



ADDENDUM

JLG 24146.01-5 Dunn County Public Safety Center

RE: addendum

Issued: November 7, 2025

ADDENDUM #: 02

NOTICE TO CONTRACTORS

This Addendum is prepared to supplement information presented in the Drawings and Project Manual dated October 21, 2025 for the above referenced project. All additions, changes, omissions and conditions listed herein shall become an integral part of the Contract Documents.

SPECIFICATIONS

1. SECTION 07 4213 – METAL WALL PANELS
 - o Revise paragraph 2.02.B. and subparagraphs as follows:
 - B. Interior Aluminum Metal Wall Panels (MET FAB-11):
 - 1. Basis of Design: Face Fastened System by PURE+FREEFORM: www.purefreeform.com.
 - o a. Finish: Blackened Steel, Gun Metal #GP040
 - o b. Fastening: Face fastened system, exposed fasteners, large fasteners
 - o c. Aluminum Thickness: 2 mm.
 - o d. Texture: Smooth.
 - o e. Size: As indicated on drawings.
 - 2. Material: Precoated steel sheet, 22 gauge, 0.0299 inch (0.76 mm) minimum thickness.
2. SECTION 08 5653 – SECURITY WINDOWS
 - o Remove paragraph 2.02 Security Transaction Windows in its entirety.
3. SECTION 08 7105 – HARDWARE GROUPS
 - o Replace section in its entirety.
 - o Revise hardware groups 11.0 and 238.0 as shown.
4. SECTION 11 6723 – SHOOTING RANGE EQUIPMENT
 - o Remove paragraph 2.02.A.5. and 2.02.A.6. Bullet trap height should be 9 feet.
 - o Revise paragraph 2.03.A.a. to read “Color: TBD from manufacturer’s full range of colors.
 - o Remove paragraph 2.03.A.b., 2.03.A.c., and 2.03.A.d. Renumber subsequent paragraphs.
 - o Remove paragraph 2.06.B.2.n.

APPROVED EQUALS

The following products have been approved for use on this project. All approved products must still meet all product specifications as listed in the product specification section.

Section	Material ID or description	Basis of Design	Approved Equal
11 6723 – Shooting Range Equipment	Baffles and Guards, Shooting Stall, Target System, Bullet Trap, Range Controls,	InVeris Training Solutions: Air-space Baffles, Model SafeZone, XWT Wireless Monorail, GranTrap, Model LE7500-OT, RangeMaster 9000, RM9K,	Action Target: Ceiling & Wall Baffles, Guardsmen Stall, Pilot, Rubber Berm Trap, Smartrange Axis,
09 8430 – Sound Absorbing Wall and Ceiling Units	Acoustic Wall and Ceiling Panels	Acoustical Surfaces, Inc, Enviroacoustic	Action Target: PEPP ceiling panels

DRAWINGS

1. A200 – BASEMENT FLOOR PLAN
 - o Remove SF1 opening from A006 Shooting Lanes.
2. A211 – ENLARGED PLANS AND ELEVATIONS
 - o Replace sheet in its entirety.
 - o Turned on grids and updated dimensions.
 - o Drawing 1E & 5E: Add electric hand dryer (HAND DRY-1) as shown in plan and elevation.
 - o Drawing 3D & 3E: Revise shower note to read “Fiberglass shower surround, see plumbing”. Add material id tag on grab bar as shown.
 - o Sheet Spec ID List: Add grab bar (GB-24) to list as shown.
3. A212 – ENLARGED PLANS AND ELEVATIONS
 - o Replace sheet in its entirety.
 - o Turned on grids and updated dimensions.
 - o Drawing 4B: Revise sink to a two basin sink in lieu of a single basin sink as shown, see plumbing drawings for more information.
 - o Drawing 4E: Add grommet and keynote 02 to desk as shown.
 - o Keynotes – Interior Elev.: Add keynote 02 to read “Provide grommet in counter; verify location with owner.”
4. A213 – ENLARGED PLANS AND ELEVATIONS
 - o Replace sheet in its entirety.
 - o Turned on grids and updated dimensions.
 - o Drawing 7A: Revised reception desk as shown.
 - o Drawing 6D: Revise reception desk elevation as shown and added desk details.
 - o Drawing 5D, 6D, 7D, & 5E: Revised paint locations and updated window shade locations.
5. A214 – ENLARGED PLANS AND ELEVATIONS
 - o Replace sheet in its entirety.
 - o Turned on grids and updated dimensions.
 - o Drawing 4A:
 - Add keynote 27 at Break Room A213 island.
 - Revise Office A209 reception desk as shown.
 - o Keynotes – Floor Plan: Add keynote 27 to read: “Counter mount pop-up style power receptacle, see electrical. Verify location with architect.”

6. A220 – DOOR SCHEDULE AND FRAME TYPES

- o Replace sheet in its entirety.
- o Door Schedule:
 - Add comment to door 104B at Sheriff's Lobby to read "bullet resistant door".
 - Revise duplicate Elevator door number "A003" to "EL-01".
 - Revise Stair B door STB-1A AND STB-2 frame and door material from "AL" to "HM". Revise door and frame finish from "PREFIN" to "PT-3".
 - Revise Stair B door STB-1A door hardware group to "38.0".
- o Door Types:
 - Revise stile width from "6" to "8" inches as shown for door types: F, G, and N.

7. A310 – GLAZING ELEVATIONS

- o Replace sheet in its entirety.
- o Drawing 9A: Remove SF1 drawing in its entirety.
- o Drawing 4B & 5B: Revise Sherif reception glazing SF13 and SF14 as shown.
- o Drawing 4C & 5C: Revise Public Health reception glazing SF22 and SF23 as shown.

8. A312 – GLAZING DETAILS

- o Replace sheet in its entirety.
- o Drawing 4A, 7C, & 6D: Added note to continue finish into jamb of precast veneer PC PNL-2.

9. A600 – FINISH / SPEC INFORMATION

- o Replace sheet in its entirety.
- o Finish Schedule:
 - Remove Division 05 – Metals from schedule. Both (MET FAB-10) and (MET FAB-11) product information is in Project Manual.
 - Add Linear Metal Ceilings (09 5423) with material ID MCT-1.
 - Revise wall protection WP-1 to section Protection – Wall and Door (10 2600).

10. A620 – CASEWORK SCHEDULE

- o Replace sheet in its entirety.
- o Drawing 4D & 5D: Remove details in their entirety.
- o Drawing 4C & 5C: Revise Sheriff Reception desk high and low details as shown.
- o Drawing 2D 7 3D: Add details of Public Health Reception desk in their entirety.

ATTACHMENTS

1. Dunn Co – Question Log
2. Section 08 7105 – Hardware Groups
3. Architectural drawing sheets: A211, A212, A213, A214, A220, A310, A312, A600, A620
4. Mechanical Addendum
5. Electrical Addendum

END OF ADDENDUM

PLAN AND SPECIFICATION QUESTIONS						Architect/Engineer remarks in red.	
Project Name:		Dunn County Courthouse Remodel & Public Safety Center					
Architect:		JLG Architects					
Bid Date:		November 13, 2025					
Question#	Building	Plan Sheet / Specification	Date of Question	Date of Answer	Discipline	Questions/Clarifications	Response
1	Public Safety Center		10/27/25	11/04/25	ACT	Substitution Request: ACT-1 – Public Safety Center: -Specified: Armstrong Ultima High-NRC #1942 -Proposed: USG Mars High-NRC #87100 ACT-2 – Public Safety Center: -Specified: Armstrong Cirrus Second Look #511 -Proposed: USG Eclipse Illusion #78085 (VE Alternate option – scoring for specified not available from USG) WWAP-1—3 – Public Safety Center: -Specified: Wood Wool Lay-In Ceiling Panels and Wall Panels -Proposed: Tectum Lay-In Ceiling Panels & Wall Panels WCS-1 – Public Safety Center: -Specified: Armstrong Woodworks Linear -Proposed: 5th Wall Designs Linear	ACT-1, WWAP-1, WWAP-2, WWAP-3 will be included in Addendum 1. ACT-2 was not accepted. WCS-1 will be address via future addendum.
2	Courthouse		10/27/25	11/04/25	ACT	ACT-1 & 2 – Courthouse: -Specified: Armstrong Optima – 2x2 & 2x6, 9/16” tegular -Proposed: Option 1 (equal): USG Halcyon #98225 & #98348 Option 2 (VE Alt): USG Mars High-NRC #88139 & #89678	No Substitutions are allowed. We are matching existing spaces and attic stock.
3	Public Safety Center	095426	10/28/25	11/04/25	ACT	Substitution request for Linear Wood Ceiling WCS-1: ASI Architectural Wood Linear	Still reviewing. To be address via future addendum.
4	Public Safety Center		10/28/25	11/07/25	Firing Range	Substitution Request: Action Target	Products will be noted as approved equals in addendum.
5	Public Safety Center		10/28/25	11/04/25	Earthwork	Can bidders received the Civil CAD files?	Per drawing C001 Civil Notes and Legends, Civil CAD files will be provided if the attached CAD Plan Files Disclaimer form is filled out and returned.
6	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	Opening A003 is labeled twice on the door schedule and labeled twice on the floor plans. Please review and update door schedule and floor plans so each opening has a unique opening #.	Elevator door tag to be modified to EL-01. Updated door schedule to be issued via future addendum.
7	Public Safety Center		10/28/25	11/07/25	JE Dunn DFH QA/QC	Openings STB-1A and STB-2 are scheduled as aluminum door and frames. These openings are also scheduled as 60 minute fire rated. The project manual does not have a specification for fire rated aluminum doors and frames. Please review and confirm if these openings should be aluminum or hollow metal?	These doors will be 60 minutes and hollow metal doors. Revision to be issued via addendum
8	Courthouse		10/28/25	11/07/25	JE Dunn DFH QA/QC	Opening 163B is missing a hardware set assignment. Please advise what hardware set this opening should be assigned to.	Hardware group E18.2, to be addressed via addendum.
9	Courthouse		10/28/25	11/07/25	JE Dunn DFH QA/QC	Opening E110B is shown on the floor plans (6A / A201) but not listed on the door schedule. Per the floor plan notes this opening is required to receive new hardware. Please confirm what hardware set this opening should be assigned to.	Door added to door schedule and will be issued via addendum. Hardware group E18.0.
10	Public Safety Center / Courthouse		10/28/25	11/04/25	JE Dunn DFH QA/QC	Elevations F5, G, and H indicate the vertical air dimension is 8". This is to avoid hardware mounting conflicts with the lite and maintain the wood door manufacturer's warranty this dimension needs to be enlarged to 8". Please confirm that this is	8" is acceptable. To be address via future addendum.
11	Public Safety Center		10/28/25	11/04/25	JE Dunn DFH QA/QC	The wood door specifications make a reference to bullet resistant doors, but the door schedule does not indicate that any of the doors are to be bullet resistant. Please confirm that none of the doors are required to be bullet resistant.	Door A104B will be updated to a bullet resistant door. To be address via future addendum.
12	Public Safety Center		10/28/25	11/07/25	JE Dunn DFH QA/QC	Please confirm if the wood doors are required to be FSC Certified or not.	Yes, they should be FDC Certified wood.
13	Courthouse		10/28/25	11/04/25	JE Dunn DFH QA/QC	The courthouse remodel specifications only list Forte as an approved wood door manufacturer. We have had quality issues with this manufacturer. The public safety center specifications list other manufacturers as approved. Please confirm the approved manufacturers in the Public Safety Center are acceptable at the Courthouse	For the Courthouse, the intent is to match existing. The material schedule on A600 calls out Masonite Architectural, Aspiro series, White Maple - Caramel to match existing. This would be preferred. Otherwise as long as the stain can match exactly, we're open to other preferred manufacturers.
14	Courthouse		10/28/25	11/07/25	JE Dunn DFH QA/QC	The courthouse specifications do not indicate what veneer is required. The specifications only say White. Please confirm that the specifications should specify White Birch doors to match the specifications for the public safety center. Please confirm if the wood doors are required to be FSC Certified or not.	White maple veneer to match existing doors at the Courthouse. Will be revised via addendum. Door specifications are different between PSC and Courthouse. Wood doors are to be FSC certified.
15	Public Safety Center		10/28/25	11/07/25	JE Dunn DFH QA/QC	Opening A104A / Hardware Set 11.0 – The hardware set indicates that a wall stop is required, but this opening has a glass side lite that will not allow a wall stop to be used. Please confirm that a closer with a built in stop should be specified in lieu of a wall stop.	Hardware group has been updated to remove wall stop and include overhead stop.
16	Public Safety Center		10/28/25	11/07/25	JE Dunn DFH QA/QC	Opening STB-2 / Hardware Set 38.0 – The hardware set specifies an electric strike, and this opening is also fire rated. Because of the fire rating, the electric strike will fail secure, so when the fire alarm is activated, this door will remain locked preventing stairwell re-entry. Please review and confirm this this is the desired function of this opening.	This is panic hardware so Training Room can always egress into the stair. One cannot enter from the stairwell into the training room just like normal function. A person who has a card can still access training room.
17	Public Safety Center		10/28/25	11/07/25	JE Dunn DFH QA/QC	Opening A101A / Hardware Set 238.0 – The system plans (E401) indicate that an automatic door operator is required, but the hardware schedule does not specify an automatic door operator. Please confirm if an automatic door operator is required.	Hardware group revised to include an automatic opener.
18	Public Safety Center		10/28/25	11/07/25	JE Dunn DFH QA/QC	Opening A101B is missing from the system plans (E401). Please review and add this opening to the system plans.	Door to be added to systems plan. To be address via addendum.
19	Public Safety Center		10/28/25	11/07/25	JE Dunn DFH QA/QC	Opening STB-1A / Hardware Set 38.2 – The hardware schedule has specified electrified hardware that would require a card reader on the push and pull side of the door but the system plans (E401) show that a card reader is only required on the pull side of the door. Please confirm if a card reader is required on both sides of the door or just one side. If the card reader is required on one side, please confirm what the new hardware set assignment should be.	This should be hardware group 38.0.
20	Courthouse		10/28/25	11/07/25	JE Dunn DFH QA/QC	Opening E110B is shown on the system plans (E401) to receive a card reader, but this opening is not listed on the door schedule. Please add opening to door schedule and confirm what hardware set this opening should be assigned to.	Duplicate item to #9. Door added to door schedule and will be issued via addendum. Hardware group E18.0.
21	Courthouse		10/28/25	11/07/25	JE Dunn DFH QA/QC	Opening 161 / Hardware Set 15.0 – The system plans (E401) indicate that a card reader is required, but the hardware schedule does not indicate that a card reader is required. Please confirm if a card reader is required or not. If a card reader is required, please indicate what hardware set this opening should be assigned to.	Hardware group updated to 18.2.
22	Courthouse		10/29/25	11/04/25	Drywall	Can a wall assembly be provided for the wall infill at Restroom 160?	F4 partitions can be used. Face of gypsum to align with existing face of gypsum.
23	Courthouse	A213	10/29/25	11/04/25	Drywall	Is there any drywall framing required at SF04, A213, to prepare for new security storefront? If so please provide details.	See details 4D, 5D & 6D/A302. Intention is that glazing channels be mounted to existing framed opening and counter.
24	Courthouse		10/30/25	11/04/25	Rough Carpentry	There are no structural details for the construction of the ramp or raised platforms at the Courtroom.	There will not be structural details. Framing is noted as 2x construction at 12" O.C. with 3/4" fire treated plywood. All wood 2x and wood sheathing to be fire treated.

27	Courthouse		10/30/25		Fire Suppression	Need to verify AHJ and Owner requirements for Temporary Fire Suppression System at Courthouse.	
28	Courthouse		10/30/25		Fire Alarm	Need to verify AHJ and Owner requirements for Temporary Fire Alarm System at Courthouse.	
29	Courthouse		10/30/25		All MEPFS	Need to verify Owner requirements for second shift and weekend work for shut-downs, tie-ins, etc.	
31	Public Safety Center		10/30/25		Precast Concrete & Electrical / LV	Are electrical and low voltages boxes, conduit, etc. at precast to be surface-mounted (exposed) or recessed/embedded in precast?	
32	Public Safety Center	A210	10/30/25	11/04/25	Roofing	Can PAVER-1 (concrete paver) be simplified to an adhered walking pad?	Since the roof is ballasted, we prefer to continue using concrete pavers.
33	Public Safety Center	09 5426	10/30/25	11/04/25	Acoustic Ceilings	Section 09 5426, Suspended Wood Ceilings, 2.02.c specifies that wood grilles are needed. Sheet A600 specifies WCS-1 as linear wood ceilings. Can you confirm the item needed for WCS-1: grilles or linear?	WSC-1 is a linear wood ceiling product. This will be updated via addendum.
34	Public Safety Center	08 8430	10/30/25	11/04/25	Acoustic Ceilings	Section 09 8430, Sound-Absorbing Wall & Ceiling Units, 2.01.C specifies that Fabric-Covered Acoustical Wall Panels (SAWP) are needed. I wasn't able to find this on the material schedule or interior elevations. Can you confirm if/where the SAWP is needed? If SAWP is needed, can you confirm the item needed?	There are no fabric covered acoustical wall panels in the project. This product will be removed via addendum. .
35	Public Safety Center	09 5423	10/30/25	11/04/25	Acoustic Ceilings	Section 09 5423, Linear Metal Ceilings, specifies that MCT is needed. I wasn't able to find this item on the material schedule. Would USG Ceilings Plus Planx Universal be an acceptable item for the MCT?	This product was missing on A600 and should be listed as Armstrong METALWORKS MESH LAY IN AND TEGULAR -CASCADES 6139AM. This will be added via addendum. USG Ceilings Plus Planx Universal is not an approved equal.
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SECTION 08 7105 - HARDWARE GROUPS

HDWE GROUP 1.0

Qty		Description	Product Number	Manufacturer
		Hinges	As specified	IVE
1	EA	Passage Lockset	ND10S	SCH
1	EA	Wall Stop	WS406	IVE

Function:

Latch bolt by lever at all times.

HDWE GROUP 3.0

Qty		Description	Product Number	Manufacturer
		Hinges	As specified	IVE
1	EA	Classroom Lockset	ND70	SCH
1	EA	Wall Stop	WS406	IVE

Function:

Outside lever locked and unlocked by key. Inside lever always unlocked.

HDWE GROUP 3.2

Qty		Description	Product Number	Manufacturer
		Hinges	As specified	IVE
1	EA	Classroom Lockset	ND70	SCH
1	EA	Constant latch flushbolt	FB51T	IVE
2	EA	Wall Stop	WS406	IVE

Function:

Outside lever locked and unlocked by key. Inside lever always unlocked.

HDWE GROUP 4.0

Qty		Description	Product Number	Manufacturer
		Hinges	As specified	IVE
1	EA	Storeroom Lock	ND80	SCH
1	EA	Wall Stop	WS406	IVE

Function:

Outside lever fixed. Entrance by key only. Inside lever always unlocked.

HDWE GROUP 5.0

Qty		Description	Product Number	Manufacturer
		Hinges	As specified	IVE
1	EA	Entrance Lock	ND53	SCH
1	EA	Wall Stop	WS406	IVE

Function:

Turn/Push button locking; pushing and turning button locks outside lever requiring use of key until the button is manually unlocked. Push-button locking; pushing button locks outside lever until unlocked by key or by turning the inside lever.

HDWE GROUP 11.0

Qty		Description	Product Number	Manufacturer
		Hinges	As specified	IVE
1	EA	Passage lockset	ND10S	SCH
1	EA	Surface Closer	4011/4111 EDA with hold open	LCN
1	EA	Kick Plate	8400 10" x 2" LDW B4E	VON
1	EA	Wall Stop	WS406	IVE

Function:

Both levers always unlocked.

Note: Mount closer on the pull side of doors B157B and B159. Provide a closer with an integral stop in lieu of a wall stop where the door cannot open against a wall.

HDWE GROUP 11.4

Qty		Description	Product Number	Manufacturer
		Hinges	As specified	IVE
1	EA	Passage lockset	ND10S	SCH
1	EA	Surface Closer	4011/4111 EDA with hold open	LCN
1	EA	Wall Stop	WS406	IVE
1	EA	Armor plate	8400 34" x 2" LDW B4E	IVE
1	Set	Weatherstripping	429	ZER
1	EA	Door Sweep	8198	ZER
1	EA	Threshold	8655	ZER

Function:

Both levers always unlocked.

HDWE GROUP 12.0

Qty		Description	Product Number	Manufacturer
		Hinges	As specified	IVE
1	EA	Privacy Lock	ND40 with occupied indicator	SCH
1	EA	Surface Closer	4011/4111 EDA	LCN
1	EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1	EA	Wall Stop	WS406	IVE

Function:

Lever with emergency release recessed slot outside; push button in lever inside; springlatch; in unlocked state latch is retracted by either lever; outside lever is made inoperative by pushing button on inside lever; rotating inside lever retracts latch and releases button unlocking outside lever; closing door also unlocks preventing lockout; emergency unlock; an emergency key or small, flat screwdriver inserted in outside lever and turned releases button to unlock; inside lever always free for immediate egress.

HDWE GROUP 12.1

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Privacy Lock	ND40 with occupied indicator	SCH
1 EA	Surface Closer	4011/4111 EDA	LCN
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1 EA	Overhead stop	90S	IVE

Function:

Lever with emergency release recessed slot outside; push button in lever inside; springlatch; in unlocked state latch is retracted by either lever; outside lever is made inoperative by pushing button on inside lever; rotating inside lever retracts latch and releases button unlocking outside lever; closing door also unlocks preventing lockout; emergency unlock; an emergency key or small, flat screwdriver inserted in outside lever and turned releases button to unlock; inside lever always free for immediate egress.

HDWE GROUP 13.0

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Classroom lock	ND70	SCH
1 EA	Surface Closer	4011/4111 EDA with hold open	LCN
1 EA	Wall Stop	WS406	IVE
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE

Function:

Outside lever locked and unlocked by key. Inside lever always unlocked.

HDWE GROUP 13.2

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Classroom lock	ND70	SCH
1 EA	Surface Closer	4011/4111 EDA with hold open	LCN
1 EA	Wall Stop	WS406	IVE
1 EA	Armor plate	8400 34" x 2" LDW B4E	IVE

Function:

Outside lever locked and unlocked by key. Inside lever always unlocked.

HDWE GROUP 13.3

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Classroom lock	ND70	SCH
1 EA	Surface Closer	4011/4111 EDA with hold open	LCN
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE

Function:

Outside lever locked and unlocked by key. Inside lever always unlocked.

HDWE GROUP 13.4

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Classroom lock	ND70	SCH
1 EA	Surface Closer	4011/4111 EDA with hold open	LCN
1 EA	Wall Stop	WS406	IVE
1 EA	Armor plate	8400 34" x 2" LDW B4E	IVE
1 Set	Weatherstripping	429	ZER
1 EA	Door Sweep	8198	ZER
1 EA	Threshold	8655	ZER

Function:

Outside lever locked and unlocked by key. Inside lever always unlocked.

HDWE GROUP 13.5

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Classroom lock	ND70	SCH
1 EA	Surface Closer	4011/4111 EDA with hold open	LCN
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1 Set	Seals	188S	ZER

Function:

Outside lever locked and unlocked by key. Inside lever always unlocked.

HDWE GROUP 14.0

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Storeroom Lockset	ND80	SCH
1 EA	Surface Closer	4011/4111 EDA with hold open	LCN
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1 EA	Wall Stop	WS406	IVE

Function:

Latchbolt retracted by key outside or by lever inside. Outside lever always inoperative. Auxiliary latch deadlocks latchbolt when door is closed.

HDWE GROUP 14.2

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Storeroom Lockset	ND80	SCH
1 EA	Surface Closer	4011/4111 EDA with hold open	LCN
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE

1	EA	Wall Stop	WS406	IVE
1	Set	Seals	188S	ZER

Function:

Latchbolt retracted by key outside or by lever inside. Outside lever always inoperative. Auxiliary latch deadlocks latchbolt when door is closed.

HDWE GROUP 18.0

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Storeroom lock	ND80	SCH
1 EA	Electric strike	6211 Fail secure	VON
1 EA	Surface Closer	4011/4111 EDA with hold open	LCN
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1 EA	Wall Stop	WS406	IVE
1 EA	Card Reader	By Access Control Contractor	
1 EA	Door Contact	By Access Control Contractor	
1 EA	Power Supply	As required	
1 EA	Elevation drawing		
1 EA	Wire Diagram	Point to point	

Function:

Outside lever fixed. Entrance by key only. Inside lever always unlocked. Presentation of valid credential momentarily unlocks doors.

HDWE GROUP 18.1

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Storeroom lock	ND80	SCH
1 EA	Electric strike	6211 Fail secure	VON
1 EA	Surface Closer	4011/4111 EDA with hold open	LCN
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1 EA	Overhead stop	90S	GLY
1 EA	Card Reader	By Access Control Contractor	
1 EA	Door Contact	By Access Control Contractor	
1 EA	Power Supply	As required	
1 EA	Elevation drawing		
1 EA	Wire Diagram	Point to point	

Function:

Outside lever fixed. Entrance by key only. Inside lever always unlocked. Presentation of valid credential momentarily unlocks doors.

HDWE GROUP 18.5

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Electric strike	6211 Fail secure	VON

1	EA	Storeroom lock	ND80	SCH
1	EA	Surface Closer	4011/4111 EDA	LCN
1	EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1	EA	Wall stop	WS406	IVE
1	Set	Weatherstripping	429	ZER
1	EA	Door Sweep	8198	ZER
1	EA	Threshold	8655	ZER
1	EA	Card Reader	By Access Control Contractor	
1	EA	Door Contact	By Access Control Contractor	
1	EA	Power Supply	As required	
1	EA	Elevation drawing		
1	EA	Wire Diagram	Point to point	

Function:

Outside lever fixed. Entrance by key only. Inside lever always unlocked. Presentation of valid credential momentarily unlocks doors.

HDWE GROUP 19.0

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Push Plate	8200 6" x 16"	IVE
1 EA	Pull plate	8302 10" 4" x 16"	IVE
1 EA	Surface closer	4011/4111 EDA	LCN
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1 EA	Wall Stop	WS406	IVE

Function:

Push/pull

HDWE GROUP 31.2

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Fire exit hardware	99-L-BE-F	VON
1 EA	Surface Closer	4011/4111 EDA	LCN
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1 Set	Seals	188S	ZER

Function:

Latchbolt retracted by depressing the actuation bar. Entrance by lever, always active, no cylinder.

HDWE GROUP 38.0

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Panic hardware	99-NL-L-F	SCH
1 EA	Electric strike	6000 Series	VON
1 EA	Surface Closer	4011/4111 EDA with hold open	LCN

1	EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1	EA	Wall Stop	WS406	IVE
1	Set	Seals	188S	ZER
1	EA	Card Reader	By Access Control Contractor	
1	EA	Door Contact	By Access Control Contractor	
1	EA	Power Supply	As required	
1	EA	Elevation drawing		
1	EA	Wire Diagram	Point to point	

Function:

Latchbolt retracted inside by exit device push pad and outside by key in cylinder. Doors locks when key is removed and door is closed. Electric strike controlled by card reader.

HDWE GROUP 118.0

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Power transfer	EPT10	VON
1 EA	Electric storeroom lock	ND80EU	SCH
1 EA	Lock guard	LG	IVE
1 EA	Surface Closer	4011/4111 EDA	LCN
1 EA	Kick Plate	8400 10" x 2" LDW B4E	IVE
1 EA	Overhead stop	90S	GLY
1 EA	Rain Drip	142	ZER
1 Set	Weatherstripping	429	ZER
1 EA	Door Sweep w/ Drip	8198	ZER
1 EA	Threshold	8655	ZER
1 EA	Card Reader	By Access Control Contractor	
1 EA	Door Contact	By Access Control Contractor	
1 EA	Power Supply	As required	
1 EA	Elevation drawing		
1 EA	Wire Diagram	Point to point	

Function:

Outside lever fixed. Entrance by key only. Inside lever always unlocked. Presentation of valid credential momentarily unlocks doors.

Note: Provide SRI coating on closer for Door B158A.

HDWE GROUP 138.0

Qty	Description	Product Number	Manufacturer
	Hinges	As specified	IVE
1 EA	Power Transfer	EPT10	VON
1 EA	Electric Panic Hardware	QEL+-99-NL-L	VON
1 EA	OH Stop	100S	GLY
1 EA	Surface Closer	4011/4111 EDA	LCN
1 EA	Rain Drip	142A	ZER
1 Set	Weather Strip	By Door Manufacturer	
1 EA	Door Sweep w/Drip	8198	ZER
1 EA	Threshold	8655	ZER

1	EA	Card Reader	By Access Control Contractor
1	EA	Door Contact	By Access Control Contractor
1	EA	Power Supply	As required
1	EA	Elevation drawing	
1	EA	Wire Diagram	Point to Point

Function:

Latchbolt retracted inside by device push pad and outside by key in cylinder. Door locks when key is removed. Valid credential will momentarily unlock the door. Door relocks when card reader times out.

HDWE GROUP 238.0

Qty		Description	Product Number	Manufacturer
1	EA	Continuous hinge	700 x EPT	IVE
1	EA	Power Transfer	EPT10	VON
1	EA	Electric Panic Hardware	QEL+-99-NL-OP	VON
1	EA	Door pull, 1" round	8190 10"	IVE
1	EA	OH Stop	100S	GLY
1	EA	Surface auto operator	4642	LCN
2	EA	Actuator, wall mount	8310-853	LCN
1	EA	Card Reader	By Access Control Contractor	
1	EA	Door Contact	By Access Control Contractor	
1	EA	Power Supply	As required	
1	EA	Elevation drawing		
1	EA	Wire Diagram	Point to Point	

Function:

Latchbolt retracted inside by device push pad and outside by key in cylinder. Door locks when key is removed. Valid credential will momentarily unlock the door. Door relocks when card reader times out.

HDWE GROUP 334.0

Qty		Description	Product Number	Manufacturer
1	EA	Continuous hinge	700 x EPT	IVE
1	EA	Panic hardware	CD-99-NL-OP	VON
1	EA	Door pull, 1" round	8190 10"	IVE
1	EA	OH Stop	100S	GLY
1	EA	Surface auto operator	4642	LCN
2	EA	Actuator, wall mount	8310-853	LCN
1	EA	Rain Drip	142A	ZER
1	Set	Weather Strip	By Door Manufacturer	
1	EA	Door Sweep w/Drip	8198	ZER
1	EA	Threshold	8655	ZER

Function:

Latchbolt retracted inside by device push pad and outside by key in cylinder. Door locks when key is removed.

HDWE GROUP 338.0

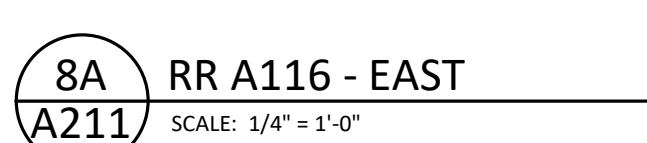
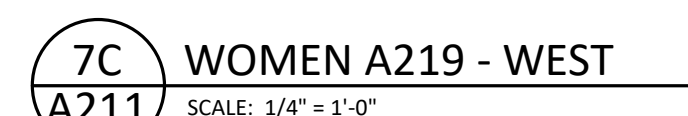
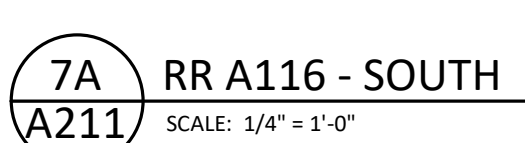
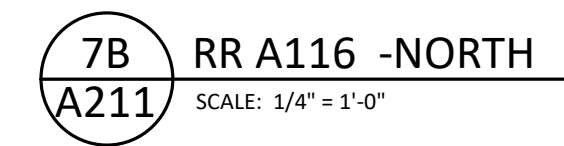
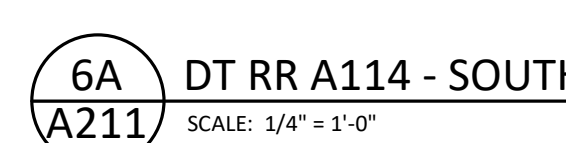
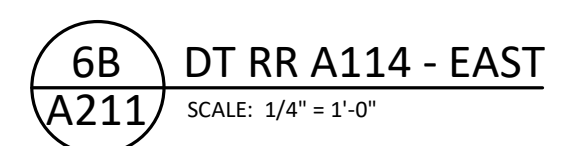
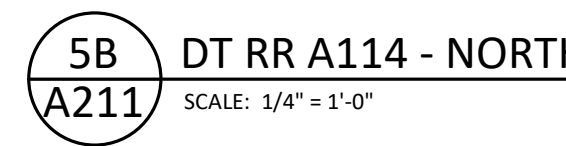
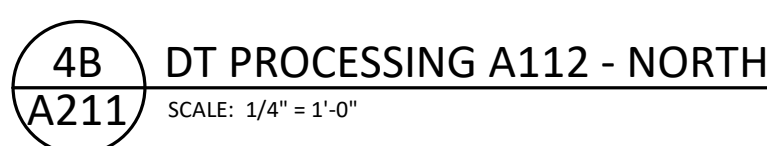
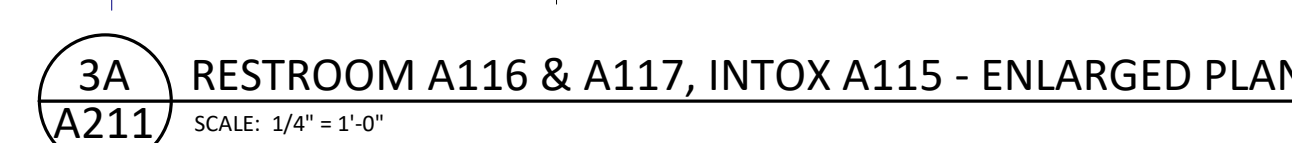
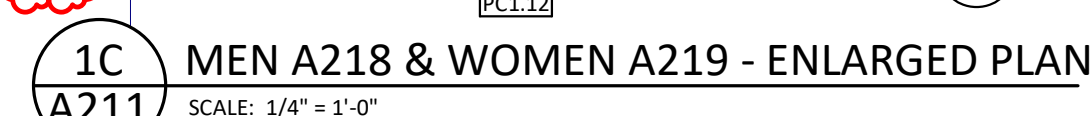
Qty		Description	Product Number	Manufacturer
1	EA	Continuous hinge	700 x EPT	IVE
1	EA	Power Transfer	EPT10	VON
1	EA	Electric Panic Hardware	QEL+-99-NL-OP	VON
1	EA	Door pull, 1" round	8190 10"	IVE
1	EA	OH Stop	100S	GLY
1	EA	Surface Closer	4011/4111 EDA	LCN
1	EA	Rain Drip	142A	ZER
1	Set	Weather Strip	By Door Manufacturer	
1	EA	Door Sweep w/Drip	8198	ZER
1	EA	Threshold	8655	ZER
1	EA	Card Reader	By Access Control Contractor	
1	EA	Door Contact	By Access Control Contractor	
1	EA	Power Supply	As required	
1	EA	Elevation drawing		
1	EA	Wire Diagram	Point to Point	

Function:

Latchbolt retracted inside by device push pad and outside by key in cylinder. Door locks when key is removed. Valid credential will momentarily unlock the door. Door relocks when card reader times out.

END OF SECTION

NO	NOTE	REV.
01	BALLISTIC RATING 4 WITH ONE WAY FILM.	
02	PROVIDE GROMMET IN COUNTER; VERIFY LOCATION WITH OWNER.	



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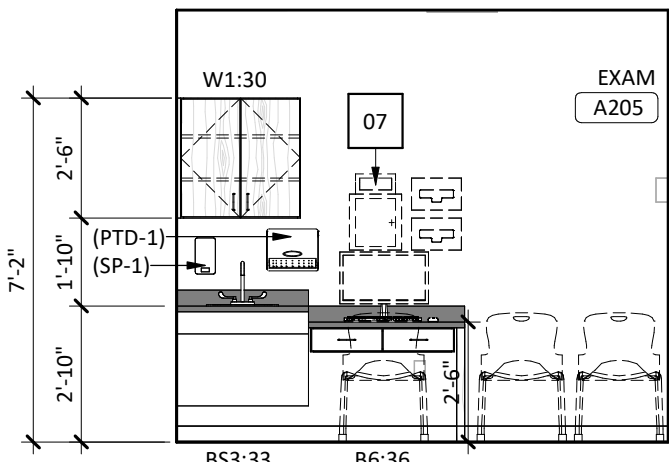
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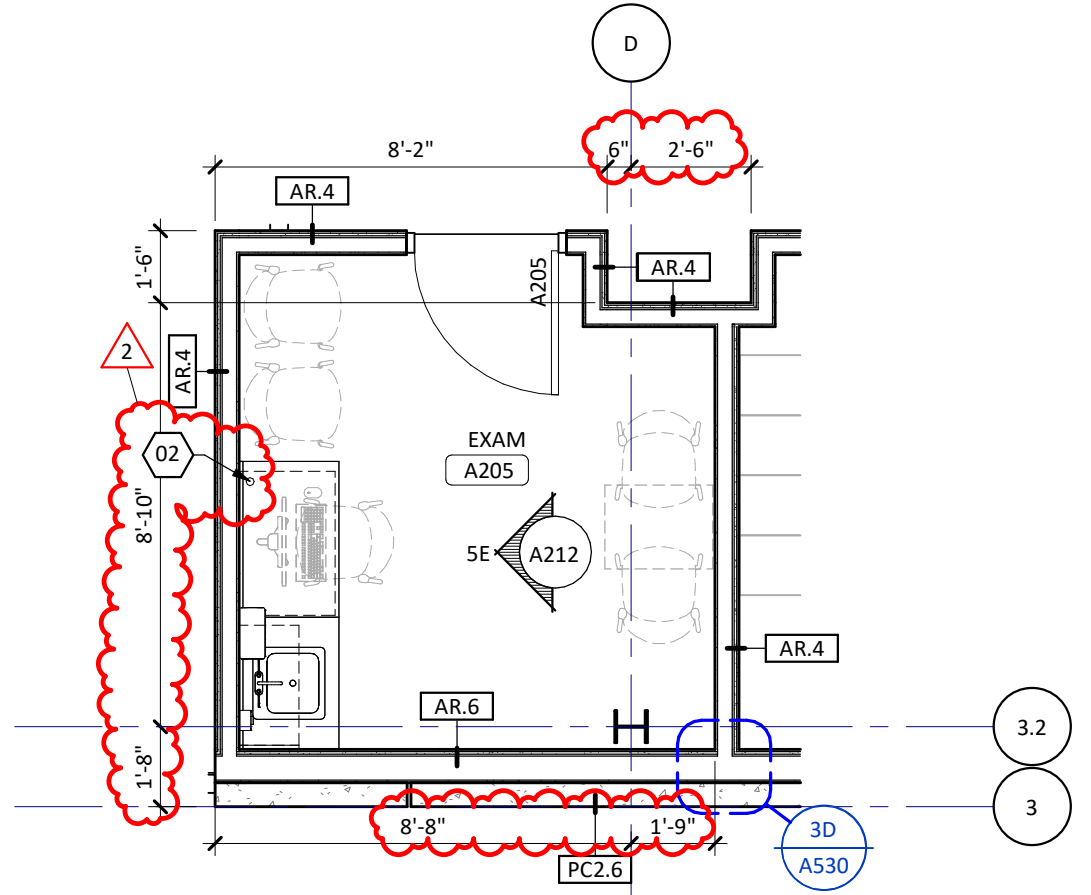
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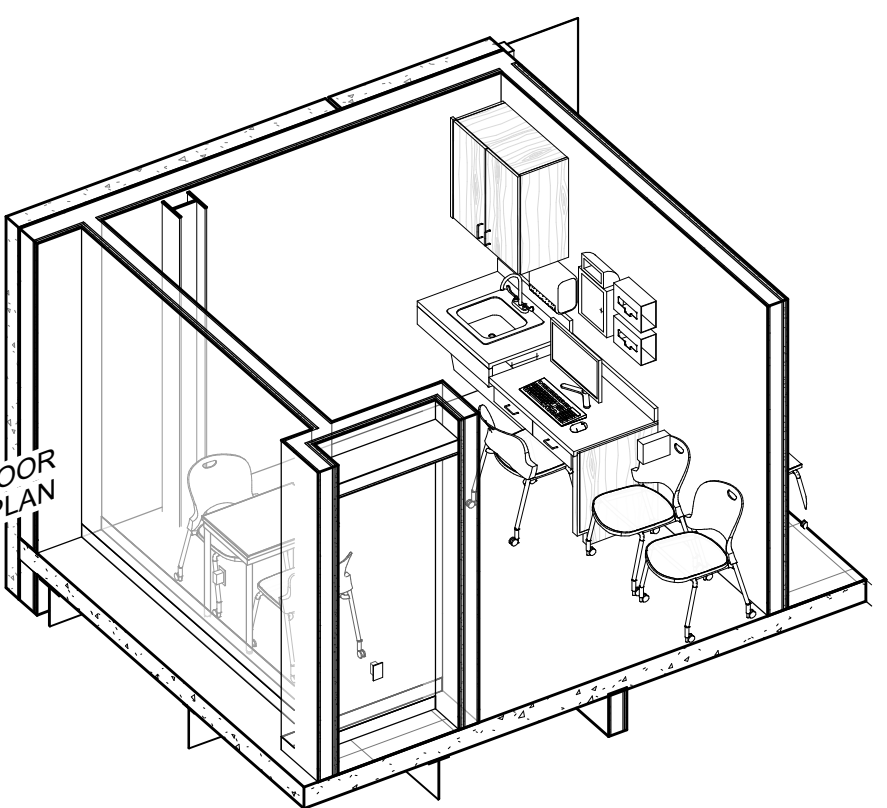
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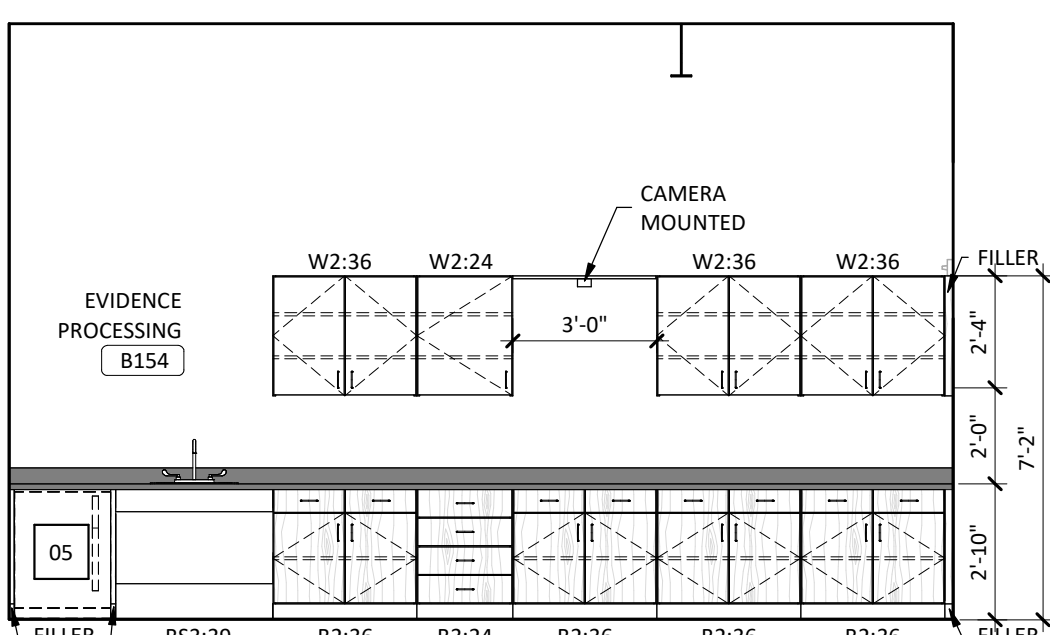
5E EXAM ROOM A205 - WEST
SCALE: 1/4" = 1'-0"



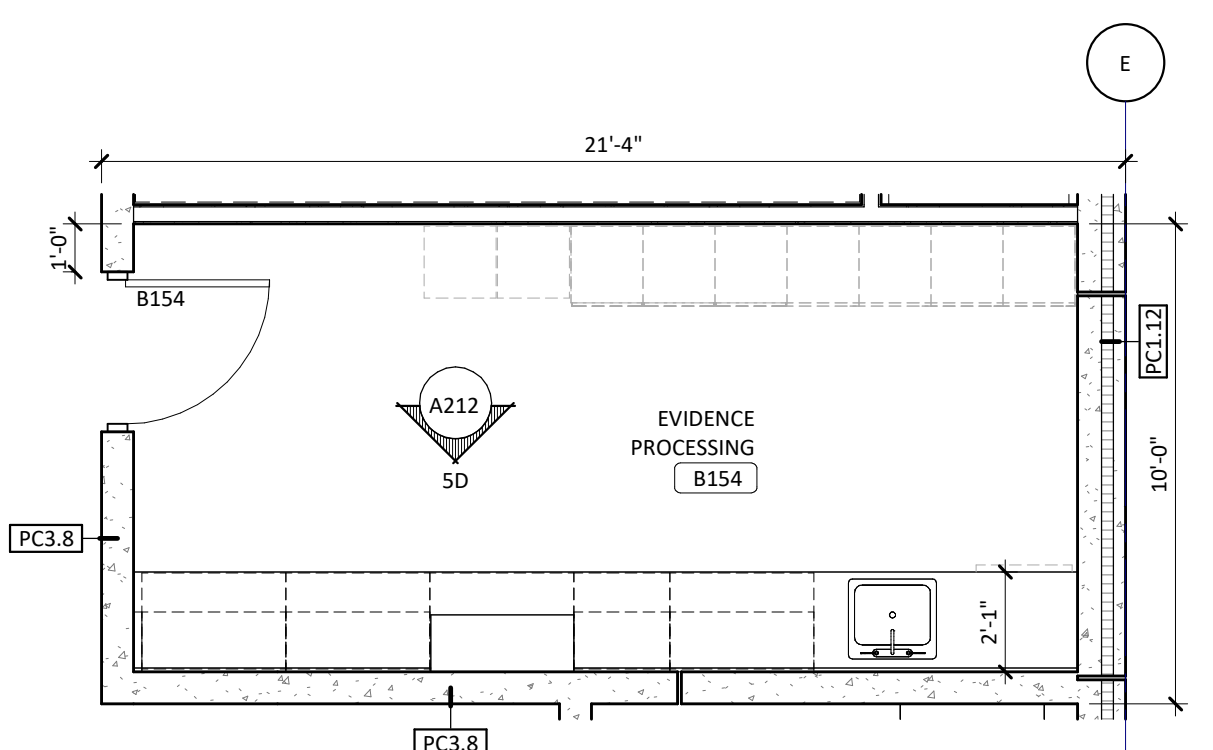
4E EXAM ROOM A205 - ENLARGED PLAN
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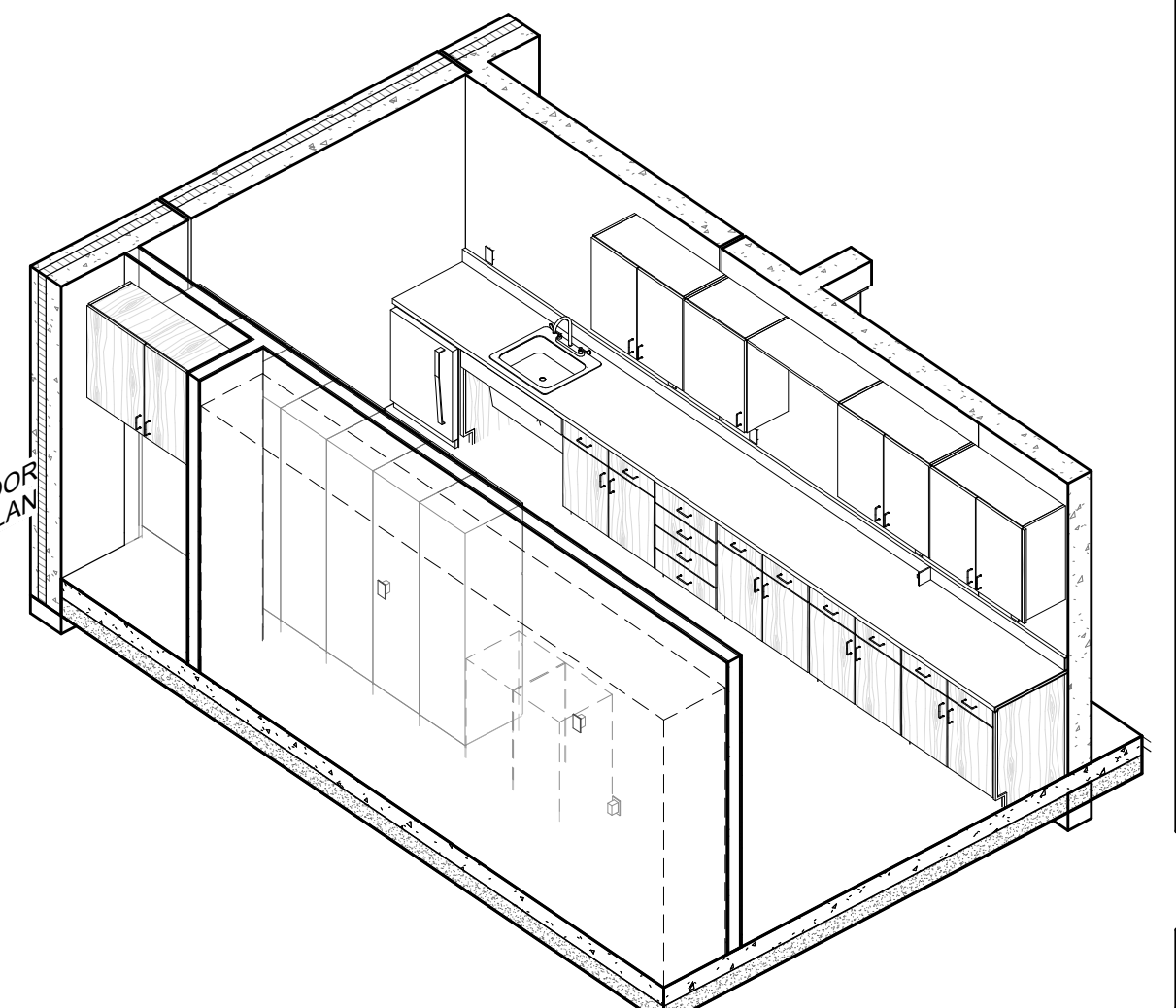
2E EXAM ROOM A205 - AXON
SCALE: 1/4" = 1'-0"



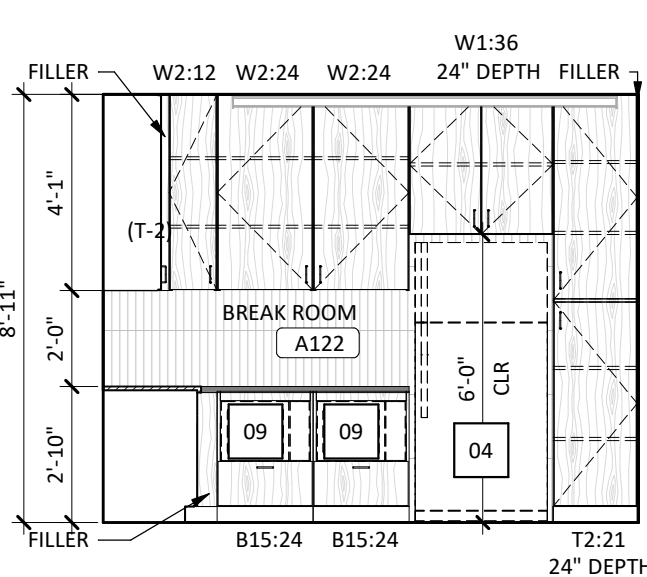
5D EVIDENCE PROCESSING B154 - SOUTH
SCALE: 1/4" = 1'-0"



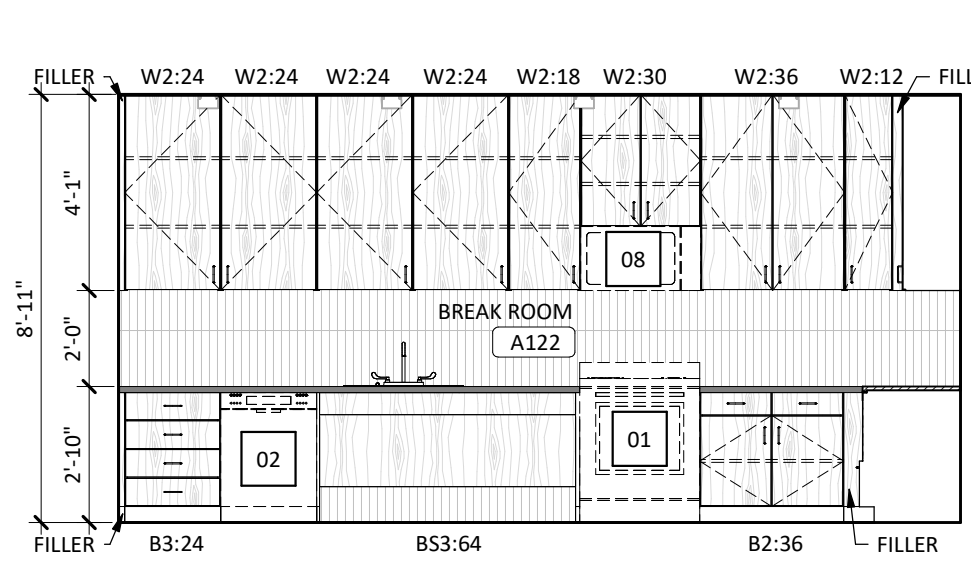
4D EVIDENCE PROCESSING B154 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



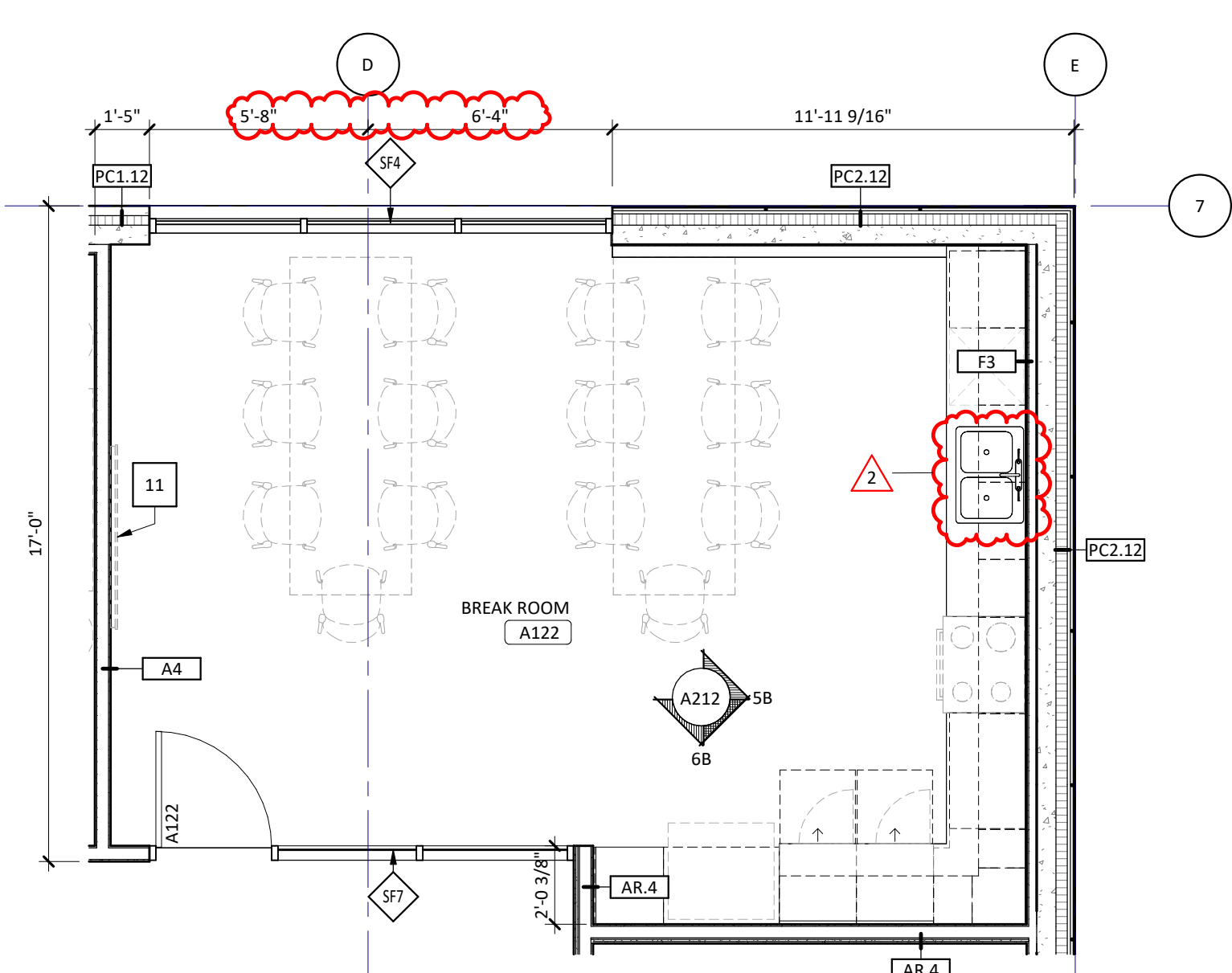
2D EVIDENCE PROCESSING B154 - AXON
SCALE: 1/4" = 1'-0"



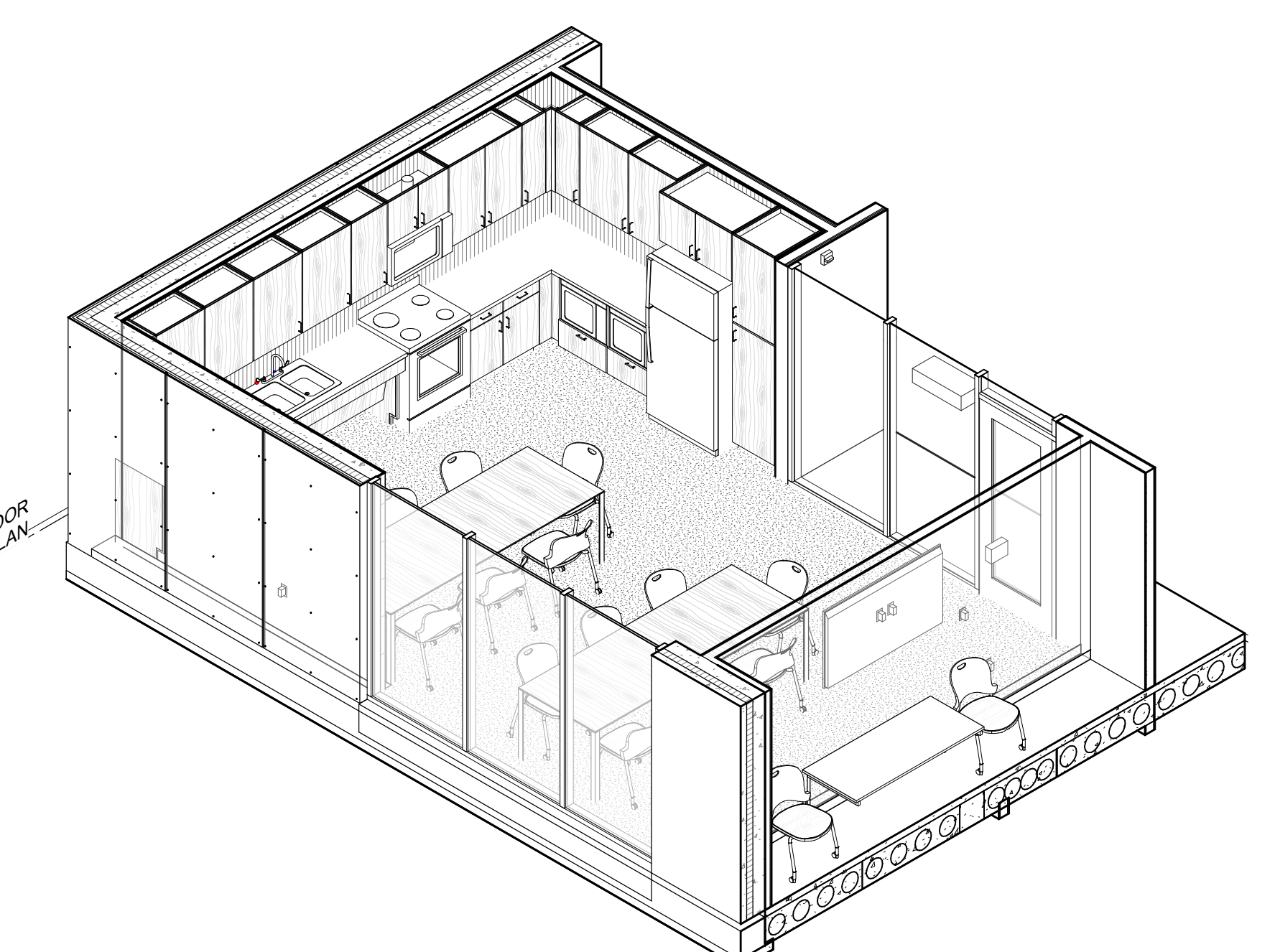
6B BREAK ROOM A122 - SOUTH
SCALE: 1/4" = 1'-0"



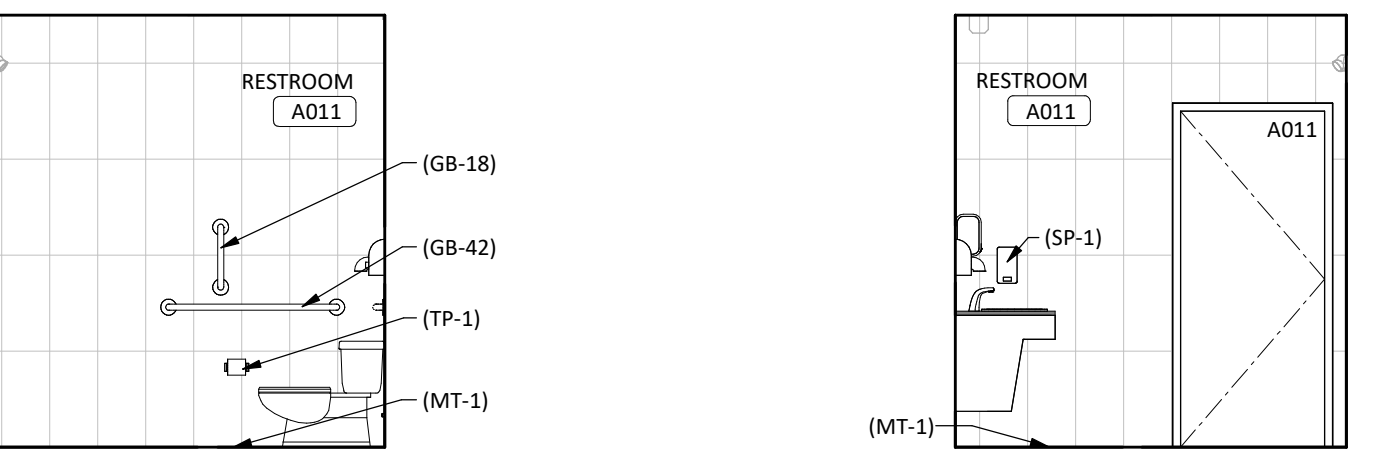
5B BREAK ROOM A122 - EAST
SCALE: 1/4" = 1'-0"



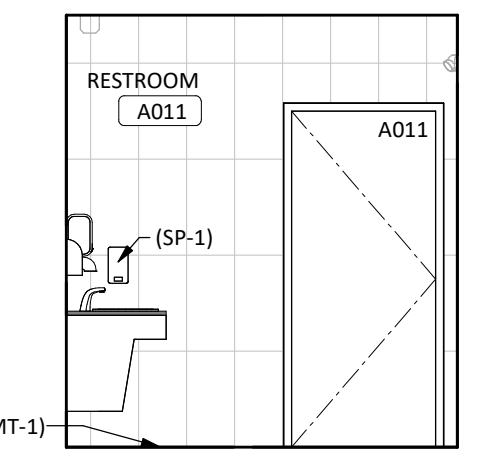
4B BREAK ROOM A122 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



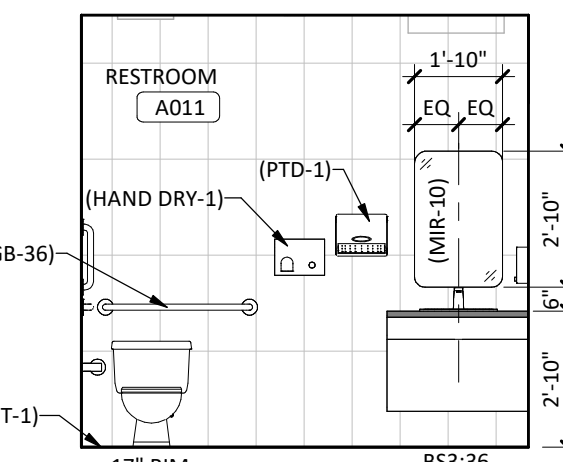
2B BREAK ROOM A122 - AXON
SCALE: 1/4" = 1'-0"



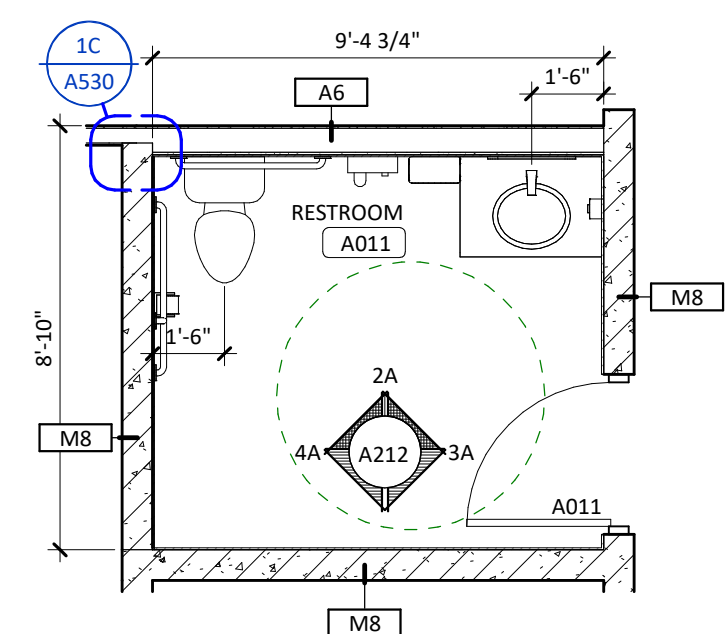
4A RR A011 - WEST
SCALE: 1/4" = 1'-0"



3A RR A011 - EAST
SCALE: 1/4" = 1'-0"



2A RR A011 - NORTH
SCALE: 1/4" = 1'-0"



1A RESTROOM A011 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES - INTERIOR ELEVATIONS

- REFER TO A620 & A621 FOR STANDARD CASEWORK ELEVATIONS AND CONSTRUCTION.
- ALL WALL SURFACES TO BE (PT-1) UNLESS NOTED OTHERWISE.
- PROVIDE LEVEL 'S' DRYWALL FINISH AT ALL APPLIED GRAPHICS AND WRITABLE WALL SURFACE LOCATIONS.
- PROVIDE WALL REINFORCEMENT AT ALL WALL MOUNTED ITEMS.
- ANY EXPOSED CABINET EDGE SHALL BE FINISHED EDGE TO MATCH ADJACENT CABINET FINISH.
- PAINT ALL EXPOSED (VISIBLE) DUCTWORK ABOVE THE CEILING LINE OF CLOUDS (PT-4).
- SEE SHEET G120 FOR ALL TOILET RIM HEIGHTS AND ACCESSORY MOUNTING HEIGHTS.

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
GB-18	10 2800 - GRAB BAR; 18 INCHES
GB-36	10 2800 - GRAB BAR; 36 INCHES
GB-42	10 2800 - GRAB BAR; 42 INCHES
HAND DRY-1	10 2800 - ELECTRIC HAND DRYER
MIR-10	10 2800 - MIRROR; ANGLE FRAMED
MT-1	09 3000 - TILE TRIM
PTD-1	10 2800 - PAPER TOWEL DISPENSER; C-FOLD
SP-1	10 2800 - SOAP DISPENSER; WALL MOUNT
T-2	09 3000 - TILE
TP-1	10 2800 - TOILET PAPER DISPENSER; SINGLE ROLL

KEYNOTES - FLOOR PLAN

NO.	NOTE	REV.
01	MOP SINK, SEE MECH.	
02	EMERGENCY EYEWASH ON FAUCET, REFER TO MECHANICAL.	
03	8" HIGH CHAIN LINK FENCE WITH CONCERTINA WIRE ON TOP TO DIVIDE EVIDENCE BAYS.	
04	BALLISTIC RATING 8, WALLS AND CASEWORK.	
05	BALLISTIC RATING 4 DOORS AND GLASS.	
06	SHOOTING RANGE EQUIPMENT, SEE ALTERNATE 6.	
07	ALTERNATE 2: INSTALL FLI IN LIEU OF FL1; REFER TO MECHANICAL.	
08	CONCRETE APRON, SEE STRUCTURAL.	
09	CONCRETE STODP, SEE STRUCTURAL.	
10	PREFORMED TRENCH DRAIN, SEE MECHANICAL.	
11	CAST-IN-PLACE TRENCH DRAIN, SEE STRUCTURAL.	
12	CATCH BASIN, SEE MECHANICAL.	
13	CT CABINET, SEE ELECTRICAL.	
14	TRANSFORMER, SEE ELECTRICAL.	
15	(MET FAB-2) PROVIDE HOPE COVER, PER SPECIFICATION. SEE CIVIL FOR DIMENSIONED LOCATIONS IF NOT INDICATED ON ARCHITECTURAL, ADDITIONAL BOLLARD LOCATIONS AND INSTALLATION DETAIL.	
16	RECESSED FLOOR GRILLE, SEE MECHANICAL.	
17	FLOOR BOX, FINAL LOCATION TO BE VERIFIED WITH FURNITURE LAYOUT; SEE ELECTRICAL.	
18	DISPLAY SCREEN, VERIFY MOUNTING HEIGHT WITH ARCHITECT; SEE FFE PLANS AND ELECTRICAL.	
19	OVERFLOW ROOF DRAIN OUTLET, CENTER IN EXTERIOR WALL PANEL; SEE PLUMBING.	
20	BURIED FIRE SUPPRESSION TANK, SEE MECHANICAL.	
21	TOP SIDE OF VESTIBULE LID.	
22	GENERATOR, SEE ELECTRICAL.	
23	PROVIDE 1/2" FIRE TREATED WOOD SHEATHING (WD SHGT-30F) AT ALL WALLS FROM 6" AFF TO 8'-6" AFF IN ELECTRICAL ROOM, PAINT GRAY.	
24	MULLION MOUNTED ADA DOOR ACTUATOR AND CARD READER. VERIFY LOCATION WITH ARCHITECT.	
25	FLOOR DRAIN, SEE MECH. PROVIDE ZERO FLOOR SLOPE TO DRAIN.	
26	VERIFY FRAMING DIMENSIONS WITH MANUFACTURER'S SHOWER SIZE. MUST BE ADA COMPLIANT.	
27	COUNTER MOUNT POP-UP STYLE POWER RECEPTACLE, SEE ELECTRICAL. VERIFY LOCATION WITH ARCHITECT.	

KEYNOTES - INTERIOR ELEV.

NO.	NOTE	REV.
01	BALLISTIC RATING 4 WITH ONE WAY FILM	
02	PROVIDE GROMMET IN COUNTER, VERIFY LOCATION WITH OWNER.	



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REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	ADDENDUM #2	11/07/25

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

DATE
10/21/2025
PHASE
CONSTRUCTION DOCUMENTS
PROJECT
24146.01
SHEET
A212
ENLARGED PLANS AND ELEVATIONS

GENERAL NOTES - INTERIOR ELEVATIONS

- A. REFER TO A620 & A621 FOR STANDARD CASEWORK ELEVATIONS AND CONSTRUCTION.
B. ALL WALL SURFACES TO BE (PT-1) UNLESS NOTED OTHERWISE.
C. PROVIDE LEVEL "S" DRYWALL FINISH AT ALL APPLIED GRAPHICS AND WRITABLE WALL SURFACE LOCATIONS.
D. PROVIDE WALL REINFORCEMENT AT ALL WALL MOUNTED ITEMS.
E. ANY EXPOSED CABINET EDGE SHALL BE FINISHED EDGE TO MATCH ADJACENT CABINET FINISH.
F. PAINT ALL EXPOSED (VISIBLE) DUCTWORK ABOVE THE CEILING LINE OF CLOUDS (PT-#).
G. SEE SHEET G120 FOR ALL TOILET RIM HEIGHTS AND ACCESSORY MOUNTING HEIGHTS.

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
MET FAB-11	07 4213 - METAL PLATE WALL PANEL, BLACKENED STEEL
PT-2	09 9123 - PAINT
PT-6	09 9123 - PAINT
WT-2	12 2400 - ROLLER SHADES
WTHR STL-4	07 4213 - INTERIOR WEATHERING STEEL PANEL

KEYNOTES - FLOOR PLAN

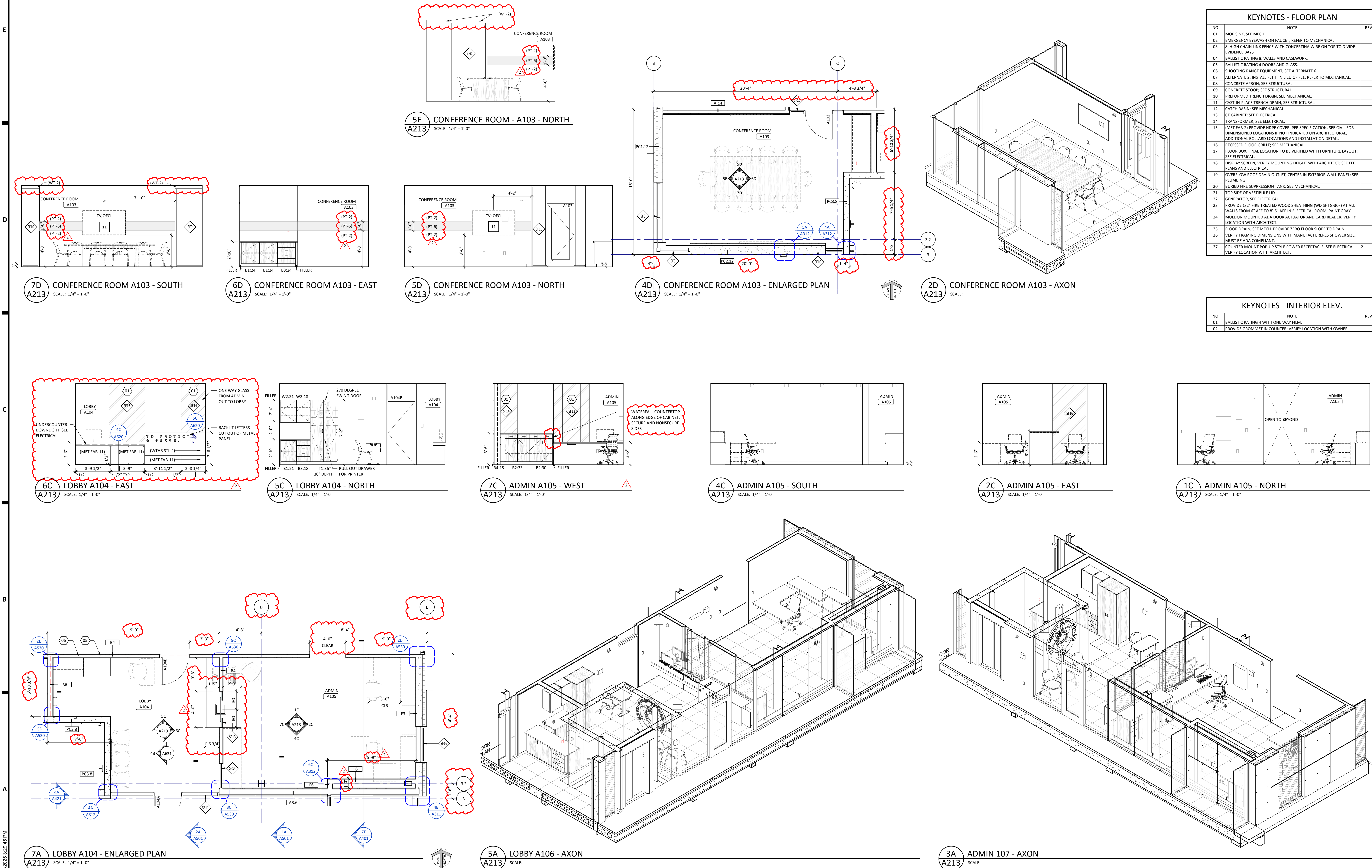
NO.	NOTE	REV.
01	MOP SINK, SEE MECH.	
02	EMERGENCY EYEWASH ON FAUCET, REFER TO MECHANICAL	
03	8" HIGH CHAIN LINK FENCE WITH CONCERTINA WIRE ON TOP TO DIVIDE EVIDENCE BAYS	
04	BALLISTIC RATING 8, WALLS AND CASEWORK	
05	BALLISTIC RATING 4 DOORS AND GLASS	
06	SHOOTING RANGE EQUIPMENT, SEE ALTERNATE 6.	
07	ALTERNATE 2: INSTALL FLI IN LIEU OF FLI, REFER TO MECHANICAL	
08	CONCRETE APRON, SEE STRUCTURAL	
09	CONCRETE STOOP, SEE STRUCTURAL	
10	PREFORMED TRENCH DRAIN, SEE MECHANICAL	
11	CAST-IN-PLACE TRENCH DRAIN, SEE STRUCTURAL	
12	CATCH BASIN, SEE MECHANICAL	
13	CT CABINET, SEE ELECTRICAL	
14	TRANSFORMER, SEE ELECTRICAL	
15	(MET FAB-3) PROVIDE HOPE COVER, PER SPECIFICATION, SEE CIVIL FOR DIMENSIONED LOCATIONS IF NOT INDICATED ON ARCHITECTURAL, ADDITIONAL BOLLARD LOCATIONS AND INSTALLATION DETAIL.	
16	RECESSED FLOOR GRILLE, SEE MECHANICAL	
17	FLOOR BOX, FINAL LOCATION TO BE VERIFIED WITH FURNITURE LAYOUT, SEE ELECTRICAL	
18	DISPLAY SCREEN, VERIFY MOUNTING HEIGHT WITH ARCHITECT, SEE FFE PLANS AND ELECTRICAL	
19	OVERFLOW ROOF DRAIN OUTLET, CENTER IN EXTERIOR WALL PANEL, SEE PLUMBING	
20	BURNED FIRE SUPPRESSION TANK, SEE MECHANICAL	
21	TOP SIDE OF VESTIBULE LID	
22	GENERATOR, SEE ELECTRICAL	
23	PROVIDE 1/2" FIRE TREATED WOOD SHEATHING (WD SHTG-30F) AT ALL WALLS FROM 6" AFF TO 8" AFF IN ELECTRICAL ROOM, PAINT GRAY	
24	MULLION MOUNTED ADA DOOR ACTUATOR AND CARD READER, VERIFY LOCATION WITH ARCHITECT	
25	FLOOR DRAIN, SEE MECH. PROVIDE ZERO FLOOR SLOPE TO DRAIN	
26	VERIFY FRAMING DIMENSIONS WITH MANUFACTURER'S SHOWER SIZE, MUST BE ADA COMPLIANT	
27	COUNTER MOUNT POP-UP STYLE POWER RECEPTACLE, SEE ELECTRICAL, VERIFY LOCATION WITH ARCHITECT.	2

KEYNOTES - INTERIOR ELEV.

NO.	NOTE	REV.
01	BALLISTIC RATING 4 WITH ONE WAY FILM	
02	PROVIDE GROMMET IN COUNTER, VERIFY LOCATION WITH OWNER.	

REVISION SCHEDULE

NO.	DESCRIPTION	DATE
2	ADDENDUM #2	11/07/25



GENERAL NOTES - INTERIOR ELEVATIONS

- A. REFER TO A620 & A621 FOR STANDARD CASEWORK ELEVATIONS AND CONSTRUCTION.
- B. ALL WALL SURFACES TO BE (PT-1) UNLESS NOTED OTHERWISE.
- C. PROVIDE LEVEL "S" DRYWALL FINISH AT ALL APPLIED GRAPHICS AND WRITABLE WALL SURFACE LOCATIONS.
- D. PROVIDE WALL REINFORCEMENT AT ALL WALL MOUNTED ITEMS.
- E. ANY EXPOSED CABINET EDGE SHALL BE FINISHED EDGE TO MATCH ADJACENT CABINET FINISH.
- F. PAINT ALL EXPOSED (VISIBLE) DUCTWORK ABOVE THE CEILING LINE OF CLOUDS (PT-#).
- G. SEE SHEET G120 FOR ALL TOILET RIM HEIGHTS AND ACCESSORY MOUNTING HEIGHTS.

SHEET SPEC ID LIST

SPEC ID	SPEC SECTION & DESCRIPTION
MET FAB-11	07 4213 - METAL PLATE WALL PANEL, BLACKENED STEEL
PT-1	09 9123 - PAINT

KEYNOTES - FLOOR PLAN

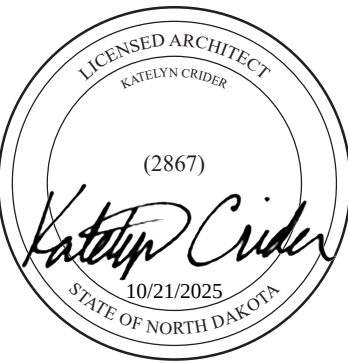
NO.	NOTE	REV.
01	MOP SINK, SEE MECH.	
02	EMERGENCY EYEWASH ON FAUCET, REFER TO MECHANICAL	
03	8" HIGH CHAIN LINK FENCE WITH CONCERTINA WIRE ON TOP TO DIVIDE EVIDENCE BAYS	
04	BALLISTIC RATING 8, WALLS AND CASEWORK.	
05	BALLISTIC RATING 4 DOORS AND GLASS	
06	SHOOTING RANGE EQUIPMENT, SEE ALTERNATE 6.	
07	ALTERNATE 2: INSTALL FLTH IN LIEU OF FL1; REFER TO MECHANICAL.	
08	CONCRETE APRON; SEE STRUCTURAL	
09	CONCRETE STOOP; SEE STRUCTURAL	
10	PREFORMED TRENCH DRAIN, SEE MECHANICAL	
11	CAST-IN-PLACE TRENCH DRAIN, SEE STRUCTURAL	
12	CATCH BASIN; SEE MECHANICAL	
13	OT CABINET; SEE ELECTRICAL	
14	TRANSFORMER, SEE ELECTRICAL	
15	(MET FAB-2) PROVIDE HDPE COVER, PER SPECIFICATION. SEE CIVIL FOR DIMENSIONED LOCATIONS IF NOT INDICATED ON ARCHITECTURAL, ADDITIONAL BOLLARD LOCATIONS AND INSTALLATION DETAIL.	
16	RECESSED FLOOR GRILLE; SEE MECHANICAL	
17	FLOOR BOX, FINAL LOCATION TO BE VERIFIED WITH FURNITURE LAYOUT; SEE ELECTRICAL	
18	DISPLAY SCREEN, VERIFY MOUNTING HEIGHT WITH ARCHITECT; SEE FFE PLANS AND ELECTRICAL	
19	OVERFLOW ROOF DRAIN OUTLET, CENTER IN EXTERIOR WALL PANEL; SEE PLUMBING	
20	BURIED FIRE SUPPRESSION TANK; SEE MECHANICAL	
21	TOP SIDE OF VESTIBULE LID.	
22	GENERATOR, SEE ELECTRICAL	
23	PROVIDE 1/2" FIRE TREATED WOOD SHEATHING (WD SHYG-30P) AT ALL WALLS FROM 6" AFF TO 8'-0" AFF IN ELECTRICAL ROOM; PAINT GRAY.	
24	MULLION MOUNTED ADA DOOR ACTUATOR AND CARD READER. VERIFY LOCATION WITH ARCHITECT.	
25	FLOOR DRAIN, SEE MECH. PROVIDE ZERO FLOOR SLOPE TO DRAIN.	
26	VERIFY FRAMING DIMENSIONS WITH MANUFACTURER'S SHOWER SIZE. MUST BE ADA COMPLIANT.	
27	COUNTER MOUNT POP-UP STYLE POWER RECEPTACLE, SEE ELECTRICAL. VERIFY LOCATION WITH ARCHITECT.	2

KEYNOTES - INTERIOR ELEV.

NO.	NOTE	REV.
01	BALLISTIC RATING 4 WITH ONE WAY FILM	
02	PROVIDE GROMMET IN COUNTER, VERIFY LOCATION WITH OWNER.	



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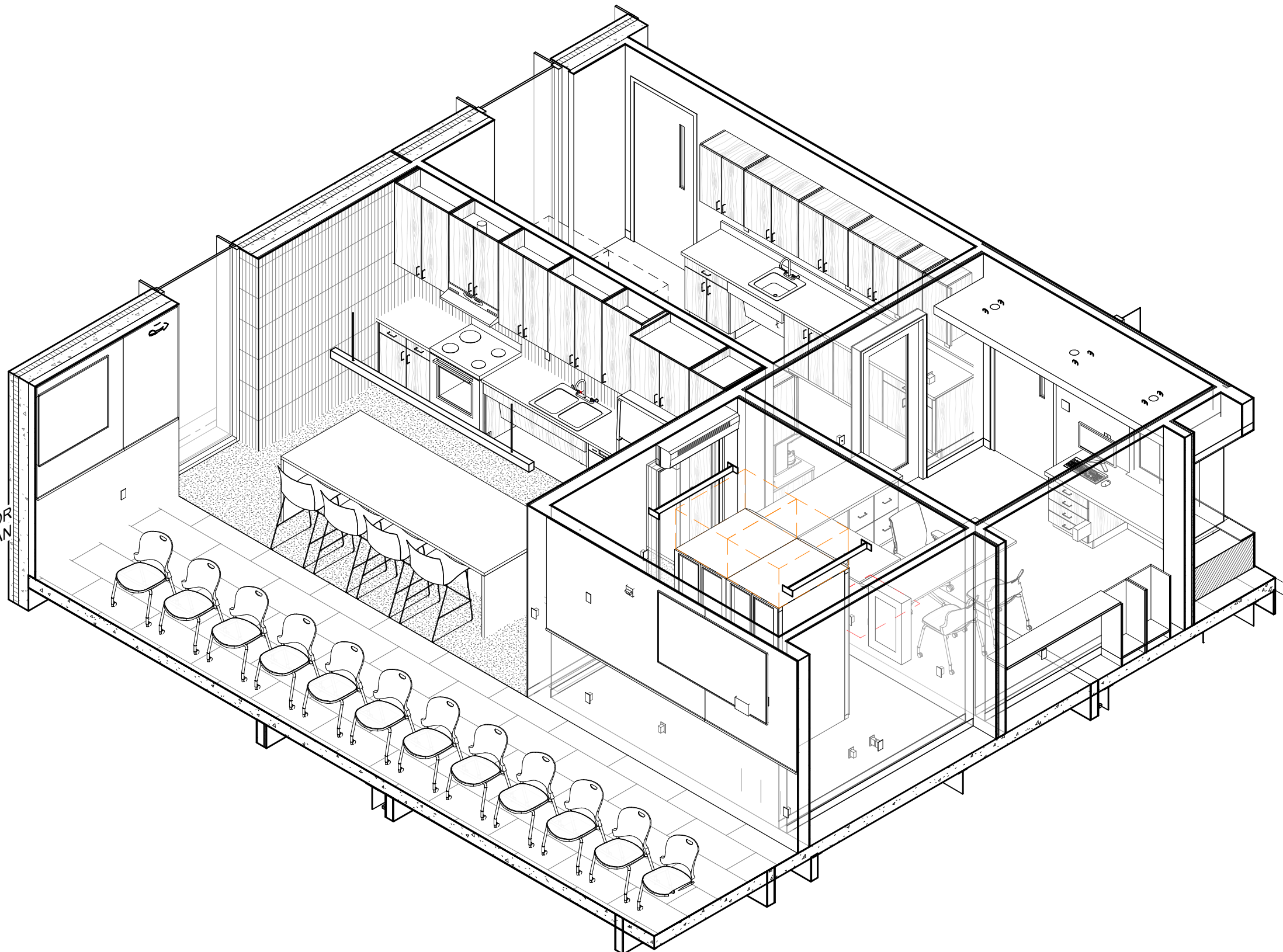


REVISION SCHEDULE

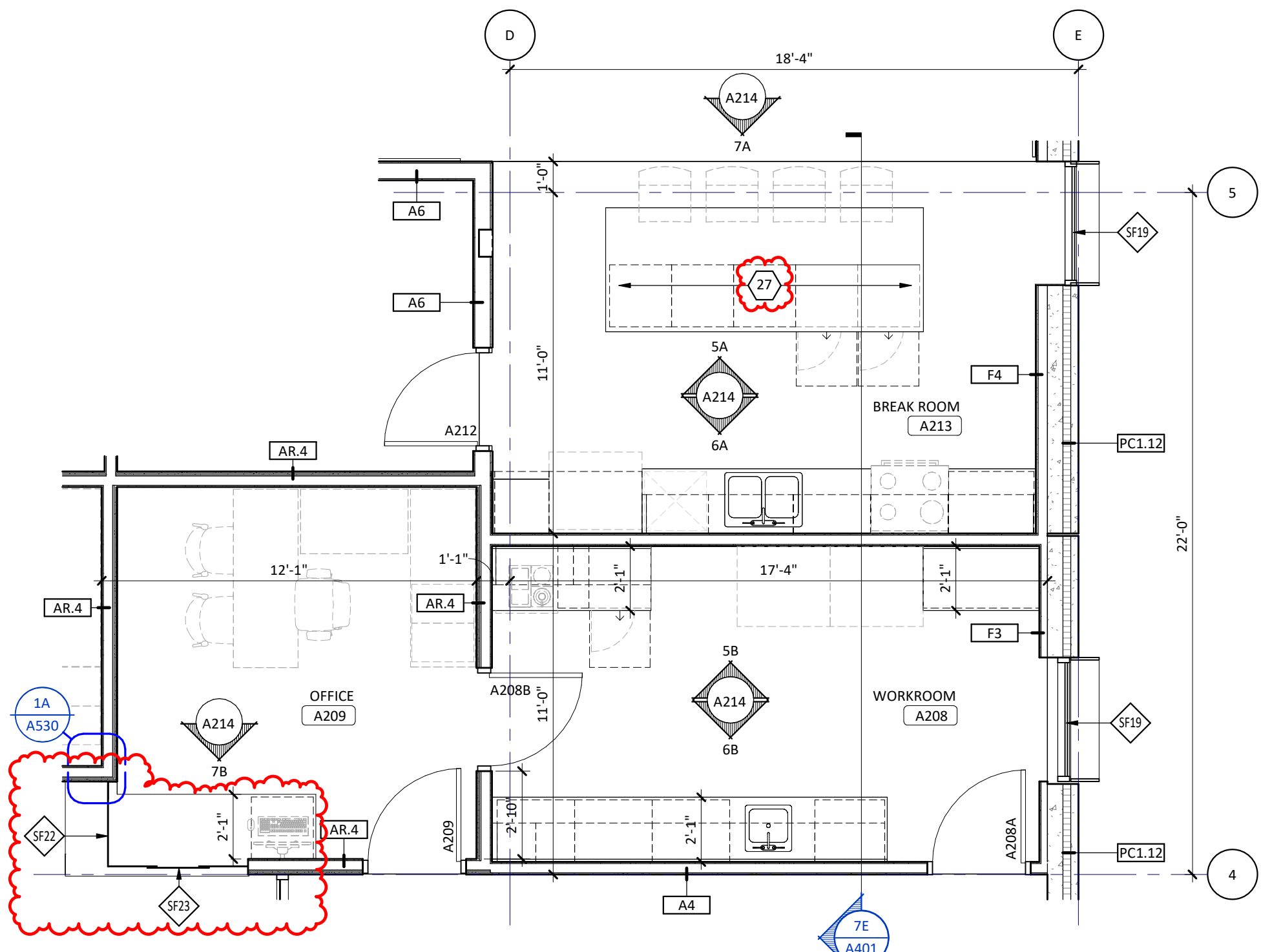
NO.	DESCRIPTION	DATE
2	ADDENDUM #2	11/07/25

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

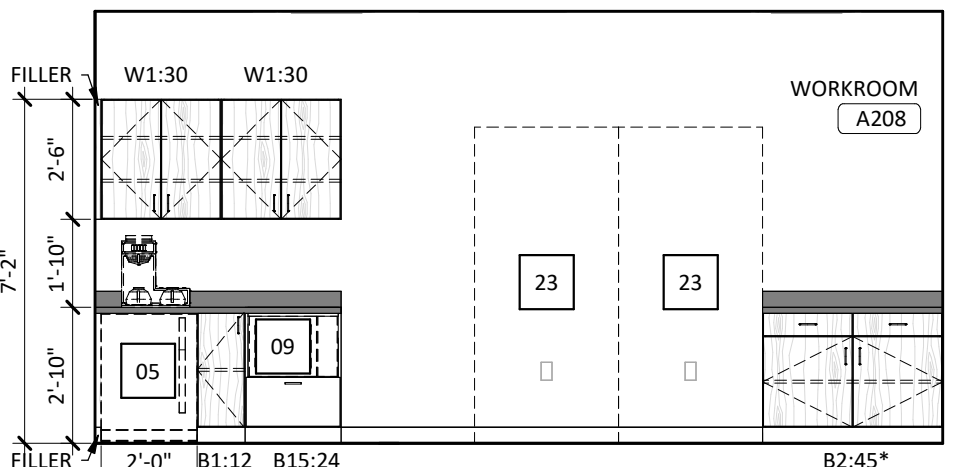
DATE
10/21/2025
PHASE
CONSTRUCTION
DOCUMENTS
PROJECT
24146.01
SHEET
A214
ENLARGED PLANS
AND ELEVATIONS



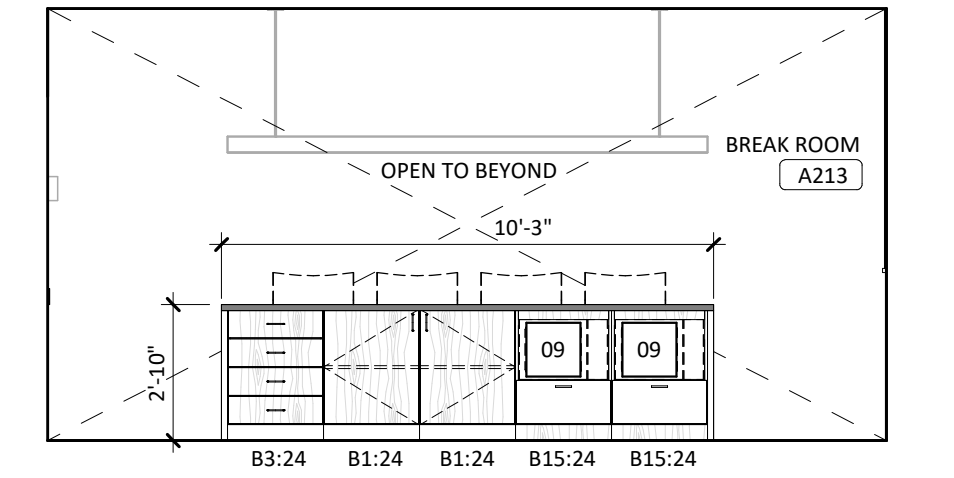
2A
A214
BREAK ROOM A213 - AXON
SCALE:



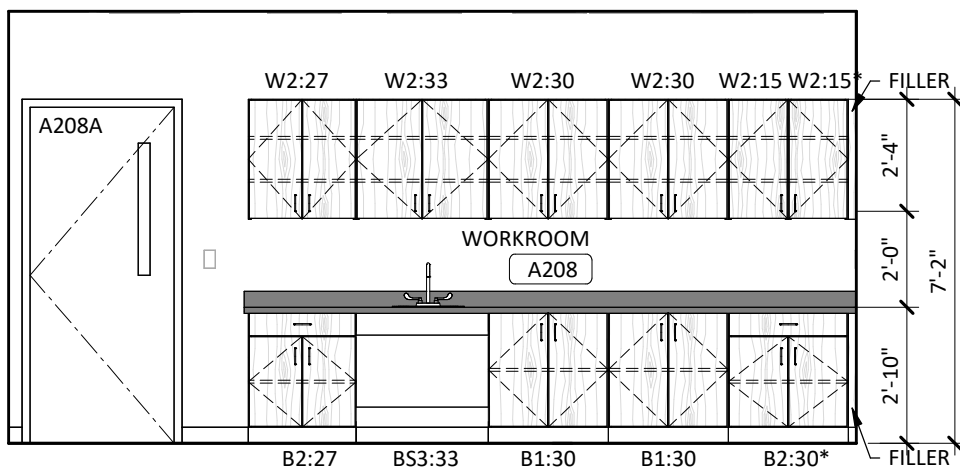
4A
A214
BREAK ROOM A213 - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



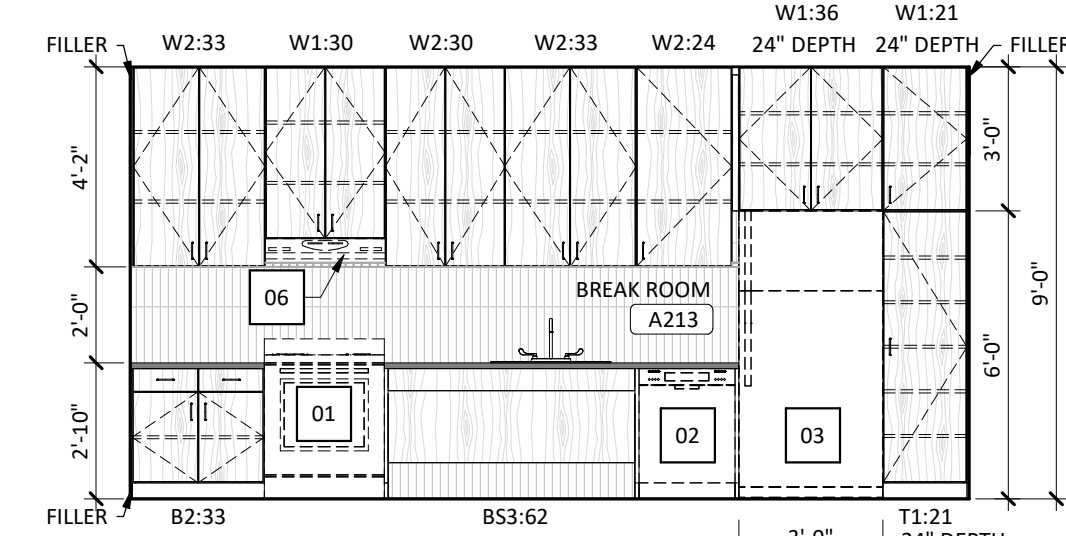
5B
A214
WORKROOM A208 - NORTH
SCALE: 1/4" = 1'-0"



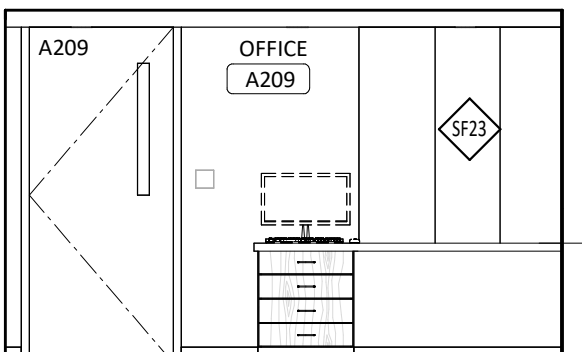
5A
A214
BREAK ROOM A213 - NORTH
SCALE: 1/4" = 1'-0"



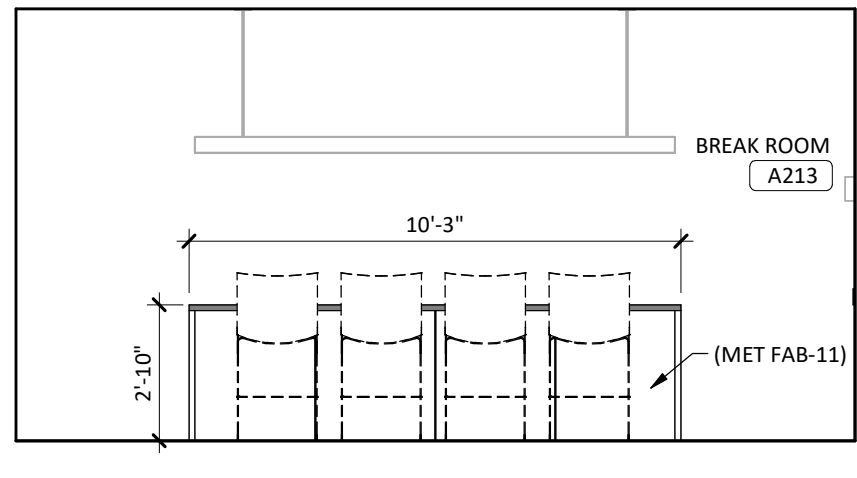
6B
A214
WORKROOM A208 - SOUTH
SCALE: 1/4" = 1'-0"



6A
A214
BREAK ROOM A213 - SOUTH
SCALE: 1/4" = 1'-0"



7B
A214
OFFICE A209 - SOUTH
SCALE: 1/4" = 1'-0"



7A
A214
BREAK ROOM A213 ISLAND - SOUTH
SCALE: 1/4" = 1'-0"

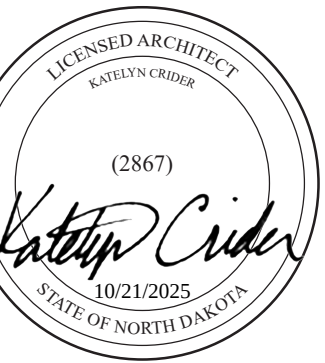
DOOR SCHEDULE																							
DOOR INFO				PANEL SIZE (*) = UNEQUAL PANELS			THK		DOOR TYPE		PANEL INFO		GLZ		FRAME INFO		GLZ		JAMB		DETAIL INFO		NOTES
NUMBER	HW SET	RATING	ROOM NAME	WIDTH	PANEL 1	PANEL 2	HEIGHT				MAT'L	FINISH			MAT'L	FINISH				HEAD	SILL	COMMENTS	REV.
BASEMENT																							
A001	38.0		SECURE ENTRY	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3A/A225	2A/A225	--		
A003	14.0		UNIFORM STORAGE	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3A/A225	2A/A225	--		
A004	5.0		RANGE MASTER	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3A/A225	2A/A225	--		
A005	13.0		HALLWAY	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	PT-3	GL-1	1	HM	PT-3	--			3A/A225	2A/A225	--		
A006	11.0		AIR LOCK	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	PT-3	GL-1	1	HM	PT-3	--			3B/A225	2B/A225	--		
A009	11.0		GUN CLEANING	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3A/A225	2A/A225	--		
A010	18.0		ARMORY	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3A/A225	2A/A225	--		
A011	12.0		RESTROOM	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3A/A225	2A/A225	--		
A012	14.0		STORAGE	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3A/A225	2A/A225	--		
A013	18.0		HALLWAY	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	PT-3	GL-1	1	HM	PT-3	--			3A/A225	2A/A225	--		
A014	14.0		MECHANICAL	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
A015	14.0		MECHANICAL	6'-0"	3'-0"		7'-0"	1 3/4"	F / F	HM	PT-3	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
A015A	14.2	45 MIN.	FIRE PUMP	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
EL-01	--	60 MIN.	ELEVATOR	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3B/A225	2B/A225	--		1
STB-0	31.2	60 MIN.	STAIR B	3'-4"	3'-4"		7'-0"	1 3/4"	N	HM	PT-3	GL-1	1	HM	PT-3	--			3B/A225	2B/A225	--		
LEVEL 1																							
A101A	238.0		VESTIBULE	3'-10"	3'-10"		7'-0"	1 3/4"	FG	AL	PREFIN	GL-1	--	AL	PREFIN	GL-1							
A101B	334.0		VESTIBULE	3'-10"	3'-10"		7'-0"	1 3/4"	FG	AL	PREFIN	INSUL-GL-1	--	AL	PREFIN	INSUL-GL-1							
A103	1.0		CONFERENCE ROOM	3'-0"	3'-0"		7'-0"	1 3/4"	FG	AL	PREFIN	GL-1	--	AL	PREFIN	GL-1							
A104A	11.0		LOBBY	3'-0"	3'-0"		7'-0"	1 3/4"	FG	AL	PREFIN	GL-1	--	AL	PREFIN	GL-1							
A104B	18.1		LOBBY	3'-0"	3'-0"		7'-0"	1 3/4"	FG	HM	PT-3	--	3	HM	PT-3	GL-1						BULLET RESISTANT DOOR	1
A106	338.0		HALLWAY	3'-0"	3'-0"		7'-0"	1 3/4"	FG	AL	PREFIN	INSUL-GL-1	--	AL	PREFIN	INSUL-GL-1							
A108	5.0		DETECTIVE OFFICE	3'-0"	3'-0"		7'-0"	1 3/4"	FG	WD	PREFIN	GL-1	3	HM	PT-3	GL-1	3D/A225	2D/A225	--				
A109	5.0		SARGENT SHARED OFFICE	3'-0"	3'-0"		7'-0"	1 3/4"	FG	WD	PREFIN	GL-1	3	HM	PT-3	GL-1	3D/A225	2D/A225	--				
A110	5.0		TRUCK REG	3'-0"	3'-0"		7'-0"	1 3/4"	FG	WD	PREFIN	GL-1	3	HM	PT-3	GL-1	3D/A225	2D/A225	--				
A111	5.0		WORK ROOM	3'-0"	3'-0"		7'-0"	1 3/4"	FG	WD	PREFIN	GL-1	3	HM	PT-3	GL-1	3D/A225	2D/A225	--				
A113	1.0		DT PROCESSING	3'-0"	3'-0"		7'-0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
A114	12.0		DRUG TESTING	3'-0"	3'-0"		7'-0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
A116	12.0		RESTROOM	3'-0"	3'-0"		7'-0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
A117	12.0		RESTROOM	3'-0"	3'-0"		7'-0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
A118	5.0		EQUIP STORAGE	3'-0"	3'-0"		7'-0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
A119	14.0		NCIC / RECORD STORAGE	3'-0"	3'-0"		7'-0"	1 3/4"	FG	WD	PREFIN	GL-1	3	HM	PT-3	GL-1	3D/A225	2D/A225	--				
A120	5.0		SHERIFF OFFICE	3'-0"	3'-0"		7'-0"	1 3/4"	FG	WD	PREFIN	GL-1	3	HM	PT-3	GL-1	3D/A225	2D/A225	--				
A121	5.0		CHIEF DEPUTY OFFICE	3'-0"	3'-0"		7'-0"	1 3/4"	FG	WD	PREFIN	GL-1	3	HM	PT-3	GL-1	3D/A225	2D/A225	--				
A122	11.0		BREAK ROOM	3'-0"	3'-0"		7'-0"	1 3/4"	FG	AL	PREFIN	GL-1	--	AL	PREFIN	GL-1	3C/A225	2C/A225	--				
A123	13.0		INTERVIEW	3'-0"	3'-0"		7'-0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
A124	11.0		JUVENILE INTERVIEW	3'-0"	3'-0"		7'-0"	1 3/4"	F	WD	PREFIN	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
A166A	--		FIRE EQUIPMENT BAY	16'-0"		2'				OH-W3	STL	PREFIN	INSUL-GL-1	VL	STL	PREFIN	--		4B/A225	4C/A225	4A/A225		
B150A	18.1		HALLWAY	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	PT-3	GL-1	1	HM	PT-3	--			1C/A225	1B/A225	--		
B150B	138.0		HALLWAY	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	PT-3	INSUL-GL-1	1	HM	PT-3	--			1C/A225	1B/A225	--		
B151	11.0		ELECTRICAL	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3B/A225	2B/A225	--		
B152	11.0		K-9 ROOM	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3B/A225	2B/A225	--		
B153	14.0		DEA STORAGE	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3C/A225	2C/A225	--		
B154	13.2		EVIDENCE PROCESSING	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	GL-1	1	HM	PT-3	--			3B/A225	2B/A225	--		
B155	13.0		CUSTODIAL	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3B/A225	2B/A225	--		
B156A	13.4		EM BAY	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	GL-1	1	HM	PT-3	--			3B/A225	2B/A225	--		
B156B	118.0		EM BAY	3'-0"	3'-0"		7'-0"	1 3/4"	N	AL	PREFIN	INSUL-GL-1	--	AL	PREFIN	INSUL-GL-1							
B156C	--		EM BAY	12'-0"			14'-0"	2"		OH-W3	STL	PREFIN	INSUL-GL-1	VL	STL	PREFIN	--		4B/A225	4C/A225	4A/A225		
B157A	11.4		LAUNDRY	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	HPC-2	GL-1	1	HM	HPC-2	--			3B/A225	2B/A225	--		
B157B	11.0		LAUNDRY	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	HPC-2	GL-1	1	HM	HPC-2	--			3B/A225	2B/A225	--		
B158A	118.0		WASH BAY	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	HPC-2	INSUL-GL-1	1	HM	HPC-2	--			1C/A225	1B/A225	--		
B158B	--		WASH BAY	16'-0"			14'-0"	2"		OH-W3	STL	PREFIN	INSUL-GL-1	VL	STL	PREFIN	--		4B/A225	4C/A225	4A/A225		
B159	11.0		WASH BAY EQUIP	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	HPC-2	--	1	HM	HPC-2	--			3B/A225	2B/A225	--		
B160	14.0		EVIDENCE STORAGE	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3B/A225	2B/A225	--		
B161A	--		EVIDENCE BAY	12'-0"			10'-0"	2"		OH-SL	STL	PREFIN	--	VL	STL	PREFIN	--						
B161B	--		EVIDENCE BAY	12'-0"			10'-0"	2"		OH-SL	STL	PREFIN	--	VL	STL	PREFIN	--						
B162	--		SM EVIDENCE	9'-0"			8'-0"	2"		OH-SL	STL	PREFIN	--	VL	STL	PREFIN	--						
B163A	18.5		HALLWAY	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1	HM	PT-3	--			3B/A225	2B/A225	--		
B163B	--		SHERIFF'S DEPARTMENT VEHICLES	16'-0"			14'-0"	2"		OH-W3	STL	PREFIN	INSUL-GL-1	VL	STL	PREFIN	--		4B/A225	4C/A225	4A/A225		
B163C	--		SHERIFF'S DEPARTMENT VEHICLES	16'-0"			14'-0"	2"		OH-W3	STL	PREFIN	INSUL-GL-1	VL	STL	PREFIN	--		4B/A225	4C/A225	4A/A225		
B163D	--		SHERIFF'S DEPARTMENT VEHICLES	16'-0"			14'-0"	2"		OH-W3	STL	PREFIN	INSUL-GL-1	VL	STL	PREFIN	--		4B/A225	4C/A225	4A/A225		
B163E	118.0		SHERIFF'S DEPARTMENT VEHICLES	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	PT-3	INSUL-GL-1	1	HM	PT-3	--			1C/A225	1B/A225	--		
B164A	--		RAPID DEPLOYMENT	16'-0"			14'-0"	2"		OH-W3	STL	PREFIN	INSUL-GL-1	VL	STL	PREFIN	--		4B/A225	4C/A225	4A/A225		
B164B	--		RAPID DEPLOYMENT	16'-0"			14'-0"	2"		OH-W3	STL	PREFIN	INSUL-GL-1	VL	STL	PREFIN	--		4B/A225	4C/A225	4A/A225		
B165	12.1		RESTROOM	3'-0"	3'-0"		7'-0"	1 3/4"	F	HM	PT-3	--	1A	HM	PT-3	--			1C/A225	1B/A225	--		
B166B	118.0		FIRE EQUIPMENT BAY	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	PT-3	INSUL-GL-1	1	HM	PT-3	--			1C/A225	1B/A225	--		
B166C	118.0		FIRE EQUIPMENT BAY	3'-0"	3'-0"		7'-0"	1 3/4"	N	HM	PT-3	INSUL-GL-1	1	HM	PT-3	--			1C/A225	1B/A225	--		
</																							

SHEET SPEC ID LIST	
SPEC ID	SPEC SECTION & DESCRIPTION
ALCRTN-1	08 4313 - ALUMINUM CURTAIN WALL
ALSTOR-1	08 4313 - ALUMINUM STORE FRONT
ALSTOR-2	08 4313 - ALUMINUM STORE FRONT
GL-1	08 8000 - 1/4 INCH GLASS
INSUL GL-1	08 8000 - CLEAR INSULATED GLAZING
INSUL GL-40	08 8000 - INSULATED SPANDREL GLASS
INSUL SEC GL-1	08 8000 - INSULATED LAMINATED SECURITY GLAZING
SEC GL-1	08 8000 - LAMINATED SECURITY GLAZING
WTHR STL-1	07 4213 - WEATHERING STEEL WALL PANEL

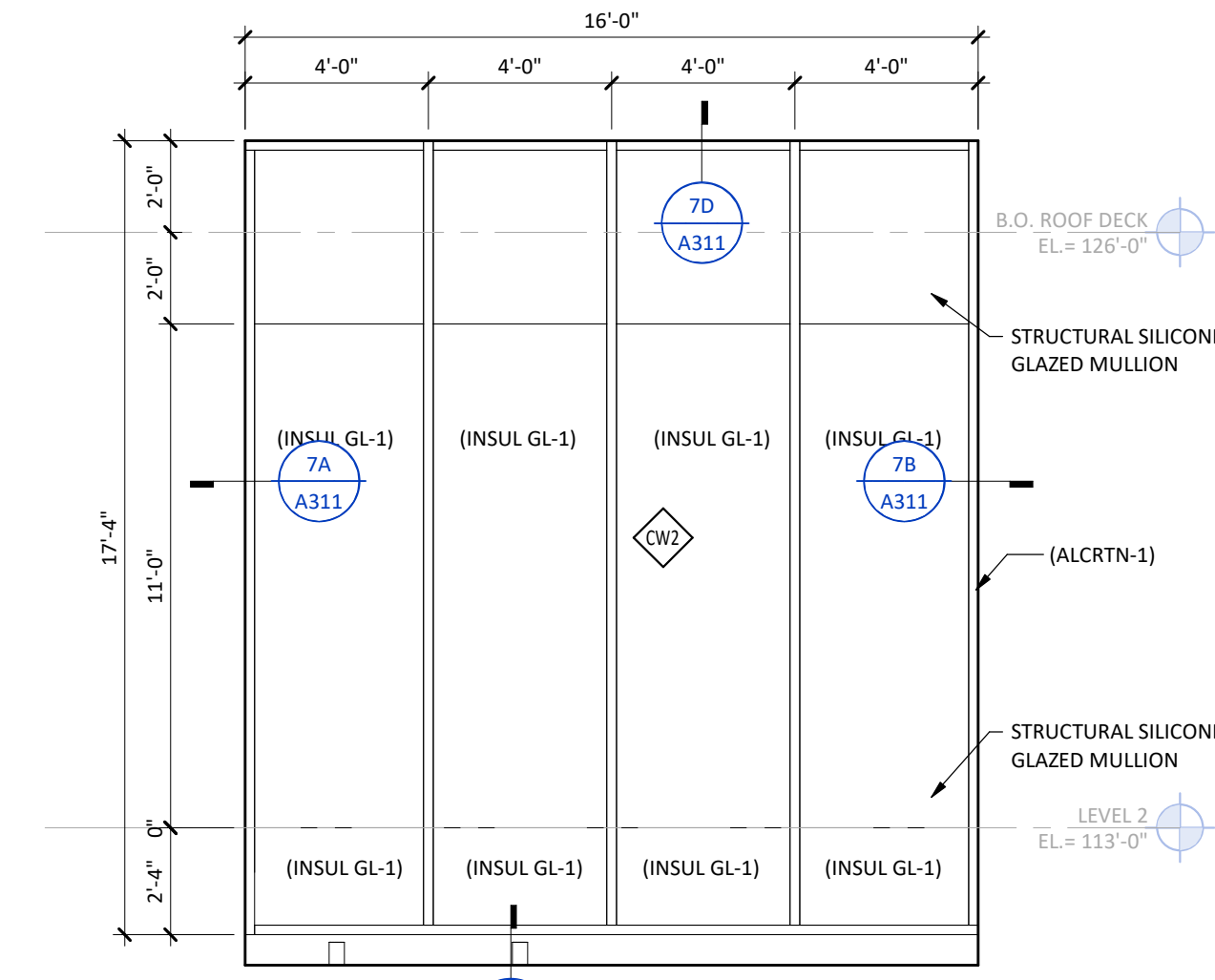
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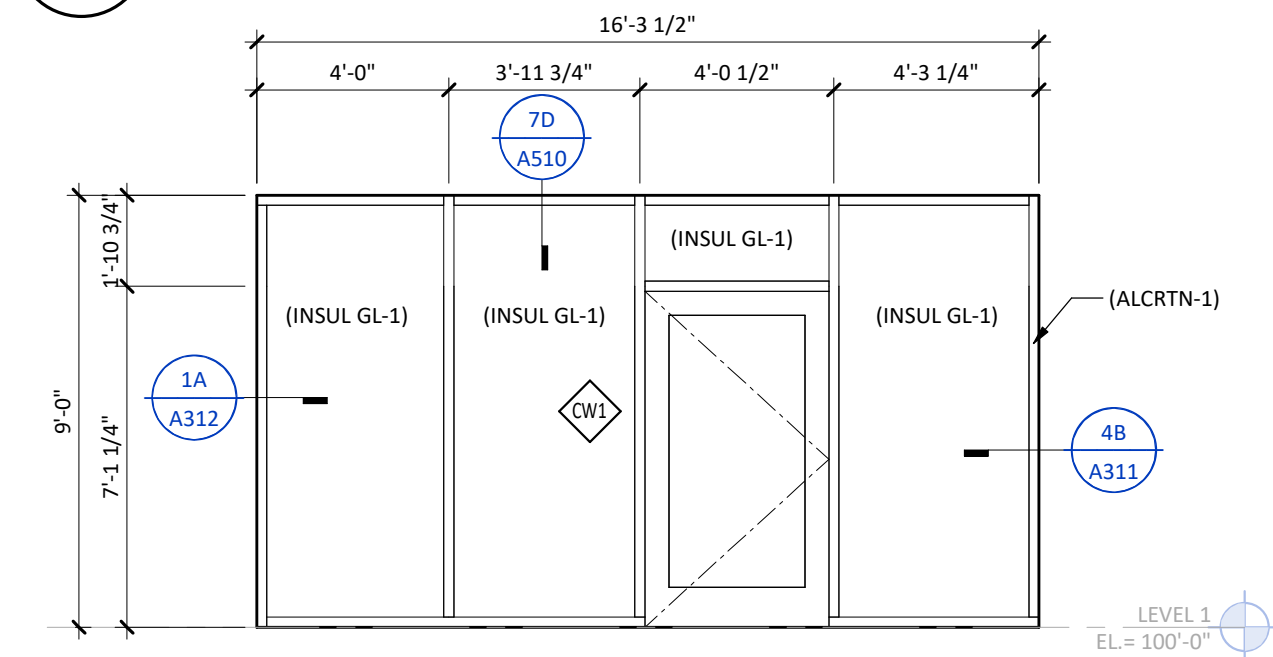
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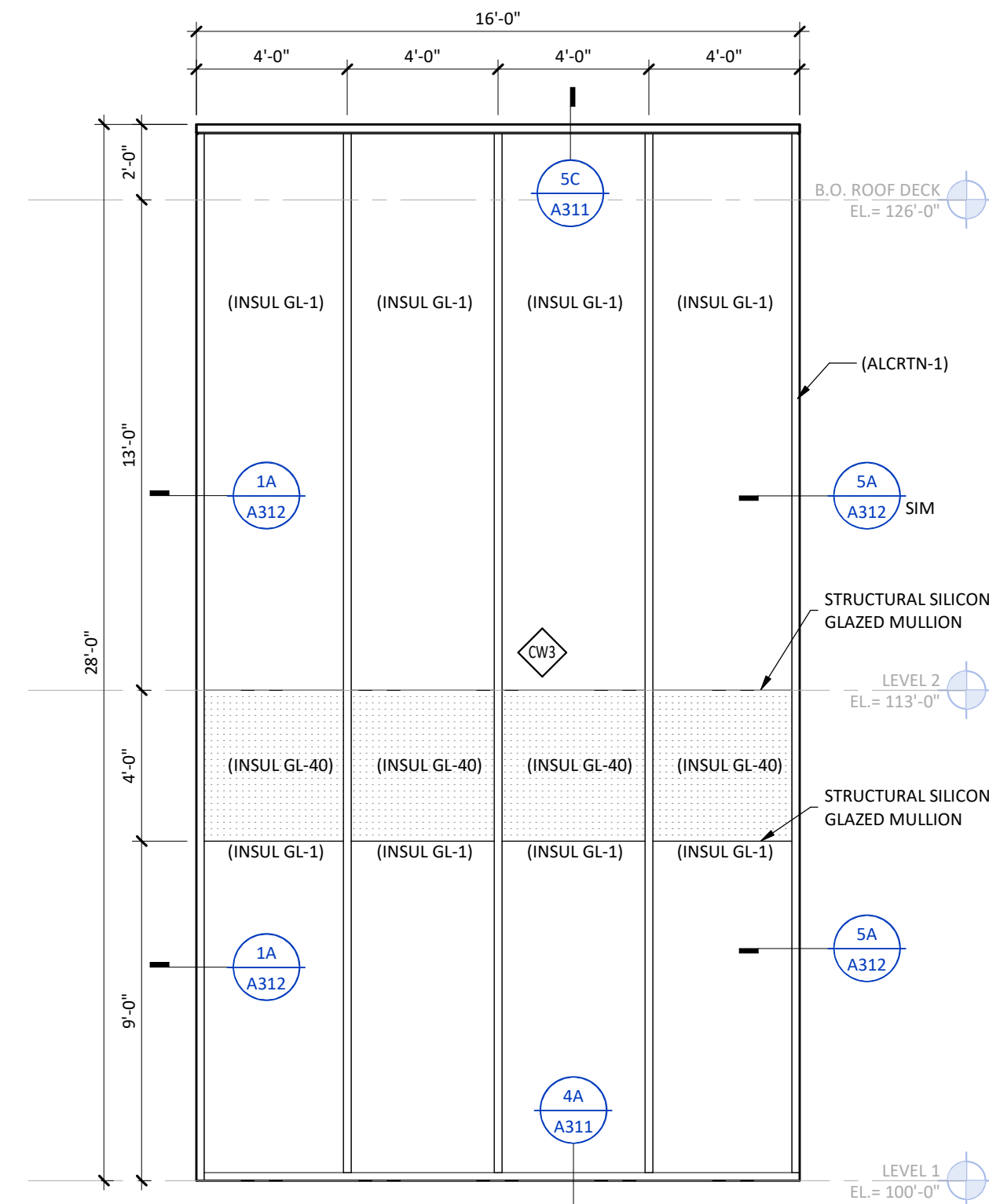
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
2	ADDENDUM #2	11/07/25



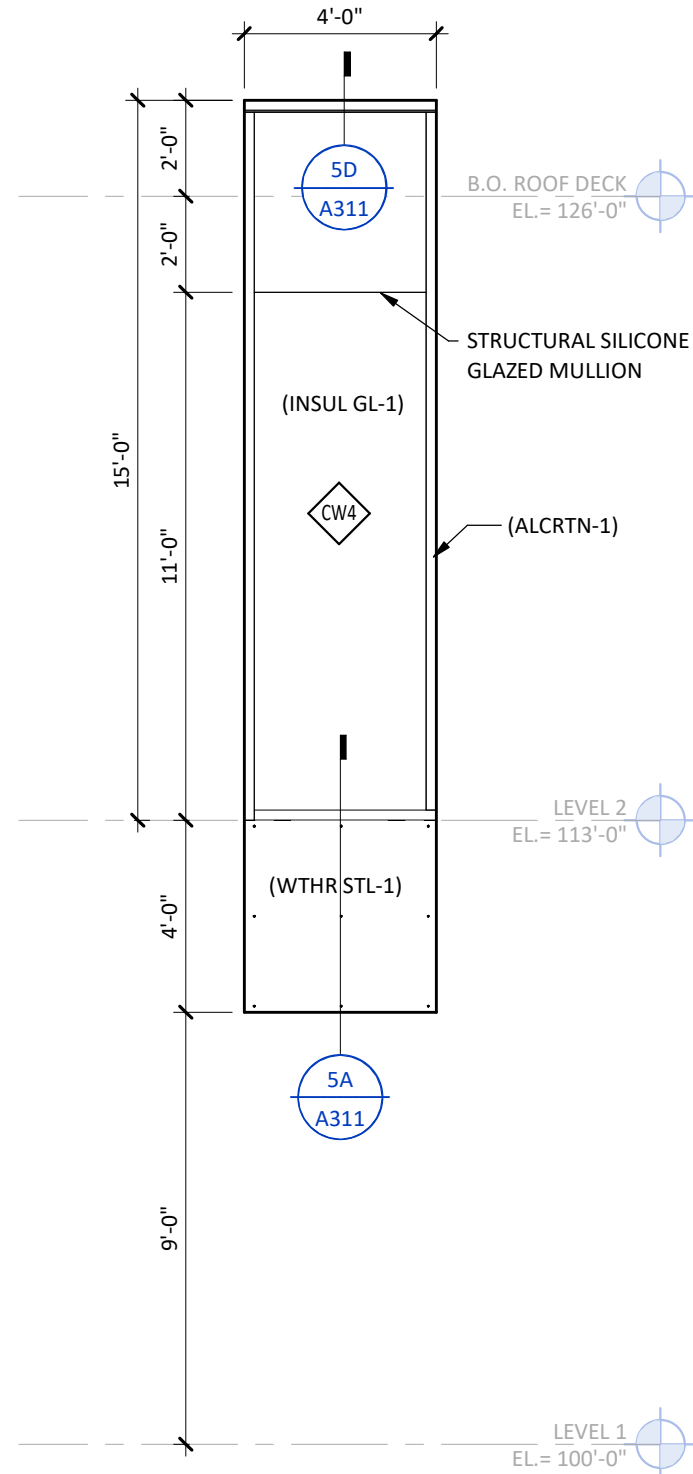
7D CW2 - EXTERIOR
SCALE: 1/4" = 1'-0"



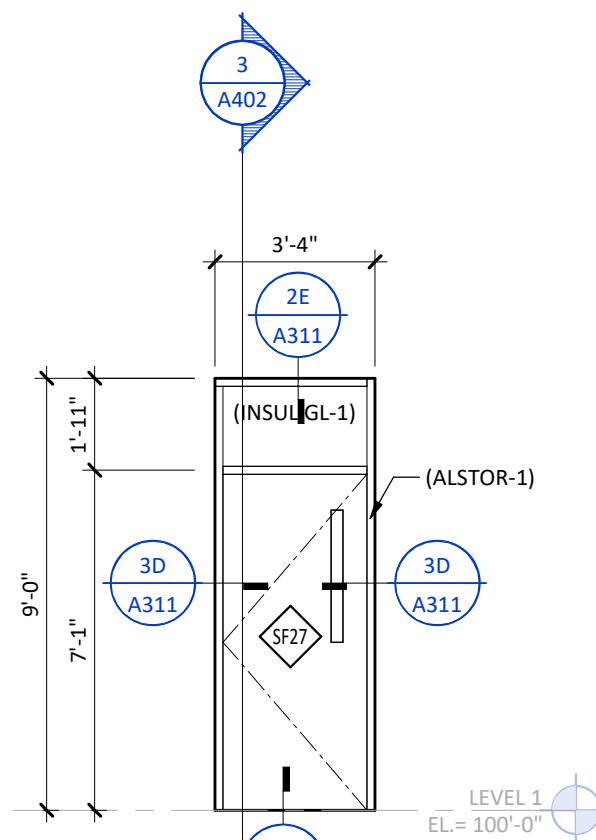
8D CW1 - EXTERIOR
SCALE: 1/4" = 1'-0"



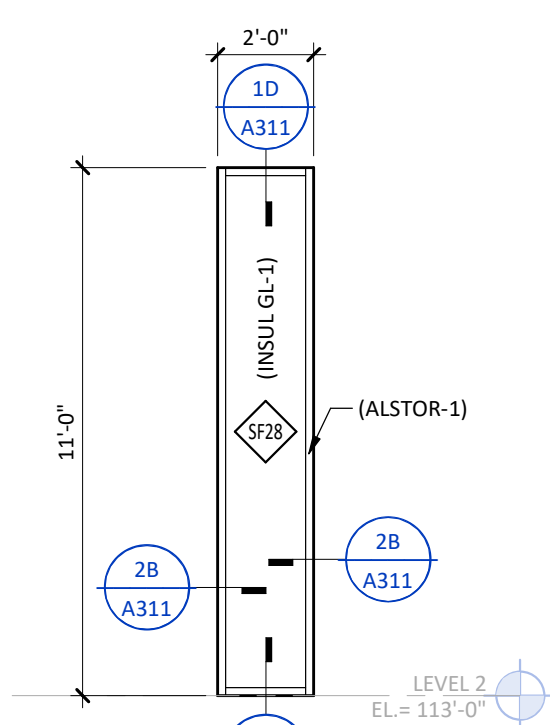
5D CW3 - EXTERIOR
SCALE: 1/4" = 1'-0"



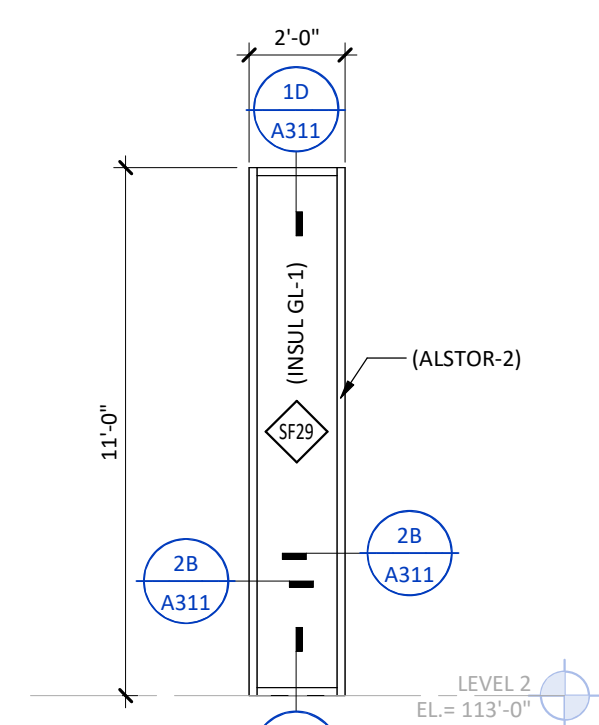
1D CW4 - EXTERIOR
SCALE: 1/4" = 1'-0"



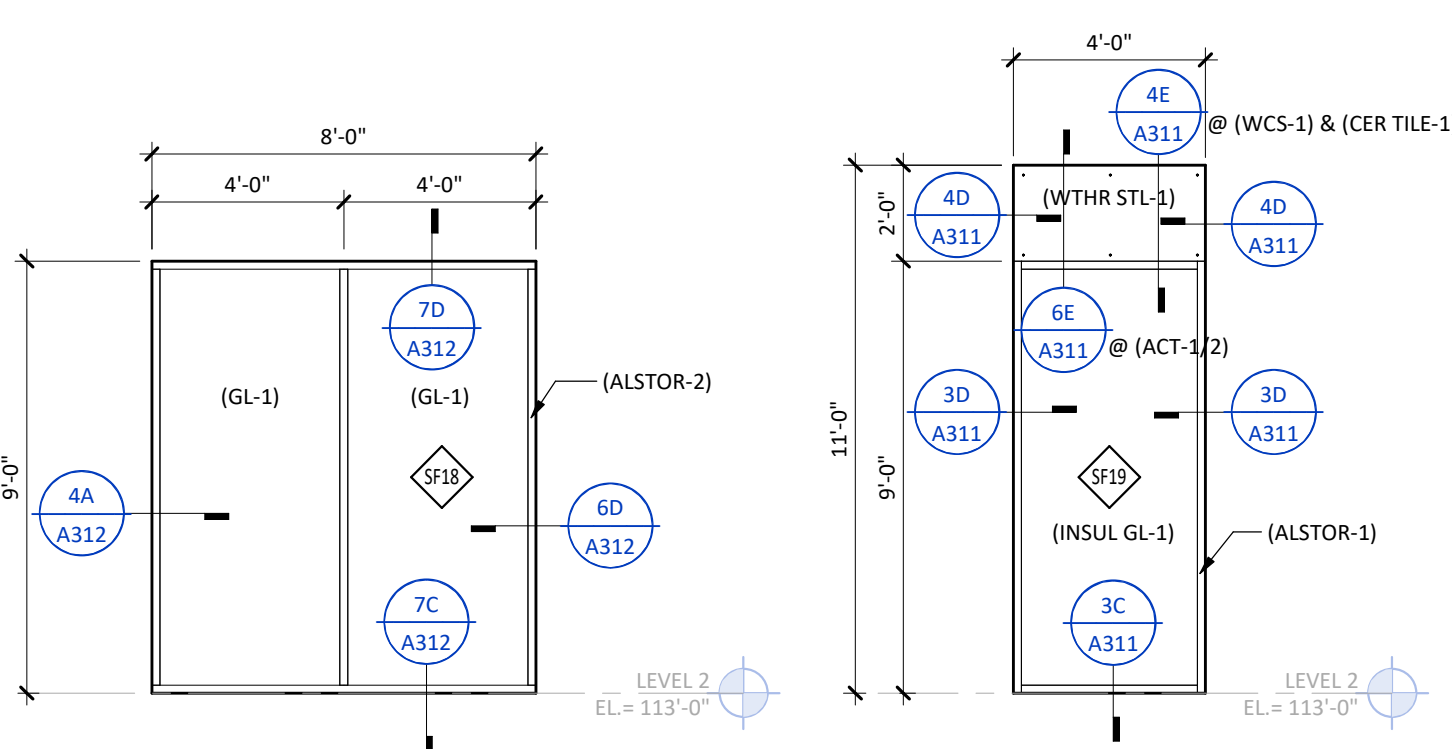
4D SF27 - EXTERIOR
SCALE: 1/4" = 1'-0"



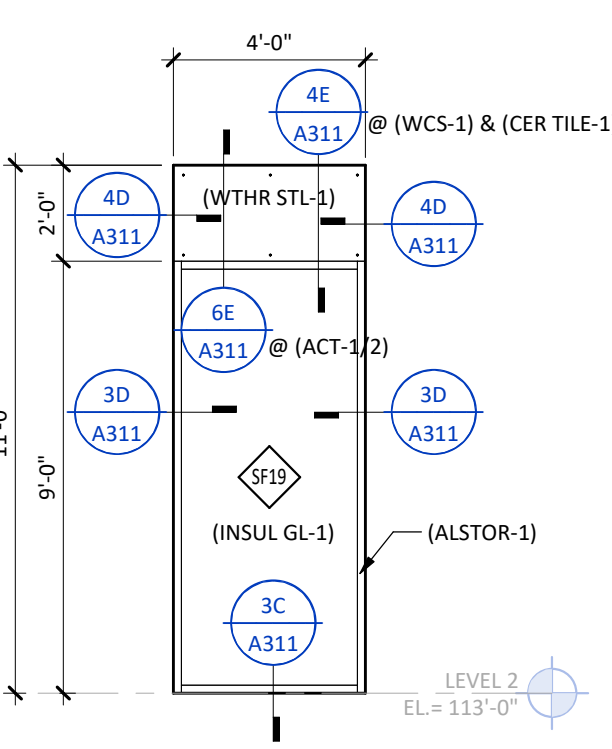
3D SF28 - EXTERIOR
SCALE: 1/4" = 1'-0"



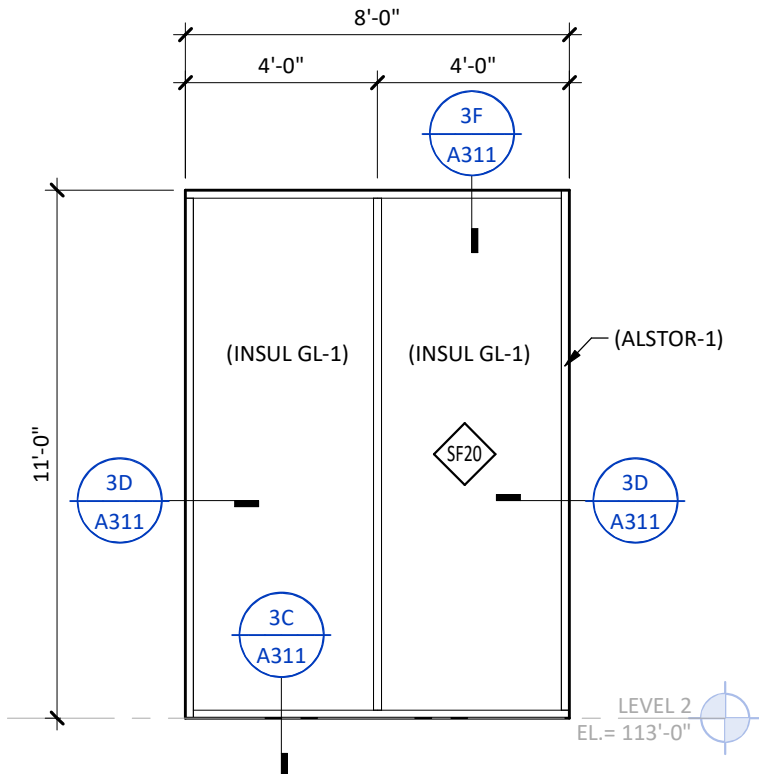
2D SF29 - INTERIOR
SCALE: 1/4" = 1'-0"



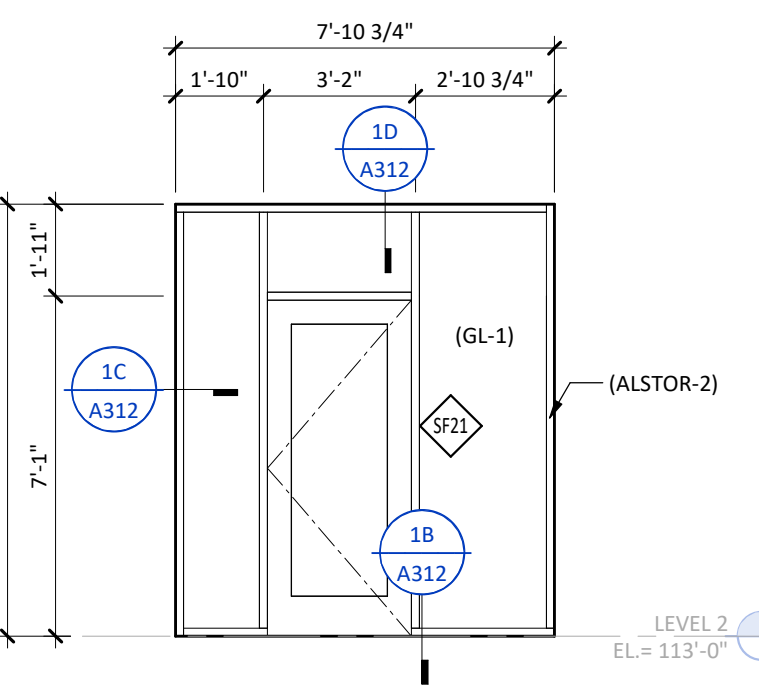
9C SF18 - INTERIOR
SCALE: 1/4" = 1'-0"



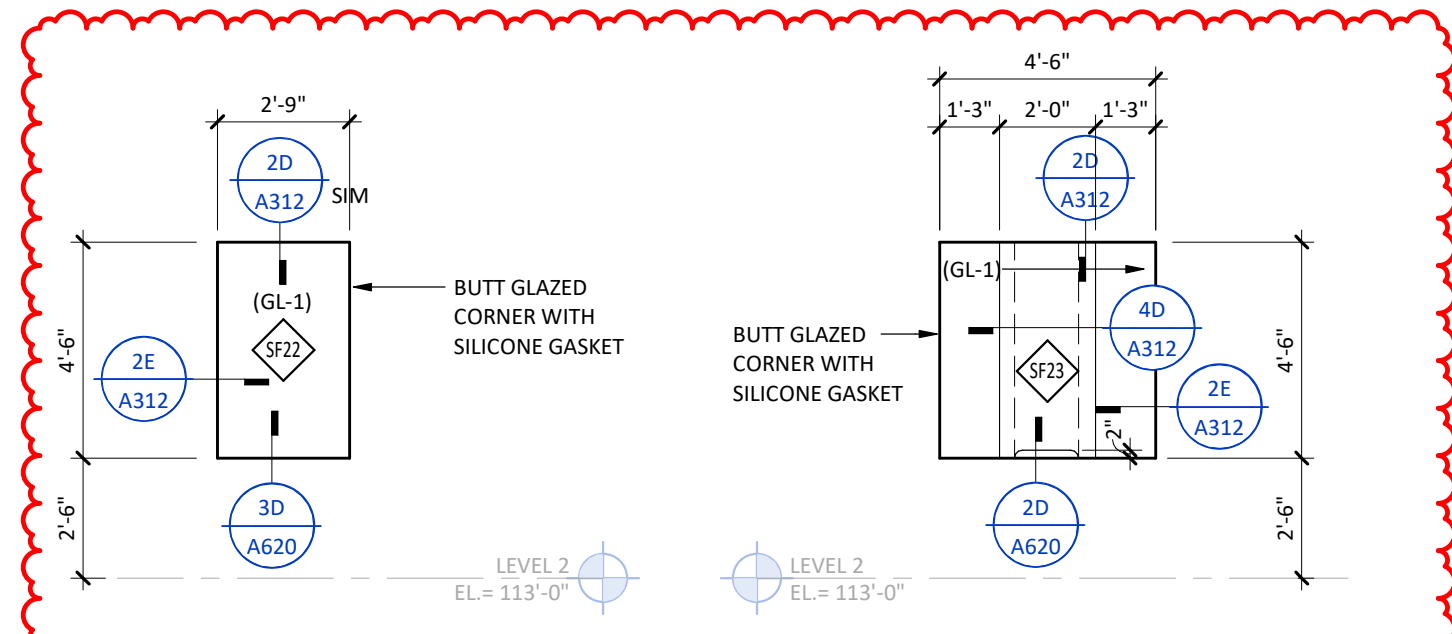
8C SF19 - EXTERIOR
SCALE: 1/4" = 1'-0"



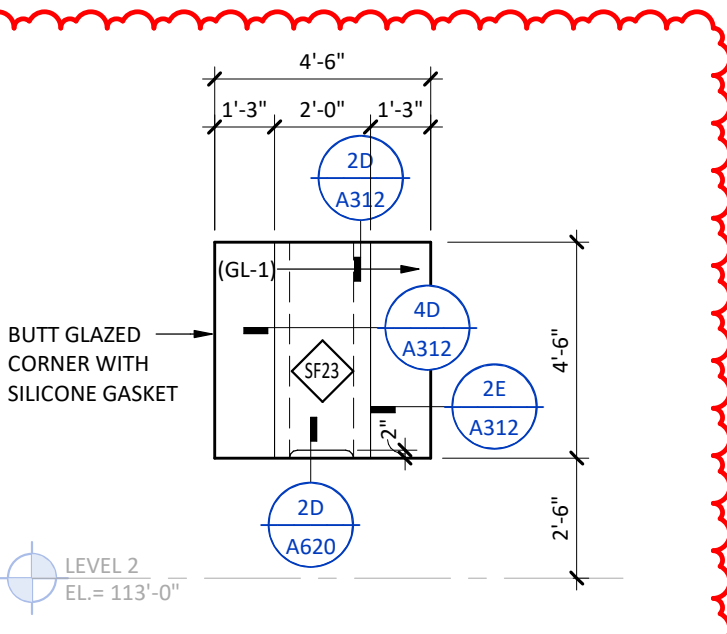
7C SF20 - EXTERIOR
SCALE: 1/4" = 1'-0"



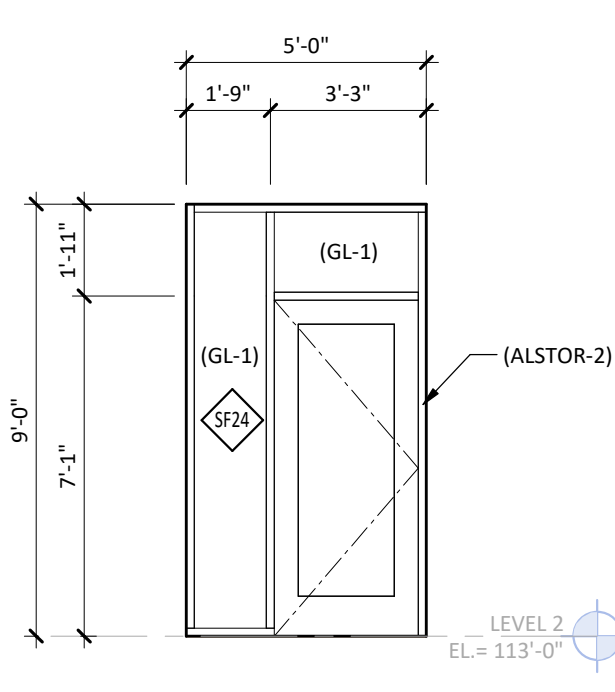
6C SF21 - INTERIOR
SCALE: 1/4" = 1'-0"



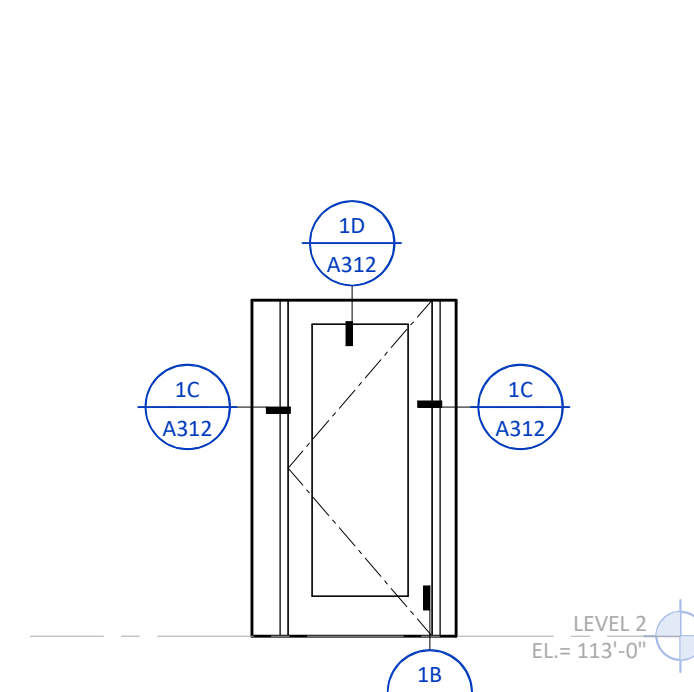
5C SF22 - INTERIOR
SCALE: 1/4" = 1'-0"



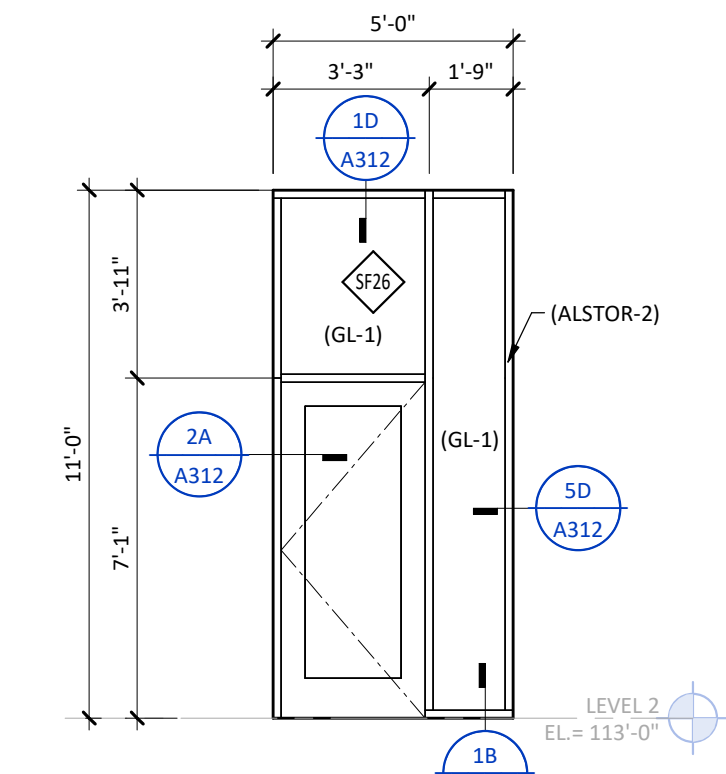
4C SF23 - INTERIOR
SCALE: 1/4" = 1'-0"



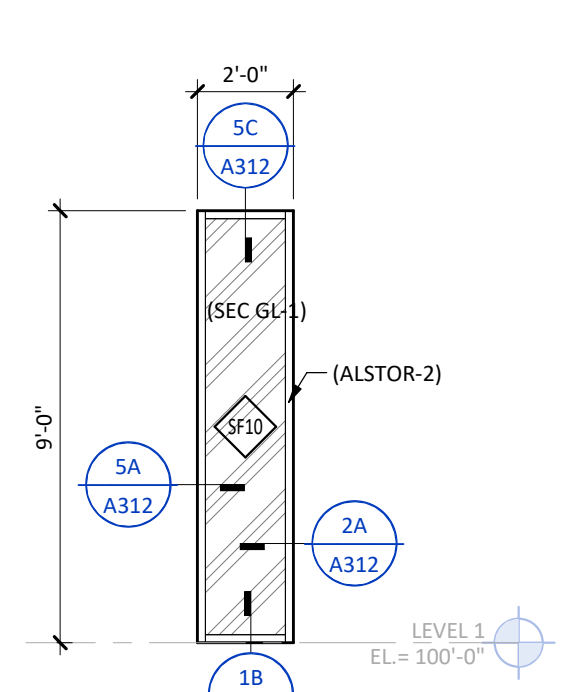
3C SF24 - INTERIOR
SCALE: 1/4" = 1'-0"



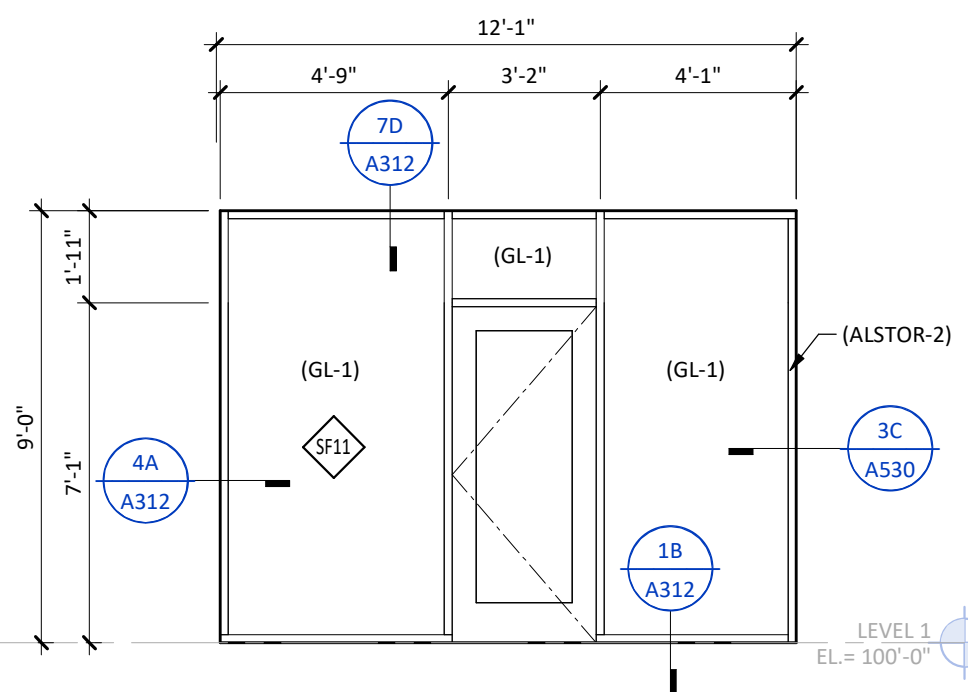
2C SF25 - INTERIOR
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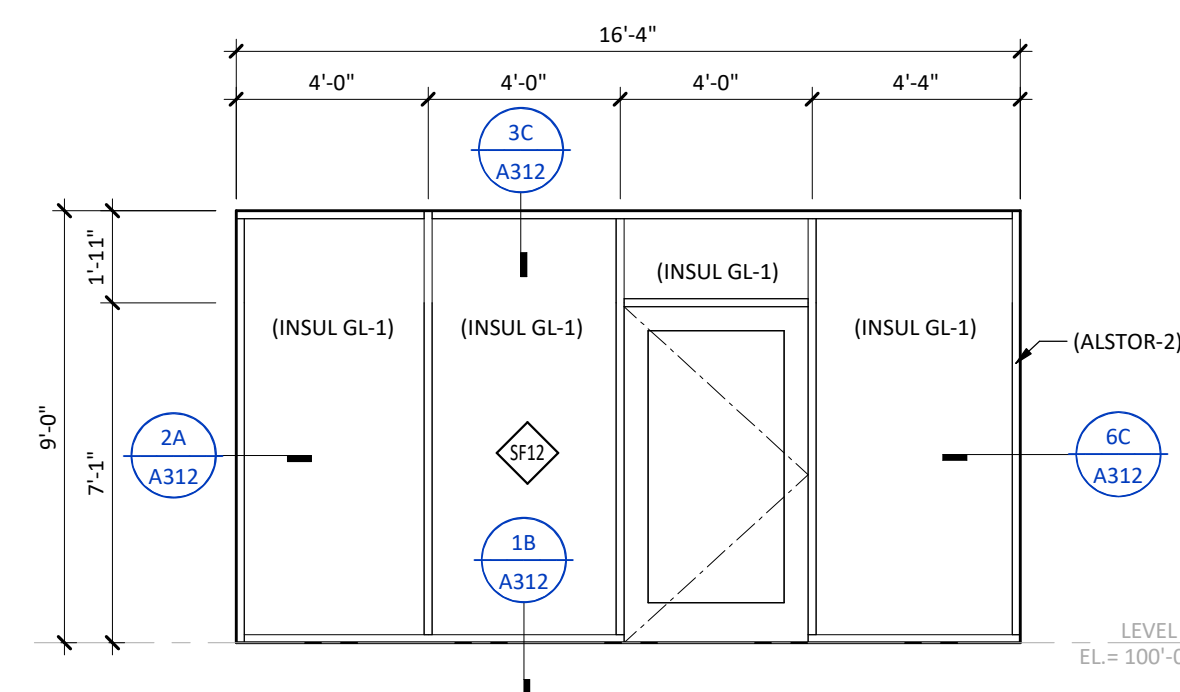
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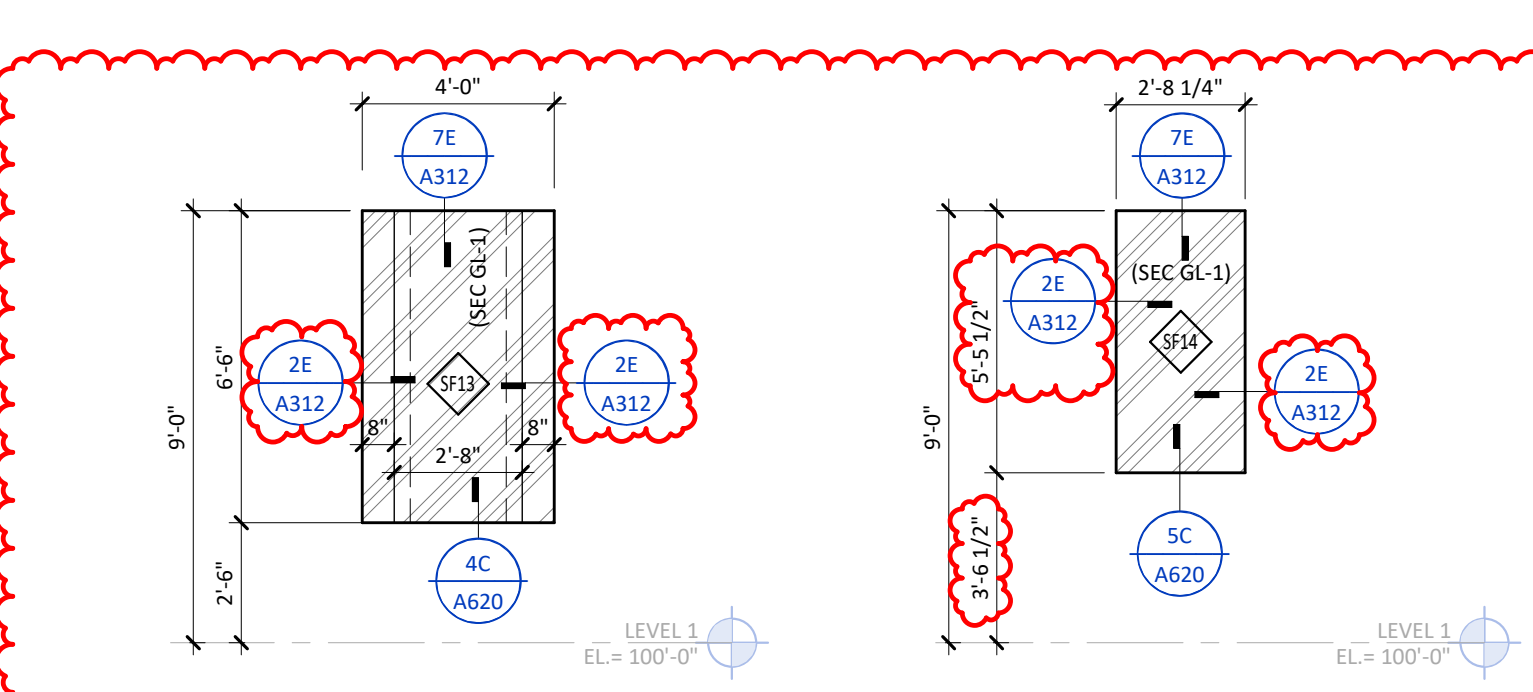
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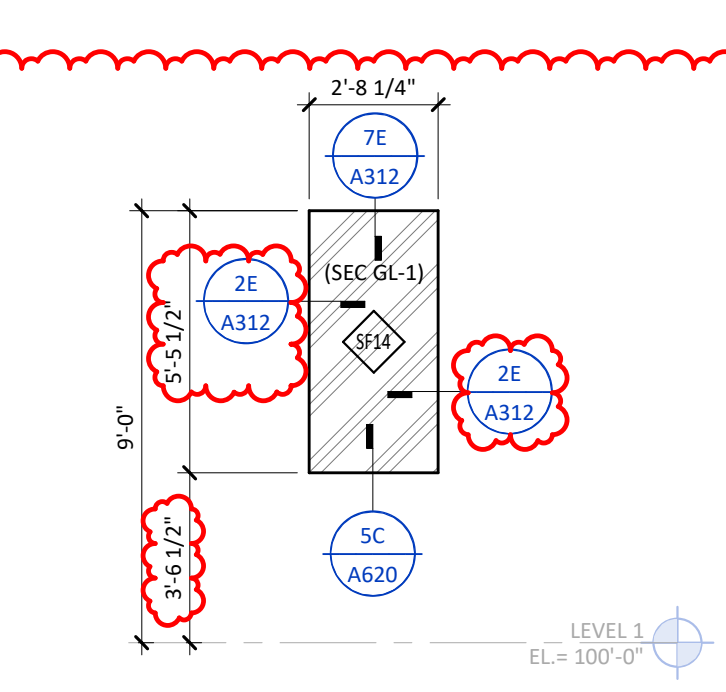
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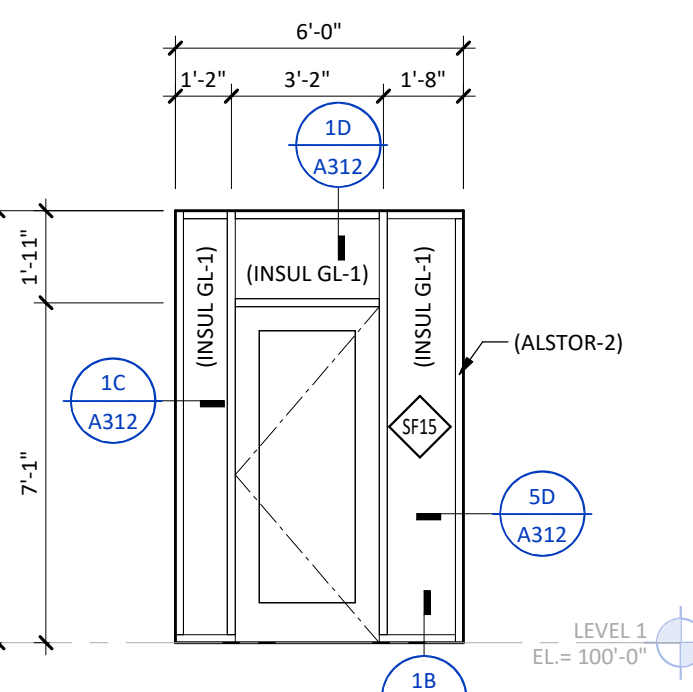
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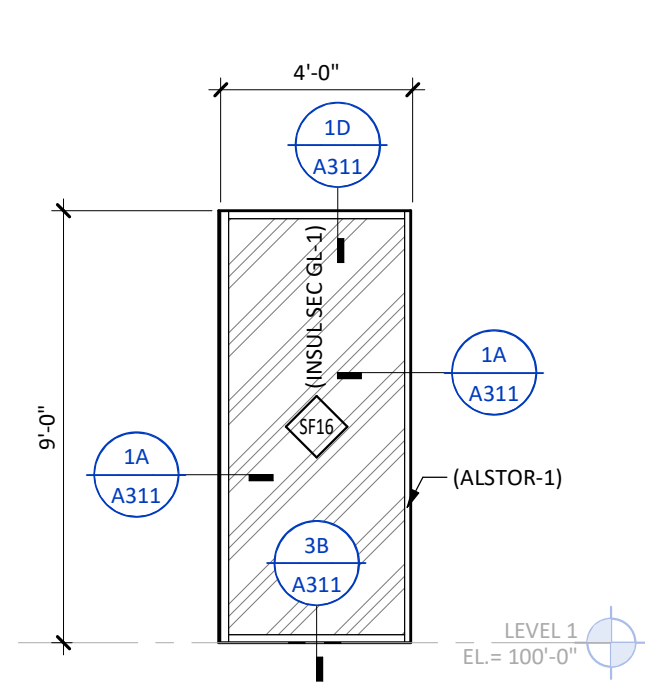
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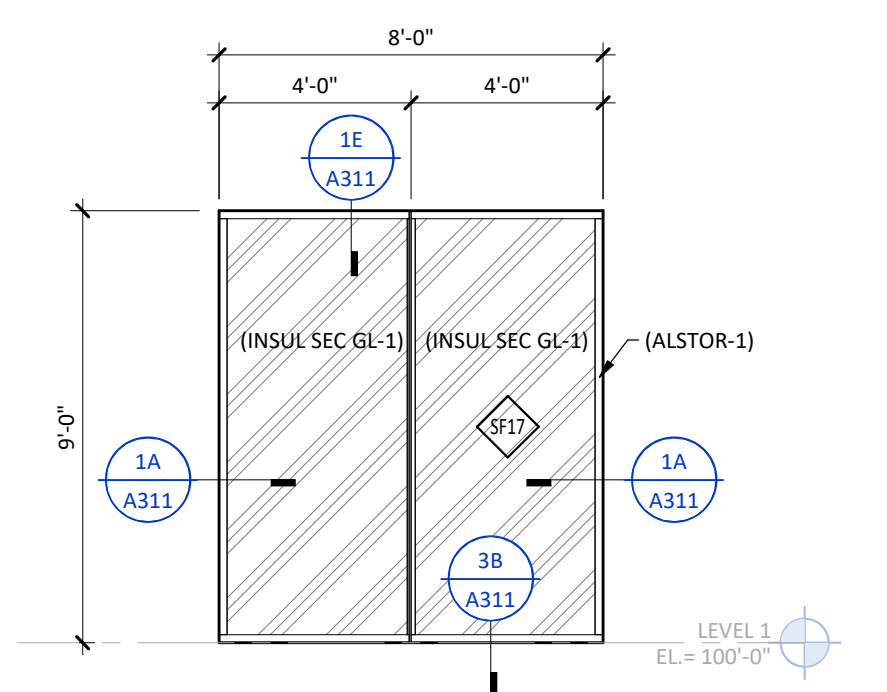
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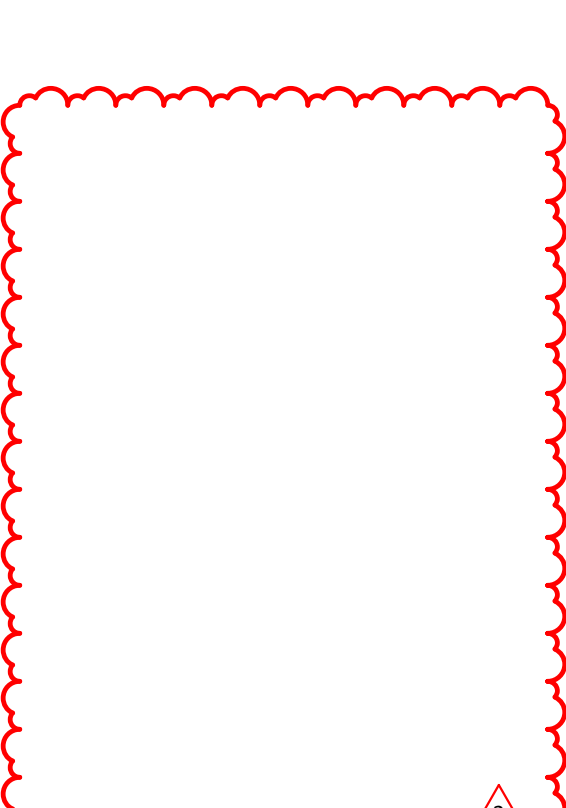
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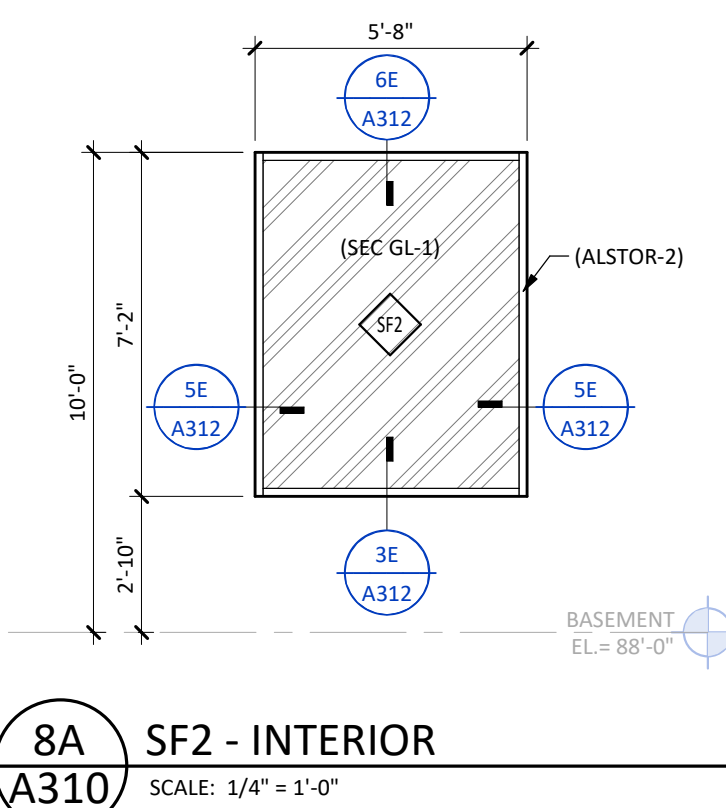
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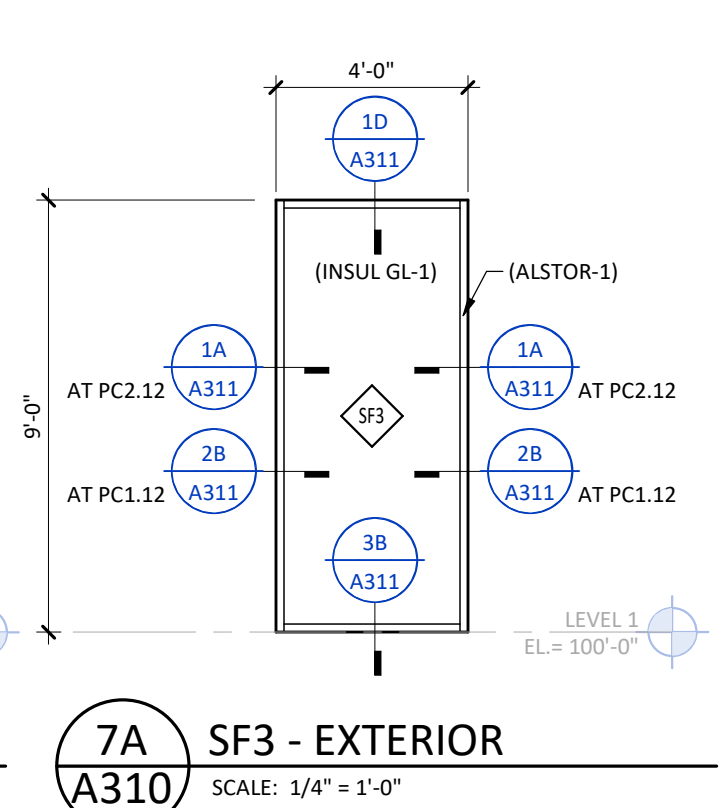
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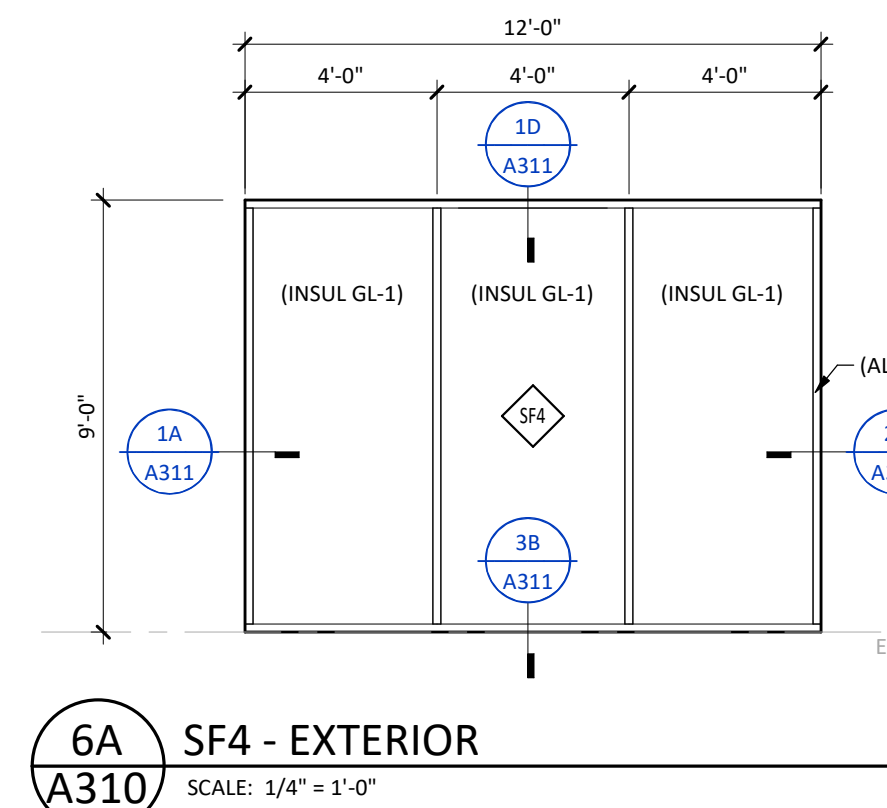
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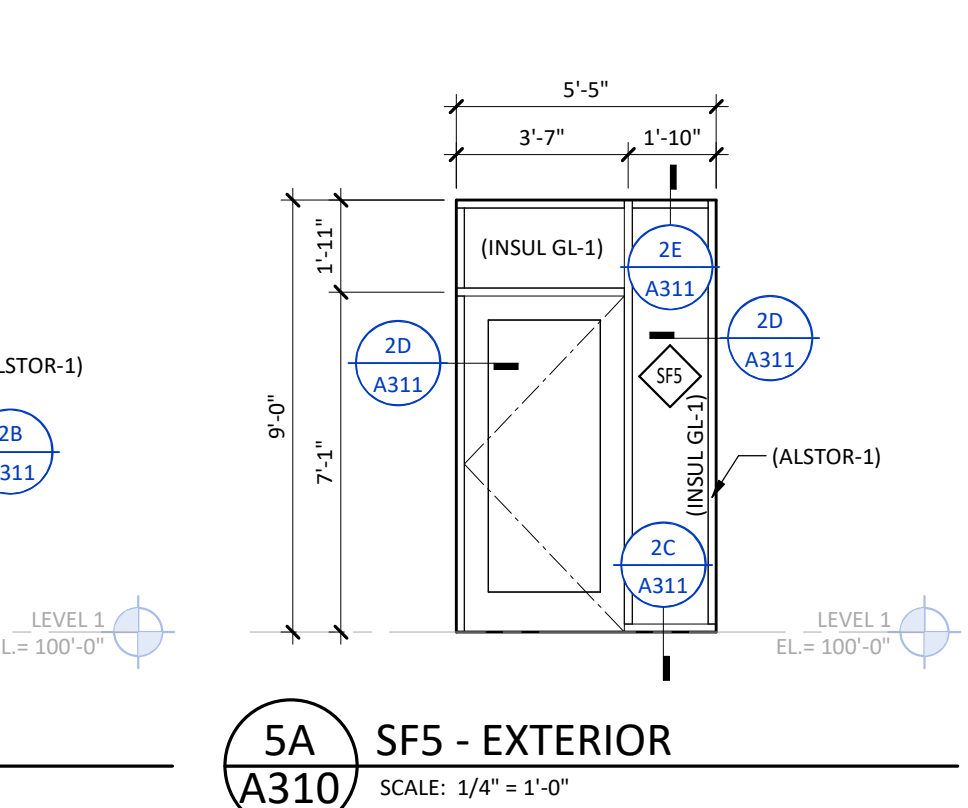
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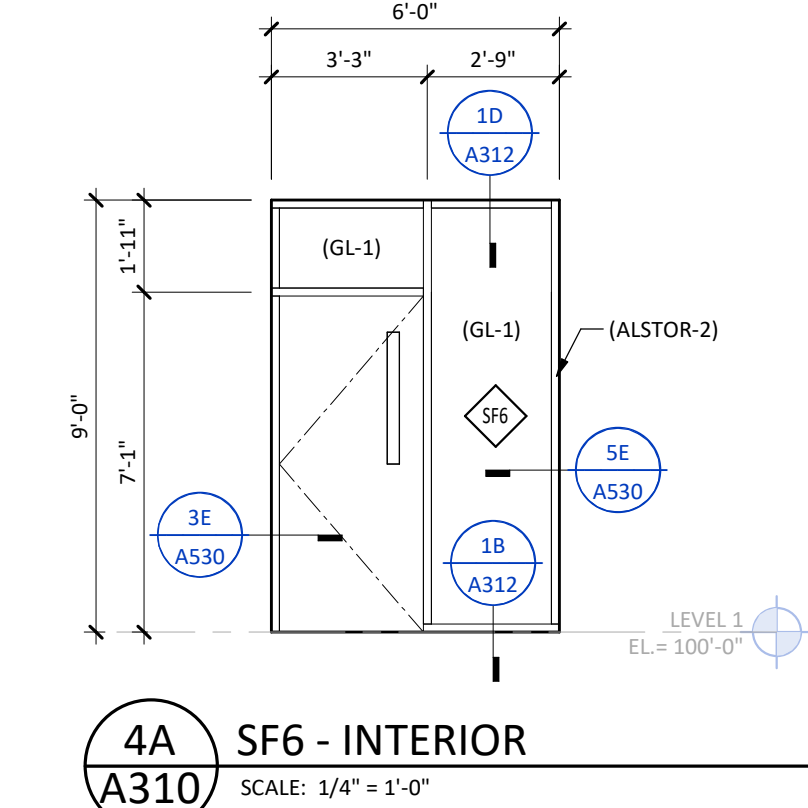
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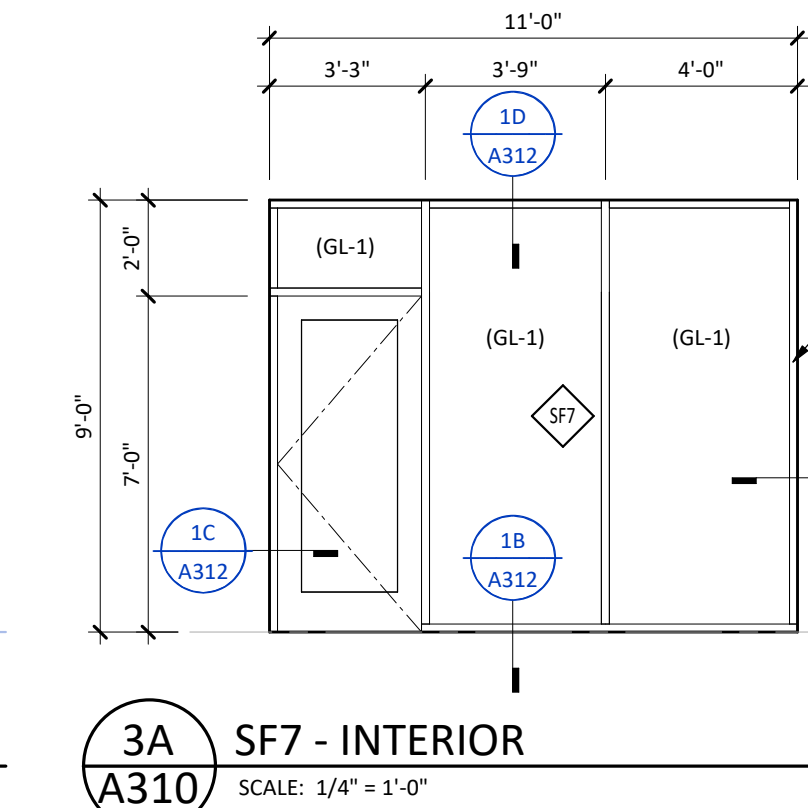
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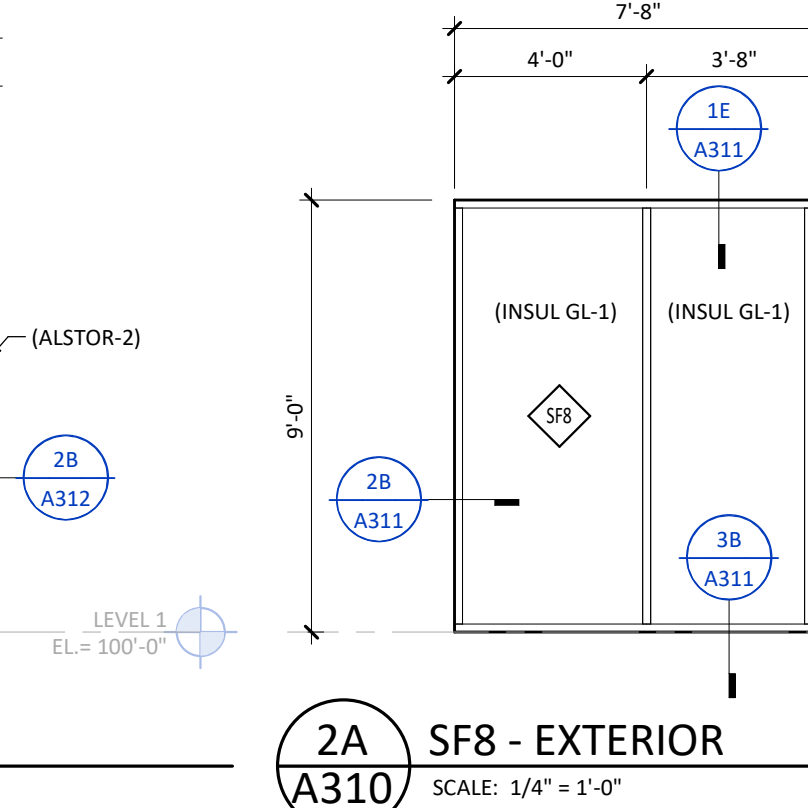
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2A SF8 - EXTERIOR
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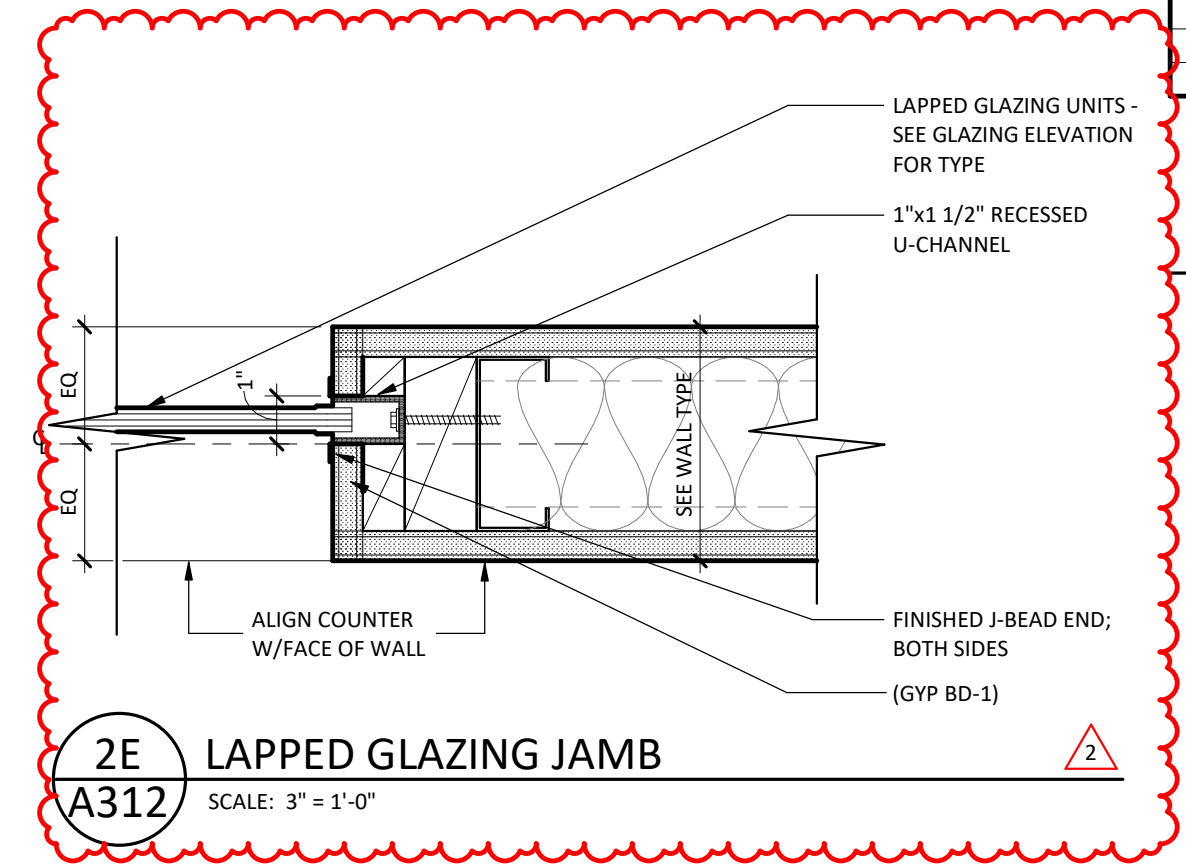
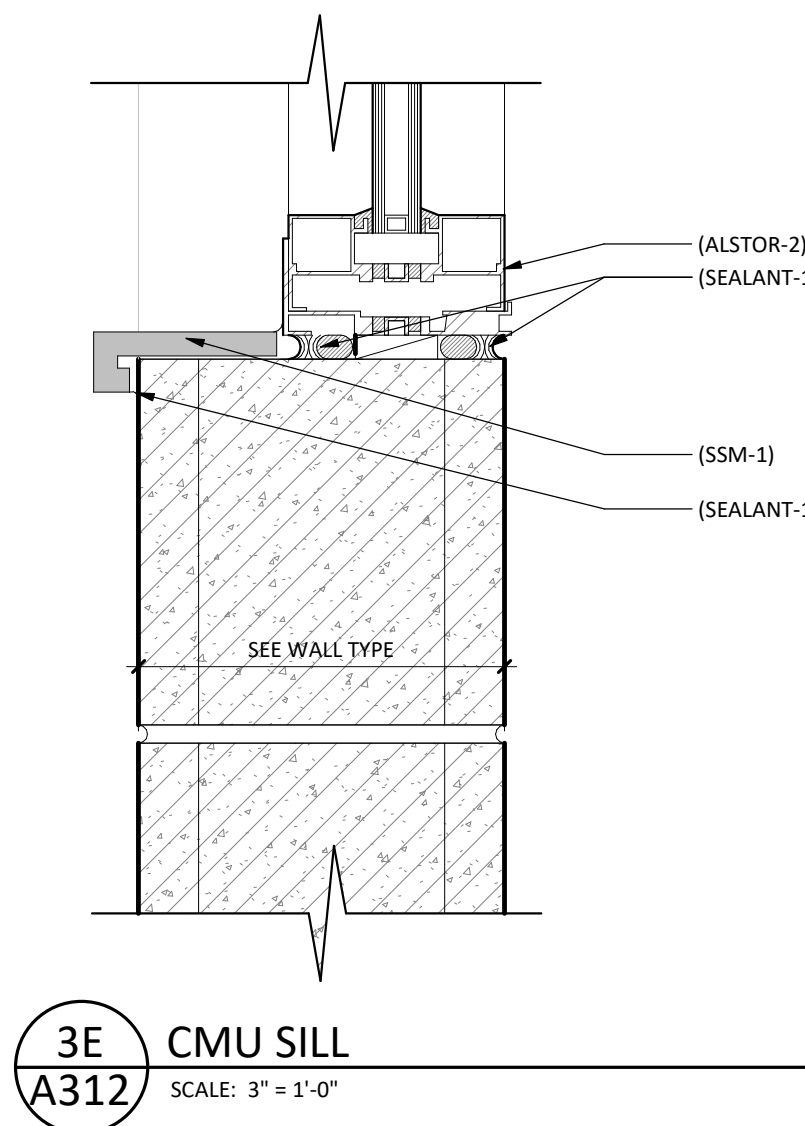
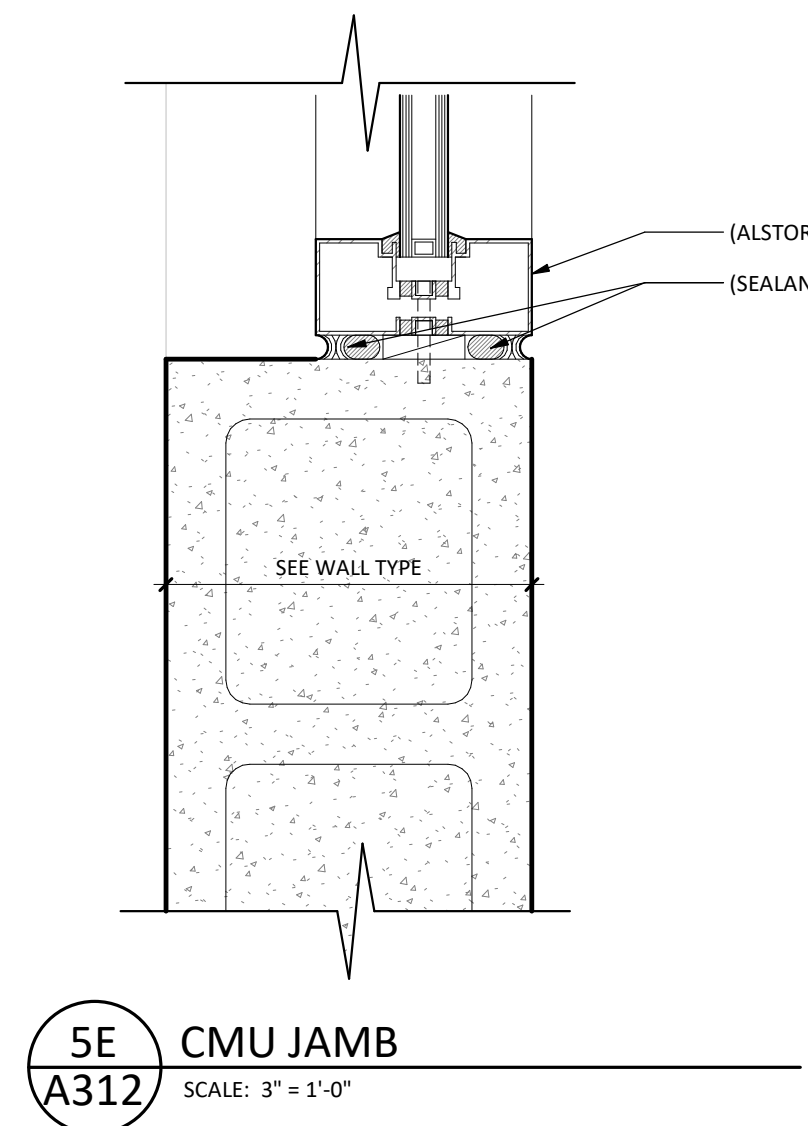
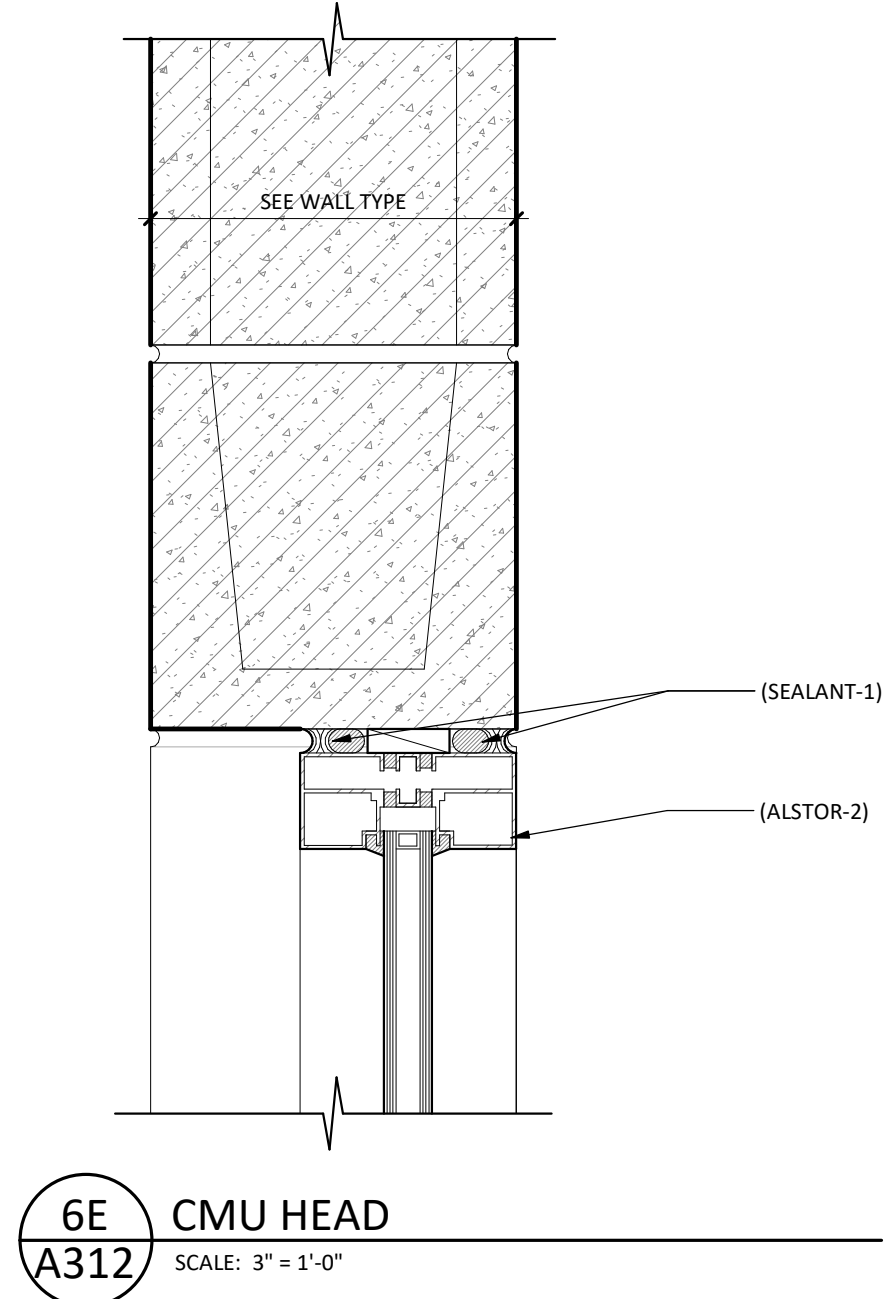
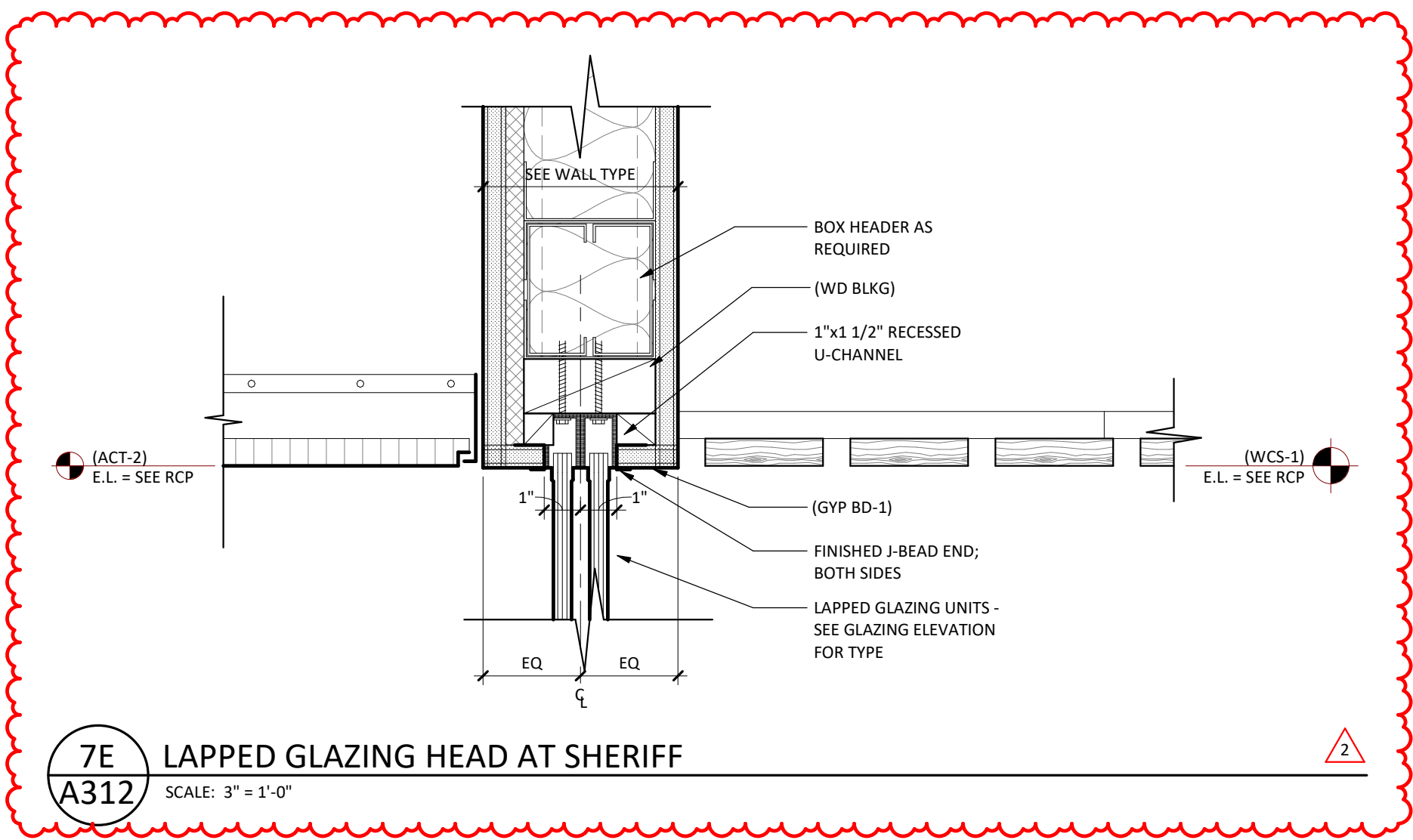


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DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

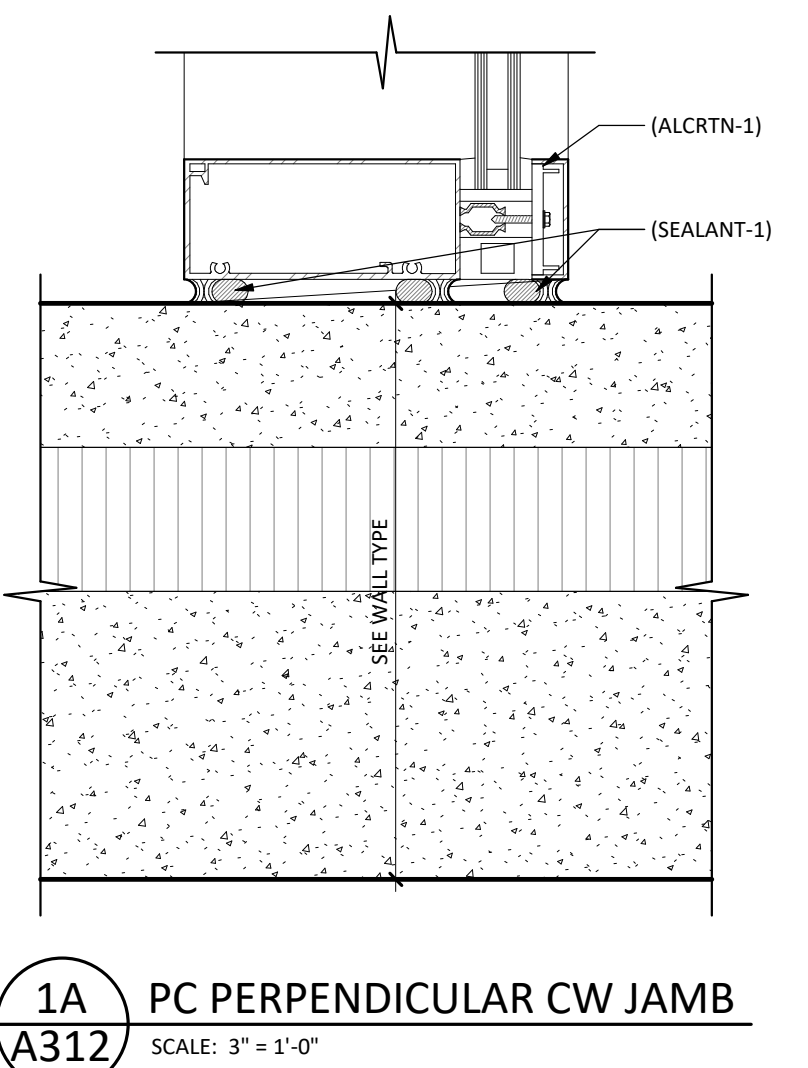
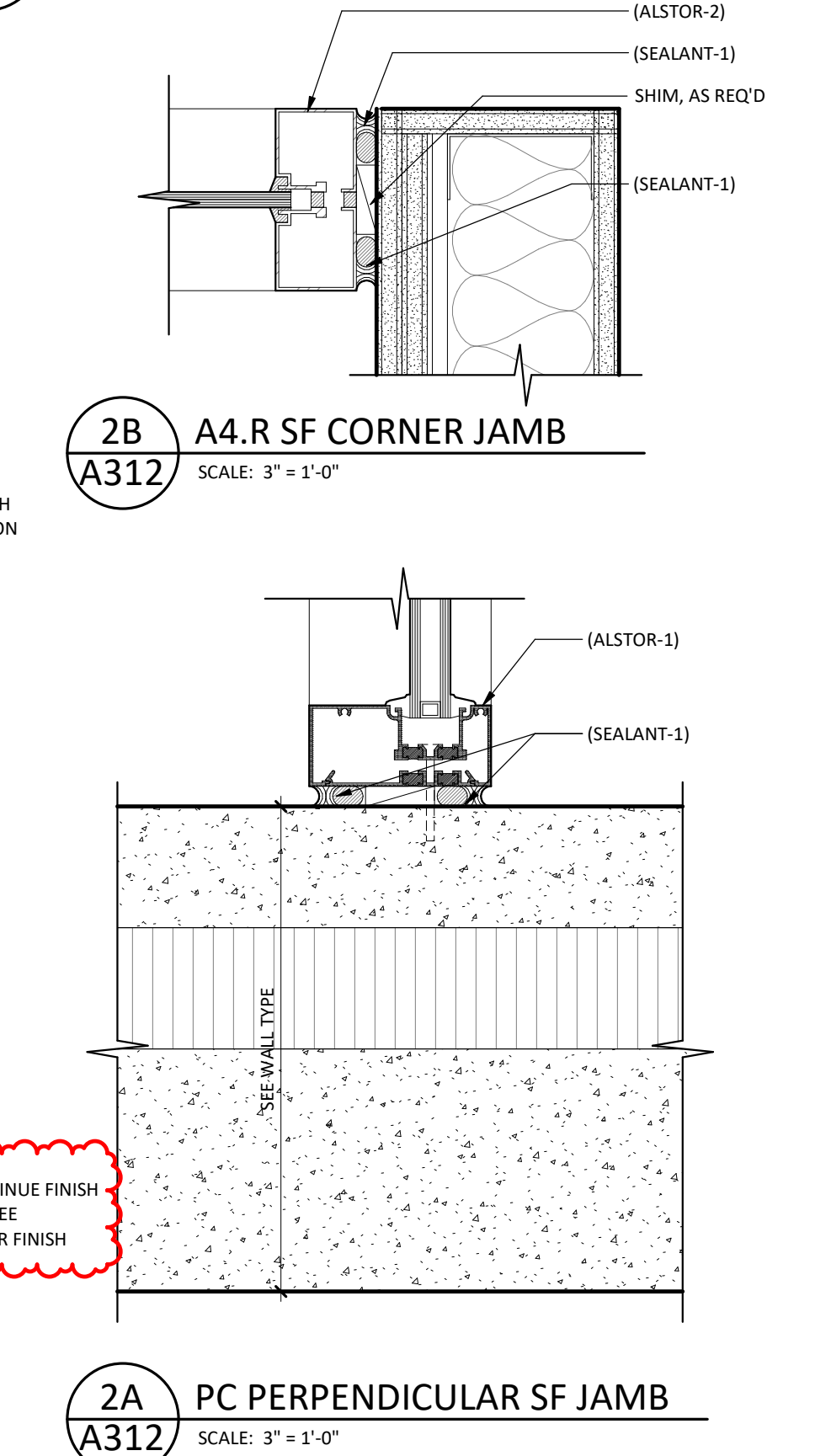
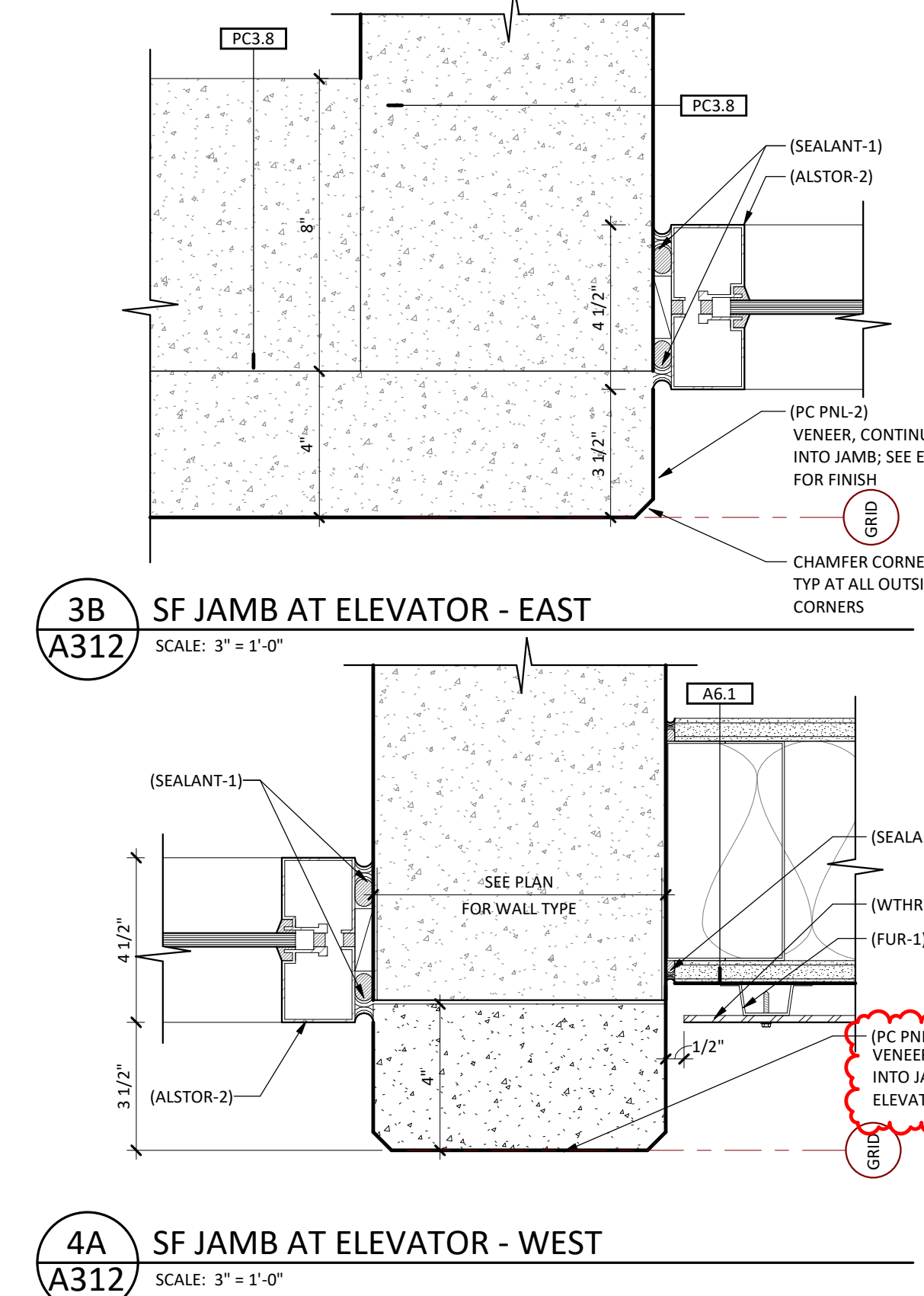
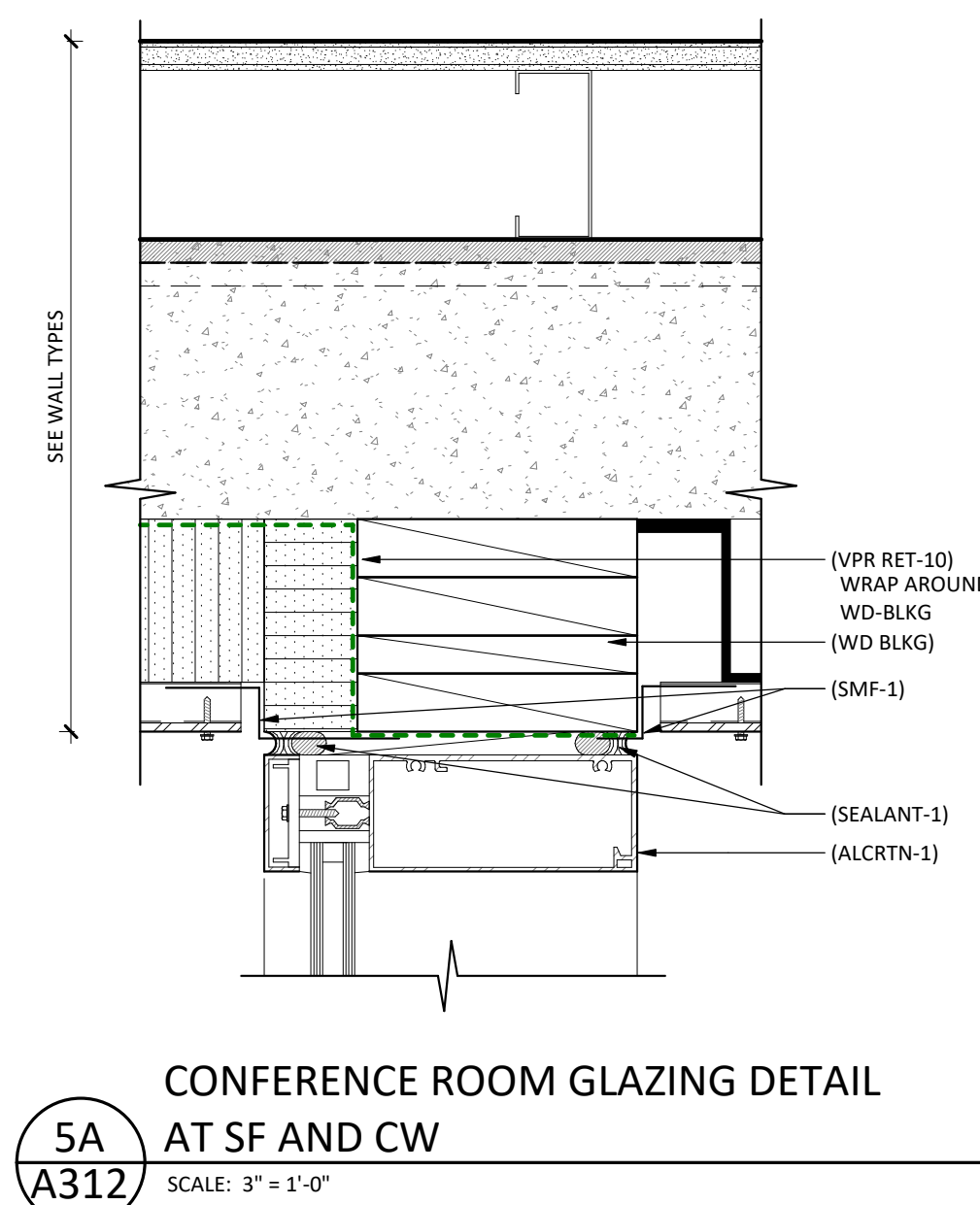
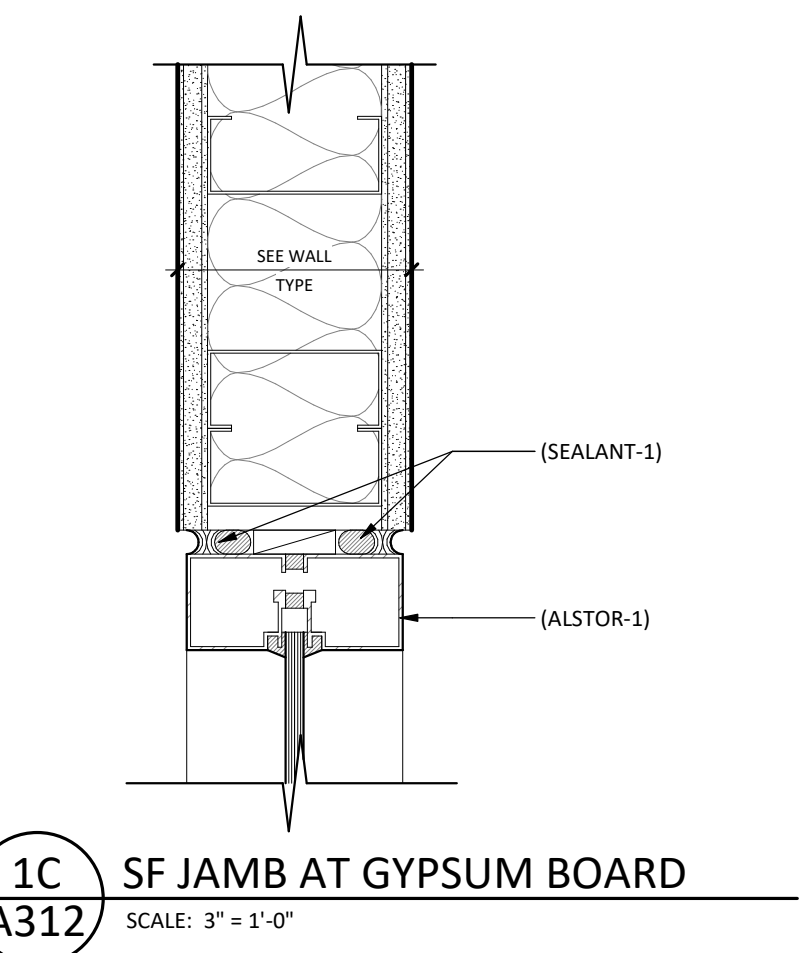
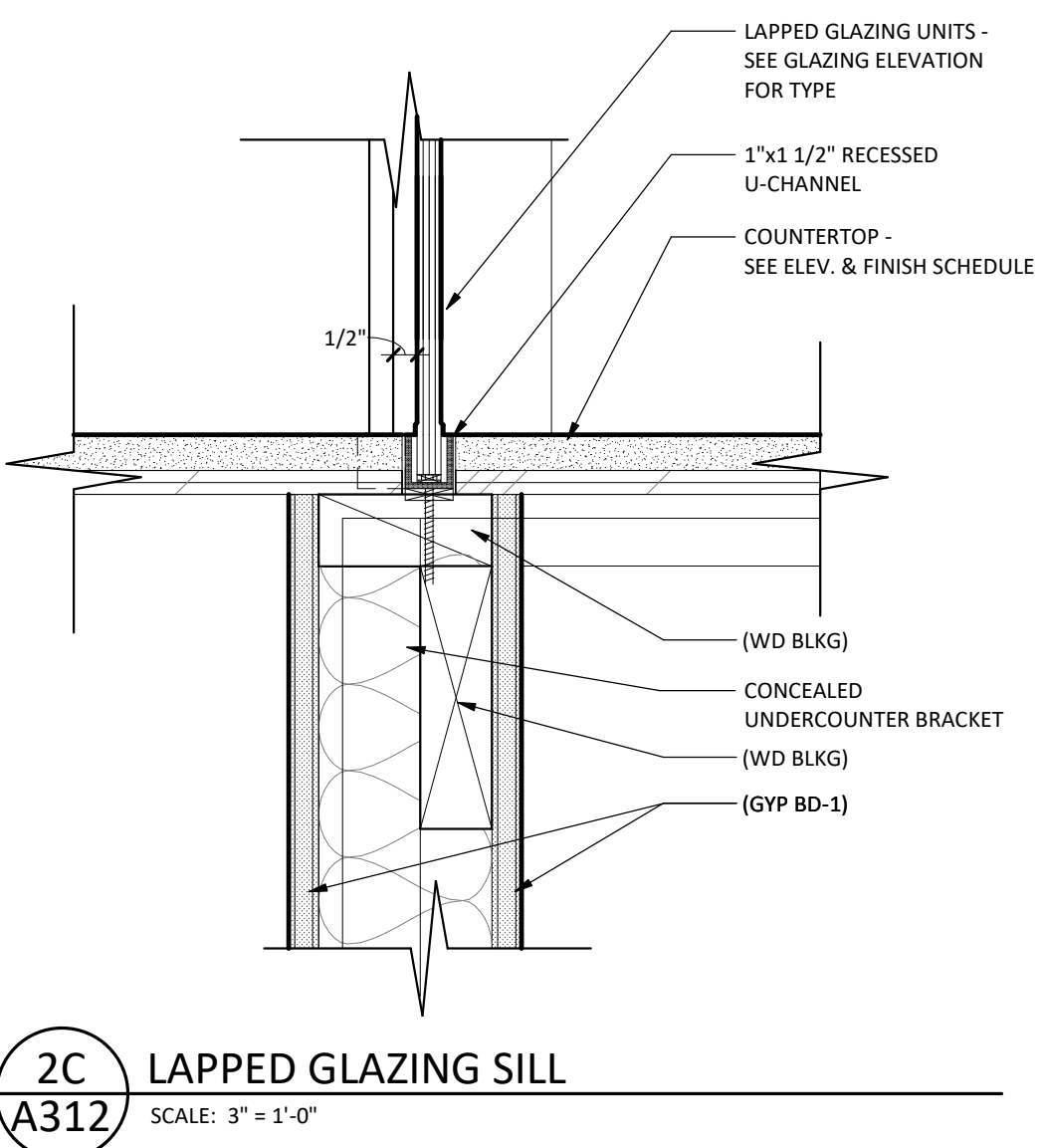
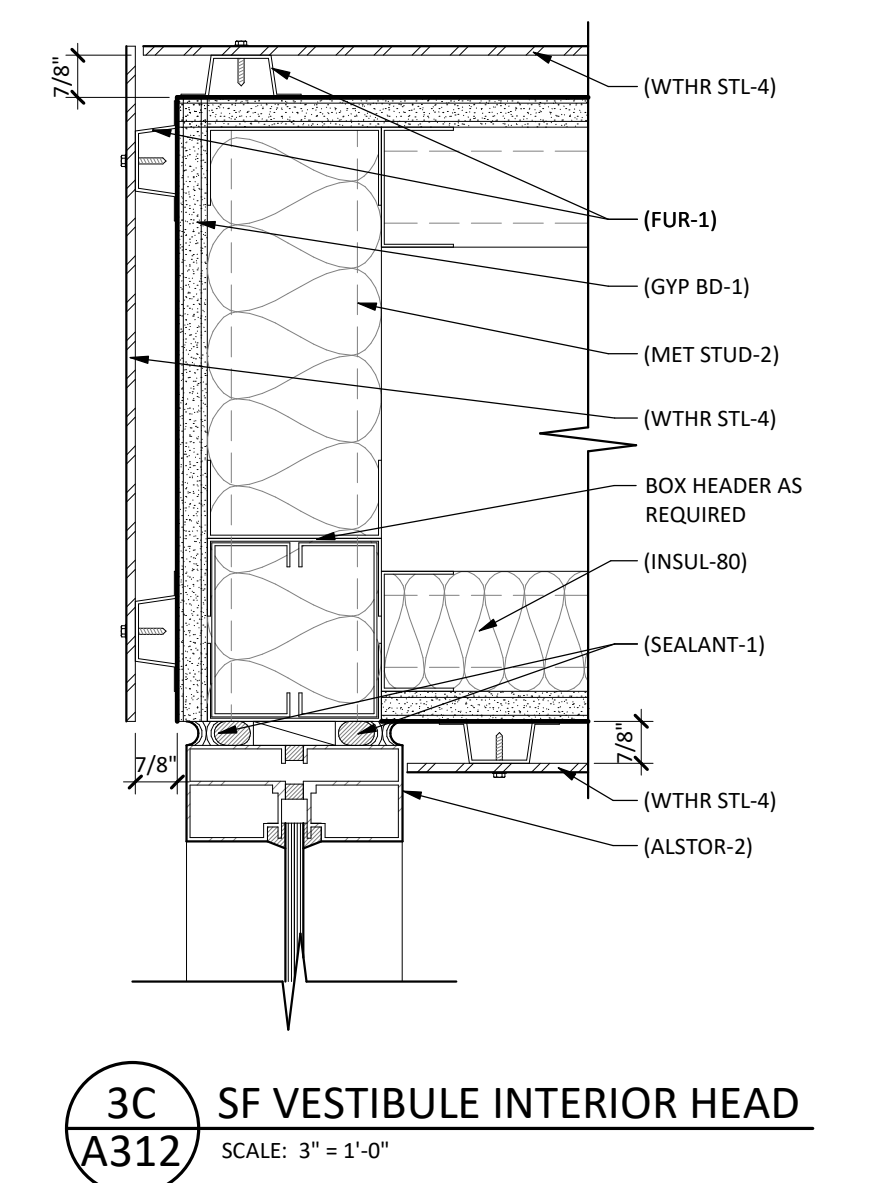
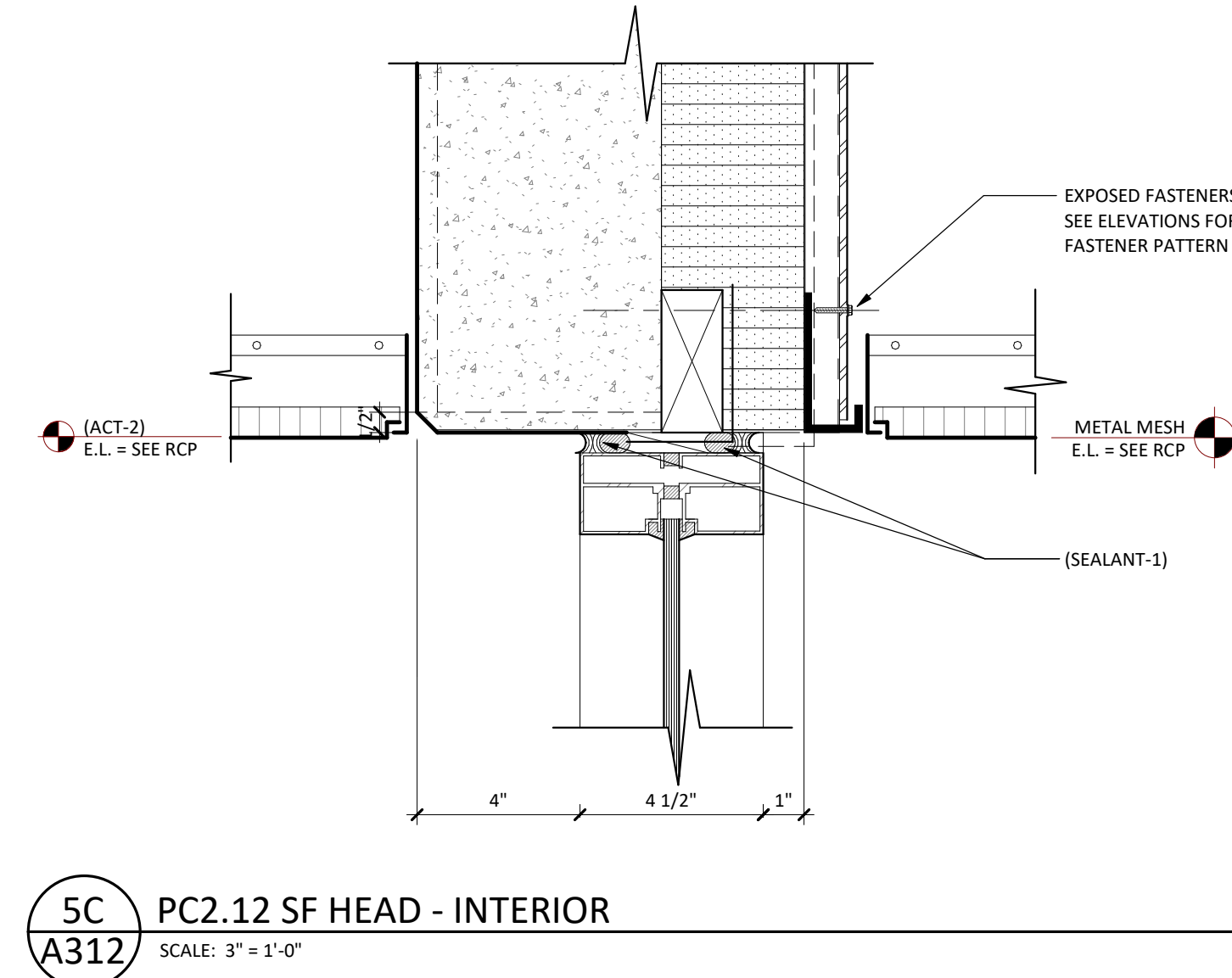
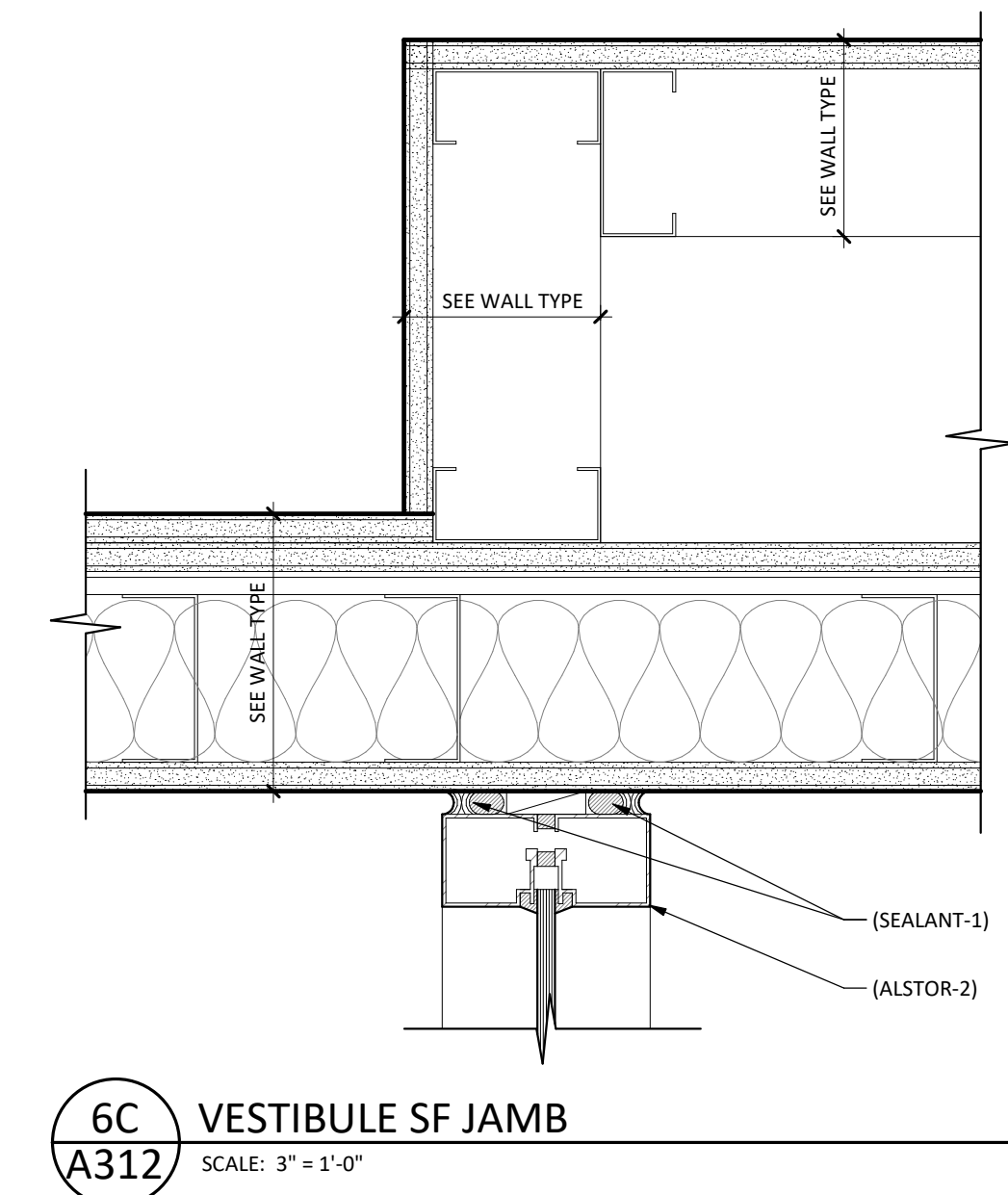
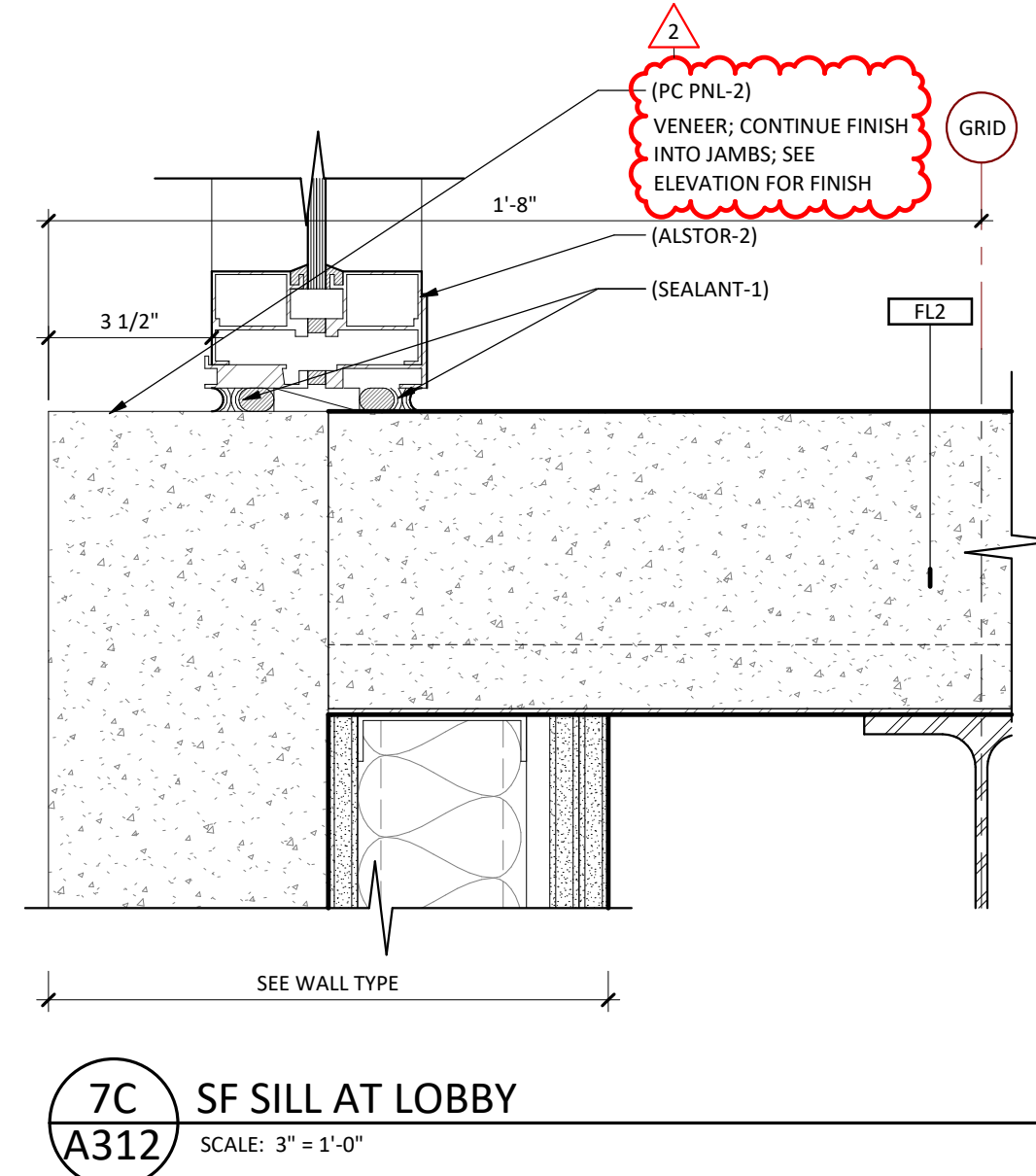
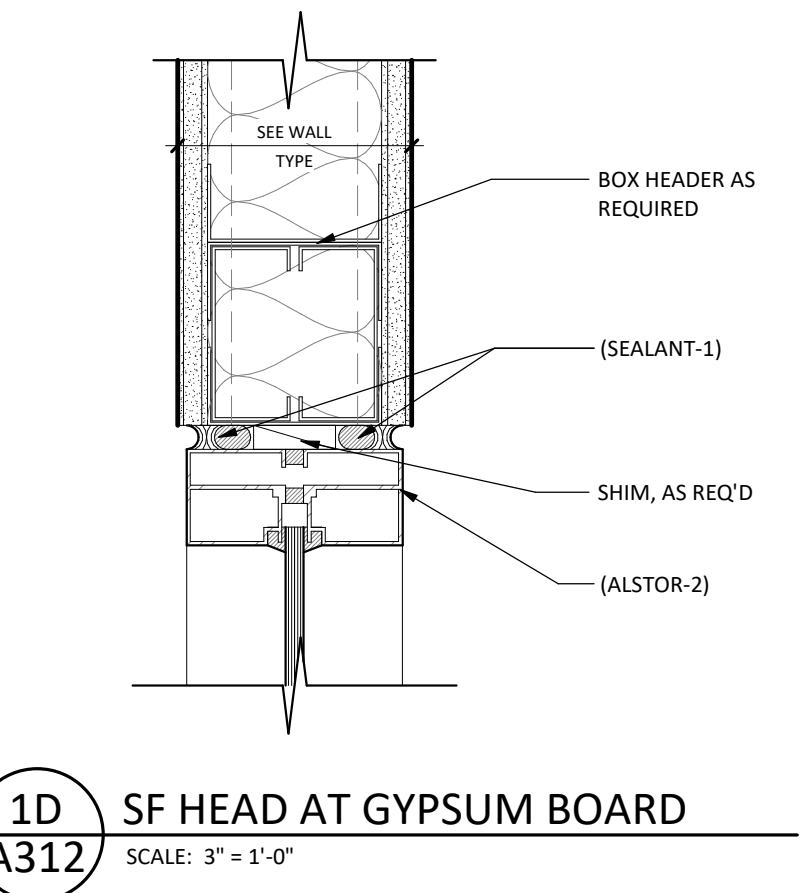
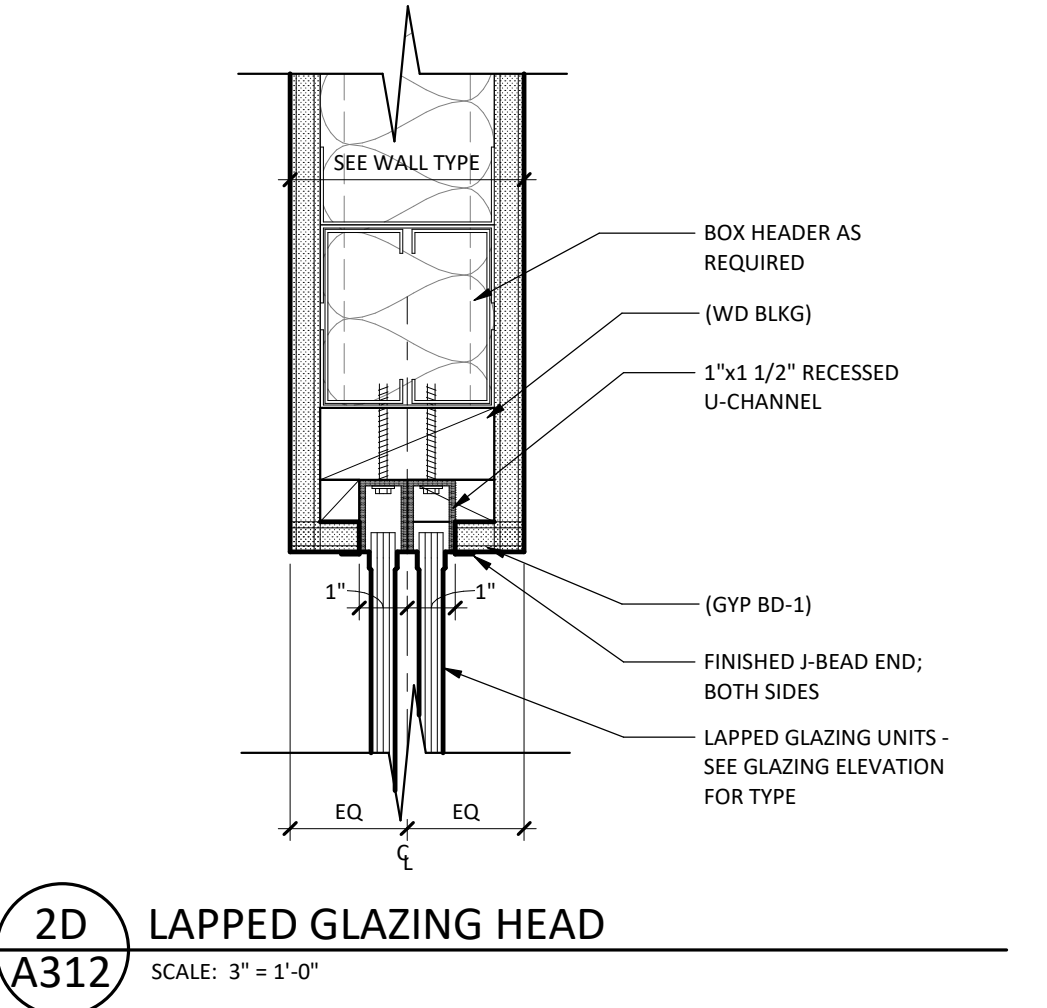
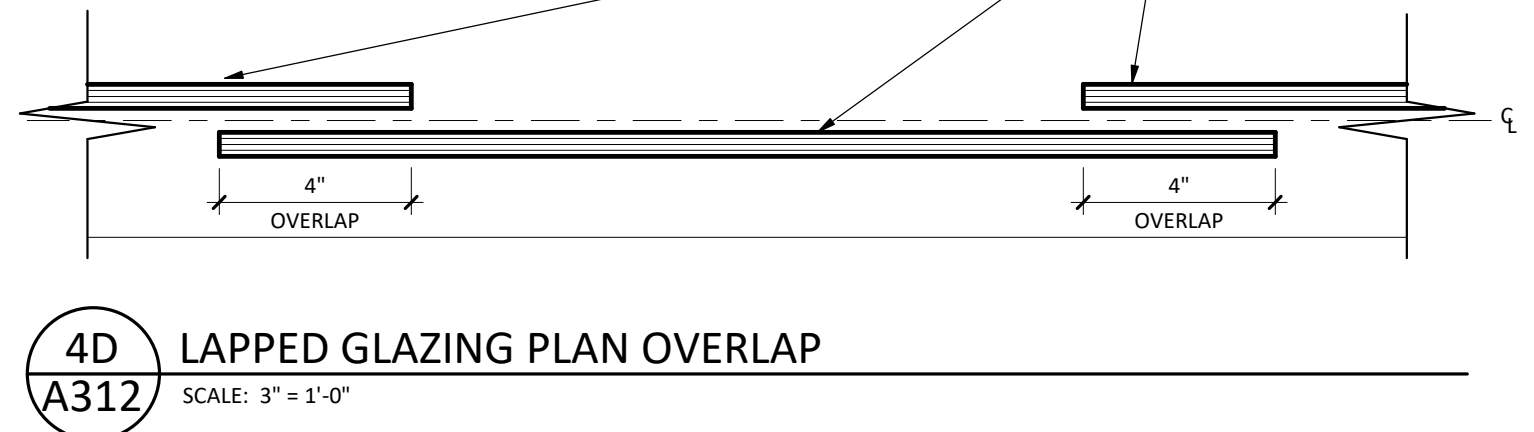
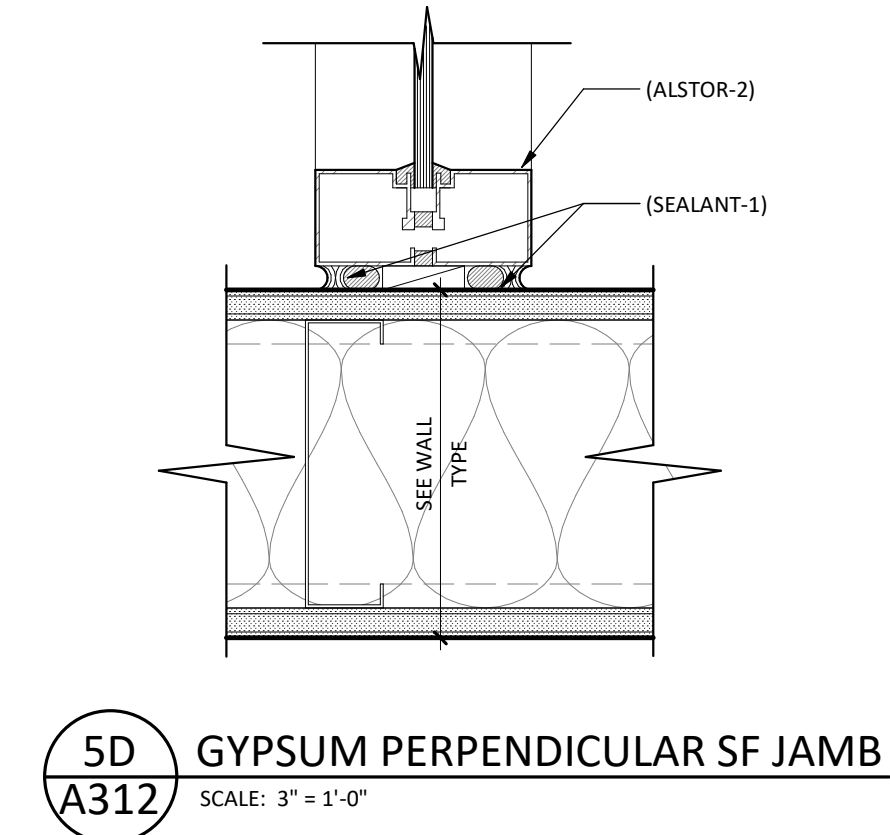
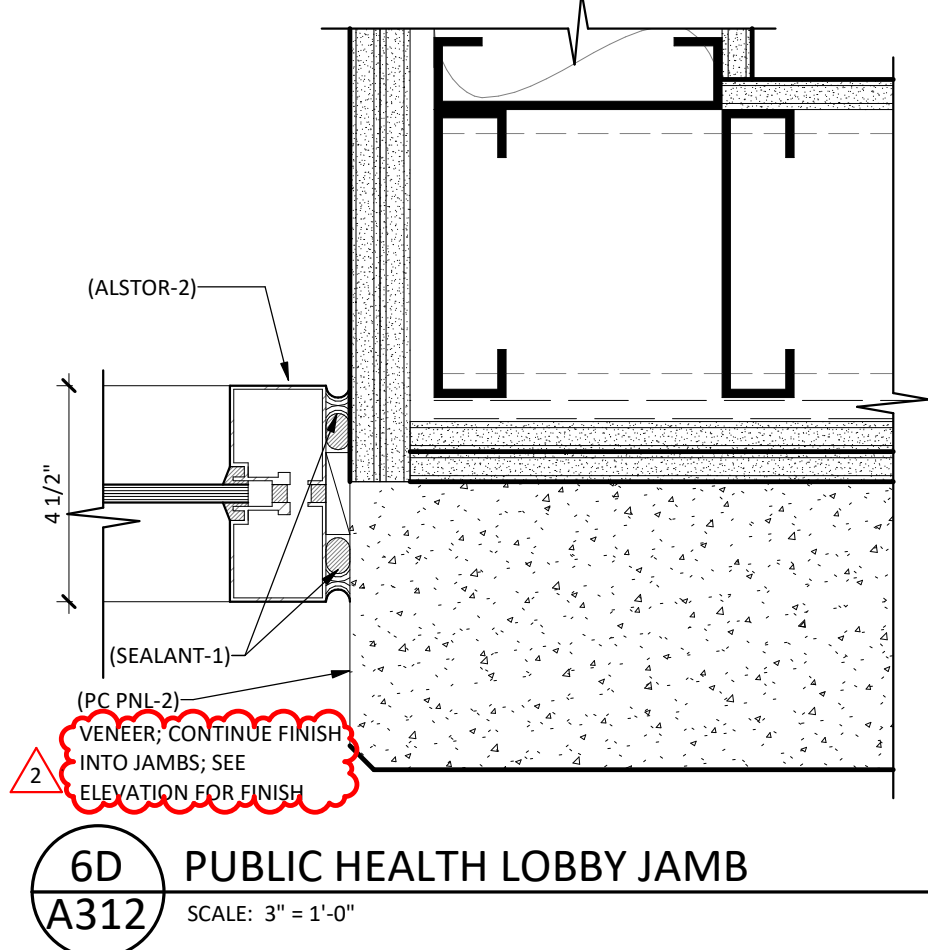
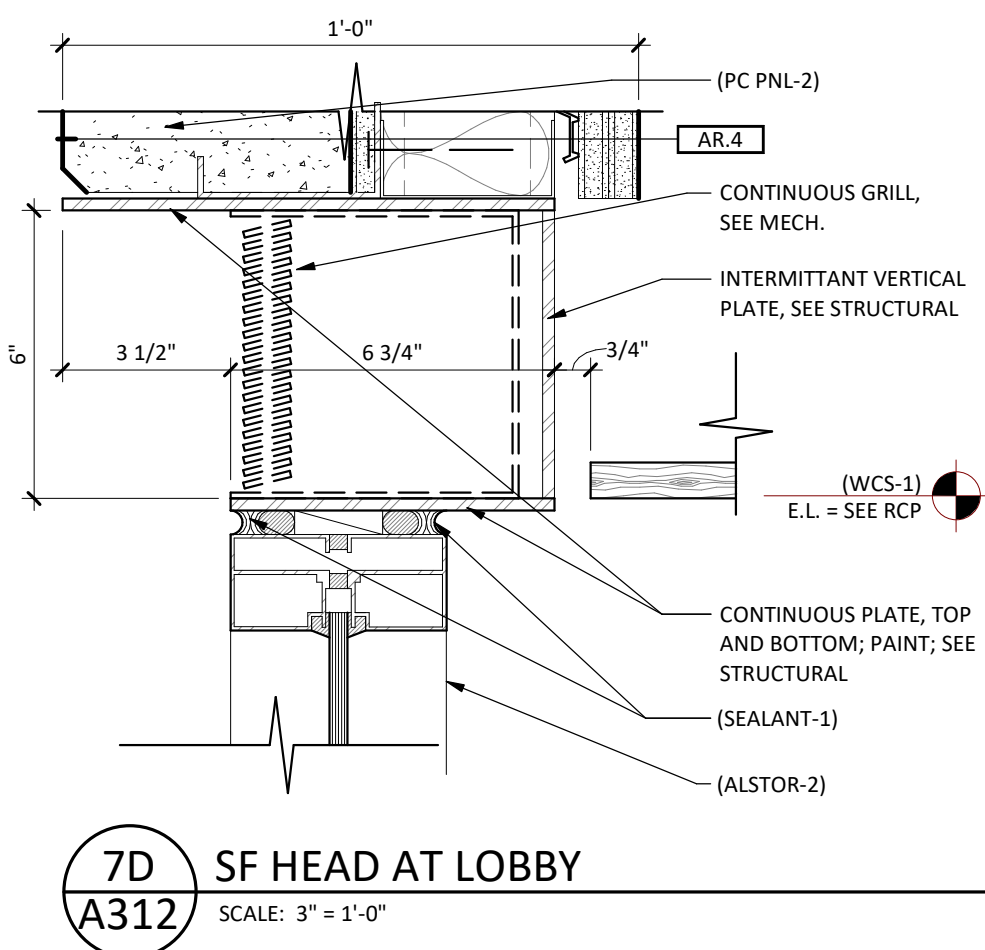
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CONSTRUCTION DOCUMENTS
PROJECT
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SHEET
A310
GLAZING ELEVATIONS

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SHEET SPEC ID LIST	
SPEC ID	SPEC SECTION & DESCRIPTION
ALCRTN-1	08 4313 - ALUMINUM CURTAIN WALL
ALSTOR-1	08 4313 - ALUMINUM STORE FRONT
ALSTOR-2	08 4313 - ALUMINUM STORE FRONT
FUR-1	09 2116 - 7/8" DEEP HAT CHANNEL FURRING
GYP BD-1	09 2116 - 5/8" TYPE X GYPSUM BOARD
INSUL-80	09 2116 - ACOUSTIC INSULATION, MINERAL FIBER
MET STUD-2	09 2116 - NON-LOADBEARING METAL STUDS, 20 GA.
PC PNL-2	10 4500 - ARCHITECTURAL PRECAST WALL PANELS WITHOUT INSULATION
SEALANT-1	07 9200 - JOINT SEALANT OR CAULKING WITH OR WITHOUT BACKER ROD
SMF-1	07 6200 - PREFINISHED ALUMINUM
SSM-1	12 3600 - SOLID SURFACE COUNTERTOP
VPR RET-10	07 2600 - SELF-ADHERED OR FLUID APPLIED VAPOR RETARDER
WD BLKG	06 1000 - WOOD BLOCKING
WTHR STL-1	07 4213 - WEATHERING STEEL WALL PANEL
WTHR STL-4	07 4213 - INTERIOR WEATHERING STEEL PANEL

MEMBRANE LINETYPE LEGEND	
UNDERSLAB VAPOR RETARDER (VPR RET-4)	---
VAPOR BARRIER - WALL (VPR RET-10)	---
VAPOR BARRIER - ROOF (VPR RET-5)	---
WATERPROOFING (WTH PRF-2)	---



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REGISTERED ARCHITECT
NORTH DAKOTA
(25671)
Katey Cider
2021/2025
STATE OF NORTH DAKOTA

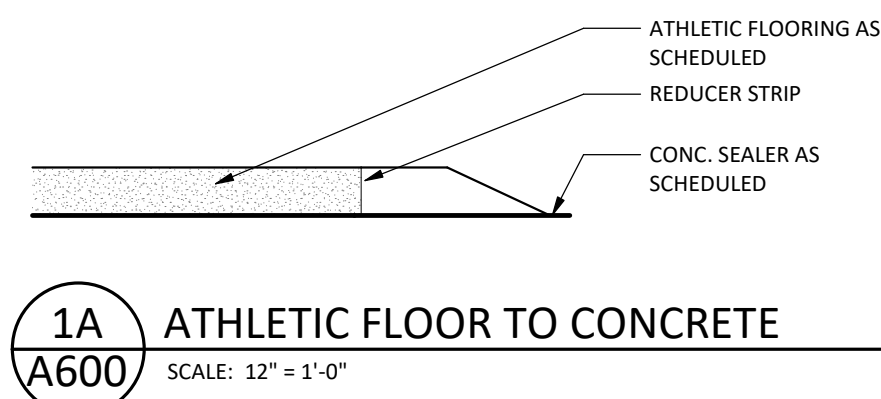
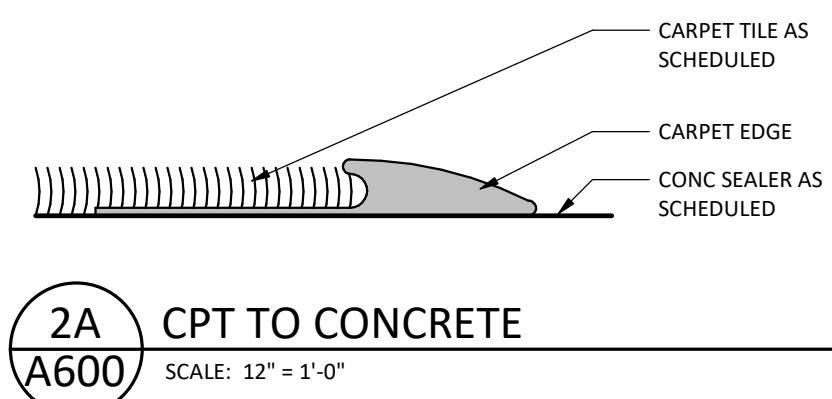
REVISION SCHEDULE

NO.	DESCRIPTION	DATE
1	ADDENDUM #2	11/07/25

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

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ADDENDUM

PE 25028 Dunn County Public Safety Center

RE: addendum

Issued: November 7, 2025

ADDENDUM #: E2

NOTICE TO CONTRACTORS

This Addendum is prepared to supplement information presented in the Drawings and Project Manual dated October 21, 2025 for the above referenced project. All additions, changes, omissions and conditions listed herein shall become an integral part of the Contract Documents.

PROCUREMENT AND CONTRACTING REQUIREMENTS

SPECIFICATIONS

1. SECTION 27 4116 – Meeting Room Multimedia System
 - o Part 2.2 shall be provided under Section 274116 contractor
 - o Approved for bidding equivalent system by Biamp UCC-Lenovo TSC2-IP-MTR
2. SECTION 27 4117 – Training Room Media System
 - o Added in its entirety.
3. SECTION 27 5123 – Intercommunications System
 - o Added in its entirety.

APPROVED EQUALS

The following products have been approved for use on this project. All approved products must still meet all product specifications as listed in the product specification section.

DRAWINGS

1. E100 – SITE PLAN
 - o Drawing 1/E100: Added Type DD1 fixtures, and added keynotes.
2. E201 – LEVEL 1 LIGHTING PLAN
 - o Drawing 1/E201: Added additional Type U1 fixtures, lighting control locations, and added keynotes.
3. E203 – LIGHTING DETAIL
 - o Detail 3/E203: Updated for flagpole light fixture use.
4. E300 – BASEMENT POWER PLAN
 - o Drawing 1/E300: Updated equipment DP-1 and DP-2 to include disconnects and match mechanical. Added HUH-1, 2, 3, and SP-4.
5. E301 – LEVEL 1 POWER PLAN
 - o Drawing 1/E301: Updated Room A114 water control to be by solenoid rather than electric flush valve and updated keynote.
6. E302 – LEVEL 2 POWER PLAN
 - o Drawing 1/E302: Revised P-8 to be P-6 to match mechanical.

7. E303 – POWER RISER AND PANEL SCHEDULES
 - Panel Schedules: Updated Panel L1 for the added sump pump (SP-4)
8. E304 – POWER DETAILS
 - Motor & Equipment Schedule: Updated for the added sump pump and unit heater. Revised equipment names to match mechanical.
9. E401 – LEVEL 1 SYSTEMS PLAN
 - Drawing 1/E401: Updated various keynotes regarding the radio equipment and system. Added speaker system in the shop and sheriff department hallway.
10. E402 – LEVEL 2 SYSTEMS PLAN
 - Drawing 1/E402: Updated keynotes regarding the radio equipment and system. Added antenna location. Antennas must be 50 ft apart and have continuous conduit from service mast to base station(s).
 - Drawing 1/E402: Updated device heights, added panic button rough-in, and added doorbell system.
 - Drawing 1/E402: Updated various items for the training room multimedia system.

END OF ADDENDUM

SECTION 27 4117 – A/V SYSTEM

PART 1 – GENERAL

1.1 DESCRIPTION

- A. Work Included
 - 1. Provide a complete and operational Audio/Video System to support voice and audio program sources for the Training Space. The system shall also support video distribution in the Training Space. The system shall be controlled by a digital signal processor and a scaling video processor operated by touchscreen controllers with custom graphics.
- B. Work furnished and installed by others
 - 1. The Owner will provide PoE network equipment and internet service.
- C. Description of System
 - 1. The system shall provide A/V presentation through the provided TV via wired HDMI and wireless program sources.
 - 2. The system shall support virtual meetings via the networked PC (NUC).
 - 3. The audio system shall provide voice/music reinforcement of programming from wireless microphones, Bluetooth, video source and TV locations as shown.
 - 4. The video distribution system shall include a 4K video display system with multiple HDMI input locations.

1.2 SUBMITTALS

- A. Shop Drawings
 - 1. Submit information in accordance with Section 260500.
 - 2. Indicate mounting details, cabinet dimensions, connection diagrams, and description of system functions.
- B. Record Manuals
 - 1. Submit information in accordance with Section 260500.
 - 2. Include manufacturer's data for adjustment, operation and maintenance of equipment and name of service organization.

PART 2 – PRODUCTS

2.1 MANUFACTURER/SUPPLIER

- A. The system specified is based on equipment as manufactured by Biamp, Shure, and other manufacturers as listed.
- B. All references to model numbers and other pertinent information is intended to establish the standards of operational concepts, performance, quality and appearance which must be met.
- C. Acceptable suppliers:

1. AVI, 1930 East Century Avenue, Bismarck, North Dakota, (701) 223-3800.
2. The Computer Store, 1100 S Broadway, Minot, North Dakota, (701) 838-3967.
3. TriCorne Audio Inc, 4023 State Street, Bismarck, North Dakota, (701) 258-6912.

2.2 TRAINING ROOM EQUIPMENT (AVCP)

A. Video Processor

1. Digital multi-channel audio-follow-video matrix switch with independent stereo matrix for audio breakaway
2. HDMI and DTP type with 4K scaling.
3. 10 input x 8 output.
 - a. Provide additional DTP to HDMI converters if required.
4. Manufacturer: Extron #DTP3 Crosspoint 884 series.

B. Control Processor

1. Touchlink control system processor
2. Ethernet based.
3. Link License for remote touchpad control.
4. Manufacturer: Extron Model #IPCP Pro.

C. Audio Processor

1. Digital Signal Processor.
2. Frequency response 20Hz-20kHz.
3. Configuration/Control via laptop RS 232 and Ethernet.
4. 12 x 8 In/Out configuration.
5. Manufacturer: Biamp Tesira Forte Series.

D. Amplifier

1. Two independent channel type.
2. Frequency response: 20Hz to 20kHz.
3. Standard 19" rack-mount type.
4. Power output as required operating on recommend voltage system.
5. Manufacturer: Voltera #D Series

E. Presentation Gateway (One thus)

1. Allows screen sharing/mirroring from mobile and portable devices via the facility wireless network.
2. 4K output.
3. Manufacturer: Extron #Sharelink Pro 1100
 - a. Integral ShareLink allowable in DTP3 Crosspoint as applicable.

F. PoE Switch

1. Provide PoE switch for control system power and networking.
2. Extend cabling between all control equipment as necessary.
3. Netgear AV Line #M4250

- a. Minimum size is the larger of the following: 16 ports, or 1.5 times the quantity required by device count rounded down to nearest available size.
- G. Enclosure
 - 1. Floor mount 27" rack.
 - 2. Sized as required for equipment.
 - 3. Include cooling fan module.
 - 4. Include Surge Suppression type power strips as required.
 - 5. Manufacturer: Lowell LER Series or equivalent.
- H. Controller (TC) – Two thus
 - 1. Touchscreen type with mounting hardware included.
 - 2. Ethernet based.
 - 3. Manufacturer: Extron #TLP Pro 1225MG.
- I. Speakers – Type A
 - 1. 2-way 10" coaxial surface mount speaker.
 - 2. 48Hz – 20kHz frequency response.
 - 3. 100 x 100 distribution.
 - 4. 120W power at 70V with taped transformer.
 - 5. U-bracket mounting hardware/accessories as required.
 - 6. Manufacturer: Desono #EX-S10 Series.
- J. Bluetooth Interface (B)
 - 1. Local Interface
 - a. Single Gang Decora device with pairing button and status indication.
 - b. Remote power from associated twisted pair receiver.
 - c. RJ45 type connection.
 - d. Manufacturer: RDL D Series #BT1A
 - 2. Receiver
 - a. Format A twisted pair receiver.
 - b. Balanced and Unbalanced Output.
 - c. Installed in the equipment cabinet.
 - d. Manufacturer: RDL #TX-TPR1A.
- K. TV Audio Input Jack (A)
 - 1. Single Gang Decora device with three contact female XLR microphone jack.
 - 2. Extron #DAC102 two channel digital to analog audio converter.
 - a. Include AC to DC plug in type power supply.
 - 3. D/A converter to mic jack jumper cable.
 - 4. TV to D/A converter jumper cable. Fiber or RCA as required by TV.
- L. Multimedia Input (XI)

1. single-gang decora device that converts HDMI to DTP.
 2. 330 Foot cable distance
 3. Manufacturer: Extron #DTP3 T 101 D.
- M. Multimedia Output (XO)
1. Single-gang decora device that converts DTP to HDMI.
 2. 330 Foot cable distance.
 3. Manufacturer: Extron #DTP R HWP 4K 331D
- N. Projectors and Screens
1. Projector (two thus)
 - a. Large venue WUXGA with 1920x1200 resolution.
 - b. 16:10 Aspect Ratio.
 - c. Minimum brightness shall be 8,000 lumens
 - d. Laser light source with 20,000 hour operation.
 - e. Manufacturer: Vivitek #DU7099Z-BK.
 - 1) Include correct throw lens for particular application.
 - 2) Include ceiling mounting equipment.
 - f. Projector shall be controlled via RS232 from the DTP/touchscreens
 2. Screen (two thus)
 - a. Non-tensioned, surface mount type with black finish.
 - b. Include mounting hardware as required to support screen from ceiling structure.
 - c. High Contrast Matte White front projection screen.
 - d. 87" x 139", 16:10 Aspect Ratio.
 - e. Dry Contact Operation by video keypad controller.
 - f. Include a finished covering for this exposed installation.
 - g. The screen is to be wall mounted at 11' above finished floor. Include extra drop as required to lower the screen to the optimal viewing height.
 - h. Manufacturer: Da-Lite #34580
- O. Smart TV (six thus)
1. 75" Class LED TV (minimum).
 2. 4K UHD
 3. Smart Capable with Integral LAN port
 4. HDMI inputs as required.
 5. Swing-out type wall mount bracket as required.
 6. Manufacturers: LG, Samsung, Sharp, Sony, Toshiba, or Vizio.
- P. Wired Microphones
1. Provide ambient microphones for Microsoft Teams Meeting use as follows:
 - a. (2) Shure #MXA920-R hanging microphones.
 - b. Include Shure #ANIUSB-MATRIX for Dante to USB audio.
- Q. Wireless Microphones
1. UHF Digital type with selectable frequencies and up to 32 channels.

2. Wireless microphone system shall include:
 - a. (1) Shure SLXD4D series dual wireless receiver.
 - b. (1) Shure SLXD1 body pack transmitter with lapel mic.
 - c. (1) Shure SLXD2/SM58 handheld transmitter.
 - d. (2) Shure UA8 series remote antennas with brackets.
 - e. (2) Shure UA825 series remote antenna coax.
- R. Peripheral I/O
 1. General
 - a. Provide custom plates for locations as indicated on the drawings. Plates shall be Rapco Black anodized with engraved labeling or approved equal.
 - b. Microphone Input Jack
 - 1) Three-contact female XLR microphone jack.
 - 2) Quantities as listed and shown
- S. Cable
 1. Speaker cable: AWG as required.
 2. Multimedia Input/Output and Controller cable: Extron #XTP DTP 24.
 3. Provide all HDMI, USB, CAT6, and AUDIO patch cords as required for complete system.
 4. West Penn 25291b for mic/line cable.

2.3 MISC.

- A. Provide wall mounting brackets for all equipment as required for complete system installation. Ensure TV bracket provides proper clearance for the other equipment.
- B. Provide all HDMI, USB, CAT6, and AUDIO patch cords as required for complete system.

PART 3 – EXECUTION

3.1 STORAGE

- A. Store public address components in a cool, dry space prior to installation.

3.2 INSTALLATION

- A. General
 1. Verify exact mounting height/position of TV with Owner prior to installation.
 2. Install NUC and Presentation Gateway concealed behind the TV.
 - a. Carefully support all cables to ensure they are properly concealed behind the TV.
 - b. Route Tabletop HDMI through the Presentation Gateway (not connected directly to a TV input).
 3. Verify exact mounting location of the Tabletop Interface with Owner prior to installation in meeting room table (provided by others).
 4. Obtain required IP addresses for TV, NUC, and Gateway from Owner and perform complete setup of each device.

3.3 FINAL ADJUSTMENT AND EQUALIZATION

- A. When the system is completely installed and operating properly (with all spurious responses such as hum, oscillation, etc. eliminated), the system shall be adjusted for even sound pressure level coverage, and then be equalized using 1/3 octave technique.
- B. The process will also provide location and reduction of acoustic feedback and ring points utilizing 1/3 octave filter panel. This portion of the equalization process will be accomplished with equipment specifically designed for this purpose.
- C. The system energy time curve and an energy frequency curve shall be measured using Smaart or SysTune dual transfer function.
- D. Record Manuals shall include complete operational instructions, individual device circuit diagrams and a one-line diagram of the system.

3.4 TESTS

- A. Prior to final inspection, verify that the multimedia system is in proper working condition. Furnish letter of verification to Engineer indicating that the system has been tested by a manufacturer's representative. List date of test and name of manufacturer's representative. Division 26 contractor responsible for test and scheduling.

3.5 INSTRUCTIONS

- A. Manufacturer's representative shall instruct Owner in proper operation, maintenance and testing of the complete system. Indicate on letter of verification, name of Owner's representative receiving instructions.
- B. Record instructions and include with Record Manuals in accordance with Section 260500.

3.6 CLEANING

- A. **Clean** and **vacuum interior** to remove all wire and insulation scraps, dust and dirt.
- B. Clean all exposed surfaces immediately prior to final inspection.

END OF SECTION

SECTION 27 5123 - INTERCOMMUNICATIONS SYSTEM

PART 1 – GENERAL

1.1 DESCRIPTION

A. Work Included

1. Provide a complete and operational Public Address System to page radio notifications into shop areas and hallway from Owner furnished system.

B. Description of System

1. The system shall provide for one-way communication between areas indicated.

1.2 SUBMITTALS

A. Shop Drawings

1. Submit information in accordance with Section 260500.
2. Indicate mounting details, cabinet dimensions, connection diagrams, and description of system functions.

B. Record Manuals

1. Submit information in accordance with Section 260500.
2. Include manufacturer's data for adjustment, operation and maintenance of equipment and name of service organization.
3. Provide multiple copies, one to remain in equipment cabinet, other copies for Record Manuals.

PART 2 – PRODUCTS

2.1 MANUFACTURER/SUPPLIER

A. The system specified is based on equipment as manufactured by Quam and JBL.

B. Acceptable Suppliers:

1. AVI Systems, 1930 East Century Avenue, Bismarck, ND (701) 258-6360.
2. Tricorne Audio, 4023 State Street, Bismarck, ND (701) 258-6912.

2.2 POWER AMPLIFIER

A. 2-wire input capability from owner provided radio base station.

B. Manufacturer: QSC #CX-Q 2K4 Series or equivalent.

C. Located in AVCP in Room A212.

2.3 OFFICE SPEAKERS (TYPE B)

A. Surface mounted with drop cable to avoid other equipment.

- B. Single piece construction.
- C. Frequency range: 50-22,000 HZ.
- D. 70V with tapped transformer controlled by rotary switch.
- E. Black finish.
- F. Manufacturer: Bogen Model #MPS2B or equivalent.

2.4 SHOP SPEAKERS (TYPE C)

- A. Surface mount horn loudspeaker.
- B. Frequency range: 450 Hz – 15 kHz.
- C. Normal wattage: 16 watts.
- D. Manufacturer: Quam #QH16T Series or equivalent.

2.5 VOLUME CONTROLS (TWO THUS)

- A. Auto-transformer type.
- B. Power rating of: 100 watts.
- C. Manufacturer: Lowell Model 100LV2 or equivalent.

2.6 AUDIO TRANSFORMER

- A. Converts an amplifier output to line level.
- B. Bridges 4 or 8 Ohm speaker line.
- C. Balanced or unbalanced output.
- D. Provide one for sheriff radio base station.
 - 1. Mount device near radio base station and extend mic/line cable from transformer to amplifier for audio input from radio system.
- E. Manufacturer: Radio Design Labs TX-8A series.

2.7 CABLE

- A. Horn speaker cable.
 - 1. #16 gauge THHN.

PART 3 – EXECUTION

3.1 STORAGE

- A. Store public address components in a cool, dry space prior to installation.

3.2 INSTALLATION

A. General

1. Install in accordance with code, product listing, and manufacturer's instructions.
 2. All wiring installed in minimum 1/2" raceway as shown on Drawings.
 3. Exercise particular care in the installation of control rough-in boxes to ensure plumb and level placement.
 4. Clearly mark all incoming cables and wires as to origin.
- B. Special care in cable installation shall be taken to ensure that grounds do not occur because of careless terminations or damage to the jacket of the shield. Take special care to ensure that random contact of shields of adjacent cables do not occur in consoles and at junction boxes.
 - C. Coordinate with Owner to interface with Owner provided phone system. Extend required circuitry between amplifier input and phone system.
 - D. Equipment may be installed in same rack housing Room 119 audio equipment. Provide cabling between this equipment and Owner's telephone system for interface for paging.

3.3 TESTS

- A. Prior to final inspection, verify that the public address system is in proper working condition. Furnish letter of verification to Engineer indicating that the system has been tested by a manufacturer's representative. List date of test and name of manufacturer's representative. Division 26 contractor responsible for test and scheduling.

3.4 INSTRUCTIONS

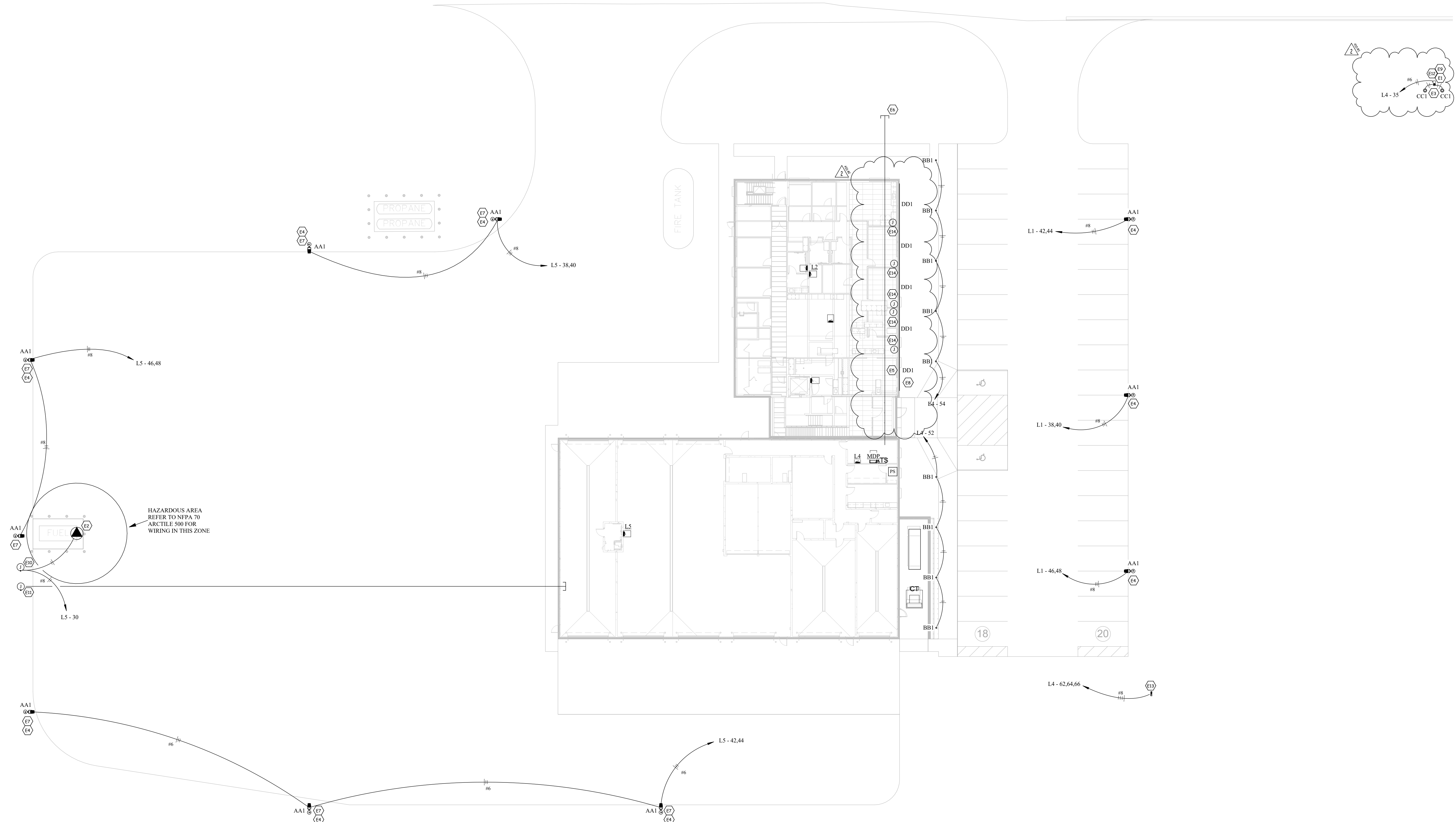
- A. Manufacturer's representative shall instruct Owner in proper operation, maintenance and testing of the complete system. Indicate on letter of verification, name of Owner's representative receiving instructions.
- B. Video tape instructions and include with Record Manuals in accordance with Section 260500.

3.5 CLEANING

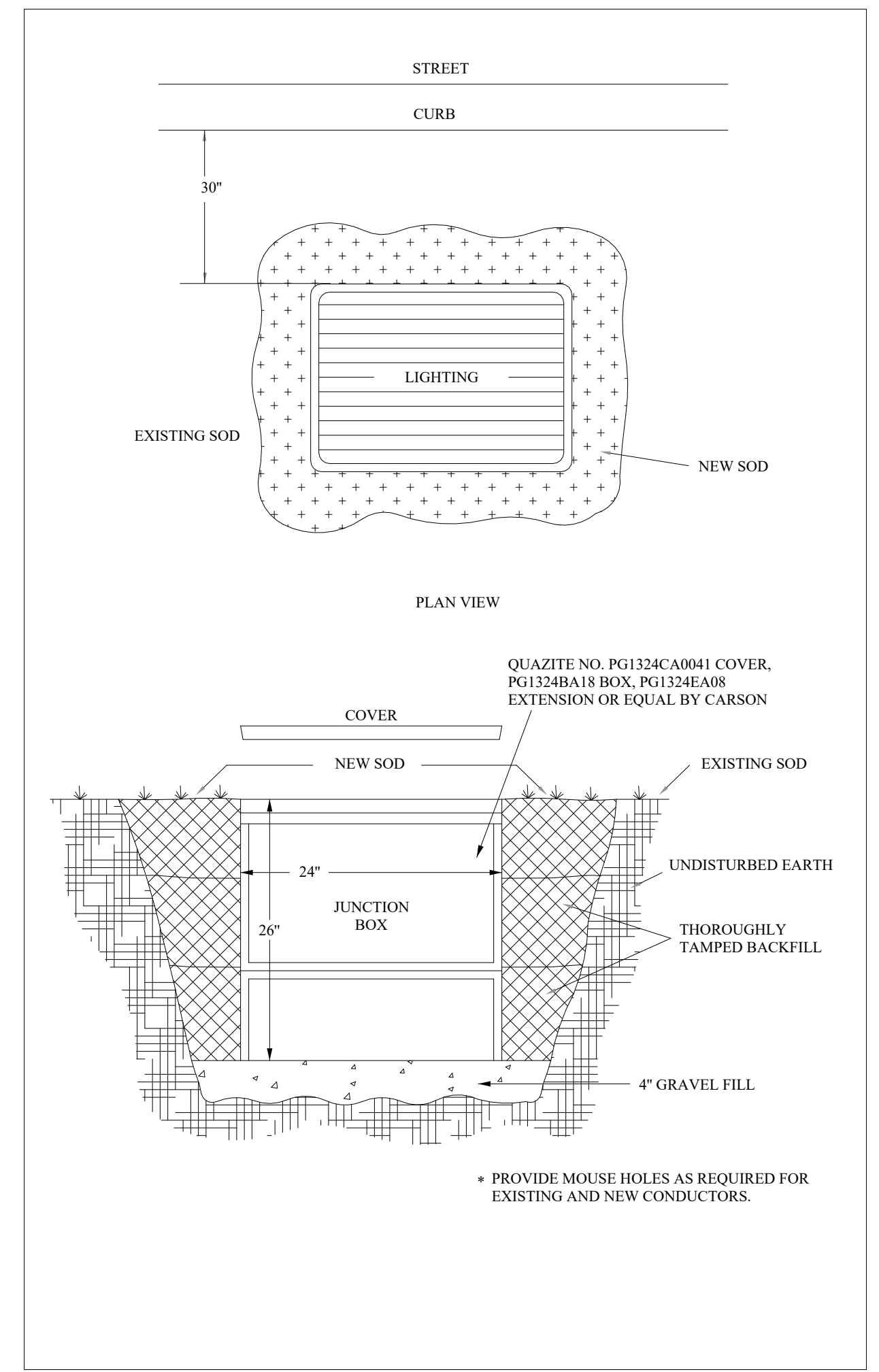
- A. **Clean** and **vacuum interior** to remove all wire and insulation scraps, dust and dirt.
- B. Clean all exposed surfaces immediately prior to final inspection.

END OF SECTION

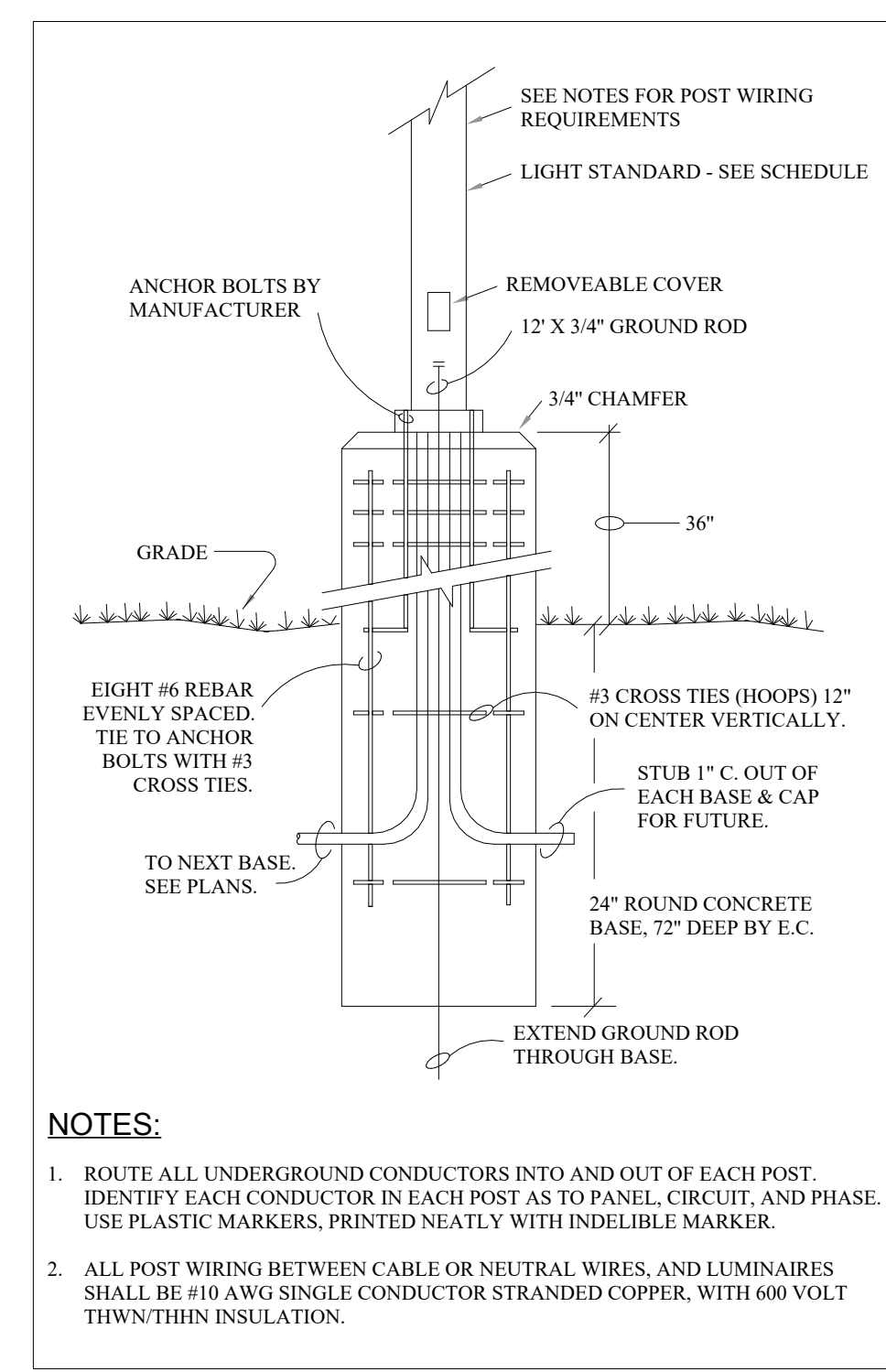
Keynote Legend	
E1	PROVIDE ELECTRICAL CONNECTION TO SIGN. PROVIDE AND INSTALL QUAZITE NO. P61324CA0041 COVER, P61324BA18 BOX, OR EQUAL BY CARSON FOR THE SIGN POWER. 30/1 NEMA 3R FDS FOR SIGN. COORDINATE THE EXACT LOCATION WITH CIVIL DRAWINGS (NOTE P11 AND P11A) AND VERIFY CONNECTION REQUIREMENTS.
E2	PROVIDE FINAL ELECTRICAL CONNECTION TO FUEL DISPENSER. PROVIDE CLASS 1 DIV 2 WIRING INSIDE THE HAZARDOUS ZONE.
E3	PROVIDE AND INSTALL QUAZITE NO. P61324CA0041 COVER, P61324BA18 BOX, OR EQUAL BY CARSON FOR THE TYPE C01 FIXTURE. COORDINATE THE EXACT LOCATION WITH GC. MOUNT DRIVERS FOR FLAG POLE LIGHTS IN BOX. PROVIDE FOR A COMPLETE INSTALLATION. INCLUDE NEMA 3R RATED 20A ENCLOSED CIRCUIT BREAKER OR FUSED DISCONNECT SWITCH.
E4	PROVIDE DUPLEX RECEPTACLE IN LIGHT POLE WITH WEATHER PROOF IN USE COVER.
E5	SEE DETAIL 1/E201 FOR TYPE DD1 CONTROL LOCATION. KEYNOTE L19.
E6	STUB TWO (2) 2" CONDUITS FROM DTR LOCATION TO PROPERTY LINE. ONE FOR TELEPHONE AND ONE FOR TV UTILITY SERVICE CABLES. FIELD COORDINATE EXACT TERMINATION LOCATION WITH UTILITY COMPANIES AS PER SPECIFICATIONS 270528 AND 274133.
E7	8TD UNDER ALTERNATE NUMBER 1 ONLY.
E8	8TD EXTERIOR ACCENT LIGHTING ALONG LENGTH OF OFFICE BUILDING UNDER ALTERNATE NUMBER 8 ONLY.
E9	8TD UNDER ALTERNATE NUMBER 10 ONLY.
E10	PROVIDE 1-1/2" CONDUIT WITH #8 AWG CIRCUITRY FOR FUEL STATION POWER. KEEP A MINIMUM DISTANCE OF 20FT HORIZONTALLY FROM THE FUEL DISPENSER TO INSURE COMPLIANCE WITH NFPA 70 ARTICLE 514. ALL WIRING AND RACEWAY TO THE OWNER PROVIDED FUEL PUMP SHALL BE CLASS 1 DIV 2 AND COMPLY WITH NFPA 70 CHAPTER 5.
E11	PROVIDE 1" CONDUIT WITH PULL STRING FOR FUTURE NETWORK CABLING FOR FUEL STATION DATA. KEEP A MINIMUM DISTANCE OF 20FT HORIZONTALLY FROM THE FUEL DISPENSER TO INSURE COMPLIANCE WITH NFPA 70 ARTICLE 514. ALL WIRING AND RACEWAY TO THE OWNER PROVIDED FUEL PUMP SHALL BE CLASS 1 DIV 2 AND COMPLY WITH NFPA 70 CHAPTER 5.
E12	SEE DETAIL 3/E203 FOR TYPE C01 CONTROL.
E13	PROVIDE ELECTRICAL CONNECTION TO LIFT STATION CONTROL PANEL. VERIFY EXACT LOCATION WITH CIVIL DRAWINGS AND VERIFY CONNECTION REQUIREMENTS.
E14	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX PLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.



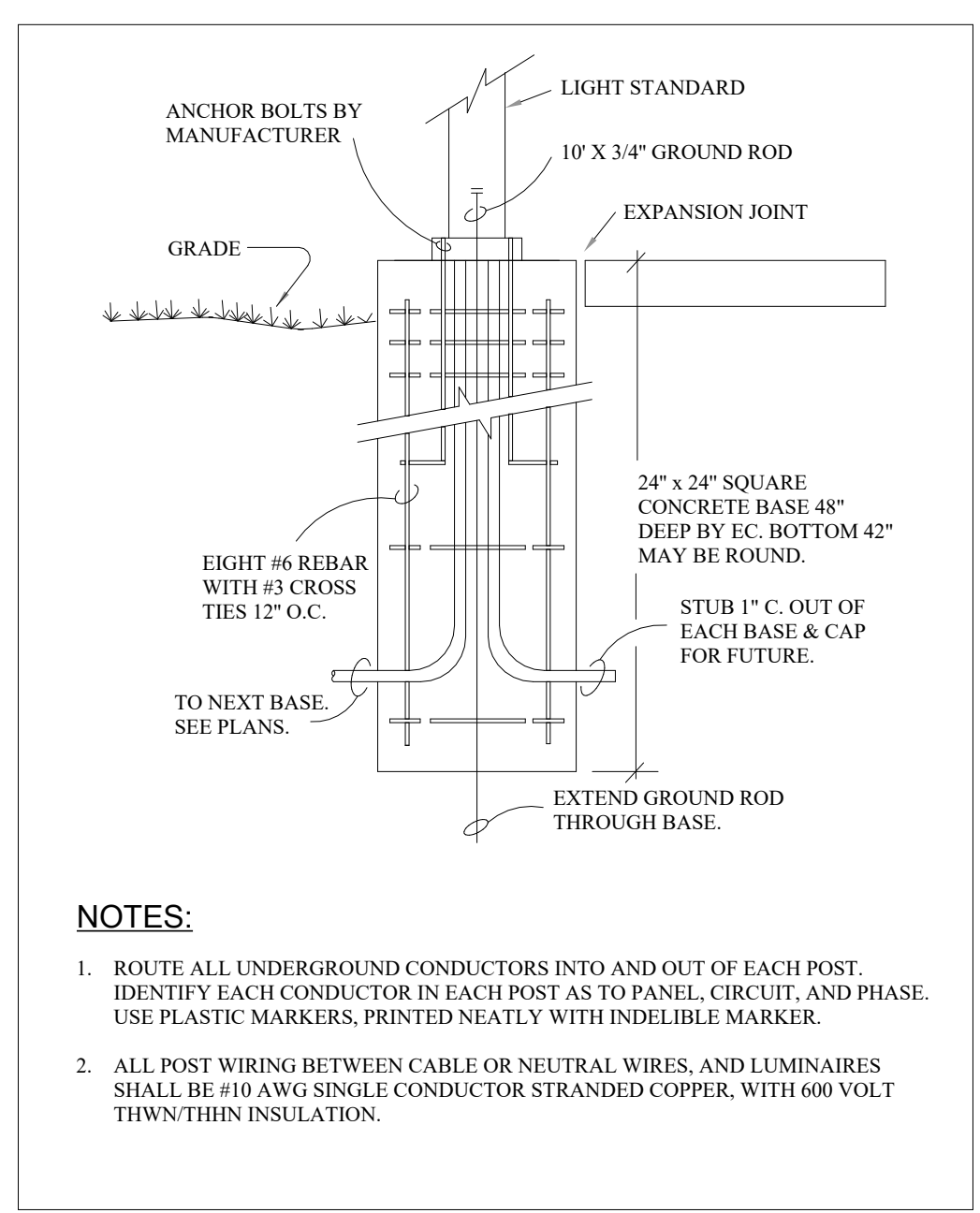
1
E100
Site Plan
1" = 20'-0"



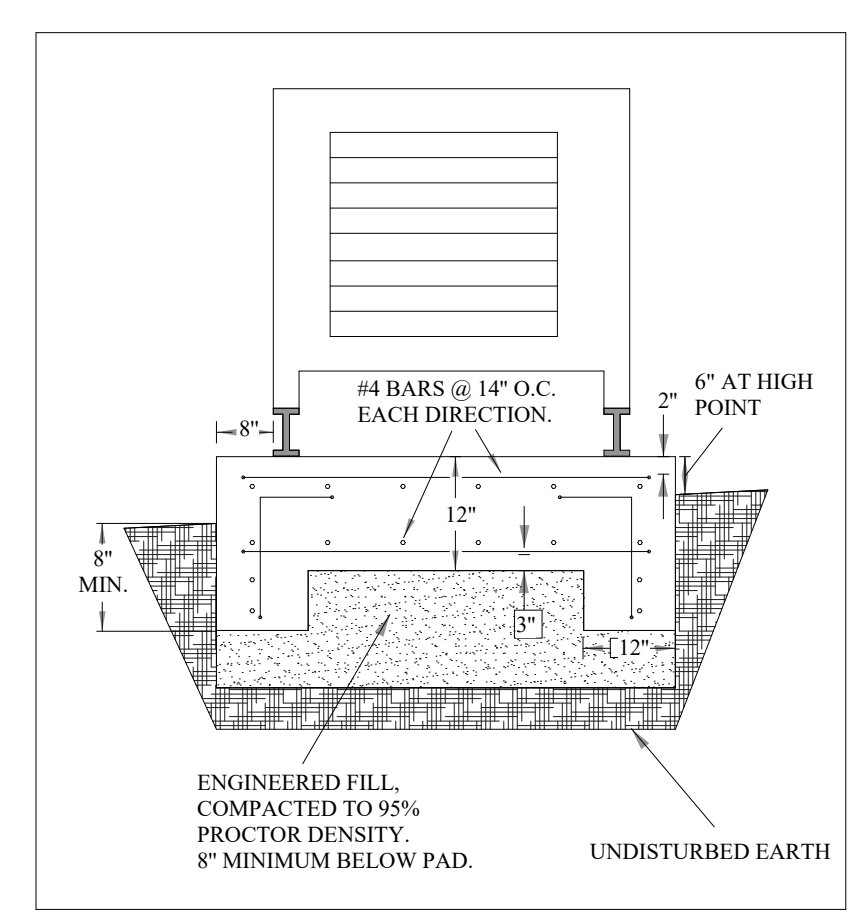
2
E100
IN-GRADE JUNCTION BOX
1/8" = 1'-0"



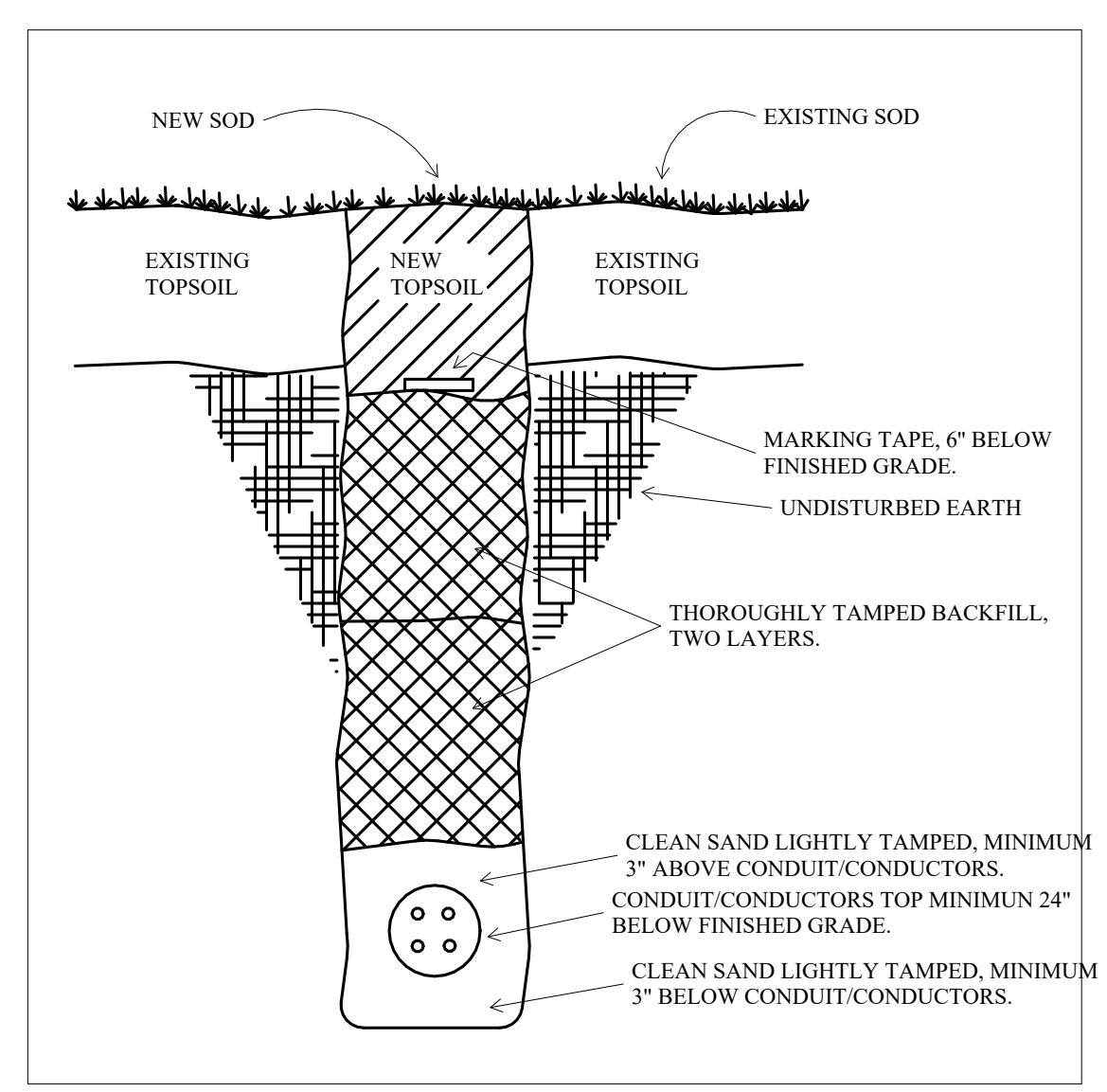
3
E100
POLE BASE 36"
1/8" = 1'-0"



4
E100
POLE BASE CURB
1/8" = 1'-0"



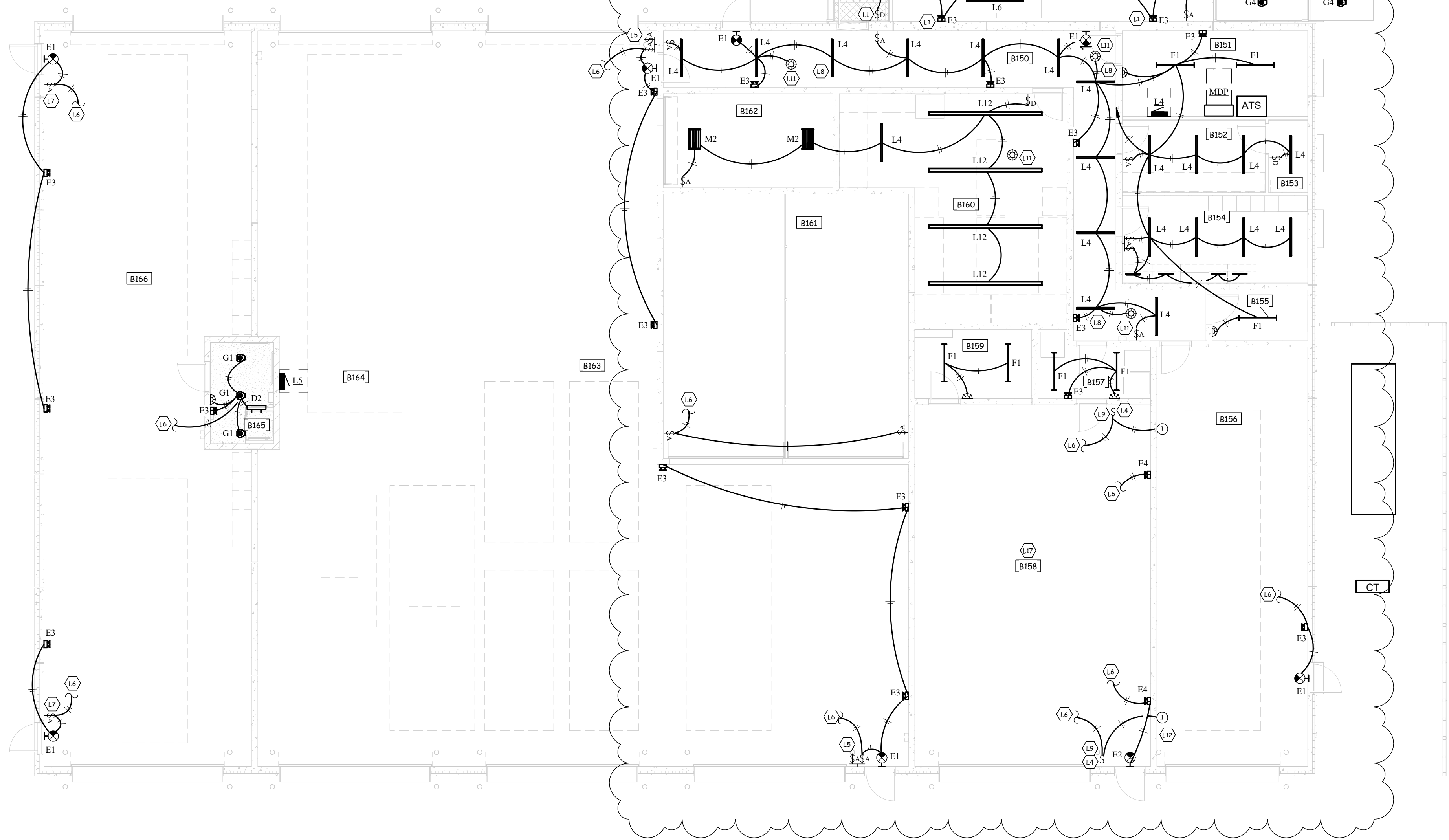
5
E100
GENSET PAD DETAIL
1/8" = 1'-0"



6
E100
UNDERGROUND CIRCUIT INSTALLATION
1/8" = 1'-0"

Room Schedule		
Number	Name	Area
A101	VESTIBULE	158 SF
A102	LOBBY	665 SF
A103	CONFERENCE ROOM	305 SF
A104	LOBBY	212 SF
A105	ADMIN	299 SF
A106	HALLWAY	1,250 SF
A107	PATROL WORKSTATIONS	432 SF
A108	DETECTIVE OFFICE	153 SF
A109	SARGENT SHARED OFFICE	153 SF
A110	TRUCK REG	153 SF
A111	WORKROOM	153 SF
A112	DT PROCESSING	62 SF
A113	CUSTODIAL	57 SF
A114	DRUG TESTING	59 SF
A115	INTOX.	45 SF
A116	RESTROOM	77 SF
A117	RESTROOM	70 SF
A118	EQUIP STORAGE	127 SF
A119	NIC / RECORD STORAGE	127 SF
A120	SHERIFF OFFICE	175 SF
A121	CHIEF DEPUTY OFFICE	179 SF
A122	BREAK ROOM	399 SF
A123	INTERVIEW	143 SF
A124	JUVENILE INTERVIEW	126 SF
B150	HALLWAY	460 SF
B151	ELECTRICAL	179 SF
B152	K-9 ROOM	115 SF
B153	DEA STORAGE	31 SF
B154	EVIDENCE PROCESSING	184 SF
B155	CUSTODIAL	54 SF
B156	EM BAY	71 SF
B157	LAUNDRY	71 SF
B158	WASH BAY	958 SF
B159	WASH BAY EQUIP	91 SF
B160	EVIDENCE STORAGE	473 SF
B161	EVIDENCE BAY	728 SF
B162	SM EVIDENCE	180 SF
B163	SHERIFF'S DEPARTMENT VEHICLES	2,439 SF
B164	RAPID DEPLOYMENT	1,688 SF
B165	RESTROOM	70 SF
B166	FIRE EQUIPMENT BAY	1,656 SF

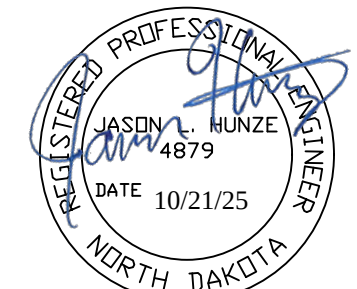
Keynote Legend	
L1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN GYMNASIUM OR OTHER EXPOSED CEILINGS IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
L3	BID UNDER ALTERNATE NUMBER 8 ONLY.
L4	PROVIDE WEATHER RESISTANT SWITCH AT THIS LOCATION. PROVIDE LINE POWERED WIRING TO WIRELESS RELAY(S) (NIGHT #RST OR WAVELINKS EQUIVALENT) OUTSIDE WASH BAY AREA.
L5	LINE POWERED WIRELESS SWITCH BANK. CONTROLS ZONE 1 & 2 AS DESCRIBED ON SHEET E202.
L6	TO NEAREST LIGHTING CIRCUIT. SEE SHEET E202.
L7	LINE POWERED WIRELESS SWITCH. CONTROLS FIRE BAY ZONE DESCRIBED ON SHEET E202.
L8	UNSWITCHED.
L9	PROVIDE AND INSTALL WEATHERPROOF COVER FOR THIS SWITCH LOCATION.
L11	LINE POWERED WIRELESS OCCUPANCY SENSOR
L12	PROVIDE WAVELINK WIRELESS OR NIGHT AIR WIRELESS POWERPACK/RELAY MODEL TO CONTROL LIGHT FIXTURES.
L15	HANG FROM BOTTOM SIDE OF LANDING ABOVE. 9" AFF
L16	PROVIDE WAVELINK WIRELESS OR NIGHT AIR WIRELESS POWERPACK/RELAY MODEL TO CONTROL TYPE J1 LIGHT FIXTURES. TYPE J1 CONSISTS OF 130 LINEAR FEET OF LED STRIP LIGHTING IN ANGLED CHANNEL AND SHALL BE DIMMABLE FROM THE SWITCH OUTSIDE THE SHERIFF OFFICE. PROVIDE ALL NECESSARY DRIVERS AND CABLING FOR SYSTEM AS REQUIRED.
L17	ALL WIRING/RACEWAY IN THE WASH BAY MUST BE INSTALLED AS PER THE NEC FOR A WET LOCATION.
L18	TYPE DD1 CONSISTS OF 87 LINEAR FEET OF RGBW LED STRIP LIGHTING AND SHALL BE DMX CONTROLLABLE FROM THE SWITCH IN ROOM A105. PROVIDE ALL NECESSARY DRIVERS AND CABLING FOR SYSTEM AS REQUIRED.
L19	PROVIDE NICOLAUDIE #STICK-DE3 DMX CONTROLLER OR EQUIVALENT TO CONTROL TYPE DD1 FIXTURE.
L20	MOUNT UNDER CABINET LIGHTS BENEATH DESK (TYPICAL OF ALL AT THIS LOCATION). COORDINATE EXACT LOCATION AND ROUTING WITH CABINETRY SUPPLIER/INSTALLER.



1
E201
Lighting Plan - Level 1
1/8" = 1'-0"



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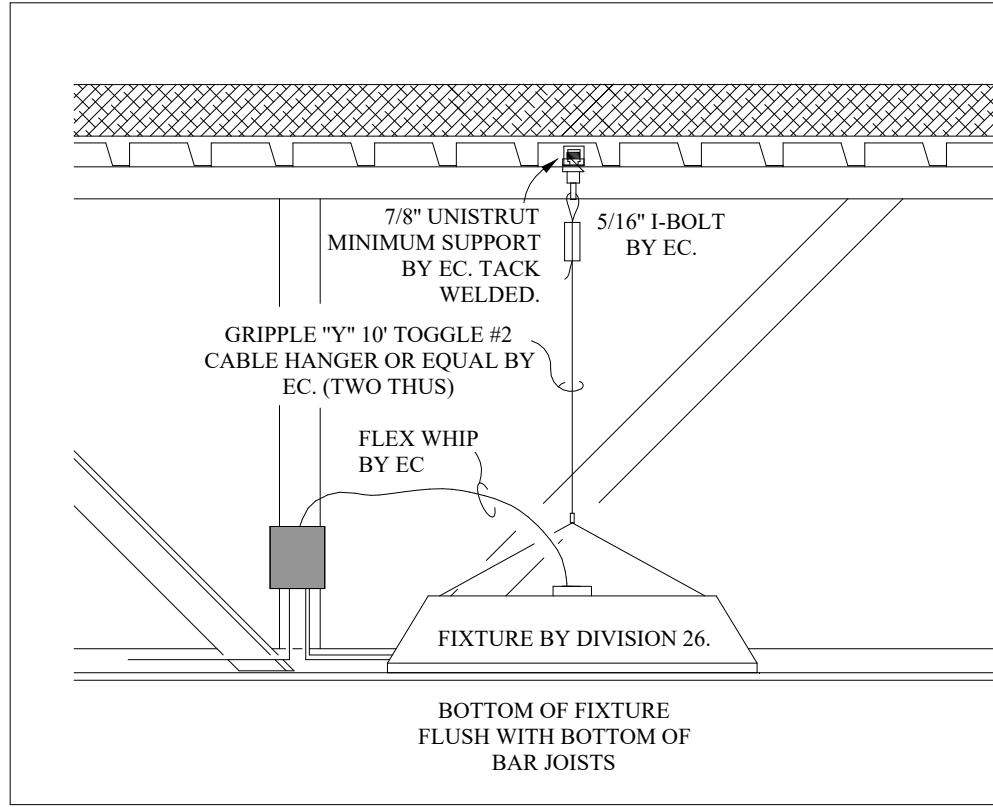
REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1.	Addendum 1	11/14/25
2.	Addendum 2	11/17/25

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

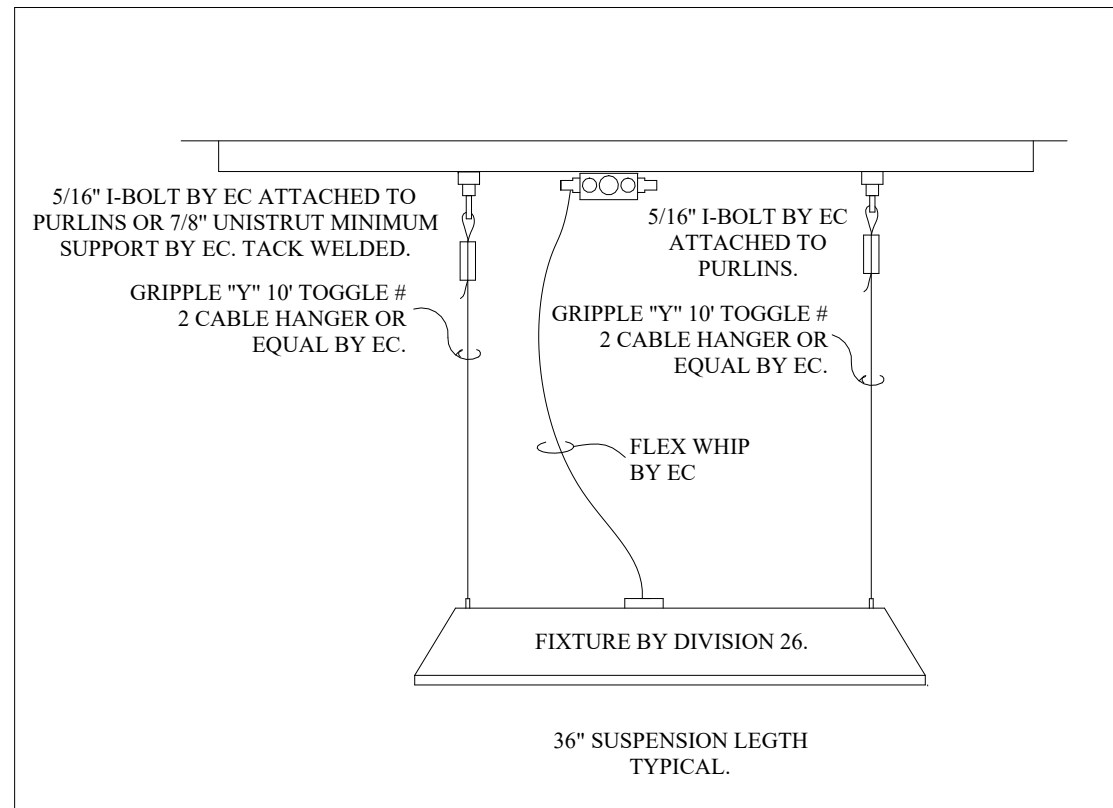
DATE
10/21/2025
PHASE
CONSTRUCTION
DOCUMENTS
PROJECT
PE 25028
SHEET
E201
LEVEL 1 LIGHTING
PLAN

FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NO.	DELIVERED LUMENS	FINISH	MOUNTING	REMARKS
A1	METALUX MARK ARCHITECTURAL	24RLN LD5 60 UNV L840 CD 1 WPS WHISPR LCTR SERIES	6,000	WHITE	SD 2/E203	2' X 4' LED ARCHITECTURAL TROFFER WITH WIRELESS CONTROL LED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
A2	METALUX MARK ARCHITECTURAL	22RLN LD5 44 UNV L840 CD 1 WPS WHISPR LCTR SERIES	4,400	WHITE	SD 2/E203	2' X 2' LED ARCHITECTURAL TROFFER WITH WIRELESS CONTROL LED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
D2	FAIL SAFE LUMINAIRE LED	HVSL4 2 LD4 2 LO 40 UNV O EDC1 BK SPC4 SERIES	2,000	BLACK	WALL MOUNTED	2' LED WALL BRACKET WITH OPAL LENS, AND VERTICAL TRIM BARS. 4000K
D3	FAIL SAFE LUMINAIRE LED	HVSL4 3 LD4 2 SLO 40 UNV O EDC1 BK SPC4 SERIES	4,000	BLACK	WALL MOUNTED	3' LED WALL BRACKET WITH OPAL LENS, AND VERTICAL TRIM BARS. 4000K
D4	FAIL SAFE LUMINAIRE LED	HVSL4 2 LD4 2 LO 40 UNV O SPC4 SERIES	6,000	BLACK	WALL MOUNTED	4' LED WALL BRACKET WITH OPAL LENS, AND VERTICAL TRIM BARS. 4000K
E1	EVENLITE ISOLITE	AUR U BA DTH2-U-BA-MTEB	INTEGRAL LEDS	BRUSHED ALUMINUM	NOTE 1	UNIVERSAL FACE AND MOUNT WITH GREEN LETTERS, ALUMINUM HOUSING, AND PHOTOLUMINESCENT DISPLAY.
E2	MULE LIGHTING EVENLITE	WLMX 1/2 A G WH SD TWL SERIES	INTEGRAL LEDS	WHITE	NOTE 1	UNIVERSAL FACE AND MOUNT LED EXT WITH GREEN LETTERS, AND SELF-DIAGNOSTICS. WET LISTED.
E3	MULE LIGHTING EVENLITE	SSL-HO W SD TCL SERIES	INTEGRAL LEDS	WHITE	NOTE 1	DECORATIVE EMERGENCY LED FIXTURE WITH SELF-DIAGNOSTICS.
E4	MULE LIGHTING EVENLITE	MRD-WL TCVS SERIES	INTEGRAL LEDS	WHITE	NOTE 1	DECORATIVE EMERGENCY LED FIXTURE WITH SELF-DIAGNOSTICS. WET LISTED.
F1	LITHONIA METALUX	ZL1D L48 7000LM FST MVOLT 40K 80CRI WH 45NX-67SL-LN-UNV-L840-CD-U	7,000	WHITE	SURFACE CEILING OR CHAIN HUNG TO AVOID MECHANICAL EQUIPMENT	4' LED STRIP LIGHT. 4000K
F2	LITHONIA METALUX	ZL1D L48 7000LM FST MVOLT 40K 80CRI WH NLTARE FLXSR10 45NX-67SL-LN-UNV-L840-CD-U-WPS-U	7,000	WHITE	SURFACE CEILING OR CHAIN HUNG TO AVOID MECHANICAL EQUIPMENT	4' LED STRIP LIGHT WITH WIRELESS OCCUPANCY SENSOR AND CONTROL. 4000K
F3	LITHONIA METALUX	ZL1D L48 7000LM FST MVOLT 40K 80CRI WH 45NX-67SL-LN-UNV-L840-CD-U	7,000	WHITE	NOTE 3	SAME AS F1 EXCEPT MOUNTING TYPE.
G1	HALO COMMERCIAL LITHONIA	HC6 20 D010 HM6 0525 840 61 WD H LDN6 SERIES	2,000	SEMI-SPECULAR SILVER	RECESSED CEILING	6" LED DOWNLIGHT WITH WIDE DISTRIBUTION. 4000K
G2	HALO COMMERCIAL LITHONIA	HCC6S 50 D010 MB WPN HM6C 4550 840 61 WD H LDN6 CYLINDER SERIES	5,000	BLACK	SURFACE CEILING	6" LED CYLINDER WITH WIDE DISTRIBUTION AND WIRELESS CONTROLS. 4000K
G3	SPECTRUM LIGHTING SSL	CF0618PC 50L 40K WD PM18 SSC6R SERIES	5,000	BLACK	SURFACE CEILING	18" TALL LED CYLINDER WITH WIDE DISTRIBUTION AND REMOTE DRIVER. 4000K
G4	HALO COMMERCIAL LITHONIA	HC6 30 D010 WPN HM6 3040 840 61 WD H LDN6 SERIES	3,000	SEMI-SPECULAR SILVER	RECESSED CEILING	6" LED DOWNLIGHT WITH WIDE DISTRIBUTION. WET LOCATION LISTED AND WIRELESS CONTROL. 4000K
H4	NEORAY MARK ARCHITECTURAL	S124DR-S102D866-FTG4FO-I-1-0DD-F-W-WPN SLOT 4 SERIES	1,000/FT	WHITE	RECESSED CEILING	4" WIDE LINEAR LED WITH WIRELESS CONTROLS. 4000K
H8	NEORAY MARK ARCHITECTURAL	S124DR-S102D866-FTG8FO-I-1-0DD-F-W-WPN SLOT 4 SERIES	1,000/FT	WHITE	RECESSED CEILING	4" WIDE LINEAR LED WITH WIRELESS CONTROLS. 4000K
J1	ACCLAIM WAC	FLEX10H FLX4SD 1/2M FLX4SD 0/L 1/2M T24-C36 SERIES	500/FT	ALUMINUM	ANGLED DOWN AT 9° AFF	LED TAPE LIGHT WITH OPAL LENSE IN ANGLED CHANNEL. INCLUDE ALL DRIVERS AND ACCESSORIES FOR A COMPLETE INSTALLATION.
K1	SPRING LIGHTING GROUP LITHONIA	WV1 L5150 G2 FSK B M58-DCE-06-W-DT5 0 WDGE SERIES	12,000	BLACK	WALL MOUNT 18" AFO	WEDGE SHAPE ARCHITECTURAL LED WALL PACK WITH INTEGRAL BE-LEVEL, MOTION SENSOR WITH PRE-PROGRAMMED PHOTOCELL FOR DUSK TO DAWN OPERATIONS. 4000K
L4	NEORAY MARK ARCHITECTURAL	S124DIP-C795D365U840-C4IB-B-4FO-I-U-DD-F-B-WPN SLOT 4 SERIES	800/FT DOWN 300/FT UP	BLACK	CABLE MOUNT 11" AFF	4" WIDE DIRECT/INDIRECT LINEAR FIXTURE WITH DIMMING AND WIRELESS CONTROLS. 4000K
L6	NEORAY MARK ARCHITECTURAL	S124DIP-C795D365U840-C4IB-B-6FO-I-U-DD-F-B-WPN SLOT 4 SERIES	800/FT DOWN 300/FT UP	BLACK	CABLE MOUNT 11" AFF	4" WIDE DIRECT/INDIRECT LINEAR FIXTURE WITH DIMMING AND WIRELESS CONTROLS. 4000K
L12	NEORAY MARK ARCHITECTURAL	S124DIP-C795D365U840-C4IB-B-12FO-I-U-DD-F-B-WPN SLOT 4 SERIES	800/FT DOWN 300/FT UP	BLACK	CABLE MOUNT 11" AFF	4" WIDE DIRECT/INDIRECT LINEAR FIXTURE WITH DIMMING AND WIRELESS CONTROLS. 4000K
M1	LITHONIA METALUX	IBG 18000LM SEF PFL GND MVOLT GZ10 40K 80CRI NLTARE RLXSR6 VHB SERIES	18,000	BLACK	SD 4/E203	LED HIGH BAY FIXTURE WITH LENS, WIRELESS CONTROLLED DIMMING, HIGH MOUNT OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
M2	LITHONIA METALUX	IBG 12000LM SEF PFL GND MVOLT GZ10 40K 80CRI NLTARE RLXSR10 VHB SERIES	12,000	BLACK	SD 5/E203	LED HIGH BAY FIXTURE WITH LENS, WIRELESS CONTROLLED DIMMING, LOW MOUNT OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
M3	LITHONIA LUX DYNAMICS	XIB L24 24000LM FRGL MVOLT GZ10 40K 80CRI NLTARE RLXSR10 L-2-S-A-840-2-10-WA-10Y-BLKG-(WAVELINX)-WET	24,000	BLACK	SD 4/E203	WET LOCATION LED HIGH BAY FIXTURE WITH LENS, WIRELESS CONTROLLED DIMMING, OCCUPANCY SENSOR, AND PHOTOCELL. 4000K
S4	AXIS LUMENWERX	SL3 500 80 40 50 L4 C DP 1 UB SHLUS3 SERIES	800/FOOT	PER ARCHITECT	RECESSED IN WOOD CEILING	RECESSED LINEAR 3" SLIM FIXTURE. FIELD VERIFY EXACT LOCATION. COORDINATE INSTALLATION WITH WOOD SLAT CEILING INSTALLER. LOCATE REMOTE DRIVERS IN ACCESSIBLE LOCATIONS.
S8	AXIS LUMENWERX	SL3 500 80 40 50 L8 C DP 1 UB SHLUS3 SERIES	800/FOOT	PER ARCHITECT	RECESSED IN WOOD CEILING	SAME AS S4 EXCEPT 8' FOOT.
U1	HALO AEL	HU30M SCTD 24 P MEMLNK SERIES	600	PER ARCHITECT	COORDINATE WITH CABINET INSTALLER	2' LED UNDER CABINET FIXTURE. PROVIDE SPLICE BOX AND DAISY CHAIN CONNECTORS AS REQUIRED FOR A COMPLETE INSTALLATION. 4000K
AA1	LITHONIA LUMARK	RSX3 LED P3 40K R4 MVOLT RPA NLTARE PRH1 DOXDZ RT530 7-0R DMX-AS FDLGFC1C PRV-XL-P40B-740-U-T4W-SA-BK-WPS4BK RTS-39-901-1AB-XX-BK-VD-GFLC	40,000	BLACK	SD 3/E100 NOTE 2	ARCHITECTURAL AREA LUMINAIRE WITH TYPE 4 DISTRIBUTION, WIRELESS CONTROL SYSTEM, AND INTEGRAL OCCUPANCY SENSOR. NOTE 2
BB1	LUMINIS ZUMA	CL840 L8L60 CLP868 40K MVOLT PH ADE-C-08120-25W-U-T360-FA-XXX-BK-PC	6,000	BLACK	SD 4/E100	3" ROUND TAPERED STEEL POLE WITH VIBRATION DAMPENER AND BASE COVER. AND TESTOON WITH GFCI AND IN-USE COVER.
CC1	POLELED	EXTENDED WHALYARD	3,000	ALUMINUM	FLAG POLE MOUNT	POLE TYPE LUMINAIRE WITH INTEGRAL PHOTOCELL.
DD1	ACCLAIM	F2H-2224-1-RN	250/FT	NA	SEE DETAIL 2D/A510	RGBW WET LOCATION LED TAPE LIGHT. INCLUDE ALL DRIVERS AND ACCESSORIES FOR A COMPLETE INSTALLATION. DMX CONTROLLED.

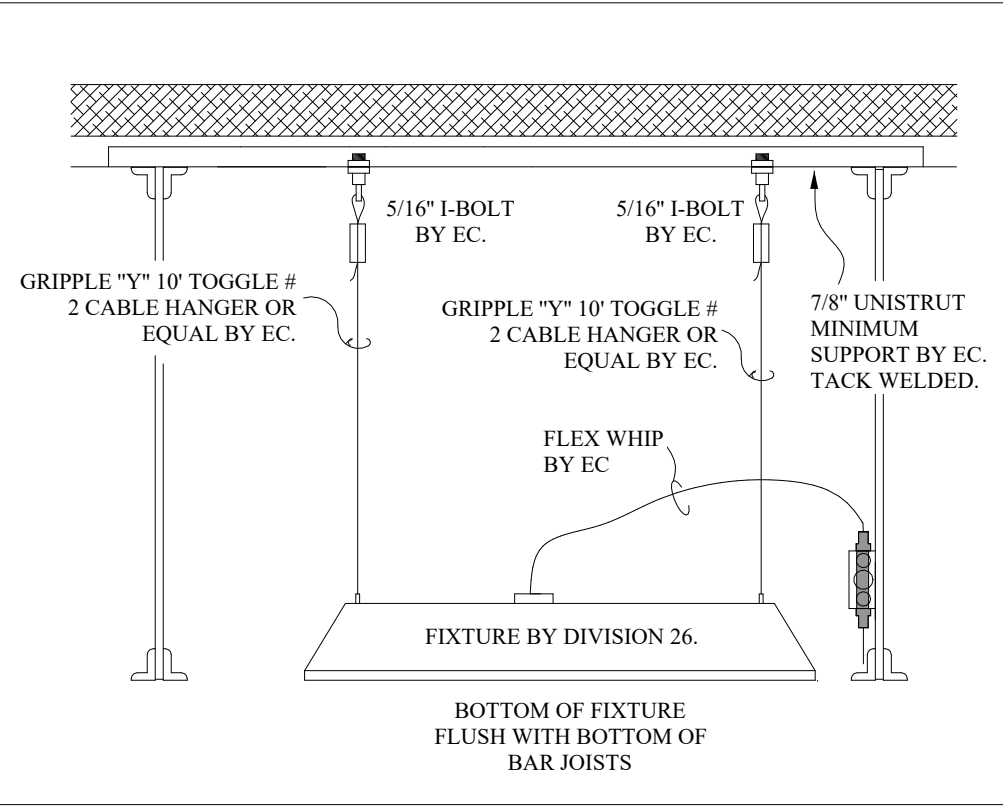
- NOTES:
1. WALL MOUNT DIRECTLY ABOVE EXIT DOOR WHERE POSSIBLE. CEILING OR END MOUNT IN REMAINING LOCATIONS AS DICTATED BY BUILDING CONDITIONS.
 2. LUMINAIRE QUANTITY AND ORIENTATION AS SHOWN ON DRAWINGS.
 3. FIXTURE SHALL BE MOUNTED TO THE DOWN RANGE SIDE OF THE SHOOTING RANGE BAFFLES. SHOOTING RANGE SUPPLIER WILL PROVIDE BRACKET FOR SURFACE MOUNT INSTALLATION.



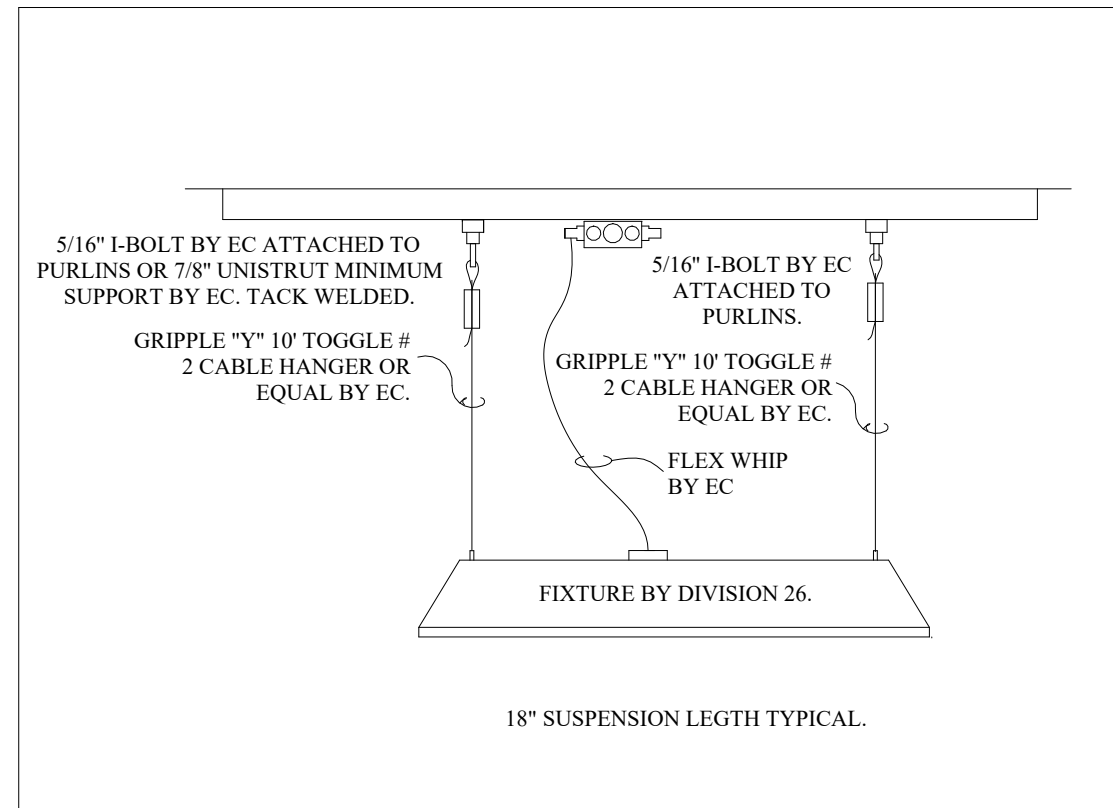
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E203
1/8" x 1'-0"



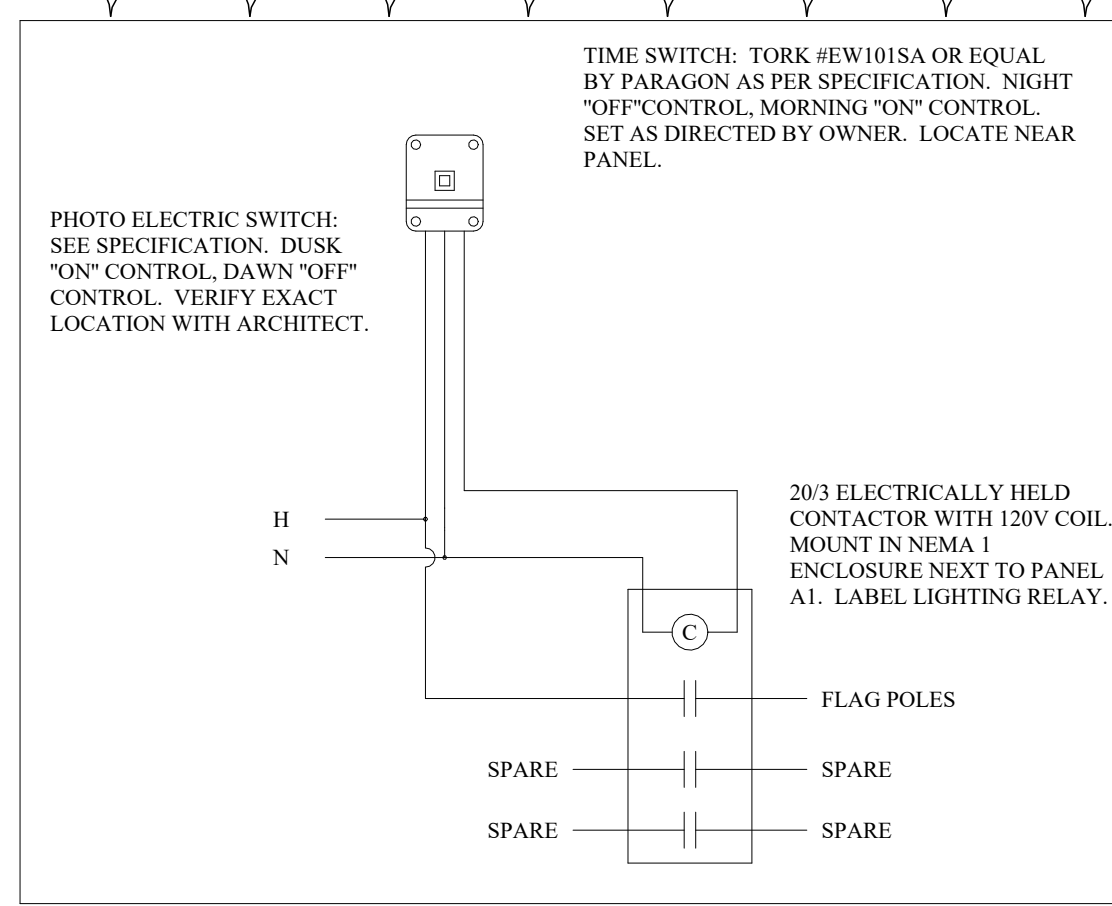
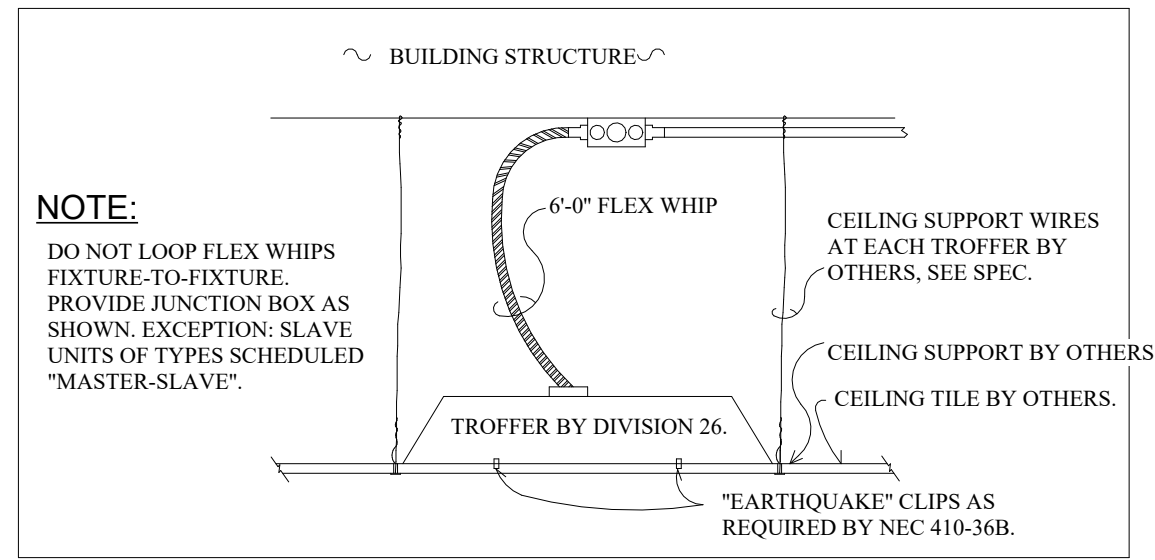
4
E203
1/8" x 1'-0"



2
E203
1/8" x 1'-0"



5
E203
1/8" x 1'-0"



3
E203
1/8" x 1'-0"

LIGHTING SWITCH SCHEDULE BASED ON ALIGH AB PART NUMBERS (OR EQUAL SYSTEM BY WAVELINX)		
SYMBOL	DESCRIPTION	PART #
\$A	LINE POWERED WALL SWITCH, ON/OFF, RAISE/LOWER DIMMING CONTROL	RP00LA-DX
\$B	LINE POWERED WALL SWITCH, 2-POLE ON/OFF, TWO RAISE/LOWER DIMMING CONTROLS	RP00LA-2P-DX
\$C	LOW VOLTAGE WALL SWITCH, 2-POLE ON/OFF, RAISE/LOWER DIMMING CONTROL, AND CCT CONTROL	RP00LA-2P-DX-CCT
\$D	LINE POWERED WALL SWITCH, ON/OFF	RP00LA
\$E	LINE POWERED WALL SWITCH, 2-POLE ON/OFF	RP00LA-2P
\$a	WALL MOUNTED OCCUPANCY SENSOR - SEE SPECIFICATION SECTION 262726	
\$b	WALL MOUNTED OCCUPANCY SENSOR (TYPE D) WITH DIMMING CONTROL - SEE SPECIFICATION SECTION 262726	
\$c	CEILING MOUNTED OCCUPANCY SENSOR - SEE SPECIFICATION SECTION 262726	



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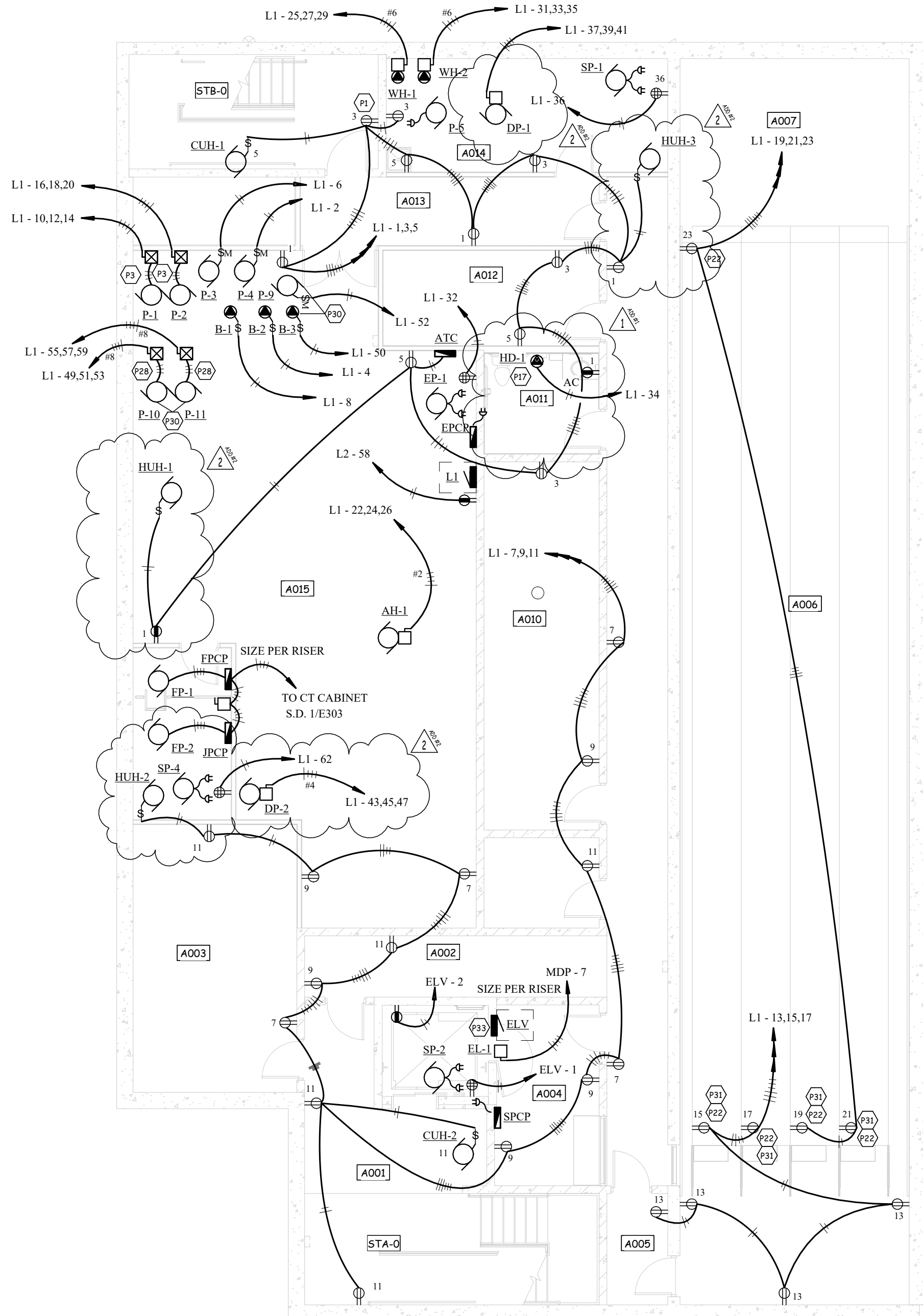
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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1	Addendum 1	11/14/25
2	Addendum 2	11/17/25

Room Schedule		
Number	Name	Area
A001	SECURE ENTRY	150 SF
A002	HALLWAY	123 SF
A003	UNIFORM STORAGE	292 SF
A004	RANGE MASTER	124 SF
A005	AIR LOCK	45 SF
A006	SHOOTING LANES	1,592 SF
A007	BULLET TRAP	282 SF
A008	HALLWAY	410 SF
A009	GUN CLEANING	69 SF
A010	ARMORY	282 SF
A011	RESTROOM	76 SF
A012	STORAGE	137 SF
A013	HALLWAY	136 SF
A014	MECHANICAL	213 SF
A015	MECHANICAL	1,239 SF
A015A	FIRE PUMP	112 SF

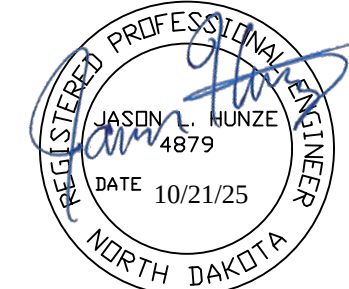
Keynote Legend	
P1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN DEPLOYMENT BAYS OR OTHER EXPOSED CEILINGSS IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
P3	PROVIDE AND INSTALL BELDEN MODEL# 29502, OR EQUIVALENT, VFD CABLE IN 1" CONDUIT BETWEEN VFD AND MOTOR. SD 3/E304 AND SPECIFICATION 260519 FOR FURTHER DETAILS.
P17	PROVIDE ELECTRICAL CONNECTION TO ELECTRIC HAND DRYER. COORDINATE DEVICE HEIGHT WITH G.C.
P22	PROVIDE RECEPTACLE AT 8' AFF FOR SHOOTING LANE CONTROL/SERVICE. VERIFY EXACT LOCATION WITH EQUIPMENT PROVIDER.
P28	PROVIDE AND INSTALL BELDEN MODEL# 29504, OR EQUIVALENT, VFD CABLE IN 1-1/4" CONDUIT BETWEEN VFD AND MOTOR. SD 3/E304 AND SPECIFICATION 260519 FOR FURTHER DETAILS.
P30	ADD UNDER ALTERNATE 2.
P31	ADD UNDER ALTERNATE 6.
P33	SEE DETAIL 2/E304 FOR ADDITIONAL ELEVATOR INFORMATION.



Power Plan - Basement
1/8" = 1'-0"



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REVISION SCHEDULE		
NO.	DESCRIPTION	DATE
1.	Addendum 1	11/4/25
2.	Addendum 2	11/7/25

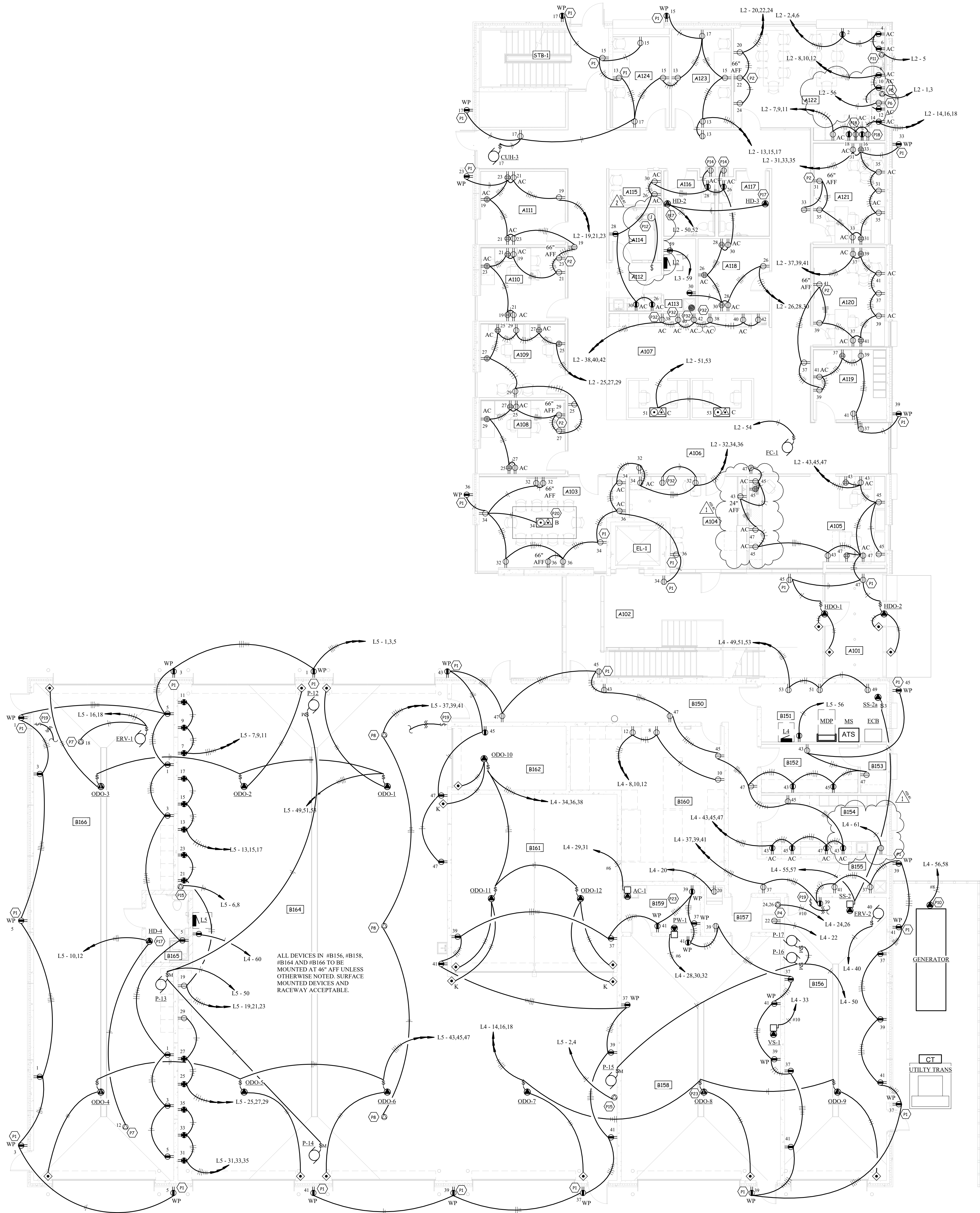
DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

DATE	10/21/2025
PHASE	CONSTRUCTION DOCUMENTS
PROJECT	PE 25028
SHEET	E300
BASEMENT POWER PLAN	



Room Schedule		
Number	Name	Area
A101	VESTIBULE	158 SF
A102	LOBBY	665 SF
A103	CONFERENCE ROOM	305 SF
A104	LOBBY	212 SF
A105	ADMIN	299 SF
A106	HALLWAY	1,250 SF
A107	PATROL WORKSTATIONS	432 SF
A108	DETECTIVE OFFICE	153 SF
A109	SARGENT SHARED OFFICE	153 SF
A110	TRUCK REG	153 SF
A111	WORK ROOM	153 SF
A112	DT PROCESSING	62 SF
A113	CUSTODIAL	57 SF
A114	DRUG TESTING	59 SF
A115	INTOX.	45 SF
A116	RESTROOM	77 SF
A117	RESTROOM	70 SF
A118	EQUIP STORAGE	127 SF
A119	REC'D / RECORD STORAGE	127 SF
A120	SHERIFF OFFICE	176 SF
A121	CHIEF DEPUTY OFFICE	179 SF
A122	BREAK ROOM	399 SF
A123	INTERVIEW	143 SF
A124	JUVENILE INTERVIEW	126 SF
B150	HALLWAY	460 SF
B151	ELECTRICAL	179 SF
B152	K-9 ROOM	115 SF
B153	DEA STORAGE	31 SF
B154	EVIDENCE PROCESSING	184 SF
B155	CUSTODIAL	54 SF
B156	EM BAY	711 SF
B157	LAUNDRY	71 SF
B158	WASH BAY	958 SF
B159	WASH BAY EQUIP	91 SF
B160	EVIDENCE STORAGE	473 SF
B161	EVIDENCE BAY	728 SF
B162	SM EVIDENCE	180 SF
B163	SHERIFF'S DEPARTMENT VEHICLES	2,439 SF
B164	RAPID DEPLOYMENT	1,688 SF
B165	RESTROOM	70 SF
B166	FIRE EQUIPMENT BAY	1,656 SF

Keynote Legend	
P1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN DEPLOYMENT BAYS OR OTHER EXPOSED CEILING IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
P2	PROVIDE WIREMOLD #EFS82, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE 58.
P4	PROVIDE AND INSTALL NEMA 14-30R RECEPTACLE FOR DRYER. E.C. TO PROVIDE RANGE CORD AND PLUG AS REQUIRED.
P5	PROVIDE AND INSTALL NEMA 14-50R RECEPTACLE FOR RANGE. E.C. TO PROVIDE RANGE CORD AND PLUG AS REQUIRED.
P6	CONNECT TO RANGE HOOD AND HOOD LIGHTS. 72" AFF TYPICAL
P7	INDUSTRIAL POWER CORD REEL: #12 AWG 3-CONDUCTOR (ONE HOT, ONE NEUTRAL, ONE GROUND) TYPE SO CABLE WITH 40-50' TRAVEL, CABLE STOP, CABLE LOCKING RATCHET, ROLLER GUIDE, 6FCL PROTECTION, AND TERMINATED IN A DOUBLE DUPLEX BOX. HUBBELL MODEL# HBL451236F220M1 OR EQUIVALENT. SET CORD STOP TO HOLD RECEPTACLE AT 7' AFF. PROVIDE NEMA L5-20R RECEPTACLE AT THE CEILING AND NEMA L5-20R CORD END FOR THE REEL.
P8	INDUSTRIAL POWER CORD REEL: #12 AWG 3-CONDUCTOR (ONE HOT, ONE NEUTRAL, ONE GROUND) TYPE SO CABLE WITH 40-50' TRAVEL, CABLE STOP, CABLE LOCKING RATCHET, ROLLER GUIDE, 6FCL PROTECTION, AND TERMINATED IN A DOUBLE DUPLEX BOX. HUBBELL MODEL# HBL451236F220M1 OR EQUIVALENT. SET CORD STOP TO HOLD RECEPTACLE AT 7' AFF. PROVIDE NEMA L5-20R RECEPTACLE AT THE CEILING AND NEMA L5-20R CORD END FOR THE REEL.
P10	PROVIDE CONNECTION TO GENERATOR ENCLOSURE LOADCENTER FOR BATTERY CHARGER AND HEATER.
P11	MOUNT RECEPTACLE IN ADJACENT BASE CABINET. FIELD COORDINATE WITH G.C. AND CABINET SUPPLIER TO CUT 60MM HOLE IN CABINET FOR WIRING. E.C. TO PROVIDE GFT APPLIANCE CORD FOR DISHWASHER
P12	CONNECT 120V CONTROL VALVE TO NEAREST 120V GENERAL RECEPTACLE CIRCUIT FOR POWER. PROVIDE OVERRIDE SWITCH NEAR THE PASS THROUGH WINDOW TO DISABLE WATER WHEN TESTING IS BEING PERFORMED.
P14	LOAD SIDE 6FCL
P15	PROVIDE NEMA 6-50R RECEPTACLE AT 46" AFF FOR WELDER. VERIFY EXACT LOCATION WITH OWNER.
P17	PROVIDE ELECTRICAL CONNECTION TO ELECTRIC HAND DRYER. COORDINATE DEVICE HEIGHT WITH G.C.
P18	PROVIDE A NEMA 5-20 RECEPTACLE FOR THE MICROWAVE. E.C. TO COORDINATE HEIGHT WITH CASEWORK. 24" AFF TYPICAL.
P19	INSTALL FAN SPEED CONTROLLER AT THIS LOCATION AND PROVIDE THE CONTROL CABLES TO THE FAN(S) IN THIS ROOM AS PER MANUFACTURERS INSTRUCTIONS.
P20	SEE DETAIL 1/E404 OR 2/E404 FOR MTR FLOOR BOX.
P23	ALL WIRING/RACEWAY IN THE WASH BAY MUST BE INSTALLED AS PER THE NEC FOR A WET LOCATION.
P32	COORDINATE LOCATION IN CASEWORK WITH CASEWORK VENDOR. ADJUST HEIGHT AS REQUIRED AND NEATLY CUT CASEWORK AND EXTEND BOX INTO THE CABINET AS REQUIRED.



1
E301
Power Plan - Level 1
1/8" = 1'-0"



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REGISTERED PROFESSIONAL ENGINEER
NORTH DAKOTA
DATE 10/21/25

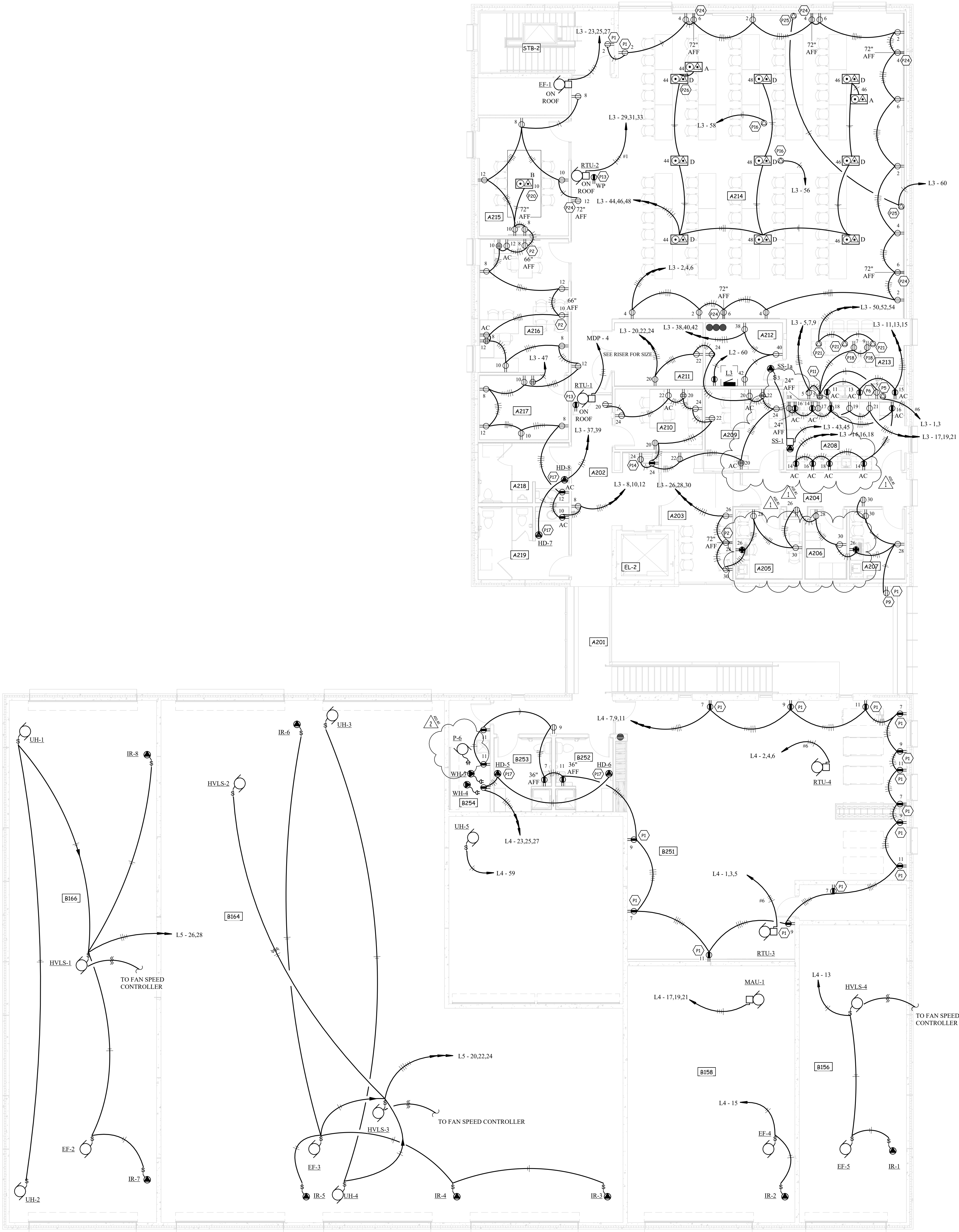
REVISION SCHEDULE
NO. DESCRIPTION DATE
1. Addendum 1 11/4/25
2. Addendum 2 11/7/25

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

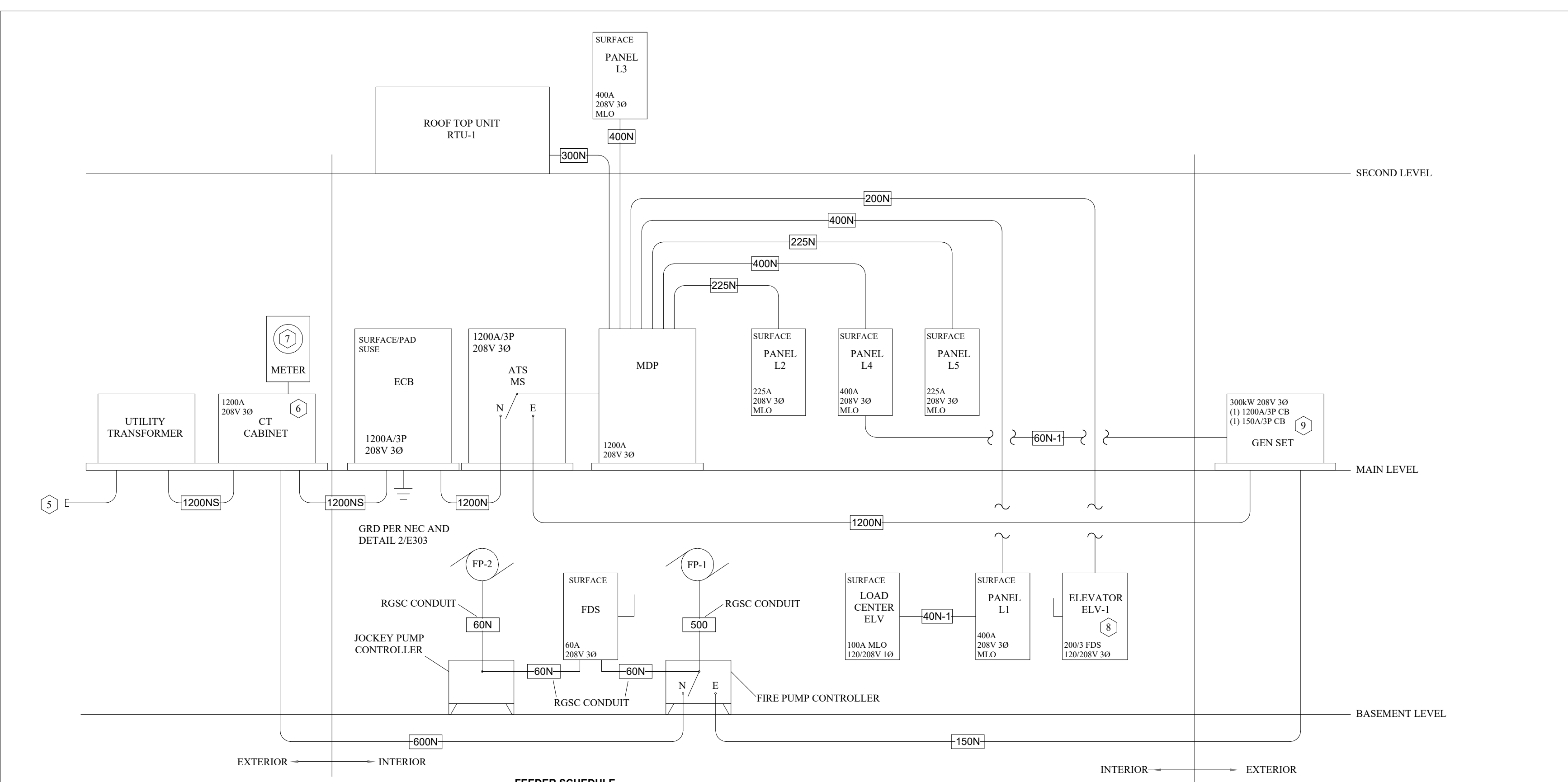
DATE
10/21/2025
PHASE
CONSTRUCTION
DOCUMENTS
PROJECT
PE 25028
SHEET
E301
LEVEL 1 POWER
PLAN

Room Schedule			
Number	Name	Area	
A102	LOBBY	665 SF	
A201	BRIDGE	205 SF	
A202	HALLWAY	244 SF	
A203	LOBBY	166 SF	
A204	HALLWAY	127 SF	
A205	EXAM	98 SF	
A206	STORAGE	62 SF	
A207	EXAM	85 SF	
A208	WORKROOM	180 SF	
A209	OFFICE	139 SF	
A210	CORNER	117 SF	
A211	STORAGE	124 SF	
A212	ELEC	108 SF	
A213	BREAK ROOM	209 SF	
A214	TRAINING ROOM / EOC	2,266 SF	
A215	UNIFIED COMMAND	234 SF	
A216	EM OFFICE	266 SF	
A217	EM STORAGE	127 SF	
A218	MEN	118 SF	
A219	WOMEN	144 SF	
B156	EM BAY	711 SF	
B158	WASH BAY	958 SF	
B163	SHERIFF'S DEPARTMENT VEHICLES	2,439 SF	
B164	RAPID DEPLOYMENT	1,688 SF	
B166	FIRE EQUIPMENT BAY	1,656 SF	
B251	FITNESS AREA	1,442 SF	
B252	RESTROOM	91 SF	
B253	RESTROOM	91 SF	
B254	STORAGE	102 SF	
B255	STORAGE	85 SF	

Keynote Legend	
P1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN DEPLOYMENT BAYS OR OTHER EXPOSED CEILING IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
P2	PROVIDE WIREMOLD #EF582, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE S8.
P5	PROVIDE AND INSTALL NEMA 14-50R RECEPTACLE FOR RANGE. E.C. TO PROVIDE RANGE CORD AND PLUG AS REQUIRED.
P6	CONNECT TO RANGE HOOD AND HOOD LIGHTS. 72" AFF TYPICAL.
P9	LOCATE ABOVE THE VESTIBULE CEILING ON THE FLOOR BELOW (ELEV 113').
P11	MOUNT RECEPTACLE IN ADJACENT BASE CABINET. FIELD COORDINATE WITH G.C. AND CABINET SUPPLIER TO CUT GROMMET HOLE IN CABINET FOR WIRING. E.C. TO PROVIDE 6FT APPLIANCE CORD FOR DISHWASHER.
P13	RECEPTACLE LOCATED ON ROOF. CONNECT TO NEAREST INTERIOR CONVENIENCE RECEPTACLE CIRCUIT FOR POWER.
P14	LOAD SIDE OF CL
P16	PROVIDE NEMA 5-20R RECEPTACLE FOR PROJECTOR POWER. PROVIDE CHIEF #CMS445 PROJECTOR MOUNTING PLATE AND PROPERLY SUPPORT FROM STRUCTURAL MEMBERS ABOVE PER MANUFACTURER INSTRUCTIONS. RECEPTACLE SHALL MOUNT TO THE FACE OF PLATE ALONG WITH THE "XO" AV DEVICE. COORDINATE EXACT LOCATION AND HEIGHT WITH PROJECTOR SYSTEMS KEYNOTE.
P17	PROVIDE ELECTRICAL CONNECTION TO ELECTRIC HAND DRYER. COORDINATE DEVICE HEIGHT WITH G.C.
P18	PROVIDE A NEMA 5-20 RECEPTACLE FOR THE MICROWAVE. E.C. TO COORDINATE HEIGHT WITH CASEWORK. 24" AFF TYPICAL.
P20	SEE DETAIL 1/E404 OR 2/E404 FOR INT. FLOOR BOX.
P21	PROVIDE POP-UP STYLE RECEPTACLE HUBBELL #RCT201W OR EQUIVALENT. CIRCUIT THROUGH CABINETRY AS REQUIRED.
P24	PROVIDE WIREMOLD #EF584, OR EQUIVALENT FOUR COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE S29. ONE COMPARTMENT DUPLEX REPT. ONE COMPARTMENT TWO DATA AND CATV. ONE COMPARTMENT "XO". AND ONE COMPARTMENT WITH LEGAND #WP1014WHV1 FOR FUTURE WITH 1" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE.
P25	PROVIDE 4-WIRE CONTROL CONNECTION TO PROJECTOR SCREEN. COORDINATE EXACT LOCATION WITH GC AND AV CONTRACTOR.
P26	SEE DETAIL 4/E304 FOR POKE THROUGH FLOOR BOX GENERAL NOTES. REFER TO SPECIFICATION SECTION 260540. TYPICAL FOR ALL FLOOR BOXES.



1
E302
Power Plan - Level 2
1/8" = 1'-0"



DESIG-NATION	CONFI-GURATION	REQUIRED AMPACITY	PHASE	NEUTRAL	EGC	CONDUIT
1200NS	30 4W	1200	(3) 600 kCMIL	(3) 600 kCMIL	NR	(3) 3-1/2"
1200N	30 4W	1200	(3) 600 kCMIL	(3) 600 kCMIL	(3) #3/0	(3) 3-1/2"
600N	30 4W	600	(2) 350 kCMIL	(2) 350 kCMIL	(2) #1	(2) 3"
500	30 4W	500	(2) 350 kCMIL	NR	(2) #1	(2) 3"
400N	30 4W	400	500 kCMIL	500 kCMIL	#1/0	3"
300N	30 4W	300	500 kCMIL	500 kCMIL	#1/0	3"
225N	30 4W	225	#4/0	#4/0	#4	2"
200N	30 4W	200	#3/0	#3/0	#6	2"
150N	30 4W	150	#1/0	#1/0	#6	1-1/2"
60N-1	30 4W	60	#6	#6	#10	1"
60N-1	10 3W	60	#6	#6	#10	1"
40N-1	10 3W	40	#8	#8	#10	1"

RISER DIAGRAM

NTS

Panel: L5

Volts: 120/208 Wye
Mains Rating: 225 A

Phase: 3
Mains Type: MLO
EATON POW-R-LINE SERIES

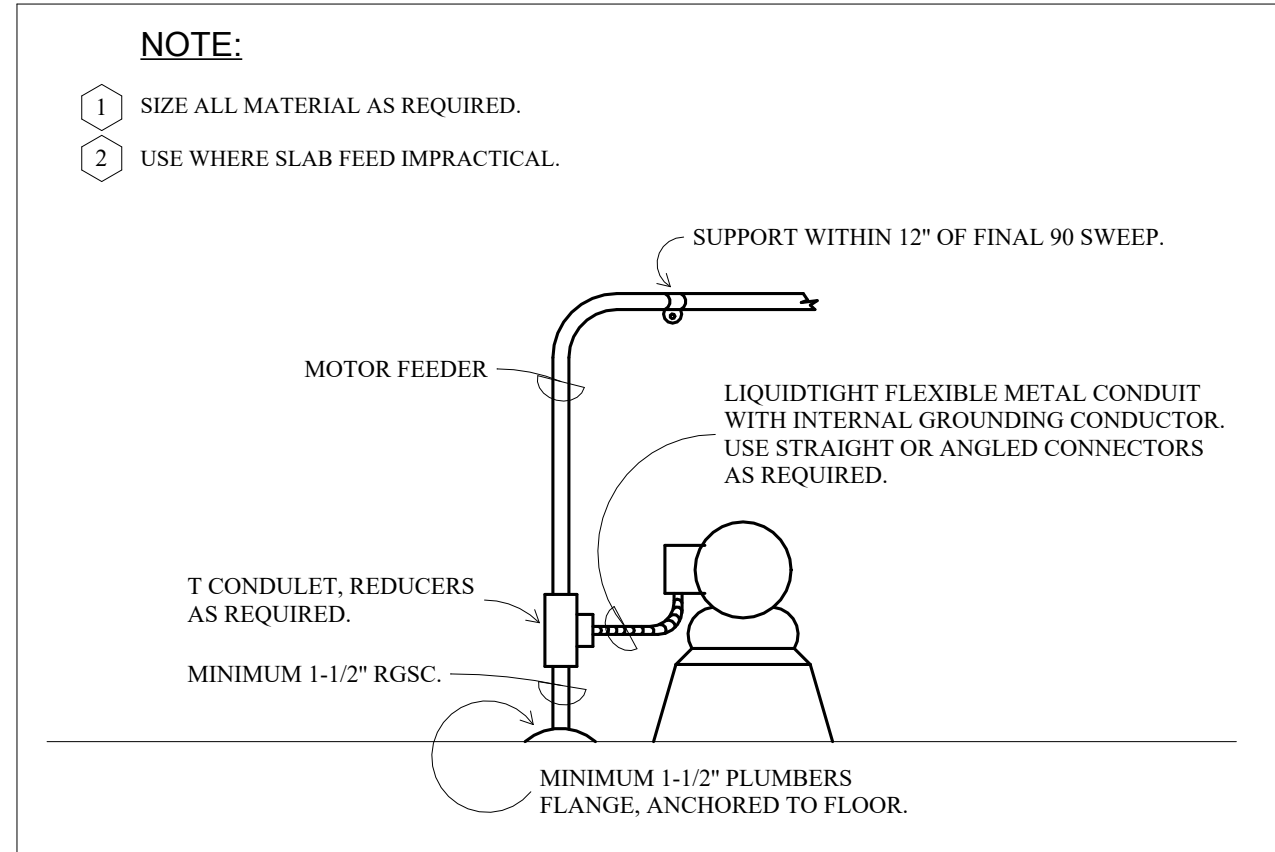
Wire: 4
Mounting: Surface

otes:

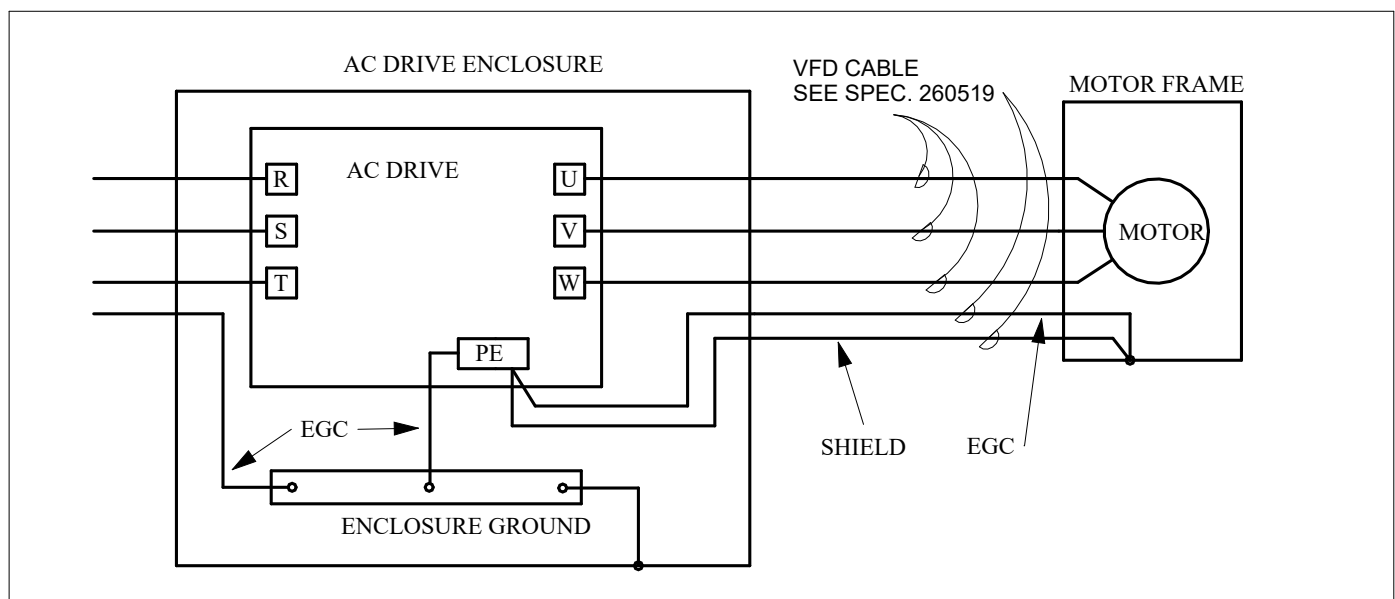
DESCRIPTION	CKT BRK	CKT #	GFCI	A	B	C	GFCI	CKT #	CKT BRK	DESCRIPTION	
XT/FIRE BAY RECP	20	1		900	90		X	2	50	WELDER	
XT/FIRE BAY RECP	20	1	3		900	90	X	4	--	--	
XT/FIRE BAY RECP	20	1	5			900	90	X	6	20 WELDER	
HOP WALL RECP	20	1	7	180	90		X	8	--	--	
HOP WALL RECP	20	1	9		180	0	X	10	1	20 HAND DRYER	
HOP WALL RECP	20	1	11			180	180	12	1	20 FIRE BAY REEL RECP	
HOP WALL RECP	20	1	13	180	0			14	1	20 EXTERIOR LIGHTS	
HOP WALL RECP	20	1	15		180	360		16	1	20 ERV-1	
HOP WALL RECP	20	1	17			180	180	18	1	20 FIRE BAY REEL RECP	
REEZER	20	1	19	X	180	1600		20	1	20 UH SHERIFF BAY	
HOP WALL RECP	20	1	21		180	1200		22	1	20 SHERIFF FANS	
HOP WALL RECP	20	1	23			180	1896	24	1	20 SHERIFF MECH	
HOP WALL RECP	20	1	25		180	1600		26	1	20 UH FIRE BAY	
HOP WALL RECP	20	1	27		180	816		28	1	20 FIRE BAY MECH	
REEZER	20	1	29	X		180	0	30	1	20 FUEL PUMP	
HOP WALL RECP	20	1	31		180	1440		32	1	20 SHOP LIGHTS	
HOP WALL RECP	20	1	33			180	1440	34	1	20 SHOP LIGHTS	
HOP WALL RECP	20	1	35			180	1676	36	1	20 FIRE LIGHTS	
ROP CORD	20	1	37		180	800		38	2	20 SITE LIGHTS	
ROP CORD	20	1	39			180	800	40	--	--	
ROP CORD	20	1	41			180	1200	42	2	20 SITE LIGHTS	
ODO-6	20	1	43		180	1200		44	--	--	
ODO-5	20	1	45			180	800	46	2	20 SITE LIGHTS	
ODO-4	20	1	47			180	800	48	--	--	
ODO-1	20	1	49		180	0		50	1	20 HYDRONIC PUMP	
ODO-2	20	1	51			180	0	52	1	20 EXTERIOR LIGHTS	
ODO-3	20	1	53			180	325	54	1	20 STAIR LIGHT	
PARE	20	1	55	0	180			56	1	20 L4 SERVICE RECP	
PARE	20	1	57		0	0		58	1	20 SPARE	
PARE	20	1	59			0	0	60	1	20 SPARE	
PARE	20	1	61		0	0		62	1	20 SPARE	
PARE	20	1	63			0	0	64	1	20 SPARE	
PARE	20	1	65				0	66	1	20 SPARE	
PARE	20	1	67	0	0			68	1	20 SPARE	
PARE	20	1	69			0	0	70	1	20 SPARE	
PARE	20	1	71			0	0	72	1	20 SPARE	
PARE	20	1	73		0	0		74	1	20 SPARE	
PARE	20	1	75			0	0	76	1	20 SPARE	
PARE	20	1	77			0	0	78	1	20 SPARE	
PARE	20	1	79		0	0		80	1	20 SPARE	
PARE	20	1	81			0	0	82	1	20 SPARE	
PARE	20	1	83			0	0	84	1	20 SPARE	
Amps per Phase:				79 A	65 A	73 A					
LOAD	CONNECTED			DEMAND			ADJUSTED				
LIGHTING	4.9 kVA			125.00%			6.1 kVA				
RECEPTACLES	6.8 kVA			100.00%			6.8 kVA				
HVAC	8.6 kVA			100.00%			8.6 kVA				
KITCHEN											
OTHER	5.6 kVA			100.00%			5.6 kVA				
				Total kVA:			27.1 kVA				
				Total Amps:			75.2 A				

Panel: ELV											
Volts: 208V 2P 3W Mains Rating: 100 A				Phase: 1 Mains Type: MLO BR SERIES LOADCENTER				Wire: 3 Mounting: Surface			
Notes:											
DESCRIPTION	CKT BRK	CKT #	GFCI	B		C		GFCI	CKT #	CKT BRK	DESCRIPTION
ELEVATOR SUMP	20	1	1	180	180			2	1	20	ELEVATOR RECP
PIT LIGHT	20	1	3			0	0	4	1	20	CAB LIGHT
			5					6			
			7					8			
			9					10			
			11					12			
			13					14			
			15					16			
Amps per Phase:				3 A		0 A					
LOAD		CONNECTED				DEMAND				ADJUSTED	
LIGHTING											
RECEPTACLES		0.4 kVA				100.00%				0.4 kVA	
HVAC		0.0 kVA				Not Computed				0.0 kVA	
KITCHEN											
OTHER											
						Total kVA:			0.4 kVA		
						Total Amps:			1.7 A		

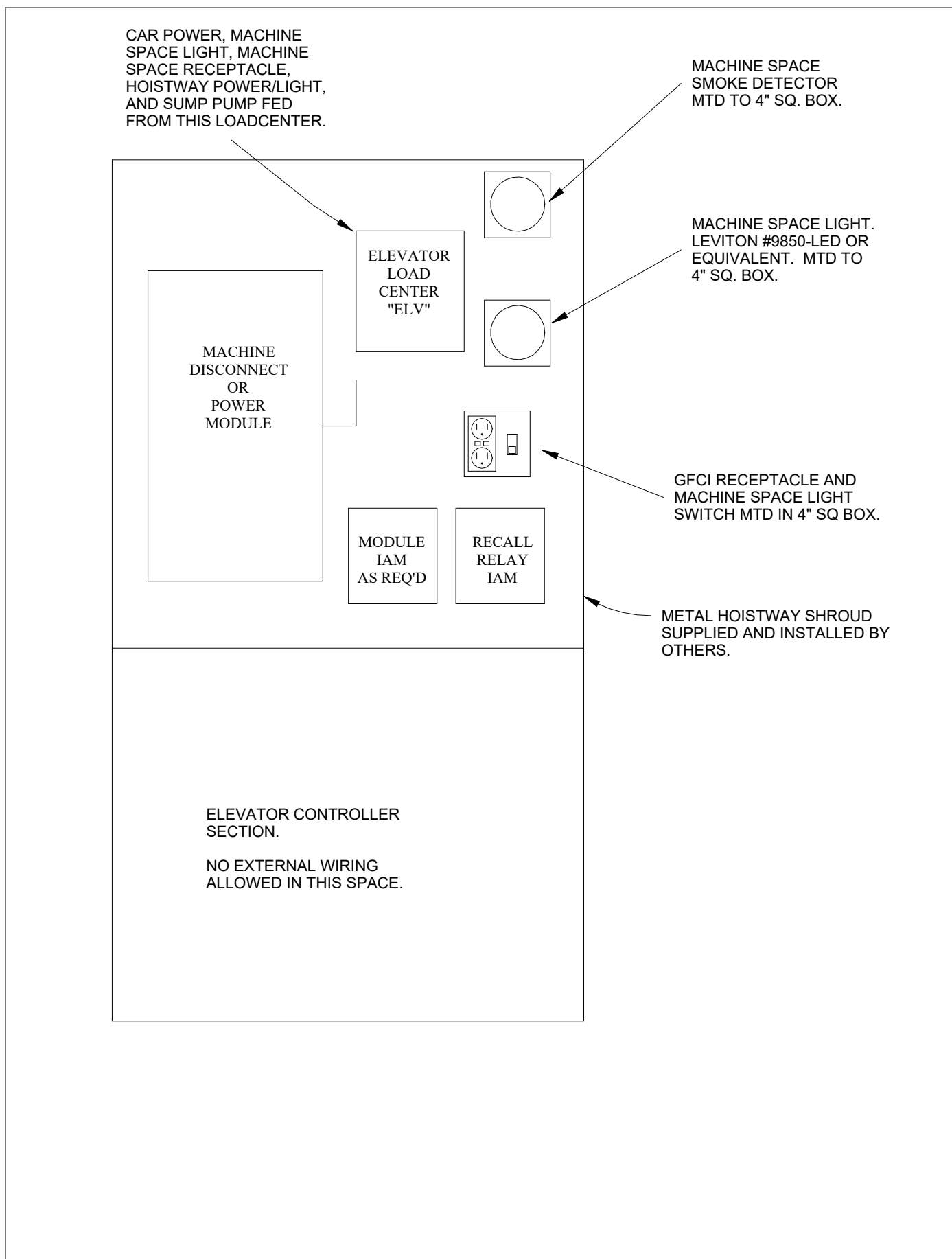
Panel: L1												
Volts: 120/208 Wye Mains Rating: 400 A				Phase: 3 Mains Type: MLO EATON POW-R-LINE SERIES				Wire: 4 Mounting: Surface				
Notes:												
DESCRIPTION	CKT BRK	CKT #	GFCI	A	B	C	GFCI	CKT #	CKT BRK	DESCRIPTION		
NORTH BSMT RECP	20	1		900	1200			2	1	20	BOILER PUMP	
NORTH BSMT RECP	20	1	3		900	600		4	1	20	BOILER 2	
NORTH BSMT RECP	20	1	5			720	1200	6	1	20	BOILER PUMP	
NORTH BSMT RECP	20	1	7	720	600			8	1	20	BOILER 1	
SOUTH BSMT RECP	20	1	9		900	1333		10	3	20	PUMP 1	
SOUTH BSMT RECP	20	1	11			1080	1333	12	--	--	--	
RANGE RECP	20	1	13	720	1333			14	--	--	--	
RANGE LANE	20	1	15		180	0		16	3	20	PUMP 2	
RANGE LANE	20	1	17			180	0	18	--	--	--	
RANGE LANE	20	1	19	180	0			20	--	--	--	
RANGE LANE	20	1	21		180	6667		22	3	100	AH-1	
RANGE SERVICE...	20	1	23			180	6667	24	--	--	--	
WATER HEATER	30	3	25	2000	6667			26	--	--	--	
WATER HEATER	--	--	27		2000	1275		28	1	20	STORAGE/MECH...	
WATER HEATER	--	--	29			2000	1205	30	1	20	HALL LIGHTS	
WATER HEATER	30	3	31	2000	660			X	32	1	20	SEWAGE EJECTOR
WATER HEATER	--	--	33		2000	0		X	34	1	20	HAND DRYER
WATER HEATER	--	--	35			2000	180	X	36	1	20	SUMP PUMP
DOMESTIC PUMP	20	3	37	1533	400			X	38	2	20	PARKING LOT LIGHT
DOMESTIC PUMP	--	--	39		1533	400			40	--	--	--
DOMESTIC PUMP	--	--	41			1533	400		42	2	20	PARKING LOT LIGHT
TRUCK FILL PUMP	70	3	43	6667	400				44	--	--	--
TRUCK FILL PUMP	--	--	45		6667	400			46	2	20	PARKING LOT LIGHT
TRUCK FILL PUMP	--	--	47			6667	400		48	--	--	--
PUMP 1 ALT	35	3	49	2100	600				50	1	20	BOILER 3
PUMP 1 ALT	--	--	51		2100	1200			52	1	20	BOILER PUMP
PUMP 2 ALT	--	--	53			2100	511		54	1	20	ARMORY LIGHTS
PUMP 2 ALT	35	3	55	2100	1200				56	1	20	RANGE LIGHTS
PUMP 2 ALT	--	--	57		2100	360			58	40		ELEVATOR PANEL
PUMP 2 ALT	--	--	59			2100	0		60	--	--	--
RANGE LIGHTS	20	1	61	1085	180				62	1	20	FIRE SUMP PUMP
SPARE	20	1	63		0	0			64	1	20	SPARE
SPARE	20	1	65			0	0		66	1	20	SPARE
SPARE	20	1	67	0	0	0			68	1	20	SPARE
SPARE	20	1	69			0	0		70	1	20	SPARE
SPARE	20	1	71			0	0		72	1	20	SPARE
SPARE	20	1	73	0	0	0			74	1	20	SPARE
SPARE	20	1	75		0	0			76	1	20	SPARE
SPARE	20	1	77			0	0		78	1	20	SPARE
SPARE	20	1	79	0	0	0			80	1	20	SPARE
SPARE	20	1	81		0	0			82	1	20	SPARE
SPARE	20	1	83			0	0		84	1	20	SPARE
Amps per Phase:				277 A	257 A	254 A						
LOAD	CONNECTED			DEMAND			ADJUSTED					
LIGHTING	5.3 kVA			125.00%			6.6 kVA					
RECEPTACLES	7.4 kVA			100.00%			7.4 kVA					
HVAC	79.4 kVA			100.00%			79.4 kVA					
KITCHEN												
OTHER	2.4 kVA			100.00%			2.4 kVA					
				Total kVA:			95.8 kVA					
				Total Amps:			265.9 A					



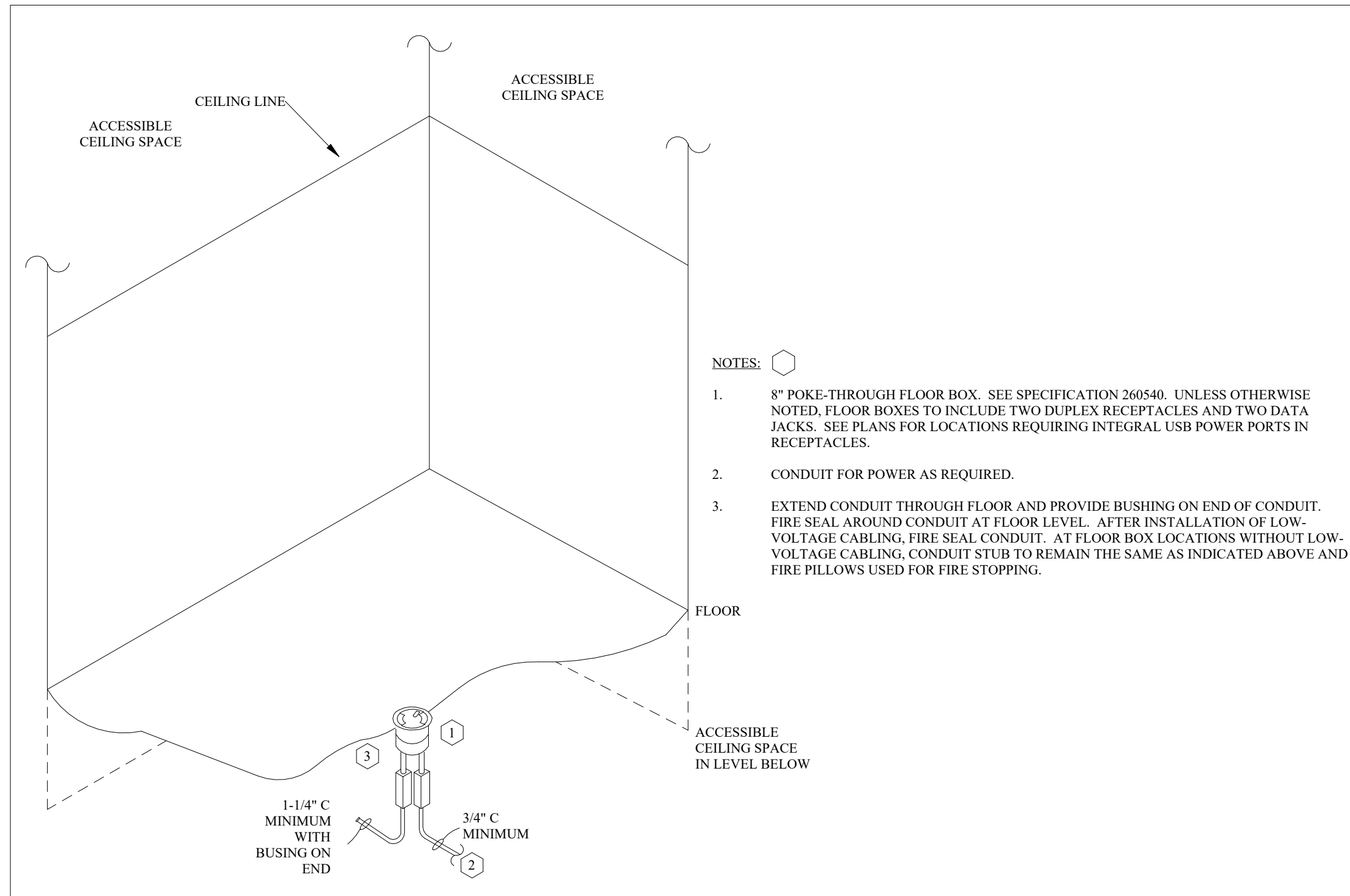
1
E304
NTS
MOTOR CONNECTION DETAIL



3
E304
NTS
VFD CONNECTION DETAIL



2
E304
NTS
MACHINE ROOMLESS ELEVATOR DETAIL

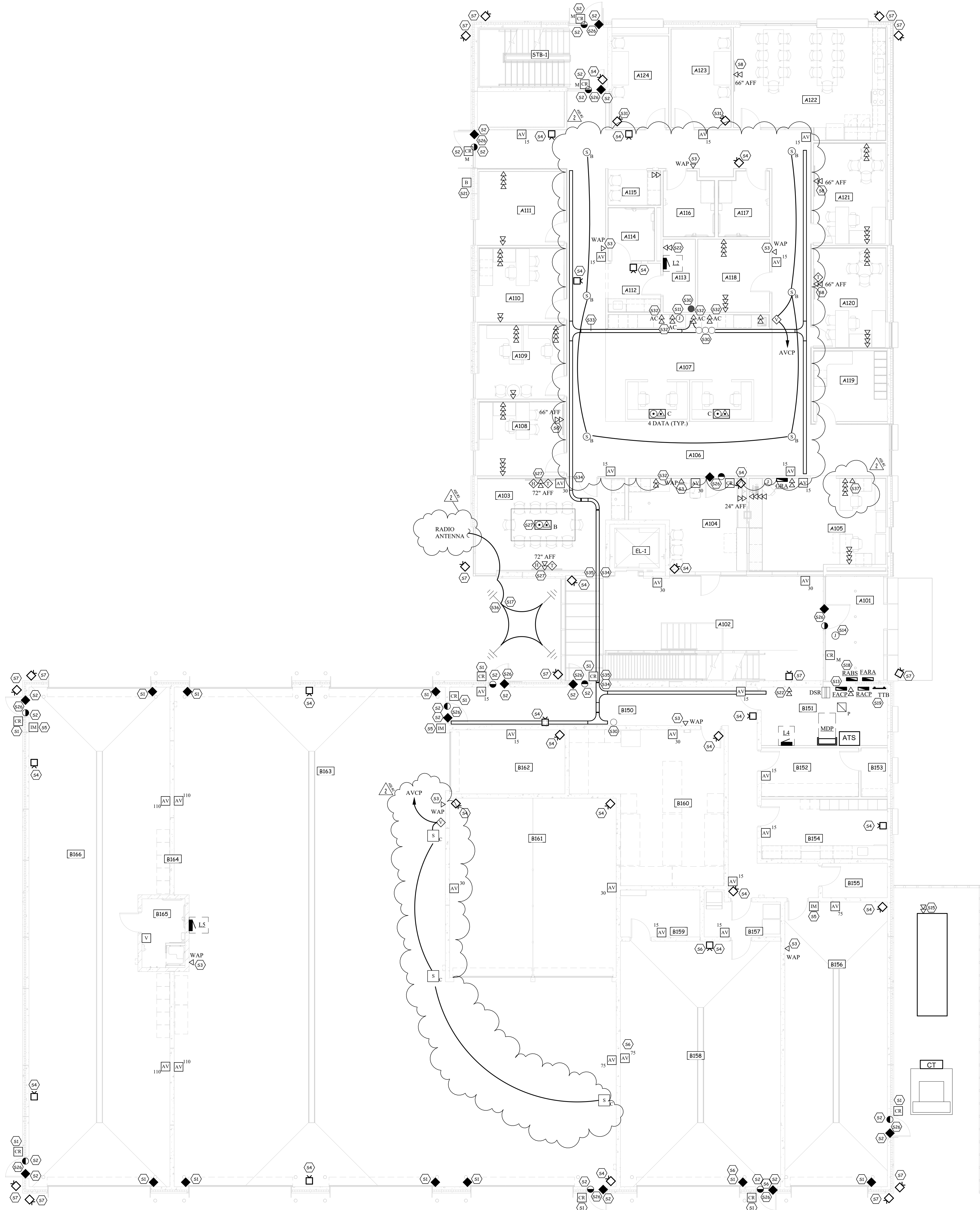


4
E304
NTS
POKE-THRU FLOOR BOX

MOTOR & EQUIPMENT SCHEDULE - MINOT										
DESIG.	EQUIPMENT SERVED	HP/AMPS	VOLT	PHASE	DISCONNECT (BY EC)	CONTROLLER (BY EC)	CONTROL INITIATING DEVICE			NOTE
							DEVICE	FURN	MTD	
AC-1	AIR COMPRESSOR	7.5	208 V	1	60/2 NEMA 3R FDS	NR	AUTOMATIC	-	-	VERIFY EXACT REQUIREMENTS OF OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION. PROVIDE DUCT DETECTION AS PER SPECIFICATION SECTION 28311 AND DETAIL 3/E403.
AH-1	AIR HANDLER	95 MCA	208 V	3	100/3 FDS	INTEGRAL	ATC	ATC	ATC	
B-1,2	BOILER	2 MCA	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	ATC	ATC	ATC	
B-3	BOILER	2 MCA	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	ATC	ATC	ATC	
CUH-1,2,3	CABINET UNIT HEATER	1/4	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	ATC	ATC	ATC	
DP-1	DOMESTIC PRESSURE PUMP	4	208 V	3	30/3 FDS	VFD BY ATC	ATC	ATC	ATC	
DP-2	TRUCK FILL PUMP	55.25 MCA	208 V	3	100/3 NEMA 3R FDS	VFD BY ATC	ATC	ATC	ATC	
EF-1	EXHAUST FAN	3	208 V	3	30/3 NEMA 3R FDS	INTEGRAL	ATC	ATC	ATC	
EF-2,5	EXHAUST FAN	1/4	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	ATC	ATC	ATC	
EF-3,4	EXHAUST FAN	3/4	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	ATC	ATC	ATC	
EP-1	SEWAGE PUMP	1/2	120 V	1	CORD & PLUG	CONTROLLER	FLOAT SWITCH	MC	MC	PROVIDE CONNECTION TO SUMP PUMP CONTROLLER PROVIDED BY OTHERS.
ERV-1,2	ENERGY RECOVERY UNIT	12.5 MCA	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	CONTINUOUS	ATC	ATC	
FC-1	FAN COIL UNIT	1/4	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	ATC	ATC	ATC	
FP-1	FIRE PUMP	30	208 V	3	INTEGRAL	NR	FIRE PUMP CONTROLLER	MC	EC	
FP-2	FIRE PUMP JOCKEY	2	208 V	3	30/3 FDS	NR	JOCKEY PUMP CONTROLLER	MC	EC	
HD-1 THRU 8	ELECTRIC HAND DRYER	950 W	120 V	1	N/R	N/R	AUTOMATIC	-	-	
HUH-1,2,3	HOT WATER UNIT HEATER	FRAC	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	ATC	ATC	ATC	
HVLS-1,4	CEILING FAN	2 MCA	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	SPEED CONTROLLER	MC	EC	INTERCONNECT FAN SHUTDOWN ON SPRINKLER SYSTEM ACTIVATION.
HVLS-2,3	CEILING FAN	12 MCA	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	SPEED CONTROLLER	MC	EC	
IR-1 THRU 8	RADIANT TUBE HEATER	FRAC	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	ATC	ATC	ATC	BASE BID ONLY.
MAU-1	MAKE UP AIR UNIT	1	208 V	3	30/3 NEMA 3R FDS	INTEGRAL	ATC	ATC	ATC	
ODO-1 THRU 9	OVERHEAD DOOR OPERATOR	1	120 V	1	20A 1-POLE TOGGLE	NR	PUSH BUTTON	GC	EC	
P-1,2	HYDRONIC PUMP	2	208 V	3	INTEGRAL TO VFD	VFD BY ATC	ATC	ATC	ATC	BID UNDER BASE BID ONLY. VFD SUPPLIED AND PROGRAMMED BY OTHERS. INSTALLED BY EC.
P-3,4	BOILER PUMP	1/2	120 V	1	INCLUDED WITH STARTER	TOGGLE OR MANUAL AS REQ'D	BOILER	MC	MC	
P-5	RECIRC PUMP	FRAC	120 V	1	CORD & PLUG	INTEGRAL	ATC	ATC	ATC	
P-6	RECIRC PUMP	FRAC	120 V	1	CORD & PLUG	INTEGRAL	ATC	ATC	ATC	
P-9	BOILER PUMP	1/2	120 V	1	INCLUDED WITH STARTER	TOGGLE OR MANUAL AS REQ'D	BOILER	MC	MC	
P-10,11	HYDRONIC PUMP	5	208 V	3	INTEGRAL TO VFD	VFD BY ATC	ATC	ATC	ATC	BID UNDER ALTERNATE 2 ONLY. VFD SUPPLIED AND PROGRAMMED BY OTHERS. INSTALLED BY EC.
P-12 THRU 17	RECIRC PUMP	FRAC	120 V	1	INCLUDED WITH STARTER	TOGGLE OR MANUAL AS REQ'D	ATC	ATC	ATC	BID UNDER ALTERNATE 2 ONLY.
PW-1	PRESSURE WASHER	10	208 V	3	60/3 NEMA 3R FDS	NR	AUTOMATIC	-	-	VERIFY EXACT REQUIREMENTS OF OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION.
RTU-1	ROOF TOP UNIT	213 MCA	208 V	3	400/3 NEMA 3R FDS	INTEGRAL	ATC	ATC	ATC	PROVIDE DUCT DETECTION AS PER SPECIFICATION SECTION 28311 AND DETAIL 3/E403.
RTU-2	ROOF TOP UNIT	81 MCA	208 V	3	200/3 NEMA 3R FDS	INTEGRAL	ATC	ATC	ATC	PROVIDE DUCT DETECTION AS PER SPECIFICATION SECTION 28311 AND DETAIL 3/E403.
RTU-3	ROOF TOP UNIT	25 MCA	208 V	3	60/3 NEMA 3R FDS	INTEGRAL	ATC	ATC	ATC	
RTU-4	ROOF TOP UNIT	28 MCA	208 V	3	60/3 NEMA 3R FDS	INTEGRAL	ATC	ATC	ATC	
SP-1,4	SUMP PUMP	1/2	120 V	1	CORD & PLUG	INTEGRAL	FLOAT SWITCH	MC	MC	
SP-2	SUMP PUMP	1/2	120 V	1	CORD & PLUG	CONTROLLER	FLOAT SWITCH	MC	MC	PROVIDE CONNECTION TO SUMP PUMP CONTROLLER PROVIDED BY OTHERS.
SS-1	SPLIT SYSTEM AC	7.6 MCA	208 V	1	30/2 NEMA 3R FDS	INTEGRAL	INTEGRAL	MC	ATC	
SS-1a	INDOOR SPLIT UNIT	NA	208 V	1	20A 3-POLE TOGGLE	NR	SS-1	-	-	
SS-2	SPLIT SYSTEM AC	7.6 MCA	208 V	1	30/2 FDS	INTEGRAL	INTEGRAL	MC	ATC	
SS-2a	INDOOR SPLIT UNIT	NA	208 V	1	20A 3-POLE TOGGLE	NR	SS-2	-	-	
UH-1 THRU 5	UNIT HEATER	1/3	120 V	1	20A 1-POLE TOGGLE	INTEGRAL	ATC	ATC	ATC	
VS-1	VACUUM SYSTEM	20 MCA	120 V	1	30/1 NEMA 3R FDS	NR	AUTOMATIC	-	-	VERIFY EXACT REQUIREMENTS OF OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION.
WH-1,2	WATER HEATER	6 KW	208 V	3	30/3 FDS	NR	INTEGRAL	MC	MC	
WH-3,4	WATER HEATER	5 MCA	120 V	1	20A 1-POLE TOGGLE	NR	INTEGRAL	MC	MC	

Room Schedule		
Number	Name	Area
A101	VESTIBULE	158 SF
A102	LOBBY	665 SF
A103	CONFERENCE ROOM	305 SF
A104	LOBBY	212 SF
A105	ADMIN	299 SF
A106	HALLWAY	1,250 SF
A107	PATROL WORKSTATIONS	432 SF
A108	DETECTIVE OFFICE	153 SF
A109	SARGENT SHARED OFFICE	153 SF
A110	TRUCK REG	153 SF
A111	WORKROOM	153 SF
A112	DT PROCESSING	62 SF
A113	CUSTODIAL	57 SF
A114	DRUG TESTING	59 SF
A115	INTOX.	45 SF
A116	RESTROOM	77 SF
A117	RESTROOM	70 SF
A118	EQUIP STORAGE	127 SF
A119	NOTIC / RECORD STORAGE	127 SF
A120	SHERIFF OFFICE	175 SF
A121	CHIEF DEPUTY OFFICE	179 SF
A122	BREAK ROOM	399 SF
A123	INTERVIEW	143 SF
A124	JUVENILE INTERVIEW	126 SF
B150	HALLWAY	460 SF
B151	ELECTRICAL	179 SF
B152	K-9 ROOM	115 SF
B153	DEA STORAGE	31 SF
B154	EVIDENCE PROCESSING	184 SF
B155	CUSTODIAL	54 SF
B156	EM BAY	711 SF
B157	LAUNDRY	71 SF
B158	WASH BAY	998 SF
B159	WASH BAY EQUIP	91 SF
B160	EVIDENCE STORAGE	473 SF
B161	EVIDENCE BAY	728 SF
B162	SM EVIDENCE	180 SF
B163	SHERIFF'S DEPARTMENT VEHICLES	2,439 SF
B164	RAPID DEPLOYMENT	1,688 SF
B165	RESTROOM	70 SF
B166	FIRE EQUIPMENT BAY	1,656 SF

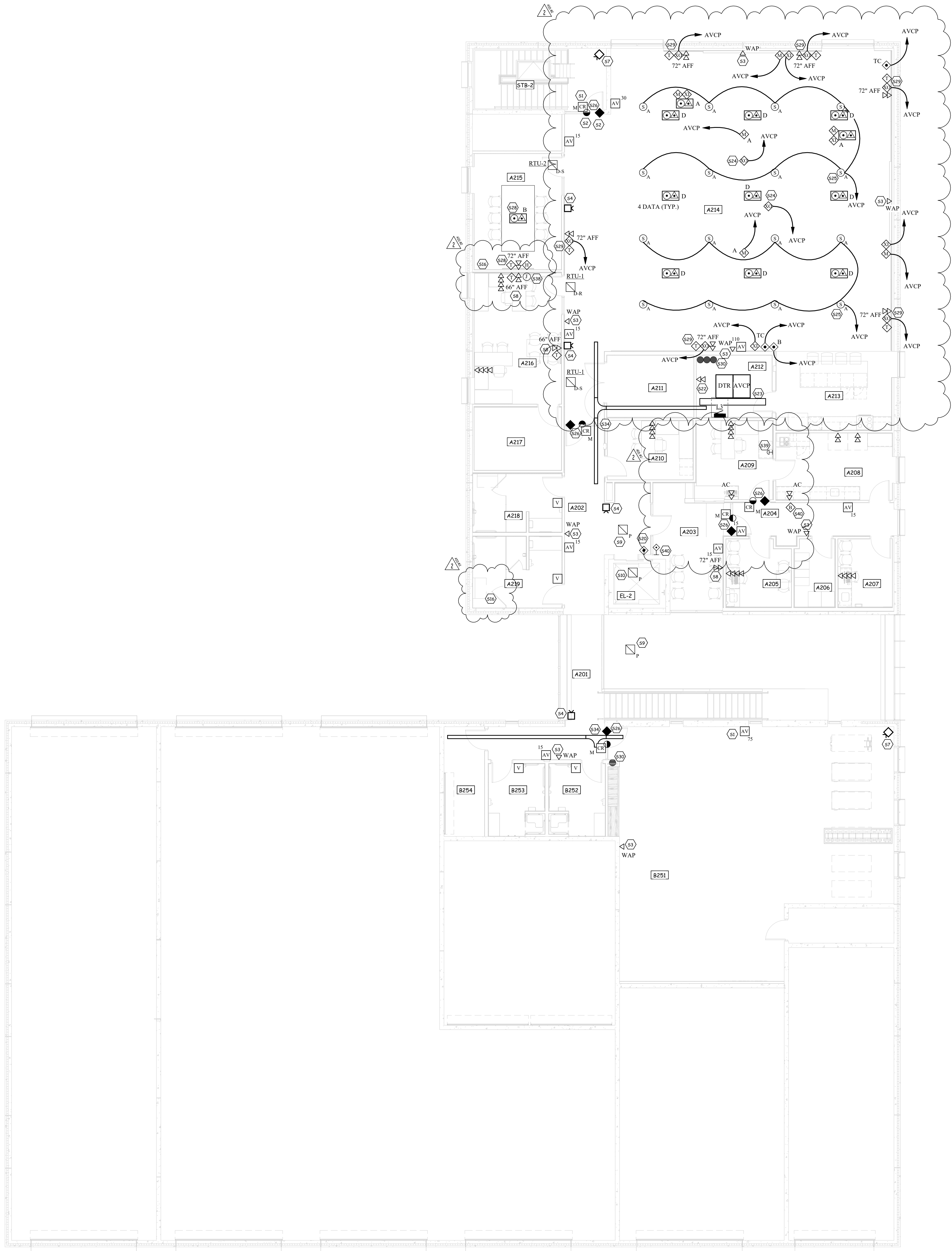
Keynote Legend	
S1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN DEPLOYMENT BAYS OR OTHER EXPOSED CEILINGS IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
S2	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED 3/4" CONDUIT FROM TOP OF DOOR OPENING STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN ROOMS WITH EXPOSED CEILING. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
S3	PROVIDE ONE CAT6A NETWORK DROP AT THIS LOCATION ABOVE ACCESSIBLE CEILING SPACE OR AT THE CEILING STRUCTURE. PROVIDE FIFTEEN (15) FOOT OF EXCESS SERVICE LOOP FOR WIRELESS ACCESS POINT. WIRELESS ACCESS POINT SUPPLIED BY OTHERS AND INSTALLED BY DIV 27. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S4	PROVIDE ONE NETWORK DROP AT THIS LOCATION. PROVIDE TEN (10) FOOT OF EXCESS SERVICE LOOP FOR SURVEILLANCE EQUIPMENT. SURVEILLANCE EQUIPMENT SUPPLIED BY OTHERS AND INSTALLED BY DIV 27. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S5	CONNECT FAN SHUTDOWN RELAYS SO THAT THE INDUSTRIAL FANS SHUTDOWN WITH SPRINKLER SYSTEM ACTIVATION.
S6	PROVIDE WP DEVICE IN WASHBAY AREA. ALL WIRING/RACEWAY IN THE WASH BAY MUST BE INSTALLED AS PER THE NEC FOR A WET LOCATION.
S7	PROVIDE ONE NETWORK DROP AT THIS LOCATION. PROVIDE ONE (1) FOOT OF EXCESS SERVICE LOOP FOR SURVEILLANCE EQUIPMENT SUPPLIED BY OTHERS AND INSTALLED BY DIV 27. PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN ROOMS WITH EXPOSED CEILINGS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
S8	PROVIDE WIREMOLD #EFSB2, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE F2.
S11	FIELD COORDINATE WITH RADIO INSTALLATION VENDOR TO CONNECT RADIO AUDIO OUTPUT TO COUNTER TOP UNIT. PROVIDE DEDICATED 1" CONDUIT BACK THE ANTENNA LOCATION SHOWN.
S13	FACE NETWORK CONNECTION. SEE SPECIFICATION 283111.
S14	PROVIDE AND INSTALL RELAYS AS REQUIRED TO INTERFACE ACCESS CONTROL SYSTEM WITH EXTERIOR DOOR HANDICAP OPERATOR. EXIT DOOR PUSHBUTTON RELAY SHALL AUTOMATICALLY TRIGGER ELECTRIFIED STRIKE. ENTRANCE DOOR BUTTON RELAY SHALL DISABLE OPERATOR UNLESS VALID CREDENTIALS ARE PRESENTED AFTER HOURS. DURING NORMAL BUSINESS HOURS ENTRANCE PUSHBUTTON WILL BE ALLOWED TO OPEN DOOR. VERIFY HOURS OF OPERATION WITH OWNER.
S15	PROVIDE AND INSTALL WATER BLOCKED CAT 6 CABLE BETWEEN GENERATOR AND DSR FOR REMOTE GENERATOR INFORMATION.
S17	PROVIDE AND INSTALL GROUND RING FOR LIGHTNING PROTECTION OF RADIO ANTENNAS. EXTEND CONDUCTOR TO UP TO ROOF MOUNTED ANTENNA MAST AT KEYNOTE S16. SEE KEYNOTE S16 FOR FURTHER DETAILS.
S18	SURFACE MOUNT RESCUE ASSISTIST CONTROL PANEL. SEE SPECIFICATION 275410. MOUNT ASSOCIATED POWER SUPPLY ABOVE CEILING. OBTAIN POWER FROM NEAREST RECEPTACLE CIRCUIT. SEE DETAIL 7/E403.
S19	MOUNT RESCUE ASSISTIST PHONE ACCESS KIT TO TTB. SEE SPECIFICATION 275410. PROVIDE LV WIRING TO KEYNOTE S18 CONTROL PANEL AS PER MANUFACTURER'S INSTRUCTIONS. OBTAIN POWER FROM NEAREST RECEPTACLE CIRCUIT.
S21	FIRE SPRINKLER BELL. SEE SPECIFICATION SECTION 283111.
S22	NETWORK DROPS FOR CACP.
S26	SEE DETAIL 6/E403 FOR CARD READER ROUGH-IN INSTALLATION. PROVIDE WIRING BACK TO JUNCTION BOX IN ACCESSIBLE CEILING SPACE FOR FINAL CONNECTIONS BY OWNER VENDOR.
S27	SEE DETAIL 1/E404
S30	4" CONDUIT FOR SYSTEMS/DATA CABLING BETWEEN FLOORS. QUANTITY AS SHOWN ON DRAWINGS. PROVIDE BUSHED CONDUIT ENDS AND FIRE SEAL AS REQUIRED AFTER ALL CABLE INSTALLATION.
S31	PROVIDE 1" CONDUIT ABOVE CEILING BACK TO ROOM A111 WITH PULL STRING FOR INSTALLATION OF RECORDING EQUIPMENT BY OTHERS.
S32	COORDINATE LOCATION IN CASEWORK WITH CASEWORK VENDOR. ADJUST HEIGHT AS REQUIRED AND NEATLY CUT CASEWORK AND EXTEND BOX INTO THE CABINET AS REQUIRED.
S33	6" WIDE CABLE TRAY TO BE BLACK WITH THREE SIDED BLACK INSERT. SEE SPECIFICATION 260536.
S34	REFER TO CODE STUDY PLANS FOR RATED WALLS AND PROVIDE FIRE BLOCKING PRODUCT AS REQUIRED. WHERE FIRE BLOCKING IS NOT REQUIRED PROVIDE INSULATION FOR SOUND DEADENING.
S35	PROVIDE 7" X 5" OPENING IN PRECAST FOR CABLE TRAY OR THREE (3) 4" CONDUITS FOR SYSTEMS CABLING.
S36	ANTENNA GROUND WIRE. PROVIDE #6 AWG BARE SOLID COPPER CONDUCTOR STRAPPED NEATLY TO BUILDING. SEE DETAIL 8/E403 FOR GROUND RING INSPECTION WELL.
S37	CAT 6 CABLE FROM THIS LOCATION TO THE RADIO BASE STATION SHOWN AT KEYNOTE S11.



1
E401
Systems Plan - Level 1
1/8" = 1'-0"

Room Schedule			
Number	Name	Area	
A102	LOBBY	665 SF	
A201	BRIDGE	205 SF	
A202	HALLWAY	244 SF	
A203	LOBBY	166 SF	
A204	HALLWAY	127 SF	
A205	EXAM	98 SF	
A206	STORAGE	62 SF	
A207	EXAM	85 SF	
A208	WORKROOM	180 SF	
A209	OFFICE	139 SF	
A210	CORNER	117 SF	
A211	STORAGE	124 SF	
A212	ELEC	108 SF	
A213	BREAK ROOM	209 SF	
A214	TRAINING ROOM / EOC	2,266 SF	
A215	UNIFIED COMMAND	234 SF	
A216	EM OFFICE	266 SF	
A217	EM STORAGE	127 SF	
A218	MEN	118 SF	
A219	WOMEN	144 SF	
B156	EM BAY	711 SF	
B158	WASH BAY	958 SF	
B163	SHERIFF'S DEPARTMENT VEHICLES	2,439 SF	
B164	RAPID DEPLOYMENT	1,688 SF	
B166	FIRE EQUIPMENT BAY	1,656 SF	
B251	FITNESS AREA	1,442 SF	
B252	RESTROOM	91 SF	
B253	RESTROOM	91 SF	
B254	STORAGE	102 SF	
B255	STORAGE	85 SF	

Keynote Legend	
S1	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN DEPLOYMENT BAYS OR OTHER EXPOSED CEILING IN ROOMS. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
S2	PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED 3/4" CONDUIT FROM TOP OF DOOR OPENING STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN ROOMS WITH EXPOSED CEILING. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
S3	PROVIDE ONE CAT6A NETWORK DROP AT THIS LOCATION ABOVE ACCESSIBLE CEILING SPACE OR AT THE CEILING STRUCTURE. PROVIDE FIFTEEN (15) FOOT OF EXCESS SERVICE LOOP FOR WIRELESS ACCESS POINT. WIRELESS ACCESS POINT SUPPLIED BY OTHERS AND INSTALLED BY DIV 27. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S4	PROVIDE ONE NETWORK DROP AT THIS LOCATION. PROVIDE TEN (10) FOOT OF EXCESS SERVICE LOOP FOR SURVEILLANCE EQUIPMENT. SURVEILLANCE EQUIPMENT SUPPLIED BY OTHERS AND INSTALLED BY DIV 27. PROVIDE PROPER J-HOOK SUPPORT AND CABLE TIE TO STRUCTURE AS REQUIRED. COORDINATE EXACT LOCATION AS REQUIRED.
S7	PROVIDE ONE NETWORK DROP AT THIS LOCATION. PROVIDE ONE (1) FOOT OF EXCESS SERVICE LOOP FOR SURVEILLANCE EQUIPMENT SUPPLIED BY OTHERS AND INSTALLED BY DIV 27. PRECAST CONCRETE SUPPLIER SHALL INSTALL REQUIRED OUTLET BOX FLUSH IN WALL WITH 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING SPACE OR NEAR ROOF STRUCTURE IN ROOMS WITH EXPOSED CEILING. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PRECAST SUPPLIER AND OTHER DIVISIONS FOR EXACT REQUIREMENTS AND LOCATIONS.
S8	PROVIDE WIREMOLD #EFS82, OR EQUIVALENT TWO COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE P2.
S9	ELEVATOR LOBBY SMOKE DETECTOR. SEE SPECIFICATION 262822.
S10	ELEVATOR SHAFT SMOKE DETECTOR. SEE SPECIFICATION SECTION 283111.
S16	PROVIDE AND INSTALL ANTENNA MAST AT THIS LOCATION FOR FUTURE ANTENNA CABLING. SD 1/6X3 FOR FURTHER DETAILS. ROUTE GROUND RING CONDUCTOR UP THROUGH WEATHER HEAD AND LEAVE 50FT COILED NEATLY ON ROOF FOR FUTURE CONNECTION BY OTHERS. CONFIRM LOCATION WITH RADIO SYSTEM INSTALLER AND POSITION AS REQUIRED FOR WELDING TO STRUCTURE AND ADDITIONAL BRACING.
S20	RESCUE ASSIST CALL STATION MOUNTED AT 42" AFF. SEE SPECIFICATION 278410. PROVIDE LV CABLE TO KEYNOTE S18 CONTROL PANEL IN VESTIBULE AS PER MANUFACTURER'S INSTRUCTIONS.
S22	NETWORK DROPS FOR CAP.
S23	CABLE RUNWAY ABOVE RACKS. EXTEND BETWEEN WALLS AS SHOWN. RUNWAY TO BE MOUNTED DIRECTLY ABOVE RACKS. ATTACH TOP OF RACKS TO RUNWAY FOR SUPPORT. SLEEVE WALLS AS REQUIRED FOR CABLE ROUTING TO CORRIDOR TRAY SYSTEMS.
S24	EC TO PROVIDE 2'X2' SUSPENDED CEILING PROJECTOR PLATE. CHIEF #CMS445. UTILIZE INCLUDED CABLE HANGERS TO SUPPORT PLATE FROM STRUCTURE AS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SINGLE-GANG PANDUIT NETWORK FACIPLATE WITH 'XO' JACK AND DUPLEX RECEPTACLE WITH 6' FLEX WHIP TO STRUCTURALLY MOUNTED J-BOX.
S25	MOUNT SPEAKERS TO THE SIDE OF THE BOTTOM MEMBER OF THE TRUSS. ROUTE SPEAKER WIRE ON TOP SIDE OF THE TRUSS MEMBER. TYPICAL FOR ALL SPEAKERS.
S26	SEE DETAIL 6/E403 FOR CARD READER ROUGH-IN INSTALLATION. PROVIDE WIRING BACK TO JUNCTION BOX IN ACCESSIBLE CEILING SPACE FOR FINAL CONNECTIONS BY OWNER VENDOR.
S28	SEE DETAIL 2/E404
S29	PROVIDE WIREMOLD #EFS84, OR EQUIVALENT FOUR COMPARTMENT RECESSES WALL BOX. MATCH LOCATIONS WITH NOTE P24. ONE COMPARTMENT DUPLEX RECP, ONE COMPARTMENT TWO DATA AND CATV, ONE COMPARTMENT 'XO', AND ONE COMPARTMENT WITH LEGRAND #WP1014WHV1 FOR FUTURE WITH 1" CONDUIT STUBBED TO ACCESSIBLE CEILING SPACE.
S30	4" CONDUIT FOR SYSTEMS/DATA CABLING BETWEEN FLOORS. QUANTITY AS SHOWN ON DRAWINGS. PROVIDE BUSHED CONDUIT ENDS AND FIRE SEAL AS REQUIRED AFTER ALL CABLE INSTALLATION.
S34	REFER TO CODE STUDY PLANS FOR RATED WALLS AND PROVIDE FIRE BLOCKING PRODUCT AS REQUIRED. WHERE FIRE BLOCKING IS NOT REQUIRED PROVIDE INSULATION FOR SOUND DEADENING.
S38	FIELD COORDINATE WITH RADIO INSTALLATION VENDOR TO CONNECT RADIO BASE STATION AT THIS LOCATION. PROVIDE DEDICATED 1" CONDUIT BACK THE ANTENNA LOCATION SHOWN.
S39	PROVIDE ROUGH-IN FOR PANIC BUTTONS ON THE UNDERSIDE OF DESK/CABINERY TO INTERCONNECT TO THE CONTROLLED ACCESS SYSTEM. COORDINATE LOCATION WITH CABINET INSTALLER OR FURNITURE PROVIDER. VERIFY LOCATION(S) WITH OWNER.
S40	DOOR BEAM AND BELL. POWER FROM NEAREST 120V GENERAL RECEPTACLE CIRCUIT.



1
E402
Systems Plan - Level 2
1/8" = 1'-0"



ADDENDUM

JLG 24146.01-5 Dunn County Public Safety Center

RE: addendum

Issued: November 4, 2025

ADDENDUM #: 01

NOTICE TO CONTRACTORS

This Addendum is prepared to supplement information presented in the Drawings and Project Manual dated October 21, 2025 for the above referenced project. All additions, changes, omissions and conditions listed herein shall become an integral part of the Contract Documents.

SPECIFICATIONS

1. 23 0993 – Sequence of Operations for HVAC Controls
 - Replace section in its entirety

APPROVED EQUALS

The following products have been approved for use on this project. All approved products must still meet all product specifications as listed in the product specification section.

Section	Material ID or description	Basis of Design	Approved Equal
23 5216 – Condensing Boilers	B-1, 2, 3	Lochinvar	Riello, Aerco
23 8300 – Radiant Heating	In Floor Tubing	Heat Link	Roth

DRAWINGS

1. M102 – PLUMBING PLANS
 - Provided notes 12 and 13 for concealed valve access panel and solenoid valve for WC-2
 - 1/M102:
 - Reconfigured WC-2 plumbing to add shutoff and solenoid control valves.
 - Renumbered S-1 and S-2 tags after removing single bowl break room sink
 - 2/M102:
 - Renumbered S-1 and S-2 tags after removing single bowl break room sink
2. M302 – MECHANICAL PLANS
 - 2/M302:
 - Provided return grille from hallway to ceiling plenum space
 - Shifted return duct south of hallway door
 - Provided motorized dampers on return ducts for smoke control in atrium space
3. M404 – MECHANICAL SCHEDULES
 - Replaced laundry sink LS-2 with black sink and provided trim selection.
 - Replaced S-1 and S-2 with ADA compliant models.
 - Replaced WC-2 with model Z5617-BWL
 - Replaced WC-2 trim with model Z6152 concealed flush valve

END OF ADDENDUM

SECTION 23 0993 - SEQUENCE OF OPERATIONS FOR HVAC CONTROLS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. This section defines the manner and method by which controls function. Requirements for each type of control system operation are specified. Equipment, devices, and system components required for control systems are specified in other sections.

1.02 RELATED REQUIREMENTS

- A. Section 23 0913 - Instrumentation and Control Devices for HVAC.
- B. Section 23 0923 - Direct-Digital Control System for HVAC.

1.03 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements for submittal procedures.
- B. Sequence of Operation Documentation: Submit written sequence of operation for entire HVAC system and each piece of equipment.
 - 1. State each sequence in small segments and give each segment a unique number for referencing in Functional Test procedures; provide a complete description regardless of the completeness and clarity of the sequences specified in Contract Documents.
 - 2. Include initial and recommended values for all adjustable settings, setpoints and parameters that are typically set or adjusted by operating staff; and any other control settings or fixed values, delays, etc. that will be useful during testing and operating the equipment.
 - 3. For packaged controlled equipment, include manufacturer's furnished sequence of operation amplified as required to describe the relationship between the packaged controls and the control system, indicating which points are adjustable control points and which points are only monitored.
- C. Control System Diagrams: Submit graphic schematic of the control system showing each control component and each component controlled, monitored, or enabled.
- D. Points List: Submit list of all control points indicating at least the following for each point.
 - 1. Name of controlled system.
 - 2. Point abbreviation.
 - 3. Point description; such as dry bulb temperature, airflow, etc.
 - 4. Display unit.
- E. Project Record Documents: Record actual locations of components and setpoints of controls, including changes to sequences made after submission of shop drawings.

1.04 ALARM NOMENCLATURE

- A. Level 1 Fault Alarm: Highest priority alarm. Unit shutdown until condition is gone and fault is manually cleared.
- B. Level 2 Problem Alarm: Unit operation is modified to compensate and alarm automatically clears when the condition is gone.
- C. Level 3 Warning Alarm: Lowest priority alarms. Alarm is indicated to alert operator of condition that needs attention.
- D. Binary Alarm: General alarm when alarm signal is received from equipment controller.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 AIR HANDLER

- A. AH-1: constant volume air handler with supply fan, pre-filter and filter stations. Unit provides required airflow and filtration for gun range.
 - 1. Supply fan:
 - a. Run fan continuously during occupied hours. Provide physical on/off control with lighted switches for user activation.
 - 2. Filters: Measure differential pressure over filters and alarm on pressure increase.
- B. Display: For each air handler:
 - 1. Actual temperatures for supply air.
 - 2. Occupied status.
 - 3. Supply fan status.
 - 4. Return fan status and speed.
 - 5. DX cooling stages or percent capacity.
 - 6. Energy wheel status.
 - 7. Filters Normal/Dirty status.
 - 8. Alarms.
 - a. Level 2: Supply fan fail.
 - b. Level 2: Supply air temperature 10 degree F from setpoint.
 - c. Level 3: Supply or return fan in Hand operation.
 - d. Level 3: Dirty filters.
 - 9. BAS system graphic.

3.02 AIR TERMINAL UNITS (VAV'S)

- A. Single-duct, Variable Volume:
 - 1. Cooling Only:
 - a. On a rise in space temperature, the damper will modulate to provide maximum airflow.
 - b. As space temperature decreases, the damper will modulate down to its minimum airflow.
 - 2. Cooling with Reheat:
 - a. On a rise in space temperature above the cooling set-point, the unit modulates to its maximum airflow.
 - b. As the space temperature falls below the cooling set-point, the unit modulates to its minimum airflow.
 - c. As the space temperature continues to fall to the heating set-point, the terminal modulates to its heating minimum airflow. At this point, the heat will be staged on as follows:
 - 1) Heating valve shall open to meet heating discharge air setpoint.
 - 2) Unit shall modulate to its heating maximum airflow while maintaining heating discharge air setpoint.
- B. Display:
 - 1. Zone temperature: actual and set point.
 - 2. Discharge air temperature: actual and set point.
 - 3. Airflow: actual and setpoint.
 - 4. Occupied status.

5. Control-valve positions as percent open.
6. Damper positions as percent open.
7. Alarms.
 - a. Level 2: Zone temperature 5°F outside of setpoint.
8. BAS system graphic.

3.03 BOILERS

- A. Description: Hydronic boilers with factory controls; boiler circulator pumps. Water temperature setpoints set by ATC.
 1. Boiler controller shall make all decisions for modulating boiler heating output, cascading boilers, and operating boiler circulators.
 2. Provide communication wiring between boiler controllers.
 3. Provide low voltage wiring between boiler controllers and factory provided sensors as required.
 4. Provide wiring between boiler controller and boiler circulator pumps.
 5. Provide boiler emergency kill switch at each boiler room exit.
 6. Provide CO detector near primary boiler room exit.
 7. Monitor low water level alarm.
- B. Heating supply water temperature reset:
 1. Adjust heating water setpoint at maximum 185 degrees F at outdoor temperature of 0 degrees F, and minimum 120 degrees F at outdoor temperature of 45 degrees F, with straight line relationship between.
- C. Display:
 1. Outside air temperature.
 2. System hot water supply temperature: actual and setpoint.
 3. System hot water return temperature.
 4. Boiler inlet and outlet temperatures per Drawings.
 5. Boiler operation: command and proof.
 6. Boiler circulator pump: command and proof.
 7. CO levels.
 8. Alarms.
 - a. Binary: Boiler lockout.
 - b. Level 1: Emergency stop activated. Shut down boilers.
 - c. Level 1: Low water level alarm. Shut down boilers.
 - d. Level 2: Building power failure.
 - e. Level 2: CO levels above 100 ppm.
 - f. Level 2: Heating supply water 15 degrees F below setpoint.
 - g. Level 2: Boiler circulator fail.
 9. BAS system graphics.

3.04 CABINET HEATERS

- A. Hydronic heat:
 1. Cycle fan and open control valve to maintain zone temperature.
- B. Display:
 1. Zone temp: actual and set point.
 2. Control valve position.
 3. Fan operation status.

4. Alarms.
 - a. Level 2: Zone temperature 5 degrees F from setpoint.
5. BAS system graphic.

3.05 ENERGY RECOVERY UNIT

- A. Description: Unit is air-to-air energy recovery with supply fan and exhaust fan. Energy recovery unit shall be equipped with factory controls and low voltage terminal strip.
- B. Supply and Exhaust Fan:
 1. Office areas: Run fans continuously during occupied hours.
 2. Shop areas: Run fans continuously.
- C. Dampers: Open intake and exhaust dampers when fans are running.
- D. Display:
 1. Temperatures: supply air, return air, exhaust air, outside air.
 2. Fan command and verification.
 3. Filter pressure drop.
 4. Alarms:
 - a. Level 2: Fans not proven.
 - b. Level 3: Filters dirty.
 5. BAS system graphic.

3.06 FANS

- A. Toilet room exhaust:
 1. Run when toilet room lights are on, stop when toilet room lights are off.
- B. CO Gas Control: Start fan(s) and open damper(s) when CO is above 50 PPM.
 1. Applicable equipment: Shop fans and gravity ventilators.
- C. NO2 Gas Control: Start fan(s) and open damper(s) when CO is above 5 PPM.
 1. Applicable equipment: Shop fans and gravity ventilators.
- D. Humidity Control: Start fan(s) and start MAU when relative humidity is above 60%.
 1. Applicable equipment: Wash bay exhaust fan.
 2. Related sequence: Make-Up Air Units paragraph.
- E. Display:
 1. CO levels in PPM.
 2. NO2 levels in PPM.
 3. Zone relative humidity level in percentage.
 4. Fan(s) status and speed as applicable.
 5. Damper(s) positions.
 6. Alarms.
 - a. Level 1: CO above 35 PPM
 - b. Level 1: NO2 above 2 PPM
 - c. Level 1: Humidity 10% above setpoint.
 - d. Level 2: CO above 100 PPM.
 - e. Level 2: NO2 above 6 PPM.
 - f. Level 2: Fan fail to run.
 7. BAS system graphic.

3.07 FAN COIL UNITS

- A. Heating only units:
 - 1. Supply fan:
 - a. Variable volume: Increase fan speed as zone temperature rises above cooling setpoint or falls below heating setpoint.
 - b. Constant volume: Cycle fan as zone temperature rises above cooling setpoint or falls below heating setpoint.
 - c. Fan on continuously during occupied hours and cycle on during unoccupied hours.
 - 2. Hydronic heating coil: Modulate control valve to maintain space air temperature setpoint.
- B. Display:
 - 1. Zone temperature: actual and set point.
 - 2. Discharge air temperature: actual and set point.
 - 3. Control-valve positions as percent open.
 - 4. Fan operation status.
 - 5. Alarms:
 - a. Level 2: Zone temp 5°F below setpoint.
 - 6. BAS system graphic.

3.08 HEAT TRACE CABLE

- A. Rain leader heat trace: Factory controller.
 - 1. Obtain ambient temperature setpoints from manufacturer for heat trace activation.
 - 2. Monitor outdoor air temperature and heat trace operation.
- B. Display:
 - 1. Outdoor air temperature.
 - 2. Heat trace activation setpoint.
 - 3. Alarm:
 - a. Level 1: Outdoor air temperature is 5 degrees F beyond setpoint and heat trace is not active.
 - 4. BAS system graphic.

3.09 HEATING COILS

- A. Hydronic heating coils: Open control valve to maintain zone heating temperature setpoint. Provide night setback.
- B. Display:
 - 1. Zone temperature: actual and set point.
 - 2. Discharge air temperature: actual and set point.
 - 3. Control-valve positions as percent open.
 - 4. Alarms:
 - a. Level 2: Zone temperature 5°F below setpoint.
 - b. Level 2: Discharge temperature 10°F below setpoint.
 - 5. BAS system graphic.

3.10 HYDRONIC WATER SYSTEM

- A. Monitor system pressure at system expansion tank.
- B. Provide command to open all control valves in system to facilitate test and balance procedure.
- C. Display:
 - 1. System pressure.

2. Valve position override status.
3. Alarms:
 - a. Level 1: System pressure below 1 psi. Shut down boilers, chillers, pumps, and heat pumps as applicable.
 - b. Level 2: System pressure below 5 psi.
4. BAS system graphic.

3.11 IR TUBULAR HEATERS

- A. Wall-mounted temperature sensor maintains constant space temperature by activating gas-fired burner.
 1. Stage heating for multi-stage units.
- B. Display:
 1. Zone temperature: actual and set point.
 2. Burner operation status.
 3. Alarms:
 - a. Level 2: Zone temp 5°F below setpoint.
 4. BAS system graphic.

3.12 MAKE-UP AIR UNITS

- A. Constant Volume, 100% outside air: MAU-1
 1. Supply Fan: Start when exhaust fan(s) are active.
 - a. Applicable fans: Wash bay exhaust fan.
 2. Furnace: Modulate to maintain discharge air setpoint.
- B. Display: For each MAU as applicable.
 1. Fan status and speed.
 2. Furnace status and output
 3. Damper positions.
 4. Dirty filter status.
 5. Alarms
 - a. Level 1: Discharge air temperature below freezing. Shut down unit.
 - b. Level 2: Discharge air temperature 10 degrees F below setpoint.
 - c. Level 2: Fan or furnace fail.
 - d. Level 3: Dirty filters.
 6. BAS system graphic.

3.13 PUMPS

- A. Hot water system pumps: Lead/lag operation, variable speed.
 1. Equipment: P-1, P-2 under base bid; P-3 under alternate bid.
 - a. Provide VFD's for each pump.
 2. Set VFD maximum/minimum speeds based on test and balance results.
 3. Alternate lead/lag pump on monthly basis or when lead pump fails.
 4. Cascade pumps and modulate pump speed to maintain differential pressure setpoint.
 - a. Locate differential pressure sensor where hydronic piping enters garage area from office.
- B. Domestic hot water recirculation pump: constant speed.
 1. Activate pump to maintain recirculation temperature of 120 degrees F.
 - a. Applicable equipment: P-10
 2. Lock out pump during unoccupied hours.

- C. Display: For each set of pumps.
 - 1. Outside air temperature.
 - 2. Domestic hot water recirculation temperature.
 - 3. Lead/Lag status.
 - 4. Pump proven flow status.
 - 5. Pump speed as percentage of minimum/maximum speed set by test and balance.
 - 6. Differential pressure: actual and setpoint.
 - 7. Alarms.
 - a. Level 1: System pressure below 3 psi.
 - 1) Shut down pumps and equipment served by system as required to prevent equipment damage.
 - b. Level 2: Pump not proven on.
 - c. Level 2: Heat pump system temperature 10 degrees F outside temperature range.
 - d. Level 3: Differential pressure 5 psi from setpoint.
 - e. Level 3: Domestic hot water pump runtime greater than 2 hours.
 - 8. BAS system graphic.

3.14 RADIANT FLOOR HEATING

- A. System consists of hydronic manifold, circulation pump, and control valve.
 - 1. Floor heating is under alternate bid.
 - 2. Provide floor temperature sensor installed in conduit.
- B. Pump: Start pump to maintain zone temperature setpoint.
 - 1. Limit concrete temperature to maximum of 85 degrees F.
- C. Control valve: Modulate to maintain supply water temperature to maximum of 120 degrees F.
- D. Display:
 - 1. Concrete temperature.
 - 2. Zone temperature.
 - 3. Control valve position as percent open.
 - 4. Pump command status.
 - 5. HWS temperatures.
 - 6. Alarms:
 - a. Level 2: Zone temp 10°F below setpoint.
 - 7. BAS system graphic.

3.15 RADIATION AND CONVECTORS

- A. Heating unit: Open control valve to maintain zone heating temperature.
 - 1. Close valve if zone goes into cooling mode.
- B. Display:
 - 1. Zone temperature: actual and set point.
 - 2. Control-valve positions as percent open.
 - 3. Alarms:
 - a. Level 2: Zone temp 5°F below setpoint.
 - 4. BAS system graphic.

3.16 ROOFTOP UNITS, OFFICE

- A. Description: Packaged rooftop air conditioner with heat wheel, economizer, supply and exhaust fan.

- B. Duct static pressure setpoint reset: Adjust at a frequency of once every 5 minutes.
 - 1. Set maximum duct static based on Drawings schedule.
 - 2. Decrease duct static pressure setpoint so that the VAV damper with the greatest demand is not less than 80% open.
 - 3. Increase duct static pressure setpoint if any VAV damper is at 100% open.
- C. Supply air temperature setpoint reset:
 - 1. Normal operation during occupied hours: Set to 55 degrees F.
 - 2. Linearly increase setpoint as return air temperature drops below 75 degrees F.
- D. Supply fan:
 - 1. Run fan continuously during occupied hours.
 - 2. Modulate fan to maintain duct static pressure setpoint.
 - 3. Shut off fan on high static pressure alarm.
- E. Exhaust fan: Run and modulate speed to match supply fan airflow.
- F. Energy wheel:
 - 1. Normal operation: run wheel when supply fan is running.
 - 2. Outside temperature between 50 degree F and 70 degree F: stop wheel.
 - 3. Measure differential pressure over wheel.
- G. Bypass damper: wheel frost control.
 - 1. When outside air temperatures are below 5 degrees F and the differential pressure over the wheel increases: Modulate damper to keep exhaust air temperature above 25 degrees F.
- H. Cooling coil, DX: Modulate or stage condensing unit to maintain discharge air temperature setpoint.
 - 1. Lock out cooling when outside air temperature is below 55 degrees F.
- I. Mixing box:
 - 1. Unoccupied hours: Set return damper to 100% open and outside air damper to 0% open.
 - 2. Occupied hours: Open outside air damper to minimum position set by test and balance for ventilation.
 - 3. Economizer mode: When outside air is below 55 degrees F, modulate return and outside air dampers to deliver 55 degree F supply air.
 - a. Lock out mechanical cooling during economizer mode.
 - 4. Freeze Protection: If freezing temperatures are detected, close outside air damper and full open return air damper.
- J. Filters: Measure differential pressure over filters and alarm on pressure increase.
- K. Display:
 - 1. Occupied/unoccupied mode.
 - 2. Ventilation status.
 - 3. Actual temperatures for supply air.
 - 4. Setpoint temperatures for supply air.
 - 5. Duct pressure setpoint and actual.
 - 6. Supply fan status and speed.
 - 7. Return fan status and speed.
 - 8. DX cooling stages or percent capacity.
 - 9. Energy wheel status.
 - 10. Damper positions as percent open.
 - 11. Filters Normal/Dirty status.

12. Critical zone VAV for pressure zone optimization.
13. Alarm.
 - a. Level 1: Discharge temperature is below 35°F. Shut down unit.
 - b. Binary: VFD fault.
 - c. Binary: Alarms from air handler controller.
 - d. Level 1: High static pressure trip.
 - e. Level 2: Freezestat trip.
 - f. Level 2: Supply fan fail.
 - g. Level 2: Return fan fail.
 - h. Level 2: Supply air temperature 10 degree F from setpoint.
 - i. Level 3: Supply or return fan in Hand operation.
 - j. Level 3: Dirty filters.
 - k. Level 3: Energy wheel frosted over.
14. BAS graphic.

3.17 ROOFTOP UNITS, FIRING RANGE

- A. Description: Packaged rooftop air conditioner with heating. Unit supplies fresh air to firing range air handler. System includes:
 1. Reheat coil in ductwork.
 2. Exhaust fan mounted on roof.
- B. Supply air temperature setpoint:
 1. Adjust RTU temperature setpoint to maintain a supply temperature of 70 degrees F at the firing range air handler.
- C. Supply fan:
 1. Run fan continuously when firing range is occupied. Provide physical on/off control with lighted switches for user activation.
- D. Exhaust fan:
 1. Run fan when RTU supply fan is running.
- E. Cooling coil, DX: Modulate or stage condensing unit to maintain discharge air temperature setpoint.
 1. Lock out cooling when outside air temperature is below 55 degrees F.
- F. Gas furnace: Stage furnace to maintain discharge air temperature setpoint.
- G. Filters: Measure differential pressure over filters and alarm on pressure increase.
- H. Display:
 1. Occupied/unoccupied mode.
 2. Actual temperatures for supply air.
 3. Setpoint temperatures for supply air.
 4. Supply fan status.
 5. Exhaust fan status.
 6. DX cooling stages or percent capacity.
 7. Furnace stages active.
 8. Filters Normal/Dirty status.
 9. Alarm.
 - a. Level 2: Supply fan fail.
 - b. Level 2: Exhaust fan fail.
 - c. Level 2: Supply air temperature 10 degree F from setpoint.

- d. Level 3: Supply or return fan in Hand operation.
- e. Level 3: Dirty filters.
- 10. BAS graphic.

3.18 SMOKE CONTROL, ATRIUM

- A. Provide smoke control for entry Atrium during smoke events.
 - 1. Provide connection to fire alarm panel for smoke event signals.
- B. Smoke detected in office building: Pressurize atrium.
 - 1. Close all VAV dampers leading to offices.
 - 2. Close motorized damper for atrium return air on second level.
 - 3. Open atrium VAV dampers.
 - 4. Set RTU-1 to economizer mode so all return air is exhausted, and supply air is 100% OA.
- C. Smoke detected in atrium: Shut down RTU-1.

3.19 SUMP PUMP

- A. Description: Sump pump with factory controls.
- B. Provide proof of flow on sump pumps.
- C. Monitor sump pump controller high water alarm.
- D. Display:
 - 1. Realtime meter of pump run/down time in hours.
 - 2. Pump run time of last start/stop cycle, in hours.
 - 3. Pump downtime time from last start/stop cycle in hours.
 - 4. Alarms:
 - a. Level 2: High water alarm.
 - b. Level 2: Pump fail.
 - 5. BAS system graphic.

3.20 TEMPERATURE MONITORING

- A. Electrical room, upper level:
 - 1. Monitor Split AC unit alarm and monitor condensate overflow.
 - 2. Monitor room temperature. Activate alarm if temperature rises above 85 degrees F.
- B. Display:
 - 1. Room temperature.
 - 2. Alarm:
 - a. Level 2: Temperature above setpoint.
 - b. Level 2: Condensate overflow.
 - 3. BAS system graphic.

3.21 UNIT HEATERS

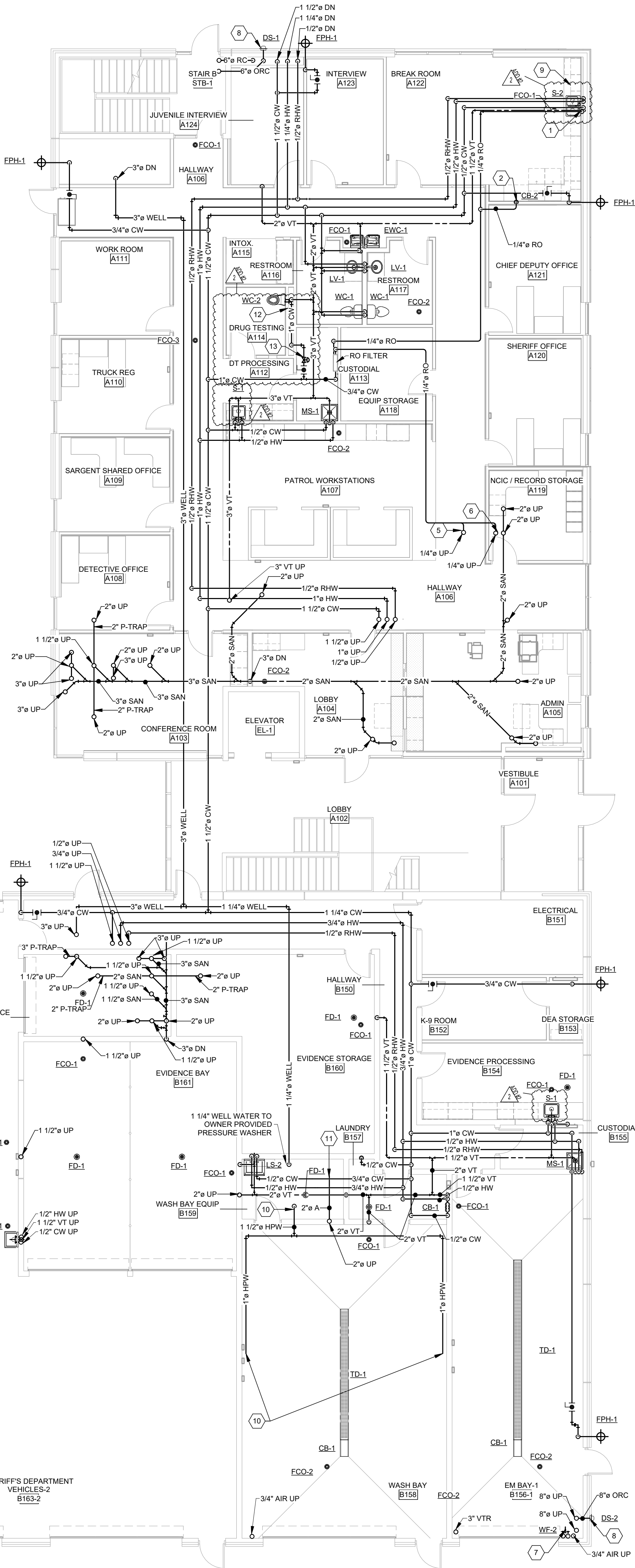
- A. Gas-fired heat exchanger with single speed fan: Start fan and activate furnace on call for heat.
- B. Display:
 - 1. Zone temperature: actual and set point.
 - 2. Control-valve positions as percent open.
 - 3. Fan operation status.
 - 4. Alarms:
 - a. Level 2: Zone temp 5°F below setpoint.

5. BAS system graphic.

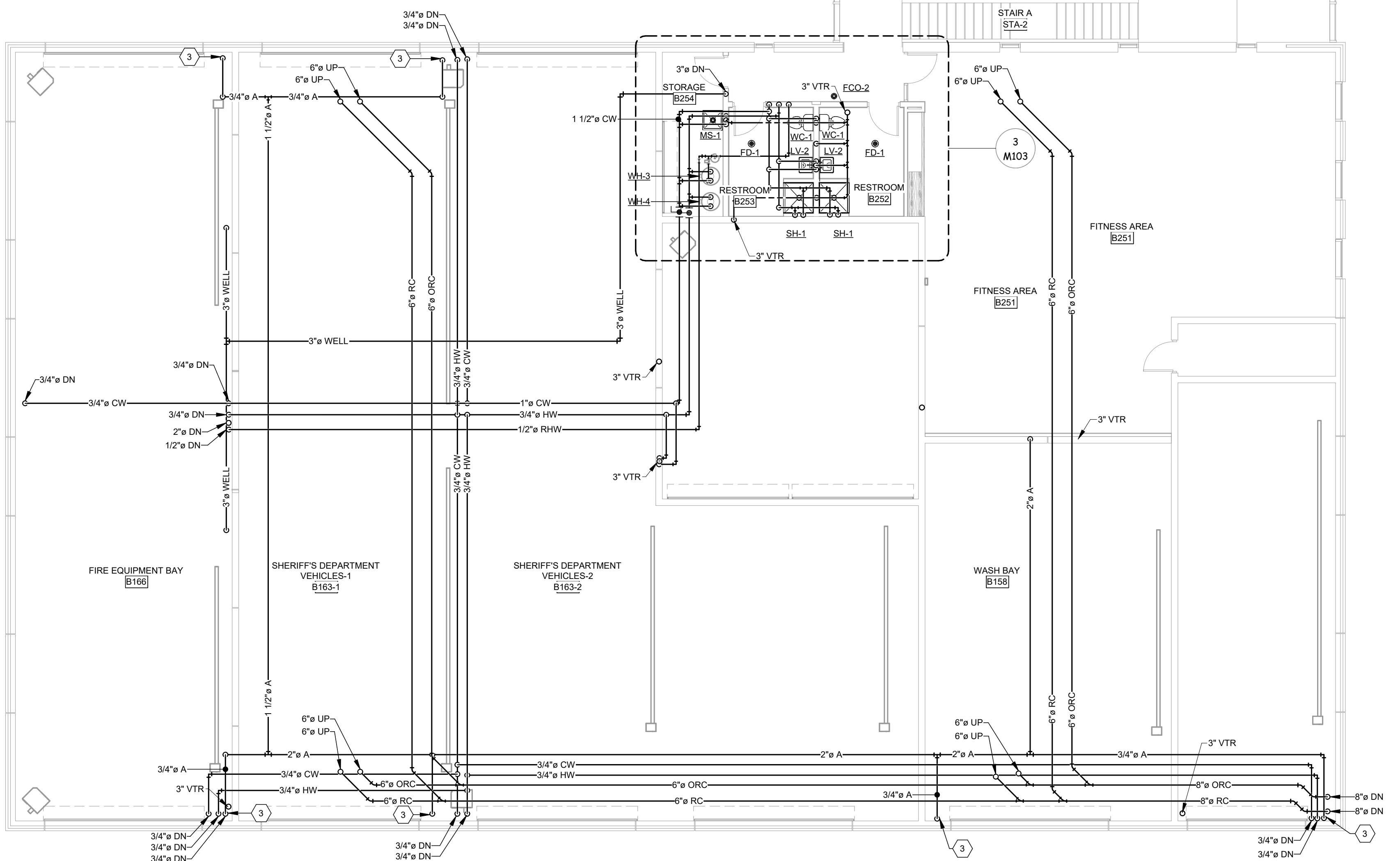
END OF SECTION

PLUMBING FIXTURE CONNECTIONS			
FIXTURE	WASTE	VENT	SUPPLY
WATER CLOSETS (TANK)	3"	2"	1/2"
WATER CLOSETS (FLUSH VALVE)	3"	2"	1"
URINALS	2"	1-1/2"	3/4"
LAVATORIES (SINGLE)	1-1/2"	1-1/2"	1/2"
LAVATORIES (MULTI-STATION)	2"	1-1/2"	3/4"
SINKS	2"	1-1/2"	1/2"
SERVICE/MOP SINKS	3"	1-1/2"	3/4"
HOSE BIBBS/WALL FAUCETS	N/A	N/A	3/4"
ELECTRIC WATER COOLERS	1-1/2"	1-1/2"	1/2"
SHOWER	2"	1-1/2"	1/2"
BATH OR BATH/SHOWER	2"	1-1/2"	1/2"
EMERGENCY EYE/FACE WASH	2"	1-1/2"	1/2"
EMERGENCY SHOWER	2"	1-1/2"	1-1/4"

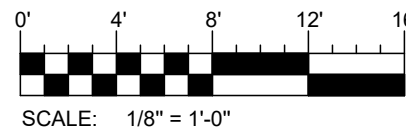
KEYNOTE LEGEND	
1	M.C. SHALL PROVIDE RO FAUCET WITH HAND SINK
2	CONNECT RO WATER TO REFRIGERATOR ICE MAKER
3	3/4" AIR PIPING DOWN TO SHOP AIR CONNECTIONS. SEE AIR DROP DETAIL 15M402 FOR PIPING DETAILS
4	PRESSURE GAUGE AND SENSOR FOR CONTROLLING DOMESTIC PRESSURE PUMP
5	1/4" RO WATER UP TO REFRIGERATOR ICE MAKER
6	1/4" RO WATER UP TO BREAK ROOM SINK
7	3/4" DOMESTIC CW AND HW DOWN TO WALL FAUCET WF-2 48" ABOVE FINISHED FLOOR. SEE WALL FAUCET DETAIL 13M402 FOR PIPING DETAILS
8	PROVIDE MINIMUM OF 8" HEAT TRACE IN VERTICAL RAIN PIPING. EXTEND HEAT TRACE TO DOWNSPOUT. PROVIDE CONTROLLER WITH WATER AND TEMPERATURE SENSOR
9	PROVIDE SUPPLY AND DRAIN CONNECTIONS TO UNDER COUNTER DISHWASHER
10	M.C. TO PROVIDE STAINLESS STEEL PIPING FROM WASHER TO REEL LOCATIONS. REELS AND HOT PRESSURE WASHER BY OWNER VENDOR
11	M.C. SHALL INSTALL OWNER PROVIDED AIR COMPRESSOR AND AIR DRYER. ROUTE 2" AIR LINE TO SHOP
12	PROVIDE 12X12 ACCESS PANEL FOR CONCEALED VALVE ACCESS. COORDINATE ACCESS PANEL TO MATCH WALL FINISH
13	PROVIDE 120V SOLENOID VALVE ON CW LINE FEEDING WC-2



1
M102
PLUMBING PLAN - LEVEL 1
1/8" = 1'-0"



2
M102
PLUMBING PLAN - LEVEL 2
1/8" = 1'-0"



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NO.	DESCRIPTION	DATE
1	Addendum #1	11/04/25
2	Addendum #2	11/07/25

DUNN COUNTY
PUBLIC SAFETY CENTER
MANNING, ND

DATE
10/21/25

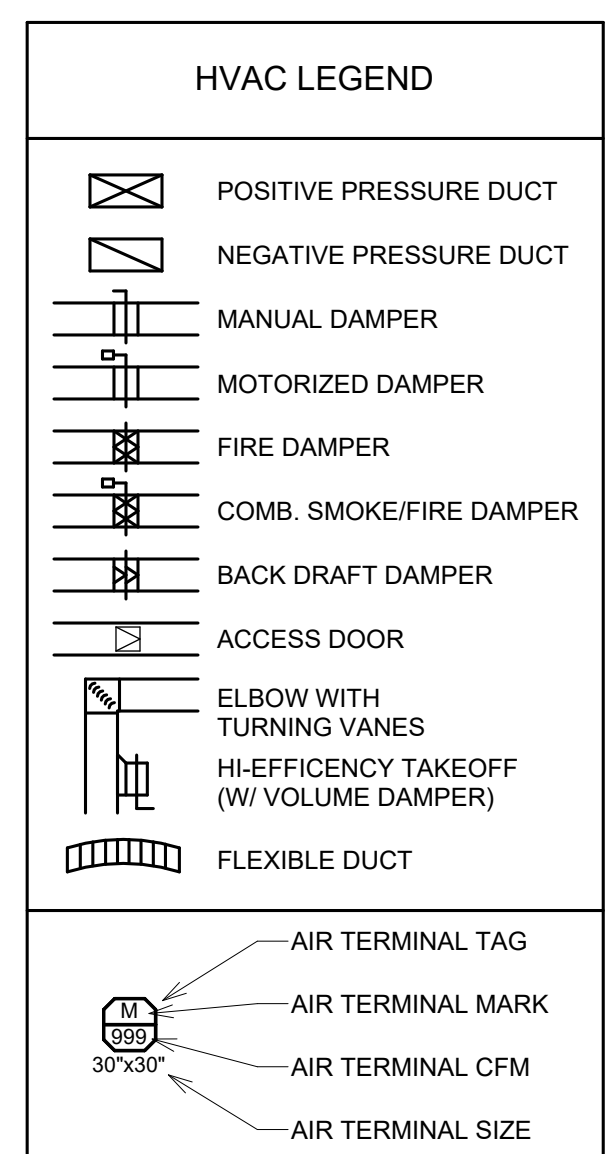
PHASE
CONSTRUCTION

PROJECT
PE 25028

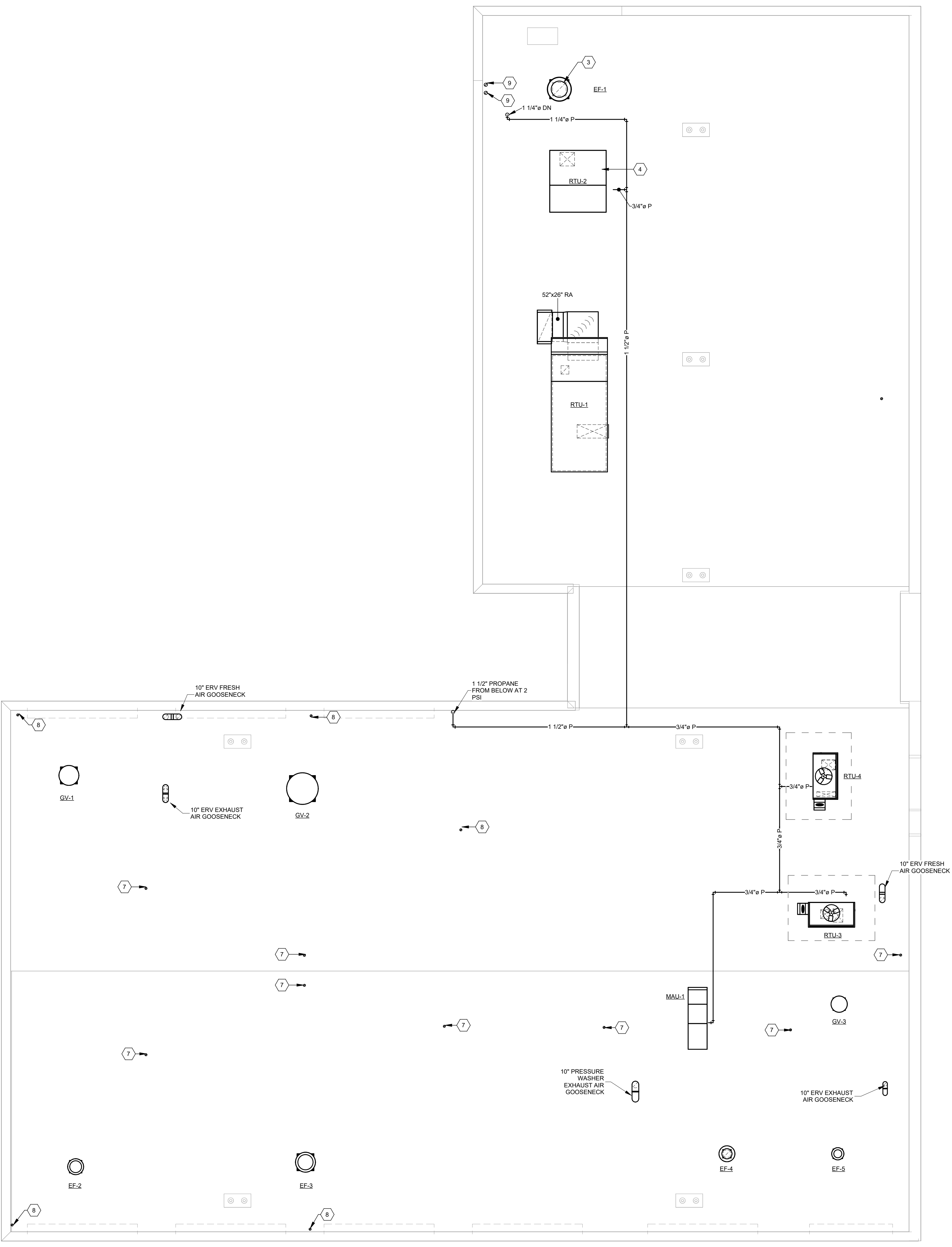
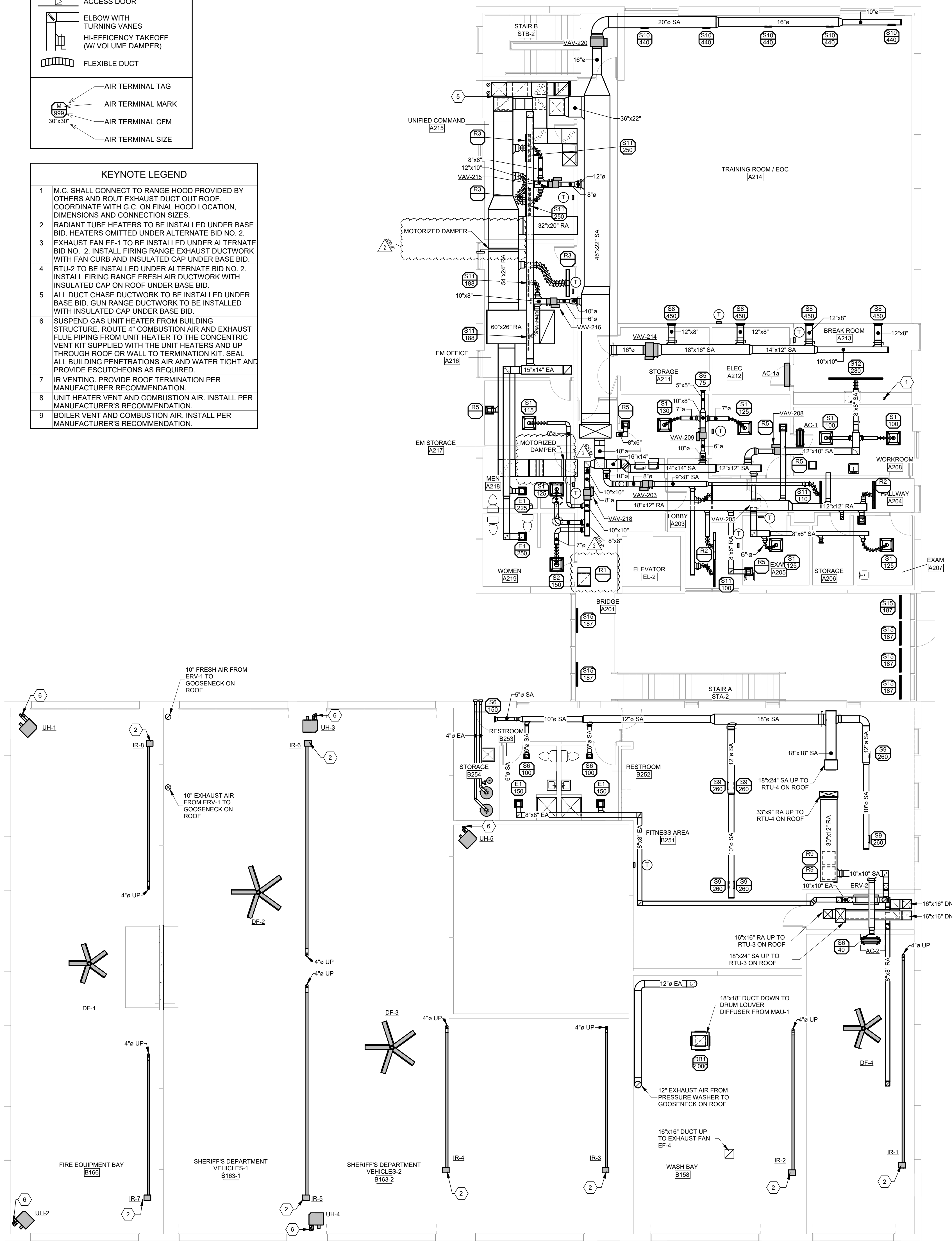
SHEET
M102

PLUMBING PLANS

NO.	DESCRIPTION	DATE
1.	Addendum #1	11/04/25
2.	Addendum #2	11/07/25



- KEYNOTE LEGEND**
- M.C. SHALL CONNECT TO RANGE HOOD PROVIDED BY OTHERS AND ROUT EXHAUST DUCT OUT ROOF. COORDINATE WITH G.C. ON FINAL HOOD LOCATION, DIMENSIONS AND CONNECTION SIZES.
 - RADIANT TUBE HEATERS TO BE INSTALLED UNDER BASE BID. HEATERS OMITTED UNDER ALTERNATE BID NO. 2.
 - EXHAUST FAN EF-1 TO BE INSTALLED UNDER ALTERNATE BID NO. 2. INSTALL FIRING RANGE EXHAUST DUCTWORK WITH FAN CURB AND INSULATED CAP UNDER BASE BID.
 - RTU-2 TO BE INSTALLED UNDER ALTERNATE BID NO. 2. INSTALL FIRING RANGE FRESH AIR DUCTWORK WITH INSULATED CAP ON ROOF UNDER BASE BID.
 - ALL DUCT CHASE DUCTWORK TO BE INSTALLED UNDER BASE BID. GUN RANGE DUCTWORK TO BE INSTALLED WITH INSULATED CAP UNDER BASE BID.
 - SUSPEND GAS UNIT HEATER FROM BUILDING STRUCTURE. ROUTE 4" COMBUSTION AIR AND EXHAUST FLUE PIPING FROM UNIT HEATER TO THE CONCENTRIC VENT KIT SUPPLIED WITH THE UNIT HEATERS AND UP THROUGH ROOF OR WALL TO TERMINATION KIT. SEAL ALL BUILDING PENETRATIONS AIR AND WATER TIGHT AND PROVIDE ESCUTCHEONS AS REQUIRED.
 - IR VENTING. PROVIDE ROOF TERMINATION PER MANUFACTURER RECOMMENDATION.
 - UNIT HEATER VENT AND COMBUSTION AIR. INSTALL PER MANUFACTURER'S RECOMMENDATION.
 - BOILER VENT AND COMBUSTION AIR. INSTALL PER MANUFACTURER'S RECOMMENDATION.



1 HVAC PLAN - LEVEL 2
1/8" = 1'-0"

2 HVAC PLAN - ROOF
1/8" = 1'-0"

