

Addendum 4

Date: 10/28/22

Addendum 4 Items:

General:

On the Pre-Bid sign-in sheet, the email address for O'Rourke Demolition Specialists was incorrect, the correct email address should be shollmann@orourkewrecking.com

It is to be noted that all addendum items requiring drawing changes or clarifications have been issued via full-sized sheets, for ease of replacing pages within the set, in lieu of pasting 8 ½" x 11" pages in the sets. Items on the sheets should be clouded and tagged indicating the revisions as well.

Contractor Questions:

Question 1: To eliminate the possibility of double bidding the demolition portion of this project, would it be feasible for the electrical contractor to "make safe only", with the demolition contractor being responsible for removal and disposal of the electrical equipment, panels, conduit, lighting, wiring, etc.?

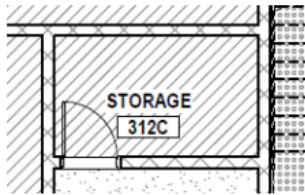
Response: The drawings and specifications do not specify which subcontractor performs which scope, all work and scope needs to be coordinated between the subcontractors and general contractor. That being said, the owner and design team would be fine with this demolition sequencing, noting this would still need to be coordinated and recommended in writing between the subcontractors and general contractor during bidding and construction.

- Question 2:
- a) On the finish schedule on A804a, room 400b has EF-2 floor, with paint and CT-5/6 walls. Is this correct? Other restrooms have CT-3 floor and CT-4 on all walls.
 - b) Finish schedule shows CT-5 and CT-6 on both East and West walls. Elevation D3/A151 does not show CT-5/CT-6. Please clarify which walls get the CT-5 and CT-6.
 - c) It appears that the CT-5 and CT-6 has been left off the elevation drawings on A151, A152, A153, A154. Please review the wall tile requirements and show the tile as required on the restroom elevations and provide elevations to clarify it.
 - d) On the finish legend, the CT-4 calls for a 30"x30" tile size. The supplier, Louisville Tile, advises that they don't offer that size. Is 2"x 12" acceptable?

- Response:*
- a) Refer to updated finish schedule on A804a.
 - b) D3/A151 is correct, the sink wall is not to receive tile. See updated A4/A152 for tile added to the toilet wall.
 - c) See sheets A151, A152, A153, and A154 for updated tile locations.
 - d) See updated finish schedule on A805, 2x12 is preferred as noted in the specifications.

Question 3: a) There are CONFLICTS in finishes between the Room Finish Schedule and the Finish Floor Legend. Please Advise.(see pg 2).

312B	STORAGE	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
312C	STORAGE	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
313	LABORATORY	EF-1	DR-1	DT-1	DT-1	DT-1	DT-1	OPEN-PT-6

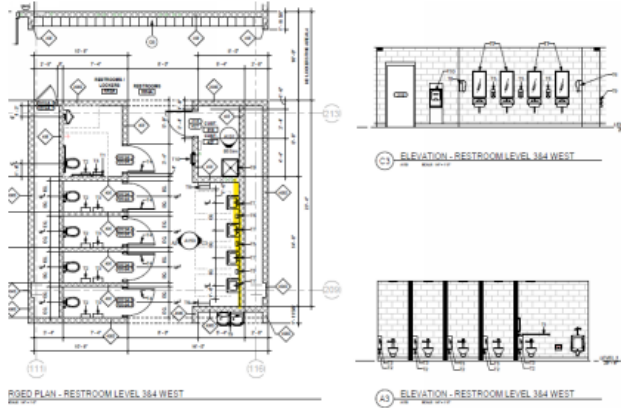


FINISH FLOOR LEGEND

	CPT-1 (WALK-OFF CARPET)		CT-1 (PORCELAIN TILE)
	CPT-2 (CARPET)		RF-R1 (RUBBER FLOOR TILE-RAISED DISC)
	LVT-1 (LUXURY VINYL TILE)		EF-1 EPOXY FLOOR (39 MILS)
	RF-2 (RUBBER SPORTS TILE)		EF-2 EPOXY FLOOR (119 MILS)
	CONC. (SEALED CONCRETE)		LVT-2

b) Restrooms/Lockers in ALL floors are listed in the Rm Fin Sch having Ceramic Wall Tile (CT-5/CT-6)in the East and West walls, but no Elev provided. Please Advise (see pg 3).

					STEEL	STEEL
RR3A	RESTROOMS / LOCKERS	EF-2	RB-1	PT-2/CT-5 CT-6	PT-2	PT-2
RR3B	RESTROOMS / LOCKERS	EF-2	RB-1	PT-2/CT-5 CT-6	PT-2	PT-2
CA	STAIR A	DF 1	DR 1	DT 1	DT 1	DT 1



- Response:*
- a) See updated sheets and finish schedule as noted below.
 - b) See updated sheets and finish schedule as noted below.

Question 4: Could you assist on the phasing plans for the Epoxy flooring scope for the attached school project in Lexington, KY? We are working on our proposal and would need to know if all areas of epoxy flooring will be available simultaneously or if the installations need to be sequential/phased.

Response: The project is to be constructed under 1 Phase. Any phasing of trades, subcontractors, project scope, work sequencing, etc., is to be coordinated by the General Contractor in conjunction with the subcontractors.

Question 5: a) The filters for the closed loop show 2 filters on the drawings only one in the schedule also the filter that is specified will not do 250gpm but will do 165gpm which is on the drawings.

b) The drawings for the alternate fluid cooler shows no chemical lines going into the building. Normally the chemical line comes off the spray pump pipe with 1/2 or 3/4 line into building with inline pump if needed.

Response: a) The PF-01 and PF-02 on M400A shall be same units. Flow shall be 165 gpm per One Line Diagram.

b) Chemical Treatment Contractor is responsible for determining where chemical feed system will be located and how piping will be distributed to the Fluid Cooler as part of Bid Alternate #1.

Question 6: Page L200-B shows full asphalt demo on right side of paved area. Page L401-B Shows new pavement in base bid but overlay in alternate 1, the paving area has changed and cannot be overlaid in areas. Please clarify what is to happen there.

Response: Refer to new L401 A and L 401-B. The area in question will not be part of the area subject to alternate 1 and shall receive full pavement section.

Question 7: The door schedule has coiling doors and sectional doors, the specs have coiling doors, sectional doors, and coiling grille doors. Can you clarify which door numbers are the coiling grille doors.

Response: There is no number for the coiling grille, but is to be provided and installed in 316A. The pockets are indicated on A122, and it is detailed on sheet A252, as well as specified in the project manual.

Question 8: On that custom CNC Panel – detail A5/A180, we see that the solid surface backer panel is in section 123661.16. Do you know who is responsible for the actual CNC Panel?

Response: The drawings and specifications do not specify which subcontractor performs which scope, all work and scope needs to be coordinated between the subcontractors and general contractor. Note that the solid surface panel is to be CNC routed to create the graphic and is not merely a backing panel. Also, noted on A101a, the sheathing behind the solid surface is to be 5/8" plywood in lieu of 5/8 gyp for this wall, to provide a proper substrate for the solid surface panels.

Question 9: 005423 Supplementary Conditions, 1.8, C., 11.4.3. #6. Any other sub-contractor whose value for work, including labor, break-out items and other materials, exceeds \$500,00.00. Would you consider deleting this requirement?

Response: This requirement and amount will remain unchanged and will not be deleted.

Question 10: a) Room 310A, Room 310B have STC48 assemblies for the doors, should the (3) windows be STC48 windows too?
b) Directories 101300 – Detail B5/A950 - Should there be one per floor? Only found on C2/A180

Response: a) Per addendum 3, these are to be GL-5.

b) Refer to sheets A950 through A956b for locations for Directories. Refer to updated Sheet A950 which clarifies detail B5/A950 to be signage type H, see reference below for updated sheets noting locations for signage type H.

Question 11: Regarding the Fayette County Public Schools project, would rail support systems be needed for visual display board assemblies? They are listed in the specifications but there are no details in the plans showing that they are needed. Would they be excluded from the project or is there a certain area that requires them?

Response: Per the General Requirements in the specifications, if specified, then items or components are required whether they are shown in drawing detail form or not. The rail support system is specified or intended to be a concealed continuous Z-clip and L bracket system, (3.3.E.1.a) recommended by the manufacturer and provided at all marker boards or tack boards.

Question 12: a) Section 1.3, Action Submittals, Item C-1: Specification notes machine room and hoistway layouts required. Since machine room and hoistway layouts are not changing, are the layout drawings still required? If layout drawings are required, is a P.E. acknowledgment required for layouts?

Answer: Yes, layout drawings are required, refer to the specifications for where a P.E. stamp is required.

b) Section 1.7, Delivery, Storage, and Handling, Item A: Given the building is empty, will on site storage of elevator equipment be provided?

Answer: This is to be coordinated with the General Contractor.

c) Section 2.1, Hydraulic Elevators, Item A, Manufacturers: Please confirm Otis Elevator is an acceptable manufacturer.

Answer: The owner would prefer to stay with the three manufacturers listed in the specifications.

d) Section 2.3, Elevators, Item B-5: Existing elevator capacity is 4000# and 3500#. Specification lists capacities as 2500# and 3500#. Please confirm existing capacities to be retained.

Answer: Correct, the intent is for the existing elevator capacities to remain, see specification revisions below.

e) Section 2.3, Elevators, Item B-8: Existing elevators have battery operated emergency return units in lieu of emergency power from a generator. Should battery operated emergency power (ERU) be provided with new controls?

Answer: Correct, remove Standby-power operation, and provide ERU battery lowering, see specification revisions noted below.

f) Section 2.3, Elevators, Item B-10 Item A-E: Please confirm existing cab shells and platforms shall be retained with new cab interior finishes installed per specified.

Answer: Correct, existing cab shells and platforms to remain, with new cab interiors, see specification revisions noted below.

g) Section 2.3, Elevators, Item B-10 Item F: Front walls (return panels); specification has new satin stainless steel finishes. The existing returns are satin stainless steel. Is the intent of the specification to have the returns cladded in stainless steel or cleaned on-site with new applied car operating panel installed over cladding? Please advise.

Answer: New stainless steel panels to be provided per the specifications.

- h) Section 2.3, Elevators, Item B-10 Item K: Door sills; existing car door sills are aluminum. Specification is for aluminum sills. Should existing car door sills if in good condition be retained and cleaned?

Answer: Yes, that would be acceptable where sills are still in good condition.

- i) Section 2.3, Elevators, Item B-11 Item G: Existing hoistway doors and frames are baked enamel. Please confirm baked enamel finish is to be retained and painted by others.

Answer: Correct, baked enamel finish is to be retained and painted by others, see specification revisions noted below.

- j) General question: Please confirm existing in-car lanterns to be removed and new in-car lanterns to be provided in elevator cab.

Answer: Correct.

- k) General question: Please confirm combination hall lantern/position indicator to be provided at first floor landing only.

Answer: Correct.

- Question 13: a) Section 1.4, Action Submittals, Item B-1: Specification notes machine room and hoistway layouts required. Since machine room and hoistway layouts are not changing, are the layout drawings still required? If layout drawings are required, is a P.E. acknowledgment required for layouts?

Answer: Yes, layout drawings are required, refer to the specifications for where a P.E. stamp is required.

- b) Section 1.8, Delivery, Storage, and Handling, Item A: Given the building is empty, will on site storage of elevator equipment be provided?

Answer: This is to be coordinated with the General Contractor.

- c) Section 2.1, Manufacturers, Item A: Please confirm Otis Elevator and Peelle freight doors are acceptable manufacturers.

Answer: The owner would prefer to stay with the three manufacturers listed in the specifications.

- d) Section 2.3, Freight Elevators, Item 9 A, B, C, D, F, I, J Car Enclosures: Please confirm if the existing freight platform and cab shell is to be retained. Per specification, new cab lighting, ventilation fan, and car fixtures to be provided.

Answer: Correct, dimensions given in specifications are based upon existing dimensions.

- e) Section 2.3, Freight Elevators, Item 10 A-F: Please confirm new freight doors are to be provided as specified and existing hoistway entrance frames are to be retained.

Answer: Correct.

- f) Section 2.3, Freight Elevator, Item B-11: Should car and hall button fixtures be standard or vandal resistant? Please advise.

Answer: Vandal resistant.

- g) Section 2.4, System and Components, Item F-1: Existing freight elevator is designed for for a C1 loading class. Given this, please confirm existing car frame and platform which is designed for C1 loading is to be retained in lieu of providing new.

Answer: Correct, existing car frame and platform to be retained.

- h) Section 2.5, Operation Systems, Item D-1: Which floors should have security keyswitch operation?

Answer: All floors.

- i) Section 2.7, Car Enclosures, Item A: Are new car enclosures to be provided or existing car enclosures to be retained?

Answer: Existing to remain but painted where noted in the specifications.

Site Addenda Items (L):

Drawings:

Item L1: L200-A – expanded area of sidewalk and curb removal along Indian Ave.

Item L2: L300-A – Canopy Drains have been added on each end of the building. Connect to storm as indicated here-on.

Item L3: L400-A – additional handrails have been added to the long stairs at the face of the building along Midland Ave refer.

Item L4: L401-A – additional handrails have been added to the long stairs at the face of the building along Midland Ave and one additional handrail has been added on the west side of the building at the first set of steps under the canopy due to the relocation of the canopy columns.

Pavement area within the bus loop that is over the old rail spur is not subject to alternate 1 and shall receive a full heavy-duty pavement section.

Item L5: L401-B – Pavement area within the bus loop that is over the old rail spur and extends out to Midland Avenue is not subject to alternate 1 and shall receive a full heavy-duty pavement section.

Item L6: L500-A – Revised landscape bed at Rain Chain/Canopy Downspout to include River Rock with aluminum edging.
Revised general notes.

Item L7: L500-B – Revised general notes.

Item L8: L702 – Revised elevation on Section I

Item L9: L704 – New sheet to provide detail/stair sections for stairs along Midland Ave Entrances and added wall joints for exterior site walls.

Structural Addenda Items (S):

Drawings:

Item S1:

Refer to sheet S0.0 & S0.1
Add concrete masonry notes

Item S2:

Refer to sheet S2.1
See clouded area for additional demolition

Item S3:

Refer to sheet S2.2
See clouded added notes

Item S4:

Refer to sheet S3.0
See clouded revisions to canopy column sizes and locations
See clouded added sections.

Item S5:

Refer to sheet S3.1
See clouded added section M/S5.0

Item S6:

Refer to sheet S4.0
See clouded areas for added notes, revisions and sections

Item S7:

Refer to sheet S4.1
See clouded areas for added notes, revisions and sections

Item S8:

Refer to sheet S4.2
See clouded areas for added notes, revisions and sections

Item S9

Refer to sheet S4.3

See clouded areas for added notes, revisions and sections

Item S10

Refer to sheet S4.4

See clouded areas for added notes, revisions and sections

Item S11

Refer to sheet S4.5

See clouded areas for added notes, revisions and sections

Item S12

Refer to sheet S4.7

See added MAU-101 & MAU-102 Support framing

See Clouded area around new roof opening for framing revisions

Item S13

Refer to sheet S4.8

See clouded areas for changes to canopy column sizes and outlooker

Item S14

Refer to sheet S4.9

See clouded revisions to Section A/S4.9

Item S15

Refer to sheet S6.0

See clouded revisions to notes and details C, D, and E

Item S16

Refer to sheet S6.1

See clouded added sections A, B, C, D and F

Item S17

Refer to sheet S8.2

See clouded revisions to sections A, B, and D

Item S18

Refer to sheet S8.4

See clouded revisions to section A.

See clouded added sections B, C, D, DD, E, F, and G

Item S19

Refer to sheet S8.5

See clouded revisions to Plan A for added notes.

See clouded revisions to Section C

Architectural Addenda Items (A):

Drawings:

Item A1:

Refer to sheets A101A and A101B for revisions to the canopies and added downspouts and rain chain.

Item A2:

Refer to sheets A110, A111, A112, A113, and added A114 for revisions to the canopies and added downspouts.

Item A3:

Refer to sheets A151, A152, A153, and A154 for updated tile locations.

Item A4:

Refer to sheets A180, A181, A182, A184 and A185 for locations of 8" base and paint color revisions.

Item A5:

Refer to sheets A180, A181, A182, A184 and A185 for locations of 8" base and paint color revisions.

Item A6:

Refer to sheet A650 added 8" CMU wall as shown on A1/A650.

Item A7:

Refer to sheets A800a, A800f, A801a, A801b, A802a, A802b, A803a, A803b, A804a, A804b, and A805 for updated flooring types and locations and updated finish schedule.

Item A8:

Refer to sheet A950 for updated sign type H Directory reference, and sheets A954b, A955b, A956a for plan locations tagging signage type H which were not all tagged on the bid documents.

Specifications:

Item A9:

Refer to specification Section 004113 "KDE Form of Proposal: List of Proposed Subcontractors, add 34. HVAC Temperature Controls. See Unit prices, add 40. 10" Below-slab storm sewer – 48" deep installed – cut/patch existing slab - /LF.

Item A10:

Refer to specification Section 074213.16 "Metal Plate Wall Panels": 2.2, A.1., add: I. ACM Panelworx. Add m. East Coast Metal Systems. These shall be listed as approved manufacturers.

Item A11:

Refer to specification Section 075216 "Styrene-Butadiene-Styrene (SBS) Modified Bituminous Membrane Roofing": 2.4, A. Revise to read: A. SBS-Modified Bitumen Type I, Glass-Fiber-Mat Base Sheet: ASTM D6163/D6163M, Type I, Grade S, SBS-modified asphalt sheet, reinforced with

glass fibers, smooth surfaced, suitable for cold adhesive or hot asphalt application method. Refer to 2.2.A.1, add e. Elevate Roofing shall be added as an approved manufacturer.

Item A12:

Refer to specification Section 093013 “Ceramic Tiling”: 2.3, E, 3: Change to read: 3. Module Size: 6 inches by 6 inches. 2.3, F, 1-9. Delete F., 1-9, CT-6 is to be removed from the scope.

Item A13:

Refer to specification Section 096519 “Resilient Tile Flooring”: 2.2, A. add: 6. J and J Flooring. 2.3, A. add: 6. J and J Flooring.

Item A14:

Refer to specification Section 096813 “Tile Carpeting”: 2.1, A. add: 8. J and J Flooring. 2.2, A. add: 8. J and J Flooring.

Item A15:

Refer to specification Section 096813 “Tile Carpeting”: 2.1, A. add: 8. J and J Flooring. 2.2, A. add: 8. J and J Flooring.

Item A16:

Refer to specification Section 096513 “Resilient Base and Accessories”: 2.2, D, change to read D. Height: 4 inches and 8 inches where shown on sheets A180, A184, and A185.

Item A17:

Refer to specification Section 142400 “Hydraulic Elevators”: 2.3.B.5, change to read:
5. Rated Load: Elevator-2 – 4000 lbs, Elevator-3 – 3500 lbs.

Refer to 2.3.B.8, revise to read:

- a. Automatic operation of lights and ventilation fans.
- b. ERU battery lowering.

Refer to 2.3.B.10., revise to read:

- a. Inside width: Elevator-2, to work with existing cab shell to remain.
- b. Inside width: Elevator-3, to work with existing cab shell to remain.
- c. Inside depth: Elevator-2, to work with existing cab shell to remain.
- d. Inside depth: Elevator-3, to work with existing cab shell to remain.
- e. Inside height: Elevator-2 and 3, to work with existing cab shell to remain.

Refer to 2.3.B.11., revise to read:

- g. Doors and Transoms: Existing to remain, clean and paint.
- h.

Item A18:

Refer to specification Section 142413 “Hydraulic Freight Elevators”:

Food Service Addenda Items (K):

No addendum items at this time.

Fire Protection Addenda Items (FP):

Drawings:

Item FP1:

Refer to FP100a – OVERALL FLOOR PLANS – FIRE PROTECTION, See attached drawing for the following revisions:

- Refer to Overall First Floor Plan – Fire Protection, see revision to Fire Protection Service Entrance located in Mechanical Room 121.
- Refer to Alarm Valve Riser Detail for revisions to Riser.
- Refer to Sheet Keynote #7. Fire Suppression contractor may elect to utilize an approved antifreeze solution for overhang provided the solution is pre-mixed and UL listed to meet UL2901 Standards. Antifreeze must be High-Performance with Corrosion Inhibitor and Microbiological Protection, similar to Nobel Company Fire Fighter Eliminator 1330. If antifreeze solution is utilized the contractor is responsible to ensure proper connections per NFPA and shall be responsible to coordinate any additional Tamper / Flow switches with the fire alarm contractor for monitoring and power.

Item FP2:

Refer to FP100b – OVERALL FLOOR PLANS – FIRE PROTECTION, See attached drawing for the following revisions:

- Refer to Fire Protection Details for clarification and enlargement of details for clarity.
- Refer to Sheet Keynotes, revise keynote 5 to indicate "...Refer to Detail 5, this sheet."

Attachments:

1. The following full size PDF drawings are attached for inclusion in this Addenda.
 - a. FP100a – OVERALL FLOOR PLANS – FIRE PROTECTION
 - b. FP100b – OVERALL FLOOR PLANS – FIRE PROTECTION

Plumbing Addenda Items (P):

General Clarification:

Item P1:

Existing 10" Storm Piping below slab on First Floor that is to remain shall be video inspected at earliest opportunity upon award of the project. Inspection shall be witnessed by engineer and owner's representative.

Item P2:

Regarding exposed versus concealed piping. The following shall be followed for this project.

- All exposed water or storm drain piping shall be insulated and provided with a paintable jacket per specifications. (220719.3.2.G)

Item P3:

Refer to all Plumbing Schedules located on P601 and P602, there is an empty column labeled Serial Number. This column is to be filled out by contractor during construction with the serial number of each piece of equipment. This will be part of record drawings. Failure to complete the requirement will result in rejection of As-Built drawings and delay of closeout.

Drawings:

Item P4:

Refer to attached P101a – FIRST FLOOR PLAN A – SANITARY SEWER, for revision to this sheet. Extend new sanitary to connect to existing outside building as indicated.

Item P5:

Refer to attached P101b – FIRST FLOOR PLAN B – SANITARY SEWER, locate Freight Elevator Sump Pump Controller in Elevator Machine Room (EMR) 120.

Item P6:

Refer to P201b – FIRST FLOOR PLAN B – DOMESTIC WATER, refer to water service entrance located at Mechanical Room 121. Water service entrance shall be 4" service.

Item P7:

Refer to attached drawings P501, P506, P507, P508, P509, and P510, for revisions to plumbing riser sheets.

Item P8:

Refer to attached P512 – PLUMBING DETAILS, for the following revisions:

- Refer to Grease Trap Detail for revisions.

Item P9:

Refer to attached P601 – PLUMBING SCHEDULES, for the following revisions:

- Added Drench Hose Detail.

Item P10:

Refer to attached P602 – PLUMBING SCHEDULES, for the following revisions:

- Added GREASE TRAP SCHEDULE.
- Added REFRIGERATED AIR DRYER SCHEDULE.

Attachments:

1. The following full size PDF drawings are attached for inclusion in this Addenda.
 - a. P101a – FLOOR PLAN A – SANITARY SEWER
 - b. P101b – FLOOR PLAN B – SANITARY SEWER
 - c. P501 – PLUMBING RISERS
 - d. P506 – PLUMBING RISERS
 - e. P507 – PLUMBING RISERS
 - f. P508 – PLUMBING RISERS
 - g. P509 – PLUMBING RISERS
 - h. P510 – PLUMBING RISERS
 - i. P512 – PLUMBING DETAILS
 - j. P601 – PLUMBING SCHEDULES
 - k. P602 – PLUMBING SCHEDULES

Mechanical Addenda Items (M):

General Clarifications:

Item M1:

Regarding exposed versus concealed ductwork. The following shall be followed for this project.

- All exposed round Supply Air Duct shall be double wall spiral
- All exposed rectangular Supply Air Duct shall be externally insulated and wrapped with canvas jacket for field painting.

Item M2:

Regarding exposed versus concealed piping. The following shall be followed for this project.

- All exposed hydronic and condensate drain piping shall be insulated and provided with a paintable jacket per specifications. (230719.3.2.G)

Item M3:

Refer to all Mechanical Schedules located on M601 thru M604, there is an empty column labeled Serial Number. This column is to be filled out by contractor during construction with the serial number of each piece of equipment. This will be part of record drawings. Failure to complete the requirement will result in rejection of As-Built drawings and delay of closeout.

Item M4:

Referring to all specification's sections with Warranty requirements. All warranties are to begin at date of substantial completion. Contractor is responsible to ensure that all warranties are properly provided regardless of manufacturer's standard warranties from ship date or start-up.

Item M5:

This HVAC system for this project will be commissioned. Functional testing of the system must be complete before substantial completion will be granted. Functional testing cannot be completed until all controls have been completed and fully operational. Completed controls shall mean all programming is complete and full graphics package is implemented and ready to fully operate the system. Failure to complete Functional Testing or Controls Completion will result in engineer declining to recommend substantial completion when requested.

Drawings:

Item M6:

Refer to U100 – OVERALL GEOTHERMAL SITE PLAN – MECHANICAL, refer to Well Field Loop Schedule, the Well Pipe Size Diameter for wellfield 1 and 2 shall be 1-1/4”.

Item M7:

Refer to attached M101b – FIRST FLOOR PLAN B – HVAC, for revisions to Diesel / Med-Heavy Truck Tech Lab 113.

Item M8:

Refer to M202a – SECOND FLOOR PLAN A – MECHANICAL PIPING, revise as follows:

- Piping runout for HP-203 shall be 1-1/2” HPS and HPR.

Item M9:

Refer to M202b – SECOND FLOOR PLAN B – MECHANICAL PIPING, revise as follows:

- Piping runout for HP-110 shall be changed to 2" HPS and HPR.

Item M10:

Refer to M203b – THIRD FLOOR PLAN B - MECHANICAL PIPING, revise as follows:

- Piping runout for HP-316 shall be 1" HPS and HPR.
- Piping runout for HP-317 shall be 1-1/2" HPS and HPR.

Item M11:

Refer to M300 – MECHANICAL SECTIONS. Delete Detail 9 – Diesel Engine Lab Exhaust Fan Section.

Item M12:

Refer to attached M302 – MECHANICAL SECTIONS. This is a new sheet added for revisions to Automotive Lab 110.

Item M13:

Refer to M400A – ENLARGED MECHANICAL PLANS, for the following revisions:

- Provide a 2" HPS & HPR runout to HP-115B from P-02A/02B Secondary System.
- Provide a 2-1/2" HPS & HPR runout to HP-116 from P-02A/02B Secondary System.

Item M14:

Refer to M400B – ENLARGED MECHANICAL PLANS, for the following revisions:

- Provide a 2" HPS & HPR runout to HP-115B from P-02A/02B Secondary System.
- Provide a 2-1/2" HPS & HPR runout to HP-116 from P-02A/02B Secondary System.

Item M15:

Refer to M401 – ENLARGED MECHANICAL PLANS, for the following revisions:

- All E-1 exhaust grilles serving single water closet compartments shall be revised to 200 CFM and duct size shall be upsized to 8" Round.

Item M16:

Refer to M402 – ENLARGED MECHANICAL PLANS, for the following revisions:

- Refer to Enlarged Restroom RR4A and Enlarged Restroom RR4B, All E-1 exhaust grilles serving single water closet compartments shall be revised to 200 CFM and duct size shall be upsized to 8" Round.
- E-2 Exhaust grille located in Restrooms/ Lockers RR1B, shall be modified to 2,150 CFM exhaust and duct size shall be 20"x14".

Item M17:

Refer to attached M404 – ENLARGED MECHANICAL PLANS, for revisions to Culinary Arts Lecture Lab 315, provide makeup air ductwork from MAU-101 on roof as indicated. Updated Air Balance Schedule.

Item M18:

Refer to attached M405 – ENLARGED MECHANICAL PLANS, for revisions to Advanced Culinary Arts Lab 316, provide makeup air ductwork from MAU-101 on roof as indicated. Updated Air Balance Schedule.

Item M19:

Refer to attached M407 – ENLARGED MECHANICAL PLANS, for the following revisions:

- Added and Enlarged Partial Plan for Diesel Tech Lab 113. Plans indicate revisions to HVAC system for Diesel Tech Lab 113. Revisions include deletion of exhaust fans, addition of an ERV, upsizing HP-110, and various duct size changes.

Item M20:

Refer to attached M408 – ENLARGED MECHANICAL PLANS, for the following revisions:

- Plans indicate revisions to HVAC system for Automotive Tech Lab 110. Revisions include deletion of exhaust fans, addition of an ERV, upsizing HP-116, and various duct size changes.

Item M21:

Refer to attached M601 – MECHANICAL SCHEDULES, for the following revisions:

- Refer to VAV BOX SCHEDULE – Delete VAV-107
- Refer to PUMP SCHEDULE for revisions to P02A, 02B, 03A, and 03B
- Refer to POT FEEDER / FILTER SCHEDULE for revision to flow.

Item M22:

Refer to attached M602 – MECHANICAL SCHEDULES, for the following revisions:

- Refer to AIR DEVICE SCHEDULE for addition of E-5 and E-6 air devices.
- Refer to EXHAUST FAN SCHEDULE for deletion of EF-104A, 104B, 105A, and 105B.
- Refer to LOUVER SCHEDULE for addition of louvers and revision to sizes
- Refer to ELECTRIC HEATER SCHEDULE for addition of unit heaters.

Item M23:

Refer to attached M603 – MECHANICAL SCHEDULES, revise sheet as follows:

- Refer to Water-Source Heat Pump Schedule
 - HP-115B shall have Remark 9 added to remarks section.
 - HP-116 shall have model number changed to WLVW1180 (15 Ton Unit), and updated performance data.
 - HP-110 shall have model number changed to WCCW2120 (10 Ton Unit), and updated performance data.
- Add Air To Air Energy Recovery Unit Schedule

Item M24:

Refer to M703 – BUILDING AUTOMATION SYSTEM – TEMPERATURE CONTROLS, make the following revisions to the sequences of operations:

- EXHAUST FAN VENTILATION & MAKE-UP AIR – sequence shall be deleted in its entirety.

- DIRECT OUTSIDE AIR VENTILATION - sequence shall be deleted in its entirety.
- AUTOMOTIVE / DIESEL ENGIN GAS DETECTION SYSTEMS – revise as follows:
 - The system has been modified per drawings M407 and M408. Primary / Secondary Exhaust Fans have been deleted and replaced with an Air to Air Energy Recovery Ventilator. (ERV-101 & ERV-102)
 - ERV for each space shall run continuously during occupied hours and will be off during unoccupied hours.
 - Gas detection system will be used to monitor levels and provide alarms.
 - Gas detection system will be used to initialize HP Fan and ERV fan during unoccupied hours if the CO or NO2 levels exceed safe limits.
 - The following Points shall be monitored from ERV
 - O/A Entering Air Temp / Humidity
 - Supply to HP Discharge Air Temp / Humidity
 - Return to ERV Temp / Humidity
 - Supply and Exhaust Fan Command and Status
 - General Fault Alarms

Item M25:

Refer to M704 – BUILDING AUTOMATION SYSTEM – TEMPERATURE CONTROLS, for the following revisions:

- Refer to Mini Split Units Points List – Delete Remark 2. All controls shall be by equipment manufacturer utilizing factory hard-wired controller. BAS will integrate to monitor alarms and provide schedule and setpoints.

Specifications:

Item M26:

Refer to specifications, Table of Contents: Add section 233430 – VEHICLE EXHAUST EXTRACTION SYSTEM, see full specification included in this addendum.

Attachments:

1. The following full size PDF drawings are attached for inclusion in this Addenda.
 - a. M101b – FIRST FLOOR PLAN B – HVAC
 - b. M302 – MECHANICAL SECTIONS
 - c. M404 – ENLARGED MECHANICAL PLANS
 - d. M405 – ENLARGED MECHANICAL PLANS
 - e. M407 – ENLARGED MECHANICAL PLANS
 - f. M408 – ENLARGED MECHANICAL PLANS
 - g. M601 – MECHANICAL SCHEDULES
 - h. M602 – MECHANICAL SCHEDULES
 - i. M603 – MECHANICAL SCHEDULES

Electrical Addenda Items (E):

General:

Item E1:

Applies to all Electrical Drawings and Specifications as described:

1. This Addendum document and associated Drawings, Sketches, Specifications, and associated attachments are complementary of each other, and all items shown are all-inclusive whether shown only on one source of documentation or multiple.
2. Ran spell check on all sheets. Spelling corrections made; minor spelling corrections not clouded.

Drawings:

Item E2::

Refer to drawing U201

1. Provide sheet note additions/modifications as indicated and clouded on attached drawings.

Item E3:

Refer to Drawings E002:

1. Identified ALTERNATE #1: BOILER / COOLING TOWER SYSTEM.

Item E4:

Refer to Drawings E101a through E104b, excluding E102b, E503, and E621:

1. Provide lighting fixture additions/modifications as indicated and clouded on the attached Drawings.

Item E5:

Refer to Drawings E201a through E205a, E601, E602, E603, E604, E606, E608, E611, E612, E613, E619, and E620:

1. Provide power additions/modifications as indicated and clouded on the attached Drawings.

Item E6::

Refer to Drawings E301a through E304b, E305, and E310:

1. Provide system additions/modifications as indicated and clouded on the attached Drawings.

Item E7:

Refer to Drawings E400, E401a, E401b, E402a, E402b, E403ab, E404ab, E407, and E409:

1. Provide power and system additions/modifications as indicated and clouded on the attached Drawings.

Item E8::

Refer to Drawings E501, E503, E504:

1. Provide detail additions/modifications as indicated and clouded on the attached Drawings.

Item E9:

Refer to Drawings E600:

1. Eliminated ground conductor from service entrance feeders. Refer to clouded Electrical One-Line Diagram Feeder Schedule.

Attachments:

Item E10::

1. The following full size PDF drawings are attached for inclusion in this Addenda.
 - a. U201 – PARTIAL SITE PLAN - ELECTRICAL
 - b. E002 - ELECTRICAL GENERAL NOTES
 - c. E101a - FIRST FLOOR PLAN A - LIGHTING
 - d. E101b - FIRST FLOOR PLAN B - LIGHTING
 - e. E102a - SECOND FLOOR PLAN A - LIGHTING
 - f. E103a - THIRD FLOOR PLAN A - LIGHTING
 - g. E103b - THIRD FLOOR PLAN B - LIGHTING
 - h. E104a - FOURTH FLOOR PLAN A - LIGHTING
 - i. E104b - FOURTH FLOOR PLAN B - LIGHTING
 - j. E201a - FIRST FLOOR PLAN A - POWER
 - k. E201b - FIRST FLOOR PLAN B - POWER
 - l. E202a - SECOND FLOOR PLAN A - POWER
 - m. E202b - SECOND FLOOR PLAN B - POWER
 - n. E203a - THIRD FLOOR PLAN A - POWER
 - o. E203b - THIRD FLOOR PLAN B - POWER
 - p. E204a - FOURTH FLOOR PLAN A - POWER
 - q. E204b - FOURTH FLOOR PLAN B - POWER
 - r. E205a - OVERALL ROOF PLAN – POWER
 - s. E301a - FIRST FLOOR PLAN A - SYSTEMS
 - t. E301b - FIRST FLOOR PLAN B - SYSTEMS
 - u. E302a - SECOND FLOOR PLAN A - SYSTEMS
 - v. E302b - SECOND FLOOR PLAN B - SYSTEMS
 - w. E303a - THIRD FLOOR PLAN A - SYSTEMS
 - x. E303b - THIRD FLOOR PLAN B - SYSTEMS
 - y. E304a - FOURTH FLOOR PLAN A - SYSTEMS
 - z. E304b - FOURTH FLOOR PLAN B – SYSTEMS
 - aa. E305 – COMMUNICATION RISER
 - bb. E 310 – ENLARGED IDF ROOMS
 - cc. E400 – ENLARGED UTILITY TRANSFORMER ROOM
 - dd. E401a - ENLARGED ELECTRICAL PLANS/ELEVATIONS
 - ee. E401b – ENLARGED ELECTRICAL PLANS/ELEVATIONS
 - ff. E402a - ENLARGED ELECTRICAL PLANS/ELEVATIONS
 - gg. E402b - ENLARGED ELECTRICAL PLANS/ELEVATIONS
 - hh. E403ab - ENLARGED ELECTRICAL PLANS/ELEVATIONS
 - ii. E404ab – ENLARGED ELECTRICAL PLANS/ELEVATIONS
 - jj. E407 – ENLARGED CULINARY PLAN - POWER
 - kk. E409 - ENLARGED MECHANICAL ROOMS
 - ll. E501 - ELECTRICAL DETAILS
 - mm. E503 - ELECTRICAL DETAILS
 - nn. E504 – ELECTRICAL FIXTURE SCHEDULE
 - oo. E600 - ELECTRICAL ONE-LINE DIAGRAM SCHEDULE

- pp. E601 - ELECTRICAL PARTIAL ONE-LINE DIAGRAM
- qq. E602 - ELECTRICAL PARTIAL ONE-LINE DIAGRAM
- rr. E603 - ELECTRICAL PARTIAL ONE-LINE DIAGRAM
- ss. E604 - ELECTRICAL PARTIAL ONE-LINE DIAGRAM
- tt. E606 - ELECTRICAL PARTIAL ONE-LINE DIAGRAM
- uu. E608 - ELECTRICAL PANEL SCHEDULES
- vv. E611 - ELECTRICAL PANEL SCHEDULES
- ww. E612 - ELECTRICAL PANEL SCHEDULES
- xx. E613 - ELECTRICAL PANEL SCHEDULES
- yy. E619 - ELECTRICAL PANEL SCHEDULES
- zz. E620 - ELECTRICAL PANEL SCHEDULES
- aaa. E621 - LIGHTING FIXTURE SCHEDULE

END OF ADDENDUM 4 NARRATIVE

SECTION 23 34 30 – VEHICLE EXHAUST EXTRACTION SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

- A. Provide all materials and labor necessary to furnish and install the vehicle exhaust extraction equipment and related ducting and piping as specified herein and illustrated on the project drawings. Final connections shall be included.
- B. Provide motor starters, disconnects and controls.

1.2 RELATED DOCUMENTS

- A. The General and Special Conditions, Division 01 Specification Sections, and all other Contract Documents (ESPECIALLY DIVISIONS 21, 22, 23 AND 26) are applicable to work under this section of the specifications. All the work under this section of the specifications shall be governed by any alternates and unit prices called for in the FORM OF PROPOSAL insofar as they affect this portion of the work.
- B. Section 230100 - GENERAL PROVISIONS FOR MECHANICAL WORK

1.3 ACTION SUBMITTALS

- A. Shop Drawings:
 - 1. Product Data: For each type of product indicated.
 - a. Construction details, material descriptions, dimensions of individual components and profiles, and finishes for duct collectors.
 - b. Rated capacities, operating characteristics, and furnished specialties and accessories.
 - c. Certified fan performance curves with system operating conditions indicated.
 - d. Certified fan sound-power ratings.
 - e. Motor ratings and electrical characteristics, plus motor and electrical accessories.
 - f. Material thickness and finishes, including color charts.
 - g. Dampers, including housings, linkages, and operators.
 - h. Wiring Diagrams: For power, signal, and control wiring.

1.4 CLOSEOUT SUBMITTALS

- A. Approved Shop Drawings: For all systems and related components. Provide in operation and maintenance manual.
- B. Operation and Maintenance Data: For dust collectors to include in operation, and maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Manufacturer's representative shall provide complete test and start-up on all system components.

1.6 WARRANTY

- A. A one-year parts and labor warranty shall be provided for all components from date of substantial completion for the project. Date of substantial completion shall be determined by the architect.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Car-Mon Products

2.2 AUTOMOTIVE LAB SYSTEM

- A. CMB Hazardous Fume Exhaust Fan:

1. Hazardous fume exhaust fan shall be licensed to bear the AMCA seal for certified performance in accordance with AMCA Standard 210. The fan shall be single inlet, single width, Arrangement 10 and shall have a backward inclined fan wheel with single thickness flat blades welded to both the shroud and back plate. The fan wheel shall be statically and dynamically balanced before assembly. Any required balance weights shall be welded to the outside of the shroud or back plate; no weights are to be installed in the blade air stream. All surfaces of the centrifugal fan shall be painted completely with an acid resistant polyester powder coating.
2. The bearings shall be of the pillow block type with cast steel frame and shall be bolted to the structural bearing supports. The fan shaft shall be fabricated of ground and polished cold drawn steel with machined centers and key slots for both the fan wheel and the drive sheave. It shall be given a rust inhibitive asphaltic coating after assembly. The V-belt drive shall be adjustable. The variable pitch sheave shall be factory set at the appropriate position to provide the specified capacity in the approximate midpoint of the adjustment range. All fans shall be provided with a belt guard enclosing both sheaves and V-belts. The belt guard shall have a tachometer hole. All drives shall be rated for no less than 150% of motor load.
3. The scroll and side sheets of the fan housing shall be fabricated of cold rolled steel of 12-gauge minimum thickness. The scroll and side sheets shall be joined through continuous welding. Spot welded or standing seam construction is not acceptable. The fan housing shall have a minimum of 8 attachment studs with flange locking nuts. Any bolts, self-tapping screws or fasteners that protrude into the housing interior are not acceptable. The fan base shall be fabricated of cold rolled steel of 12-gauge minimum thickness. The bearing supports within the base shall be fabricated of cold rolled steel angles having a minimum 3/16" thickness and they shall be welded to the sides of the base. All seams in the individual components shall be continuous welded. The motor base shall be fabricated of cold rolled steel of 12-gauge minimum thickness. Its position shall be adjustable through the use of bolts that travel in slots in the sides of the fan base. A non-hardening, high elasticity caulking shall be applied during assembly between the mating surfaces of the inlet cone and the fan housing and of the fan housing and the fan base.
4. Test requirements:
 - a. The assembled fan shall be test run before shipment with "total frequency" vibration measured at each bearing in both the vertical and horizontal planes. Any fan having an average reading of over 3 mils deflection is not acceptable.
 - b. Balance report to be provided with installation and maintenance instructions.

- B. Accessories:

1. TSR-S Spring Operated Hose Storage Reel:
 - a. The hose storage reel frame is to be comprised of formed 12 gauge and 2 x 2 x 1/8 square tubular steel and shall be of welded construction. The hose drum shall be constructed of 16 gauge steel welded to 12 gauge

steel end plates, forming an airtight cylinder. The internal assembly, combined with a low resistance inlet, shall provide efficient airflow through the drum.

- b. The flange-mounted flexible hose assembly shall be bolted to the air inlet of specified diameter; draw band connection is unacceptable. The drum shall be supported at one end by a 1" internally gusseted steel shaft through a heavy cast frame platform bearing, and at the other end by a sealed rotating outlet fitting of a lubricious synthetic material. The hose reel must be of sufficient size to accommodate the specified hose. The outlet fitting diameter, hose length, hose diameter, shall be as shown on the plans and specifications.
- c. The hose storage reel is to be fitted with an enclosed spring mechanism with balanced torque characteristics, factory tuned for hose type and length. Ratchet stops are to be provided so that the flexible hose assembly can be partially or completely extended. The reel is to be equipped with a spring-loaded mechanical stop mechanism that limits the number of drum rotations so that it cannot be over extended, and so that it will automatically stop when fully rewound on the drum without stress on the flexible hose assembly.

2. LTX Flexible Hose:

- a. Hose shall be of an abrasion resistant type, constructed of a fire-retardant heat resistant fabric. Hose shall be double layer fabric with abrasion resistant wearstrip. Hose shall withstand exhaust temperatures up to 400°.
- b. A connecting flange is to be provided for bolt-up attachment of hose to storage reel.

3. Exhaust adapter - RSC:

- a. The exhaust adapter shall be molded of an advanced resin EPDM compound, having an adjustable over center clamp with tapered aluminum jaws for secure pipe attachment.
- b. Adapter and flange are to match hose diameter as indicated on plans and specifications and shall be attached to the hose at the factory to maintain the integrity of the assembly.

2.3 DIESEL LAB SYSTEM

A. CMB Hazardous Fume Exhaust Fan:

1. Hazardous fume exhaust fan shall be licensed to bear the AMCA seal for certified performance in accordance with AMCA Standard 210. The fan shall be single inlet, single width, Arrangement 10 and shall have a backward inclined fan wheel with single thickness flat blades. The fan wheel shall be statically and dynamically balanced before assembly. Any required balance weights shall be welded to the outside of the shroud or back plate; no weights are to be installed in the blade air stream. All surfaces of the centrifugal fan shall be painted completely with an acid resistant, polyester powder coating.
2. The bearings shall be of the pillow block type with cast steel frame and shall be bolted to the structural bearing supports. The fan shaft shall be fabricated of ground and polished cold drawn steel with machined centers and key slots for both the fan wheel and the drive sheave. It shall be given a rust inhibitive asphaltic coating after assembly. The V-belt drive shall be adjustable. The variable pitch sheave shall be factory set at the appropriate position to provide the specified capacity in the approximate midpoint of the adjustment range. All

fans shall be provided with a belt guard enclosing both sheaves and V-belts. The belt guard shall have a tachometer hole. All drives shall be rated for no less than 150% of motor load.

3. The scroll and side sheets of the fan housing shall be fabricated of cold rolled steel of 14-gauge minimum thickness. The scroll and side sheets shall be joined through continuous welding. Spot welded or standing seam construction is not acceptable. The fan housing shall have a minimum of 8 attachment studs with flange locking nuts. Any bolts, self-tapping screws or fasteners that protrude into the housing interior are not acceptable. The fan base shall be fabricated of cold rolled steel of 12-gauge minimum thickness. The bearing supports within the base shall be fabricated of cold rolled steel angles having a minimum 3/16" thickness and they shall be welded to the sides of the base. All seams in the individual components shall be continuous welded. The motor base shall be fabricated of cold rolled steel of 12-gauge minimum thickness. Its position shall be adjustable through the use of bolts that travel in slots in the sides of the fan base. A non-hardening, high elasticity caulking shall be applied during assembly between the mating surfaces of the inlet cone and the fan housing and of the fan housing and the fan base.
4. Test requirements:
 - a. The assembled fan shall be test run before shipment with "total frequency" vibration measured at each bearing in both the vertical and horizontal planes. Any fan having an average reading of over 3 mils deflection is not acceptable.
 - b. Balance report to be provided with installation and maintenance instructions.

B. Accessories:

1. 8" Hose Storage - TSR-S Spring Operated Hose Storage Reel:
 - a. The hose storage reel frame is to be comprised of formed 12 gauge and 2 x 2 x 1/8 square tubular steel and shall be of welded construction. The hose drum shall be constructed of 16 gauge steel welded to 12 gauge steel end plates, forming an airtight cylinder. The internal assembly, combined with a low resistance inlet, shall provide efficient airflow through the drum.
 - b. The flange-mounted flexible hose assembly shall be bolted to the air inlet of specified diameter; draw band connection is unacceptable. The drum shall be supported at one end by a 1" internally gusseted steel shaft through a heavy cast frame platform bearing, and at the other end by a sealed rotating outlet fitting of a lubricious synthetic material. The hose reel must be of sufficient size to accommodate the specified hose. The outlet fitting diameter, hose length, hose diameter, shall be as shown on the plans and specifications.
 - c. The hose storage reel is to be fitted with an enclosed spring mechanism with balanced torque characteristics, factory tuned for hose type and length. Ratchet stops are to be provided so that the flexible hose assembly can be partially or completely extended. The reel is to be equipped with a spring-loaded mechanical stop mechanism that limits the number of drum rotations so that it cannot be over extended, and so that it will automatically stop when fully rewound on the drum without stress on the flexible hose assembly.
2. Flexible hose - HTC:

- a. Hose shall be fabricated of silicone coated glass fabric inner layer and silicone coated nomex outer layer, clinched with an external galvanized steel helix. No adhesives may be used in the construction. The flexible hose is to be capable of withstanding temperatures of 1000°F interior, and be both flame retardant and oil resistant.
 - b. A connecting flange is to be provided for bolt-up attachment of hose to storage reel.
3. Exhaust adapter - CTA:
- a. The exhaust adapter shall be of 20 gauge stainless steel construction including an adjustable, over center clamp with tapered aluminum jaws for secure pipe attachment.
 - b. The adapter and flange are to match the hose diameter as indicated on plans and specifications and shall be attached to the hose at the factory to maintain the integrity of the assembly. Field assembly is not acceptable.
4. 6" Hose Storage - LFT spring retractor and TS hose sling:
- a. The flexible hose suspension system shall support the flexible hose from overhead when not in use, allowing it to be lowered to the operating level when required.
 - b. The lifting device shall be a single spring retractor with ratchet stop and ¼" steel suspension frame with cast eyelet and heavy-duty snap ring. The retractor shall include a safety chain for field attachment.
 - c. The retractor shall be capable of lifting at least 25 pounds with 25' of travel.
 - d. The hose sling shall be constructed of a double weave, nylon reinforced, EPDM material, and shall have reinforced eyelets, a stainless-steel locking band, safety clip, and harness ring. It shall be manufactured to fit the diameter of the hose specified.

PART 3- EXECUTION

3.1 DUCT INSTALLATION

- A. Duct is to be constructed for negative pressure application.
- B. Girth joints of duct and elbows shall be made with a minimum 1" inner lap in the direction of airflow. Joints involving flexible fabric hose to include a hose adaptor to effect the inner lap. The flexible fabric hose shall be clamped to the adaptor.
- C. Duct and elbow joints shall be secured with three self-tapping sheet metal screws no longer than 5/8" or stainless-steel pop rivets, and be positioned at 12, 4 and 8 o'clock.
- D. Seal all duct joints with either caulk or hard cast type of sealant.
- E. Position cleanouts with the hinge at bottom center of the horizontal ductwork.

3.2 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for installation tolerances, service-utility connections, and other conditions affecting installation and performance of equipment. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.3 PREPARATION

- A. Provide surface/substrate preparation as required by the manufacturer's printed installation instructions. Do not proceed with installation until site is in proper condition to receive the S-Series Dust Collector.

3.4 INSTALLATION

- A. Install equipment in accord with manufacturer's written instructions, original design and referenced standards.

3.5 ADJUSTING

- A. Adjust all components (fans, hose reels, etc.) if needed, for proper operation. Replace any parts that prevent the system from operating properly.

3.6 CLEANING

- A. Remove all debris caused by installation. Clean all exposed surfaces to as fabricated condition and appearance.

3.7 PROTECTION

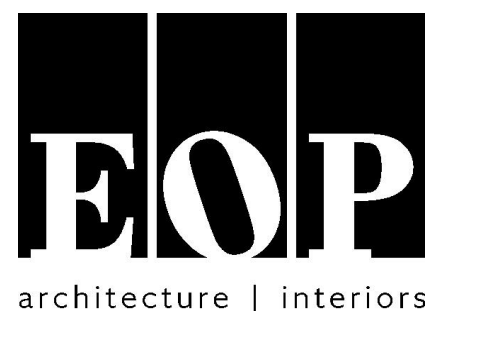
- A. Provide protection of the completed installation until completion of the project. Repair any damage at no additional cost to Owner.

3.8 DEMONSTRATION / TRAINING

- A. Provide the end user a minimum of one hour of hands-on demonstration and operation of the vehicle exhaust extraction system, hose reels and related equipment.

END OF SECTION 23 34 26

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/22	Revision 4



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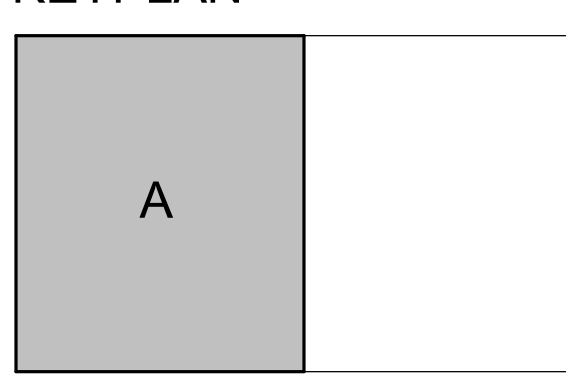
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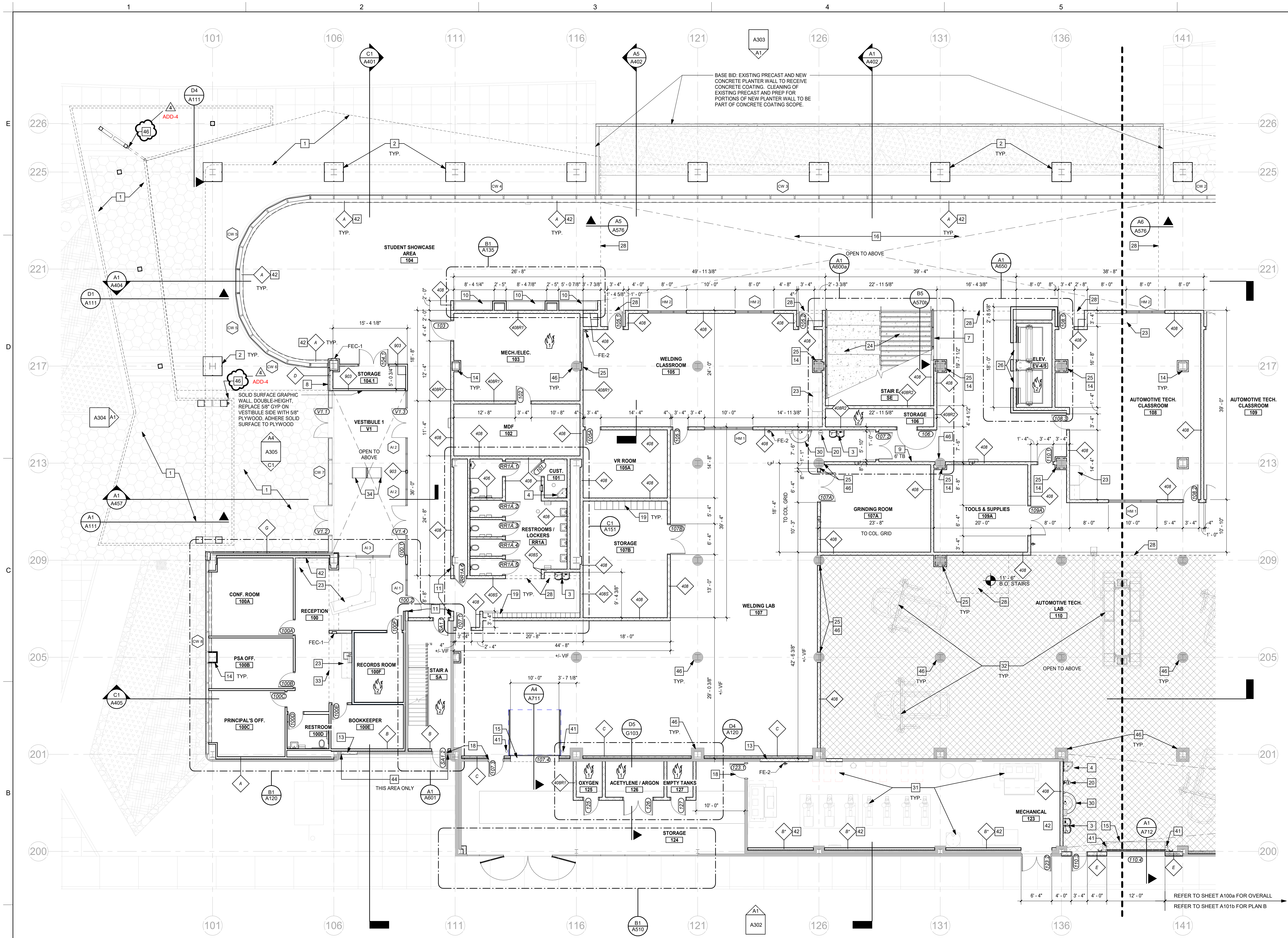


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None of this information shall be used by or disclosed to any person or entity for any reason whatsoever without the permission of EOP Architects.

Written dimensions shall have precedence over scale dimensions. Contractor shall verify and be responsible for all dimensions and conditions on the job. Notify EOP Architects immediately of any variation from the dimensions and conditions shown by these drawings.

Job Number 2150 PLAN
Drawn By Author
Checked By Checker
Date 09/28/2022



A1 LEVEL 1A FLOOR PLAN
A101a SCALE: 1/8" = 1'-0"

FLOOR PLAN LEGEND

- WALL TYPE. REFER TO SHEET A050 FOR TYPES. REFER TO G103 & G104 FOR FIRE OR SMOKE RATINGS WHERE APPLICABLE
- ALUM. CURTAIN WALL. ALUM. STOREFRONT, OR H.M. STOREFRONT, REFER TO WINDOW SHEETS A700 - A725
- DOOR TAG. REFER TO DOOR SCHED. & TYPES ON SHEETS A700 & A700A
- FIRE-RATED ENCLOSURE:
"F" DENOTES RATING IN HOURS
"S" DENOTES SMOKE-RATED ENCLOSURE W/ ALL SURROUNDING WALLS TAKEN FULL HEIGHT TO DECK & FIRE-PROOFED
- FEC-1 FULLY-RECESSED CABINET AND FIRE-EXTINGUISHER
- FEC-2 BRACKET-MOUNTED FIRE EXTINGUISHER
- FEC-3 BRACKET-MOUNTED K-TYPE FIRE EXTINGUISHER
- EJ-1 COMPRESSIBLE EXPANSION JOINT - REFER TO SPECS
- EJ-2 MUD-IN EXPANSION JOINT - REFER TO SPECS
- SHEET NOTE
- EXIST. WALL TO REMAIN, REPAIR & PAINT AS REQ.
- EQUIPMENT TAG
- NOTE: FINISHED MOUNTING HEIGHT OF FIRE-EXTINGUISHER HANDLE SHALL BE 48" A.F.F. MAX.

GENERAL NOTES

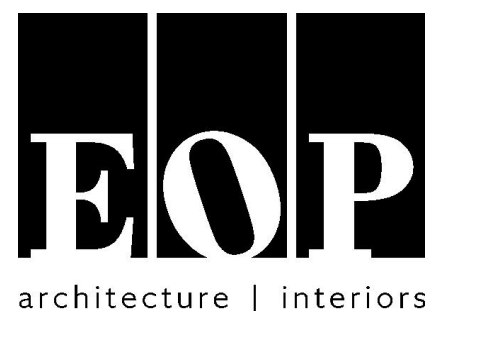
- A. REFER TO CIVIL FOR SITE INFORMATION, TYP.
- B. REFER TO SHEET A050 FOR WALL TYPE INFORMATION.
- C. TYP. DIMENSIONS TAKEN FROM RIGHT & TOP FACE OF MASONRY OR RIGHT & TOP FACE OF METAL STUD, UNLESS NOTED OTHERWISE.
- D. ANY DIMENSIONS TO / FROM EXIST. WALLS SHOULD VERIFIED IN FIELD.
- E. REFER TO A800 SHEETS FOR ROOM FINISH INFORMATION.
- F. PROTECT EXIST. SILOS & FOUNDATIONS FROM ALL CONSTRUCTION ACTIVITIES.

FLOOR PLAN SHEET NOTES

- 1 ROOF OR CANOPY ABOVE. REFER TO ROOF PLAN & CANOPY DETAILS.
- 2 NEW EXTERIOR COLUMN WRAP. REFER TO COLUMN DETAILS.
- 3 H/ L LOW DRINKING FOUNTAINS W/ BOTTLE FILLER. REFER TO PLUMBING.
- 4 MOP SINK W/ BROOM / MOP RACK MOUNTED ABOVE. REFER TO PLUMBING.
- 5 OPERABLE PARTITION. REFER TO DETAILS & SPECS.
- 6 NEW ELEVATOR CABS IN EXIST. SHAFT. REFER TO ENLARGED PLANS & DETAILS.
- 7 CUSTOM STEEL RAILING. REFER TO DETAILS ON A570 SHEETS.
- 8 KNOX BOX. REFER TO SPECS.
- 9 PARTITIONS W/ DOORS FOR CHANGING STALLS. REFER TO SPECS.
- 10 DISPLAY CASES. REFER TO DETAILS.
- 11 NEW WALLS TO ALIGN W/ ADJACENT EXIST. WALLS.
- 12 SHIPS LADDER FOR ROOF HATCH ABOVE. REFER TO ROOF DETAILS & SPECS.
- 13 NEW WALL TO BE INFILLED IN EXIST. OPENING. MATCH ADJACENT WALL FINISHES.
- 14 NEW CMU OR GYP. COLUMN WRAP. REFER TO SHEETS A130a - A130b FOR DETAILS.
- 15 NEW OVERHEAD / SECTIONAL DOOR. REFER TO DOOR SCHED. PATCH & REPAIR ADJ. EXIST. WALLS WHERE APPLICABLE.
- 16 EXIST. NEWSPAPER TRACKS TO BE PRESERVED & CLEANED. REFER TO DETAILS.
- 17 NEW KITCHEN EQUIPMENT THIS AREA. REFER TO KITCHEN PLANS.
- 18 NEW FRAME, DOOR & HARDWARE TO BE INSTALLED IN EXIST. DOOR OPENING. VERIFY EXACT LOCATION IN FIELD. PATCH & REPAIR ADJ. EXIST. WALLS AS REQ.
- 19 NEW LOCKERS. SIZES VARY. REFER TO SPECS.
- 20 FLOOR-MOUNTED EYE WASH STATION W/ OR W/OUT SHOWER. REFER TO PLUMBING.
- 21 METAL STUD BULKHEAD BELOW. REFER TO DETAILS.
- 22 BUILT-IN CASEWORK. REFER TO ENLARGED F.F.E. PLANS. FOR ELEV. & DETAILS.
- 23 SOCIAL STAIR ADJACENT TO TYPICAL STAIR. REFER TO DETAILS.
- 24 SOAP CMU AROUND EXIST. CONCRETE COLUMN. PATCH & REPAIR AS REQ.
- 25 NEW ELEVATORS & SHAFT. REFER TO ENLARGED PLANS & DETAILS.
- 26 CUSTOM TUBE STEEL & WIRE MESH SCREEN AROUND VENDING. REFER TO DETAILS.
- 27 LINE OF WALL OR FLOOR ABOVE. REFER TO BUILDING SECTIONS.
- 28 NEW RAMP. REFER TO CIVIL DRAWINGS.
- 29 SINK WITH FOOT PEDAL. REFER TO PLUMBING.
- 30 MEP DUCTWORK OR EQUIPMENT. REFER TO MEP.
- 31
- 32 AUTOMOTIVE LIFT. REFER TO SPECS.
- 33 LINE OF SOFFIT ABOVE. REFER TO RCP.
- 34 METAL DETECTORS. REFER TO SPECS.
- 35 NEW EXT. OVERHEAD DOOR W/ DOCK LEVELER, DOCK SEALS, & BUMPERS. REFER TO DOOR SCHED.
- 36 VENDING MACHINES. CPCL.
- 37 BUILDING EXPANSION JOINT. TYP. AT GRID LINE 156. REFER TO DETAILS.
- 38 BEACHER SEATING SYS. REFER TO SPECS. PROVIDE BLKS. IN STUD WALL PER MFR REQ.
- 39 SOUNDPROOF CABLE WALL PASSTHROUGH.
- 40 HAND SINK. REFER TO PLUMBING.
- 41 BOLLARD. TYP. AT OVERHEAD DOOR LOCATIONS ON BOTH SIDES. CONCRETE FILL.
- 42 IMPACT RESISTANT GYP. BD. TO 5.0 A.F.F. OR STOP AT WINDOW SILL WHERE APPLICABLE.
- 43 IMPACT RESISTANT GYP. BD. TO 12.0 A.F.F.
- 44 PATCH & REPAIR AS NEEDED. APPLY PARGE COAT FINISH TO NEW CMU TO MATCH EXIST.
- 45 PROVIDE 1/2" SOLID SURFACE SHIP LUG
- 46 DOWNSPROUT FROM DOWNSPROUT TO THE BUILDING

10/28/2022 2:41:56 AM

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KEYPLAN

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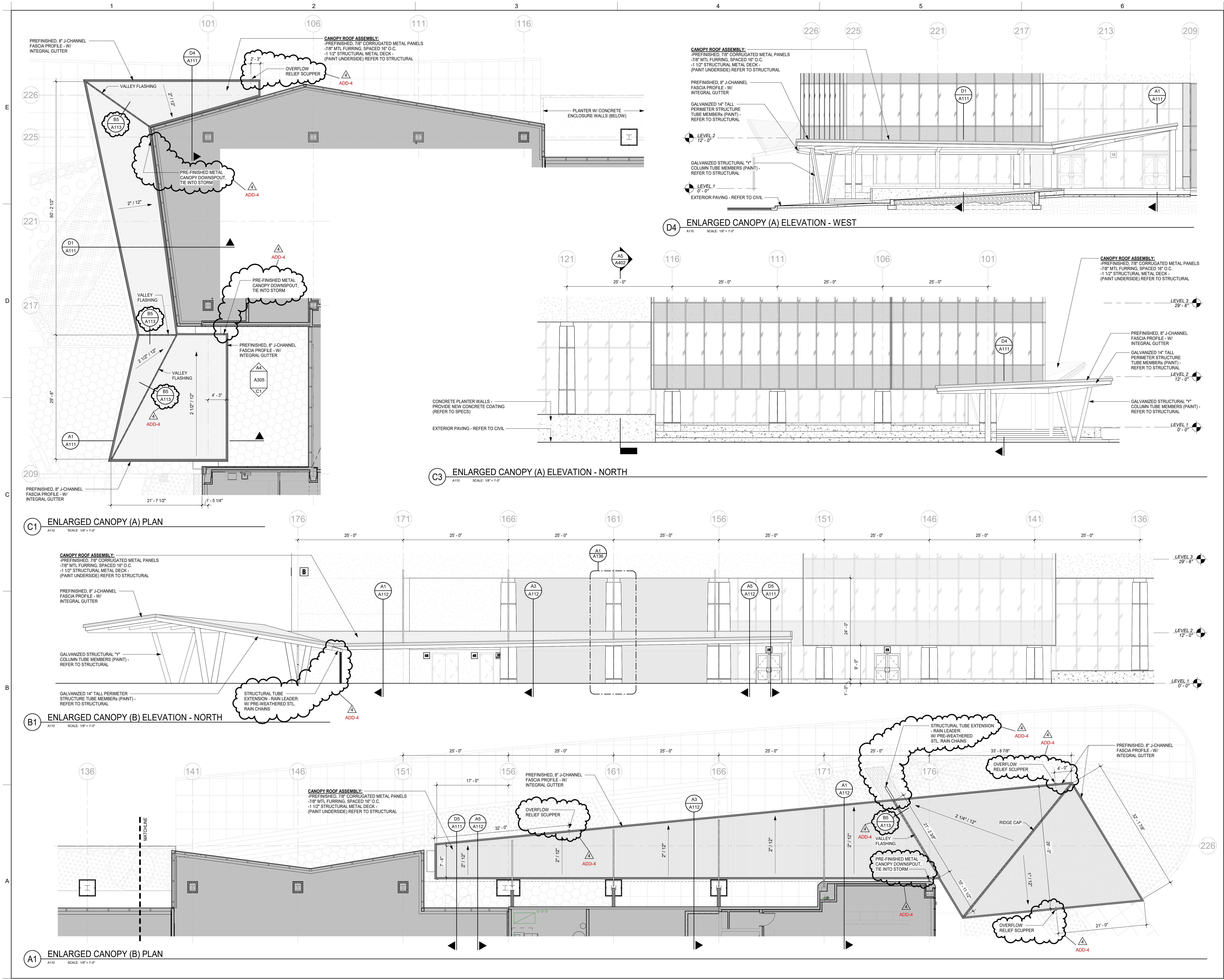
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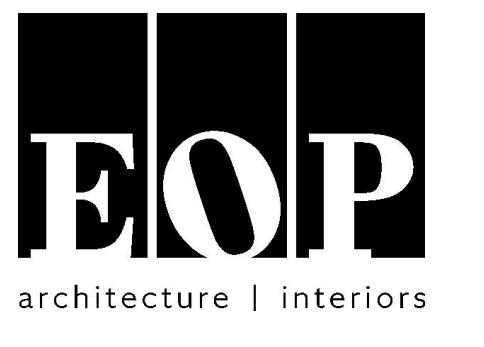
CANOPY PLANS & ELEVATIONS

A110



10/26/2022 8:35:09 AM

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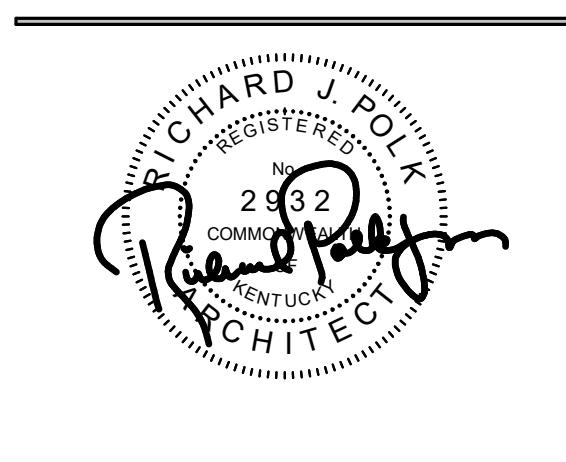
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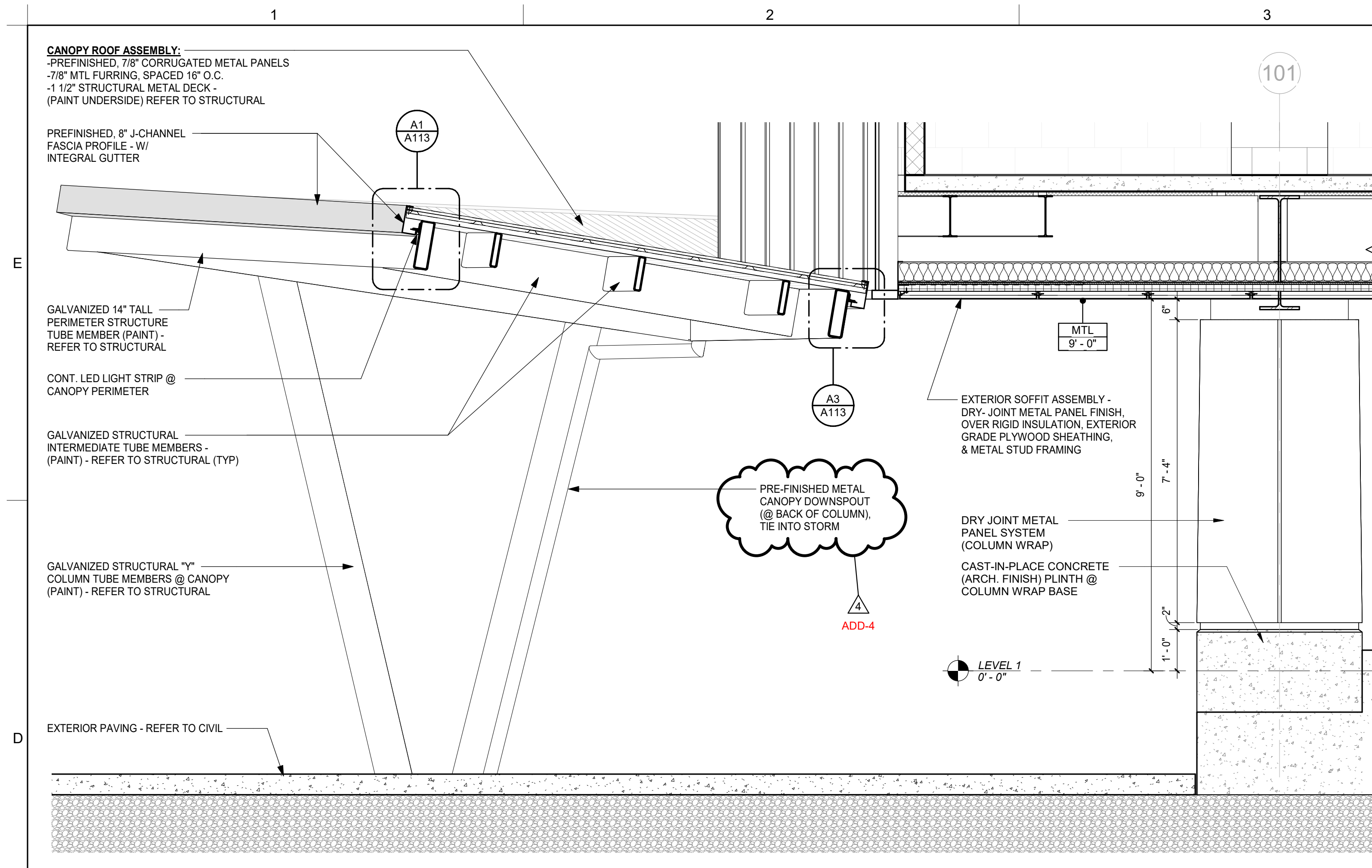
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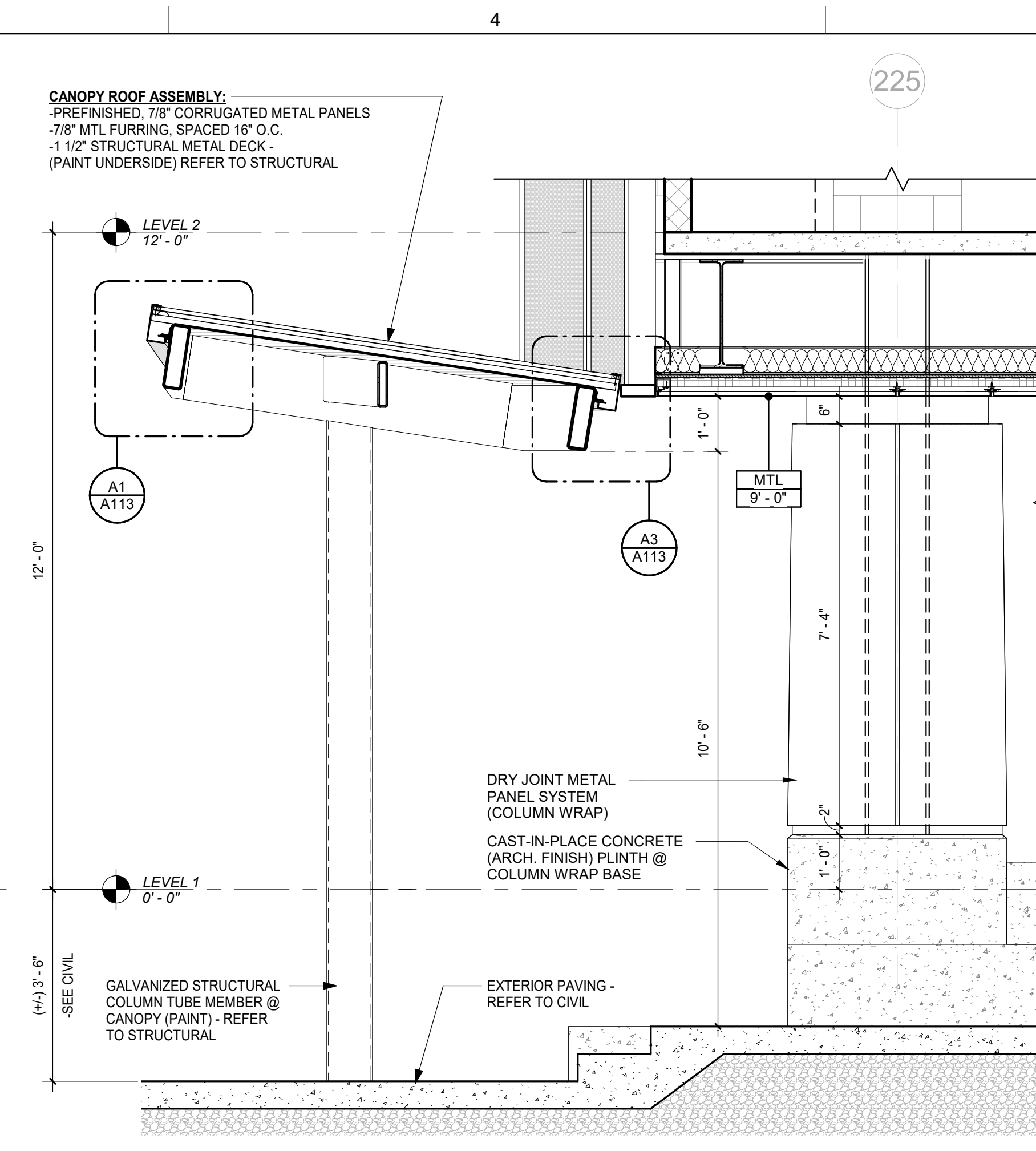


CANOPY SECTIONS & DETAILS

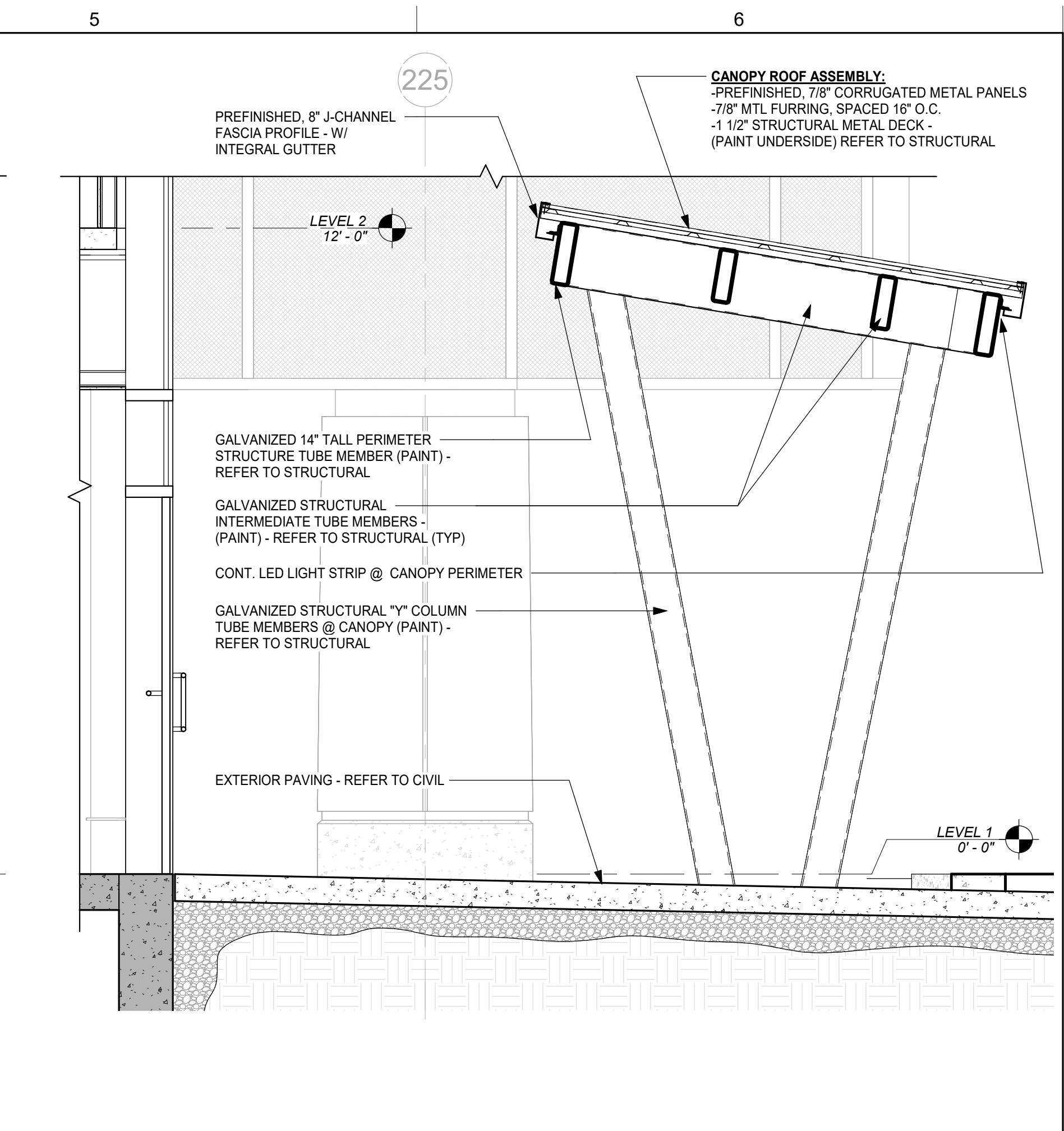
A111



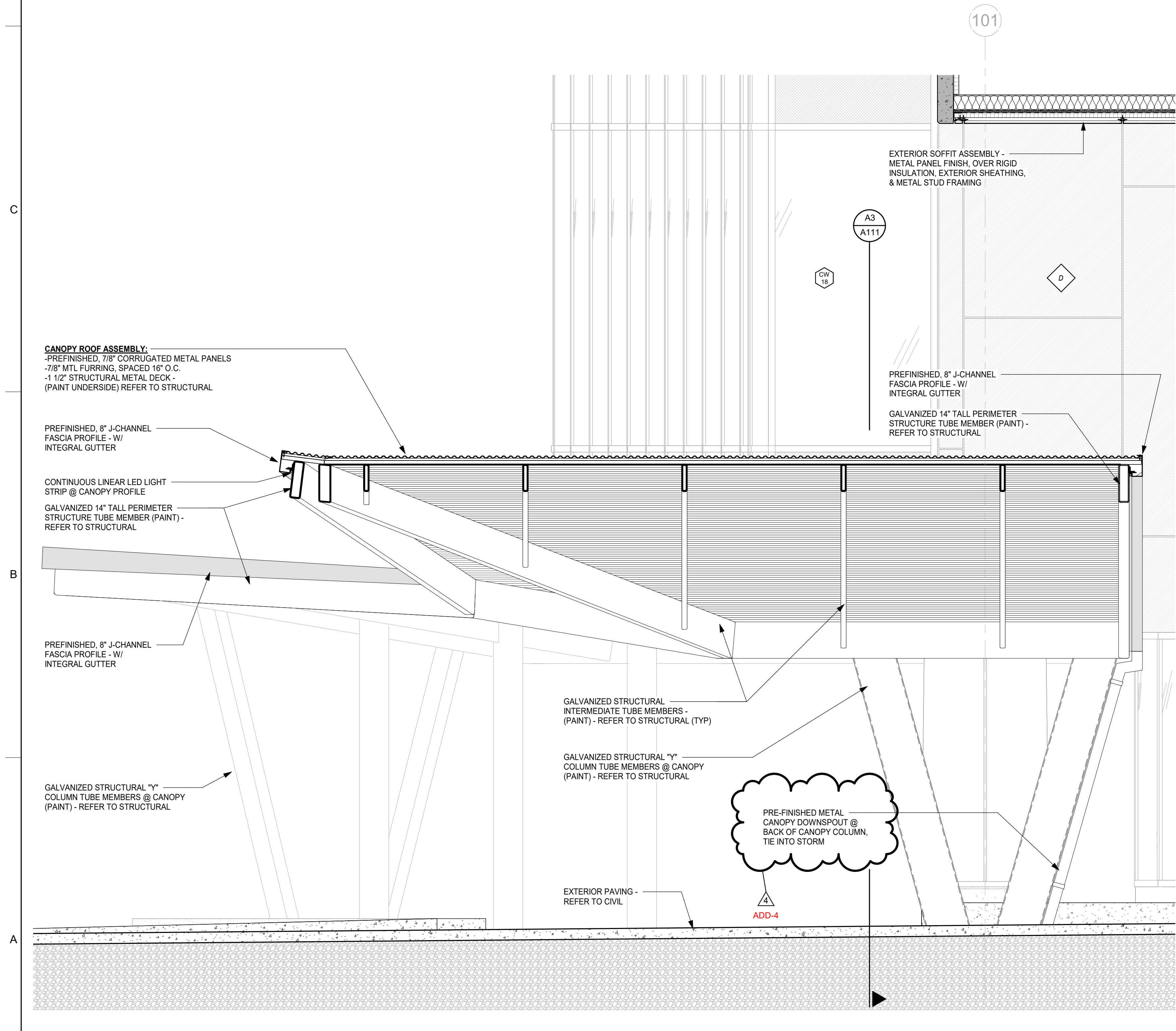
D1 CANOPY SECTION
A111 SCALE: 1/2" = 1'-0"



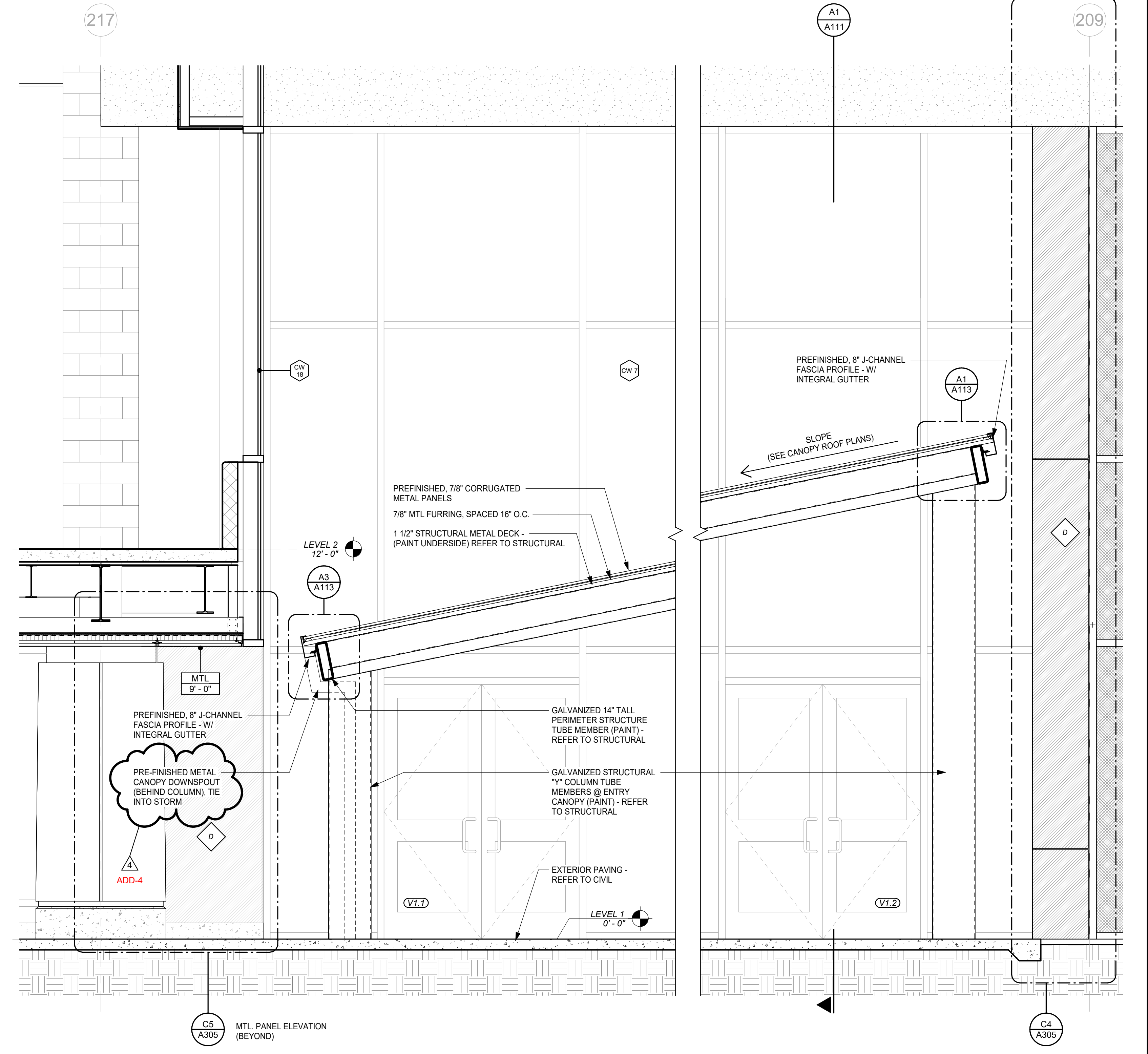
D4 CANOPY SECTION
A111 SCALE: 1/2" = 1'-0"



D5 CANOPY SECTION
A111 SCALE: 1/2" = 1'-0"



A1 CANOPY SECTION
A111 SCALE: 1/2" = 1'-0"



A3 CANOPY SECTION
A111 SCALE: 1/2" = 1'-0"

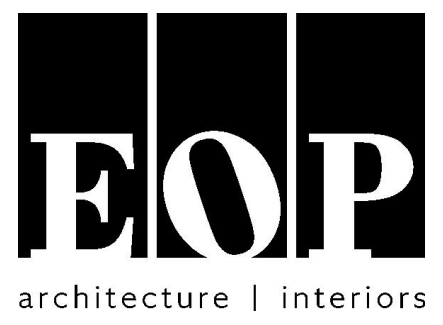
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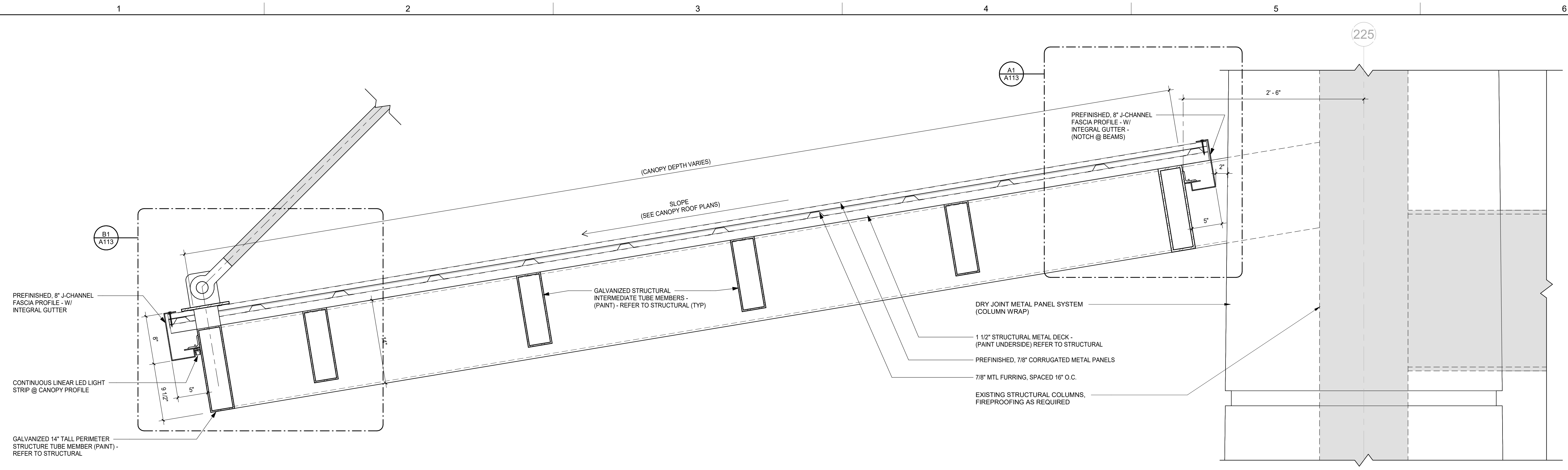
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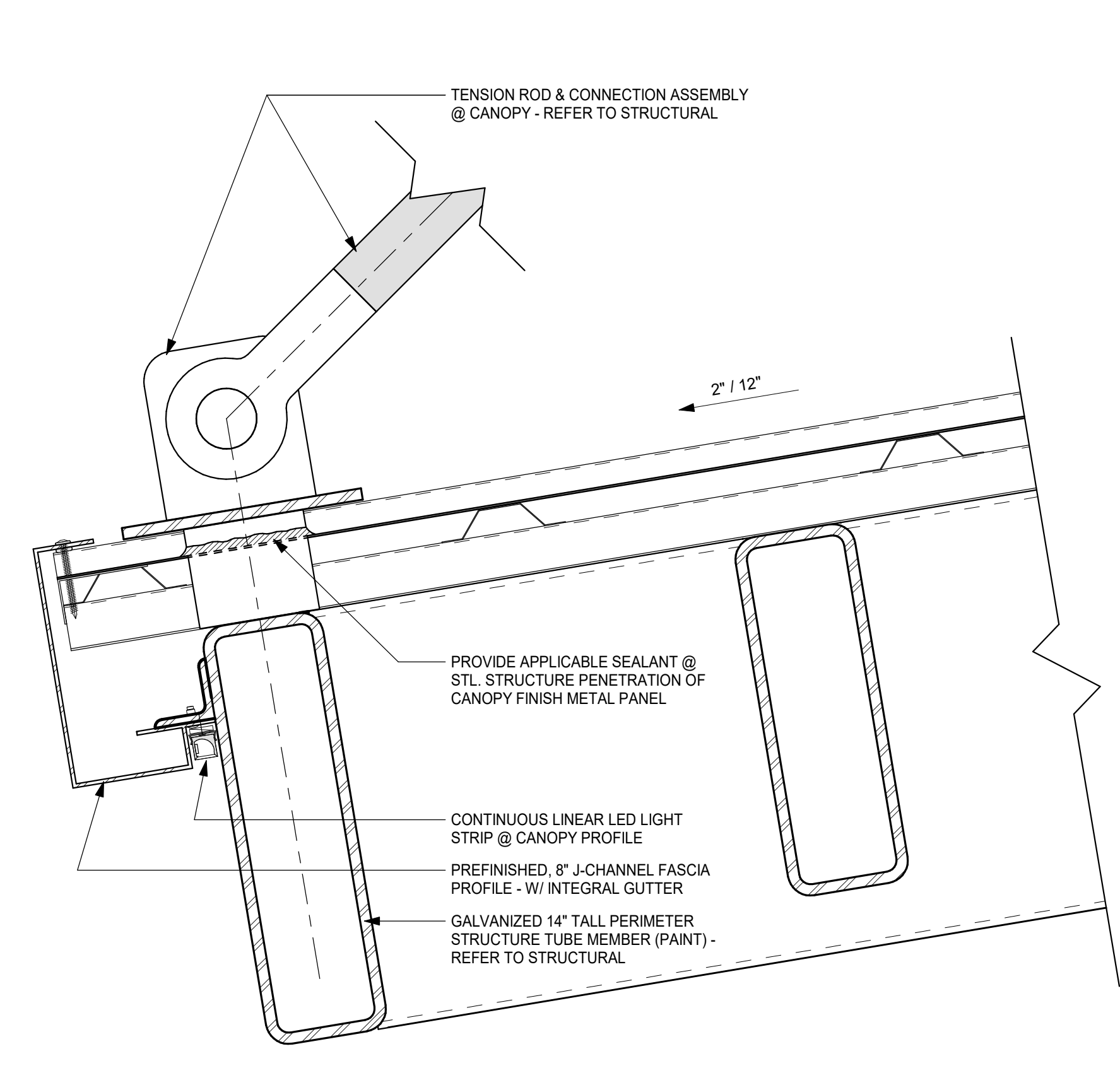


CANOPY DETAILS

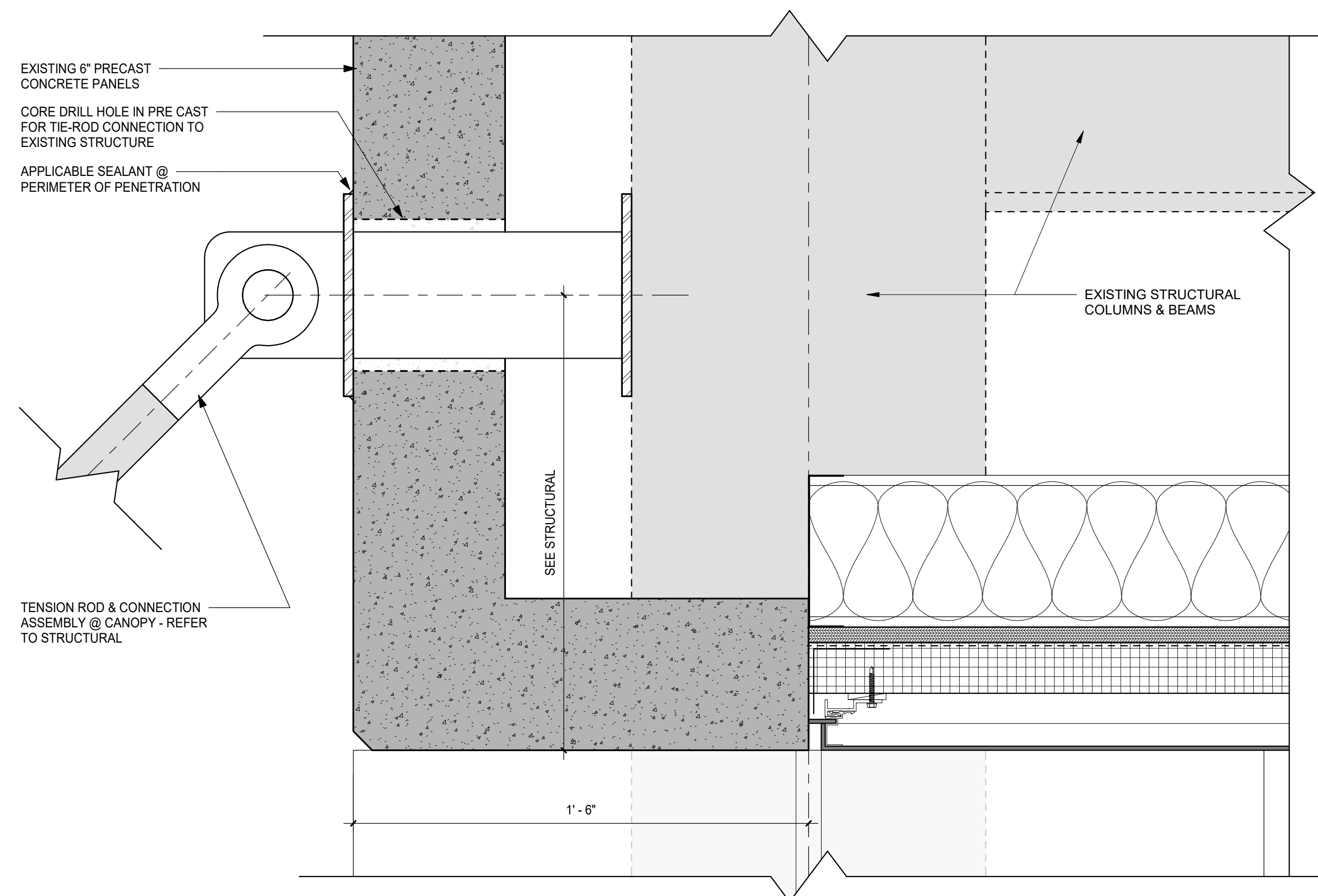
A113



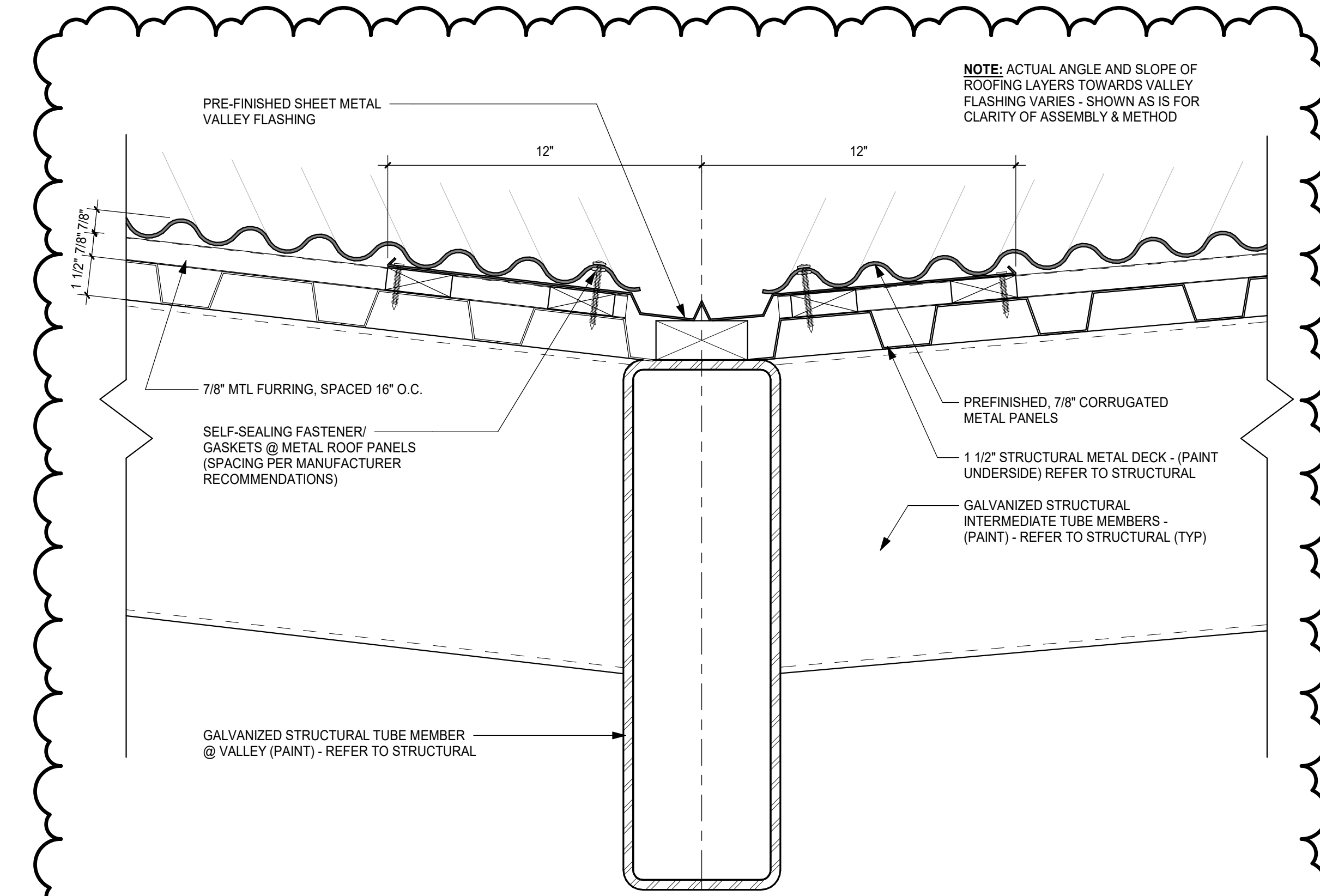
D1 ENLARGED CANOPY SECTION DETAIL @ COLUMN CONNECTION
A113 SCALE: 1/4" = 1'-0"



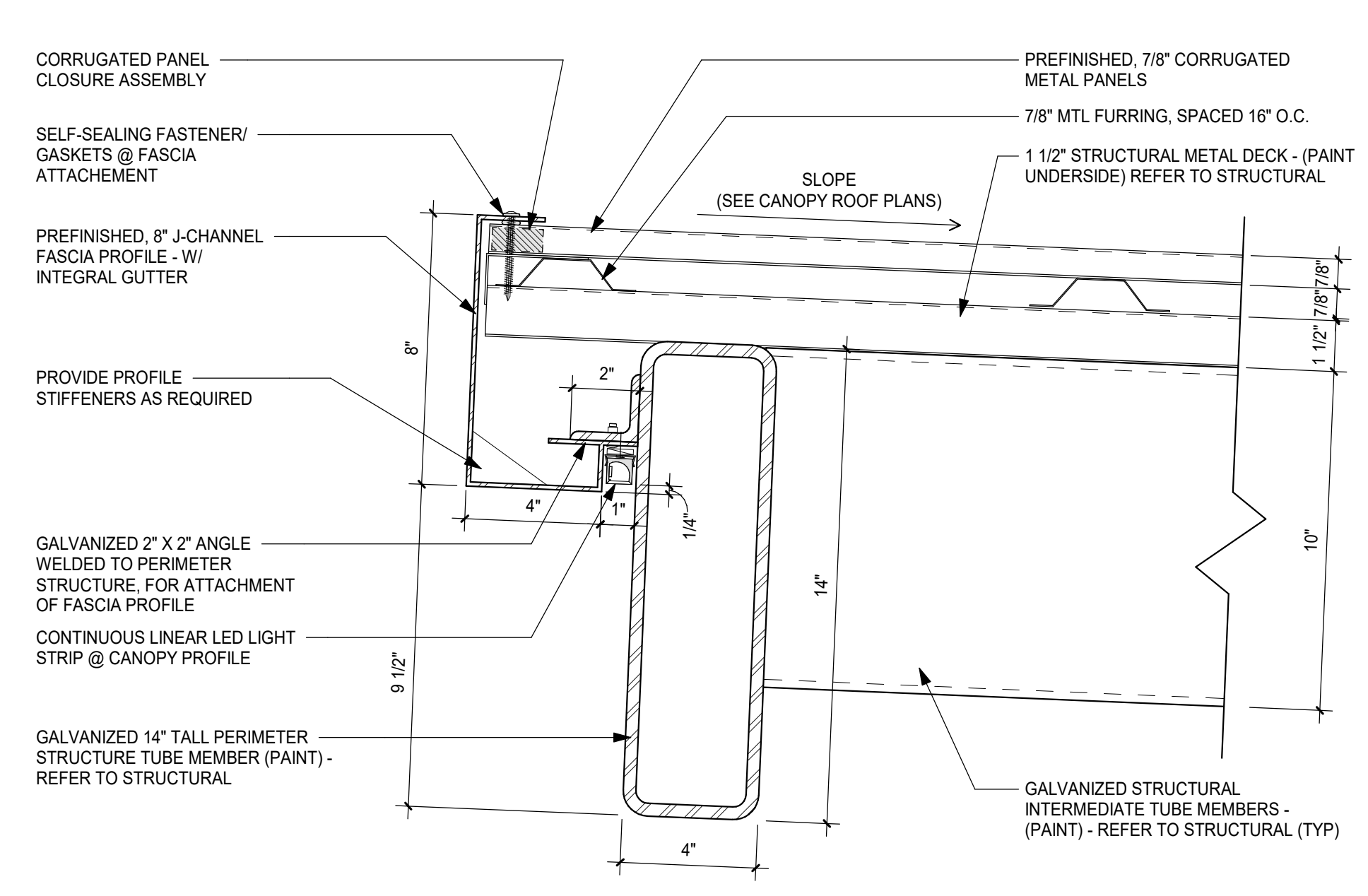
B1 TIE-ROD CONNECTION @ CANOPY
A113 SCALE: 3/4" = 1'-0"



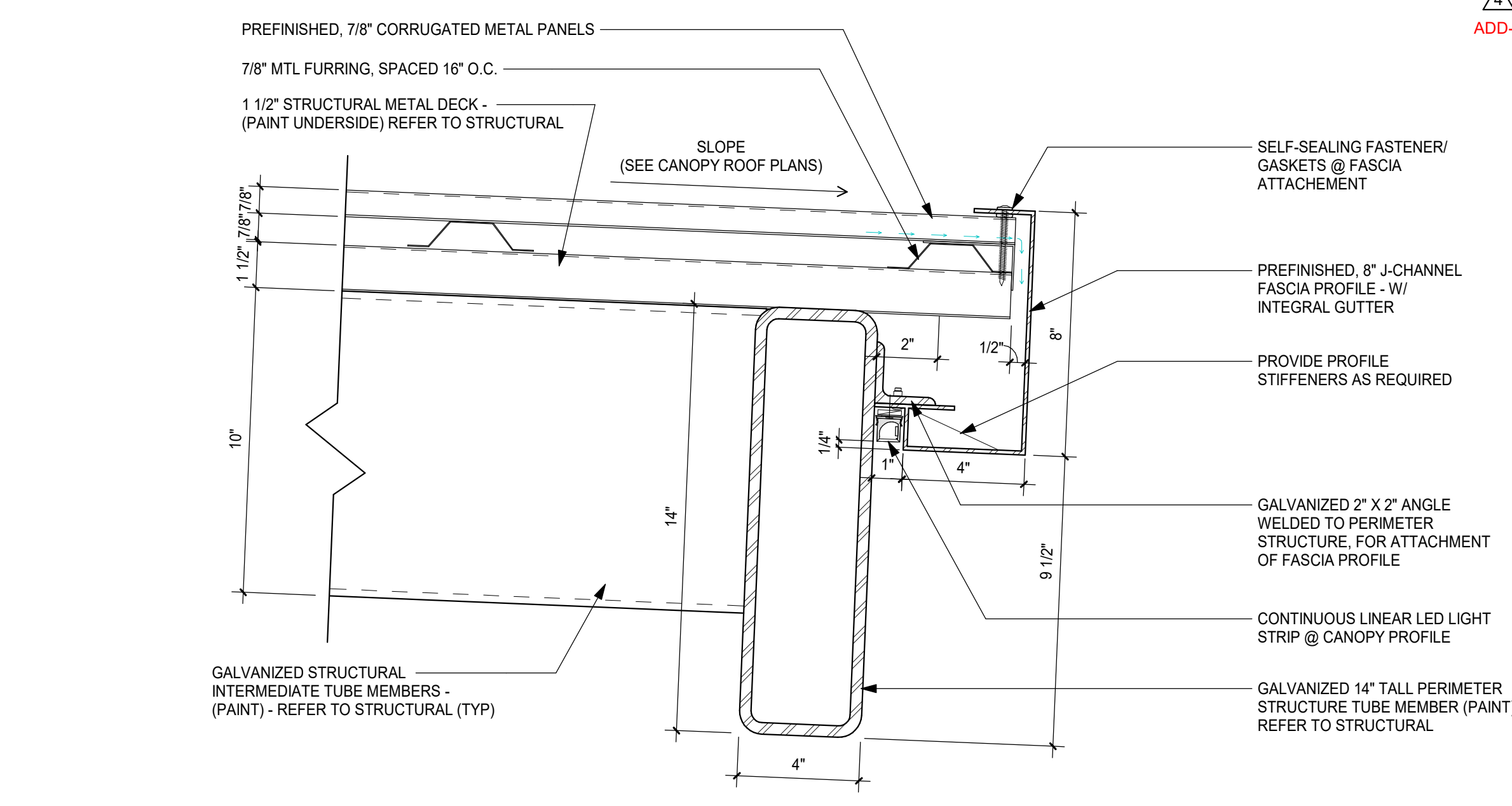
B3 TIE-ROD CONNECTION @ PRECAST CONCRETE
A113 SCALE: 3/4" = 1'-0"



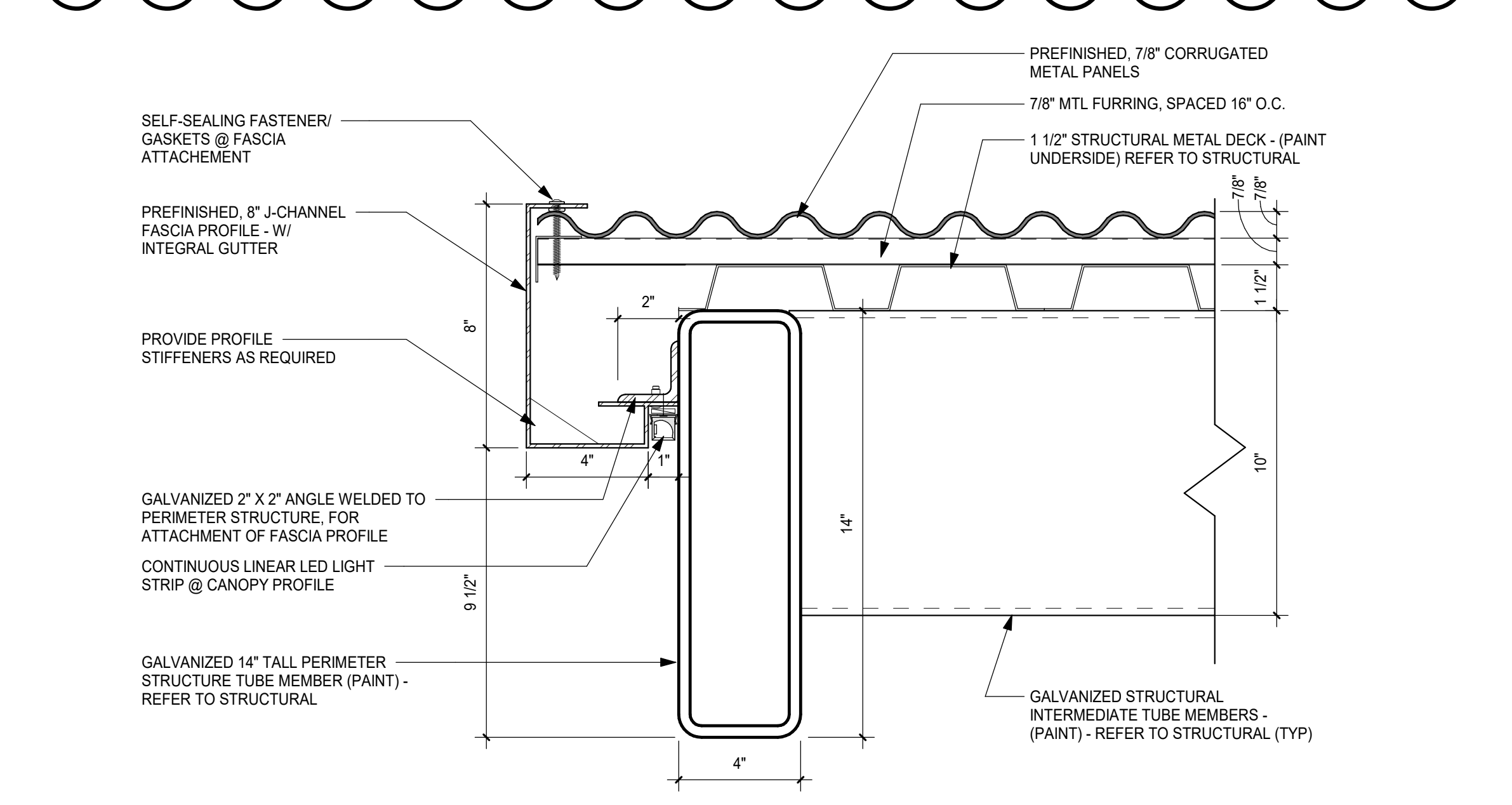
B5 ENLARGED CANOPY DETAIL - VALLEY
A113 SCALE: 3/4" = 1'-0"



A1 ENLARGED CANOPY DETAIL - EAVE COPING DETAIL (LATITUDINAL)
A113 SCALE: 3/4" = 1'-0"



A3 ENLARGED CANOPY DETAIL - GUTTER DETAIL
A113 SCALE: 3/4" = 1'-0"



A5 ENLARGED CANOPY DETAIL - EAVE COPING DETAIL (LONGITUDINAL)
A113 SCALE: 3/4" = 1'-0"

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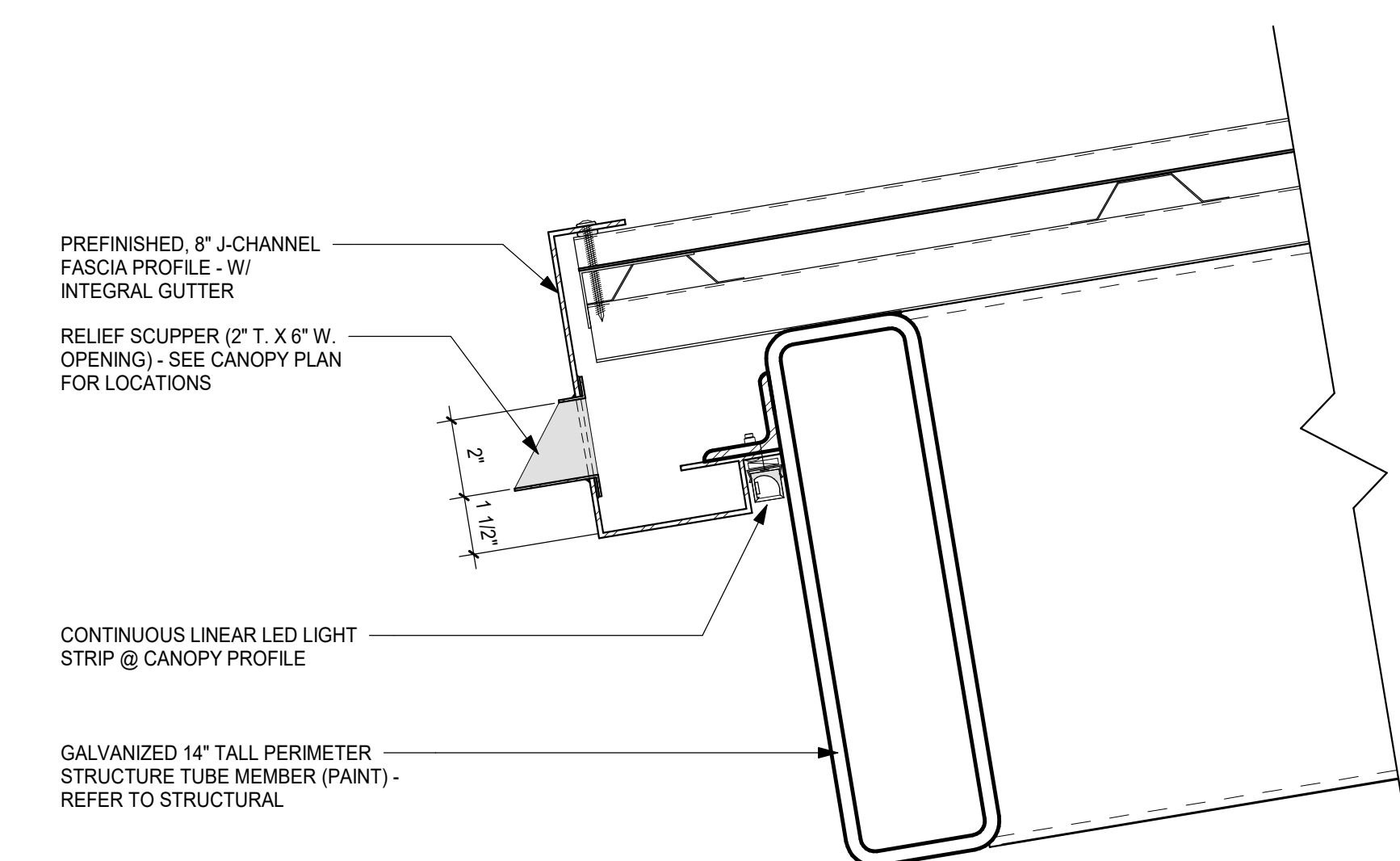
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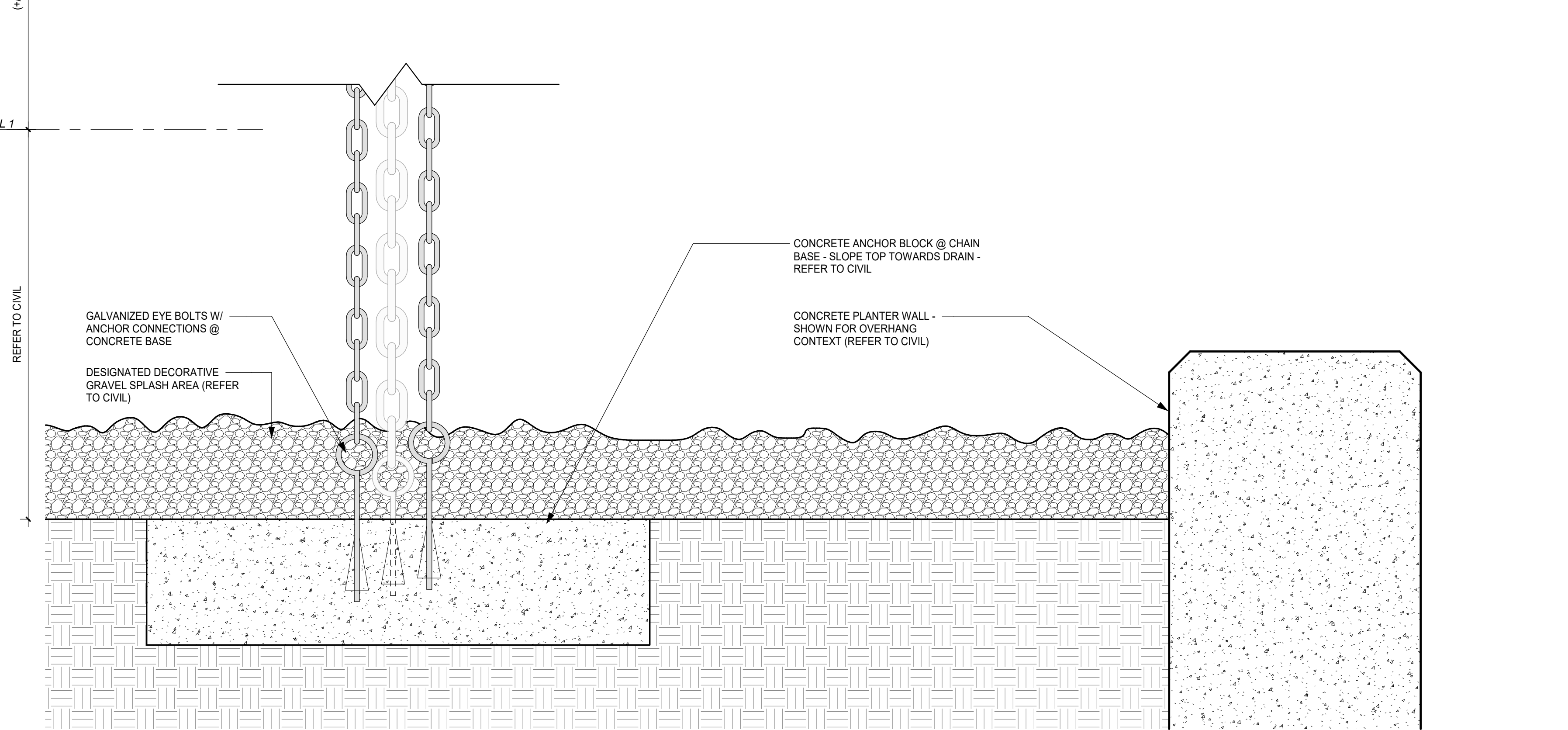
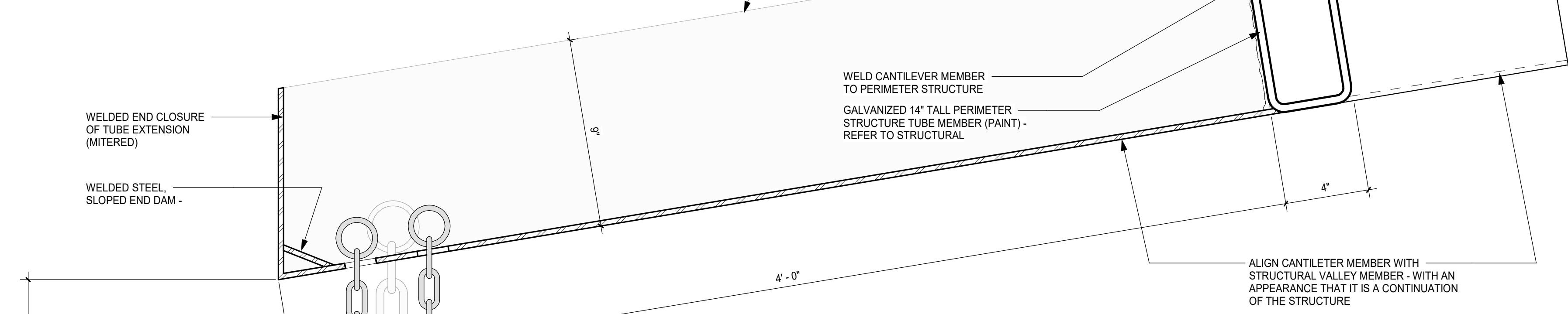
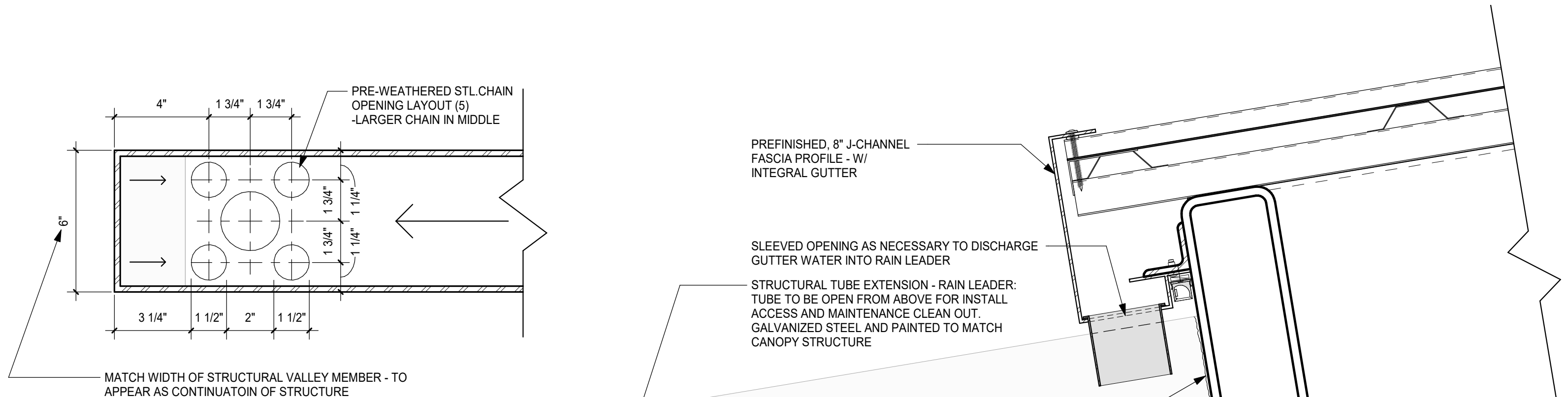


CANOPY DETAILS

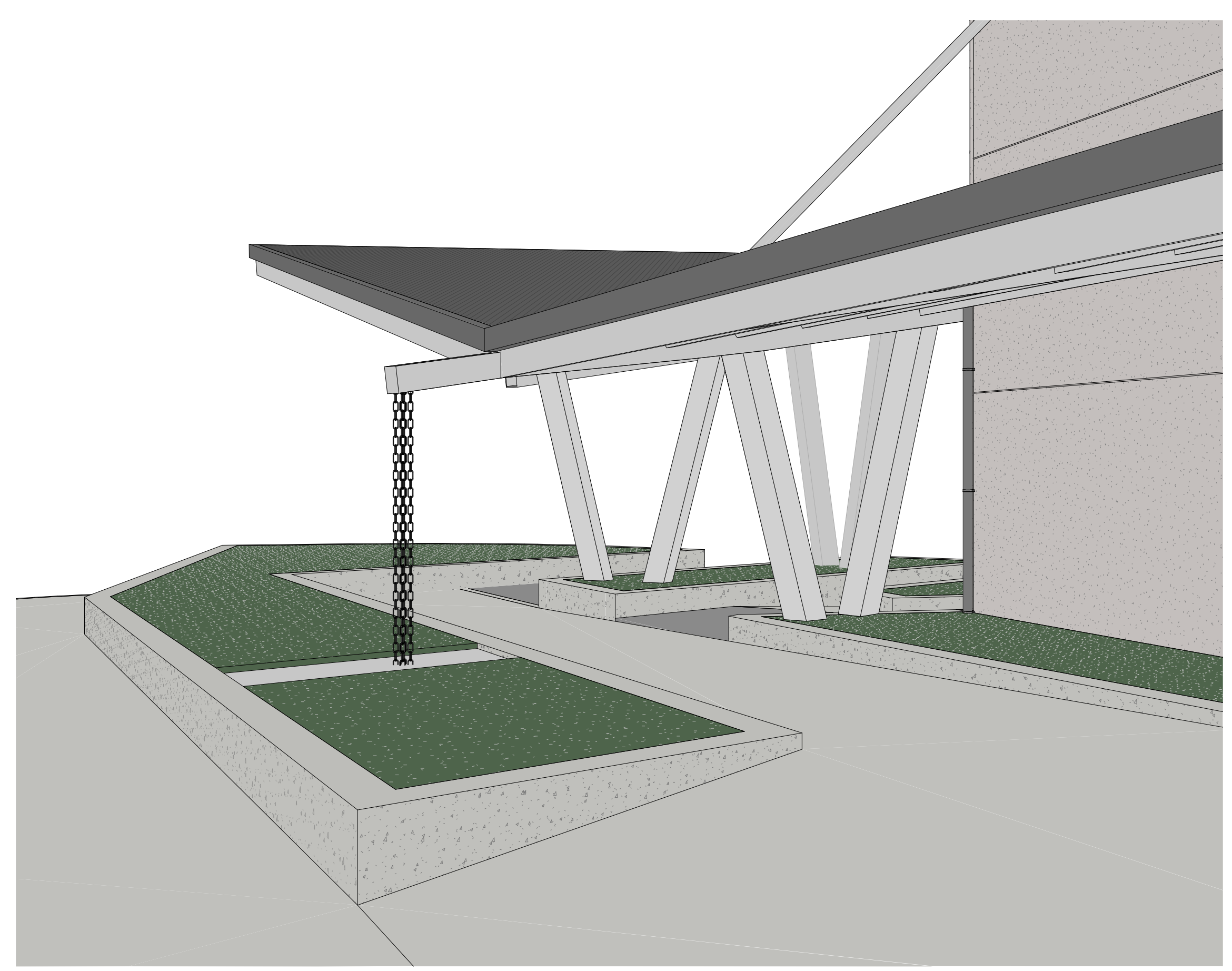
A114
ADD-4



E5 RELIEF SCUPPER @ CANOPY
A114 SCALE: 3" = 1'-0"



3A CANOPY DRAINAGE DETAIL - RAIN CHAIN ASSEMBLY
A114 SCALE: 3" = 1'-0"



A1 3-D VIEW - CANOPY RAIN CHAIN DESIGN
A114 SCALE: 3" = 1'-0"

(VIEW SHOWN FOR DESIGN CONTEXT ONLY) - ACTUAL SITE DESIGN MAY DIFFER, REFER TO CIVIL

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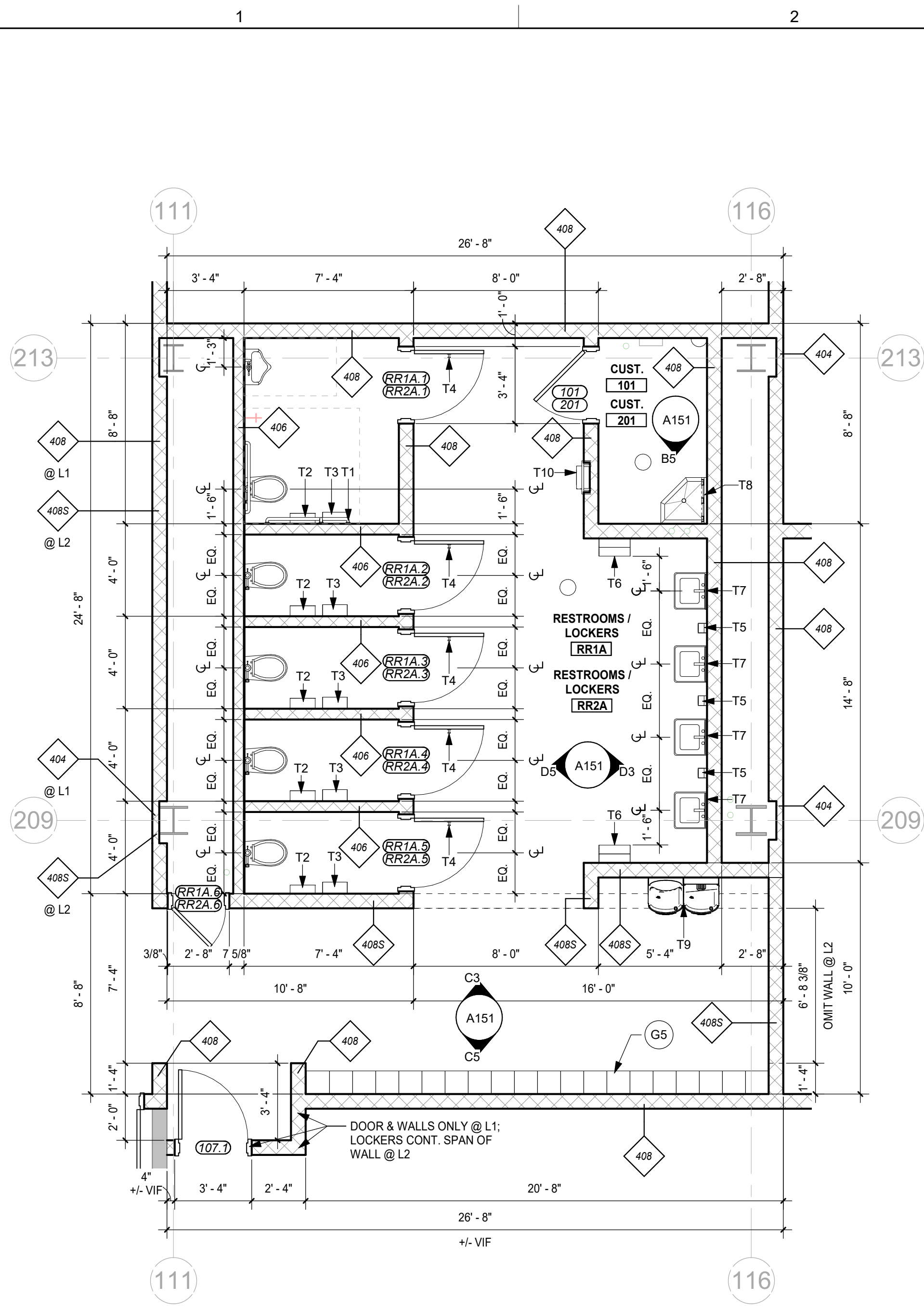
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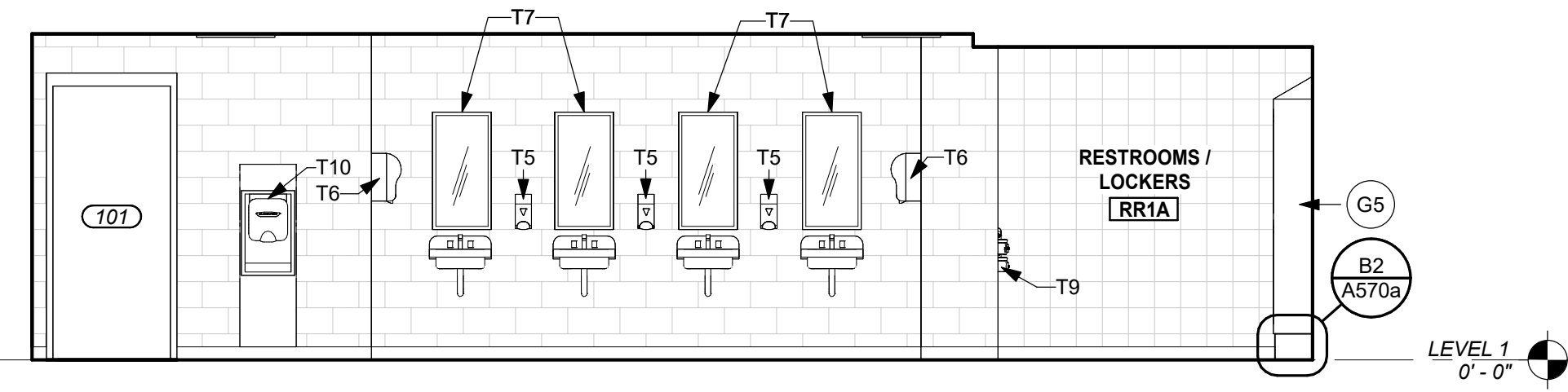


LEVEL 1&2 ENLARGED RESTROOM PLANS & ELEVATIONS

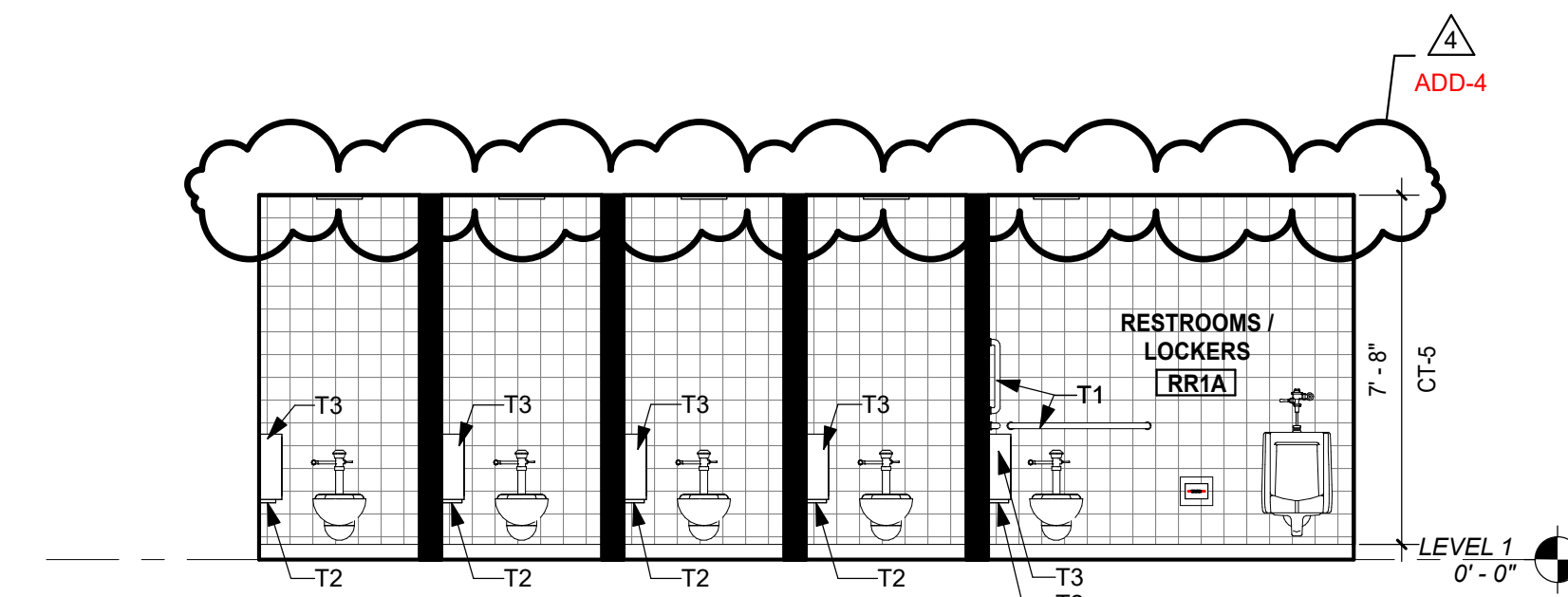
A151



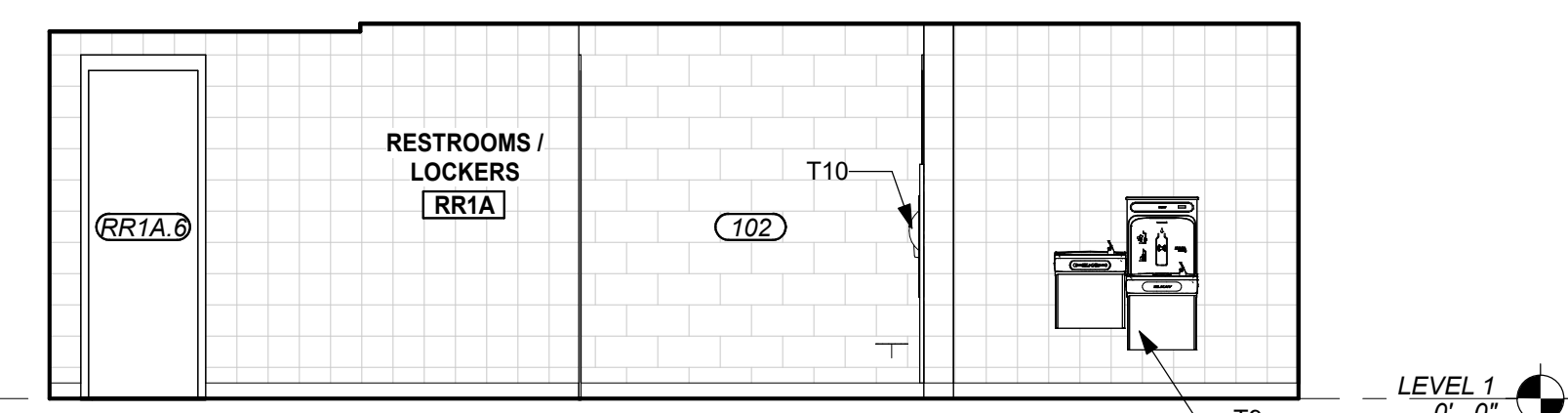
C1 ENLARGED PLAN - RESTROOM LEVEL 1&2 WEST
A151 SCALE: 1/4" = 1'-0"



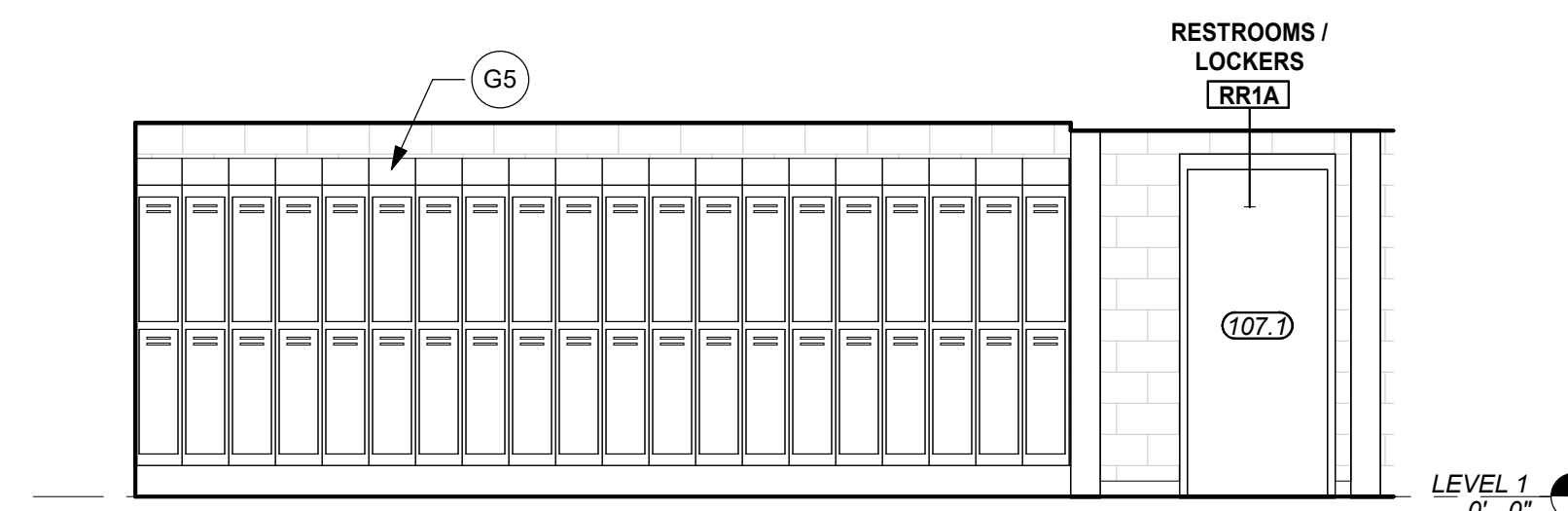
D3 ELEVATION - RESTROOM LEVEL 1&2 WEST
A151 SCALE: 1/4" = 1'-0"



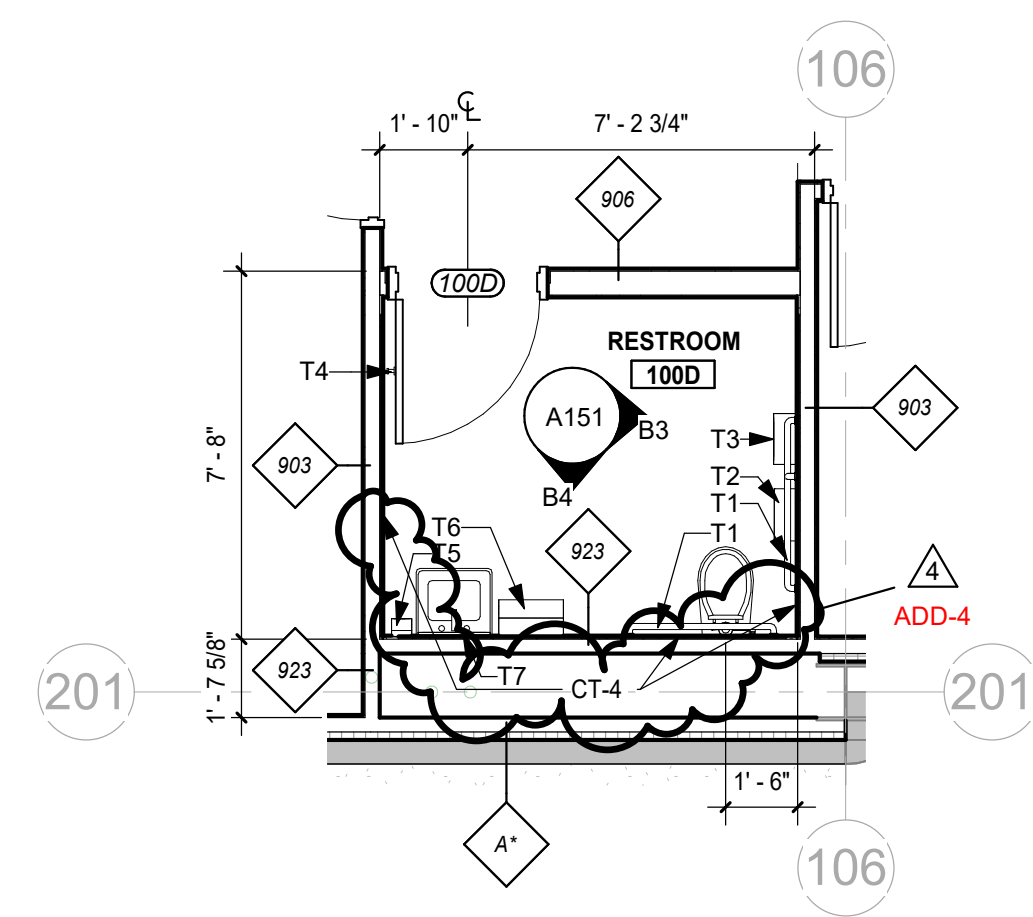
D5 ELEVATION - RESTROOM LEVEL 1&2 WEST
A151 SCALE: 1/4" = 1'-0"



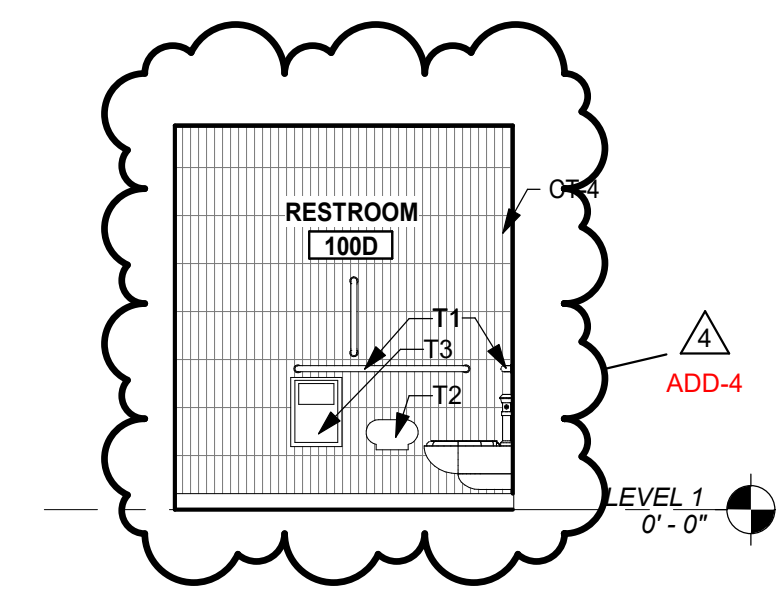
C3 ELEVATION - RESTROOM LEVEL 1&2 WEST
A151 SCALE: 1/4" = 1'-0"



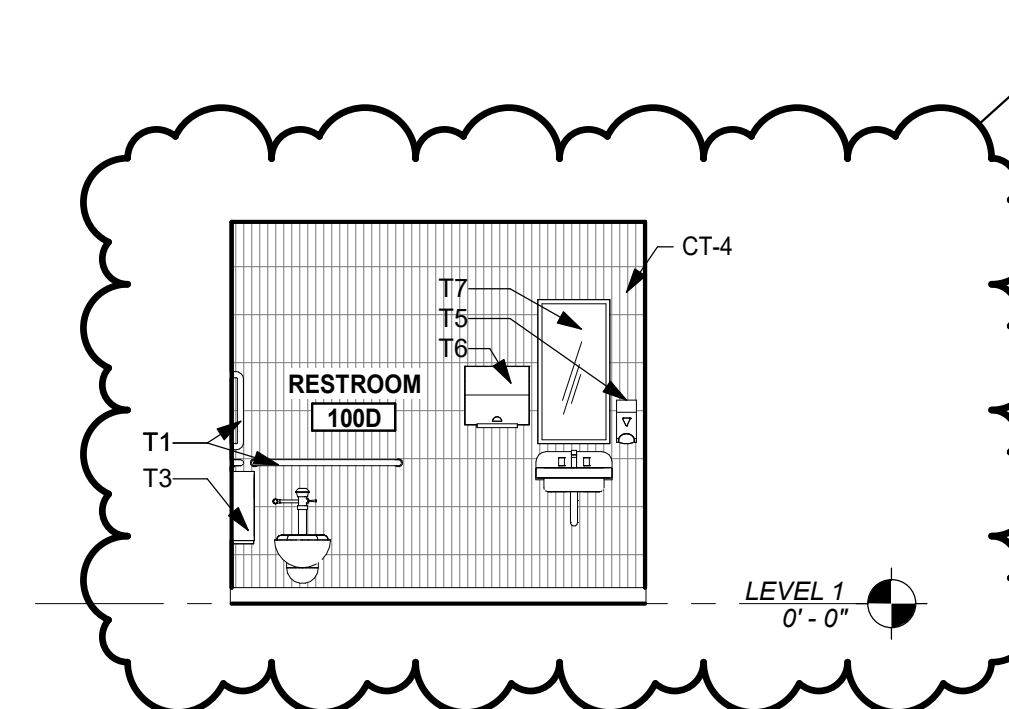
C5 ELEVATION - RESTROOM LEVEL 1&2 WEST
A151 SCALE: 1/4" = 1'-0"



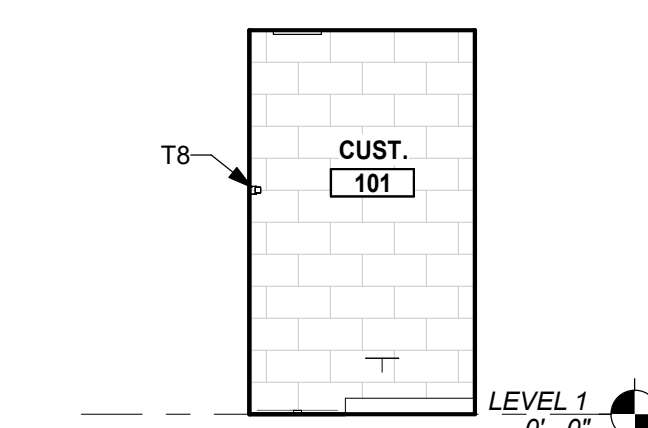
B1 ENLARGED PLAN - RESTROOM LEVELS 1&2 WEST ADMIN.
A151 SCALE: 1/4" = 1'-0"



B3 ELEVATION - RESTROOM LEVEL 1&2 WEST ADMIN RR
A151 SCALE: 1/4" = 1'-0"

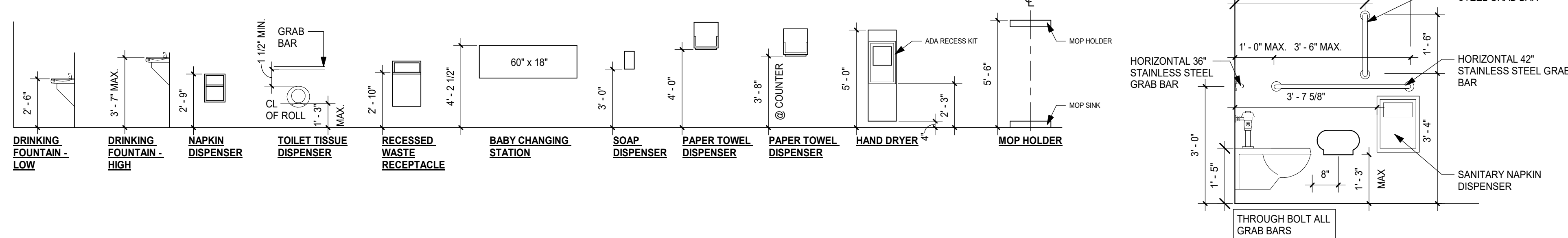


B4 ELEVATION - RESTROOM LEVEL 1&2 WEST ADMIN RR
A151 SCALE: 1/4" = 1'-0"



B5 ELEVATION - CUSTODIAL CLOSET
A151 SCALE: 1/4" = 1'-0"

FIXTURE LEGEND



GENERAL NOTES

- REFER TO A800 SHEETS FOR FINISH LEGEND & ROOM FINISH SCHEDULE.
- ALL REQ. CLEARANCE DIMENSIONS ARE TO FINISH FACE.
- ALL ITEMS ARE TO BE CONTRACTOR PROVIDED & OWNER INSTALLED, U.N.O.
- ALL WALL DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF STUD, U.N.O.
- REFER TO ELEVATIONS FOR LIMITS OF WALL TILE.
- AT ALL TILE CORNERS, CAULK W/ SANDED CAULK TO MATCH GROUT COLOR, PROVIDED BY GROUT MFR.
- REFER TO FLOOR PLAN SHEETS A101-A104 FOR SHEET NOTES.

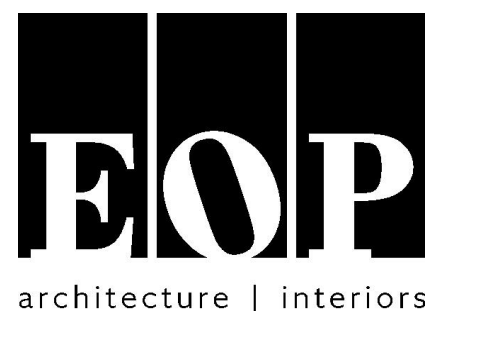
SPECIALTY EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	OFOI	OFCI	CFCI	COMMENTS
G1	65" TV - ADMIN.	-	X	-	TO BE MOUNTED 5'4" ON CENTER FROM A.F.F.
G2	CARBON FLOOR DRYER	X	-	-	
G3	VENDING MACHINE	X	-	-	
G4	FLOOR SCRUBBER	X	-	-	
G5	12" x 12" DOUBLE STACKED LOCKER	-	-	X	
G6	UNDERCOUNTER REFRIGERATOR	X	-	-	
G7	REFRIGERATOR	X	-	-	
G8	FLOOR COPIER	X	-	-	
G9	METAL DETECTOR	X	-	-	
G10	12" x 12" SIX-TIER LOCKER	-	-	X	
G11	MICROWAVE OVEN	X	-	-	
G13	75" TV	-	X	-	
G14	12" x 12" SINGLE TIER LOCKER	-	-	X	
G15	15" x 21" DOUBLE STACKED HEAVY-DUTY VENTILATED METAL LOCKER WITH LEGS	-	-	X	

TOILET ACCESSORIES SCHEDULE

TYPE MARK	DESCRIPTION	OFCI	OFOI	CFCI	COMMENTS
T1	18"x36"x42" ADA GRAB BAR	-	-	X	REFER TO FIXTURE LEGEND
T2	BATH TISSUE DISPENSER	X	-	-	
T3	SANITARY NAPKIN DISPOSAL	-	-	X	
T4	ROBE HOOK	X	-	X	
T5	SOAP DISPENSER	X	-	-	
T6	PAPER TOWEL DISPENSER	X	-	-	
T7	MIRROR - 18" x 36"	-	-	X	
T8	MOP AND BROOM HOLDER	-	-	X	
T9	WATER BOTTLE FILLING STATION	-	-	X	
T10	XLERATOR HAND DRYER - RECESSED	-	-	X	PROVIDE ADA RECESS KIT

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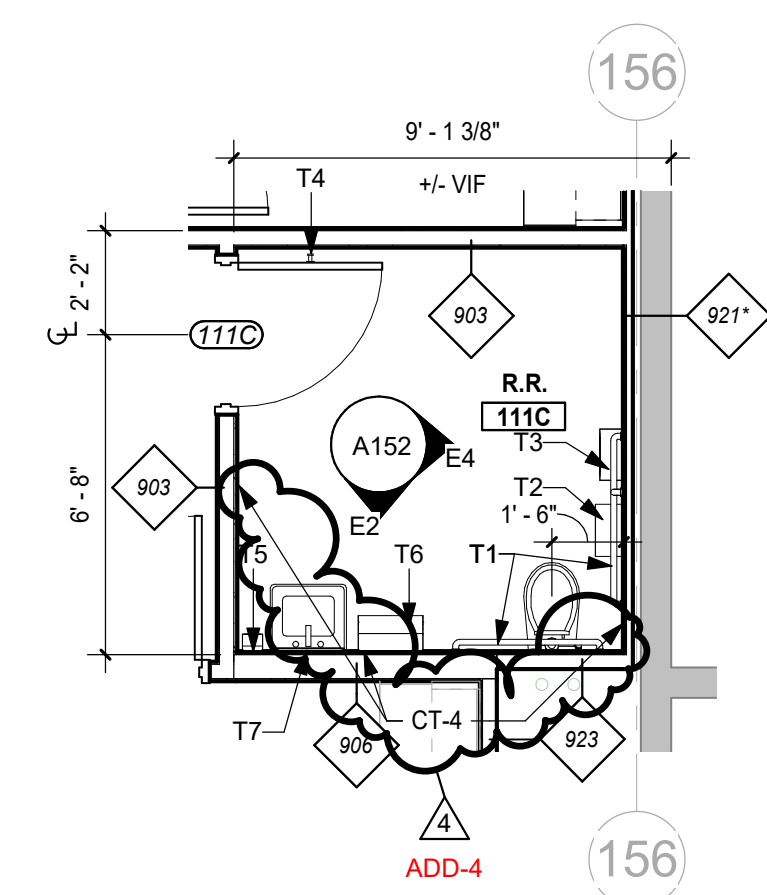
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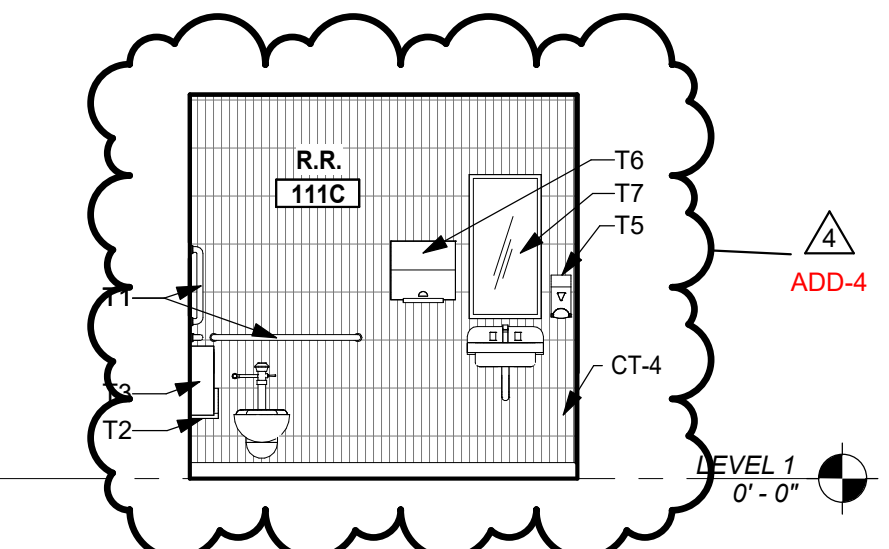


LEVEL 1&2 ENLARGED RESTROOM PLANS & ELEVATIONS

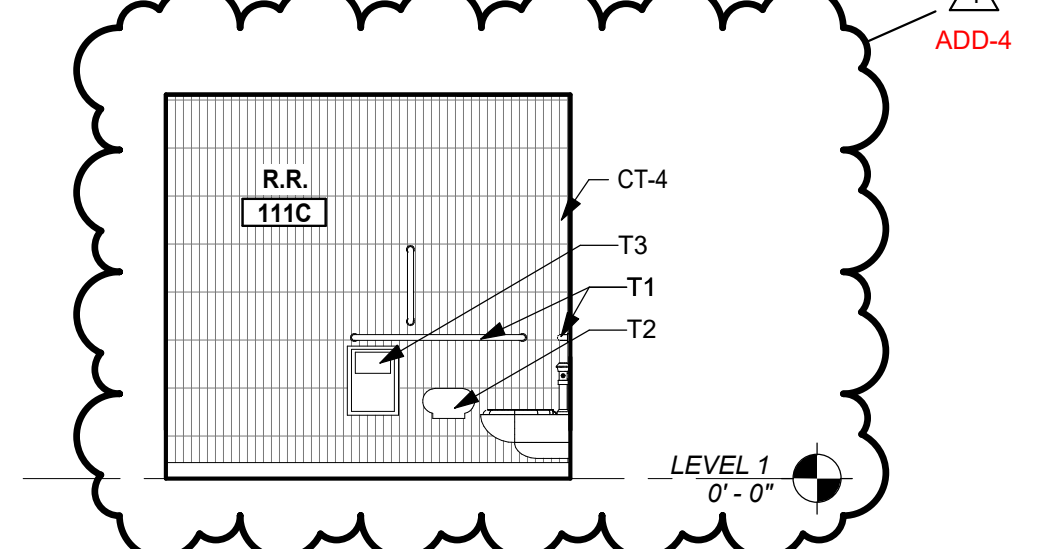
A152



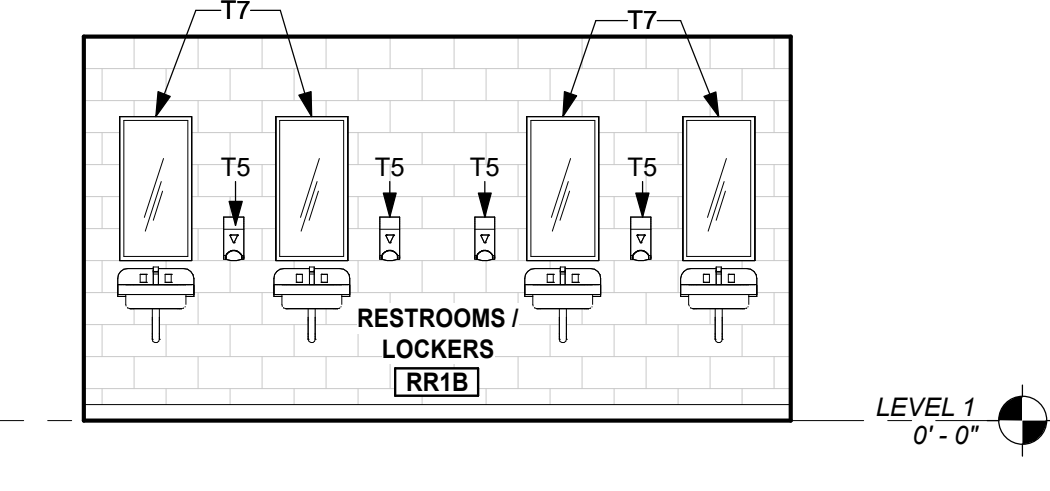
E1 ENLARGED PLAN - RESTROOM LEVEL 1 ADMIN
A152 SCALE: 1/4" = 1'-0"



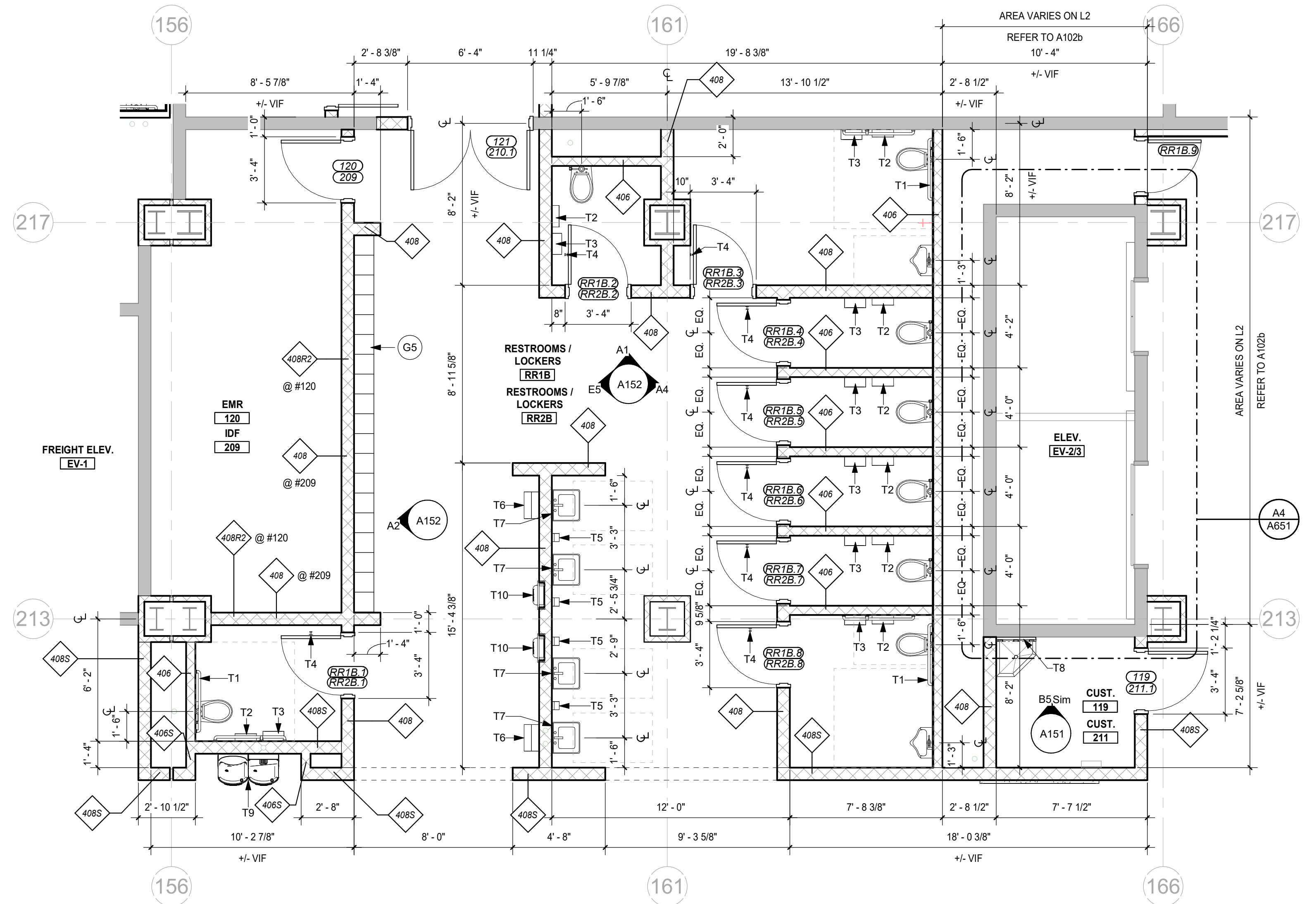
E2 ELEVATION - RESTROOM LEVEL 1 ADMIN
A152 SCALE: 1/4" = 1'-0"



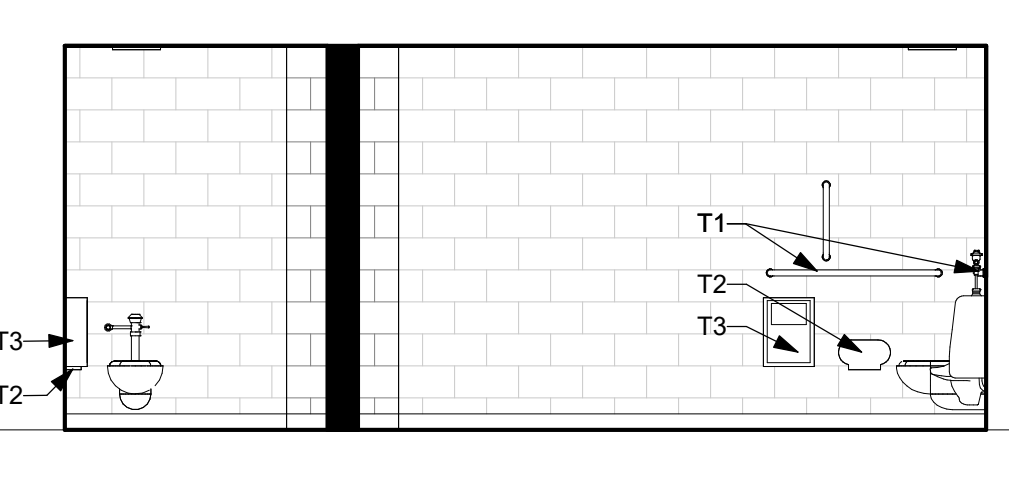
E4 ELEVATION - RESTROOM LEVEL ADMIN
A152 SCALE: 1/4" = 1'-0"



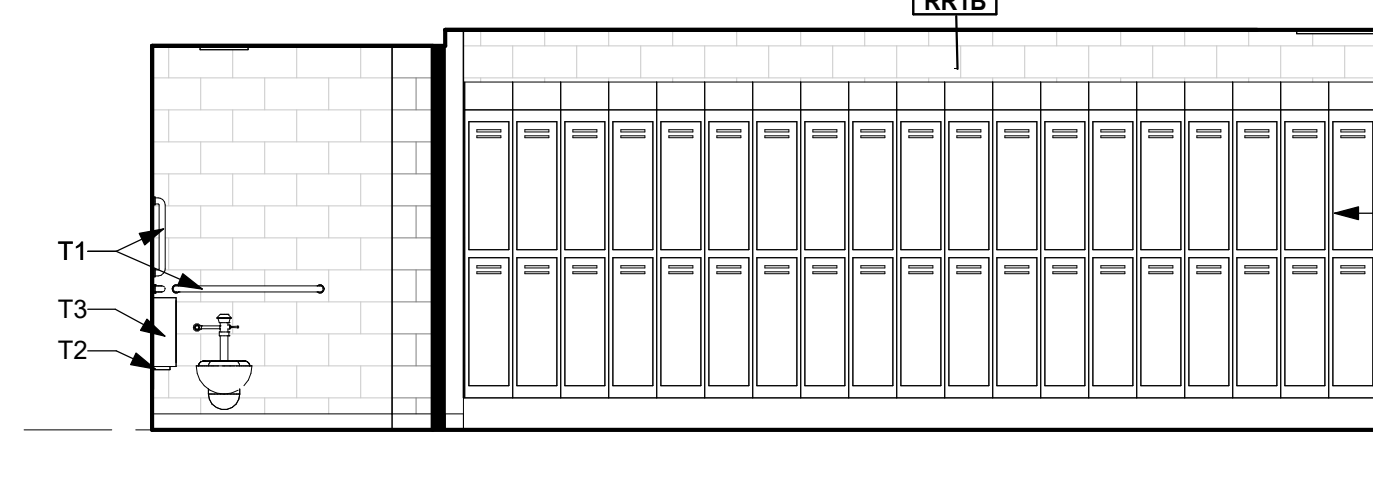
E5 ELEVATION - RESTROOM 1&2 EAST
A152 SCALE: 1/4" = 1'-0"



B1 ENLARGED PLAN - RESTROOM LEVELS 1&2 EAST
A152 SCALE: 1/4" = 1'-0"



A1 ELEVATION - RESTROOM 1&2 EAST
A152 SCALE: 1/4" = 1'-0"

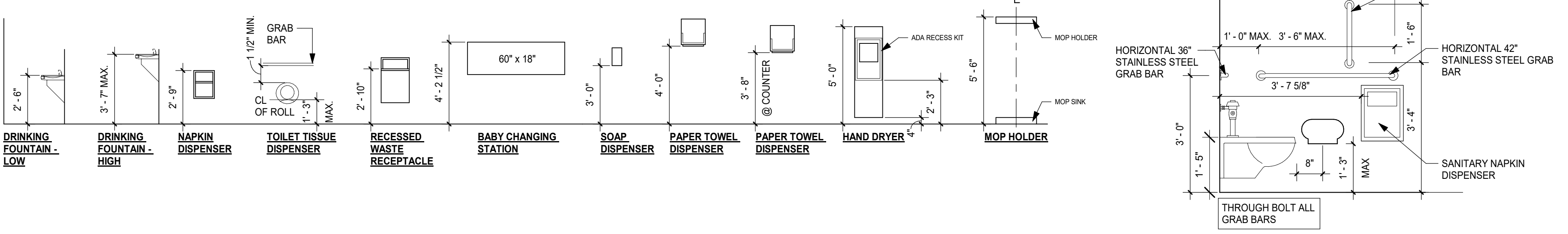


A2 ELEVATION - RESTROOM 1&2 EAST
A152 SCALE: 1/4" = 1'-0"



A4 ELEVATION - RESTROOM 1&2 EAST
A152 SCALE: 1/4" = 1'-0"

FIXTURE LEGEND



GENERAL NOTES

- A. REFER TO A800 SHEETS FOR FINISH LEGEND & ROOM FINISH SCHEDULE.
- B. ALL REQ. CLEARANCE DIMENSIONS ARE TO FINISH FACE.
- C. ALL ITEMS ARE TO BE CONTRACTOR PROVIDED & OWNER INSTALLED, U.N.O.
- D. ALL WALL DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF STUD, U.N.O.
- E. REFER TO ELEVATIONS FOR LIMITS OF WALL TILE.
- F. AT ALL TILE CORNERS, CAULK W/ SANDED CAULK TO MATCH GROUT COLOR, PROVIDED BY GROUT MFR.
- G. REFER TO FLOOR PLAN SHEETS A101-A104 FOR SHEET NOTES.

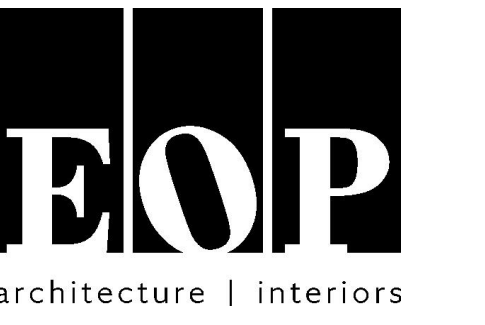
SPECIALTY EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	OFCI	OFOI	CFCI	COMMENTS
G1	65" TV - ADMIN.	-	X	-	TO BE MOUNTED 34" ON CENTER FROM A.F.F.
G2	CARBON FLOOR DRYER	X	-	-	
G3	VENDING MACHINE	X	-	-	
G4	FLOOR SCRUBBER	X	-	-	
G5	12" x 12" DOUBLE STACKED LOCKER	-	-	X	
G6	UNDERCOUNTER REFRIGERATOR	X	-	-	
G7	REFRIGERATOR	X	-	-	
G8	FLOOR COPIER	X	-	-	
G9	METAL DETECTOR	X	-	-	
G10	12"x12" SIX-TIER LOCKER	-	-	X	
G11	MICROWAVE OVEN	X	-	-	
G13	75" TV	-	X	-	
G14	12" x 12" SINGLE TIER LOCKER	-	-	X	
G15	15" x 21" DOUBLE STACKED HEAVY-DUTY VENTILATED METAL LOCKER WITH LEGS	-	-	X	

TOILET ACCESSORIES SCHEDULE

TYPE MARK	DESCRIPTION	OFCI	OFOI	CFCI	COMMENTS
T1	18"x36"x42" ADA GRAB BAR	-	-	X	REFER TO FIXTURE LEGEND
T2	BATH TISSUE DISPENSER	X	-	-	
T3	SANITARY NAPKIN DISPOSAL	-	-	X	
T4	ROBE HOOK	X	-	-	
T5	SOAP DISPENSER	X	-	-	
T6	PAPER TOWEL DISPENSER	X	-	-	
T7	MIRROR - 18"W x 36"H	-	-	X	
T8	MOP AND BROOM HOLDER	-	-	X	
T9	WATER BOTTLE FILLING STATION	-	-	X	
T10	XLERATOR HAND DRYER - RECESSED	-	-	X	PROVIDE ADA RECESS KIT

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/22	Revision 4



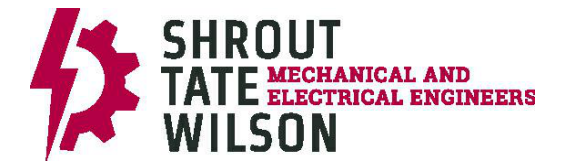
PROJECT TEAM
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Reitano Design Group
302 N. East Street, Studio One
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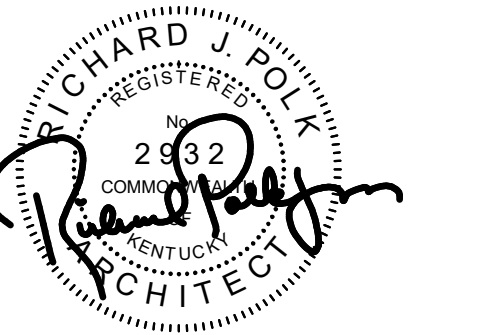
Calvert - Independent Hardware
Specifications, LLC.
307 Oakwood Circle
Vine Grove, KY 40175

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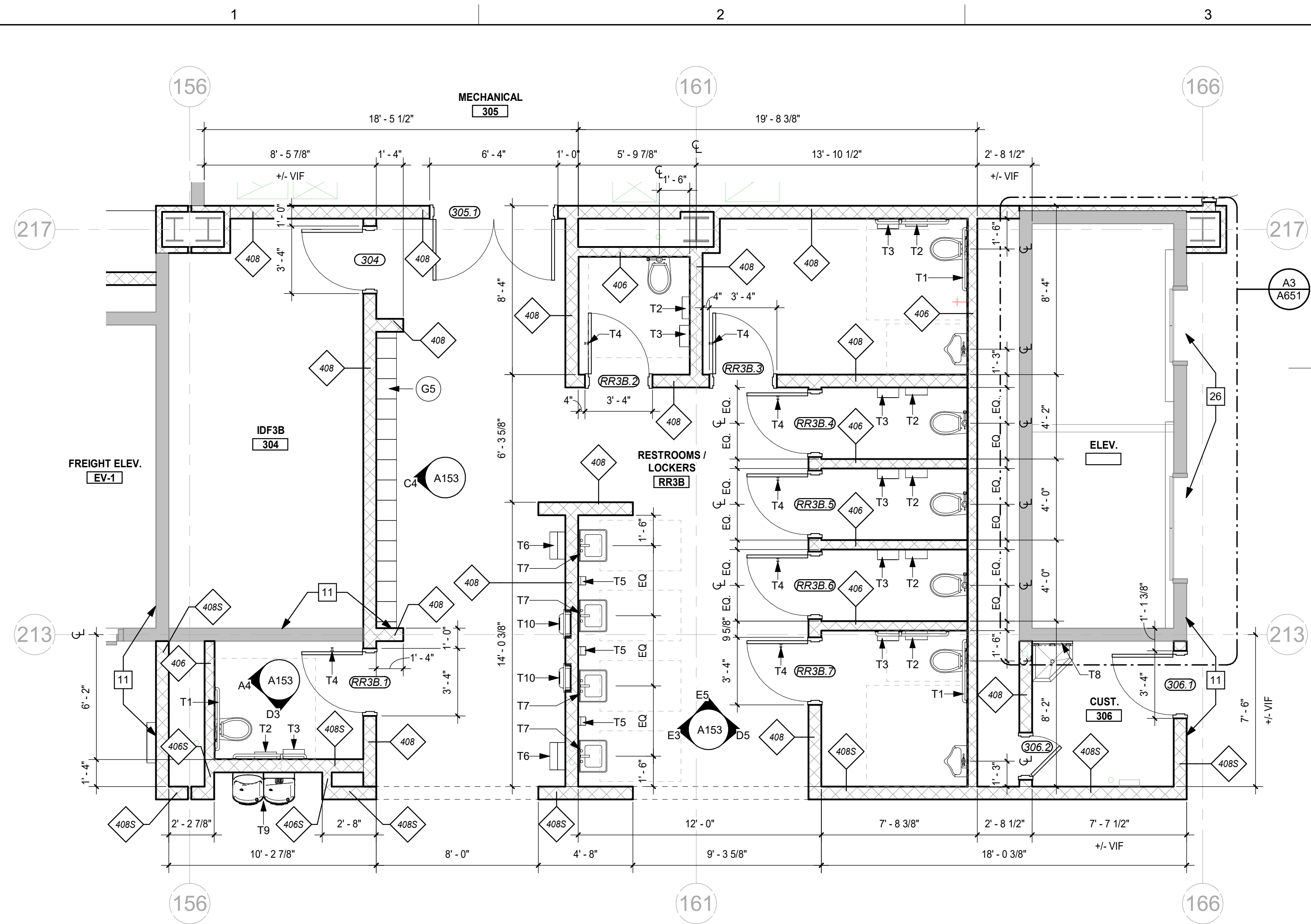
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Job Number 2150
Drawn By Author
Checked By Checker
Date 09/28/2022

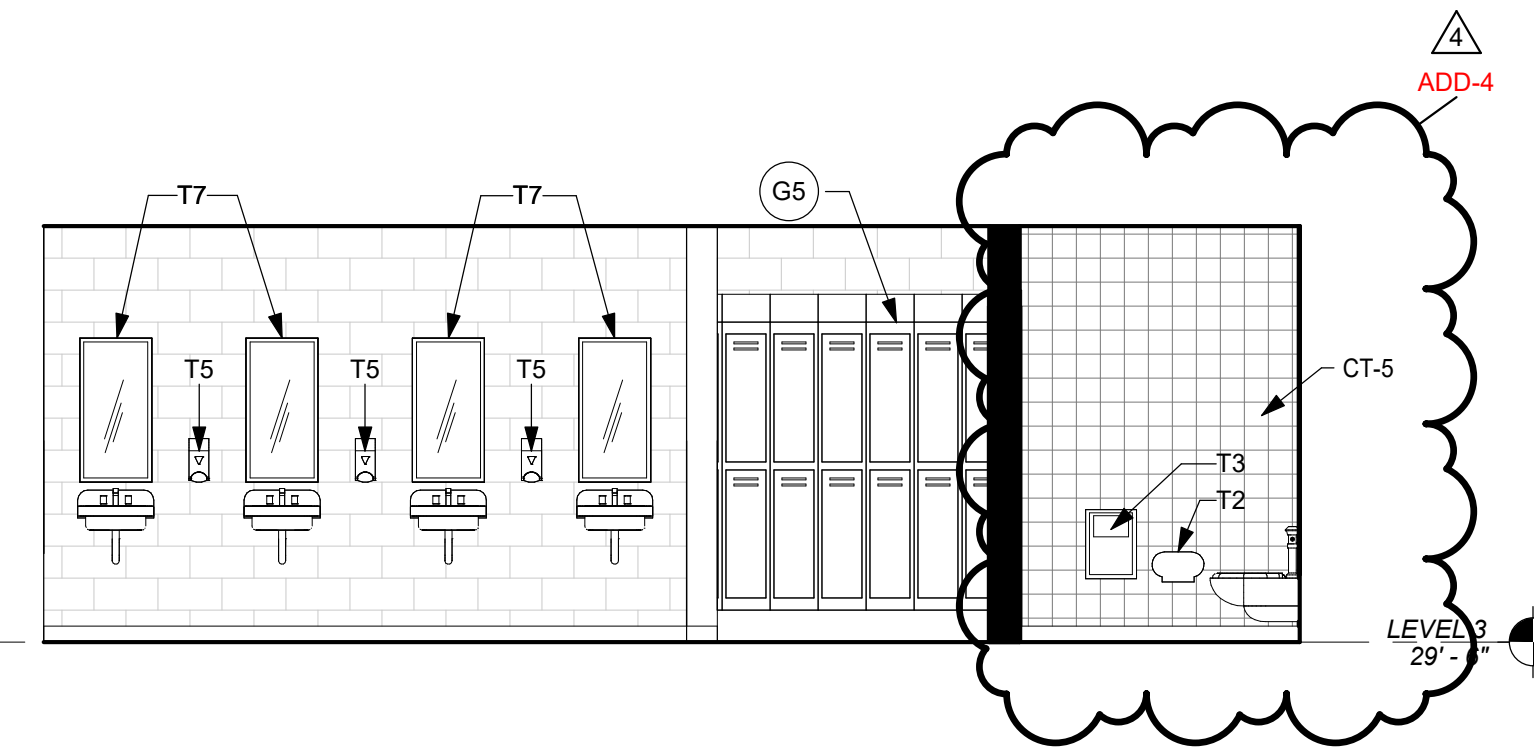


**LEVEL 3&4 ENLARGED
RESTROOM PLANS &
ELEVATIONS**

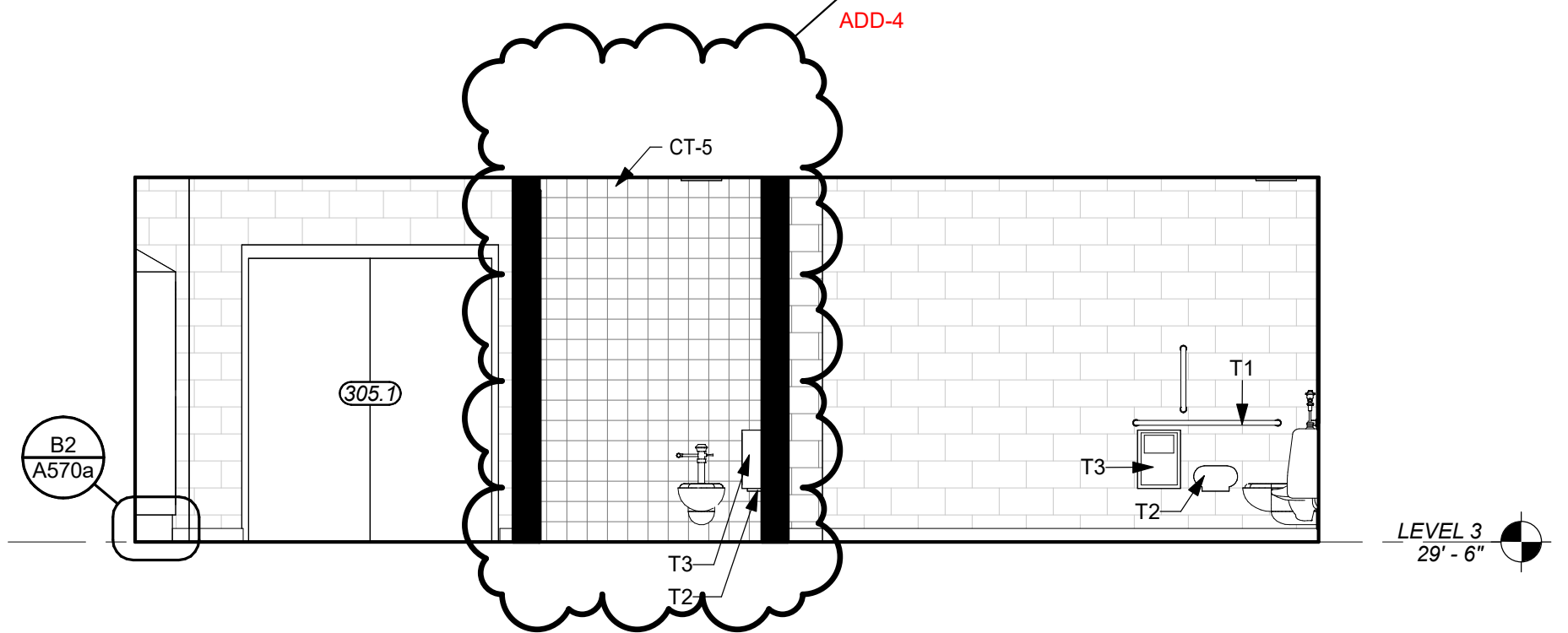
A153



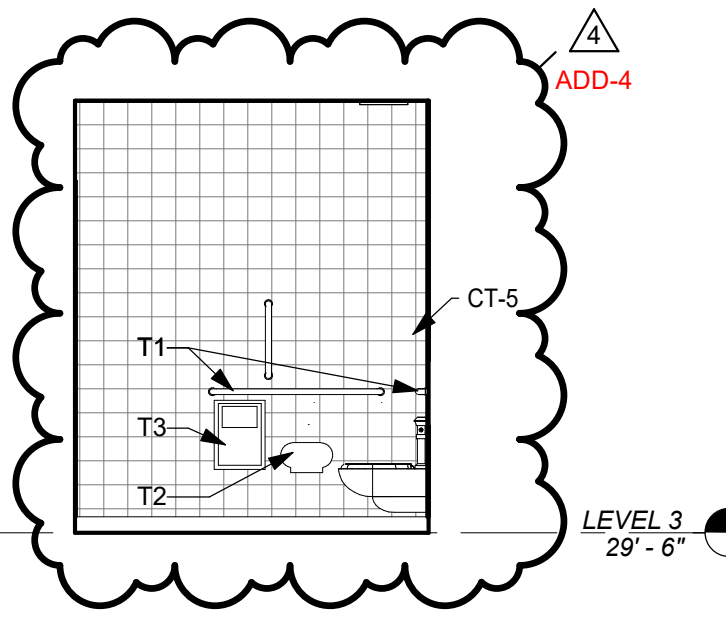
D1 ENLARGED PLAN - RESTROOM LEVEL 3 EAST
A153 SCALE: 1/4" = 1'-0"



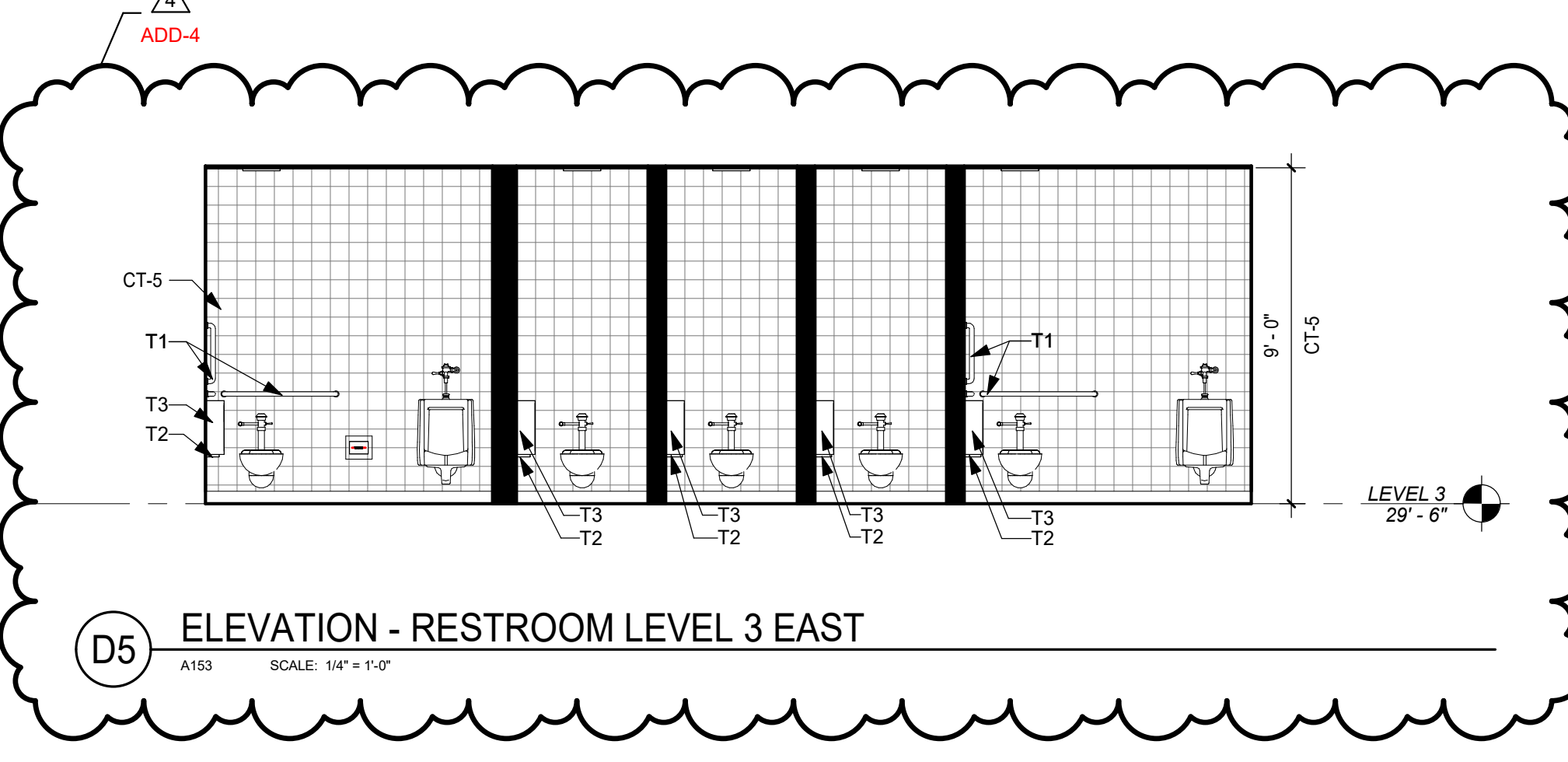
E3 ELEVATION - RESTROOM LEVEL 3 EAST
A153 SCALE: 1/4" = 1'-0"



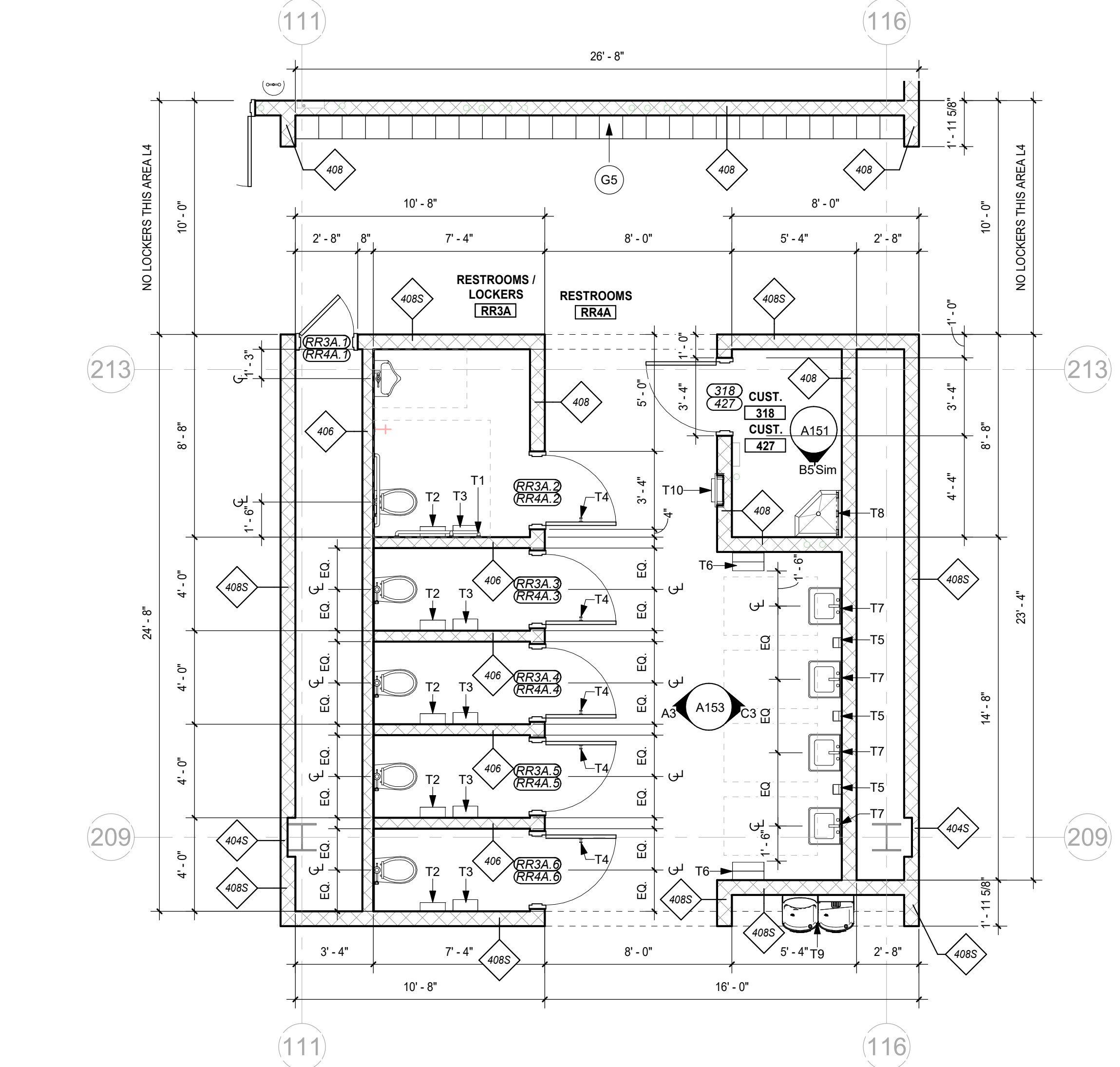
E5 ELEVATION - RESTROOM LEVEL 3 EAST
A153 SCALE: 1/4" = 1'-0"



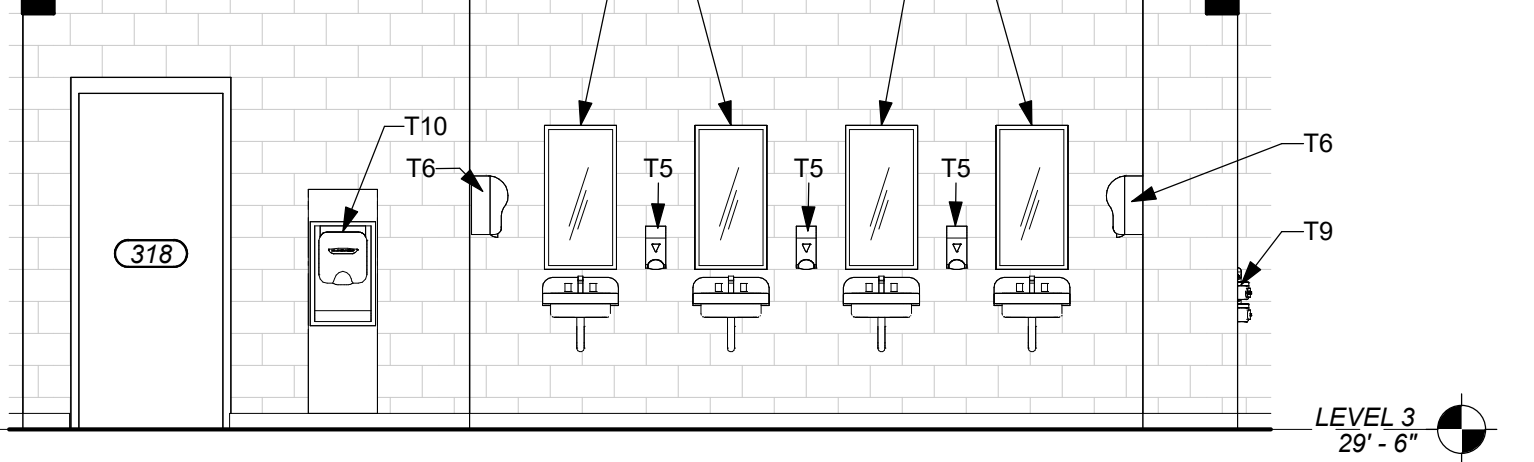
D3 ELEVATION - RESTROOM LEVEL 3 EAST
A153 SCALE: 1/4" = 1'-0"



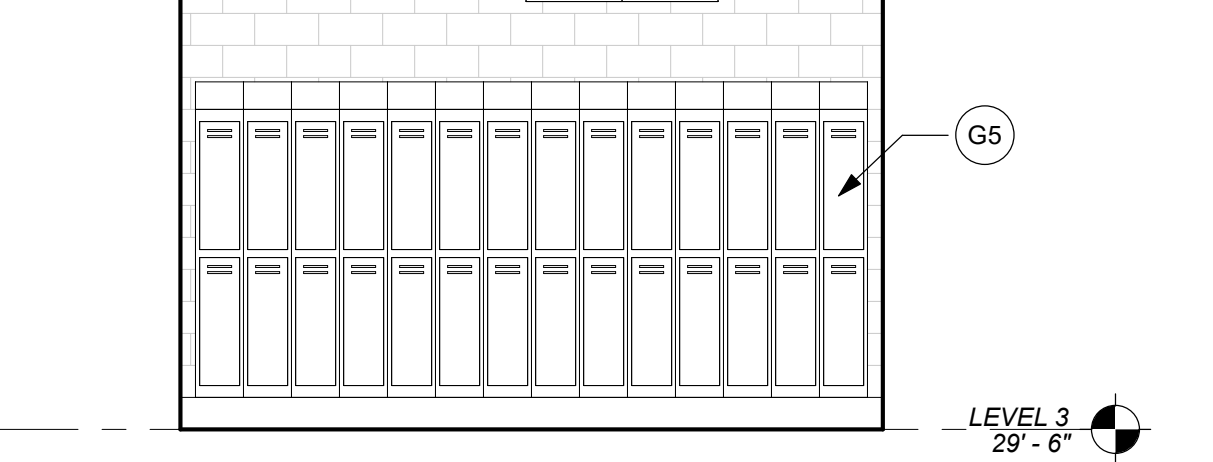
D5 ELEVATION - RESTROOM LEVEL 3 EAST
A153 SCALE: 1/4" = 1'-0"



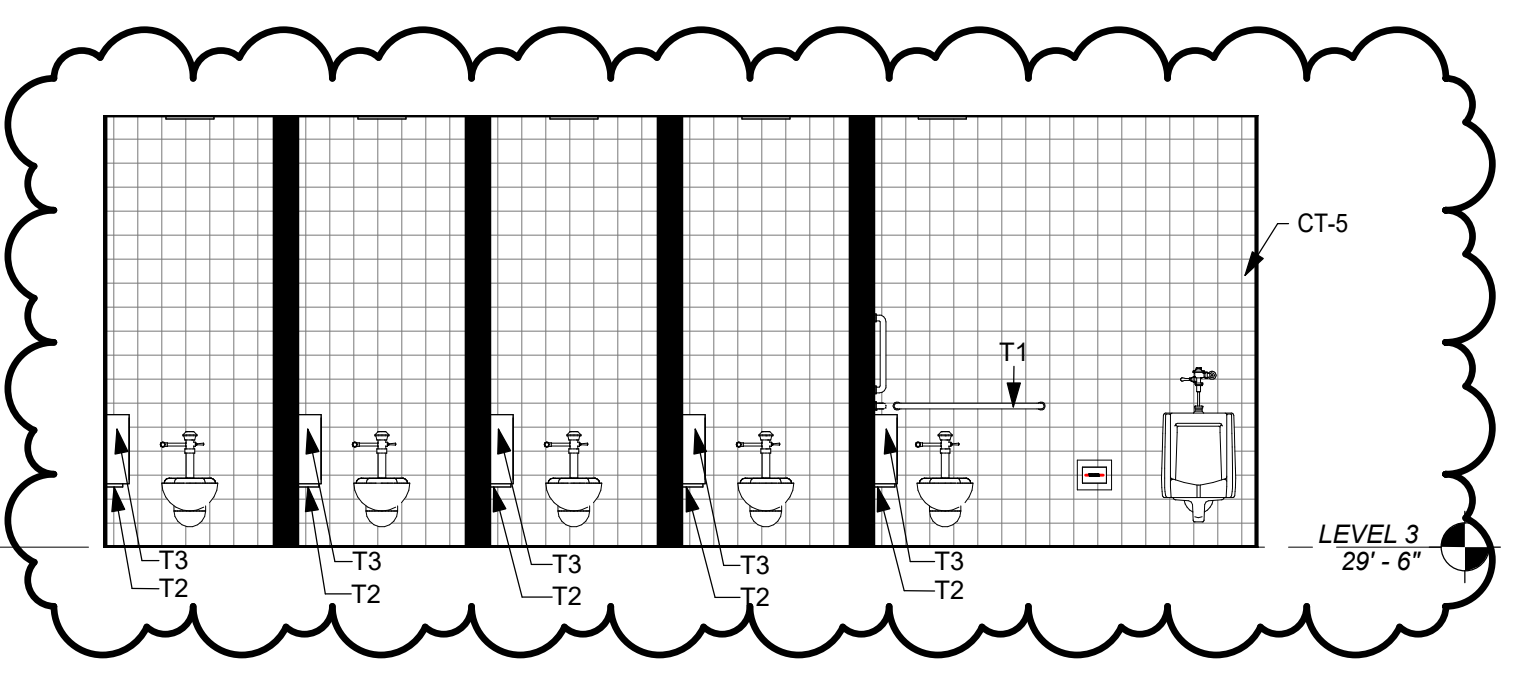
A1 ENLARGED PLAN - RESTROOM LEVEL 3&4 WEST
A153 SCALE: 1/4" = 1'-0"



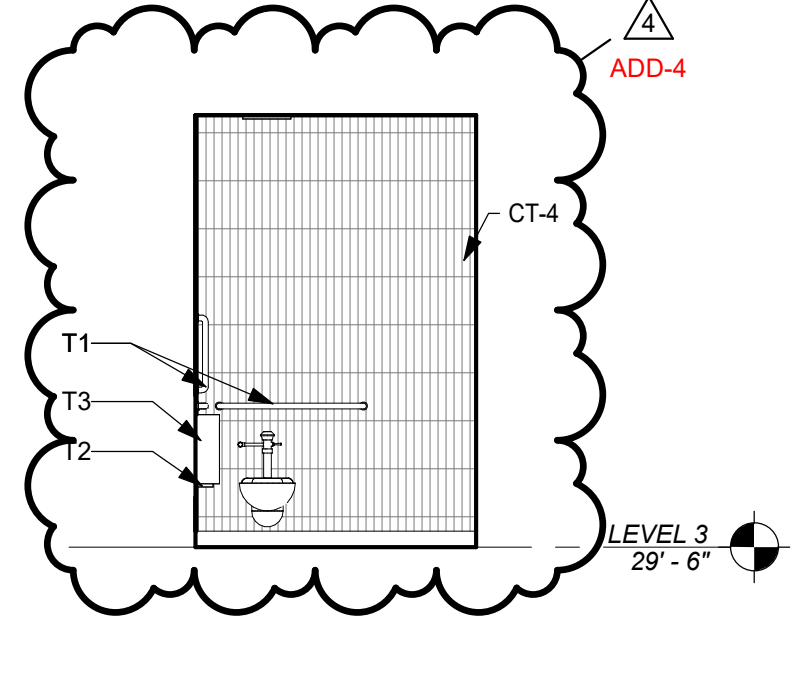
C3 ELEVATION - RESTROOM LEVEL 3&4 WEST
A153 SCALE: 1/4" = 1'-0"



C4 ELEVATION - RESTROOM LEVEL 3&4 EAST
A153 SCALE: 1/4" = 1'-0"

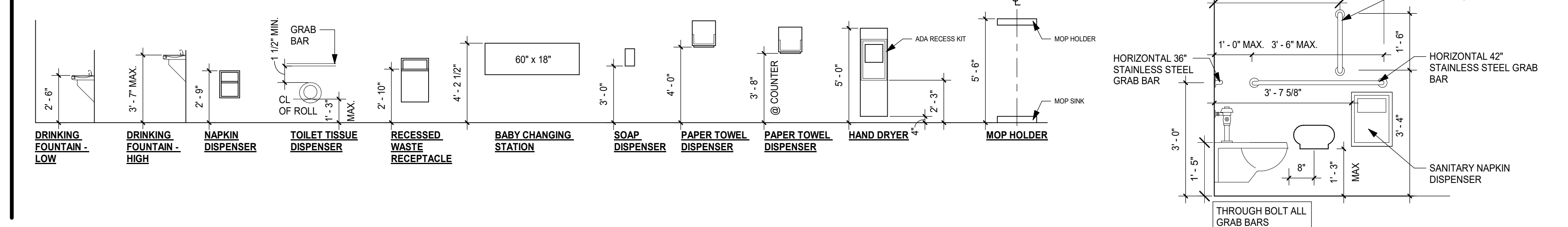


A3 ELEVATION - RESTROOM LEVEL 3&4 WEST
A153 SCALE: 1/4" = 1'-0"



A4 ELEVATION - RESTROOM LEVEL 3 EAST
A153 SCALE: 1/4" = 1'-0"

FIXTURE LEGEND



GENERAL NOTES

- REFER TO 800 SHEETS FOR FINISH LEGEND & ROOM FINISH SCHEDULE.
- ALL REQ. CLEARANCE DIMENSIONS ARE TO FINISH FACE.
- ALL ITEMS ARE TO BE CONTRACTOR PROVIDED & OWNER INSTALLED, U.N.O.
- ALL WALL DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF STUD, U.N.O.
- REFER TO ELEVATIONS FOR LIMITS OF WALL TILE.
- AT ALL TILE CORNERS, CAULK W/ SANDED CAULK TO MATCH GROUT COLOR. PROVIDED BY GROUT MFR.
- REFER TO FLOOR PLAN SHEETS A101-A104 FOR SHEET NOTES.

SPECIALTY EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	OF01	OF02	CF01	COMMENTS
G1	65" TV - ADMIN.	-	X	-	TO BE MOUNTED 54" ON CENTER FROM A.F.F.
G2	CARBON FLOOR DRYER	X	-	-	
G3	VENDING MACHINE	X	-	-	
G4	FLOOR SCRUBBER	X	-	-	
G5	12" x 12" DOUBLE STACKED LOCKER	-	-	X	
G6	UNDERCOUNTER REFRIGERATOR	X	-	-	
G7	REFRIGERATOR	X	-	-	
G8	FLOOR COPIER	X	-	-	
G9	METAL DETECTOR	X	-	-	
G10	12"x12" SIX-TIER LOCKER	-	-	X	
G11	MICROWAVE OVEN	X	-	-	
G13	75" TV	-	X	-	
G14	12" x 12" SINGLE TIER LOCKER	-	-	X	
G15	15" x 21" DOUBLE STACKED HEAVY-DUTY VENTILATED METAL LOCKER WITH LEGS	-	-	X	

TOILET ACCESSORIES SCHEDULE

TYPE MARK	DESCRIPTION	OF01	OF02	CF01	COMMENTS
T1	18"x36"x42" ADA GRAB BAR	-	-	X	REFER TO FIXTURE LEGEND
T2	BATH TISSUE DISPENSER	X	-	-	
T3	SANITARY NAPKIN DISPOSAL	-	-	X	
T4	ROBE HOOK	-	-	X	
T5	SOAP DISPENSER	X	-	-	
T6	PAPER TOWEL DISPENSER	X	-	-	
T7	MIRROR - 18"W x 36"H	-	-	X	
T8	MOP AND BROOM HOLDER	-	-	X	
T9	WATER BOTTLE FILLING STATION	-	-	X	
T10	XLERATOR HAND DRYER - RECESSED	-	-	X	PROVIDE ADA RECESS KIT

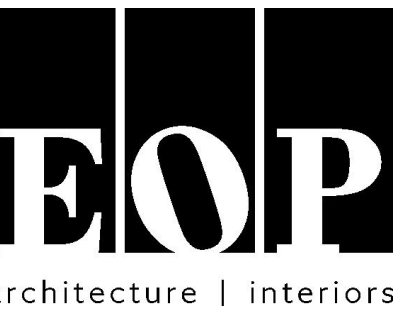
**NEW FCPS
COMBINED CTE
SCHOOL**

BG# 22-167

100 Midland Ave.
Lexington, KY 40508

BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/22	Revision 4



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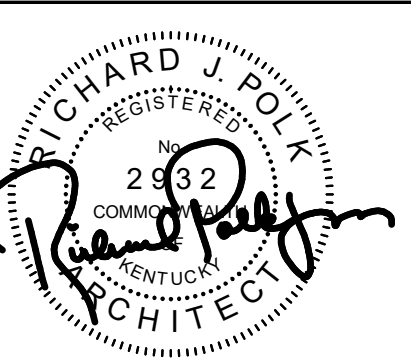
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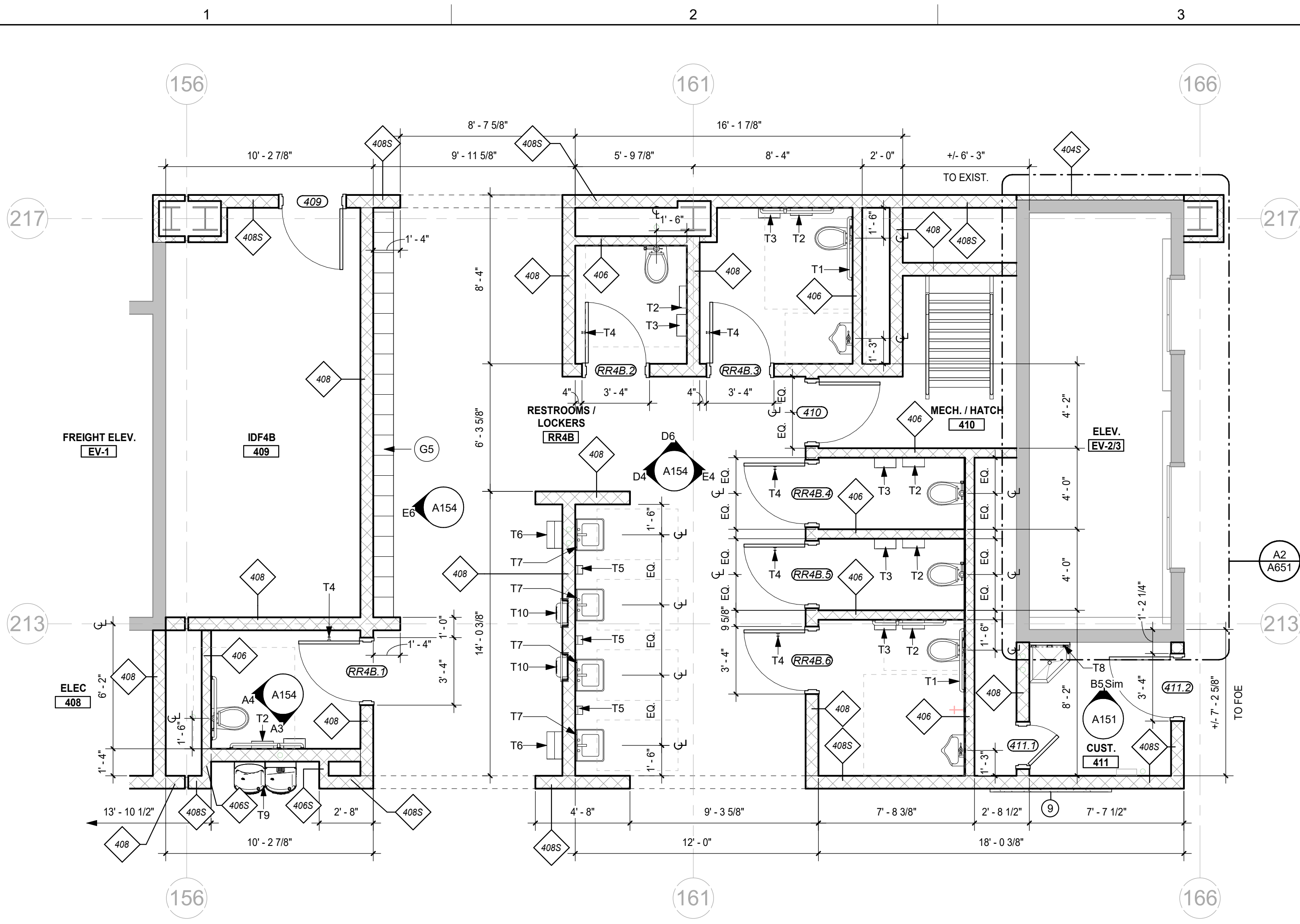
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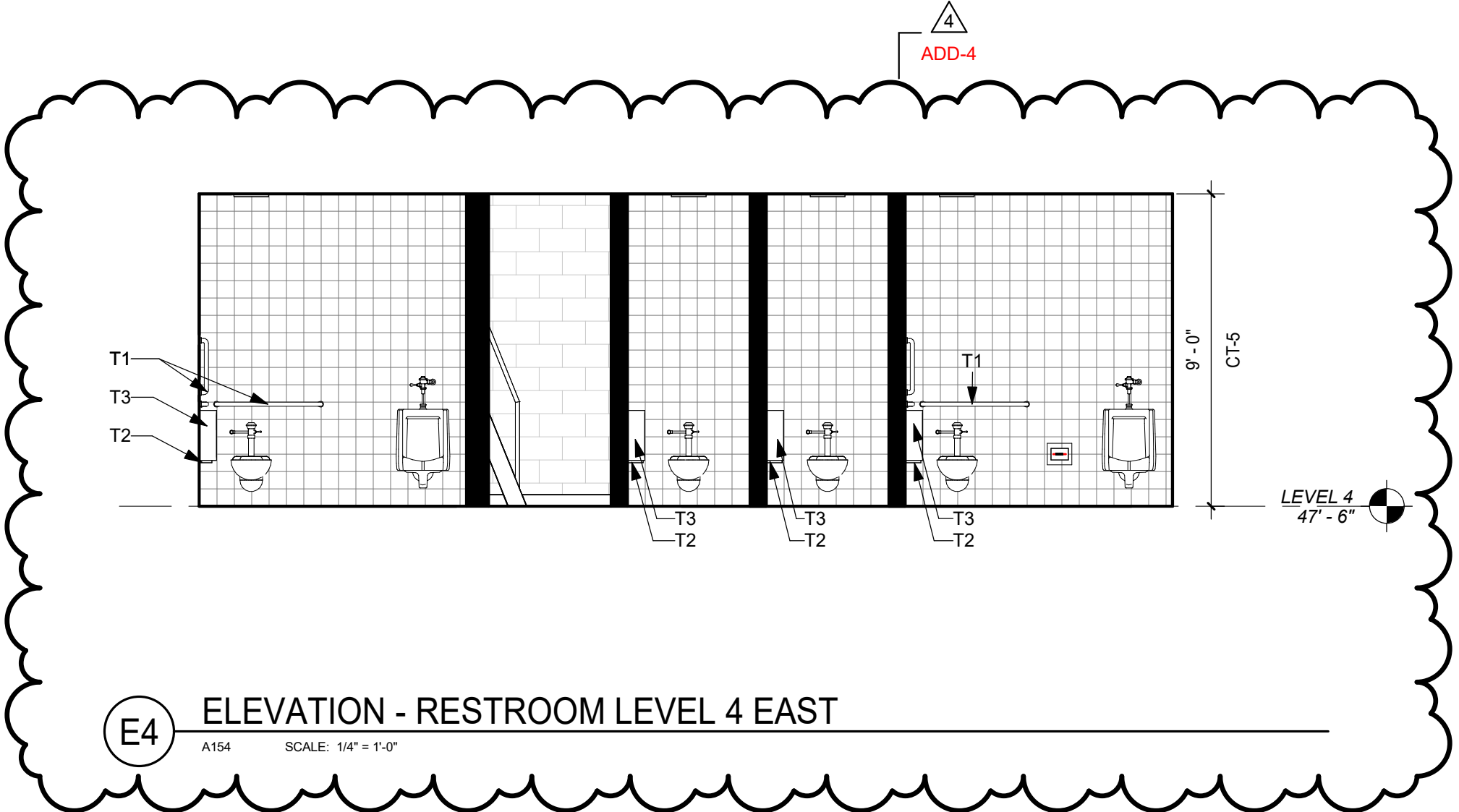


**LEVEL 3&4 ENLARGED
RESTROOM PLANS &
ELEVATIONS**

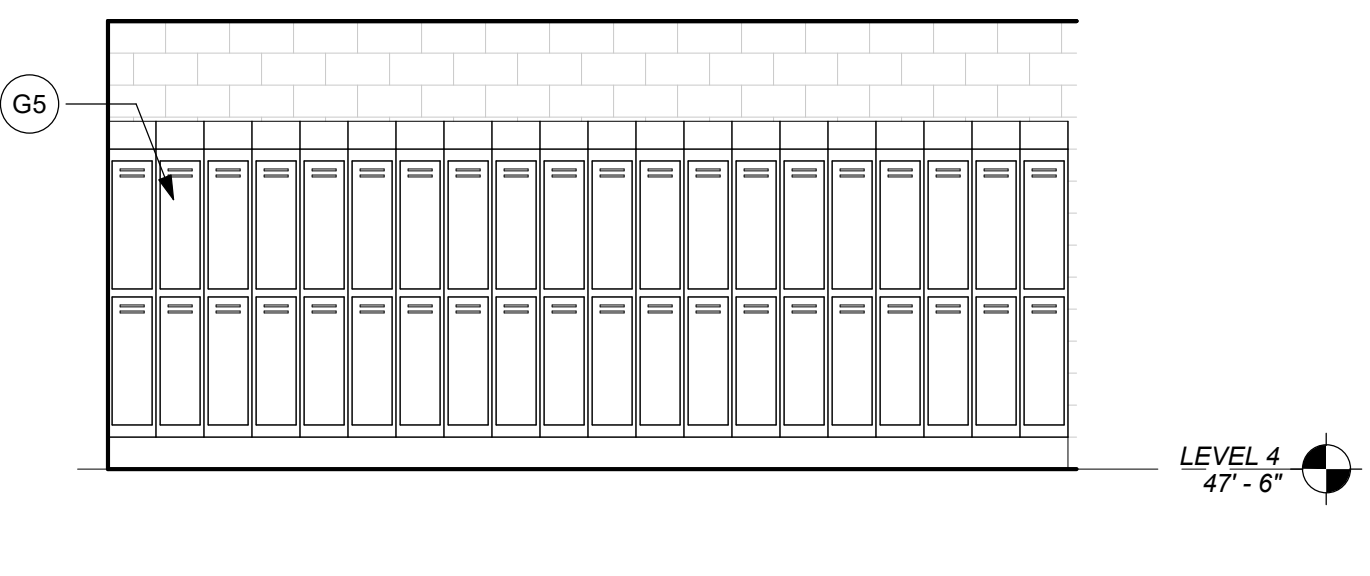
A154



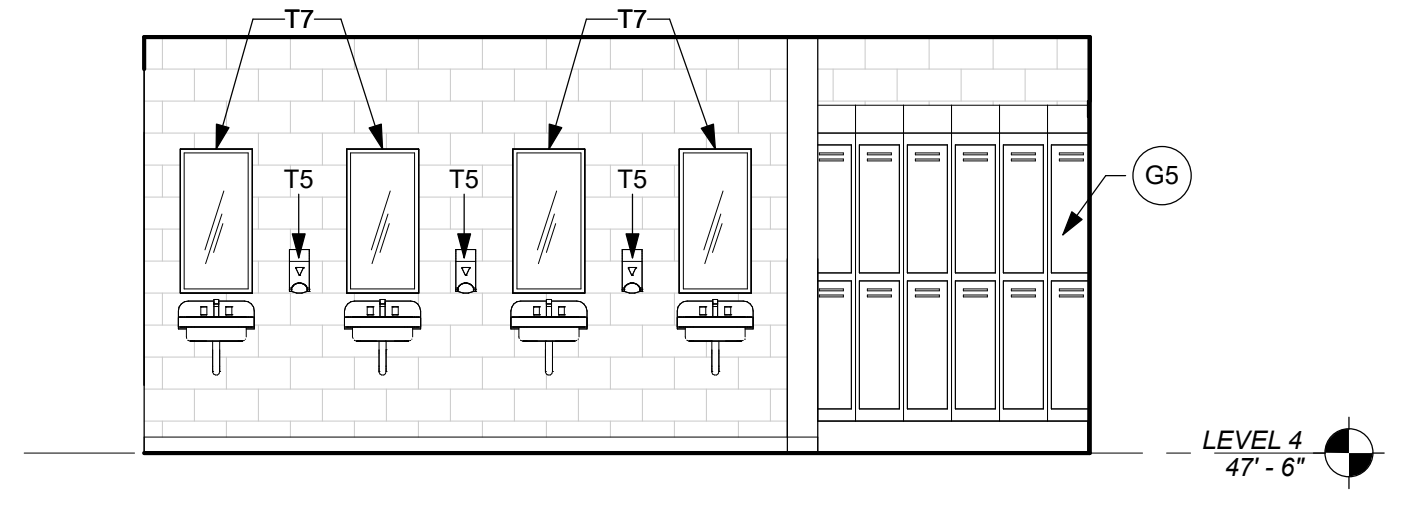
D1 ENLARGED PLAN - RESTROOM LEVEL 4 EAST
A154 SCALE: 1/4" = 1'-0"



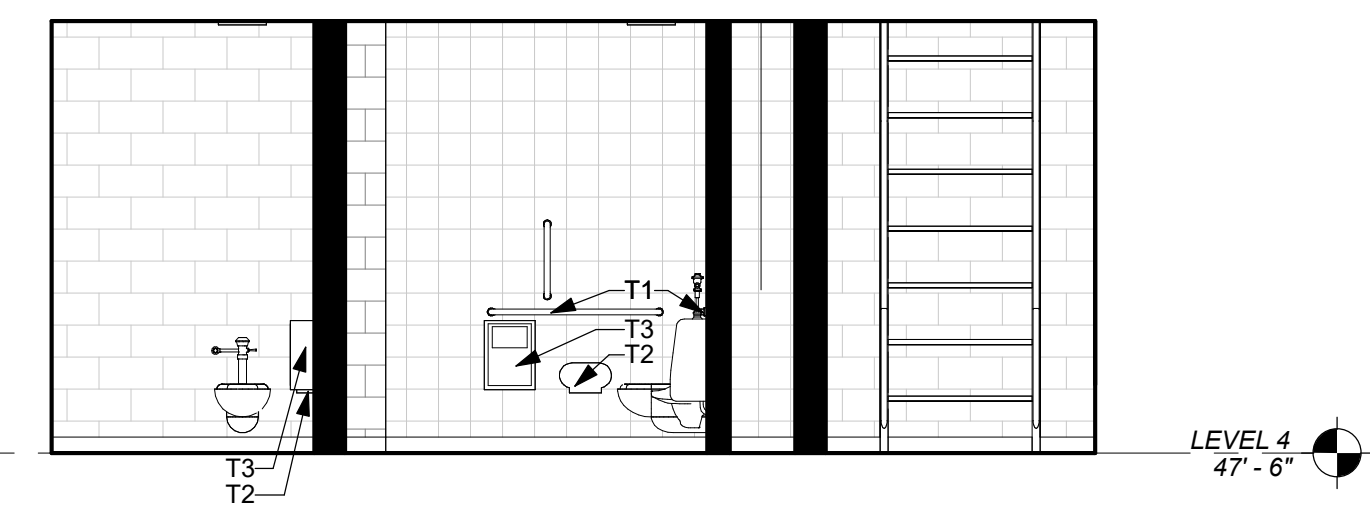
E4 ELEVATION - RESTROOM LEVEL 4 EAST
A154 SCALE: 1/4" = 1'-0"



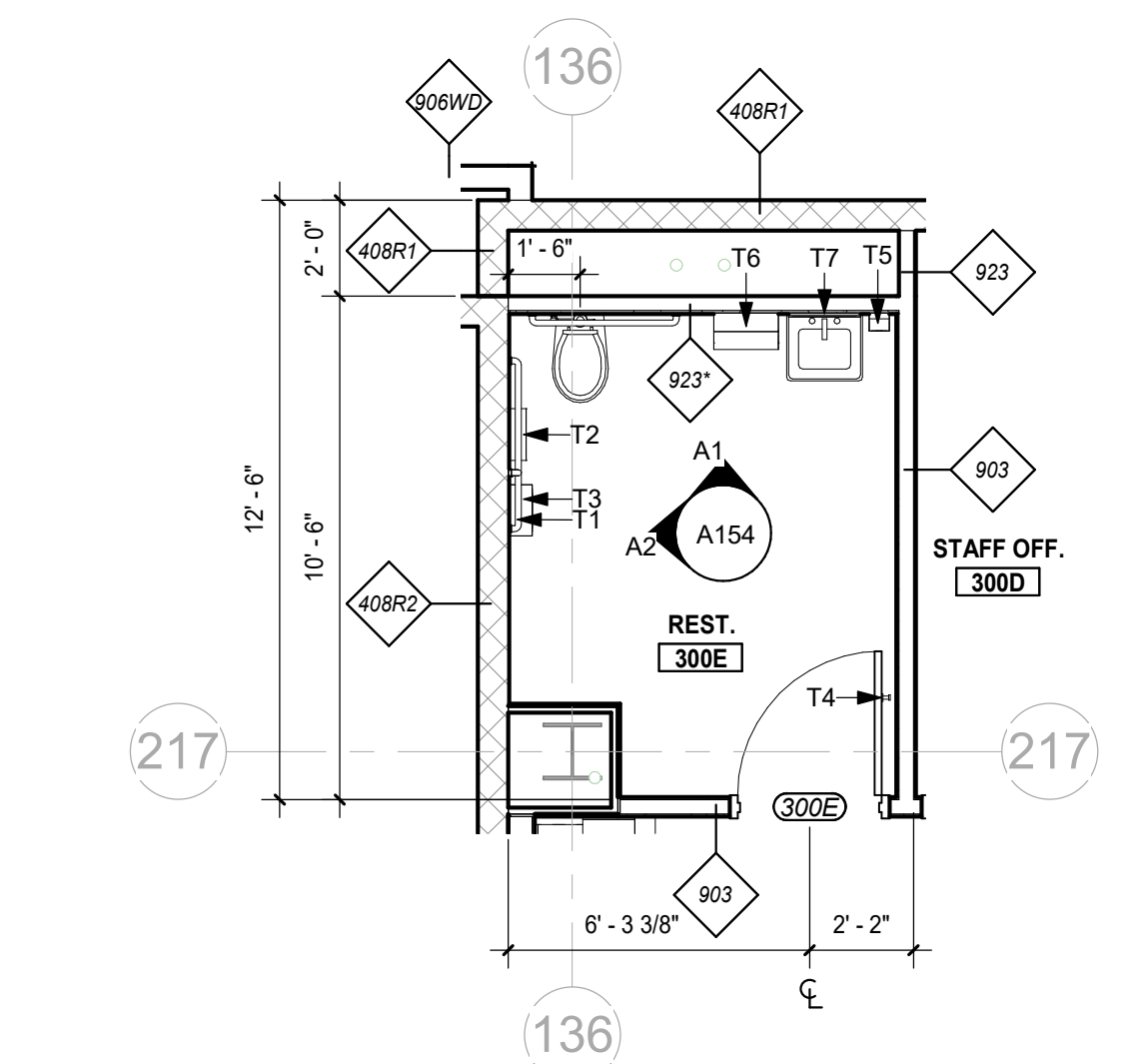
E6 ELEVATION - RESTROOM LEVEL 4 EAST
A154 SCALE: 1/4" = 1'-0"



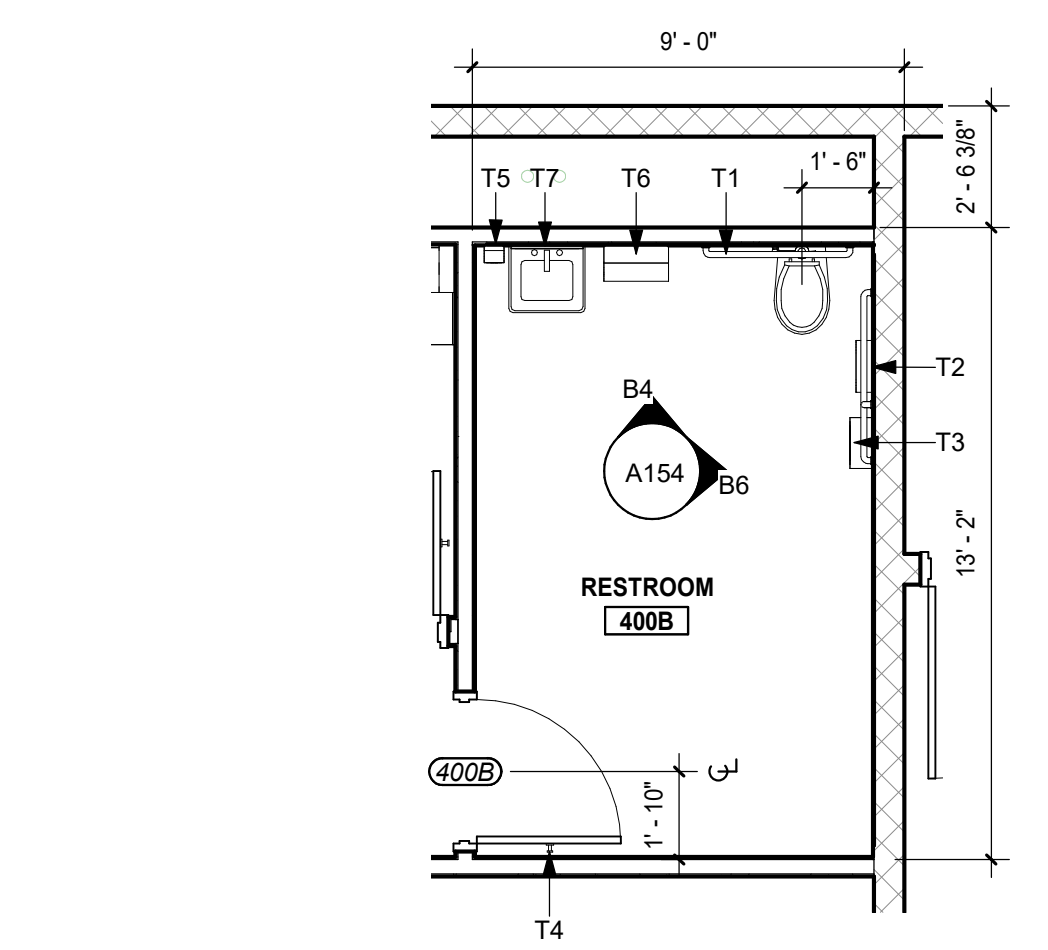
D4 ELEVATION - RESTROOM LEVEL 4 EAST
A154 SCALE: 1/4" = 1'-0"



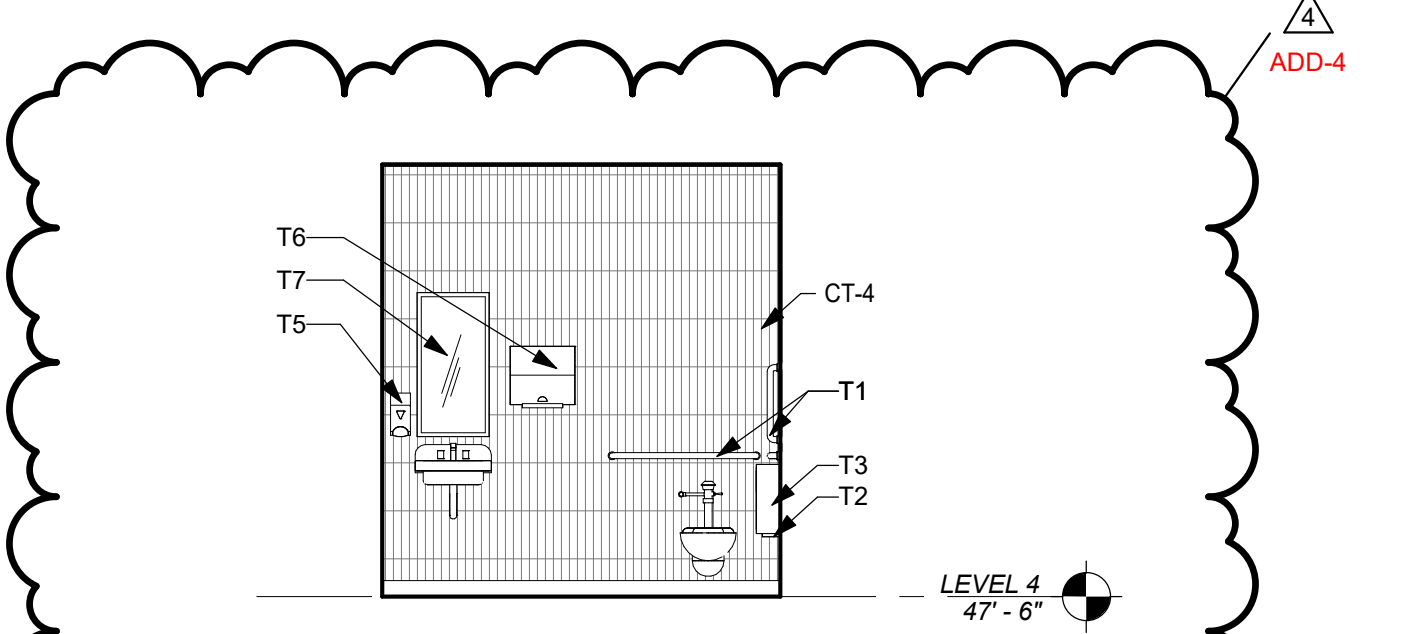
D6 ELEVATION - RESTROOM LEVEL 4 EAST
A154 SCALE: 1/4" = 1'-0"



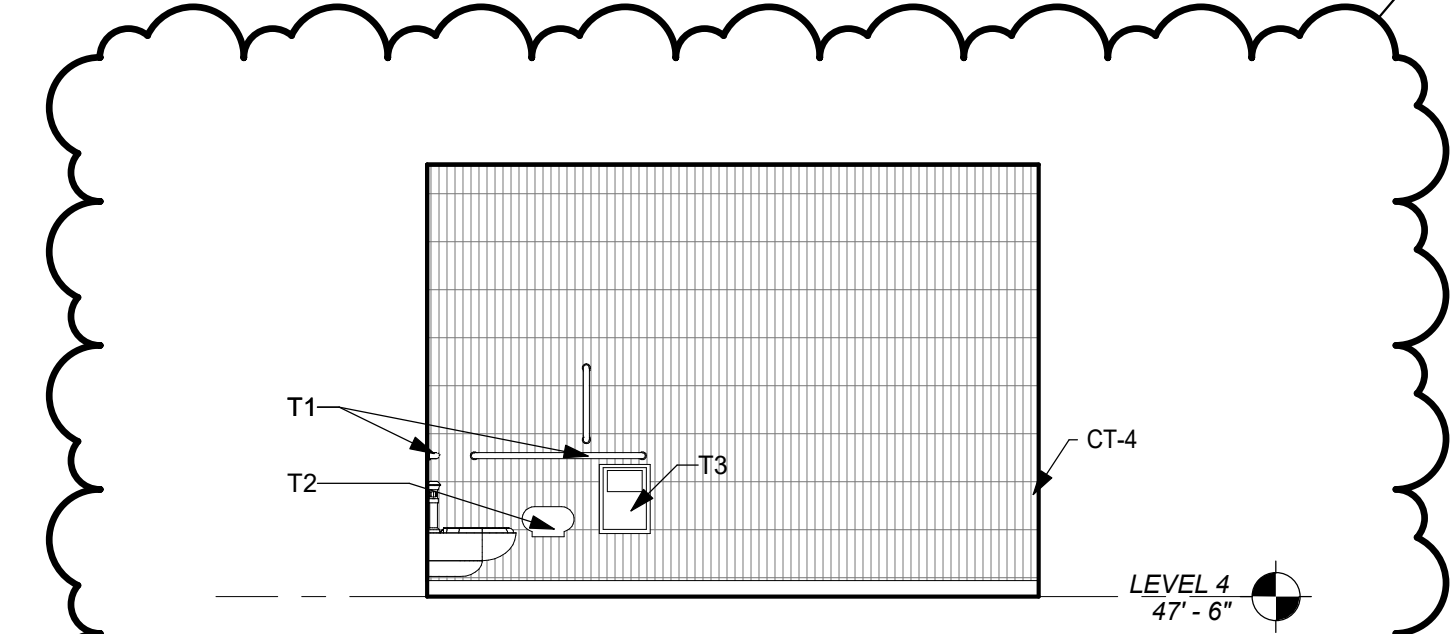
B1 ENLARGED PLAN - RESTROOM LEVEL 3 EAST ADMIN
A154 SCALE: 1/4" = 1'-0"



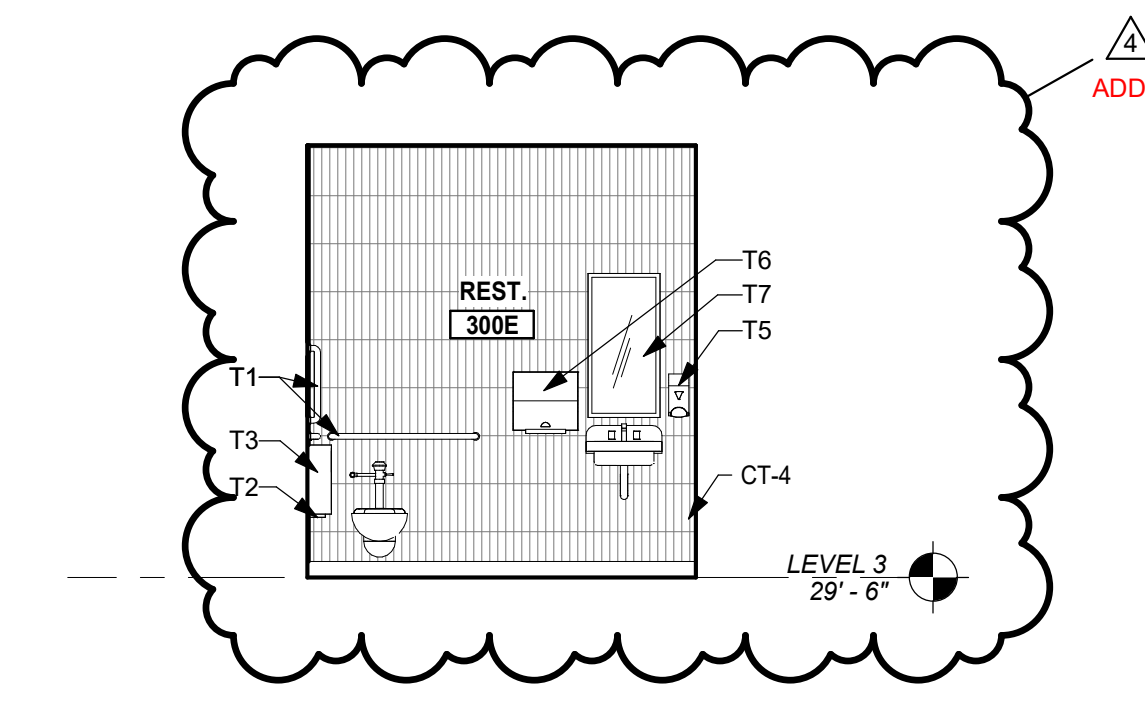
B2 ENLARGED PLAN - RESTROOM LEVEL 4 EAST ADMIN
A154 SCALE: 1/4" = 1'-0"



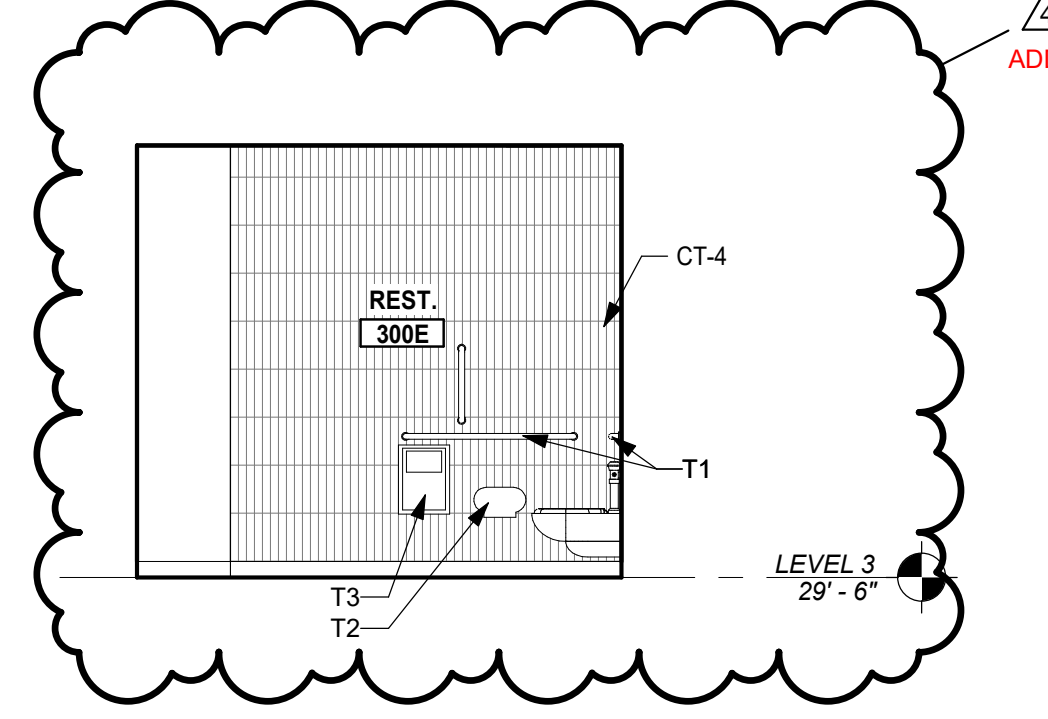
B4 ELEVATION - RESTROOM LEVEL 4 EAST ADMIN
A154 SCALE: 1/4" = 1'-0"



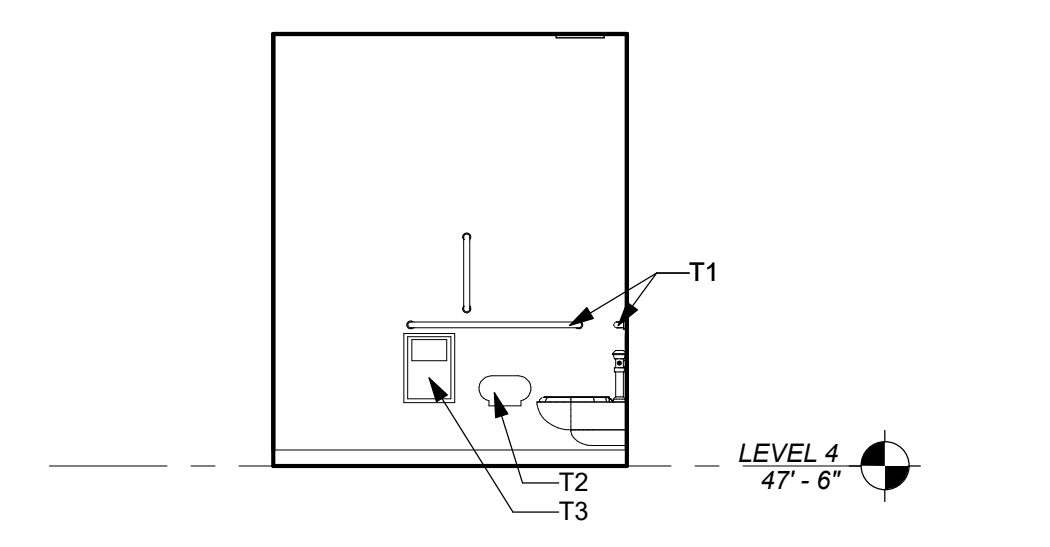
B6 ELEVATION - RESTROOM LEVEL 4 EAST ADMIN
A154 SCALE: 1/4" = 1'-0"



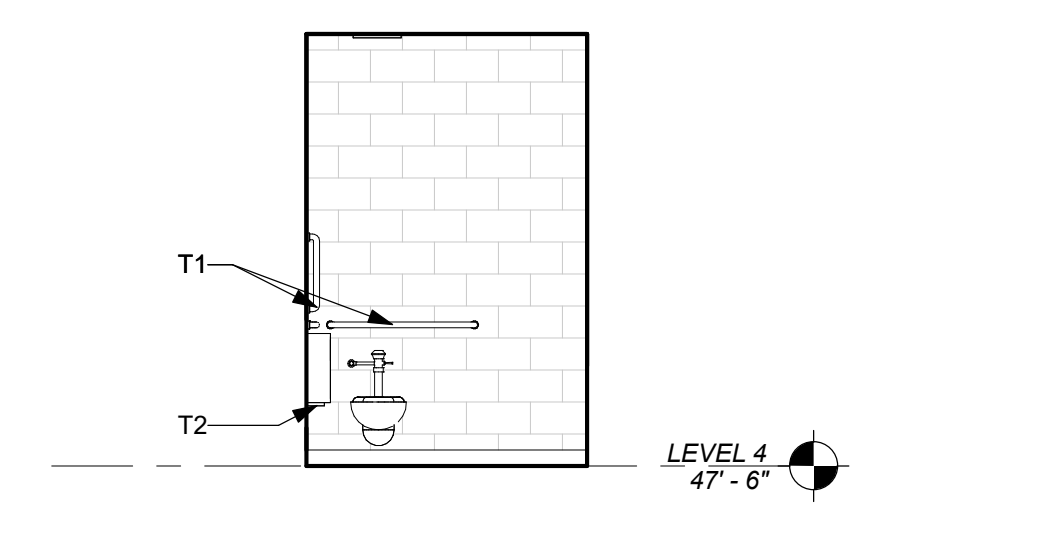
A1 ELEVATION - RESTROOM LEVEL 3 EAST ADMIN
A154 SCALE: 1/4" = 1'-0"



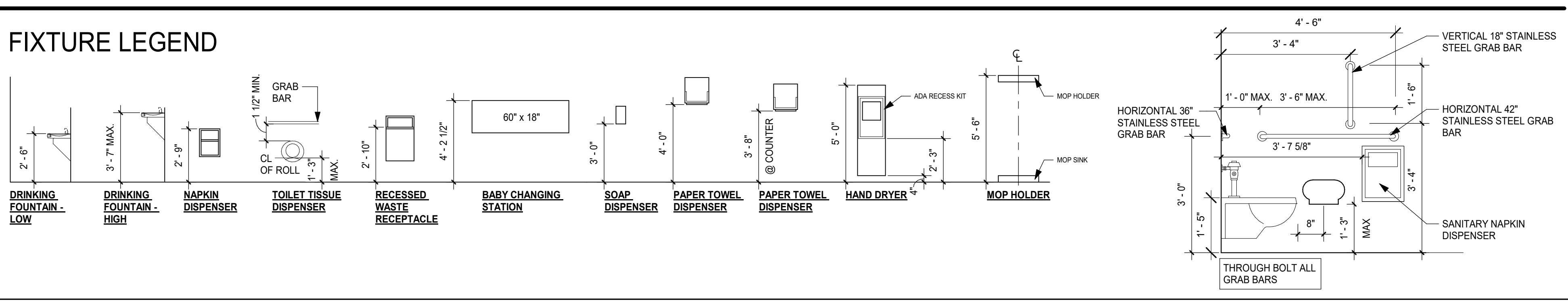
A2 ELEVATION - RESTROOM LEVEL 3 ADMIN
A154 SCALE: 1/4" = 1'-0"



A3 ELEVATION - RESTROOM LEVEL 4 EAST
A154 SCALE: 1/4" = 1'-0"



A4 ELEVATION - RESTROOM LEVEL 4 EAST
A154 SCALE: 1/4" = 1'-0"



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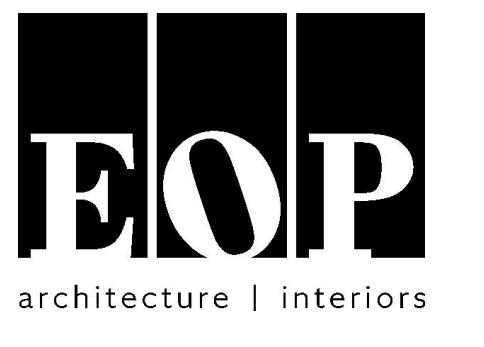
SPECIALTY EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	OF01	OF02	CF01	COMMENTS
G1	65" TV - ADMIN.	-	X	-	TO BE MOUNTED 54" ON CENTER FROM A.F.F.
G2	CARBON FLOOR DRYER	X	-	-	
G3	VENDING MACHINE	X	-	-	
G4	FLOOR SCRUBBER	X	-	-	
G5	12" x 12" DOUBLE STACKED LOCKER	-	-	X	
G6	UNDERCOUNTER REFRIGERATOR	X	-	-	
G7	REFRIGERATOR	X	-	-	
G8	FLOOR COOPER	X	-	-	
G9	METAL DETECTOR	X	-	-	
G10	12"x12" SIX-TIER LOCKER	-	-	X	
G11	MICROWAVE OVEN	X	-	-	
G13	75" TV	-	X	-	
G14	12" x 12" SINGLE TIER LOCKER	-	-	X	
G15	15" x 21" DOUBLE STACKED HEAVY-DUTY VENTILATED METAL LOCKER WITH LEGS	-	-	X	

TOILET ACCESSORIES SCHEDULE

TYPE MARK	DESCRIPTION	OF01	OF02	CF01	COMMENTS
T1	18"x36"x42" ADA GRAB BAR	-	-	X	REFER TO FIXTURE LEGEND
T2	BATH TISSUE DISPENSER	X	-	-	
T3	SANITARY NAPKIN DISPOSAL	-	-	X	
T4	ROBE HOOK	-	-	X	
T5	SOAP DISPENSER	X	-	-	
T6	PAPER TOWEL DISPENSER	X	-	-	
T7	MIRROR - 18"W x 36"H	-	-	X	
T8	MOP AND BROOM HOLDER	-	-	X	
T9	WATER BOTTLE FILLING STATION	-	-	X	
T10	XLERATOR HAND DRYER - RECESSED	-	-	X	PROVIDE ADA RECESS KIT

REVISIONS	
#	DESCRIPTION
4	10/28/22 Revision 4



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Job Number 2150 PLAN
Drawn By Author
Checked By Checker
Date 09/28/2022



ENLARGED INTERIOR ELEVATIONS

A180

E1 INTERIOR ELEVATION
A180 SCALE: 1/4" = 1'-0"

E3 INTERIOR ELEVATION
A180 SCALE: 1/4" = 1'-0"

E4 INTERIOR ELEVATION
A180 SCALE: 1/4" = 1'-0"

D1 INTERIOR ELEVATION
A180 SCALE: 1/4" = 1'-0"

C1 INTERIOR ELEVATION
A180 SCALE: 1/4" = 1'-0"

C2 INTERIOR ELEVATION
A180 SCALE: 1/4" = 1'-0"

B1 INTERIOR ELEVATION
A180 SCALE: 1/4" = 1'-0"

B3 PIXEL WALL-PAINT LEGEND
A180 SCALE: 1/4" = 1'-0"

A1 INTERIOR ELEVATION
A180 SCALE: 1/4" = 1'-0"

A2 PIXEL WALL-PAINT LEGEND - MEDIA WALL
A180 SCALE: 1/4" = 1'-0"

A5 INTERIOR ELEVATION
A180 SCALE: 1/4" = 1'-0"

C4 INTERIOR ELEVATION
A180 SCALE: 1/2" = 1'-0"

C5 TYPICAL CLASSROOM WAYFINDING
A180 SCALE: 1/8" = 1'-0"

B6 PIXEL WALL 3D SECTION
A180 SCALE: 1/8" = 1'-0"

GENERAL NOTES

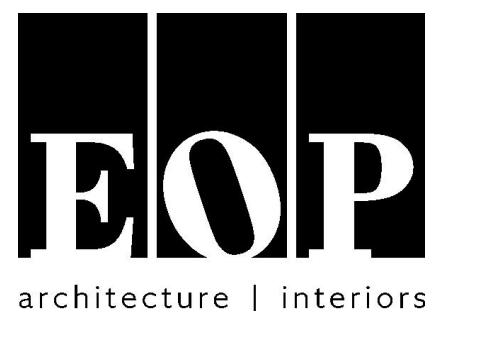
- PT-5 IS SHOWN FOR 1ST FLOOR TYPICAL COLORS. ACCENT PAINT WILL VARY BETWEEN FLOORS. PLEASE REFER TO FINISH SCHEDULE AND ELEVATIONS FOR PAINT COLORS.
- REFER TO SHEET A511 FOR EXPANSION JOINT DETAILS & LOCATIONS

**NEW FCPS
COMBINED CTE
SCHOOL**

BG# 22-167
100 Midland Ave.
Lexington, KY 40508

BID DOCUMENTS

REVISIONS	
#	DESCRIPTION
4	10/28/22 Revision 4



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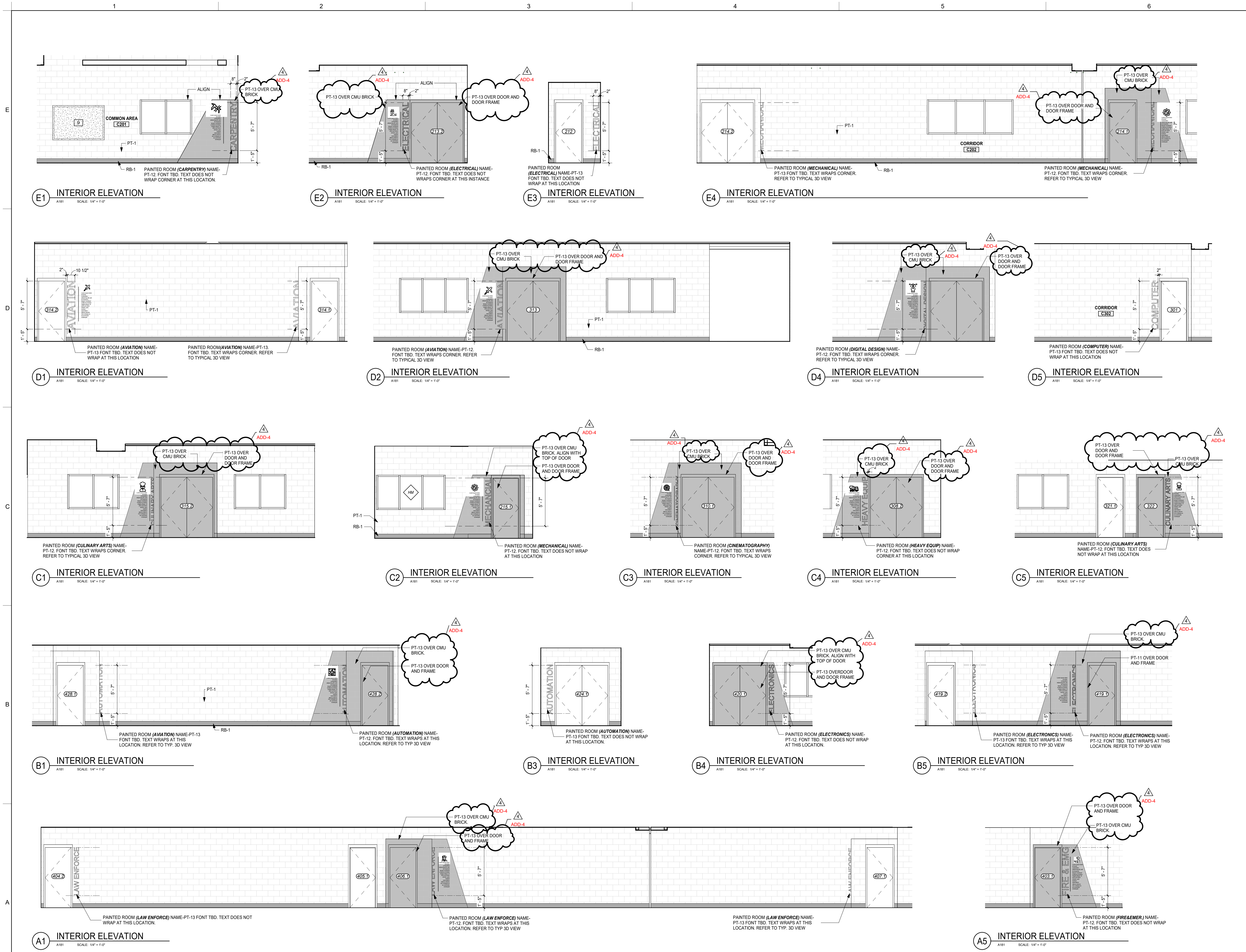
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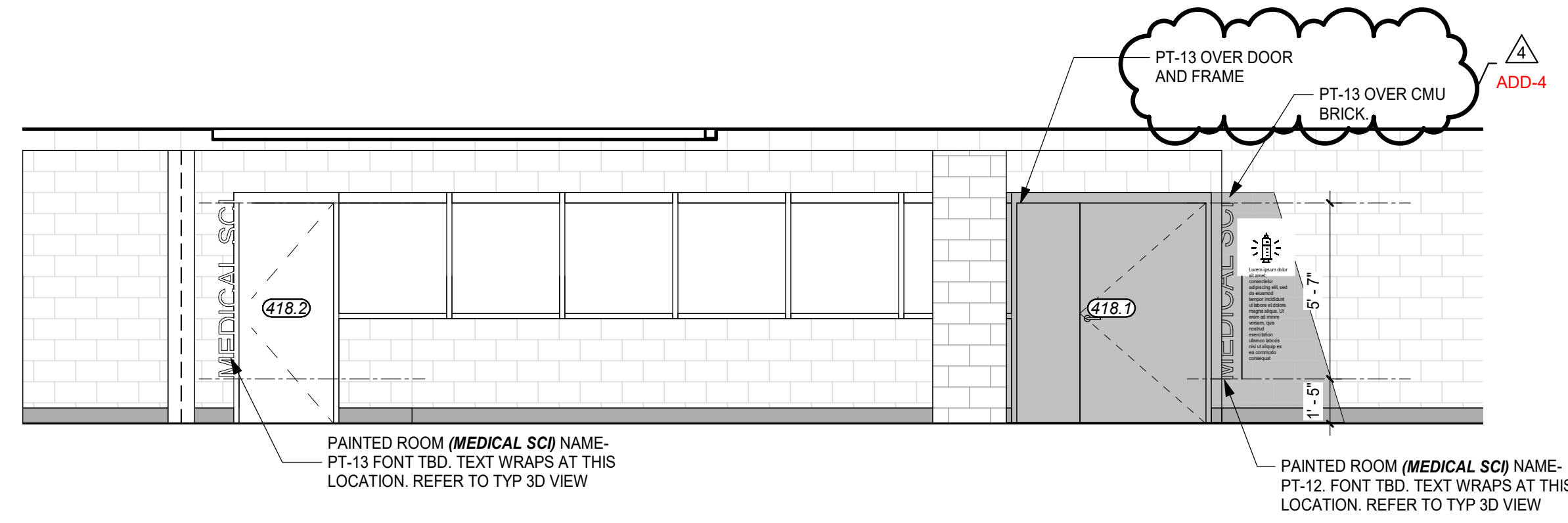
Job Number 2150
Drawn By Author
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Date 09/28/2022



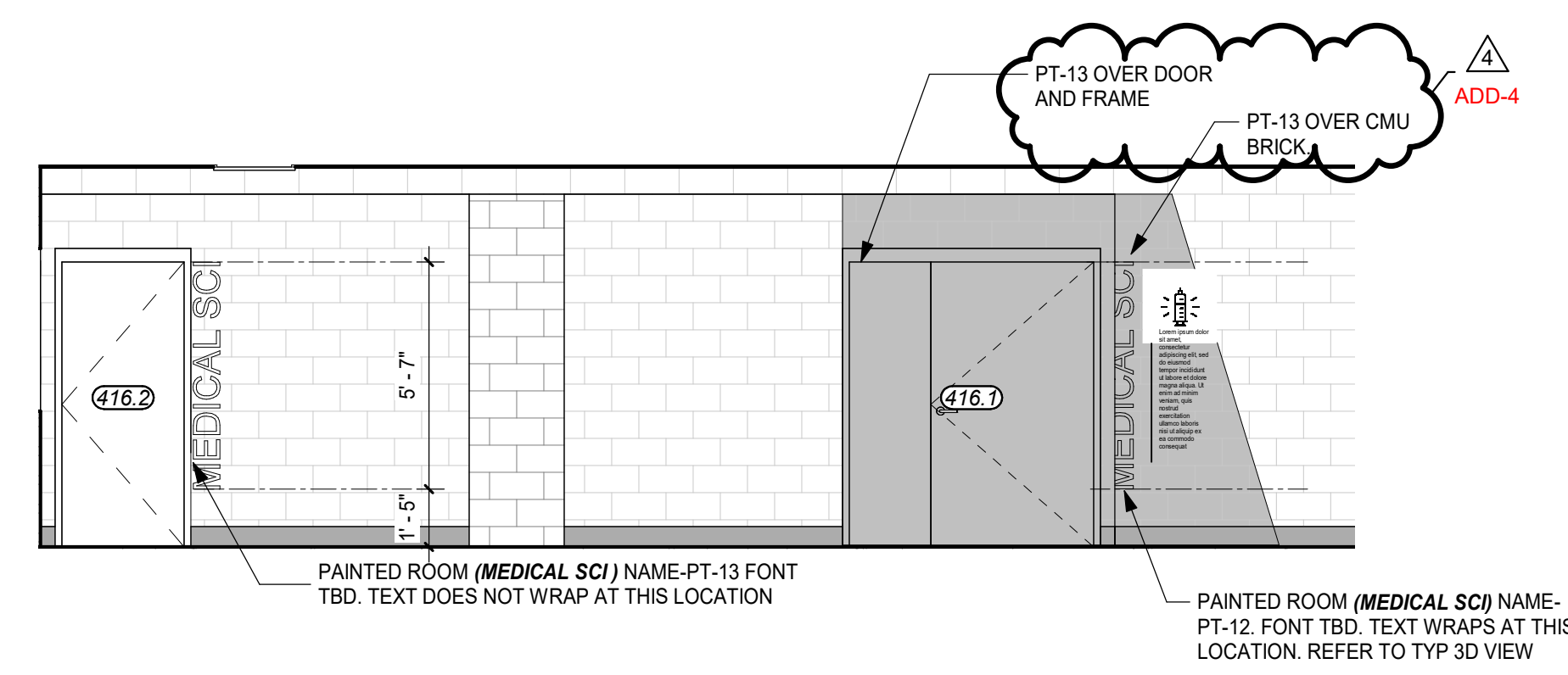
ENLARGED INTERIOR ELEVATIONS

A181

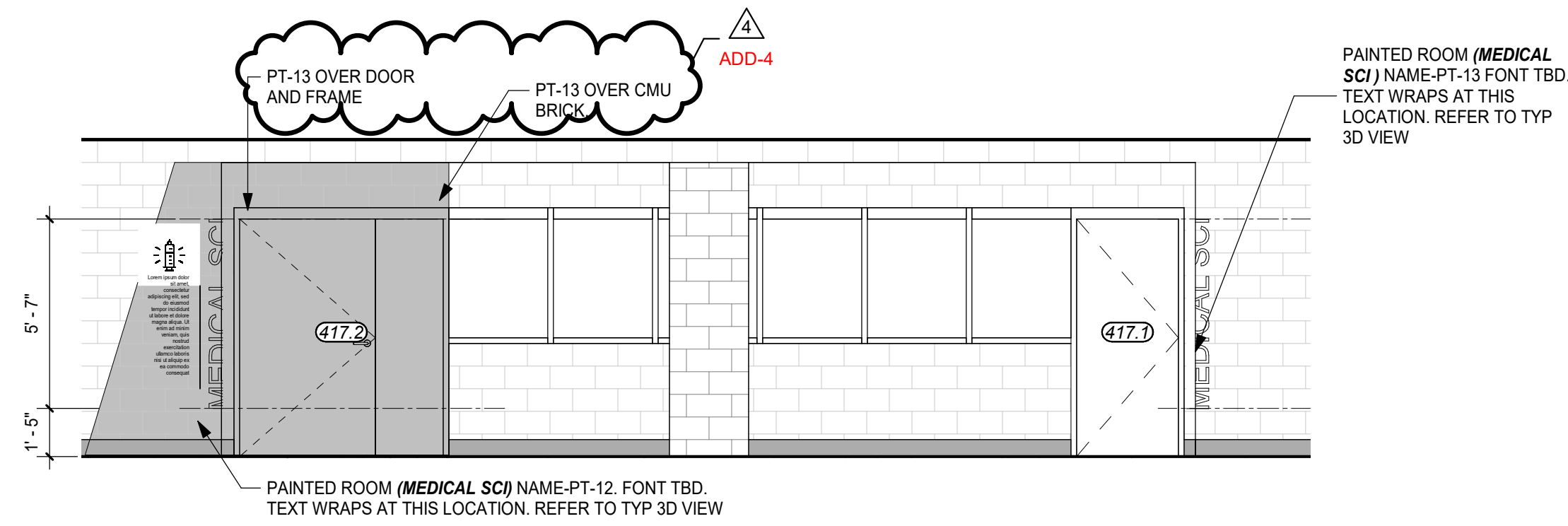




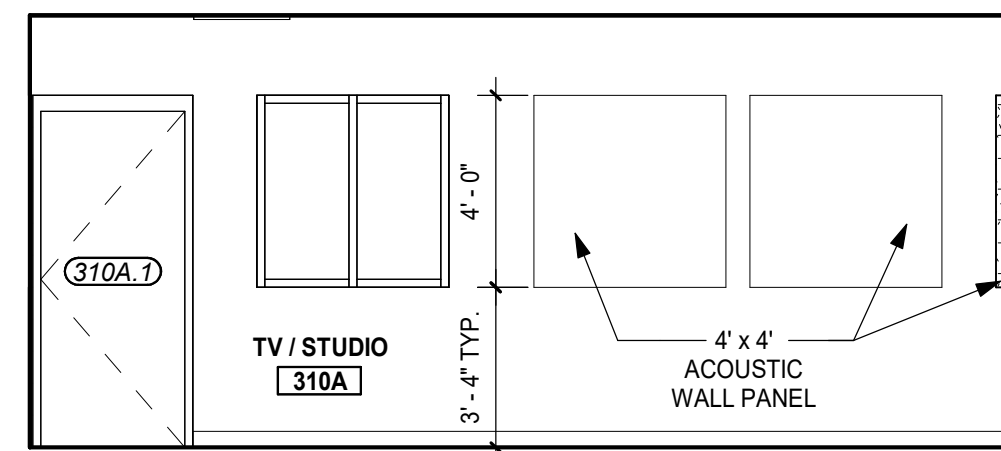
E1 INTERIOR ELEVATION
A182 SCALE: 1/4" = 1'-0"



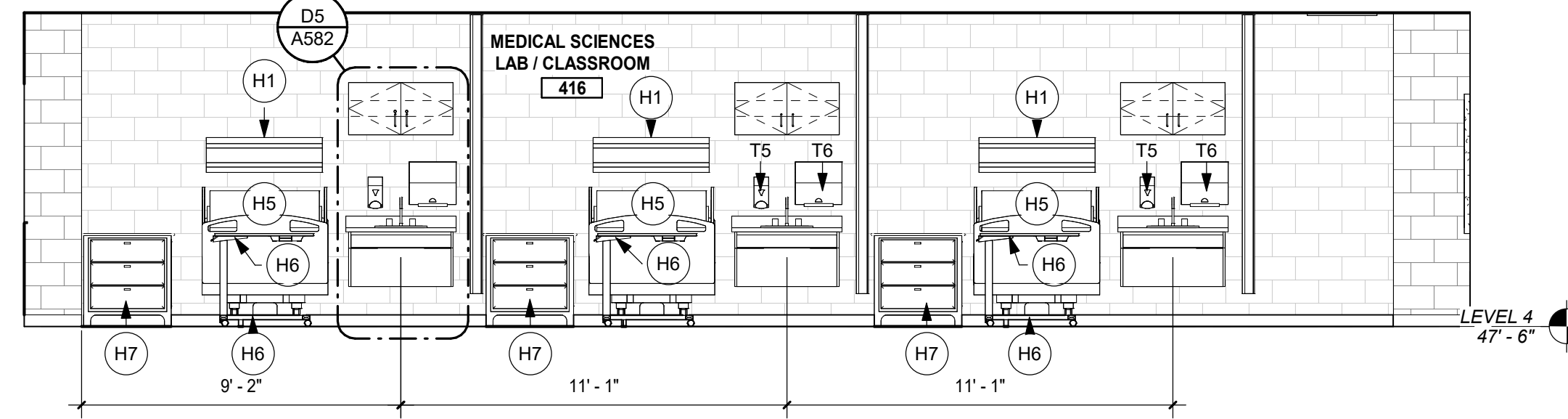
E4 INTERIOR ELEVATION
A182 SCALE: 1/4" = 1'-0"



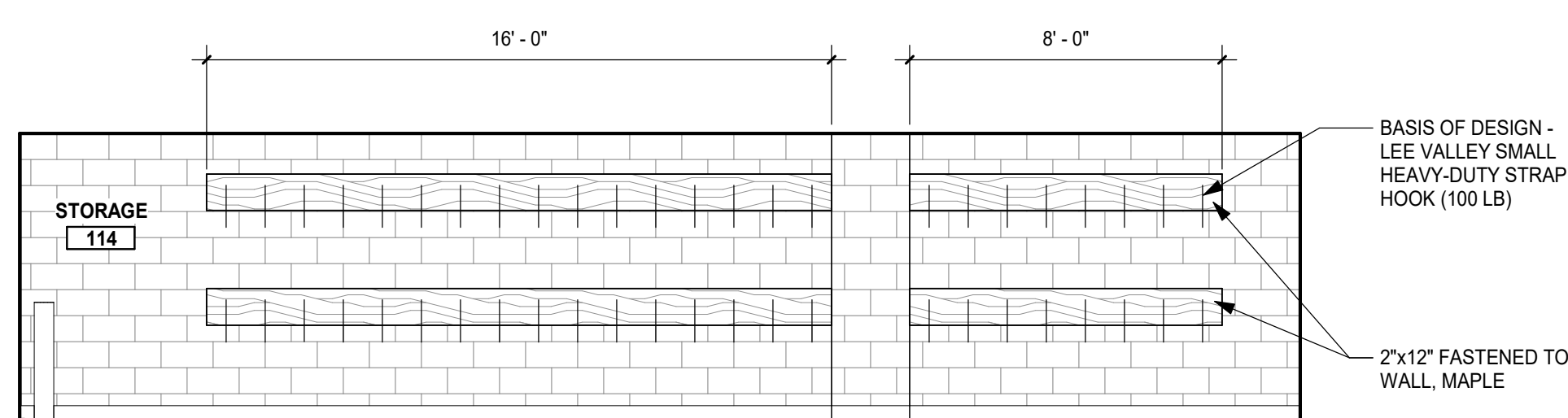
C1 INTERIOR ELEVATION
A182 SCALE: 1/4" = 1'-0"



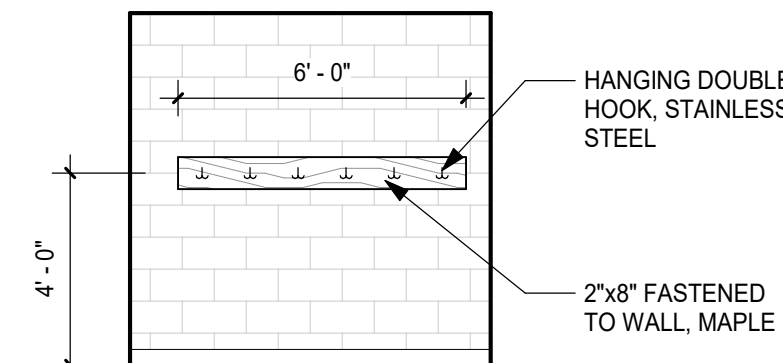
B1 INTERIOR ELEVATION
A182 SCALE: 1/4" = 1'-0"



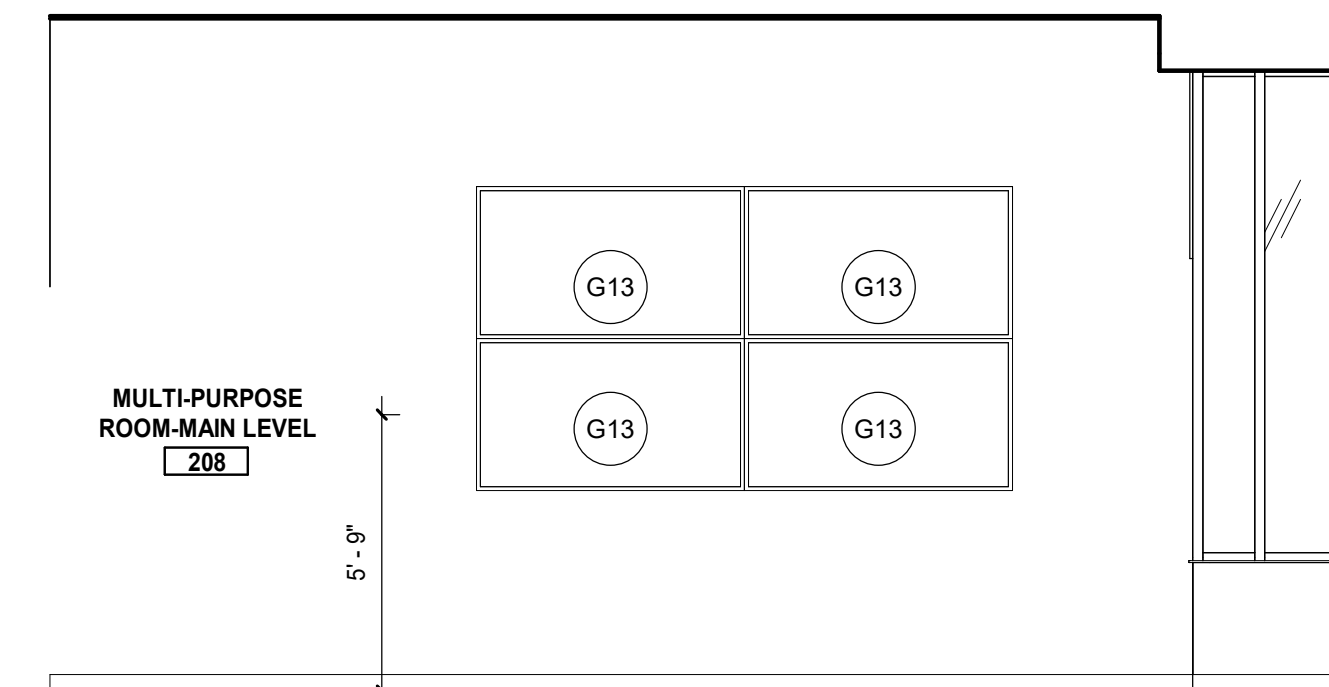
B3 INTERIOR ELEVATION
A182 SCALE: 1/4" = 1'-0"



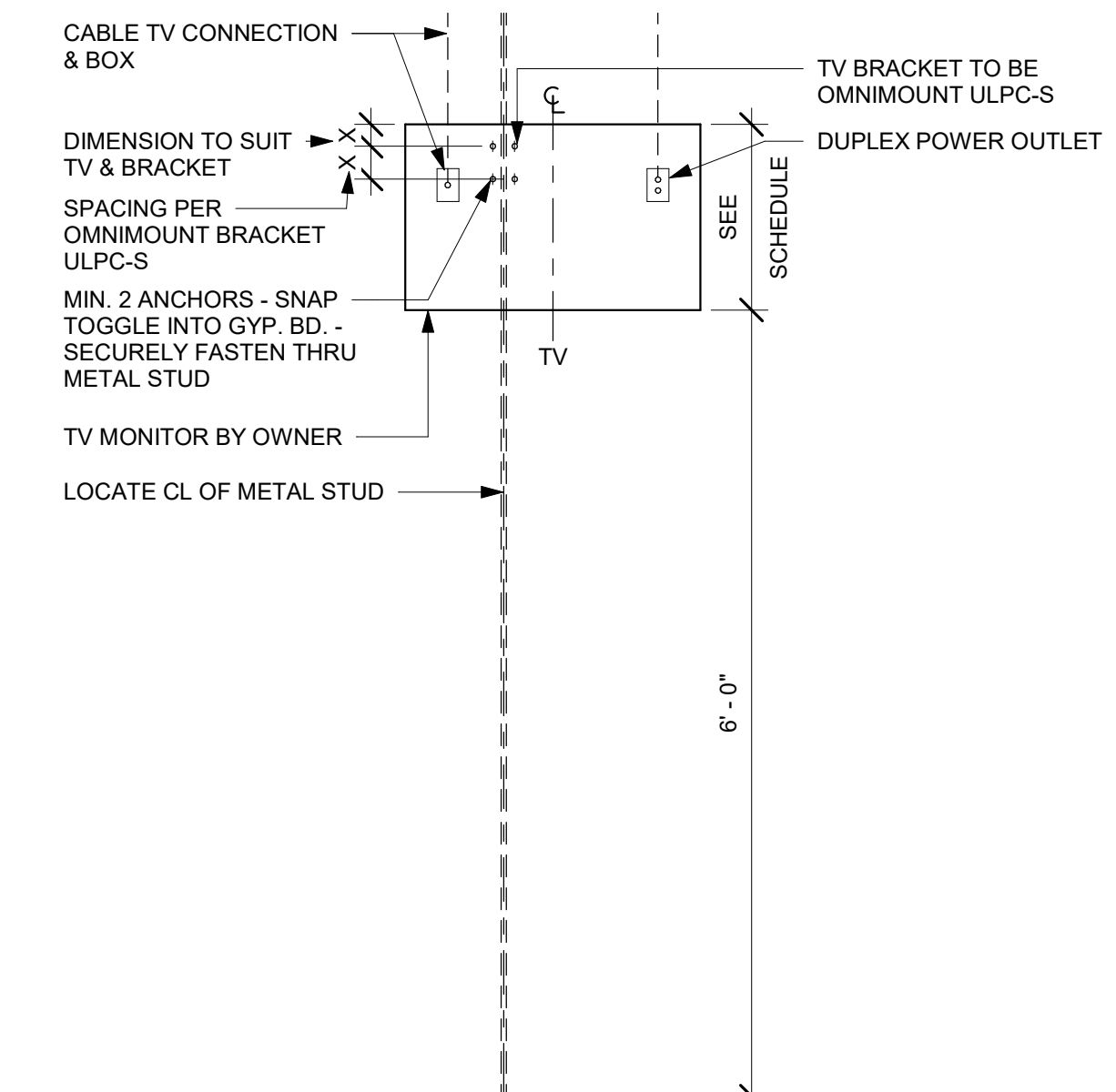
A1 INTERIOR ELEVATION
A182 SCALE: 1/4" = 1'-0"



A3 INTERIOR ELEVATION
A182 SCALE: 1/4" = 1'-0"

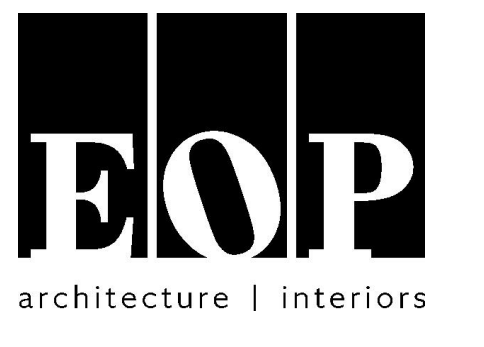


A4 INTERIOR ELEVATION
A182 SCALE: 1/4" = 1'-0"



A5 TYP. TV MOUNTING DETAIL
A182 SCALE: 3/4" = 1'-0"

REVISIONS		
#	DATE	DESCRIPTION
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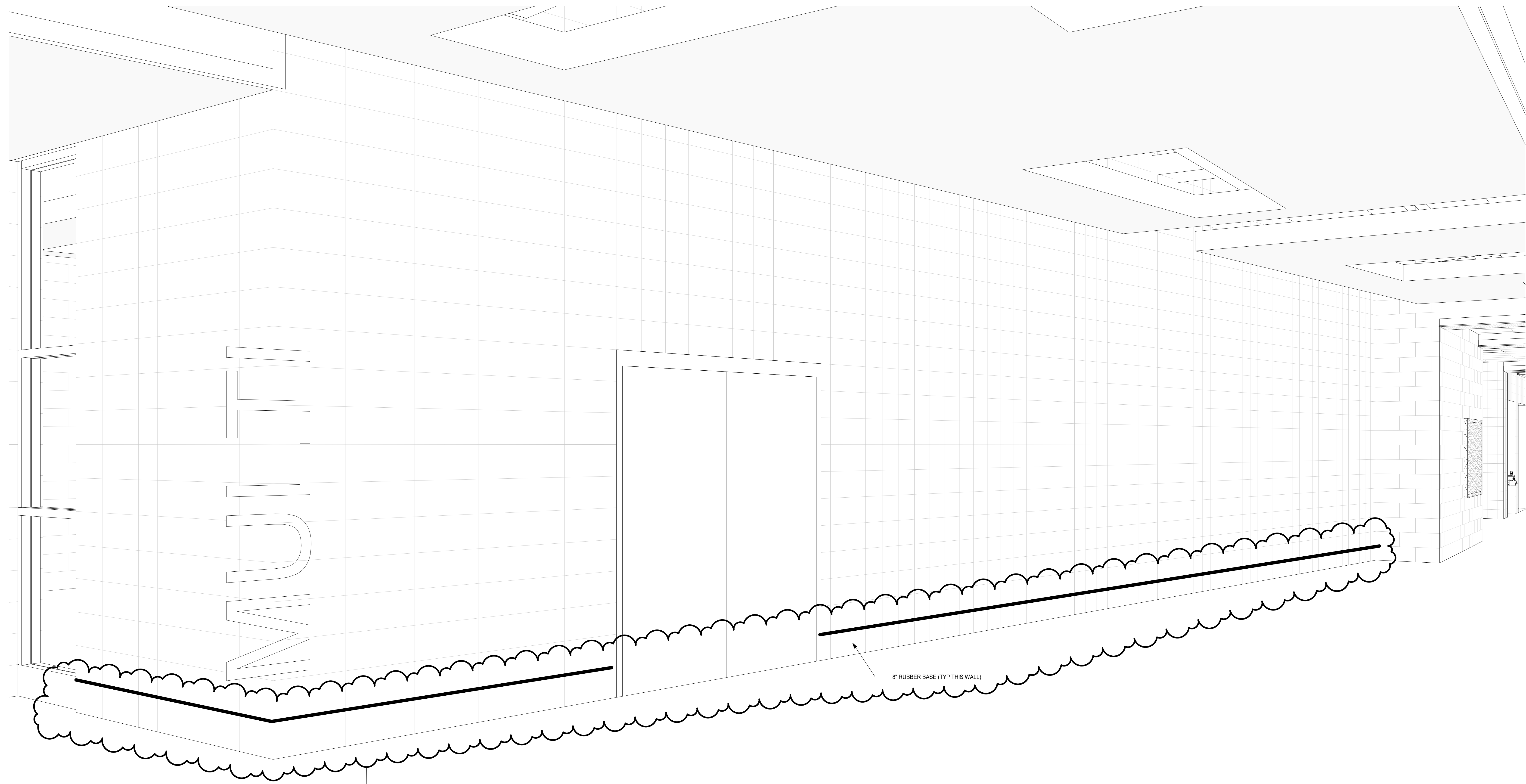
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ENLARGED INTERIOR ELEVATIONS

A182



ADD-4

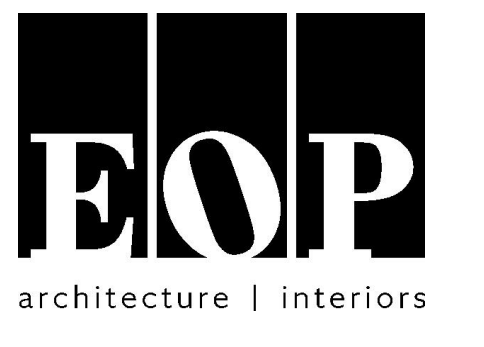
8" RUBBER BASE (TYP THIS WALL)

A1 PIXEL WALL
1/8" = 1' SCALE

10/28/2022 3:05:16 PM

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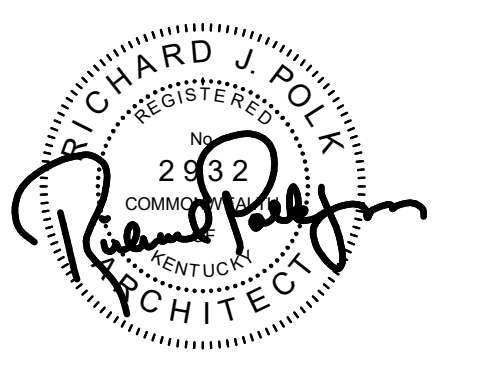
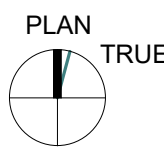
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Date 09/28/2022

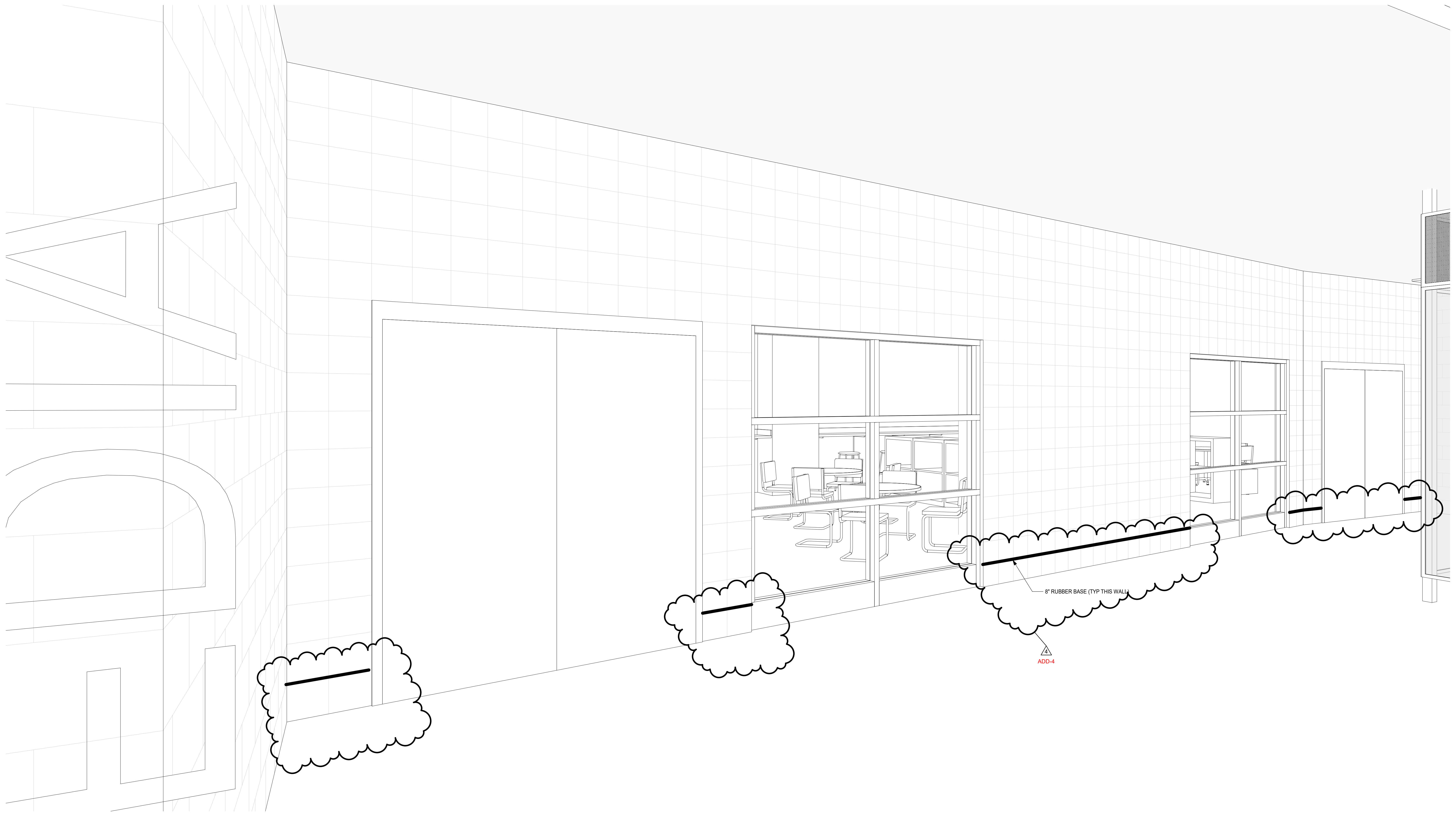


PIXEL ART WALL

A184

1 2 3 4 5 6

E
D
C
B
A



A1 MEDIA WALL
SCALE

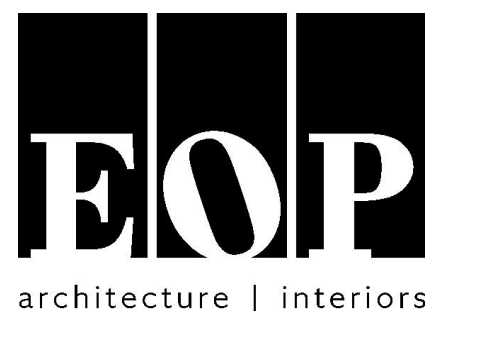
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REVISIONS		
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4	10/28/22	Revision 4



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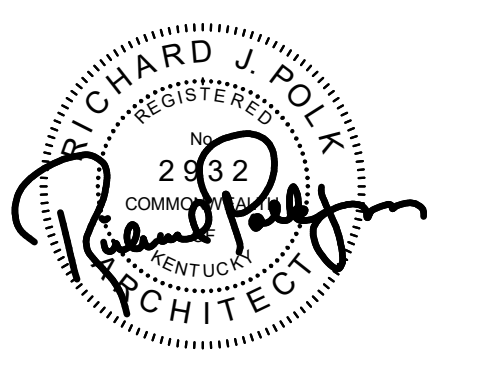
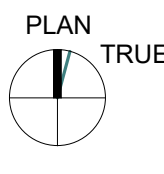
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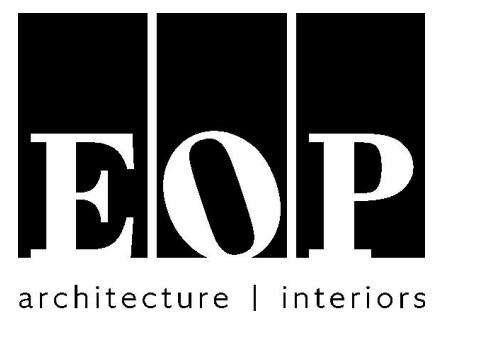
Job Number 2150
Drawn By HB
Checked By Checker
Date 09/28/2022



PIXEL ART WALL -
MEDIA

A185

REVISIONS		
#	DATE	DESCRIPTION
3	10/21/22	Revision 3
4	10/28/22	Revision 4



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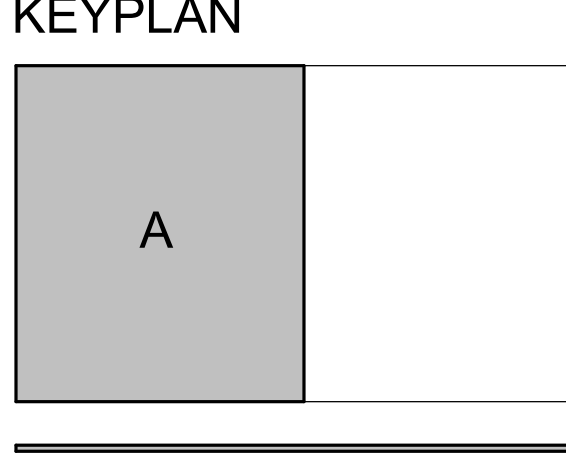
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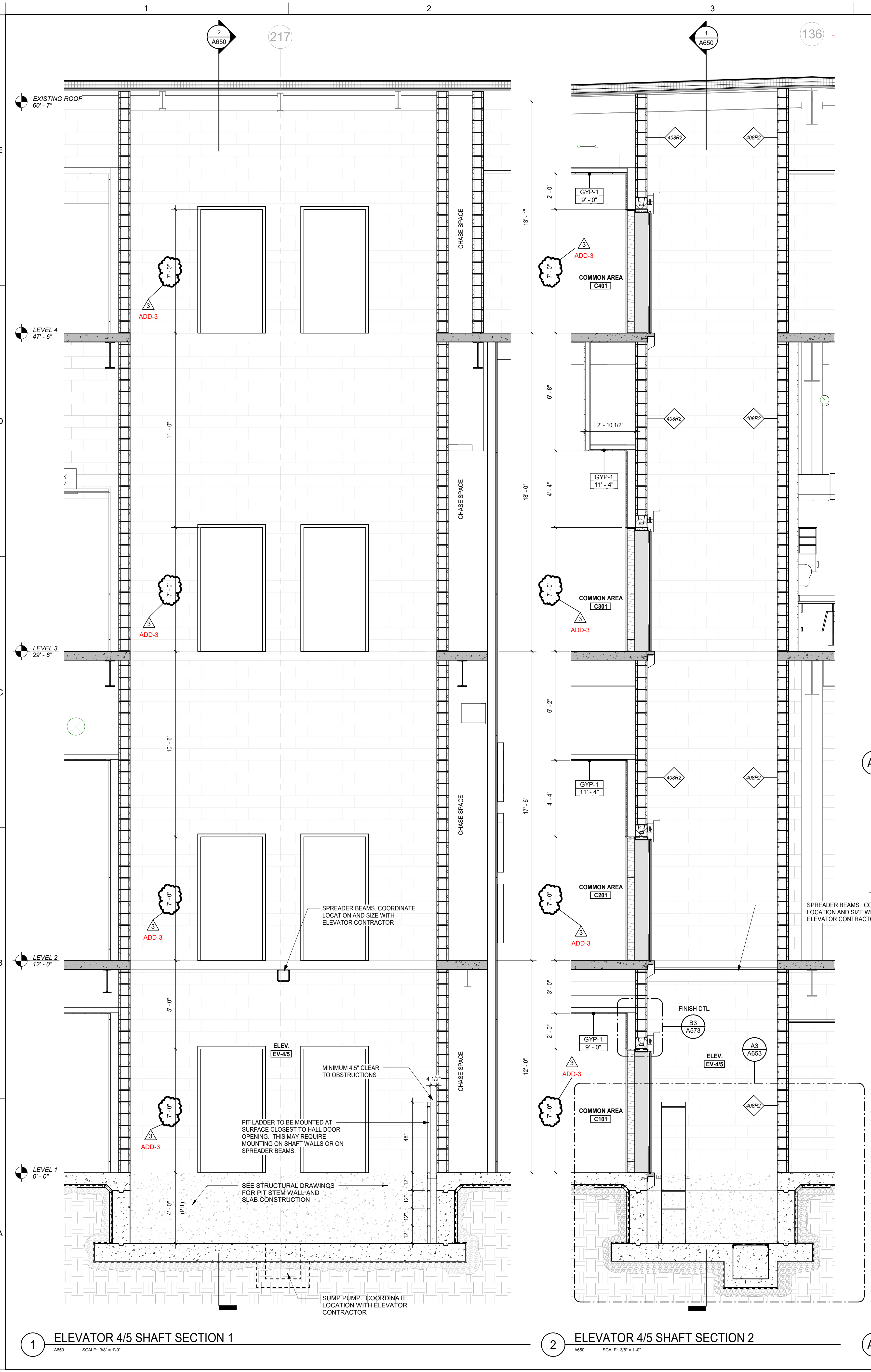
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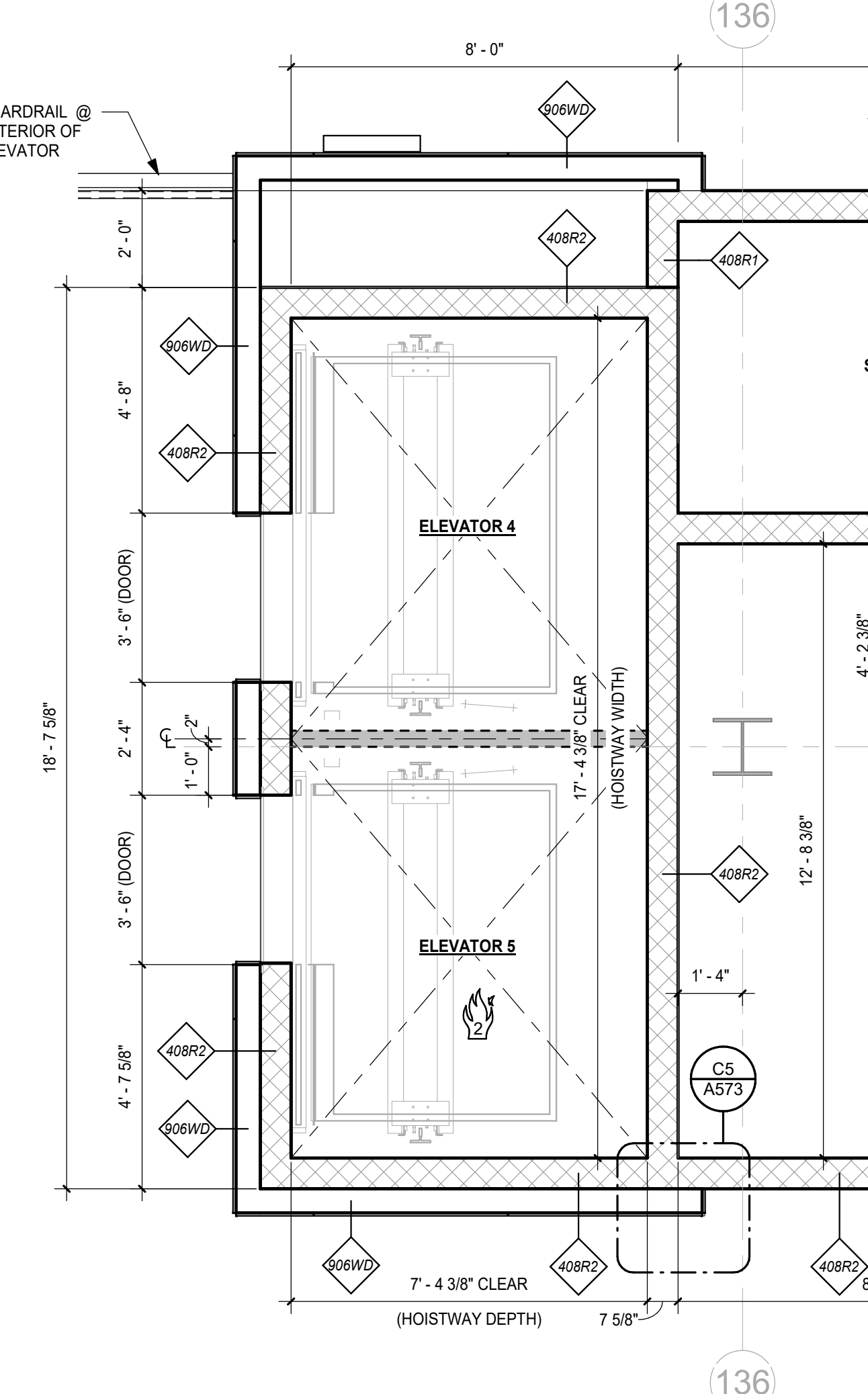
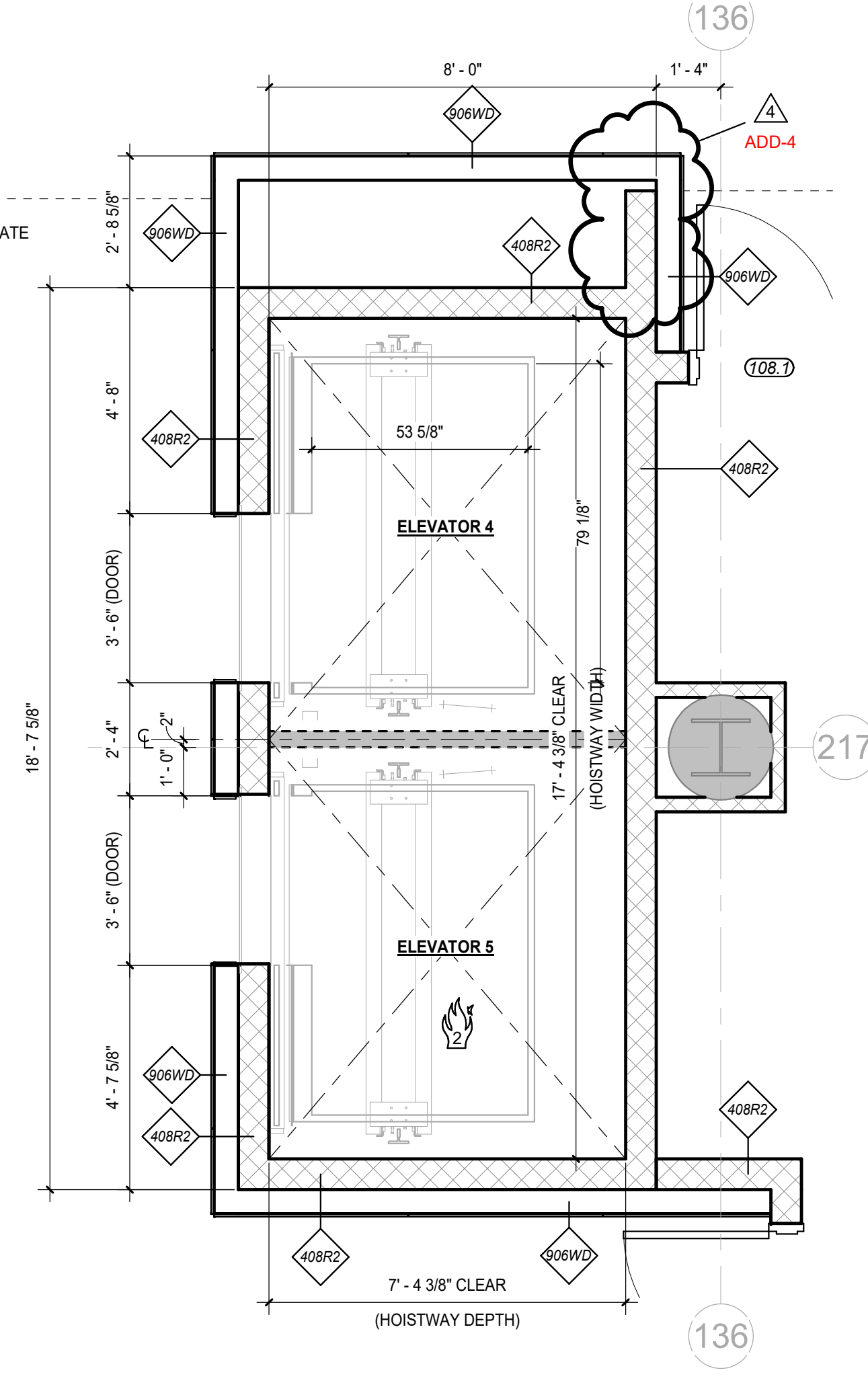
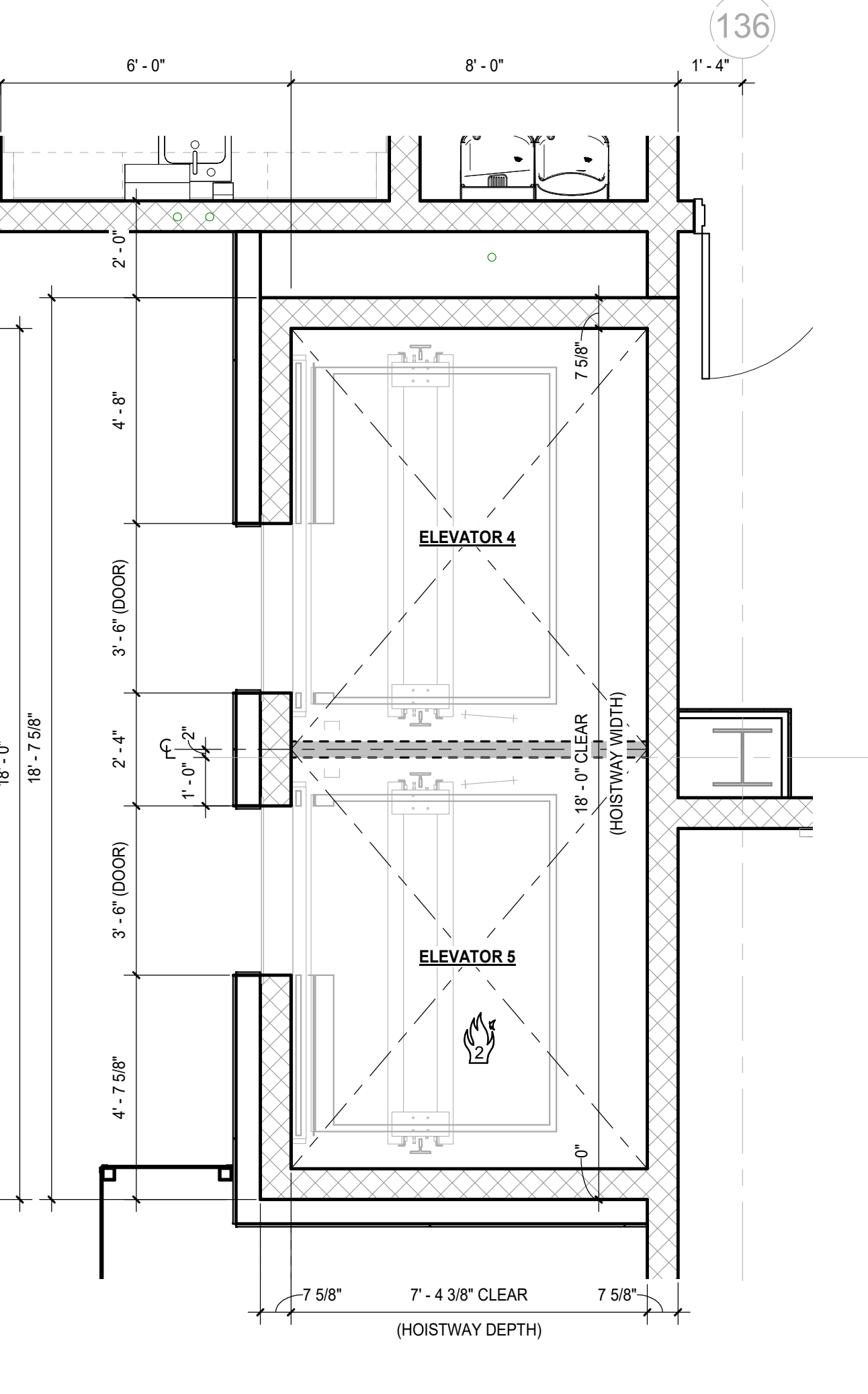
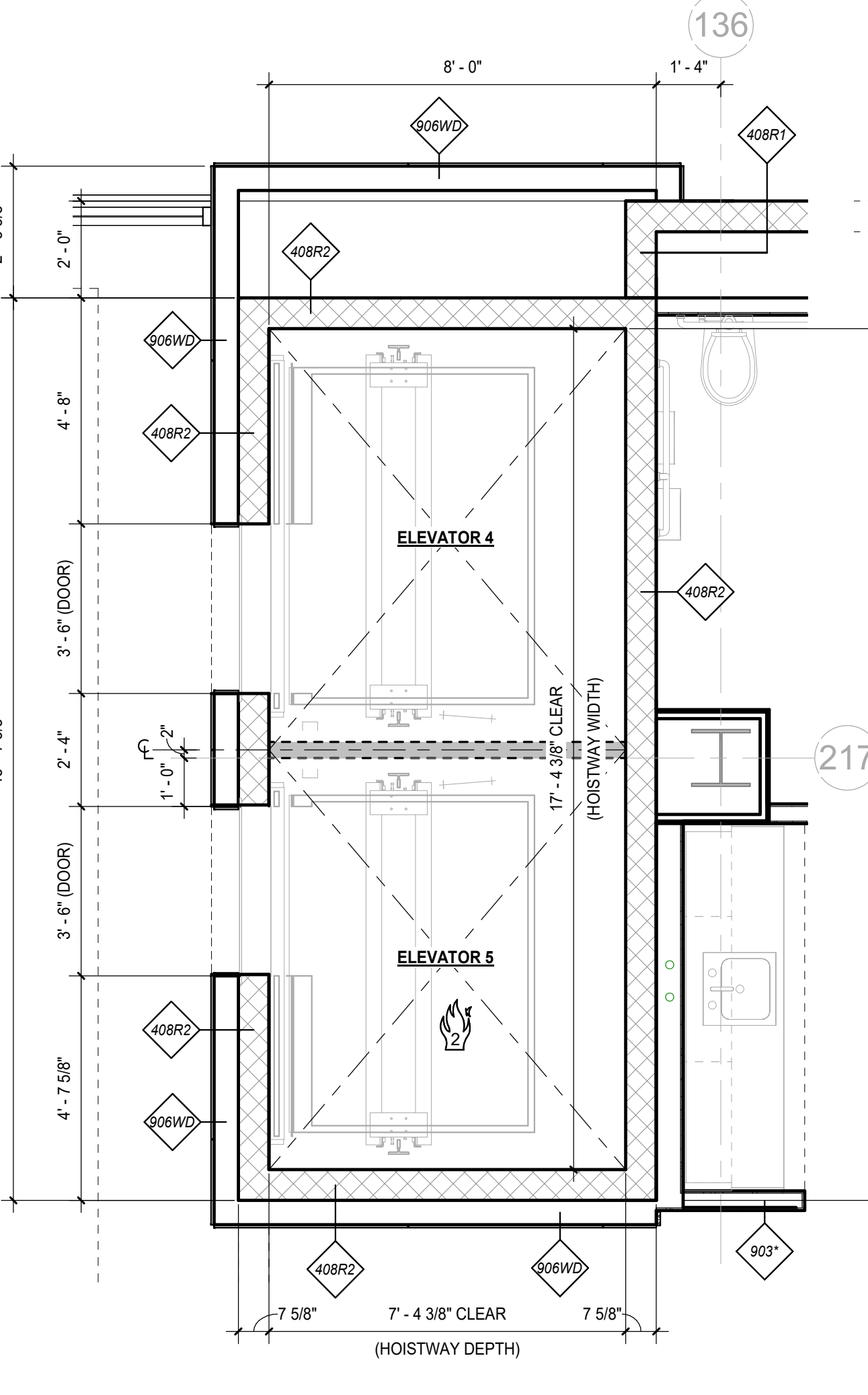


**VERTICAL
CIRCULATION -
ELEVATORS**

A650

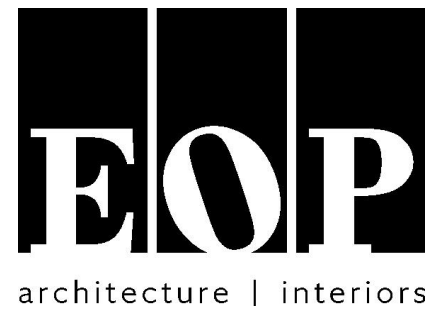


NOTE: REFER TO INTERIOR DETAIL SHEETS A572 & A573, FOR ELEVATOR SHAFT FINISHES & DETAILS



10/26/2022 2:21:11 PM

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4	10/28/22	Revision 4



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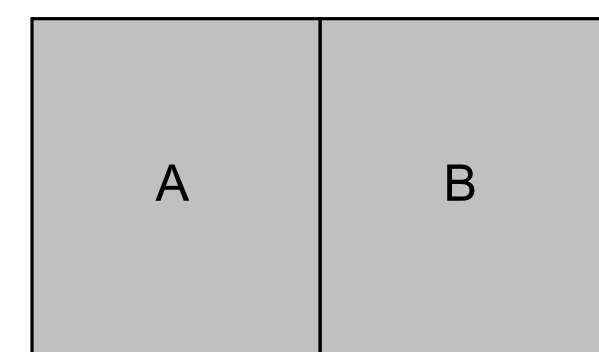


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KEYPLAN



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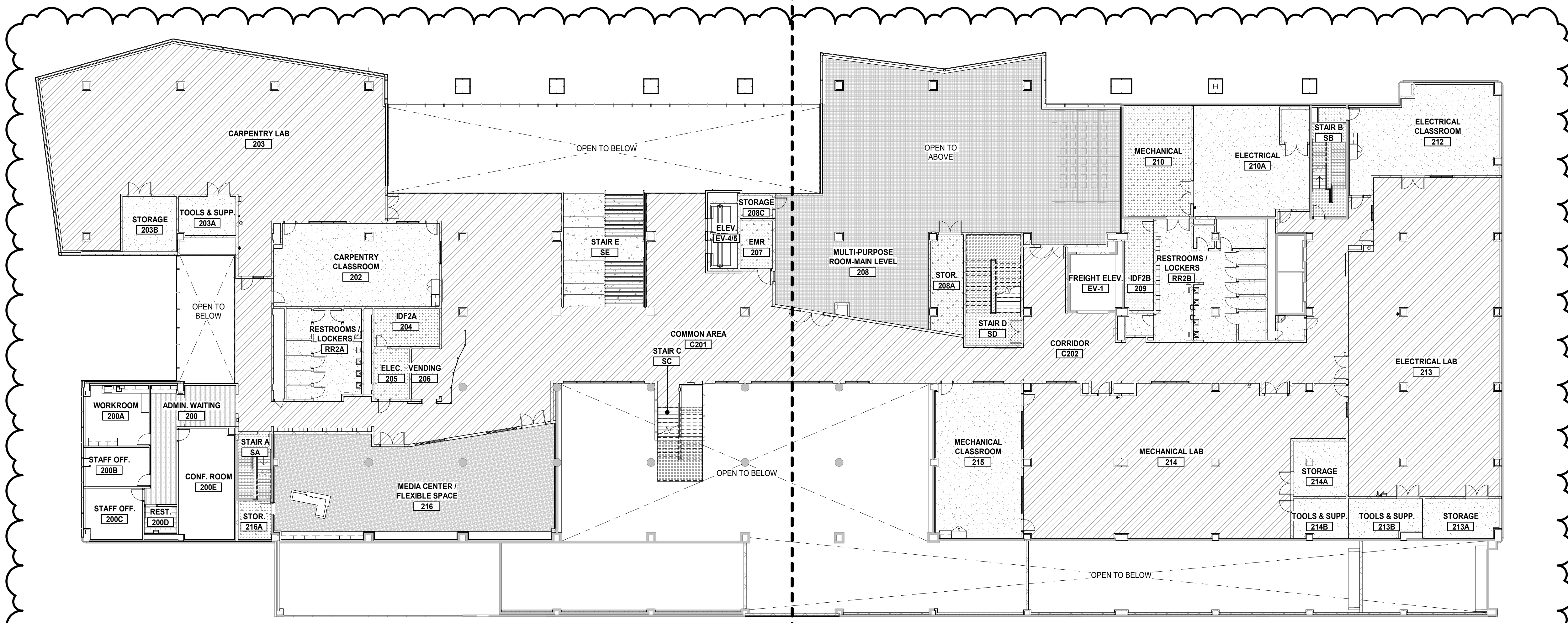
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Job Number 2150 PLAN
Drawn By Author TRUE
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Date 09/28/2022

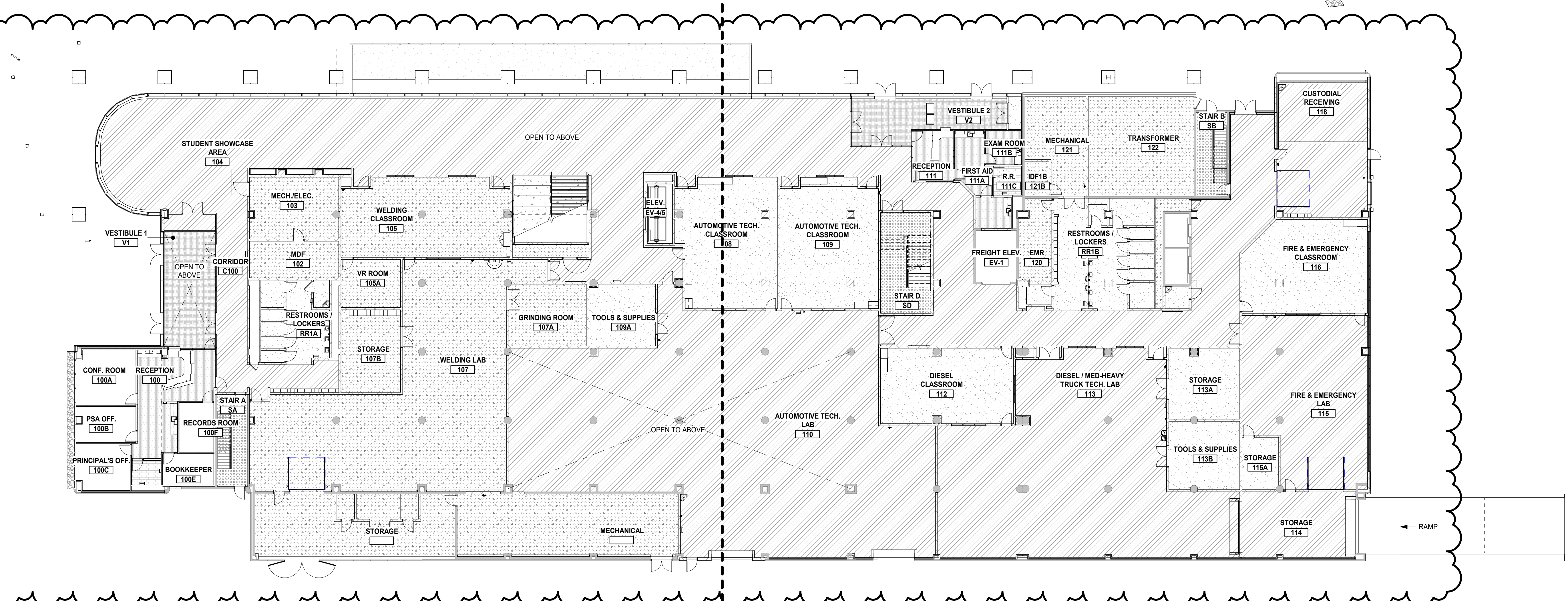


**OVERALL FINISH
FLOOR PLANS**

A800a



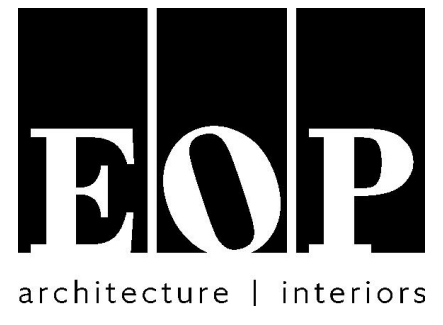
C1 LEVEL 2 OVERALL FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"



A1 LEVEL 1 OVERALL FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"

10/28/2022 2:35:56 PM

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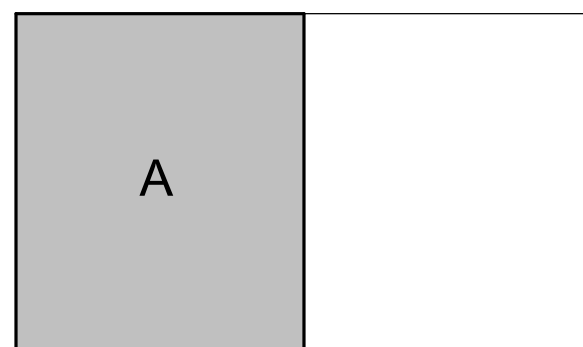


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KEYPLAN

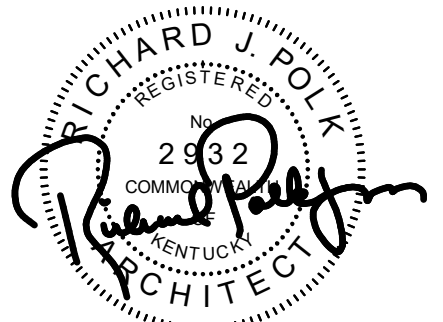


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LEVEL 2A FINISH FLOOR PLAN

A802a



A1 LEVEL 2A FINISH FLOOR PLAN
SCALE: 1/8" = 1'-0"

FINISH FLOOR LEGEND		
CPT-1 (WALK-OFF CARPET)	CT-1 (PORCELAIN TILE)	APC CMU CPT CT
CPT-2 (CARPET)	RF-R1 (RUBBER FLOOR TILE- RAISED DISC)	LVT PL RF RB RF SC SS
LV-1 (LUXURY VINYL TILE)	EF-1 EPOXY FLOOR (99 MILS)	AC 4" RUBBER BASE RUBBER FLOORING SEALED CONCRETE SOLID SURFACE
RF-2 (RUBBER SPORTS TILE)	EF-2 EPOXY FLOOR (119 MILS)	
CONC. (SEALED CONCRETE)	LVT-2	

GENERAL NOTES

A. REFER TO REFLECTED CEILING PLAN FOR CEILING PAINT LOCATIONS

NUMBER	ROOM NAME	FLOORS						CEILING
		FINISH	BASE	EAST	NORTH	SOUTH	WEST	
200	ADMIN. WAITING	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
200A	WORKROOM	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
200B	STAFF OFF.	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
200C	STAFF OFF.	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
200D	REST.	CT-1	CT-3	CT-4	CT-4	CT-4	CT-4	GYP-1PT-3
200E	CONF. ROOM	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
201	CUST.	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1
202	CARPENTRY CLASSROOM	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
203	CARPENTRY LAB	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
203A	TOOLS & SUPP.	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
203B	STORAGE	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
204	IDF2A	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
205	ELEC.	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
206	VENDING	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
207	EMR	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
208	MULTI-PURPOSE ROOM-MAIN LEVEL	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
208A	STOR.	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
208C	STORAGE	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
209	IDF2B	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
210	MECHANICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
210A	ELECTRICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
210B	ELEC.	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
211	CUST.	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1
212	ELECTRICAL CLASSROOM	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
212A	STORAGE	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
213	ELECTRICAL LAB	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
213A	STORAGE	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
213B	TOOLS & SUPP.	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
214	MECHANICAL LAB	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
214A	STORAGE	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
214B	TOOLS & SUPP.	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
215	MECHANICAL CLASSROOM	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
216	MEDIA CENTER / FLEXIBLE SPACE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1
216A	STOR.	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
C200	CORRIDOR	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
C201	COMMON AREA	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
C202	CORRIDOR	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6
EV-1	FREIGHT ELEV.							
EV-2/3	ELEV.	LVT-1		STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	
EV-4/5	ELEV.	LVT-1		STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	
RR2A	RESTROOMS / LOCKERS	EF-1	RB-1	PT-2/CT-5	PT-2	PT-2/CT-5	PT-2/CT-5	GYP-1PT-3
RR2B	RESTROOMS / LOCKERS	EF-1	RB-1	PT-2/CT-5	PT-2	PT-2/CT-5	PT-2/CT-5	GYP-1PT-3
SA	STAIR A	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1
SB	STAIR B	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1
SC	STAIR C	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1
SD	STAIR D	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1
SE	STAIR E	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1

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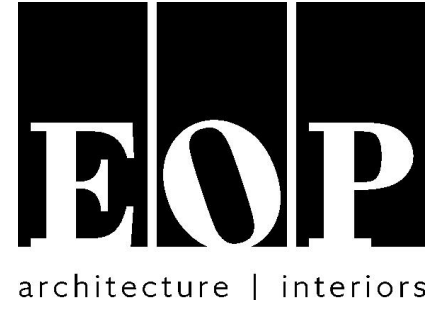
**NEW FCPS
COMBINED CTE
SCHOOL**

BG# 22-167

100 Midland Ave.
Lexington, KY 40508

BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/22	Revision 4



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Lexington, KY 40504



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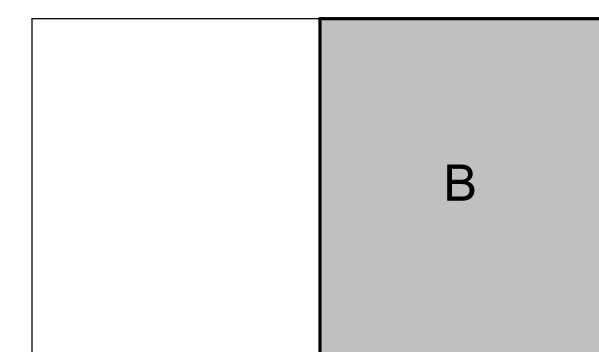


Reitano Design Group
302 N. East Street, Studio One
Indianapolis, IN 46202



Calvert - Independent Hardware
Specifications, LLC.
307 Oakwood Circle
Vine Grove, KY 40175

KEYPLAN

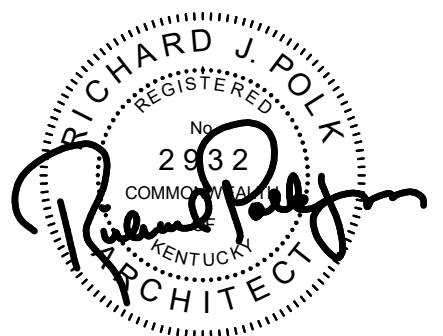


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Job Number 2150
Drawn By Author
Checked By Checker
Date 09/28/2022



LEVEL 2B FINISH FLOOR PLAN

A802b



A1 LEVEL 2B FINISH FLOOR PLAN
A802b SCALE: 1/8" = 1'-0"

FINISH FLOOR LEGEND		
CPT-1 (WALK-OFF CARPET)	CT-1 (PORCELAIN TILE)	APC CMU
CPT-2 (CARPET)	RF-R1 (RUBBER FLOOR TILE- RAISED DISC)	CT
LV-1 (LUXURY VINYL TILE)	EF-1 EPOXY FLOOR (99 MILS)	EF
RF-2 (RUBBER SPORTS TILE)	EF-2 EPOXY FLOOR (119 MILS)	LVT
CONC. (SEALED CONCRETE)	LVT-2	PL
		PT
		RF
		SC
		SS

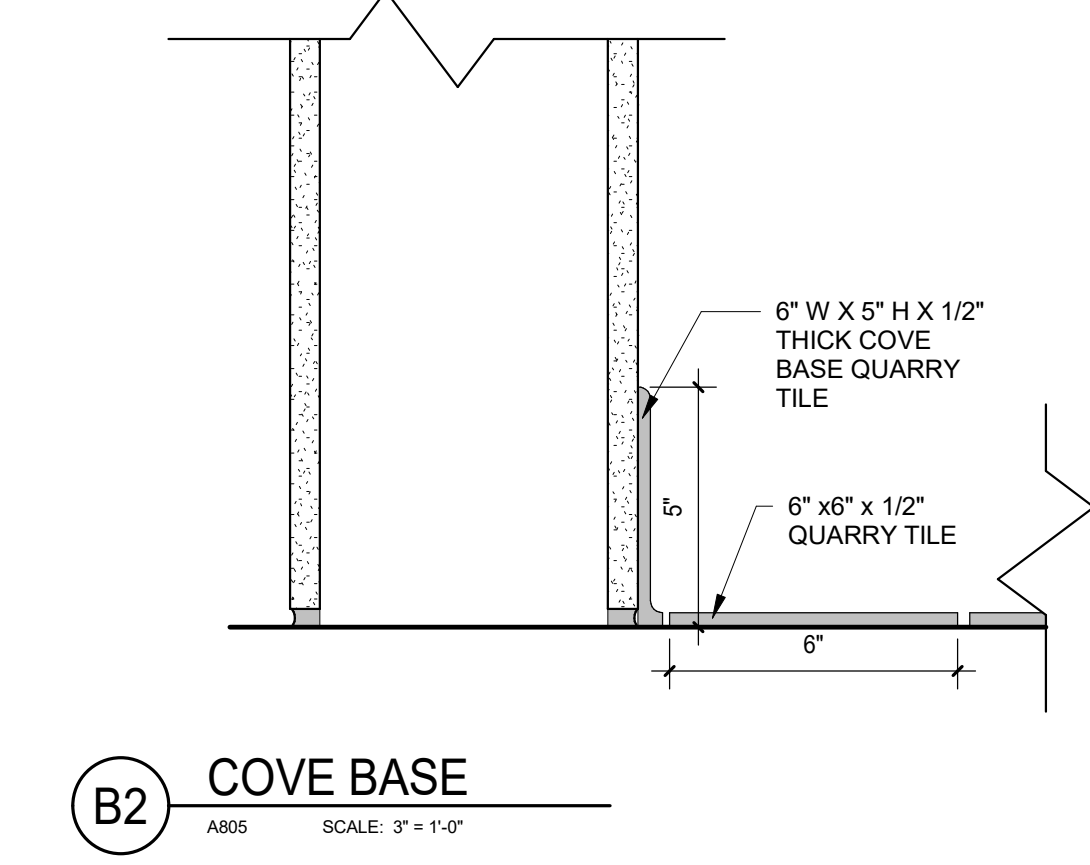
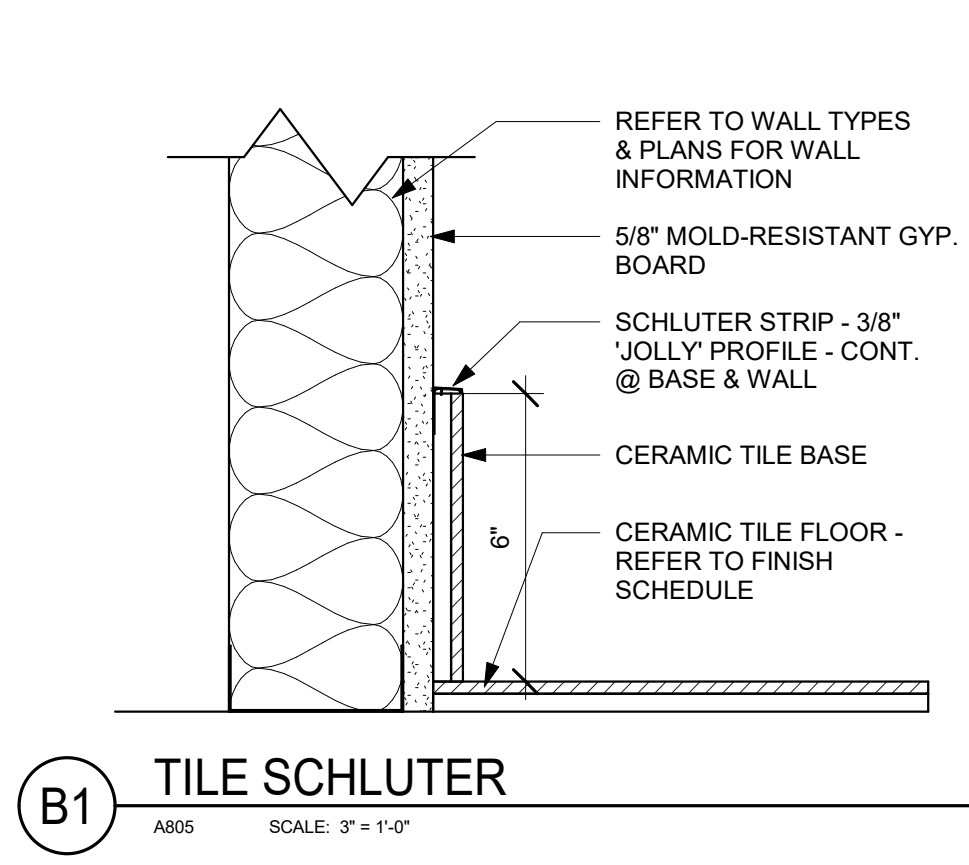
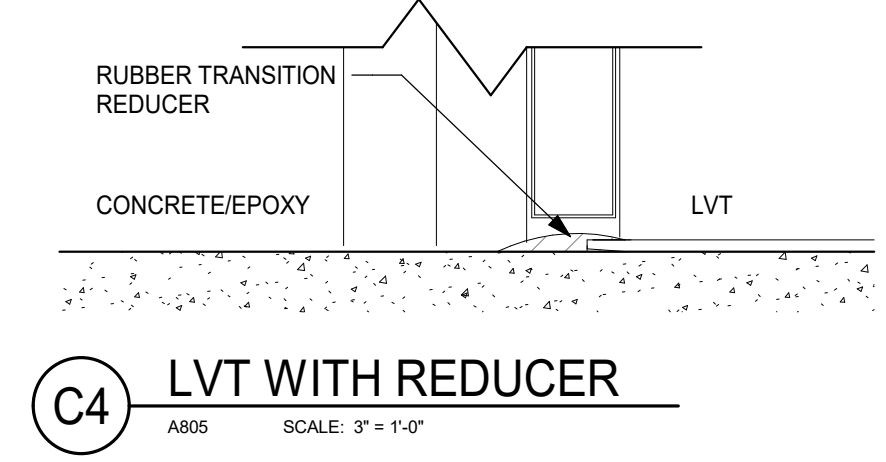
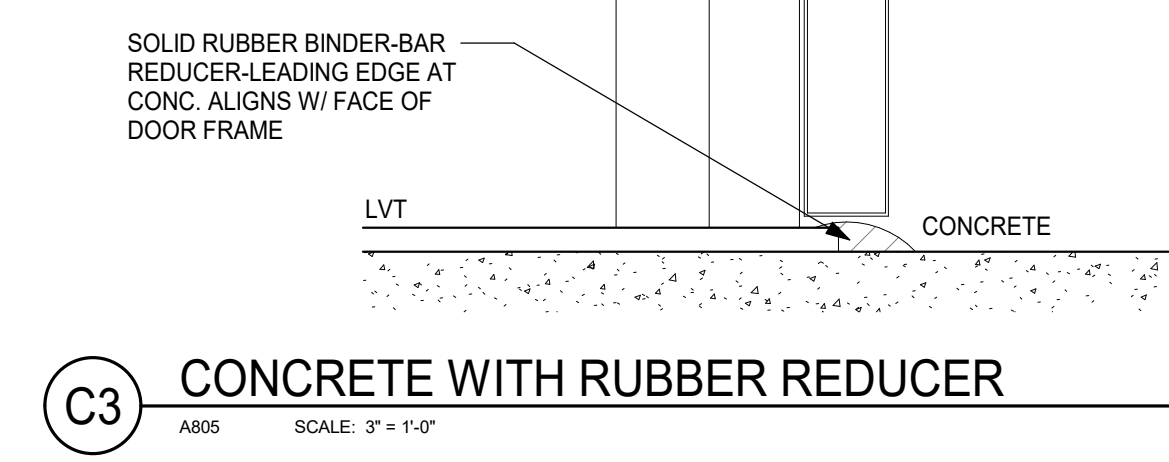
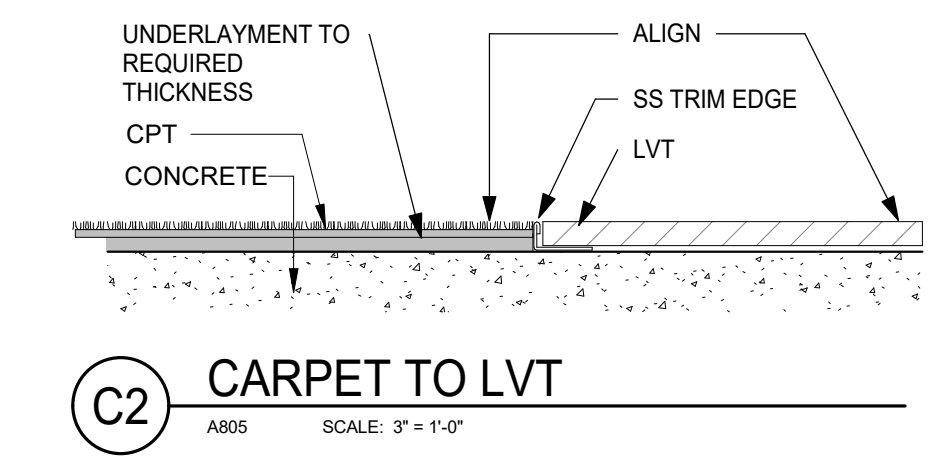
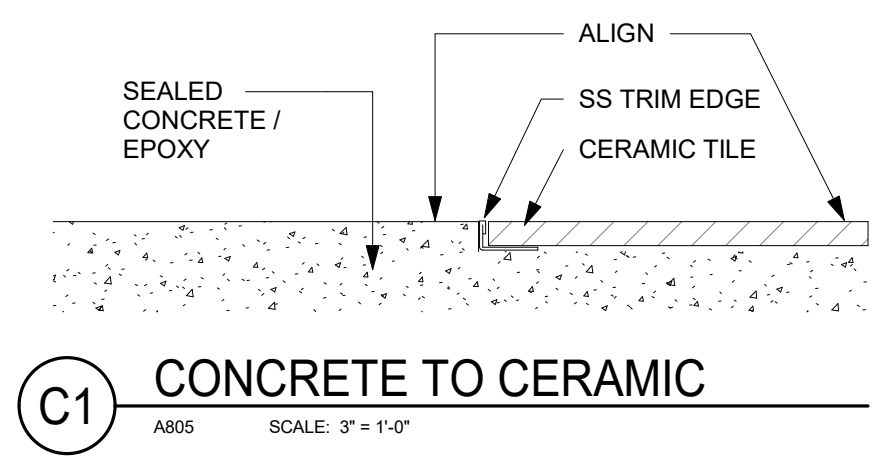
GENERAL NOTES

A. REFER TO REFLECTED CEILING PLAN FOR CEILING PLAN LOCATIONS.

ROOM FINISH SCHEDULE- LEVEL 2									
NUMBER	ROOM NAME	FLOORS				WALLS			CEILING
		FINISH	BASE	EAST	NORTH	SOUTH	WEST		
200	ADMIN. WAITING	LVT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
200A	WORKROOM	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
200B	STAFF OFF.	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
200C	STAFF OFF.	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
200D	REST.	CT-1	CT-3	CT-4	CT-4	CT-4	CT-4	GYR-1/PT-3	
200E	CONF. ROOM	CPT-2	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
201	CUST.	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
202	CARPENTRY CLASSROOM	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
203	CARPENTRY LAB	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6	
203A	TOOLS & SUPP.	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6	
203B	STORAGE	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6	
204	IDF2A	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
205	ELEC.	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
206	VENDING	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
207	EMR	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
208	MULTI-PURPOSE ROOM-MAIN LEVEL	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
208A	STOR.	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6	
208C	STORAGE	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6	
209	IDF2B	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
210	MECHANICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
210A	ELECTRICAL	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
210B	ELEC.	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
211	CUST.	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACT-1	
212	ELECTRICAL CLASSROOM	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
212A	STORAGE	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6	
213	ELECTRICAL LAB	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6	
213A	STORAGE	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
213B	TOOLS & SUPP.	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
214	MECHANICAL LAB	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
214A	STORAGE	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6	
214B	TOOLS & SUPP.	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6	
215	MECHANICAL CLASSROOM	EF-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
216	MEDIA CENTER/ FLEXIBLE SPACE	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
216A	STOR.	SC	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
C200	CORRIDOR	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPENPT-6	
C201	COMMON AREA	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-7/GYP-1	
C202	CORRIDOR	EF-2	RB-1	PT-1	PT-1	PT-1	PT-1	OPEN-PT-6	
EV-1	FREIGHT ELEV.	LVT-1							
EV-2/3	ELEV.	LVT-1	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL			
EV-4/5	ELEV.	LVT-1	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL	STAINLESS STEEL			
RR2A	RESTROOMS / LOCKERS	EF-1	RB-1	PT-2/CT-S	PT-2	PT-2	PT-2/CT-S	GYR-1/PT-3	
RR2B	RESTROOMS / LOCKERS	EF-1	RB-1	PT-2/CT-S	PT-2	PT-2	PT-2/CT-S	GYR-1/PT-3	
SA	STAIR A	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
SB	STAIR B	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
SC	STAIR C	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
SD	STAIR D	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	
SE	STAIR E	RF-1	RB-1	PT-1	PT-1	PT-1	PT-1	PT-1	

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FINISH LEGEND table with columns: NAME, MANUFACTURER, PRODUCT, COLLECTION, COLOR/PATTERN, COLOR NUMBER, SIZE, INSTALLATION, COMMENTS, FACEPLATE & DEVICE COLOR, LOCATION.



NEW FCPS COMBINED CTE SCHOOL BG# 22-167 100 Midland Ave. Lexington, KY 40508

REVISIONS table with columns: #, DATE, DESCRIPTION. Revision 4 dated 10/28/22.



PROJECT TEAM EOP Architects 201 W. Short Street, Suite 700 Lexington, KY 40507



Element Design, PLLC. 366 S. Broadway Lexington, KY 40508



Poage Engineers & Associates Inc Structural Engineers 880 Sparta Ct. Ste. 200 Lexington, KY 40504

SHROUT TATE WILSON MECHANICAL AND ELECTRICAL ENGINEERS ShROUT TATE Wilson Consulting Engineers MEP Engineers 628 Winchester Rd. Lexington, KY 40505



Reitano Design Group 302 N. East Street, Studio One Indianapolis, IN 46202



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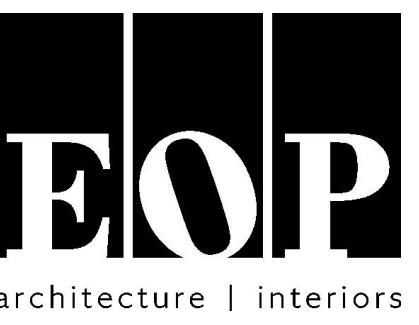
Job Number 2150 Drawn By Author Checked By Checker Date 09/28/2022 PLAN TRUE



FINISH LEGEND AND DETAILS

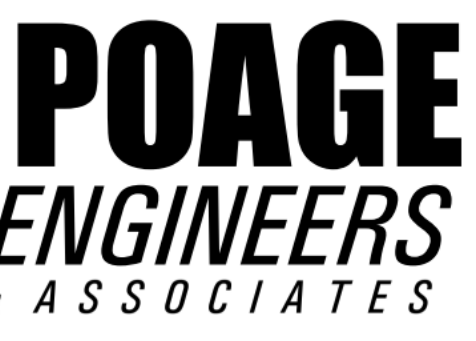
A805

REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
3	10/21/22 ADDENDUM 3
4	10/28/22 ADDENDUM 4

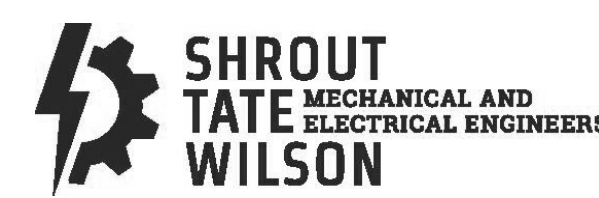


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880 Sparta Ct. Ste. 200
Lexington, KY 40504

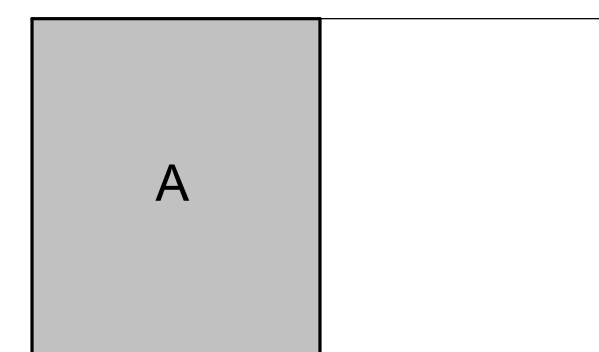


Shrout Tate Wilson Consulting Engineers
MEP Engineers
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Lexington, KY 40505



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366 S. Broadway
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KEYPLAN



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Drawn By JHS
Checked By RDB
Date 09/28/2022

PLAN TRUE



FIRST FLOOR PLAN A - LIGHTING

ADD #4
10/28/2022

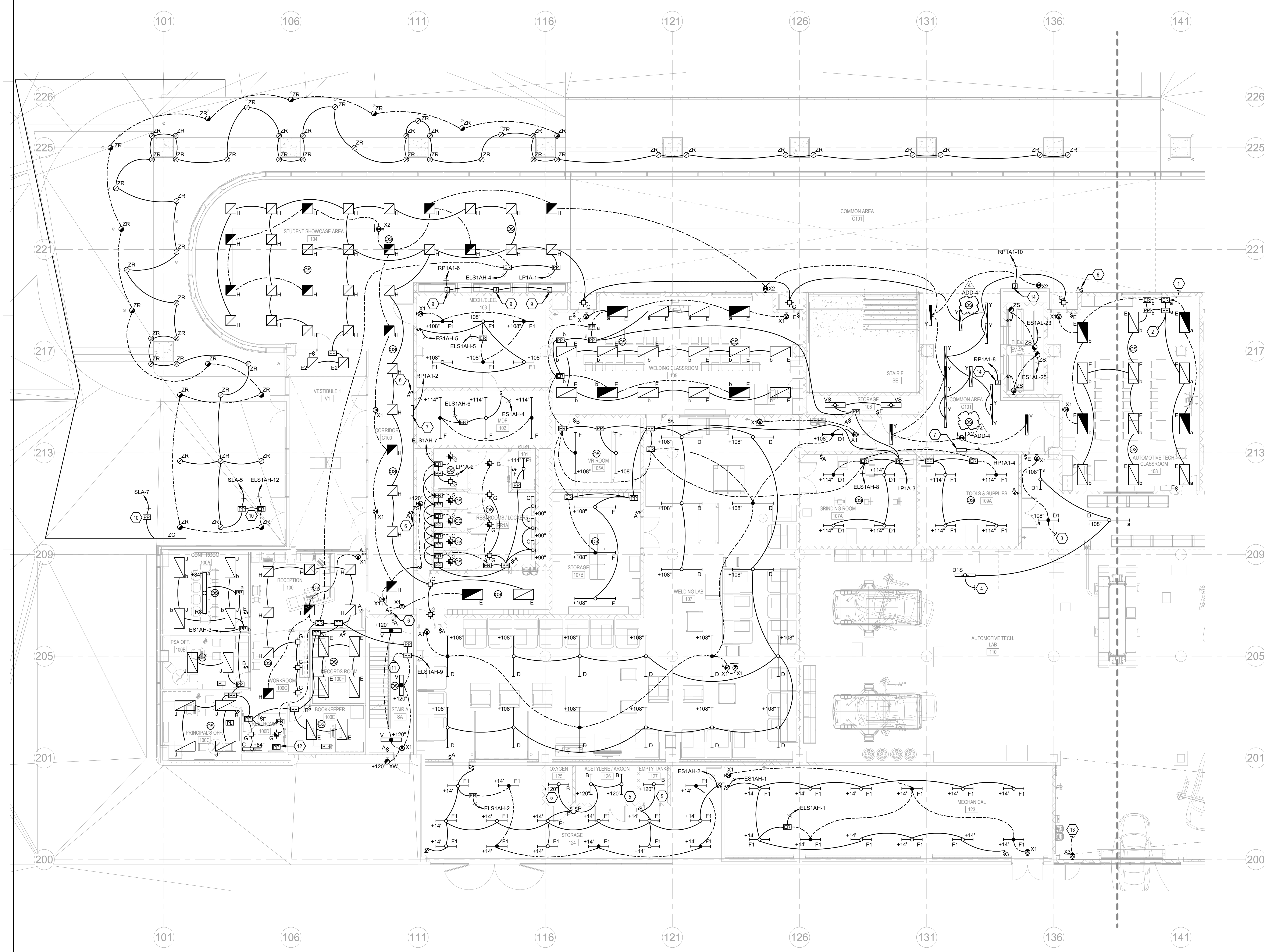
E101a

GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO POWER DRAWINGS FOR QUANTITIES OF PLUG LOAD CONTROLLER MODULES WHERE PLUG LOAD CONTROL MODULES ARE INDICATED ON THIS DRAWING.

SHEET KEYNOTES

- 1. CIRCUIT CONTINUES. REFER TO SHEET NOTE #1 ON SHEET E101b.
- 2. CIRCUIT CONTINUES. REFER TO SHEET NOTE #2 ON SHEET E101b.
- 3. CIRCUIT CONTINUES. REFER TO SHEET NOTE #3 ON SHEET E101b.
- 4. CIRCUIT CONTINUES. REFER TO SHEET NOTE #4 ON SHEET E101b.
- 5. PROVIDE CONDUIT SEALS FOR ALL CONDUITS ENTERING AND EXITING THIS ROOM.
- 6. SWITCH FOR CONTROL OF PLAN WEST CORRIDOR LIGHTING.
- 7. WAY-FINDING INTERNALLY ILLUMINATED (LED) SIGNAGE FURNISHED BY OTHERS. PROVIDE LOW VOLTAGE CONNECTION FROM DRIVER AS REQUIRED. PROVIDE SINGLE POLE SNAP DISCONNECT SWITCH. CIRCUIT AS SHOWN.
- 9. PROVIDE HARD WIRED CONNECTION FOR INTERNALLY ILLUMINATED DISPLAY CASES FURNISHED BY OTHERS. ROUTE CIRCUIT THROUGH DEDICATED DIMMING POWER PACK. DIMMING POWER PACK SHALL BE LOCATED AT NEAREST ACCESSIBLE CONCEALED CEILING. COORDINATE EXACT LOCATION OF HARD WIRED CONNECTION WITH ARCHITECT PRIOR TO INSTALLATION.
- 10. ROUTE CIRCUIT THROUGH EXTERIOR LTG CONTROL RELAYS. LOCATE RELAYS ADJACENT TO PANEL SLA. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
- 11. EMERGENCY CIRCUIT EXTENDS TO FIXTURES IN STAIR TOWER ABOVE.
- 12. PROVIDE 2#12, 1#2G, 3/4" CONDUIT TO EXHAUST FAN IN THIS ROOM. PROVIDE LIGHTING CONTROL CABLE FROM THIS POWER PACK TO LIGHTING CONTROL DEVICE IN THIS ROOM. REFER TO POWER PLAN FOR EXHAUST FAN LOCATIONS.
- 13. CONNECT TO EMERGENCY LIGHTING CIRCUIT IN THIS ROOM.
- 14. PROVIDE HARD WIRED CONNECTION FOR INTERNALLY ILLUMINATED LED SIGNAGE. ROUTE CIRCUIT THROUGH DEDICATED DIMMING POWER PACK. COORDINATE EXACT LOCATION OF LED SIGNAGE WITH ARCHITECT PRIOR TO INSTALLATION. DIMMING POWER PACK SHALL BE LOCATED AT NEAREST ACCESSIBLE CONCEALED CEILING.



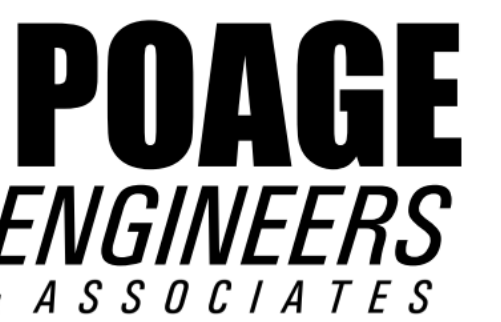
1 FIRST FLOOR PLAN A - LIGHTING
SCALE: 1/8" = 1'-0"

REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



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880 Sparta Ct. Ste. 200
Lexington, KY 40504

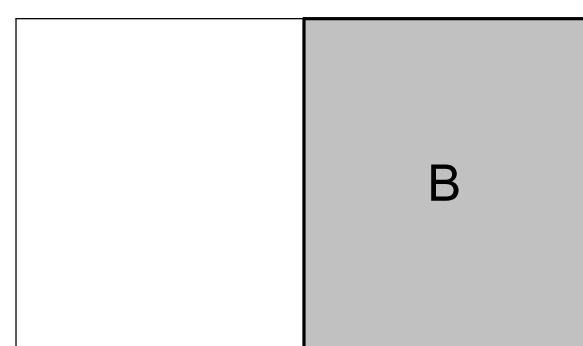


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MEP Engineers
628 Winchester Rd.
Lexington, KY 40505



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366 S. Broadway
Lexington, KY 40508

KEYPLAN

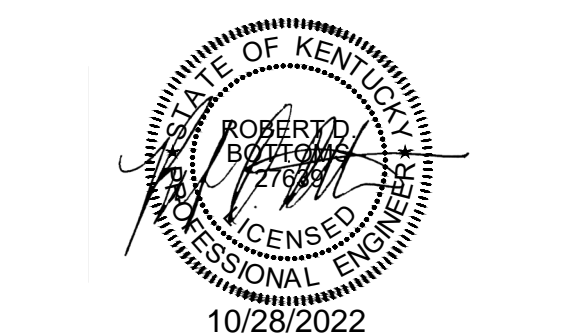


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Checked By RDB
Date 09/28/2022



FIRST FLOOR PLAN B - LIGHTING

ADD #4
10/28/2022

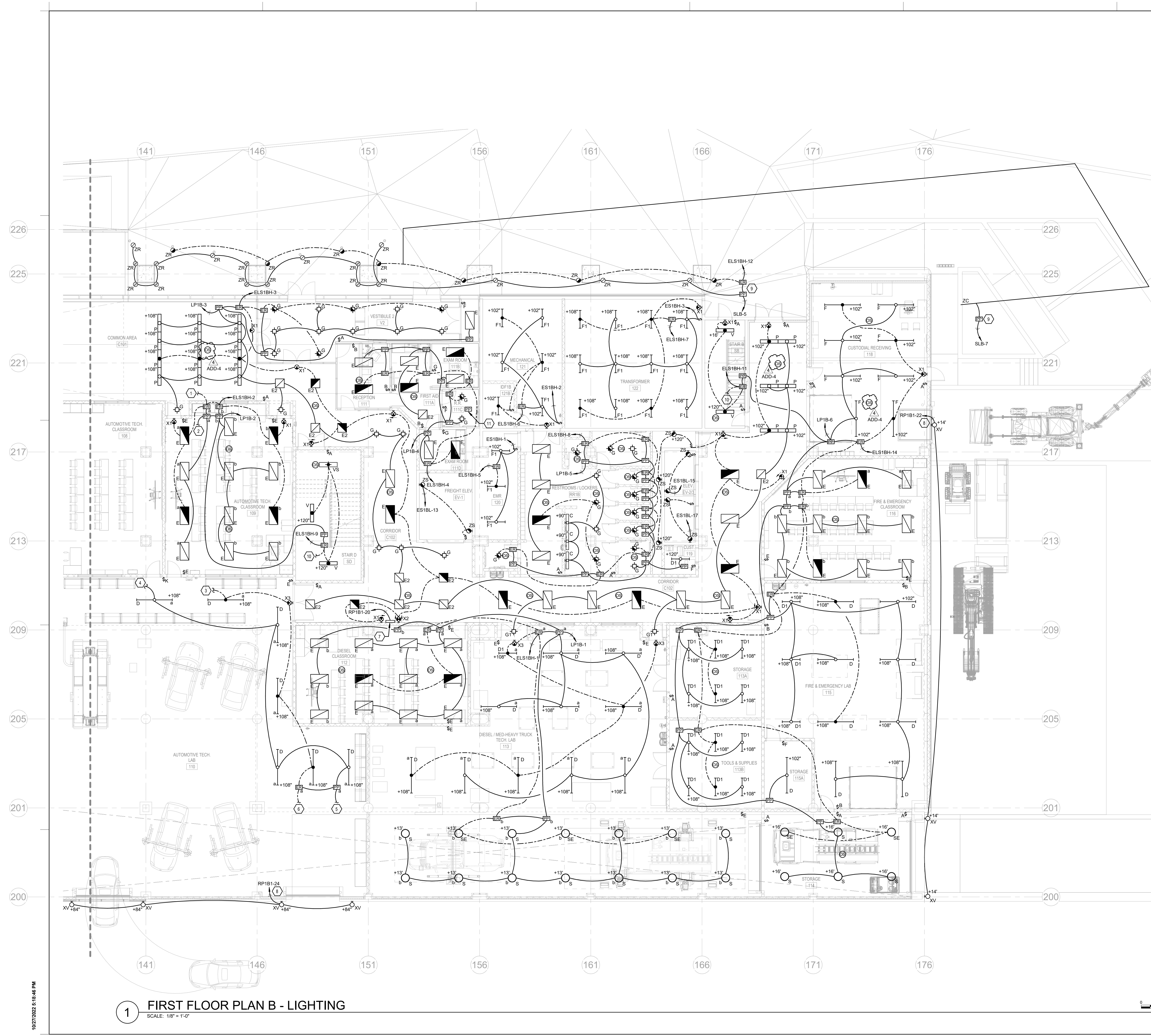
E101b

GENERAL NOTES

A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.

SHEET KEYNOTES

- CIRCUIT CONTINUES, REFER TO SHEET NOTE #1 ON SHEET E101a.
- CIRCUIT CONTINUES, REFER TO SHEET NOTE #2 ON SHEET E101a.
- CIRCUIT CONTINUES, REFER TO SHEET NOTE #3 ON SHEET E101a.
- CIRCUIT CONTINUES, REFER TO SHEET NOTE #4 ON SHEET E101a.
- CIRCUIT CONTINUES, REFER TO SHEET NOTE #4 ON SHEET E102a.
- CIRCUIT CONTINUES, REFER TO SHEET NOTE #5 ON SHEET E102a.
- WAY-FINDING INTERNALLY ILLUMINATED (LED) SIGNAGE FURNISHED BY OTHERS. PROVIDE LOW VOLTAGE CONNECTION FROM DRIVER AS REQUIRED. PROVIDE SINGLE POLE SNAP DISCONNECT SWITCH. CIRCUIT AS SHOWN.
- PROVIDE AUXILIARY CONTACT ON DISCONNECT SWITCH SERVING OVERHEAD DOOR AND ROUTE CIRCUIT THROUGH CONTACT FOR DISCONNECTING MEANS. PROVIDE LINE VOLTAGE DOOR POSITION SWITCH FOR CONTROL OF WARNING LIGHTS. LIGHTS SHALL BE CONTROLLED BY NEAREST OVERHEAD DOOR.
- ROUTE CIRCUIT THROUGH EXTERIOR LIGHTING CONTROL RELAYS. LOCATE RELAYS ADJACENT TO PANEL SLB. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
- EMERGENCY CIRCUIT EXTENDS TO FIXTURES IN STAIR TOWER ABOVE.
- PROVIDE #12, 192G, 3/4" CONDUIT TO EXHAUST FAN IN THIS ROOM. PROVIDE LIGHTING CONTROL CABLE FROM THIS POWER PACK TO LIGHTING CONTROL DEVICE IN THIS ROOM. REFER TO POWER PLAN FOR EXHAUST FAN LOCATIONS.

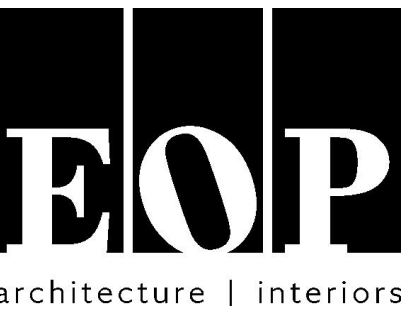


1 FIRST FLOOR PLAN B - LIGHTING
SCALE: 1/8" = 1'-0"



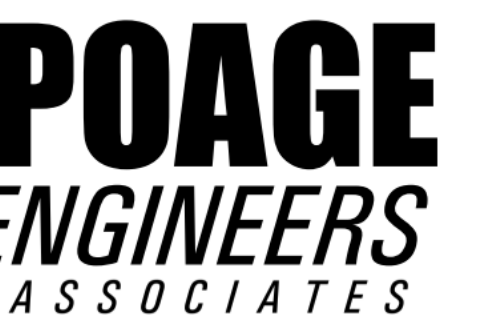
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REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



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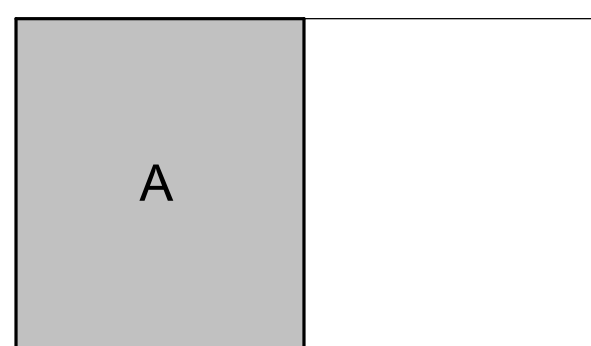


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KEYPLAN

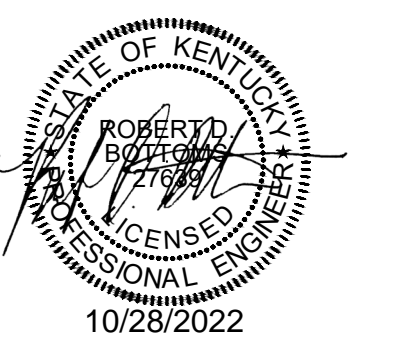
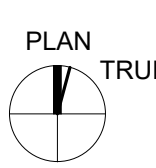


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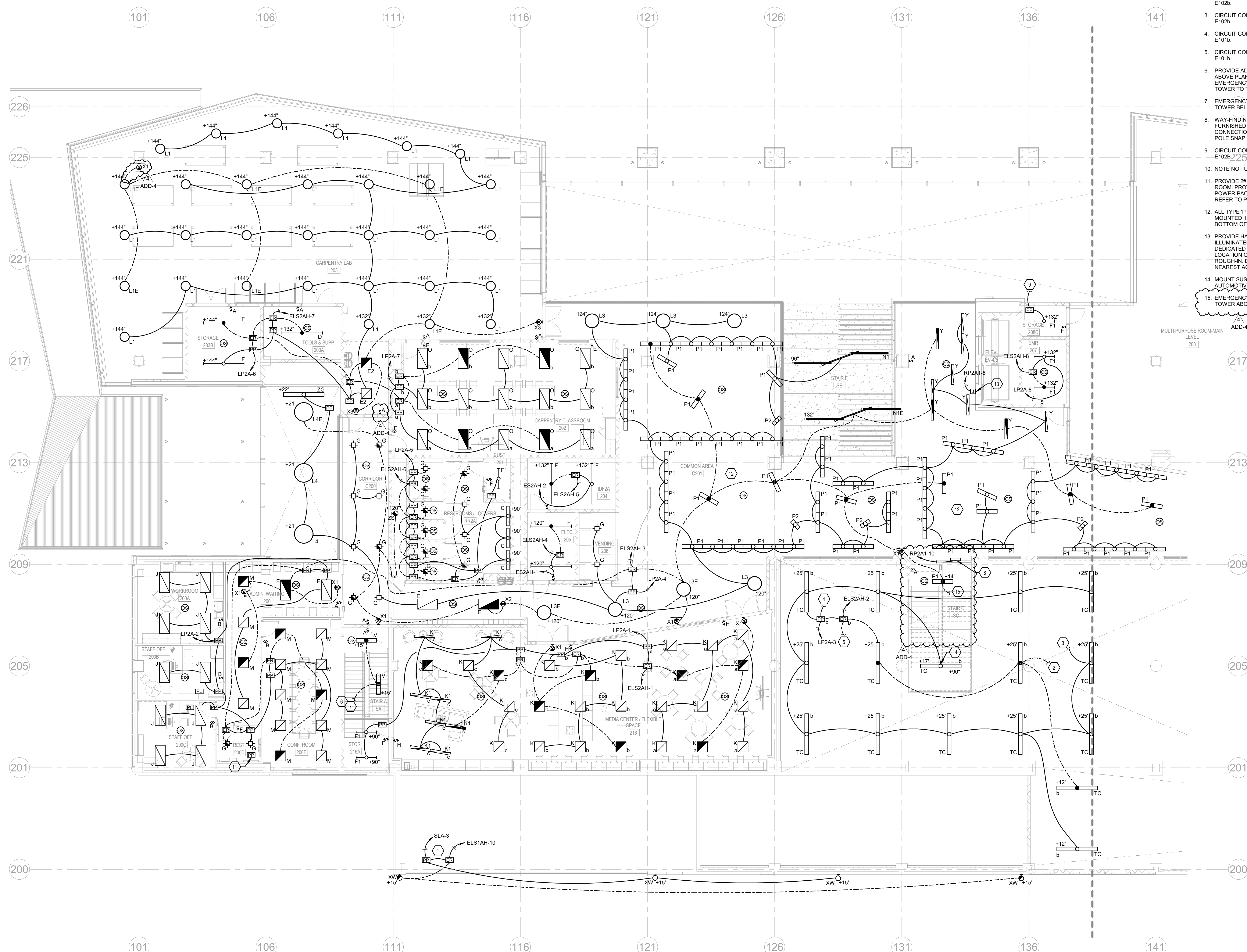
**SECOND FLOOR PLAN
A - LIGHTING**

ADD #4
10/28/2022

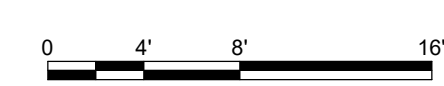
E102a

GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
 - B. REFER TO POWER DRAWINGS FOR QUANTITIES OF PLUG LOAD CONTROLLER MODULES WHERE PLUG LOAD CONTROL MODULES ARE INDICATED ON THIS DRAWING.
- SHEET KEYNOTES**
1. ROUTE CIRCUIT THROUGH EXTERIOR LTG CONTROL RELAYS. LOCATE RELAYS ADJACENT TO PANEL SLA. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
 2. CIRCUIT CONTINUES. REFER TO SHEET NOTE #1 ON SHEET E102b.
 3. CIRCUIT CONTINUES. REFER TO SHEET NOTE #2 ON SHEET E102b.
 4. CIRCUIT CONTINUES. REFER TO SHEET NOTE #5 ON SHEET E101b.
 5. CIRCUIT CONTINUES. REFER TO SHEET NOTE #6 ON SHEET E101b.
 6. PROVIDE ADDITIONAL TYPE 'S' FIXTURE SURFACE MOUNTED ABOVE PLAN SOUTH LANDING AT THIS LEVEL. EXTEND EMERGENCY CIRCUIT SERVING OTHER FIXTURES IN STAIR TOWER TO THIS FIXTURE.
 7. EMERGENCY CIRCUIT EXTENDS TO FIXTURES IN STAIR TOWER BELOW.
 8. WAY-FINDING INTERNALLY ILLUMINATED (LED) SIGNAGE FURNISHED BY OTHERS. PROVIDE LOW VOLTAGE CONNECTION FROM DRIVER AS REQUIRED. PROVIDE SINGLE POLE SNAP DISCONNECT SWITCH. CIRCUIT AS SHOWN.
 9. CIRCUIT CONTINUES. REFER TO SHEET NOTE #6 ON SHEET E102b.
 10. NOTE NOT USED.
 11. PROVIDE 2#12, 1#2G, 3/4" CONDUIT TO EXHAUST FAN IN THIS ROOM. PROVIDE LIGHTING CONTROL CABLE FROM THIS ROOM TO LIGHTING CONTROL DEVICE IN THIS ROOM. REFER TO POWER PLAN FOR EXHAUST FAN LOCATIONS.
 12. ALL TYPE 'P1' AND 'P2' FIXTURES IN THIS SPACE ARE TO BE MOUNTED 12" BELOW BOTTOM OF CEILING FEATURE TO BOTTOM OF FIXTURE.
 13. PROVIDE HARD WIRED CONNECTION FOR INTERNALLY ILLUMINATED LED SIGNAGE. ROUTE CIRCUIT THROUGH DEDICATED DIMMING POWER PACK. COORDINATE EXACT LOCATION OF LED SIGNAGE WITH ARCHITECT PRIOR TO ROUGH-IN. DIMMING POWER PACK SHALL BE LOCATED AT NEAREST ACCESSIBLE CONCEALED CEILING.
 14. MOUNT SUSPENDED FIXTURE UNDER BOTTOM OF STAIR IN AUTOMOTIVE TECH. LAB 110.
 15. EMERGENCY CIRCUIT EXTENDS TO FIXTURES IN STAIR TOWER ABOVE.



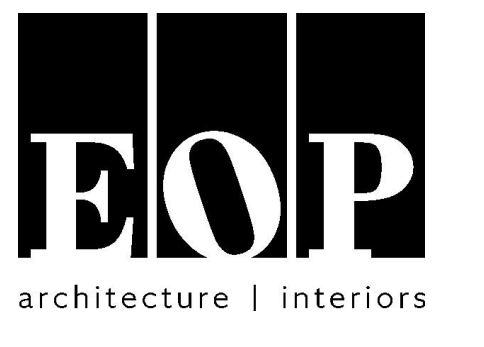
1 SECOND FLOOR PLAN A - LIGHTING
SCALE: 1/8" = 1'-0"



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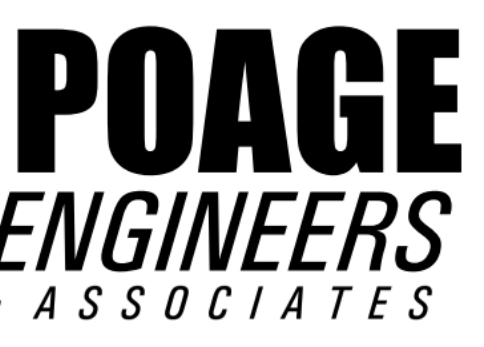
BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4

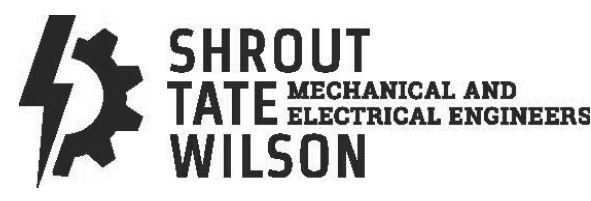


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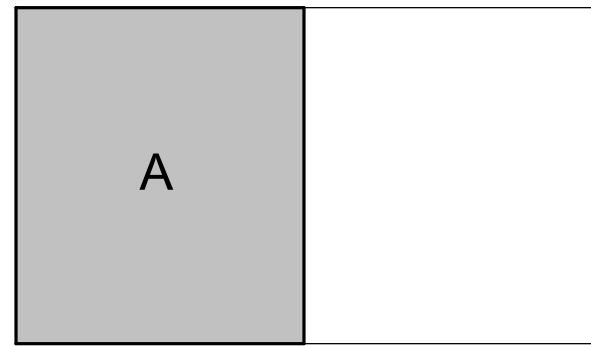


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KEYPLAN

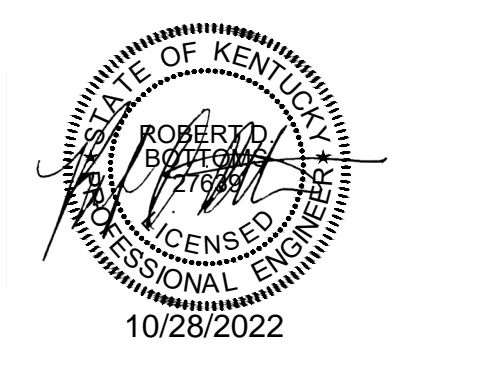
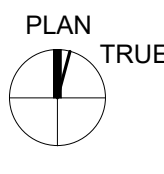


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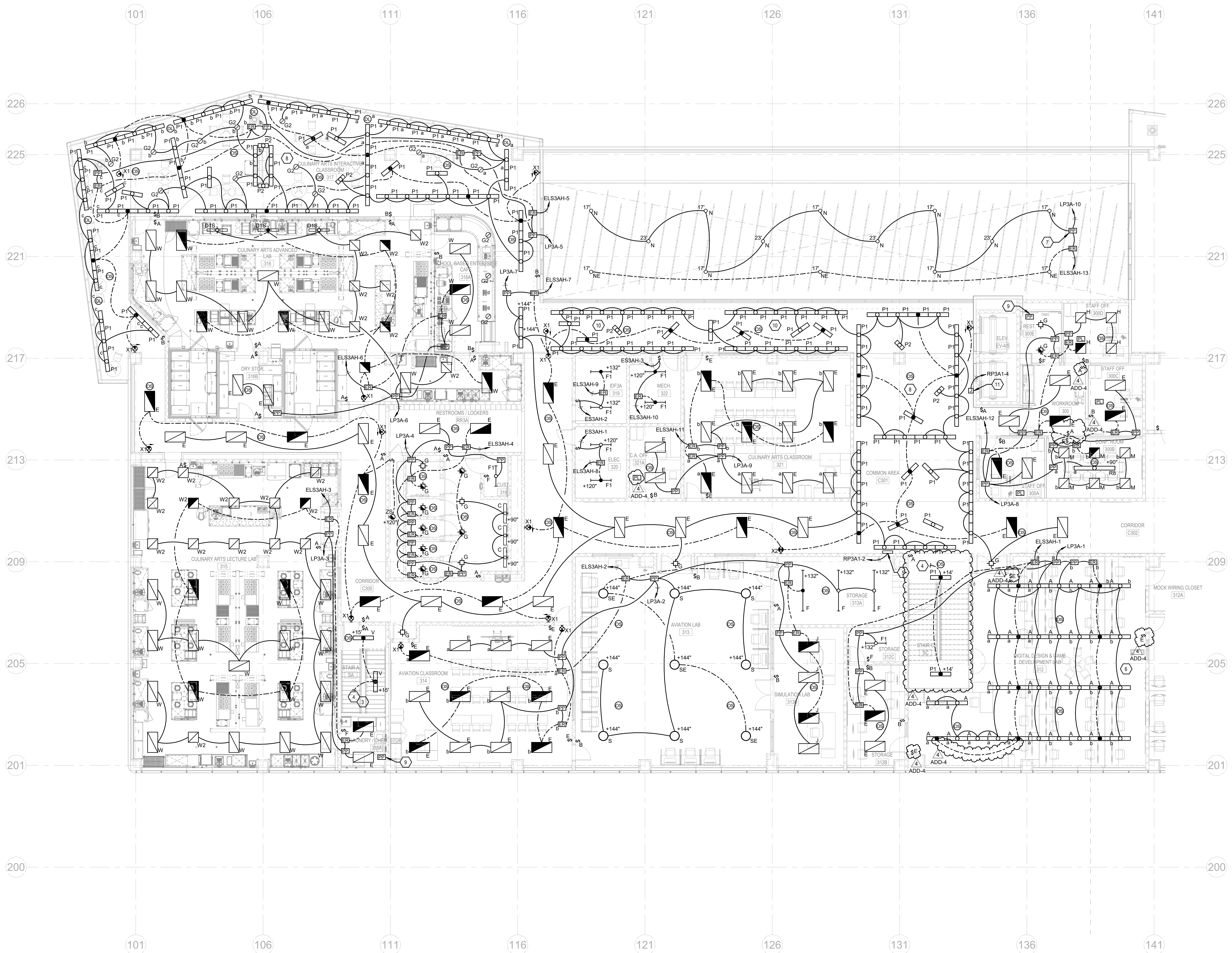


THIRD FLOOR PLAN A - LIGHTING

ADD #4
10/28/2022
E103a

GENERAL NOTES

- REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
 - REFER TO POWER DRAWINGS FOR QUANTITIES OF PLUG LOAD CONTROLLER MODULES WHERE PLUG LOAD CONTROL MODULES ARE INDICATED ON THIS DRAWING.
- SHEET KEYNOTES**
- NOTE NOT USED.
 - NOTE NOT USED.
 - PROVIDE ADDITIONAL TYPE 'YS' FIXTURE SURFACE MOUNTED ABOVE PLAN SOUTH LANDING AT THIS LEVEL. EXTEND EMERGENCY CIRCUIT SERVING OTHER FIXTURES IN STAIR TOWER TO THIS FIXTURE.
 - EMERGENCY CIRCUIT EXTENDS TO FIXTURES IN STAIR TOWER BELOW.
 - WAY-FINDING INTERNALLY ILLUMINATED (LED) SIGNAGE FURNISHED BY OTHERS. PROVIDE LOW VOLTAGE CONNECTION FROM DRIVER AS REQUIRED. PROVIDE SINGLE POLE SNAP DISCONNECT SWITCH. CIRCUIT AS SHOWN.
 - ALL TYPE 'A' FIXTURES IN THIS ROOM TO BE MOUNTED 144" AFF.
 - PROVIDE CONTROLLER FOR ALL COLOR CHANGING FIXTURES. ACUITY FRESKO EASYL PRO DMX CONTROLLER OR EQUAL. COORDINATE EXACT LOCATION OF SWITCH WITH OWNER PRIOR TO INSTALLATION.
 - ALL TYPE 'P1' AND 'P2' FIXTURES IN THIS SPACE ARE TO BE MOUNTED 12" BELOW BOTTOM OF CEILING FEATURE TO BOTTOM OF FIXTURE.
 - PROVIDE #12, 1/2G, 3/4" CONDUIT TO EXHAUST FAN IN THIS ROOM. PROVIDE LIGHTING CONTROL CABLE FROM THIS POWER PACK TO LIGHTING CONTROL DEVICE IN THIS ROOM. REFER TO POWER PLAN FOR EXHAUST FAN LOCATIONS.
 - ALL TYPE 'P1' AND 'P2' FIXTURES IN THIS SPACE ARE TO BE MOUNTED 6" BELOW BOTTOM OF CEILING FEATURE TO BOTTOM OF FIXTURE.
 - PROVIDE HARD WIRED CONNECTION FOR INTERNALLY ILLUMINATED LED SIGNAGE. ROUTE CIRCUIT THROUGH DEDICATED DIMMING POWER PACK. COORDINATE EXACT LOCATION OF LED SIGNAGE WITH ARCHITECT PRIOR TO ROUGH-IN. DIMMING POWER PACK SHALL BE LOCATED AT NEAREST ACCESSIBLE CONCEALED CEILING.

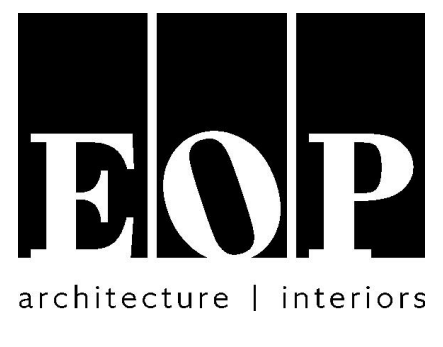


1 THIRD FLOOR PLAN A - LIGHTING
SCALE: 1/8" = 1'-0"



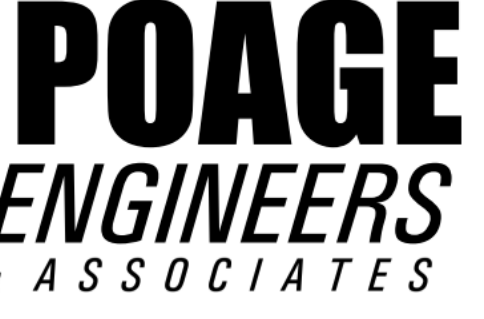
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REVISIONS		
#	DATE	DESCRIPTION
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3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4

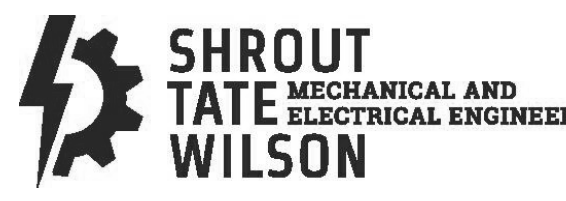


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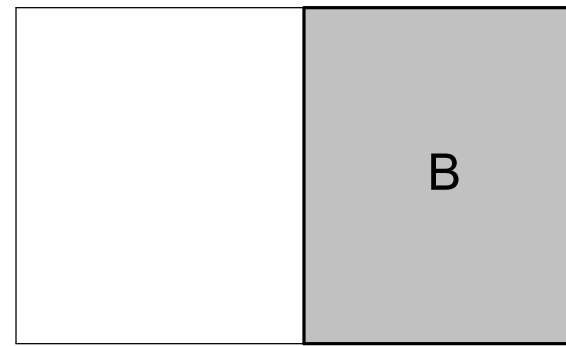


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KEYPLAN

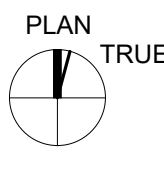


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Checked By RDB
Date 09/28/2022



THIRD FLOOR PLAN B - LIGHTING

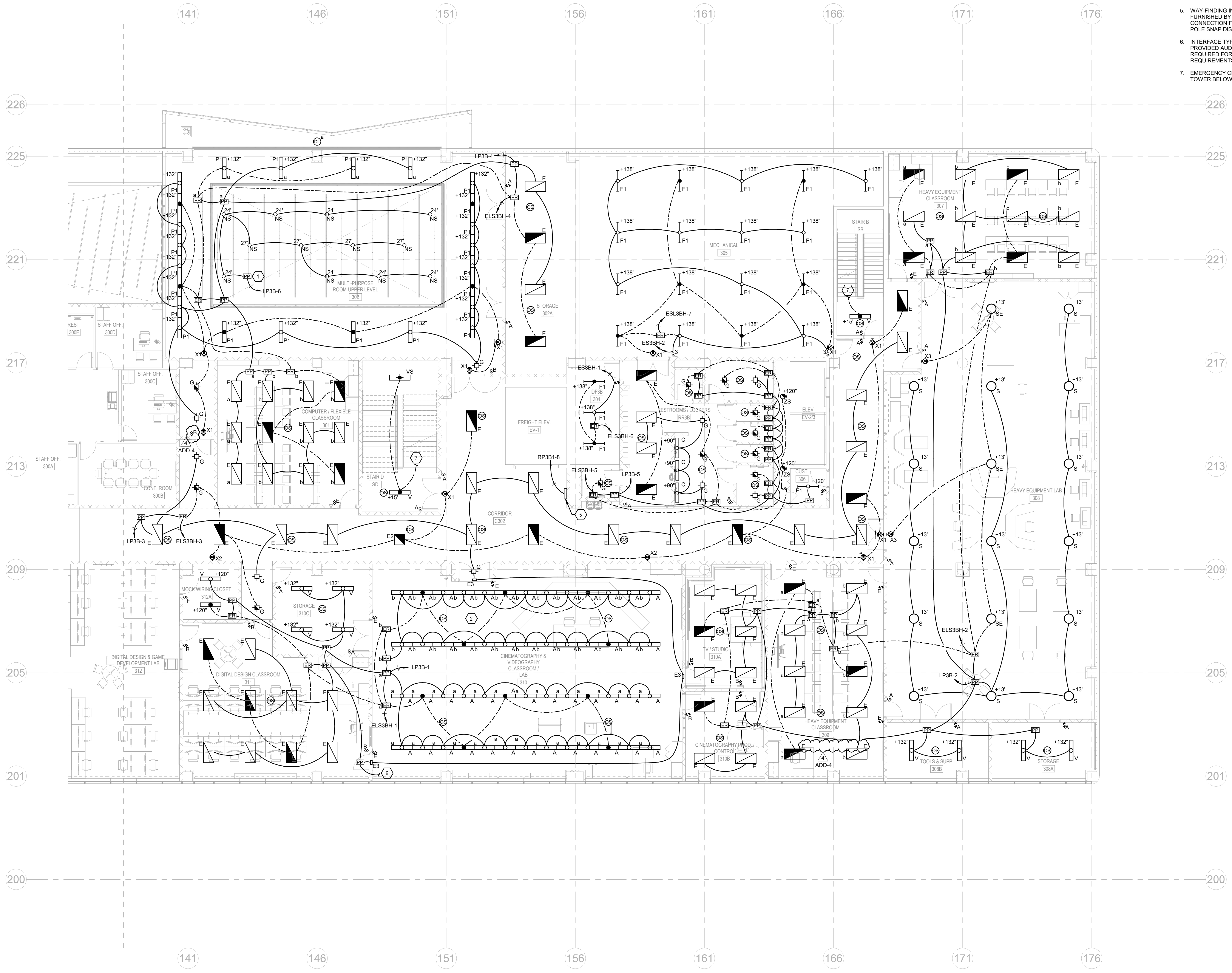
ADD #4
10/28/2022
E103b

GENERAL NOTES

A. REFER TO DRAWING E002 FOR ELECTRICAL GENERAL NOTES.

SHEET KEYNOTES

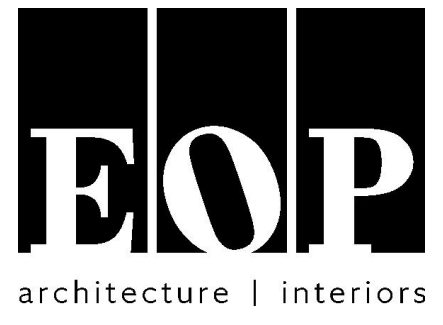
- ALL TYPE 'N' FIXTURES TO BE CONNECTED TO COLOR CHANGING CONTROLLER. REFER TO SHEET NOTE #7 ON SHEET E103a FOR ADDITIONAL INFORMATION.
- ALL TYPE 'A' FIXTURES IN THIS ROOM TO BE MOUNTED 144" AFF.
- NOTE NOT USED.
- NOTE NOT USED.
- WAY-FINDING INTERNALLY ILLUMINATED (LED) SIGNAGE FURNISHED BY OTHERS. PROVIDE LOW VOLTAGE CONNECTION FROM DRIVER AS REQUIRED. PROVIDE SINGLE POLE SNAP DISCONNECT SWITCH. CIRCUIT AS SHOWN.
- INTERFACE TYPE 'E3' LIGHT FIXTURE CONTROLS TO OWNER PROVIDED AUDIOVISUAL BROADCAST EQUIPMENT AS REQUIRED FOR OPERATION. FIELD COORDINATE EXACT REQUIREMENTS WITH OWNER.
- EMERGENCY CIRCUIT EXTENDS TO FIXTURES IN STAIR TOWER BELOW.



1 THIRD FLOOR PLAN B - LIGHTING
SCALE: 1/8" = 1'-0"

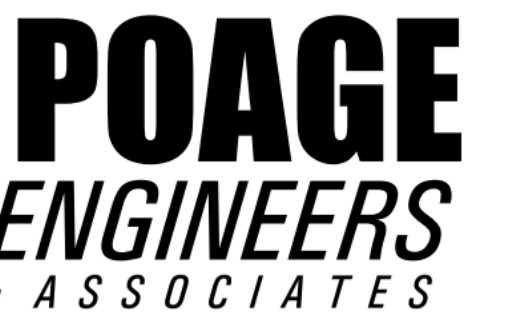


REVISIONS		
#	DATE	DESCRIPTION
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3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4

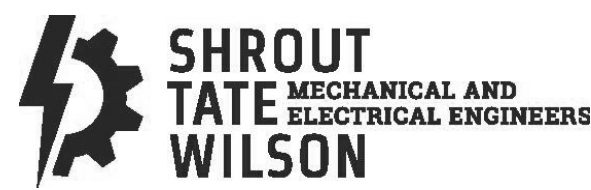


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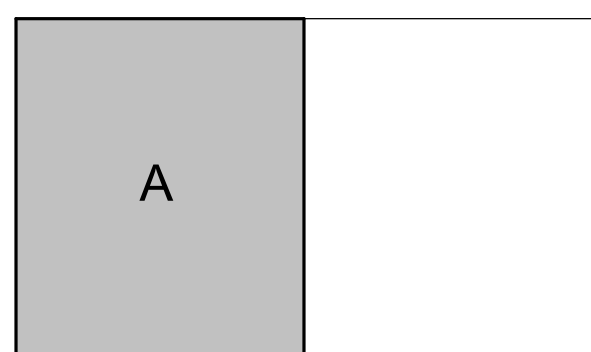


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KEYPLAN

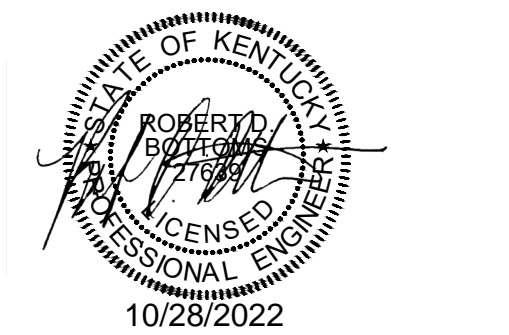
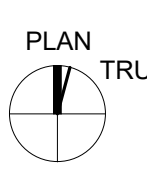


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**FOURTH FLOOR PLAN
A - LIGHTING**

ADD #4
10/28/2022

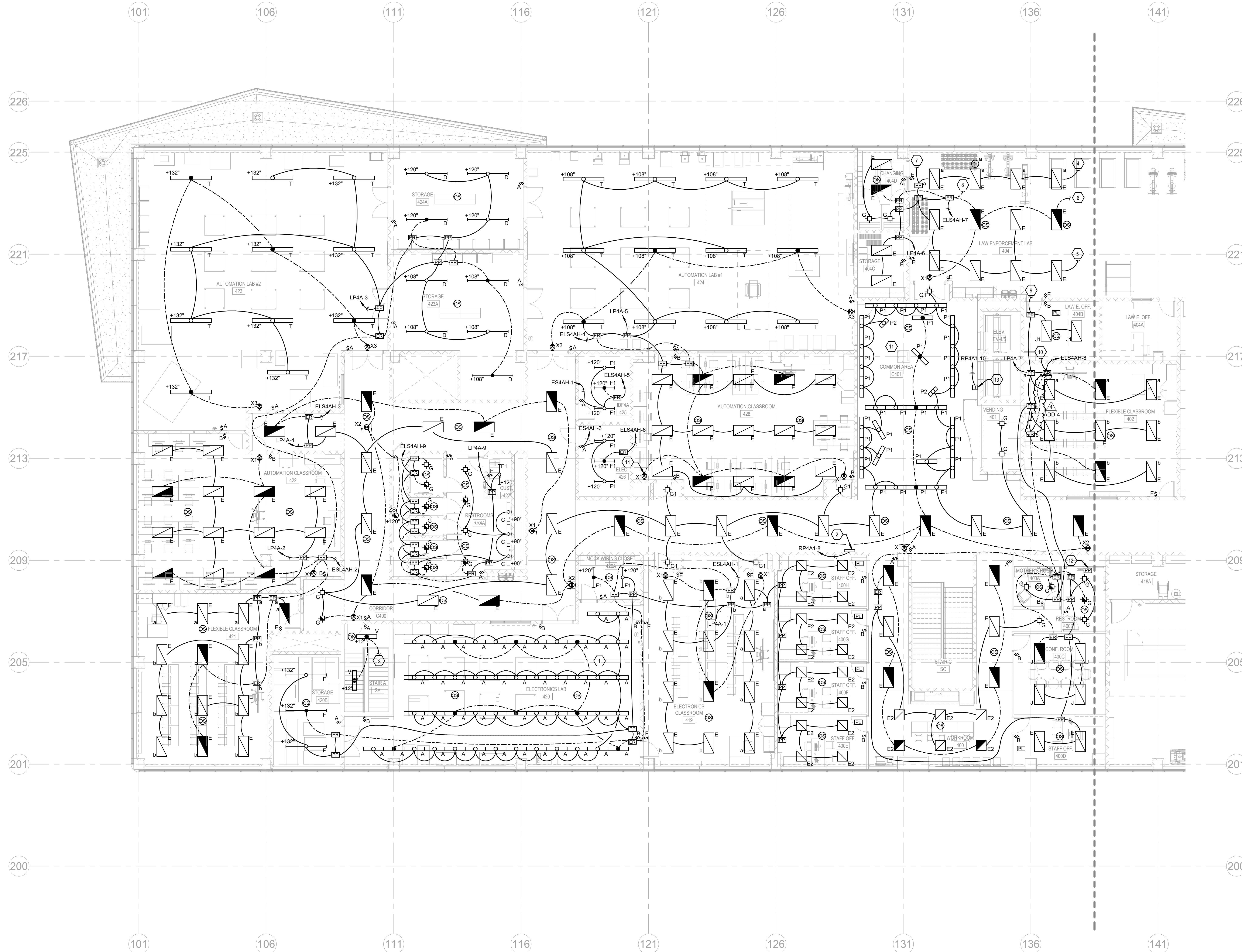
E104a

GENERAL NOTES

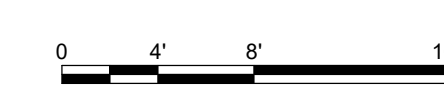
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO POWER DRAWINGS FOR QUANTITIES OF PLUG LOAD CONTROLLER MODULES WHERE PLUG LOAD CONTROL MODULES ARE INDICATED ON THIS DRAWING.

SHEET KEYNOTES

1. ALL TYPE 'A' FIXTURES IN THIS ROOM TO BE MOUNTED 126" AFF.
2. WAY-FINDING INTERNALLY ILLUMINATED (LED) SIGNAGE FURNISHED BY OTHERS. PROVIDE LOW VOLTAGE CONNECTION FROM DRIVER AS REQUIRED. PROVIDE SINGLE POLE SNAP DISCONNECT SWITCH. CIRCUIT AS SHOWN.
3. EMERGENCY CIRCUIT EXTENDS TO FIXTURES IN STAIR TOWER BELOW.
4. CIRCUIT CONTINUES. REFER TO SHEET NOTE #3 ON SHEET 104b.
5. CIRCUIT CONTINUES. REFER TO SHEET NOTE #4 ON SHEET 104b.
6. CIRCUIT CONTINUES. REFER TO SHEET NOTE #5 ON SHEET 104b.
7. CIRCUIT CONTINUES. REFER TO SHEET NOTE #6 ON SHEET 104b.
8. CIRCUIT CONTINUES. REFER TO SHEET NOTE #7 ON SHEET 104b.
9. CIRCUIT CONTINUES. REFER TO SHEET NOTE #8 ON SHEET 104b.
10. CIRCUIT CONTINUES. REFER TO SHEET NOTE #9 ON SHEET 104b.
11. ALL TYPE 'P1' AND 'P2' FIXTURES IN THIS AREA ARE TO BE MOUNTING 6" BELOW BOTTOM OF CEILING FEATURE TO BOTTOM OF FIXTURE.
12. PROVIDE #12, #16, #20, #25, #34 CONDUIT TO EXHAUST FAN IN THIS ROOM. PROVIDE LIGHTING CONTROL CABLE FROM THIS ROOM. POWER PACK TO LIGHTING CONTROL DEVICE IN THIS ROOM. REFER TO POWER PLAN FOR EXHAUST FAN LOCATIONS.
13. PROVIDE HARD WIRED CONNECTION FOR INTERNALLY ILLUMINATED LED SIGNAGE. ROUTE CIRCUIT THROUGH DEDICATED DIMMING POWER PACK. COORDINATE EXACT LOCATION OF LED SIGNAGE WITH ARCHITECT PRIOR TO ROUGH-IN. DIMMING POWER PACK SHALL BE LOCATED AT NEAREST ACCESSIBLE CONCEALED CEILING.
14. MOUNT EXIT SIGN CENTERED ABOVE ADJACENT DOOR.



1 FOURTH FLOOR PLAN A - LIGHTING
SCALE: 1/8" = 1'-0"

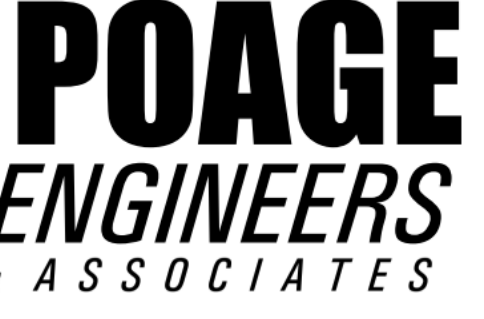


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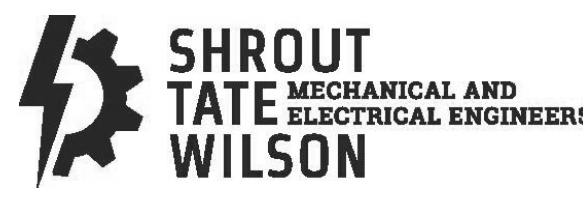
REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



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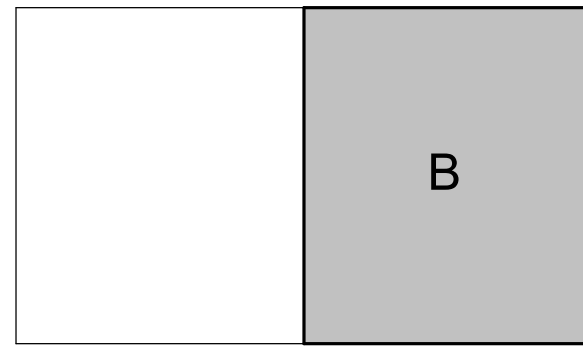


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KEYPLAN

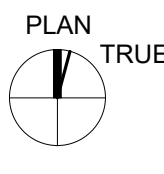


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Date 09/28/2022



**FOURTH FLOOR PLAN
B - LIGHTING**

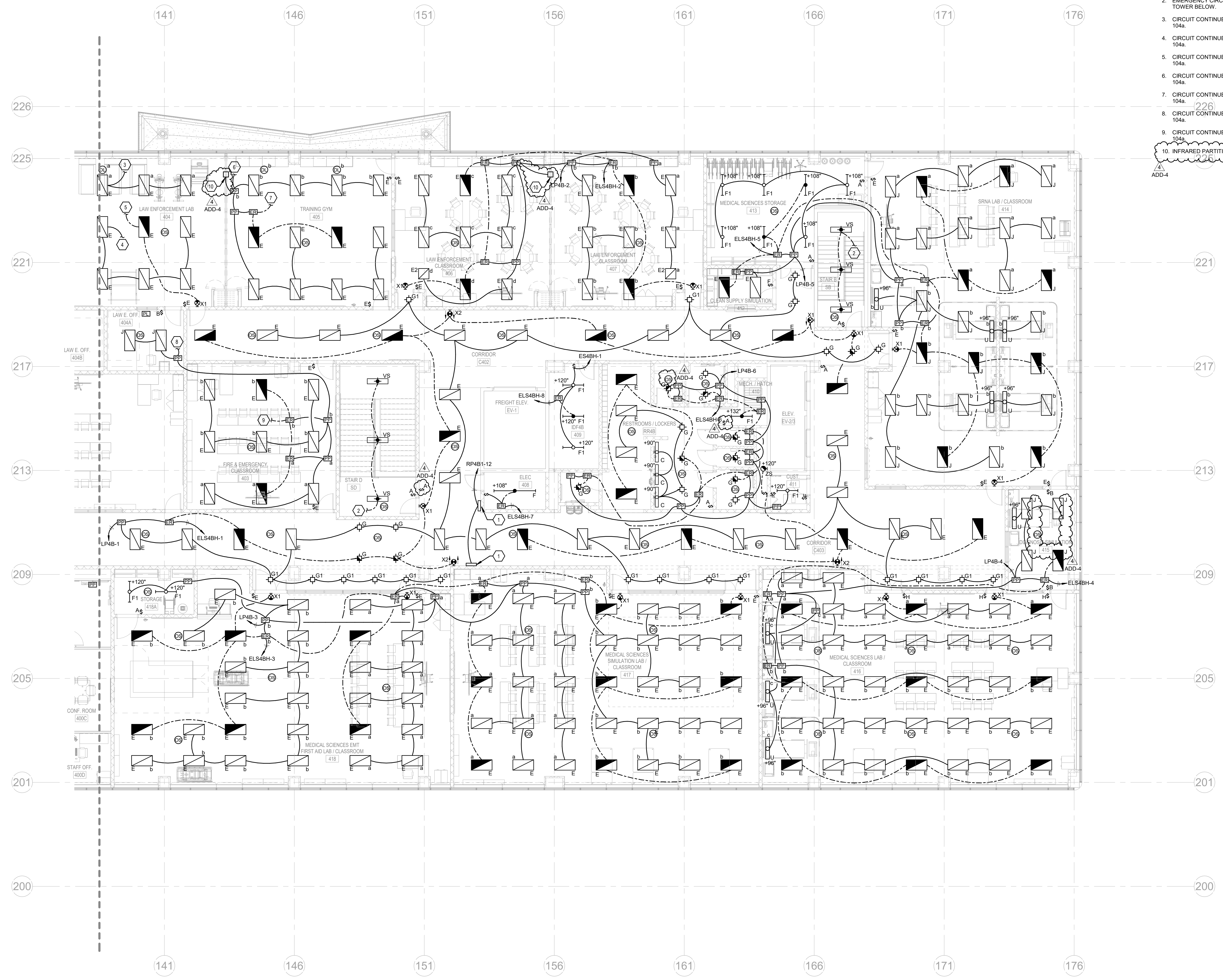
ADD #4
10/28/2022
E104b

GENERAL NOTES

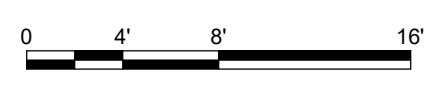
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO POWER DRAWINGS FOR QUANTITIES OF PLUG LOAD CONTROLLER MODULES WHERE PLUG LOAD CONTROL MODULES ARE INDICATED ON THIS DRAWING.

SHEET KEYNOTES

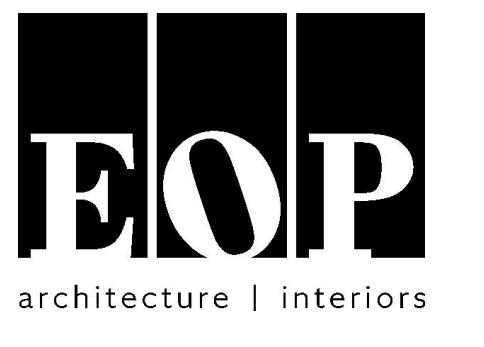
- 1. WAY-FINDING INTERNALLY ILLUMINATED (LED) SIGNAGE FURNISHED BY OTHERS. PROVIDE LOW VOLTAGE CONNECTION FROM DRIVER AS REQUIRED. PROVIDE SINGLE POLE SNAP DISCONNECT SWITCH. CIRCUIT AS SHOWN.
- 2. EMERGENCY CIRCUIT EXTENDS TO FIXTURES IN STAIR TOWER BELOW.
- 3. CIRCUIT CONTINUES. REFER TO SHEET NOTE #4 ON SHEET 104a
- 4. CIRCUIT CONTINUES. REFER TO SHEET NOTE #5 ON SHEET 104a
- 5. CIRCUIT CONTINUES. REFER TO SHEET NOTE #6 ON SHEET 104a
- 6. CIRCUIT CONTINUES. REFER TO SHEET NOTE #7 ON SHEET 104a
- 7. CIRCUIT CONTINUES. REFER TO SHEET NOTE #8 ON SHEET 104a
- 8. CIRCUIT CONTINUES. REFER TO SHEET NOTE #9 ON SHEET 104a
- 9. CIRCUIT CONTINUES. REFER TO SHEET NOTE #10 ON SHEET 104a
- 10. INFRARED PARTITION SWITCH KIT.



1 FOURTH FLOOR PLAN B - LIGHTING
SCALE: 1/8" = 1'-0"



REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
2	10/17/22 ADDENDUM 2
3	10/21/22 ADDENDUM 3
4	10/28/22 ADDENDUM 4

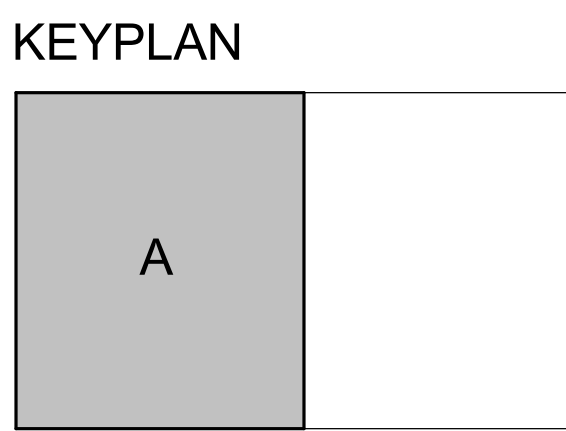


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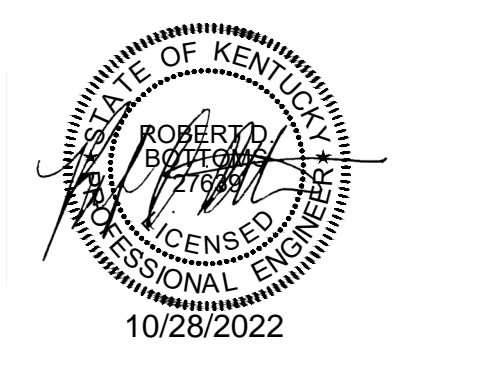
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WILSON**
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MEP Engineers
628 Winchester Rd.
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**element
design**
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Lexington, KY 40508



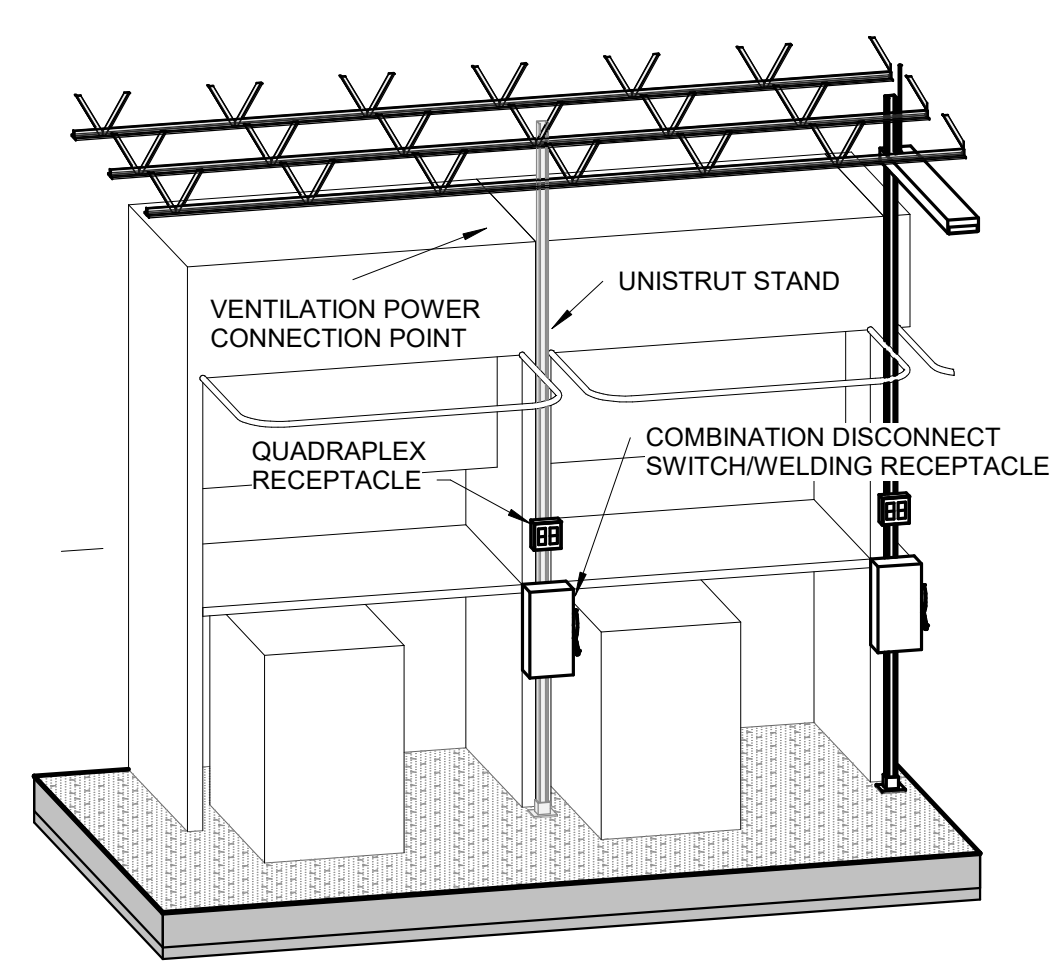
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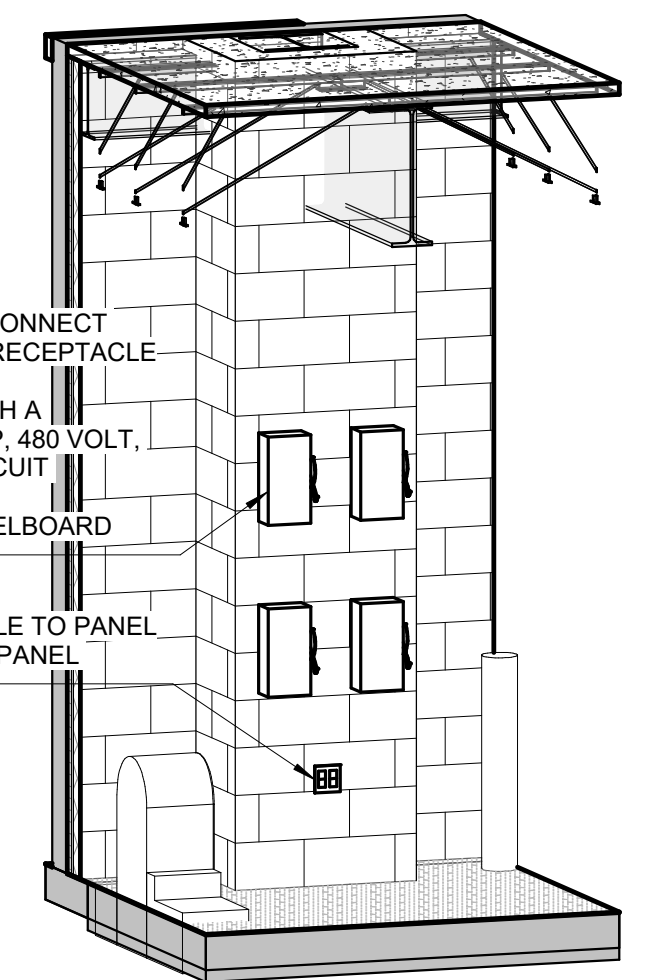


**FIRST FLOOR PLAN A -
POWER**

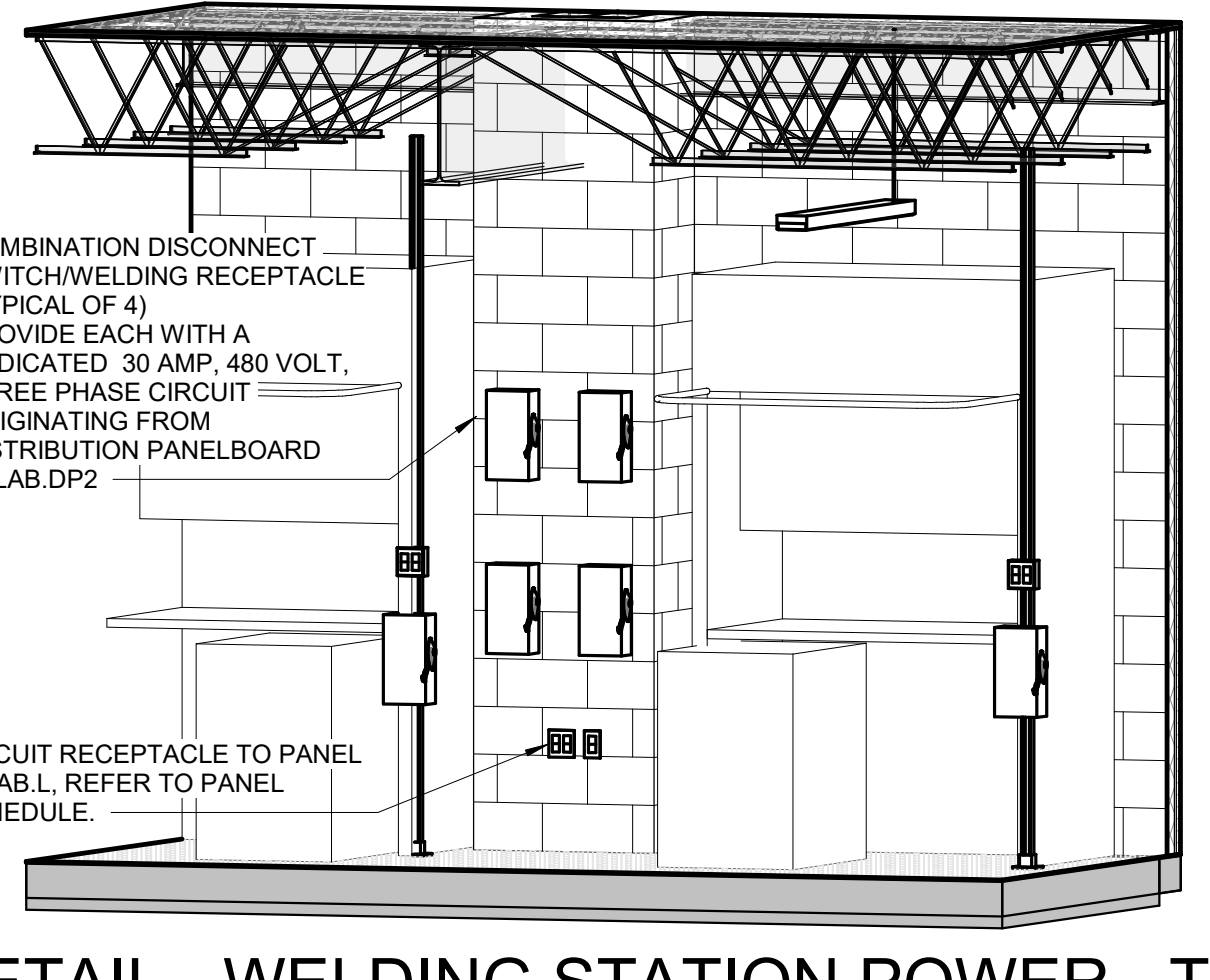
ADD # 10/28/2022
E201a



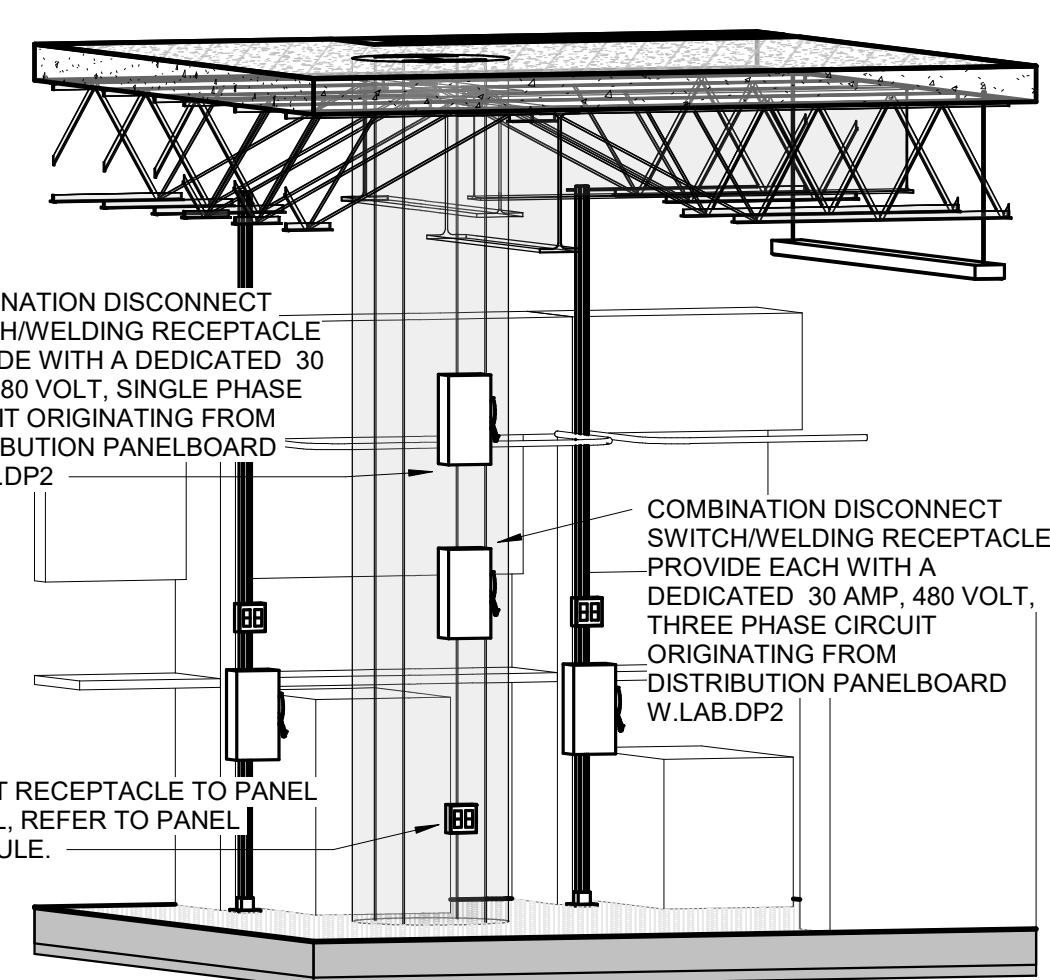
2 DETAIL - WELDING STATION POWER - BOOTH (TYPICAL)
SCALE: 1/8" = 1'-0"



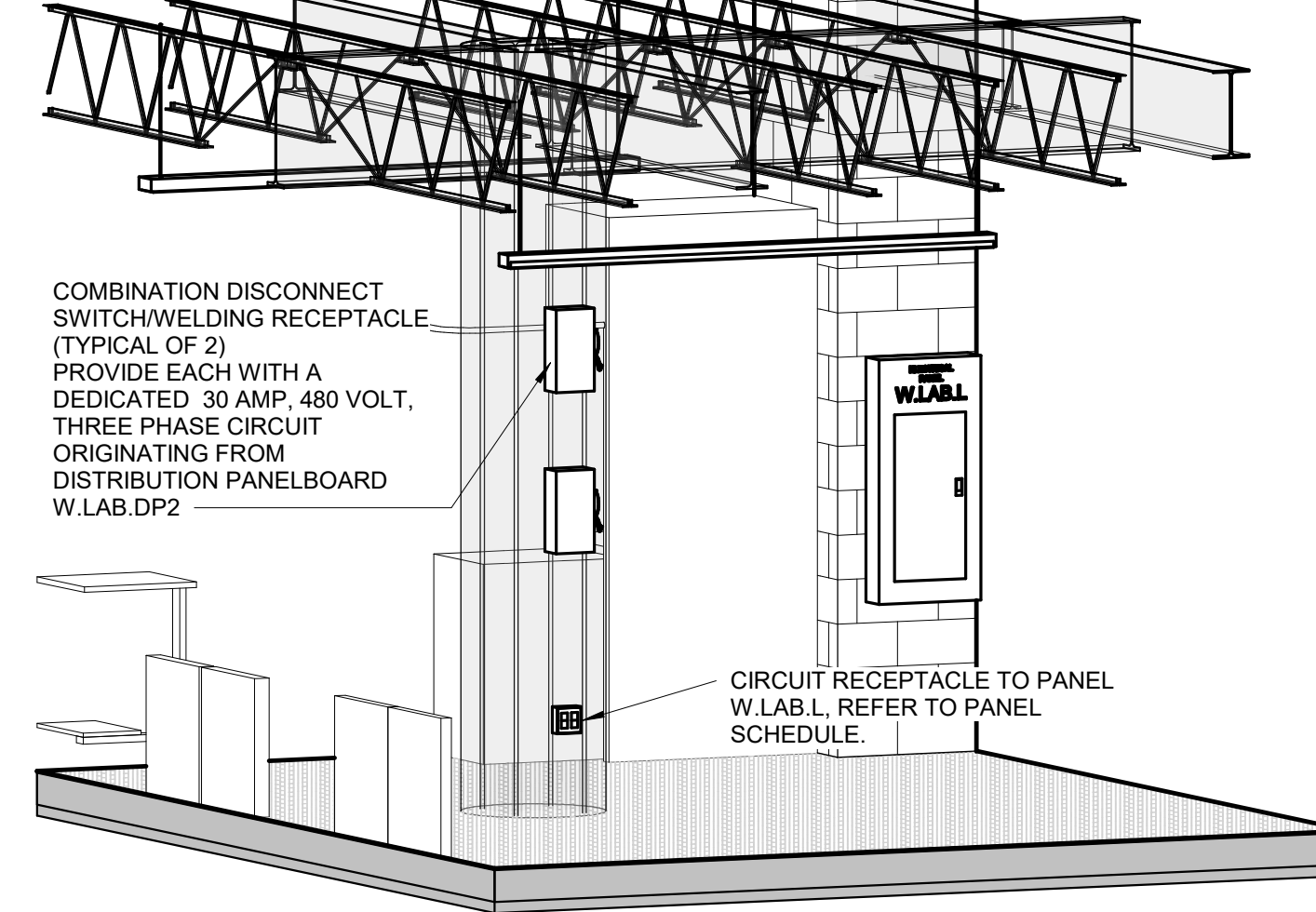
3 DETAIL - WELDING STATION POWER - TABLES COLUMN 116-201
SCALE: 1/8" = 1'-0"



4 DETAIL - WELDING STATION POWER - TABLES COLUMN LINE 121-201
SCALE: 1/8" = 1'-0"



5 DETAIL - WELDING STATION POWER - TABLES COLUMN 116-205
SCALE: 1/8" = 1'-0"



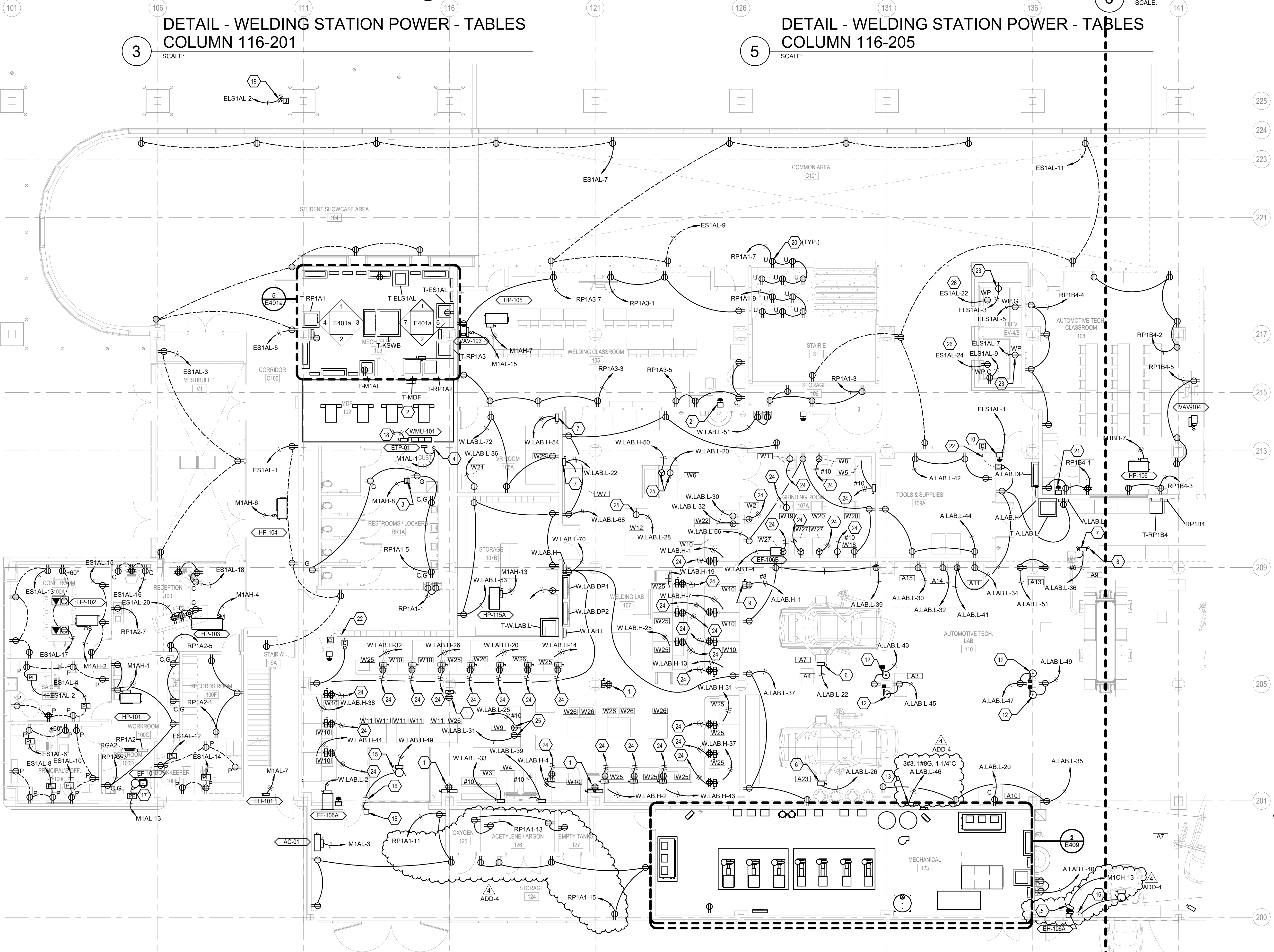
6 DETAIL - WELDING STATION POWER - TABLES COLUMN 121-205
SCALE: 1/8" = 1'-0"

GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTIONS OF SPECIALTY EQUIPMENTS. WHERE SPECIALTY EQUIPMENT IS TAGGED ALONG WITH A POWER SOURCE (RECEPTACLE / DISCONNECT SWITCH, ETC.), THE ASSOCIATED POWER SOURCE SHALL SERVE THE TAGGED SPECIALTY EQUIPMENT.
- C. SPECIAL RECEPTACLE NEMA CONFIGURATIONS SHOWN ARE ASSUMED. CONTRACTOR SHALL FIELD COORDINATE AND/OR VERIFY EXACT SPECIAL RECEPTACLE NEMA CONFIGURATION REQUIRED WITH EQUIPMENT SERVED PRIOR TO INSTALLATION.
- D. WHERE EQUIPMENT IS SERVED VIA A HARDWIRED CONNECTION / DISCONNECT SWITCH, ETC., THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO THE EQUIPMENT.
- E. WHERE CIRCUITS ARE SERVING WELDING STATIONS (COMBINATION DISCONNECT SWITCHWELDING RECEPTACLE AND QUADRUPLEX RECEPTACLE) AT BOOTHS, TABLES, ETC. CIRCUIT CONDUCTORS SHALL BE AS FOLLOWS:
 - a. AT BOOTH: COMBINATION DISCONNECT SWITCHWELDING RECEPTACLE AND QUADRUPLEX RECEPTACLE SHALL BE MOUNTED TO A SINGLE UNISTRUT STAND EXTENDING FLOOR TO BUILDING STEEL ABOVE (REFER TO DETAIL). MOUNT COMBINATION DISCONNECT SWITCHWELDING RECEPTACLE AT 40" AFF TO TOP AND QUADRUPLEX RECEPTACLE AT 52" AFF. THE COMBINATION DISCONNECT SWITCHWELDING RECEPTACLE AND THE QUADRUPLEX RECEPTACLE SHALL EACH BE FED FROM A DEDICATED CIRCUIT FROM PANELS SHOWN. CONDUCTORS FOR EACH PER ITEM C BELOW.
 - b. AT TABLE: COMBINATION DISCONNECT SWITCHWELDING RECEPTACLE AND QUADRUPLEX RECEPTACLE SHALL BE MOUNTED TO A COLUMN OR WALL AS SHOWN. MULTIPLE MOUNTING HEIGHTS MAY BE REQUIRED. REFER TO DETAILS. THE COMBINATION DISCONNECT SWITCHWELDING RECEPTACLE AND THE QUADRUPLEX RECEPTACLE SHALL EACH BE FED FROM A DEDICATED CIRCUIT FROM PANELS SHOWN. CONDUCTORS FOR EACH PER ITEM C BELOW.
 - c. WELDING STATION CONDUCTOR SCHEDULE:
 - ITEM W10: 1#10N, 2#10P
 - ITEM W11: 1#10N, 2#10P
 - ITEM W25: 1#10N, 2#10P
 - ITEM W26: 2#10P
 - QUADRUPLEX RECEPTACLE: 1#10N, 1#10P
 - GROUND CONDUCTOR ALL CASES: 1#10G

SHEET KEYNOTES

1. REFER TO DETAILS THIS SHEET FOR CIRCUITING REQUIREMENTS OF EQUIPMENT/DEVICES AT THIS COLUMN.
2. ALL CIRCUITING REQUIRED WITHIN MDF ROOM AS SHOWN ON ENLARGED SYSTEMS PLANS. REFER TO E300 SERIES DRAWINGS FOR ENLARGED PLANS.
3. PROVIDE JUNCTION BOX ROUGH-IN FOR CONNECTION TO WALL MOUNTED HAND DRYER EQUIPMENT. COORDINATE EXACT JUNCTION BOX AND MOUNTING REQUIREMENTS WITH APPROVED SHOP DRAWINGS.
4. PROVIDE 120V, 15A, 1P MOTOR RATED TOGGLE SAFETY SWITCH IN NEMA 1 ENCLOSURE.
5. PROVIDE POWER CONNECTION TO INTEGRAL DISCONNECT SWITCH.
6. PROVIDE 208V, 30A, 2P NON-FUSED SAFETY SWITCH IN A NEMA 1 ENCLOSURE.
7. PROVIDE 208V, 30A, 3P NON-FUSED SAFETY SWITCH IN A NEMA 1 ENCLOSURE.
8. PROVIDE UNISTRUT STAND ADJACENT TO EQUIPMENT CONNECTION FOR MOUNTING OF EQUIPMENT SAFETY SWITCH.
9. PROVIDE 480V, 60A, 3P NON-FUSED SAFETY SWITCH IN A NEMA 1 ENCLOSURE.
10. ALL EMERGENCY POWER OFF (EPO) BUTTONS IN THIS ROOM/AREA SHALL CONTROL THE SHUNT TRIP CIRCUIT BREAKER(S) WHICH SERVE ELECTRICAL PANELS SERVING THIS ROOM/AREA. REFER TO ELECTRICAL ONE-LINE DIAGRAM, EPO WIRING DIAGRAM DETAIL, AND PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
11. PROVIDE 3#6, 1#10G, IN 3/4" CONDUIT.
12. PROVIDE WALL MOUNTED EXTENSION CORD REEL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. PROVIDE 208V, 100A, 3P NON-FUSED SAFETY SWITCH IN NEMA 1 ENCLOSURE FOR CONNECTION TO "HOT TANK PARTS WASHER".
14. PROVIDE 3#3, 1#8G, IN 1-1/4" CONDUIT.
15. PROVIDE POWER CONNECTION TO OVERHEAD DOOR.
16. PROVIDE CONNECTION IN 3/4" CONDUIT TO OVERHEAD DOOR CONTROLS PER MANUFACTURER'S REQUIREMENTS.
17. EXHAUST FAN TO OPERATE WITH LIGHTING IN THIS ROOM.
18. EXTEND CIRCUIT TO ASSOCIATED AC UNIT ON ROOF. COORDINATE EXACT UNIT WITH MECHANICAL DRAWING.
19. PROVIDE WEATHERPROOF POWER CONNECTION TO FIRE PROTECTION HEAT TRACE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
20. PROVIDE PHONE CHARGING OUTLETS IN COMMONS STAIR RISERS. REFER ARCHITECTURAL DRAWINGS, DETAIL ES600B, FOR ADDITIONAL INFORMATION.
21. PROVIDE EMERGENCY POWER OFF (EPO) SWITCH AT TEACHER'S DESK. EPO SWITCH SHALL BE INTEGRATED WITH ADDITIONAL EPO'S IN RELATED, ADJACENT LAB. REFER TO EPO SWITCH DETAIL FOR MORE INFORMATION.
22. PROVIDE LOW-VOLTAGE CONNECTION FOR CLASSROOM DOORBELL.
23. PROVIDED DEDICATED 120V, 20 AMP, SIMPLEX RECEPTACLE FOR PIT SUMP PUMP.
24. REFER TO PANEL SCHEDULES FOR CIRCUIT ORIGIN AND NUMBER.
25. EQUIPMENT TO BE FED FROM CEILING. REFER TO POWER CORD DROP AT SPECIALTY EQUIPMENT DETAIL.
26. PROVIDE RECEPTACLE ON TOP OF ELEVATOR CAB.



1 FIRST FLOOR PLAN A - POWER
SCALE: 1/8" = 1'-0"

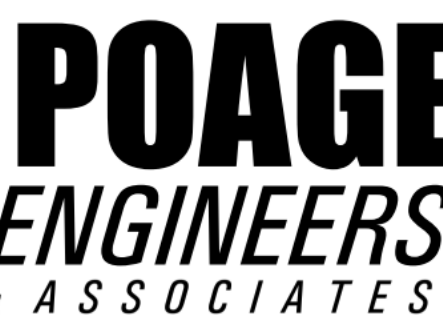
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REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4

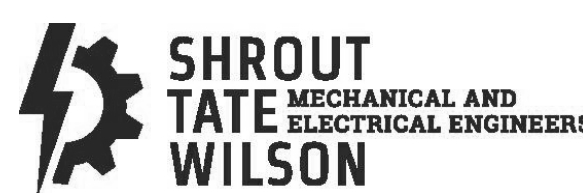


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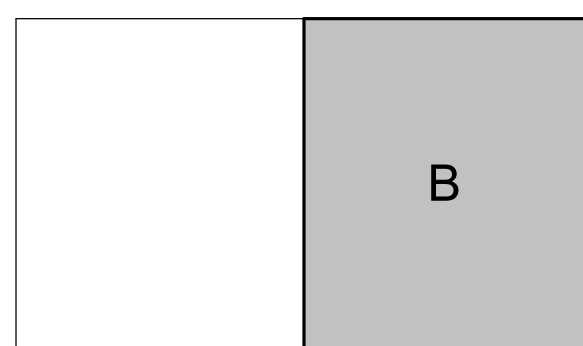


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KEYPLAN

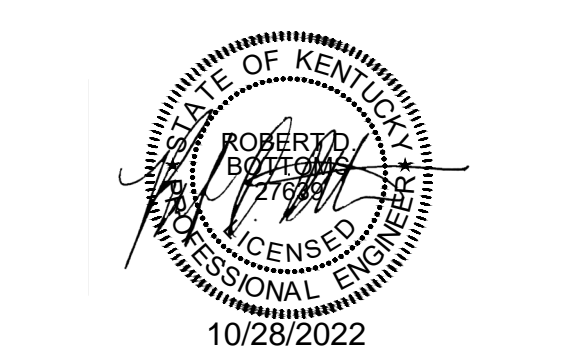


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Checked By RDB
Date 09/28/2022



FIRST FLOOR PLAN B - POWER

ADD #4
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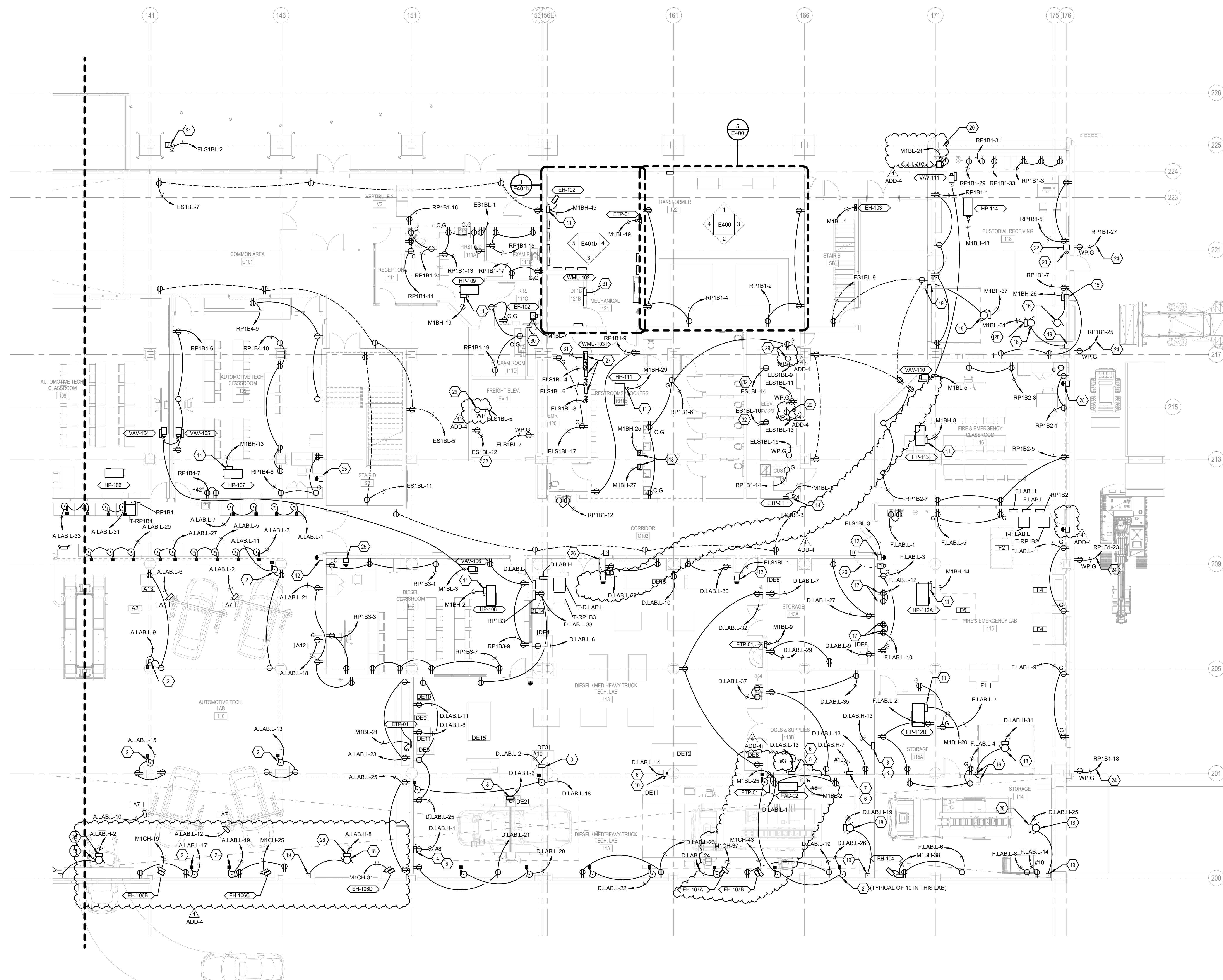
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GENERAL NOTES

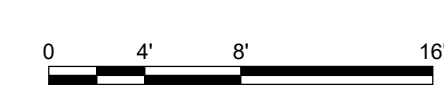
- REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTIONS OF SPECIALTY EQUIPMENTS. WHERE SPECIALTY EQUIPMENT IS TAGGED ALONG WITH A POWER SOURCE (RECEPTACLE / DISCONNECT SWITCH, ETC.), THE ASSOCIATED POWER SOURCE SHALL SERVE THE TAGGED SPECIALTY EQUIPMENT.
- SPECIAL RECEPTACLE NEMA CONFIGURATIONS SHOWN ARE ASSUMED. CONTRACTOR SHALL FIELD COORDINATE AND/OR VERIFY EXACT SPECIAL RECEPTACLE NEMA CONFIGURATION REQUIRED WITH EQUIPMENT SERVED PRIOR TO INSTALLATION.
- WHERE EQUIPMENT IS SERVED VIA A HARDWIRED CONNECTION / DISCONNECT SWITCH, ETC., THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO THE EQUIPMENT.

SHEET KEYNOTES

- PROVIDE POWER CONNECTION TO METAL DETECTORS. REFER TO SHOP DRAWINGS FOR EXACT POWER REQUIREMENTS. COORDINATE WITH ALL OTHER TRADES.
- PROVIDE WALL MOUNTED EXTENSION CORD REEL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE 208V, 30A, 2P, NON-FUSIBLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE.
- FIELD COORDINATE EXACT COMBO DISCONNECT SIZE AND NEMA CONFIGURATION WITH OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION.
- PROVIDE 208V, 100A, 3P, NON-FUSIBLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE FOR CONNECTION TO "HOT TANK PARTS WASHER".
- FIELD COORDINATE EXACT LOCATION OF OWNER PROVIDED EQUIPMENT PRIOR TO INSTALLATION. SAFETY SWITCH TO BE LOCATED ADJACENT TO EQUIPMENT. PROVIDE POWER CONNECTION TO EQUIPMENT.
- PROVIDE 480V, 30A, 3P, NON-FUSIBLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE FOR CONNECTION TO "CHAMPION AIR COMPRESSOR".
- PROVIDE 480V, 30A, 3P, NON-FUSIBLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE FOR CONNECTION TO "CHAMPION AIR DRYER".
- PROVIDE 208V, 20A, 2P, NON-FUSIBLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE FOR CONNECTION TO 2 POST 16K LIFT.
- PROVIDE SINGLE STRUT STAND SUPPORTED BY FLOOR AND STEEL STRUCTURE ABOVE. PROVIDE 208V, 30A, 2P, NON-FUSIBLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE FOR CONNECTION TO 2 POST 16K LIFT. PROVIDE POWER CONNECTION TO EQUIPMENT.
- PROVIDE POWER CONNECTION TO FACTORY PROVIDED, UNIT MOUNTED SAFETY SWITCH.
- ALL EMERGENCY POWER OFF (EPO) BUTTONS IN THIS ROOM/AREA SHALL CONTROL THE SHUNT TRIP CIRCUIT BREAKERS WHICH SERVE ELECTRICAL PANELS SERVING THIS ROOM/AREA. REFER TO ELECTRICAL ONE-LINE DIAGRAM, EPO WIRING DIAGRAM DETAIL, AND PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- PROVIDE JUNCTION BOX ROUGH-IN FOR CONNECTION TO WALL MOUNTED HAND DRYER EQUIPMENT. COORDINATE EXACT JUNCTION BOX AND MOUNTING REQUIREMENTS WITH APPROVED SHOP DRAWINGS.
- PROVIDE 120V, 15A, 1P TOGGLE SAFETY SWITCH IN NEMA 1 ENCLOSURE.
- DOCK LEVELER CONTROL PANEL. FIELD COORDINATE EXACT LOCATION.
- PROVIDE CONNECTION TO DOCK LEVELER.
- PROVIDE RECEPTACLES FOR EQUIPMENT CHARGING STATIONS. COORDINATE FINAL LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
- PROVIDE POWER CONNECTION TO OVERHEAD DOOR.
- PROVIDE CONNECTION TO OVERHEAD DOOR CONTROLS PER MANUFACTURER'S REQUIREMENTS.
- ROUTE CONDUITS TO / FROM THE EMERGENCY GENERATOR THROUGH THIS CHASE AS NECESSARY. EXTEND CONDUITS FROM UNDERGROUND UP TO ABOVE ACCESSIBLE CEILING OF 2ND FLOOR ABOVE AND ACROSS GANTLETVERED ROOFS TO MECHANICAL AND ELECTRICAL ROOMS 210A AND/OR 210B AS NECESSARY. UTILIZE EXISTING EXTERIOR STAIRWALK WAY THAT IS BELOW FINISHED FLOOR LEVEL. CUT/TRENCH TO EXTERIOR AS NECESSARY TO COMPLETE ROUTE TO UNDERGROUND.
- PROVIDE WEATHERPROOF POWER CONNECTION TO FIRE PROTECTION HEAT TRACE. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
- PROVIDE CONTACTOR RC1, 30 AMP, 4P, MECHANICALLY HELD CONTACTOR IN A NEMA 1 ENCLOSURE.
- PROVIDE SWITCH FOR CONTROL OF CONTACTOR RC1.
- EXTEND CIRCUIT THROUGH CONTACTOR RC1 FOR CONTROL.
- PROVIDE EMERGENCY POWER OFF (EPO) SWITCH AT TEACHER'S DESK. EPO SWITCH SHALL BE INTEGRATED WITH ADDITIONAL EPO'S IN RELATED ADJACENT LAB. REFER TO EPO SWITCH DETAIL FOR MORE INFORMATION.
- PROVIDE LOW-VOLTAGE CONNECTION FOR CLASSROOM DOORBELL.
- PROVIDE DISCONNECT SWITCH AND CONNECTION TO ELEVATOR CONTROLLER EACH FOR ELEVATORS 1, 2, AND 3. FUSE PER UNIT NAMEPLATE. PROVIDE DISCONNECT SWITCHES WITH AUXILIARY CONTACTS INDICATING SWITCH POSITION AND WIRING FROM CONTACTS TO CONTROLLER. TERMINATE AS DIRECTED BY ELEVATOR INSTALLER FOR BATTERY LOWERING SYSTEM. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
- PROVIDE AUXILIARY CONTACT ON DISCONNECT SERVING OVERHEAD DOOR FOR CONTROL OF LIGHT FIXTURES. REFER TO LIGHTING PLANS FOR ADDITIONAL INFORMATION.
- PROVIDED DEDICATED 120V, 20 AMP, SIMPLEX RECEPTACLE FOR PIT SUMP PUMP.
- EXTEND CIRCUIT THROUGH DEDICATED LIGHTING POWER PACK FOR CONTROL.
- EXTEND CIRCUIT TO ASSOCIATED AC UNIT ON ROOF. COORDINATE EXACT UNIT WITH MECHANICAL DRAWING.
- PROVIDE RECEPTACLE ON TOP OF ELEVATOR CAB.



1 FIRST FLOOR PLAN B - POWER
SCALE: 1/8" = 1'-0"

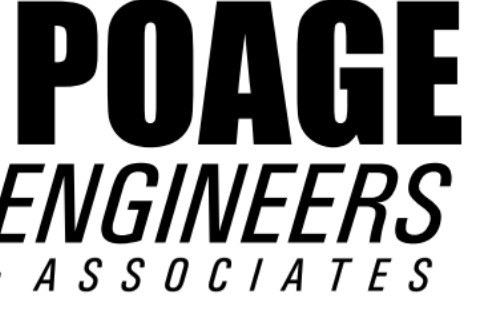


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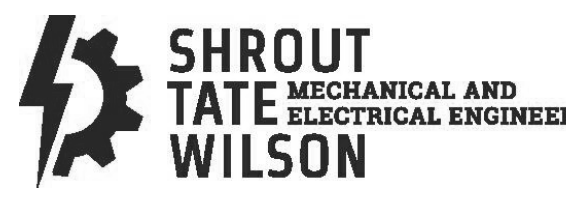
REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4



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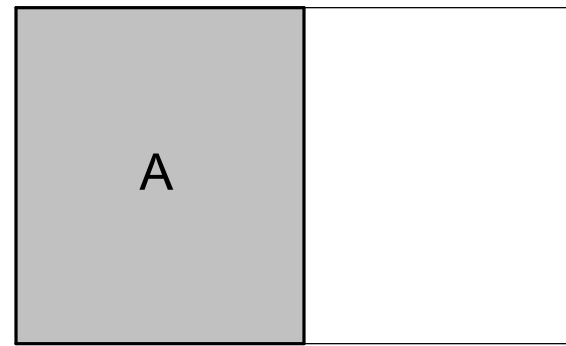


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KEYPLAN

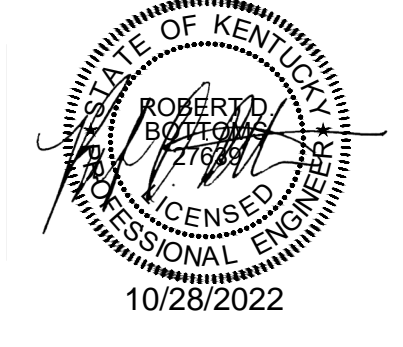
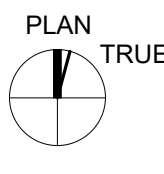


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Checked By RDB
Date 09/28/2022



**SECOND FLOOR PLAN
A - POWER**

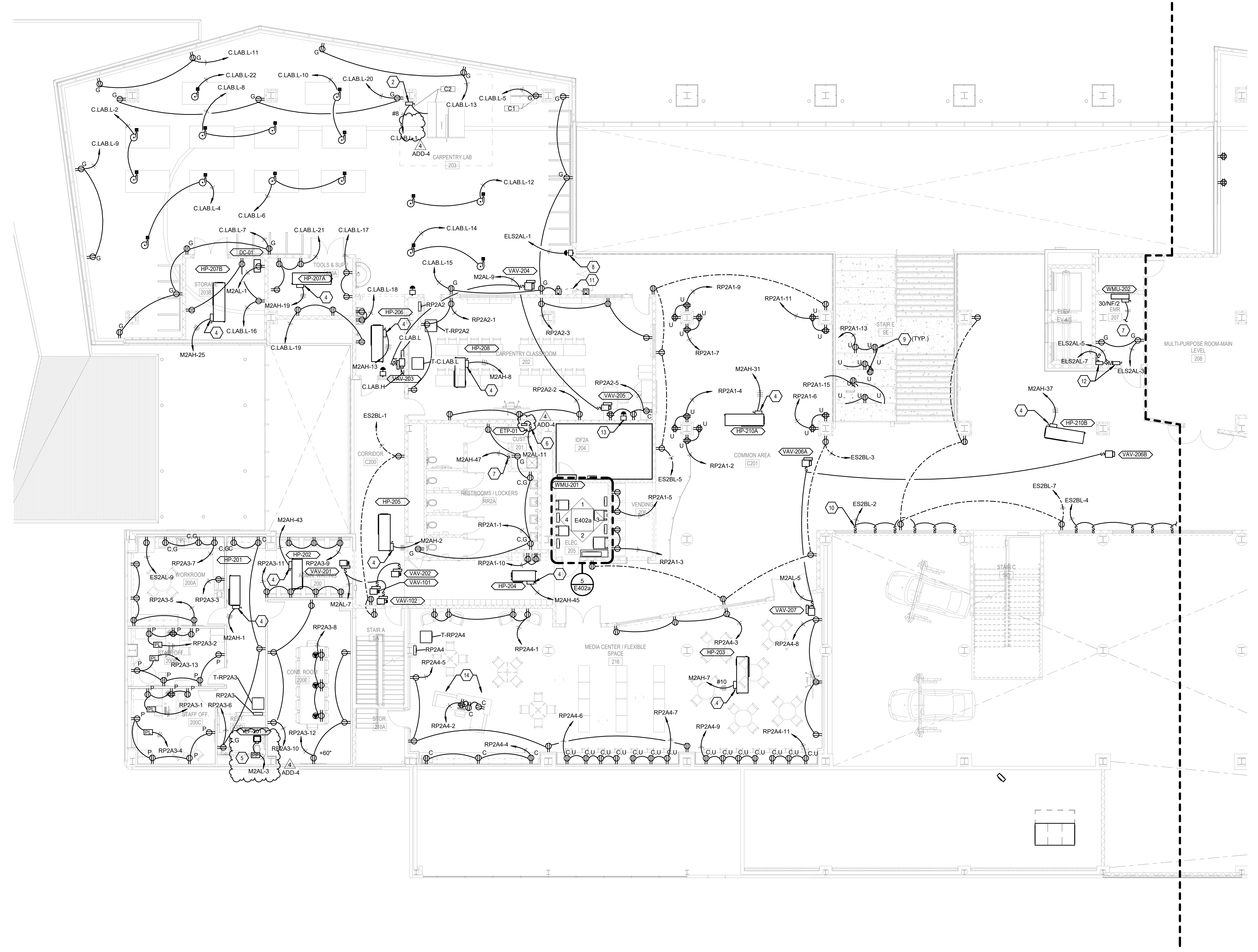
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GENERAL NOTES

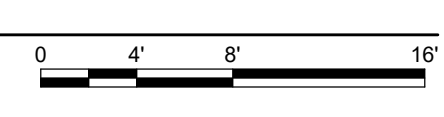
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTIONS OF SPECIALTY EQUIPMENTS. WHERE SPECIALTY EQUIPMENT IS TAGGED ALONG WITH A POWER SOURCE (RECEPTACLE / DISCONNECT SWITCH, ETC.), THE ASSOCIATED POWER SOURCE SHALL SERVE THE TAGGED SPECIALTY EQUIPMENT.
- C. SPECIAL RECEPTACLE NEMA CONFIGURATIONS SHOWN ARE ASSUMED. CONTRACTOR SHALL FIELD COORDINATE AND/OR VERIFY EXACT SPECIAL RECEPTACLE NEMA CONFIGURATION REQUIRED WITH EQUIPMENT SERVED PRIOR TO INSTALLATION.
- D. WHERE EQUIPMENT IS SERVED VIA A HARDWIRED CONNECTION / DISCONNECT SWITCH, ETC., THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO THE EQUIPMENT.

SHEET KEYNOTES

1. PROVIDE CEILING MOUNTED RECEPTACLE FOR CONNECTION TO PROJECTOR. MOUNT JUNCTION BOX FOR RECEPTACLE TO STRUCTURE.
2. PROVIDE A 208V, 60A, 2P, NON-FUSED SAFETY SWITCH IN A NEMA 12 ENCLOSURE.
3. PROVIDE 2#8, 1#10G, IN 3/4" CONDUIT.
4. PROVIDE POWER CONNECTION TO INTEGRAL DISCONNECT SWITCH.
5. EXTEND CIRCUIT THROUGH DEDICATED LIGHTING POWER PACK FOR CONTROL.
6. PROVIDE 120V, 15A, 1P TOGGLE SAFETY SWITCH IN NEMA 1 ENCLOSURE.
7. EXTEND CIRCUIT TO ASSOCIATED AC UNIT ON ROOF. COORDINATE EXACT UNIT WITH MECHANICAL DRAWING.
8. ALL EMERGENCY POWER OFF (EPO) BUTTONS IN THIS ROOM/AREA SHALL CONTROL THE SHUNT TRIP CIRCUIT BREAKER(S) WHICH SERVE ELECTRICAL PANELS SERVING THIS ROOM/AREA. REFER TO ELECTRICAL ONE-LINE DIAGRAM, EPO WIRING DIAGRAM DETAIL, AND PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
9. PROVIDE PHONE CHARGING OUTLETS IN COMMUNITY STAIR RISERS. REFER ARCHITECTURAL DRAWINGS, DETAIL ES5600b FOR ADDITIONAL INFORMATION.
10. PROVIDE POWER CONNECTION TO SHADE MOTOR. SHADES TO BE CONTROLLED BY SWITCH LOCATED AT TEACHER STATION ON FIRST FLOOR, TYPICAL OF 16.
11. PROVIDE LOW-VOLTAGE CONNECTION FOR CLASSROOM DOORBELL.
12. PROVIDE DISCONNECT SWITCH AND CONNECTION TO ELEVATOR CONTROLLER EACH, FOR ELEVATORS 4 AND 5. FUSE PER UNIT NAMEPLATE. PROVIDE DISCONNECT SWITCHES WITH AUXILIARY CONTACTS INDICATING SWITCH POSITION AND WIRING FROM CONTACTS TO CONTROLLER. TERMINATE AS DIRECTED BY ELEVATOR INSTALLER FOR BATTERY LOWERING SYSTEM. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
13. PROVIDE EMERGENCY POWER OFF (EPO) SWITCH AT TEACHER'S DESK. EPO SWITCH SHALL BE INTEGRATED WITH ADDITIONAL EPO'S IN RELATED ADJACENT LAB. REFER TO EPO SWITCH DETAIL FOR MORE INFORMATION.
14. MOUNT DEVICES WITHIN CASEWORK. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DETAILS.



1 SECOND FLOOR PLAN A - POWER
SCALE: 1/8" = 1'-0"



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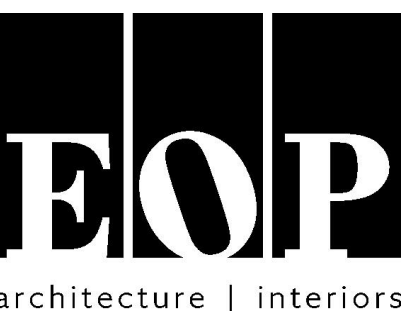
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BID DOCUMENTS

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1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4



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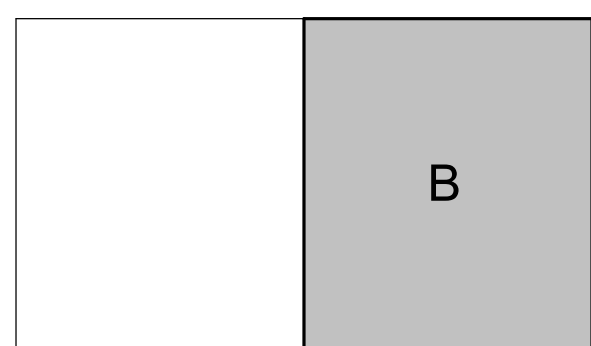


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KEYPLAN

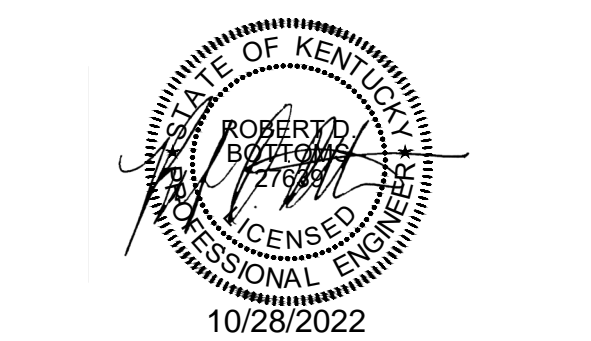


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**SECOND FLOOR PLAN
B - POWER**

ADD #4
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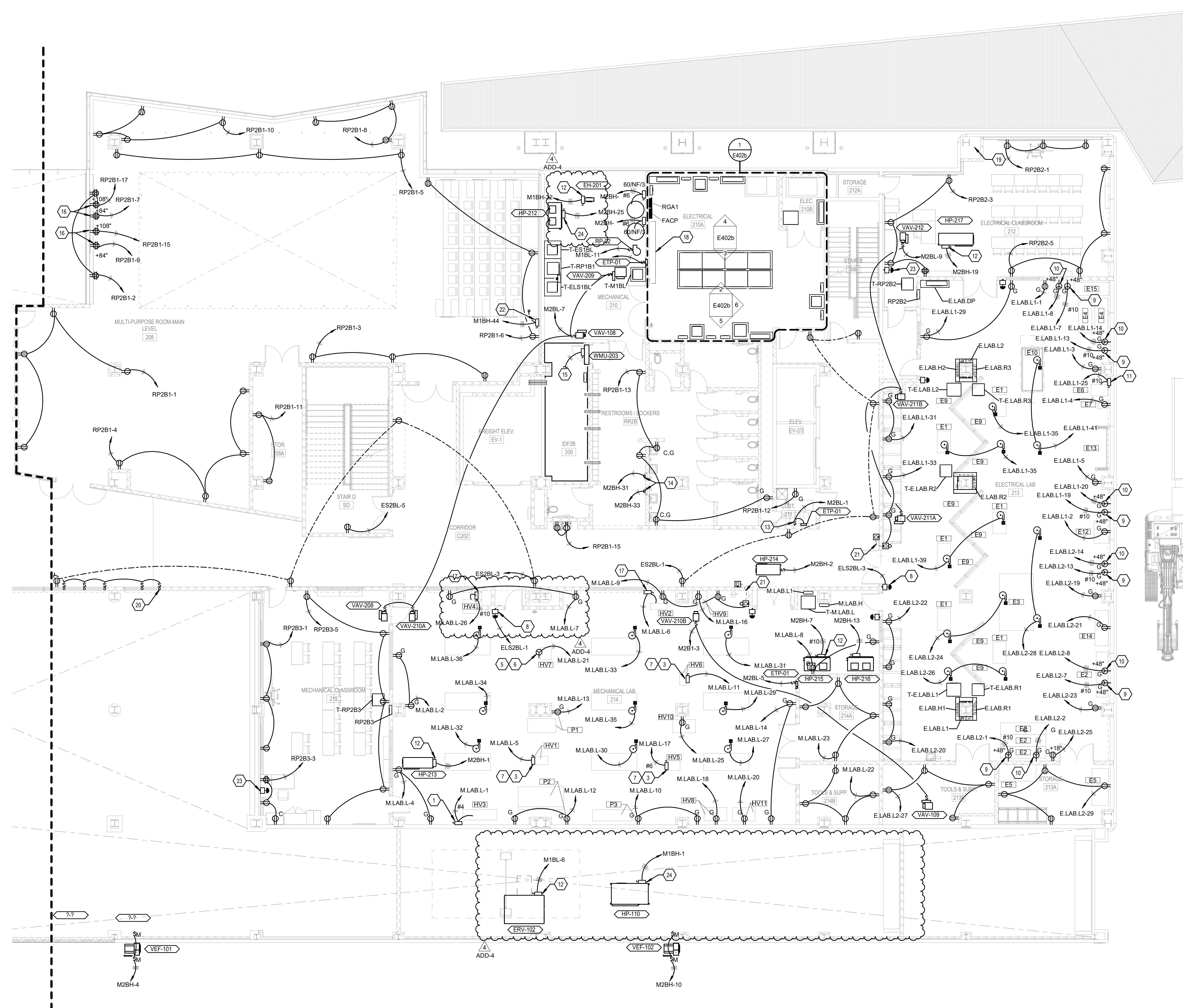
E202b

GENERAL NOTES

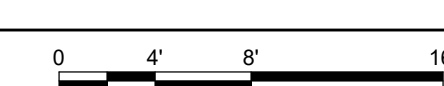
- REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTIONS OF SPECIALTY EQUIPMENT. WHERE SPECIALTY EQUIPMENT IS TAGGED ALONG WITH A POWER SOURCE (RECEPTACLE / DISCONNECT SWITCH, ETC.), THE ASSOCIATED POWER SOURCE SHALL SERVE THE TAGGED SPECIALTY EQUIPMENT.
- SPECIAL RECEPTACLE NEMA CONFIGURATIONS SHOWN ARE ASSUMED. CONTRACTOR SHALL FIELD COORDINATE AND/OR VERIFY EXACT SPECIAL RECEPTACLE NEMA CONFIGURATION. PROVIDE SPECIALTY EQUIPMENT SERVED PRIOR TO PROCUREMENT.
- WHERE EQUIPMENT IS SERVED VIA A HARDWIRED CONNECTION / DISCONNECT SWITCH, ETC., THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO THE EQUIPMENT.

SHEET KEYNOTES

- PROVIDE 208V, 60A, 2P, NON-FUSED SAFETY SWITCH IN A NEMA 1 ENCLOSURE.
- PROVIDE 2#4, 1#10, IN 1" CONDUIT.
- PROVIDE 208V, 30A, 2P, NON-FUSED SAFETY SWITCH IN A NEMA 1 ENCLOSURE.
- PROVIDE 2#10, 1#10G, IN 3/4" CONDUIT.
- ASSUME NEMA 14-15R CONFIGURATION. FIELD COORDINATE EXACT CONNECTION REQUIREMENTS WITH OWNER EQUIPMENT.
- PROVIDE SUSPENDED CEILING MOUNTED RECEPTACLE TO SERVE SPECIALTY EQUIPMENT. REFER TO POWER CORD DROP AT SPECIALTY EQUIPMENT DETAIL FOR ADDITIONAL INFORMATION.
- PROVIDE UNI-STRUT STAND FOR MOUNTING OF EQUIPMENT SAFETY SWITCH.
- ALL EMERGENCY POWER OFF (EPO) BUTTONS IN THIS ROOM/AREA SHALL CONTROL THE SHUNT TRIP CIRCUIT BREAKER(S) WHICH SERVE ELECTRICAL PANELS SERVING THIS ROOM/AREA. REFER TO ELECTRICAL ONE-LINE DIAGRAM. EPO WIRING DIAGRAM DETAIL, AND PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
- PROVIDE NEMA L15-30R CONFIGURATION. FIELD COORDINATE EXACT CONNECTION REQUIREMENTS WITH OWNER EQUIPMENT.
- PROVIDE NEMA L21-20R CONFIGURATION. FIELD COORDINATE EXACT CONNECTION REQUIREMENTS WITH OWNER EQUIPMENT.
- PROVIDE 208V, 30A, 2P FUSIBLE SAFETY SWITCH IN NEMA 3R ENCLOSURE, FUSED AT 20 AMPS. FIELD COORDINATE EXACT CONNECTION AND FUSE REQUIREMENTS WITH OWNER EQUIPMENT.
- PROVIDE POWER CONNECTION TO FACTORY PROVIDED, UNIT MOUNTED SAFETY SWITCH.
- PROVIDE 120V, 15A, 1P TOGGLE SAFETY SWITCH IN NEMA 1 ENCLOSURE.
- PROVIDE JUNCTION BOX ROUGH-IN FOR CONNECTION TO WALL MOUNTED HAND DRYER EQUIPMENT. COORDINATE EXACT JUNCTION BOX AND MOUNTING REQUIREMENTS WITH APPROVED SHOP DRAWINGS.
- EXTEND CIRCUIT TO ASSOCIATED AC UNIT ON ROOF. COORDINATE EXACT UNIT WITH MECHANICAL DRAWING.
- PROVIDE RECESSED QUADRUPEL RECEPTACLE. FIELD COORDINATE EXACT MOUNTING HEIGHT OF RECEPTACLES. RECEPTACLES TO BE CONCEALED BEHIND TV MATRIX.
- PROVIDE 208V, 60A, 3P, FUSIBLE SAFETY SWITCH IN NEMA 1 ENCLOSURE, FUSED AT 60A. VERIFY DISCONNECT SIZE, POLE AND FUSE SIZE WITH OWNER PROVIDED EQUIPMENT.
- MOUNT ONLY FIRE ALARM EQUIPMENT WITHIN THIS WALLSPACE.
- ROUTE CONDUITS TO / FROM THE EMERGENCY GENERATOR THROUGH THIS CHASE AS NECESSARY.
- PROVIDE POWER CONNECTION TO SHADE MOTOR. SHADES TO BE CONTROLLED BY SWITCH LOCATED AT TEACHER'S STATION ON FIRST FLOOR. TYPICAL OF 16.
- PROVIDE LOW-VOLTAGE CONNECTION FOR CLASSROOM DOORBELL.
- PROVIDE FLUSH MOUNTED ENCLOSED 15A/3P CIRCUIT BREAKER CAPABLE OF ACCEPTING A PAD LOCK TO SERVE AS LOCAL DISCONNECT SWITCH FOR MOTORIZED SEATING PLATFORM. PROVIDE ENCLOSURE WITH LOCKABLE DOOR AND IN A CUSTOM COLOR PER ARCHITECT'S DIRECTION. MOUNT PLATFORM CONTROLS ADJACENT TO ENCLOSED CIRCUIT BREAKER. PROVIDE CONNECTIONS AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS. FIELD COORDINATE EXACT LOCATION.
- PROVIDE EMERGENCY POWER OFF (EPO) SWITCH AT TEACHER'S DESK. EPO SWITCH SHALL BE INTEGRATED WITH ADDITIONAL EPO'S IN RELATED, ADJACENT LAB. REFER TO EPO SWITCH DETAIL FOR MORE INFORMATION.
- PROVIDE 480V, 30A, 3P, NON-FUSIBLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE.

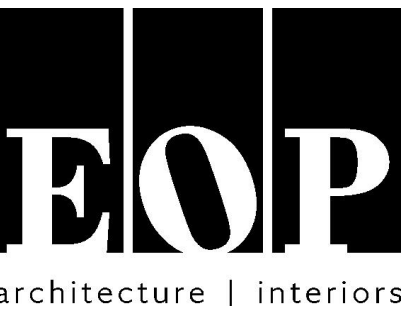


1 SECOND FLOOR PLAN B - POWER
SCALE: 1/8" = 1'-0"



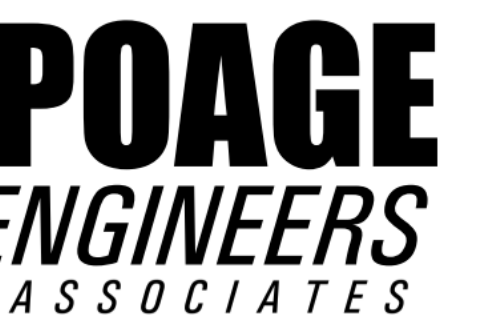
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REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4



PROJECT TEAM

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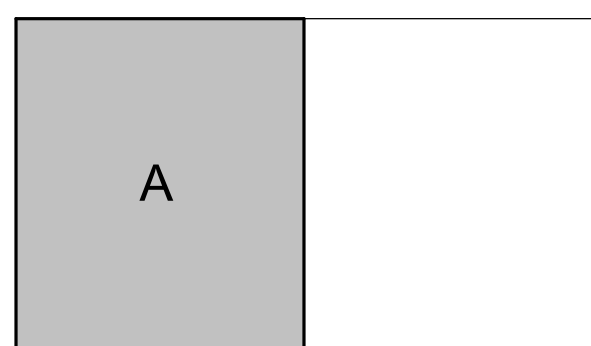


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KEYPLAN

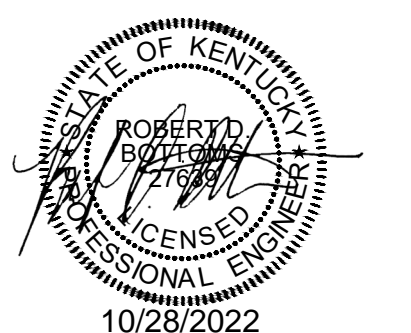
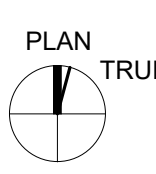


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Drawn By JHS
Checked By RDB
Date 09/28/2022



THIRD FLOOR PLAN A - POWER

ADD #4
10/28/2022

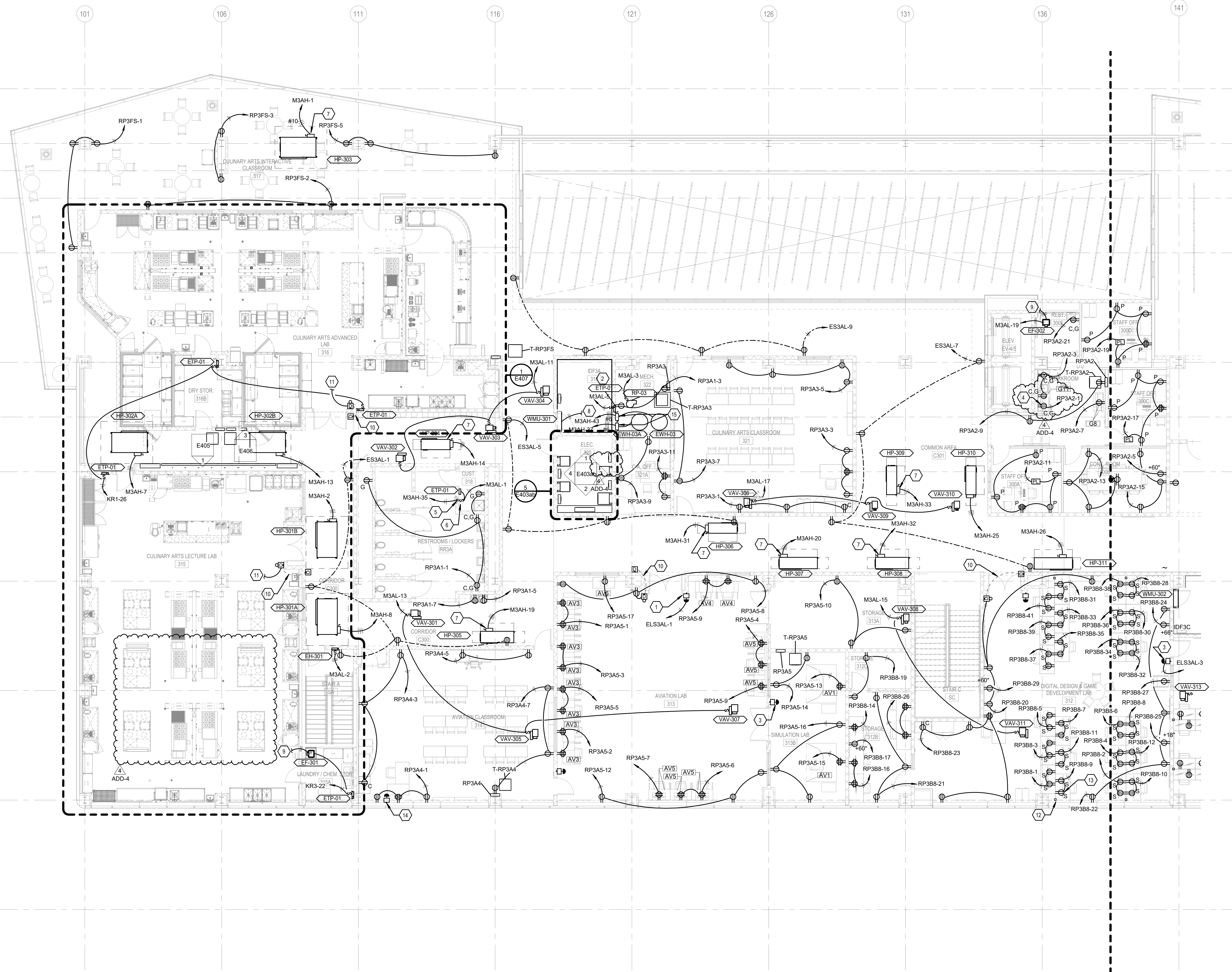
E203a

GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTIONS OF SPECIALTY EQUIPMENTS. WHERE SPECIALTY EQUIPMENT IS TAGGED ALONG WITH A POWER SOURCE (RECEPTACLE / DISCONNECT SWITCH, ETC.), THE ASSOCIATED POWER SOURCE SHALL SERVE THE TAGGED SPECIALTY EQUIPMENT.
- C. SPECIAL RECEPTACLE NEMA CONFIGURATIONS SHOWN ARE ASSUMED. CONTRACTOR SHALL FIELD COORDINATE AND/OR VERIFY EXACT SPECIAL RECEPTACLE NEMA CONFIGURATION REQUIRED WITH EQUIPMENT SERVED PRIOR TO INSTALLATION.
- D. WHERE EQUIPMENT IS SERVED VIA A HARDWIRED CONNECTION / DISCONNECT SWITCH, ETC., THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO THE EQUIPMENT.

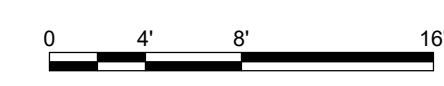
SHEET KEYNOTES

1. ALL EMERGENCY POWER OFF (EPO) BUTTONS IN THIS ROOM/AREA SHALL CONTROL THE SHUNT TRIP CIRCUIT BREAKER(S) WHICH SERVE ELECTRICAL PANELS SERVING THIS ROOM/AREA. REFER TO ELECTRICAL ONE-LINE DIAGRAM, EPO WIRING DIAGRAM DETAIL, AND PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
2. ALL CIRCUITING REQUIRED WITHIN IDF ROOM AS SHOWN ON ENLARGED SYSTEMS PLANS. REFER TO E300 SERIES DRAWINGS FOR ENLARGED PLANS.
3. EMERGENCY POWER OFF (EPO) BUTTON SHALL WORK IN CONJUNCTION TO EPO BUTTON IN ROOM 313.
4. MOUNT RECEPTACLE SERVING EQUIPMENT G11, MICROWAVE, WITHIN CASEWORK. FIELD COORDINATE EXACT LOCATION.
5. PROVIDE JUNCTION BOX ROUGH-IN FOR CONNECTION TO WALL MOUNTED HAND DRYER EQUIPMENT. COORDINATE EXACT JUNCTION BOX AND MOUNTING REQUIREMENTS WITH APPROVED SHOP DRAWINGS.
6. PROVIDE 120V, 15A, 1P TOGGLE SAFETY SWITCH IN NEMA 1 ENCLOSURE.
7. PROVIDE POWER CONNECTION TO INTEGRAL DISCONNECT SWITCH.
8. EXTEND CIRCUIT TO ASSOCIATED AC UNIT ON ROOF. COORDINATE EXACT UNIT WITH MECHANICAL DRAWING.
9. EXTEND CIRCUIT THROUGH DEDICATED LIGHTING POWER PACK FOR CONTROL.
10. PROVIDE LOW-VOLTAGE CONNECTION FOR CLASSROOM DOORBELL.
11. CONTINUE TO NEAREST GENERAL PURPOSE RECEPTACLE CIRCUIT INSIDE LAB SPACE.
12. PROVIDE JUNCTION BOX TO ROUTE CABLING AS REQUIRED TO SERVE SYSTEMS FURNITURE EQUIPMENT. COORDINATE WITH REVIEWED SHOP DRAWINGS.
13. DEVICES SHOWN ARE IN SYSTEMS FURNITURE. FIELD COORDINATE EXACT LOCATION OF EQUIPMENT.
14. PROVIDE EMERGENCY POWER OFF (EPO) SWITCH AT TEACHER'S DESK. EPO SWITCH SHALL BE INTEGRATED WITH ADDITIONAL EPO'S IN RELATED ADJACENT LAB. REFER TO EPO SWITCH DETAIL FOR MORE INFORMATION.
15. PROVIDE 480V, 60A, 3P, NON-FUSED SAFETY SWITCH IN A NEMA 1 ENCLOSURE.



1 THIRD FLOOR PLAN A - POWER

SCALE: 1/8" = 1'-0"



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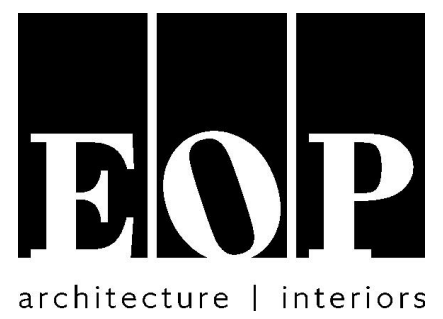
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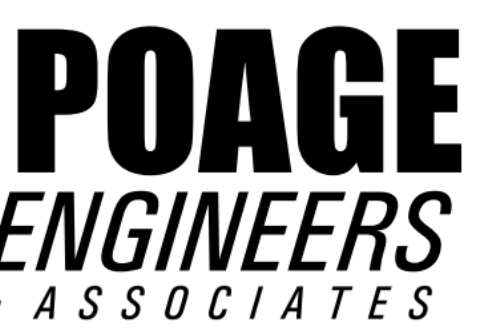
BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4



PROJECT TEAM

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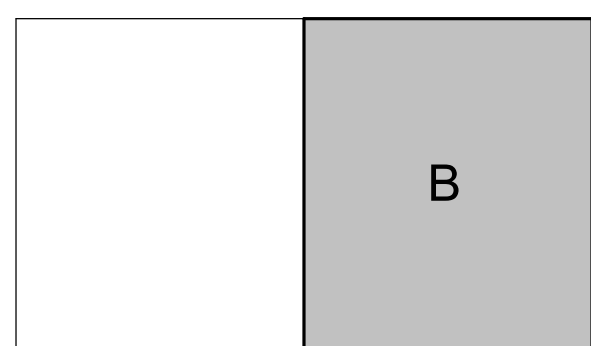


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KEYPLAN

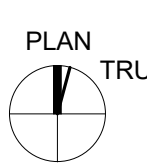


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Drawn By JHS
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Date 09/28/2022



THIRD FLOOR PLAN B - POWER

ADD #4
10/28/2022

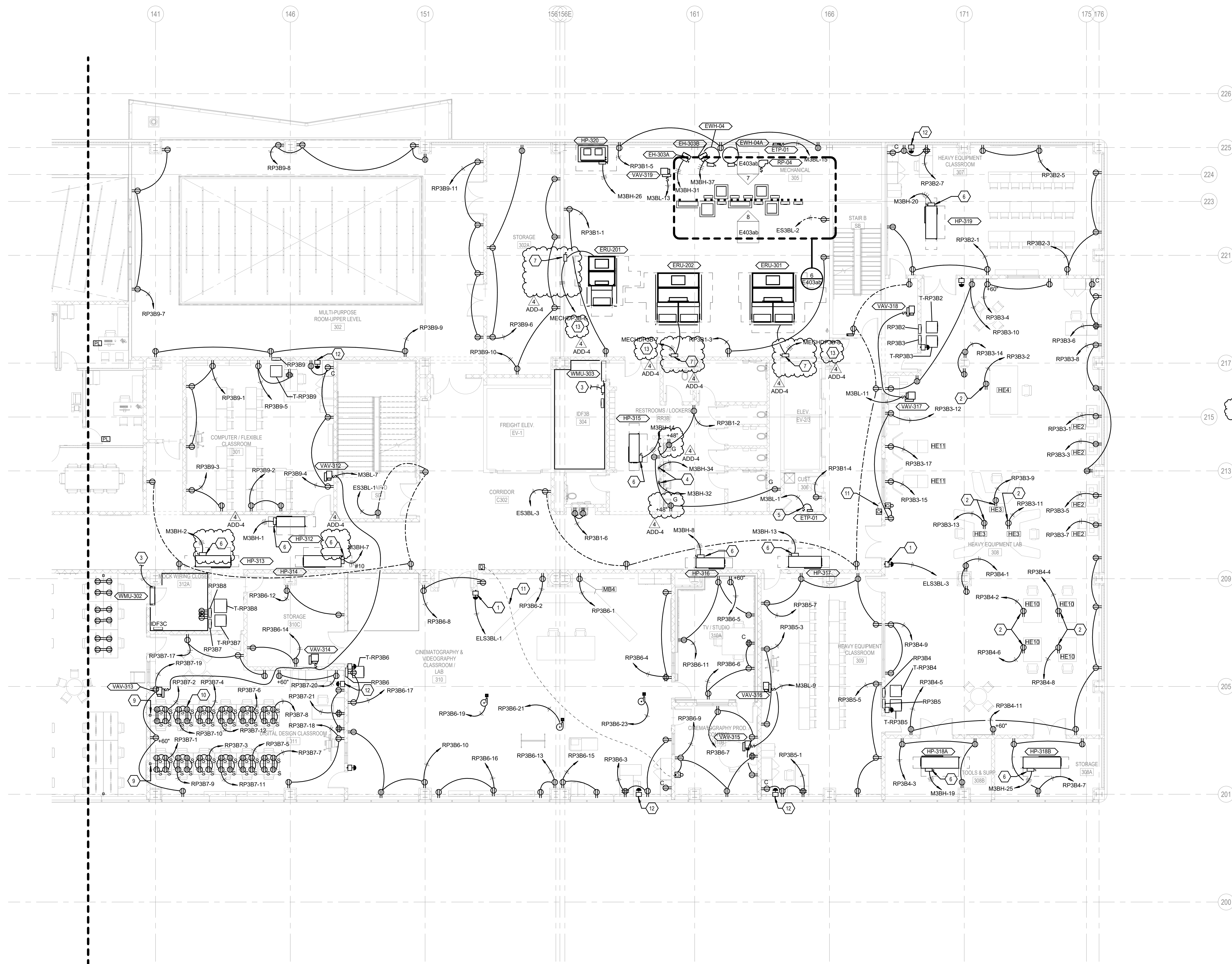
E203b

GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTIONS OF SPECIALTY EQUIPMENTS. WHERE SPECIALTY EQUIPMENT IS TAGGED ALONG WITH A POWER SOURCE (RECEPTACLE / DISCONNECT SWITCH, ETC.), THE ASSOCIATED POWER SOURCE SHALL SERVE THE TAGGED SPECIALTY EQUIPMENT.
- C. SPECIAL RECEPTACLE NEMA CONFIGURATIONS SHOWN ARE ASSUMED. CONTRACTOR SHALL FIELD COORDINATE AND/OR VERIFY EXACT SPECIAL RECEPTACLE NEMA CONFIGURATION REQUIRED WITH EQUIPMENT SERVED PRIOR TO INSTALLATION.
- D. WHERE EQUIPMENT IS SERVED VIA A HARDWIRED CONNECTION / DISCONNECT SWITCH, ETC., THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO THE EQUIPMENT.

226 SHEET KEYNOTES

1. ALL EMERGENCY POWER OFF (EPO) BUTTONS IN THIS ROOM/AREA SHALL CONTROL THE SHUNT TRIP CIRCUIT BREAKER(S) WHICH SERVE ELECTRICAL PANELS SERVING THIS ROOM/AREA. REFER TO ELECTRICAL ONE-LINE DIAGRAM, EPO WIRING DIAGRAM DETAIL, AND PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
2. PROVIDE SUSPENDED CEILING MOUNTED RECEPTACLE TO SERVE SPECIALTY EQUIPMENT. REFER TO POWER CORD DROP AT SPECIALTY EQUIPMENT DETAIL FOR ADDITIONAL INFORMATION.
3. EXTEND CIRCUIT TO ASSOCIATED AC UNIT ON ROOF. COORDINATE EXACT UNIT WITH MECHANICAL DRAWING.
4. PROVIDE JUNCTION BOX ROUGH-IN FOR CONNECTION TO WALL MOUNTED HAND DRYER EQUIPMENT. COORDINATE EXACT JUNCTION BOX AND MOUNTING REQUIREMENTS WITH APPROVED SHOP DRAWINGS.
5. PROVIDE 120V, 15A, 1P TOGGLE SAFETY SWITCH IN NEMA 1 ENCLOSURE.
6. PROVIDE POWER CONNECTION TO INTEGRAL DISCONNECT SWITCH.
7. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR DISCONNECT SWITCH AND CIRCUIT SIZE.
8. PROVIDE 3/2, 1#9G, IN 1-1/4" CONDUIT.
9. PROVIDE JUNCTION BOX TO ROUTE CABLING AS REQUIRED TO SERVE SYSTEMS FURNITURE EQUIPMENT. COORDINATE WITH REVIEWED SHOP DRAWINGS.
10. DEVICES SHOWN ARE IN SYSTEMS FURNITURE. FIELD COORDINATE EXACT LOCATION OF EQUIPMENT.
11. PROVIDE LOW-VOLTAGE CONNECTION FOR CLASSROOM DOORBELL.
12. PROVIDE EMERGENCY POWER OFF (EPO) SWITCH AT TEACHER'S DESK. EPO SWITCH SHALL BE INTEGRATED WITH ADDITIONAL EPO'S IN RELATED, ADJACENT LAB. REFER TO EPO SWITCH DETAIL FOR MORE INFORMATION.
13. REFER TO POWER ONE-LINE DIAGRAM FOR WIRE SIZES.



1 THIRD FLOOR PLAN B - POWER
SCALE: 1/8" = 1'-0"



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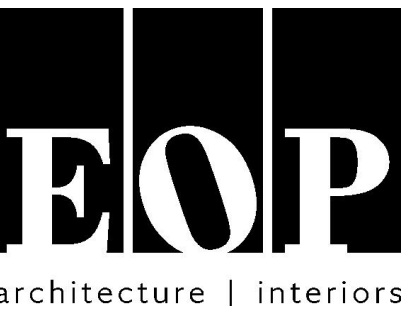
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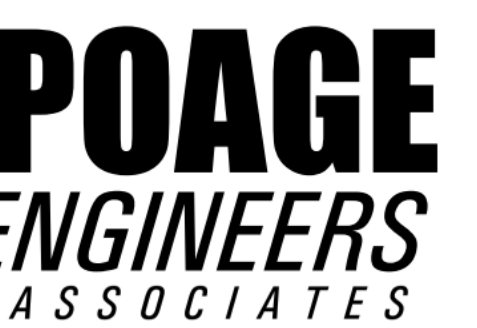
BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
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4	10/28/22	ADDENDUM 4

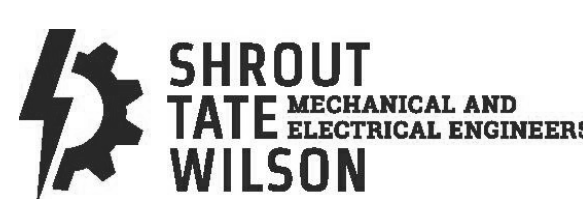


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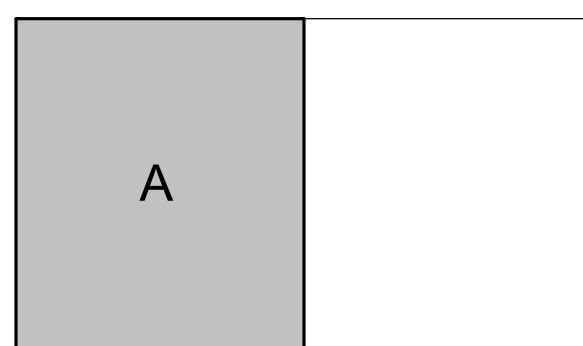


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KEYPLAN

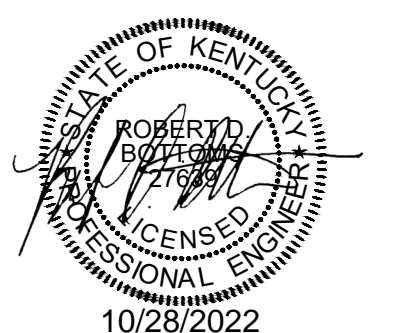


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Job Number 2150 PLAN TRUE
Drawn By JHS
Checked By RDB
Date 09/28/2022



**FOURTH FLOOR PLAN
A - POWER**

ADD #4
10/28/2022

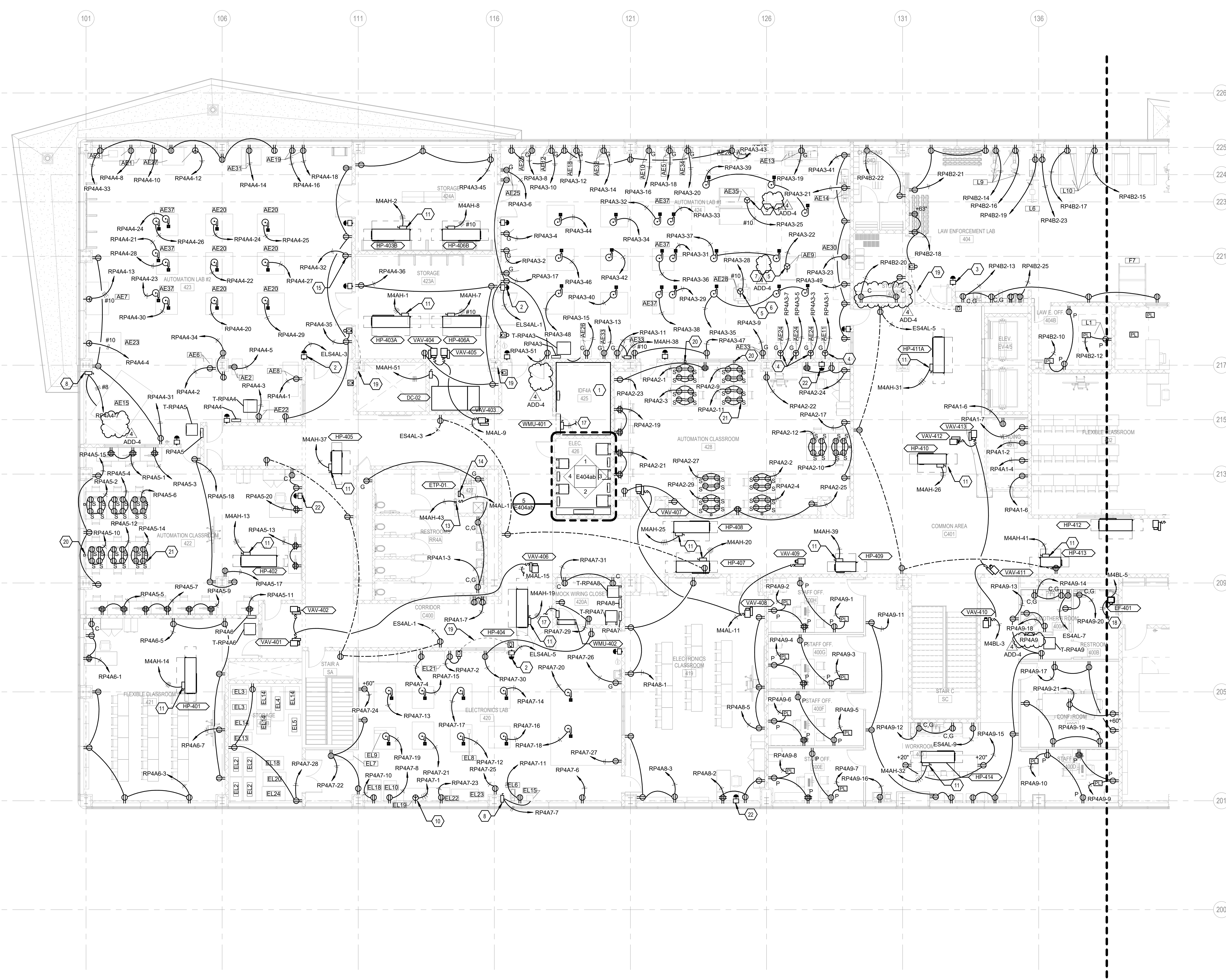
E204a

GENERAL NOTES

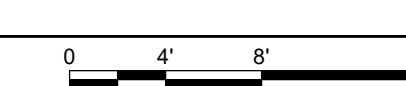
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTIONS OF SPECIALTY EQUIPMENTS. WHERE SPECIALTY EQUIPMENT IS TAGGED ALONG WITH A POWER SOURCE (RECEPTACLE / DISCONNECT SWITCH, ETC.), THE ASSOCIATED POWER SOURCE SHALL SERVE THE TAGGED SPECIALTY EQUIPMENT.
- C. SPECIAL RECEPTACLE NEMA CONFIGURATIONS SHOWN ARE ASSUMED. CONTRACTOR SHALL FIELD COORDINATE AND/OR VERIFY EXACT SPECIAL RECEPTACLE NEMA CONFIGURATION REQUIRED WITH EQUIPMENT SERVED PRIOR TO INSTALLATION.
- D. WHERE EQUIPMENT IS SERVED VIA A HARDWIRED CONNECTION / DISCONNECT SWITCH, ETC., THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO THE EQUIPMENT.

SHEET KEYNOTES

1. ALL CIRCUITING REQUIRED WITHIN IDF ROOMS SHOWN ON ENLARGED SYSTEMS PLANS. REFER TO E400 SERIES DRAWINGS FOR ENLARGED PLANS.
2. ALL EMERGENCY POWER OFF (EPO) BUTTONS IN THIS ROOM/AREA SHALL CONTROL THE SHUNT TRIP CIRCUIT BREAKER(S) WHICH SERVE ELECTRICAL PANELS SERVING THIS ROOM/AREA. REFER TO ELECTRICAL ONE-LINE DIAGRAM, EPO WIRING DIAGRAM DETAIL, AND PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
3. REFER TO SHEET E204B FOR EMERGENCY POWER OFF (EPO) BUTTON REQUIREMENTS FOR THIS ROOM/AREA.
4. ASSUME NEMA 5-30 PLUG CONFIGURATION. FIELD VERIFY OWNER EQUIPMENT REQUIREMENTS.
5. PROVIDE SUSPENDED CEILING MOUNTED RECEPTACLE TO SERVE SPECIALTY EQUIPMENT. REFER TO POWER CORD DROP AT SPECIALTY EQUIPMENT DETAIL FOR ADDITIONAL INFORMATION.
6. ASSUME NEMA L14-30 PLUG CONFIGURATION. FIELD VERIFY OWNER EQUIPMENT REQUIREMENTS.
7. ASSUME NEMA L15-30 PLUG CONFIGURATION. FIELD VERIFY OWNER EQUIPMENT REQUIREMENTS.
8. PROVIDE 208V, 60A, 3P, FUSIBLE SAFETY SWITCH, FUSED AT 55A IN NEMA 1 ENCLOSURE.
9. PROVIDE 3#8, 1#8G, IN 3/4" CONDUIT.
10. ASSUME NEMA L21-20 PLUG CONFIGURATION. FIELD VERIFY OWNER EQUIPMENT REQUIREMENTS.
11. PROVIDE POWER CONNECTION TO INTEGRAL DISCONNECT SWITCH.
12. NOTE NOT USED.
13. PROVIDE JUNCTION BOX ROUGH-IN FOR CONNECTION TO WALL MOUNTED HAND DRYER EQUIPMENT. COORDINATE EXACT JUNCTION BOX AND MOUNTING REQUIREMENTS WITH APPROVED SHOP DRAWINGS.
14. PROVIDE 120V, 15A, 1P TOGGLE SAFETY SWITCH IN NEMA 1 ENCLOSURE.
15. FIELD COORDINATE EXACT MOUNTING HEIGHT WITH REVIEWED SHOP DRAWINGS.
16. NOTE NOT USED.
17. EXTEND CIRCUIT TO ASSOCIATED AC UNIT ON ROOF. COORDINATE EXACT UNIT WITH MECHANICAL DRAWING.
18. EXTEND CIRCUIT THROUGH DEDICATED LIGHTING POWER PACK FOR CONTROL.
19. PROVIDE LOW-VOLTAGE CONNECTION FOR CLASSROOM DOORBELL.
20. PROVIDE JUNCTION BOX TO ROUTE CABLING AS REQUIRED TO SERVE SYSTEMS FURNITURE EQUIPMENT. COORDINATE WITH REVIEWED SHOP DRAWINGS.
21. DEVICES SHOWN ARE IN SYSTEMS FURNITURE. FIELD COORDINATE EXACT LOCATION OF EQUIPMENT.
22. PROVIDE EMERGENCY POWER OFF (EPO) SWITCH AT TEACHER'S DESK. EPO SWITCH SHALL BE INTEGRATED WITH ADDITIONAL EPO'S IN RELATED, ADJACENT LAB. REFER TO EPO SWITCH DETAIL FOR MORE INFORMATION.

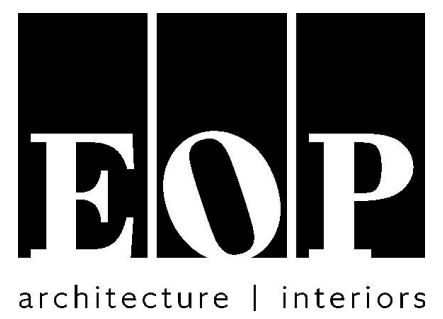


1 FOURTH FLOOR PLAN A - POWER
SCALE: 1/8" = 1'-0"



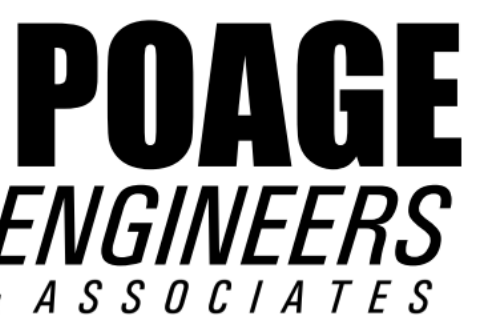
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REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4

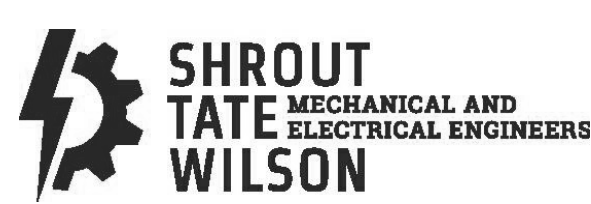


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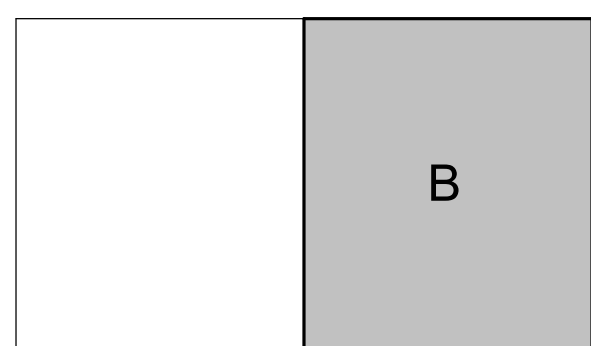


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KEYPLAN

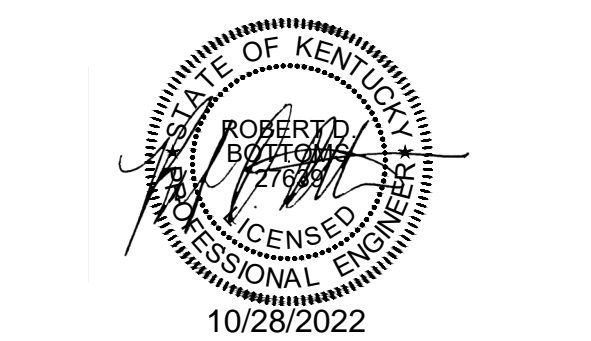


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**FOURTH FLOOR PLAN
B - POWER**

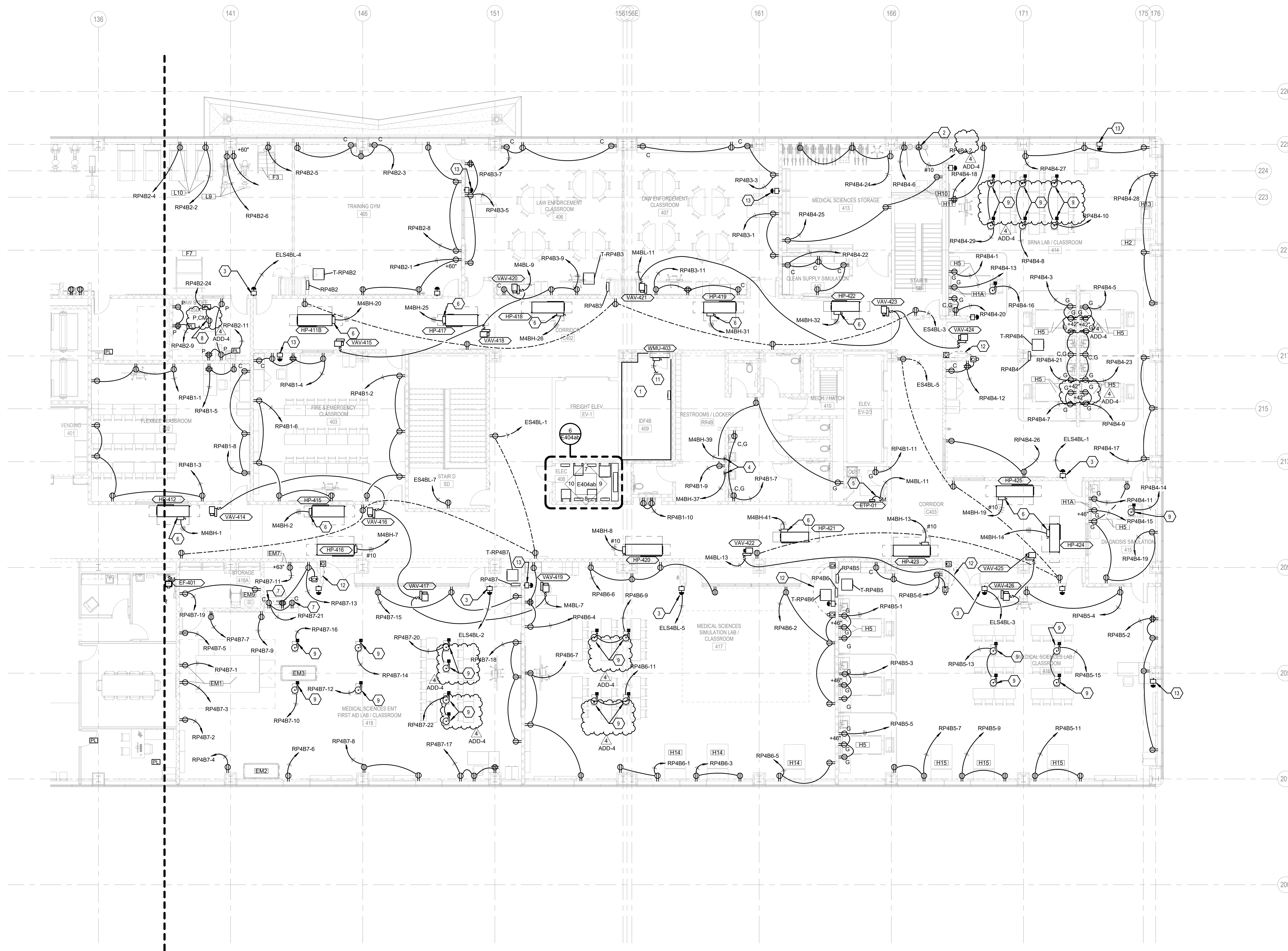
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E204b

GENERAL NOTES

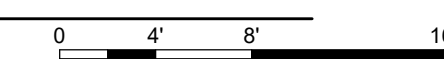
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTIONS OF SPECIALTY EQUIPMENTS. WHERE SPECIALTY EQUIPMENT IS TAGGED ALONG WITH A POWER SOURCE (RECEPTACLE / DISCONNECT SWITCH, ETC.), THE ASSOCIATED POWER SOURCE SHALL SERVE THE TAGGED SPECIALTY EQUIPMENT.
- C. SPECIAL RECEPTACLE NEMA CONFIGURATIONS SHOWN ARE ASSUMED. CONTRACTOR SHALL FIELD COORDINATE AND/OR VERIFY EXACT SPECIAL RECEPTACLE NEMA CONFIGURATION REQUIRED WITH EQUIPMENT SERVED PRIOR TO INSTALLATION.
- D. WHERE EQUIPMENT IS SERVED VIA A HARDWIRED CONNECTION / DISCONNECT SWITCH, ETC., THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO THE EQUIPMENT.

SHEET KEYNOTES

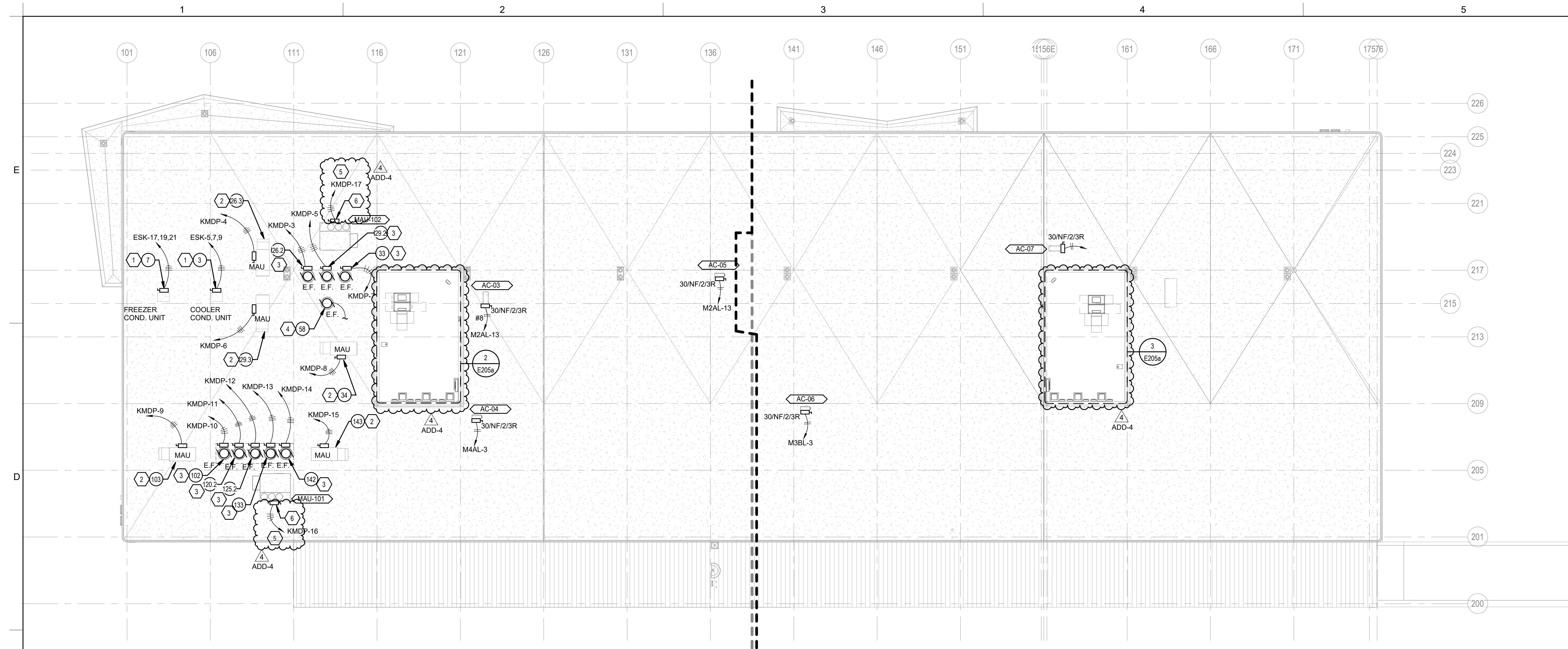
1. ALL CIRCUITING REQUIRED WITHIN IDF ROOM AS SHOWN ON ENLARGED SYSTEMS PLANS. REFER TO E300 SERIES DRAWINGS FOR ENLARGED PLANS.
2. ASSUME NEMA 14-30 PLUG CONFIGURATION. FIELD VERIFY OWNER EQUIPMENT REQUIREMENTS.
3. ALL EMERGENCY POWER OFF (EPO) BUTTONS IN THIS ROOM/AREA SHALL CONTROL THE SHUNT TRIP CIRCUIT BREAKER(S) WHICH SERVE ELECTRICAL PANELS SERVING THIS ROOM/AREA. REFER TO ELECTRICAL ONE-LINE DIAGRAM, EPO WIRING DIAGRAM DETAIL, AND PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS.
4. PROVIDE JUNCTION BOX ROUGH-IN FOR CONNECTION TO WALL MOUNTED HAND DRYER EQUIPMENT. COORDINATE EXACT JUNCTION BOX AND MOUNTING REQUIREMENTS WITH APPROVED SHOP DRAWINGS.
5. PROVIDE 120V, 15A, 1P TOGGLE SAFETY SWITCH IN NEMA 1 ENCLOSURE.
6. PROVIDE POWER CONNECTION TO INTEGRAL DISCONNECT SWITCH.
7. MOUNT RECEPTACLE HORIZONTALLY, FLUSH WITH CASEWORK.
8. PROVIDE CEILING MOUNTED RECEPTACLE FOR CONNECTION TO CEILING MOUNTED PROJECTOR. MOUNT RECEPTACLE FLUSH WITH THE CEILING TILE.
9. PROVIDE RECESSED CEILING MOUNTED CORD EXTENSION REEL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. PROVIDE #10, #110G, IN 3/4" CONDUIT.
11. EXTEND CIRCUIT TO ASSOCIATED AC UNIT ON ROOF. COORDINATE EXACT UNIT WITH MECHANICAL DRAWING.
12. PROVIDE LOW-VOLTAGE CONNECTION FOR CLASSROOM DOORBELL.
13. PROVIDE EMERGENCY POWER OFF (EPO) SWITCH AT TEACHER'S DESK. EPO SWITCH SHALL BE INTEGRATED WITH ADDITIONAL EPO'S IN RELATED ADJACENT LAB. REFER TO EPO SWITCH DETAIL FOR MORE INFORMATION.



1 FOURTH FLOOR PLAN B - POWER
SCALE: 1/8" = 1'-0"



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GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO ARCHITECTURAL DRAWINGS FOR DESCRIPTIONS OF SPECIALTY EQUIPMENTS. WHERE SPECIALTY EQUIPMENT IS TAGGED ALONG WITH A POWER SOURCE (RECEPTACLE / DISCONNECT SWITCH, ETC.), THE ASSOCIATED POWER SOURCE SHALL SERVE THE TAGGED SPECIALTY EQUIPMENT.
- C. SPECIAL RECEPTACLE NEMA CONFIGURATIONS SHOWN ARE ASSUMED. CONTRACTOR SHALL FIELD COORDINATE AND/OR VERIFY EXACT SPECIAL RECEPTACLE NEMA CONFIGURATION REQUIRED WITH EQUIPMENT SERVED PRIOR TO INSTALLATION.
- D. WHERE EQUIPMENT IS SERVED VIA A HARDWIRED CONNECTION / DISCONNECT SWITCH, ETC., THE CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO THE EQUIPMENT.

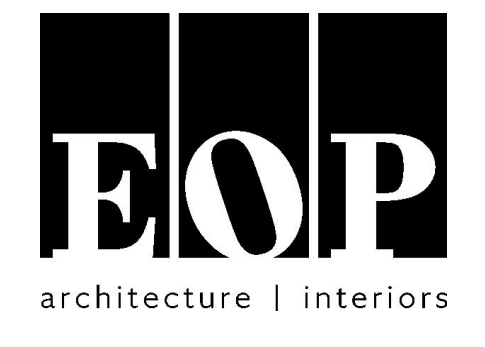
SHEET KEYNOTES

- 1. PROVIDE A 30A, NEMA 3R NON-FUSED DISCONNECT FOR THE 208V-3PH CONDENSING UNIT. REFER TO ELECTRICAL CULINARY EQUIPMENT SCHEDULE ON SHEET E408 FOR ADDITIONAL INFORMATION.
- 2. PROVIDE A 30A, NEMA 3R NON-FUSED DISCONNECT FOR THE 480V-3PH MAKE-UP AIR UNIT. REFER TO ELECTRICAL CULINARY EQUIPMENT SCHEDULE ON SHEET E408 FOR ADDITIONAL INFORMATION.
- 3. PROVIDE A 30A, NEMA 3R NON-FUSED DISCONNECT FOR THE 480V-3PH EXHAUST FAN. REFER TO ELECTRICAL CULINARY EQUIPMENT SCHEDULE ON SHEET E408 FOR ADDITIONAL INFORMATION.
- 4. PROVIDE A 20A, 120V, NEMA 3R, MOTOR RATED SWITCH FOR EXHAUST FAN. EXHAUST FAN INTERLOCKS WITH CONDENSATE HOOD #57.
- 5. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR DISCONNECT SWITCH AND CIRCUIT SIZE.
- 6. PROVIDE POWER CONNECTION TO INTEGRAL DISCONNECT SWITCH.

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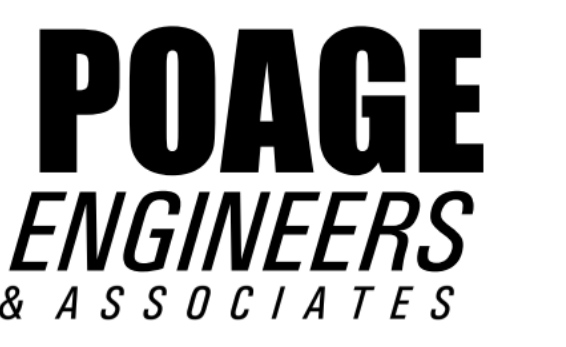
BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
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4	10/28/22	ADDENDUM 4

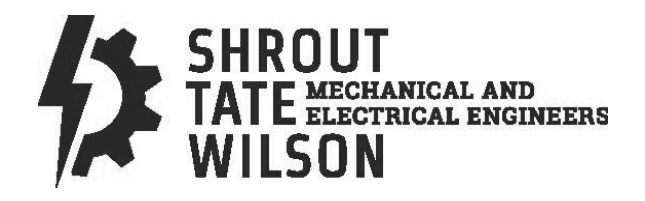


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 MEP Engineers
 628 Winchester Rd.
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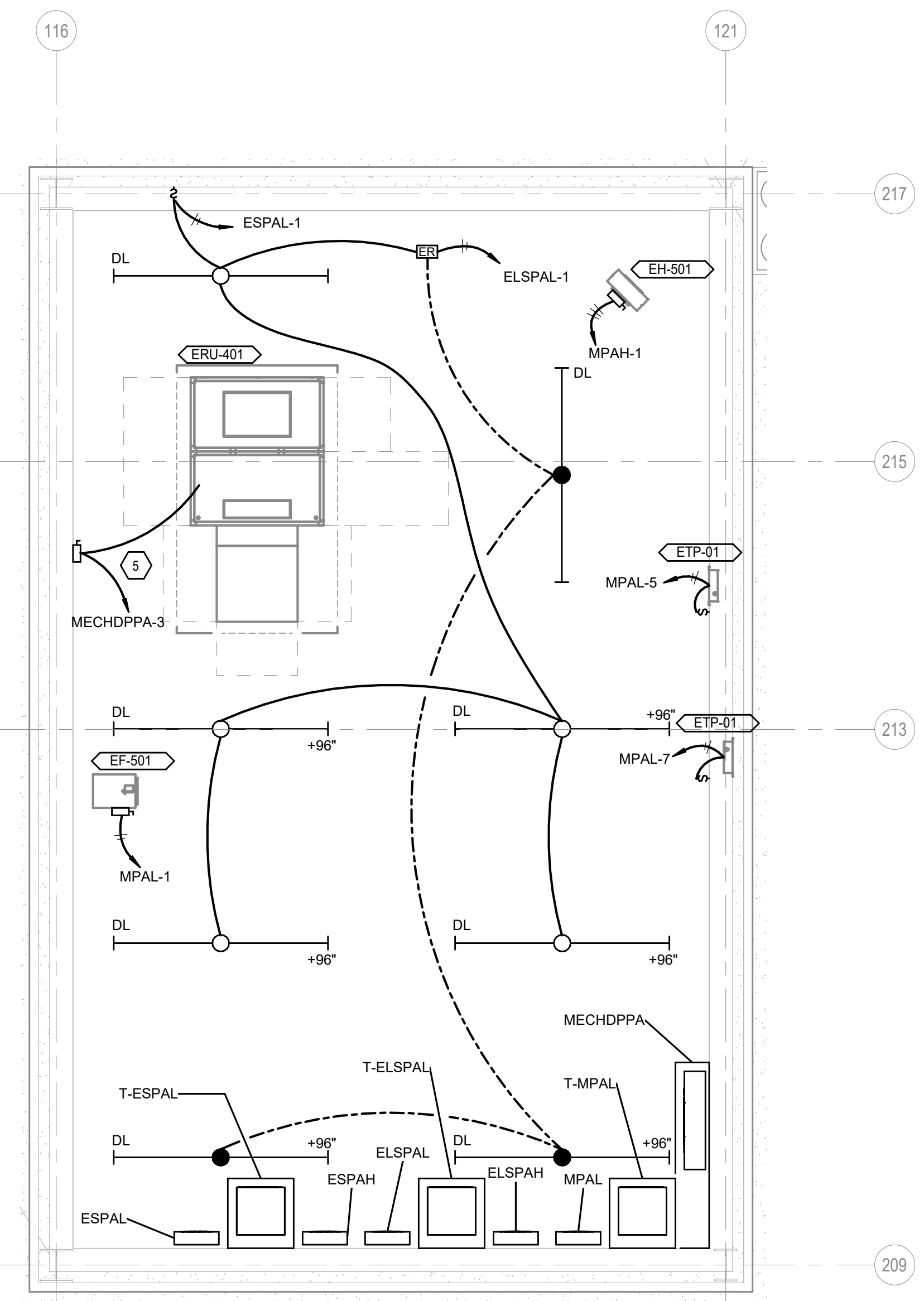
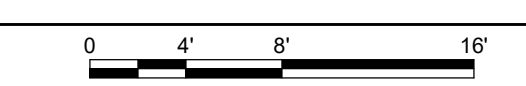
Job Number 2150
 Drawn By JHS
 Checked By RDB
 Date 09/28/2022



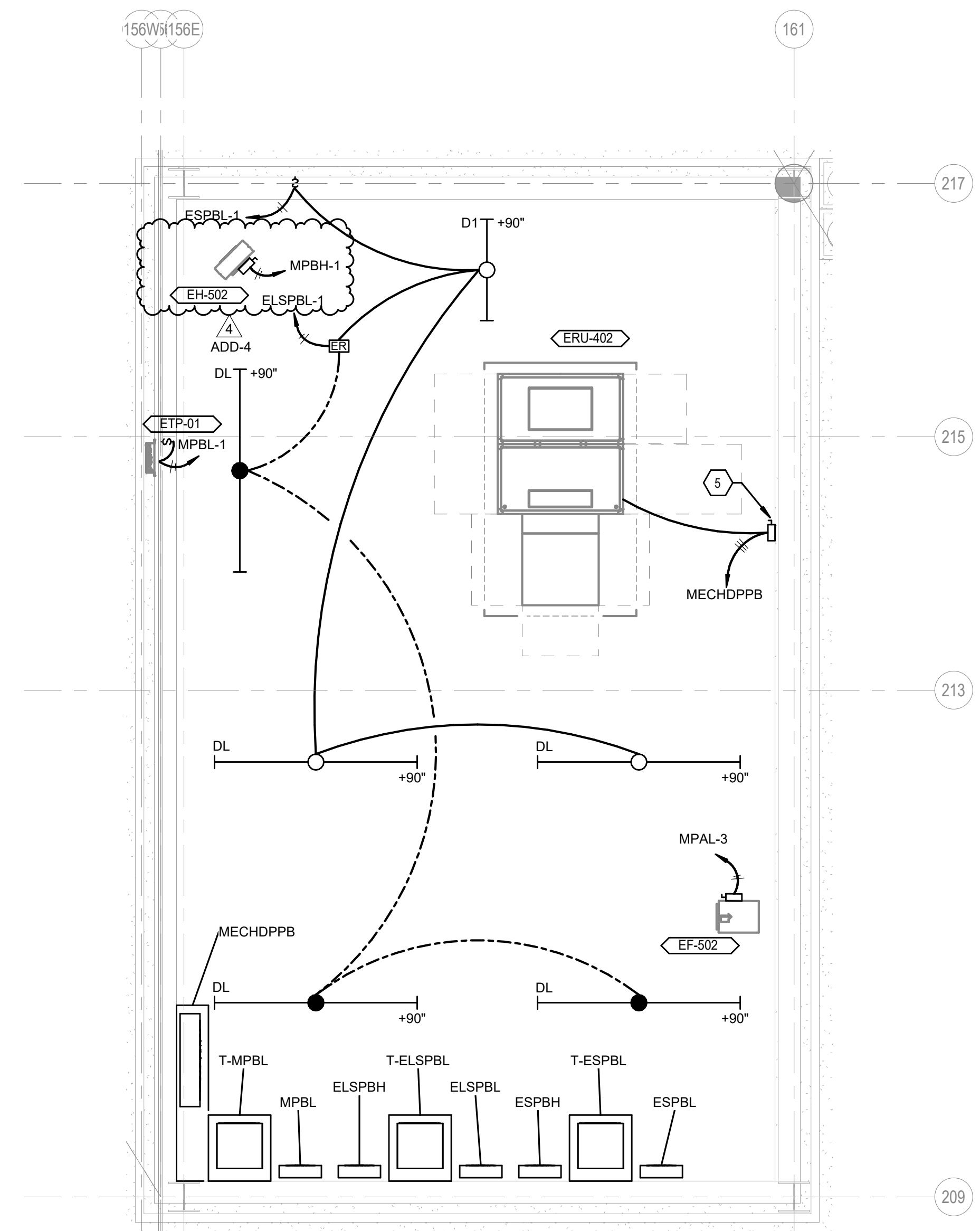
OVERALL ROOF PLAN - POWER

ADD #4
 10/28/2022
E205a

1 ENLARGED PENTHOUSE B
 SCALE: 1/16" = 1'-0"

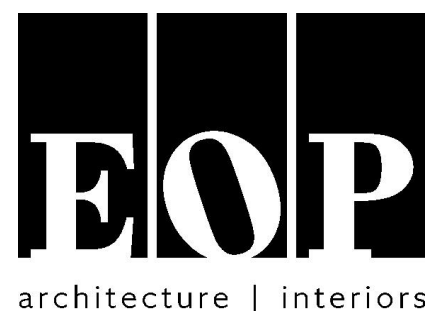


2 ENLARGED PENTHOUSE A - ELECTRICAL
 SCALE: 1/4" = 1'-0"



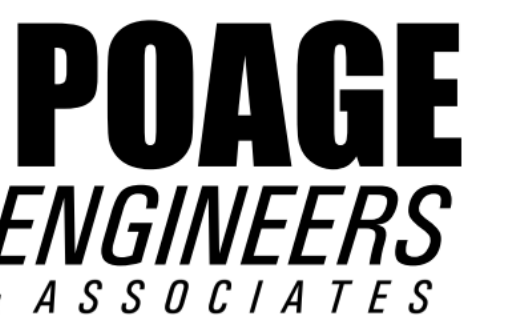
3 ENLARGED PENTHOUSE B - ELECTRICAL
 SCALE: 1/4" = 1'-0"

REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



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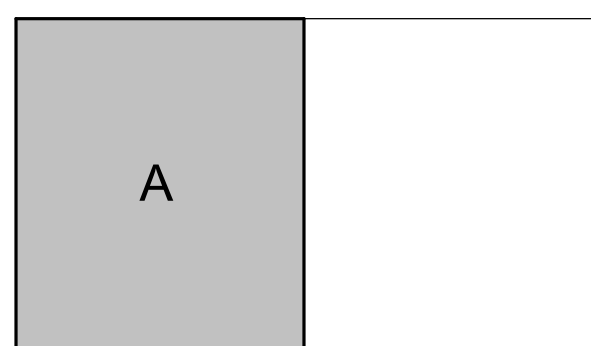


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MEP Engineers
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KEYPLAN

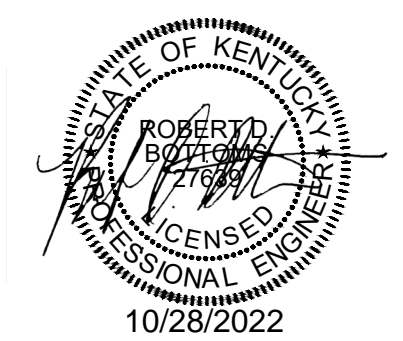


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FIRST FLOOR PLAN A - SYSTEMS

ADD #4
10/28/2022

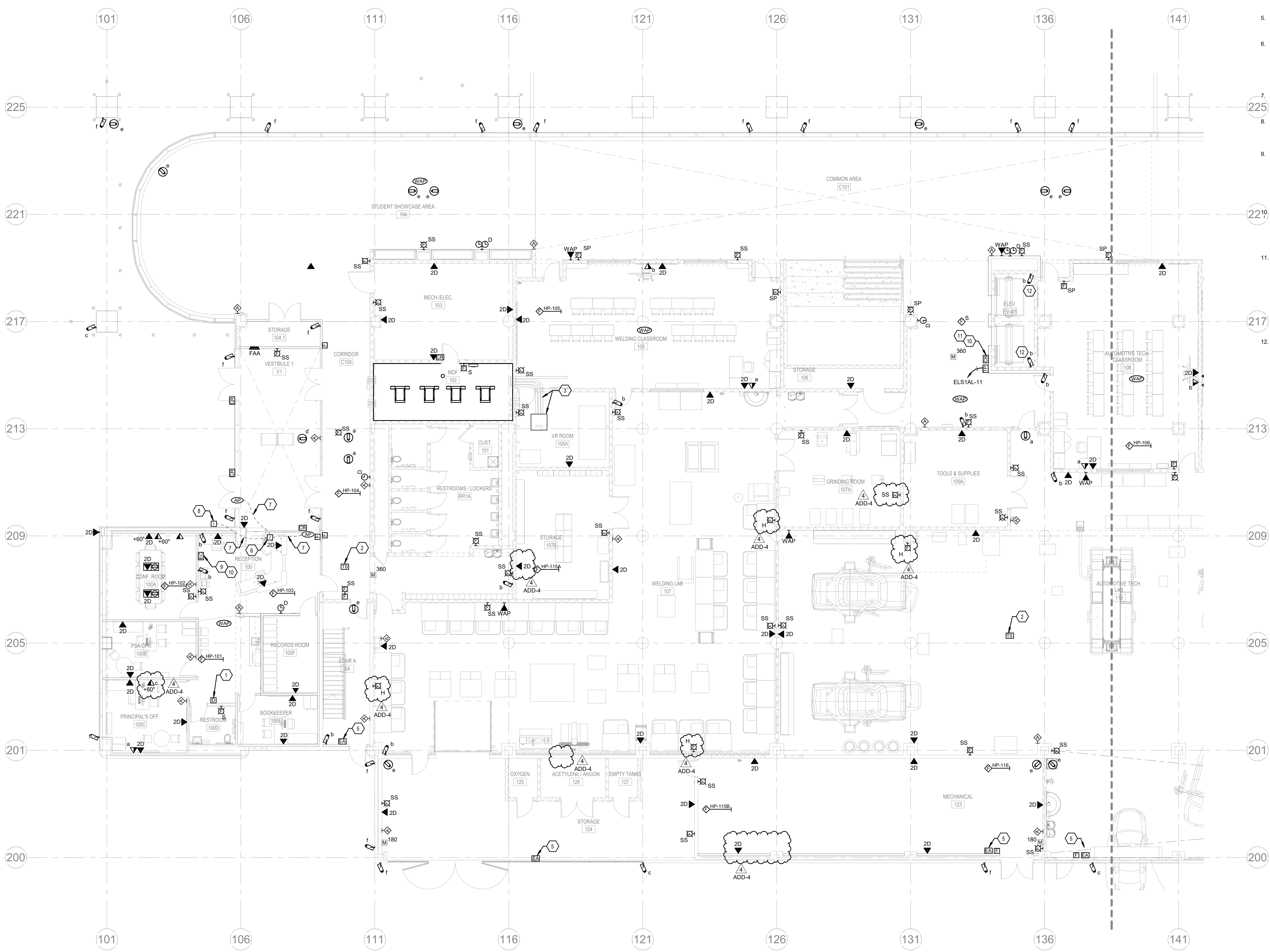
E301a

GENERAL NOTES

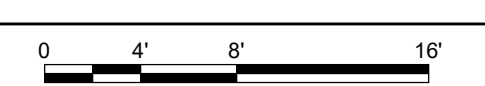
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO DOOR RISERS FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.

SHEET KEYNOTES

- 1. PROVIDE PANIC BUTTON INTEGRATED WITH SECURITY SYSTEM. REFER TO SPECIFICATIONS.
- 2. PROVIDE FIRE ALARM CONNECTION TO TAMPER SWITCH. COORDINATE QUANTITY AND LOCATION WITH FIRE PROTECTION CONTRACTOR.
- 3. COMMUNICATION RACEWAY. REFER TO DETAIL.
- 4. PROVIDE RECESSED, CEILING MOUNTED HD-BASET DOCUMENT CAMERA. REFER TO DETAIL AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 5. PROVIDE EXIT ALARM. INTEGRATE WITH DOOR POSITION SWITCH(ES). REFER TO DOOR RISER DIAGRAMS ON E504 FOR MORE INFORMATION.
- 6. PROVIDE SECURE ENTRY SYSTEM MASTER STATION WITH TWO-WAY COMMUNICATION AND THREE(3) DOOR RELEASE BUTTONS. CONNECT TO DOOR POWER SUPPLIES AS REQUIRED TO PROVIDE REMOTE RELEASE OF EXTERIOR AND INTERIOR DOORS AS SHOWN. REFER TO SECURE DOOR ENTRY AND DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 7. PROVIDE CONDUIT AND CONNECTION BETWEEN REMOTE DOOR RELEASE PUSH BUTTON AND DOOR POWER SUPPLY. PROVIDE CABLING PER MANUFACTURERS INSTRUCTIONS.
- 8. PROVIDE SECURE ENTRY SYSTEM WEATHERPROOF AND VANDAL RESISTANT CALL BUTTON. REFER TO SECURE DOOR ENTRY AND DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 9. PROVIDE A MASTER CALL CENTER WITH PHONE DIALER, HANDSET, AUDIBLE AND VISUAL NOTIFIERS, ALPHA REFUGE OR EQUAL. MASTER CALL CENTER SHALL BE INSTALLED IN A RECESSED MOUNT WITH LOCKABLE COVER. MASTER CALL CENTER CABINET SHALL BE COMPATIBLE WITH FIREMAN'S LOCK. COORDINATE FINAL LOCATION WITH THE LOCAL FIRE DEPARTMENT. PROVIDE CAT6A CABLING FOR VOICE CONNECTIONS FROM THE MDF/IDF.
- 10. PROVIDE SYSTEM WITH A TIMED AUTOMATIC CAPABILITY TO A MONITORING LOCATION OR TO DIAL OUT TO 9-1-1 AS WELL AS FOUR ADDITIONAL REMOTE PHONE NUMBERS. SYSTEM SHALL BE PROVIDED WITH VOIP CAPABILITY OPTIONS. ALL LOW-VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT. INSTALL PER ALL RELATED CODES AND STANDARDS.
- 11. PROVIDE A TWO-WAY COMMUNICATION CALL BOX. ALPHA REFUGE OR EQUAL. CALL BOX SHALL INCLUDE VISUAL CALL NOTIFICATION, INTEGRAL BATTERY BACKUP, AND A RECESSED BOX WITH STAINLESS STEEL COVER. PROVIDE WIRING BETWEEN CALL BOXES, TO THE POWER SUPPLY, AND TO THE MASTER CALL STATION PER MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS. ADJACENT TO CALL BUTTON. PROVIDE INSTRUCTIONS AND LOCATION SIGNAGES WITH BLACK LETTERING AS WELL AS BRAILLE. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT, OWNER/ENGINEER, AND ALL TRADES PRIOR TO INSTALLATION.
- 12. PROVIDE CAMERA IN ELEVATOR CAB WITH TRAVELING CABLE.

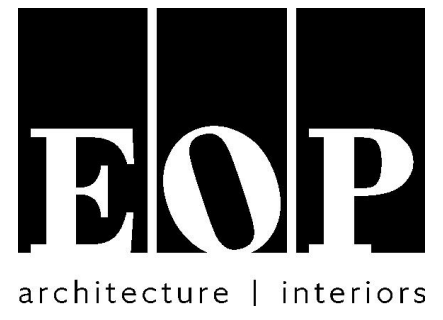


1 FIRST FLOOR PLAN A - SYSTEMS
SCALE: 1/8" = 1'-0"



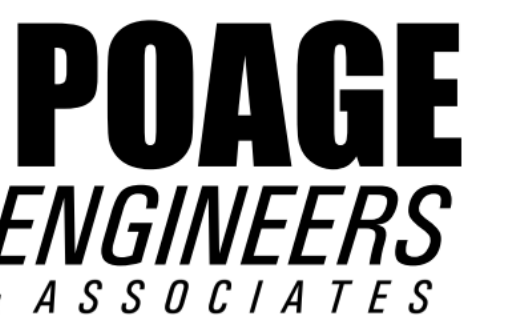
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REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



PROJECT TEAM

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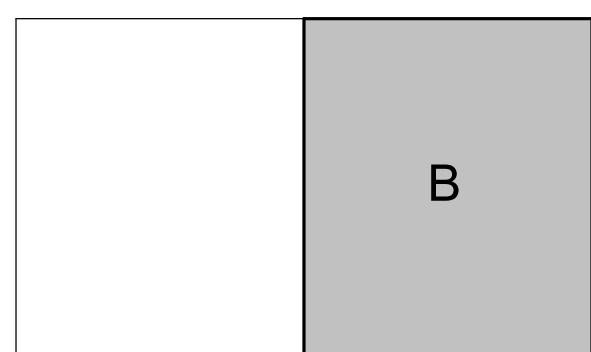


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KEYPLAN

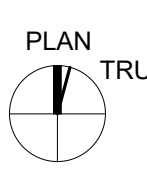


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Date 09/28/2022



FIRST FLOOR PLAN B - SYSTEMS

ADD #4
10/28/2022

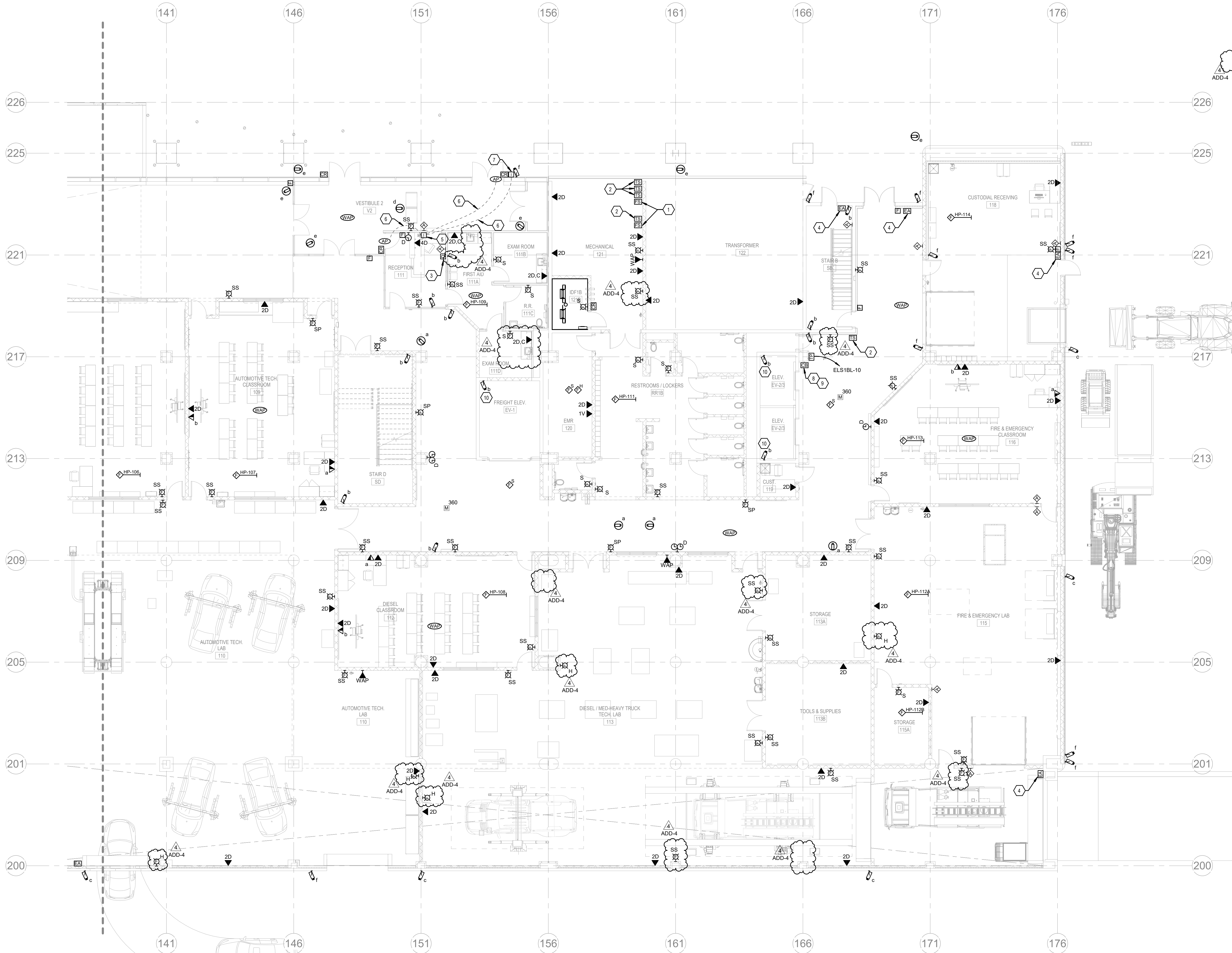
E301b

GENERAL NOTES

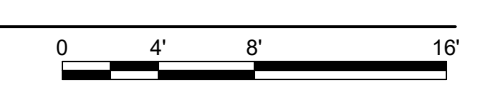
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO DOOR RISERS FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.

SHEET KEYNOTES

1. PROVIDE FIRE ALARM CONNECTION TO FLOW SWITCH. COORDINATE QUANTITY AND LOCATION WITH FIRE PROTECTION CONTRACTOR.
2. PROVIDE FIRE ALARM CONNECTION TO TAMPER SWITCH. COORDINATE QUANTITY AND LOCATION WITH FIRE PROTECTION CONTRACTOR.
3. PROVIDE PANIC BUTTON INTEGRATED WITH SECURITY SYSTEM. REFER TO SPECIFICATIONS.
- ADD-4 4. PROVIDE EXIT ALARM. INTEGRATE WITH DOOR POSITION SWITCH(ES). REFER TO DOOR RISER DIAGRAMS ON E504 FOR MORE INFORMATION.
5. PROVIDE SECURE ENTRY SYSTEM MASTER STATION WITH TWO-WAY COMMUNICATION AND THREE(3) DOOR RELEASE BUTTONS. CONNECT TO DOOR POWER SUPPLIES AS REQUIRED TO PROVIDE REMOTE RELEASE OF EXTERIOR AND INTERIOR DOORS AS SHOWN. REFER TO SECURE DOOR ENTRY AND DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. PROVIDE CONDUIT AND CONNECTION BETWEEN REMOTE DOOR RELEASE PUSH BUTTON AND DOOR POWER SUPPLY. PROVIDE CABLING PER MANUFACTURERS INSTRUCTIONS.
7. PROVIDE SECURE ENTRY SYSTEM WEATHERPROOF AND VANDAL RESISTANT CALL BUTTON. REFER TO SECURE DOOR ENTRY AND DOOR HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. PROVIDE A TWO-WAY COMMUNICATION CALL BOX. ALPHA REFUGE OR EQUAL. CALL BOX SHALL INCLUDE VISUAL CALL NOTIFICATION, INTEGRAL BATTERY BACKUP, AND A RECESSED BOX WITH STAINLESS STEEL COVER. PROVIDE WIRING BETWEEN CALL BOXES, TO THE POWER SUPPLY, AND TO THE MASTER CALL STATION PER MANUFACTURERS REQUIREMENTS AND RECOMMENDATIONS. ADJACENT TO CALL BUTTON, PROVIDE INSTRUCTIONS AND LOCATION SIGNAGES WITH BLACK LETTERING AS WELL AS BRILLE. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT, OWNER/ENGINEER, AND ALL TRADES PRIOR TO INSTALLATION.
9. PROVIDE SYSTEM WITH A TIMED AUTOMATIC CAPABILITY TO A MONITORING LOCATION OR TO DIAL OUT TO 9-1-1 AS WELL AS FOUR ADDITIONAL REMOTE PHONE NUMBERS. SYSTEM SHALL BE PROVIDED WITH VOIP CAPABILITY OPTIONS. ALL LOW-VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT. INSTALL PER ALL RELATED CODES AND STANDARDS.
10. PROVIDE CAMERA IN ELEVATOR CAB WITH TRAVELING CABLE.



1 FIRST FLOOR PLAN B - SYSTEMS
SCALE: 1/8" = 1'-0"



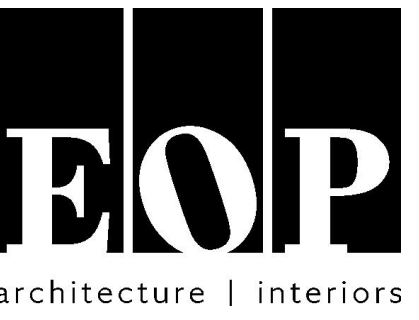
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REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
4	10/28/22 ADDENDUM 4



PROJECT TEAM

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Lexington, KY 40504

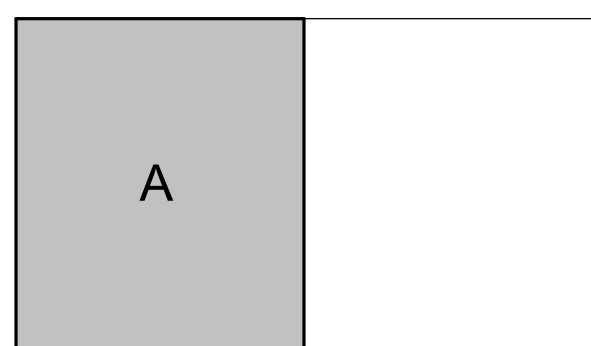


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Lexington, KY 40505



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KEYPLAN



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Drawn By JHS
Checked By RDB
Date 09/28/2022



**SECOND FLOOR PLAN
A - SYSTEMS**

ADD #4
10/28/2022

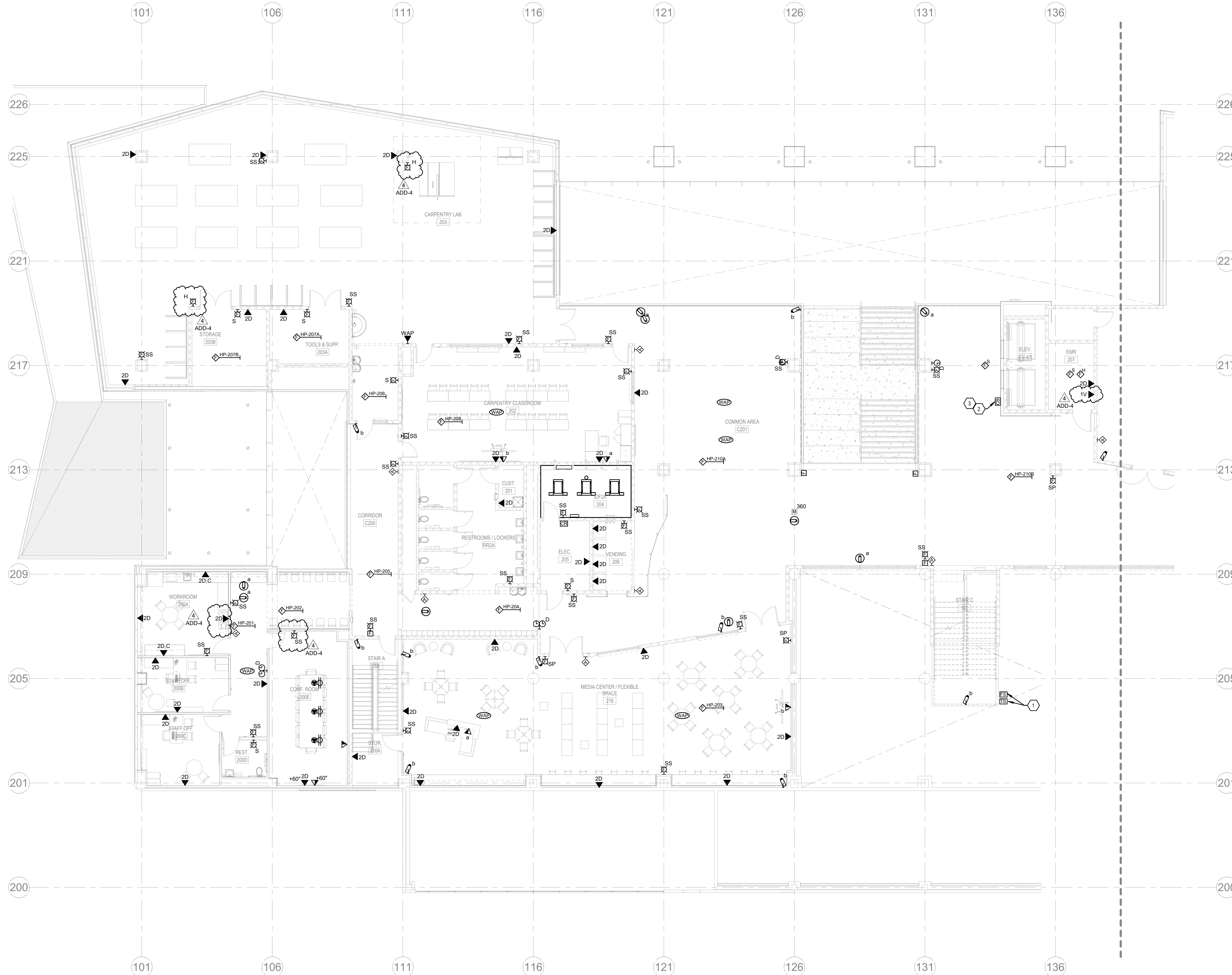
E302a

GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO DOOR RISERS FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.

SHEET KEYNOTES

1. PROVIDE FIRE ALARM CONNECTION TO FLOW AND TAMPER SWITCHES, COORDINATE QUANTITY AND LOCATION WITH FIRE PROTECTION CONTRACTOR.
2. PROVIDE A TWO-WAY COMMUNICATION CALL BOX, ALPHA REFUGE OR EQUAL. CALL BOX SHALL INCLUDE VISUAL CALL NOTIFICATION, INTEGRAL BATTERY BACKUP, AND A RECESSED BOX WITH STAINLESS STEEL COVER. PROVIDE WIRING BETWEEN CALL BOXES, TO THE POWER SUPPLY, AND TO THE MASTER CALL STATION PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. ADJACENT TO CALL BUTTON, PROVIDE INSTRUCTIONS AND LOCATION SIGNAGES WITH BLACK LETTERING AS WELL AS BRAILLE. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT, OWNER/ENGINEER, AND ALL TRADES PRIOR TO INSTALLATION.
3. PROVIDE SYSTEM WITH A TIMED AUTOMATIC CAPABILITY TO A MONITORING LOCATION OR TO DIAL OUT TO 9-1-1 AS WELL AS FOUR ADDITIONAL REMOTE PHONE NUMBERS. SYSTEM SHALL BE PROVIDED WITH VOIP CAPABILITY OPTIONS. ALL LOW-VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT. INSTALL PER ALL RELATED CODES AND STANDARDS.

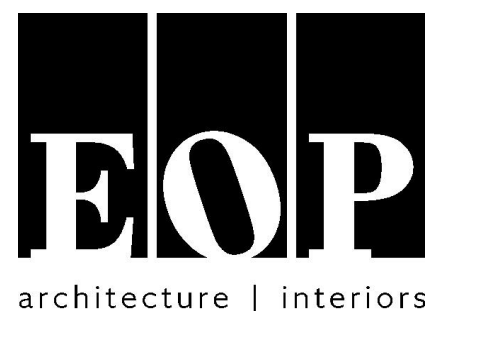


1 SECOND FLOOR PLAN A - SYSTEMS
SCALE: 1/8" = 1'-0"



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REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4



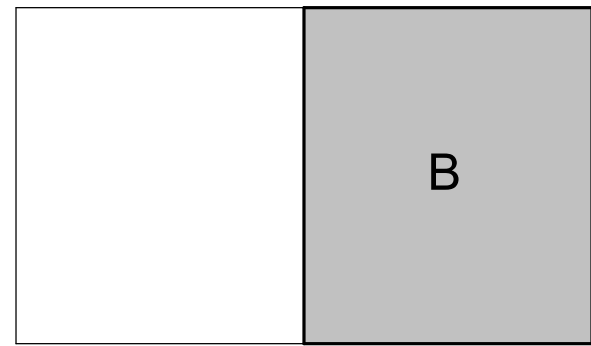
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**SECOND FLOOR PLAN
B - SYSTEMS**

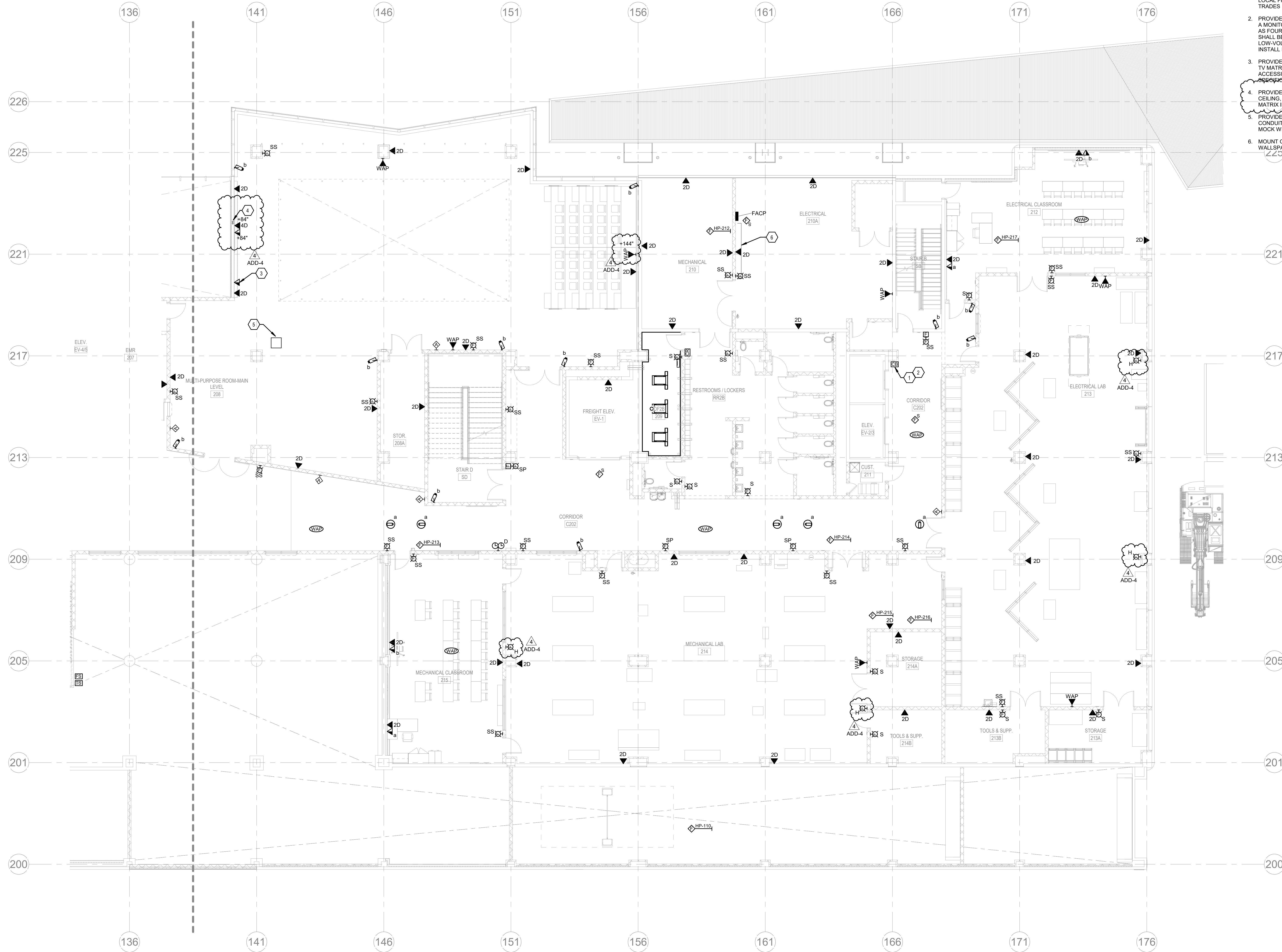
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10/28/2022
E302b

GENERAL NOTES

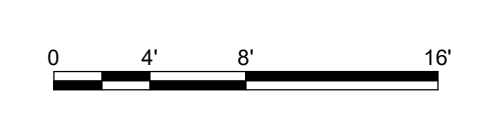
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
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SHEET KEYNOTES

1. PROVIDE A TWO-WAY COMMUNICATION CALL BOX, ALPHA REFUGE OR EQUAL. CALL BOX SHALL INCLUDE VISUAL CALL NOTIFICATION, INTEGRAL BATTERY BACKUP, AND A RECESSED BOX WITH STAINLESS STEEL COVER. PROVIDE WIRING BETWEEN CALL BOXES, TO THE POWER SUPPLY, AND TO THE MASTER CALL STATION PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. ADJACENT TO CALL BUTTON, PROVIDE INSTRUCTIONS AND LOCATION SIGNAGES WITH BLACK LETTERING AS WELL AS BRAILLE. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT, OWNER/ENGINEER, AND ALL TRADES PRIOR TO INSTALLATION.
2. PROVIDE SYSTEM WITH A TIMED AUTOMATIC CAPABILITY TO A MONITORING LOCATION OR TO DIAL OUT TO 8-1-1 AS WELL AS FOUR ADDITIONAL REMOTE PHONE NUMBERS. SYSTEM SHALL BE PROVIDED WITH VOIP CAPABILITY OPTIONS. ALL LOW-VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT. INSTALL PER ALL RELATED CODES AND STANDARDS.
3. PROVIDE 50FT 4K HDMI CABLE BETWEEN THIS LOCATION AND TV MATRIX. THIS ROOM. COIL EXCESS CABLE ABOVE ACCESSIBLE CEILING. REFER TO DETAIL AND ACCESSIBLE CEILING FOR INFORMATION.
4. PROVIDE TWO(2) 3" CONDUIT STUB OUTS ABOVE ACCESSIBLE CEILING, FROM BEHIND TV MATRIX, TERMINATE BEHIND TV MATRIX IN ACCESSIBLE JUNCTION BOX.
5. PROVIDE 24"x24"x8" PULL-BOX ABOVE CEILING. (2) 4" CONDUIT SHALL BE INSTALLED FROM THIS PULL-BOX TO MOCK WIRING CLOSET 312A.
6. MOUNT ONLY FIRE ALARM EQUIPMENT WITHIN THIS WALLSPACE.



1 SECOND FLOOR PLAN B - SYSTEMS
SCALE: 1/8" = 1'-0"



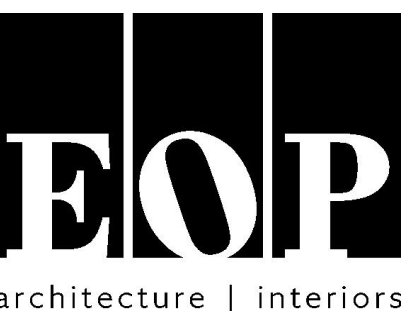
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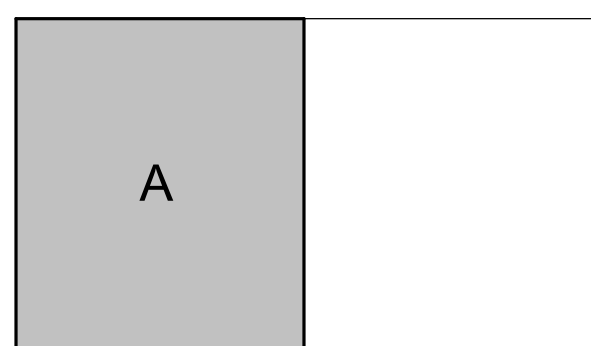


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KEYPLAN

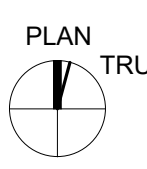


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THIRD FLOOR PLAN A - SYSTEMS

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10/28/2022

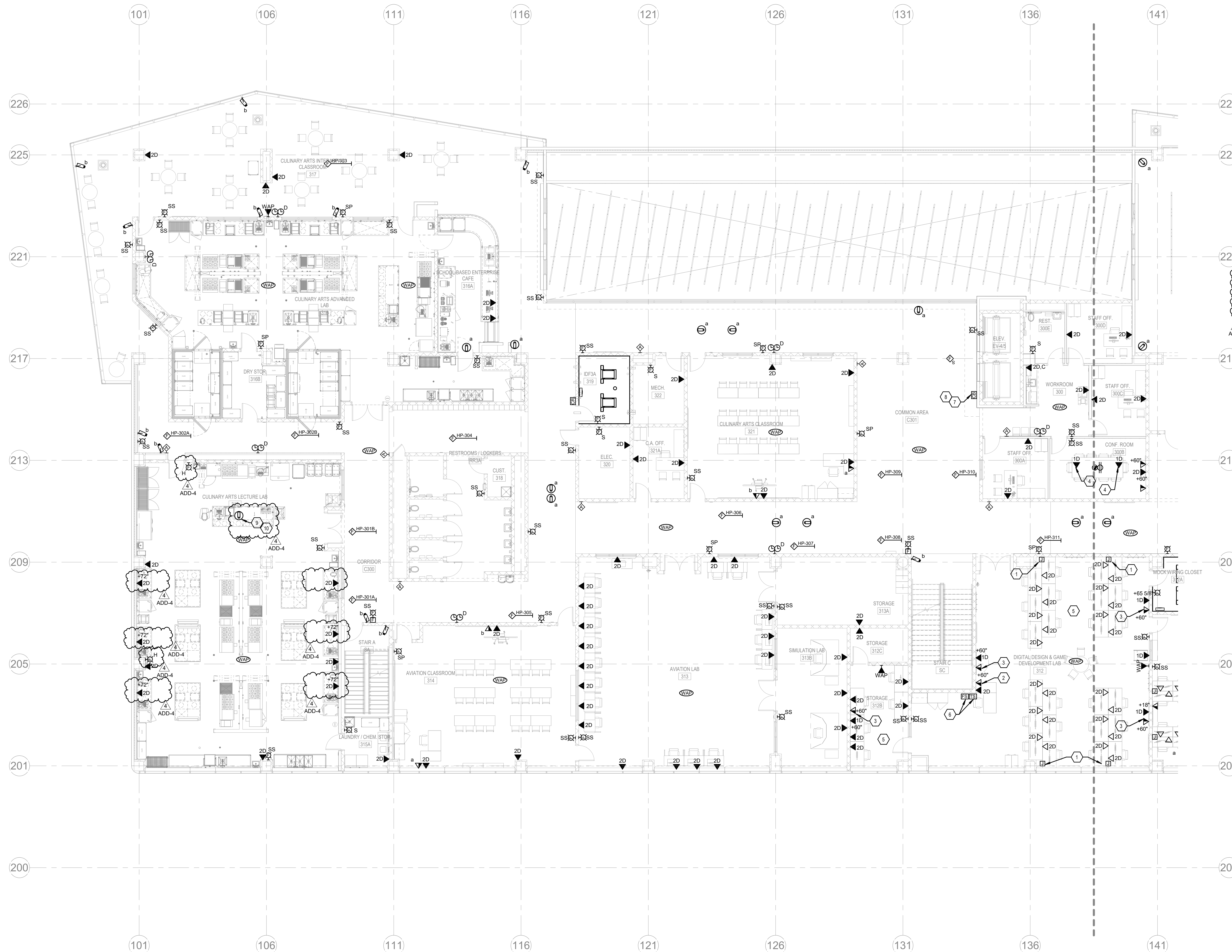
E303a

GENERAL NOTES

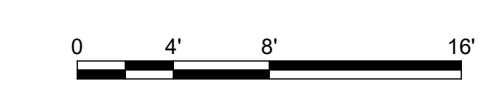
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO DOOR RISERS FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.

SHEET KEYNOTES

1. PROVIDE 4"x4"x4" JUNCTION BOX FOR ROUTING OF CAT6 CABLING THROUGH FURNITURE.
2. PROVIDE HDMI 1X4 ENCODER FOR TEACHER DISPLAY REPLICATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PROVIDE HDMI DECODER MOUNTED BEHIND DISPLAY. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION IN THE FIELD.
4. ROUTE CAT6 CABLING THROUGH FLOOR BOX. THIS ROOM. COORDINATE MOUNTING AND ROUTING REQUIREMENTS WITH CASWORK.
5. ALL DATA PORTS WITHIN ROOMS 312 AND 312B SHALL BE SERVED FROM THE DATA FRAME (DF3-A) LOCATED IN ROOM 312A VIA CATEGORY 6A CABLING.
6. PROVIDE FIRE ALARM CONNECTION TO FLOW AND TAMPER SWITCH(ES). COORDINATE QUANTITY AND LOCATION WITH FIRE PROTECTION CONTRACTOR.
7. PROVIDE A TWO-WAY COMMUNICATION CALL BOX. ALPHA REFUGE OR EQUAL. CALL BOX SHALL INCLUDE VISUAL CALL NOTIFICATION, INTEGRAL BATTERY BACKUP, AND A RECESSED BOX WITH STAINLESS STEEL COVER. PROVIDE WIRING BETWEEN CALL BOXES, TO THE POWER SUPPLY, AND TO THE MASTER CALL STATION PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. ADJACENT TO CALL BUTTON. PROVIDE INSTRUCTIONS AND LOCATION SIGNAGES WITH BLACK LETTERING AS WELL AS BRAILLE. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT, OWNER/ENGINEER, AND ALL TRADES PRIOR TO INSTALLATION.
8. PROVIDE SYSTEM WITH A TIMED AUTOMATIC CAPABILITY TO A MONITORING LOCATION OR TO DIAL OUT TO 9-1-1 AS WELL AS FOUR ADDITIONAL REMOTE PHONE NUMBERS. SYSTEM SHALL BE PROVIDED WITH VOIP CAPABILITY OPTIONS. ALL LOW-VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT. INSTALL PER ALL RELATED CODES AND STANDARDS.
9. PROVIDE RECESSED CEILING MOUNTED DOCUMENT CAMERA, MOUNTED DIRECTLY ABOVE TEACHING COUNTER. COORDINATE EXACT LOCATION WITH CASWORK CONTRACTOR. VADDIO D000CAM 2D H0B1 OR EQUAL.
10. PROVIDE SURFACE MOUNTED HDMI OVER IP ENCODER. VISIONARY 4100 OR EQUAL.



1 THIRD FLOOR PLAN A - SYSTEMS
SCALE: 1/8" = 1'-0"



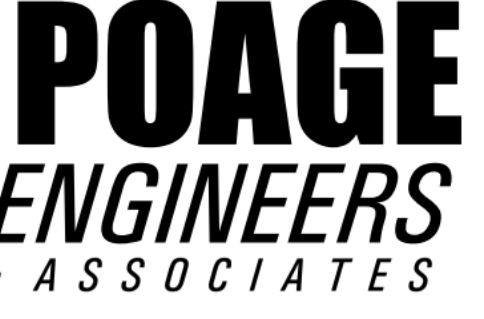
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REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
3	10/21/22 ADDENDUM 3
4	10/28/22 ADDENDUM 4

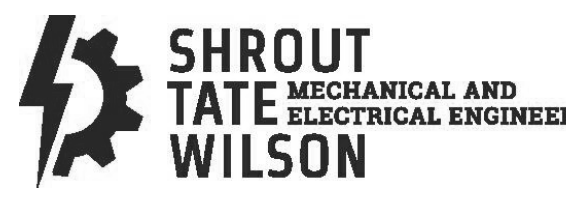


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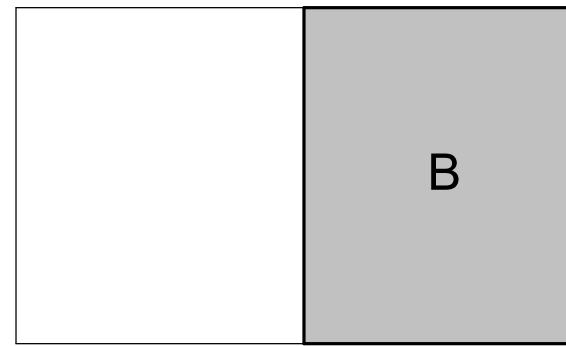


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KEYPLAN

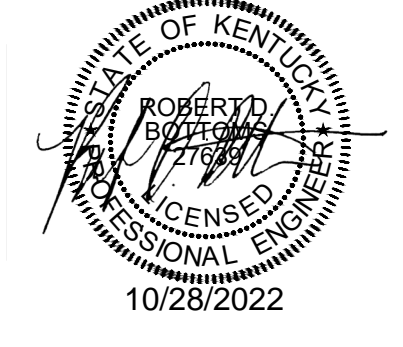
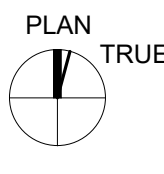


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Date 09/28/2022



THIRD FLOOR PLAN B - SYSTEMS

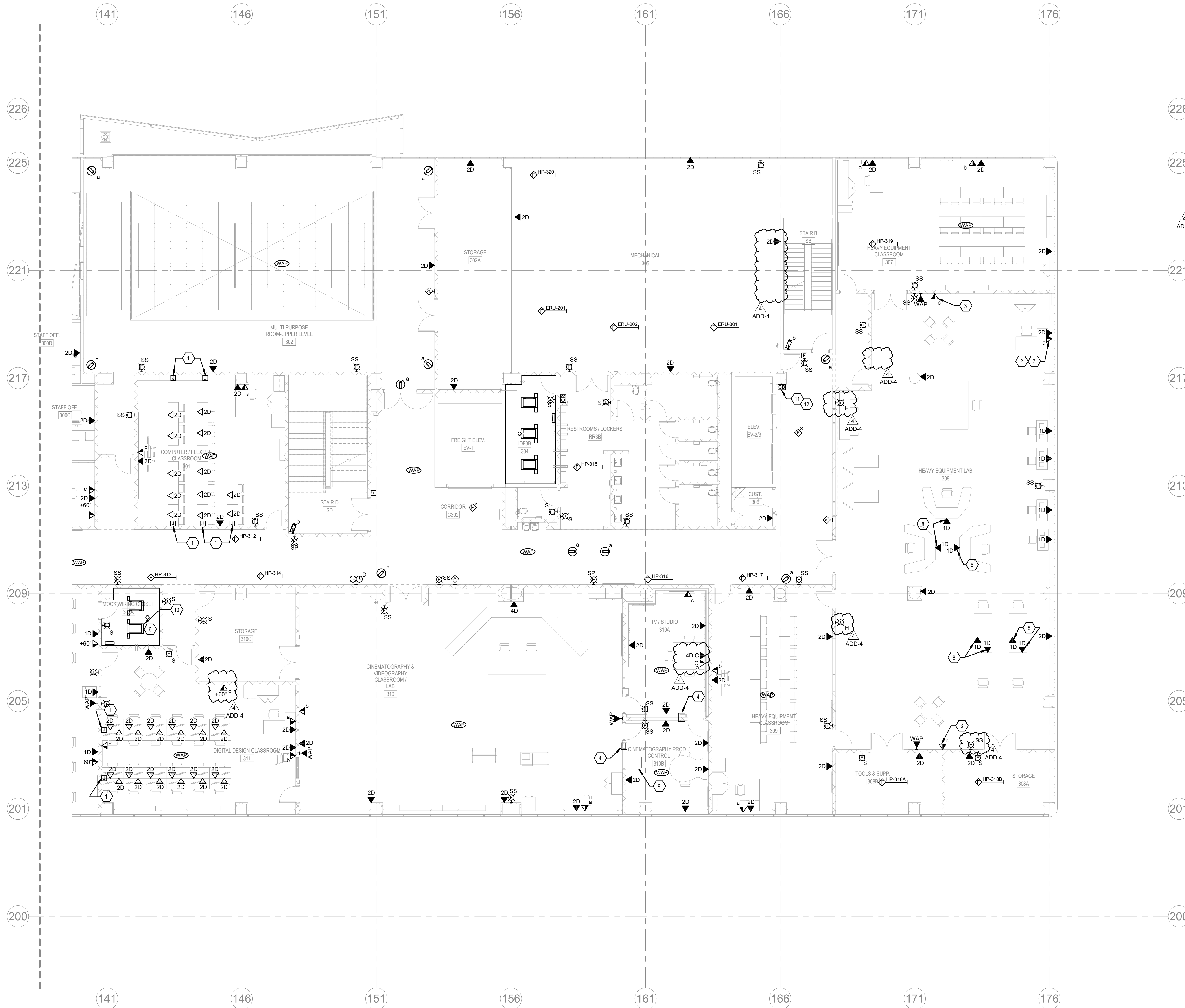
ADD #4
10/28/2022
E303b

GENERAL NOTES

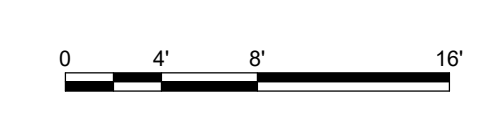
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO DOOR RISERS FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.

SHEET KEYNOTES

1. PROVIDE 4 1 1/16" OUTLET BOX WITH (2) 1 1/4" CONDUITS TO ABOVE ACCESSIBLE CEILING. ROUTE DATA CABLING AS REQUIRED TO SERVE FURNITURE EQUIPMENT AND COORDINATE WITH REVIEWED SHOP DRAWINGS.
2. PROVIDE HDMI 1X4 ENCODER FOR TEACHER DISPLAY REPLICATION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PROVIDE HDMI DECODER MOUNTED BEHIND DISPLAY. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION IN THE FIELD.
4. PROVIDE 24"x24" OPENING IN WALL, ABOVE CEILING FOR CABLE PASS-THROUGH.
5. ALL MULTIMEDIA DEVICE CONNECTIONS SERVING THE WALL MOUNTED AND MOBILE MONITORS IN ROOM 311 SHALL BE CONNECTED BACK TO THE MULTIMEDIA RECEPTACLE LOCATED AT THE TEACHER'S DESK.
6. ROOM 312A, MOCK I.T. WIRING CLOSET, ALSO IDF3C, SHALL ONLY SERVE DATA PORTS WITHIN ROOMS 312 AND 312B. ALL CONNECTIONS, PATCH PANELS, AND CABLES SERVED FROM THIS ROOM SHALL BE CATEGORY 6A.
7. BOTH MULTIMEDIA DEVICE CONNECTIONS SERVING THE WALL MOUNTED MONITORS IN ROOM 308 SHALL BE CONNECTED BACK TO THE MULTIMEDIA RECEPTACLE LOCATED AT THE TEACHER'S DESK.
8. DATA DROPS TO BE INSTALLED FROM CEILING DOWN TO EQUIPMENT. REFER TO DETAIL ON DRAWING E501 FOR MORE INFORMATION.
9. PROVIDE 24"x24"x8" PULL-BOX ABOVE CEILING. (1) EACH 4" CONDUIT SHALL BE INSTALLED FROM THIS PULL-BOX TO MOCK WIRING CLOSET 312A AND TO 2ND FLOOR MULTIPURPOSE ROOM 208 PULL-BOX.
10. PROVIDE LOCKABLE VENTILATED ENCLOSURE FOR SECURITY.
11. PROVIDE A TWO-WAY COMMUNICATION CALL BOX. ALPHA REFUGE OR EQUAL. CALL BOX SHALL INCLUDE VISUAL CALL NOTIFICATION, INTEGRAL BATTERY BACKUP, AND A RECESSED BOX WITH STAINLESS STEEL COVER. PROVIDE WIRING BETWEEN CALL BOXES, TO THE POWER SUPPLY, AND TO THE MASTER CALL STATION PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. ADJACENT TO CALL BUTTON, PROVIDE INSTRUCTIONS AND LOCATION SIGNAGES WITH BLACK LETTERING AS WELL AS BRAILLE. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT, OWNER/ENGINEER, AND ALL TRADES PRIOR TO INSTALLATION.
12. PROVIDE SYSTEM WITH A TIMED AUTOMATIC CAPABILITY TO A MONITORING LOCATION OR TO DIAL OUT TO 9-1-1 AS WELL AS FOUR ADDITIONAL REMOTE PHONE NUMBERS. SYSTEM SHALL BE PROVIDED WITH VOIP CAPABILITY OPTIONS. ALL LOW-VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT. INSTALL PER ALL RELATED CODES AND STANDARDS.



1 THIRD FLOOR PLAN B - SYSTEMS
SCALE: 1/8" = 1'-0"



REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4

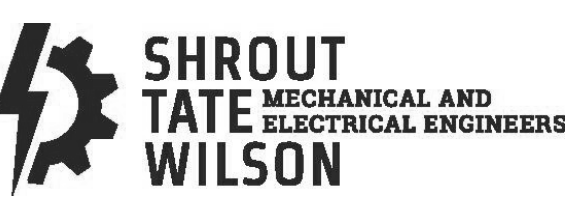


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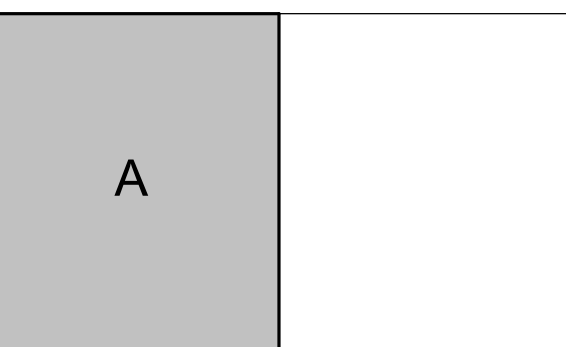


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KEYPLAN

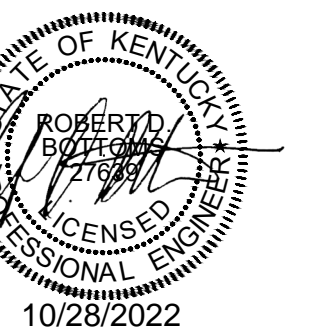
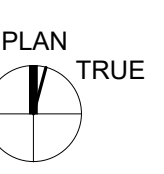


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Drawn By JHS
Checked By RDB
Date 09/28/2022



**FOURTH FLOOR PLAN
A - SYSTEMS**

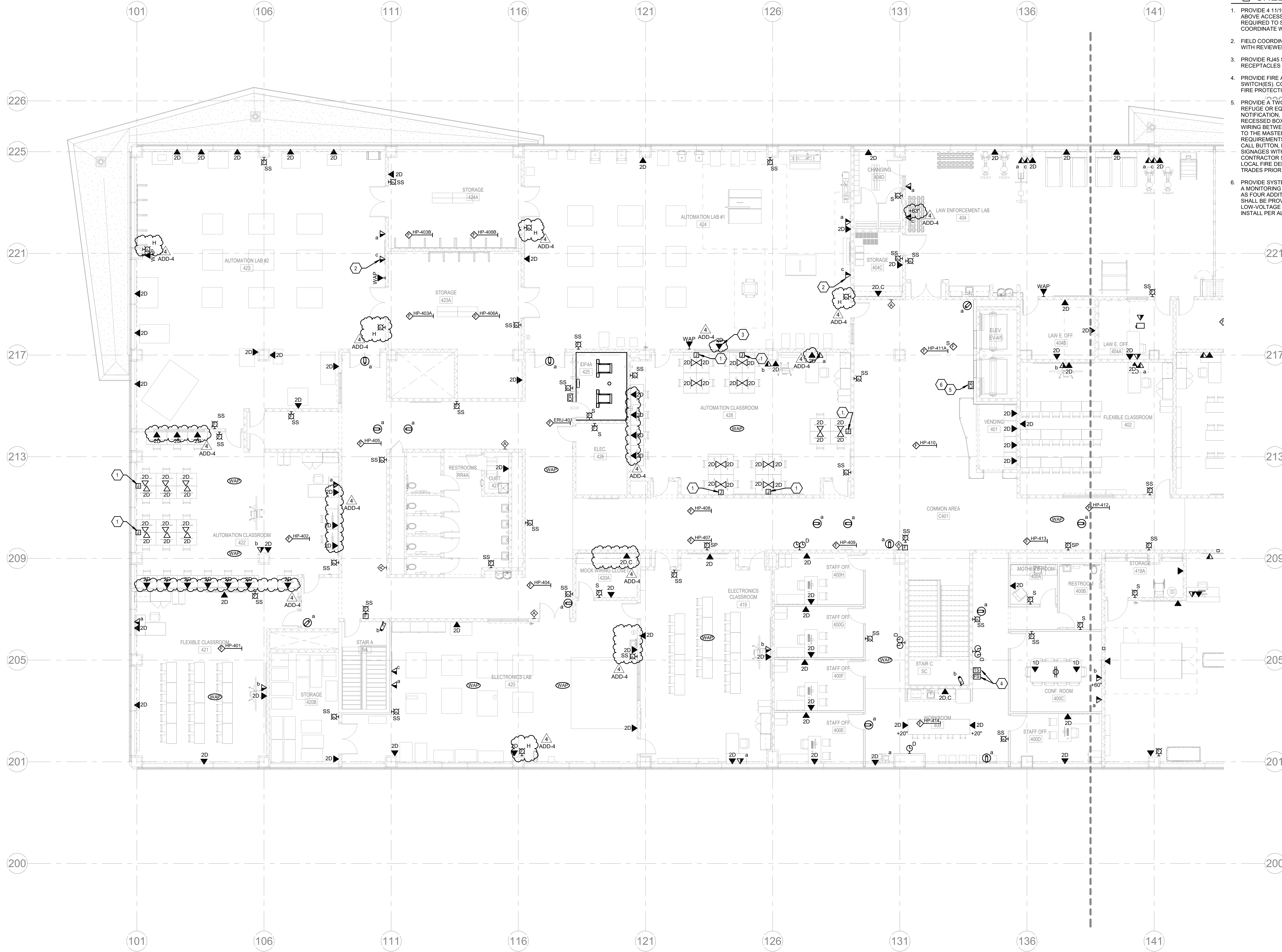
ADD #4
10/28/2022
E304a

GENERAL NOTES

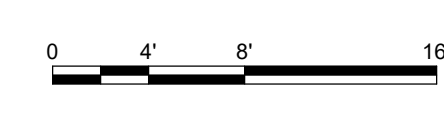
- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO DOOR RISERS FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.

SHEET KEYNOTES

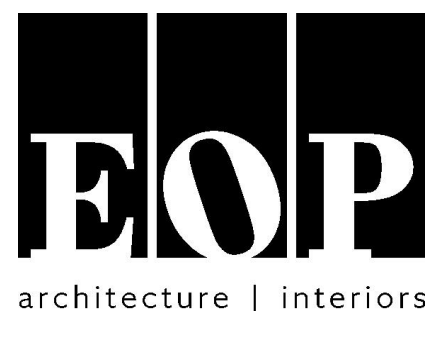
1. PROVIDE 4 1 1/16" OUTLET BOX WITH (2) 1 1/4" CONDUITS TO ABOVE ACCESSIBLE CEILING. ROUTE DATA CABLING AS REQUIRED TO SERVE FURNITURE EQUIPMENT AND COORDINATE WITH REVIEWED SHOP DRAWINGS.
2. FIELD COORDINATE POWER AND DATA MOUNTING HEIGHT WITH REVIEWED SHOP DRAWINGS.
3. PROVIDE R45 SHUTTERED TG JACK MODULE AT ALL DATA RECEPTACLES WITHIN THIS ROOM.
4. PROVIDE FIRE ALARM CONNECTION TO FLOW AND TAMPER SWITCH(ES). COORDINATE QUANTITY AND LOCATION WITH FIRE PROTECTION CONTRACTOR.
5. PROVIDE A TWO-WAY COMMUNICATION CALL BOX. ALPHA, REFUGE OR EQUAL. CALL BOX SHALL INCLUDE VISUAL CALL NOTIFICATION, INTEGRAL BATTERY BACKUP, AND A RECESSED BOX WITH STAINLESS STEEL COVER. PROVIDE WIRING BETWEEN CALL BOXES TO THE POWER SUPPLY, AND TO THE MASTER CALL STATION PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. ADJACENT TO CALL BUTTON. PROVIDE INSTRUCTIONS AND LOCATION SIGNAGES WITH BLACK LETTERING AS WELL AS BRAILLE. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT, OWNER/ENGINEER, AND ALL TRADES PRIOR TO INSTALLATION.
6. PROVIDE SYSTEM WITH A TIMED AUTOMATIC CAPABILITY TO A MONITORING LOCATION OR TO DIAL OUT TO 9-1-1 AS WELL AS FOUR ADDITIONAL REMOTE PHONE NUMBERS. SYSTEM SHALL BE PROVIDED WITH VOIP CAPABILITY OPTIONS. ALL LOW-VOLTAGE CABLING SHALL BE INSTALLED IN CONDUIT. INSTALL PER ALL RELATED CODES AND STANDARDS.



1 FOURTH FLOOR PLAN A - SYSTEMS
SCALE: 1/8" = 1'-0"

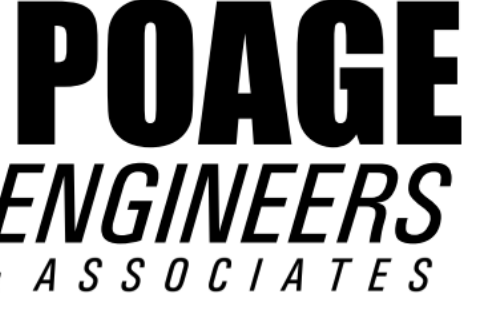


REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4

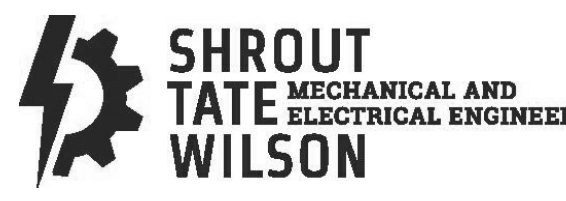


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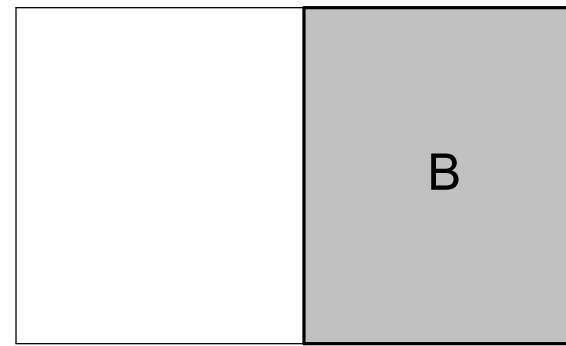


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KEYPLAN

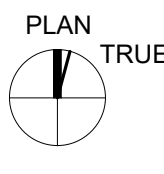


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Drawn By JHS
Checked By RDB
Date 09/28/2022



**FOURTH FLOOR PLAN
B - SYSTEMS**

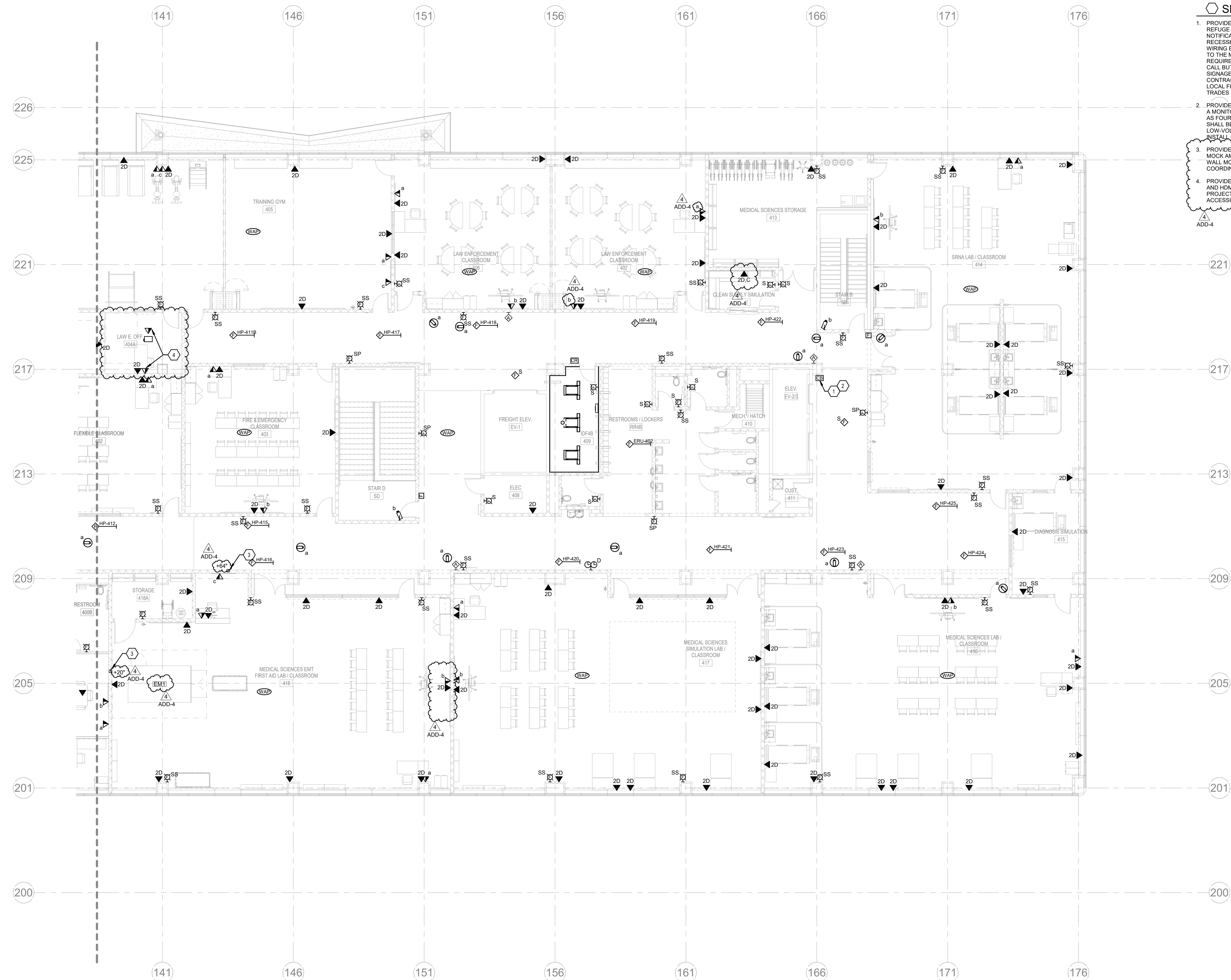
ADD #4
10/28/2022
E304b

GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO DOOR RISERS FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.

SHEET KEYNOTES

1. PROVIDE A TWO-WAY COMMUNICATION CALL BOX, ALPHA REFUGE OR EQUAL. CALL BOX SHALL INCLUDE VISUAL CALL NOTIFICATION, INTEGRAL BATTERY BACKUP, AND A RECESSED BOX WITH STAINLESS STEEL COVER. PROVIDE WIRING BETWEEN CALL BOXES, TO THE POWER SUPPLY, AND TO THE MASTER CALL STATION PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. ADJACENT TO CALL BUTTON, PROVIDE INSTRUCTIONS AND LOCATION SIGNAGES WITH BLACK LETTERING AS WELL AS BRAILLE. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT, OWNER/ENGINEER, AND ALL TRADES PRIOR TO INSTALLATION.
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3. PROVIDE 6"x6"x4" JUNCTION BOX WITH 2" CONDUIT FROM MOCK AMBULANCE LOCATION - EM1(20' TO TOP OF BOX) TO WALL MOUNTED MONITOR (60" TO TOP OF BOX). FIELD COORDINATE EXACT LOCATION OF EACH BOX.
4. PROVIDE 25FT 4K HDMI CABLE BETWEEN TEACHER DESK AND HDMI JACK IN CEILING BY CEILING MOUNTED PROJECTOR. EXCESS CABLE TO BE COILED UP ABOVE ACCESSIBLE CEILING.



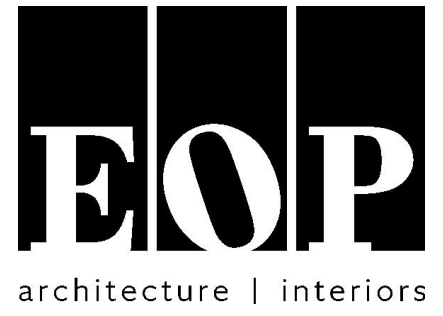
1 FOURTH FLOOR PLAN B - SYSTEMS

SCALE: 1/8" = 1'-0"

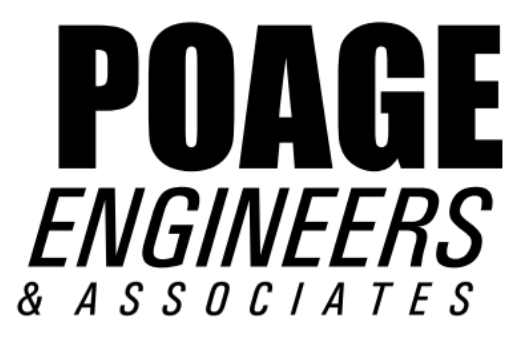


BID DOCUMENTS

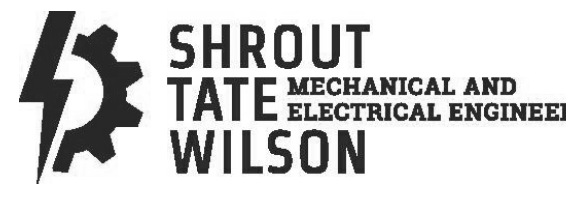
REVISIONS		
#	DATE	DESCRIPTION
4	10/28/22	ADDENDUM 4



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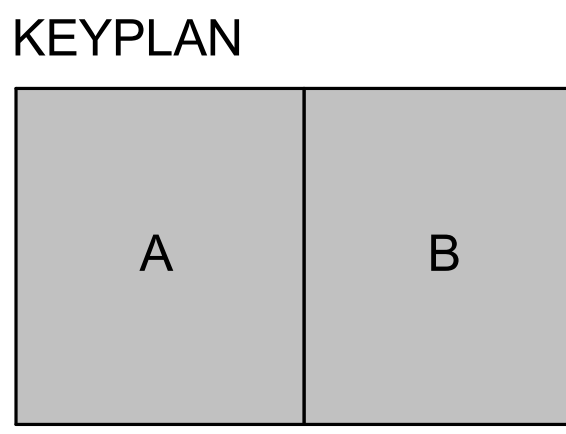
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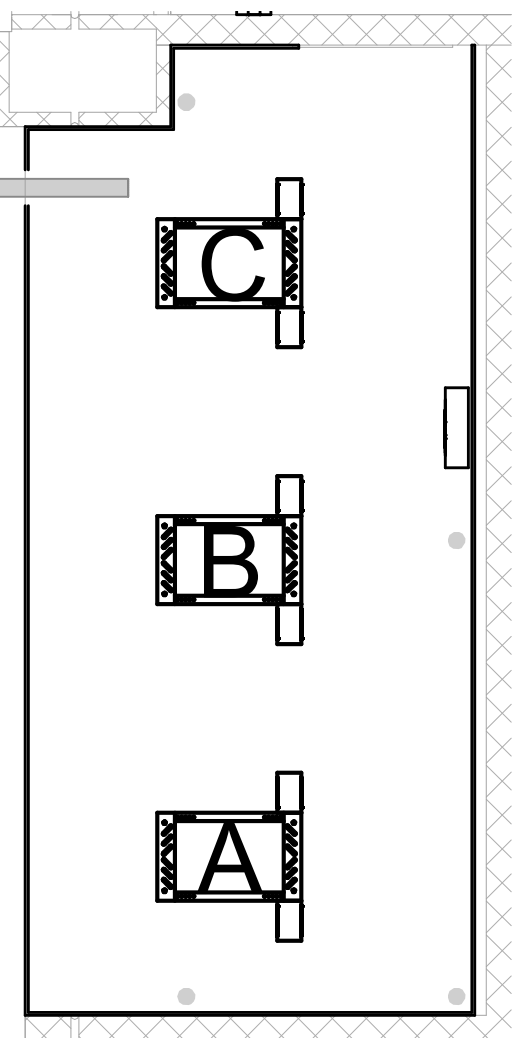


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Job Number	2150	PLAN
Drawn By	JHS	TRUE
Checked By	RDB	
Date	09/28/2022	

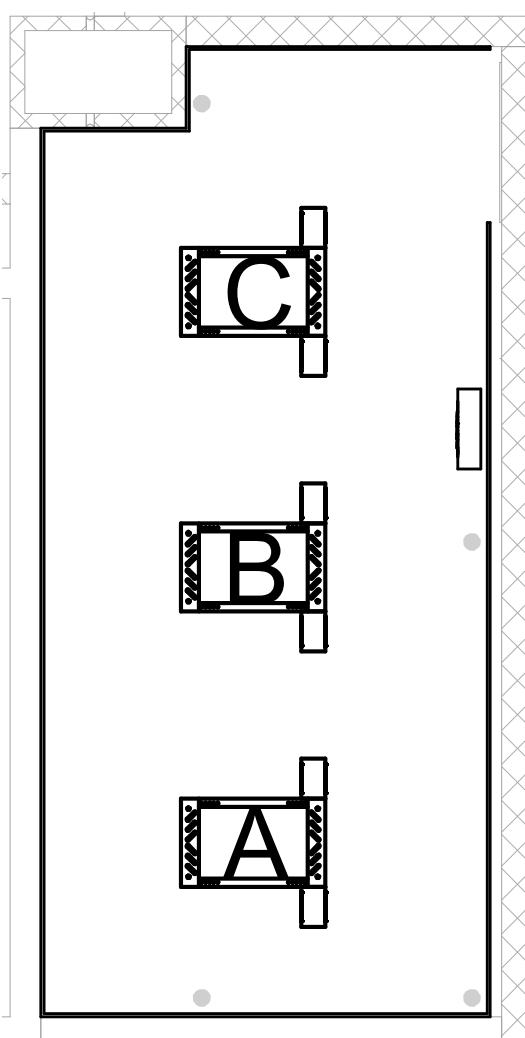


COMMUNICATION RISER



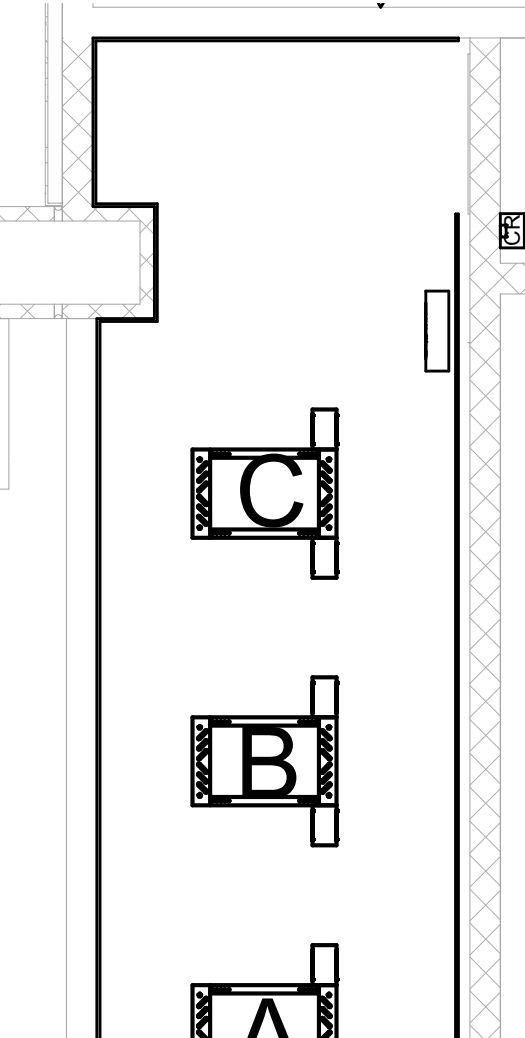
IDF4B DATA FRAME DESIGNATIONS
FRAME A - PRIMARY COPPER AND FIBER RACK
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• 25 PAIR COPPER FROM MDF FRAME 'A'
• VOICE/DATA CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME B - EQUIPMENT AND PATCH PANELS
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• INTERCOM CABLING TERMINATIONS
• IPTV CABLING TERMINATIONS
• CCTV CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME C - SPARE FRAME FOR FUTURE EXPANSION
• 12 STRAND MM FIBER FROM MDF FRAME 'A'

8 IDF4B - FOURTH FLOOR AREA B
SCALE: 1/4" = 1'-0"



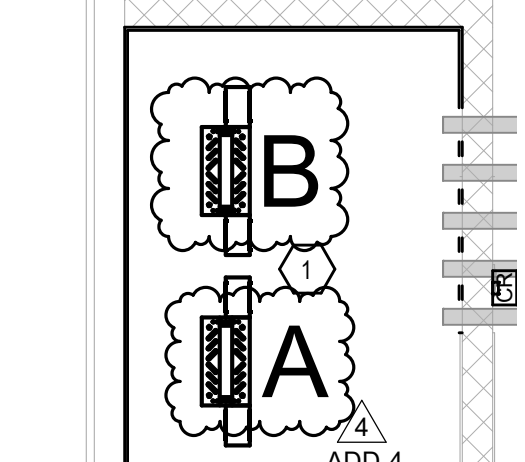
IDF3B DATA FRAME DESIGNATIONS
FRAME A - PRIMARY COPPER AND FIBER RACK
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• 25 PAIR COPPER FROM MDF FRAME 'A'
• VOICE/DATA CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME B - EQUIPMENT AND PATCH PANELS
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• INTERCOM CABLING TERMINATIONS
• IPTV CABLING TERMINATIONS
• CCTV CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME C - SPARE FRAME FOR FUTURE EXPANSION
• 12 STRAND MM FIBER FROM MDF FRAME 'A'

6 IDF3B - THIRD FLOOR AREA B
SCALE: 1/4" = 1'-0"



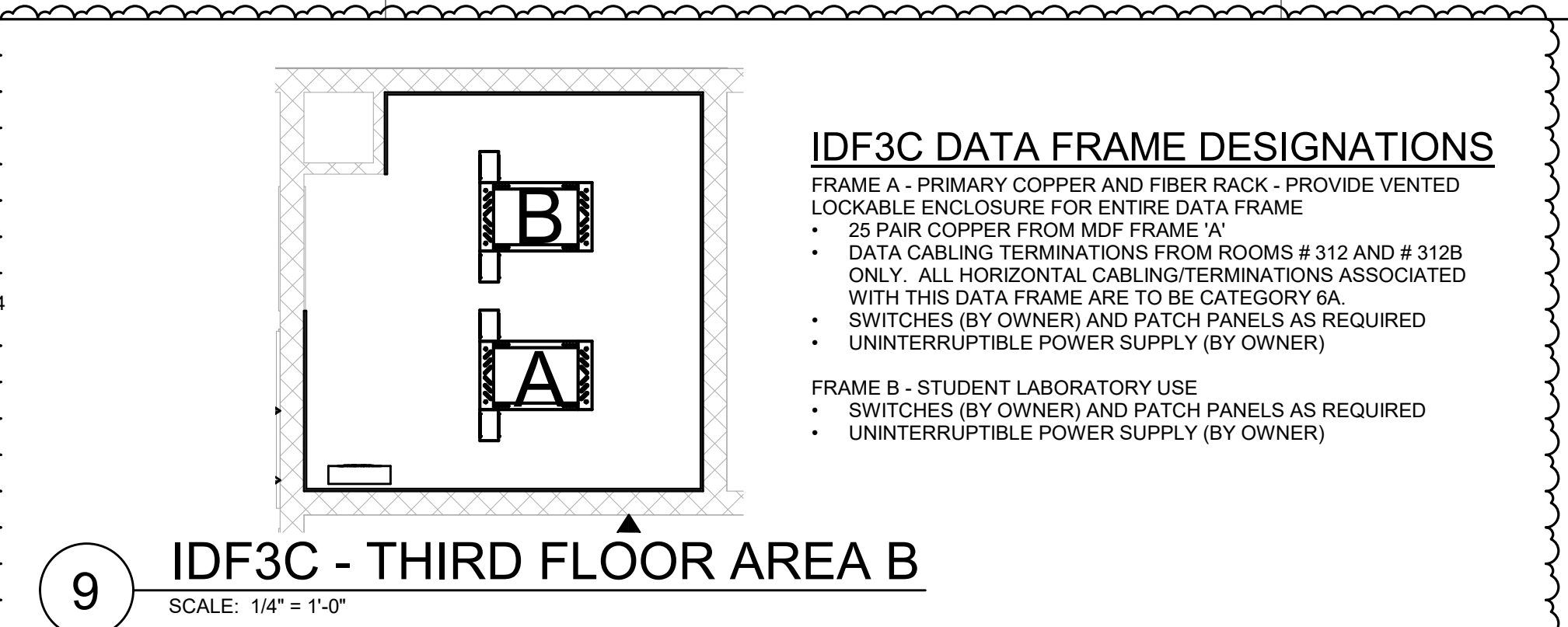
IDF2B DATA FRAME DESIGNATIONS
FRAME A - PRIMARY COPPER AND FIBER RACK
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• 25 PAIR COPPER FROM MDF FRAME 'A'
• VOICE/DATA CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME B - EQUIPMENT AND PATCH PANELS
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• INTERCOM CABLING TERMINATIONS
• IPTV CABLING TERMINATIONS
• CCTV CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME C - SPARE FRAME FOR FUTURE EXPANSION
• 12 STRAND MM FIBER FROM MDF FRAME 'A'

4 IDF2B - SECOND FLOOR AREA B
SCALE: 1/4" = 1'-0"



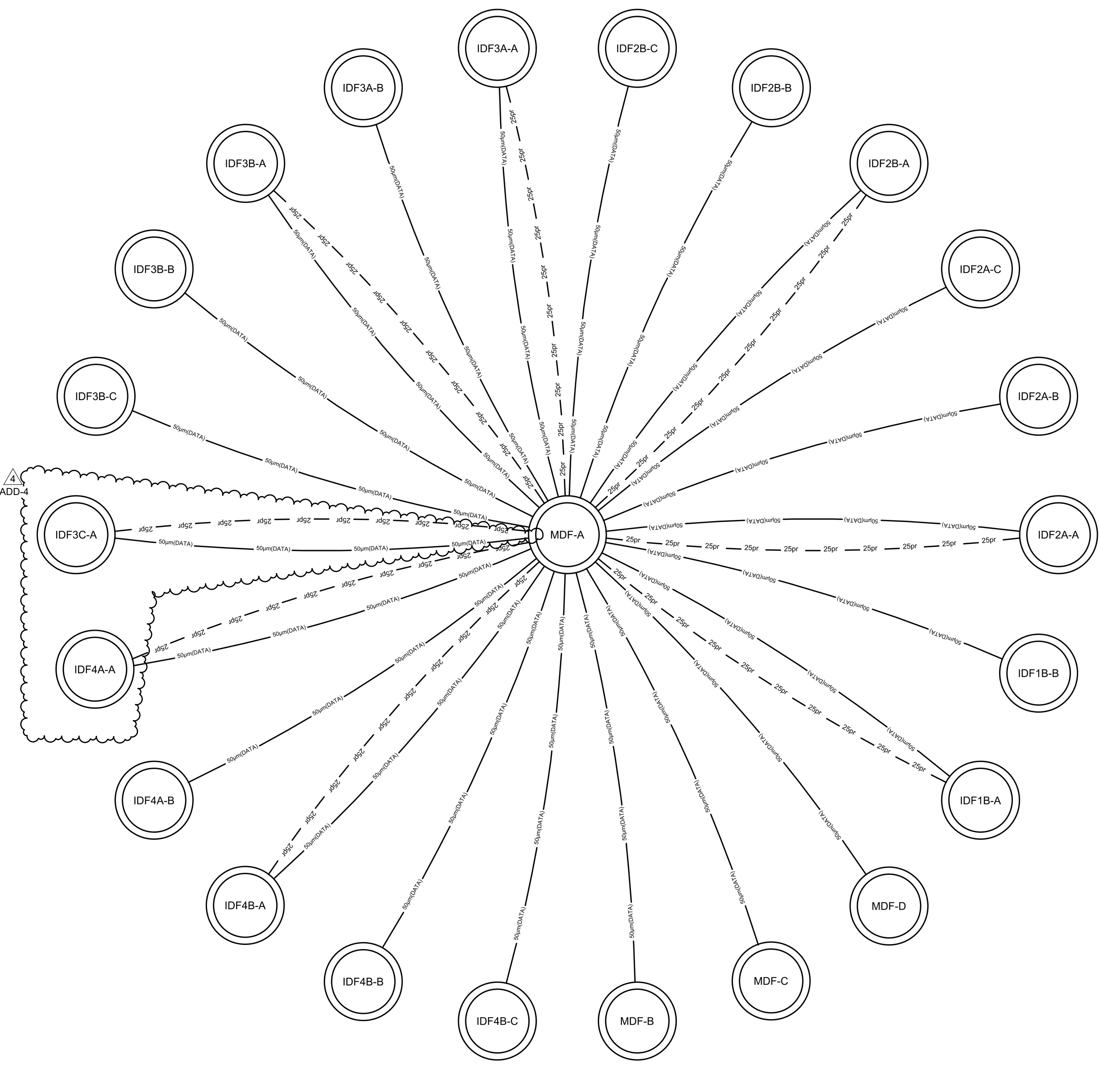
IDF1B DATA FRAME DESIGNATIONS
FRAME A - PRIMARY COPPER AND FIBER RACK
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• 25 PAIR COPPER FROM MDF FRAME 'A'
• VOICE/DATA CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME B - EQUIPMENT AND PATCH PANELS
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• ALL FIBER CONNECTIONS TO EAST PARKING LOT CAMERAS
• INTERCOM CABLING TERMINATIONS
• IPTV CABLING TERMINATIONS
• CCTV CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)

2 IDF1B - FIRST FLOOR AREA B
SCALE: 1/4" = 1'-0"



IDF3C DATA FRAME DESIGNATIONS
FRAME A - PRIMARY COPPER AND FIBER RACK - PROVIDE VENTED LOCKABLE ENCLOSURE FOR ENTIRE DATA FRAME
• 25 PAIR COPPER FROM MDF FRAME 'A'
• DATA CABLING TERMINATIONS FROM ROOMS # 312 AND # 312B ONLY - ALL HORIZONTAL CABLING/TERMINATIONS ASSOCIATED WITH THIS DATA FRAME ARE TO BE CATEGORY 6A
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME B - STUDENT LABORATORY USE
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)

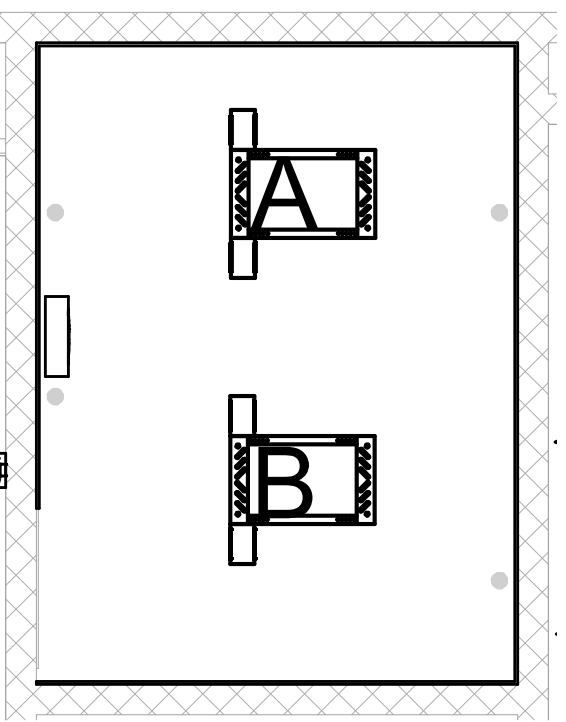
9 IDF3C - THIRD FLOOR AREA B
SCALE: 1/4" = 1'-0"



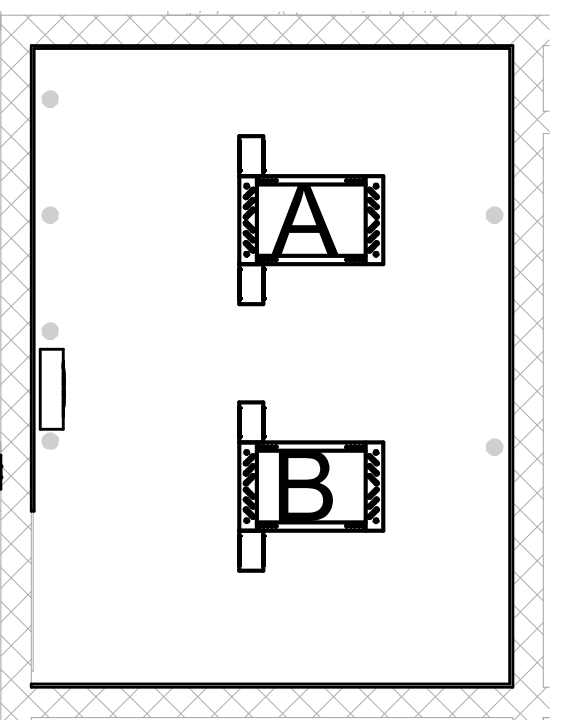
LEGEND

--- 12 STRAND MULTIMODE
--- 25 PAIR COPPER
○ (NAME) DATA FRAME

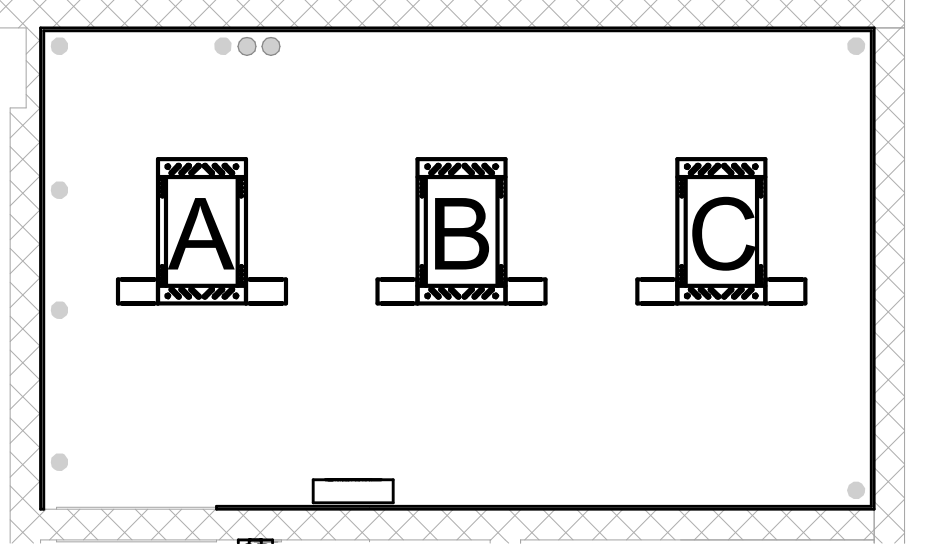
10 COMMUNICATION STAR TOPOLOGY
SCALE: 1/2" = 1'-0"



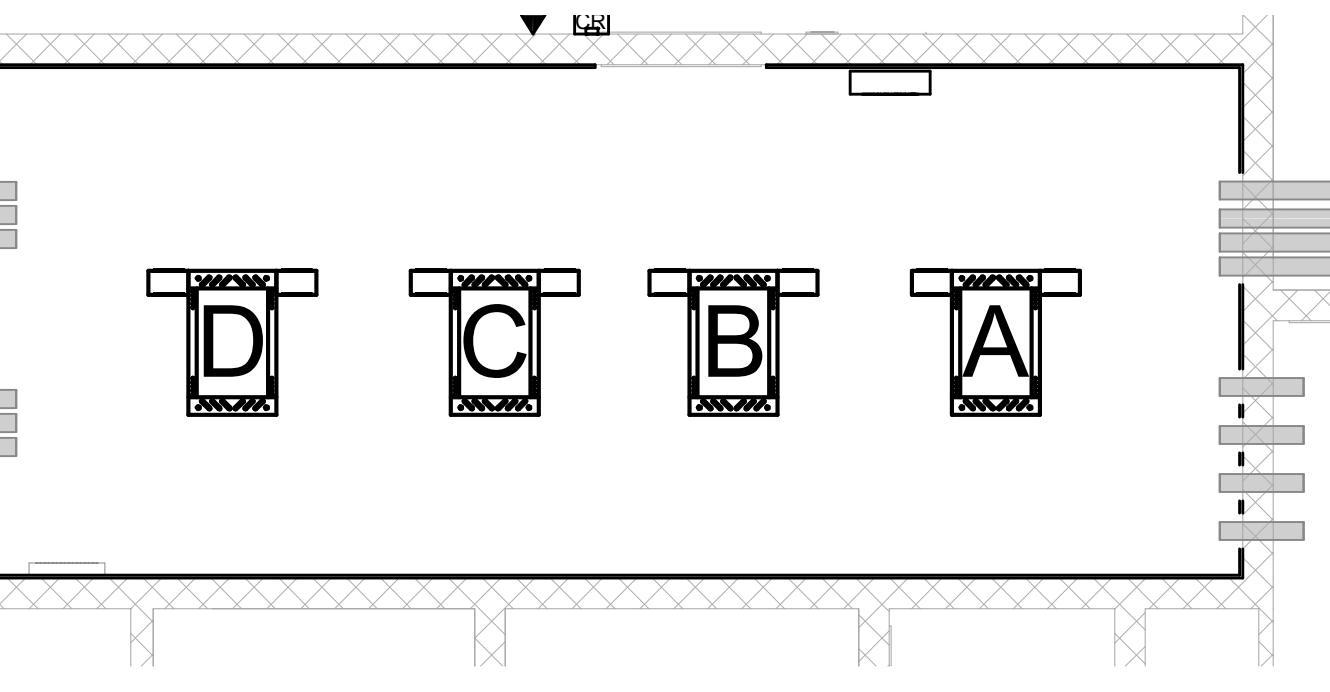
7 IDF4A - FOURTH FLOOR AREA A
SCALE: 1/4" = 1'-0"



5 IDF3A - THIRD FLOOR AREA A
SCALE: 1/4" = 1'-0"



3 IDF2A - SECOND FLOOR AREA A
SCALE: 1/4" = 1'-0"



1 MDF - FIRST FLOOR AREA A
SCALE: 1/4" = 1'-0"

IDF4A DATA FRAME DESIGNATIONS
FRAME A - PRIMARY COPPER AND FIBER RACK
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• 25 PAIR COPPER FROM MDF FRAME 'A'
• VOICE/DATA CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME B - EQUIPMENT AND PATCH PANELS
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• INTERCOM CABLING TERMINATIONS
• IPTV CABLING TERMINATIONS
• CCTV CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)

IDF3A DATA FRAME DESIGNATIONS
FRAME A - PRIMARY COPPER AND FIBER RACK
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• 25 PAIR COPPER FROM MDF FRAME 'A'
• VOICE/DATA CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME B - EQUIPMENT AND PATCH PANELS
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• INTERCOM CABLING TERMINATIONS
• IPTV CABLING TERMINATIONS
• CCTV CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)

IDF2A DATA FRAME DESIGNATIONS
FRAME A - PRIMARY COPPER AND FIBER RACK
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• 25 PAIR COPPER FROM MDF FRAME 'A'
• VOICE/DATA CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME B - EQUIPMENT AND PATCH PANELS
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• INTERCOM CABLING TERMINATIONS
• IPTV CABLING TERMINATIONS
• CCTV CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME C - SPARE FRAME FOR FUTURE EXPANSION
• 12 STRAND MM FIBER FROM MDF FRAME 'A'

MDF DATA FRAME DESIGNATIONS
FRAME A - PRIMARY COPPER AND FIBER RACK
• CENTER POINT OF STAR TOPOLOGY BACKBONES
• 12 STRAND MM FIBER TO ALL OTHER FRAMES
• 25 PAIR COPPER TO ALL OTHER 'A' FRAMES
• VOICE/DATA CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME B - EQUIPMENT AND PATCH PANELS
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• ALL FIBER CONNECTIONS TO WEST PARKING LOT CAMERAS
• CCTV SYSTEM HEAD END
• CCTV CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME C - EQUIPMENT AND PATCH PANELS
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• INTERCOM SYSTEM HEAD END
• IPTV SYSTEM HEAD END
• IPTV CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)
FRAME D - EQUIPMENT AND PATCH PANELS
• 12 STRAND MM FIBER FROM MDF FRAME 'A'
• VOIP TELEPHONE COMMUNICATION HEAD END
• VOICE/DATA CABLING TERMINATIONS
• SWITCHES (BY OWNER) AND PATCH PANELS AS REQUIRED
• UNINTERRUPTIBLE POWER SUPPLY (BY OWNER)

GENERAL NOTES

- REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- COMMUNICATION ROOMS SHOWN ON THIS SHEET ARE TO CONVEY SCHEMATIC CONNECTIVITY ONLY. REFER TO FOLLOWING MDF / IDF ENLARGED PLANS FOR DETAILED COMPONENTS WITHIN COMMUNICATION ROOMS.
- COMMUNICATION ROOMS SHOWN SHALL SERVE VOICE/DATA OUTLETS IN THE ASSOCIATED A / B AREAS OF THE BUILDING VIA CATEGORY 6 CABLING. WITH EXCEPTION OF IDF3C WHICH SHALL SERVE ONLY ROOMS # 312 AND #312B AND SHALL BE VIA CATEGORY 6A CABLING.
- ALL DATA FRAMES, CONNECTION BLOCKS, PATCH PANELS, ETC. SHALL BE IDENTIFIED VIA ENGRAVED STAINLESS STEEL PLATE, 0.06" THICK, WITH SELF ADHESIVE BACKING. AT A MINIMUM (AS APPLICABLE) ENGRAVING SHALL IDENTIFY ROOM NUMBER, ROOM NAME, DATA FRAME IDENTIFIER, PATCH PANEL IDENTIFIER, AND DATE PUT INTO SERVICE (SUBSTANTIAL COMPLETION DATE). ENGRAVING FONT TO BE ARIAL, 1" TALL FOR DATA FRAMES AND WALL MOUNTED EQUIPMENT, 3/8" TALL FOR ALL OTHERS.

SHEET KEYNOTES

- DATA FRAMES IN IDF1B SHALL BE TWO-POST TYPE.

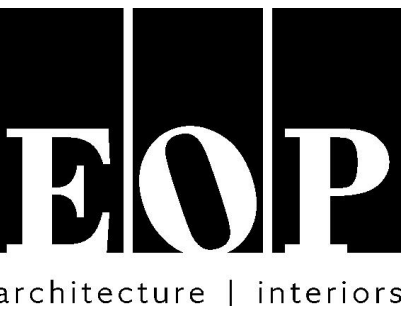
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BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/22	ADDENDUM 4



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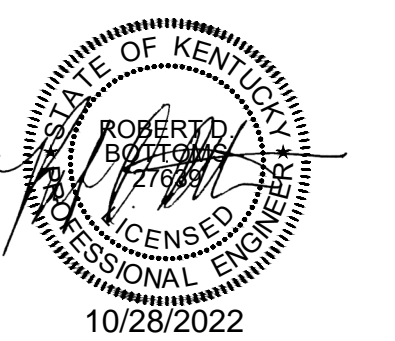
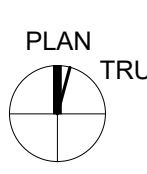
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Job Number 2150
Drawn By JHS
Checked By RDB
Date 09/28/2022



ENLARGED IDF ROOMS

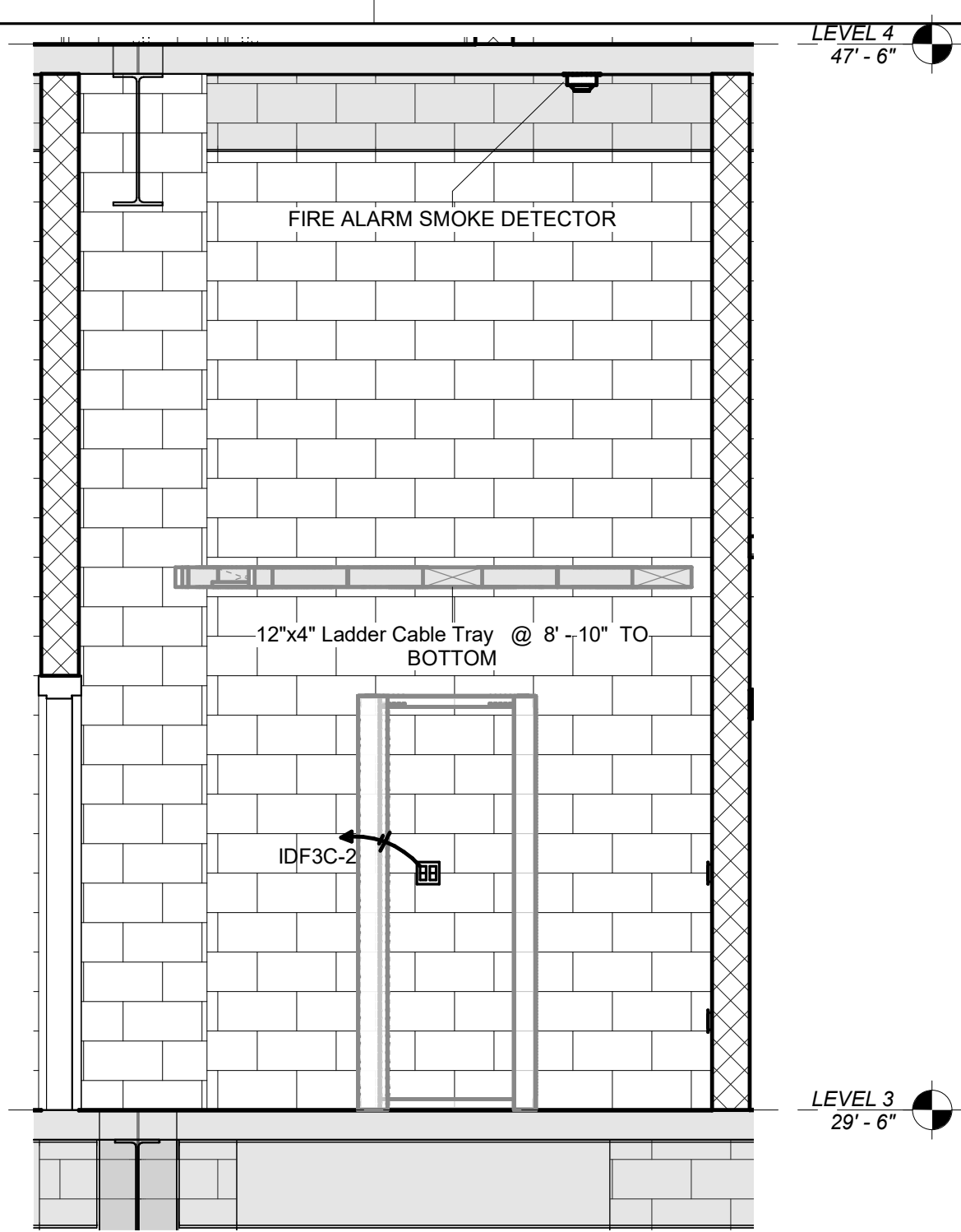
ADD #4
10/28/2022

E310

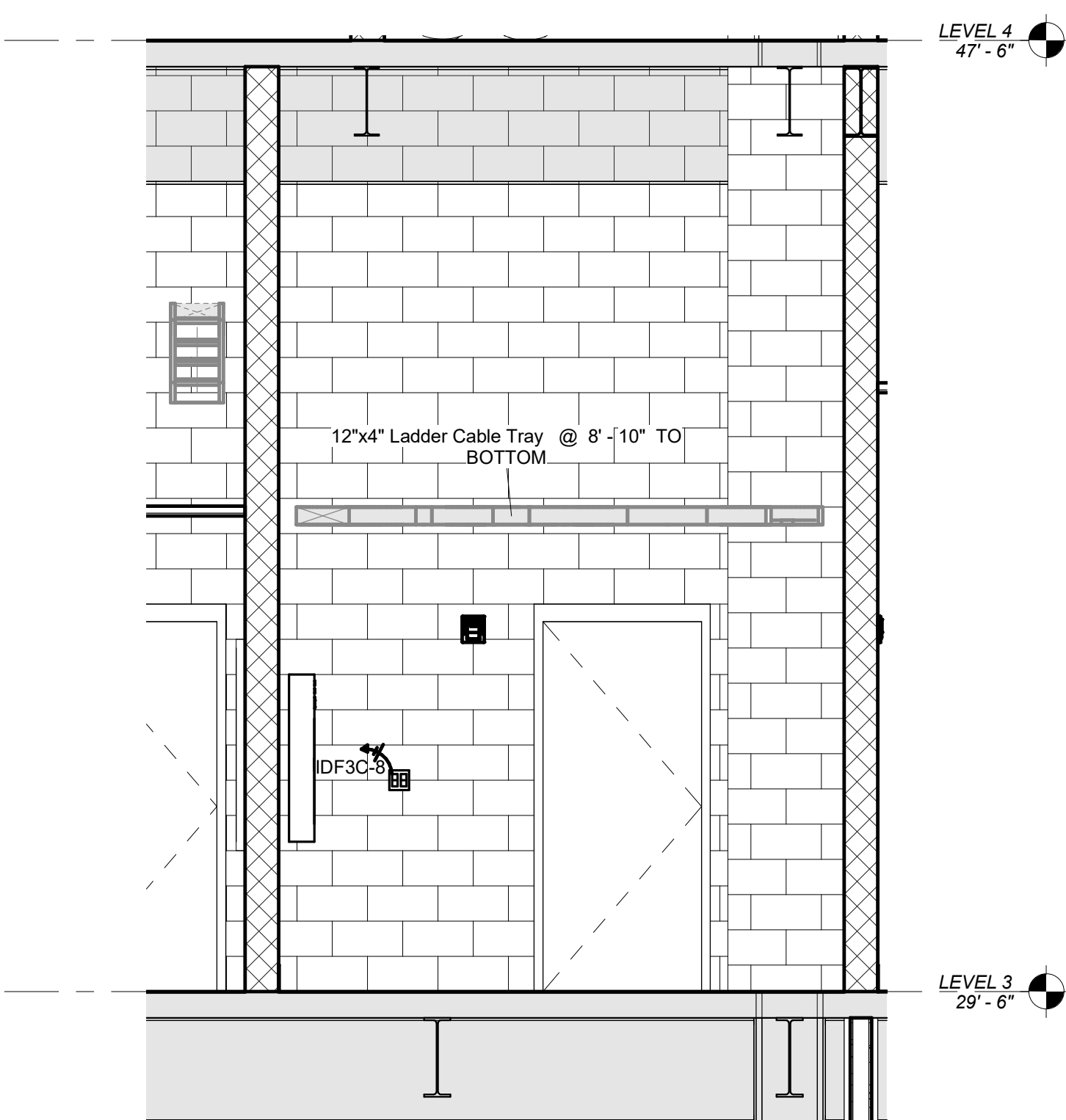
GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. CABLE TRAY INSTALLATION HEIGHTS SHOWN ARE CALCULATED. FIELD ADJUST AS NECESSARY FOR COORDINATION WITH OTHER TRADES. WHERE CABLE TRAY POSITIONS SHIFT GREATER THAN 6", COORDINATE REQUIRED ADJUSTMENTS WITH ENGINEER.
- C. STRUCTURAL BEAMS AND COLUMNS ARE SHOWN AS SEMI-TRANSPARENT TO FACILITATE CLARITY OF OBJECTS LOCATED BEYOND VISUAL LINE OF SIGHT OF SECTION, ELEVATION, OR PERSPECTIVE.
- D. DATA FRAMES ARE SHOWN AS SEMI-TRANSPARENT TO FACILITATE CLARITY OF OBJECTS LOCATED BEYOND VISUAL LINE OF SIGHT OF SECTION, ELEVATION, OR PERSPECTIVE.
- E. FOR CLARITY OF DESIGN INTENT, THE FIRE-RATED PLYWOOD LINING THE PERIMETER OF THE COMMUNICATIONS ROOMS IS SHOWN IN ENLARGED VIEWS ONLY. SECTIONS, ELEVATIONS, AND PERSPECTIVES DO NOT SHOW THE FIRE RATED PLYWOOD AS IT BLOCKS THE VIEW OF DEVICES. PROVIDE 3/4" FIRE RATED PLYWOOD, 4' x 8' SHEETS TYPICAL, MOUNTED VERTICALLY STARTING AT 6" AFF UP TO 8'-6" AFF ABOUT THE PERIMETER OF COMMUNICATIONS ROOMS AS SHOWN IN ENLARGED VIEWS. RECESS MOUNT ALL DEVICES IN WALLS SUCH THAT THE DEVICE IS FLUSH WITH THE EXPOSED FIRE RATED PLYWOOD.
- F. ALL CONDUITS AND SLEEVES SHOWN AS SPARE ARE FOR OWNER'S FUTURE USE. CONDUITS SHALL BE PROVIDED WITH A PULL STRING BETWEEN TWO ENDPOINTS AND SHALL BE OTHERWISE EMPTY WHEN PROJECT IS COMPLETE.
- G. CONDUIT SLEEVES SHOWN SHALL BE A MINIMUM QUANTITY PROVIDED. SUPPLEMENT WITH ADDITIONAL SLEEVES AS NECESSARY TO FACILITATE SYSTEM INSTALLATIONS.
- H. PROVIDE AN LOCKABLE, VENTILATED ENCLOSURE FOR DATA FRAME 'A'.

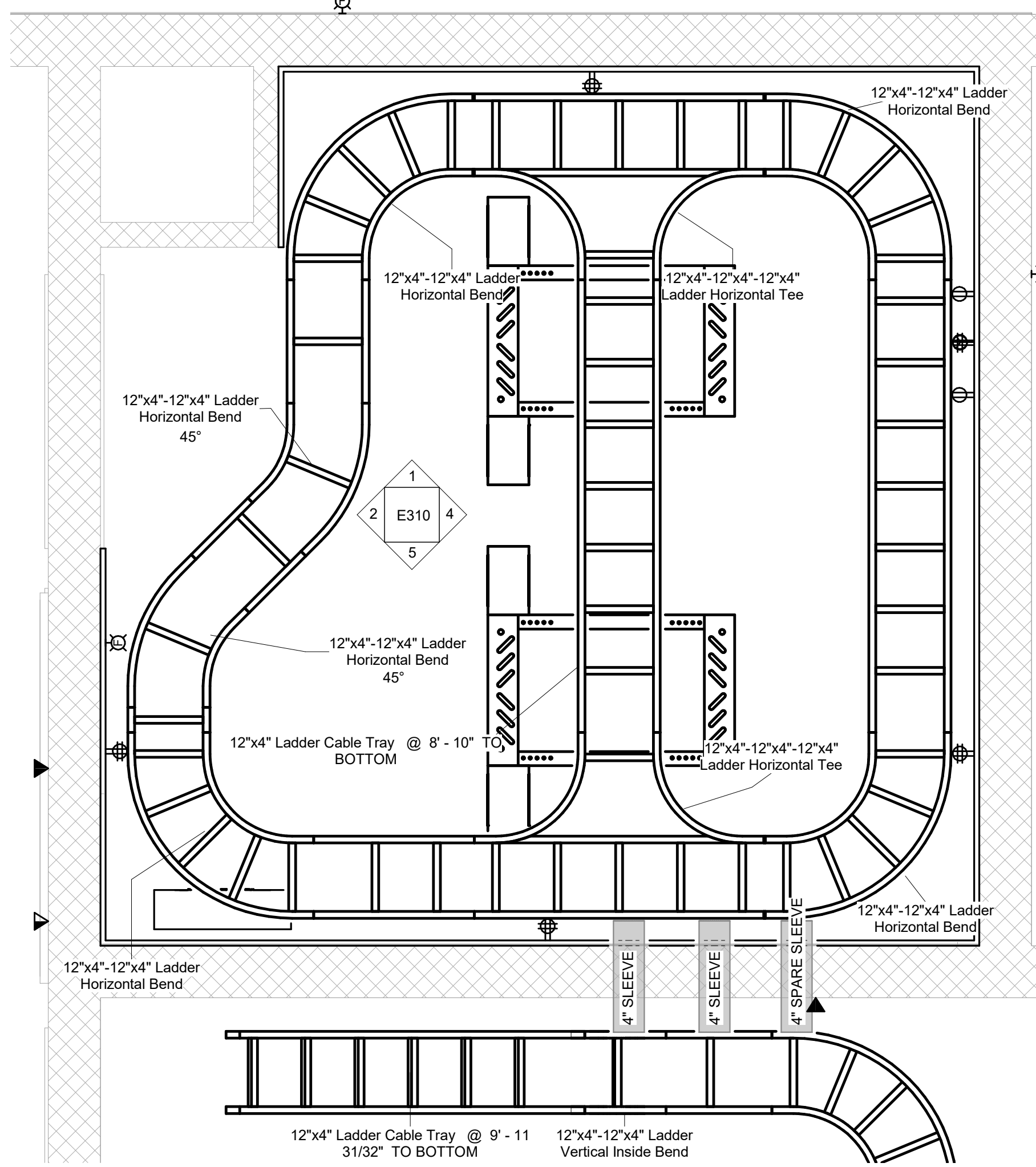
ADD-4



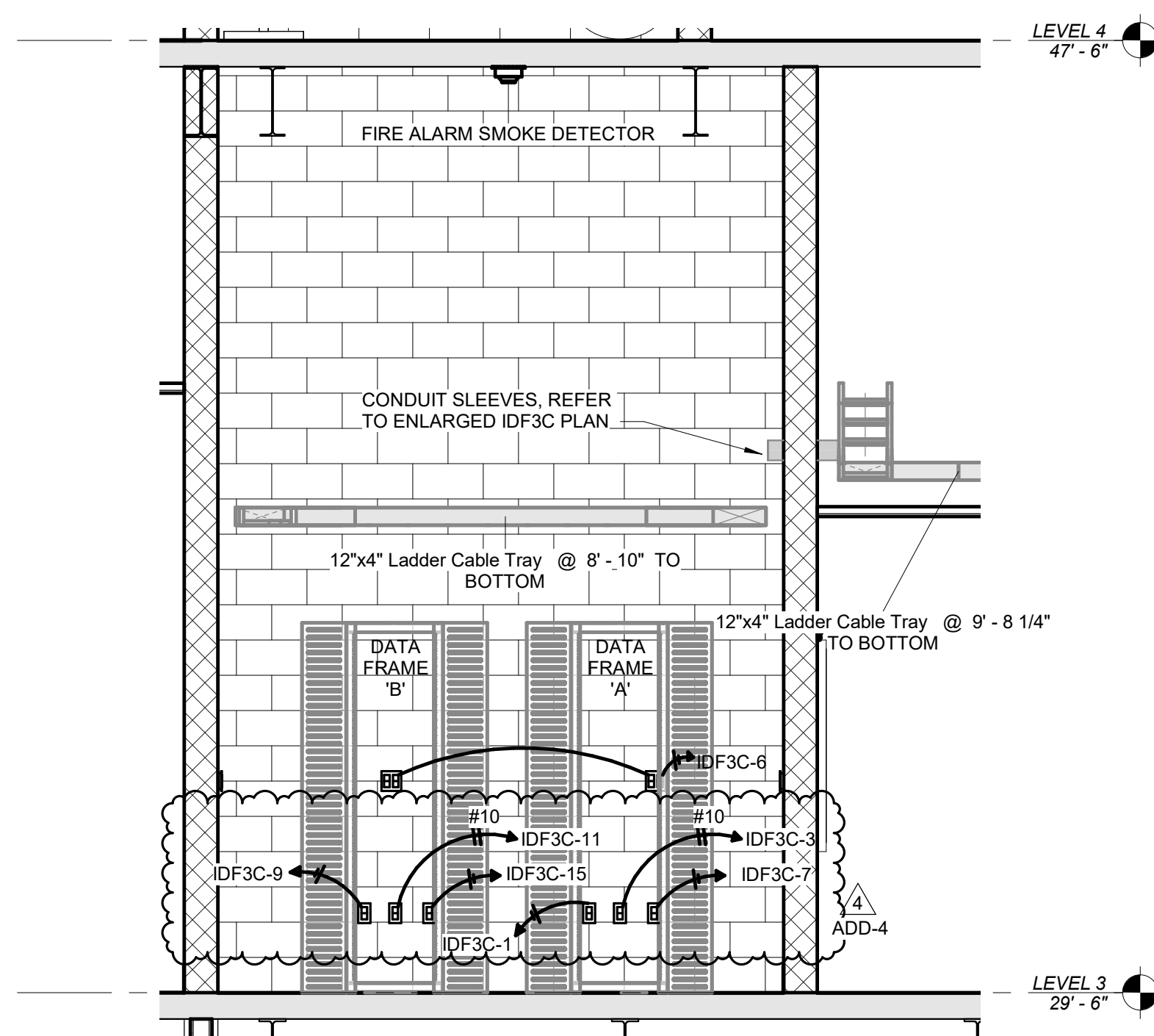
1 IDF3C - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



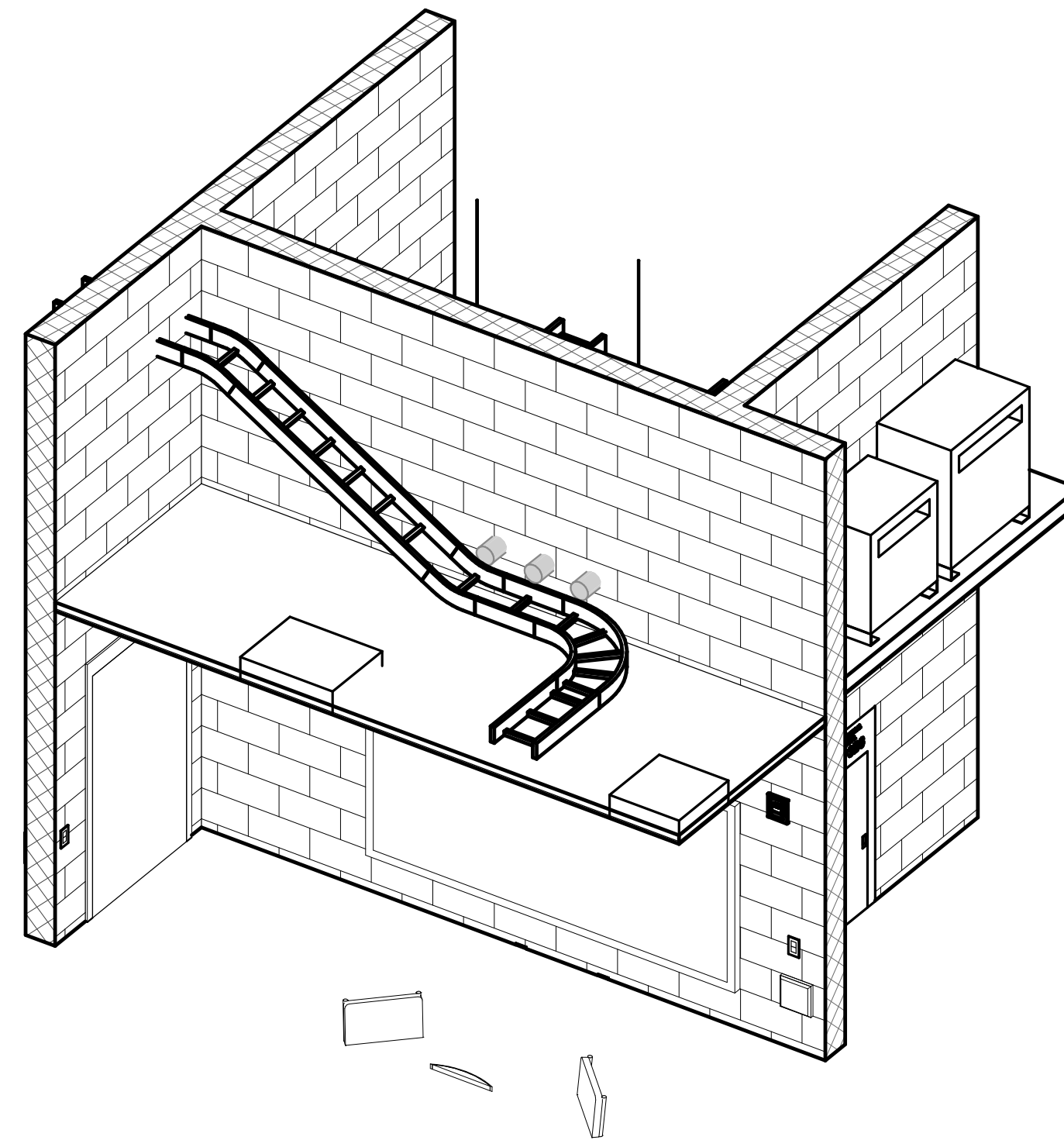
2 IDF3C - WEST ELEVATION
SCALE: 3/8" = 1'-0"



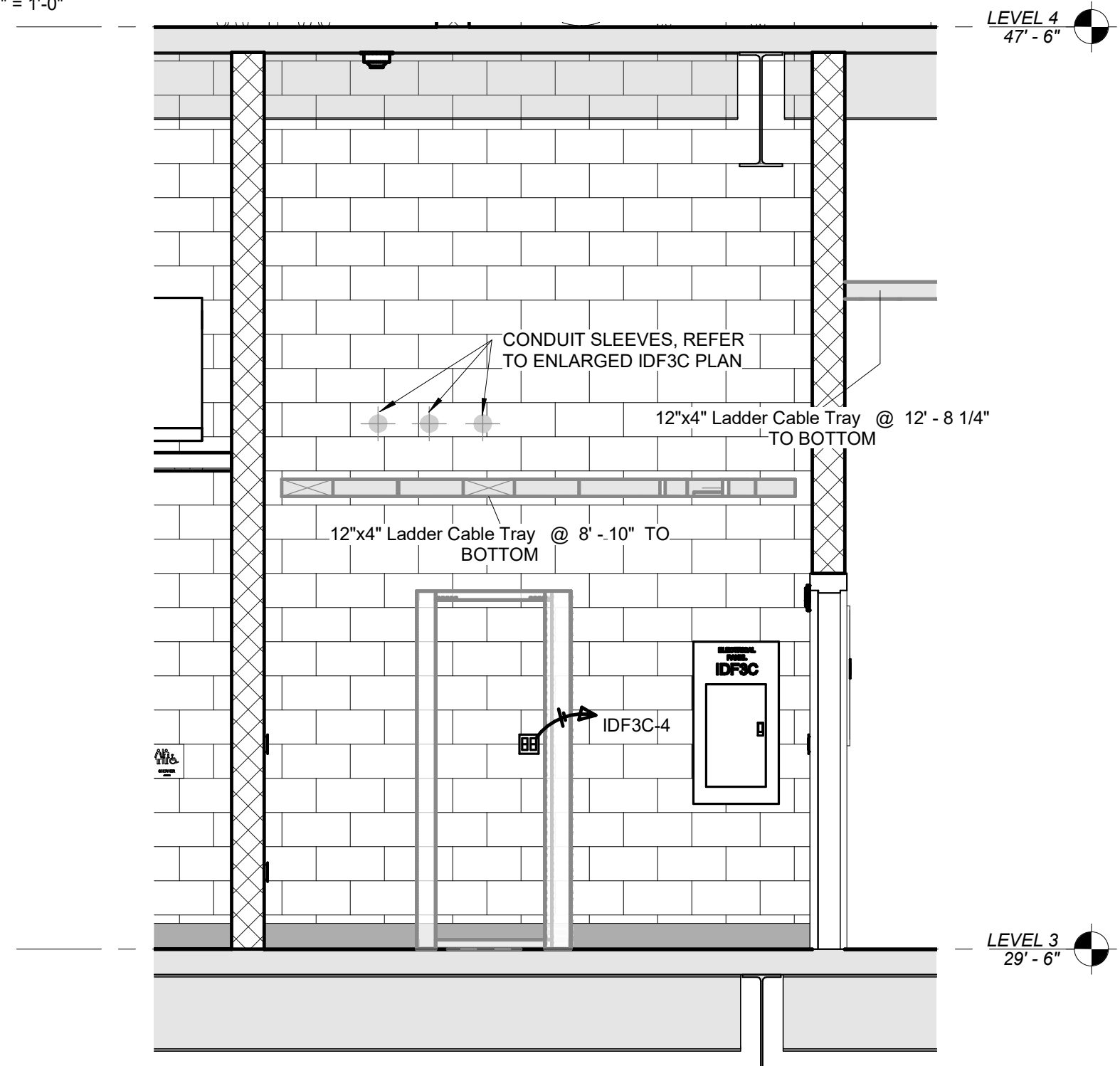
3 ENLARGED IDF3C - THIRD FLOOR AREA B
SCALE: 3/4" = 1'-0"



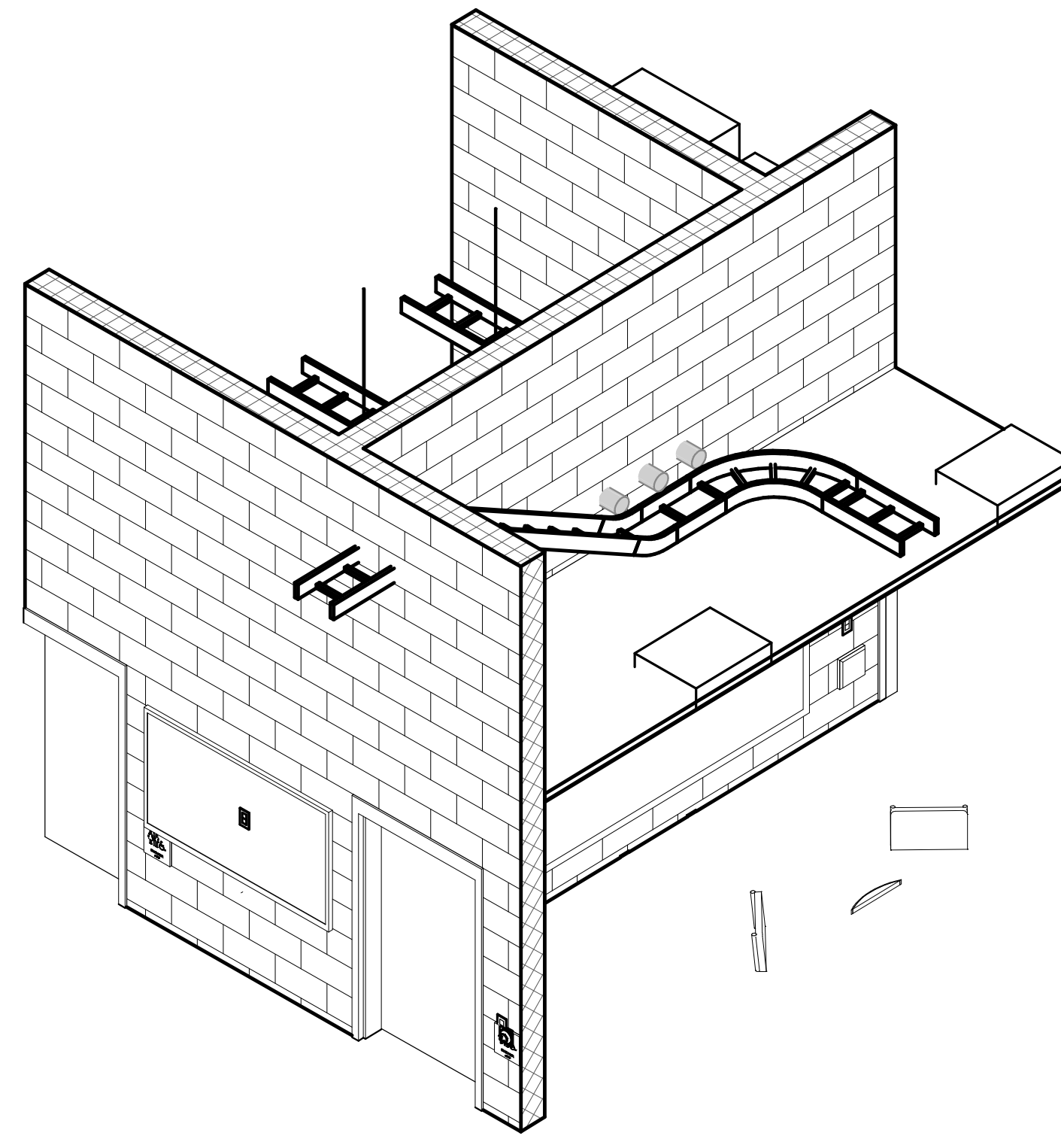
4 IDF3C - EAST ELEVATION
SCALE: 3/8" = 1'-0"



6 PERSPECTIVE - IDF3C SOUTHWEST
SCALE:

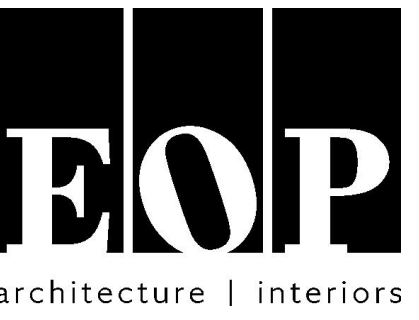


5 IDF3C - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"



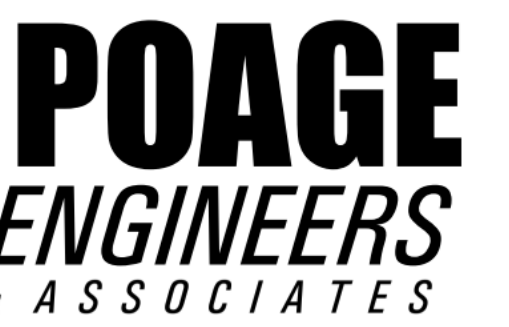
7 PERSPECTIVE - IDF3C SOUTHEAST
SCALE:

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#	DATE	DESCRIPTION
4	10/28/22	ADDENDUM 4

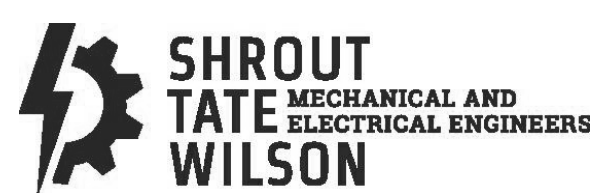


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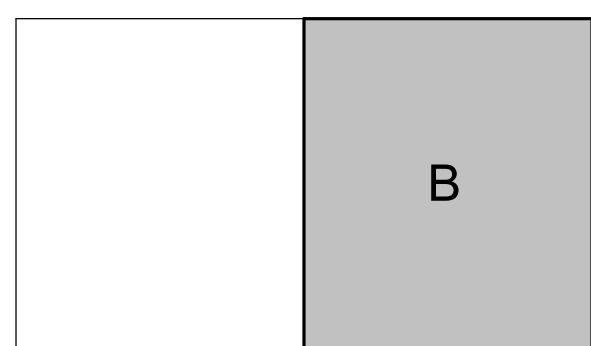


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Job Number 2150 PLAN
Drawn By JHS TRUE
Checked By RDB
Date 09/28/2022



ENLARGED UTILITY TRANSFORMER ROOM

ADD #4
10/28/2022

E400

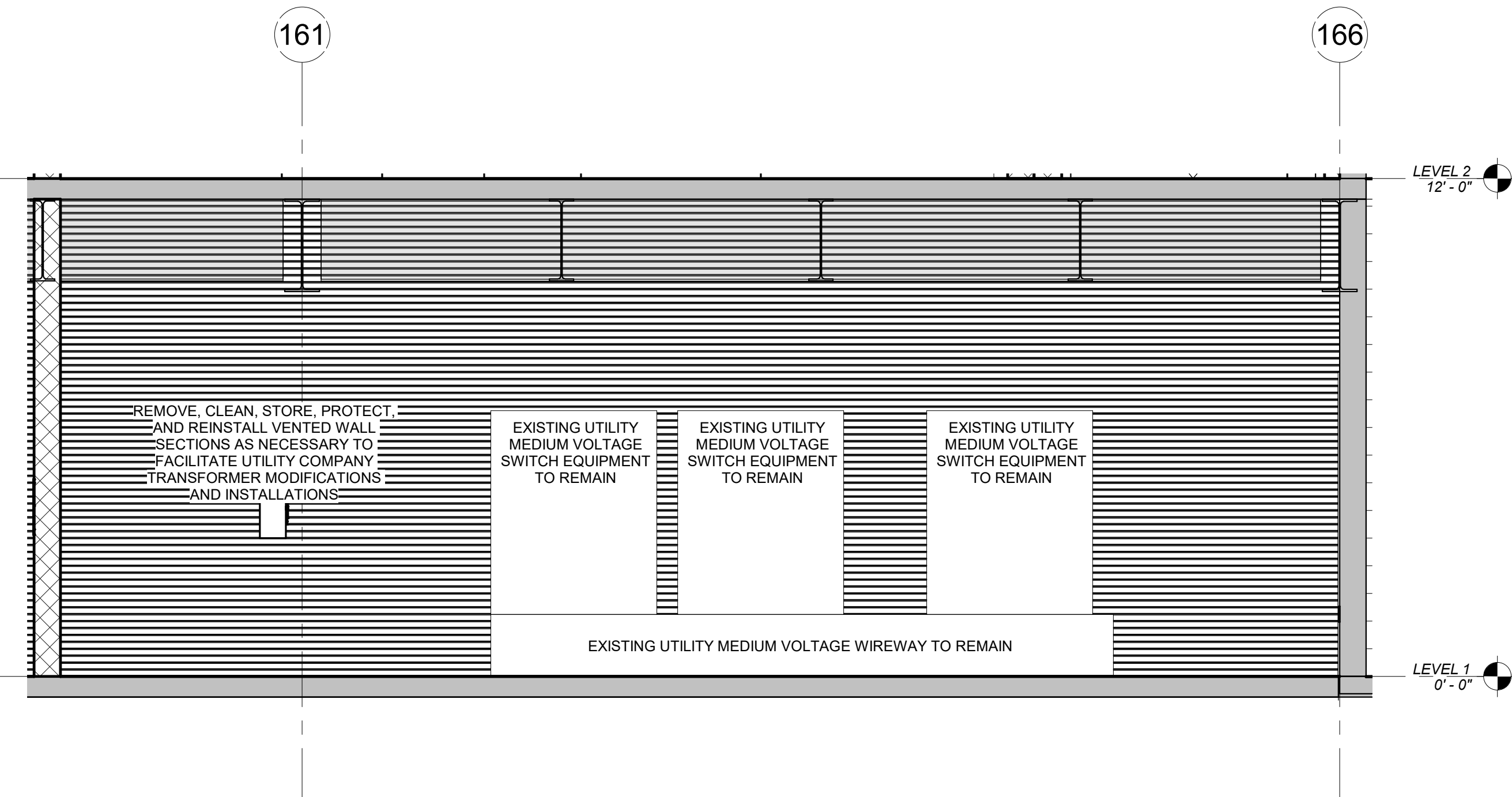
GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. REFER TO SHEETS E600, E601, AND E604 FOR ADDITIONAL REQUIREMENTS RELATED TO UTILITY TRANSFORMERS.

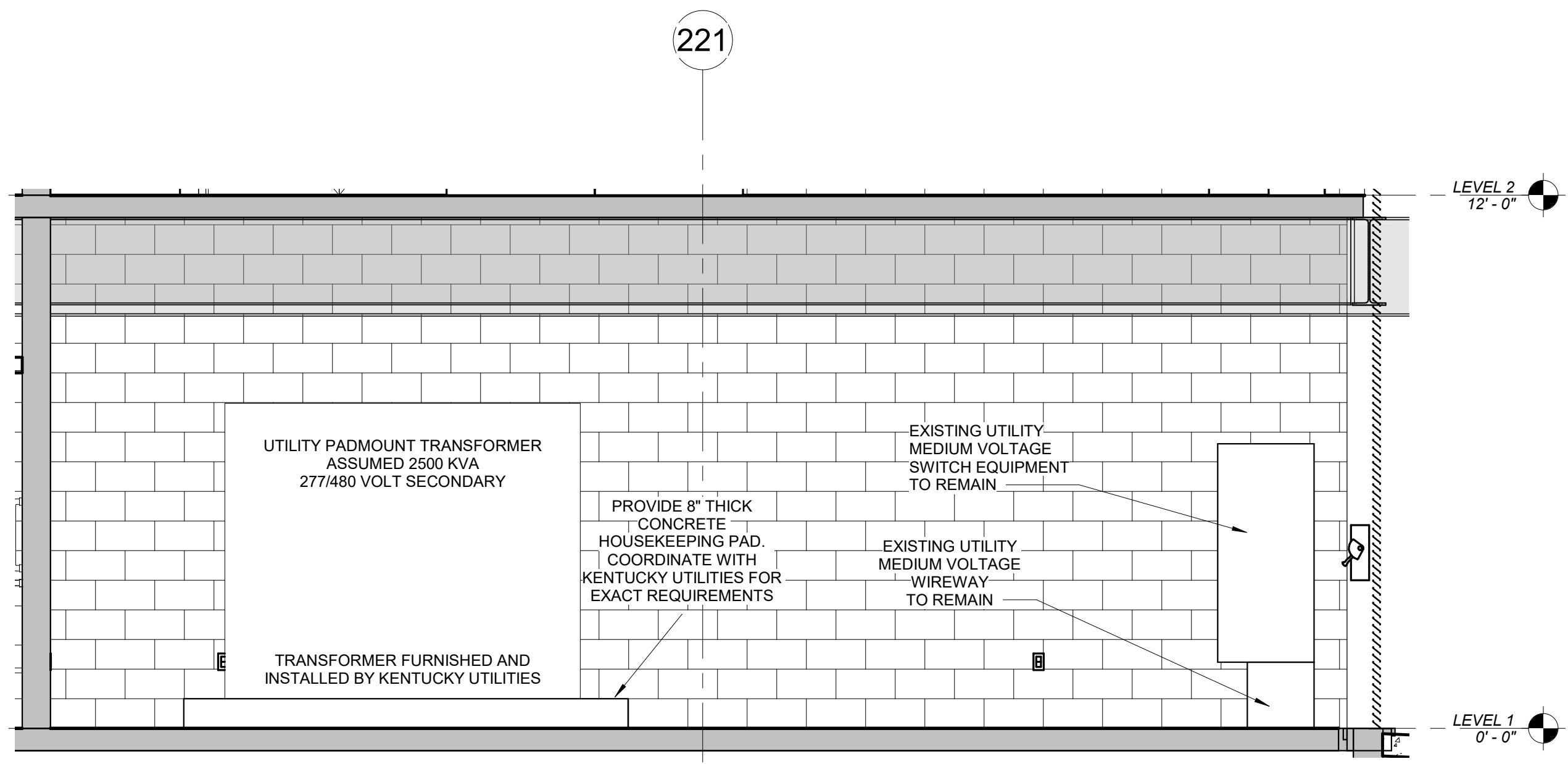
SHEET KEYNOTES

1. SAWCUT, TRENCH, AND PATCH EXISTING FLOOR AS REQUIRED TO FACILITATE PRIMARY AND SECONDARY CONNECTIONS TO UTILITY TRANSFORMERS.
2. EXISTING UTILITY MEDIUM VOLTAGE SWITCH EQUIPMENT MOUNTED ATOP EXISTING MEDIUM VOLTAGE WIREWAY TO REMAIN.
3. UTILITY COMPANY TRANSFORMER.
4. PROVIDE 8" THICK CONCRETE HOUSEKEEPING PAD, COORDINATE WITH KENTUCKY UTILITIES FOR EXACT REQUIREMENTS.
5. PROVIDE 480V, 30A, 3-POLE, NON-FUSIBLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE.
6. PROVIDE POWER CONNECTION TO EXISTING VENTILATION UNIT.

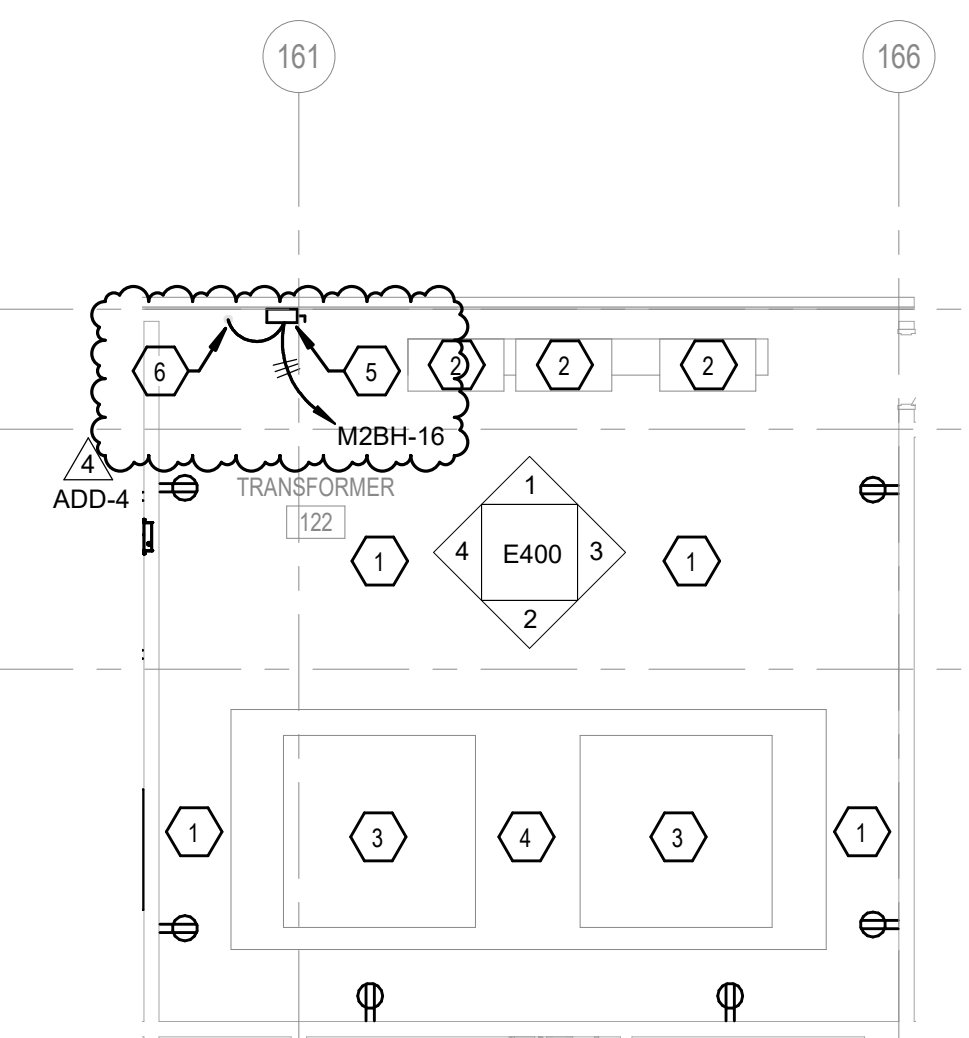
ADD-4



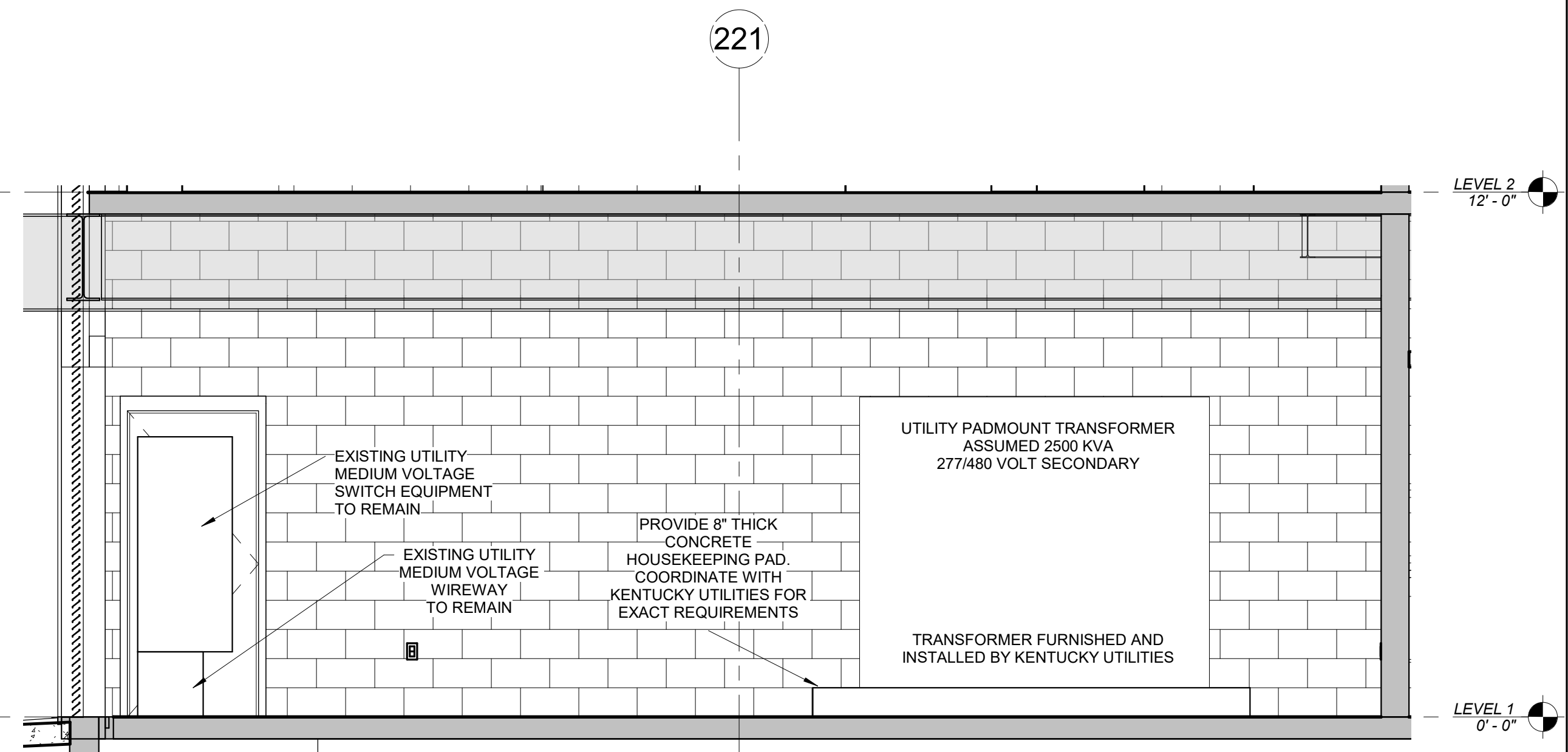
1 UTILITY TRANSFORMER VAULT - NORTH ELEVATION
SCALE: 3/8" = 1'-0"



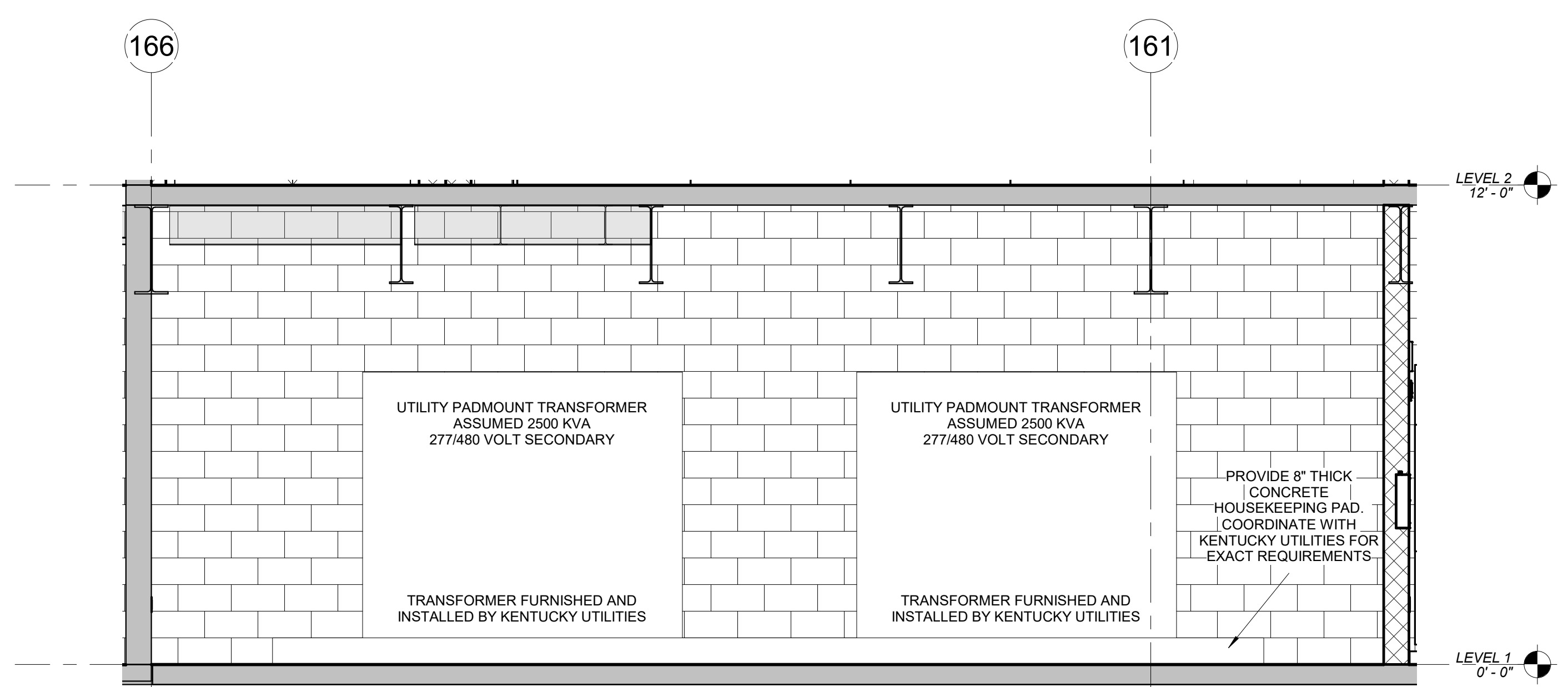
4 UTILITY TRANSFORMER VAULT - WEST ELEVATION
SCALE: 3/8" = 1'-0"



5 UTILITY TRANSFORMER VAULT ROOM 122
SCALE: 1/8" = 1'-0"

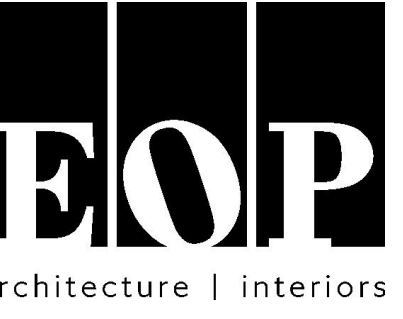


3 UTILITY TRANSFORMER VAULT - EAST ELEVATION
SCALE: 3/8" = 1'-0"

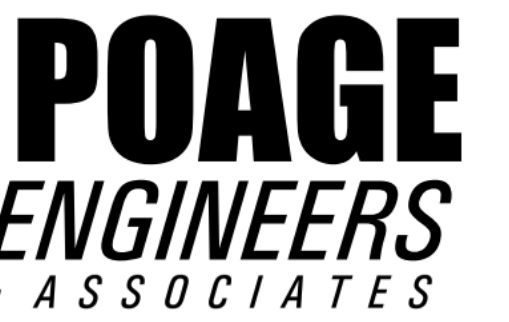


2 UTILITY TRANSFORMER VAULT - SOUTH ELEVATION
SCALE: 3/8" = 1'-0"

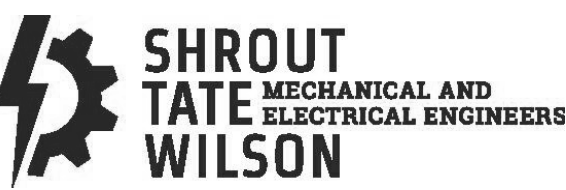
REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4



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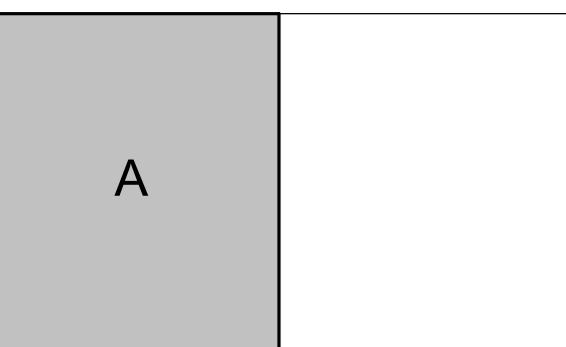


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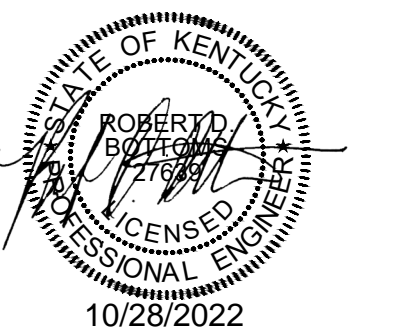


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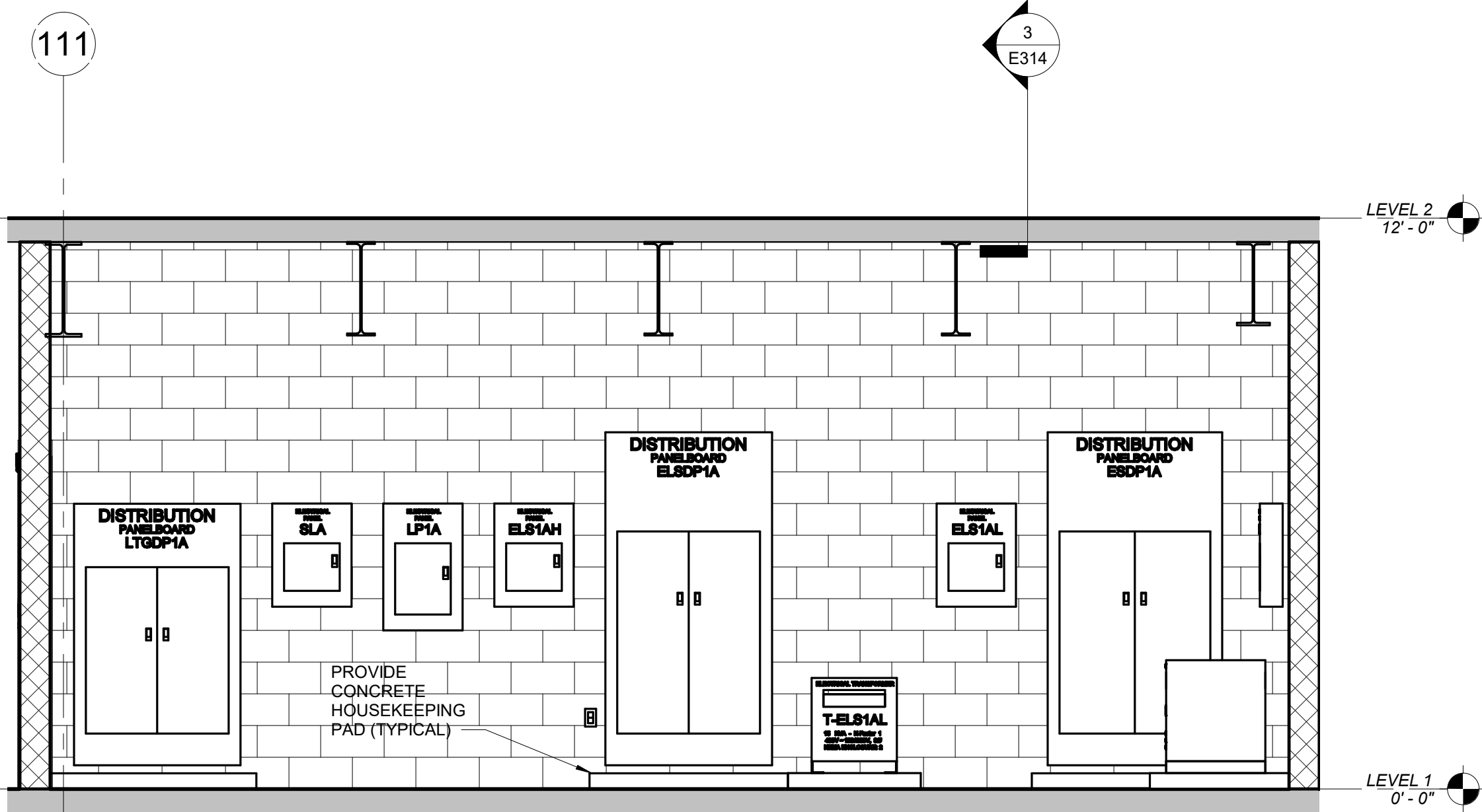
Job Number 2150
Drawn By JHS
Checked By RDB
Date 09/28/2022



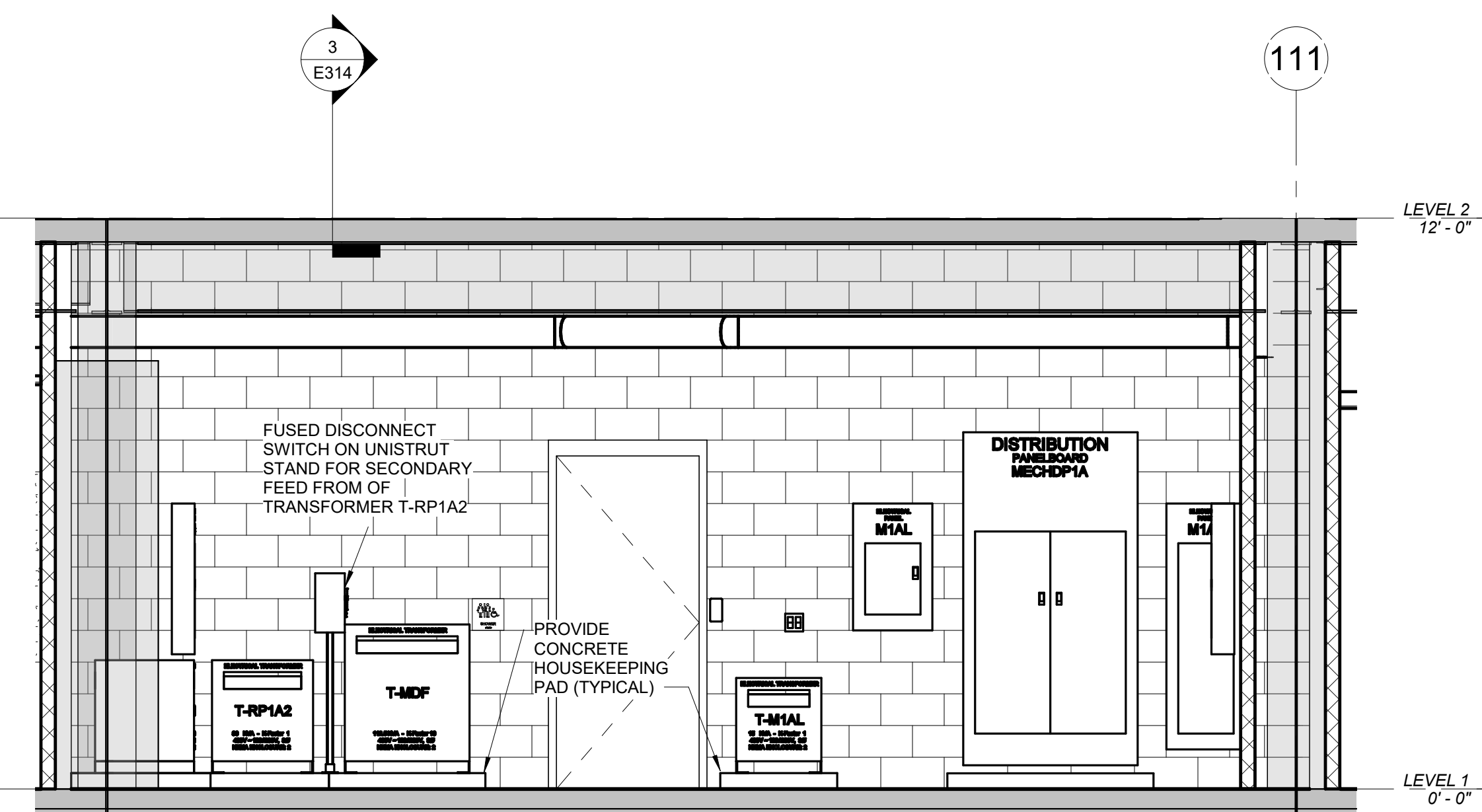
**ENLARGED
ELECTRICAL
PLANS/ELEVATIONS**

ADD #4
10/28/2022

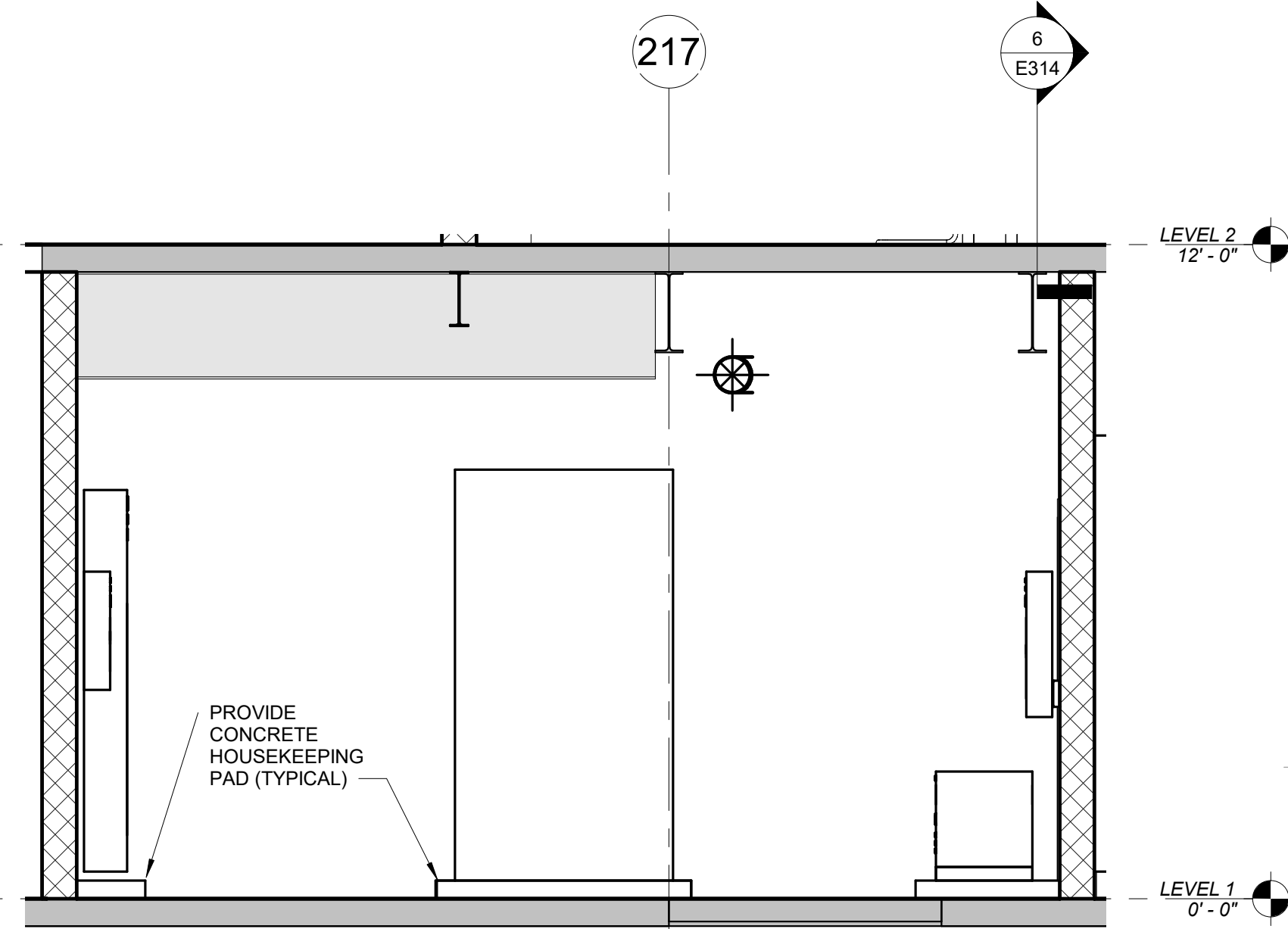
E401a



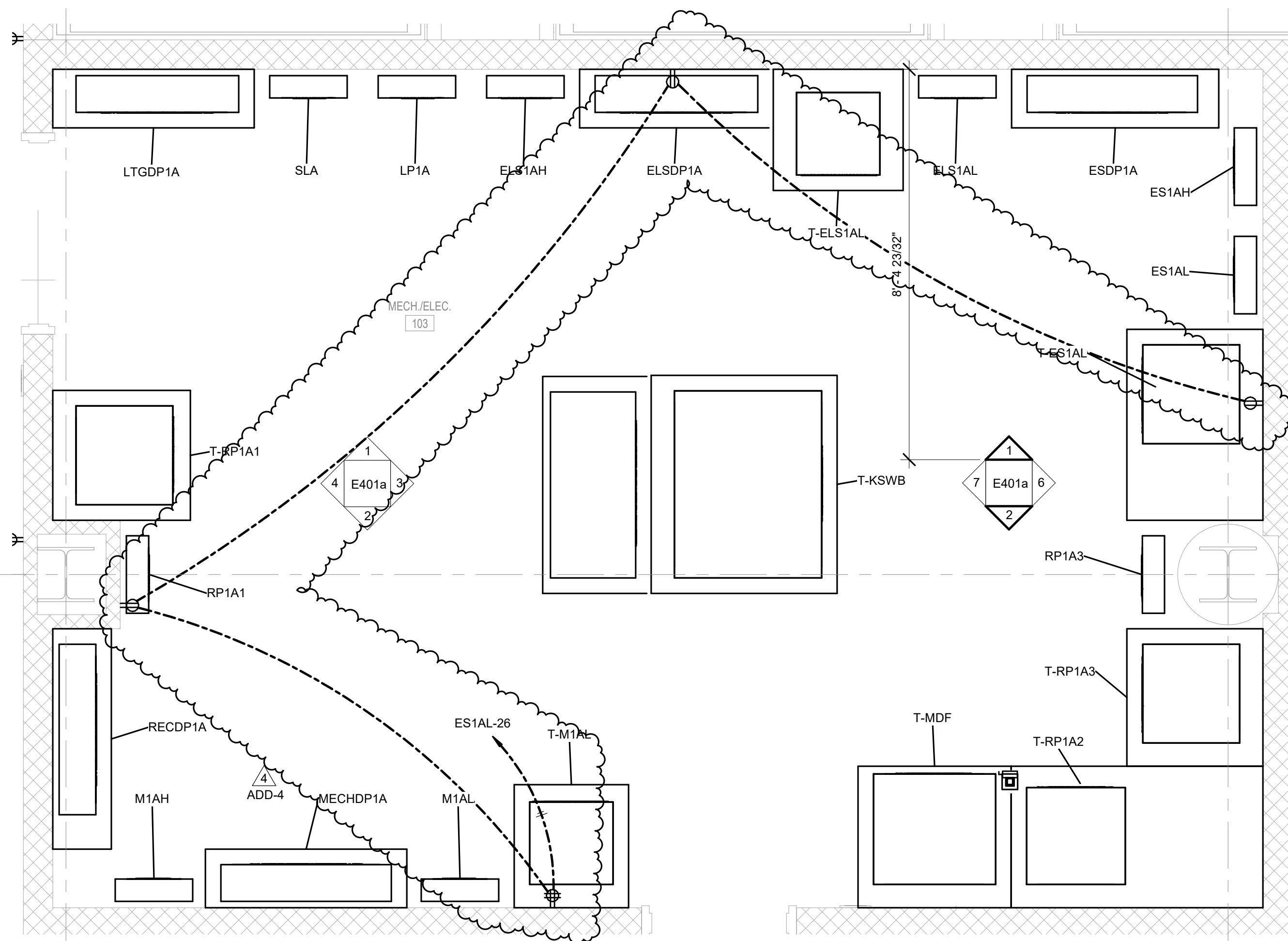
1 NORTH ELEVATION - MECH./ELEC. ROOM 103
SCALE: 3/8" = 1'-0"



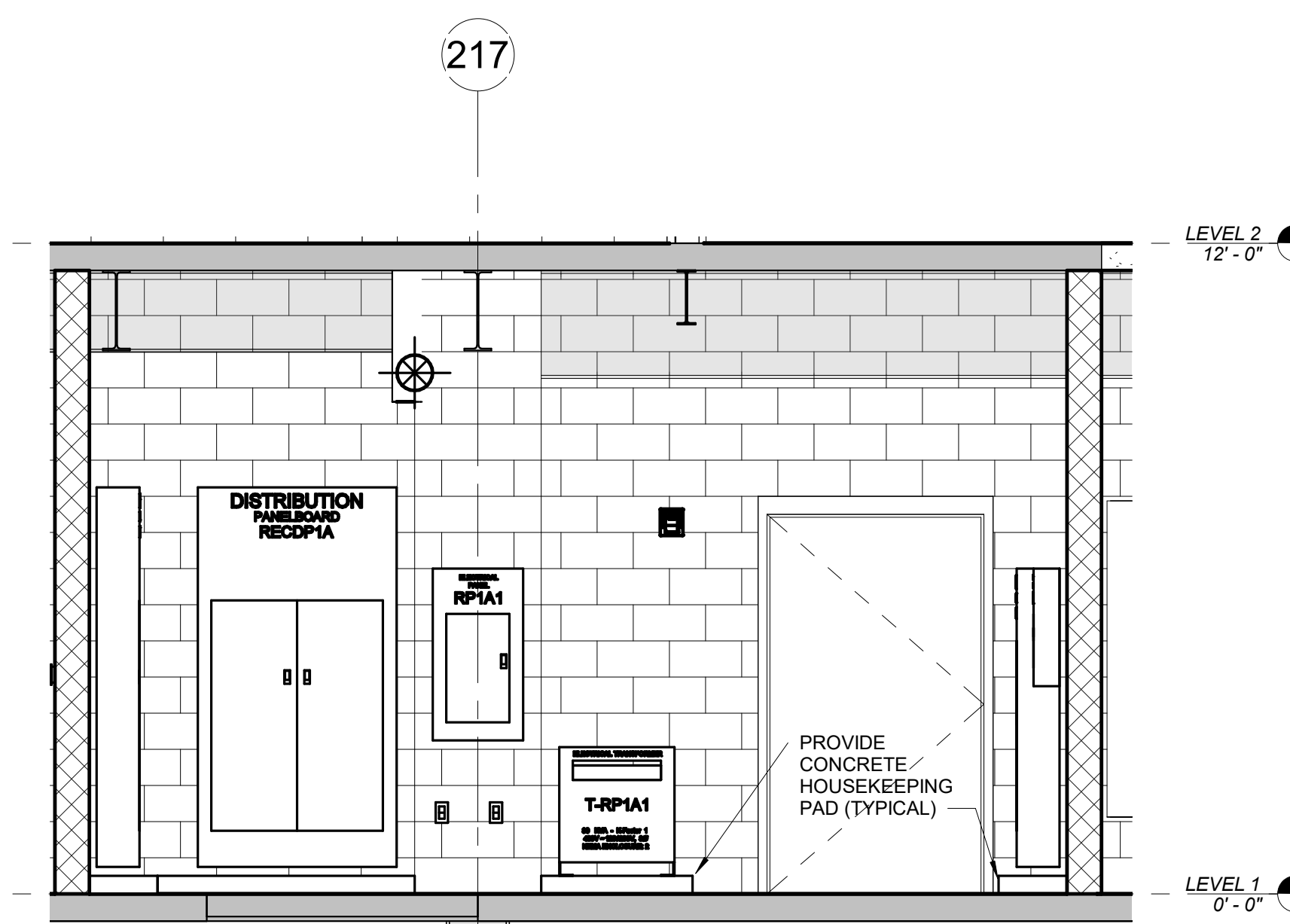
2 SOUTH ELEVATION - MECH./ELEC. ROOM 103
SCALE: 3/8" = 1'-0"



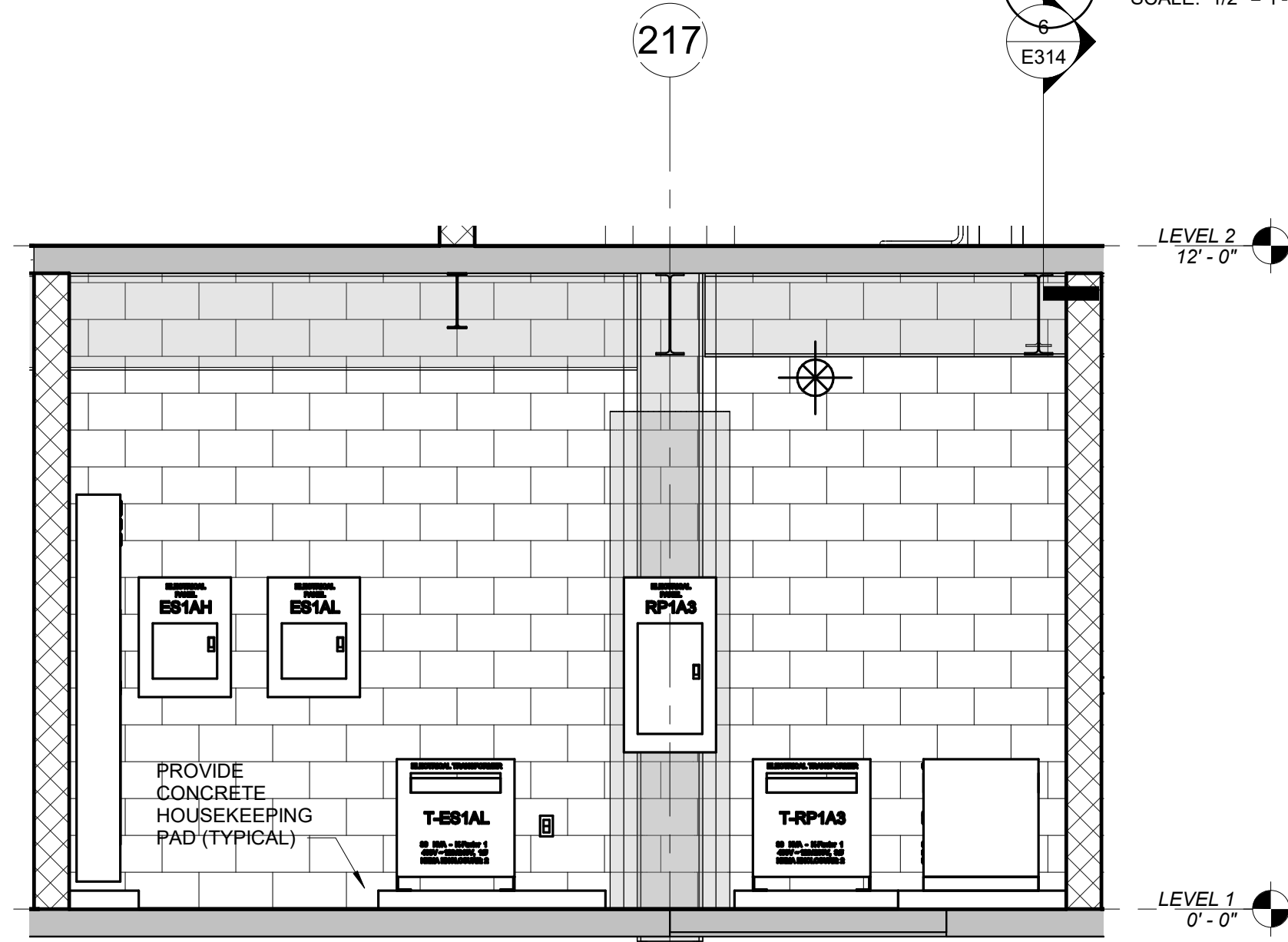
3 CENTRAL EAST ELEVATION - MECH./ELEC. ROOM 103
SCALE: 3/8" = 1'-0"



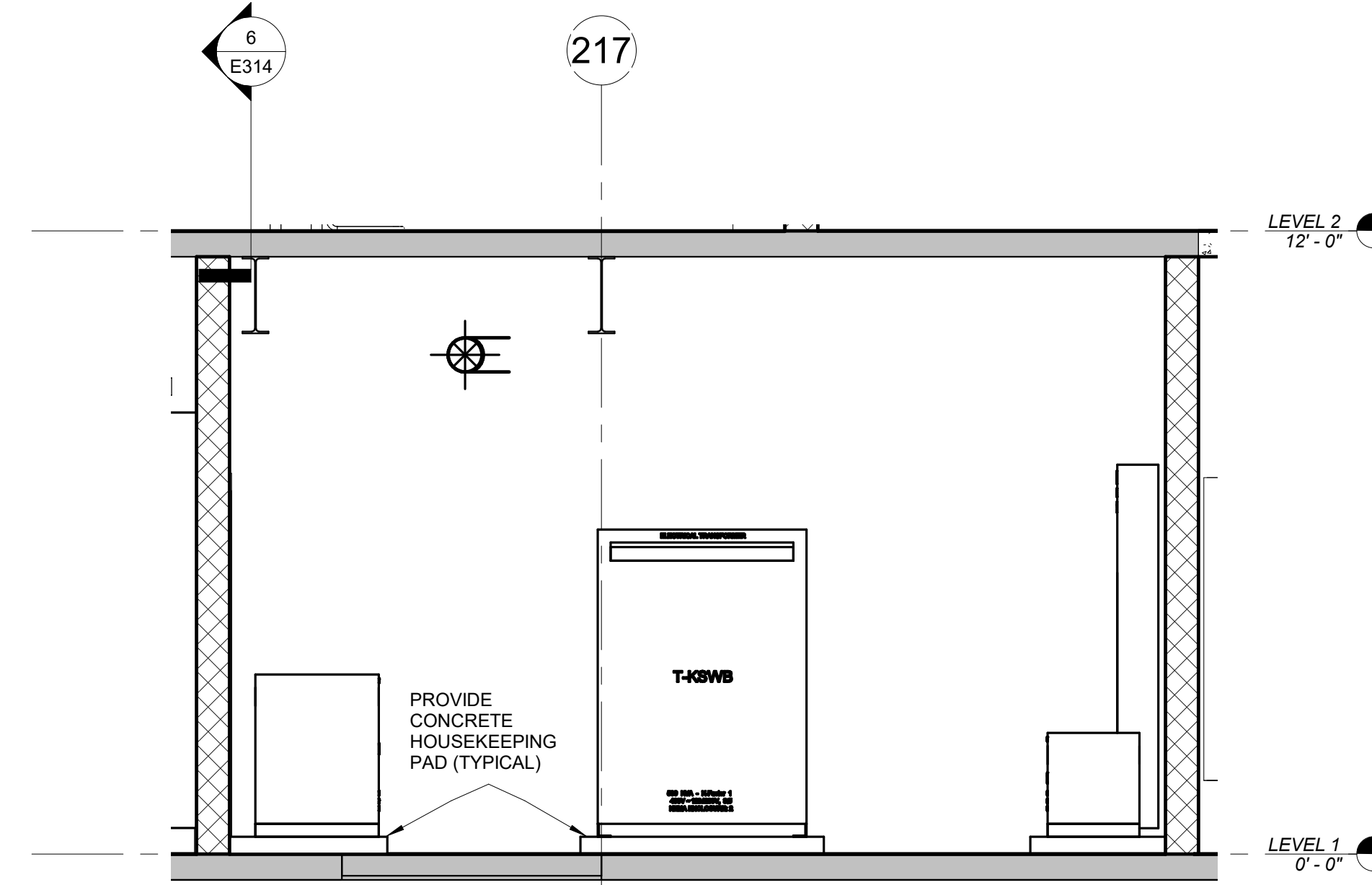
5 ENLARGED MECHANICAL ROOM 103
SCALE: 1/2" = 1'-0"



4 WEST ELEVATION - MECH./ELEC. ROOM 103
SCALE: 3/8" = 1'-0"



6 EAST ELEVATION - MECH./ELEC. ROOM 103
SCALE: 3/8" = 1'-0"



7 CENTRAL WEST ELEVATION - MECH./ELEC. ROOM 103
SCALE: 3/8" = 1'-0"

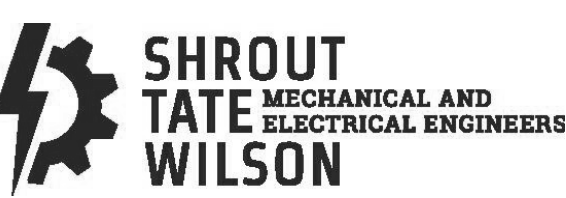
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#	DATE DESCRIPTION
4	10/28/22 ADDENDUM 4



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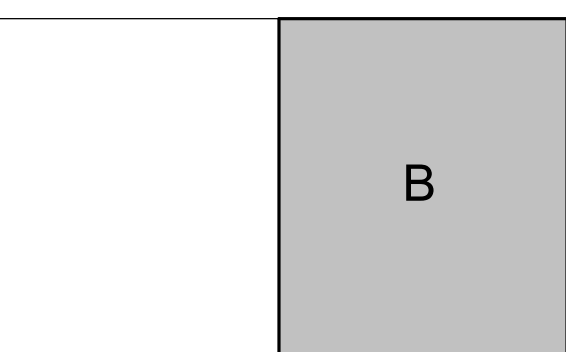


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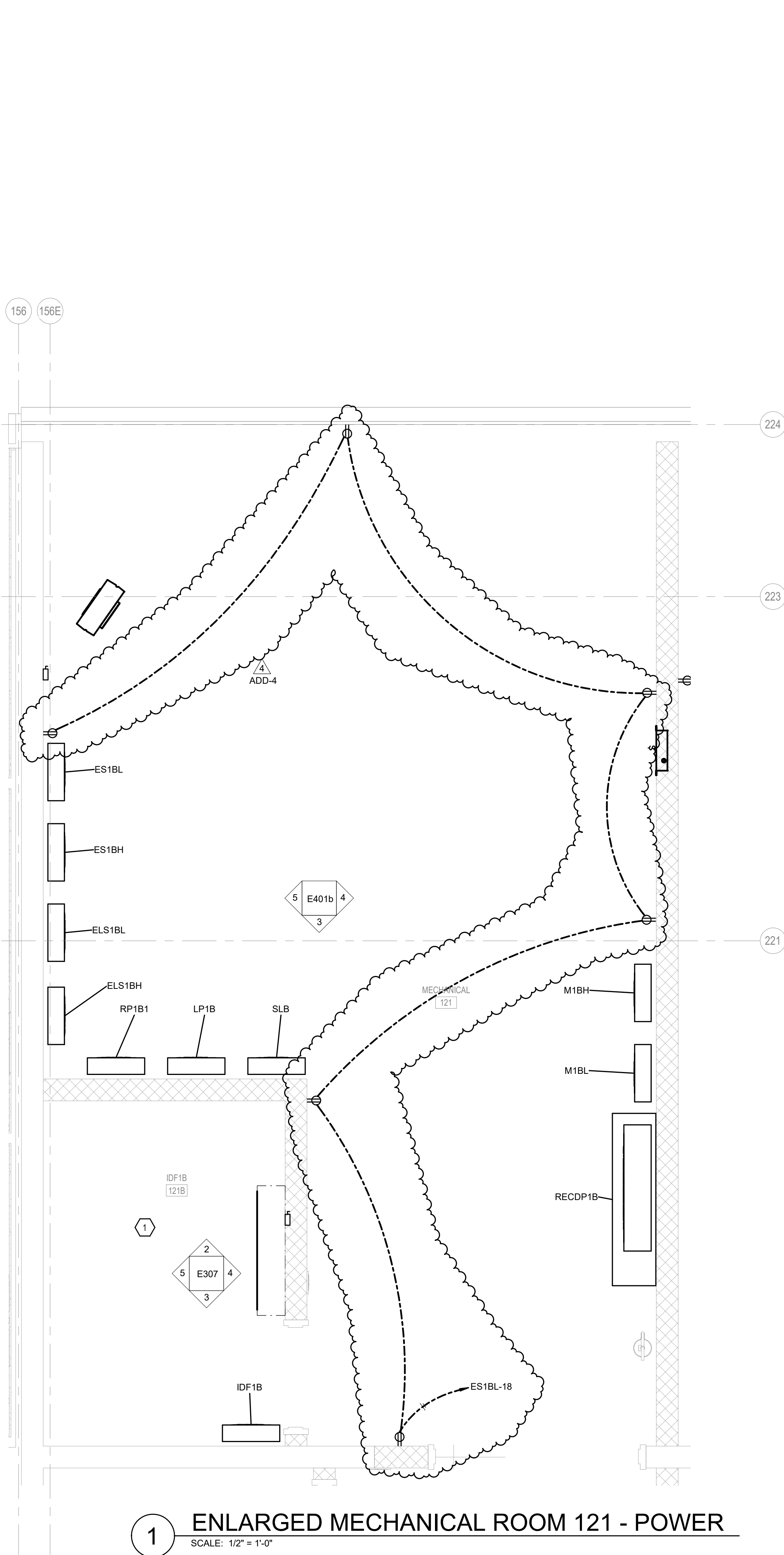
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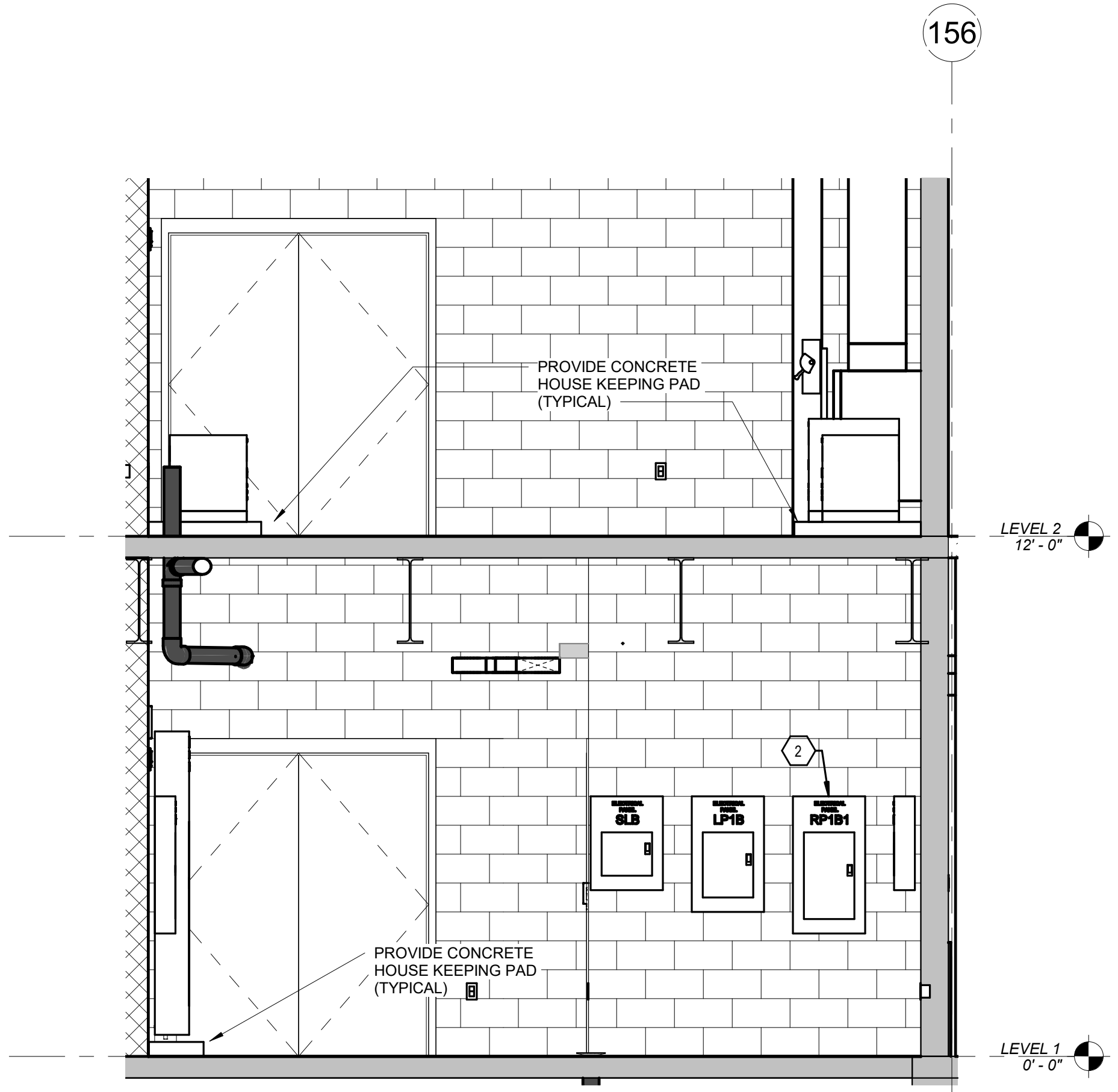


**ENLARGED
ELECTRICAL
PLANS/ELEVATIONS**

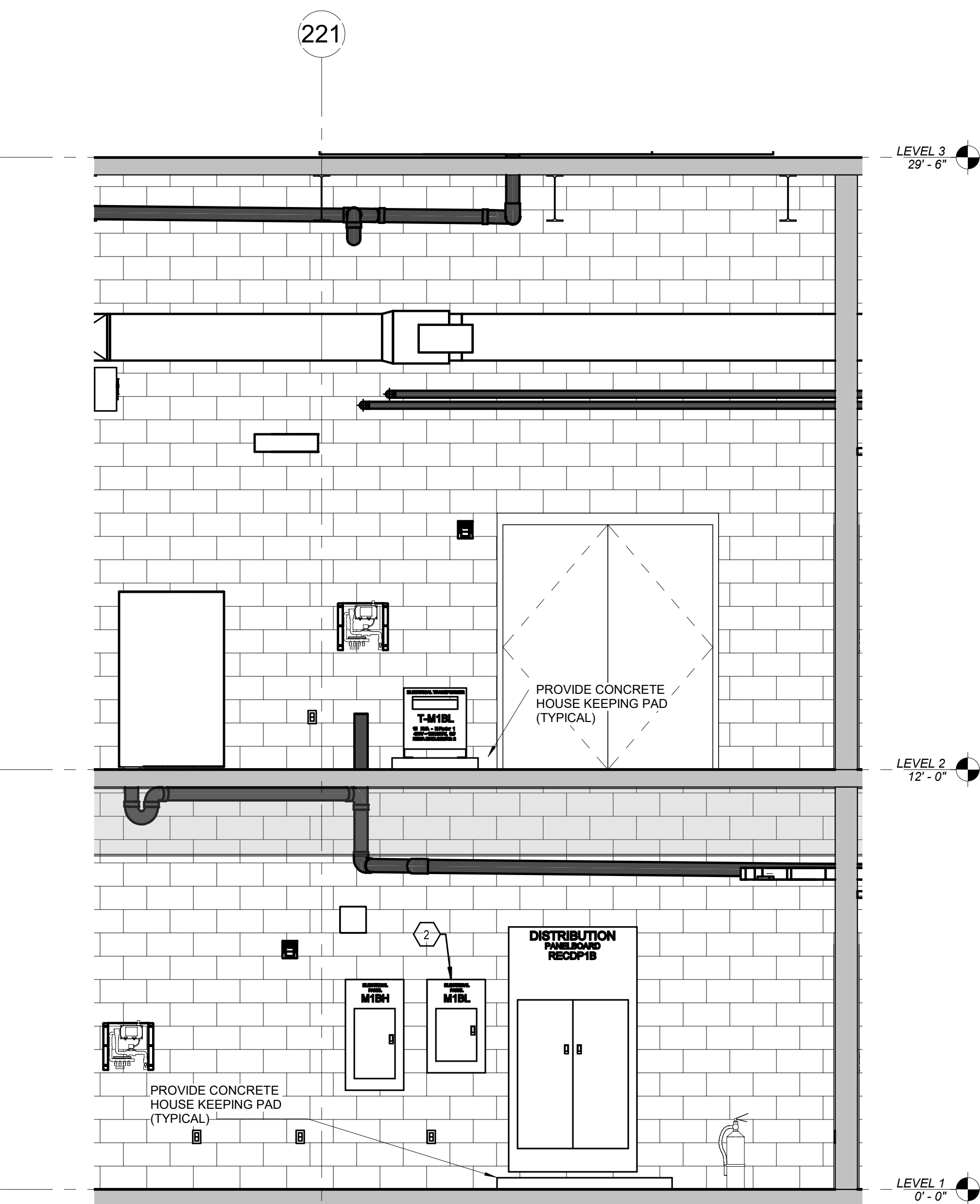
ADD #4
10/28/2022
E401b



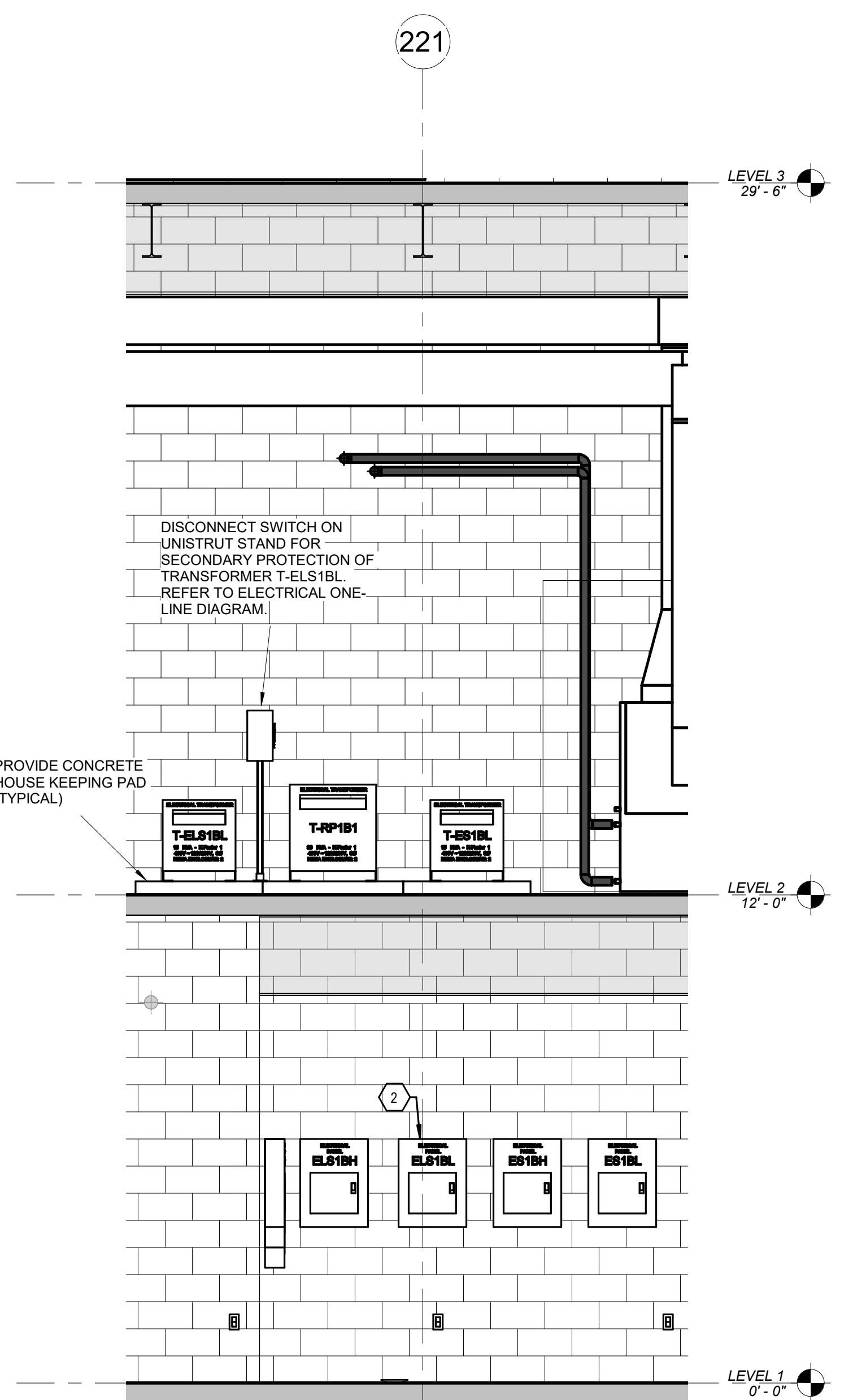
1 ENLARGED MECHANICAL ROOM 121 - POWER
SCALE: 1/2" = 1'-0"



3 SOUTH ELEVATION - MECHANICAL ROOM 121
SCALE: 3/8" = 1'-0"



4 EAST ELEVATION - MECHANICAL ROOM 121
SCALE: 3/8" = 1'-0"



5 WEST ELEVATION - MECHANICAL ROOM 121
SCALE: 3/8" = 1'-0"

SHEET KEYNOTES

- ALL CIRCUITING REQUIRED WITHIN IDF ROOM AS SHOWN ON ENLARGED SYSTEMS PLANS. REFER TO E300 SERIES DRAWINGS FOR ENLARGED PLANS.
- THE TRANSFORMER SERVING THIS PANEL IS LOCATED ON THE FLOOR ABOVE AS SHOWN AND THE TRANSFORMER LOCATION HAS BEEN POSITIONED TO COMPLY WITH NEC TAP RULES. FIELD COORDINATE TRANSFORMER LOCATION TO ENSURE SECONDARY CONDUCTORS FROM TRANSFORMER DO NOT EXCEED 10' LENGTH.

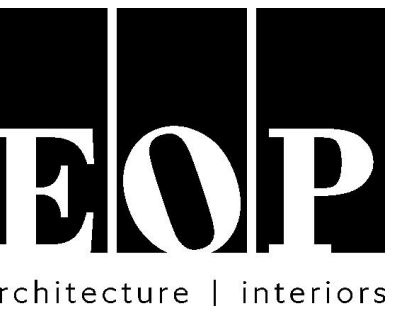
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SCHOOL**

BG# 22-167

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Lexington, KY 40508

BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4



PROJECT TEAM

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Lexington, KY 40507
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ENGINEERS
& ASSOCIATES**

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Structural Engineers
880 Sparta Ct. Ste. 200
Lexington, KY 40504

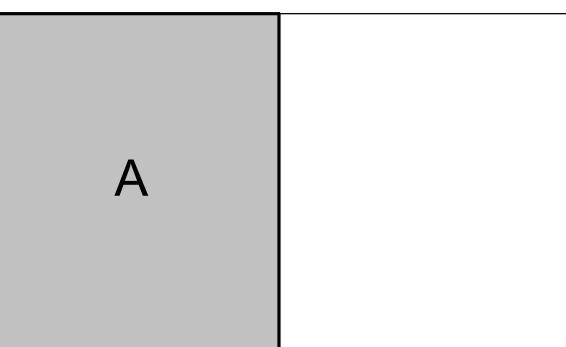
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WILSON**

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MEP Engineers
628 Winchester Rd.
Lexington, KY 40505

**element
design**

Element Design, PLLC.
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Lexington, KY 40508

KEYPLAN

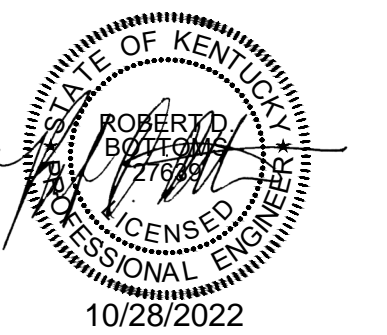


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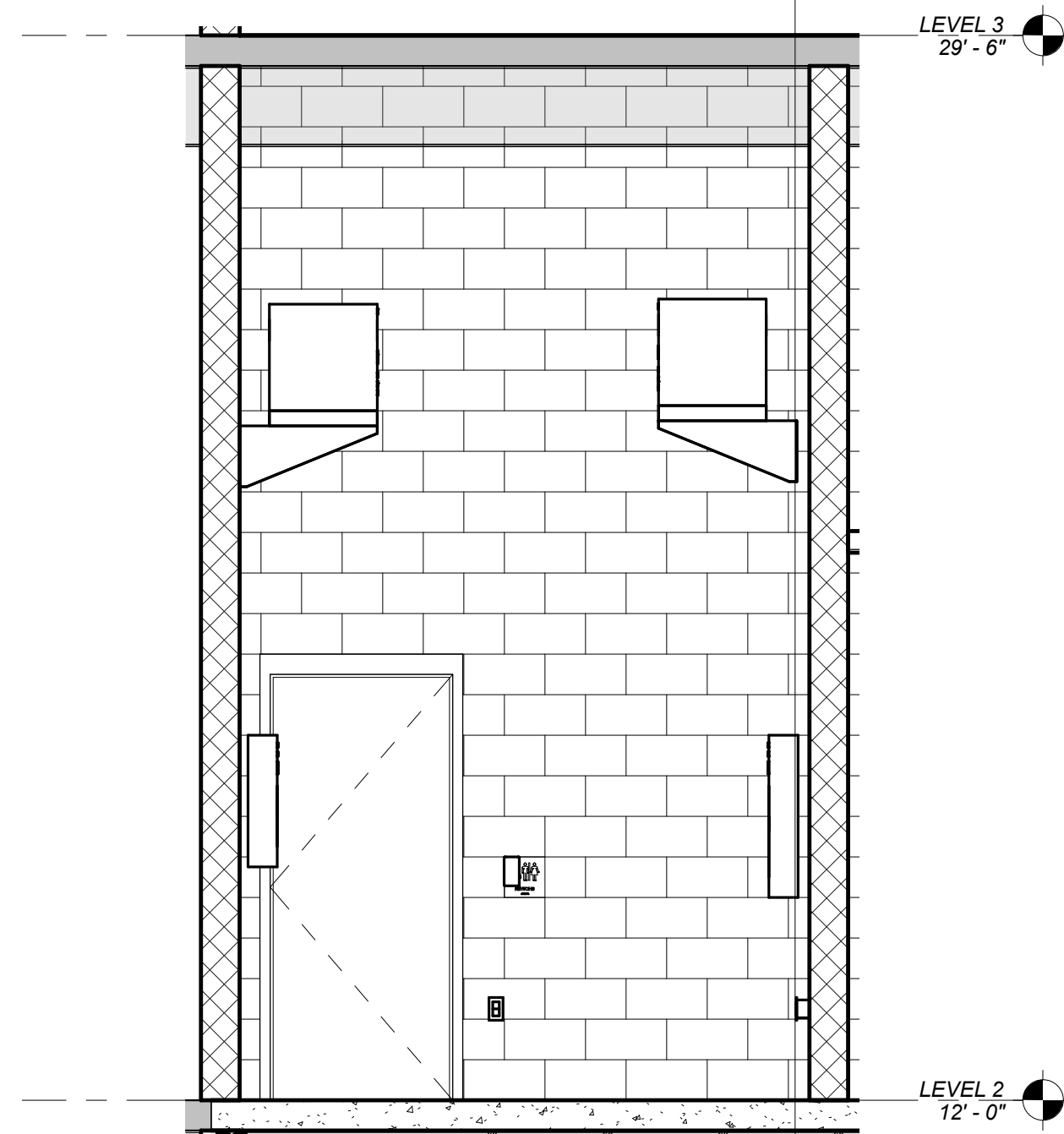
Job Number 2150
Drawn By JHS
Checked By RDB
Date 09/28/2022



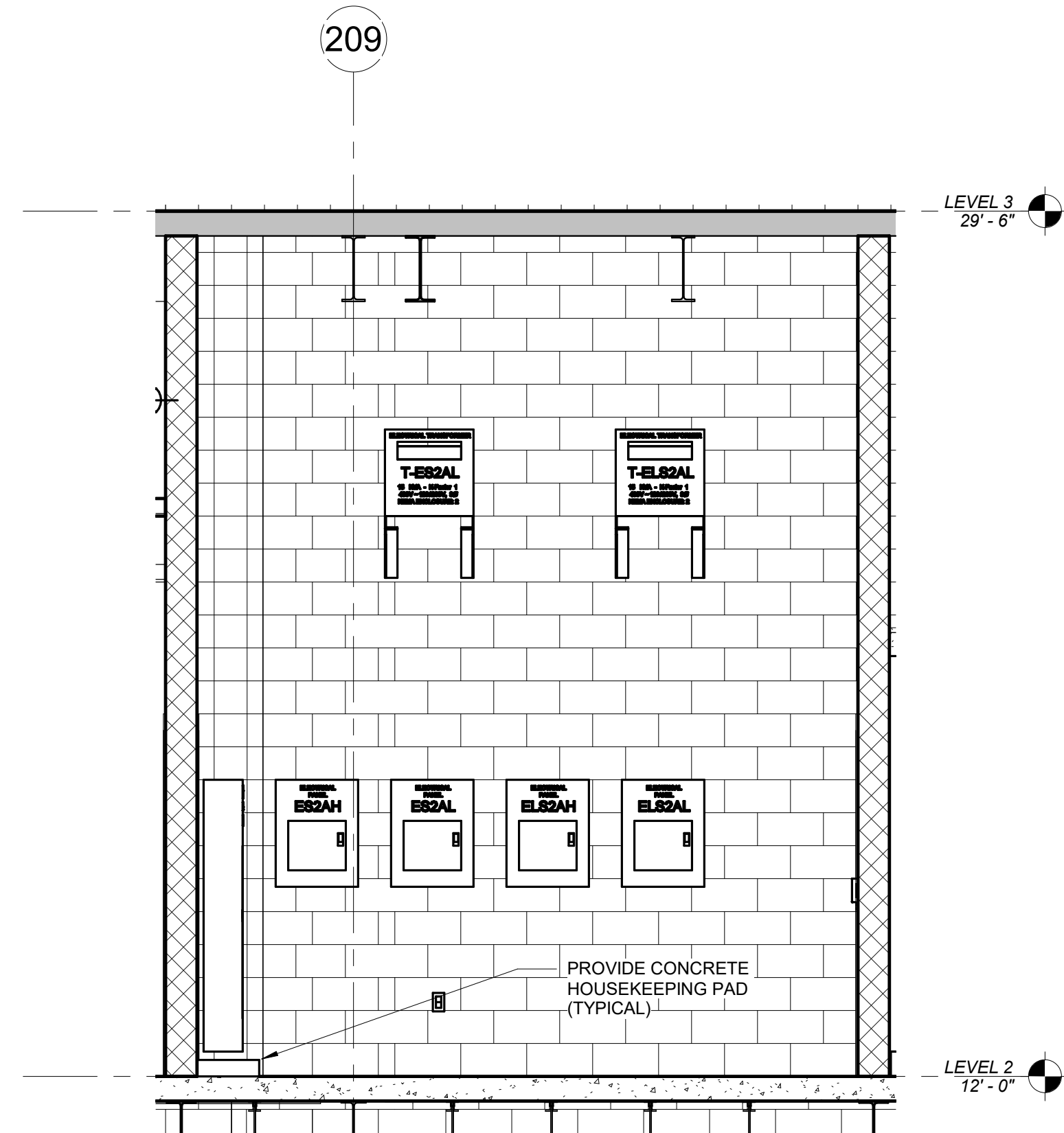
**ENLARGED
ELECTRICAL
PLANS/ELEVATIONS**

ADD #4
10/28/2022

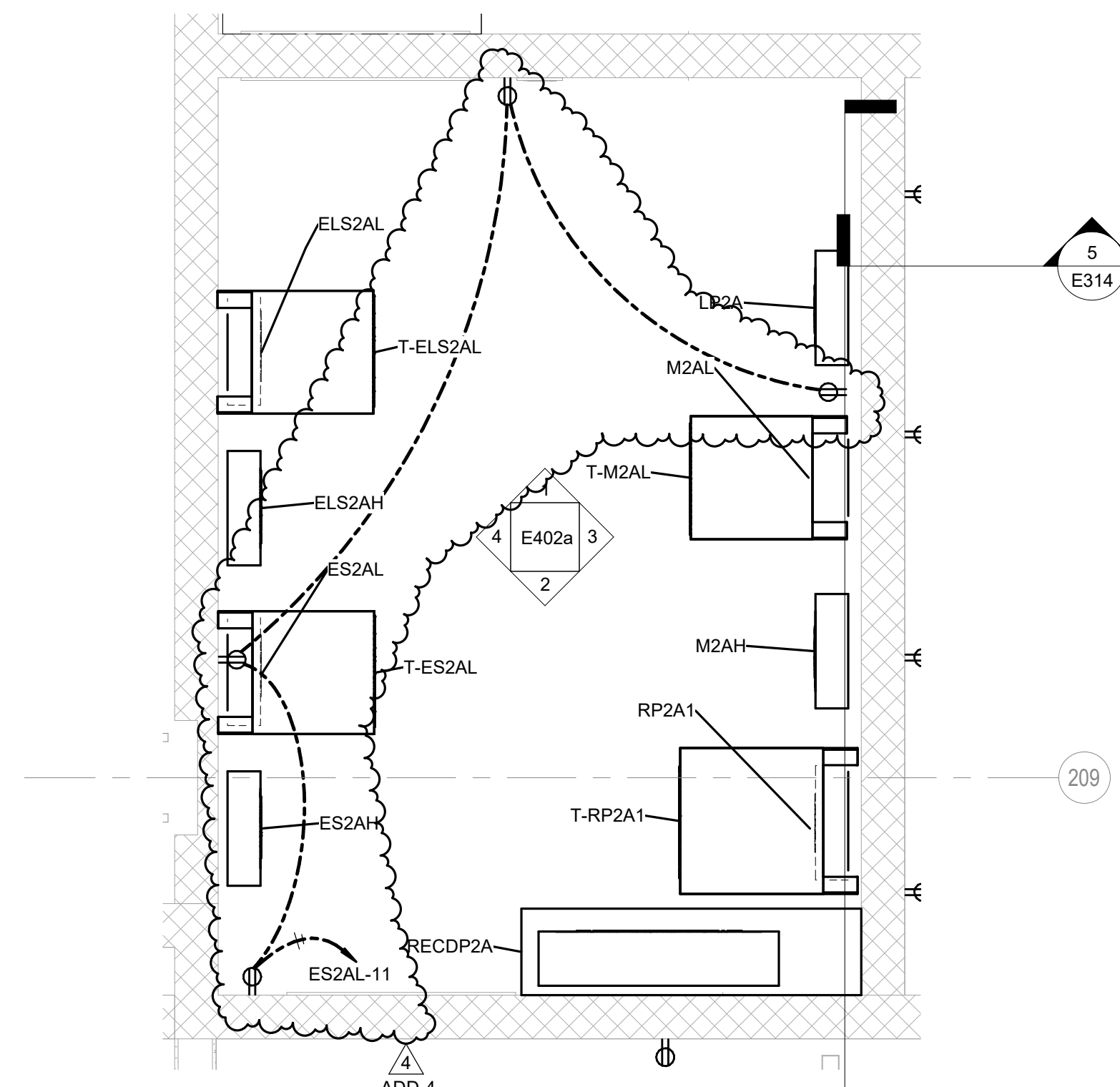
E402a



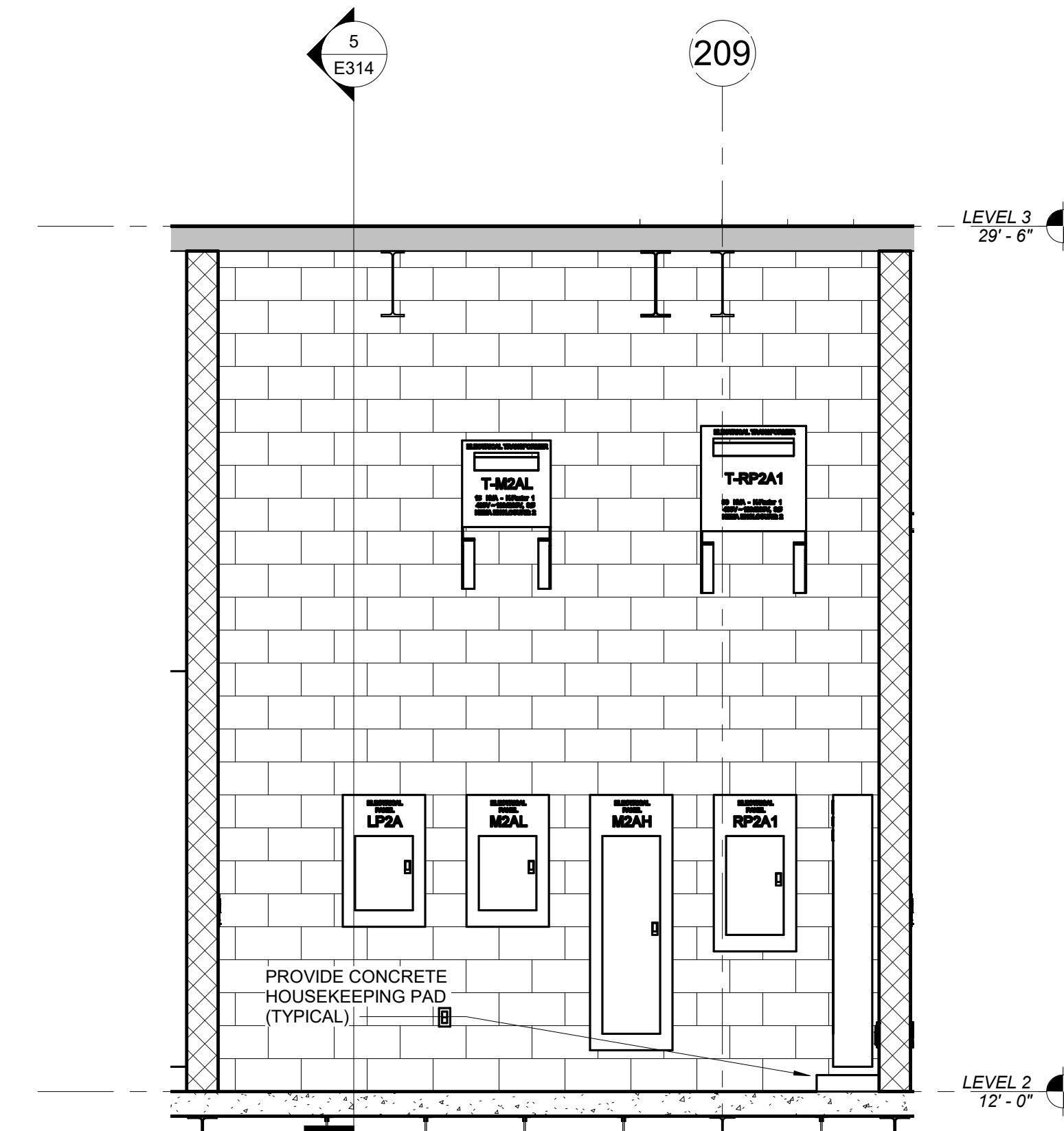
1 NORTH ELEVATION - ELEC. ROOM 205
SCALE: 3/8" = 1'-0"



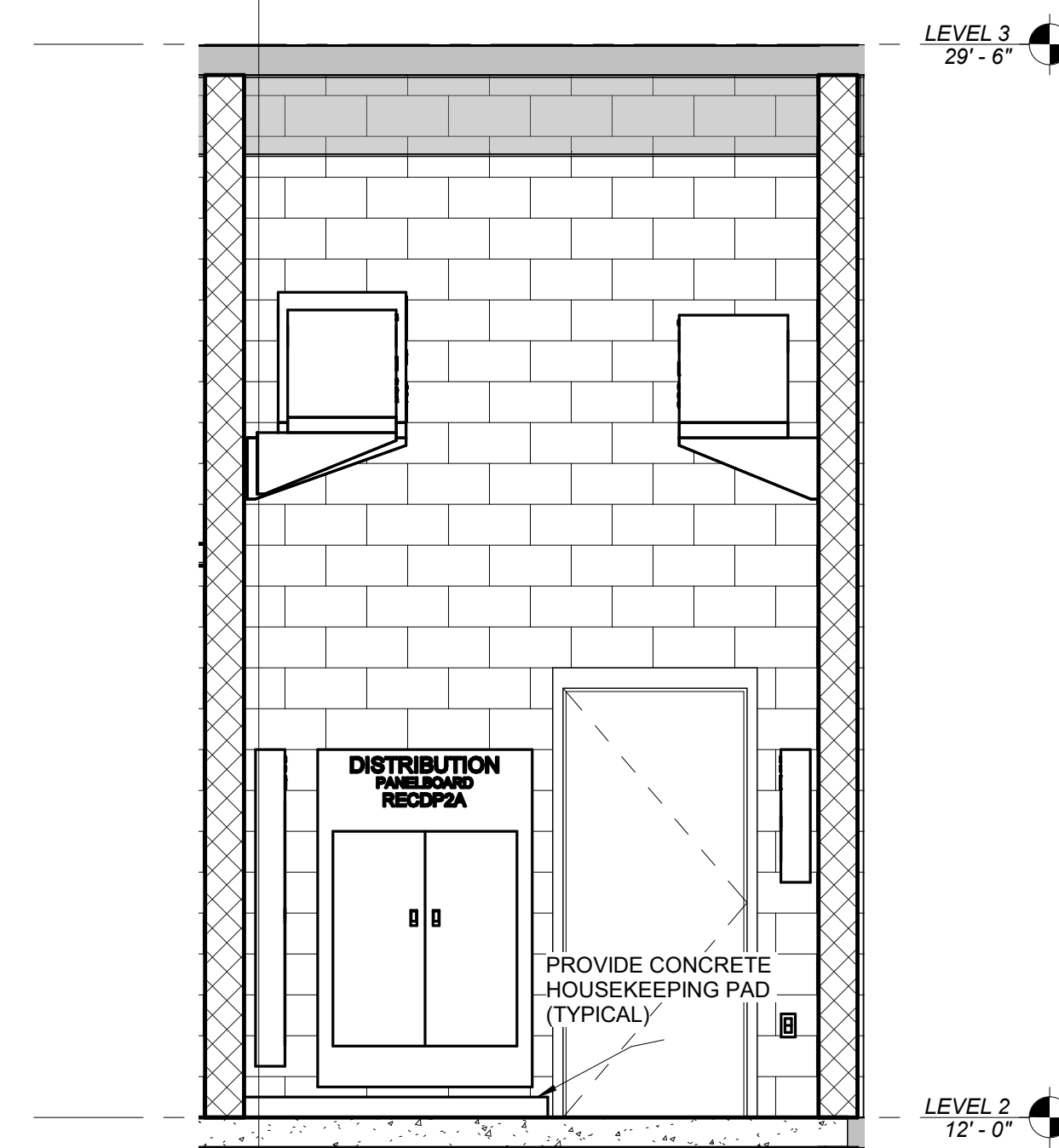
4 WEST ELEVATION - ELEC. ROOM 205
SCALE: 3/8" = 1'-0"



5 ENLARGED ELEC. ROOM 205 - POWER
SCALE: 1/2" = 1'-0"

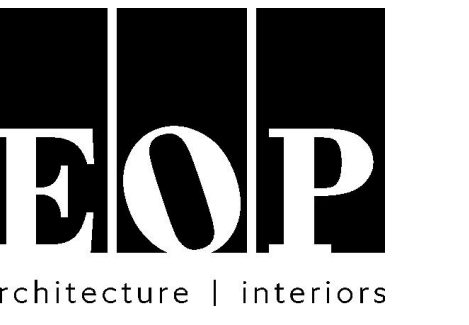


3 EAST ELEVATION - ELEC. ROOM 205
SCALE: 3/8" = 1'-0"



2 SOUTH ELEVATION - ELEC ROOM 205
SCALE: 3/8" = 1'-0"

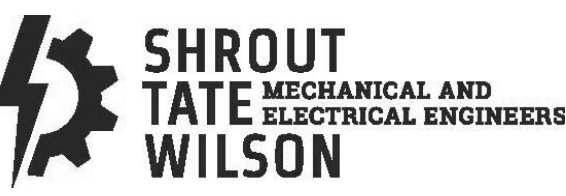
REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4



PROJECT TEAM
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Structural Engineers
880 Sparta Ct. Ste. 200
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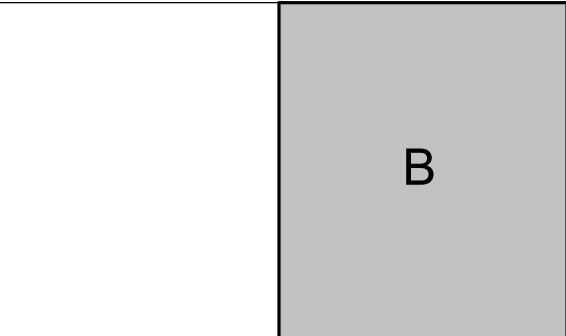


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MEP Engineers
628 Winchester Rd.
Lexington, KY 40505



Element Design, PLLC.
366 S. Broadway
Lexington, KY 40508

KEYPLAN

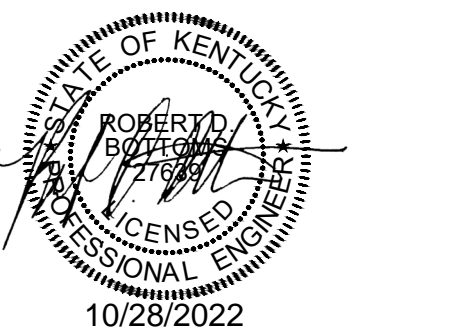


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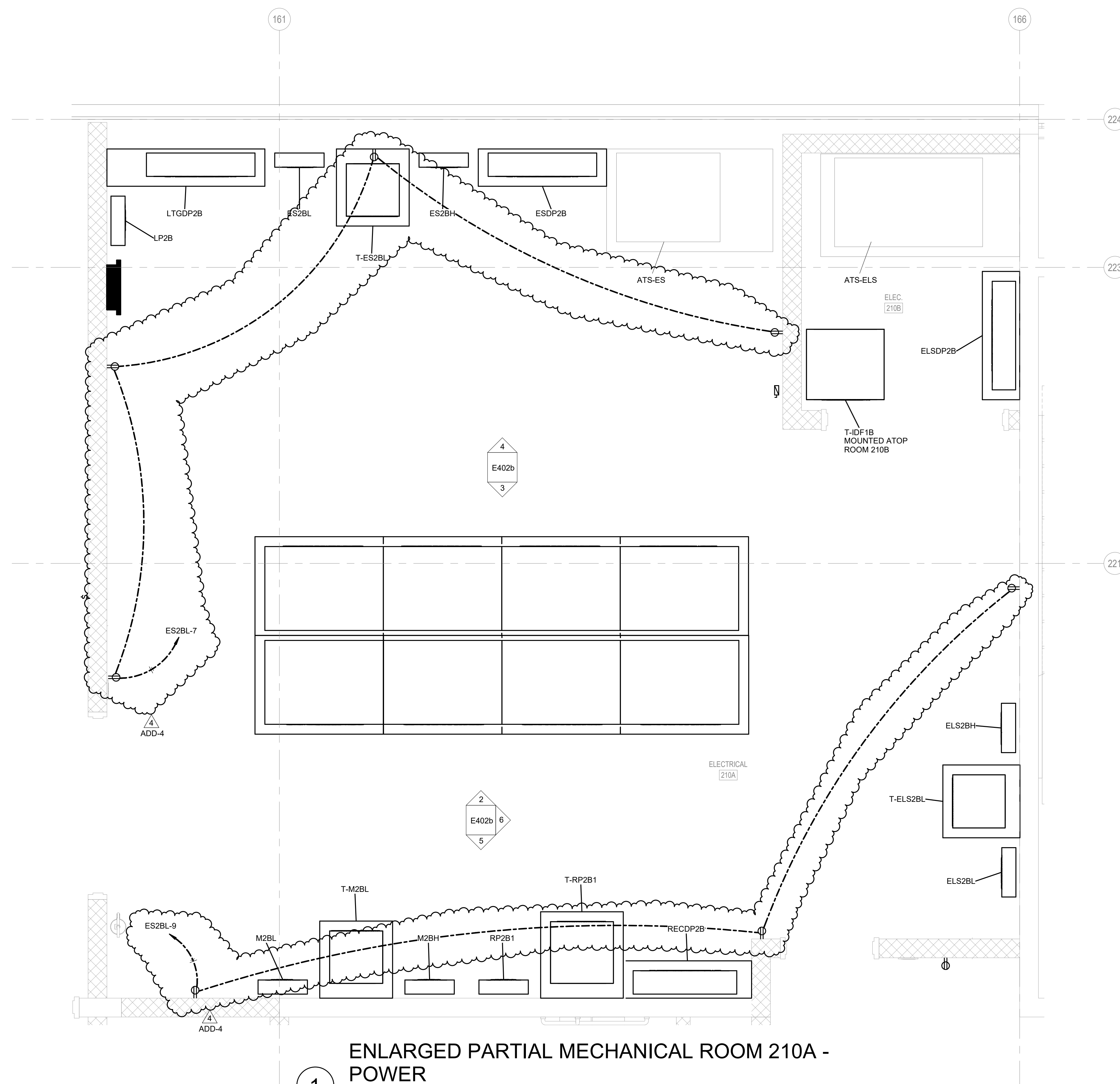
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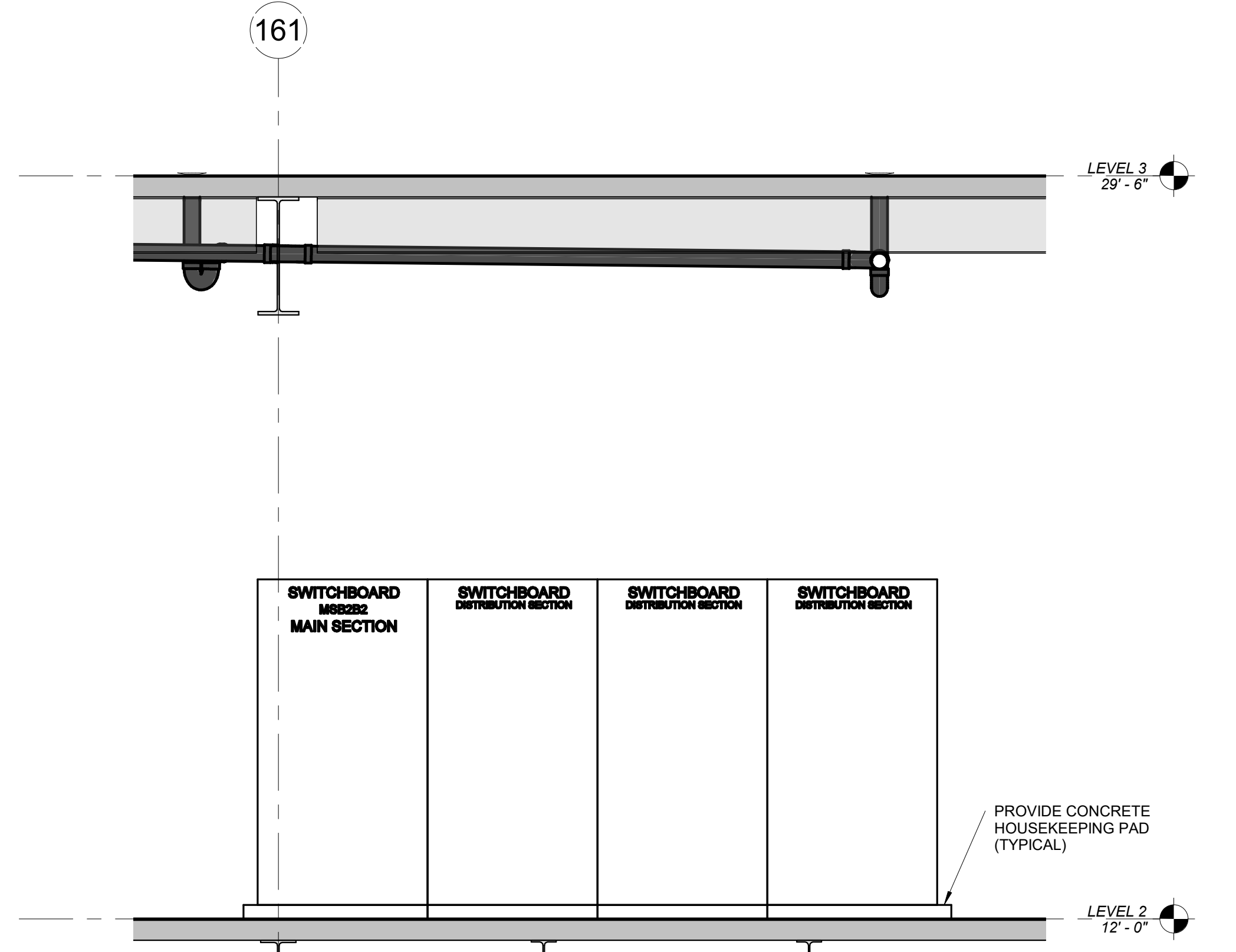


ENLARGED ELECTRICAL PLANS/ELEVATIONS

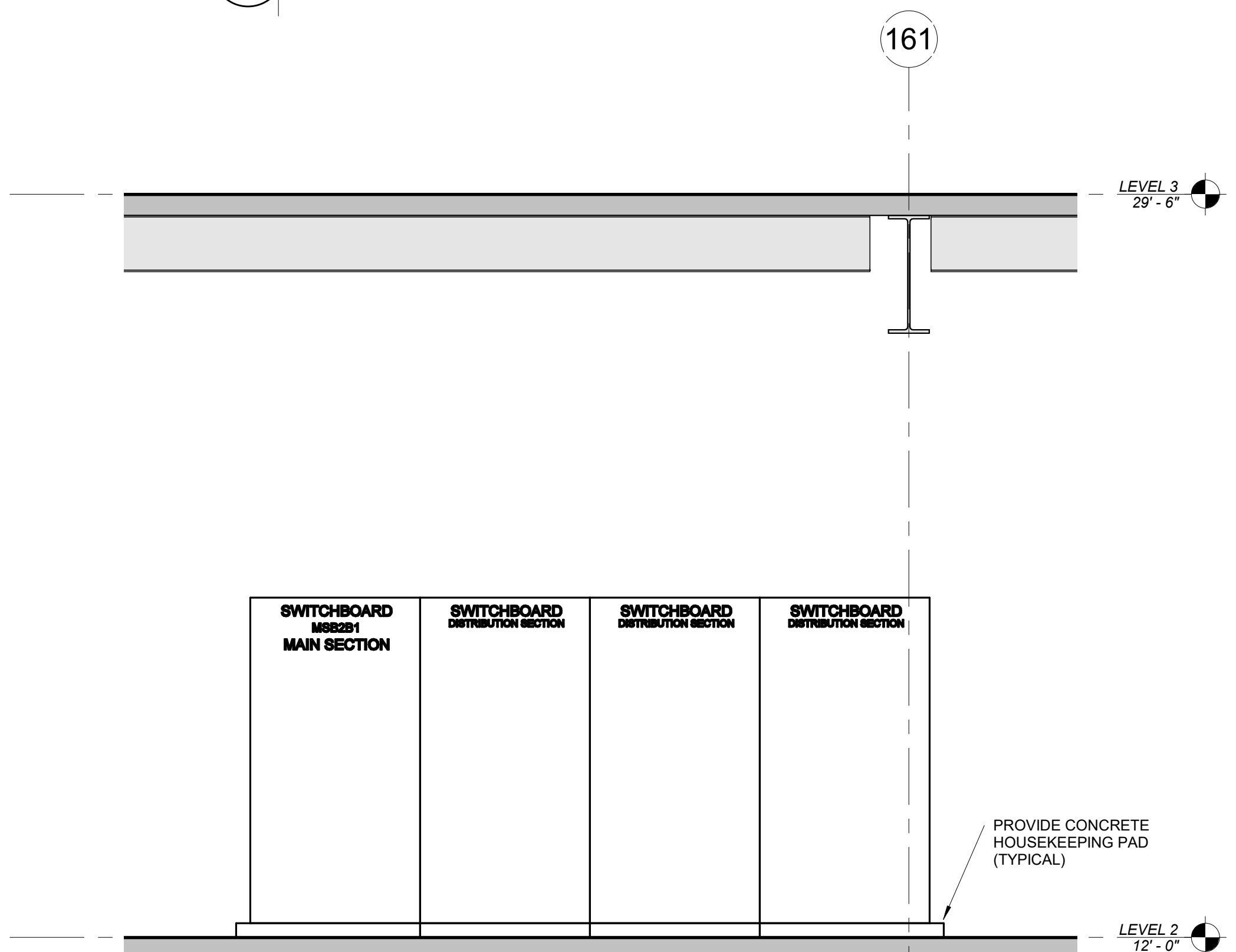
ADD #4
10/28/2022
E402b



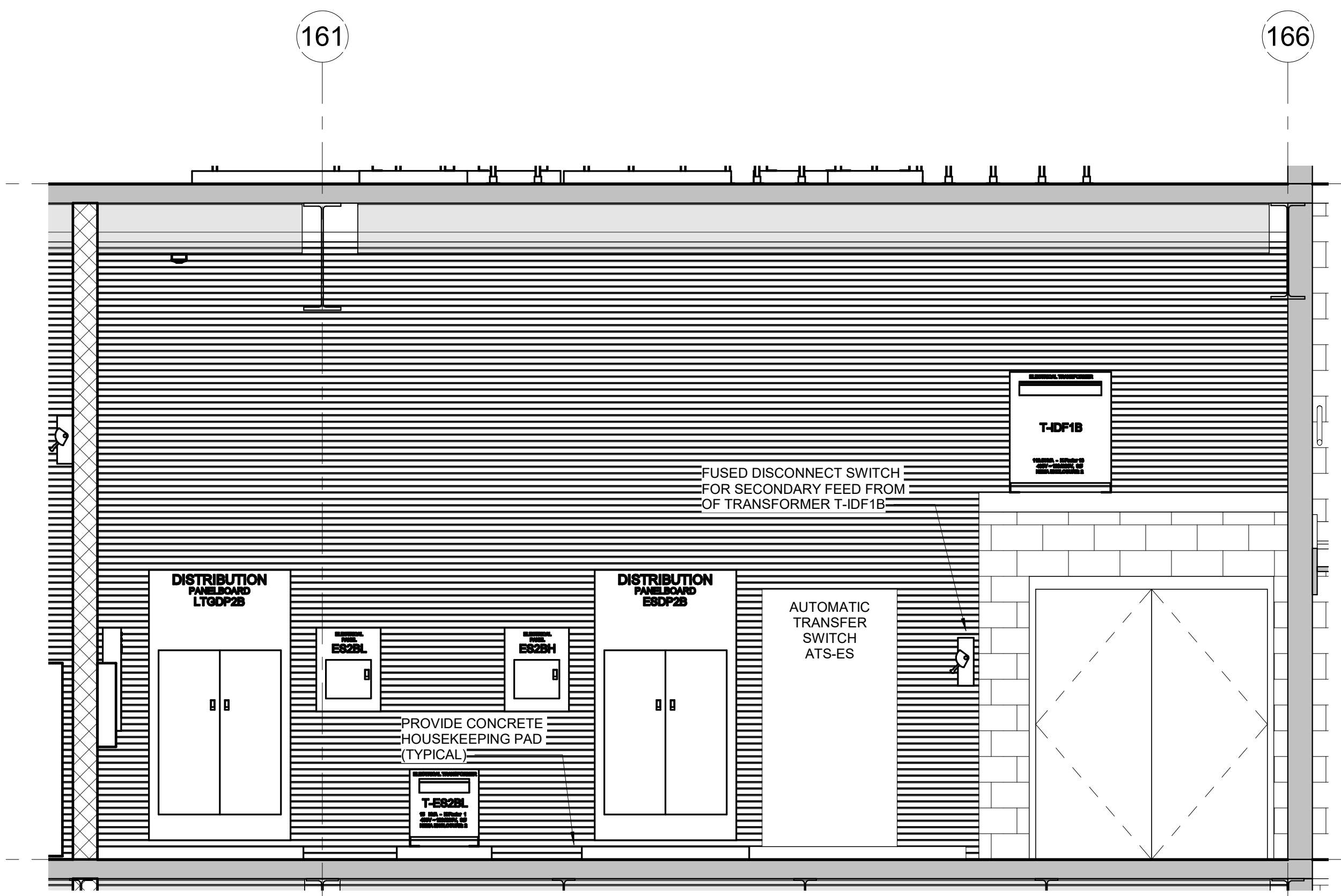
1 ENLARGED PARTIAL MECHANICAL ROOM 210A - POWER
SCALE: 1/2" = 1'-0"



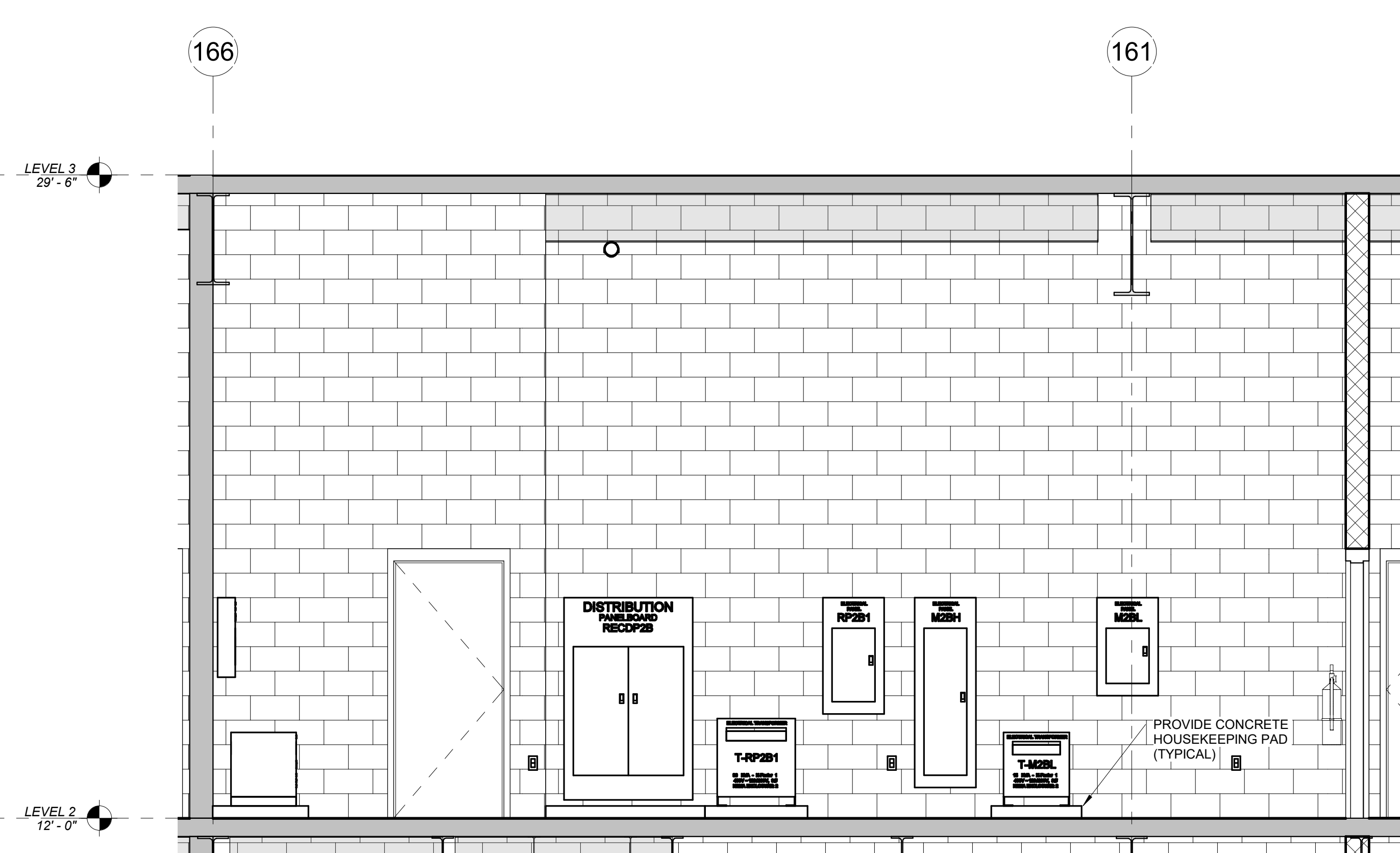
2 SWITCHBOARD MSB2B2 ELEVATION
SCALE: 3/8" = 1'-0"



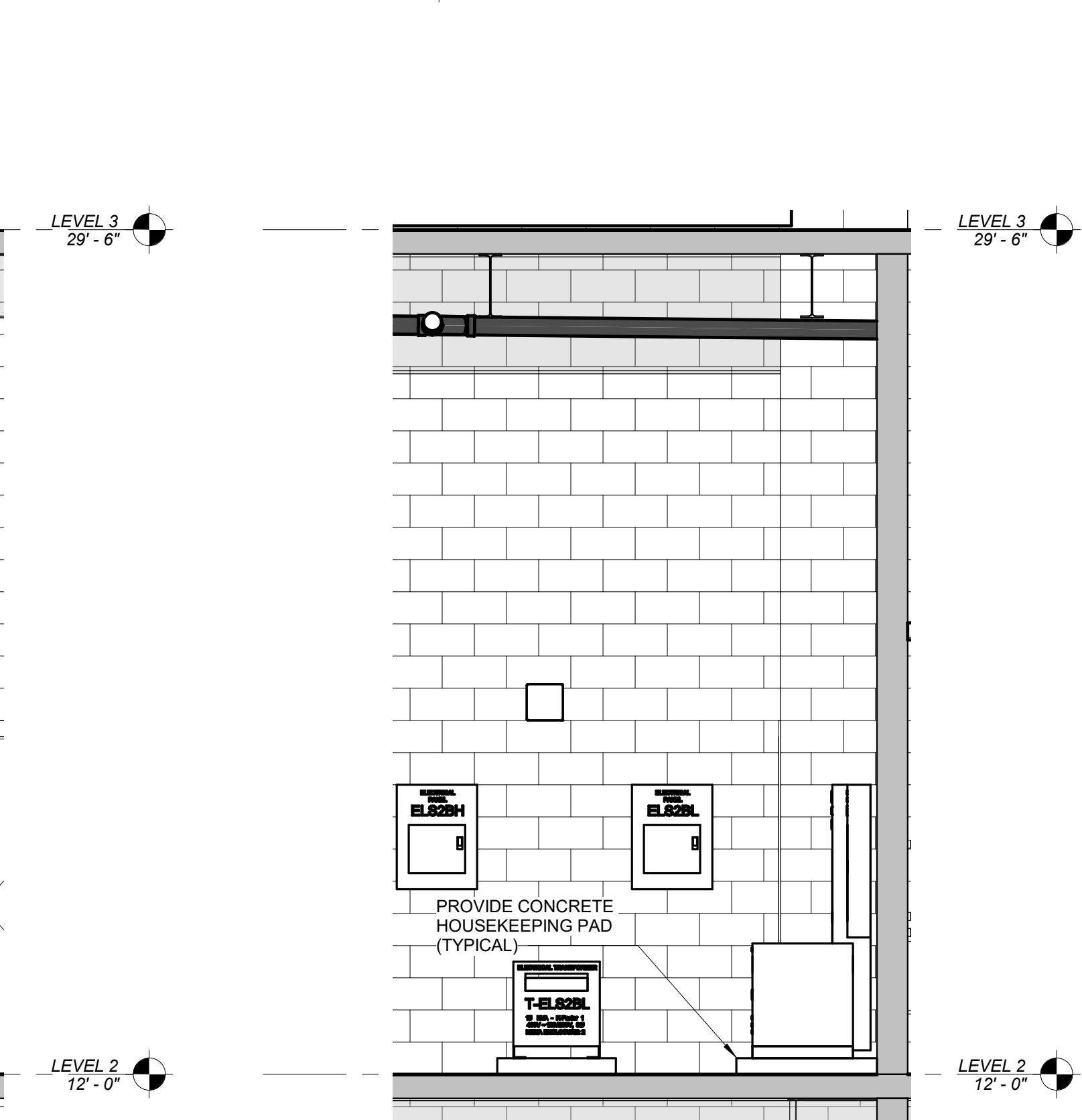
3 SWITCHBOARD MSB2B1 ELEVATION
SCALE: 3/8" = 1'-0"



4 NORTH ELEVATION - MECHANICAL ROOM 210A
SCALE: 3/8" = 1'-0"



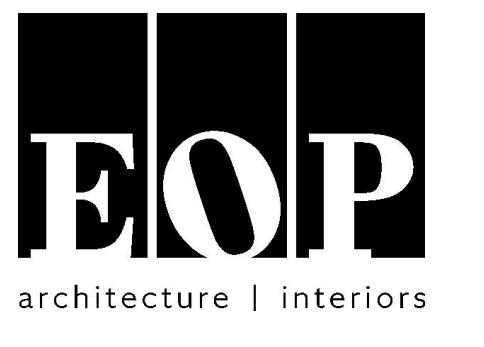
5 SOUTH ELEVATION - MECHANICAL ROOM 210A
SCALE: 3/8" = 1'-0"



6 PARTIAL EAST ELEVATION - MECHANICAL ROOM 210A
SCALE: 3/8" = 1'-0"

10/27/2022 5:22:28 PM

REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
4	10/28/22	ADDENDUM 4

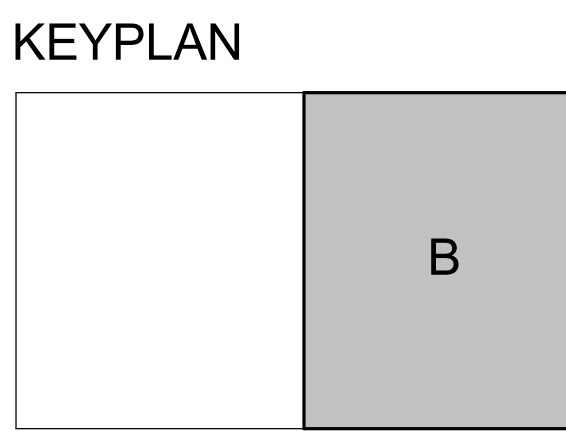


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Lexington, KY 40508



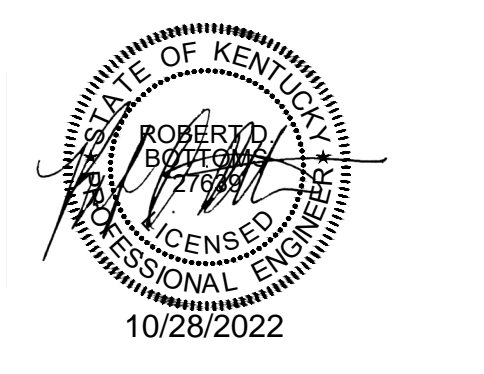
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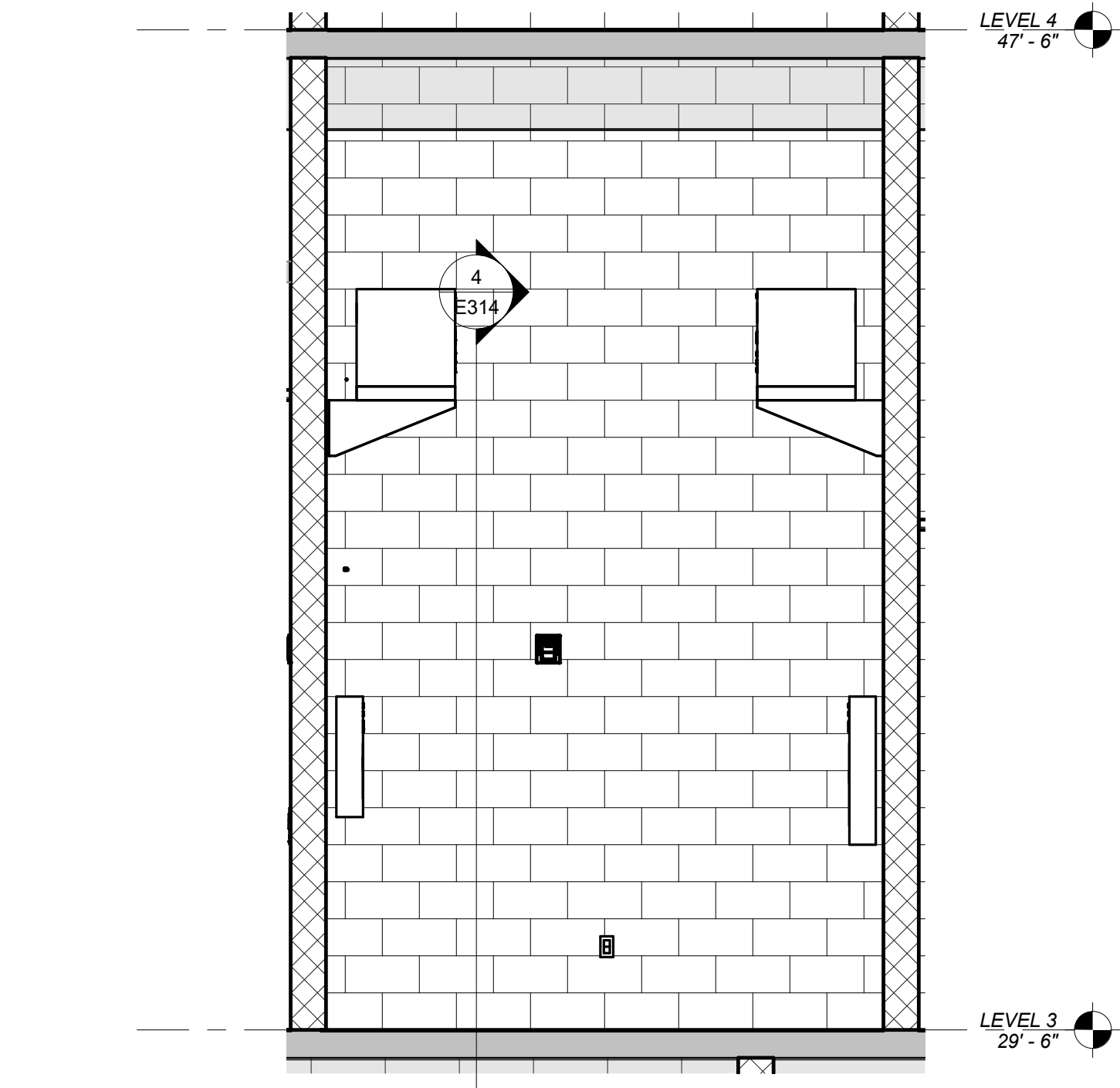
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Job Number 2150
Drawn By JHS
Checked By RDB
Date 09/28/2022

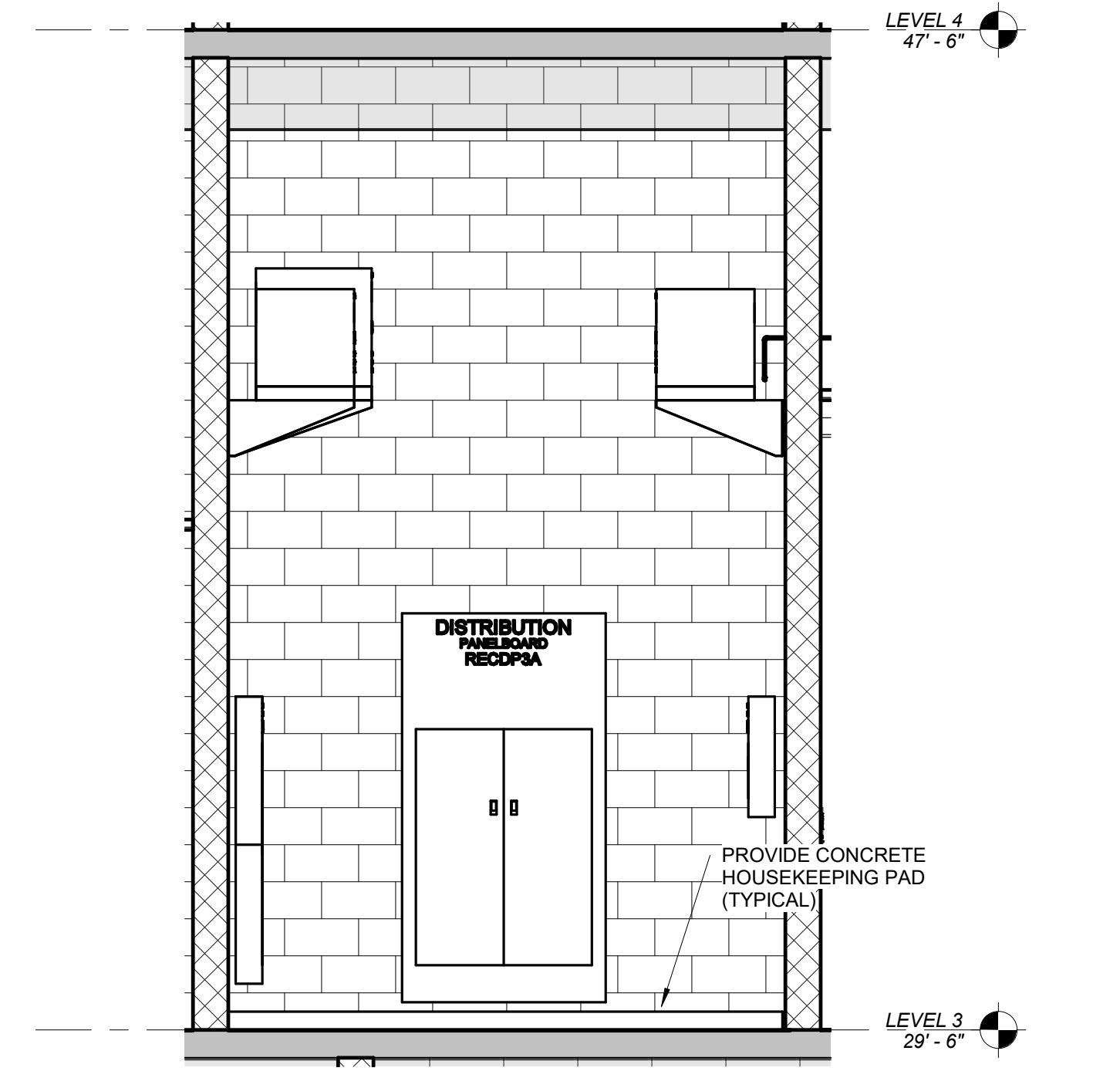
PLAN TRUE



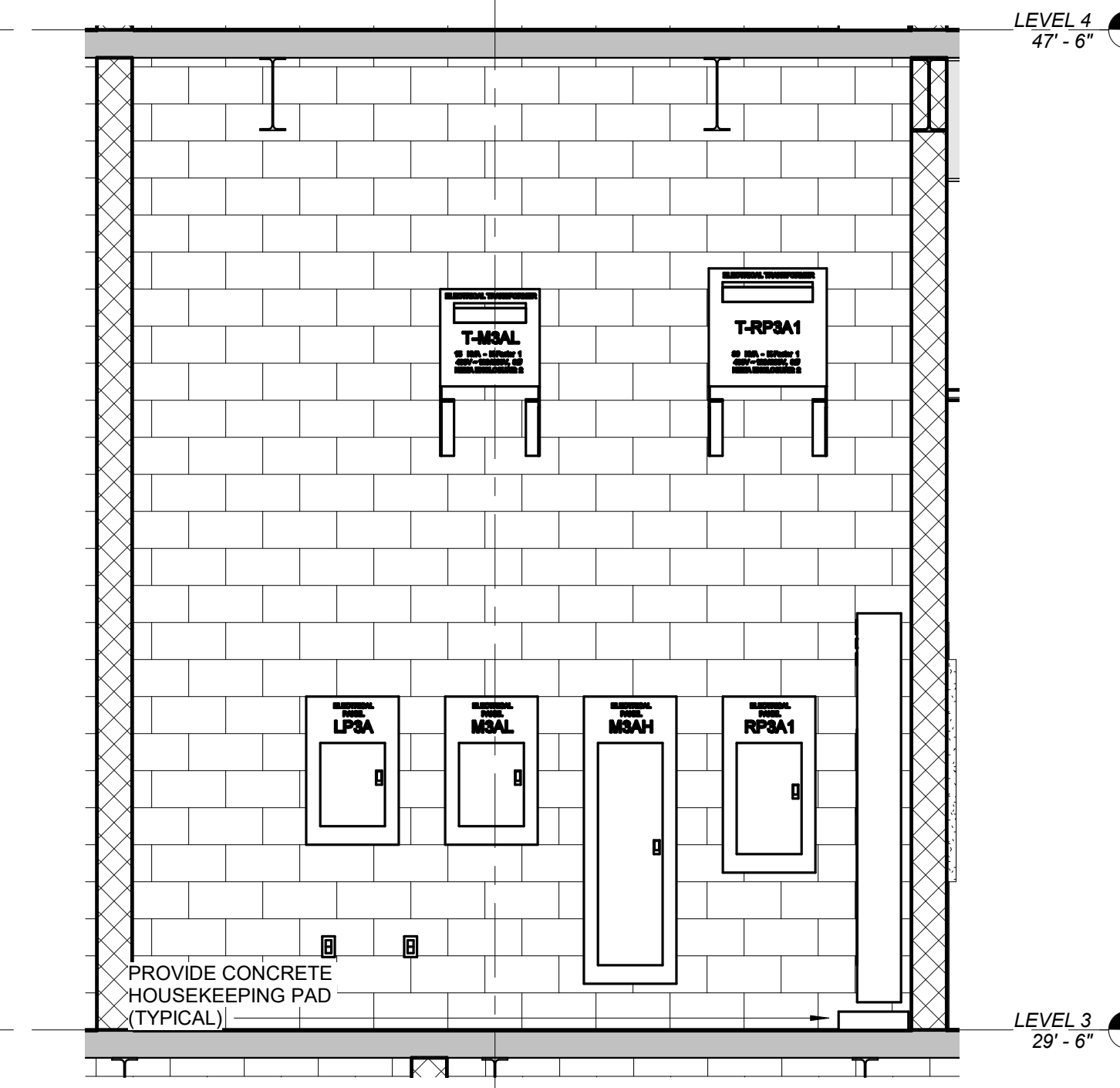
**ENLARGED
ELECTRICAL
PLANS/ELEVATIONS**
ADD #4
10/28/2022
E403ab



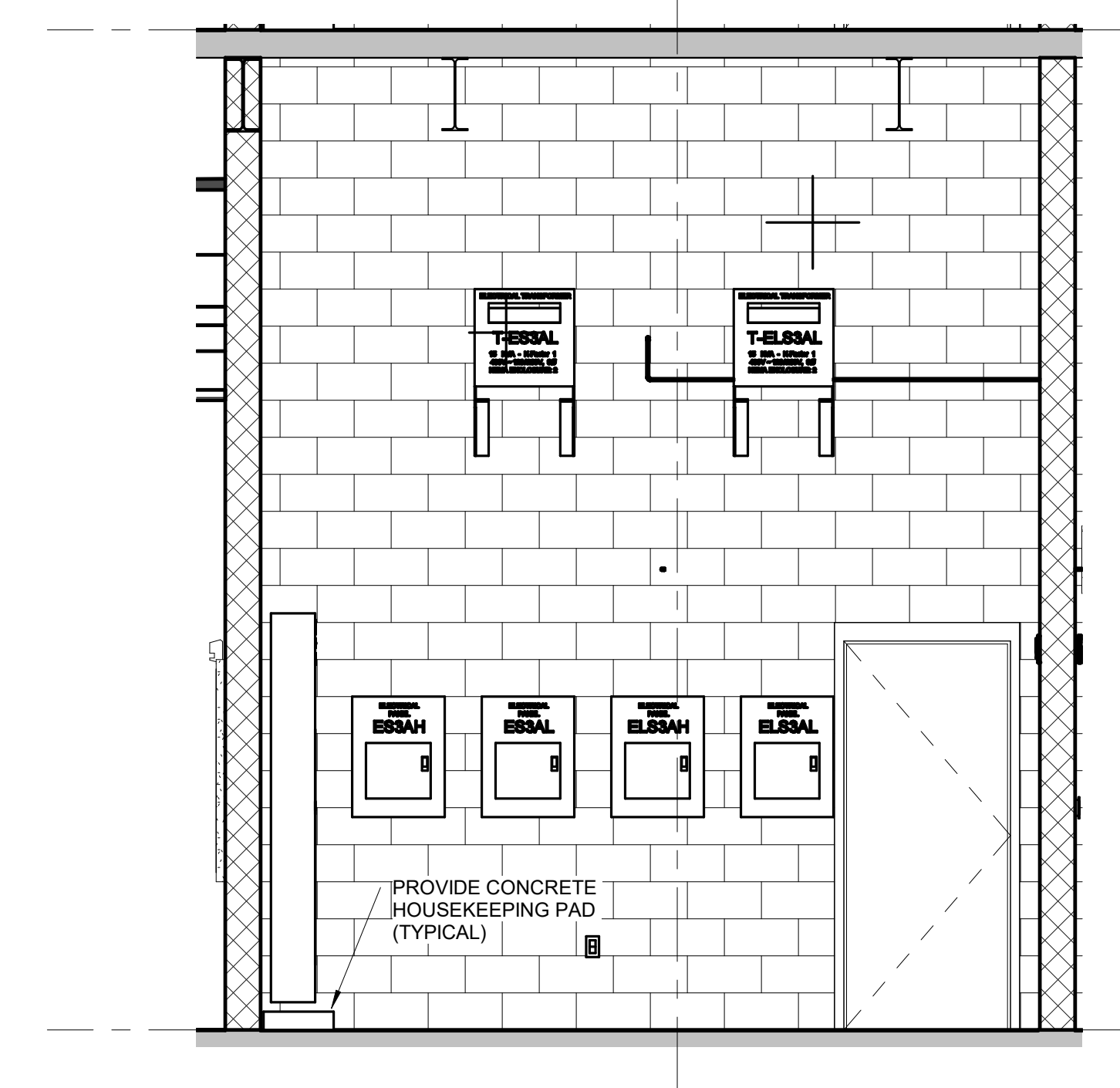
1 NORTH ELEVATION - ELEC. ROOM 320
SCALE: 3/8" = 1'-0"



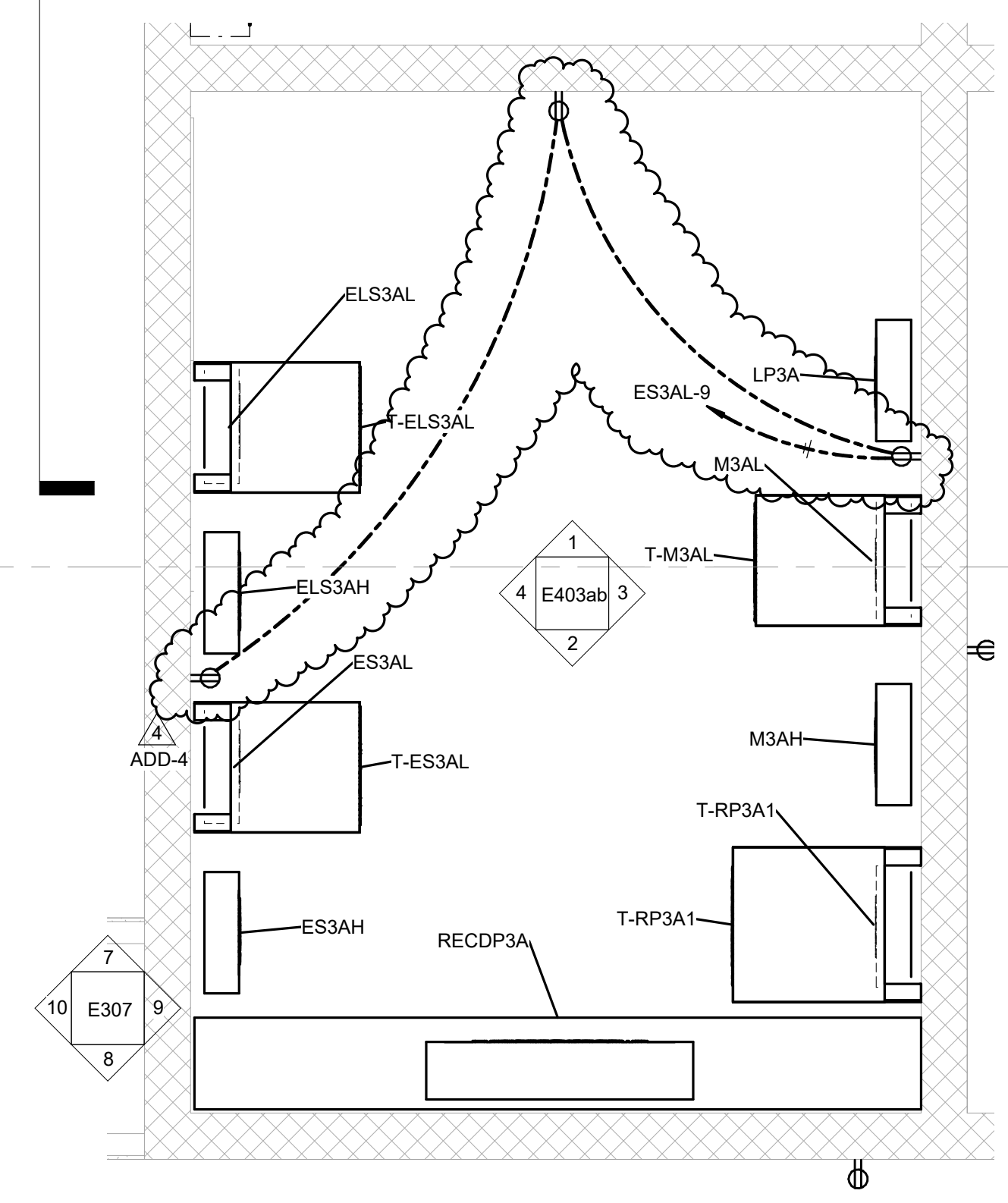
2 SOUTH ELEVATION - ELEC. ROOM 320
SCALE: 3/8" = 1'-0"



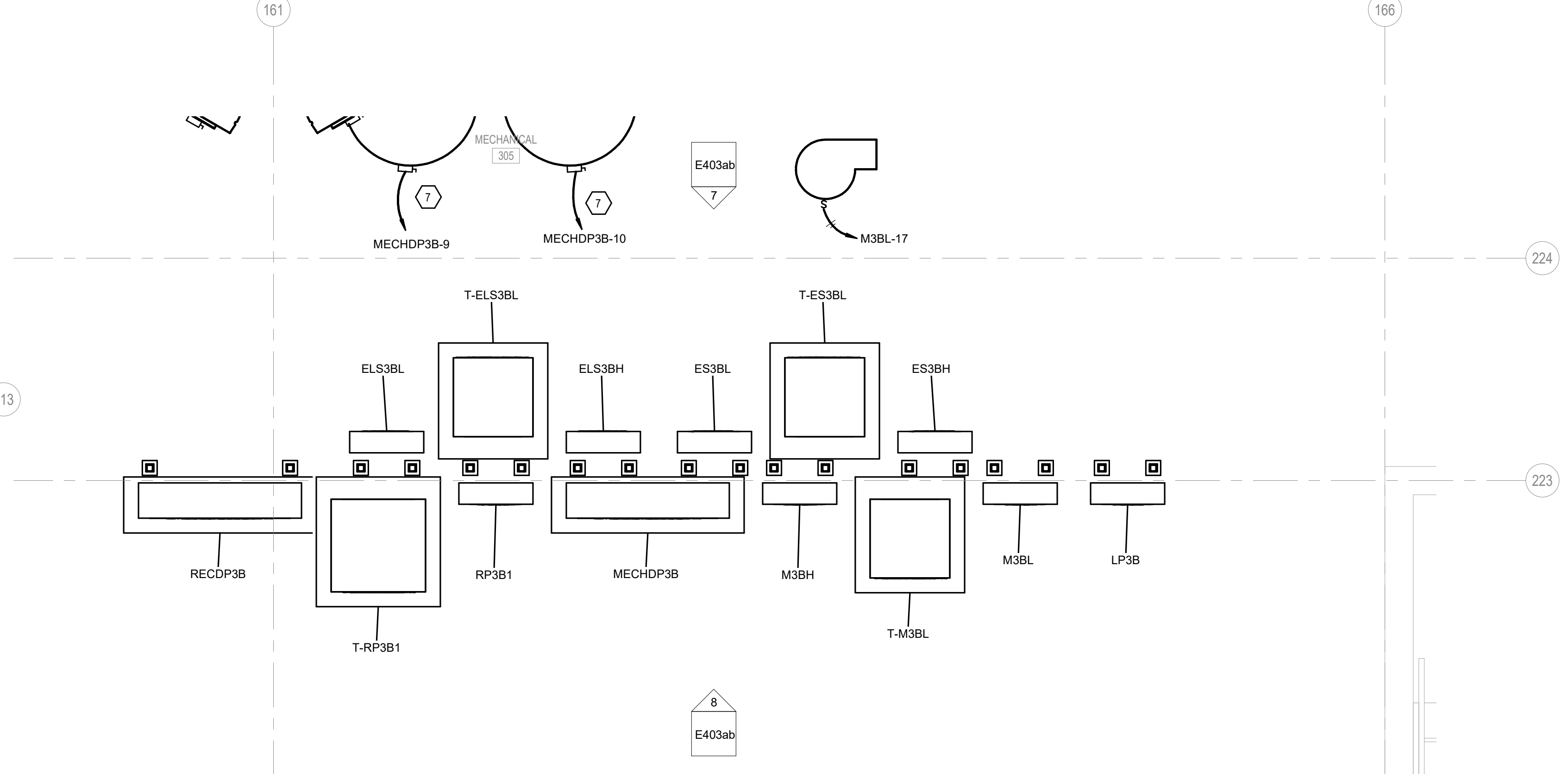
3 EAST ELEVATION - ELEC. ROOM 320
SCALE: 3/8" = 1'-0"



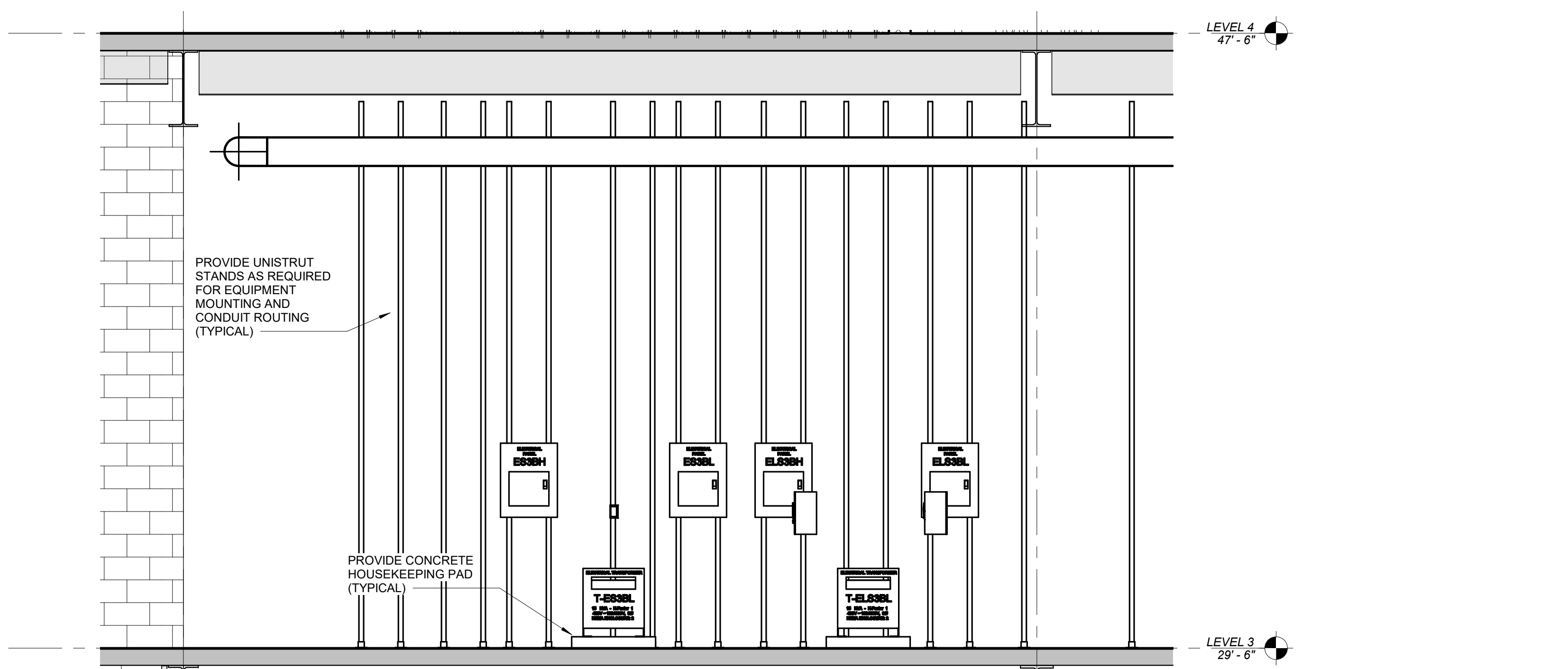
4 WEST ELEVATION - ELEC. ROOM 320
SCALE: 3/8" = 1'-0"



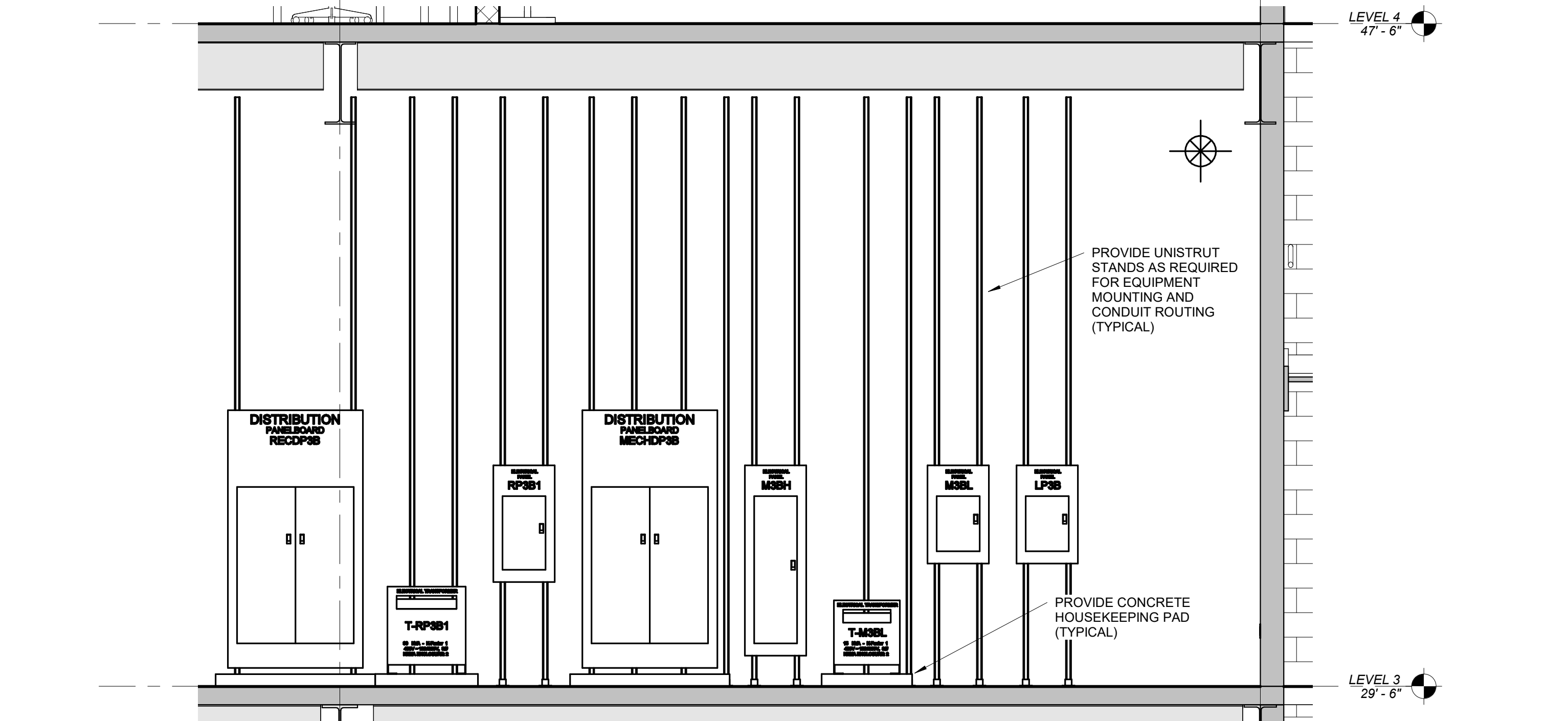
5 ENLARGED ELEC. ROOM 320 - POWER
SCALE: 1/2" = 1'-0"



6 ENLARGED PARTIAL MECHANICAL ROOM 305 - POWER
SCALE: 1/2" = 1'-0"

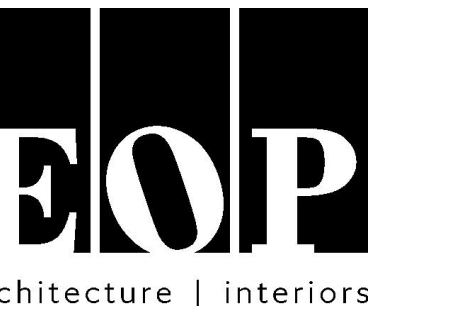


7 CENTER-NORTH SIDE ELEVATION - MECHANICAL ROOM 305
SCALE: 3/8" = 1'-0"



8 CENTER-SOUTH SIDE ELEVATION - MECHANICAL ROOM 305
SCALE: 3/8" = 1'-0"

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/22	ADDENDUM 4



PROJECT TEAM
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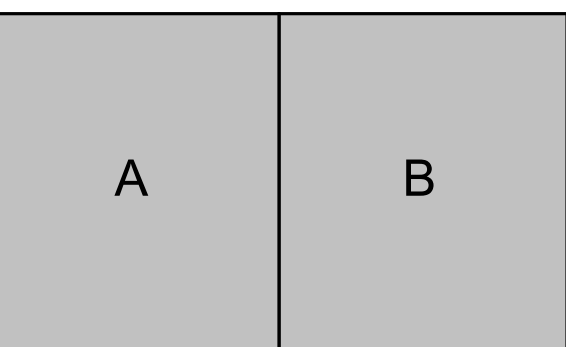
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MEP Engineers
628 Winchester Rd.
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KEYPLAN

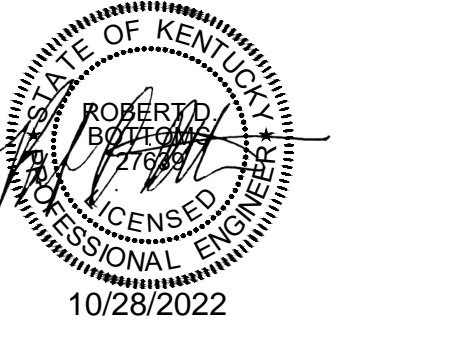


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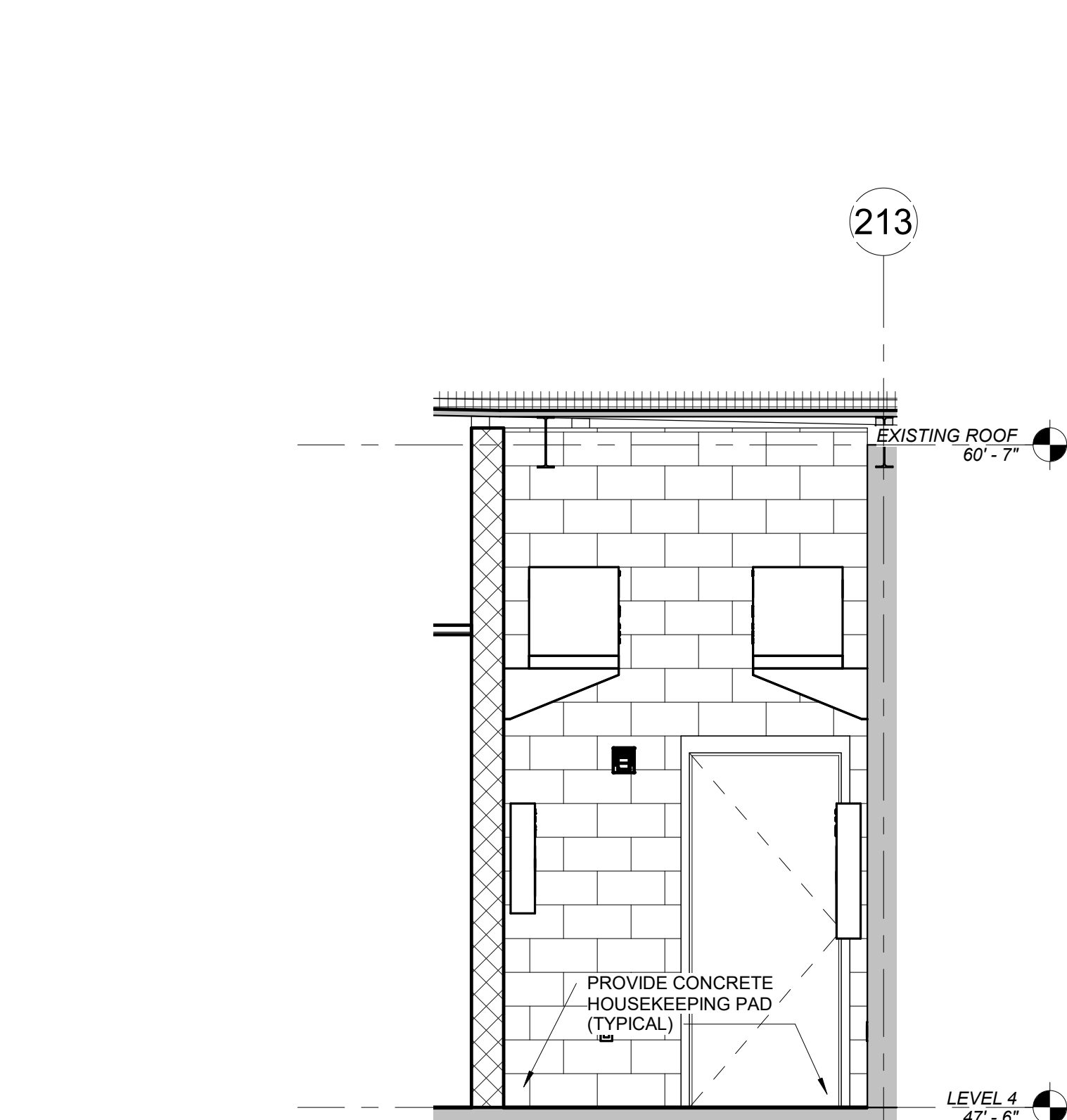
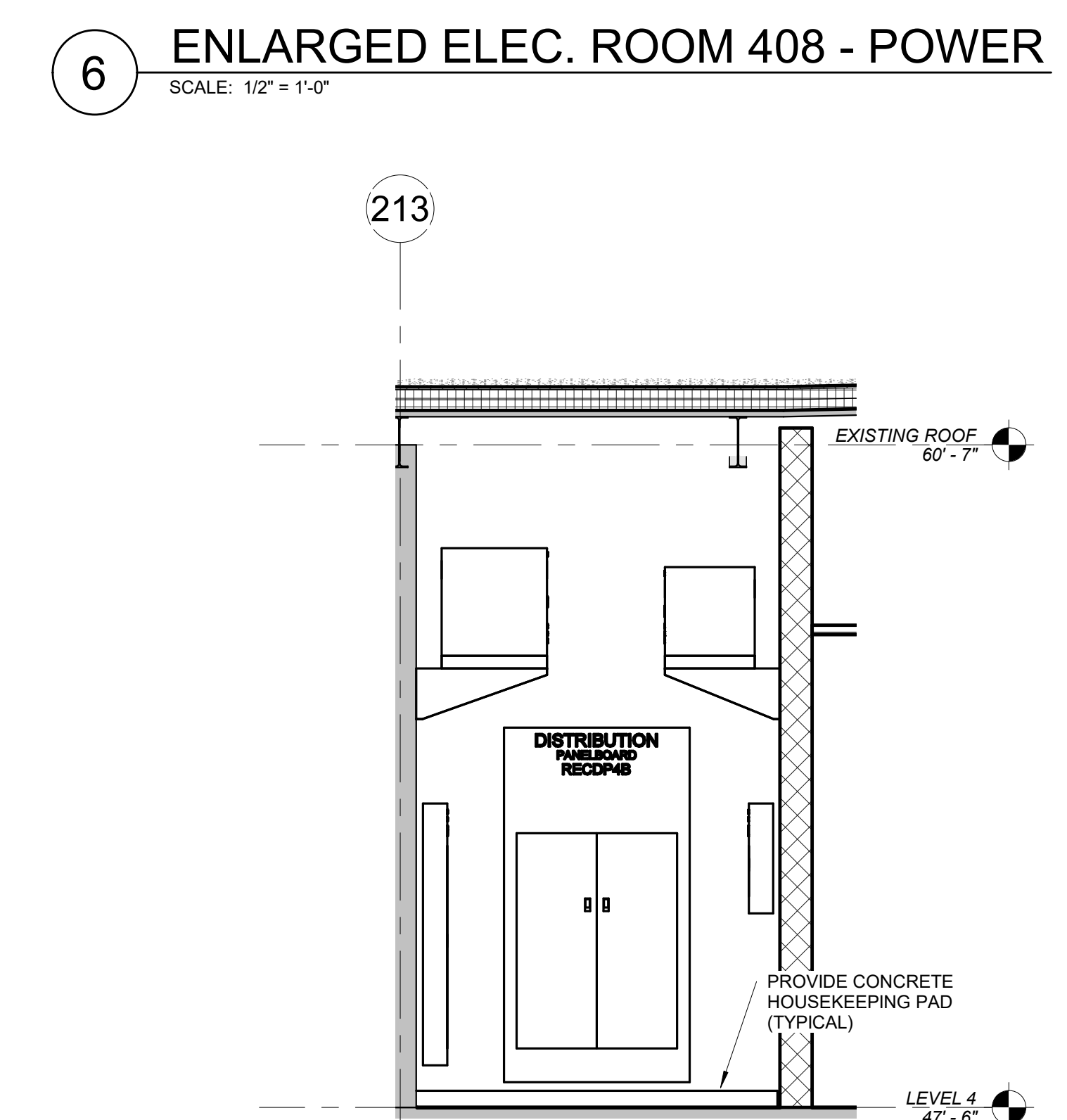
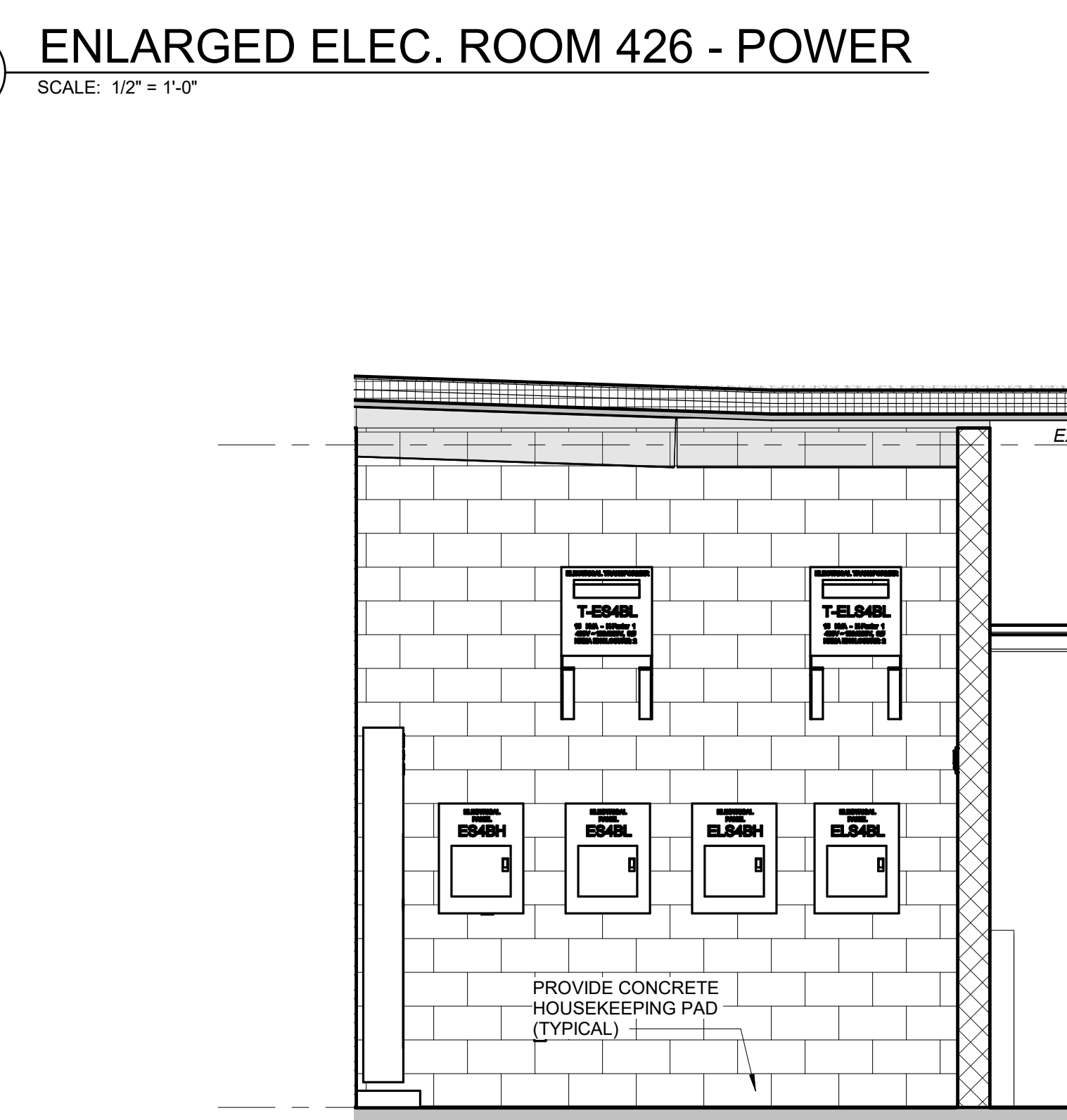
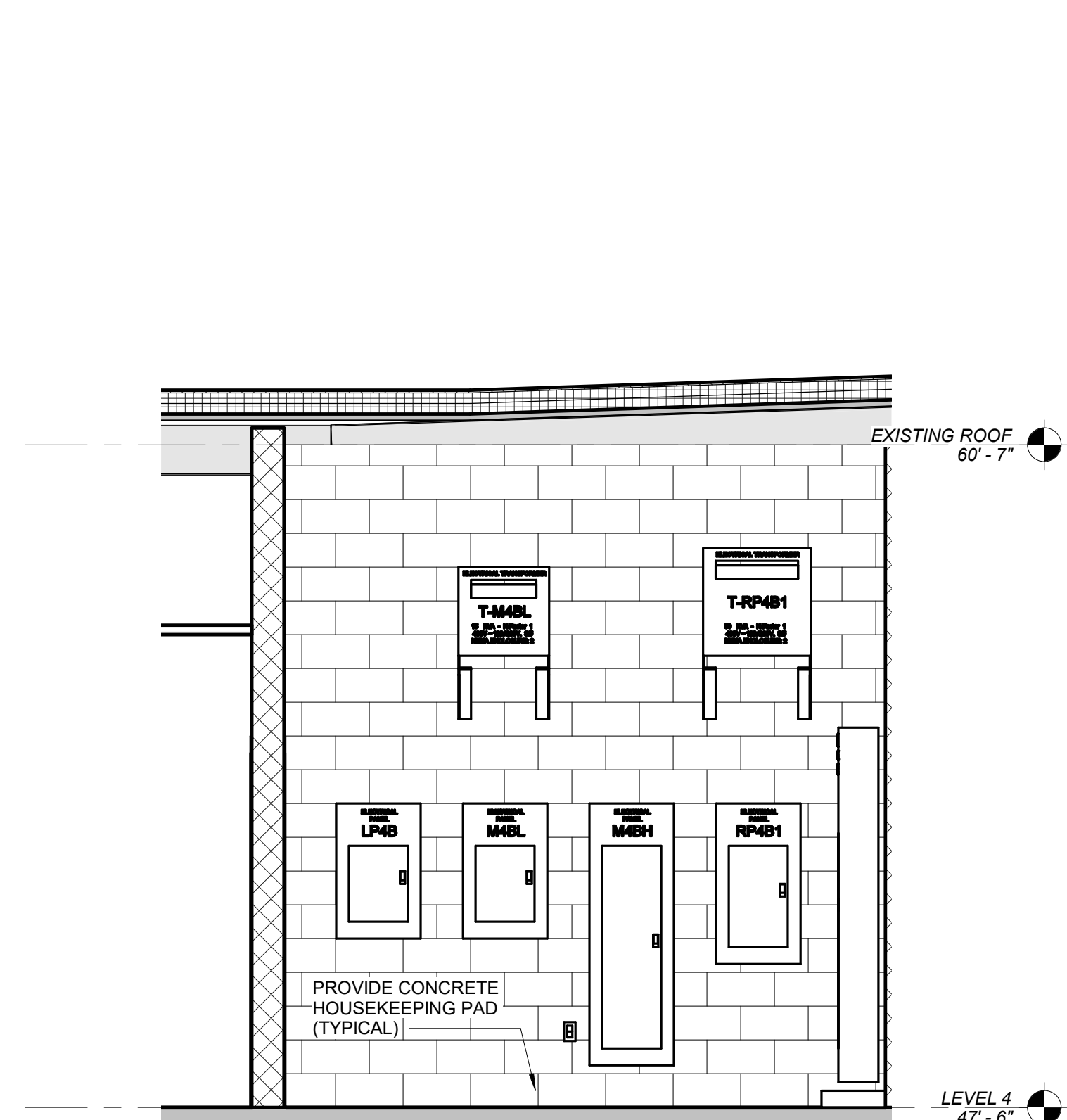
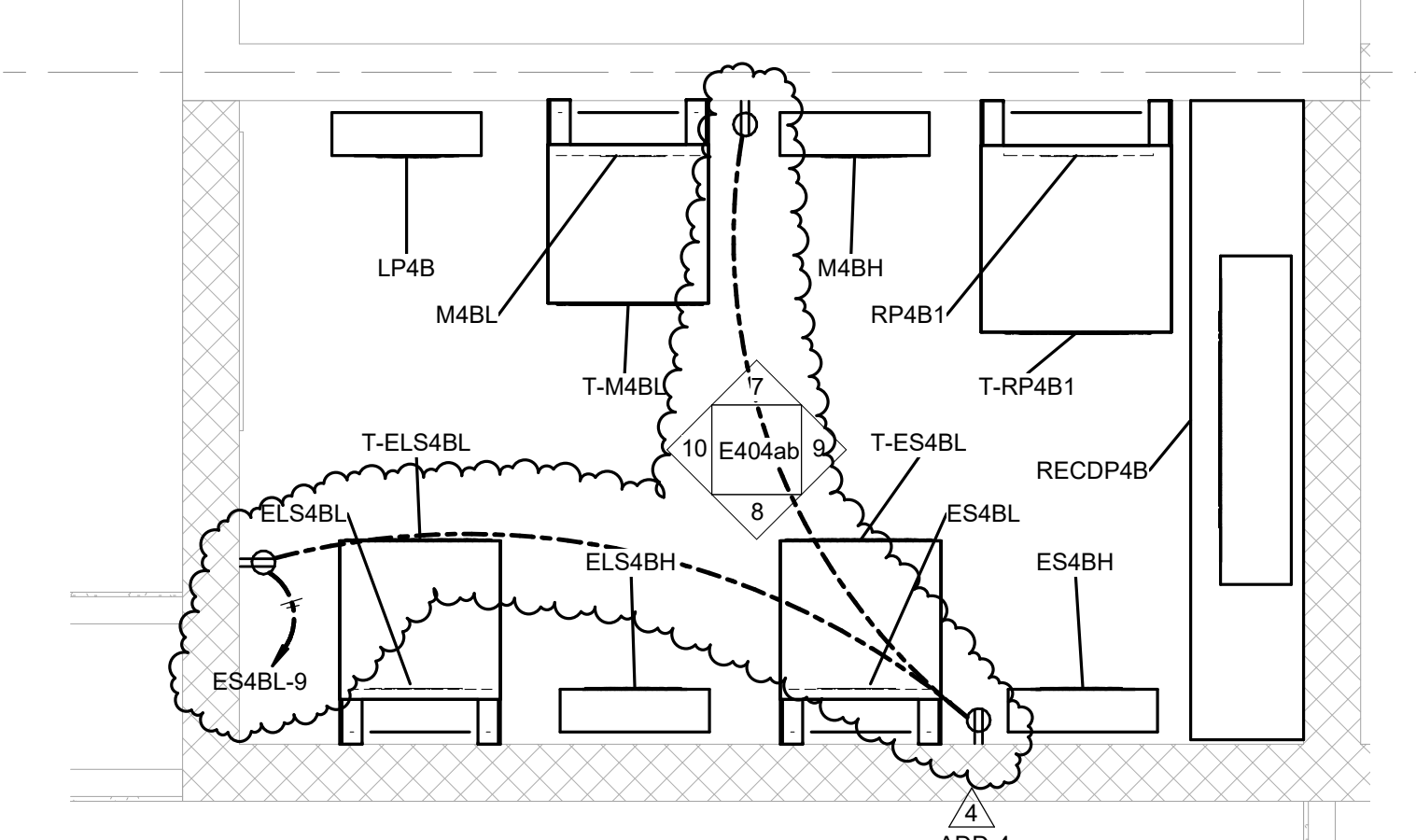
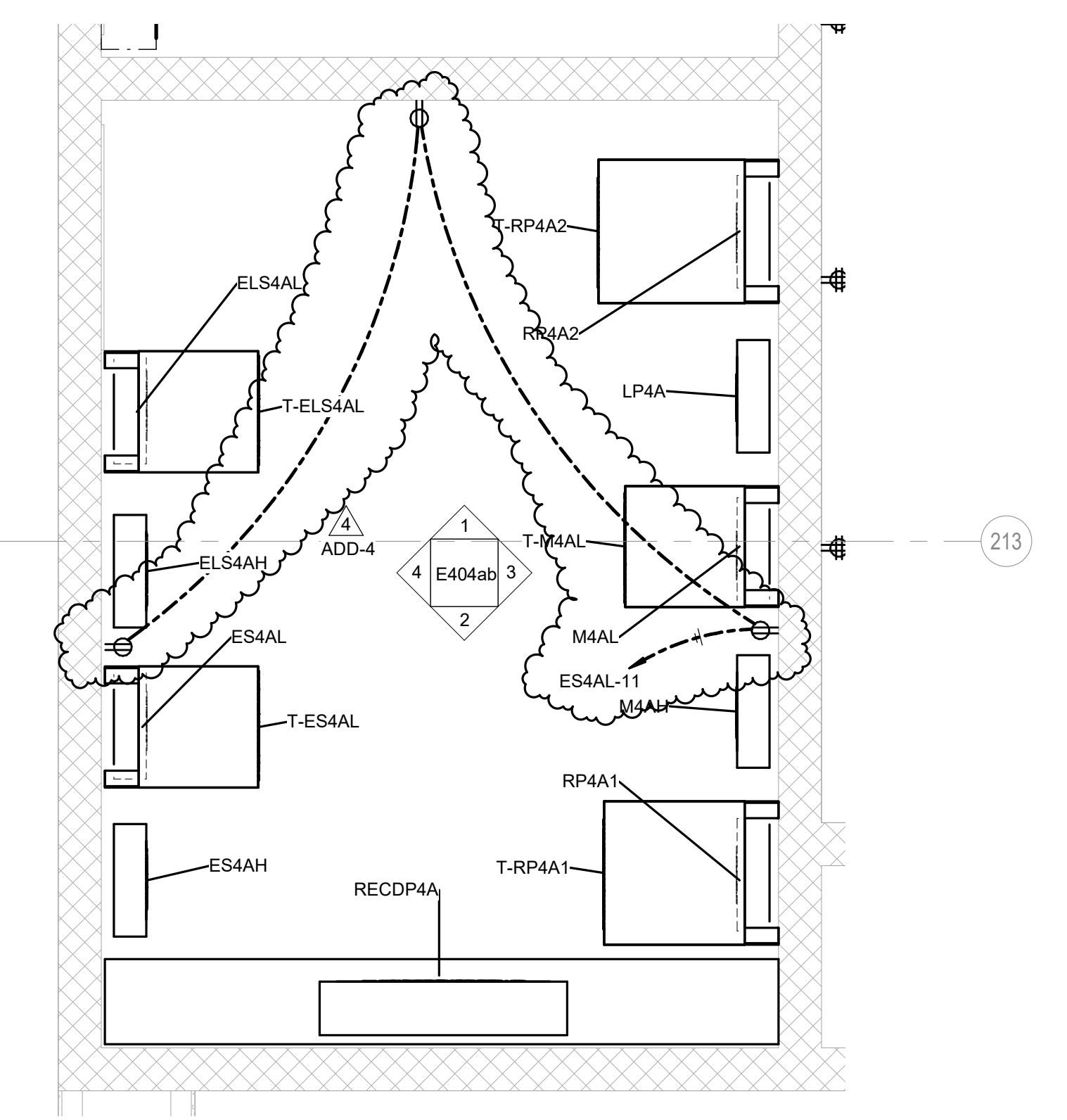
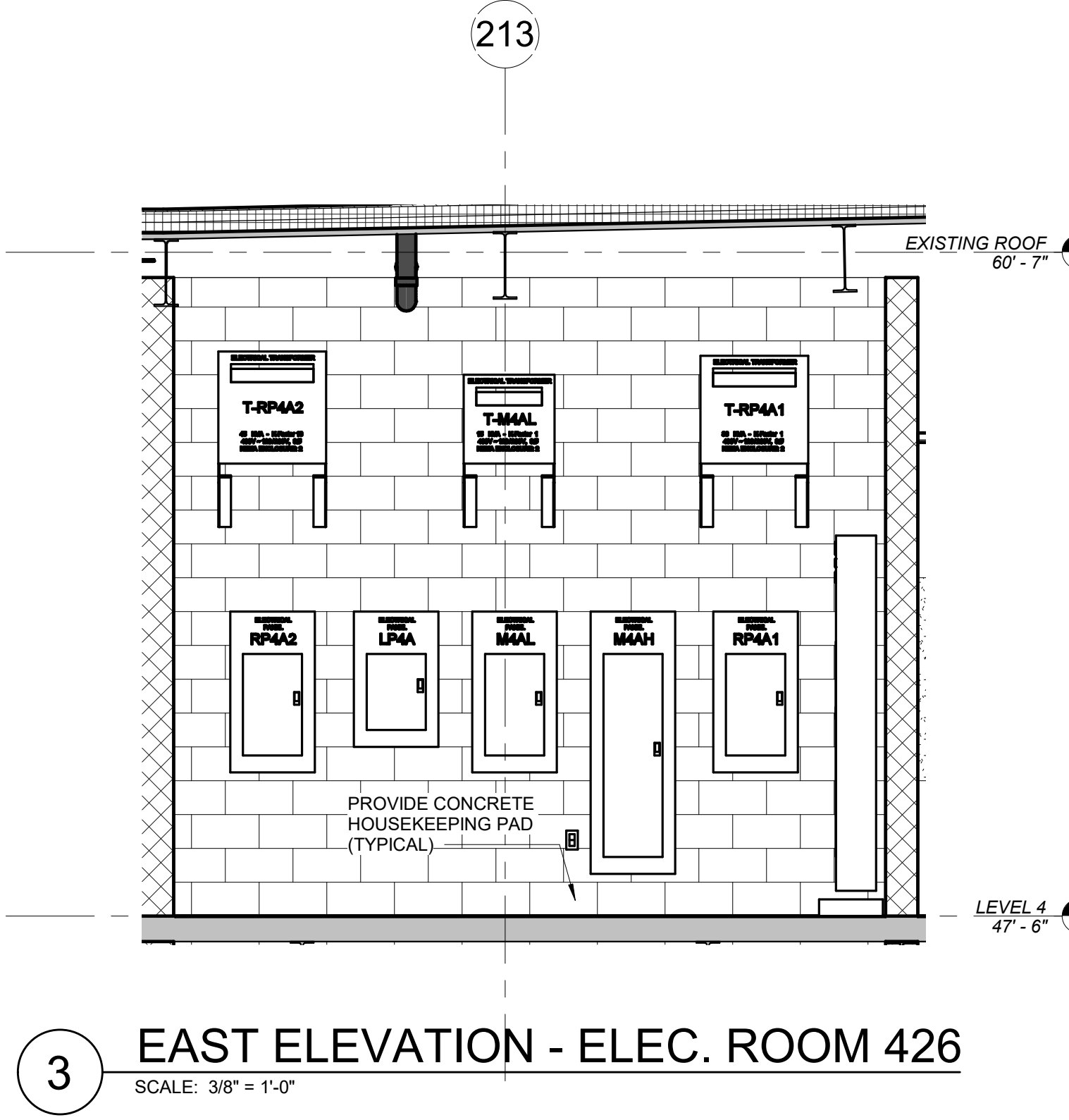
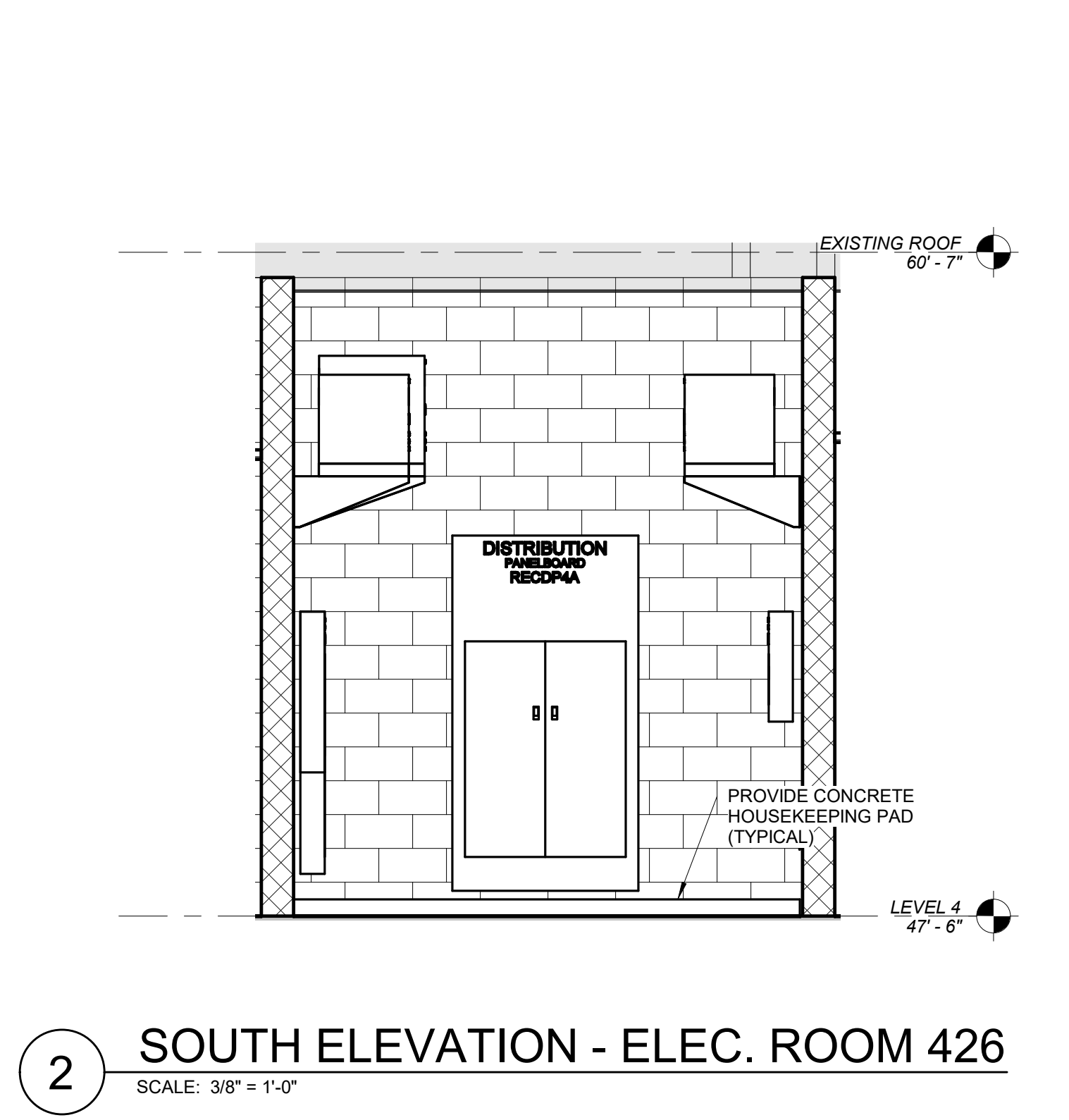
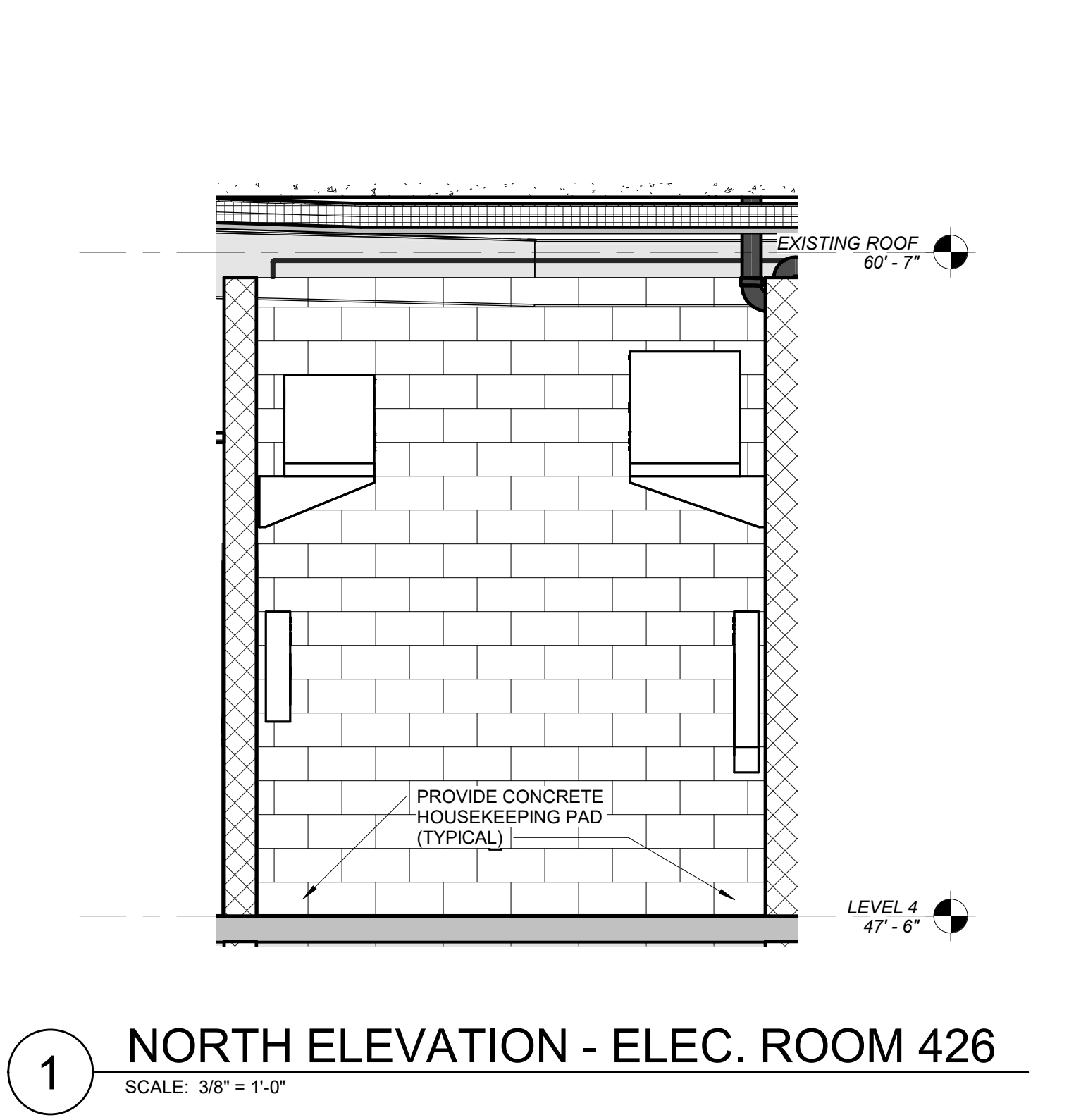
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Job Number: 2150
Drawn By: JHS
Checked By: RDB
Date: 09/28/2022



**ENLARGED
ELECTRICAL
PLANS/ELEVATIONS**

ADD #4
10/28/2022
E404ab

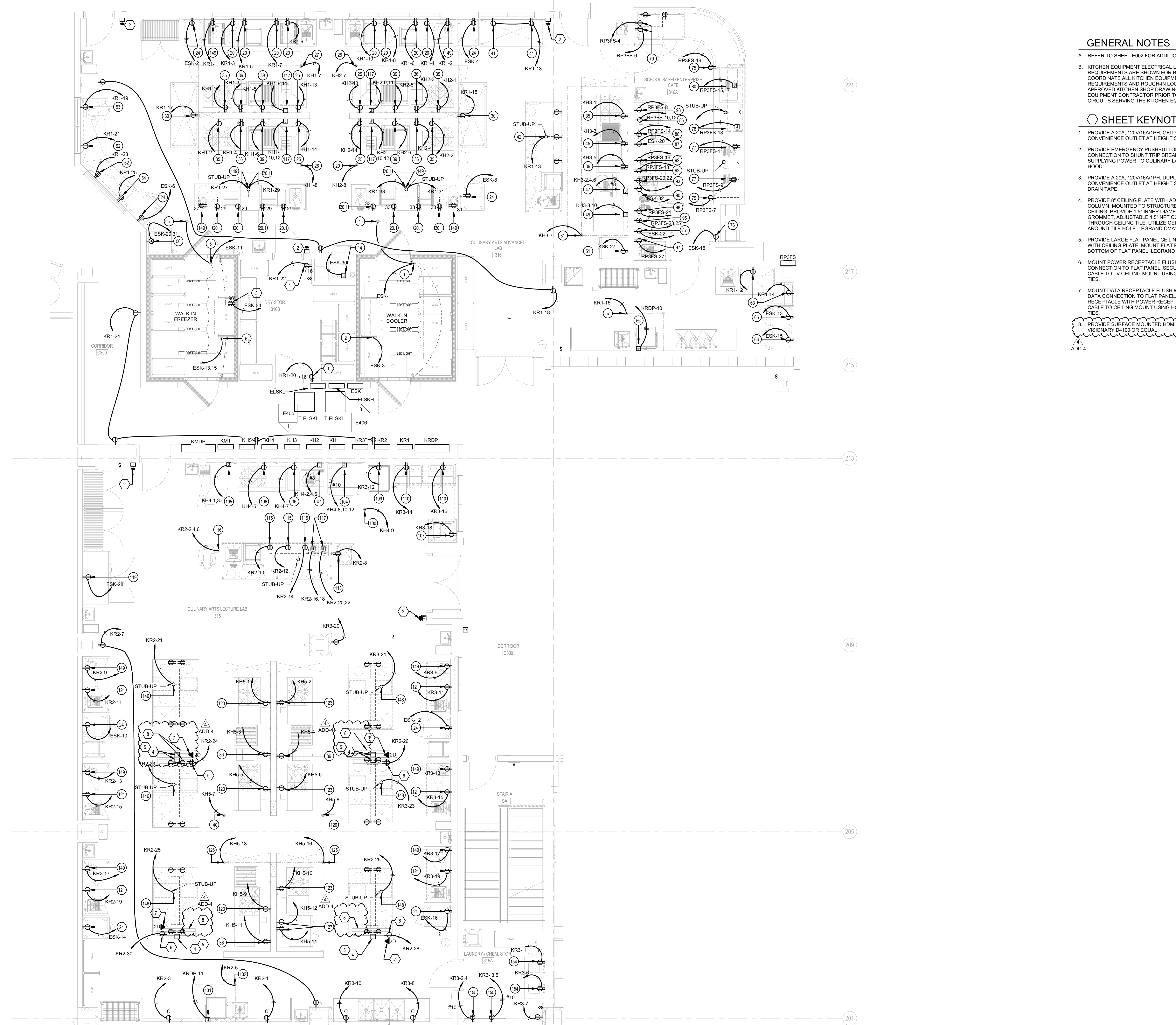


7 NORTH ELEVATION - ELEC. ROOM 408
SCALE: 3/8" = 1'-0"

8 SOUTH ELEVATION - ELEC. ROOM 408
SCALE: 3/8" = 1'-0"

9 EAST ELEVATION - ELEC. ROOM 408
SCALE: 3/8" = 1'-0"

10 WEST ELEVATION - ELEC. ROOM 408
SCALE: 3/8" = 1'-0"



GENERAL NOTES

- A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.
- B. KITCHEN EQUIPMENT ELECTRICAL LAYOUT AND POWER REQUIREMENTS ARE SHOWN FOR BID PURPOSES ONLY. COORDINATE ALL KITCHEN EQUIPMENT ELECTRICAL REQUIREMENTS AND ROUGH-IN LOCATIONS WITH THE APPROVED KITCHEN SHOP DRAWINGS AND THE KITCHEN EQUIPMENT CONTRACTOR PRIOR TO INSTALLATION OF ANY CIRCUITS SERVING THE KITCHEN EQUIPMENT.

SHEET KEYNOTES

- 1. PROVIDE A 20A, 120V/16A/1PH, GFI DUPLEX RECEPTACLE CONVENIENCE OUTLET AT HEIGHT SHOWN.
- 2. PROVIDE EMERGENCY PUSHBUTTON WITH GUARD AND CONNECTION TO SHUNT TRIP BREAKERS FEEDING PANELS SUPPLYING POWER TO CULINARY LAB EQUIPMENT UNDER HOOD.
- 3. PROVIDE A 20A, 120V/16A/1PH, DUPLEX RECEPTACLE CONVENIENCE OUTLET AT HEIGHT SHOWN FOR HEATED DRAIN TAPE.
- 4. PROVIDE 8" CEILING PLATE WITH ADJUSTABLE 1.5" NPT COLUMN MOUNTED TO STRUCTURE ABOVE ACCESSIBLE CEILING. PROVIDE 1.5" INNER DIAMETER WHITE CEILING TILE GROMMET, ADJUSTABLE 1.5" NPT COLUMN TO POKE THROUGH CEILING TILE. UTILIZE CEILING TILE GROMMET AROUND TILE HOLE. LEGRAND CMA100 OR EQUAL.
- 5. PROVIDE LARGE FLAT PANEL CEILING MOUNT COMPATIBLE WITH CEILING PLATE. MOUNT FLAT PANEL 6" AFF TO BOTTOM OF FLAT PANEL. LEGRAND FUSION OR EQUAL.
- 6. MOUNT POWER RECEPTACLE FLUSH WITH CEILING TILE FOR CONNECTION TO FLAT PANEL. SECURE FLAT PANEL POWER CABLE TO CEILING MOUNT USING HOOK AND LOOP CABLE TIES.
- 7. MOUNT DATA RECEPTACLE FLUSH WITH CEILING TILE FOR DATA CONNECTION TO FLAT PANEL. GROUP DATA RECEPTACLE WITH POWER RECEPTACLE. SECURE DATA CABLE TO CEILING MOUNT USING HOOK AND LOOP CABLE TIES.
- 8. PROVIDE SURFACE MOUNTED HDMI OVER IP DECODER VISIONARY D4100 OR EQUAL.

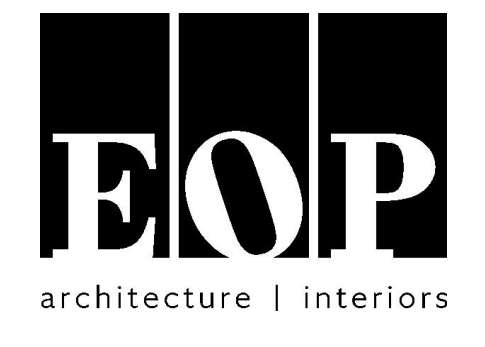
ADD-4

NEW COMBINED CTE SCHOOL
BG# 22-167

100 Midland Ave,
Lexington, KY 40508

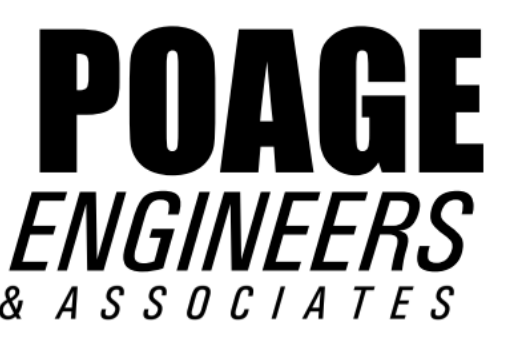
BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/22	ADDENDUM 4

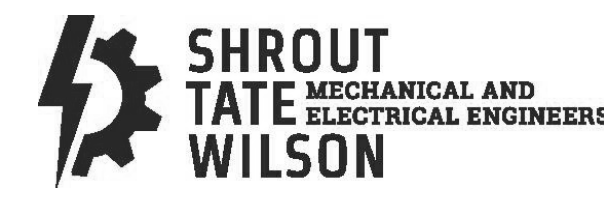


PROJECT TEAM

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Job Number	2150	PLAN
Drawn By	CMB	TRUE
Checked By	RDB	
Date	09/28/2022	



ENLARGED CULINARY PLAN - POWER

ADD #4
10/28/2022

E407

1 ENLARGED THIRD FLOOR CULINARY PLAN - POWER
SCALE: 1/4" = 1'-0"



REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
4	10/28/22 ADDENDUM 4



PROJECT TEAM

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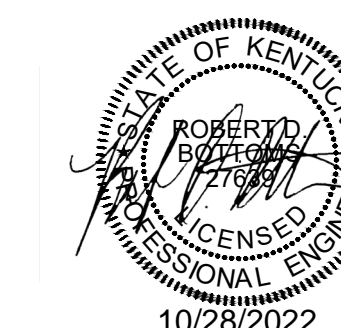
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Job Number 2150
Drawn By Author
Checked By Checker
Date 09/26/2022



**ENLARGED
MECHANICAL ROOMS**

ADD #4
10/28/2022

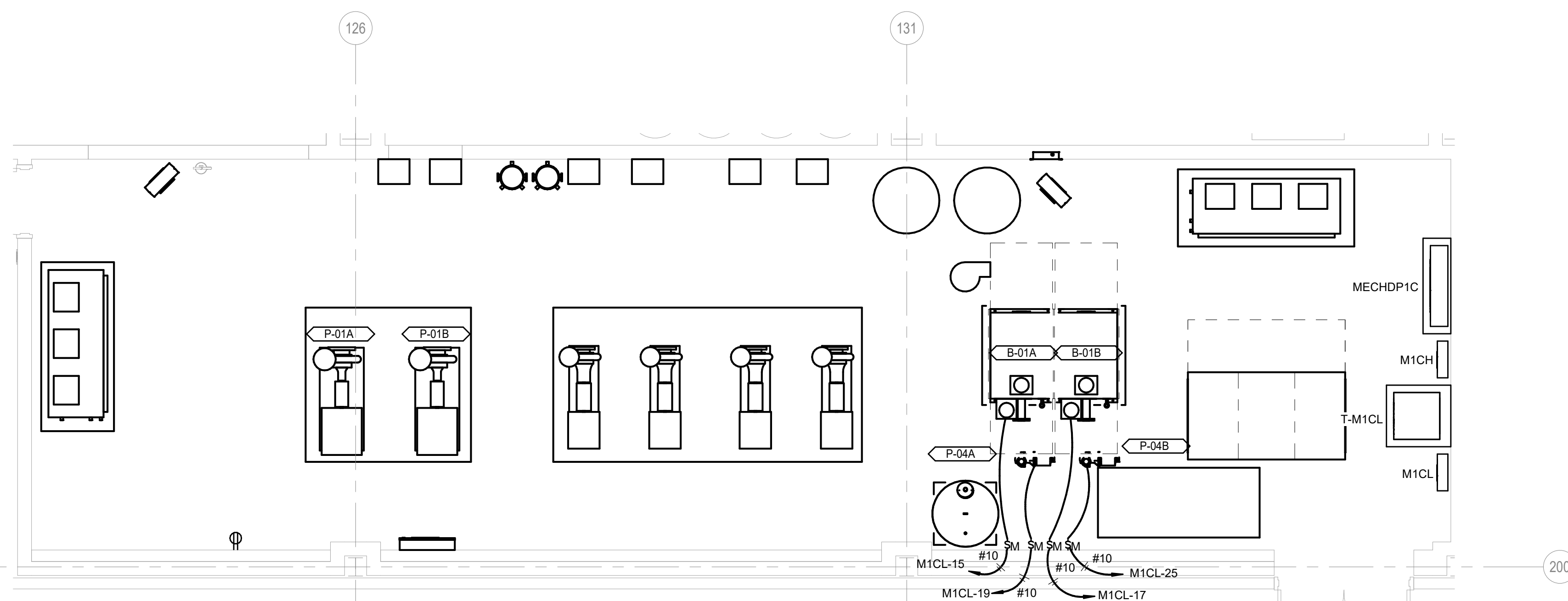
E409

GENERAL NOTES

A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.

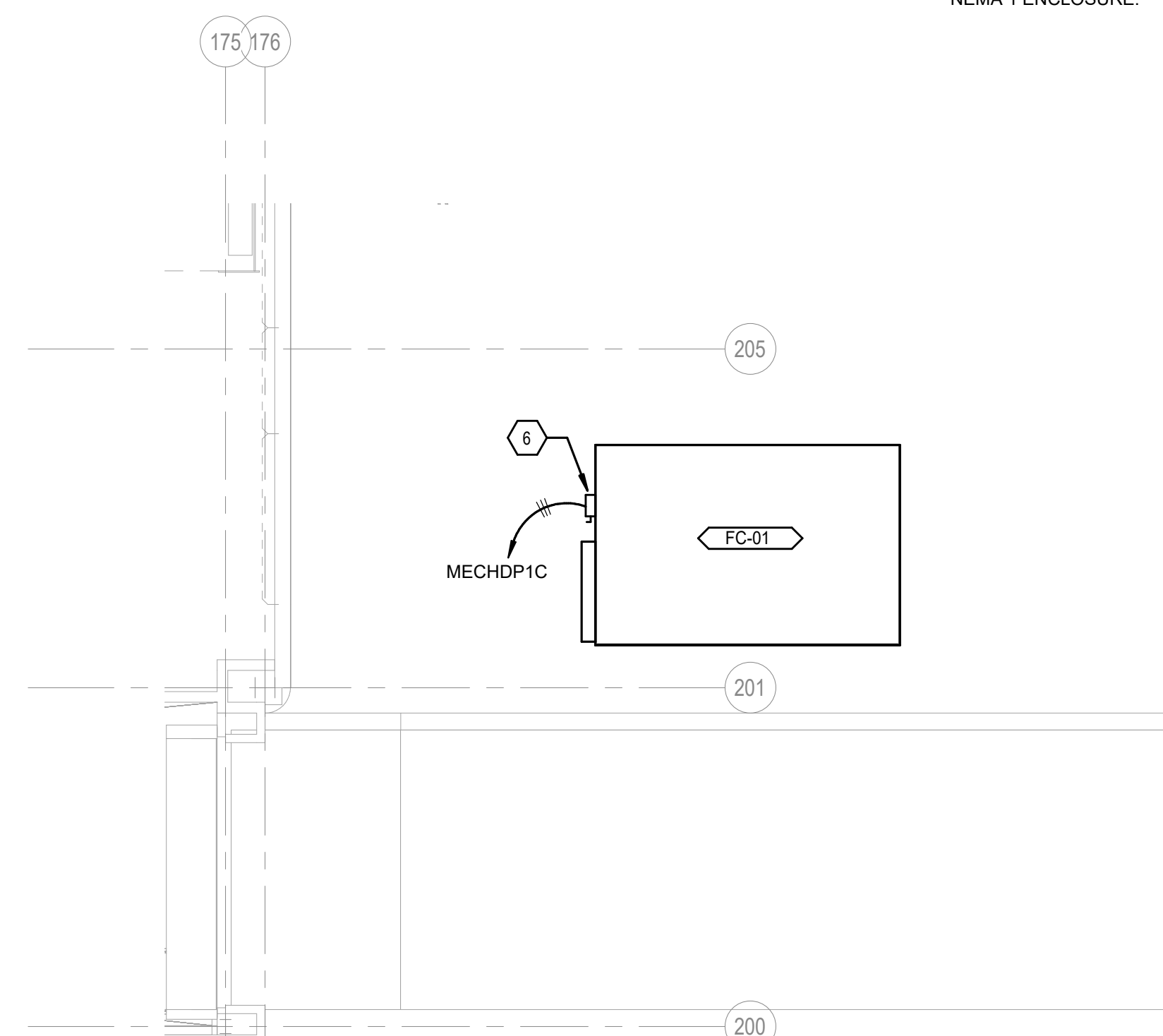
SHEET KEYNOTES

1. PROVIDE 120V, 15A, 1P MOTOR RATED TOGGLE SAFETY SWITCH IN NEMA 1 ENCLOSURE.
2. PROVIDE POWER CONNECTION TO FACTORY PROVIDED, UNIT MOUNTED SAFETY SWITCH.
3. REFER TO ELECTRICAL ONE-LINE DIAGRAM FOR FEEDER SIZE.
4. PROVIDE 480V, 30A, 3P, NON-FUSED SAFETY SWITCH IN A NEMA 1 ENCLOSURE.
5. PROVIDE FINAL POWER CONNECTION BETWEEN PUMP AND VFD WITH SAME SIZE CONDUCTORS AND CONDUIT AS HOMERUN FROM VFD TO PANELBOARD.
6. PROVIDE 480V, 200A, 3P, FUSIBLE SAFETY SWITCH IN A NEMA 3R ENCLOSURE, FUSED AT 150A.
7. PROVIDE 480V, 100A, 3P, NON-FUSIBLE SAFETY SWITCH IN A NEMA 1 ENCLOSURE.



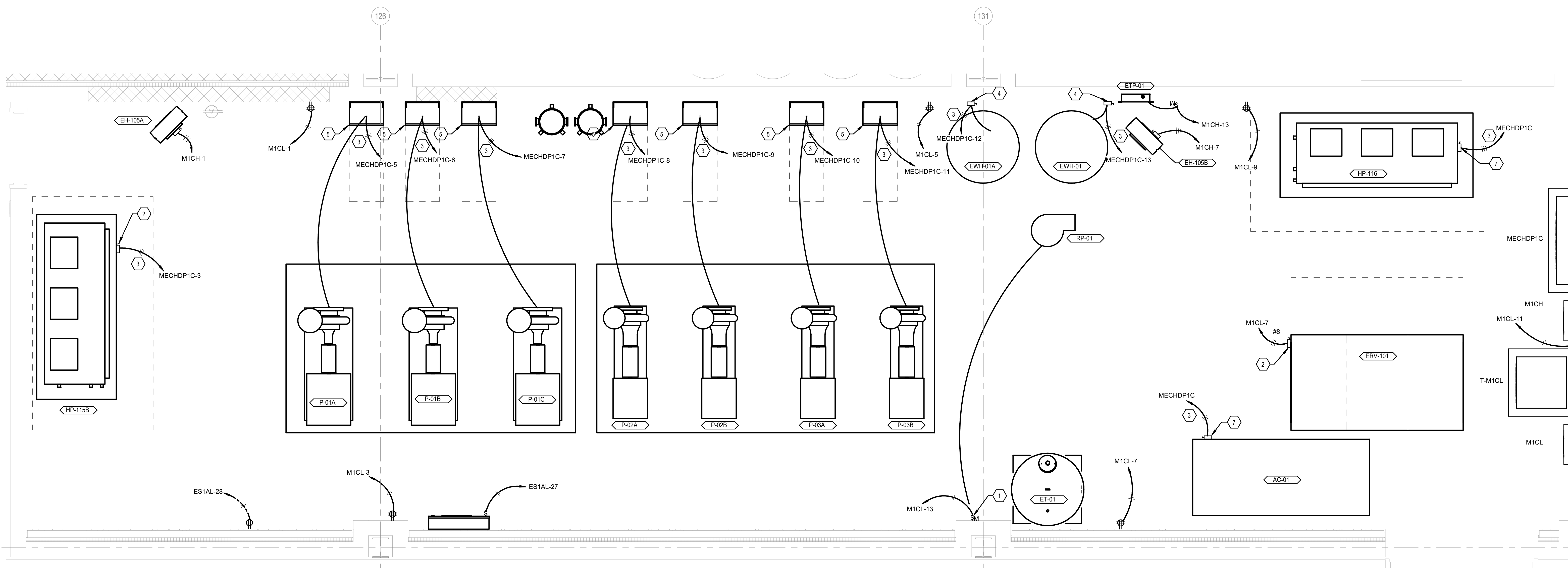
2 ENLARGED MECHANICAL ROOM 123 - POWER ALT#1

SCALE: 1/4" = 1'-0"



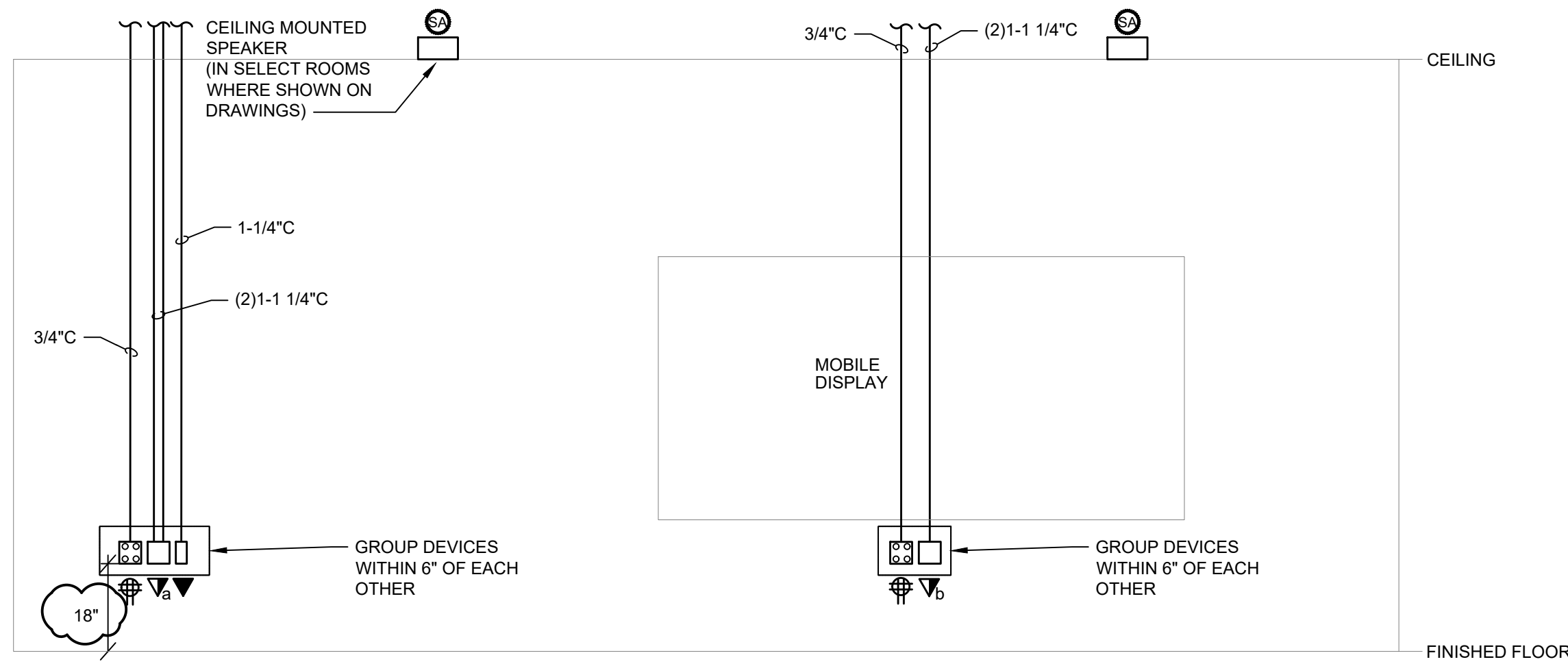
3 ENLARGED COOLING TOWER AREA B - MECHANICAL PIPING - ALTERNATE #1

SCALE: 1/8" = 1'-0"

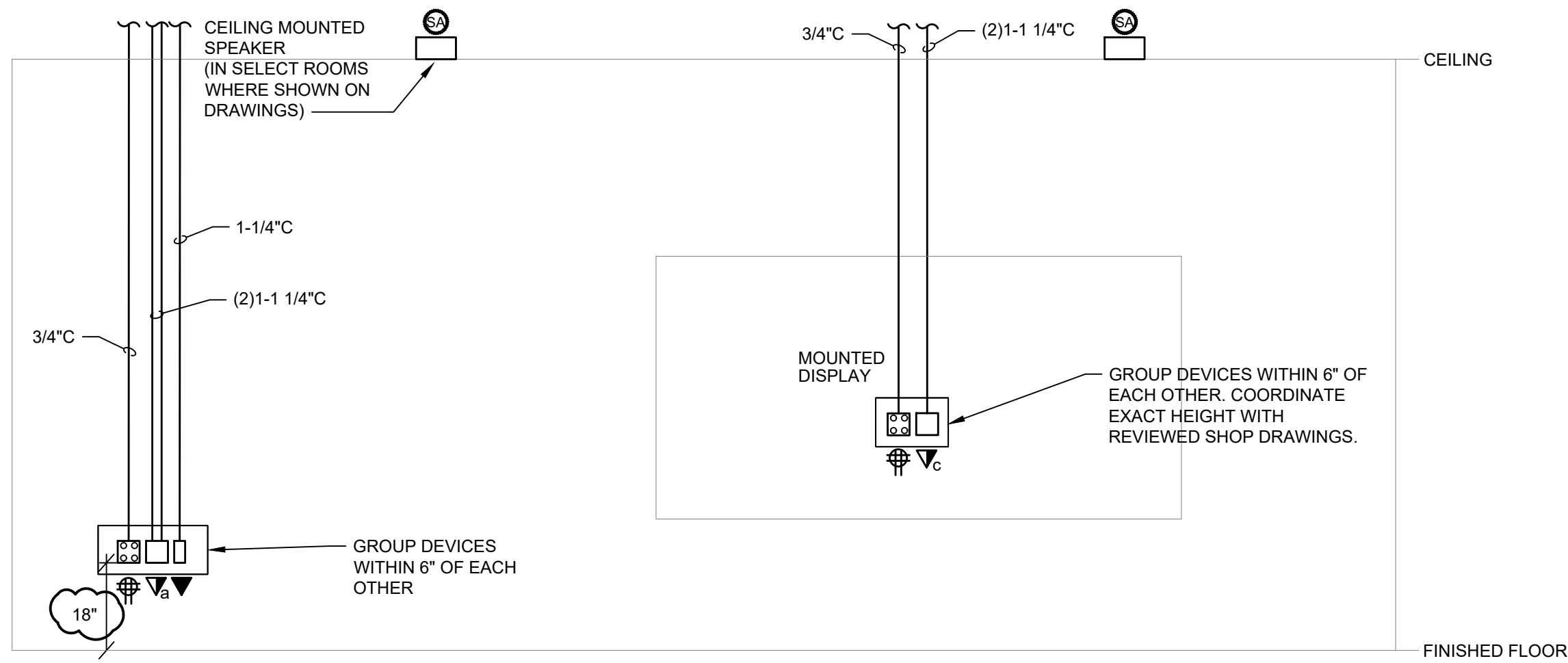


1 ENLARGED MECHANICAL ROOM 123 - POWER

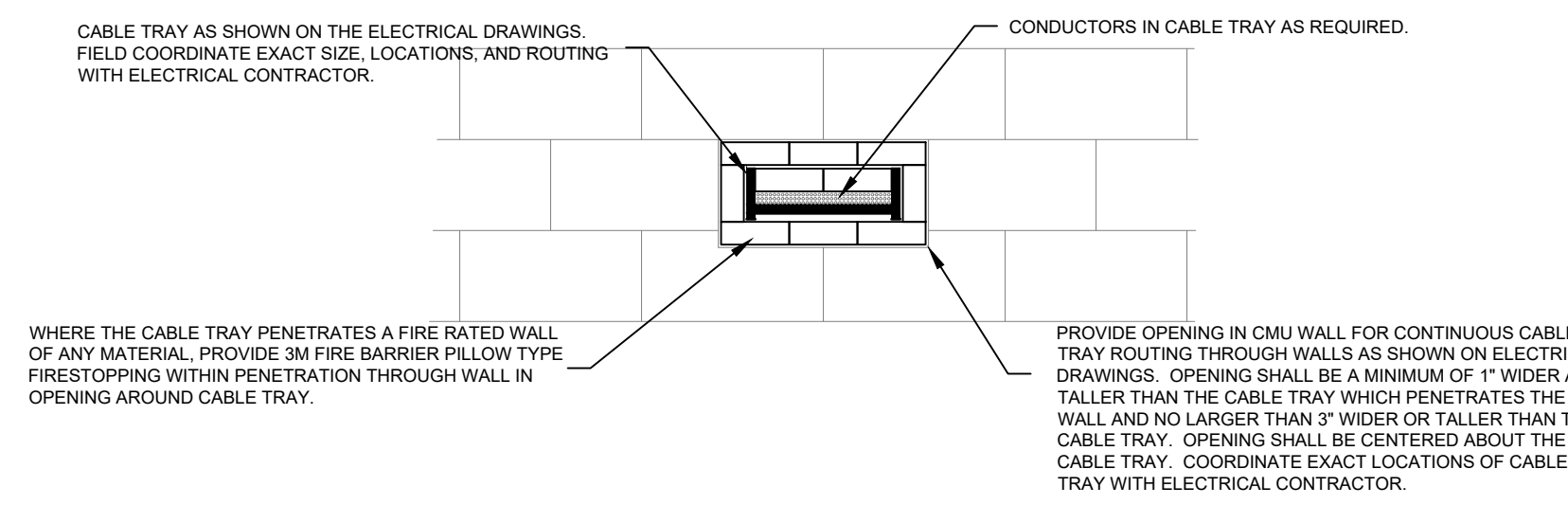
SCALE: 1/2" = 1'-0"



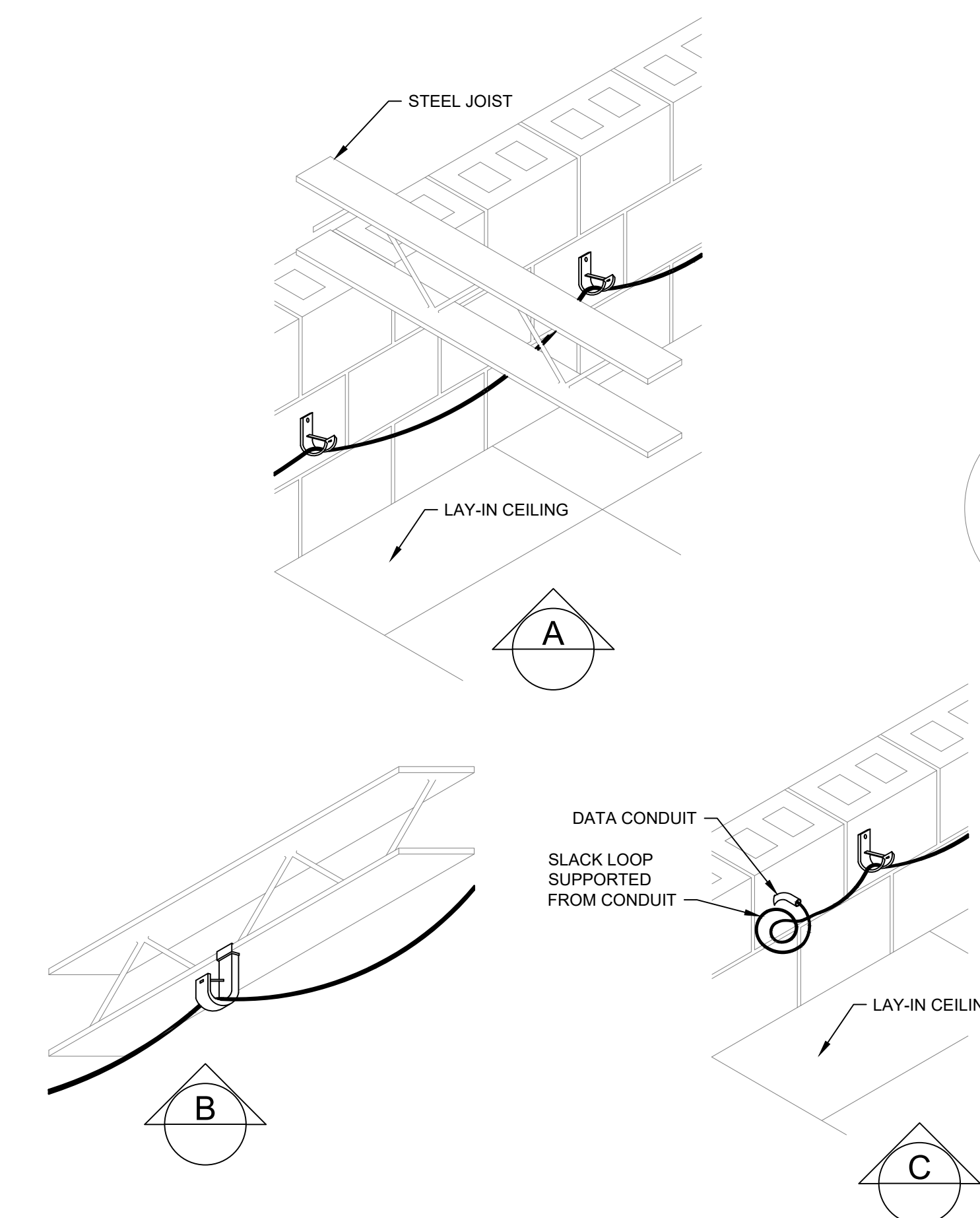
CLASSROOM AUDIO/VISUAL SYSTEM DETAIL AT MOBILE DISPLAYS
NOT TO SCALE



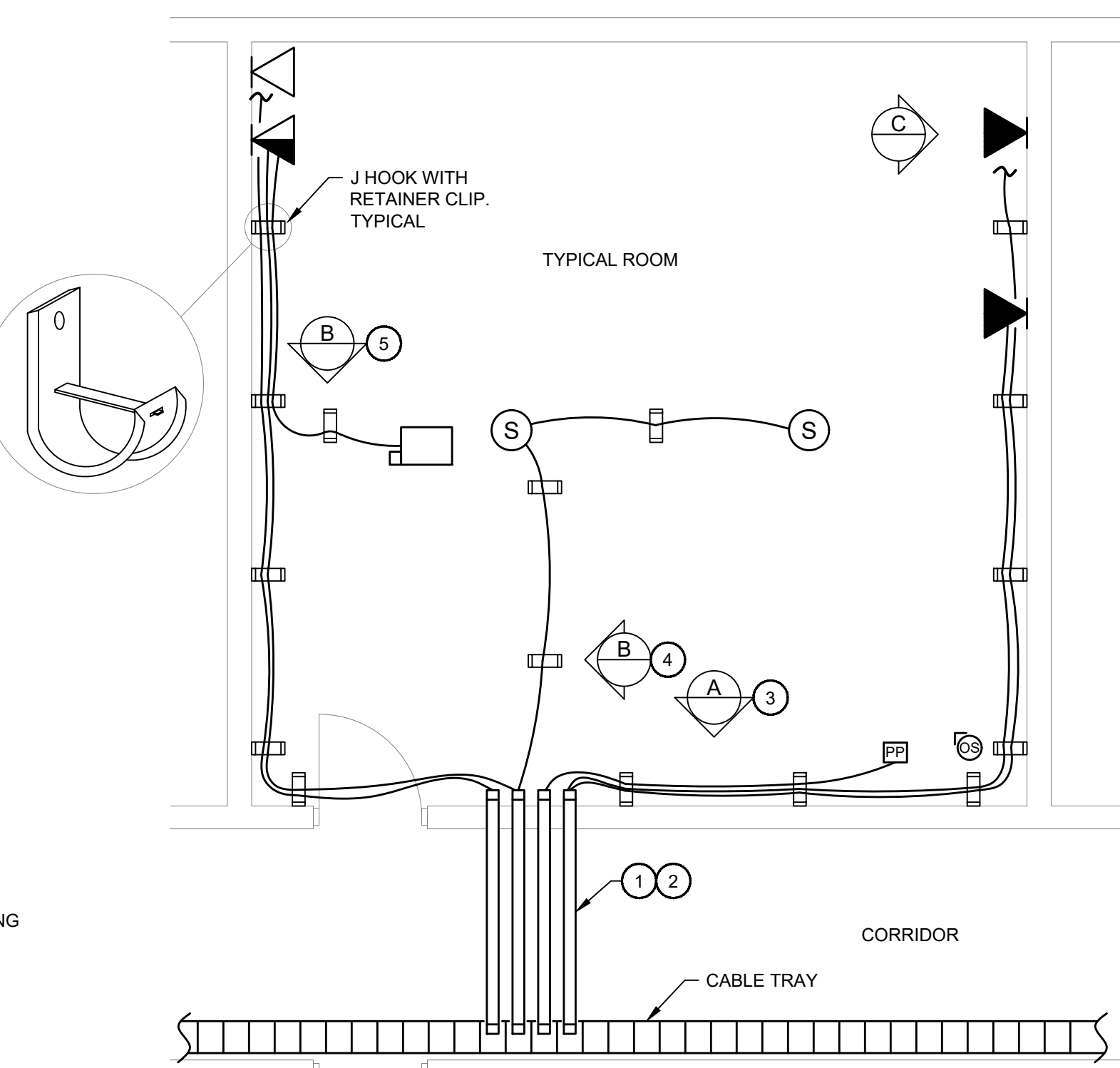
CLASSROOM AUDIO/VISUAL SYSTEM DETAIL AT WALL MOUNTED DISPLAYS
NOT TO SCALE



CABLE TRAY WALL PENETRATION DETAIL
NOT TO SCALE

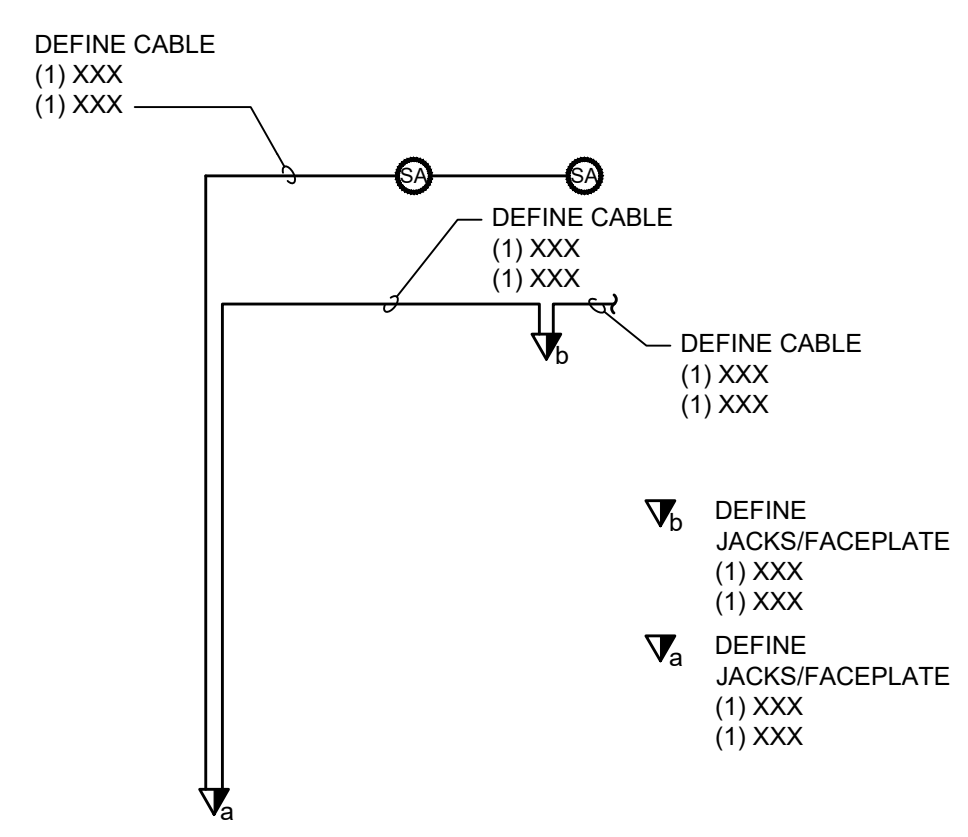


TYPICAL LOW VOLTAGE CABLE DISTRIBUTION
NOT TO SCALE

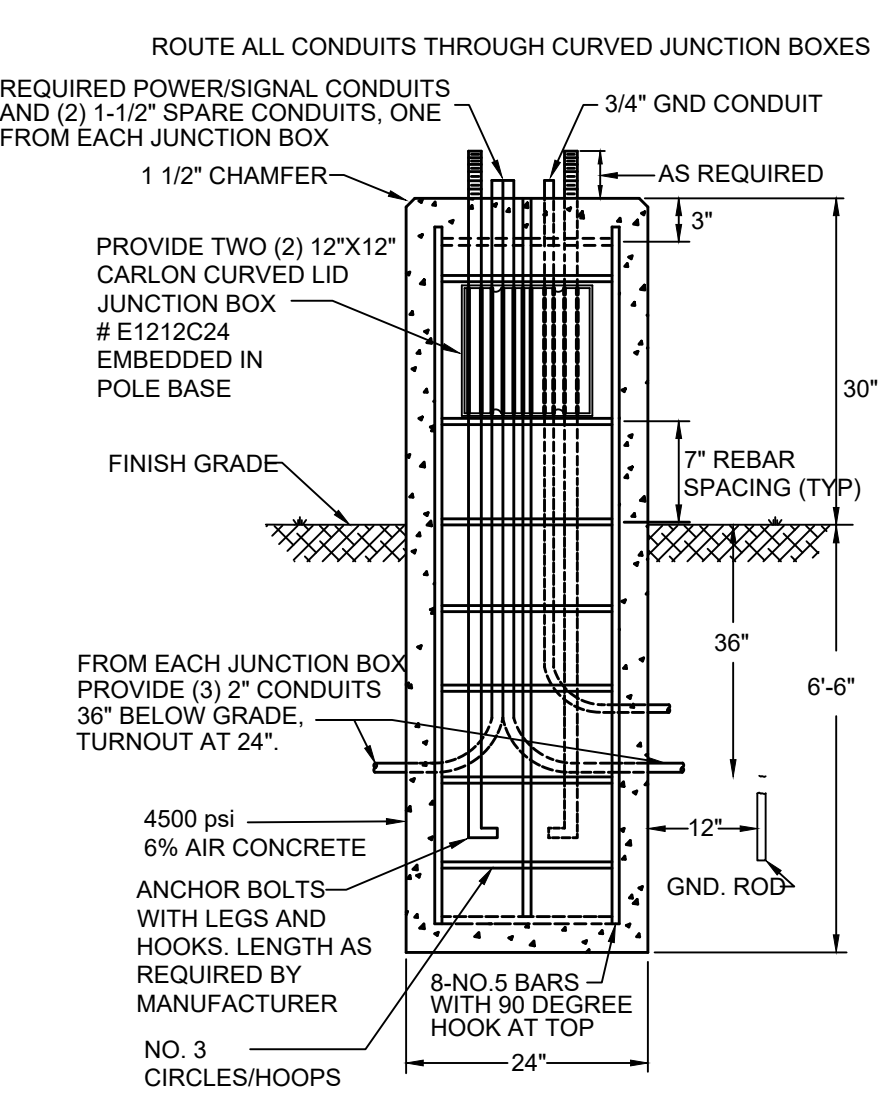


DETAIL NOTES

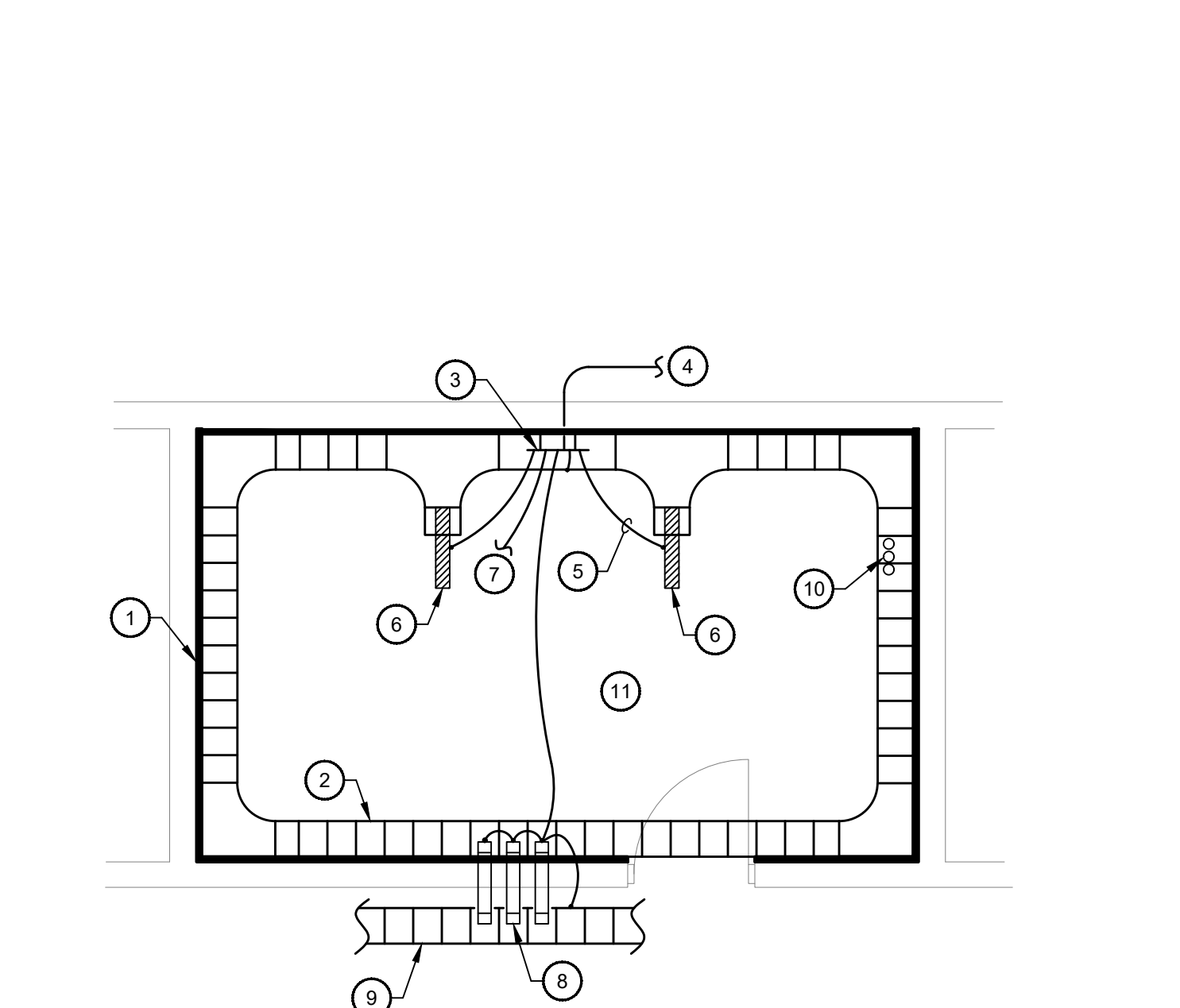
1. EXTEND CONDUIT SLEEVES FROM CABLE TRAY TO ROOM. PROVIDE A MINIMUM OF 1-INCH CONDUITS WITH A MINIMUM QUANTITY OF ONE PER VOICE/DATA OUTLET LOCATED IN THE ROOM. INSTALL AN ADDITIONAL ONE INCH CONDUIT FOR OTHER LOW VOLTAGE CABLING TO BE INSTALLED TO THE ROOM. FEWER LARGER CONDUITS SLEEVES MAY BE INSTALLED, BUT 40% FILL RATIO MUST BE MAINTAINED.
2. INSTALL ALL LOW VOLTAGE CABLES IN CONDUIT FROM THE CABLE TRAY TO THE ROOM. THIS INCLUDES VOICE/DATA, INTERCOM, LIGHTING CONTROLS, TELEVISION, ETC.
3. INSTALL J-HOOKS AROUND PERIMETER OF WALL TO OUTLETS AS SHOWN. MOUNT J-HOOKS BELOW THE STRUCTURAL JOISTS AND ABOVE THE CEILING. J-HOOKS SHALL BE INSTALLED NO MORE THAN 5 FEET ON CENTER (TYPICAL).
4. WHEN LOW VOLTAGE DEVICES ARE LOCATED AWAY FROM THE PERIMETER WALL, J-HOOKS SHALL BE MOUNTED TO THE BOTTOM OF THE STRUCTURAL JOISTS AND EXTEND TO THE DEVICE LOCATIONS AS SHOWN.
5. SUPPORT AV CABLING FROM THE MULTI-MEDIA OUTLET TO THE AV COMPONENTS IN J-HOOKS.



AUDIOVISUAL ONE-LINE
NOT TO SCALE



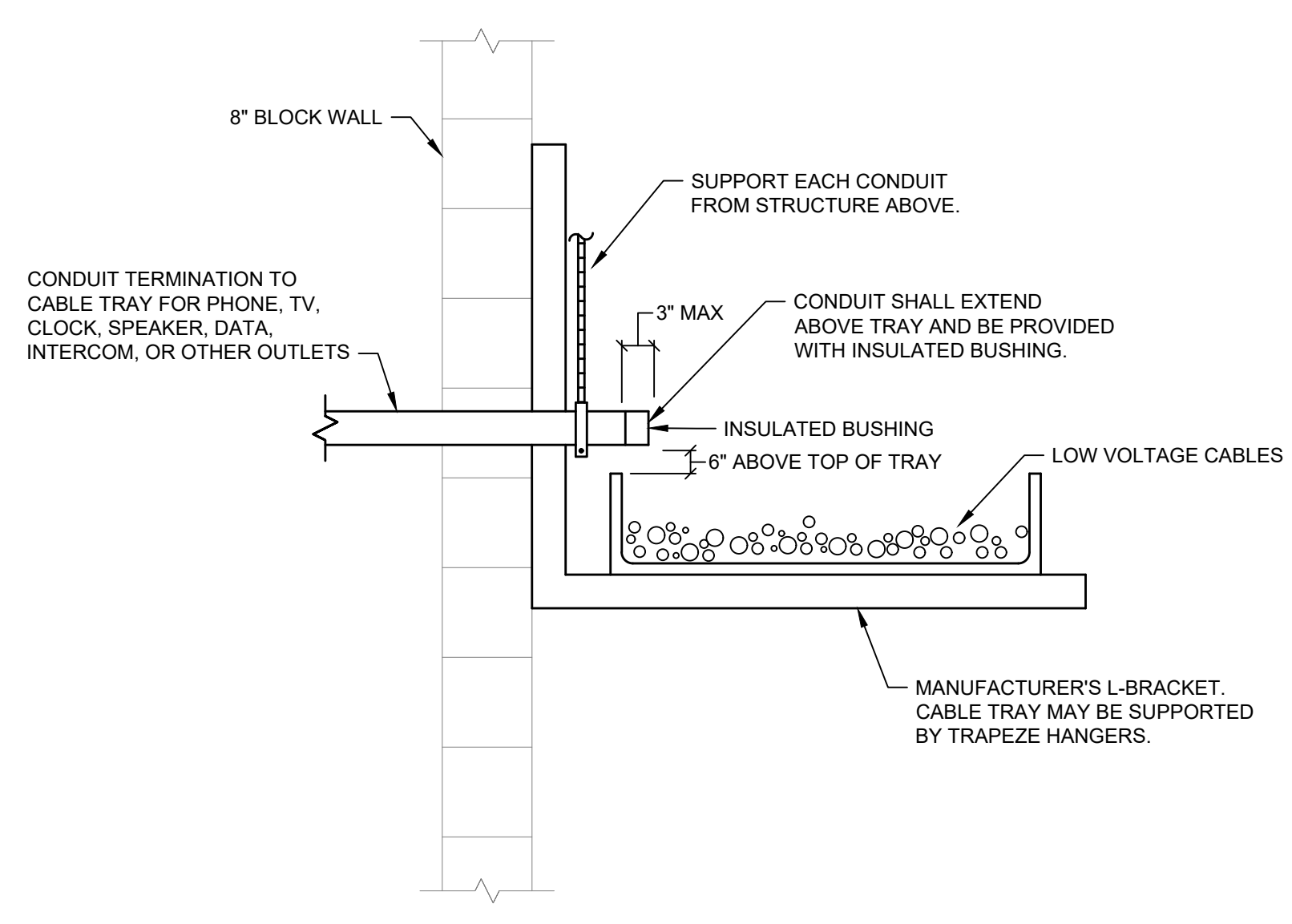
TALL POLE BASE PROFILE DETAIL
NOT TO SCALE



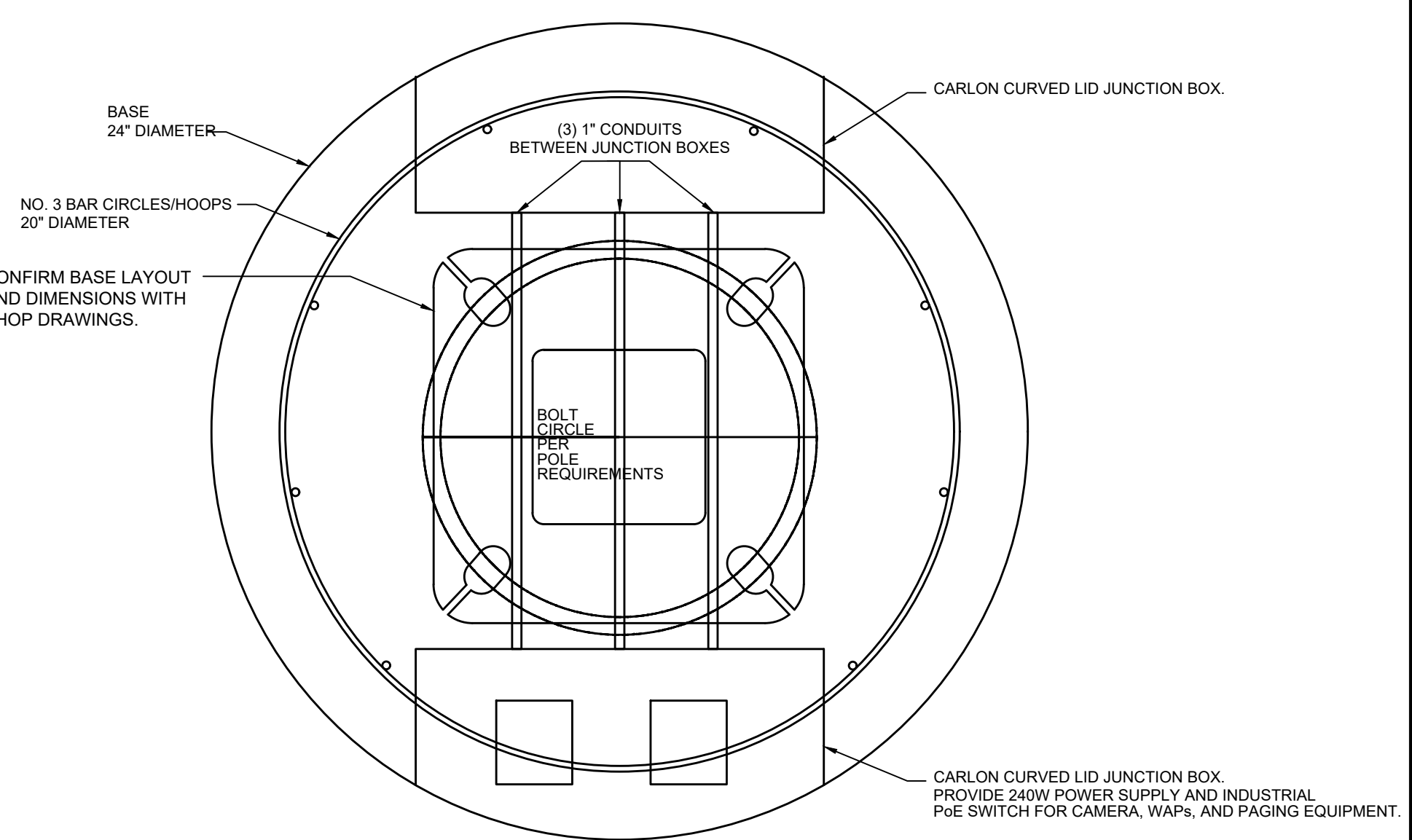
TYPICAL COMMUNICATION CLOSET CONSTRUCTION DETAIL
NOT TO SCALE

DETAIL NOTES

1. INSTALL 3/4 INCH THICK, FIRE RETARDANT PLYWOOD AROUND THE PERIMETER WALLS.
2. INSTALL CABLE RUNWAY AROUND THE PERIMETER WALLS. MOUNT ABOVE TOP OF DOOR FRAME. REFER TO DRAWINGS E305 THROUGH E311 FOR ADDITIONAL DETAIL.
3. INSTALL COPPER GROUNDING BUSBAR ADJACENT TO THE COMMUNICATION RACK(S). BUSBAR SHALL BE A MINIMUM OF 1/4 INCH THICK BY 4 INCHES WIDE BY 20 INCHES LONG.
4. INSTALL A #4 MINIMUM INSULATED GROUNDING CONDUCTOR IN CONDUIT TO THE ELECTRICAL SERVICE GROUNDING SYSTEM.
5. INSTALL A #4 MINIMUM INSULATED BONDING CONDUCTOR TO THE COMMUNICATION RACK(S), CONDUIT SLEEVES, CABLE RUNWAY, AND CABLE TRAY.
6. COMMUNICATION RACK SHOWN FOR REFERENCE ONLY. REFER TO THE FLOOR PLAN FOR THE EXACT LOCATION AND QUANTITY OF RACKS TO BE INSTALLED.
7. INSTALL BONDING CONDUCTOR TO TELEPHONE AND DATA SERVICE ENTRANCE. COORDINATE REQUIREMENTS WITH THE UTILITY COMPANY. REFER TO THE FLOOR PLANS FOR SERVICE ENTRANCE LOCATIONS.
8. INSTALL EMT CONDUIT SLEEVES WITH INSULATED GROUNDING BUSHINGS ON THE CLOSET SIDE AND NON-GROUNDING INSULATED BUSHINGS ON THE OPPOSITE SIDE. INSTALL SLEEVES BETWEEN THE COMMUNICATIONS CLOSET AND CABLE TRAY. REFER TO THE FLOOR PLANS FOR CABLE TRAY LOCATIONS. INSTALL QUANTITY OF CONDUITS AS REQUIRED TO MAINTAIN A 40% FILL RATIO. REFER TO DRAWINGS E305 THROUGH E311 FOR ADDITIONAL DETAIL.
9. CABLE TRAY. REFER TO THE FLOOR PLANS FOR LOCATION.
10. INSTALL COMMUNICATION SERVICE ENTRANCE CONDUITS. INSTALL CONDUITS TO 4 INCHES ABOVE FINISHED FLOOR. REFER TO THE FLOOR PLANS FOR THE SERVICE ENTRANCE LOCATION, QUANTITY, AND SIZE OF CONDUITS.
11. THIS DETAIL DESCRIBES THE GENERAL CONSTRUCTION REQUIREMENTS FOR ALL COMMUNICATION CLOSETS. REFER TO THE FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.



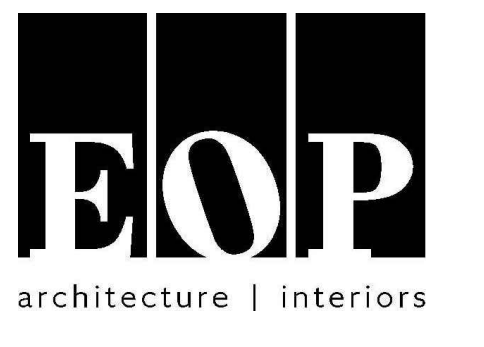
CONDUIT/CABLE TRAY DETAIL
NOT TO SCALE



POLE AND BASE PLATE PLAN DETAIL
NOT TO SCALE

BID DOCUMENTS

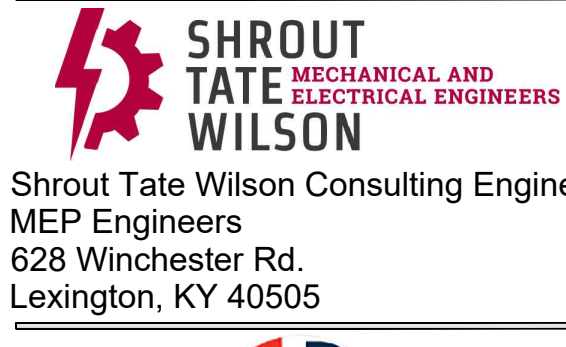
REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
3	10/21/22 ADDENDUM 3
4	10/28/22 ADDENDUM 4



PROJECT TEAM
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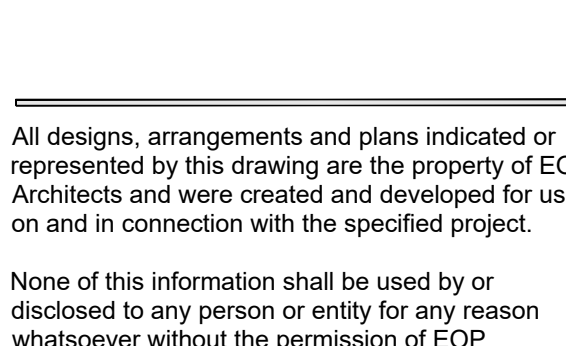
Element Design, PLLC.
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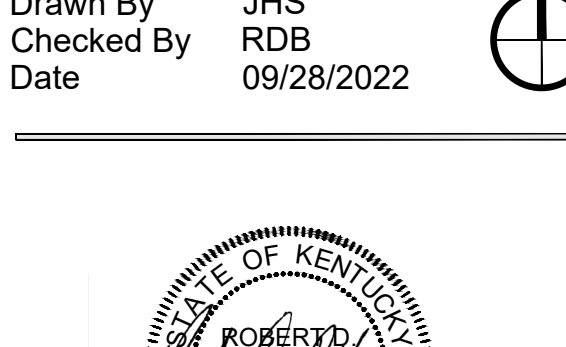
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KEYPLAN

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Job Number 2150
Drawn By JHS
Checked By RDB
Date 09/28/2022

PLAN TRUE

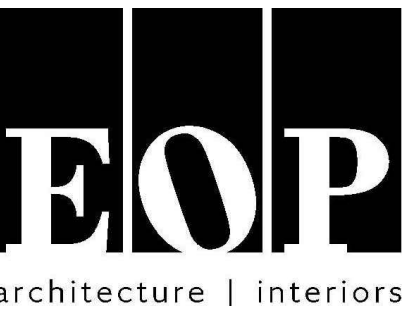
STATE OF KENTUCKY
REGISTERED PROFESSIONAL ENGINEER
EOP ARCHITECTS
10/28/2022

ELECTRICAL DETAILS

ADD #4
10/28/2022

E501

REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



PROJECT TEAM

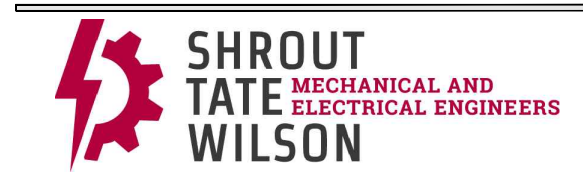
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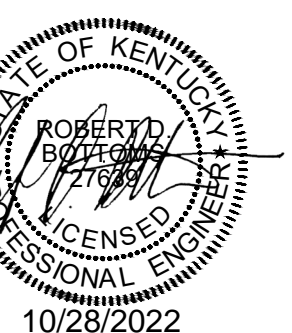
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Job Number 2150
Drawn By JHS
Checked By RDB
Date 09/28/2022



**ELECTRICAL
DETAILS**

ADD #4
10/28/2022

E503

LIGHTING CONTROL SEQUENCE OF OPERATION																													
LC-T	SPACE TYPE/FUNCTION	OCCUPANCY SENSOR		TIME CLOCK			WALL SWITCH				DAYLIGHT		OTHER		ZONE CONTROL	NOTES													
		VACANCY MODE	OCCUPANCY MODE	SENSOR TIMEOUT PERIOD (MINUTES)	DUAL TECHNOLOGY	OCCUPIED HOURS	SCHEDULED ON AT	SCHEDULED OFF AT	SCHEDULE OVERRIDE SWITCH	MANUAL (ON/OFF) - LV	MANUAL DIMMING (0-10V)	KEY SWITCH - LV MOMENTARY	PRESET SCENE CONTROL	ZONE CONTROL			GRAPHICAL TOUCHSCREEN	COLOR TUNING	SWITCHING (ON/OFF)	DIMMING	TARGET LIGHT LEVEL	EXTERIOR LOCATION	EM NIGHT LIGHT DIMMING	RGBW CONTROL	EXHAUST FAN	PLUG LOAD CONTROLS			
LC-01	CLASSROOM	X	-	30-MIN	X	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,5
LC-02	CLASSROOM DAYLIGHT	X	-	30-MIN	X	-	-	-	-	X	X	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	1,2,5
LC-03	OFFICE	X	-	30-MIN	X	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
LC-04	LAB	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	
LC-05	LAB W/ DIMMING	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	
LC-06	LAB W/ COLOR TUNING	-	-	-	-	-	-	-	-	X	X	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	5	
LC-07	LAB W/ DIMMING & OS	X	-	30-MIN	X	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	
LC-08	CONFERENCE	X	-	30-MIN	X	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	
LC-09	STAIR TOWER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
LC-10	STAIR TOWER	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3	
LC-11	CORRIDOR	-	X	30-MIN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4
LC-12	MULTI-PURPOSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	1,5	
LC-13	RESTROOM	X	-	30-MIN	X	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
LC-14	GANG RESTROOM STALLS	-	X	30-MIN	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
LC-15	EXTERIOR CANOPY	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3
LC-16	1-ZONE DIMMING	X	-	30-MIN	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	

GENERAL NOTES

- A BASIS OF DESIGN: nLIGHT, WATTSTOPPER AND HUBBELL EQUIVALENTS
- B PROVIDE A COMPLETE NETWORKED LIGHTING CONTROL SYSTEM
- C PROVIDE ALL MATERIAL AND LABOR NECESSARY TO PERFORM ZONE CONTROL FUNCTIONS DESCRIBED ABOVE
- D PROVIDE DETAILED LIGHTING CONTROL FLOOR PLANS AT PLAN SCALE, RISERS, ETC WITH SHOP DRAWING SUBMITTALS
- E LIGHTING CONTROL RISERS SHOW TYPICAL CONNECTIONS BETWEEN DEVICES AND LIGHT FIXTURES, COORDINATE QUANTITY OF DEVICES, FIXTURES, ZONES, ETC WITH CONTRACT FLOOR PLANS
- F COORDINATE ALL PROGRAMMED TIME OF DAY SCHEDULES AND OCCUPIED HOURS WITH OWNER
- G SEE DRAWINGS FOR AREAS WITH EMERGENCY CIRCUIT, SEE DETIL LC-EM FOR ADDITIONAL EMERGENCY CIRCUIT WIRING AND CONTROL REQUIREMENTS

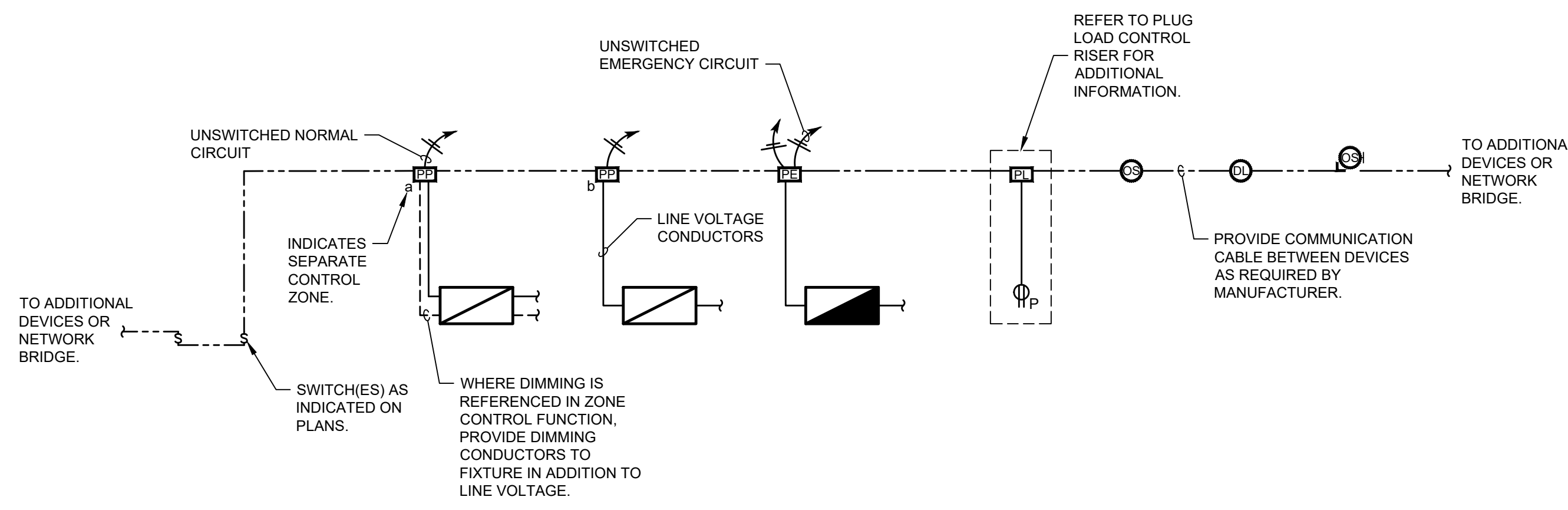
NOTES

- 1 AUTOMATIC DAYLIGHT DIMMING FOR ZONE(S) INDICATED ON PLAN
- 2 LIGHTS SHALL AUTOMATICALLY TURN ON AT 50% AND TURN OFF WHEN THE SPACE IS VACANT.
- 3 LIGHTS SHALL AUTOMATICALLY TURN ON AT 100%, DIM TO 30% WHEN UNOCCUPIED, AND TURN OFF AFTER 5 MINUTES OF ADDITIONAL VACANCY.
- 4 LIGHTS SHALL TURN ON AT DAWN AND TURN OFF AT CLOSE OF BUSINESS. IN THE MORNING, LIGHTS SHALL TURN ON AT TIME OF EXPECTED OCCUPANCY AND TURN OFF AT DUSK.
- 5 COORDINATE ALL ZONE AND/OR SCENE CONTROLS WITH OWNER.

LIGHTING CONTROL LEGEND	
SYMBOL	DESCRIPTION
⊘ ^A	ON/OFF
⊘ ^B	ON/OFF, RAISE/LOWER
⊘ ^C	2-ZONE, ON/OFF
⊘ ^E	2-ZONE, ON/OFF, RAISE/LOWER
⊘ ^F	OCCUPANCY SENSOR, ON/OFF
⊘ ^G	OCCUPANCY SENSOR, ON/OFF, RAISE/LOWER
⊘ ^H	4-ZONE, ON/OFF, RAISE/LOWER
⊘ ^K	2-ZONE, ON/OFF, RAISE/LOWER, COLOR TUNING
⊘ ^L	LOW VOLTAGE SWITCH
⊞ ^{1A}	POWER PACK WITH 0-10V DIMMING - 'a' SUBSCRIPT INDICATES ZONE
⊞ ^{2A}	EMERGENCY POWER PACK WITH 0-10V DIMMING - 'a' SUBSCRIPT INDICATES ZONE
⊞ ^{3A}	PLUG LOAD CONTROL POWER PACK - 'a' SUBSCRIPT INDICATES ZONE
⊞ ^{4A}	SYSTEM CONTROLLER
⊞ ^{5A}	USER CONTROLLER
⊞ ^{6A}	NETWORK BRIDGE
⊞ ^{7A}	LIGHT FIXTURE DRIVER. REFER TO LIGHT FIXTURE SCHEDULE - 'a' SUBSCRIPT INDICATES ZONE CONTROL.
⊞ ⁸	RJ45 SPLITTER
⊞ ^{9A}	POWER SUPPLY
⊞ ¹⁰	960 DEGREE DUAL TECHNOLOGY OCCUPANCY SENSOR
⊞ ¹¹	CORNER MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR
⊞ ¹²	DAYLIGHT SENSOR
---	2#18 DIMMING CONDUCTOR CABLE
---	CATEGORY 5E UTP NETWORK CABLE

GENERAL NOTES

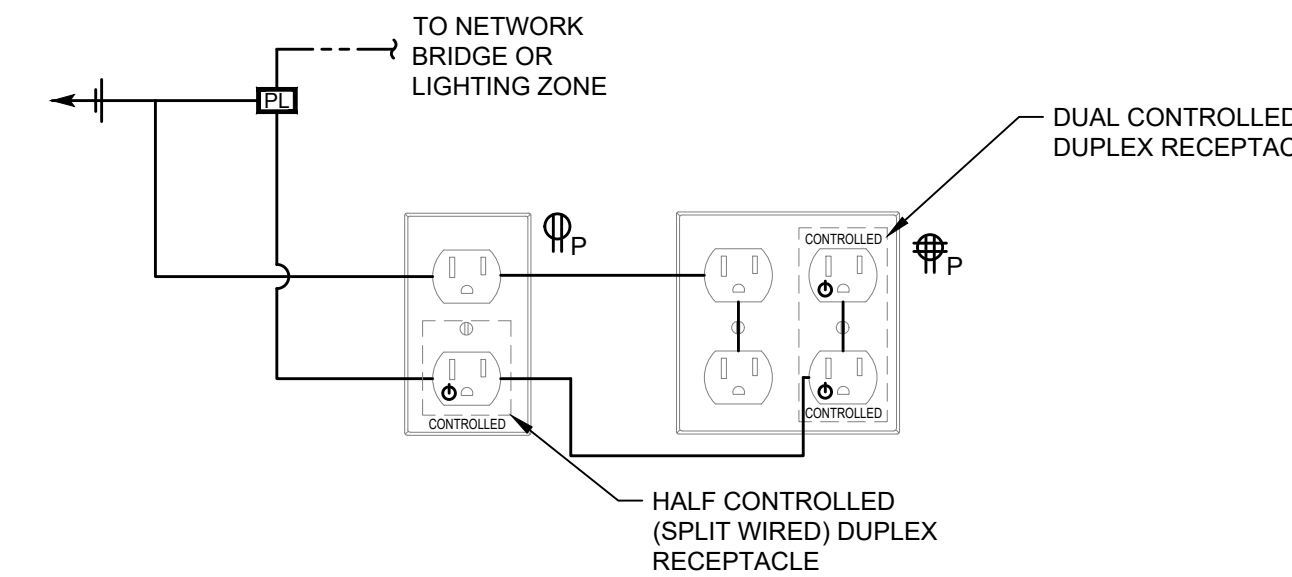
- A. NETWORK BRIDGES, POWER SUPPLIES AND ASSOCIATED WIRING NOT SHOWN ON PLAN. PROVIDE QUANTITY AND INSTALLATION AS REQUIRED BY SYSTEM MANUFACTURER. LOCATE SYSTEM CONTROLLER IN MDF, IDF, AND/OR ABOVE ACCESSIBLE PORTIONS OF CEILING AND CONCEALED FROM VIEW.



TYPICAL LIGHTING CONTROL RISER

NOT TO SCALE

NOTE: LIGHTING CONTROL RISER SHOWS TYPICAL CONNECTIONS BETWEEN DEVICES AND LIGHT FIXTURES. REFER TO THE FLOOR PLANS FOR QUANTITIES OF DEVICES, LIGHT FIXTURES, AND ZONES.

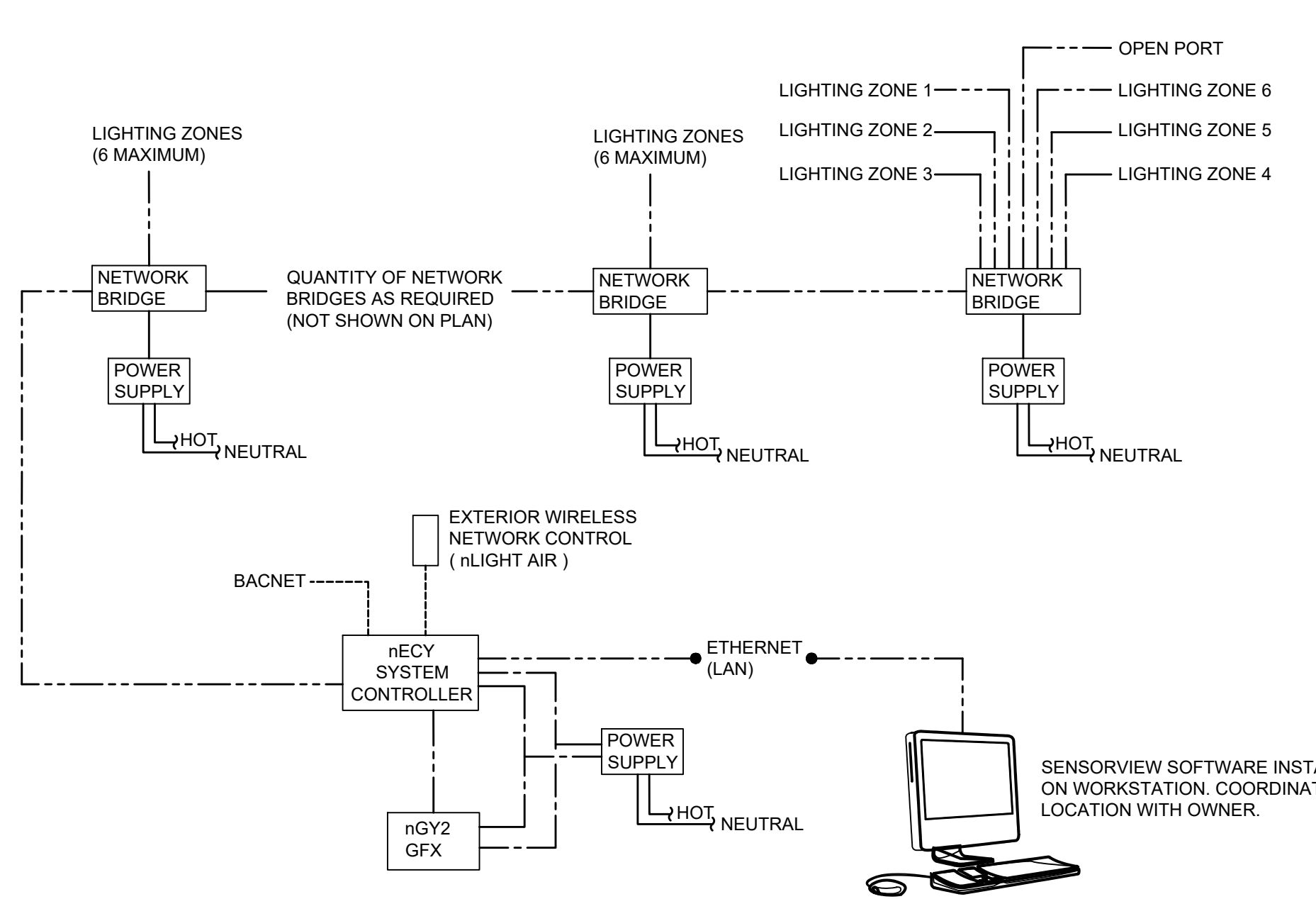


- ZONE CONTROL (NETWORKED SYSTEM)**
 - 1. OCCUPIED TIME
 - 2. UNOCCUPIED TIME
 - 3. OCCUPIED TIME
 - 4. UNOCCUPIED TIME
 - A. AUTO-ON, REMAIN ON.
- ZONE CONTROL (STAND ALONE SYSTEM)**
 - 1. AUTO-ON WHEN OCCUPANCY DETECTED
 - 2. AUTO-OFF AFTER ON OCCUPANCY DETECTED FOR 15 MINUTES.

TYPICAL PLUG LOAD CONTROL RISER

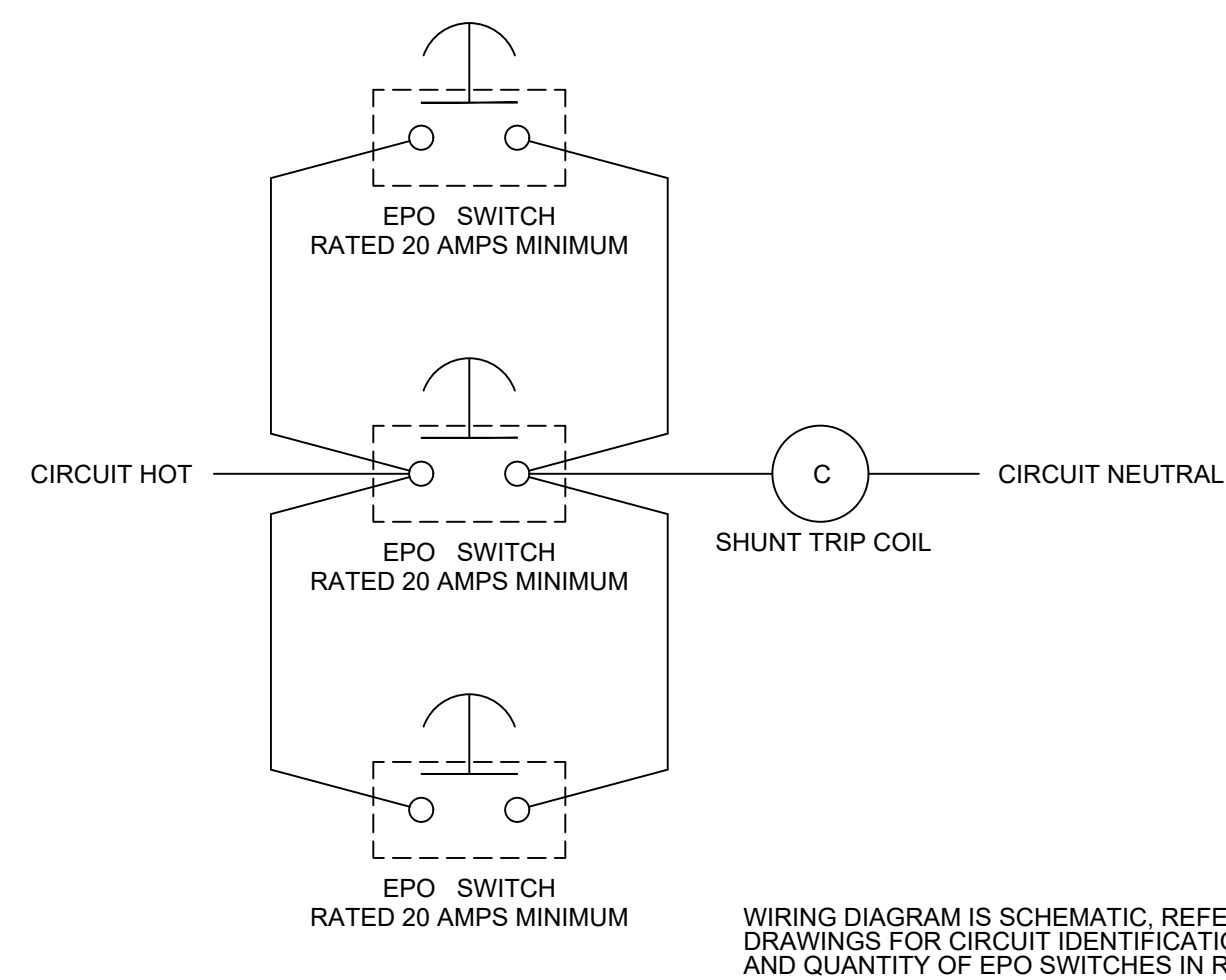
NOT TO SCALE

- NOTES**
- 1. CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED FROM THE FACTORY.
- 2. COORDINATE OCCUPIED/UNOCCUPIED TIMES WITH OWNER.



LIGHTING CONTROL SYSTEM NETWORK

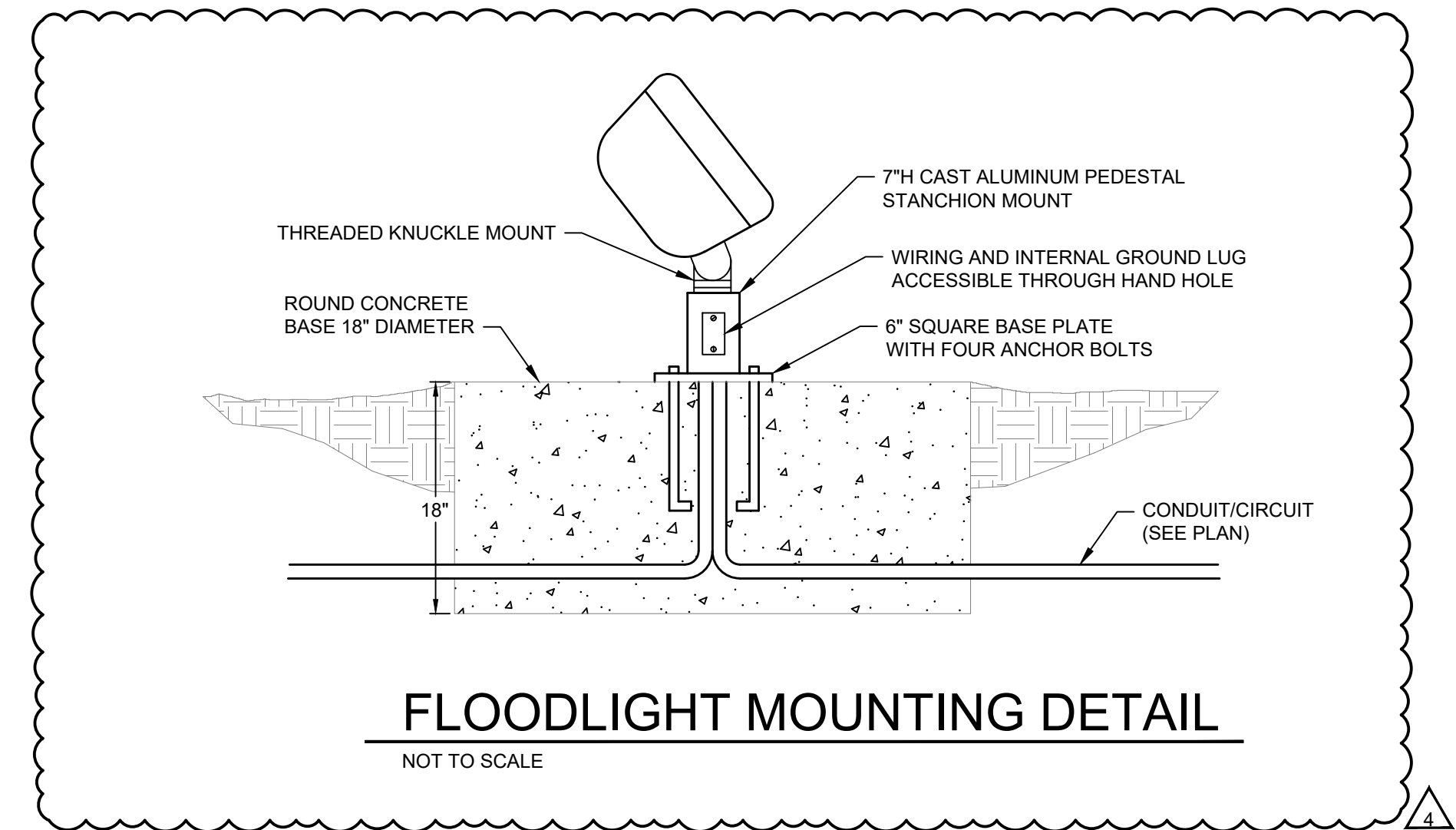
NOT TO SCALE



WIRING DIAGRAM IS SCHEMATIC. REFER TO DRAWINGS FOR CIRCUIT IDENTIFICATION AND QUANTITY OF EPO SWITCHES IN ROOMS

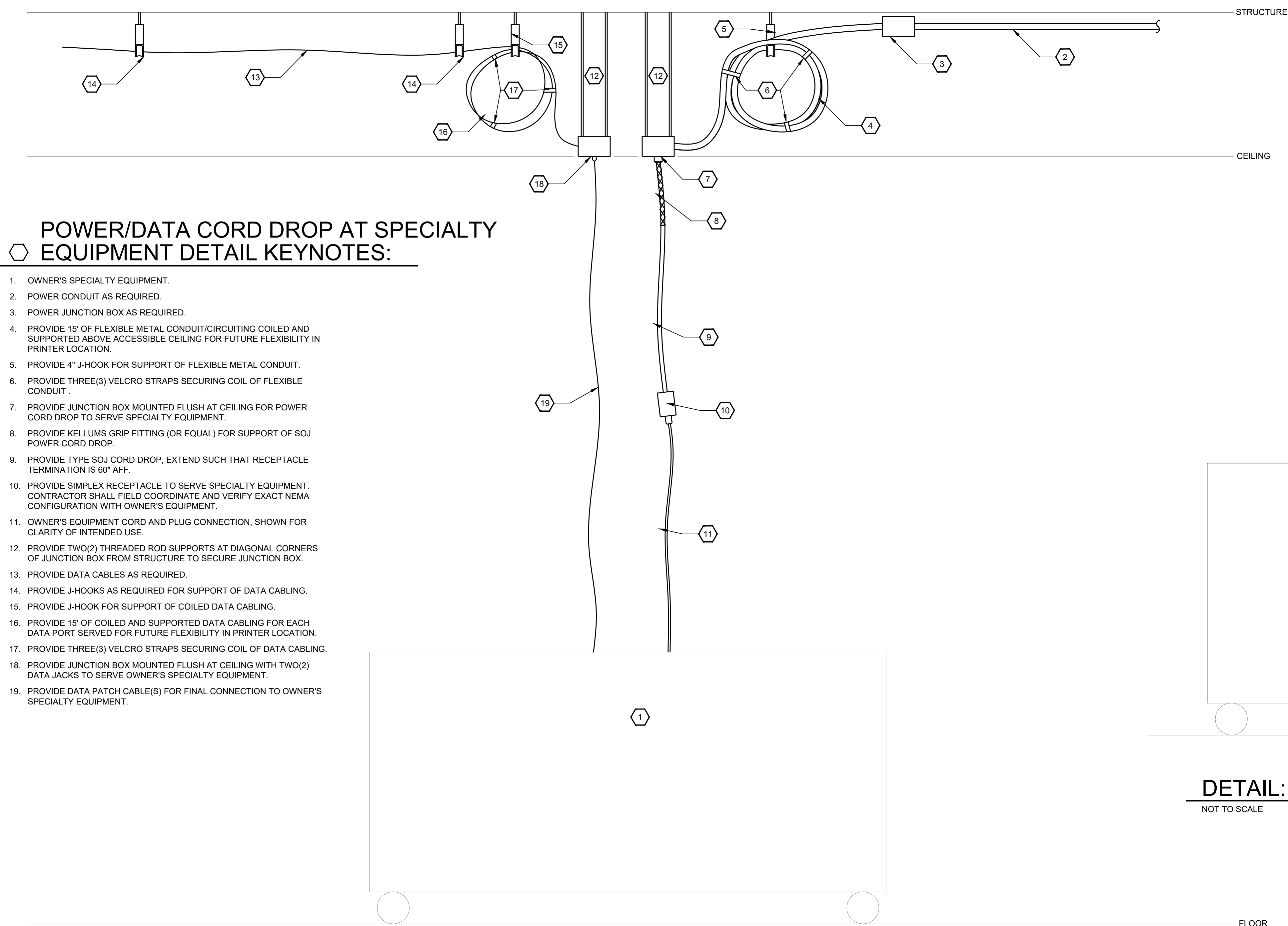
EMERGENCY POWER OFF (EPO) WIRING DIAGRAM

NOT TO SCALE



FLOODLIGHT MOUNTING DETAIL

NOT TO SCALE

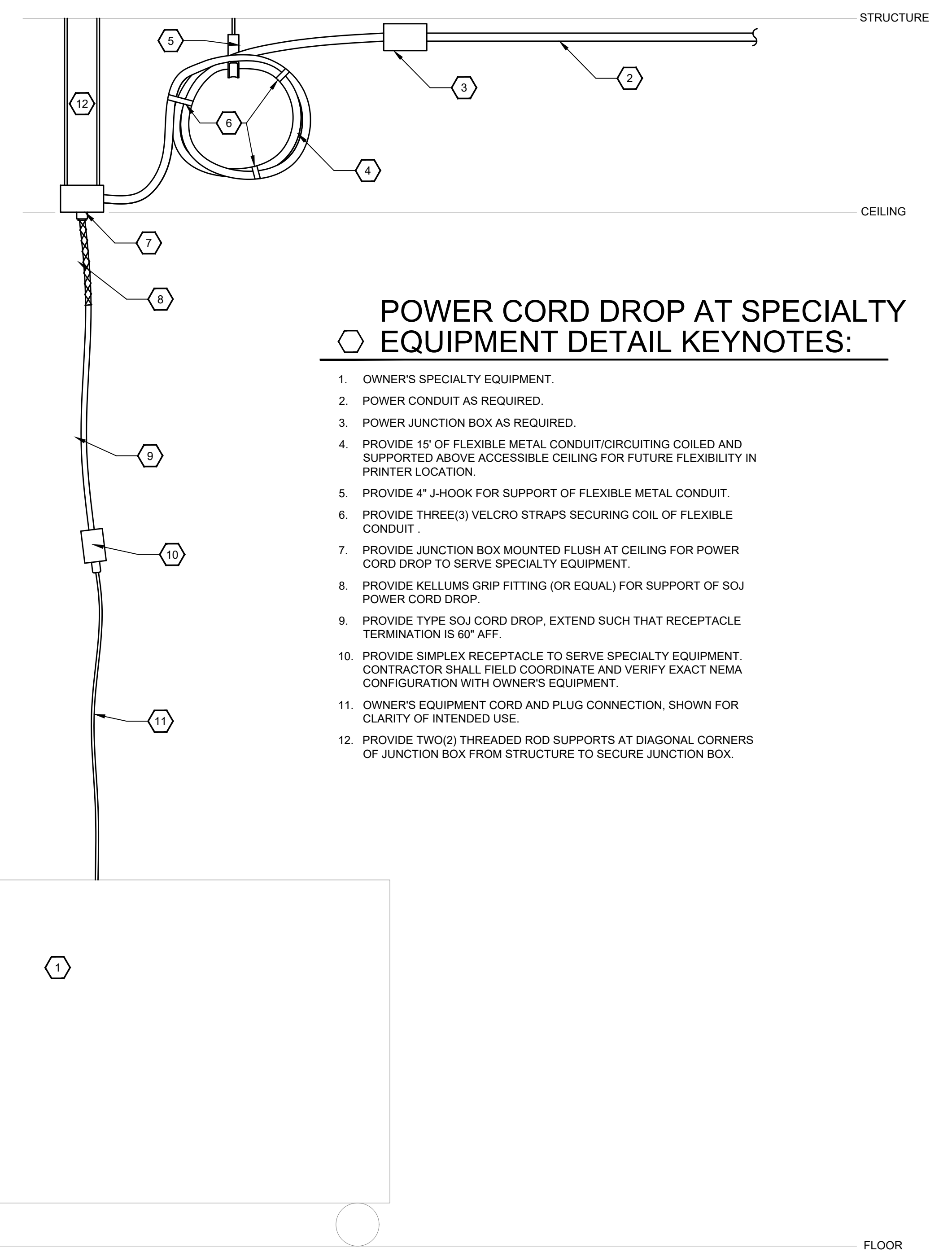


POWER/DATA CORD DROP AT SPECIALTY EQUIPMENT DETAIL KEYNOTES:

1. OWNER'S SPECIALTY EQUIPMENT.
2. POWER CONDUIT AS REQUIRED.
3. POWER JUNCTION BOX AS REQUIRED.
4. PROVIDE 15' OF FLEXIBLE METAL CONDUIT/CIRCUITING COILED AND SUPPORTED ABOVE ACCESSIBLE CEILING FOR FUTURE FLEXIBILITY IN PRINTER LOCATION.
5. PROVIDE 4" J-HOOK FOR SUPPORT OF FLEXIBLE METAL CONDUIT.
6. PROVIDE THREE(3) VELCRO STRAPS SECURING COIL OF FLEXIBLE CONDUIT.
7. PROVIDE JUNCTION BOX MOUNTED FLUSH AT CEILING FOR POWER CORD DROP TO SERVE SPECIALTY EQUIPMENT.
8. PROVIDE KELLUMS GRIP FITTING (OR EQUAL) FOR SUPPORT OF SOJ POWER CORD DROP.
9. PROVIDE TYPE SOJ CORD DROP. EXTEND SUCH THAT RECEPTACLE TERMINATION IS 60" AFF.
10. PROVIDE SIMPLEX RECEPTACLE TO SERVE SPECIALTY EQUIPMENT. CONTRACTOR SHALL FIELD COORDINATE AND VERIFY EXACT NEMA CONFIGURATION WITH OWNER'S EQUIPMENT.
11. OWNER'S EQUIPMENT CORD AND PLUG CONNECTION, SHOWN FOR CLARITY OF INTENDED USE.
12. PROVIDE TWO(2) THREADED ROD SUPPORTS AT DIAGONAL CORNERS OF JUNCTION BOX FROM STRUCTURE TO SECURE JUNCTION BOX.
13. PROVIDE DATA CABLES AS REQUIRED.
14. PROVIDE J-HOOKS AS REQUIRED FOR SUPPORT OF DATA CABLING.
15. PROVIDE J-HOOK FOR SUPPORT OF COILED DATA CABLING.
16. PROVIDE 15' OF COILED AND SUPPORTED DATA CABLING FOR EACH DATA PORT SERVED FOR FUTURE FLEXIBILITY IN PRINTER LOCATION.
17. PROVIDE THREE(3) VELCRO STRAPS SECURING COIL OF DATA CABLING.
18. PROVIDE JUNCTION BOX MOUNTED FLUSH AT CEILING WITH TWO(2) DATA JACKS TO SERVE OWNER'S SPECIALTY EQUIPMENT.
19. PROVIDE DATA PATCH CABLE(S) FOR FINAL CONNECTION TO OWNER'S SPECIALTY EQUIPMENT.

DETAIL: POWER/DATA CORD DROP AT SPECIALTY EQUIPMENT

NOT TO SCALE



POWER CORD DROP AT SPECIALTY EQUIPMENT DETAIL KEYNOTES:

1. OWNER'S SPECIALTY EQUIPMENT.
2. POWER CONDUIT AS REQUIRED.
3. POWER JUNCTION BOX AS REQUIRED.
4. PROVIDE 15' OF FLEXIBLE METAL CONDUIT/CIRCUITING COILED AND SUPPORTED ABOVE ACCESSIBLE CEILING FOR FUTURE FLEXIBILITY IN PRINTER LOCATION.
5. PROVIDE 4" J-HOOK FOR SUPPORT OF FLEXIBLE METAL CONDUIT.
6. PROVIDE THREE(3) VELCRO STRAPS SECURING COIL OF FLEXIBLE CONDUIT.
7. PROVIDE JUNCTION BOX MOUNTED FLUSH AT CEILING FOR POWER CORD DROP TO SERVE SPECIALTY EQUIPMENT.
8. PROVIDE KELLUMS GRIP FITTING (OR EQUAL) FOR SUPPORT OF SOJ POWER CORD DROP.
9. PROVIDE TYPE SOJ CORD DROP. EXTEND SUCH THAT RECEPTACLE TERMINATION IS 60" AFF.
10. PROVIDE SIMPLEX RECEPTACLE TO SERVE SPECIALTY EQUIPMENT. CONTRACTOR SHALL FIELD COORDINATE AND VERIFY EXACT NEMA CONFIGURATION WITH OWNER'S EQUIPMENT.
11. OWNER'S EQUIPMENT CORD AND PLUG CONNECTION, SHOWN FOR CLARITY OF INTENDED USE.
12. PROVIDE TWO(2) THREADED ROD SUPPORTS AT DIAGONAL CORNERS OF JUNCTION BOX FROM STRUCTURE TO SECURE JUNCTION BOX.

DETAIL: POWER CORD DROP AT SPECIALTY EQUIPMENT

NOT TO SCALE

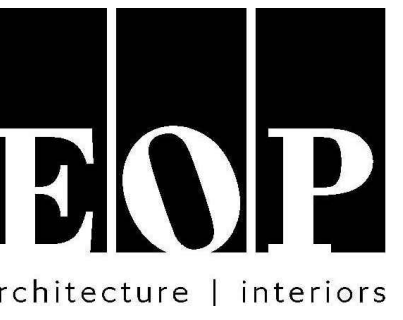
NEW COMBINED CTE SCHOOL

BG# 22-167

100 Midland Ave,
Lexington, KY 40508

BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



PROJECT TEAM

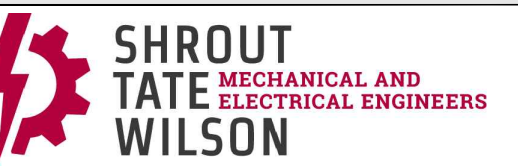
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Vine Grove, KY 40175

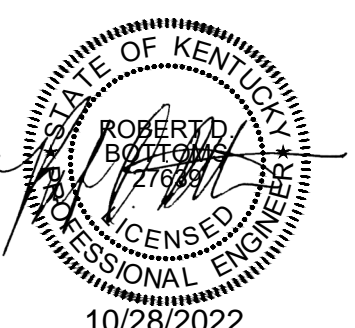
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Checked By RDB
Date 09/28/2022



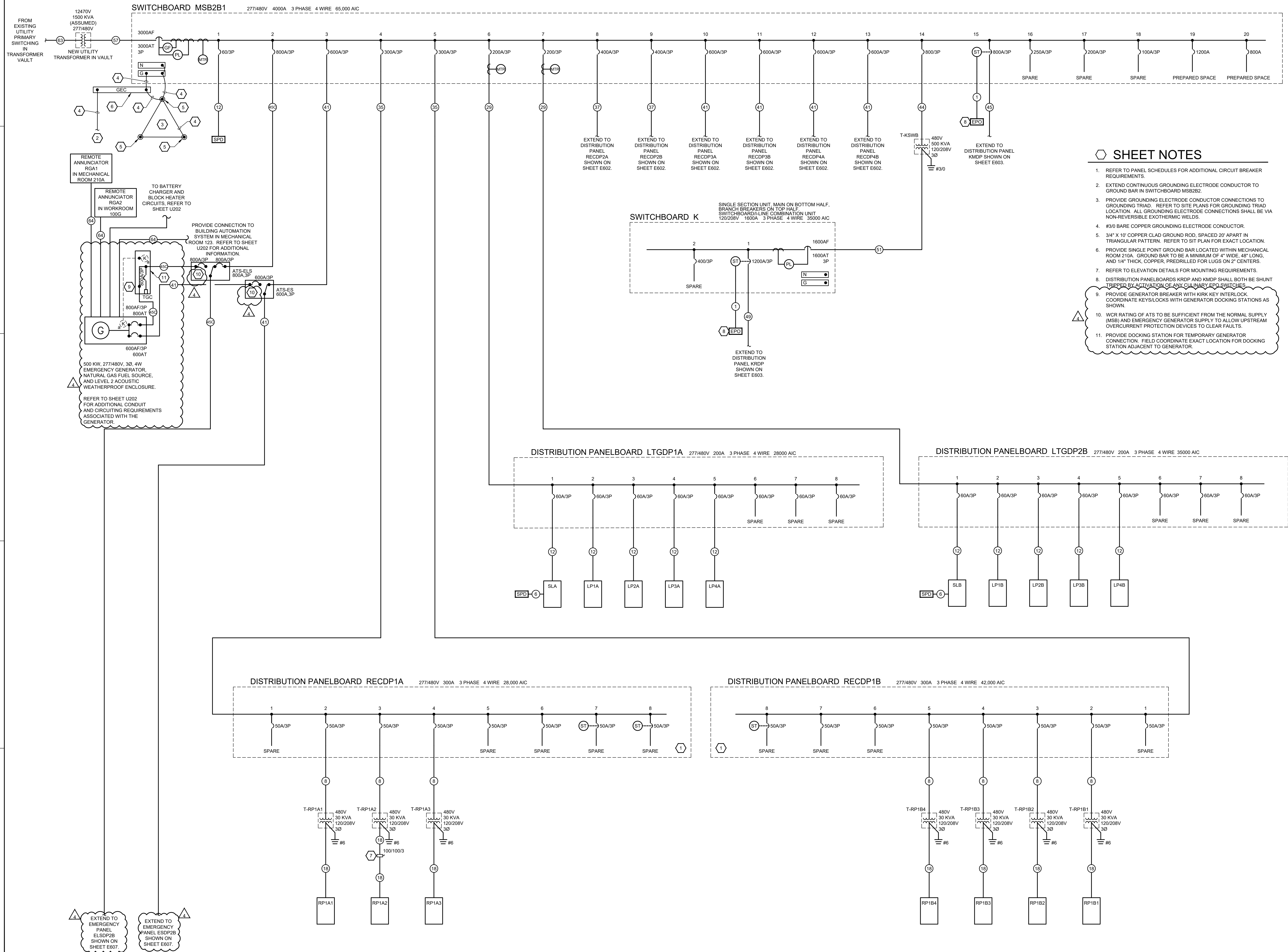
ELECTRICAL FIXTURE SCHEDULE

ADD #4
10/28/2022

E504

ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES GENERAL NOTES:

A. REFER TO SHEETS E002 AND E600 FOR ADDITIONAL GENERAL NOTES.



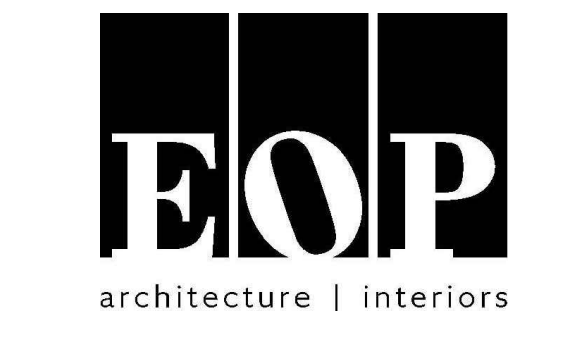
SHEET NOTES

- REFER TO PANEL SCHEDULES FOR ADDITIONAL CIRCUIT BREAKER REQUIREMENTS.
- EXTEND CONTINUOUS GROUNDING ELECTRODE CONDUCTOR TO GROUND BAR IN SWITCHBOARD MSB2B2.
- PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTIONS TO GROUNDING TRIAD. REFER TO SITE PLANS FOR GROUNDING TRIAD LOCATION. ALL GROUNDING ELECTRODE CONNECTIONS SHALL BE VIA NON-REVERSIBLE EXOTHERMIC WELDS.
- #30 BARE COPPER GROUNDING ELECTRODE CONDUCTOR.
- 3/4" X 10' COPPER CLAD GROUND ROD, SPACED 20' APART IN TRIANGULAR PATTERN. REFER TO SIT PLAN FOR EXACT LOCATION.
- PROVIDE SINGLE POINT GROUND BAR LOCATED WITHIN MECHANICAL ROOM 210A. GROUND BAR TO BE A MINIMUM OF 4" WIDE, 48" LONG, AND 1/4" THICK, COPPER, PREDRILLED FOR LUGS ON 2" CENTERS.
- REFER TO ELEVATION DETAILS FOR MOUNTING REQUIREMENTS.
- DISTRIBUTION PANELBOARDS KRDP AND KMPP SHALL BOTH BE SHUNT TRIPPED BY ACTIVATION OF ANY OIL-BURNING SWITCHES.
- PROVIDE GENERATOR BREAKER WITH KIRK KEY INTERLOCK. COORDINATE KEYS/LOCKS WITH GENERATOR DOCKING STATIONS AS SHOWN.
- WCR RATING OF ATS TO BE SUFFICIENT FROM THE NORMAL SUPPLY (MSB) AND EMERGENCY GENERATOR SUPPLY TO ALLOW UPSTREAM OVERCURRENT PROTECTION DEVICES TO CLEAR FAULTS.
- PROVIDE DOCKING STATION FOR TEMPORARY GENERATOR CONNECTION. FIELD COORDINATE EXACT LOCATION FOR DOCKING STATION ADJACENT TO GENERATOR.

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REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



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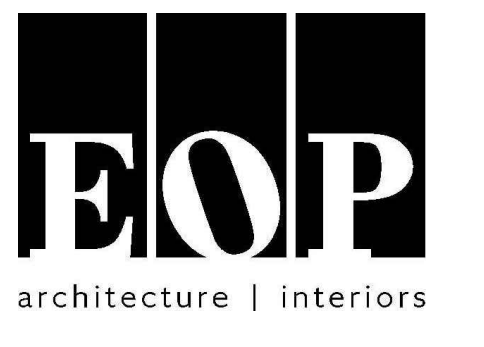
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ELECTRICAL PARTIAL ONE-LINE DIAGRAM
 ADD #4
 10/28/2022
E601

REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
3	10/21/22 ADDENDUM 3
4	10/28/22 ADDENDUM 4



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Date 09/28/2022



**ELECTRICAL
PARTIAL ONE-LINE
DIAGRAM**
ADD #4
10/28/2022

E602

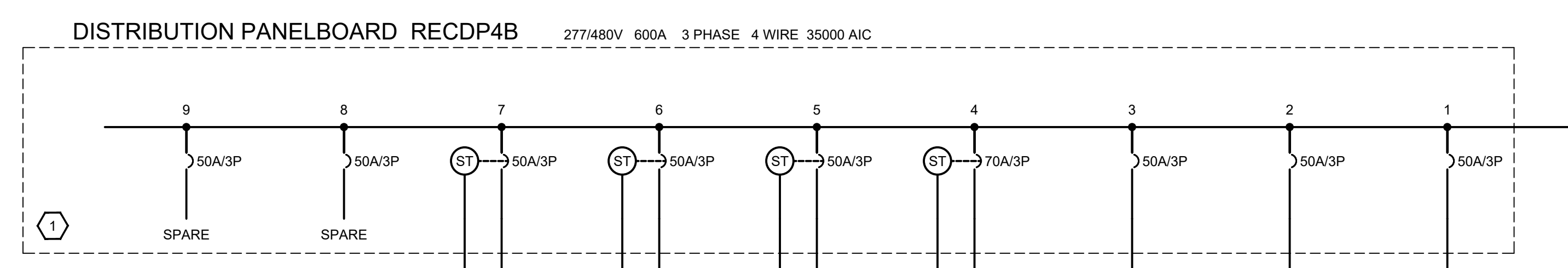
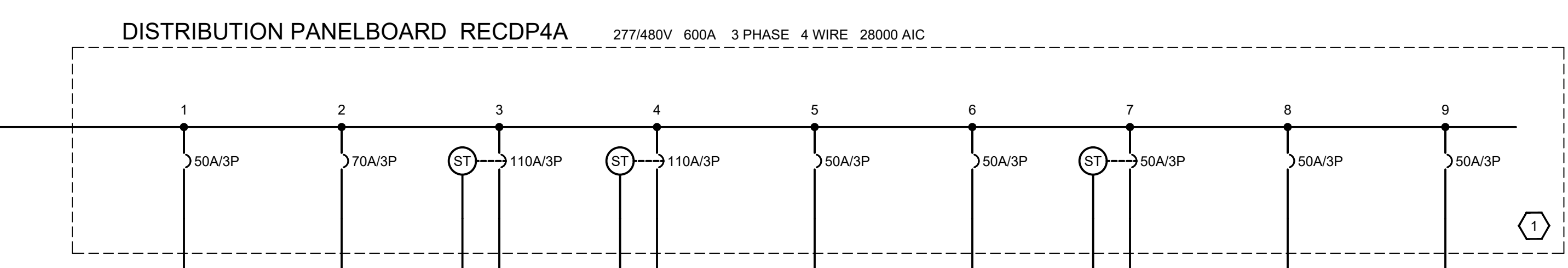
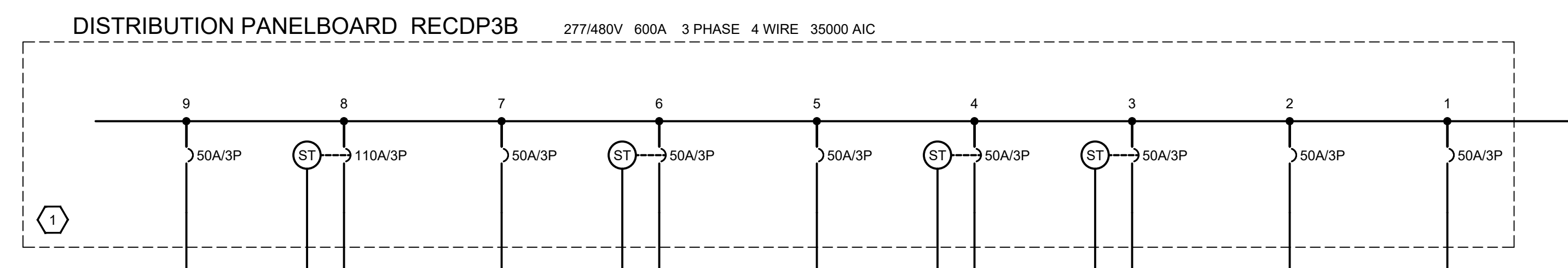
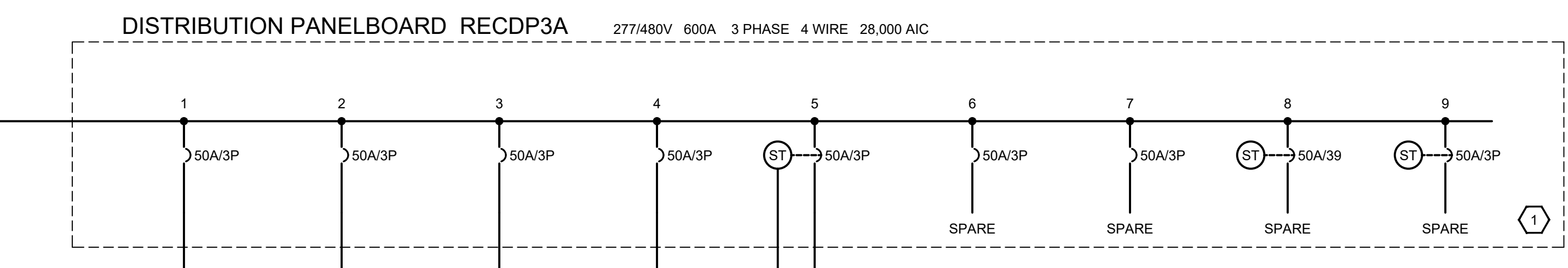
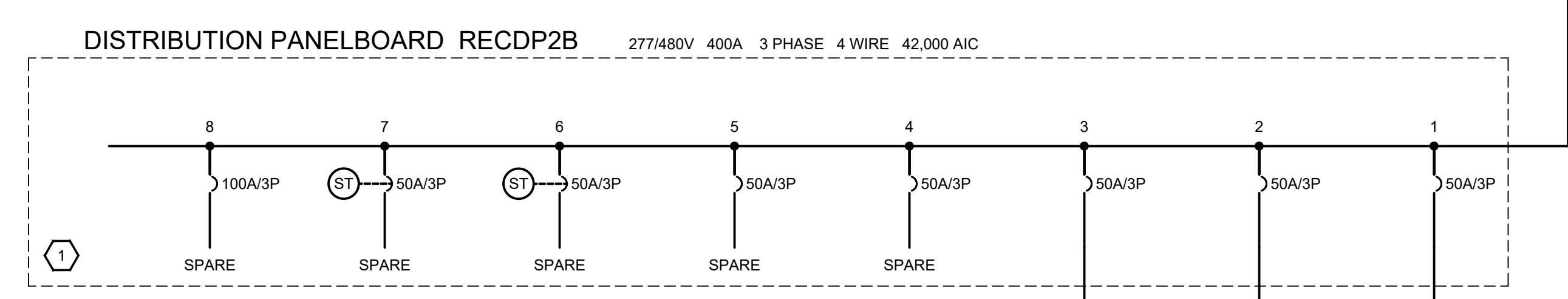
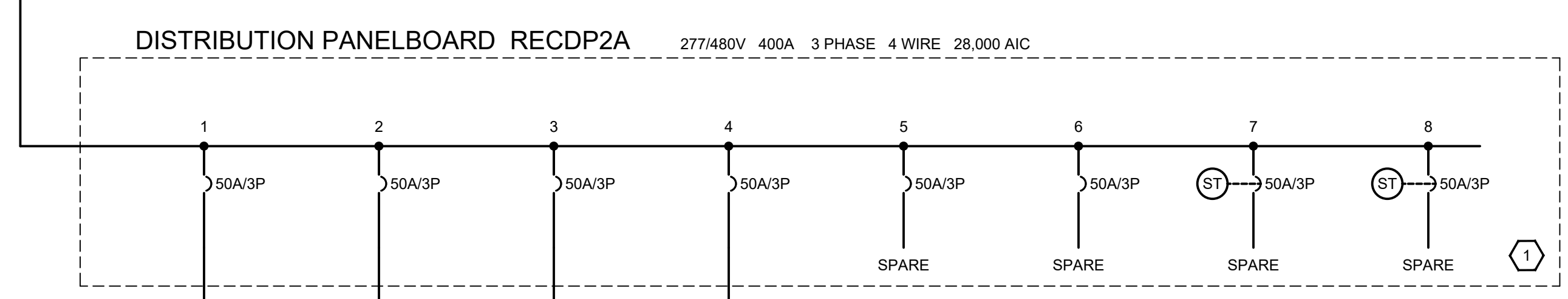
**ELECTRICAL ONE-LINE DIAGRAM AND
PANEL SCHEDULES GENERAL NOTES:**

A. REFER TO SHEETS E002 AND E600 FOR ADDITIONAL GENERAL NOTES.

EXTEND FROM SWITCHBOARD MSB2B1 SHOWN ON SHEET E601.
EXTEND FROM SWITCHBOARD MSB2B1 SHOWN ON SHEET E601.
EXTEND FROM SWITCHBOARD MSB2B1 SHOWN ON SHEET E601.
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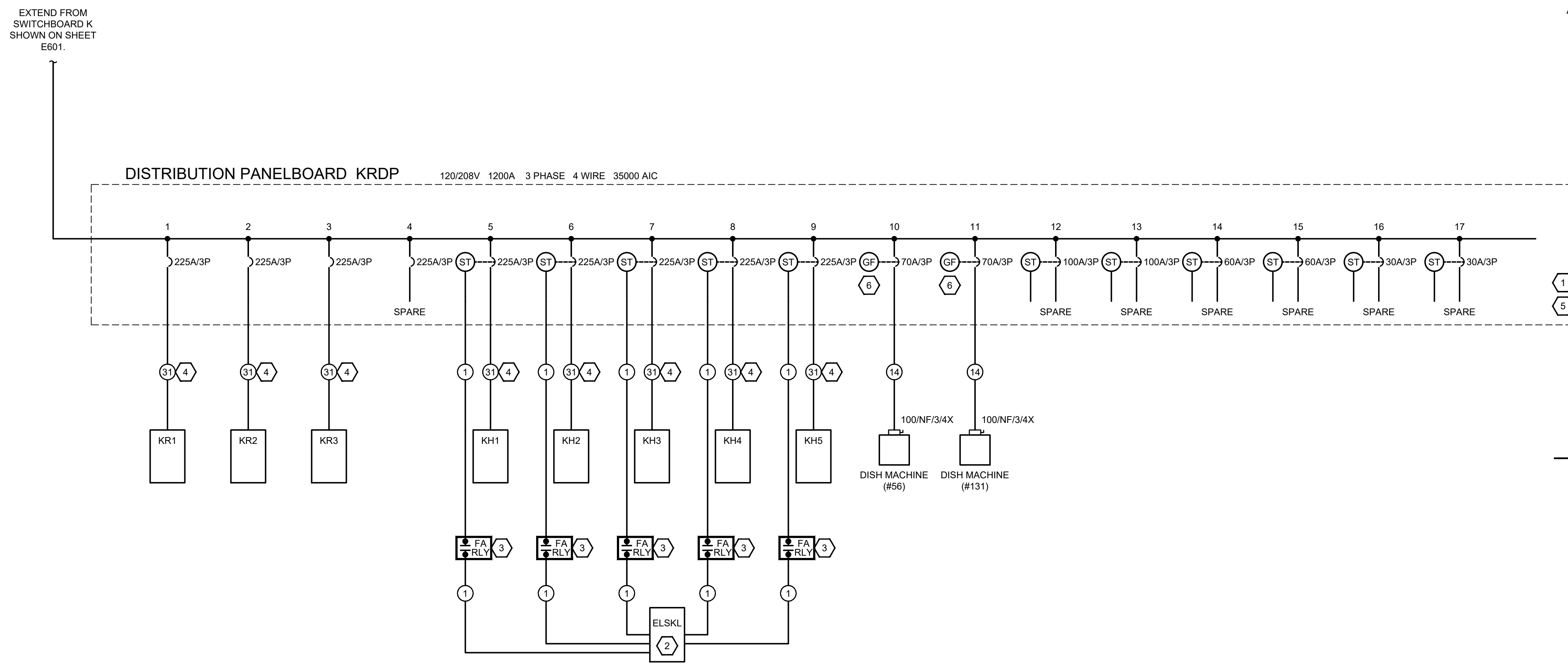
SHEET NOTES

1. REFER TO PANEL SCHEDULES FOR ADDITIONAL CIRCUIT BREAKER REQUIREMENTS.



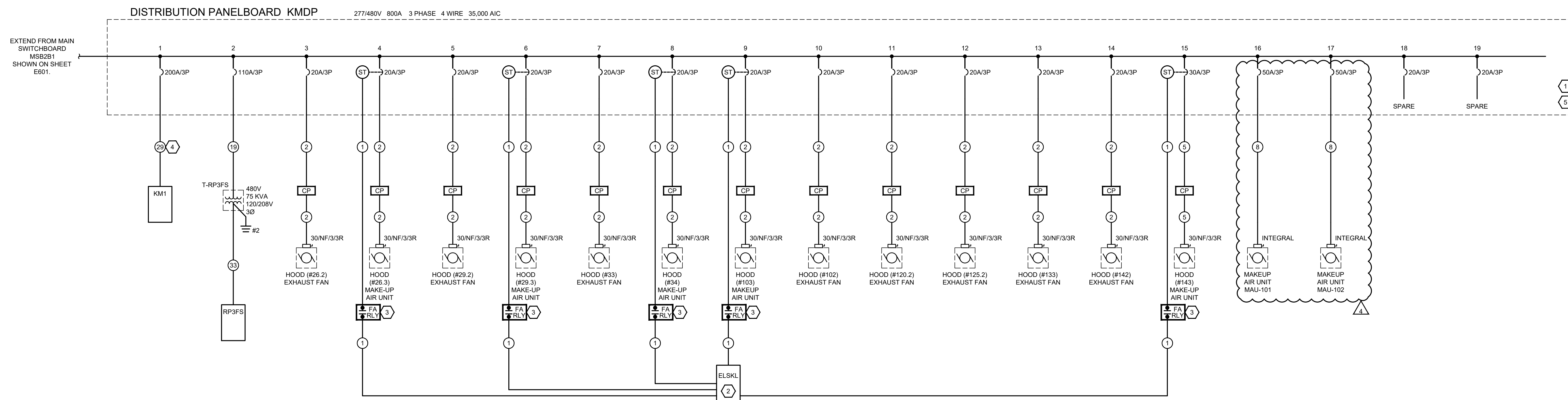
ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES GENERAL NOTES:

A. REFER TO SHEETS E002 AND E600 FOR ADDITIONAL GENERAL NOTES.



SHEET NOTES

- REFER TO PANEL SCHEDULES FOR ADDITIONAL CIRCUIT BREAKER REQUIREMENTS.
- REFER TO PANEL SCHEDULE FOR ADDITIONAL CIRCUIT NUMBERS.
- EXTEND CIRCUIT THROUGH HOOD CONTROLLER AS REQUIRED FOR SHUNT CONTROL OF ASSOCIATED PANEL MAIN CIRCUIT BREAKER. FIELD COORDINATE EXACT WIRING REQUIREMENTS.
- ROUTE PORTION OF FEEDER THROUGH WIREWAY. REFER TO SHEETS E405 AND E406 FOR ADDITIONAL REQUIREMENTS.
- THIS DISTRIBUTION PANEL TO HAVE 108" TOTAL BRANCH CIRCUIT BREAKER SPACE WITH FULL BUSSING. UNUSED POSITIONS TO BE SPACES.
- CONTRACTOR MAY PROVIDE GROUND FAULT PROTECTION VIA EXTERNAL DEVICE IN THE EVENT THAT A GFCI CIRCUIT BREAKER IS UNAVAILABLE. IF GFCI PROTECTION IS ACHIEVED VIA AN EXTERNAL DEVICE, CONTRACTOR SHALL PROVIDE ALL REQUIRED CIRCUITING, DISCONNECT SWITCHES, OVERCURRENT PROTECTION, ETC. FOR A COMPLETE AND OPERATIONAL POWER CONNECTION TO THE CULINARY EQUIPMENT.



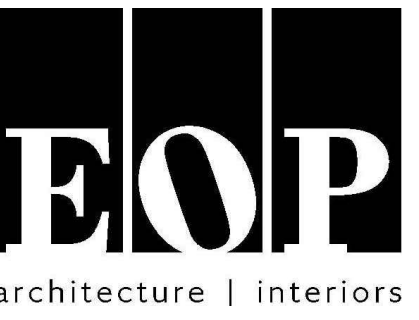
NEW COMBINED CTE SCHOOL

BG# 22-167

100 Midland Ave,
Lexington, KY 40508

BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



PROJECT TEAM

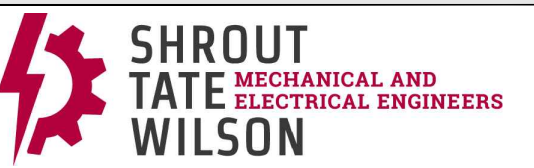
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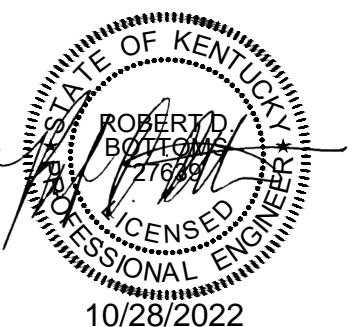
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Drawn By JHS
Checked By RDB
Date 09/28/2022

PLAN

TRUE



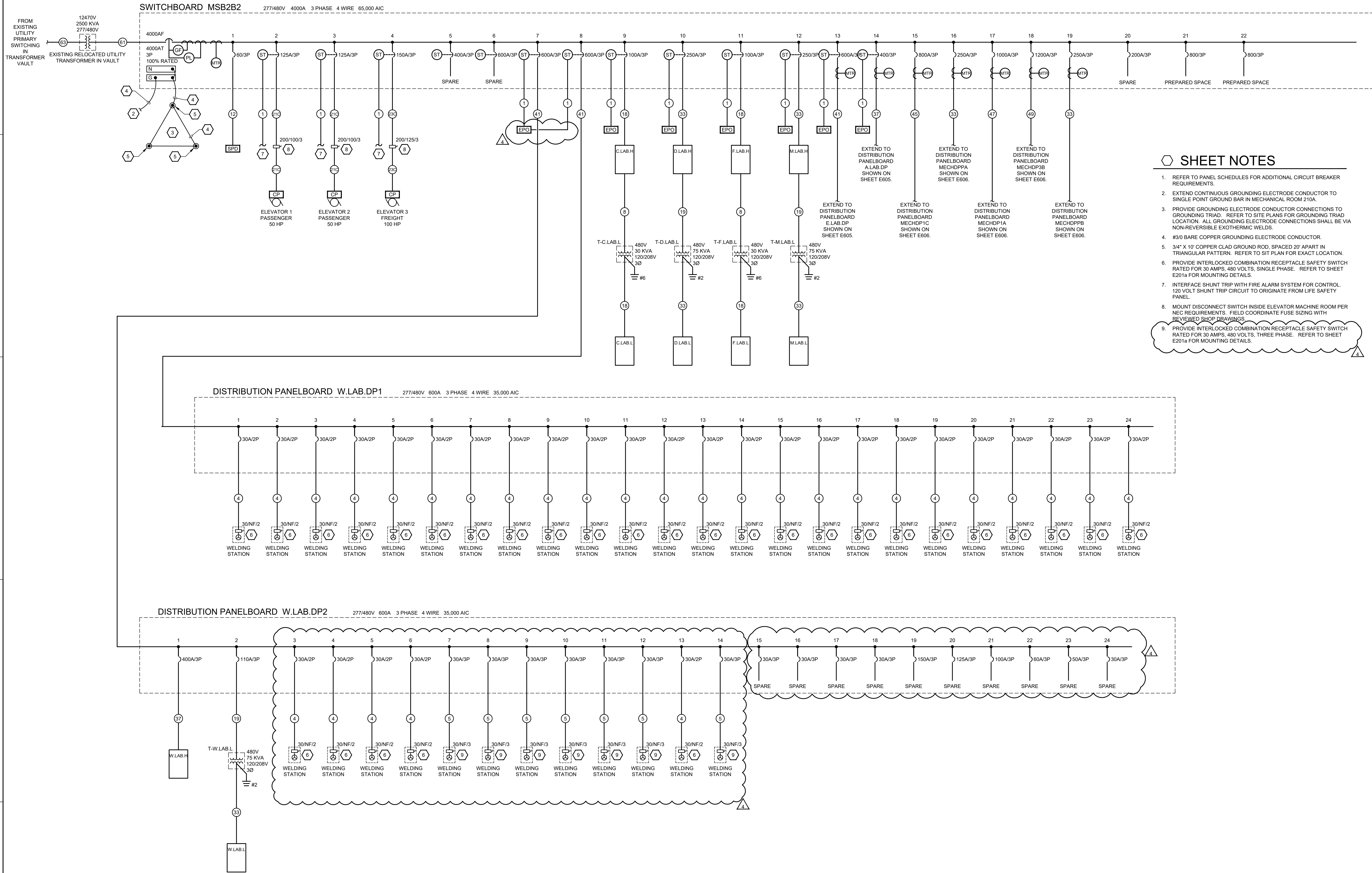
ELECTRICAL
PARTIAL ONE-LINE
DIAGRAM

ADD #4
10/28/2022

E603

ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES GENERAL NOTES:

A. REFER TO SHEETS E002 AND E600 FOR ADDITIONAL GENERAL NOTES.



- ### SHEET NOTES
- REFER TO PANEL SCHEDULES FOR ADDITIONAL CIRCUIT BREAKER REQUIREMENTS.
 - EXTEND CONTINUOUS GROUNDING ELECTRODE CONDUCTOR TO SINGLE POINT GROUND BAR IN MECHANICAL ROOM 210A
 - PROVIDE GROUNDING ELECTRODE CONDUCTOR CONNECTIONS TO GROUNDING TRIAD. REFER TO SITE PLANS FOR GROUNDING TRIAD LOCATION. ALL GROUNDING ELECTRODE CONNECTIONS SHALL BE VIA NON-REVERSIBLE EXOTHERMIC WELDS.
 - #30 BARE COPPER GROUNDING ELECTRODE CONDUCTOR.
 - 3/4" X 10' COPPER CLAD GROUND ROD, SPACED 20' APART IN TRIANGULAR PATTERN. REFER TO SIT PLAN FOR EXACT LOCATION.
 - PROVIDE INTERLOCKED COMBINATION RECEPTACLE SAFETY SWITCH RATED FOR 30 AMPS, 480 VOLTS, SINGLE PHASE. REFER TO SHEET E201a FOR MOUNTING DETAILS.
 - INTERFACE SHUNT TRIP WITH FIRE ALARM SYSTEM FOR CONTROL. 120 VOLT SHUNT TRIP CIRCUIT TO ORIGINATE FROM LIFE SAFETY PANEL.
 - MOUNT DISCONNECT SWITCH INSIDE ELEVATOR MACHINE ROOM PER NEC REQUIREMENTS. FIELD COORDINATE FUSE SIZING WITH REVIEWED SHOP DRAWINGS.
 - PROVIDE INTERLOCKED COMBINATION RECEPTACLE SAFETY SWITCH RATED FOR 30 AMPS, 480 VOLTS, THREE PHASE. REFER TO SHEET E201a FOR MOUNTING DETAILS.

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1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



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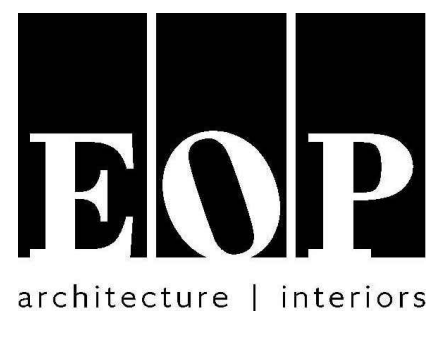
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Checked By RDB
Date 09/28/2022

PLAN TRUE



ELECTRICAL PARTIAL ONE-LINE DIAGRAM
ADD #4
10/28/2022
E604

REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
3	10/21/22 ADDENDUM 3
4	10/28/22 ADDENDUM 4



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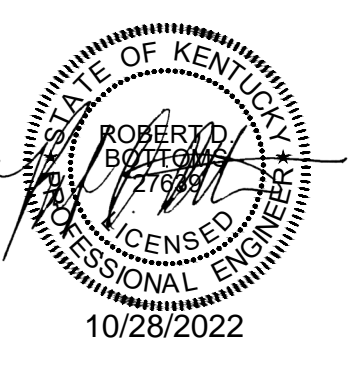
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Job Number 2150 PLAN
Drawn By JHS TRUE
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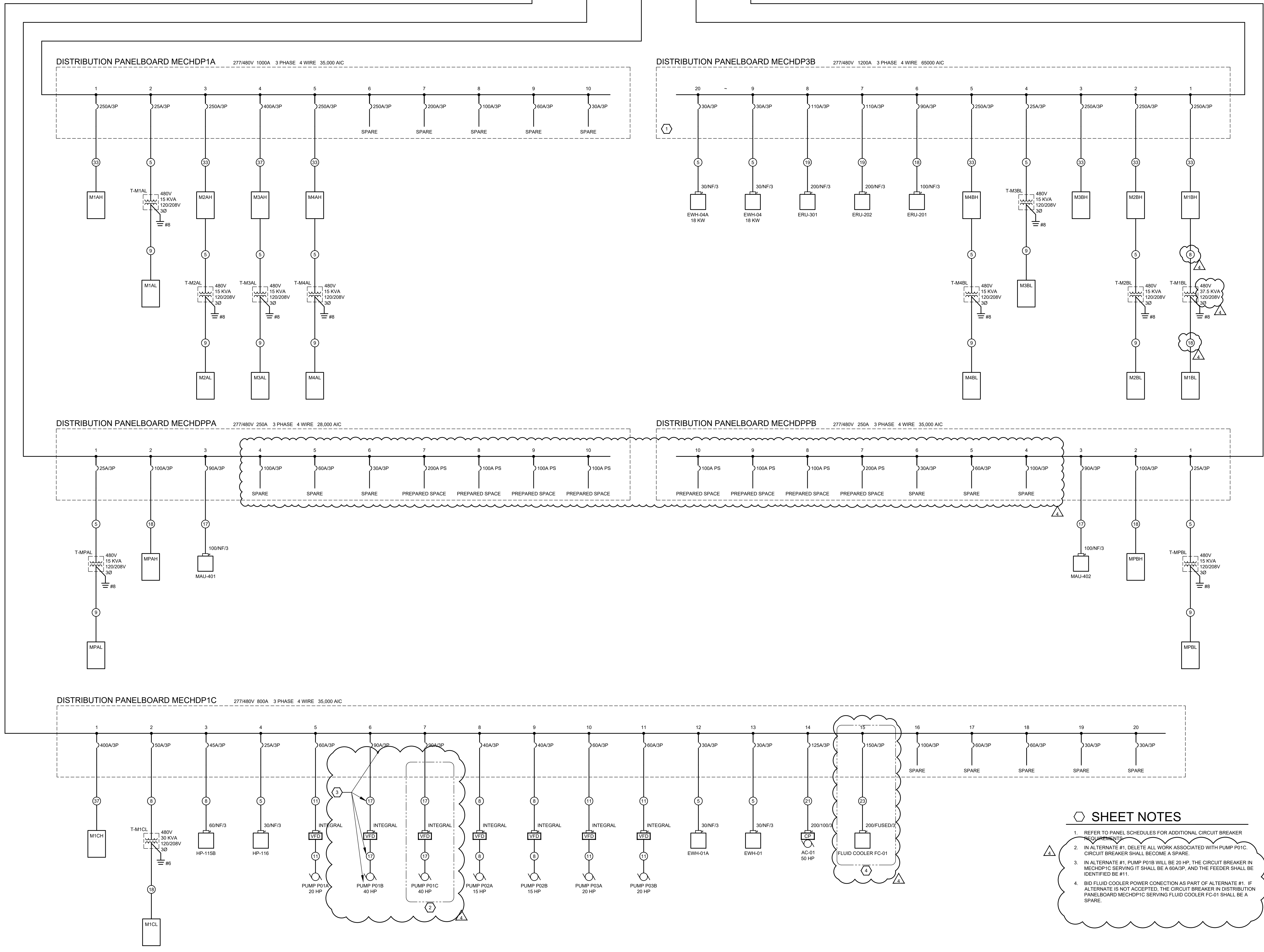
**ELECTRICAL
PARTIAL ONE-LINE
DIAGRAM**
ADD #4
10/28/2022

E606

**ELECTRICAL ONE-LINE DIAGRAM AND
PANEL SCHEDULES GENERAL NOTES:**

A. REFER TO SHEETS E002 AND E600 FOR ADDITIONAL GENERAL NOTES.

EXTEND FROM SWITCHBOARD MSB2B2 SHOWN ON SHEET E604.
EXTEND FROM SWITCHBOARD MSB2B2 SHOWN ON SHEET E604.
EXTEND FROM SWITCHBOARD MSB2B2 SHOWN ON SHEET E604.
EXTEND FROM SWITCHBOARD MSB2B2 SHOWN ON SHEET E604.
EXTEND FROM SWITCHBOARD MSB2B2 SHOWN ON SHEET E604.



SHEET NOTES

- REFER TO PANEL SCHEDULES FOR ADDITIONAL CIRCUIT BREAKER REQUIREMENTS.
- IN ALTERNATE #1, DELETE ALL WORK ASSOCIATED WITH PUMP P01C. CIRCUIT BREAKER SHALL BECOME A SPARE.
- IN ALTERNATE #1, PUMP P01B WILL BE 20 HP. THE CIRCUIT BREAKER IN MECHDP1C SERVING IT SHALL BE A 60A/3P, AND THE FEEDER SHALL BE IDENTIFIED BE #11.
- BID FLUID COOLER POWER CONNECTION AS PART OF ALTERNATE #1. IF ALTERNATE IS NOT ACCEPTED, THE CIRCUIT BREAKER IN DISTRIBUTION PANELBOARD MECHDP1C SERVING FLUID COOLER FC-01 SHALL BE A SPARE.

ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES GENERAL NOTES:

REFER TO SHEETS E002 AND E600 FOR ADDITIONAL GENERAL NOTES.

MAIN SWITCHBOARD MSB2B1 NORMAL POWER. Table with columns for VOLTAGE, AMP FRAME, AMP TRIP, PHASE/WIRE, NO. POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, and LOAD SERVED. Includes notes and abbreviations.

MAIN SWITCHBOARD MSB2B2 NORMAL POWER. Table with columns for VOLTAGE, AMP FRAME, AMP TRIP, PHASE/WIRE, NO. POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, and LOAD SERVED. Includes notes and abbreviations.

SWITCHBOARD KSWB NORMAL POWER. Table with columns for VOLTAGE, AMP FRAME, AMP TRIP, PHASE/WIRE, NO. POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, and LOAD SERVED. Includes notes and abbreviations.

SWITCHBOARDS

DISTRIBUTION PANELBOARD MECHDP1A NORMAL POWER. Table with columns for VOLTAGE, AMP FRAME, AMP TRIP, PHASE/WIRE, NO. POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, and LOAD SERVED. Includes notes and abbreviations.

DISTRIBUTION PANELBOARD MECHDP1B NORMAL POWER. Table with columns for VOLTAGE, AMP FRAME, AMP TRIP, PHASE/WIRE, NO. POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, and LOAD SERVED. Includes notes and abbreviations.

DISTRIBUTION PANELBOARD MECHDP3B NORMAL POWER. Table with columns for VOLTAGE, AMP FRAME, AMP TRIP, PHASE/WIRE, NO. POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, and LOAD SERVED. Includes notes and abbreviations.

DISTRIBUTION PANELBOARD MECHDP3B NORMAL POWER. Table with columns for VOLTAGE, AMP FRAME, AMP TRIP, PHASE/WIRE, NO. POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, and LOAD SERVED. Includes notes and abbreviations.

DISTRIBUTION PANELBOARD MECHDP1C NORMAL POWER. Table with columns for VOLTAGE, AMP FRAME, AMP TRIP, PHASE/WIRE, NO. POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, and LOAD SERVED. Includes notes and abbreviations.

MECHANICAL EQUIPMENT DISTRIBUTION PANELBOARDS

DISTRIBUTION PANELBOARD A.LAB.DP NORMAL POWER. Table with columns for VOLTAGE, AMP FRAME, AMP TRIP, PHASE/WIRE, NO. POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, and LOAD SERVED. Includes notes and abbreviations.

PANEL A.LAB.H NORMAL POWER. Table with columns for VOLTAGE, PHASE, WIRES, POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, MOUNTING SURFACE, and BREAKER POLE. Includes notes and abbreviations.

PANEL A.LAB.L NORMAL POWER. Table with columns for VOLTAGE, PHASE, WIRES, POLES, MAIN AMPS, MAIN TYPE, A.I. RATING, MOUNTING SURFACE, and BREAKER POLE. Includes notes and abbreviations.

NEW COMBINED CTE SCHOOL BG# 22-167

100 Midland Ave, Lexington, KY 40508

BID DOCUMENTS table with columns for #, DATE, and DESCRIPTION.



PROJECT TEAM: EOP Architects, 201 W. Short Street, Suite 700, Lexington, KY 40507



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Calvert - Independent Hardware Specifications, LLC, 307 Oakwood Circle, Vine Grove, KY 40175

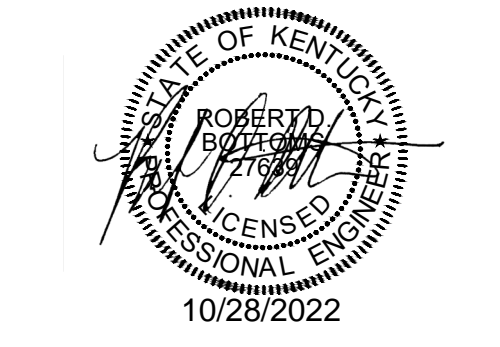
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Job Number 2150, Drawn By JHS, Checked By RDB, Date 09/28/2022



ELECTRICAL PANEL SCHEDULES

ADD # 10/28/2022

E608

NEW COMBINED CTE SCHOOL BG# 22-167

ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES GENERAL NOTES:

A. REFER TO SHEETS E602 AND E600 FOR ADDITIONAL GENERAL NOTES.

BID DOCUMENTS

Table with 2 columns: REVISIONS (No., Description), 4 rows of revisions.

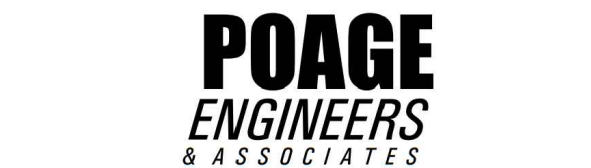


PROJECT TEAM

EOP Architects 201 W. Short Street, Suite 700 Lexington, KY 40507 p. 859-231-7538 | f. 859-255-4380 www.eopa.com



Element Design, PLLC. 366 S. Broadway Lexington, KY 40508



Poage Engineers & Associates Inc Structural Engineers 880 Sparta Ct. Ste. 200 Lexington, KY 40504



Shrout Tate Wilson Consulting Engineers MEP Engineers 628 Winchester Rd. Lexington, KY 40505



Reitano Design Group 302 N. East Street, Studio One Indianapolis, IN 46202



Calvert - Independent Hardware Specifications, LLC. 307 Oakwood Circle Vine Grove, KY 40175

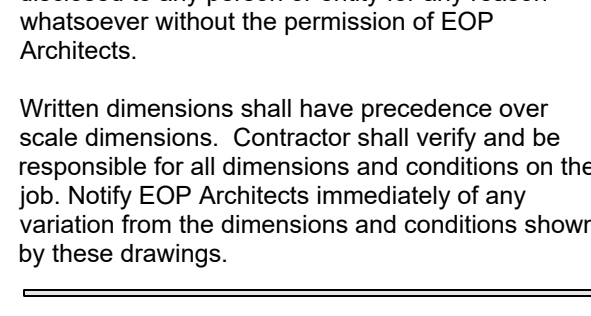
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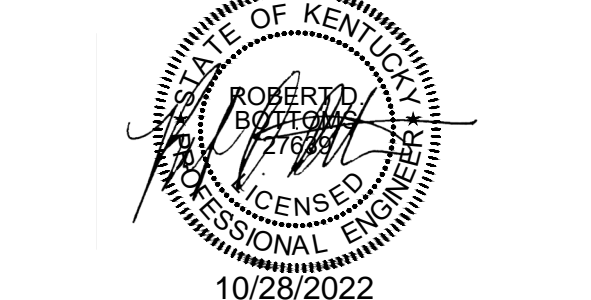
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Job Number 2150 Drawn By JHS Checked By RDB Date 09/28/2022



Job Number 2150 Drawn By JHS Checked By RDB Date 09/28/2022

MECHANICAL SCHEDULES - MECHANICAL E612



Job Number 2150 Drawn By JHS Checked By RDB Date 09/28/2022

ELECTRICAL PANEL SCHEDULES - MECHANICAL E612

E612

PANEL M2AH NORMAL POWER BRANCH CIRCUIT PANELBOARD. Table with columns: VOLTAGE, 3 PHASE, POLES, MAIN AMPS, MAIN TYPE, A. I. RATINGS, MOUNTING SURFACE. Includes equipment list and totals.

PANEL M1CH NORMAL POWER BRANCH CIRCUIT PANELBOARD. Table with columns: VOLTAGE, 3 PHASE, POLES, MAIN AMPS, MAIN TYPE, A. I. RATINGS, MOUNTING SURFACE. Includes equipment list and totals.

PANEL M1BH NORMAL POWER BRANCH CIRCUIT PANELBOARD. Table with columns: VOLTAGE, 3 PHASE, POLES, MAIN AMPS, MAIN TYPE, A. I. RATINGS, MOUNTING SURFACE. Includes equipment list and totals.

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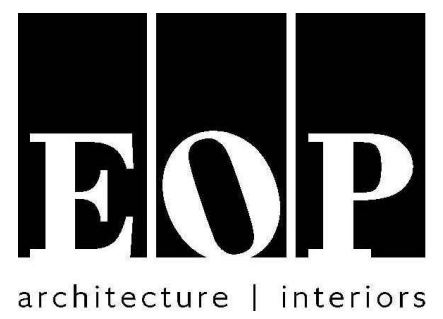
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11/15/2021 6:39:23 AM

Table with 2 columns: #, DATE, DESCRIPTION. Includes Addendum 1, 2, and 3.



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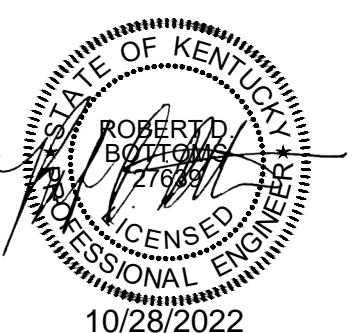
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Job Number 2150
Drawn By JHS
Checked By RDB
Date 09/28/2022



ELECTRICAL PANEL SCHEDULES - MECHANICAL
ADD # 10/28/2022

E613

ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES

GENERAL NOTES:

REFER TO SHEETS E002 AND E600 FOR ADDITIONAL GENERAL NOTES.

PANEL M1AL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

PANEL M2AL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

PANEL M4AL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

PANEL M1BL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

PANEL M2BL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

PANEL M4BL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

PANEL M1CL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

PANEL M3AL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

PANEL MPAL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

PANEL M3BL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

PANEL MPBL NORMAL POWER table with columns for Voltage, Phase, Poles, Main Amps, Main Type, A.I. Rating, Mounting, Pole No., Breaker, Trip, P, Load Served, KVA, A, B, C, KVA, Load Served, Breaker, Pole No.

DISTRIBUTION PANEL ESDP1A EMERGENCY STANDBY POWER. Includes tables for BRANCH CIRCUIT PANELBOARD, PHASE LOADS, and MAIN AMPS. Notes: G - GFCI, A - AFCI, L - LOCKOUT, S - SHUNT TRIP, C - COMBINATION GFCI/AFCI, E - ELECTRONIC ADJUSTABLE TRIP, MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY.

DISTRIBUTION PANEL ESDP2B EMERGENCY STANDBY POWER. Includes tables for BRANCH CIRCUIT PANELBOARD, PHASE LOADS, and MAIN AMPS. Notes: G - GFCI, A - AFCI, L - LOCKOUT, S - SHUNT TRIP, C - COMBINATION GFCI/AFCI, E - ELECTRONIC ADJUSTABLE TRIP, MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY.

PANEL ESK EMERGENCY STANDBY POWER. Includes tables for BRANCH CIRCUIT PANELBOARD, PHASE LOADS, and MAIN AMPS. Notes: G - GFCI, A - AFCI, L - LOCKOUT, S - SHUNT TRIP, C - COMBINATION GFCI/AFCI, E - ELECTRONIC ADJUSTABLE TRIP, MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY.

PANEL ES1AH EMERGENCY STANDBY POWER. Includes tables for BRANCH CIRCUIT PANELBOARD, PHASE LOADS, and MAIN AMPS. Notes: G - GFCI, A - AFCI, L - LOCKOUT, S - SHUNT TRIP, C - COMBINATION GFCI/AFCI, E - ELECTRONIC ADJUSTABLE TRIP, MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY.

PANEL ES1BH EMERGENCY STANDBY POWER. Includes tables for BRANCH CIRCUIT PANELBOARD, PHASE LOADS, and MAIN AMPS. Notes: G - GFCI, A - AFCI, L - LOCKOUT, S - SHUNT TRIP, C - COMBINATION GFCI/AFCI, E - ELECTRONIC ADJUSTABLE TRIP, MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY.

PANEL ES2AH EMERGENCY STANDBY POWER. Includes tables for BRANCH CIRCUIT PANELBOARD, PHASE LOADS, and MAIN AMPS. Notes: G - GFCI, A - AFCI, L - LOCKOUT, S - SHUNT TRIP, C - COMBINATION GFCI/AFCI, E - ELECTRONIC ADJUSTABLE TRIP, MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY.

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PANEL ES4AH EMERGENCY STANDBY POWER. Includes tables for BRANCH CIRCUIT PANELBOARD, PHASE LOADS, and MAIN AMPS. Notes: G - GFCI, A - AFCI, L - LOCKOUT, S - SHUNT TRIP, C - COMBINATION GFCI/AFCI, E - ELECTRONIC ADJUSTABLE TRIP, MCB - MAIN CIRCUIT BREAKER, MLO - MAIN LUG ONLY.

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EMERGENCY STANDBY DISTRIBUTION EQUIPMENT

ELECTRICAL ONE-LINE DIAGRAM AND PANEL SCHEDULES GENERAL NOTES:

A. REFER TO SHEETS E600 AND E601 FOR ADDITIONAL GENERAL NOTES.

NEW COMBINED CTE SCHOOL

BG# 22-167
100 Midland Ave, Lexington, KY 40508

BID DOCUMENTS

REVISIONS	
#	DATE
1	10/14/22
2	10/21/22
3	10/21/22
4	10/28/22

DESCRIPTION
ADDENDUM 1
ADDENDUM 3
ADDENDUM 4

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ShROUT Tate Wilson Consulting Engineers
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Drawn By JHS
Checked By RDB
Date 09/28/2022

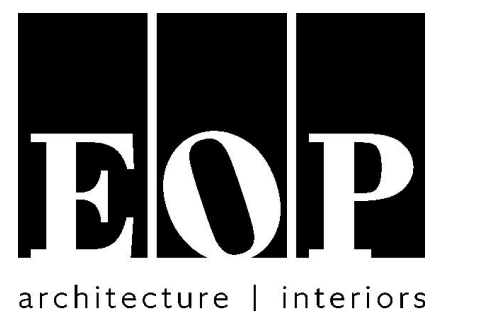
STATE OF KENTUCKY
PROFESSIONAL ENGINEERING BOARD
10/28/2022

ELECTRICAL PANEL SCHEDULES

E620

11/16/2021 6:29:23 AM

REVISIONS	
#	DESCRIPTION
4	10/28/2022 ADDENDUM #4



PROJECT TEAM

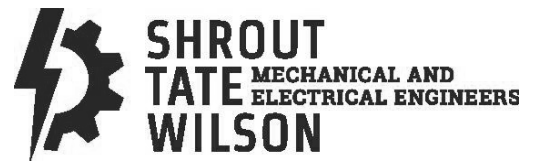
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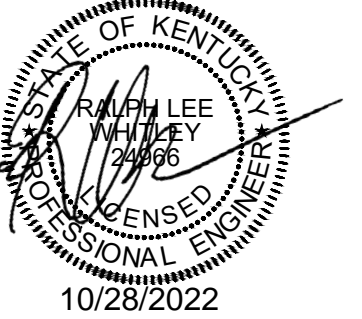
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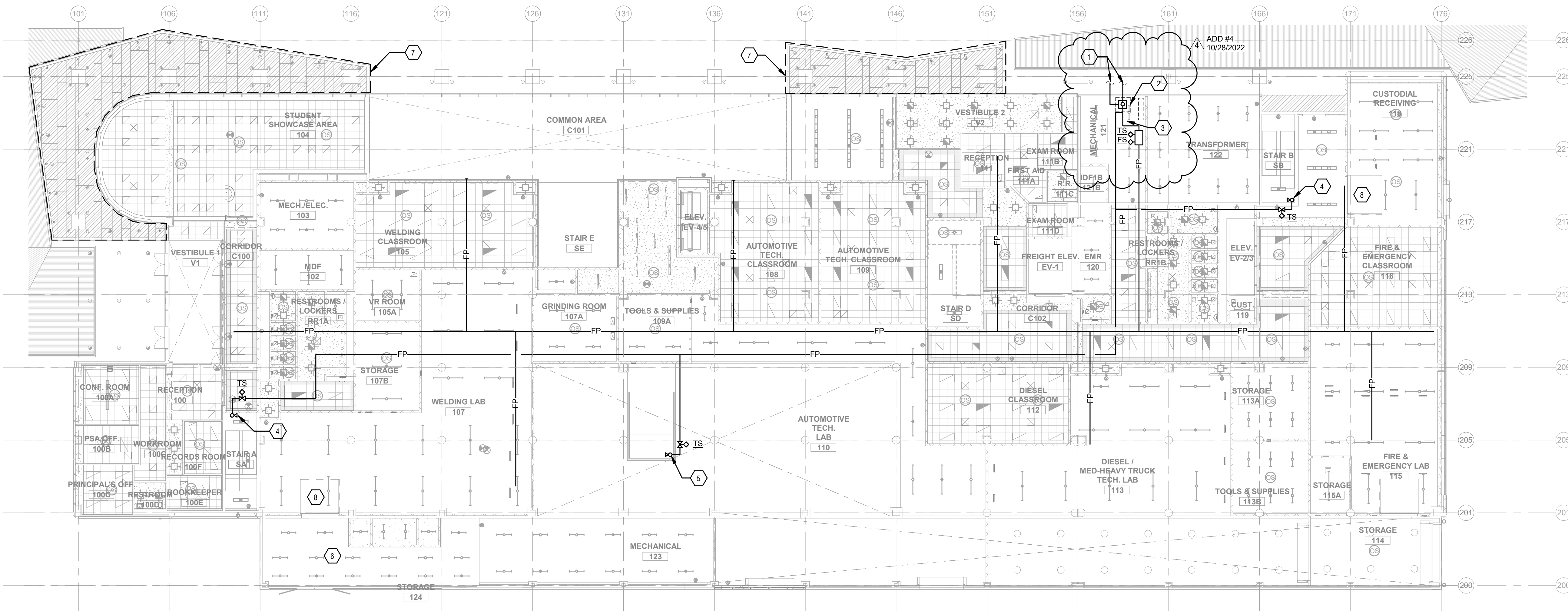
Job Number 2150
Drawn By CS / JC
Checked By RLW
Date 09/28/2022



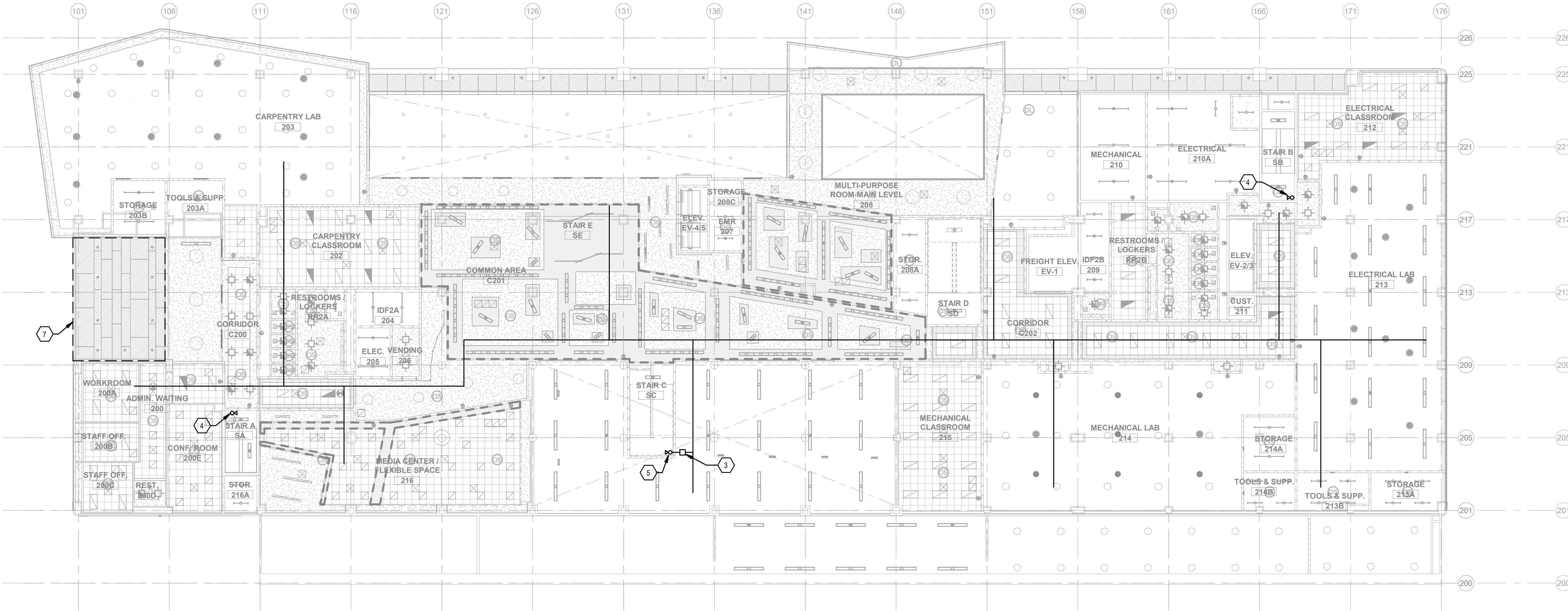
**OVERALL FLOOR
PLANS - FIRE
PROTECTION**

ADD #4
10/28/2022

FP100a



1 OVERALL FIRST FLOOR PLAN - FIRE PROTECTION
SCALE: 1/16" = 1'-0"



2 OVERALL SECOND FLOOR PLAN - FIRE PROTECTION
SCALE: 1/16" = 1'-0"

GENERAL NOTES

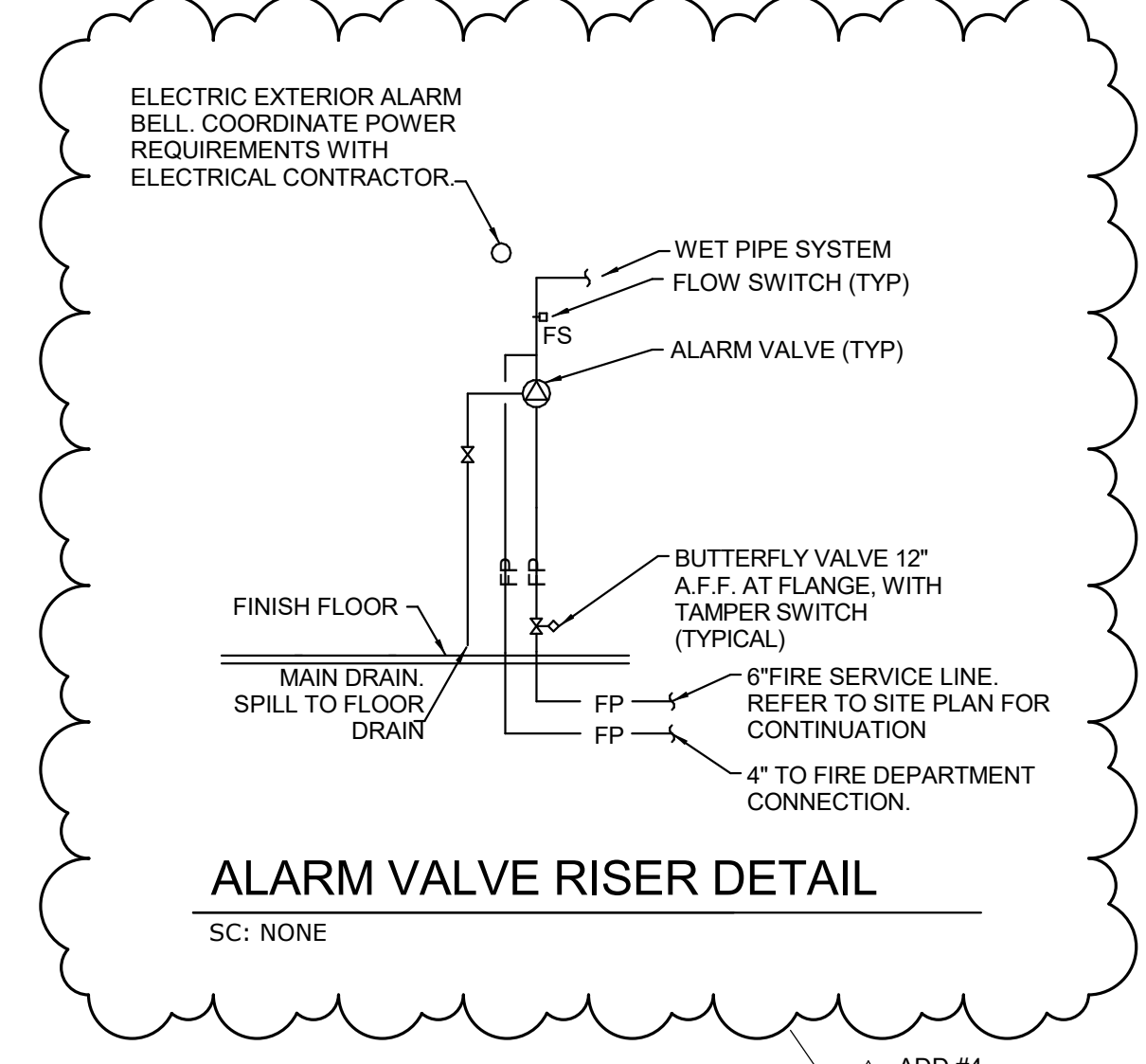
- REFER TO DRAWING P001 FOR PLUMBING GENERAL NOTES.
 - SPRINKLE ABOVE AND BELOW ALL CLOUDS PER NFPA13. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING INFORMATION.
- SHEET KEYNOTES**
- REFER TO CIVIL SITE UTILITIES DRAWINGS FOR CONTINUATION.
 - NEW FP ALARM VALVE/RISER. REFER TO DETAIL ON THIS SHEET.
 - FLOOR ZONE CONTROL ASSEMBLY PER NFPA.
 - STAND PIPE WITH 1-1/2" HOSE VALVE CONNECTION. INSTALL VALVE 42" AFF TO CENTERLINE.
 - COMBINATION STANDPIPE/RISER WITH 1-1/2" HOSE VALVE CONNECTION. INSTALL VALVE 42" A.F.F. TO CENTERLINE.
 - PROVIDE DRY SIDEWALL HEADS TO SPRINKLE UNCONDITIONED SPACE.
 - SPRINKLE OVERHANG PER NFPA. ALL SPRINKLER PIPING IN OVERHANG PLENUM SHALL BE PROVIDED WITH APPROVED HEAT TRACE.
 - SPRINKLE OVERHEAD DOOR PER NFPA, TYPICAL.

FLOW TEST

STATIC PRESSURE	72.3 PSI
RESIDUAL PRESSURE	62.3 PSI
FLOW	2,430 GPM
DATE	03.15.2022

FLOW TEST RESULTS PROVIDED BY: KAWC

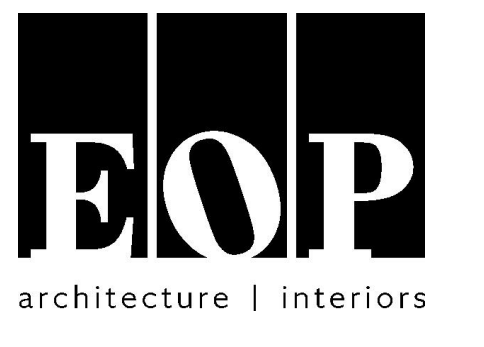
THE FIRE SUPPRESSION CONTRACTOR SHALL CONDUCT HIS OWN FLOW TEST FOR USE IN SHOP DRAWING / HYDRAULIC CALCULATIONS. THE TEST SHALL BE FULLY COORDINATED WITH THE OWNER, UTILITY COMPANY AND WITNESSED BY THE ARCHITECT/ENGINEER.



CONTACT INFORMATION

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REVISIONS		
#	DATE	DESCRIPTION
4	10/28/2022	ADDENDUM #4



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Vine Grove, KY 40175

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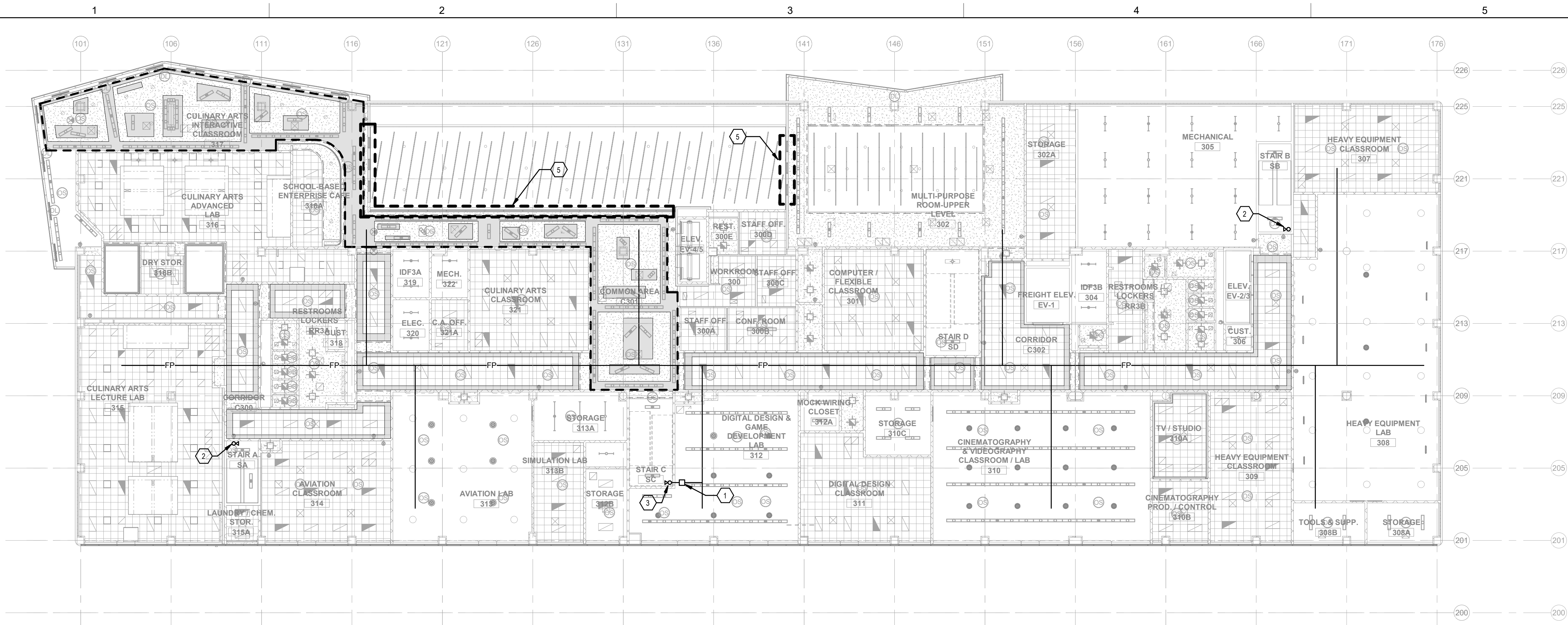
Written dimensions shall have precedence over scale dimensions. Contractor shall verify and be responsible for all dimensions and conditions on the job. Notify EOP Architects immediately of any variation from the dimensions and conditions shown by these drawings.

Job Number 2150
Drawn By CS / JC
Checked By RLV
Date 09/28/2022

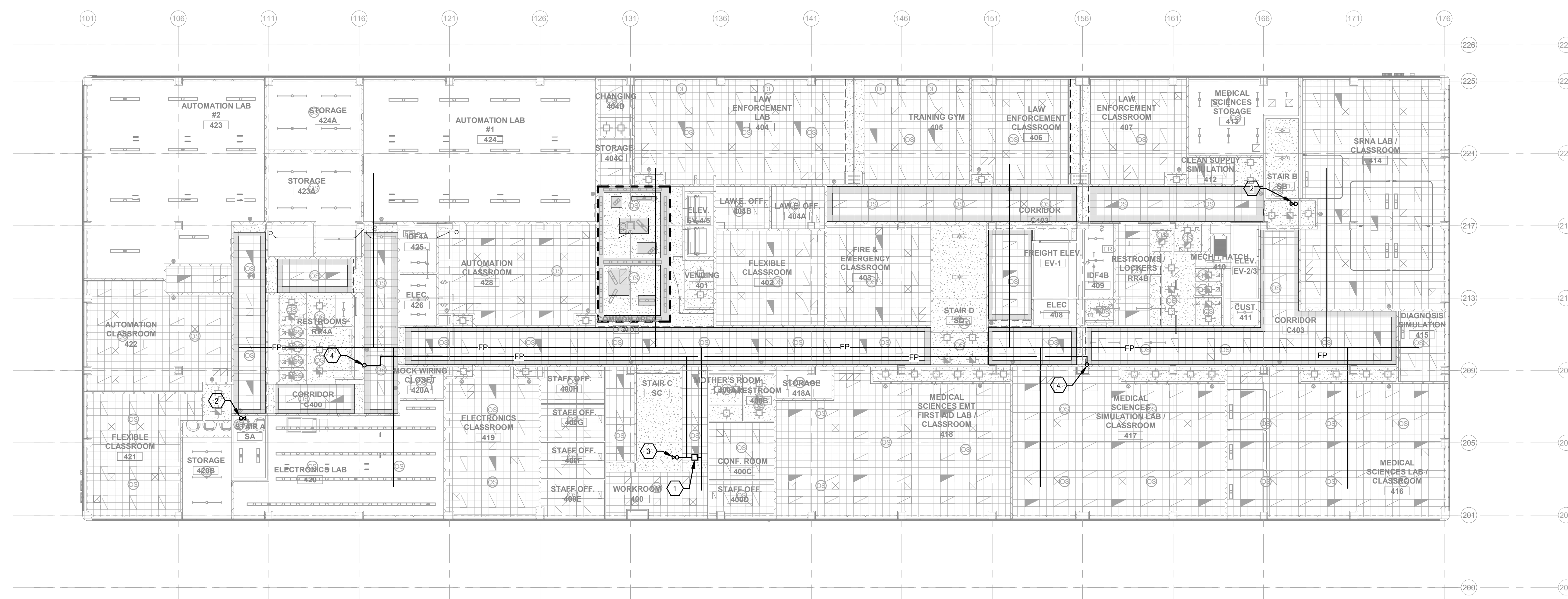


OVERALL FLOOR PLANS - FIRE PROTECTION

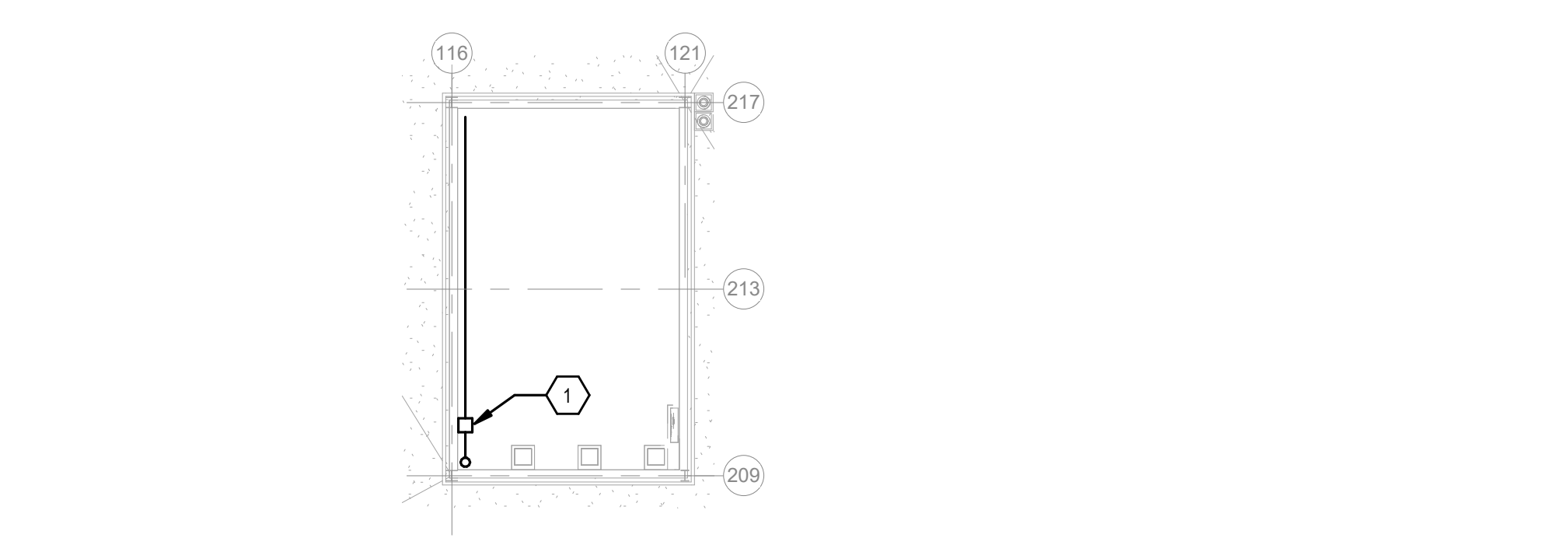
ADD #4 10/28/2022
FP100b



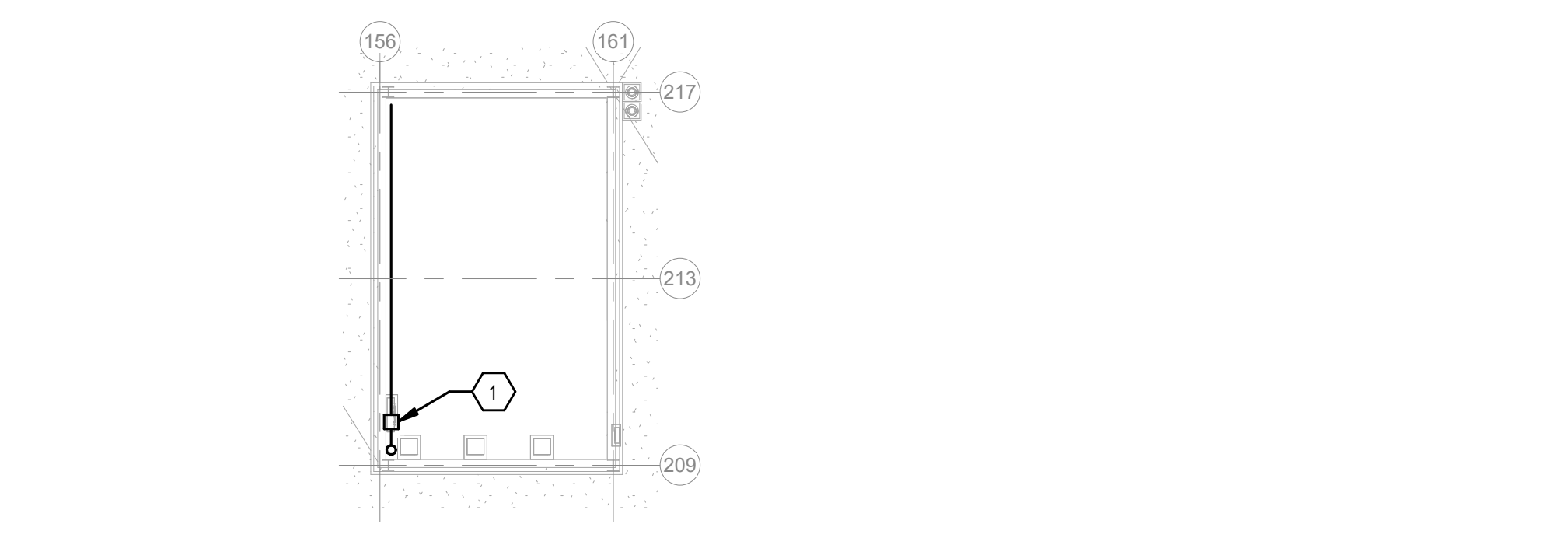
1 OVERALL THIRD FLOOR PLAN - FIRE PROTECTION
SCALE: 1/16" = 1'-0"



2 OVERALL FOURTH FLOOR PLAN - FIRE PROTECTION
SCALE: 1/16" = 1'-0"



4 ENLARGED MECHANICAL PENTHOUSE - WEST - FIRE PROTECTION
SCALE: 1/16" = 1'-0"



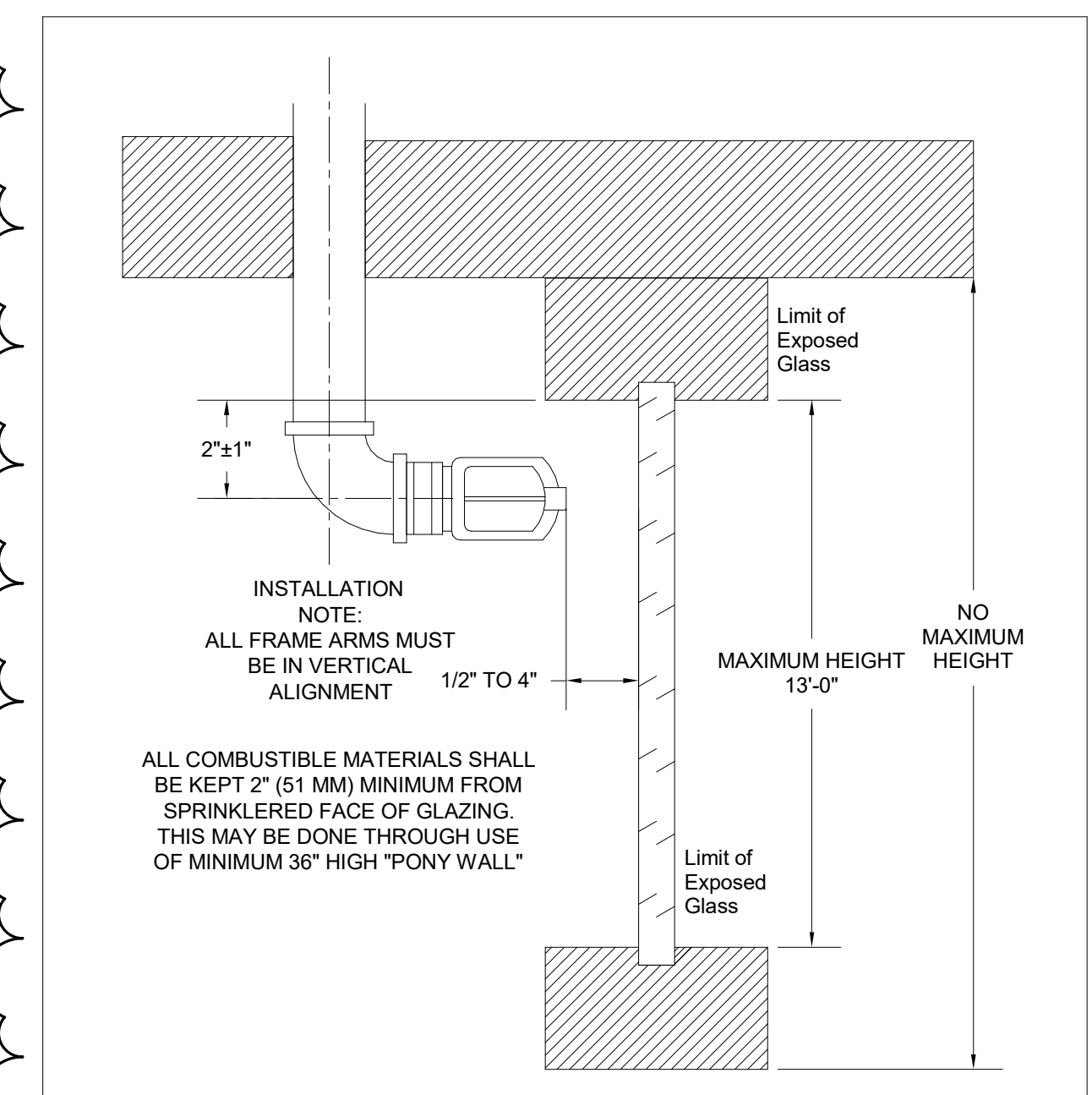
3 ENLARGED MECHANICAL PENTHOUSE - EAST - FIRE PROTECTION
SCALE: 1/16" = 1'-0"

GENERAL NOTES

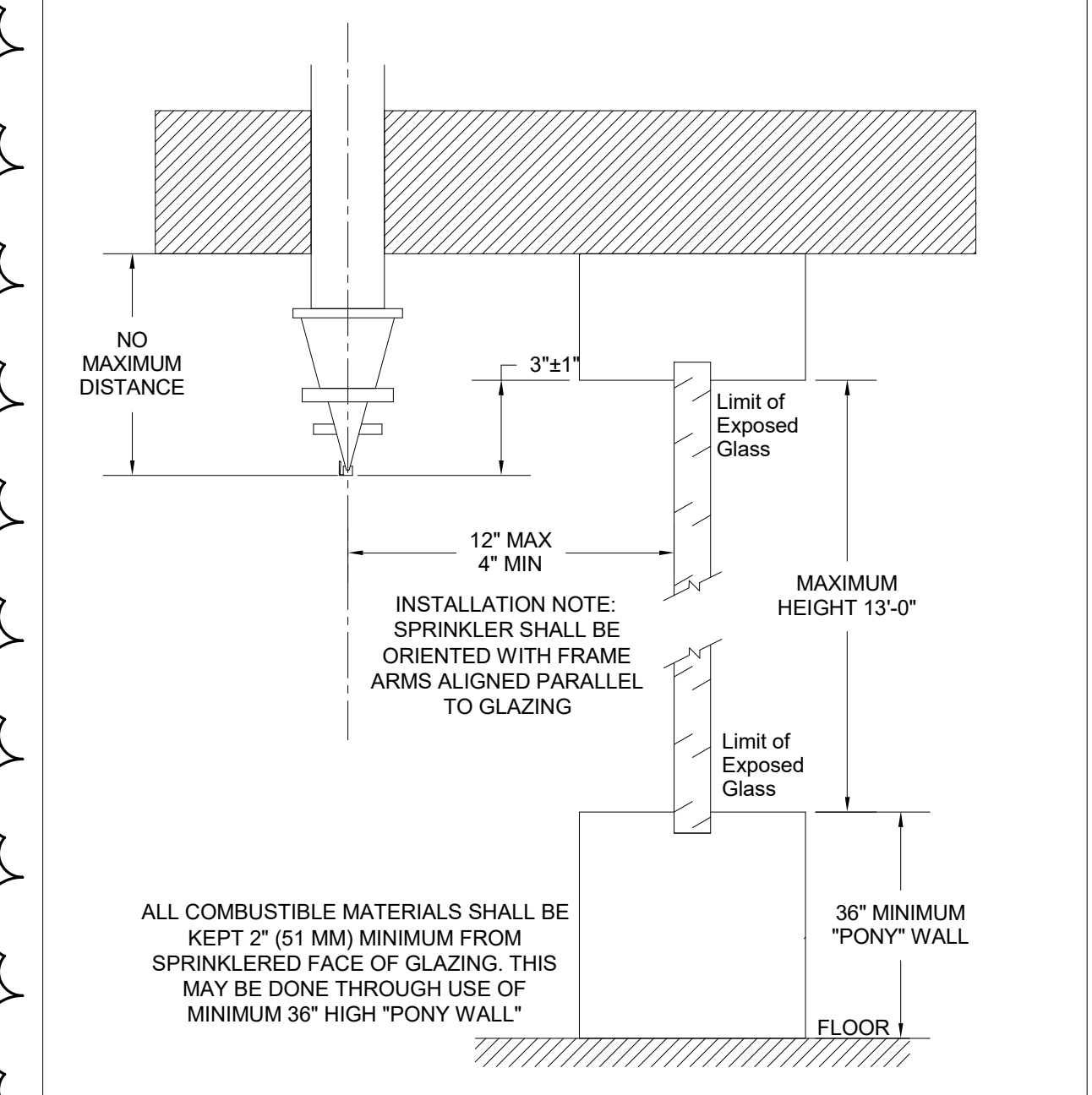
- A. REFER TO DRAWING P001 FOR PLUMBING GENERAL NOTES.
- B. SPRINKLER ABOVE AND BELOW ALL CLOUDS PER NFPA13. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING INFORMATION.

SHEET KEYNOTES

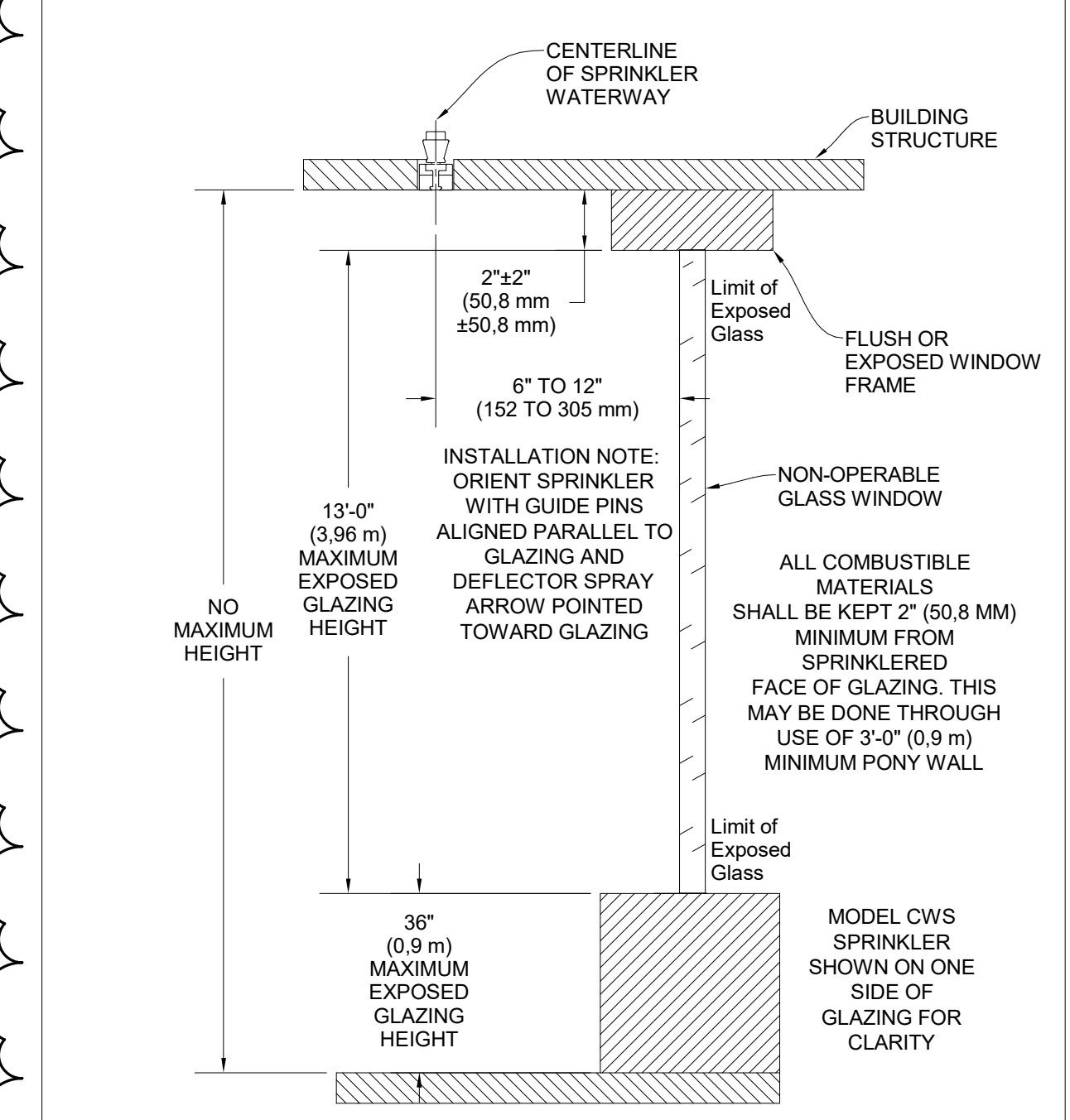
- 1. FLOOR ZONE CONTROL ASSEMBLY PER NFPA.
- 2. STAND PIPE WITH 1-1/2" HOSE VALVE CONNECTION. INSTALL VALVE 42" AFF TO CENTER LINE.
- 3. COMBINATION STANDPIPE/SISER WITH 1-1/2" HOSE VALVE CONNECTION. INSTALL VALVE 42" A.F.F. TO CENTERLINE.
- 4. ROUTE FIRE PROTECTION UP TO MECHANICAL PENTHOUSE.
- 5. PROVIDE SPRINKLER PROTECTION ON BOTH SIDES OF GLASS WALL. COVERAGE SHALL MEET THE REQUIREMENTS OF ICC ESR-2397, LATEST REVISION OR EQUAL. REFER TO DETAIL 5, FIRE PROTECTION DETAILS, THIS SHEET.



HORIZONTAL SIDEWALL SPRINKLER INSTALLATION



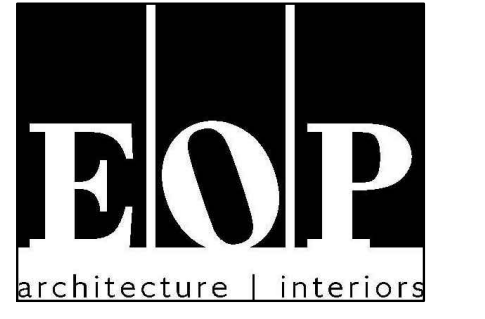
PENDENT VERTICAL SIDEWALL SPRINKLER INSTALLATION



CONCEALED PENDENT VERTICAL SIDEWALL SPRINKLER INSTALLATION

5 FIRE PROTECTION DETAILS
SCALE: NO SCALE

REVISIONS	
#	DESCRIPTION
4	Revision 4



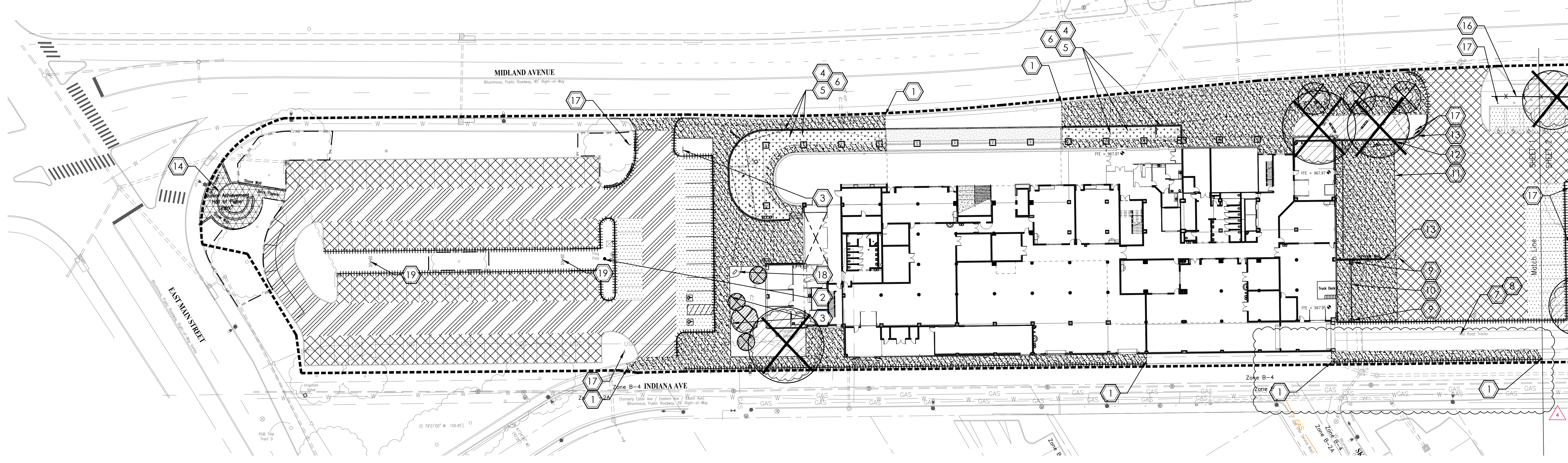
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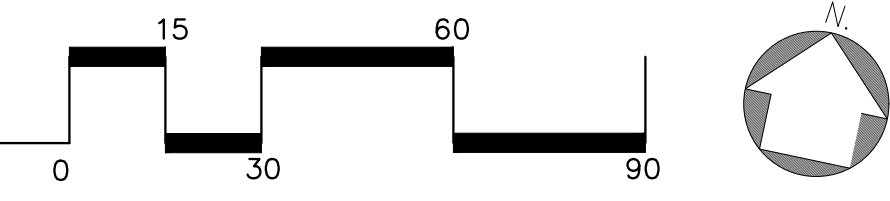
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Lexington, KY 40508



FCPS CTE - WEST - SITE DEMOLITION PLAN

SCALE 1" = 30'-0"



SITE DEMOLITION NOTES:

- A. THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED BY ENDRIS ENGINEERING. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON. CONTRACTOR TO VERIFY ALL INFORMATION SHOWN; THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO UTILITIES SHOWN ON THE SURVEY.
- B. THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF EXISTING AND PROPOSED UTILITY LINES. THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION; THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS.
- C. SAWCUT EDGES OF EXISTING PAVEMENT WHERE NEW PAVEMENT ABUTS AND / OR EXISTING PAVEMENT IS INDICATED TO BE REMOVED.
- D. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- E. REFER TO ADDITIONAL SHEETS FOR INFORMATION AND REQUIREMENTS.
- F. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TREE PROTECTION FENCING WHERE INDICATED AND FOR ALL EXISTING TREES WITHIN THE LIMITS OF THE CONSTRUCTION FENCING. TREE PROTECTION FENCING SHALL BE CONSTRUCTED OF SAFETY FENCE WITH STEEL T SECTION FENCE POSTS SPACED AT 6' MAXIMUM; LIMIT OF FENCE TO ALIGN WITH CANOPY / DRIP EDGE OF TREES TO AVOID DAMAGE TO EXISTING TREES DURING CONSTRUCTION.
- G. UNLESS OTHERWISE INDICATED TO BE REMOVED, ALL ITEMS ARE TO REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGES TO OFF OR ON SITE PROPERTY THAT IS NOT LISTED TO BE REMOVED AT NOT ADDITIONAL COST TO THE OWNER.
- H. THE CONTRACTOR SHALL MAINTAIN STORM DRAINAGE SYSTEMS TO FUNCTION THROUGHOUT THE CONSTRUCTION PERIOD.
- I. SEE ESC DRAWING FOR STORM WATER POLLUTION PREVENTION.
- J. THE CONTRACTOR SHALL PROVIDE ACCESS AND A SAFE ROUTE TO THE SOCCER FIELDS AND CENTENARY PROPERTY THROUGHOUT THE DURATION OF THE PROJECT.
- K. CONTRACTOR SHALL JET ALL STORM LINES WITHIN THE SITE TO REMOVE ALL SEDIMENTATION. LINES SHALL BE CAMERA INSPECTED AND A REPORT GENERATED. REPORT AND VIDEO INSPECTION SHALL BE PROVIDED TO OWNER AND ENGINEER. REPORT SHALL INCLUDE CONDITION ANALYSIS OF PIPES, DOCUMENTATION OF ALL CONNECTIONS, DEPTH OF LINES AND LOCATION WITH SCALED SITE MAP. ALL EXCAVATION/EXPLORATION FOR THE COMPLETION OF REPORT SHALL BE INCIDENTAL. THIS WORK SHALL BE COMPLETED PRIOR TO THE ORDERING OF MATERIAL OR INSTALLATION OF LINES AND STRUCTURES.

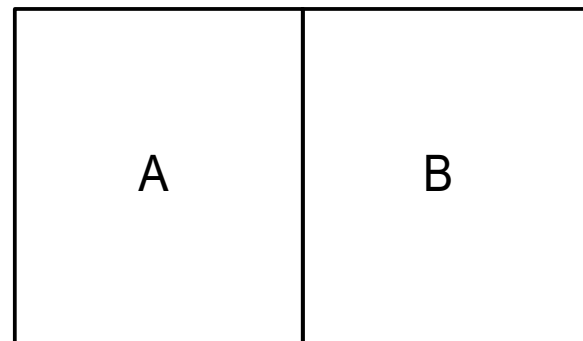
DEMOLITION KEYNOTES

1. SAWCUT EXISTING PAVEMENT WHERE NEW PAVEMENT WILL ABUT.
2. REMOVE EXISTING FLAG POLE, FOOTING, AND ACCENT LIGHTS.
3. REMOVE EXISTING SIGN.
4. EXISTING RETAINING WALL TO BE SAWCUT AND REMOVED. COORDINATE WITH ARCHITECTURAL DEMOLITION DRAWINGS.
5. EXISTING HEDGE TO BE REMOVED IN ITS ENTIRETY.
6. EXISTING IRRIGATION SYSTEM TO BE REMOVED WITHIN RAISED PLANTER.
7. FORMER LOCATION OF RAILROAD TRACKS (HAVE BEEN REMOVED BY OTHERS).
8. REMOVE FORMER RAILROAD TIES.
9. EXISTING STORM STRUCTURE TO BE REMOVED AND LEGALLY DISPOSED OF OFFSITE.
10. EXISTING STORM LINE / TRENCH DRAIN TO BE REMOVED AND LEGALLY DISPOSED OF OFFSITE.
11. EXISTING STORM LINE / PORTION OF SLOT DRAIN TO BE REMOVED AND LEGALLY DISPOSED OF OFFSITE. SEE L300A AND L300B FOR LOCATION OF NEW STORM STRUCTURE TO CONNECT TO EXISTING SLOT DRAIN.
12. EXISTING STORM STRUCTURE TO BE REMOVED. CAP CONNECTION TO EXISTING LINE. LINE TO REMAIN FUNCTIONAL THROUGHOUT CONSTRUCTION.
13. EXISTING RETAINING WALL/LOADING DOCK WALL TO BE REMOVED AND LEGALLY DISPOSED OF OFFSITE.
14. EXISTING JUNIOR ACHIEVEMENT PARK - STONE VENEER WALL, MONUMENT AND PAVERS TO BE REMOVED BY OTHERS PRIOR TO COMMENCEMENT OF WORK. ANY REMAINING CMU BACK UP AND CONCRETE PAVEMENT TO BE REMOVED AS PART OF CONTRACT.
15. **BASE BID** - REMOVE ASPHALT FOR INSTALLATION OF GEOTHERMAL WELLS AND REPLACE WITH FULL PAVEMENT SECTION AS INDICATED ON L401A & B. **DEDUCTIVE ALTERNATE** - EXISTING ASPHALT PAVEMENT TO BE MILLED AND RESURFACED WITH 1.5" OVERLAY.
16. EXISTING CHAINLINK FENCE TO BE REMOVED IN ITS ENTIRETY AND LEGALLY DISPOSED OF OFFSITE.
17. EXISTING SIGN TO BE REMOVED AND LEGALLY DISPOSED OF OFFSITE.
18. REMOVE EXISTING BENCH AND LEGALLY DISPOSE OF OFFSITE.
19. EXISTING EXTERIOR SITE LIGHTING TO BE REMOVED. REFER TO MEP PLANS.

DEMOLITION LEGEND

- BASE BID**: EXISTING ASPHALT TO BE REMOVED AS PART OF BASE BID GEOTHERMAL WELLS.
ALTERNATE #1: EXISTING ASPHALT PAVEMENT TO BE MILLED AND RESURFACED.
ALTERNATE #2: EXISTING ASPHALT PAVEMENT TO BE REMOVED- FULL PAVEMENT SECTION AND SHALL BE REPLACED WITH PERMEABLE PAVERS AS INDICATED ON SITE MATERIALS PLAN L401
- EXISTING ASPHALT PAVEMENT TO BE REMOVED- FULL PAVEMENT SECTION AND SHALL BE REPLACED AS INDICATED ON SITE MATERIALS PLAN L401
- BASE BID**: EXISTING ASPHALT TO BE REMOVED AS PART OF BASE BID GEOTHERMAL WELLS.
ALTERNATE #1: EXISTING ASPHALT PAVEMENT TO BE MILLED AND RESURFACED AS PART OF BOILER/COOLING TOWER
- EXISTING EVERGREEN HEDGE TO BE REMOVED IN ITS ENTIRETY
- REMOVE CONCRETE PAVEMENT TO SUBGRADE
- EXISTING JUNIOR ACHIEVEMENT PARK WALL, MONUMENT AND PAVERS TO BE REMOVED PRIOR TO COMMENCEMENT OF WORK BY OTHERS.
- EXISTING TREES) AND SHRUBS TO BE REMOVED- REMOVE TREE, STUMP AND ROOTS. CLEAR ALL VEGETATION ALL THE WAY TO THE ROW OF WAY FENCE WITHIN THE PROPERTY THAT IS WITHIN THE LIMITS OF CONSTRUCTION.
- REMOVE CURBING; SAWCUT WHERE NEW CURB WILL ABUT EXISTING CURB
- SAW CUT PAVEMENT; CREATE A CLEAN, STRAIGHT EDGE
- EXISTING TREES) TO REMAIN (TREE PROTECTION FENCING/TPF)- NO DEMOLITION ACTIVITY SHALL TAKE PLACE WITHIN DRIP LINE OF TREES)- INCLUDING MOVING EQUIPMENT, STACKING / STORING OF MATERIALS, AND PARKING OF VEHICLES AND EQUIPMENT
- EXISTING CHAINLINK FENCE TO BE REMOVED AND LEGALLY DISPOSED OF OFFSITE
- REMOVE EXISTING WALL. SEE KEY NOTES 4, 5, AND 6.

KEYPLAN



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Job Number 2150
Drawn By BLM/EPM
Checked By BJM
Date 09/28/2022

**SITE DEMOLITION
PLAN - WEST**

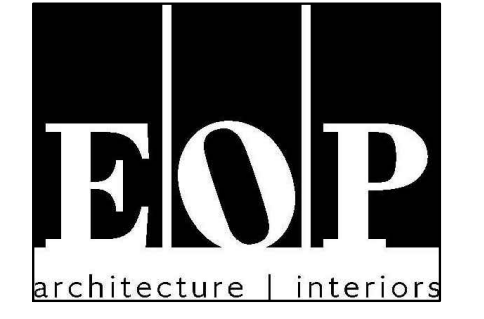
L200-A

NEW FCPS
COMBINED CTE
SCHOOL
BG# 22-167

100 Midland Ave.
Lexington, KY 40508

BID DOCUMENTS

Table with 2 columns: #, DATE, DESCRIPTION, REVISION. Row 4: 4, 10/28/22, Revision 4, Revision 4



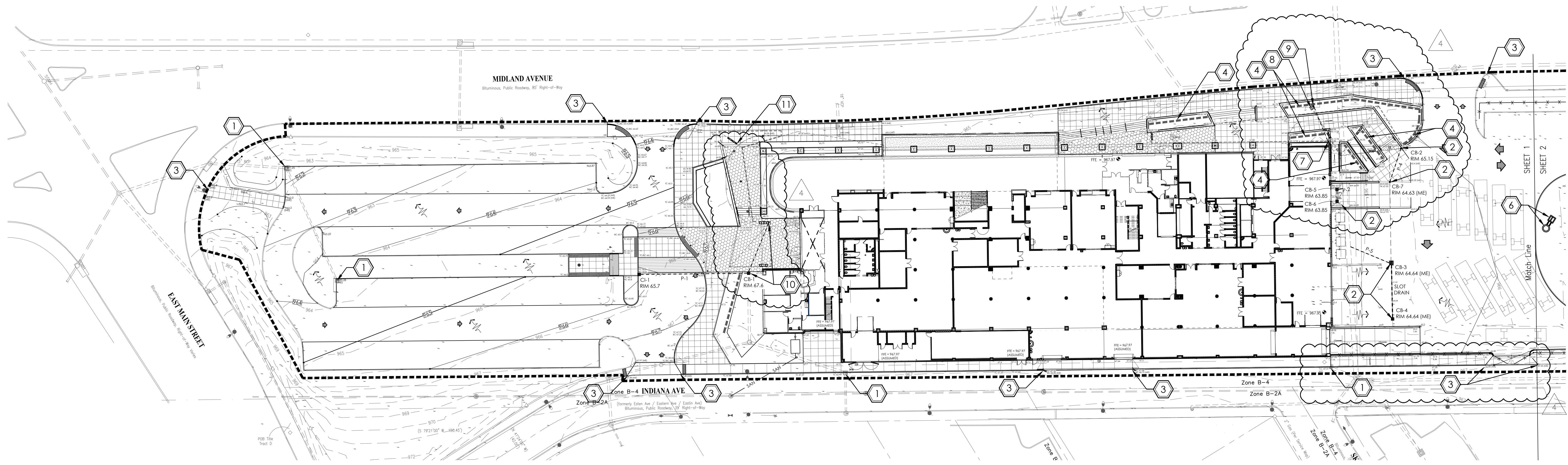
PROJECT TEAM

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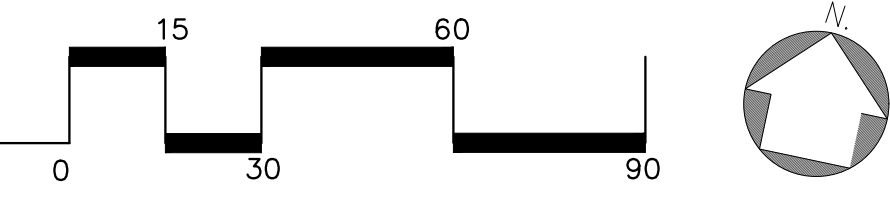
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366 S. Broadway
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FCPS CTE - WEST - GRADING AND DRAINAGE PLAN

SCALE 1" = 30'-0"



GRADING AND DRAINAGE GENERAL NOTES:

- A. THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED FROM A SURVEY BY ENDRIS ENGINEERING... THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR... THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON... CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
B. THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF EXISTING AND PROPOSED UTILITY LINES... THESE LINES HAVE BEEN IDENTIFIED AND LOCATED AS ACCURATELY AS POSSIBLE USING AVAILABLE INFORMATION... THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ACTUAL LOCATIONS.
C. PROTECT EXISTING TREES FROM POTENTIAL DAMAGE OF CONSTRUCTION OPERATIONS... STEEPEN GRADES UPHILL FROM EXISTING TREES TO A MAX. OF 2:1 TO AVOID FILLING SOILS ONTO TRUNKS.
D. UNLESS OTHERWISE INDICATED TO BE REMOVED, ALL ITEMS REMAINING WITHIN THE LIMIT OF CONTRACT ARE TO REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
E. THE CONTRACTOR SHALL MAINTAIN STORM DRAINAGE SYSTEMS TO FUNCTION THROUGHOUT THE CONSTRUCTION PERIOD.
F. PROPOSED GRADES SHOWN ARE FINISHED GRADES.
G. LIMIT OF GRADING EXTENTS TO INCLUDE ALL AREAS DISTURBED BY ALL SITE UTILITY WORK... REFER TO SITE UTILITY DRAWINGS FOR LOCATIONS OF PROPOSED SITE UTILITIES.
H. REFER TO SPECIFICATION / PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
I. ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO MATCH PROPOSED FINISHED GRADES.
J. ALL EXISTING LAWN AREAS DISTURBED BY CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRADING & EARTHWORK & SITE UTILITY WORK ARE TO BE SEEDED UNLESS OTHERWISE INDICATED... EXTEND LIMITS OF SEEDING TO INCLUDE ALL AREAS DISTURBED BY CONSTRUCTION... SEE SPECIFICATIONS LAWS AND GRASSES FOR FINE GRADING AND SEEDING REQUIREMENTS.
K. PROVIDE EROSION CONTROL BLANKET FOR ALL SEEDED SLOPES 4:1 OR STEEPER... SEE SPECIFICATIONS AND SWPP PLAN FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
L. FOR PROPOSED DRAINAGE STRUCTURES, INVERT ELEVATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED FOR EXISTING DRAINAGE STRUCTURES... FIELD VERIFY ELEVATIONS PRIOR TO INSTALLATION OF STORM STRUCTURES.
M. FOR PROPOSED DRAINAGE PIPE, PIPE LENGTHS & SLOPES ARE APPROXIMATE & SHOULD BE ADJUSTED AS NECESSARY TO MEET EXISTING AND PROPOSED STORM STRUCTURES.
N. GRADE ALL NEW PAVEMENTS TO DRAIN... GRADE ALL NEW WALKS AT MAX. 2% CROSS SLOPE... GRADE ALL NEW WALKS TO MAX. 5% LONGITUDINAL SLOPE UNLESS OTHERWISE SPECIFICALLY INDICATED ON PLANS TO BE A RAMP.
O. SEE ENLARGED PLANS FOR ADDITIONAL SPOT ELEVATIONS.
P. ALL DRAINAGE SWALES SHALL BE SODDED WITH MIN. 6" WIDE SOD FOR FULL LENGTH OF SWALE.
Q. SEE MEP DRAWINGS FOR RINAL LOCATIONS AND INVERT ELEVATIONS OF UNDERSLAB DRAIN LINES.
R. CONTRACTOR SHALL JET ALL STORM LINES WITHIN THE SITE TO REMOVE ALL SEDIMENTATION... LINES SHALL BE CAMERA INSPECTED AND A REPORT GENERATED... REPORT AND VIDEO INSPECTION SHALL BE PROVIDED TO OWNER AND ENGINEER... REPORT SHALL INCLUDE CONDITION ANALYSIS OF PIPES... DOCUMENTATION OF ALL CONNECTIONS, DEPTH OF LINES AND LOCATION WITH SCALED SITE MAPS... ALL EXCAVATION AND DEFORMATION FOR THE COMPLETION OF REPORT SHALL BE INCIDENTAL... THIS WORK SHALL BE COMPLETED PRIOR TO THE ORDERING OF MATERIAL OR INSTALLATION OF LINES AND STRUCTURES.

GRADING AND DRAINAGE LEGEND

- PROPOSED CONTOUR (dashed line)
PROPOSED SPOT ELEVATION (+93.0)
FIELD VERIFY (FV)
BOTTOM OF CURB (BC)
TOP OF CURB (TC)
BOTTOM OF WALL (BW)
TOP OF WALL (TW)
DRAINAGE DIRECTION (arrow)
NEW OUTLET STRUCTURE (OS)
NEW CATCH BASIN (CB)
NEW YARD INLET (YI)
DIVERSION STRUCTURE (DS)
WATER QUALITY UNIT (WQU)
NEW TYPE F CURB INLET (CI)
PROPOSED HEADWALL WITH OUTLET PROTECTION (H)
NEW PERFORATED SUBDRAIN TO CONNECT TO NEAREST STORM STRUCTURE (S)
OUTLET PROTECTION / CLASS 2 CHANNEL LINING (O)

GRADING AND DRAINAGE KEYNOTES

- 1. EXISTING STORM STRUCTURE... PROTECT INLET THROUGHOUT CONSTRUCTION OR UNTIL INLET IS REMOVED.
2. NEW STORM STRUCTURE TO BE INSTALLED... PROTECT IMMEDIATELY UPON INSTALLATION... REFER TO DRAINAGE PLAN FOR STRUCTURE TYPE & LOCATION.
3. MATCH EXISTING ELEVATION AT ALL PAVEMENT TRANSITIONS.
4. 6" SUBDRAIN WITH SOCK TO CONNECT TO STORM WITH MANUFACTURERS STANDARD FITTINGS... TRANSITION TO 6" SOLID HDPE OR PVC PIPE UNDER WALKS... THROUGH WALLS AND CONNECT TO NEAREST STORM STRUCTURE.
5. 6" SUBDRAIN WITH SOCK TO CONNECT TO STORM WITH MANUFACTURERS STANDARD FITTINGS... CONNECT TO NEW CLEANOUT... KEEP SUBDRAIN CLOSE TO THE PERIMETER OF THE FENCED AREA WITH A MINIMUM OFFSET OF 4"... COORDINATE WITH OBSTACLE COURSE LAYOUT TO ENSURE THERE ARE NO CONFLICTS.
6. DIVERSION STRUCTURE TO BE INSTALLED IN EXISTING STORM LINE AT LOCATION SHOWN ON PLAN... WATER QUALITY UNIT TO BE INSTALLED PER DETAIL A-1300-B.
7. CONNECT DOWNSPOUT TO 6" SOLID DRAIN PIPE... CONNECT 6" PLANTER PERFORATED SUBDRAIN PIPE TO SOLID PIPE.
8. CANOPY "RAIN CHAIN" CONNECTION... 2X2 SLAB FOR CHAIN ANCHORS... SLOPE SLAB TOWARD DRAIN... SLAB TO BE CONCEALED WITH 4" OF RIVER ROCK... SEE LANDSCAPE PLAN... SEE ARCHITECTURAL DETAIL FOR RAIN CHAIN DETAIL.
9. INSTALL 8"X8" YARD DRAIN NEXT TO MAIN CHAIN ANCHOR SLAB... POUR CONCRETE COLLAR AROUND DRAIN WITH ANCHOR SLAB... SET 1" BELOW SLAB AND CONCRETE WITH RIVER ROCK... CONNECT YARD DRAIN TO STORM SYSTEM (TO BE FIELD LOCATED AFTER STORM INFRASTRUCTURE EXPLORATORY WORK IS COMPLETED... SEE GENERAL NOTE "E")... SEE LANDSCAPE PLAN FOR RIVER ROCK EXTENTS.
10. CONNECT CANOPY DOWNSPOUT TO CB-1 WITH 6" SOLID DRAIN PIPE.
11. CONNECT CANOPY DOWNSPOUT TO ADJACENT STORM STRUCTURE WITH "INSERT-A-TEE" (OR EQUAL) FITTING... INSTALL CLEANOUT RISER AND CONNECT DOWNSPOUT PIPE TO RISER... TO BE FIELD LOCATED AFTER STORM INFRASTRUCTURE EXPLORATORY WORK IS COMPLETED... SEE GENERAL NOTE "E".

STORM STRUCTURE CHART

Table with 5 columns: STRUCTURE #, RIM ELEVATION, INVERT IN, INVERT OUT, SIZE / NOTES. Lists structures CB-1 through WQU-1 with their respective elevations and notes such as 'to be set on existing storm pipe; verify elevation'.

STORM PIPE SCHEDULE

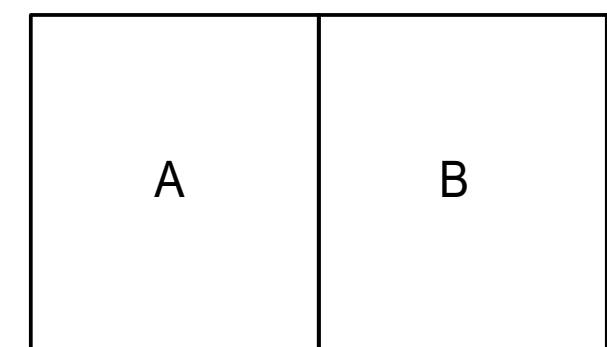
Table with 5 columns: PIPE NUMBER, APPROX. LENGTH, SIZE, APPROX. SLOPE %, MATERIAL. Lists pipes 1 through 9 with specifications like 12" RCP, 8" PIPE, 15" SLOT DRAIN, and 10" PIPE.

NOTE: ALL PIPE LENGTHS ARE APPROXIMATE AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR ONLY... CONTRACTOR TO FIELD VERIFY LENGTHS AND SLOPES NEED TO MEET THE REQUIREMENTS OF THE STORM SYSTEM AS INDICATED... CONTRACTOR MAY CHOOSE TO USE HDPE OR RCP WHERE THE MATERIAL IS NOTED AS "PIPE"... WHERE MATERIAL IS SPECIFIED IN THE CHART ABOVE, THE CONTRACTOR IS TO USE THAT MATERIAL.

*PROVIDE 42" TALL CHAINLINK FENCING IF FACE OF WALL IS TALLER THAN 30"

BURIED UTILITIES NOTE... THE NEW LOOK FOR DIGGING SAFELY IN KENTUCKY... Kentucky 811... Call 811 Before You Dig!

KEYPLAN



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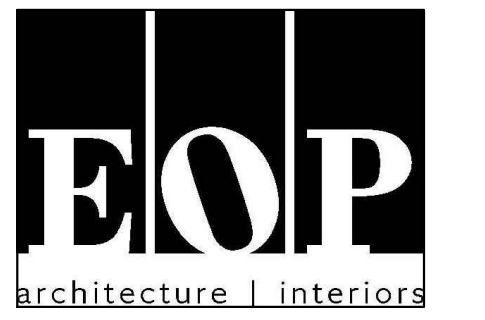
Job Number 2150 PLAN TRUE
Drawn By BLM/EPM
Checked By BJM
Date 09/28/2022

GRADING AND DRAINAGE PLAN - WEST

L300-A

**NEW FCPS
COMBINED CTE
SCHOOL
BG# 22-167**
100 Midland Ave.
Lexington, KY 40508
BID DOCUMENTS

REVISIONS	
#	DATE DESCRIPTION
4	10/28/22 Revision 4



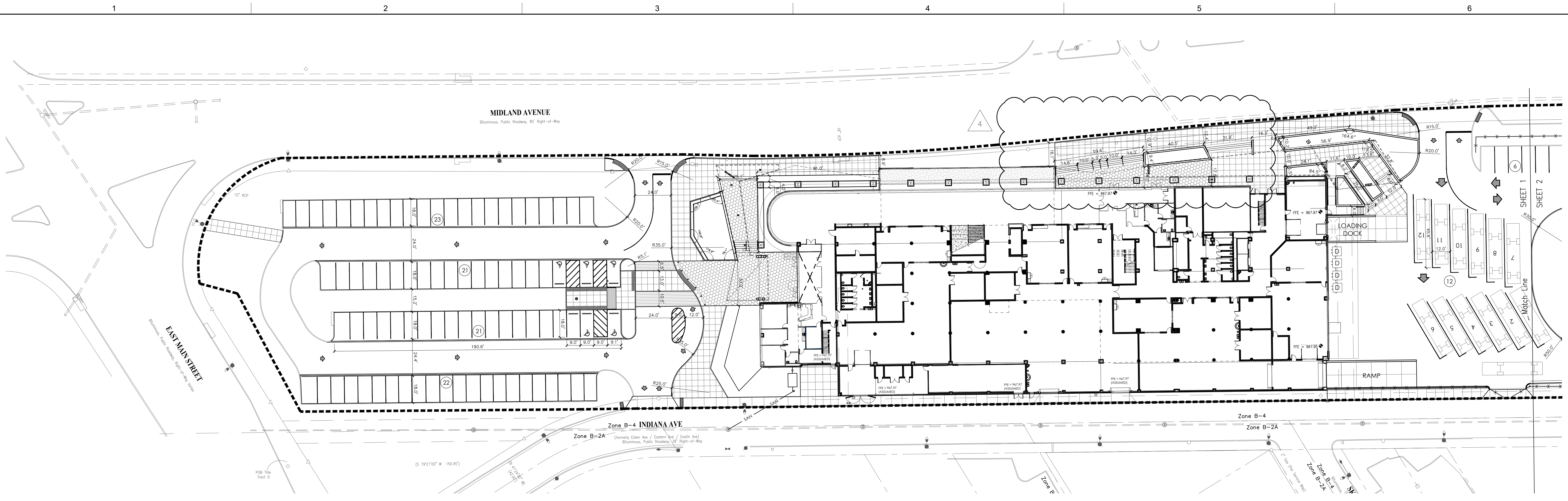
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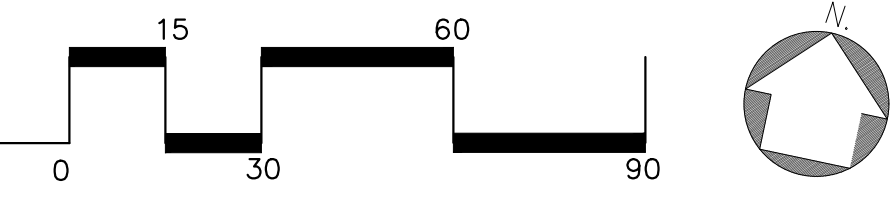
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FCPS CTE - WEST - SITE LAYOUT PLAN

SCALE 1" = 30'-0"



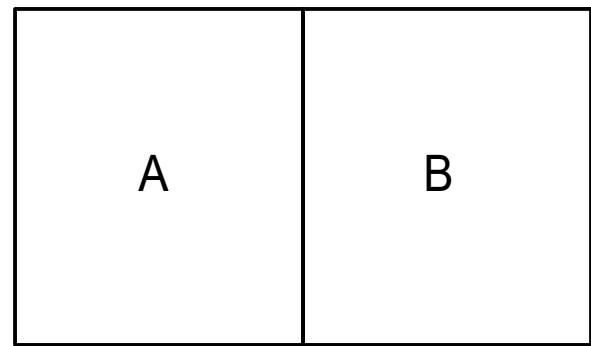
LAYOUT GENERAL NOTES:

- A. THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED FROM A SURVEY BY ENDRS ENGINEERING. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON. CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- B. DIMENSIONS GIVEN IN RELATIONSHIP TO BUILDINGS OR OTHER SITE ELEMENTS ARE MEASURED PERPENDICULAR FROM THE OUTSIDE FACE OF BRICK, STONE OR CONCRETE UNLESS OTHERWISE INDICATED.
- C. DIMENSIONS ARE REFERENCED AT 90 DEGREE ANGLES UNLESS OTHERWISE INDICATED.
- D. COORDINATE PLACEMENT OF EXPANSION AND CONTROL JOINTS IN CURB WITH ADJACENT WALK WHERE APPLICABLE.
- E. UNLESS OTHERWISE INDICATED, ALL CURB RADI ARE 5' MEASURED AT THE OUTSIDE FACE OF CURB AND ALL RADI AT THE INTERSECTION OF WALKS ARE 5' UNLESS INDICATED OTHERWISE ON THE PLAN.
- F. ALIGN CONTROL AND EXPANSION JOINTS WITH CORNERS AND EDGES OF BUILDINGS AND WALLS.
- G. UNLESS OTHERWISE INDICATED, ALL WALKS CONNECTING TO THE PROPOSED BUILDING SHALL ALIGN WITH THE CENTER OF DOORWAY OR OPENING AND FLUSH WITH FINISH GRADES AT BUILDINGS.
- H. FOR SITE LIGHTING DETAILS AND REQUIREMENTS, SEE M&E DRAWINGS.
- I. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL INVOLVED UTILITY COMPANIES, COORDINATING ALL CONSTRUCTION ACTIVITIES, AND VERIFYING ALL SITE UTILITIES PRIOR TO CONSTRUCTION ACTIVITY.
- J. EXPANSION JOINTS SHALL BE PLACED BETWEEN ALL EXISTING CONCRETE PAVEMENTS, BUILDINGS AND WALLS AS WELL AS ALL PROPOSED CONCRETE PAVEMENTS AND WALLS.
- K. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LAYOUT LEGEND

- CL E:204069.4193
N:1568966.7441
*COORDINATE POINTS - AWARDED CONTRACTOR SHALL RECEIVE DIGITAL FILE FOR LAYOUT PURPOSES.
- PI CENTERLINE POINT OF INTERSECTION
- PC CENTERLINE POINT OF CURVATURE/TANGENCY
- CC CENTERLINE OF COLUMN
- CENTERLINE

KEYPLAN

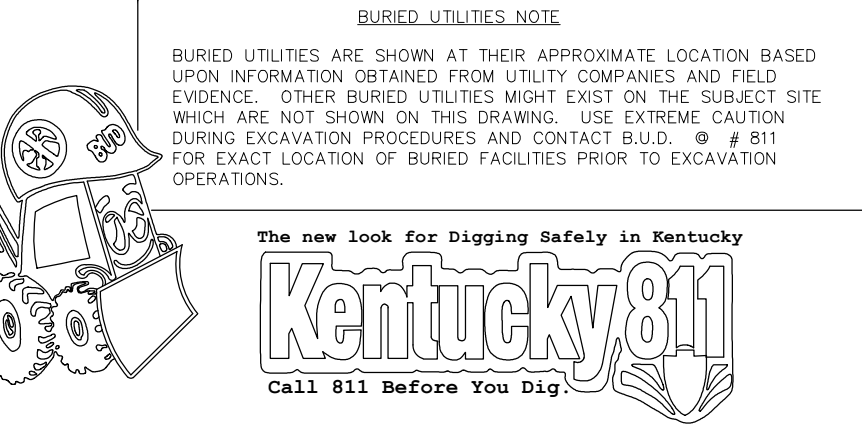
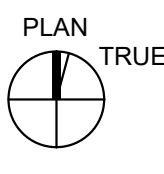


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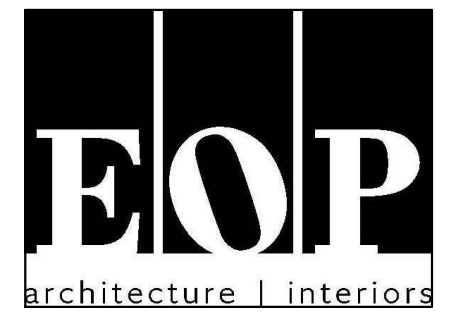
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Job Number 2150
Drawn By BLM/EPM
Checked By BJM
Date 09/28/2022



REVISIONS	
#	DATE DESCRIPTION
4	10/28/22 Revision 4



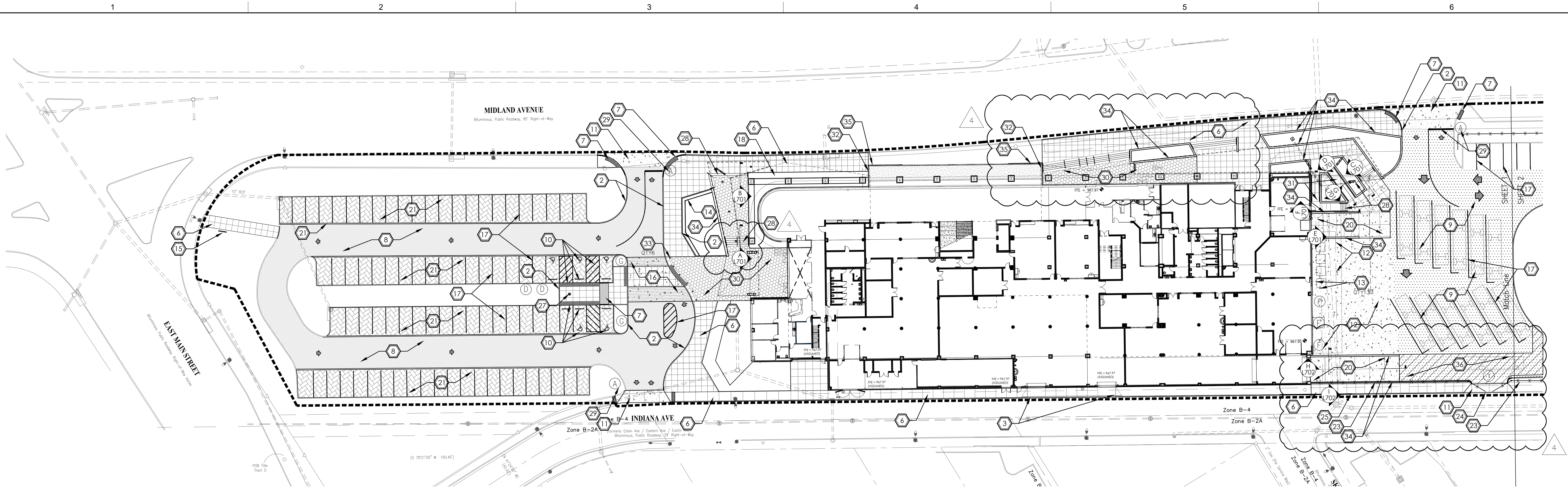
PROJECT TEAM

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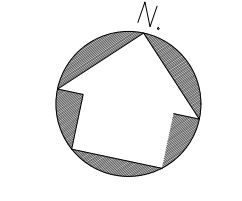
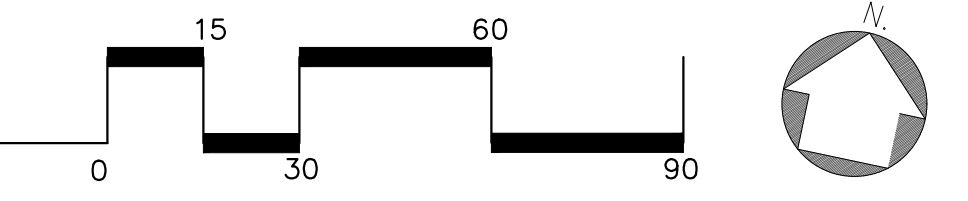
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Element Design, PLLC.
366 S. Broadway
Lexington, KY 40508



FCPS CTE - WEST - SITE MATERIALS PLAN

SCALE 1" = 30'-0"



SITE MATERIALS GENERAL NOTES:

- A. THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED FROM A SURVEY BY ENDRS ENGINEERING. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON. CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- B. DIMENSIONS GIVEN IN RELATIONSHIP TO BUILDINGS OR OTHER SITE ELEMENTS ARE MEASURED PERPENDICULAR FROM THE OUTSIDE FACE OF BRICK, STONE OR CONCRETE UNLESS OTHERWISE INDICATED.
- C. DIMENSIONS ARE REFERENCED AT 90 DEGREE ANGLES UNLESS OTHERWISE INDICATED.
- D. COORDINATE PLACEMENT OF EXPANSION AND CONTROL JOINTS IN CURB WITH ADJACENT WALK WHERE APPLICABLE.
- E. UNLESS OTHERWISE INDICATED, ALL CURB RADI ARE 5' MEASURED AT THE OUTSIDE FACE OF CURB AND ALL RADI AT THE INTERSECTION OF WALKS ARE 5' UNLESS INDICATED OTHERWISE ON THE PLAN.
- F. ALIGN CONTROL AND EXPANSION JOINTS WITH CORNERS AND EDGES OF BUILDINGS AND WALLS.
- G. UNLESS OTHERWISE INDICATED, ALL WALKS CONNECTING TO THE PROPOSED BUILDING SHALL ALIGN WITH THE CENTER OF DOORWAY OR OPENING AND FLUSH WITH FINISH GRADES AT BUILDINGS.
- H. FOR SITE LIGHTING DETAILS AND REQUIREMENTS, SEE M&E DRAWINGS.
- I. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL INVOLVED UTILITY COMPANIES, COORDINATING ALL CONSTRUCTION ACTIVITIES, AND VERIFYING ALL SITE UTILITIES PRIOR TO CONSTRUCTION PRACTICE.
- J. EXPANSION JOINTS SHALL BE PLACED BETWEEN ALL EXISTING CONCRETE PAVEMENTS, BUILDINGS AND WALLS AS WELL AS ALL PROPOSED CONCRETE PAVEMENTS AND WALLS.
- K. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

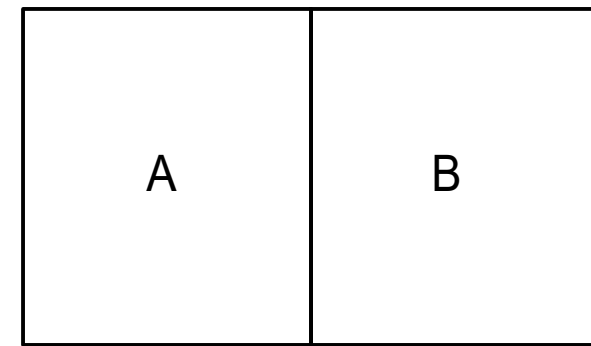
SITE MATERIALS LEGEND

- CONCRETE CURB
SEE DETAIL
- HEAVY DUTY ASPHALT PAVEMENT
SEE DETAIL
- LIGHT DUTY ASPHALT PAVEMENT
SEE DETAIL
- BROOMED CONCRETE PAVEMENT
WITH TOOLED CONTROL
- NEW 6" REINFORCED CONCRETE
SEE DETAIL
- ALTERNATE #2: PERVIOUS
CONCRETE PAVERS
- TRAFFIC OR DIRECTIONAL SIGN;
SEE DETAIL A & B/L401A
- GATE NUMBER FOR CHAINLINK GATE
SCHEDULE; SEE DETAIL A/L602
- HEAVY DUTY ASPHALT PAVEMENT
SEE DETAIL
- EXPANSION JOINT
SEE DETAIL
- NEW SITE WALLS
SEE DETAILS
- CONTROL JOINT-
SEE KEYNOTES
& DETAILS.
- 6" CURB TRANSITION
- CENTERLINE OF PAVEMENT
- NEW CONCRETE BAND
- 8' TALL VINYL COATED CHAINLINK
FENCE
- 8' TALL VINYL COATED CHAINLINK
FENCE DOUBLE LEAF GATE.

SITE MATERIALS KEYNOTES

- 1. NEW CONCRETE CURB AND GUTTER. SEE DETAIL E/L601.
- 2. NEW HEADER CURB. SEE DETAIL E/L601
- 3. NEW CONCRETE ROLL CURBS AT NEW OVERHEAD LOADING DOORS ON INDIANA AVE. SEE DETAIL E/L601
- 4. EXISTING CURB TO REMAIN.
- 5. NEW CONCRETE FLUME. SEE DETAIL G/L601.
- 6. NEW 4" CONCRETE SIDEWALK PAVEMENT. SEE DETAIL J/L601
- 7. NEW ACCESSIBLE CONCRETE RAMP WITH TACTILE WARNING STRIP TO MATCH WIDTH OF WALK AND A MIN 2" DEEP. SEE DETAIL F, G OR H/L601
- 8. BASE BID: NEW LIGHT DUTY ASPHALT PAVEMENT FULL SECTION. SEE DETAIL A/L601.
ALTERNATE #1: 2" ASPHALT OVERLAY
- 9. BASE BID: HEAVY DUTY ASPHALT PAVEMENT FULL SECTION. SEE DETAIL A/L601.
ALTERNATE #1: 2" ASPHALT OVERLAY
- 10. ACCESSIBLE PARKING SPACE WITH FLUSH CURB, WHEEL STOP, SIGN, ADA SYMBOL AND STRIPED AISLE. SEE DETAIL B & B/L601. ALL MARKINGS WITHING ADA SPACES SHALL BE THERMOPLASTIC.
- 11. NEW HEAVY DUTY CONCRETE ENTRANCE APRON PER FLUCC AND KYTC STANDARD DETAILS.
- 12. NEW HEAVY DUTY CONCRETE PAVEMENT/DUMPSTER PAD. SEE DETAILS O/L602
- 13. NEW 6" DIAMETER STEEL BOLLARD. SEE DETAIL B/L602
- 14. NEW SITE IDENTIFICATION SIGN. SEE DETAIL K/L702
- 15. NEW FCPS MARQUEE SIGN. SEE DETAIL SEE DETAIL E/L602
- 16. NEW CONCRETE SPEED TABLE. SEE DETAIL F/L602
- 17. 4" WIDE WHITE PARKING SPACE STRIPING.
- 18. NEW SOCIAL STAIR. SEE SECTION J/L702
- 19. OBSTACLE COURSE - EQUIPMENT TO BE OWNER PURCHASED AND INSTALLED. CONTRACTOR RESPONSIBLE FOR EXCAVATION AND SUBDRAIN AND CONCRETE FOOTINGS FOR 1 PIECE OF EQUIPMENT. SEE GRADING PLAN.
- 20. NEW HEAVY DUTY CONCRETE RAMP INTO BUILDING. SEE DETAILS H & I/L702
- 21. **ADDITIVE ALTERNATE #2:** NEW PERVEABLE PAVERS WITH CONCRETE ISOLATION BAND. SEE DETAILS M & N/L601
- 22. NEW 8' TALL VINYL COATED CHAINLINK FENCE WITH PRIVACY SLATS. SEE DETAIL A/L602
- 23. NEW 8' TALL VINYL COATED CHAINLINK FENCE ALONG R.O.W. SEE DETAIL A/L602
- 24. NEW 8' TALL VINYL COATED CHAINLINK FENCE DOUBLE SWING GATE WITH CENTER DROP ROD. SEE DETAIL A/L602
- 25. NEW SAFETY RAIL - 50L# ADDED TO EXISTING CURB. SEE DETAIL C/L602
- 26. NEW HEAVY DUTY CONCRETE PAD FOR FUTURE SHED BUILDING. SEE DETAIL I/L601.
- 27. NEW 25' TALL FLAG POLE AND BASE. SEE DETAIL P/L601
- 28. CONCRETE STEPS. SEE ASSOCIATED SECTION DETAIL L700/701.
- 29. NEW STOP SIGN AND STOP BAR. SEE DETAIL C/L601
- 30. NEW DECORATIVE PAVERS. SEE DETAIL Q/L601 AND SPECIFICATIONS.
- 31. NEW ACCESSIBLE RAMP SEE ASSOCIATED SECTION DETAIL L700/701.
- 32. NEW CONCRETE RETAINING WALL AT ENDS OF EXISTING RAISE PLANTER ALONG MIDLAND AVE. SEE DETAIL G/L602
- 33. ILLUMINATED VEHICULAR RATED BOLLARDS. REFER TO MEP PLANS FOR ADDITIONAL INFORMATION. SEE DETAIL H/L602
- 34. NEW CONCRETE RETAINING WALL. SEE DETAIL A/L701
- 35. NEW DECORATIVE GUARDS AT WALL ENDS AND CORNERS. SEE DETAIL L/L703
- 36. HEAVY DUTY ASPHALT PAVEMENT FULL SECTION. SEE DETAIL A/L601.

KEYPLAN

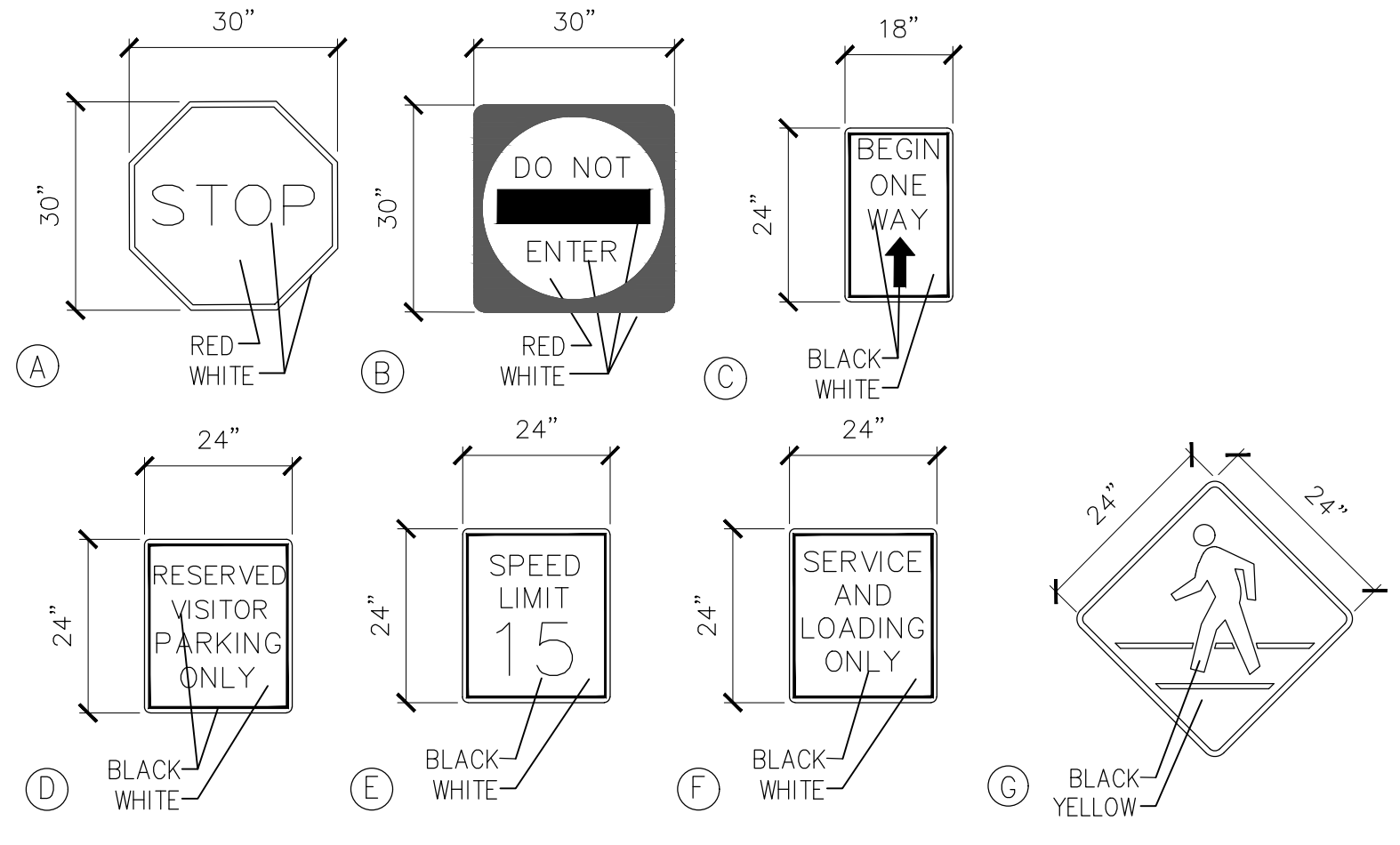


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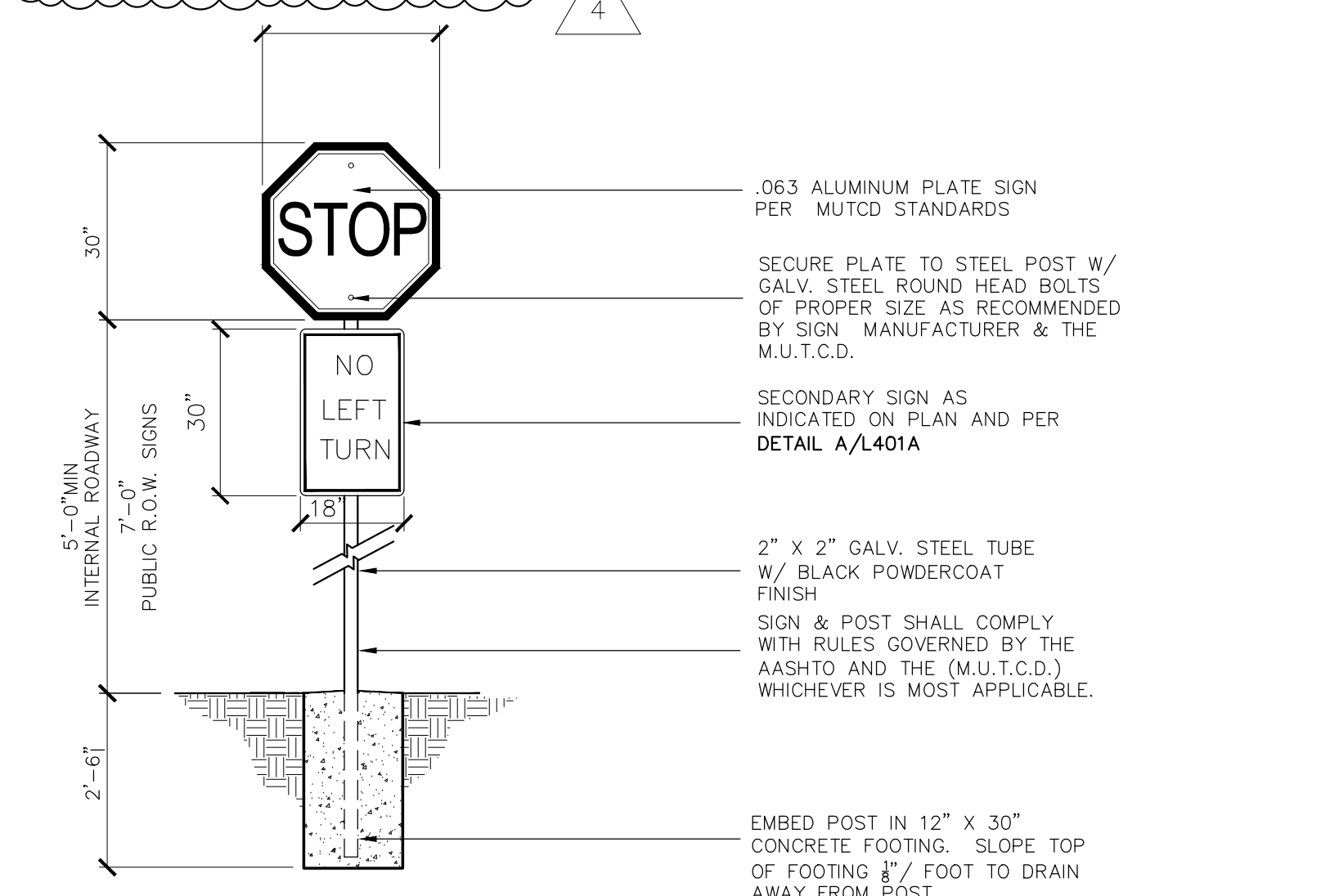
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Job Number	2150	PLAN
Drawn By	BLM/EPM	TRUE
Checked By	BJM	
Date	09/28/2022	



NOTES:
ALL SIGNS SHALL BE 1/8" ALUMINUM PLATE W/ REFLECTIVE PAINT
ALL SIGNS SHALL MEET KYTC SIGN REQUIREMENTS
SEE DETAIL B L6.2 FOR INSTALLATION OF POST AND MOUNTING



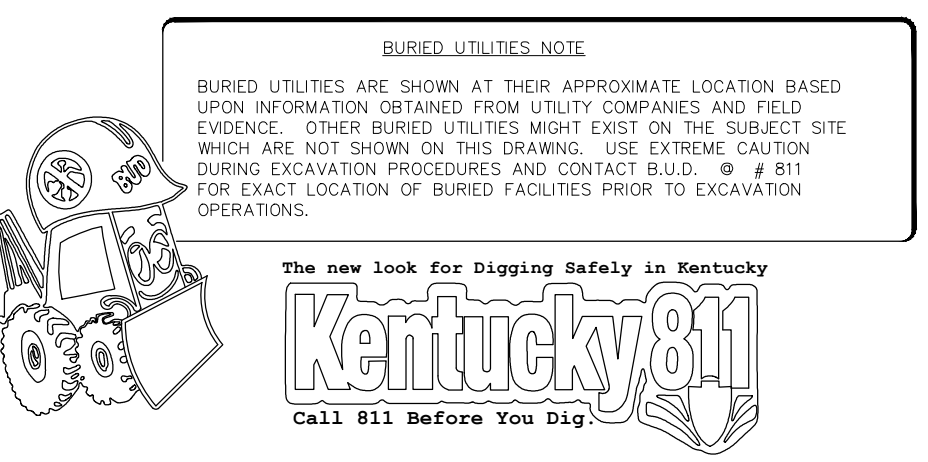
NOTES:
INSTALL STOP SIGN WITH EACH STOP BAR, WHERE INDICATED ON PLANS.
STOP SIGN TO BE 36" FROM EDGE OF ROADWAY, CENTERED ON STOP BAR.
SEE SPECS. FOR ADDITIONAL REQUIREMENTS.

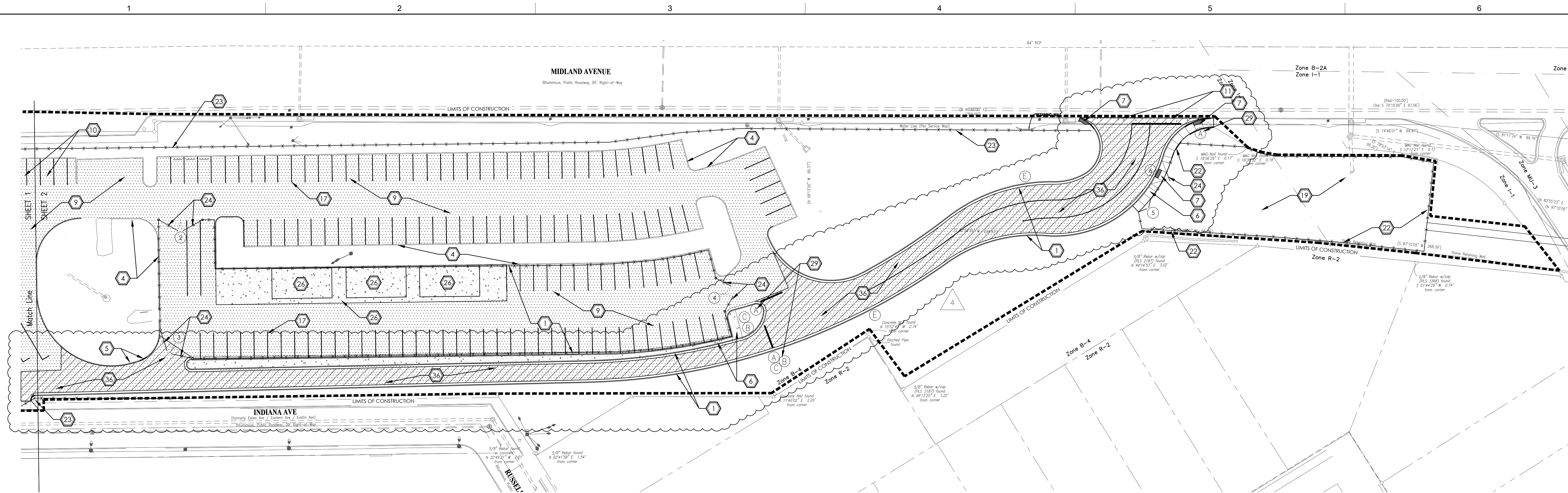
ROAD SIGNS

N.T.S. A

COMBINED SIGN

N.T.S. B





FCPS CTE - EAST - SITE MATERIALS PLAN

SCALE 1" = 30'-0"

SITE MATERIALS GENERAL NOTES:

- THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED FROM A SURVEY BY ENDRS ENGINEERING. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON. CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
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- DIMENSIONS ARE REFERENCED AT 90 DEGREE ANGLES UNLESS OTHERWISE INDICATED.
- COORDINATE PLACEMENT OF EXPANSION AND CONTROL JOINTS IN CURB WITH ADJACENT WALK WHERE APPLICABLE.
- UNLESS OTHERWISE INDICATED, ALL CURB RADI ARE 5' MEASURED AT THE OUTSIDE FACE OF CURB AND ALL RADI AT THE INTERSECTION OF WALKS ARE 8' UNLESS INDICATED OTHERWISE ON THE PLAN.
- ALIGN CONTROL AND EXPANSION JOINTS WITH CORNERS AND EDGES OF BUILDINGS AND WALLS.
- UNLESS OTHERWISE INDICATED, ALL WALKS CONNECTING TO THE PROPOSED BUILDING SHALL ALIGN WITH THE CENTER OF DOORWAY OR OPENING AND FLUSH WITH FINISH GRADES AT BUILDINGS.
- FOR SITE LIGHTING DETAILS AND REQUIREMENTS, SEE M&E DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL INVOLVED UTILITY COMPANIES, COORDINATING ALL CONSTRUCTION ACTIVITIES, AND VERIFYING ALL SITE UTILITIES PRIOR TO CONSTRUCTION ACTIVITY.
- EXPANSION JOINTS SHALL BE PLACED BETWEEN ALL EXISTING CONCRETE PAVEMENTS, BUILDINGS AND WALLS AS WELL AS ALL PROPOSED CONCRETE PAVEMENTS AND WALLS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SITE MATERIALS LEGEND

	CONCRETE CURB SEE DETAIL		EXPANSION JOINT
	HEAVY DUTY ASPHALT PAVEMENT SEE DETAIL		NEW SITE WALLS SEE DETAILS
	LIGHT DUTY ASPHALT PAVEMENT SEE DETAIL		CONTROL JOINT- SEE KEYNOTES & DETAILS.
	BROOMED CONCRETE PAVEMENT WITH TOOLED CONTROL		6" CURB TRANSITION
	NEW 6" REINFORCED CONCRETE SEE DETAIL		CENTERLINE OF PAVEMENT
	ALTERNATE #2: PERVIOUS CONCRETE PAVERS		NEW CONCRETE BAND
	TRAFFIC OR DIRECTIONAL SIGN; SEE DETAIL A & B/L401A		8' TALL VINYL COATED CHAINLINK FENCE
	GATE NUMBER FOR CHAINLINK GATE SCHEDULE; SEE DETAIL A/L802		8' TALL VINYL COATED CHAINLINK FENCE DOUBLE LEAF GATE.
	HEAVY DUTY ASPHALT PAVEMENT SEE DETAIL		

SITE MATERIALS KEYNOTES

- NEW CONCRETE CURB AND GUTTER. SEE DETAIL E/L601.
- NEW HEADER CURB. SEE DETAIL E/L601
- NEW CONCRETE ROLL CURBS AT NEW OVERHEAD LOADING DOORS ON INDIANA AVE. SEE DETAIL E/L601
- EXISTING CURB TO REMAIN.
- NEW CONCRETE FLUME. SEE DETAIL G/L601.
- NEW 4" CONCRETE SIDEWALK PAVEMENT. SEE DETAIL J/L601
- NEW ACCESSIBLE CONCRETE RAMP WITH TACTILE WARNING STRIP TO MATCH WIDTH OF WALK AND A MIN 2' DEEP. SEE DETAIL F, G OR H/L601
- BASE BID: NEW LIGHT DUTY ASPHALT PAVEMENT FULL SECTION. SEE DETAIL A/L601.
ALTERNATE #1: 2" ASPHALT OVERLAY
- BASE BID: HEAVY DUTY ASPHALT PAVEMENT FULL SECTION. SEE DETAIL A/L601.
ALTERNATE #1: 2" ASPHALT OVERLAY
- ACCESSIBLE PARKING SPACE WITH FLUSH CURB, WHEEL STOP, SIGN, ADA SYMBOL AND STRIPED AISLE. SEE DETAIL B & D/L601. ALL MARKINGS WITHING ADA SPACES SHALL BE THERMOPLASTIC.
- NEW HEAVY DUTY CONCRETE ENTRANCE APRON PER FLUGG AND KYTC STANDARD DETAILS.
- NEW HEAVY DUTY CONCRETE PAVEMENT/DUMPSTER PAD. SEE DETAILS O/L602.
- NEW 6" DIAMETER STEEL BOLLARD. SEE DETAIL B/L602
- NEW SITE IDENTIFICATION SIGN. SEE DETAIL K/L702.
- NEW FCPS MARQUEE SIGN. SEE DETAIL E/L602
- NEW CONCRETE SPEED TABLE. SEE DETAIL F/L602.
- 4" WIDE WHITE PARKING SPACE STRIPING.
- NEW SOCIAL STAIR. SEE SECTION J/L702
- OBSTACLE COURSE - EQUIPMENT TO BE OWNER PURCHASED AND INSTALLED. CONTRACTOR RESPONSIBLE FOR EXCAVATION AND SUBDRAIN AND CONCRETE FOOTINGS FOR 1 PIECE OF EQUIPMENT. SEE GRADING PLAN.
- NEW HEAVY DUTY CONCRETE RAMP INTO BUILDING. SEE DETAILS H & I/L702.
- ADDITIVE ALTERNATE #2:** NEW PERMEABLE PAVERS WITH CONCRETE ISOLATION BAND. SEE DETAILS M & N/L601
- NEW 8' TALL VINYL COATED CHAINLINK FENCE WITH PRIVACY SLATS. SEE DETAIL A/L602
- NEW 8' TALL VINYL COATED CHAINLINK FENCE ALONG R.O.W. SEE DETAIL A/L602
- NEW 8' TALL VINYL COATED CHAINLINK FENCE DOUBLE SWING GATE WITH CENTER DROP ROD. SEE DETAIL A/L602
- NEW SAFETY RAIL - 50LF ADDED TO EXISTING CURB. SEE DETAIL C/L602
- NEW HEAVY DUTY CONCRETE PAD FOR FUTURE SHED BUILDING. SEE DETAIL I/L601.
- NEW 25' TALL FLAG POLE AND BASE. SEE DETAIL P/L601
- CONCRETE STEPS. SEE ASSOCIATED SECTION DETAIL L700/701.
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- NEW CONCRETE RETAINING WALL. SEE DETAIL A/L701
- NEW DECORATIVE GUARDS AT WALL ENDS AND CORNERS. SEE DETAIL L/L703
- HEAVY DUTY ASPHALT PAVEMENT FULL SECTION. SEE DETAIL A/L601.

NEW FCPS COMBINED CTE SCHOOL BG# 22-167

100 Midland Ave.
Lexington, KY 40508

BID DOCUMENTS

REVISIONS	
#	DATE DESCRIPTION
4	10/28/22 Revision 4



PROJECT TEAM

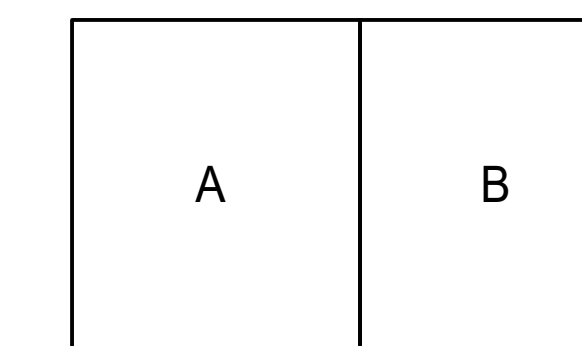
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KEYPLAN

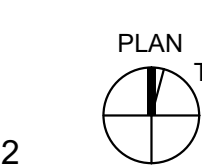


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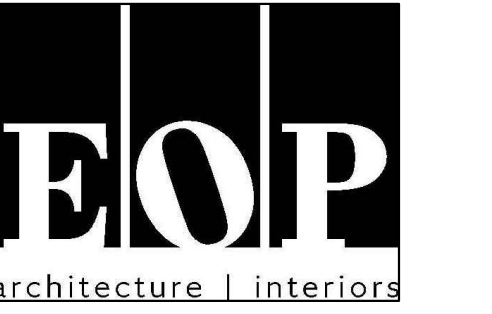
Job Number 2150
Drawn By BLM/EPM
Checked By BJM
Date 09/28/2022



SITE MATERIALS
PLAN - EAST

L401-B

REVISIONS	
#	DESCRIPTION
4	Revision 4

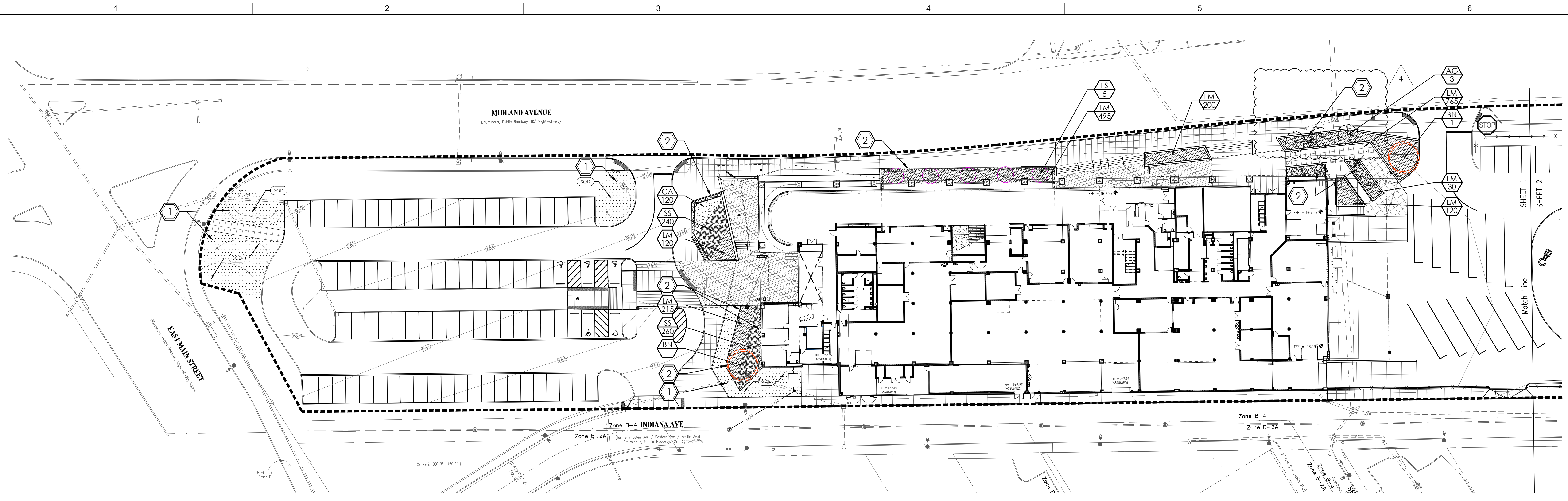


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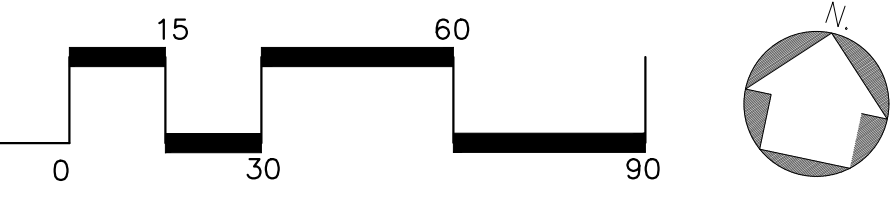
Shrout Tate Wilson Consulting Engineers
MEP Engineers
628 Winchester Rd.
Lexington, KY 40505

Element Design, PLLC.
366 S. Broadway
Lexington, KY 40508



FCPS CTE - WEST - LANDSCAPE PLAN

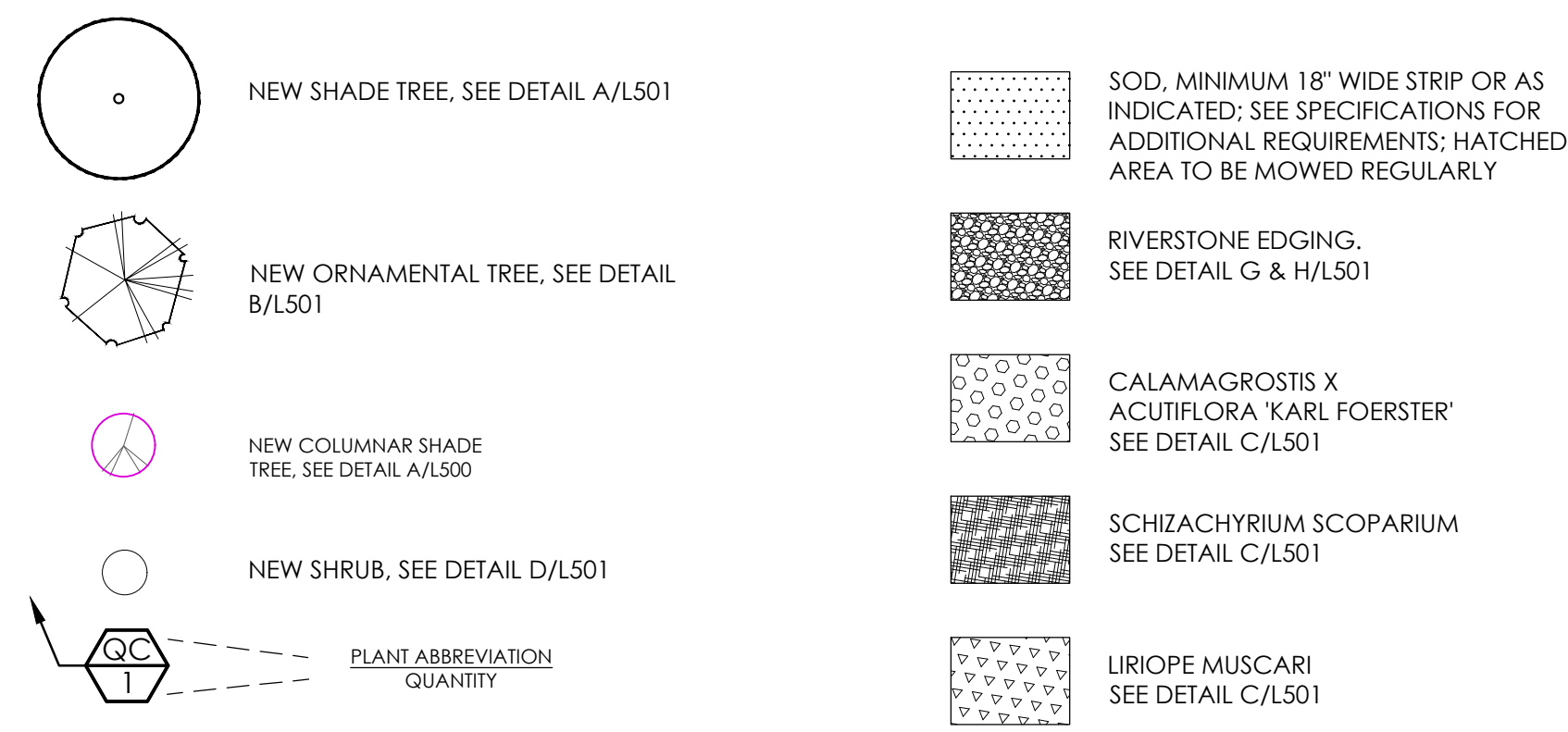
SCALE 1" = 30'-0"



LANDSCAPE GENERAL NOTES:

- A. THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED FROM A SURVEY BY ENDRS ENGINEERING. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON. CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING AND LAYOUT OF THE PLANTINGS ON THIS PROJECT. SECURE APPROVAL OF THE PLANNING LAYOUT IN THE FIELD WITH THE LANDSCAPE ARCHITECT PRIOR TO OPENING ANY PLANTING PITS OR BEDS.
- C. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- D. THE CONTRACTOR SHALL PREPARE A CULTIVATED BED AROUND EACH GROUP OF SHRUBS &/OR GROUND COVER BEDS, THE SAME SHAPE AND SIZE AS SHOWN ON THE PLAN. THE ENTIRE BED SHALL BE MULCHED. A CRISP, WELL DEFINED EDGE SHALL BE DEVELOPED BETWEEN ANY SHRUB &/OR GROUND COVER BED AND THE ADJOINING LAWN AREA.
- E. ONLY NURSERY GROWN PLANT MATERIAL SHALL BE USED. COLLECTED PLANT MATERIAL IS NOT ACCEPTABLE AND WILL BE REJECTED BY THE LANDSCAPE ARCHITECT. MATERIAL SHALL BE OF HIGH QUALITY, EXCELLENT FORM AND TO THE SIZES AND SPECIFICATIONS INDICATED HEREIN. MATERIAL THAT DOES NOT MEET THE SPECIFICATIONS SHALL BE REJECTED.
- F. UNLESS OTHERWISE INDICATED, NATURAL DYE-FREE SHREDDED BARK MULCH SHALL BE USED IN ALL SHRUB AND/OR GROUND COVER BEDS AND AROUND ALL TREES PLANTED WITHIN OR BEYOND THE CONFINES OF THE PLANTING BEDS. CONTRACTOR SHALL PROVIDE MULCH SAMPLE FOR LANDSCAPE ARCHITECTS APPROVAL PRIOR TO CONSTRUCTION.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL BINDING CORDS AND ROPES FROM THE TRUNKS OF ALL SHADE AND ORNAMENTAL TREES IMMEDIATELY AFTER PLANTING. IDENTIFICATION TAGS AND RIBBONS SHALL BE REMOVED FROM ALL PLANT MATERIAL AT THE TIME OF PLANTING. TREE BASKETS SHALL BE CUT FROM THE TOP 1/3 OF THE ROOT BALL PRIOR TO PLANTING.
- H. ALL PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO THE SITE OR IF AGREED UPON BY LANDSCAPE ARCHITECT, MAY BE REVIEWED AT THE CONTRACTOR'S HOLDING YARD OR THE SITE PRIOR TO PLANTING.
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- J. ALL PLANT QUANTITIES ARE GIVEN AS A REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO PLANTING.
- K. PROTECT NEWLY PLANTED TREES AT TREE GRATES FROM CONSTRUCTION ACTIVITIES.
- L. ALL LAWN AREAS, EXISTING OR PROPOSED, DISTURBED BY CONSTRUCTION, ARE TO BE SODDED UNLESS SPECIFICALLY INDICATED TO BE SEEDED BY KEYNOTE. INSTALL PER SPECIFICATIONS. ALL SEEDED AREAS WITH SLOPE GREATER THAN 4:1 SHALL BE COVERED IN EROSION CONTROL BLANKET. EXTEND LIMITS OF DISTURBANCE TO INCLUDE ALL UTILITY WORK (SEE CIVIL AND MEP PLANS FOR FURTHER DETAILS).
- M. INSTALL ALUMINUM EDGING ADJACENT TO RIVER ROCK SHALL IF NOT LOCATED NEXT TO A HARD EDGE SUCH AS A BUILDING, CURB OR WALK.

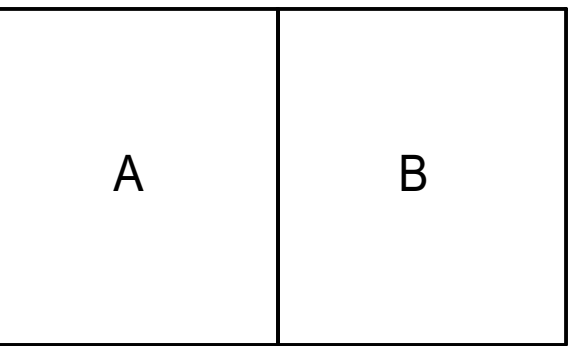
LANDSCAPE LEGEND



LANDSCAPE KEYNOTES

1. SOD ALL AREAS INDICATED BY HATCH. MINIMUM OF 3' ALONG ALL PAVEMENT EDGES UNLESS OTHERWISE INDICATED.
2. RIVER STONE EDGING. SEE LANDSCAPE LEGEND BELOW AND DETAIL G & H/L501

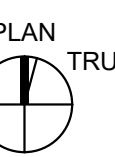
KEYPLAN



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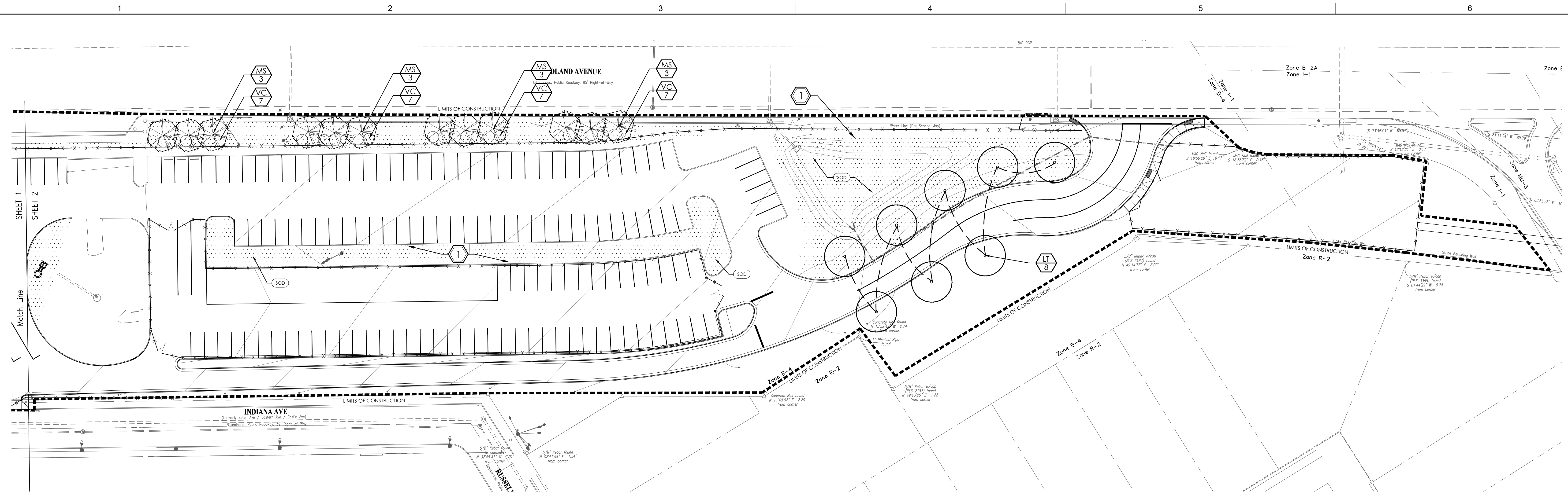
Job Number 2150
Drawn By BLM/EPM
Checked By BJM
Date 09/28/2022



	BOTANICAL NAME	COMMON NAME	CALIPER	BALL SIZE	HEIGHT	SPREAD	CANES	NOTES
AG	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Apple Serviceberry	2 1/2"	28" min	12 - 14'	N/A	max 3	B&B; 5' clear trunk
BN	Betula nigra 'Dura Heat'	Dura Heat River Birch	2 1/2"	28" min	12 - 14'	N/A	max 3	B&B; 5' clear trunk
LS	Liquidambar styraciflua 'slender silhouette'	Columnar sweetgum	2 1/2"	28" min	12 - 14'	N/A	1	B&B; 5' clear trunk
LT	Liriodendron tulipifera	Tulip Tree	2 1/2"	28" min	12 - 14'	N/A	1	B&B; 5' clear trunk
MS	Magnolia x soulangiana	saucer magnolia	2 1/2"	28" min	12 - 14'	N/A	max 3	B&B; 5' clear trunk
CA	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	-	3 gal. cont.	18-24"	14"	-	spaced as shown
JC	Juniperus conferta 'blue pacific'	Blue pacific juniper	-	3 gal. cont. OR B&B	12-18"	24 - 30"	-	48" O.C.; triangular spacing
LM	Liriope muscari 'variegata'	Variegated lily turf	-	1 gal. cont.	18"	18"	-	15" O.C.; triangular spacing
SS	Schizachyrium scoparium	Little Bluestem	-	3 gal. cont.	18-24"	14-18"	-	spaced as shown
VC	Viburnum carlesii	Korean spice viburnum	-	B&B	30"	24-30"	-	5' O.C. spacing

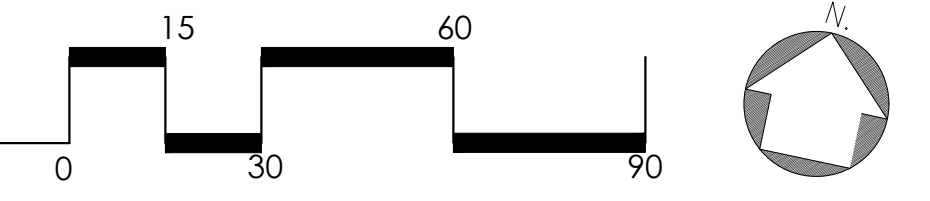
NOTE: PLANT VARIETY SUBSTITUTIONS ARE NOT PERMITTED WITHOUT APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.

BURIED UTILITIES NOTE
BURIED UTILITIES ARE SHOWN AT THEIR APPROXIMATE LOCATION BASED UPON INFORMATION OBTAINED FROM UTILITY COMPANIES AND FIELD EVIDENCE. OTHER BURIED UTILITIES MIGHT EXIST ON THE SUBJECT SITE WHICH ARE NOT SHOWN ON THIS DRAWING. USE EXTREME CAUTION DURING EXCAVATION PROCEDURES AND CONTACT B.U. @ 8 BY FOR EXACT LOCATION OF BURIED FACILITIES PRIOR TO EXCAVATION OPERATIONS.



FCPS CTE - EAST - LANDSCAPE PLANTING PLAN

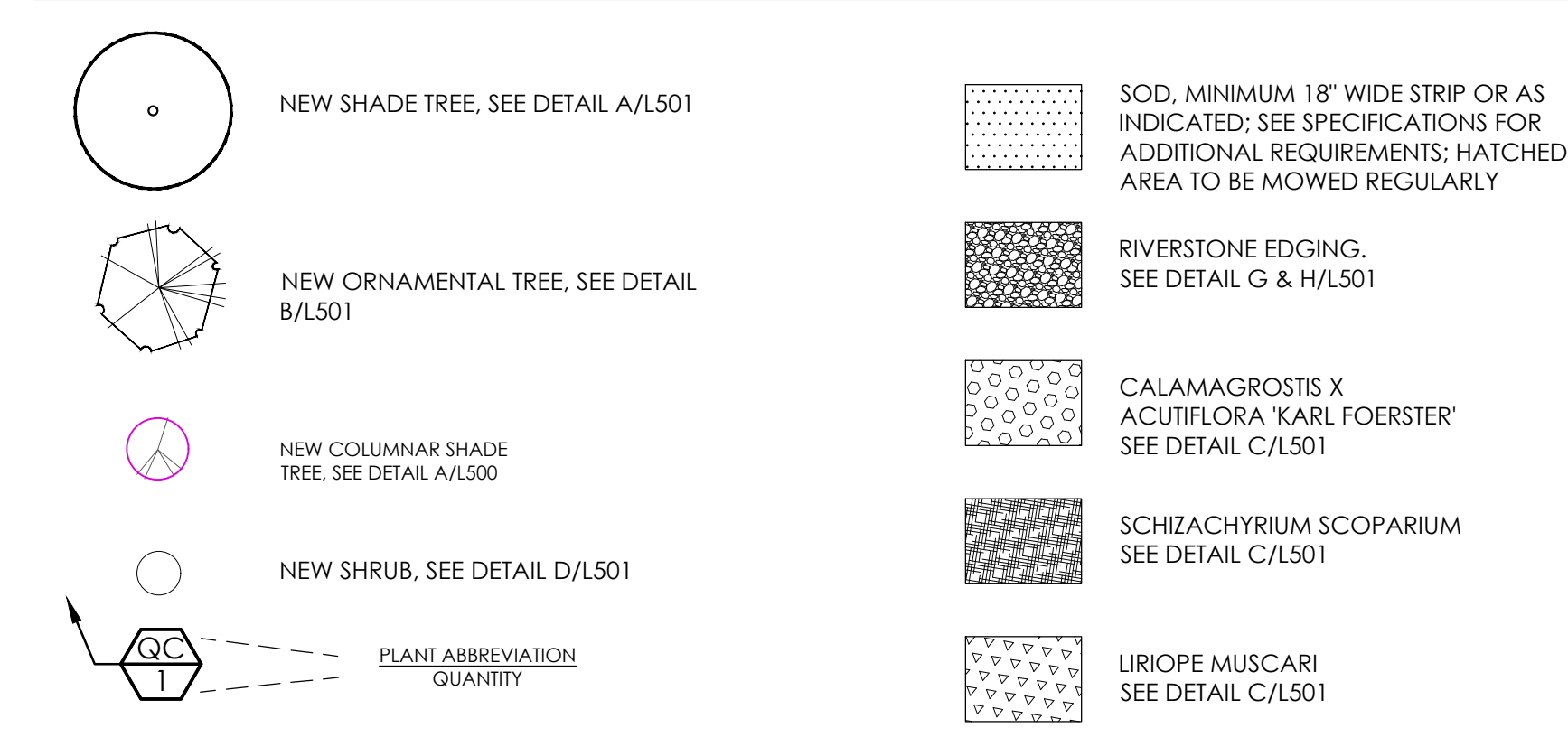
SCALE 1" = 30'-0"



LANDSCAPE GENERAL NOTES:

- A. THE EXISTING TOPOGRAPHIC AND SITE INFORMATION SHOWN HAS BEEN PROVIDED FROM A SURVEY BY ENDRIS ENGINEERING. THIS INFORMATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION SHOWN THEREON. CONTRACTOR TO VERIFY ALL INFORMATION SHOWN.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING AND LAYOUT OF THE PLANTINGS ON THIS PROJECT. SECURE APPROVAL OF THE PLANTING LAYOUT IN THE FIELD WITH THE LANDSCAPE ARCHITECT PRIOR TO OPENING ANY PLANTING PITS OR BEDS.
- C. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- D. THE CONTRACTOR SHALL PREPARE A CULTIVATED BED AROUND EACH GROUP OF SHRUBS &/OR GROUND COVER BEDS, THE SAME SHAPE AND SIZE AS SHOWN ON THE PLAN. THE ENTIRE BED SHALL BE MULCHED. A CRISP, WELL DEFINED EDGE SHALL BE DEVELOPED BETWEEN ANY SHRUB &/OR GROUND COVER BED AND THE ADJOINING LAWN AREA.
- E. ONLY NURSERY GROWN PLANT MATERIAL SHALL BE USED. COLLECTED PLANT MATERIAL IS NOT ACCEPTABLE AND WILL BE REJECTED BY THE LANDSCAPE ARCHITECT. MATERIAL SHALL BE OF HIGH QUALITY, EXCELLENT FORM AND TO THE SIZES AND SPECIFICATIONS INDICATED HEREIN. MATERIAL THAT DOES NOT MEET THE SPECIFICATIONS SHALL BE REJECTED.
- F. UNLESS OTHERWISE INDICATED, NATURAL DYE-FREE SHREDDED BARK MULCH SHALL BE USED IN ALL SHRUB AND/OR GROUND COVER BEDS AND AROUND ALL TREES PLANTED WITHIN OR BEYOND THE CONFINES OF THE PLANTING BEDS. CONTRACTOR SHALL PROVIDE MULCH SAMPLE FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO CONSTRUCTION.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE REMOVAL OF ALL BINDING CORDS AND ROPES FROM THE TRUNKS OF ALL SHADE AND ORNAMENTAL TREES IMMEDIATELY AFTER PLANTING. IDENTIFICATION TAGS AND RIBBONS SHALL BE REMOVED FROM ALL PLANT MATERIAL AT THE TIME OF PLANTING. TREE BASKETS SHALL BE CUT FROM THE TOP 1/3 OF THE ROOT BALL PRIOR TO PLANTING.
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LANDSCAPE LEGEND



LANDSCAPE KEYNOTES

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2. RIVER STONE EDGING. SEE LANDSCAPE LEGEND BELOW AND DETAIL G & H/L501

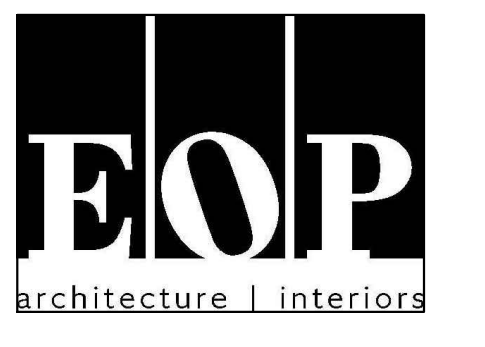
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BN	Betula nigra 'Dura Heat'	Dura Heat River Birch	2 1/2"	28" min	12 - 14'	N/A	max 3	B&B; 5' clear trunk
LS	Liquidambar styraciflua 'slender silhouette'	Columnar sweetgum	2 1/2"	28" min	12 - 14'	N/A	1	B&B; 5' clear trunk
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NOTE: PLANT VARIETY SUBSTITUTIONS ARE NOT PERMITTED WITHOUT APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.

NEW FCPS COMBINED CTE SCHOOL BG# 22-167

100 Midland Ave.
Lexington, KY 40508
BID DOCUMENTS

#	DATE	DESCRIPTION
4	10/28/22	Revision 4



PROJECT TEAM

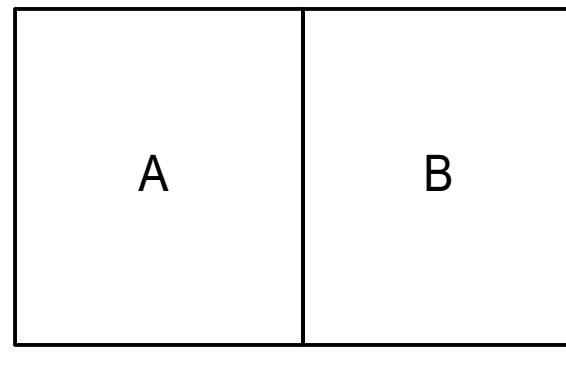
EOP Architects
201 W. Short Street, Suite 700
Lexington, KY 40507
p. 859-231-7538 | f. 859-255-4380
www.eopa.com

Poage Engineers & Associates Inc
Structural Engineers
880 Sparta Ct. Ste. 200
Lexington, KY 40504

Shrout Tate Wilson Consulting Engineers
MEP Engineers
628 Winchester Rd.
Lexington, KY 40505

Element Design, PLLC.
366 S. Broadway
Lexington, KY 40508

KEYPLAN

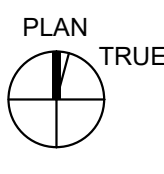


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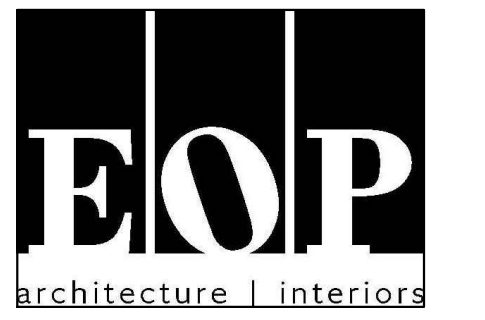
Job Number 2150
 Drawn By BLM/EPM
 Checked By BJM
 Date 09/28/2022



LANDSCAPE PLANTING PLAN - EAST

L500-B

REVISIONS	
#	DATE
4	10/28/22
	Revision 4



PROJECT TEAM

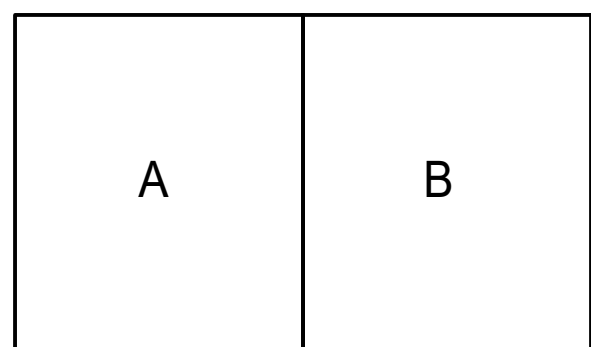
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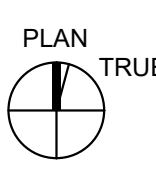


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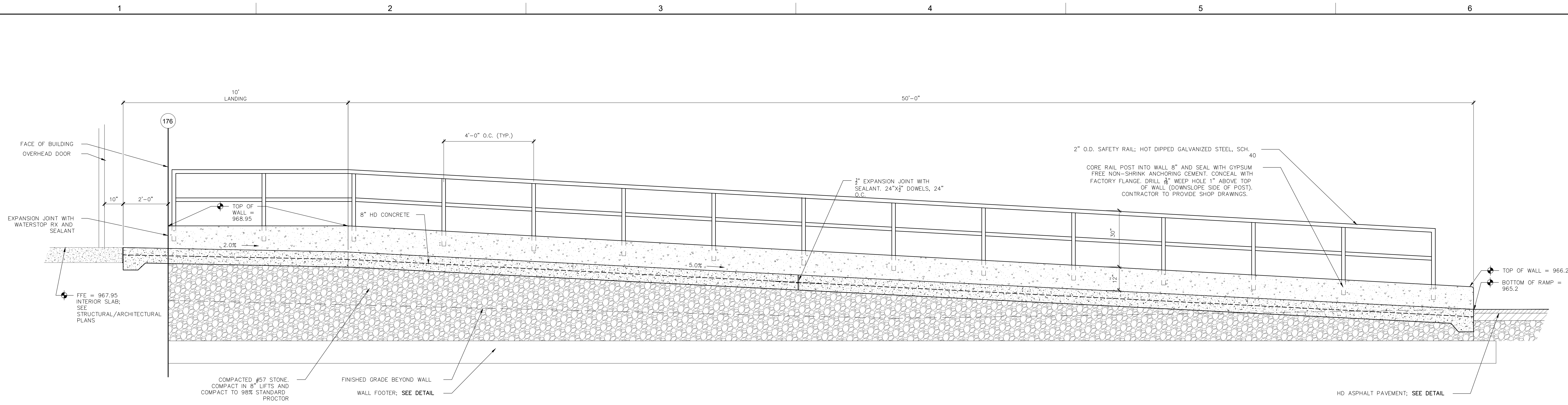
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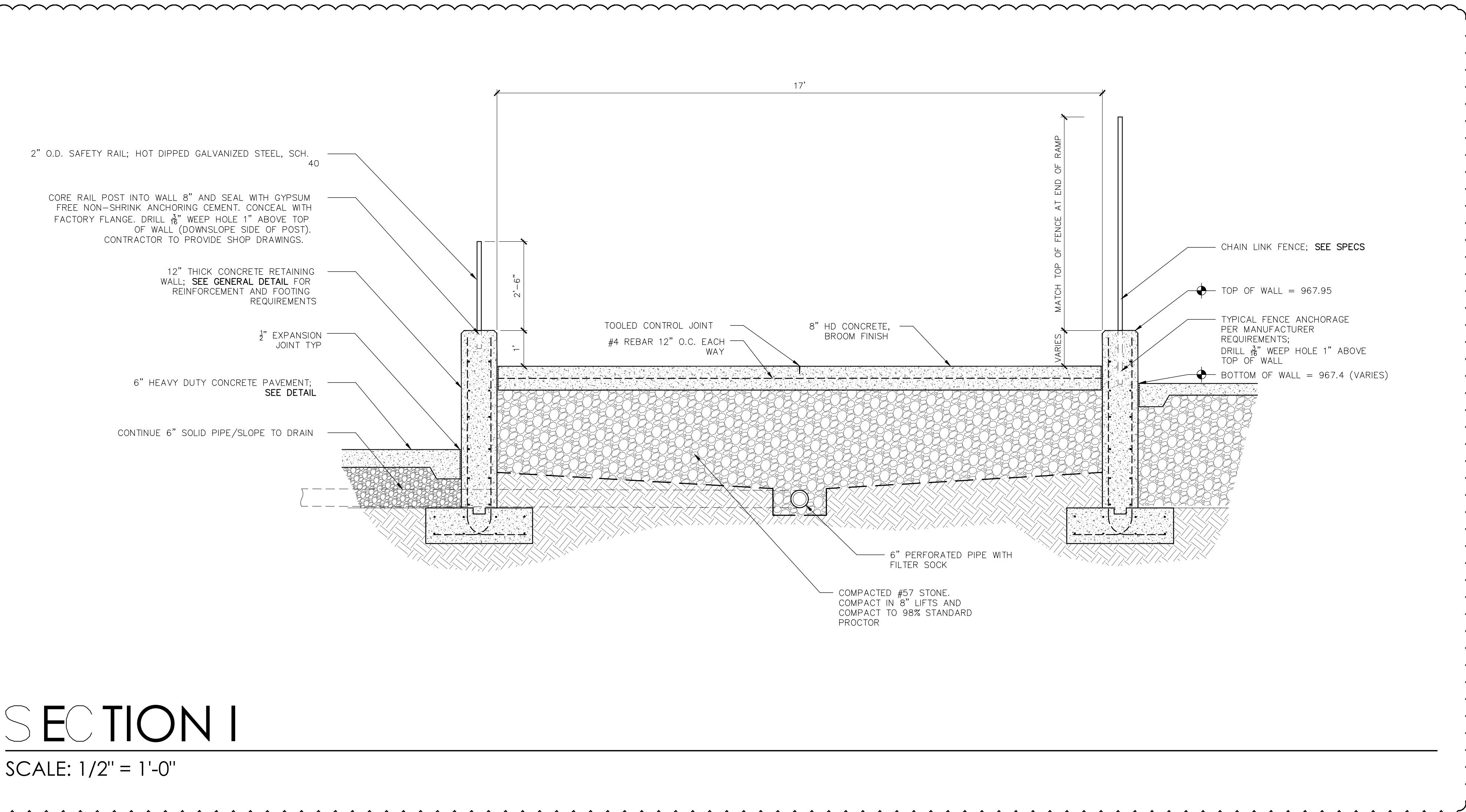


SITE SECTIONS

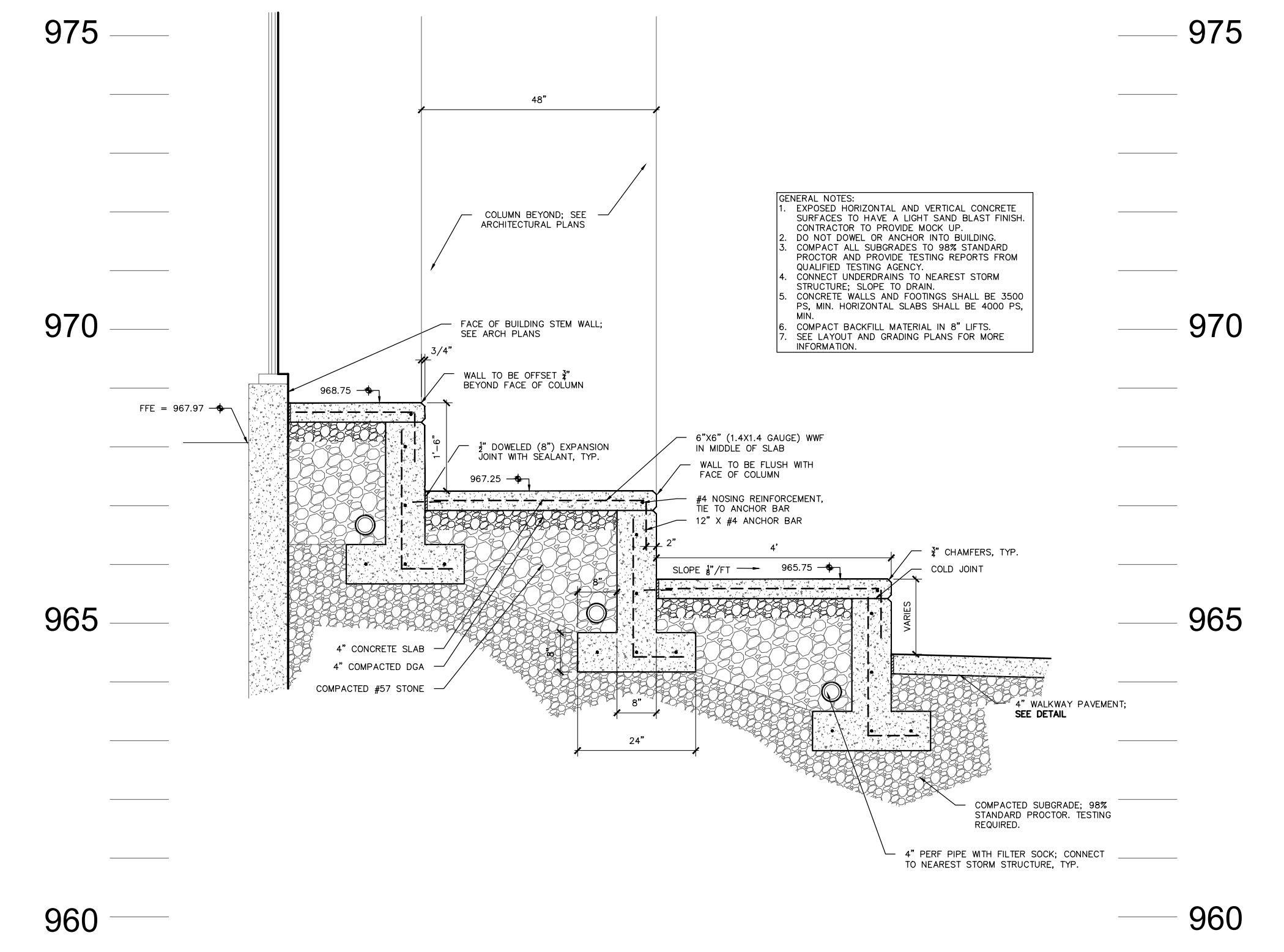
L702



SECTION H
SCALE: 1/2" = 1'-0"

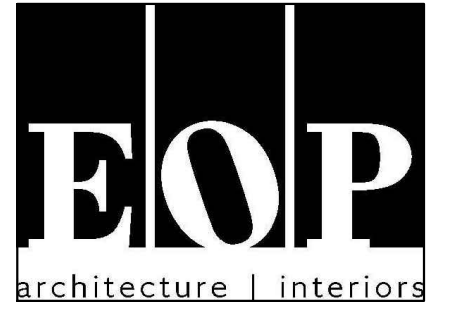


SECTION I
SCALE: 1/2" = 1'-0"



SECTION J
SCALE: 1/2" = 1'-0"

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/22	Revision 4



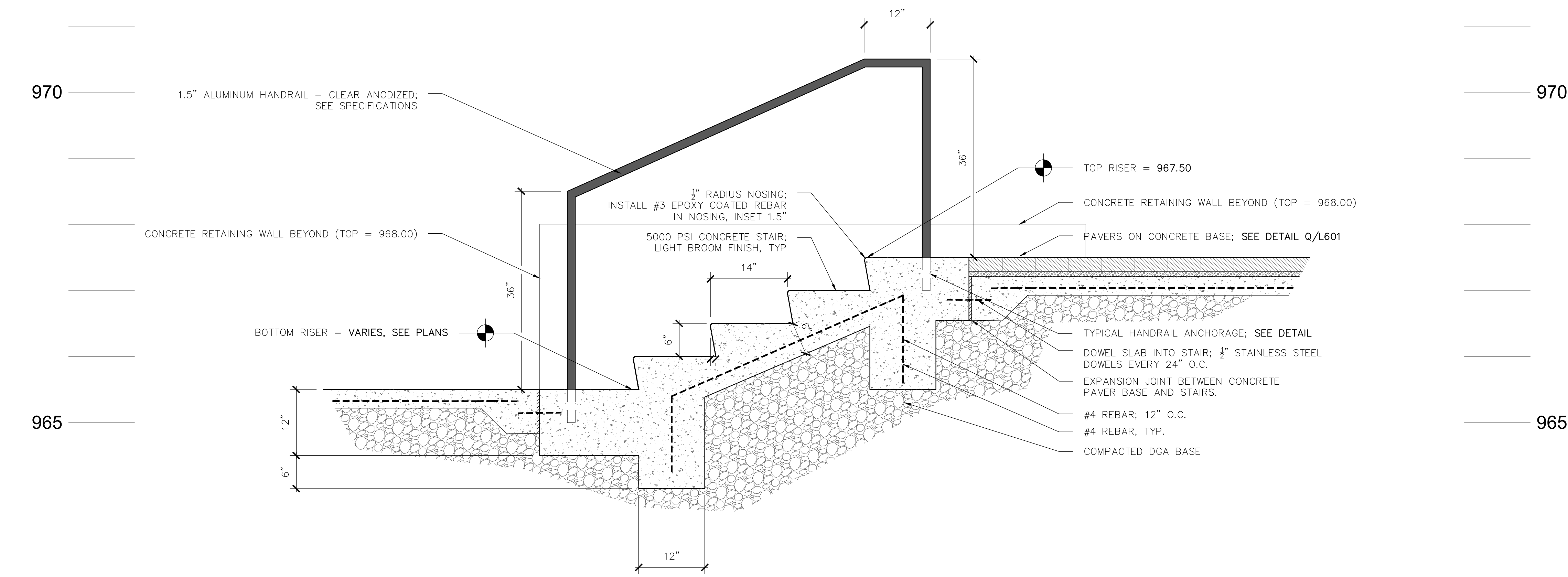
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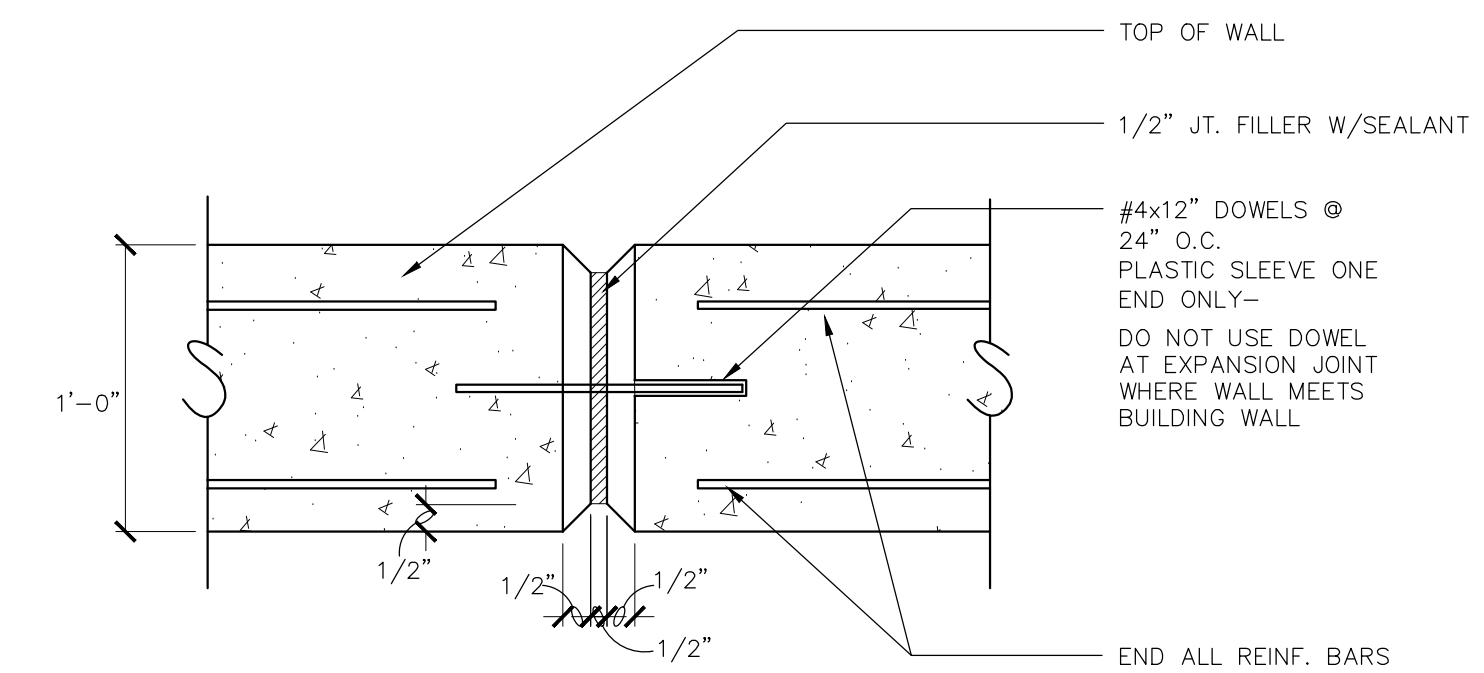
Shrout Tate Wilson Consulting Engineers
MEP Engineers
628 Winchester Rd.
Lexington, KY 40505

Element Design, PLLC.
366 S. Broadway
Lexington, KY 40508



SECTION L

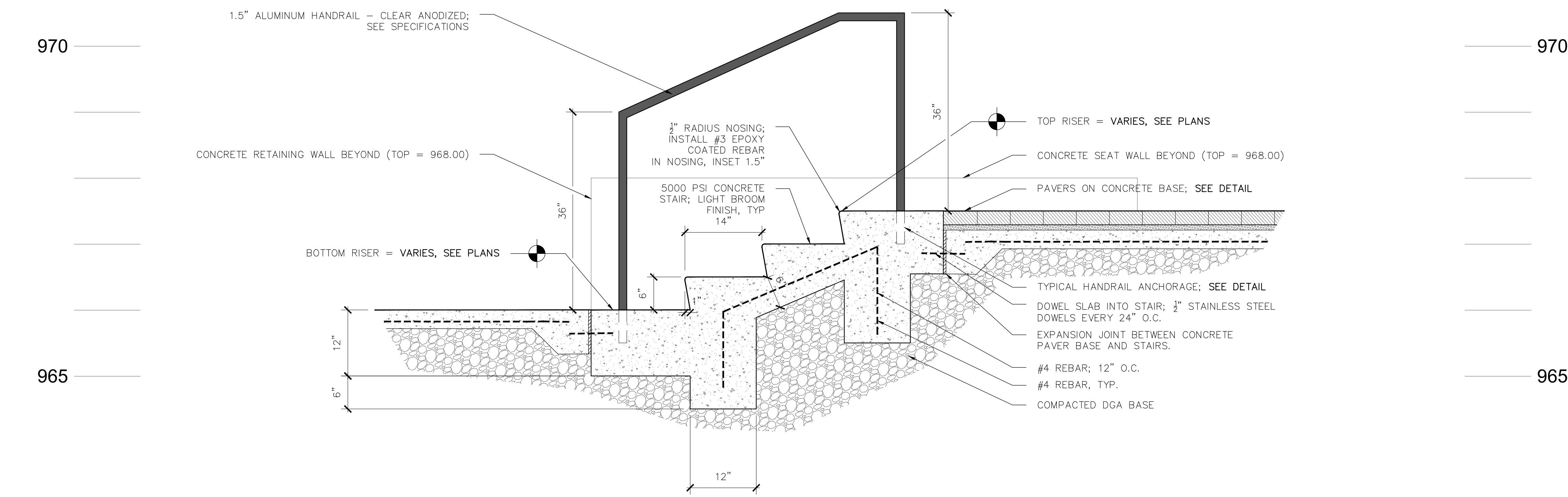
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CONCRETE WALL EXPANSION JOINT

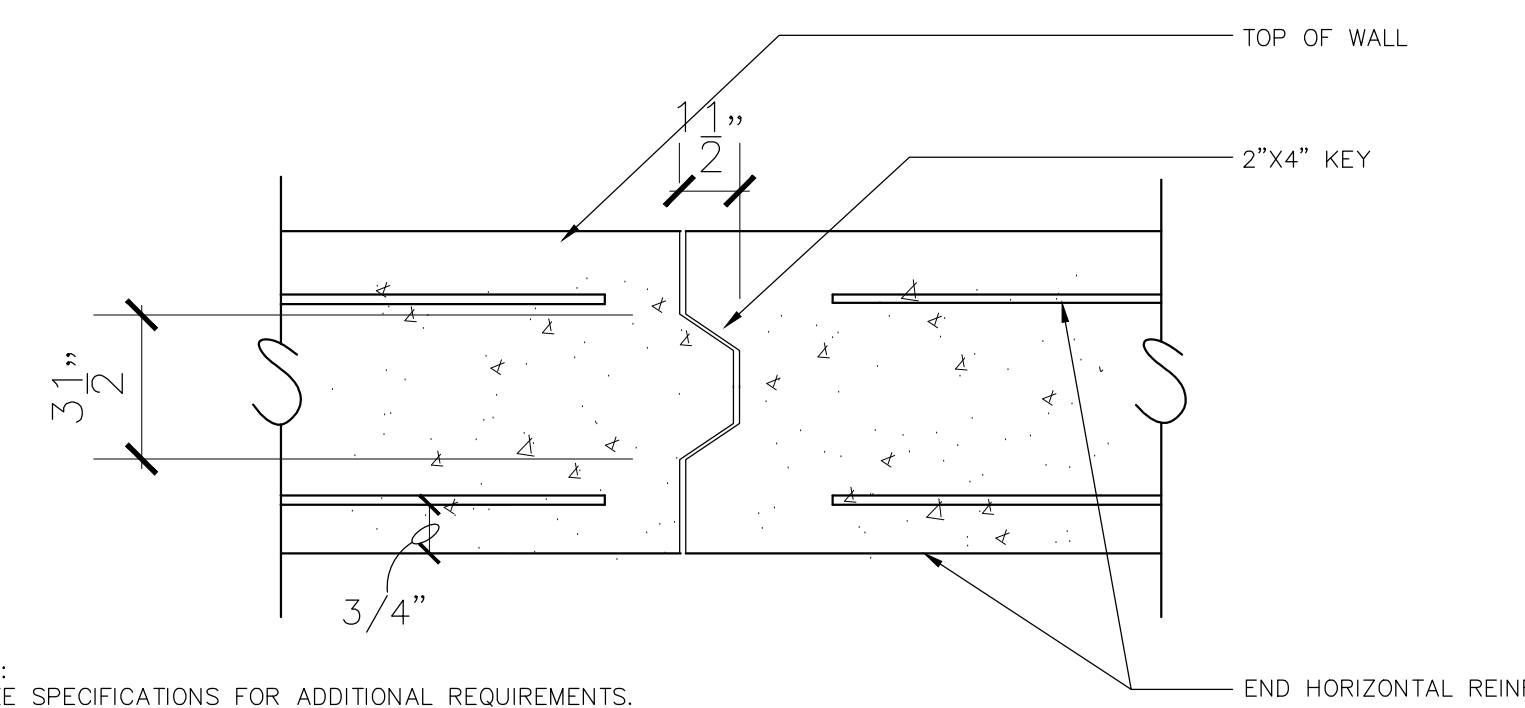
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(A)



SECTION M

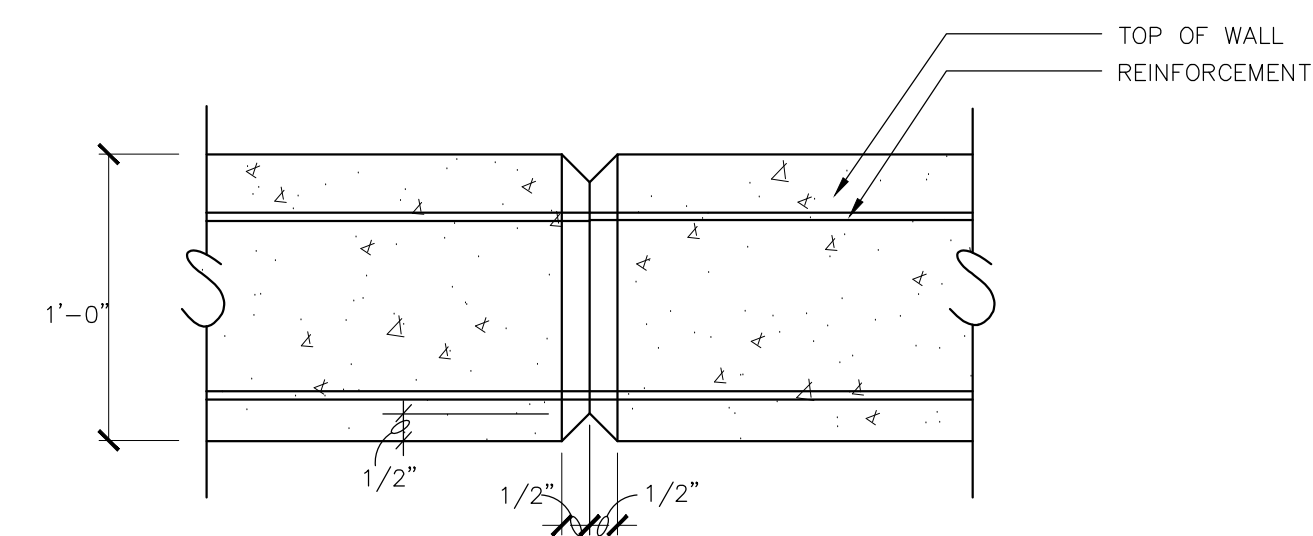
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CONCRETE WALL CONSTRUCTION JOINT

N.T.S.

(B)

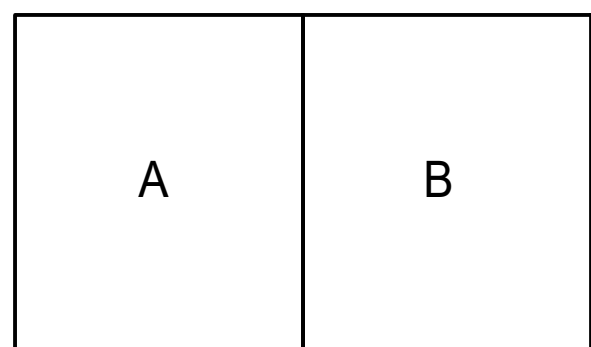


CONCRETE WALL CONTROL JOINT

N.T.S.

(C)

KEYPLAN

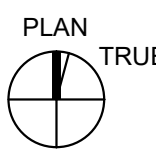


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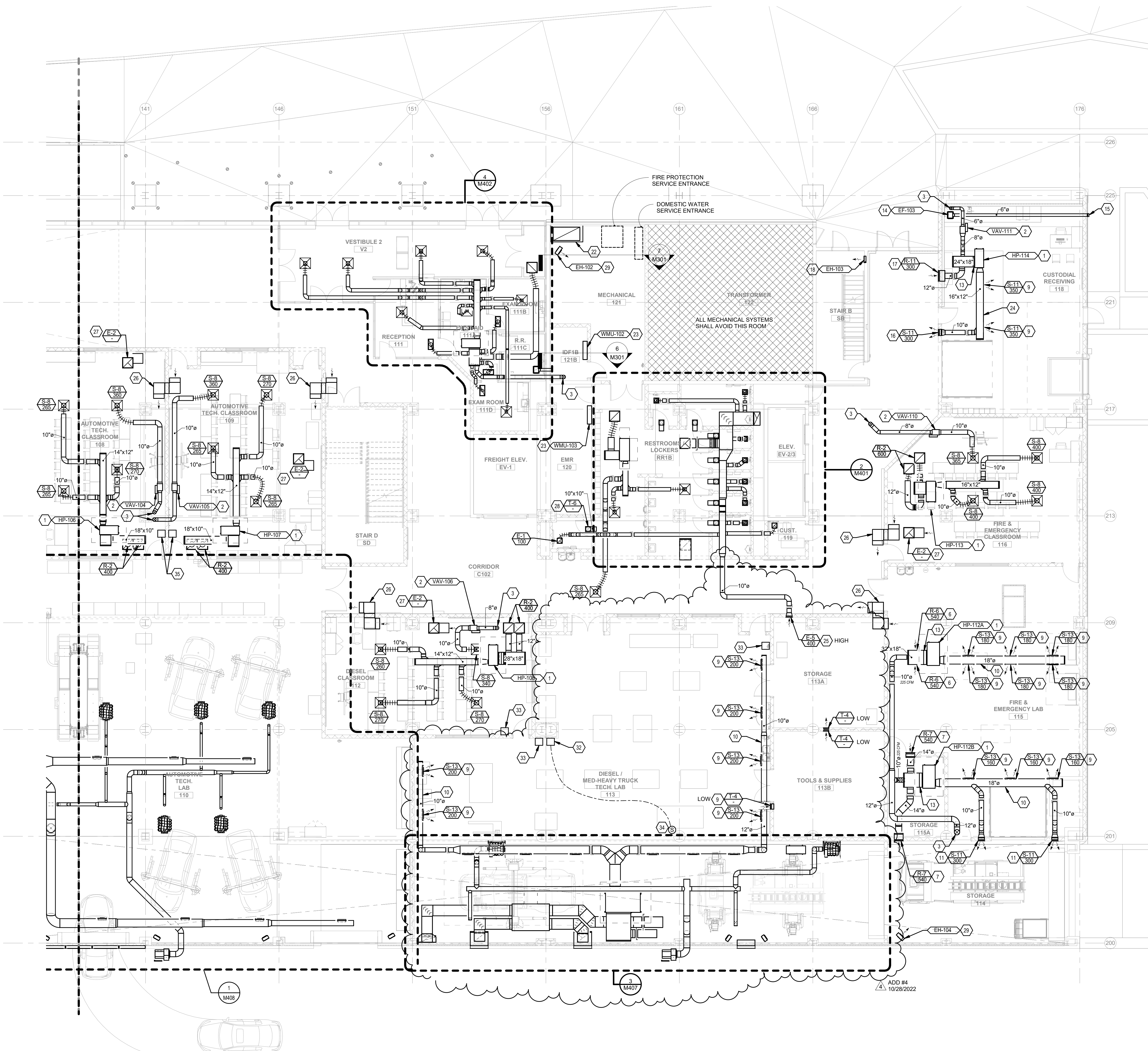
SITE SECTIONS

GENERAL NOTES

- REFER TO DRAWING M001 FOR MECHANICAL GENERAL NOTES AND LEGEND.
- INTERIOR OF ALL RETURN, TRANSFER, AND EXHAUST AIR GRILLES/PLENUMS TO BE PAINTED MATTE BLACK.

SHEET KEYNOTES

- PROVIDE COMPACT HORIZONTAL WATER-SOURCE HEAT PUMP UNIT WHERE INDICATED. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS. UNIT ARE TO BE HELD AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE. INSTALLATION MAY REQUIRE INSTALLING UNITS HIGH BETWEEN JOISTS AND BEAMS. CAREFUL COORDINATION WITH ALL TRADES WILL BE REQUIRED.
- PROVIDE A SINGLE DUCT VARIABLE AIR VOLUME (VAV) BOX WHERE INDICATED FOR OUTSIDE AIR DEMAND CONTROL VENTILATION. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- ROUTE OUTSIDE AIR DUCT UP TO SECOND FLOOR. REFER TO SHEET M102b - SECOND FLOOR PLAN B - HVAC FOR CONTINUATION.
- NOT USED. ADD #4 10/28/2022
- NOT USED.
- PROVIDE A DUCT MOUNTED RETURN AIR GRILLE WHERE INDICATED. REFER TO AIR DEVICE SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- PROVIDE A SIDE WALL SURFACE MOUNTED RETURN AIR GRILLE WHERE INDICATED. INSTALL RETURN AIR GRILLE AT 8'-0" A.F.F. REFER TO AIR DEVICE SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- NOT USED. ADD #4 10/28/2022
- PROVIDE A DUCT MOUNTED SUPPLY AIR DIFFUSER. REFER TO AIR DEVICE SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- ALL EXPOSED DUCT SHALL BE DOUBLE WALL SPIRAL. DUCT SHALL BE GALVANIZED FINISH UNPAINTED.
- PROVIDE SIDE WALL SURFACE MOUNTED SUPPLY AIR GRILLE WHERE INDICATED. INSTALL GRILLE AT 9'-0" A.F.F. REFER TO AIR DEVICE SCHEDULE FOR SIZE AND ADDITIONAL REQUIREMENTS.
- NOT USED. ADD #4 10/28/2022
- UNIT SHALL UTILIZE FACTORY FILTER RACK.
- PROVIDE A CEILING MOUNTED EXHAUST FAN WHERE INDICATED. REFER TO EXHAUST FAN SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE WALL CAP FOR EXHAUST FAN.
- PROVIDE SIDE WALL SURFACE MOUNTED SUPPLY AIR GRILLE AT 8'-0" A.F.F. REFER TO AIR DEVICE SCHEDULE FOR SIZE AND ADDITIONAL REQUIREMENTS.
- PROVIDE SIDE WALL SURFACE MOUNTED RETURN AIR GRILLE AT 8'-0" A.F.F. REFER TO AIR DEVICE SCHEDULE FOR SIZE AND ADDITIONAL REQUIREMENTS.
- PROVIDE SEMI-RECESSED ELECTRIC WALL HEATER WHERE INDICATED. INSTALL HEATER 12" A.F.F. REFER TO ELECTRIC HEATER SCHEDULE FOR SIZE AND ADDITIONAL REQUIREMENTS.
- NOT USED.
- NOT USED. ADD #4 10/28/2022
- NOT USED.
- PROVIDE NEW INTAKE PLENUM AND DUCT AS INDICATED AND ROUTE UP TO SECOND FLOOR. REFER TO ENLARGED MECHANICAL ROOM 210 - HVAC ON SHEET M403 FOR CONTINUATION.
- PROVIDE A WALL MOUNTED MINI-SPLIT UNIT WHERE INDICATED. UNIT SHALL BE INSTALLED AT 8'-0" A.F.F. REFER TO MINI-SPLIT SCHEDULE FOR ADDITIONAL REQUIREMENTS.
- EXPOSED RECTANGULAR DUCT SHALL BE EXTERNALLY INSULATED AND WRAPPED WITH CANVAS FOR FIELD PAINTING.
- PROVIDE A RECTANGULAR BALANCE DAMPER IN EXHAUST DUCT WHERE INDICATED. BALANCE TO 1,050 CFM.
- PROVIDE AN EXHAUST AIR TRANSFER SOUND TRAP WHERE INDICATED. REFER TO AIR DEVICE SCHEDULE AND 2" TRANSFER SOUND TRAP DETAIL. DUCT SHALL BE 24x10.
- PROVIDE AN EXHAUST AIR TRANSFER WHERE INDICATED. REFER TO TRANSFER/RETURN AIR BOOT DETAIL.
- PROVIDE A TRANSFER AIR GRILLE AND DUCT WHERE INDICATED. REFER TO AIR DEVICE SCHEDULE AND TRANSFER/RETURN AIR BOOT DETAIL.
- PROVIDE AN ELECTRIC UNIT HEATER PER MANUFACTURER'S INSTRUCTIONS. INSTALL UNIT HEATER AT 8'-0" A.F.F. REFER TO ELECTRIC HEATER SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- NOT USED. ADD #4 10/28/2022
- NOT USED.
- PROVIDE A GAS MONITORING SYSTEM WHERE INDICATED. GAS MONITORING SYSTEM SHALL MONITOR FOR CARBON MONOXIDE (CO) AND NITROGEN DIOXIDE (NO2). CONTROL SYSTEM SHALL BE SENVA TO UL SERIES WALL DUAL TOXIC GAS SENSOR / CONTROLLER, OR SIMILAR. REFER TO CONTROLS SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE AN AUDIO / VISUAL ALARM WHERE INDICATED. ALARM SHALL BE ACTIVATED BY GAS DETECTION SYSTEM. REFER TO CONTROLS SEQUENCES OF OPERATION FOR ADDITIONAL INFORMATION. AUDIO / VISUAL ALARM SHALL BE SIMILAR TO KELE MODEL AIS ALARM STATION.
- PROVIDE A COMBINATION CO AND NO2 SENSOR AT 48" A.F.F. WHERE INDICATED. ALL CONTROL WIRING SHALL BE CONCEALED IN CONDUIT. ROUTE WIRING TO GAS MONITORING CONTROLLER.
- PROVIDE AN AUDIO / VISUAL ALARM WHERE INDICATED. ALARM SHALL BE ACTIVATED BY GAS DETECTION SYSTEM. REFER TO CONTROLS SEQUENCES OF OPERATION FOR ADDITIONAL INFORMATION. AUDIO / VISUAL ALARM SHALL BE SIMILAR TO KELE MODEL AIS ALARM STATION. AUDIO / VISUAL ALARM SHALL BE TRIGGERED BY GAS DETECTION SYSTEM IN AUTOMOTIVE LAB.

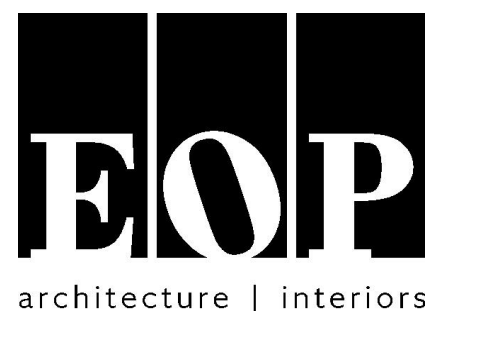


NEW COMBINED CTE SCHOOL

BG# 22-167
100 Midland Ave,
Lexington, KY 40508

BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/2022	ADDENDUM #4



PROJECT TEAM

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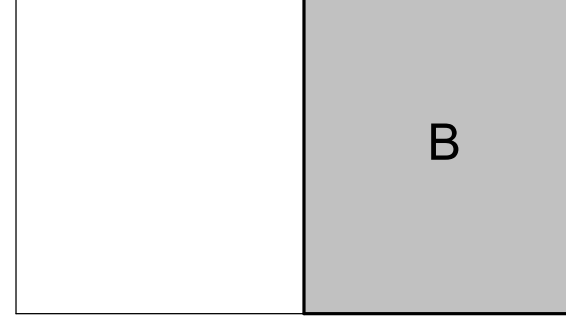


Reitano Design Group
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Calvert - Independent Hardware
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KEYPLAN



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Job Number 2150 PLAN
Drawn By CS / JC TRUE
Checked By RLW
Date 09/28/2022



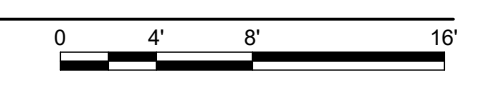
FIRST FLOOR PLAN B - HVAC

ADD #4 10/28/2022

M101b

1 FIRST FLOOR PLAN B - HVAC
SCALE: 1/8" = 1'-0"

10/27/2022 3:47:17 PM

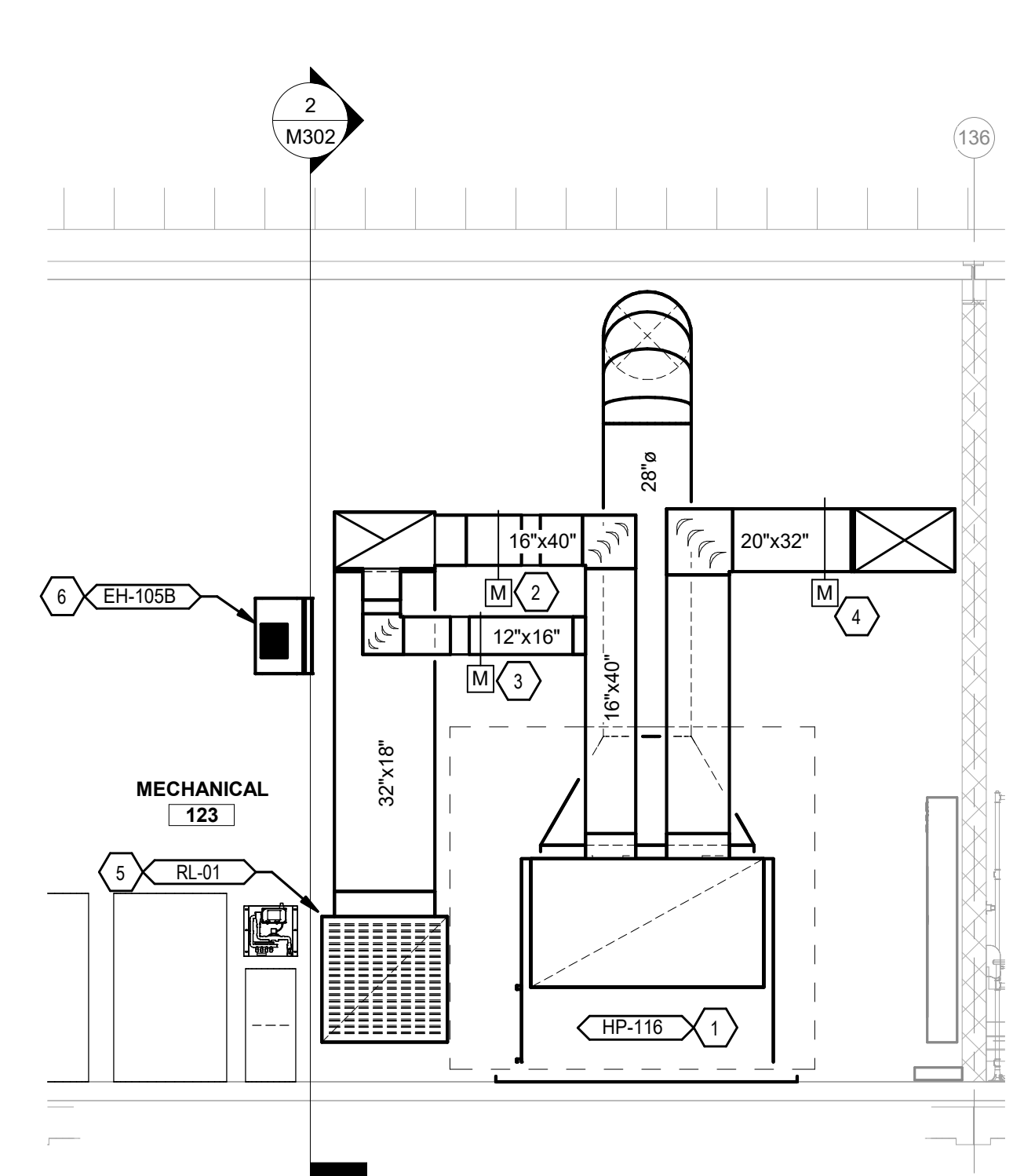


GENERAL NOTES

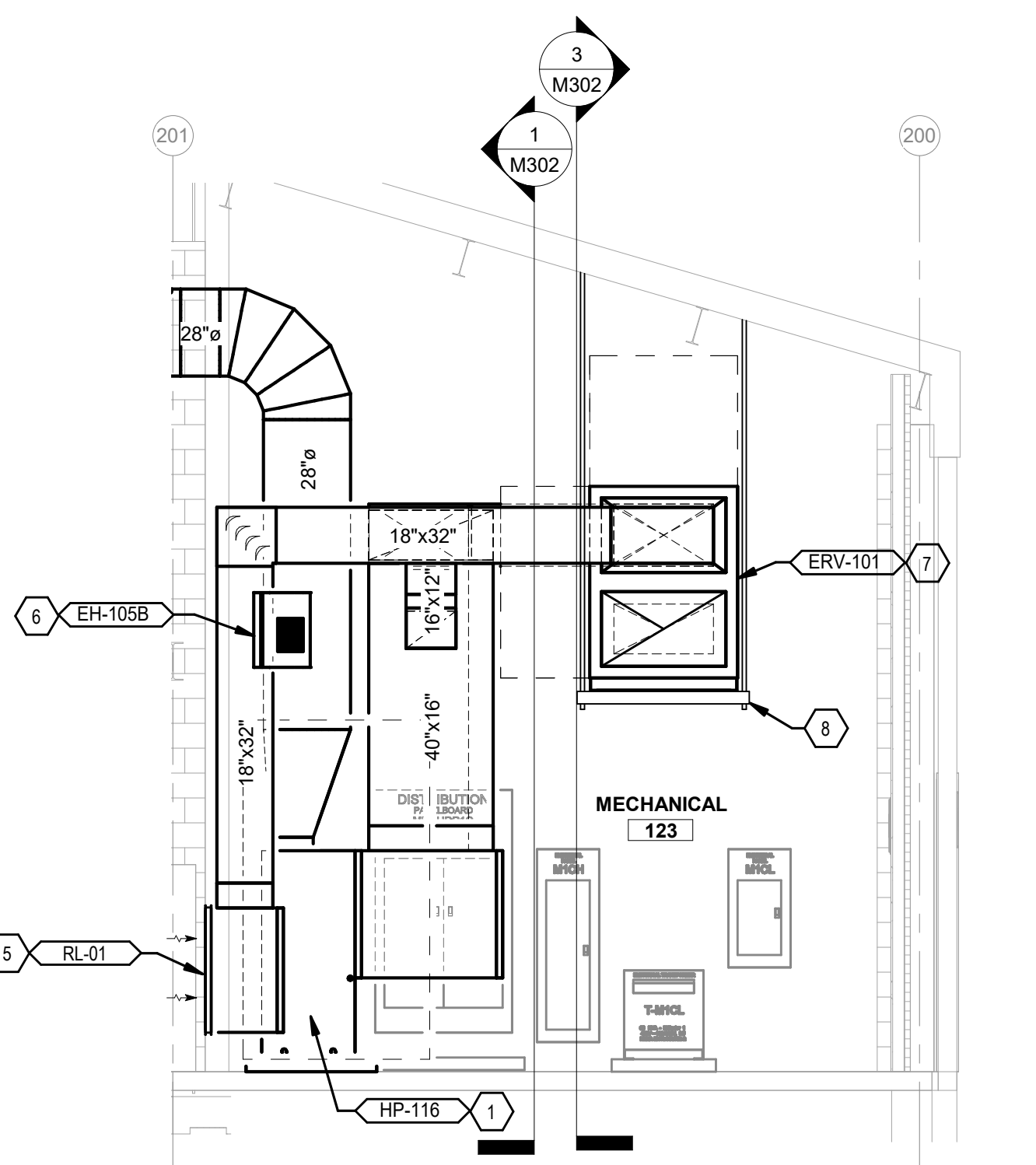
1. REFER TO DRAWING M001 FOR MECHANICAL GENERAL NOTES AND LEGEND.

SHEET KEYNOTES

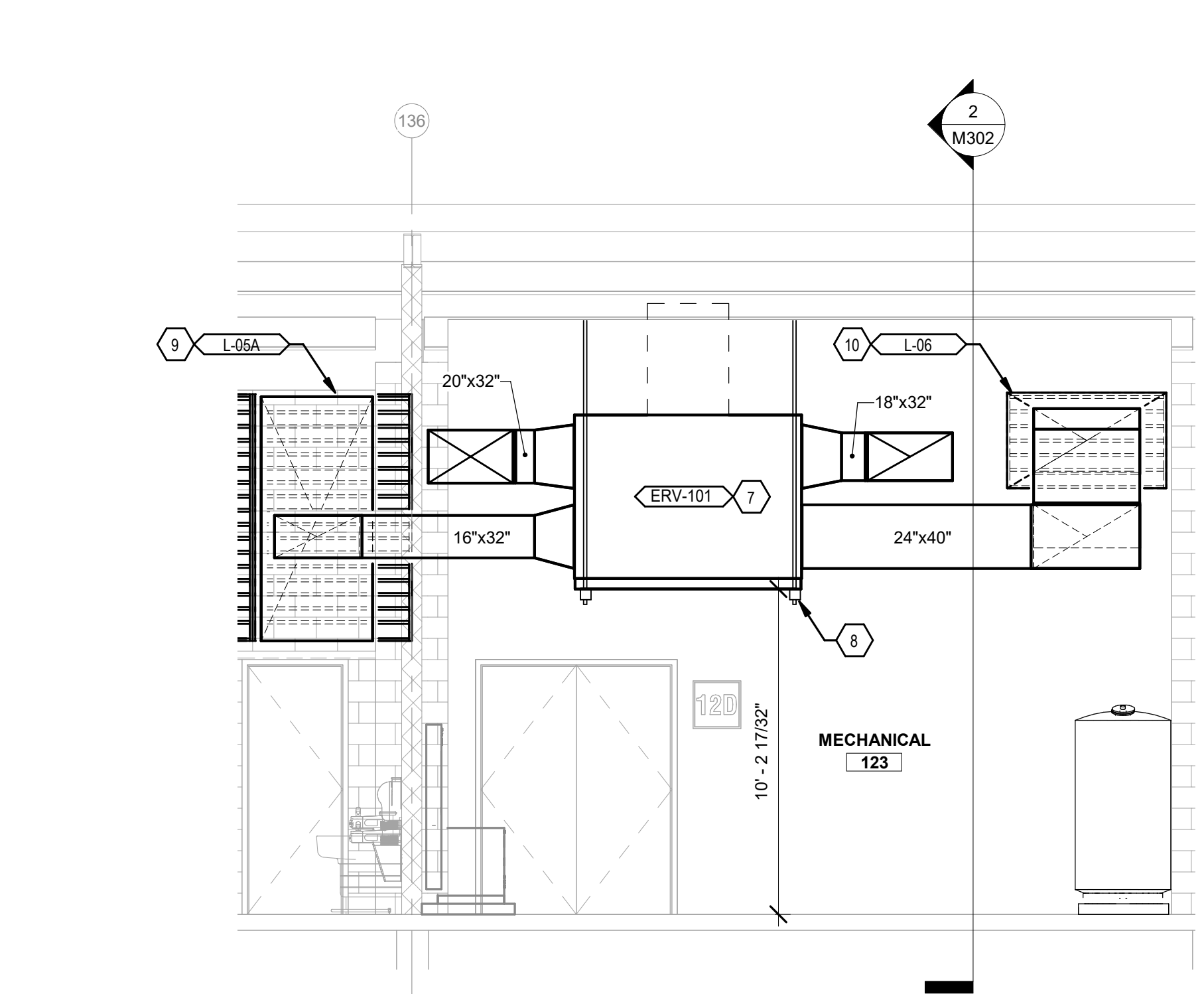
1. PROVIDE AND INSTALL A VERTICAL WATER-SOURCE HEAT PUMP UNIT WHERE INDICATED. UNIT SHALL BE INSTALLED ON A 4" HOUSEKEEPING PAD. REFER TO WATER-SOURCE HEAT PUMP SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
2. MOTORIZED DAMPER FOR CONTROL OF RECIRCULATION DURING UNOCCUPIED HOURS. DURING OCCUPIED HOURS THIS DAMPER SHALL BE FULL CLOSED. DURING UNOCCUPIED HOURS THIS DAMPER SHALL BE FULL OPEN TO ALLOW FOR FULL RECIRCULATION.
3. MOTORIZED DAMPER FOR CONTROL OF MINIMUM RETURN AIR FOR HP-116. DURING OCCUPIED HOURS THE DAMPER SHALL BE OPEN AND BALANCED TO 800 CFM (ADJ.) WITH A MANUAL BALANCING DAMPER. DURING UNOCCUPIED HOURS THE DAMPER SHALL BE FULL CLOSED.
4. MOTORIZED DAMPER IN OUTSIDE AIR DUCT. DAMPER SHALL BE FULL OPEN DURING OCCUPIED HOURS, AND FULL CLOSED DURING UNOCCUPIED HOURS.
5. RETURN AIR LOUVER REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
6. PROVIDE AN ELECTRIC UNIT HEATER PER MANUFACTURER'S INSTRUCTIONS. INSTALL HEATER AT 9'-0" A.F.F. REFER TO ELECTRIC HEATER SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
7. PROVIDE AN AIR TO AIR ENERGY RECOVERY VENTILATOR WHERE INDICATED. UNIT SHALL BE SUPPORTED FROM STRUCTURE. UNIT TO BE MOUNTED A MINIMUM OF 10'-0" A.F.F. UNIT SHALL BE FOR SPACE VENTILATION AND EXHAUST FOR AUTOMOTIVE LAB 110. UNIT TO BE ENERGIZED DURING OCCUPIED HOURS AND OFF DURING UNOCCUPIED HOURS.
8. SUPPORT ERV FROM STRUCTURE. PROVIDE UNISTRUT SUPPORT AT ROOF BEAMS THAT SPAN A MINIMUM OF (2) ROOF BEAMS. ENSURE THAT SUPPORTS DO NOT INTERFERE WITH UNIT SERVICE CLEARANCE AND SERVICE ACCESS PANELS.
9. NEW LOUVER REPLACE EXISTING. REFER TO LOUVER SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
10. NEW OUTSIDE AIR INTAKE LOUVER. REFER TO LOUVER SCHEDULE FOR SIZE AND ADDITIONAL REQUIREMENTS.
11. PROVIDE HORIZONTAL WATER-SOURCE HEAT PUMP WHERE INDICATED. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
12. PROVIDE A UTILITY SET VEHICLE EXHAUST FAN ON WALL MOUNTED SUPPORT SYSTEM WHERE INDICATED. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
13. PROVIDE A DUCT MOUNTED EXHAUST AIR GRILLE AT 12" A.F.F. WHERE INDICATED. REFER TO AIR DEVICE SCHEDULE FOR SIZE AND ADDITIONAL REQUIREMENTS.
14. PROVIDE A VEHICLE EXHAUST SYSTEM HOSE REEL PER MANUFACTURER'S INSTRUCTIONS WHERE INDICATED. REFER TO SCHEDULES AND DETAILS.
15. PROVIDE A STATIONARY EXHAUST LOUVER WHERE INDICATED. LOUVER SHALL BE INSTALLED AS HIGH AS POSSIBLE. REFER TO ARCHITECTURAL ELEVATIONS, AND STRUCTURAL DETAILS FOR INSTALLATION. REFER TO LOUVER SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
16. PROVIDE AN AIR TO AIR ENERGY RECOVERY VENTILATOR WHERE INDICATED. UNIT SHALL BE SUPPORTED FROM STRUCTURE. PROVIDE UNISTRUT SUPPORTS THAT SPAN A MINIMUM OF (2) ROOF BEAMS TO SUPPORT UNIT. UNIT TO BE MOUNTED A MINIMUM OF 15'-0" A.F.F. UNIT SHALL BE FOR SPACE VENTILATION AND EXHAUST FOR DIESEL LAB 113. UNIT TO BE ENERGIZED DURING OCCUPIED HOURS AND OFF DURING UNOCCUPIED HOURS.



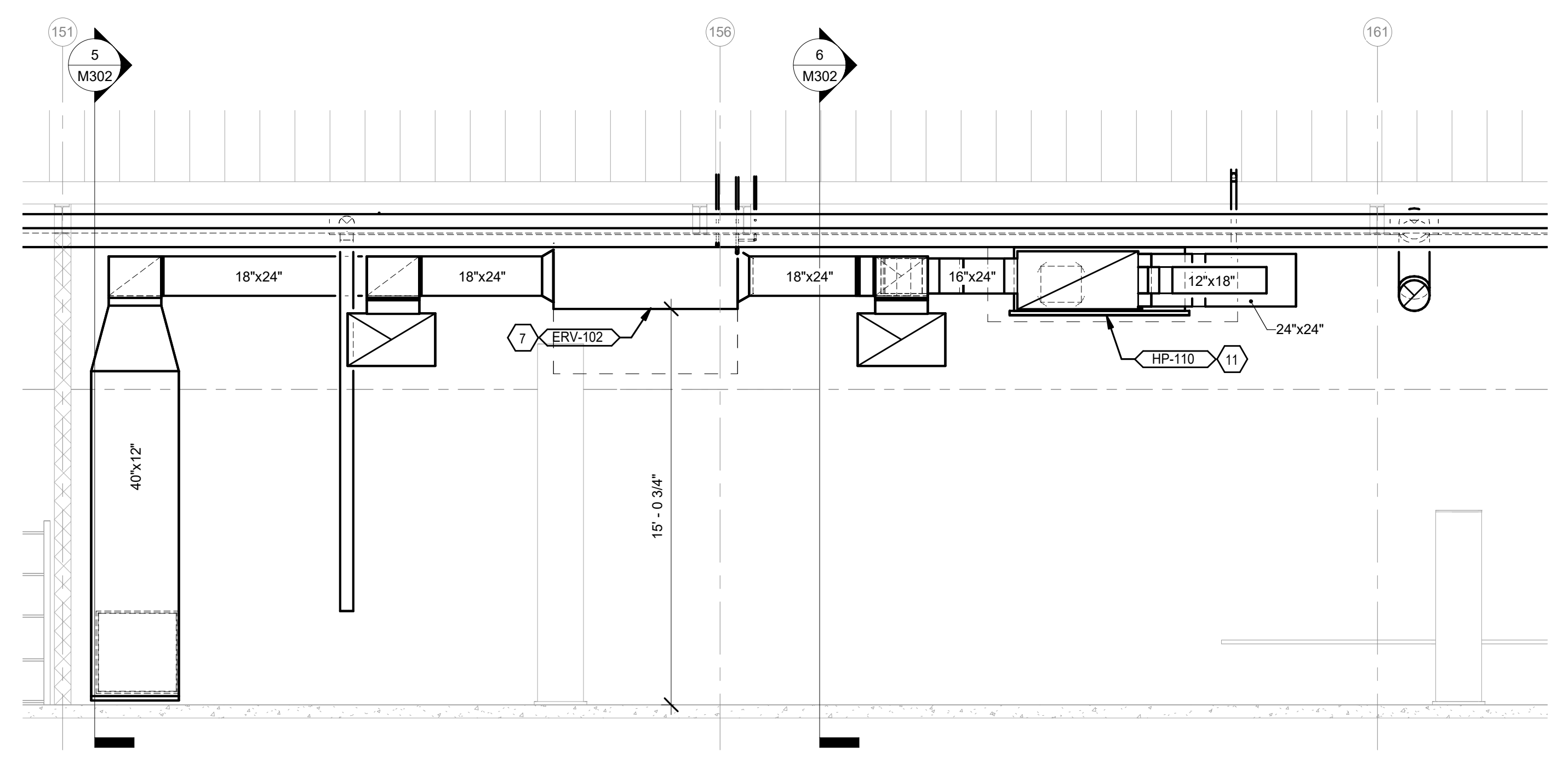
1 SECTION 1 - HP-116 - HVAC
SCALE: 1/4" = 1'-0"



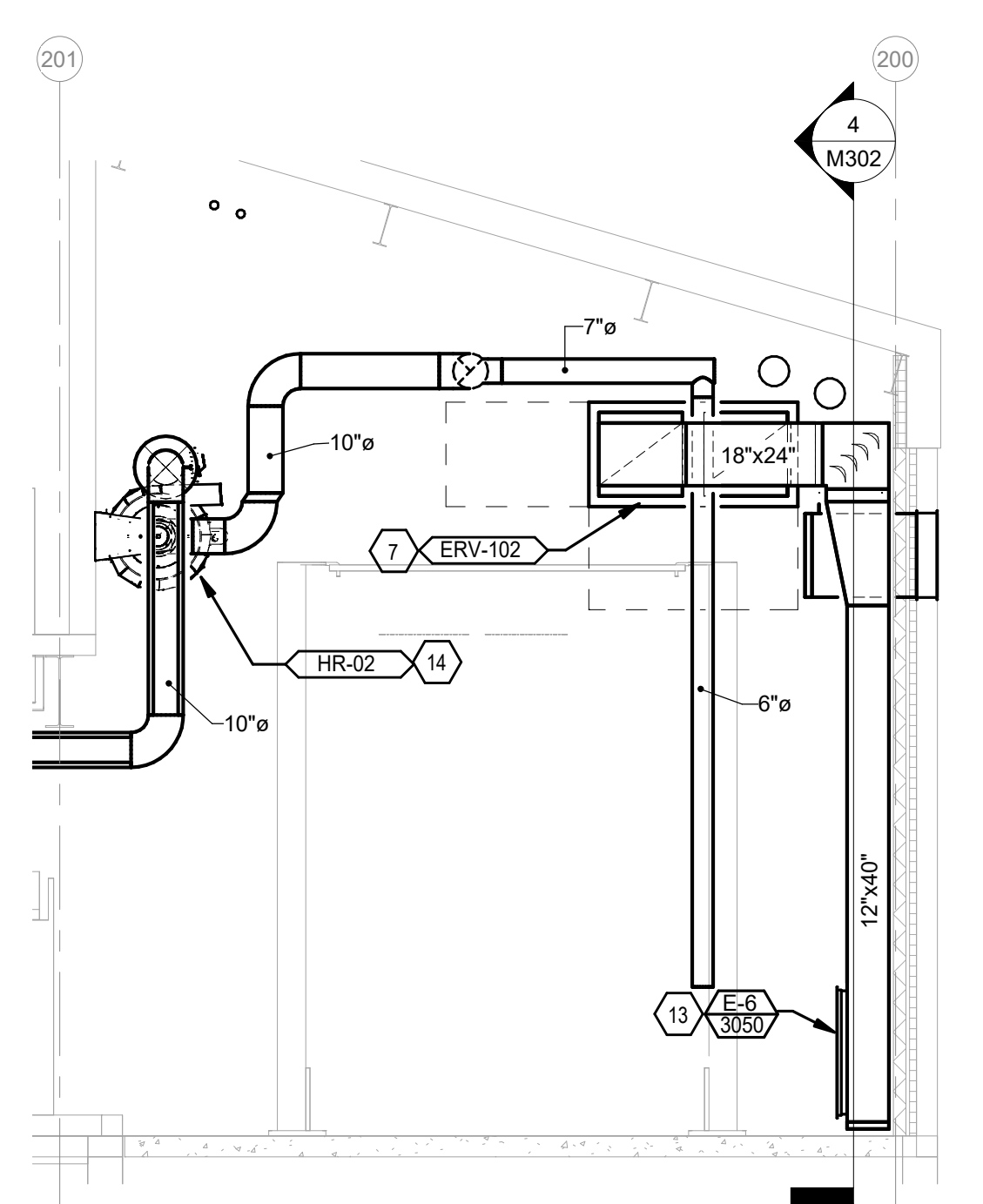
2 SECTION 2 - HP-116 - HVAC
SCALE: 1/4" = 1'-0"



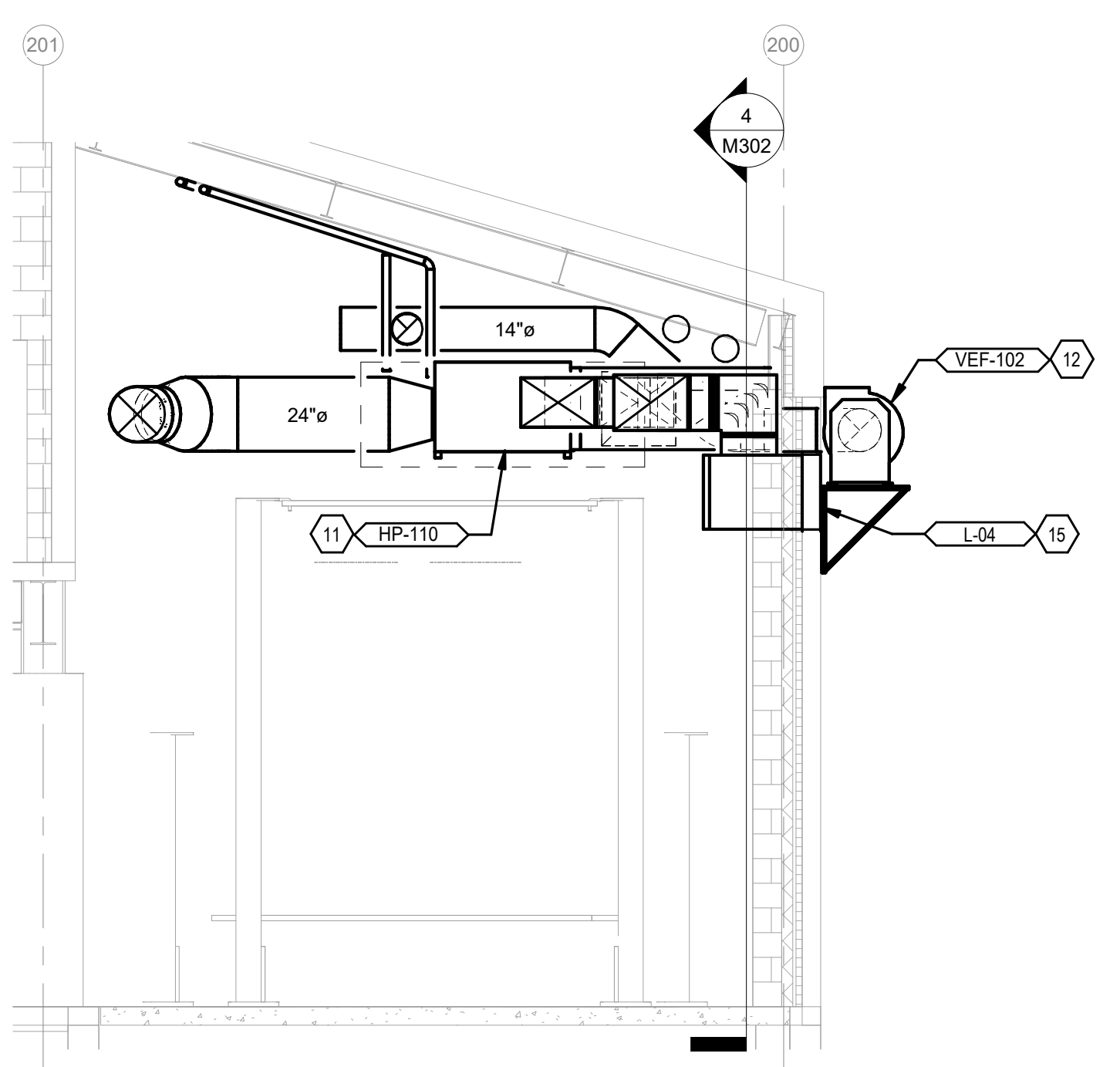
3 SECTION 3 - ERV-101 - HVAC
SCALE: 1/4" = 1'-0"



4 DIESEL ENGINE LAB 113 SECTION 1 - HVAC
SCALE: 1/4" = 1'-0"



5 DIESEL ENGINE LAB 113 SECTION 2 - HVAC
SCALE: 1/4" = 1'-0"



6 DIESEL ENGINE LAB 113 SECTION 3 - HVAC
SCALE: 1/4" = 1'-0"

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BG# 22-167

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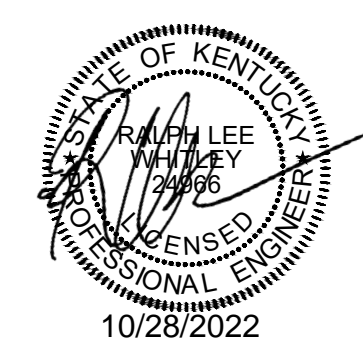
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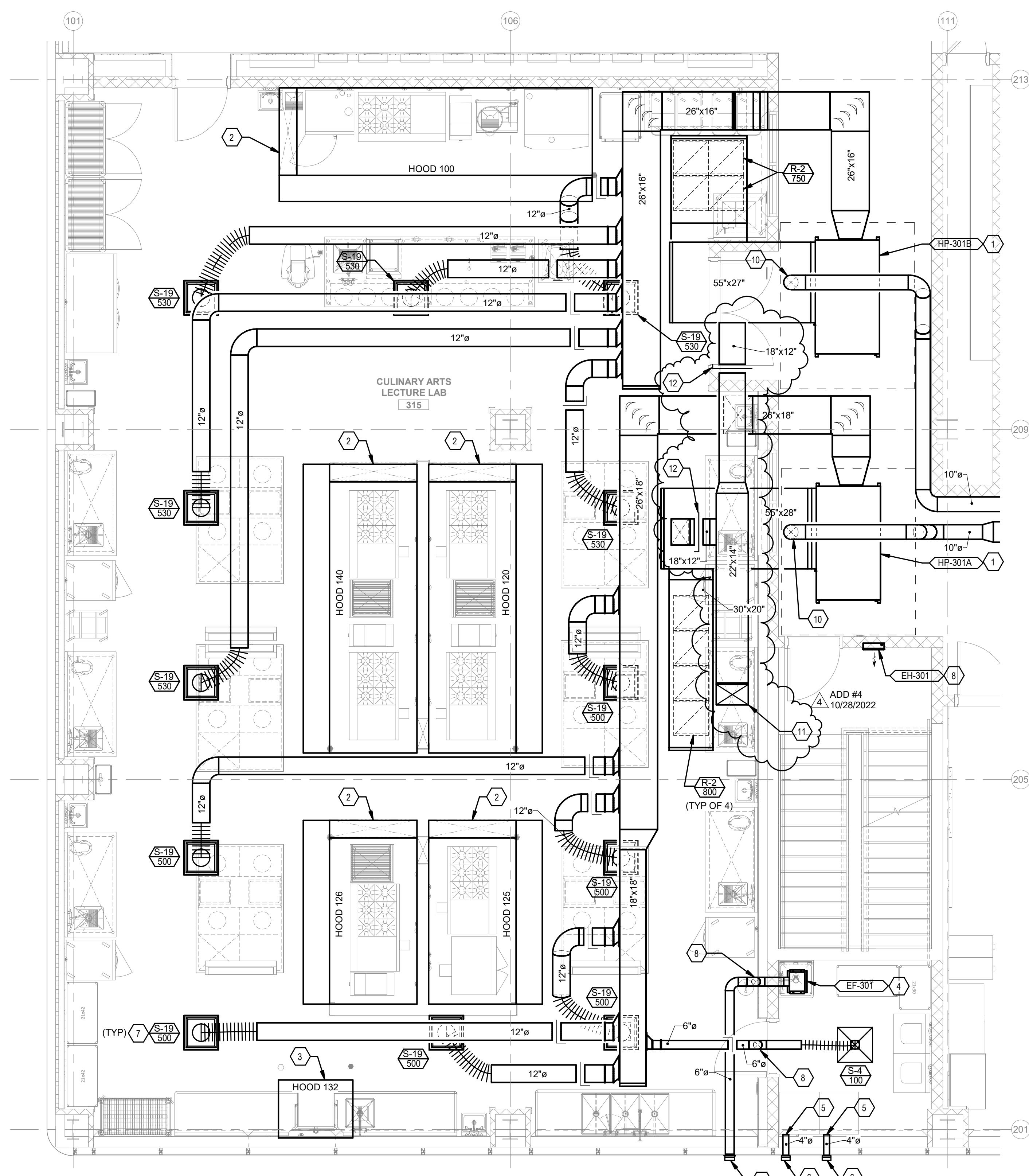
Job Number	2150	PLAN	TRUE
Drawn By	JBC		
Checked By	RLW		
Date	09/28/2022		



MECHANICAL SECTIONS

ADD #4
10/28/2022

M302



1 ENLARGED CULINARY ARTS LECTURE LAB 315 - HVAC
SCALE: 1/4" = 1'-0"

GENERAL NOTES

- REFER TO DRAWING M001 FOR MECHANICAL GENERAL NOTES AND LEGEND.
- INTERIOR OF ALL RETURN, TRANSFER, AND EXHAUST AIR GRILLES/PLENUMS TO BE PAINTED MATTE BLACK.

SHEET KEYNOTES

- PROVIDE HORIZONTAL WATER-SOURCE HEAT PUMP UNIT WHERE INDICATED. HORIZONTAL UNITS MOUNTED ABOVE CEILING SHALL BE INSTALLED NO MORE THAN 2'-0" ABOVE CEILING SYSTEM. WSP UNITS SHALL NOT BE INSTALLED ABOVE CABLE TRAY OR PIPING. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- KITCHEN HOOD SYSTEM INCLUDING HOOD, EXHAUST FANS, MAKE-UP AIR UNITS, AND ALL ASSOCIATED DUCTS AND CONTROLS SHALL BE BY OTHERS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH KITCHEN EQUIPMENT PROVIDER / INSTALLER, TO INSTALL COMPLETE INSTALLATION OF HVAC SYSTEM.
- DISHWASHER HOOD SYSTEM INCLUDING HOOD, EXHAUST FANS, AND ALL ASSOCIATED DUCTS AND CONTROLS SHALL BE BY OTHERS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH KITCHEN EQUIPMENT PROVIDER / INSTALLER, TO INSTALL COMPLETE INSTALLATION OF HVAC SYSTEM.
- PROVIDE A CEILING MOUNTED EXHAUST FAN WHERE INDICATED. REFER TO EXHAUST FAN SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE A 4" Ø DRYER DUCT CONNECTION AND DUCT THRU WALL AT 6" A.F.F. WHERE INDICATED. SEAL WALL PENETRATION WEATHER-TIGHT.
- PROVIDE A DRYER VENT WALL CAP. COLOR SHALL BE BY ARCHITECT.
- PROVIDE A PERFORATED SUPPLY AIR DIFFUSER WHERE INDICATED. REFER TO AIR DEVICE SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- ROUTE 6" DUCT IN SOFFIT AS NECESSARY TO INSTALL AS SHOWN.
- PROVIDE WALL CAP FOR EXHAUST FAN AS INDICATED.
- CONNECT OUTSIDE AIR DUCT TO RETURN AIR DUCT WHERE INDICATED.
- ROUTE 22"x14" MAKEUP AIR DUCT UP TO ROOFTOP IN DUCT CLOSET ABOVE. REFER TO M105a FOR CONTINUATION. COORDINATION WITH KITCHEN EQUIPMENT PROVIDER AND HOOD INSTALLER WILL BE REQUIRED. REFER TO ALL FOOD SERVICE DRAWINGS.
- BALANCE MANUAL DAMPER TO 1,300 CFM AND CONNECT 18"x12" DUCT TO RETURN OF HEAT PUMP AS INDICATED.

AIR BALANCE SCHEDULE			
HOOD MARK	HOOD EXHAUST CFM	HOOD MAKE-UP CFM	REQUIRED MAKE-UP FROM OTHER SOURCES CFM
H-100	4,038	3,432	606
H-120	3,642	3,096	546
H-140	3,642	3,096	546
H-126	2,375	2,019	356
H-125	2,138	1,817	321
H-132	600	0	600
TOTALS	16,435	13,460	2,975
MAKEUP AIR PROVIDED BY MAU-101			2,600
NET NEGATIVE			375

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100 Midland Ave,
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**SHROUT
TATE
MECHANICAL AND
ELECTRICAL ENGINEERS
WILSON**
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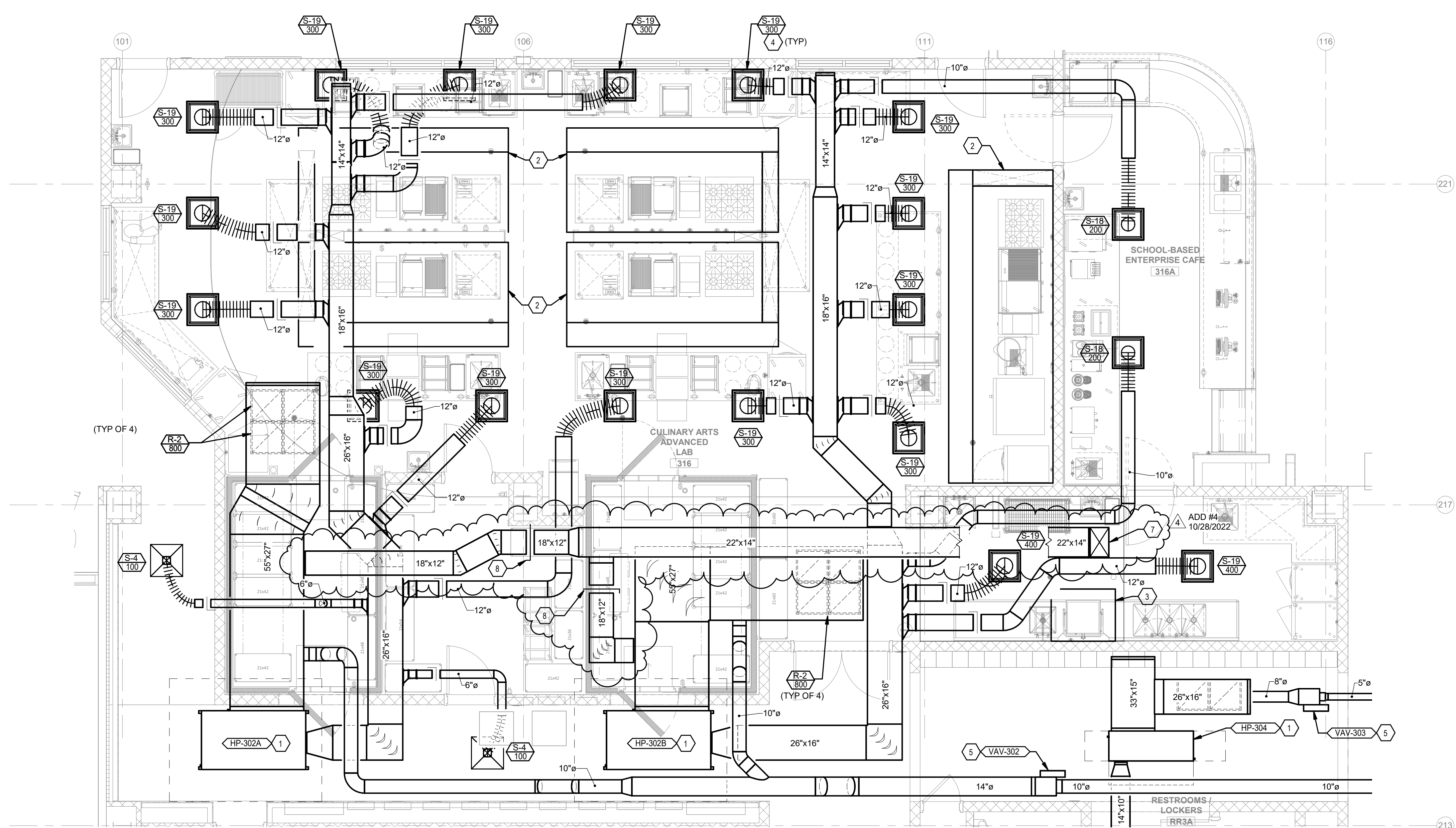
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Job Number 2150 PLAN
Drawn By CS / JC TRUE
Checked By RLW
Date 09/28/2022



**ENLARGED
MECHANICAL PLANS**
ADD #4
10/28/2022

M404



1 ENLARGED ADVANCED CULINARY ARTS LAB 316 - HVAC
SCALE: 1/4" = 1'-0"

GENERAL NOTES

- REFER TO DRAWING M001 FOR MECHANICAL GENERAL NOTES AND LEGEND.
- INTERIOR OF ALL RETURN, TRANSFER, AND EXHAUST AIR GRILLES/PLENUMS TO BE PAINTED MATTE BLACK.

SHEET KEYNOTES

- PROVIDE HORIZONTAL WATER-SOURCE HEAT PUMP UNIT WHERE INDICATED. HORIZONTAL UNITS MOUNTED ABOVE CEILING SHALL BE INSTALLED NO MORE THAN 2'-0" ABOVE CEILING SYSTEM. WSPH UNITS SHALL NOT BE INSTALLED ABOVE CABLE TRAY OR PIPING. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- KITCHEN HOOD SYSTEM INCLUDING HOOD, EXHAUST FANS, MAKE-UP AIR UNITS, AND ALL ASSOCIATED DUCTS AND CONTROLS SHALL BE BY OTHERS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH KITCHEN EQUIPMENT PROVIDER / INSTALLER. TO INSTALL COMPLETE INSTALLATION OF HVAC AND SYSTEM.
- DISHWASHER HOOD SYSTEM INCLUDING HOOD, EXHAUST FANS, AND ALL ASSOCIATED DUCTS AND CONTROLS SHALL BE BY OTHERS. MECHANICAL CONTRACTOR SHALL COORDINATE WITH KITCHEN EQUIPMENT PROVIDER / INSTALLER. TO INSTALL COMPLETE INSTALLATION OF HVAC SYSTEM.
- PROVIDE A PERFORATED SUPPLY AIR DIFFUSER WHERE INDICATED. REFER TO AIR DEVICE SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- PROVIDE 12"x12" TRANSFER AIR GRILLE WHERE INDICATED WITH 10"x10" DUCT. EXTEND THROUGH WALL INTO PLENUM SPACE.
- REFER TO THIRD FLOOR PLAN - A - ON SHEET M103A, FOR CONTINUATION.
- ROUTE 22"x14" MAKEUP AIR DUCT UP TO ROOFTOP IN DUCT CLOSET ABOVE. REFER TO M105a FOR CONTINUATION. COORDINATION WITH KITCHEN EQUIPMENT PROVIDER AND HOOD INSTALLER WILL BE REQUIRED. REFER TO ALL FOOD SERVICE DRAWINGS.
- BALANCE MANUAL DAMPER TO 1,300 CFM AND CONNECT 18"x12" DUCT TO RETURN OF HEAT PUMP AS INDICATED.

AIR BALANCE SCHEDULE

HOOD MARK	HOOD EXHAUST CFM	HOOD MAKE-UP CFM	REQUIRED MAKE-UP FROM OTHER SOURCES CFM
H-26	2,750	2,338	412
H-27	2,750	2,338	412
H-28	2,750	2,338	412
H-29	2,750	2,338	412
H-31	3,800	3,230	570
H-57	600	0	600
TOTALS	15,400	12,582	2,818
MAKEUP AIR PROVIDED BY MAU-102			2,600
NET NEGATIVE			218

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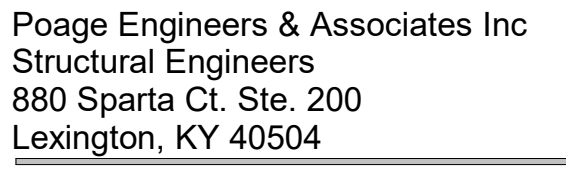
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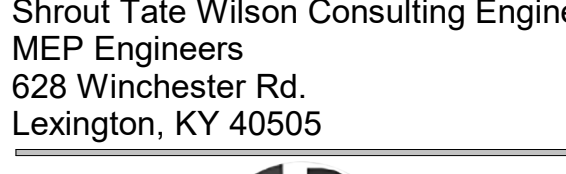
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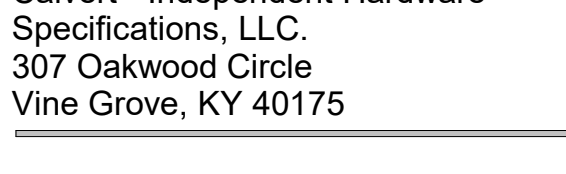
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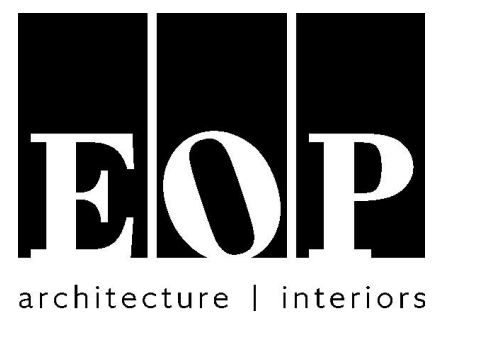


ENLARGED MECHANICAL PLANS
ADD #4
10/28/2022

M405

BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/2022	ADDENDUM #4



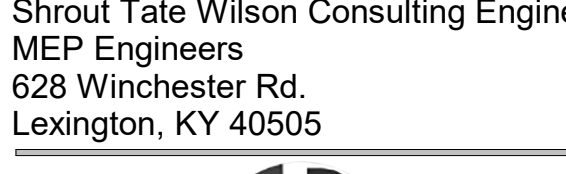
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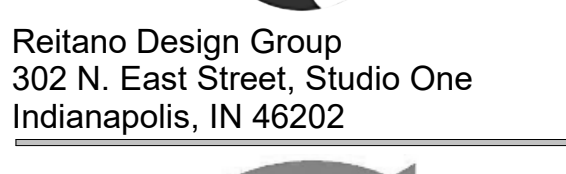
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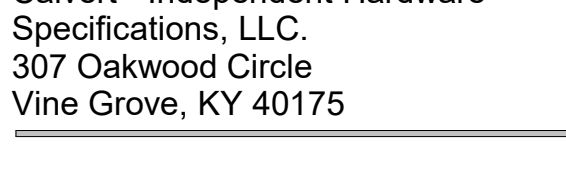
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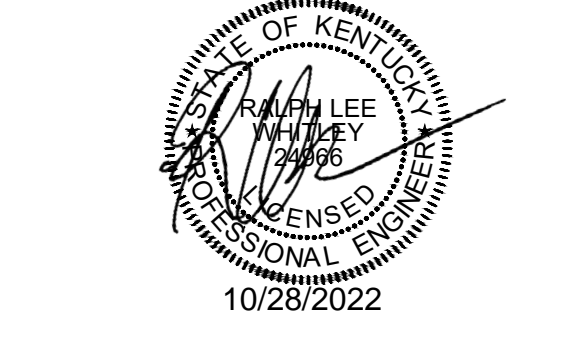
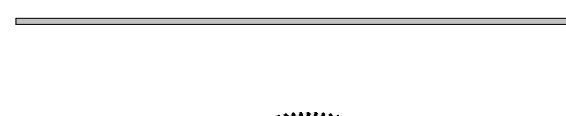
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**ENLARGED
MECHANICAL PLANS**

ADD #4
10/28/2022

M407

GENERAL NOTES

1. REFER TO DRAWING M001 FOR MECHANICAL GENERAL NOTES AND LEGEND.

SHEET KEYNOTES

- PROVIDE HORIZONTAL WATER-SOURCE HEAT PUMP UNIT WHERE INDICATED. HORIZONTAL UNITS MOUNTED ABOVE CEILING SHALL BE INSTALLED NO MORE THAN 2'-0" ABOVE CEILING SYSTEM. WSPH UNITS SHALL NOT BE INSTALLED ABOVE CABLE TRAY OR PIPING. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE A SINGLE DUCT VARIABLE AIR VOLUME (VAV) BOX WHERE INDICATED FOR OUTSIDE AIR DEMAND CONTROL VENTILATION. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE A STATIONARY RETURN AIR LOUVER WHERE INDICATED. LOUVER SHALL BE INSTALLED AT 8'-0" A.F.F. TO BOTTOM OF LOUVER. REFER TO LOUVER SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE A SIDEWALL MOUNTED SUPPLY AIR GRILLE WHERE INDICATED. INSTALL RETURN AIR GRILLE 12'-0" A.F.F. TO BOTTOM OF GRILLE. REFER TO AIR DEVICE SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- UTILIZE FACTORY MOUNTED FILTER RACK ON UNIT THAT IS HANGING IN SPACE WITH NO CEILING. FILTER RACK MUST ACCOMMODATE 2" DISPOSABLE FILTERS.
- SUPPLY AIR DUCT SHALL EXTEND THRU WALL AS 20"x20" SQUARE. AT WALL PENETRATION PROVIDE A SQUARE TO ROUND ADAPTER TO TRANSITION TO 20" Ø DUCT.
- PROVIDE A DUCT MOUNTED DOUBLE DEFLECTION SUPPLY AIR DIFFUSER. REFER TO AIR DEVICE SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- PROVIDE A SELF-CONTAINED RECIRCULATING DUST COLLECTION SYSTEM WHERE INDICATED. REFER TO DUST COLLECTION SYSTEM SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- PROVIDE A DUST COLLECTION DROP TO EQUIPMENT. FINAL CONNECTION TO EQUIPMENT SHALL BE BY OWNER.
- PROVIDE A DUST COLLECTION DROP TO FLOOR SWEEP.
- DUCT FOR CULINARY HOOD EXHAUST AND MAKEUP AIR ROUTED IN THIS AREA. COORDINATE WITH KITCHEN EQUIPMENT PROVIDER.
- PROVIDE MANUAL BALANCING DAMPER. SET AIR FLOW TO 355 CFM WHEN VAV BOX IS AT FULL FLOW.
- PROVIDE MANUAL BALANCING DAMPER. SET AIR FLOW TO 350 CFM WHEN VAV BOX IS AT FULL FLOW.
- ALL EXPOSED DUCT SHALL BE DOUBLE WALL SPIRAL. DUCT SHALL BE GALVANIZED, NON-PAINTED.
- INSTALL DUST COLLECTION DUCT AT 10'-0" A.F.F. DUST COLLECTION DUCT SHALL BE SINGLE WALL SPIRAL. DUCT SHALL BE OF PROPER GAUGE AND CONSTRUCTION FOR NEGATIVE PRESSURE DUST COLLECTION APPLICATION.
- PROVIDE A TRANSFER AIR LOUVER WHERE INDICATED. LOUVER SHALL BE INSTALLED AT 8'-0" A.F.F. REFER TO LOUVER SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- PROVIDE A CEILING MOUNTED EXHAUST FAN WHERE INDICATED. REFER TO EXHAUST FAN SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE STATIONARY INTAKE LOUVER WHERE INDICATED. LOUVER SHALL BE INSTALLED AS HIGH AS POSSIBLE. REFER TO ARCHITECTURAL ELEVATIONS, AND STRUCTURAL DETAILS FOR INSTALLATION. REFER TO LOUVER SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE A STATIONARY EXHAUST LOUVER WHERE INDICATED. LOUVER SHALL BE INSTALLED AS HIGH AS POSSIBLE. REFER TO ARCHITECTURAL ELEVATIONS, AND STRUCTURAL DETAILS FOR INSTALLATION. REFER TO LOUVER SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE MOTORIZED DAMPER WHERE INDICATED. DAMPERS SHALL BE FOR CONTROL OF OUTSIDE AIR / ECONOMIZER / VENTILATION. REFER TO INSTRUMENTATION AND CONTROLS DRAWINGS FOR ADDITIONAL INFORMATION.
- PROVIDE A MINI-SPLIT OUTDOOR CONDENSING UNIT WHERE INDICATED. UNIT SHALL BE INSTALLED ON WALL MOUNTING BRACKET AND SHALL BE INSTALLED AT 8'-0" A.F.F. REFER TO MINI-SPLIT SYSTEM SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- PROVIDE A VEHICLE EXHAUST SYSTEM HOSE REEL PER MANUFACTURER'S INSTRUCTIONS WHERE INDICATED. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- CAR-MON HOSE ASSEMBLY WITH LFT RETRACTOR SET.
- PROVIDE A UTILITY SET VEHICLE EXHAUST FAN ON WALL MOUNTED SUPPORT SYSTEM WHERE INDICATED. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- PROVIDE A DUCT MOUNTED SUPPLY AIR DIFFUSER. REFER TO AIR DEVICE SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.
- ALL EXPOSED DUCT SHALL BE DOUBLE WALL SPIRAL. DUCT SHALL BE GALVANIZED FINISH UNPAINTED.
- PROVIDE AN AIR TO AIR ENERGY RECOVERY VENTILATOR WHERE INDICATED. UNIT SHALL BE SUPPORTED FROM STRUCTURE. UNIT TO BE MOUNTED A MINIMUM OF 10'-0" A.F.F. UNIT SHALL BE FOR SPACE VENTILATION AND EXHAUST FOR AUTOMOTIVE LAB 110. UNIT TO BE ENERGIZED DURING OCCUPIED HOURS AND OFF DURING UNOCCUPIED HOURS.
- MOTORIZED DAMPER FOR ERV. DAMPER TO BE FULL OPEN WHEN UNIT IS ENERGIZED AND FULL CLOSED WHEN UNIT IS OFF.
- PROVIDE A DUCT MOUNTED EXHAUST AIR GRILLE AT 12" A.F.F. WHERE INDICATED. REFER TO AIR DEVICE SCHEDULE FOR SIZE AND ADDITIONAL REQUIREMENTS.
- TURN EXHAUST DUCT DOWN AT WALL AND TRANSITION TO 4" x 12" AND HOLD TIGHT TO WALL.
- MOTORIZED DAMPER FOR CONTROL OF RECIRCULATION DURING UNOCCUPIED HOURS. DURING OCCUPIED HOURS THIS DAMPER SHALL BE FULL CLOSED. DURING UNOCCUPIED HOURS THIS DAMPER SHALL BE FULL OPEN TO ALLOW FOR FULL RECIRCULATION.
- MOTORIZED DAMPER FOR CONTROL OF MINIMUM RETURN AIR FOR HP-110. DURING OCCUPIED HOURS THE DAMPER SHALL BE FULL OPEN AND BALANCED TO 1,100 CFM (ADJ.) WITH A MANUAL BALANCING DAMPER. DURING UNOCCUPIED HOURS THE DAMPER SHALL BE FULL CLOSED.
- PROVIDE AN ELECTRIC UNIT HEATER PER MANUFACTURER'S INSTRUCTIONS. INSTALL HEATER AT 9'-0" A.F.F. REFER TO ELECTRIC HEATER SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.

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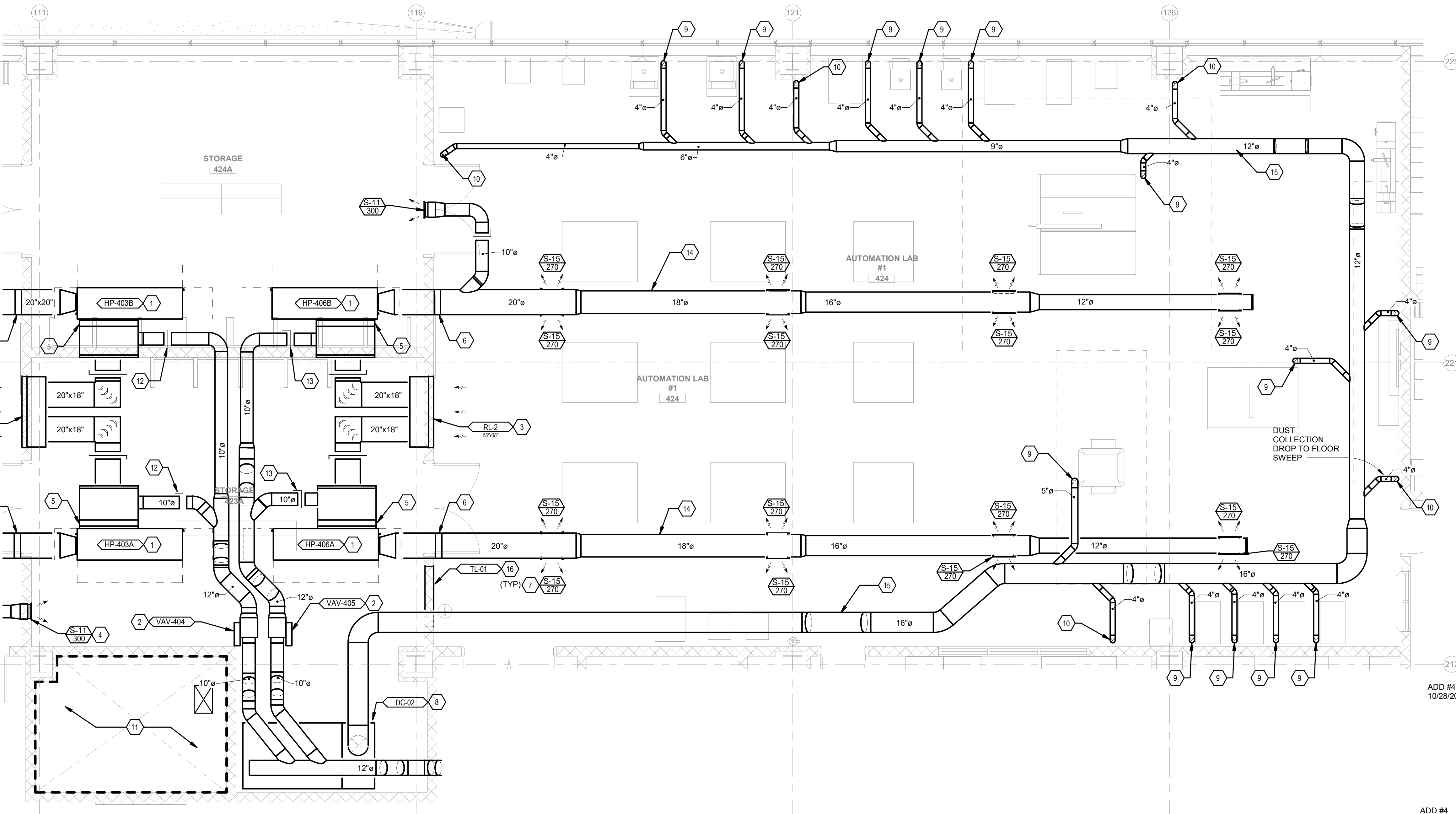
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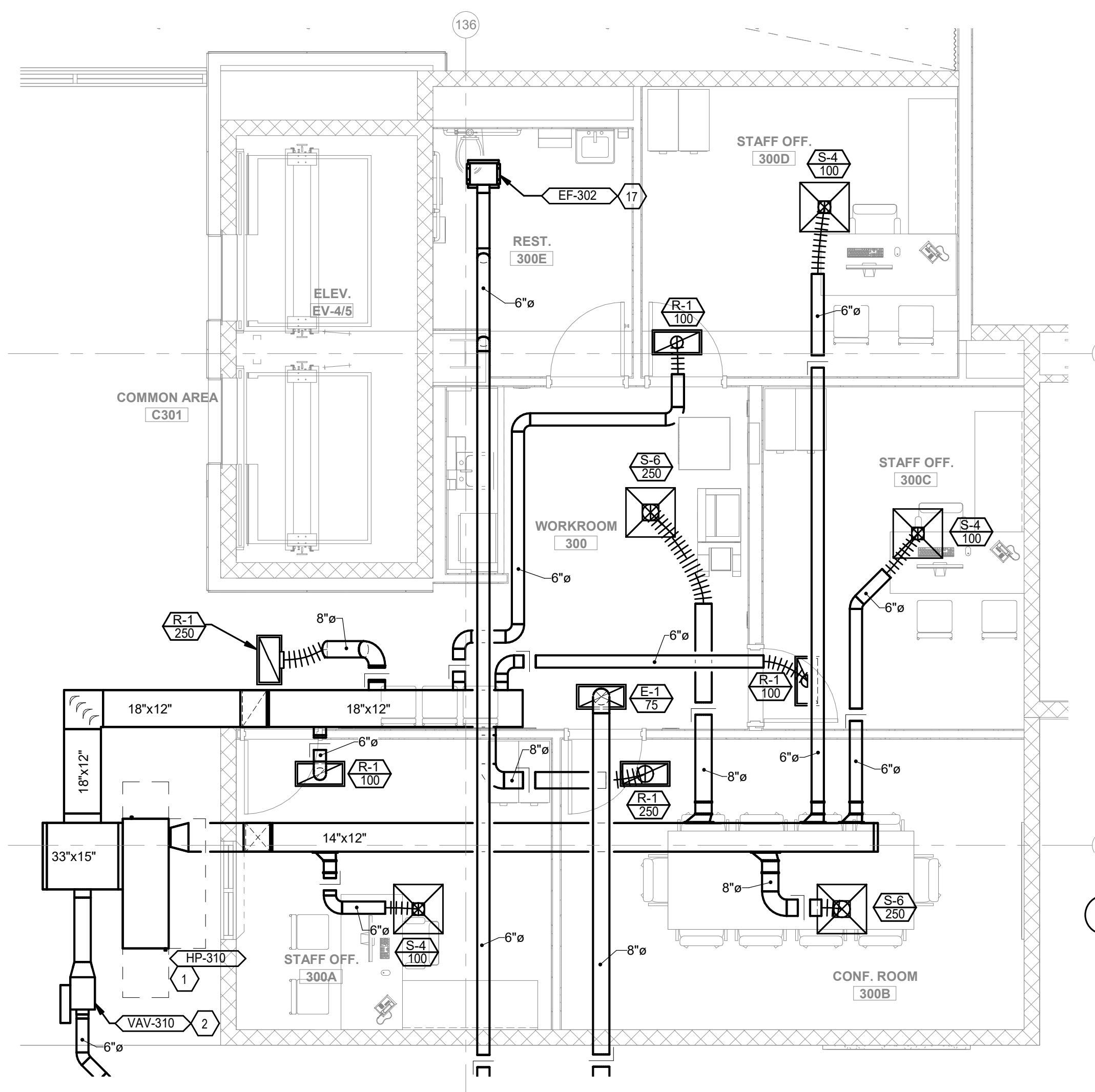
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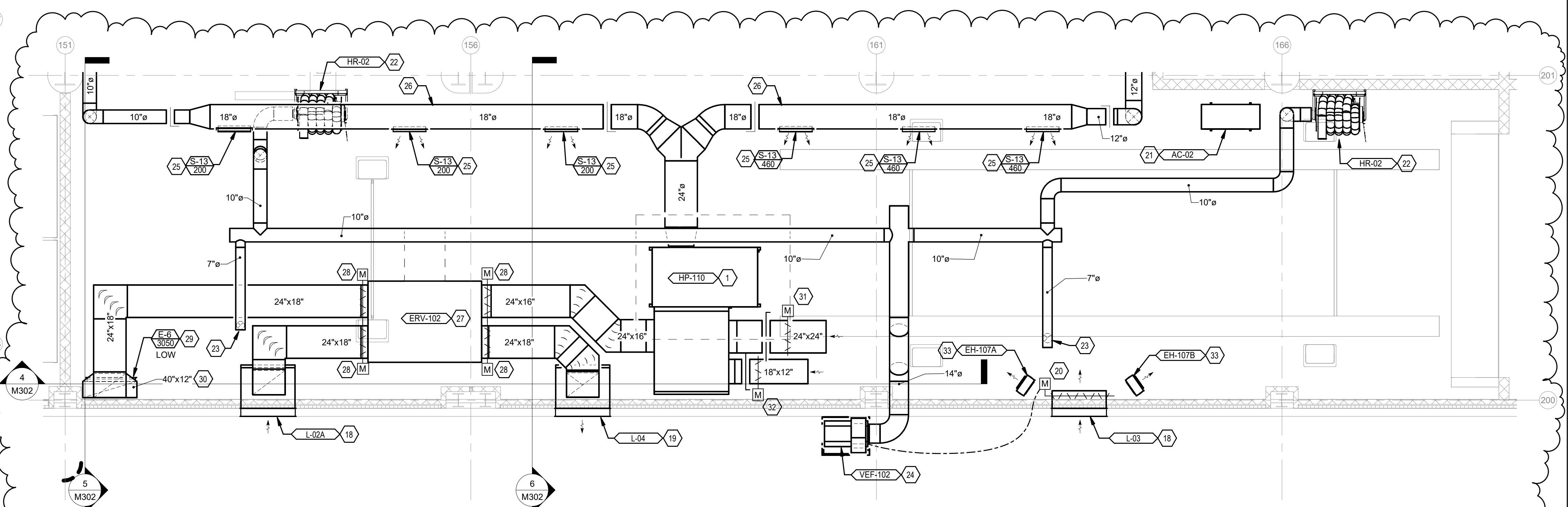
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1 ENLARGED AUTOMATION LAB 424 - HVAC
SCALE: 1/4" = 1'-0"



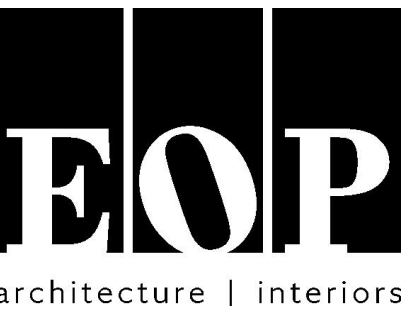
2 ENLARGED THIRD FLOOR OFFICE SUITE 300 - HVAC
SCALE: 1/4" = 1'-0"



3 ENLARGED PARTIAL DIESEL TECH LAB 113 - HVAC
SCALE: 1/4" = 1'-0"

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REVISIONS		
#	DATE	DESCRIPTION
4	10/28/2022	ADDENDUM #4



PROJECT TEAM

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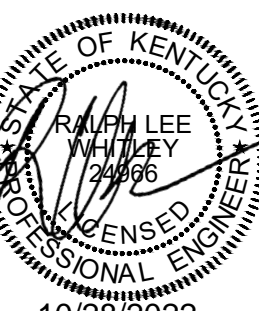
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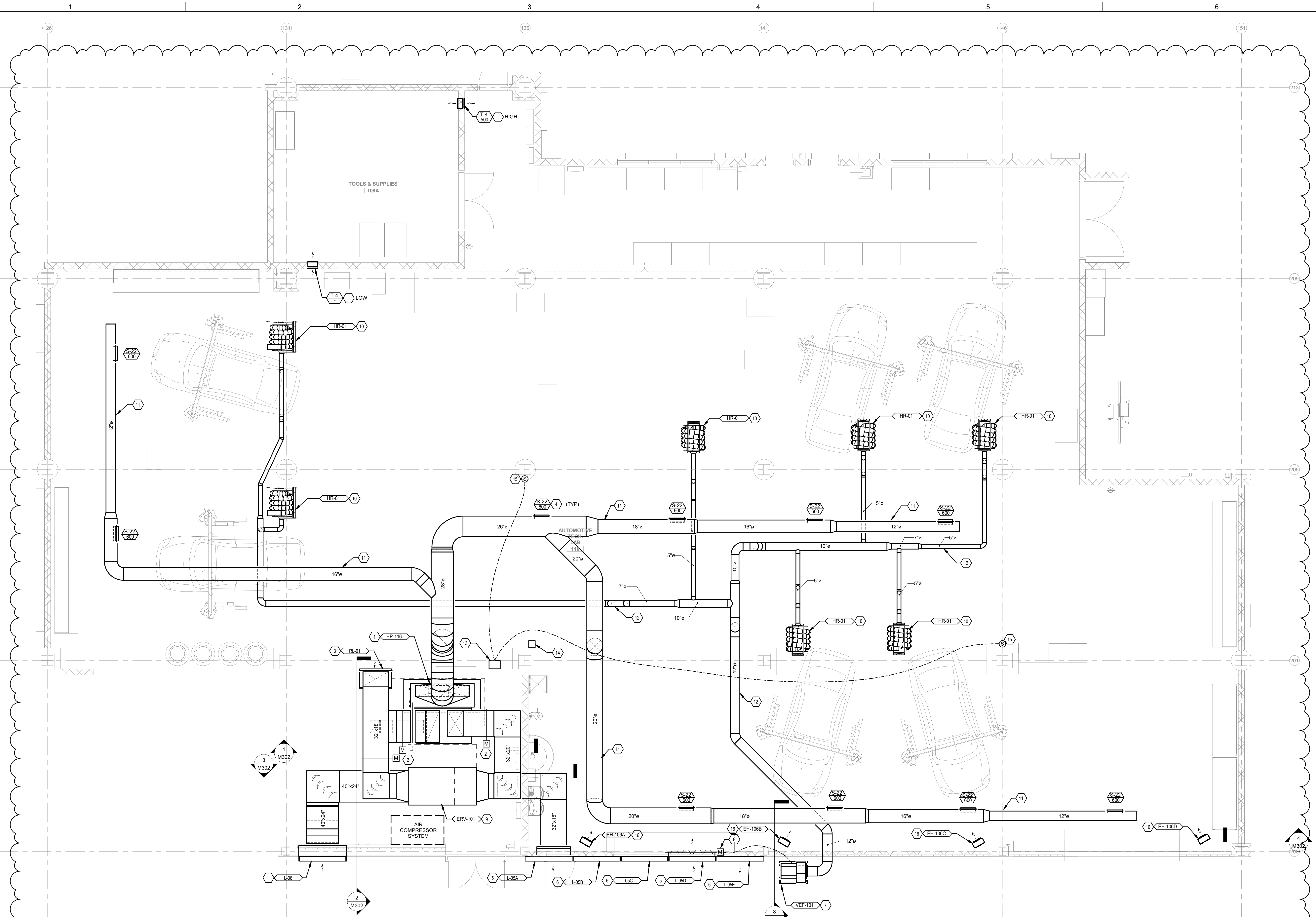
Job Number 2150 PLAN
Drawn By CS / JC TRUE
Checked By RLW
Date 09/28/2022



**ENLARGED
MECHANICAL PLANS**

ADD #
10/28/2022

M408



1 ENLARGED AUTOMOTIVE LAB 110 - HVAC
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO DRAWING M001 FOR MECHANICAL GENERAL NOTES AND LEGEND.

SHEET KEYNOTES

1. PROVIDE AND INSTALL A VERTICAL WATER-SOURCE HEAT PUMP UNIT WHERE INDICATED. UNIT SHALL BE INSTALLED ON A 4" HOUSEKEEPING PAD. REFER TO WATER-SOURCE HEAT PUMP SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
2. MOTORIZED DAMPER DAMPERS FOR CONTROL OF VENTILATION AIR SYSTEM FOR AUTOMOTIVE LAB 110. REFER TO SECTIONS ON M302.
3. RETURN AIR LOUVER REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
4. HIGH CAPACITY DUCT MOUNTED DRUM LOUVER. REFER TO AIR DEVICE SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
5. NEW LOUVER REPLACE EXISTING.
6. NEW LOUVER FOR EXISTING. CAP PER DETAIL.
7. PROVIDE A UTILITY SET VEHICLE EXHAUST FAN ON WALL MOUNTED SUPPORT SYSTEM WHERE INDICATED. REFER TO SCHEDULE AND DETAILS FOR ADDITIONAL REQUIREMENTS.
8. PROVIDE MOTORIZED DAMPER ON LOUVER FOR INTAKE. INTERLOCK TO CONTROL OF VEF-101. REFER TO CONTROLS SEQUENCES OF OPERATIONS FOR MORE INFORMATION.
9. PROVIDE AN AIR TO AIR ENERGY RECOVERY VENTILATOR WHERE INDICATED. UNIT SHALL BE SUPPORTED FROM STRUCTURE. UNIT TO BE MOUNTED A MINIMUM OF 10'-0" A.F.F. UNIT SHALL BE FOR SPACE VENTILATION AND EXHAUST FOR AUTOMOTIVE LAB 110. UNIT TO BE ENERGIZED DURING OCCUPIED HOURS AND OFF DURING UNOCCUPIED HOURS.
10. PROVIDE A VEHICLE EXHAUST SYSTEM HOSE REEL PER MANUFACTURER'S INSTRUCTIONS WHERE INDICATED. REFER TO SCHEDULES AND DETAILS.
11. SUPPLY AIR DUCT SHALL BE DOUBLE WALL SPIRAL. DUCT TO BE GALVANIZED FINISH.
12. EXHAUST DUCT SHALL BE SINGLE WALL WITH GALVANIZED FINISH.
13. PROVIDE A GAS MONITORING SYSTEM WHERE INDICATED. GAS MONITORING SYSTEM SHALL MONITOR FOR CARBON MONOXIDE (CO) AND NITROGEN DIOXIDE (NO2). CONTROL SYSTEM SHALL BE SENVA TG UL SERIES WALL DUAL TOXIC GAS SENSOR / CONTROLLER OR SIMILAR. REFER TO CONTROLS SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
14. PROVIDE AN AUDIO / VISUAL ALARM WHERE INDICATED. ALARM SHALL BE ACTIVATED BY GAS DETECTION SYSTEM. REFER TO CONTROLS SEQUENCES OF OPERATION FOR ADDITIONAL INFORMATION. AUDIO / VISUAL ALARM SHALL BE SIMILAR TO KELE MODEL AIS ALARM STATION.
15. PROVIDE A COMBINATION CO AND NO2 SENSOR AT 48" A.F.F. WHERE INDICATED. ALL CONTROL WIRING SHALL BE CONCEALED IN CONDUIT. ROUTE WIRING TO GAS MONITORING CONTROLLER.
16. PROVIDE AN ELECTRIC UNIT HEATER PER MANUFACTURER'S INSTRUCTIONS. INSTALL HEATER AT 9'-0" A.F.F. REFER TO ELECTRIC HEATER SCHEDULE FOR SIZING AND ADDITIONAL REQUIREMENTS.

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AIR DEVICE SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, MAX CFM, MODULE (INCHES), AIR PATTERN, NECK (INCHES), MAX NG, REMARKS. Rows include S-1 through S-23.

Table with columns: MARK, MANUFACTURER, MODEL, MAX CFM, MODULE (INCHES), AIR PATTERN, NECK (INCHES), MAX NG, REMARKS. Rows include R-1 through R-12 and E-1 through E-6.

Table with columns: MARK, MANUFACTURER, MODEL, MAX CFM, MODULE (INCHES), AIR PATTERN, NECK (INCHES), MAX NG, REMARKS. Rows include T-1 through T-6.

Table with columns: MARK, MANUFACTURER, MODEL, MAX CFM, MODULE (INCHES), AIR PATTERN, NECK (INCHES), MAX NG, REMARKS. Rows include DC-01 and DC-02.

Table with columns: MARK, MANUFACTURER, MODEL, MAX CFM, MODULE (INCHES), AIR PATTERN, NECK (INCHES), MAX NG, REMARKS. Rows include D-1 and D-2.

EXHAUST FAN SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, CFM, ESP (IN H2O), SONES, DRIVE TYPE, RPM, ELECTRICAL (V/Hz/Ø, HP, NEC FLA, MOCP), REMARKS, SERIAL NUMBER. Rows include EF-101 through VEF-102.

REMARKS: 1. PROVIDE WITH FACTORY / UNIT MOUNTED DISCONNECT. 2. PROVIDE WITH FACTORY / UNIT MOUNTED SPEED CONTROL VIA POTENTIOMETER OR OTHER MEANS. 3. CEILING MOUNTED FAN SUPPORTED FROM STRUCTURE. 4. INLINE FAN SUPPORTED FROM STRUCTURE. 5. SIDEWALL DIRECT DRIVE FAN. PROVIDE WITH WALL SLEEVE. 6. UTILITY SET FAN INSTALLED ON POWDER-COATED WALL BRACKET SYSTEM. 7. PROVIDE BACKDRAFT DAMPER PER MANUFACTURER'S RECOMMENDATIONS. 8. INTERLOCK FAN TO WALL SWITCH. COORDINATE WITH ELECTRICIAN TO ENSURE SWITCH IS PROVIDED AND WIRED. 9. INTERLOCK TO SPACE LIGHTING CONTROLS FOR OCCUPANCY CONTROL. COORDINATE WITH ELECTRICIAN. 10. FAN TO BE CONTROLLED BY BAS VIA SCHEDULE AND GAS DETECTION SYSTEM. REFER TO SEQUENCES OF OPERATION. 11. FAN TO BE CONTROLLED BY WALL SWITCH. LABEL WALL SWITCH 'VEHICLE EXHAUST SYSTEM'. 12. FAN TO BE CONTROLLED BY BAS VIA THERMOSTAT. FAN SHALL BE ENERGIZED AT 80°F. 13. FAN TO BE CONTROLLED BY BAS VIA INTERLOCK TO HP-115B OPERATION AND SPACE OCCUPANCY. 14. BELT DRIVE FAN - PROVIDE WITH TWO (2) ADDITIONAL SETS OF BELTS. 15. COORDINATE WITH TESTING AND BALANCING CONTRACTOR TO ENSURE THAT SHEAVES ARE CORRECT DURING BALANCE. 16. DISCONNECT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: CARNES, COOK. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

LOUVER SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL*, FLOW TYPE, MAX AIRFLOW (CFM), SIZE (w/x(h) inches), LOUVER DEPTH (inches), VELOCITY (FPM), PRESSURE DROP (in of water), FREE AREA (SF), REMARKS, SERIAL NUMBER. Rows include L-01 through RL-1.

GENERAL NOTES: 1. ALL LOUVER COLORS SHALL BE SELECTED BY ARCHITECT. 2. ALL LOCATIONS OF EXTERIOR LOUVERS SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS. 3. ALL EXTERIOR LOUVERS SHALL BE PROVIDED WITH BIRD SCREEN. 4. ALL LOUVERS SHALL BE ALUMINUM CONSTRUCTION.

ELECTRIC HEATER SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, TYPE, CFM, BTUH, ELECTRICAL (V/Ø/Hz, KW, MCA, MOCP), WEIGHT (LBS), REMARKS, SERIAL NUMBER. Rows include EH-101 through EH-502.

REMARKS: 1. INTEGRAL THERMOSTAT AND DISCONNECT. 2. INSTALL PER MANUFACTURER'S INSTRUCTIONS. 3. PROVIDE REQUIRED MOUNTING BRACKET FOR MOUNTING AS INDICATED ON PLANS. 4. PROVIDE WITH SUMMER FAN SWITCH. 5. WALL MOUNTED THERMOSTAT AND INTEGRAL DISCONNECT. 6. SEMI-RECESSED.

GAS FIRED BOILER SCHEDULE - ADD ALTERNATE #1

Table with columns: MARK, MANUFACTURER, MODEL, SERVICE, MIN GAS PRESS., MBH INPUT (MIN - MAX), MBH OUTPUT (GROSS - NET), EV/T, LW/T, GPM, AIR INLET SIZE, FLUE SIZE, ELECTRICAL (V/Ø/Hz, MCA, MOCP), REMARKS, SERIAL NUMBER. Row includes B-1A & 1B.

REMARKS: 1. CONDENSING TYPE BOILER WITH MINIMUM 20:1 TURNDOWN RATIO. 2. PROVIDE WITH DIRECT VENT OPTION. 3. PROVIDE WITH SEALED DIRECT COMBUSTION. 4. MINIMUM NATURAL GAS PRESSURE IS AT FULL LOAD. 5. BOILERS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. 6. PROVIDE EMERGENCY GAS SHUT OFF VALVE AT ALL EXT DOORS. 7. PROVIDE WITH REALTIME O2 TRIME FUNCTION. 8. LOW NOx OPERATION. 9. BACKNET IP COMMUNICATION GATEWAY FOR INTEGRATION TO BAS. 10. PROVIDE CONDENSATION NEUTRALIZATION KITS. 11. PROVIDE 125 PSI ASME RELIEF VALVE.

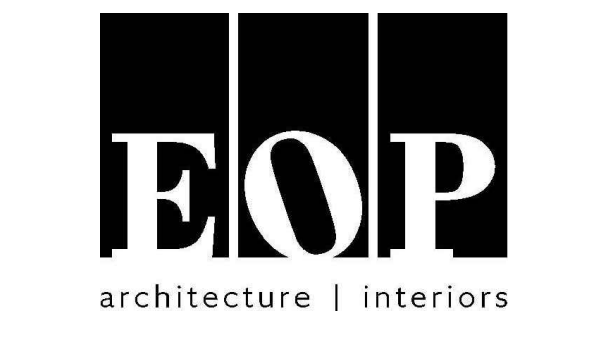
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: VIESSMANN, BUDERUS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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Table with columns: #, DATE, DESCRIPTION. Rows include 1, 2, 3, 4 with dates and addendum references.

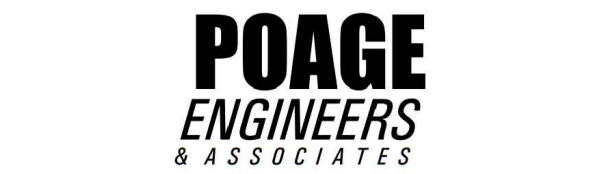


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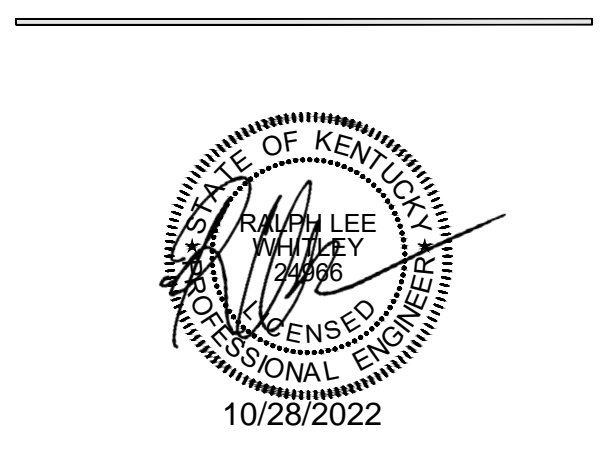
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KEYPLAN

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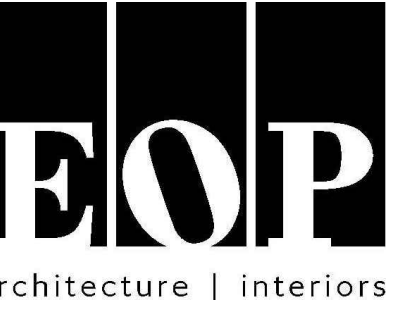
MECHANICAL SCHEDULES

ADD #4
10/28/2022

M602

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REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



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KEYPLAN

WATER SOURCE HEAT PUMP UNIT SCHEDULE

MARK	AREA SERVED BY HEAT PUMP	MODEL	CAPACITY	AIRFLOW (CFM)	EXTERNAL STATIC PRESSURE (inH ₂ O)	FLUID FLOW (GPM)	Fluid Pressure Drop (FT-H ₂ O)	COOLING							HEATING					ELECTRICAL					REMARKS	SERIAL NUMBER (TO BE COMPLETED BY CONTRACTOR)	
								LAT		TOTAL (BTU/hr)	SENSIBLE (BTU/hr)	HEAT OF REJECTION (BTU/hr)	EER (Design)	EER (AHR)	LAT (F)	TOTAL (BTU/hr)	HEAT OF ABSORPTION (BTU/hr)	COP (Design)	COP (AHR)	Vi Hz / PH	COMPRESSOR RLA	FAN MOTOR FLA	TOTAL UNIT FLA	MCA (A)			MOCP
								LDB (F)	LWB (F)																		
								LDB (F)	LWB (F)																		
HP-101	PRINCIPAL PSA BOOKKEEPER	WGDH024	FULL PART	800 700	0.3 0.3	6.00 10.27	9.92 52.4	55.3 48.2	52.1 17603	16332 12929	28756 20611	15.8 20.0	18.3 24.2	94.2 93.7	20338 17419	14539 13093	3.5 4.0	3.4 3.9	460/60/3	3.5	2.4	5.9	6.8	15	15,7,8,9,11,13		

GENERAL
1. OPERATING CONDITIONS: COOLING FULL CAPACITY 80 EDB / 67 EWB, 86 EWT (PART LOAD MODULATION 70 EDB / 59 EWB, 60 EWT)
2. OPERATING CONDITIONS: HEATING FULL CAPACITY 68 EDB, 32 EWT (PART LOAD MODULATION 70 EDB, 75 EWT)
3. ALL UNITS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
4. PROVIDE FLEXIBLE DUCT CONNECTIONS
5. PROVIDE LINE SIZE HOSE KITS WITH REDUCER AT UNIT CONNECTION.
6. ALL UNITS SHALL BE EXTENDED RANGE FOR GEOTHERMAL OR BOILER / TOWER OPERATION.
7. ALL UNITS ARE TO INCLUDE VIBRATION ISOLATION.

REMARKS
1. COMPACT HORIZONTAL UNIT (MAXIMUM UNIT HEIGHT 19")
2. HORIZONTAL UNIT
3. VERTICAL UNIT
4. SINGLE STAGE UNIT
5. TWO-STAGE UNIT
6. 100% OUTSIDE AIR PROCESSING UNIT WITHOUT ENERGY RECOVERY MUST BE ABLE TO HEAT 0° OUTSIDE WITHOUT AUXILIARY HEAT
7. PROVIDE WITH UNIT MOUNTED FACTORY DISCONNECT
8. PROVIDE WITH CONDENSATE OVERFLOW SENSOR
9. PROVIDE UNIT WITH HOT GAS REHEAT
10. UNIT TO BE PROVIDED WITH MOTORIZED DAMPERS FOR ECONOMIZER
11. UTILIZE HINGED FILTER GRILLES
12. UTILIZE FACTORY FILTER RACK
13. TWO-WAY CONTROL VALVE BY T.C.C.
14. THREE-WAY CONTROL VALVE BY T.C.C.
15. VARIABLE CAPACITY COMPRESSORS MINIMUM 8:1

OTHER ACCEPTABLE MANUFACTURERS INCLUDE: TRANE / DAIKIN / FLORIDA HEAT PUMP. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FLUID COOLER SCHEDULE - ADD ALTERNATE #1

TAG	MANUFACTURER	MODEL	OAT DB/WB	HEAT REJECTION MBH	EWT F	LWT F	FLOW GPM	WATER		FANS		SPRAY PUMP		BASIN HEATER			ELECTRICAL			REMARKS	SERIAL NUMBER (TO BE COMPLETED BY CONTRACTOR)
								WPD FT	QTY	TOTAL HP	QTY	HP	GPM	QTY	KW	Vi/Hz	MCA	MOCP			
FC-1	BAC	FXV3-1426-24T-50	95/78	7.497	95	85	1,500	9.8	1	50	2	7.5	1,900	2	14	460/3/60	103.8	125	ALL		

REMARKS
1. INDUCED DRAFT CLOSED CIRCUIT FLUID COOLER
2. PROVIDE WITH PACKAGED CONTROL PANEL WITH SINGLE POINT POWER CONNECTION
3. CAPACITIES ARE BASED ON 20% PROPYLENE GLYCOL SOLUTION
4. WHISPER QUIET - LOW SOUND FAN
5. STANDARD WET COIL
6. PROVIDE ELECTRIC BASIN HEATER(S)
7. GALVANIZED STEEL COLD WATER BASIN
8. PROVIDE VFD FOR FAN MOTOR
9. PROVIDE VIBRATION CUT-OUT SWITCH WITH LOCAL RESET
10. PROVIDE WITH REQUIRED INTERNAL AND EXTERNAL LADDERS AND WALKWAYS REQUIRED FOR MAINTENANCE.
11. CONTROL PANEL SHALL BE PROVIDED BY THE UNIT MANUFACTURER, INSTALLED BY THE MECHANICAL CONTRACTOR.
12. ELECTRICAL CONTRACTOR SHALL MAKE CONNECTION TO SINGLE POINT POWER CONNECTION AT CONTROL PANEL.
13. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL POWER CONNECTIONS FROM CONTROL PANEL TO ALL COMPONENTS, I.E. FAN MOTOR(S), PUMP MOTOR(S) DAMPER ACTUATOR(S), ETC.
14. TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE ANY SENSORS OR CONNECTIONS TO UNIT CONTROL PANEL REQUIRED TO INTEGRATE AS INDICATED IN CONTROLS SPECIFICATIONS, DRAWINGS, SEQUENCES, AND POINTS LISTS.
15. DISCHARGE HOOD SHALL INCLUDE INSULATED POSITIVE CLOSE-OFF DAMPERS.
16. ALL EXTERIOR ABOVE GRADE PIPING SHALL BE HEAT TRACED AND INSULATED. THIS INCLUDES SUPPLY, RETURN, MAKE-UP WATER, AND SPRAY PUMP PIPING.
17. MECHANICAL CONTRACTOR SHALL PROVIDE BASE FOR FLUID COOLER PER MANUFACTURERS INSTALLATION REQUIREMENTS.

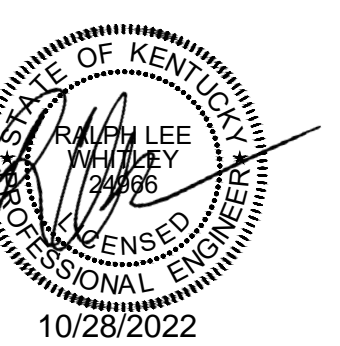
OTHER ACCEPTABLE MANUFACTURERS SHALL INCLUDE: EVAPCO AND MARLEY
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

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Drawn By JC / CS
Checked By RLV
Date 09/28/2022

PLAN TRUE



MECHANICAL SCHEDULES

M603

NEW COMBINED CTE SCHOOL

BG# 22-167
100 Midland Ave,
Lexington, KY 40508

BID DOCUMENTS

REVISIONS table with columns for #, DATE, and DESCRIPTION.



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Calvert - Independent Hardware
Specifications, LLC.
307 Oakwood Circle
Vine Grove, KY 40175

KEYPLAN

Job Number 2150 PLAN
Drawn By JC / CS
Checked By RLV
Date 09/28/2022



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WATER SOURCE HEAT PUMP UNIT SCHEDULE

Main equipment schedule table with columns for MARK, AREA SERVED BY HEAT PUMP, MODEL, CAPACITY, AIRFLOW, EXTERNAL STATIC PRESSURE, FLUID FLOW, Fluid Pressure Drop, COOLING (LAT, TOTAL, HEAT OF REJECTION, EER, EER (AHR)), HEATING (LAT, TOTAL, HEAT OF ABSORPTION, COP, COP (AHR)), ELECTRICAL (V/Hz/PH, COMPRESSOR, FAN MOTOR, TOTAL UNIT, MCA (A), MOCP), REMARKS, and SERIAL NUMBER.

GENERAL
1. OPERATING CONDITIONS: COOLING FULL CAPACITY 80 EDB / 67 EWB, 86 EWT (PART LOAD MODULATION 70 EDB / 59 EWB, 60 EWT)
2. OPERATING CONDITIONS: HEATING FULL CAPACITY 68 EDB, 32 EWT (PART LOAD MODULATION 70 EDB, 75 EWT)
3. ALL UNITS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
4. PROVIDE FLEXIBLE DUCT CONNECTIONS
5. PROVIDE LINE SIZE HOSE KITS WITH REDUCER AT UNIT CONNECTION.
6. ALL UNITS SHALL BE EXTENDED RANGE FOR GEOTHERMAL OR BOILER / TOWER OPERATION.
7. ALL UNITS ARE TO INCLUDE VIBRATION ISOLATION.
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: TRANE / DAIKIN / FLORIDA HEAT PUMP. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FLUID COOLER SCHEDULE - ADD ALTERNATE #1

Fluid Cooler Schedule table with columns for TAG, MANUFACTURER, MODEL, OAT DB/WB, HEAT REJECTION MBH, EWTF, LWTF, WATER FLOW GPM, WPD FT, FANS QTY, TOTAL HP, SPRAY PUMP QTY, HP, GPM, BASIN HEATER QTY, KW, V/Hz, MCA, MOCP, REMARKS, SERIAL NUMBER.

- 1. INDUCED DRAFT CLOSED CIRCUIT FLUID COOLER
- 2. PROVIDE WITH PACKAGED CONTROL PANEL WITH SINGLE POINT POWER CONNECTION
- 3. CAPACITIES ARE BASED ON 20% PROPYLENE GLYCOL SOLUTION
- 4. WHISPER QUIET - LOW SOUND FAN
- 5. STANDARD WET COIL
- 6. PROVIDE ELECTRIC BASIN HEATERS
- 7. GALVANIZED STEEL COLD WATER BASIN
- 8. PROVIDE VFD FOR FAN MOTOR
- 9. PROVIDE VIBRATION CUT-OUT SWITCH WITH LOCAL RESET
- 10. PROVIDE WITH REQUIRED INTERNAL AND EXTERNAL LADDERS AND WALKWAYS REQUIRED FOR MAINTENANCE.
- 11. CONTROL PANEL SHALL BE PROVIDED BY THE UNIT MANUFACTURER, INSTALLED BY THE MECHANICAL CONTRACTOR.
- 12. ELECTRICAL CONTRACTOR SHALL MAKE CONNECTION TO SINGLE POINT POWER CONNECTION AT CONTROL PANEL.
- 13. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL POWER CONNECTIONS FROM CONTROL PANEL TO ALL COMPONENTS, I.E. FAN MOTOR(S), PUMP MOTOR(S), DAMPER ACTUATOR(S), ETC.
- 14. TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ANY SENSORS OR CONNECTIONS TO UNIT CONTROL PANEL REQUIRED TO INTEGRATE AS INDICATED IN CONTROLS SPECIFICATIONS, DRAWINGS, SEQUENCES, AND POINTS LISTS.
- 15. DISCHARGE HOOD SHALL INCLUDE INSULATED POSITIVE CLOSE-OFF DAMPERS.
- 16. ALL EXTERIOR ABOVE GRADE PIPING SHALL BE HEAT TRACED AND INSULATED. THIS INCLUDES SUPPLY, RETURN, MAKE-UP WATER, AND SPRAY PUMP PIPING.
- 17. MECHANICAL CONTRACTOR SHALL PROVIDE BASE FOR FLUID COOLER PER MANUFACTURERS INSTALLATION REQUIREMENTS.

AIR TO AIR ENERGY RECOVERY UNIT SCHEDULE

Air to Air Energy Recovery Unit Schedule table with columns for MARK, MANUFACTURER, MODEL, SUPPLY FAN (AIRFLOW, ESP, MOTOR), RETURN/EXHAUST FAN (AIRFLOW, ESP, MOTOR), HEAT RECOVERY (WINTER SUPPLY, WINTER RETURN, SUMMER SUPPLY, SUMMER RETURN), ELECTRICAL (V/Hz, MCA, MOCP), WEIGHT (LBS), REMARKS, SERIAL NUMBER.

- 1. VERTICAL ORIENTATION
- 2. HORIZONTAL ORIENTATION
- 3. SUPPORT FROM STRUCTURE
- 4. PROVIDE WITH FIELD MOUNTED MOTORIZED DAMPERS FOR ALL AIR PATHS
- 5. PROVIDE WITH UNIT MOUNTED DISCONNECT
- 6. CONSTANT VOLUME
- 7. UNIT START / STOP COMMAND BY BAS
- 8. TCC TO PROVIDE ALL REQUIRED TEMPERATURE / HUMIDITY SENSORS FOR AIR PATHS
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

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BG# 22-167

100 Midland Ave,
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BID DOCUMENTS

REVISIONS		
#	DATE	DESCRIPTION
4	10/28/2022	ADDENDUM #4



PROJECT TEAM

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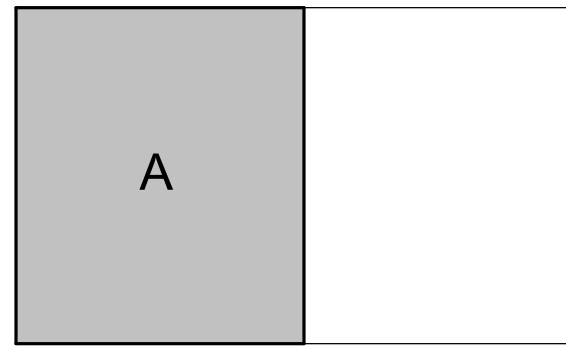


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Job Number 2150
Drawn By BRG
Checked By RLW
Date 09/28/2022



**FIRST FLOOR PLAN A -
SANITARY SEWER**

ADD #4
10/28/2022

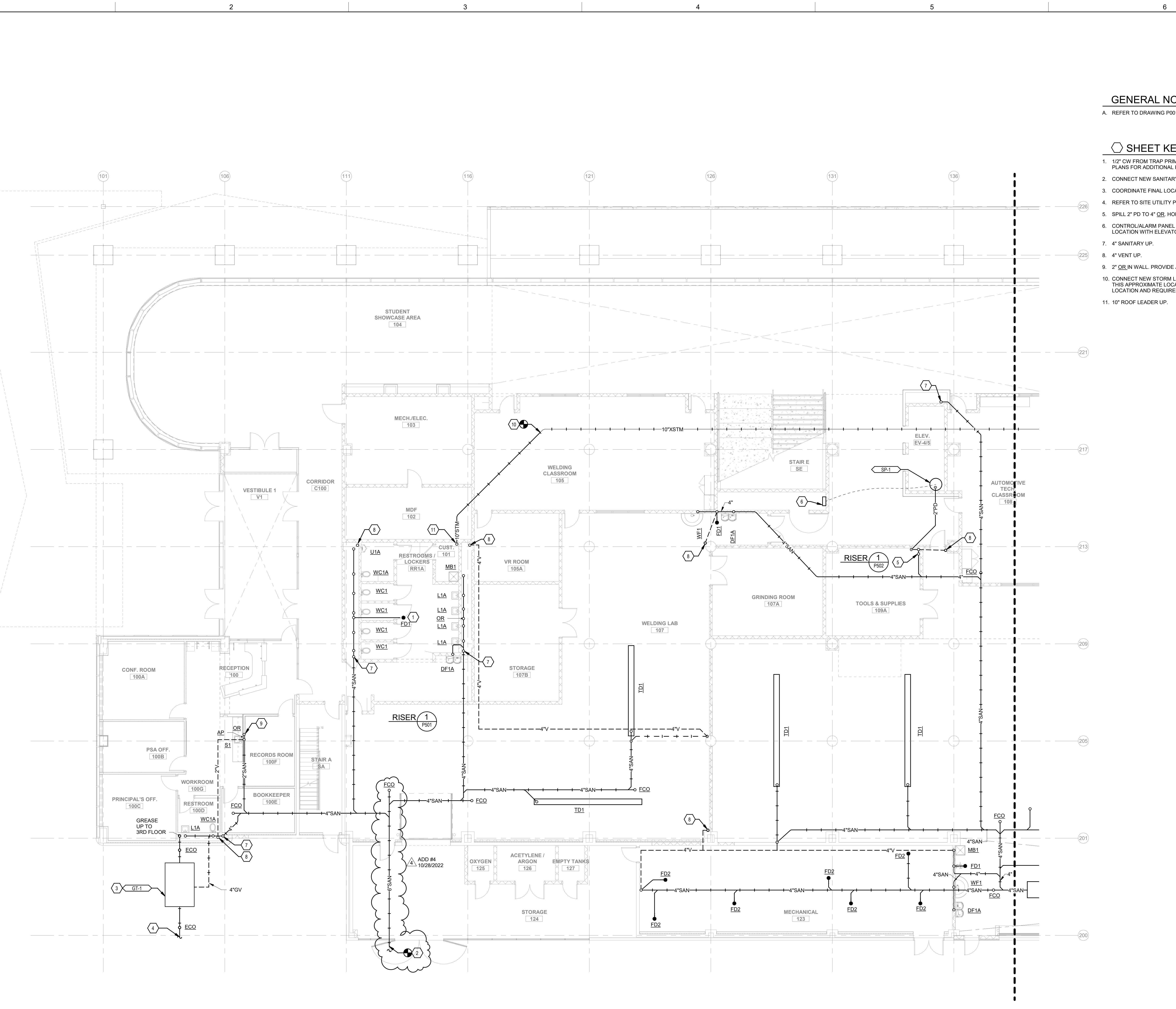
P101a

GENERAL NOTES

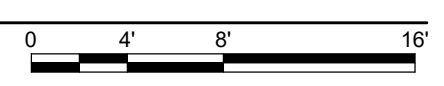
A. REFER TO DRAWING P001 FOR PLUMBING GENERAL NOTES.

SHEET KEYNOTES

- 1/2" CW FROM TRAP PRIMER. REFER TO DOMESTIC WATER PLANS FOR ADDITIONAL INFORMATION (TYP).
- CONNECT NEW SANITARY TO EXISTING.
- COORDINATE FINAL LOCATION WITH SITE CONDITIONS.
- REFER TO SITE UTILITY PLAN FOR CONTINUATION.
- SPILL 2" PD TO 4" OR. HOLD OR TIGHT IN CORNER.
- CONTROL/ALARM PANEL FOR SP-1. COORDINATE FINAL LOCATION WITH ELEVATOR INSTALLER & ELECTRICIAN.
- 4" SANITARY UP.
- 4" VENT UP.
- 2" OR IN WALL. PROVIDE ACCESS PANEL AP.
- CONNECT NEW STORM LINE TO EXISTING STORM LINE AT THIS APPROXIMATE LOCATION. FIELD VERIFY EXACT LOCATION AND REQUIREMENTS.
- 10" ROOF LEADER UP.

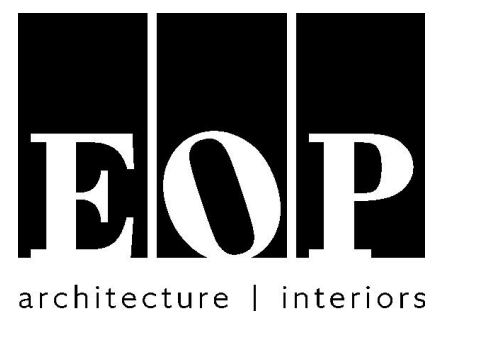


1 FIRST FLOOR PLAN A - SANITARY SEWER
SCALE: 1/8" = 1'-0"



10/27/2022 3:46:17 PM

REVISIONS		
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Job Number 2150
Drawn By BRG
Checked By RLW
Date 09/28/2022



**FIRST FLOOR PLAN B -
SANITARY SEWER**

ADD #4
10/28/2022

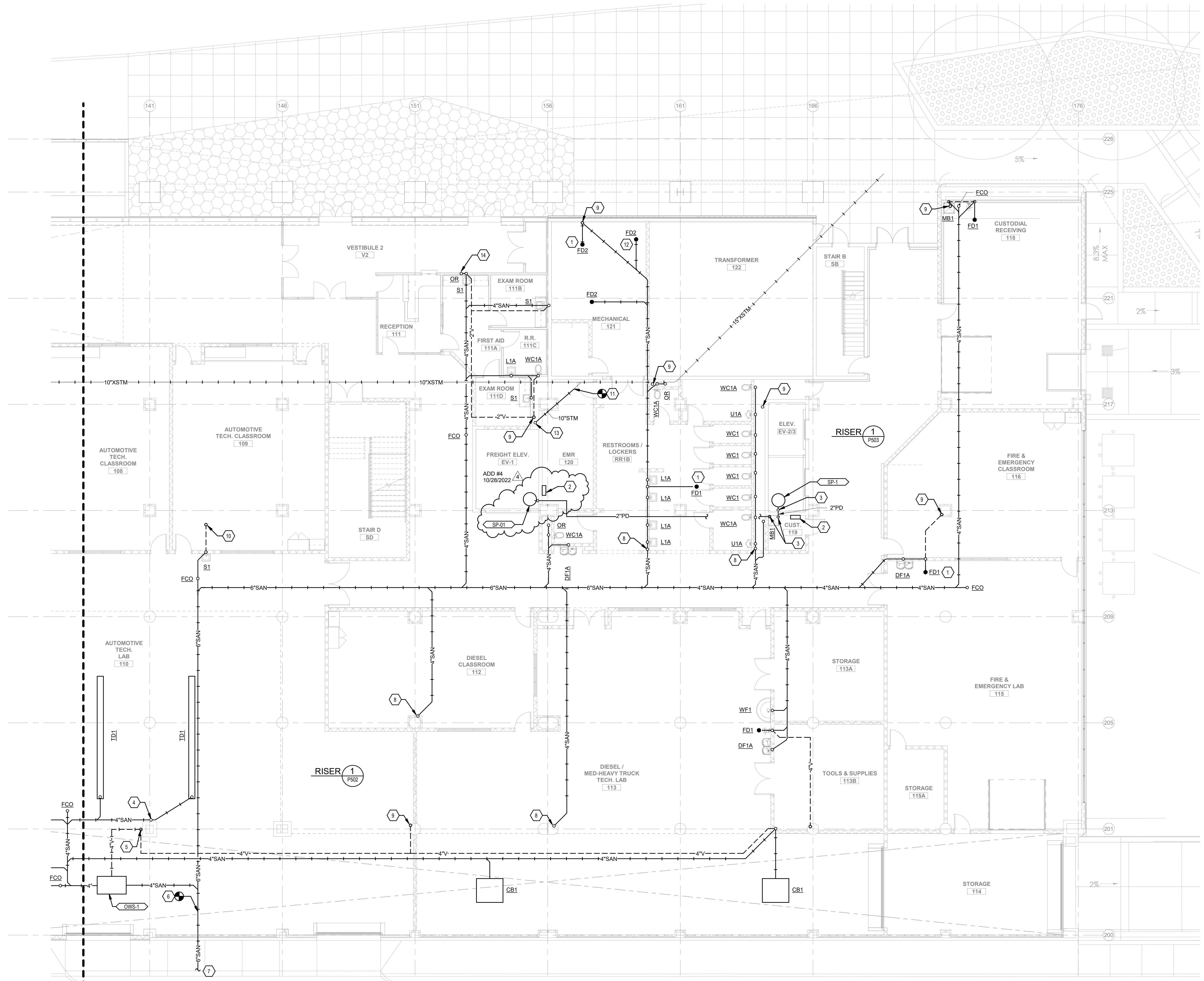
P101b

GENERAL NOTES

A. REFER TO DRAWING P001 FOR PLUMBING GENERAL NOTES.

SHEET KEYNOTES

- 1/2" CW TRAP PRIMER. REFER TO DOMESTIC WATER PLANS FOR ADDITIONAL INFORMATION. TYPICAL OF ALL FLOOR DRAINS.
- CONTROL ALARM PANEL FOR SP-1. COORDINATE FINAL LOCATION WITH ELEVATOR INSTALLER & ELECTRICIAN.
- 2" PD TIGHT TO WALL. ROUTE 2" PD OVERHEAD AND SPILL TO MB1.
- HOLD VENT TIGHT TO COLUMN.
- HOLD OWS1 VENT TIGHT TO COLUMN.
- CONNECT 4" TO EXISTING APPROXIMATELY THIS LOCATION.
- REFER TO SITE UTILITIES PLAN.
- 4" SANITARY UP.
- 4" VENT UP.
- 2" VENT UP.
- CONNECT NEW STORM LINE TO EXISTING.
- COORDINATE FLOOR DRAIN LOCATION WITH WATER AND FIRE PROTECTION ENTRANCES.
- 10" ROOF LEADER UP.
- OR SHALL BE ACCESSIBLE IN CASEWORK UNDERNEATH S1.



1 FIRST FLOOR PLAN B - SANITARY SEWER
SCALE: 1/8" = 1'-0"



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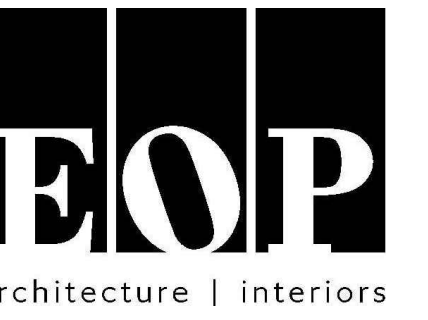
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#	DATE	DESCRIPTION
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3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



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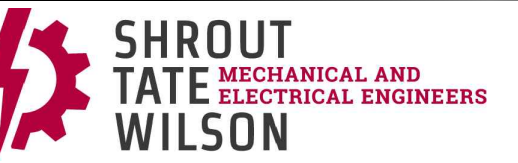
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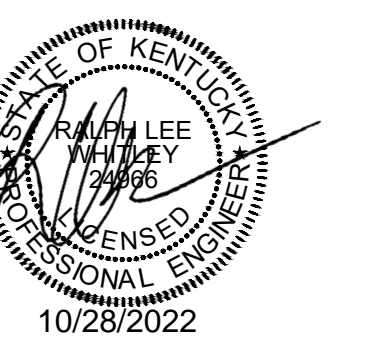
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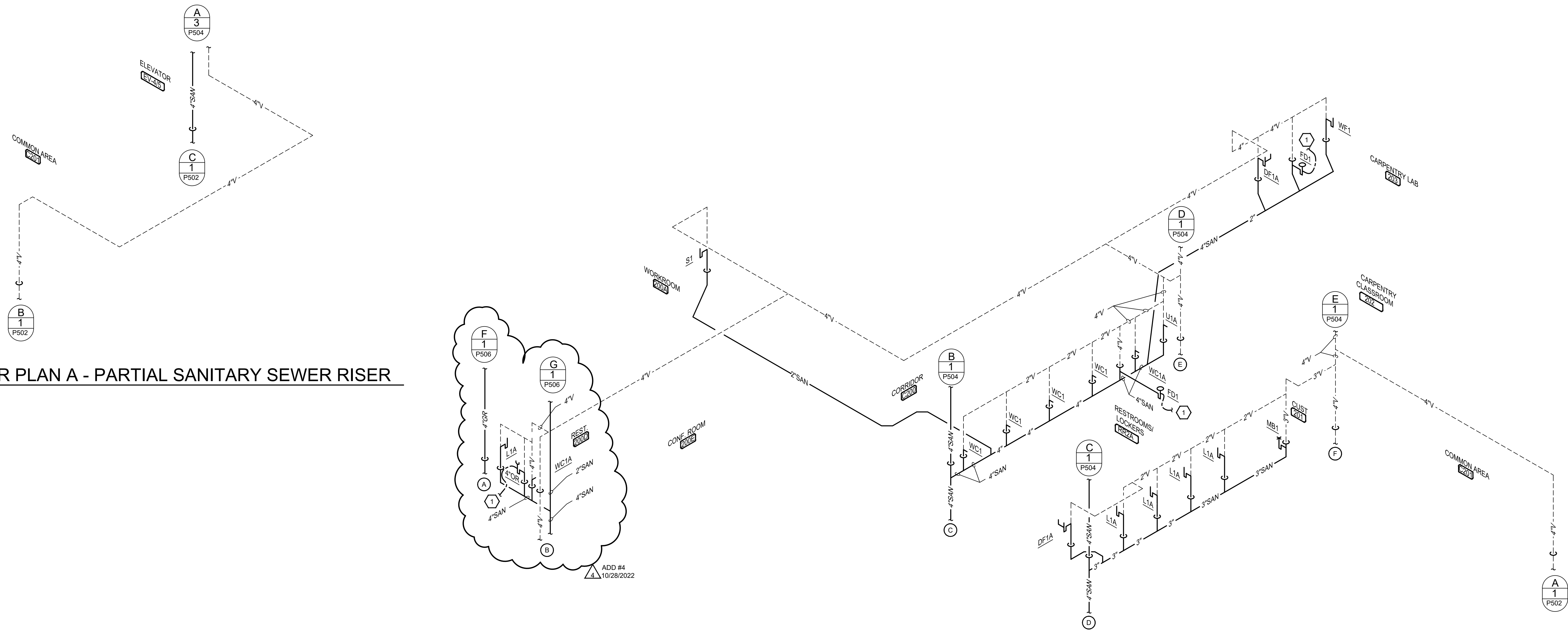
Job Number 2150 PLAN
Drawn By EBK TRUE
Checked By RLW
Date 09/28/2022



PLUMBING RISERS

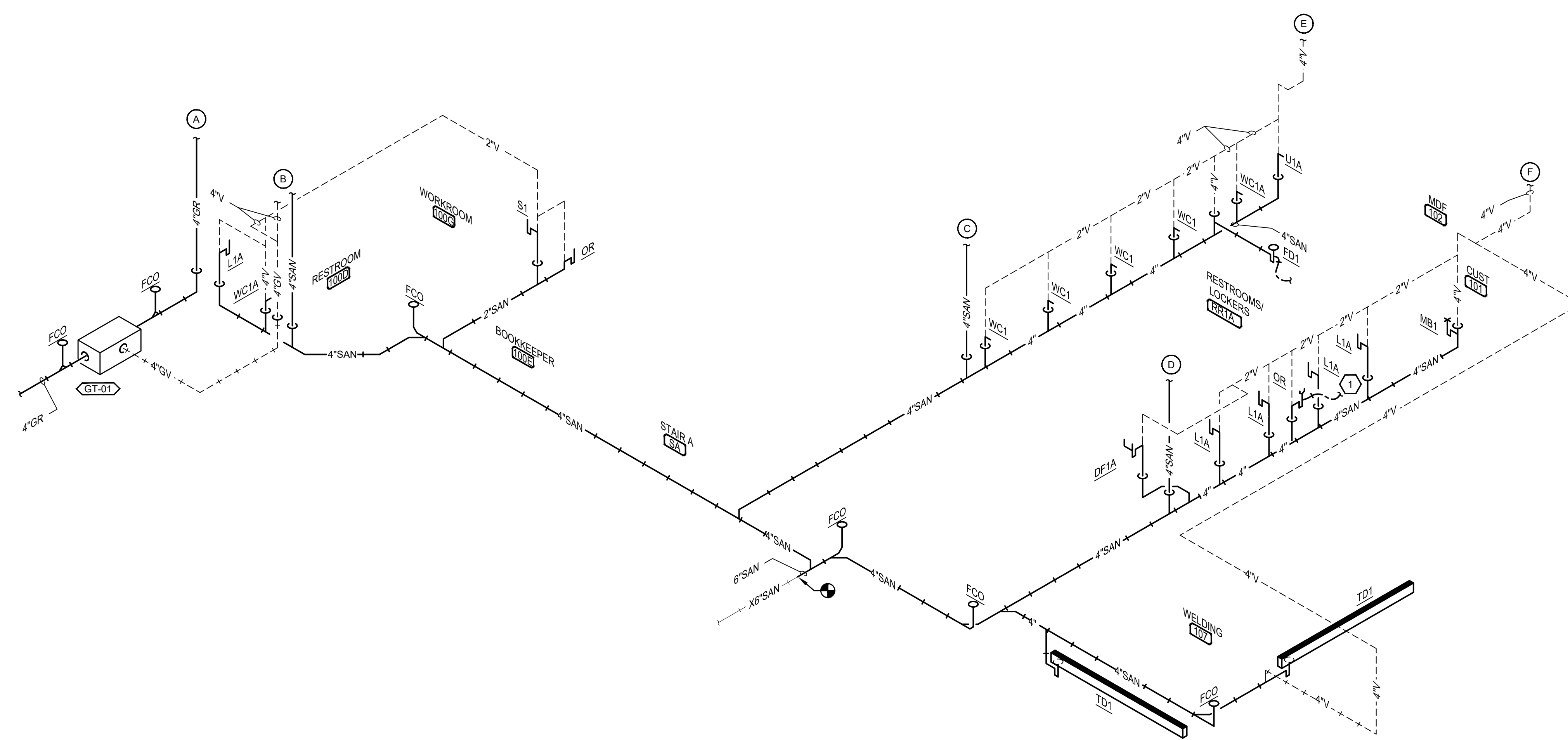
ADD #4
10/28/2022

P501



3 SECOND FLOOR PLAN A - PARTIAL SANITARY SEWER RISER
NOT TO SCALE

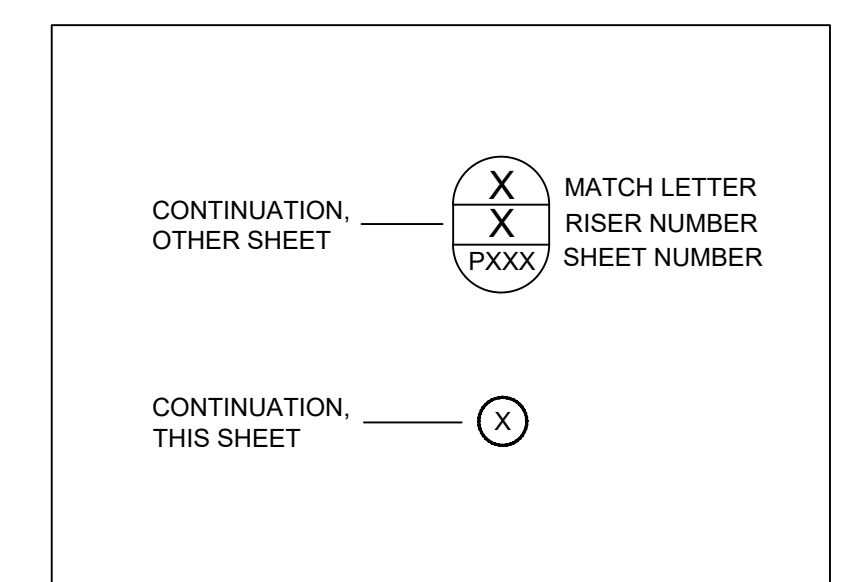
2 SECOND FLOOR PLAN A - PARTIAL SANITARY SEWER RISER
NOT TO SCALE



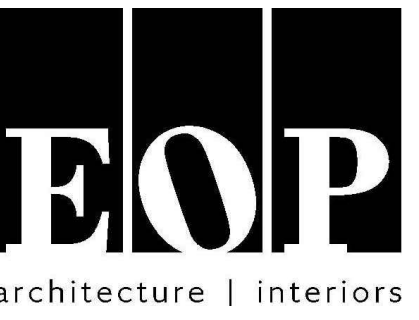
1 FIRST FLOOR PLAN A - PARTIAL SANITARY SEWER RISER
NOT TO SCALE

SHEET KEYNOTES:

- 1. 1/2" CW FROM TRAP PRIMER, (TYP.) ALL.



REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
3	10/21/22 ADDENDUM 3
4	10/28/22 ADDENDUM 4



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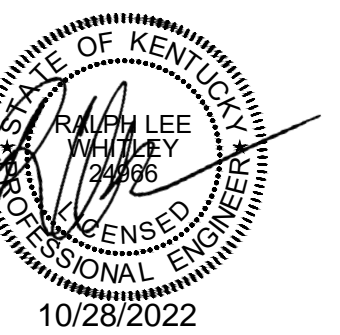
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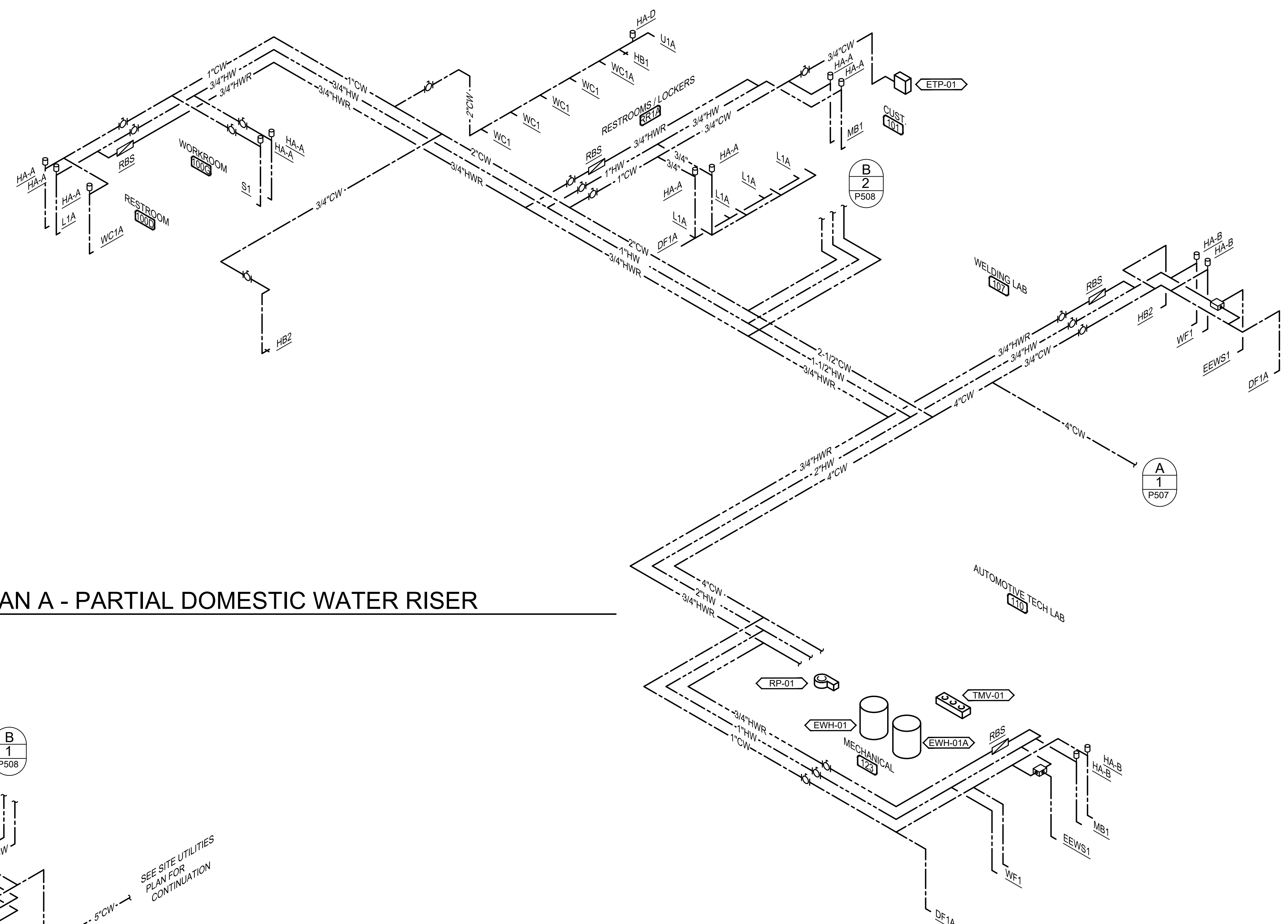
Job Number 2150 PLAN TRUE
Drawn By EBK
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Date 09/28/2022



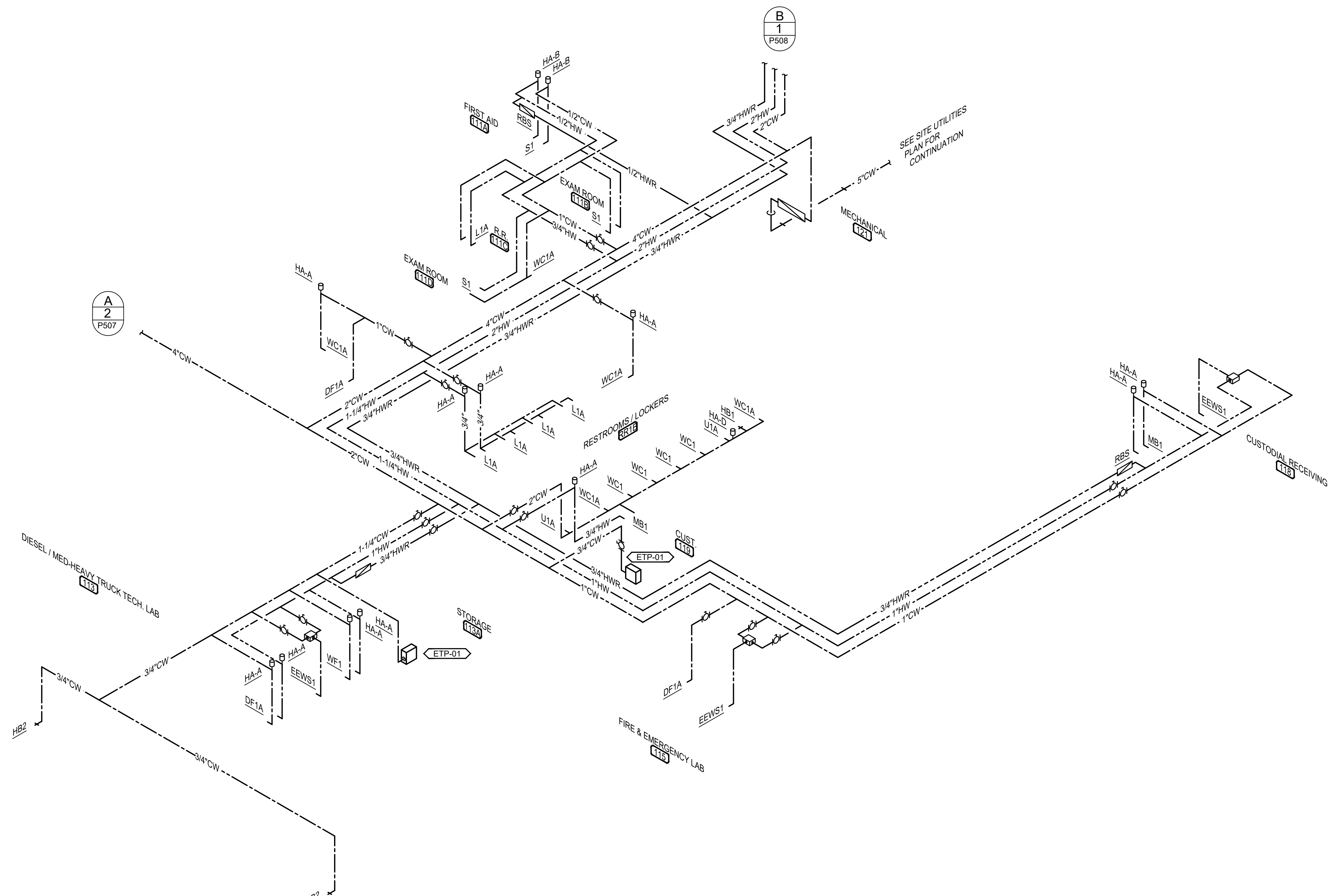
PLUMBING RISERS

ADD #4
10/28/2022

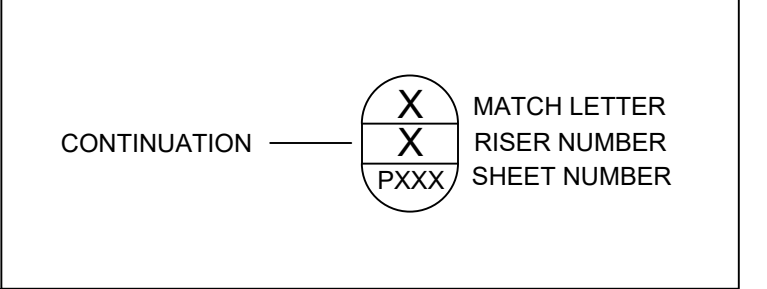
P507



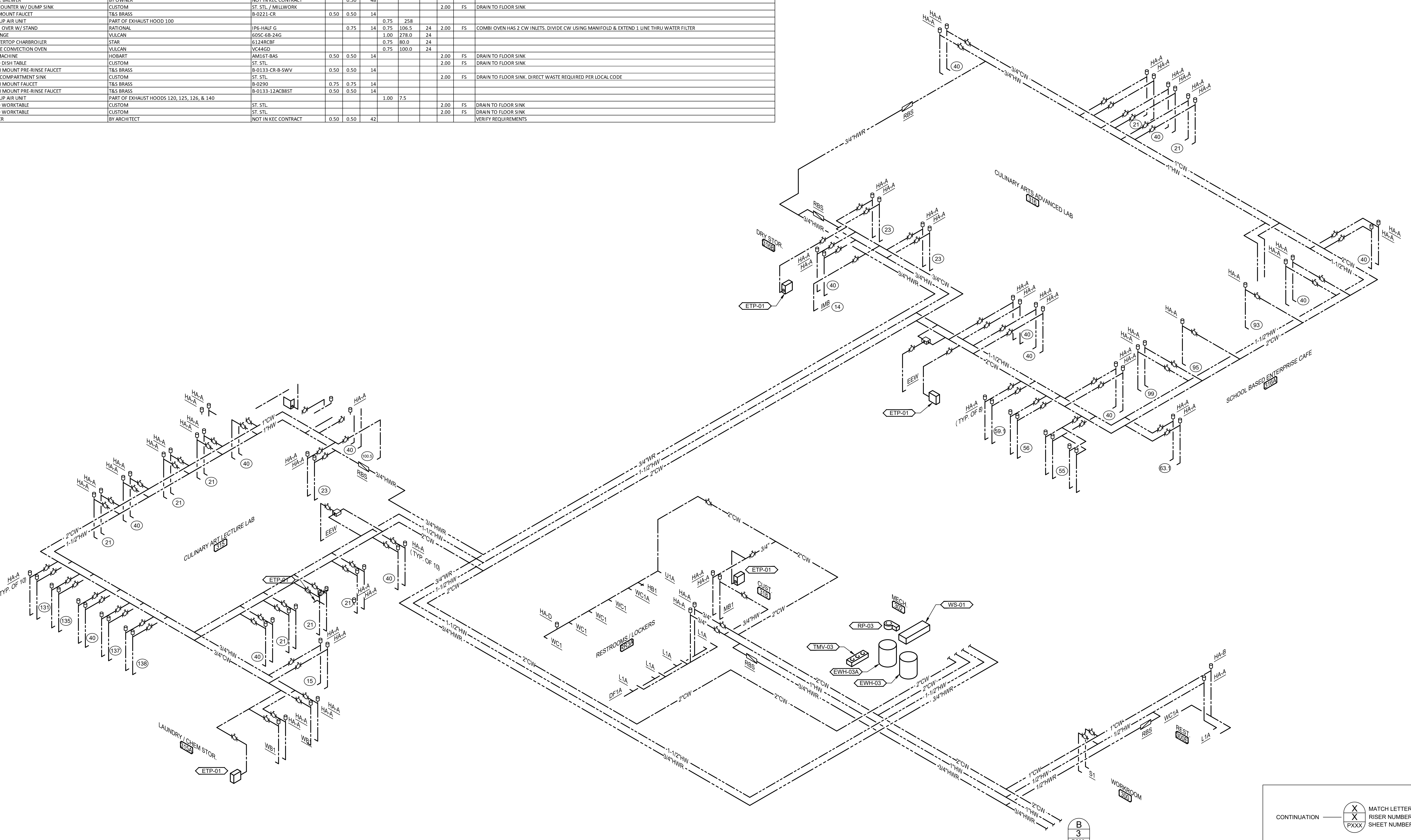
2 FIRST FLOOR PLAN A - PARTIAL DOMESTIC WATER RISER
NOT TO SCALE



1 FIRST FLOOR PLAN B - PARTIAL DOMESTIC WATER RISER
NOT TO SCALE



EQUIPMENT				MECHANICAL										REMARKS
ITEM NUMBER	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL	HOT WATER	COLD WATER	AF	CONN. SIZE	MBTU	AF	WASTE	AF		
2	1	COOLER BLOWER COIL	PART OF ITEM #1								0.75	FD	DRAIN TO FLOOR DRAIN	
6	1	FREEZER BLOWER COIL	PART OF ITEM #5								0.75	FD	DRAIN TO FLOOR DRAIN	
14	1	ICE MAKER W/ BIN	MAIN TOW/COICE	HY0420A/D-320							0.75	FD	DRAIN TO FLOOR DRAIN PC TO PIPE THROUGH FILTER PRIOR TO MACHINE	
15	2	UNIT/STAIR HOP SINK	ADVANCE T&S	9-09-20	0.50	0.50					42			
20	2	WORKTABLE W/ PREP SINK	CUSTOM	ST-STL								2.00	FS	DRAIN TO FLOOR SINK
21	8	SPLASH MOUNT FAUCET	T&S BRASS	B-0231-CR	0.50	0.50					14			
23	4	DECK MOUNT FAUCET	T&S BRASS	B-0231-CR	0.50	0.50					50			
26.3	1	MAKE-UP AIR UNIT	PART OF ITEM #26 & 27								0.75	352		
29.3	1	MAKE-UP AIR UNIT	PART OF ITEM #28 & 29								0.75	352		
34	1	MAKE-UP AIR UNIT	PART OF ITEM #31								0.75	243		
35	5	6 OPEN BURNER RANGE W/ OVEN	WILSCAN	365-60-N							0.75	215	24	
36	9	FRYER	HENNY PENNY	0FG321.0							0.50	85	24	
37	4	GAS CHAR-BROILERS	STAR MANUFACTURING	6115RCBF							0.75	40	24	
38	4	GAS GRIDDLES WITH THERMOSTATIC CONTROLS	STAR MANUFACTURING	6157F							0.75	28.30	24	
40	12	WALL MOUNT HAND SINK	JOHN BOOS	PHWS-W-1410-SSLR	0.50	0.50					18		1.50 18	
43	1	COUNTERTOP CHARBROILER	STAR	6124RCBF							0.75	80	24	
44	1	COUNTERTOP GRIDDLE	STAR	624TF							0.75	60	24	
47	2	12 GALLON TILT KETTLE	CLEVELAND	RET12T	0.50	0.50					14		2.00 FS	DRAIN TO FLOOR SINK
49	1	COMBI OVEN W/ STAND	RATIONAL	ICC 6-FULL G	0.75	14	0.75	106.5	24		2.00 FS		COMBI OVEN HAS 2 CW INLETS. DIVIDE CW USING MANIFOLD & EXTEND 1 LINE THRU WATER FILTER	
50	1	BLAST CHILLER	AMERICAN PANEL	AP10BCF100-2							0.75	FD		
55	1	CLEAN DISH TABLE W/ 3 COMP SINK	CUSTOM	ST-STL								2.00 FS	DRAIN TO FLOOR SINK. DIRECT WASTE REQUIRED PER LOCAL CODE	
55.1	2	SPLASH MOUNT FAUCET	T&S BRASS	B-0290	0.75	0.75					14			
56	1	DISH MACHINE	HOBART	AM16T-BAS	0.50	0.50					14		2.00 FS	DRAIN TO FLOOR SINK
59	1	SOIL DISHTABLE	CUSTOM	ST-STL								2.00 FS	DRAIN TO FLOOR SINK	
59.1	1	SPLASH MOUNT PRE-RINSE FAUCET	T&S BRASS	B-0133-CR-B-SWV	0.50	0.50					14			
63	1	WORKTABLE W/ PREP SINK	CUSTOM	ST-STL								2.00 FS	DRAIN TO FLOOR SINK	
63.1	1	SPLASH MOUNT FAUCET	T&S BRASS	B-0231-CR	0.50	0.50					14			
80	1	DROP-IN HOT WELL UNIT	LIT	TW-DW-3								0.75	FS	DRAIN TO FLOOR SINK
91	1	DROP-IN ICE BIN	KROWNE METAL	0278								0.75	FS	DRAIN TO FLOOR SINK
93	1	ESPRESSO MACHINE	BY OWNER	NOT IN KEC CONTRACT	0.50	48								
95	1	COFFEE BREWER	BY OWNER	NOT IN KEC CONTRACT	0.50	48								
98	1	BACK COUNTER W/ DUMP SINK	CUSTOM	ST-STL / MILLWORK								2.00 FS	DRAIN TO FLOOR SINK	
99	1	DECK MOUNT FAUCET	T&S BRASS	B-0231-CR	0.50	0.50					14			
103	1	MAKE-UP AIR UNIT	PART OF EXHAUST HOOD 100								0.75	258		
105	1	COMBI OVEN W/ STAND	RATIONAL	IP6-HALF G	0.75	14	0.75	106.5	24		2.00 FS		COMBI OVEN HAS 2 CW INLETS. DIVIDE CW USING MANIFOLD & EXTEND 1 LINE THRU WATER FILTER	
123	6	60" RANGE	WILSCAN	60SC-60-24G							1.00	278.0	24	
124	3	COUNTERTOP CHARBROILER	STAR	6124RCBF							0.75	80.0	24	
127	1	DOUBLE CONVECTION OVEN	WILSCAN	VCA4GD							0.75	100.0	24	
131	1	DISH MACHINE	HOBART	AM16T-BAS	0.50	0.50					14		2.00 FS	DRAIN TO FLOOR SINK
134	1	SOILED DISH TABLE	CUSTOM	AM16T-BAS	0.50	0.50					14		2.00 FS	DRAIN TO FLOOR SINK
135	1	SPLASH MOUNT PRE-RINSE FAUCET	T&S BRASS	B-0133-CR-B-SWV	0.50	0.50					14			
136	1	THREE COMPARTMENT SINK	CUSTOM	ST-STL								2.00 FS	DRAIN TO FLOOR SINK. DIRECT WASTE REQUIRED PER LOCAL CODE	
137	1	SPLASH MOUNT FAUCET	T&S BRASS	B-0290	0.75	0.75					14			
138	1	SPLASH MOUNT PRE-RINSE FAUCET	T&S BRASS	B-0133-12ACRST	0.50	0.50					14			
143	1	MAKE-UP AIR UNIT	PART OF EXHAUST HOODS 120, 125, 126, & 140								1.00	7.5		
146	3	ISLAND WORKTABLE	CUSTOM	ST-STL								2.00 FS	DRAIN TO FLOOR SINK	
148	3	ISLAND WORKTABLE	CUSTOM	ST-STL								2.00 FS	DRAIN TO FLOOR SINK	
154	2	WASHER	BY ARCHITECT	NOT IN KEC CONTRACT	0.50	0.50					42		VERIFY REQUIREMENTS	



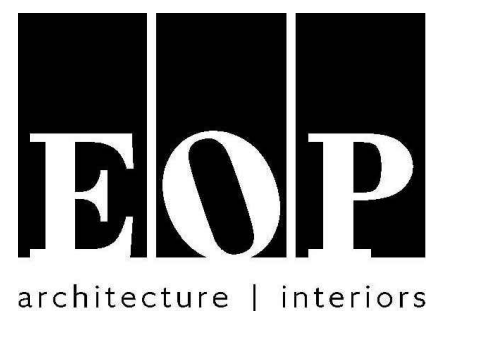
1 THIRD FLOOR PLAN A - PARTIAL DOMESTIC WATER RISER
NOT TO SCALE

CONTINUATION — X — MATCH LETTER
3 — RISER NUMBER
P508 — SHEET NUMBER

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Calvert - Independent Hardware Specifications, LLC.
307 Oakwood Circle
Vine Grove, KY 40175

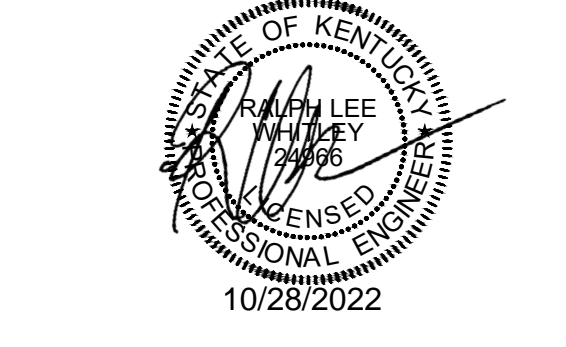
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Job Number 2150
Drawn By EBK
Checked By RLV
Date 09/28/2022

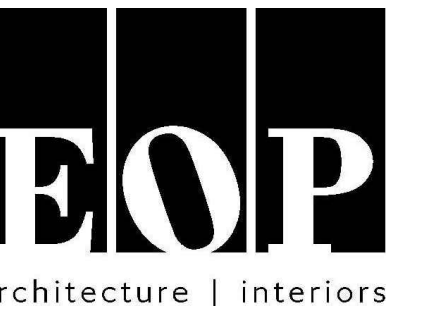


PLUMBING RISERS

ADD #4
10/28/2022

P509

REVISIONS		
#	DATE	DESCRIPTION
1	10/14/22	ADDENDUM 1
3	10/21/22	ADDENDUM 3
4	10/28/22	ADDENDUM 4



PROJECT TEAM

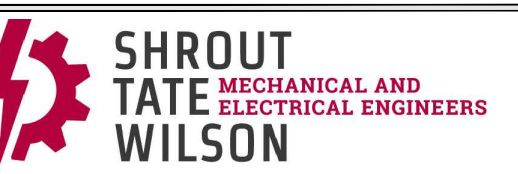
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628 Winchester Rd.
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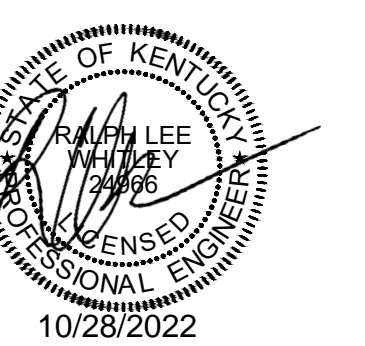
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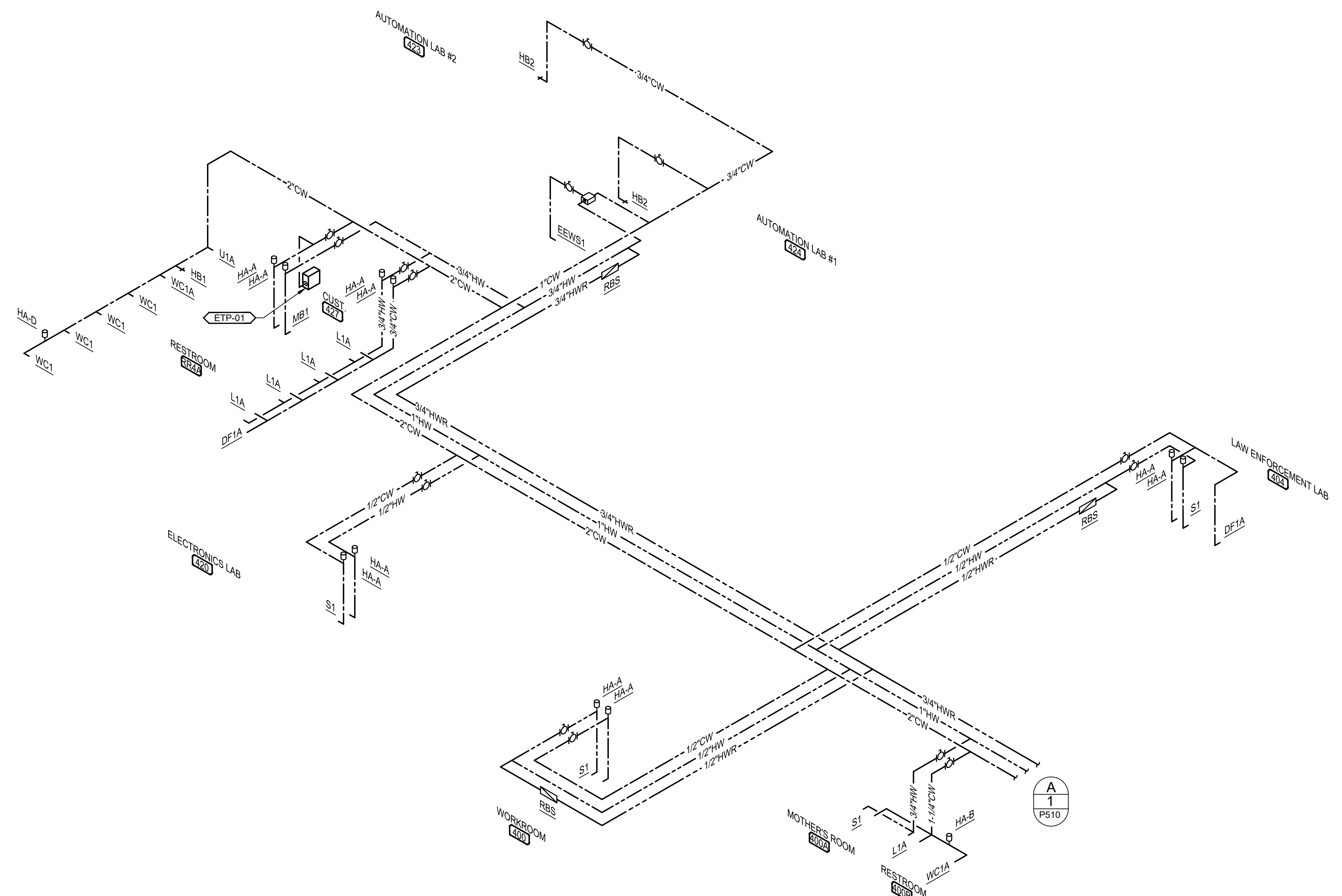
Job Number 2150
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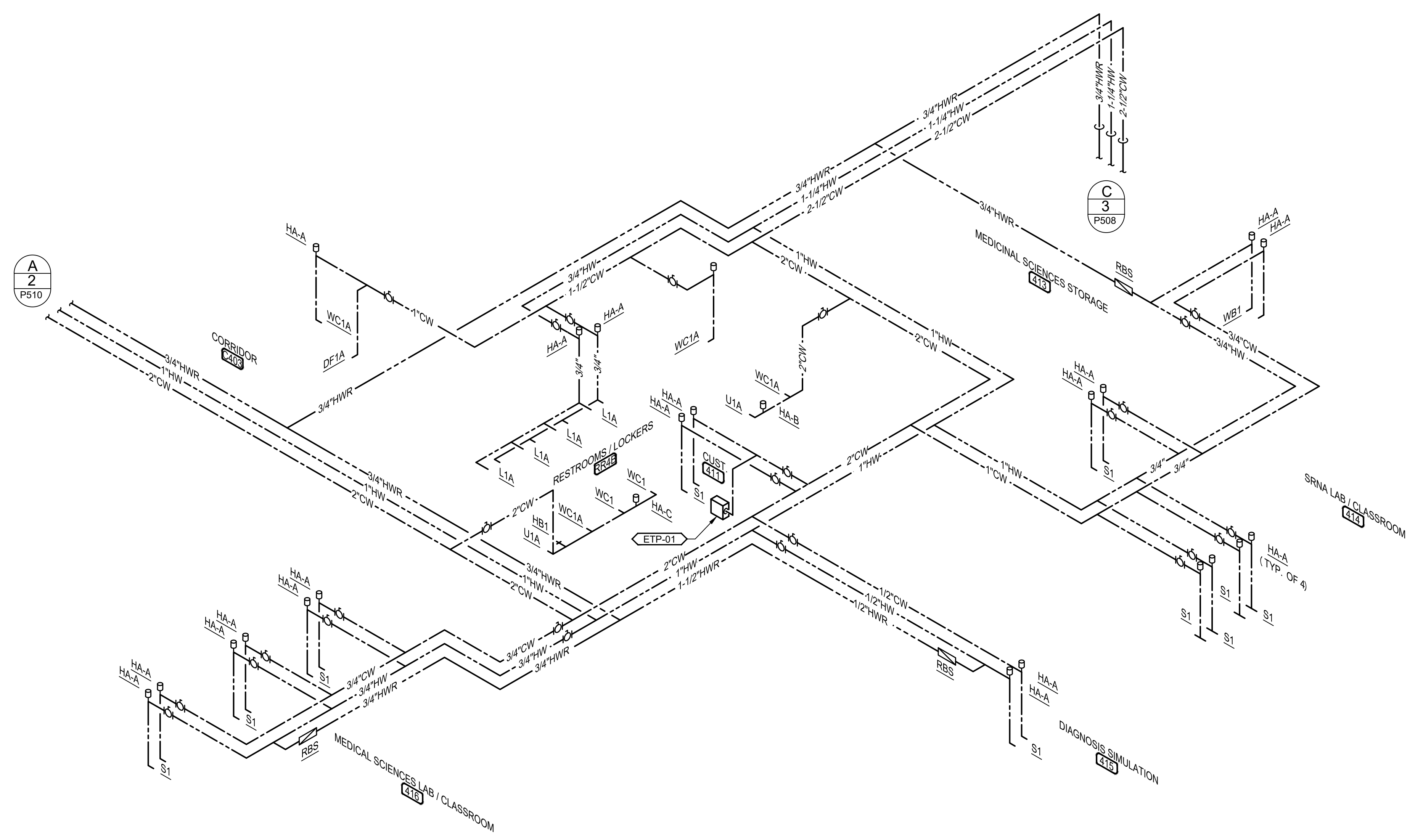
PLUMBING RISERS

ADD #4
10/28/2022

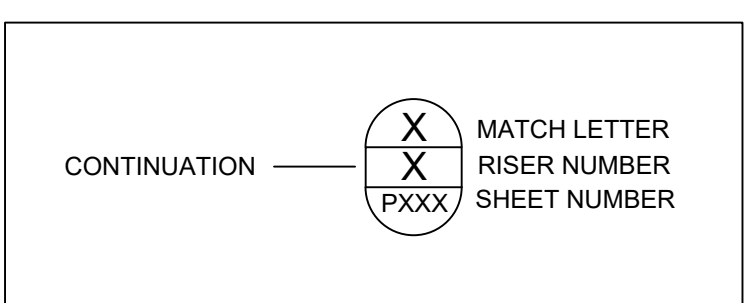
P510

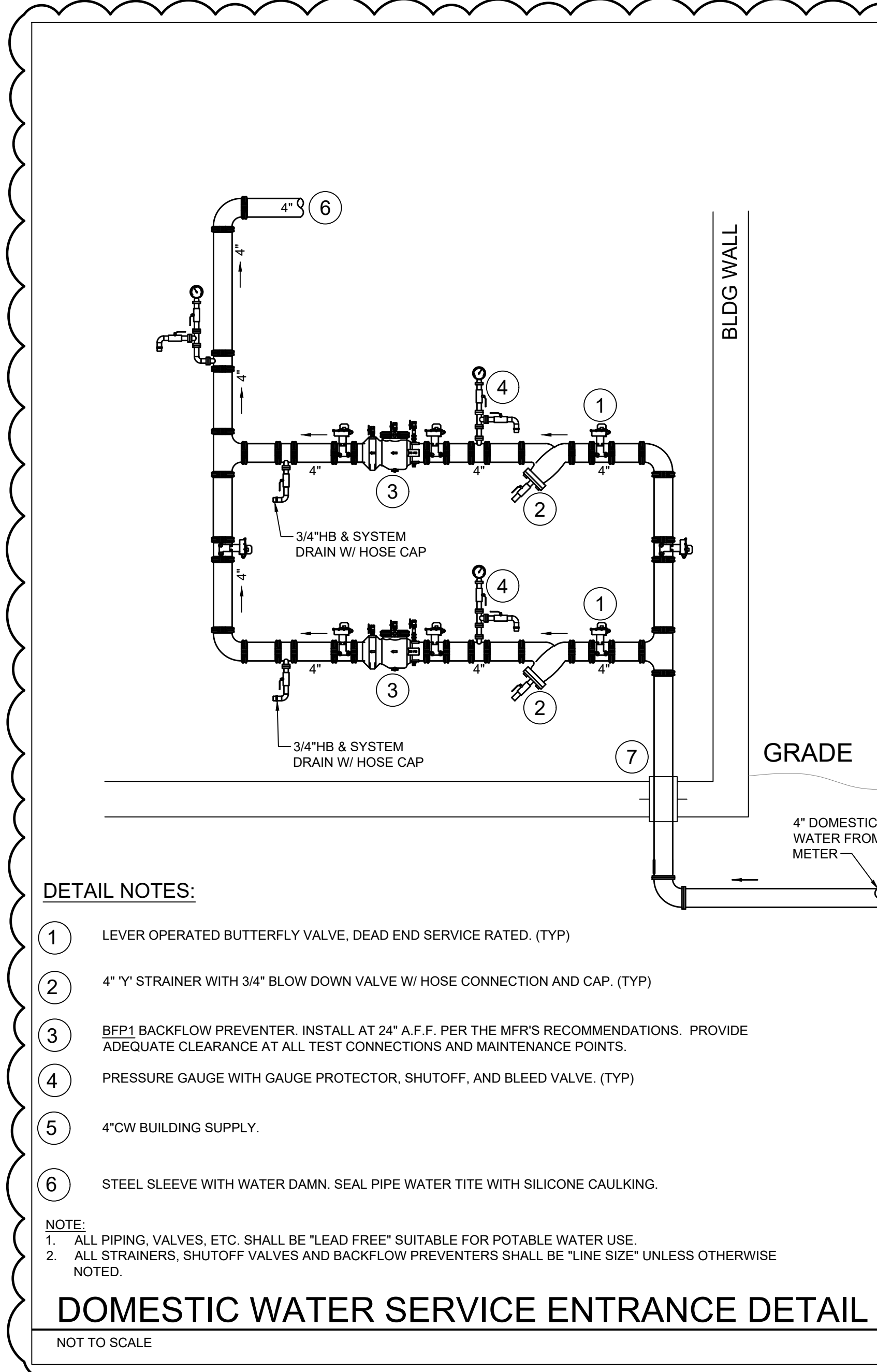
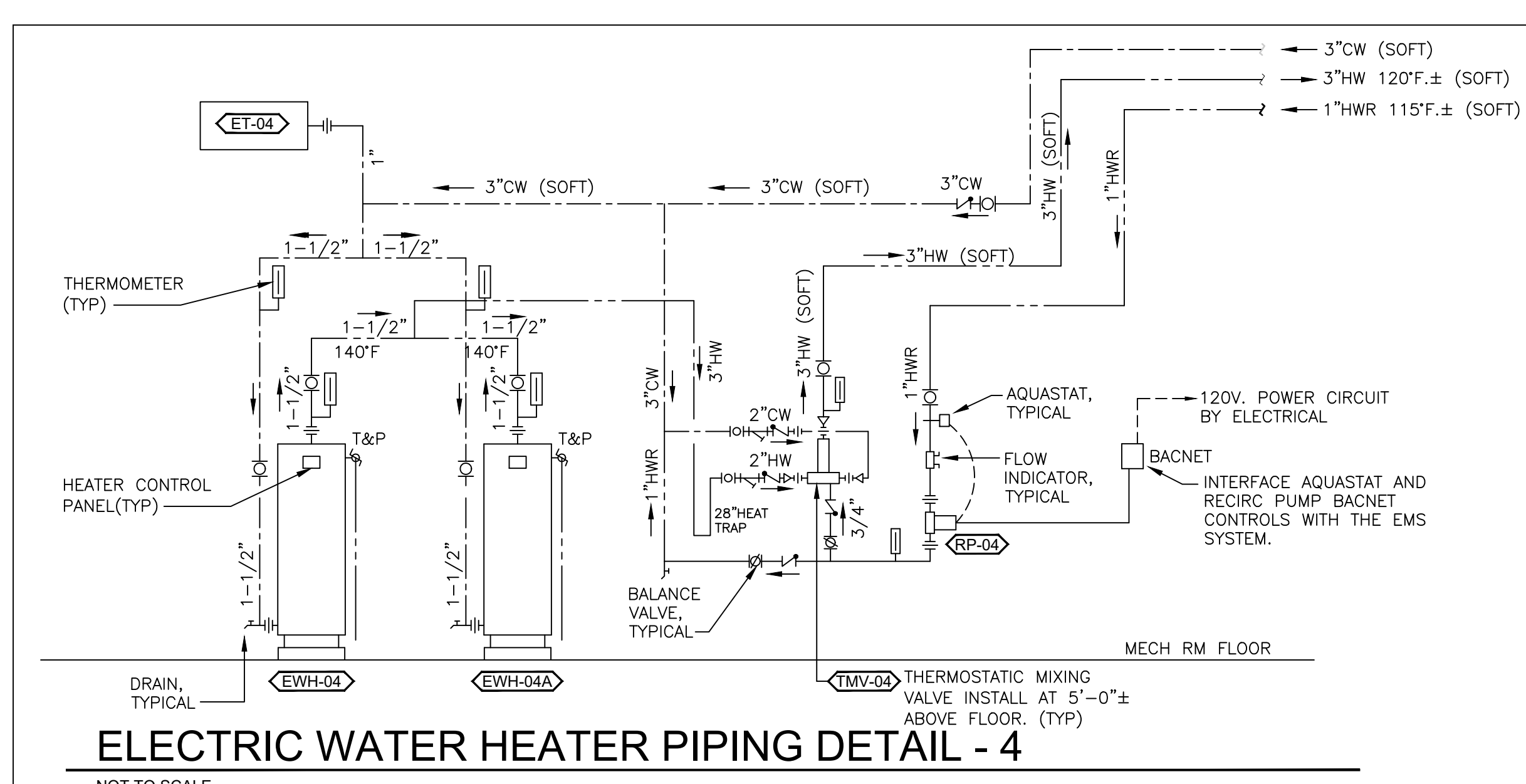
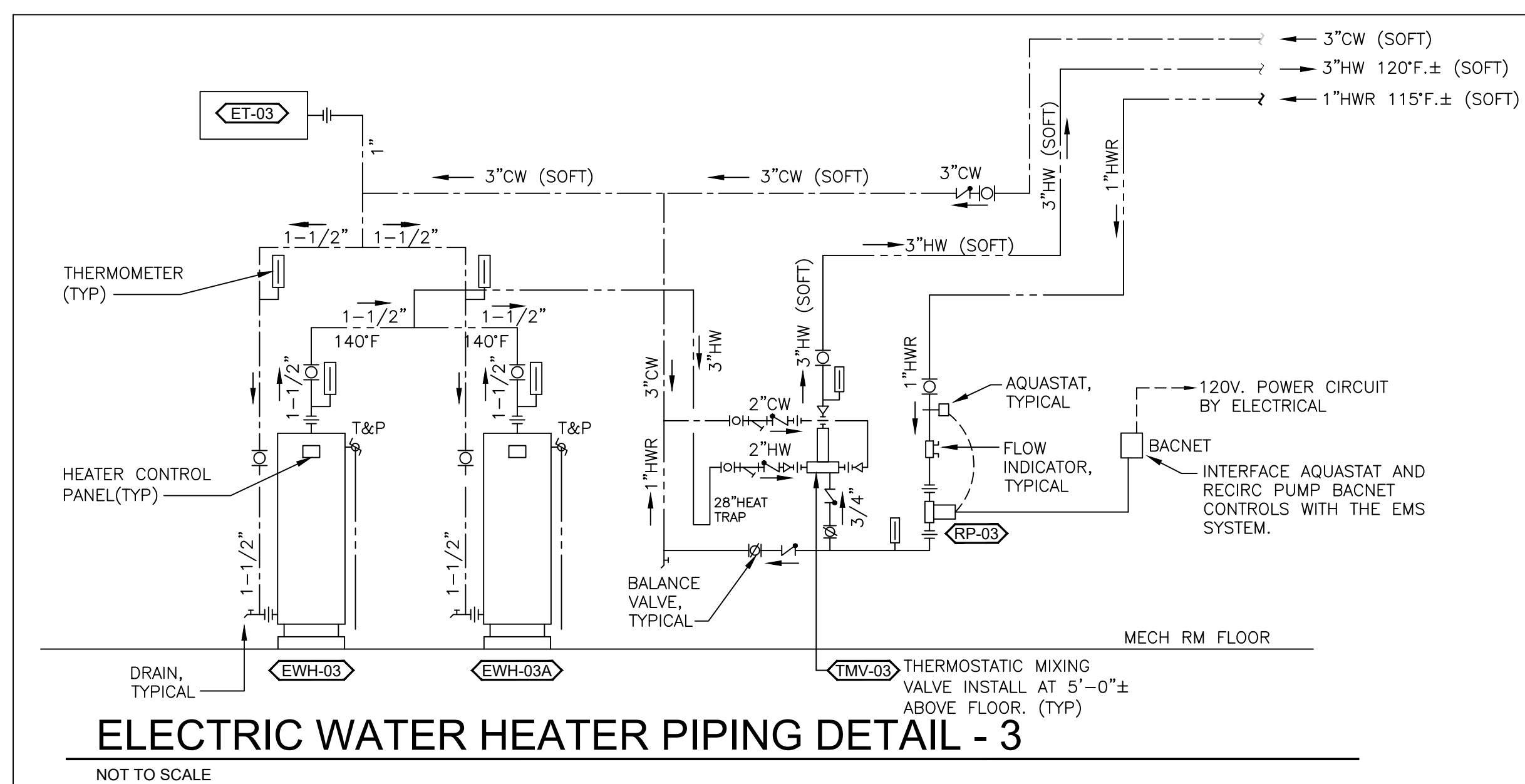
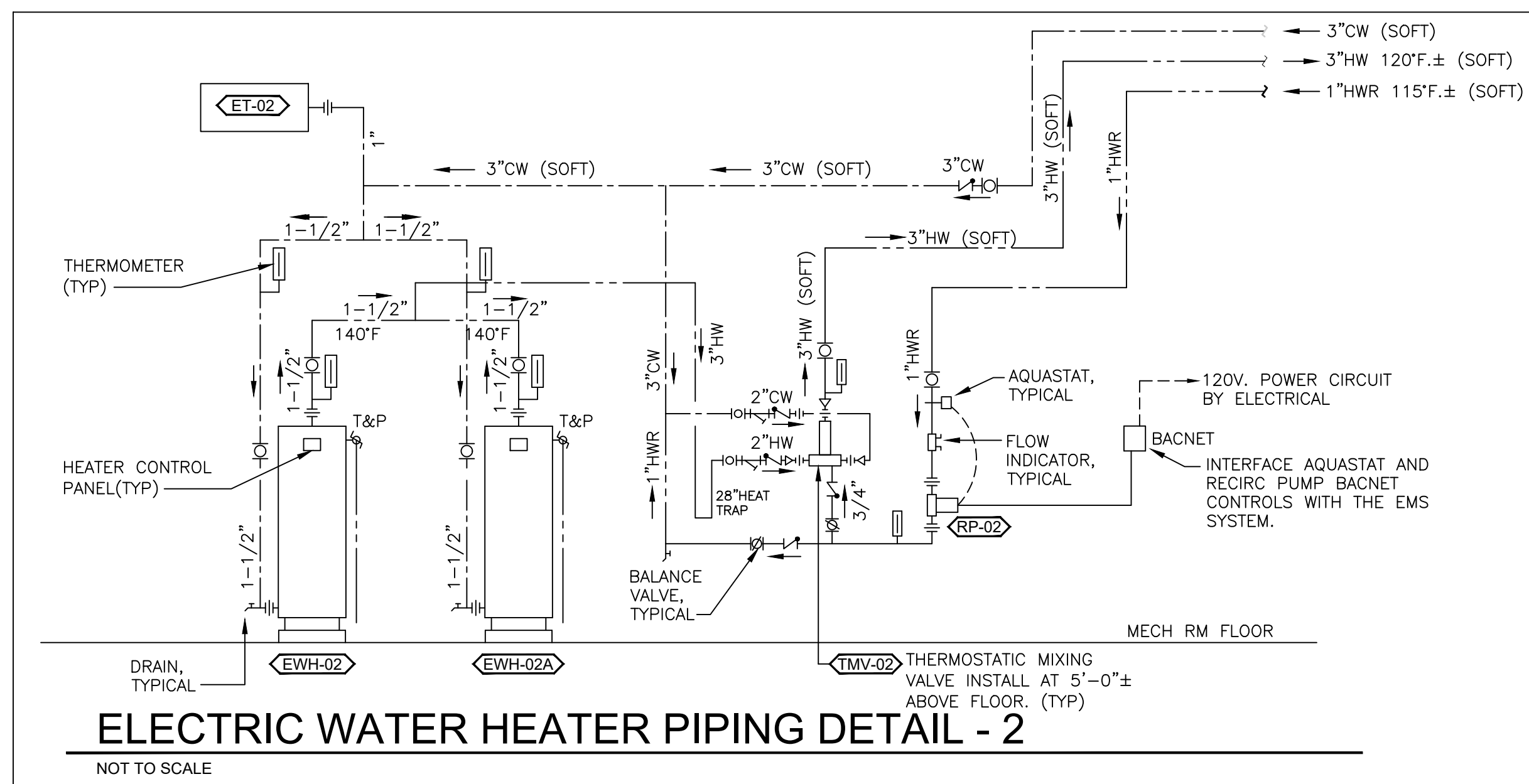
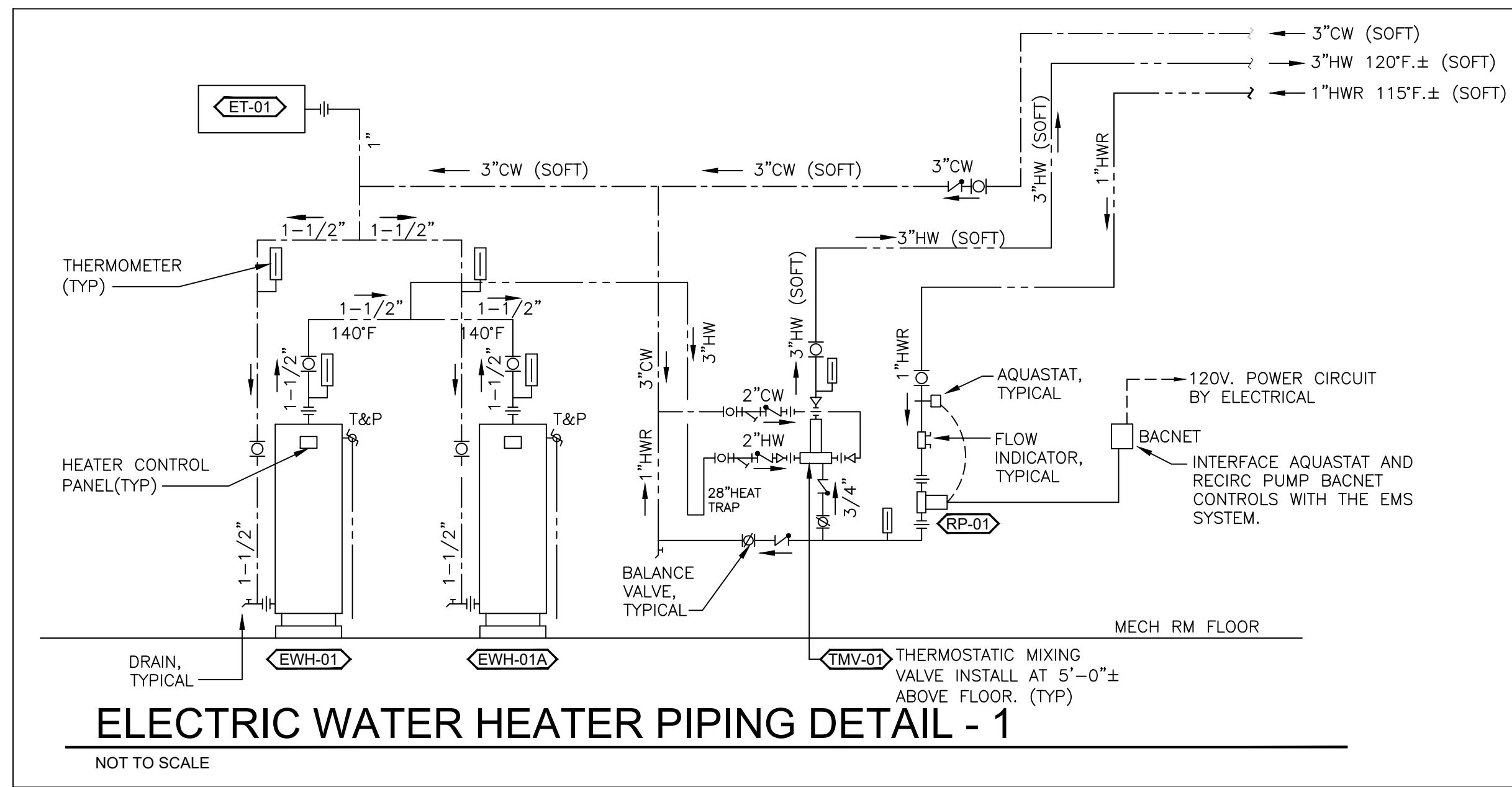


2 FOURTH FLOOR PLAN A - PARTIAL DOMESTIC WATER RISER
NOT TO SCALE



1 FOURTH FLOOR PLAN B - PARTIAL DOMESTIC WATER RISER
NOT TO SCALE

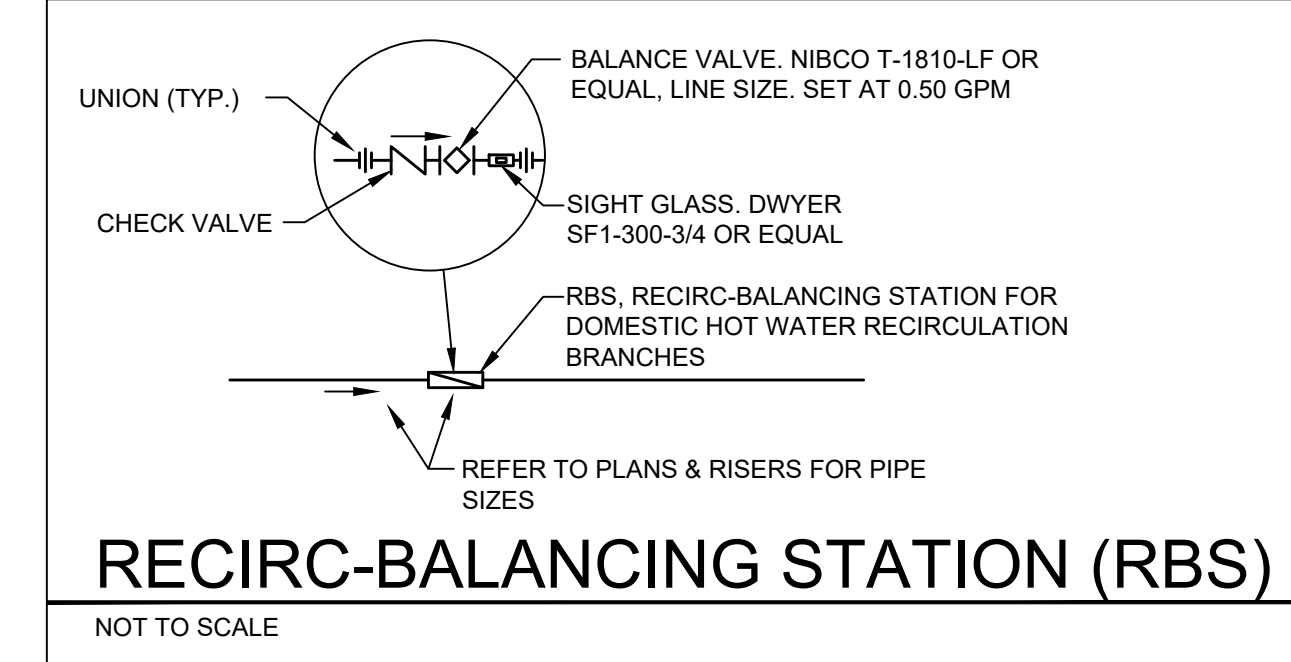
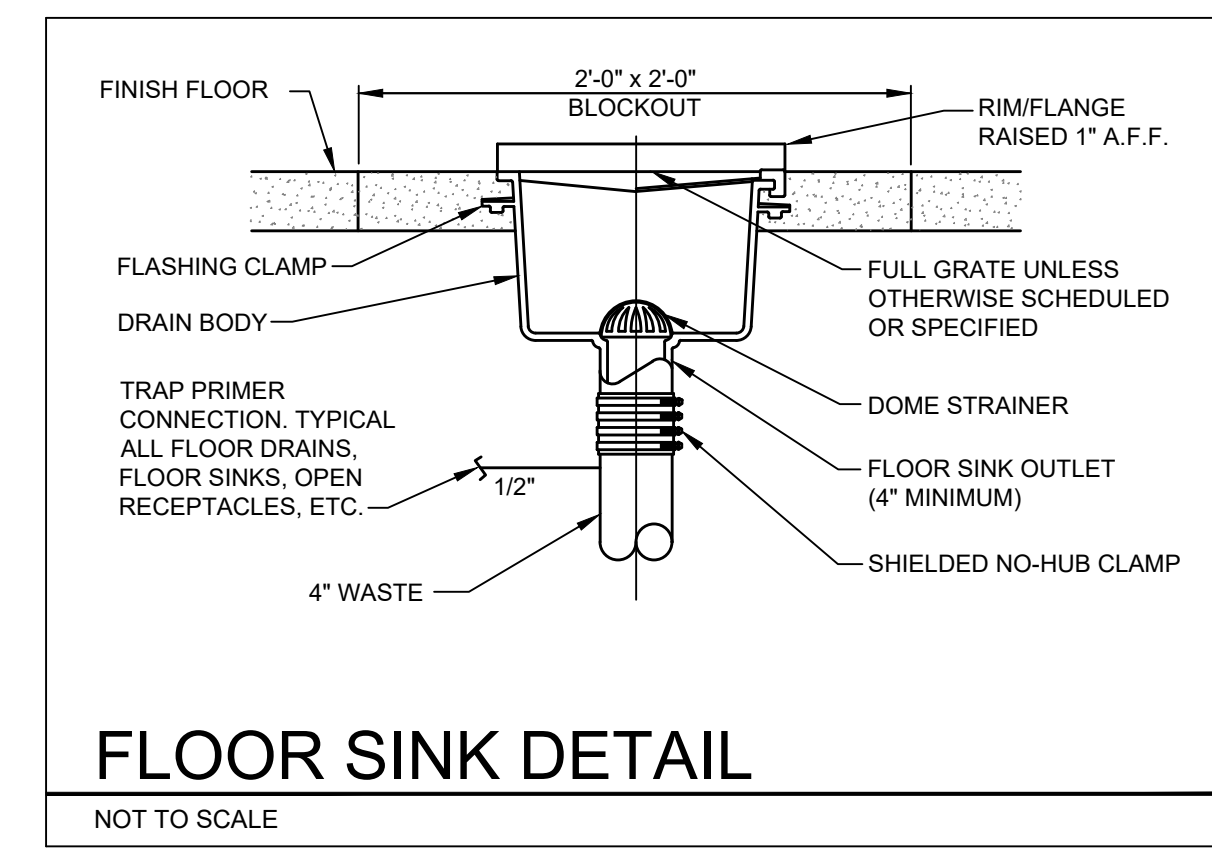
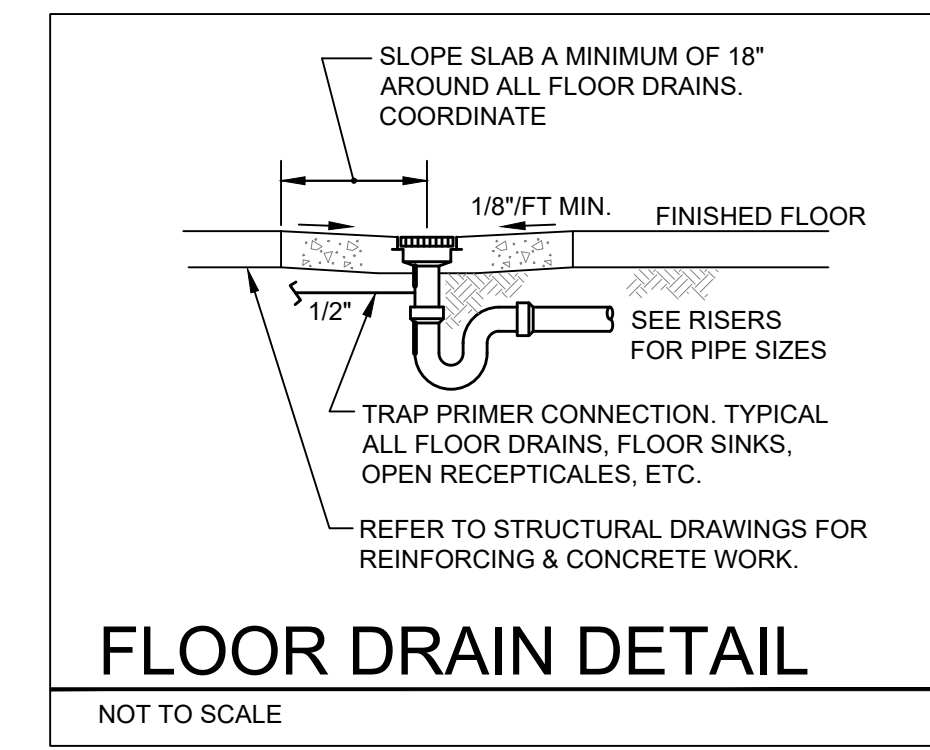




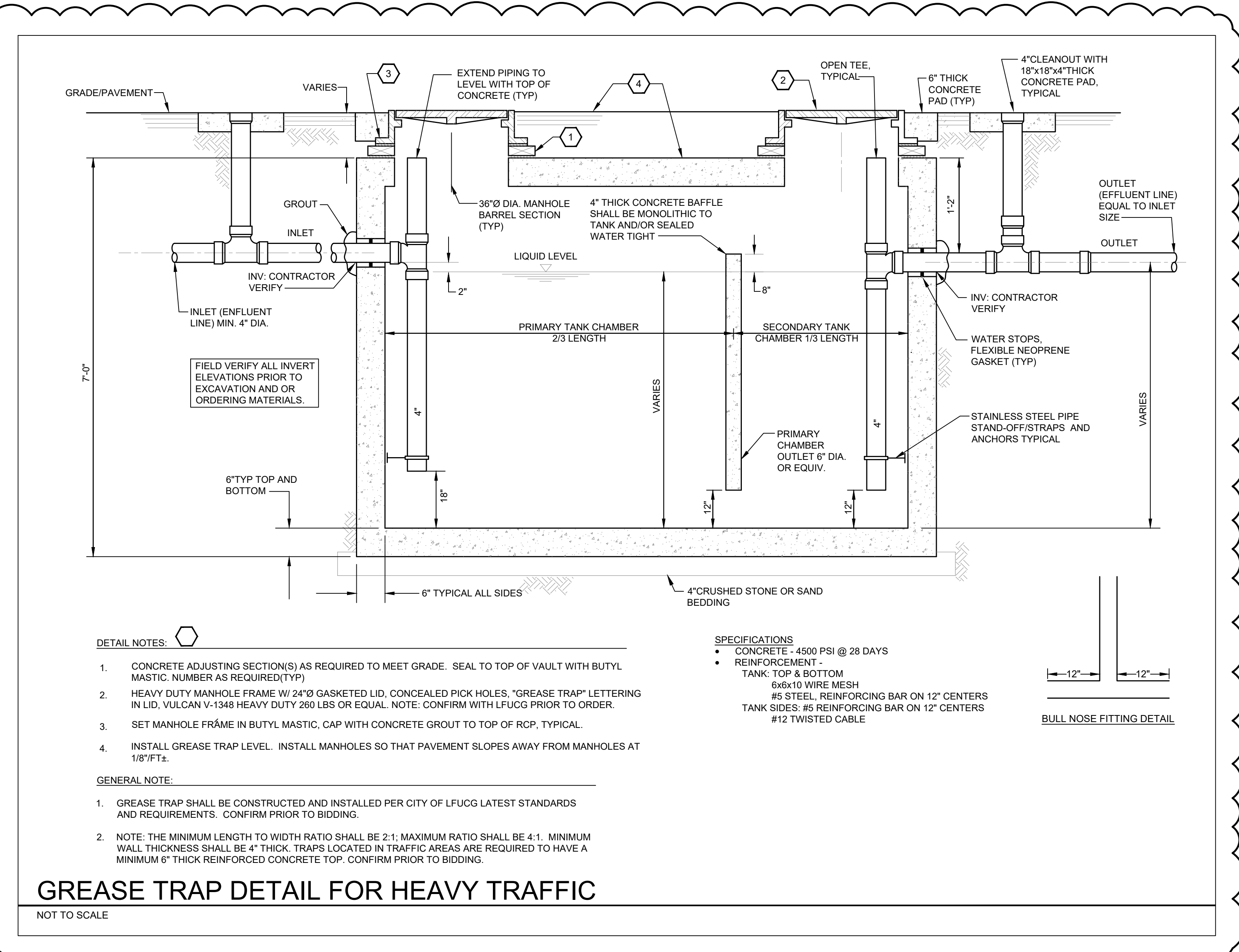
- DETAIL NOTES:**
- LEVER OPERATED BUTTERFLY VALVE, DEAD END SERVICE RATED. (TYP)
 - 4" Y" STRAINER WITH 3/4" BLOW DOWN VALVE W/ HOSE CONNECTION AND CAP. (TYP)
 - BP1 BACKFLOW PREVENTER. INSTALL AT 24" A.F. PER THE MFR'S RECOMMENDATIONS. PROVIDE ADEQUATE CLEARANCE AT ALL TEST CONNECTIONS AND MAINTENANCE POINTS.
 - PRESSURE GAUGE WITH GAUGE PROTECTOR, SHUTOFF, AND BLEED VALVE. (TYP)
 - 4" CW BUILDING SUPPLY.
 - STEEL SLEEVE WITH WATER DAMN. SEAL PIPE WATER TITE WITH SILICONE CAULKING.

NOTE:
 1. ALL PIPING, VALVES, ETC. SHALL BE "LEAD FREE" SUITABLE FOR POTABLE WATER USE.
 2. ALL STRAINERS, SHUTOFF VALVES AND BACKFLOW PREVENTERS SHALL BE "LINE SIZE" UNLESS OTHERWISE NOTED.

ADD #3
10/21/2022



ADD #4
10/28/2022

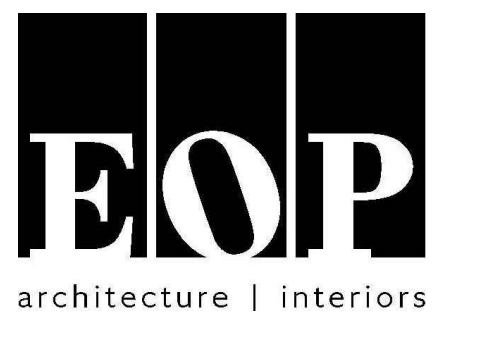


- DETAIL NOTES:**
- CONCRETE ADJUSTING SECTION(S) AS REQUIRED TO MEET GRADE. SEAL TO TOP OF VAULT WITH BUTYL MASTIC NUMBER AS REQUIRED(TYP)
 - HEAVY DUTY MANHOLE FRAME W/ 24\"/>
- GENERAL NOTE:**
- GREASE TRAP SHALL BE CONSTRUCTED AND INSTALLED PER CITY OF LFUGG LATEST STANDARDS AND REQUIREMENTS. CONFIRM PRIOR TO BIDDING.
 - NOTE: THE MINIMUM LENGTH TO WIDTH RATIO SHALL BE 2:1; MAXIMUM RATIO SHALL BE 4:1. MINIMUM WALL THICKNESS SHALL BE 4" THICK. TRAPS LOCATED IN TRAFFIC AREAS ARE REQUIRED TO HAVE A MINIMUM 6" THICK REINFORCED CONCRETE TOP. CONFIRM PRIOR TO BIDDING.

- SPECIFICATIONS**
- CONCRETE: 4500 PSI @ 28 DAYS
 - REINFORCEMENT - TANK: TOP & BOTTOM 6x10 WIRE MESH #5 STEEL, REINFORCING BAR ON 12" CENTERS TANK SIDES; #6 REINFORCING BAR ON 12" CENTERS #12 TWISTED CABLE

NEW COMBINED CTE SCHOOL
 BG# 22-167
 100 Midland Ave,
 Lexington, KY 40508
BID DOCUMENTS

REVISIONS	
#	DATE DESCRIPTION
1	10/14/22 ADDENDUM 1
3	10/21/22 ADDENDUM 3
4	10/28/22 ADDENDUM 4



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IHS
 Calvert - Independent Hardware Specifications, LLC.
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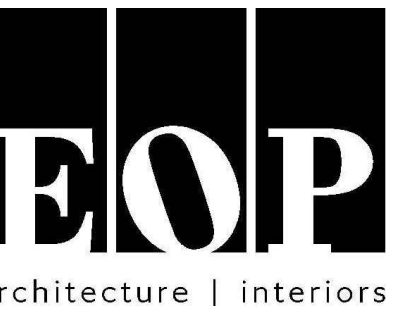


PLUMBING DETAILS

ADD #4
10/24/2022
P512

BID DOCUMENTS

REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
3	10/21/22 ADDENDUM 3
4	10/28/22 ADDENDUM 4



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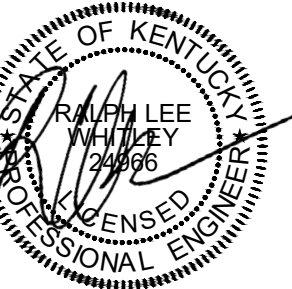
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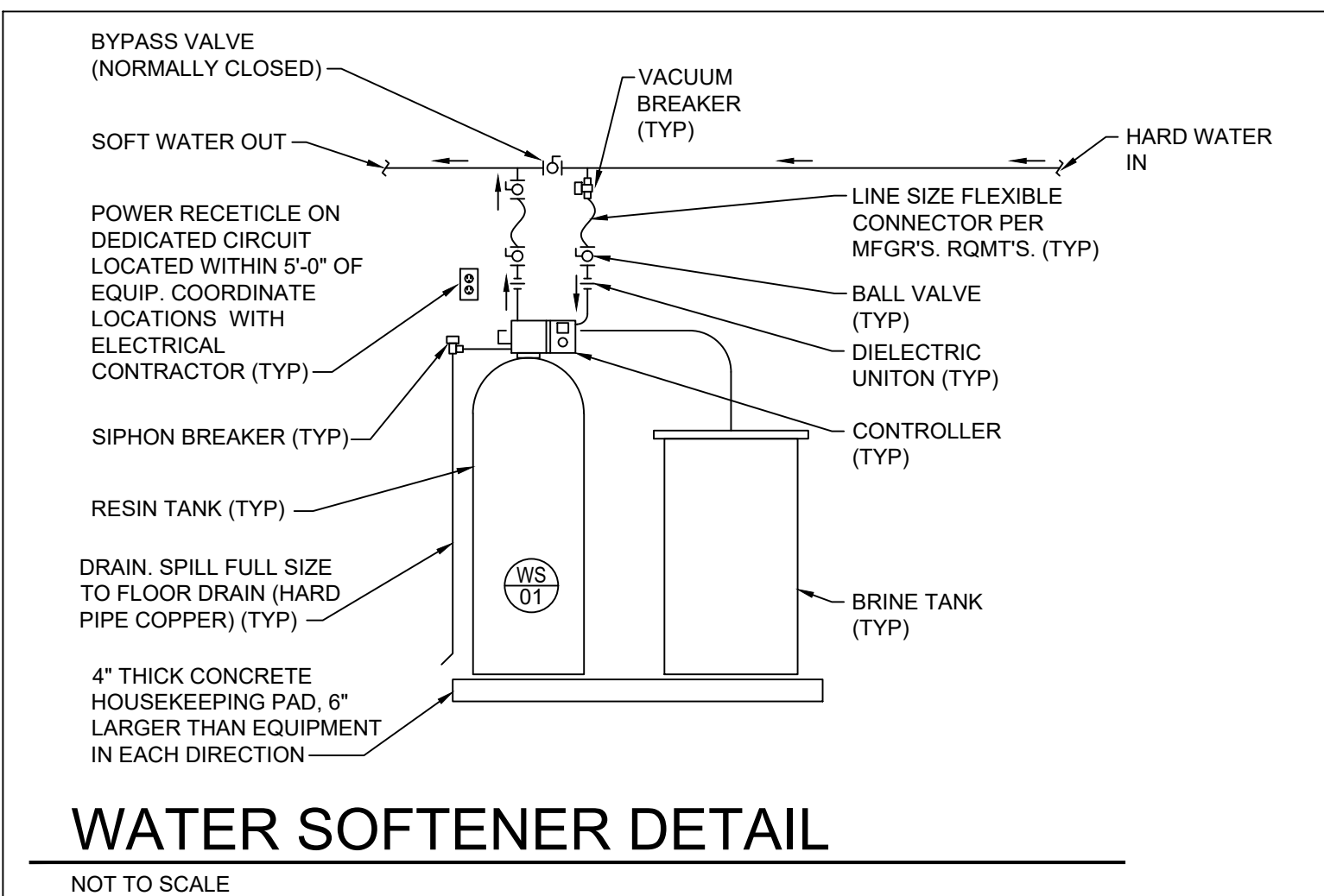
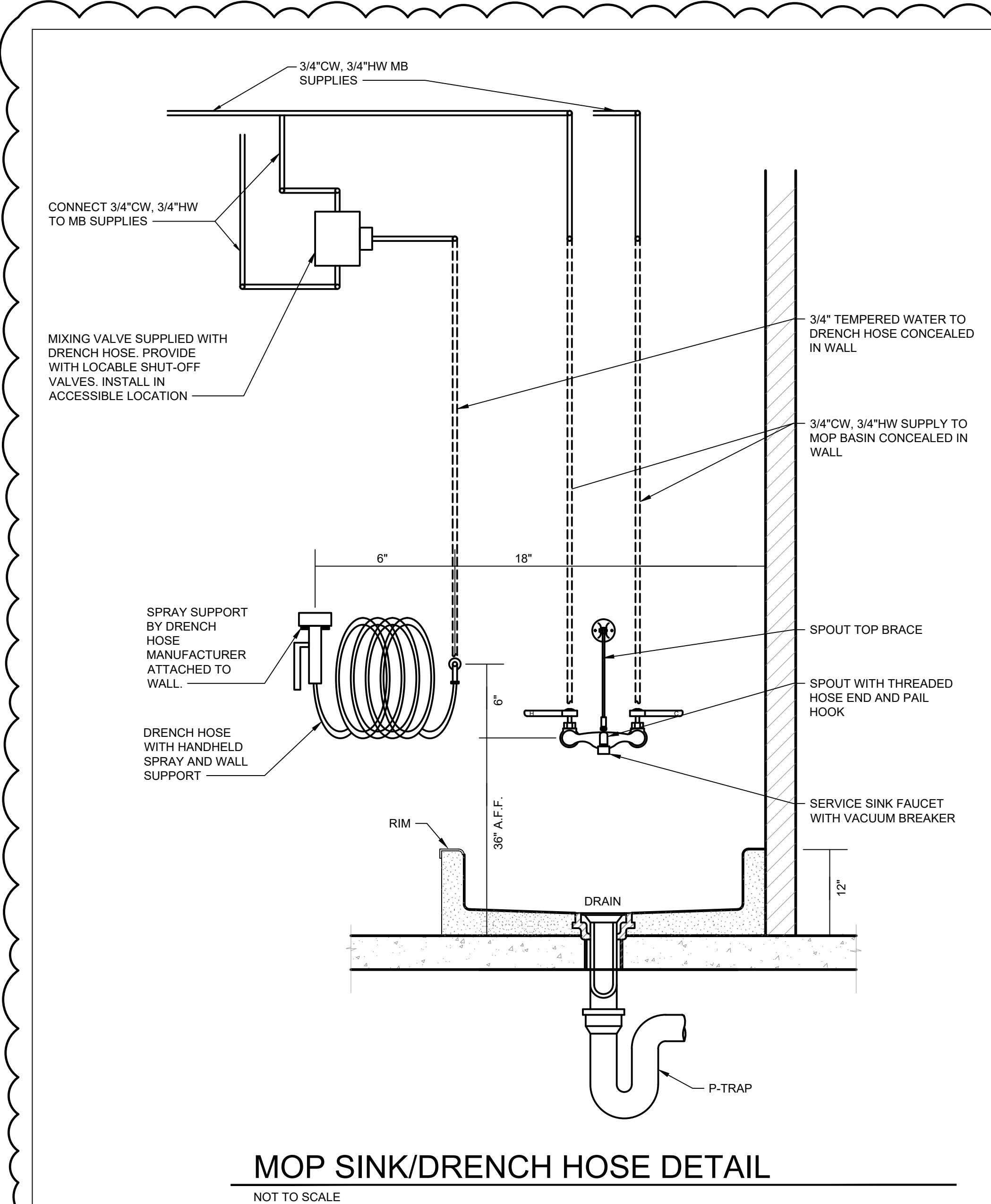
PLUMBING SCHEDULES

ADD #3
10/28/2022

P601

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL / TYPE	TRIM	OW	HW	TRAP	WASTE	VENT	MOUNTING	REMARKS	OTHER ACCEPTABLE MANUFACTURERS	SERIAL NUMBER (TO BE COMPLETED BY CONTRACTOR)
WC1 / WC1A	AMERICAN STANDARD	2257.101 WATER CLOSET, WALL HUNG	FLUSH VALVE; SLOAN 111 REGAL, MANUAL SEAT; AMERICAN STANDARD 5905.100	1"	---	INTEGRAL	4"	2"	WALL HUNG; WC1 - RIM 15" WC1A - RIM 17"	ADA COMPLIANT, ELONGATED BOWL, TOP SPUD, 1.6 GPF MANUAL FLUSH VALVE, EXTRA HEAVY DUTY OPEN FRONT SEAT LESS COVER, WITH CARRIER	WC1/WC1A: KOHLER, CRANE FV; ZURN	
U1 / U1A	AMERICAN STANDARD	6590.001 URINAL, WALL HUNG	FLUSH VALVE; SLOAN 186-1 REGAL, MANJAL	3/4"	---	INTEGRAL	2"	2"	WALL HUNG; U1 - LIP 24" U1A - LIP 17"	TOP SPUD, 1.0 GPF MANUAL FLUSH VALVE, WITH CARRIER	U1/U1A: KOHLER, CRANE FV; ZURN	
L1 / L1A	AMERICAN STANDARD	0355.012 ADA WALL HUNG LAVATORY	FAUCET; AMERICAN STANDARD 6114.116.002, SINGLE LEVER TRIM; CHROME PLATED GRID DRAIN, LOOSE KEY OPERATED SUPPLY STOPS, ADA COMPLIANT INSULATION WRAP.	1/2"	1/2"	1-1/4"	2"	2"	WALL HUNG; RIM 34"	20-1/2" X 18-1/4"; VITREOUS CHINA, 4" CENTERS, BACK AND SIDE SPLASH, HEAVY DUTY CONCEALED ARM CARRIERS, SINGLE HANDLE FAUCET, 0.5 GPM, LESS POP UP	L1/L1A: KOHLER, CRANE FAUCET; ZURN, MOEN, DELTA, CAMBRIDGE, T&S	
L2A	AMERICAN STANDARD	FAUCET ONLY	FAUCET; AMERICAN STANDARD 7385.003 TRIM; CHROME PLATED GRID DRAIN, LOOSE KEY OPERATED SUPPLY STOPS, ADA COMPLIANT INSULATION WRAP.	1/2"	1/2"	1-1/4"	2"	2"	COUNTER SET	4" CENTERS, SINGLE HANDLE FAUCET	FAUCET: ZURN, MOEN, DELTA, CAMBRIDGE, T&S	
S1	ELKAY	LRAD2521.5 ADA SINGLE COMPARTMENT SINK	FAUCET; AMERICAN STANDARD 4205.000 TRIM; CHROME PLATED GRID STRAINER, LOOSE KEY OPERATED SUPPLY STOPS.	1/2"	1/2"	1-1/4"	2"	2"	COUNTER SET	21" X 15-3/4" X 5" INSIDE BOWL, #18 GAUGE 304 STAINLESS STEEL, OFF-CENTER REAR DRAIN, 3 HOLE PUNCH, SINGLE HANDLE FAUCET, 0.5 GPM, LESS POP UP	JUST, AMERICAN STANDARD, KOHLER, MOEN, DELTA, T&S	
S2	ELKAY	LRAD3322.5 ADA TWO COMPARTMENT SINK	FAUCET; AMERICAN STANDARD 4205.001 TRIM; CHROME PLATED GRID STRAINER, LOOSE KEY OPERATED SUPPLY STOPS.	1/2"	1/2"	1-1/4"	2"	2"	COUNTER SET	18" X 13-1/2" X 5" INSIDE BOWLS, #18 GAUGE 304 STAINLESS STEEL, OFF-CENTER REAR DRAIN, 4 HOLE PUNCH, SINGLE HANDLE FAUCET W/ HAND SPRAY	JUST, AMERICAN STANDARD, KOHLER, MOEN, DELTA, T&S	
S3	ADVANCE TABCO	7-PS-54 S.S. SINK, WITH BACKSPLASH MOUNTED GOOSENECK FAUCET, 4" O.C., 1-1/2" BASKET DRAIN, CHROME PLATED P-TRAP	304 S.S. CONSTRUCTION, ONE-PIECE BOWL DESIGN, SPLASH MOUNTED GOOSENECK FAUCET, 4" O.C., 1-1/2" BASKET DRAIN, CHROME PLATED P-TRAP	1/2"	1/2"	1-1/2"	2"	2"	WALL HUNG	COORDINATE FINAL INSTALLATION WITH ARCHITECT	JOHN BOOS, JUST MFG.	
DF1A	ELKAY	VRCTLRDOWSK HILO DRINKING FOUNTAIN WITH BOTTLE FILLER	VANDAL-RESISTANT, STAINLESS STEEL, NON-FILTERED, NON-REFRIGERATED, PROVIDE MODEL 98524C CANE APRON.	1/2"	---	1-1/4"	2"	2"	WALL MOUNTED	ELECTRONIC BOTTLE FILLER BUTTON WITH MECHANICAL FRONT BUBBLER BUTTON. FIVE YEAR LIMITED WARRANTY, ADA COMPLIANT	HALSEY-TAYLOR, HAWS, ACORN	
WF1	ACORN	3424-ES-ADA-1-H-ST 4 PERSON WASH FOUNTAIN	TRIM; ES CONTOURED BASE, MANUAL OPERATED, ST SINGLE TEMPERATURE VALVE, LOOSE KEY OPERATED SUPPLY STOPS.	1/2"	1/2"	1-1/2"	2"	2"	RIM 34"		ACORN, WILLOUGHBY, SLOAN	
MB1	FIAT	ADD #3 10/21/2022 TSB9000 TERRAZZO MOP SINK 12" DEEP WITH 6" DROP FRONT	FAUCET; T&S BRASS B-0665-85TR-963, CONTINUOUS PRESSURE VACUUM BREAKER, TOP BRACE, PAIL HOOK TRIM; 832AA HOSE AND HANGER, M50 WALL GUARDS ACCESSORY; GAURIAND G5012 DRENCH HOSE UNIT	3/4"	3/4" + 1/2" TEPID	3"	3"	2"	FLOOR SET ADD #3 10/21/2022	24" X 24" X 12" w/ 6" DROP FRONT, STAINLESS STEEL, CAPS ON ALL SIDES, ACCESSIBLE CHECK VALVES ON SUPPLIES, PROVIDE THERMOSTATIC MIXING VALVE FOR DRENCH HOSE.	STERN WILLIAMS, MUSTEE	
EEW1	BRADLEY	S19-310DC PEDESTAL MOUNTED COMBINATION DRENCH SHOWER & EYEWASH	TRIM; S19-2200 NAVIGATOR EFX80 THERMOSTATIC MIXING VALVE	1"	1"	---	---	---	PEDESTAL FLOOR SET	1-1/4" TEMPERED WATER FROM VALVE TO FIXTURE. FIXTURES LOCATED IN KITCHEN AND CULINARY SHALL BE HARD PIPED DWV.	EEW: GUARDIAN, HAWS	
EW1	BRADLEY	S19214 PEDESTAL MOUNTED EYEWASH, PLASTIC BOWL AND COVER	TRIM; S19-2000 NAVIGATOR EFX8 THERMOSTATIC MIXING VALVE.	1/2"	1/2"	---	---	---	PEDESTAL FLOOR SET	1/2" TEMPERED WATER FROM VALVE TO FIXTURE. FIXTURES LOCATED IN KITCHEN AND CULINARY SHALL BE HARD PIPED DWV.	EW: GUARDIAN, HAWS	
WB1	PRECISION PLUMBING PRODUCTS	MM-500-MLB METAL WASHING MACHINE OUTLET BOX	TRIM; QUARTER TURN BALL VALVES, WITH HAMMER ARRESTORS	1/2"	1/2"	2"	2"	2"	48" AFF	WITH METAL FRAME, SUPPLY CONNECTION TYPE TO MATCH PIPING SYSTEM	WB: ZURN, GUY GRAY, OATEY, JAY R SMITH	
IMB1	PRECISION PLUMBING PRODUCTS	MM-500-MIMB METAL WASHING ICE MAKER OUTLET BOX	TRIM; QUARTER TURN BALL VALVES, WITH HAMMER ARRESTORS	1/2"	---	---	---	---	48" AFF	WITH METAL FRAME, SUPPLY CONNECTION TYPE TO MATCH PIPING SYSTEM	IMB: ZURN, GUY GRAY, OATEY, JAY R SMITH	
HB1	WOODFORD	B24, HOSE BIBB, BOXED	WITH VACUUM BREAKER, POLYCARBONATE WHEEL HANDLE AND LOOSE TEE KEY	3/4"	---	---	---	---	18" AFF	BOXED, RECESSED IN WALL	HB1: MURDOCK, ZURN	
HB2	WOODFORD	24, HOSE BIBB, EXPOSED	WITH VACUUM BREAKER, METAL HANDLE	3/4"	---	---	---	---	36" AFF	EXPOSED	HB2: MURDOCK, ZURN	
WH1	WOODFORD	MODEL B68 FREEZELESS WALL HYDRANT, ENCLOSED BOX	FLIP DOWN S.S. COVER, ALL BRONZE INTERIOR PARTS, REPLACEABLE BRONZE SEAT AND WASHER, LOOSE TEE KEY	3/4"	---	---	---	---	18" A.F.G.	WALL MOUNTED	WH1: WATTS, MURDOCK	
BEP-01	FEBCO (A WATTS BRAND)	MASTER SERIES LF880V-OSY Z-PATTERN, REDUCED PRESSURE ZONE BACK FLOW ASSEMBLY	DUCTILE IRON BODY, OSY SHUT-OFF VALVES, STRAINER, FULL SIZE AIR GAP FITTING.	4"	---	---	---	---	24" A.F.F.	SPILL AIR GAP FULL SIZE THRU WALL AND ELL. DOWN	BFP: WATTS, AMES SILVER BULLET, APOLLO, WILKENS ZURN	
FD1	JOSAM	30004-A FLOOR DRAIN	7" SATIN FINISH BRONZE STRAINER, 1/2" TRAP PRIMER CONNECTION	1/2"	---	---	4"	---	FLUSH IN FLOOR	TRAP PRIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, ZURN	
FD2	JOSAM	37810 FLOOR DRAIN, MEDIUM SUMP, HEAVY-DUTY TOP, REMOVABLE SEDIMENT BUCKET	12" DUCTILE IRON STRAINER, 1/2" PRIMER CONNECTION	1/2"	---	---	4"	---	FLUSH IN FLOOR	TRAP PRIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, ZURN	
FD3	JOSAM	37810 FLOOR DRAIN, MEDIUM SUMP, HEAVY-DUTY TOP, REMOVABLE SEDIMENT BUCKET, HINGED GRATE, ACID RESISTANT EPOXY COATING	12" DUCTILE IRON STRAINER, 1/2" PRIMER CONNECTION, SEDIMENT BUCKET	1/2"	---	---	4"	---	FLUSH IN FLOOR	TRAP PRIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, ZURN	
FS1	JOSAM	49324A-LF FLOOR SINK	CAST IRON BODY WITH ACID RESISTANT EPOXY COATED INTERIOR, LESS FLANGE, 3/4 GRATE	---	---	---	4"	---	RIM 1" AFF	TRAP PRIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, ZURN	
TD1	JOSAM	PRO-PLUS 200C, 8" INTERNAL WIDTH, POLYMER TRENCH DRAIN, WITH DUCTILE IRON CLASS "C" GRATE	BOTTOM OUTLET, END CAPS, SLOPED CHANNEL, SUPPORT BRACKETS CAPABLE OF ACCEPTING REBAR.	---	---	---	4"	---	FLUSH IN FLOOR	TRAP PRIMER PIPING MAY BE PEX TYPE.	WATTS, JAY R SMITH, MIFAB, WADE, ZURN	
OR	---	PIPE HUB RIM 2" A.F.F.	---	---	---	2" OR 4" SEE RISER	2" OR 4" SEE RISER	2"	RIM 2" A.F.F.	PIPE HUB ONE SIZE LARGER THAN WASTE SIZE. SEE RISER	---	
CB1	WADE	5810-H20 OIL/SEDIMENT INTERCEPTOR	24"x24" SQ., TWO PIECE DUCTILE IRON	---	---	---	4"	2"	SEE PLANS	FABRICATED, ACID RESISTANT COATED (A.R.C.) STEEL, H2O LOAD RATED, INTEGRAL TRAP	JOSAM, MIFAB	
AP	PRECISION PLUMBING PRODUCTS	S.S. ACCESS PANEL F-1212SS	12"x12" ACCESS PANEL, KEYED LOCK CYLINDER, VANDAL RESISTANT	---	---	---	---	---	SEE PLANS	ALL LOCATIONS SHALL BE REVIEWED AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION	WADE, MIFAB	
CRD1	WADE	3042 COMBINATION MAIN/OVERFLOW ROOF DRAIN, CAST IRON, ALUMINUM DOME, 12" DIA., INSIDE CALK, ADJUSTABLE DRAIN EXTENSION, UNDERDECK CLAMP.	BOTTOM OUTLET, END CAPS, SLOPED CHANNEL, SUPPORT BRACKETS CAPABLE OF ACCEPTING REBAR.	---	---	---	8"	---	ROOF	---	JOSAM, ZURN	
CRD2	WADE	3042 COMBINATION MAIN/OVERFLOW ROOF DRAIN, CAST IRON, ALUMINUM DOME, 12" DIA., INSIDE CALK, ADJUSTABLE DRAIN EXTENSION, UNDERDECK CLAMP.	BOTTOM OUTLET, END CAPS, SLOPED CHANNEL, SUPPORT BRACKETS CAPABLE OF ACCEPTING REBAR.	---	---	---	4"	---	ROOF	---	JOSAM, ZURN	
DSN	ZURN	Z-189 DOWNSPOUT NOZZLE WITH FLAPPER	ALL ALUMINUM BODY WITH POWDER COATED WALL FLANGE, PERFORATED HINGED FLAPPER	---	---	---	2" - 10"	---	SEE PLANS	LINE SIZE, REFER TO PLANS. GASKET FOR CAST IRON OR PVC CONNECTION.	JOSAM, MIFAB	
ECO	JOSAM	55000-1-Y INTERIOR CLEANOUT	COATED CAST IRON BODY, WITH SATIN FINISH NIKALOY TOP	---	---	---	2"-4"	---	FLOOR	LINE SIZE UP TO 4", 4" MAXIMUM. COORDINATE FLOOR TYPE WITH ARCH. DRAWINGS. COLOR/FINISH SHALL BE SELECTED BY ARCHITECT.	WADE, ZURN	
ECO	JOSAM	55000-Y HEAVY DUTY EXTERIOR CLEANOUT	COATED CAST IRON	---	---	---	2"-4"	---	GROUND	LINE SIZE UP TO 4", 4" MAXIMUM. COORDINATE FLOOR TYPE WITH ARCH. DRAWINGS. COLOR/FINISH SHALL BE SELECTED BY ARCHITECT.	WADE, ZURN	
WCO	JOSAM	58600-CO-VP WALL CLEANOUT	D.C.C.I. BODY GAS/WATER TIGHT TAPERED THREAD PLUS, ROUND STAINLESS STEEL ACCESS COVER WITH SECURING SCREW	---	---	---	2"-4"	---	WALL	LINE SIZE UP TO 4", 4" MAXIMUM. COORDINATE FLOOR TYPE WITH ARCH. DRAWINGS. COLOR/FINISH SHALL BE SELECTED BY ARCHITECT.	WADE, ZURN	



THERMOSTATIC MIXING VALVE SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	FLOW RANGE GPM	FLOW AT 5 PSIG DROP	OUTLET TEMP °F (ADJ.)	CONNECTIONS	REMARKS	SERIAL NUMBER (TO BE COMPLETED BY CONTRACTOR)
TMV-01	LAWLER	805-96	SEE PLANS	5 - 96	64	120°	2" / 2"	1,2,3,4	
TMV-02	LAWLER	803-60	SEE PLANS	3 - 60	43	120°	2" / 2"	1,2,3,4	
TMV-03	LAWLER	805-96	SEE PLANS	5 - 96	64	120°	2" / 2"	1,2,3,4	
TMV-04	LAWLER	803-60	SEE PLANS	3 - 60	43	120°	2" / 2"	1,2,3,4	

REMARKS:
1. LOCKABLE BRASS BALL VALVES AT INLET CONNECTIONS AND TEMPERATURE GAUGE WITH PETCOCK AT OUTLET
2. ASSE 1017 COMPLIANT, LEAD FREE, SOLID BRASS MASTER MIXING VALVE WITH INTEGRAL CARTRIDGE STYLE CHECKS AND SCREENS
3. FACTORY TEST CONNECTION WITH GARDEN HOSE CONNECTION, SHUT-OFF AND THERMOMETER
4. ALL BRASS FINISHES.
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: LAWLER, STINGRAY SYSTEMS, POWERS, LEONARD. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	TANK CAPACITY (GAL)	RECOVERY AT 100°F RISE	EXPANSION TANK #	CIRCULATING PUMP #	MIXING VALVE #	KW	V / Ø / Hz	MCA	MOCP	REMARKS	SERIAL NUMBER (TO BE COMPLETED BY CONTRACTOR)
EWH-01	AO SMITH	DRE-52-18	SEE PLANS	GENERAL	50	74	ET-01	RP-01	TMV-01	18	208/3/60	62.5	65	ALL	
EWH-01A	AO SMITH	DRE-52-18	SEE PLANS	GENERAL	50	74	ET-01	RP-01	TMV-01	18	208/3/60	62.5	65	ALL	
EWH-02	AO SMITH	DRE-52-36	SEE PLANS	GENERAL	50	74	ET-01	RP-01	TMV-01	36	208/3/60	124.9	125	ALL	
EWH-02A	AO SMITH	DRE-52-36	SEE PLANS	GENERAL	50	74	ET-01	RP-01	TMV-01	36	208/3/60	124.9	125	ALL	
EWH-03	AO SMITH	DRE-52-36	SEE PLANS	GENERAL	50	74	ET-01	RP-01	TMV-01	36	208/3/60	124.9	125	ALL	
EWH-03A	AO SMITH	DRE-52-36	SEE PLANS	GENERAL	50	74	ET-01	RP-01	TMV-01	36	208/3/60	124.9	125	ALL	
EWH-04	AO SMITH	DRE-52-18	SEE PLANS	GENERAL	50	74	ET-01	RP-01	TMV-01	18	208/3/60	62.5	65	ALL	
EWH-04A	AO SMITH	DRE-52-18	SEE PLANS	GENERAL	50	74	ET-01	RP-01	TMV-01	18	208/3/60	62.5	65	ALL	

REMARKS:
1. PROVIDE WITH ASME APPROVED TEMPERATURE AND PRESSURE RELIEF VALVE.
2. SET AT 140 DEGREES.
3. SURFACE MOUNTED THERMOSTAT.
4. ANODE RODS.
5. BRASS DRAIN VALVE.
OTHER ACCEPTABLE MANUFACTURERS INCLUDE: STATE, LOCHINVAR, BRADFORD WHITE, RHEEM. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ADD #3
10/21/2022

STRUCTURAL QUALITY ASSURANCE PLAN

GENERAL

THE NEW STRUCTURE TO BE CONSTRUCTED IS ASSIGNED BY THE KENTUCKY BUILDING CODE, 2018 EDITION, TO SEISMIC USE GROUP AND SEISMIC DESIGN AS SPECIFIED. AS SUCH, THE BUILDING CODE MANDATES SPECIAL INSPECTION (SECTION 1704.4), SPECIAL INSPECTIONS FOR WIND RESISTANCE (SECTION 1705.11), SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (SECTION 1705.12), STRUCTURAL OBSERVATION FOR SEISMIC RESISTANCE (SECTION 1704.6.1) AND STRUCTURAL OBSERVATIONS FOR WIND REQUIREMENTS (SECTION 1704.6.2). STRUCTURAL QUALITY ASSURANCE PLAN SPECIFICALLY IDENTIFIES THE RESPONSIBILITIES OF THE CONTRACTOR AND THE SPECIAL INSPECTOR IN PERFORMING THE REQUIRED TESTING AND INSPECTION OF THE STRUCTURAL WORK.

CONTRACTOR RESPONSIBILITIES

In accordance with Section 1704.4 of the Building Code, the Contractor shall submit to the Building Official and the Architect a written statement of responsibility that contains the following:

- Acknowledgement of awareness of the special requirements contained within this Structural Quality Assurance Plan.
- Acknowledgement that control shall be exercised to obtain conformance with the construction documents approved by the Building Official.
- Procedures for exercising control with the Contractor's organization, the method and frequency of reporting, and the distribution of reports.
- Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.

The Structural Testing / Inspection Agency that is to act as the Special Inspector will be hired by the Owner.

Contractor shall pay for any additional structural testing/inspection required for work or materials not complying with the Construction Documents due to negligence or nonconformance and shall pay for any additional structural testing/inspection required for his convenience.

The Contractor is responsible to ensure that the Special Inspector is present for all work requiring special inspection. Any work that requires special inspection and is performed without the Special Inspector being present is subject to being demolished and reconstructed.

The Contractor has the following responsibilities to the Special Inspector:

- Provide copy of Construction Documents to the Special Inspector.
- Notify the Special Inspector sufficiently in advance of operations to allow assignment of personnel and scheduling of tests.
- Cooperate with Special Inspector and provide access to work.
- Provide samples of materials to be tested in required quantities.
- Provide storage space for the Special Inspector's exclusive use, such as for storing and curing concrete testing samples.
- Provide labor to assist the Special Inspector in performing tests/inspections.

SPECIAL INSPECTOR RESPONSIBILITIES

The Special Inspector shall maintain records of inspections in accordance with Section 1704.2.4 and shall distribute these records to the Architect and Structural Engineer on a weekly basis. At the conclusion of the project, the Special Inspector shall submit a written statement that the special inspections during construction have complied with this Structural Quality Assurance Plan and that any discrepancies noted during construction have been corrected.

SOILS

The Special Inspector shall perform the following:

- Verify structural fill complies with specifications and the geotechnical report.
- Observer proofrolling.
- Perform field density tests to verify compaction of structural fill. As a minimum, perform one test per lift for every 2500 square feet of fill placed.
- Foundations were designed using an assumed maximum earth bearing pressure of 2,000 PSF. The contractor shall verify that field conditions comply with these recommendations. This verification shall be performed by Licensed Geotechnical Engineer.

CAST-IN-PLACE CONCRETE

The Contractor shall perform the following:

- Establish concrete mix design proportions per ACI 318, Chapter 5. Submit 5 copies (minimum) of the concrete mix designs. Include the following:
 - Type and quantities of materials
 - Slump
 - Air content
 - Fresh unit weight
 - Aggregates sieve analysis
 - Design compressive strength
 - Location of placement in structure
 - Method of placement
 - Method of curing
 - Seven-day and 28-day compressive strengths
- Submit a certification from each manufacturer or supplier stating that materials meet the requirements of the specified ASTM and ACI standards.
- Submit certification that the ready-mixed concrete plant complies with the requirements of the National Ready Mix Concrete Association.

The Special Inspector shall perform the following:

- Verify quantity, location, and placement of reinforcing steel prior to concrete placement.
- Examine concrete in truck to verify that concrete appears properly mixed.
- Perform a slump test as deemed necessary for each concrete load. Record if water or admixtures are added to the concrete at the job site. Perform additional slump tests after job site adjustments.
- Mold four specimens per set for compressive strength testing; one set for each 50 cubic yards (or portion thereof) of each mix design in any one day. For each set set molded, record:
 - Slump
 - Air content
 - Unit weight
 - Temperature, ambient and concrete
 - Location of placement
 - Any pertinent information, such as addition of water, addition of admixtures, etc.
- Perform one 7-day and two 28-day compressive strength tests. (Use one as a spare to be broken as directed by the Structural Engineer if compressive strengths do not appear adequate.)
- Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, concrete design compressive strength, location of concrete placement in structure, concrete mix proportions and materials, compressive breaking strength and type of break.

NON-SHRINK GROUT UNDER STEEL BASE PLATES

The Special Inspector shall perform the following:

- Compressive strength tests per ASTM C109.
- Number of Tests: One test for each ten bags of grout used or minimum of one test for each day of grouting.
- Cube Size: 2-inch x 2-inch.
- Test Schedule: One cube at 3 days, two cubes at 7 days, three cubes at 28 days.

CONCRETE MASONRY

Contractor shall perform the following:

- Submit a certification from each manufacturer or supplier stating that the following materials comply with the specified ASTM or ACI Standards:
 - Concrete masonry units
 - Mortar materials: Portland cement, hydrated lime, and aggregates.
 - Grout materials: Portland cement and aggregates.
 - Joint reinforcement steel.
 - Reinforcing steel.
- For reinforcing steel used in concrete masonry walls, submit certified mill test reports.

Special Inspector shall perform the following:

- Verify compressive strength of concrete masonry units, mortar, and coarse grout for every 5,000 sq. ft. of surface area (or portion thereof) as follows:
 - Three (3) concrete masonry units shall be tested in accordance with ASTM C140.
 - Six (6) mortar cube specimens shall be tested, three (3) at 7-days and three (3) at 28-days, in accordance with ASTM C109.
 - Four (4) coarse grout specimens shall be tested, two (2) at 7-days and two (2) at 28-days, in accordance with ASTM C-109.
 - In lieu of individual tests of masonry units, mortar, and grout, perform one (1) prism test (which consists of three prisms) in accordance with ASTM E447.
- Provide continuous inspection to verify compliance of the following:
 - Cleanliness of grout space prior to grouting.
 - Placement of grout in reinforced cells.
 - Preparation of required grout and mortar specimens.
 - Welding of reinforcing bars.
- Provide periodic inspection to verify compliance of the following:
 - Proportions of site-prepared mortar or grout.
 - Construction of mortar joints.
 - Quantity, size, location, and support of reinforcing steel.
 - Quantity, size, and placement of horizontal joint reinforcement.
 - Type, size and location of anchors.
 - Protection of masonry during cold or hot weather.

STRUCTURAL STEEL

The Contractor shall perform the following:

- The steel fabricator shall be AISC or AWS Certified, refer to Spec. 05120.
- Submit certified mill test reports for structural steel.
- Submit manufacturer's certificate of compliance for high-strength bolting and weld filler materials.
 - If the fabricator is not certified, then the fabricator shall reimburse the owner for the costs of these tests.

The Special Inspector shall perform the following:

- Provide continuous inspection to verify compliance of the following:
 - Inspection of slip-critical connections, except periodic inspection may be performed when using torque control bolts (twist off).
 - Complete and partial penetration groove welds. Ultrasonically inspect 100% of the complete penetration welds.
 - Multi-pass fillet welds and single-pass fillet welds greater than 5/16".
- Provide periodic inspection to verify compliance of the following:
 - Material verification of high-strength bolts, nuts, and washers.
 - Material verification of structural steel.
 - Material verification of weld filler material.
 - Anchor bolt size, configuration, and embedment shall be verified prior to placement of concrete.
 - Visually inspect all field-welded connections. Visual inspection of welded joints includes periodic examination of fillet.
 - Verify stud shear connector spacing and location. Visually inspect welding of stud shear connectors.
- Weld Inspections
 - Weld inspections shall be in accordance with AWS D1.1.
 - Review and verify compliance of written welding procedures with AWS requirements.
 - Verify that welding procedures are being adhered to during field welding.
 - Verify welder qualifications.
 - Use all means necessary to determine the quality of welds. The inspector may use gamma ray, maggrafuz, trepanning, sonics or any other aid to visual inspection that the Special Inspector may deem necessary to be assured of the adequacy of the welding.
 - Keep a systematic record of all welds that include, in addition to other required records, the identification marks of welders, a list of defective welds, and the manner of correcting defects.
- Bolting inspection and testing shall be in accordance with AISC Specifications for Structural Joints Using ASTM A325 or A490 Bolts.

SPECIAL INSPECTOR RESPONSIBILITIES

The Special Inspector shall maintain records of inspections in accordance with Section 1704.2.4 and shall distribute these records to the Architect and Structural Engineer on a weekly basis. At the conclusion of the project, the Special Inspector shall submit a final report including a written statement that the special inspections during construction have complied with this Structural Quality Assurance Plan and that any discrepancies noted during construction have been corrected.

SPECIAL INSPECTIONS PER CHAPTER 17 OF THE KENTUCKY BUILDING CODE

SECTION	ITEM	REQUIRED?		REMARKS
		YES	NO	
1704.2.5	FABRICATORS	X	—	STEEL FABRICATED ITEMS
1704.6.1	STRUCTURAL OBSERVATION FOR SEISMIC REQUIREMENTS	—	X	SEISMIC DESIGN CATEGORY "D"
1704.6.2	STRUCTURAL OBSERVATION FOR WIND REQUIREMENTS	—	X	Vasd = 93mph.
1705.2	STEEL	X	—	PER AISC 360 & TABLE 1705.2.2
1705.3	CONCRETE	X	—	PER TABLE 1705.3
1705.4	MASONRY	X	—	LEVEL B TMS 402/ACI 530/ASCE 5 FOR MASONRY BRG. WALL FOUNDATIONS MEET EXCEPTION
1705.5	WOOD	—	X	PER SECTION 1705.5
1705.6	SOILS	—	X	PER SECTION 1705.6
1705.7	DRIVEN DEEP FOUNDATIONS	—	X	NONE
1705.8	CAST IN PLACE DEEP FOUNDATIONS	—	X	NONE
1705.9	HELICAL PILE FOUNDATIONS	—	X	NONE
1705.11.1	WIND - STRUCTURAL WOOD	—	X	Vasd OF 93MPH
1705.11.2	WIND - COLD FORMED STEEL FRAMING	—	X	Vasd OF 93MPH
1705.11.3	WIND - WIND RESISTING COMPONENTS	—	X	Vasd OF 93MPH
1705.12.1	SEISMIC - STRUCTURAL STEEL	—	X	SEISMIC DESIGN CATEGORY "B"
1705.12.2	SEISMIC - STRUCTURAL WOOD	—	X	NONE
1705.12.3	SEISMIC - COLD FORMED STEEL FRAMING	—	X	NONE
1705.12.4	DESIGNATED SEISMIC SYSTEMS	—	X	SEISMIC CATEGORY "B"
1705.12.5	SEISMIC - ARCHITECTURAL COMPONENTS - INTERIOR/EXTERIOR NON-LOAD BEARING WALLS AND VENEER IN STRUCTURES	—	X	SEISMIC DESIGN CATEGORY "B"
1705.12.6	SEISMIC - MECHANICAL AND ELECTRICAL COMPONENTS	—	X	SEISMIC DESIGN CATEGORY "B"
1705.12.7	SEISMIC - STORAGE RACKS AND ACCESS FLOORS	—	X	NONE
1705.14	SPRAYED FIREPROOFING	—	X	NONE
1705.15	MASTIC & INTUMESCENT FIREPROOFING	—	X	NONE
1705.16	E.I.F.S.	—	X	NONE
1705.17	FIRE RESISTANT PENETRATIONS & JOINTS	—	X	RISK CATEGORY III, NON-HIGH RISK
1705.18	SMOKE CONTROL	—	X	NONE

EARTHQUAKE DESIGN DATA

RISK CATEGORY	III
IMPORTANCE FACTOR	1.25
S ₁	0.172
S ₁	0.082
SITE CLASS	C
S _{1s}	0.149
S _{1h}	0.082
SEISMIC DESIGN CATEGORY	B
BASIC SEISMIC FORCE RESISTING SYSTEM	STEEL SYSTEM NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE
DESIGN BASE SHEAR	0.062 x W (kips)
SEISMIC RESPONSE COEFFICIENT (C _s)	0.062
RESPONSE MODIFICATION FACTOR	3
ANALYSIS PROCEDURE	ELFP

SNOW DESIGN DATA

GROUND SNOW LOAD (P _g)	15 PSF
FLAT ROOF SNOW LOAD (P _f)	10.4 PSF
IMPORTANCE FACTOR	1.1
THERMAL FACTOR (C _t)	1.0

DESIGN LIVE LOADS

ROOF	20 PSF
OFFICES	50 PSF
STORAGE	125 PSF
LABORATORIES / CLASSROOMS	50 PSF
MECHANICAL ROOMS	50 PSF

WIND DESIGN DATA

ULTIMATE DESIGN WIND SPEED (V _{ult})	120 MPH
NOMINAL WIND SPEED (V _{sud})	93 MPH
RISK CATEGORY	III
WIND PRESSURE CATEGORY	B
INTERNAL PRESSURE COEFFICIENT	+/- 0.18 (ENCLOSED)
MAIN WIND FORCE RESISTING SYSTEM	MOMENT FRAMES
WIND IMPORTANCE FACTOR	1.15
COMPONENTS AND CLADDING	
EFFECTIVE WIND AREA = 10 SQ. FT.	
EXPOSURE B	
ROOF 0 TO 7 DEGREES	(PSF)
INTERIOR ZONE	8.9 -21.8
END ZONE	8.9 -36.5
CORNER ZONE	8.9 -54.9
WALLS	
INTERIOR ZONE	21.8 -23.6
END ZONE	21.8 -29.1

NOTE: NEGATIVE NUMBERS INDICATE A SUCTION/UPLIFT PRESSURE

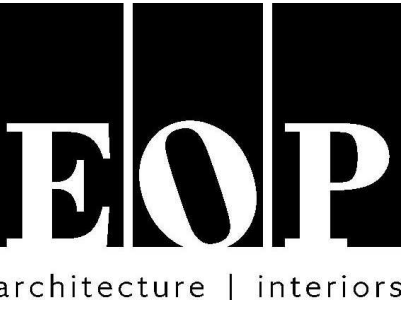
NEW FCPS COMBINED CTE SCHOOL

BG# 22-167

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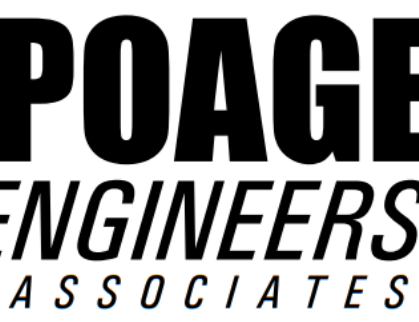
PERMIT SET

REVISIONS		
#	DATE	DESCRIPTION
4	10-27-22	Revision 4



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Job Number POAGE 20149 PLAN
Drawn By MWF
Checked By NGW
Date 9/26/2022



9/26/22

STRUCTURAL NOTES

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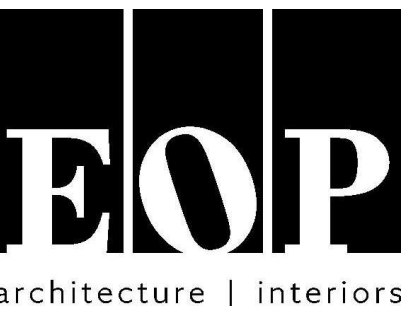
**NEW FCPS
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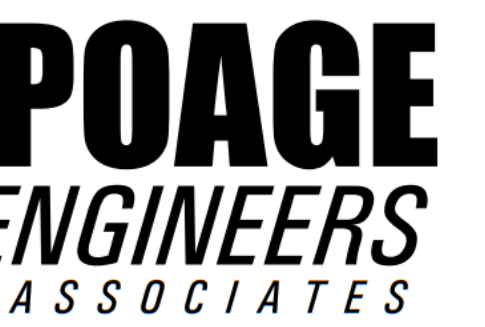
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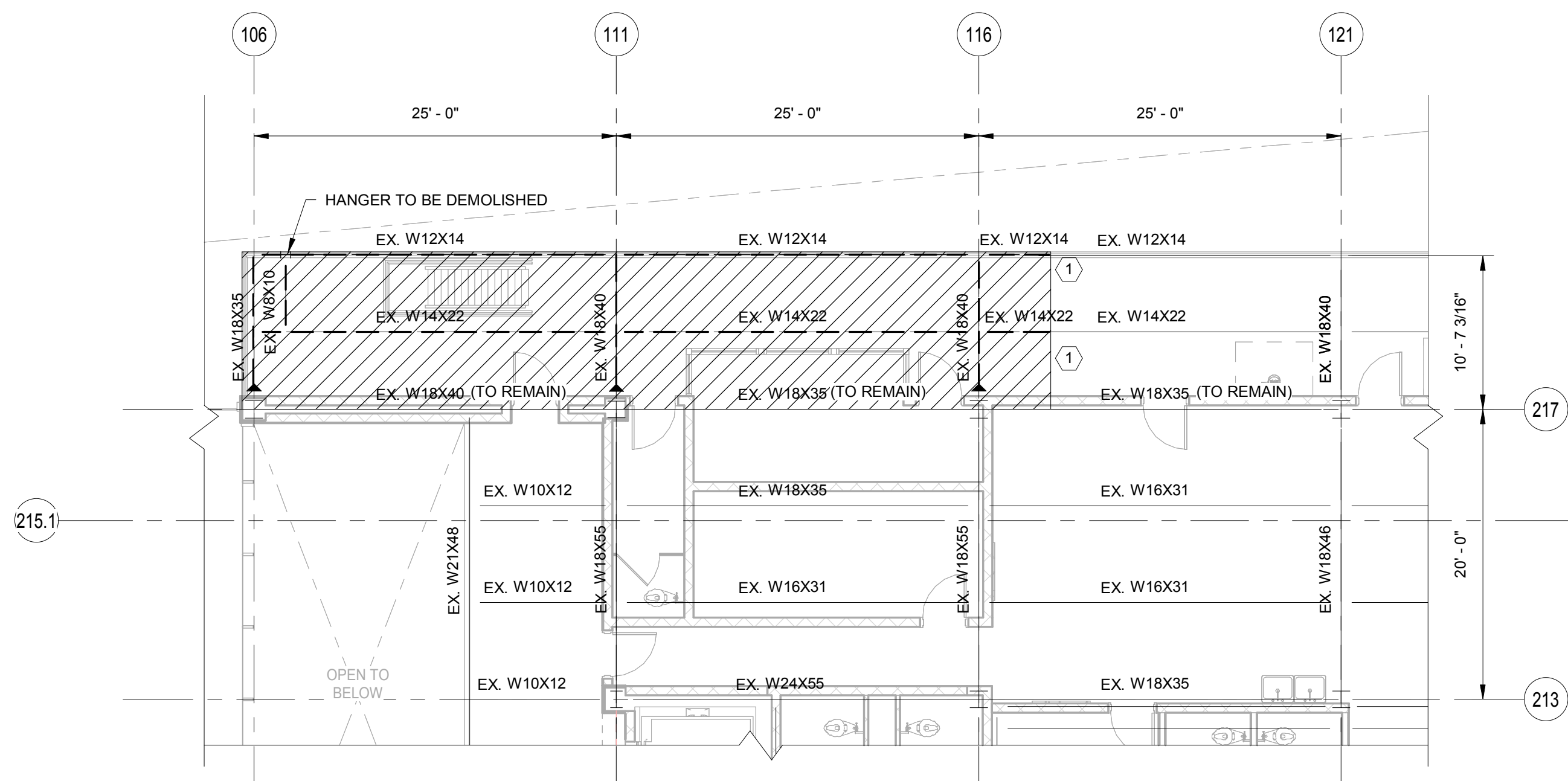
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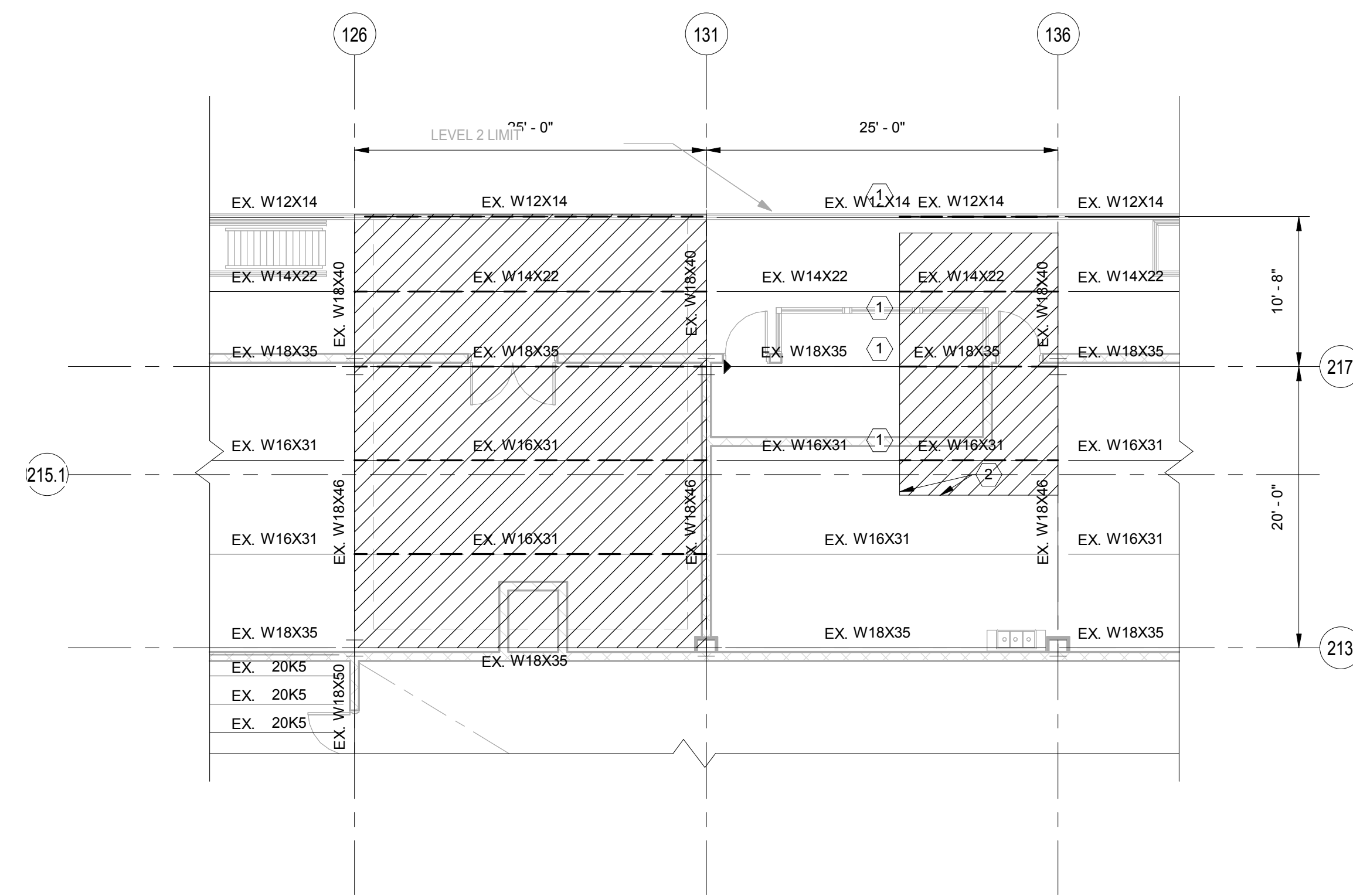
9/26/22

LEVEL 2 DEMO PLANS

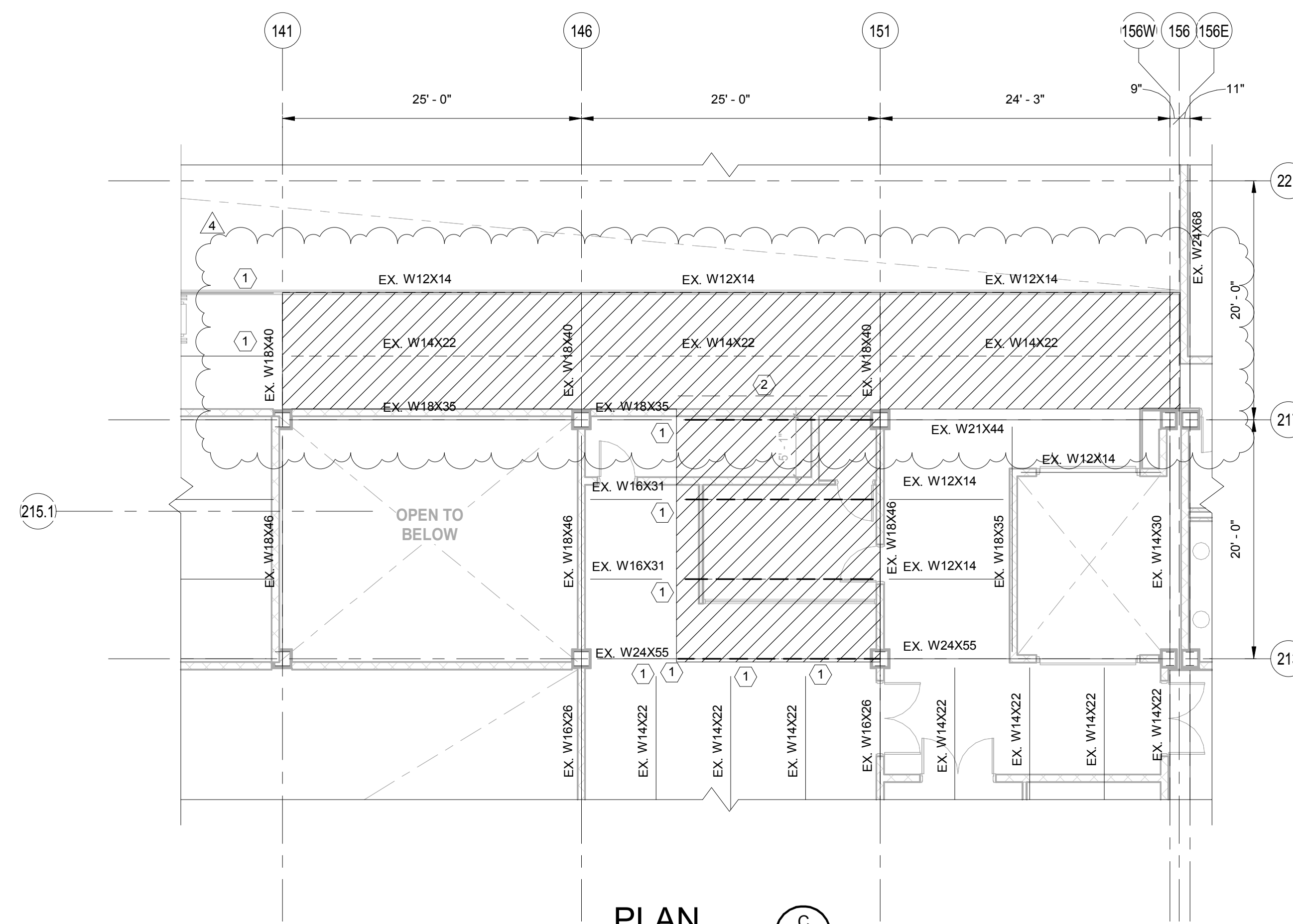
S2.1



PLAN A
S2.1



PLAN B
S2.1



PLAN C
S2.1

DEMOLITION LEGEND:

- SLAB TO BE REMOVED. SAWCUT AROUND PORTION TO BE REMOVED. SEE DEMOLITION NOTES IN 50 SERIES DWGS.
- DEMOLISH EXISTING BEAM (OR PORTION)
- REMOVE ALL ROOF STRUCTURE & ROOF DECKING
- PROVIDE TEMPORARY SHORING FOR EXISTING BEAMS
- PROVIDE TEMPORARY DECK SHORING

NOTES:

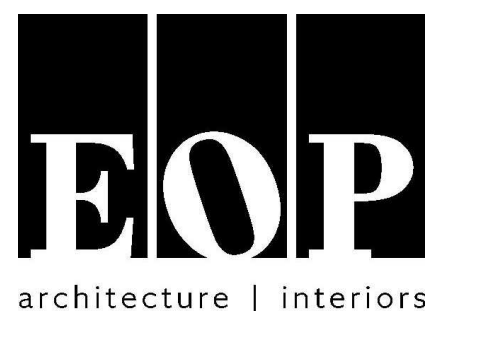
- 1) DATUM ELEVATION: 1) STRUCTURAL SLAB EL. (+12'-0") RELATIVE TO DATUM UON AS THUS ()
- 2) 1) STEEL EL. -4.34" UON RELATIVE TO DATUM
- 3) SEE SERIES 4 FRAMING PLANS FOR NEW CONSTRUCTION AND/OR EXISTING MEMBERS SCHEDULED TO BE MODIFIED
- 4) VERIFY ALL DIMENSIONS IN FIELD. SEE ARCH DWGS FOR DIMENSIONS OF NEW CONSTRUCTION AND GC TO COORDINATE DEMO EXTENTS.

**NEW FCPS
COMBINED CTE
SCHOOL**
BG# 22-167

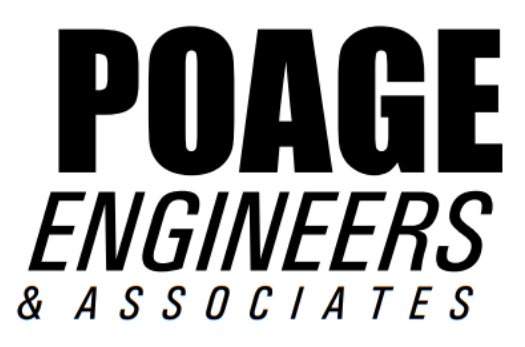
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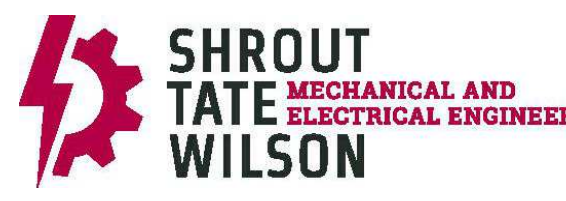
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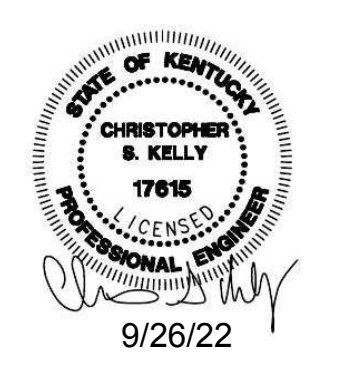
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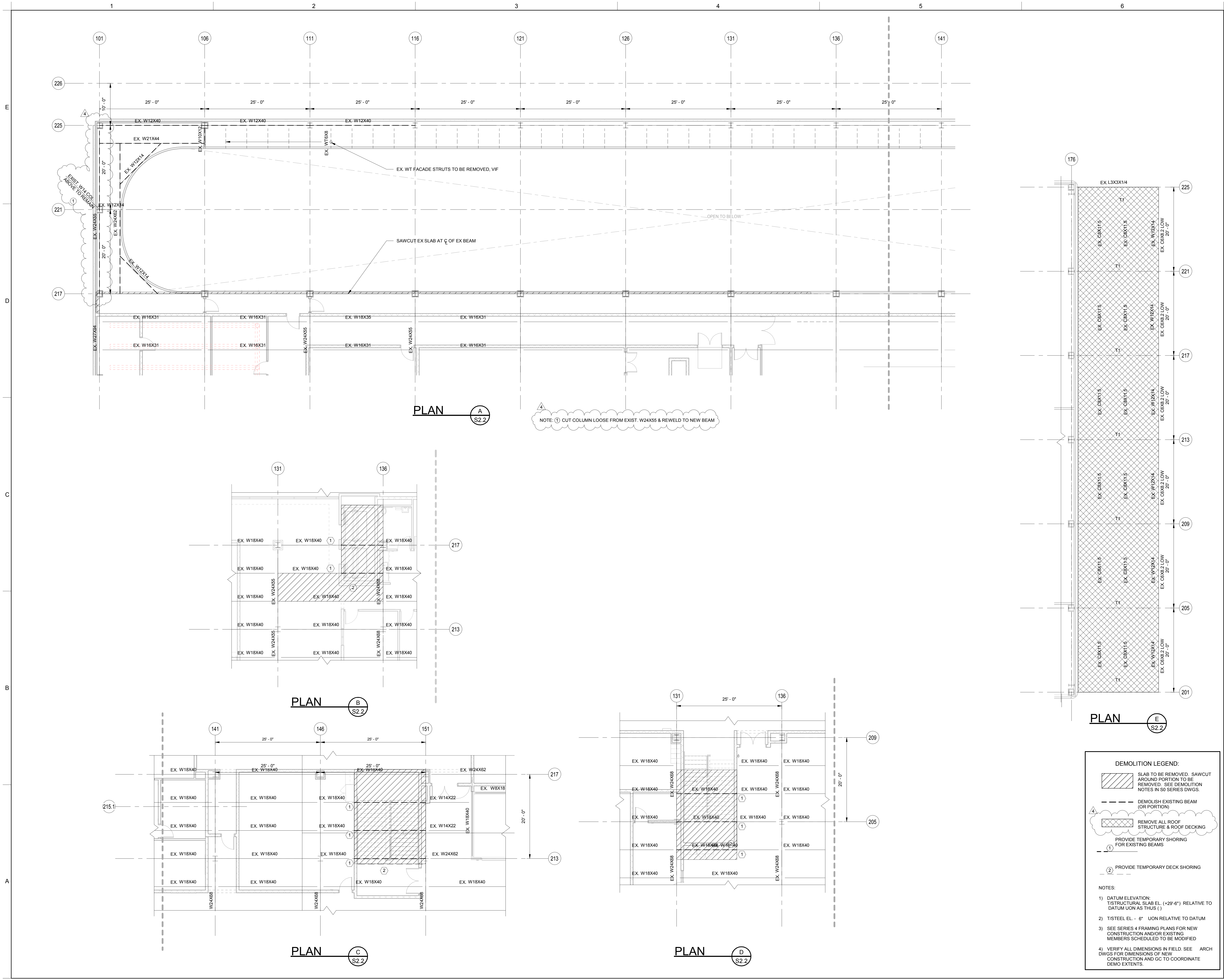
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Drawn By MWF
Checked By NGW
Date 9/26/2022



LEVEL 3 DEMO PLANS

S2.2



DEMOLITION LEGEND:

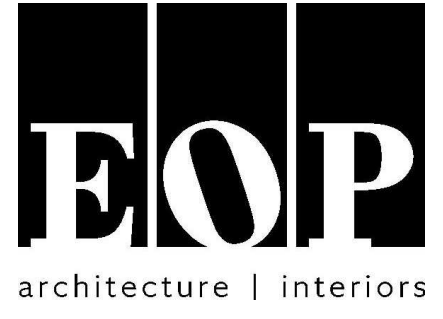
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- DEMOLISH EXISTING BEAM (OR PORTION)
- REMOVE ALL ROOF STRUCTURE & ROOF DECKING
- PROVIDE TEMPORARY SHORING FOR EXISTING BEAMS
- PROVIDE TEMPORARY DECK SHORING

NOTES:

- DATUM ELEVATION: T1 STRUCTURAL SLAB EL. (+29'-6") RELATIVE TO DATUM UON AS THUS (1)
- T1 STEEL EL. - 6" UON RELATIVE TO DATUM
- SEE SERIES 4 FRAMING PLANS FOR NEW CONSTRUCTION AND/OR EXISTING MEMBERS SCHEDULED TO BE MODIFIED
- VERIFY ALL DIMENSIONS IN FIELD. SEE ARCH DWGS FOR DIMENSIONS OF NEW CONSTRUCTION AND GC TO COORDINATE DEMO EXTENTS.

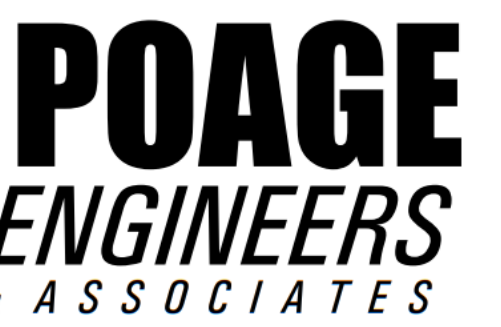
10/26/2022 10:52:14 AM

REVISIONS		
#	DATE	DESCRIPTION
4	10-27-22	Revision 4



PROJECT TEAM

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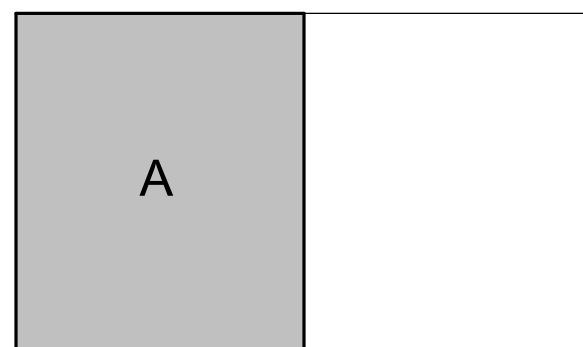


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MEP Engineers
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Lexington, KY 40505



Element Design, PLLC.
366 S. Broadway
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KEYPLAN



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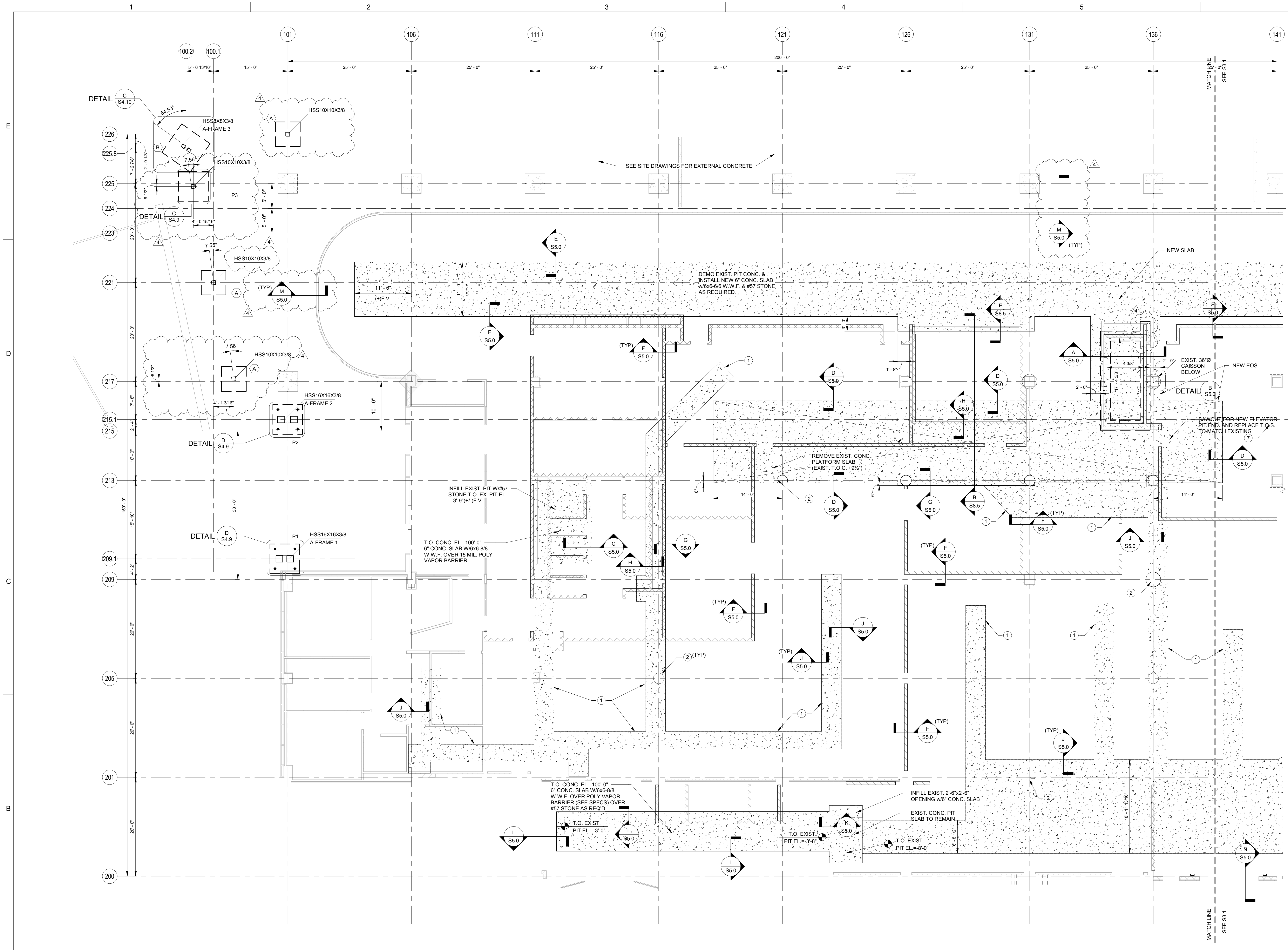
Job Number POAGE 20149 PLAN TRUE
Drawn By MWF
Checked By NGW
Date 9/26/2022



9/26/22

FOUNDATION PLAN A

S3.0



MICROPILE CAP SCHEDULE			REQUIRED CAPACITY			
MARK	SIZE	REINFORCING STEEL	DOWN(KIPS)	MOMENT X (KIP-FT)	MOMENT Z (KIP-FT)	LATERAL(KIPS)
P1	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY	23	6.2	115	1
P2	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY	28	6	233	1
P3	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY	15	0	79	0.5
P4	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY	14	21	65	11
P5	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY	47	43	72.5	2
P6	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY	16.4	45	72	11

NOTES:
1) FIELD VERIFY TIP ELEVATIONS TO ACHIEVE SPECIFIED CAPACITY FOR PILES.
2) PILE CAP ELEVATION -1'-0" BELOW THE GRADE, COORDINATE W/CIVIL DWGS.
3) PROVIDE ADDITIONAL BATTERED PILES AS REQ'D TO SUPPORT LATERAL LOAD OF EACH PILE CAP.
4) DESIGN OF PILES SHALL HAVE A MINIMUM FACTOR OF SAFETY OF 2.0 ON LOADS SHOWN.

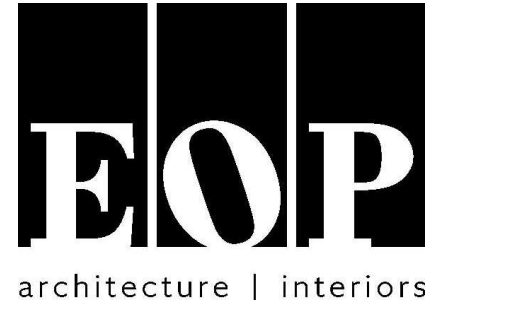
FOUNDATION PLAN A

- SEE PLUMBING DWGS FOR LOCATION OF TRENCHES ASSUME 4'-0" WIDE REMOVAL U.O.N. OF EXIST. SLAB AT PROPOSED PLUMBING ROUTES AND REPLACING OF SLAB ON GRADE PER TYPICAL DETAILS 6" MIN. THICKNESS W/TYP. REINF. & #57 STONE AS REQD
- WRAP EXIST. COLUMN W/ 1/8" EXP. JT. MATERIAL
- INDICATES MICROPILES - SEE MICROPILE CAP SCHEDULE
- INFILL EXIST. DOCK LEVELER PIT W/ 6" CONC. SLAB W/ W/6x6-8/8 W.W.F. & #57 STONE AS REQD
- REPAIR EXIST. STAIR WELLS & #57 STONE AS REQD
- INFILL EXIST. SUMP PIT 6" CONC. SLAB W/ W/6x6-8/8 W.W.F. & #57 STONE AS REQD
- REMOVE EXIST. CONCRETE CURBS
- NEW SELF LEVELING CONCRETE TOPPING - EXIST. CONC SLOPES 0'-1 1/2" IN 10' (4) F.V.
- INFULL EXIST. RECES W/ 6" CONC SLAB

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING STEEL
(A)	5'-0"x5'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY
(B)	7'-0"x7'-0"x30"	(8)#5 BARS TOP & BOTTOM EA. WAY

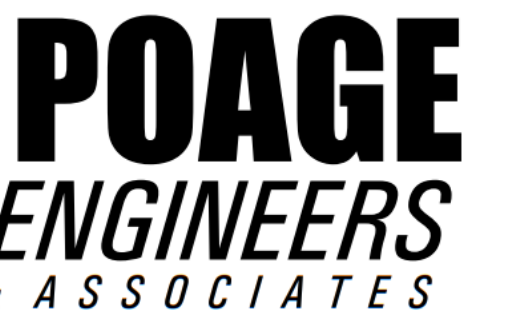
- NOTES:
1) DATUM ELEVATION = 100'-0" ASSUMED.
2) REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL INTERIOR WALLS NOT LOCATED ON STRUCTURAL DRAWINGS.
3) SAW CONTROL JOINTS IN THE CONCRETE SLAB IMMEDIATELY AFTER SET UP. REFER TO DRAWINGS, BUT MAXIMUM SPACING SHALL BE 16'-0" IN EITHER DIRECTION (TYPICAL UNLESS NOTED OTHERWISE).
4) CONTRACTOR SHALL COORDINATE FLOOR DRAINS, AND DECKS WITH MECHANICAL. REFER TO ARCH. FOR REQ'D FLOOR SLOPE.
5) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS

REVISIONS		
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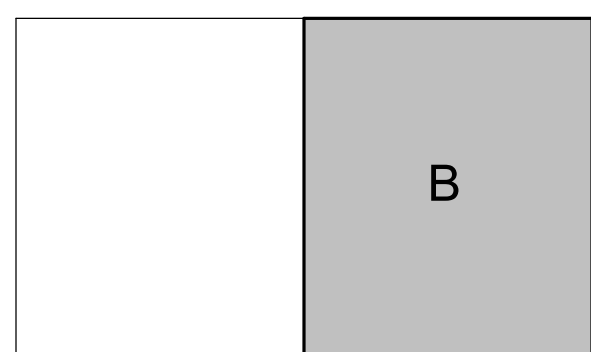


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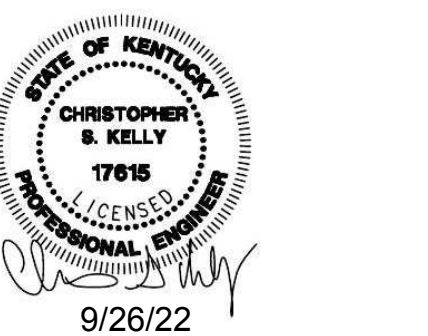


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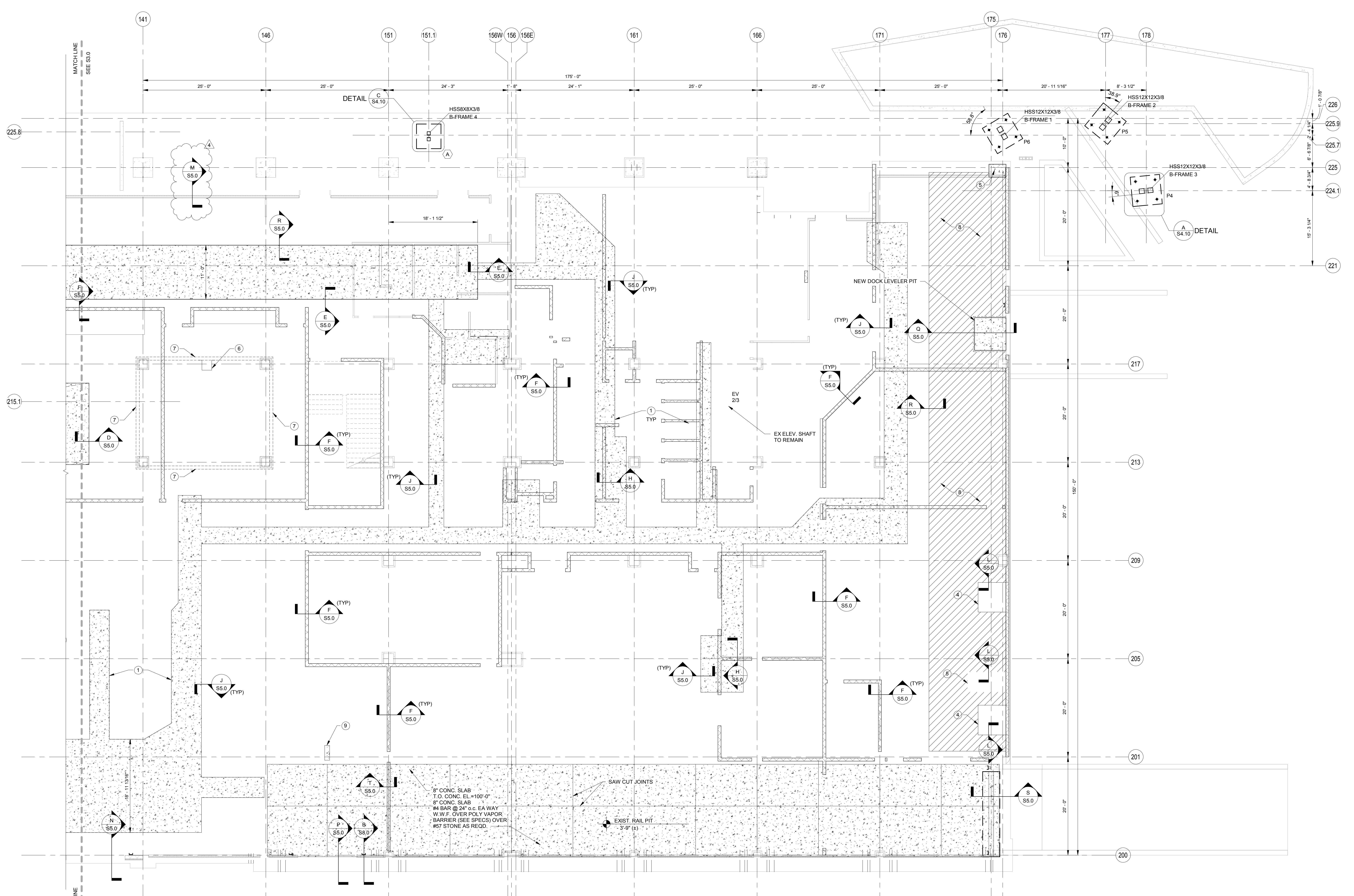
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Job Number POAGE 20149 PLAN
Drawn By MWF
Checked By NGW
Date 9/26/2022



FOUNDATION PLAN B

S3.1



FOOTING SCHEDULE		
MARK	SIZE	REINFORCING STEEL
(A)	5'-0"x5'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY
(B)	7'-0"x7'-0"x30"	(8)#5 BARS TOP & BOTTOM EA. WAY

FOUNDATION PLAN B

- SEE PLUMBING DWG'S FOR LOCATION OF TRENCHES ASSUME 4'-0" WIDE REMOVAL U.O.N. OF EXIST. SLAB AT PROPOSED PLUMBING ROUTES AND REPLACEMENT OF SLAB ON GRADE PER TYPICAL DETAILS 6" MIN. THICKNESS W/TYP. REINF. & #57 STONE AS REQD
- WRAP EXIST. COLUMN W/ 1/8" EXP.-JT. MATERIAL
- INDICATES MICROPILES - SEE MICROPILE CAP SCHEDULE
- INFILL EXIST. DOCK LEVELER PIT W/ 6" CONC. SLAB W/ W/6x6-88 W.W.F. & #57 STONE AS REQD
- REPAIR EXIST. STAIR WELLS & #57 STONE AS REQD
- INFILL EXIST. SUMP PIT 6" CONC. SLAB W/ W/6x6-88 W.W.F. & #57 STONE AS REQD
- REMOVE EXIST. CONCRETE CURBS
- NEW SELF LEVELING CONCRETE TOPPING - EXIST. CONC SLOPES 0" - 1 1/2" IN 10' (s) F.V.
- INFILL EXIST. RECES W/ 6" CONC SLAB

- NOTES:
- DATUM ELEVATION = 100'-0" ASSUMED.
 - REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL INTERIOR WALLS NOT LOCATED ON STRUCTURAL DRAWINGS.
 - SAW CONTROL JOINTS IN THE CONCRETE SLAB IMMEDIATELY AFTER SET UP. REFER TO DRAWINGS, BUT MAXIMUM SPACING SHALL BE 16'-0" IN EITHER DIRECTION (TYPICAL UNLESS NOTED OTHERWISE).
 - CONTRACTOR SHALL COORDINATE FLOOR DRAINS, AND DEPTHS WITH MECHANICAL. REFER TO ARCH. FOR REQ'D FLOOR SLOPE.
 - CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS

MICROPILE CAP SCHEDULE		
MARK	SIZE	REINFORCING STEEL
P1	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY
P2	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY
P3	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY
P4	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY
P5	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY
P6	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY

REQUIRED CAPACITY						
MARK	SIZE	REINFORCING STEEL	DOWN(KIPS)	MOMENT X (KIP-FT)	MOMENT Z (KIP-FT)	LATERAL(KIPS)
P1	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY	23	6.2	115	1
P2	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY	26	6	233	1
P3	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY	15	0	79	0.5
P4	6'-0"x6'-0"x30"	(6)#5 BARS TOP & BOTTOM EA. WAY	14	21	65	11
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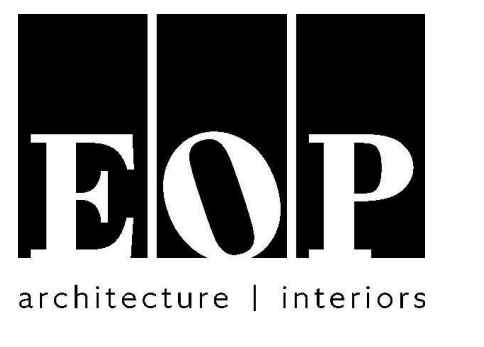
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 - DESIGN OF PILES SHALL HAVE A MINIMUM FACTOR OF SAFETY OF 2.0 ON LOADS SHOWN.

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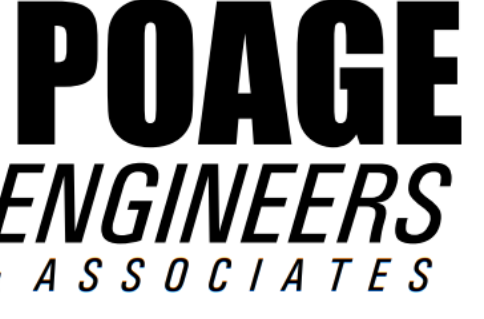
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4	10-27-22	Revision 4

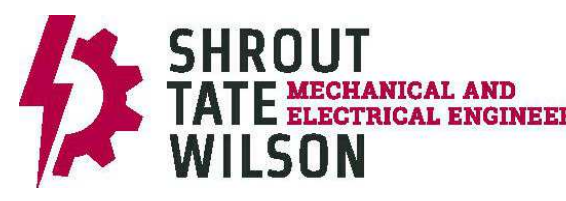


PROJECT TEAM

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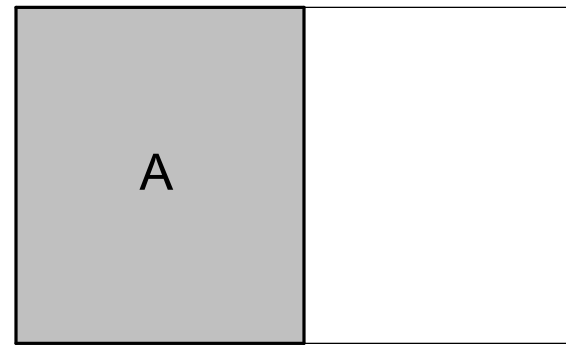


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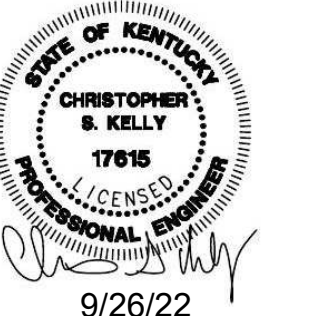


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Checked By NGW
Date 9/26/2022



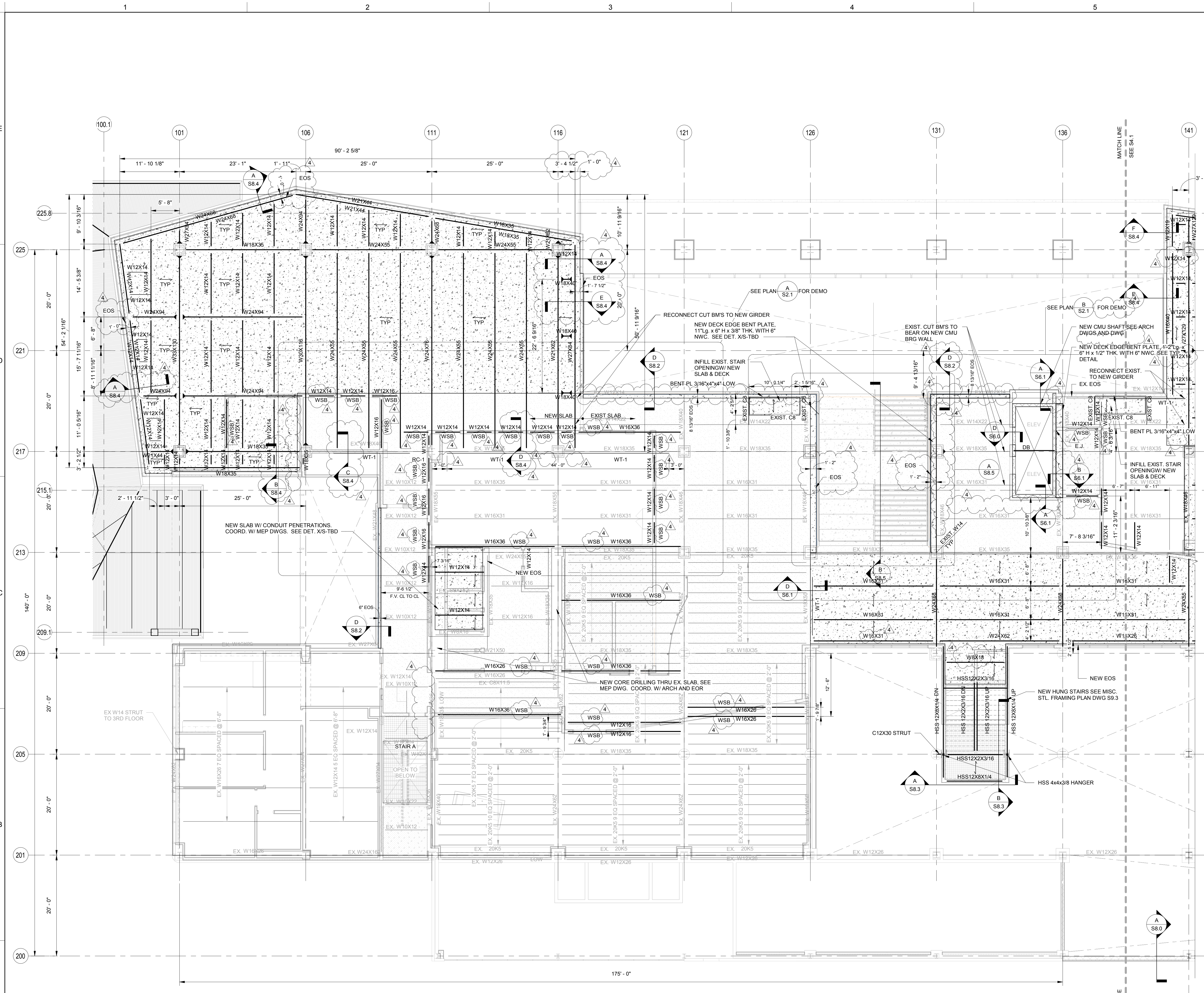
**LEVEL 2 FRAMING
PLAN A**

S4.0

- NOTES:
- 1) DATUM ELEVATION 0'-0"
T/STRUCTURAL SLAB ELEVATION ++12'-0"
 - 2) T/STEEL ELEVATION = -4 3/4" RELATIVE TO TOP OF SLAB
 - 3) → INDICATES DECK SPAN DIRECTION
← INDICATES 4 3/4" NWC SLAB ON 1 1/2" (20 GAGE) COMPOSITE STEEL DECK WITH 6X6-W4.0 X W4.0 WWR (TYP UND)
D1 → INDICATES 1-1/2" TYPE B ROOF DECK 22 GAGE
 - 4) AT STAIRS, SEE TYPICAL DETAILS FOR TC, TCS, AND KICKER REQUIREMENTS
 - 5) SYMBOLS:
△ INDICATES MOMENT CONNECTION
□ INDICATES EXISTING COLUMN CONNECTION TO BE REINFORCED. SEE TYPICAL DETAILS
WT- INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
PL- INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
 - 6) NOTATIONS:
DB INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
 - 7) ALL DIMENSIONS NOTED TO BE VERIFIED IN FIELD BY CONTRACTOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS.

LEGEND:

- EOB: EDGE OF BUILDING
- EOS: EDGE OF SLAB
- EOD: EDGE OF DECK
- BBB1: 16" DEEP BOND BEAM SEE DETAIL X/S-TBD
- BBB2: 24" DEEP BOND BEAM SEE DETAIL X/S-TBD
- BBM: C15X50 BROKEN BACK BEAM
- HA: HSS 4x4x3/8 HANGER ABOVE
- EX: RACEWAY TO BE GROUTED. SEE DET. A/S7.2
- WSB: MASONRY WALL SUPPORT BEAM CENTERED UNDER CMU WALL ABOVE - SEE ARCH. FOR DIMENSIONS

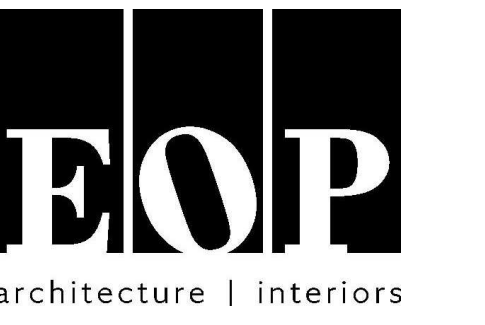


LEVEL 2 FRAMING PLAN A

BEAM REINFORCEMENT SCHEDULE

REIN. MARK	BEAM SIZE	REIN. SIZE	WELD SIZE, a	REIN. LENGTH	ADD'L NOTES
PL-1	SEE PLAN	PL3#8"x6 1/2"	1/4	9'-0" CENTERED ON BEAM UDN	
WT-1	SEE PLAN	WT6X20	1/4	18'-0" CENTERED ON BEAM UDN	

REVISIONS		
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4	10-27-22	Revision 4



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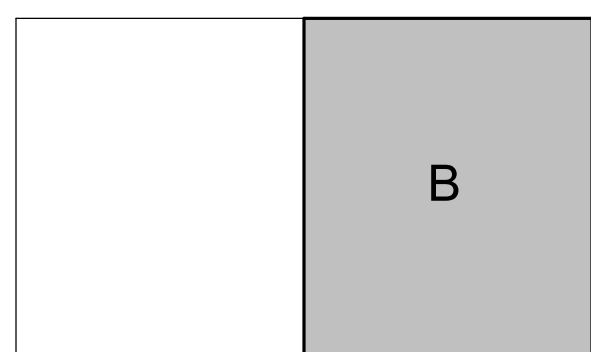


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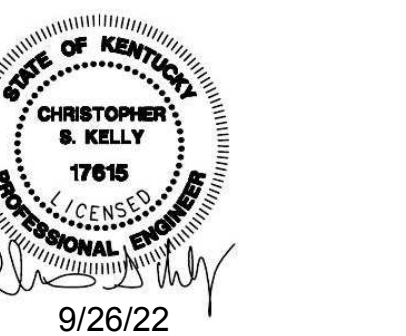


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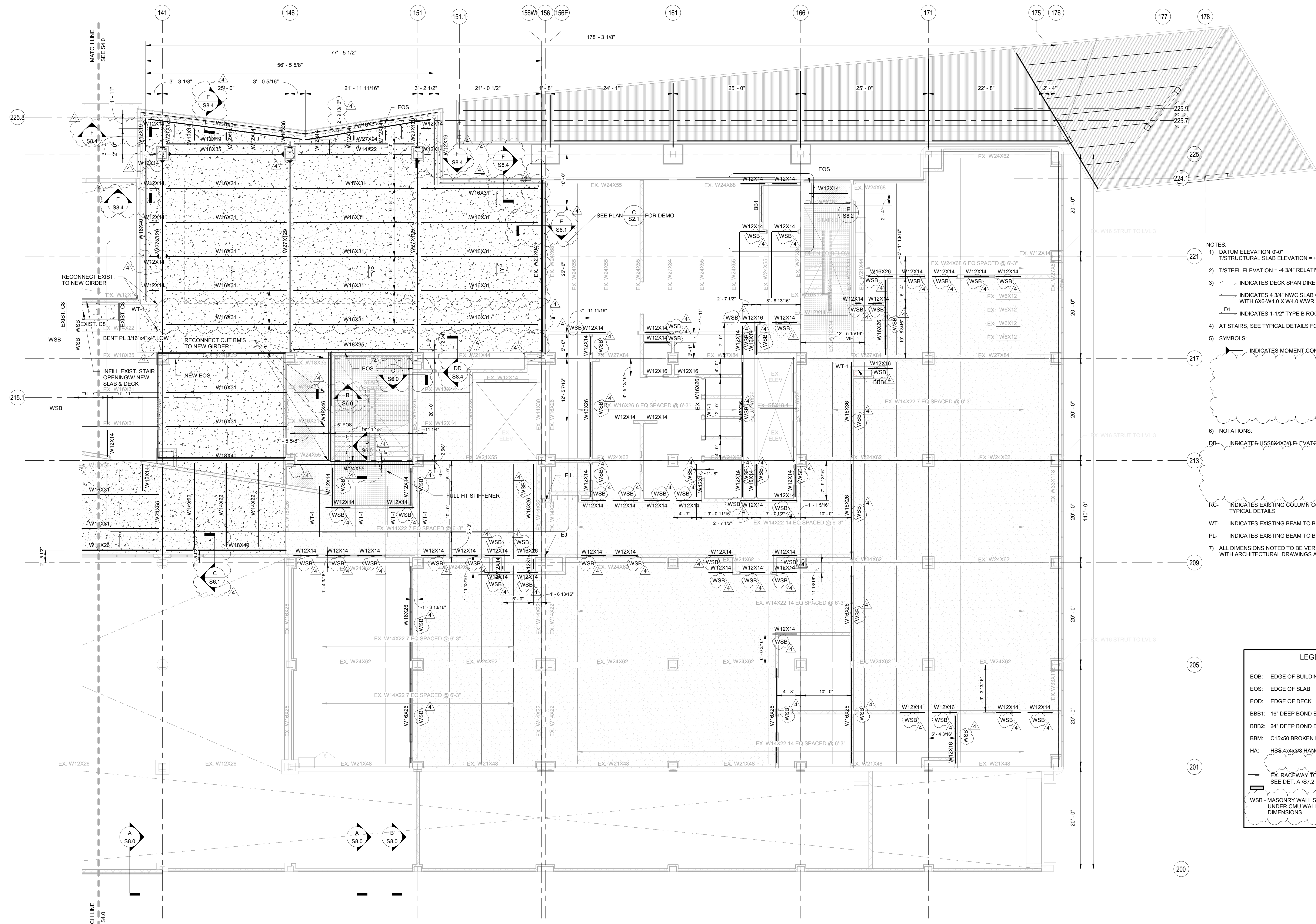
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Drawn By MWF
Checked By NGW
Date 9/26/2022



LEVEL 2 FRAMING PLAN B

S4.1



- NOTES:**
- DATUM ELEVATION 0'-0"
 - STRUCTURAL SLAB ELEVATION = +12'-0"
 - STEEL ELEVATION = -4 3/4" RELATIVE TO TOP OF SLAB
 - INDICATES DECK SPAN DIRECTION
 - INDICATES 4 3/4" NWC SLAB ON 1 1/2" (20 GAGE) COMPOSITE STEEL DECK WITH 6X6-W4.0 X W4.0 WWR (TYP UNO)
 - INDICATES 1-1/2" TYPE B ROOF DECK 22 GAGE
 - AT STAIRS, SEE TYPICAL DETAILS FOR TC, TCS, AND KICKER REQUIREMENTS
 - SYMBOLS:
 - INDICATES MOMENT CONNECTION
 - INDICATES EXISTING COLUMN CONNECTION TO BE REINFORCED. SEE TYPICAL DETAILS
 - INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
 - INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
 - INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
 - ALL DIMENSIONS NOTED TO BE VERIFIED IN FIELD BY CONTRACTOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS.
- NOTATIONS:**
- DB INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
 - RC INDICATES EXISTING COLUMN CONNECTION TO BE REINFORCED. SEE TYPICAL DETAILS
 - WT- INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
 - PL- INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
 - ALL DIMENSIONS NOTED TO BE VERIFIED IN FIELD BY CONTRACTOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS.

LEGEND:

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- EOS: EDGE OF SLAB
- EOD: EDGE OF DECK
- BBB1: 16" DEEP BOND BEAM SEE DETAIL X/S-TBD
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- EX RACEWAY TO BE GROUTED, SEE DET. A/S7.2
- WSB - MASONRY WALL SUPPORT BEAM CENTERED UNDER CMU WALL ABOVE - SEE ARCH. FOR DIMENSIONS

BEAM REINFORCEMENT SCHEDULE

REIN. MARK	BEAM SIZE	REIN. SIZE	WELD SIZE, a	REIN. LENGTH	ADD'L NOTES
PL-1	SEE PLAN	PL 3/8" X 6 1/2"	1/4	9'-0" CENTERED ON BEAM UON	
WT-1	SEE PLAN	WT 6X20	1/4	18'-0" CENTERED ON BEAM UON	

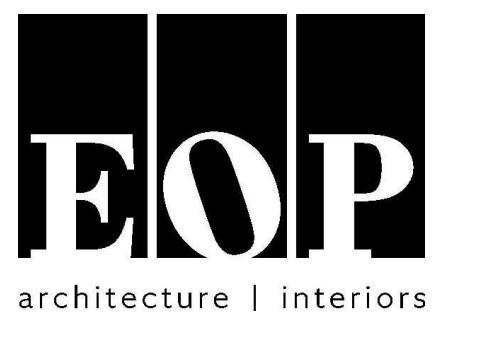
LEVEL 2 FRAMING PLAN B

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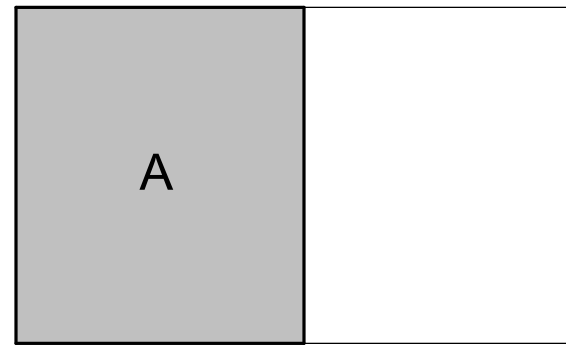
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**element
design**

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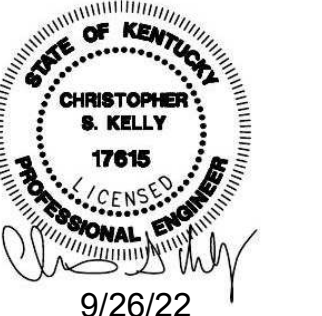


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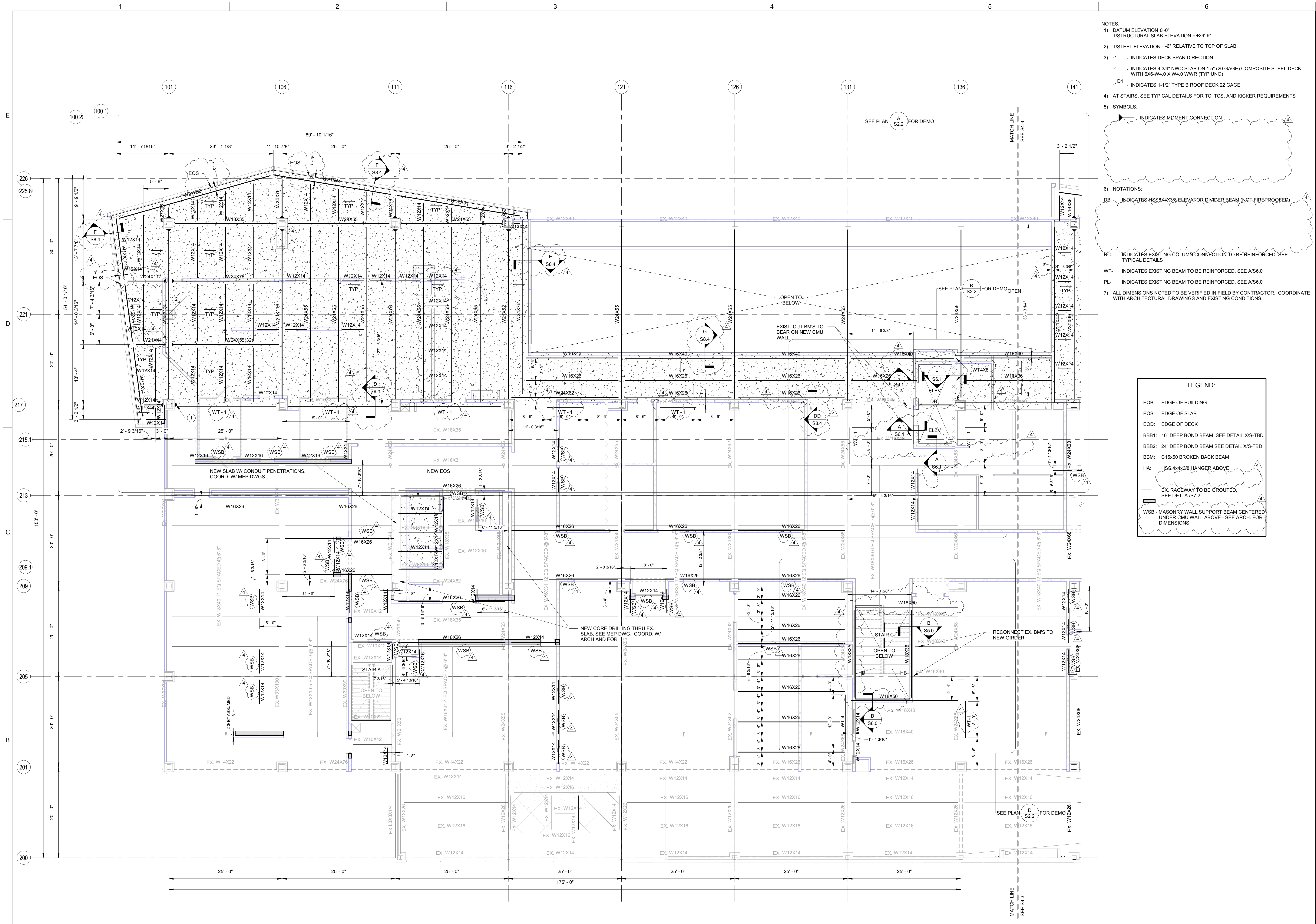
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Job Number POAGE 20149 PLAN TRUE
Drawn By MWF
Checked By NGW
Date 9/26/2022



**LEVEL 3 FRAMING
PLAN A**

S4.2



- NOTES:
- 1) DATUM ELEVATION 0'-0"
T/STRUCTURAL SLAB ELEVATION = +29'-6"
 - 2) T/STEEL ELEVATION = -6" RELATIVE TO TOP OF SLAB
 - 3) → INDICATES DECK SPAN DIRECTION
← INDICATES 4 3/4" NWC SLAB ON 1 1/2" (20 GAGE) COMPOSITE STEEL DECK WITH 6X6-W4.0 X W4.0 WWR (TYP UND)
D1 ← INDICATES 1-1/2" TYPE B ROOF DECK 22 GAGE
 - 4) AT STAIRS, SEE TYPICAL DETAILS FOR TC, TCS, AND KICKER REQUIREMENTS
 - 5) SYMBOLS:
▲ INDICATES MOMENT CONNECTION
▲ DB INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
RC- INDICATES EXISTING COLUMN CONNECTION TO BE REINFORCED. SEE TYPICAL DETAILS
WT- INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
PL- INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
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LEGEND:

- EOB: EDGE OF BUILDING
- EOS: EDGE OF SLAB
- EOD: EDGE OF DECK
- BBB1: 16" DEEP BOND BEAM SEE DETAIL X/S-TBD
- BBB2: 24" DEEP BOND BEAM SEE DETAIL X/S-TBD
- BBM: C15x50 BROKEN BACK BEAM
- HA: HSS 4x4x3/8 HANGER ABOVE
- EX RACEWAY TO BE GROUTED. SEE DET. A/S7.2
- WSB - MASONRY WALL SUPPORT BEAM CENTERED UNDER CMU WALL ABOVE - SEE ARCH FOR DIMENSIONS

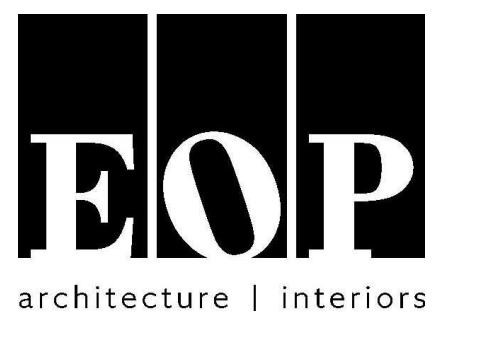
LEVEL 3 FRAMING PLAN A
NOTE: ① NEW MOMENT CONNECTION TO EXISTING BEAM
② CUT COLUMN LOOSE FROM EXIST. W24X55 & REWELD TO NEW BEAM

BEAM REINFORCEMENT SCHEDULE

REIN. MARK	BEAM SIZE	REIN. SIZE	WELD SIZE, a	REIN. LENGTH	ADD'L NOTES
PL-1	SEE PLAN	PL3/8"X6 1/2"	1/4	9'-0" CENTERED ON BEAM UON	
WT-1	SEE PLAN	WT6X20	1/4	18'-0" CENTERED ON BEAM UON	

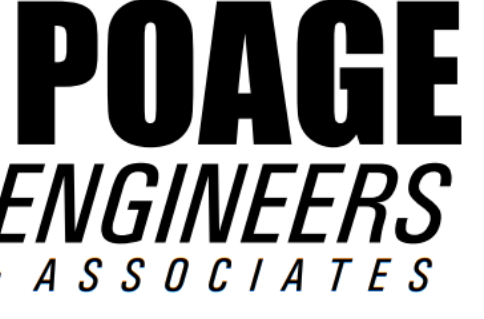
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#	DATE	DESCRIPTION
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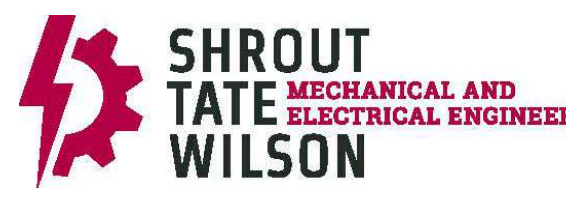


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www.eopa.com



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Structural Engineers
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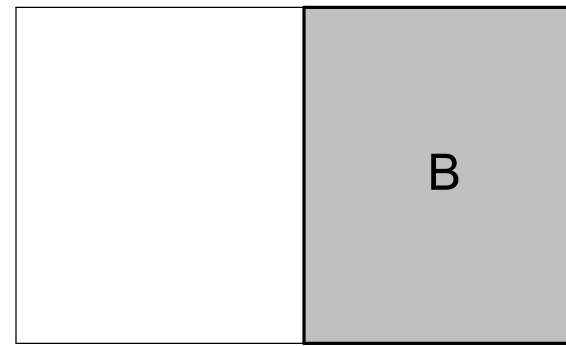


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MEP Engineers
628 Winchester Rd.
Lexington, KY 40505



Element Design, PLLC.
366 S. Broadway
Lexington, KY 40508

KEYPLAN

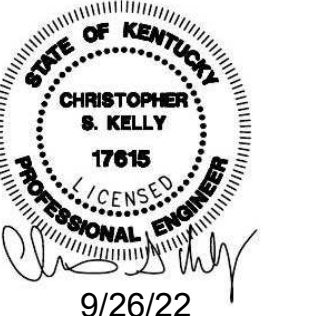


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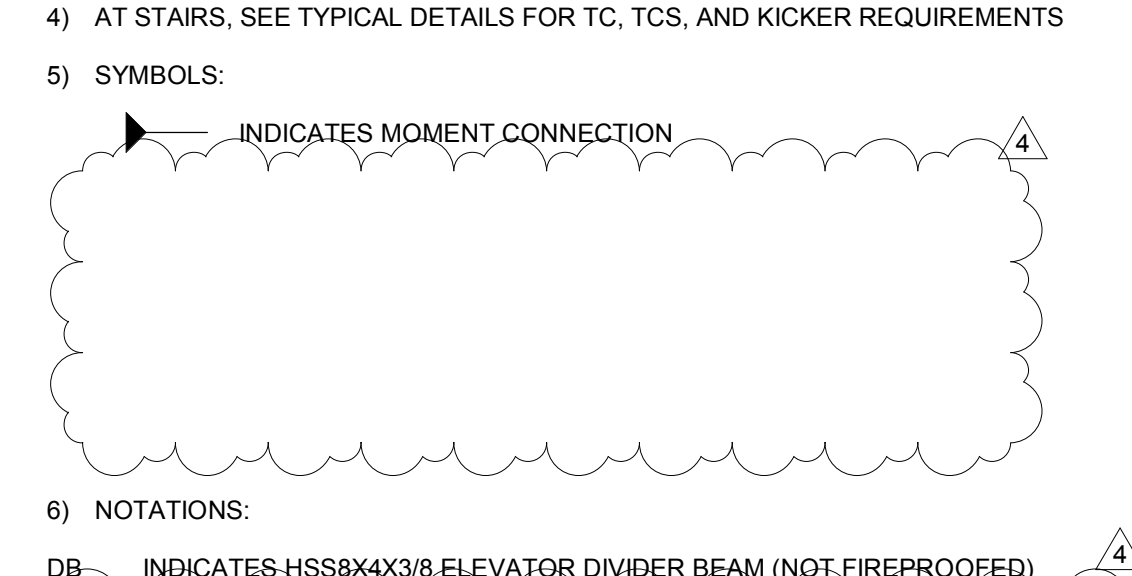
Job Number POAGE 20149 PLAN
Drawn By MWF
Checked By NGW
Date 9/26/2022



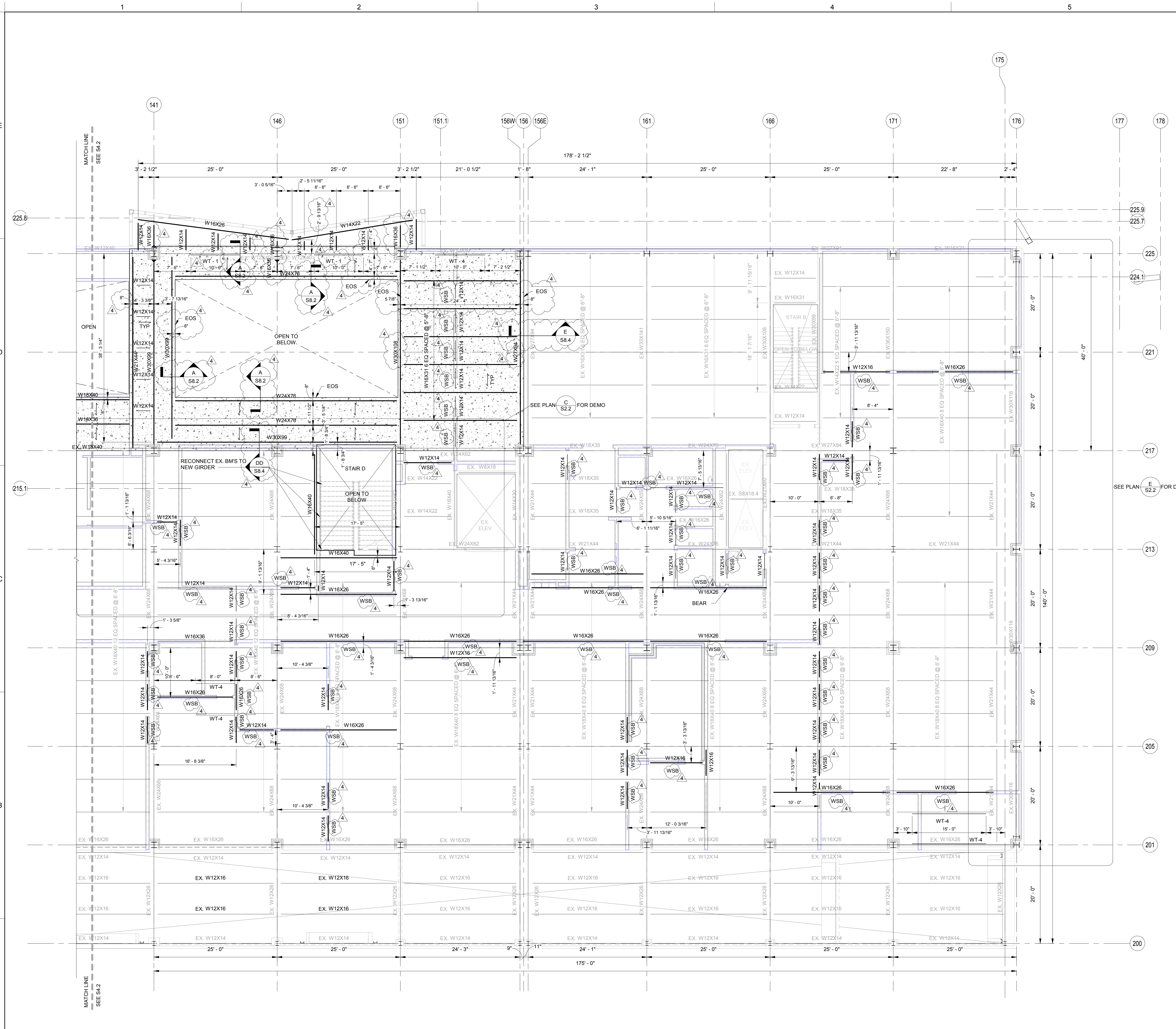
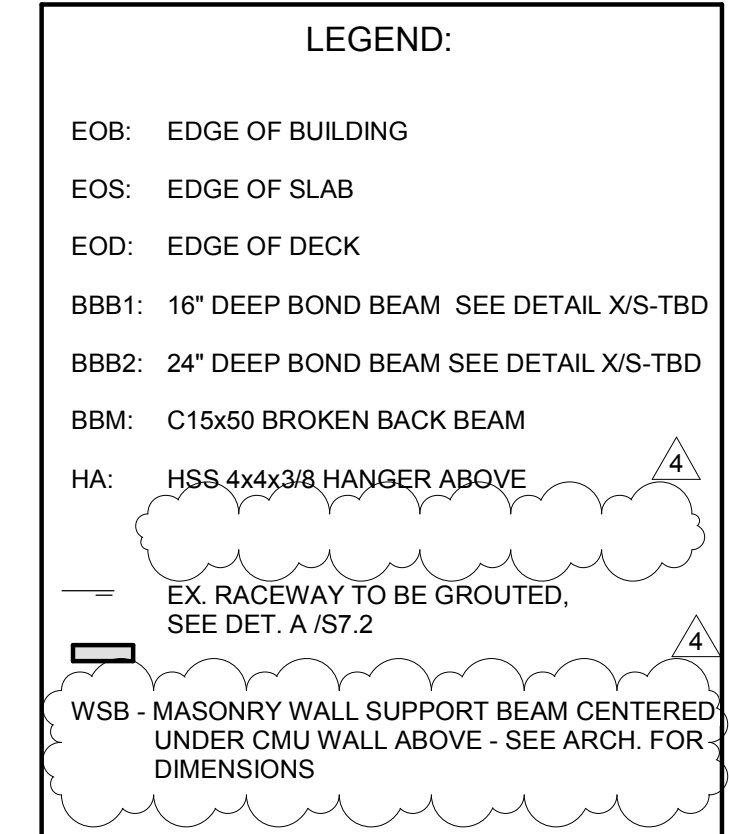
LEVEL 3 FRAMING PLAN B

S4.3

- NOTES:
- DATUM ELEVATION 0'-0"
STRUCTURAL SLAB ELEVATION = +28'-6"
 - T/STEEL ELEVATION = -6" RELATIVE TO TOP OF SLAB
 - INDICATES DECK SPAN DIRECTION
INDICATES 4 3/4" NWC SLAB ON 1 1/2" (20 GAGE) COMPOSITE STEEL DECK WITH 6X6-W4.0 X W4.0 WWR (TYP UND)
D1 INDICATES 1-1/2" TYPE B ROOF DECK 22 GAGE
 - AT STAIRS, SEE TYPICAL DETAILS FOR TC, TCS, AND KICKER REQUIREMENTS
 - SYMBOLS:
INDICATES MOMENT CONNECTION



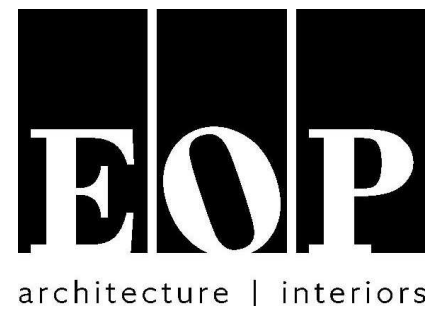
- 6) NOTATIONS:
DB INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
- RC INDICATES EXISTING COLUMN CONNECTION TO BE REINFORCED. SEE TYPICAL DETAILS
- WT INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
- PL INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
- 7) ALL DIMENSIONS NOTED TO BE VERIFIED IN FIELD BY CONTRACTOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS.



LEVEL 3 FRAMING PLAN B

BEAM REINFORCEMENT SCHEDULE					
REIN. MARK	BEAM SIZE	REIN. SIZE	WELD SIZE, a	REIN. LENGTH	ADD'L NOTES
PL-1	SEE PLAN	PL3/8"x6 1/2"	1/4	9'-0" CENTERED ON BEAM UON	
WT-1	SEE PLAN	WT6x20	1/4	18'-0" CENTERED ON BEAM UON	

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ENGINEERS
& ASSOCIATES**

Poage Engineers & Associates Inc
Structural Engineers
880 Sparta Ct, Ste. 200
Lexington, KY 40504

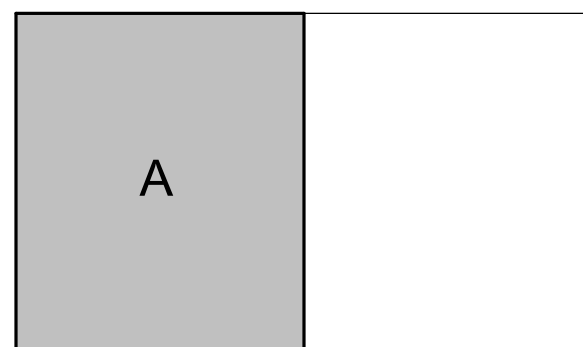
**SHROUT
TATE
WILSON**

ShROUT Tate Wilson Consulting Engineers
MEP Engineers
628 Winchester Rd.
Lexington, KY 40505

**element
design**

Element Design, PLLC.
366 S. Broadway
Lexington, KY 40508

KEYPLAN

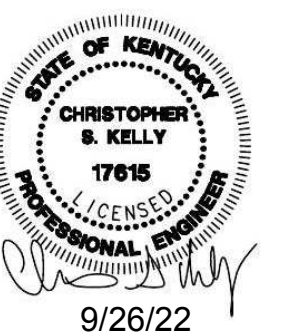


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Drawn By MWF
Checked By NGW
Date 9/26/2022



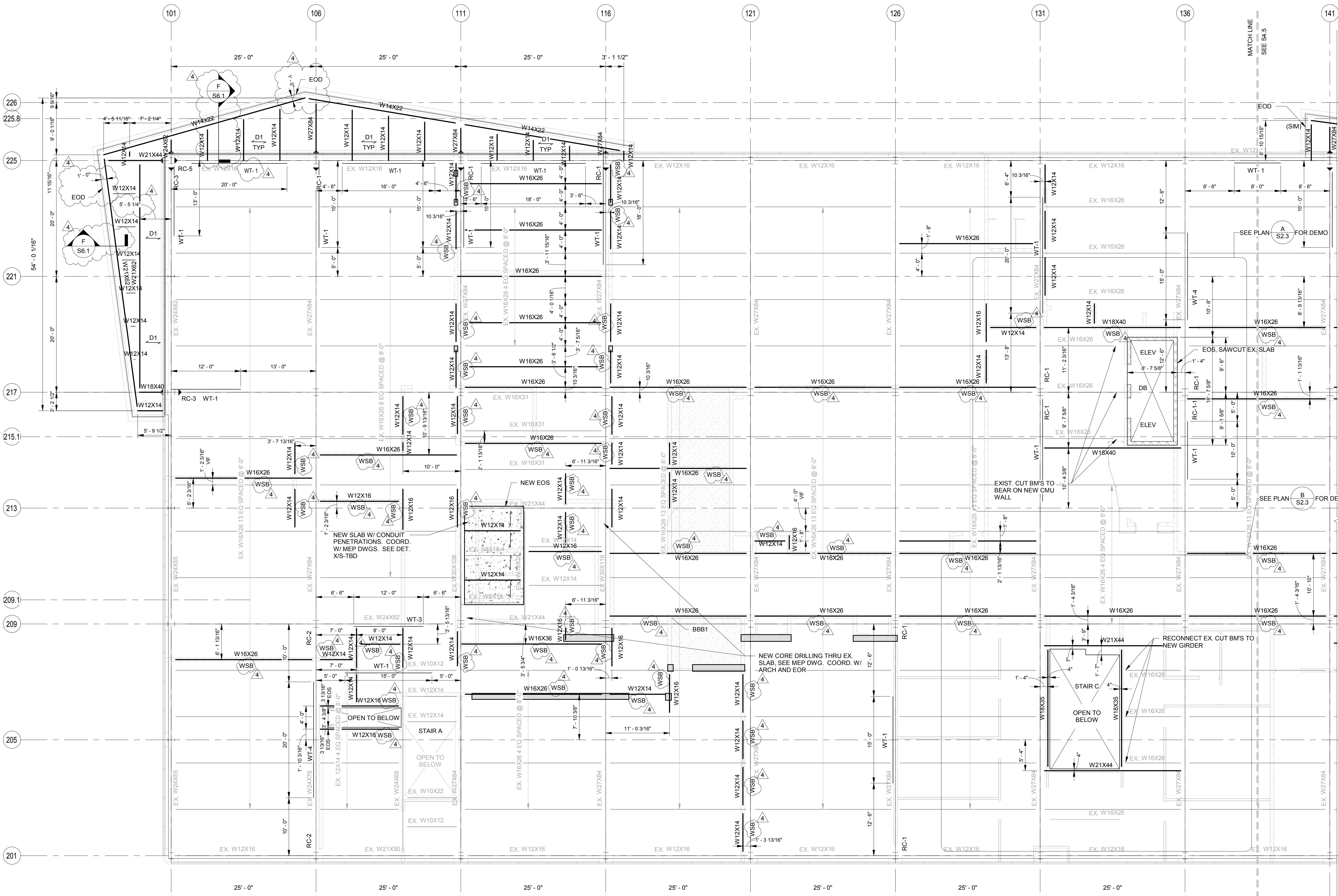
**LEVEL 4 FRAMING
PLAN A**

S4.4

- NOTES:
- 1) DATUM ELEVATION 0'-0"
T/STRUCTURAL SLAB ELEVATION = +4'-6"
 - 2) T/STEEL ELEVATION = -6" RELATIVE TO TOP OF SLAB
 - 3) → INDICATES DECK SPAN DIRECTION
→ INDICATES 4 3/4" NWC SLAB ON 1 1/2" (20 GAGE) COMPOSITE STEEL DECK WITH 6X6-W4.0 X W4.0 WWR (TYP UND)
D1 → INDICATES 1-1/2" TYPE B ROOF DECK 22 GAGE
 - 4) AT STAIRS, SEE TYPICAL DETAILS FOR TC, TCS, AND KICKER REQUIREMENTS
 - 5) SYMBOLS:
→ INDICATES MOMENT CONNECTION
→ INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
 - 6) NOTATIONS:
RC → INDICATES EXISTING COLUMN CONNECTION TO BE REINFORCED. SEE TYPICAL DETAILS
WT → INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
PL → INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
 - 7) ALL DIMENSIONS NOTED TO BE VERIFIED IN FIELD BY CONTRACTOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS.

LEGEND:

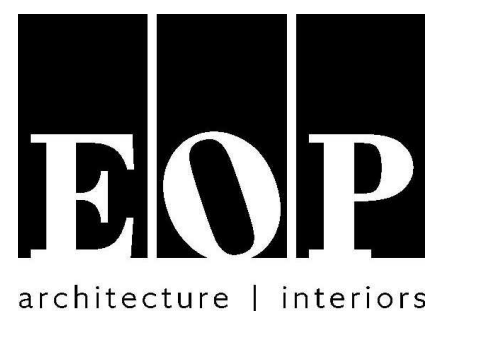
- EOB: EDGE OF BUILDING
- EOS: EDGE OF SLAB
- EOD: EDGE OF DECK
- BBB1: 16" DEEP BOND BEAM SEE DETAIL X/S-TBD
- BBB2: 24" DEEP BOND BEAM SEE DETAIL X/S-TBD
- BBM: C15x50 BROKEN BACK BEAM
- HA: HSS 4x4x3/8 HANGER ABOVE
- EX RACEWAY TO BE GROUDED, SEE DET. A/S7.2
- WSB - MASONRY WALL SUPPORT BEAM CENTERED UNDER CMU WALL ABOVE - SEE ARCH. FOR DIMENSIONS



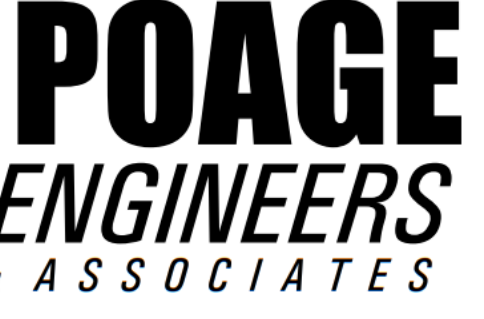
LEVEL 4 FRAMING PLAN A

BEAM REINFORCEMENT SCHEDULE					
REIN. MARK	BEAM SIZE	REIN. SIZE	WELD SIZE, a	REIN. LENGTH	ADD'L NOTES
PL-1	SEE PLAN	PL3/8"x6 1/2"	1/4	9'-0" CENTERED ON BEAM UON	
WT-1	SEE PLAN	WT6x20	1/4	18'-0" CENTERED ON BEAM UON	

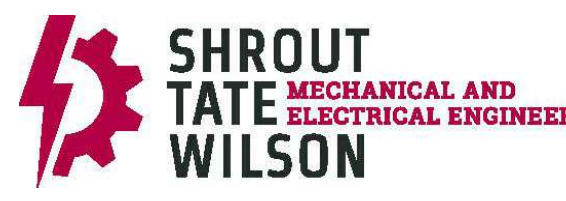
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#	DATE	DESCRIPTION
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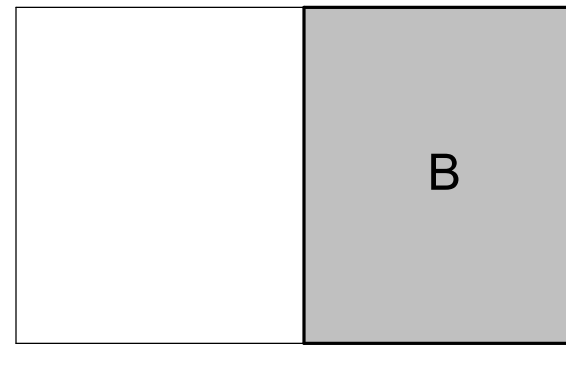


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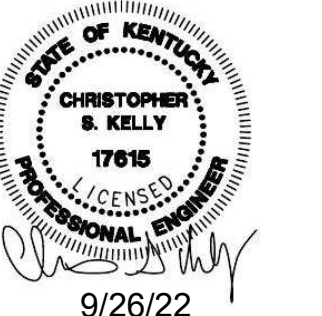


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Drawn By MWF
Checked By NGW
Date 9/26/2022



**LEVEL 4 FRAMING
PLAN B**

S4.5

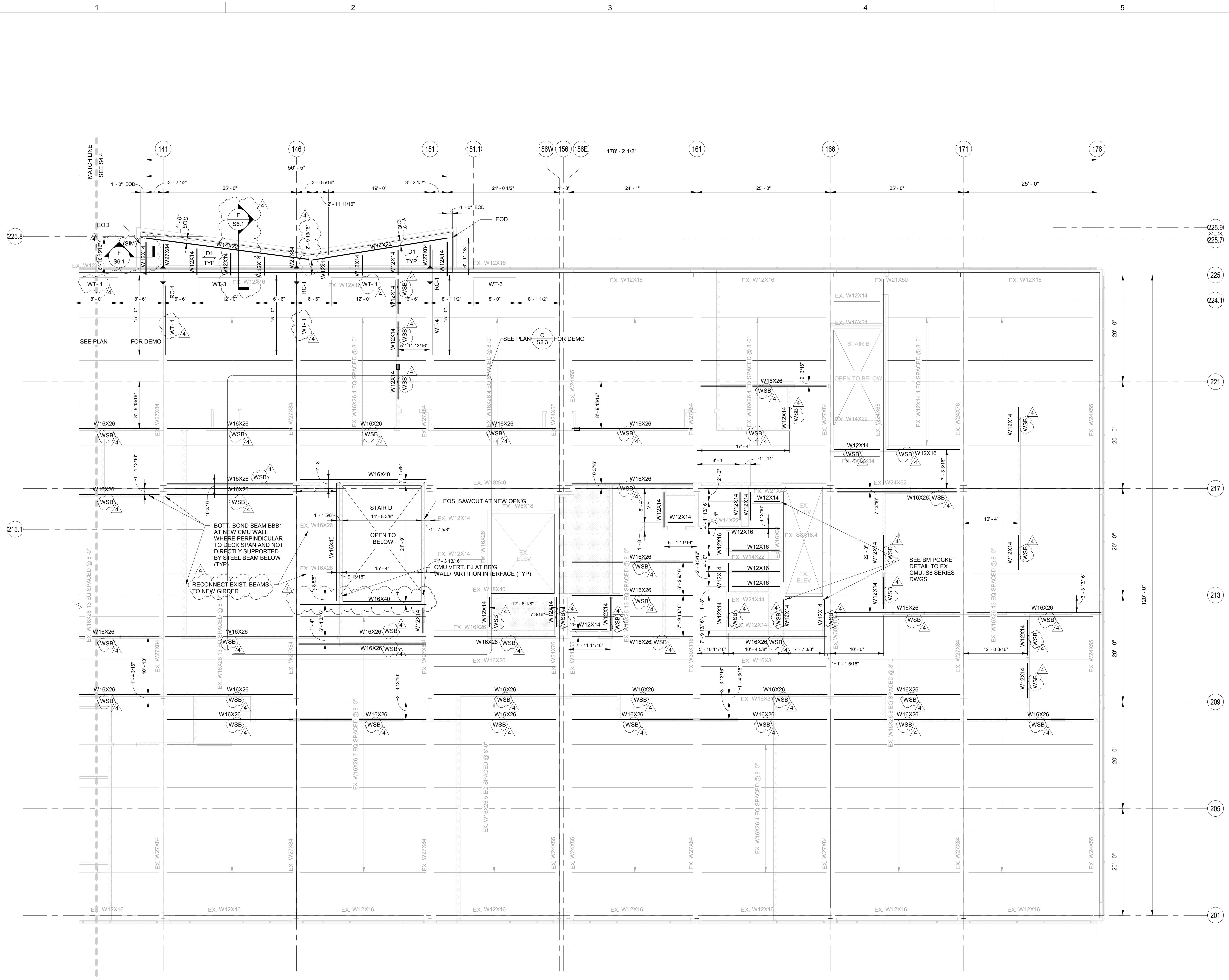
- NOTES:**
- DATUM ELEVATION 0'-0"
T/STRUCTURAL SLAB ELEVATION = +47'-6"
 - T/STEEL ELEVATION = -6" RELATIVE TO TOP OF SLAB
 - INDICATES DECK SPAN DIRECTION
INDICATES 4 3/4" NWC SLAB ON 1 1/2" (20 GAGE) COMPOSITE STEEL DECK WITH 6X6-W4.0 X W4.0 WWR (TYP UND)
D1 INDICATES 1-1/2" TYPE B ROOF DECK 22 GAGE
 - AT STAIRS, SEE TYPICAL DETAILS FOR TC, TCS, AND KICKER REQUIREMENTS
 - SYMBOLS:
INDICATES MOMENT CONNECTION
INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)

6) NOTATIONS:

- DB INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
- RC- INDICATES EXISTING COLUMN CONNECTION TO BE REINFORCED. SEE TYPICAL DETAILS
- WT- INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
- PL- INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
- ALL DIMENSIONS NOTED TO BE VERIFIED IN FIELD BY CONTRACTOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS.

LEGEND:

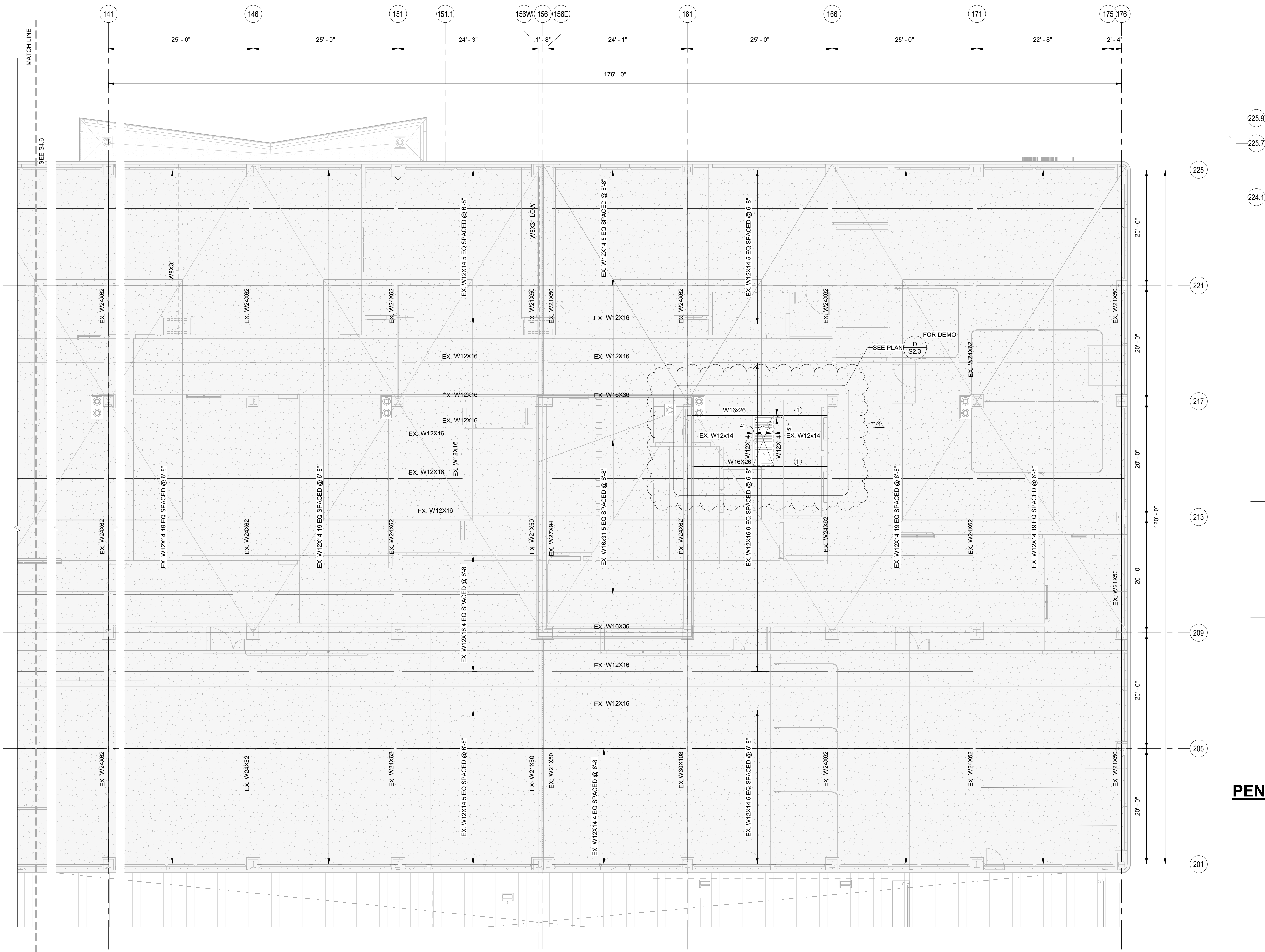
- EOB: EDGE OF BUILDING
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- BBB1: 16" DEEP BOND BEAM SEE DETAIL X/S-TBD
- BBB2: 24" DEEP BOND BEAM SEE DETAIL X/S-TBD
- BBM: C15x50 BROKEN BACK BEAM
- HA: HSS 4x4x3/8 HANGER ABOVE
- EX RACEWAY TO BE GROUTED, SEE DET. A/S7.2
- WSB - MASONRY WALL SUPPORT BEAM CENTERED UNDER CMU WALL ABOVE - SEE ARCH. FOR DIMENSIONS



LEVEL 4 FRAMING PLAN B

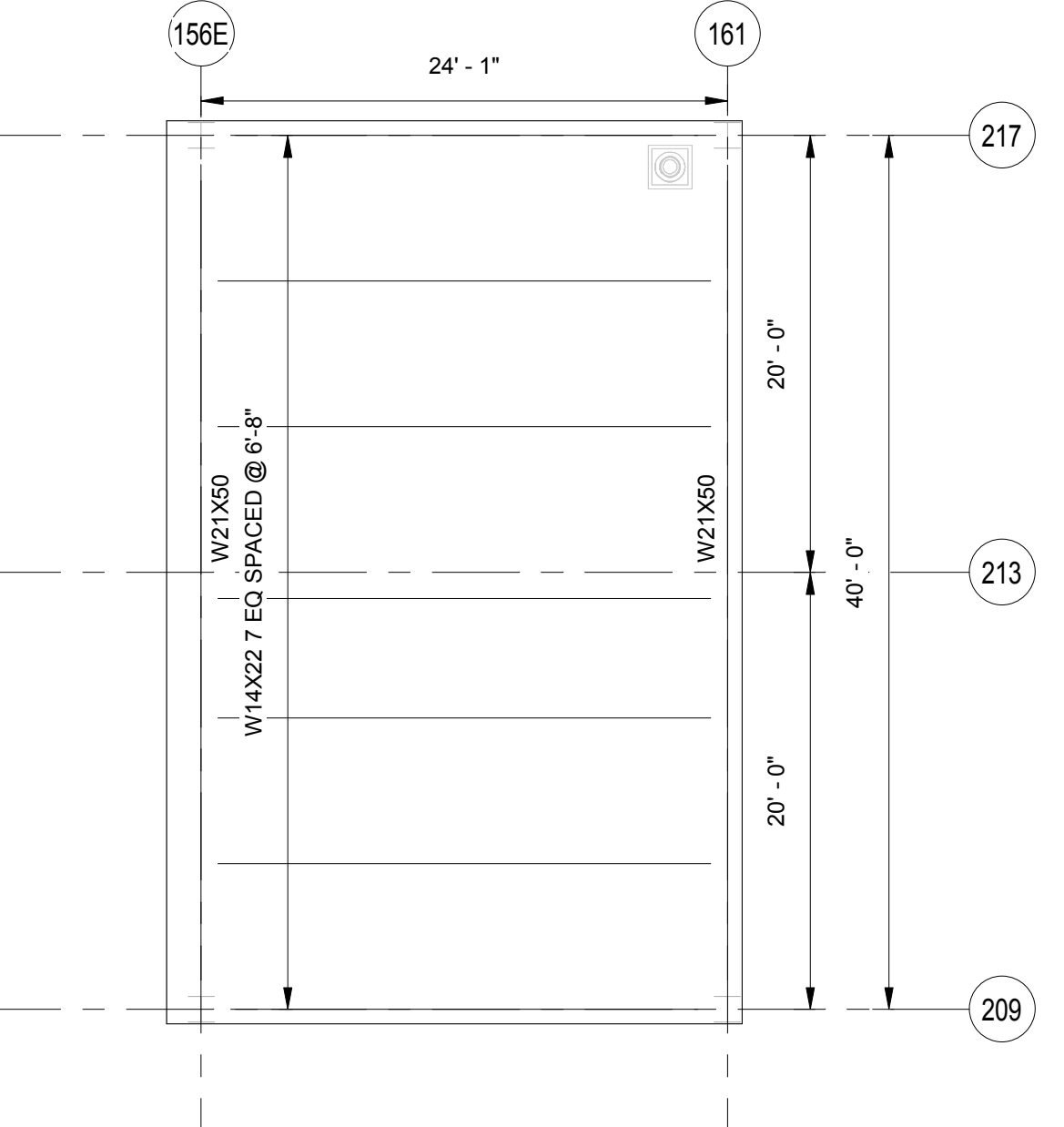
BEAM REINFORCEMENT SCHEDULE

REIN. MARK	BEAM SIZE	REIN. SIZE	WELD SIZE, a	REIN. LENGTH	ADD'L NOTES
PL-1	SEE PLAN	PL3/8"x6 1/2"	1/4	9'-0" CENTERED ON BEAM UON	
WT-1	SEE PLAN	WT6X20	1/4	18'-0" CENTERED ON BEAM UON	

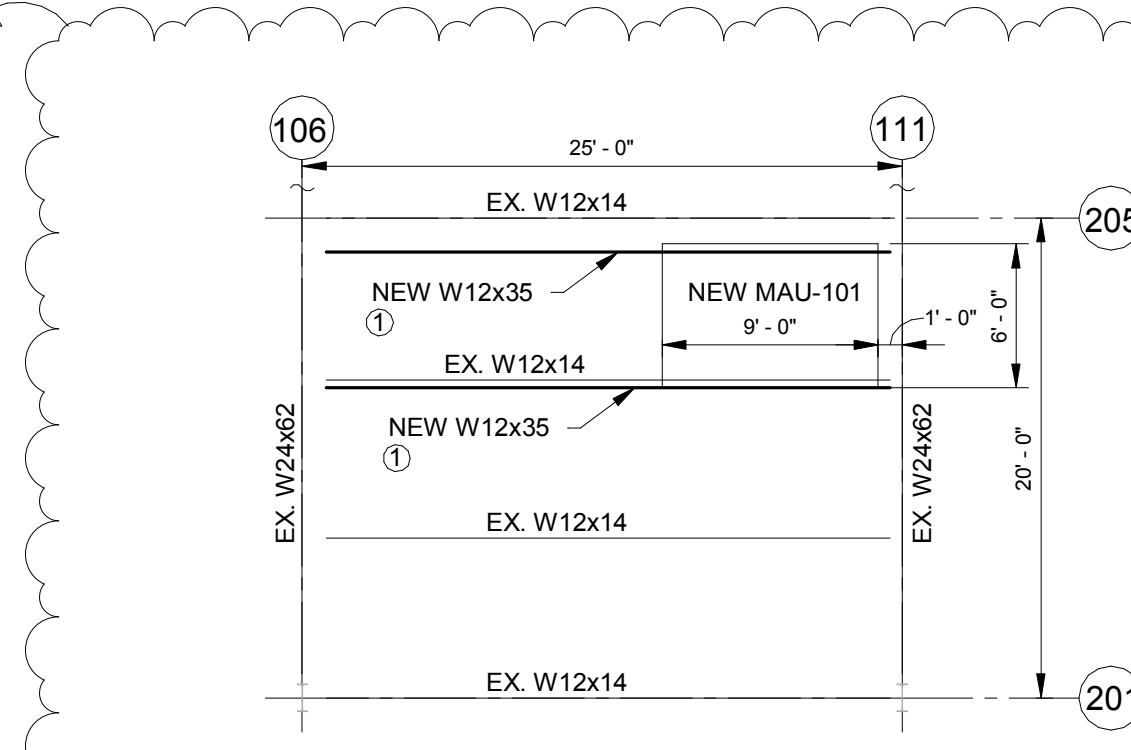


ROOF FRAMING PLAN B

- NOTES:
- DATUM ELEVATION 0'-0"
 - STRUCTURAL SLAB ELEVATION = +60'-7"
 - STEEL ELEVATION VARIES
 - INDICATES DECK SPAN DIRECTION
 - INDICATES 4 3/4" NWC SLAB ON 1 1/2" (20 GAGE) COMPOSITE STEEL DECK WITH 6X6-W4.0 X W4.0 WWR (TYP UND)
 - INDICATES 1-1/2" TYPE B ROOF DECK 22 GAGE
 - AT STAIRS, SEE TYPICAL DETAILS FOR TCS, AND KICKER REQUIREMENTS
 - SYMBOLS:
 - INDICATES MOMENT CONNECTION
 - INDICATES HSS8X4X3/8 ELEVATOR DIVIDER BEAM (NOT FIREPROOFED)
 - INDICATES EXISTING COLUMN CONNECTION TO BE REINFORCED. SEE TYPICAL DETAILS
 - INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
 - INDICATES EXISTING BEAM TO BE REINFORCED. SEE A/S6.0
 - ALL DIMENSIONS NOTED TO BE VERIFIED IN FIELD BY CONTRACTOR. COORDINATE WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS.

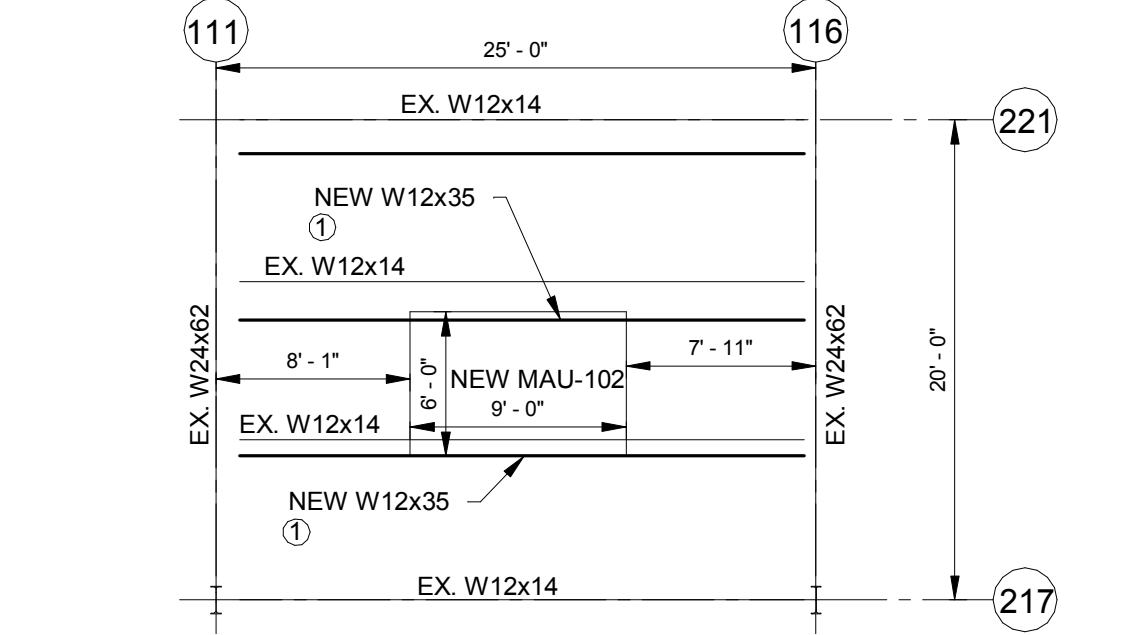


PENTHOUSE ROOF FRAMING PLAN B



MAU-101 SUPPORT STEEL PLAN

① -INSTALL NEW BEAMS TIGHT TO UNDERSIDE OF EXIST. ROOF DECK



MAU-102 SUPPORT STEEL PLAN

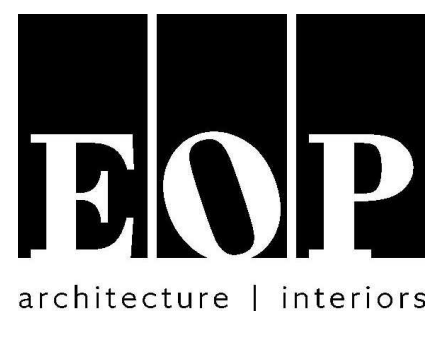
① -INSTALL NEW BEAMS TIGHT TO UNDERSIDE OF EXIST. ROOF DECK

NEW FCPS COMBINED CTE SCHOOL
BG# 22-167

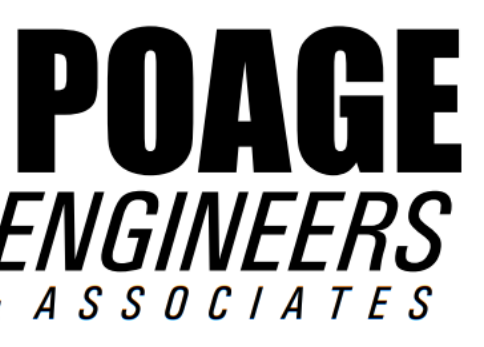
100 Midland Ave,
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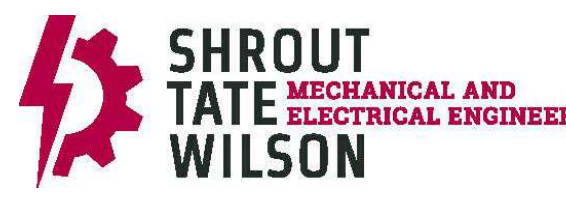
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#	DATE	DESCRIPTION
4	10-27-22	Revision 4



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Lexington, KY 40504

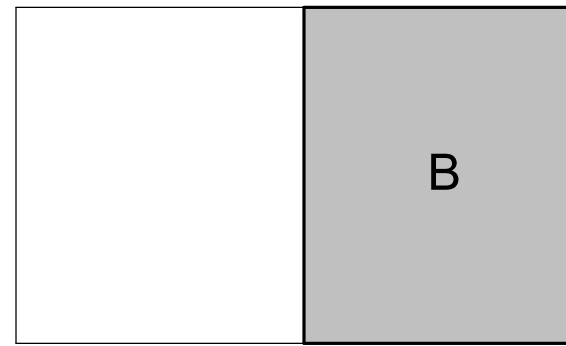


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MEP Engineers
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KEYPLAN

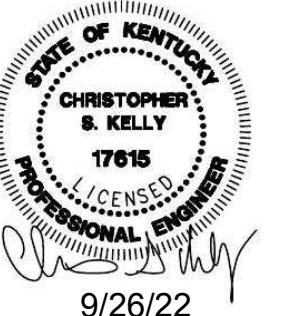


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Drawn By MWF
Checked By NGW
Date 9/26/2022

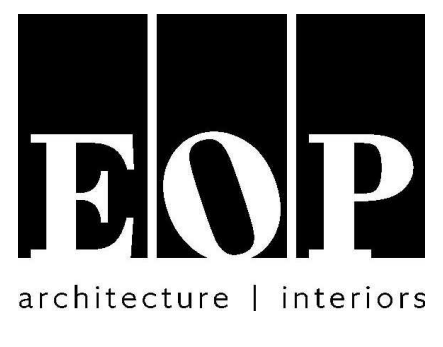


9/26/22

ROOF FLOOR FRAMING PLAN B

S4.7

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& ASSOCIATES**
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628 Winchester Rd.
Lexington, KY 40505

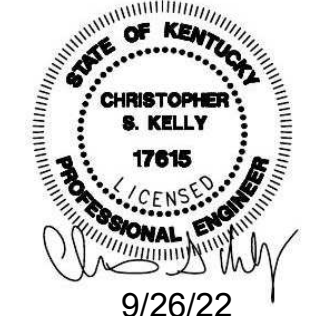
**element
design**
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Lexington, KY 40508

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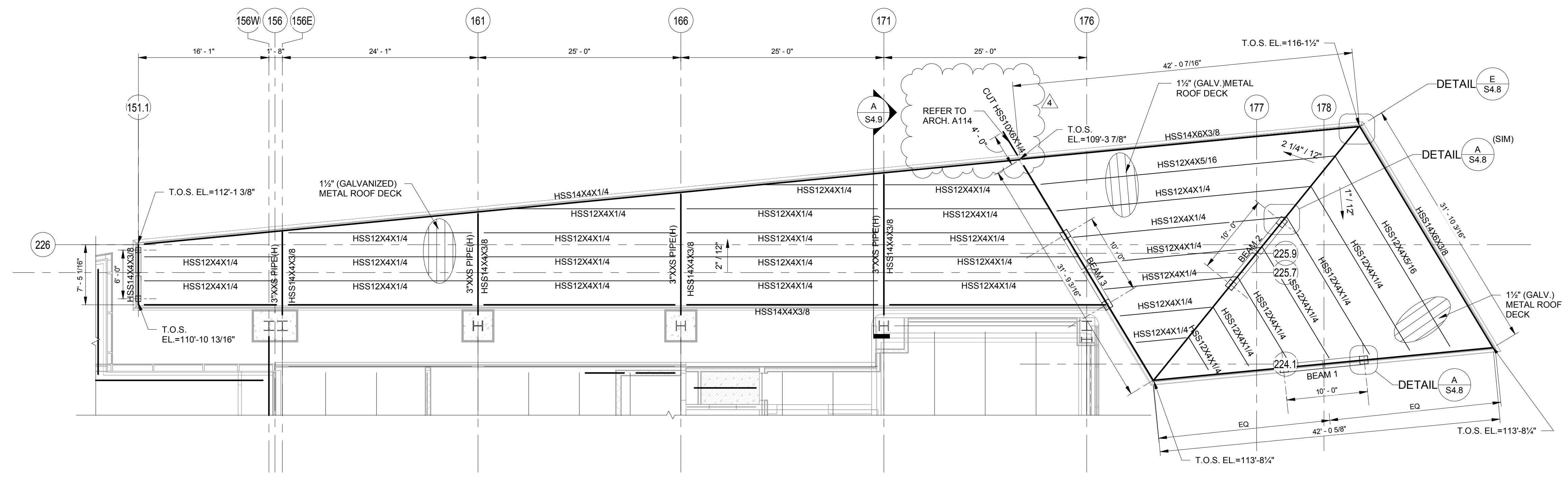
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Job Number POAGE 20149 PLAN TRUE
Drawn By BCV
Checked By CSK
Date 9/26/2022



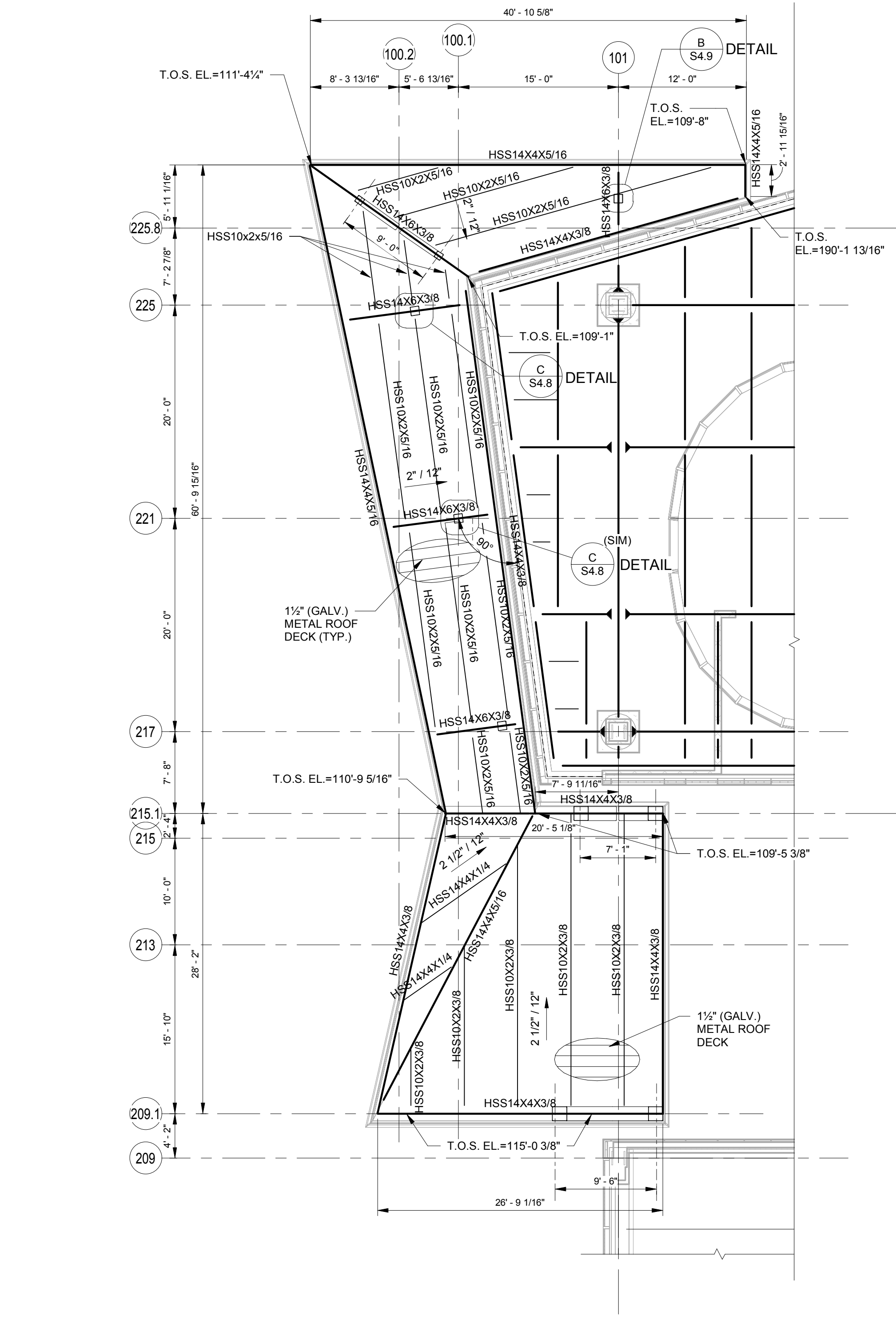
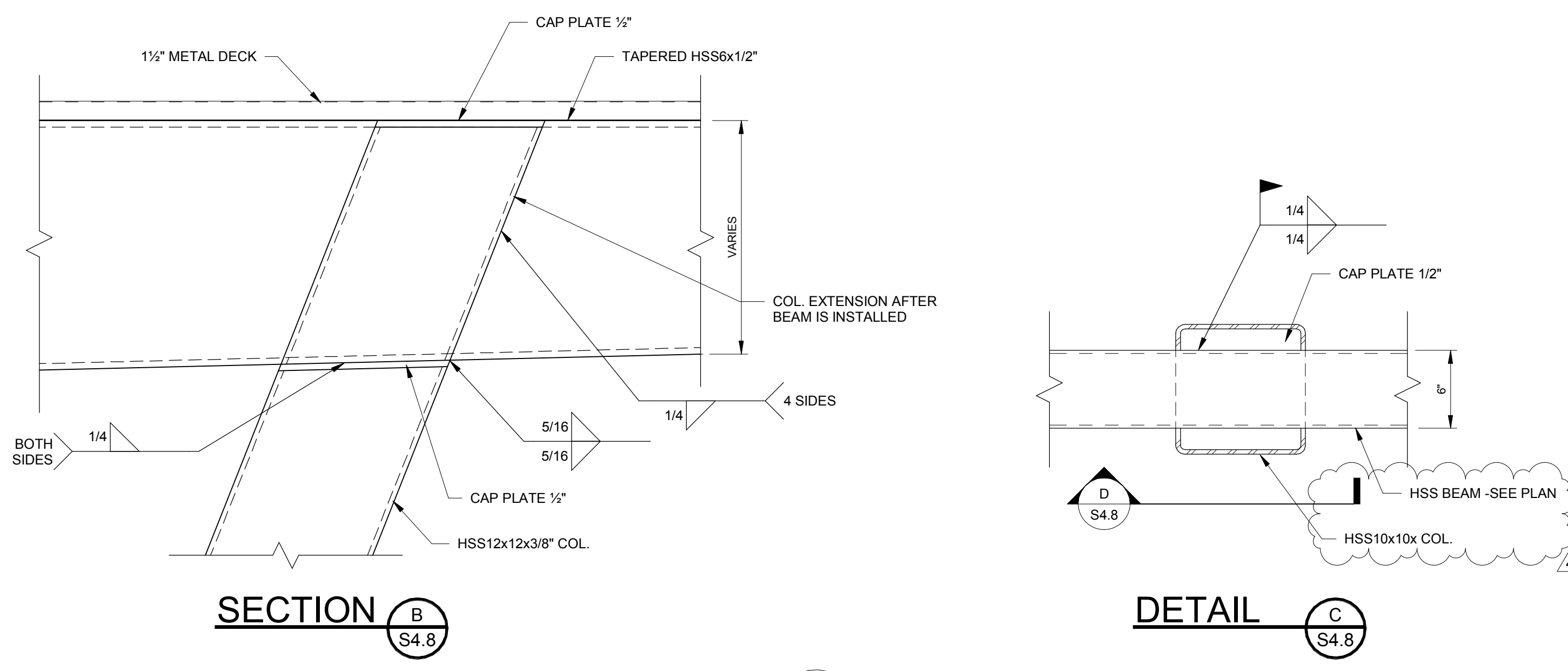
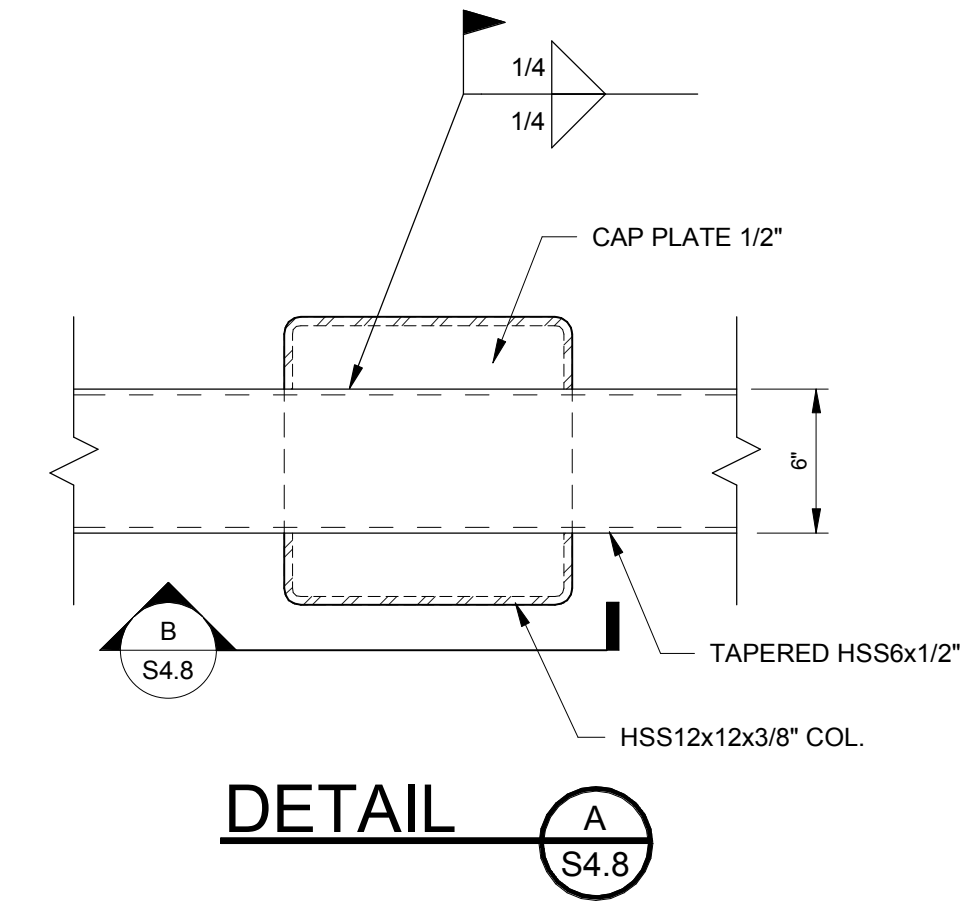
CANOPY FRAMING PLANS

S4.8

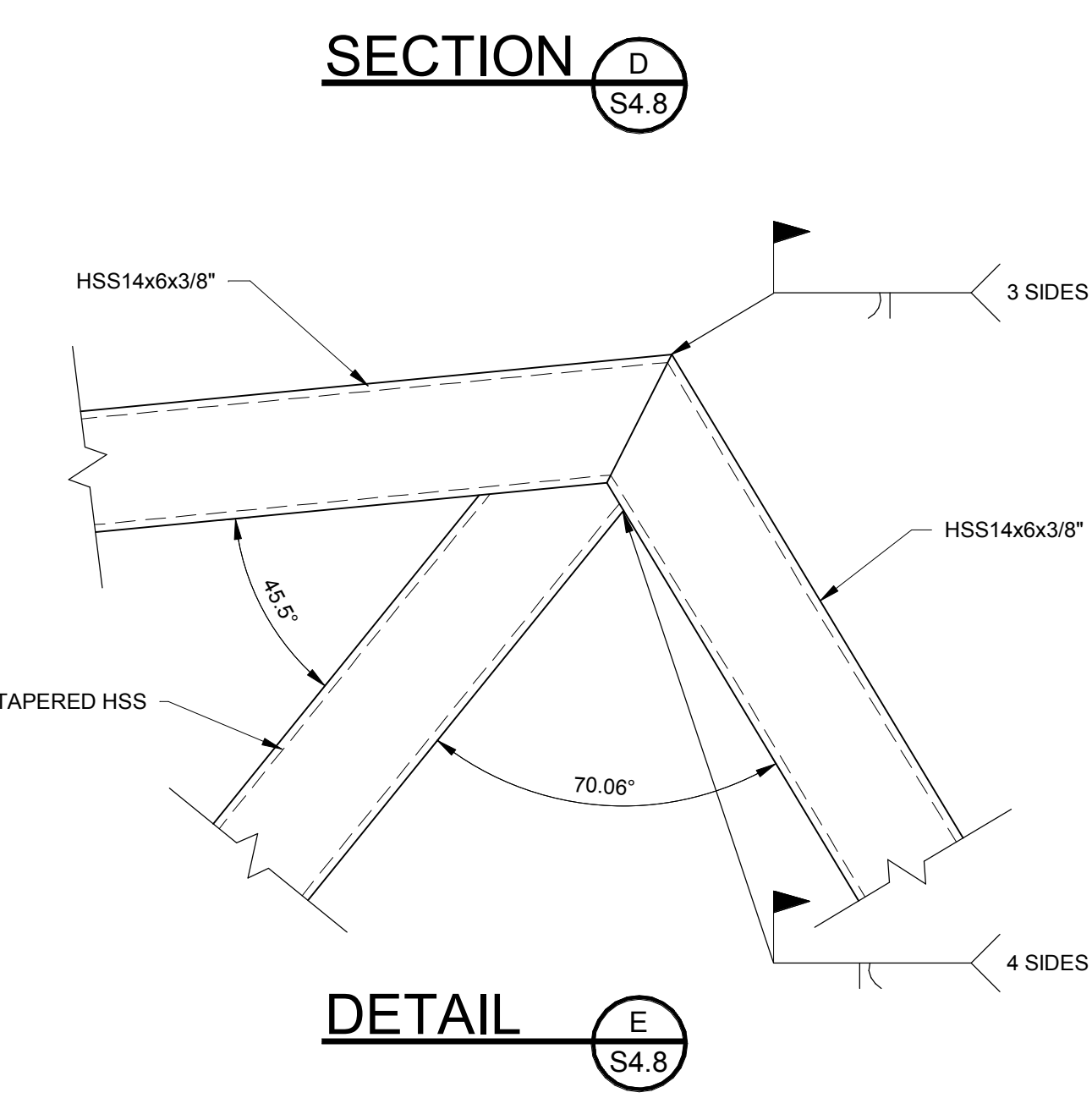
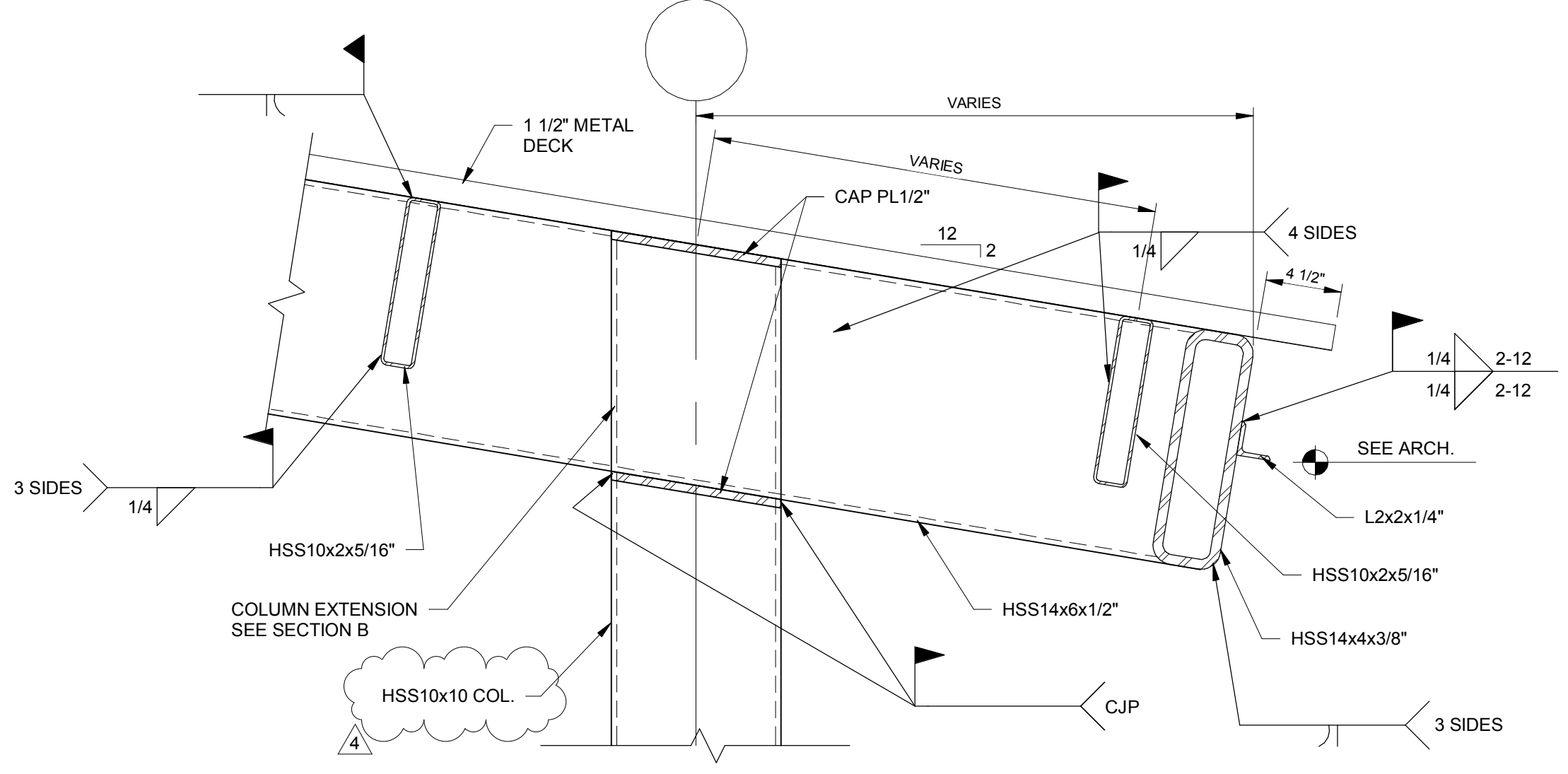
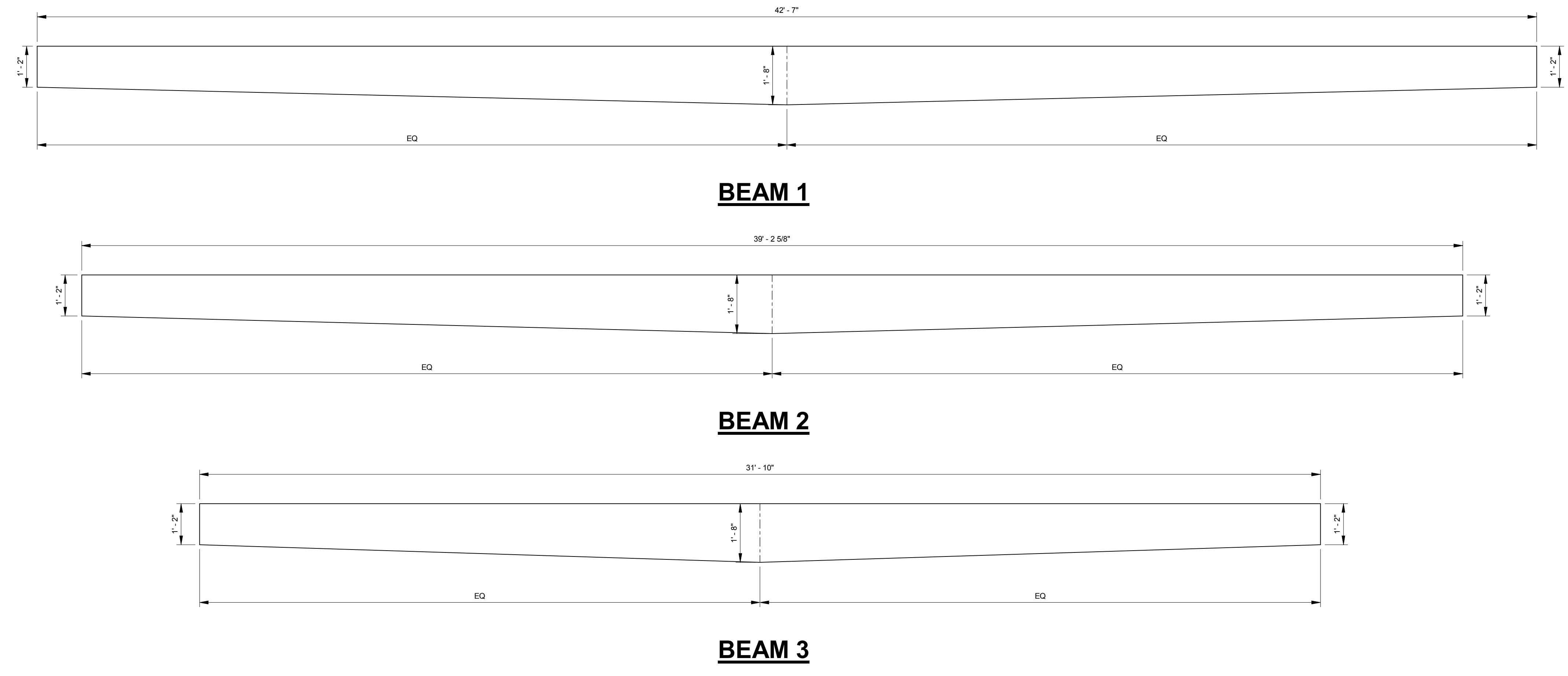


CANOPY "B" FRAMING PLAN

- NOTES:
- 1) ALL EXTERIOR CANOPY STEEL SHALL BE DESIGNATED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) LEVEL 2 (REFER TO SPECIFICATION SECTION 051213)
 - 2) ALL EXPOSED STEEL SHALL BE HOT DIPPED GALVANIZED.



CANOPY "A" FRAMING PLAN

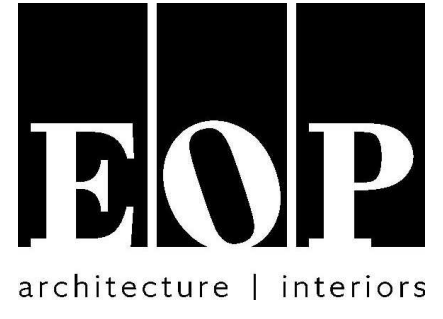


**NEW FCPS
COMBINED CTE
SCHOOL**
BG# 22-167

100 Midland Ave,
Lexington, KY 40508

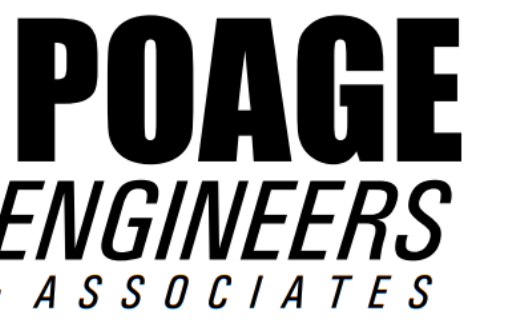
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PROJECT TEAM

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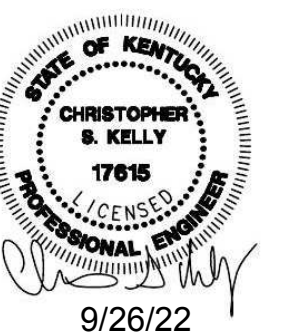
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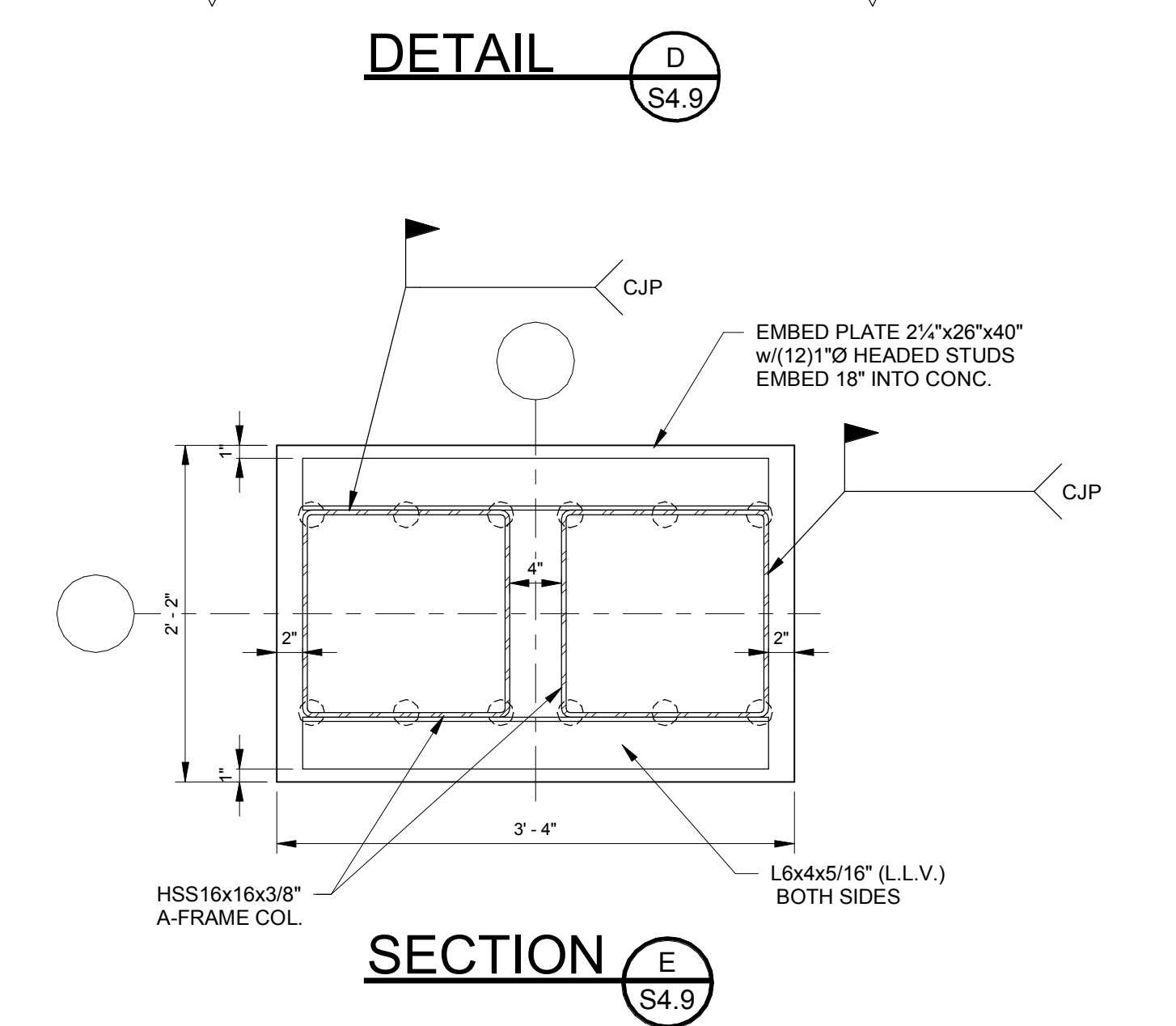
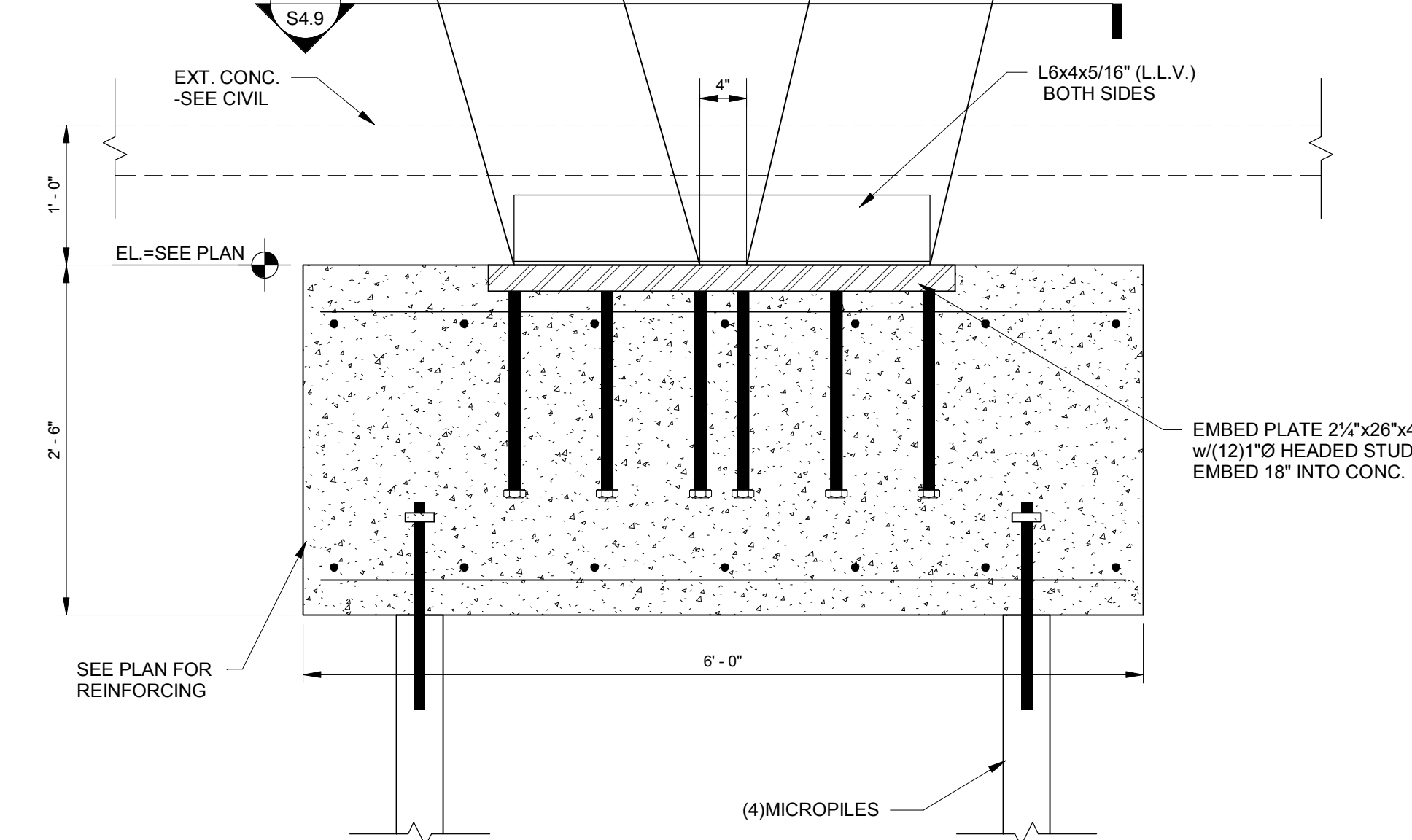
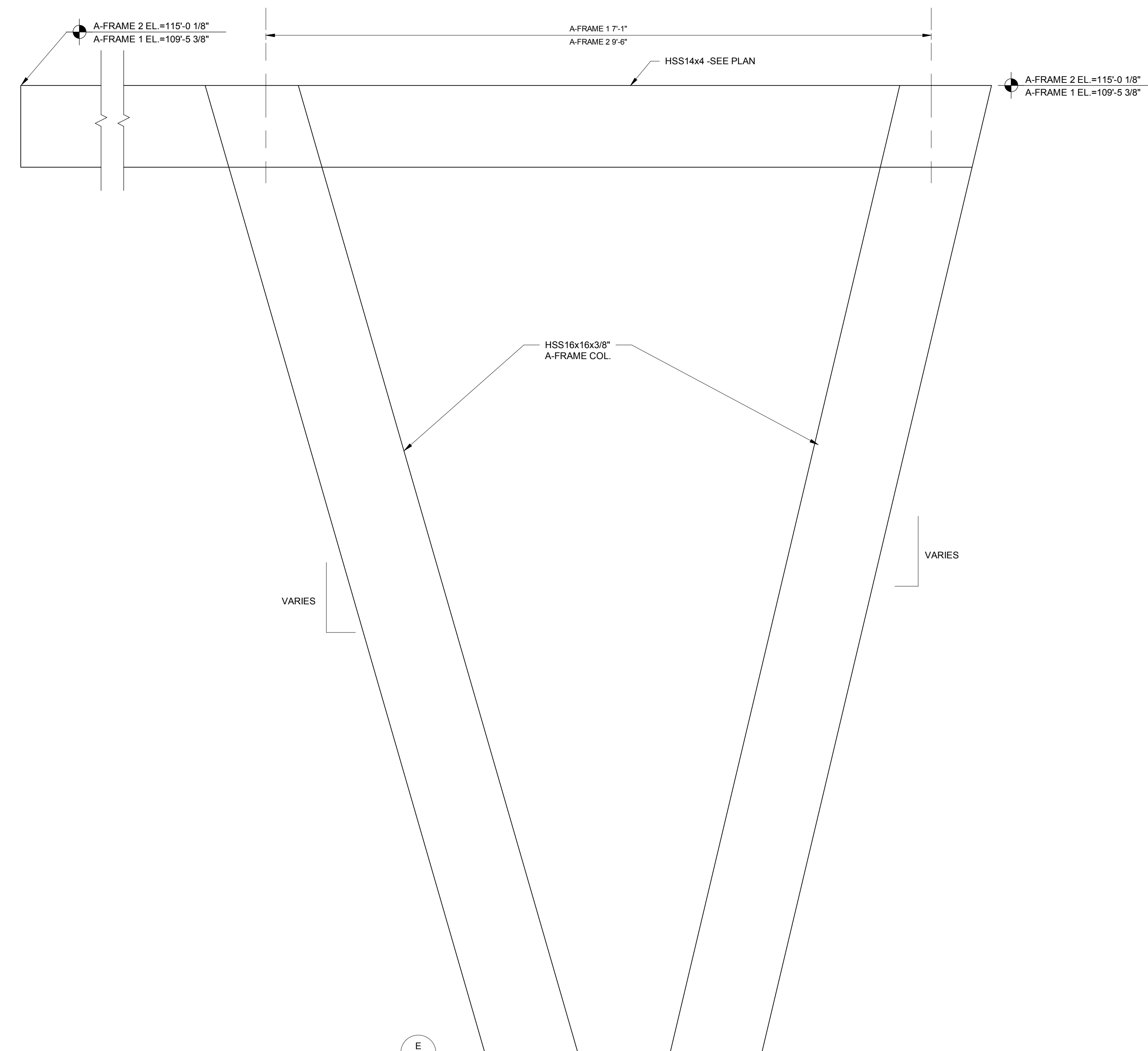
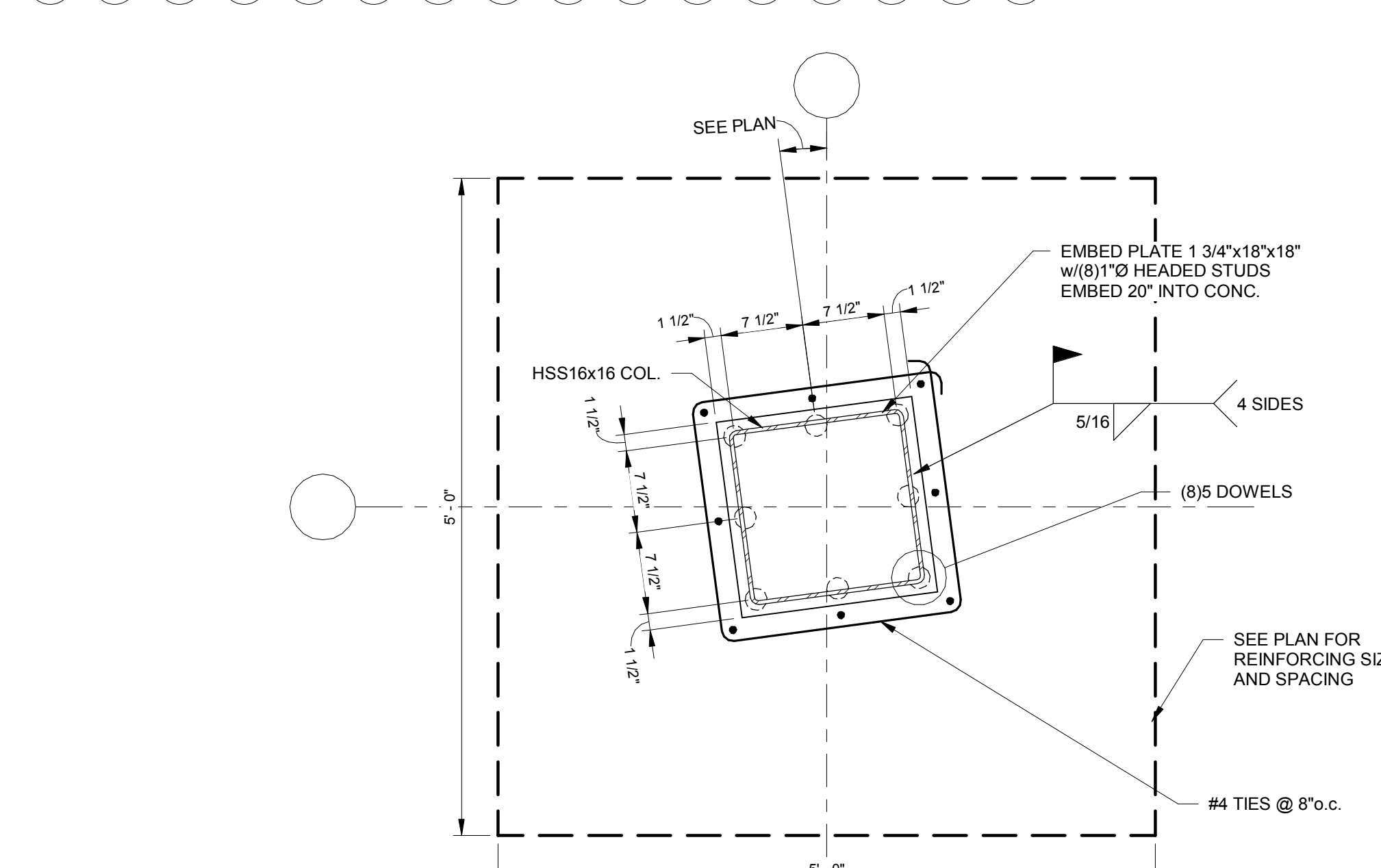
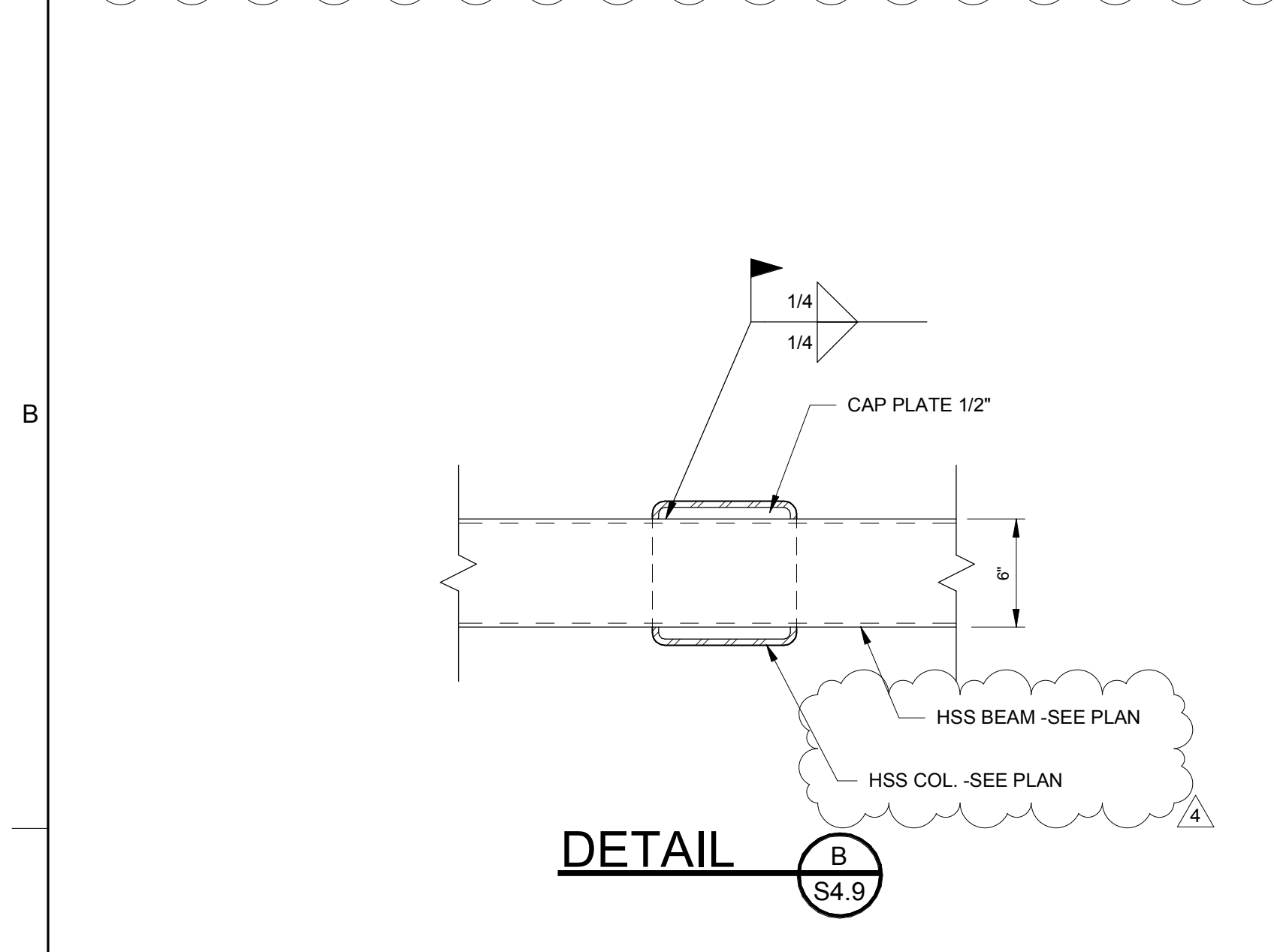
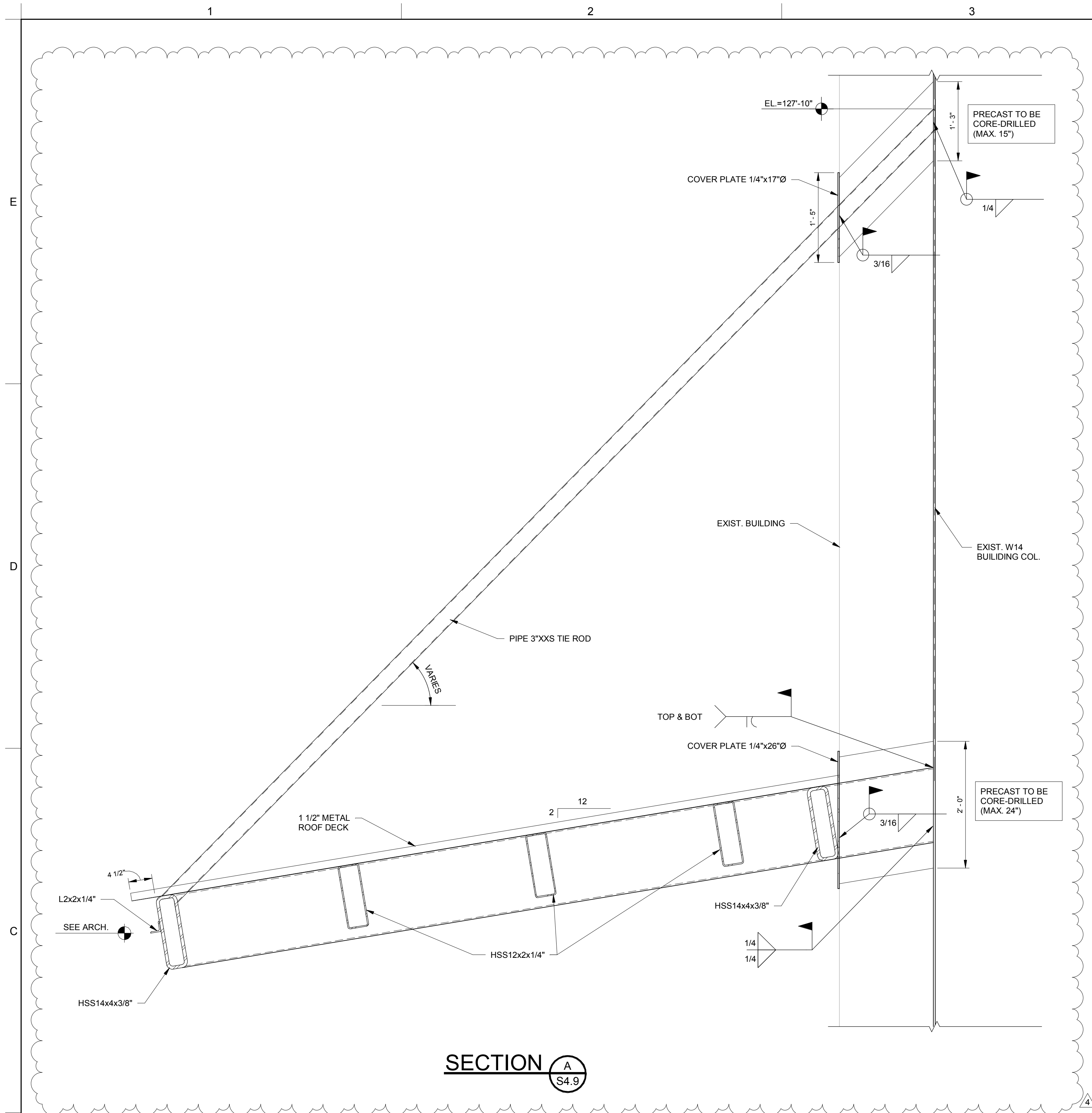
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Date 9/26/2022



SECTION AND DETAILS

S4.9



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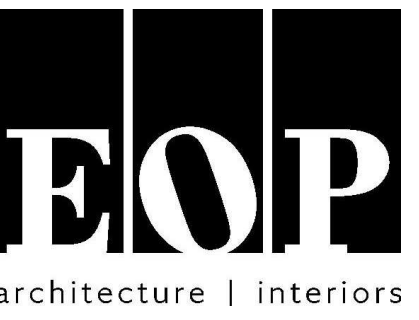
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REVISIONS		
#	DATE	DESCRIPTION
4	10-27-22	Revision 4



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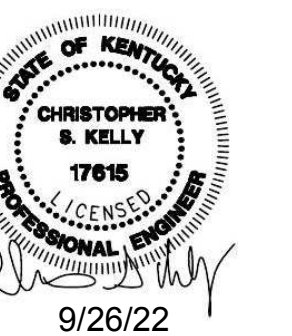
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Drawn By MWF
Checked By NGW
Date 9/26/2022



**SECTIONS AND
DETAILS**

S6.0

1
2
3
4
5
6

TYPICAL BEAM REINFORCEMENT DETAIL (A S6.0)

NOTE:
- SEE PLANS FOR LOCATIONS
- INTERMITTENT WELD. SEE SCHEDULE FOR CONTINUOUS WELD AT EA. END OF PLATE/WT
- WELD SHALL BE MADE DIRECTLY TO BASE OF STEEL MATERIAL
- REMOVE ALL FIREPROOFING, PAINT OR OTHER FINISH IN THE AREA OF EXISTING STEEL TO BE WELDED PRIOR TO PLACING NEW FIELD WELDS
- RE-APPLY PAINT AND/OR FIRE PROTECTION PER ARCHITECTURAL REQUIREMENTS

TYPICAL NEW BEAM AT NEW CUT OPENING (B S6.0)

REINFORCING SCHEDULE

MARK	REINFORCING SIZE	WELD SIZE
WT-1	WT 6x20	1/4" FILLET
PL-1	6 1/2"x3/8"	1/4" FILLET

NOTE: SEE PLAN FOR LENGTH AND EXISTING BEAM SIZE

TYPICAL STEEL DECK SLAB EDGE AT NEW OPENING (C S6.0)

D
E

SECTION (D S6.0)

TYPICAL FLOOR OPENING DETAIL (F S6.0)

TYPICAL BEAM/COLUMN CONNECTION (E S6.0)

BEAM	WELD	ANGLE SIZE	SEAT ANGLE
W8/W10	1/4	(2)L's3x3x1/4"x6"	L4x4x1/2"
W12/W14	1/4	(2)L's3x3x1/4"x9"	L4x4x1/2"
W16	1/4	(2)L's3x3x1/4"x12"	L4x4x1/2"
W18	1/4	(2)L's3x3x5/16"x12"	L4x4x1/2"
W21	1/4	(2)L's3x3x3/8"x15"	L4x4x1/2"
W24	1/4	(2)L's3x3x3/8"x15"	L4x4x1/2"
W27	5/16	(2)L's3x3x1/2"x21"	L6x6x1/2"
W30	5/16	(2)L's3x3x1/2"x21"	L6x6x1/2"

C
B

DEEP SUPPORTED BEAM

TYPE	B OR BA	FTD	GRAY	GAGE	22
FINISH	136	in.3	n	147	in.3
Sp	133	in.4	n	33	ksi

DECK/DECK (SIDELAP) FASTEN @ 36"o.c. (MAX.) (#10 x 3/4" TYPE NO. 3)

DECK/SUPPORT FASTEN @ 12"o.c. (#12 x 3/4" TYPE NO. 3)

TYPICAL ROOF DECK ATTACHMENT

TYPE	VL	GALVANIZED	GAGE	20	
FINISH	176	in.3	n	186	in.3
Sp	150	in.4	n	182	in.4
Fy	40	ksi	n	182	ksi

DECK/DECK (SIDELAP) FASTEN @ 36"o.c. (MAX.) (#12 x 3/4" TYPE NO. 3)

DECK/SUPPORT WELD WASHERS SPACED 12"o.c. MAX. (5/8" DIA. PUDDLE WELDS)

TYPICAL BEAM TO BEAM CONNECTION (G S6.0)

BEAM SIZE	ANGLE		WELD SIZE	BOLTS
	SIZE	LENGTH		
W8	2-L's3x3x1/4"	6"	3/16" FILLET	(4)-3/4"Ø A325
W12	2-L's3x3x1/4"	9"	3/16" FILLET	(6)-3/4"Ø A325
W16 & W18	2-L's3x3x5/16"	12"	1/4" FILLET	(8)-3/4"Ø A325
W21 & W24	2-L's3x3x3/8"	15"	5/16" FILLET	(10)-3/4"Ø A325
W27 & W30	2-L's3x3x1/2"	21"	5/16" FILLET	(12)-3/4"Ø A325

NOTE: STAGGER SUPPORT ANGLES ALLOWING EACH BEAM TO BE TEMPORARILY SUPPORTED DURING ERECTION. (IF APPLICABLE)

A

TYPICAL FLOOR DECK ATTACHMENT

TYPICAL NEW AND EXISTING SLAB JOINT (E S6.0)

NOTE:
- VERIFY LOCATION OF SLAB SAWCUT IN FIELD.
- EXISTING DECK SHALL BEAR ON EXISTING BEAM FLANGE BY 2 1/2" MIN. PROVIDE 2 1/2" BEARINGS OF NEW DECK ON EXISTING BEAM TO REMAIN. OTHERWISE PROVIDE NEW CONTINUOUS DECK SUPPORT PLATE AS SHOWN

TYPICAL FLOOR OPENING DETAIL (G S6.0)

A

TYPICAL ROOF OPENING (FOR ALL OPENINGS GREATER THAN 12") (INCLUDES BUT IS NOT LIMITED TO ROOF DRAINS)

TYPICAL BEAM/COLUMN CONNECTION (E S6.0)

TYPICAL BEAM TO BEAM CONNECTION (G S6.0)

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REVISIONS	
#	DESCRIPTION
4	10-27-22 Revision 4



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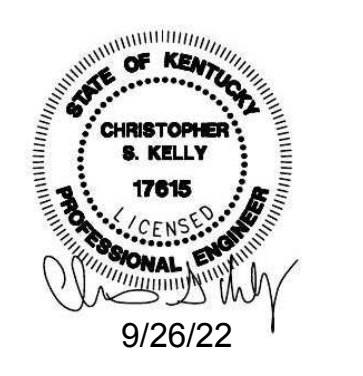
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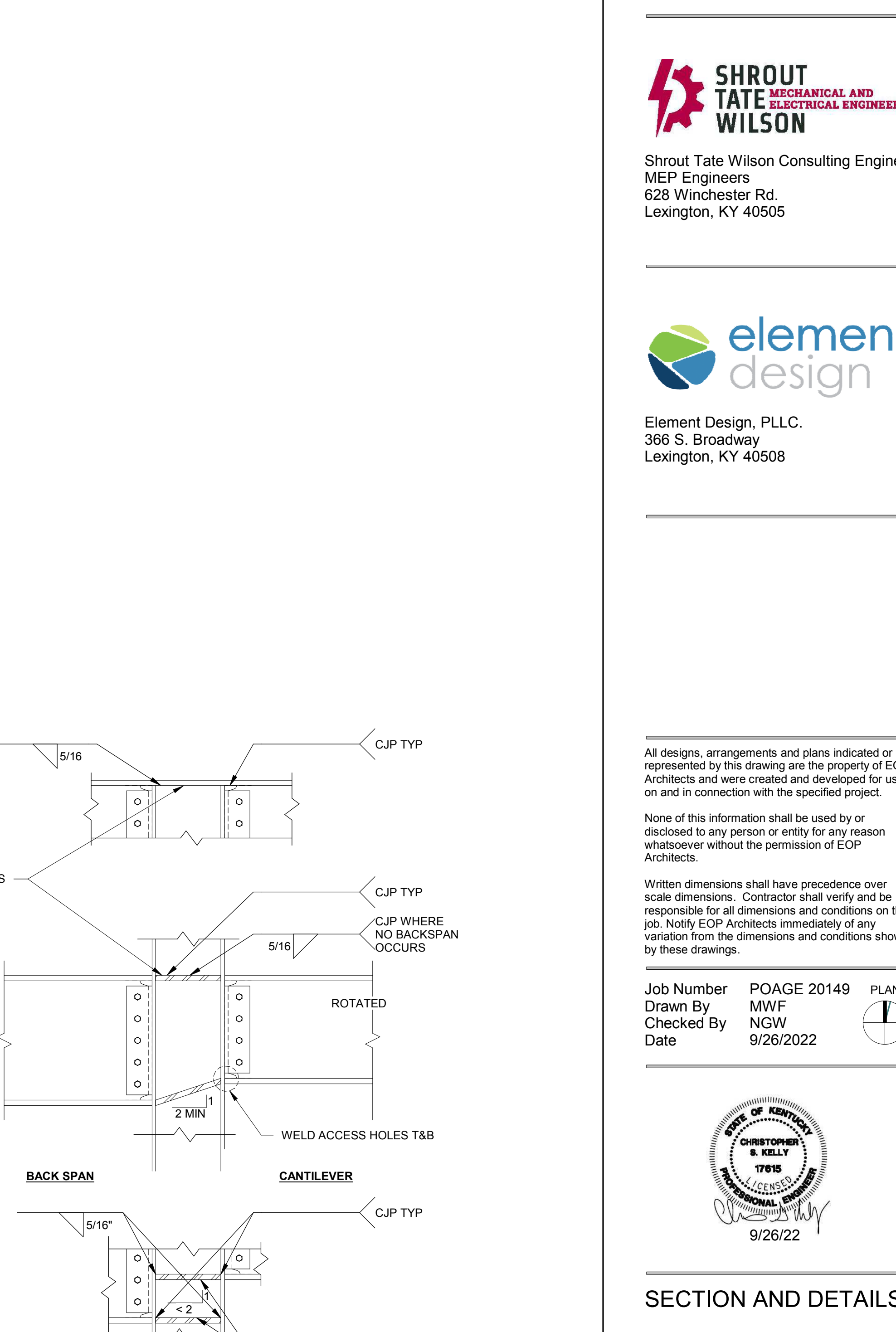
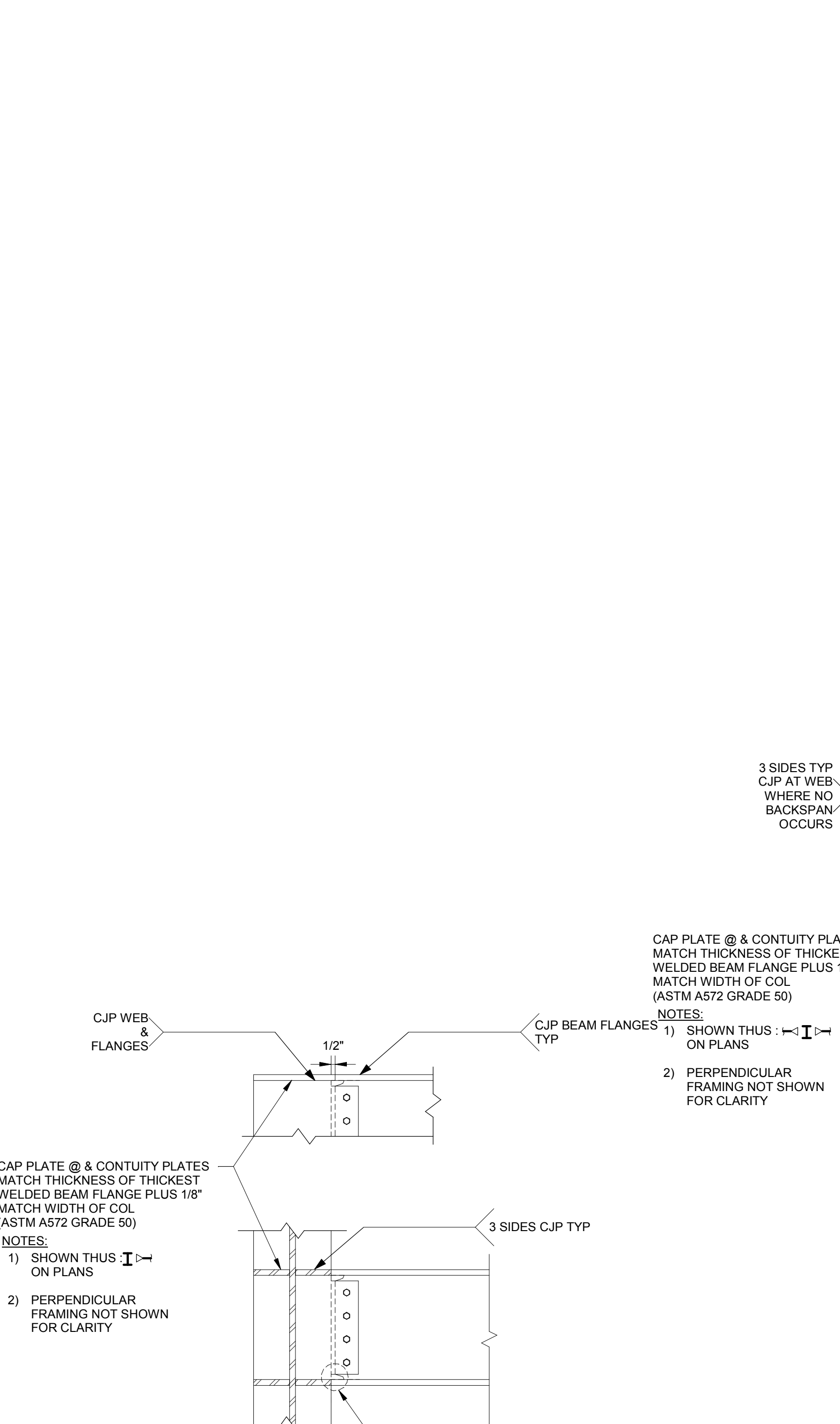
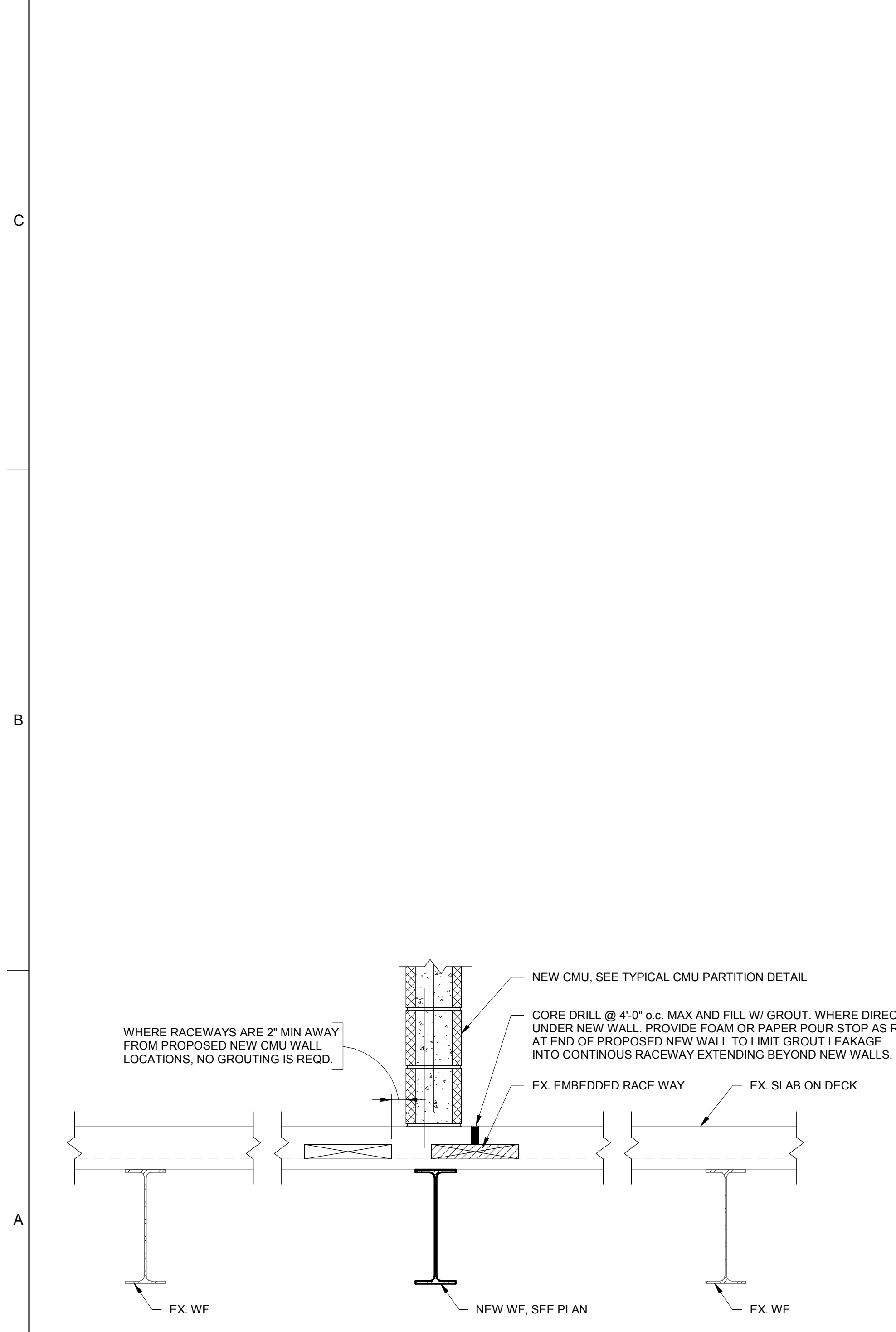
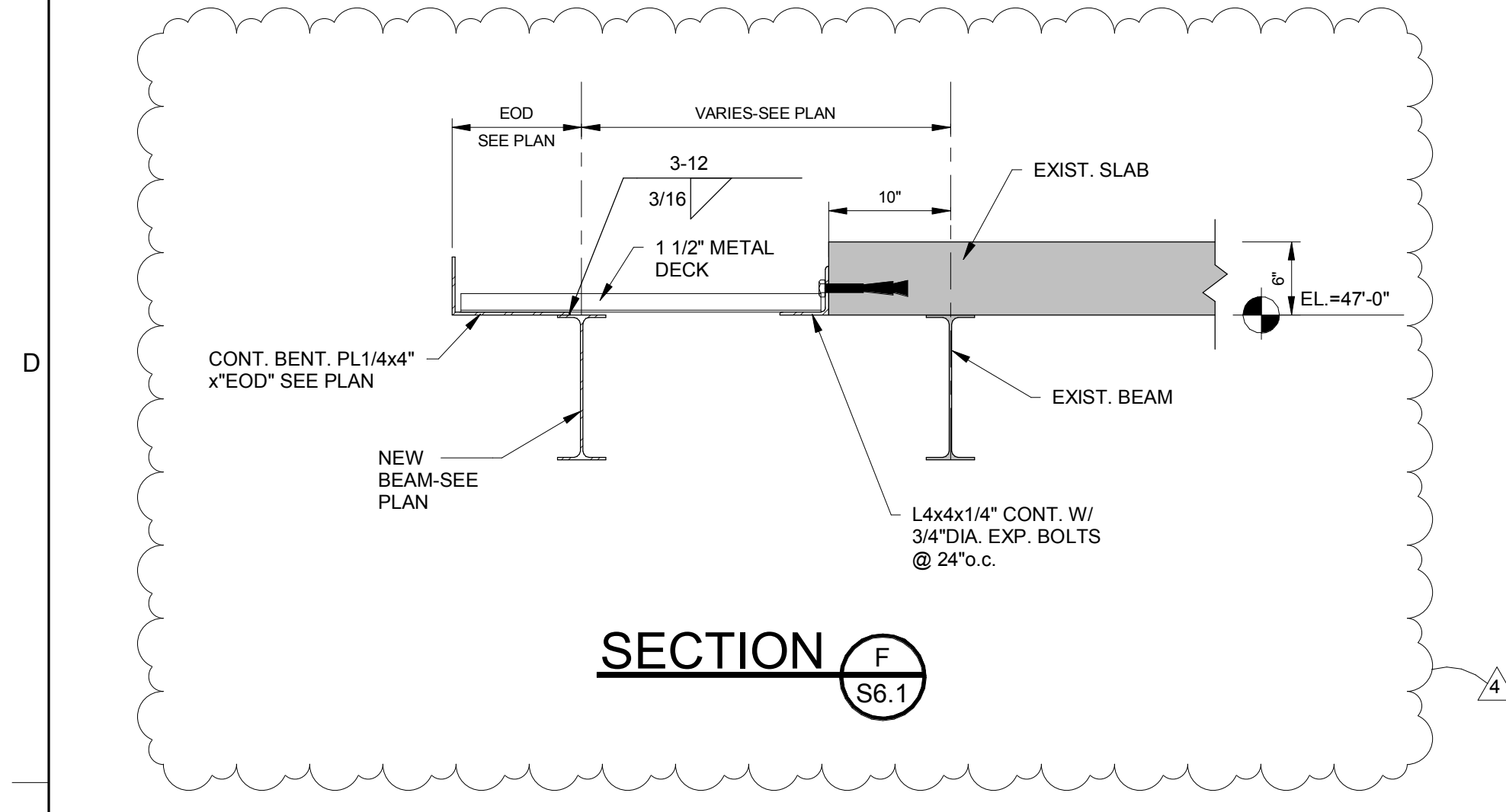
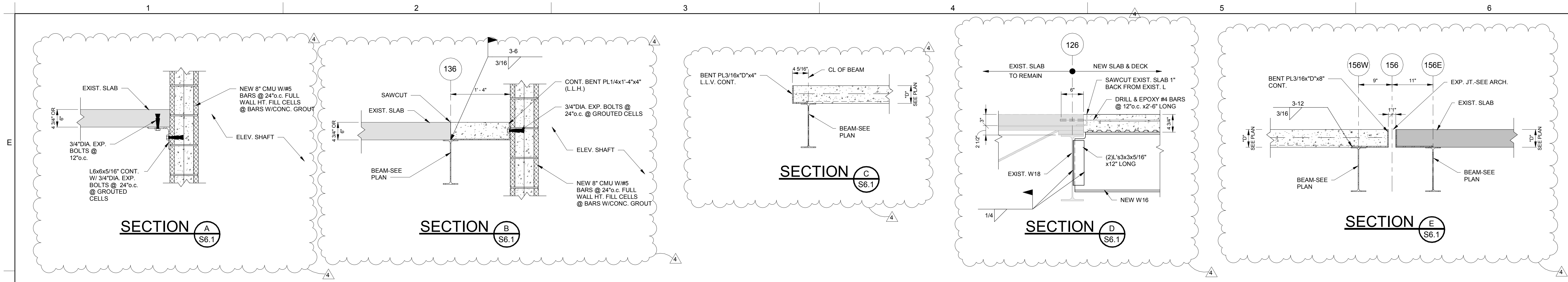
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Date 9/26/2022

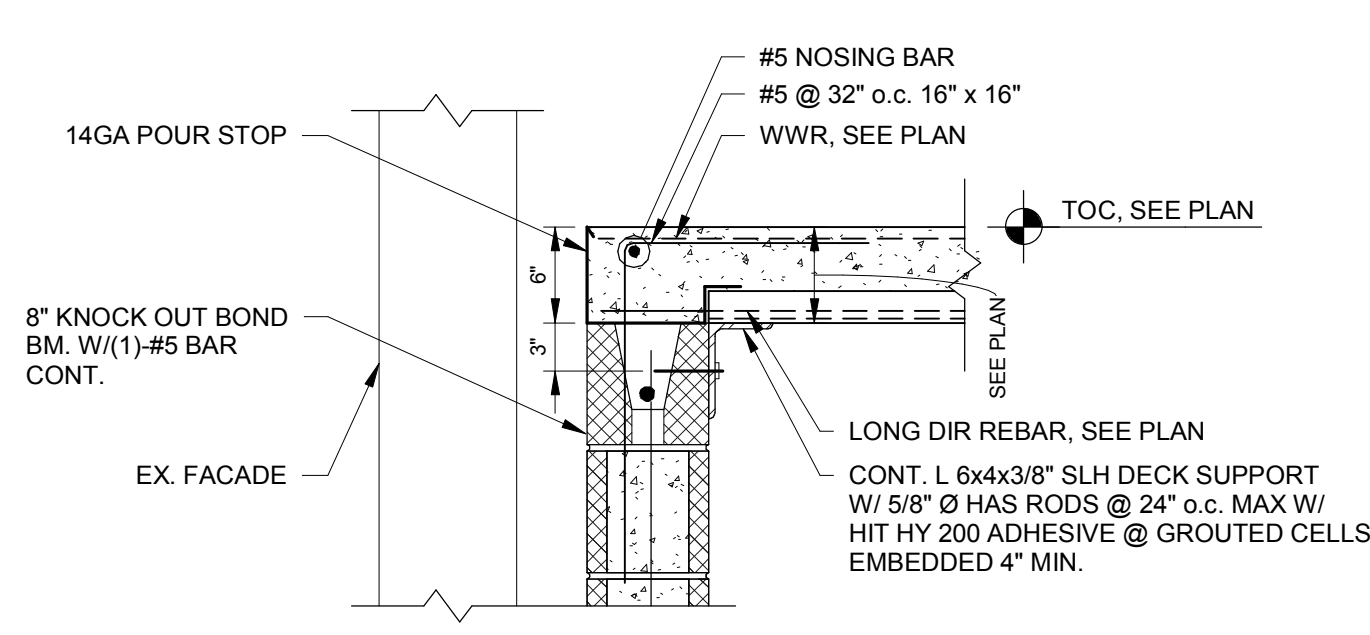
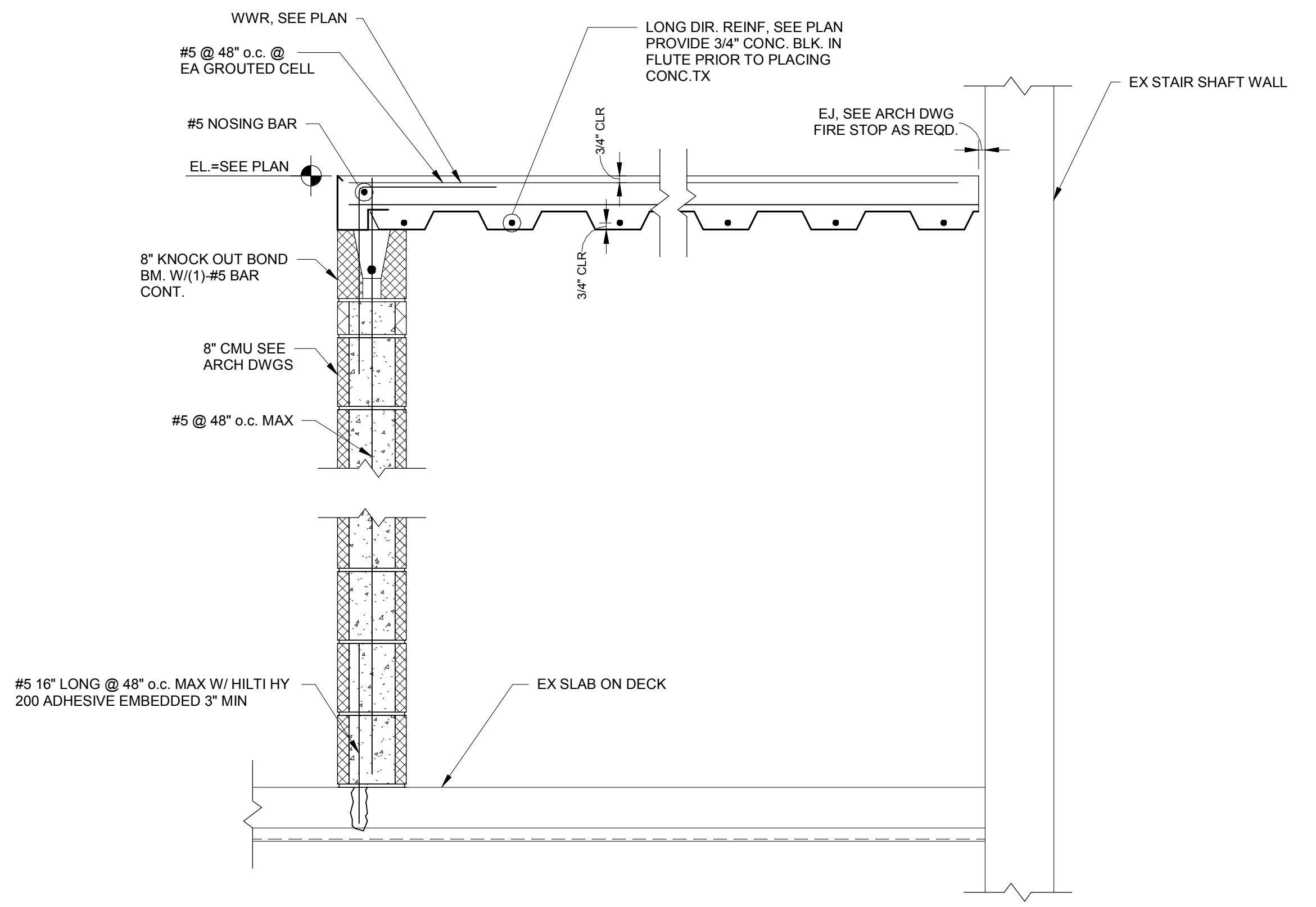
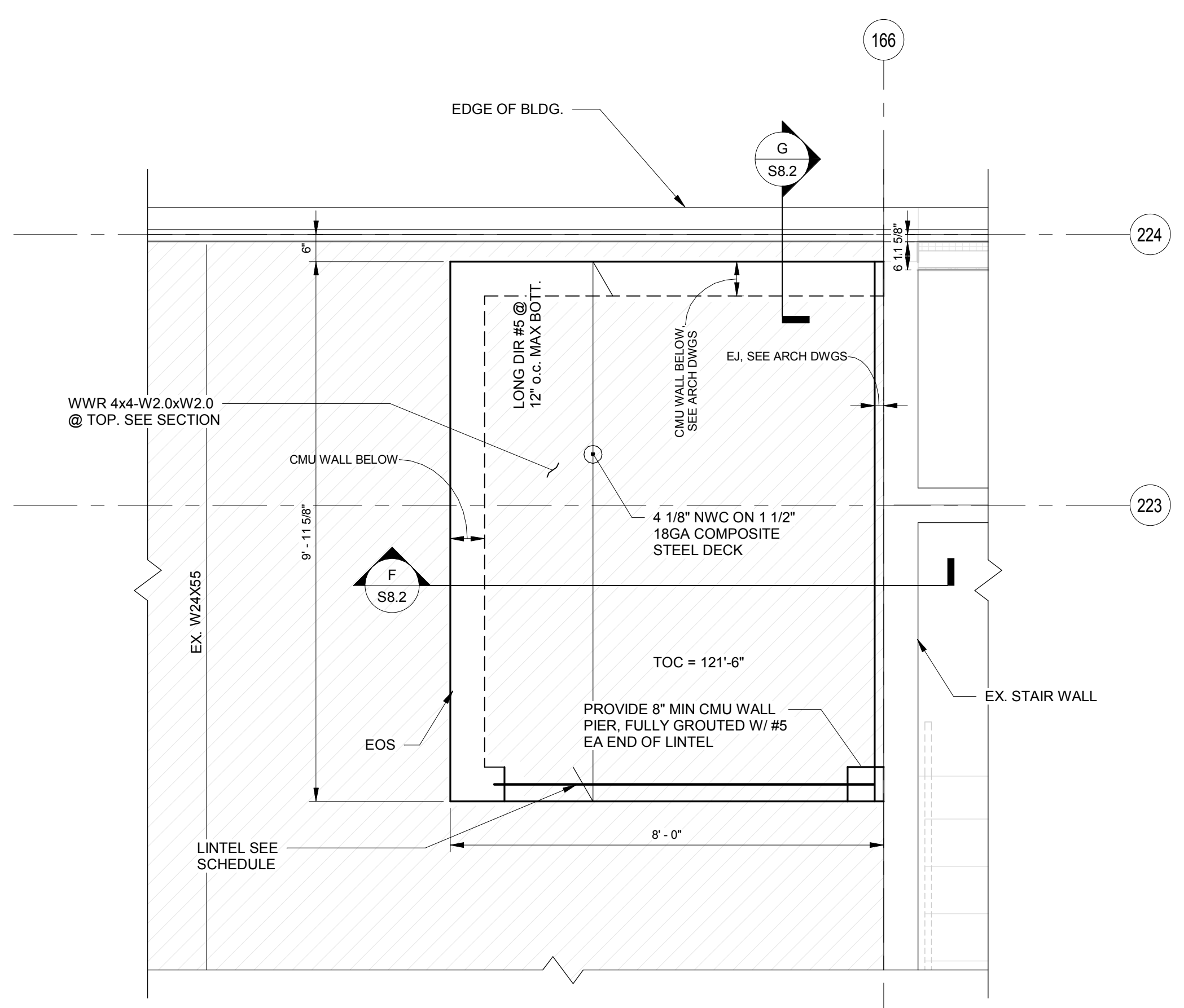
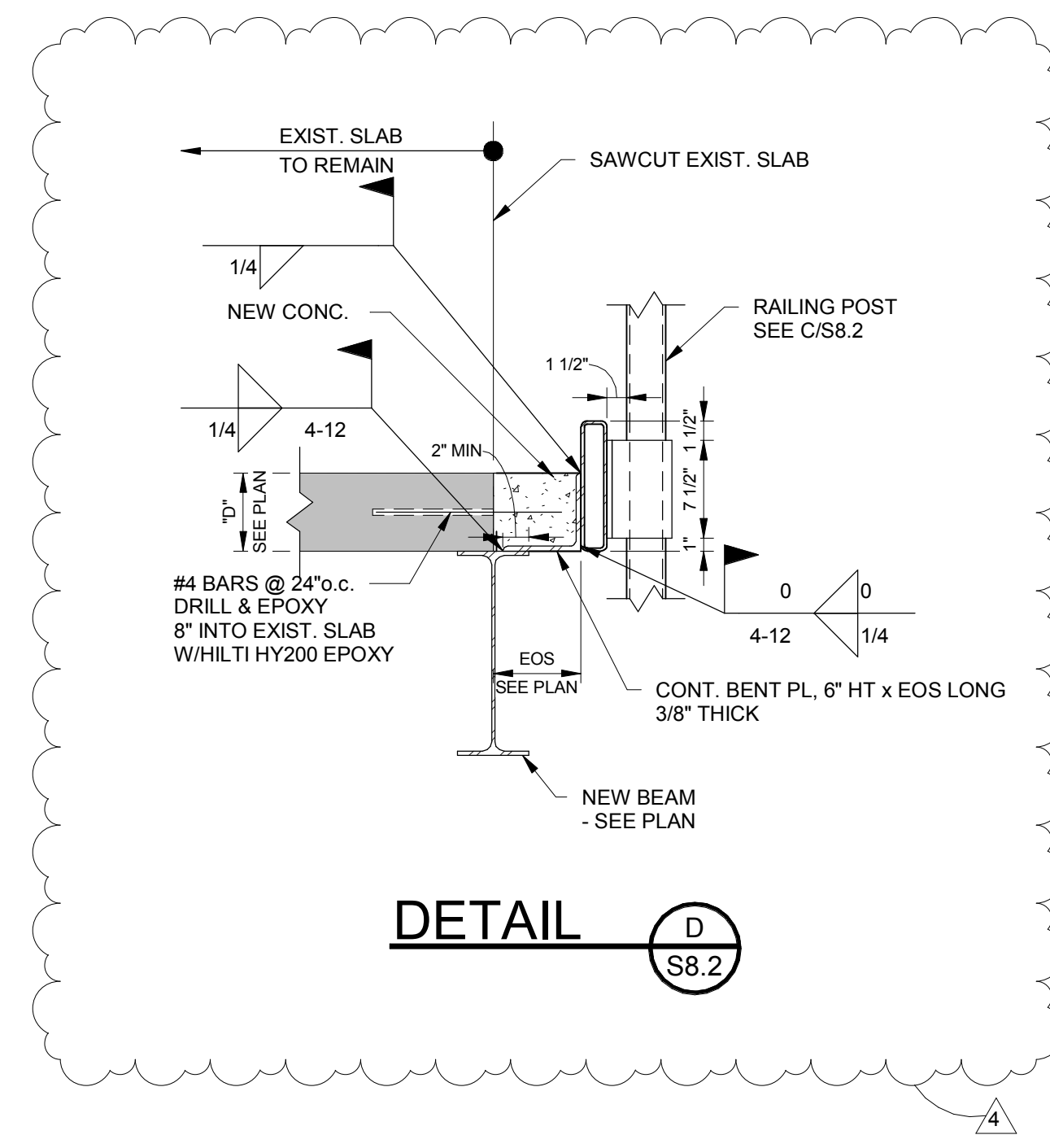
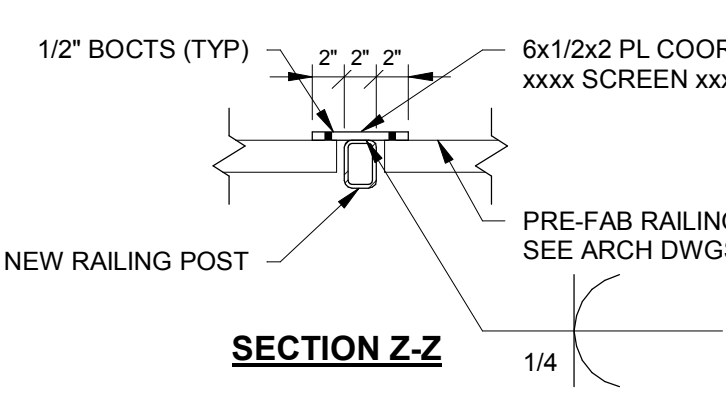
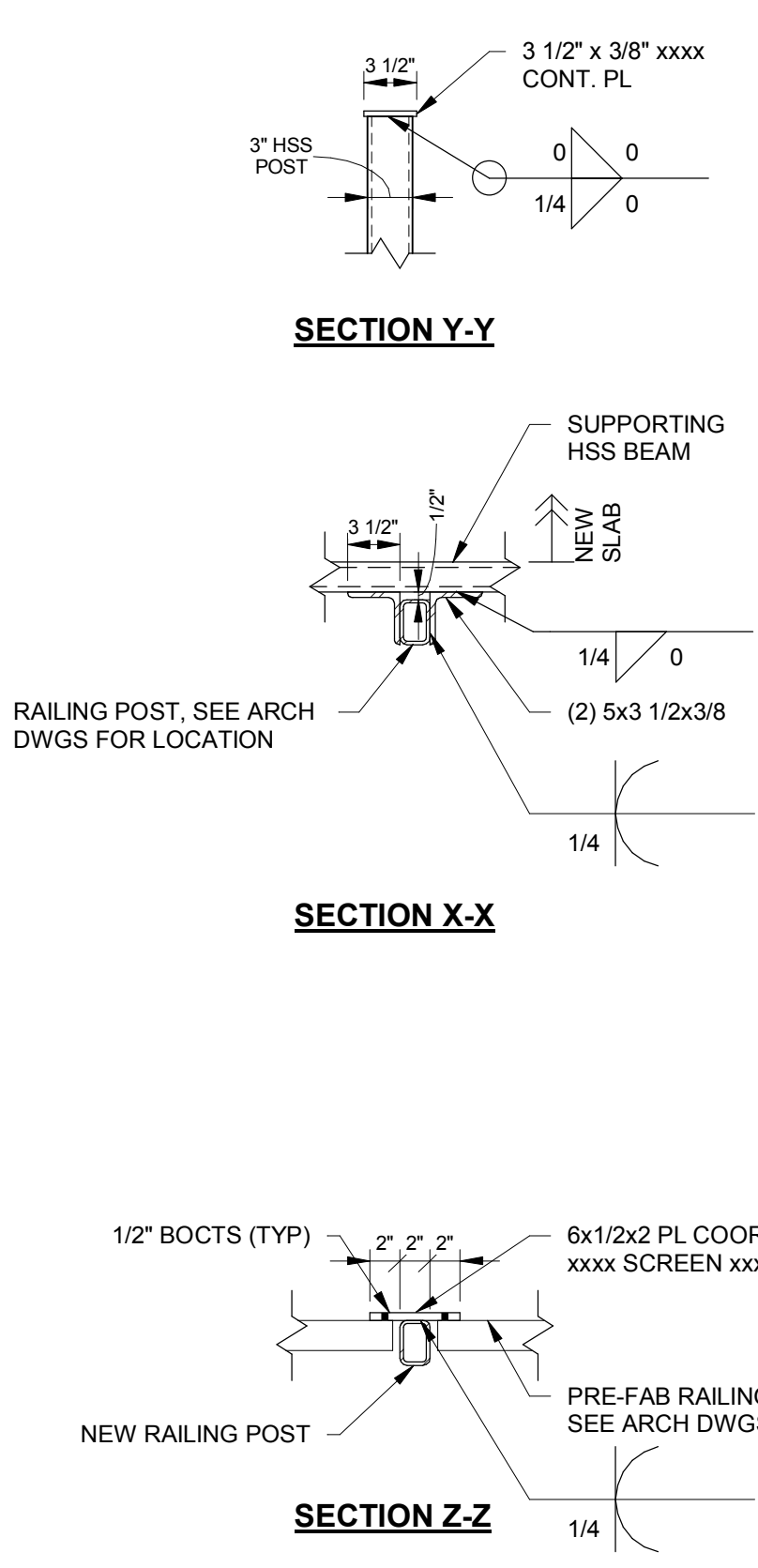
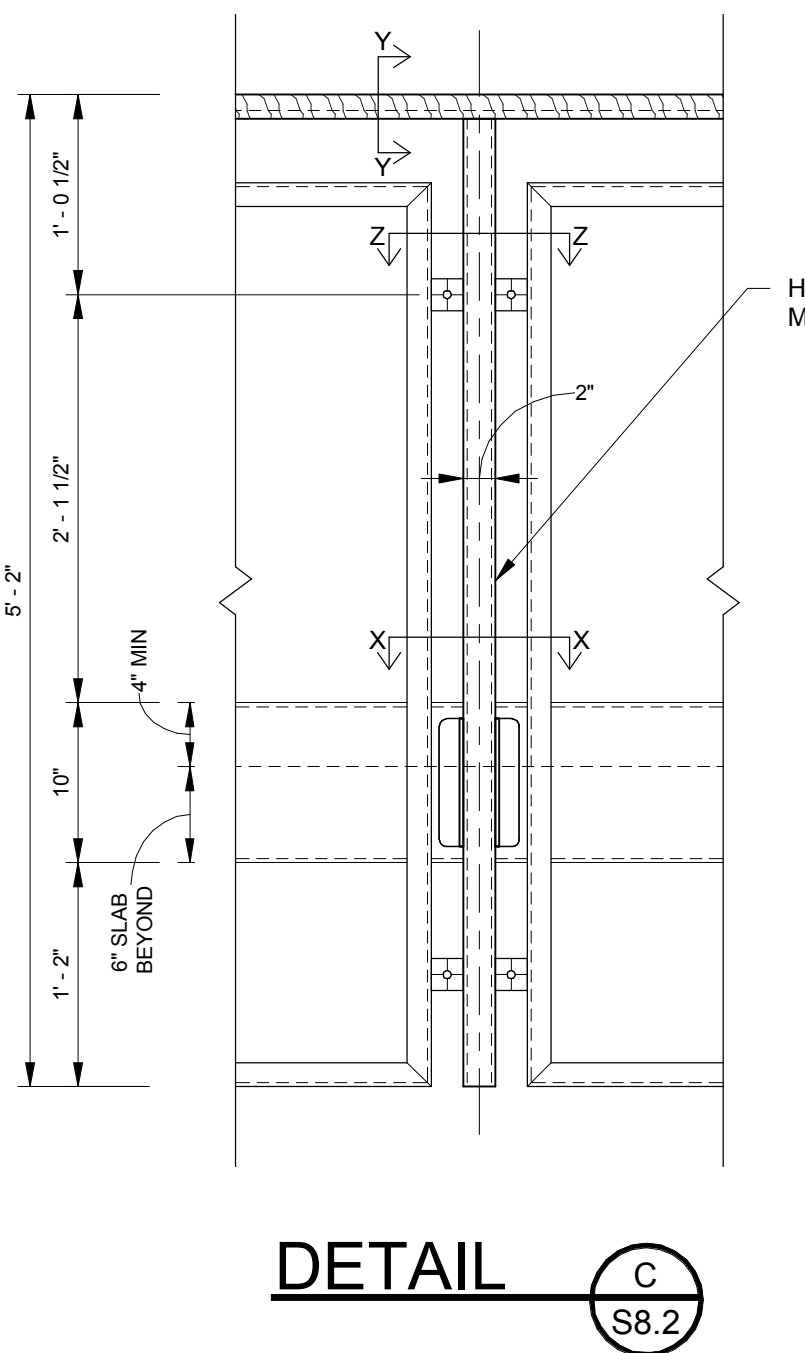
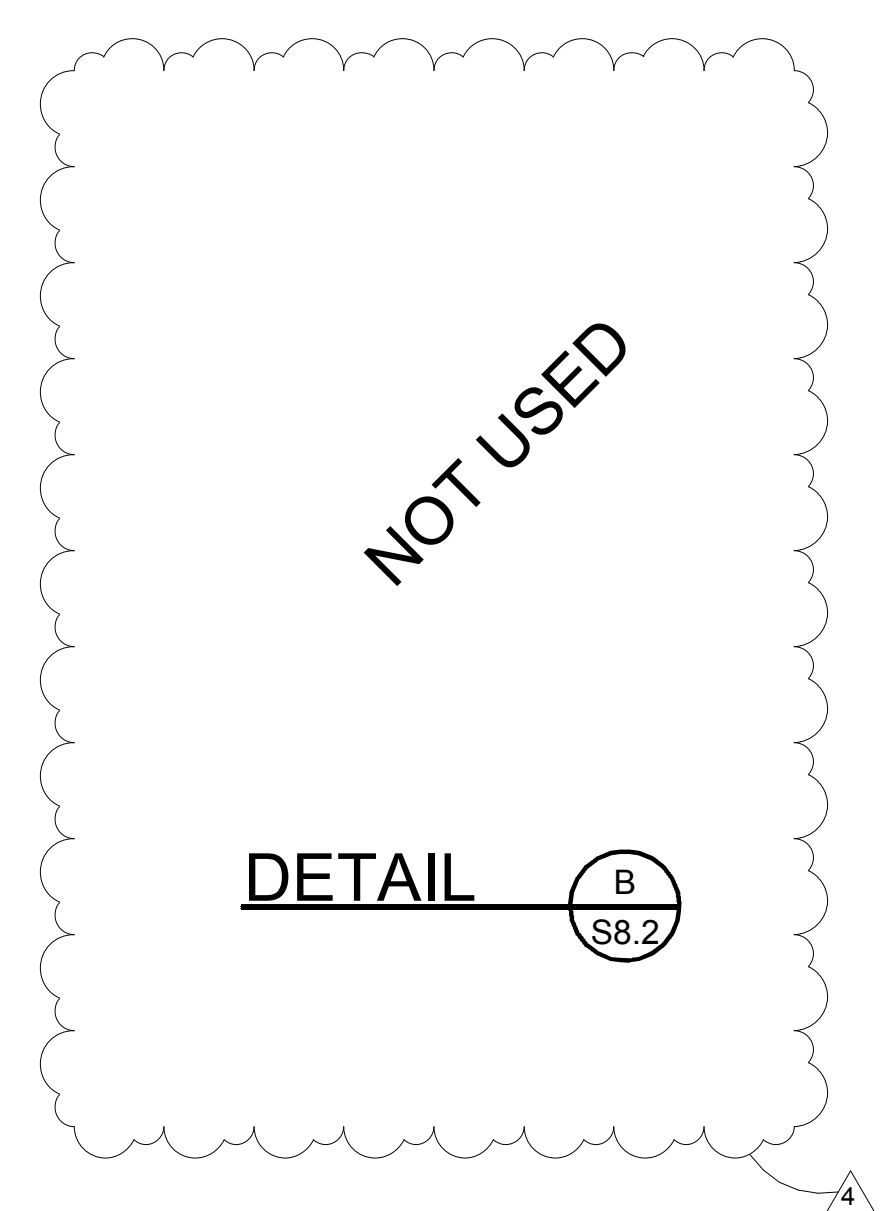
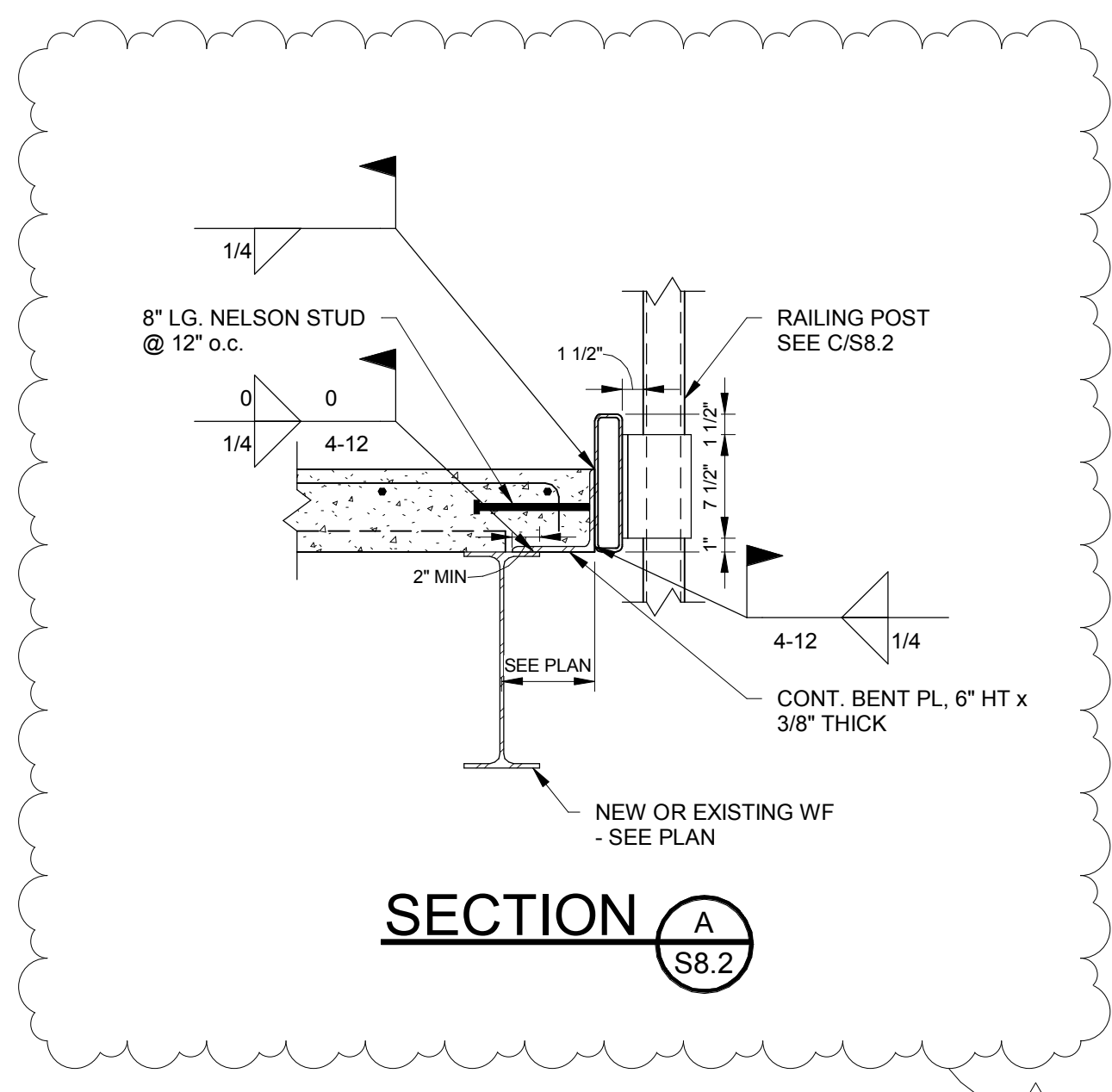


SECTION AND DETAILS

S6.1



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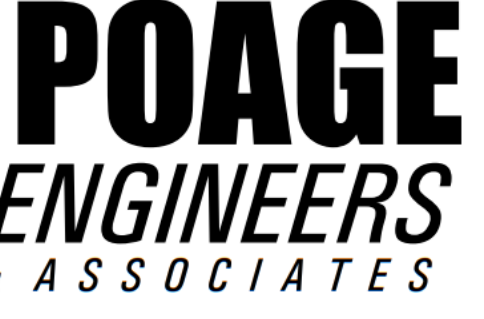
E
D
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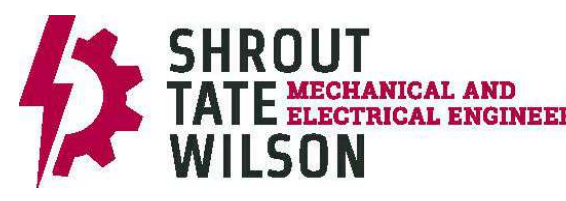
REVISIONS		
#	DATE	DESCRIPTION
4	10-27-22	Revision 4



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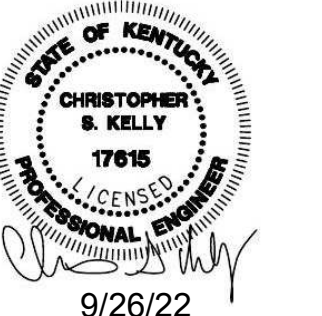
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Drawn By MJF TRUE
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SECTION AND DETAILS

S8.2

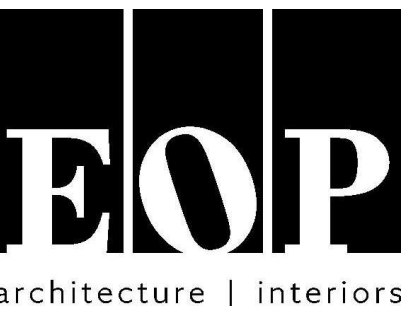
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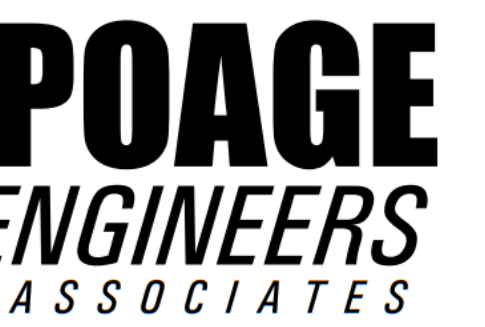
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REVISIONS	
#	DESCRIPTION
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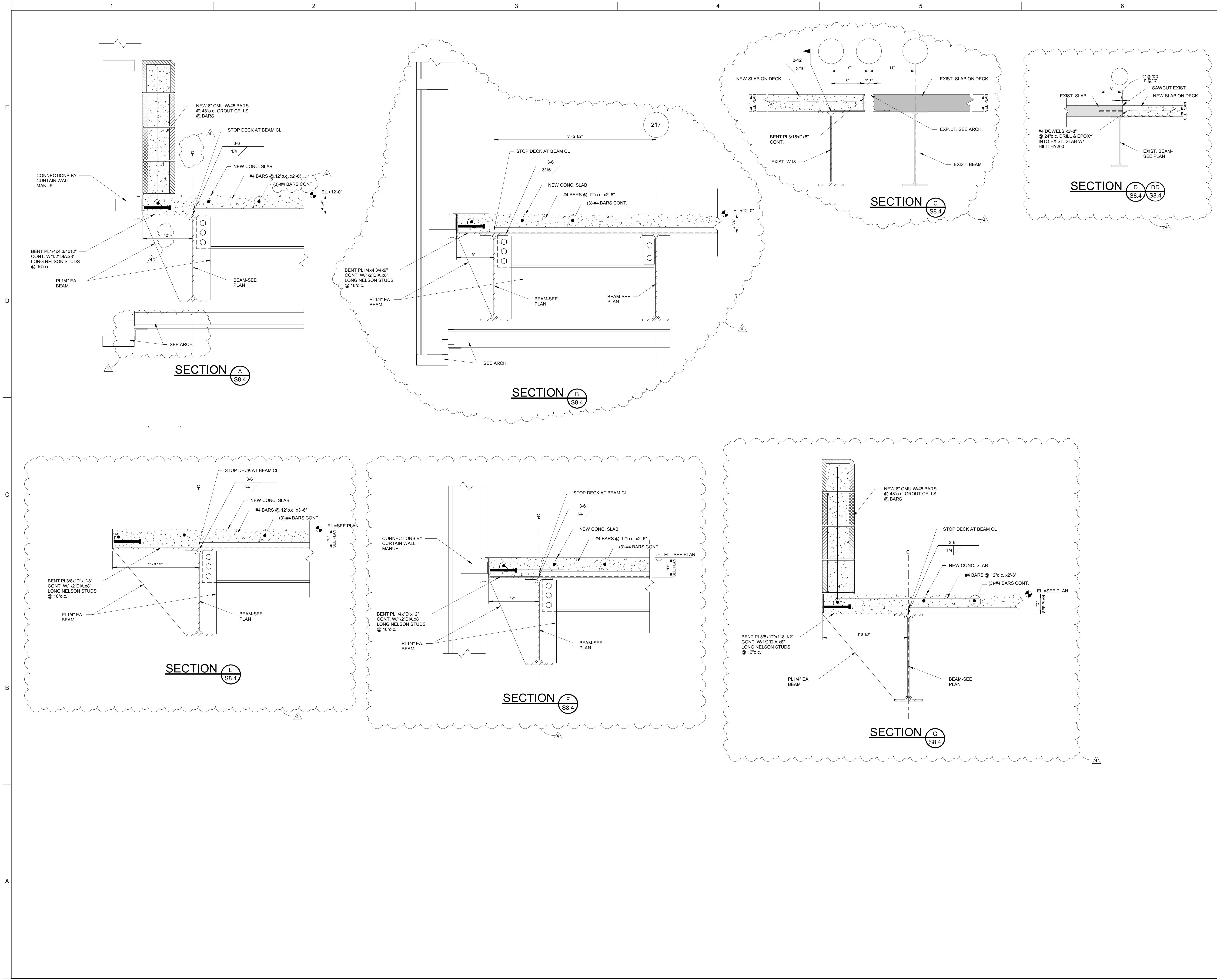
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SECTION AND DETAILS

S8.4



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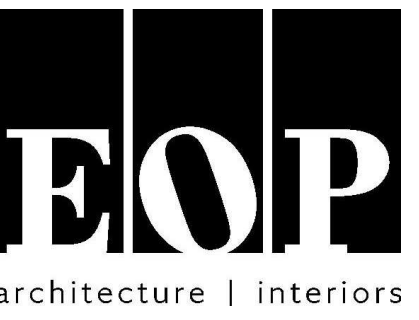
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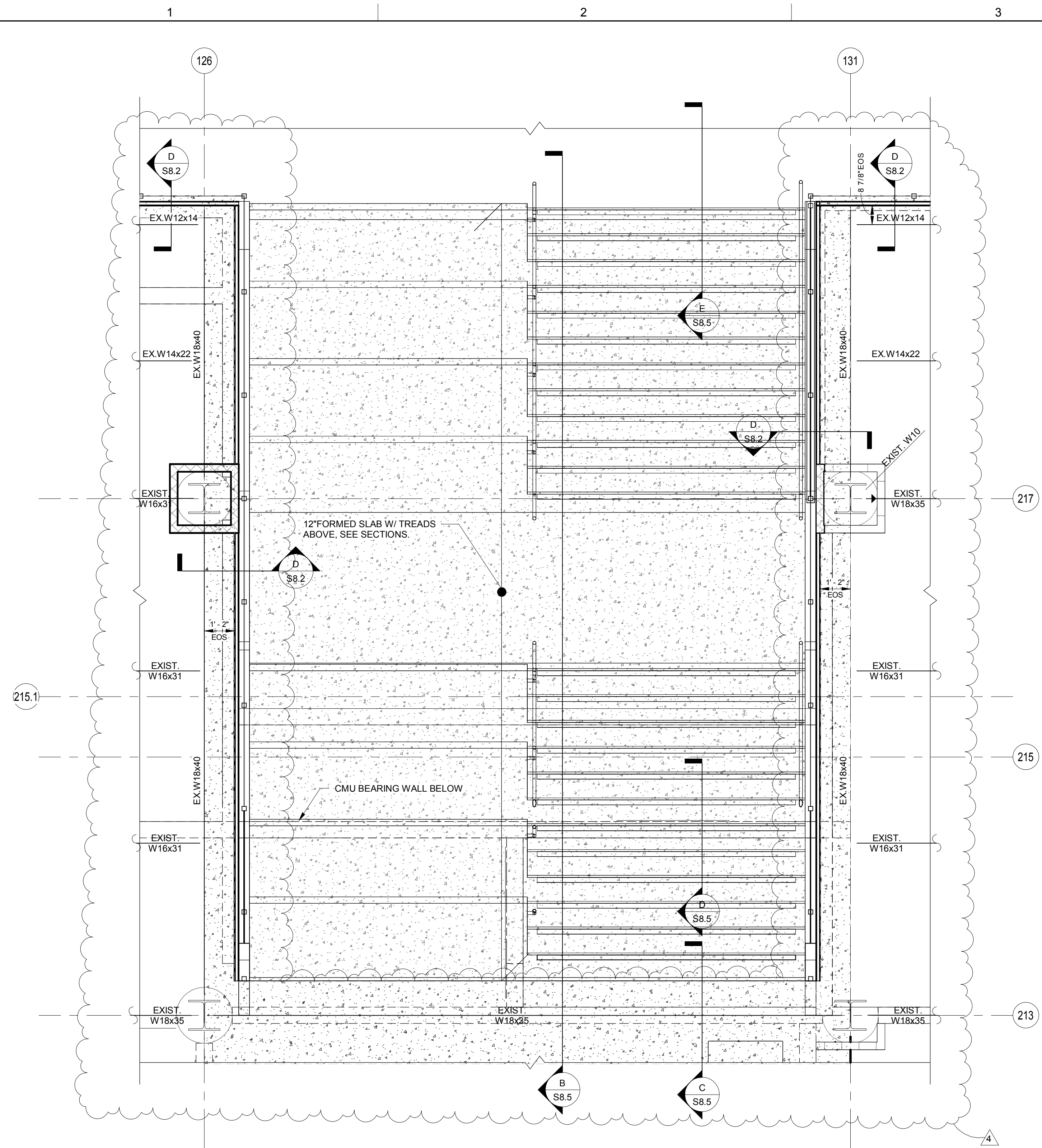
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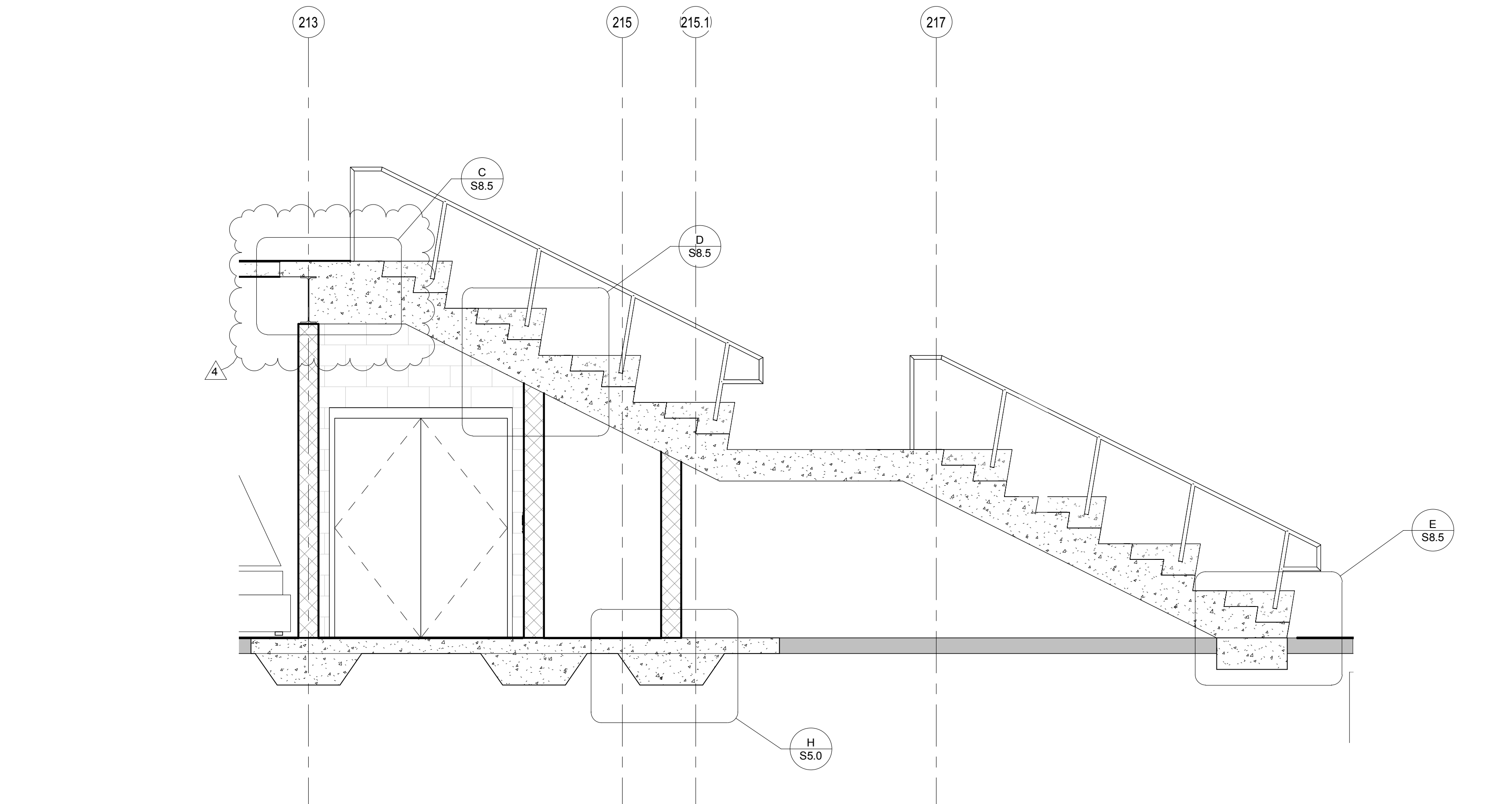
9/26/22

**SOCIAL STAIRS
SECTIONS AND
DETAILS**

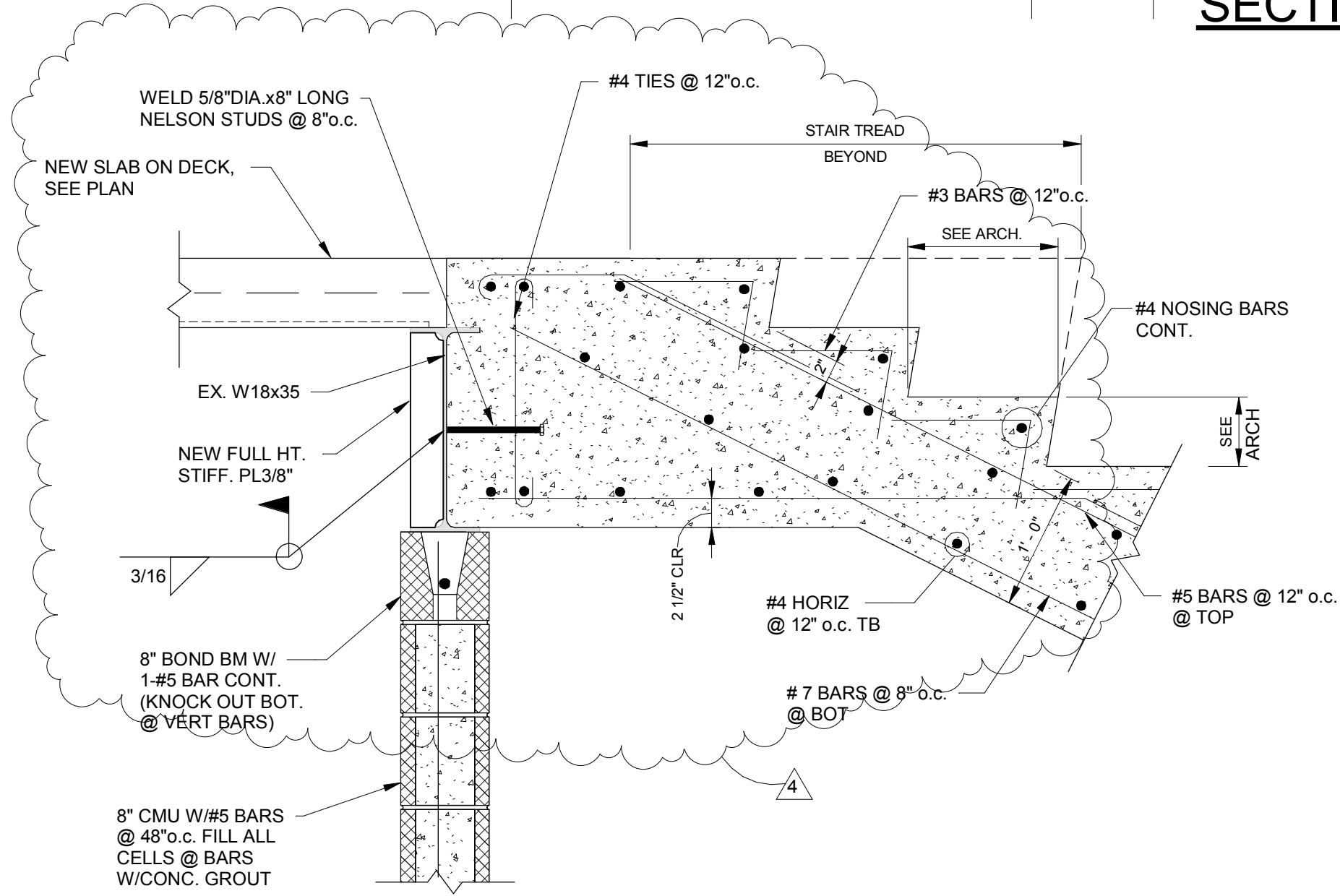
S8.5



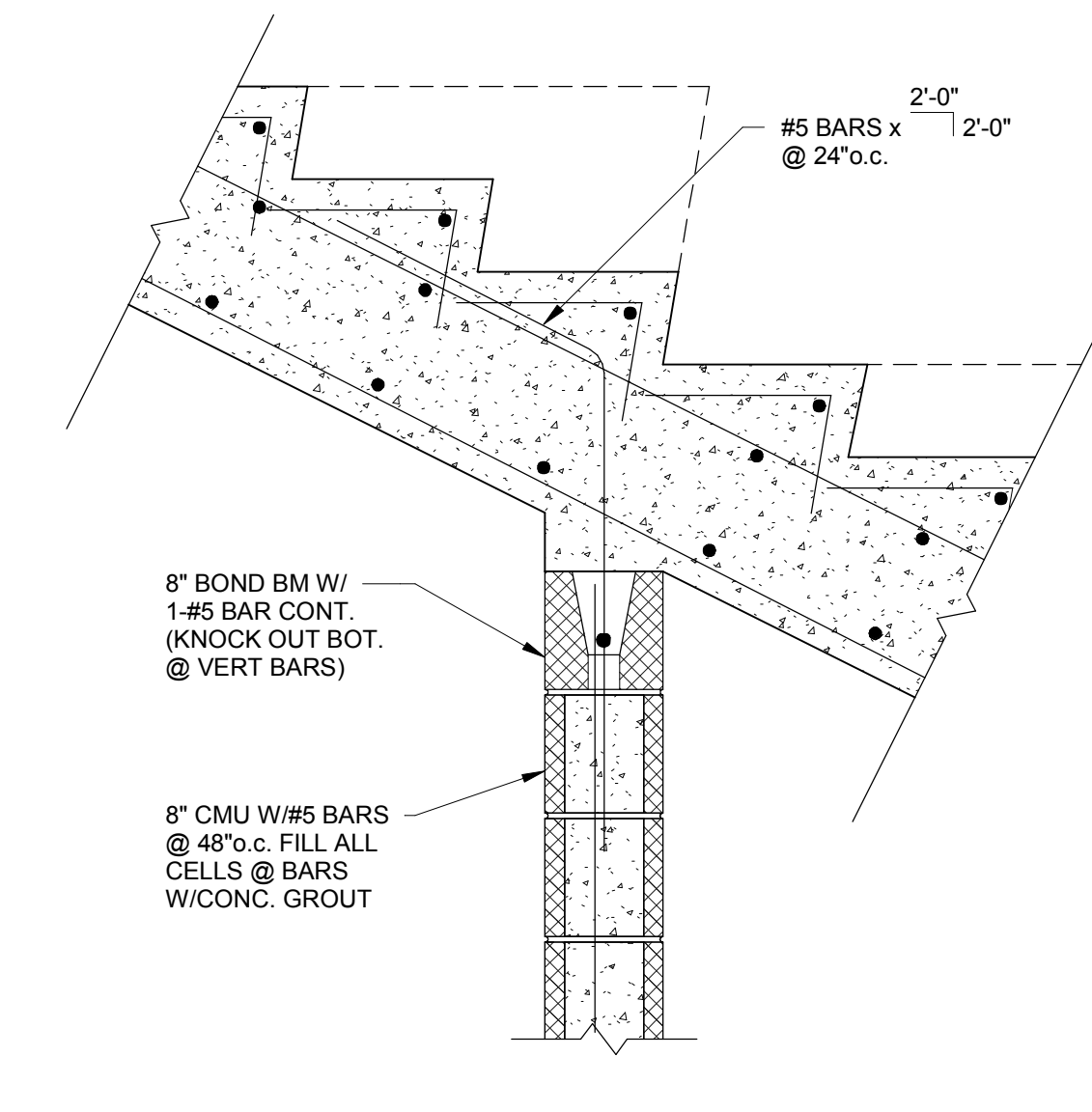
SOCIAL STAIR FRAMING PLAN (A) S8.5



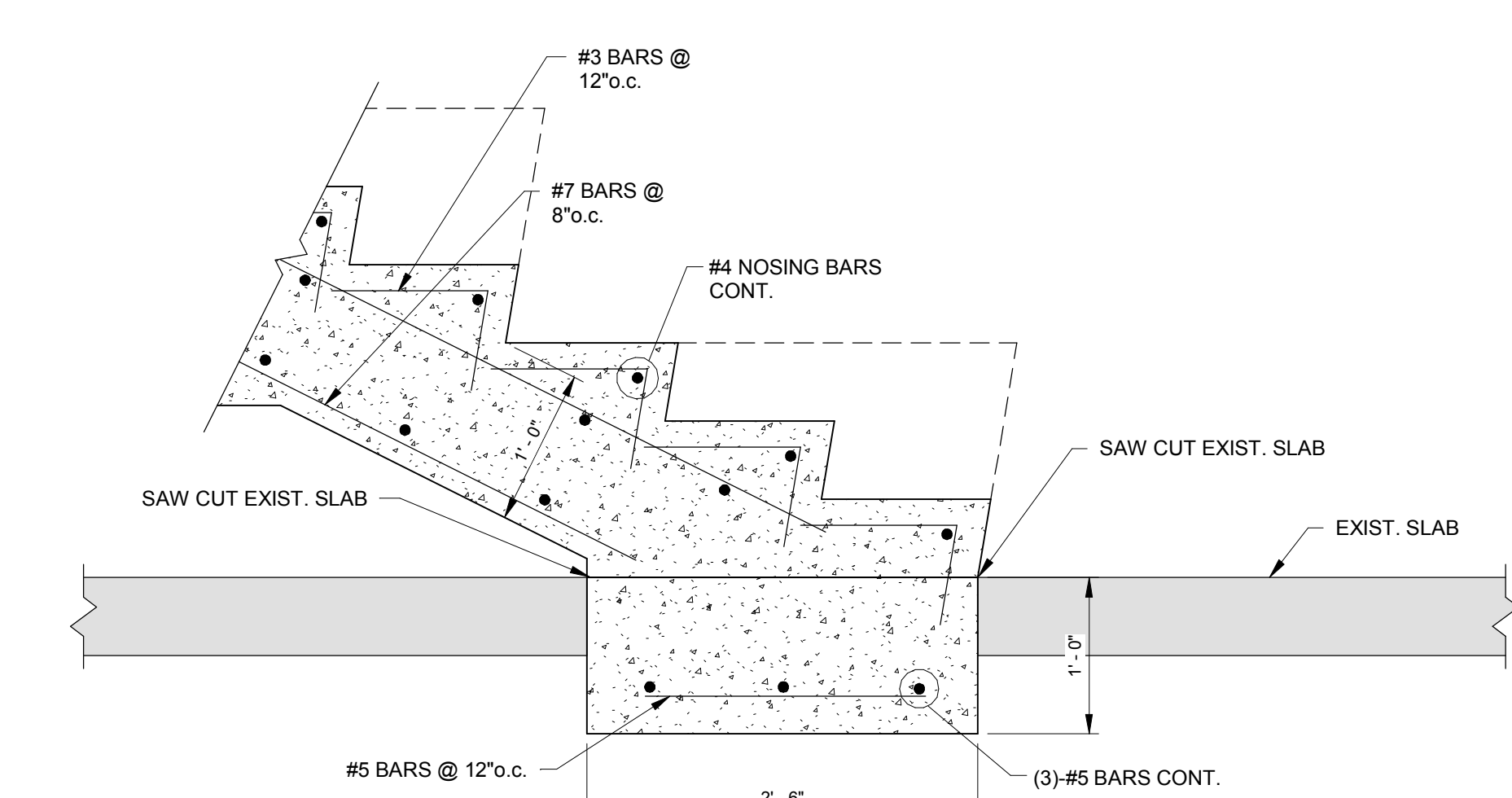
SECTION (B) S8.5



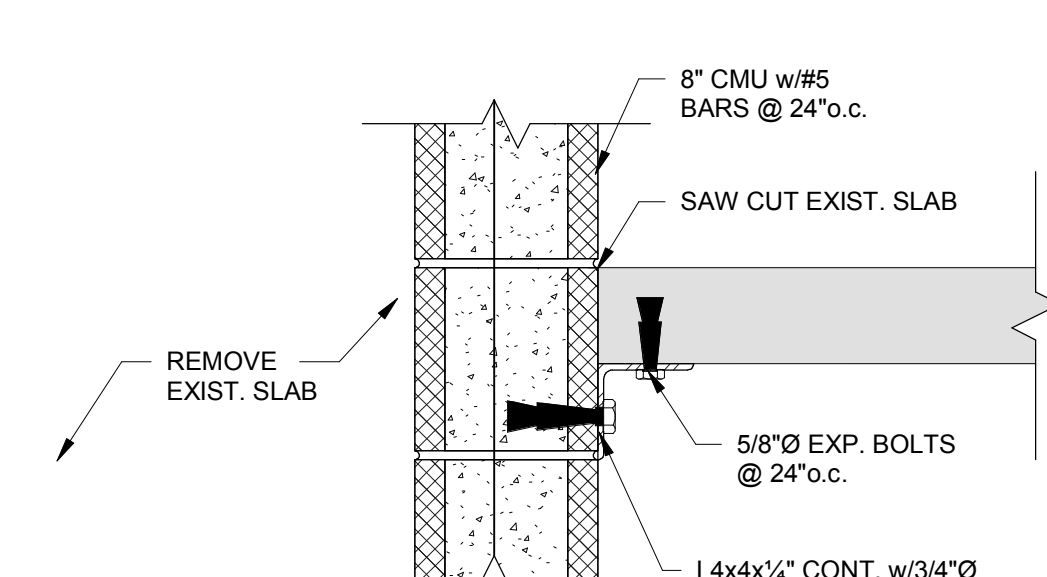
SECTION (C) S8.5



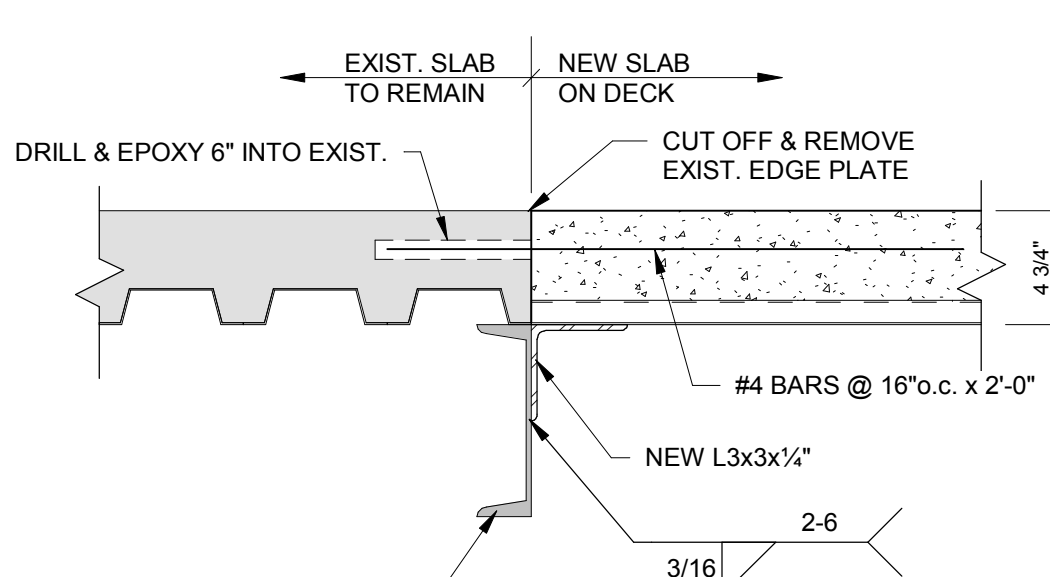
SECTION (D) S8.5



SECTION (E) S8.5



SECTION (F) S8.5



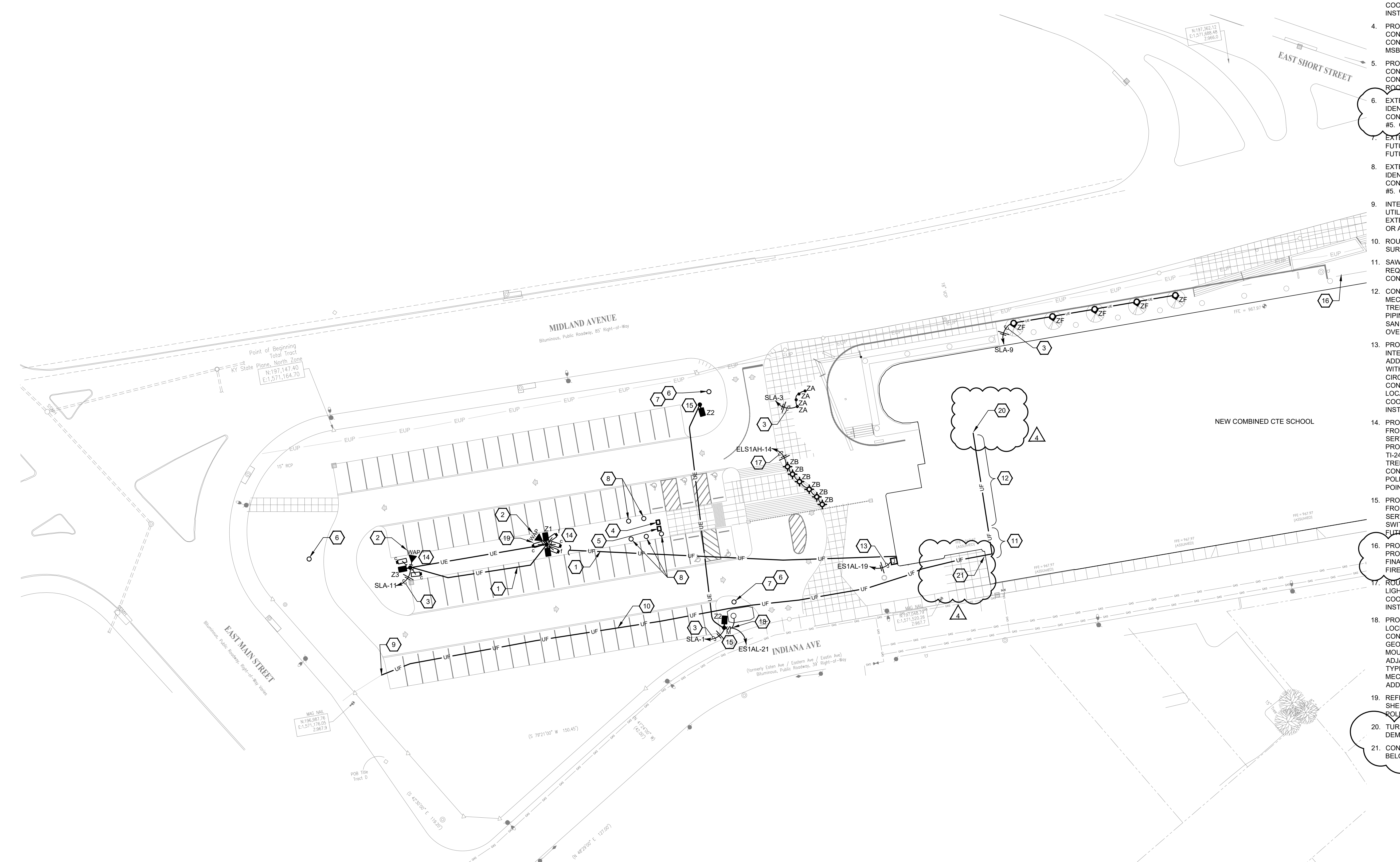
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GENERAL NOTES:

A. REFER TO SHEET E002 FOR ADDITIONAL GENERAL NOTES.

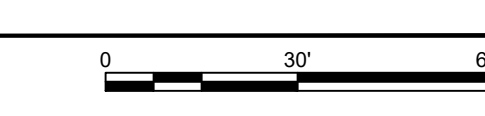
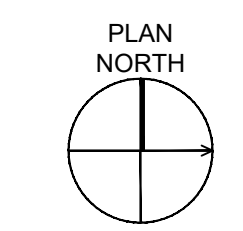
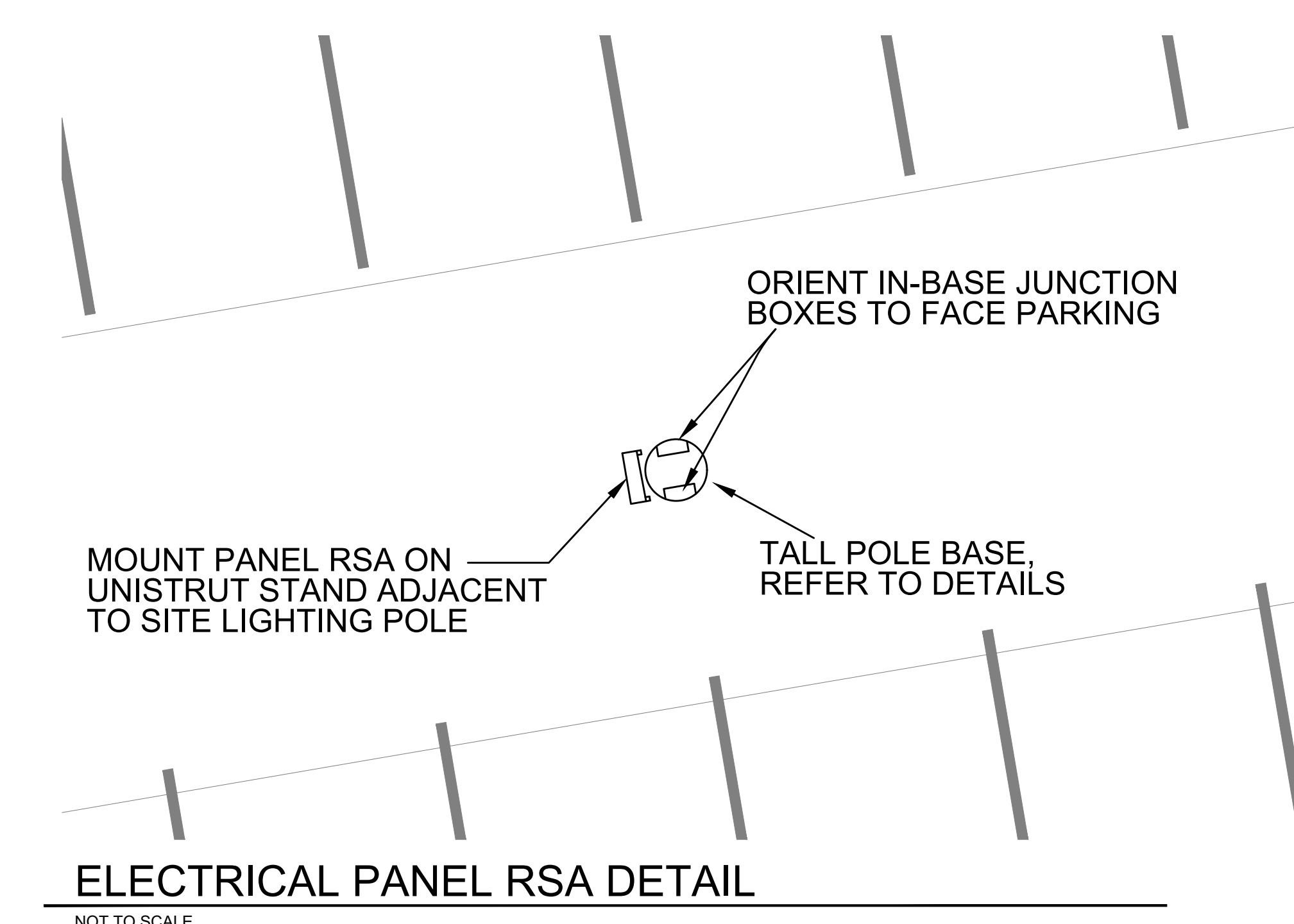
SHEET KEYNOTES:

1. PROVIDE A DEDICATED 8 STRAND MULTIMODE (UNUSED STRANDS TO BE SPARE) DIRECT BURIAL FIBER OPTIC CABLING IN 2" CONDUIT FROM BUILDING MDF/IDF TO EACH LIGHT POLE BASE NETWORK SWITCH. PROVIDE CATEGORY 6 CABLING FROM NETWORK SWITCH TO EACH PAGING HORN, WIRELESS ACCESS POINT, AND/OR CAMERA AS SHOWN.
2. PROVIDE EXTERIOR RATED WIRELESS ACCESS POINT ON LIGHT POLE.
3. ROUTE CIRCUIT THROUGH EXTERIOR LIGHTING CONTROL RELAY ADJACENT TO PANEL SLA. FIELD COORDINATE EXACT LOCATION OF RELAY PRIOR TO INSTALLATION.
4. PROVIDE HANDHOLE FOR FUTURE POWER CONNECTIVITY ON SITE. EXTEND FOUR(4) 3" CONDUITS FROM HANDHOLE TO MAIN SWITCHBOARD MSB2BZ.
5. PROVIDE HANDHOLE FOR FUTURE SYSTEMS CONNECTIVITY ON SITE. EXTEND TWO (2) 4" CONDUITS FROM HANDHOLE TO THE CABLE TRAY IN ROOM MDF.
6. EXTEND ONE(1) 2" CONDUIT TO HANDHOLE IDENTIFIED BY SHEET NOTE #4 AND ONE(1) 2" CONDUIT TO HANDHOLE IDENTIFIED BY SHEET NOTE #5. CAP CONDUITS BELOW GRADE FOR FUTURE USE.
7. EXTEND ONE(1) 1-1/4" CONDUIT TO PANEL RSA FOR FUTURE USE. CAP CONDUIT BELOW GRADE FOR FUTURE USE.
8. EXTEND ONE(1) 1-1/4" CONDUIT TO HANDHOLE IDENTIFIED BY SHEET NOTE #4 AND ONE(1) 1-1/4" CONDUIT TO HANDHOLE IDENTIFIED BY SHEET NOTE #5. CAP CONDUITS BELOW GRADE FOR FUTURE USE.
9. INTERCEPT EXISTING TWO(2) 4" CONDUITS SERVING UTILITY FIBER CONNECTION TO BUILDING AND EXTEND TWO(2) NEW CONDUITS TO MDF. DEMOLISH OR ABANDON EXISTING CONDUITS AS NECESSARY.
10. ROUTE CONDUITS FOR FIBER UTILITY BELOW PAVED SURFACE.
11. SAWCUT, TRENCH, AND PATCH EXISTING FLOOR AS REQUIRED TO FACILITATE INSTALLATION OF CONDUITS SERVING FIBER.
12. CONTRACTOR MAY COORDINATE WITH MECHANICAL/PLUMBING CONTRACTOR AND SHARE TRENCHING PATH UTILIZED BY NEW SANITARY PIPING. FIBER CONDUITS SHALL BE LOCATED ABOVE SANITARY PIPING AND TO ONE SIDE (NOT DIRECTLY OVER TOP) THE SANITARY PIPING.
13. PROVIDE HARD WIRED CONNECTION FOR INTERNALLY ILLUMINATED LED SIGNAGE (BUILDING ADDRESS, UP HIGH) COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. ROUTE CIRCUIT THROUGH DEDICATED EXTERIOR LIGHTING CONTROL RELAY AND EMERGENCY BYPASS RELAY LOCATE RELAY(S) ADJACENT TO PANEL ESTAL. FIELD COORDINATE EXACT LOCATION PRIOR TO INSTALLATION.
14. PROVIDE DEDICATED 120 VOLT CIRCUIT (3#10, 3/4" C) FROM PANEL RSA TO POLE BASE JUNCTION BOX TO SERVE POWER SUPPLY FOR NETWORK SWITCH. PROVIDE 240 WATT POWER SUPPLY, TRENDNET T1-24048, AND 10 PORT NETWORK SWITCH. TRENDNET T1-PG102, FOR CONVERSION OF FIBER CONNECTION TO CATEGORY 6 CABLING TO SERVE POLE MOUNTED CAMERAS, WIRELESS ACCESS POINTS, AND/OR PAGING HORNS.
15. PROVIDE DEDICATED 120 VOLT CIRCUIT (3#10, 3/4" C) FROM PANEL RSA TO POLE BASE JUNCTION BOX TO SERVE FUTURE POWER SUPPLY FOR NETWORK SWITCH. CAP CIRCUIT IN JUNCTION BOX FOR FUTURE USE.
16. PROVIDE FIRE ALARM CONNECTION TO FIRE PROTECTION POST INDICATOR VALVE. COORDINATE FINAL LOCATION OF POST INDICATOR VALVE WITH FIRE PROTECTION CONTRACTOR.
17. ROUTE CIRCUIT THROUGH EXTERIOR EMERGENCY LIGHTING RELAY ADJACENT TO PANEL ELS1AH. FIELD COORDINATE EXACT LOCATION OF RELAY PRIOR TO INSTALLATION.
18. PROVIDE A 20A MANUAL MOTOR STARTER IN A LOCKABLE NEMA 3R ENCLOSURE AND HARD WIRE CONNECTION TO SUMP PUMP IN ADJACENT GEOTHERMAL VAULT. CIRCUIT TO BE 2#4, #86, IN 1". MOUNT DISCONNECT ON UNISTRUT FRAME ADJACENT TO SITE LIGHTING POLE BASE. REFER TO TYPICAL GEOTHERMAL VAULT DETAIL ON MECHANICAL DRAWINGS, SHEET U100, FOR ADDITIONAL INFORMATION.
19. REFER TO ELECTRICAL PANEL RSA DETAIL ON THIS SHEET FOR ADDITIONAL REQUIREMENTS AT THIS LOCATION.
20. TURN CONDUIT AND FIBER UP INTO MDF AT DEMARCATION POINT.
21. CONDUITS SHALL ENTER BUILDING CONCEALED BELOW GRADE.



PARTIAL SITE PLAN - ELECTRICAL

SCALE: 1"=30'-0"

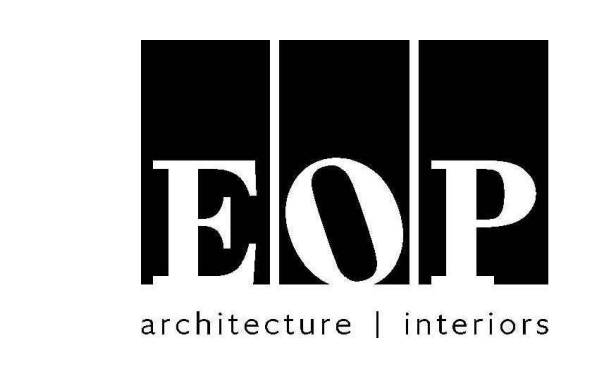


NEW COMBINED CTE SCHOOL
BG# 22-167

100 Midland Ave,
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BID DOCUMENTS

REVISIONS	
#	DESCRIPTION
1	10/14/22 ADDENDUM 1
3	10/21/22 ADDENDUM 3
4	10/28/22 ADDENDUM 4



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Drawn By JHS
Checked By RDB
Date 09/28/2022

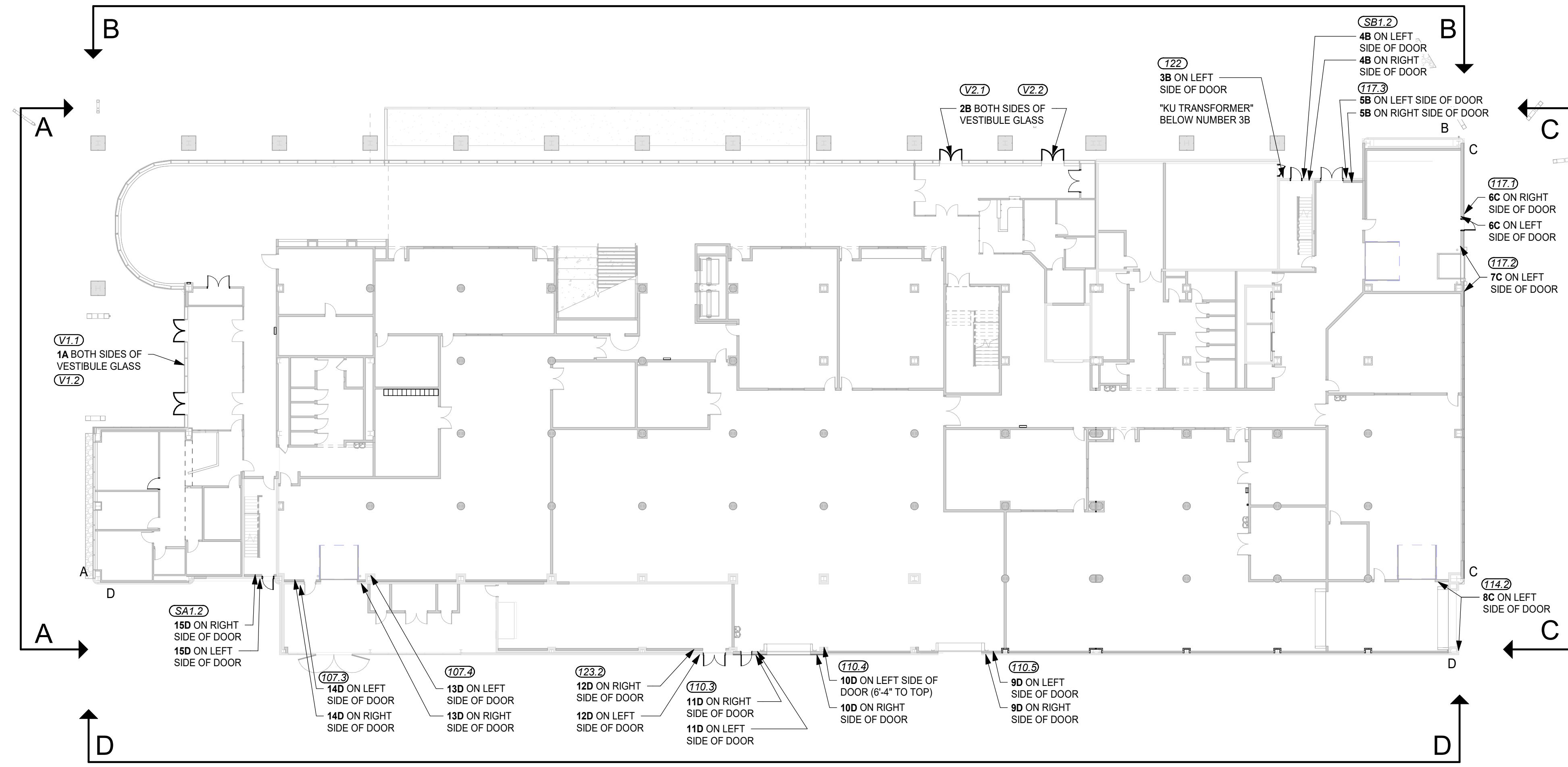


PARTIAL SITE PLAN - ELECTRICAL

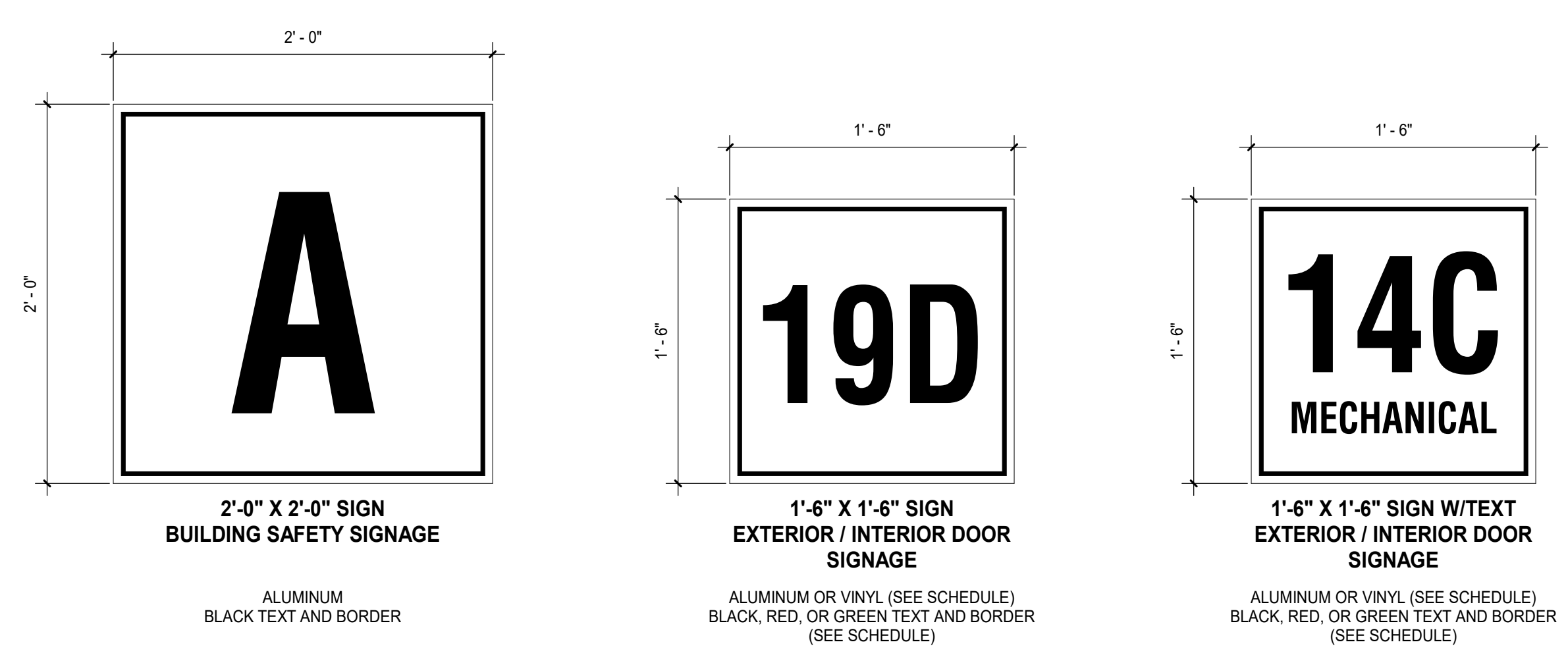
ADD #4
10/28/2022

U201

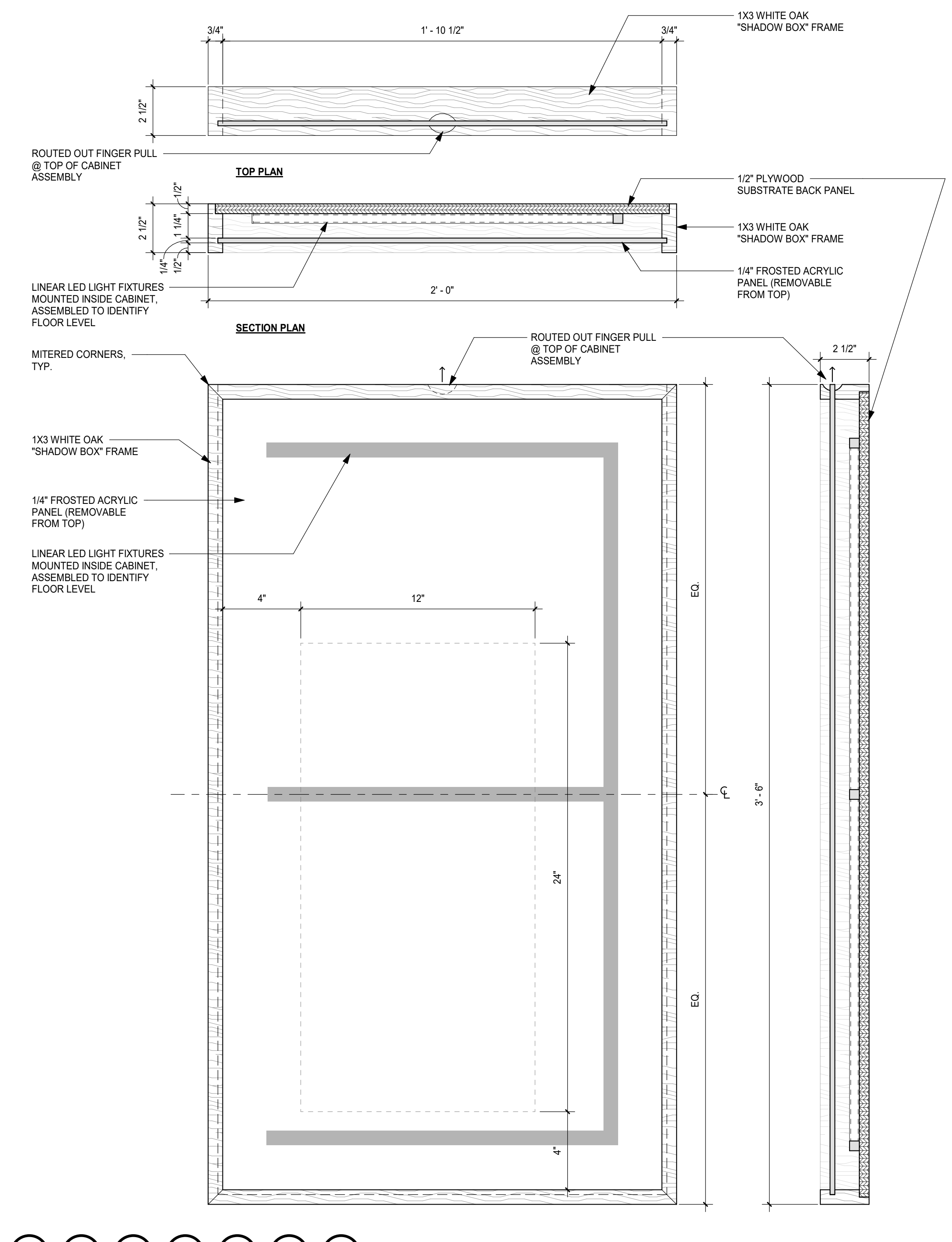
SIGN NO. & TEXT	QTY.	SIZE		TEXT COLOR	MATERIAL	MOUNTING
		WIDTH	HEIGHT			
EXTERIOR						
1A	1	1'-6"	1'-6"	GREEN	VINYL FILM	GLASS
2B	1	1'-6"	1'-6"	BLACK (V2.1)	VINYL FILM	GLASS
2B	1	1'-6"	1'-6"	GREEN (V2.2)	VINYL FILM	GLASS
3B	1	1'-6"	1'-6"	RED	ALUMINUM	EXISTING PARGED CMU
4B	1	1'-6"	1'-6"	BLACK	ALUMINUM	EXISTING PARGED CMU
5B	1	1'-6"	1'-6"	GREEN	ALUMINUM	EXISTING PARGED CMU
6C	1	1'-6"	1'-6"	GREEN	ALUMINUM	NEW METAL PANEL
8C	1	1'-6"	1'-6"	BLACK	ALUMINUM	EXISTING PRECAST
9D	1	1'-6"	1'-6"	BLACK	ALUMINUM	EXISTING PRECAST
10D	1	1'-6"	1'-6"	BLACK	ALUMINUM	EXISTING PRECAST
11D	1	1'-6"	1'-6"	BLACK	ALUMINUM	EXISTING PRECAST
12D	1	1'-6"	1'-6"	RED	ALUMINUM	EXISTING PRECAST
13D	1	1'-6"	1'-6"	BLACK	ALUMINUM	EXISTING CMU
14D	1	1'-6"	1'-6"	BLACK	ALUMINUM	EXISTING CMU
15D	1	1'-6"	1'-6"	BLACK	ALUMINUM	EXISTING PARGED CMU
A	1	2'-0"	2'-0"	BLACK	ALUMINUM	EXISTING PRECAST
A	1	2'-0"	2'-0"	BLACK	ALUMINUM	EXISTING PRECAST
B	1	2'-0"	2'-0"	BLACK	ALUMINUM	EXISTING PRECAST
B	1	2'-0"	2'-0"	BLACK	ALUMINUM	EXISTING PRECAST
C	1	2'-0"	2'-0"	BLACK	ALUMINUM	EXISTING PRECAST
C	1	2'-0"	2'-0"	BLACK	ALUMINUM	EXISTING PRECAST
D	1	2'-0"	2'-0"	BLACK	ALUMINUM	EXISTING PRECAST
D	1	2'-0"	2'-0"	BLACK	ALUMINUM	EXISTING PRECAST
INTERIOR						
1A	1	1'-6"	1'-6"	GREEN	VINYL FILM	GLASS
2B	1	1'-6"	1'-6"	GREEN (V2.1)	VINYL FILM	GLASS
2B	1	1'-6"	1'-6"	BLACK (V2.2)	VINYL FILM	GLASS
4B	1	1'-6"	1'-6"	BLACK	ALUMINUM	EXISTING CMU
5B	1	1'-6"	1'-6"	GREEN	ALUMINUM	MTL STUD / GYP BD
6C	1	1'-6"	1'-6"	GREEN	ALUMINUM	CMU
7C	1	1'-6"	1'-6"	BLACK	ALUMINUM	CMU
8C	1	1'-6"	1'-6"	BLACK	ALUMINUM	CMU
9D	1	1'-6"	1'-6"	BLACK	ALUMINUM	MTL STUD / GYP BD
10D	1	1'-6"	1'-6"	BLACK	ALUMINUM	CMU
12D	1	1'-6"	1'-6"	RED	ALUMINUM	MTL STUD / GYP BD
13D	1	1'-6"	1'-6"	BLACK	ALUMINUM	CMU
14D	1	1'-6"	1'-6"	BLACK	ALUMINUM	CMU
15D	1	1'-6"	1'-6"	BLACK	ALUMINUM	MTL STUD / GYP BD



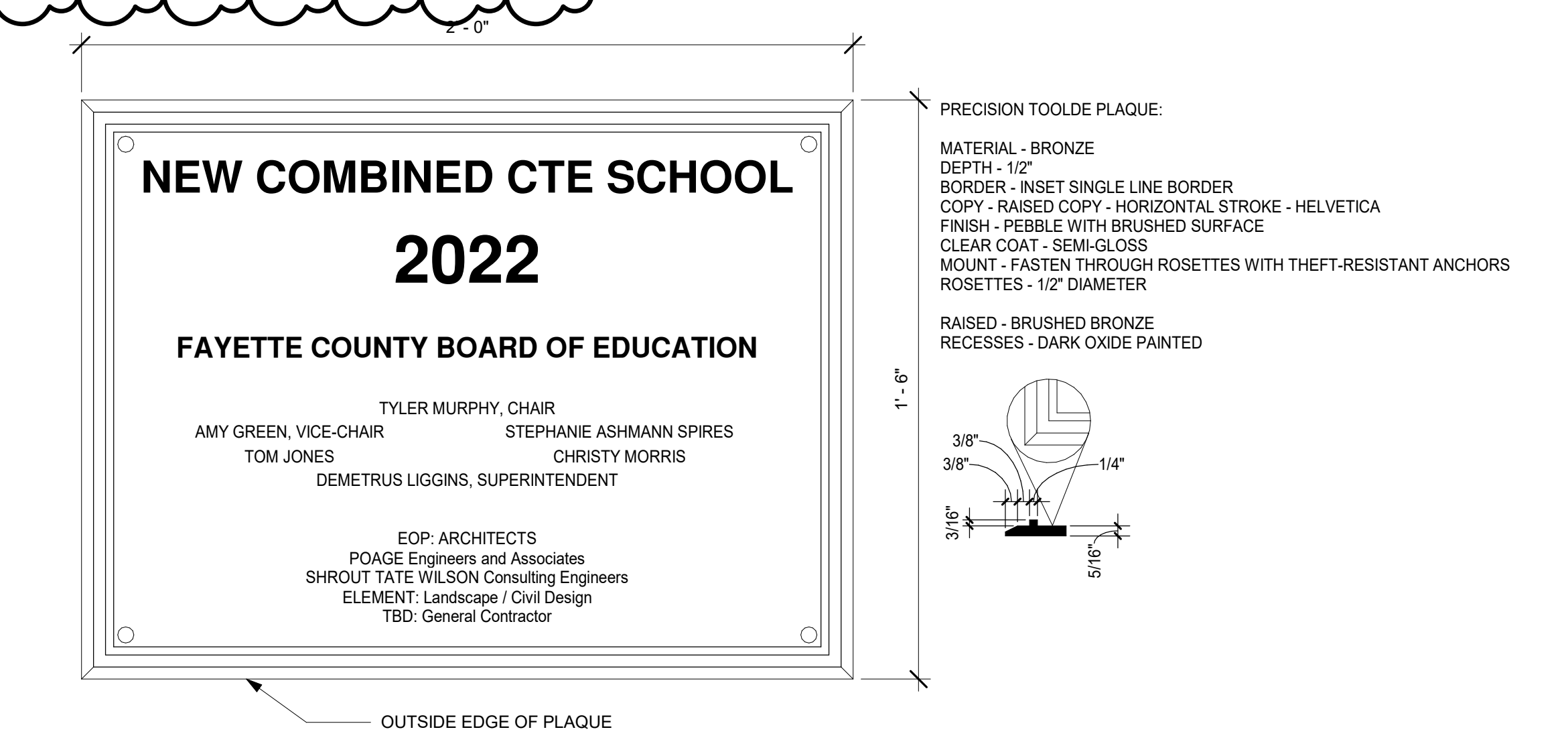
B1 LEVEL 1 OVERALL EXTERIOR SIGNAGE PLAN
 A950 SCALE: 3/64" = 1'-0"



A1 BUILDING SAFETY AND EXTERIOR/INTERIOR SIGNAGE
 A950 SCALE: 1/12" = 1'-0"



B5 SIGNAGE TYPE "H" DIRECTORY
 A950 SCALE: 3/8" = 1'-0"

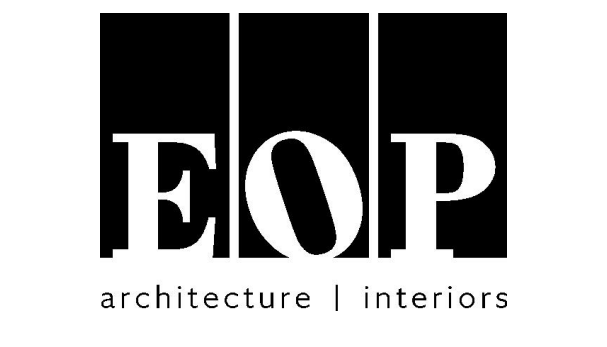


A5 BUILDING PLAQUE ELEVATION
 A950 SCALE: 3/8" = 1'-0"

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BID DOCUMENTS

REVISIONS		
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4	10/28/22	Revision 4



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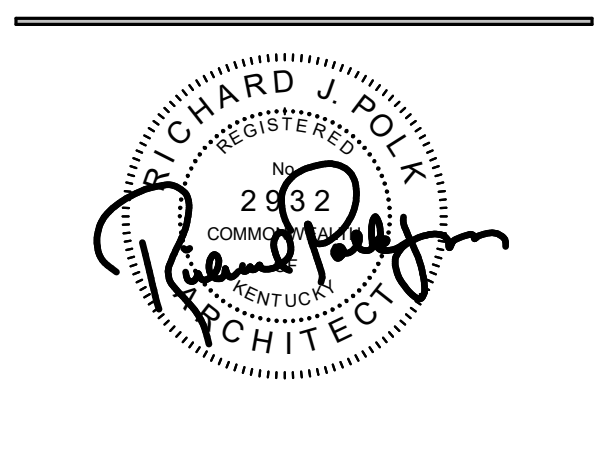
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 Date 09/28/2022



SIGNAGE

A950

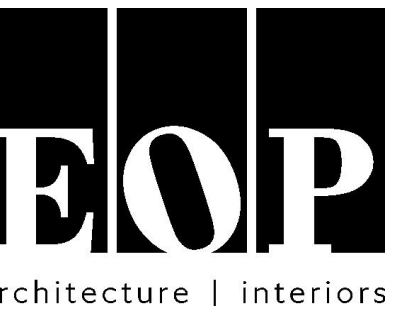
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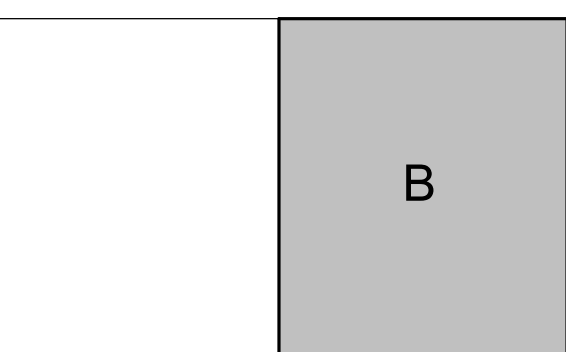


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KEYPLAN

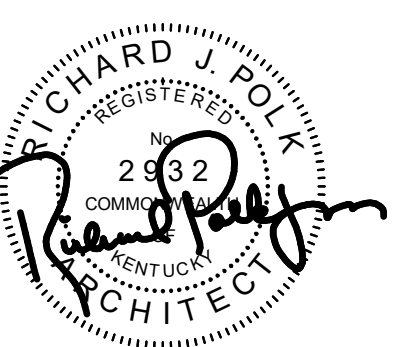


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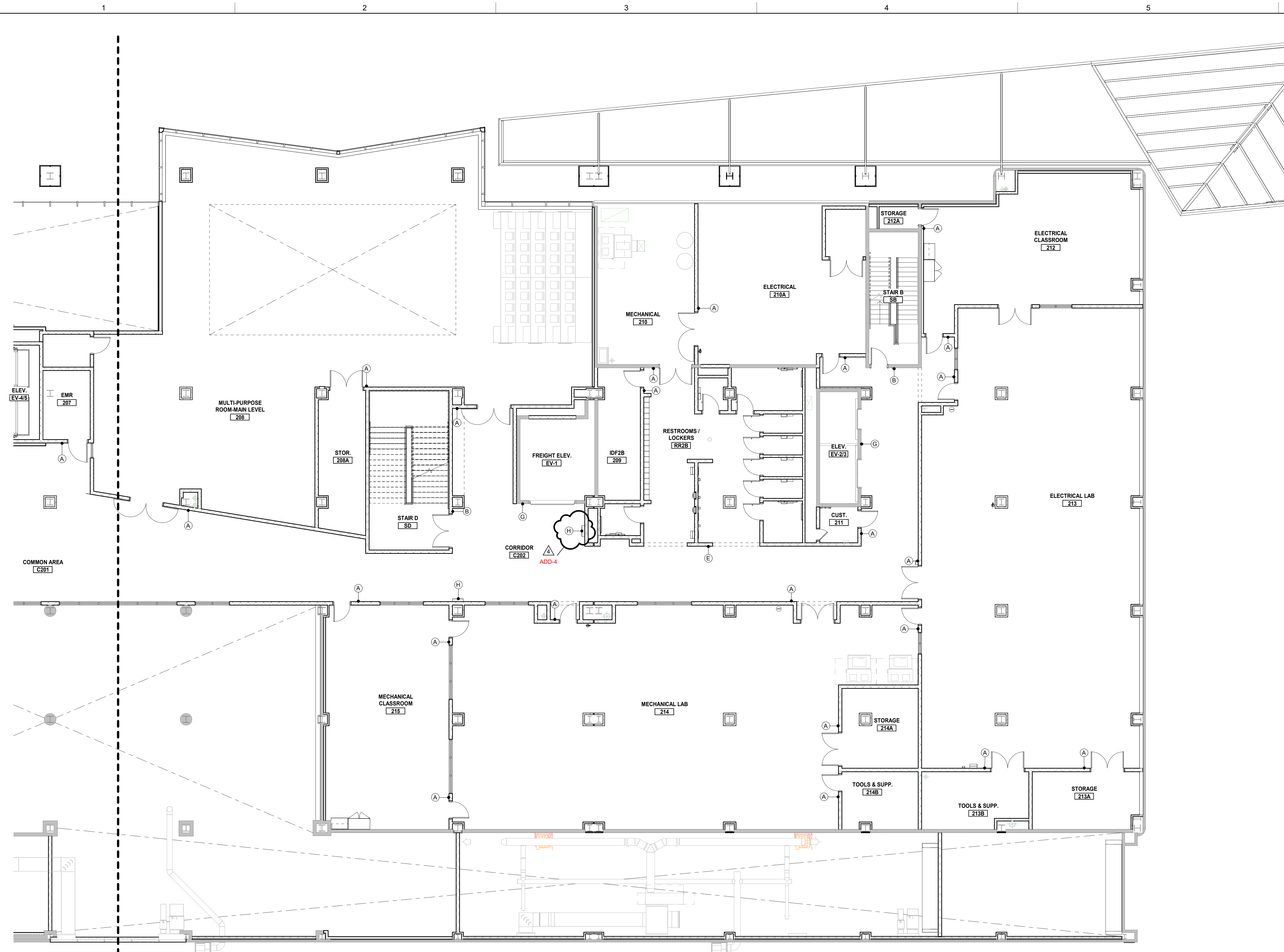
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Date 09/28/2022



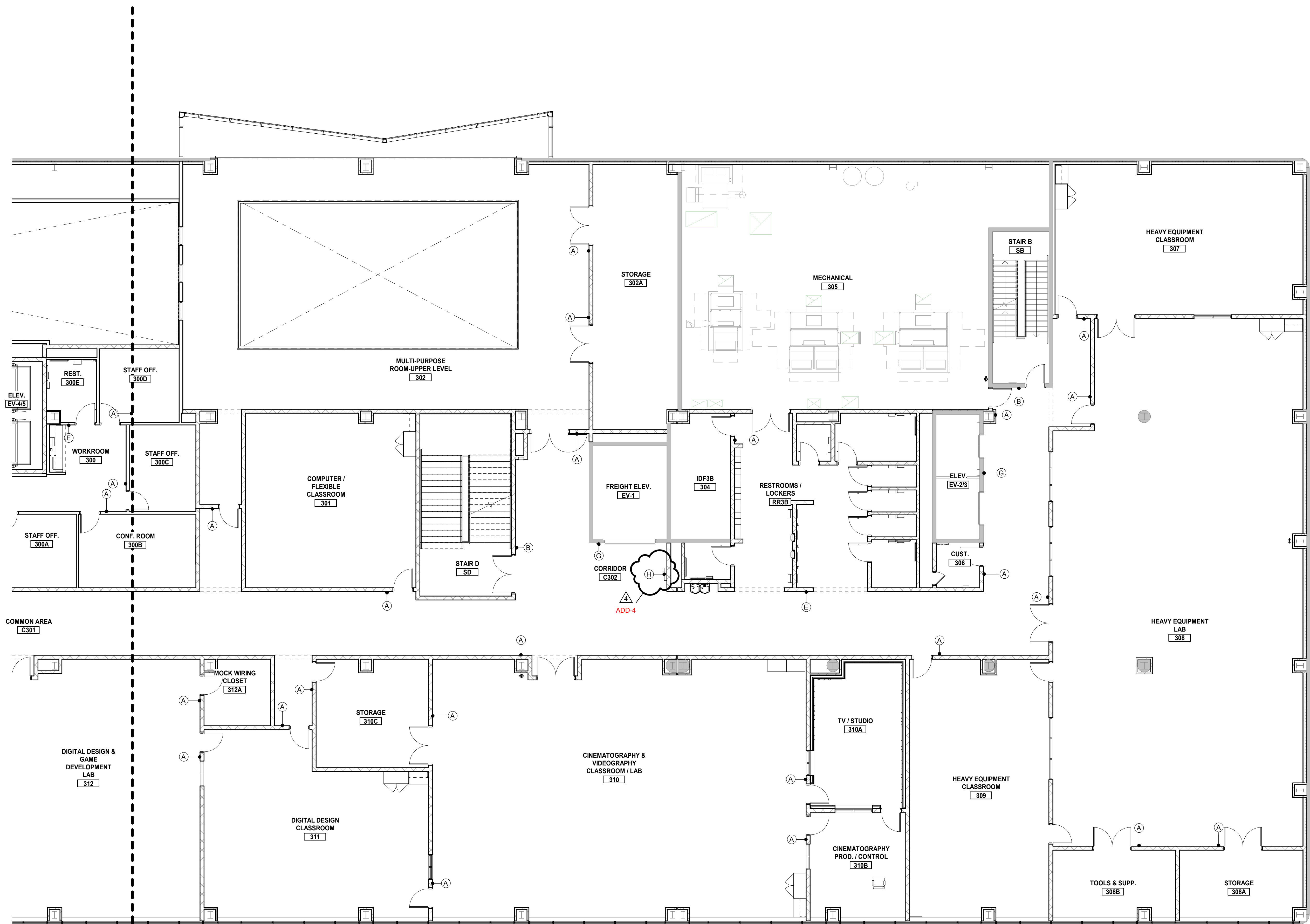
LEVEL 2B SIGNAGE

A954b



A1 LEVEL 2B SIGNAGE FLOOR PLAN
A954b SCALE: 1/8" = 1'-0"

10/26/2022 11:24:55 AM



A1 LEVEL 3B SIGNAGE FLOOR PLAN

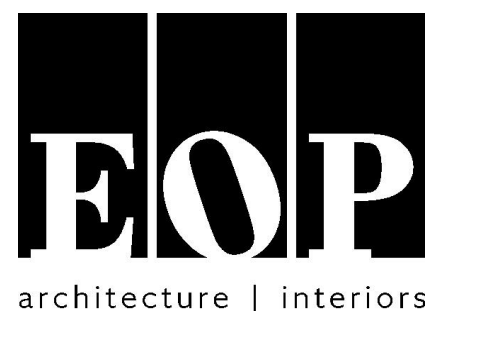
ASB09 SCALE: 1/8" = 1'-0"

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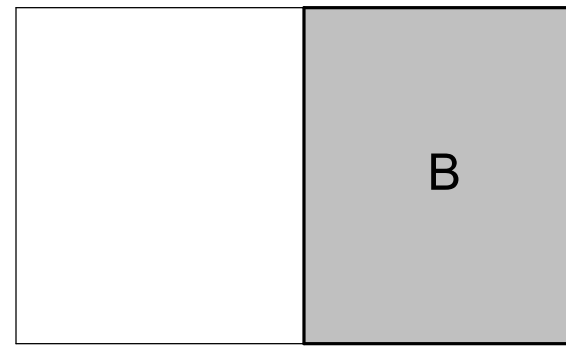


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KEYPLAN

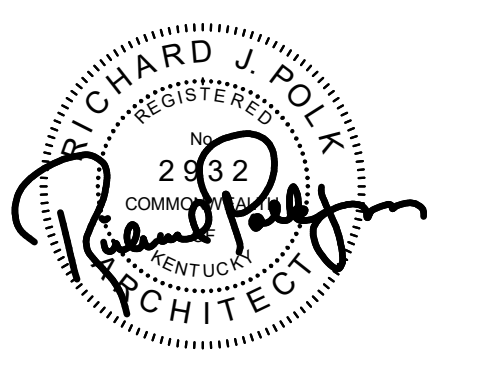


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Job Number	2150	PLAN
Drawn By	Author	TRUE
Checked By	Checker	
Date	09/28/2022	



LEVEL 3B SIGNAGE

A955b

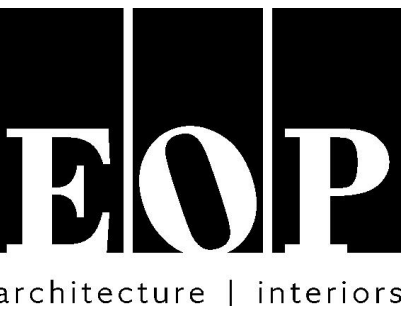
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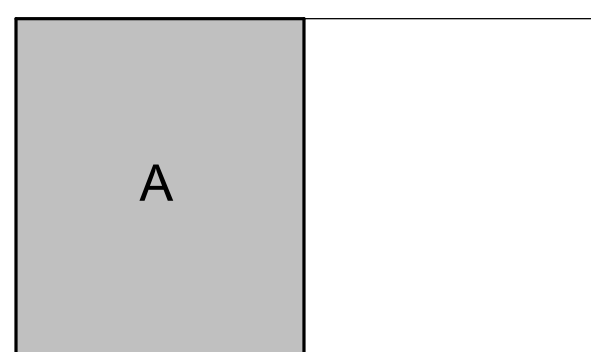


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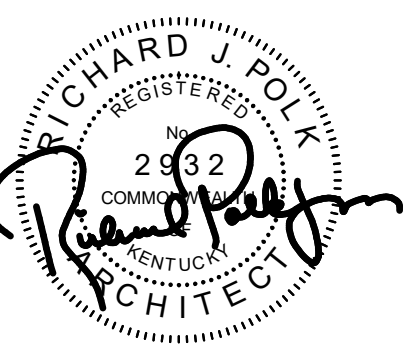
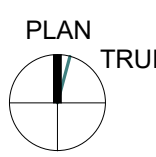


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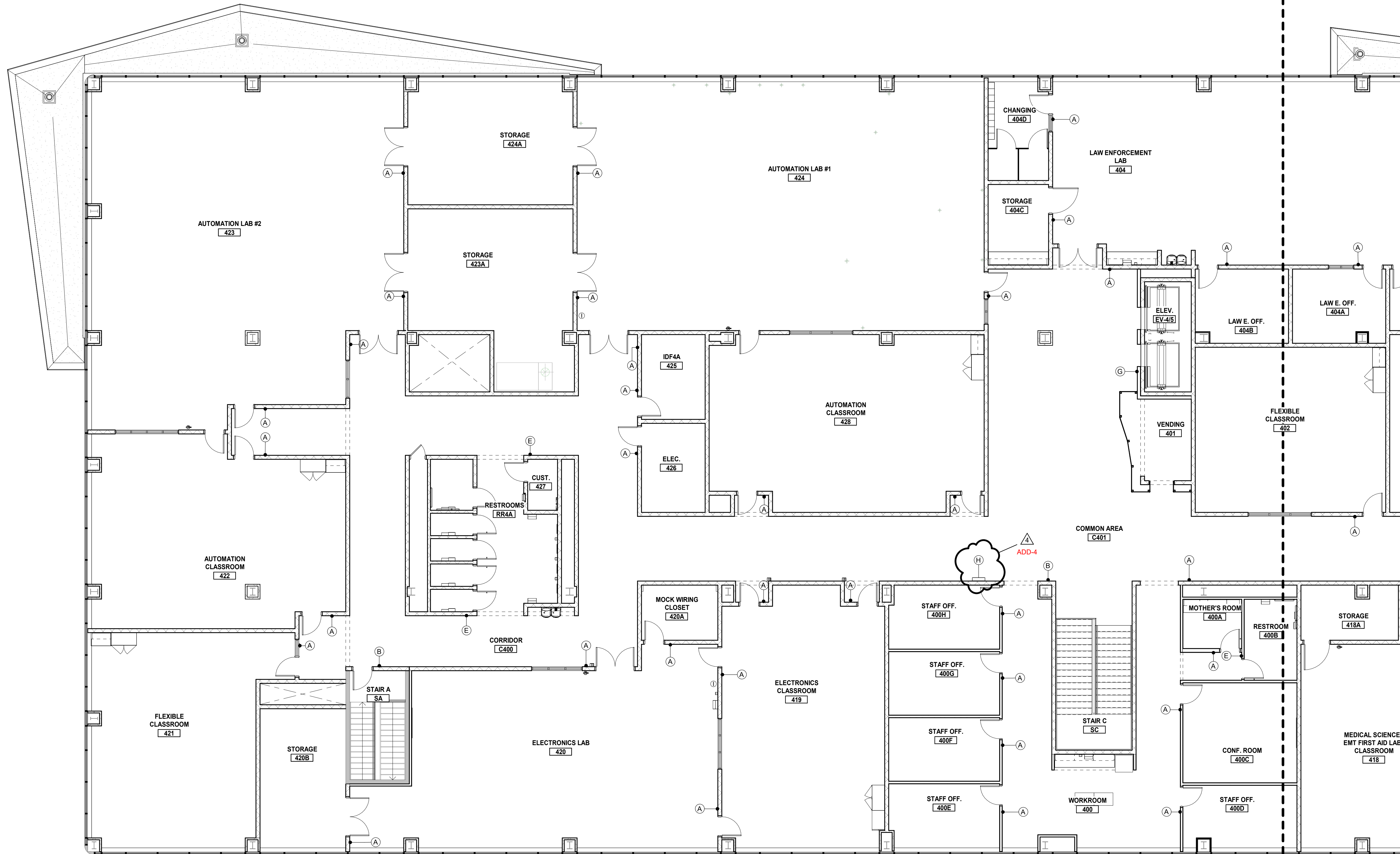
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LEVEL 4A SIGNAGE

A956a



A1 LEVEL 4A SIGNAGE FLOOR PLAN
A956a SCALE: 1/8" = 1'-0"