



# University of Kentucky

Procurement Services

## INVITATION FOR BIDS

CCK-2564.0-15-25

Construct Health Education Building

BP-04F Core and Shell MEPFs

ADDENDUM #2

10/02/2024

**IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY 10/09/2024 @ 3:00 P.M. LEXINGTON, KY TIME**

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

**ITEM #1: Questions & Answers and Modifications and Clarifications to the Contract Documents:**

- Bidders are instructed to review and incorporate into their offers the attached addendum#2 from Turner Construction Company and associated files.

**OFFICIAL APPROVAL**  
**UNIVERSITY OF KENTUCKY**

10/02/2024

*Ken Scott*

Ken Scott / (859) 257-9102

**SIGNATURE**

\_\_\_\_\_

Typed or Printed Name

University of Kentucky  
Procurement Services  
322 Peterson Service Building  
Lexington, KY 40506-0005

**UK Construct Health Education Building**  
**ADDENDUM No. 2**  
**UK-2564.0-15-25**  
**10/02/2024**

**Item No. 01** See answers to all submitted questions.

**Item No. 02** JRA Addendum No.02 - include all work scope items, clarifications, etc. as detailed consistent with your trade contract work scope document.

**Item No. 03** See attached revised TC-023 Misc Steel scope of work Attachment B.

**Item No. 04** See attached revised TC-024 Roofing scope of work Attachment B.

**Item No. 05** See attached revised TC-025 Mechanical Risers scope of work Attachment B.

**Item No. 06** See attached revised TC-026 Plumbing Risers scope of work Attachment B.

**Item No. 07** See attached revised TC-026A Plumbing Mechanical Risers Combo scope of work Attachment B.

**Item No. 08** See attached revised TC-027 Electrical Technology Risers scope of work Attachment B.

**Item No. 09** See attached revised TC-028 Fire protection scope of work Attachment B.

**Item No. 10** See updated Attachment "O" Enhancing Worker Experience Plan.

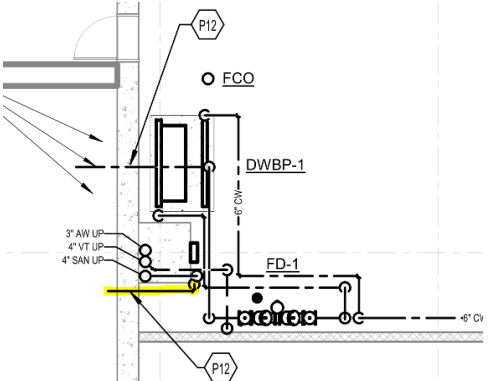
**Item No. 11** See updated Attachment "G" Bid Schedule.

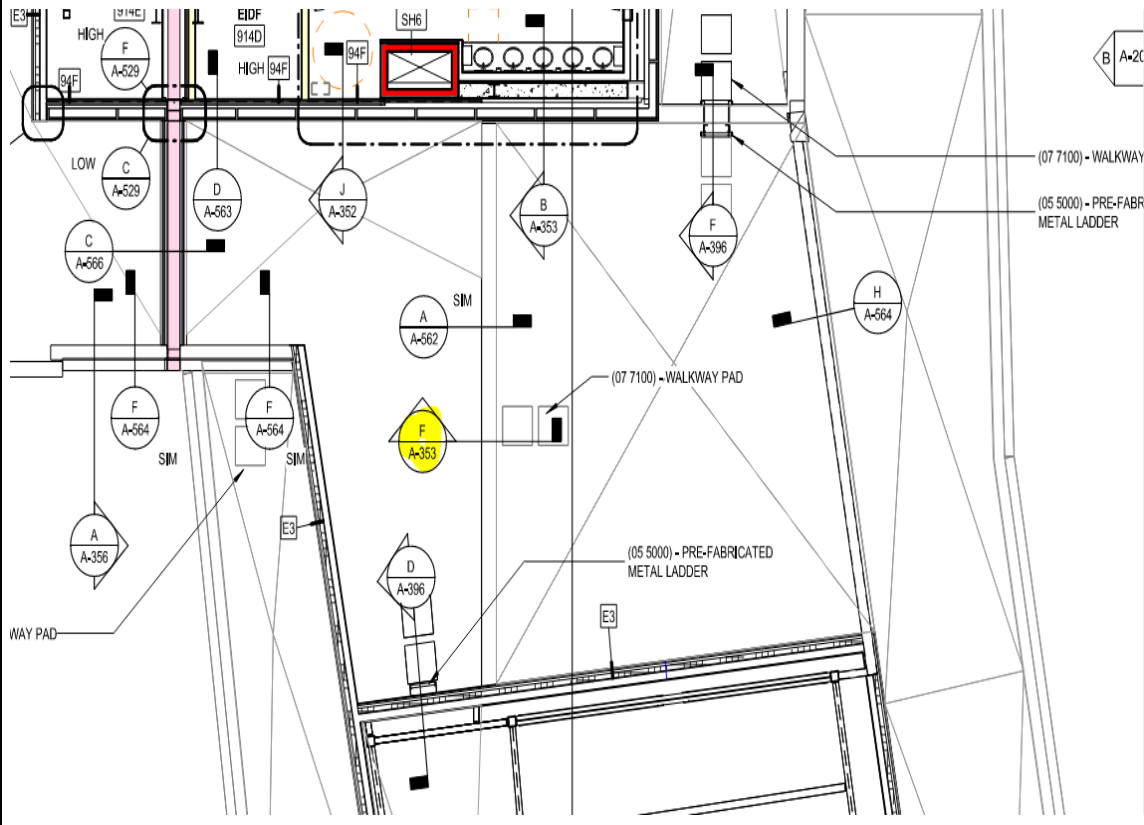
**Item No. 12** See updated sketch "SK-003" Temp Power Plan.

**Item No. 13** See new sketch "SK-004" existing Underslab Electrical Installation.

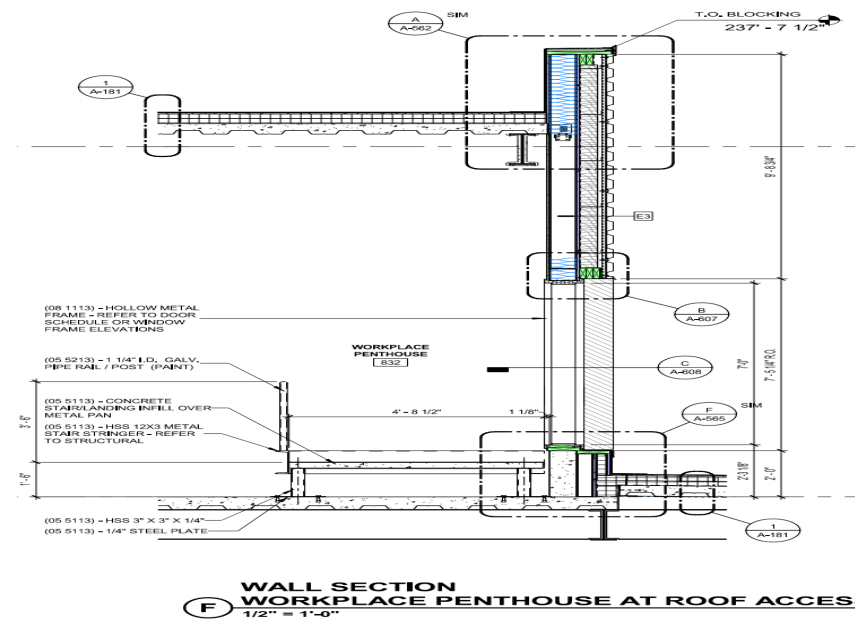
CCK-2564.0-15-25  
Question and Response Log  
Question Deadline

#	Question	Response
1	pg. FP-12 - It calls out for curbs and housekeeping pads? Isn't that concrete?	No. The installer shall provide curbs and housekeeping pads for the equipment they set up.
2	pg. FP-12 - Bar Grating - Do we supply the support steel as well (S-111A)?	The support steel for the Areaway Gratings will be provided by TC-016 Structural Steel contractor.
3	pg. S-111A - Do we pick up the elevator divider beams and embed plates?	No, the elevator divider beam and embed plates are provided by others.
4	pg. S-111A - Do we provide guide tubes in the elevator shaft on top of the divider beams?	No, the guide tubes are provided by TC-016 Structural Steel contractor.
5	pg.S-113A - Beams along line 3 (Note 76), are these precast panel supt assemblies? If so, we are to exclude note 76 marked beams?	These beams are provided by TC-016 Structural Steel contractor.
6	pg.S-119A - M /S-401 Are we to furnish the channels and plate near col. Line 6.6?	No, this channel and plate is provided by TC-016 Structural Steel contractor.
7	TC-026: Can you provide an isometric for the domestic water system?	A 2D representation of the domestic water risers are shown on P-301
8	Please see attached substitution request for section 072100 ( CCW Insulfoam) from the Henry Company. Attached is the data sheet for the proposed substitutions. If you have questions or concerns, please feel free to contact Kevin Cheeks (205) 821-0329 he is copied on this email.	Any Extruded Polystyrene Board Insulation, Type IV: ASTM C578, unfaced, is acceptable. Product submitted for substitution does not match specified product
9	pg.S-119B - K/S-429 Are the Stiff. PL and Cont. Bent PL ours to pick up?	No, the Stiff. PL and Cont. Bent PL are provided by TC-016 Structural Steel contractor.
10	pg.S-120A - B/ S-134 Area by line S13. I do not have a sheet S-134, should we have it?	Sheet S-134 shows details for steel framing within the elevator shaft. The steel shown on S-134 is part of the BP-03 Trade Contractor's scope which has already been bid. Therefore, sheet S-134 is not applicable to BP-04 Trades.
11	pg.S-121A- Screenwall steel is in our package? Notes 28 and 31. ( A & B/S-437)	No, screenwall steel is provided by TC-016 Structural Steel contractor.
12	pg.A121A - Elevator hoist beams and divider beams? (See line 8, we don't have S-134)	No, the elevator hoist beams and divider beams are provided by TC-016 Structural Steel contractor.
13	TC-026 Drawing P-101B near Col. Intersection D & 8. Drawing shows a tag for 6" ORL but doesn't show where the overflow storm is to be discharged.	refer to included revised drawing
14	TC-026 The Plumbing Schedule doesn't call out the Back Flow Preventer. Specifications are calling for a Watts #909 but no size is provided. Can you please verify what size BFP is needed for this project?	The water service to the building is 6"
15	TC-026 Drawing P-101A near Col. Intersection 5 & D. Drawing calls for a 10" ORL UP/DN. Drawing P-100A doesn't call out where this overflow storm line is being discharged. Please advise.	omit complete 10" ORL pipe shown from 9th floor to basement level at grid D5
16	TC-026 Downspout Nozzles (DSN-4, 6, 8 & 10) are not called out on the drawings. Please indicate which DSN type to use at each location.	refer to revised drawings for DSN designation

17	TC-026 Plumbing drawings only call out floor drains in the basement, which are excluded from this scope of work. Is it the intent to have the floor drains in a later bid package? If not, please provide an updated drawing with the floor drain tags.	Refer to revised drawings		
18	Drawing P-100A near column intersection 6 & A. Drawing shows a line with the P12 tag but doesn't have a size or service tag. 	The pipe is a 2" domestic cold water pipe for site irrigation.		
19	TC-026 Drawing P-109A has a call out for P-205. P-205 was not issued with the current set of drawings.	P-205 is an enlarged view of the anatomy support spaces and will be included in the final fitout drawings. All relevant information for this bid package is shown on P-109A		
20	TC-026 Drawing P-102B Detail #2 "Area B Generator". Drawing shows an RD-2 but the floors below don't show any piping to this roof drain. Are we to just set the roof drain and nothing else?	Refer to revised drawings		
21	Drawing P-107B near Col. Intersection SB.6 & S12.1. Drawing shows 4" RL & ORL line going DN but drawing P-106B doesn't show where the lines are being fed.			
22	TC-026 Add#1 Site Specific Line Item #20 <ul style="list-style-type: none"> <li>•Does "Provide" in this instance mean to provide and install these fixtures and the piping associated with the fixtures?</li> <li>•Are these two bathrooms going to be located on opposite ends of the basement area or back-to-back like a typical public bathroom layout? If so, will a chase be provided for the carriers?</li> <li>•Can you provide a sketch for the location(s) of these bathrooms?</li> </ul>	Yes, TC-026 to provide and install. These restrooms will be laid out back-to-back. These restrooms will be located in future permanent restrooms 014 A,B,& C.		
23	TC-026 On Drawing P-106C the Storm Overflow line seems incomplete. Can you provide an updated drawing to show size and routing.	Refer to revised drawings		
24	We have reviewed the project schedule and see no reference made to BP-04 electrical work. Please advise regarding a schedule and activities associated with BP-04, TC-027.	See updated schedule in Addendum #2.		
25	TC-026 Drawing P-109A near Col. Intersection D & 6. Drawing has a note saying "2" CA UP/DN" & "2" VAC UP/DN". However, the pipe and/or tag doesn't show up on the floors below.	Refer to revised drawings		
26	<table border="1"> <tr> <td>1. Is the Engineering team planning to modify and update the TAB specification (203140) for the current project?</td> </tr> <tr> <td>2. Is the TAB Agency also to include pressure testing the units after installation?</td> </tr> </table>	1. Is the Engineering team planning to modify and update the TAB specification (203140) for the current project?	2. Is the TAB Agency also to include pressure testing the units after installation?	Refer to the attached Updated 20 3140 TAB Revised Specification. The AHU's shall be pressure tested once installed by the Contractor. The AHU's shall be tested to 1.25 times the design pressure. The positive section of the AHU shall be tested at positive pressure and the negative pressure section shall be tested to negative pressure. A temporary partition shall be provided within the AHU to provide isolation between the two sections. The doors shall not be taped during this test. The maximum leakage rate shall be listed by the selected manufacturer. This applies to all VAV AHU's located in the North and South Penthouse and basement Mechanical Room.
1. Is the Engineering team planning to modify and update the TAB specification (203140) for the current project?				
2. Is the TAB Agency also to include pressure testing the units after installation?				

27	TC-026 Drawings P-107B and P-107C show roof drains but no tags indicating which roof drain is required.	refer to revised drawings
28	TC-026 Drawing P-109A near Col. Intersection 5 & D. Drawing shows (2) 10" Storm risers but they both do not continue onto P-110A. Is it possible for an isometric of the storm system to be released in the next addendum?	Related question to #15. See revised drawings
29	We do not see the A-400 series drawing in the architectural drawings.	Will provide these sheets as reference.
30	Are the framing plans tag notes that are shown on sheet S-002 for BP-04F only?	The structural documents are not divided by Trade Contractor scope packages. The Framing Tag Notes on S-002 apply to the entire drawing set. Tag Notes that involve items within a Trade Contractor's scope shall be considered applicable to that Trade Contractor.
31	I am preparing everything for this proposal and bid bond and our surety company requires a specific bond form to use. Would you know what form that is? AIA 310?	UK doesn't have a standard bid bond form. Most use "AIA 310" referenced below and that's fine.
32	TC-026 Drawing P-110A calls out equipment tag EPT-1 but isn't on the equipment schedule. Please provide additional information on EPT-1	Refer to P-601 Domestic Water Booster Pump Schedule Remark #9 for expansion tank sizing.
33	This bid package has fire protection, fire pump, smoke dampers, air handlers, and stairwell pressurization, yet I do not see any fire alarm system being called for in the bid. Can you confirm if the fire alarm is not part of this bid package?	Fire alarm will be bid out in a future package.
34	pg A-100A Mech Rm 026A stair and platform- Is this similar to A/ A-396 from pg A-108B?	Stairs in room 026A are cast-in-place concrete stairs with metal railings. See S-110A and sections N and M on S-306 for the concrete construction. If not otherwise noted, railing shall be steel pipe rail system 42" tall with top rail and mid rail and posts embedded and grouted into concrete base.
35	<p>pg A-109B Sect. F/A-353 does not show what the wall section shows. Please clarify</p> <p><b>Item #14 (from sheet A-109B)</b></p> 	<p>F/A-353 shows the correct wall section. It shows the parapet and the roof access door / stair below.</p>

Item #14 (Wall section F/A-353)



**WALL SECTION  
WORKPLACE PENTHOUSE AT ROOF ACCESS:  
1/2" = 1'-0"**

36	pg S-111A and S-308 - Do we provide the embed angles for grating at area ways?	No, the embed angles for gratings at area ways are provided by others.
37	We need a detail of room 023 that shows locations of panels and ATS.	See revised Sheet E-400S (attached)
38	We need a detail of room 121 (Generator Enclosure)	See revised Sheet E-201F (attached)
39	Locations of fire pump and ATS's inside of room 021.	See revised Sheet E-400S (attached)
40	Do we need to provide the (2) 1500A breakers in the fire pump room 021 as shown on page E-600?	These will be furnished by TC-017 and installed by TC-027.
41	The 15kv feeds that are going to the 8th floor are called to be installed in EMT on the plans. Specification 260533-2 Raceways and Fittings states the following: "Rigid galvanized steel conduit shall be used for all building interior power wiring or cables of over 600 Volts." Do these medium voltage feeds need to be installed in EMT or Rigid?	All 15KVC feeders above grade are to be RGS. Revise one-line note 7 to indicate RGS.
42	Is it possible to have the underground conduits on page E-200F identified? There is no clear way of identifying what gear the underground conduits are going to.	See revised Sheet E-400S (attached). Exact routing and layout shall be coordinated with equipment shop drawings.
43	pg S-130 Stair A - Terrazzo I did not see a Specification for this. Are we to do Terrazzo?	Terrazzo provided in later package
44	Stair A - risers. What are the risers between the treads made of and dimensions?	Refer to Stair sheets and details
45	Existing Comm duct bank below first floor between column lines S9 & S10. We are looking at section A/S-420 for support steel information and then we wanted to clarify how steel attaches along column line SA (F/S-303). We do not have sheet S-303.	The existing Comm Ductbank support steel is provided by others.
46	The Hydronic Piping section of spec section 201340 identifies sched. 40 steel as a material option for any size hydronic. This does NOT meet UK's typical piping standard. Please revise specification and clarify material types actually allowed on this Health Ed Building, at all size ranges.	Refer to 201340.N. Piping 4" and smaller shall be Type L Copper for chilled water. Victaulic Piping (Grooved style 607N) shall be acceptable on 2" and larger piping. Chilled water 3-4" may be Type L Copper with lead free solder or Victaulic couplings. 6" and up shall be Schedule 40 black steel welded or Victaulic 107N couplings. Heating or Hydronic Hot water shall be Copper below 4". Victaulic 107N is acceptable on 2 inch and larger piping. At 6 inches and up the piping shall be schedule 40 black steel or Victaulic grooved 107N.
47	Page 8 of the Pipe and Pipe Fittings spec section (201340-8) indicates PVC piping is allowed for some plumbing drainage system, with certain restrictions/situations. We believe this is against building code due to the overall height of the building, please advise.	The vertical risers shall be cast iron. Restroom chases are allowed to be PVC per the Specification. Since the PVC is limited to withing a single restroom chase at a time, the piping vertical height will not exceed 15' of PVC and the thermal expansion concern is alleviated.
48	There are multiple fire/smoke dampers (126 qty.) shown on the floor plans that reference furnishing and wiring but do not indicate control requirements. Is the BAS to control these dampers?	This is part of the Controls RFP.

49	Several pieces of equipment are indicated on the controls schematic (VAVs, air valves, laboratory controls, CRAC, etc.), but their quantities are not shown on the floor plans/schedules. Since these items are not shown on the floor plans, please provide the quantities of each item.	VAVs, air valves, laboratory controls, CRAC, etc. will be procured in a future package.
50	Lighting controls for 70 zones with command and monitoring are requested, plus, shown as BACnet interface. Is a single BACnet interface to the lighting panel acceptable?	This is part of the Controls RFP.
51	After reviewing the drawings and the scope of work for TC-023 Misc Metals, I believe that specification section 057313 is missing from the documents. The scope of work specifies that Stair A is installed by TC-023 but there is no information for the stair other than what is on the drawing that calls out spec 057313.  On the drawings there also is smoke baffle and I want to confirm that will be a part of the Stair A installation.	Spec 057313 is not part of this bid package and will be bid out in a future package.
52	Reference drawing E404S note #80. (8) 3" conduits. Drawing E-600F note #2 calls for a 3000 Amp Busway in future bid package. We to install the (8) 3" correct?	The 3" conduits indicate feeders from the substation to floor distribution panels. Bus duct is for the substation secondary tie. Both are to be installed in this scope.
53	Drawing E-600F note #7 Calls for 5" EMT. Should this be GRS? Please confirm.	All 15KVC feeders above grade are to be RGS. Revise one-line note 7 to indicate RGS.
54	Are there other drawings that we are to review? I do not see the location of the Generator, Docking Station & Load Bank. Please confirm.	See revised Sheet E-201F (attached)
55	Is there an Enlarged Emergency Room Drawing?	See revised Sheet E-400S (attached)
56	Would a NISSET Certified Company be approved as an equal to NETA Certified Company?	Yes
57	Could the feeders running from the Main Electric Room (020) & Emergency Room (023) be run under slab or under grade to Electric Room 058 & up through the building to the Penthouse?	This routing does not appear to be feasible due to obstructions and pulling tension limitations.

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FOR THE PROJECT TITLED:

**Health Education Building**  
**UK Project No. 2564 BP-04F**  
**JRA Project No. 202170**  
University of Kentucky  
Lexington, Kentucky

To: Prospective Bidders

From: JRA Architects  
301 East Vine Street  
Lexington, KY 40507

Project Contact: D. Robert Deal, AIA, LEED AP

The Addendum will form a part of the Contract Documents and modifies the original Bidding Documents dated August 2024.

Bidders must acknowledge receipt of this Addendum in the space provided on the Form of Proposal. Failure to do so may subject the bidder to disqualification.

Bidding Documents, including the Drawings and Specifications, are amended as described herein.

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**ADDENDUM ITEMS:**

**ITEM NO. 2.01**

Add reference A-400 Sheets. Enlarged Plans.

**ITEM NO. 2.02**

Add Specification 117200 – EXAMINATION AND TREATMENT EQUIPMENT.

**ITEM NO. 2.03**

Add Specification 078413 – PENETRATION FIRESTOPPING.

**ITEM NO. 2.04**

Add Specification 078443 – JOINT FIRESTOPPING.

**ITEM NO. 2.05**

Add Specification 079200 – JOINT SEALANTS.

**ITEM NO. 2.06**

Add sheet C101 – EROSION CONTROL DETAILS.

**ITEM NO. 2.07**

Add Specification 312001 – STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

**ITEM NO. 2.08**

Add Reference Specification 115300 – LABORATORY EQUIPMENT for ceiling hung equipment.

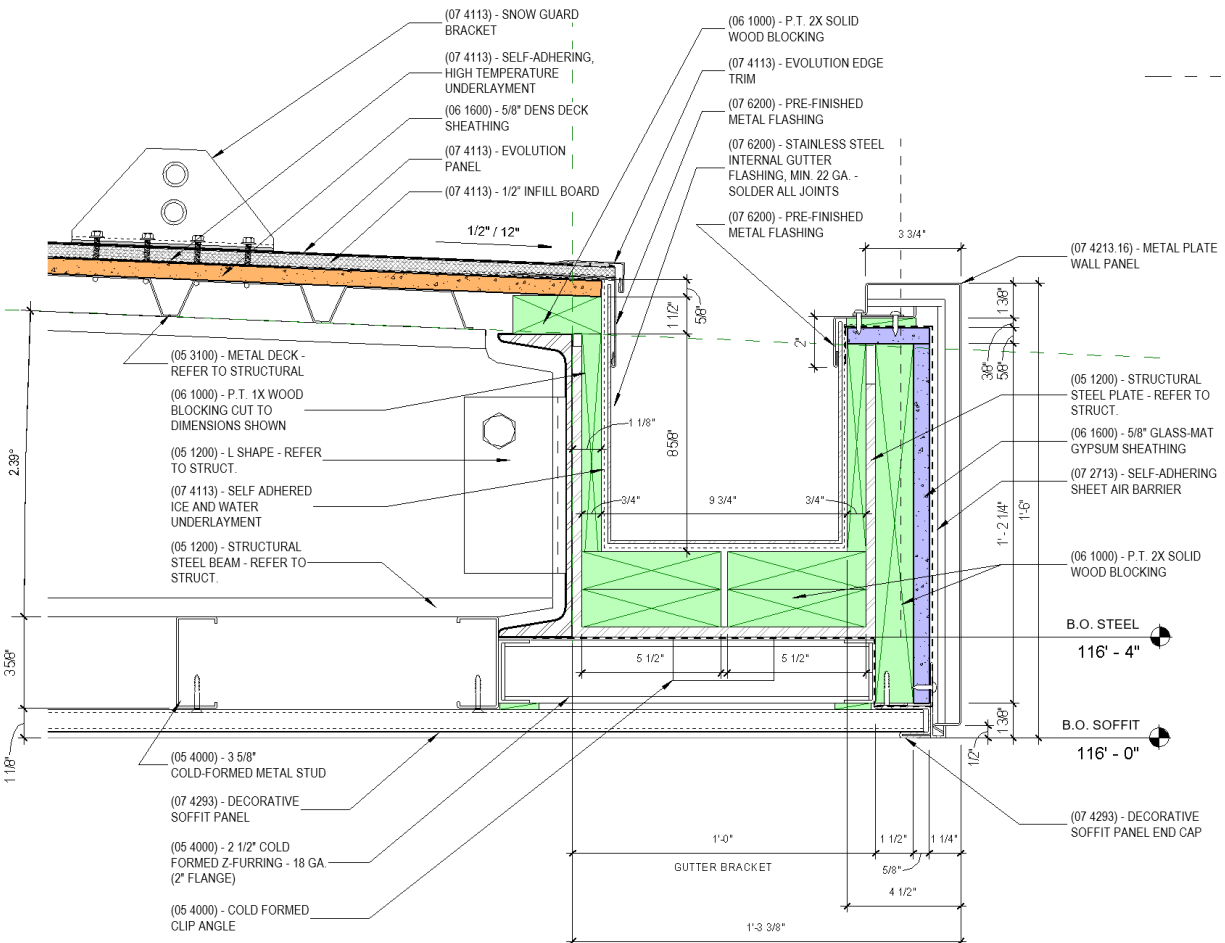
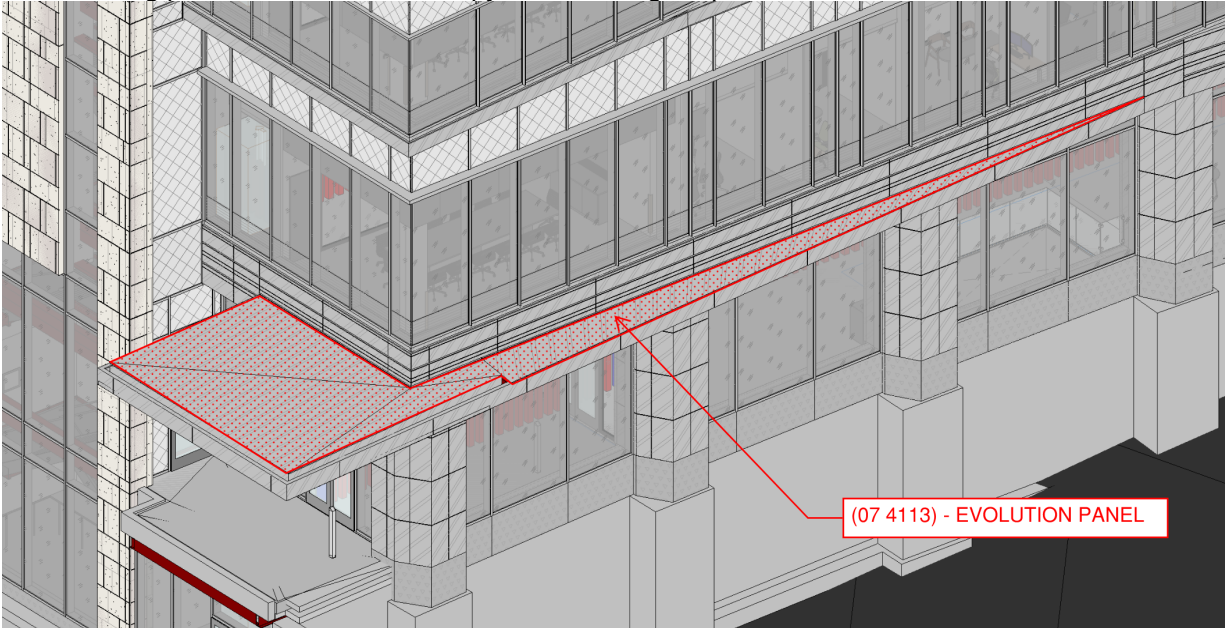
**ITEM NO. 2.09**

Add Reference Specification 117200 – EXAMINATION AND TREATMENT EQUIPMENT for ceiling hung equipment.



**ITEM NO. 2.10**

Add remaining portion of the South Canopy to the roofing scope. See 3D sketch and revised detail J/A-545.



**J** ENLARGED CANOPY DETAIL  
**TYPICAL BUILT-IN GUTTER**  
 3" = 1'-0"

**ITEM NO. 2.11**

Refer to Roofing Types and Details. Where 07 5423 – THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING and 07 4113 - MANUFACTURED METAL ROOF PANELS occur, as indicated on the drawings, provide the following on all vertical and horizontal surfaces:

1. Glass-mat gypsum roof substrate board: ASTM c1177/c1177m, water-resistant gypsum board.
  1. Thickness: type x, 5/8 inch.
  2. Surface finish: unprimed.

Basis of design: Georgia-Pacific Building Products - DensDeck

**ITEM NO. 2.12**

Refer to sheet S-002. Added tag note 96 clarifying secondary framing intent, as well as delegated design intent, for support of patient lift equipment.

**ITEM NO. 2.13**

Refer to sheet S-116A. Showed patient lift assemblies and associated tag note 96.

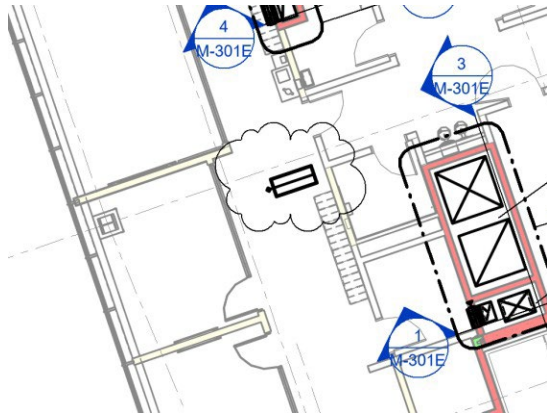
**ITEM NO. 2.14**

Refer to sheet S-119A. Showed patient lift assembly and associated tag note 96.

**ITEM NO. 2.15**

Refer to drawing M-107E MECHANICAL PLAN – SEVENTH FLOOR OVERALL

- A. Duct in snippet below shall move plan east as shown.

**ITEM NO. 2.16**

Refer to drawing E-200F ELECTRICAL FLOOR PLAN – PATHWAYS – BP4

- A. Refer to the attached revised sheet for additional equipment locations and revised notes.

**ITEM NO. 2.17**

Refer to drawing E-201F ELECTRICAL FLOOR PLAN – PATHWAYS – BP4

- A. Refer to the attached revised sheet for additional equipment locations.

**ITEM NO. 2.18**

Refer to drawing E-400S ELECTRICAL FLOOR PLAN – PATHWAYS – BP4

- A. Refer to the attached revised sheet for additional equipment locations.

**ITEM NO. 2.19**

Refer to drawing E-600F ELEC POWER DISTRIBUTION ONE-LINE DIAGRAM - BP4

- A. Refer to the attached revised sheet for revised notes.

**ITEM NO. 2.20**

Refer to drawing E-601F ELEC POWER DISTRIBUTION ONE-LINE DIAGRAM - BP4

- A. Refer to the attached revised sheet for revised notes.

**ITEM NO. 2.21**

Refer to drawing E-701Q ELECTRICAL PANEL SCHEDULES – BP4

- A. Revise the circuit for CHWP-2B, HP0B-25,27,29, to be a 15A/3P circuit with #12 wire and ¾" conduit.

**ITEM NO. 2.22**

Refer to drawing P-100A PLUMBING-BASEMENT-AREA A

- A. Clarified domestic water service entry.
- B. Clarified condensate and floor drain locations.

**ITEM NO. 2.23**

Refer to drawing P-101A PLUMBING-FIRST FLOOR-AREA A

- A. Clarified roof drain piping.
- B. Clarified downspout information.

**ITEM NO. 2.24**

Refer to drawing P-101B PLUMBING- FIRST FLOOR -AREA B

- A. Clarified roof drain piping
- B. Clarified downspout information

**ITEM NO. 2.25**

Refer to drawing P-101C PLUMBING- FIRST FLOOR -AREA C

- A. Clarified ORL downspout information

**ITEM NO. 2.26**

Refer to drawing P-102A PLUMBING-SECOND FLOOR-AREA A

- A. Clarified roof drain piping

**ITEM NO. 2.27**

Refer to drawing P-102B PLUMBING- SECOND FLOOR -AREA B

- A. Clarified generator roof drain and piping

**ITEM NO. 2.28**

Refer to drawing P-103A PLUMBING-THIRD FLOOR-AREA A

- A. Clarified roof drain piping

**ITEM NO. 2.29**

Refer to drawing P-104A PLUMBING-FOURTH FLOOR-AREA A

- A. Clarified roof drain piping
- B. Clarified CA and VAC piping

**ITEM NO. 2.30**

Refer to drawing P-105A PLUMBING-FIFTH FLOOR-AREA A

- A. Clarified roof drain piping
- B. Clarified CA and VAC piping

**ITEM NO. 2.31**

Refer to drawing P-106A PLUMBING-SIXTH FLOOR-AREA A

- A. Clarified roof drain piping
- B. Clarified CA and VAC piping

**ITEM NO. 2.32**

Refer to drawing P-106B PLUMBING- SIXTH FLOOR -AREA B

- A. Clarified roof drain piping

**ITEM NO. 2.33**

Item #19 Refer to drawing P-106C PLUMBING- SIXTH FLOOR -AREA C

- A. Clarified roof drain piping

**ITEM NO. 2.34**

Item #20 Refer to drawing P-107A PLUMBING-SEVENTH FLOOR-AREA A

- A. Clarified roof drain piping
- B. Clarified CA and VAC piping

**ITEM NO. 2.35**

Item #21 Refer to drawing P-107B PLUMBING- SEVENTH FLOOR -AREA B

- A. Clarified roof drain piping

**ITEM NO. 2.36**

Item #22 Refer to drawing P-107C PLUMBING- SEVENTH FLOOR -AREA C

- A. Clarified roof drain piping
- B. Clarified roof drain locations

**ITEM NO. 2.37**

Refer to drawing P-108A PLUMBING-EIGHTH FLOOR-AREA A

- A. Clarified roof drain piping
- B. Clarified CA and VAC piping

**ITEM NO. 2.38**

Refer to drawing P-108B PLUMBING- EIGHTH FLOOR -AREA B

- A. Revised roof drain designations
- B. Clarified roof drain piping

**ITEM NO. 2.39**

Refer to drawing P-108C PLUMBING- EIGHTH FLOOR -AREA C

- A. Clarified roof drain piping
- B. Revised roof drain designations and locations

**ITEM NO. 2.40**

Refer to drawing P-109A PLUMBING-NINTH FLOOR-AREA A

- A. Removed floor drains in anatomy lab and supporting spaces
- B. Clarified roof drain piping
- C. Clarified CA and VAC piping

**ITEM NO. 2.41**

Refer to drawing P-109B PLUMBING- NINTH FLOOR -AREA B

- A. Clarified roof drain piping

**ITEM NO. 2.42**

Refer to drawing P-110A PLUMBING- PENTHOUSE -AREA A

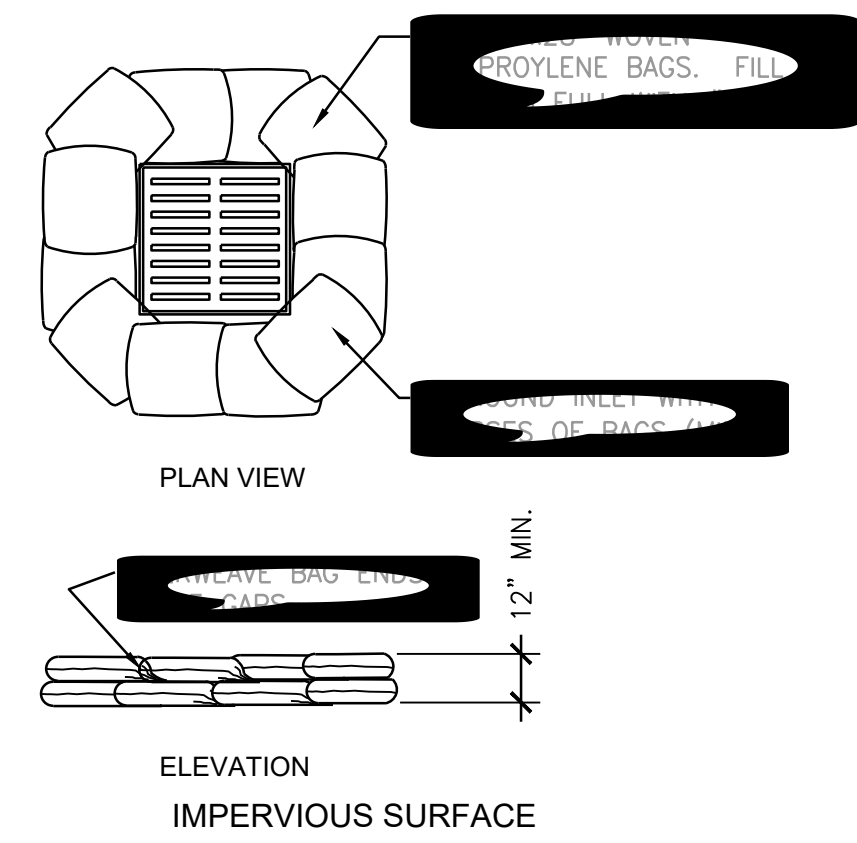
- A. Revised roof drain designations

**ITEM NO. 2.43**

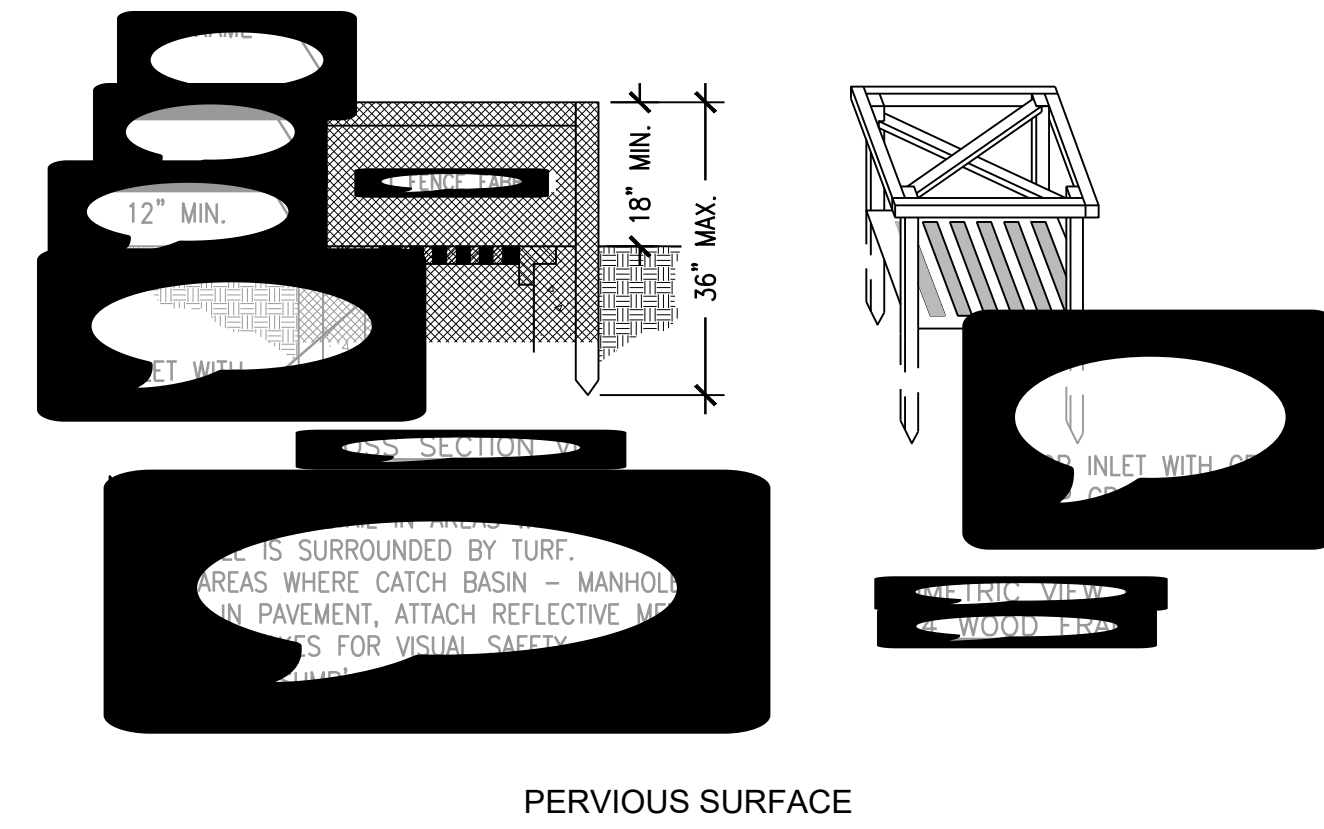
Refer to drawing P-301 PLUMBING SCHEMATIC DIAGRAMS

- A. Added CA and VAC pipe sizes

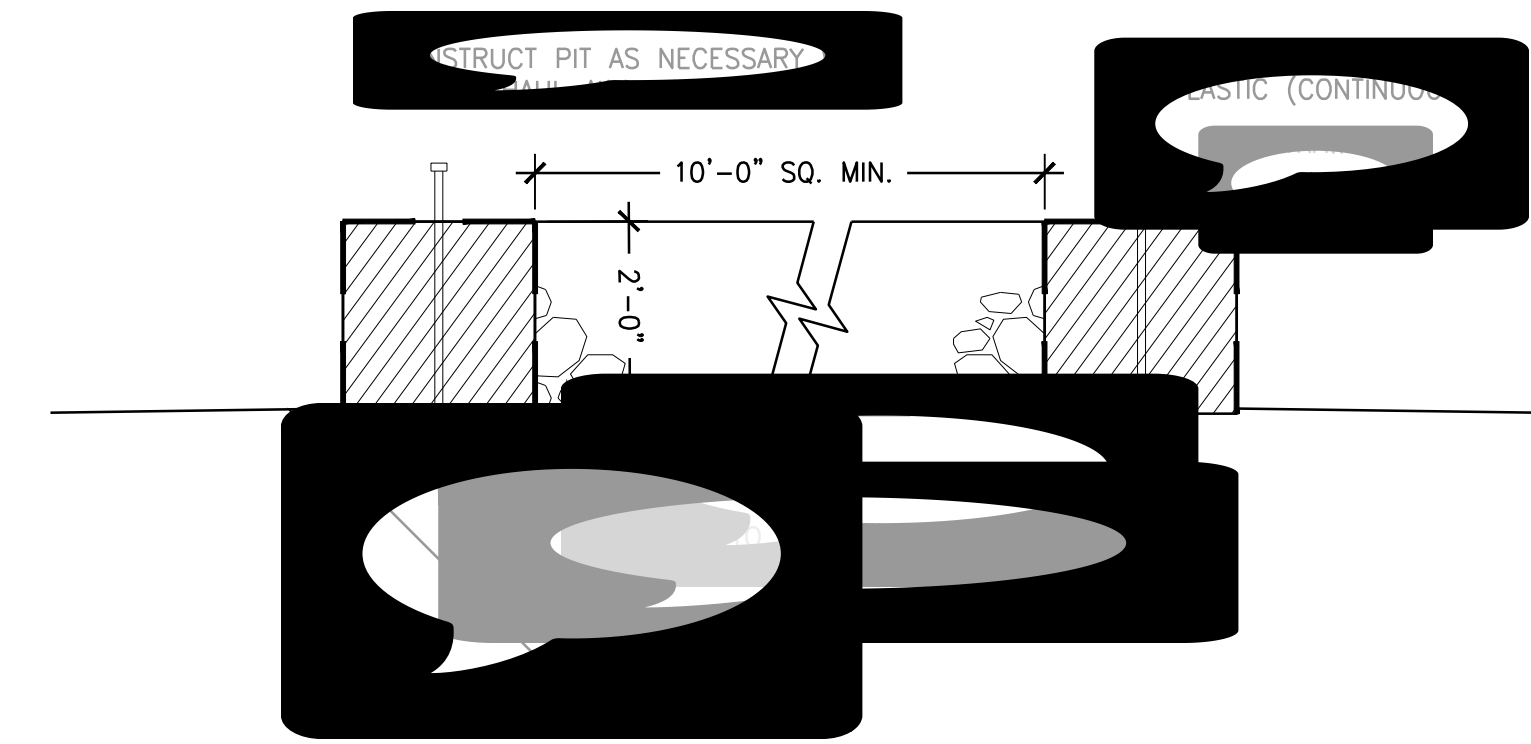
**END OF ADDENDUM NO. 2.0**



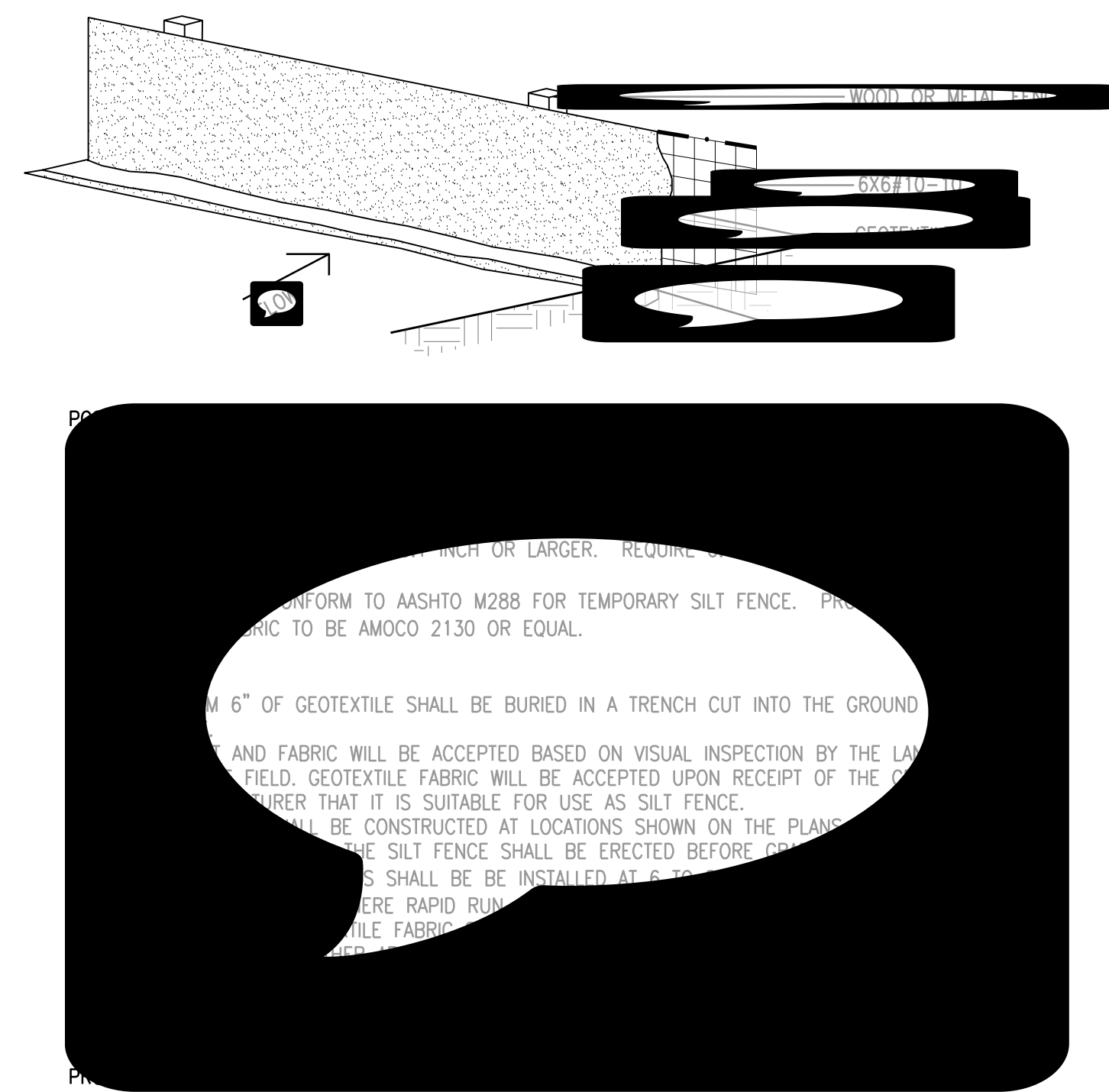
**A** INLET PROTECTION  
SCALE: NTS



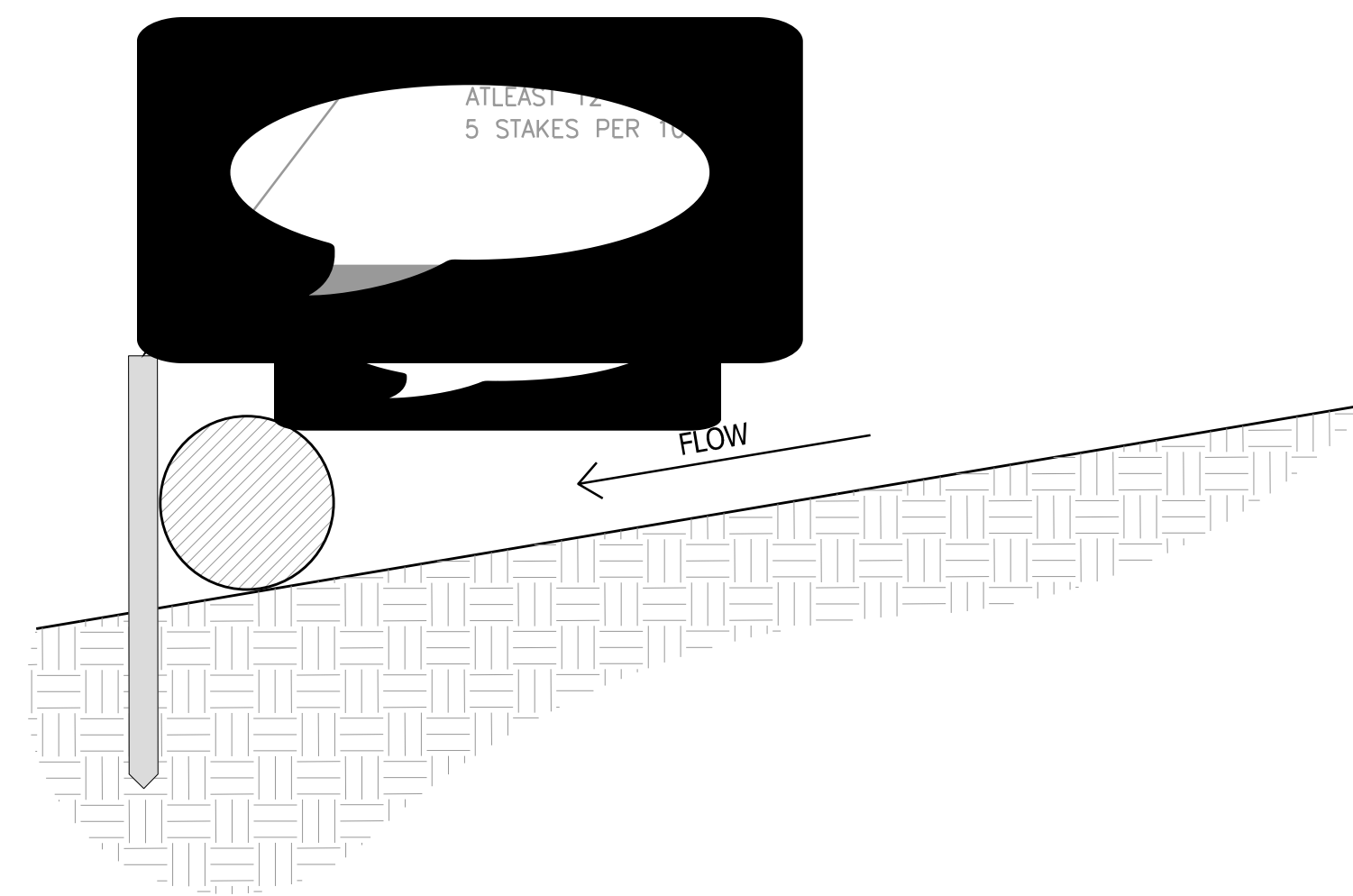
**B** CONCRETE WASHOUT PIT  
SCALE: 1/2" = 1'-0"



**C** CONSTRUCTION ENTRANCE  
SCALE: NTS



**D** SILT FENCE  
SCALE: NTS

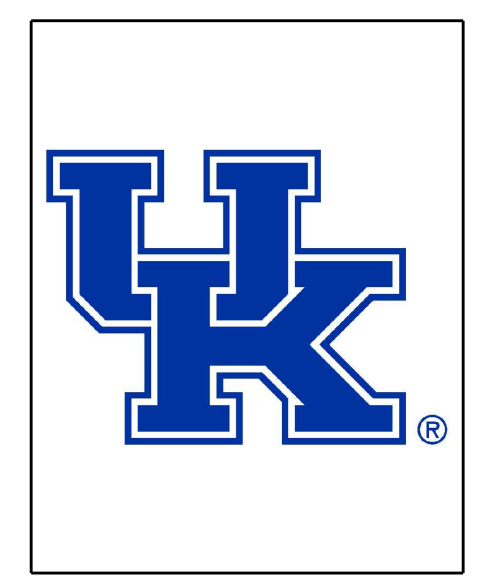


**E** WATTLES  
SCALE: NTS

RESERVED FOR AHJ STAMP

**CARMAN**  
ARCHITECTURE  
LABORATORY  
CIVIL ENGINEERING

CONSTRUCTION DOCUMENTS  
(FRO FROM BP-01A & BP-01B)  
**UNIVERSITY OF KENTUCKY**  
**HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



CIVIL		
PROJECT	202170	
DATE	08.19.24	
REVISIONS		
No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN AN ELECTRONIC OR ANY OTHER FORMAT, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSMIT THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

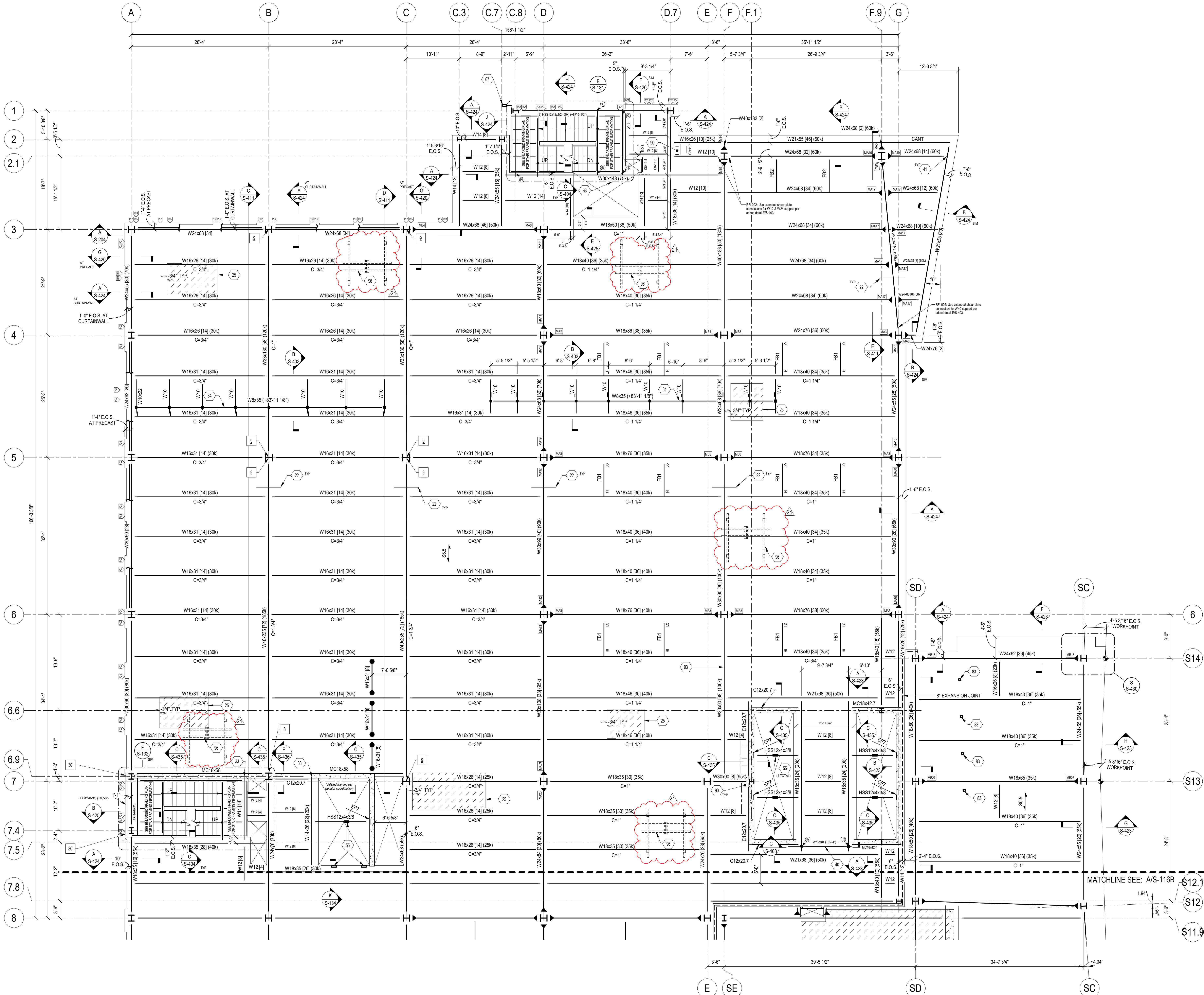
**EROSION CONTROL DETAILS**

**C101**  
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**FOR REFERENCE ONLY**





FRAMING PLAN - SIXTH FLOOR - AREA A

1/8" = 1'-0"

REFERENCE TRADE CONTRACTS FOR SCOPE INCLUDED IN BID PACKAGE BP-03. ALL OTHER INFORMATION SHOWN FOR REFERENCE ONLY. COLD-FORM STEEL STUD FRAMING IS FOR GENERAL REFERENCE ONLY AND IS NOT FOR CONSTRUCTION (NOR BID) BASED ON BP-03 DOCUMENTS.

FRAMING PLAN NOTES

- 1. ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
2. FINISHED FIRST FLOOR ELEVATION (+0'-0").
FINISHED SECOND FLOOR ELEVATION (+2'-0").
FINISHED THIRD FLOOR ELEVATION (+4'-0").
FINISHED FOURTH FLOOR ELEVATION (+6'-0").
FINISHED FIFTH FLOOR ELEVATION (+8'-0").
FINISHED SIXTH FLOOR ELEVATION (+10'-0").
FINISHED SEVENTH FLOOR ELEVATION (+12'-0").
FINISHED EIGHTH FLOOR ELEVATION (+14'-0").
FINISHED NINTH FLOOR ELEVATION (+16'-0").
FINISHED TENTH FLOOR ELEVATION (+18'-0").
FINISHED NORTH WING PENTHOUSE FLOOR DECK ELEVATION (+148'-6").
FINISHED NORTH WING PENTHOUSE ROOF DECK ELEVATION (+167'-6").
3. TOP OF FIRST FLOOR STEEL BEAMS = (+0'-6 1/2) U.N.O.
TOP OF SECOND FLOOR STEEL BEAMS = (+2'-6 1/2) U.N.O.
TOP OF THIRD FLOOR STEEL BEAMS = (+4'-6 1/2) U.N.O.
TOP OF FOURTH FLOOR STEEL BEAMS = (+6'-6 1/2) U.N.O.
TOP OF FIFTH FLOOR STEEL BEAMS = (+8'-6 1/2) U.N.O.
TOP OF SIXTH FLOOR STEEL BEAMS = (+10'-6 1/2) U.N.O.
TOP OF SEVENTH FLOOR STEEL BEAMS = (+12'-6 1/2) U.N.O.
TOP OF EIGHTH FLOOR STEEL BEAMS = (+14'-6 1/2) U.N.O.
TOP OF NINTH FLOOR STEEL BEAMS = (+16'-6 1/2) U.N.O.
TOP OF TENTH FLOOR STEEL BEAMS = (+18'-6 1/2) U.N.O.
TOP OF NORTH WING PENTHOUSE ROOF STEEL BEAMS = (+167'-0 1/2) U.N.O.
4. SEE DWGS S-001 & S-002 FOR GENERAL NOTES.
5. SEE DWG S-002 FOR FRAMING TAG NOTES.
6. SEE DWG S-003 FOR SPECIAL INSPECTION NOTES.
7. SEE DWG S-006 FOR DIMENSIONED OVERALL STRUCTURAL BUILDING LAYOUT, INCLUDING ALL KINK/VERTICEX POINTS FOR FACETED GRIDS.
8. SEE S-200 SERIES DRAWINGS FOR COLUMN SCHEDULES.
9. SEE S-400 SERIES DRAWINGS FOR TYPICAL FRAMING DETAILS.
10. SPACE BEAMS EVENLY THROUGHOUT BAY U.N.O.
11. SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE G/S-404 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.
12. REINFORCE SLAB-ON-DECK AT RE-ENTRANT CORNERS PER DETAIL E/S-404.
13. COORDINATE EXACT DIMENSIONS OF SLAB EDGE JOBS W/ ARCHITECTURAL DRAWINGS AND PRECAST CURTAINWALL SHOP DRAWINGS, WHERE CURTAINWALL AND/OR PRECAST CLADDING IS SHOWN BYPASSING E.O.S. THE STRUCTURAL INTENT IS A 2" GAP BETWEEN BACK OF PRECAST CLADDING AND SLAB EDGE, AND A 3/4" GAP FROM BACK OF CURTAINWALL MULLION TO SLAB EDGE U.N.O.

FRAMING LEGEND

- 1.5WR20 = 1 1/2" 20 GA GALVANIZED WIDE RIB STEEL ROOF DECK.
S3.0 = 3" NORMAL WEIGHT CONCRETE REINFORCED WITH 4#4@12" W/W.F. ON 12" LANDING TYP. ON 12" LANDING TYP. WITH 1 1/2" FLANGES. MAX PAN WIDTH = 1'-4".
S5.5 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#6@12" W/W.F. ON 2" 18 GA GALVANIZED VENTED COMPOSITE STEEL FLOOR DECK (5/8" TOTAL THICKNESS).
S6.5 = 4 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#6@12" W/W.F. ON 2" 18 GA GALVANIZED VENTED COMPOSITE STEEL FLOOR DECK (6 1/2" TOTAL THICKNESS).
S9.0 = 6" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#6@12" W/W.F. ON 3" 18 GA GALVANIZED VENTED COMPOSITE STEEL FLOOR DECK (7" TOTAL THICKNESS).
+TOP OF STEEL (BOTTOM OF DECK) SPOT ELEVATION. SLOPE STEEL EVENLY BETWEEN POINTS.
STEEL BEAM SIZE
NUMBER OF SHEAR STUDS, ZERO IF BLANK
SERVICE LOAD REACTION (KIPS) EACH END.
C-3/4" = CAMBER UPWARD AT MIDSPAN (INCHES).
(+2'-5 1/2") = TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
MA = FLANGE PLATE MOMENT CONNECTION. SEE DETAIL A/S-402.
MB = END PLATE MOMENT CONNECTION. SEE DETAIL C/S-402A.
MC = COLLECTOR / DRAG STRUT TENSION CONNECTION. USE FULL DEPTH TYPE I DOUBLE ANGLE CONNECTION. SEE DETAIL B/S-401.
MD = SPECIAL STEEL CONNECTION. SEE DETAILS A/S-406 AND A/S-407.
ME = DIAGONAL BRACING. SEE S-200 SERIES DRAWINGS FOR BRACE ELEVATIONS.
MF = COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL. SEE COLUMN SCHEDULE OR SCREENWALL ELEVATIONS.
MG = HSS6x3x3/8 COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL. SEE DETAIL H/S-423 FOR TOP AND BOTTOM CONNECTIONS.
MH = HSS6x3x3/8 STEEL HANGER BELOW. SEE DETAIL K/S-401 FOR TOP CONNECTION.
MI = HSS4x4x5/16 STEEL HANGER BELOW. SEE SECTIONS.
MJ = 1" THREADED ROD STEEL HANGER BELOW. SEE DETAIL D/S-130 FOR TOP AND BOTTOM CONNECTIONS.
MK = HSS5x5x5/16 STEEL HANGER BELOW. SEE SECTIONS.
ML = CAST-IN-PLACE CONCRETE WALL.
MN = WALL BELOW DECK.
MO = C.F.S. HEADER. SEE C.F.S. SCHEDULE AND TYPICAL DETAILS.
MP = EMBEDDED STEEL PLATE. SEE DETAIL J/S-304.
MQ = STEEL BEARING PLATE. SEE DETAIL H/S-305.
MR = BEAM BOTTOM FLANGE BRACE. SEE DETAIL H/S-404.
MS = CANTILEVER BEAM END. SEE DETAIL F/S-401 U.N.O.
MT = EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE.
MU = ROOF SLOPE.
MV = ROOF DRAIN. SEE DETAIL G/S-404 FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.
MW = FLOOR DRAIN. SEE DET E/S-304. COORDINATE EXACT DRAIN LOCATION & QUANTITY W/ ARCH & M.E.P. DWGS.
W10 = W10x22 (8k). W12 = W12x19 (2k). W14 = W14x22 (15k).
APPROXIMATE LOCATION OF REQUIRED ACCURANT SYSTEM FOR SUPPORT OF BEAMS. THIS IS A PERFORMANCE SPECIFIED (VOLUNTARILY) PROPRIETARY SYSTEM BY HEALTHCARE TECHNOLOGY CORP. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION/REQUIREMENTS. ADJUST OCCURRENCE OF FRAMING IN PLAN CONTAINING THE SYMBOL. THE MAXIMUM DESIGN LOAD FOR THE PRIMARY FLOOR FRAMING AT ANY EQUIPMENT HOOK IS 100 LBS VERTICAL DOWN WITH 160 LBS LEFT HOOK MOMENT ROTATING AROUND THE HORIZONTAL PLANE UNLESS NOTED OTHERWISE. AT TANKS MOUNT THE MAXIMUM DESIGN LOAD FOR THE PRIMARY FLOOR FRAMING IS 2 LBS PER VERTICAL DOWN WITH 10 LBS LEFT HOOK MOMENT ROTATING AROUND THE HORIZONTAL PLANE.
PRECAST CONCRETE CLADDING PANEL ATTACHMENT POINT. SEE DETAIL A/S-406.
TRUE NORTH
PROJECT NORTH
REFERENCE ELEVATION (0'-0") = 1001.5' SEA LEVEL.



301 East Vine Street
Lexington, Kentucky 40507
859.252.6781



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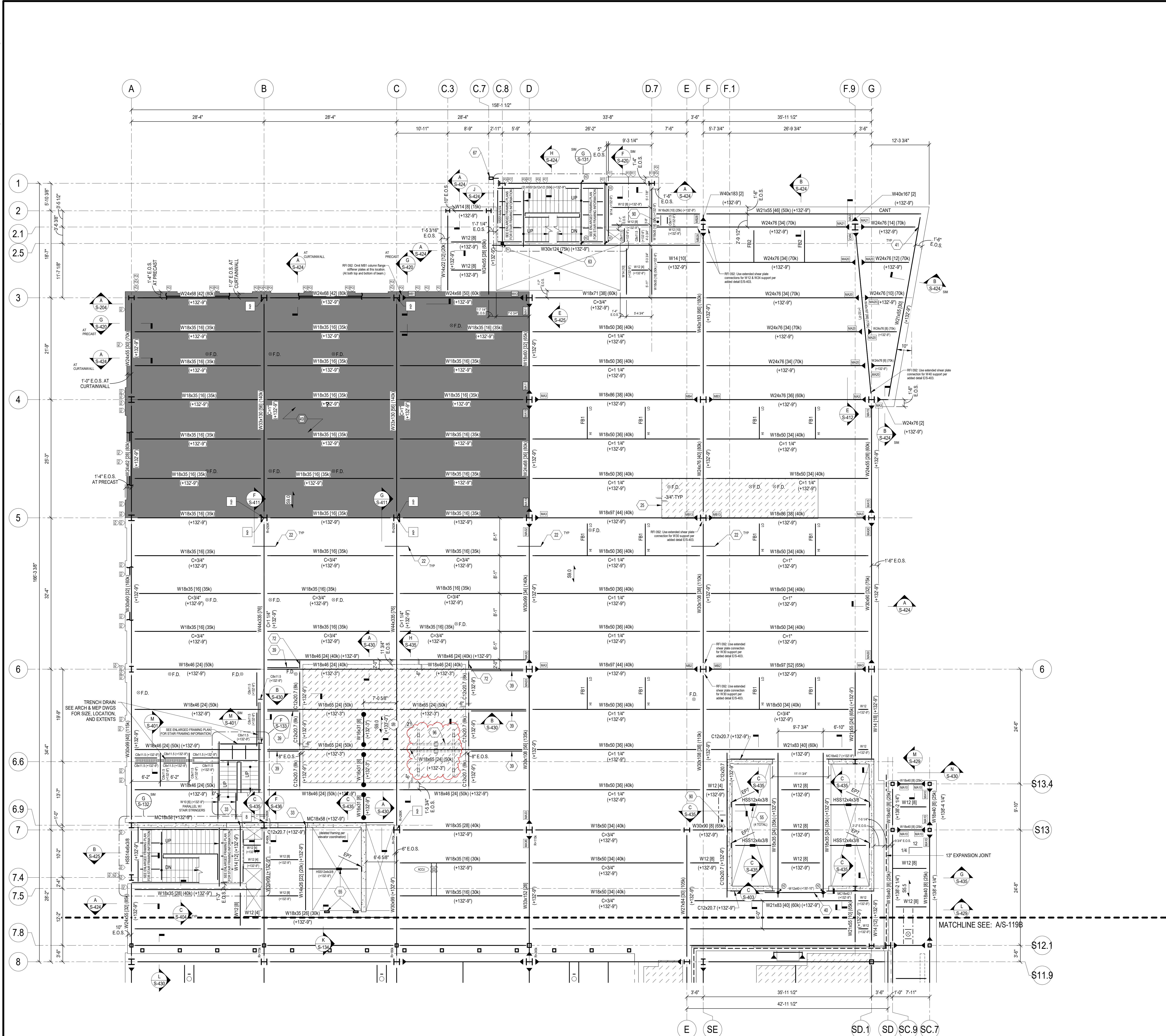
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BP-04F
MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING
UNIVERSITY OF KENTUCKY - BLDG NO. 0724
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



Table with columns: No., Description, Date. Contains revision history for the framing plan.

STRUCTURAL
PROJECT 202170
DATE 05.20.24
FRAMING PLAN - SIXTH FLOOR - AREA A
S-116A
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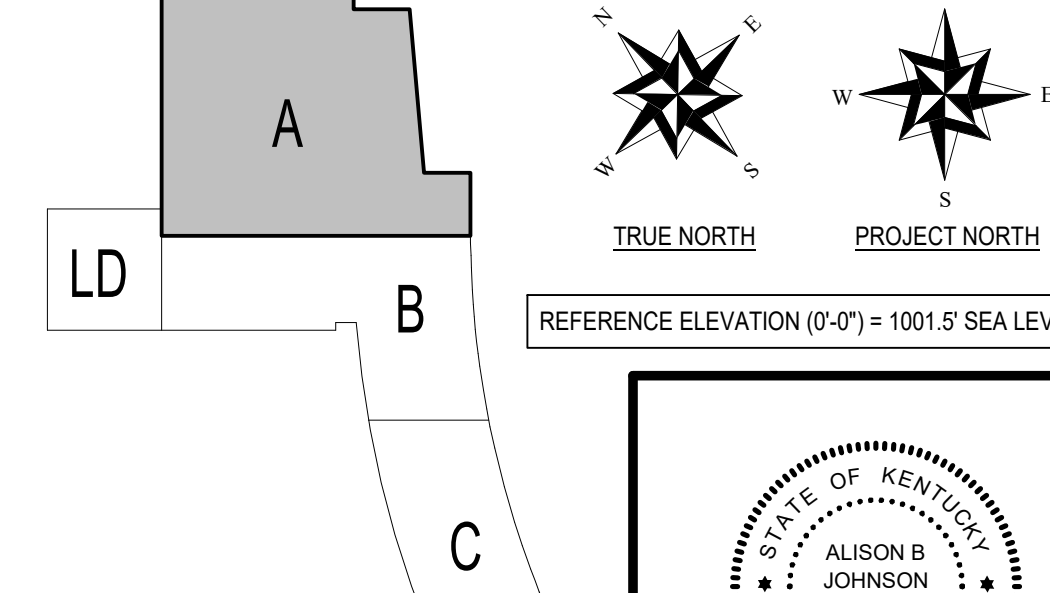


### FRAMING PLAN NOTES

- ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
- FINISHED FIRST FLOOR ELEVATION (+0'-0").  
FINISHED SECOND FLOOR ELEVATION (+2'-0").  
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FINISHED SIXTH FLOOR ELEVATION (+10'-0").  
FINISHED SEVENTH FLOOR ELEVATION (+12'-0").  
FINISHED EIGHTH FLOOR ELEVATION (+14'-0").  
FINISHED NINTH FLOOR ELEVATION (+16'-0").  
FINISHED NORTH WING PENTHOUSE FLOOR ELEVATION (+14'-6").  
FINISHED NORTH WING PENTHOUSE FLOOR DECK ELEVATION (+16'-6").
- TOP OF FIRST FLOOR STEEL BEAMS = (+0'-6 1/2") U.O.  
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TOP OF NINTH FLOOR STEEL BEAMS = (+16'-6 1/2") U.O.  
TOP OF NORTH WING PENTHOUSE FLOOR STEEL BEAMS = (+14'-6 1/2") U.O.  
TOP OF NORTH WING PENTHOUSE ROOF STEEL BEAMS = (+16'-6 1/2") U.O.
- SEE DWGS S-001 & S-002 FOR GENERAL NOTES.
- SEE DWG S-002 FOR FRAMING TAG NOTES.
- SEE DWG S-003 FOR SPECIAL INSPECTION NOTES.
- SEE DWG S-006 FOR DIMENSIONED OVERALL STRUCTURAL BUILDING LAYOUT, INCLUDING ALL KINK/VERTICEX POINTS FOR FACETED GRIDS.
- SEE S-200 SERIES DRAWINGS FOR COLUMN SCHEDULES.
- SEE S-400 SERIES DRAWINGS FOR TYPICAL FRAMING DETAILS.
- SPACE BEAMS EVENLY THROUGHOUT BAY U.O.
- SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE S-404 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.
- REINFORCE SLAB-ON-DECK AT RE-ENTRANCE CORNERS PER DETAIL ES-404.
- COORDINATE EXACT DIMENSIONS OF SLAB EDGE JOBS W/ ARCHITECTURAL DRAWINGS AND PRECAST CLADDING/CURTAINWALL SHOP DRAWINGS, WHERE CURTAINWALL AND/OR PRECAST CLADDING IS SHOWN BYPASSING E.O.S. THE STRUCTURAL INTENT IS A 2" GAP BETWEEN BACK OF PRECAST CLADDING AND SLAB EDGE, AND A 3/4" GAP FROM BACK OF CURTAINWALL MULLION TO SLAB EDGE U.O.

### FRAMING LEGEND

- 1 1/2" 20 GA GALVANIZED WIDE RIB STEEL ROOF DECK.
- 3" NORMAL WEIGHT CONCRETE REINFORCED WITH 4#-W2 2# W.I.F. ON 12" LANDING TRYP ON 12" LANDING TRYP WITH 1 1/2" FLANGES. MAX PAN WIDTH = 1'-4".
- 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#-W2 1# W.I.F. ON 2" 18 GA GALVANIZED VENTED COMPOSITE STEEL FLOOR DECK (5 1/2" TOTAL THICKNESS).
- 4 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#-W2 2# W.I.F. ON 2" 18 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (6 1/2" TOTAL THICKNESS).
- 6" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#-W4 (W.I.F.) ON 3" 18 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (7" TOTAL THICKNESS).
- TOP OF STEEL (BOTTOM OF DECK) SPOT ELEVATION. SLOPE STEEL EVENLY BETWEEN POINTS.
- STEEL BEAM SIZE.
- NUMBER OF SHEAR STUDS. ZERO IF BLANK.
- SERVICE LOAD REACTION (KIPS) EACH END.
- CAMBER UPWARD AT MIDSPAN (INCHES).
- TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
- FLANGE PLATE MOMENT CONNECTION. SEE DETAIL AS-402.
- END PLATE MOMENT CONNECTION. SEE DETAIL CS-402A.
- COLLECTOR / DRAG STRUT TENSION CONNECTION. USE FULL DEPTH TYPE 1 DOUBLE ANGLE CONNECTION. SEE DETAIL BS-401.
- SPECIAL STEEL CONNECTION. SEE DETAILS AS-406 AND AS-407.
- DIAGONAL BRACING. SEE S-200 SERIES DRAWINGS FOR BRACE ELEVATIONS.
- COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL. SEE COLUMN SCHEDULE OR SCREENWALL ELEVATIONS.
- HSS5x3x3/8 COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL. SEE DETAIL HS-425 FOR TOP AND BOTTOM CONNECTIONS.
- HSS5x3x3/8 STEEL HANGER BELOW. SEE DETAIL KS-401 FOR TOP CONNECTION.
- HSS4x4x5/16 STEEL HANGER BELOW. SEE SECTIONS.
- 1" THREADED ROD STEEL HANGER BELOW. SEE DETAIL DS-130 FOR TOP AND BOTTOM CONNECTIONS.
- HSS5x5x5/16 STEEL HANGER BELOW. SEE SECTIONS.
- CAST-IN-PLACE CONCRETE WALL.
- WALL BELOW DECK.
- C F S. HEADER. SEE C F S. SCHEDULE AND TYPICAL DETAILS.
- EMBEDDED STEEL PLATE. SEE DETAIL JS-304.
- STEEL BEARING PLATE. SEE DETAIL HS-305.
- BEAM BOTTOM FLANGE BRACE. SEE DETAIL HS-404.
- CANTILEVER BEAM END. SEE DETAIL FIS-401 U.O.
- EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE.
- ROOF SLOPE.
- ROOF DRAIN. SEE DETAIL GS-404 FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.
- FLOOR DRAIN. SEE DET ES-304. COORDINATE EXACT DRAIN LOCATION & QUANTITY W/ ARCH & M.E.P. DWGS.
- APPROXIMATE LOCATION OF REQUIRED ACCUMULANT SYSTEM FOR SUPPORT OF BEAMS. THIS IS A PRELIMINARY RECOMMENDATION. THE CONTRACTOR SHALL CONSULT WITH THE DESIGNER FOR THE FINAL DESIGN. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION. ADJUST OCCUR ON OCCASION OF CHANGES TO THE PLAN CONTAINING THE SYMBOL. THE MAXIMUM DESIGN LOAD FOR THE PRIMARY FLOOR FRAMING AT ANY EQUIPMENT MOUNT IS 100 LBS PER SQ FT. THE MAXIMUM DESIGN LOAD FOR THE SECONDARY FLOOR FRAMING IS 200 LBS PER SQ FT. THE MAXIMUM DESIGN LOAD FOR THE ROOF FRAMING IS 20 LBS PER SQ FT. THE MAXIMUM DESIGN LOAD FOR THE ROOF FRAMING IS 20 LBS PER SQ FT. THE MAXIMUM DESIGN LOAD FOR THE ROOF FRAMING IS 20 LBS PER SQ FT. THE MAXIMUM DESIGN LOAD FOR THE ROOF FRAMING IS 20 LBS PER SQ FT.
- PRECAST CONCRETE CLADDING PANEL ATTACHMENT POINT. SEE DETAIL AS-408.



FRAMING PLAN - NINTH FLOOR - AREA A

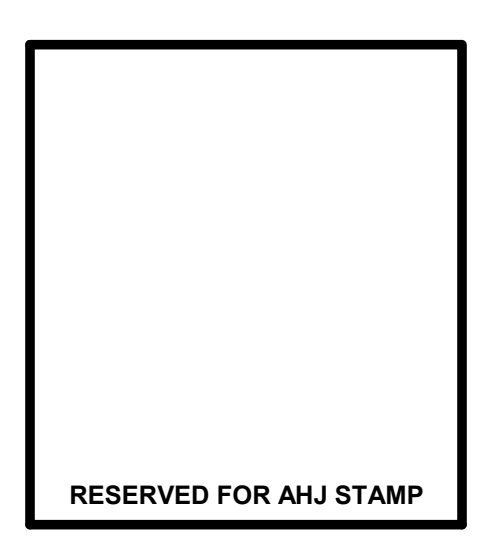
REFERENCE TRADE CONTRACTS FOR SCOPE INCLUDED IN BID PACKAGE BP-03. ALL OTHER INFORMATION SHOWN FOR REFERENCE ONLY. COLD-FORM STEEL STUD FRAMING IS FOR GENERAL REFERENCE ONLY AND IS NOT FOR CONSTRUCTION (NOR BID) BASED ON BP-03 DOCUMENTS.



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**BP-04F**  
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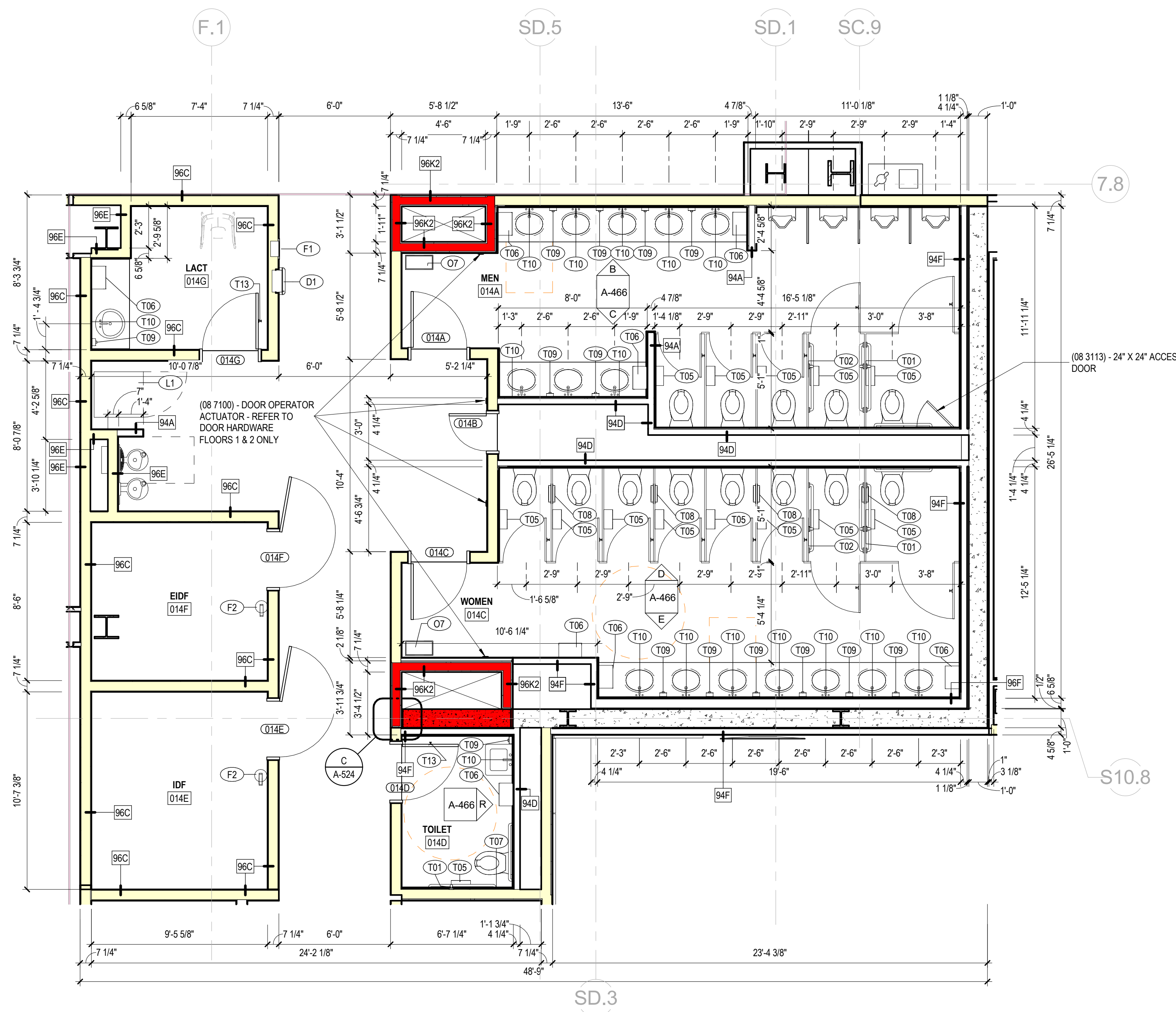


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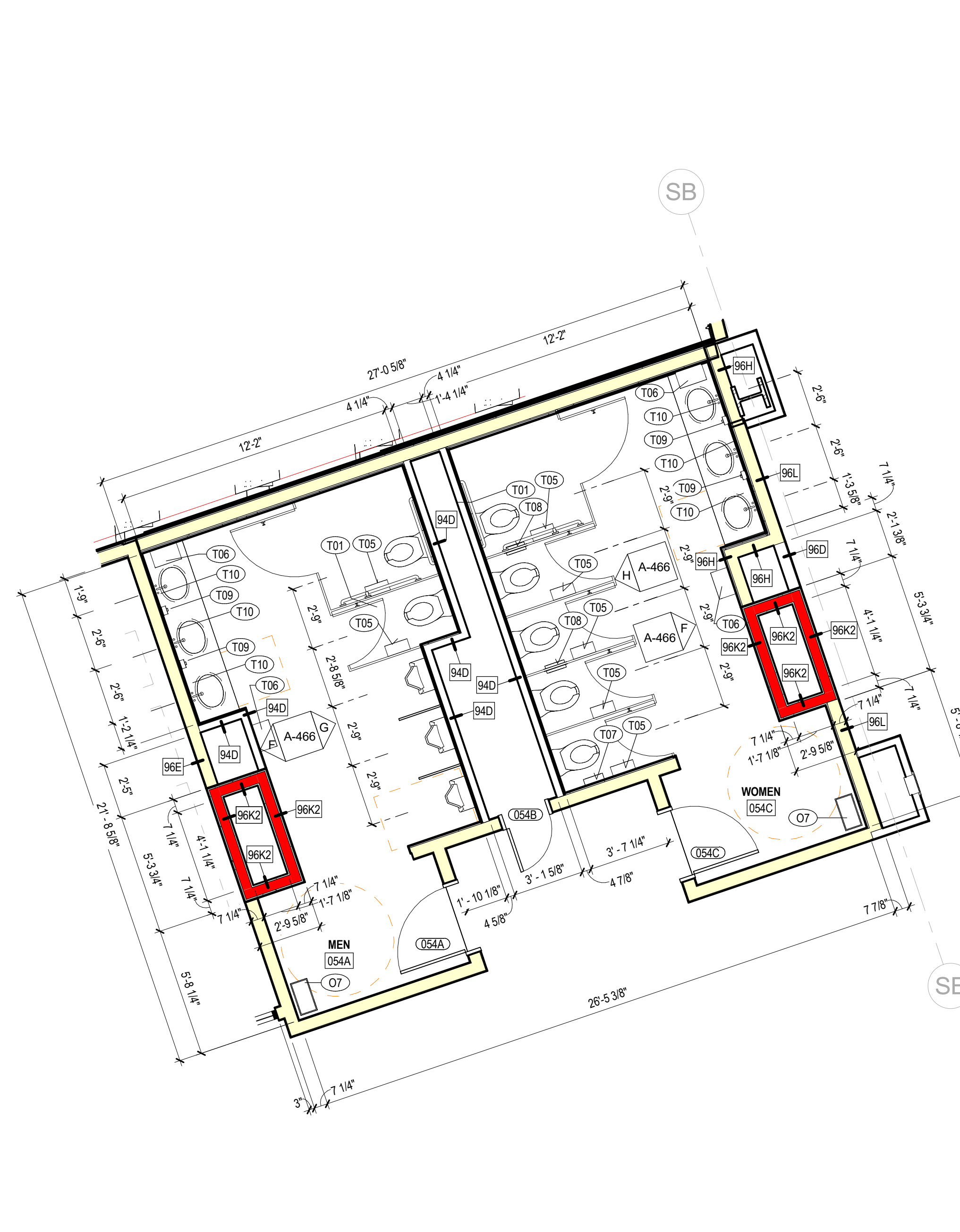
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DATE	05.20.24	
REVISIONS		
No.	Description	Date
8	BP-03 - AS3 1	06/07/24
9	BP-03 - AS3 2	06/16/24
10	BP-03 - PCO 013	08/05/24
11	BP-04 - AS3 2	08/20/24
12	BP-03 - PCO 016	08/20/24
13	BP-03 - AS3 8	08/20/24
14	BP-03 - PCO 018	09/13/24
17	M. Conn. Edb. - PCO 018	09/13/24
21	BP-04F - AS3 2	10/22/24

FRAMING PLAN - NINTH FLOOR - AREA A  
**S-119A**  
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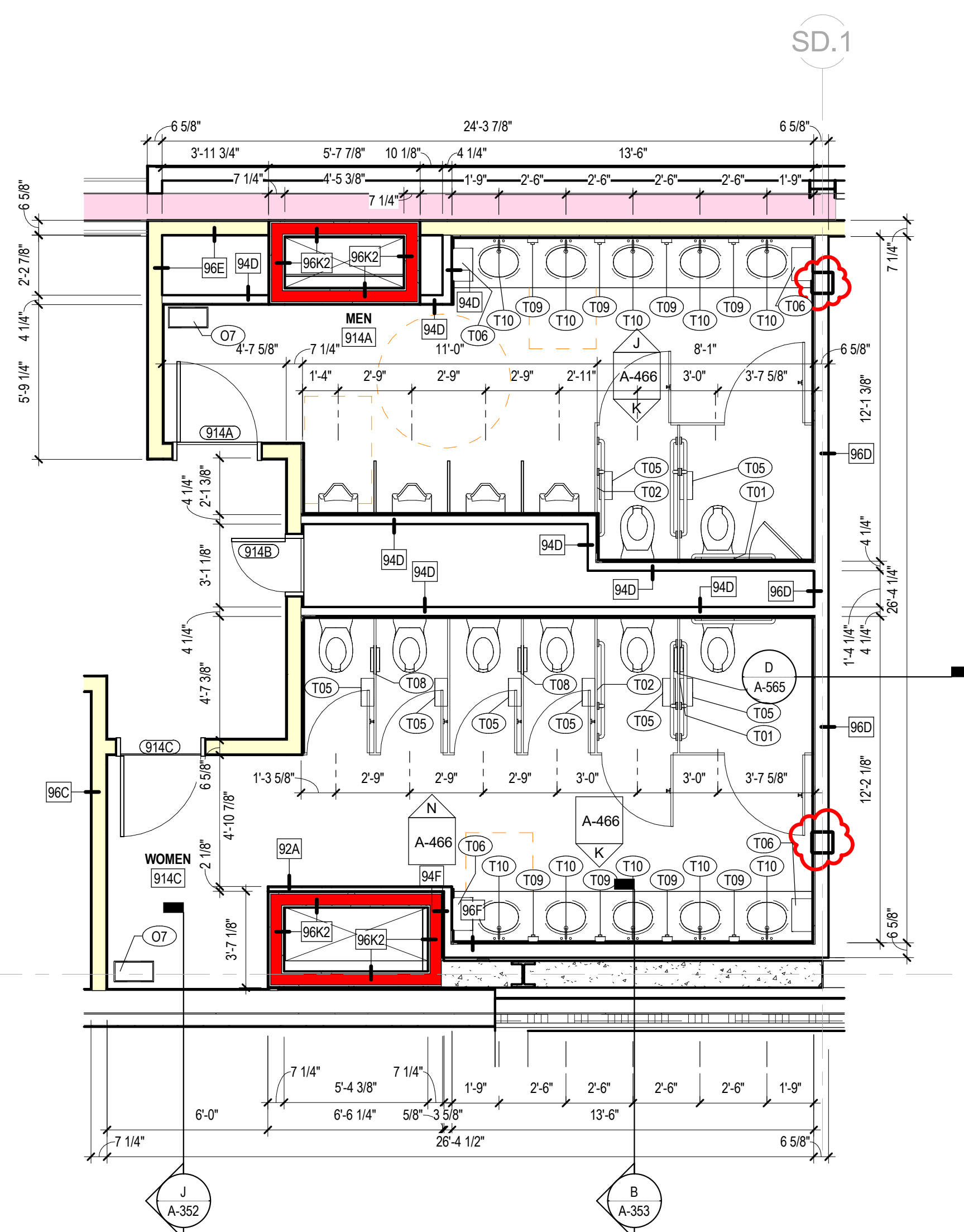




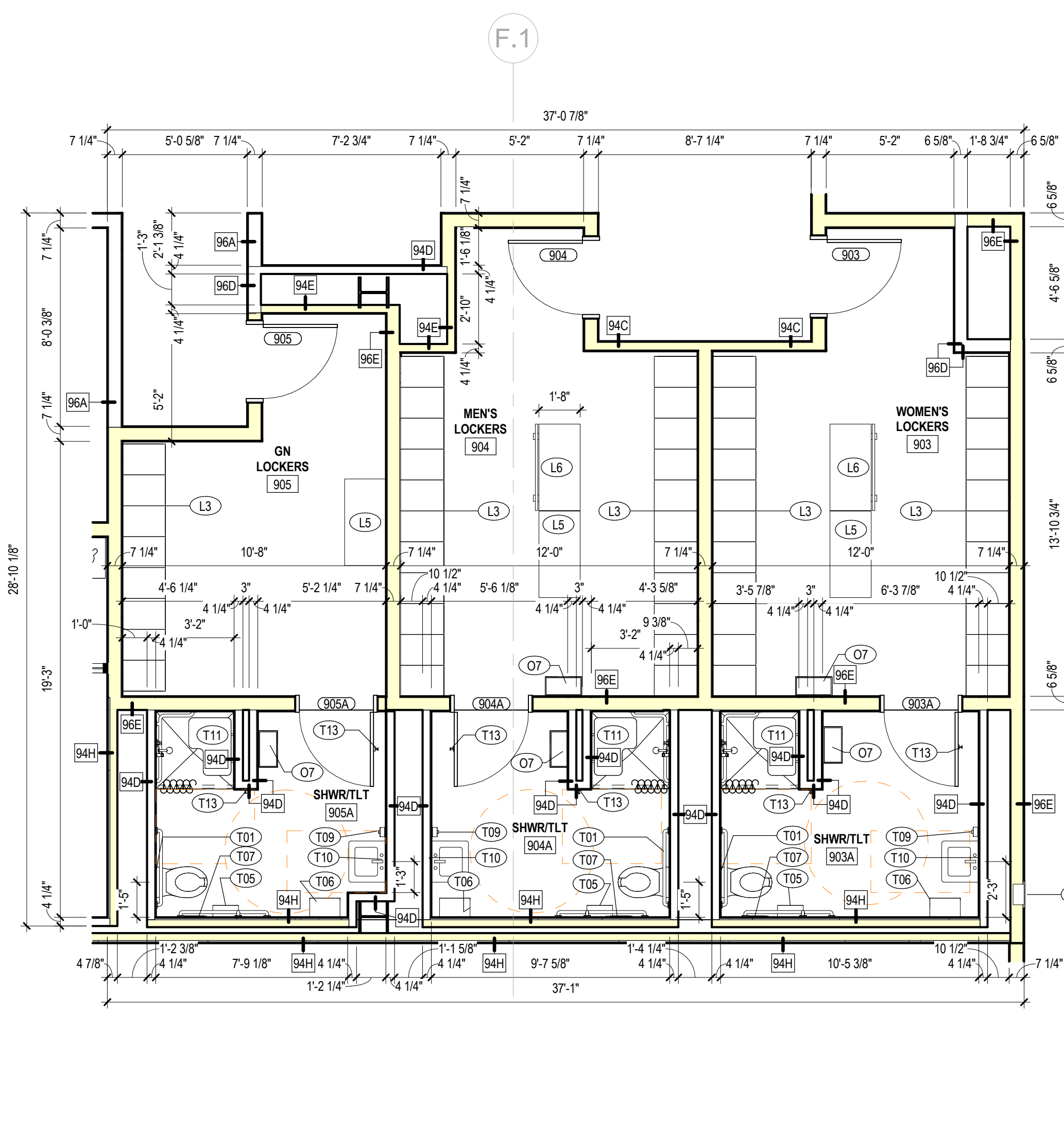
**A ENLARGED PLAN - RESTROOMS**  
1/4" = 1'-0"



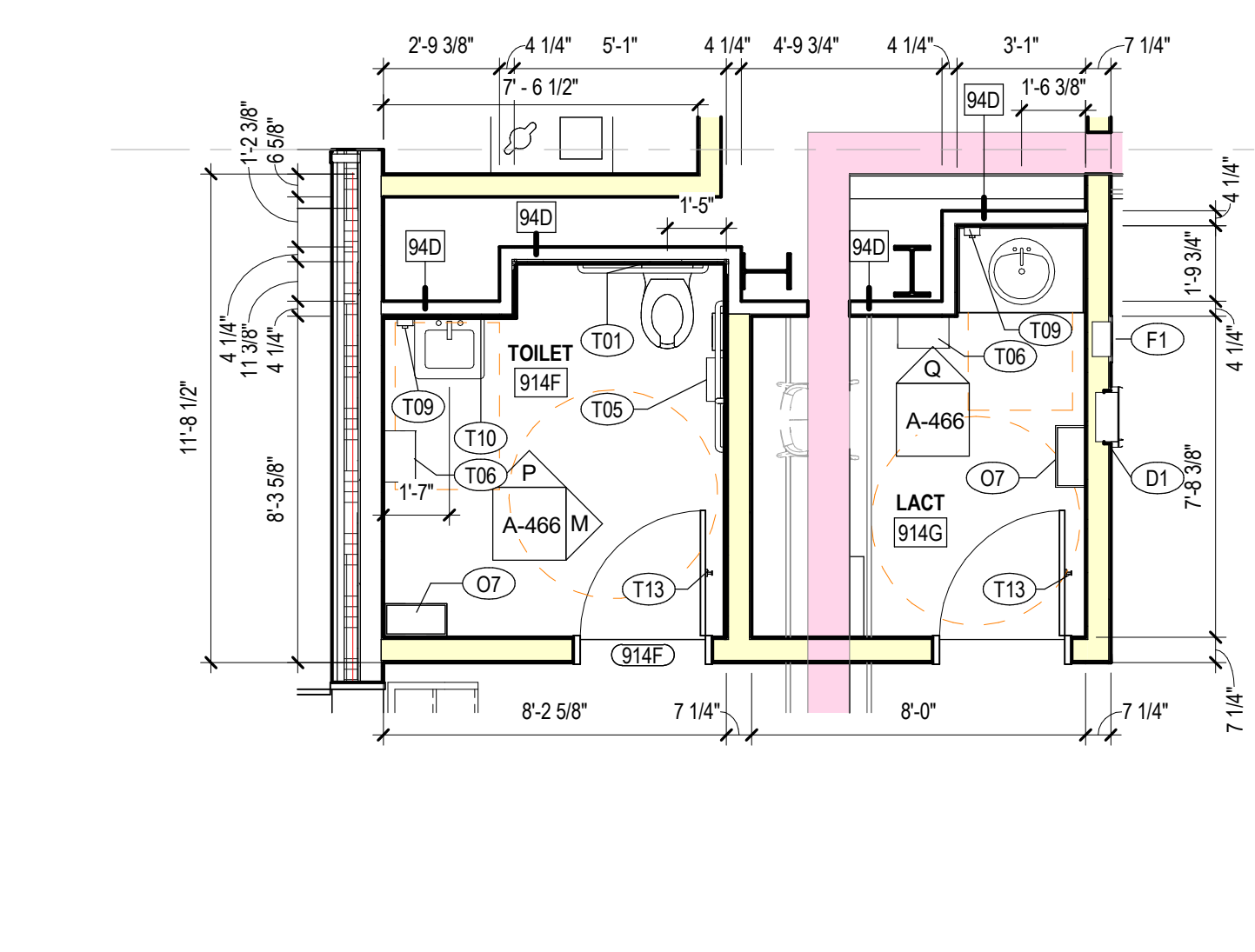
**B ENLARGED PLAN - RESTROOMS**  
1/4" = 1'-0"



**C ENLARGED PLAN - RESTROOMS**  
1/4" = 1'-0"



**D ENLARGED PLAN - LOCKER ROOMS**  
1/4" = 1'-0"



**E ENLARGED PLAN - TOILET & LACTATION**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (8' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED, 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED, 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.C.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O1	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPPER	O.F.C.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.C.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.C.I.	
O6	UK WASTE RECEPTACLE - RESTROOM	O.F.C.I.	



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EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT 202170  
DATE 08.29.24

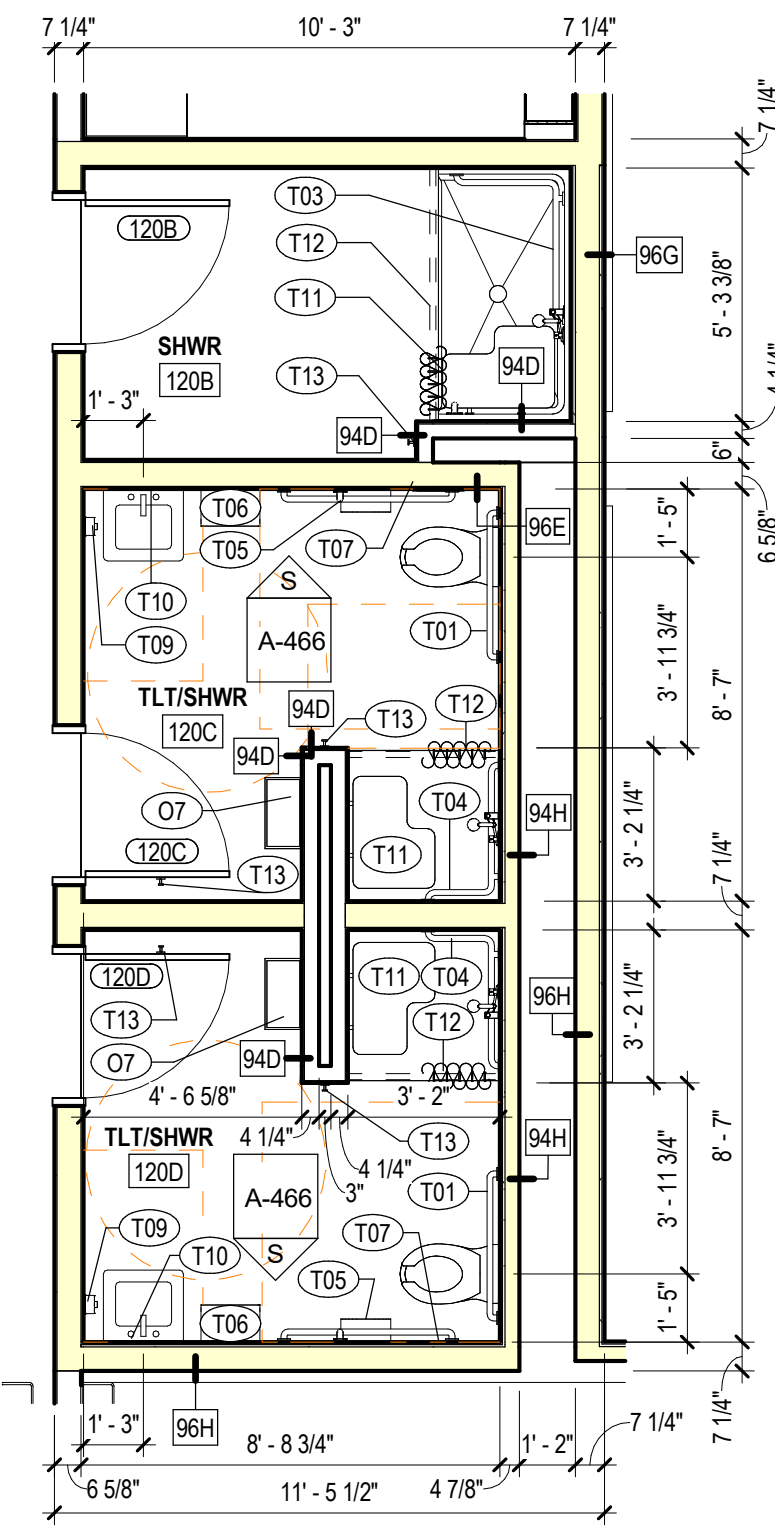
REVISIONS		
No.	Description	Date
1	UNRESOLVED	Date 1

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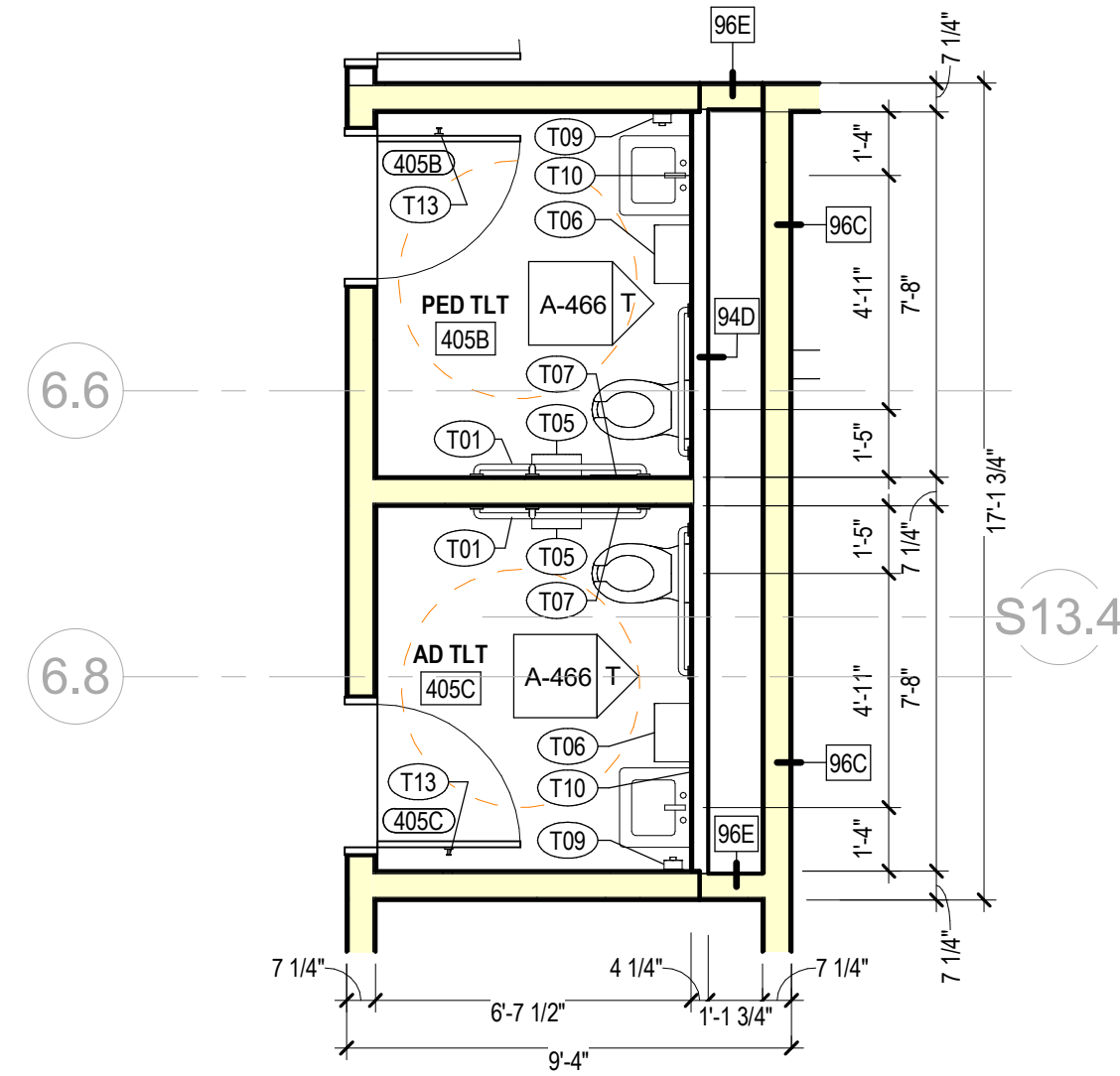
**ENLARGED RESTROOM PLANS**

**A-401**

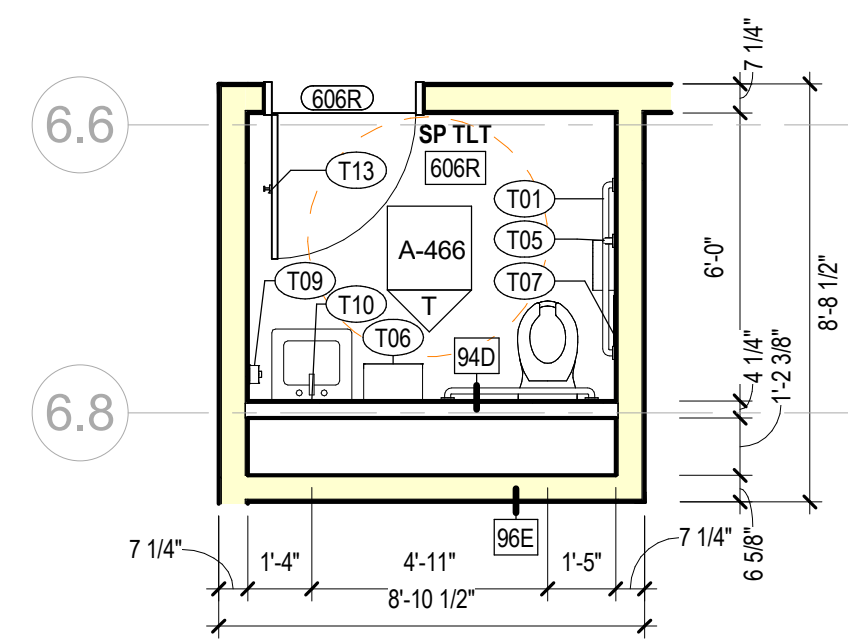
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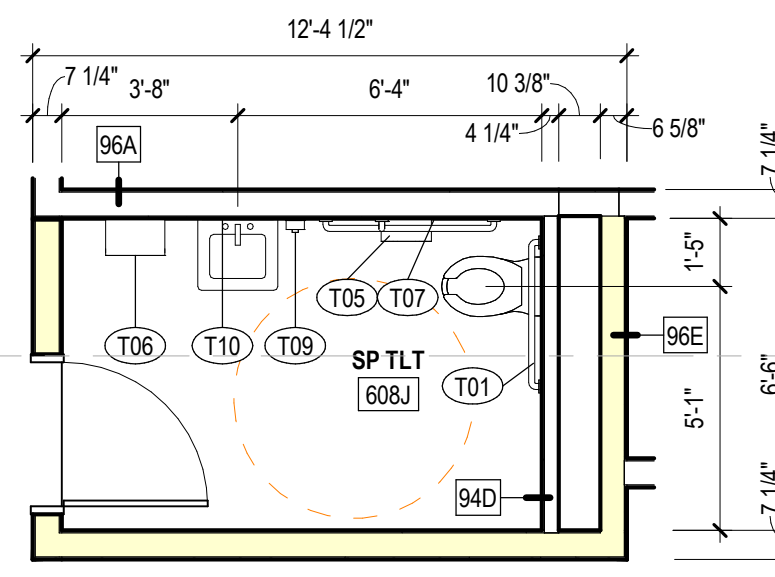
**A ENLARGED PLAN - TLT/SHWR**  
1/4" = 1'-0"



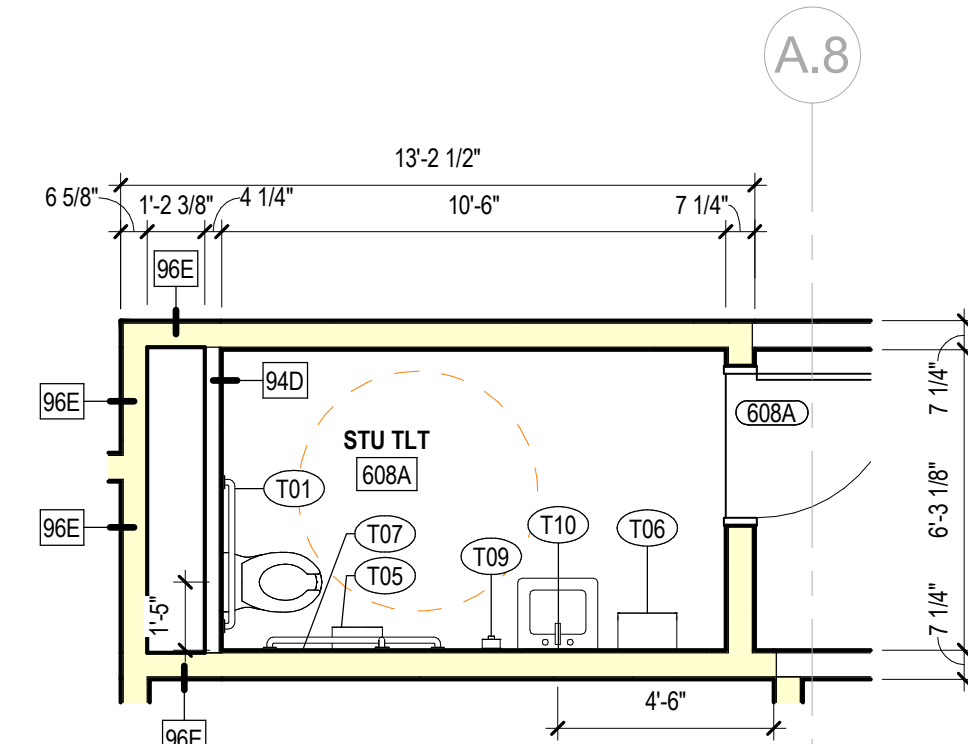
**B ENLARGED RESTROOM PLAN**  
1/4" = 1'-0"



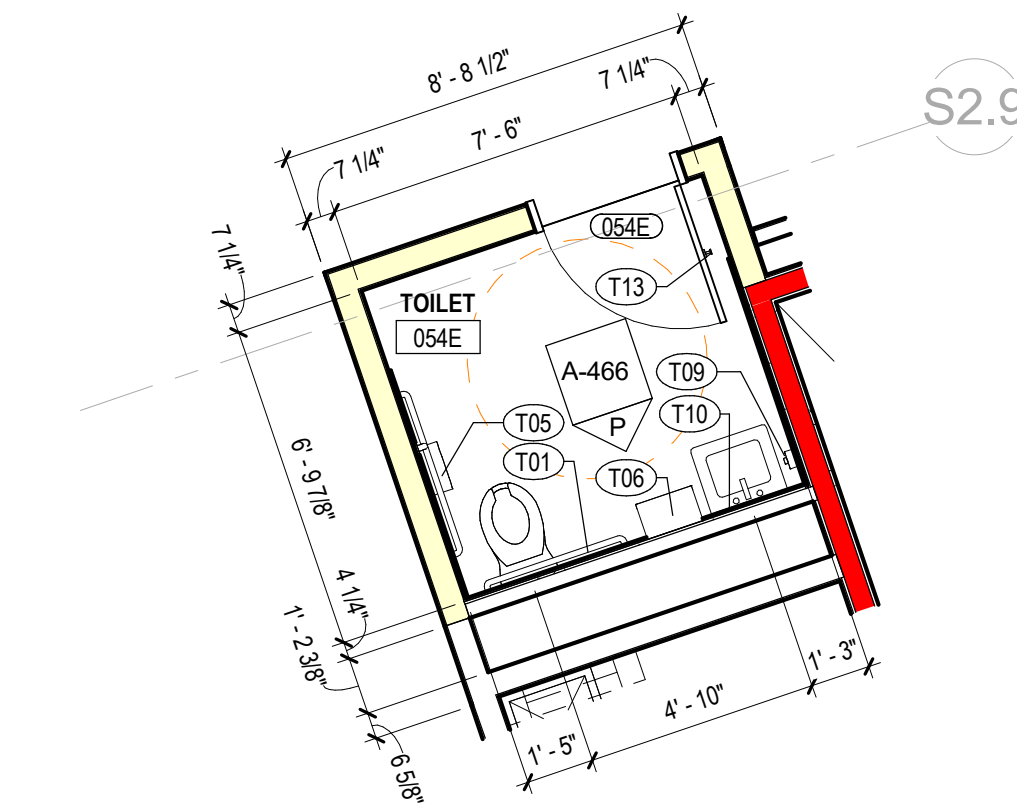
**C ENLARGED TOILET PLAN**  
1/4" = 1'-0"



**D ENLARGED TOILET PLAN**  
1/4" = 1'-0"



**E ENLARGED TOILET PLAN**  
1/4" = 1'-0"



**F ENLARGED TOILET PLAN**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 9') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 8') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (8' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED: 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED: 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER MOUNTED	O.F.O.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.O.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.O.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER 3 OR 2 STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-GLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPIER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

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MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT 202170

DATE 08.29.24

**REVISIONS**

No.	Description	Date

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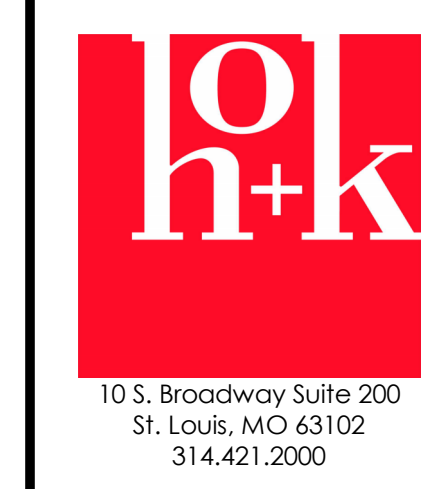
**ENLARGED RESTROOM PLANS**

**A-402**

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ARCHITECTURAL

PROJECT 202170  
DATE 08.29.24

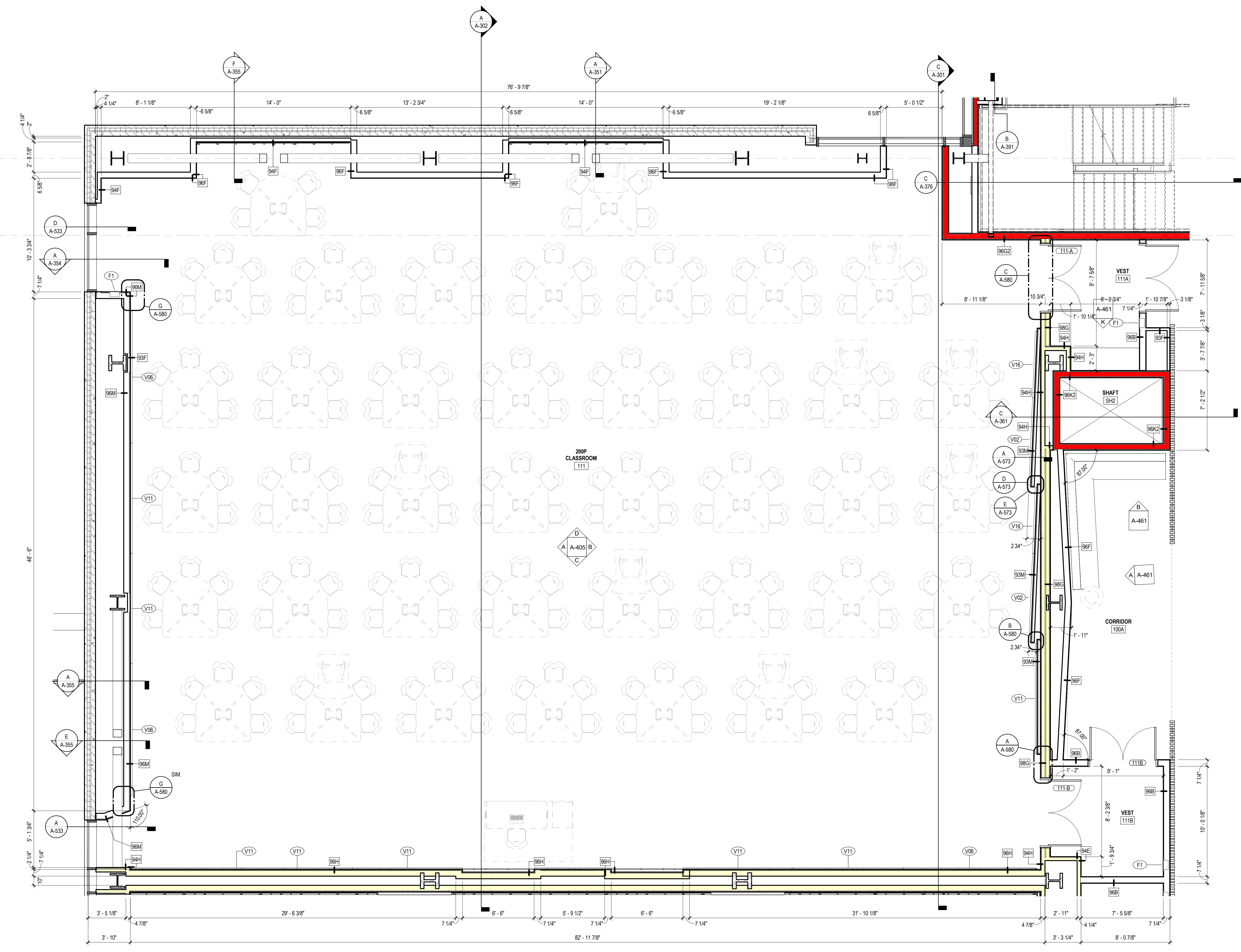
REVISIONS table with columns: No., Description, Date

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ENLARGED PLAN - 200P CLASSROOM 111

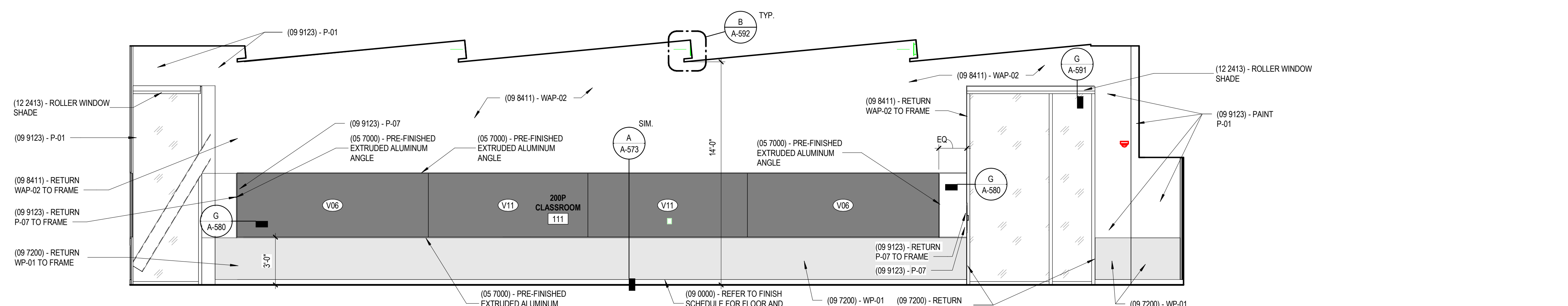
A-403

SPECIALTIES & EQUIPMENT SCHEDULE table with columns: MARK, DESCRIPTION, PROVIDED BY, COMMENTS. Lists items like marker boards, partitions, fire equipment, lockers, etc.

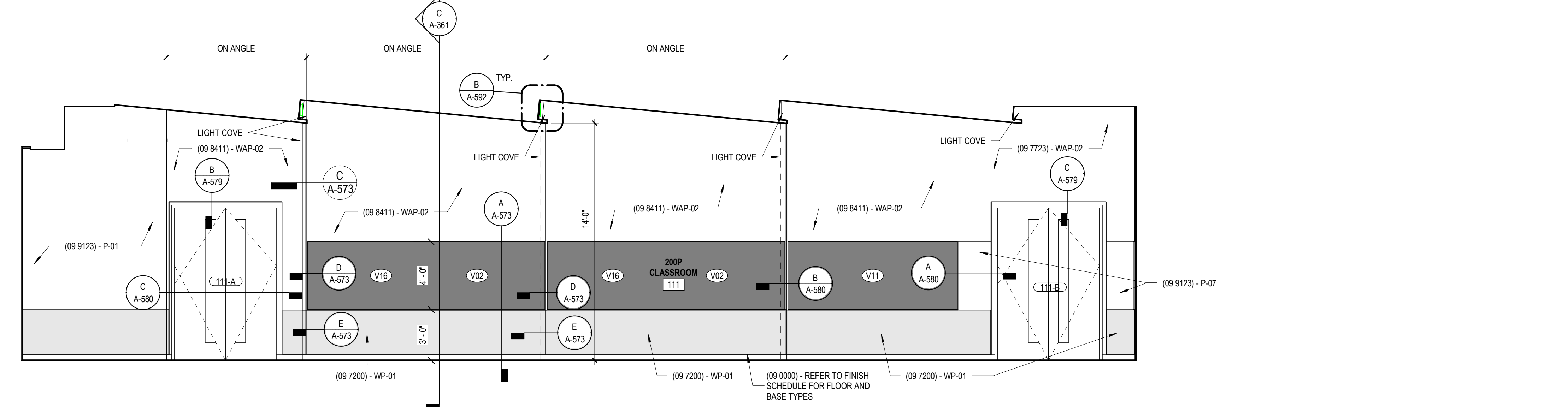


ENLARGED PLAN - 200P CLASSROOM 111  
1/4" = 1'-0"

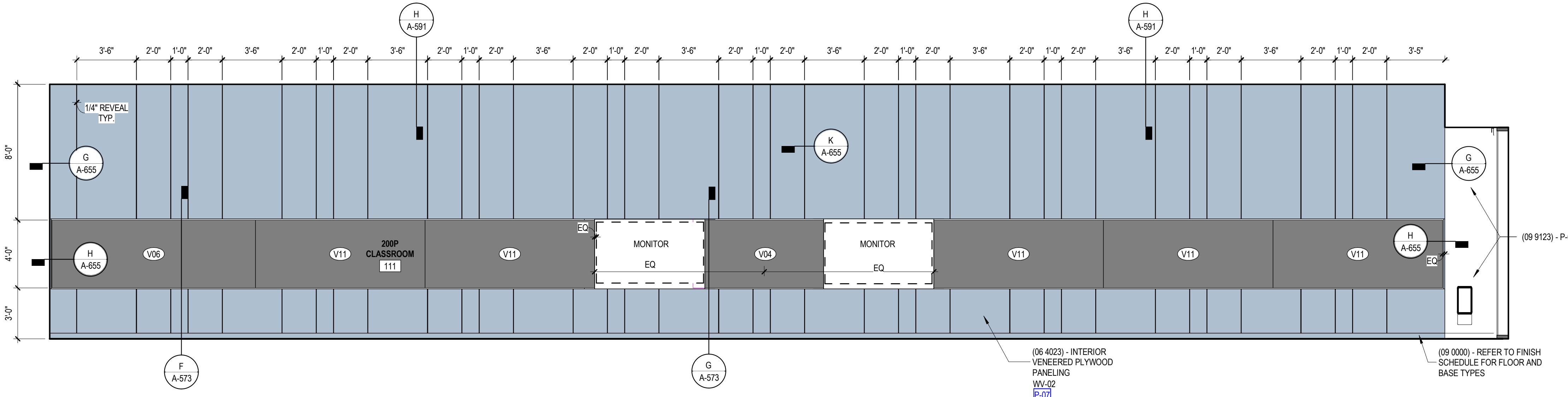




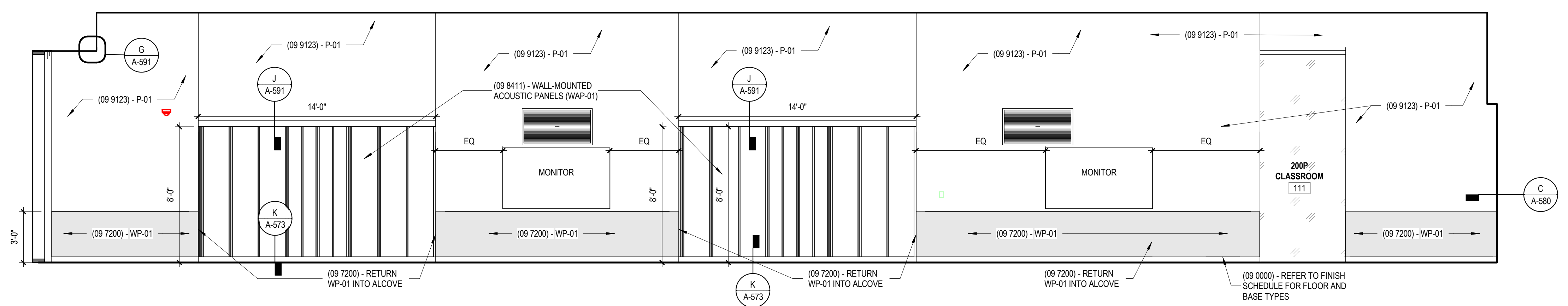
**A** INTERIOR ELEVATION 200P CLASSROOM 111  
1/4" = 1'-0"



**B** INTERIOR ELEVATION - 200P CLASSROOM 111  
1/4" = 1'-0"



**C** INTERIOR ELEVATION - 200P CLASSROOM 111  
1/4" = 1'-0"



**D** INTERIOR ELEVATION - 200P CLASSROOM 111  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (6' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2299 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED, 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED, 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	ADA CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC-LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
EQN-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	IE WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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**ARCHITECTURAL**

PROJECT 202170  
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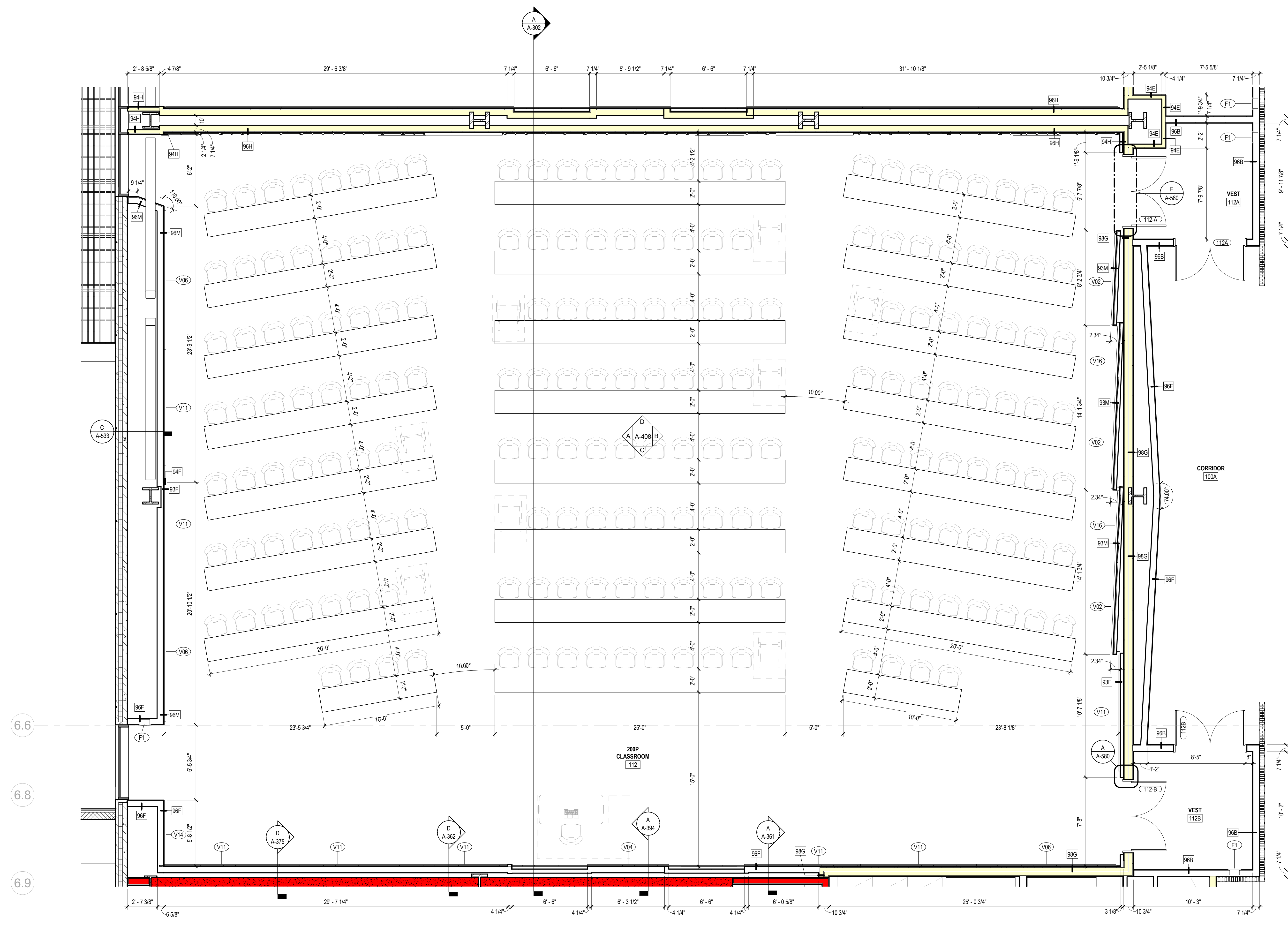
**REVISIONS**

No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART FOR ANY FUTURE PROJECT OTHER THAN THIS PROJECT. THE CLIENT AGREES NOT TO DISSEMINATE THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

**INTERIOR ELEVATIONS - 200P CLASSROOM 111**

**A-405**  
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**A ENLARGED PLAN - 200P CLASSROOM 112**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (6' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED, 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED, 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.O.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.O.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	UK WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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BP-04F

MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT 202170  
DATE 08.29.24

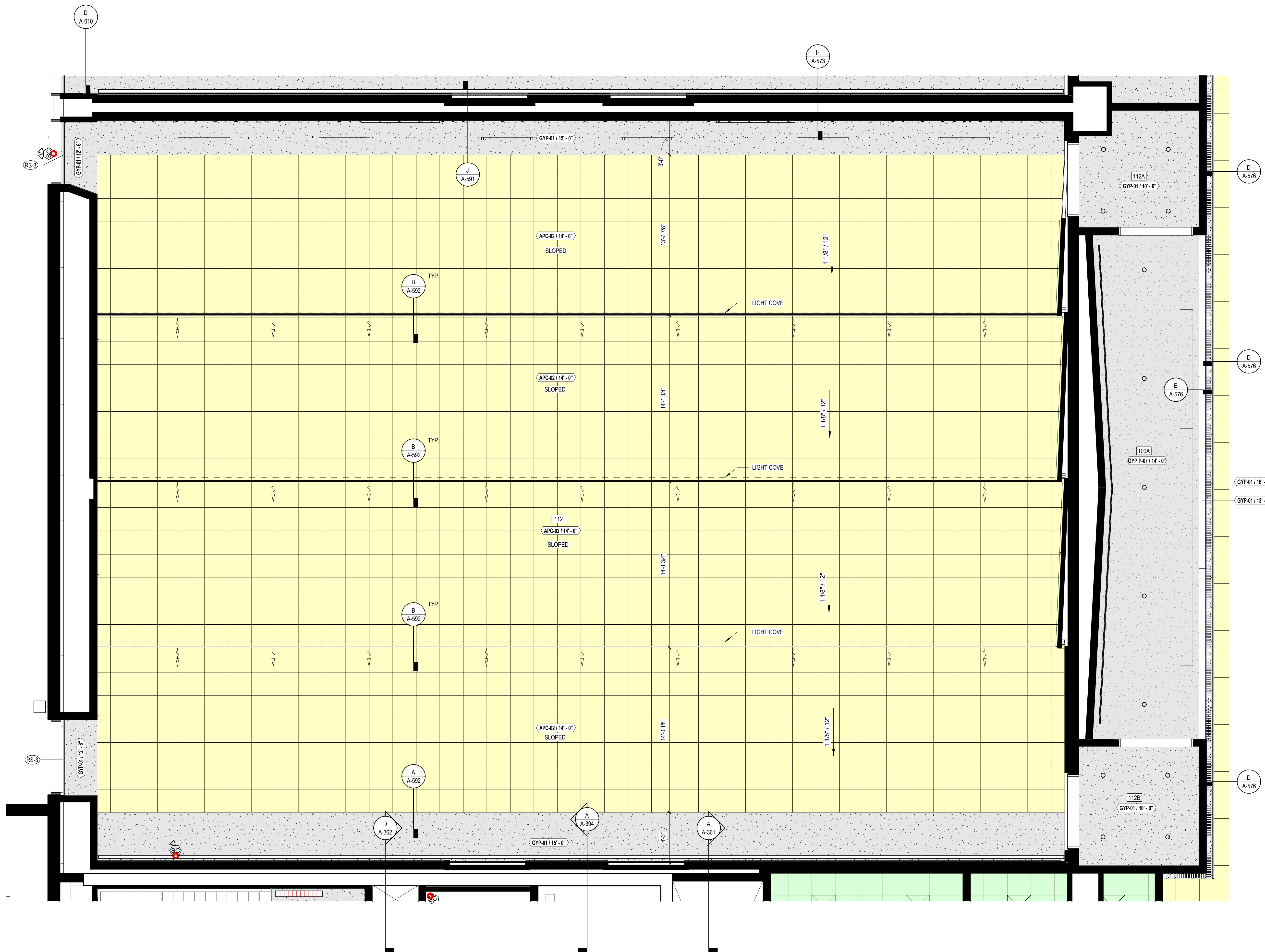
REVISIONS		
No.	Description	Date

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**ENLARGED PLAN - 200P CLASSROOM 112**

**A-406**

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**A ENLARGED RCP - 200P CLASSROOM 112**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
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V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V10	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V11	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
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V13	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
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V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2299 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
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T04	GRAB BAR - L SHAPED: 18" x 36"	C.F.C.I.	
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T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	C.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
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RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	IE WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

CEILING TYPES	
TYPE	DESCRIPTION
APC-01	2' x 2' ACOUSTICAL PANEL SYSTEM (09 5113)
APC-02	2' x 2' ACOUSTICAL PANEL SYSTEM - CONCEALED GRID (09 5113)
APC-03	2' x 2' ACOUSTICAL PANEL SYSTEM - HUMIDITY RESISTANT (09 5113)
APC-04	2' x 2' ACOUSTICAL PANEL SYSTEM - HEALTH (09 5113)
APC-05	2' x 2' ACOUSTICAL PANEL SYSTEM - CERAMAMGUARD (09 5113)
EXP.	EXPOSED STRUCTURE. REFER TO RCP FOR PAINT
GYP-P-03	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 03
GYP-P-04	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 04
GYP-P-05	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 05
GYP-P-06	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 06
GYP-P-07	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 07
GYP-P-08	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 08
GYP-P-09	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 09
GYP-P-10	5/8" GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-P-11	5/8" MOLD & MOISTURE RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-P-12	5/8" MOLD & MOISTURE RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-2HR	2 HR RATED HORIZONTAL ASSEMBLY
MBC-01	METAL BAFFLE CEILING (09 5000)
MPC-01	METAL PERFORATED METAL PANEL CEILING - (XX XXXX)
SAC-01	SOUND ABSORBING CEILING BAFFLES (09 5113)
WPC-01	LINEAR WOOD PANEL CEILING (09 5426)
WPC-02	WOOD PANEL CEILING (09 5426)



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**BP-04F**

**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT 202170  
DATE 08.29.24

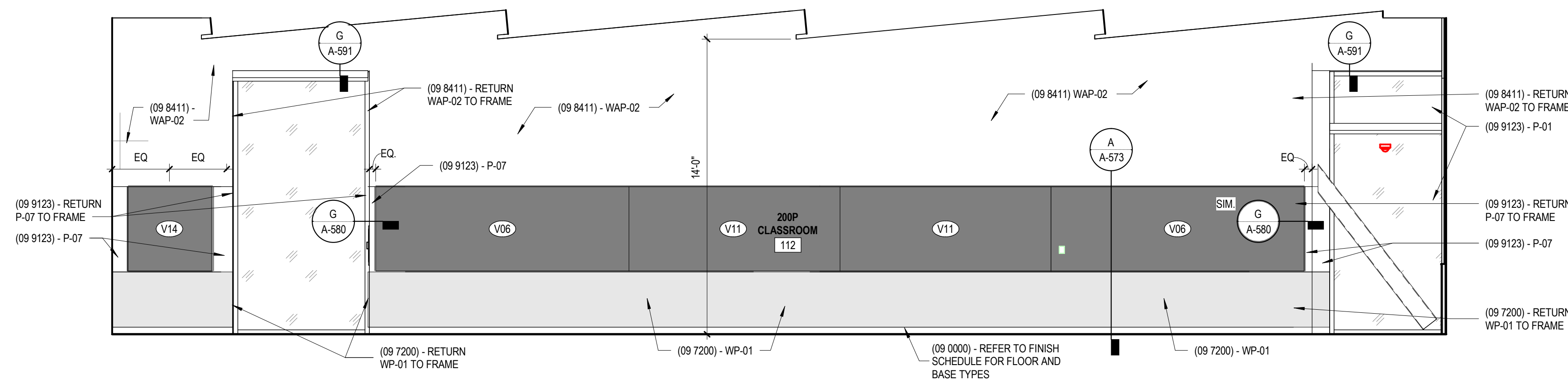
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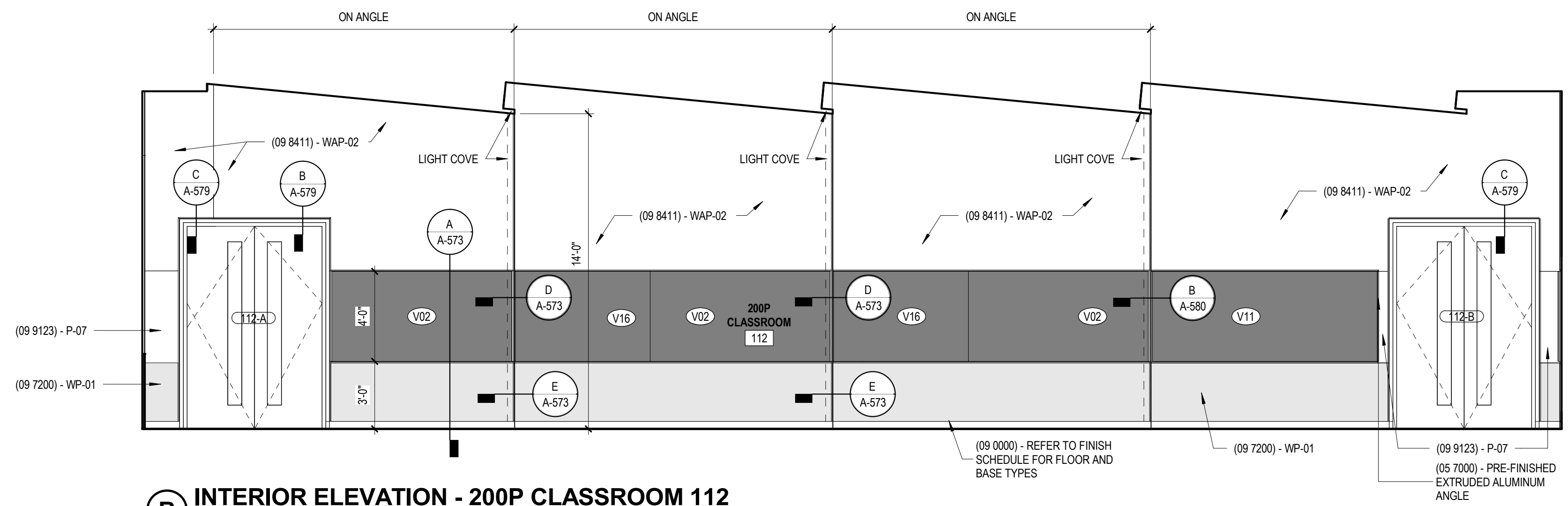
**ENLARGED RCP - 200P CLASSROOM 112**

**A-407**

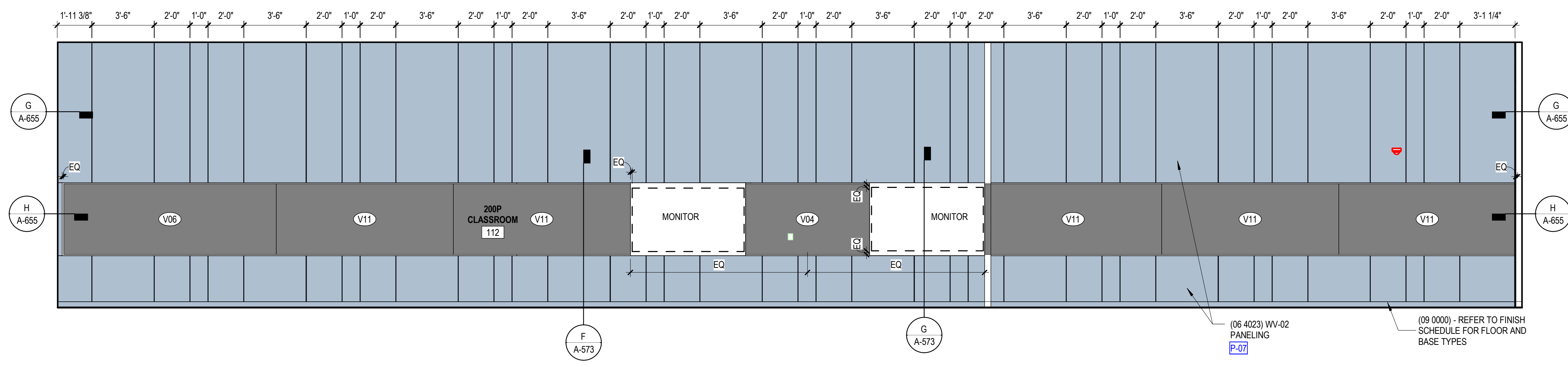
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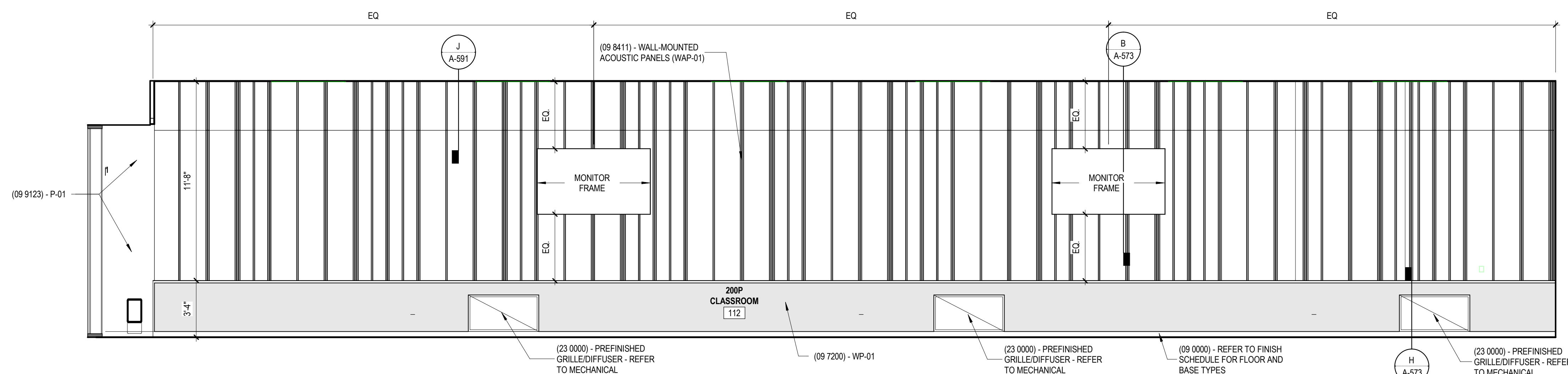
**A INTERIOR ELEVATION - 200P CLASSROOM 112**  
1/4" = 1'-0"



**B INTERIOR ELEVATION - 200P CLASSROOM 112**  
1/4" = 1'-0"



**C INTERIOR ELEVATION - 200P CLASSROOM 112**  
1/4" = 1'-0"



**D INTERIOR ELEVATION - 200P CLASSROOM 112**  
1/4" = 1'-0"

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FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
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CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
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T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED, 27" x 36"	C.F.C.I.	
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T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
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T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	ADA CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEBRILLATOR CABINETS</b>			
D1	DEBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
 UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
 1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT 202170  
DATE 08.29.24

REVISIONS		
No.	Description	Date

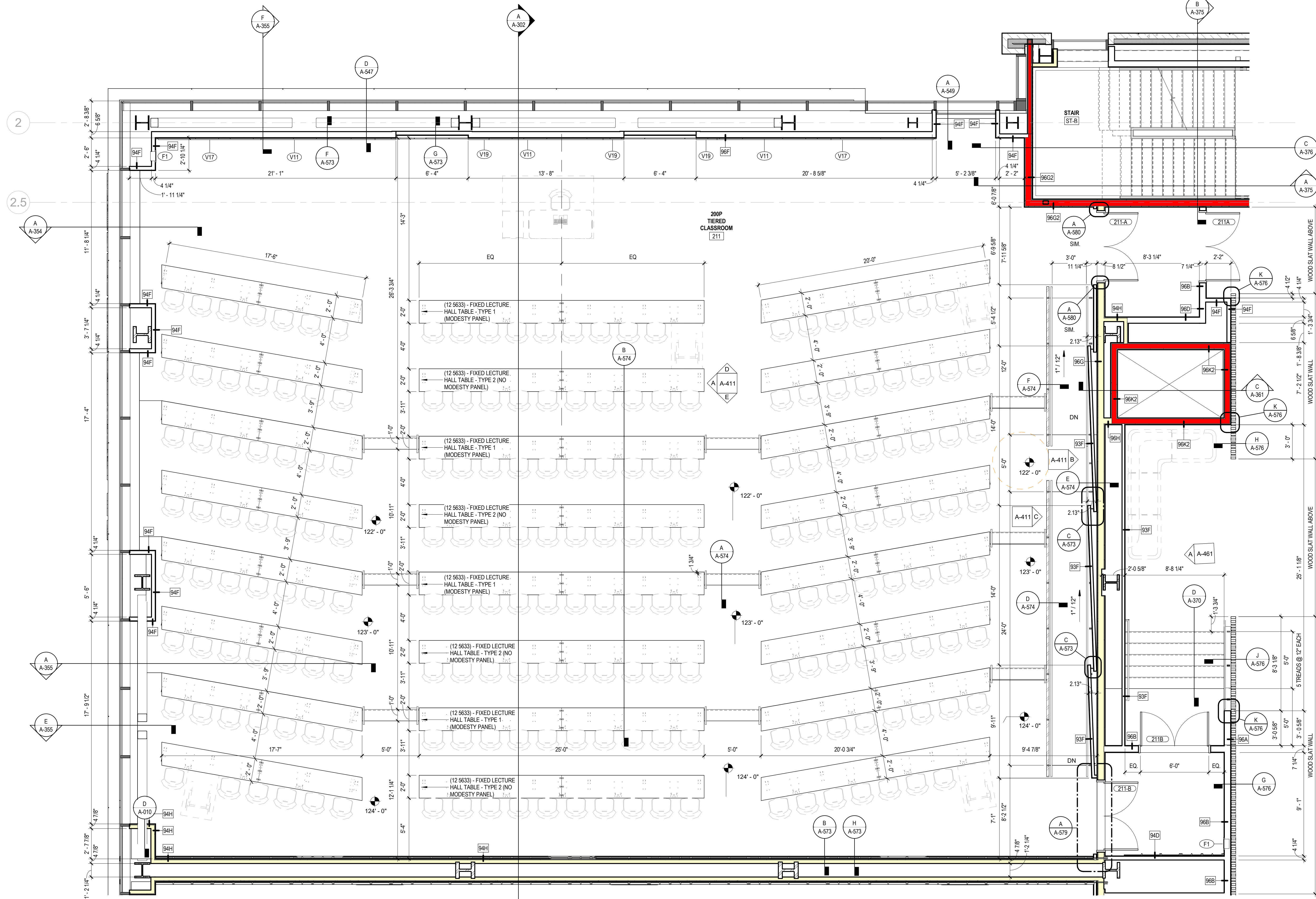
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**INTERIOR ELEVATIONS - 200P CLASSROOM 112**

**A-408**

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**(A) ENLARGED PLAN - 200 P TIERED CLASSROOM 211**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 9') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (6' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEBRILLATOR CABINETS</b>			
D1	DEBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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ARCHITECTURAL

PROJECT 202170

DATE 08.29.24

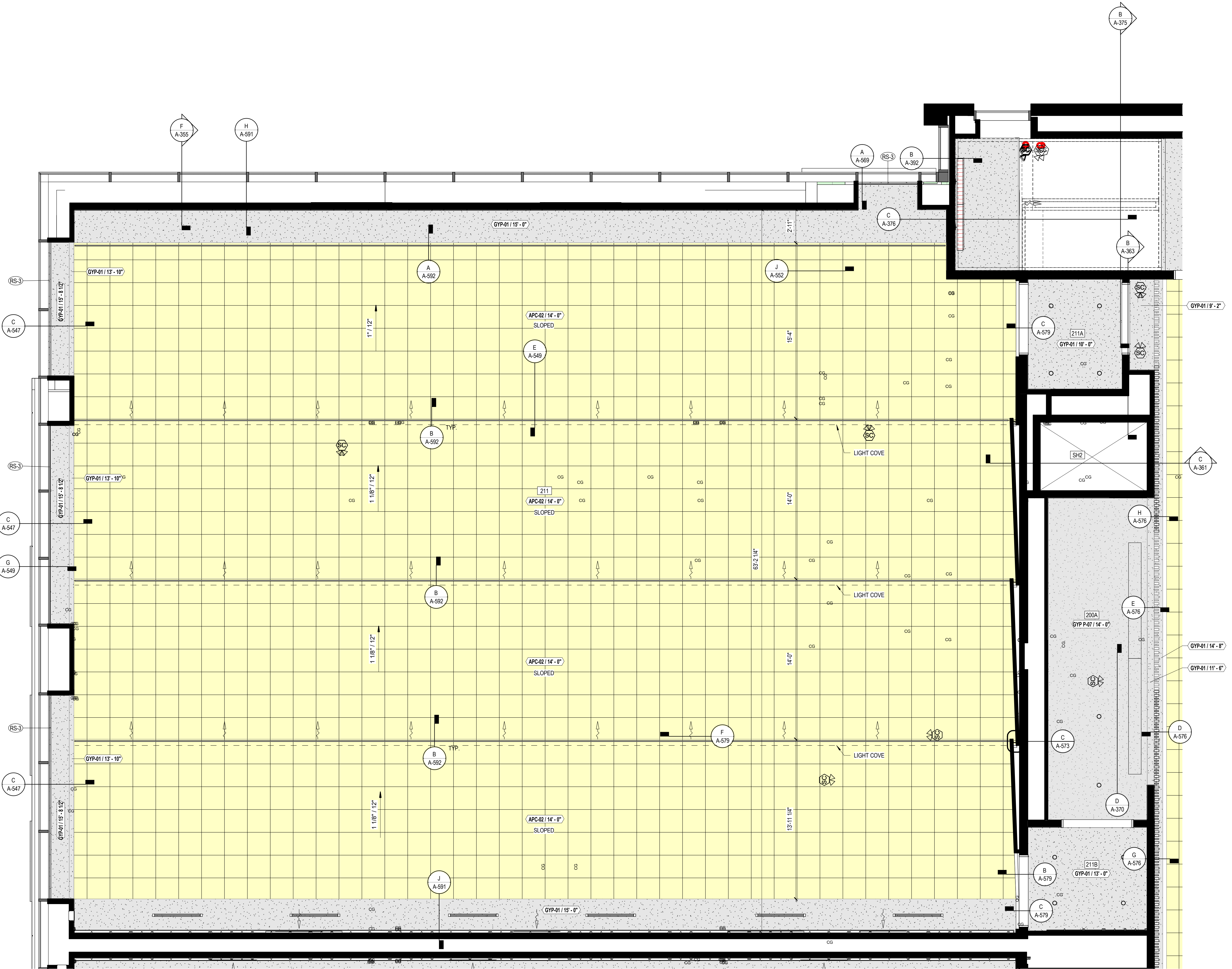
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No.	Description	Date

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ENLARGED PLAN - 200P CLASSROOM 211

A-409

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**(A) ENLARGED RCP - 200P CLASSROOM 211**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100 - VISUAL DISPLAY SURFACES			
V01	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V10	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V11	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V12	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V13	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V14	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
V16	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
10 2299 - FOLDING PANEL PARTITIONS			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
10 2600 - WALL & DOOR PROTECTION			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
10 2800 - TOILET ACCESSORY			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
10 4313 - DEFIBRILLATOR CABINETS			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
10 4413 - FIRE EQUIPMENT			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
10 5113 - LOCKERS			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
11 1319 - LOADING DOCK EQUIPMENT			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
11 5200 - AV EQUIPMENT			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
11 5213 - PROJECTION SCREENS			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
12 2413 - ROLLER WINDOW SHADES			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
APPLIANCES			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
EQUIPMENT			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COFFER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	UK WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

CEILING TYPES	
TYPE	DESCRIPTION
APC-01	2' x 2' ACOUSTICAL PANEL SYSTEM (09 5113)
APC-02	2' x 2' ACOUSTICAL PANEL SYSTEM - CONCEALED GRID (09 5113)
APC-03	2' x 2' ACOUSTICAL PANEL SYSTEM - HUMIDITY RESISTANT (09 5113)
APC-04	2' x 2' ACOUSTICAL PANEL SYSTEM - HEALTHY (09 5113)
APC-05	2' x 2' ACOUSTICAL PANEL SYSTEM - CERAMGUARD (09 5113)
EXP. EXPOSED STRUCTURE, REFER TO RCP FOR PAINT	
GYP-P-03	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 03
GYP-P-04	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 04
GYP-P-05	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 05
GYP-P-07	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 07
GYP-P-08	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 08
GYP-P-09	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 09
GYP-01	5/8" GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-02	5/8" MOUL & MOISTURE RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-2HR	2 HR RATED HORIZONTAL ASSEMBLY
MBC-01	METAL BAFFLE CEILING (09 5000)
MPC-01	ARKTURA PERFORATED METAL PANEL CEILING - (XX XXXX)
SAC-01	SOUND ABSORBING CEILING BAFFLES (09 5113)
WPC-01	LINEAR WOOD PANEL CEILING (09 5426)
WPC-02	WOOD PANEL CEILING (09 5426)



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UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
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**ARCHITECTURAL**

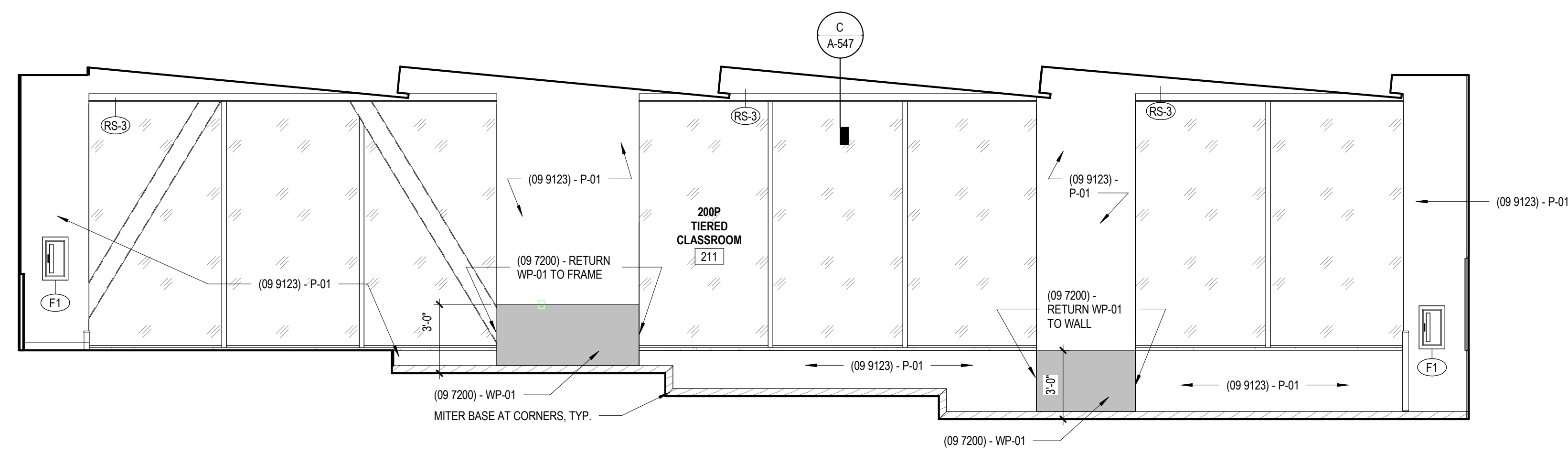
PROJECT 202170  
DATE 08.29.24

REVISIONS		
No.	Description	Date

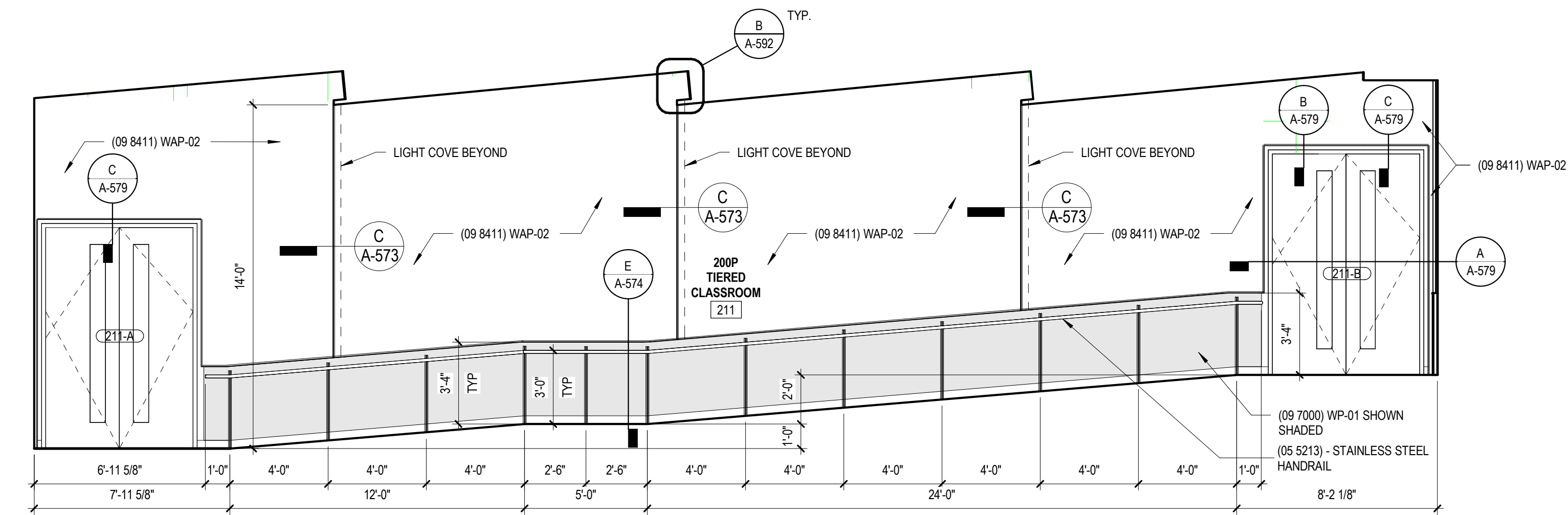
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**ENLARGED RCP - 200P CLASSROOM 211**

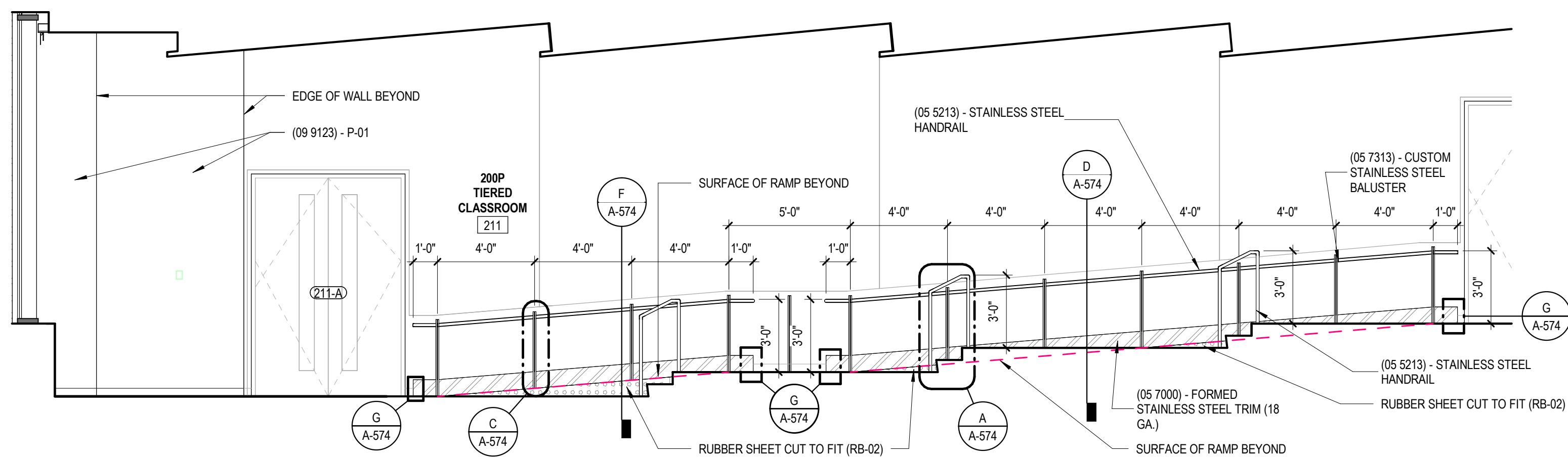
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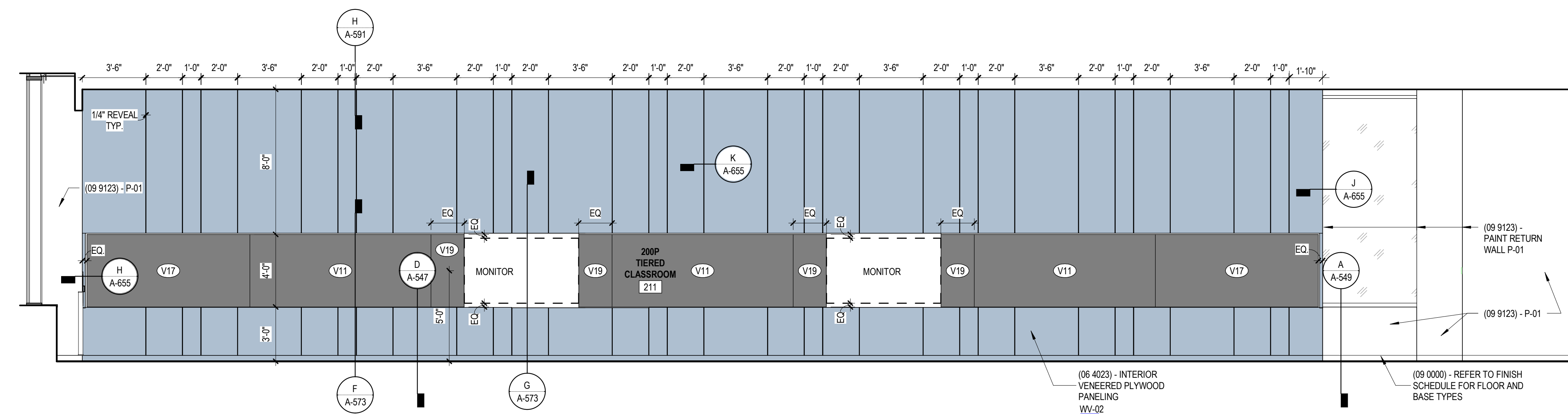
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1/4" = 1'-0"



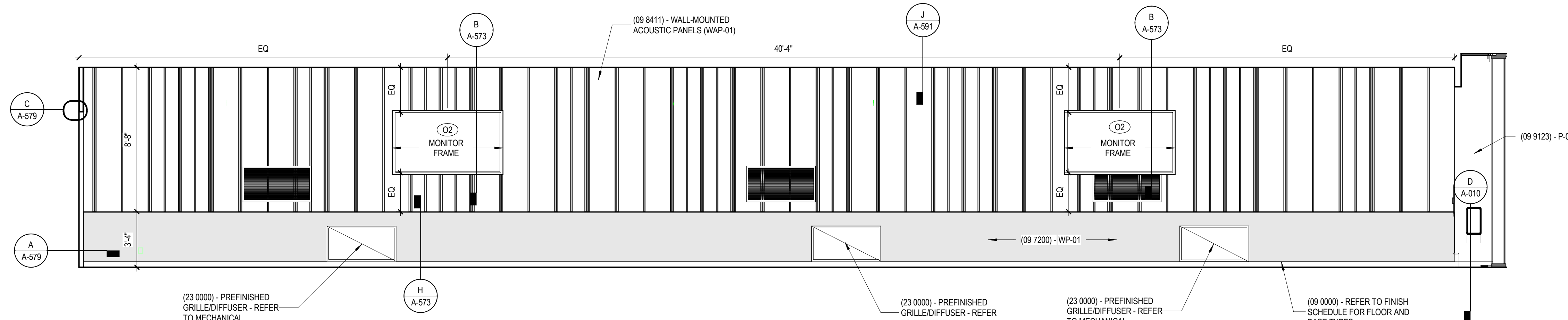
B INTERIOR ELEVATION - 200P CLASSROOM 211  
1/4" = 1'-0"



C INTERIOR ELEVATION - 200P CLASSROOM 211 GUARDRAIL  
1/4" = 1'-0"



D INTERIOR ELEVATION - 200P CLASSROOM 211  
1/4" = 1'-0"



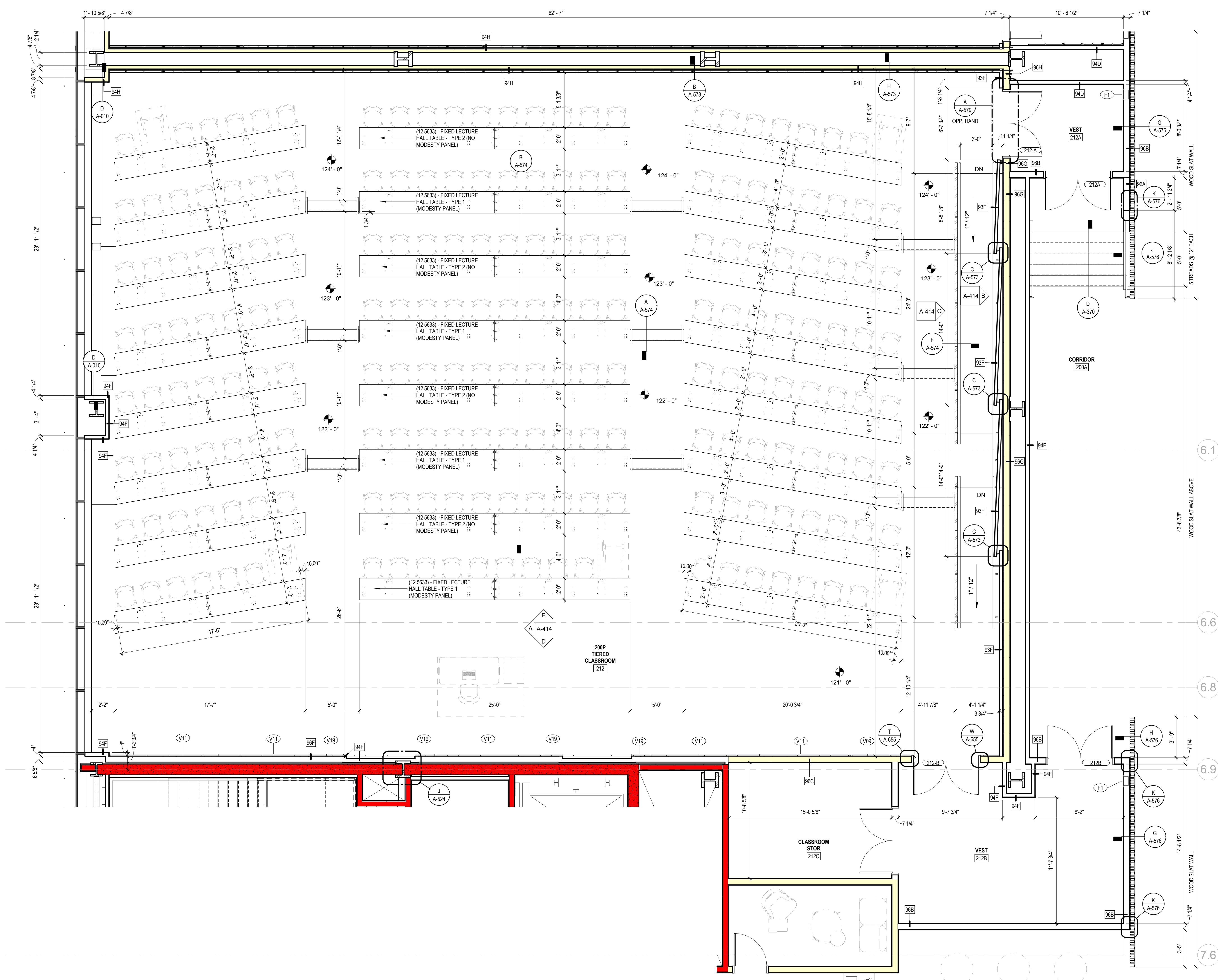
E INTERIOR ELEVATION - 200P CLASSROOM 211  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 8') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (8' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	varies
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED: 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED: 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	ADA BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-GLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPIER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

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ARCHITECTURAL		
PROJECT	202170	
DATE	08.29.24	
REVISIONS		
No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN ANY WAY, OR FOR ANY OTHER PROJECT, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR RELIANCE ON THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.



**A ENLARGED PLAN - 200 P TIERED CLASSROOM 212**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4 X 6) (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4 X 7) (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4 X 7) (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4 X 12) (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4 X 12) (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4 X 4) (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4 X 4) (WHITE)	C.F.C.I.	
V09	MARKER BOARD (10 X 4) (DARK BLUE)	C.F.C.I.	VERTICAL
V10	MARKER BOARD (10 X 4) (DARK BLUE)	C.F.C.I.	ANGLE CUT
V11	MARKER BOARD (4 X 6) (WHITE)	C.F.C.I.	
V12	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V13	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V14	MARKER BOARD (4 X 4) (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4 X 6) (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (2 X 3) (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2 X 3) (WHITE)	C.F.C.I.	VERTICAL
<b>10 2299 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	C.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	C.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	C.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	ADA CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPYER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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**BP-04F**

**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT 202170  
DATE 08.29.24

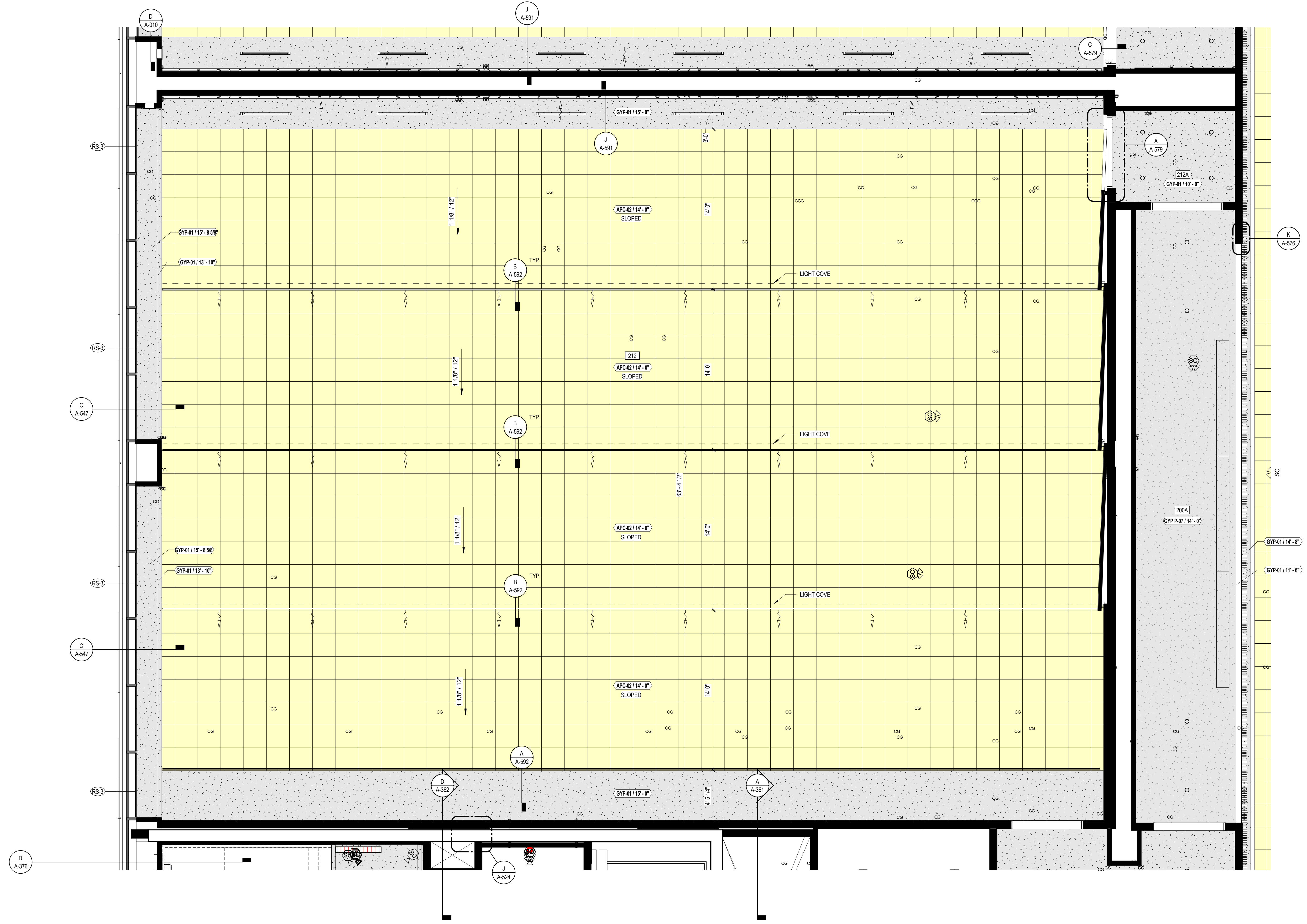
REVISIONS		
No.	Description	Date

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**ENLARGED PLAN - 200 P TIERED CLASSROOM 212**

**A-412**

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**A** ENLARGED RCP - 200P CLASSROOM 212  
1/4" = 1'-0"

**SPECIALTIES & EQUIPMENT SCHEDULE**

MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4 X 6) (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4 X 7) (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4 X 7) (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4 X 12) (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4 X 12) (WHITE)	C.F.C.I.	
V09	MARKER BOARD (4 X 4) (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4 X 4) (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10 X 4) (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10 X 4) (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4 X 10) (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4 X 4) (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4 X 6) (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6 X 6) (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (8 X 4) (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2 X 3) (WHITE)	C.F.C.I.	VERTICAL
<b>10 2200 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	C.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	C.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	C.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEBRILLATOR CABINETS</b>			
D1	DEBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
Q2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COOPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	IE WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

CEILING TYPES	
TYPE	DESCRIPTION
APC-01	2' x 2' ACOUSTICAL PANEL SYSTEM (09 5113)
APC-02	2' x 2' ACOUSTICAL PANEL SYSTEM - CONCEALED GRID (09 5113)
APC-03	2' x 2' ACOUSTICAL PANEL SYSTEM - HUMIDITY RESISTANT (09 5113)
APC-04	2' x 2' ACOUSTICAL PANEL SYSTEM - HEALTH (09 5113)
APC-05	2' x 2' ACOUSTICAL PANEL SYSTEM - CERAMGUARD (09 5113)
EXP.	EXPOSED STRUCTURE, REFER TO RCP FOR PAINT
GYP-P-03	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 03
GYP-P-04	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 04
GYP-P-05	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 05
GYP-P-06	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 06
GYP-P-07	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 07
GYP-P-08	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 08
GYP-P-09	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 09
GYP-01	5/8" GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-02	5/8" MOULDED & MOISTURE RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-2HR	2 HR RATED HORIZONTAL ASSEMBLY
MBC-01	METAL BAFFLE CEILING (09 5000)
MPC-01	MARBU PERFORATED METAL PANEL CEILING - (XX XXXX)
SAC-01	SOUND ABSORBING CEILING BAFFLES (09 5113)
WPC-01	LINEAR WOOD PANEL CEILING (09 5426)
WPC-02	WOOD PANEL CEILING (09 5426)



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BP-04F

**MICHAEL D. RANKIN MD HEALTH  
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UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

**PROJECT** 202170

**DATE** 08.29.24

**REVISIONS**

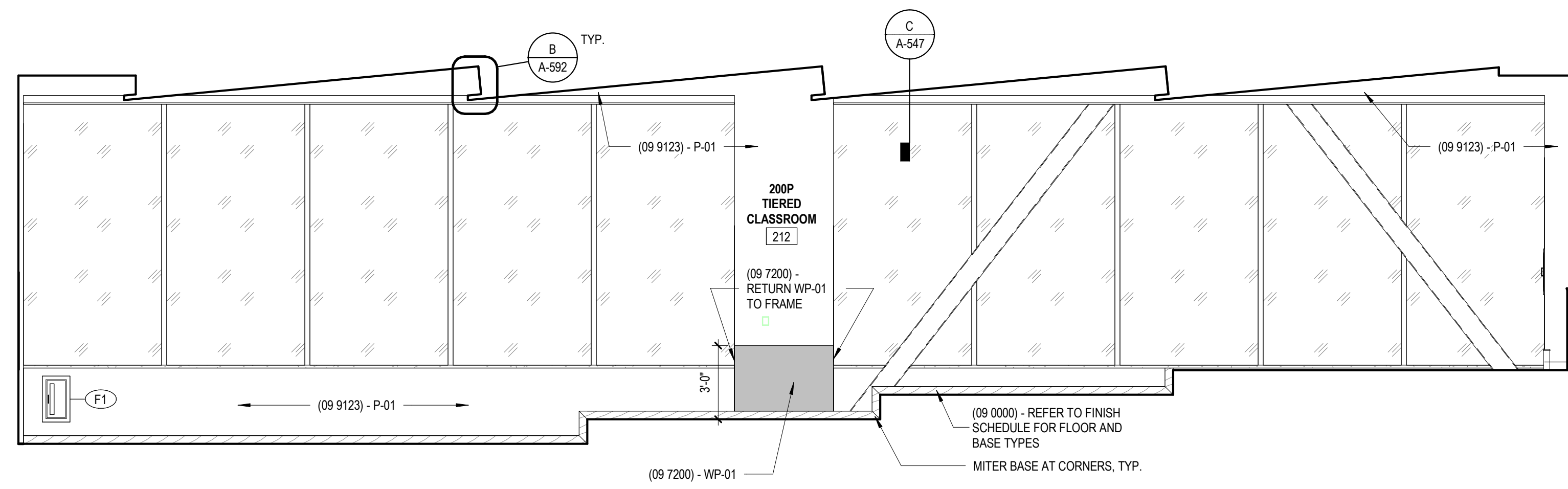
No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN THAT FOR WHICH THEY WERE ORIGINALLY PROVIDED. THE CLIENT AGREES NOT TO PURCHASE OR REUSE THESE DRAWINGS FOR OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

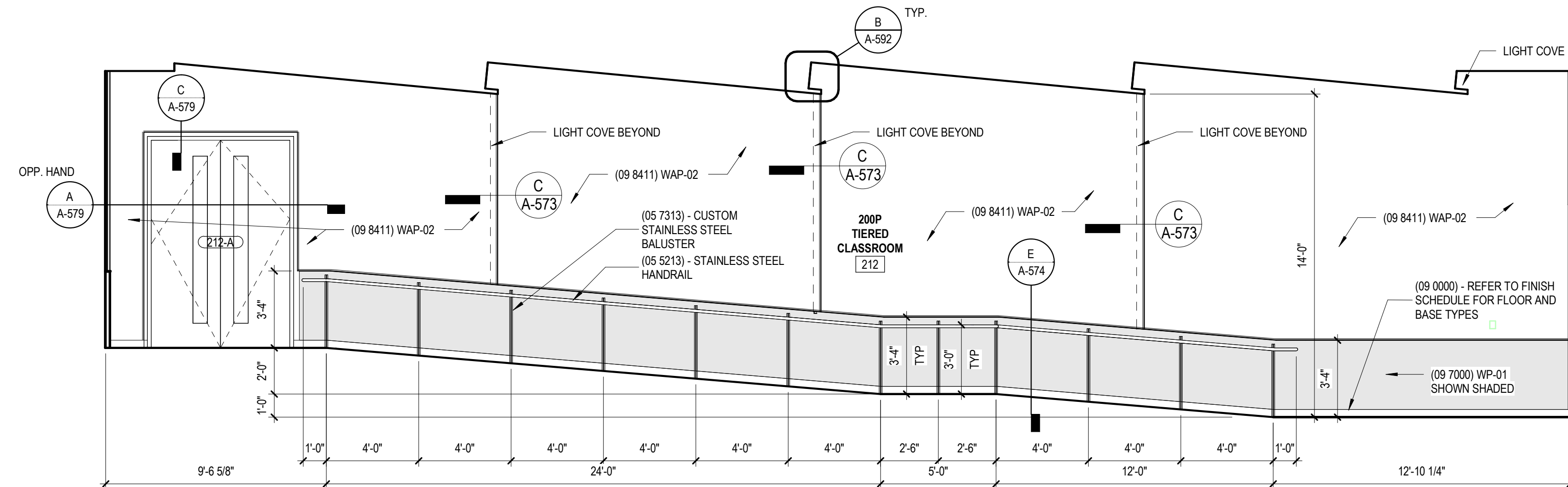
**ENLARGED  
RCP - 200P  
CLASSROOM  
212**

**A-413**

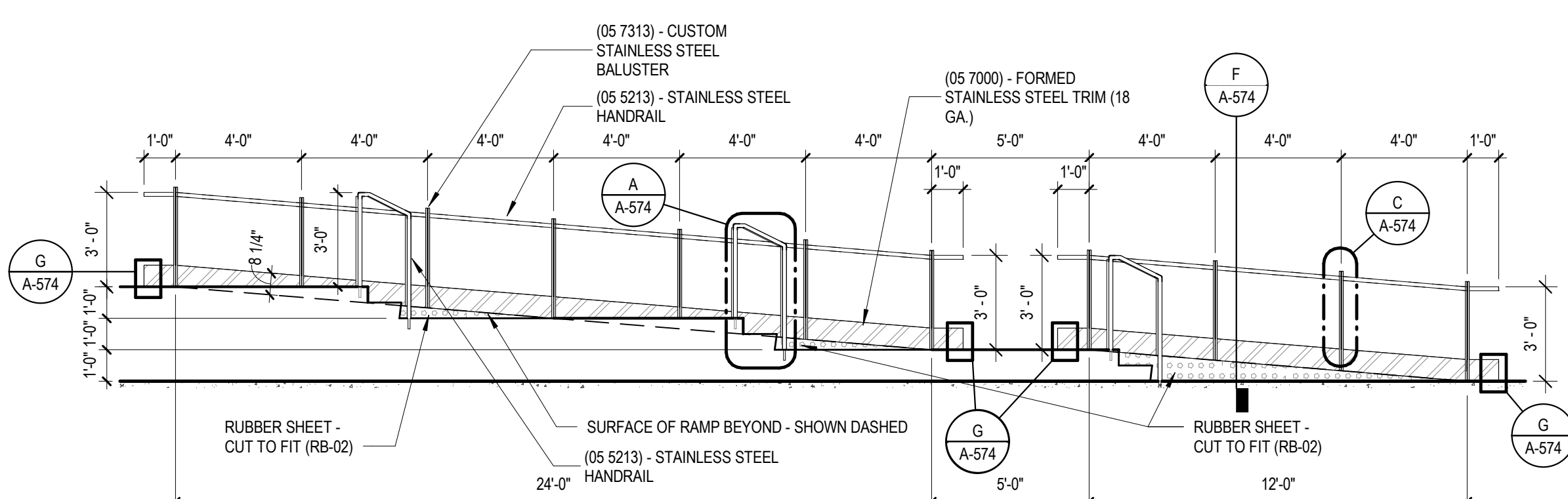
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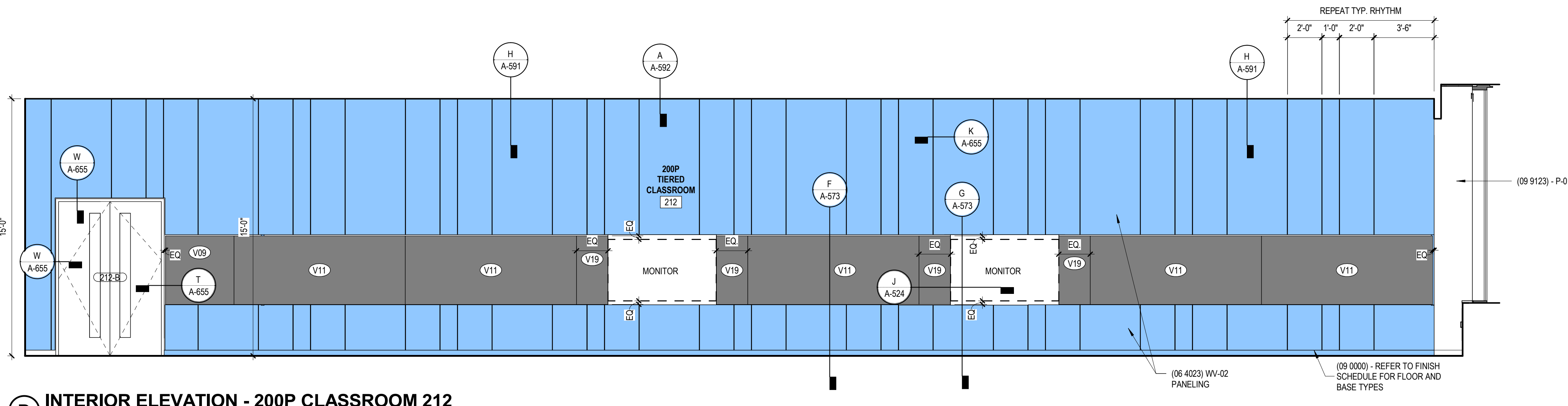
**A INTERIOR ELEVATION 200P CLASSROOM 212**  
1/4" = 1'-0"



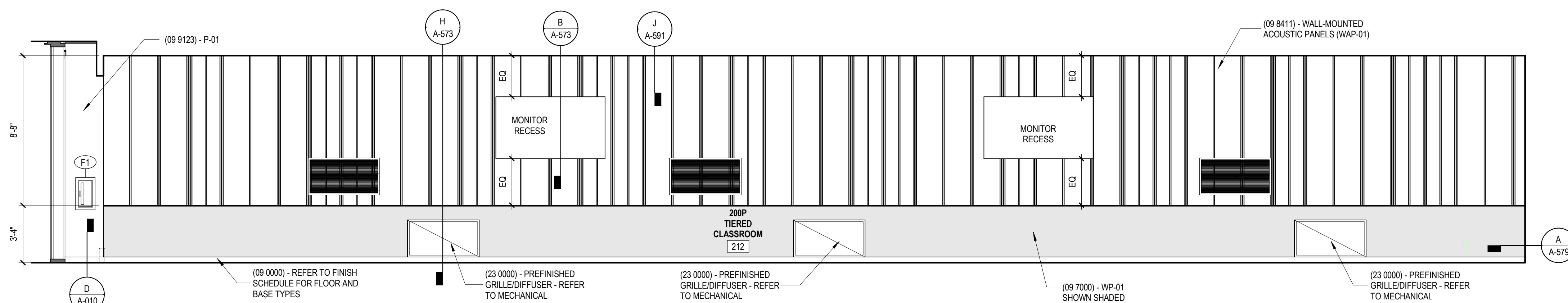
**B INTERIOR ELEVATION 200P CLASSROOM 212**  
1/4" = 1'-0"



**C INTERIOR ELEVATION CLASSROOM 212 RAMP RAIL**  
1/4" = 1'-0"



**D INTERIOR ELEVATION - 200P CLASSROOM 212**  
1/4" = 1'-0"



**E INTERIOR ELEVATION 200P CLASSROOM 212**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V10	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V11	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V12	MARKER BOARD (4' X 10') (DARK BLUE)	C.F.C.I.	
V13	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (6' X 8') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 8') (WHITE)	C.F.C.I.	
V19	MARKER BOARD (8' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V20	MARKER BOARD (8' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 5') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED: 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED: 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER MOUNTED	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COOPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

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BP-04F

MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT: 202170  
DATE: 08.29.24

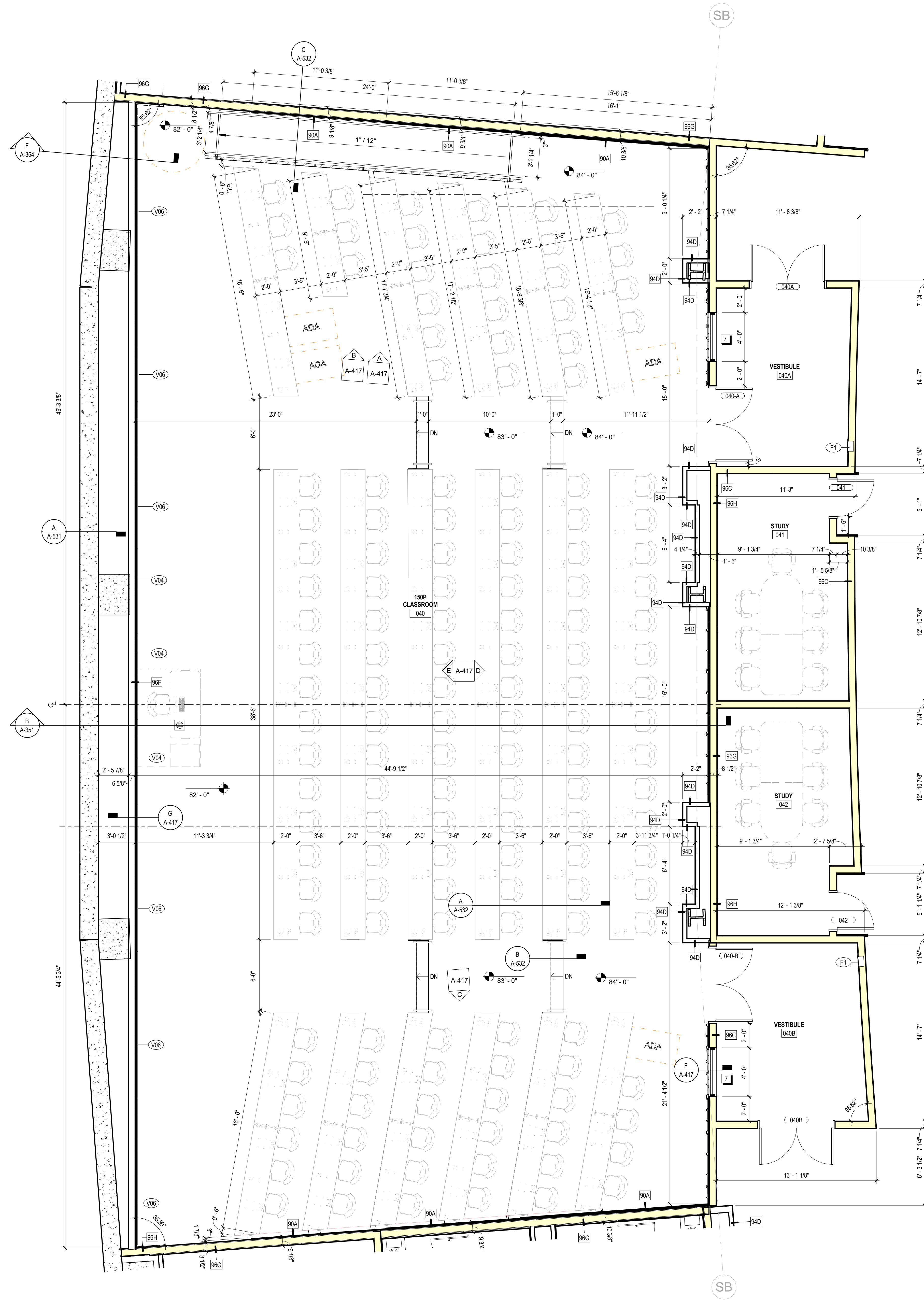
REVISIONS		
No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES TO HAND TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

**INTERIOR ELEVATIONS - 200P CLASSROOM 212**

**A-414**

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**A ENLARGED PLAN - 150P CLASSROOM 040**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V10	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V11	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V12	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V13	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (8' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	C.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEBRILLATOR CABINETS</b>			
D1	DEBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPYER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



301 East Vine Street  
Lexington, Kentucky 40507  
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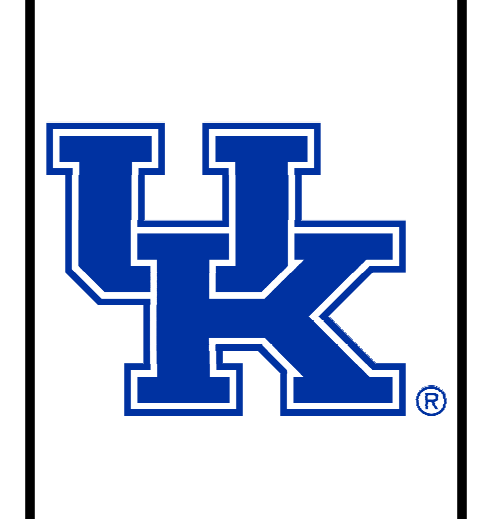
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St. Louis, MO 63102  
314.421.2000

BP-04F

MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT 202170  
DATE 08.29.24

REVISIONS		
No.	Description	Date

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**ENLARGED PLAN - 150P CLASSROOM 040**

**A-415**

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**A** ENLARGED RCP - 150P CLASSROOM 040  
1/4" = 1'-0"

**SPECIALTIES & EQUIPMENT SCHEDULE**

MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V08	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (6' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED: 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED: 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.O.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.O.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1313 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPYER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	UK WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

**CEILING TYPES**

TYPE	DESCRIPTION
APC-01	2' x 2' ACOUSTICAL PANEL SYSTEM (09 5113)
APC-02	2' x 2' ACOUSTICAL PANEL SYSTEM - CONCEALED GRID (09 5113)
APC-03	2' x 2' ACOUSTICAL PANEL SYSTEM - HUMIDITY RESISTANT (09 5113)
APC-04	2' x 2' ACOUSTICAL PANEL SYSTEM - HEALTH (09 5113)
APC-05	2' x 2' ACOUSTICAL PANEL SYSTEM - CERAMGUARD (09 5113)
EXP.	EXPOSED STRUCTURE, REFER TO RCP FOR PAINT
GYP-P-03	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 03
GYP-P-04	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 04
GYP-P-05	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 05
GYP-P-07	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 07
GYP-P-08	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 08
GYP-P-09	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 09
GYP-01	5/8" MOULDED & MOISTURE RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-02	5/8" MOULDED & MOISTURE RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-2HR	2 HR RATED HORIZONTAL ASSEMBLY
MBC-01	METAL BAFFLE CEILING (09 5000)
MPC-01	ACRURIA PERFORATED METAL PANEL CEILING - (XX XXXX)
SAC-01	SOUND ABSORBING CEILING BAFFLES (09 5113)
WPC-01	LINEAR WOOD PANEL CEILING (09 5426)
WPC-02	WOOD PANEL CEILING (09 5426)



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**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT 202170  
DATE 08.29.24

REVISIONS		
No.	Description	Date

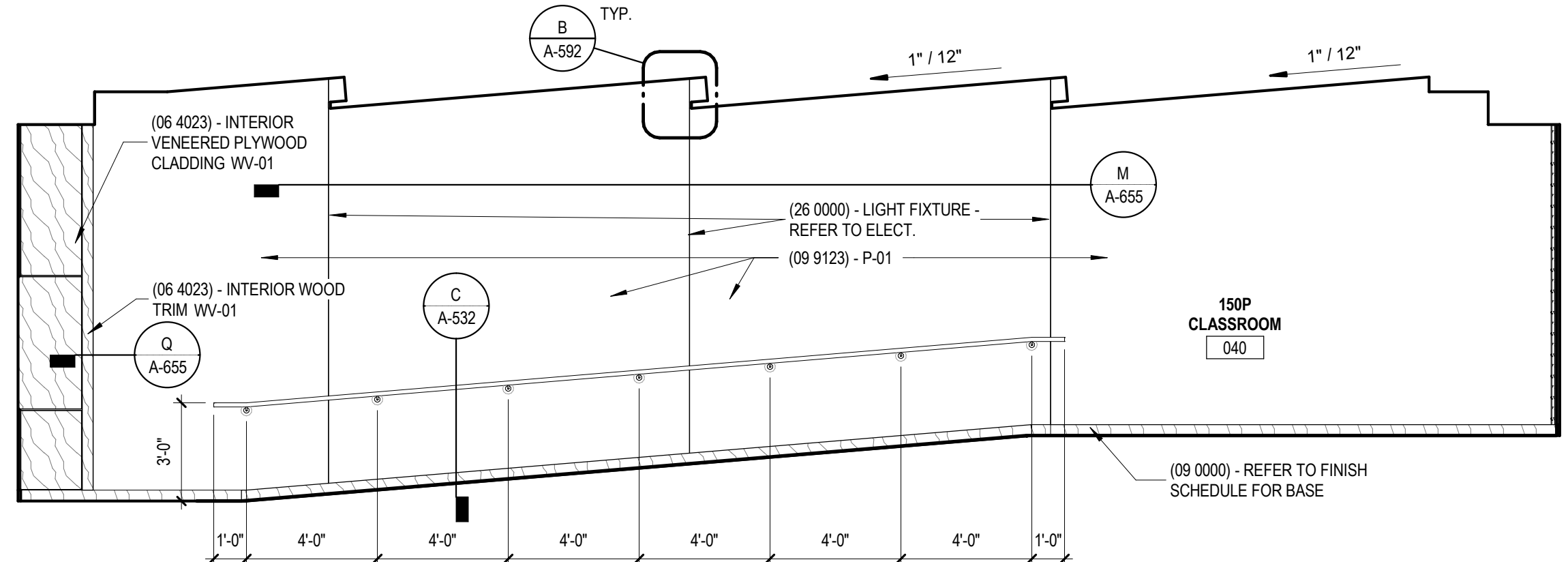
JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN ANY WAY, OR IN PART, FOR ANY PROJECT OTHER THAN THAT FOR WHICH THEY WERE PREPARED. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS FOR ANY OTHER PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

**ENLARGED RCP - 150P CLASSROOM 040**

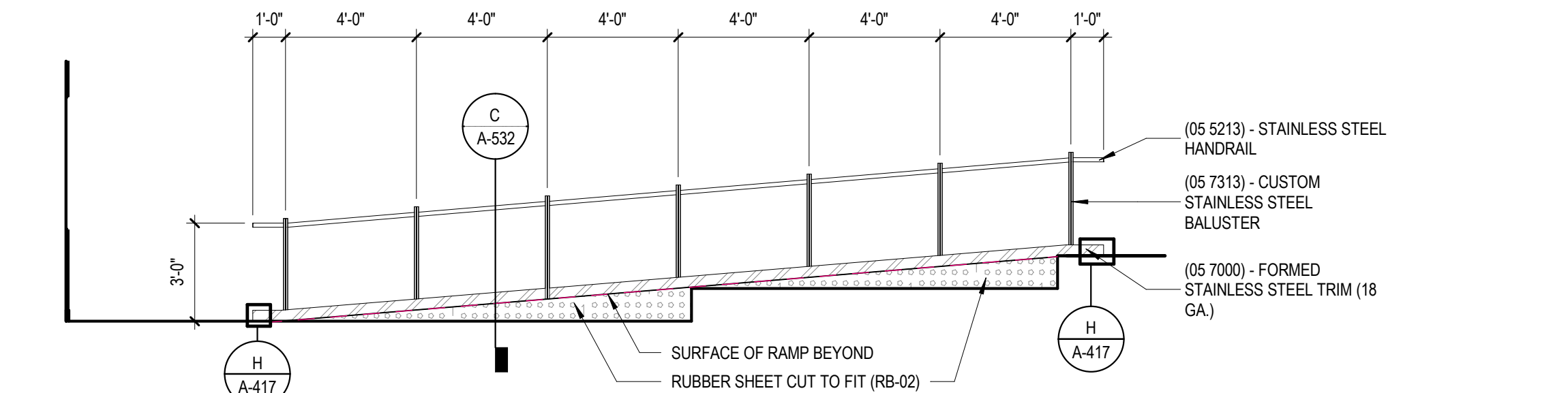
**A-416**

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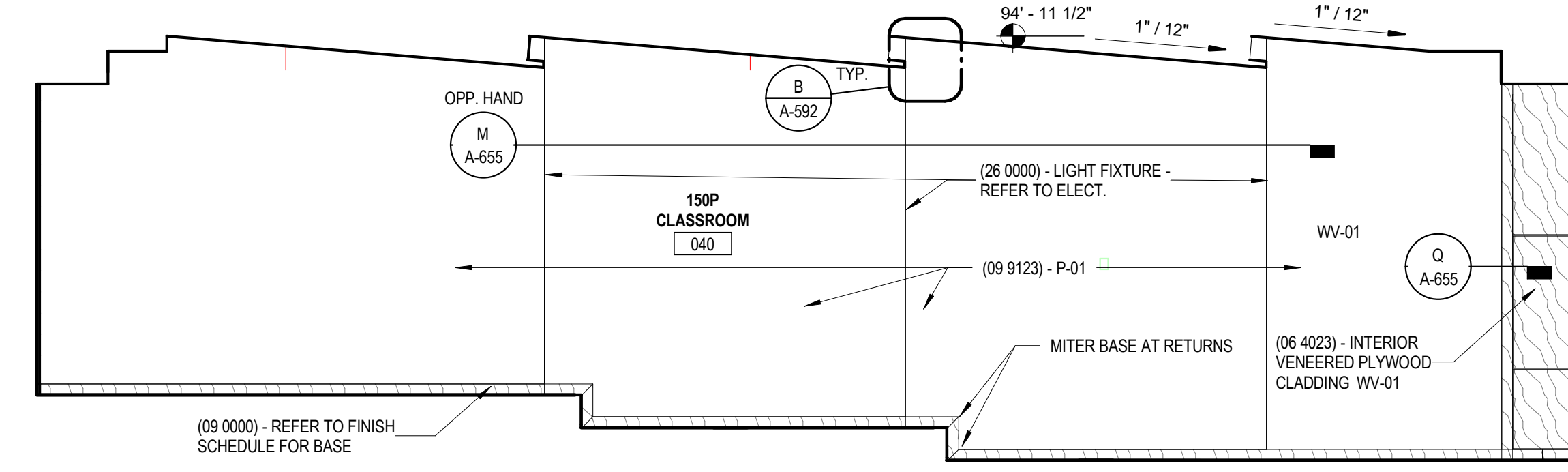




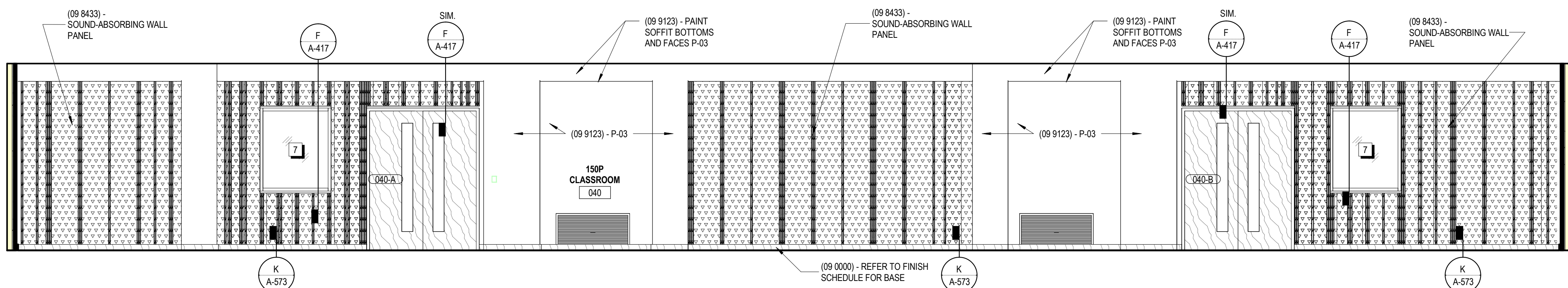
A INTERIOR ELEVATION - 150P CLASSROOM 040  
1/4" = 1'-0"



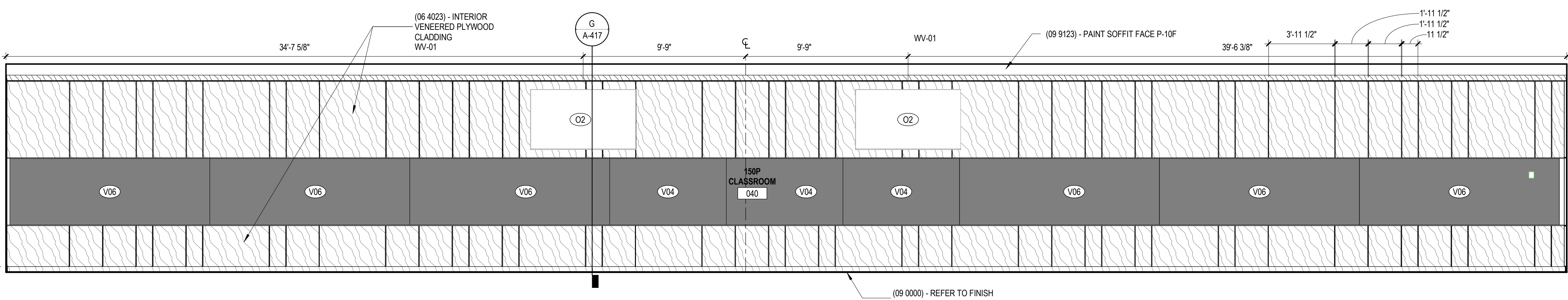
B INTERIOR ELEVATION - 150P CLASSROOM 040 RAMP RAILING  
1/4" = 1'-0"



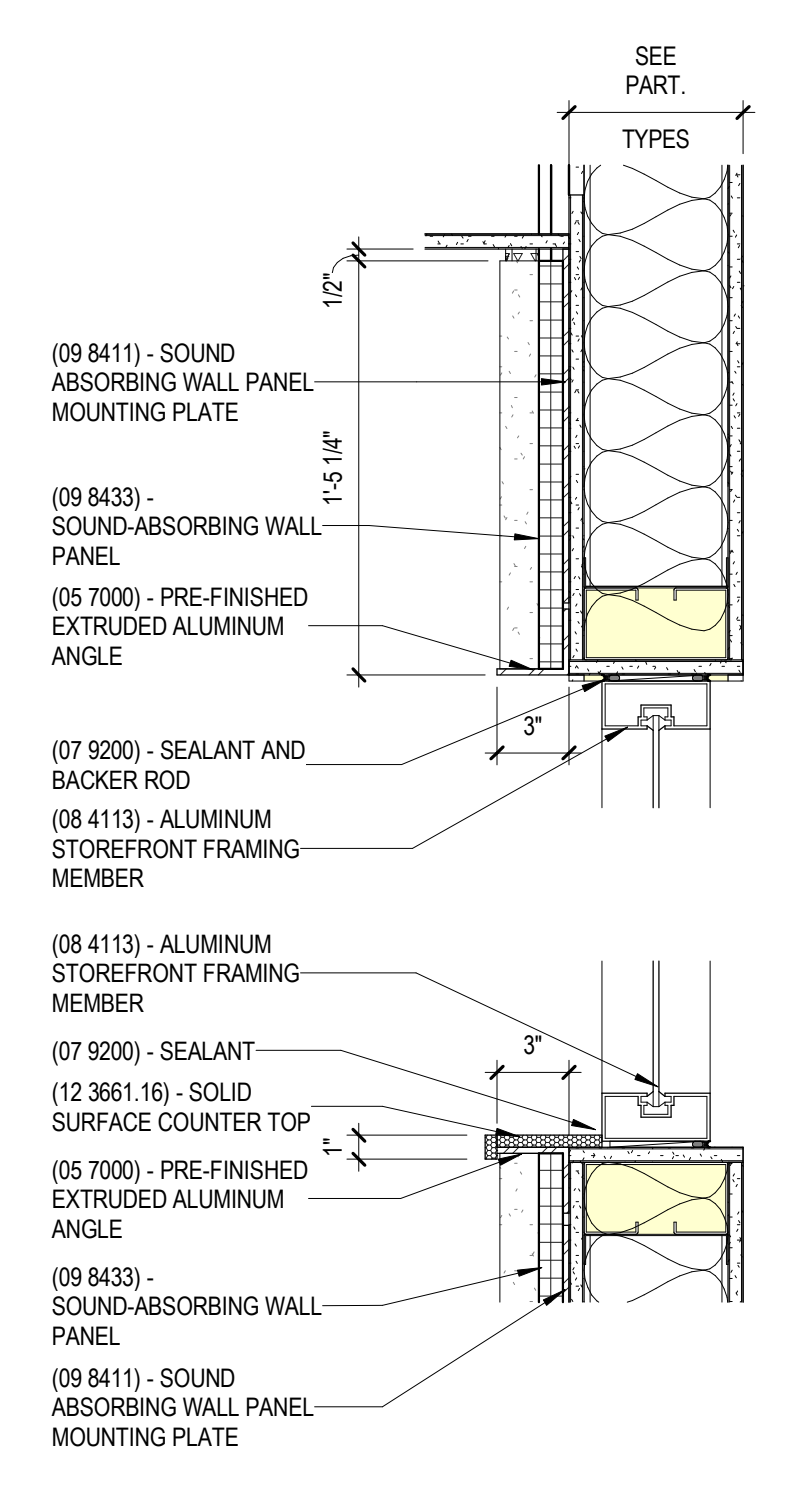
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1/4" = 1'-0"



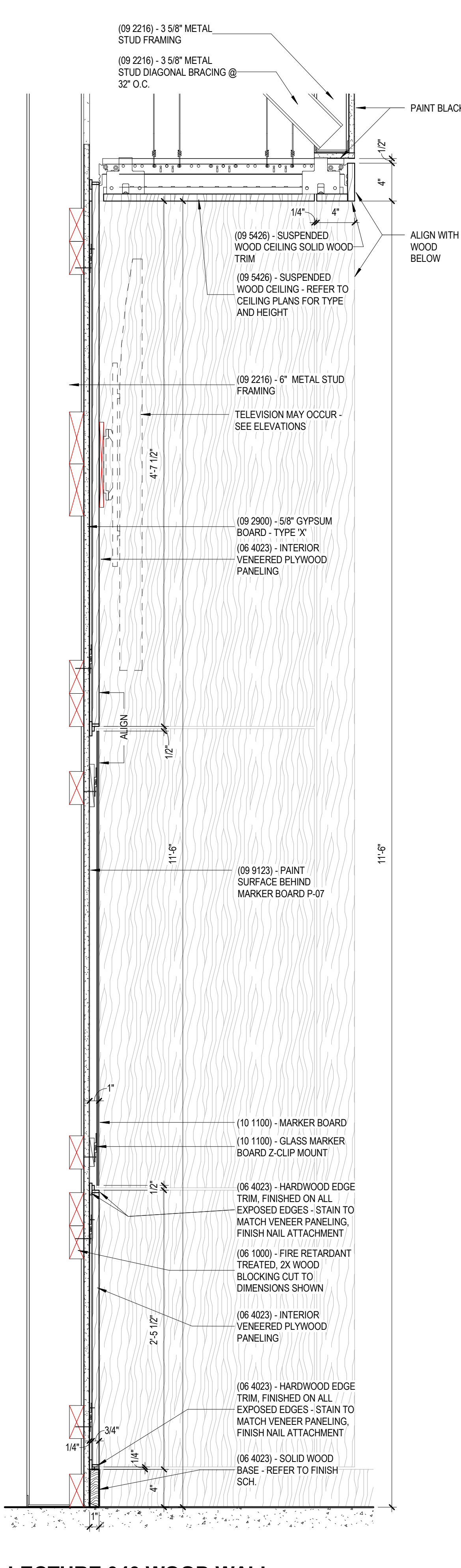
D INTERIOR ELEVATION - 150P CLASSROOM 040  
1/4" = 1'-0"



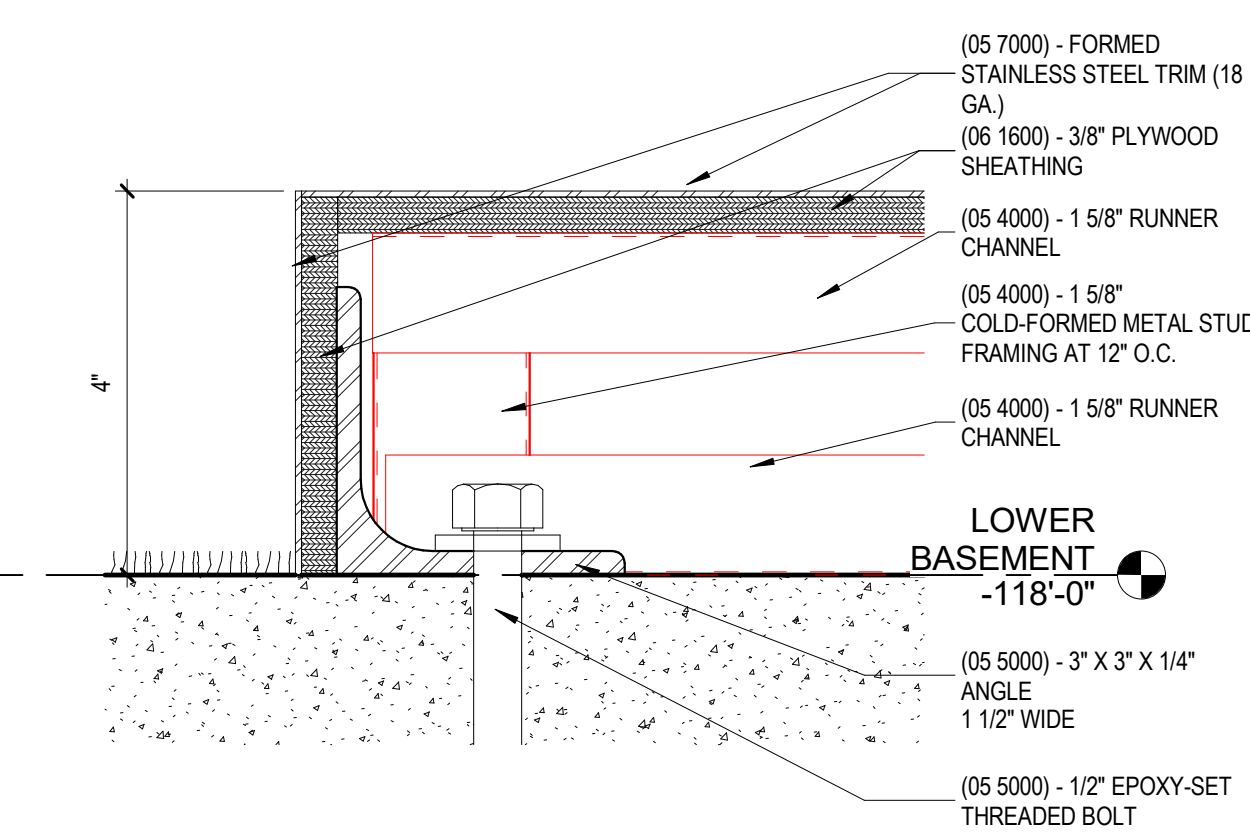
E INTERIOR ELEVATION - 150P CLASSROOM 040  
1/4" = 1'-0"



F LECTURE 040 WINDOW SECTION  
1 1/2" = 1'-0"



G LECTURE 040 WOOD WALL  
1 1/2" = 1'-0"



H LECTURE 040 RAMP BASE END  
6" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100	-VISUAL DISPLAY SURFACES		
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (10' X 12') (DARK BLUE)	C.F.C.I.	VERTICAL
V06	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V07	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V08	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V09	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V10	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (2' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
10 2239	-FOLDING PANEL PARTITIONS		
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
10 2600	-WALL & DOOR PROTECTION		
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
10 2800	-TOILET ACCESSORY		
T01	GRAB BAR SET: 36" BACK 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED 27" X 36"	C.F.C.I.	
T04	GRAB BAR - SHAPED 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
10 4313	-DEFIBRILLATOR CABINETS		
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
10 4413	-FIRE EQUIPMENT		
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
10 5113	-LOCKERS		
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
11 1319	-LOADING DOCK EQUIPMENT		
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
11 5200	-AV EQUIPMENT		
O2	WALL MOUNTED MONITOR	C.F.C.I.	
11 5213	-PROJECTION SCREENS		
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
12 2413	-ROLLER WINDOW SHADES		
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
APPLIANCES			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
EQUIPMENT			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPYER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	UK WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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ARCHITECTURAL

PROJECT: 202170  
DATE: 08.29.24

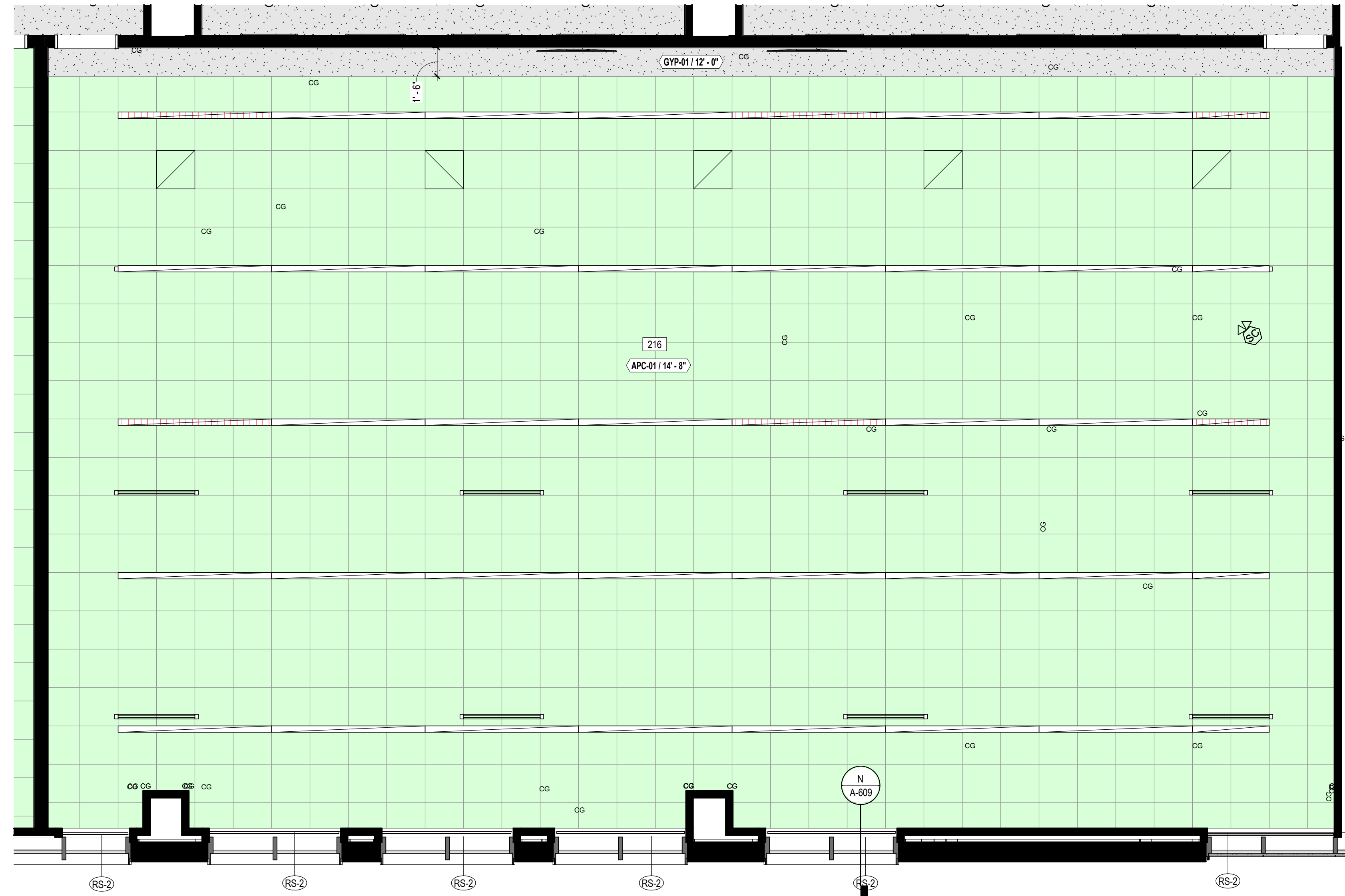
REVISIONS		
No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART FOR ANY FUTURE PROJECT OTHER THAN THIS PROJECT. THE CLIENT AGREES THAT THE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND THAT THE CLIENT SHALL NOT REPRODUCE, TRANSMIT, OR OTHERWISE DISSEMINATE THESE DRAWINGS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RELATING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

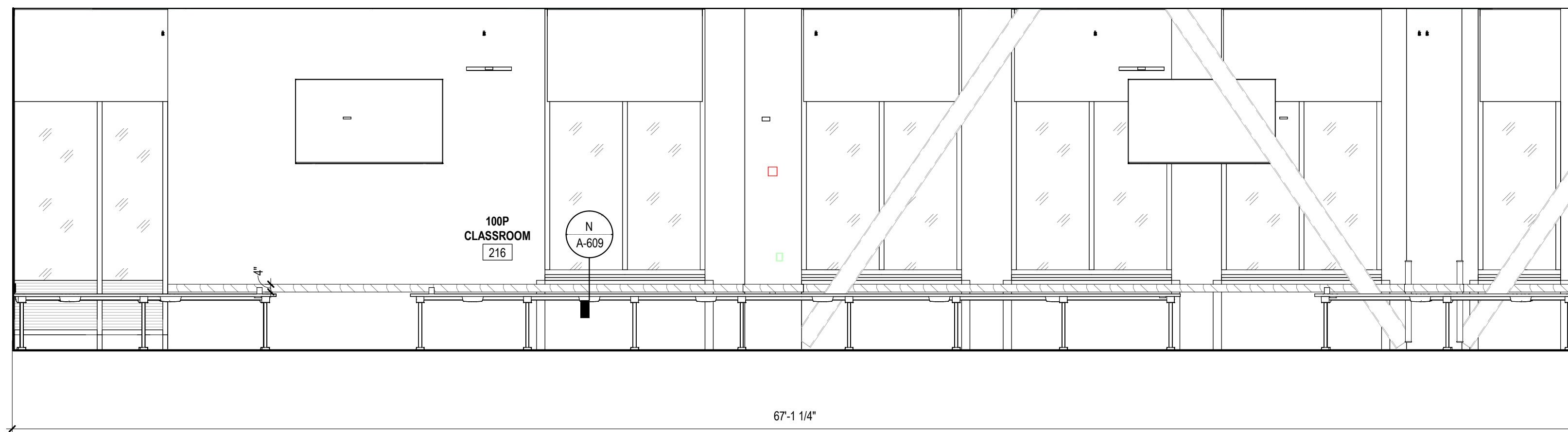
INTERIOR ELEVATIONS - 150P CLASSROOM 040

A-417  
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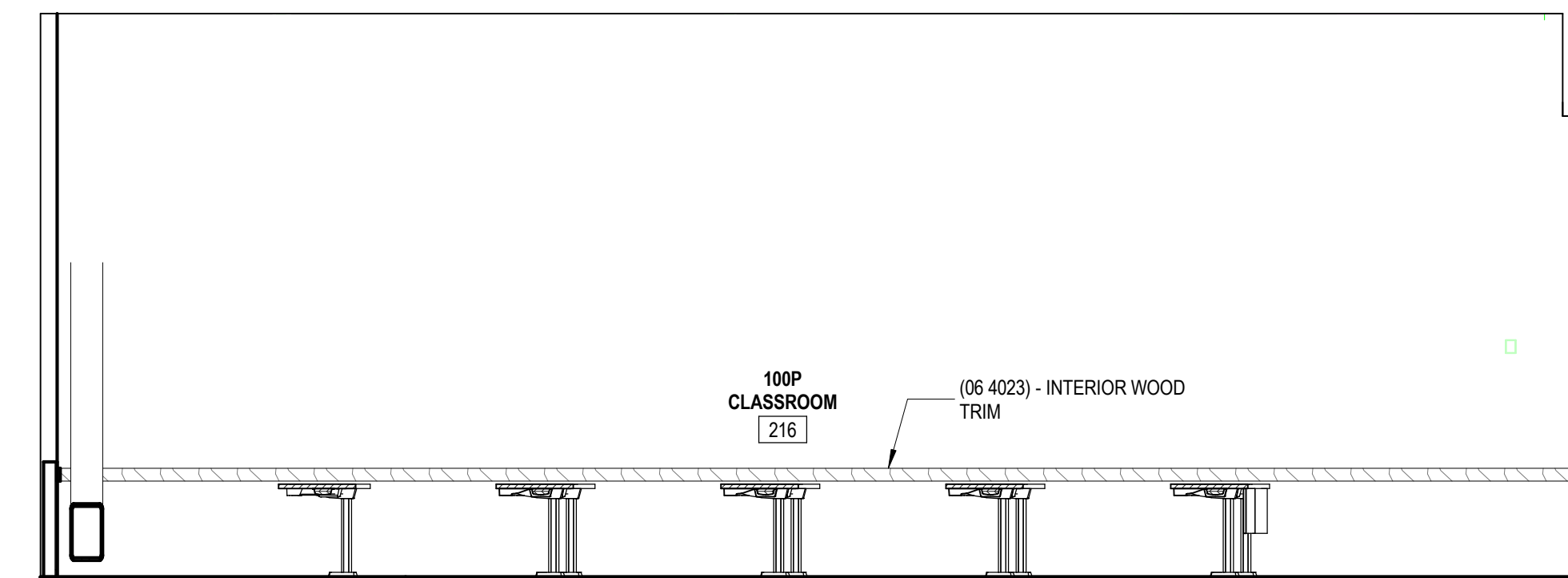




**A ENLARGED RCP - 100P CLASSROOM 216**  
1/4" = 1'-0"



**B INTERIOR ELEVATION - 100P CLASSROOM 216**  
1/4" = 1'-0"



**C INTERIOR ELEVATION - 100P CLASSROOM 216**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100 - VISUAL DISPLAY SURFACES			
V01	MARKER BOARD (4 X 8) (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4 X 8) (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4 X 7) (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4 X 7) (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4 X 12) (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4 X 12) (WHITE)	C.F.C.I.	
V09	MARKER BOARD (4 X 4) (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4 X 4) (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10 X 4) (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10 X 4) (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4 X 12) (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4 X 4) (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4 X 6) (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4 X 9) (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6 X 9) (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (8 X 4) (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2 X 3) (WHITE)	C.F.C.I.	VERTICAL
10 2299 - FOLDING PANEL PARTITIONS			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
10 2600 - WALL & DOOR PROTECTION			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
10 2800 - TOILET ACCESSORY			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED, 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED, 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
10 4313 - DEFIBRILLATOR CABINETS			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
10 4413 - FIRE EQUIPMENT			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
10 5113 - LOCKERS			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
11 1319 - LOADING DOCK EQUIPMENT			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
11 5200 - AV EQUIPMENT			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
11 5213 - PROJECTION SCREENS			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
12 2413 - ROLLER WINDOW SHADES			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
APPLIANCES			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
EQUIPMENT			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COFFER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	IE WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

CEILING TYPES	
TYPE	DESCRIPTION
APC-01	2' x 2' ACOUSTICAL PANEL SYSTEM (09 5113)
APC-02	2' x 2' ACOUSTICAL PANEL SYSTEM - CONCEALED GRID (09 5113)
APC-03	2' x 2' ACOUSTICAL PANEL SYSTEM - HUMIDITY RESISTANT (09 5113)
APC-04	2' x 2' ACOUSTICAL PANEL SYSTEM - HEAL (09 5113)
APC-05	2' x 2' ACOUSTICAL PANEL SYSTEM - CERAMGUARD (09 5113)
EXP.	EXPOSED STRUCTURE, REFER TO RCP FOR PAINT
GYP-P-03	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 03
GYP-P-04	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 04
GYP-P-05	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 05
GYP-P-07	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 07
GYP-P-08	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 08
GYP-P-09	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 09
GYP-01	5/8" GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-02	5/8" MOUL & MOISTURE RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-2HR	2 HR RATED HORIZONTAL ASSEMBLY
MBC-01	METAL BAFFLE CEILING (09 5000)
MPC-01	ARKTURA PERFORATED METAL PANEL CEILING - (XX XXXX)
SAC-01	SOUND ABSORBING CEILING BAFFLES (09 5113)
WPC-01	LINEAR WOOD PANEL CEILING (09 5426)
WPC-02	WOOD PANEL CEILING (09 5426)

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314.421.2000

BP-04F

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UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



ARCHITECTURAL

PROJECT 202170

DATE 08.29.24

REVISIONS

No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO FORFEIT THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RELATING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR RELIANCE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

ENLARGED  
RCP - 100P  
CLASSROOM  
216

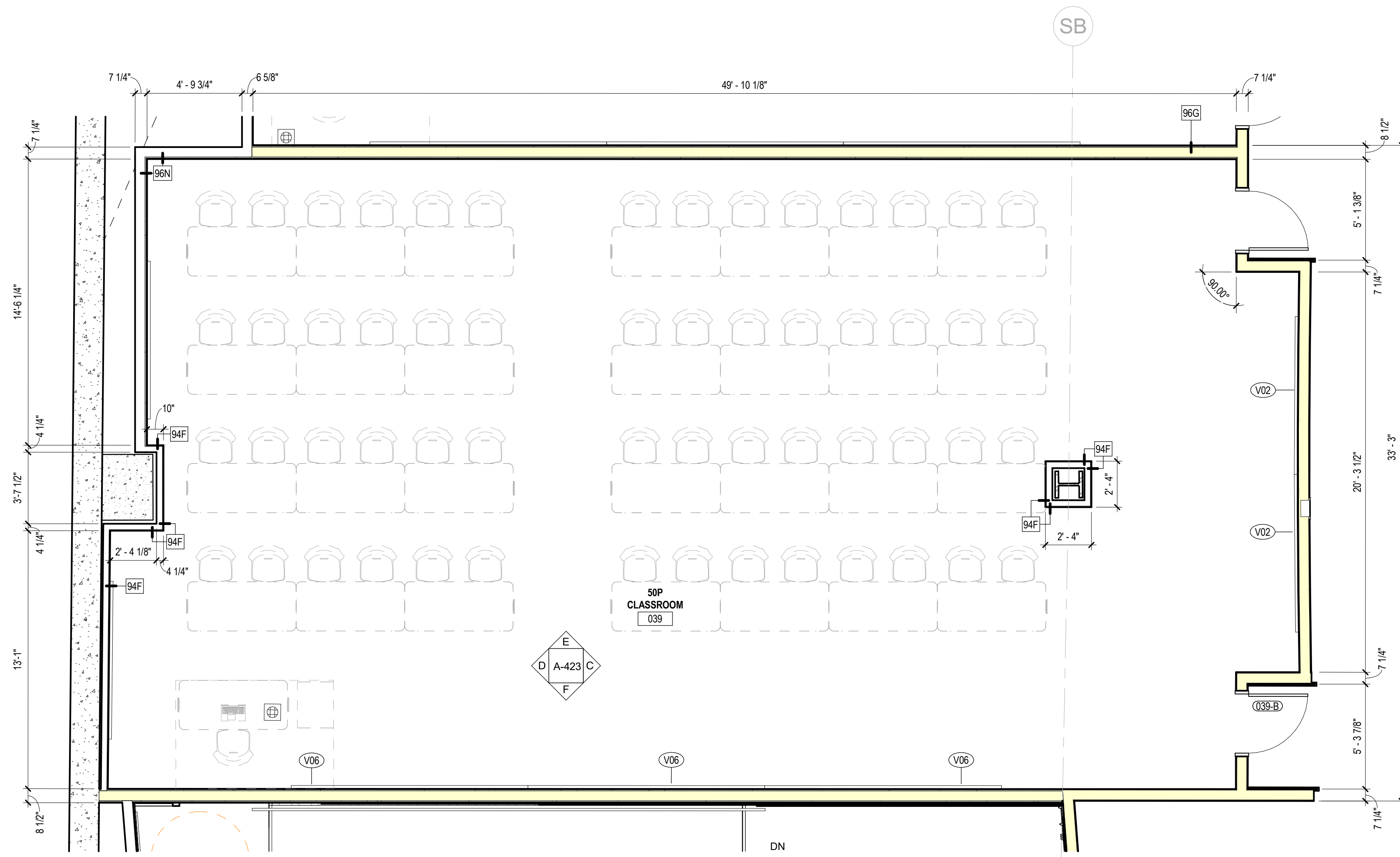
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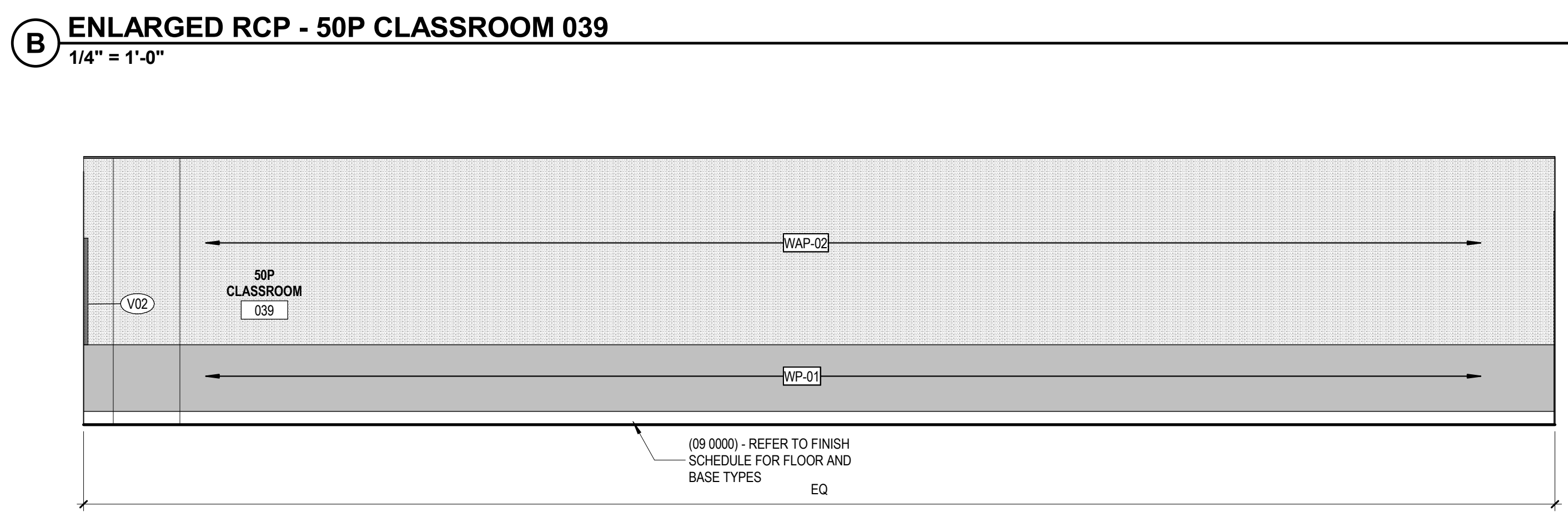
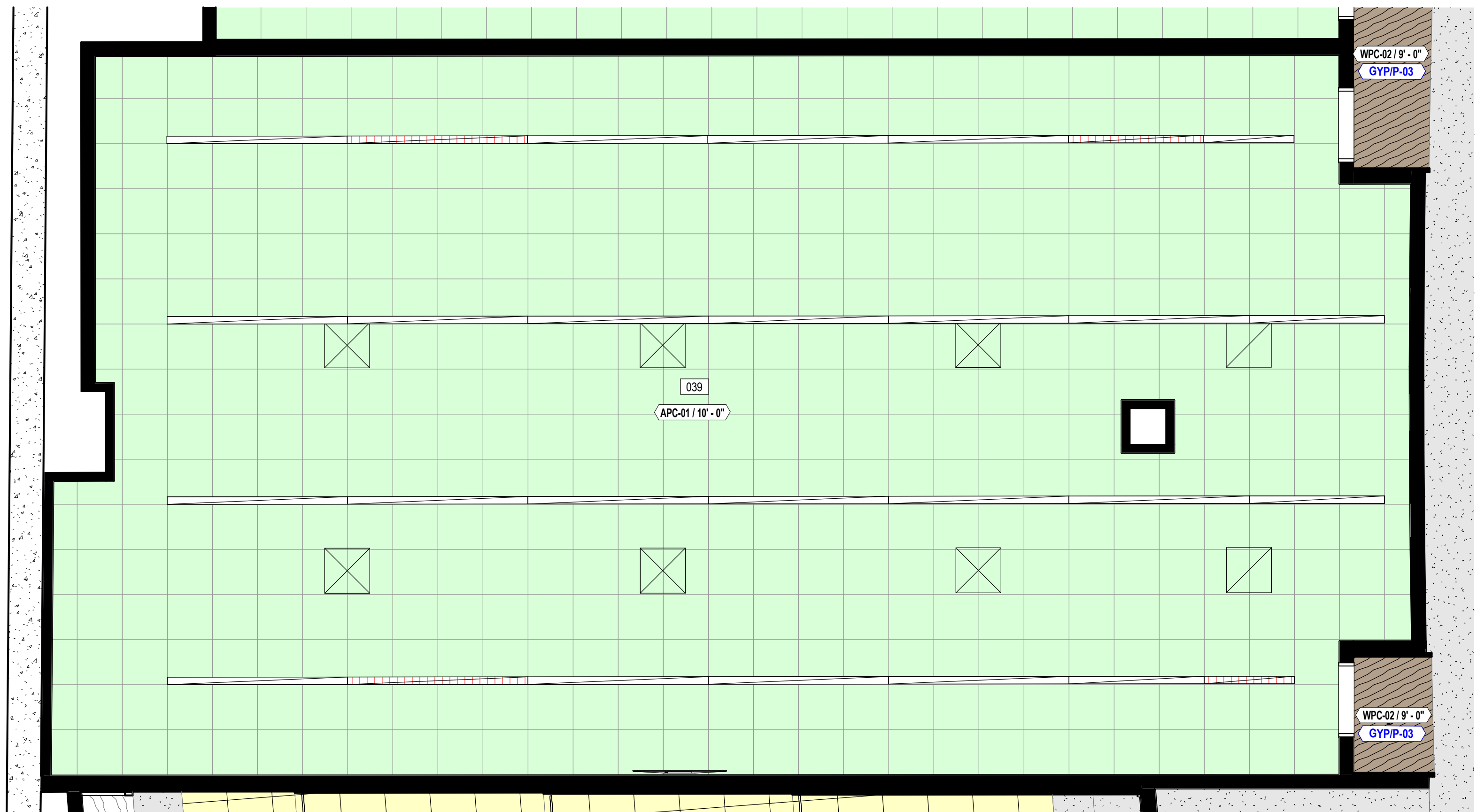
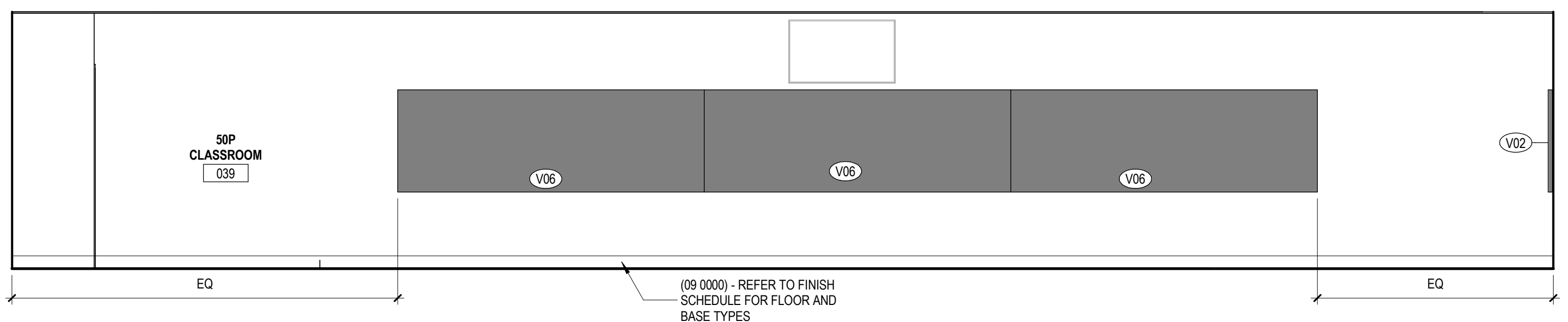
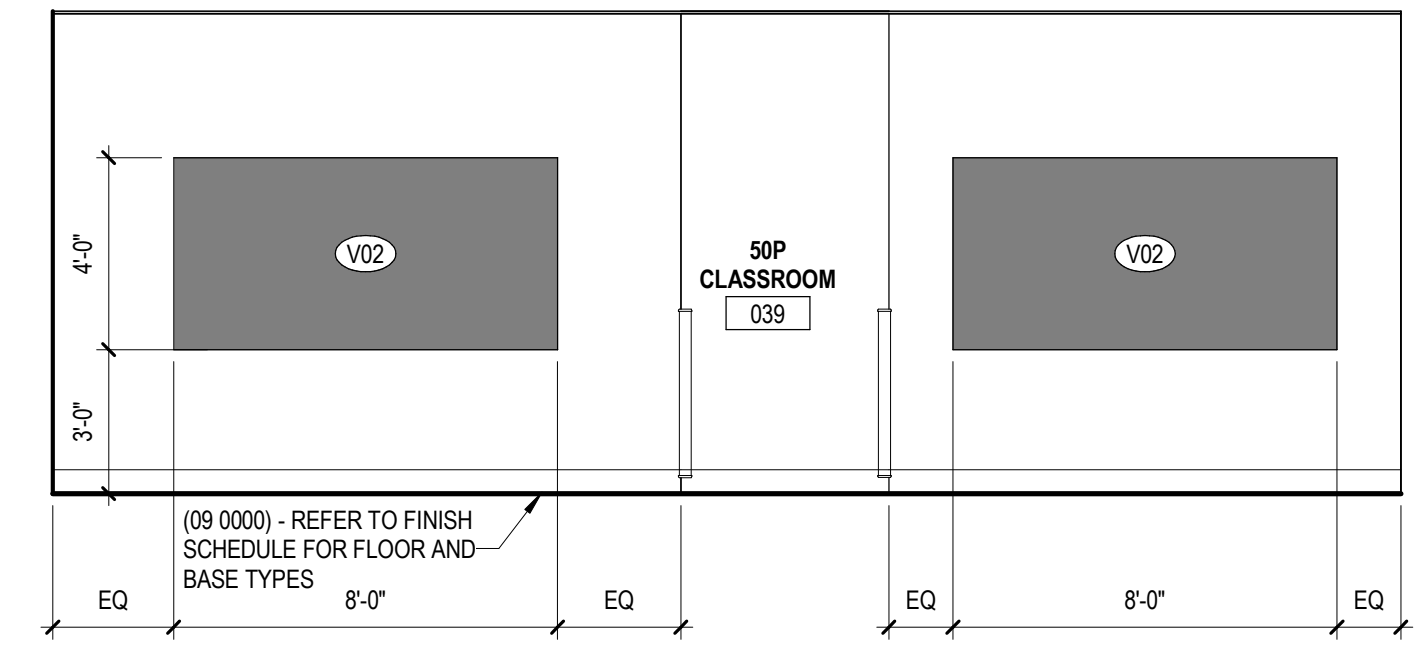
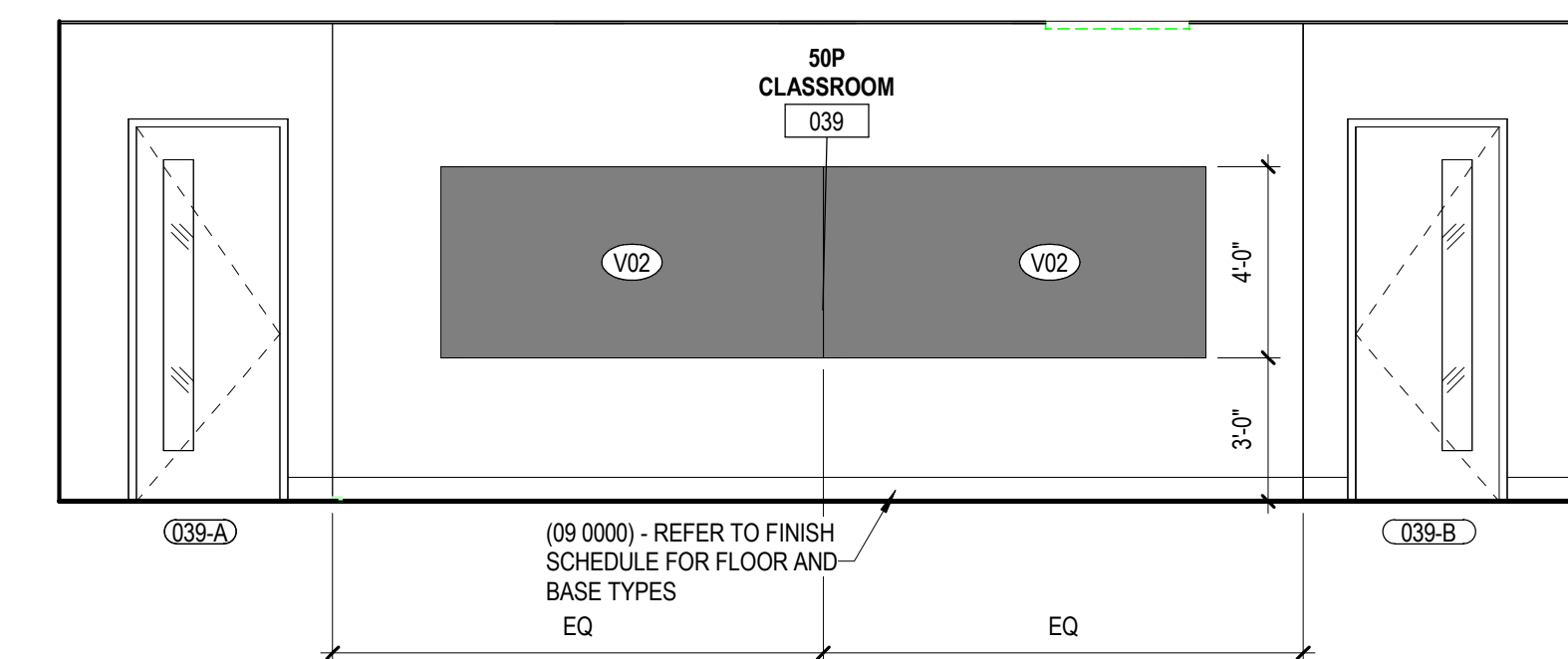






CEILING TYPES	
TYPE	DESCRIPTION
APC-01	2' x 2' ACOUSTICAL PANEL SYSTEM (09 5113)
APC-02	2' x 2' ACOUSTICAL PANEL SYSTEM - CONCEALED GRID (09 5113)
APC-03	2' x 2' ACOUSTICAL PANEL SYSTEM - HUMIDITY RESISTANT (09 5113)
APC-04	2' x 2' ACOUSTICAL PANEL SYSTEM - HEALTH (09 5113)
APC-05	2' x 2' ACOUSTICAL PANEL SYSTEM - CERAMAGUARD (09 5113)
EXP	EXPOSED STRUCTURE, REFER TO RCP FOR PAINT
GYP-P-03	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 03
GYP-P-04	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 04
GYP-P-06	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 06
GYP-P-07	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 07
GYP-P-08	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 08
GYP-P-09	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 09
GYP-01	5/8" GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-02	5/8" MOIST & HUMIDITY RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-2HR	2 HR RATED HORIZONTAL ASSEMBLY
MBC-01	METAL BAFFLE CEILING (09 5000)
MPC-01	ARTICULAR PERFORATED METAL PANEL CEILING - (XX XXXX)
SAC-01	SOUND ABSORBING CEILING BAFFLES (09 5113)
WPC-01	LINEAR WOOD PANEL CEILING (09 5426)
WPC-02	WOOD PANEL CEILING (09 5426)

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 8') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (6' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 5') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED: 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED: 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE GLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
EQN-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPIER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

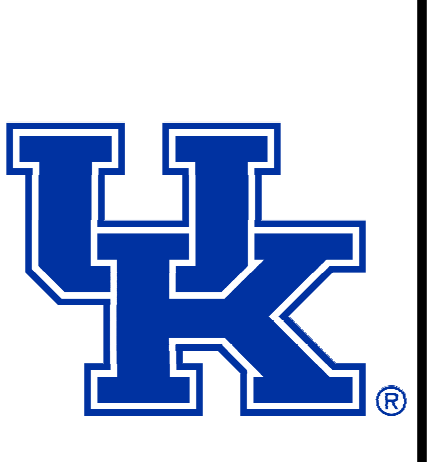


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BP-04F  
MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT: 202170  
DATE: 08.29.24

**REVISIONS**

No.	Description	Date

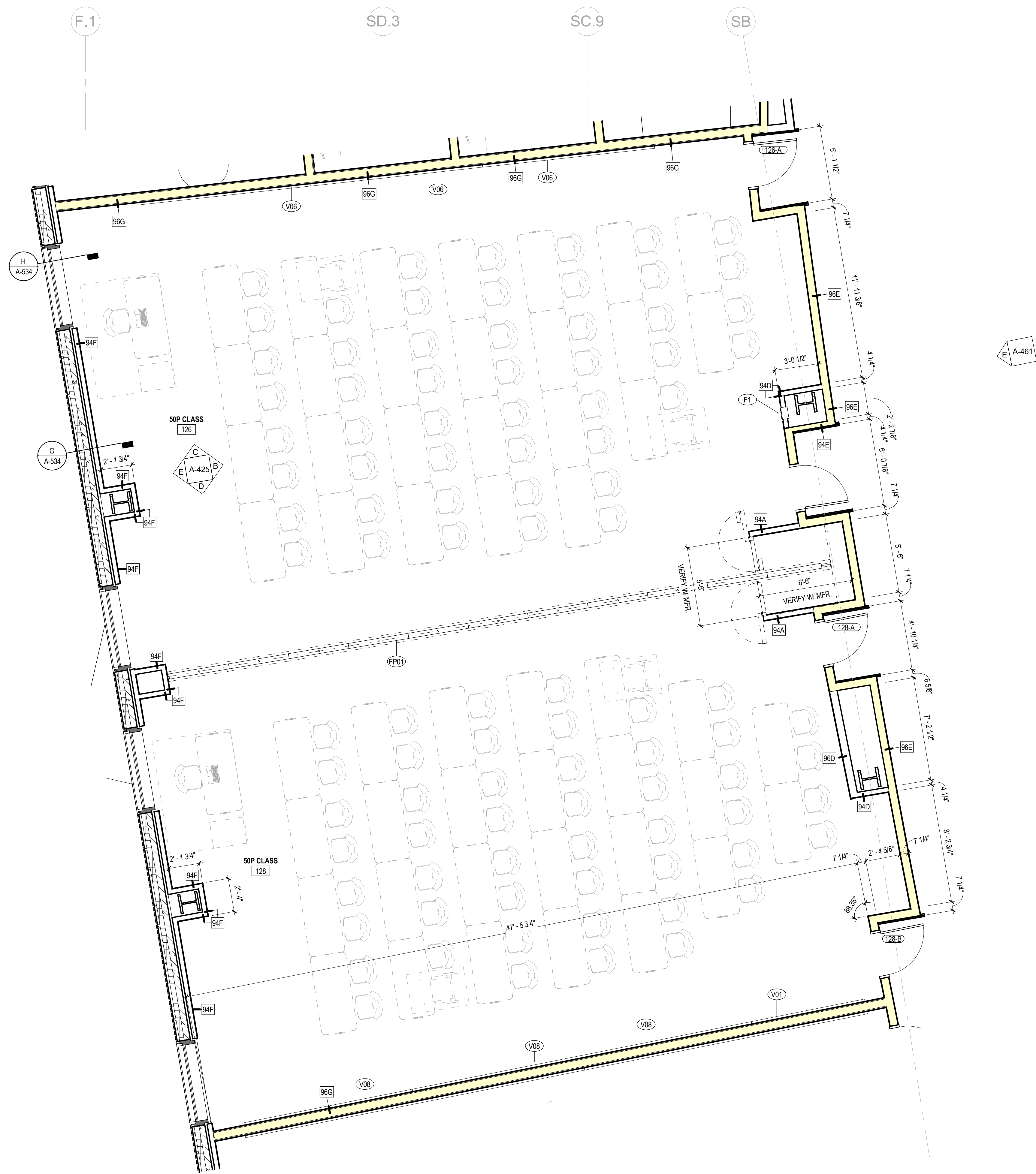
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**ENLARGED PLAN - 50P CLASSROOM 039**

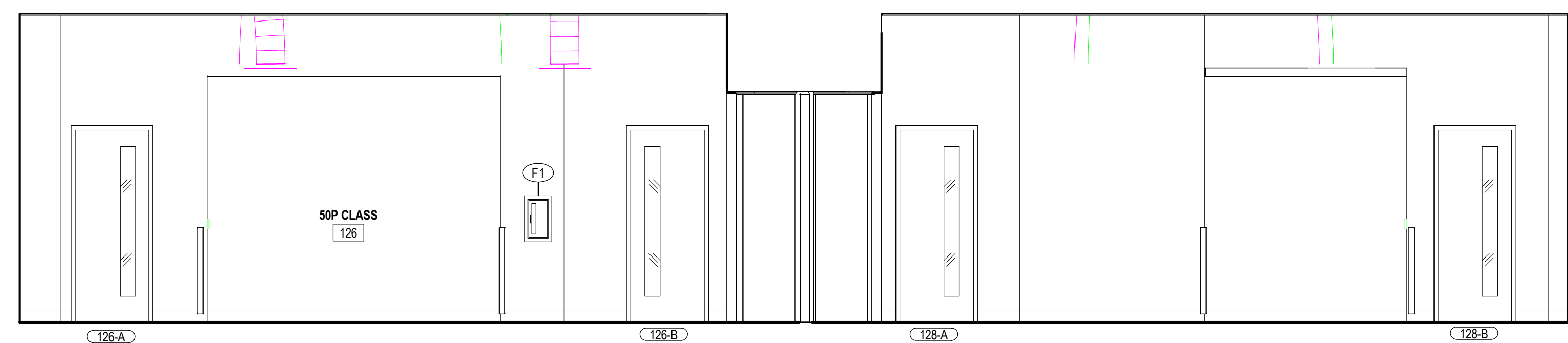
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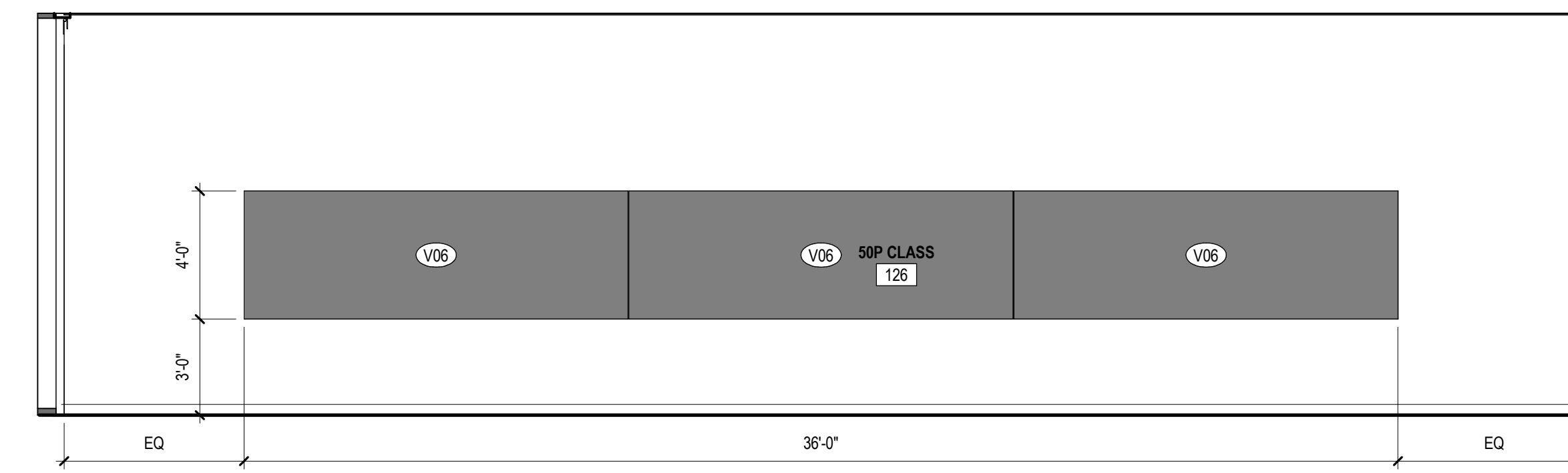




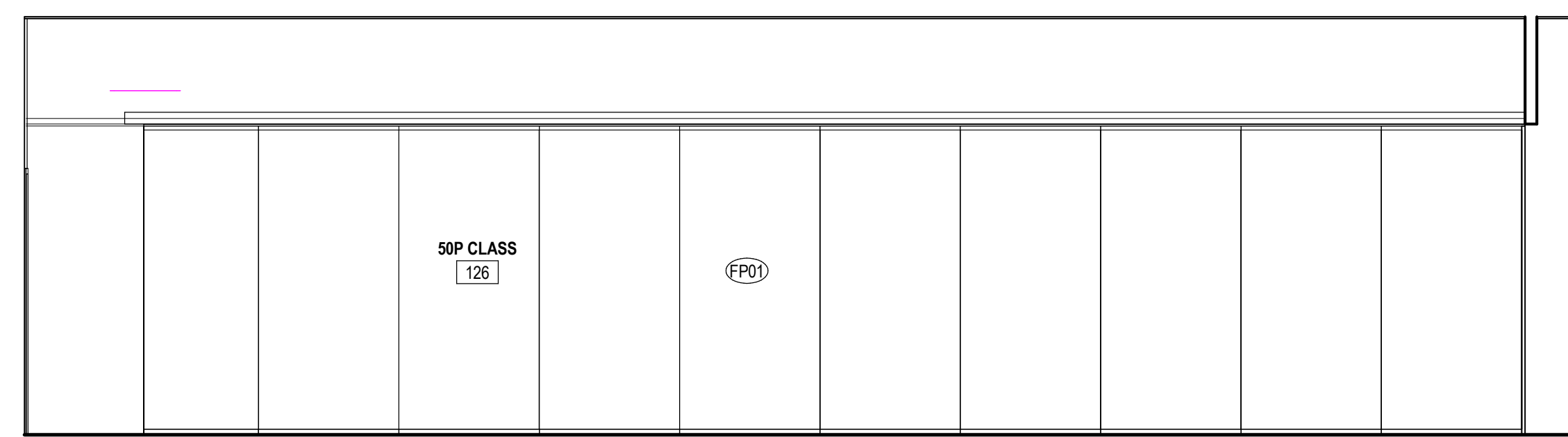
**A ENLARGED PLAN 50P CLASSROOM 126/128**  
1/4" = 1'-0"



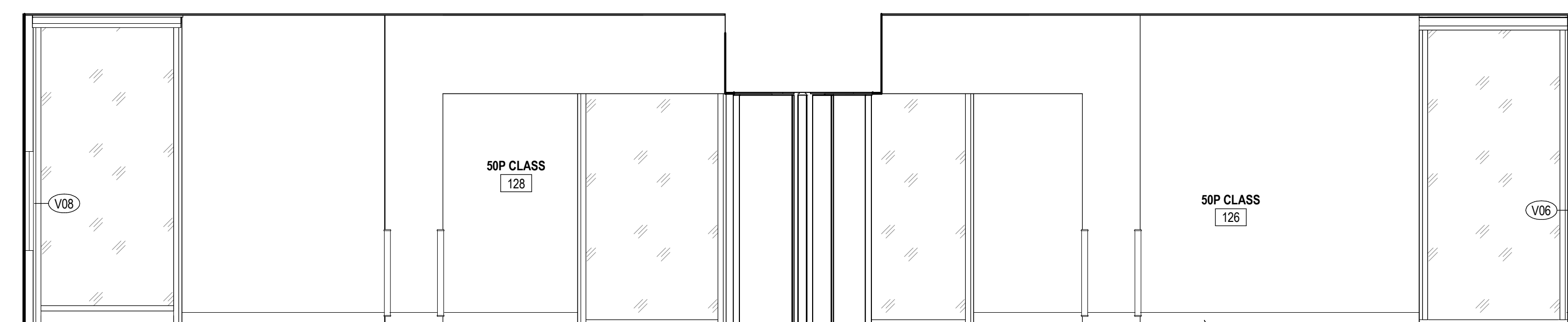
**B INTERIOR ELEVATION 50P CLASSROOM 126/128**  
1/4" = 1'-0"



**C INTERIOR ELEVATION 50P CLASSROOM 126/128**  
1/4" = 1'-0"



**D INTERIOR ELEVATION - 50P CLASSROOM 126/128**  
1/4" = 1'-0"



**E INTERIOR ELEVATION 50P CLASSROOM 126/128**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100 - VISUAL DISPLAY SURFACES			
V01	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V08	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (2' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
10 2299 - FOLDING PANEL PARTITIONS			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
10 2600 - WALL & DOOR PROTECTION			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
10 2800 - TOILET ACCESSORY			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L-SHAPED, 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L-SHAPED, 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
10 4313 - DEFIBRILLATOR CABINETS			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
10 4413 - FIRE EQUIPMENT			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
10 5113 - LOCKERS			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
11 1319 - LOADING DOCK EQUIPMENT			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
11 5200 - AV EQUIPMENT			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
11 5213 - PROJECTION SCREENS			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
12 2413 - ROLLER WINDOW SHADES			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
APPLIANCES			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
EQUIPMENT			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

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RESERVED FOR AHJ STAMP



BP-04F

MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



ARCHITECTURAL

PROJECT 202170  
DATE 08.29.24

REVISIONS

No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART FOR ANY PURPOSES OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO REUSE THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

ENLARGED PLANS - 50P CLASSROOM 126/128

A-425

Autodesk, Docs/2023, JD - UK Health Education Building/2584-JHHEB\_ARCH1-04



SPECIALTIES & EQUIPMENT SCHEDULE

MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
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V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (6' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (8' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
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T04	GRAB BAR - L SHAPED, 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

CEILING TYPES

TYPE	DESCRIPTION
APC-01	2' x 2' ACOUSTICAL PANEL SYSTEM (09 5113)
APC-02	2' x 2' ACOUSTICAL PANEL SYSTEM - CONCEALED GRID (09 5113)
APC-03	2' x 2' ACOUSTICAL PANEL SYSTEM - HUMIDITY RESISTANT (09 5113)
APC-04	2' x 2' ACOUSTICAL PANEL SYSTEM - HEALTH (09 5113)
APC-05	2' x 2' ACOUSTICAL PANEL SYSTEM - CERAMAGUARD (09 5113)
EXP.	EXPOSED STRUCTURE, REFER TO RCP FOR PAINT
GYP-P-03	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 03
GYP-P-04	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 04
GYP-P-05	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 05
GYP-P-07	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 07
GYP-P-08	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 08
GYP-P-09	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 09
GYP-01	5/8" GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-02	5/8" MOULDED & MOISTURE RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-2HR	2 HR RATED HORIZONTAL ASSEMBLY
MBC-01	METAL BAFFLE CEILING (09 9000)
MPC-01	ARKTURA PERFORATED METAL PANEL CEILING - (XX XXXX)
SAC-01	SOUND ABSORBING CEILING BAFFLES (09 5113)
WPC-01	LINEAR WOOD PANEL CEILING (09 5426)
WPC-02	WOOD PANEL CEILING (09 5426)

**ENLARGED RCP - 50P CLASSROOM 126/128**  
1/4" = 1'-0"

**JRA**  
architects

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Lexington, Kentucky 40507  
859.252.6781

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**lo h+k**

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314.421.2000

**BP-04F**

**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY

**UK**

ARCHITECTURAL

PROJECT 202170

DATE 08.29.24

REVISIONS		
No.	Description	Date

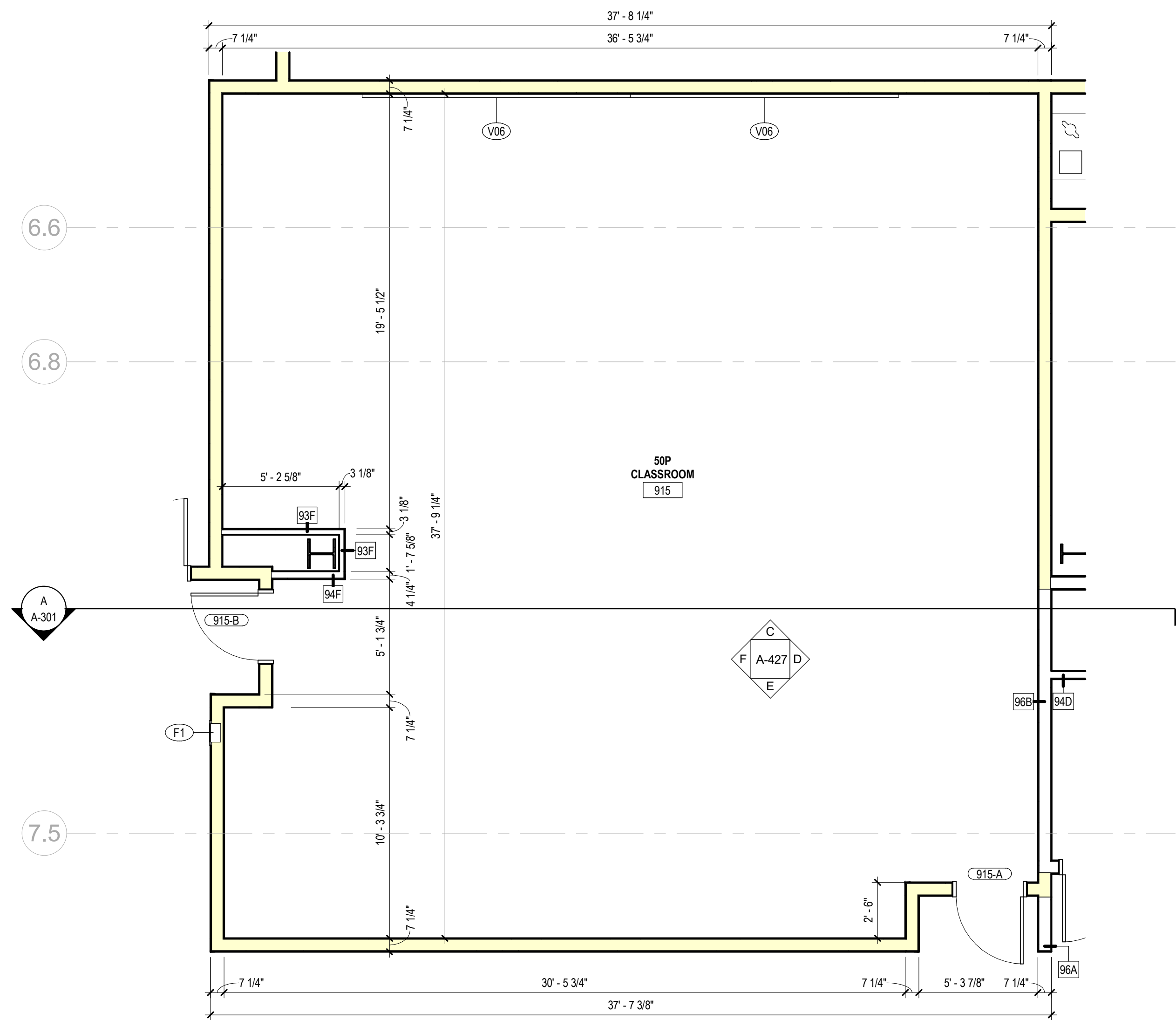
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**ENLARGED RCP - 50P CLASSROOM 126/128**

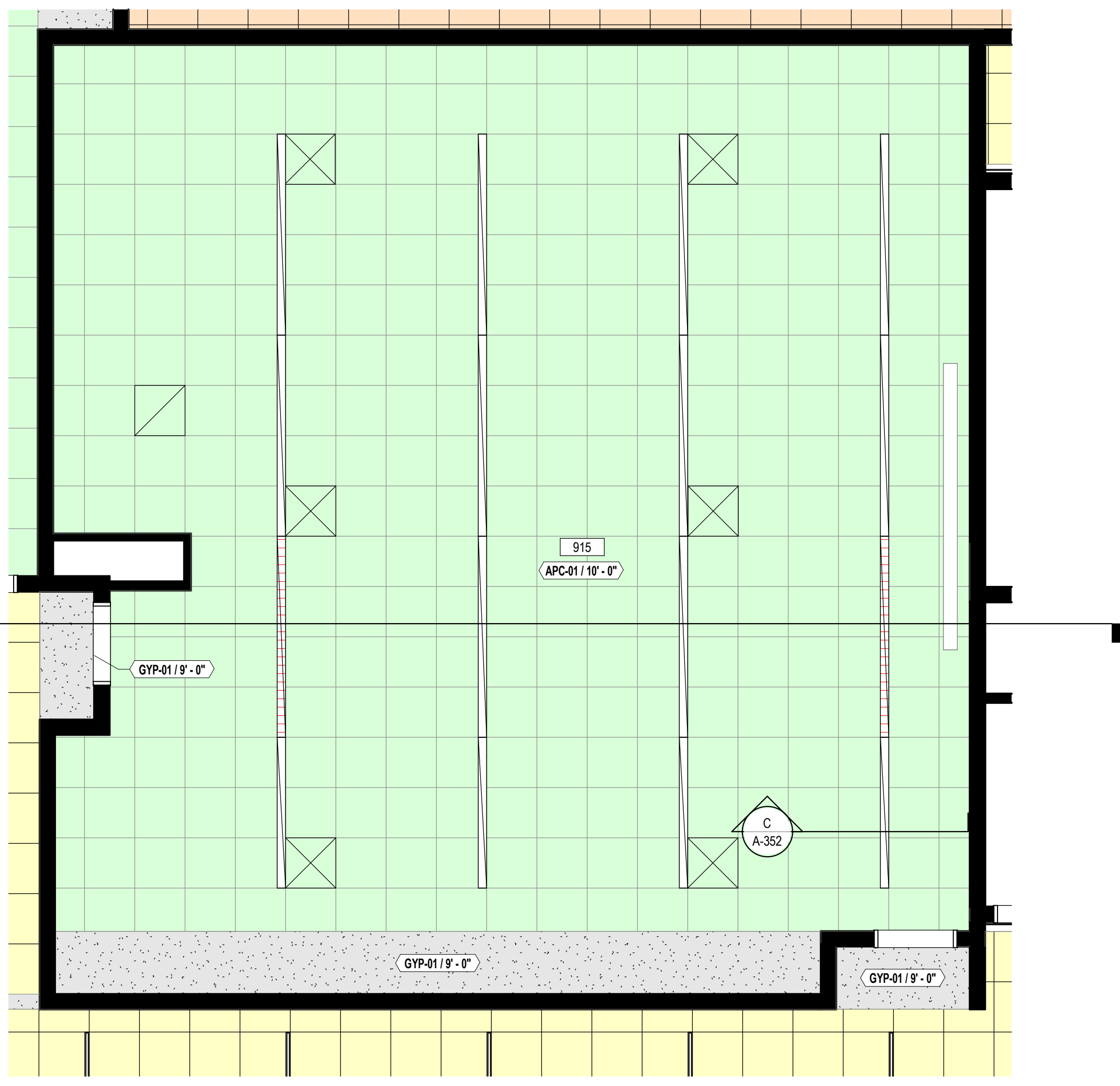
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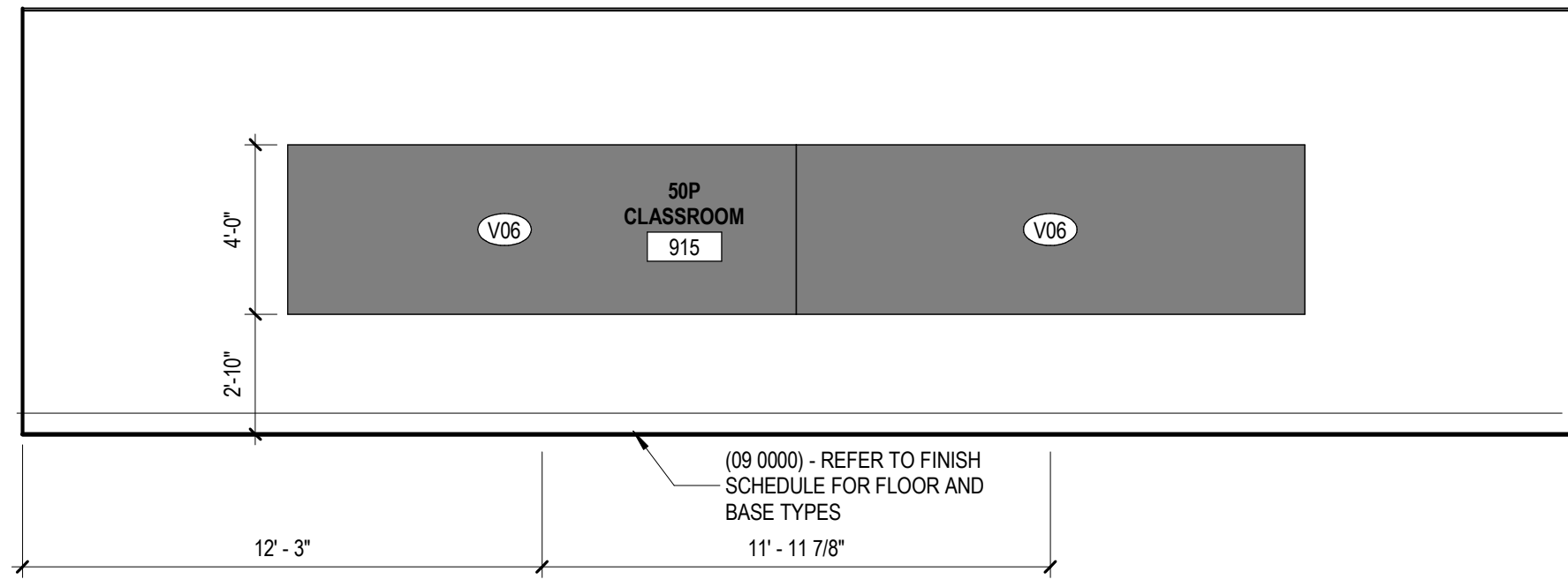
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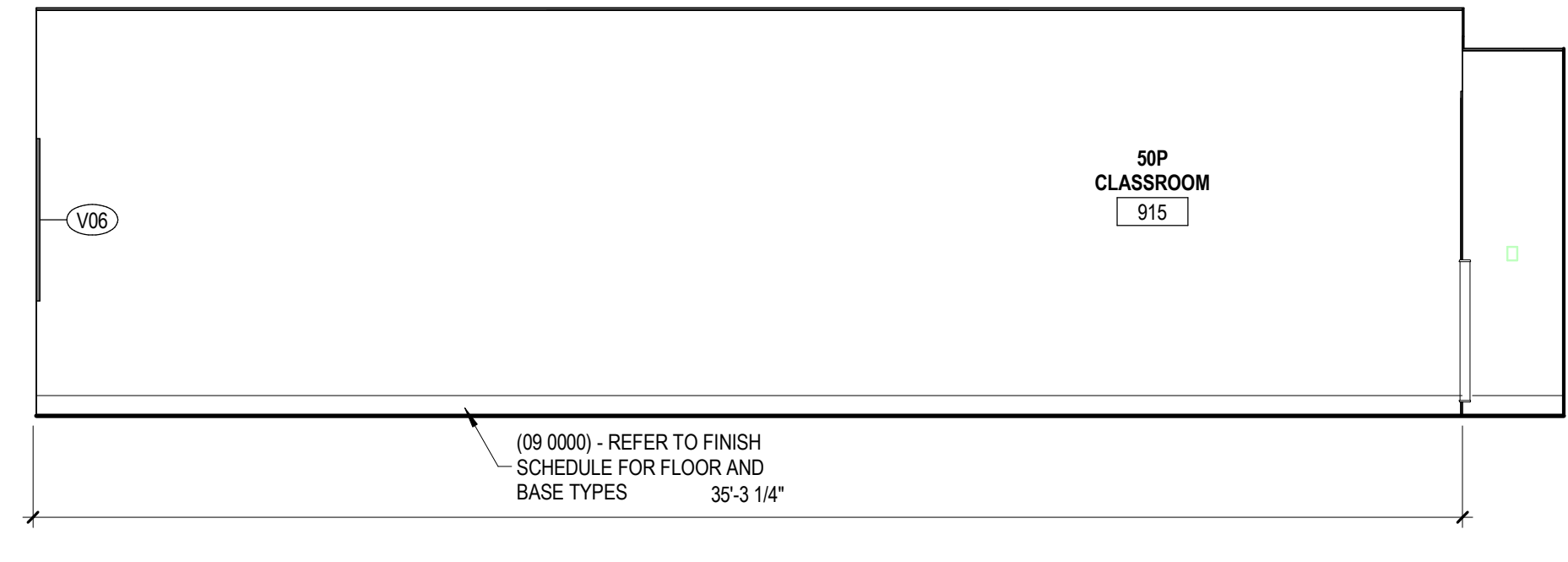
**A ENLARGED PLAN - 50P CLASSROOM 915**  
1/4" = 1'-0"



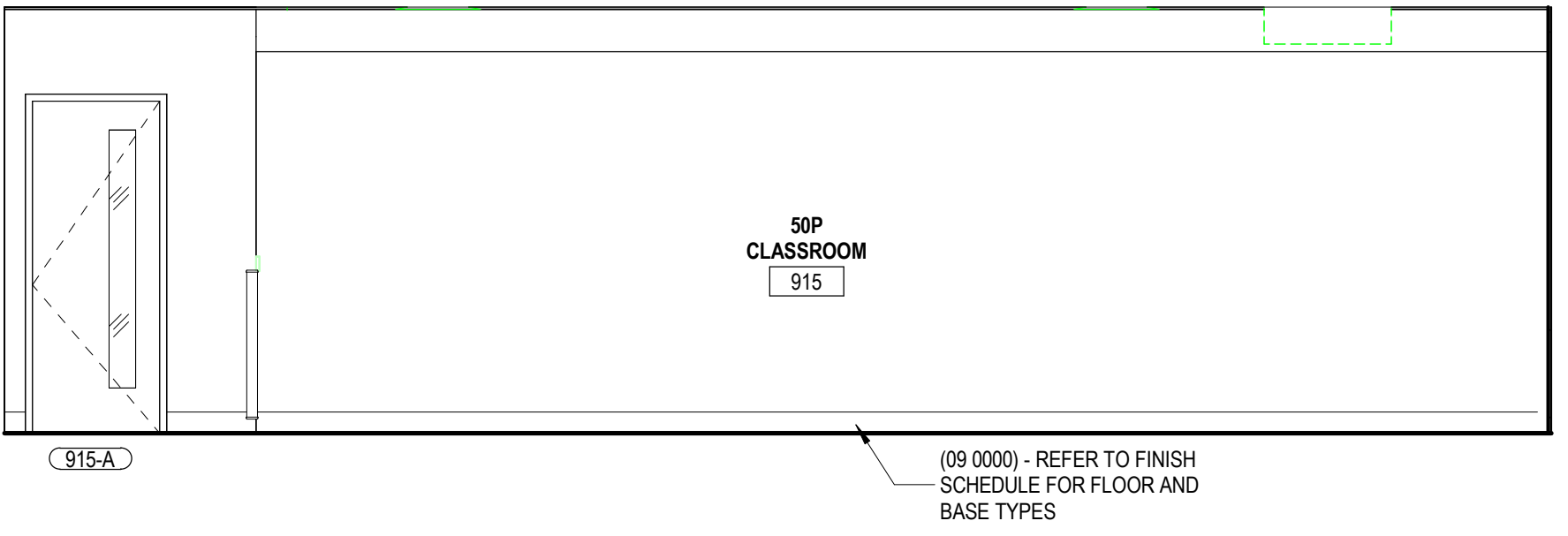
**B ENLARGED RCP - 50P CLASSROOM 915**  
1/4" = 1'-0"



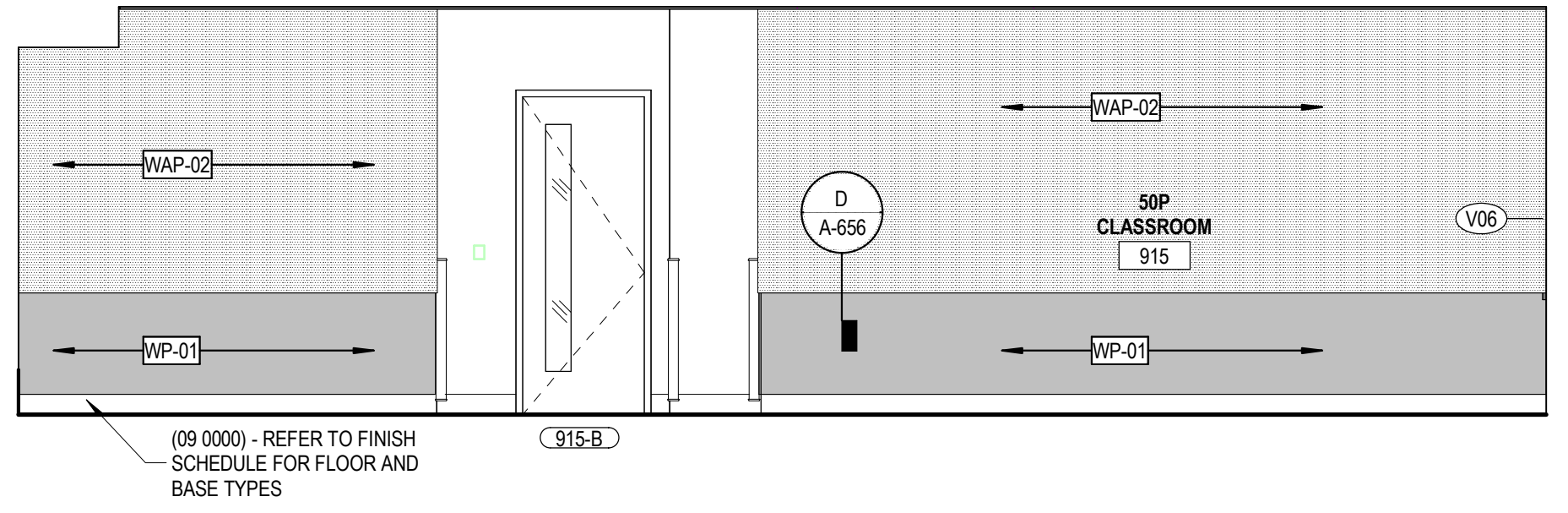
**C INTERIOR ELEVATION - 50P CLASSROOM 915**  
1/4" = 1'-0"



**D INTERIOR ELEVATION - 50P CLASSROOM 915**  
1/4" = 1'-0"



**E INTERIOR ELEVATION - 50P CLASSROOM 915**  
1/4" = 1'-0"



**F INTERIOR ELEVATION - 50P CLASSROOM 915**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4 X 6) (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4 X 7) (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4 X 7) (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4 X 12) (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4 X 12) (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4 X 4) (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4 X 4) (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10 X 4) (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10 X 4) (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4 X 10) (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4 X 4) (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4 X 6) (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (4 X 4) (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2 X 3) (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED: 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED: 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEBRILLATOR CABINETS</b>			
D1	DEBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPYER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

CEILING TYPES	
TYPE	DESCRIPTION
APC-01	2' x 2' ACOUSTICAL PANEL SYSTEM (09 5113)
APC-02	2' x 2' ACOUSTICAL PANEL SYSTEM - CONCEALED GRID (09 5113)
APC-03	2' x 2' ACOUSTICAL PANEL SYSTEM - HUMIDITY RESISTANT (09 5113)
APC-04	2' x 2' ACOUSTICAL PANEL SYSTEM - HEALTHY (09 5113)
APC-05	2' x 2' ACOUSTICAL PANEL SYSTEM - CERAMGUARD (09 5113)
EXP.	EXPOSED STRUCTURE. REFER TO RCP FOR PAINT
GYP-P-03	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 03
GYP-P-04	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 04
GYP-P-05	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 05
GYP-P-07	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 07
GYP-P-08	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 08
GYP-P-09	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 09
GYP-01	5/8" GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-02	5/8" MOISTURE & MOISTURE RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-2HR	2 HR RATED HORIZONTAL ASSEMBLY
MBC-01	METAL BAFFLE CEILING (09 5000)
MRP-01	AKRURA PERFORATED METAL PANEL CEILING - (VXX XXXX)
SAC-01	SOUND ABSORBING CEILING BAFFLES (09 5113)
WPC-01	LINEAR WOOD PANEL CEILING (09 5426)
WPC-02	WOOD PANEL CEILING (09 5426)



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Lexington, Kentucky 40507  
859.252.6781

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**BP-04F**

**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT	202170
DATE	08.29.24

REVISIONS		
No.	Description	Date

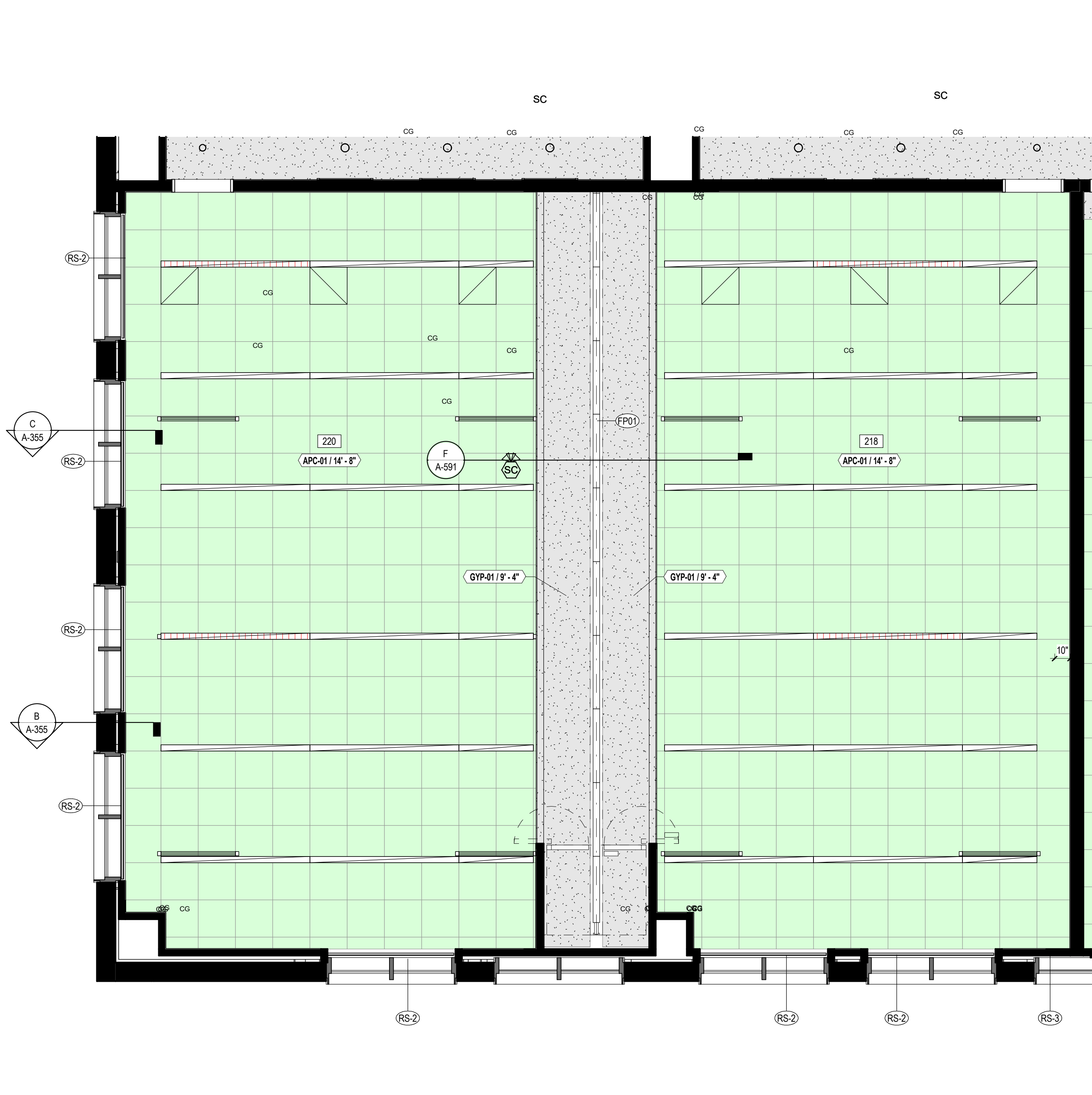
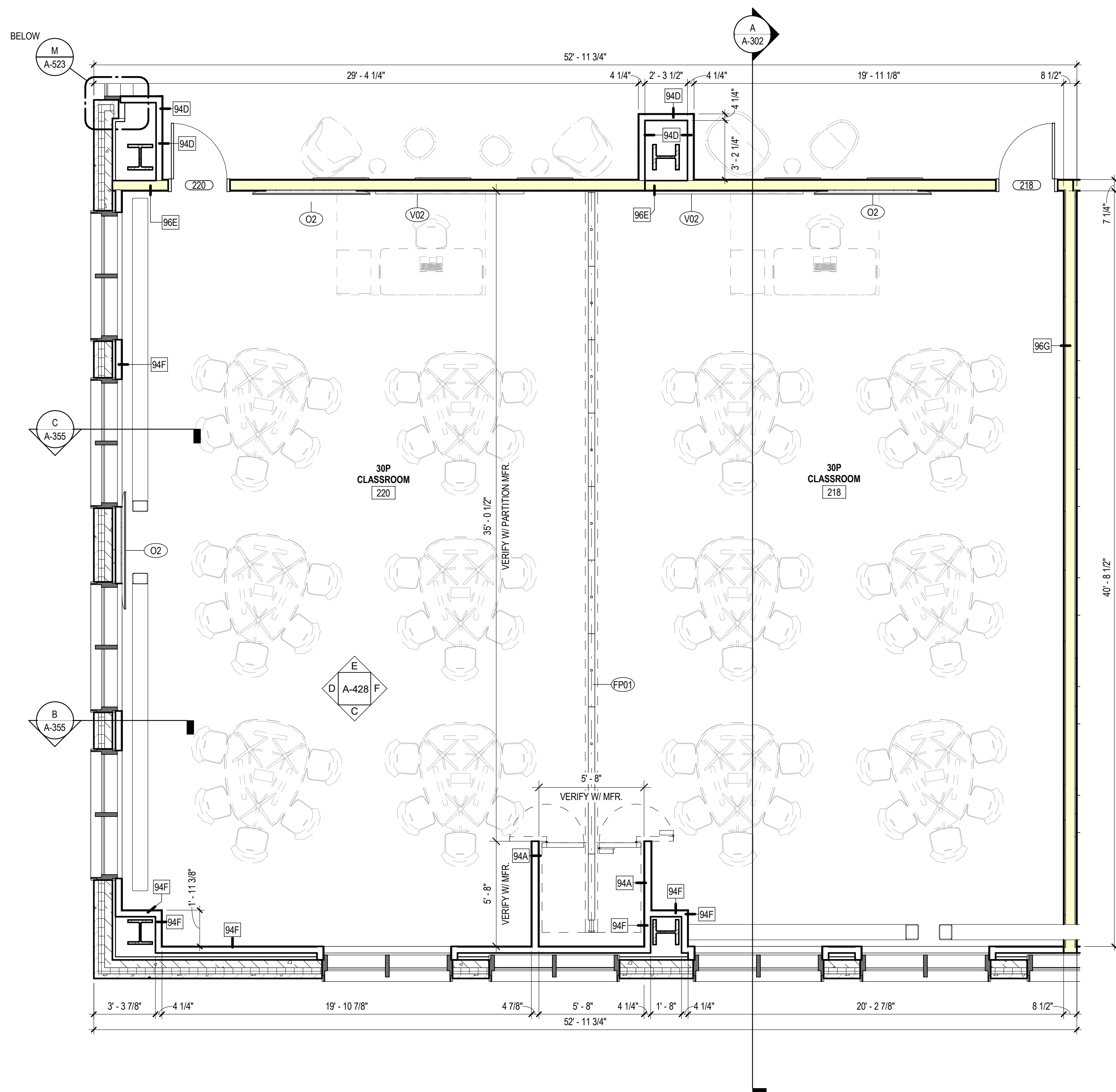
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**ENLARGED PLAN - 50P CLASSROOM 915**

**A-427**

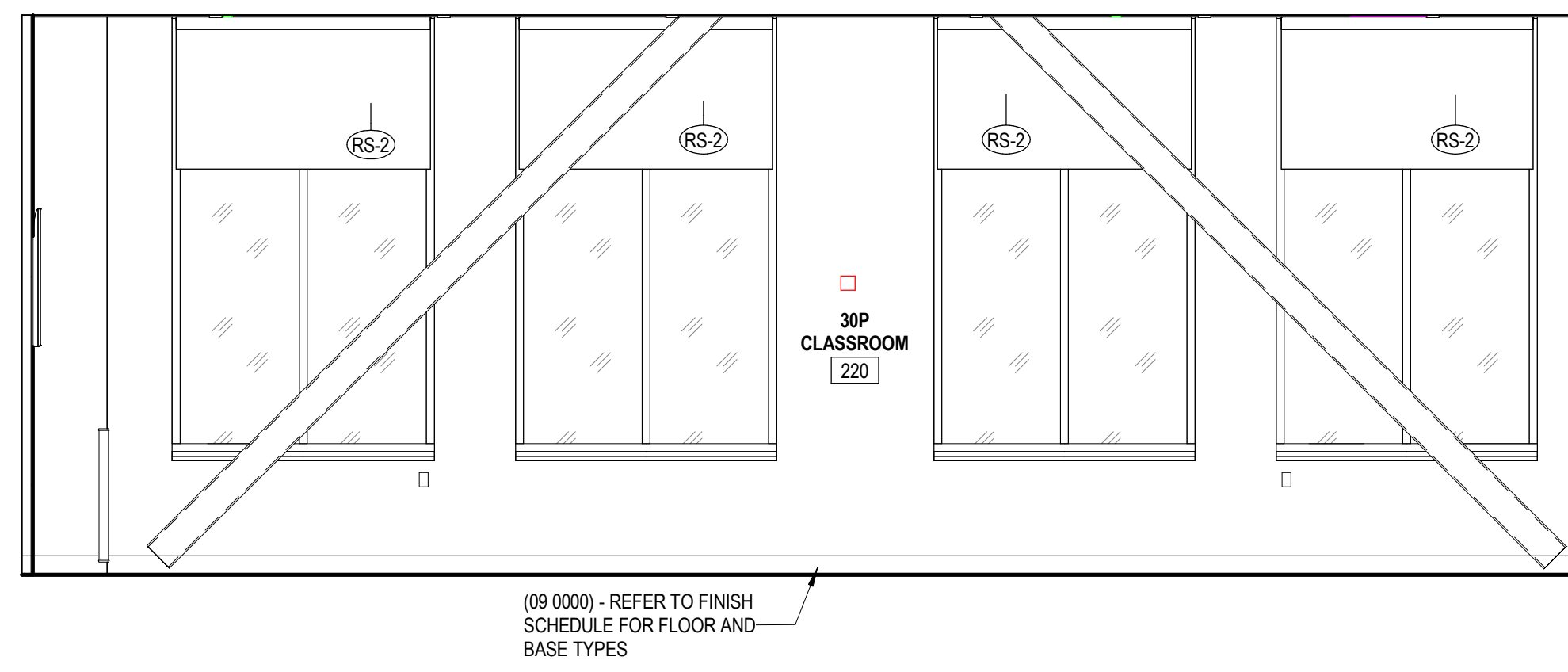
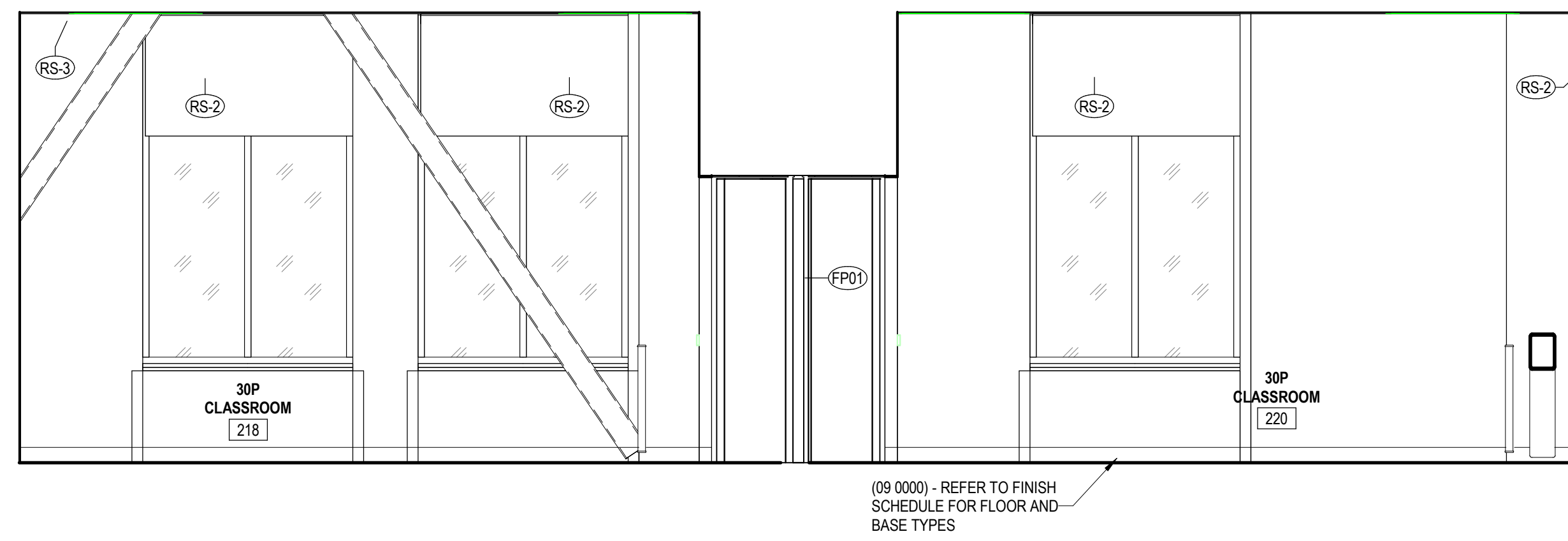
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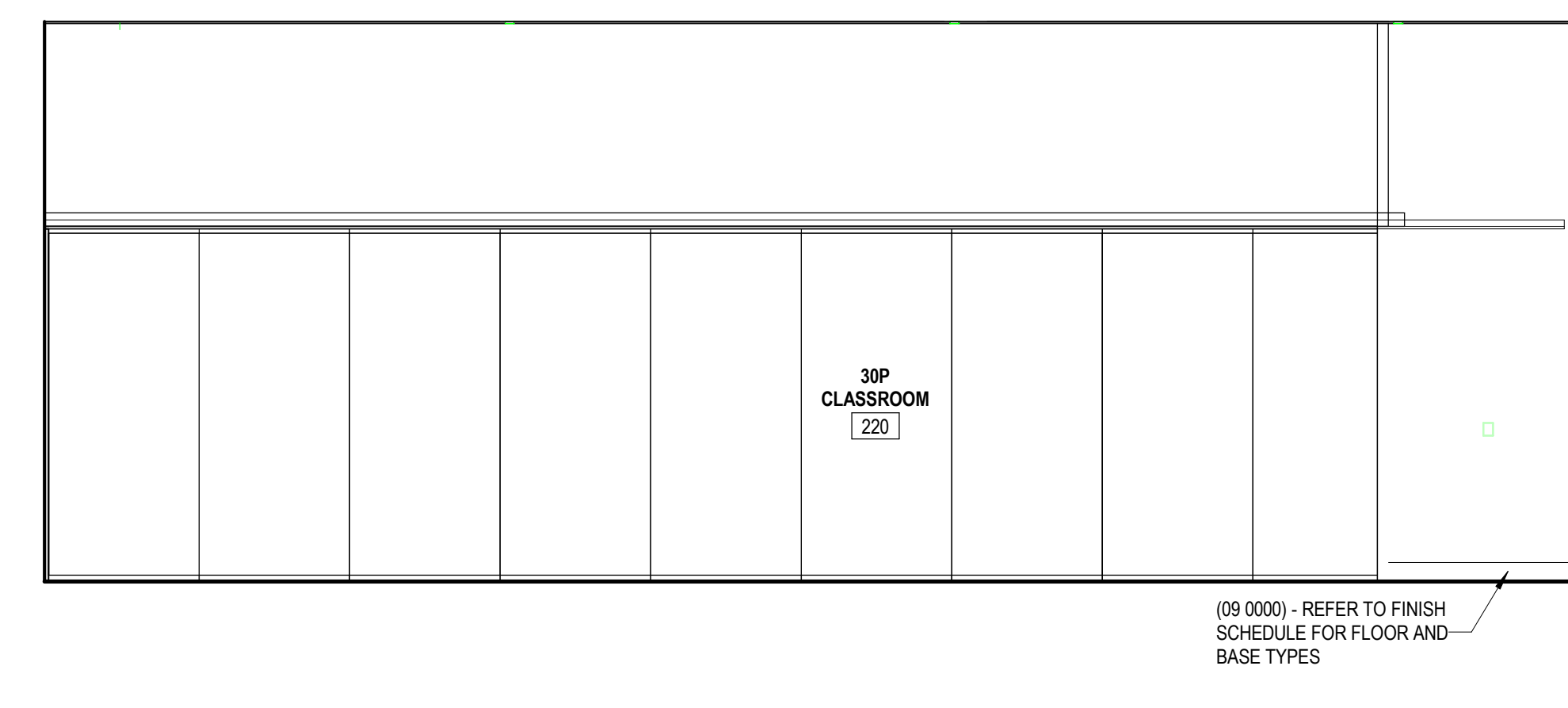
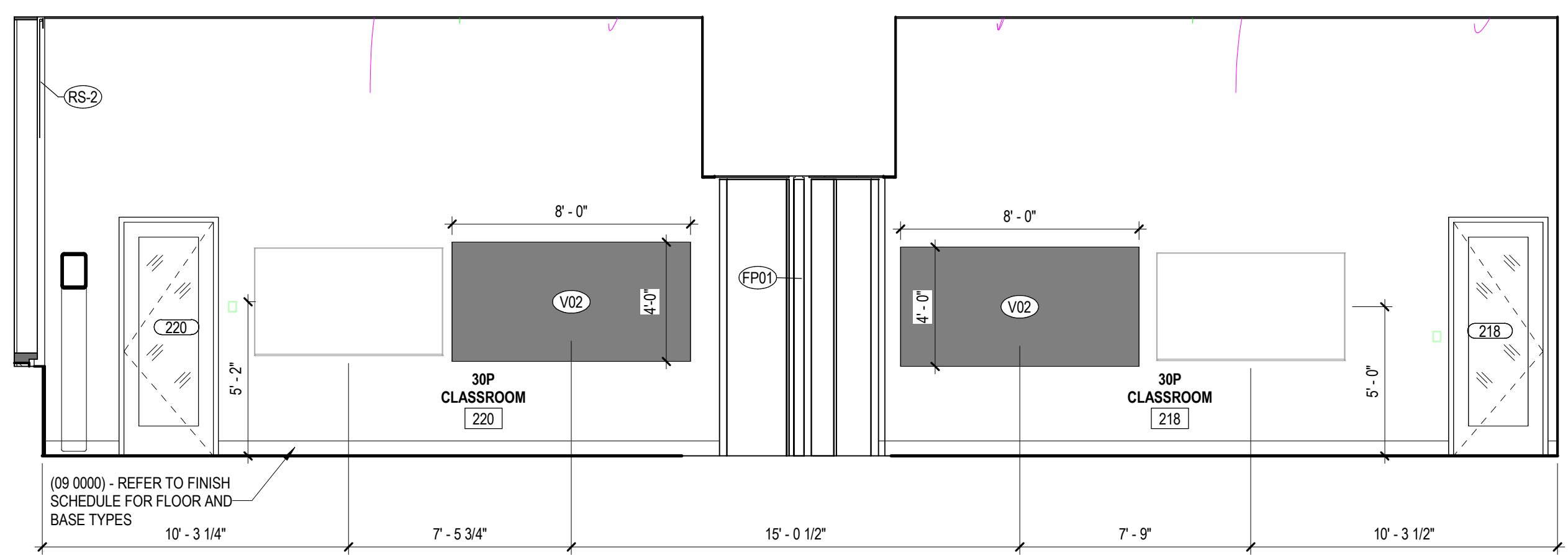
**A ENLARGED PLAN - 30P CLASSROOM 218/220**  
1/4" = 1'-0"

**B ENLARGED RCP - 30P CLASSROOM 218/220**  
1/4" = 1'-0"



**C INTERIOR ELEVATION - 30P CLASSROOM 218/220**  
1/4" = 1'-0"

**D INTERIOR ELEVATION - 30P CLASSROOM 218/220**  
1/4" = 1'-0"



**E INTERIOR ELEVATION - 30P CLASSROOM 218/220**  
1/4" = 1'-0"

**F INTERIOR ELEVATION - 30P CLASSROOM 218/220**  
1/4" = 1'-0"

**SPECIALTIES & EQUIPMENT SCHEDULE**

MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100	VISUAL DISPLAY SURFACES		
V01	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
10 2299	FOLDING PANEL PARTITIONS		
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
10 2600	WALL & DOOR PROTECTION		
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
10 2800	TOILET ACCESSORY		
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED, 27" x 38"	C.F.C.I.	
T04	GRAB BAR - L SHAPED, 18" x 38"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
10 4313	DEFIBRILLATOR CABINETS		
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
10 4413	FIRE EQUIPMENT		
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
10 5113	LOCKERS		
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 48" X 20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44" X 20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
11 1319	LOADING DOCK EQUIPMENT		
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
11 5200	AV EQUIPMENT		
O2	WALL MOUNTED MONITOR	C.F.C.I.	
11 5213	PROJECTION SCREENS		
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
12 2413	ROLLER WINDOW SHADES		
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	IE WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	

**CEILING TYPES**

TYPE	DESCRIPTION
APC-01	2' x 2' ACOUSTICAL PANEL SYSTEM - (09 5113)
APC-02	2' x 2' ACOUSTICAL PANEL SYSTEM - CONCEALED GRID (09 5113)
APC-03	2' x 2' ACOUSTICAL PANEL SYSTEM - HUMIDITY RESISTANT (09 5113)
APC-04	2' x 2' ACOUSTICAL PANEL SYSTEM - HEALTH (09 5113)
APC-05	2' x 2' ACOUSTICAL PANEL SYSTEM - CERAMGUARD (09 5113)
EXP.	EXPOSED STRUCTURE. REFER TO RCP FOR PAINT
GYP-P-03	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 03
GYP-P-04	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 04
GYP-P-05	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 05
GYP-P-07	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 07
GYP-P-08	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 08
GYP-P-09	5/8" GYPSUM BOARD ON METAL STUDS (09 2216) - PAINT 09
GYP-01	5/8" GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-02	5/8" MOLDED & MOISTURE RESISTANT GYPSUM BOARD ON METAL STUDS (09 2216)
GYP-2HR	2 HR RATED HORIZONTAL ASSEMBLY
MBC-01	METAL BAFFLE CEILING (09 5000)
MPC-01	ARKITURA PERFORATED METAL PANEL CEILING - (XX XXXX)
SAC-01	SOUND ABSORBING CEILING BAFFLES (09 5113)
WPC-01	LINEAR WOOD PANEL CEILING (09 5426)
WPC-02	WOOD PANEL CEILING (09 5426)

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UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY

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**ARCHITECTURAL**

PROJECT: 202170  
DATE: 08.29.24

**REVISIONS**

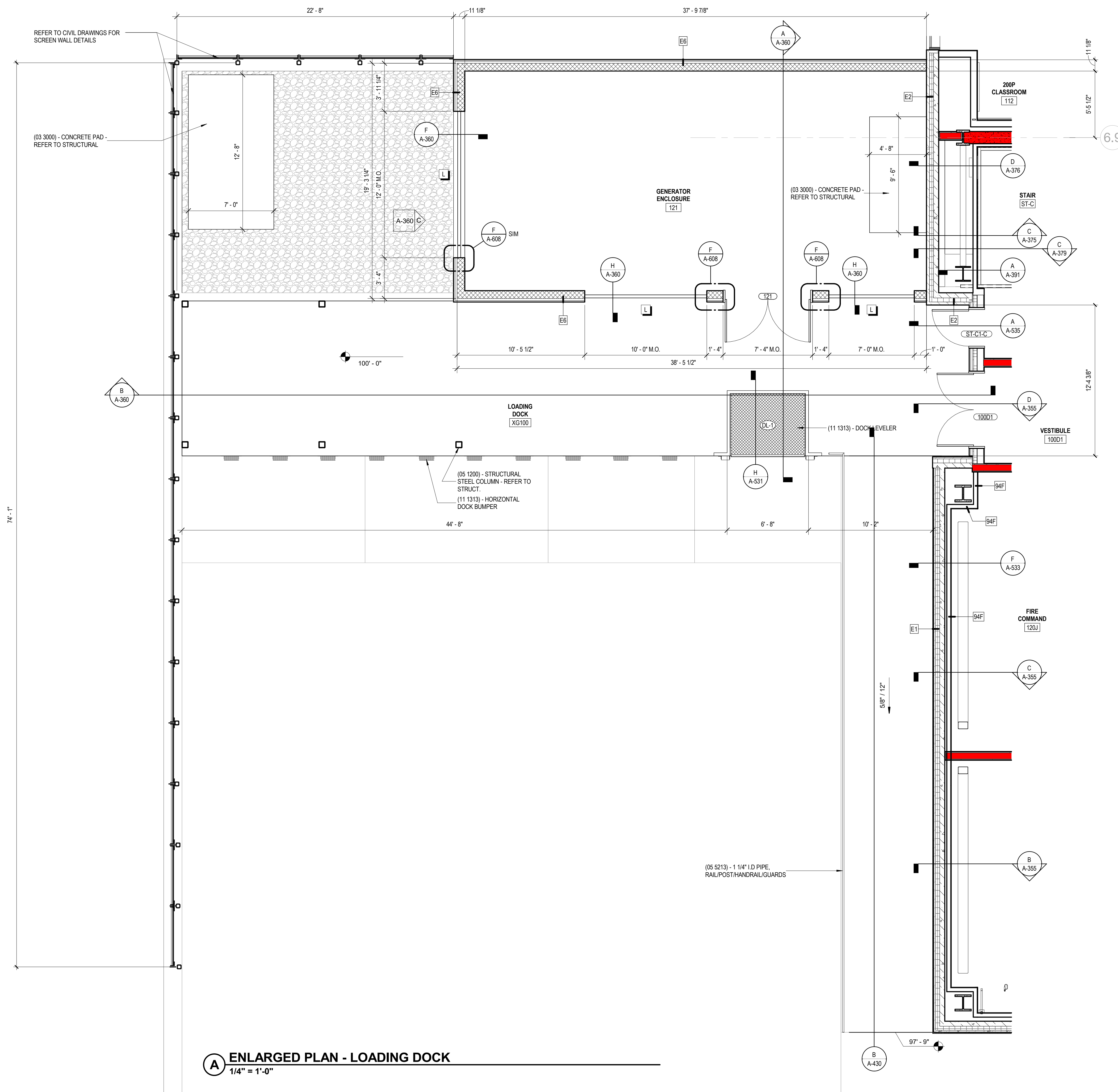
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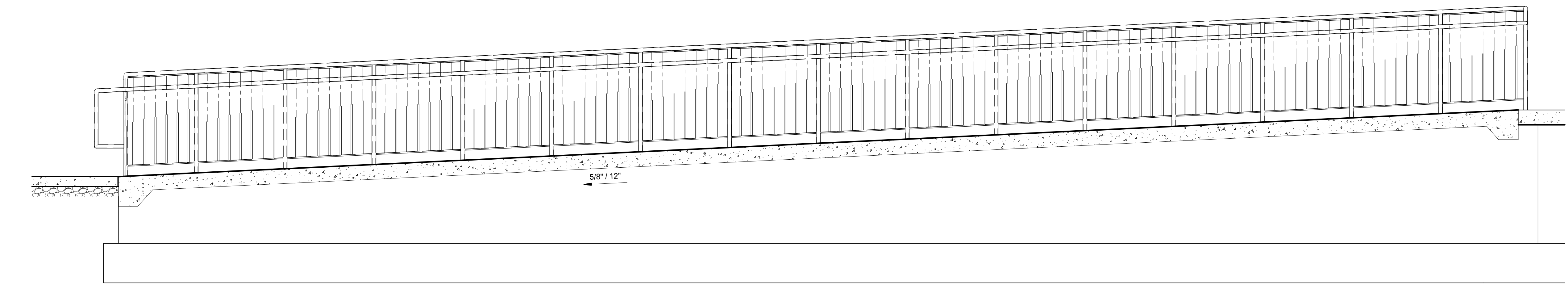
**ENLARGED PLANS - 30P CLASSROOM 218/220**

**A-428**  
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SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (8' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2299 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED, 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED, 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	ADA CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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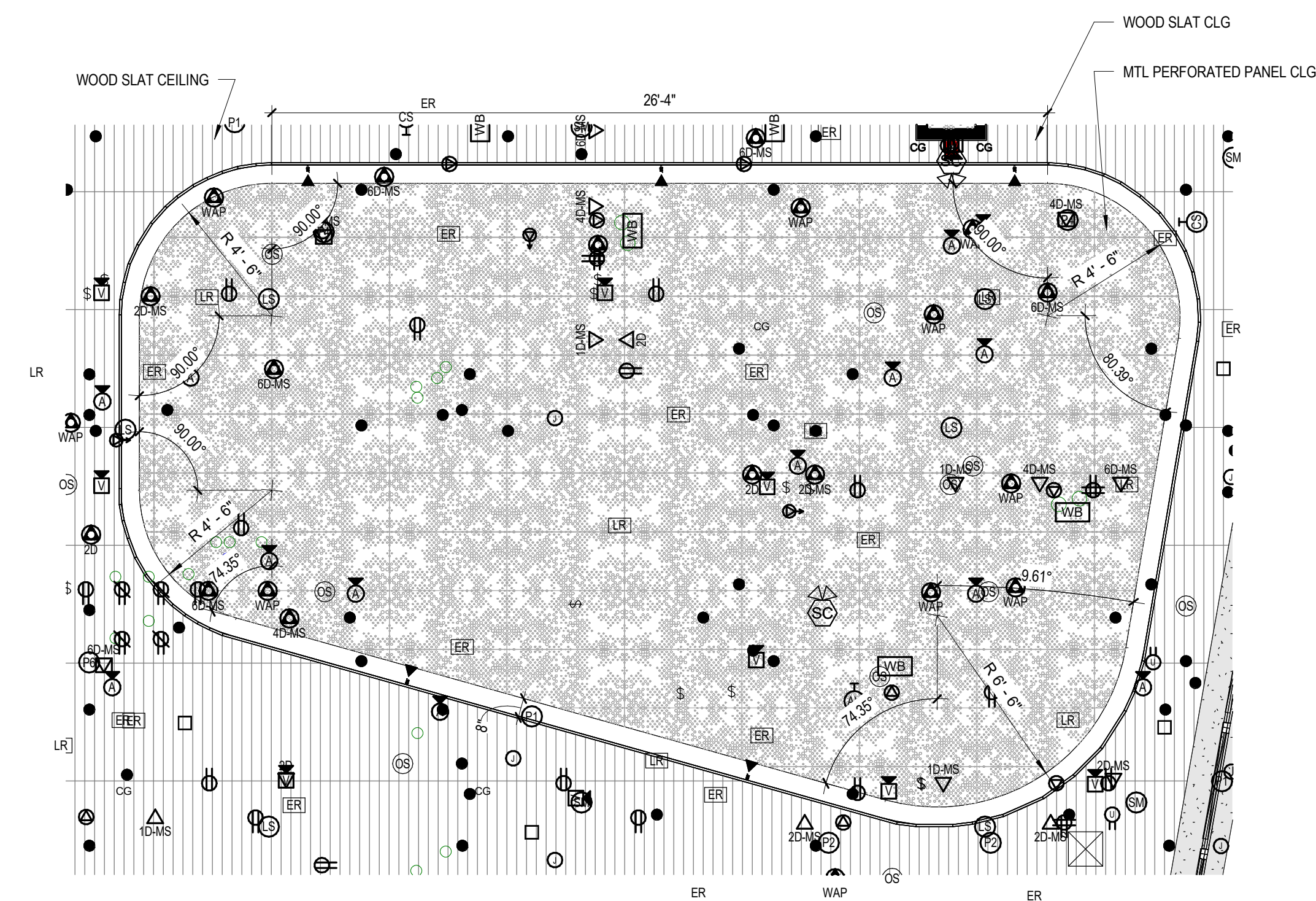
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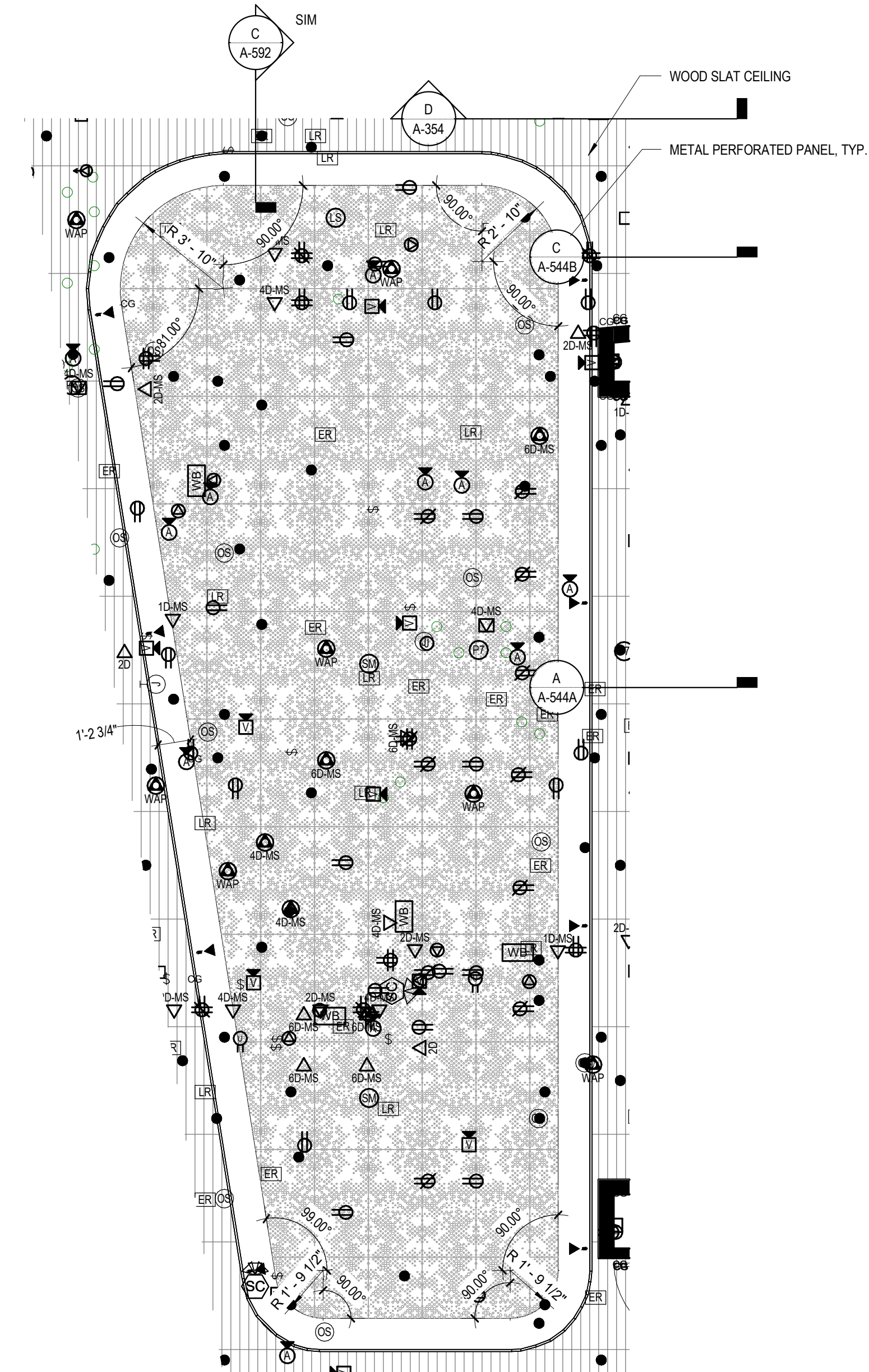
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**ENLARGED DETAILS - LOADING DOCK**

**A-430**



**B** ENLARGED RCP - LOBBY NORTH  
1/4" = 1'-0"



**C** ENLARGED RCP - LOBBY SOUTH  
1/4" = 1'-0"

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**ENLARGED  
RCP - ATRIUM**

**A-450**

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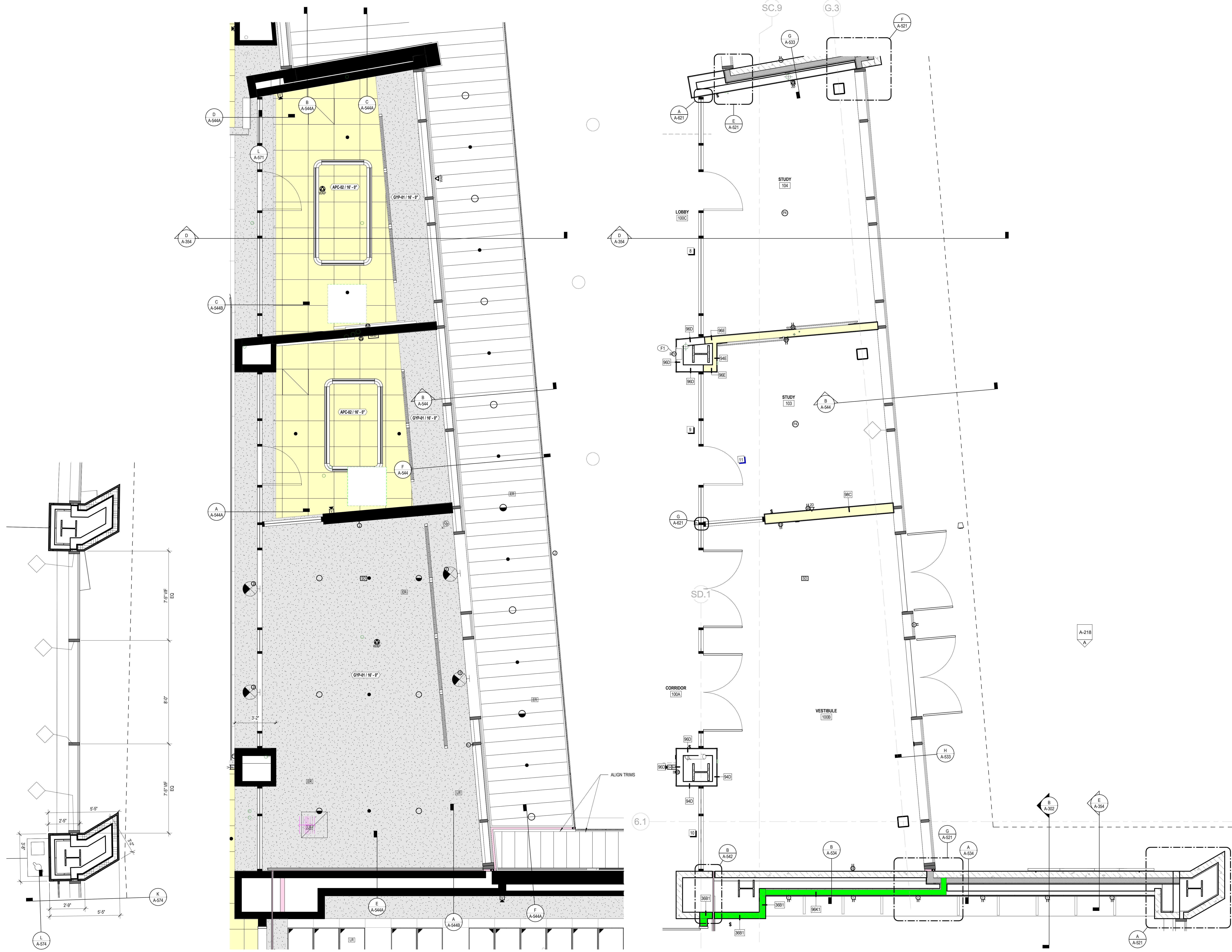
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ENLARGED PLANS

A-451

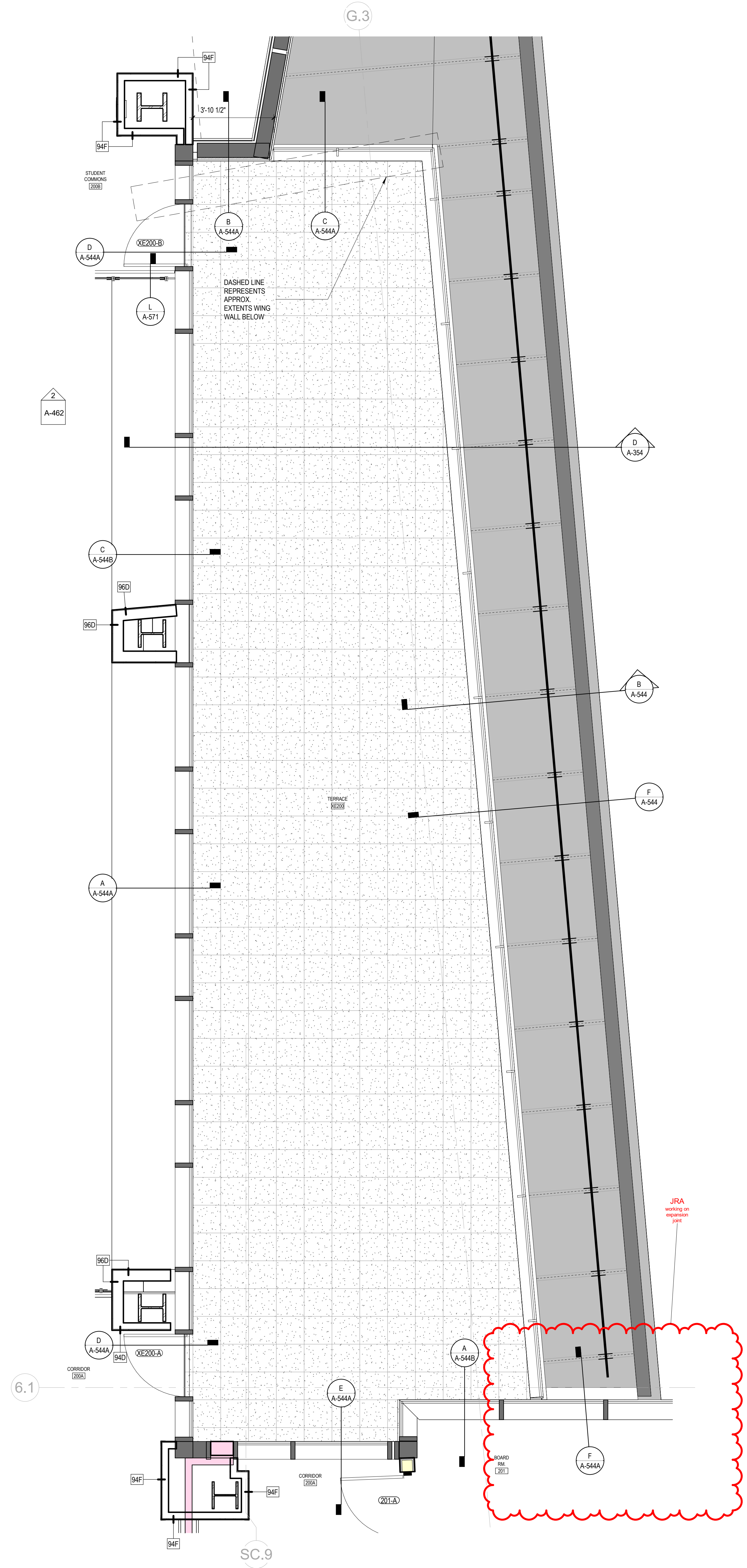
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**A** CALLOUT PLAN - FIRST FLOOR - AREA B - DETAIL 005  
3/8" = 1'-0"

**B** ENLARGED RCP - NORTH VESTIBULE  
3/8" = 1'-0"

**C** CALLOUT PLAN - FIRST FLOOR - AREA A - DETAIL 002  
3/8" = 1'-0"



**A** ENLARGED PLAN - SECOND FLOOR TERRACE  
3/8" = 1'-0"



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DATE 08.29.24

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No.	Description	Date
1	UNRESOLVED	Date 1

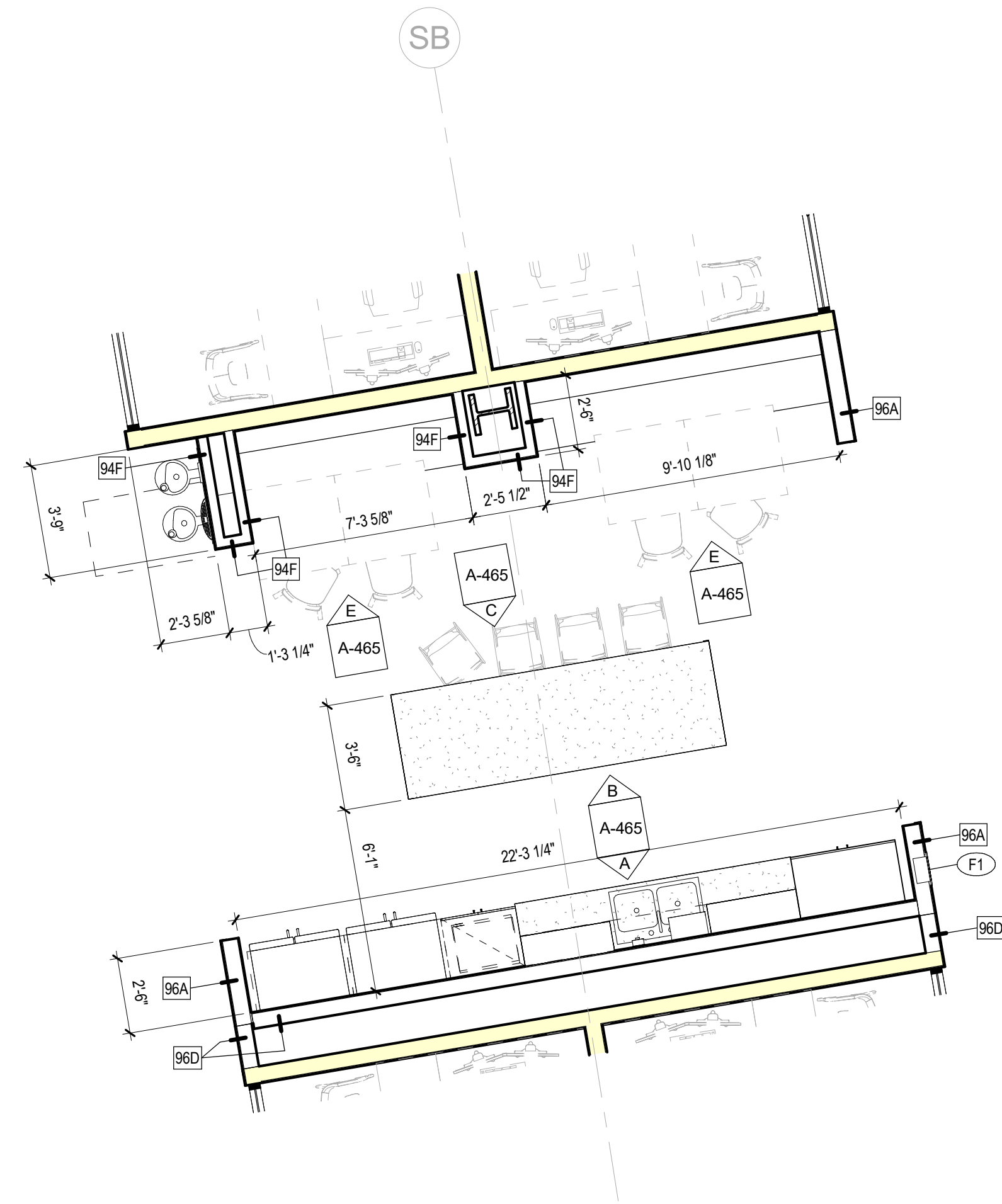
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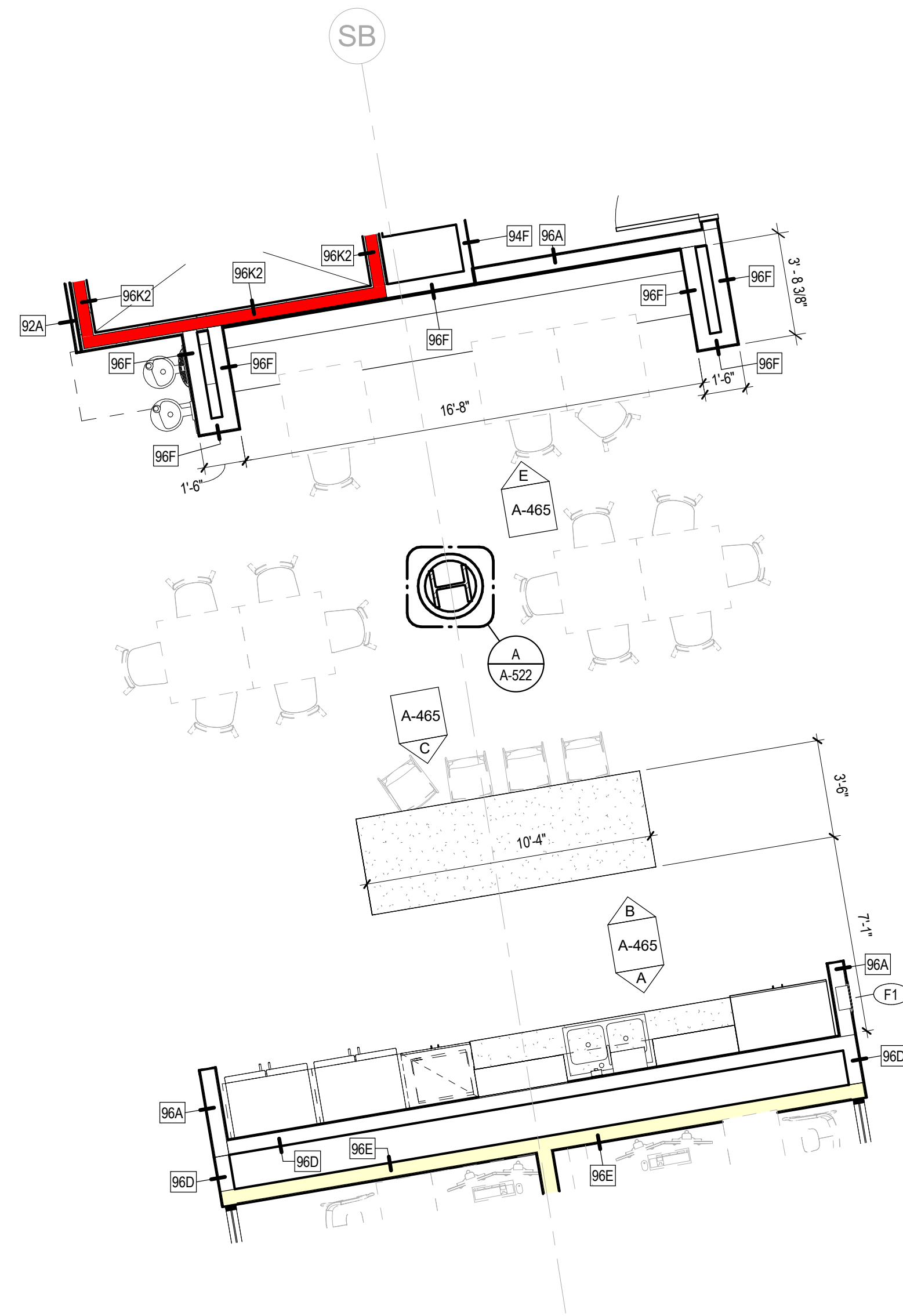
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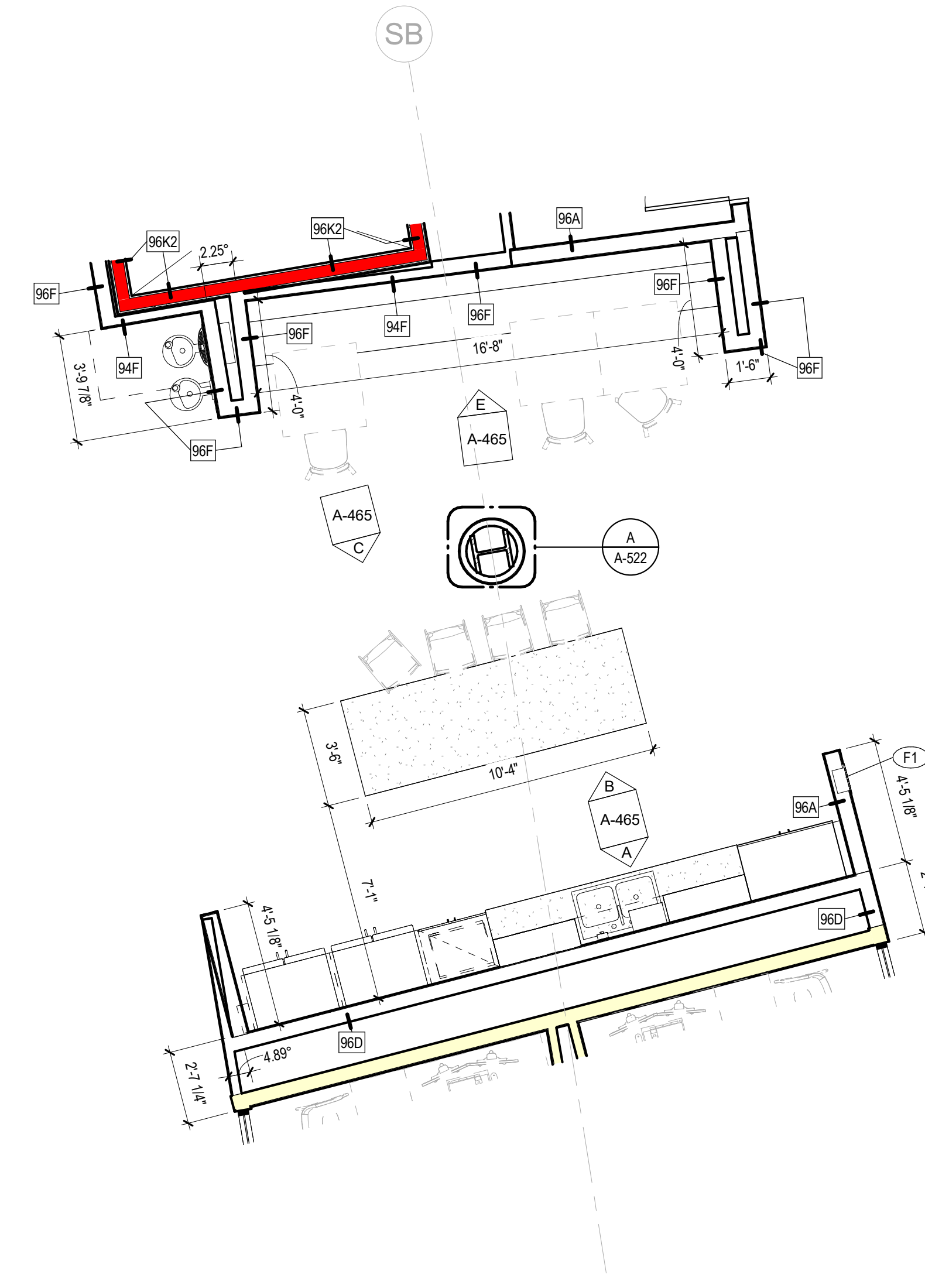




**A** WORKPLACE HUB - FLOOR 2  
1/4" = 1'-0"



**B** WORKPLACE HUB - FLOORS 4 & 5  
1/4" = 1'-0"



**C** WORKPLACE HUB - FLOOR 3 & 5  
1/4" = 1'-0"

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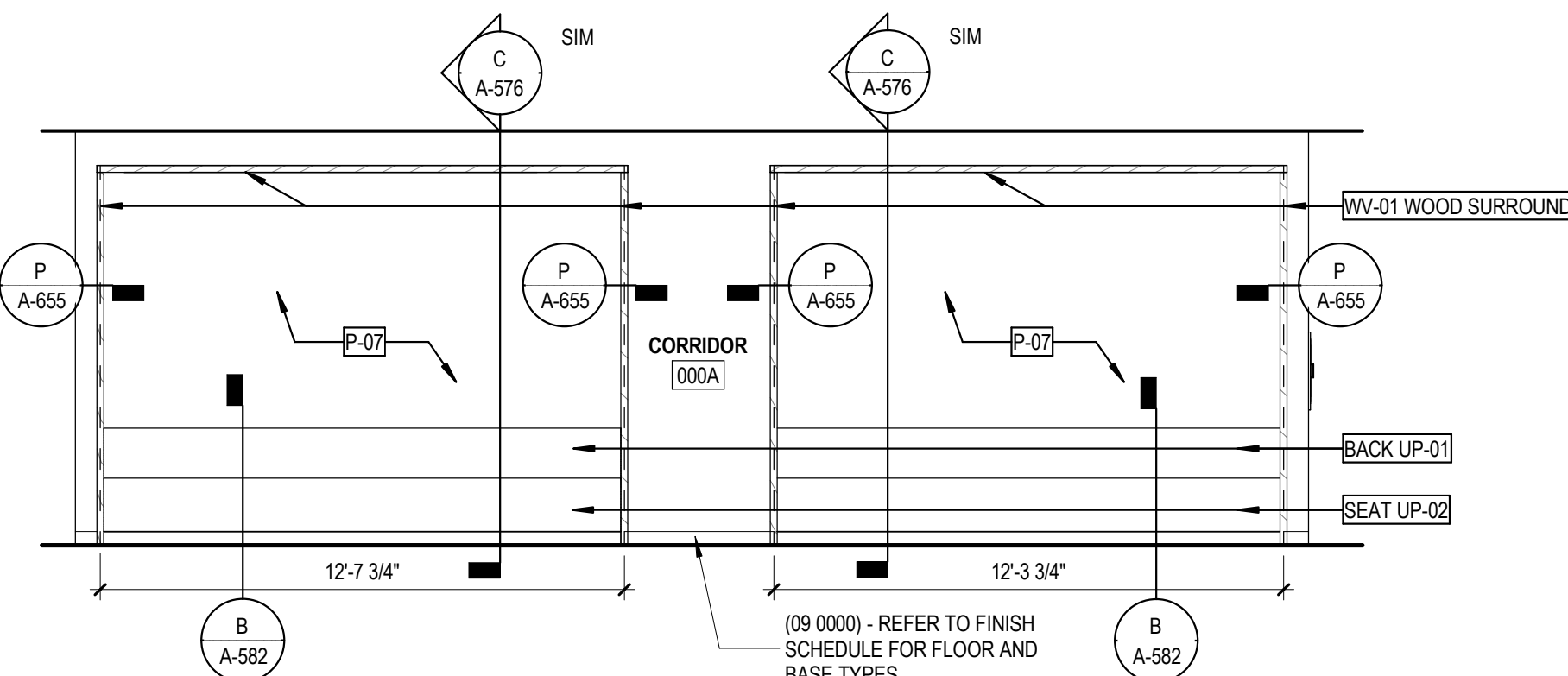
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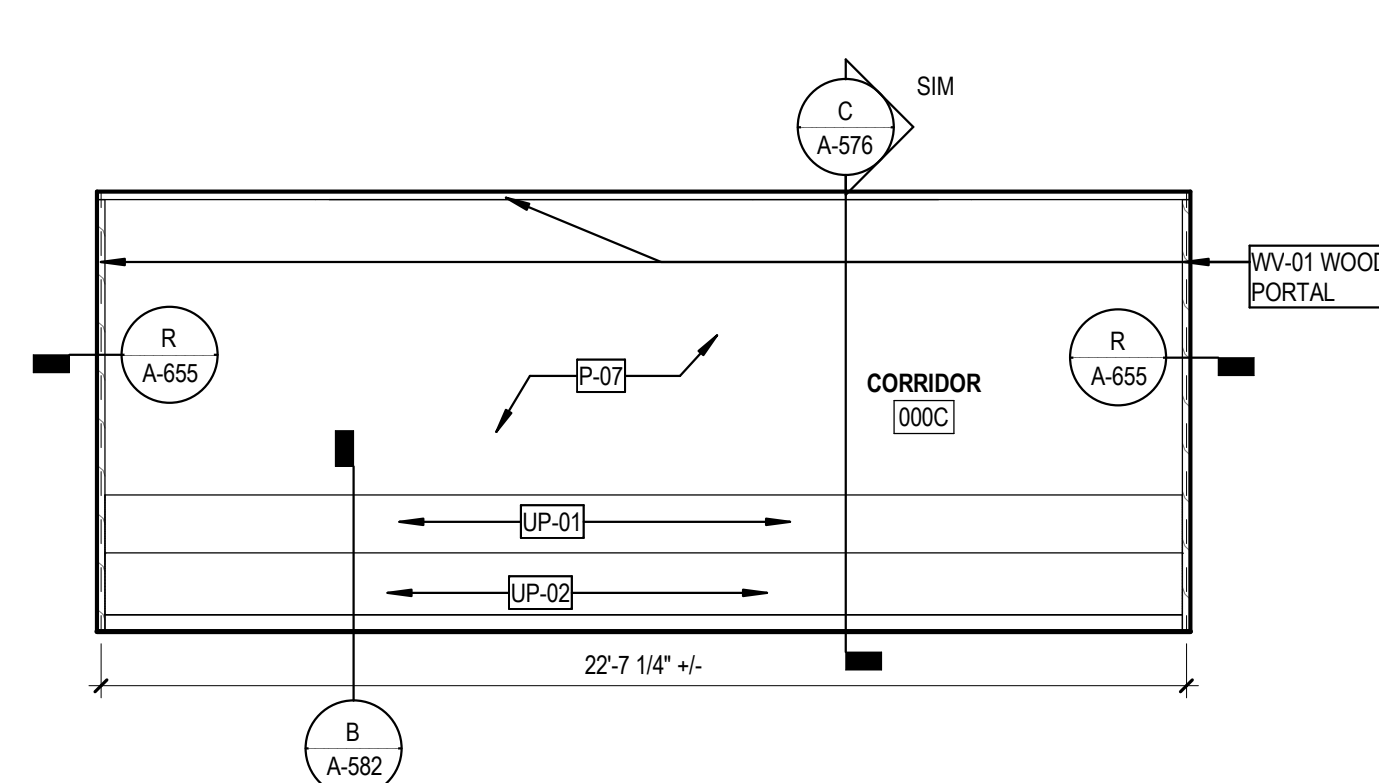
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ENLARGED  
PLANS

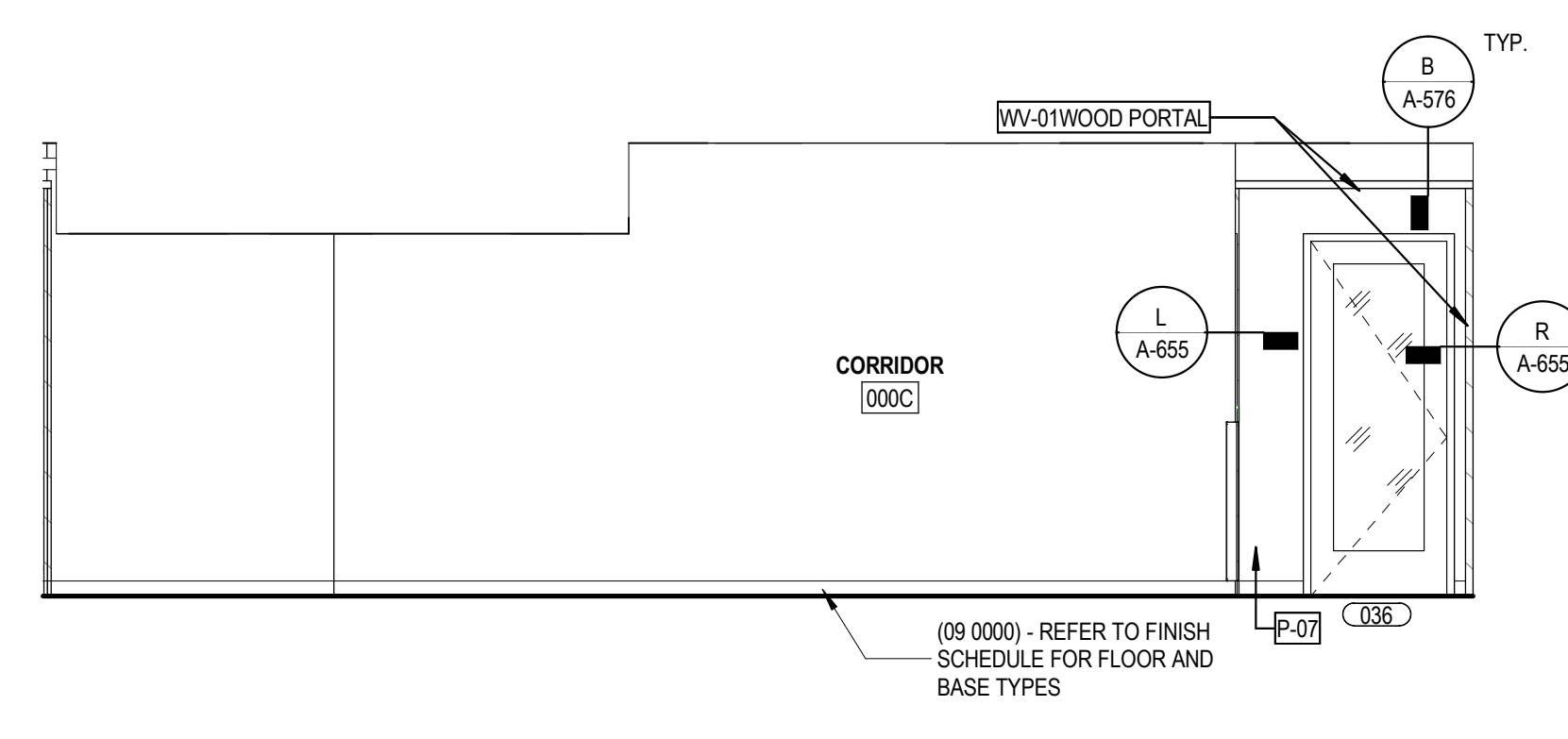
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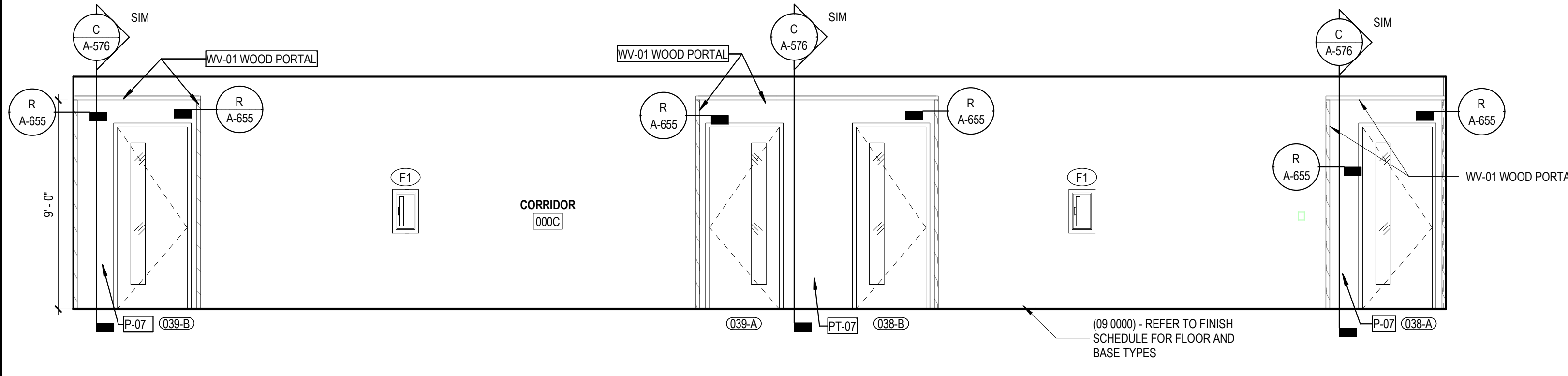
**A BASEMENT ELEV LOBBY - BOOTHS**  
1/4" = 1'-0"



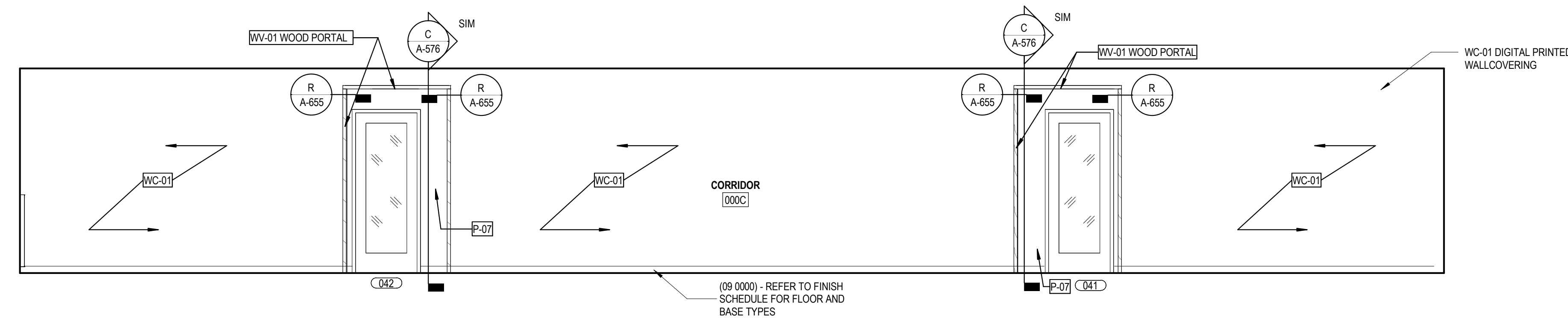
**B BASEMENT SOUTH WING - BOOTHS**  
1/4" = 1'-0"



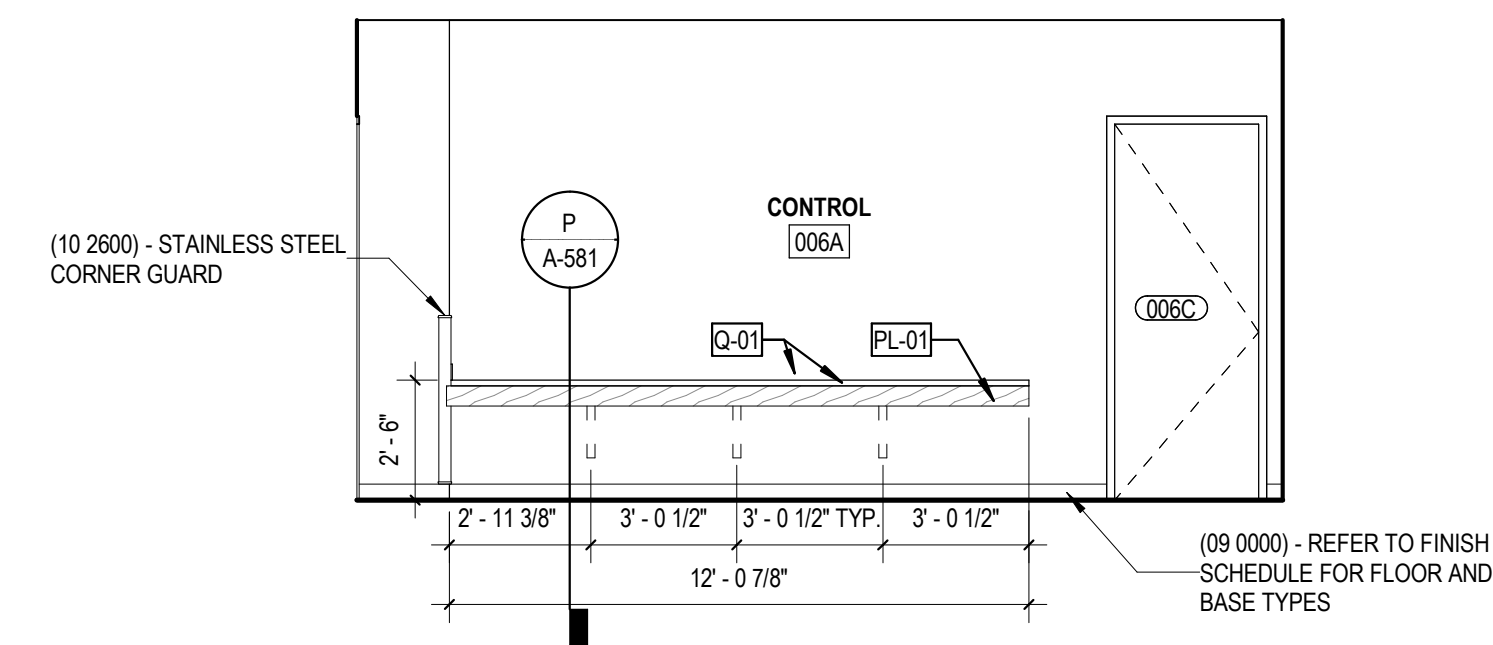
**C BASEMENT 12P SEMINAR ROOM - ENTRY**  
1/4" = 1'-0"



**D BASEMENT 50P CLASSROOM - ENTRY**  
1/4" = 1'-0"



**E BASEMENT STUDY AND 150P CLASSROOM - ENTRY**  
1/4" = 1'-0"



**F CONTROL ROOM WORKSPACE**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V10	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V11	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V12	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V13	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V14	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (2' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	varies
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED: 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED: 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER MOUNTED	O.F.O.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SCAMP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BROCKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER 5 OR 2 STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPIER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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BP-04F  
MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



ARCHITECTURAL

PROJECT 202170

DATE 08.29.24

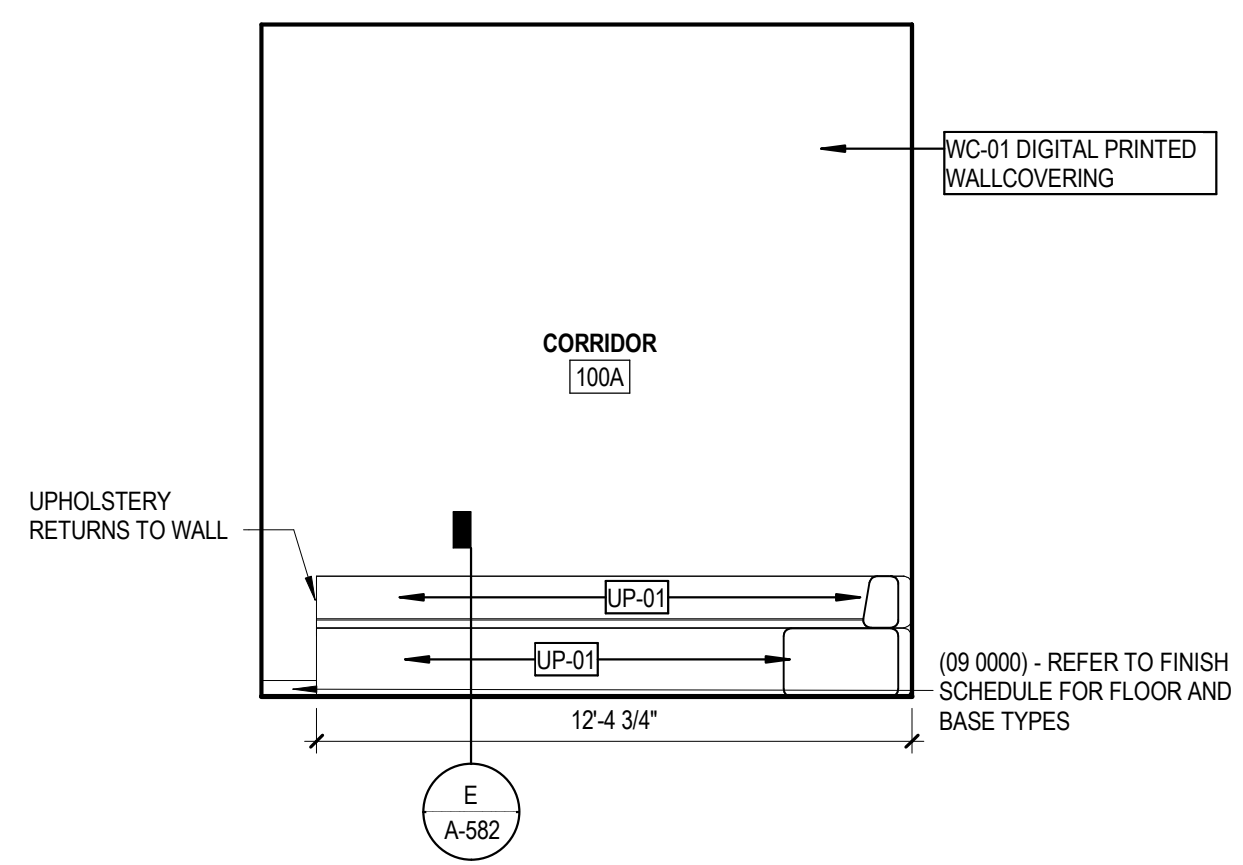
REVISIONS		
No.	Description	Date

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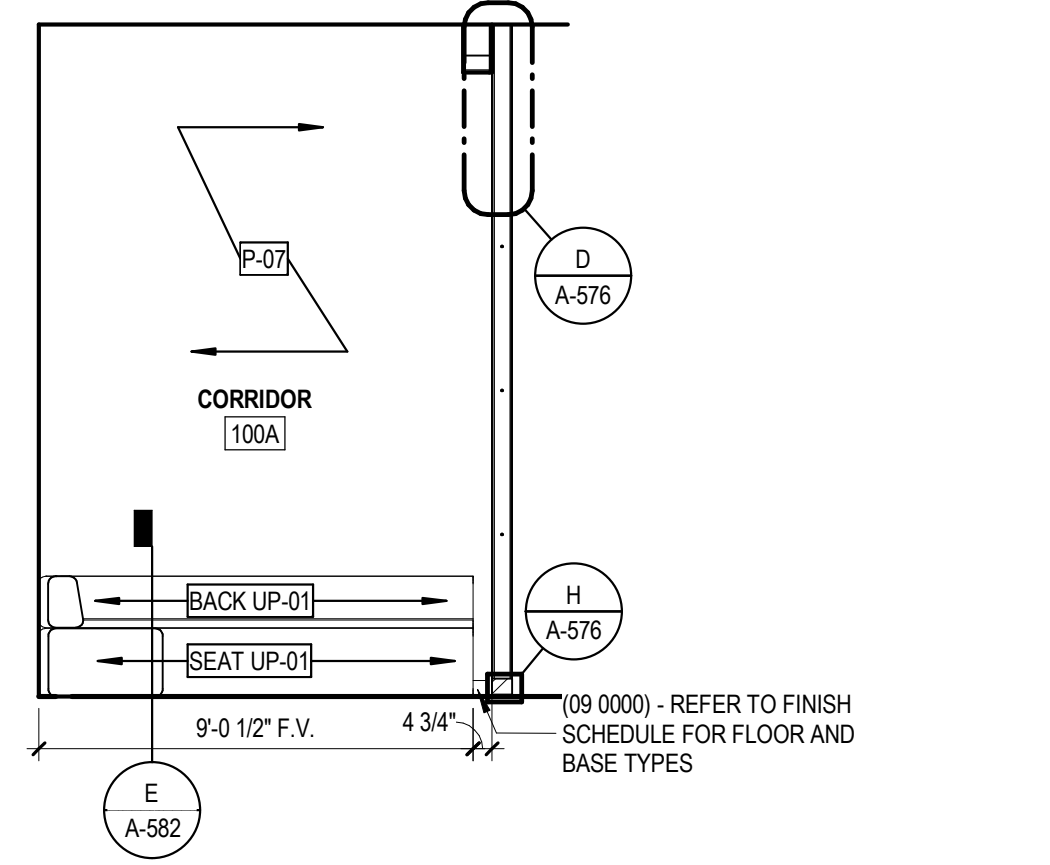
INTERIOR  
ELEVATIONS -  
BASEMENT

A-460

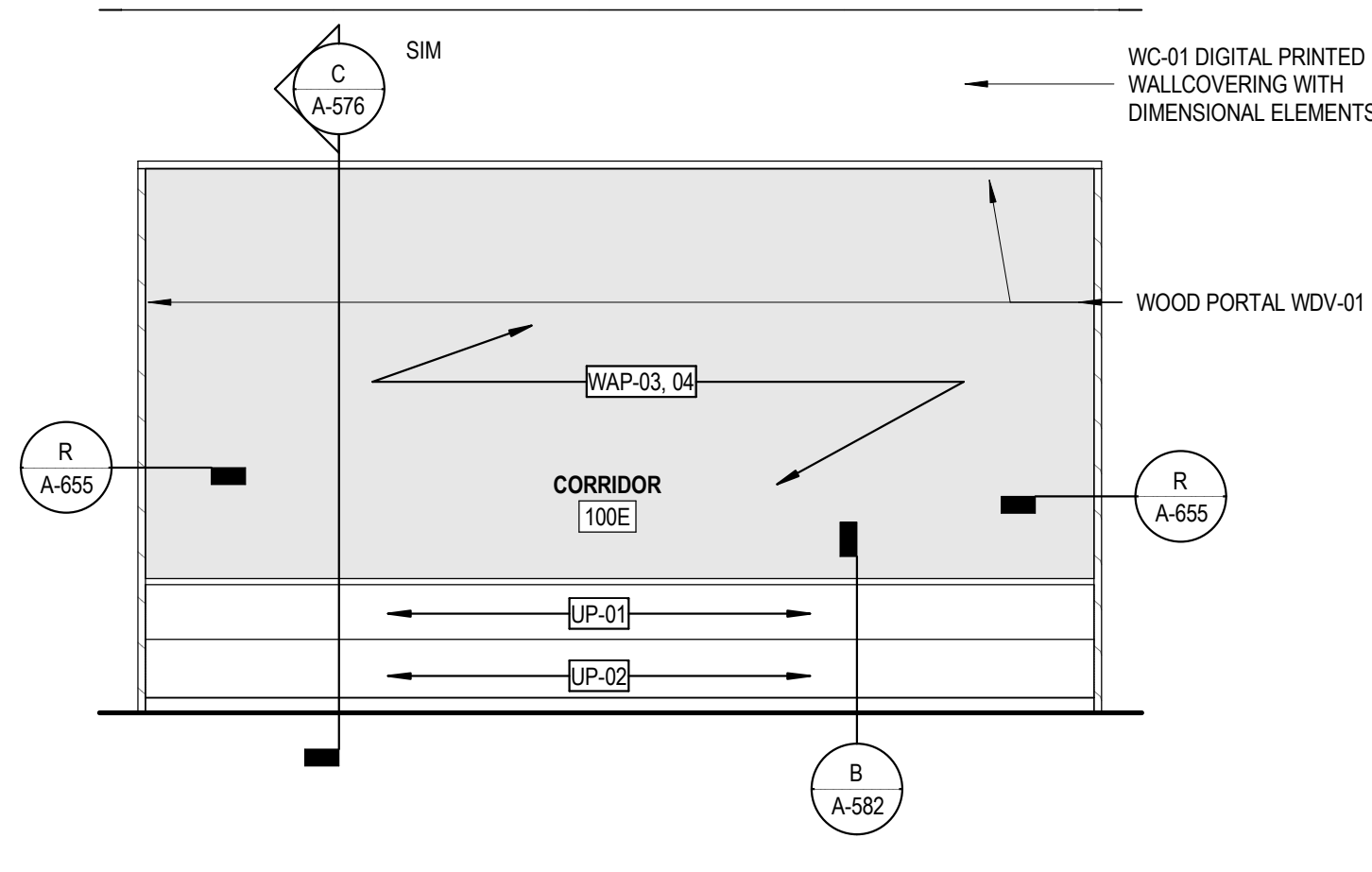
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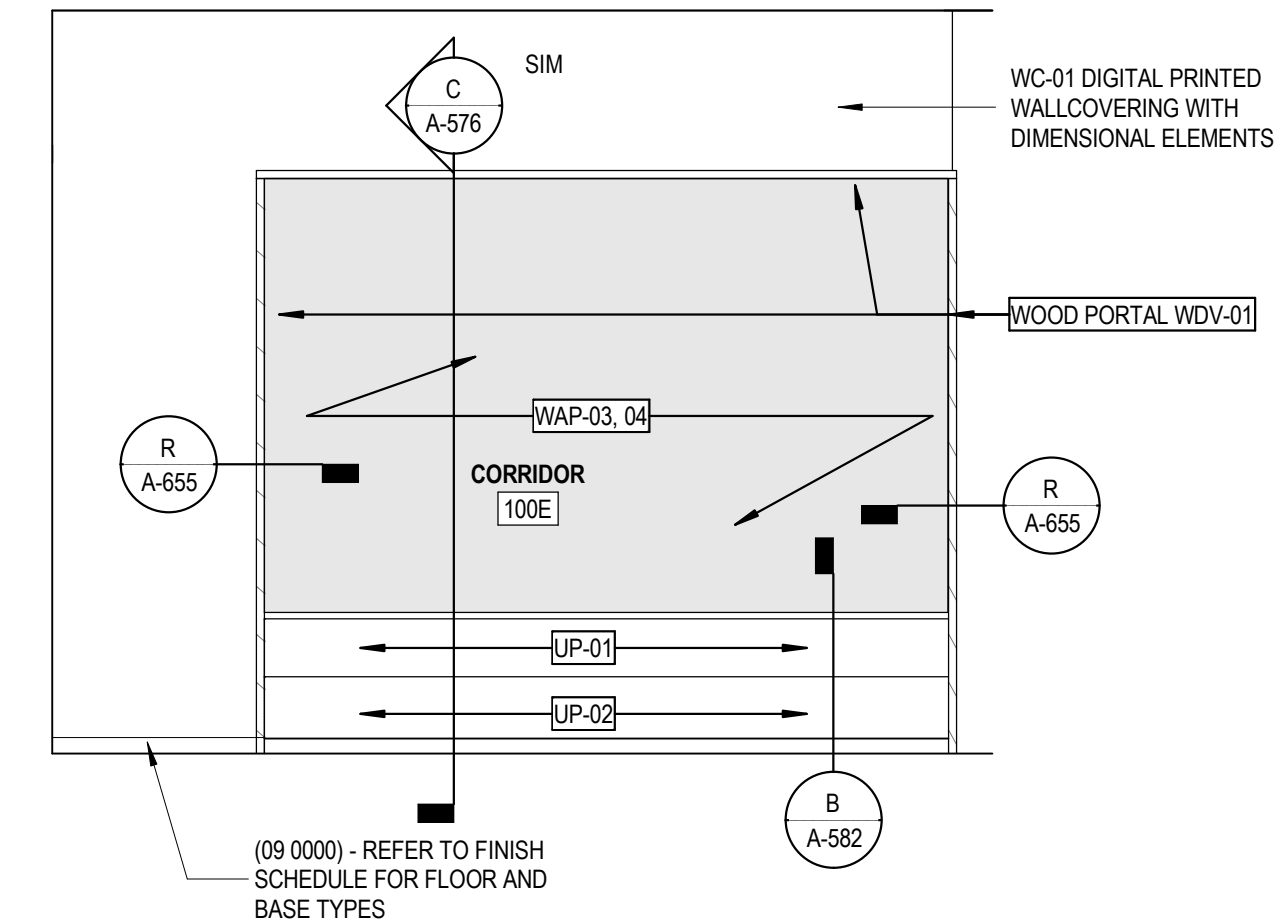
**A FIRST FLOOR 200P CLASSROOM - BOOTH**  
1/4" = 1'-0"



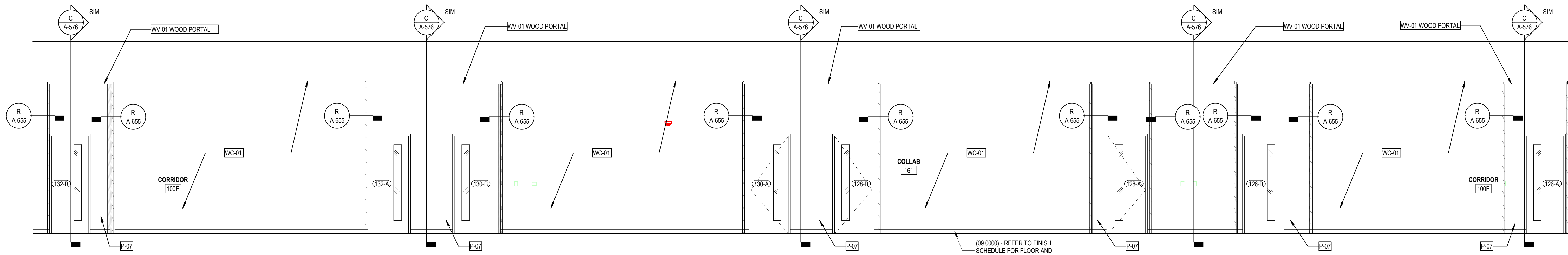
**B FIRST FLOOR 200P CLASSROOM - BOOTH A**  
1/4" = 1'-0"



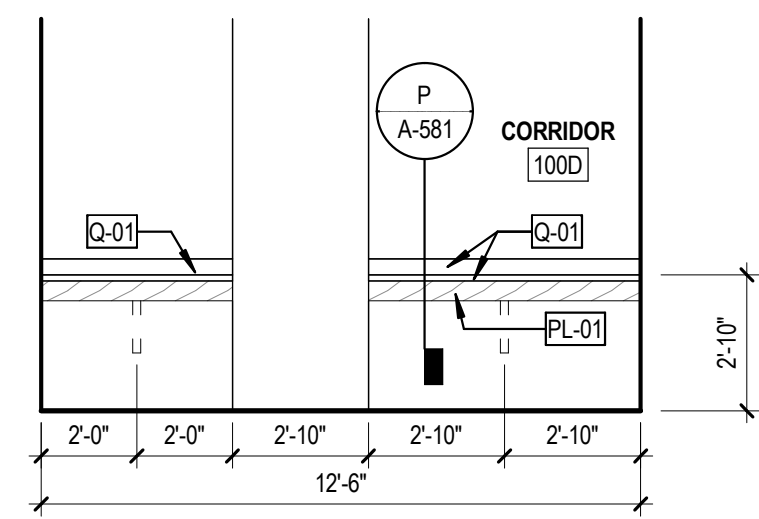
**C FIRST FLOOR COLLAB NICHE A**  
1/4" = 1'-0"



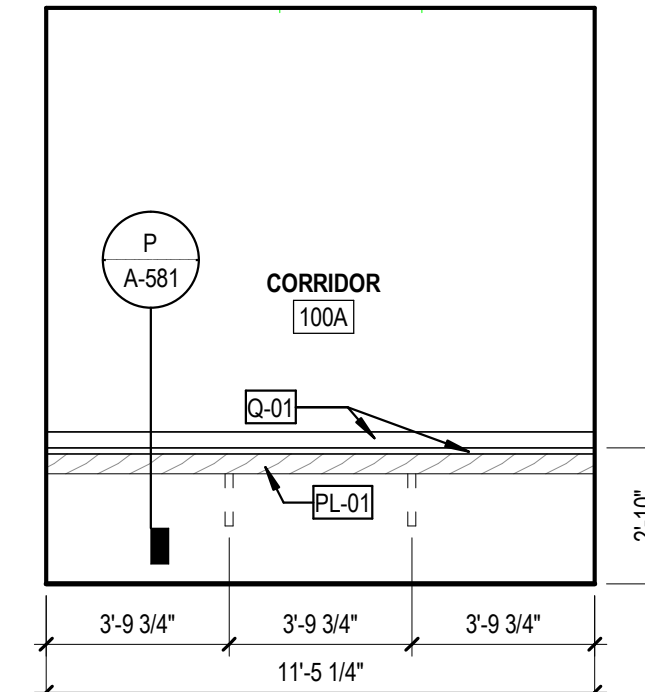
**D FIRST FLOOR COLLAB - BOOTH B**  
1/4" = 1'-0"



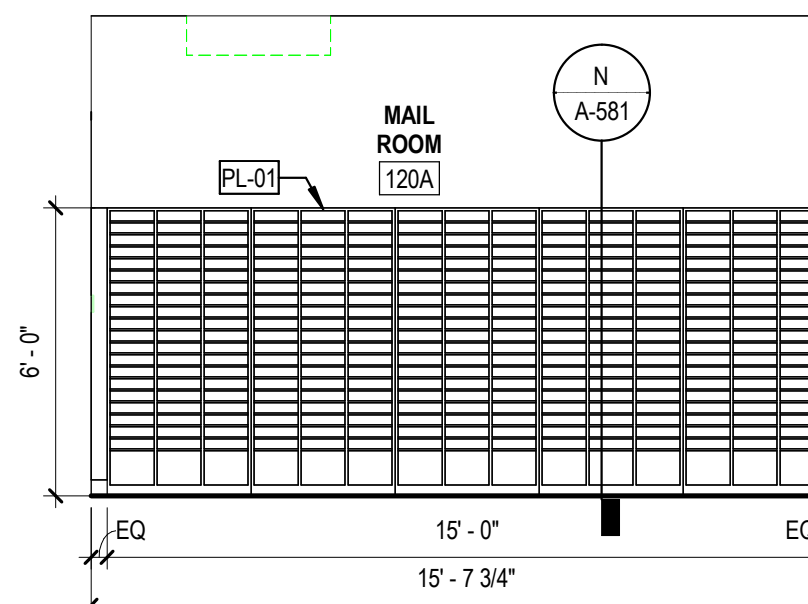
**E FIRST FLOOR 50P CLASSROOM - ENTRY**  
1/4" = 1'-0"



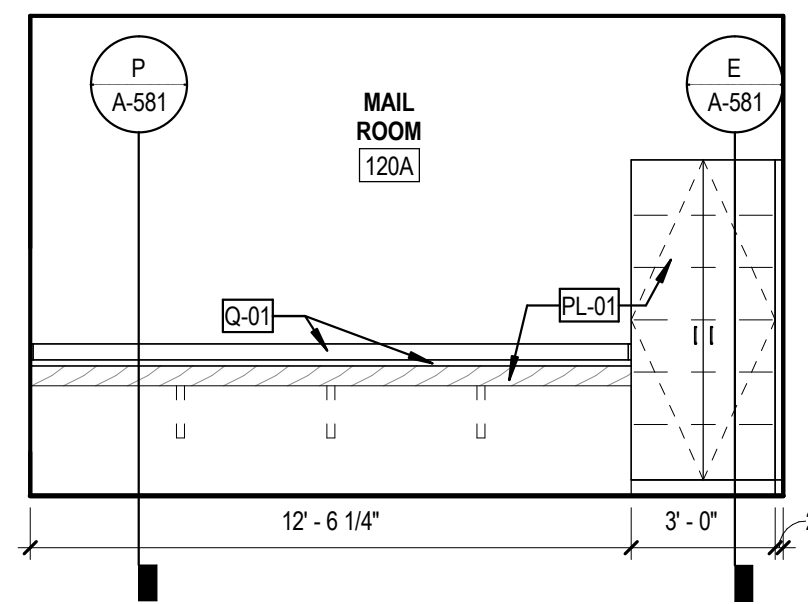
**F FIRST FLOOR 100D CORRIDOR TOUCH-DOWN**  
1/4" = 1'-0"



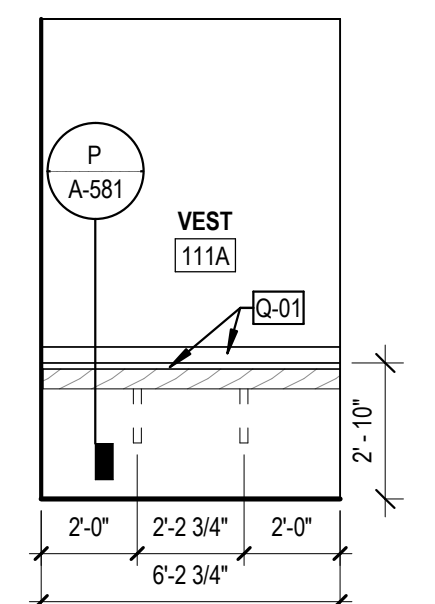
**G FIRST FLOOR 100A CORRIDOR TOUCH-DOWN**  
1/4" = 1'-0"



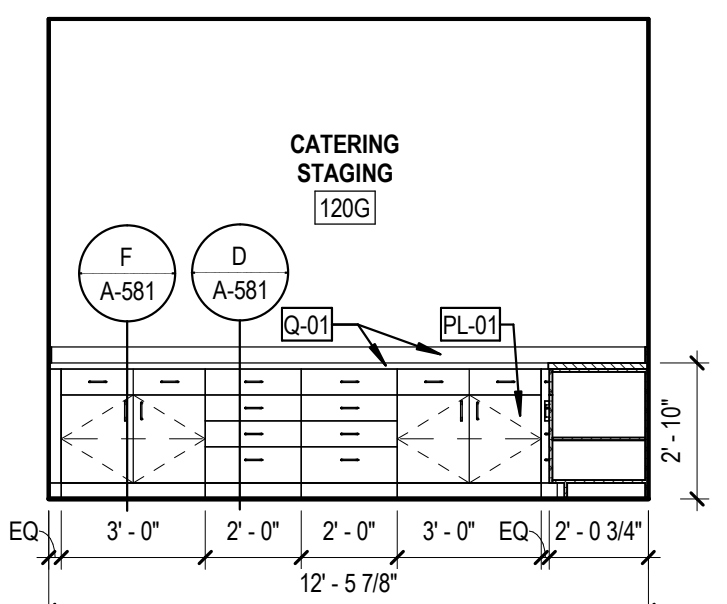
**H FIRST FLOOR 120A MAIL ROOM BOXES**  
1/4" = 1'-0"



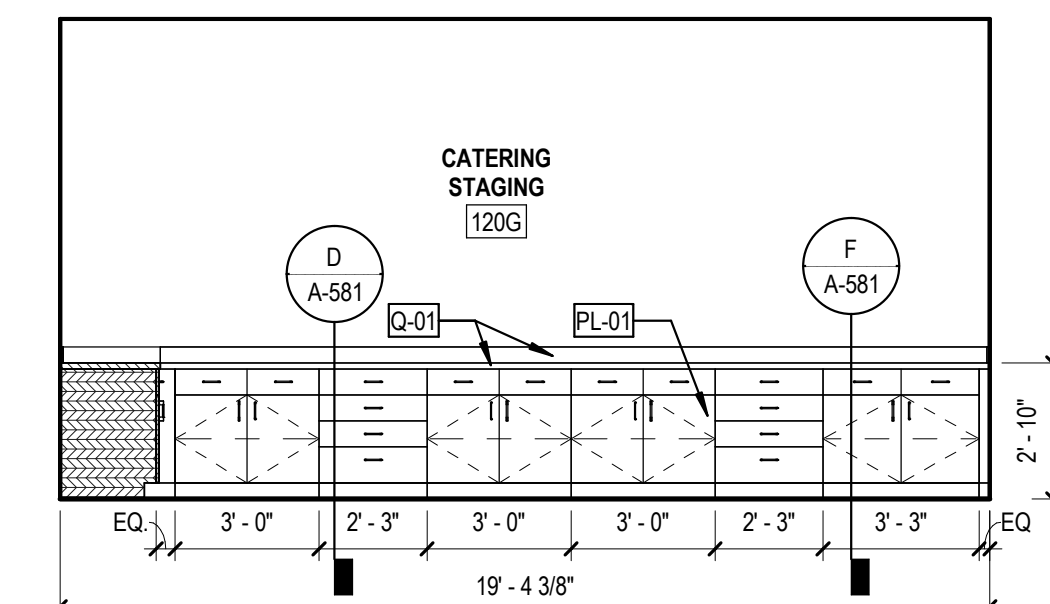
**J FIRST FLOOR 120A MAIL ROOM COUNTERTOP**  
1/4" = 1'-0"



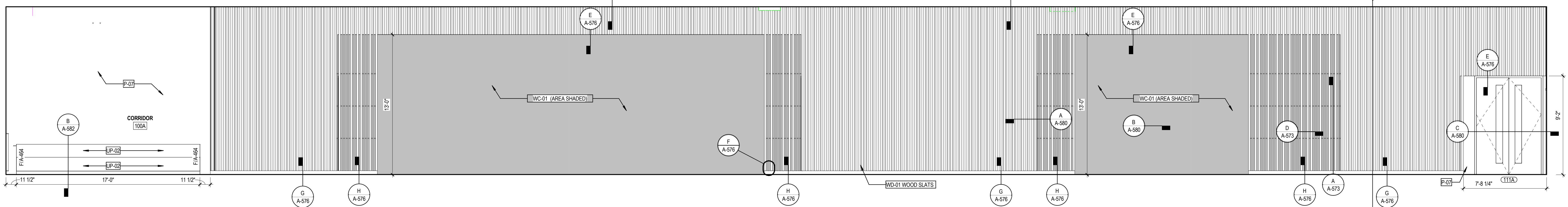
**K FIRST FLOOR 111A VESTIBULE TOUCH-DOWN**  
1/4" = 1'-0"



**L FIRST FLOOR 120G CATERING STAGING**  
1/4" = 1'-0"



**M FIRST FLOOR 120G CATERING STAGING**  
1/4" = 1'-0"



**N FIRST FLOOR 200P CLASSROOM - ENTRY**  
1/4" = 1'-0"

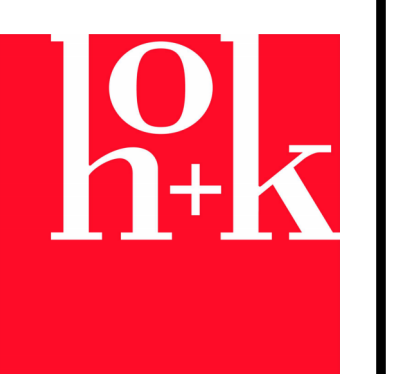
SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100	VISUAL DISPLAY SURFACES		
V01	MARKER BOARD (4 X 8) (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4 X 8) (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4 X 7) (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4 X 7) (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4 X 12) (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4 X 12) (WHITE)	C.F.C.I.	
V07	MARKER BOARD (4 X 7) (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4 X 7) (WHITE)	C.F.C.I.	
V09	MARKER BOARD (4 X 5) (WHITE)	C.F.C.I.	
V10	MARKER BOARD (4 X 5) (DARK BLUE)	C.F.C.I.	
V11	MARKER BOARD (10 X 4) (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10 X 4) (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4 X 10) (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4 X 10) (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4 X 5) (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4 X 6) (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4 X 8) (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (4 X 8) (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (2 X 3) (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2 X 3) (WHITE)	C.F.C.I.	VERTICAL
10 2239 - FOLDING PANEL PARTITIONS			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
10 2620 - WALL & DOOR PROTECTION			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	varies
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
10 2800 - TOILET ACCESSORY			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED: 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED: 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.O.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.O.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.O.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
10 4313 - DEBRILLATOR CABINETS			
D1	DEBRILLATOR CABINET	C.F.C.I.	
10 4413 - FIRE EQUIPMENT			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
10 5113 - LOCKERS			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER 3 OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x27"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
11 1319 - LOADING DOCK EQUIPMENT			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
11 5200 - AV EQUIPMENT			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
11 5213 - PROJECTION SCREENS			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
12 2413 - ROLLER WINDOW SHADES			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
APPLIANCES			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
EQUIPMENT			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPIER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



ARCHITECTURAL

PROJECT 202170  
DATE 08.29.24

REVISIONS

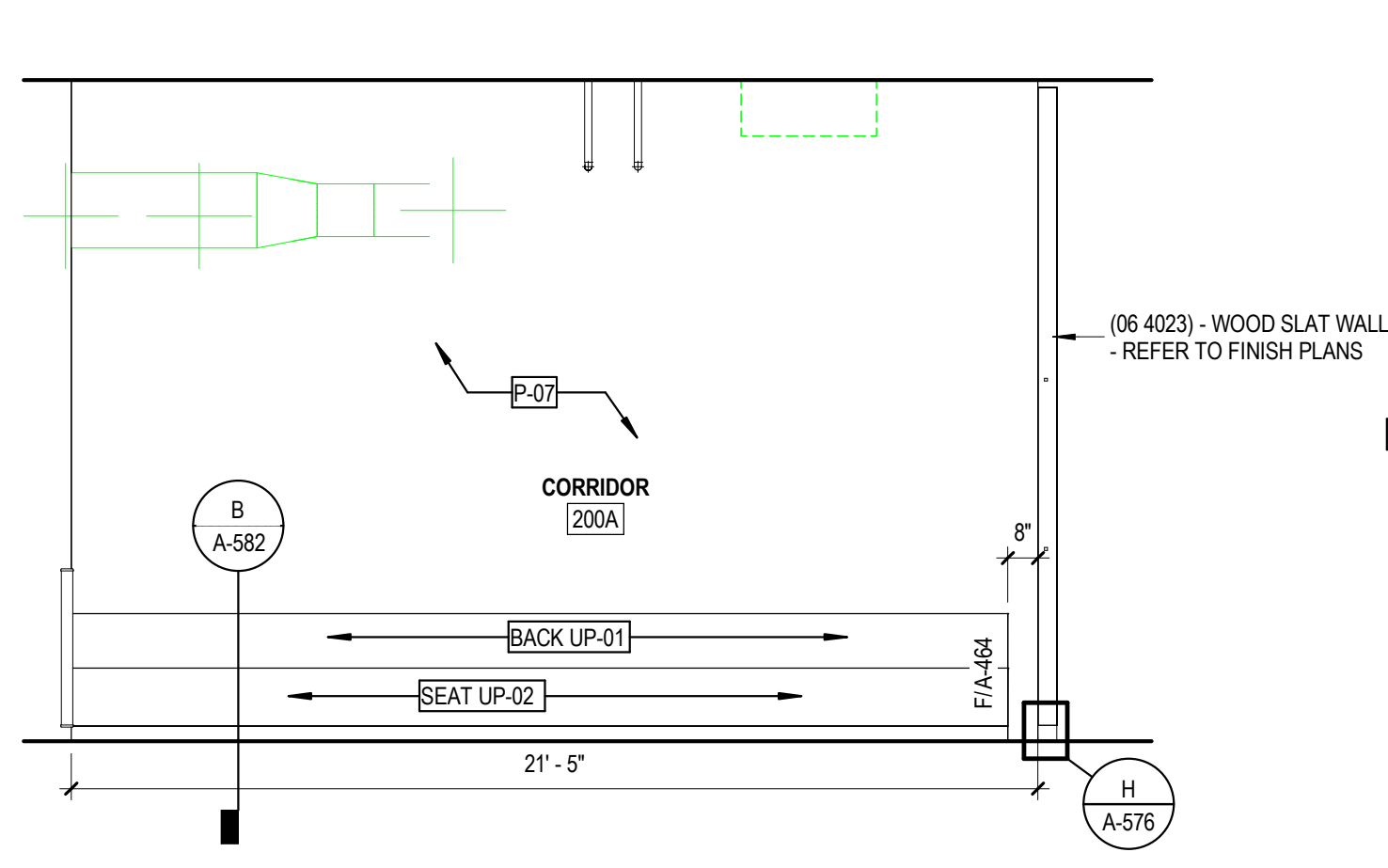
No.	Description	Date

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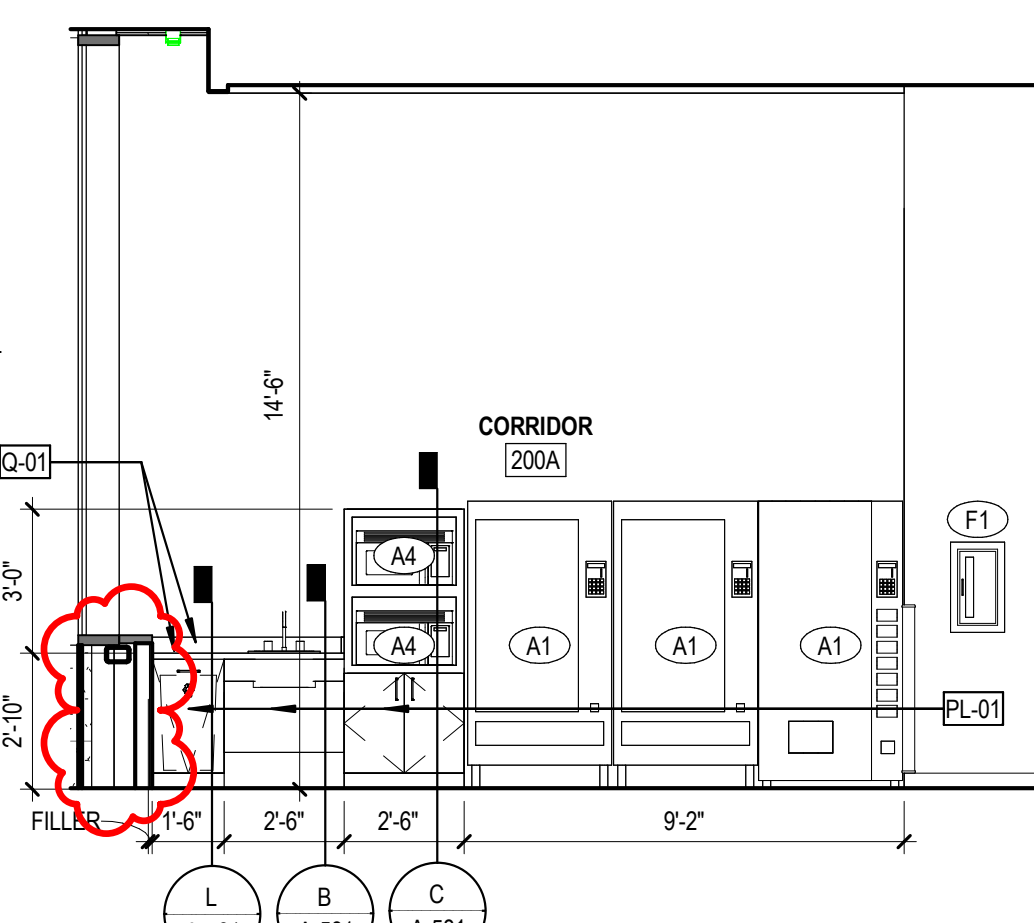
**INTERIOR  
ELEVATIONS -  
FIRST FLOOR**

**A-461**

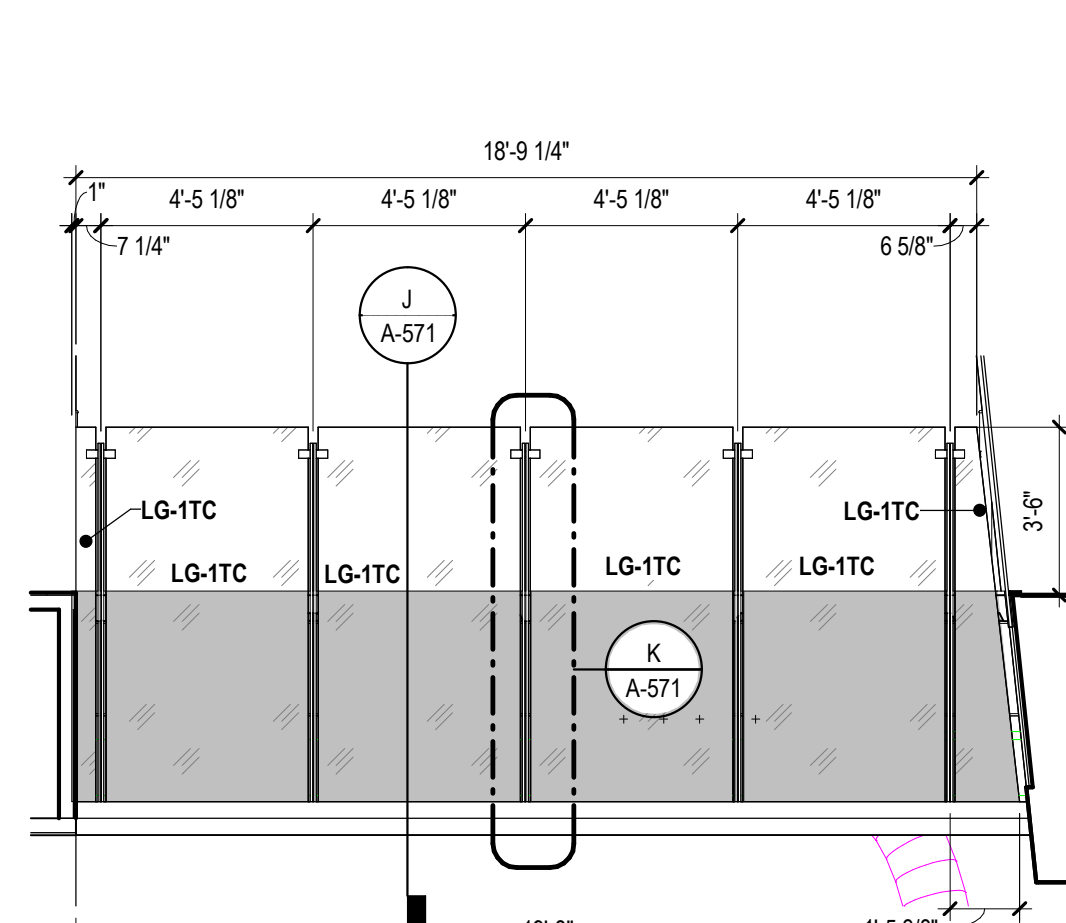
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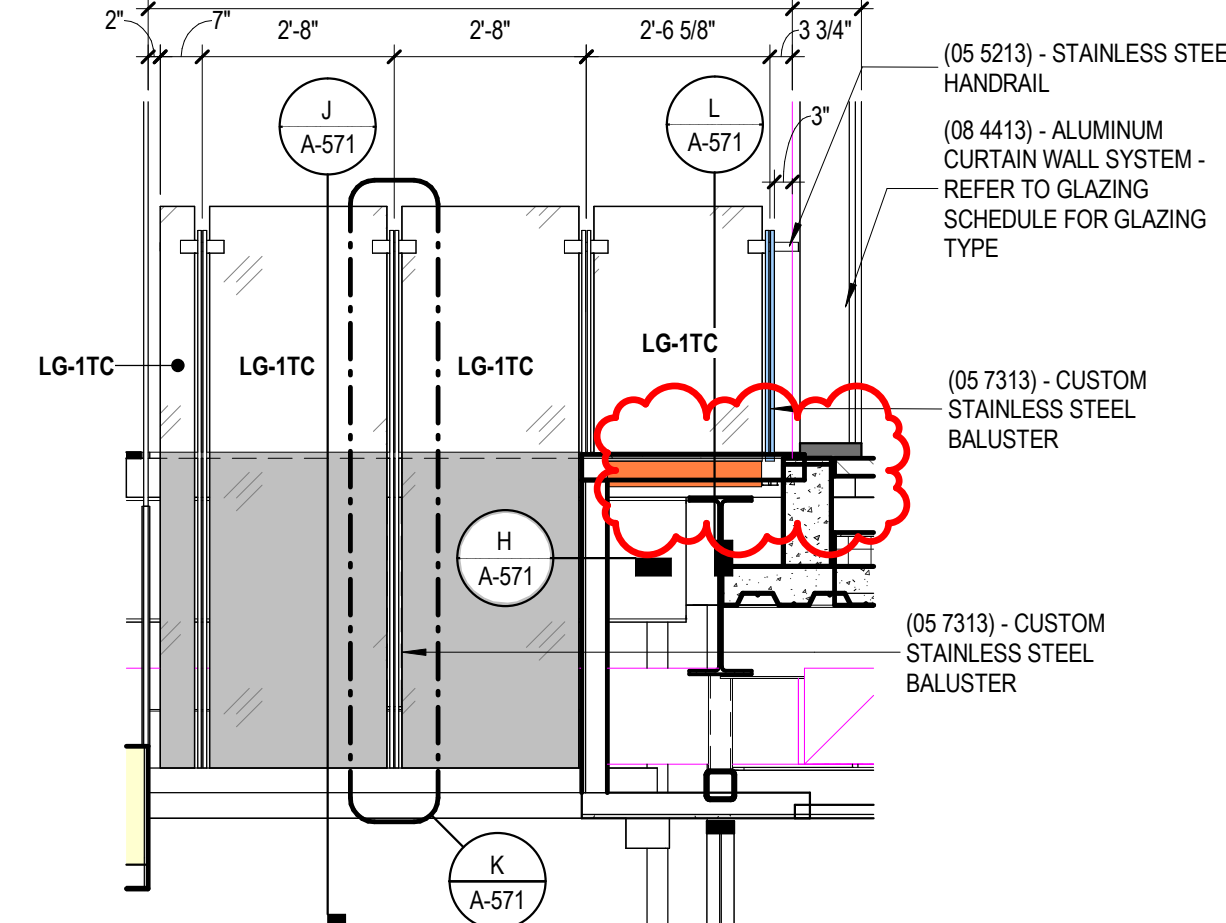
**A SECOND FLOOR CORRIDOR - BOOTH**  
1/4" = 1'-0"



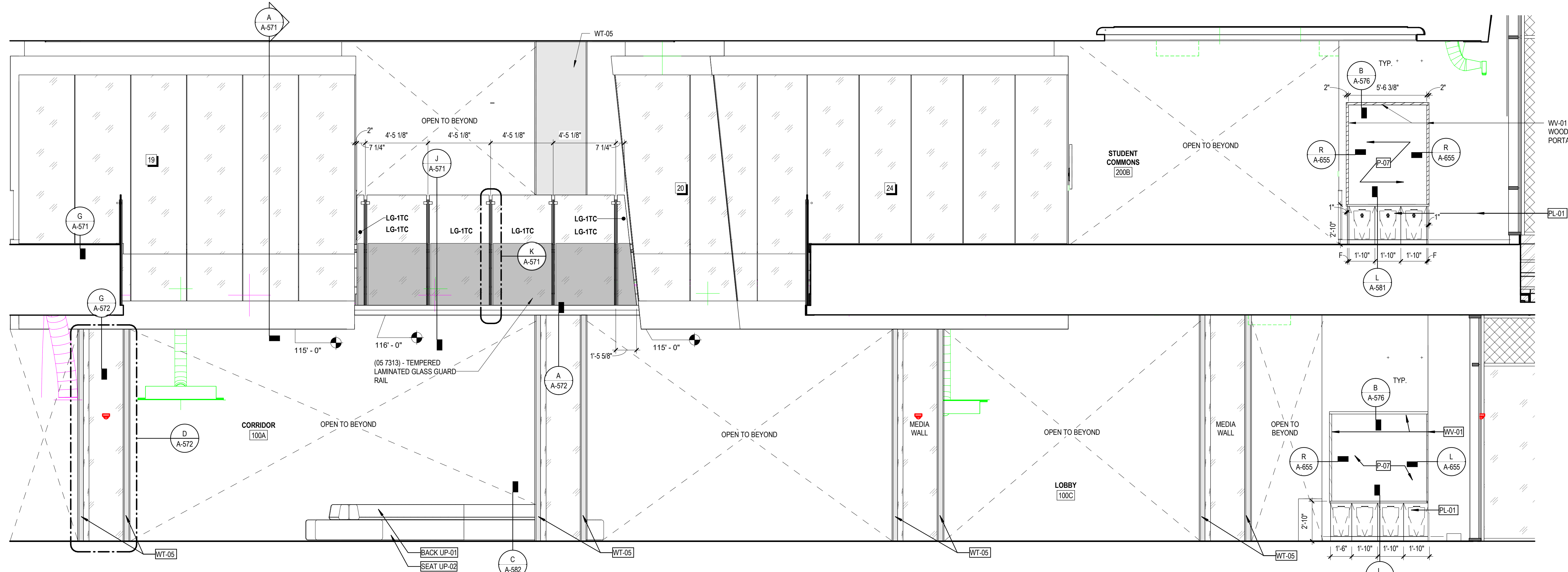
**B SECOND FLOOR VENDING**  
1/4" = 1'-0"



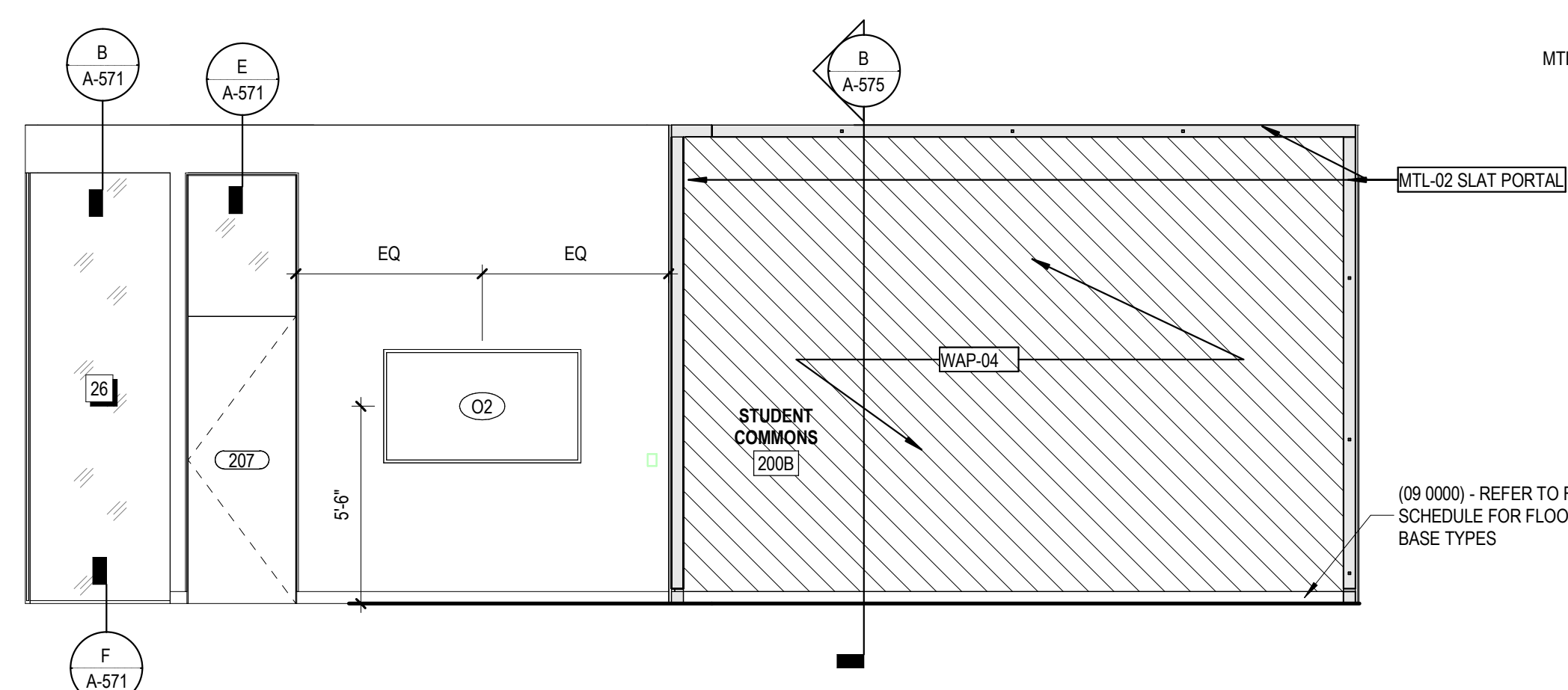
**1 LOBBY GUARD SOUTH**  
1/4" = 1'-0"



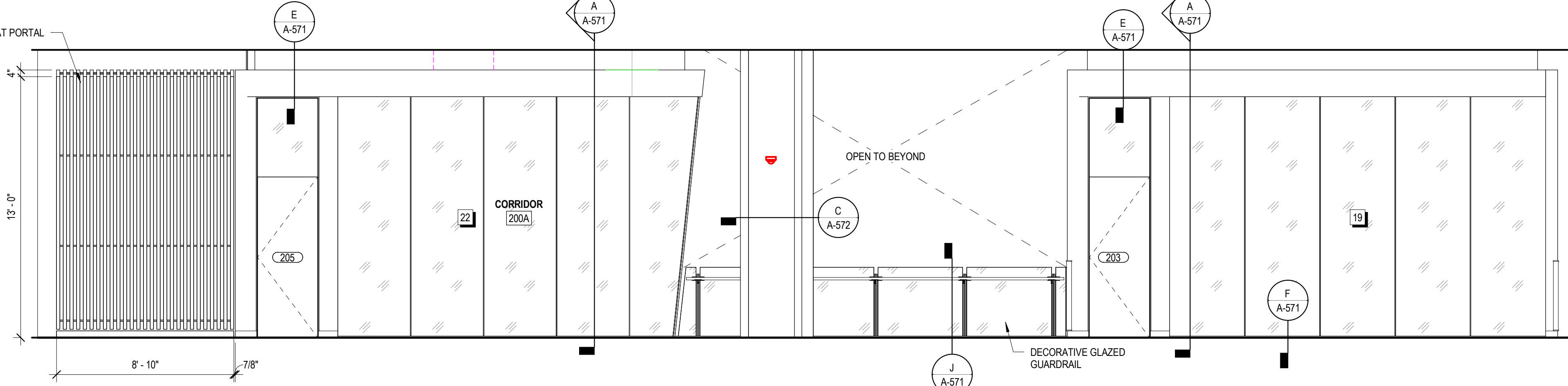
**2 LOBBY GUARD NORTH**  
3/8" = 1'-0"



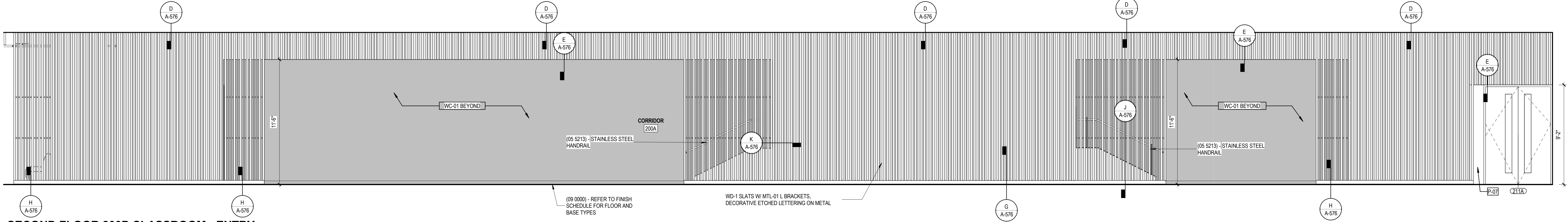
**C FIRST/SECOND FLOOR ATRIUM - WEST ELEVATION**  
1/4" = 1'-0"



**D SECOND FLOOR SEMINAR ROOMS - SOUTH ELEVATION**  
1/4" = 1'-0"



**E SECOND FLOOR SEMINAR ROOMS - EAST ELEVATION**  
1/4" = 1'-0"



**F SECOND FLOOR 200P CLASSROOM - ENTRY**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100	- VISUAL DISPLAY SURFACES		
V01	MARKER BOARD (4' X 5') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 5') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V08	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V09	MARKER BOARD (10' X 4') (WHITE)	C.F.C.I.	VERTICAL
V10	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V11	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V12	MARKER BOARD (4' X 10') (DARK BLUE)	C.F.C.I.	
V13	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 9') (WHITE)	C.F.C.I.	
V18	MARKER BOARD (4' X 9') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (8' X 4') (WHITE)	C.F.C.I.	VERTICAL
V20	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (DARK BLUE)	C.F.C.I.	VERTICAL
10 2239	- FOLDING PANEL PARTITIONS		
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
10 2600	- WALL & DOOR PROTECTION		
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	varies
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
10 2800	- TOILET ACCESSORY		
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED: 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED: 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
10 4313	- DEFIBRILLATOR CABINETS		
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
10 4413	- FIRE EQUIPMENT		
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
10 5113	- LOCKERS		
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
11 1319	- LOADING DOCK EQUIPMENT		
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
11 5200	- AV EQUIPMENT		
O2	WALL MOUNTED MONITOR	C.F.C.I.	
11 5213	- PROJECTION SCREENS		
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
12 2413	- ROLLER WINDOW SHADES		
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
APPLIANCES			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
EQUIPMENT			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COOPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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BP-04F

MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



ARCHITECTURAL

PROJECT 202170  
DATE 08.29.24

REVISIONS		
No.	Description	Date
1	UNRESOLVED	Date 1

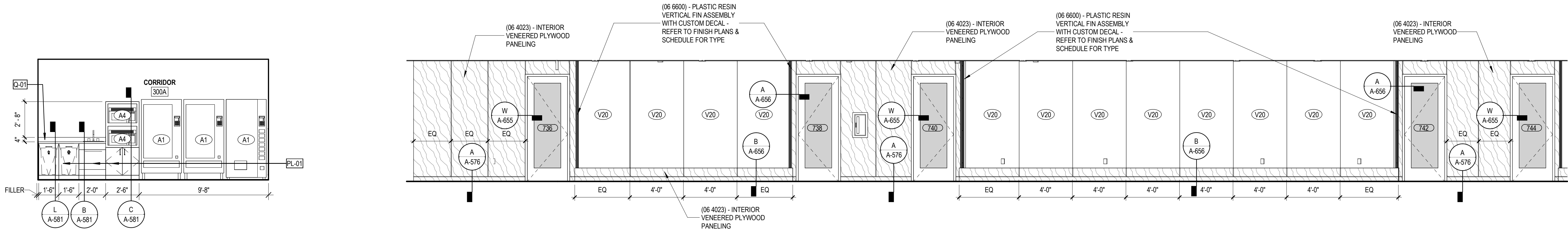
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INTERIOR ELEVATIONS - SECOND FLOOR

A-462

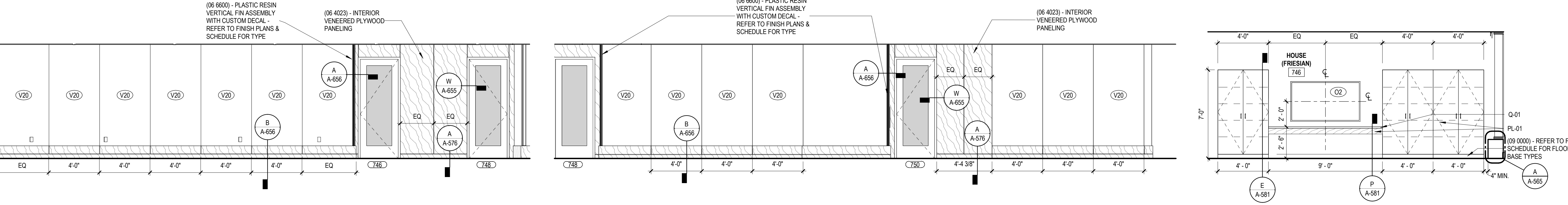
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Autosaved: 08/20/2024 10:05:49 AM - UK Health Education Building 2554-UKHEB\_ARCH1-04



**A** TYPICAL VENDING  
1/4" = 1'-0"

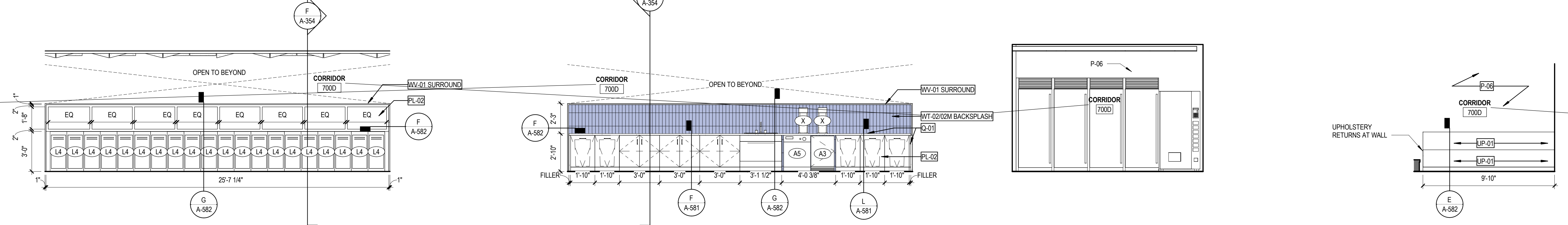
**B** SEVENTH FLOOR - HOUSE ENTRANCE A1  
1/4" = 1'-0"



**C** SEVENTH FLOOR - HOUSE ENTRANCE B1  
1/4" = 1'-0"

**D** SEVENTH FLOOR - HOUSE ENTRANCE C  
1/4" = 1'-0"

**E** SEVENTH FLOOR - TYPICAL HOUSE MEDIA WALL  
1/4" = 1'-0"

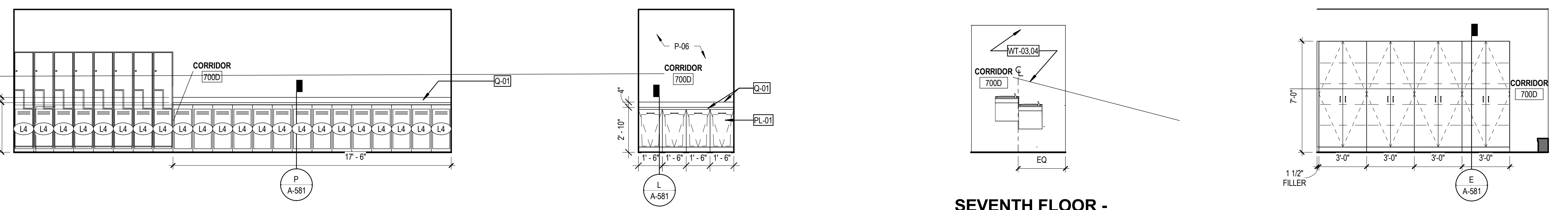


**F** SEVENTH FLOOR - HOUSE LOCKERS  
1/4" = 1'-0"

**G** SEVENTH FLOOR - HOUSE DINING A  
1/4" = 1'-0"

**H** SEVENTH FLOOR - HOUSE DINING B  
1/4" = 1'-0"

**J** SEVENTH FLOOR - DINING C  
1/4" = 1'-0"

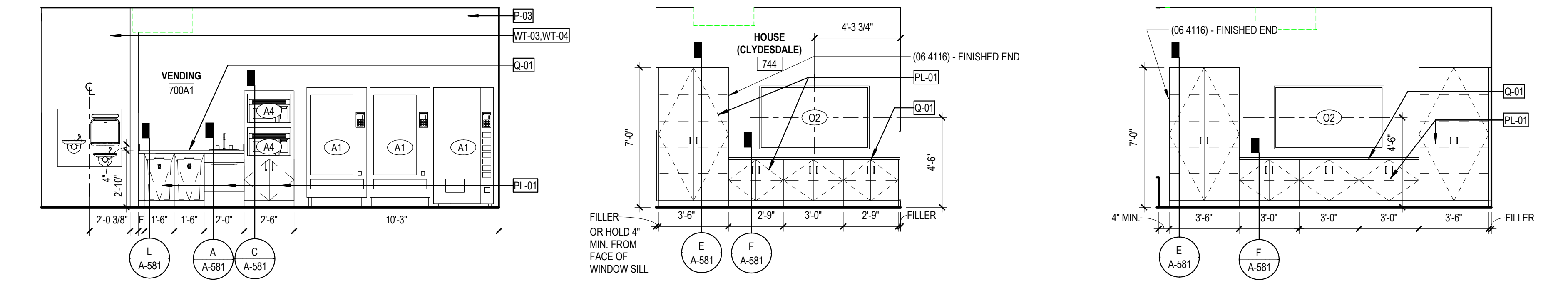


**K** SEVENTH FLOOR - HOUSE LOCKER B  
1/4" = 1'-0"

**L** SEVENTH FLOOR - TRASH  
1/4" = 1'-0"

**M** SEVENTH FLOOR - HOUSE DRINKING FOUNTAIN  
1/4" = 1'-0"

**N** SEVENTH FLOOR - HOUSE STORAGE  
1/4" = 1'-0"



**P** SEVENTH FLOOR - VENDING  
1/4" = 1'-0"

**Q** SEVENTH FLOOR - HOUSE MEDIA WALL  
1/4" = 1'-0"

**R** SEVENTH FLOOR - HOUSE MEDIA WALL  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V05	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V07	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V08	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V09	MARKER BOARD (10' X 4') (WHITE)	C.F.C.I.	VERTICAL
V10	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	
V11	MARKER BOARD (10' X 10') (WHITE)	C.F.C.I.	ANGLE CUT
V12	MARKER BOARD (10' X 10') (DARK BLUE)	C.F.C.I.	
V13	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (8' X 8') (WHITE)	C.F.C.I.	
V18	MARKER BOARD (8' X 8') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
V20	MARKER BOARD (2' X 3') (DARK BLUE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L-SHAPED: 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L-SHAPED: 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION BASE TYPES	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COOPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



ARCHITECTURAL		
PROJECT	202170	
DATE	08.29.24	
REVISIONS		
No.	Description	Date

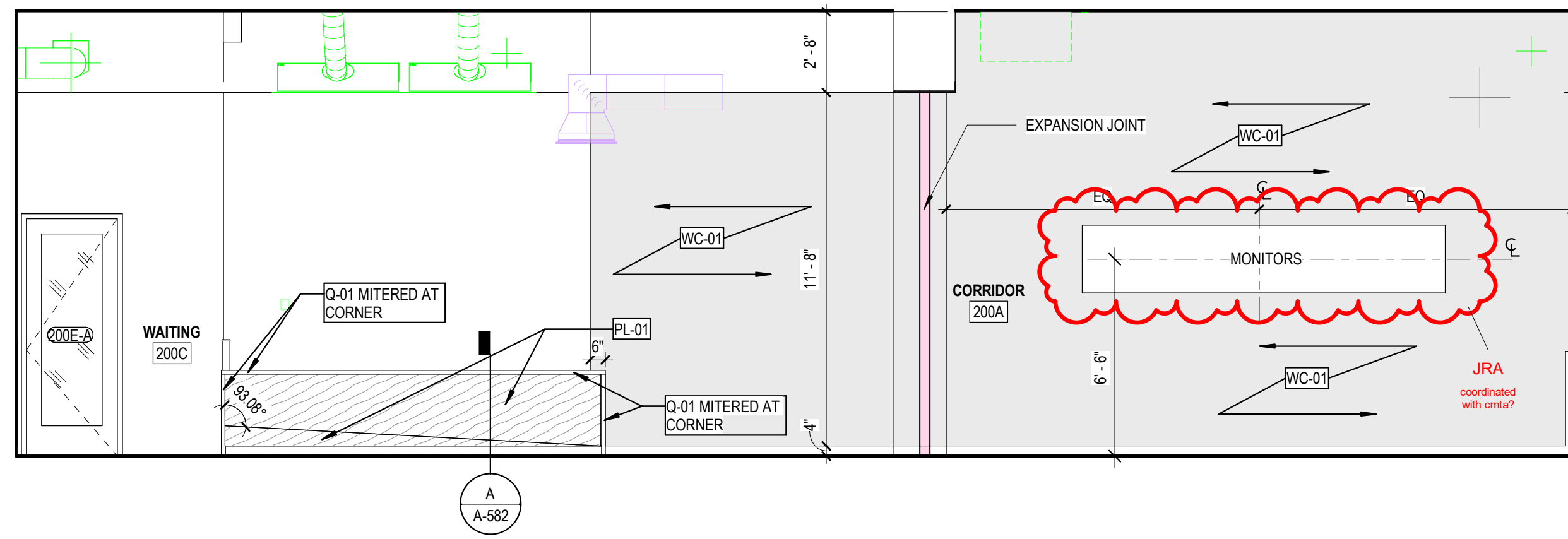
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**INTERIOR ELEVATIONS - UPPER FLOORS**

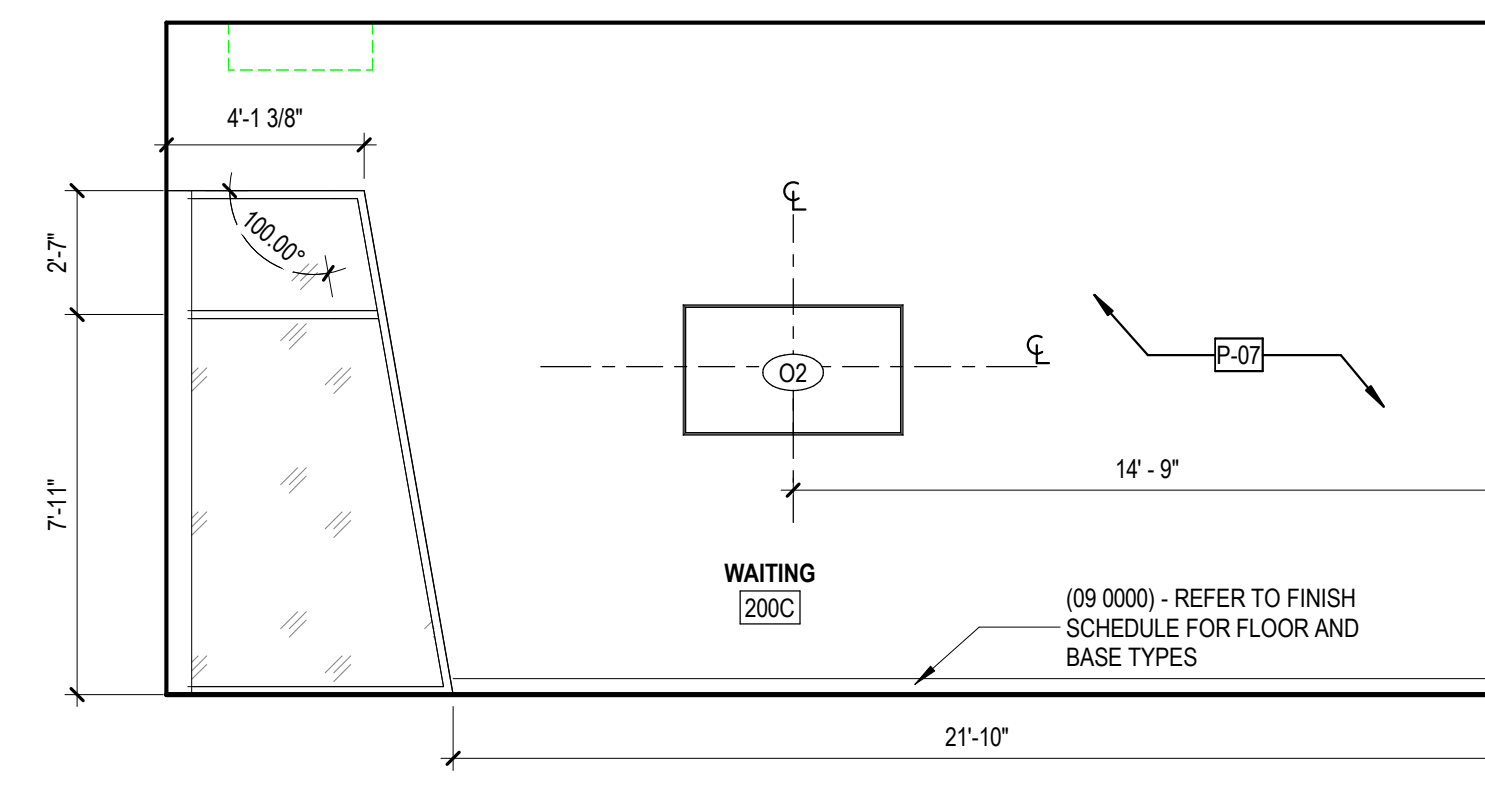
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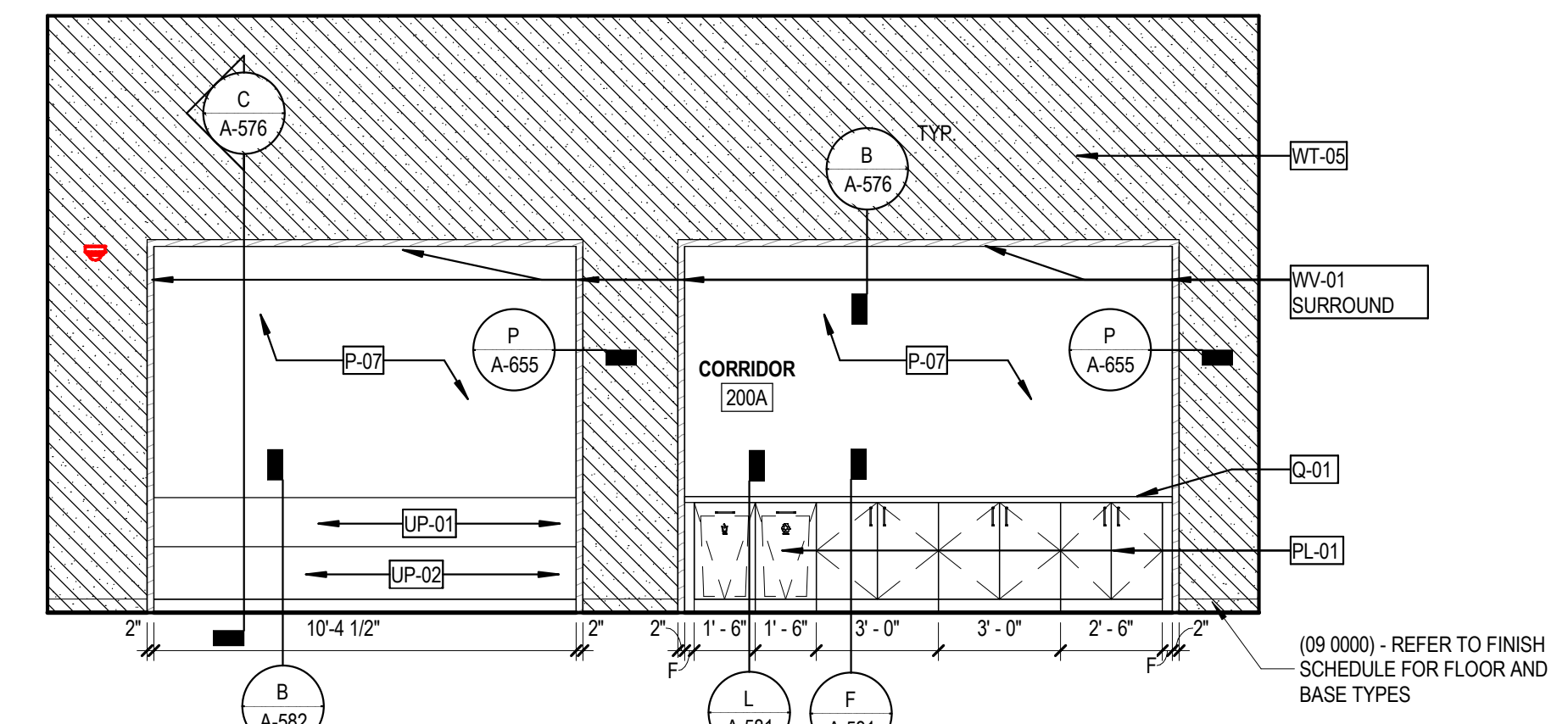
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**A SECOND FLOOR WORKPLACE - RECEPTION**  
1/4" = 1'-0"



**B SECOND FLOOR WORKPLACE - WAITING**  
1/4" = 1'-0"

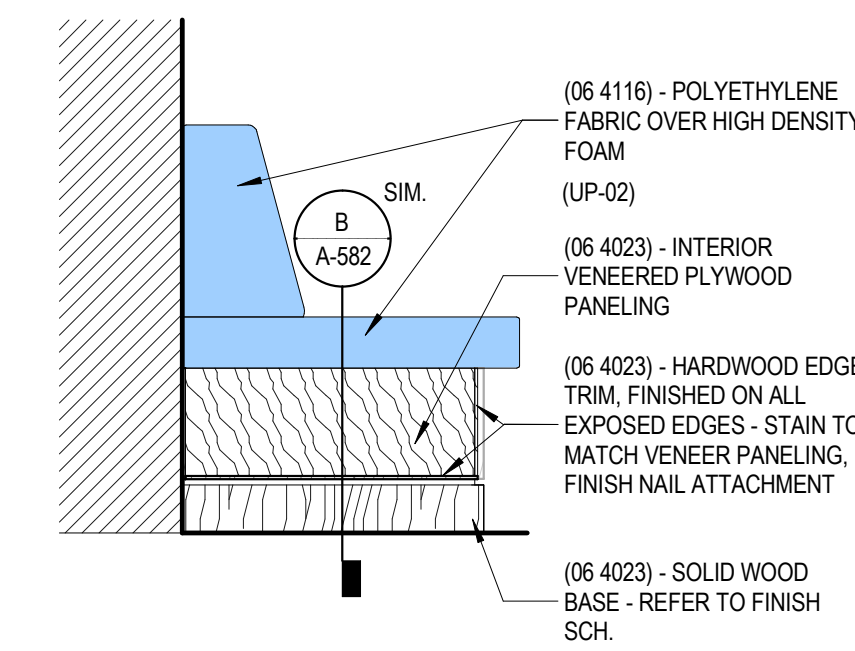


**C SECOND FLOOR BOARD RM - PREFUNCTION**  
1/4" = 1'-0"

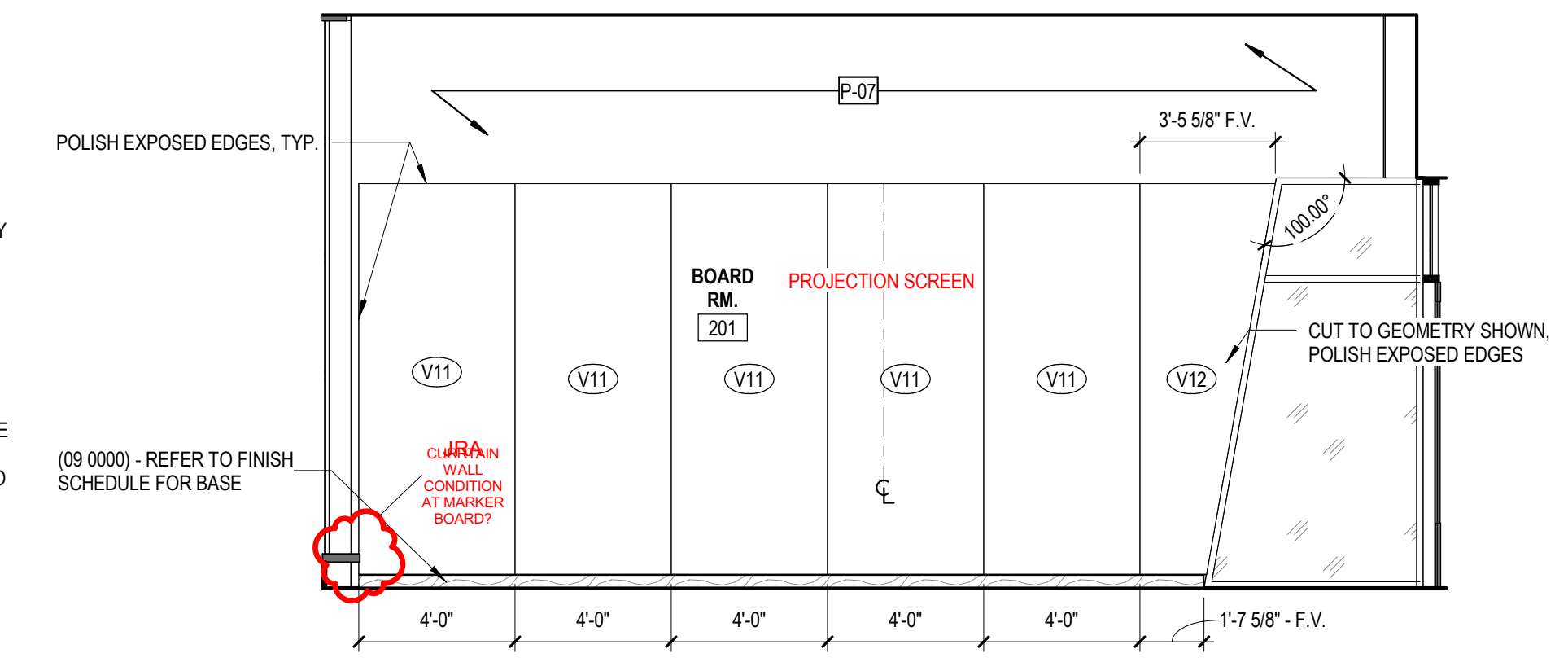


**D SECOND FLOOR BOARD RM - ENTRY**  
1/4" = 1'-0"

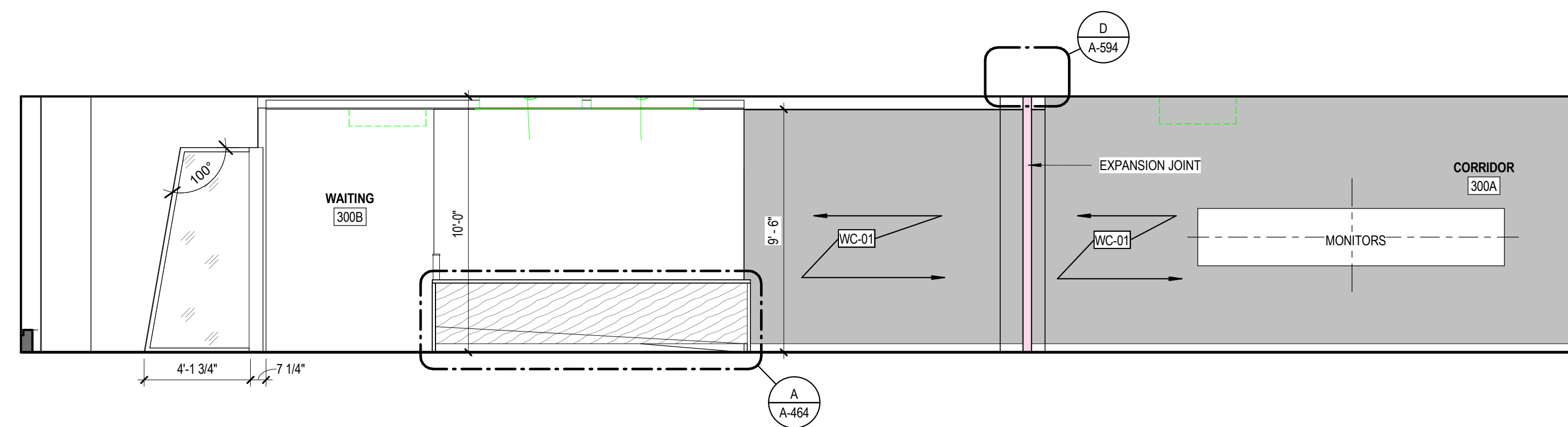
**E SECOND FLOOR BOARD RM - TYPICAL CASEWORK**  
1/4" = 1'-0"



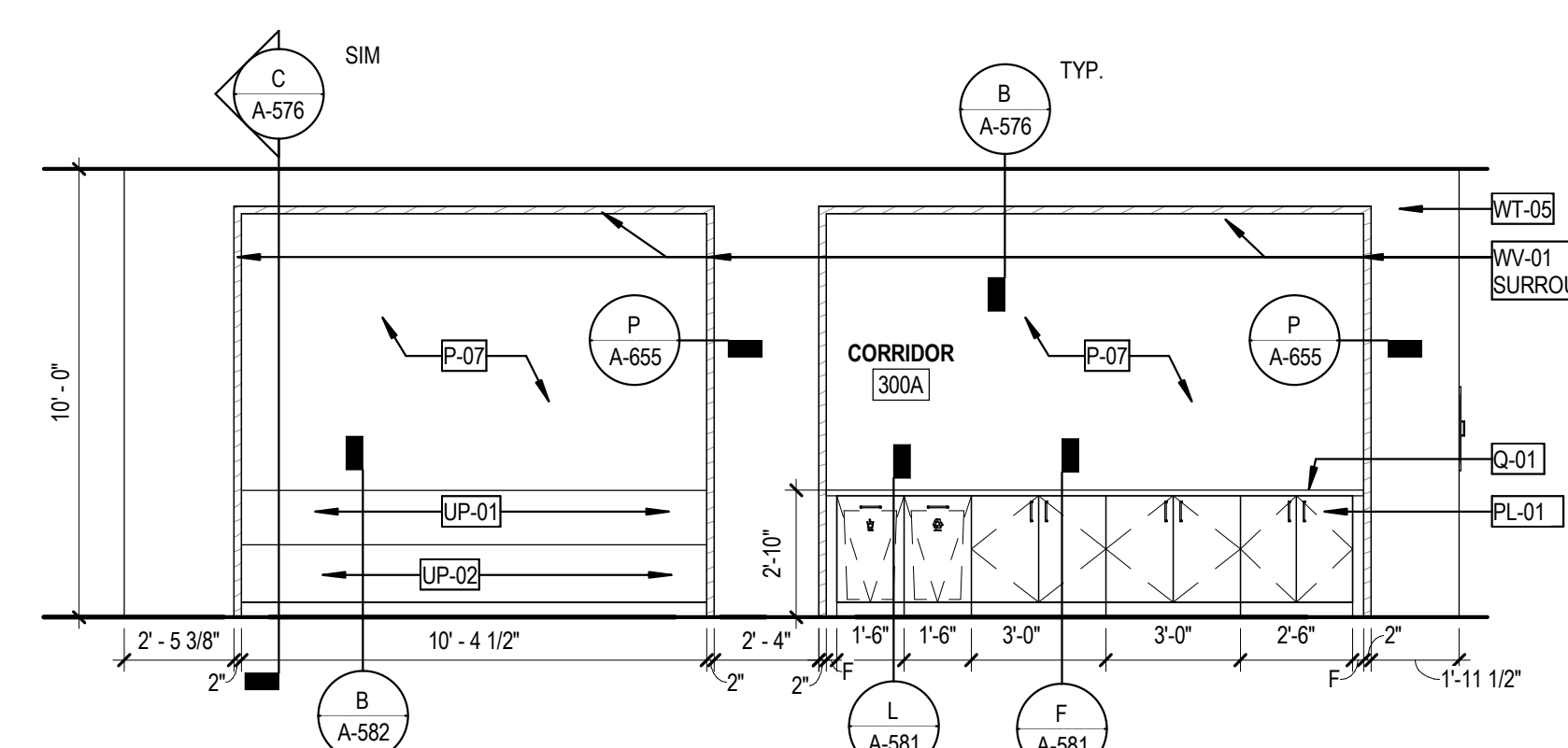
**F BANQUETTE END PANEL ELEVATION**  
3/4" = 1'-0"



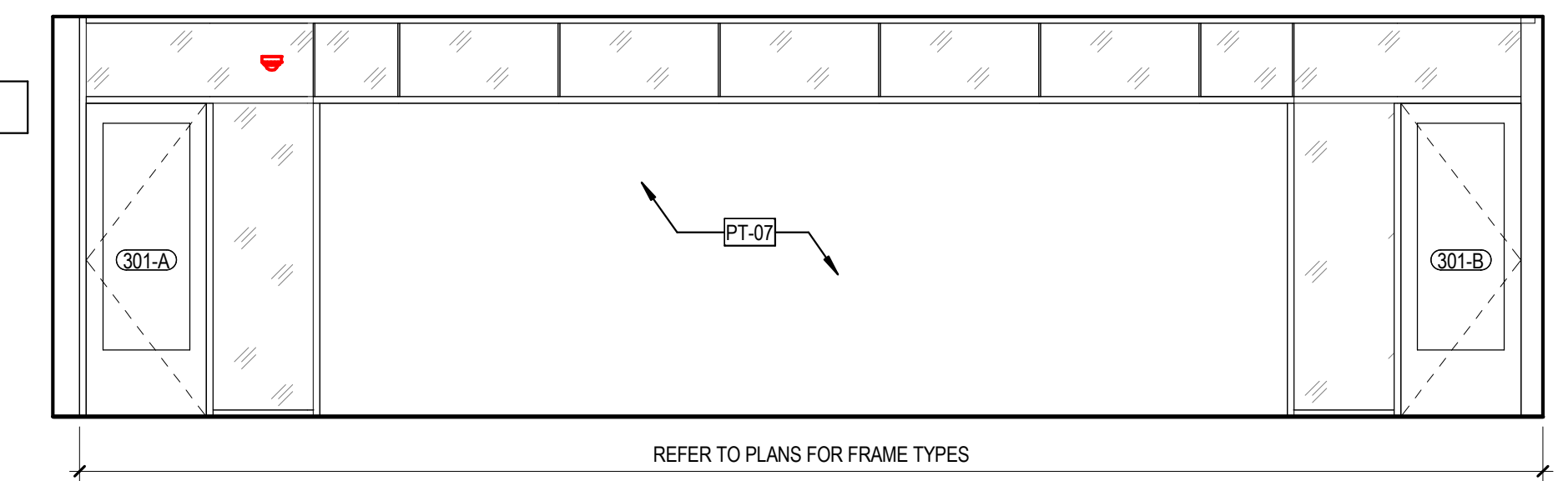
**G SECOND FLOOR BOARD RM - TYPICAL MEDIA WALL**  
1/4" = 1'-0"



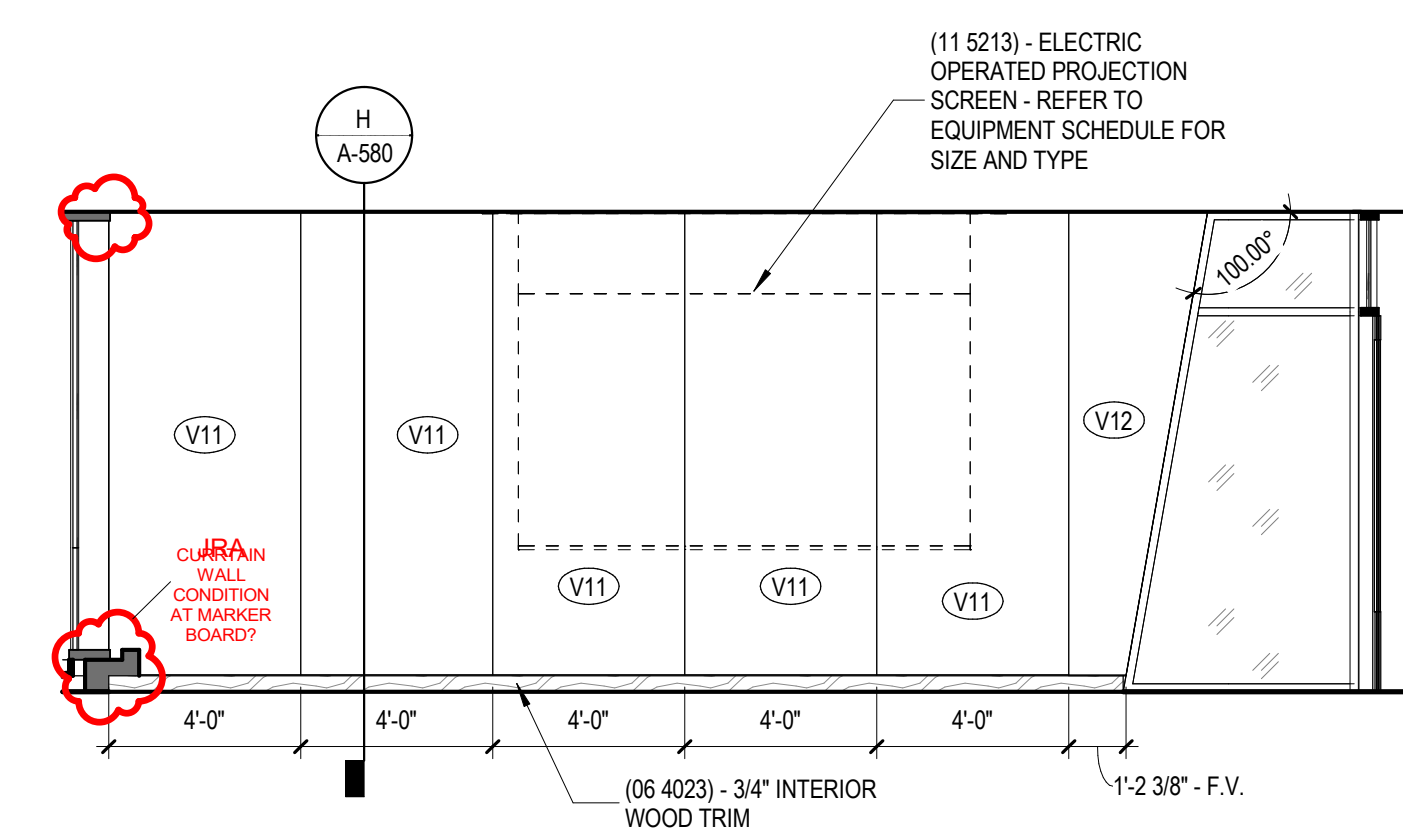
**H THIRD FLOOR WORKPLACE - TYPICAL RECEPTION**  
1/4" = 1'-0"



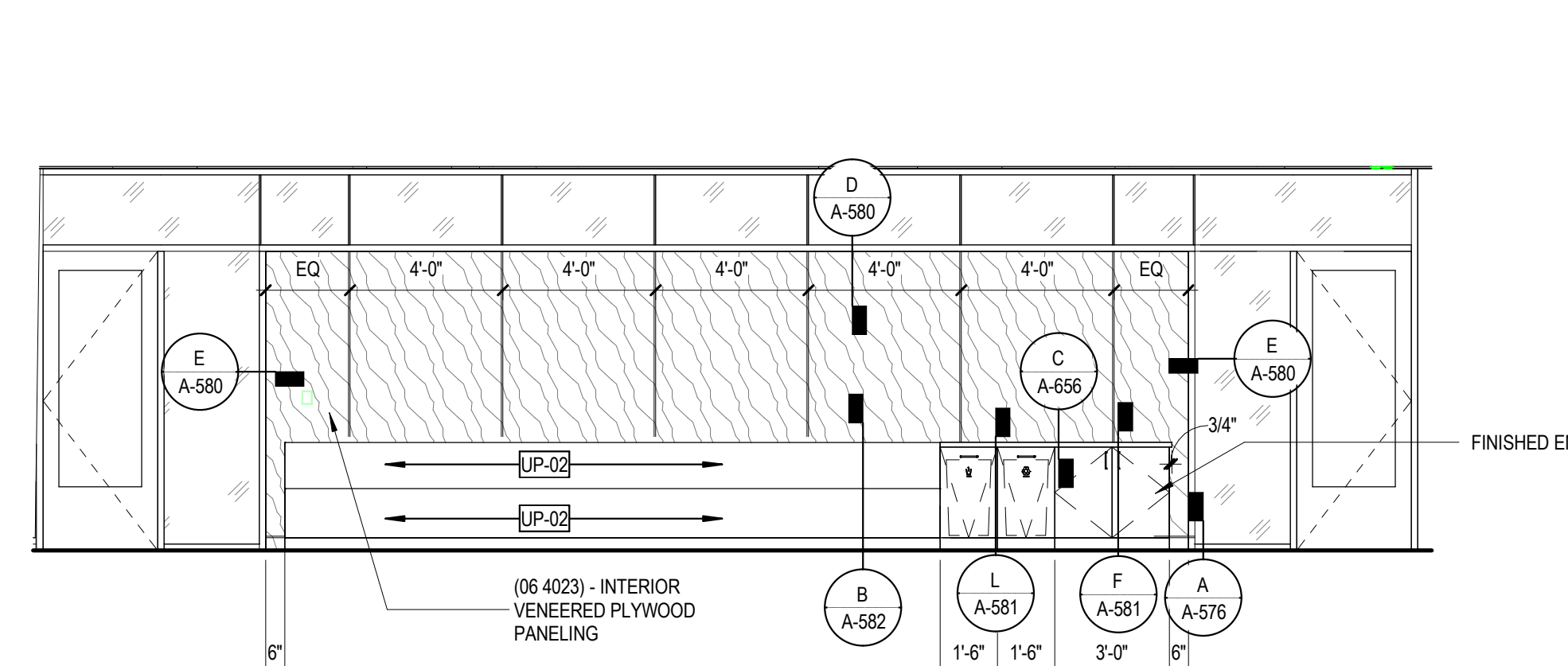
**J THIRD FLOOR BOARD RM - TYPICAL PREFUNCTION**  
1/4" = 1'-0"



**K THIRD FLOOR BOARD RM - TYPICAL ENTRY**  
1/4" = 1'-0"



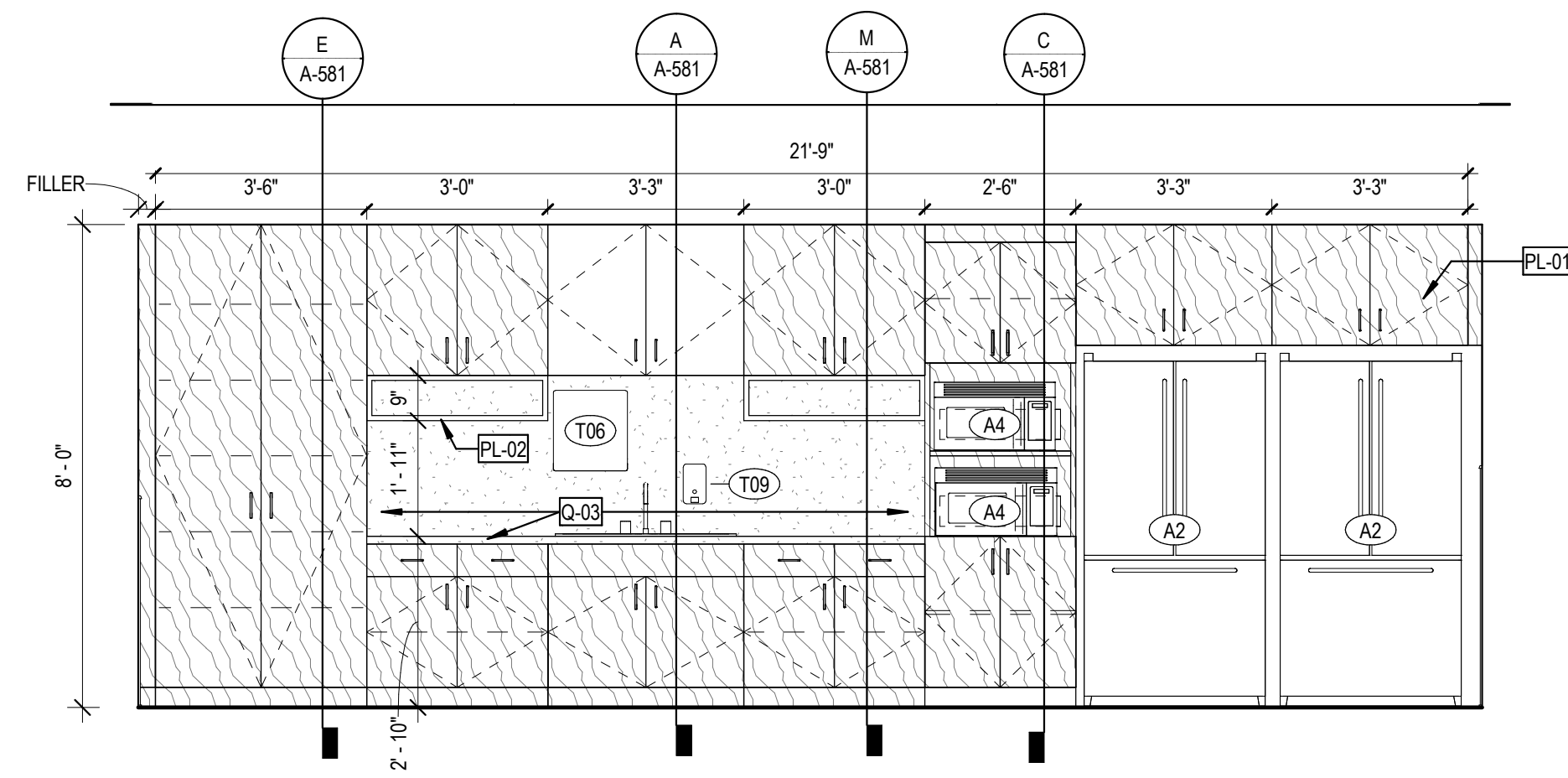
**L TYP. BOARDROOM ELEVATION (FLOORS 3-6)**  
1/4" = 1'-0"



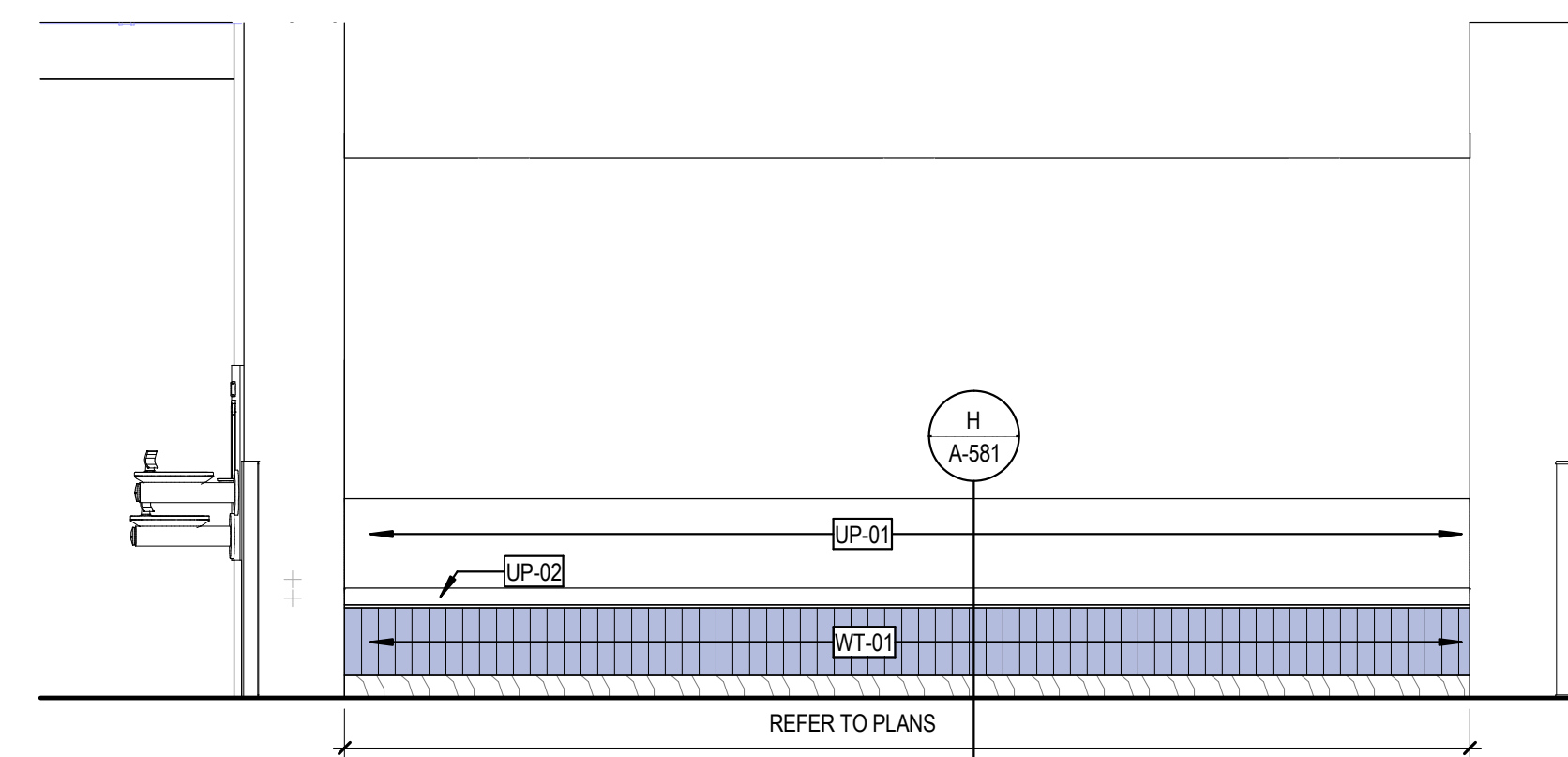
**M TYP. BOARDROOM ELEVATION (FLOORS 3-6)**  
1/4" = 1'-0"

No.	Description	Date
1	UNRESOLVED	Date 1

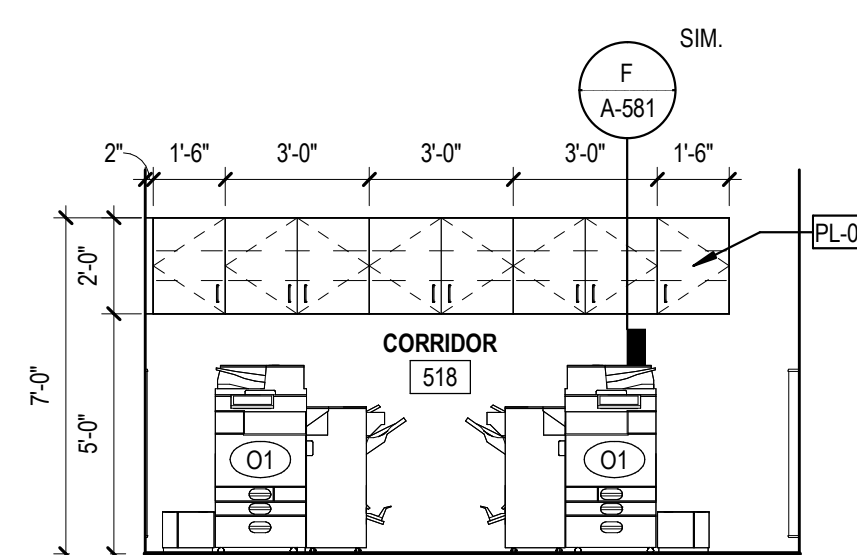
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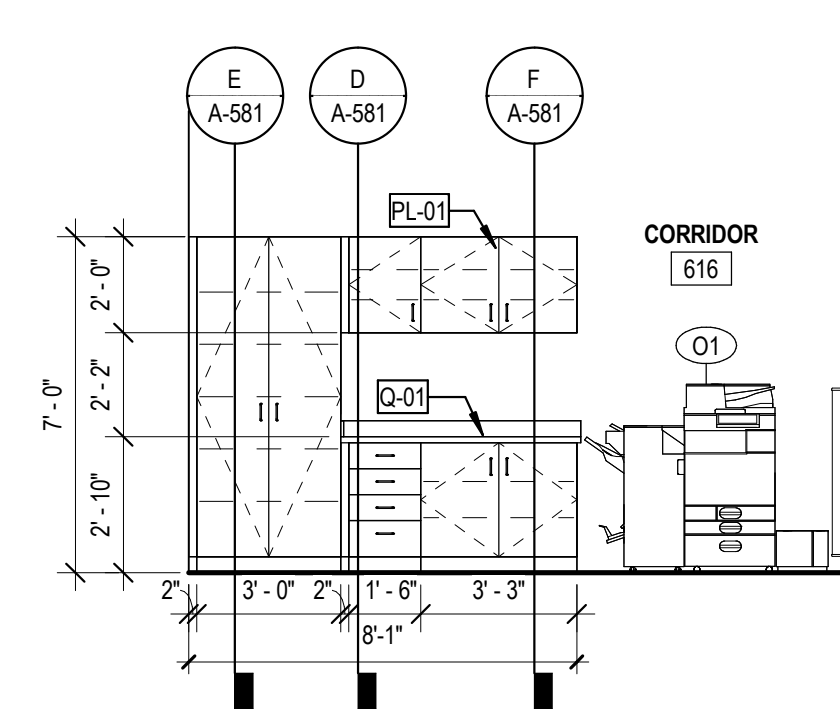
**A** WORKPLACE HUB - CASEWORK ELEVATION A  
3/8" = 1'-0"



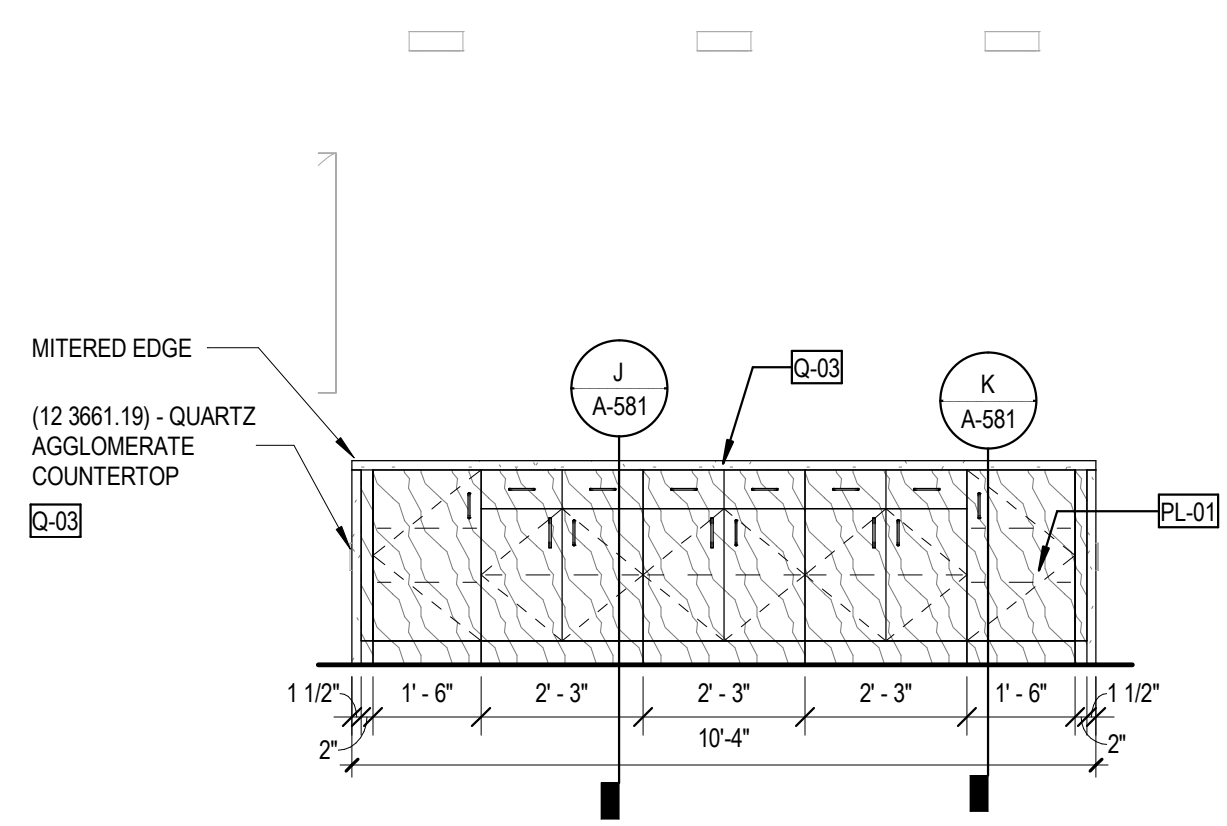
**E** WORKPLACE HUB - CASEWORK ELEVATION D  
3/8" = 1'-0"



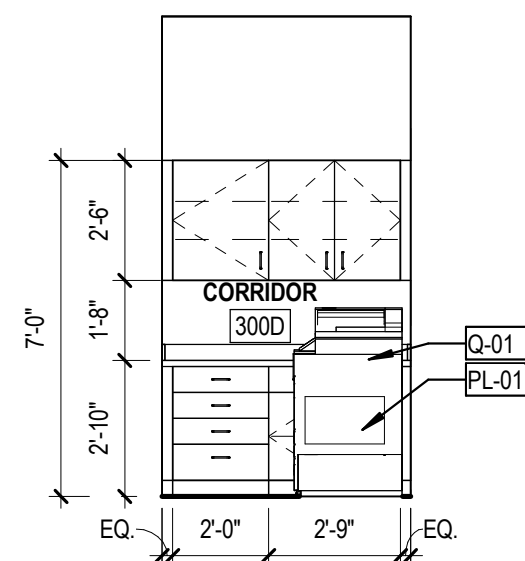
**J** FIFTH FLOOR - COPY  
1/4" = 1'-0"



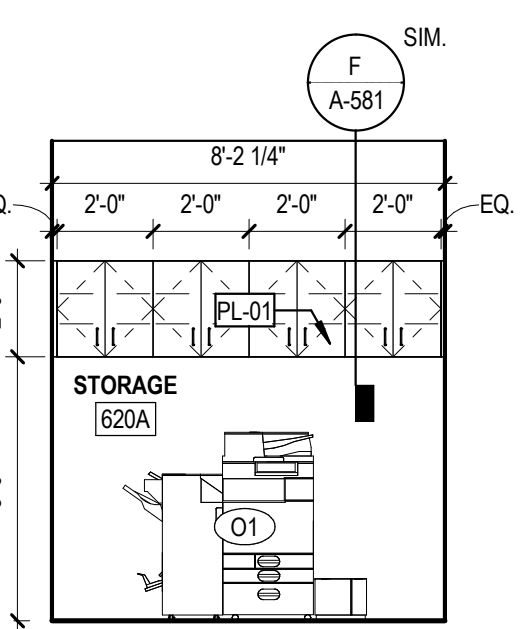
**N** SIXTH FLOOR - OFFICE COPY  
1/4" = 1'-0"



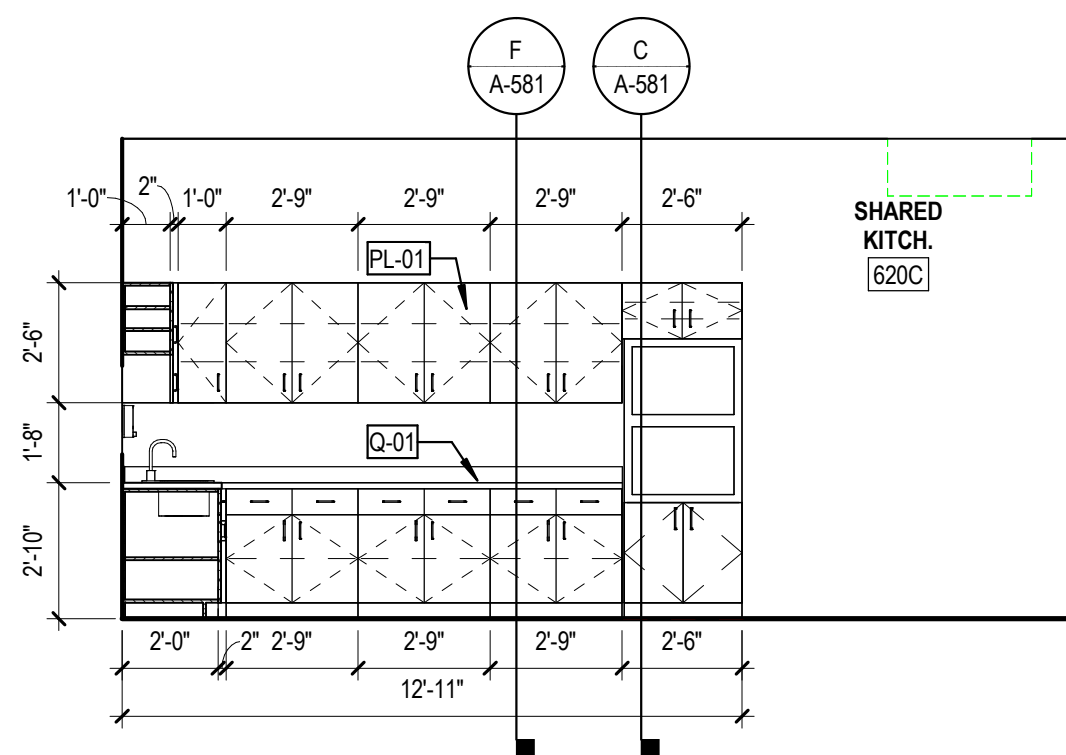
**B** WORKPLACE HUB - CASEWORK ELEVATION B  
3/8" = 1'-0"



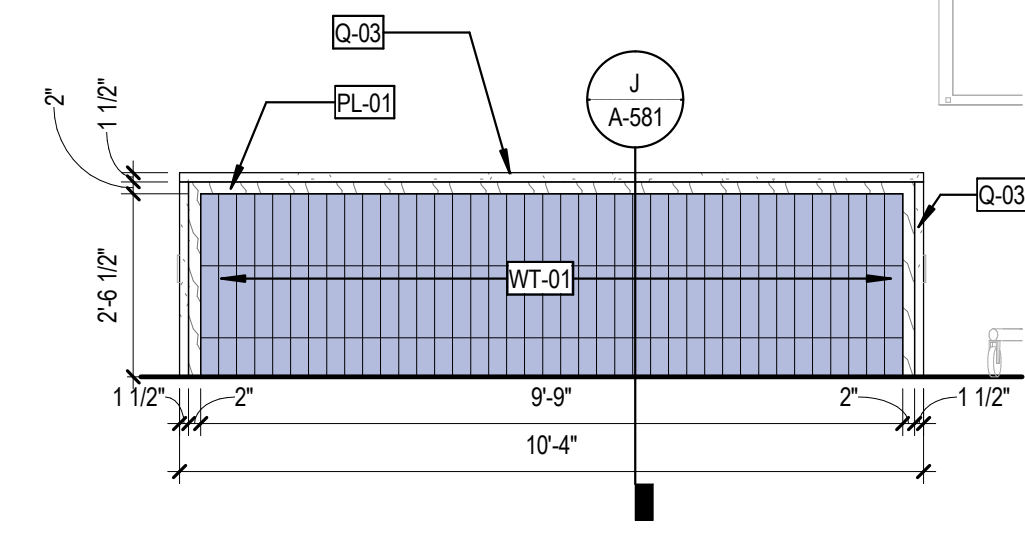
**F** THIRD FLOOR - WORKPLACE  
1/4" = 1'-0"



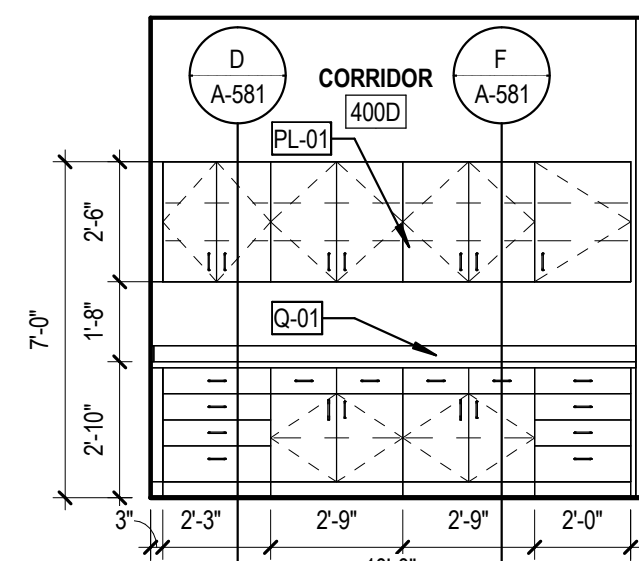
**K** SIXTH FLOOR - STORAGE  
1/4" = 1'-0"



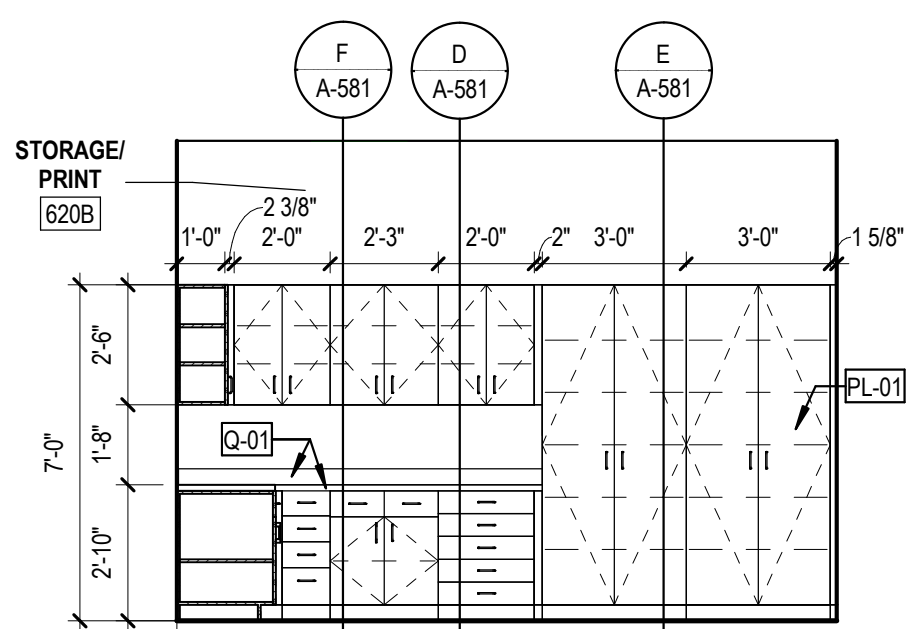
**P** SIXTH FLOOR - SHARED KITCHEN  
1/4" = 1'-0"



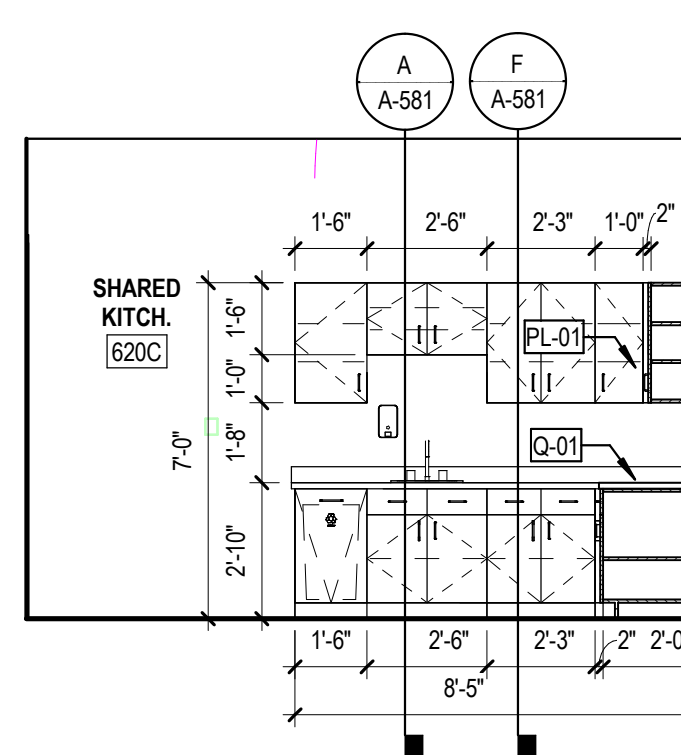
**C** WORKPLACE HUB - CASEWORK ELEVATION C  
3/8" = 1'-0"



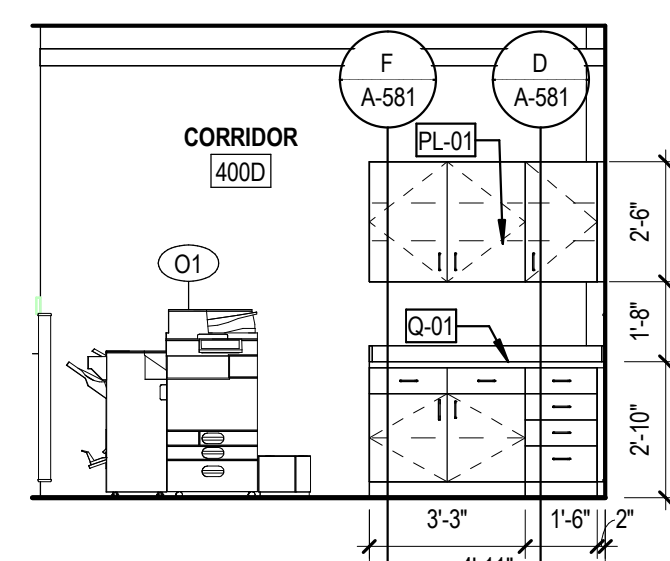
**G** WORKPLACE - COPY  
1/4" = 1'-0"



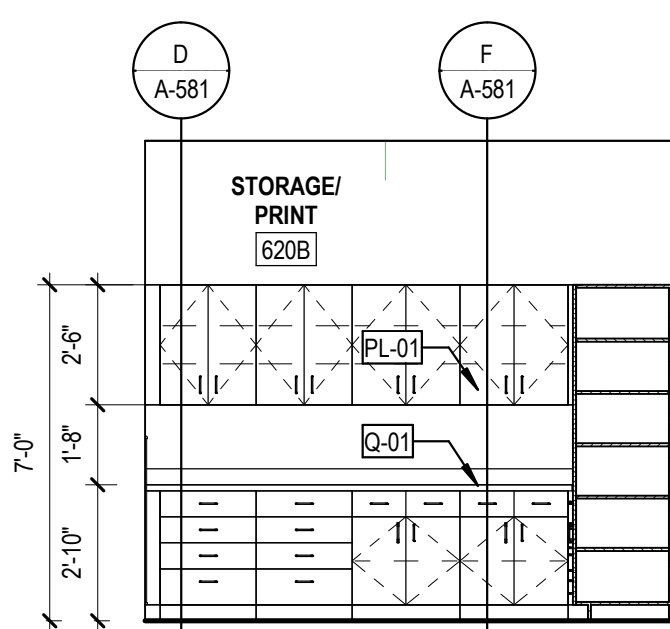
**L** SIXTH FLOOR - STORAGE/PRINT  
1/4" = 1'-0"



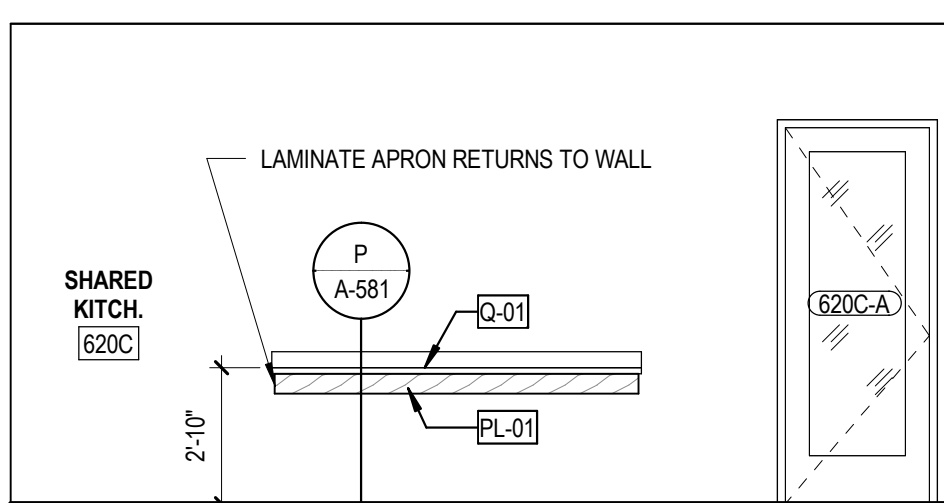
**Q** SIXTH FLOOR - SHARED KITCHEN  
1/4" = 1'-0"



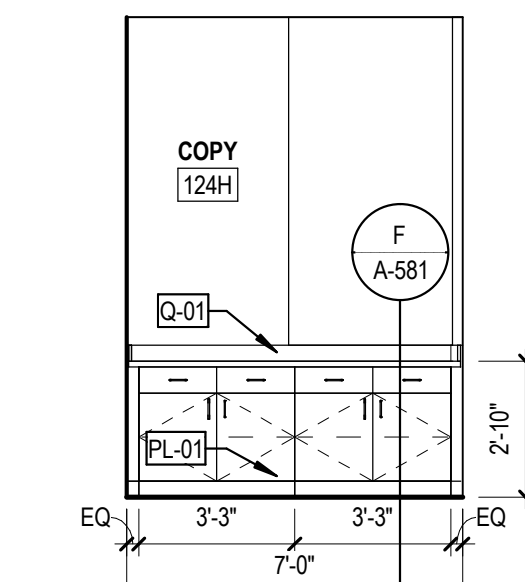
**H** WORKPLACE - COPY  
1/4" = 1'-0"



**M** SIXTH FLOOR - STORAGE/PRINT  
1/4" = 1'-0"



**R** SIXTH FLOOR - SHARED KITCHEN  
1/4" = 1'-0"



**D** FIRST FLOOR - COPY  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100 - VISUAL DISPLAY SURFACES			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 9') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (2' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
10 2239 - FOLDING PANEL PARTITIONS			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
10 2800 - WALL & DOOR PROTECTION			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
10 2800 - TOILET ACCESSORY			
T01	GRAB BAR SET - 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET - 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	O.F.C.I.	
T14	BABY CHANGING STATION	O.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
10 4313 - DEFIBRILLATOR CABINETS			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
10 4413 - FIRE EQUIPMENT			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
10 5113 - LOCKERS			
L1	REFRIGERATOR LOCKER	O.F.C.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
11 1319 - LOADING DOCK EQUIPMENT			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
11 5200 - AV EQUIPMENT			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
11 5213 - PROJECTION SCREENS			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
12 2413 - ROLLER WINDOW SHADES			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
APPLIANCES			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
EQUIPMENT			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPIER	O.F.C.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.C.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.C.I.	
O6	E-WASTE RECEPTACLE	O.F.C.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.C.I.	

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BP-04F

MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
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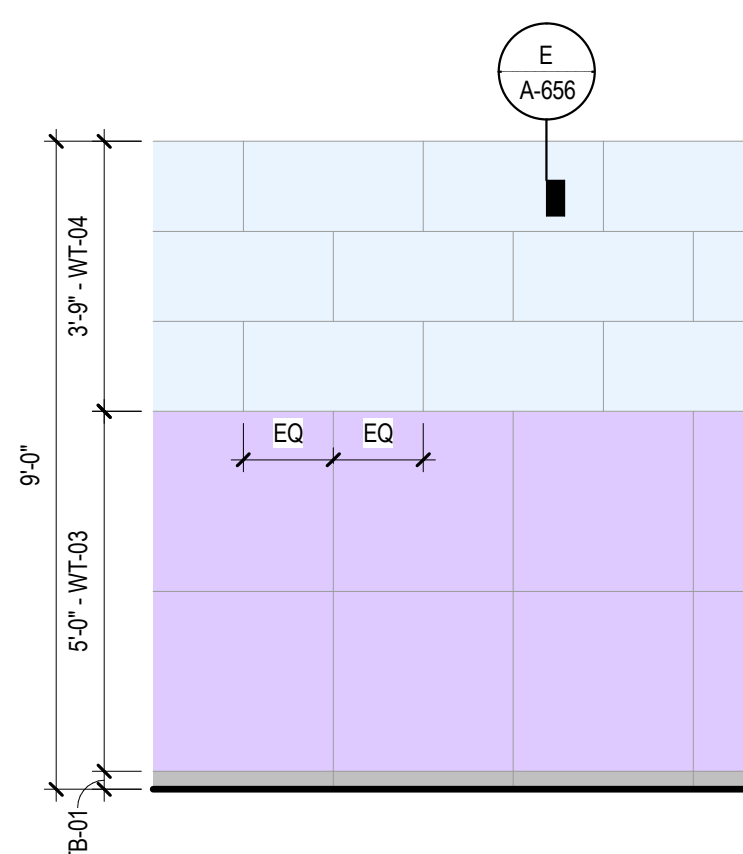
ARCHITECTURAL

PROJECT 202170  
DATE 08.29.24

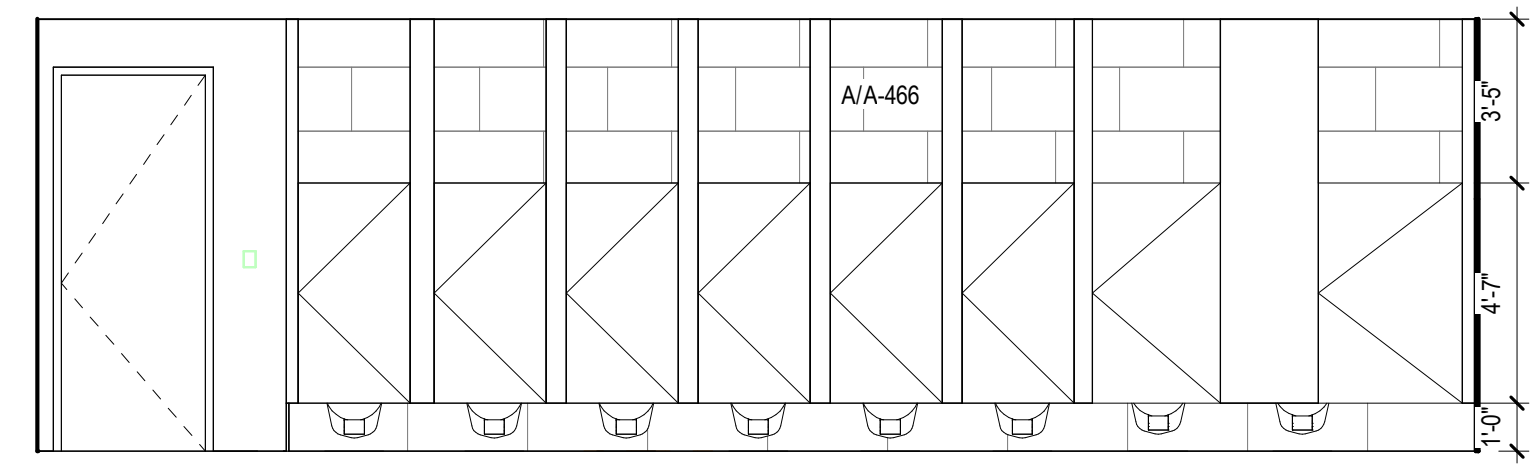
REVISIONS		
No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART, FOR ANY PURPOSES OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO REUSE THESE ELECTRONS IN ANY OTHER PROJECTS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR RELIANCE OF THE ELECTRONS FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

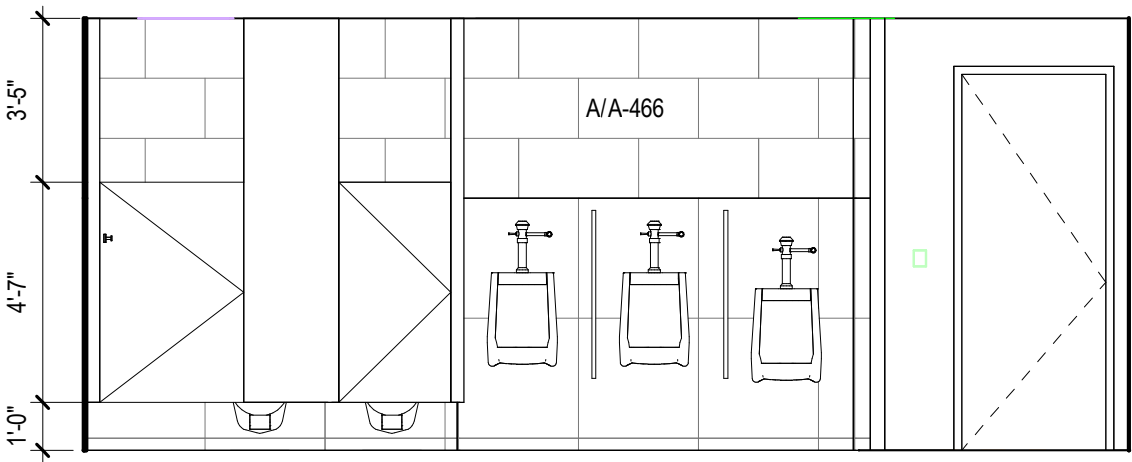
INTERIOR  
ELEVATIONS -  
WORKPLACE



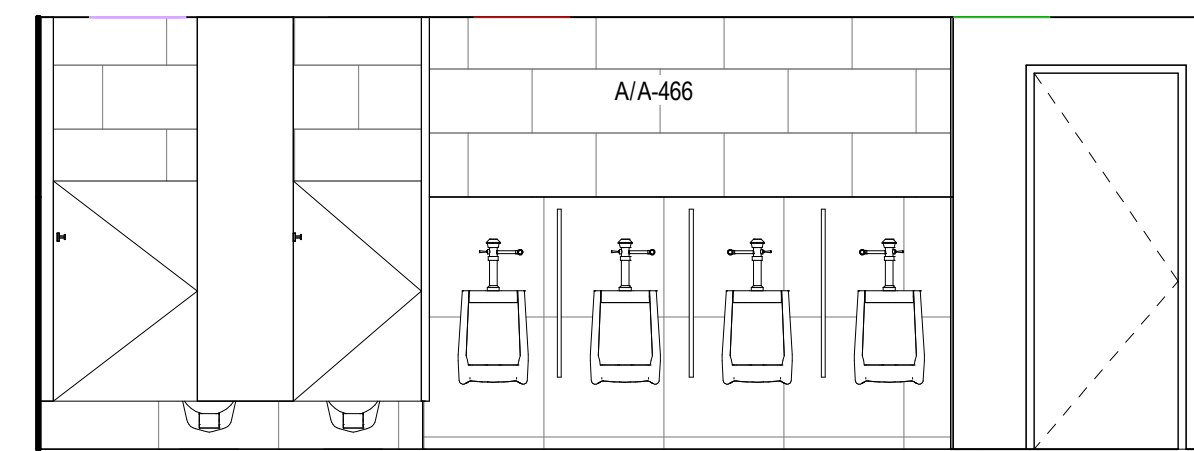
**A TYPICAL RESTROOM WALL TILE**  
3/8" = 1'-0"



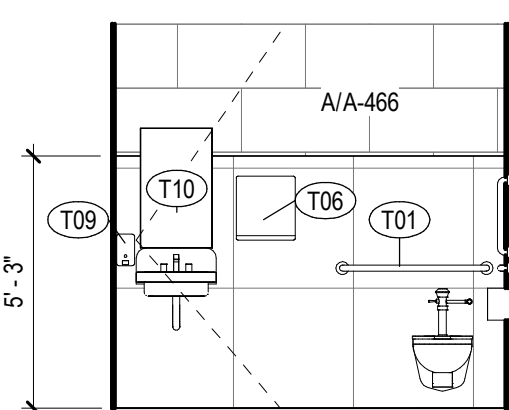
**D TYPICAL RESTROOM ELEVATION - CENTRAL CORE**  
1/4" = 1'-0"



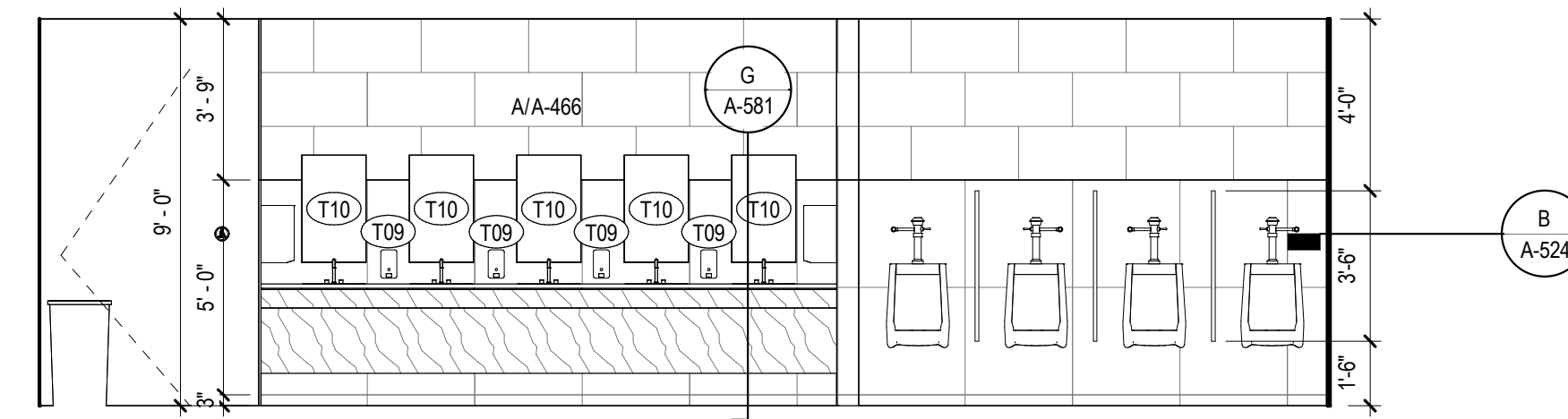
**G TYPICAL RESTROOM ELEVATION - SOUTH CORE**  
1/4" = 1'-0"



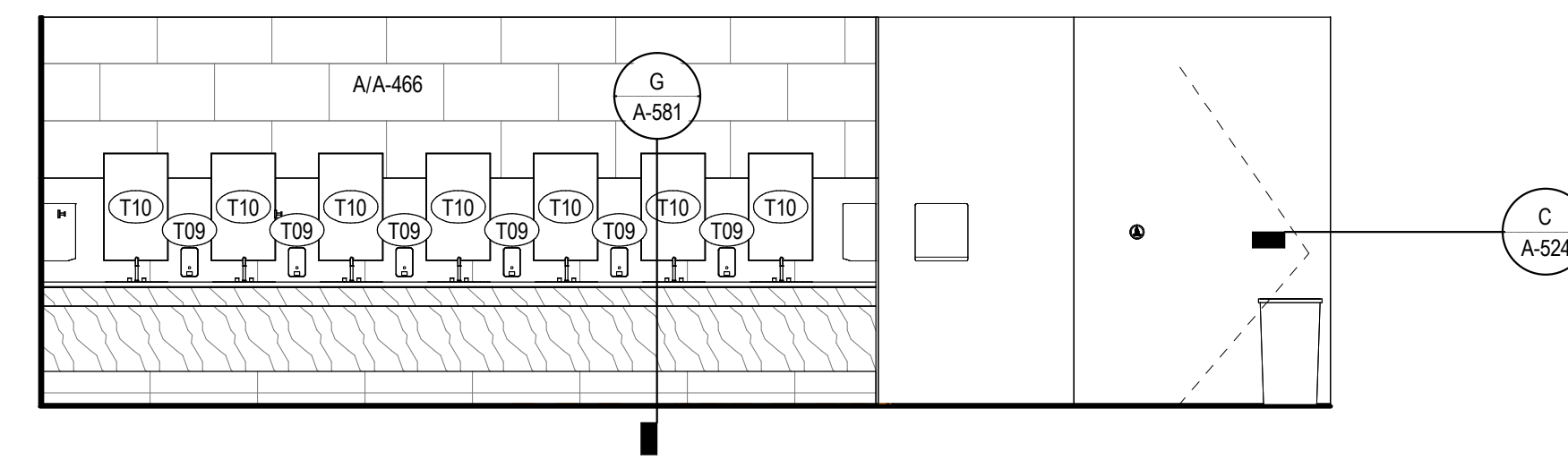
**K 9TH FLOOR RESTROOM ELEVATION**  
1/4" = 1'-0"



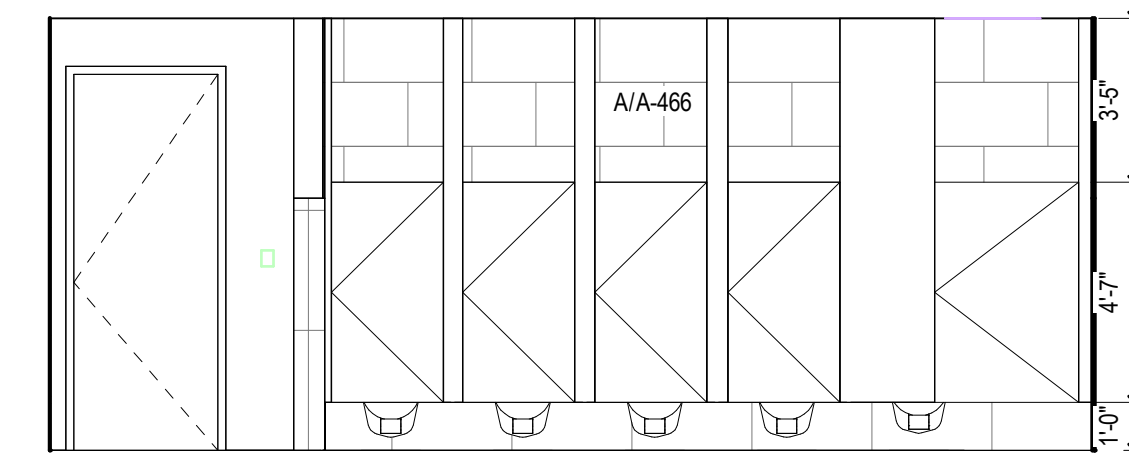
**R TYPICAL TOILET ELEVATION - CENTRAL CORE**  
1/4" = 1'-0"



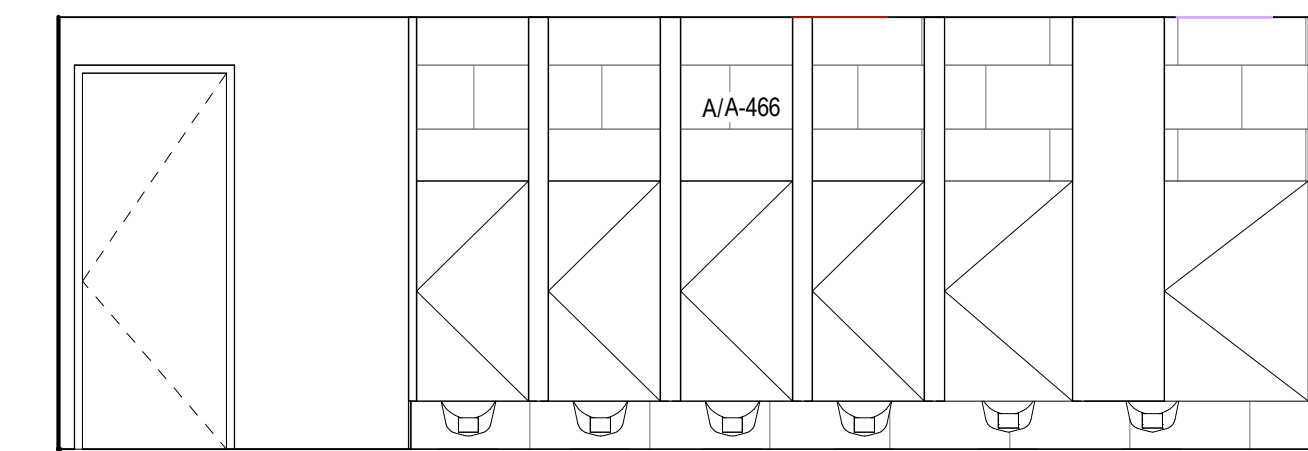
**B TYPICAL RESTROOM ELEVATION - CENTRAL CORE**  
1/4" = 1'-0"



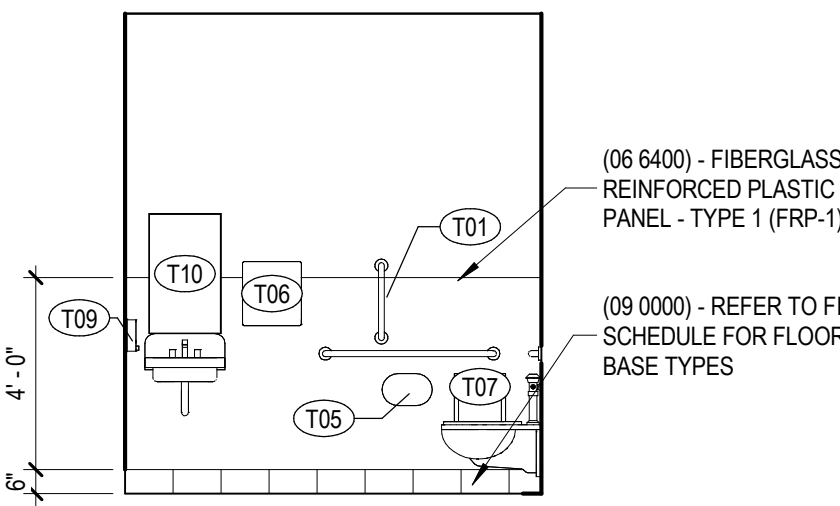
**E TYPICAL RESTROOM ELEVATION - CENTRAL CORE**  
1/4" = 1'-0"



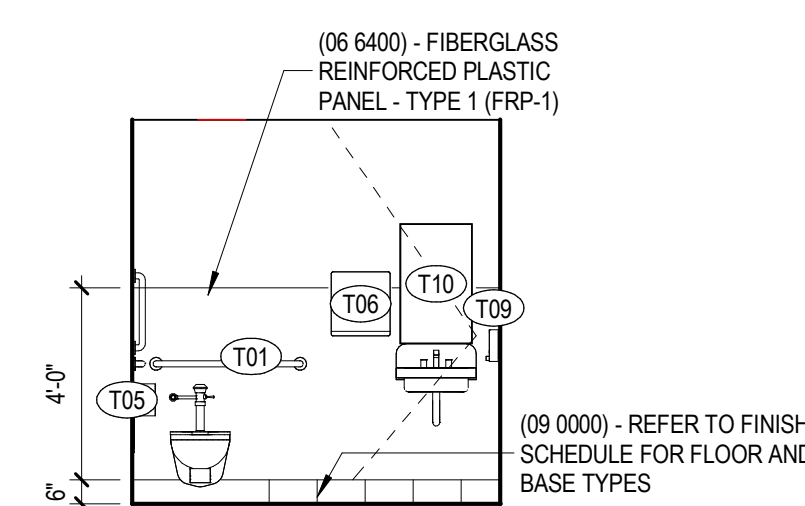
**H TYPICAL RESTROOM ELEVATION - SOUTH CORE**  
1/4" = 1'-0"



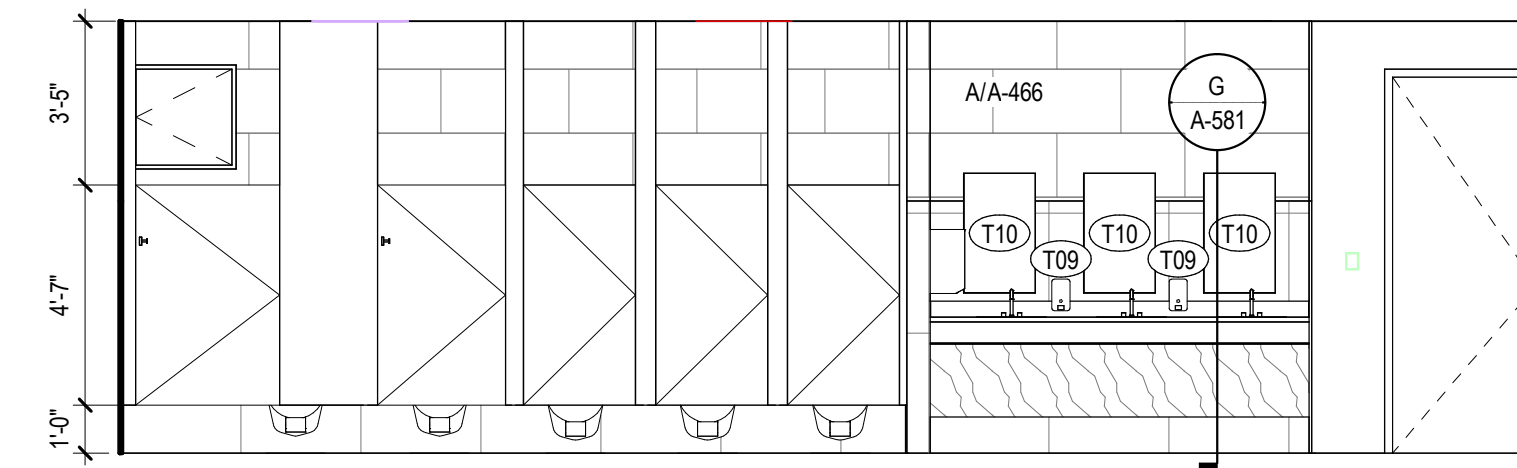
**N 9TH FLOOR RESTROOM ELEVATION**  
1/4" = 1'-0"



**S BIKE STORAGE TOILET ELEVATION**  
1/4" = 1'-0"



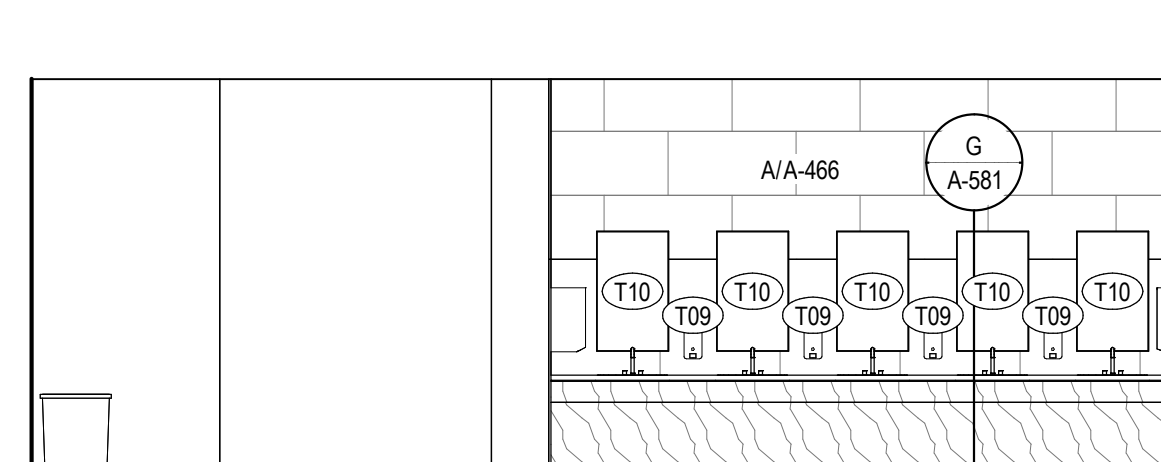
**T TYPICAL SP TOILET**  
1/4" = 1'-0"



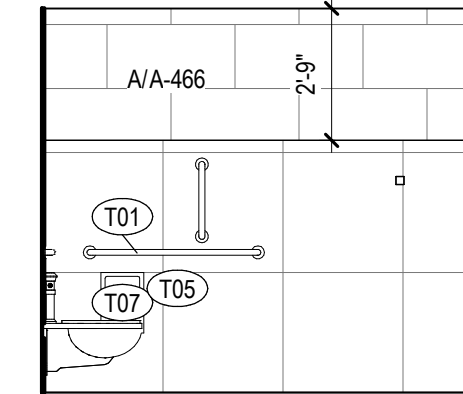
**C TYPICAL RESTROOM ELEVATION - CENTRAL CORE**  
1/4" = 1'-0"



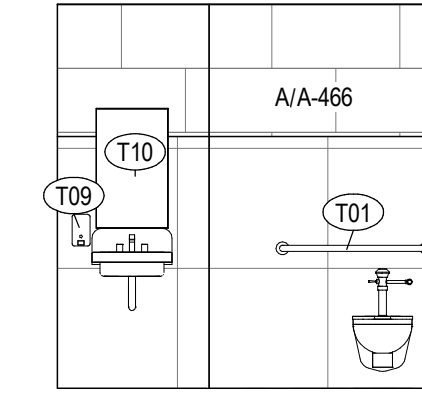
**F TYPICAL RESTROOM ELEVATION - SOUTH CORE**  
1/4" = 1'-0"



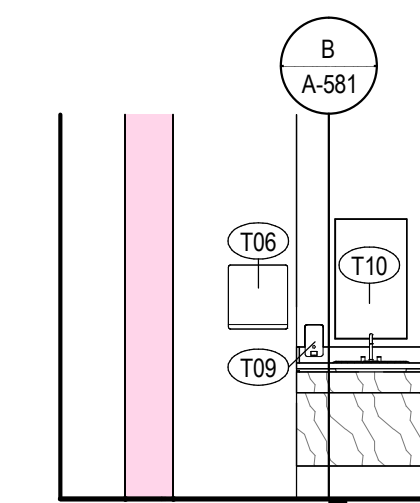
**J 9TH FLOOR RESTROOM ELEVATION**  
1/4" = 1'-0"



**M TOILET 914 ELEVATION**  
1/4" = 1'-0"



**P TOILET 914 ELEVATION**  
1/4" = 1'-0"



**Q LACTATION ELEVATION**  
1/4" = 1'-0"

MARK	DESCRIPTION	PROVIDED BY	COMMENTS
10 1100	VISUAL DISPLAY SURFACES		
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 4') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 9') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 8') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (2' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
10 2239	FOLDING PANEL PARTITIONS		
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
10 2800	WALL & DOOR PROTECTION		
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
10 2800	TOILET ACCESSORY		
T01	GRAB BAR SET - 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET - 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED 27" X 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED 18" X 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	C.F.C.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	C.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SOAP DISPENSER - SURFACE MOUNTED, VERTICAL	C.F.C.I.	
T10	FRAMELESS MIRROR - 18" X 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" X 60"	C.F.C.I.	
10 4313	DEFIBRILLATOR CABINETS		
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
10 4413	FIRE EQUIPMENT		
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
10 5113	LOCKERS		
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER S OR Z STYLE LOCKER	C.F.C.I.	
L4	PLASTIC/LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"x20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"x20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
11 1319	LOADING DOCK EQUIPMENT		
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
11 5200	AV EQUIPMENT		
O2	WALL MOUNTED MONITOR	C.F.C.I.	
11 5213	PROJECTION SCREENS		
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
12 2413	ROLLER WINDOW SHADES		
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
APPLIANCES			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
EQUIPMENT			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE A/V
O1	COPPER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE A/V
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE A/V
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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St. Louis, MO 63102  
314.421.2000

BP-04F

MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING UNIVERSITY OF KENTUCKY, BLDG NO. 0724 1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



ARCHITECTURAL

PROJECT 202170

DATE 08.29.24

REVISIONS

No.	Description	Date

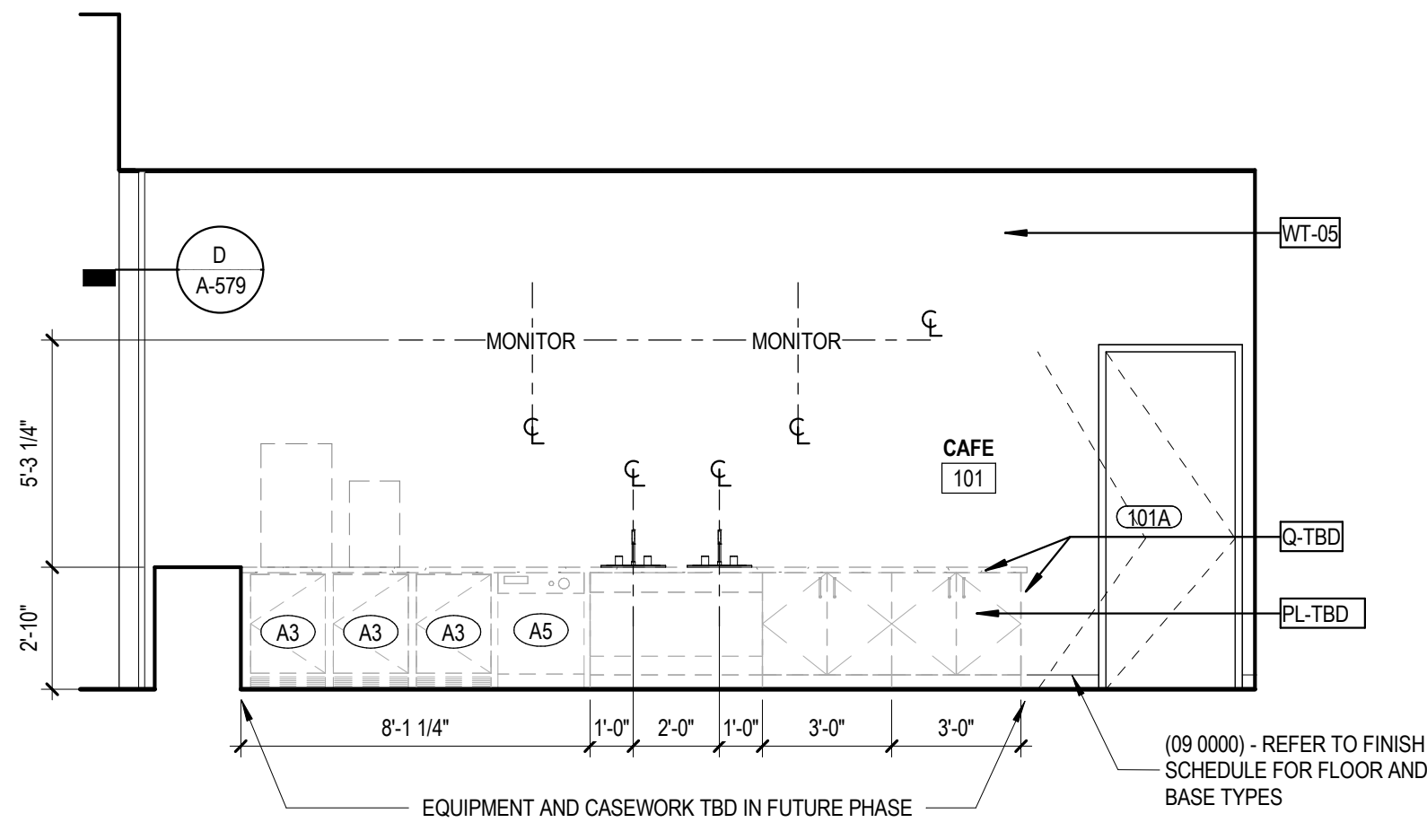
JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN ELECTRONIC OR ANY OTHER FORMAT IN ANY MANNER OR FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR RELIANCE ON THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

INTERIOR ELEVATIONS - RESTROOMS

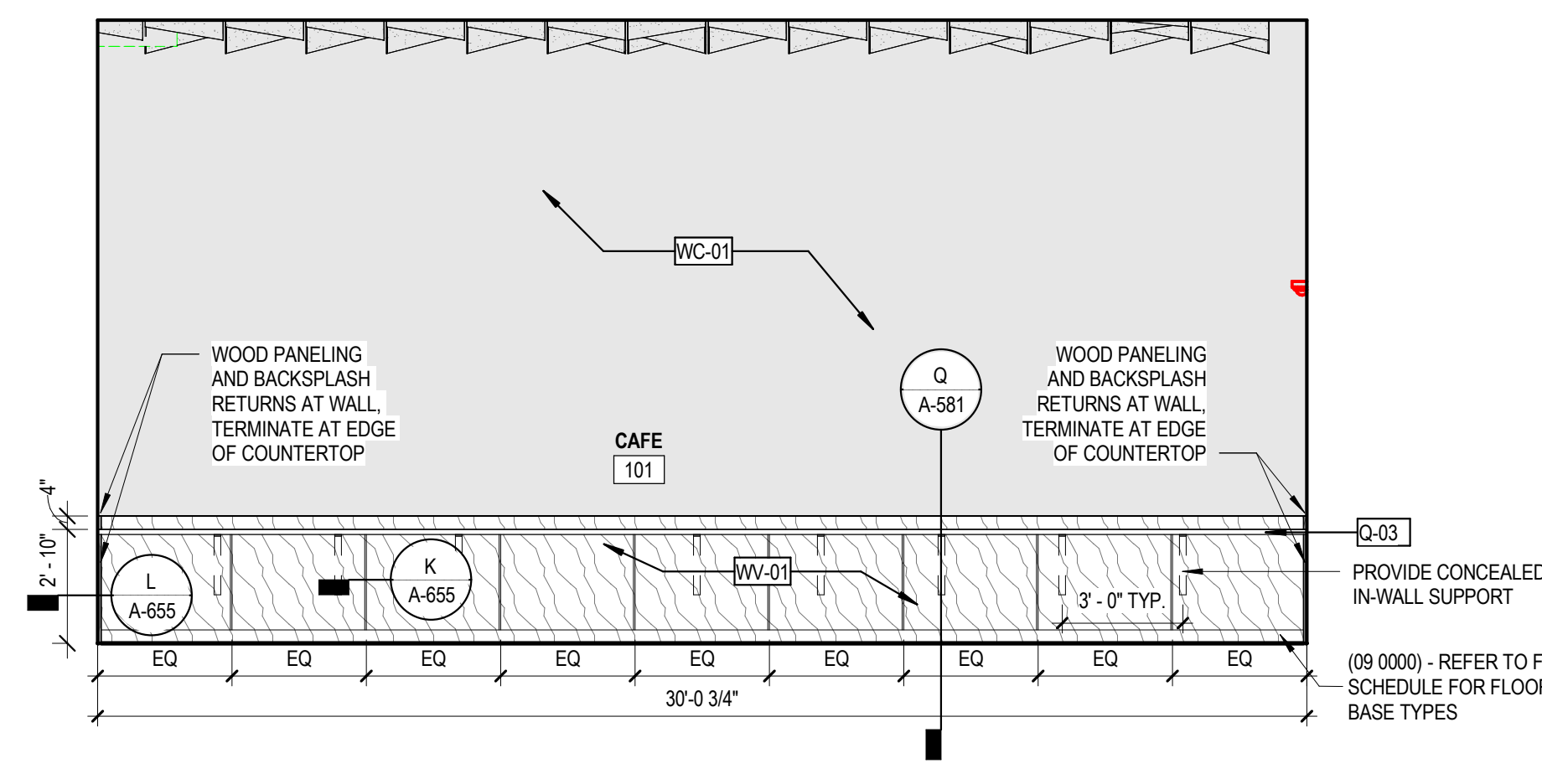
A-466

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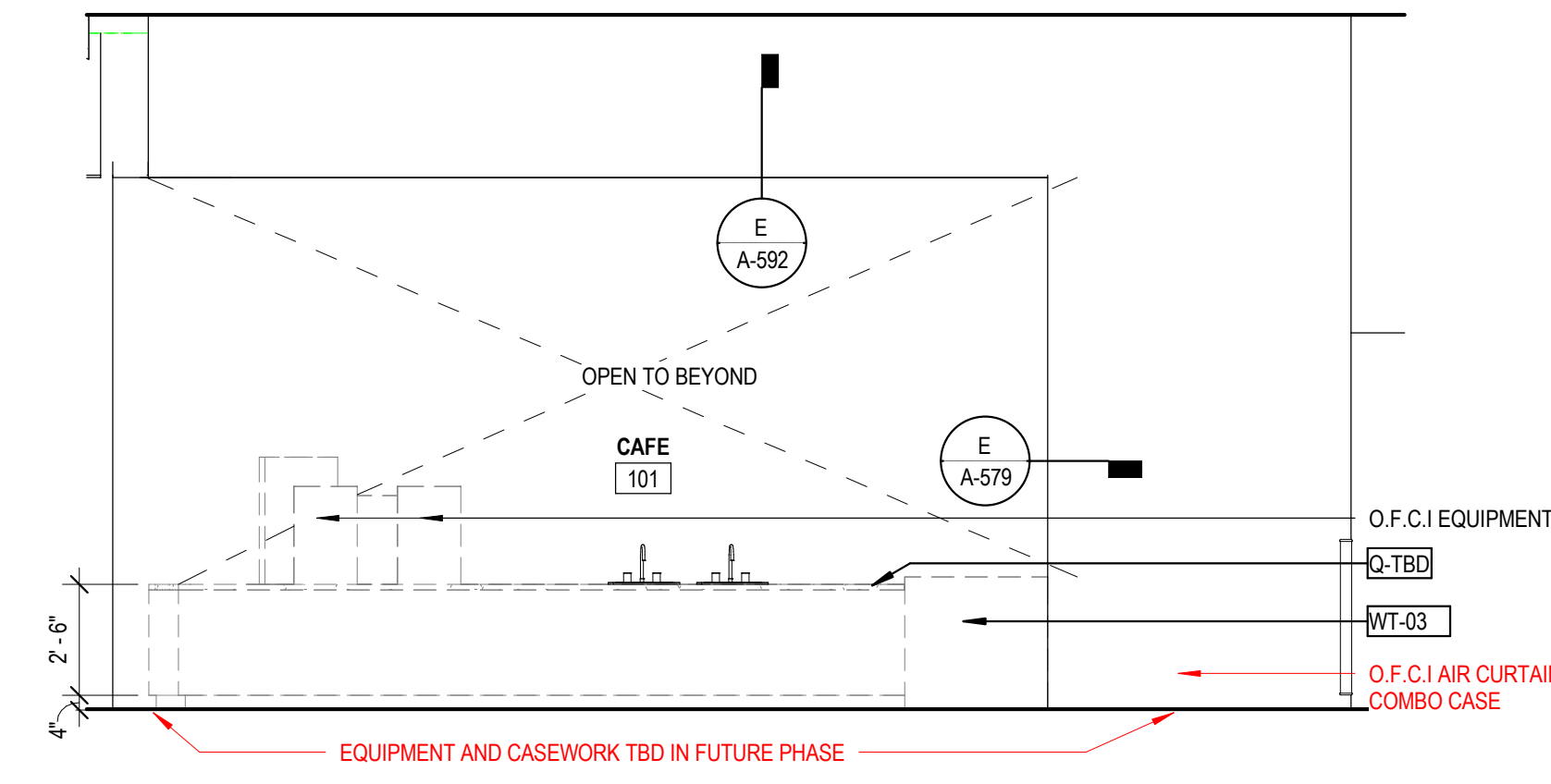




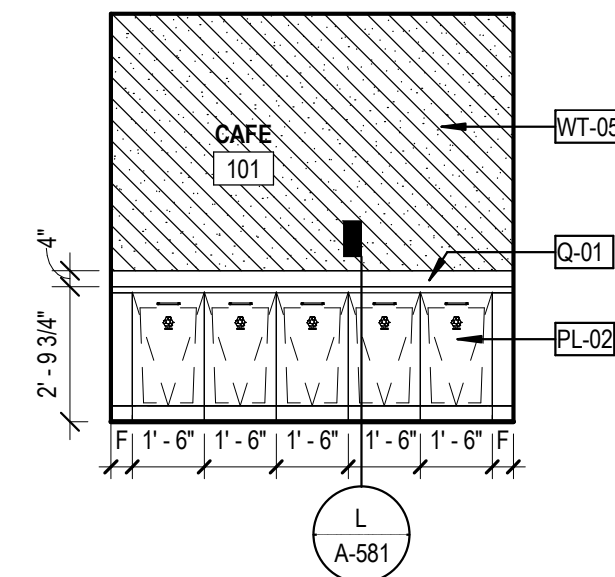
**A WILDCAT BREW - BACK WALL**  
1/4" = 1'-0"



**B WILDCAT BREW - DRY BAR**  
1/4" = 1'-0"



**C WILDCAT BREW - SERVICE COUNTER**  
1/4" = 1'-0"



**D WILDCAT BREW - WASTE**  
1/4" = 1'-0"

SPECIALTIES & EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	PROVIDED BY	COMMENTS
<b>10 1100 - VISUAL DISPLAY SURFACES</b>			
V01	MARKER BOARD (4' X 8') (WHITE)	C.F.C.I.	
V02	MARKER BOARD (4' X 8') (DARK BLUE)	C.F.C.I.	
V03	MARKER BOARD (4' X 7') (WHITE)	C.F.C.I.	
V04	MARKER BOARD (4' X 7') (DARK BLUE)	C.F.C.I.	
V06	MARKER BOARD (4' X 12') (DARK BLUE)	C.F.C.I.	
V08	MARKER BOARD (4' X 12') (WHITE)	C.F.C.I.	
V09	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V10	MARKER BOARD (4' X 4') (WHITE)	C.F.C.I.	
V11	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	VERTICAL
V12	MARKER BOARD (10' X 4') (DARK BLUE)	C.F.C.I.	ANGLE CUT
V13	MARKER BOARD (4' X 10') (WHITE)	C.F.C.I.	
V14	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V15	MARKER BOARD (4' X 6') (WHITE)	C.F.C.I.	
V16	MARKER BOARD (4' X 6') (DARK BLUE)	C.F.C.I.	
V17	MARKER BOARD (4' X 9') (DARK BLUE)	C.F.C.I.	
V18	MARKER BOARD (6' X 8') (DARK BLUE)	C.F.C.I.	
V19	MARKER BOARD (FILLER) (DARK BLUE)	C.F.C.I.	
V20	MARKER BOARD (8' X 4') (WHITE)	C.F.C.I.	VERTICAL
V21	MARKER BOARD (2' X 3') (WHITE)	C.F.C.I.	VERTICAL
<b>10 2239 - FOLDING PANEL PARTITIONS</b>			
FP01	FOLDING OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
FP02	VERTICAL OPERABLE ACOUSTICAL PANEL PARTITION	C.F.C.I.	
<b>10 2600 - WALL &amp; DOOR PROTECTION</b>			
CG-01	CORNER GUARD - 4" ABOVE TOP OF BASE	C.F.C.I.	<varies>
CG-02	STAINLESS STEEL WALL PROTECTION - 48" HIGH	C.F.C.I.	
<b>10 2800 - TOILET ACCESSORY</b>			
T01	GRAB BAR SET: 36" BACK, 42" SIDE, 18" VERTICAL	C.F.C.I.	
T02	GRAB BAR SET: 42" EACH SIDE, 18" VERTICAL EACH SIDE	C.F.C.I.	
T03	GRAB BAR - L SHAPED: 27" x 36"	C.F.C.I.	
T04	GRAB BAR - L SHAPED: 18" x 36"	C.F.C.I.	
T05	DOUBLE ROLL TOILET PAPER DISPENSER	O.F.O.I.	
T06	PAPER TOWEL DISPENSER - SURFACE MOUNTED	O.F.C.I.	
T07	SANITARY NAPKIN DISPOSAL - SURFACE MOUNTED	C.F.C.I.	
T08	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED	C.F.C.I.	
T09	SCAMP DISPENSER - SURFACE MOUNTED, VERTICAL	O.F.C.I.	
T10	FRAMELESS MIRROR - 18" x 30"	C.F.C.I.	
T11	ADA SHOWER SEAT	C.F.C.I.	
T12	SHOWER CURTAIN AND ROD	C.F.C.I.	
T13	COAT HOOK	C.F.C.I.	
T14	BABY CHANGING STATION	C.F.C.I.	
T15	UTILITY SHELF	C.F.C.I.	
T16	FRAMED MIRROR - 24" x 60"	C.F.C.I.	
<b>10 4313 - DEFIBRILLATOR CABINETS</b>			
D1	DEFIBRILLATOR CABINET	C.F.C.I.	
<b>10 4413 - FIRE EQUIPMENT</b>			
F1	RECESSED FIRE EXTINGUISHER CABINET	C.F.C.I.	
F2	BRACKET MOUNTED FIRE EXTINGUISHER	C.F.C.I.	
F3	STANDPIPE CABINET	C.F.C.I.	SEE MEP
<b>10 5113 - LOCKERS</b>			
L1	REFRIGERATOR LOCKER	O.F.O.I.	
L2	TRIPLE TIER LOCKER	C.F.C.I.	
L3	DOUBLE TIER 5 OR 2 STYLE LOCKER	C.F.C.I.	
L4	PLASTIC LAMINATE-CLAD SINGLE LOCKERS	C.F.C.I.	
L5	ADA CHANGING BENCH - NO BACK SUPPORT - 44"X20"	C.F.C.I.	
L6	ADA CHANGING BENCH - WITH BACK SUPPORT - 44"X20"	C.F.C.I.	
L7	DOUBLE TIER LOCKER	C.F.C.I.	
<b>11 1319 - LOADING DOCK EQUIPMENT</b>			
DL-1	RECESSED DOCK LEVELER	C.F.C.I.	
<b>11 5200 - AV EQUIPMENT</b>			
O2	WALL MOUNTED MONITOR	C.F.C.I.	
<b>11 5213 - PROJECTION SCREENS</b>			
P1	PROJECTION SCREEN	C.F.C.I.	SEE MEP
<b>12 2413 - ROLLER WINDOW SHADES</b>			
RS-1	MANUAL ROLLER SHADE (SURFACE MOUNTED)	C.F.C.I.	
RS-2	MOTORIZED ROLLER SHADE	C.F.C.I.	
RS-3	MOTORIZED ROLLER SHADE - BLACKOUT (SURFACE MOUNTED)	C.F.C.I.	
RS-4	MOTORIZED ROLLER SHADE - CENTRALIZED CONTROL	C.F.C.I.	
<b>APPLIANCES</b>			
A1	VENDING MACHINE	C.F.C.I.	
A2	REFRIGERATOR	C.F.C.I.	
A3	UNDER-COUNTER REFRIGERATOR	C.F.C.I.	
A4	MICROWAVE	C.F.C.I.	
A5	DISHWASHER	C.F.C.I.	
<b>EQUIPMENT</b>			
CON-004	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O1	COPIER	O.F.O.I.	
O2	WALL MOUNTED MONITOR	C.F.C.I.	SEE AV
O3	CEILING MOUNTED MONITOR	C.F.C.I.	SEE AV
O4	WIRE SHELVING	O.F.O.I.	
O5	UK WASTE RECEPTACLE - SS MODEL 1	O.F.O.I.	
O6	E-WASTE RECEPTACLE	O.F.O.I.	
O7	UK WASTE RECEPTACLE - RESTROOM	O.F.O.I.	



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EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT 202170

DATE 08.29.24

REVISIONS		
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**INTERIOR ELEVATIONS - WILDCAT BREW**

**A-467**

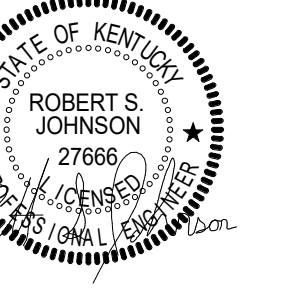
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**TAGGED NOTES**  
P12 PROVIDE SLEEVED OPENING IN FOUNDATION.  
COORDINATE PIPE SIZE AND ELEVATORS.

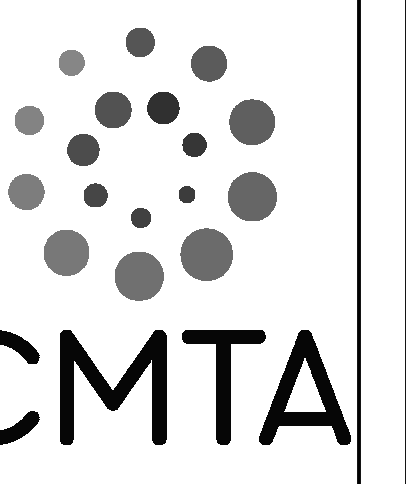
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**PLUMBING**

PROJECT 202170/XKSM21  
DATE 08.09.2024

**REVISIONS**

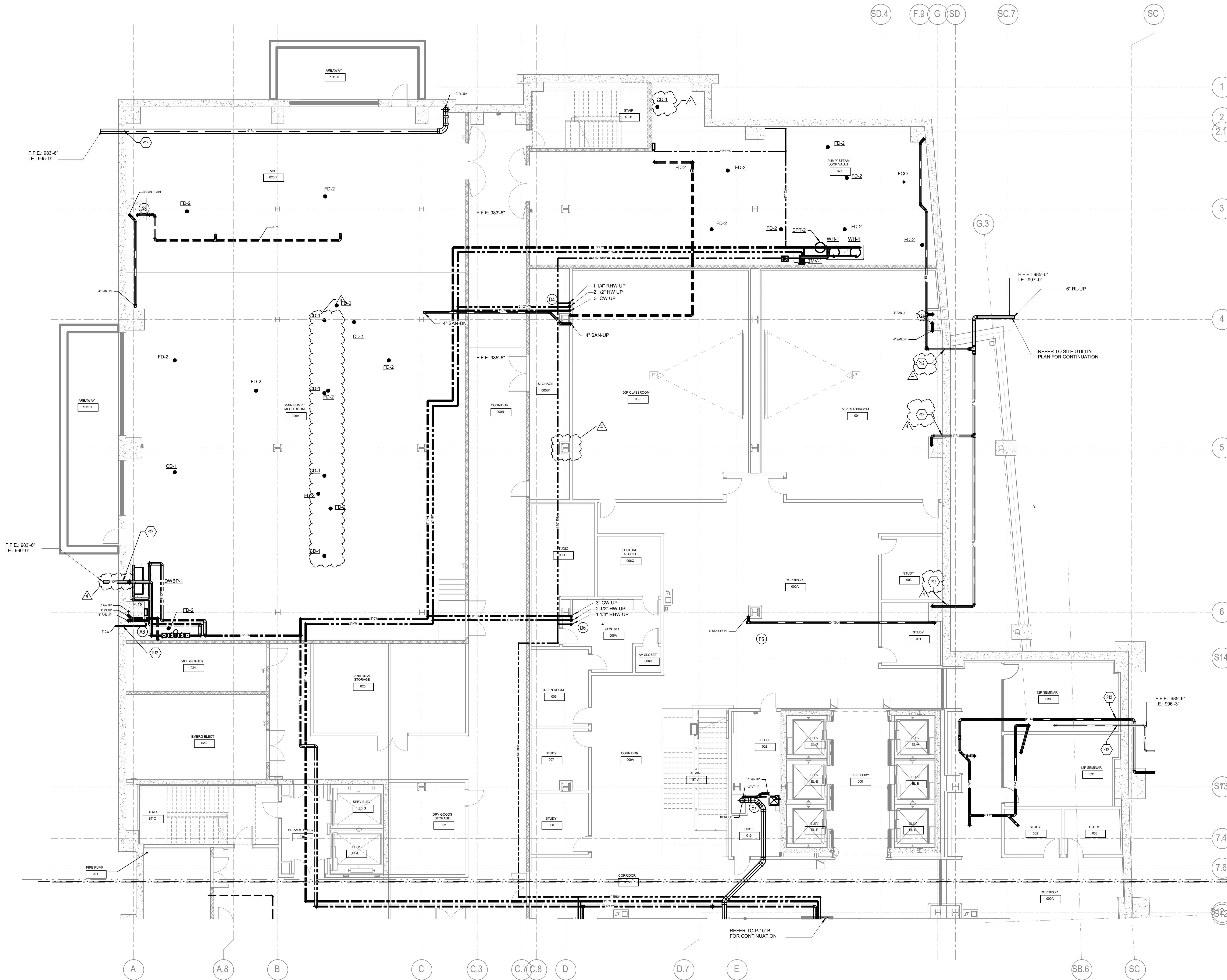
No.	Description	Date
4	ADDENDUM #2	10/1/24

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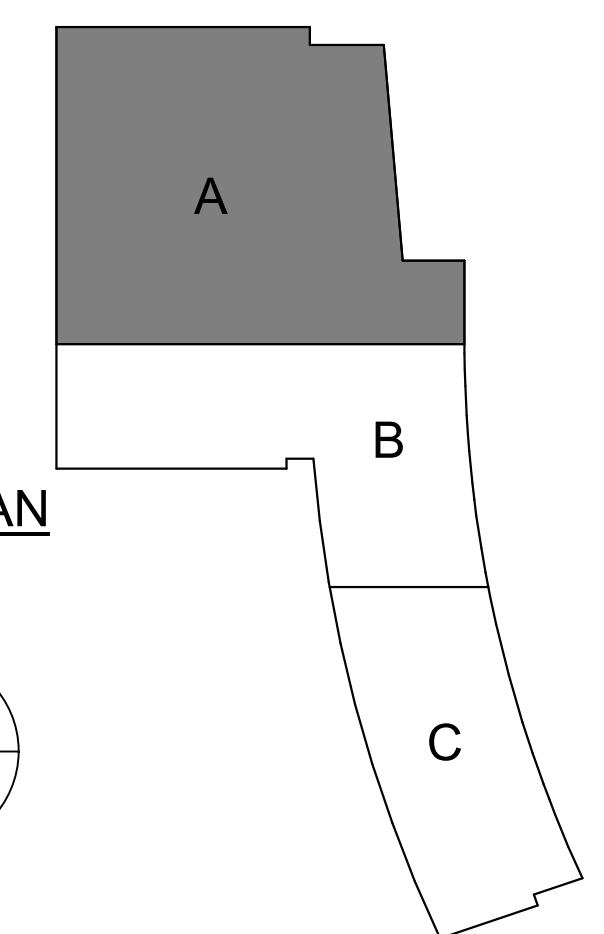
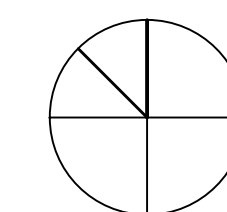
**PLUMBING - BASEMENT - AREA A**

**P-100A**

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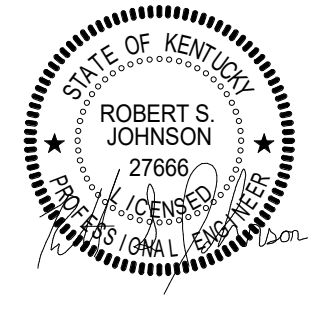
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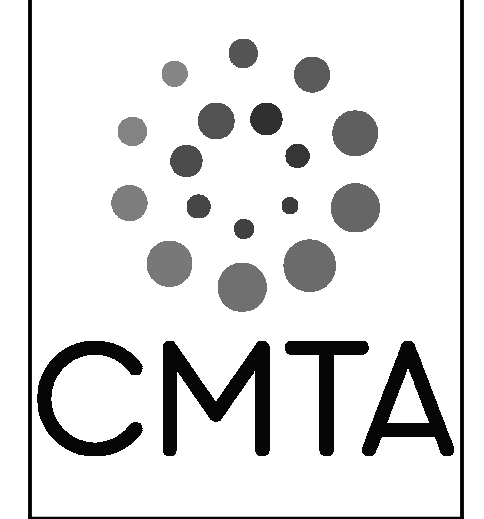
TAGGED NOTES  
P13 PROVIDE EXPANSION JOINT IN PIPE

#

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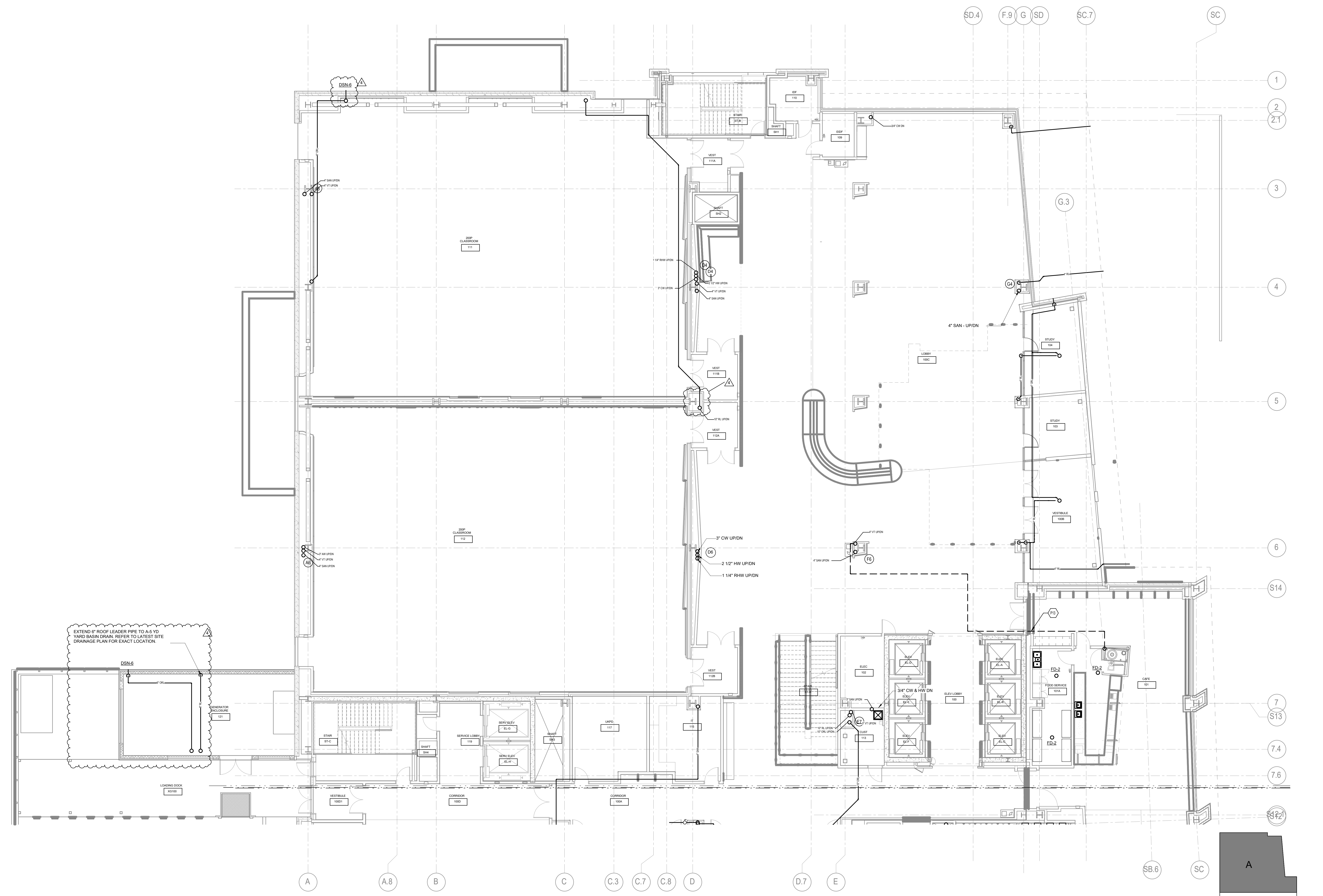
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**PLUMBING -  
FIRST FLOOR -  
AREA A**

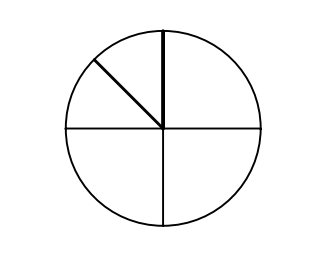
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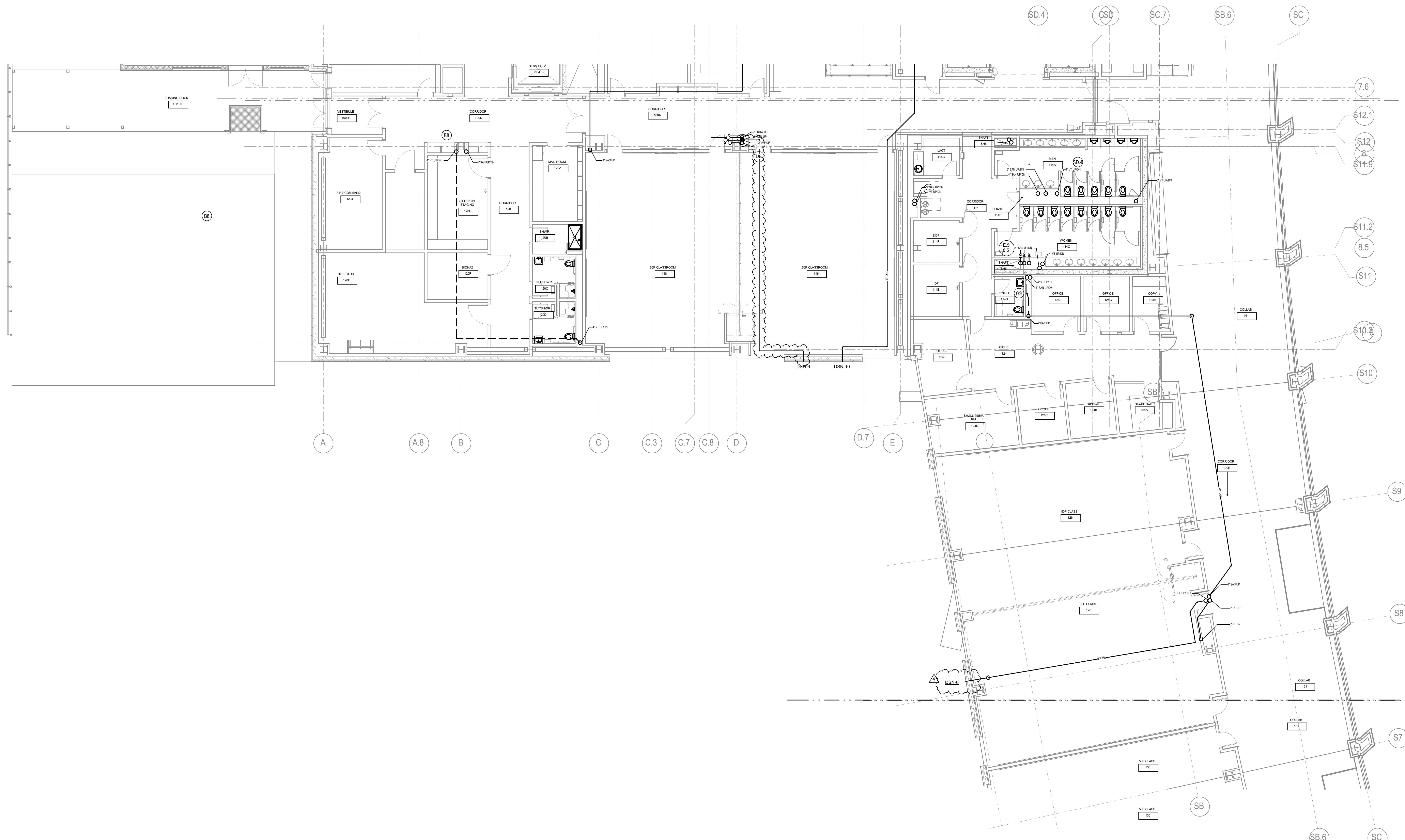
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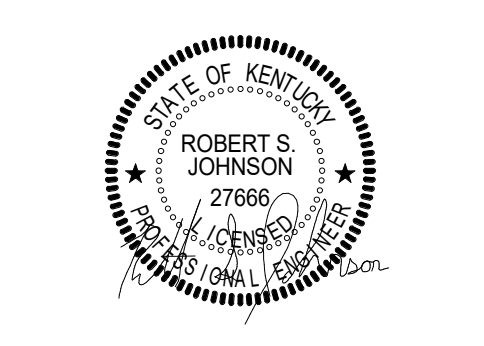
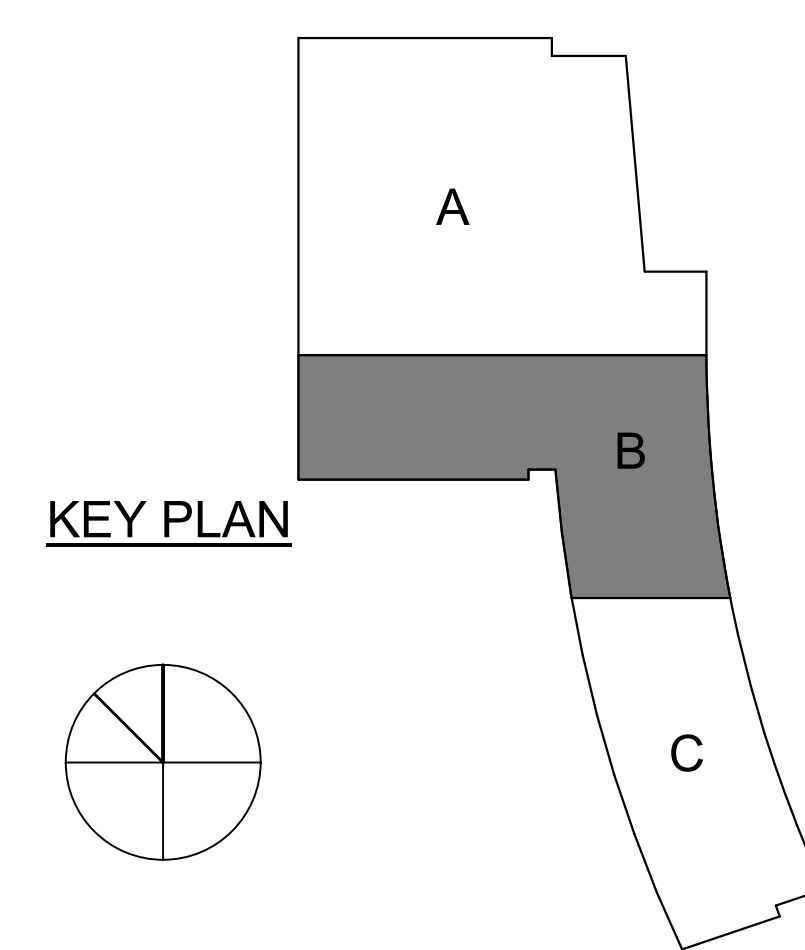
**1 PLUMBING - FIRST FLOOR - AREA A**  
1/8" = 1'-0"

KEY PLAN

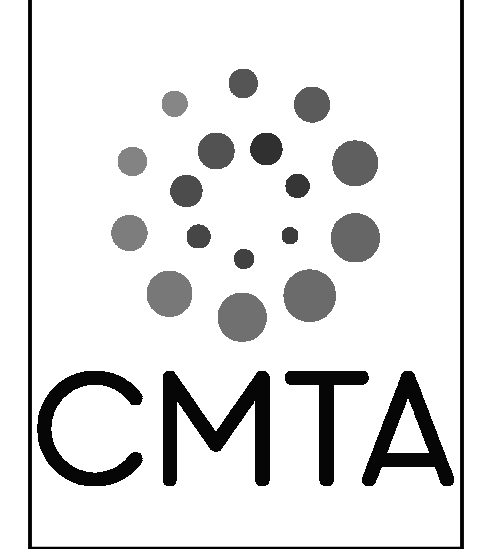




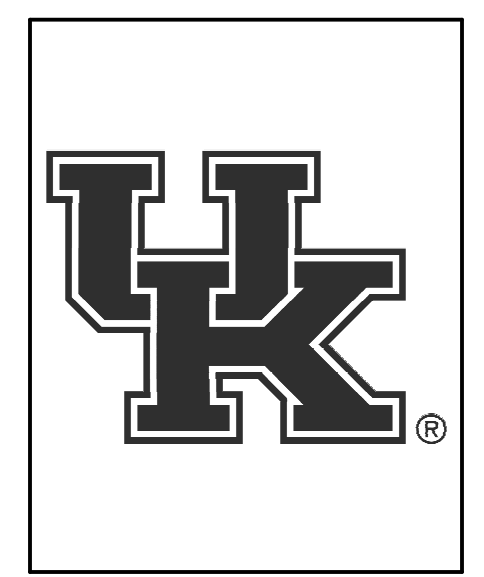
1 PLUMBING - FIRST FLOOR - AREA B  
1/8" = 1'-0"



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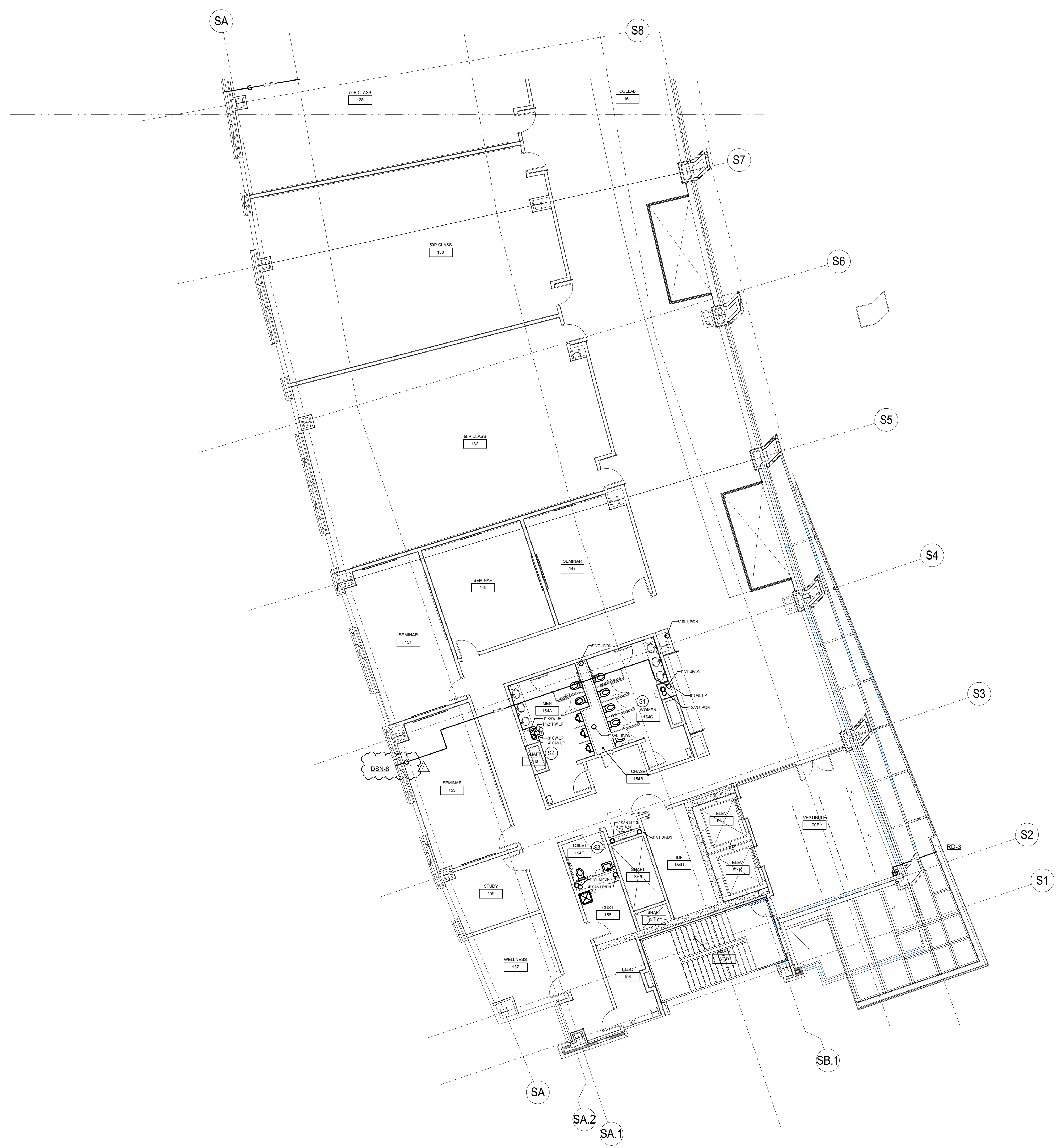
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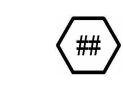
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**PLUMBING - FIRST FLOOR - AREA B**

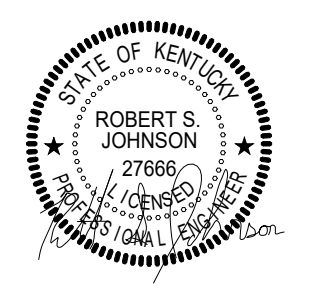


**1 PLUMBING - FIRST FLOOR - AREA C**  
1/8" = 1'-0"

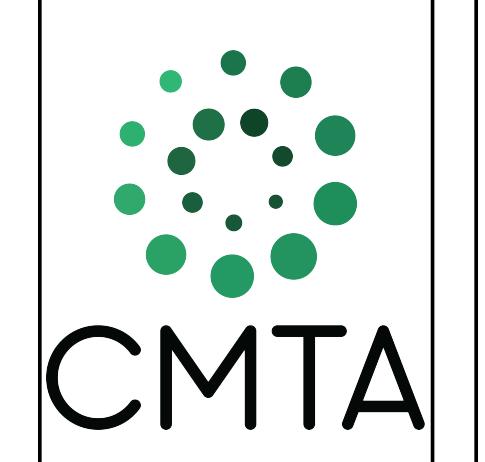
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PROJECT 202170/KKSM21  
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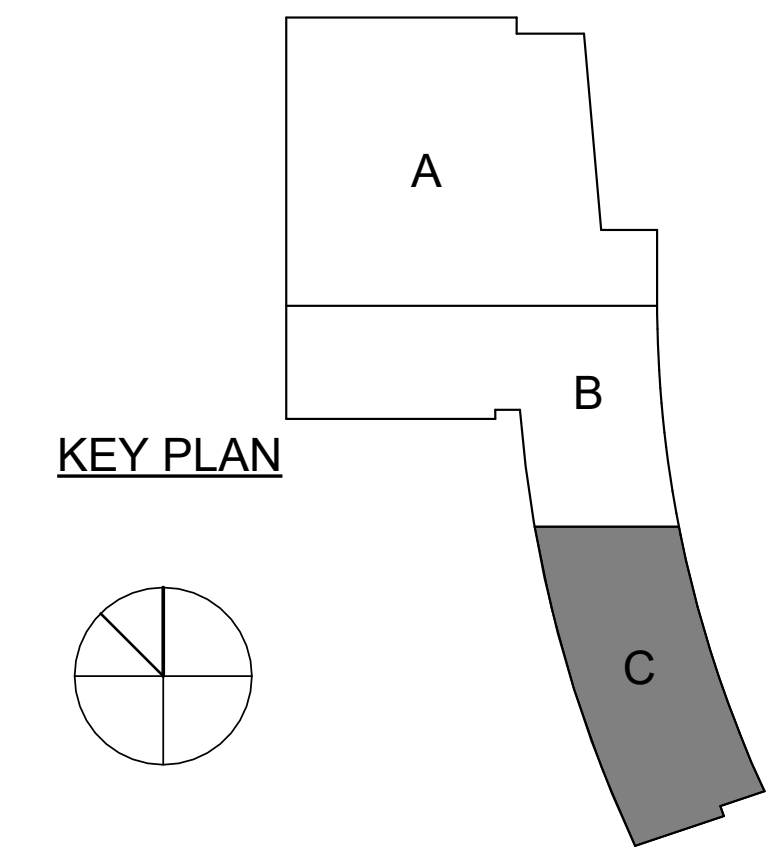
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4	ADDENDUM #2	10/1/24

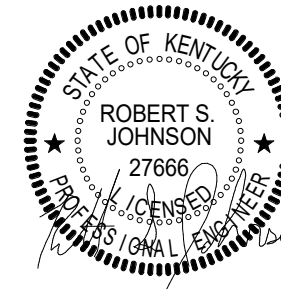
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**PLUMBING - FIRST FLOOR - AREA C**

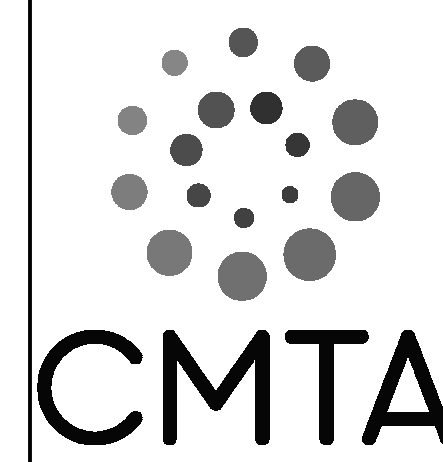
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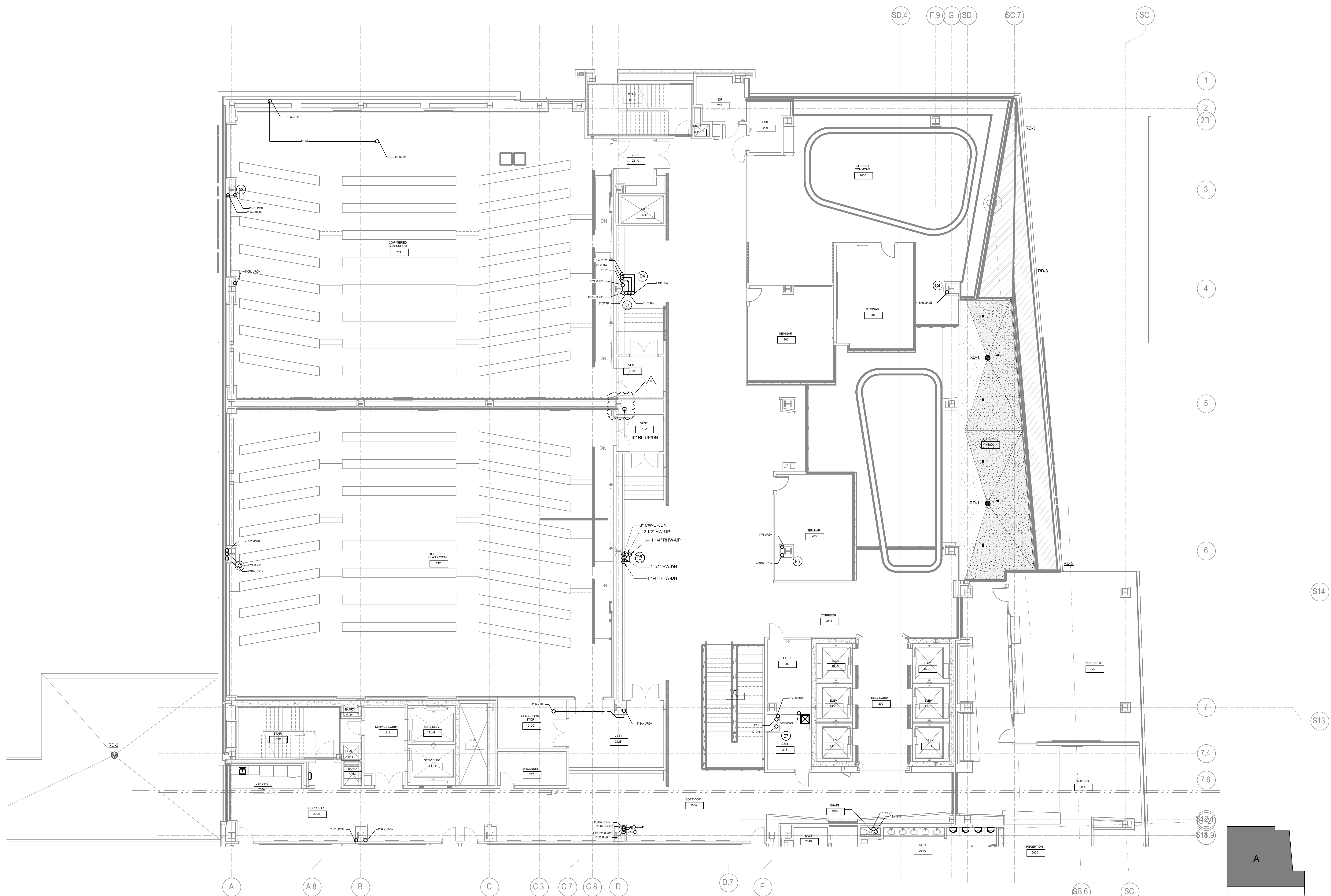
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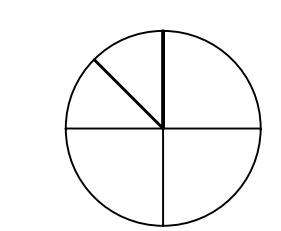
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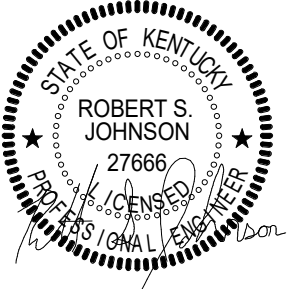
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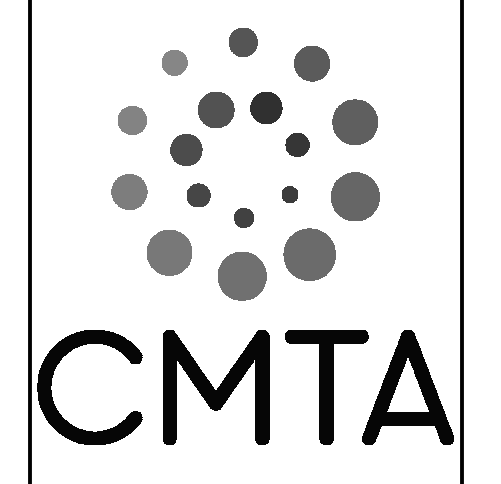
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1/8" = 1'-0"

KEY PLAN

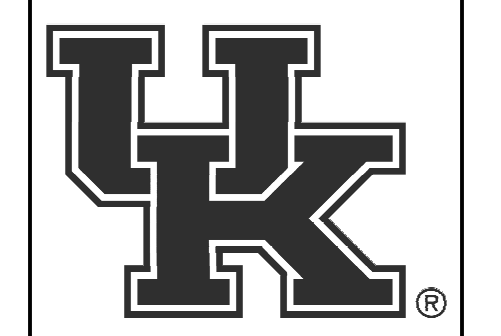




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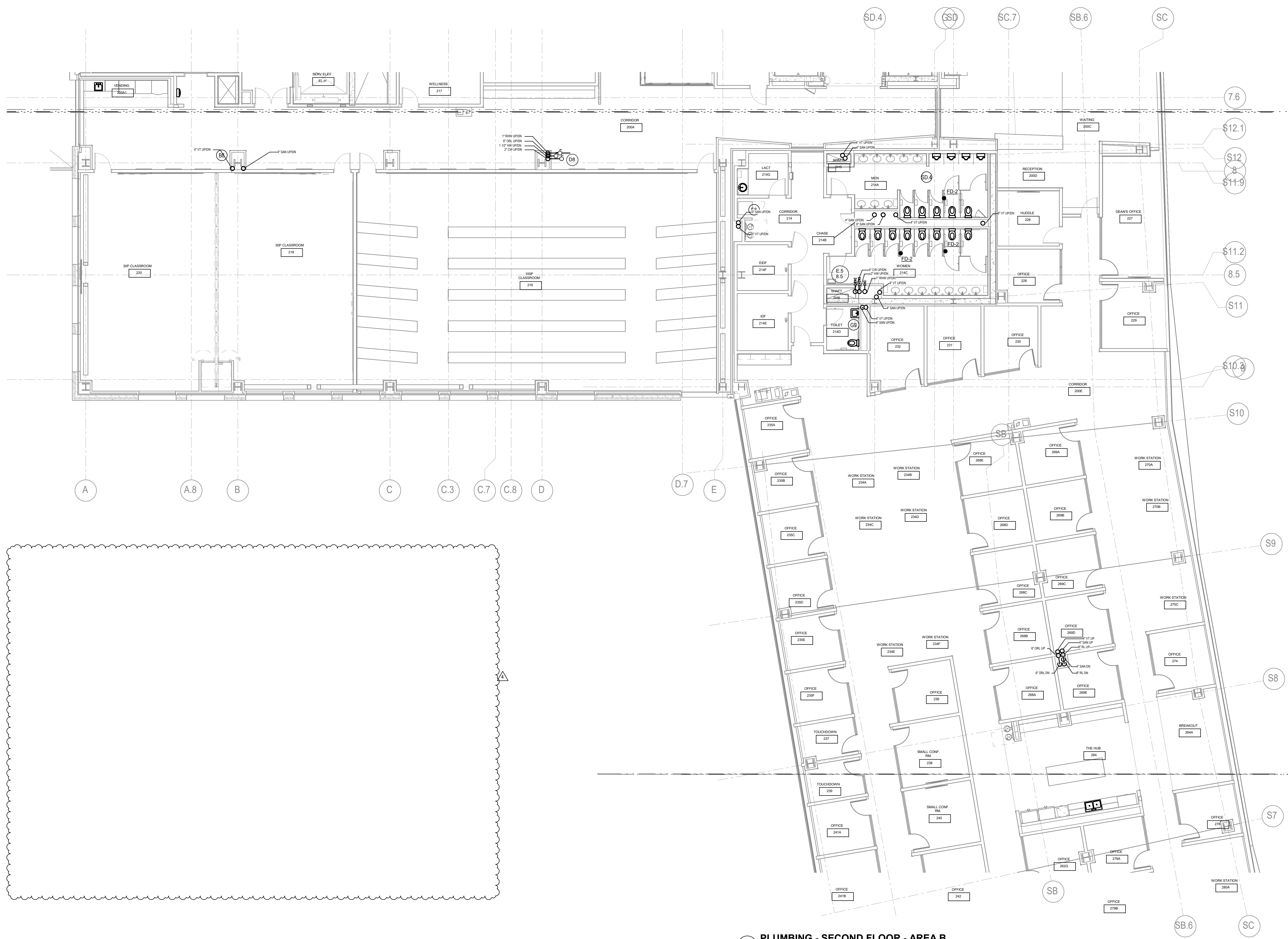
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PLUMBING - SECOND FLOOR - AREA B

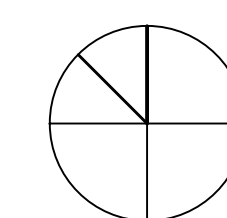
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1 PLUMBING - SECOND FLOOR - AREA B  
1/8" = 1'-0"

KEY PLAN



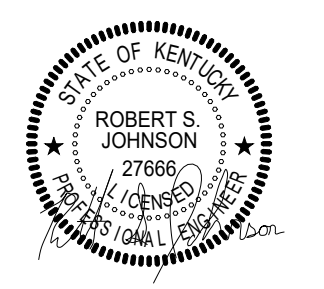


**1 PLUMBING - THIRD FLOOR - AREA A**  
1/8" = 1'-0"

TAGGED NOTES



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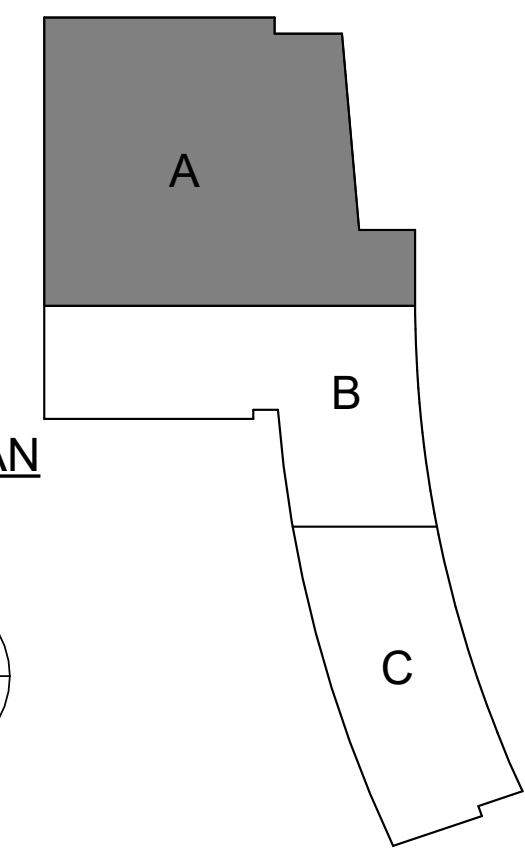
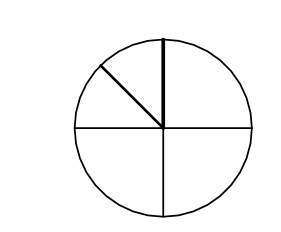
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**PLUMBING - THIRD FLOOR - AREA A**

**P-103A**

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KEY PLAN



SD.4 F.9 G SD SC.7

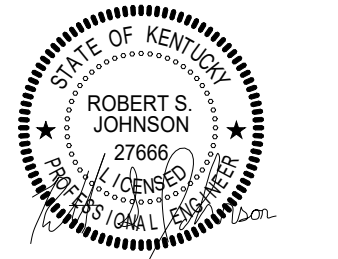
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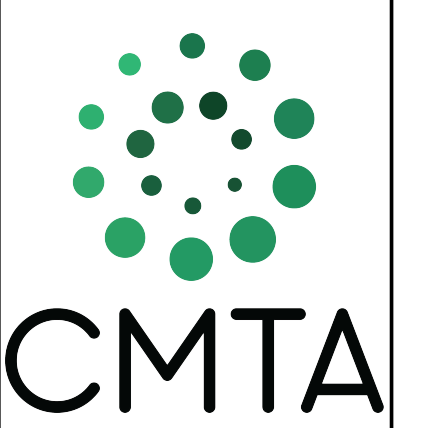




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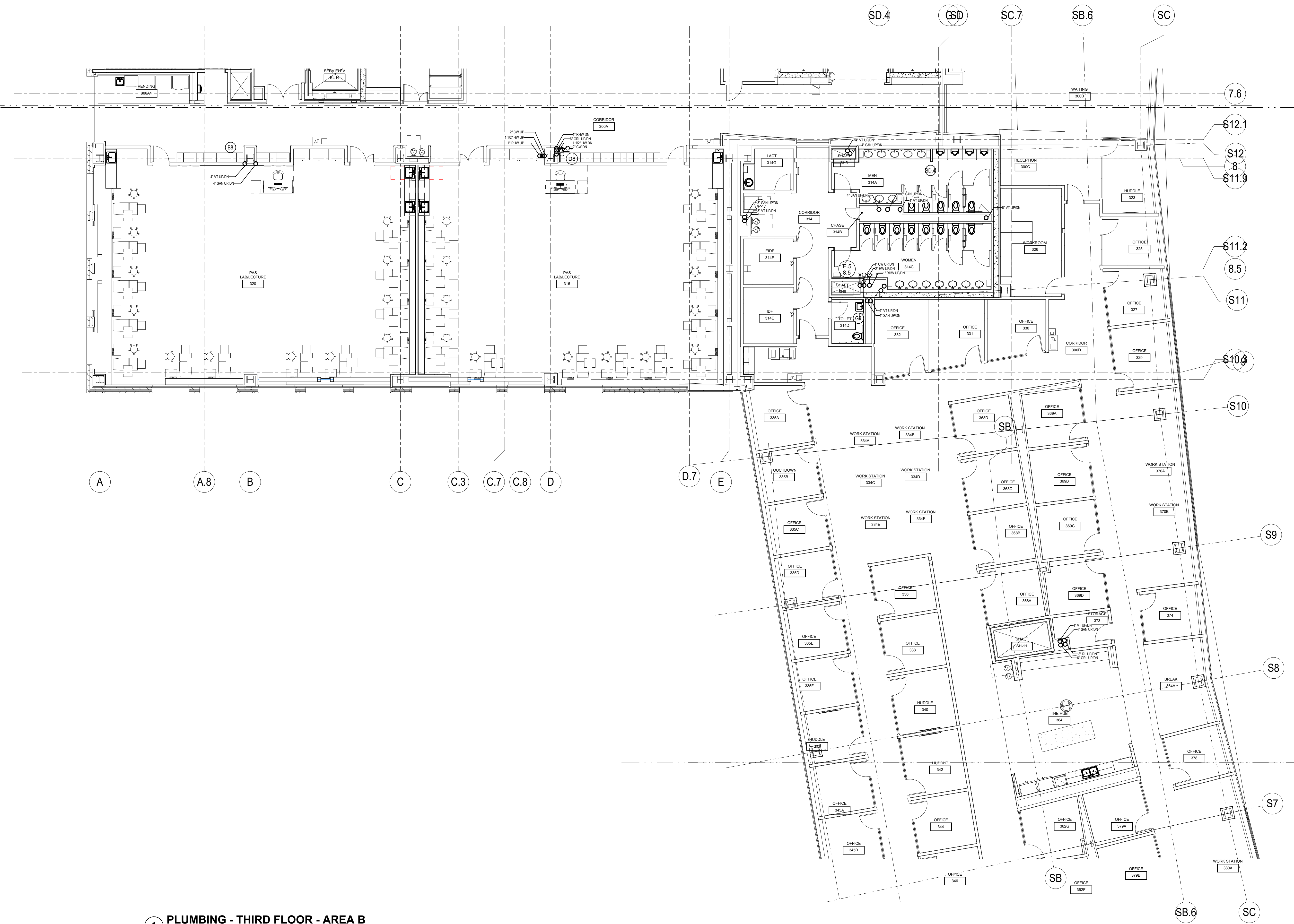
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REVISIONS	
No.	Description

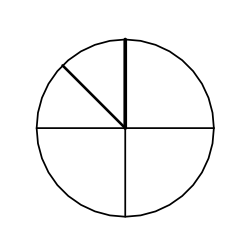
JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN ELECTRONIC OR ANY OTHER FORMAT IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PROPER WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT AGREES TO HOLD JRA ARCHITECTS HARMLESS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

**PLUMBING -  
THIRD FLOOR -  
AREA B**  
**P-103B**  
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**1 PLUMBING - THIRD FLOOR - AREA B**  
1/8" = 1'-0"

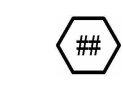
KEY PLAN



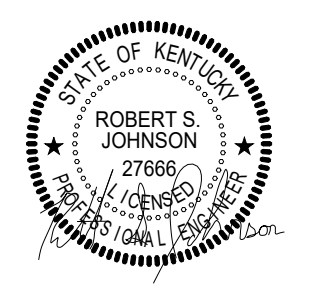


**1 PLUMBING - THIRD FLOOR - AREA C**  
1/8" = 1'-0"

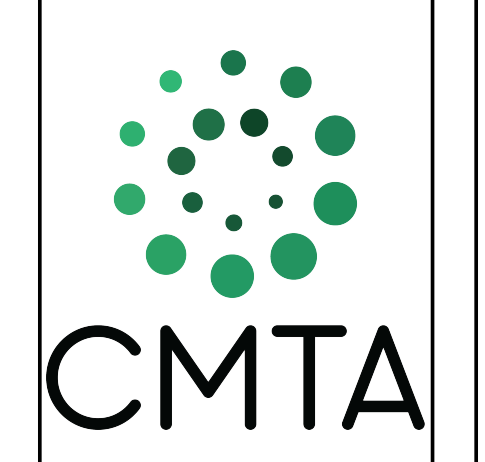
TAGGED NOTES



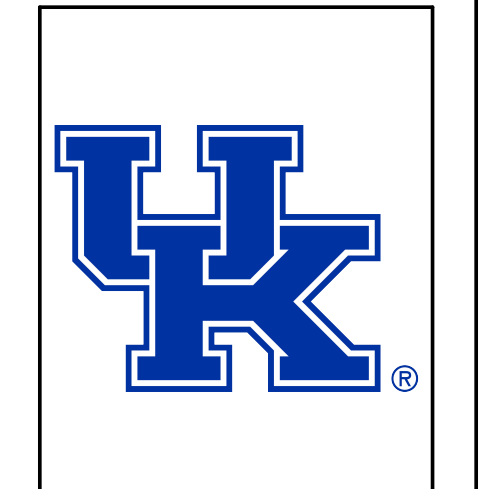
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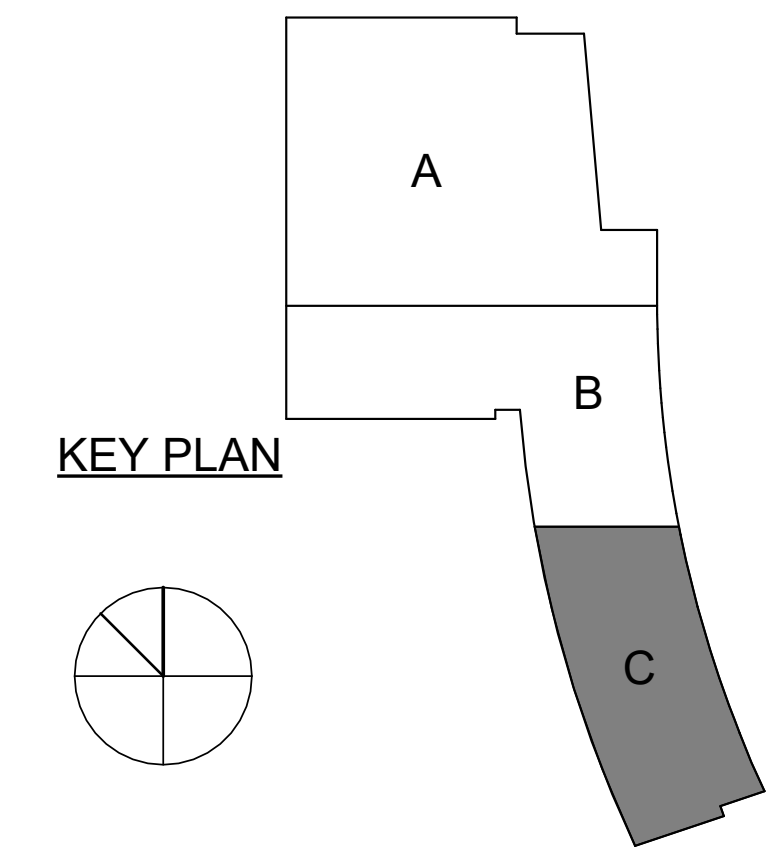


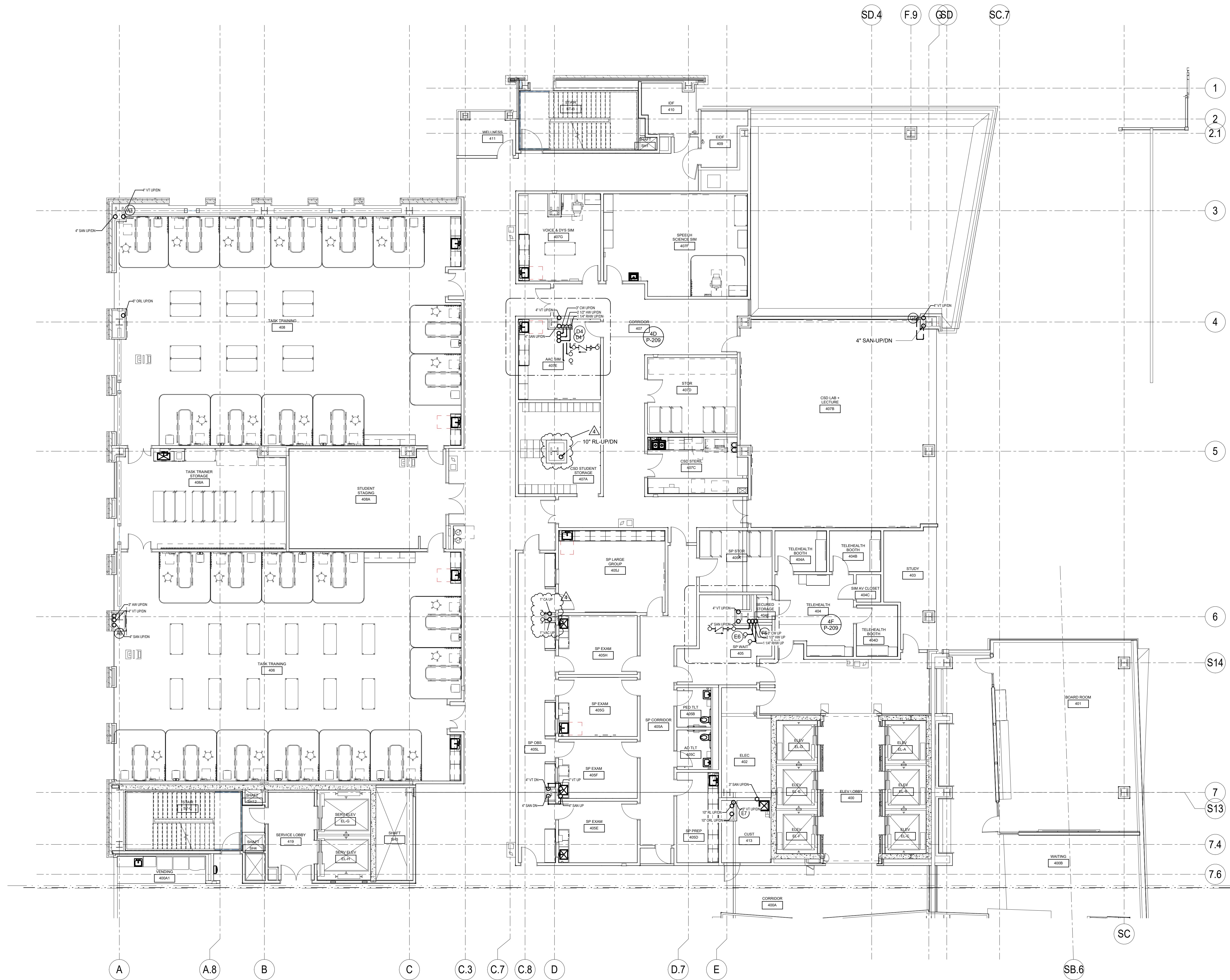
**BP-04F**  
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**EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY  
1149 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



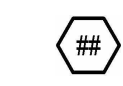
PLUMBING		
PROJECT	202170/KKSM21	
DATE	08.09.2024	
REVISIONS		
No.	Description	Date

**PLUMBING**  
**-THIRD FLOOR**  
**- AREA C**  
**P-103C**  
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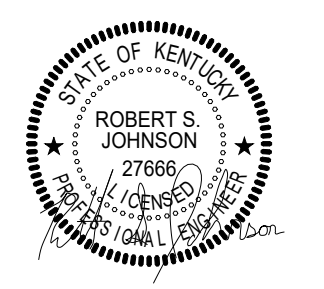




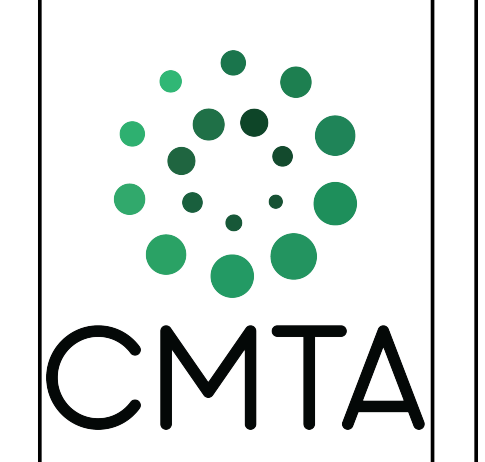
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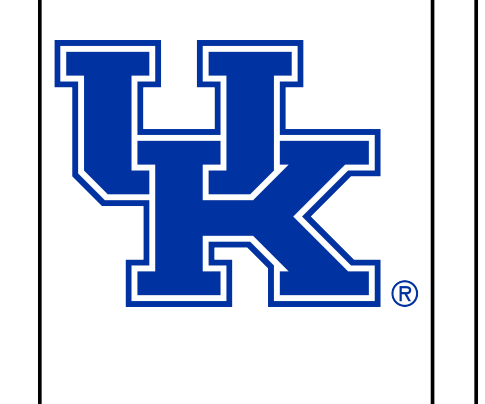
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PROJECT 202170/KXSM21  
DATE 08.09.2024

REVISIONS		
No.	Description	Date
4	ADDENDUM #2	10/1/24

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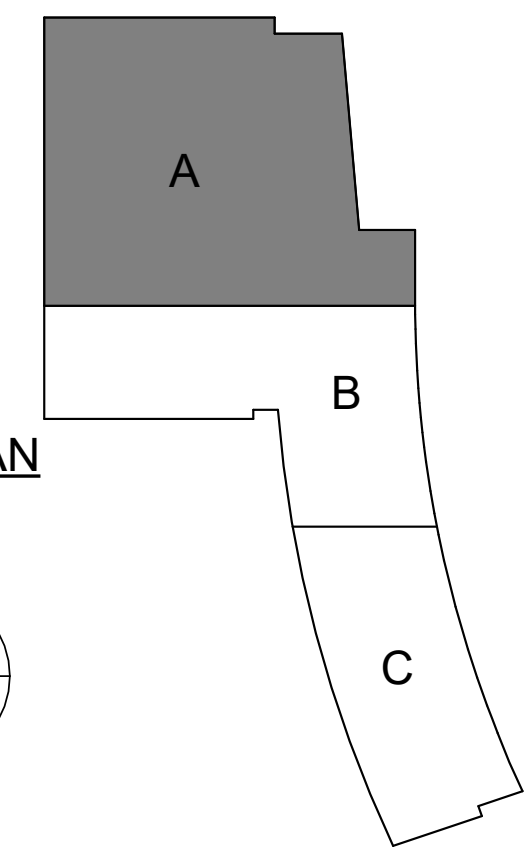
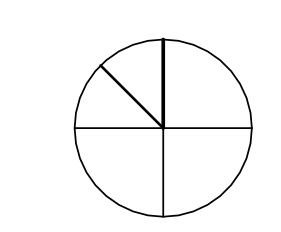
**PLUMBING - FOURTH FLOOR - AREA A**

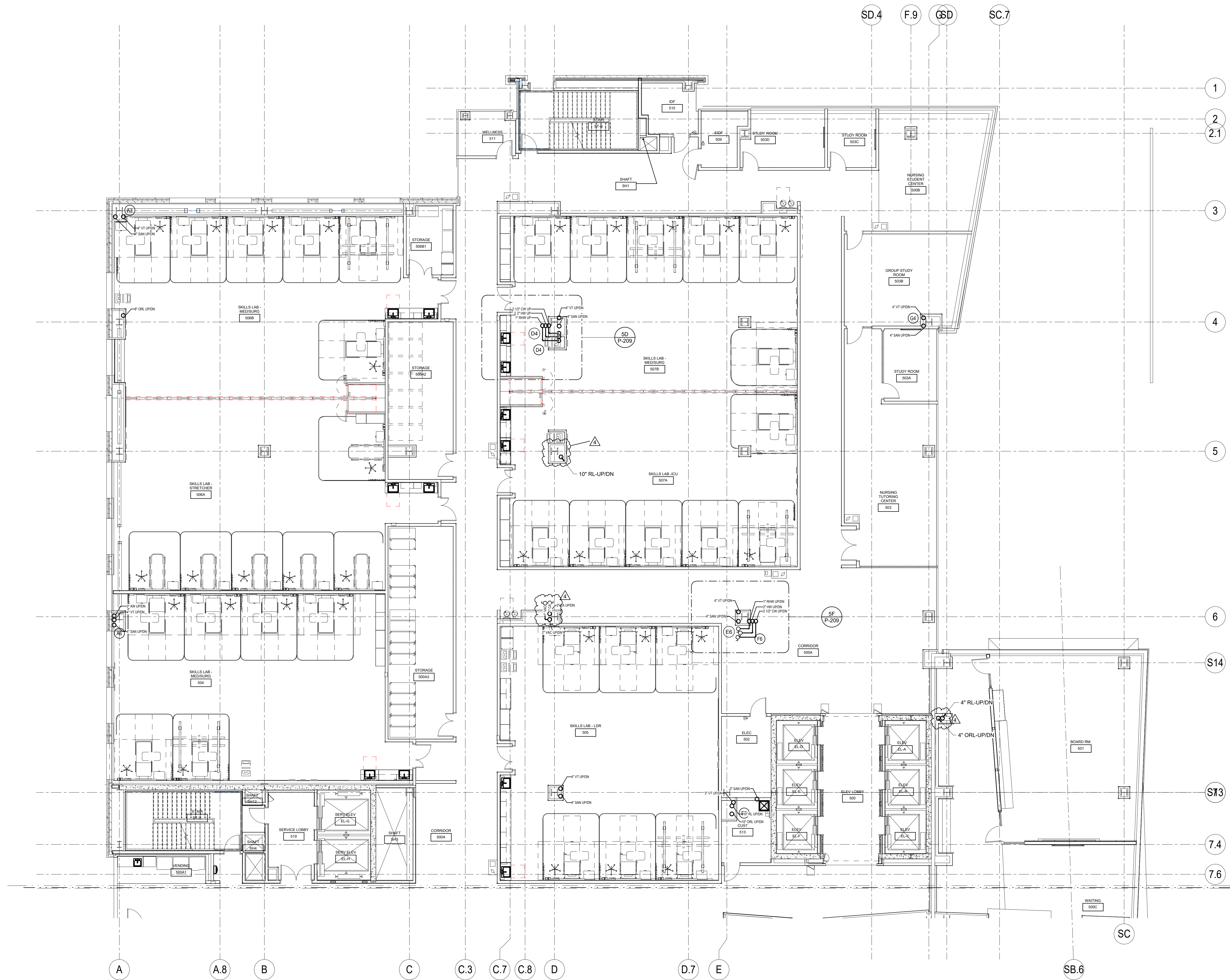
**P-104A**

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**1 PLUMBING - FOURTH FLOOR - AREA A**  
1/8" = 1'-0"

KEY PLAN





**1 PLUMBING - FIFTH FLOOR - AREA A**  
1/8" = 1'-0"

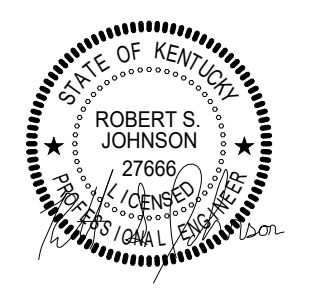
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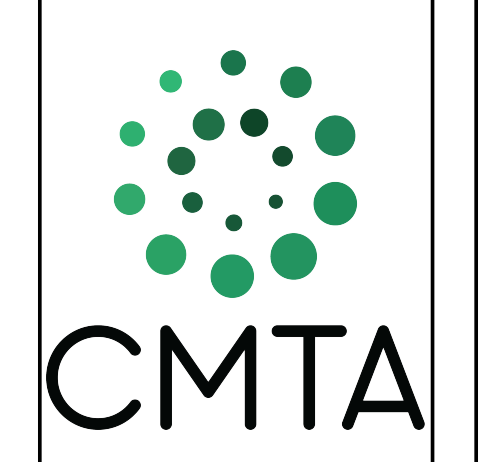
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- 2
- 2.1
- 3
- 4
- 5
- 6
- S14
- S73
- 7.4
- 7.6



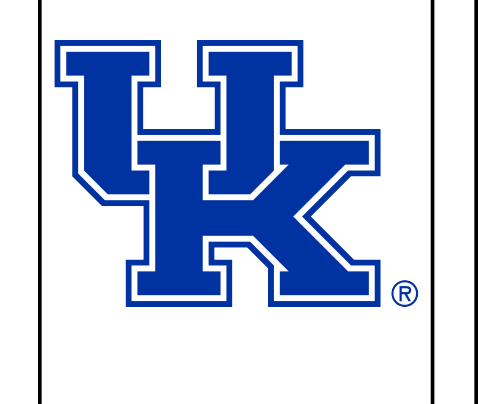
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**PLUMBING**

PROJECT 202170/KXSM21  
DATE 08.09.2024

REVISIONS		
No.	Description	Date
4	ADDENDUM #2	10/1/24

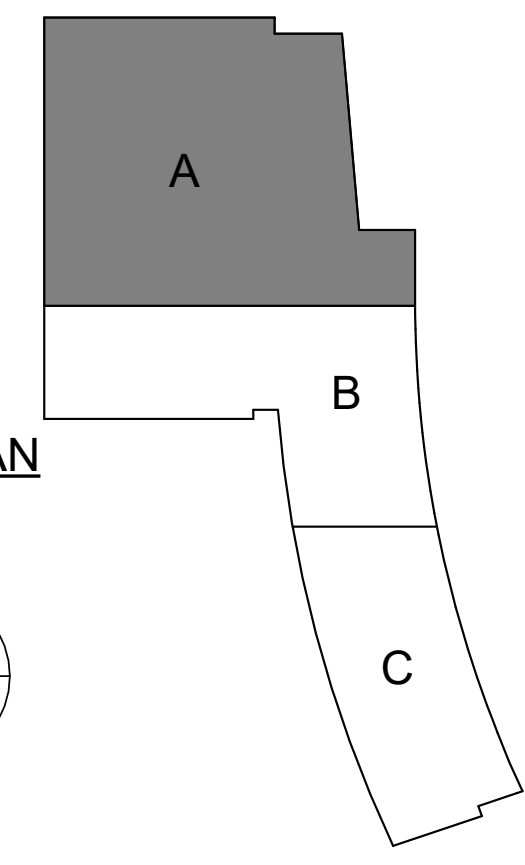
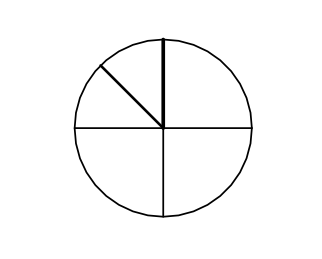
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**PLUMBING - FIFTH FLOOR - AREA A**

**P-105A**

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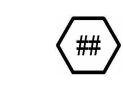
KEY PLAN



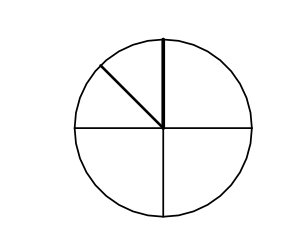


1 PLUMBING - SIXTH FLOOR - AREA A  
1/8" = 1'-0"

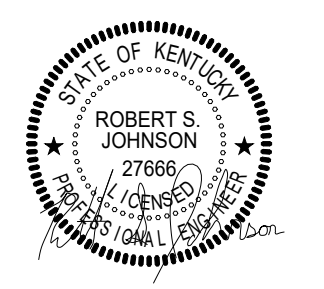
TAGGED NOTES



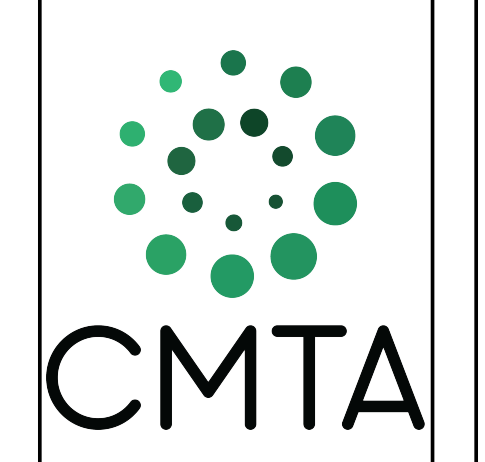
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PLUMBING

PROJECT 202170/KXSM21  
DATE 08.09.2024

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4	ADDENDUM #2	10/1/24

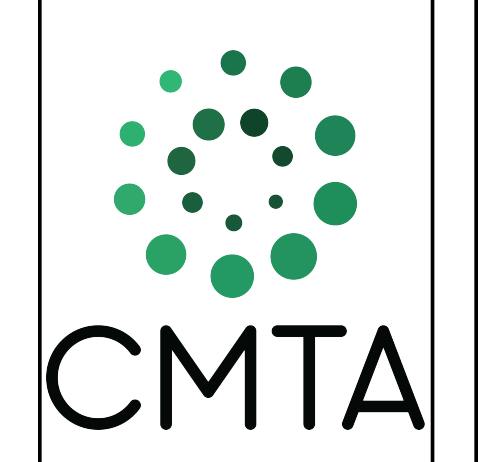
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PLUMBING - SIXTH FLOOR - AREA A

P-106A

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**PLUMBING**

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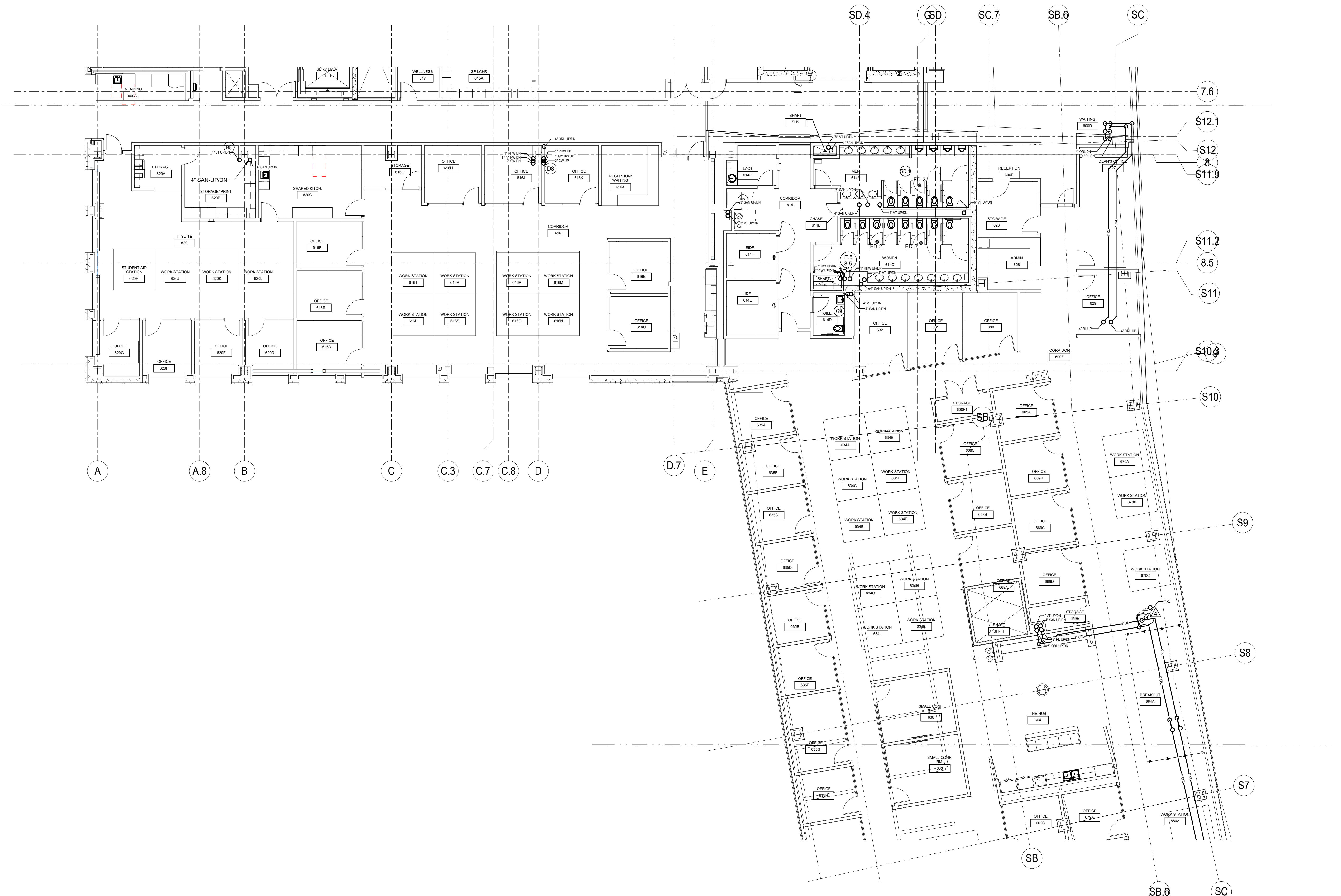
REVISIONS		
No.	Description	Date
4	ADDENDUM #2	10/1/24

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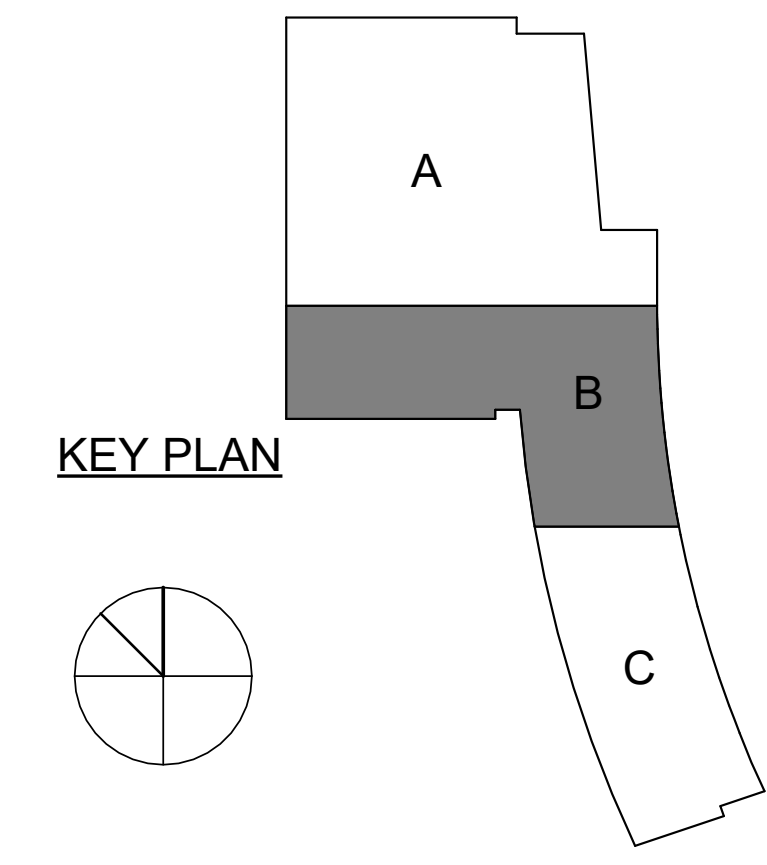
**PLUMBING - SIXTH FLOOR - AREA B**

**P-106B**

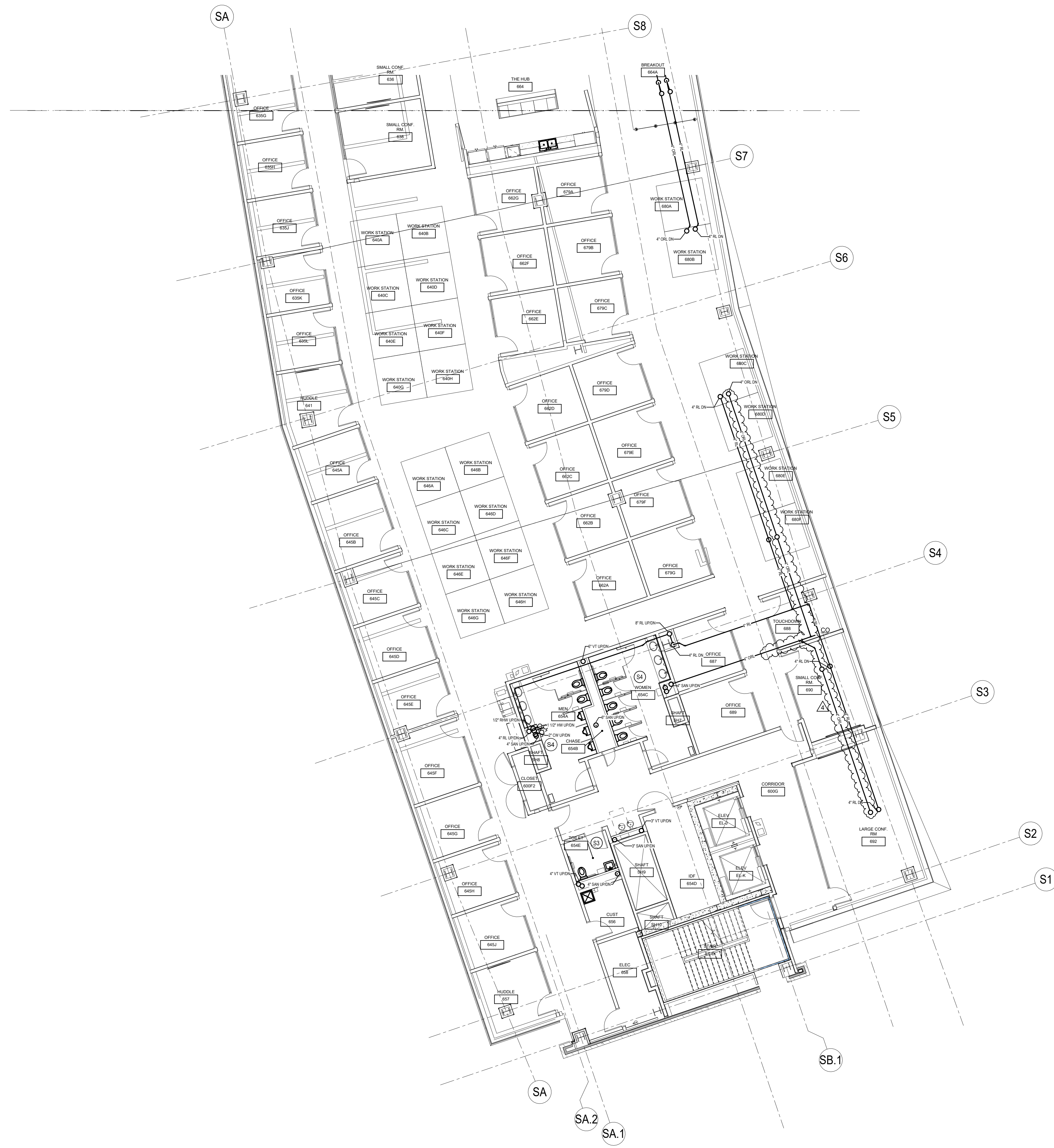
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**1 PLUMBING - SIXTH FLOOR - AREA B**  
1/8" = 1'-0"

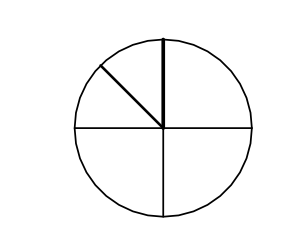


TAGGED NOTES

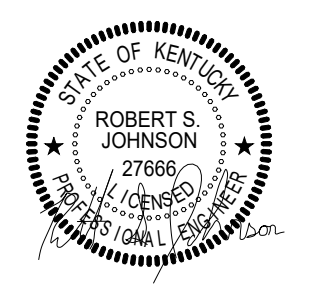


**1 PLUMBING - SIXTH FLOOR - AREA C**  
1/8" = 1'-0"

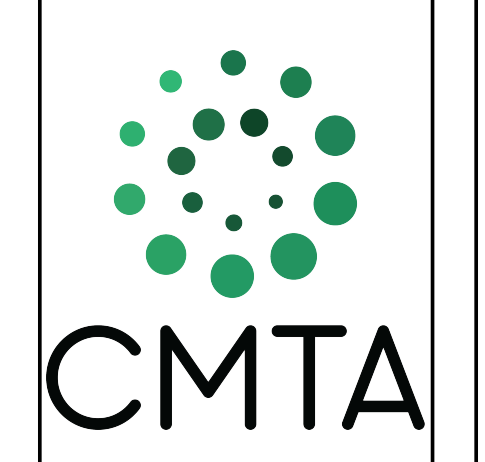
KEY PLAN



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PROJECT 202170/KKSM21  
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No.	Description	Date
4	ADDENDUM #2	10/1/24

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**PLUMBING - SIXTH FLOOR - AREA C**

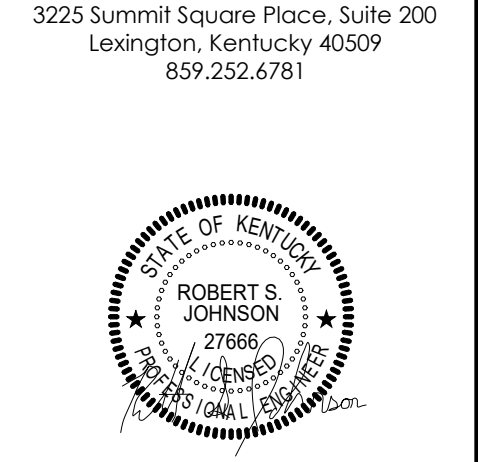
**P-106C**

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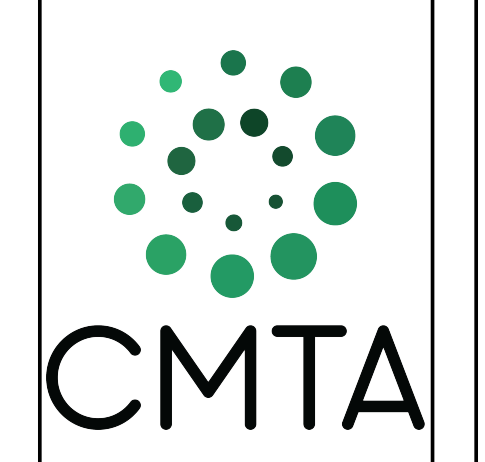


**1 PLUMBING - SEVENTH FLOOR - AREA A**  
1/8" = 1'-0"

**TAGGED NOTES**  
P13 PROVIDE EXPANSION JOINT IN PIPE



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**PLUMBING**

PROJECT: 202170/KKSM21  
DATE: 08.09.2024

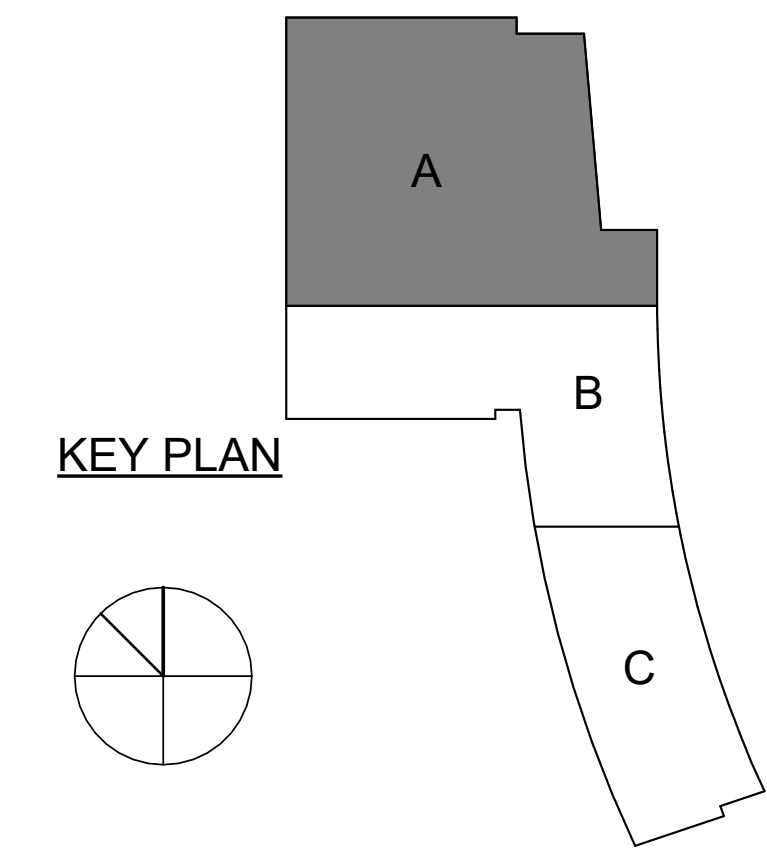
REVISIONS		
No.	Description	Date
4	ADDENDUM #2	10/1/24

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**PLUMBING - SEVENTH FLOOR - AREA A**

**P-107A**

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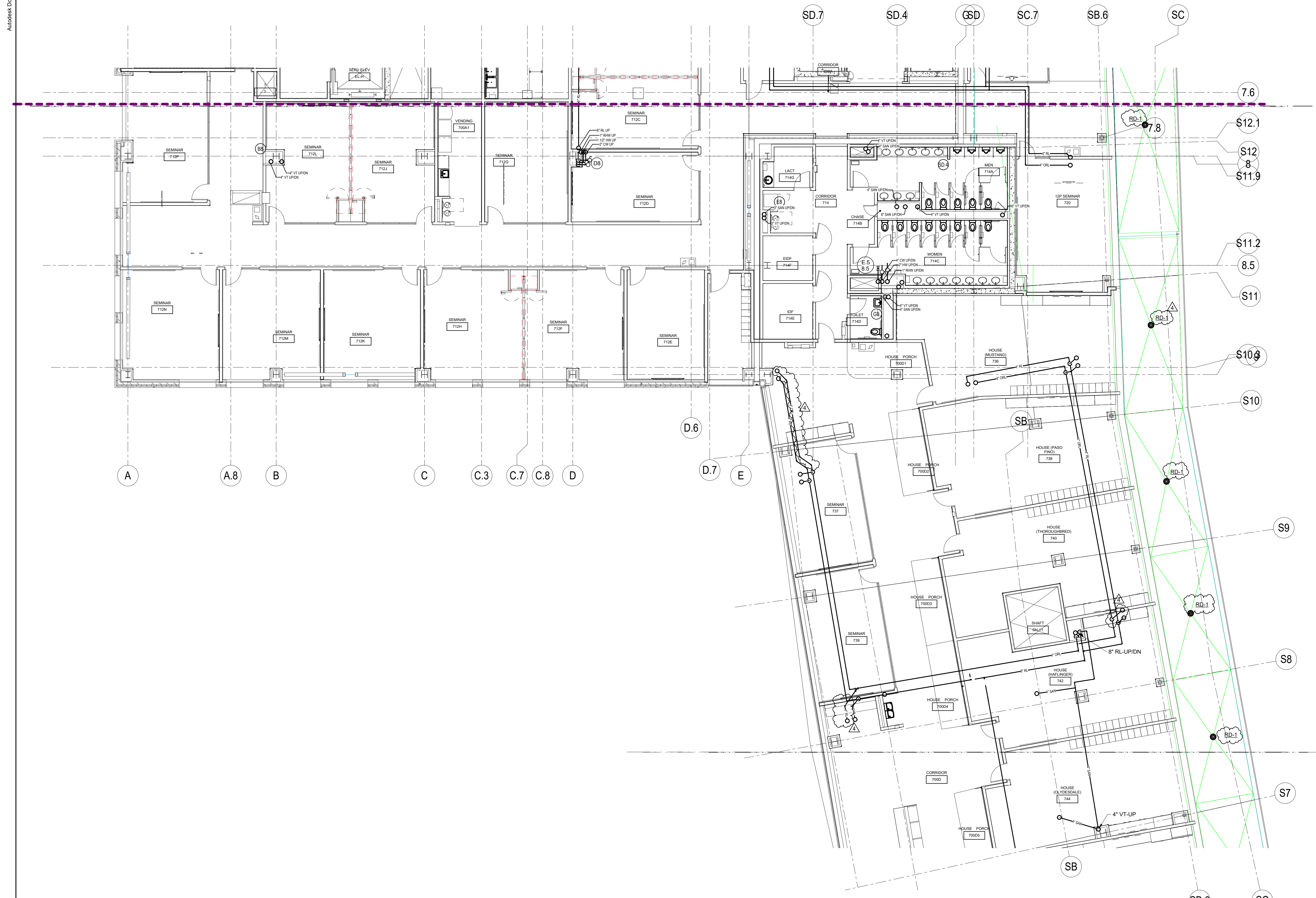


SD.7 SD.4 F.9 G SD SC.7

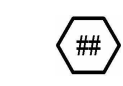
1  
2  
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3  
3.2  
4  
5  
5.2  
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S14  
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S13  
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7.6

A A.8 B C C.3 C.7 C.8 D D.6 D.7 E SB.6 SC

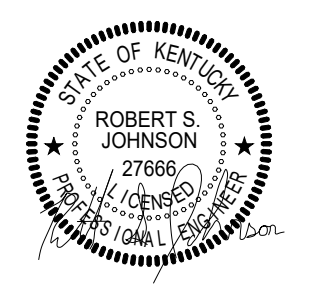




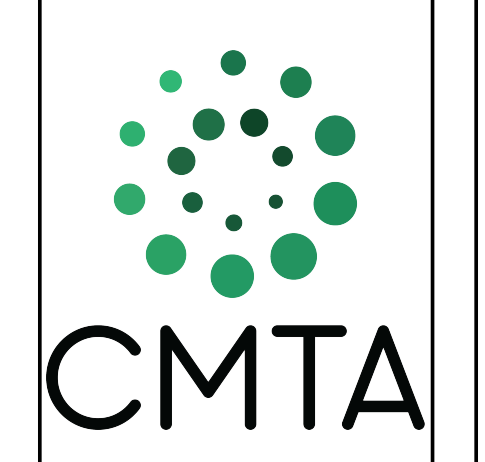
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**PLUMBING**

PROJECT 202170/KKSM21  
DATE 08.09.2024

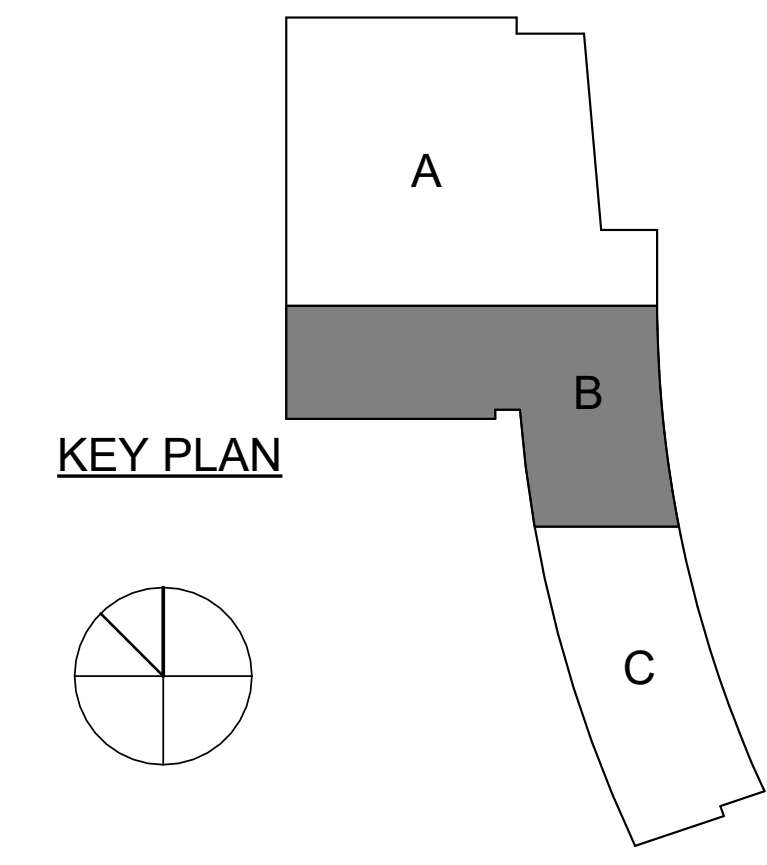
REVISIONS		
No.	Description	Date
4	ADDENDUM #2	10/1/24

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**PLUMBING - SEVENTH FLOOR - AREA B**

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**1 PLUMBING - SEVENTH FLOOR - AREA B**  
1/8" = 1'-0"

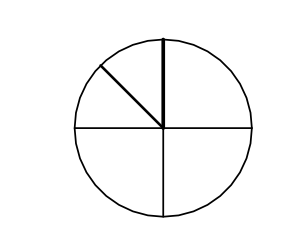


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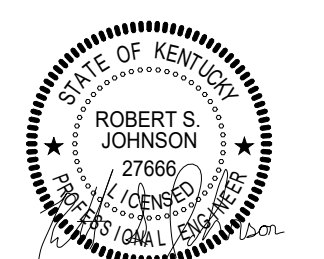


**1 PLUMBING - SEVENTH FLOOR - AREA C**  
1/8" = 1'-0"

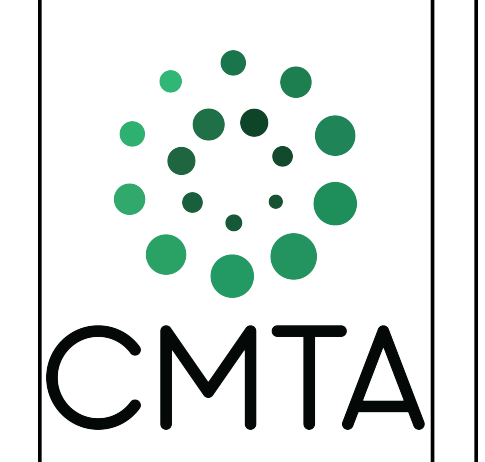
KEY PLAN



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**PLUMBING**

PROJECT 202170/KKSM21  
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REVISIONS		
No.	Description	Date
4	ADDENDUM #2	10/1/24

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**PLUMBING - SEVENTH FLOOR - AREA C**

**P-107C**

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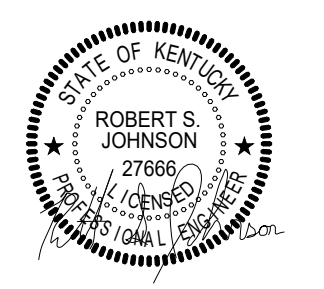


**1 PLUMBING - EIGHTH FLOOR - AREA A**  
1/8" = 1'-0"

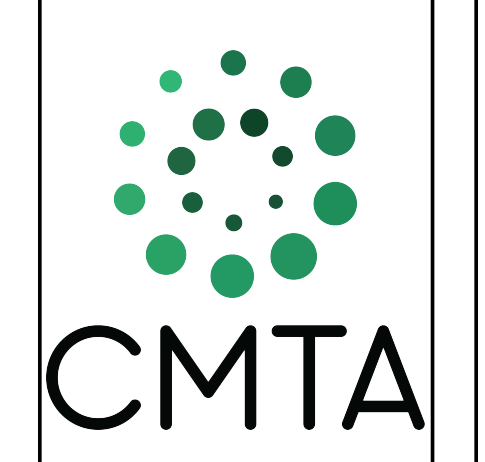
**TAGGED NOTES**  
P13 PROVIDE EXPANSION JOINT IN PIPE



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**PLUMBING**

PROJECT 202170/KKSM21  
DATE 08.09.2024

REVISIONS		
No.	Description	Date
4	ADDENDUM #2	10/1/24

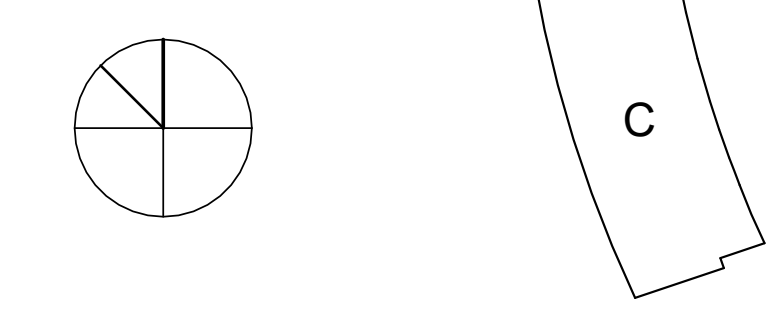
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**PLUMBING - EIGHTH FLOOR - AREA A**

**P-108A**

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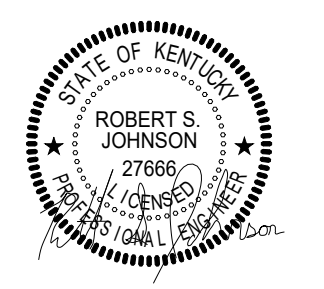
KEY PLAN





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UNIVERSITY OF KENTUCKY  
1149 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**PLUMBING**

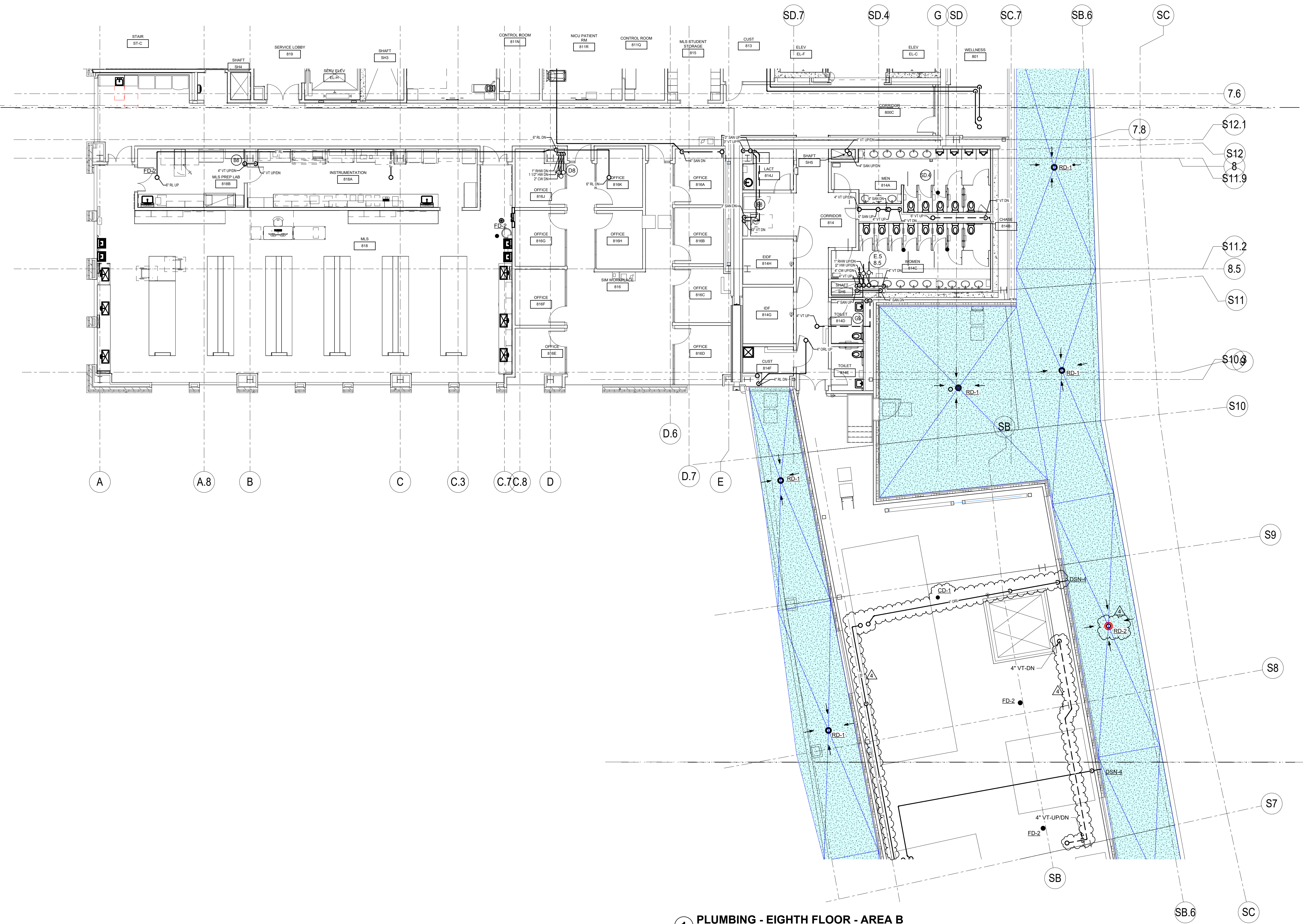
PROJECT 202170/KKSM21  
DATE 08.09.2024

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No.	Description	Date
4	ADDENDUM #2	10/1/24

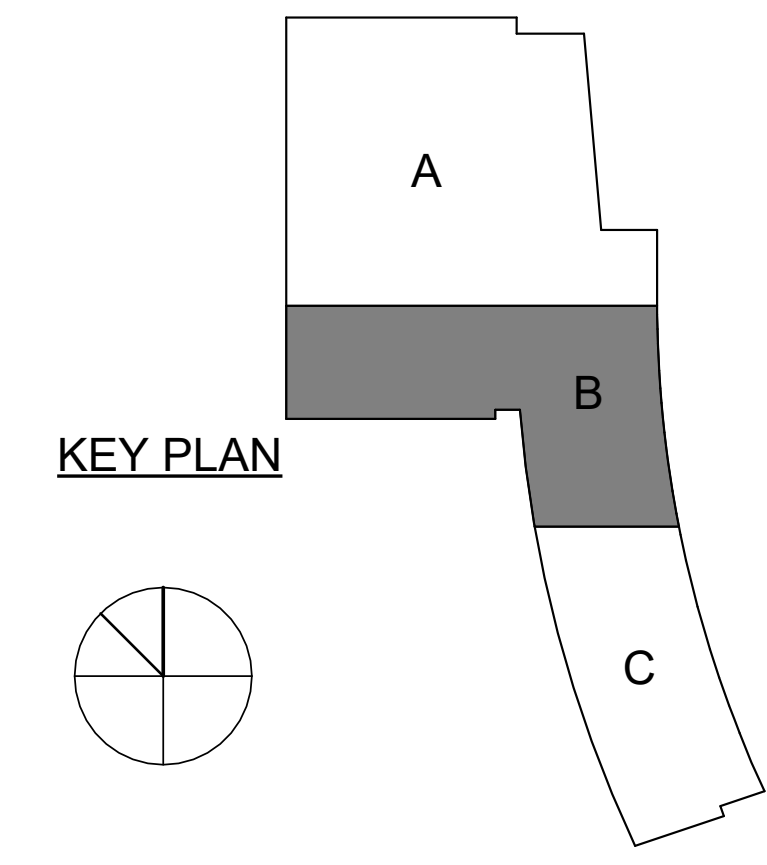
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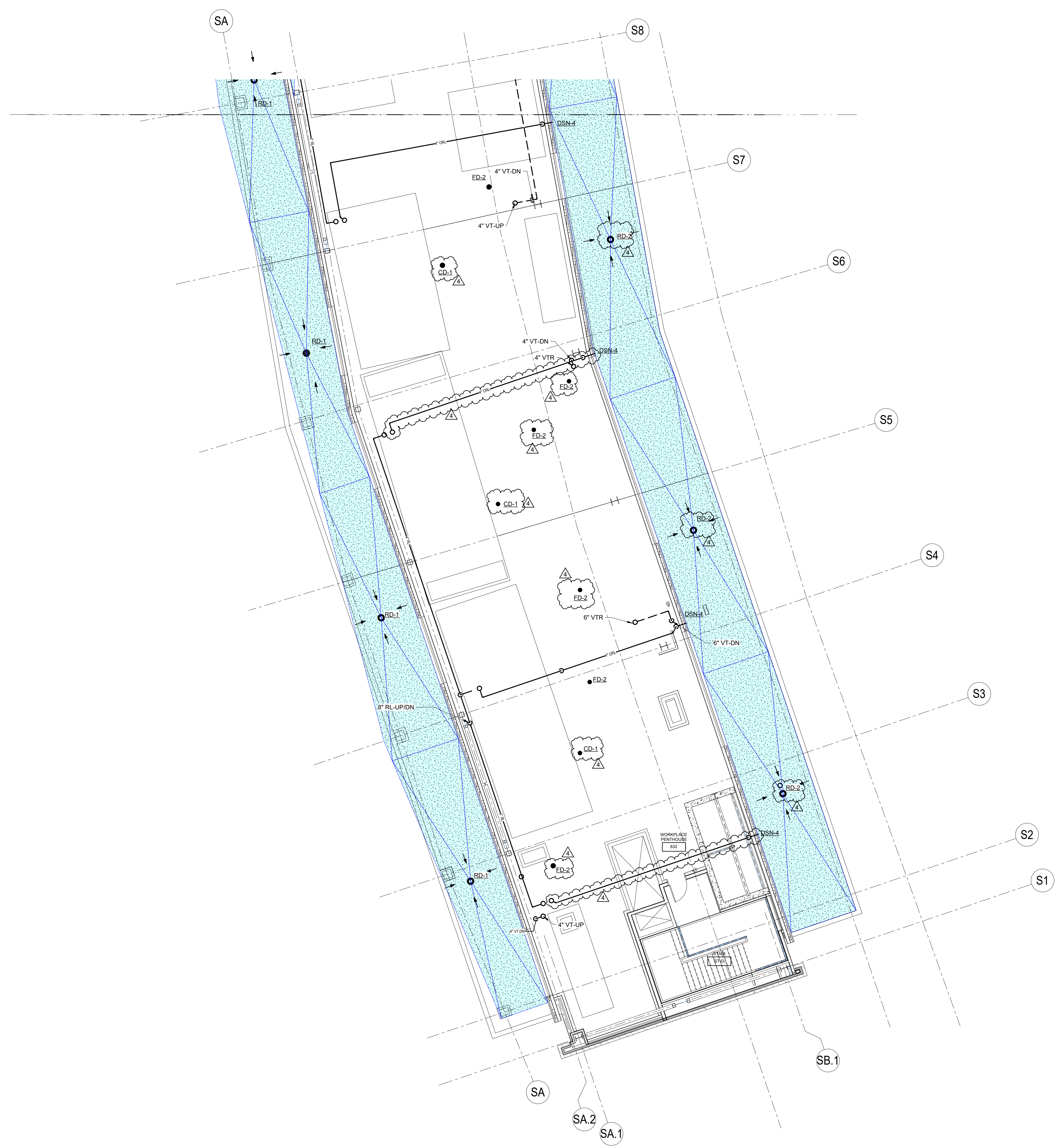
**PLUMBING - EIGHTH FLOOR - AREA B**

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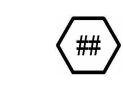
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1/8" = 1'-0"



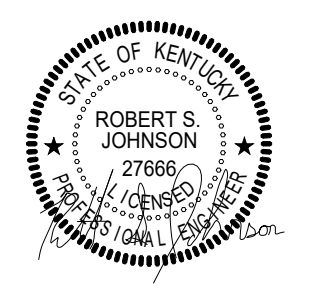


**1 PLUMBING - EIGHTH FLOOR - AREA C**  
1/8" = 1'-0"

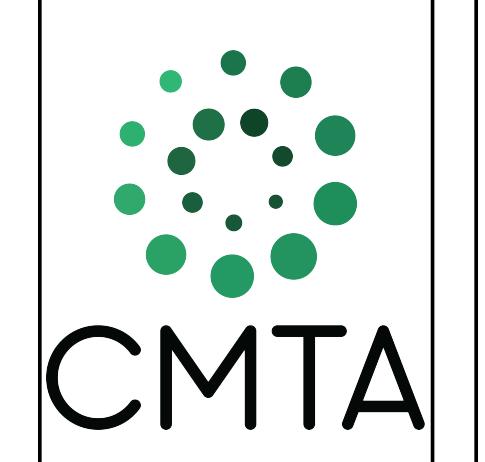
TAGGED NOTES



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**PLUMBING**

PROJECT 202170/KKSM21  
DATE 08.09.2024

REVISIONS		
No.	Description	Date
4	ADDENDUM #2	10/1/24

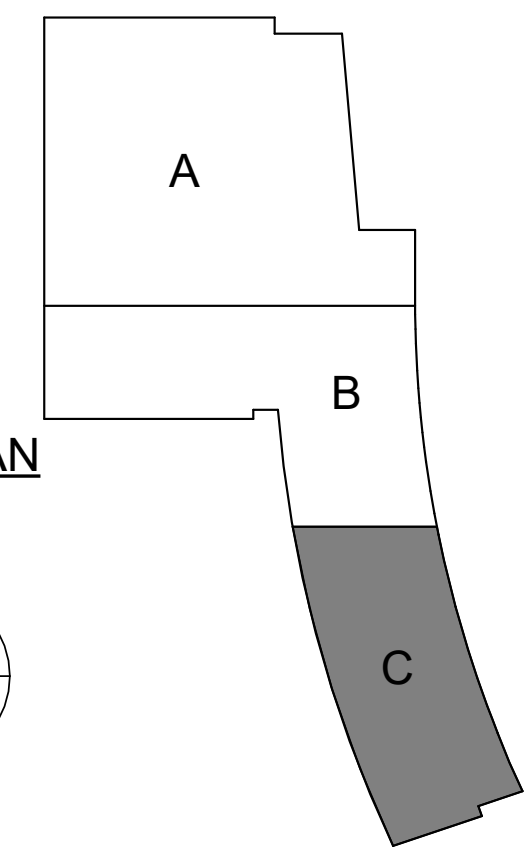
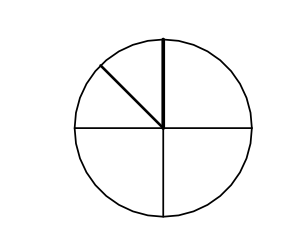
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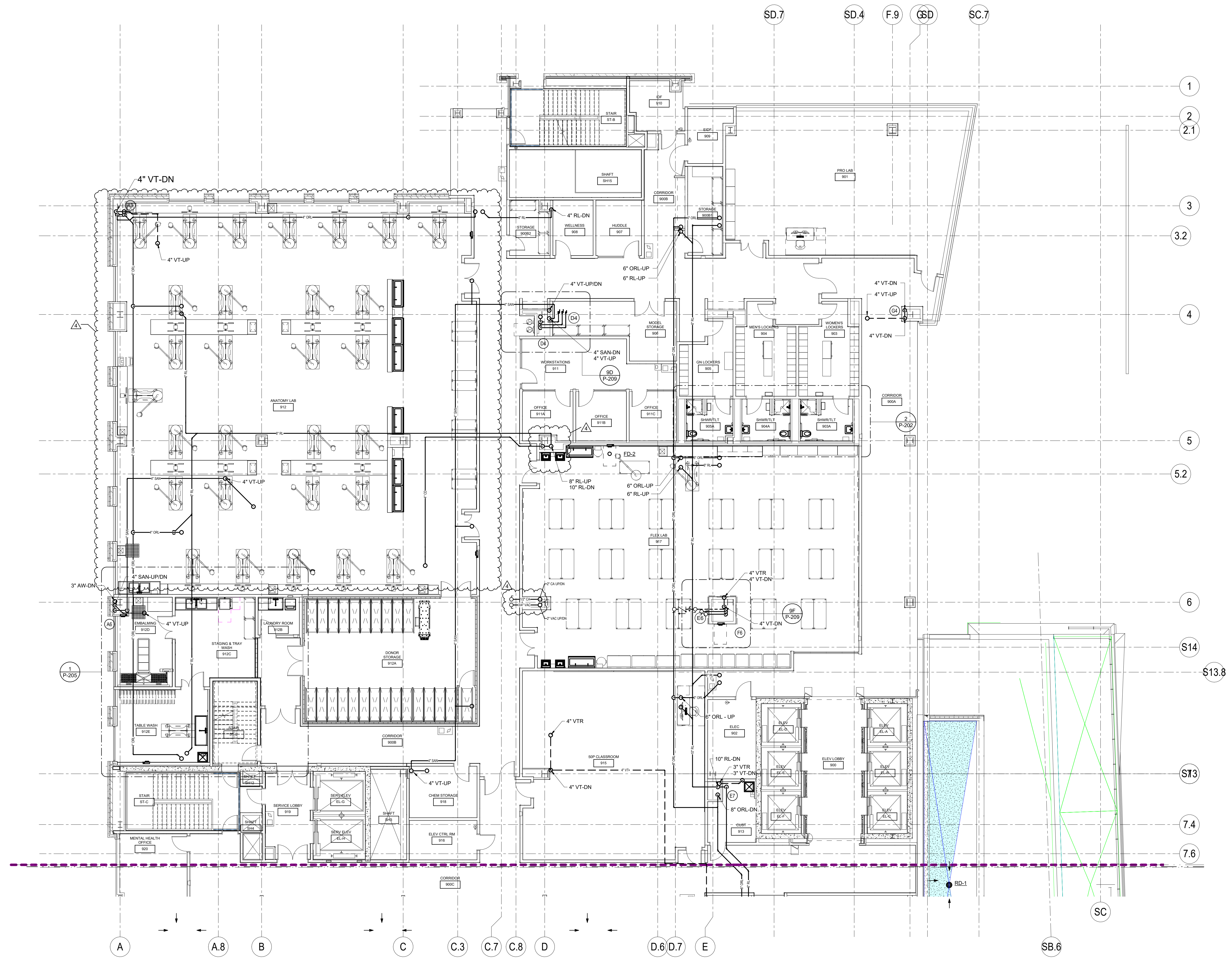
**PLUMBING - EIGHTH FLOOR - AREA C**

**P-108C**

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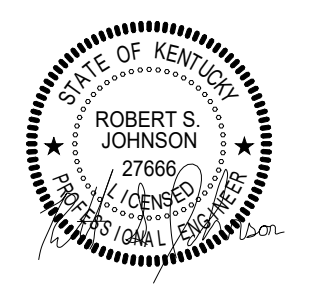


**1 PLUMBING - NINTH FLOOR - AREA A**  
1/8" = 1'-0"

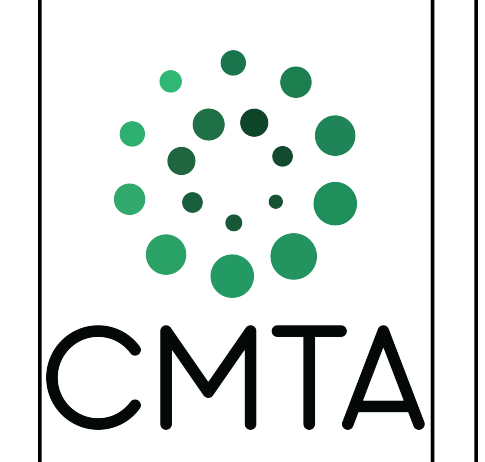
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PROJECT 202170/KXSM21  
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**REVISIONS**

No.	Description	Date
4	ADDENDUM #2	10/1/24

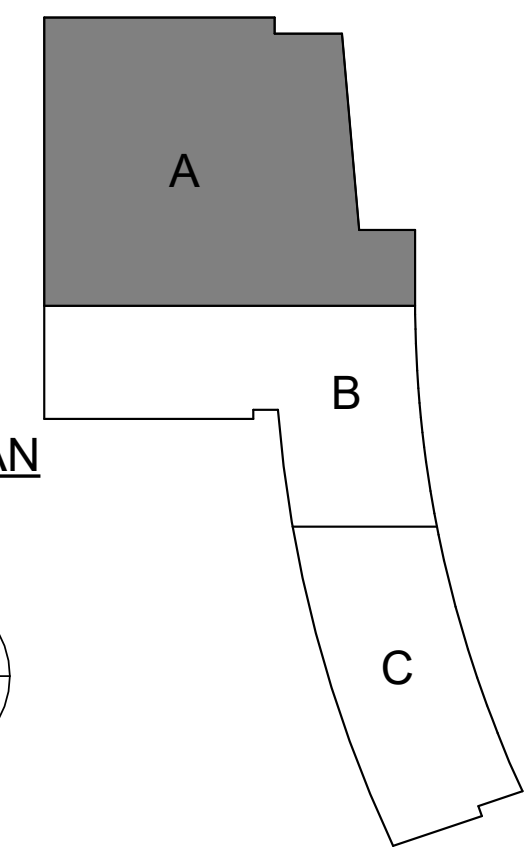
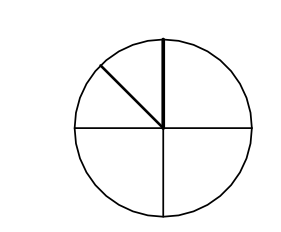
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**PLUMBING - NINTH FLOOR - AREA A**

**P-109A**

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KEY PLAN



SD.7 SD.4 F.9 GSD SC.7

1  
2  
2.1  
3  
3.2  
4  
5  
5.2  
6  
S14  
S13.8  
S73  
7.4  
7.6

A A.8 B C C.3 C.7 C.8 D D.6 D.7 E SB.6 SC

Autodesk Docs (2024) 10 - UK Health Education Building JRA HEB - Plumbing of

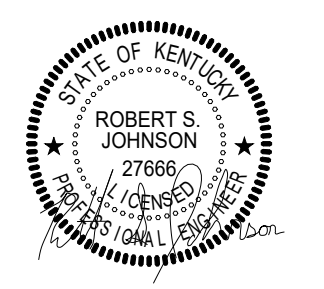
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**TAGGED NOTES**  
P13 PROVIDE EXPANSION JOINT IN PIPE

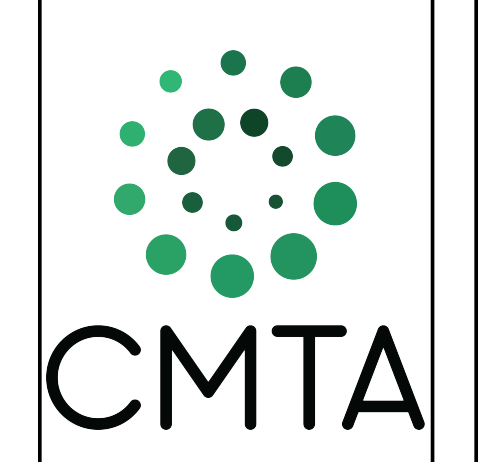


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**PLUMBING**

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DATE 08.09.2024

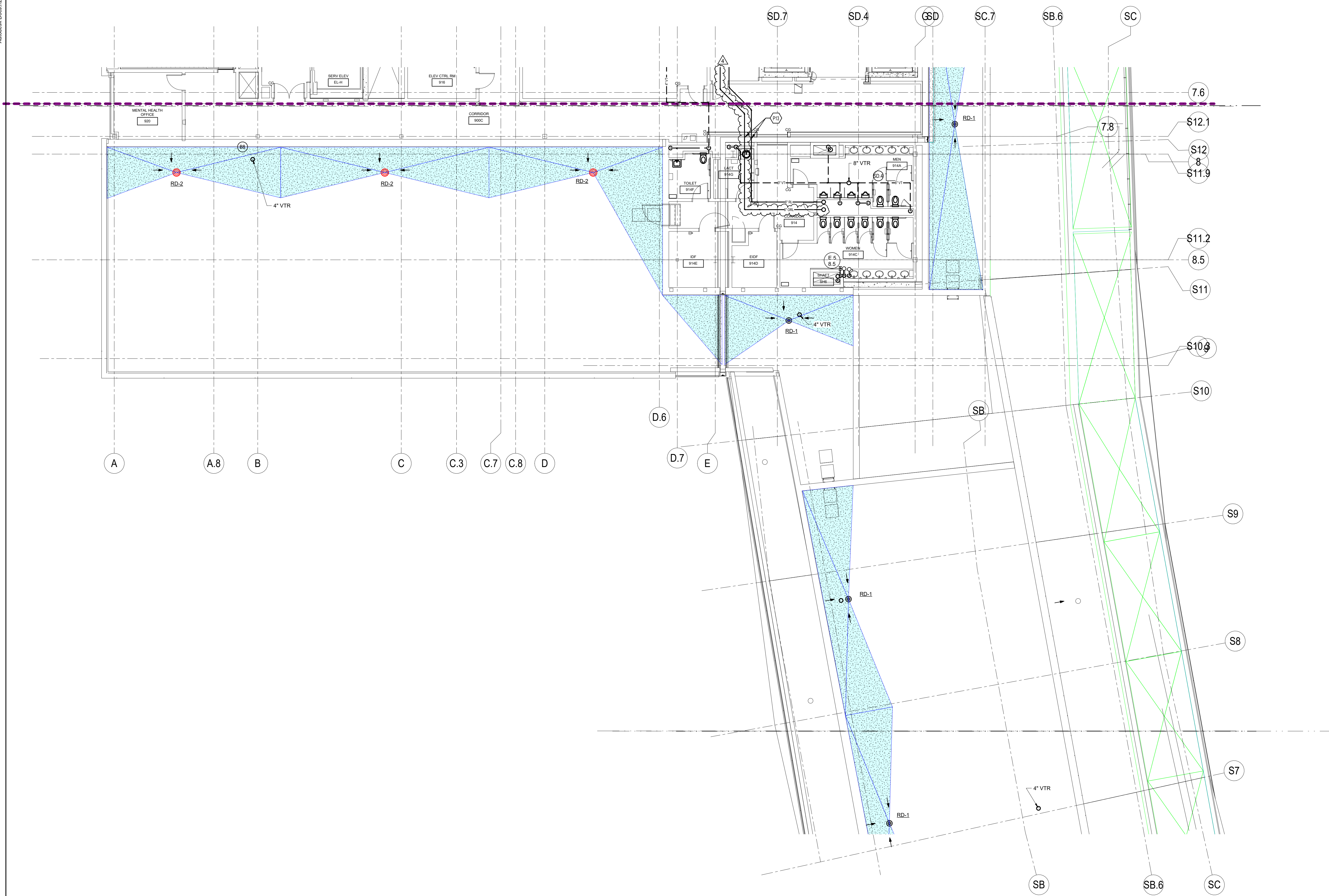
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No.	Description	Date
4	ADDENDUM #2	10/1/24

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**PLUMBING - NINTH FLOOR - AREA B**

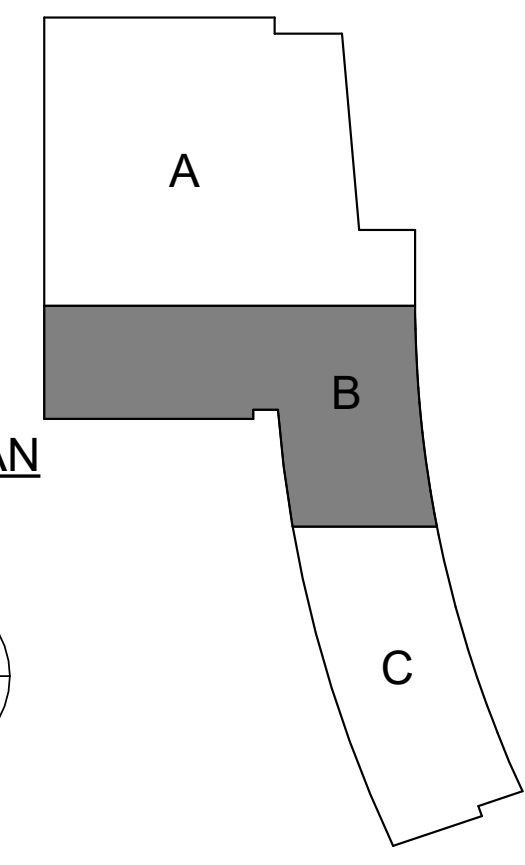
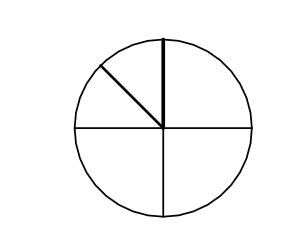
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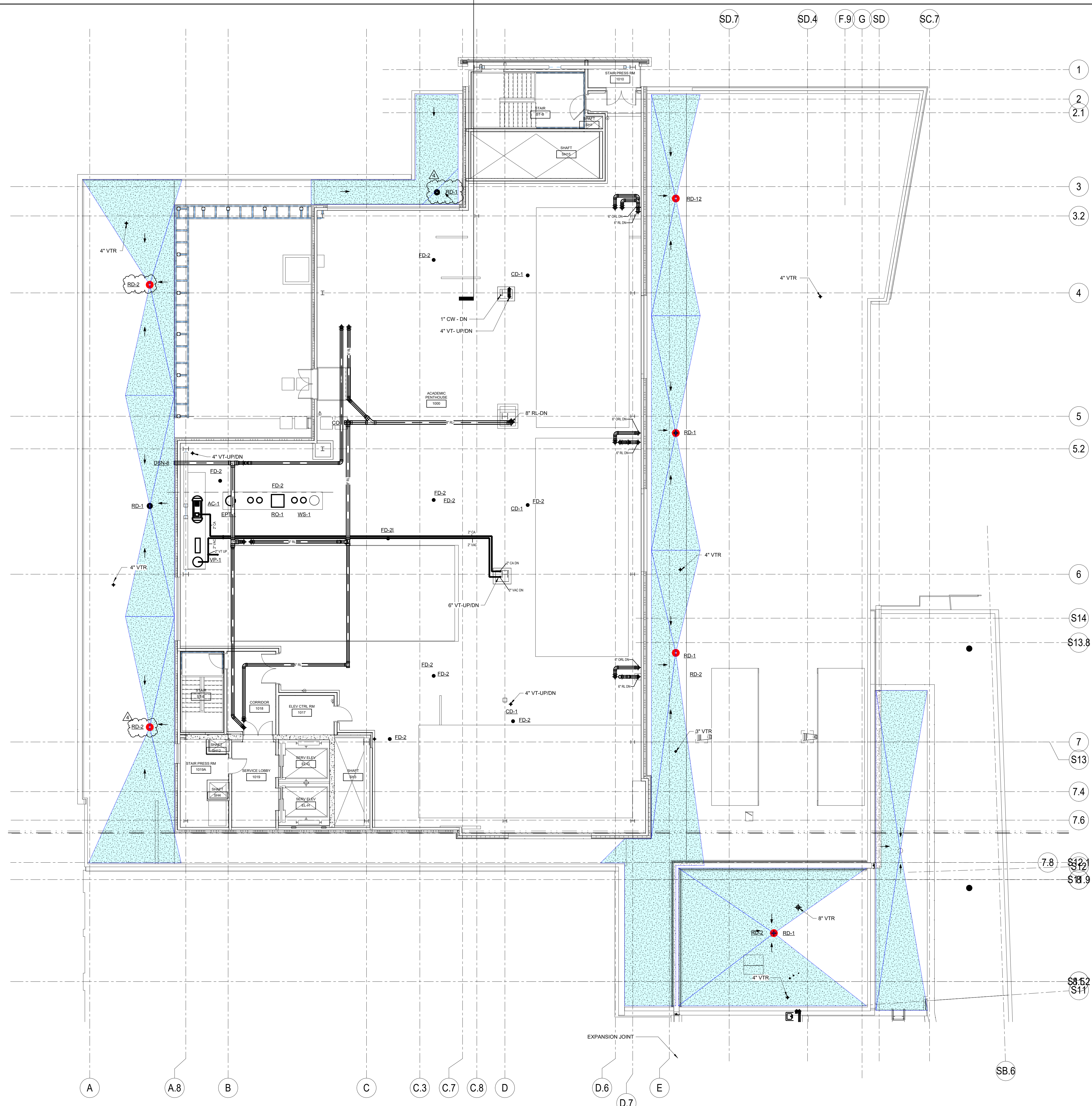
**1 PLUMBING - NINTH FLOOR - AREA B**  
1/8" = 1'-0"

KEY PLAN



Autodesk Docs (2024) - UK Health Education Building JRA - Plumbing of

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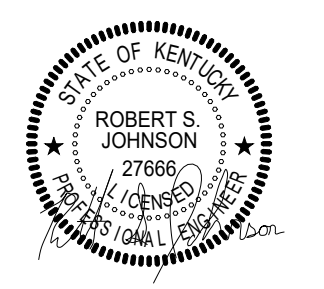


**1 PLUMBING - PENTHOUSE - AREA A**  
1/8" = 1'-0"

TAGGED NOTES



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**PLUMBING**

PROJECT 202170/KKSM21  
DATE 08.09.2024

REVISIONS		
No.	Description	Date
4	ADDENDUM #2	10/1/24

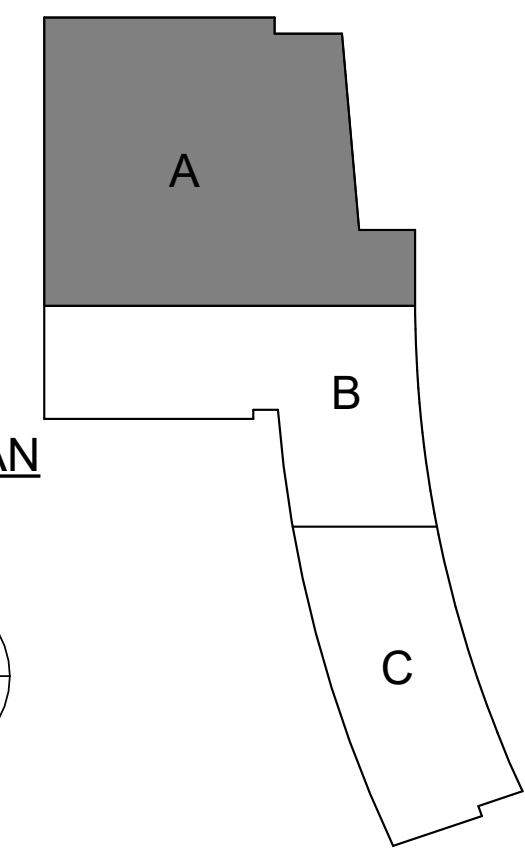
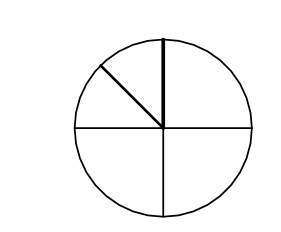
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**PLUMBING - PENTHOUSE - AREA A**

**P-110A**

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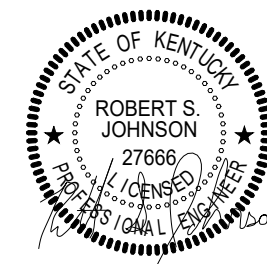
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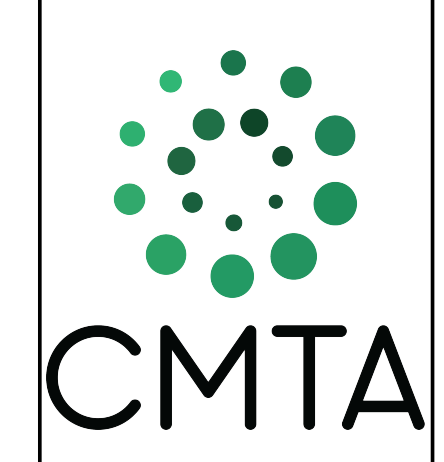




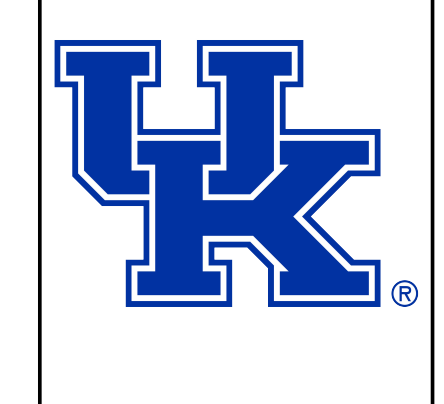
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**PLUMBING**

PROJECT: 202170/KKSM21  
DATE: 08.09.2024

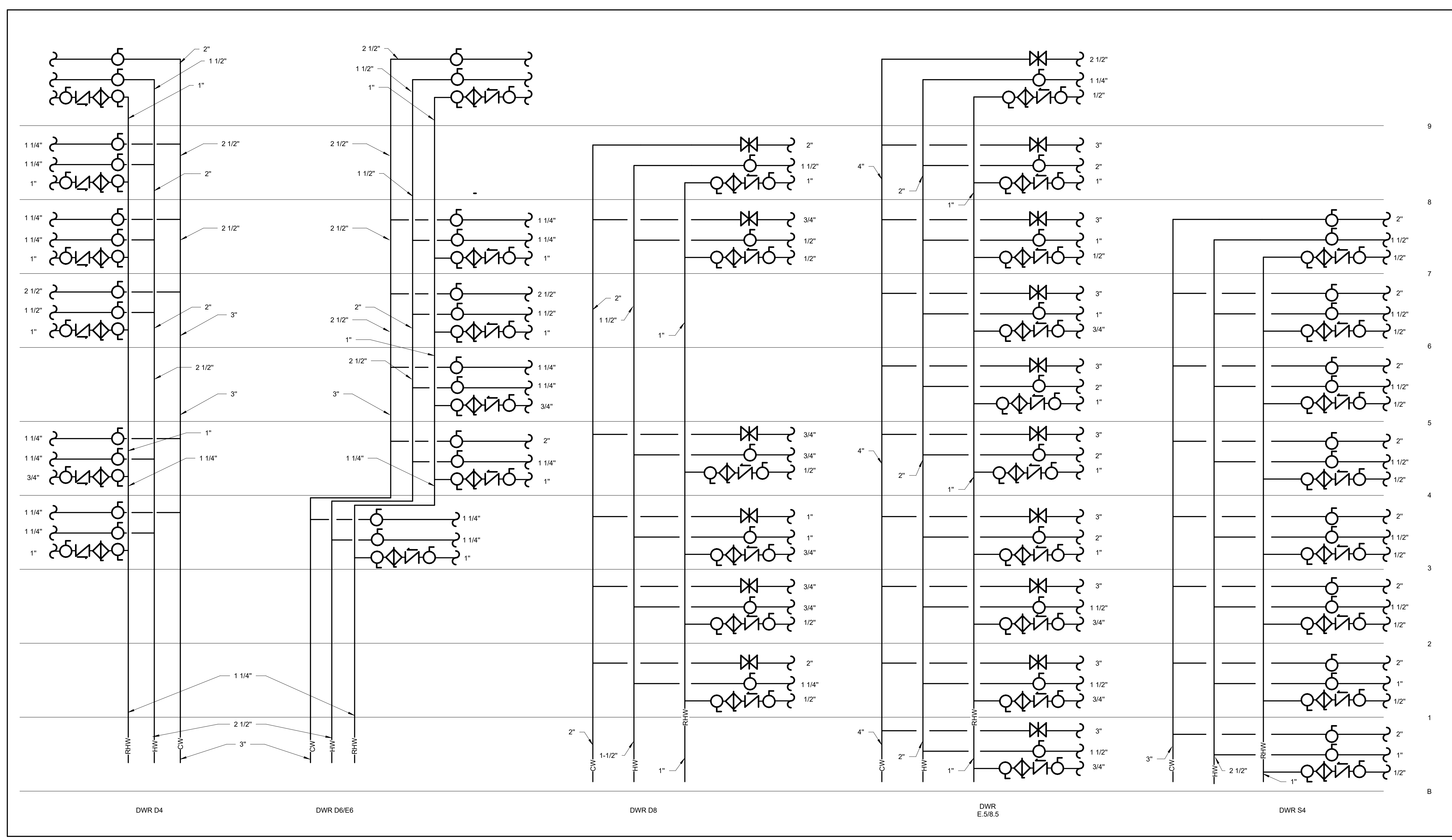
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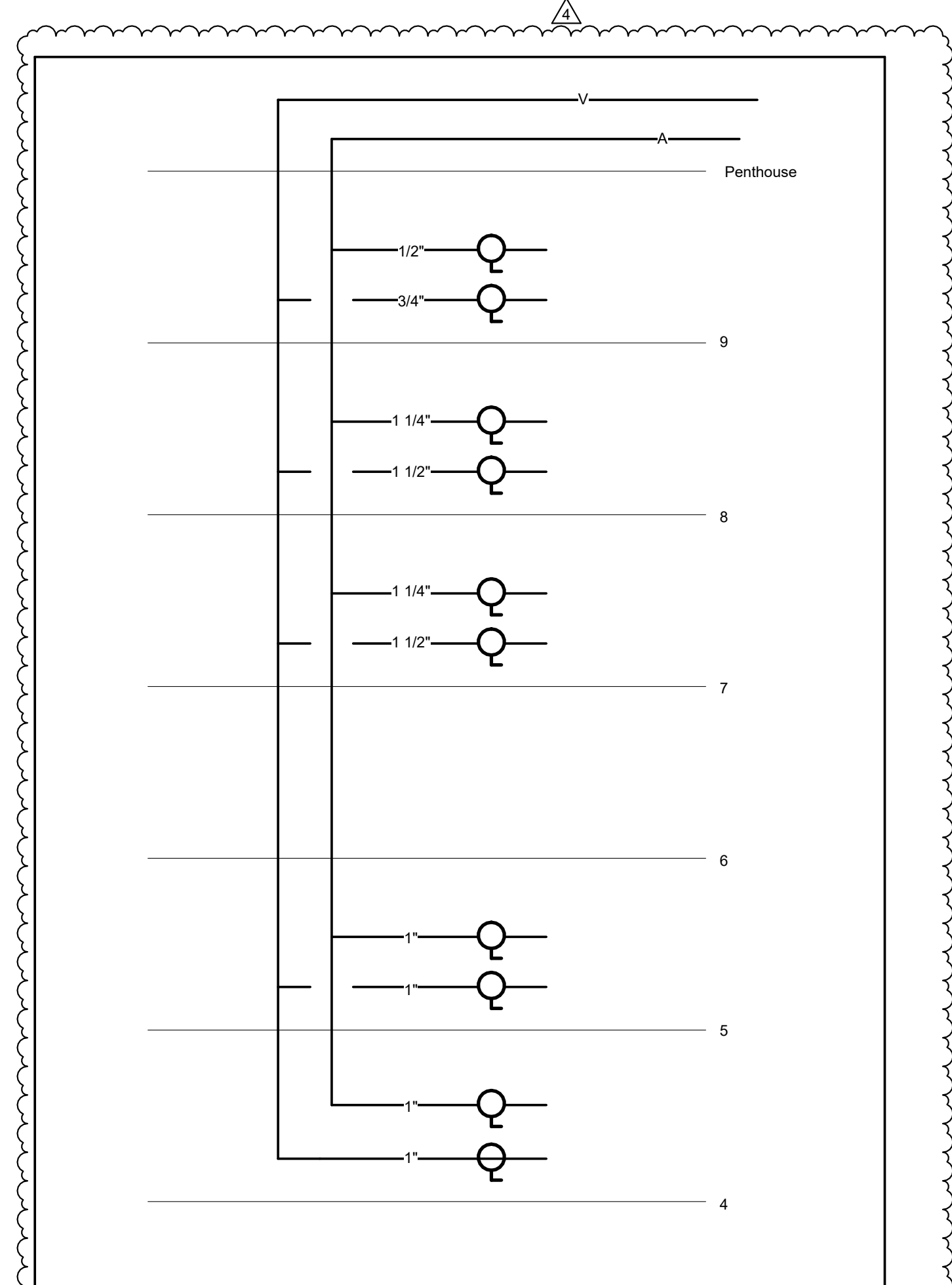
**PLUMBING SCHEMATIC DIAGRAMS**

**P-301**

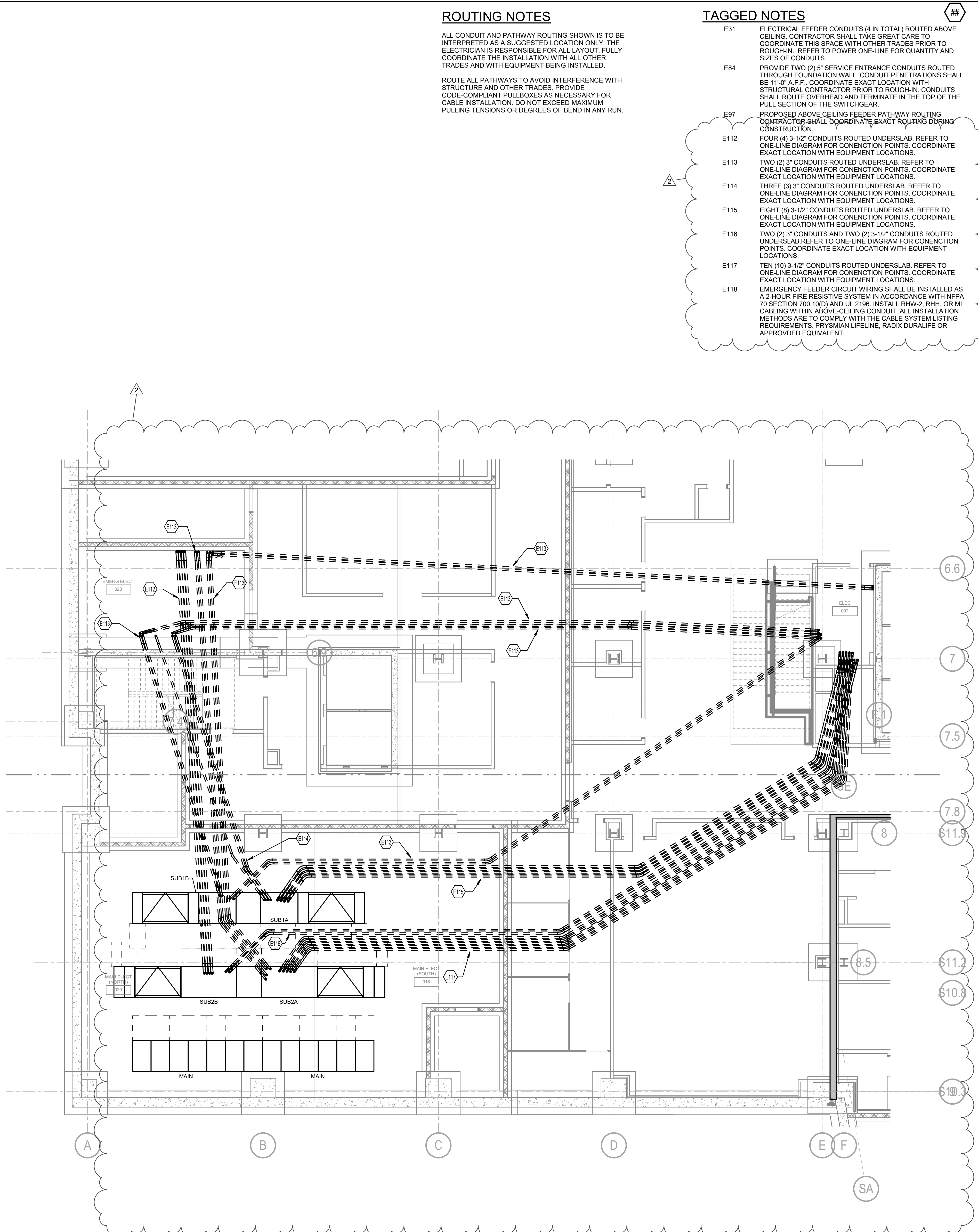
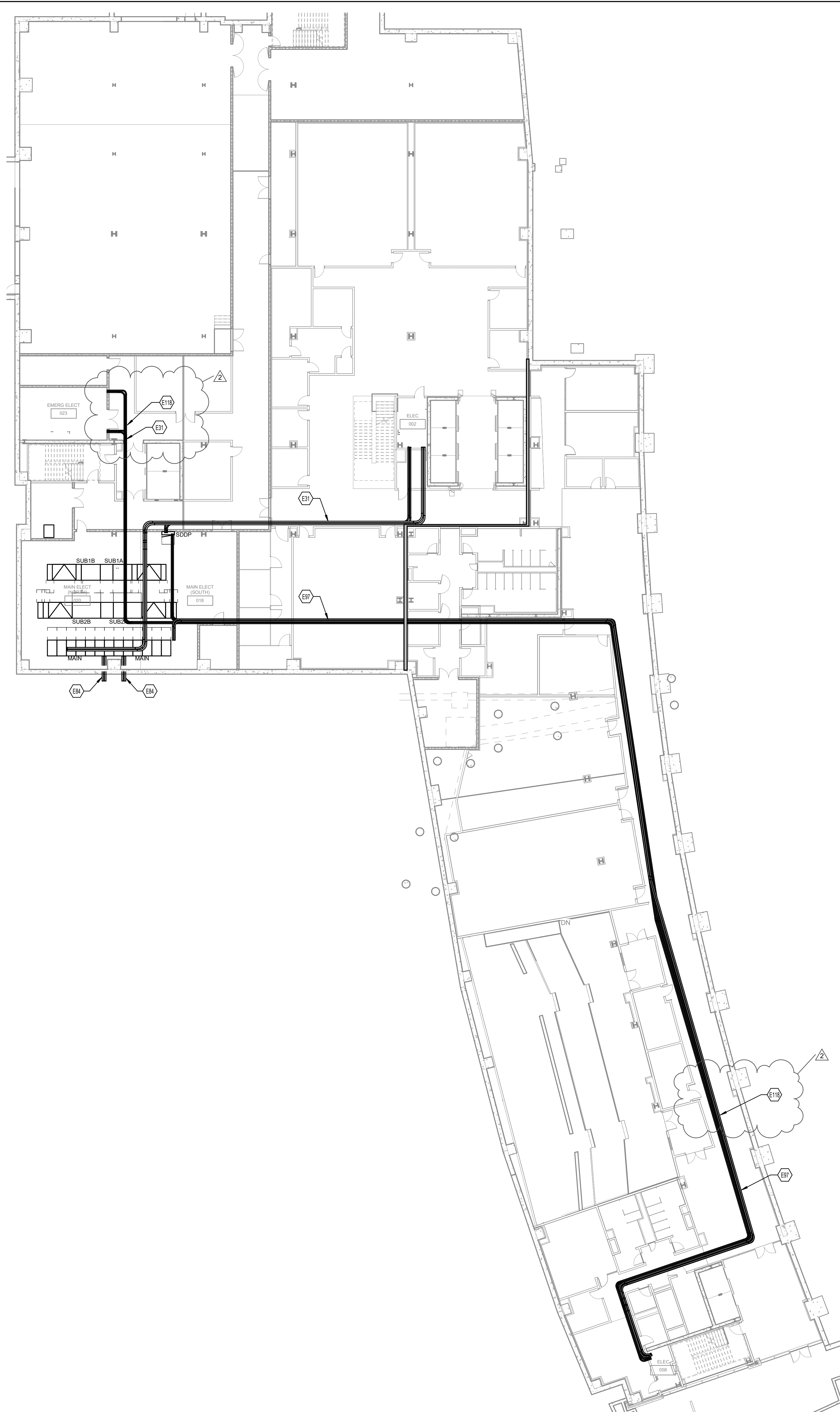
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**2 DOMESTIC WATER PIPING SCHEMATIC**  
SCALE: NONE



**1 COMPRESSED AIR AND VACUUM PIPING SCHEMATIC**  
SCALE: NONE



**ROUTING NOTES**

ALL CONDUIT AND PATHWAY ROUTING SHOWN IS TO BE INTERPRETED AS A SUGGESTED LOCATION ONLY. THE ELECTRICIAN IS RESPONSIBLE FOR ALL LAYOUT, FULLY COORDINATE THE INSTALLATION WITH ALL OTHER TRADES AND WITH EQUIPMENT BEING INSTALLED.

ROUTE ALL PATHWAYS TO AVOID INTERFERENCE WITH STRUCTURE AND OTHER TRADES. PROVIDE CODE-COMPLIANT PULLBOXES AS NECESSARY FOR CABLE INSTALLATION. DO NOT EXCEED MAXIMUM PULLING TENSIONS OR DEGREES OF BEND IN ANY RUN.

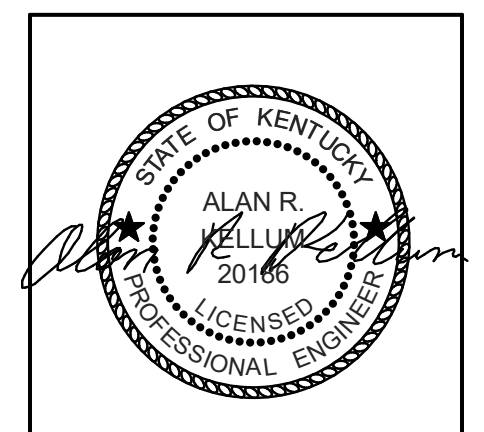
**TAGGED NOTES**

- E31 ELECTRICAL FEEDER CONDUITS (4 IN TOTAL) ROUTED ABOVE CEILING. CONTRACTOR SHALL TAKE GREAT CARE TO COORDINATE THIS SPACE WITH OTHER TRADES PRIOR TO ROUGH-IN. REFER TO POWER ONE-LINE FOR QUANTITY AND SIZES OF CONDUITS.
- E84 PROVIDE TWO (2) 3" SERVICE ENTRANCE CONDUITS ROUTED THROUGH FOUNDATION WALL. CONDUIT PENETRATIONS SHALL BE 11'-0" A.F.F. COORDINATE EXACT LOCATION WITH STRUCTURAL CONTRACTOR PRIOR TO ROUGH-IN. CONDUITS SHALL ROUTE OVERHEAD AND TERMINATE IN THE TOP OF THE PULL SECTION OF THE SWITCHGEAR.
- E87 PROPOSED ABOVE CEILING FEEDER PATHWAY ROUTING. CONTRACTOR SHALL COORDINATE EXACT ROUTING DURING CONSTRUCTION.
- E112 FOUR (4) 3-1/2" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E113 TWO (2) 3" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E114 THREE (3) 3" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E115 EIGHT (8) 3-1/2" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E116 TWO (2) 3" CONDUITS AND TWO (2) 3-1/2" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E117 TEN (10) 3-1/2" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E118 EMERGENCY FEEDER CIRCUIT WIRING SHALL BE INSTALLED AS A 2-HOUR FIRE RESISTIVE SYSTEM IN ACCORDANCE WITH NFPA 70 SECTION 700.10(D) AND UL 2196. INSTALL RHW-2, RHW, OR MI CABLES WITHIN ABOVE-CEILING CONDUIT. ALL INSTALLATION METHODS ARE TO COMPLY WITH THE CABLE SYSTEM LISTING REQUIREMENTS. FIBERMAN LIFELINE, RADIX DURALIFE OR APPROVED EQUIVALENT.

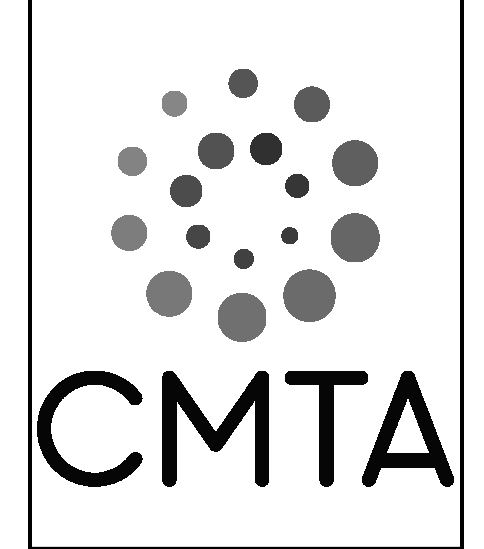
**1** BASEMENT - ELEC BP4F - PATHWAYS  
SCALE: 1/16" = 1'-0"  
0 4 8 16 32 48 64



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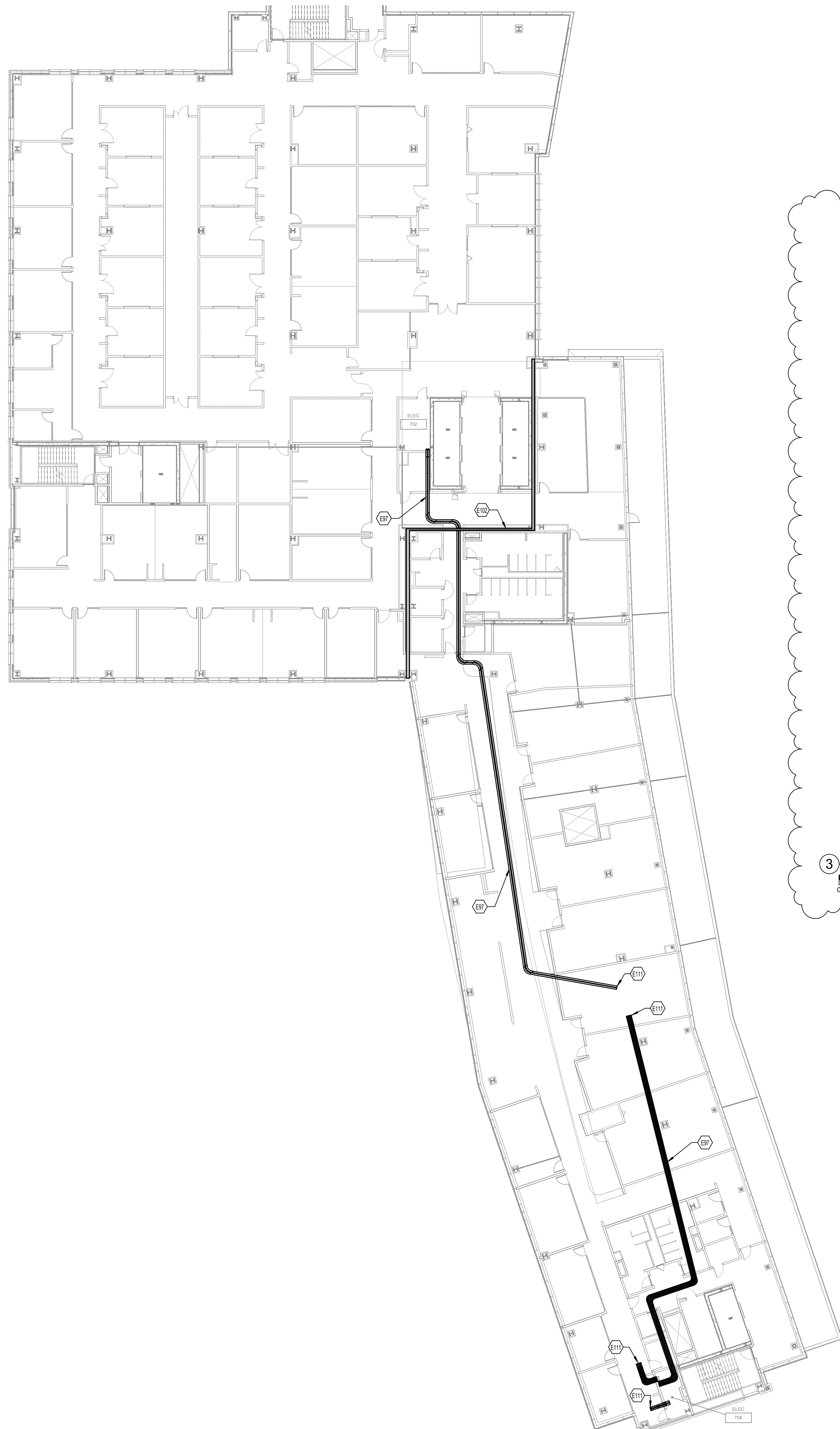


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PROJECT	202170/XKSM21	
DATE	09/11/2024	
REVISIONS		
No.	Description	Date
2	BP-04F FINAL ADDENDUM	09/24/24

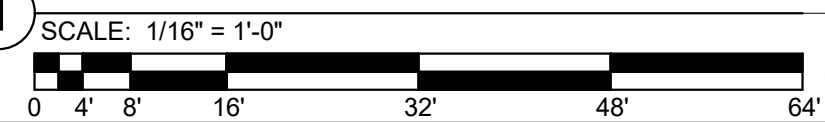
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**ELECTRICAL  
FLOOR PLANS  
- PATHWAYS -  
BP4**

**E-200F**  
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1 SEVENTH FLOOR - ELEC BP4F - PATHWAYS



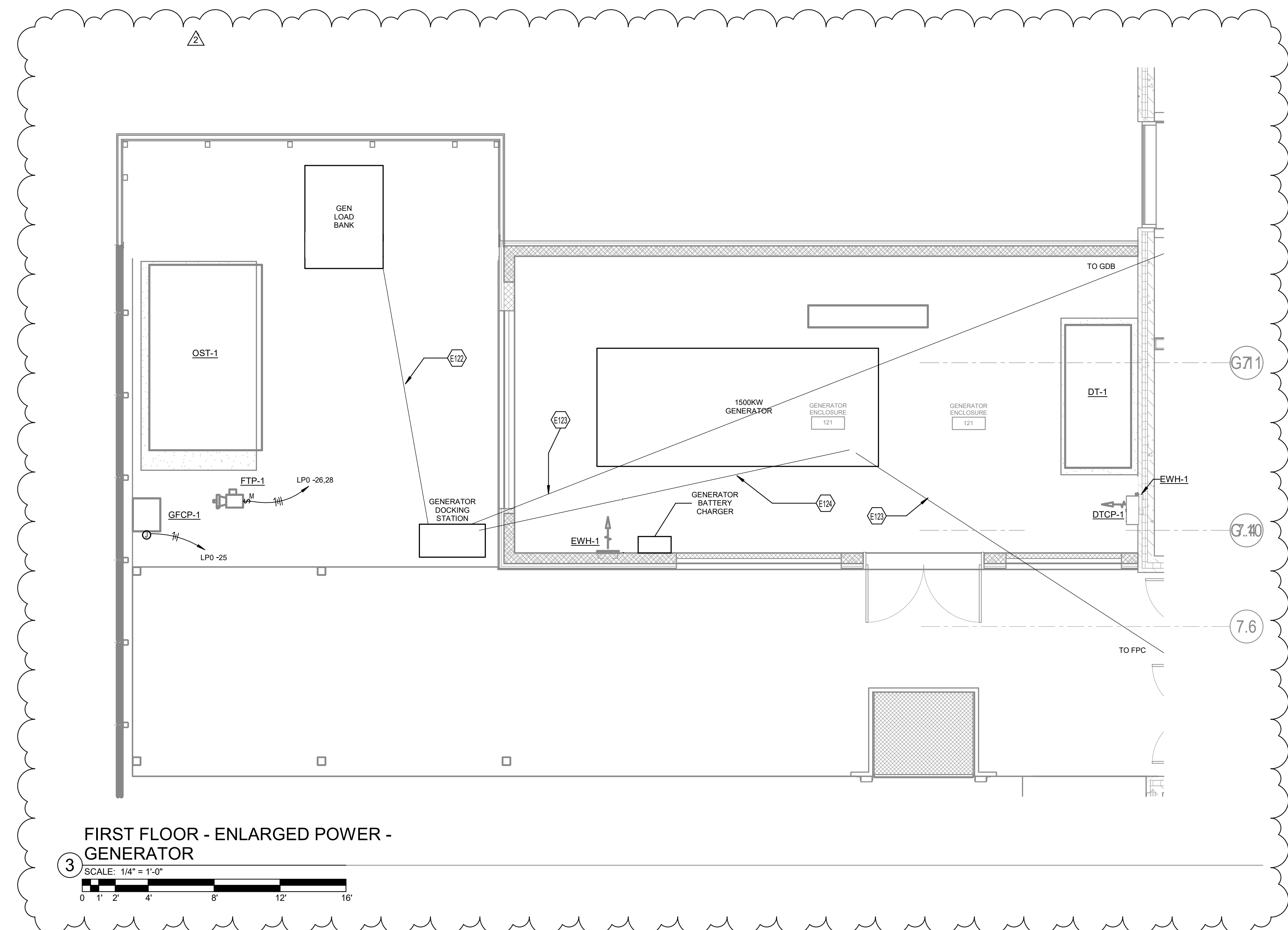
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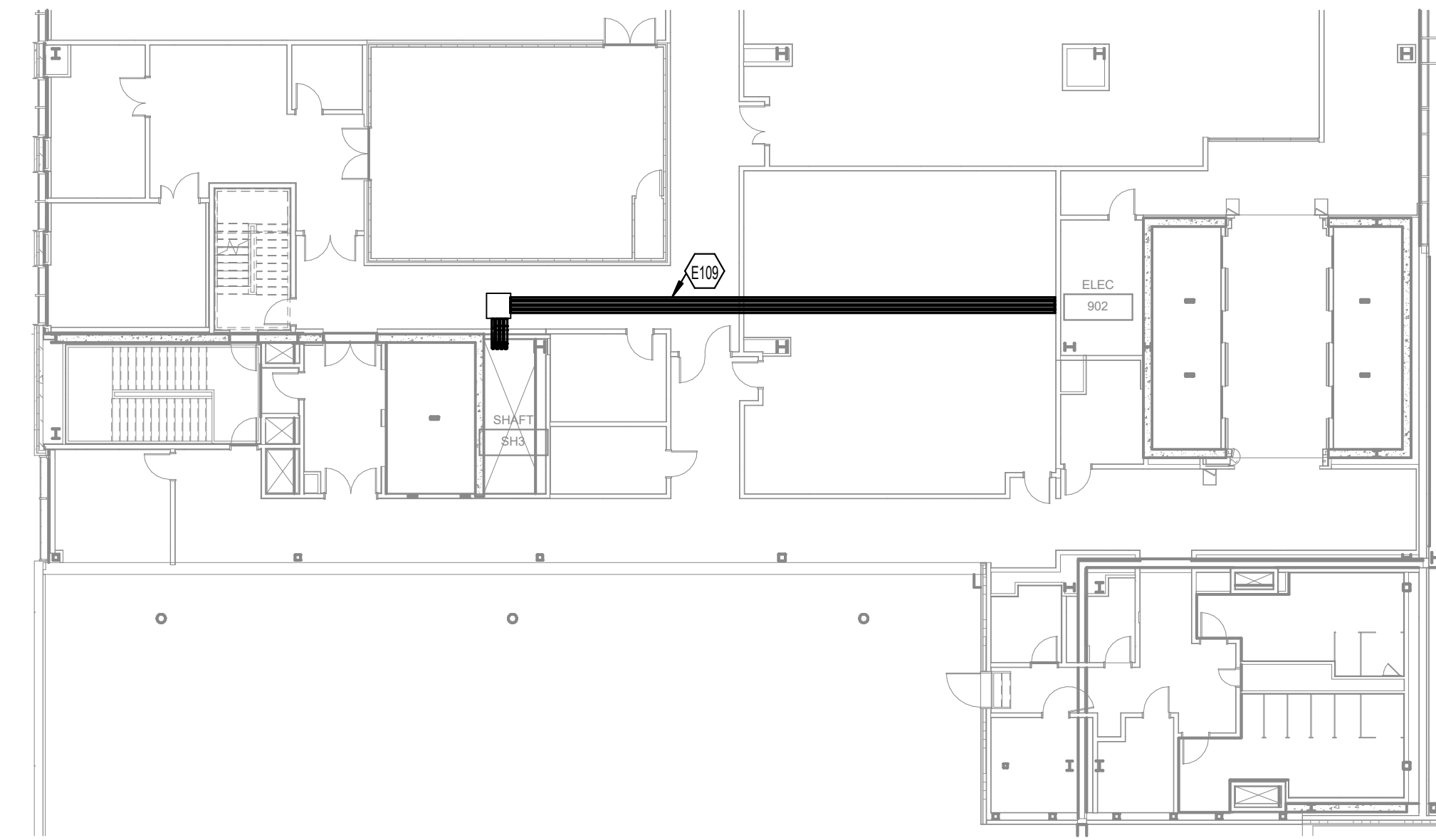
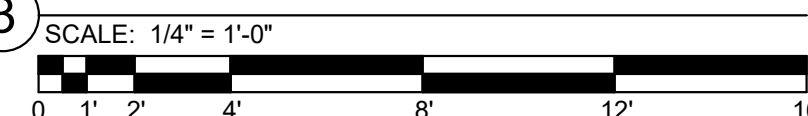
ROUTE ALL PATHWAYS TO AVOID INTERFERENCE WITH STRUCTURE AND OTHER TRADES. PROVIDE CODE-COMPLIANT PULLBOXES AS NECESSARY FOR CABLE INSTALLATION. DO NOT EXCEED MAXIMUM PULLING TENSIONS OR DEGREES OF BEND IN ANY RUN.

**TAGGED NOTES**

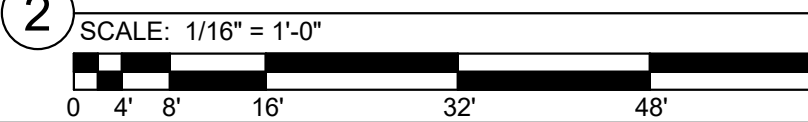
- E07 PROPOSED ABOVE CEILING FEEDER PATHWAY ROUTING. CONTRACTOR SHALL COORDINATE EXACT ROUTING DURING CONSTRUCTION.
- E102 BUILDING EXPANSION JOINT. PROVIDE EXPANSION FITTINGS WITH GROUND BONDING JUMPER AS NECESSARY FOR ALL ELECTRICAL PATHWAYS THAT CROSS THIS SPACE. FITTINGS SHALL ACCOMMODATE A MINIMUM OF 7 INCHES OF DIFFERENTIAL MOVEMENT.
- E109 PROPOSED ABOVE CEILING FEEDER PATHWAY ROUTING FOR EQUIPMENT LOCATED ON THE FENTHOUSE LEVEL. CONTRACTOR SHALL COORDINATE EXACT ROUTING DURING CONSTRUCTION. REFER TO ELECTRICAL POWER ONE-LINE FOR ADDITIONAL INFORMATION.
- E111 CONDUIT PATHWAYS SHALL ROUTE UP TO THE EIGHTH FLOOR FENTHOUSE SUBSTATION AT THE LOCATION.
- E122 PROVIDE LOAD BANK CONDUIT AND FEEDER PER ONE-LINE DIAGRAM
- E123 PROVIDE SWITCHBOARD GDB CONDUIT AND FEEDER PER ONE-LINE DIAGRAM
- E124 PROVIDE CONNECTION CABINET CONDUIT AND FEEDER PER ONE-LINE DIAGRAM



3 FIRST FLOOR - ENLARGED POWER - GENERATOR



2 NINTH FLOOR - ELEC BP4 - PATHWAYS



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**ELECTRICAL**

PROJECT 202170/XKSM21

DATE 09/11/2024

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2	BP-4F FINAL ADDENDUM	09/24/24
3	BP-12 POC #17	09/10/24

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**ELECTRICAL FLOOR PLANS - PATHWAYS - BP4**

**E-201F**

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### ONE-LINE FEEDER SCHEDULE (COPPER)

NOTES:  
TAGS WITH SUFFIX "3W" ARE THREE-WIRE, NO NEUTRAL.

TAG	OCPD SETTING	WIRE SIZE	EQUIP GROUND SIZE	CONDUIT SIZE
20	200 (4W)	(4) #12	(1) #12	3/4"
30	300 (4W)	(4) #10	(1) #10	3/4"
50	400 (3 OR 500 (4W))	(4) #8	(1) #10	1"
60	600 (4W)	(4) #6	(1) #10	1"
80	700 (3 OR 800 (4W))	(4) #4	(1) #8	1-1/4"
100	900 (3 OR 1000 (4W))	(4) #3	(1) #8	1-1/4"
110	1100 (4W)	(4) #2	(1) #6	1-1/2"
125	1250 (4W)	(4) #1	(1) #6	1-1/2"
150	1500 (4W)	(4) #1/0	(1) #6	2"
175	1750 (4W)	(4) #2/0	(1) #6	2"
200	2000 (4W)	(4) #3/0	(1) #6	2"
225	2250 (4W)	(4) #4/0	(1) #4	2-1/2"
250	2500 (4W)	(4) #250 KCML	(1) #4	3"
300	3000 (4W)	(4) #350 KCML	(1) #4	3"
350	3500 (4W)	(4) #500 KCML	(1) #3	3-1/2"
400	4000 (4W)	(4) #500 KCML	(1) #3	3-1/2"
500	5000 (4W)	2 RUNS OF (4) - #250 KCML/PHASE	(1) #2	3"
600	6000 (4W)	2 RUNS OF (4) - #350 KCML/PHASE	(1) #1	3"
700	7000 (4W)	2 RUNS OF (4) - #500 KCML/PHASE	(1) #1/0	3-1/2"
800	8000 (4W)	2 RUNS OF (4) - #500 KCML/PHASE	(1) #1/0	3-1/2"
1000	10000 (4W)	3 RUNS OF (4) - #500 KCML/PHASE	(1) #2/0	3-1/2"
1200	12000 (4W)	4 RUNS OF (4) - #350 KCML/PHASE	(1) #3/0	3-1/2"
1600	16000 (4W)	5 RUNS OF (4) - #500 KCML/PHASE	(1) #4/0	3-1/2"
2000	20000 (4W)	6 RUNS OF (4) - #500 KCML/PHASE	(1) #250 KCML	3-1/2"
3000	30000 (4W)	8 RUNS OF (4) - #500 KCML/PHASE	(1) #400 KCML	3-1/2"
4000	40000 (4W)	11 RUNS OF (4) - #500 KCML/PHASE	(1) #500 KCML	3-1/2"
EX	EXISTING TO REMAIN			

#### LEGEND

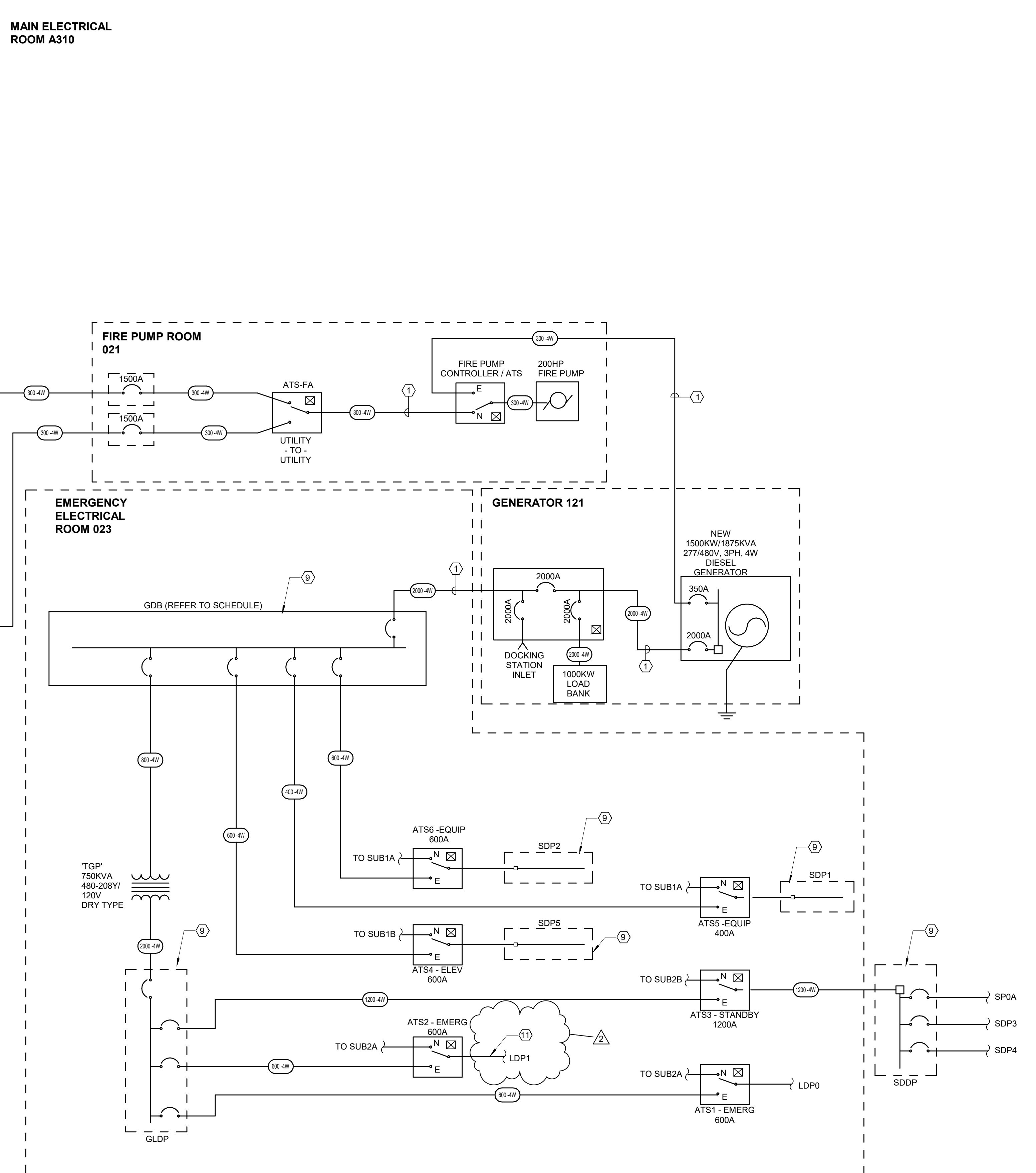
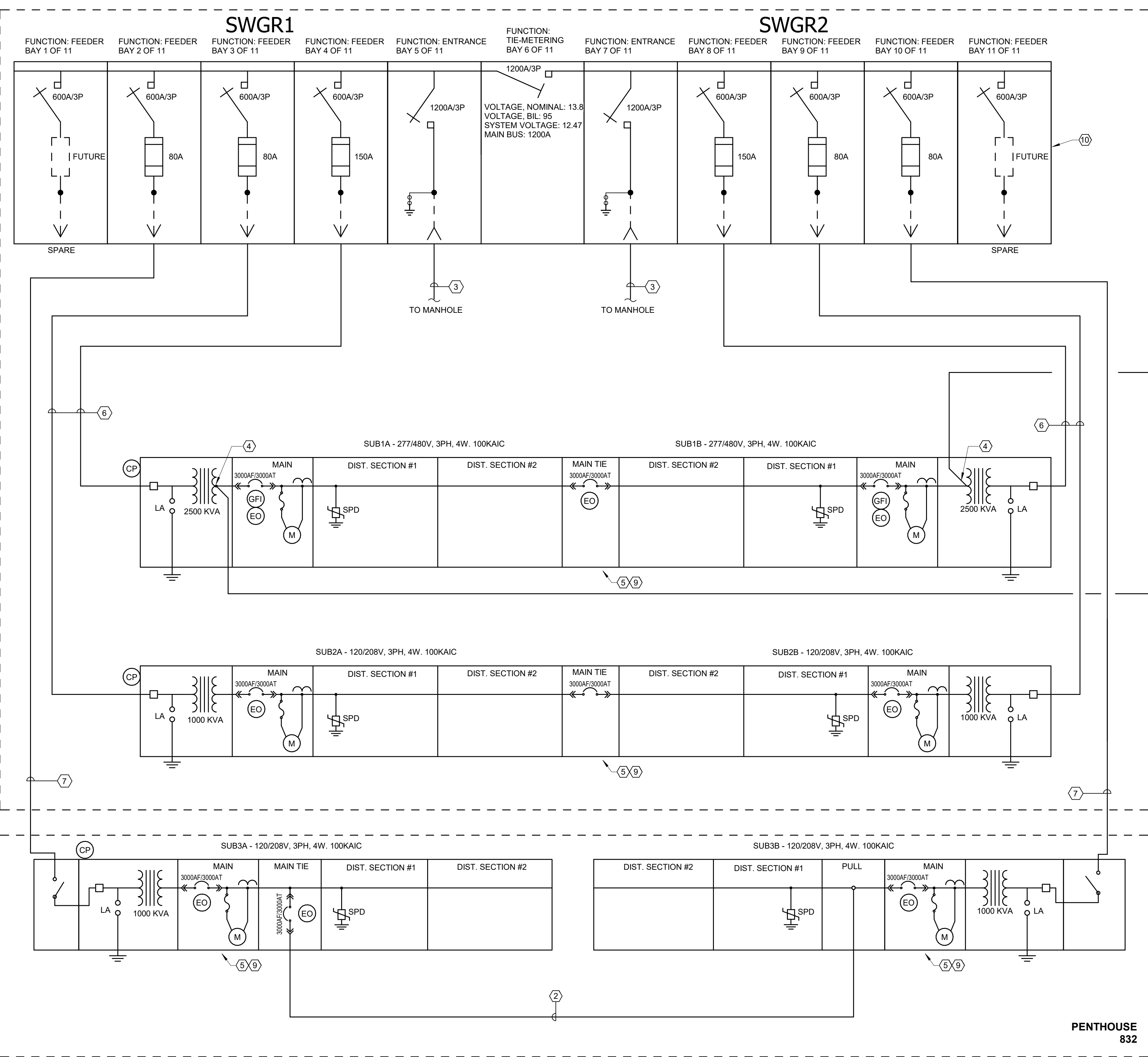
(GF)	GROUND FAULT TRIP
(EO)	ELECTRICALLY OPERATED
(KI)	KIRK KEY INTERLOCKED
(M)	SQUARE 'D' MODEL PM563RD ENERGY METER / MONITOR
(CP)	CONTROL PANEL FOR REMOTE PLC CONTROL OF MAINS AND TIES
(E)	ELECTRONIC LSI TRIP BREAKER
(LA)	LIGHTNING ARRESTER
□	CABLE TO BUS CONNECTION
SPD	SURGE PROTECTION DEVICE

#### GENERAL NOTES: (POWER DISTRIBUTION RISER DIAGRAM)

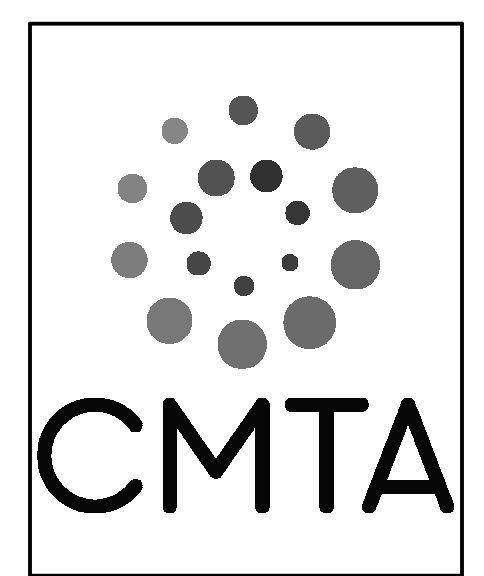
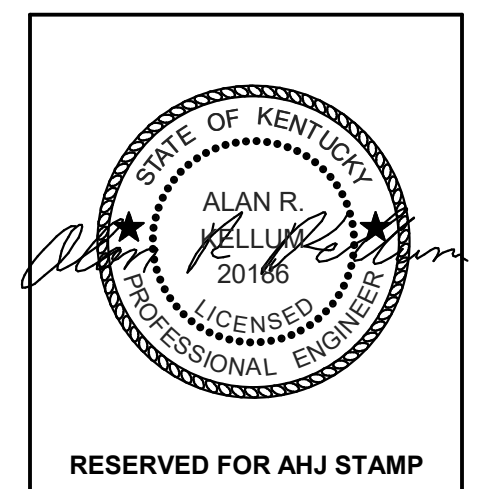
- ALL NEW CONDUCTORS SHALL BE COPPER (REFER TO SPECIFICATIONS FOR TYPES).
- REFER TO DETAILS FOR TYPICAL PANEL LABELING REQUIREMENTS.
- REFER TO BID PACKAGE #2 (BP-02), ENLARGED ELECTRICAL ROOM PLANS FOR PANELBOARD LOCATIONS AND LAYOUTS.
- REFER TO BID PACKAGE #4A (BP-04A) FOR MAIN GEAR LAYOUT AND ADDITIONAL PANEL SCHEDULES.
- REFER TO PANEL SCHEDULES FOR EQUIPMENT ACCESSORIES, BREAKER SIZES, AND RELATED INFORMATION.
- AS PART OF THIS CONTRACT, PROVIDE A COMPREHENSIVE ARC FLASH HAZARD ANALYSIS FOR ALL POWER DISTRIBUTION DEVICES ON THIS PROJECT. PROVIDE ALL LABELS, WARNING SIGNAGE, ETC. PER NFPA-70E AND OSHA REQUIREMENTS. ALL LABELS SHALL BE AFFIXED PRIOR TO FINAL ELECTRICAL INSPECTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DATA TO THE SWITCHGEAR MANUFACTURER NO LATER THAN TWO WEEKS FOLLOWING AWARD OF PROJECT AS REQUIRED TO COMPLETE THE ANALYSIS. STUDY SHALL INCLUDE ALL EXISTING EQUIPMENT IN EXISTING FACILITY. REFER TO SPECIFICATION SECTION 260573, "ELECTRICAL STUDIES," FOR ADDITIONAL REQUIREMENTS.
- AS PART OF THIS CONTRACT, PROVIDE A COORDINATION FAULT CURRENT STUDY FOR BREAKERS ON THIS PROJECT. STUDY SHALL INCLUDE ALL MAINS AND FEEDERS SHOWN ON THESE DRAWINGS AND SHALL EXTEND TO THE MAIN LUGS OR BREAKER OF THE FURTHEST DEVICE DOWNSTREAM. THE EQUIPMENT, CRITICAL AND LIFE SAFETY EMERGENCY POWER SYSTEMS SHALL BE SELECTIVELY COORDINATED TO 0.1 SECONDS THROUGH BOTH THE UTILITY AND GENERATOR DERIVED SYSTEMS. EQUIPMENT PRESENTLY SHOWN IS THE BASIS OF DESIGN - OTHER MANUFACTURERS LISTED AS EQUALS MAY NEED TO MODIFY LAYOUTS AND EQUIPMENT IN ORDER TO MEET THIS REQUIREMENT. ALL MANUFACTURERS MUST UTILIZE ELECTRONIC TRIP BREAKERS WITH ADJUSTABLE TRIP SETTINGS WHERE REQUIRED TO MEET SELECTIVE COORDINATION REQUIREMENTS. WHERE MODIFICATION TO EQUIPMENT INDICATED ON THESE DRAWINGS IS REQUIRED IN ORDER TO ACHIEVE COORDINATION, THESE CHANGES SHALL BE CLEARLY NOTED IN THE STUDY. WHERE ACTUAL BREAKER AMPACITIES ARE INCREASED TO ACHIEVE COORDINATION, THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING ALL COST ASSOCIATED WITH THESE CHANGES IN THEIR BID (INCLUDING INCREASES IN FEEDER SIZES). SUBMIT STUDY AS SHOP DRAWING TO ENGINEER PRIOR TO ORDERING ANY POWER DISTRIBUTION EQUIPMENT. ANY EQUIPMENT SUBMITTED PRIOR TO SUBMISSION OF THIS STUDY WILL NOT BE REVIEWED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DATA TO THE SWITCHGEAR MANUFACTURER NO LATER THAN TWO WEEKS FOLLOWING AWARD OF PROJECT AS REQUIRED TO COMPLETE THE ANALYSIS. REFER TO SPECIFICATION SECTION 260573, "ELECTRICAL STUDIES," FOR ADDITIONAL REQUIREMENTS.
- AS PART OF THIS CONTRACT, PROVIDE AN IEEE 1547 CERTIFICATION.
- CONTRACTOR SHALL INSTALL SEPARATE CONDUITS, PULL BOXES, ETC. FOR EMERGENCY POWER AND NORMAL POWER FEEDERS PER NEC FOR COMPLETE SEPARATION OF POWER SERVICES.
- THERMAL SCAN OF PANEL AND LARGE EQUIPMENT TERMINATIONS SHALL BE PROVIDED TO OWNER AT COMPLETION OF PROJECT. CONTRACTOR TO CORRECT DEFICIENCIES DISCOVERED AT NO ADDITIONAL COST TO CONTRACT.
- POWER INTERRUPTIONS SHALL BE PLANNED WITH TWO WEEK MINIMUM NOTICE PRIOR TO INTERRUPTION TO EXISTING FACILITY POWER. CONTRACTOR SHALL COORDINATE ALL EXPECTED PROCEDURES WITH OWNER AND ALL LOCAL INSPECTION AGENCIES ONE MONTH PRIOR TO INTERRUPTING POWER. CONTRACTOR SHALL SUBMIT TO ENGINEER A DETAILED OUTLINE AND DESCRIPTION OF HOW THIS PROCEDURE IS TO TAKE PLACE, FOR HOW LONG POWER WILL BE DOWN, WHO HAS BEEN CONTACTED, ETC. THIS OUTLINE AND DESCRIPTION IS TO BE SUBMITTED AS SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. NO INTERRUPTION OF MAIN SERVICE POWER SHALL OCCUR WITHOUT THE ENGINEER'S WRITTEN APPROVAL OF THE ABOVE REFERENCED MATERIAL.
- REFER TO PANEL AND EQUIPMENT SCHEDULES FOR FEEDER AND OVERCURRENT DEVICE SIZES.
- SERVICE EQUIPMENT SHALL BE MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT AT THE EQUIPMENT AND THE DATE THE CALCULATION WAS PERFORMED. APPLY A TYPE-WRITTEN ADHESIVE LABEL WITH WHITE BACKGROUND 1/2" HIGH BLACK LETTERING.
- ALL CIRCUIT BREAKERS AND/OR DISCONNECTS SERVING THE PRIMARY SIDE OF A TRANSFORMER WHICH ARE NOT WITHIN SITE OF THE TRANSFORMER SHALL BE PROVIDED WITH PERMANENTLY INSTALLED MEANS TO LOCK THE BREAKER IN THE OFF POSITION. SUCH TRANSFORMERS SHALL HAVE THE ROOM NAME AND NUMBER OF THE PRIMARY DISCONNECTING MEANS ENGRAVED ON THE EQUIPMENT NAMEPLATE.

#### RISER KEYNOTES

- CONDUITS SHALL BE CONCRETE ENCASED AND ROUTED BELOW SLAB PER BP1 / UK STANDARD DUCT BANK DETAIL.
- 2000A-277/480V/3PH/4W ENCLOSED COPPER BUSWAY WITH 100% NEUTRAL BUSWAY IS PROVIDED UNDER A SEPARATE BID PACKAGE AND IS NOT A PART OF THE BID PACKAGE.
- PROVIDE THREE (3) 500 KCML 15KV-105 CABLES AND ONE (1) 500 KCML EQUIPMENT GROUND IN CONCRETE ENCASED 5" CONDUIT PER DUCT BANK DETAIL. PROVIDE ONE (1) 5" SPARE CONDUIT IN DUCT BANK.
- PROVIDE DOUBLE LUGS ON SUBSTATION SECONDARY TO FEED FIRE PUMP ATS.
- PROVIDE OVERHEAD CIRCUIT BREAKER LIFTING DEVICE. MOUNT AT TOP FRONT OF SWITCHBOARD WITH HOIST AND LIFTING YOKES MATCHING EACH DRAW-OUT CIRCUIT BREAKER.
- PROVIDE THREE (3) 500 KCML 15KV-105 CABLES AND ONE (1) 500 KCML EQUIPMENT GROUND IN 5" CONCRETE ENCASED CONDUIT ROUTED BELOW SLAB. PROVIDE ONE (1) 5" SPARE CONDUIT.
- PROVIDE THREE (3) 500 KCML 15KV-105 CABLES AND ONE (1) 500 KCML EQUIPMENT GROUND IN 5" RGS CONDUIT ROUTED THROUGH THE BUILDING. PROVIDE ONE (1) 5" SPARE CONDUIT.
- UNIT SUBSTATION SHOWN FOR REFERENCE ONLY - SUBSTATION IS PROVIDED UNDER A SEPARATE BID PACKAGE AND IS NOT A PART OF THIS BID PACKAGE.
- DISTRIBUTION PANELBOARD IS PROVIDED UNDER A SEPARATE BID PACKAGE AND IS NOT A PART OF THIS BID PACKAGE. PANELBOARD IS SHOWN FOR REFERENCE ONLY.
- MAIN SWITCHGEAR IS PROVIDED UNDER A SEPARATE BID PACKAGE AND IS NOT A PART OF THIS BID PACKAGE. SWITCHGEAR IS SHOWN FOR REFERENCE ONLY.
- EMERGENCY FEEDER CIRCUIT WIRING SHALL BE INSTALLED AS A 2-HOUR FIRE RESISTIVE SYSTEM IN ACCORDANCE WITH NFPA 70 SECTION 700.10(D) AND UL 718. INSTALL RHH-2 RHH, OR MI CABLE WITHIN ABOVE-CEILING CONDUIT. ALL INSTALLATION METHODS ARE TO COMPLY WITH THE CABLE SYSTEM LISTING REQUIREMENTS, PRYSMIAN LIFELINE, RADIX DURALIFE OR APPROVED EQUIVALENT.



1 POWER DISTRIBUTION RISER DIAGRAM  
SCALE: NONE



BP-04F  
MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



#### ELECTRICAL

PROJECT 202170/XKSM21  
DATE 09/11/2024

No.	Description	Date
2	BP-04F FINAL ADDENDUM	09/24/24

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART FOR ANY OTHER PROJECT THAN THE PROJECT THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS FOR OTHER PROJECTS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RELATING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

ELEC POWER DISTRIBUTION ONE-LINE DIAGRAM - BP4  
E-600F  
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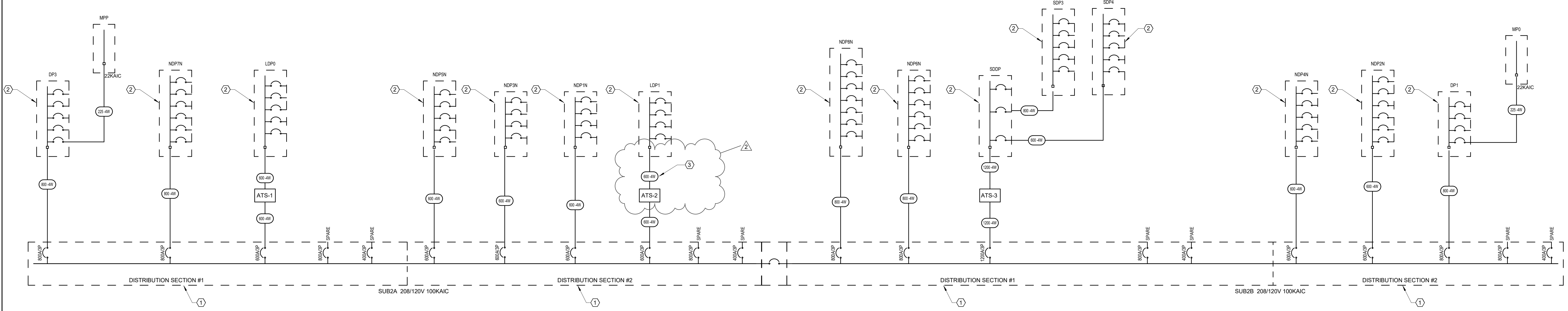
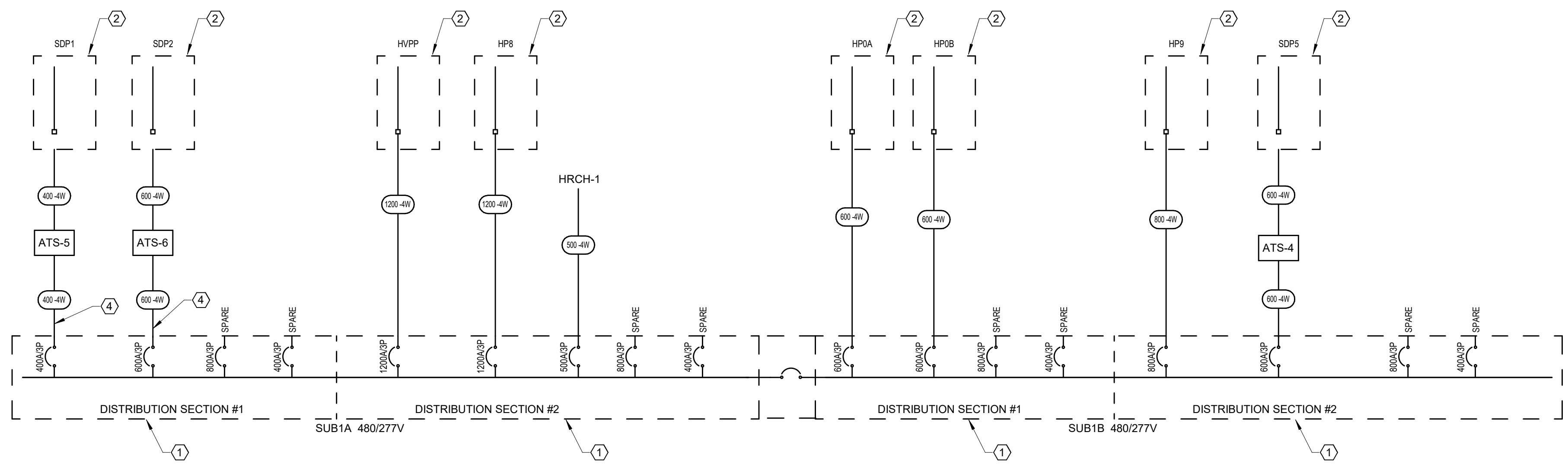
RISER KEYNOTES

1. LOW VOLTAGE SWITCHBOARD PORTION OF UNIT SUBSTATION SHOWN FOR REFERENCE ONLY. REFER TO SUBSTATION DIAGRAM FOR ADDITIONAL INFORMATION. SUBSTATION IS PROVIDED UNDER A SEPARATE BID PACKAGE AND IS NOT A PART OF THIS BID PACKAGE.
2. DISTRIBUTION PANELBOARD IS PROVIDED UNDER A SEPARATE BID PACKAGE AND IS NOT A PART OF THIS BID PACKAGE. PANELBOARD IS SHOWN FOR REFERENCE ONLY.
3. EMERGENCY FEEDER CIRCUIT WIRING SHALL BE INSTALLED AS A 2-HOUR FIRE RESISTIVE SYSTEM IN ACCORDANCE WITH NFPA 70 SECTION 700.10(D) AND UL 2196. INSTALL RHW-2, RHH, OR MI CABLING WITHIN ABOVE-CEILING CONDUIT. ALL INSTALLATION METHODS ARE TO COMPLY WITH THE CABLE SYSTEM LISTING REQUIREMENTS. PRYSMIAN LIFELINE, RADIX DURALIFE OR APPROVED EQUIVALENT.

ONE-LINE FEEDER SCHEDULE (COPPER)

NOTES:  
TAGS WITH SUFFIX "-3W" ARE THREE-WIRE, NO NEUTRAL.

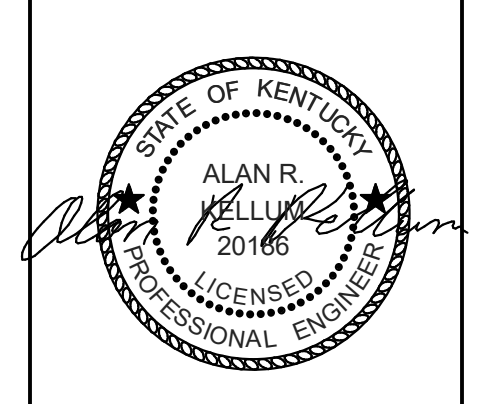
TAG	OCDP SETTING	WIRE SIZE	EQUIP GROUND SIZE	CONDUIT SIZE
20	2003 (4W)	(4) #12	(1) #12	3/4"
30	303 (4W)	(4) #10	(1) #10	3/4"
50	40/3 OR 50/3 (4W)	(4) #8	(1) #10	1"
60	60/3 (4W)	(4) #6	(1) #10	1"
80	70/3 OR 80/3 (4W)	(4) #4	(1) #8	1-1/4"
100	90/3 OR 100/3 (4W)	(4) #3	(1) #8	1-1/4"
110	110/3 (4W)	(4) #2	(1) #6	1-1/2"
125	125/3 (4W)	(4) #1	(1) #6	1-1/2"
150	150/3 (4W)	(4) #1/0	(1) #6	2"
175	175/3 (4W)	(4) #2/0	(1) #6	2"
200	200/3 (4W)	(4) #3/0	(1) #6	2"
225	225/3 (4W)	(4) #4/0	(1) #4	2-1/2"
250	250/3 (4W)	(4) #250 KCMIL	(1) #4	3"
300	300/3 (4W)	(4) #350 KCMIL	(1) #4	3"
350	350/3 (4W)	(4) #500 KCMIL	(1) #3	3-1/2"
400	400/3 (4W)	(4) #500 KCMIL	(1) #3	3-1/2"
500	500/3 (4W)	2 RUNS OF (4) - #250 KCMIL/PHASE	(1) #2	3"
600	600/3 (4W)	2 RUNS OF (4) - #350 KCMIL/PHASE	(1) #1	3"
700	700/3 (4W)	2 RUNS OF (4) - #500 KCMIL/PHASE	(1) #1/0	3-1/2"
800	800/3 (4W)	2 RUNS OF (4) - #500 KCMIL/PHASE	(1) #1/0	3-1/2"
1000	1000/3 (4W)	3 RUNS OF (4) - #500 KCMIL/PHASE	(1) #2/0	3-1/2"
1200	1200/3 (4W)	4 RUNS OF (4) - #350 KCMIL/PHASE	(1) #3/0	3-1/2"
1600	1600/3 (4W)	5 RUNS OF (4) - #500 KCMIL/PHASE	(1) #4/0	3-1/2"
2000	2000/3 (4W)	6 RUNS OF (4) - #500 KCMIL/PHASE	(1) #250 KCMIL	3-1/2"
3000	3000/3 (4W)	8 RUNS OF (4) - #500 KCMIL/PHASE	(1) #400 KCMIL	3-1/2"
4000	4000/3 (4W)	11 RUNS OF (4) - #600 KCMIL/PHASE	(1) #500 KCMIL	3-1/2"
EX	EXISTING TO REMAIN			



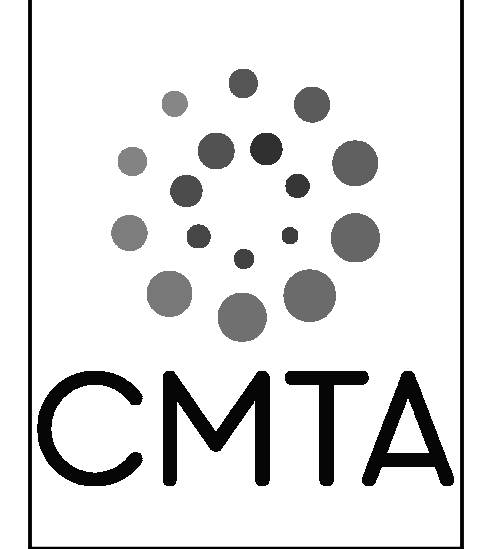
1 E-601F - ONE-LINE DIAGRAM - FEEDERS  
SCALE: NONE



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Lexington, Kentucky 40509  
859.252.6781



RESERVED FOR ANJ STAMP



**BP-04F**  
**MICHAEL D. RANKIN MD HEALTH**  
**EDUCATION BUILDING**  
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**ELECTRICAL**

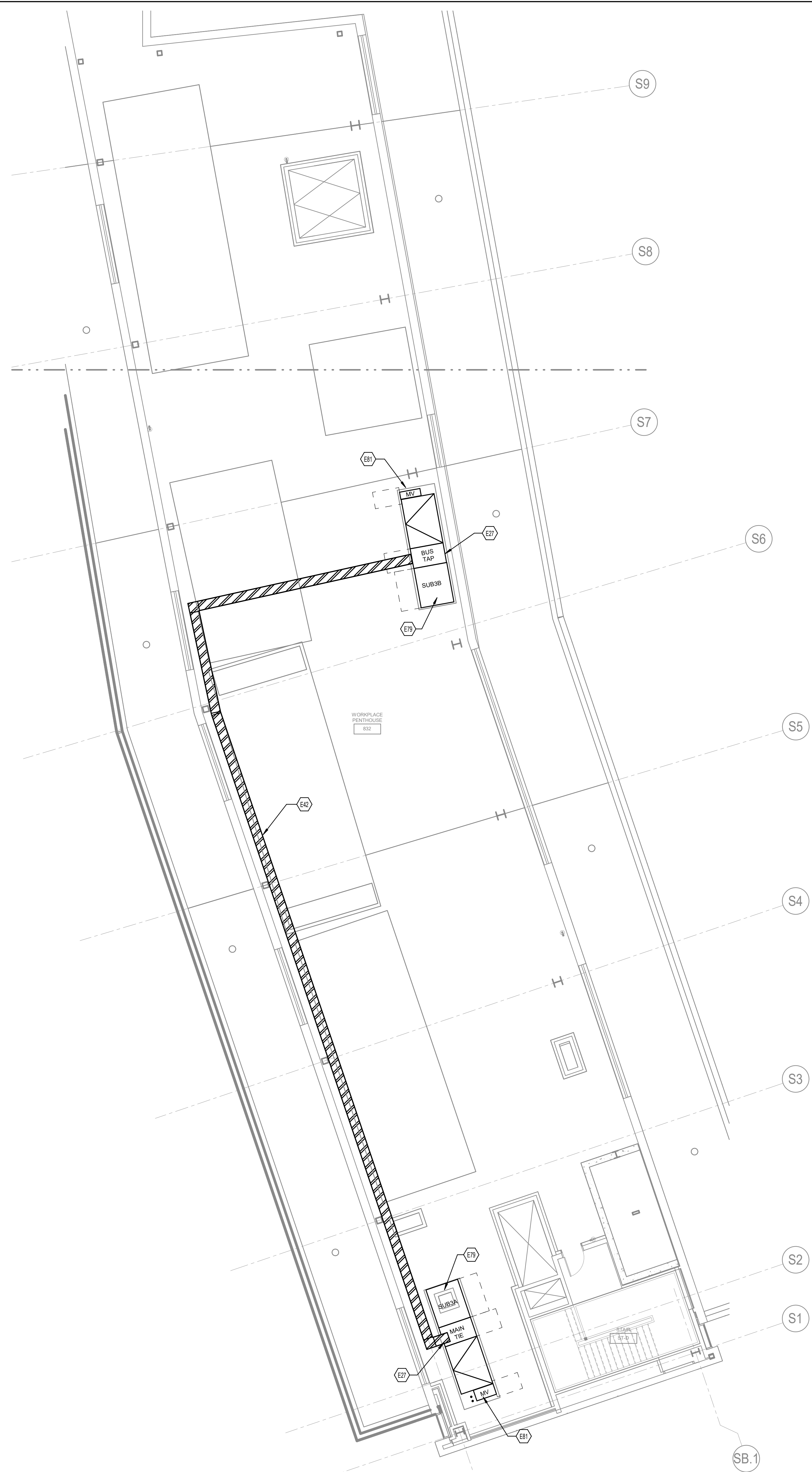
PROJECT 202170/XKSM21  
DATE 09/11/2024

No.	Description	Date
2	BP-4F FINAL ADDENDUM	09/24/24

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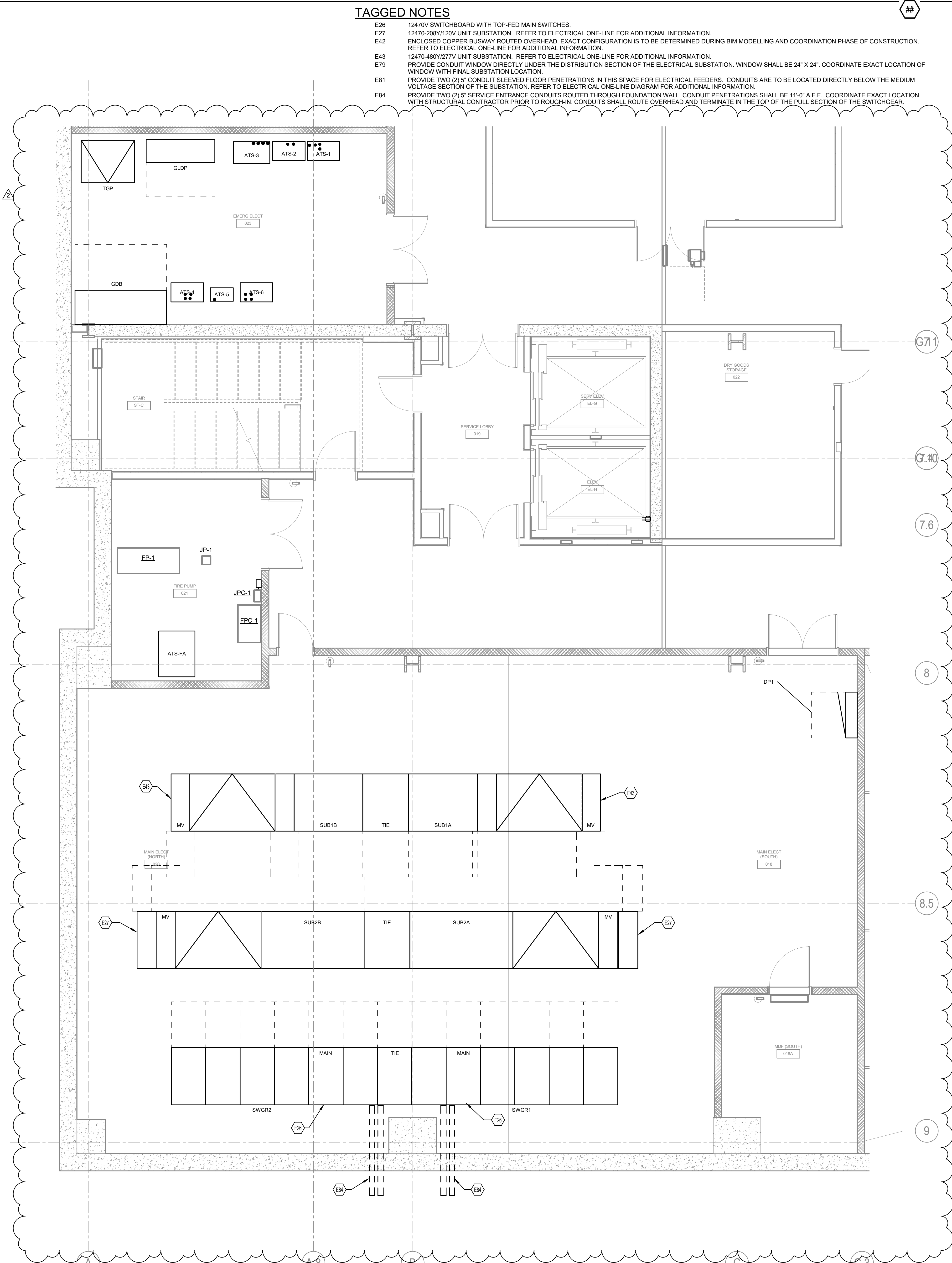
**ELEC POWER DISTRIBUTION ONE-LINE DIAGRAM - BP4**

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**EIGHTH FLOOR PENTHOUSE - ELECTRICAL**  
BP-4

1 SCALE: 1/8" = 1'-0"  
0 2 4 8 16 24 32



**ENLARGED BASEMENT PLAN - ELEC RM 020**

2 SCALE: 1/4" = 1'-0"  
0 2 4 8 16 24 32

**TAGGED NOTES**

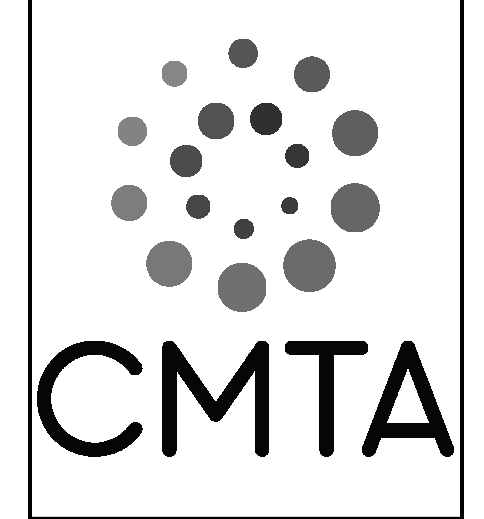
- E26 12470V SWITCHBOARD WITH TOP-FED MAIN SWITCHES.
- E27 12470-208Y/120V UNIT SUBSTATION. REFER TO ELECTRICAL ONE-LINE FOR ADDITIONAL INFORMATION.
- E42 ENCLOSED COPPER BUSWAY ROUTED OVERHEAD. EXACT CONFIGURATION IS TO BE DETERMINED DURING BIM MODELLING AND COORDINATION PHASE OF CONSTRUCTION. REFER TO ELECTRICAL ONE-LINE FOR ADDITIONAL INFORMATION.
- E43 12470-480Y/277V UNIT SUBSTATION. REFER TO ELECTRICAL ONE-LINE FOR ADDITIONAL INFORMATION.
- E79 PROVIDE CONDUIT WINDOW DIRECTLY UNDER THE DISTRIBUTION SECTION OF THE ELECTRICAL SUBSTATION. WINDOW SHALL BE 24" X 24". COORDINATE EXACT LOCATION OF WINDOW WITH FINAL SUBSTATION LOCATION.
- E81 PROVIDE TWO (2) 5" CONDUIT SLEEVED FLOOR PENETRATIONS IN THIS SPACE FOR ELECTRICAL FEEDERS. CONDUITS ARE TO BE LOCATED DIRECTLY BELOW THE MEDIUM VOLTAGE SECTION OF THE SUBSTATION. REFER TO ELECTRICAL ONE-LINE FOR ADDITIONAL INFORMATION.
- E84 PROVIDE TWO (2) 5" SERVICE ENTRANCE CONDUITS ROUTED THROUGH FOUNDATION WALL. CONDUIT PENETRATIONS SHALL BE 11'-0" A.F.F. COORDINATE EXACT LOCATION WITH STRUCTURAL CONTRACTOR PRIOR TO ROUGH-IN. CONDUITS SHALL ROUTE OVERHEAD AND TERMINATE IN THE TOP OF THE PULL SECTION OF THE SWITCHGEAR.



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Lexington, Kentucky 40509  
859.252.6781

**NOT FOR CONSTRUCTION**

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**BP-04F**  
**MICHAEL D. RANKIN MD HEALTH**  
**EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



ELECTRICAL		
PROJECT	202170/XKSM21	
DATE	09/11/2024	
REVISIONS		
No.	Description	Date
2	BP-04F FINAL ADDENDUM	09/24/24

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**ENLARGED ELECTRICAL POWER PLANS - BP4**

**E-400S**  
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## SECTION 07 8413 - PENETRATION FIRESTOPPING

### PART 1 - GENERAL

#### 1.1 SUMMARY

##### A. Section Includes:

1. Penetration firestopping systems.
2. Penetrations in fire-resistance-rated walls.
3. Penetrations in horizontal assemblies.
4. Penetrations in smoke barriers.
5. Exposed penetration firestopping systems.

##### B. Related Requirements:

1. Section 078443 "Joint Firestopping" for joints in or between fire-resistance-rated construction, at exterior curtain-wall/floor intersections, and in smoke barriers.
2. Section 079200 "Joint Sealants" for non-fire-resistance-rated joint sealants.
3. Section 079219 "Acoustical Joint Sealants" for sealing joints in sound-rated construction.

#### 1.2 PREINSTALLATION MEETINGS

- ##### A. Preinstallation Conference: Conduct conference at Project site.

#### 1.3 ACTION SUBMITTALS

- ##### A. Product Data: For each type of product.

- ##### B. Product Schedule: For each penetration firestopping system. Include location, illustration of firestopping system, and design designation of qualified testing and inspecting agency.

1. Engineering Judgments: Where Project conditions require modification to a qualified testing and inspecting agency's illustration for a particular penetration firestopping system, submit illustration, with modifications marked, approved by penetration firestopping system manufacturer's fire-protection engineer as an engineering judgment or equivalent fire-resistance-rated assembly developed in accordance with current International Firestop Council (IFC) guidelines. Obtain approval of authorities having jurisdiction prior to submittal.

- ##### C. Sustainable Design Submittals:

1. Product Data: For sealants, indicating VOC content.
2. Laboratory Test Reports: For sealants, indicating compliance with requirements for low-emitting materials.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Listed System Designs: For each penetration firestopping system, for tests performed by a qualified testing agency.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Installer Certificates: From Installer indicating that penetration firestopping systems have been installed in compliance with requirements and manufacturer's written instructions.

#### 1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Entity that has been approved by FM Approvals in accordance with FM Approvals 4991 or been evaluated by UL and found to comply with UL's "UL Solutions Qualified Firestop Contractor Program."
- B. Manufacturer Qualifications: Entity that has received UL's "Firestop Movement Certification," which demonstrates that manufacturer's firestopping products designated with M-Ratings are based on exposure to cyclic movement and UL 1479 fire test evaluation when tested in accordance with ASTM E3037.

#### 1.7 MOCKUPS

- A. Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
  - 1. Build mockup of each penetration firestopping system type required for Project, including supporting construction substrates, attachments, and accessories.
  - 2. Where one penetration firestopping system type may be used for different penetrating items or in different wall or floor constructions, install one assembly for each different combination.
  - 3. Obtain approval of mockups from authorities having jurisdiction before proceeding.
  - 4. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Owner specifically approves such deviations by Change Order.
  - 5. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

#### 1.8 FIELD CONDITIONS

- A. Environmental Limitations: Do not install penetration firestopping systems when ambient or substrate temperatures are outside limits permitted by penetration firestopping system manufacturers or when substrates are wet because of rain, frost, condensation, or other causes.
- B. Install and cure penetration firestopping system materials in accordance with manufacturer's written instructions using natural means of ventilations or, where this is inadequate, forced-air circulation.



## 1.9 COORDINATION

- A. Coordinate construction of openings and penetrating items to ensure that penetration firestopping systems can be accessed and installed in accordance with specified firestopping system design.
- B. Coordinate sizing of sleeves, openings, core-drilled holes, or cut openings to accommodate penetration firestopping systems.

## PART 2 - PRODUCTS

### 2.1 SOURCE LIMITATIONS

- A. Obtain penetration firestopping systems for each type of opening indicated from single manufacturer.

### 2.2 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics:
  - 1. A qualified testing agency, acceptable to authorities having jurisdiction, will perform penetration firestopping system tests.
  - 2. Test in accordance with testing standards referenced in "Penetration Firestopping Systems" Article. Provide rated systems complying with the following requirements:
    - a. Penetration firestopping systems installed with products bearing the classification marking of a qualified testing agency.
      - 1) UL in its online directory "Product iQ."
- B. Provide components for each penetration firestopping system that, upon curing, do not re-emulsify, dissolve, leach, break down, or otherwise deteriorate over time from exposure to atmospheric moisture, sweating pipes, ponding water, or other forms of moisture characteristic during and after construction.
- C. Provide components for each penetration firestopping system that do not contain ethylene glycol.
- D. Provide components for each penetration firestopping system that are sufficiently flexible to accommodate movement, such as pipe vibration, water hammer, thermal expansion, and other normal building movement without damage.
- E. Provide components for each penetration firestopping system that are appropriately tested for the thickness and type of insulation utilized.

### 2.3 PENETRATION FIRESTOPPING SYSTEMS

- A. Penetration Firestopping Systems: Systems that resist spread of fire, passage of smoke and other gases, and maintain original fire-resistance rating of construction penetrated. Penetration firestopping systems must be compatible with one another, with the substrates forming

openings, and with penetrating items if any.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. 3M Building and Construction
    - b. Hilti, Inc.
  - B. Penetrations in Fire-Resistance-Rated Walls: Penetration firestopping systems with ratings determined in accordance with ASTM E814 or UL 1479.
    1. F-Rating: Not less than the fire-resistance rating of the wall penetrated.
    2. Membrane Penetrations: Install recessed fixtures such that the required fire resistance will not be reduced.
  - C. Penetrations in Horizontal Assemblies: Penetration firestopping systems with ratings determined in accordance with ASTM E814 or UL 1479.
    1. F-Rating: At least one hour, but not less than the fire-resistance rating of the floor penetrated.
    2. T-Rating: At least one hour, but not less than the fire-resistance rating of the floor. The following floor penetrations do not require a T-rating:
      - a. Those within the cavity of a wall.
      - b. Floor, tub, or shower drains within a concealed space.
      - c. 4-inch or smaller metal conduit penetrating directly into metal-enclosed electrical switchgear.
    3. W-Rating: Provide penetration firestopping systems with a Class 1 W-rating in accordance with UL 1479.
  - D. Penetrations in Smoke Barriers: Penetration firestopping systems with ratings determined in accordance with UL 1479.
    1. L-Rating: Not exceeding 5.0 cfm/sq. ft. of penetration opening and no more than 50-cfm cumulative total for any 100 sq. ft. at both ambient and elevated temperatures.
  - E. Exposed Penetration Firestopping Systems: Flame-spread and smoke-developed indexes of less than 25 and 450, respectively, when tested in accordance with ASTM E84 or UL 723.
    1. Sealant shall have a VOC content of 250 g/L or less.
    2. Sealant shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- 2.4 ACCESSORIES
- A. Provide components for each penetration firestopping system that are needed to install fill materials and to maintain ratings required. Use only those components specified by penetration firestopping system manufacturer and approved by qualified testing and inspecting agency for conditions indicated, including but not limited to:

1. Permanent forming/damming/backing materials.
2. Substrate primers.
3. Collars.
4. Steel sleeves.

## 2.5 FILL MATERIALS

- A. Cast-in-Place Firestopping Devices: Factory-assembled devices for use in cast-in-place concrete floors and consisting of an outer sleeve lined with an intumescent strip, a flange attached to one end of the sleeve for fastening to concrete formwork, and a neoprene gasket.
- B. Latex Sealants: Single-component latex formulations that do not re-emulsify after cure during exposure to moisture.
- C. Firestopping Devices: Factory-assembled collars formed from galvanized steel and lined with intumescent material sized to fit specific diameter of penetrant.
- D. Intumescent Composite Sheets: Rigid panels consisting of aluminum-foil-faced intumescent elastomeric sheet bonded to galvanized-steel sheet.
- E. Intumescent Putties: Nonhardening, water-resistant, intumescent putties containing no solvents or inorganic fibers.
- F. Intumescent Wrap Strips: Single-component intumescent elastomeric strips for use around combustible penetrants.
- G. Mortars: Prepackaged dry mixes consisting of a blend of inorganic binders, hydraulic cement, fillers and lightweight aggregate formulated for mixing with water at Project site to form a nonshrinking, homogeneous mortar.
- H. Pillows/Bags: Compressible, removable, and reusable intumescent pillows encased in fire-retardant polyester or glass-fiber cloth. Where exposed, and when required by a listed system, cover openings with steel-reinforcing wire mesh to protect pillows/bags from being easily removed or dislodged.
- I. Silicone Foams: Multicomponent, silicone-based liquid elastomers that, when mixed, expand and cure in place to produce a flexible, nonshrinking foam.
- J. Silicone Sealants: Single-component, silicone-based, neutral-curing elastomeric sealants.
- K. Thermal and Endothermic Wraps: Flexible, insulating, and fire-resistant protective wraps tested and listed for up to 2-hour fire ratings in accordance with ASTM E814 or UL 1479; for protecting membrane penetrations of utility boxes, critical electrical circuits, communications lines, and fuel lines, and for thermal barrier and circuit integrity protection in accordance with ASTM E1725 or UL 1724.
- L. Fire-Rated Cable Sleeve Kits: Complete kits designed for new or existing cable penetrations through walls which accept standard accessories.
- M. Fire-Rated Cable Pathways: Single or gangable device modules composed of a steel raceway with integral intumescent material and requiring no additional action in the form of plugs, twisting closure, putty, pillows, sealant, or otherwise to achieve fire and air-leakage ratings.

1. Fire-rated cable pathway devices are the preferred product for data, video, and communications cable penetrations. Install these devices in locations where frequent cable moves, add-ons, and changes will occur. Such devices must be:
  - a. Capable of retrofit around existing cables.
  - b. Designed so that two or more devices can be ganged together.
  - c. Maintenance-free so no action is required to activate the smoke- and fire-sealing mechanism.
2. Where fire-rated cable pathway devices are not practical, openings within walls and floors designed to accommodate data, video, and communications cabling must be provided with re-enterable products specifically designed for retrofit, such as retrofit devices for cable bundles, firestopping putty, plugs, or pillows.

- N. Retrofit Device for Cable Bundles: Factory-made, intumescent, collar-like device for firestopping existing over-filled cable sleeves and capable of being installed around projecting sleeves and cable bundles.
- O. Wall-Opening Protective Materials: Intumescent, non-curing putty pads or self-adhesive inserts for protection of electrical switch and receptacle boxes.
- P. Fire-Rated HVAC Retaining Angles: Steel angle system with integral intumescent firestopping gasket for use around rectangular steel HVAC ducts without fire dampers.
- Q. Firestopping Plugs: Flexible, re-enterable, intumescent, foam-rubber plug for use in blank round openings and cable sleeves.
- R. Fire-Rated Cable Grommet: Molded two-piece grommet made of plenum-grade polymer and foam inner core for sealing small cable penetrations in gypsum walls up to 1/2 inch in diameter.
- S. Closet Flange Gasket: Molded, single-component, flexible, intumescent gasket for use beneath a water closet (toilet) flange in floor applications.

## 2.6 MIXING

- A. Penetration Firestopping Materials: For those products requiring mixing before application, comply with penetration firestopping system manufacturer's written instructions for accurate proportioning of materials, water (if required), type of mixing equipment, selection of mixer speeds, mixing containers, mixing time, and other items or procedures needed to produce products of uniform quality with optimum performance characteristics for application indicated.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for opening configurations, penetrating items, substrates, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Surface Cleaning: Before installing penetration firestopping systems, clean out openings in accordance with manufacturer's written instructions and with the following requirements:
  - 1. Remove foreign materials from substrate surfaces that could interfere with adhesion of penetration firestopping materials.
  - 2. Clean opening substrates and penetrating items to produce clean, sound surfaces capable of developing optimum bond with penetration firestopping materials. Remove loose particles remaining from cleaning operation.
  - 3. Remove laitance and form-release agents from concrete.
- B. Prime substrates in accordance with penetration firestopping system manufacturer's written installation instructions, using that manufacturer's recommended products and methods. Confine primers to areas of bond; do not allow spillage and migration onto exposed surfaces.

### 3.3 INSTALLATION

- A. General: Install penetration firestopping systems in accordance with manufacturer's written installation instructions and published drawings for products and applications.
- B. Install forming materials and other accessories of types required to support fill materials during their application and in the position needed to produce cross-sectional shapes and depths required to achieve fire ratings indicated.
  - 1. After installing fill materials and allowing them to fully cure, remove combustible forming materials and other accessories not forming permanent components of firestopping.
- C. Install fill materials by proven techniques to produce the following results:
  - 1. Fill voids and cavities formed by openings, forming materials, accessories, and penetrating items to achieve required fire-resistance ratings.
  - 2. Apply materials so they contact and adhere to substrates formed by openings and penetrating items.
  - 3. For fill materials that will remain exposed after completing the Work, finish to produce smooth, uniform surfaces that are flush with adjoining finishes.

### 3.4 IDENTIFICATION

- A. Wall Identification: Permanently label walls containing penetration firestopping systems with the words "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS," using lettering not less than 3 inches high and with minimum 0.375-inch strokes.
  - 1. Locate in accessible concealed floor, floor-ceiling, or attic space at 15 ft. from end of wall and at intervals not exceeding 30 ft..
- B. Penetration Identification: Identify each penetration firestopping system with legible metal or plastic labels. Attach labels permanently to surfaces adjacent to and within 6 inches of penetration firestopping system edge so labels are visible to anyone seeking to remove penetrating items or firestopping systems. Use mechanical fasteners or self-adhering-type labels with adhesives capable of permanently bonding labels to surfaces on which labels are placed. Include the following information on labels:

1. The words "Warning - Penetration Firestopping - Do Not Disturb. Notify Building Management of Any Damage."
2. Contractor's name, address, and phone number.
3. Designation of applicable testing and inspecting agency.
4. Date of installation.
5. Manufacturer's name.
6. Installer's name.

### 3.5 FIELD QUALITY CONTROL

- A. Owner will engage a qualified inspection agency to conduct and report on inspections in accordance with ASTM E2174.
- B. Where deficiencies are found or penetration firestopping system is damaged or removed because of testing, repair or replace penetration firestopping system to comply with requirements.
- C. Proceed with enclosing penetration firestopping systems with other construction only after inspection reports are issued and installations comply with requirements.

### 3.6 CLEANING AND PROTECTION

- A. Clean off excess fill materials adjacent to openings as the Work progresses by methods and with cleaning materials that are approved in writing by penetration firestopping system manufacturers and that do not damage materials in which openings occur.
- B. Provide final protection and maintain conditions during and after installation that ensure that penetration firestopping systems are without damage or deterioration at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, immediately cut out and remove damaged or deteriorated penetration firestopping material and install new materials to produce systems complying with specified requirements.

**END OF SECTION 07 8413**

## SECTION 07 8443 - JOINT FIRESTOPPING

### PART 1 - GENERAL

#### 1.1 SUMMARY

##### A. Section Includes:

1. Intumescent gypsum wall framing gaskets.
2. Perimeter fire-barrier system.
3. Joints in or between fire-resistance-rated construction.
4. Joints at exterior curtain-wall/floor intersections.
5. Joints in smoke barriers.

##### B. Related Requirements:

1. Section 078413 "Penetration Firestopping" for penetrations in fire-resistance-rated walls, horizontal assemblies, and smoke barriers and for wall identification.
2. Section 079513.13 "Interior Expansion Joint Cover Assemblies" for fire-resistive manufactured expansion-joint cover assemblies for interior floors, walls, and ceilings.
3. Section 079513.16 "Exterior Expansion Joint Cover Assemblies" for fire-resistive manufactured expansion-joint cover assemblies for exterior building walls, soffits, and parapets.
4. Section 092216 "Non-Structural Metal Framing" for firestop tracks for metal-framed partition heads.

#### 1.2 PREINSTALLATION MEETINGS

- ##### A. Preinstallation Conference: Conduct conference at Project site.

#### 1.3 ACTION SUBMITTALS

##### A. Product Data:

1. For each type of product.

- ##### B. Unlisted Firestopping Systems: Obtain an Engineering Judgment (EJ) from firestop manufacturer where no UL, FM Approvals, or other listed assembly is available for particular firestop configuration. Follow International Firestop Council (IFC) recommended guidelines for evaluating firestop systems in EJs.

- ##### C. Product Schedule: For each joint firestopping system. Include location, illustration of firestopping system, and design designation of qualified testing agency.

1. Engineering Judgments: Where Project conditions require modification to a qualified testing agency's illustration for a particular joint firestopping system condition, submit illustration, with modifications marked, approved by joint firestopping system manufacturer's fire-protection engineer as an EJ or equivalent fire-resistance-rated assembly developed in accordance with current IFC guidelines.

D. Sustainable Design Submittals:

1. Product Data: For sealants, indicating VOC content.
2. Laboratory Test Reports: For sealants, indicating compliance with requirements for low-emitting materials.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Listed System Designs: For each joint firestopping system, for tests performed by a qualified testing agency.

1.5 CLOSEOUT SUBMITTALS

- A. Installer Certificates: From Installer indicating that joint firestopping systems have been installed in compliance with requirements and manufacturer's written installation instructions.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: A firm that has been approved by FM Approvals in accordance with FM Approvals 4991 or been evaluated by UL and found to comply with UL's "UL Solutions Qualified Firestop Contractor Program."

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Do not install joint firestopping systems when ambient or substrate temperatures are outside limits permitted by joint firestopping system manufacturers or when substrates are wet due to rain, frost, condensation, or other causes.
- B. Install and cure joint firestopping systems in accordance with manufacturer's written installation instructions using natural means of ventilation or, where this is inadequate, forced-air circulation.

1.8 COORDINATION

- A. Coordinate construction of joints to ensure that joint firestopping systems can be installed in accordance with specified firestopping system design.
- B. Coordinate sizing of joints to accommodate joint firestopping systems.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

- A. Obtain joint firestop systems for each type of joint opening indicated from single manufacturer.



## 2.2 PERFORMANCE REQUIREMENTS

### A. Fire-Test-Response Characteristics:

1. A qualified testing agency, acceptable to authorities having jurisdiction, will perform joint firestopping system tests.
2. Test in accordance with testing standards referenced in "Joint Firestopping Systems" Article. Provide rated systems complying with the following requirements:
  - a. Joint firestop systems installed with products bearing the classification marking of a qualified product certification agency in accordance with listed system designs published by a qualified testing agency.
    - 1) UL in its online directory "Product iQ."

- ### B. Rain/Water Resistance:
- For perimeter fire-barrier system applications, where inclement weather or greater-than-transient water exposure is expected, use products that dry rapidly and cure in the presence of atmospheric moisture sufficient to pass ASTM D6904 early rain-resistance test (24-hour exposure).

## 2.3 JOINT FIRESTOPPING SYSTEM TYPES

- ### A. General:
- Systems that resist spread of fire, passage of smoke and other gases, and maintain original fire-resistance rating of assemblies in or between which joint firestopping systems are installed. Joint firestopping systems must accommodate building movements without impairing their ability to resist the passage of fire and hot gases.

1. Joint firestopping systems that are compatible with one another, with the substrates forming openings, and with penetrating items, if any.
2. Provide products that, upon curing, do not re-emulsify, dissolve, leach, break down, or otherwise deteriorate over time from exposure to atmospheric moisture, sweating pipes, ponding water or other forms of moisture.
3. Provide firestop products that do not contain ethylene glycol.

- ### B. Intumescent Gypsum Wall Framing Gaskets:
- Applied to steel tracks, runners, and studs prior to framing installation. Provide products with fire, smoke, and acoustical ratings that allow movement of up to 100 percent compression and/or extension when tested in accordance with UL 2079 or ASTM E1966; have an L Rating of less than 1 cfm/ft. when tested in accordance with UL 2079; and a minimum Sound Transmission Class (STC) rating of 56 when tested in accordance with ASTM E90 or ASTM C919.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - a. CEMCO; California Expanded Metal Products Co.
  - b. International Fireproof Technology Inc
  - c. Specified Technologies Inc.

- ### C. Perimeter Fire-Barrier System:
- Provide perimeter fire-barrier system that does not require direct screw attachment to mullions and transoms to support and fasten curtain-wall insulation for aluminum curtain-wall assemblies with one- or two-piece rectangular mullions at least 2-1/2 by 5 inches. System will be tested in accordance with ASTM E2307 for up to two-hour fire resistance and with ASTM E1233/E1233M for wind cycling equivalent to 108 mph wind for 500

cycles.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - a. CEMCO; California Expanded Metal Products Co.
  - b. Grabber Construction Products, Inc.
  - c. Specified Technologies Inc.
  
- D. Joints in or between Fire-Resistance-Rated Construction: Provide joint firestopping systems with ratings determined in accordance with ASTM E1966 or UL 2079, with published L-Ratings for ambient and elevated temperatures as evidence of the ability of the fire-resistive joint system to restrict the movement of smoke.
  1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. 3M Building and Construction
    - b. CEMCO; California Expanded Metal Products Co.
    - c. Grabber Construction Products, Inc.
    - d. Hilti, Inc.
    - e. Specified Technologies Inc.
  2. Fire-Resistance Rating: Equal to or exceeding the fire-resistance rating of the wall, floor, or roof in or between which it is installed.
  
- E. Joints at Exterior Curtain-Wall/Floor Intersections: Provide joint firestopping systems with rating determined in accordance with ASTM E2307.
  1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. 3M Building and Construction
    - b. Hilti, Inc.
    - c. Specified Technologies Inc.
  2. F-Rating: Equal to or exceeding the fire-resistance rating of the floor assembly.
  
- F. Joints in Smoke Barriers: Provide joint firestopping systems with ratings determined in accordance with UL 2079 based on testing at a positive pressure differential of 0.30 inch wg.
  1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. 3M Building and Construction
    - b. CEMCO; California Expanded Metal Products Co.
    - c. Hilti, Inc.
    - d. Specified Technologies Inc.
  2. L-Rating: Not exceeding 5.0 cfm/ft. of joint at both ambient and elevated temperatures.
  
- G. Exposed Joint Firestopping Systems: Flame-spread and smoke-developed indexes of less than 25 and 450, respectively, as determined in accordance with ASTM E84.

1. Sealant shall comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

## 2.4 ACCESSORIES

- A. Provide components of joint firestopping systems, including primers and forming materials, that are needed to install elastomeric fill materials and to maintain ratings required. Use only components specified by joint firestopping system manufacturer and approved by the qualified testing agency for conditions indicated.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for joint configurations, substrates, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Surface Cleaning: Before installing joint firestopping systems, clean joints in accordance with fire-resistive joint system manufacturer's written installation instructions and the following requirements:
  1. Remove foreign materials from substrate surfaces that could interfere with adhesion of elastomeric fill materials or compromise fire-resistive rating.
  2. Clean joint substrates to produce clean, sound surfaces capable of developing optimum bond with elastomeric fill materials. Remove loose particles remaining from cleaning operation.
  3. Remove laitance and form-release agents from concrete.
- B. Prime substrates in accordance with joint firestopping system manufacturer's written installation instructions, using that manufacturer's recommended products and methods. Confine primers to areas of bond; do not allow spillage and migration onto exposed surfaces.
- C. Apply a suitable bond breaker to prevent three-sided adhesion in applications where condition occurs.

### 3.3 INSTALLATION

- A. General: Install joint firestopping systems in accordance with manufacturer's written installation instructions and published drawings for products and applications indicated.
- B. Install forming materials and other accessories of types required to support elastomeric fill materials during their application and in position needed to produce cross-sectional shapes and depths required to achieve fire ratings indicated.

1. After installing elastomeric fill materials and allowing them to fully cure, remove combustible forming materials and other accessories not indicated as permanent components of fire-resistive joint system.
- C. Install elastomeric fill materials for joint firestopping systems by proven techniques to produce the following results:
1. Apply elastomeric fill in voids and cavities formed by joints and forming materials as required to achieve fire-resistance ratings indicated.
  2. Apply elastomeric fill materials so they contact and adhere to substrates formed by joints.
  3. For elastomeric fill materials that will remain exposed after completing the Work, finish to produce smooth, uniform surfaces that are flush with adjoining finishes.

### 3.4 IDENTIFICATION

- A. Wall Identification: Permanently label walls containing firestopping systems with the words "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS," using lettering not less than 3 inches high and with minimum 0.375-inch strokes.
1. Locate in accessible concealed floor, floor-ceiling, or attic space at 15 ft. from end of wall and at intervals not exceeding 30 ft..
- B. Joint Identification: Identify joint firestopping systems with legible metal or plastic labels. Attach labels permanently to surfaces adjacent to and within 6 inches of joint edge, so labels are visible to anyone seeking to remove joint firestopping system. Use mechanical fasteners or self-adhering-type labels with adhesives capable of permanently bonding labels to surfaces on which labels are placed. Include the following information on labels:
1. The words "Warning - Joint Firestopping - Do Not Disturb. Notify Building Management of Any Damage."
  2. Contractor's name, address, and phone number.
  3. Designation of applicable testing agency.
  4. Date of installation.
  5. Manufacturer's name.
  6. Installer's name.

### 3.5 FIELD QUALITY CONTROL

- A. Owner will engage a qualified testing agency to perform tests and inspections in accordance with ASTM E2393.
- B. Where deficiencies are found or joint firestopping systems are damaged or removed due to testing, repair or replace joint firestopping systems so they comply with requirements.
- C. Proceed with enclosing joint firestopping systems with other construction only after inspection reports are issued and installations comply with requirements.

### 3.6 CLEANING AND PROTECTION

- A. Clean off excess elastomeric fill materials adjacent to joints as the Work progresses by methods and with cleaning materials that are approved in writing by joint firestopping system

manufacturers and that do not damage materials in which joints occur.

- B. Provide final protection and maintain conditions during and after installation that ensure joint firestopping systems are without damage or deterioration at time of Substantial Completion. If damage or deterioration occurs despite such protection, cut out and remove damaged or deteriorated joint firestopping systems immediately and install new materials to produce joint firestopping systems complying with specified requirements.

### 3.7 JOINT FIRESTOPPING SYSTEM SCHEDULE

- A. Where UL-classified systems are indicated, they refer to system numbers in UL's online directory "Product iQ" under product Category XHBN.
- B. Floor-to-Floor, Joint Firestopping Systems: FF-1.
  - 1. UL-Classified Systems: FF-D-1000-1999.
  - 2. Assembly Rating: Two hours.
  - 3. Nominal Joint Width: As indicated.
  - 4. Movement Capabilities: Class II - 10 percent compression or extension.
- C. Wall-to-Wall, Joint Firestopping Systems: WW-1.
  - 1. UL-Classified Systems: WW-D-0000-0999.
  - 2. Assembly Rating: Two hours.
  - 3. Nominal Joint Width: As indicated.
  - 4. Movement Capabilities: Class II - 10 percent compression or extension.
- D. Floor-to-Wall, Joint Firestopping Systems: FW-1.
  - 1. UL-Classified Systems: FW-D-0000-0999.
  - 2. Assembly Rating: Two hours.
  - 3. Nominal Joint Width: As indicated.
  - 4. Movement Capabilities: Class II - 10 percent compression or extension.
- E. Head-of-Wall, Fire-Resistive Joint Firestopping Systems: HW-1.
  - 1. UL-Classified Systems: HW-D-0000-0999.
  - 2. Assembly Rating: Two hours.
  - 3. Nominal Joint Width: As indicated.
  - 4. Movement Capabilities: Class II - 25 percent compression or extension.
  - 5. L-Rating at Ambient: Less than 2.63 cfm/ft..
  - 6. L-Rating at 400 Deg F (204 Deg C): Less than 2.33 cfm/ft..
- F. Bottom-of-Wall, Joint Firestopping Systems: BW-1.
  - 1. UL-Classified Systems: BW-S-0000-0999.
  - 2. Assembly Rating: Two hours.
  - 3. Nominal Joint Width: As indicated.
  - 4. L-Rating at Ambient: Less than 1 cfm/ft..
  - 5. L-Rating at 400 Deg F (204 Deg C): Less than 1 cfm/ft..

**END OF SECTION 07 8443**

## SECTION 07 9200 - JOINT SEALANTS

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:

1. Silicone joint sealants.
2. Nonstaining silicone joint sealants.
3. Urethane joint sealants.
4. Immersible joint sealants.
5. Mildew-resistant joint sealants.
6. Butyl joint sealants.
7. Latex joint sealants.

B. Related Requirements:

1. Section 079219 "Acoustical Joint Sealants" for sealing joints in sound-rated construction.
2. Section 321373 "Concrete Paving Joint Sealants" for sealing joints in paved roads, parking lots, walkways, and curbing.

#### 1.2 ACTION SUBMITTALS

A. Product Data:

1. Silicone joint sealants.
2. Nonstaining silicone joint sealants.
3. Urethane joint sealants.
4. Immersible joint sealants.
5. Mildew-resistant joint sealants.
6. Butyl joint sealants.
7. Latex joint sealants.

B. Samples for Initial Selection: Manufacturer's standard color charts consisting of strips of cured sealants showing the full range of colors available for each product exposed to view.

C. Samples for Verification: For each type and color of joint sealant required, provide Samples with joint sealants in 1/2-inch- wide joints formed between two 6-inch- long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.

D. Joint-Sealant Schedule: Include the following information:

1. Joint-sealant application, joint location, and designation.
2. Joint-sealant manufacturer and product name.
3. Joint-sealant formulation.
4. Joint-sealant color.

E. LEED Submittals:

1. Building Product Disclosure Credit Documentation.
  - a. Environmental Product Declarations
  - b. Embodied Carbon/LCA Optimization Documentation
  - c. Sourcing of Raw Materials Documentation.
    - 1) Provide statement of Material Cost for each product.
  - d. Material Ingredient and Optimization Reports
2. Low-Emitting Materials Credit Documentation for materials internal to weatherproofing envelope.
  - a. VOC Content for paints, coatings, adhesives and sealants wet-applied on site
    - 1) Provide volume used in Liters
  - b. Emissions Evaluation or USGBC-approved Third-Party Certifications and Labels for Low-Emitting Product Categories
    - 1) Provide statement of Material Cost for each product.

### 1.3 CLOSEOUT SUBMITTALS

- A. Manufacturers' special warranties.
- B. Installer's special warranties.

### 1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Authorized representative who is trained and approved by manufacturer.

### 1.5 MOCKUPS

- A. Install sealant in mockups of assemblies specified in other Sections that are indicated to receive joint sealants specified in this Section. Use materials and installation methods specified in this Section.

### 1.6 FIELD CONDITIONS

- A. Do not proceed with installation of joint sealants under the following conditions:
  1. When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F.
  2. When joint substrates are wet.
  3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
  4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

## 1.7 WARRANTY

- A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
  - 1. Warranty Period: Two years from date of Substantial Completion.
- B. Special Manufacturer's Warranty: Manufacturer agrees to furnish joint sealants to repair or replace those joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
  - 1. Warranty Period: Five years from date of Substantial Completion.
- C. Special warranties specified in this article exclude deterioration or failure of joint sealants from the following:
  - 1. Movement of the structure caused by stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression.
  - 2. Disintegration of joint substrates from causes exceeding design specifications.
  - 3. Mechanical damage caused by individuals, tools, or other outside agents.
  - 4. Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Low-emitting Requirements – General: For Paints and Coatings, Adhesives and Sealants, Flooring, Ceiling, Wall Panels, and Insulation products internal to the weatherproofing envelope.
  - 1. VOC Emissions Evaluation: Product must be tested and determined compliant in accordance with California Department of Public Health (CDPH) Standard Method v1.2–2017, using the applicable exposure scenario or comply with USGBC-approved Third-Party Certifications and Labels.
  - 2. VOC Content Requirements for Wet Applied Products: All paints and coatings wet-applied on site must meet the applicable VOC limits of the California Air Resources Board (CARB) 2007, Suggested Control Measure (SCM) for Architectural Coatings, or the South Coast Air Quality Management District (SCAQMD) Rule 1113, effective February 5, 2016.
  - 3. Methylene chloride and perchloroethylene shall not be intentionally added in paints, coatings, adhesives, or sealants.
  - 4. VOC Content Requirements for Wet Applied Products: All adhesives and sealants wet-applied on site must meet the applicable chemical content requirements of SCAQMD Rule 1168, amended October 26, 2017, Adhesive and Sealant Applications, as analyzed by the methods specified in Rule 1168.
  - 5. Methylene chloride and perchloroethylene shall not be intentionally added in paints, coatings, adhesives, or sealants.
  - 6. Do not use adhesives that contain urea formaldehyde.
  - 7. Free of Formaldehyde: Insulation manufactured with 100 percent acrylic binders and no formaldehyde.



## 2.2 SOURCE LIMITATIONS

- A. Obtain joint sealants from single manufacturer for each sealant type.

## 2.3 JOINT SEALANTS, GENERAL

- A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
- B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

## 2.4 SILICONE JOINT SEALANTS

- A. Silicone, S, NS, 100/50, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 100/50, Use NT.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Tremco, Inc., Spectrem 1 or comparable product by one of the following:
    - a. GE Construction Sealants; Momentive Performance Materials Inc.
    - b. Sika Corporation - Building Components

## 2.5 NONSTAINING SILICONE JOINT SEALANTS

- A. Nonstaining Joint Sealants: No staining of substrates when tested in accordance with ASTM C1248.
- B. Silicone, Nonstaining, M, NS, 50, NT: Nonstaining, multicomponent, nonsag, plus 50 percent and minus 50 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type M, Grade NS, Class 50, Use NT.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Tremco, Inc., Spectrem 4-TS or comparable product by one of the following:
    - a. Tremco Incorporated

## 2.6 URETHANE JOINT SEALANTS

- A. Urethane, S, NS, 100/50, T, NT: Single-component, nonsag, plus 100 percent and minus 50 percent movement capability, traffic- and nontraffic-use, urethane joint sealant; ASTM C920, Type S, Grade NS, Class 100/50, Uses T and NT.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Tremco, Inc., Dymonic 100 or comparable product by one of the following:
    - a. Sika Corporation - Building Components

## 2.7 IMMERSIBLE JOINT SEALANTS

- A. Immersible Joint Sealants: Suitable for immersion in liquids; ASTM C1247, Class 1; tested in deionized water unless otherwise indicated.
- B. Urethane, Immersible, S, P, 50, T, NT, I: Immersible, single-component, pourable, plus 50 percent and minus 50 percent movement capability, traffic- and nontraffic-use, urethane joint sealant; ASTM C920, Type S, Grade P, Class 50, Uses T, NT, and I.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Tremco, Inc., Vulkem 45 SSL or comparable product by one of the following:
    - a. Tremco Incorporated

## 2.8 MILDEW-RESISTANT JOINT SEALANTS

- A. Mildew-Resistant Joint Sealants: Formulated for prolonged exposure to humidity with fungicide to prevent mold and mildew growth.
- B. Silicone, Mildew Resistant, Acid Curing, S, NS, 25, NT: Mildew-resistant, single-component, nonsag, plus 25 percent and minus 25 percent movement capability, nontraffic-use, acid-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 25, Use NT.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Tremco, Inc., Tremsil 200 Sanitary or comparable product by one of the following:
    - a. Pecora Corporation
    - b. PPG Paints; PPG Industries, Inc.
    - c. Sika Corporation - Building Components
    - d. The Dow Chemical Company
    - e. Tremco Incorporated

## 2.9 BUTYL JOINT SEALANTS

- A. Butyl-Rubber-Based Joint Sealants: ASTM C1311.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Tremco, Inc., Tremco Butyl Sealant or comparable product by one of the following:
    - a. Bostik; Arkema
    - b. Everkem Diversified Products, Inc.
    - c. Pecora Corporation
    - d. Sika Corporation - Building Components

## 2.10 LATEX JOINT SEALANTS

- A. Acrylic Latex: Acrylic latex or siliconized acrylic latex, ASTM C834, Type OP, Grade NF.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Tremco, Inc., Tremflex 834 or comparable product by one of the following:

- a. Adfast
- b. Everkem Diversified Products, Inc.
- c. Franklin International
- d. Pecora Corporation
- e. PPG Paints; PPG Industries, Inc.
- f. Sherwin-Williams Company (The)
- g. Tremco Incorporated

## 2.11 JOINT-SEALANT BACKING

- A. Cylindrical Sealant Backings: ASTM C1330, Type O (open-cell material), Type B (bicellular material with a surface skin), or any of the preceding types, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.
- B. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

## 2.12 MISCELLANEOUS MATERIALS

- A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
- B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
- C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
  - 1. Remove all foreign material from joint substrates that could interfere with adhesion of

- joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
    - a. Concrete.
    - b. Masonry.
    - c. Unglazed surfaces of ceramic tile.
  3. Remove laitance and form-release agents from concrete.
  4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
    - a. Metal.
    - b. Glass.
    - c. Porcelain enamel.
    - d. Glazed surfaces of ceramic tile.
- B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces.
- C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

### 3.3 INSTALLATION OF JOINT SEALANTS

- A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.
- B. Sealant Installation Standard: Comply with recommendations in ASTM C1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.
- C. Install sealant backings of type indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
  1. Do not leave gaps between ends of sealant backings.
  2. Do not stretch, twist, puncture, or tear sealant backings.
  3. Remove absorbent sealant backings that have become wet before sealant application, and replace them with dry materials.
- D. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.

- E. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
  - 1. Place sealants so they directly contact and fully wet joint substrates.
  - 2. Completely fill recesses in each joint configuration.
  - 3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
  
- F. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants in accordance with requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
  - 1. Remove excess sealant from surfaces adjacent to joints.
  - 2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
  - 3. Provide concave joint profile in accordance with Figure 8A in ASTM C1193 unless otherwise indicated.

### 3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Tests and Inspections:
  - 1. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:
    - a. Extent of Testing: Test completed and cured sealant joints as follows:
      - 1) Perform 10 tests for the first 1000 ft. of joint length for each kind of sealant and joint substrate.
      - 2) Perform one test for each 1000 ft. of joint length thereafter or one test per each floor per elevation.
    - b. Test Method: Test joint sealants in accordance with Method A, Tail Procedure, in ASTM C1521.
      - 1) For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.
    - c. Inspect tested joints and report on the following:
      - 1) Whether sealants filled joint cavities and are free of voids.
      - 2) Whether sealant dimensions and configurations comply with specified requirements.
      - 3) Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. Compare these results to determine if adhesion complies with sealant manufacturer's field-adhesion hand-pull test criteria.
    - d. Record test results in a field-adhesion-test log. Include dates when sealants were

installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion results and percent elongations, sealant material, sealant configuration, and sealant dimensions.

- e. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.
2. Evaluation of Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.
- C. Prepare test and inspection reports.

### 3.5 CLEANING

- A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

### 3.6 PROTECTION

- A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out, remove, and repair damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

### 3.7 JOINT-SEALANT SCHEDULE

- A. Joint-Sealant Application: Exterior joints in horizontal traffic surfaces.
  1. Joint Locations:
    - a. Control and expansion joints in brick pavers.
    - b. Isolation and contraction joints in cast-in-place concrete slabs.
    - c. Joints between plant-precast architectural concrete paving units.
    - d. Joints in stone paving units, including steps.
    - e. Tile control and expansion joints.
    - f. Joints between different materials listed above.
    - g. Other joints as indicated on Drawings.
  2. Joint Sealant: Urethane, M, P, 50, T, NT.
  3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- B. Joint-Sealant Application: Exterior joints in horizontal traffic surfaces subject to water immersion.
  1. Joint Locations:

- a. Joints in pedestrian plazas.
    - b. Joints in swimming pool decks.
    - c. Other joints as indicated on Drawings.
  2. Joint Sealant: Urethane, Immersible, S, P, 50, T, NT, I.
  3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- C. Joint-Sealant Application: Exterior joints in vertical surfaces and horizontal nontraffic surfaces.
1. Joint Locations:
    - a. Construction joints in cast-in-place concrete.
    - b. Joints between plant-precast architectural concrete units.
    - c. Control and expansion joints in unit masonry.
    - d. Joints in dimension stone cladding.
    - e. Joints in glass unit masonry assemblies.
    - f. Joints in exterior insulation and finish systems.
    - g. Joints between metal panels.
    - h. Joints between different materials listed above.
    - i. Perimeter joints between materials listed above and frames of doors windows and louvers.
    - j. Control and expansion joints in ceilings and other overhead surfaces.
    - k. Other joints as indicated on Drawings.
  2. Joint Sealant: Silicone, Nonstaining, M, NS, 50, NT.
  3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- D. Joint-Sealant Application: Interior joints in horizontal traffic surfaces.
1. Joint Locations:
    - a. Isolation joints in cast-in-place concrete slabs.
    - b. Control and expansion joints in stone flooring.
    - c. Control and expansion joints in brick flooring.
    - d. Control and expansion joints in tile flooring.
    - e. Other joints as indicated on Drawings.
  2. Joint Sealant: Urethane, S, NS, 100/50, T, NT.
  3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- E. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces.
1. Joint Locations:
    - a. Control and expansion joints on exposed interior surfaces of exterior walls.
    - b. Tile control and expansion joints.
    - c. Vertical joints on exposed surfaces of unit masonry concrete walls and partitions.
    - d. Joints on underside of plant-precast structural concrete beams and planks.
    - e. Other joints as indicated on Drawings.
  2. Joint Sealant: Urethane, S, NS, 100/50, T, NT.
  3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- F. Joint-Sealant Application: Interior joints in vertical surfaces and horizontal nontraffic surfaces

not subject to significant movement.

1. Joint Locations:
    - a. Control joints on exposed interior surfaces of exterior walls.
    - b. Perimeter joints between interior wall surfaces and frames of interior doors, windows and elevator entrances.
    - c. Other joints as indicated on Drawings.
  2. Joint Sealant: Acrylic latex.
  3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- G. Joint-Sealant Application: Mildew-resistant interior joints in vertical surfaces and horizontal nontraffic surfaces.
1. Joint Locations:
    - a. Joints between plumbing fixtures and adjoining walls, floors, and counters.
    - b. Tile control and expansion joints where indicated.
    - c. Other joints as indicated on Drawings.
  2. Joint Sealant: Silicone, mildew resistant, acid curing, S, NS, 25, NT.
  3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.
- H. Joint-Sealant Application: Concealed mastics.
1. Joint Locations:
    - a. Aluminum thresholds.
    - b. Sill plates.
    - c. Other joints as indicated on Drawings.
  2. Joint Sealant: Butyl-rubber based.
  3. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

**END OF SECTION 07 9200**



## **SECTION 115300 – LABORATORY EQUIPMENT**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. Furnish labor, materials, tools, equipment, and services for Laboratory Equipment in accordance with provisions of Contract Documents.
- B. Completely coordinate with work of other trades.
- C. Section includes:
  - 1. Ice Maker Small
  - 2. Ice Maker Medium
  - 3. Residential Refrigerator Standard Size
  - 4. Residential Refrigerator: Base Cabinet Height/Undercounter
  - 5. Laboratory Refrigerator: Base Cabinet Height/Undercounter
  - 6. Ventless Washer/Dryer Combo Unit
  - 7. Stacked Washer/Dryer Unit
  - 8. Commerical Tray Washer
  - 9. Microwave
  - 10. Coffee Maker
  - 11. Disposers.
  - 12. Single Wall Prefabricated Sound Booth
  - 13. Harness Rail System
  - 14. Ceiling Suspended Sports Net Track
- D. Related Sections:
  - 1. Division 22 – Plumbing
  - 2. Division 23 – Heating, Ventilating, and Air Conditioning
  - 3. Division 26 - Electrical

#### **1.2 UNDIVIDED RESPONSIBILITY**

- A. Unless specified otherwise, because of special coordination requirements, the scope of work described in this Section shall be provided by the supplier of the Section 123553 scope of work.

#### **1.3 REFERENCES**

- A. Standards:
  - 1. ASTM A240: Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Application.
  - 2. ASTM C795 Standard Specification for Thermal Insulation for Use in Contact with Austenitic Stainless Steel.
  - 3. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials.
  - 4. ASME Section VIII, Division 1, Unfired Pressure Vessels Code: for steam coils.
  - 5. UL 1262, as certified by ETL Testing Laboratory Inc.
  - 6. Exception: Units with pH neutralization and detergent monitoring system.
  - 7. Underwriters Laboratory (UL) Standard 508.

8. Underwriters Laboratory (UL) Standard 61010-1.
9. Canadian Standards Association (CSA) Standard C22.2, No. 125.
10. National Electrical Code (NEC), NFPA 70, for clearances at electrical equipment.

B. Regulatory Requirements:

1. Specified products, materials, or systems for Project may include engineering or on file standards required by the Authority Having Jurisdiction or Regulatory Agency.
2. When applicable, comply with:
  - a. Underwriters Laboratory Standards.
  - b. National Electrical Code.

#### 1.4 ACTION SUBMITTALS

A. Product Data:

1. Submit complete materials list, including catalog data and performance data of materials, equipment, and products for work in this Section.

B. LEED Submittals:

1. Building Product Disclosure Credit Documentation.
  - a. Environmental Product Declarations
  - b. Embodied Carbon/LCA Optimization Documentation
  - c. Sourcing of Raw Materials Documentation
    - 1) Provide statement of Material Cost for each product.
  - d. Material Ingredient and Optimization Reports
2. Low-Emitting Materials Credit for materials internal to weatherproofing envelope.
  - a. VOC content for paints, coatings, adhesives, and sealants wet-applied on site.
    - 1) Provide volume used in liters.
  - b. Emissions Evaluation or USGBC- approved third-party certifications and labels for Low-Emitting product categories.
    - 1) Provide statement of material coast for each product.

C. Shop Drawings:

1. Submit complete shop fabrication and installation drawings, including plans, elevations, sections, details, finished and materials dimensions, utility connections and locations, sizes and loads, and schedules.
2. For pit-mounted units, submit manufacturer certified pit drawings within 60 days of Award of Contract from Owner to Contractor.
3. Show relationship to adjoining materials and construction and requisite service, operating and installation clearances (width, depth, and height).
4. Identify connection points, locations, and sizes to building services and systems and locations of floors drains and/or floor sinks.
5. Provide clear identification where equipment requirements deviate from the service/utility provisions identified in the Construction Documents.
6. Verify that component parts and assembly of each item will support superimposed loads, without deflection detrimental to function, appearance, and safety.
7. Provide flow rates, pressure drops, temperature and pressure requirements, voltage, and amperage, etc.
8. Indicate service requirements, loads, and rough-in locations of piped services and electrical connections.

## 1.5 INFORMATIONAL SUBMITTALS

- A. Provide piping, wiring, and/or control diagrams, including connection points and sizes to building services and systems.
- B. Structural Design:
  - 1. Fabrication Engineering and Design: Engage a qualified professional engineer, as defined in Division 1, experienced in seismic design requirements for nonstructural components, to meet the specific performance requirements.
  - 2. Refer to the Structural Documents for the Seismic Design Category (SDC).
  - 3. Permanent Anchorage:
    - a. The following laboratory equipment shall be designed with an Importance Factor of  $I_p = 1.0$  and shall be permanently anchored as required by the Building Code for Seismic Design of Nonstructural Components in buildings with an SDC of C, D, E, or F when included in the scope of work,
      - 1) Ice makers, including fully loaded ice storage bin, weighing less than 400 lbs [181.4kg].
      - 2) Ventless Washer/Dryer Combo
      - 3) Stacked Washer/Dryer.
      - 4) Commercial Tray Washer
  - 4. Seismic Restraint:
    - a. The following laboratory equipment shall be designed with an Importance Factor of  $I_p = 1.0$  and shall be permanently anchored in buildings with an SDC of C, and permanently anchored and seismically restrained as required by the Building Code for Seismic Design of Nonstructural Components in buildings with an SDC of D, E, or F.
      - 1) Ice makers, including fully loaded ice storage bin, weighing 400 lbs [181.4kg] or more.
  - 5. Submission Requirements:
    - a. Submit detailed anchorage and attachment drawings and calculations to show compliance with seismic restraint requirements of applicable building codes.
      - 1) Engineering design shall be performed, signed, and sealed by registered Engineer, licensed to practice structural engineering in the state of the project location.
- C. Statement of installer qualifications.
- D. Notice of factory testing.
  - 1. Manufacturer's installation, start-up, and adjustment instructions.
  - 2. Start-up and field test reports.
  - 3. Demonstration and instruction statement from Owner
  - 4. Material Safety Data Sheets (MSDS).
- E. Closeout Submittals:
  - 1. Operations/Maintenance Manuals:
    - a. Operating and maintenance manuals describing proper operating procedures. Provide in hard copy and electronic formats.
    - b. Maintenance and replacement schedules.
    - c. Components parts list including non-proprietary parts using component manufacturer's parts numbers.
    - d. Closest factory representative for components and service.

2. Start-up reports.
3. Demonstration and instruction report.

## 1.6 QUALITY ASSURANCE

### A. General:

1. Work of this section requires close coordination with work of Division 22 and 26 as well as installation of Owner furnished components and work specified in other Sections.
  - a. Sequence work to assure an orderly progress in the project without removal of previously installed work and to prevent damage to finishes and products.
2. Refer to the Laboratory Equipment Schedule on the drawings.
3. For units serviced with building steam:
  - a. Manufacturer's unit-mounted valves, pressure reducing valves, safety relief valves, strainer, joints, fittings, flanges, unions, and piping shall comply with Division 23.
    - 1) Provide union connections for pipe sizes 1-1/2 inches [38mm] and smaller, and flange connections for pipe sizes 2 inches [51mm] and larger.
  - b. Manufacturer's unit-mounted steam pressure gauges shall be provided with gage cock with siphon loop in compliance with Division 23.
4. Utility Requirements:
  - a. Mechanical and electrical services have been designed for the services and loads as described for individual equipment items herein and identified on the Laboratory Equipment Schedule.
  - b. If a manufacturer's product requires services greater than those indicated, either of type, size, quantity, or quality, that cost shall be borne by the Contractor and cannot be the justification for a change order.

### B. Substitutions:

1. Substitution of products, materials or systems may require additional engineering, testing, reviews, approvals, assurances, or other information for coordination or compliance with Regulatory Agency.
2. Contractor shall provide Agency approvals or other additional information required and pay for additional costs for Architect's services made necessary by the substitution, and with no increase in the Contract Sum or schedule, and as a part of substitution proposal.
3. Costs associated with changes to the building design, including engineering design, detailing, utility and service requirements, and construction caused by the requested substitution will be borne by the Contractor.
4. Substitution shall not affect dimensions shown on Drawings.
5. Substitutions shall have no adverse effect on other trades, the construction schedule, or specified warranty requirements.
6. Maintenance and service parts shall be locally available for the proposed substitution.

### C. Manufacturer's Qualifications:

1. Manufacturer specializing in products specified with minimum ten (10) years' experience.
  - a. Upon request, manufacturers shall produce evidence of financial stability and bonding capacity required to perform on this project.
  - b. Upon request, provide three references of similar installations.
2. Manufacturers shall have established organizations and production facilities necessary for fabrication and manufacture of equipment specified, with skilled personnel, factory trained workmen and an experienced engineering department.

- a. Each shall have the demonstrated knowledge, ability, and the proven capability to produce the specified equipment of the required quality and the proven capacity to complete an installation of this size and type within the required time limits.

D. Installer Qualifications:

1. Installer shall have an established organization including tools, equipment, and special machinery necessary for the installation of equipment specified, with skilled personnel and factory-trained workmen.
  - a. Each shall have the demonstrated knowledge, ability, and the proven capability to install the specified equipment of the required quality and the proven capacity to complete an installation of this size and type within the required time limits.
  - b. Firm specializing in installation of products specified, with minimum five (5) years' experience, and authorized by manufacturer to install product.
  - c. Upon request, provide three references of similar installations.
2. Installer shall have replacement parts, tools, equipment, apparatus, devices, and other items required for normal and emergency maintenance, and employees fully skilled in equipment maintenance, within two (2) hours arriving time of project site.

## 1.7 SOURCE QUALITY CONTROL

A. Factory Testing:

1. Manufacturer shall shop calibrate and field verify instruments.
2. Functional tests shall be performed at the factory for supplied equipment through the PLC by Manufacturer.
3. Manufacturer is responsible for correcting deficiencies identified during shop testing procedures.
4. Test results shall be made available to the Owner upon request.

B. Equipment shall be provided with service identical to those that will be provided on site, including electrical service, and piped services connections, flows, and temperature, as applicable.

C. The manufacturer shall:

1. Issue Factory Acceptance Test protocols and notification to the Owner at least 30 days in advance of scheduled testing for Owner comment and approval.
2. Execute tests and measurements.
3. Analyze test results.
4. Describe deviations in test report and make corrections. Retest/repeat procedures, if required.
5. Check that registered deviations are complete, and documentation is correct.
6. Verify calibration of test equipment.
7. Check the conclusion of the test conformity.
8. Sign test report after completion and submit to Owner.

D. Owner's authorized representative shall have the right to inspect work during and after fabrication completion and shall perform and witness testing.

1. This inspection shall occur at the vendor's manufacturing facility.
2. Facility shall have utilities as required to perform the full testing of the equipment.
3. The representative's decisions to reject material or workmanship for non-compliance with the Specification, Drawings and purchase order shall be final.
4. Owner's representative(s) inspection shall include, but not be limited to the following items:

- a. Manufacturer's adherence to the terms of Purchase Order, particularly in the areas of schedule and required documents.
  - b. Manufacturer's adherence to the Contract Documents, including revisions thereof.
  - c. Manufacturer's adherence to fabrication procedures as mandated by Code, Specifications and Drawings.
  - d. Fabrication within tolerances as established by Code, Specifications, and Drawings, whichever is most stringent.
  - e. Full operation of the equipment including proper functioning of the following items:
    - 1) Controller.
    - 2) Valves.
    - 3) Pumps.
    - 4) Sensors.
    - 5) Alarms.
    - 6) Printers.
    - 7) Safety features.
    - 8) All operational cycles.
    - 9) All other operational components.
5. Overall workmanship of equipment and accessories.
- E. FATs shall include the following:
1. Verification of equipment and scope of delivery.
  2. Verification of the pipe work.
  3. Verification of mechanical installation.
  4. Verification of electrical installation.
  5. Verification of utilities.
  6. Verification of documentation.
  7. Vacuum leak rate test.
  8. Hydrostatic pressure test.
  9. Test protocol run analysis.
- F. Manufacturer shall prepare and maintain a Deviation Tracking List identifying deviations or faults that occur during the FAT.
- G. Acceptance by the Owner's representative shall not relieve the manufacturer of the responsibility for workmanship conforming to the Contract Documents and the Purchase Order.

## 1.8 DELIVERY, STORAGE AND HANDLING

- A. Schedule delivery of laboratory equipment only after wet operations in building are completed.
- B. Provide receiving, distribution, and storage areas of sufficient size and capacity to accommodate crated equipment.
- C. Store laboratory equipment in a ventilated place, protected from the weather, with relative humidity therein of 50 percent or less at 70 Deg. F [21.1 Deg. C].
- D. Protect work of this section before, during and after installation, including the installed work and materials of other trades. Maintain any polyethylene film or other protective covering until start-up.
- E. Any damage resulting from the Work will be replaced, repaired, and restored to original condition to the approval of the Architect at no additional cost or inconvenience to the Owner.

- F. At no time shall personnel use the equipment as a workbench, scaffolding, or other uses.
- G. Protect equipment from debris, paint, and damage during construction.

## **PART 2 - PRODUCTS**

### **2.1 ICE MAKER - SMALL**

- A. Description:
  - 1. Ice flaker with stainless steel auger and storage bin.
- B. Acceptable Manufacturers:
  - 1. Manufacturers:
    - a. Hoshizaki America, Inc.
    - b. Manitowoc.
    - c. Scotsman.
  - 2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Base Product: Scotsman UF1415 with self contained ice bin, with the identified requirements, characteristics, and features as specified herein.
- D. Dimensions: 15 inches wide x 23.7 inches deep x 34 inches high
- E. Finish: Stainless steel with No. 4 finish.
- F. Features/Characteristics:
  - 1. Flaker:
    - a. Ice Producing Capacity, 24 hours: 142 lbs [174kg].
    - b. Compressor Unit: Air-cooled.
    - c. Operating Requirements: Air Temperature: 50 DegF to 110 DegF [10 DegC to 43.3 DegC].
  - 2. Ice Storage Bin Capacity: 310 lbs [141kg].
  - 3. Warranty:
    - a. Warrant parts and labor on flaker for two (2) years and compressor for five years from Date of Substantial Completion.
  - 4. Acrylic plaque with silk-screen letters mounted in plain view on ice storage bin door:
    - a. Dimensions: 5 inches wide x 2-3/4 inches tall [125mm wide by 70mm tall].
    - b. Text: "NONPOTABLE WATER - NOT SAFE FOR DRINKING".
    - c. Text Height: 1/2 inch [13mm] high, minimum.
- G. Utility Requirements: Refer to Laboratory Equipment Schedule.

### **2.2 ICE MAKER - MEDIUM**

- A. Description:
  - 1. Ice flaker with stainless steel auger and storage bin.

- B. Acceptable Manufacturers:
  - 1. Manufacturers:
    - a. Hoshizaki America, Inc.
    - b. Manitowoc.
    - c. Scotsman.
  - 2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Base Product: Scotsman UN324 with self contained ice bin, with the identified requirements, characteristics, and features as specified herein.
- D. Dimensions: 24 inches wide x 28.4 inches deep x 33.5 inches high
- E. Finish: Stainless steel with No. 4 finish.
- F. Features/Characteristics:
  - 1. Flaker:
    - a. Ice Producing Capacity: 340 lbs of flaked ice in 24 hours.
    - b. Compressor Unit: Air-cooled.
    - c. Operating Requirements: Air Temperature: 45 DegF to 90 DegF [7.2 DegC to 32.2 DegC].
  - 2. Ice Storage Bin Capacity: 80 lbs
  - 3. Warranty:
    - a. Warrant parts and labor on flaker for two (2) years and compressor for five years from Date of Substantial Completion.
- G. Utility Requirements: Refer to Laboratory Equipment Schedule.

### **2.3 RESIDENTIAL REFRIGERATOR STANDARD SIZED**

- A. Description: Standard Size Residential Refrigerator
- B. Acceptable Manufacturers
  - 1. GE
  - 2. Frigidaire
  - 3. Samsung
  - 4. LG
  - 5. Miele
  - 6. Kitchen Aid
- C. Base Product: GE Profile 28.7cu ft four door refrigerator in stainless steel with dual-dispense autofill pitcher
- D. Dimensions: 36 inches wide x 36.75 inches deep x 69.875 inches high
- E. Finish: Finger Print Resistant Stainless Steel
- F. Warranty: Limited One year entire appliance
- G. Special Features:
  - 1. Ice Maker



2. Beverage Drawer
3. Internal Water Dispenser with water pitcher
4. Energy Star Rated

H. Utility: Refer to equipment schedule

#### **2.4 RESIDENTIAL REFRIGERATOR BASE CABINET HEIGHT UNDERCOUNTER**

A. Description: Undercounter refrigerator

B. Acceptable Manufacturers:

1. Manufacturers

- a. Avanti
- b. GE
- c. Frigidaire
- d. Whirlpool
- e. Miele

2. Substitutions: Other manufacturers desiring approval comply with Section 012500

C. Base Product: Avanti Retro Series Compact Refrigerator Mini Fridge 3.1 cubic feet, in Black

D. Dimensions: .17.75 inches wide x 19.25 inches deep x 33.75" tall

E. Finish: Black

F. Warranty: Minimum 1 year manufacturer.

G. Utility: Refer to equipment schedule

#### **2.5 LABORATORY REFRIGERATOR BASE CABINET HEIGHT/ UNDERCOUNTER**

A. Description: Undercounter Refrigerator

B. Acceptable Manufacturers:

1. Manufacturers:

- a. ThermoScientific
- b. So-Low
- c. Cole Palmer
- d. Esco

C. Base Product: ThermoScientific Undercounter Refrigerator TSX Series: TSX505GA

D. Dimensions: 23.6 inches wide x 26 inches deep x 31.8 inches high

E. Special Features:

1. +3 to +7C adjustable temperature range
2. Energy Efficient
3. Alarms:
  - a. Power Failure
  - b. High Temperature

- c. Low Temperature
- d. Low Battery
- e. Door Ajar

F. Utilities: Refer to equipment schedule

## 2.6 VENTLESS WASHER/DRYER COMBO UNIT

A. Description: Ventless Heat Pump Technology Washer/Dryer unit

B. Acceptable Manufacturers

1. Manufacturers:

- a. GE
- b. Electrolux
- c. Miele
- d. Speed Queen

2. Substitutions: Other manufacturers desiring approval comply with Section 012500

C. Base Product: GE Profile 4.8 cubic feet capacity UltraFast Combo with Ventless Heat Pump Washer/Dryer in Black Finish; PFQ97HSPVDS

D. Dimensions: 28 inches wide x 32 inches deep x 54 inches tall

E. Finish: Black

F. Special Features:

- 1. Washer and Dryer combination unit.
- 2. Ventless Heat Pump

G. Warranty

- 1. 1 years entire appliance
- 2. 5 year sealed system
- 3. 10 year motor

H. Utility: Refer to Equipment Schedule

## 2.7 STACKED WASHER/DRYER

A. Description: Stacked Washer Dryer Unit

B. Acceptable Manufacturers:

1. Manufacturers:

- a. Speed Queen
- b. Miele
- c. GE
- d. Electrolux

2. Substitutions: Other manufacturers desiring approval comply with Section 012500

C. Base Product: Speed Queen Stacked Electric Washer-Dryer: LTEE5ASP175TW01 in white

finish

- D. Dimensions: 26.875 inches wide x 27.73 inches deep x 78.5 inches tall.
- E. Special Features:
  - 1. Electric Unit
  - 2. 3.2 cu ft washer
  - 3. Front controls located central to unit
  - 4. Energy Star Qualified
- F. Warranty: Minimum 3 Year.
- G. Utility: Refer to Equipment Schedule

## 2.8 COMMERCIAL TRAY WASHER

- A. Description: Commercial Kitchen Tray Washer
- B. Acceptable Manufacturers:
  - 1. Manufacturers
    - a. Hobart
    - b. Noble
    - c. Miele
  - 2. Substitutions: Other manufacturers desiring approval comply with Section 012500
- C. Base Product: Hobart M16VLT ADV Door type Commercial Dishwasher
- D. Dimensions: 30 inches wide x 32.25 inches deep x 68 inches tall
- E. Special Features:
  - 1. Ventless Energy Recovery
  - 2. Wifi Connectivity
  - 3. Door Lock
  - 4. Timed Wash cycles
  - 5. Scrap Screen and Basket system
  - 6. Door Actuated Start
  - 7. Drain Water Tempering Kit
- F. Warranty: One year parts and labor warranty
- G. Utility: Refer to equipment schedule and coordinate with selected manufacturer.

## 2.9 MICROWAVE

- A. Description: 2.0 cu ft Countertop Microwave
- B. Acceptable Manufacturers:
  - 1. GE
  - 2. Maytag
  - 3. Samsung

4. LG
5. Kitchen Aid

- C. Base Product: 24.13 inches wide x 19.25 inches deep x 13.625 inches high
- D. Finish: Stainless Steel
- E. Utility: Refer to equipment schedule and coordinate with selected manufacturer

## 2.10 COFFEE MAKER

- A. Description: 45 Cup Stainless Steel Coffee Urn
- B. Acceptable Manufacturers:
  1. Hamilton Beach
  2. Kitchen Aid
  3. Cuisanart
  4. Bunn
- C. Base Product: Hamilton Beach 45-Cup Stainless Steel Coffee Urn with One-Handed Dispensing model #40519
- D. Dimensions: 11.5 inches wide x 10.5 inches deep x 16.7 inches high
- E. Special Features:
  1. Makes 15-45 cups
  2. Ready to serve indicator light
  3. Twist-lock lid
- F. Utility: Refer to equipment schedule and coordinate with selected manufacturer.

## 2.11 DISPOSERS

- A. Description: Commercial garbage disposer.
- B. Acceptable Manufacturers:
  1. Manufacturers:
    - a. In-Sink-Erator.
    - b. Waste King by Anaheim Manufacturing.
  2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Base Product: In-Sink-Erator Model SS 100, 1 hp [0.74kW] disposer, with the identified requirements, characteristics, and features as specified herein.
- D. Materials:
  1. Grind Chamber: Corrosion-resistant stainless steel.
  2. Shredding Elements: Cast nickel chrome alloy.
- E. Characteristics/Features:
  1. Automatic reversing action switch in stainless steel enclosure for mounting below sink.

2. Syphon breaker to prevent to prevent backflow into water supply pipe.
3. Flow control valve to automatically provide proper amount of water for efficient operation.
4. Solenoid valve to ensure water is in disposer when disposer is operational.
5. Provide support legs when recommended by manufacturer for application.
6. Provide necessary mounting hardware.
7. Provide sink flange assembly for 3-1/2 inch to 4 inch [89mm to 102mm] sink opening. 1-1/2 inch [38mm] waste connection. Coordinate with sink.

F. Utility Requirements: Refer to Laboratory Equipment Schedule.

## **2.12 SINGLE WALL PRE-FABRICATED SOUNDBOOTHS**

A. Description: Prefabricated Audiology Exam Soundbooth

B. Acceptable Manufacturers:

1. ETS-Lindgren
2. O'Neill Engineered Systems
3. Eckel Noise Control Technologies

C. Base Product: Eckel Noise Control Technologies AB Series Minibooth

D. Materials:

1. All steel 2 inch (55mm) thick interlocking panels
2. Polyurethane Enamel finish, color selected by architect. 4x4 color samples to be sent with product submittal.

E. Characteristics/Features:

1. 23 inch X 23 inch double glazed acoustic window
2. In wall 2 inch ventilation system
3. 2 usb ports
4. 8 inch x 1/4 inch phone jacks
5. Vibration isolators
6. Fully demountable cam-lock design
7. Pass-thru
8. Flush mounted door with perimeter magnetic seal.
9. Carpet to match flooring in audiology lab

F. Utility Requirements: Coordinate with manufacturer

## **2.13 CEILING MOUNTED TRACK SYSTEM**

A. Description: Ceiling mounted track system, Oval Track with dual crossover

B. Base Product: Solo Step Ceiling mounted track system, oval track with crossover.

1. Substitutions: Other manufacturers desiring approval comply with Section 012500

C. Materials: Heavy duty commercial grade aluminum alloy extrusion.

D. Accessories:

1. Solo-Step Performance Harness

2. Bariatric Harness
3. Unloading Harness
4. Solo-Step Pediatric harness
5. Spreader Bar
6. Quick Link Carabiners
7. Lanyard
8. Trolley

#### **2.14 CEILING SUSPENDED SPORTS NET TRACK**

- A. Description: Ceiling mounted sport net track.
- B. Acceptable Manufacturers:
  1. Manufacturers
    - a. Akon
    - b. Recmar Products
  2. Substitutions: Other manufacturers desiring approval comply with Section 012500
- C. Basis of Design: Akon Sport Net Track with threaded rod extension and beam clamp
- D. Materials:
  1. 16 gauge hot dipped galvanized steel
  2. Nylon roller hooks
- E. Characteristics/ Features:
  1. Three sided installation
  2. Closed loop rollers
  3. Threaded mounting rods
  4. Beam clamp mounting hardware
  5. 90 degree radius corners
  6. Netting as noted in section 2.15 sports netting for sports net track

#### **2.15 SPORTS NETTING FOR SPORTS NET TRACK**

- A. Description: Safety netting
- B. Acceptable Manufacturers:
  1. Manufacturers
    - a. US Netting
    - b. Just for Nets
    - c. West Coast Netting
  2. Substitutions: Other manufacturers desiring approval comply with Section 012500
- C. Basis of Design: US Netting SN-SQ-21-134, 210lbs strength, Square mesh type.
- D. Characteristics/ Features:
  1. 210lbs strength
  2. Square mesh types
  3. 1.77mm mesh thickness

4. 1.75 inch mesh size
5. #21 twine size

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION**

- A. Site Conditions:
  1. Prior to installation of laboratory equipment, carefully inspect the installed work specified in other Sections and verify that work is complete to the point where this installation may properly commence.
  2. In the event of discrepancy, immediately notify the Architect.
- B. Examine surfaces designated to receive work for conditions that would adversely affect the finished work.
- C. Repair or replace surfaces not meeting tolerances or quality requirements governing substrate construction prior to start of work.
- D. Verify that surfaces, prepared openings, or support structures are ready to receive work.
- E. Verify field measurements and opening dimensions are as instructed by manufacturer.
- F. Inspect and verify that the required utilities are available, in proper locations and ready for use, prior to equipment installation.

#### **3.2 PREPARATION**

1. Coordinate with Divisions 22, 23, 25, and 26 the installation and location of building services for equipment, such as isolation valves, vacuum breakers, fused disconnect switches, and floor drains.
  - a. Ducted ventilation to exterior of building shall slope towards washer with drip legs at low points.
- B. Before shipping, equipment shall be cleaned inside and outside, be free of rust, loose scale, and other deposits.
- C. Finished surfaces shall be protected to prevent shipping and/or storage damage.
- D. All threaded connections, flanges, and couplings shall be protected.
- E. Delivery shall be coordinated so that equipment can be positioned in-place prior to installation of door frames of smaller dimensions and within the proper sequence of construction.
- F. Contractor shall verify the delivery route through building is adequate for equipment.
- G. Equipment shall be securely crated and/or packaged to prevent damage during shipment.
- H. Loose parts shipped inside of the unit shall be secured.
- I. The vendor shall be responsible for delivery of the unit(s) to the job site, setting the equipment in place, unpacking and reassembly.

- J. The vendor shall verify that required utilities are available, in proper locations, and ready for use.
- K. Beginning of installation means acceptance of existing conditions by the vendor.
- L. Upon unpacking of the equipment, the installer shall remove debris, crating material and packaging from the location.
- M. Work required of other sections prior to installation:
  - 1. Provide building service lines supplying specified pressures and flow rates.
  - 2. Install shutoff valves on service lines.
  - 3. Install fused disconnect switches with lockout in OFF position in electric supply lines near the equipment.
  - 4. Provide illumination of service area, with provision of convenience outlet for maintenance.

### 3.3 INSTALLATION

- A. General:
  - 1. Installer shall be responsible for on-site assembly and installation including shipping, unloading, rigging, set-in-place, assembly, leveling, interconnections, hook-up to building utilities, start-up, and testing.
  - 2. Install equipment in accordance with manufacturer's printed instructions and recommendations, and the reviewed submittals.
  - 3. Installation shall be by manufacturer-certified, -approved, -trained, or -provided personnel.
  - 4. Properly align and position equipment.
  - 5. Manufacturer's Field Services: Provide manufacturer's field services to supervise installation.
    - a. Manufacturer's personnel shall be on site prior to installation to inspect field conditions and prepare for installation.
    - b. Installation shall under the direct supervision of the manufacturer's personnel until the completion of initial start up.
- B. Repair or remove and replace defective Work as directed by the Architect upon completion of installation.
- C. Prior to final acceptance by the customer, equipment that has become damaged will be repaired or replaced according to the terms of the warranty and external soiled surfaces will be cleaned.

### 3.4 FIELD QUALITY CONTROL

- A. Start Up Services
  - 1. Test, clean, and adjust equipment and apparatus installed to ensure performance meets specified requirements.
  - 2. Operate each unit and test full range of cycles over a continuous period. Record test data.

### 3.5 ADJUSTING

- A. Adjust and re-test units not meeting requirements.



### **3.6 CLEANING**

- A. Packaging and debris and other waste resulting from installation of equipment shall be removed.
- B. Clean finished equipment, touch up as required and remove and refinish damaged or soiled areas.
- C. Prior to final acceptance by the customer, external soiled surfaces shall be cleaned.
- D. Damage to material due to improper protection shall be cause for rejection.

### **3.7 PROTECTION**

- A. Cover equipment, piping, and controls after installation, to protect against dust and damage until Date of Substantial Completion.
- B. Equipment shall be protected before, during and after installation.
- C. Protect from paint, debris, and damage during construction.
- D. Damage to material due to improper protection shall be cause for rejection.
- E. At no time shall worker use the installed equipment as a work bench, scaffolding, or for other uses.

### **3.8 DEMONSTRATION AND INSTRUCTIONS**

- A. Refer to Section 017900 for equipment specified in Part 2.
- B. Test equipment prior to demonstration. Ensure equipment, including specified accessories, is operational.
- C. Provide demonstration of equipment operation and instruction of Owner's personnel.
- D. Demonstration of operating capability of equipment and systems.
  - 1. Include control and safety features, and service and maintenance procedures.
  - 2. Engage services of a manufacturer-qualified instructor to instruct and train Owner's operating and maintenance personnel in operation, service, and maintenance of equipment.
  - 3. Provide at least two hours of instruction for each type of equipment.

### **3.9 MAINTENANCE SERVICE**

- A. Applicability: List applicable/desired types of equipment].
- B. Furnish routine preventative and emergency maintenance service for two years from final acceptance.
  - 1. Maintenance service shall supplement warranty requirements.
- C. Include periodic examination, adjustment, and maintenance of equipment.

1. Repair or replace worn parts, using only standard parts produced by equipment manufacturer.
  
- D. Furnish 7-day-a-week emergency service during maintenance period, providing maintenance personnel on site within 24 hours, should a shutdown or emergency develop between regular examinations.

**END OF SECTION**

## **SECTION 117200 - EXAMINATION AND TREATMENT EQUIPMENT**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. Furnish labor, materials, tools, equipment, and services for Examination and Treatment Equipment, as indicated, in accordance with provisions of Contract Documents.
- B. Completely coordinate with work of other trades.
- C. Section Includes:
  - 1. Surgical Lights.
  - 2. Health Cubical Curtain and Track Assembly.
  - 3. Patient Headwalls – Single Tier
  - 4. Patient Headwalls – Double Tier
  - 5. Medical Gas Console Outlets.
  - 6. Scrub Stations One Compartment
  - 7. Scrub Stations Two Compartment.
  - 8. Diagnostic Set
  - 9. Ceiling Mounted Patient Lift

#### **1.2 UNDIVIDED RESPONSIBILITY**

- A. Unless specified otherwise, because of special coordination requirements, the scope of work described in this Section shall be provided by the supplier of the Section 123553 scope of work.

#### **1.3 ACTION SUBMITTALS**

- A. Product Data:
  - 1. Describe products specified.
  - 2. Include performance data, rough-in dimensions, mounting details, operating clearances, fan curves, and metal gauges.
  - 3. Identify connection points, locations and sizes to building services and systems.
  - 4. Provide clear identification where equipment requirements deviate from the service/utility provisions identified in the Construction Documents.
- B. LEED Submittals:
  - 1. Building Product Disclosure Credit Documentation.
    - a. Environmental Product Declarations
    - b. Embodied Carbon/LCA Optimization Documentation
    - c. Sourcing of Raw Materials Documentation
      - 1) Provide statement of Material Cost for each product.
    - d. Material Ingredient and Optimization Reports

2. Low-Emitting Materials Credit for materials internal to weatherproofing envelope.
  - a. VOC content for paints, coatings, adhesives, and sealants wet-applied on site.
    - 1) Provide volume used in liters.
  - b. Emissions Evaluation or USGBC- approved third-party certifications and labels for Low-Emitting product categories.
    - 1) Provide statement of material coast for each product.
- C. Shop Drawings:
  1. Submit complete shop fabrication and installation drawings, including plans, elevations, sections, finished and materials dimensions, utility connections and locations, sizes and loads, and schedules.
  2. Show relationship to adjoining materials and construction and requisite service, operating and installation clearances.
  3. Identify connection points, locations and sizes to building services and systems.
  4. Provide flow rates, pressure drops, temperature and pressure requirements, voltage and amperage, etc.
  5. Identify where equipment requirements deviate from service/utility provisions identified in the Construction Documents.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Project Information:
  1. Provide piping, wiring, and/or control diagrams, including connection points and sizes to building services and systems.
- B. Structural Design:
  1. Fabrication Engineering and Design: Engage a qualified professional engineer, as defined in Division 1, experienced in seismic design requirements for nonstructural components, to meet the specific performance requirements.
  2. Refer to the Structural Documents for the Seismic Design Category (SDC).
  3. Permanent Anchorage:
    - a. The following examination and treatment equipment shall be designed with an Importance Factor of  $I_p = 1.0$  and shall be permanently anchored as required by the Building Code for Seismic Design of Nonstructural Components in buildings with an SDC of C, D, E, or F,
      - 1) Single and double station scrub sinks.
  4. Seismic Restraint:
    - a. The following examination and treatment equipment shall be designed with an Importance Factor of  $I_p = 1.0$  and shall be permanently anchored in buildings with an SDC of C, and shall be permanently anchored and seismically restrained as required by the Building Code for Seismic Design of Nonstructural Components in buildings with an SDC of D, E, or F.
      - 1) Surgical lights.
  5. Submission Requirements:
    - a. Submit detailed anchorage and attachment drawings and calculations to show compliance with seismic restraint requirements of applicable building codes.
      - 1) Engineering design shall be performed, signed and sealed by registered Engineer licensed to practice structural engineering in the state of the

project location.

C. Contract Closeout Information:

1. Certificates: Medical Gas Console. Provide Certificate of Compliance with NFPA Standard 99.
2. Demonstration and Instruction Statement from Owner.
3. Operations/Maintenance Manuals:
  - a. Accompanying certification, submit for Architect's review and Owner's use.
  - b. Operating and maintenance manuals that describe proper operating procedures. Provide in hard copy and electronic formats.
  - c. Maintenance and replacement schedules.
  - d. Component parts list.
  - e. Wiring diagrams.
  - f. Closest factory representative for components and service.

## 1.5 QUALITY ASSURANCE

A. Manufacturer's Qualifications:

1. Manufacturer shall specialize in manufacture of products specified herein with minimum ten years of experience.
2. Manufacturers for work in this section shall have established organizations and production facilities including tools, equipment and special machinery necessary for the fabrication and installation of the type of equipment specified, with skilled personnel, factory trained workmen and an experienced engineering department.
3. Each shall have the demonstrated knowledge, ability and the proven capability to produce the specified equipment of the required quality and the proven capacity to complete an installation of this size and type within the required time limits.
4. Upon request, manufacturers shall produce evidence of financial stability and bonding capacity required to perform on this project.
5. Upon request, manufacturer shall three references of similar installations.

B. Installer Qualifications:

1. Installer for work in this section shall have an established organization including tools, equipment and special machinery necessary for the installation of the type of equipment specified, with skilled personnel and factory-trained workmen.
2. Each shall have the demonstrated knowledge, ability and the proven capability to install the specified equipment of the required quality and the proven capacity to complete an installation of this size and type within the required time limits.
3. Firm specializing in installation of products specified, with minimum five years' experience, and authorized by manufacturer to install product.
4. Upon request, installer shall provide three references of similar installations.
5. Installer shall have replacement parts, tools, equipment, apparatus, devices and other items required for normal and emergency maintenance, and employees fully skilled in equipment maintenance, within 2 hours arriving time of project site.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect work before, during and after installation including installed work and materials of other trades. Maintain protective covering until start-up.

- B. Deliver laboratory equipment after wet operations in building are complete.
- C. Equipment shall be stored in a ventilated area, protected from weather, with relative humidity of 50 percent or less at 70 degrees F [21degC].
- D. At no time shall worker use the installed equipment as a work bench, scaffolding, or for other uses.

## 1.7 MAINTENANCE MATERIALS

- A. Provide one set of replacement lamps in addition to initial set for:
  - 1. Surgical/examination lights.

## PART 2 - PRODUCTS

### 2.1 SURGICAL LIGHTS

- A. Description: LED surgical light fixture.
  - 1. Lightheads:
    - a. Single.
    - b. Dual.
- B. Acceptable Manufacturers:
  - 1. Manufacturers:
    - a. Stryker Berchtold.
    - b. Getinge Inc.
    - c. Philips Burton.
    - d. Skytron.
    - e. Steris Corporation.
  - 2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Base Product: Stryker SLX628 satisfying the identified requirements, characteristics, and features as specified herein.
- D. Performance Standards:
  - 1. UL/IEC Standard 60601-1: Medical Electrical Equipment, General Requirements for Safety.
  - 2. UL/IEC Standard 60601-2-41: Medical Electrical Equipment: Particular requirements for the basic safety and essential performance of surgical luminaires and luminaires for diagnosis.
- E. Features and Characteristics:
  - 1. Light source: Light emitting diode (LED). Quantity: 88.
    - a. Light Level: 125,000 lux.
    - b. Color Rendering Index (CRI): 96.

- c. Color Temperature: Selectable
    - 1) 3600 degK.
    - 2) 4500 degK.
    - 3) 5000 degK.
  - d. Light Field Diameter: 7.48 inches to 11.81 inches [190mm to 300mm].
  - e. Depth of Illumination: 35 inches to 59 inches [889mm to 1498mm].
  - f. Intensity Control: 10 to 100 percent.
  - g. Consistent light output during power supply variations.
  - h. Integral driver.
2. Control Panel:
- a. Wall mounted keypad.
    - 1) On/off.
    - 2) Light intensity.
    - 3) Light field size.
    - 4) Color selection.
    - 5) Optional lights if specified.
    - 6) Controls shall synchronize multiple lightheads, when specified.
3. Lighthead: Design that allows positioning from various positions and without handling preference.
- a. Material:
    - 1) Impact-resistant polymer.
    - 2) Lens: Medical grade safety glass.
  - b. Diameter: 25.5 inches [647mm].
  - c. Perimeter Rail: For lighthead adjustment; designed for easy cleaning.
  - d. Handle: Removable for sterilization.
    - 1) Disposable sleeves shall be available.
    - 2) Light field adjustment by manipulating handle. Audible beeps shall indicate adjustment to light field.
  - e. Movement: Turn, swivel and tilt.
  - f. Control:
    - 1) Touch panel for easy cleaning with the following controls:
      - a) On/off.
      - b) Light intensity.
      - c) Light field size.
      - d) Color selection.
      - e) Optional lights if specified.
    - 2) Controls shall synchronize multiple lightheads, when specified.
  - g. Camera-ready.
4. Arm:
- a. Arms shall be supported from a vertical spindle.
  - b. Design: Double arm, designed to prevent drifting.
    - 1) Spring Arm: 35-1/2 inches [900mm], minimum.
      - a) Vertical Travel: 46 inches [1168mm], maximum, with ability to set limits.
    - 2) Cantilever Arm: 23-1/2 inches to 78 inches [600mm to 2000mm]. Refer to Drawings for length.

- 3) Cardanic Yokes:
  - a) Single.
- c. Rotation: 360 degrees.
5. Mounting: Ceiling mounted.
  - a. Provide ceiling tube with canopy with power supply.
6. Seismic Attachment:
  - a. Mounting shall be designed to comply with Seismic Zone 3 and 4 requirements.
7. Guidelight:
  - a. Downward light mounted on vertical post to illuminate instrument table during dimmed conditions.
8. Booms:
  - a. Provide all-electric brakes.
  - b. Provide 360 degree rotation.
  - a. Monitor Support Arm:
    - 1) For up to 26 inch [660mm] diagonal monitor(s).
    - 2) Mounting shall support one or two monitors.
    - 3) VESA patterns 75 x 75mm or 100 x 100mm.
    - 4) Provide one monitor boom with wide swivels and tilt ranges.
  - a. VPA (Video/Power Arm):
    - 1) For connection of external equipment.
    - 2) Head:
      - a) Two 20A circuits.
      - b) Three duplex receptacles, NEMA 5-20R.
      - c) Three standard video plate cutouts.
  - b. Physiological and Vitals Mount:
    - 1) For physiological and vital monitor.
9. Camera:
  - a. Description: Wireless in-light camera.
  - b. Resolution: Native 1080i.
  - c. Lens: 10x optical zoom (.20 to 2.00 inches [5 to 51mm]).
  - d. Sensor: 1/3 inch [8.5mm] CMOS, 2 megapixels.
  - e. Transmission from Camera to Controller: Wireless, N Band.
  - f. Image Rotation: 360 degrees.
  - g. Focus: Automatic or Manual.
  - h. Control Unit: Rack-mount compatible.
  - i. Standard Outputs: DVI, HD-SDI.
10. Power Requirements: 120V.

## 2.2 HEALTH CUBICLE CURTAIN AND TRACK ASSEMBLY

### A. Description:

1. Provide nylon mesh reinforced, fire resistant, antibacterial, self-sanitizing, fluid proof, and



- tear resistant cubicle curtain.
2. Products specified in this section shall be the provided by a single manufacturer.
- B. Acceptable Manufacturers:
1. Manufacturers:
    - a. Maharam
    - b. Construction Specialties, Inc.
    - c. Clickeze by InPro Corporation.
    - d. Cubicle Curtain Factory.
  2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Base Product: C/S Hospital Curtain Track System and Maharam Cubicle Curtains, or equivalent, satisfying the identified requirements, characteristics, and features as specified herein.
- D. Performance Requirements:
1. Flame Resistance: Fabric shall be flame resistant.
    - a. Submit independent test results for NFPA 701 testing.
- E. Components:
1. Curtain Top:
    - a. Material: White Nylon mesh with 1/2 inch [13mm] holes.
    - b. Dimension: Not less than 20 inches [510mm] wide.
    - c. Fabrication: Overlap seams and double-lock stitch to body of curtain.
  2. Curtain:
    - a. Material: 100 percent flame-resistant polyester, inherently stain resistant.
    - b. Dimensions:
      - 1) Width: Equal to track length plus 10 percent, but not less than 12 inches [305mm].
      - 2) Length: Equal to floor-to-ceiling height minus 20 inches [510mm] for curtain top, and 12 to 15 inches [305mm to 380mm] for floor clearance.
      - 3) Top Hem: Between 1 to 1-1/2 inches [25mm to 40mm] wide, triple thickness, reinforced with integral web and double stitched.
      - 4) Bottom and Side Hems: 1 inch [25mm] wide, minimum, reinforced, triple thickness, single stitched.
      - 5) Seams: 1/2 inch [13mm] wide, minimum, double turned, double stitched.
    - c. Fabrication:
      - 1) Top Hem: Provide two-piece, rolled edge, rust-proof, nickel-plated brass, spaced at 6 inches [150mm] on center.
      - 2) Tieback: Provide at each termination.
    - d. Color/Pattern: White mesh, white top of curtain fades into blue. Blue color matched to Sherwin Williams SW9178 "In the Navy".
  3. Track Assembly:
    - a. Material: Channel track: Extruded aluminum alloy.
    - b. Dimensions: 1-3/8 inch by 3/4 inch [35mm by 19mm].
    - c. Fabrication:

- 1) Provide in configuration as shown on the Laboratory Furnishings drawings.
  - 2) Secure track no more than 3 feet [915mm] on center to structural support provided above the ceiling.
4. Carriers:
- a. Material: Roller Carriers: Virgin nylon wheels.
  - b. Fabrication: Provide one carrier for each curtain grommet.
5. Auxiliary Materials:
- a. Bead Chain: Stainless steel or nickel-plated brass.
  - b. Hooks: Hard anodized aluminum or nickel-plated brass.

### 2.3 PATIENT ROOM HEADWALL – SINGLE TIER

- A. Description:
1. Single Tier recessed patient headwall with medical gas and electrical outlets.
- B. Acceptable Manufacturers:
1. Manufacturers:
    - a. Amico Corp
    - b. Hill-Rom
    - c. HSI
    - d. Herman Miller
  2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Basis of Design: Amico Recessed Majestic Series Horizontal Headwall System, HW00-01T-P-R060. Plastic laminate to be PL-01 Wilsonart HPL Chemsurf Woodgrain Laminate, "Walnut Heights" 7968-38.
- D. Materials:
1. Enclosure: Extruded, anodized aluminum alloy with integrated accessory rail.
  2. Fascia: Aluminum strips with high pressure, chemically resistant laminate.
  3. Covers and Endcaps: Powder coated extruded aluminum.
- E. Electrical:
1. Wiring: Wire for standard and critical branch power circuits shall be #10 or #12 (as specified) type THHN stranded copper wire, 600 volt, with heat resistant thermoplastic insulation for hot (black) and neutral (white). Grounds shall be #10 type R THHN stranded copper wire (green). All ground conductors shall be installed in conduit.
  2. Grounding and Bonding: Each power receptacle shall have a ground conductor connected to a grounding screw. A grounding bus will be installed in each device location.
  3. Receptacles: Shall be Hospital Grade 15 or 20 amp, 120 or 277 volt, UL listed and marked Hospital Grade. Quantity and type as shown on drawings. Manufacturer shall furnish and install receptacles with wiring required, as shown on submittal shop drawings. Electrical contractor shall insure compatibility of plug on accessory equipment to be used with these devices:

- a. Duplex Receptacles shall be NEMA style 5-15R or 5-20R, finish to match covers and endcaps for use on normal power circuits, and color Red for use on critical branch power circuits.
  - b. Simplex Receptacles shall be NEMA style 5-15R or 5-20R, finish to match covers and endcaps for use on normal power circuits, and color Red for use on critical branch power circuits.
- F. Utilities: refer to Headwall Types schedule on drawings to coordinate required utilities per headwall type.

## 2.4 PATIENT ROOM HEADWALL – DOUBLE TIER

- A. Description:
1. Double Tier recessed patient headwall with medical gas and electrical outlets.
- B. Acceptable Manufacturers:
1. Manufacturers:
    - a. Amico Corp
    - b. Hill-Rom
    - c. HSI
    - d. Herman Miller
  2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Basis of Design: Amico Recessed Majestic Series Horizontal Headwall System, HW00-02T-P-R060. Plastic laminate to be PL-01 Wilsonart HPL Chemsurf Woodgrain Laminate, "Walnut Heights" 7968-38.
- D. Materials:
1. Enclosure: Extruded, anodized aluminum alloy with integrated accessory rail.
  2. Fascia: Aluminum strips with high pressure, chemically resistant laminate.
  3. Covers and Endcaps: Powder coated extruded aluminum.
- E. Electrical:
1. Wiring: Wire for standard and critical branch power circuits shall be #10 or #12 (as specified) type THHN stranded copper wire, 600 volt, with heat resistant thermoplastic insulation for hot (black) and neutral (white). Grounds shall be #10 type R THHN stranded copper wire (green). All ground conductors shall be installed in conduit.
  2. Grounding and Bonding: Each power receptacle shall have a ground conductor connected to a grounding screw. A grounding bus will be installed in each device location.
  3. Receptacles: Shall be Hospital Grade 15 or 20 amp, 120 or 277 volt, UL listed and marked Hospital Grade. Quantity and type as shown on drawings. Manufacturer shall furnish and install receptacles with wiring required, as shown on submittal shop drawings. Electrical contractor shall insure compatibility of plug on accessory equipment to be used with these devices:

- a. Duplex Receptacles shall be NEMA style 5-15R or 5-20R, finish to match covers and endcaps for use on normal power circuits, and color Red for use on critical branch power circuits.
  - b. Simplex Receptacles shall be NEMA style 5-15R or 5-20R, finish to match covers and endcaps for use on normal power circuits, and color Red for use on critical branch power circuits.
- F. Utilities: refer to Headwall Types schedule on drawings to coordinate required utilities per headwall type.

## 2.5 MEDICAL GAS CONSOLE OUTLETS

- A. Description:
- 1. Wall mounted medical gas console outlets, satisfying the identified requirements, characteristics, and features as specified herein.
- B. Acceptable Manufacturers:
- 1. Manufacturers:
    - a. Amico Corp.
    - b. Hill-Rom
    - c. HSI
    - d. Beacon.
    - e. Chemetron by Allied Healthcare Products Inc.
  - 2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Performance Requirements:
- 1. Manufacture items in accordance with applicable NFPA and CGA standards.
  - 2. Design finishing assembly in accordance with CGA V-5 Standard for Diameter Index Safety System (D.I.S.S.).
  - 3. UL listed.
  - 4. Physical Performance:
    - a. Outlets shall have less than 3 psi [21kPa] pressure drop through the outlet at 120l/min and 50 psig [345kPa] inlet pressure
    - b. Positive Pressure Gas Outlets: Provide primary and secondary check valves.
      - 1) Secondary check valve shall be rated for 200 psi [1379kPa], allowing primary check valve to be removed for service without isolating the entire zone.
  - 5. Certification: After installation, provide pipeline system check in accordance with NFPA Standard 99.
- D. Components:
- 1. Back body:
    - a. Back body shall be gas specific by means of indexing pin arrangement to prevent accidental installation into a roughing assembly of dissimilar gas.
    - b. Back body shall accommodate up to a 3/4 inch [19mm] plate.
    - c. Piping: Provide 6-1/2 inch [165mm] long, 1/2 inch [13mm] outside diameter Type

- “K” copper pipe stub (pigtail) brazed to the outlet body.
          - d. Pigtail: Capable of 360 degree rotation.
          - e. Mounting:
            - 1) Provide mounting flanges on at least two sides.
            - 2) Mount outlets at 42 inches [1065mm] above finished floor.
          - f. Refer to Drawings for quantities and combinations.
2. Front identification plate:
  - a. Material:
    - 1) Face Plate: Stainless steel.
    - 2) Cover Plate: Die-cast.
      - a) Finish: Chrome plated cover plate with two color-coded areas: one imprinted with gas service name, the other surrounding threaded barrel.
  - b. Outlet: DISS (Diameter Index Safety System) type outlet.
    - 1) Compressed Air: #261000-14.
    - 2) Mock Oxygen: #261000-2.
    - 3) Vacuum: #261000-6.
3. Fabrication: Provide double seal to automatically engage when a hose adaptor or patient treatment device is removed from outlet.

## 2.6 SCRUB STATION ONE COMPARTMENT

- A. Description:
  - 1. Scrub station used for pre-operative surgical scrubbing of hands and arms.
  - 2. Compartments:
    - a. One compartment.
- B. Acceptable Manufacturers:
  - 1. Manufacturers:
    - a. Just MFG
    - b. Steris Corporation.
    - c. Getinge Inc.
  - 2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Base Product:
  - 1. Just Mfg Stainless steel wall hung single bowl surgeon scrub kit; JKS7701-NP-J Steris, or equivalent, satisfying the identified requirements, characteristics, and features as specified herein.
- D. Components:
  - 1. Washing compartment:
    - a. Materials: Type 302 and Type 304 stainless steel.
    - b. Thickness: 16 gauge [1.6mm].
    - c. Finish, exposed surfaces: Glass beaded, matte finish.

- d. Fabrication:
  - 2. Skirt:
    - a. Materials: Type 304 stainless steel.
    - b. Thickness: 16 gauge [1.6mm].
    - c. Finish: No. 4 finish.
  - 3. Fabrication:
    - a. Stainless steel shall be continuously welded and ground smooth.
    - b. Inside corners shall be coved.
    - c. Underside of wash compartment shall have sound-deadening coating.
    - d. The bottom of the compartment shall be formed to reduce splashing and the flush soil away from user.
    - e. Plumbing hardware shall include chromium-plated brass strainer with gasket, tailpiece and nut.
- E. Features:
- 1. Provide wall-mounted, knee-operated liquid soap dispenser for each compartment. Dispenser shall have air intake feature to prevent dripping.
  - 2. Plumbing Fixtures:
    - a. Furnish a gooseneck spout with a removable “rose” spray head to provide controlled water-spray coverage for each compartment.
    - b. Provide thermostatically controlled mixing valve for water temperature up to 115 degrees F [46degC].
      - 1) Heavy, cast brass mixing valve with chrome-plated operating handle.
      - 2) Mixing valve shall compensate for temperature fluctuations induced by water temperature and pressure changes.
      - 3) Valve shall shut off flow of hot water if temperature rises above 115 degrees F [46degC].
    - c. Provide knee-operated water control for each compartment.
      - 1) Mechanical water valve shall control water flow.
      - 2) Flow activated by depressing panel.
      - 3) Flow shall continue until panel is depressed a second time to close the valve and stop flow.
  - 3. Mounting: Provide wall hanger brackets for mounting to concrete or concrete masonry unit construction, or chair carrier for mounting on framed wall construction.

## 2.7 SCRUB STATION TWO COMPARTMENT

- A. Description:
- 1. Scrub station used for pre-operative surgical scrubbing of hands and arms.
  - 2. Compartments:
    - a. Two compartment.
- B. Acceptable Manufacturers:
- 1. Manufacturers:
    - a. Just MFG

- b. Steris Corporation.
  - c. Getinge Inc.
- 2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Base Product:
  - 1. Just Mfg Stainless steel wall hung double bowl surgeon scrub kit; JKS7702-NP-J Steris, or equivalent, satisfying the identified requirements, characteristics, and features as specified herein.
- D. Components:
  - 1. Washing compartment:
    - a. Materials: Type 302 and Type 304 stainless steel.
    - b. Thickness: 16 gauge [1.6mm].
    - c. Finish, exposed surfaces: Glass beaded, matte finish.
    - d. Fabrication:
  - 2. Skirt:
    - a. Materials: Type 304 stainless steel.
    - b. Thickness: 16 gauge [1.6mm].
    - c. Finish: No. 4 finish.
  - 3. Fabrication:
    - a. Stainless steel shall be continuously welded and ground smooth.
    - b. Inside corners shall be coved.
    - c. Underside of wash compartment shall have sound-deadening coating.
    - d. The bottom of the compartment shall be formed to reduce splashing and the flush soil away from user.
    - e. Plumbing hardware shall include chromium-plated brass strainer with gasket, tailpiece and nut.
- E. Features:
  - 1. Provide wall-mounted, knee-operated liquid soap dispenser for each compartment. Dispenser shall have air intake feature to prevent dripping.
  - 2. Plumbing Fixtures:
    - a. Furnish a gooseneck spout with a removable "rose" spray head to provide controlled water-spray coverage for each compartment.
    - b. Provide thermostatically controlled mixing valve for water temperature up to 115 degrees F [46degC].
      - 1) Heavy, cast brass mixing valve with chrome-plated operating handle.
      - 2) Mixing valve shall compensate for temperature fluctuations induced by water temperature and pressure changes.
      - 3) Valve shall shut off flow of hot water if temperature rises above 115 degrees F [46degC].
    - c. Provide knee-operated water control for each compartment.
      - 1) Mechanical water valve shall control water flow.
      - 2) Flow activated by depressing panel.
      - 3) Flow shall continue until panel is depressed a second time to close the valve and stop flow.

3. Mounting: Provide wall hanger brackets for mounting to concrete or concrete masonry unit construction, or chair carrier for mounting on framed wall construction.

## **2.8 DIAGNOSTIC SET**

- A. Description: Wall Mounted medical diagnostic set
- B. Basis of Design: Welch-Allyn 777 Green Series MacroView Basic LED Otoscope & PanOptic Basic LED Ophthalmoscope
  1. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Components:
  1. LED Otoscope
  2. PanOptic Basic LED Ophthalmoscope
  3. Blood Pressure Aneroid
  4. SureTemp Plus Thermometer
  5. Mounting Bracket
  6. Ear specula dispenser

## **2.9 CEILING MOUNTED PATIENT LIFT**

- A. Description: Ceiling Mounted lifting motor.
- B. Acceptable Manufacturers:
  1. Manufacturers:
    - a. Guldman
    - b. Amico
    - c. Hillrom
  2. Substitutions: Other manufacturers desiring approval comply with Section 012500.
- C. Base Product: Guldman gh3 Lifting Module
- D. Features:
  1. Max capacity of 440lbs
  2. Automatic on/off
  3. Emergency Stop
- E. Utilities: Coordinate with selected manufacturer

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Prior to installation of examination and treatment equipment, carefully inspect the installed work specified in other Sections and verify that work is complete to the point where this installation



may properly commence.

- B. In the event of discrepancy, immediately notify the Architect.
- C. Examine surfaces designated to receive work for conditions that would adversely affect the finished work. Repair or replace surfaces not meeting tolerances or quality requirements governing substrate construction prior to start of work.
- D. Verify that surfaces, prepared openings, or support structures are ready to receive the work.
- E. Verify field measurements and opening dimensions are as instructed by manufacturer.
- F. Inspect and verify that required utilities are available, in proper locations and ready for use prior to equipment installation.

### **3.2 PREPARATION**

- A. Coordinate with Divisions 22, 23 and 26 for location, size, and type of mechanical, power and communications services required.
- B. Before shipping, equipment shall be cleaned inside and outside, be free of rust, loose scale, and other deposits. Finished surfaces shall be protected to prevent shipping and/or storage damage. Threaded connections, flanges, and couplings shall be protected.
- C. Equipment to be disassembled before shipment to allow for rigging through a 72 inch wide by 84 inch high [1825mm wide by 2130mm high] door frame at the job site. Delivery shall be coordinated so that equipment can be positioned in-place prior to installation of door frames of smaller dimensions, as is necessary.
- D. Equipment shall be securely crated and/or packaged to prevent damage during shipment. Loose parts shipped inside of the unit shall be secured.
- E. The vendor shall be responsible for delivery of the unit to the job site, setting the equipment in place, unpacking and reassembly.
- F. The vendor shall verify that required utilities are available, in proper locations, and ready for use.
- G. Beginning of installation means acceptance of existing conditions by the vendor.
- H. Upon unpacking of the equipment, the vendor shall remove debris, crating material and packaging from the location.

### **3.3 INSTALLATION**

- A. General:
  - 1. Equipment shall be installed by personnel approved by the manufacturer.
  - 2. Install equipment in accordance with the manufacturer's recommendations and reviewed submittals.
  - 3. Properly align and position equipment.
  - 4. Repair or remove and replace defective Work as directed by Architect.

**3.4 ADJUSTING**

- A. Damage to material due to improper protection shall be cause for rejection.

**3.5 CLEANING**

- A. Remove packaging and debris and other waste resulting from installation of equipment.
- B. Clean equipment after installation is complete, touch up as required, and remove and refinish damaged or soiled areas, as required.
- C. Prior to final acceptance by the customer, external soiled surfaces shall be cleaned.

**3.6 PROTECTION**

- A. Protect equipment before, during, and after installation. Damaged materials due to improper protection shall be cause for rejection.

**3.7 DEMONSTRATION**

- A. Refer to Section 017900.
- B. Test equipment prior to demonstration. Ensure equipment, including specified accessories, is operational.
- C. Provide demonstration of equipment operation and instruction of Owner's personnel.
- D. Demonstrate operating capability of equipment and systems.
- E. Include control and safety features, and service and maintenance procedures.

**END OF SECTION**

## **SECTION 20 3140 - TESTING, BALANCING, LUBRICATION AND ADJUSTMENTS**

### **1. GENERAL**

- A. The General Conditions, Instructions to Bidders, Section 200100, and other Contract Documents are a part of this specification and shall be binding on all Mechanical Contractors. It shall be each Contractor's responsibility to apprise himself of all information pertinent to his work prior to submitting his proposal. No adjustments will be made in this Contract which is a result of failure to comply with this requirement.
- B. The Engineer, or his authorized representative, shall be notified by the Contractor twenty-four (24) hours in advance of any tests called for in these specifications or required by others. Any leaks or imperfections found shall be corrected and a new test run to the satisfaction of the Engineer or his authorized representative. Upon completion of a test, a written approval of that part of the work will be given to the Contractor. Only after written approval, signed by the Engineer, shall the Contractor apply insulation or paint or allow his work to be furred-in. This written approval, however, does not relieve the Contractor of the responsibilities for any failure during the guarantee period. The expense of all tests shall be borne by the Contractor, along with all temporary equipment, materials, gauges, etc. required for tests.

### **2. PLUMBING**

- A. Piping shall be tested before being insulated or concealed in any manner. Where leaks or defects develop, required corrections shall be made and tests repeated until systems are proven satisfactory.
- B. Water piping systems shall be subjected to a hydrostatic test of one hundred fifty pounds. The system shall be proven tight after a twenty-four (24) hour test.
- C. The house drain line, interior storm sewers, interior rain water conductors, and all soil, waste and vent piping shall be subjected to a hydrostatic test of not less than a 10-foot head or an air test of not less than 5 lbs. per sq. inch using a mercury column gauge and shall hold for 15 minutes.
- D. Exterior sewer lines to the termination point outside the building shall be subject to a ten-foot hydrostatic test or an approved smoke test. These lines shall be subjected to a second test after 2 feet of backfill has been properly installed.
- E. After fixtures have been installed, the entire plumbing system, exclusive of the house sewer, shall be subjected to an air pressure test equivalent to one-inch water column and proven tight. The Contractor responsible shall furnish and install all of the test tees required, including those for isolating any portion of the system for tests.
- F. Thermometers and gauges shall be checked for accuracy. If instruments prove defective, they shall be replaced.
- G. The Contractor shall perform all additional tests that may be required by the Kentucky Department of Health or other governing agency.
- H. Set temperature control on water heaters and adjust tempering valves as required.

- I. Any leaks or imperfections found shall be corrected and a new test run until satisfactory results are obtained. The cost of repair or restoration of surfaces damaged by leaks in any system shall be borne by the Contractor.
- J. The compressed air system shall be tested for leaks for eight (8) hours at 250 PSI.
- K. Fuel oil piping shall be static tested at 250 PSI for eight (8) hours.

### 3. HEATING, VENTILATING AND AIR CONDITIONING

- A. The test and balance of this system shall be by a contractor who employs only the services of a certified AABC or independent NEBB firm whose sole business is to perform test and balance services. The test and balance contractor shall report all deficiencies to the engineer.
- B. The Mechanical Contractor shall test all piping before being insulated or concealed in any manner. Where leaks or defects develop, required corrections shall be made and tests repeated until systems are proven satisfactory. Water piping systems shall be subjected to a hydrostatic test of not less than one and a half times the operating pressure and shall be proven tight after a twenty-four (24) hour test. High pressure steam piping shall be tested at 450 psi. Chilled water piping shall be tested at 250 psi. Heating hot water piping shall be tested at 150 psi.
- C. All motors, bearings, etc. shall be checked and lubricated as required during start-up procedures. All automatic, pressure regulating and control valves shall be adjusted. Excessive noise or vibration shall be eliminated. Provide all start-up documents to Designer prior to any test and balance services.
- D. System balancing, where required, shall be performed only by persons skilled in this work. The system shall be balanced as often as necessary to obtain desired system operation and results.
- E. All fan belts shall be adjusted for proper operation of fans.
- F. All deficiencies observed by the Test and Balance Contractor shall be reported immediately to the Engineer and Mechanical Contractor.
- G. For the purpose of placing the heating, ventilating and air conditioning system in operation according to design conditions and certifying same, final testing and balancing shall be performed in complete accordance with AABC Standards for Total System Balance, Volume Six (2002), for air and hydronic systems as published by the Associated Air Balance Council. The following systems shall be test and balance:
  - (1) The supply, return and outside air duct systems associated with each AHU. Provide static pressure profiles thru each system. Static pressure profiles shall include all sections from the return duct inlet and supply duct outlet of the air handling unit. Show accurate representation of return, relief, outdoor and economizer damper locations. On units equipped with return air fans; show location and profile of the return fan.
  - (2) AHU supply and return duct air leakage testing per Sheet Metal Specification for the duct risers and mains only.
  - (3) The chilled water pumps and chilled water coils.
  - (4) The hot water pumps and hot water coils.
  - (5) The energy recovery pumps and associated coils.

(6) Pressure test ductwork as required by sheet metal specification section 231200.

- H. Provide a preliminary test report to the mechanical engineer immediately after the system is air balanced, or any initial phases are balanced. This report may be hand written. Anticipate visiting the site again after the engineer has reviewed the report. The engineer may request up to 15 additional static pressure measurements for any air handling system to help resolve any balancing deficiencies. Include five additional static pressure measurements for each exhaust air system.
- I. The Test and Balance agency shall provide lifts, scaffolding, etc. as required to balance devices in areas with high ceilings such as gymnasiums, auditoriums, atriums, cupolas, etc. The Test and Balance agency may coordinate with the General Contractor or Mechanical Contractor to arrange for these items to be provided to access high devices, however, it is emphasized the Contractor is finally responsible for providing the means required to balance all devices.
- J. Instruments used for testing and balancing of air and hydronic systems shall have been calibrated within a period of six months prior to balancing. All final test analysis reports shall include a letter of certification listing instrumentation used and last date of calibration.
- K. Test and Balance agency is to provide sizing of fan or motor sheaves required for proper balance. The Mechanical Contractor will purchase and install all sheaves and belts as required. This includes new and existing equipment.
- L. An electronic copy of the complete test reports shall be submitted to the Consulting Engineer prior to final acceptance of the project. Preliminary test reports shall be submitted when requested.
- M. The Contractor shall provide and coordinate their work in the following manner:
  - (1) Provide sufficient time before final completion date so that tests and balancing can be accomplished.
  - (2) Provide immediate labor and tools to make corrections when required without undue delay.
- N. The Contractor shall put all heating, ventilating and air conditioning systems and equipment and range hood system into full operation and shall continue the operation of same during each working day of testing and balancing.

#### 4. FIRE PROTECTION SYSTEM

- A. Test in accord with local Fire Marshall requirements and/or requirements or recommendations of NFPA Regulations.

**END OF SECTION 20 3140**

**SECTION 312001 - STORM WATER POLLUTION PREVENTION PLAN (SWPPP)****PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. The following documents comprise the SWPPP:
1. Specification Section 311000, 312000
  2. Best Management Practices (BMP) Plan
  3. Notice of Intent for Storm Water Construction Activities (NOI-SWCA)
  4. Notice of Termination (NOT)
  5. CMs BMP implementation schedule
  6. Operation and Maintenance Plan Checklist

**1.2 SUBMITTALS**

- A. Notice of Intent: A minimum of **7 days** prior to beginning any work, the Construction Manager (CM) shall submit a Notice of Intent for Storm Water Construction Activities (NOI-SWCA) for a General Permit to the Kentucky Division of Water via their online e-permitting web site located at:

**<https://dep.gateway.ky.gov/eForms/default.aspx?FormID=7>**.

A paper NOI-SWCA may be submitted to the DOW a minimum of 30 days prior to commencement of construction activities if the CM is unable to submit electronically. A copy shall be sent to the office of CARMAN and shall be kept on file with the BMP Plan and the SWPPP.

- B. CMs BMP implementation schedule: Prior to mobilizing on the site, the CM shall submit a detailed schedule to the design professional outlining the sequence of major activities that includes the installation of all controls, earth disturbing activities and stabilization activities. This implementation schedule will become part of the SWPPP.
- C. Notice of Termination: Upon final stabilization of the construction site and removal of all temporary erosion and sediment control measures, the CM shall submit a Notice of Termination (NOT) to the Kentucky Division of Water. A copy shall be sent to the office of CARMAN and shall be retained with the BMP Plan and the SWPPP for a period of one year after filing the NOT. A copy of the NOT is included at the end of this section.

**1.3 QUALITY ASSURANCE**

- A. Inspections: The CM shall employ an erosion control inspector to inspect all storm water control measures as outlined in the KPDES Storm Water General Permit (KYR10). Qualified inspector shall be certified by the Kentucky Erosion Prevention and Sediment Control Program (KEPSC). Inspections shall be made at least once every 7 days and within 24 hours of the end of a storm event that is 0.5 inches or greater. Areas that have been temporarily or finally stabilized shall be inspected at least once every month. Revisions to the BMP plan based on the results of the inspection shall be implemented within seven (7) days of the inspection.

- B. Reports: The qualified inspector conducting the inspections shall prepare a report summarizing the scope of the inspection, names and qualifications of personnel making the inspection, the date of the inspection, major observations relating to the implementation of the BMP plan, and any corrective actions taken shall be made and kept as part of the BMP plan for at least three (3) years after the date of the inspection, or until one (1) year after coverage under the General Permit (KYR10) ends. The report is to be signed by the qualified inspector. A copy of the report is to be delivered to CARMAN and the CM via the same transmittal and at the same time.
- C. The SWPPP implementation and methods of construction shall comply with the following standards
  - 1. KPDES General Permit No.: KYR10, General KPDES Permit for Storm Water Point Source Discharges Construction Activities.
  - 2. EPA 832-R-92-005: Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices.

#### 1.4 PROJECT DESCRIPTION

- A. General: The proposed development and land disturbance activity is located in Fayette County on land bordered by Huguelet and University Drives. Veterans Drive also terminates at the south end of the site. The Kelley Building and Medical Annex #5, as well as surface parking are located on the property owned by the University of Kentucky, adjacent to the Dimmock Building, Combs Cancer Center, Whitney Hendrickson Cancer Center and the Bosomworth Health Sciences Building, all of which will remain. The University owns all of the surrounding property across the streets to the north and the east. At this time, the land disturbance will be limited to excavation of the basement of the building, encompassing 1.4 acres. Upon completion of the project, the average post-construction runoff coefficient will not exceed the pre-construction runoff coefficient. The latitude and longitude are 38°01'53.29" and -84°30'17.03" respectively.
- B. Soils: The Fayette County Soil Survey was researched to determine the soil types for the affected watershed on this project. The entire 1.4 acres of disturbance is within the limits of the downtown urban center of Lexington and outside the limits of detailed soil mapping.
- C. Site Conditions: The topography of the site slopes approximately 9 feet in elevation from the northeast to the southwest. The site is at the top of the Wolf Run Creek watershed. The site development will not result in an increase in the amount of impervious surface, therefore a stormwater detention system will not be required. Stormwater discharge will occur to the existing storm sewers to the south in Veterans Drive.
- D. Critical Areas:
  - 1. Huguelet, University and Veterans Drives: It is crucial for the motoring public to prevent mud and debris from entering the roadway.
  - 2. Wolf Run Creek: Sediment controls must be in place prior to land disturbance activities to prevent sediment laden runoff from reaching the public sewer system and ultimately the receiving water.

#### 1.5 MATERIAL INVENTORY

- A. The material or substances listed below are expected to be present onsite during construction. The CM shall amend this list as appropriate as part of the overall SWPPP.
  - 1. Concrete

2. Detergents
3. Paints (enamel and latex)
4. Metal studs
5. Tar
6. Metal roofing
7. Fertilizers
8. Masonry Block
9. Wood
10. Petroleum products

## **PART 2 - CONTROLS**

### **2.1 EROSION AND SEDIMENT CONTROL MEASURES**

- A. The erosion and sediment control measures will be typical of a small scale earth moving site including:
1. Construction Entrance
  2. Dust and Pollutant Control
  3. Fertilizer Application Control
  4. Mulching-Permanent and Temporary
  5. Silt Traps
  6. Silt Fence Silt Control
  7. Land Grading
  8. Permanent Seeding/Sodding
  9. Inlet Protection

### **2.2 BMP PLAN**

- A. The permittee shall modify the BMP plan when there is a change in design, construction, operation, or maintenance of the site which has significant effect on the potential for the discharge of pollutants to the waters of the Commonwealth and shall implement the changes within seven (7) days.
- B. The permittee shall amend the BMP plan if it proves to be ineffective in controlling the discharge of pollutants to the waters of the Commonwealth and shall implement the changes within seven (7) days.

### **2.3 STABILIZATION PRACTICES**

- A. **Temporary Stabilization:** Temporary stabilization of top soil stockpiles and disturbed portions of the site shall begin within 14 days on areas where construction activities have temporarily (for 21 days or more) ceased. Temporary stabilization can be accomplished through seeding Rye (grain) applied at 120 pounds per acre and/or straw mulching at a rate of 4,000 pounds of straw per acre.
- B. **Permanent Stabilization:** Disturbed portions of the site where construction activities permanently ceases shall be stabilized with permanent seed or sodded no later than 14 days after the last construction activity. Most areas will be sodded, however, seeded areas will



receive the following. The permanent seed mix shall consist of 90% tall fescue (*Festuca arundinacea*) blend of minimum three (3) cultivars and 10% annual rye sown at a rate of 175-lbs/acre. Prior to seeding, ground agricultural limestone at rate specified by soil test and 220 lbs/acre of 20-26-6 fertilizer shall be applied to each acre stabilized. Seeding shall be done with a hydroseeding process as specified. Steep slopes and drainage channels shall be sodded. Follow specs for post fertilization and maintenance for watering, etc.

- C. Dust Control: Apply water, polyacrylamide, or other stabilizers to bare areas if windblown dust becomes a problem. Vegetative cover is the most effective means of dust and erosion control.
- D. Storm water management: The development of the site will not result in increased runoff during construction. However, the CM shall conduct all operations responsibly to prevent off-site sedimentation. Curb and gutter, catch basins, yard drains and piping will provide storm water capture and control. Roof drains will be piped underground to the storm drain system to prevent surface splash and erosion. The structural control measures detailed on the Erosion Control Plan are proposed to minimize the impact of erosion. A water quality unit will provide permanent water quality to runoff before it leaves the site and enters the public storm sewer.
- E. The CM shall also manage the site as needed according to the following checklist:
  - 1. Manage the site to infiltrate stormwater into the ground and keep sediment out of storm drains.
  - 2. Minimize the amount of exposed soil on site at any one time to the extent possible.
  - 3. Plan the project in stages to minimize the amount of area that is bare and subject to erosion.
  - 4. Vegetate disturbed areas with permanent or temporary seeding immediately upon reaching final grade.
  - 5. Vegetate or cover stockpiles that will not be used immediately.
  - 6. Reduce the velocity of stormwater both onto and away from the project area.
  - 7. Use interceptors, diversions, vegetated buffers, and check dams to slow down stormwater as it travels across and away from the project site.
  - 8. Construct temporary diversion measures to direct flow away from exposed areas toward stable portions of the site.
  - 9. Protect defined channels immediately with measures adequate to handle the storm flows expected.
  - 10. Use sod, geotextile, natural fiber, riprap, or other stabilization measures to allow channels to carry water without causing erosion.
  - 11. Maintain all BMPs to ensure their effectiveness during the life of the project.
  - 12. Maintain fences that protect sensitive areas, silt fences, diversion structures, and other BMPs.

## 2.4 OTHER CONTROLS

- A. Waste Materials: All waste materials will be collected and stored in a secure metal dumpster rented from licensed waste management company. Dumpster shall meet all local and site solid waste regulations. All trash and construction debris will be deposited in the dumpster. The dumpster will be emptied when 90% full and trash hauled to the respective approved landfill. No construction waste will be buried on site. All personnel will be instructed regarding the correct procedure for waste disposal. Notices stating these practices will be posted at the office trailer and the site superintendent will be responsible for seeing that these procedures are followed.
- B. Hazardous Waste: The use of any hazardous material is not anticipated at this site. But in such an event all hazardous waste materials will be disposed of in a manner specified by local or state regulation or by manufacturer. Site personnel will be instructed in these practices, and the site superintendent will be responsible for seeing that these practices are followed.

- C. Sanitary Waste: All sanitary waste will be collected from portable units at a minimum of one time per week by a licensed sanitary waste contractor as required by local regulation.
- D. Offsite vehicle tracking: Stabilized construction entrances shall be provided to help reduce vehicle tracking of sediments at the primary points of entry to the site. The adjacent paved street will be swept to remove any excess mud, dirt or rock tracked from site. Dump trucks hauling material from the site will be covered with a tarpaulin.
- E. Non-Storm Water Discharges: It is expected that the following non-storm water discharges could occur from the site during the construction period
  - 1. Water from water line sterilization/flushing. All water to be treated, neutralized, and handled per Kentucky Division of Water regulations.
  - 2. Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred).
  - 3. Uncontaminated ground water (from dewatering excavation as applicable).

2.5 SEQUENCE OF MAJOR ACTIVITIES

- A. The CM shall prepare his BMP implementation schedule based on the following outline of major activities.

Construction Activity	Schedule Consideration
Construction Access-entrance to site, construction routes, equipment parking areas	This is the first land disturbing activity. As soon as construction begins, stabilize any bare areas with gravel and temporary vegetation.
Sediment traps and sediment fences	After construction site is accessed, principal sediment fence barriers, as applicable, should be installed, with addition of temporary traps and barriers as needed during grading operation.
Runoff control-diversions, perimeter dikes, water bars, outlet protection	Key practices should be installed after the installation of principal sediment traps and before land grading. Additional runoff control measures may be installed during grading as required.
Land clearing and grading-site preparation(topsoil strip, excavation, fill placement, grading, sediment traps, barriers, diversions, drains, surface roughening)	Implement major clearing and grading after installation of principal sediment and run off control measures, and install additional control measures as grading continues. Clear borrow and disposal areas as required, and mark tree and buffers for preservation. Clearing will be kept to a minimum.
Surface stabilization-temporary and permanent seeding, mulching, sodding, riprap	Temporary or permanent stabilizing measure should be applied immediately to any disturbed areas where work has been either completed or delayed 21 days. Land disturbance will be scheduled to limit exposure of bare soils to erosive elements to the extent possible.

Building construction-buildings, utilities, storm piping, curb and gutter, paving	During construction, install any erosion and sediment control measures that are needed per the attached specific sediment control plan and according to local regulatory agency, i.e., additional inlet control, etc. Install gravel areas for building material lay down and for vehicular traffic.
Landscaping and final stabilization-backfilling, topsoil replacement, trees, shrubs, permanent seeding, sodding, riprap	Last construction phase. Vegetation and mulch will be applied to applicable areas immediately after final grading is completed. Stabilize all open areas, including, borrow and fill areas, remove and stabilize temporary control measures as prescribed on the accompanying erosion control plan sheets.

- B. Timing of controls/measures: As indicated on the Sequence of Major Activities, silt fences and construction entrances will be constructed prior to clearing or grading on other portions of the site. Areas where construction activity ceases for more than 21 days will be stabilized with temporary seed and mulch within 14 days of the last disturbance. Once construction activity ceases permanently in an area, that area will be stabilized with permanent seed and mulch or sod as specified. After the entire site is stabilized, the accumulated sediment will be removed from the trap or basin and the check dams and silt fence removed as applicable.

## 2.6 SPILL PREVENTION

- A. Good Housekeeping: The following are material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.
1. An effort will be made to store only enough product to do the job.
  2. All materials stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
  3. Portable restrooms are to be located so that any spill will not enter into the stormwater runoff.
  4. Products will be kept in their original containers with original manufacturers label.
  5. Substances will not be mixed with one another unless recommended by manufacturer.
  6. Whenever possible, all of a product will be used up before disposing of the container.
  7. Manufacturers' recommendations for proper use and disposal will be followed.
  8. The site superintendent will inspect daily to ensure proper use and disposal of materials onsite.
  9. Petroleum products if stored on-site are to be contained within a double wall steel tank. Tank is to be inside of a bermed area lined with 6 mil plastic. Containment area is to be capable of withholding the entire contents of the tank in the event of a catastrophic spill.
- B. Hazardous Products: Hazardous materials are not expected to be brought to the site, if they are required then the guidelines below should be followed.
1. Product will be kept in original containers unless they are not resealable.
  2. Original labels and material safety data sheets will be retained for product information.
  3. If surplus product must be disposed of, manufacturer's, local government, and state recommended methods for proper disposal shall be followed.
- C. Petroleum Products: All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chances of leakage. Petroleum products will be stored in

tightly sealed containers, which are clearly labeled. Portable equipment fuel tanks will be located as far away from surface water bodies as possible. All oils drained from equipment will be captured in pans or other suitable equipment and placed in drums for removal from site for disposal at an approved off-site location.

- D. Fertilizers used will be applied only in the minimum amounts recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.
- E. Paints: All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system, but will be properly disposed of according to manufacturers' instructions or State and local regulations.
- F. Concrete trucks will be required to wash out or discharge surplus concrete or drum wash water into a wash out pit. The wash out pit shall be designated in an area that does not receive significant runoff and does not drain into a storm network. Upon the completion of the project, this area would be cleared of the concrete and the site restored.
- G. Any asphalt substances used onsite will be applied according to KYDOH standards.
- H. Spill Control Practices: In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup.
  - 1. Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the locations of the information and cleanup supplies.
  - 2. Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include but not limited to brooms, dustpans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically designed for this purpose.
  - 3. All spills will be cleaned up immediately after discovery.
  - 4. The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
  - 5. Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of size.
  - 6. The spill prevention plan will be adjusted to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
  - 7. The site superintendent responsible for the day-to-day site operations will be the spill prevention and cleanup coordinator. He will designate at least three other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area in the office trailer onsite.
- I. Spill Notification: In the event of a spill, make the appropriate notification(s) consistent with the following procedures.
  - 1. Any spill of gasoline greater than 25 gallons in a 24-hour period or spill of diesel fuel greater than 75 gallons in a 24-hour period must be reported to the Kentucky Environmental Response Team at (800) 928-2380.
  - 2. Any spill of oil that 1) violates water quality standards, 2) produces a "sheen" on a surface water, or 3) causes a sludge or emulsion must be reported to the Kentucky Environmental Response Team at (800) 928-2380.

- 3. Any spill of oil or hazardous substance to waters of the state must be reported immediately by the telephone to the List State agency and phone number.
- 4. Any release of a hazardous substance that may be a threat to human health or the environment must be reported to the List State agency and phone number immediately upon discovery.

**PART 3 - CERTIFICATION**

**3.1 CONTRACTORS AND SUBCONTRACTORS**

- A. As part of the BMP implementation schedule, the CM shall clearly state the Contractor or Subcontractor that will implement each control measure identified on the BMP plan.
- B. All Contractors and Subcontractors identified in the BMP plan must sign a copy of the certification statement below before conducting any professional service at the site.

**1. Construction Manager**

- a. "I certify under penalty of law that I understand the terms and conditions of the general National Pollution Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

	Name
	Title
	Site Address

**2. Earthwork Contractor**

- a. "I certify under penalty of law that I understand the terms and conditions of the general National Pollution Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

	Name
	Title
	Site Address

3. Storm Sewer Contractor

- a. "I certify under penalty of law that I understand the terms and conditions of the general National Pollution Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

_____	_____
Company Name, Address and Phone	Name
_____	_____
_____	Title
_____	_____
_____	Site Address

4. Site Utility Contractor

- a. "I certify under penalty of law that I understand the terms and conditions of the general National Pollution Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

_____	_____
Company Name, Address and Phone	Name
_____	_____
_____	Title
_____	_____
_____	Site Address

**KPDES FORM NOT-SW**

	<p style="text-align: center;">Kentucky Pollutant Discharge Elimination System (KPDES)</p> <p style="text-align: center;"><b>NOTICE OF TERMINATION (NOT)</b> of Coverage Under the KPDES General Permit for Storm Water Discharges Associated with Industrial Activity</p>
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Submission of this Notice of Termination constitutes notice that the party identified in Section II of this form is no longer authorized to discharge storm water associated with industrial activity under the KPDES program.

ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM.  
(Please see instructions on back before completing this form.)

<b>I. PERMIT INFORMATION</b>
KPDES Storm Water General Permit Number:
Check here if you are no longer the Operator of the Facility: <input type="checkbox"/>
Check here if the Storm Water Discharge is Being Terminated: <input type="checkbox"/>
<b>II. FACILITY OPERATOR INFORMATION</b>
Name:
Address:
City/State/Zip Code:
Telephone Number:
<b>III. FACILITY/SITE LOCATION INFORMATION</b>
Name:
Address:
City/State/Zip Code:

**Certification:** I certify under penalty of law that all storm water discharges associated with industrial activity from the identified facility that are authorized by a KPDES general permit have been eliminated or that I am no longer the operator of the facility or construction site. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge storm water associated with industrial activity under this general permit, and that discharging pollutants in storm water associated with industrial activity of waters of the Commonwealth is unlawful under the Clean Water Act and Kentucky Regulations where the discharge is not authorized by a KPDES permit. I also understand that the submittal of this Notice of Termination does not release an operator from liability for any violations of this permit or the Kentucky Revised Statutes.

NAME (Print or Type)	TITLE
SIGNATURE	DATE

Revised June 1999

**INSTRUCTIONS**  
**NOTICE OF TERMINATION (NOT) OF COVERAGE UNDER THE KPDES GENERAL PERMIT**  
**FOR STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY**

**Who May File a Notice of Termination (NOT) Form**

Permittees who are presently covered under the Kentucky Pollutant Discharge Elimination System (KPDES) General Permit for Storm Water Discharges Associated with Industrial Activity may submit a Notice of Termination (NOT) form when their facilities no longer have any storm water discharges associated with industrial activity as defined in the storm water regulations at 40 CFR 122.26 (b)(14), or when they are no longer the operator of the facilities.

For construction activities, elimination of all storm water discharges associated with industrial activity occurs when disturbed soils at the construction site have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time, or that all storm water discharges associated with industrial activity from the construction site that are authorized by a KPDES general permit have otherwise been eliminated. Final stabilization means that all soil-disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 70% of the cover for unpaved areas and areas not covered by permanent structures has been established, or equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.

**Where to File NOT Form**

Send this form to the following address:

**Section Supervisor**  
**Inventory & Data Management Section**  
**KPDES Branch, Division of Water**  
**14 Reilly Road, Frankfort Office Park**  
**Frankfort, KY 40601**

**Completing the Form**

Type or print legibly in the appropriate areas and according to the instructions given for each section. If you have questions about this form, call the Storm Water Contact, Industrial Section, at (502) 564-3410.

**Section I - Permit Information**

Enter the existing KPDES Storm Water General Permit number assigned to the facility or site identified in Section III. If you do not know the permit number, **call the Storm Water Contact, Industrial Section at (502) 564-3410.**

Indicate your reason for submitting this Notice of Termination by checking the appropriate box:

If there has been a change of operator and you are no longer the operator of the facility or site identified in Section III, check the corresponding box.

If all storm water discharges at the facility or site identified in Section III have been terminated, check the corresponding box.

**Section II - Facility Operator Information**

Give the legal name of the person, firm, public organization, or any other entity that operates the facility or site described in this application. The name of the operator may or may not be the same name as the facility. The operator of the facility is the legal entity which controls the facility's operation, rather than the plant or site manager. Do not use a colloquial name. Enter the complete address and telephone number of the operator.

**Section III - Facility/Site Location Information**

Enter the facility's or site's official or legal name and complete address, including city, state and ZIP code. If the facility lacks a street address, indicate the state, the latitude and longitude of the facility to the nearest 15 seconds, or the quarter, section, township, and range (to the nearest quarter section) of the approximate center of the site.

**Section IV - Certification**

Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

*For a corporation:* by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

*For a partnership or sole proprietorship:* by a general partner or the proprietor; or

*For a municipality, State, Federal, or other public facility:* by either a principal executive

Revised June 1999



**LFUCG EROSION PREVENTION AND SEDIMENT CONTROL  
INSPECTION REPORT**

Project Name: \_\_\_\_\_ Grading Permit #: \_\_\_\_\_

Facility Operator Name on KPDES Form NOI-SW \_\_\_\_\_

Inspection Date: \_\_\_/\_\_\_/\_\_\_ Time: \_\_\_\_\_ Inspected by: \_\_\_\_\_

- | Yes                      | No                       | N/A                      |  |
|--------------------------|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Engineer's Erosion and Sediment Control (ESP) Plan is on site and being followed         |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Weekly inspection reports by Facility Operator are on site                               |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Environmentally Sensitive Areas are marked with orange fence and protected from sediment |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Floodplain is free of grading except as shown on ESC Plan                                |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 25-foot buffer strip along streams is free of grading                                    |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Disturbed areas inactive for 14 days are stabilized with seed and mulch                  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Maximum area exposed without mulch is 25 acres   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Construction entrance and parking areas are stabilized with stone                        |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Diversion channels are installed and stabilized  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Silt fence is installed and maintained   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Stormwater pipe inlets/outlets are protected   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Check dams are installed and maintained  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Sediment ponds/traps are installed and maintained  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Impact stilling basins are installed   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Soil stockpiles are stabilized with seed/mulch   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Erosion blanket is installed and maintained  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Channels are stabilized with proper channel lining                                       |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Stream crossings are installed and maintained  |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Dewatering operations are filtered before discharging to the stream                      |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Pump-around flow diversions are in operation   |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mud is being kept off public streets   |

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10/6/04

**END OF SECTION 312001**

## SECTION 05 7313 - GLAZED DECORATIVE METAL RAILINGS

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:

1. Glazed decorative metal railings.

B. Related Requirements:

1. Section 017419 – “Construction Waste Management and Disposal”
2. Section 018113 – “Sustainable Design and LEED Requirements”
3. Section 018116 – “Low Emitting Materials”
4. Section 018119 – “Construction Indoor Air Quality (IAQ) Management”.
5. Section 061000 "Rough Carpentry" for wood blocking for anchoring railings.

#### 1.2 DEFINITIONS

- A. Railings: Guards, handrails, and similar devices used for protection of occupants at open-sided floor and exterior deck areas and for pedestrian guidance and support, visual separation, or wall protection.

#### 1.3 COORDINATION AND SCHEDULING

- A. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver items to Project site in time for installation.

#### 1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

#### 1.5 ACTION SUBMITTALS

A. Product Data:

1. Metal railings assembled from standard components.
2. Glass products.
3. Glazing cement and accessories for structural glass railings.
4. Sealant and accessories for structural glass railings.
5. Fasteners.
6. Shop primer.
7. Bituminous paint.
8. Nonshrink, nonmetallic grout.

9. Anchoring cement.
  - B. Shop Drawings: Include plans, elevations, sections, and attachment details.
  - C. Samples for Initial Selection: For products involving selection of color, texture, or design, including mechanical finishes.
  - D. Samples for Verification: For each type of exposed finish required.
    1. Sections of each distinctly different linear railing member, including handrails, top rails, posts, and balusters.
    2. Base channel.
    3. Each type of glass and glass edge required.
    4. Fittings and brackets.
    5. Assembled Samples of railing systems, made from full-size components, including top rail, post, handrail, structural glass balusters,. Show method of finishing members at intersections. Samples need not be full height.
  - E. Delegated Design Submittal: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
  - F. LEED Submittals:
    1. Building Product Disclosure Credit Documentation.
      - a. Environmental Product Declarations
      - b. Embodied Carbon/LCA Optimization Documentation
      - c. Sourcing of Raw Materials Documentation.
        - 1) Provide statement of Material Cost for each product.
      - d. Material Ingredient and Optimization Reports
    2. Low-Emitting Materials Credit Documentation for materials internal to weatherproofing envelope.
      - a. VOC Content for paints, coatings, adhesives and sealants wet-applied on site
        - 1) Provide volume used in Liters
      - b. Emissions Evaluation or USGBC-approved Third-Party Certifications and Labels for Low-Emitting Product Categories
        - 1) Provide statement of Material Cost for each product.
- 1.6 INFORMATIONAL SUBMITTALS
- A. Qualification Data: For professional engineer.
  - B. Mill Certificates: Signed by manufacturers of stainless steel products, certifying that products furnished comply with requirements.

- C. Product Test Reports: For tests performed by a qualified testing agency, in accordance with ASTM E894, ASTM E935, ASTM E2353, and ASTM E2358.
- D. Evaluation Reports: From ICC-ES or other qualified testing agency acceptable to authorities having jurisdiction.
  - 1. For glazed decorative metal railings.
  - 2. For post-installed anchors.
- E. LEED Submittals:
  - 1. Building Product Disclosure Credit Documentation.
    - a. Environmental Product Declarations
    - b. Embodied Carbon/LCA Optimization Documentation
    - c. Sourcing of Raw Materials Documentation.
      - 1) Provide statement of Material Cost for each product.
    - d. Material Ingredient and Optimization Reports
  - 2. Low-Emitting Materials Credit Documentation for materials internal to weatherproofing envelope.
    - a. VOC Content for paints, coatings, adhesives and sealants wet-applied on site
      - 1) Provide volume used in Liters
    - b. Emissions Evaluation or USGBC-approved Third-Party Certifications and Labels for Low-Emitting Product Categories
      - 1) Provide statement of Material Cost for each product.

## 1.7 QUALITY ASSURANCE

- A. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
  - 1. Build mockups for each form and finish of structural glass railing consisting of top rail, structural glass, base channel, and anchorage system components that are full height and are not less than 24 inches in length.
  - 2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

## 1.8 FIELD CONDITIONS

- A. Field Measurements: Verify actual locations of walls and other construction contiguous with railings by field measurements before fabrication and indicate measurements on Shop Drawings.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design glazed decorative metal railings, including attachment to building construction.
- B. General: In engineering railings to withstand structural loads indicated, determine allowable design working stresses of railing materials based on the following:
  - 1. Stainless Steel: 60 percent of minimum yield strength.
  - 2. Glass: 25 percent of mean modulus of rupture (50 percent probability of breakage), as listed in "Mechanical Properties" in AAMA CW-12, "Structural Properties of Glass."
- C. Structural Performance: Railings, including attachment to building construction, are to withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
  - 1. Handrails and Top Rails of Guards:
    - a. Uniform load of 50 lbf/ft. applied in any direction.
    - b. Concentrated load of 200 lbf applied in any direction.
    - c. Uniform and concentrated loads need not be assumed to act concurrently.
  - 2. Structural Glass Railings and Glass-Infill Panels:
    - a. Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft..
    - b. Infill load and other loads need not be assumed to act concurrently.
  - 3. For structural glass railings, support each section of top rail and handrail by a minimum of three glass panels or by other means so railings will remain in place if any one glass panel fails.
    - a. Support top rail and handrail ends such that railings remains in place if end glass panel fails.
- D. Low-emitting Requirements – General: For Paints and Coatings, Adhesives and Sealants, Flooring, Ceiling, Wall Panels, and Insulation products internal to the weatherproofing envelope.
  - 1. VOC Emissions Evaluation: Product must be tested and determined compliant in accordance with California Department of Public Health (CDPH) Standard Method v1.2–2017, using the applicable exposure scenario or comply with USGBC-approved Third-Party Certifications and Labels.
  - 2. VOC Content Requirements for Wet Applied Products: All paints and coatings wet-applied on site must meet the applicable VOC limits of the California Air Resources Board (CARB) 2007, Suggested Control Measure (SCM) for Architectural Coatings, or the South Coast Air Quality Management District (SCAQMD) Rule 1113, effective February 5, 2016.
  - 3. Methylene chloride and perchloroethylene shall not be intentionally added in paints, coatings, adhesives, or sealants.
  - 4. VOC Content Requirements for Wet Applied Products: All adhesives and sealants wet-

applied on site must meet the applicable chemical content requirements of SCAQMD Rule 1168, amended October 26, 2017, Adhesive and Sealant Applications, as analyzed by the methods specified in Rule 1168.

5. Methylene chloride and perchloroethylene shall not be intentionally added in paints, coatings, adhesives, or sealants.
6. Do not use adhesives that contain urea formaldehyde.
7. Free of Formaldehyde: Insulation manufactured with 100 percent acrylic binders and no formaldehyde.

## 2.2 GLAZED DECORATIVE METAL RAILINGS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  1. C.R. Laurence Co., Inc.; CRH Americas, Inc.
  2. Hollaender Architectural Railing Systems; Hollaender Mfg. Co.
  3. Julius Blum & Co., Inc.
  4. Livers Bronze Co.
  5. VIVA Railings, LLC
  6. Wagner Companies (The); R&B Wagner, Inc.
- B. Source Limitations for Laminated Glass: Obtain from single source from single manufacturer.
- C. Source Limitations for Decorative Metal Railing Components: Obtain from single source from single manufacturer for each component and installation method.
- D. Product Options: Information on Drawings and in the Specifications establishes requirements for railing system's aesthetic effects and performance characteristics. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
  1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.

## 2.3 METALS, GENERAL

- A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
- B. Brackets, Flanges, and Anchors: Same metal and finish as supported rails unless otherwise indicated.

## 2.4 STAINLESS STEEL

- A. Tubing: ASTM A554, Grade MT 316.
- B. Pipe: ASTM A312/A312M, Grade TP 316.
- C. Castings: ASTM A743/A743M, Grade CF 8M or Grade CF 3M.

- D. Sheet, Strip, Plate, and Flat Bar: ASTM A666 or ASTM A240/A240M, Type 316.
- E. Bars and Shapes: ASTM A276, Type 316.

## 2.5 GLASS AND GLAZING PRODUCTS, GENERAL

- A. Glazing Publications: Comply with written instructions of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
  - 1. NGA/GANA Publications: "GANA Glazing Manual."
- B. Safety Glazing: Glazing is to comply with 16 CFR 1201, Category II.
- C. Safety Glazing Labeling: Permanently mark glass with certification label of the SGCC or another certification agency acceptable to authorities having jurisdiction. Label is to indicate manufacturer's name, type of glass, thickness, and safety glazing standard with which glass complies.
- D. Fully Tempered Float Glass: ASTM C1048, Kind FT (fully tempered), Condition A (uncoated) unless otherwise indicated, Type I, Class 1 (clear), Class 1 and low-iron clear, or Class 2 (tinted) as indicated, Quality-Q3.
- E. Glazing Cement and Accessories for Structural Glass Railings: Glazing cement, setting blocks, shims, and related accessories as recommended or supplied by railing manufacturer for installing structural glazing in metal base channels.
- F. Sealant and Accessories for Structural Glass Railings: Sealant, gaskets, setting blocks, shims, and related accessories as recommended or supplied by railing manufacturer for installing structural glazing in metal base channels.

## 2.6 GLASS HANDRAILS AND GUARDS

- A. Tempered Glass Handrails and Guards: Provide products that have been tested for surface and edge compression in accordance with ASTM C1048 and for impact strength in accordance with 16 CFR 1201 for Category II materials.
  - 1. Glass Color: Clear.
  - 2. Thickness for Structural Glass Balusters: As required by structural loads, but not less than 19.0 mm.

## 2.7 FASTENERS

- A. Fastener Materials: Unless otherwise indicated, provide the following:
  - 1. Stainless Steel Components: Type 316 stainless steel fasteners.
  - 2. Dissimilar Metals: Type 316 stainless steel fasteners.
- B. Fasteners for Anchoring to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction indicated and capable of withstanding design loads.

- C. Provide concealed fasteners for interconnecting railing components and for attaching railings to other work unless otherwise indicated.
  - 1. Provide tamper-resistant flat-head machine screws for exposed fasteners unless otherwise indicated.
- D. Post-Installed Anchors: Fastener systems with working capacity greater than or equal to design load, in accordance with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC193.
  - 1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B633 or ASTM F1941/ASTM F1941M, Class Fe/Zn 5, unless otherwise indicated.
  - 2. Material for Exterior Locations and Where Stainless Steel Is Indicated: Alloy Group 2 stainless steel bolts, ASTM F593, and nuts; ASTM F594.

## 2.8 MISCELLANEOUS MATERIALS

- A. Handrail Brackets: Cast stainless steel, center of rail 2-1/2 inches from face of structural glass balusters.
- B. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.
- C. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.
- D. Anchoring Cement: Factory-packaged, nonshrink, nonstaining, hydraulic-controlled expansion cement formulation for mixing with water at Project site to create pourable anchoring, patching, and grouting compound.
  - 1. Water-Resistant Anchoring Cement: At exterior locations provide formulation that is resistant to erosion from water exposure without needing protection by a sealer or waterproof coating and that is recommended by manufacturer for exterior use.

## 2.9 FABRICATION OF METAL RAILINGS

- A. Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.
- B. Assemble railings in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation. Use connections that maintain structural value of joined pieces.
- C. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- D. Form work true to line and level with accurate angles and surfaces.
- E. Fabricate connections that will be exposed to weather in a manner to exclude water. Provide



weep holes where water may accumulate. Locate weep holes in inconspicuous locations.

- F. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
- G. Mechanical Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
  - 1. Fabricate splice joints for field connection using an epoxy structural adhesive if this is manufacturer's standard splicing method.
- H. Form changes in direction as follows:
  - 1. As detailed.
  - 2. By radius bends of radius indicated, or, by inserting prefabricated elbow fittings of radius indicated.
- I. Bend members in jigs to produce uniform curvature for each configuration required; maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.
- J. Close exposed ends of hollow railing members with prefabricated end fittings.
- K. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, handrail brackets, miscellaneous fittings, and anchors to interconnect railing members to other work where indicated.
  - 1. At brackets and fittings fastened to plaster or gypsum board partitions, provide crush-resistant fillers, or other means to transfer loads through wall finishes to structural supports and to prevent bracket or fitting rotation and crushing of substrate.
- L. Provide inserts and other anchorage devices for connecting railings to concrete or masonry work. Fabricate anchorage devices capable of withstanding loads imposed by railings. Coordinate anchorage devices with supporting structure.

## 2.10 FABRICATION OF GLASS PANELS AND BALUSTERS

- A. Fabricate glass to sizes and shapes required; provide for proper edge clearance and bite on glazing panels.
- B. Structural Glass Balusters: Provide tempered structural glass balusters.
  - 1. Edge Finish: Grind smooth and flat polish exposed edges of glass, including those at open joints, to produce smooth, square edges with glass edge finishes.
  - 2. Factory-bond structural glass balusters to aluminum base and top-rail channels in railing manufacturer's plant using glazing cement to comply with manufacturer's written instructions, unless field glazing is standard with manufacturer.
  - 3. Fabricate structural glass balusters to maintain equal length glass widths and uniform spacing of 1/2 inch between glass balusters.

## 2.11 METAL FINISH REQUIREMENTS, GENERAL

- A. Protect mechanical finishes on exposed surfaces from damage by applying a strippable,

temporary protective covering before shipment.

## 2.12 STAINLESS STEEL FINISHES

- A. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
- B. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
  - 1. Run grain of directional finishes with long dimension of each piece.
  - 2. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.
- C. Stainless Steel Tubing Finishes:
  - 1. 180-Grit Polished Finish: Uniform, directionally textured finish.
- D. Stainless Steel Sheet, Strip, Plate, and Bar Finishes:
  - 1. Directional Satin Finish: ASTM A480/A480M, No. 4.

## PART 3 - EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. Comply with Drawings and manufacturer's written instructions for installing glazed decorative metal railings, accessories, and other components.
- B. Perform cutting, drilling, and fitting required for installing metal railings.
  - 1. Fit exposed connections together to form tight, hairline joints.
  - 2. Install railings level, plumb, square, true to line; without distortion, warp, or rack.
  - 3. Set railings accurately in location, alignment, and elevation; measured from established lines and levels.
  - 4. Do not weld, cut, or abrade surfaces of metal railing components that have been coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
  - 5. Set posts plumb within a tolerance of 1/16 inch in 3 feet.
  - 6. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.
- C. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.
  - 1. Coat concealed surfaces of aluminum that will be in contact with grout, concrete, masonry, wood, or dissimilar metals, with bituminous paint.
- D. Adjust railings before anchoring to ensure matching alignment at abutting joints.
- E. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.

### 3.2 METAL RAILING CONNECTIONS

- A. Expansion Joints: Install expansion joints at locations indicated, but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve extending 2 inches beyond joint on either side, fasten internal sleeve securely to one side, and locate joint within 6 inches of post.

### 3.3 INSTALLATION OF GLASS BALUSTERS

- A. Structural Glass Railings:
  - 1. Install assembly to comply with railing manufacturer's written instructions.
  - 2. Attach base channel to building structure, then insert and connect factory-fabricated and -assembled glass balusters if glass was bonded to base and top-rail channels in factory.
  - 3. For field-assembled balusters, attach base channel to building structure, insert glass in base channel, and bond with glazing cement.
    - a. Support glass balusters in base channel at quarter points with channel-shaped setting blocks that also act as shims to maintain uniform space for glazing cement.
    - b. Fill remaining space in base channel with glazing cement for uniform support of glass.
  - 4. Adjust spacing of glass balusters so gaps between balusters are equal before securing in position.

### 3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections and to prepare test reports. Payment for these services will be made by Owner.
- B. Extent and Testing Methodology: Testing agency will randomly select completed railing assemblies for testing that are representative of different railing designs and conditions in the completed Work. Test railings in accordance with ASTM E894, ASTM E935, ASTM E2353, and ASTM E2358 for compliance with performance requirements.
- C. Remove and replace railings where test results indicate that they do not comply with specified requirements unless they can be repaired in a manner satisfactory to Architect and comply with specified requirements.
- D. Perform additional testing and inspecting, at Contractor's expense, to determine compliance of replaced or additional work with specified requirements.

### 3.5 CLEANING

- A. Clean aluminum and stainless steel by washing thoroughly with water and soap, rinsing with clean water, and wiping dry.
- B. Clean and polish glass as recommended in writing by manufacturer. Wash both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion.

3.6 PROTECTION

- A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.
- B. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

**END OF SECTION 05 7313**

Attachment "B"  
SCOPE OF WORK  
TC-023 – Misc. Steel

UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION  
FORM OF PROPOSAL: TC-023 Misc. Steel

Project No. 2564.0 Project Title: UK Construct Health Education Building

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: \_\_\_\_\_  
(NAME AND ADDRESS OF BIDDER)

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

TO: BID CLERK  
UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION  
PROCUREMENT  
RM. 322 SERVICE BUILDING  
LEXINGTON, KY. 40506-0005

INVITATION TO BID: **CCK-2564-0-15-25**  
BID OPENING DATE: **October 9<sup>th</sup>, 2024**  
TIME 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

(Here insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

Attachment "B"  
SCOPE OF WORK  
TC-023 – Misc. Steel

Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

**Alternates: None**

**SUPERINTENDENT**

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent's qualifications and or past projects.

\_\_\_\_\_  
List the Superintendent's Name

**The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.**

Attachment "B"  
SCOPE OF WORK  
TC-023 – Misc. Steel

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation).
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. **CCK-2564.0-15-25** have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455.
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted.
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner, and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_





**Attachment "B"**  
**SCOPE OF WORK**  
**TC-023 – Misc. Steel**

THE FOLLOWING ITEMS ARE HERewith ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

---

(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

Attachment "B"  
 SCOPE OF WORK  
 TC-023 – Misc. Steel

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Unit Prices with the bid.*

Material	Unit (LF, SF, EA, etc.)	Unit Price
Stainless Steel Railings	LF	
Window Washing Anchor	EA	
Operable Partition Supports	EA	

Attachment "B"  
SCOPE OF WORK  
TC-023 – Misc. Steel

HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

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PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
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BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1	Engineering & Layout, Permits & Fees					\$
2	Shop drawings and Submittals					\$
3	Mobilizations					\$
4	Gratings			EA		\$
5	Medical Supports			EA		\$
6	Toilet Partition Hangers			EA		\$
8	Operable Partition Supports			EA		\$
9	Accordion Fire Door Supports			EA		\$
10	Stair A			TN		\$
11	Structural Anchors			EA		\$
12	Window Washing Systems			EA		\$
13	Ladders			EA		\$
14	Stainless Steel Railings			LF		\$
14	General Work Requirements					\$
15	Safety					\$
16	Overhead & Profit					\$
Please list and breakdown below any work that has not been listed above						
17						\$
18						\$
19						\$
<b>Allowances (to be included in bid amount)</b>						
1	Document Control Server Allowance					\$3,000
2	Miscellaneous Steel Alterations Allowance					\$25,000
3	Additional Tower Crane Coordination Allowance					\$160,000 (ADD #2)

Total Labor Hours = \_\_\_\_\_

<b>TOTAL BID AMOUNT</b> (This amount should match the Lump Sum listed on Form of Proposal)	\$
Cost of Payment & Performance Bond (DO NOT INCLUDE THIS COST IN BID AMOUNT)	\$

Attachment "B"  
SCOPE OF WORK  
TC-023 – Misc. Steel

SCOPE OF WORK

A.	GENERAL
1.	This Trade Contractor is required to sign Turner form 36 subcontract agreement included in the scope of work manual, which takes precedence over the General & Special Conditions.
2.	The General Building Permit will be provided by the others (architect). Obtain all other required permits; submit copies to the Construction Manager.
3.	Provide labor, material, equipment, and all else necessary to furnish and install complete the Scope of Work as required by the contract documents and as outlined below
4.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
5.	The intention is to have the successful Subcontractor perform all the related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
6.	Detail references are included for convenience but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
7.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."
8.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed
9.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
10.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
11.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
12.	Refer to <b>Project General Work Requirements</b> in the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors and they shall include those costs in their respective total lump sum bid price.

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample Attachment A and Bid Recording Sheet</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b>
	<ul style="list-style-type: none"> <li>a. Attachment C - Safety Program</li> <li>b. Attachment E - Accounting Procedures</li> <li>c. Attachment F - Percentage Markup</li> <li>d. Attachment G - BP-04 Bid Schedule</li> <li>e. Attachment H - BIM General Requirements</li> <li>f. Attachment I - LEAN Subcontract Exhibit</li> <li>g. Attachment K - CCIP Manual</li> </ul>

Attachment "B"  
SCOPE OF WORK  
TC-023 – Misc. Steel

	<ul style="list-style-type: none"> <li>h. Attachment L - Tree Protection Standards</li> <li>i. Attachment N – Turner Subcontractor Onboarding</li> <li>j. Attachment O – UK HEB Enhancing Worker Experience Plan</li> </ul>
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – Logistics Plans</li> <li>b. SK-002 – BMP Plan</li> <li>c. SK-003 – Temp Power Plan</li> </ul>
6.	<b>Specifications</b>
	<p>The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below.</p> <ul style="list-style-type: none"> <li>a. <b>03 3000 – Cast-In-Place Concrete (as applicable to this Scope of Work)</b></li> <li>b. <b>05 1000 – Structural Anchors</b></li> <li>c. <b>05 1200 – Structural Steel Framing (as applicable to this Scope of Work)</b></li> <li>d. <b>05 1213 -- Architecturally Exposed Structural Steel</b></li> <li>e. <b>05 5000 – Metal Fabrications</b></li> <li>f. <b>05 5113 – Metal Pan Stairs (as applicable to this Scope of Work)</b></li> <li>g. <b>05 5213 – Pipe and Tube Railings</b></li> <li>h. <b>05 5313 – Bar Gratings</b></li> <li>i. <b>07 8413 – Penetration Firestopping (ADD #2)</b></li> <li>j. <b>07 8443 – Joint Firestopping (ADD #2)</b></li> <li>k. <b>07 9200 – Joint Sealants (ADD #2)</b></li> <li>l. <b>08 1173.13 – Accordion Fire &amp; Smoke Rated Doors with Egress (as applicable to this Scope of Work) (ADD #2)</b></li> <li>m. <b>08 3300 – Side Coiling Doors (as applicable to this Scope of Work) (ADD #2)</b></li> <li>n. <b>08 3343 – Overhead Coiling Smoke Doors (as applicable to this Scope of Work) (ADD #2)</b></li> <li>o. <b>10 2113.19 – Plastic Toilet Compartments (as applicable to this Scope of Work) (ADD #2)</b></li> <li>p. <b>10 2239 – Folding Panel Partitions (as applicable to this Scope of Work) (ADD #2)</b></li> <li>q. <b>10 2241 – Automatically Vertically Retractable Acoustic Wall (as applicable to this Scope of Work) (ADD #2)</b></li> <li>r. <b>11 2423 – Window Washing Systems (as applicable to this Scope of Work)</b></li> <li>s. <b>11 7010 – Medical Equipment Support Systems</b></li> <li>t. <b>11 5300 – Laboratory Equipment (ADD #2)</b></li> <li>u. <b>11 7200 – Examination and Treatment Equipment (ADD #2)</b></li> <li>v. <b>31 2001 – SWPPP (ADD #2)</b></li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

<b>C.</b>	<b>SPECIFIC SCOPE ITEMS</b>
1.	This contractor shall <b>verify conditions</b> are suitable for Plumbing and Mechanical Riser installation prior to beginning installation. This includes installation of the equipment provided by others. Include coordination of final location of equipment provided by others, including feeds into and out of the equipment.
2.	The contract price shall not be altered for any work that could have been <b>reasonably inferred</b> from the Contract Documents. The following items are listed as examples of the intent of this statement, but is not limited to these items alone: <ul style="list-style-type: none"> <li>a. Variations to avoid interference and obstructions.</li> <li>b. Providing all Plumbing and Mechanical components and services usually supplied with a specific system.</li> </ul>

Attachment "B"  
SCOPE OF WORK  
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	<p>c. The providing of all necessary plumbing and mechanical equipment and appurtenances, whether shown or not, for a complete operating system in strict code compliance based on equipment and fixtures indicated on the Contract Documents.</p> <p>Testing performed in accordance with the requirements of the Contract Documents to meet the needs of the construction schedule and to not delay the work of other trades.</p>
3.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment to provide all <b>STRUCTURAL SUPPORTS &amp; ANCHORS</b> as required by the Contract Documents and in accordance with Division 05. This includes the design and analysis of structural steel supports and connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work. Coordinate all supports in shafts with shaft wall construction and provide required fire stopping to meet rated shaft requirements.</p> <p>a. All systems must meet seismic and structural requirements as indicated on the structural drawings.</p> <p>b. Provide and install all support and all blocking for all Miscellaneous Steel. All equipment supports, isolators, and conduit supports required to complete this scope shall be furnished and installed by this Trade Contractor. This includes any miscellaneous metals, hangers, bridging, etc. Structural supports associated with any items installed in Trade Contractor's work.</p> <p>c. This contractor shall provide all <b>Fireproof Patching</b> that has been removed for installation of hangers and support for this scope.</p> <p>d. This Trade Contractor shall provide and install any curbs and/or housekeeping pads, concrete anchors for all equipment, etc. contained in this work scope. This includes pads that are not shown on the contract drawings, yet required for the work of this contract. This includes concrete for any pre-purchased equipment by the owner. This Trade Contractor shall coordinate size and layout of pads. Provide BIM modeling and coordination for review and approval prior to placement of Pads</p>
4.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment to provide <b>BAR GRATINGS (PARTIAL)</b> as shown in the Contract Documents and in accordance with section 05 5313. This includes the design and analysis of structural steel connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <p>a. Elevator pit gratings are provided by others. This contractor to provide all other gratings including but not limited to areaways.</p>
5.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment to provide <b>ARCHITECTURALLY EXPOSED STRUCTURAL STEEL</b> as shown in the Contract Documents and in accordance with section 05 1213. This includes the design and analysis of structural steel connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <p>a. This trade contractor is to provide and install Stair A. All other Metal Pan Stairs will be provided and installed by TC-016 (Structural Steel Contractor).</p> <p>b. This contractor shall pay special attention to AESS requirements listed in the specifications.</p>
6.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment to provide all <b>METAL FABRICATIONS (PARTIAL)</b> as shown in the Contract Documents and in accordance with section 05 1000. This includes the design and analysis of structural steel connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work, including, but not limited to:</p> <p>a. This contractor to provide all interior and exterior ladders, with the exception of elevator pit ladders provided by others.</p> <p>b. This contractor to provide all supports for coiling doors, operable walls, folding partitions, accordion fire &amp; smoke doors, &amp; toilet compartments. Coordinate design and installation with approved shop drawings for these systems provided by others. Reference architectural &amp; structural drawings for more information.</p>
7.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment to provide all <b>WINDOW WASHING SYSTEMS</b> as shown in the Contract Documents and in accordance with section 11 2423. This Trade Contractor shall reference D/S-405 and architectural drawings for locations and quantities. This includes the design and analysis of structural steel connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p>



Attachment "B"  
SCOPE OF WORK  
TC-023 – Misc. Steel

	<ul style="list-style-type: none"> <li>a. This contractor shall furnish all anchors to the TC-016 structural steel contractor to field weld all anchors to structural steel.</li> <li>b. This contractor to include all testing of the systems.</li> </ul>
8.	This Trade Contractor shall include all materials, labor, tools, and equipment to provide all <b>MEDICAL EQUIPMENT SUPPORT SYSTEMS</b> as shown in the Contract Documents and in accordance with section 11 7010. This includes the design and analysis of structural steel connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.
9.	This Trade Contractor shall include all materials, labor, tools, and equipment to provide <b>PIPE AND TUBE RAILINGS (partial)</b> as shown in the Contract Documents and in accordance with section 05 5213. This includes the design and analysis of structural steel connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work, including, but not limited to: <ul style="list-style-type: none"> <li>a. This contractor to provide all stainless steel and aluminum handrail and brackets.</li> <li>b. Steel railings and pickets are provided by others.</li> </ul>
10.	This contractor shall follow specifications and AISC requirements for weld inspections and reporting. These reports shall be submitted to the CM. A summary of the sequence is as follows: <ul style="list-style-type: none"> <li>a. Welding inspection reports from fabrication shall be submitted prior to steel arriving onsite.</li> <li>b. Erection contractor shall submit welding certificates for individuals performing welds, including continuity log to show weld certs are current.</li> <li>c. Erection foreman shall keep an electronic weld map and note which prequalified tradesman welds each location. Map shall include time and date weld was complete.</li> <li>d. Erection Foreman (if qualified or qualified individual) shall visually inspect all field welds and note date and time of visual inspection.</li> <li>e. This Trade Contractor to provide their own dedicated fire watch during hot work activities and welding blankets provided to protect existing installations below (waterproofing, foam board, etc.). All fire extinguishers for hot work activities are to be provided by this Trade Contractor.</li> <li>f. Once the above is complete, the Owner's testing agency shall inspect welds in accordance with AISC standards.</li> </ul>
11.	<b>Temporary power</b> will not be available. This Trade Contractor will need to provide their own power and welders for the scope of work and provide generators for other power that will be required. At no time shall the noise generated by generators or welders be overwhelming or disruptive to the campus operations. Generators shall be placed to minimize noise and exhaust impacts.
12.	This Contractor is to include all <b>Building Information Modeling</b> per the contract documents. Refer to attachment H for BIM requirements associated with this scope. All costs for the BIM process for this scope of work shall be included in the base bid. Include the scheduled Document Control Server Allowance for Box server use and hardware/software. <ul style="list-style-type: none"> <li>a. This Trade Contractor shall be responsible to reflect the actual location of steel where connections are to be made with existing work in the BIM.</li> </ul>

D.	EXCLUSIONS
	The Scope of Work shall exclude the following:
1.	Payment & Performance Bond
2.	Metal Pan Stairs B, C, D, and E.
3.	Lintels in Masonry Wall
4.	Precast panel support assemblies
5.	South Patio Handrails
6.	Steel railings and pickets
7.	Elevator pit gratings & ladders

Attachment "B"  
SCOPE OF WORK  
TC-023 – Misc. Steel

E. ALLOWANCES	
	<p>The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices &amp; written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.</p> <p>Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.</p>
1.	Document Control Server Allowance - \$3,000
2.	Miscellaneous Steel Alterations - \$25,000
3.	<b>Additional Tower Crane Coordination Allowance - \$160,000</b>

F. SCHEDULE	
1.	Schedule information is included within the bid manual ( <b>Attachment G</b> ) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.
2.	<b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b> It is <b>absolutely critical</b> that the work of this contract be completed by the dates define. Shift work, multiple mobilizations, and out of sequence work will be required. It is imperative that all milestones be met. The Bidders shall include all necessary costs, including, but not limited to, premium time, shift work, out of sequence work, equipment, supervision, etc. to meet these milestones.
3.	<p>Due to the critical nature of the schedule, the Trade Contactor must supply the Construction Manager a detailed plan for his production on the project within 20 calendar days of Contract Award. Please note that this plan must be compatible and complimentary to the Project Schedule. Plan shall include the following items:</p> <ul style="list-style-type: none"> <li>a. Starting, peak, and final manpower requirements, including subcontractors. Include production rates if requested.</li> <li>b. Shift work plan.</li> <li>c. Number of Foremen.</li> <li>d. Anticipated lead times and permit approval.</li> <li>e. The Trade Contractor shall work with the Construction Manager and Contractors in "Pull Planning" and the 6-week look-ahead schedule, including manpower information, on a weekly basis. Compliance is a prerequisite for payment.</li> </ul>

G. ALTERNATES	
1.	The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.
ALT.1	None

Attachment "B"  
SCOPE OF WORK  
TC-023 – Misc. Steel

BIDDER’S PROPOSED MAJOR SUBCONTRACTORS AND SUPPLIERS

**\*\*\*DUE BY BID DEADLINE\*\*\***

For the purposes of this form, a major subcontractor or supplier is a person or entity that will have a direct or assigned contract or purchase order for the performance or supply of any item listed below if the bidder is successful.

All subcontractors must comply with the laws of the Commonwealth of Kentucky and the policies and procedures of the University of Kentucky as administrated by the UK Capital Construction Procurement Section and Capital Project Management Division.

If the bidder will self-perform these items, list "Self-Perform" for each applicable item.

No major subcontractor or supplier may be added or changed without written consent of the Owner’s representative after the bid deadline.

<u>ITEM or DIVISION OF WORK</u>	<u>NAME AND ADDRESS OF SUBCONTRACTOR</u>
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_____	_____
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LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

***The apparent low bidders will be required to complete and submit the following information by twelve o'clock (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.***

MATERIALS AND EQUIPMENT

BRAND OR MANUFACTURER


Attachment "B"  
SCOPE OF WORK  
TC-023 – Misc. Steel

BIDDER ECONOMIC INCLUSION EFFORTS

The University of Kentucky is committed to serving as an advocate for diverse businesses and Kentucky located businesses. Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran, and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled. To be deemed a Kentucky located Business a company must have a physical facility located in the Commonwealth of Kentucky that is engaged in on-going business operations.

The University is committed to increasing the amount of goods and services acquired from businesses owned and controlled by diverse persons to 10% of all procurement expenditures. The University expects its suppliers to support and assist in this effort.

The University is also dedicated to increasing the amount of goods and services acquired from Kentucky located companies to the greatest extent possible in support of our economic development efforts.

If the total dollar amount of these contracts does not meet the University's goals for DBE and local businesses, you must provide documentation of your good faith efforts as part of your Determination of Responsibility submittal.

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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3. Kentucky Located Subcontractors

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4. Kentucky Located Materials Suppliers

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Attachment "B"  
SCOPE OF WORK  
TC-024 – Roofing

UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION  
FORM OF PROPOSAL: TC-024 Roofing

Project No. 2564.0 Project Title: UK Construct Health Education Building

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: \_\_\_\_\_  
(NAME AND ADDRESS OF BIDDER)

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

TO: BID CLERK INVITATION TO BID: **CCK-2564.0-15-25**  
UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION BID OPENING DATE: **October 9<sup>th</sup>, 2024**  
PROCUREMENT TIME **3:00 P.M. E.D.T.**  
RM. 322 SERVICE BUILDING  
LEXINGTON, KY. 40506-0005

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

(Here insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

Attachment "B"  
SCOPE OF WORK  
TC-024 – Roofing

Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

**Alternates: None**

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent's qualifications and or past projects.

\_\_\_\_\_  
List the Superintendent's Name

**The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.**

Attachment "B"  
SCOPE OF WORK  
TC-024 – Roofing

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation).
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. **CCK-2564.0-15-25** have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455.
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted.
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner, and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_



**Attachment "B"**  
**SCOPE OF WORK**  
**TC-024 – Roofing**

**BUSINESS CLASSIFICATION**

Please complete this form which is necessary for the University of Kentucky vendor database.  
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- |   |   |
|---|---|
| (01)___ Small Business                  | (06)___ Woman-Owned Large Business                  |
| (02)___ Large Business                  | (07)___ Disadvantaged Woman-Owned<br>Small Business |
| (03)___ Disadvantaged Small<br>Business | (08)___ Disadvantaged Woman-Owned<br>Large Business |
| (04)___ Disadvantaged Large<br>Business | (09)___ Other                                       |
| (05)___ Woman-Owned Small Business      |   |

**DEFINITIONS**

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include: Asian, Black/African American, Hispanic or Latino, Native American, Native Hawaiian/Pacific Islander, Women, Disabled, Veteran and Disabled Veteran and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals as defined above, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day-to-day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

**Attachment "B"**  
**SCOPE OF WORK**  
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THE FOLLOWING ITEMS ARE HERewith ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

---

(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

Attachment "B"  
 SCOPE OF WORK  
 TC-024 – Roofing

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Unit Prices with the bid.*

Material	Unit (LF, SF, EA, etc.)	Unit Price
TPO Roof Membrane	SF	
Roof Pavers	SF	
"Witches Hats"	EA	
Metal Coping	LF	

Attachment "B"  
SCOPE OF WORK  
TC-024 – Roofing

HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
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PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
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BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1	Engineering & Layout, Permits & Fees,					\$
2	Shop drawings and Submittals					\$
3	Mobilizations					\$
4	TPO Roofing					\$
5	Roof Specialties					\$
6	Roof Accessories					\$
7	Roof Pavers					\$
8	Roof Protection					\$
9	Expansion Joints					\$
10	General Work Requirements					\$
11	Safety					\$
12	Overhead & Profit					\$
Please list and breakdown below any work that has not been listed above						
13						\$
14						\$
15						\$
<b>Allowances (to be included in bid amount)</b>						
1	Document Control Server Allowance					\$ 3,000
2	Additional Roof Flashing Allowance					\$ 25,000

Total Labor Hours = \_\_\_\_\_

<b>TOTAL BID AMOUNT</b> (This amount should match the Lump Sum listed on Form of Proposal)	\$
Cost of Payment & Performance Bond (DO NOT INCLUDE THIS COST IN BID AMOUNT)	\$

Attachment "B"  
SCOPE OF WORK  
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SCOPE OF WORK

A.	GENERAL
1.	This Trade Contractor is required to sign Turner form 36 subcontract agreement included in the scope of work manual, which takes precedence over the General & Special Conditions.
2.	The General Building Permit will be provided by the others (architect). Obtain all other required permits; submit copies to the Construction Manager.
3.	Provide labor, material, equipment, and all else necessary to furnish and install complete the Scope of Work as required by the contract documents and as outlined below
4.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
5.	The intention is to have the successful Subcontractor perform all the related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
6.	Detail references are included for convenience but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
7.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."
8.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed
9.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
10.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
11.	Subcontractor understands that time is of the essence in the prosecution of Work under this agreement.
12.	<b>Refer to Project General Work Requirements</b> in the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors and they shall include those costs in their respective total lump sum bid price.

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample Attachment A and Bid Recording Sheet</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b>
	<ul style="list-style-type: none"> <li>a. Attachment C – Safety Program</li> <li>b. Attachment E – Accounting Procedures</li> <li>c. Attachment F – Percentage Markup</li> <li>d. Attachment G – BP-04 Bid Schedule</li> <li>e. Attachment H – BIM General Requirements</li> <li>f. Attachment I – LEAN Subcontract Exhibit</li> <li>g. Attachment K – CCIP Manual</li> <li>h. Attachment L – Tree Protection Standards</li> <li>i. Attachment N – Turner Subcontractor Onboarding</li> </ul>

Attachment "B"  
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	j. Attachment O – UK HEB Enhancing Worker Experience Plan
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – Logistics Plans</li> <li>b. SK-002 – BMP Plan</li> <li>c. SK-003 – Temp Power Plan</li> </ul>
6.	<b>Specifications</b>
	<p>The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below.</p> <ul style="list-style-type: none"> <li>a. <b>06 1000 – Rough Carpentry (for reference only)</b></li> <li>b. <b>06 1600 – Sheathing (for reference only)</b></li> <li>c. <b>06 1700 – Engineering Framing Systems (for reference only)</b></li> <li>d. <b>07 2100 – Thermal Insulation (for reference only)</b></li> <li>e. <b>07 5423 – Thermoplastic-Polyolefin (TPO) Roofing</b></li> <li>f. <b>07 6200 – Sheet Metal Flashing and Trim</b></li> <li>g. <b>07 7100 – Roof Specialties</b></li> <li>h. <b>07 7200 – Roof Accessories</b></li> <li>i. <b>07 7600 – Roof Pavers</b></li> <li>j. <b>07 8413 -- Penetration Firestopping (ADD #2)</b></li> <li>k. <b>07 8443 – Joint Firestopping (ADD #2)</b></li> <li>l. <b>07 9200 – Joint Sealants (ADD #2)</b></li> <li>m. <b>07 9513.16 – Exterior Expansion Joint Cover Assemblies</b></li> <li>n. <b>31 2001 – SWPPP (ADD #2)</b></li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

<b>C. SPECIFIC SCOPE ITEMS</b>	
1.	This contractor shall <b>verify conditions</b> are suitable for Roofing installation prior to beginning installation. This includes installation of the equipment provided by others. Include coordination of final location of equipment provided by others, including feeds into and out of the equipment.
2.	<p>The contract price shall not be altered for any work that could have been <b>reasonably inferred</b> from the Contract Documents. The following items are listed as examples of the intent of this statement, but is not limited to these items alone:</p> <ul style="list-style-type: none"> <li>a. Variations to avoid interference and obstructions.</li> <li>b. Providing all roofing components and services usually supplied with a specific system.</li> <li>c. The providing of all necessary roofing equipment and appurtenances, whether shown or not, for a complete operating system in strict code compliance based on equipment and fixtures indicated on the Contract Documents.</li> <li>d. Testing performed in accordance with the requirements of the Contract Documents to meet the needs of the construction schedule and to not delay the work of other trades.</li> <li>e. This contractor shall coordinate with the Owner's testing / inspection agency for all inspections needed. Assume 1 weeks notice will need to be given for all inspections.</li> </ul>
3.	<p>This Trade Contractor shall provide all <b>THERMOPLASTIC-POLYOLEFIN (TPO) ROOFING</b> as shown on the Contract Documents and in accordance with section 07 5423. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work, including, but not limited to:</p> <ul style="list-style-type: none"> <li>a. Provide new TPO roofing as shown on Sheet A-181, A-182, and A-183. Roofing schedule is also noted on Sheet A-181.</li> </ul>



Attachment "B"  
SCOPE OF WORK  
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	<ul style="list-style-type: none"> <li>b. Flash and seal all roof-mounted accessories penetrating the roof system including mechanical curbs, roof drains, vents, screen walls, window washing anchors, etc. <ul style="list-style-type: none"> <li>i. Provide an additional 25 ea. "witches-hat" flashing in base bid to flash unforeseen conditions as directed by the CM.</li> </ul> </li> <li>c. Coordinate roof ladder(s) installation to ensure proper flashing.</li> <li>d. This Trade Contractor is responsible for final cleaning the roof when contract work is complete. Provide an ADDITIONAL final cleaning of the entire roof surface just prior to the "roof punch list" or as directed by the CM. Assume separate mobilization for additional cleaning.</li> <li>e. Include an additional \$10,000 in materials and an additional 160 hours for roofing repairs and corrections to be directed by the CM.</li> </ul>
4.	<p>This Trade Contractor shall provide all <b>SHEET METAL FLASHING AND TRIM (as related to this scope of work)</b> as shown on the Contract Documents and in accordance with section 07 6200. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work, including, but not limited to:</p> <ul style="list-style-type: none"> <li>a. Provide all SMFT to provide a complete water-tight assembly associated with the roofing system.</li> <li>b. Coordinate flashing with General Trades, Precast, and Curtain Wall contractors.</li> <li>c. This Trade Contractor shall note that details J/A-393, D/A-561, K/A-563, A/A-566, and F/A-569 are included with this scope of work.</li> </ul>
5.	<p>This Trade Contractor shall provide all <b>ROOF SPECIALTIES</b> as shown on the Contract Documents and in accordance with section 07 7100. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work, including, but not limited to:</p> <ul style="list-style-type: none"> <li>a. Provide new walkway pads, metal coping, splash pans, downspouts and brackets, gutters, drip edges, and wire ball strainers as shown in the Contract Documents.</li> <li>b. Anchor all products with manufacturer required devices, fasteners, and fastener spacing to meet performance requirements.</li> <li>c. Remove temporary protective coverings and strippable films as roof specialties are installed. On completion of installation, clean finished surfaces, including removing unused fasteners, metal filings, pop rivet stems, and pieces of flashing.</li> </ul>
6.	<p>This Trade Contractor shall provide all <b>ROOF ACCESSORIES</b> as shown on the Contract Documents and in accordance with section 07 7200. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p>
7.	<p>This Trade Contractor shall provide all <b>ROOF PAVERS</b> as shown on the Contract Documents and in accordance with section 07 7600. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p>
8.	<p>This Trade Contractor shall provide all <b>JOINT SEALANTS (as related to this scope of work)</b> as shown on the Contract Documents and in accordance with section 07 9200. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p>
9.	<p>This Trade Contractor shall provide all <b>EXTERIOR EXPANSION JOINT COVER ASSEMBLIES (as related to this scope of work)</b> as shown on the Contract Documents and in accordance with section 07 9513 &amp; 07 9513.16. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <ul style="list-style-type: none"> <li>a. Include all expansion joint assemblies integral to providing a complete water-tight roof system (roof-to-roof and roof-to-wall).</li> <li>b. Provide and install all required reinforced vapor barriers.</li> <li>c. Ensure compatibility with vertical expansion joint system by others.</li> <li>d. See A-566 for additional details on applications to be provided.</li> </ul>
10.	<p>Two tower cranes will be available for use for this scope of work.</p> <ul style="list-style-type: none"> <li>a. Crane operator hours are (5) 10-hour days plus an additional (1) 8-hour day each week as needed. Any use outside of this time will be this Trade Contractor's responsibility to pay for the additional costs.</li> <li>b. See SK-001 for crane size and locations.</li> <li>c. See General Requirements for crane usage priority list.</li> </ul>
11.	<p>This Trade Contractor shall participate in the construction of the on-site mock-ups. This shall include providing the materials required for this trade contract scope of work, coordinating with other trade</p>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-024 – Roofing**

	contractors regarding sequencing of installations and protection of materials, etc. Furnish shop drawing and / or setting drawings for this purpose.
12.	TC-024 shall provide and install 20,000 square feet of roof protection after final roof membrane is installed. Roof protection shall consist of 2" rigid insulation and minimum 1/2" treated plywood sheathing that is to be installed and removed as directed by the CM. Coordinate materials with roofing manufacturer to ensure compatibility. Assume (2) separate mobilizations to remove roof protection.

<b>D.</b>	<b>EXCLUSIONS</b>
	The Scope of Work shall exclude the following:
1.	Payment & Performance Bond
2.	Loading Dock roof

<b>E.</b>	<b>ALLOWANCES</b>
	The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices & written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.  Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.
1.	Document Control Server Allowance - \$3,000
2.	Additional Roof Flashing Allowance - \$25,000

<b>F.</b>	<b>SCHEDULE</b>
1.	Schedule information is included within the bid manual ( <b>Attachment G</b> ) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.
2.	<b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b> It is <b>absolutely critical</b> that the work of this contract be completed by the dates define. Shift work, multiple mobilizations, and out of sequence work will be required. It is imperative that all milestones be met. The Bidders shall include all necessary costs, including, but not limited to, premium time, shift work, out of sequence work, equipment, supervision, etc. to meet these milestones.
3.	Due to the critical nature of the schedule, the Trade Contractor must supply the Construction Manager a detailed plan for his production on the project within 20 calendar days of Contract Award. Please note that this plan must be compatible and complimentary to the Project Schedule. Plan shall include the following items: <ul style="list-style-type: none"> <li>a. Staring, peak, and final manpower requirements, including subcontractors. Include production rates if requested.</li> <li>b. Shift work plan.</li> <li>c. Number of Foremen</li> <li>d. Anticipated lead times and permit approval.</li> <li>e. The Trade Contractor shall work with the Construction Manager and Contractors in "Pull Planning" and the 6-week look-ahead schedule, including manpower information, on a weekly basis. Compliance is a prerequisite for payment.</li> </ul>

<b>G.</b>	<b>ALTERNATES</b>
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**Attachment "B"**  
**SCOPE OF WORK**  
**TC-024 – Roofing**

1.	The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.
ALT.1	None

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-024 – Roofing**

BIDDER'S PROPOSED MAJOR SUBCONTRACTORS AND SUPPLIERS

**\*\*\*DUE BY BID DEADLINE\*\*\***

For the purposes of this form, a major subcontractor or supplier is a person or entity that will have a direct or assigned contract or purchase order for the performance or supply of any item listed below if the bidder is successful.

All subcontractors must comply with the laws of the Commonwealth of Kentucky and the policies and procedures of the University of Kentucky as administered by the UK Capital Construction Procurement Section and Capital Project Management Division.

If the bidder will self-perform these items, list "Self-Perform" for each applicable item.

No major subcontractor or supplier may be added or changed without written consent of the Owner's representative after the bid deadline.

ITEM or DIVISION OF WORK

NAME AND ADDRESS OF SUBCONTRACTOR


**Attachment "B"**  
**SCOPE OF WORK**  
**TC-024 – Roofing**

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

*The apparent low bidders will be required to complete and submit the following information **by twelve o'clock (12) noon of the first working day following the bid opening.** The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.*

MATERIALS AND EQUIPMENT

BRAND OR MANUFACTURER

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-024 – Roofing**

**BIDDER ECONOMIC INCLUSION EFFORTS**

The University of Kentucky is committed to serving as an advocate for diverse businesses and Kentucky located businesses. Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran, and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled. To be deemed a Kentucky located Business a company must have a physical facility located in the Commonwealth of Kentucky that is engaged in on-going business operations.

The University is committed to increasing the amount of goods and services acquired from businesses owned and controlled by diverse persons to 10% of all procurement expenditures. The University expects its suppliers to support and assist in this effort.

The University is also dedicated to increasing the amount of goods and services acquired from Kentucky located companies to the greatest extent possible in support of our economic development efforts.

If the total dollar amount of these contracts does not meet the University's goals for DBE and local businesses, you must provide documentation of your good faith efforts as part of your Determination of Responsibility submittal.

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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3. Kentucky Located Subcontractors

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4. Kentucky Located Materials Suppliers

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Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION  
FORM OF PROPOSAL: TC-025 Mechanical Risers

Project No. 2564.0 Project Title: UK Construct Health Education Building

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: \_\_\_\_\_  
(NAME AND ADDRESS OF BIDDER)

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

TO: BID CLERK  
UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION  
PROCUREMENT  
RM. 322 SERVICE BUILDING  
LEXINGTON, KY. 40506-0005

INVITATION TO BID: **CCK-2564.0-15-25**  
BID OPENING DATE: **October 9<sup>th</sup>, 2024**  
TIME **3:00 P.M. E.D.T.**

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

(Here insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

**Alternates: None**

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent's qualifications and or past projects.

\_\_\_\_\_  
List the Superintendent's Name

**The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.**



Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation).
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. **CCK-2564-15-25** have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455.
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted.
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner, and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-025 Mechanical Risers**

**BUSINESS CLASSIFICATION**

Please complete this form which is necessary for the University of Kentucky vendor database.  
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- |                                      |  |
|--------------------------------------|--|
| (01)___ Small Business               | (06)___ Woman-Owned Large Business               |
| (02)___ Large Business               | (07)___ Disadvantaged Woman-Owned Small Business |
| (03)___ Disadvantaged Small Business | (08)___ Disadvantaged Woman-Owned Large Business |
| (04)___ Disadvantaged Large Business | (09)___ Other                                    |
| (05)___ Woman-Owned Small Business   |  |

**DEFINITIONS**

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include: Asian, Black/African American, Hispanic or Latino, Native American, Native Hawaiian/Pacific Islander, Women, Disabled, Veteran and Disabled Veteran and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals as defined above, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day-to-day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-025 Mechanical Risers**

THE FOLLOWING ITEMS ARE HERewith ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

---

(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-025 Mechanical Risers**

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Unit Prices with the bid.*

Material	Unit (LF, SF, EA, etc.)	Unit Price
Ductwork	LB	
Duct Insulation	SF	
Welded Piping	LF by Size	
Copper Piping	LF by Size	
Pipe Insulation	LF by Size	
Hangers	EA by Size	
Fire Stopping Penetration for Ductwork	EA	
Fire Stopping Penetration for Piping	EA	

Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1.	Engineering & Layout, Permits & Fees, Mobilizations					\$
2.	Shop drawings and Submittals					\$
3.	BIM Coordination					\$
4.	Receive/Install AHUs Provided by Others					\$
	Mechanical Equipment					
5.	Ductwork, VAV Boxes, Reheat Coils & Duct Accessories					\$
6.	Ductwork Insulation					\$
7.	FSD Test Support & Adjust					\$
8.	Pressure Test and Seal Ductwork Risers					\$
9.	Piping, Pumps, RPBP, & Piping Accessories					\$
10.	Mechanical Piping Insulation					\$
11.	Pressure Test and Seal Piping Risers					\$
12.	Startup, Test and Commission Equipment					\$
13.	Firestopping					\$
14.	General Work Requirements					\$
15.	Safety					\$
16.	Overhead & Profit					\$
Please list and breakdown below any work that has not been listed above						
17.						\$
18.						\$
19.						\$
<b>Allowances (to be included in bid amount)</b>						
1.	Document Control Server Allowance					\$3,000
2.	Project BIM Coordinator Allowance					\$45,000
3.	Mechanical Riser Controls Contractor Allowance					\$4,000,000 (ADD #2)
4.	Temporary Utility Consumption Allowance					\$50,000

Total Labor Hours = \_\_\_\_\_

<b>TOTAL BID AMOUNT</b>					\$
(This amount should match the Lump Sum listed on Form of Proposal)					
Cost of Payment & Performance Bond <b>(DO NOT INCLUDE THIS COST IN BID AMOUNT)</b>					\$

Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

SCOPE OF WORK

A.	GENERAL
1.	This Trade Contractor is required to sign <b>Turner Form 36</b> subcontract agreement included in the scope of work manual, which takes precedence over the General & Special Conditions.
2.	The <b>General Building Permit</b> will be provided by the others (architect). Obtain all other required permits; submit copies to the Construction Manager.
3.	Provide labor, material, equipment, and all else necessary to furnish and install complete the Scope of Work as required by the contract documents and as outlined below
4.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
5.	The intention is to have the successful Subcontractor perform all the related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
6.	Detail references are included for convenience but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
7.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."
8.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed
9.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
10.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
11.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
12.	<b>Refer to Project General Work Requirements</b> in the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors and they shall include those costs in their respective total lump sum bid price.

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample Attachment A and Bid Recording Sheet</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<p><b>Attachments</b></p> <ul style="list-style-type: none"> <li>a. Attachment C - Safety Program</li> <li>b. Attachment E - Accounting Procedures</li> <li>c. Attachment F - Percentage Markup</li> <li>d. Attachment G - BP-04 Bid Schedule</li> <li>e. Attachment H - BIM General Requirements</li> <li>f. Attachment I - LEAN Subcontract Exhibit</li> <li>g. Attachment K - CCIP Manual</li> <li>h. Attachment L - Tree Protection Standards</li> <li>i. Attachment N – Turner Subcontractor Onboarding</li> </ul>



Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

	j. Attachment O – UK HEB Enhancing Worker Experience Plan
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – Logistics Plans</li> <li>b. SK-002 – BMP Plan</li> <li>c. SK-003 – Temp Power Plan</li> </ul>
6.	<b>Specifications</b>
	<p>The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below.</p> <ul style="list-style-type: none"> <li>a. <b>05 1000 Structural Anchors (as applicable)</b></li> <li>b. <b>05 5000 Metal Fabrications (as applicable)</b></li> <li>c. <b>07 8413 - Penetration Firestopping (ADD #2)</b></li> <li>d. <b>07 8443 – Joint Firestopping (ADD #2)</b></li> <li>e. <b>07 9200 – Joint Sealants (ADD #2)</b></li> <li>f. <b>Division 20 (Complete)</b></li> <li>g. <b>Division 23 (Complete)</b></li> <li>h. <b>Division 25 (Complete)</b></li> <li>i. <b>Division 26 (Complete) (ADD #2)</b></li> <li>j. <b>31 2001 – SWPPP (ADD #2)</b></li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

C.	SPECIFIC SCOPE ITEMS
1.	<p>This contractor shall <b>verify conditions</b> are suitable for Mechanical Riser installation prior to beginning installation. This includes installation of the equipment provided by others.</p> <ul style="list-style-type: none"> <li>a. Include coordination of final location of equipment provided by others, including feeds into and out of the equipment.</li> </ul>
2.	<p>The contract price shall not be altered for any work that could have been <b>reasonably inferred</b> from the Contract Documents. The following items are listed as examples of the intent of this statement, but is not limited to these items alone:</p> <ul style="list-style-type: none"> <li>a. Variations to avoid interference and obstructions.</li> <li>b. Providing all Mechanical components and services usually supplied with a specific system.</li> <li>c. The providing of all necessary mechanical equipment and appurtenances, whether shown or not, for a complete operating system in strict code compliance based on equipment and fixtures indicated on the Contract Documents.</li> <li>d. Testing performed in accordance with the requirements of the Contract Documents to meet the needs of the construction schedule and to not delay the work of other trades.</li> </ul>
3.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment to provide all <b>STRUCTURAL SUPPORTS &amp; ANCHORS</b> as required by the Contract Documents and in accordance with Division 05. This includes the design and analysis of structural steel supports and connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work. Coordinate all supports in shafts with shaft wall construction and provide required fire stopping to meet rated shaft requirements.</p> <ul style="list-style-type: none"> <li>a. All systems must meet seismic and structural requirements as indicated on the structural drawings.</li> <li>b. Provide and install all support and all blocking for all Mechanical &amp; related equipment and cabinets. All equipment supports, isolators, and conduit supports required to complete this scope shall be furnished and installed by this Trade Contractor. This includes any miscellaneous metals, hangers, bridging, etc. Structural supports associated with any items installed in Trade Contractor's work.</li> </ul>

**Attachment "B"**  
**SCOPE OF WORK**  
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	<ul style="list-style-type: none"> <li>c. This contractor shall provide all <b>Fireproof Patching</b> that has been removed for installation of hangers and support for this scope.</li> <li>d. This Trade Contractor shall provide and install any curbs and/or housekeeping pads, concrete anchors for all equipment, etc. contained in this work scope. This includes pads that are not shown on the contract drawings, yet required for the work of this contract. This includes concrete for any pre-purchased equipment by the owner. This Trade Contractor shall coordinate size and layout of pads. Provide BIM modeling and coordination for review and approval prior to placement of Pads.</li> <li>e. <b>Anchor installation shall be coordinated with Fireproofing contractor. Assume installation of a "shorter" rod prior to fireproofing installation and coupling and installing rods to final length after fireproofing is complete. (ADD #2)</b></li> </ul>
4.	<p><b>Label and identify</b> all piping and components associated with this contract as required in the contract documents.</p>
5.	<p>This Contractor shall Receive and Install all <b>Air Handler Units (AHUs) provided by others</b> as noted in the contract documents. Coordinate receiving with Manufacturer's Representatives delivery dates and project schedules. Review all equipment provided by Equipment Manufacturer in TC-018, for field installations, confirming all components for field installations.</p> <ul style="list-style-type: none"> <li>a. This Contractor shall provide a Preliminary TAB Report for Air Balance at the completion of Startup of the Air Handlers. Provide Air Flow at shaft discharge based on Mechanical Engineer Air Flow Riser Diagrams. This will require removal and replacement of caps on ductwork and adjustment of balance dampers for gross airflow at discharge or intake ducts at shafts. Provide temp filters at all duct intakes for this Balancing.</li> <li>b. This Contractor shall provide 2 complete sets of construction filters, and 2 sets of final filters. One set of final filters is to be installed prior to Commissioning, the second set is delivered to the University or installed as directed by the University.</li> </ul>
6.	<p>This Trade Contractor shall provide all <b>Mechanical Equipment, Associated Materials, and Accessories</b> as shown on the Contract Documents and in accordance with Divisions 20 &amp; 23. This includes but is not limited to Exhaust Fans, Laboratory Exhaust Fans, Stair Pressurization Fans, Pumps, Heat Recovery Chiller, Piping Equipment, Piping Accessories, Supply Fans, Louvers, Sound Attenuators, Gravity Hoods, Fan Coils, and all Equipment shown on Mechanical Schedules for a complete and operational system. This includes all material, labor, tools, equipment, supplies, anchorage, transportation, and taxes, to complete this scope of work.</p> <ul style="list-style-type: none"> <li>a. This Trade Contractor shall provide condensate drains to approved drain location for all equipment installed by this contractor (whether provided by this contractor or others).</li> <li>b. This contractor shall install the Generator Exhaust Muffler provided by others. This scope will include all piping, fittings, connections, insulation, supports, misc. steel for supports, and accessories for complete connection to Generator and discharge location.</li> </ul>
7.	<p>This Contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Hydronic Piping</b> system as shown in the contract documents and in accordance with Division 23. This includes, but is not limited to: Steam Piping, Steam Pressure Reducing Systems, Condensate Piping</p> <ul style="list-style-type: none"> <li>a. Provide steam supply and return, condensate pump discharge systems, hot and chilled water supply and return piping systems, heating hot water systems, equipment, etc.</li> <li>b. This contractor shall include <b>Insulation</b> of all piping. Include an additional 100 hours of miscellaneous piping insulation repair to be used at the direction of the CM.</li> <li>c. This Trade Contractor shall provide Hydro Testing of Piping Systems prior to installation of Insulation and shaft close. At completion and acceptance of Hydro Testing, piping is to be drained fully and air purged. A holding charge of Nitrogen is to be placed in all risers at completion of purging. Nitrogen &amp; Hydro Testing Plans and Holding Charge Plan are to be submitted and approved by the MEOR prior to start of testing. This Contractor will provide gauges at all piping that shows holding charge is being maintained.</li> <li>d. This Trade Contractor shall provide a complete Valve Chart of all piping valves located in the riser piping. Valve chart shall include a listing of all valves, locations, type, and Mfg.</li> <li>e. This Contractor must make all connections to underground utilities installed in previous work scope from a connection point 5 feet outside the foundation wall.</li> </ul>
8.	<p>This contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Mechanical Sheetmetal</b> system as shown in the contract documents and in accordance with</p>

Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

	<p>Division 23. This contractor shall include all ductwork from the Air Handlers, into the shafts, and stubbed out on to each respective floor</p> <ol style="list-style-type: none"> <li>This contractor shall include <b>Insulation</b> of all ductwork. Include an additional 100 hours of miscellaneous duct insulation repair to be used at the direction of the CM.</li> <li>This Trade Contractor shall provide a duct extension and access door at all FSD noted in the Contract Documents. Extension shall be of sufficient length to allow installation of access door of at least minimum size, or size as large as required for access and testing of the FSD. Coordinate this extension and installation with Manual Volume Damper installations.</li> <li>This Trade Contractor shall provide a Manual Balancing Damper at all branch ducts exiting a shaft. Dampers are to be sized to match duct size noted and provided per Specifications. Provide a blank off cap at all ducts to cleanliness.</li> <li>This Contractor shall provide Duct Leakage Testing as required in the contract documents. Leakage testing of the duct risers in shafts shall be conducted prior to insulation of the ductwork and close of shafts.</li> <li>This Trade Contractor shall provide labor and material to support testing and adjustment of Fire Smoke Dampers at the time of Third Party Testing near completion of the project. Assume this to be a separate mobilization near project completion.</li> <li>This contractor shall include all duct accessories and equipment including Exhaust Fans, Supply Fans, Louvers, Sound Attenuators, Gravity Hoods, Fan Coils, and all Equipment shown on Mechanical Schedules for a complete and operational system</li> </ol>
9.	<p>This Contractor shall provide all <b>Startup, Testing and Commissioning</b> for all equipment installed in this scope of work. Provide startup and testing plan for approval prior to commencing work scope. Provide all testing reports required for University and State Inspectors.</p>
10.	<p>This Contractor shall provide participation and assistance during <b>Final Commissioning</b> of all equipment and systems installed in this scope of work near the substantial completion of the project. This contractor shall assume a remobilization for this work.</p>
11.	<p>This Trade Contractor shall furnish and install all <b>sleeves and blockouts</b> for this contractor's penetrations of walls, floors, and roof. The cutting of metal deck as required to install the work shall be included. Any reinforcement of the deck that is required but not shown on the structural drawings is to be included in this work. This Trade Contractor is responsible for all curbs, thimbles, counter flashings, clamping rings, sealants, etc., required at roof penetrations of material and equipment covered by this work. This would include but not be limited to vents flashings, and any special curbs or flashing required. This contractor shall coordinate with the construction manager and the TC-020 CIP Shafts and Decks contractor to install all sleeves prior to concrete placement. Assume multiple mobilizations are needed. Any and all costs for core drilling required for mechanical systems raceways due to failure to coordinate the installation of sleeves and/or their incorrect location will be borne by this contractor.</p> <ol style="list-style-type: none"> <li>Per UK standards, all sleeves/blockouts shall be a minimum of 1.5" above finished floor. This work scope shall include "metal collars" (sealed) as necessary for any existing or new sleeve installations not 1.5" above the finished floor elevation (not concrete elevation). This Trade Contractor is responsible for protection of all sleeves installed for (or existing) their scope of work.</li> <li>This contractor is to gain fire stopping inspection at the floor level PRIOR to installing the 1.5" metal collar. The installation of the metal collar and floor fire stopping shall not be in one action preventing proper fire stop inspection.</li> <li>All roof penetrations are to be included in this work scope. This contractor is to include all costs to repair/tie-in/patch the roofing utilizing the TC-024 roofing contractor of record. This includes any work included in this contract. Any roof or floor protection required for the movement of workmen or equipment is to be included.</li> <li>All openings installed under this scope are the sole responsibility of this contractor to ensure that they are water tight prior to their end of shift. This contractor shall coordinate openings with proper trades.</li> <li>This contractor shall provide all <b>Firestopping</b> at all rated penetrations in coordination with installation of rated assemblies.</li> </ol>
12.	<p><b>Temporary Power</b> will not be available. This Trade Contractor will need to provide their own power and welders for the scope of work and provide generators for other power that will be required. At no time shall the noise generated by generators or welders be overwhelming or disruptive to the campus operations. Generators shall be placed to minimize noise and exhaust impacts.</p>

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TC-025 Mechanical Risers

13.	<p>The following scope of work for <b>HVAC Controls Instrumentation</b> has been issued as a separate stand-alone RFP. It is the expectation that this TC-025 Mechanical Risers contractor will enter into a contract with the successful Controls contractor once selected. TC-025 shall be responsible for the complete controls scope of work as it relates the Risers/Core &amp; Shell scope as summarized below.</p> <p>This Trade Contractor shall include all materials, labor, tools, and equipment required to install a complete and functioning <b>HVAC Controls Instrumentation</b> systems including, but not limited to, all scope of work noted in Drawings and Specifications.</p> <ul style="list-style-type: none"><li>a. Assume multiple deliveries for equipment to comply with project schedule and need.</li><li>b. All warranties are to start from the substantial completion date.</li><li>c. This supplier shall include participation in all start up, testing and commissioning of the Controls and associated / connected equipment and systems.</li><li>d. All applications are to be PICS &amp; BIBBS Compatible and Connectable</li><li>e. Provide all required Files to UEM</li><li>f. Provide Complete licenses for every point in each JACE</li><li>g. Provide all required controls and instrumentation devices including, but not limited to: control valves, flow meters, water pressure differential taps, flow switches, thermal wells, thermal and pressure sensors, current sensors, actuators, air flow monitoring stations, control dampers, etc. as needed for a complete and operational system. Provide coordination of locations of all control devices and device wells/taps with Mechanical, Plumbing and Electrical trade contractors.</li><li>h. Coordinate and provide all required connections, components, control devices, dampers and accessories, etc. needed for a complete installation of Controls for AHUs, VAVs, Phoenix Valves, Terminal Units, Exhaust Fans, and Fan Coil Units. This contractor shall also furnish all control programming, cabling, etc. not included with the AHU purchase. Provide and install all damper actuators for all control dampers.</li><li>i. This Trade Contractor shall provide interface with Life Safety systems, including but not limited to, Fire Alarm, Security, etc. Provide all raceways and cables connecting HVAC Controls devices to these systems.</li><li>j. Connect to systems installed by others and coordinate with systems installed in this contract. This includes, but not limited to, FSDs, Control Panels, Security Panels, VFDs, Air Valves, Terminal Boxes, etc.</li><li>k. This contractor will provide all required BIM modeling for all controls. This includes, but is not limited to: all installations above ceilings, access zones, and all control panels for coordination with other trades and proper access and maintenance. The intent is to BIM coordinate devices and conduit in wall. Reference Attachment H for additional details.</li><li>l. This Contractor is to furnish all VFDs as shown on the contract documents. This includes start-up, commissioning, and warranty. This includes all necessary accessories for a complete installation. This contractor shall deliver VFDs to Electrical Contractor for installation and coordinate with Electrical Contractor for their installation of Power Wiring and wiring connections to equipment served. The Controls Contractor to provide all signal and low voltage conduit and wiring for the VFD's.</li><li>m. Provide all conduit and all low voltage wiring and/or fiber cables as required for full connections and terminations to all devices.</li><li>n. This contractor is to provide all Control Dampers as shown on the contract documents. These are to be delivered to the respective HVAC Contractors for installation. Testing, adjusting and commissioning of control dampers by Controls Contractor. All Control Dampers will have individual actuators.</li><li>o. All conduits to be color coded. See specifications for color coding requirements.</li><li>p. Provide all conduit and controls wiring for complete connection and operation to all equipment shown in Controls Drawings for all operational points as listed or as required for Sequence of Operation of each respective piece of equipment or system.<ul style="list-style-type: none"><li>i. This Contractor will provide all raceways and cables, etc. for a complete HVAC controls system, including connections to devices provided by other contractors; smoke detectors, elevators, lighting control panels, etc.</li><li>ii. This contractor to provide all conduits and wire necessary for CAT6A cabling required for network communications. Termination at EIDF Closet and activation of network to be provided by future Integrated Technology contractor.</li></ul></li></ul>
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Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

	<p>q. Provide all sleeves and embeds as required for Controls scope of work to meet construction schedules. Coordinate layout and installation with all trades as required. Contractor shall include all joint sealants and/or firestopping required for the penetration to meet the designed life safety standard.</p> <p>r. This contractor shall participate in start-up, testing, and commissioning for all systems they are associated with. Contractor is to coordinate with the Owner's commissioning agent. Contractor to assume multiple mobilizations for this. Contractor shall participate in all commissioning meetings as required by the Owner's agent.</p> <p>i. This contractor will provide all required technician support for all Commissioning of the HVAC, Fire Alarm, Security and Lighting Control Systems.</p> <p>ii. This contractor will provide complete detailed points lists as needed for Graphics Programming by UK PPD. Provide all required technician/programmer time necessary for coordination of points lists, field installation specific notes for addresses and locations, point to point testing information and other information needed for coordination of and completion of the HVAC Controls System Graphics.</p> <p>iii. This Contractor shall provide ALL Tridium interfaces, programming, naming conventions per UK PPD, etc. complete for ALL HVAC Controls, Lighting Control, and other representative systems other than the fire alarm system. UK PPD to create and complete graphics, this contractor to provide all nodes, interface signatures and addresses for the graphics development. Coordinate with UK PPD and Construction Manager to turn over complete and functioning Tridium system integration.</p> <ol style="list-style-type: none"> <li>1. Coordinate with Electrical Contractors to provide complete operating Tridium systems. Fire alarm programming and interface to Tridium is by Electrical Contractor.</li> <li>2. Points shall be named using the following format: (1) Building_Floor_RoomNumber_System_SubSystem_Component_ShortName_Function</li> <li>3. Reference instrumentation drawings for additional details regarding points list and details.</li> <li>4. The Controls Contractor is to utilize the entire drawing and specification set as a whole to formulate controls sequence. (ADD #2)</li> </ol>
14.	<p>This contractor is responsible for providing <b>Temporary Heat</b> to the building using the installed AHUs. This contractor is to have the heating from the basement to the 4<sup>th</sup> floor available for use by October 15<sup>th</sup>, 2025. This contractor is to provide a temporary heating plan including temporary controls for review and approval prior to start up.</p>
15.	<p>This contractor shall include <b>300 Journeyman Overtime Work Hours</b> to be used for schedule maintenance by the Construction Manager. The trade contractor must include all travel, per diem, fringes, OH&amp;P, etc. costs (a fully loaded rate) on these hours and they are only to be used by the trade contractor at the direction and approval of the Construction Manager. These hours will be logged and usage tracked. Usage of these hours can occur during the week or on Saturdays – no Sundays are intended.</p>
16.	<p>This Contractor is to include all <b>Build Information Modeling</b> per the contract documents. Refer to attachment H for BIM requirements associated with this scope. All costs for the BIM process for this scope of work shall be included in the base bid. Include the scheduled Document Control Server Allowance for Box server use and hardware/software, as well as the Project BIM Coordinator Allowance for 3rd party BIM manager directed by the Construction Manager. These allowances are not for the use of the MEP trades for their coordination.</p> <ol style="list-style-type: none"> <li>a. This Trade Contractor shall be responsible to reflect the actual location of piping, ductwork, and equipment where connections are to be made with existing work in the BIM.</li> <li>b. BIM Modeling under this scope of work will include all Controls conduits ¾" nominal size and larger.</li> <li>c. This Trade Contractor shall also include an additional 160 hours of BIM coordination to be used at the Owner/CM's discretion</li> </ol>
17.	<p>The intent is to utilize the coordination in the 3D model to prefabricate off-site as much material as possible. All materials possible will be <b>Prefabricated</b> and packaged for Just-in-Time delivery at the job site and be on wheels for delivery to the area of install. No pre-packaged or loose materials to be delivered to the job site that will not be installed within 4 days of delivery.</p> <ol style="list-style-type: none"> <li>a. The intent of this scope is to have <b>Prefabricated Risers</b> that can be dropped into the building using the available tower crane. The contractors' shop drawings should reflect this intended scope.</li> <li>b. This contractor is to provide any working platform and/or safety equipment needed to install the risers as required.</li> </ol>

Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

18.	Due to the size of this scope of work, provide a <b>full-time on-site Project Manager</b> for the duration of work. (ADD #2)
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<b>D.</b>	<b>EXCLUSIONS</b>
	The Scope of Work shall exclude the following:
1.	Payment & Performance Bond

<b>E.</b>	<b>ALLOWANCES</b>
	<p>The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices &amp; written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.</p> <p>Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.</p>
1.	Document Control Server Allowance - \$3,000
2.	Project BIM Coordinator Allowance - \$45,000
3.	<b>Mechanical Risers Controls Contractor Allowance - \$4,000,000 (ADD #2)</b>
4.	Temporary Utility Consumption Allowance – \$50,000

<b>F.</b>	<b>SCHEDULE</b>
1.	Schedule information is included within the bid manual ( <b>Attachment G</b> ) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.
2.	<b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b> It is <b>absolutely critical</b> that the work of this contract be completed by the dates define. Shift work, multiple mobilizations, and out of sequence work will be required. It is imperative that all milestones be met. The Bidders shall include all necessary costs, including, but not limited to, premium time, shift work, out of sequence work, equipment, supervision, etc. to meet these milestones.
3.	<p>Due to the critical nature of the schedule, the Trade Contactor must supply the Construction Manager a detailed plan for his production on the project within 20 calendar days of Contract Award. Please note that this plan must be compatible and complimentary to the Project Schedule. Plan shall include the following items:</p> <ol style="list-style-type: none"> <li>a. Starting, peak, and final manpower requirements, including subcontractors. Include production rates if requested.</li> <li>b. Shift work plan.</li> <li>c. Number of Foremen</li> <li>d. Anticipated lead times and permit approval.</li> <li>e. The Trade Contractor shall work with the Construction Manager and Contractors in "Pull Planning" and the 6-week look-ahead schedule, including manpower information, on a weekly basis. Compliance is a prerequisite for payment.</li> </ol>

Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

G.	ALTERNATES
1.	The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.
ALT.1	None

Attachment "B"  
SCOPE OF WORK  
TC-025 Mechanical Risers

BIDDER'S PROPOSED MAJOR SUBCONTRACTORS AND SUPPLIERS

**\*\*\*DUE BY BID DEADLINE\*\*\***

For the purposes of this form, a major subcontractor or supplier is a person or entity that will have a direct or assigned contract or purchase order for the performance or supply of any item listed below if the bidder is successful.

All subcontractors must comply with the laws of the Commonwealth of Kentucky and the policies and procedures of the University of Kentucky as administered by the UK Capital Construction Procurement Section and Capital Project Management Division.

If the bidder will self-perform these items, list "Self-Perform" for each applicable item.

No major subcontractor or supplier may be added or changed without written consent of the Owner's representative after the bid deadline.

ITEM or DIVISION OF WORK

NAME AND ADDRESS OF SUBCONTRACTOR

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**Attachment "B"**  
**SCOPE OF WORK**  
**TC-025 Mechanical Risers**

**BIDDER ECONOMIC INCLUSION EFFORTS**

The University of Kentucky is committed to serving as an advocate for diverse businesses and Kentucky located businesses. Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran, and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled. To be deemed a Kentucky located Business a company must have a physical facility located in the Commonwealth of Kentucky that is engaged in on-going business operations.

The University is committed to increasing the amount of goods and services acquired from businesses owned and controlled by diverse persons to 10% of all procurement expenditures. The University expects its suppliers to support and assist in this effort.

The University is also dedicated to increasing the amount of goods and services acquired from Kentucky located companies to the greatest extent possible in support of our economic development efforts.

If the total dollar amount of these contracts does not meet the University's goals for DBE and local businesses, you must provide documentation of your good faith efforts as part of your Determination of Responsibility submittal.

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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3. Kentucky Located Subcontractors

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4. Kentucky Located Materials Suppliers

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Attachment "B"  
SCOPE OF WORK  
TC-026 Plumbing Risers

UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION  
FORM OF PROPOSAL: TC-026 Plumbing Risers

Project No. 2564.0 Project Title: UK Construct Health Education Building

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: \_\_\_\_\_  
(NAME AND ADDRESS OF BIDDER)

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

TO: BID CLERK  
UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION  
PROCUREMENT  
RM. 322 SERVICE BUILDING  
LEXINGTON, KY. 40506-0005

INVITATION TO BID: **CCK-2564.0-15-25**  
BID OPENING DATE: **October 9<sup>th</sup>, 2024**  
TIME **3:00 P.M. E.D.T.**

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

(Here insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

**Attachment "B"**  
**SCOPE OF WORK**  
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Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

**Alternates: None**

**SUPERINTENDENT**

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent's qualifications and or past projects.

\_\_\_\_\_  
List the Superintendent's Name

**The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.**

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FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation).
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. **CCK-2564.0-15-25** have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455.
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted.
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner, and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_

**Attachment "B"**  
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BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.  
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- |   |   |
|---|---|
| (01)___ Small Business                  | (06)___ Woman-Owned Large Business                  |
| (02)___ Large Business                  | (07)___ Disadvantaged Woman-Owned<br>Small Business |
| (03)___ Disadvantaged Small<br>Business | (08)___ Disadvantaged Woman-Owned<br>Large Business |
| (04)___ Disadvantaged Large<br>Business | (09)___ Other                                       |
| (05)___ Woman-Owned Small Business      |   |

**DEFINITIONS**

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include: Asian, Black/African American, Hispanic or Latino, Native American, Native Hawaiian/Pacific Islander, Women, Disabled, Veteran and Disabled Veteran and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals as defined above, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day-to-day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

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THE FOLLOWING ITEMS ARE HERewith ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

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(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

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UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Unit Prices with the bid.*

Material	Unit (LF, SF, EA, etc.)	Unit Price
Welded Piping	LF by Size	
Copper Piping	LF by Size	
Pipe Insulation	LF by Size	
Hangers	EA by Size	
Testing Support	EA	
Fire Stopping	EA	



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HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

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PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

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BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1.	Engineering & Layout, Permits & Fees, Mobilizations					\$
2.	Shop drawings and Submittals					\$
3.	BIM Coordination					\$
4.	Sanitary Waste and Vent Piping					\$
5.	Domestic Water Piping					\$
	Storm Piping					
6.	Plumbing Piping Insulation					\$
7.	Pressure Test and Seal Piping Risers					\$
8.	Plumbing Equipment					\$
9.	Startup, Test and Commission Equipment					\$
10.	Firestopping					\$
11.	General Work Requirements					\$
12.	Safety					\$
13.	Overhead & Profit					\$
Please list and breakdown below any work that has not been listed above						
14.						\$
15.						\$
16.						\$
<b>Allowances (to be included in bid amount)</b>						
1	Document Control Server Allowance					\$3,000
2	Project BIM Coordinator Allowance					\$45,000
3	Temporary Utility Consumption Allowance					\$50,000

Total Labor Hours = \_\_\_\_\_

<b>TOTAL BID AMOUNT</b> (This amount should match the Lump Sum listed on Form of Proposal)	\$
<b>Cost of Payment &amp; Performance Bond</b> (DO NOT INCLUDE THIS COST IN BID AMOUNT)	\$

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SCOPE OF WORK

A.	GENERAL
1.	This Trade Contractor is required to sign Turner form 36 subcontract agreement included in the scope of work manual, which takes precedence over the General & Special Conditions.
2.	The General Building Permit will be provided by the others (architect). Obtain all other required permits; submit copies to the Construction Manager.
3.	Provide labor, material, equipment, and all else necessary to furnish and install complete the Scope of Work as required by the contract documents and as outlined below
4.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
5.	The intention is to have the successful Subcontractor perform all the related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
6.	Detail references are included for convenience but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
7.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."
8.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed
9.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
10.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
11.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
12.	<b>Refer to Project General Work Requirements</b> in the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors and they shall include those costs in their respective total lump sum bid price.

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample Attachment A and Bid Recording Sheet</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b>
	<ul style="list-style-type: none"> <li>a. Attachment C - Safety Program</li> <li>b. Attachment E - Accounting Procedures</li> <li>c. Attachment F - Percentage Markup</li> <li>d. Attachment G - BP-04 Bid Schedule</li> <li>e. Attachment H - BIM General Requirements</li> <li>f. Attachment I - LEAN Subcontract Exhibit</li> <li>g. Attachment K - CCIP Manual</li> <li>h. Attachment L - Tree Protection Standards</li> </ul>

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	<ul style="list-style-type: none"> <li>i. Attachment N – Turner Subcontractor Onboarding</li> <li>j. Attachment O – UK HEB Enhancing Worker Experience Plan</li> </ul>
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – Crane and Laydown Plan</li> <li>b. SK-002 – BMP Plan</li> <li>c. SK-003 – Temp Power Plan</li> </ul>
6.	<b>Specifications</b>
	<p>The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below.</p> <ul style="list-style-type: none"> <li>a. <b>05 1000 Structural Anchors (as applicable)</b></li> <li>b. <b>05 5000 Metal Fabrications (as applicable)</b></li> <li>c. <b>07 8413 Penetration Firestopping (ADD #2)</b></li> <li>d. <b>07 8443 – Joint Firestopping (ADD #2)</b></li> <li>e. <b>07 9200 – Joint Sealants (ADD #2)</b></li> <li>f. <b>Division 20 (Complete)</b></li> <li>g. <b>Division 22 (Complete)</b></li> <li>h. <b>31 2001 – SWPPP (ADD #2)</b></li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

<b>C.</b>	<b>SPECIFIC SCOPE ITEMS</b>
1.	<p>This contractor shall <b>verify conditions</b> are suitable for Plumbing Riser installation prior to beginning installation. This includes installation of the equipment provided by others.</p> <ul style="list-style-type: none"> <li>a. Include coordination of final location of equipment including feeds into and out of the equipment.</li> </ul>
2.	<p>The contract price shall not be altered for any work that could have been <b>reasonably inferred</b> from the Contract Documents. The following items are listed as examples of the intent of this statement, but is not limited to these items alone:</p> <ul style="list-style-type: none"> <li>a. Variations to avoid interference and obstructions.</li> <li>b. Providing all Plumbing components and services usually supplied with a specific system.</li> <li>c. The providing of all necessary plumbing equipment and appurtenances, whether shown or not, for a complete operating system in strict code compliance based on equipment and fixtures indicated on the Contract Documents.</li> <li>d. Testing performed in accordance with the requirements of the Contract Documents to meet the needs of the construction schedule and to not delay the work of other trades.</li> </ul>
3.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment to provide all <b>STRUCTURAL SUPPORTS &amp; ANCHORS</b> as required by the Contract Documents and in accordance with section 05 1000. This includes the design and analysis of structural steel supports and connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <ul style="list-style-type: none"> <li>a. All systems must meet seismic and structural requirements as indicated on the structural drawings.</li> <li>b. Provide and install all support and all blocking for all Plumbing &amp; related equipment and cabinets. All equipment supports, isolators, and conduit supports required to complete this scope shall be furnished and installed by this Trade Contractor. This includes any miscellaneous metals, hangers, bridging, etc. Structural supports associated with any items installed in Trade Contractor's work.</li> <li>c. This contractor shall provide all <b>Fireproof Patching</b> that has been removed for installation of hangers and support for this scope.</li> <li>d. This Trade Contractor shall provide and install any curbs and/or housekeeping pads, concrete anchors for all equipment, etc. contained in this work scope. This includes pads that are not shown on the contract drawings, yet required for the work of this contract. This includes concrete for any pre-</li> </ul>

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	<p>purchased equipment by the owner. This Trade Contractor shall coordinate size and layout of pads. Provide BIM modeling and coordination for review and approval prior to placement of Pads</p> <p>e. Anchor installation shall be coordinated with Fireproofing contractor. Assume installation of a "shorter" rod prior to fireproofing installation and coupling and installing rods to final length after fireproofing is complete. (ADD #2)</p>
4.	<p><b>Label and identify</b> all piping and components associated with this contract as required in the contract documents.</p>
5.	<p>This Contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Domestic Water</b> system as shown on the Contract Documents and in accordance with Division 22. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <p>a. This Trade Contractor shall provide a complete Valve Chart of all piping valves located in the riser piping. Valve chart shall include a listing of all valves, locations, type, and Mfg.</p> <p>b. Provide all piping <b>insulation</b>. Include an additional 100 hours of miscellaneous piping insulation repair to be used at the direction of the CM.</p> <p>c. Provide all water balancing as required for a complete system.</p> <p>d. Provide Flushing and Chlorination of Domestic Water systems.</p> <p>e. Provide all related equipment, including but not limited to booster pumps, vacuum pump, backflow preventers, water heaters, water softeners, etc. as shown on the plumbing schedules</p> <p>f. Installation, testing, and inspections shall be scheduled as sequenced by the Construction Manager, in order to not delay the progress of other trades. Multiple tests, comebacks, or inspections as may be required for this coordination are to be included. This contractor shall pre-test all piping with air prior to hydrostatic testing. The Construction Manager will witness these and hydrostatic tests. This Trade Contractor shall provide Hydro Testing of Domestic Piping Systems prior to installation of Insulation and shaft close.</p> <p>i. Provide a holding charge in all shaft piping with pressure gauge to show pressure is maintained.</p> <p>g. This Contractor must make all connections to underground utilities installed in previous work scope from a connection point 5 feet outside the foundation wall.</p>
6.	<p>This Trade Contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Sanitary Waste and Vent</b> system as shown on the Contract Documents and in accordance with Division 22. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <p>a. Provide connection(s) to existing piping previously roughed-in sanitary and vent systems. Include all new piping and any additional required rework/offsets and temporary means to install completed system. Remove all non-used existing piping back to the mains and cap. Include all test tees, sawcutting, testing, and concrete pour back, etc. as required to tie-in new piping at any floor areas as applicable.</p> <p>b. Provide all indirect waste piping and vents as required from equipment installed under this contract and Owner-furnished equipment to the nearest drain (or to another location if otherwise directed).</p> <p>c. Provide all piping <b>insulation</b>.</p> <p>d. This Contractor must make all connections to underground utilities installed in previous work scope from a connection point 5 feet outside the foundation wall.</p>
7.	<p>This Trade Contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Storm Water</b> system as shown on the Contract Documents and in accordance with Division 22. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <p>a. Provide connection(s) to existing piping previously roughed-in storm systems. Include all new piping and any additional required rework/offsets and temporary means to install completed system. Remove all non-used existing piping back to the mains and cap. Include all test tees, sawcutting, testing, and concrete pour back, etc. as required to tie-in new piping at any floor areas as applicable.</p> <p>b. Provide all piping <b>insulation</b>.</p> <p>c. This contractor shall include coordination of the installation of roof drains with TC-020 CIP Shafts and Decks and TC-024 Roofing contractors.</p>
8.	<p>This Trade Contractor shall provide all <b>Plumbing Equipment and Associated Materials</b> as shown on the Contract Documents and in accordance with Division 22. This includes the design and analysis of structural</p>

Attachment "B"  
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TC-026 Plumbing Risers

	steel connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work. This includes but is not limited to Air Compressor, Booster Pump, Recirculation Pump, RO System, Vacuum Pump, Steam Water Heaters, Water Softener, Roof Drains, Floor Drains (except for those in the basement slab on grade), Domestic Water Valves and Accessories for complete Plumbing Systems per the contract documents.
9.	This Contractor shall provide all <b>Startup, Testing and Commissioning</b> for all equipment installed in this scope of work. Provide startup and testing plan for approval prior to commencing work scope. Provide all testing reports required for University and State Inspectors.
10.	This Contractor shall provide participation and assistance during <b>Final Commissioning</b> of all equipment and systems installed in this scope of work near the substantial completion of the project. This contractor shall assume a remobilization for this work.
11.	<p>This Trade Contractor shall furnish and install all <b>sleeves and blockouts</b> for this contractor's penetrations of walls, floors, and roof. The cutting of metal deck as required to install the work shall be included. Any reinforcement of the deck that is required but not shown on the structural drawings is to be included in this work. This Trade Contractor is responsible for all curbs, thimbles, counter flashings, clamping rings, sealants, etc., required at roof penetrations of material and equipment covered by this work. This would include but not be limited to vents flashings, and any special curbs or flashing required. This contractor shall coordinate with the construction manager and the TC-020 CIP Shafts and Decks contractor to install all sleeve prior to concrete placement. Assume multiple mobilizations are needed. Any and all costs for core drilling required for plumbing systems raceways due to failure to coordinate the installation of sleeves and/or their incorrect location will be borne by this contractor.</p> <ol style="list-style-type: none"> <li>Per UK standards, all sleeves/blockouts shall be a minimum of 1.5" above finished floor. This work scope shall include "metal collars" (sealed) as necessary for any existing or new sleeve installations not 1.5" above the finished floor elevation (not concrete elevation). This Trade Contractor is responsible for protection of all sleeves installed for (or existing) their scope of work.</li> <li>This contractor is to gain fire stopping inspection at the floor level PRIOR to installing the 1.5" metal collar. The installation of the metal collar and floor fire stopping shall not be in one action preventing proper fire stop inspection.</li> <li>All roof penetrations are to be included in this work scope. This contractor is to include all costs to repair/tie-in/patch the roofing utilizing the TC-024 roofing contractor of record. This includes any work included in this contract. Any roof or floor protection required for the movement of workmen or equipment is to be included.</li> <li>All openings installed under this scope are the sole responsibility of this contractor to ensure that they are water tight prior to their end of shift. This contractor shall coordinate openings with proper trades.</li> <li>This contractor shall provide all <b>Firestopping</b> at all rated penetrations in coordination with installation of rated assemblies.</li> </ol>
12.	<b>Temporary Power</b> will not be available. This Trade Contractor will need to provide their own power and welders for the scope of work and provide generators for other power that will be required. At no time shall the noise generated by generators or welders be overwhelming or disruptive to the campus operations. Generators shall be placed to minimize noise and exhaust impacts.
13.	This contractor shall include <b>300 Journeyman Overtime Work Hours</b> to be used for schedule maintenance by the Construction Manager. The trade contractor must include all travel, per diem, fringes, OH&P, etc. costs (a fully loaded rate) on these hours and they are only to be used by the trade contractor at the direction and approval of the Construction Manager. These hours will be logged and usage tracked. Usage of these hours can occur during the week or on Saturdays – no Sundays are intended.
14.	<p>This Contractor is to include all <b>Build Information Modeling</b> per the contract documents. Refer to attachment H for BIM requirements associated with this scope. All costs for the BIM process for this scope of work shall be included in the base bid. Include the scheduled Document Control Server Allowance for Box server use and hardware/software, as well as the Project BIM Coordinator Allowance for 3rd party BIM manager directed by the Construction Manager. These allowances are not for the use of the MEP trades for their coordination.</p> <ol style="list-style-type: none"> <li>This Trade Contractor shall be responsible to reflect the actual location of piping where connections are to be made with existing work in the BIM</li> </ol>

Attachment "B"  
SCOPE OF WORK  
TC-026 Plumbing Risers

	b. This Trade Contractor shall also include an additional 160 hours of BIM coordination to be used at the Owner/CM's discretion
15.	The intent is to utilize the coordination in the 3D model to prefabricate off-site as much material as possible. All materials possible will be <b>Prefabricated</b> and packaged for Just-in-Time delivery at the job site and be on wheels for delivery to the area of install. No pre-packaged or loose materials to be delivered to the job site that will not be installed within 4 days of delivery. <ul style="list-style-type: none"> <li>a. The intent of this scope is to have <b>Prefabricated Risers</b> that can be dropped into the building using the available tower crane. The contractors' shop drawings should reflect this intended scope.</li> <li>b. This contractor is to provide any working platform and/or safety equipment needed to install the risers as required.</li> </ul>

D. EXCLUSIONS	
	The Scope of Work shall exclude the following:
1.	Payment & Performance Bond
2.	Installation of Air Handlers
3.	Floor drains in Basement slab on grade

E. ALLOWANCES	
	The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices & written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.  Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.
1.	Document Control Server Allowance - \$3,000
2.	Project BIM Coordinator Allowance - \$45,000
3.	Temporary Utility Consumption Allowance - \$50,000

F. SCHEDULE	
1.	Schedule information is included within the bid manual ( <b>Attachment G</b> ) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.
2.	<b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b> It is <b>absolutely critical</b> that the work of this contract be completed by the dates define. Shift work, multiple mobilizations, and out of sequence work will be required. It is imperative that all milestones be met. The Bidders shall include all necessary costs, including, but not limited to, premium time, shift work, out of sequence work, equipment, supervision, etc. to meet these milestones.
3.	Due to the critical nature of the schedule, the Trade Contactor must supply the Construction Manager a detailed plan for his production on the project within 20 calendar days of Contract Award. Please note that this plan must be compatible and complimentary to the Project Schedule. Plan shall include the following items: <ul style="list-style-type: none"> <li>a. Starting, peak, and final manpower requirements, including subcontractors. Include production rates if requested.</li> <li>b. Shift work plan.</li> <li>c. Number of Foremen</li> <li>d. Anticipate lead times and permit approval.</li> </ul>



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	e. The Trade Contractor shall work with the Construction Manager and Contractors in "Pull Planning" and the 6-week look-ahead schedule, including manpower information, on a weekly basis. Compliance is a prerequisite for payment.
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<b>G. ALTERNATES</b>	
1.	The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.
ALT.1	None





Attachment "B"  
SCOPE OF WORK  
TC-026 Plumbing Risers

BIDDER ECONOMIC INCLUSION EFFORTS

The University of Kentucky is committed to serving as an advocate for diverse businesses and Kentucky located businesses. Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran, and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled. To be deemed a Kentucky located Business a company must have a physical facility located in the Commonwealth of Kentucky that is engaged in on-going business operations.

The University is committed to increasing the amount of goods and services acquired from businesses owned and controlled by diverse persons to 10% of all procurement expenditures. The University expects its suppliers to support and assist in this effort.

The University is also dedicated to increasing the amount of goods and services acquired from Kentucky located companies to the greatest extent possible in support of our economic development efforts.

If the total dollar amount of these contracts does not meet the University's goals for DBE and local businesses, you must provide documentation of your good faith efforts as part of your Determination of Responsibility submittal.

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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3. Kentucky Located Subcontractors

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4. Kentucky Located Materials Suppliers

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Attachment "B"  
SCOPE OF WORK  
TC-026A Plumbing and Mechanical Risers Combo

UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION  
FORM OF PROPOSAL: TC-026A Plumbing and Mechanical Risers Combo

Project No. 2564.0 Project Title: UK Construct Health Education Building

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: \_\_\_\_\_  
(NAME AND ADDRESS OF BIDDER)

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

TO: BID CLERK  
UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION  
PROCUREMENT  
RM. 322 SERVICE BUILDING  
LEXINGTON, KY. 40506-0005

INVITATION TO BID: **CCK-2564.0-15-25**  
BID OPENING DATE: **October 9<sup>th</sup>, 2024**  
TIME **3:00 P.M. E.D.T.**

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

(Here insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

**Attachment "B"**  
**SCOPE OF WORK**  
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Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

*NOTE: In order for a Lump Sum Proposal to be accepted for the TC-026A Plumbing and Mechanical Risers Combination scope a proposal must be submitted on the TC-025 Mechanical Risers scope and the TC-026 Plumbing Risers scope from the participating contractor(s). Failure to do so may result in deeming this proposal as Non-Responsive and could be thrown out.*

**Alternates: None**

Attachment "B"  
SCOPE OF WORK  
*TC-026A Plumbing and Mechanical Risers Combo*

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent's qualifications and or past projects.

\_\_\_\_\_  
List the Superintendent's Name

*The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.*

Attachment "B"  
SCOPE OF WORK  
TC-026A Plumbing and Mechanical Risers Combo

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation).
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2564.0-15-25 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455.
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted.
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner, and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_



Attachment "B"  
SCOPE OF WORK  
TC-026A Plumbing and Mechanical Risers Combo

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.  
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- (01)\_\_\_ Small Business (06)\_\_\_ Woman-Owned Large Business  
(02)\_\_\_ Large Business (07)\_\_\_ Disadvantaged Woman-Owned Small Business  
(03)\_\_\_ Disadvantaged Small Business (08)\_\_\_ Disadvantaged Woman-Owned Large Business  
(04)\_\_\_ Disadvantaged Large Business (09)\_\_\_ Other  
(05)\_\_\_ Woman-Owned Small Business

**DEFINITIONS**

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include: Asian, Black/African American, Hispanic or Latino, Native American, Native Hawaiian/Pacific Islander, Women, Disabled, Veteran and Disabled Veteran and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals as defined above, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day-to-day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

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SCOPE OF WORK  
*TC-026A Plumbing and Mechanical Risers Combo*

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

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(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-026A Plumbing and Mechanical Risers Combo**

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Unit Prices with the bid.*

Material	Unit (LF, SF, EA, etc.)	Unit Price
Ductwork	LB	
Duct Insulation	SF	
Welded Piping	LF by Size	
Copper Piping	LF by Size	
Pipe Insulation	LF by Size	
Hangers	EA by Size	
Fire Stopping Penetration for Ductwork	EA	
Fire Stopping Penetration for Piping	EA	
Welded Piping	LF by Size	
Copper Piping	LF by Size	
Pipe Insulation	LF by Size	
Hangers	EA by Size	
Testing Support	EA	
Fire Stopping	EA	

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HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

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PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
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BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1.	Engineering & Layout, Permits & Fees, Mobilizations					\$
2.	Shop drawings and Submittals					\$
3.	BIM Coordination					\$
4.	Receive/Install AHUs Provided by Others					\$
5.	Mechanical Equipment					\$
6.	Ductwork, VAV Boxes, Reheat Coils & Duct Accessories					\$
7.	Ductwork Insulation					\$
8.	FSD Test Support & Adjust					\$
9.	Pressure Test and Seal Ductwork Risers					\$
10.	Piping, Pumps, RPBP, & Piping Accessories					\$
11.	Mechanical Piping Insulation					\$
12.	Sanitary Waste and Vent Piping					\$
13.	Domestic Water Piping					\$
14.	Storm Piping					\$
15.	Plumbing Piping Insulation					\$
16.	Plumbing Equipment					\$
17.	Pressure Test and Seal Piping Risers					\$
18.	Startup, Test and Commission Equipment					\$
19.	Firestopping					\$
20.	General Work Requirements					\$
21.	Safety					\$
22.	Overhead & Profit					\$
Please list and breakdown below any work that has not been listed above						
23.						\$
24.						\$
25.						\$
<b>Allowances (to be included in bid amount)</b>						
1.	Document Control Server Allowance					\$6,000
2.	Project BIM Coordinator Allowance					\$90,000
3.	Mechanical Riser Controls Contractor Allowance					\$4,000,000 (ADD#2)
4.	Temporary Utility Consumption Allowance					\$100,000

Total Labor Hours = \_\_\_\_\_

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<b>TOTAL BID AMOUNT</b> (This amount should match the Lump Sum listed on Form of Proposal)	\$
Cost of Payment & Performance Bond <b>(DO NOT INCLUDE THIS COST IN BID AMOUNT)</b>	\$

**Attachment "B"**  
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SCOPE OF WORK

A.	GENERAL
1.	This Trade Contractor is required to sign Turner form 36 subcontract agreement included in the scope of work manual, which takes precedence over the General & Special Conditions.
2.	The General Building Permit will be provided by the others (architect). Obtain all other required permits; submit copies to the Construction Manager.
3.	Provide labor, material, equipment, and all else necessary to furnish and install complete the Scope of Work as required by the contract documents and as outlined below
4.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
5.	The intention is to have the successful Subcontractor perform all the related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
6.	Detail references are included for convenience but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
7.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."
8.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed
9.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
10.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
11.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
12.	<b>Refer to Project General Work Requirements</b> in the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors and they shall include those costs in their respective total lump sum bid price.

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample Attachment A and Bid Recording Sheet</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b>
	<ul style="list-style-type: none"> <li>a. Attachment C - Safety Program</li> <li>b. Attachment E - Accounting Procedures</li> <li>c. Attachment F - Percentage Markup</li> <li>d. Attachment G - BP-04 Bid Schedule</li> <li>e. Attachment H - BIM General Requirements</li> <li>f. Attachment I - LEAN Subcontract Exhibit</li> <li>g. Attachment K - CCIP Manual</li> </ul>



**Attachment "B"**  
**SCOPE OF WORK**  
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	<ul style="list-style-type: none"> <li>h. Attachment L - Tree Protection Standards</li> <li>i. Attachment N – Turner Subcontractor Onboarding</li> <li>j. Attachment O – UK HEB Enhancing Worker Experience Plan</li> </ul>
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – Crane and Laydown Plan</li> <li>b. SK-002 – BMP Plan</li> <li>c. SK-003 – Temp Power Plan</li> </ul>
6.	<b>Specifications</b>
	<p>The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below.</p> <ul style="list-style-type: none"> <li>a. <b>05 1000 Structural Anchors (as applicable)</b></li> <li>b. <b>05 5000 Metal Fabrications (as applicable)</b></li> <li>c. <b>07 8413 - Penetration Firestopping (ADD #2)</b></li> <li>d. <b>07 8443 – Joint Firestopping (ADD #2)</b></li> <li>e. <b>07 9200 – Joint Sealants (ADD #2)</b></li> <li>f. <b>Division 20 (Complete)</b></li> <li>g. <b>Division 22 (Complete)</b></li> <li>h. <b>Division 23 (Complete)</b></li> <li>i. <b>Division 25 (Complete)</b></li> <li>j. <b>Division 26 (Complete) (ADD #2)</b></li> <li>k. <b>31 2001 – SWPPP (ADD #2)</b></li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

C.	SPECIFIC SCOPE ITEMS
1.	This contractor shall <b>verify conditions</b> are suitable for Plumbing and Mechanical Riser installation prior to beginning installation. This includes installation of the equipment provided by others. Include coordination of final location of equipment provided by others, including feeds into and out of the equipment.
2.	<p>The contract price shall not be altered for any work that could have been <b>reasonably inferred</b> from the Contract Documents. The following items are listed as examples of the intent of this statement, but is not limited to these items alone:</p> <ul style="list-style-type: none"> <li>a. Variations to avoid interference and obstructions.</li> <li>b. Providing all Plumbing and Mechanical components and services usually supplied with a specific system.</li> <li>c. The providing of all necessary plumbing and mechanical equipment and appurtenances, whether shown or not, for a complete operating system in strict code compliance based on equipment and fixtures indicated on the Contract Documents.</li> <li>d. Testing performed in accordance with the requirements of the Contract Documents to meet the needs of the construction schedule and to not delay the work of other trades.</li> </ul>
3.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment to provide all <b>STRUCTURAL SUPPORTS &amp; ANCHORS</b> as required by the Contract Documents and in accordance with Division 05. This includes the design and analysis of structural steel supports and connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work. Coordinate all supports in shafts with shaft wall construction and provide required fire stopping to meet rated shaft requirements.</p> <ul style="list-style-type: none"> <li>a. All systems must meet seismic and structural requirements as indicated on the structural drawings.</li> </ul>

**Attachment "B"**  
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	<ul style="list-style-type: none"> <li>b. Provide and install all support and all blocking for all Plumbing, Mechanical, and related equipment and cabinets. All equipment supports, isolators, and conduit supports required to complete this scope shall be furnished and installed by this Trade Contractor. This includes any miscellaneous metals, hangers, bridging, etc. Structural supports associated with any items installed in Trade Contractor's work.</li> <li>c. This contractor shall provide all <b>Fireproof Patching</b> that has been removed for installation of hangers and support for this scope.</li> <li>d. This Trade Contractor shall provide and install any curbs and/or housekeeping pads, concrete anchors for all equipment, etc. contained in this work scope. This includes pads that are not shown on the contract drawings, yet required for the work of this contract. This includes concrete for any pre-purchased equipment by the owner. This Trade Contractor shall coordinate size and layout of pads. Provide BIM modeling and coordination for review and approval prior to placement of Pads.</li> <li>e. <b>Anchor installation shall be coordinated with Fireproofing contractor. Assume installation of a "shorter" rod prior to fireproofing installation and coupling and installing rods to final length after fireproofing is complete. (ADD #2)</b></li> </ul>
4.	<p><b>Label and identify</b> all piping and components associated with this contract as required in the contract documents.</p>
5.	<p>This Contractor shall Receive and Install all <b>Air Handler Units (AHUs) provided by others</b> as noted in the contract documents. Coordinate receiving with Manufacturer's Representatives delivery dates and project schedules. Review all equipment provided by Equipment Manufacturer in TC-018, for field installations, confirming all components for field installations.</p> <ul style="list-style-type: none"> <li>a. This Contractor shall provide a Preliminary TAB Report for Air Balance at the completion of Startup of the Air Handlers. Provide Air Flow at shaft discharge based on Mechanical Engineer Air Flow Riser Diagrams. This will require removal and replacement of caps on ductwork and adjustment of balance dampers for gross airflow at discharge or intake ducts at shafts. Provide temp filters at all duct intakes for this Balancing.</li> <li>b. This Contractor shall provide 2 complete sets of construction filters, and 2 sets of final filters. One set of final filters is to be installed prior to Commissioning, the second set is delivered to the University or installed as directed by the University.</li> </ul>
6.	<p>This Trade Contractor shall provide all <b>Mechanical Equipment, Associated Materials, and Accessories</b> as shown on the Contract Documents and in accordance with Divisions 20 &amp; 23. This includes but is not limited to Exhaust Fans, Laboratory Exhaust Fans, Stair Pressurization Fans, Pumps, Heat Recovery Chiller, Piping Equipment, Piping Accessories, Supply Fans, Louvers, Sound Attenuators, Gravity Hoods, Fan Coils, and all Equipment shown on Mechanical Schedules for a complete and operational system. This includes all material, labor, tools, equipment, supplies, anchorage, transportation, and taxes, to complete this scope of work.</p> <ul style="list-style-type: none"> <li>a. This Trade Contractor shall provide condensate drains to approved drain location for all equipment installed by this contractor (whether provided by this contractor or others).</li> <li>b. This contractor shall install the Generator Exhaust Muffler provided by others. This scope will include all piping, fittings, connections, insulation, supports, misc. steel for supports, and accessories for complete connection to Generator and discharge location.</li> </ul>
7.	<p>This Contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Hydronic Piping</b> system as shown in the contract documents and in accordance with Division 23. This includes, but is not limited to: Steam Piping, Steam Pressure Reducing Systems, Condensate Piping</p> <ul style="list-style-type: none"> <li>a. Provide steam supply and return, condensate pump discharge systems, hot and chilled water supply and return piping systems, heating hot water systems, equipment, etc.</li> <li>b. This contractor shall include <b>Insulation</b> of all piping. Include an additional 100 hours of miscellaneous piping insulation repair to be used at the direction of the CM.</li> <li>c. This Trade Contractor shall provide Hydro Testing of Piping Systems prior to installation of Insulation and shaft close. At completion and acceptance of Hydro Testing, piping is to be drained fully and air purged. A holding charge of Nitrogen is to be placed in all risers at completion of purging. Nitrogen &amp; Hydro Testing Plans and Holding Charge Plan are to be submitted and approved by the MEOR prior to start of testing. This Contractor will provide gauges at all piping that shows holding charge is being maintained.</li> </ul>

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	<p>d. This Trade Contractor shall provide a complete Valve Chart of all piping valves located in the riser piping. Valve chart shall include a listing of all valves, locations, type, and Mfg.</p> <p>e. This Contractor must make all connections to underground utilities installed in previous work scope from a connection point 5 feet outside the foundation wall.</p>
8.	<p>This contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Mechanical Sheetmetal</b> system as shown in the contract documents and in accordance with Division 23. This contractor shall include all ductwork from the Air Handlers, into the shafts, and stubbed out on to each respective floor</p> <p>a. This contractor shall include <b>Insulation</b> of all ductwork. Include an additional 100 hours of miscellaneous duct insulation repair to be used at the direction of the CM.</p> <p>b. This Trade Contractor shall provide a duct extension and access door at all FSD noted in the Contract Documents. Extension shall be of sufficient length to allow installation of access door of at least minimum size, or size as large as required for access and testing of the FSD. Coordinate this extension and installation with Manual Volume Damper installations.</p> <p>c. This Trade Contractor shall provide a Manual Balancing Damper at all branch ducts exiting a shaft. Dampers are to be sized to match duct size noted and provided per Specifications. Provide a blank off cap at all ducts to cleanliness.</p> <p>d. This Contractor shall provide Duct Leakage Testing as required in the contract documents. Leakage testing of the duct risers in shafts shall be conducted prior to insulation of the ductwork and close of shafts.</p> <p>e. This Trade Contractor shall provide labor and material to support testing and adjustment of Fire Smoke Dampers at the time of Third Party Testing near completion of the project. Assume this to be a separate mobilization near project completion.</p> <p>f. This contractor shall include all duct accessories and equipment including Exhaust Fans, Supply Fans, Louvers, Sound Attenuators, Gravity Hoods, Fan Coils, and all Equipment shown on Mechanical Schedules for a complete and operational system</p>
9.	<p>This Contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Domestic Water</b> system as shown on the Contract Documents and in accordance with Division 22. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <p>a. This Trade Contractor shall provide a complete Valve Chart of all piping valves located in the riser piping. Valve chart shall include a listing of all valves, locations, type, and Mfg.</p> <p>b. Provide all piping <b>insulation</b>. Include an additional 100 hours of miscellaneous piping insulation repair to be used at the direction of the CM.</p> <p>c. Provide all water balancing as required for a complete system.</p> <p>d. Provide Flushing and Chlorination of Domestic Water systems.</p> <p>e. Provide all related equipment, including but not limited to booster pumps, vacuum pump, backflow preventers, water heaters, water softeners, etc. as shown on the plumbing schedules</p> <p>f. Installation, testing, and inspections shall be scheduled as sequenced by the Construction Manager, in order to not delay the progress of other trades. Multiple tests, comebacks, or inspections as may be required for this coordination are to be included. This contractor shall pre-test all piping with air prior to hydrostatic testing. The Construction Manager will witness these and hydrostatic tests. This Trade Contractor shall provide Hydro Testing of Domestic Piping Systems prior to installation of Insulation and shaft close.</p> <p>i. Provide a holding charge in all shaft piping with pressure gauge to show pressure is maintained.</p> <p>g. This Contractor must make all connections to underground utilities installed in previous work scope from a connection point 5 feet outside the foundation wall.</p>
10.	<p>This Trade Contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Sanitary Waste and Vent</b> system as shown on the Contract Documents and in accordance with Division 22. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <p>a. Provide connection(s) to existing piping previously roughed-in sanitary and vent systems. Include all new piping and any additional required rework/offsets and temporary means to install completed system. Remove all non-used existing piping back to the mains and cap. Include all test tees,</p>

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	<p>sawcutting, testing, and concrete pour back, etc. as required to tie-in new piping at any floor areas as applicable.</p> <p>b. Provide all indirect waste piping and vents as required from equipment installed under this contract and Owner-furnished equipment to the nearest drain (or to another location if otherwise directed).</p> <p>c. Provide all piping <b>insulation</b>.</p> <p>This Contractor must make all connections to underground utilities installed in previous work scope from a connection point 5 feet outside the foundation wall.</p>
11.	<p>This Trade Contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Storm Water</b> system as shown on the Contract Documents and in accordance with Division 22. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <p>a. Provide connection(s) to existing piping previously roughed-in storm systems. Include all new piping and any additional required rework/offsets and temporary means to install completed system. Remove all non-used existing piping back to the mains and cap. Include all test tees, sawcutting, testing, and concrete pour back, etc. as required to tie-in new piping at any floor areas as applicable.</p> <p>b. Provide all piping <b>insulation</b>.</p> <p>c. This contractor shall include coordination of the installation of roof drains with TC-020 CIP Shafts and Decks and TC-024 Roofing contractors.</p>
12	<p>This Trade Contractor shall provide all <b>Plumbing Equipment and Associated Materials</b> as shown on the Contract Documents and in accordance with Division 22. This includes the design and analysis of structural steel connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work. This includes but is not limited to Air Compressor, Booster Pump, Recirculation Pump, RO System, Vacuum Pump, Steam Water Heaters, Water Softener, Roof Drains, Floor Drains (except for those in the basement slab on grade), Domestic Water Valves and Accessories for complete Plumbing Systems per the contract documents.</p>
13.	<p>This Contractor shall provide all <b>Startup, Testing and Commissioning</b> for all equipment installed in this scope of work. Provide startup and testing plan for approval prior to commencing work scope. Provide all testing reports required for University and State Inspectors.</p>
14.	<p>This Contractor shall provide participation and assistance during <b>Final Commissioning</b> of all equipment and systems installed in this scope of work near the substantial completion of the project. This contractor shall assume a remobilization for this work.</p>
15.	<p>This Trade Contractor shall furnish and install all <b>sleeves and blockouts</b> for this contractor's penetrations of walls, floors, and roof. The cutting of metal deck as required to install the work shall be included. Any reinforcement of the deck that is required but not shown on the structural drawings is to be included in this work. This Trade Contractor is responsible for all curbs, thimbles, counter flashings, clamping rings, sealants, etc., required at roof penetrations of material and equipment covered by this work. This would include but not be limited to vents flashings, and any special curbs or flashing required. This contractor shall coordinate with the construction manager and the TC-020 CIP Shafts and Decks contractor to install all sleeves prior to concrete placement. Assume multiple mobilizations are needed. Any and all costs for core drilling required for plumbing and/or mechanical systems raceways due to failure to coordinate the installation of sleeves and/or their incorrect location will be borne by this contractor.</p> <p>a. Per UK standards, all sleeves/blockouts shall be a minimum of 1.5" above finished floor. This work scope shall include "metal collars" (sealed) as necessary for any existing or new sleeve installations not 1.5" above the finished floor elevation (not concrete elevation). This Trade Contractor is responsible for protection of all sleeves installed for (or existing) their scope of work.</p> <p>b. This contractor is to gain fire stopping inspection at the floor level PRIOR to installing the 1.5" metal collar. The installation of the metal collar and floor fire stopping shall not be in one action preventing proper fire stop inspection.</p> <p>c. All roof penetrations are to be included in this work scope. This contractor is to include all costs to repair/tie-in/patch the roofing utilizing the TC-024 roofing contractor of record. This includes any work included in this contract. Any roof or floor protection required for the movement of workmen or equipment is to be included.</p> <p>d. All openings installed under this scope are the sole responsibility of this contractor to ensure that they are water tight prior to their end of shift. This contractor shall coordinate openings with proper trades.</p>

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	<p>e. This contractor shall provide all Firestopping at all shaft penetrations at the time the shafts have been installed. Provide installations of the firestopping in coordination with the scheduled installation of the shaft walls per the Contract Schedule.</p>
16.	<p><b>Temporary Power</b> will not be available. This Trade Contractor will need to provide their own power and welders for the scope of work and provide generators for other power that will be required. At no time shall the noise generated by generators or welders be overwhelming or disruptive to the campus operations. Generators shall be placed to minimize noise and exhaust impacts.</p>
17.	<p>The following scope of work for <b>HVAC Controls Instrumentation</b> has been issued as a separate stand-alone RFP. It is the expectation that this TC-025 Mechanical Risers contractor will enter into a contract with the successful Controls contractor once selected. TC-025 shall be responsible for the complete controls scope of work as it relates the Risers/Core &amp; Shell scope as summarized below.</p> <p>This Trade Contractor shall include all materials, labor, tools, and equipment required to install a complete and functioning <b>HVAC Controls Instrumentation</b> systems including, but not limited to, all scope of work noted in Drawings and Specifications.</p> <ul style="list-style-type: none"> <li>a. Assume multiple deliveries for equipment to comply with project schedule and need.</li> <li>b. All warranties are to start from the substantial completion date.</li> <li>c. This supplier shall include participation in all start up, testing and commissioning of the Controls and associated / connected equipment and systems.</li> <li>d. All applications are to be PICS &amp; BIBBS Compatible and Connectable</li> <li>e. Provide all required Files to UEM</li> <li>f. Provide Complete licenses for every point in each JACE</li> <li>g. Provide all required controls and instrumentation devices including, but not limited to: control valves, flow meters, water pressure differential taps, flow switches, thermal wells, thermal and pressure sensors, current sensors, actuators, air flow monitoring stations, control dampers, etc. as needed for a complete and operational system. Provide coordination of locations of all control devices and device wells/taps with Mechanical, Plumbing and Electrical trade contractors.</li> <li>h. Coordinate and provide all required connections, components, control devices, dampers and accessories, etc. needed for a complete installation of Controls for AHUs, VAVs, Phoenix Valves, Terminal Units, Exhaust Fans, and Fan Coil Units. This contractor shall also furnish all control programming, cabling, etc. not included with the AHU purchase. Provide and install all damper actuators for all control dampers.</li> <li>i. This Trade Contractor shall provide interface with Life Safety systems, including but not limited to, Fire Alarm, Security, etc. Provide all raceways and cables connecting HVAC Controls devices to these systems.</li> <li>j. Connect to systems installed by others and coordinate with systems installed in this contract. This includes, but not limited to, FSDs, Control Panels, Security Panels, VFDs, Air Valves, Terminal Boxes, etc.</li> <li>k. This contractor will provide all required BIM modeling for all controls. This includes, but is not limited to: all installations above ceilings, access zones, and all control panels for coordination with other trades and proper access and maintenance. The intent is to BIM coordinate devices and conduit in wall. Reference Attachment H for additional details.</li> <li>l. This Contractor is to furnish all VFDs as shown on the contract documents. This includes start-up, commissioning, and warranty. This includes all necessary accessories for a complete installation. This contractor shall deliver VFDs to Electrical Contractor for installation and coordinate with Electrical Contractor for their installation of Power Wiring and wiring connections to equipment served. The Controls Contractor to provide all signal and low voltage conduit and wiring for the VFD's.</li> <li>m. Provide all conduit and all low voltage wiring and/or fiber cables as required for full connections and terminations to all devices.</li> <li>n. This contractor is to provide all Control Dampers as shown on the contract documents. These are to be delivered to the respective HVAC Contractors for installation. Testing, adjusting and commissioning of control dampers by Controls Contractor. All Control Dampers will have individual actuators.</li> <li>o. All conduits to be color coded. See specifications for color coding requirements.</li> </ul>

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**SCOPE OF WORK**  
**TC-026A Plumbing and Mechanical Risers Combo**

	<p>p. Provide all conduit and controls wiring for complete connection and operation to all equipment shown in Controls Drawings for all operational points as listed or as required for Sequence of Operation of each respective piece of equipment or system.</p> <ul style="list-style-type: none"> <li>i. This Contractor will provide all raceways and cables, etc. for a complete HVAC controls system, including connections to devices provided by other contractors; smoke detectors, elevators, lighting control panels, etc.</li> <li>ii. This contractor to provide all conduits and wire necessary for CAT6A cabling required for network communications. Termination at EIDF Closet and activation of network to be provided by future Integrated Technology contractor.</li> </ul> <p>q. Provide all sleeves and embeds as required for Controls scope of work to meet construction schedules. Coordinate layout and installation with all trades as required. Contractor shall include all joint sealants and/or firestopping required for the penetration to meet the designed life safety standard.</p> <p>r. This contractor shall participate in start-up, testing, and commissioning for all systems they are associated with. Contractor is to coordinate with the Owner's commissioning agent. Contractor to assume multiple mobilizations for this. Contractor shall participate in all commissioning meetings as required by the Owner's agent.</p> <ul style="list-style-type: none"> <li>i. This contractor will provide all required technician support for all Commissioning of the HVAC, Fire Alarm, Security and Lighting Control Systems.</li> <li>ii. This contractor will provide complete detailed points lists as needed for Graphics Programming by UK PPD. Provide all required technician/programmer time necessary for coordination of points lists, field installation specific notes for addresses and locations, point to point testing information and other information needed for coordination of and completion of the HVAC Controls System Graphics.</li> <li>iii. This Contractor shall provide ALL Tridium interfaces, programming, naming conventions per UK PPD, etc. complete for ALL HVAC Controls, Lighting Control, and other representative systems other than the fire alarm system. UK PPD to create and complete graphics, this contractor to provide all nodes, interface signatures and addresses for the graphics development. Coordinate with UK PPD and Construction Manager to turn over complete and functioning Tridium system integration. <ul style="list-style-type: none"> <li>1. Coordinate with Electrical Contractors to provide complete operating Tridium systems. Fire alarm programming and interface to Tridium is by Electrical Contractor.</li> <li>2. Points shall be named using the following format: (1) Building_Floor_RoomNumber_System_SubSystem_Component_ShortName_Function</li> <li>3. Reference instrumentation drawings for additional details regarding points list and details.</li> <li>4. The Controls Contractor is to utilize the entire drawing and specification set as a whole to formulate controls sequence. (ADD #2)</li> </ul> </li> </ul>
18.	<p>This contractor is responsible for providing <b>Temporary Heat</b> to the building using the installed AHUs. This contractor is to have the heating from the basement to the 4<sup>th</sup> floor available for use by October 15<sup>th</sup>, 2025. This contractor is to provide a temporary heating plan including temporary controls for review and approval prior to start up.</p>
19.	<p>This contractor shall include <b>600 Journeyman Overtime Work Hours</b> to be used for schedule maintenance by the Construction Manager. The trade contractor must include all travel, per diem, fringes, OH&amp;P, etc. costs (a fully loaded rate) on these hours and they are only to be used by the trade contractor at the direction and approval of the Construction Manager. These hours will be logged and usage tracked. Usage of these hours can occur during the week or on Saturdays – no Sundays are intended.</p>
20.	<p>This Contractor is to include all <b>Build Information Modeling</b> per the contract documents. Refer to attachment H for BIM requirements associated with this scope. All costs for the BIM process for this scope of work shall be included in the base bid. Include the scheduled Document Control Server Allowance for Box server use and hardware/software, as well as the Project BIM Coordinator Allowance for 3rd party BIM manager directed by the Construction Manager. These allowances are not for the use of the MEP trades for their coordination.</p> <ul style="list-style-type: none"> <li>a. This Trade Contractor shall be responsible to reflect the actual location of piping, ductwork, and equipment where connections are to be made with existing work in the BIM.</li> <li>b. BIM Modeling under this scope of work will include all Controls conduits ¾" nominal size and larger.</li> <li>c. This Trade Contractor shall also include an additional 320 hours of BIM coordination to be used at the Owner/CM's discretion</li> </ul>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-026A Plumbing and Mechanical Risers Combo**

21.	The intent is to utilize the coordination in the 3D model to prefabricate off-site as much material as possible. All materials possible will be <b>Prefabricated</b> and packaged for Just-in-Time delivery at the job site and be on wheels for delivery to the area of install. No pre-packaged or loose materials to be delivered to the job site that will not be installed within 4 days of delivery. a. The intent of this scope is to have <b>Prefabricated Risers</b> that can be dropped into the building using the available tower crane. The contractors' shop drawings should reflect this intended scope. b. This contractor is to provide any working platform and/or safety equipment needed to install the risers as required.
22.	Due to the size of this scope of work, provide a <b>full-time on-site Project Manager</b> for the duration of work. (ADD #2)

D.	EXCLUSIONS
	The Scope of Work shall exclude the following:
1.	Payment & Performance Bond
2.	Floor drains in Basement slab on grade

E.	ALLOWANCES
	The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices & written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.  Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.
1.	Document Control Server Allowance - \$6,000
2.	Project BIM Coordinator Allowance - \$90,000
3.	Mechanical Risers Controls Contractor Allowance - \$4,000,000 (ADD #2)
4.	Temporary Utility Consumption Allowance - \$100,000

F.	SCHEDULE
1.	Schedule information is included within the bid manual ( <b>Attachment G</b> ) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.
2.	<b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b> It is <b>absolutely critical</b> that the work of this contract be completed by the dates define. Shift work, multiple mobilizations, and out of sequence work will be required. It is imperative that all milestones be met. The Bidders shall include all necessary costs, including, but not limited to, premium time, shift work, out of sequence work, equipment, supervision, etc. to meet these milestones.
3.	Due to the critical nature of the schedule, the Trade Contactor must supply the Construction Manager a detailed plan for his production on the project within 20 calendar days of Contract Award. Please note that this plan must be compatible and complimentary to the Project Schedule. Plan shall include the following items: a. Starting, peak, and final manpower requirements, including subcontractors. Include production rates if requested. b. Shift work plan. c. Number of Foremen d. Anticipated lead times and permit approval.

**Attachment "B"**  
**SCOPE OF WORK**  
***TC-026A Plumbing and Mechanical Risers Combo***

	The Trade Contractor shall work with the Construction Manager and Contractors in "Pull Planning" and the 6-week look-ahead schedule, including manpower information, on a weekly basis. Compliance is a prerequisite for payment.
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<b>G. ALTERNATES</b>	
1.	The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.
ALT.1	None



Attachment "B"  
SCOPE OF WORK  
TC-026A Plumbing and Mechanical Risers Combo

BIDDER'S PROPOSED MAJOR SUBCONTRACTORS AND SUPPLIERS

**\*\*\*DUE BY BID DEADLINE\*\*\***

For the purposes of this form, a major subcontractor or supplier is a person or entity that will have a direct or assigned contract or purchase order for the performance or supply of any item listed below if the bidder is successful.

All subcontractors must comply with the laws of the Commonwealth of Kentucky and the policies and procedures of the University of Kentucky as administrated by the UK Capital Construction Procurement Section and Capital Project Management Division.

If the bidder will self-perform these items, list "Self-Perform" for each applicable item.

No major subcontractor or supplier may be added or changed without written consent of the Owner's representative after the bid deadline.

ITEM or DIVISION OF WORK

NAME AND ADDRESS OF SUBCONTRACTOR

_____	_____
_____	_____
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**Attachment "B"**  
**SCOPE OF WORK**  
**TC-026A Plumbing and Mechanical Risers Combo**

**BIDDER ECONOMIC INCLUSION EFFORTS**

The University of Kentucky is committed to serving as an advocate for diverse businesses and Kentucky located businesses. Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran, and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled. To be deemed a Kentucky located Business a company must have a physical facility located in the Commonwealth of Kentucky that is engaged in on-going business operations.

The University is committed to increasing the amount of goods and services acquired from businesses owned and controlled by diverse persons to 10% of all procurement expenditures. The University expects its suppliers to support and assist in this effort.

The University is also dedicated to increasing the amount of goods and services acquired from Kentucky located companies to the greatest extent possible in support of our economic development efforts.

If the total dollar amount of these contracts does not meet the University's goals for DBE and local businesses, you must provide documentation of your good faith efforts as part of your Determination of Responsibility submittal.

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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3. Kentucky Located Subcontractors

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4. Kentucky Located Materials Suppliers

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Attachment "B"  
SCOPE OF WORK  
TC-027 Electrical and Technology Risers

UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION  
FORM OF PROPOSAL: TC-027 Electrical and Technology Risers

Project No. 2564.0 Project Title: UK Construct Health Education Building

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: \_\_\_\_\_  
(NAME AND ADDRESS OF BIDDER)

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

TO: BID CLERK  
UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION  
PROCUREMENT  
RM. 322 SERVICE BUILDING  
LEXINGTON, KY. 40506-0005

INVITATION TO BID: **CCK 2564.0-15-25**  
BID OPENING DATE: **October 9<sup>th</sup>, 2024**  
TIME **3:00 P.M. E.D.T.**

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

(Here insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

Attachment "B"  
SCOPE OF WORK  
TC-027 Electrical and Technology Risers

Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

**Alternates: None**

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent's qualifications and or past projects.

\_\_\_\_\_  
List the Superintendent's Name

**The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.**

Attachment "B"  
SCOPE OF WORK  
TC-027 Electrical and Technology Risers

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation).
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. **CCK-2564.0-15-25** have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455.
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted.
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner, and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-027 Electrical and Technology Risers**

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.  
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- |                                      |  |
|--------------------------------------|--|
| (01)___ Small Business               | (06)___ Woman-Owned Large Business               |
| (02)___ Large Business               | (07)___ Disadvantaged Woman-Owned Small Business |
| (03)___ Disadvantaged Small Business | (08)___ Disadvantaged Woman-Owned Large Business |
| (04)___ Disadvantaged Large Business | (09)___ Other                                    |
| (05)___ Woman-Owned Small Business   |  |

**DEFINITIONS**

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include: Asian, Black/African American, Hispanic or Latino, Native American, Native Hawaiian/Pacific Islander, Women, Disabled, Veteran and Disabled Veteran and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals as defined above, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day-to-day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-027 Electrical and Technology Risers**

THE FOLLOWING ITEMS ARE HERewith ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

---

(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.



**Attachment "B"**  
**SCOPE OF WORK**  
**TC-027 Electrical and Technology Risers**

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Unit Prices with the bid.*

Material	Unit (LF, SF, EA, etc.)	Unit Price
Color Conduit	LF per size	
Hangers	EA	
Wire		
Fire Stopping Floor Penetration	EA per Size	
Fire Stopping Wall Penetration	EA per Size	
18" Vertical Cable Tray	LF	
18" Horizontal Cable Tray	LF	

Attachment "B"  
SCOPE OF WORK  
TC-027 Electrical and Technology Risers

HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-027 Electrical and Technology Risers

PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-027 Electrical and Technology Risers

BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1	Engineering, Layout, Permits, and Fees					\$
2	Shop drawings and Submittals					\$
3	Electrical Raceways					\$
4	Electrical Underground Raceways					\$
5	Conductors and Terminations					\$
6	Technology Raceways					\$
7	Sleeves and Embeds					\$
8	Installation of Other Provided Equipment					\$
9	Temporary Power					\$
10	Testing and Certification					\$
11	Commissioning					\$
12	Firestopping					\$
13	General Work Requirements					\$
14	Safety					\$
15	Overhead & Profit					\$
Please list and breakdown below any work that has not been listed above						
16						\$
17						\$
18						\$
<b>Allowances (to be included in bid amount)</b>						
1	Document Control Server Allowance					\$3,000
2	Project BIM Coordinator Allowance					\$45,000
3	Temporary Utility Consumption Allowance					\$50,000

Total Labor Hours = \_\_\_\_\_

<b>TOTAL BID AMOUNT</b> (This amount should match the Lump Sum listed on Form of Proposal)	\$
Cost of Payment & Performance Bond (DO NOT INCLUDE THIS COST IN BID AMOUNT)	\$

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-027 Electrical and Technology Risers**

SCOPE OF WORK

A.	GENERAL
1.	This Trade Contractor is required to sign Turner form 36 subcontract agreement included in the scope of work manual, which takes precedence over the General & Special Conditions.
2.	The General Building Permit will be provided by the others (architect). Obtain all other required permits; submit copies to the Construction Manager.
3.	Provide labor, material, equipment, and all else necessary to furnish and install complete the Scope of Work as required by the contract documents and as outlined below
4.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
5.	The intention is to have the successful Subcontractor perform all the related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
6.	Detail references are included for convenience but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
7.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."
8.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed
9.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
10.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
11.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
12.	<b>Refer to Project General Work Requirements</b> in the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors and they shall include those costs in their respective total lump sum bid price.

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample Attachment A and Bid Recording Sheet</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b>
	<ul style="list-style-type: none"> <li>a. Attachment C - Safety Program</li> <li>b. Attachment E - Accounting Procedures</li> <li>c. Attachment F - Percentage Markup</li> <li>d. Attachment G - BP-04 Bid Schedule</li> <li>e. Attachment H - BIM General Requirements</li> <li>f. Attachment I - LEAN Subcontract Exhibit</li> <li>g. Attachment K - CCIP Manual</li> </ul>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-027 Electrical and Technology Risers**

	<ul style="list-style-type: none"> <li>h. Attachment L - Tree Protection Standards</li> <li>i. Attachment M – Waste Management Standard</li> <li>j. Attachment N – Turner Subcontractor Onboarding</li> <li>k. Attachment O – UK HEB Enhancing Worker Experience Plan</li> </ul>
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – Logistics Plans</li> <li>b. SK-002 -- BMP Plan</li> <li>c. SK-003 – Temp Power Plan</li> <li>d. <b>SK-004 – Existing Underslab Electrical Installation (ADD #2)</b></li> </ul>
6.	<b>Specifications</b>
	<p>The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below.</p> <ul style="list-style-type: none"> <li>a. <b>05 1000 Structural Anchors (as applicable)</b></li> <li>b. <b>05 5000 Metal Fabrications (as applicable)</b></li> <li>c. <b>07 8413 - Penetration Firestopping (ADD #2)</b></li> <li>d. <b>07 8443 – Joint Firestopping (ADD #2)</b></li> <li>e. <b>07 9200 – Joint Sealants (ADD #2)</b></li> <li>f. <b>Division 26 Complete</b></li> <li>g. <b>Division 27 Complete</b></li> <li>h. <b>31 2001 – SWPPP (ADD #2)</b></li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

C.	SPECIFIC SCOPE ITEMS
1.	<p>This contractor shall <b>verify conditions</b> are suitable for Electrical &amp; Technology Riser installation prior to beginning installation. This includes installation of the equipment provided by others.</p> <ul style="list-style-type: none"> <li>a. Include coordination of final location of equipment and panels provided by others, including feeders into and out of the equipment and panels</li> </ul>
2.	<p>The contract price shall not be altered for any work that could have been <b>reasonably inferred</b> from the Contract Documents. The following items are listed as examples of the intent of this statement, but is not limited to these items alone:</p> <ul style="list-style-type: none"> <li>a. Variations to avoid interference and obstructions.</li> <li>b. Providing all electrical components and services usually supplied with a specific system.</li> <li>c. The providing of all necessary electrical equipment and appurtenances, whether shown or not, for a complete operating system in strict code compliance based on equipment and fixtures indicated on the Contract Documents.</li> <li>d. Testing performed in accordance with the requirements of the Contract Documents to meet the needs of the construction schedule and to not delay the work of other trades.</li> </ul>
3.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment to provide all <b>STRUCTURAL SUPPORTS &amp; ANCHORS</b> as required by the Contract Documents and in accordance with section 05 1000. This includes the design and analysis of structural steel supports and connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <ul style="list-style-type: none"> <li>a. All systems must meet seismic and structural requirements as indicated on the structural drawings.</li> <li>b. Provide and install all support and all blocking for all Electrical &amp; related equipment and cabinets. All equipment supports, isolators, and conduit supports required to complete this scope shall be furnished and installed by this Trade Contractor. This includes any miscellaneous metals, hangers, bridging, etc. Structural supports associated with any items installed in Trade Contractor's work.</li> </ul>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-027 Electrical and Technology Risers**

	<ul style="list-style-type: none"> <li>c. This contractor shall provide all <b>Fireproof Patching</b> that has been removed for installation of hangers and support for this scope.</li> <li>d. This Trade Contractor shall provide and install any curbs and/or housekeeping pads, concrete anchors for all equipment, etc. contained in this work scope. This includes pads that are not shown on the contract drawings, yet required for the work of this contract. This includes concrete for any pre-purchased equipment by the owner. This Trade Contractor shall coordinate size and layout of pads. Provide BIM modeling and coordination for review and approval prior to placement of Pads.</li> <li>e. <b>Anchor installation shall be coordinated with Fireproofing contractor. Assume installation of a "shorter" rod prior to fireproofing installation and coupling and installing rods to final length after fireproofing is complete. (ADD #2)</b></li> </ul>
4.	<p><b>Label and identify</b> all piping and components associated with this contract as required in the contract documents.</p>
5.	<p>This Trade Contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Electrical</b> system as shown on the Contract Documents and in accordance with Division 26. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <ul style="list-style-type: none"> <li>a. This contractor shall include all <b>Raceways</b>, including underground raceways, for a complete installation of this work. These raceways are to be coordinated with this and other contractors work. <ul style="list-style-type: none"> <li>i. For underground raceways in the Main Electrical Room and Emergency Electrical Room, assume mass rock will be excavated and filled in with boulders topped with gravel. This contractor shall include excavation as needed to expose conduits installed in previous bid package. This contractor is to backfill excavations to allow for the support of the installations above them. Assume the placing of the concrete slab on grade will be by others. <ul style="list-style-type: none"> <li>1. <b>See SK-004 for more information on underslab electrical work completed by others. At locations shown, this contractor is to tie on to and extend conduits to final coordinated equipment locations. (ADD #2)</b></li> </ul> </li> <li>ii. This contractor understands that the equipment they will be able to provide to do this underground work will be constrained by the existing communications ductbank running through the ceiling of the Basement level. This contractor shall include as much equipment as needed to not impact the contract schedule.</li> </ul> </li> <li>b. Conductors are to be installed per the feeder schedule. This contractor shall include feeder information in the BIM coordination, including all information on the number of bends and bend radius' for each of the feeders.</li> <li>c. Provide all Raceway BIM modeling to show all required Pull Boxes. Pull Boxes are to be shown and coordinated with all other work from all trades for installation location and access. Provide a Pull Box Sizing Table with the BIM modeling pages.</li> <li>d. <b>This Contractor to assume all permanent power and communications feeds stop 5' outside of building foundations. This contractor to include all necessary excavation, ductbank and pathway installation, backfill, and coring required to bring feeds into the building. (ADD #2)</b></li> </ul>
6.	<p>This Trade Contractor shall provide all materials, labor, tools, and equipment required to install complete and functioning <b>Technology Risers</b> system as shown on the Contract Documents and in accordance with Division 27. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <ul style="list-style-type: none"> <li>a. This contractor shall provide all cable trays, horizontal and vertical as shown in the contract drawings. This contractor shall supply all raceways, including underground raceways, as shown on the technology drawings. <ul style="list-style-type: none"> <li>i. Contractor shall assume that cable tray shipments will be broken up (1 per area at minimum). These will be released with BIM signoff of each area.</li> </ul> </li> <li>b. Conform to current UK Communications and Network Systems standards for installation.</li> <li>c. Provide all grounding and bonding for technology raceway systems included in this contract.</li> <li>d. This contractor is to provide the Fire Rated Plywood mounting board for all electrical, EIDF, IDF and any technology rooms. Install per specifications and UK CNS standards. This contractor is to paint plywood before installation of equipment. Do not paint over any fire rating labels.</li> </ul>
7.	<p>This Contractor shall provide power connections to all <b>Owner Provided Equipment</b> as noted in the contract documents and in TC-017, TC-017A, and TC-018 scopes of work. Coordinate receiving with</p>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-027 Electrical and Technology Risers**

	<p>Manufacturer's Representatives delivery dates and project schedules. For owner furnished equipment which may have utility connection requirements, provide rough-in and final connections to the Owner furnished equipment and coordinate complete installation as required. Coordinate any utility work shown on documents with the appropriate subcontractor. This includes things of "like scope" items listed as associated with this work scope.</p> <ul style="list-style-type: none"> <li>a. The Owner Supplied Air Handling Units (AHUs) in the TC-018 scope of work will be installed by the TC-025 Mechanical Contractor. TC-027 shall coordinate and tie in all power needed for a complete and functioning system.</li> <li>b. This contractor will be responsible for receipt, handling, coordination, installation, and all other miscellaneous provisions for the Owner Provided Electrical Equipment as if it were purchased directly by this contractor. This equipment is provided in the TC-017 and TC-017A scopes of work. This includes temporary weather protection and storage maintenance (lube, rotation, etc.) until turned over to the owner.</li> <li>c. The above equipment may come with loose miscellaneous accessories such as sensors, switches, power filters, etc. and multiple points of connection over and above what is called for in the documents. This Contractor shall provide any miscellaneous conduit, wiring, testing, etc. to make the equipment fully operational.</li> <li>d. This contractor shall provide the Conduit, Supports, Misc. Steel for Supports, and Accessories for complete connection to equipment locations.</li> <li>e. Coordinate and complete connections to Owner furnished equipment as indicated in the contract documents</li> <li>f. This contractor shall receive from TC-025 Contractor and install all VFD's for all Mechanical Equipment. Provide all electrical power connections to and from VFD's as required for full function of equipment. Provide Technical support at time of factory Start Up of VFD's.</li> </ul>
8.	<p>This contractor is to include all materials, labor, tools, and equipment required to tie in power to <b>Equipment Provided by Others</b>. Review all equipment provided by TC-025 Mechanical Risers Contractor, TC-026 Plumbing Risers Contractor, and TC-028 Fire Protection Contractor. Coordinate with these contractors for power requirements for their respective equipment.</p> <ul style="list-style-type: none"> <li>a. Include conduit and wire from the final location to the power source as shown on the contract documents. This contractor is to coordinate sizing of wire and conduit with feeder type shown</li> </ul>
9.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment required to install a complete and functioning <b>Ground System</b> as shown. This includes, but is not limited to, the ground for: general building grounding, building structural steel, water services, medical gas, and other MEPT services requiring grounding.</p> <ul style="list-style-type: none"> <li>a. Contractor shall provide grounding and bonding for all equipment that is provided by them and other contractors within the project.</li> </ul>
10.	<p>This Trade Contractor shall furnish and install all <b>sleeves and blockouts</b> for this contractor's penetrations of walls, floors, and roof. The cutting of metal deck as required to install the work shall be included. Any reinforcement of the deck that is required but not shown on the structural drawings is to be included in this work. This Trade Contractor is responsible for all curbs, thimbles, counter flashings, clamping rings, sealants, etc., required at roof penetrations of material and equipment covered by this work. This would include but not be limited to vents flashings, and any special curbs or flashing required. This contractor shall coordinate with the construction manager and the TC-020 CIP Shafts and Decks contractor to install all sleeve prior to concrete placement. Assume multiple mobilizations are needed. Any and all costs for core drilling required for technology systems raceways due to failure to coordinate the installation of sleeves and/or their incorrect location will be borne by this contractor.</p> <ul style="list-style-type: none"> <li>a. Per UK standards, all sleeves/blockouts shall be a minimum of 1.5" above finished floor. This work scope shall include "metal collars" (sealed) as necessary for any existing or new sleeve installations not 1.5" above the finished floor elevation (not concrete elevation). This Trade Contractor is responsible for protection of all sleeves installed for (or existing) their scope of work.</li> <li>b. This contractor is to gain fire stopping inspection at the floor level PRIOR to installing the 1.5" metal collar. The installation of the metal collar and floor fire stopping shall not be in one action preventing proper fire stop inspection.</li> <li>c. All roof penetrations are to be included in this work scope. This contractor is to include all costs to repair/tie-in/patch the roofing utilizing the TC-024 roofing contractor of record. This includes any work</li> </ul>



**Attachment "B"**  
**SCOPE OF WORK**  
**TC-027 Electrical and Technology Risers**

	<p>included in this contract. Any roof or floor protection required for the movement of workmen or equipment is to be included.</p> <p>d. All openings installed under this scope are the sole responsibility of this contractor to ensure that they are water tight prior to their end of shift. This contractor shall coordinate openings with proper trades.</p> <p>e. This contractor shall provide all <b>Firestopping</b> at all rated penetrations in coordination with installation of rated assemblies.</p> <p>f. This contract shall provide a fire rated sleeve system for all Fire Rated Partitions as necessary for all open cables, cable trays and wiring. Provide full submittal information, BIM Modeling for approval prior to installations.</p> <p>g. This contractor shall provide all floor boxes for power and data as shown in the contract documents. Coordinate installation of underslab conduit and stub up conduits as well as block outs for floor boxes with TC-020 CIP Shafts and Decks Contractor to assure all installations are in place prior to concrete placement. Provide early BIM Modeling for all in slab and under slab work to meet concrete placement schedules. <b>Ignore note IT36 on Communications Drawings. These floor boxes shall be provided by this contractor. (ADD #2)</b></p>
11.	<p>Temporary power will not be available. This Trade Contractor will need to <b>provide their own power</b> and welders for the scope of work and provide generators for other power that will be required. At no time shall the noise generated by generators or welders be overwhelming or disruptive to the campus operations. Generators shall be placed to minimize noise and exhaust impacts.</p>
12.	<p>Perform all <b>electrical testing</b> of new electrical systems including emergency systems as outlined in the Contract Documents and per Governing Codes required to verify correct system operation including proper coordination of system interruption ratings. Testing is to include but not limited to all Megger and IR Testing as required by the contract documents and industry standards. Short circuit/coordination study will be performed by this Trade Contractor in coordination with the equipment manufacturers' engineers. Provide data, including but not limited to feeder lengths, required to facilitate the short circuit / coordination study/ arc flash study. Adjust all breaker trip settings as recommended by the coordination study and the commissioning agent. Installation, testing, and inspections shall be scheduled by area as sequenced by the Construction Manager, in order to not delay the progress of other trades. Multiple tests, comebacks, or inspections as may be required for this coordination are to be included. Provide all electrical equipment nameplates/labels and panelboard directories, including all owner furnished equipment.</p>
13.	<p>This contractor shall include <b>300 Journeyman Overtime Work Hours</b> to be used for schedule maintenance by the Construction Manager. The trade contractor must include all travel, per diem, fringes, OH&amp;P, etc. costs (a fully loaded rate) on these hours and they are only to be used by the trade contractor at the direction and approval of the Construction Manager. These hours will be logged and usage tracked. Usage of these hours can occur during the week or on Saturdays – no Sundays are intended.</p>
14.	<p>This Contractor is to include all <b>Building Information Modeling</b> per the contract documents. Refer to attachment H for BIM requirements associated with this scope. All costs for the BIM process for this scope of work shall be included in the base bid. Include the scheduled Document Control Server Allowance for Box server use and hardware/software, as well as the Project BIM Coordinator Allowance for 3rd party BIM manager directed by the Construction Manager. These allowances are not for the use of the MEP trades for their coordination.</p> <p>a. This Trade Contractor shall be responsible to reflect the actual location of conduits and electrical gear where connections are to be made with existing work in the BIM</p> <p>b. This Trade Contractor shall provide coordination between all Power and Communication Conduits, Cable Trays, Duct Banks, and Busway ensure proper separation and crossing per industry standards.</p> <p>c. BIM Modeling under this scope of work will include all conduits ¾" nominal size and larger.</p> <p>d. This Trade Contractor shall also include an additional 160 hours of BIM coordination to be used at the Owner/CM's discretion</p>
15.	<p>The intent is to utilize the coordination in the 3D model to prefabricate off-site as much material as possible. All materials possible will be <b>Prefabricated</b> and packaged for Just-in-Time delivery at the job site and be on wheels for delivery to the area of install. No pre-packaged or loose materials to be delivered to the job site that will not be installed within 4 days of delivery.</p> <p>a. The intent of this scope is to have <b>Prefabricated Risers</b> that can be dropped into the building using the available tower crane. The contractors' shop drawings should reflect this intended scope.</p>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-027 Electrical and Technology Risers**

	b. This contractor is to provide any working platform and/or safety equipment needed to install the risers as required.
16.	Due to the size of this scope of work, provide a <b>full-time on-site Project Manager</b> for the duration of work. (ADD #2)

<b>D. EXCLUSIONS</b>	
	The Scope of Work shall exclude the following:
1.	Payment & Performance Bond
2.	Procurement and delivery of Owner Furnished Equipment including: MV Switchgear (SWGR1 & SWGR2) Unit Substation 1A & 1B Unit Substation 2A & 2B Unit Substation 3A & 3B, including busduct tie. Switchboards as noted on the drawings Generator ATSS

<b>E. ALLOWANCES</b>	
	The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices & written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.  Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.
1.	Document Control Server Allowance - \$3,000
2.	Project BIM Coordinator Allowance - \$45,000
3.	Temporary Utility Consumption Allowance - \$50,000

<b>F. SCHEDULE</b>	
1.	Schedule information is included within the bid manual ( <b>Attachment G</b> ) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.
2.	<b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b> It is <b>absolutely critical</b> that the work of this contract be completed by the dates define. Shift work, multiple mobilizations, and out of sequence work will be required. It is imperative that all milestones be met. The Bidders shall include all necessary costs, including, but not limited to, premium time, shift work, out of sequence work, equipment, supervision, etc. to meet these milestones.
3.	Due to the critical nature of the schedule, the Trade Contactor must supply the Construction Manager a detailed plan for his production on the project within 20 calendar days of Contract Award. Please note that this plan must be compatible and complimentary to the Project Schedule. Plan shall include the following items: a. Starting, peak, and final manpower requirements, including subcontractors. Include production rates if requested. b. Shift work plan. c. Number of Foremen d. Anticipated lead times and permit approval.

Attachment "B"  
SCOPE OF WORK  
*TC-027 Electrical and Technology Risers*

	e. The Trade Contractor shall work with the Construction Manager and Contractors in "Pull Planning" and the 6-week look-ahead schedule, including manpower information, on a weekly basis. Compliance is a prerequisite for payment.
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<b>G. ALTERNATES</b>	
1.	The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.
ALT.1	None





**Attachment "B"**  
**SCOPE OF WORK**  
**TC-027 Electrical and Technology Risers**

**BIDDER ECONOMIC INCLUSION EFFORTS**

The University of Kentucky is committed to serving as an advocate for diverse businesses and Kentucky located businesses. Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran, and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled. To be deemed a Kentucky located Business a company must have a physical facility located in the Commonwealth of Kentucky that is engaged in on-going business operations.

The University is committed to increasing the amount of goods and services acquired from businesses owned and controlled by diverse persons to 10% of all procurement expenditures. The University expects its suppliers to support and assist in this effort.

The University is also dedicated to increasing the amount of goods and services acquired from Kentucky located companies to the greatest extent possible in support of our economic development efforts.

If the total dollar amount of these contracts does not meet the University's goals for DBE and local businesses, you must provide documentation of your good faith efforts as part of your Determination of Responsibility submittal.

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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3. Kentucky Located Subcontractors

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4. Kentucky Located Materials Suppliers

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Attachment "B"  
SCOPE OF WORK  
TC-028 Fire Protection

UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION  
FORM OF PROPOSAL: TC-028 Fire Protection

Project No. 2564.0 Project Title: UK Construct Health Education Building

Purchasing Officer: Ken Scott

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: \_\_\_\_\_  
(NAME AND ADDRESS OF BIDDER)

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

TO: BID CLERK  
UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION  
PROCUREMENT  
RM. 322 SERVICE BUILDING  
LEXINGTON, KY. 40506-0005

INVITATION TO BID: **CCK 2564.0-15-25**  
BID OPENING DATE: **October 9<sup>th</sup>, 2024**  
TIME **3:00 P.M. E.D.T.**

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

(Here insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-028 Fire Protection**

Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

**Alternates: None**

**SUPERINTENDENT**

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent's qualifications and or past projects.

\_\_\_\_\_  
List the Superintendent's Name

**The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.**



Attachment "B"  
SCOPE OF WORK  
TC-028 Fire Protection

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation).
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. **CCK-2564.0-15-25** have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455.
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted.
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner, and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_

**Attachment "B"**  
**SCOPE OF WORK**  
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**BUSINESS CLASSIFICATION**

Please complete this form which is necessary for the University of Kentucky vendor database.  
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- |   |   |
|---|---|
| (01)___ Small Business                  | (06)___ Woman-Owned Large Business                  |
| (02)___ Large Business                  | (07)___ Disadvantaged Woman-Owned<br>Small Business |
| (03)___ Disadvantaged Small<br>Business | (08)___ Disadvantaged Woman-Owned<br>Large Business |
| (04)___ Disadvantaged Large<br>Business | (09)___ Other                                       |
| (05)___ Woman-Owned Small Business      |   |

**DEFINITIONS**

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include: Asian, Black/African American, Hispanic or Latino, Native American, Native Hawaiian/Pacific Islander, Women, Disabled, Veteran and Disabled Veteran and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals as defined above, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day-to-day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

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THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

---

(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

**Attachment "B"**  
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UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Unit Prices with the bid.*

Material	Unit (LF, SF, EA, etc.)	Unit Price
Upright Head	EA	
Pendant Head	EA	
¾" piping	LF	
1" piping	LF	
1 ½" piping	LF	
2" piping	LF	
Fire Stopping	EA	

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HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

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PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
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BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1	Engineering & Layout, Permits & Fees,					\$
2	Shop drawings and Submittals					\$
3	Mobilizations					\$
4	Pump Room Piping					\$
5	Pump & Panel Install					\$
6	Riser Piping					\$
7	Floor Area Piping					\$
8	FDC, PIV, Underground Piping					\$
9	Pressure Test and Seal Piping Risers					\$
10	Temporary Riser					\$
11	Firestopping					\$
12	General Work Requirements					\$
13	Safety					\$
14	Overhead & Profit					\$
Please list and breakdown below any work that has not been listed above						
15						\$
16						\$
17						\$
<b>Allowances (to be included in bid amount)</b>						
1	Document Control Server Allowance					\$3,000
2	Project BIM Coordinator Allowance					\$45,000
3	Fire Protection Alterations Allowance					\$50,000

Total Labor Hours = \_\_\_\_\_

<b>TOTAL BID AMOUNT</b> (This amount should match the Lump Sum listed on Form of Proposal)	\$
Cost of Payment & Performance Bond <b>(DO NOT INCLUDE THIS COST IN BID AMOUNT)</b>	\$

SCOPE OF WORK

Attachment "B"  
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A.	GENERAL
1.	This Trade Contractor is required to sign Turner form 36 subcontract agreement included in the scope of work manual, which takes precedence over the General & Special Conditions.
2.	The General Building Permit will be provided by the others (architect). Obtain all other required permits; submit copies to the Construction Manager.
3.	Provide labor, material, equipment, and all else necessary to furnish and install complete the Scope of Work as required by the contract documents and as outlined below
4.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
5.	The intention is to have the successful Subcontractor perform all the related work shown on the Contract Documents other than those items specifically indicated below to be excluded. This contract is a Design Build Contract, this contractor shall provide a completely designed and installed system in compliance with State and Local codes. The system design will be reviewed by the Mechanical Engineer, the University and the Local Fire Marshal prior to fabrication and installation.
6.	Detail references are included for convenience but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
7.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."
8.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed
9.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
10.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
11.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
12.	Refer to <b>Project General Work Requirements</b> in the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors and they shall include those costs in their respective total lump sum bid price.

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample Attachment A and Bid Recording Sheet</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b>
	<ul style="list-style-type: none"> <li>a. Attachment C - Safety Program</li> <li>b. Attachment E - Accounting Procedures</li> <li>c. Attachment F - Percentage Markup</li> <li>d. Attachment G - BP-04 Bid Schedule</li> <li>e. Attachment H - BIM General Requirements</li> <li>f. Attachment I - LEAN Subcontract Exhibit</li> <li>g. Attachment K - CCIP Manual</li> </ul>



Attachment "B"  
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	<ul style="list-style-type: none"> <li>h. Attachment L - Tree Protection Standards</li> <li>i. Attachment N – Turner Subcontractor Onboarding</li> <li>j. Attachment O – UK HEB Enhancing Worker Experience Plan</li> </ul>
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – Logistics Plans</li> <li>b. SK-002 – BMP Plan</li> <li>c. SK-003 – Temp Power Plan</li> </ul>
6.	<b>Specifications</b>
	<p>The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below.</p> <ul style="list-style-type: none"> <li>a. <b>07 8413 - Penetration Firestopping (ADD #2)</b></li> <li>b. <b>07 8443 – Joint Firestopping (ADD #2)</b></li> <li>c. <b>07 9200 – Joint Sealants (ADD #2)</b></li> <li>d. <b>20 0140 General Provisions</b></li> <li>e. <b>20 0240 Scope of the Mechanical Work</b></li> <li>f. <b>20 0340 Shop Drawings, Descriptive Literature, Maintenance Manuals, Parts Lists, Special Keys and Tools</b></li> <li>g. <b>20 0540 Coordination Among Trades, Systems Interfacing and Connection of Equipment Furnish by Others</b></li> <li>h. <b>20 1140 Sleeving, Cutting, Patching and Repairing</b></li> <li>i. <b>20 1240 Excavation, Trenching, Backfilling and Grading</b></li> <li>j. <b>20 1340 Welding</b></li> <li>k. <b>20 2140 Access to Valves, Equipment, Filters, Etc.</b></li> <li>l. <b>20 2140 Valves and Cocks</b></li> <li>m. <b>20 2240 Insulation – Mechanical</b></li> <li>n. <b>20 2340 Thermometers and Others, Monitoring Instruments</b></li> <li>o. <b>20 2440 Identifications, Tags, Charts, Etc.</b></li> <li>p. <b>20 2540 Hanger, Clamps, Attachments, Etc.</b></li> <li>q. <b>20 2600 Mechanical/Electrical Vibration Controls</b></li> <li>r. <b>20 3140 Testing, Balancing, Lubrication and Adjustments</b></li> <li>s. <b>21 0140 Fire Protection System</b></li> <li>t. <b>31 2001 – SWPPP (ADD #2)</b></li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

C.	SPECIFIC SCOPE ITEMS
1.	This contractor shall <b>verify conditions</b> are suitable for Mechanical Riser installation prior to beginning installation. This includes installation of the equipment provided by others. Include coordination of final location of equipment provided by others, including feeds into and out of the equipment.
2.	The contract price shall not be altered for any work that could have been reasonably inferred from the Contract Documents. The following items are listed as examples of the intent of this statement, but is not limited to these items alone: <ul style="list-style-type: none"> <li>a. Variations to avoid interference and obstructions.</li> <li>b. Providing all Mechanical components and services usually supplied with a specific system.</li> <li>c. The providing of all necessary mechanical equipment and appurtenances, whether shown or not, for a complete operating system in strict code compliance based on equipment and fixtures indicated on the Contract Documents.</li> </ul>

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	Testing performed in accordance with the requirements of the Contract Documents to meet the needs of the construction schedule and to not delay the work of other trades.
3.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment to provide all <b>STRUCTURAL SUPPORTS &amp; ANCHORS</b> as required by the Contract Documents and in accordance with Division 05. This includes the design and analysis of structural steel supports and connections not specifically shown. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work. Coordinate all supports in shafts with shaft wall construction and provide required fire stopping to meet rated shaft requirements.</p> <ol style="list-style-type: none"> <li>All systems must meet seismic and structural requirements as indicated on the structural drawings.</li> <li>Provide and install all support and all blocking for all Mechanical &amp; related equipment and cabinets. All equipment supports, isolators, and conduit supports required to complete this scope shall be furnished and installed by this Trade Contractor. This includes any miscellaneous metals, hangers, bridging, etc. Structural supports associated with any items installed in Trade Contractor's work.</li> <li>This contractor shall provide all <b>Fireproof Patching</b> that has been removed for installation of hangers and support for this scope.</li> <li>This Trade Contractor shall provide and install any curbs and/or housekeeping pads, concrete anchors for all equipment, etc. contained in this work scope. This includes pads that are not shown on the contract drawings, yet required for the work of this contract. This includes concrete for any pre-purchased equipment by the owner. This Trade Contractor shall coordinate size and layout of pads. Provide BIM modeling and coordination for review and approval prior to placement of Pads.</li> <li><b>Anchor installation shall be coordinated with Fireproofing contractor. Assume installation of a "shorter" rod prior to fireproofing installation and coupling and installing rods to final length after fireproofing is complete. (ADD #2)</b></li> </ol>
4.	<b>Label and identify</b> all piping and components associated with this contract as required in the contract documents.
5.	<p>This Trade Contractor shall provide all <b>Fire Protection</b> as shown on the Contract Documents and in accordance with Division 21. Include all material, labor, tools, equipment, supplies, transportation, and taxes, to complete this scope of work.</p> <ol style="list-style-type: none"> <li>This contractor shall make main fire service connection to piping provided by others as shown on the contract documents. This piping will be stubbed into building by others.</li> <li>Final drop of mains, sprinkler head installation and trim-out, etc. is not to be performed until the ceiling installation is complete in each area. If this Trade Contractor chooses to install drops/heads prior to ceiling being installed they shall be responsible for all costs to adjust, relocate and/or remove drops/heads. All sprinkler heads shall be centered in both directions in each acoustic ceiling tile unless otherwise approved. The acoustic ceiling installer shall cut all ceiling tiles.</li> <li>This contractor to include necessary sprinkler coverage under all ductwork 4' and larger. Review mechanical drawings for estimated locations.</li> <li>Install escutcheons at ALL penetrations where piping is exposed to view, which is to include storage rooms, electrical/mechanical closets, etc.</li> <li>Extended sprinkler head coverage will NOT be allowed unless pre-approved by the project design team.</li> </ol>
6.	This Trade Contractor shall provide Hydro Testing of Fire Protection Piping Systems prior to shaft close. Contractor shall provide a Holding Charge on all piping with gages to indicate charge is being maintained.
7.	This Trade Contractor shall provide a complete Valve Chart of all piping valves located in the riser piping. Valve chart shall include a listing of all valves, locations, type, and Mfg.
8.	This Contractor shall provide all <b>Startup, Testing and Commissioning</b> for all equipment installed in this scope of work. Provide startup and testing plan for approval prior to commencing work scope. Provide all testing reports required for University and State Inspectors.
9.	This Contractor shall provide participation and assistance during <b>Final Commissioning</b> of all equipment and systems installed in this scope of work near the substantial completion of the project. This contractor shall assume a remobilization for this work.
10.	This Trade Contractor shall furnish and install all <b>sleeves and blockouts</b> for this contractor's penetrations of walls, floors, and roof. The cutting of metal deck as required to install the work shall be included. Any reinforcement of the deck that is required but not shown on the structural drawings is to be included in this work. This Trade Contractor is responsible for all curbs, thimbles, counter flashings, clamping rings,

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	<p>sealants, etc., required at roof penetrations of material and equipment covered by this work. This would include but not be limited to vents flashings, and any special curbs or flashing required. This contractor shall coordinate with the construction manager and the TC-020 CIP Shafts and Decks contractor to install all sleeves prior to concrete placement. Assume multiple mobilizations are needed. Any and all costs for core drilling required for mechanical systems raceways due to failure to coordinate the installation of sleeves and/or their incorrect location will be borne by this contractor.</p> <ol style="list-style-type: none"> <li>Per UK standards, all sleeves/blockouts shall be a minimum of 1.5" above finished floor. This work scope shall include "metal collars" (sealed) as necessary for any existing or new sleeve installations not 1.5" above the finished floor elevation (not concrete elevation). This Trade Contractor is responsible for protection of all sleeves installed for (or existing) their scope of work.</li> <li>This contractor is to gain fire stopping inspection at the floor level PRIOR to installing the 1.5" metal collar. The installation of the metal collar and floor fire stopping shall not be in one action preventing proper fire stop inspection.</li> <li>All roof penetrations are to be included in this work scope. This contractor is to include all costs to repair/tie-in/patch the roofing utilizing the TC-024 roofing contractor of record. This includes any work included in this contract. Any roof or floor protection required for the movement of workmen or equipment is to be included.</li> <li>All openings installed under this scope are the sole responsibility of this contractor to ensure that they are water tight prior to their end of shift. This contractor shall coordinate openings with proper trades.</li> <li>This contractor shall provide all <b>Firestopping</b> at all rated penetrations in coordination with installation of rated assemblies.</li> </ol>
11.	<p><b>Temporary Power</b> will not be available. This Trade Contractor will need to provide their own power and welders for the scope of work and provide generators for other power that will be required. At no time shall the noise generated by generators or welders be overwhelming or disruptive to the campus operations. Generators shall be placed to minimize noise and exhaust impacts.</p>
12.	<p>This contractor shall include <b>300 Journeyman Overtime Work Hours</b> to be used for schedule maintenance by the Construction Manager. The trade contractor must include all travel, per diem, fringes, OH&amp;P, etc. costs (a fully loaded rate) on these hours and they are only to be used by the trade contractor at the direction and approval of the Construction Manager. These hours will be logged and usage tracked. Usage of these hours can occur during the week or on Saturdays – no Sundays are intended.</p>
13.	<p>This Contractor is to include all <b>Build Information Modeling</b> per the contract documents. Refer to attachment H for BIM requirements associated with this scope. All costs for the BIM process for this scope of work shall be included in the base bid. Include the scheduled Document Control Server Allowance for Box server use and hardware/software, as well as the Project BIM Coordinator Allowance for 3rd party BIM manager directed by the Construction Manager. These allowances are not for the use of the MEP trades for their coordination.</p> <ol style="list-style-type: none"> <li>This Trade Contractor shall be responsible to reflect the actual location of piping, ductwork, and equipment where connections are to be made with existing work in the BIM.</li> <li>BIM Modeling under this scope of work will include all Controls conduits ¾" nominal size and larger.</li> <li>This Trade Contractor shall also include an additional 160 hours of BIM coordination to be used at the Owner/CM's discretion</li> </ol>
14.	<p>The intent is to utilize the coordination in the 3D model to prefabricate off-site as much material as possible. All materials possible will be <b>Prefabricated</b> and packaged for Just-in-Time delivery at the job site and be on wheels for delivery to the area of install. No pre-packaged or loose materials to be delivered to the job site that will not be installed within 4 days of delivery.</p> <ol style="list-style-type: none"> <li>The intent of this scope is to have <b>Prefabricated Risers</b> that can be dropped into the building using the available tower crane. The contractors' shop drawings should reflect this intended scope.</li> <li>This contractor is to provide any working platform and/or safety equipment needed to install the risers as required.</li> </ol>
15.	<p>This contractor shall provide temporary Standpipes per requirements of NFPA, State and Local Codes. Provide a Shop Drawing of the proposed Standpipe(s) for approval by the local Fire Marshal prior to installation. Begin Install as the Third Floor Deck is being poured and maintain riser sections as required as the successive building floors are placed. See Attachment G for more information.</p> <ol style="list-style-type: none"> <li>Coordinate with other trades for flow test requirements</li> </ol>

Attachment "B"  
SCOPE OF WORK  
TC-028 Fire Protection

16.	This contractor shall provide the Fire Pump, Jockey Pump, Fire Pump Electrical Panel/ATS, Jockey Pump Panel, Conduit, Wiring, controls, alarms, etc. for a complete operational system. Coordinate with electrical contractor for final electrical and fire alarm connections.
17.	This Trade Contractor shall provide all <b>firestopping</b> associated with this scope of work in accordance with the contract documents, including identification per the specifications. This includes firestopping for all penetrations associated with this scope of work, including core drilled penetrations. All penetrations created by this Trade Contractor shall be coordinated with other applicable trades and performed in a neat and workmanlike manner.
18.	Due to the size of this scope of work, provide a <b>full-time Project Manager</b> for the duration of work. (ADD #2)

D. EXCLUSIONS	
	The Scope of Work shall exclude the following:
1.	Payment & Performance Bond

E. ALLOWANCES	
	The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices & written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.  Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.
1.	Document Control Server Allowance - \$3,000
2.	Project BIM Coordinator Allowance - \$45,000
3.	Fire Protection Alterations Allowance - \$50,000

F. SCHEDULE	
1.	Schedule information is included within the bid manual ( <b>Attachment G</b> ) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.
2.	<b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b> It is <b>absolutely critical</b> that the work of this contract be completed by the dates define. Shift work, multiple mobilizations, and out of sequence work will be required. It is imperative that all milestones be met. The Bidders shall include all necessary costs, including, but not limited to, premium time, shift work, out of sequence work, equipment, supervision, etc. to meet these milestones.
3.	Due to the critical nature of the schedule, the Trade Contactor must supply the Construction Manager a detailed plan for his production on the project within 20 calendar days of Contract Award. Please note that this plan must be compatible and complimentary to the Project Schedule. Plan shall include the following items: <ul style="list-style-type: none"> <li>a. Starting, peak, and final manpower requirements, including subcontractors. Include production rates if requested</li> <li>b. Shift work plan.</li> <li>c. Number of Foremen</li> <li>d. Anticipated lead times and permit approval.</li> </ul>

Attachment "B"  
SCOPE OF WORK  
TC-028 Fire Protection

	The Trade Contractor shall work with the Construction Manager and Contractors in "Pull Planning" and the 6-week look-ahead schedule, including manpower information, on a weekly basis. Compliance is a prerequisite for payment.
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<b>G. ALTERNATES</b>	
1.	The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.
ALT.1	None





**Attachment "B"**  
**SCOPE OF WORK**  
**TC-028 Fire Protection**

**BIDDER ECONOMIC INCLUSION EFFORTS**

The University of Kentucky is committed to serving as an advocate for diverse businesses and Kentucky located businesses. Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran, and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled. To be deemed a Kentucky located Business a company must have a physical facility located in the Commonwealth of Kentucky that is engaged in on-going business operations.

The University is committed to increasing the amount of goods and services acquired from businesses owned and controlled by diverse persons to 10% of all procurement expenditures. The University expects its suppliers to support and assist in this effort.

The University is also dedicated to increasing the amount of goods and services acquired from Kentucky located companies to the greatest extent possible in support of our economic development efforts.

If the total dollar amount of these contracts does not meet the University's goals for DBE and local businesses, you must provide documentation of your good faith efforts as part of your Determination of Responsibility submittal.

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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3. Kentucky Located Subcontractors

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4. Kentucky Located Materials Suppliers

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## Project Planning Template for the Enhanced Worker Experience

Project Name: UK Health Education Building  
Date: 9/9/2024  
PX: David Opalka  
Project Superintendent: Chad Denny

Project Number: 231053  
OM Approver: Tim Allison  
Sr. PM/PM: Benton Stegman

### **Turner's Commitment**

Turner is committed to elevating the Worker Experience on every one of our projects by creating an environment where everyone can be at their best, authentic, treated with respect and dignity, and eliminate Hate and Bias every minute of every day.

Our focus is to create and maintain a culture that is physically and emotionally safe, respectful, and inclusive for all. We recognize that actively caring for others also requires attention to the more tangible aspects of our projects. We want craftworkers to feel cared for, appreciated and respected. In this desired environment, craftworkers will prefer to work on Turner sites because of the improved the worker experience.

### **Project Overview**

As the largest academic building in the history of the University of Kentucky, the Michael D. Rankin M.D. Health Education Building will be a canvas for dynamic learning. Allowing the university to adapt to evolving educational needs while maintaining accreditation standards in the health industry. This project consists of a new building, 10 stories, over 520,000 square feet of mixed-use facilities to house world-class medical education facilities for the UK Colleges of: Medicine, Public Health, Health Sciences, and Nursing. This hub for health education will prepare the next generation of health leaders to help Kentuckians, and everyone, live longer, healthier lives. The project duration is approximately 28 months, that will see the site change from demolition of existing structures, excavations, erection, and fit out.

### **Signage and Communication**

1. Zero Tolerance/ Anti-Graffiti Signage – installed at all restrooms, entry gates, elevators, break area, TCCO offices, TCCO conference rooms and central corridors.
2. Turner Worker Commitment Poster –posted in Turner office for every orientated worker to sign after orientation.
3. Bias Motivated Event Hotline 888-738-1924– Hotline posted in break and stretch and flex area.
4. Responsible Person – Project team contact information presented at orientation and posted in common areas throughout the job.
5. ATS Onsite Athletic Trainer and First Aid Signage
  - a. Includes monthly health initiatives and health and wellness challenges.
  - b. Physical and Mental Health posters and QR codes for wellness appointments and more information on individual needs.
6. All signage to be posted in English & Spanish, with considerations for other languages if there becomes a need.
7. QR codes posted throughout project to identify needs/concerns on project site.

## Facilities

Every person who comes to a Turner site should expect that all facilities are appropriate to their intended use. They must be well-maintained, clean, and always stocked. Some visual examples can be accessed within Turner’s Standard of Care document. Turner must:

- Bathroom trailers are to be inspected at minimum 3 times daily and documented to ensure the following: cleanliness, like new condition with adequate supplies, free of graffiti or etched markings, hot/cold water operational at sinks, as well as HVAC in working condition. This form is digital and is tracked via Microsoft Forms.
- Perform a thorough first inspection on all facilities when delivered, or existing facilities, to ensure they are free from any graffiti or BME symbols, graphics, etchings, or markings before they are put into service.

## Break Area

1. Break area in basement of Dimock building.
2. Seating plan – folding tables and chairs available for workers during break and lunch.
3. Shelving and storage plan – individual offices installed in break area for contractor storage.
4. Microwaves plan – Microwaves provided in break area for hot food will increase accommodations as manpower increases.
5. Handwashing available inside each restroom trailer.
6. Portable air conditioners are arranged to cool the space.
7. Ice/water dispenser
8. Gatorade offered daily at entry point
9. Sunscreen and Hydration tablets offered at entry point

## Toilet Facilities

1. Temporary toilet trailers are to be considered the standard.
2. General conditions/site logistics must reflect a plan for the toilet facilities in each phase of the projects construction which get reviewed by the PX/OM. Trailer toilet complexes are the standard.
3. All stalls should be numbered.
4. Temporary restroom trailer in courtyard of Dimock
  - a. 4 men’s stalls, 3 urinals, 3 women’s stalls, and 4 sinks.



5. Restroom trailer northwest of Dimock.
  - a. 4 men's stalls, 3 urinals, 3 women's stalls, and 4 sinks.
6. Twice per week cleaning of restroom trailer and restocking of soap & paper products as necessary.
7. Inspection plans – inspected 3 times daily at each break and lunch for graffiti and cleanliness. These inspections will be logged digitally and maintained by Turner staff. Restroom areas to be monitored by EarthCam cameras 24/7.
8. Posted contact information – posted on portable restroom trailer with QR codes for workers to report unsatisfactory conditions.
9. Posted instructions for toilets in every stall.
10. Take measures to ensure mud will not be tracked into facilities.
11. Provide canopies to shield from sun or weather if waiting or when extreme temperatures are expected.

## **Other Facilities**

1. Non-flushable / non plumbed temporary toilets are strictly prohibited. (e.g. traditional port-a-johns or chemical toilets)
2. For locations where toilet trailers cannot be utilized (high-rises, roof construction, small SPD projects, etc.) a \*Flushable, non-plumbed temporary individual toilet can be utilized. Permission must be granted by the Operations Manager. The following criteria must be met with any temporary solution:
  - a. Flushable
  - b. Hot/Cold Water
  - c. Heated/Cooled (if possible)
  - d. Paper Towel Dispenser
  - e. Soap Dispenser
3. For renovations to existing structures where core toilet facilities are available, they should be protected and utilized using the same standards and protocols illustrated within this document.
4. Whenever existing core toilet facilities are used, an inspection must be done to ensure that they are in proper working order, graffiti, and vandalism free prior to possession.

## **Hand washing Station**

Adequate hand washing stations with hot and cold running water need to be provided and in convenient locations. [Click Here](#) for examples of portable handwashing stations

## **Cameras**

Cameras are to be stationed outside the toilet facilities.

## Special Accommodations

If requested, Turner will provide additional accommodation space in Turner office trailer for mother's room/prayer room/special requests. Features of room:

- Door that locks
- Electrical Outlet for Plugging in a breast pump.
- Lighting/ventilation
- Temperature controlled
- Refrigerator
- Table
- Microwave (sanitation/sterilization only)
- Sink
- Chair
- Counter for Supplies
- Occupied Sign for Door
- Waste Basket

## Hydration Options

Trade partners are required to provide their own water via general requirements scope. Each trade partner will submit a heat mitigation plan identifying how they are keeping employees safe and hydrated. Turner team to audit contractors on heat plan compliance on a weekly basis and log in SharePoint. Turner provides ATS onsite for heat and hydration information and resources. Onsite hydration popsicles and Gatorade in Break Area in the event a worker becomes overheated.

## Onsite Health and Wellness Specialist

Health and wellness specialist provided through Athletic Training Solutions (ATS). This specialist will: lead stretch & flex in mornings, provide mental and physical health and wellness education, provide onsite first aid, hold wellness challenges, monitor worker ergonomics, and injury prevention education.

## Parking and Access Way

Parking for trades is being offered on 432 Complex Drive (Office Trailer/Laydown area). This will become limited as more trades come to site and be reduced to 4 parking spaces per prime contractor.

## Orientations

Orientations are held every Monday and Wednesday in the Dimmock Building Conference Room after stretch and flex and PTP review (7:30 AM). Tim Sanford will oversee facilitation of orientations. Orientations are offered in English and Spanish. Senior staff will occasionally attend these to introduce themselves. Jobsite maps, PTP boards, Staff contact information are shown during orientation to familiarize workers with the project.

## Crew Leader and Trade Partner Training

All Turner Crew Leads (Foreman) receive required training through Turner Cincinnati SPD. These trainings are tracked and available using Labor Chart.

All Turner Crew (Craft Force) receive Safety Orientation at start of each project, all other trainings listed below are delivered during "Trade Onboarding" managed by the Business Unit. These trainings are tracked and available through Labor Chart.

Turner Onsite Superintendents will conduct trainings to Trade Partner Crew Leads such as Turner Safety Orientation, which includes Empathy on the jobsite, Inclusive and Respectful Workplace, Weekly Toolbox Talks, JHA Development and Pre-Task Planning.

## Turner Crew Leaders

- Safety Orientation (54 minute video includes Inclusive and Respectful Workplace and Empathy on the Jobsite videos).
- Ethics & Compliance for Crew Leaders (1-hour web-based course)
- Preventing Workplace Harassment for Crew Leaders (1-hour web-based course)
- Lead the Way (4-hour Business Unit Instructor Led Training)
- Pre-Task Planning (3, 1-hour Business Unit Instructor Led Trainings)

## Turner Crews

- Safety Orientation (54 minute video includes Inclusive and Respectful Workplace and Empathy on the Jobsite videos).
- Turner Proud (30-minute Business Unit Instructor Led Training)
- Culture of Compliance (30-minute Business Unit Instructor Led Training)
- Harassment-Free Workplace (30-minute Business Unit Instructor Led Training)
- Culture of Caring (30-minute Business Unit Instructor Led Training)

## Trade Partner Crew Leaders (all sub-tiers):

- Inclusive & Respectful Workplace (10-minute video)
- Empathy on the Jobsite (5-minute video)

## Required training to deliver to trade crews:

- Inclusive & Respectful Workplace (10-minute video)
- Empathy on the Jobsite (5-minute video)
- Toolbox Talks (15-minute huddle trainings) Series available, suggest holding every 2-3 weeks

*All trainings list will be continually updated to align with Annual National Training Plan.*

## Worker Engagement Opportunities

Keeping our workers engaged and connected leads to professional development and an enhanced working environment.

1. **ATS Challenges:** including Steps challenge, sleep hours challenge, blood pressure challenge. These challenges provide opportunities for rewards as well as engagement with the worker.
2. **Monthly safety raffle** for workers to receive gift cards, special parking privileges, etc.
3. **Prize raffles** around the holidays.
4. **Turner to hold safety stand downs** after every major holiday to help refocus workers.

5. Onsite athletic trainer who leads stretch and flex in mornings with educational segments, AT offers blood pressure testing, stretching programs, mental health discussions, etc.
6. Outside speakers to engage crews on safety items (fall protection, lift training, fire extinguishers, etc.)
7. 50% Completion/Top Out Lunch.
8. Safety Stand Down Week Appreciation Donuts, luncheon for workers on day 1 of safety week.

## **Feedback**

Obtaining and responding to feedback is a way to express respect for our workers. Feedback can be obtained in multiple ways including:

1. Five worker lunch – held monthly for continuous improvement.
2. “You said, We did” – post in break area for feedback.
3. Plus/Delta in weekly trade partner meeting.
4. QR Code as a digital form of SOAR box.

Activity ID	Activity Name	Orig Dur	Rem Dur	Activity % Complete	Start	Finish	Q												Q																							
							J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
<b>Attachment B BP 04 Bid Schedule</b>		845	601		29-Jun-23 A	28-Oct-26																																				
<b>Milestones</b>		534	271		29-Jun-23 A	07-Aug-25																																				
MS100	NTP	0	0	100%	29-Jun-23 A		◆ NTP																																			
CTR300	**JRA_BP-01B Construction Documents Complete**	0	0	100%		23-Oct-23 A	◆ **JRA_BP-01B Construction Documents Complete**																																			
01A1000	**JRA_BP-01A DA Documents for bidding Complete**	0	0	100%		23-Oct-23 A	◆ **JRA_BP-01A DA Documents for bidding Complete**																																			
A170	JRA_BP-02A CDs Complete - Foundations**	0	0	100%		19-Feb-24 A	◆ JRA_BP-02A CDs Complete - Foundations**																																			
CTR390	**JRA_BP-02B CDs Complete - Steel**	0	0	100%		20-May-24 A	◆ **JRA_BP-02B CDs Complete - Steel**																																			
CTR1030	JRA_BP-03 CDs Complete - MEP Equip and MEP Risers/Shafts	0	0	100%		20-May-24 A	◆ JRA_BP-03 CDs Complete - MEP Equip and MEP Risers/Shafts																																			
01A1250	JRA_BP-01A CDs Complete - DA/Shell/Core	0	0	100%		20-May-24 A	◆ JRA_BP-01A CDs Complete - DA/Shell/Core																																			
CTR470	JRA_BP-05 CDs Complete - Interior Fit Out	0	0	0%		15-Jul-24	◆ JRA_BP-05 CDs Complete - Interior Fit Out																																			
CTR520	JRA_BP-06 CDs Complete - Food Service	0	0	0%		21-Feb-25	◆ JRA_BP-06 CDs Complete - Food Service																																			
CTR1070	BP-02B Building Topped Out	0	0	0%		18-Mar-25	◆ BP-02B Building Topped Out																																			
CTR580	JRA_BP-07 CDs Complete - Signage	0	0	0%		30-Jun-25	◆ JRA_BP-07 CDs Complete - Signage																																			
01A1260	BP-01A Building Dry-In	0	0	0%		07-Aug-25	◆ BP-01A Building Dry-In																																			
<b>Pre-Construction/Design</b>		487	263		05-Jul-23 A	30-Jun-25																																				
<b>Permitting</b>		0	0																																							
<b>Contracting</b>		494	328		23-Oct-23 A	02-Oct-25																																				
<b>Submittals</b>		168	122		12-Apr-24 A	10-Dec-24																																				
<b>Approvals</b>		0	0																																							
<b>Fabrication &amp; Delivery</b>		432	372		25-Mar-24 A	04-Dec-25																																				
<b>Pre-Install Meetings</b>		0	0																																							
<b>VDC / BIM</b>		50	50		30-Aug-24	08-Nov-24																																				
CTR710	BP-03 MEP Riser BIM Coordination	50	50	0%	30-Aug-24	08-Nov-24	■ BP-03 MEP Riser BIM Coordination																																			
<b>Construction</b>		647	581		15-Mar-24 A	30-Sep-26																																				
<b>Sitework</b>		160	94		15-Mar-24 A	29-Oct-24																																				
<b>Demo, GT, Survey, Arborist, UG Elec</b>		131	65		15-Mar-24 A	18-Sep-24																																				
CTR1200	BP-01C Lead Time on Jersey Barriers	7	0	100%	15-Mar-24 A	25-Mar-24 A	■ BP-01C Lead Time on Jersey Barriers																																			
CTR360	BP-01C Set Up Site Fence & Jersey Barriers Phase I	10	0	100%	26-Mar-24 A	01-May-24 A	■ BP-01C Set Up Site Fence & Jersey Barriers Phase I																																			
CTR1210	BP-01C Abate Annex #5	10	0	100%	26-Mar-24 A	12-Apr-24 A	■ BP-01C Abate Annex #5																																			
CTR1270	PCO-001_UK Pricing & Proceed Allowance Approval for Abatement	1	0	100%	08-Apr-24 A	08-Apr-24 A	■ PCO-001_UK Pricing & Proceed Allowance Approval for Abatement																																			
CTR1240	BP-01C Abate Kelley Hall	5	0	100%	12-Apr-24 A	18-Apr-24 A	■ BP-01C Abate Kelley Hall																																			
CTR1250	PCO-001_Additional Asbestos Abatement Annex #5	20	0	100%	12-Apr-24 A	16-May-24 A	■ PCO-001_Additional Asbestos Abatement Annex #5																																			
CTR1280	PCO-003_JRA_Provide PCO 003 for Site Electrical Work	5	0	100%	12-Apr-24 A	26-Apr-24 A	■ PCO-003_JRA_Provide PCO 003 for Site Electrical Work																																			
CTR1260	PCO-001 Additional Abatement Kelley Hall	3	0	100%	19-Apr-24 A	09-May-24 A	■ PCO-001 Additional Abatement Kelley Hall																																			
CTR1300	BP-01C Install Temp Re-feed for Area B	5	0	100%	22-Apr-24 A	03-May-24 A	■ BP-01C Install Temp Re-feed for Area B																																			
CTR1320	PCO-003_JRA_Add Additional Scope to PCO-003	5	0	100%	29-Apr-24 A	08-May-24 A	■ PCO-003_JRA_Add Additional Scope to PCO-003																																			
CTR1330	PCO-003 Measure and Order Permanent Wire	55	18	67.27%	29-Apr-24 A	12-Jul-24	■ PCO-003 Measure and Order Permanent Wire																																			
CTR1290	PCO-003_TUR_Pricing PCO 003 Site Electrical Work	5	0	100%	09-May-24 A	06-Jun-24 A	■ PCO-003_TUR_Pricing PCO 003 Site Electrical Work																																			
CTR340	BP-01C Demo Kelley Building	10	0	100%	13-May-24 A	31-May-24 A	■ BP-01C Demo Kelley Building																																			
CTR350	BP-01C Demo Med Center Annex #5	10	0	100%	29-May-24 A	07-Jun-24 A	■ BP-01C Demo Med Center Annex #5																																			
CTR1350	PCO-003_UK Approval of Pricing to Proceed	5	9	0%	07-Jun-24 A	28-Jun-24	■ PCO-003_UK Approval of Pricing to Proceed																																			
CTR440	BP-01C Demo UG Elec within Phase I fencing	5	5	0%	25-Jun-24	01-Jul-24	■ BP-01C Demo UG Elec within Phase I fencing																																			
CTR1340	PCO-003 Install new Ductbank at Comer Huguelet & University Dr.	15	15	0%	23-Jul-24	12-Aug-24	■ PCO-003 Install new Ductbank at Comer Huguelet & University Dr.																																			
CTR460	BP-01C Pull Electrical Feeds	10	10	0%	13-Aug-24	26-Aug-24	■ BP-01C Pull Electrical Feeds																																			
CTR740	BP-01C Set Switches and Terminate	3	3	0%	22-Aug-24	26-Aug-24	■ BP-01C Set Switches and Terminate																																			

■ Actual Work  
■ Remaining Work  
■ Critical Remaining Work  
◆ Milestone  
◆ Completed Milestone

**Attachment B BP 04 Bid Schedule**  
**Data Date 18-Jun-24**



Start Date 29-Jun-23  
 Finish Date 28-Oct-26  
 Data Date 18-Jun-24

Activity ID	Activity Name	Orig Dur	Rem Dur	Activity % Complete	Start	Finish	Gantt Chart																																		
							J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
<b>Area A</b>																																									
CTR1100	BP-01C Install Temp Re-feed for Area A	15	5	66.67%	03-May-24 A	22-Jul-24	■ BP-01C Install Temp Re-feed for Area A																																		
CTR450	BP-01C Install new Ductbank and MH's Area A	20	13	35%	29-May-24 A	05-Jul-24	■ BP-01C Install new Ductbank and MH's Area A																																		
CTR2495	BP-01C PM50 Outage for Area A	15	5	66.67%	13-Jun-24 A	24-Jun-24	■ BP-01C PM50 Outage for Area A																																		
CTR1450	PCO-003 Develop and Approve Road Closure Plan Area A	15	15	0%	01-Jul-24	22-Jul-24	■ PCO-003 Develop and Approve Road Closure Plan Area A																																		
<b>Area B</b>																																									
CTR1480	BP-01C Install new Ductbank and MH's Area B	15	4	73.33%	16-May-24 A	21-Jun-24	■ BP-01C Install new Ductbank and MH's Area B																																		
CTR430	BP-02 Install New Site Utilities Area B	10	10	0%	28-Aug-24	11-Sep-24	■ BP-02 Install New Site Utilities Area B																																		
CTR730	BP-02 Demo Existing Utilities Area B	5	5	0%	12-Sep-24	18-Sep-24	■ BP-02 Demo Existing Utilities Area B																																		
<b>Dimock Sanitary Work</b>																																									
A350	BP-01E Install new SAN inside Dimmock	10	0	100%	01-Apr-24 A	05-Apr-24 A	■ BP-01E Install new SAN inside Dimmock																																		
A340	BP-01E Excavate and install new SAN piping and Dilution pit	5	0	100%	12-Apr-24 A	18-Apr-24 A	■ BP-01E Excavate and install new SAN piping and Dilution pit																																		
A360	BP-01E Tie into Existing SAN for Site Elec to complete work	1	0	100%	12-Apr-24 A	12-Apr-24 A	■ BP-01E Tie into Existing SAN for Site Elec to complete work																																		
A370	BP-01E Demo interior and exterior piping	5	0	100%	15-Apr-24 A	19-Apr-24 A	■ BP-01E Demo interior and exterior piping																																		
<b>Site Ex., UG Utilities Phase II</b>																																									
<b>Site Area A</b>																																									
CTR2485	BP-02 Excavate Within Kelley Hall Footprint Area A	6	4	33.33%	13-Jun-24 A	21-Jun-24	■ BP-02 Excavate Within Kelley Hall Footprint Area A																																		
CTR510	BP-02 Excavate/Rock Removal & Shore Ductbank Area A	34	34	0%	25-Jun-24	12-Aug-24	■ BP-02 Excavate/Rock Removal & Shore Ductbank Area A																																		
CTR380	BP-02 Install New Site Utilities Area A	40	40	0%	02-Jul-24	27-Aug-24	■ BP-02 Install New Site Utilities Area A																																		
CTR370	BP-02 Demo Existing Utilities Area A	15	15	0%	28-Aug-24	18-Sep-24	■ BP-02 Demo Existing Utilities Area A																																		
<b>Site Area B</b>																																									
CTR1090	BP-02 Excavate/Rock Removal & Shore Ductbank Area B	25	25	0%	27-Aug-24	01-Oct-24	■ BP-02 Excavate/Rock Removal & Shore Ductbank Area B																																		
<b>Site Area C</b>																																									
CTR1370	BP-02 Excavate/Rock Removal Area C	20	20	0%	02-Oct-24	29-Oct-24	■ BP-02 Excavate/Rock Removal Area C																																		
<b>North</b>																																									
<b>South</b>																																									
<b>Building</b>																																									
<b>STRUCTURE</b>																																									
<b>Foundations</b>																																									
<b>Foundations Area A</b>																																									
CTR780	BP-02 Install Underslab Utilities Mains & ALL Rock Removal Area A	37	37	0%	24-Jul-24	13-Sep-24	■ BP-02 Install Underslab Utilities Mains & ALL Rock Removal Area A																																		
CTR620	BP-02 Construct Building Foundations Area A	45	45	0%	21-Aug-24	23-Oct-24	■ BP-02 Construct Building Foundations Area A																																		
CTR790	BP-02 Install Underslab Utilities Branch Lines Area A	10	10	0%	24-Oct-24	06-Nov-24	■ BP-02 Install Underslab Utilities Branch Lines Area A																																		
CTR1640	BP-04 Install CMU for SOG work Area B	5	5	0%	31-Oct-24	06-Nov-24	■ BP-04 Install CMU for SOG work Area B																																		
CTR800	BP-02 Prep/Pour SOG Area A	15	15	0%	07-Nov-24	27-Nov-24	■ BP-02 Prep/Pour SOG Area A																																		
<b>Foundations Area B</b>																																									
CTR930	BP-02 Install Underslab Utilities Mains & ALL Rock Removal Area B	15	15	0%	02-Oct-24	22-Oct-24	■ BP-02 Install Underslab Utilities Mains & ALL Rock Removal Area B																																		
CTR940	BP-02 Construct Building Foundations Area B	30	30	0%	24-Oct-24	06-Dec-24	■ BP-02 Construct Building Foundations Area B																																		
CTR950	BP-02 Install Underslab Utilities Branch Lines Area B	5	5	0%	09-Dec-24	13-Dec-24	■ BP-02 Install Underslab Utilities Branch Lines Area B																																		
CTR1680	BP-04 Install CMU for SOG work Area B	5	5	0%	09-Dec-24	13-Dec-24	■ BP-04 Install CMU for SOG work Area B																																		
CTR1020	BP-02 Prep/Pour SOG Area B	7	7	0%	16-Dec-24	24-Dec-24	■ BP-02 Prep/Pour SOG Area B																																		
<b>Foundations Area C</b>																																									
CTR1390	BP-02 Install Underslab Utilities & ALL Rock Removal Area C	5	5	0%	30-Oct-24	05-Nov-24	■ BP-02 Install Underslab Utilities & ALL Rock Removal Area C																																		
CTR1380	BP-02 Construct Building Foundations Area C	15	15	0%	09-Dec-24	30-Dec-24	■ BP-02 Construct Building Foundations Area C																																		
CTR1400	BP-02 Install Underslab Branch Lines Area C	5	5	0%	31-Dec-24	07-Jan-25	■ BP-02 Install Underslab Branch Lines Area C																																		
CTR1410	BP-02 Prep/Pour SOG Area C	5	5	0%	08-Jan-25	14-Jan-25	■ BP-02 Prep/Pour SOG Area C																																		
<b>Structural Steel</b>																																									
<b>Structure Area A</b>																																									
CTR650	BP-03 Install Steel Area A	60	60	0%	21-Nov-24	18-Feb-25	■ BP-03 Install Steel Area A																																		
CTR660	BP-03 Install Decking/Detailing - Area A	75	75	0%	02-Dec-24	18-Mar-25	■ BP-03 Install Decking/Detailing - Area A																																		
CTR770	BP-03 Install Cast-In-Place Shaft Walls Area A	65	65	0%	23-Dec-24	25-Mar-25	■ BP-03 Install Cast-In-Place Shaft Walls Area A																																		
CTR1160	BP-06 Sleeves and box outs Area A	45	45	0%	29-Jan-25	01-Apr-25	■ BP-06 Sleeves and box outs Area A																																		
CTR670	BP-03 FRP Concrete SOMD Area A	50	50	0%	05-Feb-25	15-Apr-25	■ BP-03 FRP Concrete SOMD Area A																																		



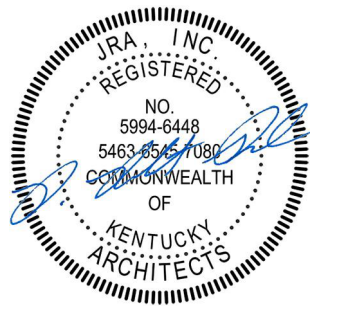
12-Feb-26	Activity Name	Orig Dur	Rem Dur	Activity % Complete	Start	Finish	Q Q																																		
							J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
<b>Structure Area B</b>		80	80		08-Jan-25	29-Apr-25																																			
CTR1110	BP-03 Install Steel Area B	30	30	0%	08-Jan-25	18-Feb-25	BP-03 Install Steel Area B																																		
CTR1120	BP-03 Install Decking Area B	50	50	0%	08-Jan-25	18-Mar-25	BP-03 Install Decking Area B																																		
CTR1130	BP-03 Install Cast-In-Place Shaft Walls Area B	40	40	0%	29-Jan-25	25-Mar-25	BP-03 Install Cast-In-Place Shaft Walls Area B																																		
CTR1170	BP-06 Sleeves and box outs Area B	26	26	0%	25-Feb-25	01-Apr-25	BP-06 Sleeves and box outs Area B																																		
CTR1140	BP-03 FRP Concrete SOMD Area B	30	30	0%	19-Mar-25	29-Apr-25	BP-03 FRP Concrete SOMD Area B																																		
<b>Structure Area C</b>		55	55		19-Feb-25	06-May-25																																			
CTR1460	BP-03 Install Steel Area C	20	20	0%	19-Feb-25	18-Mar-25	BP-03 Install Steel Area C																																		
CTR1470	BP-03 Install Decking Area C	35	35	0%	26-Feb-25	15-Apr-25	BP-03 Install Decking Area C																																		
CTR1420	BP-03 Install Cast-In-Place Shaft Walls Area C	25	25	0%	19-Mar-25	22-Apr-25	BP-03 Install Cast-In-Place Shaft Walls Area C																																		
CTR1430	BP-06 Sleeves and box outs Area C	20	20	0%	02-Apr-25	29-Apr-25	BP-06 Sleeves and box outs Area C																																		
CTR1440	BP-03 FRP Concrete SOMD Area C	15	15	0%	16-Apr-25	06-May-25	BP-03 FRP Concrete SOMD Area C																																		
<b>ENVELOPE</b>		95	95		26-Mar-25	07-Aug-25																																			
<b>Curtain Wall/Precast/Roofing</b>		95	95		26-Mar-25	07-Aug-25																																			
<b>Envelope Area A</b>		40	40		26-Mar-25	20-May-25																																			
01A1180	BP-01A Install Arch. Precast A	40	40	0%	26-Mar-25	20-May-25	BP-01A Install Arch. Precast A																																		
A180	BP-04 Install Roofing Area A	30	30	0%	02-Apr-25	13-May-25	BP-04 Install Roofing Area A																																		
01A1170	BP-01A Install Curtain Wall Area A	20	20	0%	23-Apr-25	20-May-25	BP-01A Install Curtain Wall Area A																																		
<b>Envelope Area B</b>		50	50		07-May-25	17-Jul-25																																			
A510	BP-04 Install Roofing Area B	15	15	0%	07-May-25	28-May-25	BP-04 Install Roofing Area B																																		
01A1370	BP-01A Install Curtain Wall Area B	40	40	0%	21-May-25	17-Jul-25	BP-01A Install Curtain Wall Area B																																		
01A1380	BP-01A Install Arch Precast Area B	15	15	0%	21-May-25	11-Jun-25	BP-01A Install Arch Precast Area B																																		
<b>Envelope Area C</b>		50	50		29-May-25	07-Aug-25																																			
A520	BP-04 Install Roofing Area C	10	10	0%	29-May-25	11-Jun-25	BP-04 Install Roofing Area C																																		
01A1410	BP-01A Install Arch Precast Area C	10	10	0%	12-Jun-25	25-Jun-25	BP-01A Install Arch Precast Area C																																		
01A1420	BP-01A Install Curtain Wall Area C	15	15	0%	18-Jul-25	07-Aug-25	BP-01A Install Curtain Wall Area C																																		
<b>INTERIORS</b>		416	416		12-Feb-25	30-Sep-26																																			
<b>Elevators</b>		195	195		14-May-25	19-Feb-26																																			
CTR810	BP-01B Install Remaining Elevators	195	195	0%	14-May-25	19-Feb-26	BP-01B Install Remaining Elevators																																		
CTR920	**BP-01B Install Service Cars for Construction Use**	75	75	0%	29-May-25	12-Sep-25	**BP-01B Install Service Cars for Construction Use																																		
<b>Elevators Area A</b>		0	0																																						
<b>Elevators Area B</b>		0	0																																						
<b>Elevators Area C</b>		0	0																																						
<b>MEP Equip and MEP Risers/Shafts</b>		99	99		26-Mar-25	13-Aug-25																																			
<b>MEP Risers/Shafts Area A</b>		33	33		26-Mar-25	09-May-25																																			
CTR820	BP-04 Install MEP Risers Area A	33	33	0%	26-Mar-25	09-May-25	BP-04 Install MEP Risers Area A																																		
<b>MEP Risers/Shafts Area B</b>		33	33		12-May-25	26-Jun-25																																			
CTR860	BP-04 Install MEP Risers Area B	33	33	0%	12-May-25	26-Jun-25	BP-04 Install MEP Risers Area B																																		
<b>MEP Risers/Shafts Area C</b>		33	33		27-Jun-25	13-Aug-25																																			
CTR870	BP-04 Install MEP Risers Area C	33	33	0%	27-Jun-25	13-Aug-25	BP-04 Install MEP Risers Area C																																		
<b>Arch./MEP/AV/Fire Proofing</b>		416	416		12-Feb-25	30-Sep-26																																			
<b>Interiors Area A</b>		405	405		12-Feb-25	15-Sep-26																																			
<b>Basement</b>		190	190		12-Feb-25	07-Nov-25																																			
CTR830	BP-06 Hangers & Top Track Basement Area A	5	5	0%	12-Feb-25	18-Feb-25	BP-06 Hangers & Top Track Basement Area A																																		
CTR840	BP-04 Install Fireproofing Basement Area A	5	5	0%	19-Feb-25	25-Feb-25	BP-04 Install Fireproofing Basement Area A																																		
CTR850	BP-04 MEP OH. R.I. Mech. Room Area A	80	80	0%	26-Feb-25	18-Jun-25	BP-04 MEP OH. R.I. Mech. Room Area A																																		
CTR910	BP-05 MEP OH R.I. Basement Area A	30	30	0%	19-Jun-25	31-Jul-25	BP-05 MEP OH R.I. Basement Area A																																		
CTR1150	BP-06 Framing & In-wall Basement Area A	25	25	0%	11-Jul-25	14-Aug-25	BP-06 Framing & In-wall Basement Area A																																		
CTR1190	BP-06 Finishes Basement Area A	50	50	0%	15-Aug-25	24-Oct-25	BP-06 Finishes Basement Area A																																		
CTR2455	TCCO Punch Basement Area A	10	10	0%	27-Oct-25	07-Nov-25	TCCO Punch Basement Area A																																		
<b>Level 1</b>		160	160		19-Feb-25	03-Oct-25																																			
CTR1180	BP-06 Hangers & Top Track Area A Lvl 1	5	5	0%	19-Feb-25	25-Feb-25	BP-06 Hangers & Top Track Area A Lvl 1																																		
A190	BP-04 Install Fireproofing Area A Lvl 1	5	5	0%	05-Mar-25	11-Mar-25	BP-04 Install Fireproofing Area A Lvl 1																																		
CTR890	BP-06 MEP OH. R.I. Area A Lvl 1	50	50	0%	16-Apr-25	25-Jun-25	BP-06 MEP OH. R.I. Area A Lvl 1																																		
CTR880	BP-06 Framing & In-wall Area A Lvl 1	25	25	0%	07-May-25	11-Jun-25	BP-06 Framing & In-wall Area A Lvl 1																																		











RESERVED FOR AHJ STAMP



10 S. Broadway Suite 200  
St. Louis, MO 63102  
314.421.2000

BP-04F

**MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ARCHITECTURAL**

PROJECT 202170  
DATE 08.06.24

**REVISIONS**

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**OVERALL  
BASEMENT  
FLOOR PLAN**

**A-000**

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North Temp. 1000 A  
Distribution Panelboard

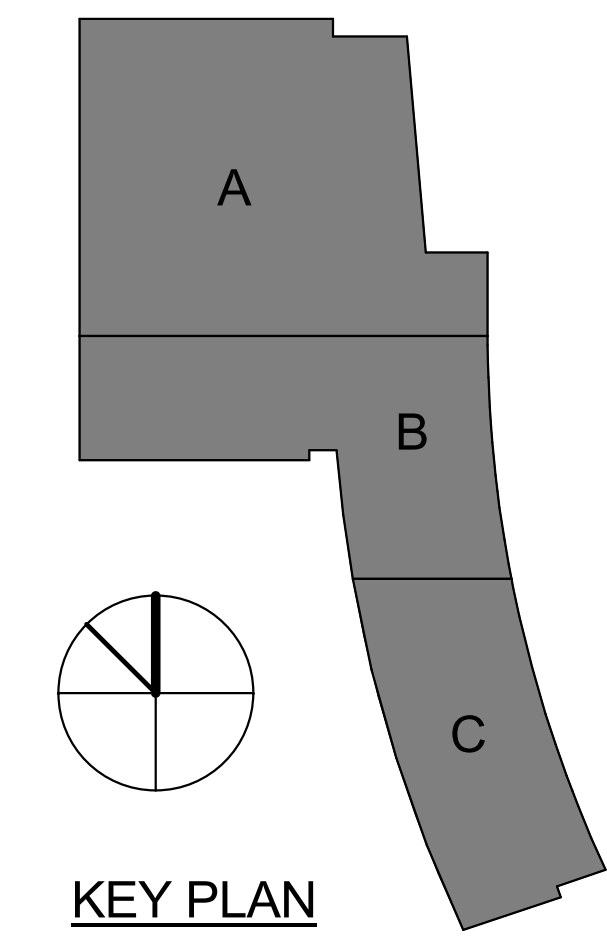
Buck Hoists:  
Provide two 200A /  
480V / 3Ph to feed  
Hoists with Breakers  
and Disconnects

Existing conduit

South Temp. 1000 A  
Distribution Panelboard

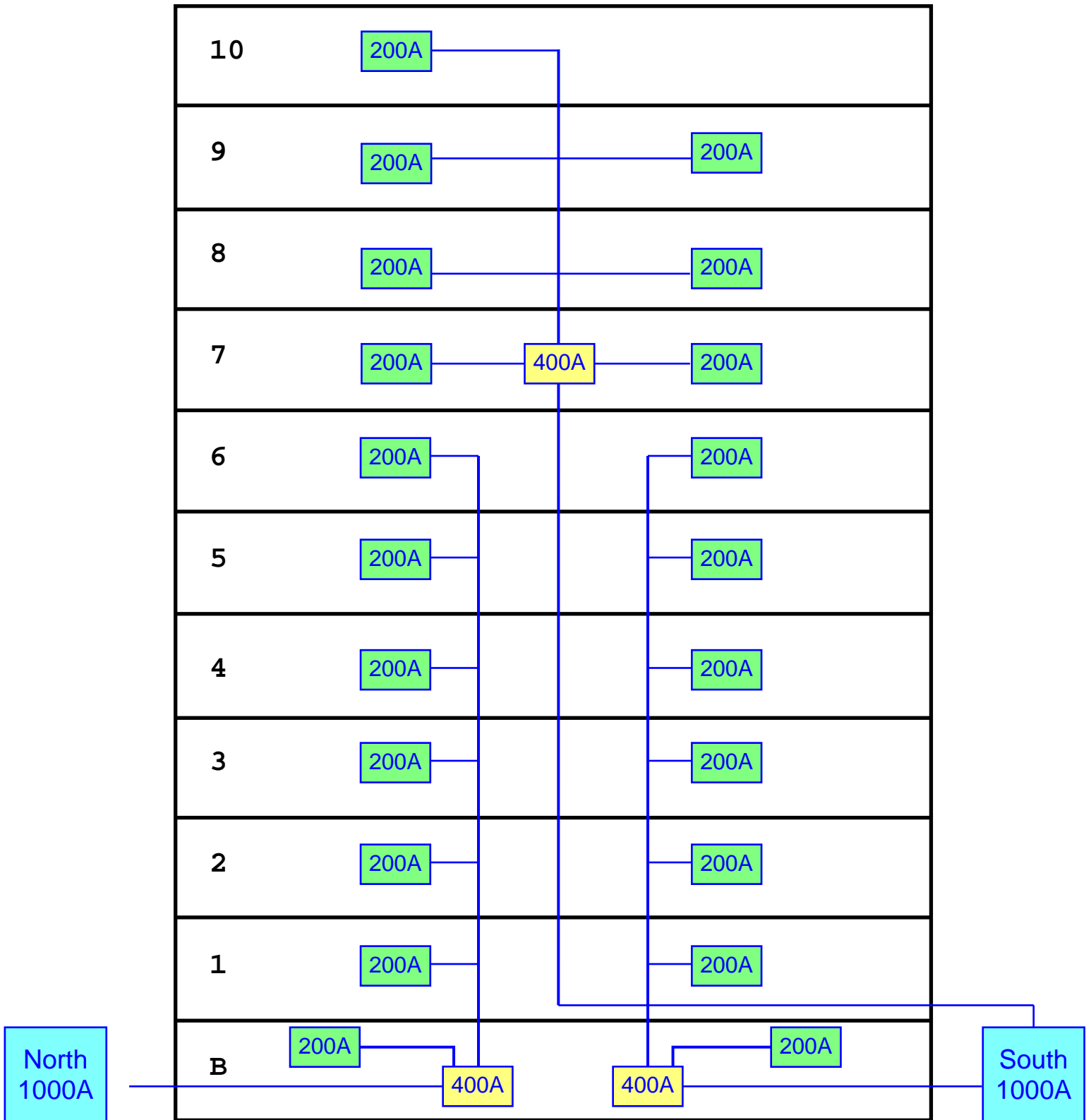
400A/480V Panelboards

RATED WALL LEGEND	
	NON-RATED
	SMOKE PARTITION
	1-HOUR FIRE BARRIER
	2-HOUR FIRE BARRIER



**A** OVERALL BASEMENT FLOOR PLAN  
3/64" = 1'-0"

**SK-003.1**



Temporary Power One-Line Schematic

**SK-003.2**

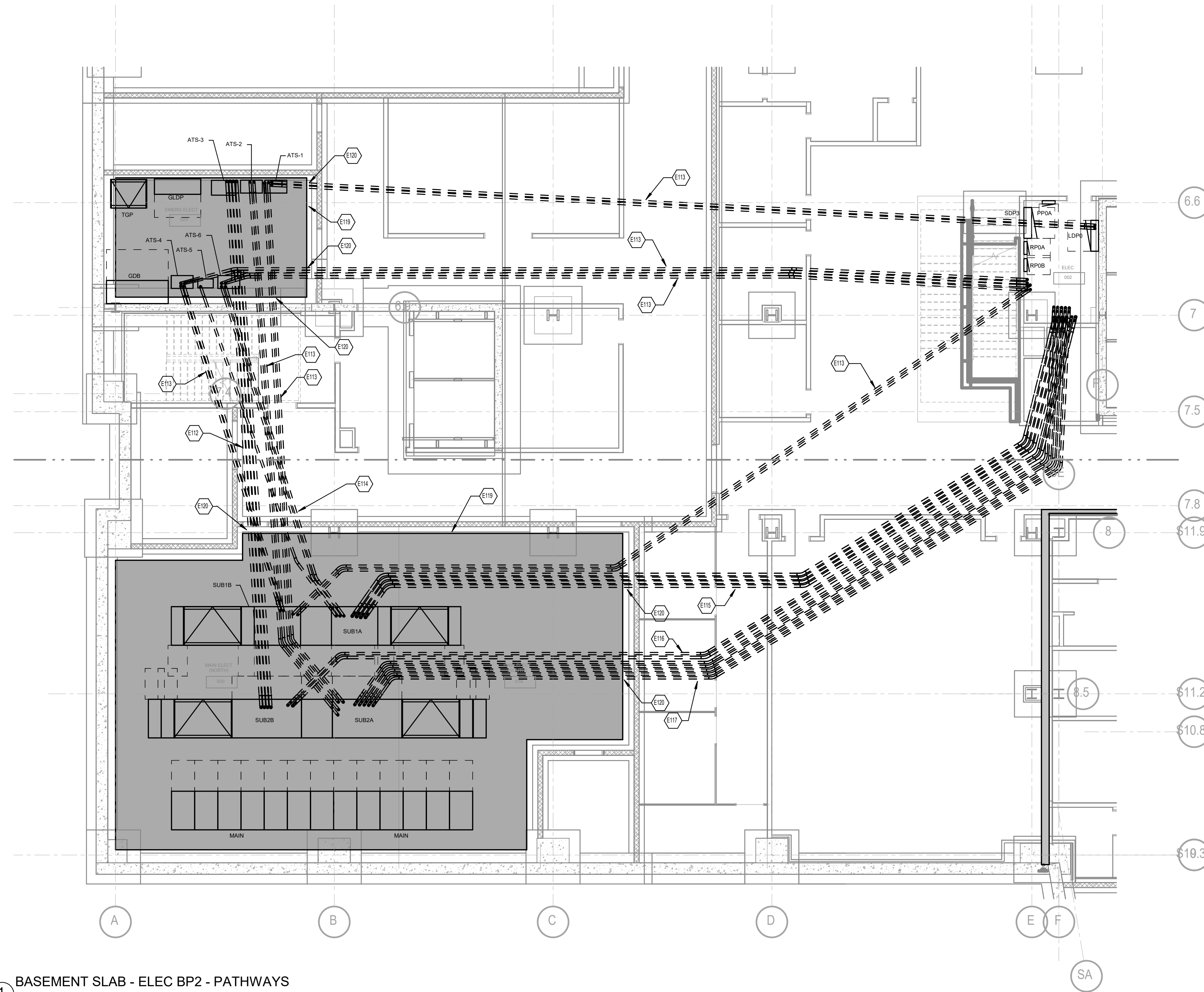
**ROUTING NOTES**

ALL CONDUIT AND PATHWAY ROUTING SHOWN IS TO BE INTERPRETED AS A SUGGESTED LOCATION ONLY. THE ELECTRICIAN IS RESPONSIBLE FOR ALL LAYOUT FULLY COORDINATE THE INSTALLATION WITH ALL OTHER TRADES AND WITH EQUIPMENT BEING INSTALLED.

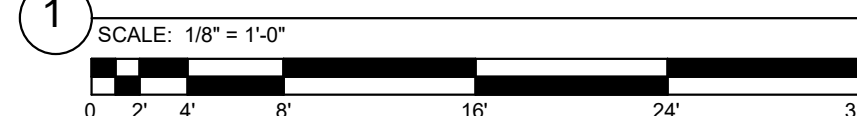
ROUTE ALL PATHWAYS TO AVOID INTERFERENCE WITH STRUCTURE AND OTHER TRADES. PROVIDE CODE-COMPLIANT PULLBOXES AS NECESSARY FOR CABLE INSTALLATION. DO NOT EXCEED MAXIMUM PULLING TENSIONS OR DEGREES OF BEND IN ANY RUN.

**TAGGED NOTES**

- E112 FOUR (4) 3-1/2" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E113 TWO (2) 3" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E114 THREE (3) 3" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E115 EIGHT (8) 3-1/2" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E116 TWO (2) 3" CONDUITS AND TWO (2) 3-1/2" CONDUITS ROUTED UNDERSLAB REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E117 TEN (10) 3-1/2" CONDUITS ROUTED UNDERSLAB. REFER TO ONE-LINE DIAGRAM FOR CONNECTION POINTS. COORDINATE EXACT LOCATION WITH EQUIPMENT LOCATIONS.
- E119 OVEREXCAVATE TO A MINIMUM OF 6" BELOW SLAB ELEVATION AND LEAVE BEHIND GRAVEL. IN THIS AREA, CONDUIT IS TO BE COMPLETED UNDER A FUTURE BID PACKAGE.
- E120 CONTACTOR SHALL BACKFILL, MARK AND CAP ALL CONDUITS AT THIS BOUNDARY.

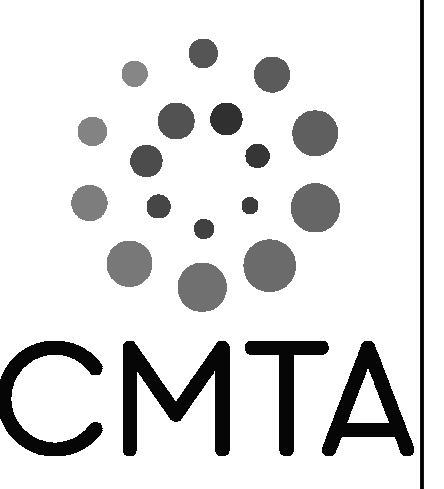


**1 BASEMENT SLAB - ELEC BP2 - PATHWAYS**



3225 Summit Square Plaza, Suite 200  
Lexington, Kentucky 40509  
859.252.6781

RESERVED FOR AHJ STAMP



**BP-02**  
**MICHAEL D. RANKIN MD HEALTH**  
**EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY  
1149 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**ELECTRICAL**

PROJECT	202170/KXSM21
DATE	09/11/2024

REVISIONS		
No.	Description	Date
3	BP-2 PCD #17	09/10/24

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**ELECTRICAL FLOOR PLANS - PATHWAYS - BP2**

**E-200**

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