	LUMENWERX	VIA2P-DI-WDO-FH-WIO2-SW-80-500-350-35-8FT-UNV-D1-1C-ACC(3NPS-120-B-PCB-NA)-FINISH	LED	3500K	120-277V	11W/FT	700 LUM/FT	PENDANT	1
J	LINEAR SUSPENDED DECORATIVE PENDANT WITH VISUAL VOID, 40/60 DISTRIBUTION, POWER OVER AIRCRAFT CABLE	FOCAL POINT	FNRS-FL40-1000LF-35K-1C-UNV-L11-G-CLV48-PS-4	LED	3500K	120-277V	38W	1000 LUMENS	PENDANT	1
M1	LOW PROFILE 3.5" ROUND DOWNLIGHT, 2 STEP SCDM, 50 DEG CUT-OFF, ROUND DIE-CAST TIME, WIDE FLOOD OPTIC	FOCAL POINT	FLC3D-RO-SW-700L-UNV-L11-T-LC3-RO-700L-35K-DNT-VWFL-CD-WT	LED	3500K	120-277V	16W	1300 LUMENS	RECESSED	
M2	LOW PROFILE 3.5" ROUND DOWNLIGHT, 2 STEP SCDM, 50 DEG CUT-OFF, ROUND DIE-CAST TIME, WIDE FLOOD OPTIC	FOCAL POINT	FLC3D-RO-SW-1300L-UNV-L11-T-LC3-RO-1300L-35K-DNT-VWFL-CD-WT	LED	3500K	120-277V	16W	1300 LUMENS	RECESSED	
R	2X2 TROFFER WITH SMOOTH ROUNDED CENTER CHANNEL	COLUMBIA	LCAT22-35LWG-ED1U	LED	3500K	120-277V	21W	2768 LUMENS	RECESSED	
UC	UNDERCABINET LIGHT. REFER TO PLANS FOR LENGTH	COLUMBIA	CUC(X)-ED120	LED	3500K	120	5W/FT	450 LUMENS/FT	SURFACE	2

GENERAL NOTES:
A. CONFIRM FINISH WITH ARCHITECT
B. CONTACT MARK TOUSSAINT WITH HOSSLEY LIGHTING FOR ADDITIONAL INFORMATION

NOTES:
1. REFER TO DRAWINGS FOR LENGTH
2. LOCATE REMOTE DRIVER IN ACCESSIBLE LOCATION



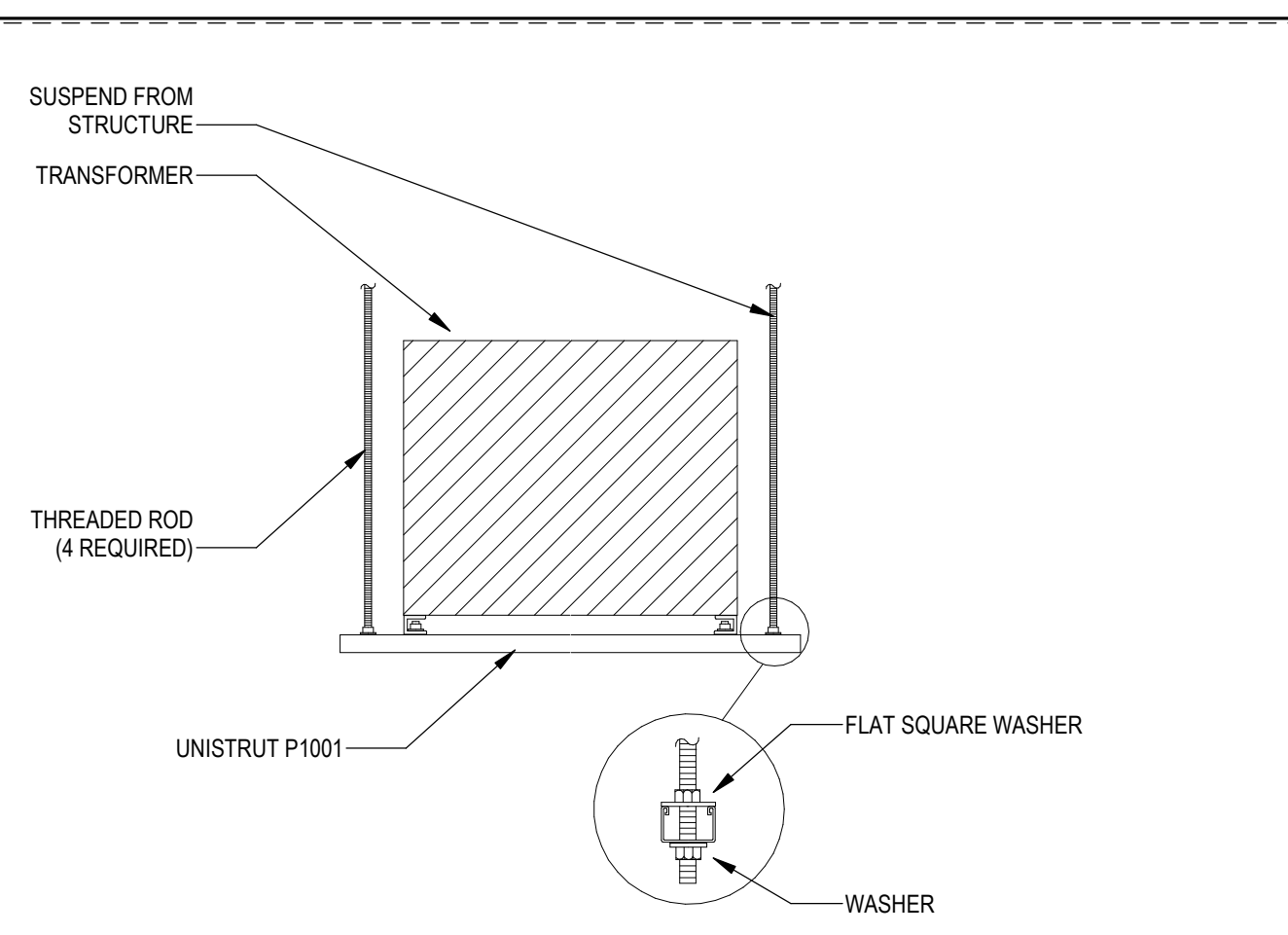
12/01/2021

CURRENT SUBMISSION:

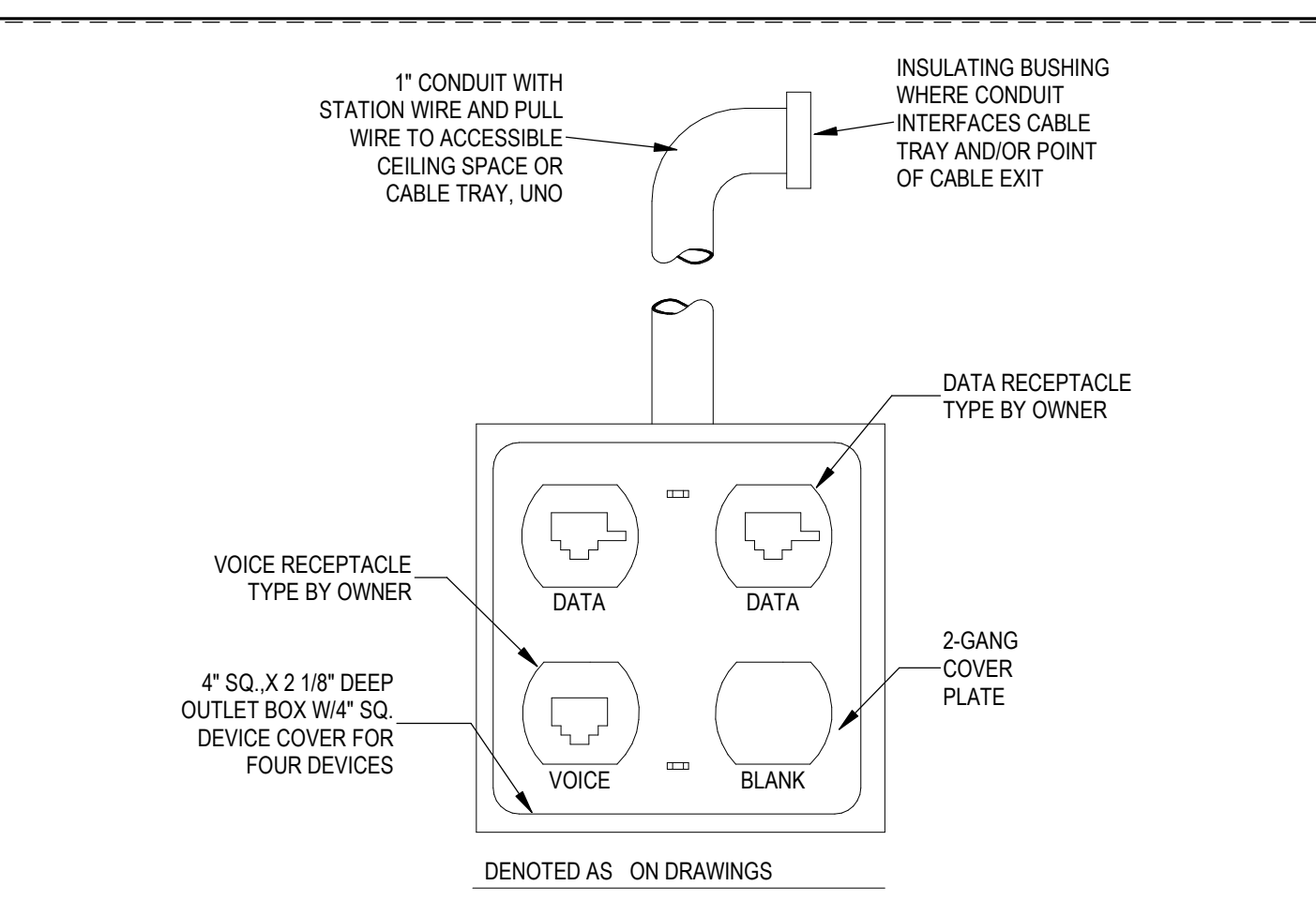
#	DATE	SUBMISSION
1	12/01/21	CONSTRUCTION DOCUMENTS

**THERMAL PLANT
DECOMMISSION_PH 3
THERMAL STORAGE
INTERIOR
IMPROVEMENT**

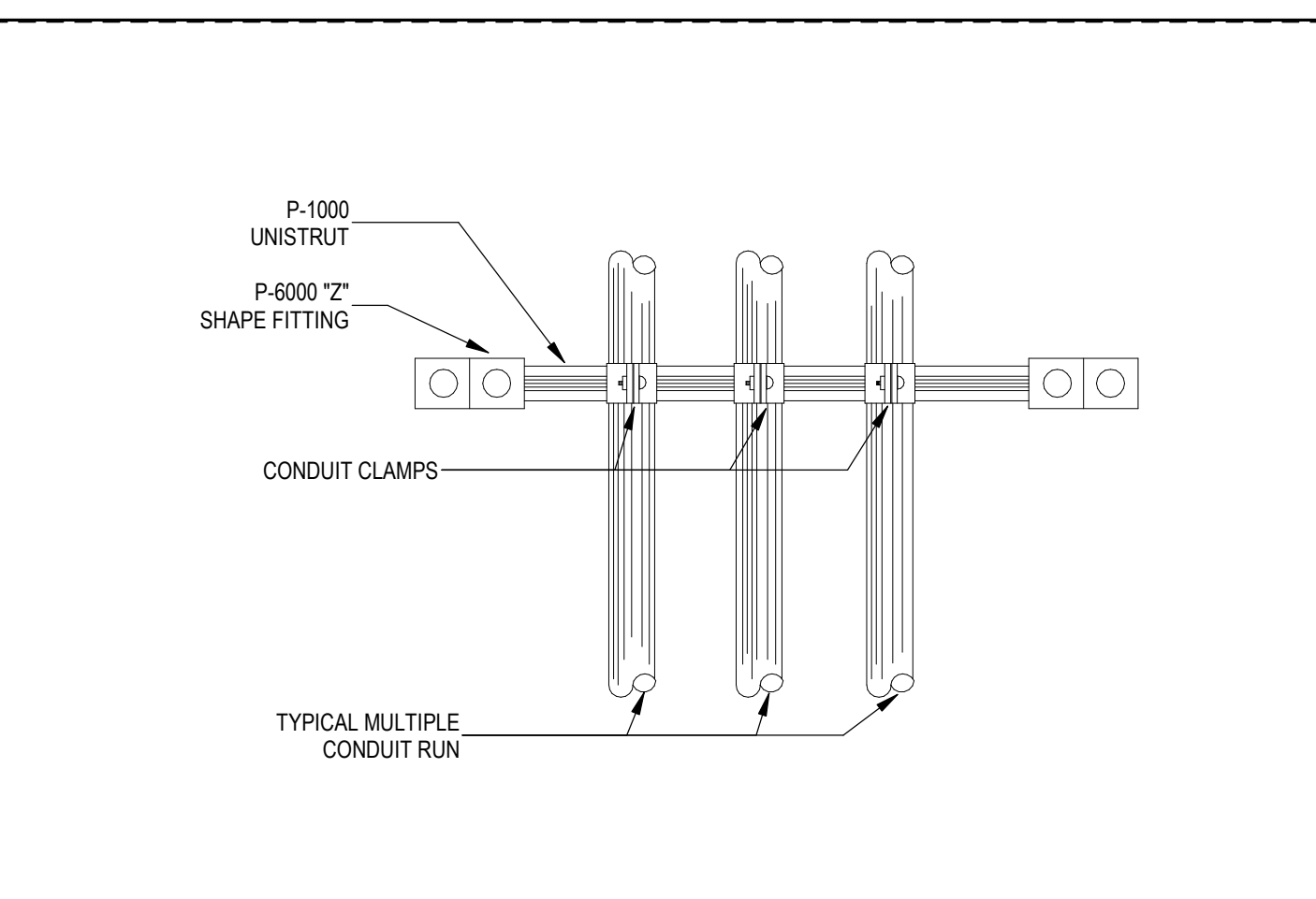
**ELECTRICAL
SCHEDULES**



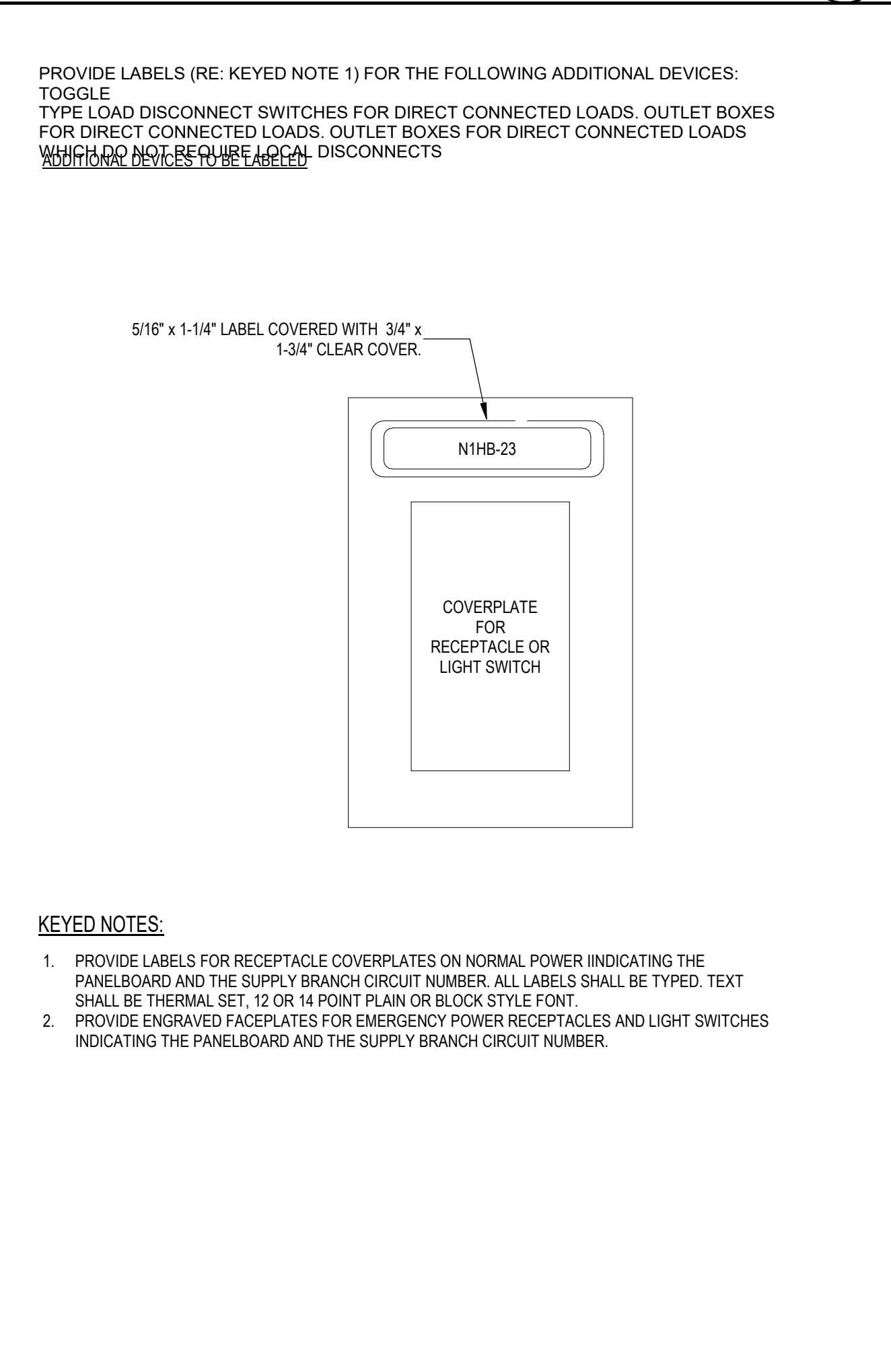
TRANSFORMER MOUNTING DETAIL 13



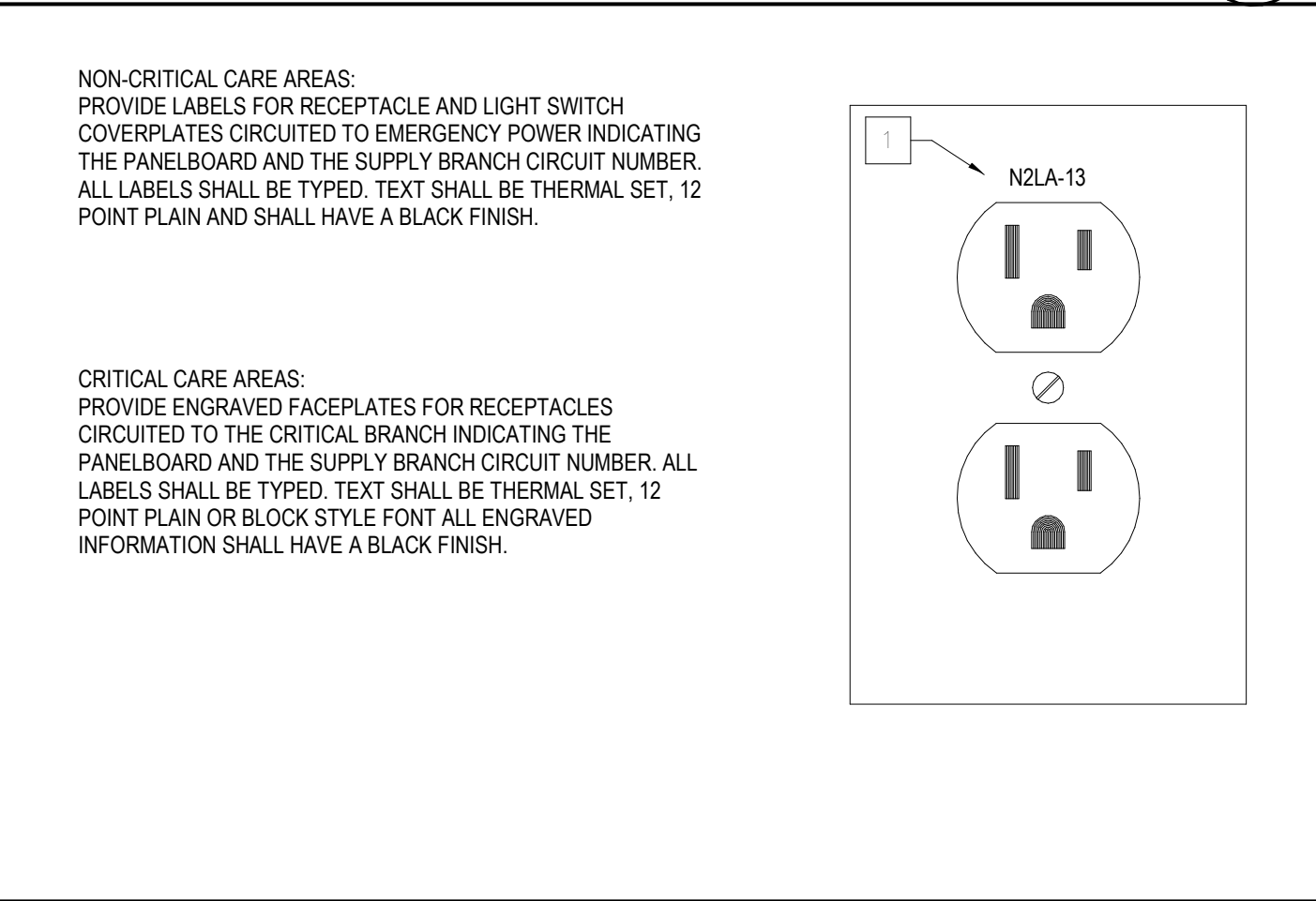
TYPICAL VOICE/DATA COMBINATION DEVICE 10



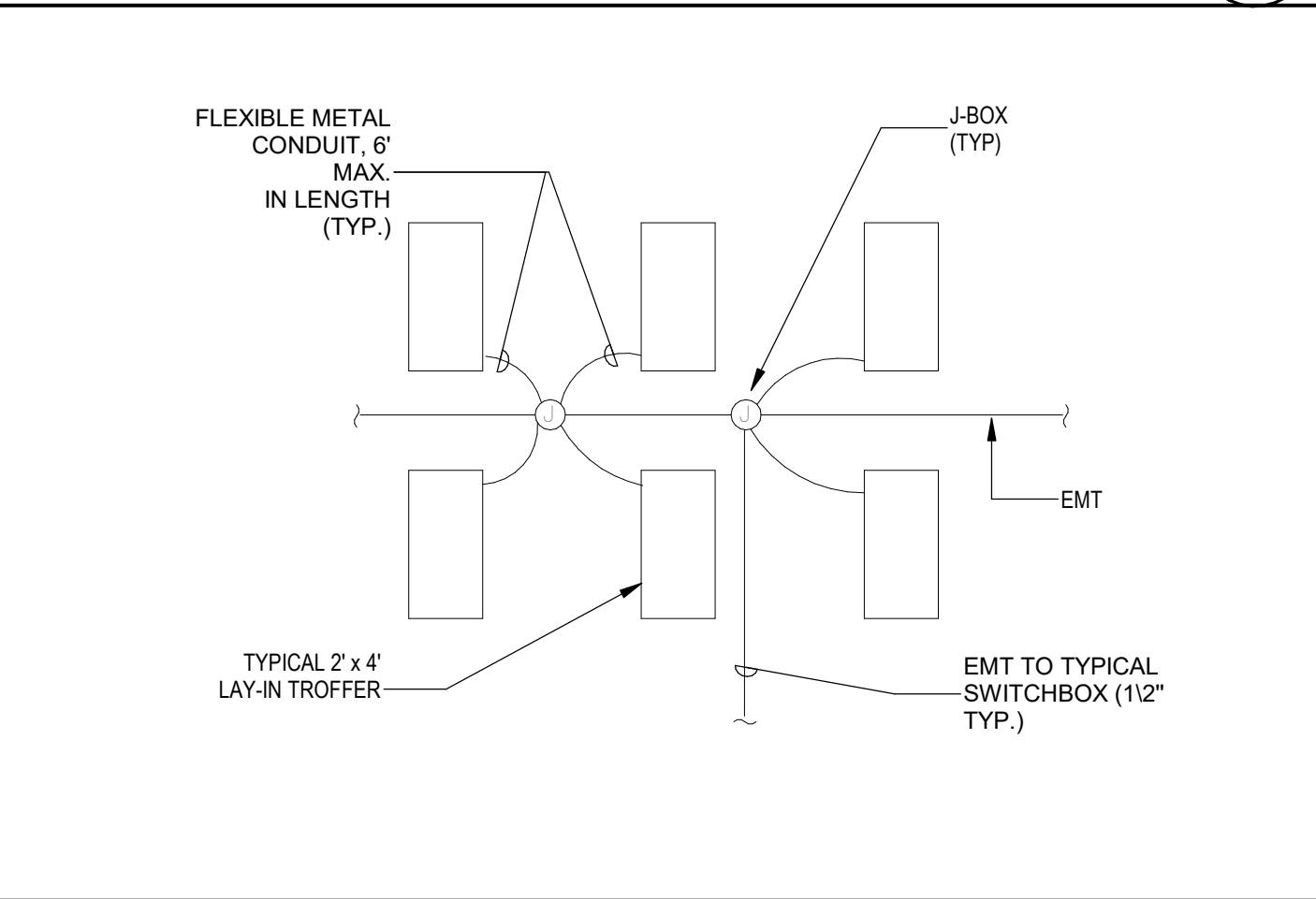
WALL MOUNTED CONDUIT SUPPORT DETAIL 5



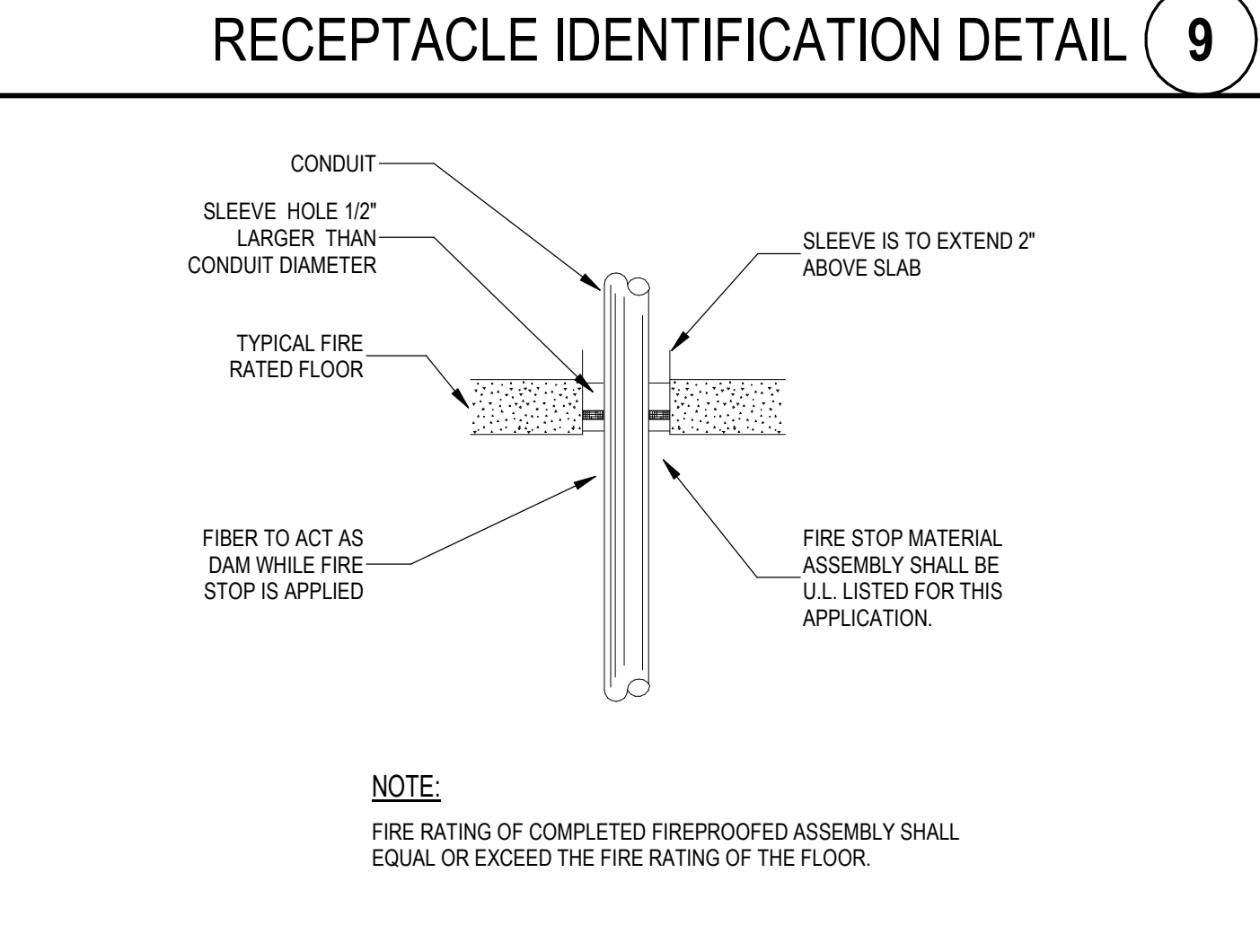
ELECTRICAL DEVICE IDENTIFICATION 12



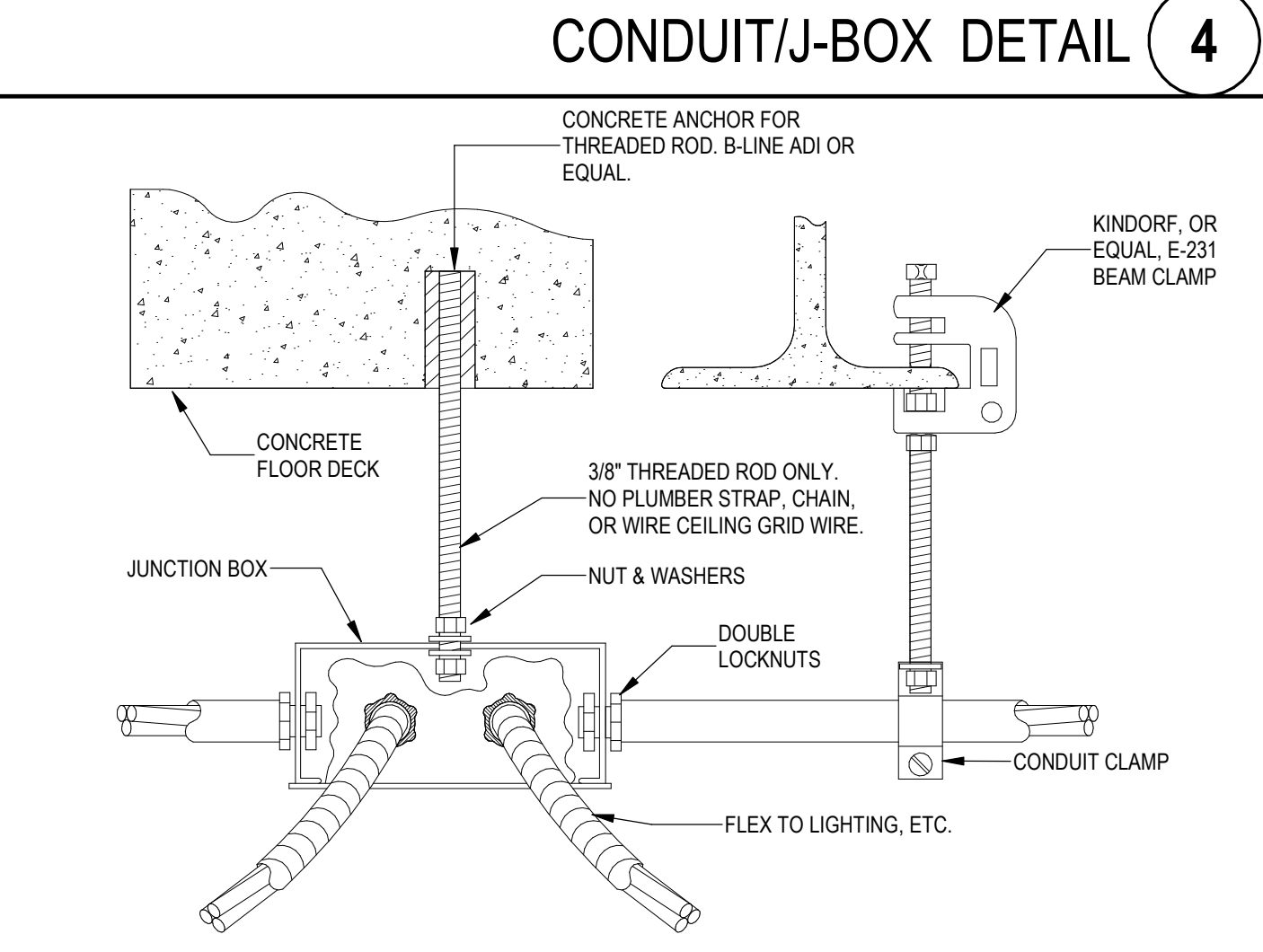
RECEPTACLE IDENTIFICATION DETAIL 9



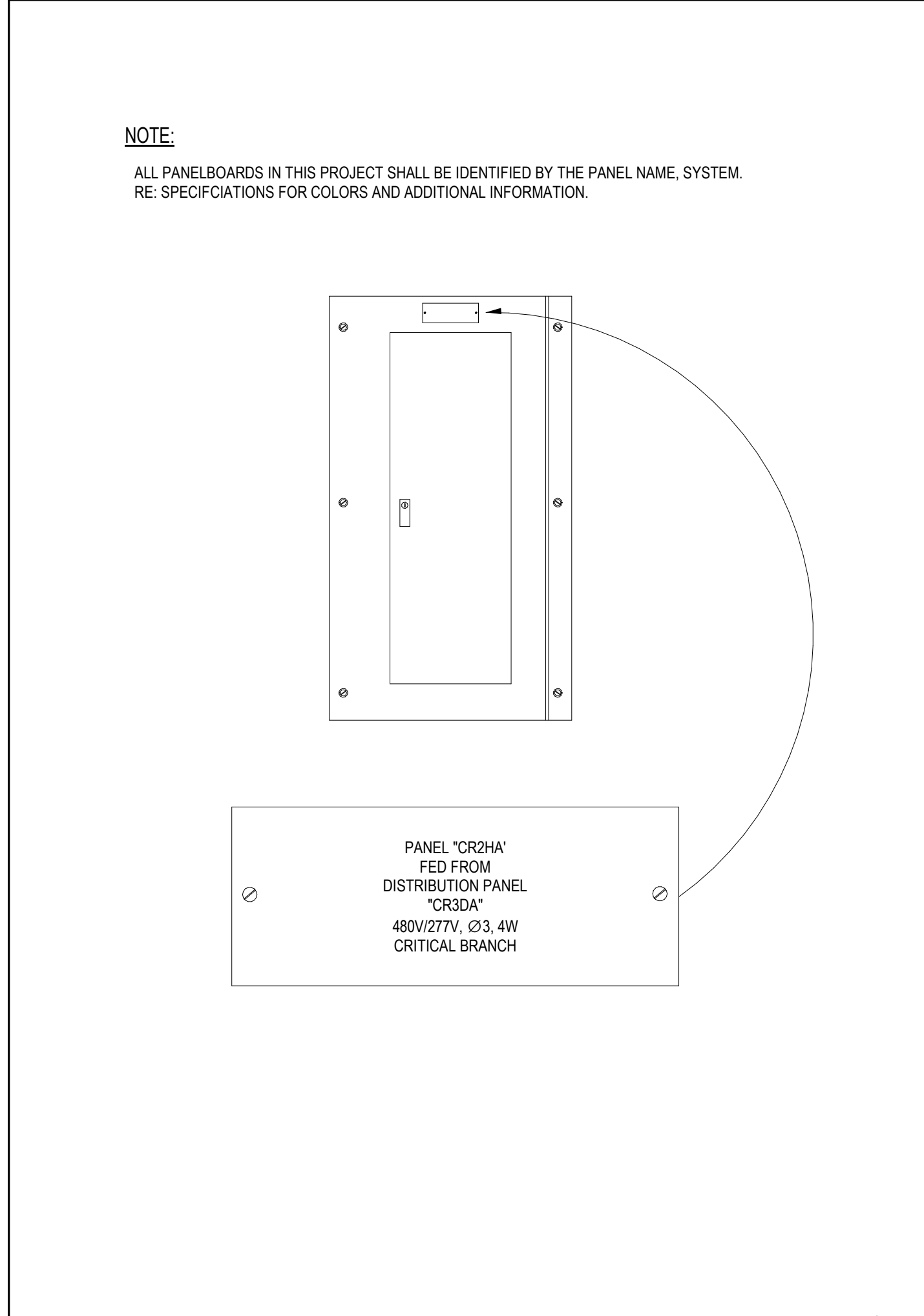
CONDUIT/J-BOX DETAIL 4



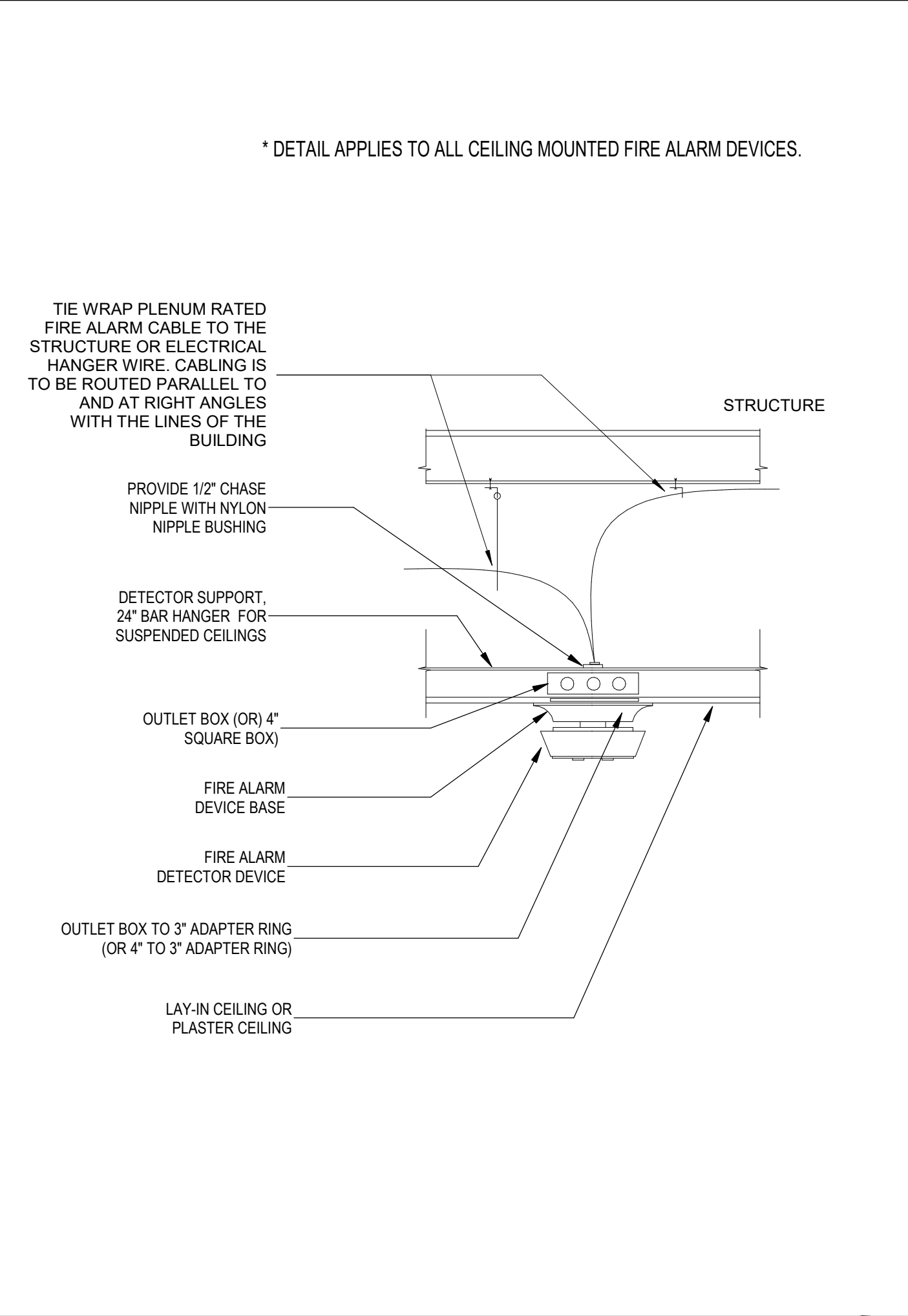
FLOOR PENETRATION DETAIL 8



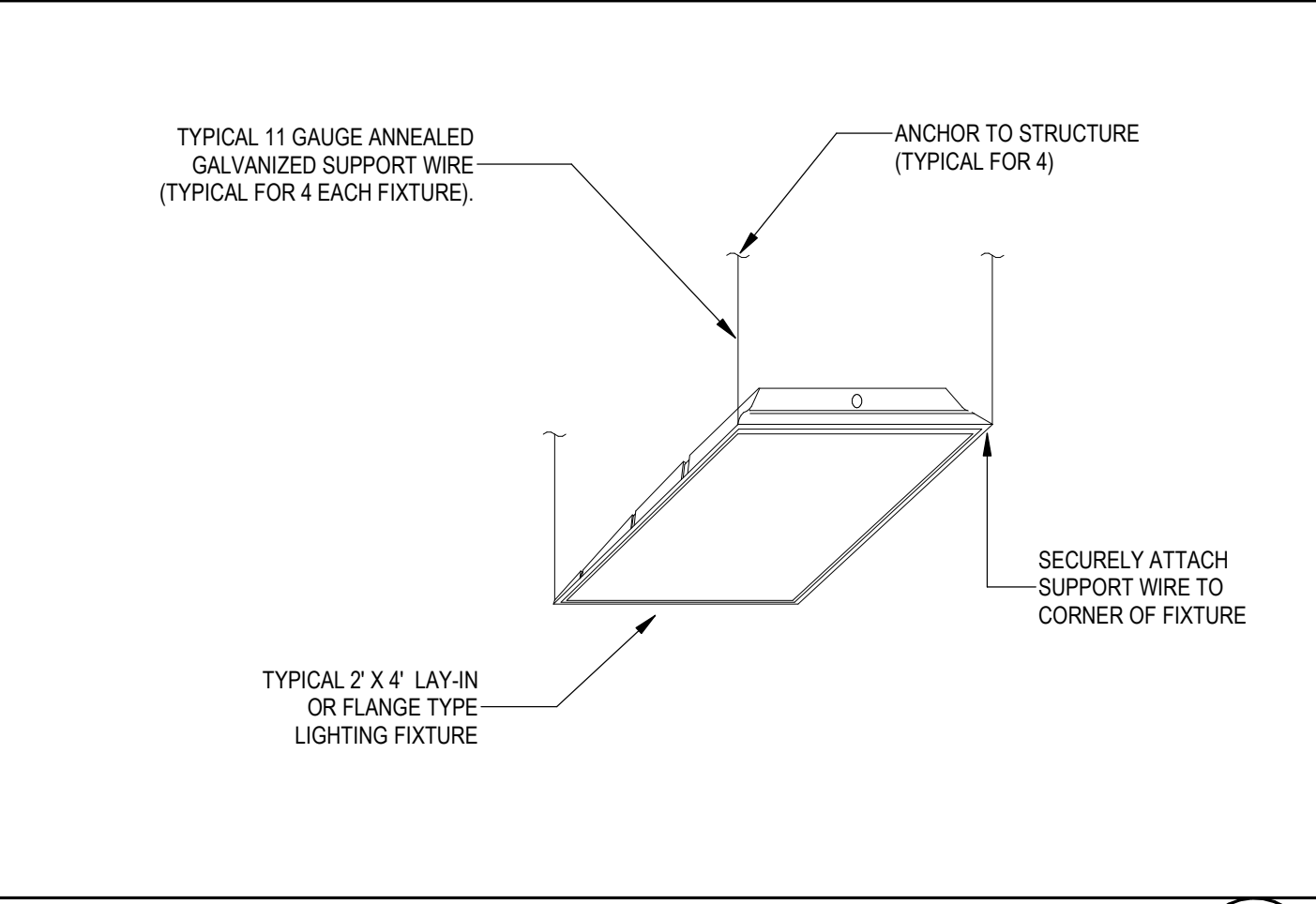
CONDUIT/BOX MOUNTING DETAIL 3



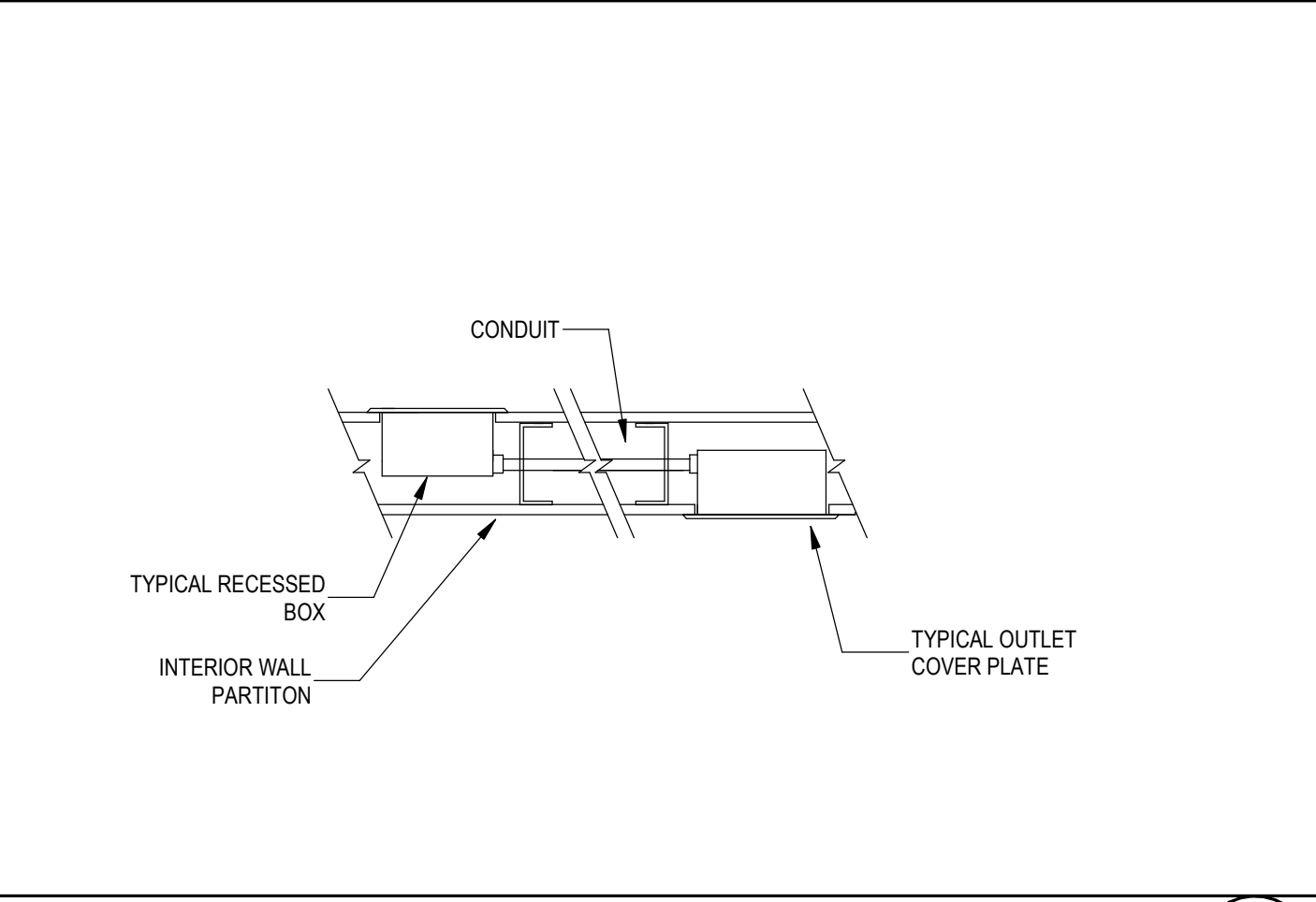
TYPICAL PANELBOARD IDENTIFICATION 14



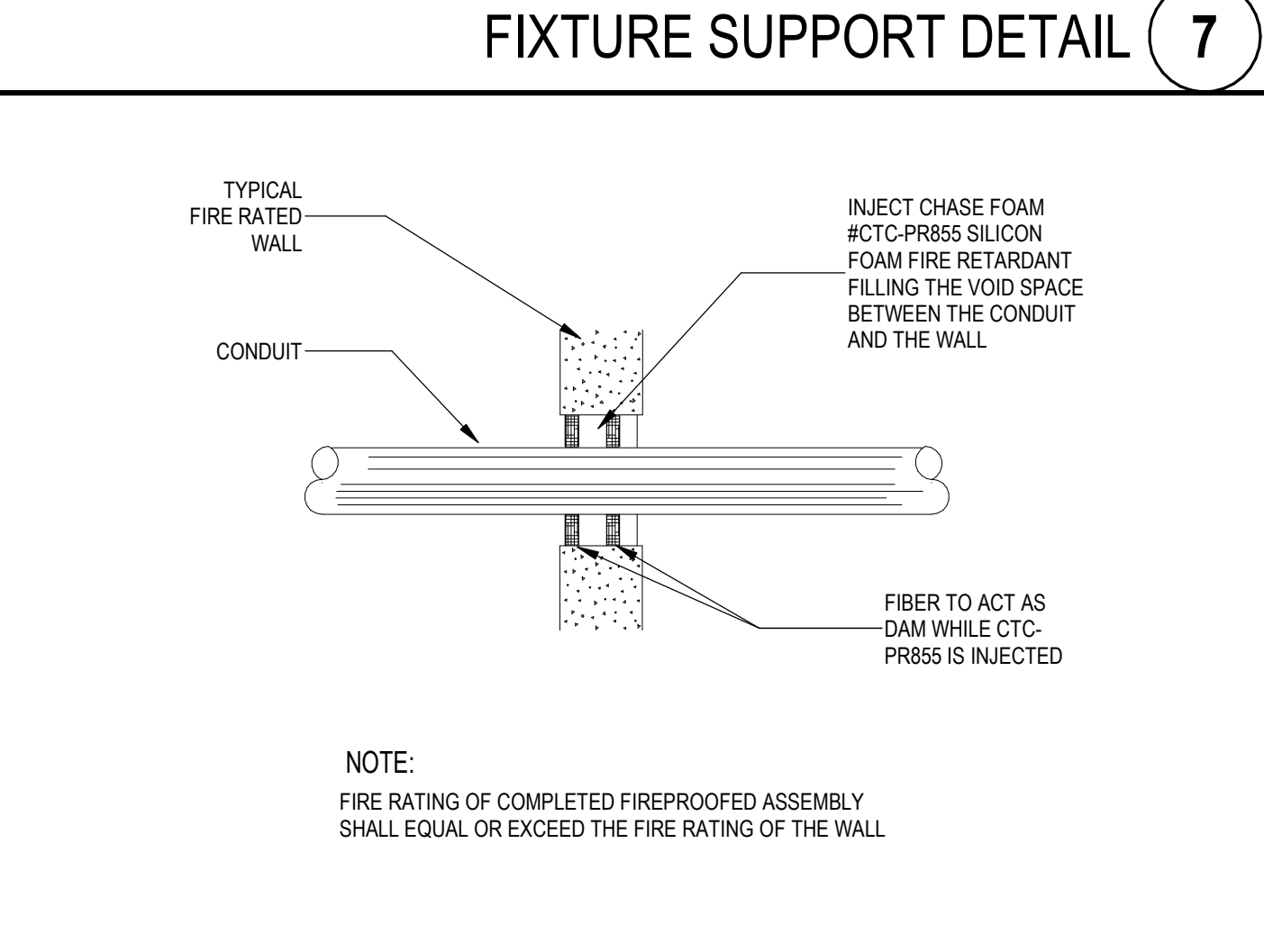
SMOKE DETECTOR MOUNTING DETAIL 11



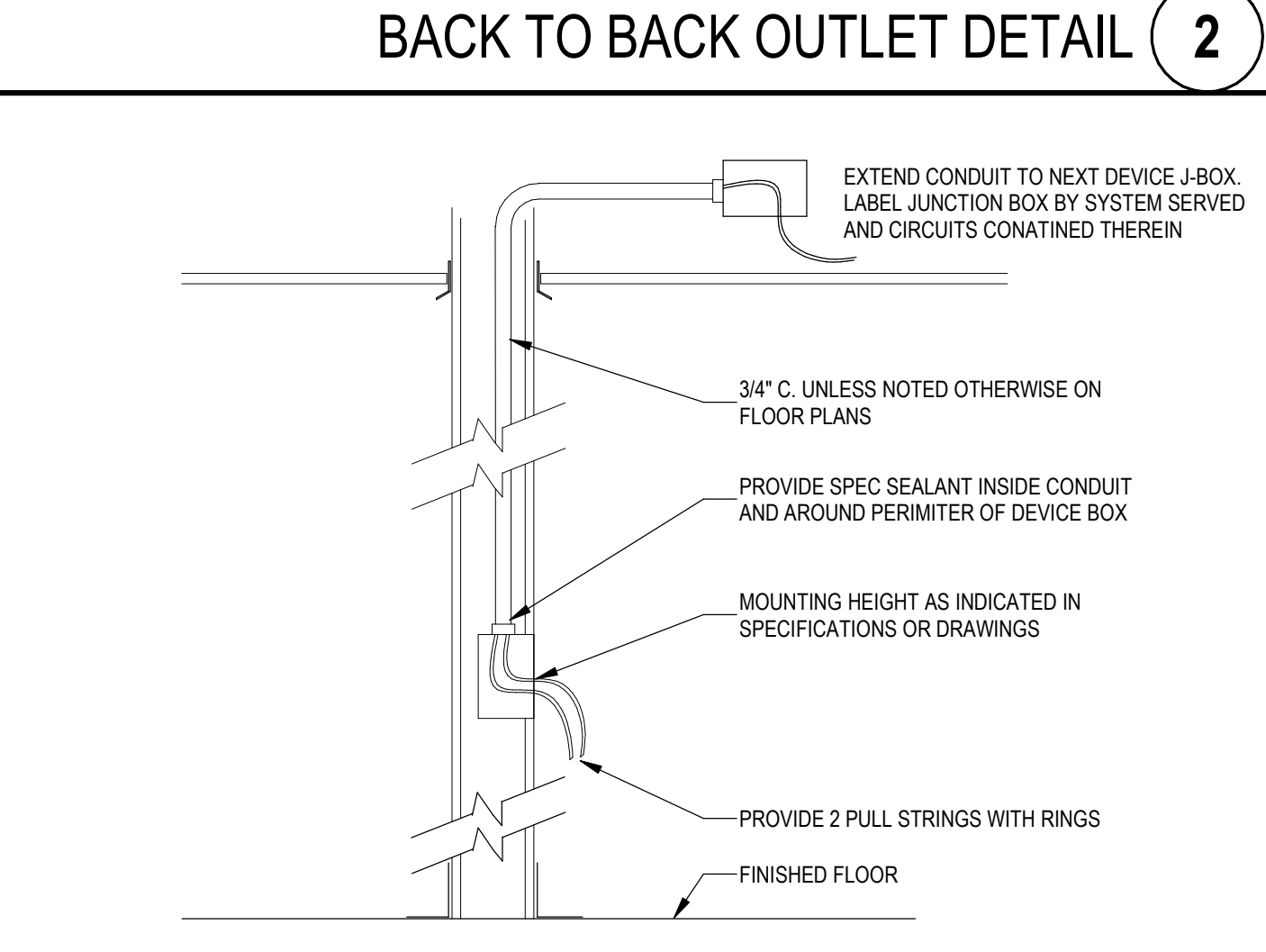
FIXTURE SUPPORT DETAIL 7



BACK TO BACK OUTLET DETAIL 2



FIRE WALL PENETRATION DETAIL 6



BACK BOX AND CONDUIT STUB-UP DETAIL 1



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CURRENT SUBMISSION:

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