



University of Kentucky®

Procurement Services

INVITATION FOR BIDS

CCK-2979.00-1-26

UK North Farm Seedhouse

ADDENDUM #4

01/29/2026

IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY: 02/05/2026 @ 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: UPDATES TO ORIGINAL BID DOCUMENTS

- Please refer to and incorporate into your bid the enclosed additional information and Questions & Answers, from the project team.
- If you have any questions, feel free to contact Ken Scott at the number below or at Kenneth.Scott@uky.edu.

OFFICIAL APPROVAL
UNIVERSITY OF KENTUCKY

SIGNATURE

01/29/2026

Ken Scott

Ken Scott / (859) 257-9102

Typed or Printed Name

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



UK Project #: 2979.0 Seedhouse

Addendum #4

Issued: January 29, 2026

BIDDER QUESTIONS:

1. Refer to attached UK Seedhouse, Question and Response Log. CCK2979.00-1-26 Q Log

ARCHITECTURAL

Plan Sheet Changes:

2. Refer to attached revised sheet G002 – CODE SHEET for updated code information.
3. Refer to attached revised sheet A110 – FIRST FLOOR for updates to FLOOR PLAN CODED NOTES:
 - a. Code Notes 3, 4, 12, 14, and 20 are to be changed to 'OFOI'.
4. Refer to attached revised sheet A400 – ENLARGED FLOOR PLANS for added Interior Elevation markers at Work Room 114.
5. Refer to attached revised sheet A401 – VESTIBULE / DOCK PLANS / DETAILS.
 - a. Exterior concrete stair width changed from 4'-0" to 4'-6".
 - b. Exterior concrete stair landing width changed from 4'-0" to 4'-6".
 - c. Exterior concrete stair landing length changed from 3'-11" to 5'-5".
 - d. Guardrail and Handrail extents and layout have been updated.
 - e. All Guardrails and Handrails are to be cored / embedded.
 - Delete edge angle along outside edge of stair (as shown in detail P/S301).
 - No handrail is to occur along dock guardrails.
 - Stair handrails are to extend a minimum of 1'-0" beyond bottom and top treads.
6. Refer to attached new sheet A402 – INTERIOR ELEVATIONS for added Interior Elevations for Work Room 114.
7. Refer to attached revised sheet A600 for finish selections and for updated Tile Base to rooms 106 and 119.

Specification Changes:

8. Section 000110 Table of Contents. Add the following sections:
 - a. Section 101100 Visual Display Units (attached)
 - b. Section 111313 Loading Dock Bumpers (attached)
9. Refer to Section 114000 – Foodservice Equipment. Add the following section:
"Section 2.1 subparagraph I: Provide a delegated design for the walk-in cooler structural performance, sealed by a licensed Professional Engineer, verifying that the ceiling, wall, and connection assemblies are engineered to resist all imposed loads; including dead load, imposed equipment loads, maintenance loads, and applicable snow, wind, and seismic loads maintaining required panel integrity, deflection limits, and long-term thermal performance."

MEP**Plan Sheet Changes:**

10. See revised RTU Schedule on sheet M-800.
11. See revised Fan schedule on sheet M-800.
12. See revised Electrical sheets in response to bidder questions.

Attachments:

1. CCK2979.00-1-26 Q Log
2. G002 – CODE SHEET
3. A110 – FIRST FLOOR
4. A400 – ENLARGED FLOOR PLANS
5. A401 – VESTIBULE / DOCK PLANS / DETAILS
6. A402 – INTERIOR ELEVATIONS
7. A600 – FINISH FLOOR PLAN
8. M800 - MECHANICAL SCHEDULES
9. E101 - FIRST FLOOR ELECTRICAL DEMOLITION PLAN – SEEDHOUSE
10. E102 - UPPER LEVEL ELECTRICAL DEMOLITION PLAN – SEEDHOUSE
11. E201 - FIRST FLOOR LIGHTING PLAN – SEEDHOUSE
12. E202 - UPPER LEVEL LIGHTING PLAN – SEEDHOUSE
13. E203 - LUMINAIRE SCHEDULES
14. E301 - FIRST FLOOR POWER PLAN – SEEDHOUSE
15. E401 - FIRST FLOOR TECHNOLOGY PLAN – SEEDHOUSE
16. E402 - UPPER LEVEL TECHNOLOGY PLAN – SEEDHOUSE
17. E701 - ELECTRICAL ONE-LINE DIAGRAM
18. 101100 – VISUAL DISPLAY UNITS
19. 111313 – LOADING DOCK BUMPERS

END OF ADDENDUM

CCK2979.00-1-26
 UK North Farm Seedhouse
 Question and Response Log
 As of: 01/29/2026

#	Date	Question	Responder	Response	Release
1	1/5/2026	In reference to the Building Permit Fee (not the Plan Review Fee), has the overall building permit already been applied for, and are we responsible for the cost, or has the permit cost already been paid?	Morris Workshop	The Building Permit and Fee were submitted for review on 12/11/25. The State Plumbing Permit has been approved as of 12/18/25.	Addendum #4 - 1/29/2026
2	1/5/2026	Are we required to carry Builders Risk Insurance?	UK CPMD	Yes, the contractor will be required to carry Builders Risk Insurance.	Addendum #4 - 1/29/2026
3	1/5/2026	Will BIM Drawings be required?	UK CPMD	BIM drawings will not be required for this project.	Addendum #4 - 1/29/2026
4	1/5/2026	If Rock is encountered during excavations, will the cost for Rock Removal be paid by Change Order?	UK CPMD	The excavation is unclassified, meaning the contractor will be responsible for excavating all materials within the excavation area.	Addendum #4 - 1/29/2026
5	1/5/2026	If Unsuitable Soils are encountered during excavations, will the cost for remediation be paid by Change Order?	UK CPMD	Depending on the extent of unsuitable soil remediation required, UK is open to covering these costs via change order.	Addendum #4 - 1/29/2026
6	1/5/2026	In regard to Penetration Firestopping and Joint Firestopping, will you require all Firestopping from multiple trades to be performed by a single sole source certified firestopping contractor?	UK CPMD	3rd party firestopping is not required for this project; however, UK does list five firestopping installers that meet UK specifications.	Addendum #4 - 1/29/2026
7	1/5/2026	In regard to Penetration Firestopping and Joint Firestopping, will you require 3rd Party Special Inspections?	UK CPMD	3rd party firestopping inspections will be performed by the design team.	Addendum #4 - 1/29/2026
8	1/5/2026	In regard to Penetration Firestopping and Joint Firestopping, will the Owner or GC be responsible for the 3rd Party Special Inspection cost?	UK CPMD	3rd party firestopping inspections will be performed by the design team under their contract with UK.	Addendum #4 - 1/29/2026
9	1/5/2026	What is the project budget?	UK CPMD	\$1,600,000	Addendum #4 - 1/29/2026
10	1/5/2026	Please confirm Construction Fencing will not be required?	Morris Workshop	Construction Fencing is not required. The Contractor is responsible for providing fencing / blockades for safety as required. Also, refer to A100 - Site Logistics Plan.	Addendum #4 - 1/29/2026
11	1/5/2026	Please confirm we are not to include any allowances?	Morris Workshop	There are no allowances.	Addendum #4 - 1/29/2026
12	1/5/2026	Please confirm we can use Owner Electricity and Water for Construction?	UK CPMD	A limited amount of water is available on-site for construction purposes. Additionally, a limited amount of owner electric, enough to power standard construction power tools, is available.	Addendum #4 - 1/29/2026
13	1/5/2026	Drawing A110 indicates a lot of Owner Furnished Furnishings are to be Contractor Installed (furniture, storage racks, filing cabinets, etc.). Please confirm we are required to install, or if the Owners vendor will be responsible for these installs?	Morris Workshop	Refer to attached revised sheet A110. Code Notes 3, 4, 12, 14, and 20 are to be changed to 'OFOI'.	Addendum #4 - 1/29/2026
14	1/5/2026	Can you provide a specification section for the Marker Board/Tack Boards that are to be provided?	Morris Workshop	Refer to attached specification 101100 Visual Display Units	Addendum #4 - 1/29/2026
15	1/5/2026	Can you provide a specification section for the Loading Dock Bumpers?	Morris Workshop	Refer to attached specification 111313 Loading Dock Bumpers	Addendum #4 - 1/29/2026
16	1/5/2026	Please confirm who is responsible for providing the Walk-In Cooler Unit?	Morris Workshop	The Contractor is responsible for providing the Walk-In Cooler.	Addendum #4 - 1/29/2026
17	1/5/2026	Please confirm who is responsible for the Cold Storage Racks?	Morris Workshop	The Cold Storage Racks are Owner Furnished Owner Installed (OFOI).	Addendum #4 - 1/29/2026
18	1/5/2026	The drawings show windows on the coiling door, but they are not mentioned in the specs. My door vendor has informed me that given the wind load requirements from the specs for that door, the windows are not applicable in that door with those wind specs. Are the windows required?	Morris Workshop	No windows are to be in the coiling door.	Addendum #4 - 1/29/2026
19	1/5/2026	The drawings show dock bumpers on the new loading dock area, but there are no specs or details (that I can find) in the plans. What are the specs, if any, on the dock bumpers?	Morris Workshop	Refer to attached specification 111313 Loading Dock Bumpers	Addendum #4 - 1/29/2026

20	1/5/2026	Are there any elevations for workroom 114?	Morris Workshop	Refer to attached revised sheet A400 and added sheet A402	Addendum #4 - 1/29/2026
21	1/5/2026	What mockups are required for our scope?	Morris Workshop	Approved color samples are sufficient and no casework mockup will be required.	Addendum #4 - 1/29/2026
22	1/8/2026	On the lighting plan, alternate #1 is shown as alternate #2, and alternate #2 is shown to be included as alternate #3. Can you clarify if this is correct or if we need to follow the alternates how it is shown on the power plans?	KFI	Alternates have been fixed accordingly. See attached revised sheets.	Addendum #4 - 1/29/2026
23	1/8/2026	Are we only replacing the bulbs in the fixtures shown on the upper level on sheet E202 or are we providing brand new fixtures?	KFI	Yes, bulb replacement only on the upper levels.	Addendum #4 - 1/29/2026
24	1/8/2026	Are we providing new lighting fixtures or bulbs on the 3rd level as well? The plans only show one upper level with a total of 7 fixtures.	KFI	All upper levels will only be a bulb replacement.	Addendum #4 - 1/29/2026
25	1/8/2026	For the carpet tile, tile, and resilient wall base, the drawings note "refer to specifications for all finishes," while the specifications indicate to "see finish schedule and finish legend on drawings." We are not seeing the specific finish information referenced in either location. Could you please clarify the required brand and model for the carpet tile, tile, and resilient wall base?	Morris Workshop	Refer to attached revised sheet A600 for finishes.	Addendum #4 - 1/29/2026
26	1/9/2026	Please provide a specification for the Carpet Tile on Alt 3 for the Workroom.	Morris Workshop	Refer to attached revised sheet A600 for finishes.	Addendum #4 - 1/29/2026
27	1/10/2026	Please provide a specification for the wall tile in the restroom.	Morris Workshop	Refer to attached revised sheet A600 for finishes.	Addendum #4 - 1/29/2026
28	1/11/2026	Please confirm if Cove Base is to be 4in or 6in.	Morris Workshop	Resilient base RB-1 is to be 6". Refer to Finish Legend on A600. Tile base to be installed in rooms 106 and 119. Refer to attached revised sheet A600.	Addendum #4 - 1/29/2026
29	1/9/2026	Please Clarify the Alternates. The Alternate numbers don't match between Lighting, Power and Systems drawings	KFI	Alternates have been fixed accordingly. See attached revised sheets.	Addendum #4 - 1/29/2026
30	1/9/2026	Are you calling out RB-1 on all the exterior walls in the storage room # 108	Morris Workshop	No wall base for Storage 108.	Addendum #4 - 1/29/2026
31	1/9/2026	What wall type is used in Room 118 along the block exterior wall.	Morris Workshop	Wall type 3A is to be used.	Addendum #4 - 1/29/2026
32	1/12/2026	Please provide carpet tile and rubber base specification selections. They are missing from the specs and the Finish Schedule on A600.	Morris Workshop	Refer to attached revised sheet A600 for finishes.	Addendum #4 - 1/29/2026
33	1/12/2026	Substitution Request: Point-of-Use Extraction Arms; Would like to quote IAP Air Products extraction arm. See below description: 3'x5' Extraction Arm w/ exhaust fan	KFI	Substitution request will be reviewed at the submittal phase. We will not pre-approve without review, but as long as materials, and fuction are sufficiently similar, we would approve.	Addendum #4 - 1/29/2026
34	1/13/2026	The plans show "Dock Bumpers" on the new loading area on the back of the building. Are there any specs/dimension requirements for these bumpers?	Morris Workshop	Refer to attached specification 111313 Loading Dock Bumpers	Addendum #4 - 1/29/2026
35	1/19/2026	According to print E401 the Data rack is Shown above MECH Room 107. When on-site I noticed nothing in that location but there were data, fiber, and switches above the Break Rm 118. Above Rm 118 looks to be the DMARC location, will a fiber need to be ran from there to the new rack location? What type and count of fiber will be required? Will all existing data need to pulled and terminated at the new rack location? What power requirements will be needed for the new rack location?	KFI	The location of telecommunications equipment was observed on site and shown on plans as observed.	Addendum #4 - 1/29/2026
36	1/20/2026	I would like to know the estimate for the UK North Seedhouse project.	UK CPMD	\$1,600,000	Addendum #4 - 1/29/2026
37	1/20/2026	The drawings show dock bumpers on the new loading dock area, but there are no specs or details (that I can find) in the plans. What are the specs, if any, on the dock bumpers?	Morris Workshop	Refer to attached specification 111313 Loading Dock Bumpers	Addendum #4 - 1/29/2026
38	1/20/2026	During the Precon meeting on 1/16/26 it was discussed that the building execution could not hinder the daily operations of the facility. Sheet A100 infomrs of the site logistics plan for access and laydown areas. Is there any other information provided informing of constraints the GC needs to be aware of during construction to work around?	UK CPMD / CAFÉ	The space cannot be completely vacated during construction. The space is utilized through the summer (June-September). The cold storage walk-in will not be in use from February to August. The new cold storage walk-in must be available after August. The GC is to coordinate with the end users.	Addendum #4 - 1/29/2026
39	1/20/2026	What are the expected dates for the project to start and finish?	UK CPMD	Per the Advertisement, the time for substaatial completion shall be 178 calendar days from date of commencement.	Addendum #4 - 1/29/2026

40	1/20/2026	Please confirm the required height of the walk-in box. Where is it shown on the plans?	Morris Workshop	10'-0" clear. Refer to 3/A310	Addendum #4 - 1/29/2026
41	1/20/2026	The cover page for the bid invitation said to "Furnish and install exterior butted walk-in cooler unit, including 5" insulated wall panels." Arctic standard spec for wall, ceiling, and floor panels is 4" Please confirm required thickness for wall, ceiling, and floor panels.	Morris Workshop	Panel thicknesses are 5" to provide the 24'-0" clear span. Refer to specification 114000 FOODSERVICE EQUIPMENT for performance and delegated design requirements.	Addendum #4 - 1/29/2026
42	1/20/2026	The drawings do not show the structural steel columns to support the ceiling that are provided by Arctic. The center column may fall in line with the rack system that is provided by others. Please confirm.	Morris Workshop	Provide a clear span walk-in cooler structure.	Addendum #4 - 1/29/2026
43	1/20/2026	Would an equal walk-in manufacturer such as Bally or Kolpak be an acceptable substitution?	Morris Workshop	An equal manufacturer is acceptable, as long as all the performance minimums are met. Refer to specification 114000 Section 2.1; subparagraph G	Addendum #4 - 1/29/2026
44	1/22/2026	Cooler Question -We do not see any information (specs) on the PVC roof for the walk-in cooler roof on this project. Is the walk-in cooler company doing the roof for this area or do you need a number for the roof on the walk-in cooler as well? It appears by the drawings and specs that the walk in cooler company will pick that up in their package.	Morris Workshop	The PVC roof is to be part of the walk-in cooler package. Refer to specification 114000 FOOD SERVICE EQUIPMENT; Section 2.1; paragraph H.i.	Addendum #4 - 1/29/2026
45	1/22/2026	Electrical Question -On the one line drawing, it shows to tap onto existing MCC bus bar. This will ruin the UL listing of this piece of equipment and is not allowed. Please advise on a solution.	KFI	Provide per drawings. Contractor is to provide third party UL recertification. Refer to revised electrical plans.	Addendum #4 - 1/29/2026
46	1/22/2026	Bid Question -Can the deadline for Written Questions be extended to 1/28/2026?	UK CPMD	No.	Addendum #4 - 1/29/2026
47	1/22/2026	Bid Question -Is the general building permitting getting handled by UK with the state and local AHJ's?	UK CPMD / Morris Workshop	The design team has applied for the State Building and Plumbing permit. All other permits are the responsibility of the contractor.	Addendum #4 - 1/29/2026
48	1/22/2026	Bid Questions -Is all 3rd party inspections cost being handled by UK?	UK CPMD	Yes.	Addendum #4 - 1/29/2026
49	1/22/2026	Bid Questions -Will Temporary Power and Water for General Contractor Site Trailer and use be provided by UK?	UK CPMD	A limited amount of water is available on-site for construction purposes through a standard spigot. Additionally, a limited amount of owner electric, enough to power standard construction power tools, is available. However, power for a temporary trailer will need to be set up and provided for by the contractor.	Addendum #4 - 1/29/2026
50	1/22/2026	For the areas that have wiremold are we to replace the existing wiremold with conduit or new wiremold? Or are we utilizing the existing wiremold?	KFI	Existing devices with existing wiremold is to remain, unless otherwise noted and to be painted to match new color. Refer to revised electrical plans.	Addendum #4 - 1/29/2026
51	1/22/2026	I would like clarification on the countertop material from the architect. The plans on 3/A611 note a phenolic countertop while the specifications note a resin (i.e., Corian) countertop. Which material is needed for the countertops?	Morris Workshop	The countertops are to be Solid Surfacing per specification 123600 COUNTERTOPS and Interior Elevations 3/A610 & 4/A610.	Addendum #4 - 1/29/2026
52	1/22/2026	Would the architect please provide an elevation of the casework for Work Room -114?	Morris Workshop	Refer to attached revised sheet A400 and added sheet A402	Addendum #4 - 1/29/2026
53	1/22/2026	Detail P/S301 shows a Cont. Galv angle (L6x4x5/16) with studs, please clarify the angle is on (1) side only and if the angle should include the steps along with the landing?	B+K	Delete edge angle along outside edge of stair (as shown in detail P/S301). All Guardrails and Handrails are to be cored / embedded.	Addendum #4 - 1/29/2026
54	1/23/2026	The 2 air handling units are 480V and the panel it is supposed to be fed from is 120/208V, we can't come directly from the panel to the units due to the voltage increase. There are no step-up transformers shown on the plans for connecting power to them. Do you want us to include the step-up transformers in our pricing?	KFI	Unit voltages will be changed to 208V. Refer to revised Mechanical Plans.	Addendum #4 - 1/29/2026
55	1/29/2023	Is this a "Prevailing Wage" job?	UK Procurement	No, it is not.	Addendum #4 - 1/29/2026
56	1/21/2026	On drawing A-320 detail 4 it calls for a 2A wall but says 6" metal studs should this be wall type B1?	Morris Workshop	The walls at Vestibule 108A are to be type B1.	Addendum #4 - 1/29/2026
57	1/21/2026	On drawing A-400 detail 3 we discussed adding a stud chase wall for the plumbing against the block wall it doesn't give a wall type. What wall type is to be used?	Morris Workshop	This is to be wall type 3A.	Addendum #4 - 1/29/2026



FLOOR PLAN GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
2. EXTERIOR DIMENSIONS ARE SHOWN TO FACE OF FINISH UNLESS OTHERWISE INDICATED.
3. INTERIOR DIMENSIONS SHOWN ARE TO FACE OF MASONRY OR FACE OF STUD, UNLESS OTHERWISE INDICATED.
4. REFER TO ENLARGED PLANS A470 AND FINISH PLAN A600 SERIES FOR WALL FINISHES, INCLUDING TILES, PAINTS, TRIM, SPECIALTY WOOD PANELING, ETC.
5. USE CEMENT BACKER BOARD AT ALL CERAMIC AND TILES, AND TILE LOCATIONS AND ALL WET LOCATIONS PER IBC SECTION 1210.2.
6. CONTRACT TO INCLUDE ALL NECESSARY BLOCKING FOR WALL, FLOOR, AND CEILING-MOUNTED ITEMS, INCLUDING THOSE TO BE PROVIDED BY THE OWNER. COORDINATE WITH OWNER FOR ADDITIONAL BLOCKING REQUIREMENTS.

CLIENT: UNIVERSITY OF KENTUCKY

ARCHITECT: **MORRIS**
workshop

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SUBMITTAL DATE
PHASE 1 3/4/2025
PHASE 2 7/9/2025
PHASE 3 10/14/2025

ADD 4
1 WORK STATION, OFCI
2 NOT USED
3 STORAGE RACKS, OFCI
4 FILING CABINETS, OFCI
5 PLASTIC LAMINATE COUNTERTOP
6 CASEWORK
7 1 COMPARTMENT SINK, REFER TO PLUMBING
8 CORN SEED COUNTER (EXISTING OFCI)
9 SOY BEAN COUNTER (EXISTING OFCI)
10 LAMINER FLOW HOOD (EXISTING OFCI)
11 EYEWASH / SHOWER STATION, REFER TO PLUMBING
12 4X12 WORK TABLES (EXISTING OFCI)
13 OVERHEAD DUST/FUME EXTRACTING SNORKEL, REFER TO MEP
14 SEED STORAGE FILLING DRAWERS (EXISTING OFCI)
15 LOADING DOCK SAFETY RAILING
16 RECEIVING STATION - DATA LABEL
17 TACK BOARD / MARKER BOARD COMBO
18 4 TOP TABLE, OFCI
19 LOADING DOCK BUMPERS
20 REFRIGERATOR, OFCI
21 COPIER, OFCI ADD 4
22 EXTERIOR BUTTED WALK-IN COOLER UNIT
23 COLD STORAGE - RACKS
24 CONCRETE STAIR, REFER TO STRUCTURAL
25 OVERHEAD CABINETS 1'-0" DEEP
26 REFER TO MEP
27 MANUAL OPERATED ROLLER SHADES
28 6' CONCRETE PAD FOR MECHANICAL EQUIPMENT
29 WATER FOUNTAIN / BOTTLE FILLER
30 BOLLARD, TYP.

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30 BOLLARD, TYP.

FLOOR PLAN LEGEND

- WALL TYPE TAG. REFER TO WALL TYPE SHEET A001
- DOOR TAG. REFER TO DOOR SCHEDULE AND DETAILS A500
- FEI SEMI RECESSED FIRE EXTINGUISHER AND F.E. CABINET
- FE FIRE EXTINGUISHER, BRACKET MOUNTED
- CODED NOTE. REFER TO CODED NOTE LEGEND THIS SHEET

UK SEEDHOUSE
SPINDLETOP WAY, LEXINGTON, KY 40511
FIRST FLOOR

3/7/17
BOBBY M MORRIS
REG. NO. 6944
COMMONWEALTH OF
KENTUCKY
ARCHITECT

No. Date
Project Number 2501
Date NOVEMBER 18, 2025
Drawn By FA
Checked By BM

1/22/2026 5:15:26 PM

N
A110



CLIENT: UNIVERSITY OF KENTUCKY

ARCHITECT: **morris workshop**MORRIS WORKSHOP ARCHITECTS, PLLC
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859.271.3246SUBMITTAL DATE
PHASE 1 3/4/2025
PHASE 2 7/9/2025
PHASE 3 10/14/2025

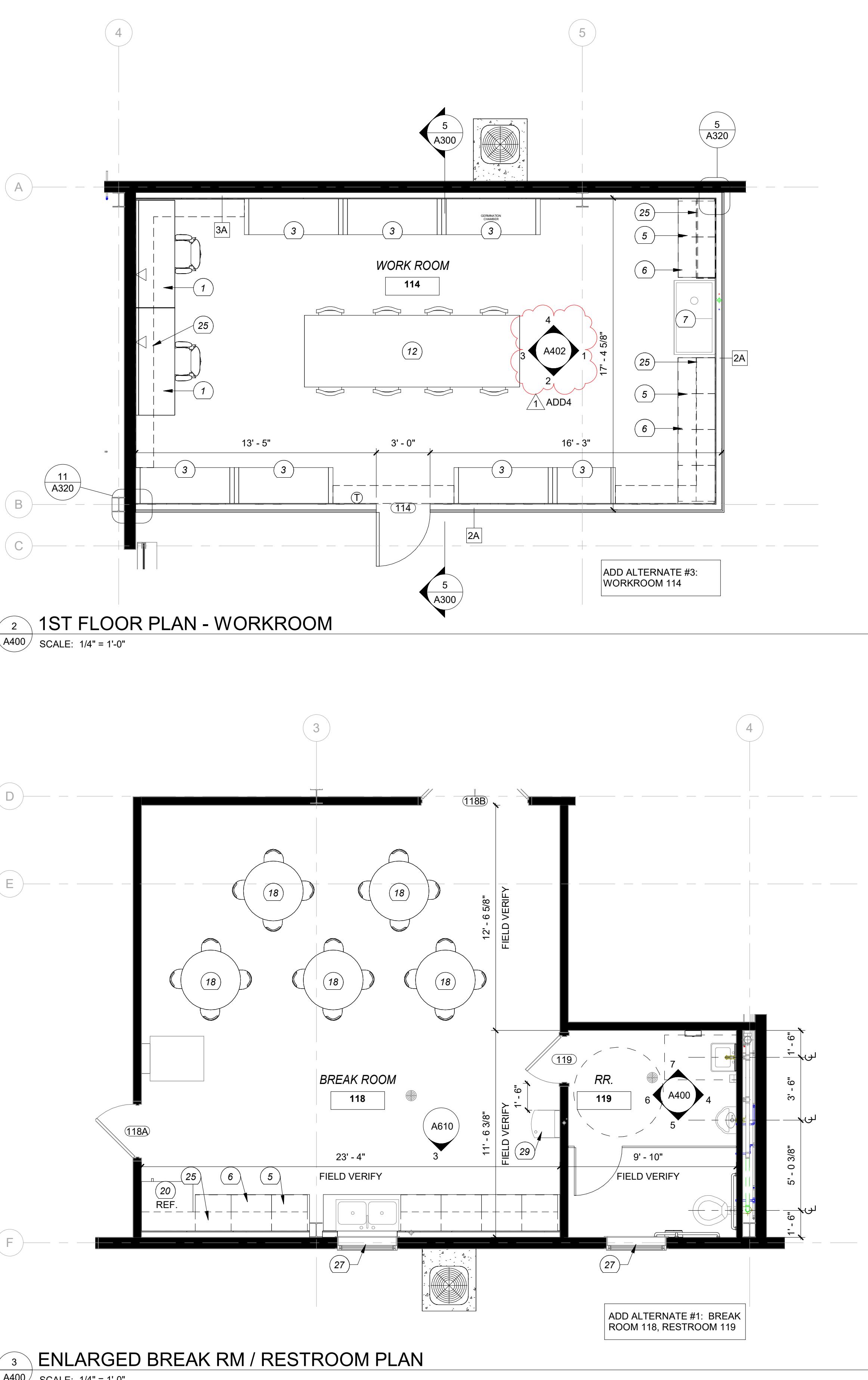
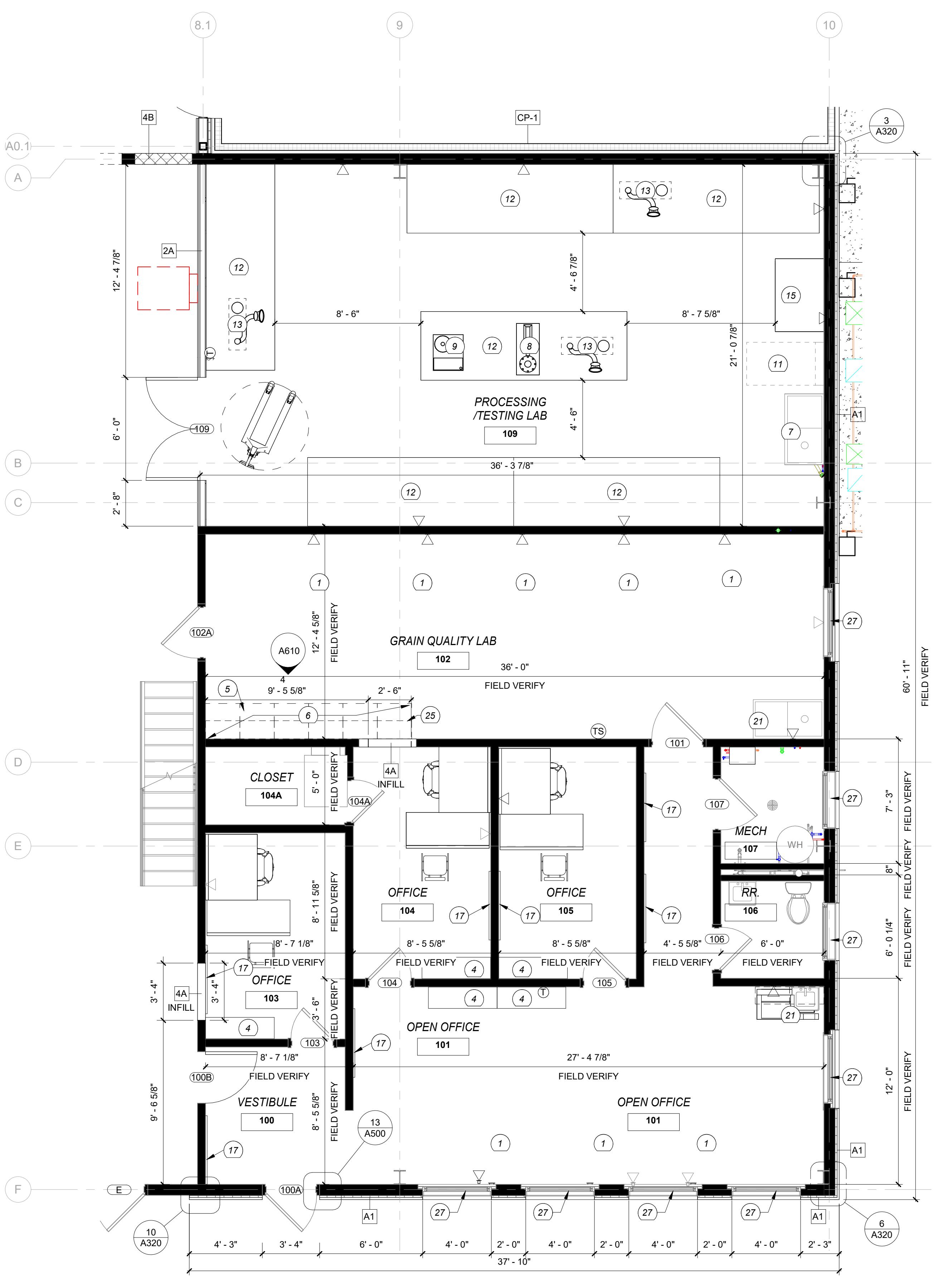
UNIVERSITY OF KENTUCKY
SPINDLETOP WAY, LEXINGTON, KY 40511
ENLARGED FLOOR PLANS

FLOOR PLAN GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
- EXTERIOR DIMENSIONS ARE SHOWN TO FACE OF FINISH UNLESS OTHERWISE INDICATED.
- INTERIOR DIMENSIONS SHOWN ARE TO FACE OF MASONRY OR FACE OF STUD, UNLESS OTHERWISE INDICATED.
- REFER TO ENLARGED PLANS (A470) AND FINISH PLAN A600 SERIES FOR WALL FINISHES, INCLUDING TILES, PAINTS, TRIMS, SPECIALTY WOOD PANELING, ETC.
- STRUCTURAL BACKER BOARD AT ALL CERAMIC AND PORCELAIN TILE LOCATIONS AND ALL WET LOCATIONS PER IBC SECTION 1210.2.
- CONTRACT TO INCLUDE ALL NECESSARY BLOCKING FOR WALL, FLOOR, AND CEILING MOUNTED ITEMS, INCLUDING THOSE TO BE PROVIDED BY THE OWNER. COORDINATE WITH OWNER FOR ADDITIONAL BLOCKING REQUIREMENTS.

FLOOR PLAN CODED NOTES

1 WORK STATION, OFCI
2 NOT USED
3 STORAGE RACKS, OFOI
4 FILING CABINETS, OFOI
5 PLASTIC LAMINATE COUNTERTOP
6 CASEWORK
7 1 COMPARTMENT SINK, REFER TO PLUMBING
8 CORN SEED COUNTER (EXISTING OFOI)
9 SOY BEAN COUNTER (EXISTING OFOI)
10 LAMINER FLOW HOOD (EXISTING OFCI)
11 EYEWASH / SHOWER STATION, REFER TO PLUMBING
12 4X12 WORK TABLES (EXISTING OFOI)
13 OVERHEAD DUST/FUME EXTRACTING SNORKEL, REFER TO MEP
14 SEED STORAGE FILLING DRAWERS (EXISTING OFOI)
15 LOADING DOCK SAFETY RAILING
16 RECEIVING STATION - DATA LABEL
17 TACK BOARD / MARKER BOARD COMBO
18 4 TOP TABLE, OFOI
19 LOADING DOCK BUMPERS
20 REFRIGERATOR, OFOI
21 COPIER, OFOI
22 EXTERIOR BUTTED WALK-IN COOLER UNIT
23 COLD STORAGE - RACKS
24 CONCRETE STAIR REFER TO STRUCTURAL
25 OVERHEAD CABINETS 1'-0" DEEP
26 REFER TO MEP
27 MANUAL OPERATED ROLLER SHADES
28 6" CONCRETE PAD FOR MECHANICAL EQUIPMENT
29 WATER FOUNTAIN / BOTTLE FILLER
30 BOLLARD, TYP.



ENLARGED BREAK RM / RESTROOM PLAN

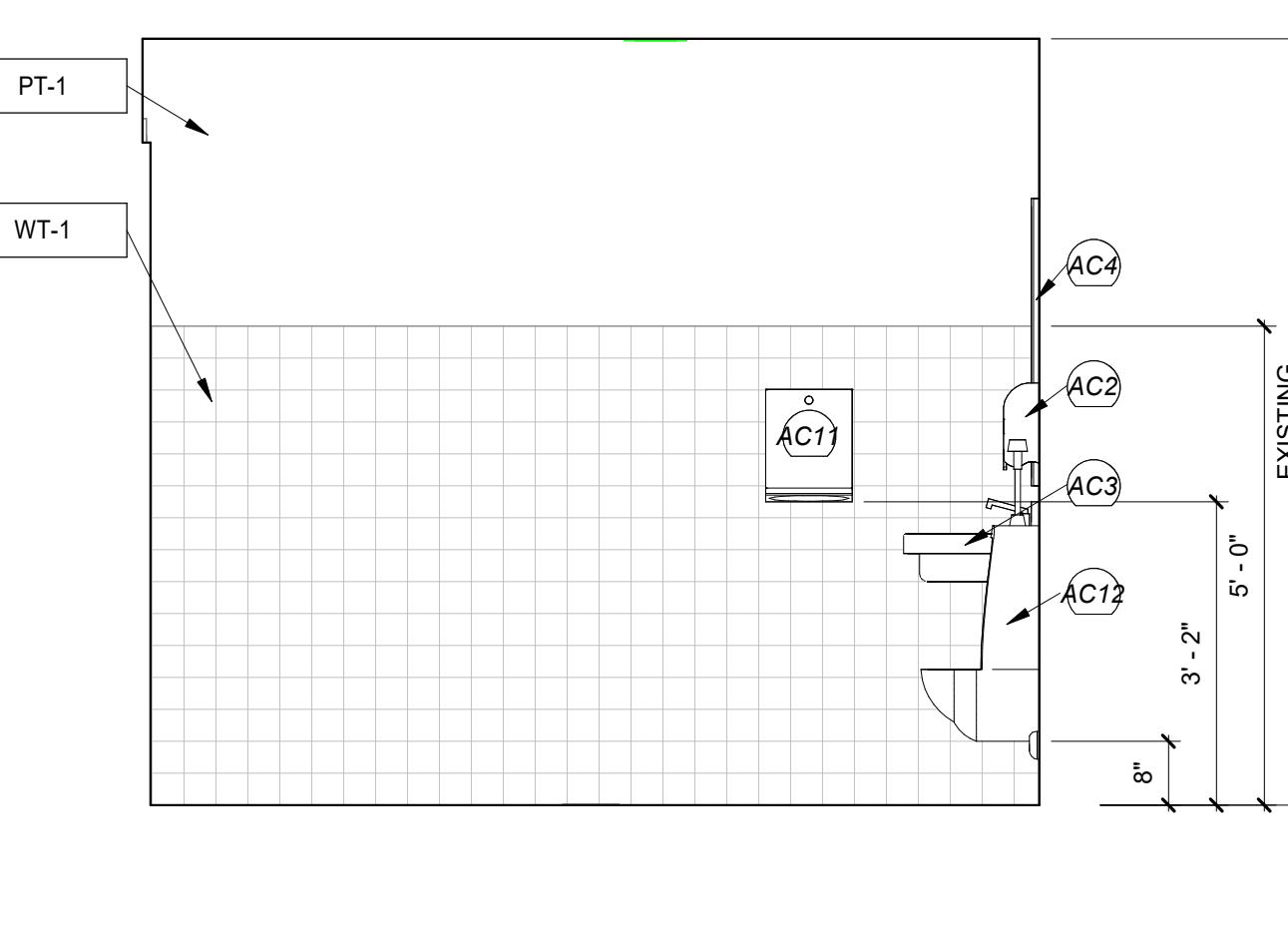
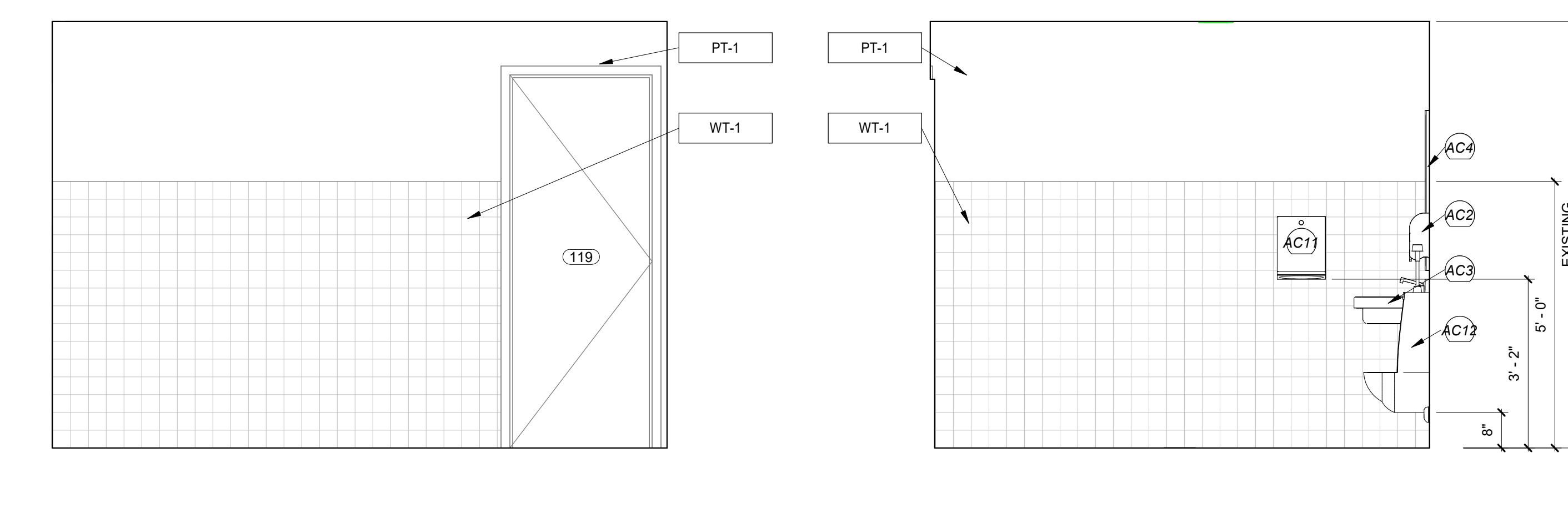
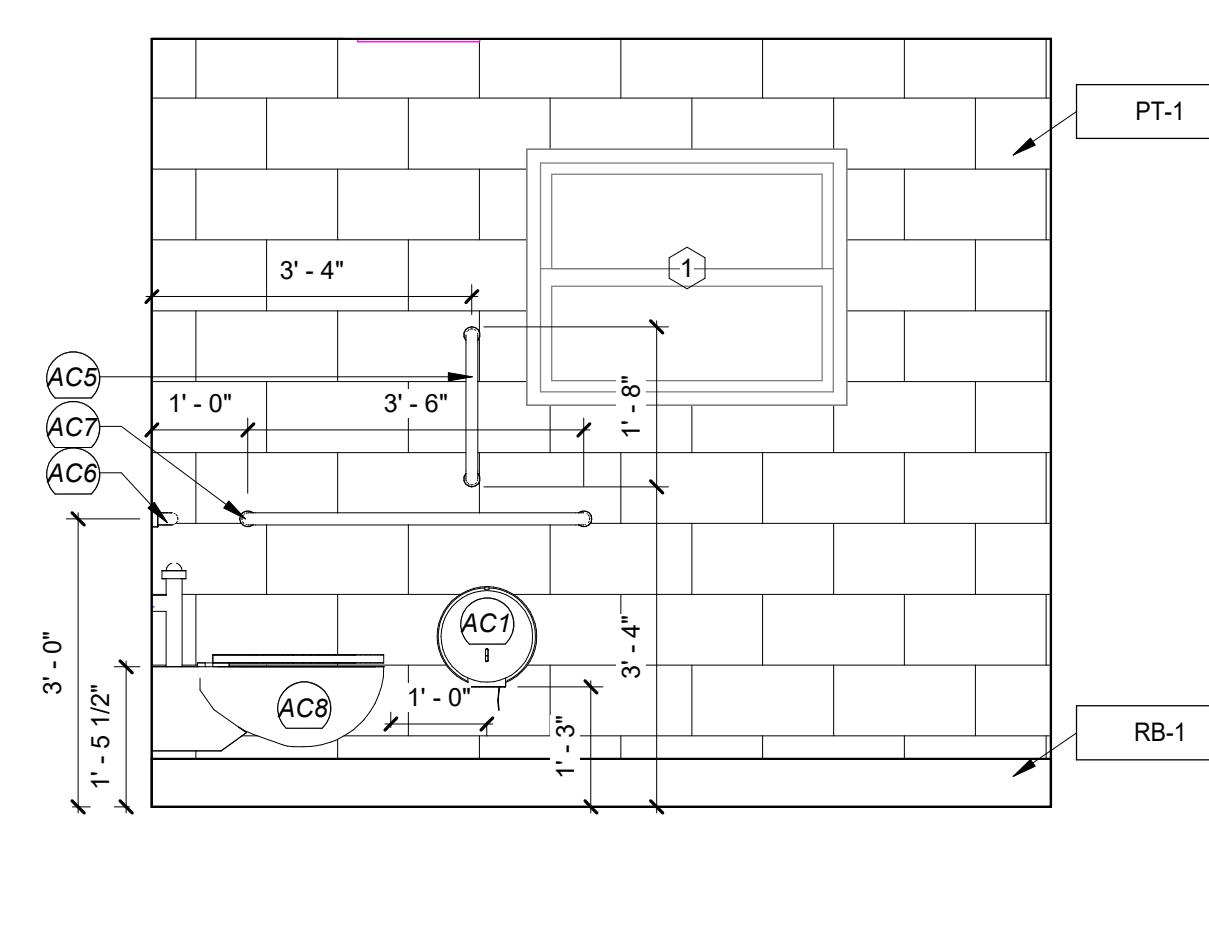
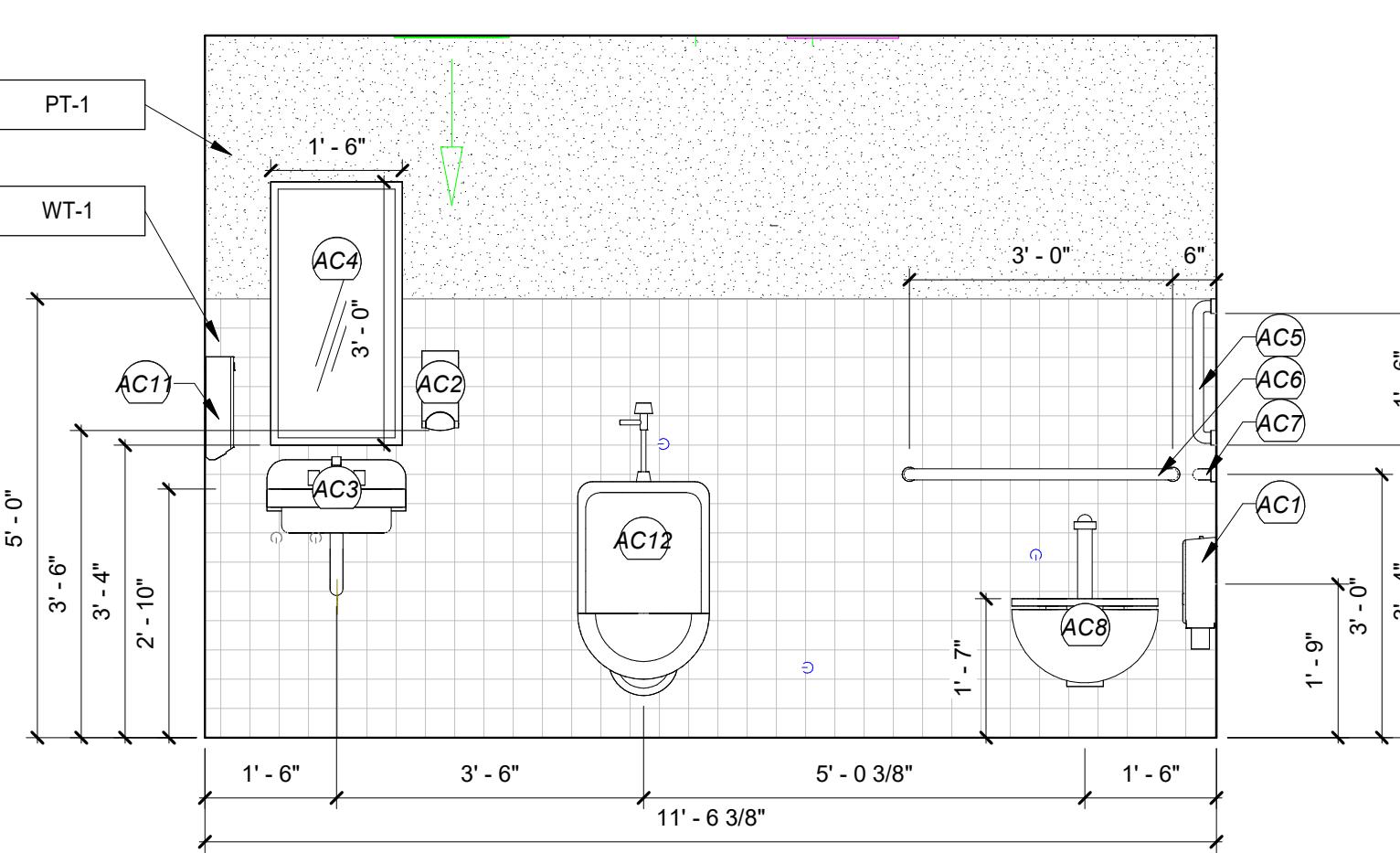
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FLOOR PLAN LEGEND

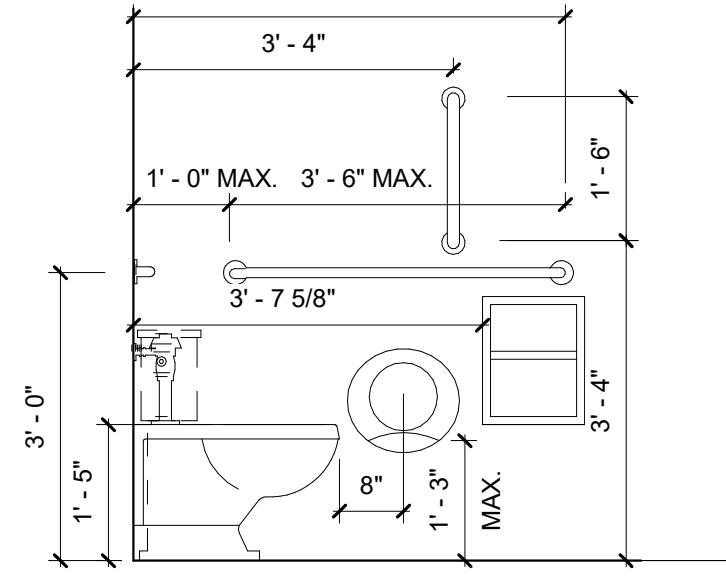
- WALL TYPE TAG. REFER TO WALL TYPE SHEET A001
- DOOR TAG. REFER TO DOOR SCHEDULE AND DETAILS A500
- FEC SEMI RECESSED FIRE EXTINGUISHER AND F.E. CABINET
- FE FIRE EXTINGUISHER, BRACKET MOUNTED
- CODED NOTE. REFER TO CODED NOTE LEGEND THIS SHEET

RESTROOM ACCESSORY SCHEDULE

CODE	DESCRIPTION
AC1	TOILET PAPER HOLDER
AC2	SOAP DISPENSER
AC3	ADA COMPLIANT LAVATORY
AC4	MIRROR - SIZE AS SHOWN
AC5	18" GRAB BAR
AC6	36" GRAB BAR
AC7	42" GRAB BAR
AC8	WALL MOUNTED TOILET
AC9	SANITARY NAPKIN DISPENSER
AC10	SANITARY NAPKIN DISPOSER
AC11	PAPER TOWEL DISPENSER
AC12	ADA URINAL



GC TO PROVIDE AND INSTALL BLOCKING FOR ALL ACCESSORIES



No.	Date
1	1/29/2026

Project Number 2501

Date NOVEMBER 18, 2025

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Checked By BM

FA
BM

N

A400

1/2/2026 5:15:28 PM



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SUBMITTAL	DATE
PHASE 1	3/4/2025
PHASE 2	7/9/2025
PHASE 3	10/14/2025

UK SEEDHOUSE SPINDELTOP WAY, LEXINGTON, KY 40511 VESTIBULE / DOCK PLANS / DETAILS



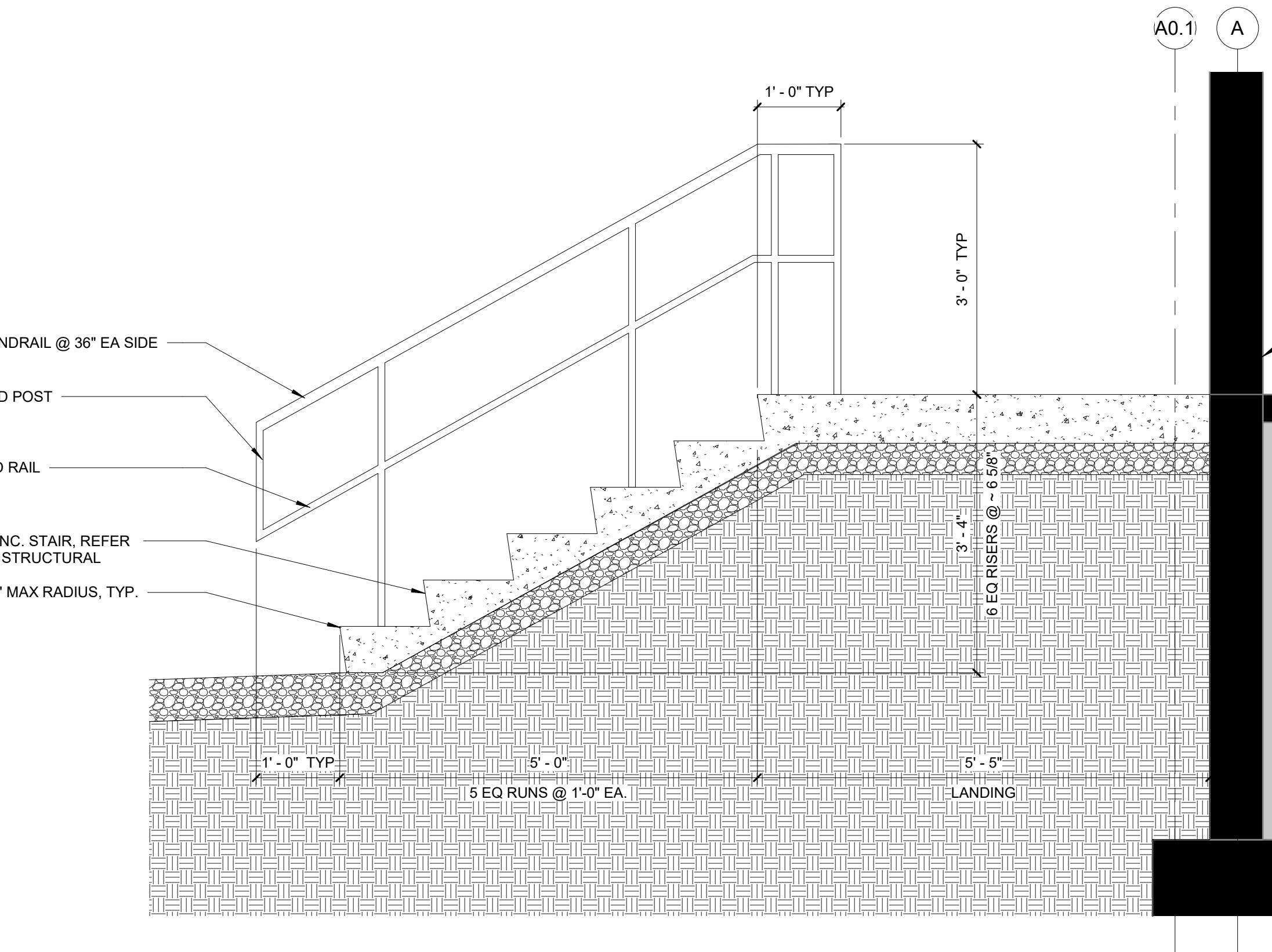
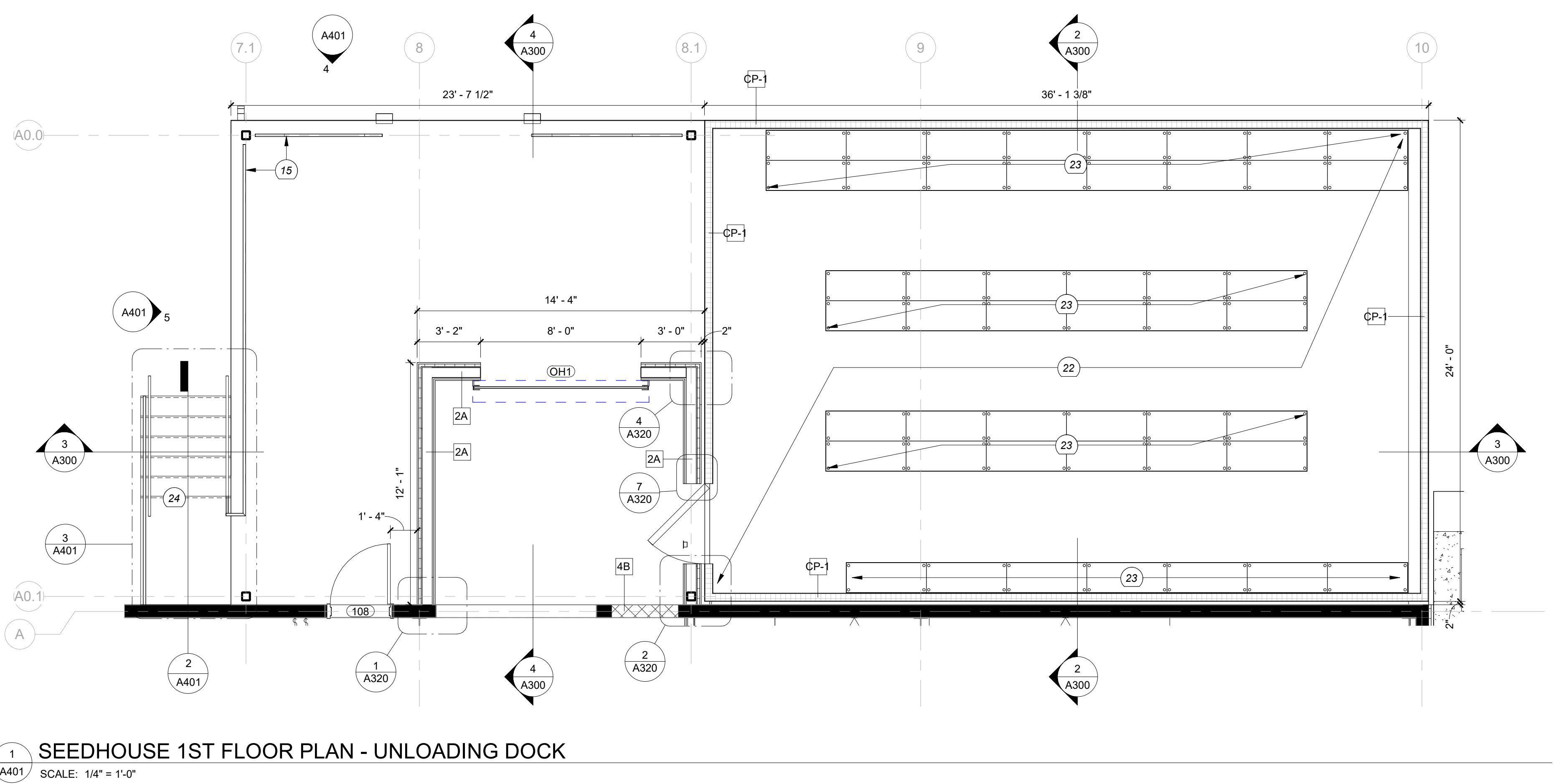
No.	Date
1	1/29/2026

Project Number 2501
Date NOVEMBER 18, 2025

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FLOOR PLAN GENERAL NOTES

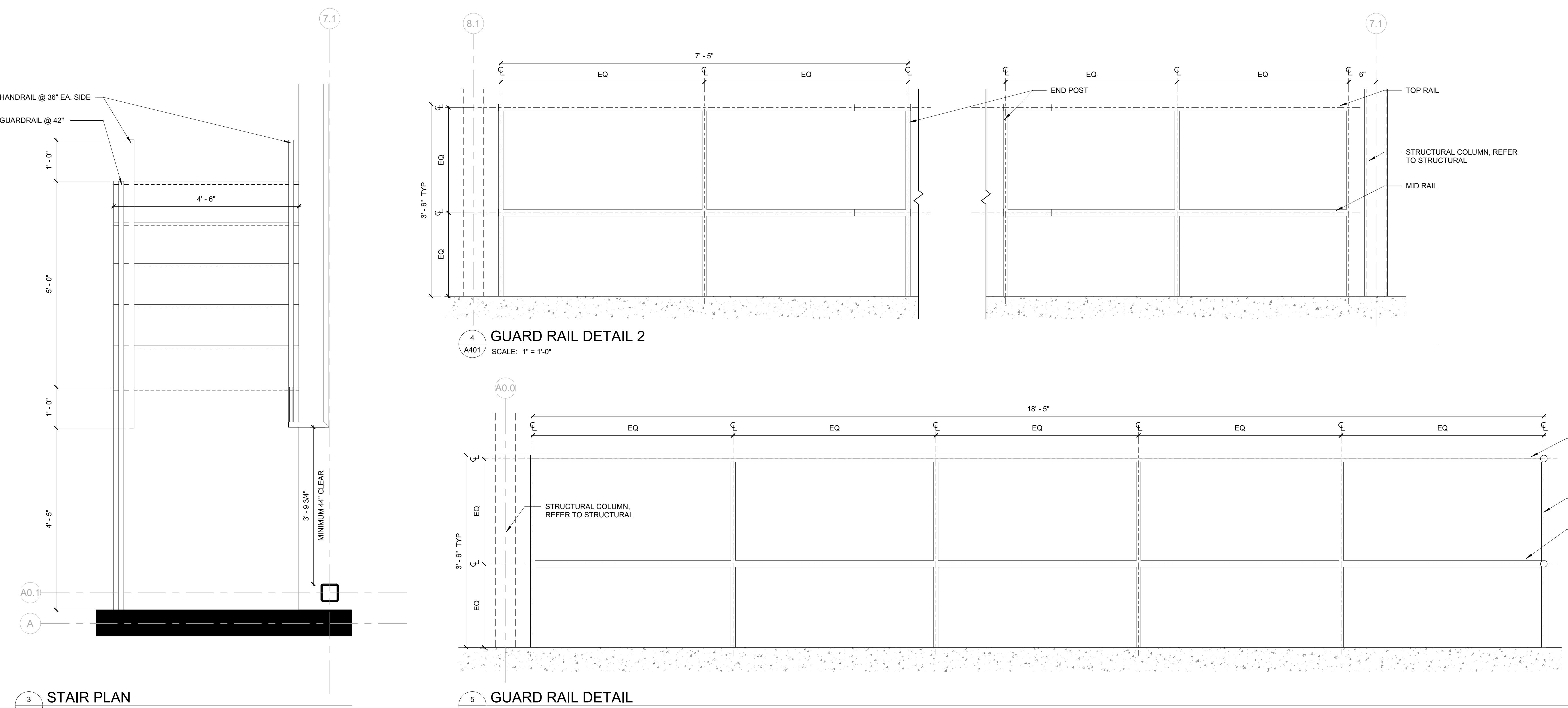
- CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.
- EXTERIOR DIMENSIONS ARE SHOWN TO FACE OF FINISH UNLESS OTHERWISE INDICATED.
- INTERIOR DIMENSIONS SHOWN ARE TO FACE OF MASONRY OR FACE OF STUD, UNLESS OTHERWISE INDICATED.
- REFER TO ENLARGED PLANS (A470) AND FINISH PLAN A600 SERIES FOR WALL FINISHES, INCLUDING TILES, PAINTS, TRIM, SPECIALLY WOOD PANELING, ETC.
- USE CEMENTITIOUS BACKER BOARD AT ALL CERAMIC AND PORCELAIN TILE LOCATIONS AND ALL WET LOCATIONS PER IBC SECTION 1210.2.
- CONTRACT TO INCLUDE ALL NECESSARY BLOCKING FOR WALL, FLOOR, AND CEILING MOUNTED ITEMS, INCLUDING THOSE TO BE PROVIDED BY THE OWNER. COORDINATE WITH OWNER FOR ADDITIONAL BLOCKING REQUIREMENTS.

FLOOR PLAN LEGEND

- WALL TYPE TAG. REFER TO WALL TYPE SHEET A001
- DOOR TAG. REFER TO DOOR SCHEDULE AND DETAILS A500
- [FEC] SEMI RECESSED FIRE EXTINGUISHER AND F.E. CABINET
- [FIRE] FIRE EXTINGUISHER, BRACKET MOUNTED
- CODED NOTE. REFER TO CODED NOTE LEGEND THIS SHEET

FLOOR PLAN CODED NOTES

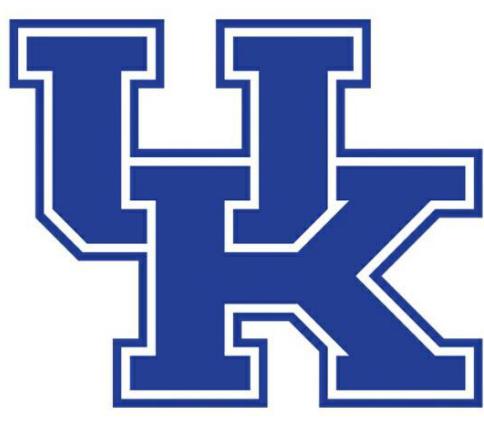
- 1 WORK STATION, OFCI
- 2 NOT USED
- 3 STORAGE RACKS, OFCI
- 4 FILING CABINETS, OFCI
- 5 PLASTIC LAMINATE COUNTERTOP
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- 27 MANUAL OPERATED ROLLER SHADES
- 28 6" CONCRETE PAD FOR MECHANICAL EQUIPMENT
- 29 WATER FOUNTAIN / BOTTLE FILLER
- 30 BOLLARD, TYP.



N

A401

ADD 4

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SUBMITTAL	DATE
PHASE 1	3/4/2025
PHASE 2	7/9/2025
PHASE 3	10/14/2025

UK SEEDHOUSE

SPINDLETOP WAY, LEXINGTON, KY 40511

INTERIOR ELEVATION

3/7/17

BOBBY M MORRIS
REG. NO. 6944
COMMONWEALTH OF
KENTUCKY
ARCHITECT

No.	Date
1	1/29/2026

Project Number 2501

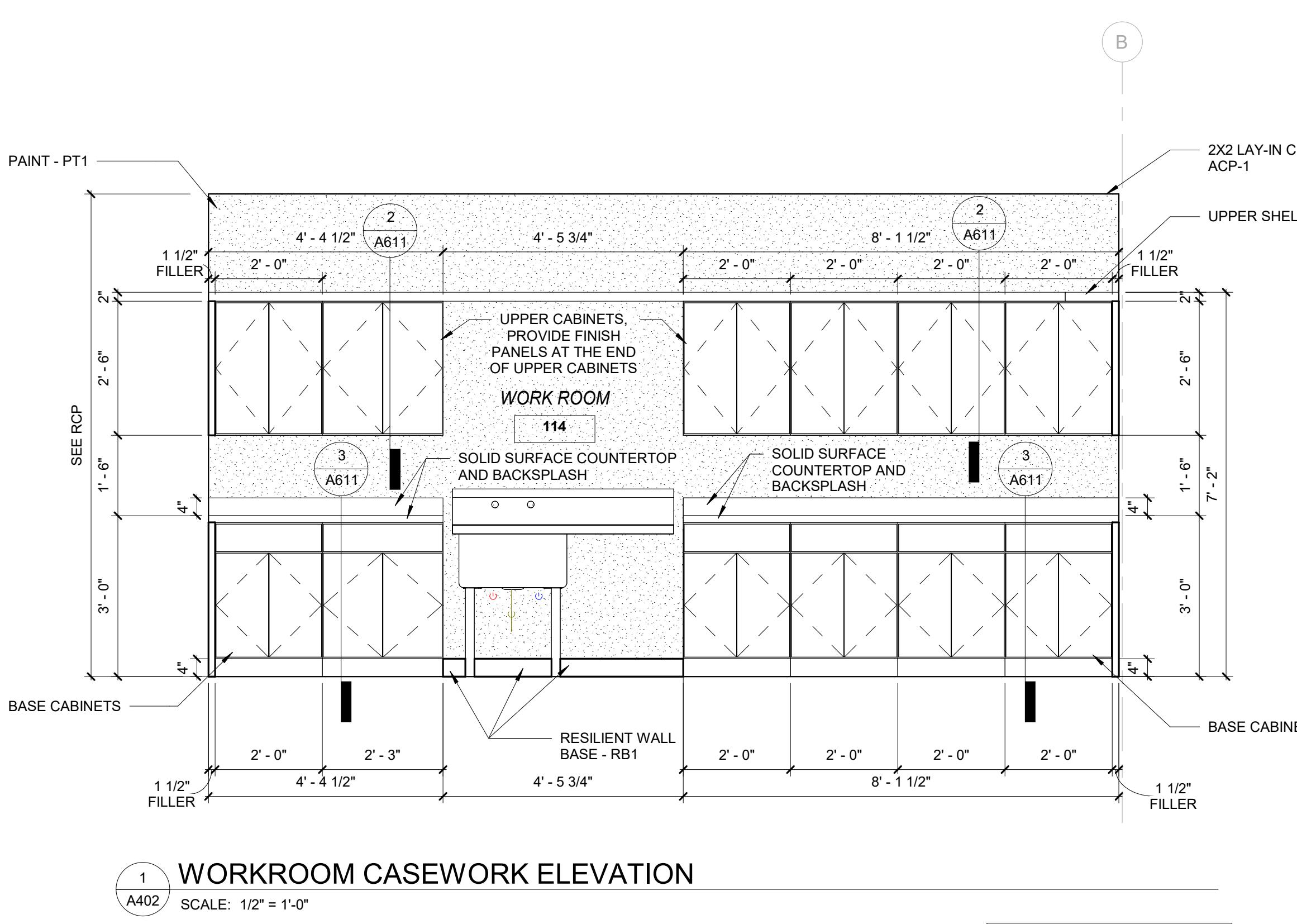
Date NOVEMBER 18, 2025

Drawn By FA

Checked By BM

A402 ADD 4

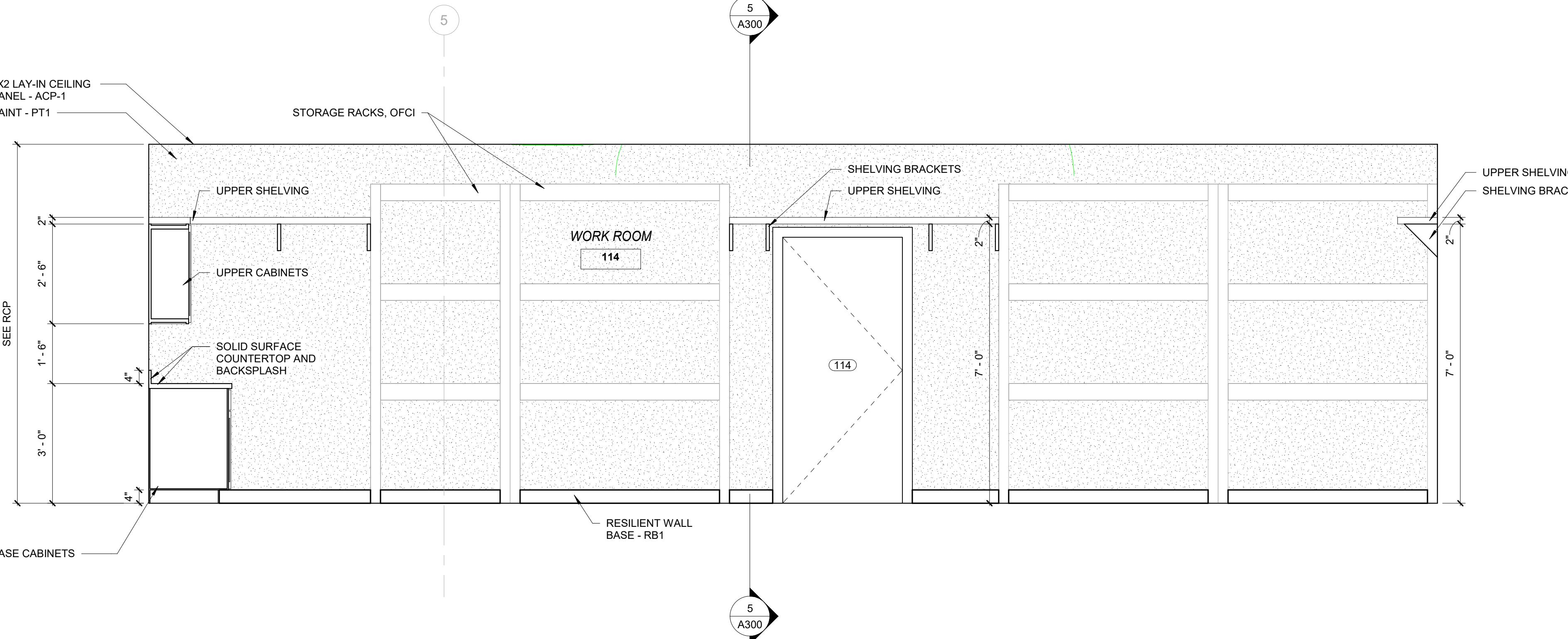
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1 WORKROOM CASEWORK ELEVATION

A402

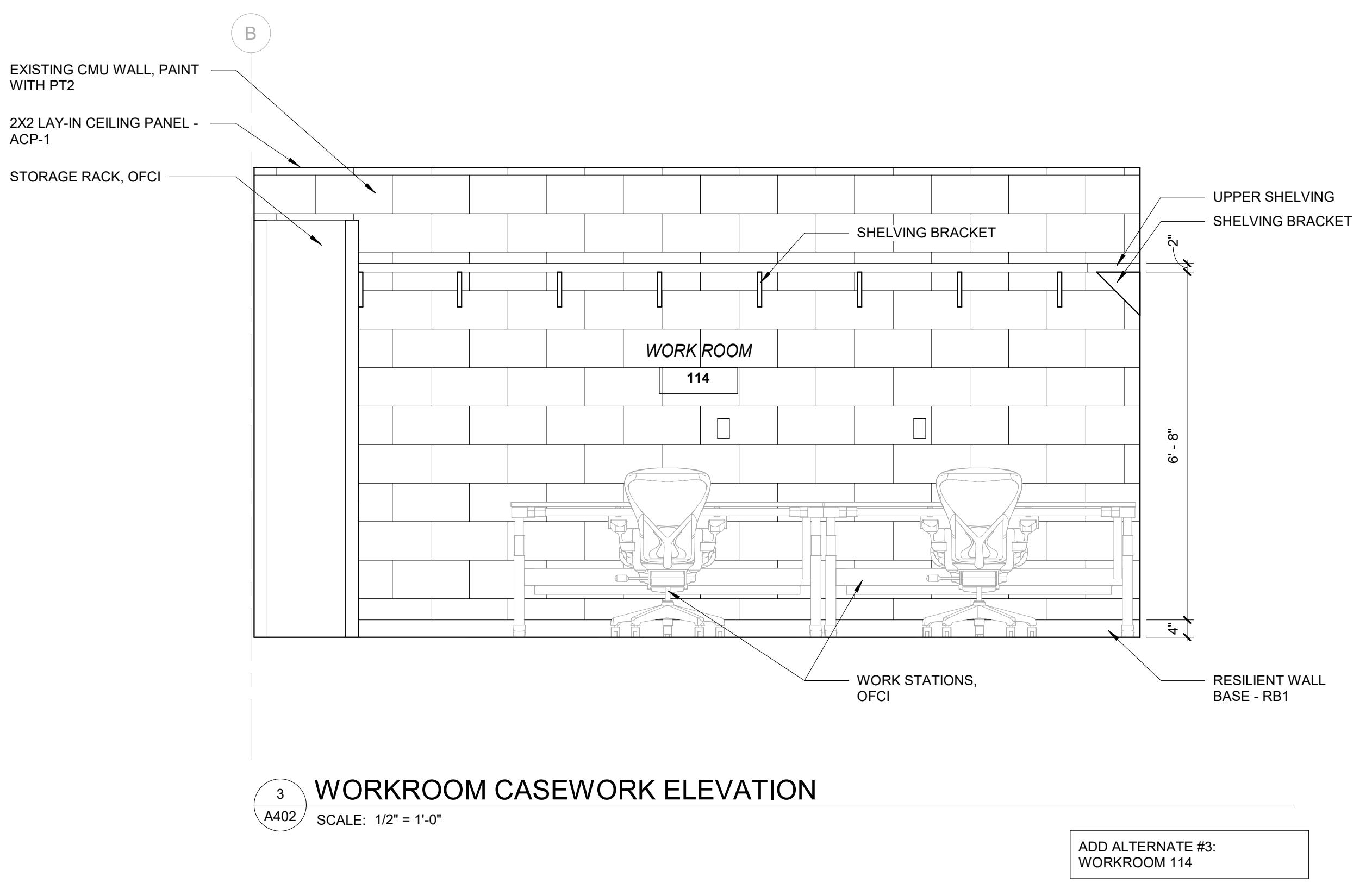
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ADD ALTERNATE #3:
WORKROOM 114

2 WORKROOM CASEWORK ELEVATION

A402

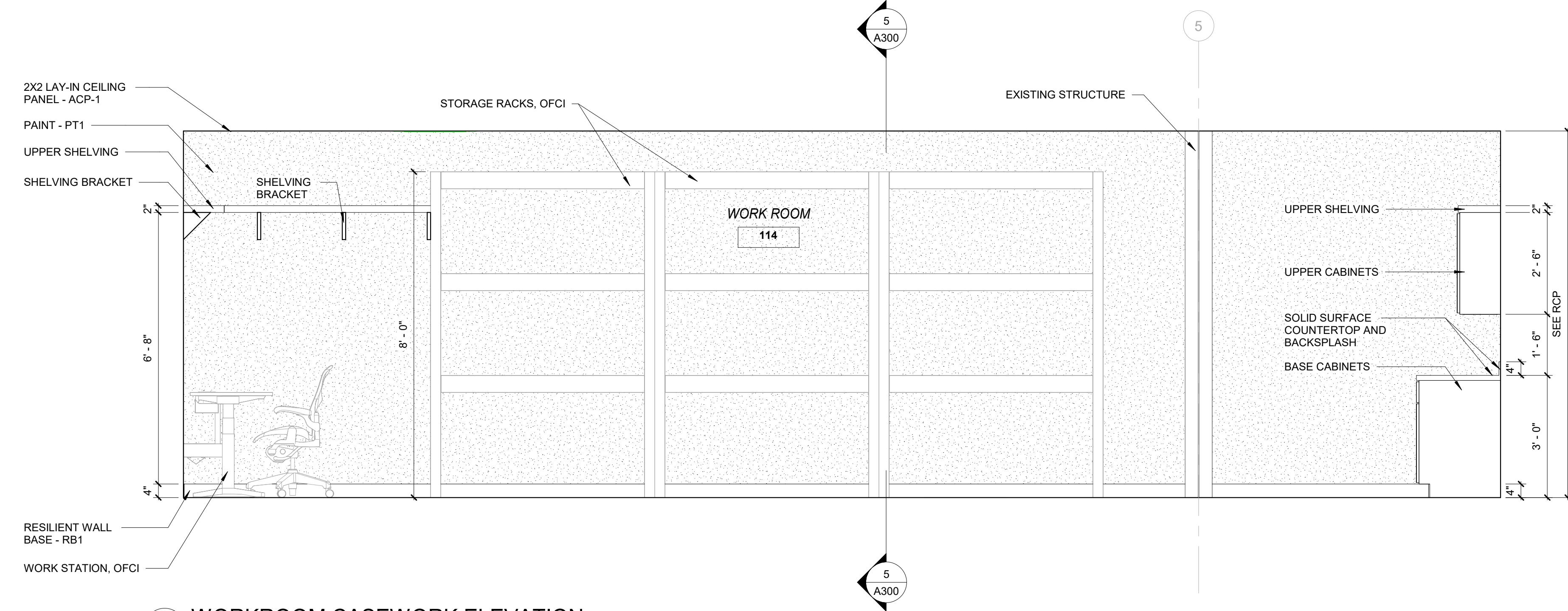
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ADD ALTERNATE #3:
WORKROOM 114

3 WORKROOM CASEWORK ELEVATION

A402

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

ADD ALTERNATE #3:
WORKROOM 114

4 WORKROOM CASEWORK ELEVATION

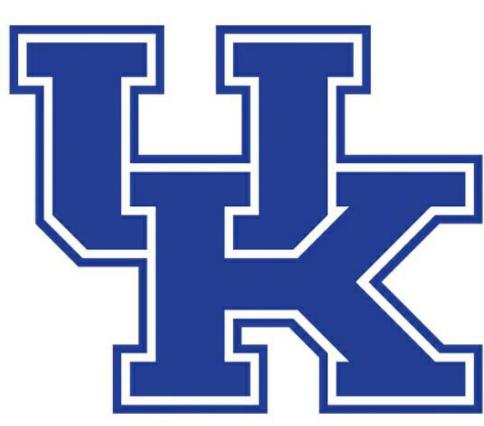
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SCALE: 1/2" = 1'-0"

ADD ALTERNATE #3:
WORKROOM 114

A402 ADD 4

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SUBMITTAL	DATE
PHASE 1	3/4/2025
PHASE 2	7/9/2025
PHASE 3	10/14/2025

FINISH TAG LEGEND

1 SEEDHOUSE - 1ST FLOOR FINISH PLAN

A600 SCALE: 1/8" = 1'-0"

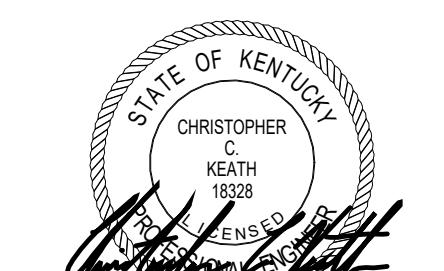
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SEEDHOUSE - 1ST FLOOR FINISH PLAN

A600

1

SEEDHOUSE - 1

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HEADHOUSE, AND SEEDHOUSE
UNIVERSITY OF KENTUCKY
SPINDLETOP WAY, LEXINGTON, KY 40511
MECHANICAL SCHEDULES

No.	Date
1	01/29/26
Project Number	2501
Date	NOVEMBER 18, 2025
Drawn By	MET
Checked By	CCK

M800

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ROOFTOP UNIT SCHEDULE																							
DES. #	MFG	MODEL	PRODUCT	LOCATION	AREA	SEED	EE	SUPPLY FAN		SENSIBLE COOLING		COOLING		GAS HEAT	FILTER	ELECTRICAL							
								Equipment	Fan Type	Total Cooling Capacity (BTU/H)	ESP (IN-WG)	APD (IN-WG)	Face Vel (IN/H)	Rows	Comp. Type	Input Power (BTU/H)	APD (IN-WG)	MERV	PH	Volts	mA	MoCP	
AHU 01	DAIKIN APPLIED	DPS08B	REBEL R32	SEEDHOUSE	LAB	11.2	1800	SWI AF	0.75	70842	48854	4	0.25	298	Inv. Scroll	120000	0.04	MERV 8	208	3	34	50	123.4,5,6,7,8,9,10,11
AHU 02	DAIKIN APPLIED	DPS08B	REBEL R32	SEEDHOUSE	OFFICES	13.8	1800	SWI AF	0.80	38100	35765	4	0.25	333	Inv. Scroll	81000	0.08	MERV 8	208	3	44	45	123.4,6,7,9,10,11

REMARKS:
1. CONTRACTOR SHALL COMPLETE FORM AQ-FORM-101 AND SUBMIT TO UK WHEN EQUIPMENT IS PURCHASED.
2. DISCONNECT SWITCH BY ELECTRICAL.
3. ACCESS PORT TO BE PROVIDED BY CONTRACTOR.
4. CABINETS TO BE DOUBLE WALL WITH FOAM INJECTED INSULATION.

5. COMPRESSORS TO HAVE, AT MINIMUM, THE LEAD COMPRESSOR AS A VARIABLE SPEED SCROLL TYPE. DIGITAL SCROLL NOT ACCEPTABLE.
6. FANS TO BE DIRECT DRIVE, ECM OR VFD-DRIVEN, SWI IF TYPE. BELT DRIVE FANS NOT ACCEPTABLE.
7. CONTRACTOR TO PROVIDE EXTRACTOR DUCTS, NOT ACCEPTABLE.
8. FURNISH UNIT WITH MODULATING HOT GAS REHEAT.
9. FURNISH WITH ECONOMIZER BARREL.
10. FURNISH WITH PRESSURE SENSOR REMOTE SENSING, SUITABLE FOR DUSTY ENVIRONMENT.
11. FURNISH WITH NON-DDC CONTROLS NECESSARY FOR MODULATING OUTSIDE AIR CONTROL TO SERVE AS MAKE-UP FOR EXTRATION EXHAUST.

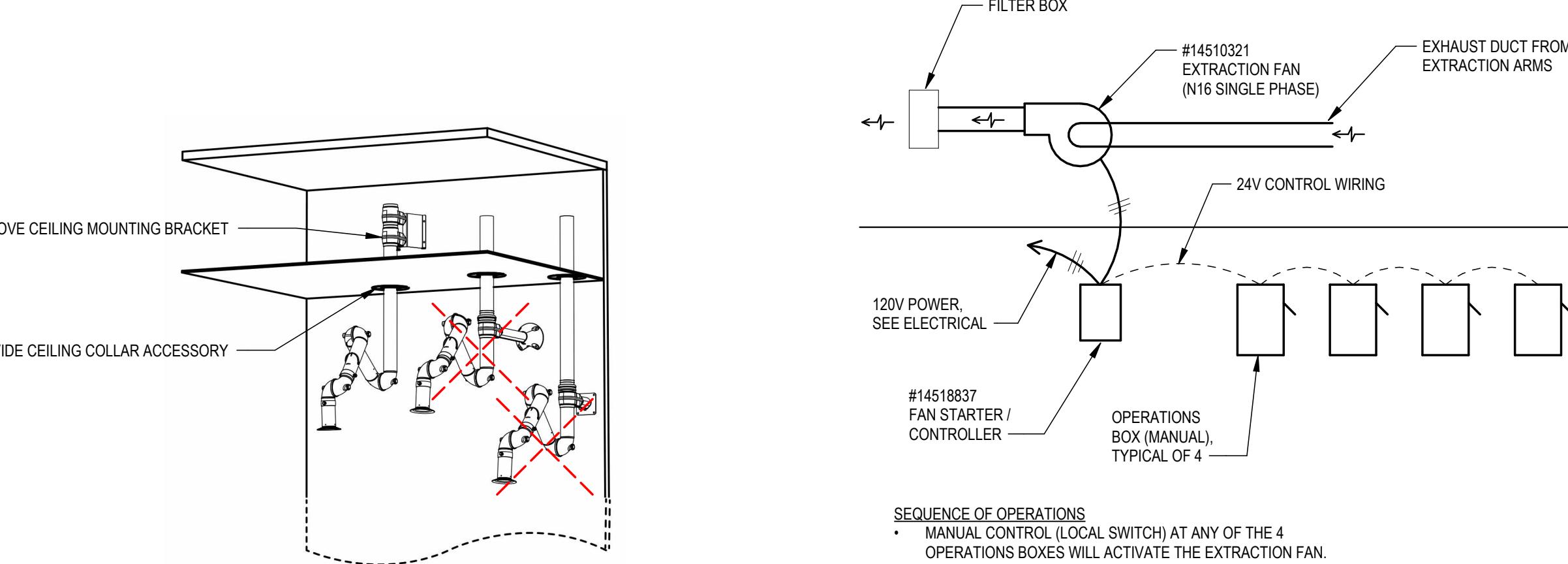
FAN SCHEDULE															
EQUIP. NO.	LOCATION	MANUFACTURER	MODEL NO.	MECHANICAL				ELECTRICAL				NOTES			
				CFM	ESP	RPM	TYPE	DRIVE	WEIGHT	BHP	VOLTAGE	PHASE	FREQUENCY	NOTES	
EF-1	SEEDHOUSE RESTROOM	GREENHECK	SP-A70	50	0.25	850	CEILING	DIRECT	12	0.01	115	1	60		
EF-1	SEEDHOUSE RESTROOM	GREENHECK	SP-A70	50	0.25	850	CEILING	DIRECT	12	0.01	115	1	60		
EF-2	SEEDHOUSE RESTROOM	GREENHECK	SP-A125	100	0.25	1100	CEILING	DIRECT	17	0.01	115	1	60		
EF-3	SEEDHOUSE HOOD	GREENHECK	SQ-98-VG	770	0.25	-	INLINE	DIRECT	-		115	1	60		

POINT-OF-USE EXTRACTION ARM SCHEDULE													
MARK	NEEDERMAN	MODEL NUMBER	AIRFLOW (CFM)	PRESSURE (IN-WG)	ARM DIAMETER	MAX VACUUM	REMARKS						
EXA-1		FX-ORIG-D75-L1100-Up-Plus	110	1.2" wc	3"	0.51 PSI	1,2,3,4,5,6						
EXA-2		FX-ORIG-D75-L1100-Up-Plus	110	1.2" wc	3"	0.51 PSI	1,2,3,4,5,6						
EXA-3		FX-ORIG-D75-L1100-Up-Plus	110	1.2" wc	3"	0.51 PSI	1,2,3,4,5,6						
EXA-4		FX-ORIG-D75-L1100-Up-Plus	110	1.2" wc	3"	0.51 PSI	1,2,3,4,5,6						

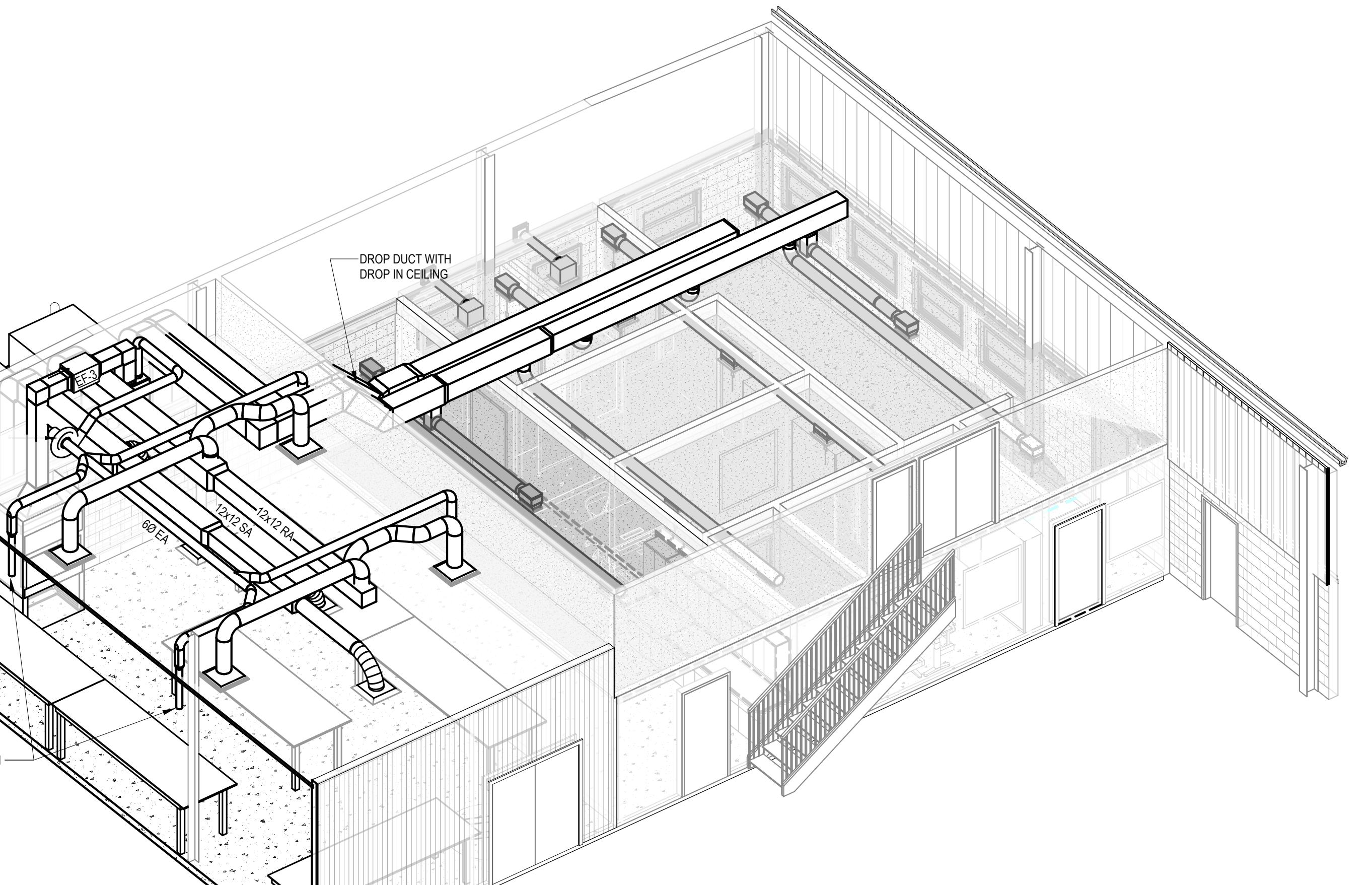
POINT-OF-USE EXTRACTION EXHAUST FAN													
MARK	MANUFACTURER	MODEL #	AIRFLOW (CFM)	WORKING PRESSURE (IN-WG)	DUST BIN VOLUME	MAX VACUUM	HP	INLET / OUTLET	VOLTS	FLA	MCA	MoCP	REMARKS
EF-X1	NEEDERMAN	N16#14510321	230-700	4.4"- 2.6" wc	4.8 FT ³	7.5" wc	3/4	6" / 8"	120-1	6.6	-	20	1,2,3,4

REMARKS:
1. RATED FOR INDOOR/OUTDOOR USE.
2. NOISE LEVEL: 62 DB(A) AT 600 CFM.
3. GALVANIZED SHEET STEEL DUCTING.
4. DIE-CAST ALUMINUM IMPELLER.
5. FURNISH WITH LOCAL SWITCH CONTROLLER (FAN CONTROL SERIES 89) #14510321.
6. FURNISH WITH FOUR (4) OPERATIONS BOXES, ONE FOR EACH SNORKEL ARM.
7. FURNISH WITH SUPPORT BRACKET FOR N10N16N24 FOR FIXED MOUNTING, INCL GUARD NET AND INLET CONNECTION. #14510126.
6. FURNISH WITH ALL NECESSARY ACCESSORIES FOR A COMPLETE AND OPERATING SYSTEM.

NOTE: POINT OF USE EXTRACTION ARMS, EXHAUST FAN, AND CONTROLLERS SHALL ALL BE FURNISHED AS A COMPLETE SYSTEM, AND SUPPLIED BY ONE MANUFACTURER.



POINT-OF-USE EXTRACTION ARM MOUNTING DETAIL

HVAC 3D DIAGRAM
M600

ASHRAE 62.1 VENTILATION RATE PROCEDURE SUMMARY													
LOCATION	NAME	Occupancy Category	Area, Az	Number of People, Pz	Outdoor Airflow Rate Per Person, Rp	Per Unit Area, Ra	Breathing Zone	Outdoor Airflow, Voz	Zone Air Distribution Effectiveness, Ez	Required Outdoor Air Intake Flow, Vot			
101	OPEN OFFICE	Office space	317 SF	4	5.0 CFM	0.06 CFM/SF	1	1	1	117			
102	GRAIN QUALITY LAB	Science laboratories	429 SF	4	100 CFM	0.18 CFM/SF	1	1	1	117			
103	OFFICE	Office space	98 SF	1	5.0 CFM	0.05 CFM/SF	11	1	1	11			
104	CLOSET	Telephone closets	19 SF	1	5.0 CFM	0.05 CFM/SF	11	1	1	11			
104A	CLOSET	Telephone closets	37 SF	0	0.0 CFM	0.00 CFM/SF	0	0	1	0			
105	OFFICE	Office space	108 SF	1	5.0 CFM	0.06 CFM/SF	11	1	1	11			
106	RR												



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SUBMITTAL DATE
PHASE 1

UK GREENHOUSE,
HEADHOUSE, AND SEEDHOUSE
UNIVERSITY OF KENTUCKY
SPINDLETOP WAY, LEXINGTON, KY 40511
UPPER LEVEL ELECTRICAL DEMOLITION PLAN -
SEEDHOUSE



1
E102
UPPER LEVEL ELECTRICAL DEMOLITION PLAN - SEEDHOUSE
1/8" = 1'-0"

No.	Date
1	01/29/26

Project Number 2501
Date NOVEMBER 18, 2025
Drawn By RPG
Checked By GGC

1/28/2026 2:07:31 PM

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BMITTAL	DATE
ASE 1	

UK GREENHOUSE,
HEADHOUSE, AND SEEDHOUSE
UNIVERSITY OF KENTUCKY
SPINDLETOP WAY, LEXINGTON, KY 40511
FIRST FLOOR LIGHTING PLAN - SEEDHOUSE



Project Number 2501

Project Number 2501

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Checked By **CCC**

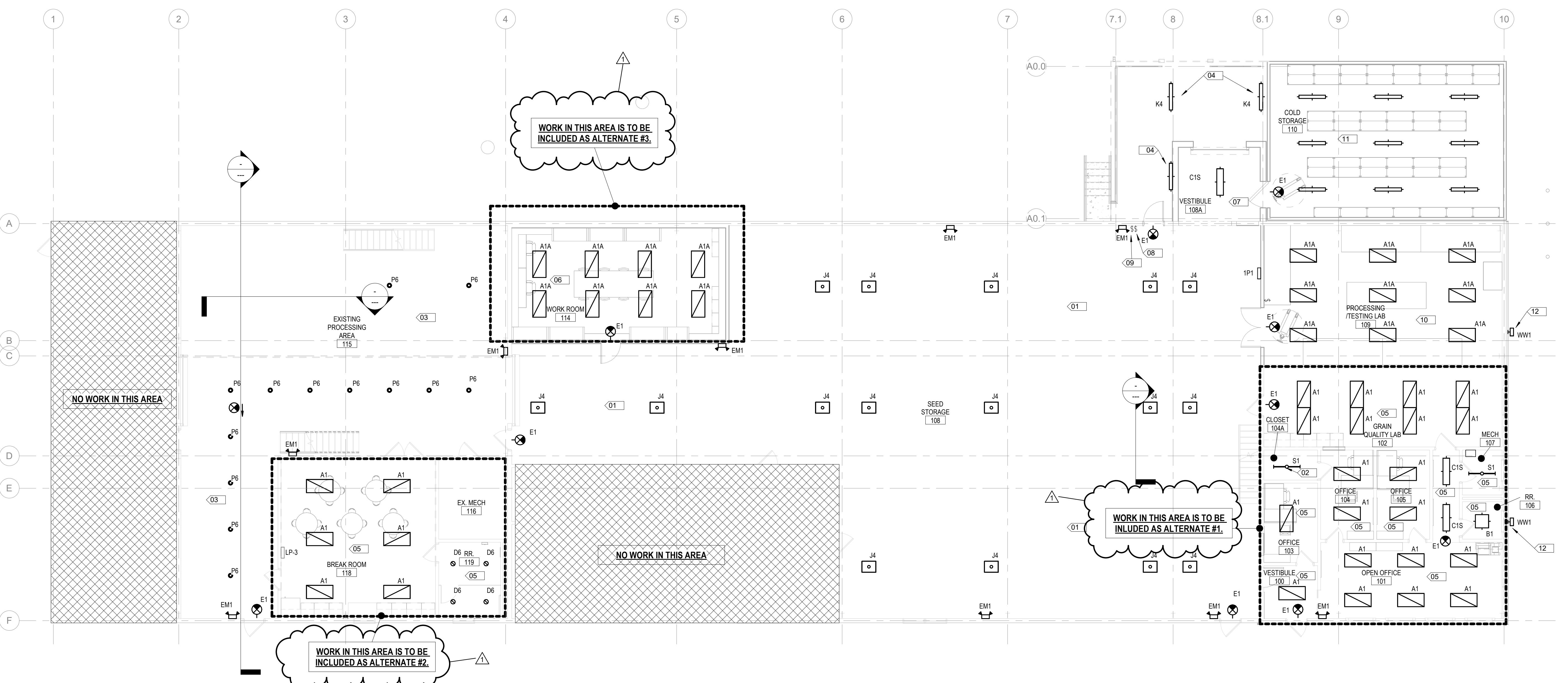
checked by **GGC**

E201

E201

11. *What is the primary purpose of the following statement?*

#	DESCRIPTION
01	ALL J4 LIGHT FIXTURES ARE TO BE MOUNTED SO THAT BOTTOM OF FIXTURE IS 13'-0" AFF.
02	LIGHT FIXTURE IS TO BE MOUNTED TO GRID CEILING.
03	ALL P6 LIGHT FIXTURES ARE TO BE MOUNTED SO THAT BOTTOM OF FIXTURE IS 13'-0" AFF.
04	K4 LIGHT FIXTURES IN THE LOADING DOCK ARE TO BE SURFACE MOUNTED TO UNDERSIDE OF STRUCTURE.
05	LIGHT FIXTURES IN THIS AREA ARE TO BE CIRCUITED USING EXISTING CIRCUIT. EXTEND CIRCUITING AS REQUIRED.
06	LIGHT FIXTURES IN THIS AREA ARE TO BE CIRCUITED TO PANEL 1P1.
07	LIGHT FIXTURE IN THIS AREA IS TO BE TIED INTO THE EXISTING CIRCUIT THAT IS POWERING THE J4 FIXTURES.
08	THIS SWITCH IS TO CONTROL ALL LIGHTS IN THE LOADING DOCK.
09	EXISTING SWITCH IS TO BE RELOCATED TO THIS LOCATION. THIS SWITCH IS TO CONTROL ALL LIGHTS IN THE SEED STORAGE AREA.
10	LIGHT FIXTURES IN THIS SPACE ARE TO BE CIRCUITED TO EXISTING CIRCUIT.
11	LIGHT FIXTURES IN THIS AREA ARE SUPPLIED BY WALK IN COOLER MANUFACTURER. PROVIDE ELECTRICAL CONNECTION TO LIGHT FIXTURES AND SWITCH. SEE POWER PLANS.
12	LIGHT FIXTURE IS TO USE EXISTING CIRCUIT. THIS FIXTURE IS TO BE MOUNTED AT 12'-0" AFF.



1 FIRST FLOOR LIGHTING PLAN - SEEDHOUSE
E201 1/8" 11.0"

E2

201



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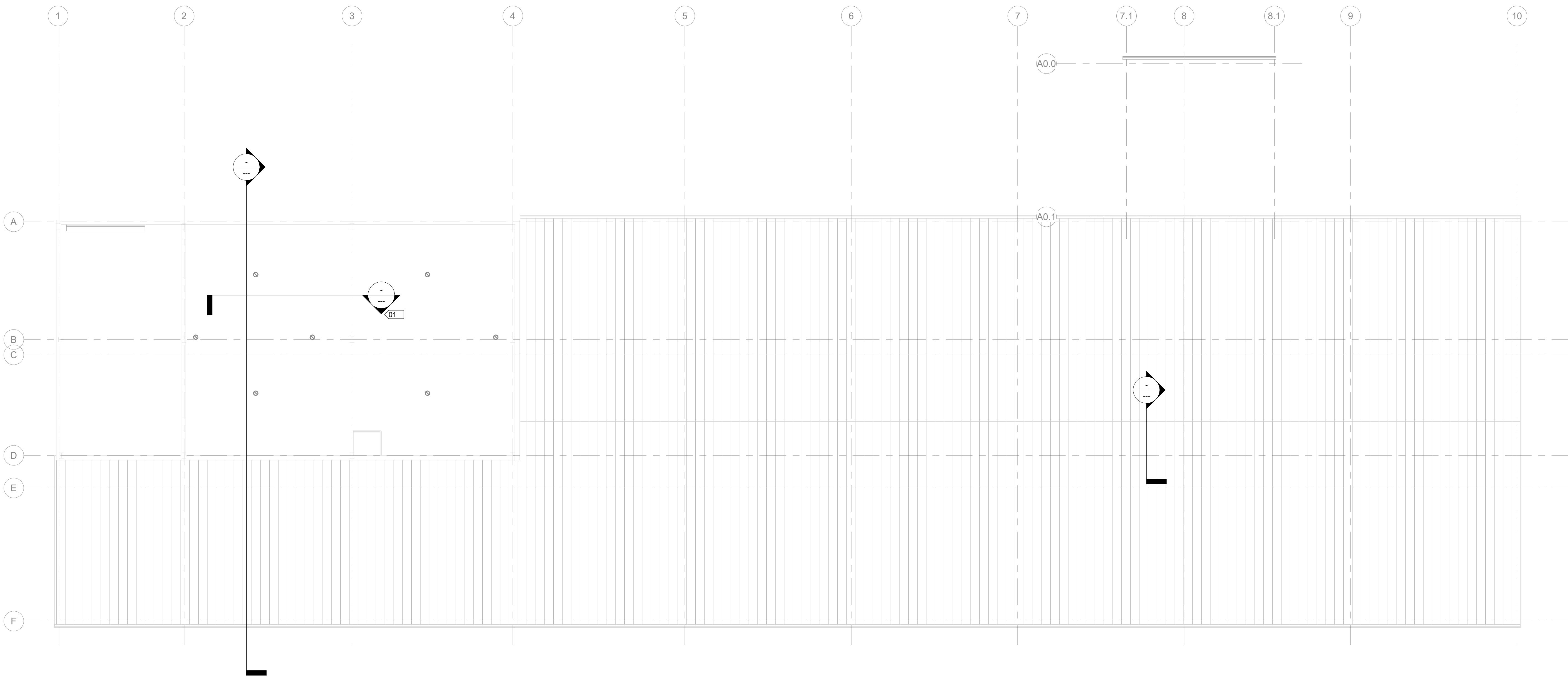
SUBMITTAL | DATE
PHASE 1

UK GREENHOUSE,
HEADHOUSE, AND SEEDHOUSE
UNIVERSITY OF KENTUCKY
SPINDLETOP WAY, LEXINGTON, KY 40511
UPPER LEVEL LIGHTING PLAN - SEEDHOUSE



1 E202
1/8" = 1'-0"
UPPER LEVEL LIGHTING PLAN - SEEDHOUSE

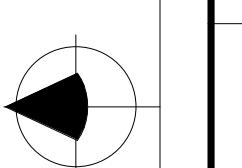
KEYNOTES 3E202	
#	DESCRIPTION
01	ALL LIGHT FIXTURES IN THIS AREA ON LEVEL 2 AND LEVEL 3 ARE TO BE PROVIDED WITH NEW CORN COB BULBS. BULB IS TO BE PHILIPS LED CORN COB BULB COREPRO 36W, 4000K, 5200 LM.



No.	Date
1	01/29/26

Project Number 2501
Date NOVEMBER 18, 2025
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1/28/2026 2:07:43 PM



E202



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ARCHITECT: **moris workshop**

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SUBMITTAL	DATE
PHASE 1	

**UK GREENHOUSE,
HEADHOUSE, AND SEEDHOUSE
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SPINDLETOP WAY, LEXINGTON, KY 40511
LUMINAIRE SCHEDULES**



No.	Date
1	01/29/26

Project Number 2501
Date NOVEMBER 18, 2025
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Checked By GGC

E203

LIGHTING FIXTURE SCHEDULE												
TYPE	DESCRIPTION	CIRCUIT VOLTAGE	MOUNTING	LAMP	LUMENS	CRI	COLOR TEMPERATURE	DRIVER TYPE	LENS/LOUVER	MANUFACTURER	CATALOG SERIES	NOTES
A1	2X4 LED SURFACE MOUNTED TROFFER WITH 1.9" DEEP STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT OPAL ACRYLIC DIFFUSER, INTEGRAL MULTIVOLT 1% DIMMABLE DRIVER, 4000 DELIVERED LUMENS, L90 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE-YEAR LIMITED FIXTURE WARRANTY.	120 V	SURFACE, CEILING	LED	4000 lm	80	4000 K	0-10V DIMMING TO 1%	FLAT ACRYLIC LENS	LITHONIA, OR EQUAL	STAK 2X4 4000LM 80CRI 40K COL MINI EZT MVOLT	
A1A	2X4 LED RECESSED TROFFER WITH 1.9" DEEP STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT OPAL ACRYLIC DIFFUSER, INTEGRAL MULTIVOLT 1% DIMMABLE DRIVER, 4000 DELIVERED LUMENS, L90 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE-YEAR LIMITED FIXTURE WARRANTY.	120 V	RECESSED, ACT CEILING	LED	4000 lm	80	4000 K	0-10V DIMMING TO 1%	FLAT ACRYLIC LENS	LITHONIA, OR EQUAL	STAK 2X4 4000LM 80CRI 40K COL MINI EZT MVOLT	
B1	2X2 LED SURFACE MOUNTED TROFFER WITH 1.9" DEEP STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT OPAL ACRYLIC DIFFUSER, INTEGRAL MULTIVOLT 1% DIMMABLE DRIVER, 4000 DELIVERED LUMENS, L90 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE-YEAR LIMITED FIXTURE WARRANTY.	120 V	SURFACE, CEILING	LED	4000 lm	80	4000 K	0-10V DIMMING TO 1%	FLAT ACRYLIC LENS	LITHONIA, OR APPROVED EQUAL BY COLUMBIA, METALUX, ELITE	STAK 2X2 4000LM 80CRI 40K COL MINI EZT MVOLT	
C1S	1X4 LED SURFACE MOUNTED TROFFER WITH 1.9" DEEP STEEL HOUSING, INTEGRAL T-BAR CLIPS, COLD ROLLED STEEL REFLECTOR, POLYESTER POWDER COAT AFTER FABRICATION, IMPACT RESISTANT OPAL ACRYLIC DIFFUSER, INTEGRAL MULTIVOLT 1% DIMMABLE DRIVER, 4000 DELIVERED LUMENS, L90 RATED LIFE OF 60,000 HOURS, DLC QUALIFIED, AND FIVE-YEAR LIMITED FIXTURE WARRANTY.	120 V	SURFACE, CEILING	LED	4000 lm	80	4000 K	0-10V DIMMING TO 1%	FLAT ACRYLIC LENS	LITHONIA, OR EQUAL	STAK 1X4 4000LM 80CRI 40K COL MINI EZT MVOLT	
D8	RECESSED 6" LED DOWNLIGHT WITH 1000 LUMEN OUTPUT SELF-FLANGED ALZAK LOWER REFLECTOR, HIGHLY TRANSMISSIVE LENS, 55 DEGREE CUTOFF, GALVANIZED STEEL MOUNTING FRAME, ADJUSTABLE 16-GAUGE GALVANIZED STEEL MOUNTING BARS WITH CONTINUOUS 4" VERTICAL ADJUSTMENT FROM BELOW CEILING, GALVANIZED STEEL JUNCTION BOX WITH HINGED ACCESS COVERS, SOLID STATE LED LIGHT ENGINE AVAILABLE IN 4000 K COLOR TEMPERATURE, CLA 90+, CRI 80+, 100% PLATINUM, 100% RECYCLED, 100% REFRIGERANT FREE, 50,000 HOURS AT 70% OUTPUT, MAXIMUM 40 DEGREES CELSIUS OPERATING TEMPERATURE, ENERGY STAR CERTIFIED, AND 5-YEAR LIMITED WARRANTY.	120 V	RECESSED, GYP, CEILING OR ACT CEILING	LED	1000 lm	80	4000 K	0-10V DIMMING TO 1%	SEMI-SPECULAR CLEAR REFLECTOR WITH MEDIUM DISTRIBUTION AND WHITE TRIM	LITHONIA, OR EQUAL	LDN6 40/10 L06 AR LSS MVOLT GZ1 SF	
E1	SINGLE FACE OR DOUBLE FACE LED EXIT SIGN PER PLANS, DIE-CAST WHITE HOUSING, WHITE FACEPLATE WITH MATTE WHITE TRIM FINISH, GREEN LETTERING, UNIVERSAL DIRECTIONAL ARROWS SINGLE FACE ARROWS AS INDICATED ON DRAWINGS	120 V	UNIVERSAL MOUNT	LED		-		AC ONLY	FLAT ACRYLIC LENS	LITHONIA, OR EQUAL	LOM W G MVOLT	
EM1	DOUBLE REMOTE HEADS EMERGENCY LUMINAIRE, LOW/PROFILE, INJECTION-MOLDED, HIGH IMPACT THERMOPLASTIC HOUSING, SELF-DIAGNOSTIC SYSTEM, NICKEL CADMIUM BATTERY, WHITE FINISH	120 V	SURFACE, WALL	LED		-		LITHIUM IRON PHOSPHATE BATTERY	SPOT PATTERN LENS	LITHONIA, OR APPROVED EQUAL BY BEGHELLI, ISOLITE, SURELITES, LIGHTALARM	EU2C SERIES	1
J4	LED HIGHBAY WITH 1000 LUMEN OUTPUT, 100% RECYCLED, 100% REFRIGERANT FREE, 50,000 HOURS, UL LISTED FOR DRY LOCATIONS, AND FIVE-YEAR LIMITED WARRANTY.	120 V	SUSPENDED	LED	24000 lm	80	4000 K	0-10V DIMMING TO 1%	DIFFUSED ACRYLIC LENS	LITHONIA, OR EQUAL	CPHB 24000LM SEF GCL WD MVOLT G210 40K 80CR	
K4	SURFACE MOUNTED 4" APERTURE LIGHT WITH FORMED COLD ROLLED STEEL HOUSING, EXTRUDED ALUMINUM TRIM, FORMED STEEL REFLECTOR, 90% TRANSMISSIVE TEXTURED POLYCARBONATE LENS, MULTI-VOLT DIM TO BLACK DRIVER, 4000K LED LIGHT ENGINE PRODUCING 900 DELIVERED LUMENS PER FOOT, 8.1 WATTS PER FOOT, 100% RECYCLED, 100% REFRIGERANT FREE, 50,000 HOURS, UL LISTING FOR DRY LOCATIONS, AND FIVE-YEAR LIMITED WARRANTY.	120 V	SURFACE, CEILING	LED	3600 lm	80	4000 K	0-10V DIMMING TO 1%	FLAT ACRYLIC LENS	NULITE OR EQUAL	RR6 D FR F 09 L40 UNV D 14"	
P6	LED HIGHBAY WITH CAST ALUMINUM FINNED HEAT SINK, 18,000 DELIVERED LUMENS, 4000K 80CRI LED ARRAY, MICRO PRISMATIC WIDE DISTRIBUTION POLYCARBONATE OPTICAL, 0-10 VOLT 100-10% DIMMABLE LED DRIVER, HIGH TEMPERATURE 90°C CASE TEMPERATURE, LESS THAN 20% THD, PF .90, 100% RECYCLED, 100% REFRIGERANT FREE, 50,000 HOURS, UL LISTING FOR WET LOCATION, SUITABLE FOR USE IN AMBIENT TEMPERATURES FROM -40°C UP TO 55°C, AND 5-YEAR LIMITED WARRANTY.	120 V	SUSPENDED, GYP, CEILING OR ACT CEILING	LED	18000 lm	80	4000 K	0-10V DIMMING TO 1%	FLAT ACRYLIC LENS	LITHONIA, OR EQUAL	REBL AL013 WD UVOLT SWW3 80CRI	
S1	4' LED STRIP LIGHT WITH 20 GAUGE STEEL HOUSING, HIGH GLOSS BAKED WHITE ENAMEL FINISH, REPLACEABLE MEDIUM DIFFUSE ACRYLIC LENS, HIGH OUTPUT LEDS ON TWO LAYER CIRCUIT BOARD, ELECTRONIC LED DRIVER, 5000 DELIVERED LUMENS, 80 CRI, 70% OUTPUT AT 60,000 HOURS, CSA LISTED FOR DAMP LOCATIONS, AND FIVE-YEAR LIMITED WARRANTY. FIXTURE SHALL BE SURFACE MOUNTED OR SUSPENDED AS INDICATED ON DRAWINGS.	120 V	SURFACE, CEILING	LED	5000 lm	80	4000 K	0-10V DIMMING TO 1%	ROUND ACRYLIC DIFFUSE LENS	LITHONIA, OR EQUAL	ZL1N L48 SMR 5000LM FST MVOLT 40K 80CRI WH	

NOTES:

1. FIXTURE REQUIRES A DEDICATED HOT CONDUCTOR. COORDINATE WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS.

LIGHTING FIXTURE SCHEDULE (EXTERIORS)												
TYPE	DESCRIPTION	MOUNTING	LAMP	LUMENS	CRI	COLOR TEMPERATURE	DRIVER TYPE	LENS/LOUVER	MANUFACTURER	CATALOG SERIES	NOTES	
WW1	WALL MOUNTED ARCHITECTURAL WALL SCONCE, WITH VISUAL COMFORT FORWARD THROW DISTRIBUTION WITH BILGELEVEL MOTION SENSOR, WET LOCATION LISTED, WITH INTEGRAL BACKUP BATTERY. ARCHITECT SHALL SELECT FINISH DURING SHOP DRAWING PHASE	WALL	LED	2000lm	80	4000K	LED DRIVER	DIFFUSED ACRYLIC LENS	LITHONIA OR EQUAL BY METALUX, LIGHOLIER	WDGE2 LED P2 40K 80CRI VF MVOLT SRM E4WH	1	

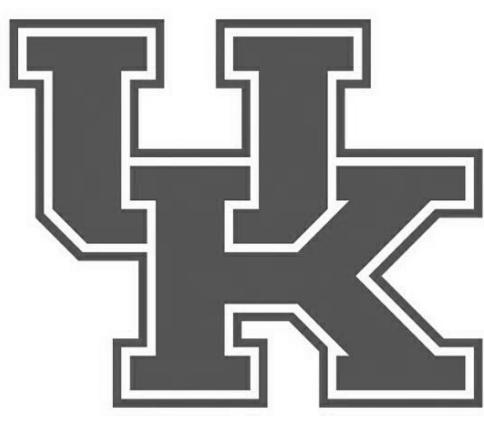
NOTES:

1. FIXTURE REQUIRES A DEDICATED HOT CONDUCTOR. COORDINATE WITH MANUFACTURERS' INSTALLATION INSTRUCTIONS.

No. Date
1 01/29/26

Project Number 2501
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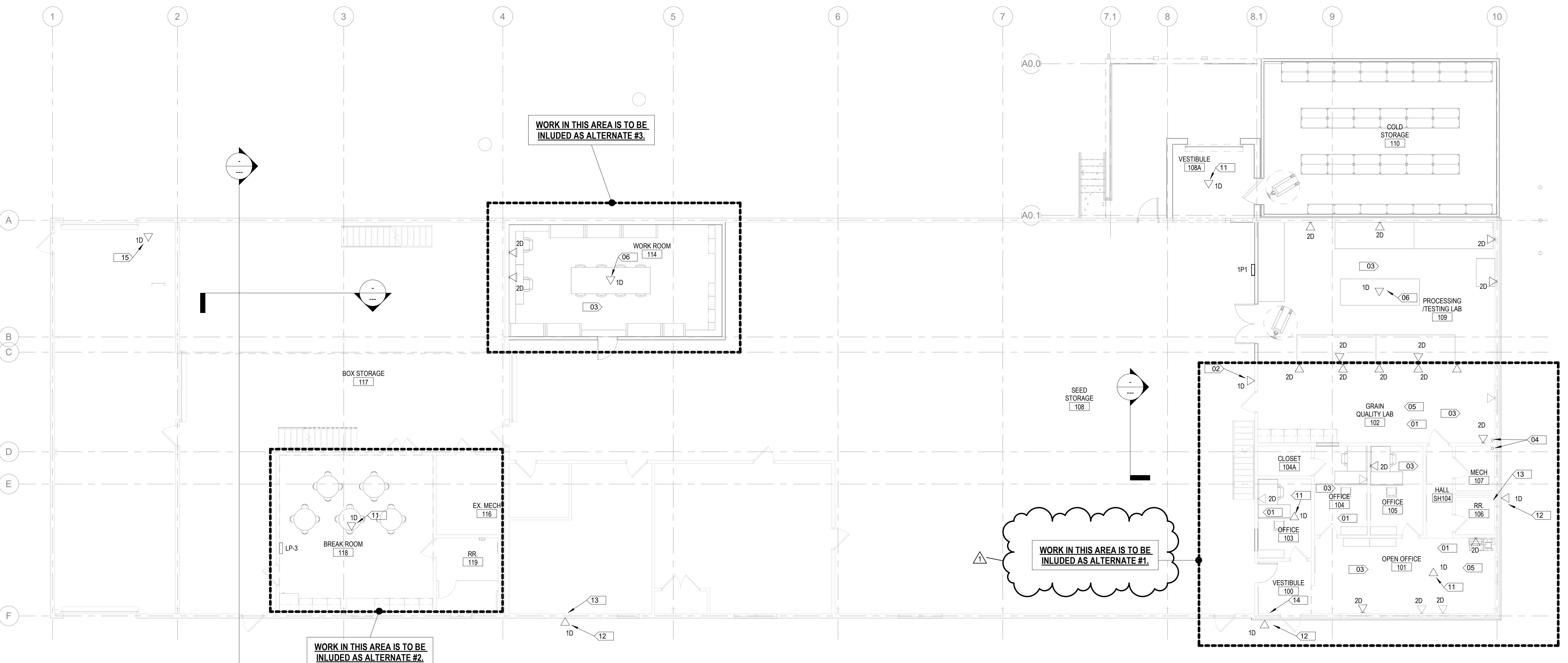
E203



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KEYNOTES 3E401	
#	DESCRIPTION
01	ALL EXISTING DATA DEVICES IN THIS AREA ARE TO RECEIVE NEW CONDUIT.
02	INSTALL DATA PORTS IN 5x5" BOX AT AN ELEVATION WITH BOTTOM OF BOX AT 12' AFF. BOX IS FOR OWNER PROVIDED WIRELESS ACCESS POINT. BOX IS TO FACE OUTWARDS. ALLOW ROOM TO MOUNT A 12x12x12" DEVICE TO BOX. COORDINATE INSTALLATION WITH ENGINEERING AND UK IT PRIOR TO ROUGH-IN.
03	ALL NEW DATA OUTLETS ARE TO BE ROUTED TO EXISTING SWITCH LOCATED ON UPPER FLOOR. SEE SHEET 3E402 FOR EXACT LOCATION.
04	PROVIDE AND INSTALL NEW 4" SLEEVE FROM FIRST FLOOR TO UPPER FLOOR CONDUIT IS TO BE STUBBED OUT 6" ON EITHER SIDE OF THE FLOOR.
05	NEW DATA OUTLETS ARE TO BE RAN THRU EXISTING WIREWAY AT THE TOP OF THE WALL. NEW DATA SHALL BE RAN THRU NEW 4" SLEEVE. SEE NOTE 04, THIS SHEET.
06	INSTALL DATA PORTS IN 5x5" BOX 18" ABOVE LAY-IN CEILING. BOX IS FOR OWNER PROVIDED WIRELESS ACCESS POINT. BOX IS TO DOWNSTAIRS. ALLOW ROOM TO MOUNT A 12x12x12" DEVICE TO BOX. COORDINATE INSTALLATION WITH ENGINEERING AND UK IT PRIOR TO ROUGH-IN.
11	INSTALL DATA PORTS IN 5x5" BOX FLUSH WITH FINISHED CEILING. BOX IS TO FACE OUTWARDS. ALLOW ROOM TO MOUNT A 12x12x12" DEVICE TO BOX. COORDINATE INSTALLATION WITH ENGINEERING AND UK IT PRIOR TO ROUGH-IN.
12	PROVIDE AND INSTALL 1-1/4" CONDUIT FOR EXTERIOR WIRELESS ANTENNA. CONDUIT IS TO BE STUBBED FLUSH WITH EXTERIOR WALL FINISH. LENGTH OF 8'-0". SEE NOTE 12 THIS SHEET.
13	INSTALL DATA PORTS IN 5x5" BOX 18" ABOVE LAY-IN CEILING FOR OWNER PROVIDED WIRELESS ACCESS POINT. ALLOW ROOM TO MOUNT A 12x12x12" DEVICE TO BOTTOM OF BOX. COORDINATE INSTALLATION WITH ENGINEERING AND UK IT PRIOR TO ROUGH-IN. SEE NOTE 12 THIS SHEET FOR CONNECTION TO WIRELESS ANTENNA VIA 1-1/4" CONDUIT.
14	INSTALL DATA PORTS IN 5x5" BOX LOCATED 12' AFF. BOX IS TO FACE DOWNSTAIRS. ALLOW ROOM TO MOUNT A 12x12x12" DEVICE TO BOX. COORDINATE INSTALLATION WITH ENGINEERING AND UK IT PRIOR TO ROUGH-IN. SEE NOTE 12 THIS SHEET FOR CONNECTION TO WIRELESS ANTENNA VIA 1-1/4" CONDUIT.
15	INSTALL DATA PORTS IN 5x5" BOX LOCATED 12' AFF. BOX IS TO FACE OUTWARDS. ALLOW ROOM TO MOUNT A 12x12x12" DEVICE TO BOX. COORDINATE INSTALLATION WITH ENGINEERING AND UK IT PRIOR TO ROUGH-IN.



1 FIRST FLOOR TECHNOLOGY PLAN - SEEDHOUSE
E401 1/8" = 1'-0"

UK GREENHOUSE,
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UNIVERSITY OF KENTUCKY
SPINDLETOP WAY, LEXINGTON, KY 40511
FIRST FLOOR TECHNOLOGY PLAN - SEEDHOUSE

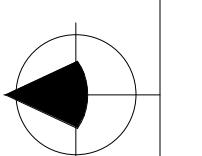


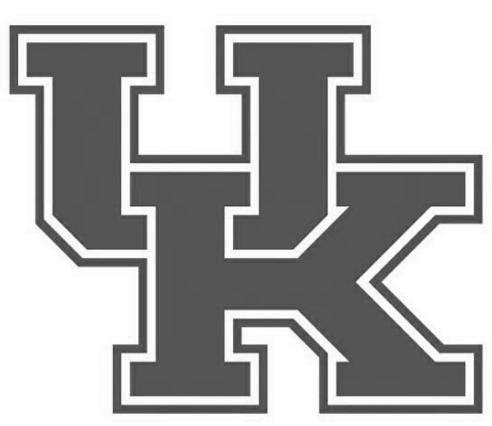
No.	Date
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E401

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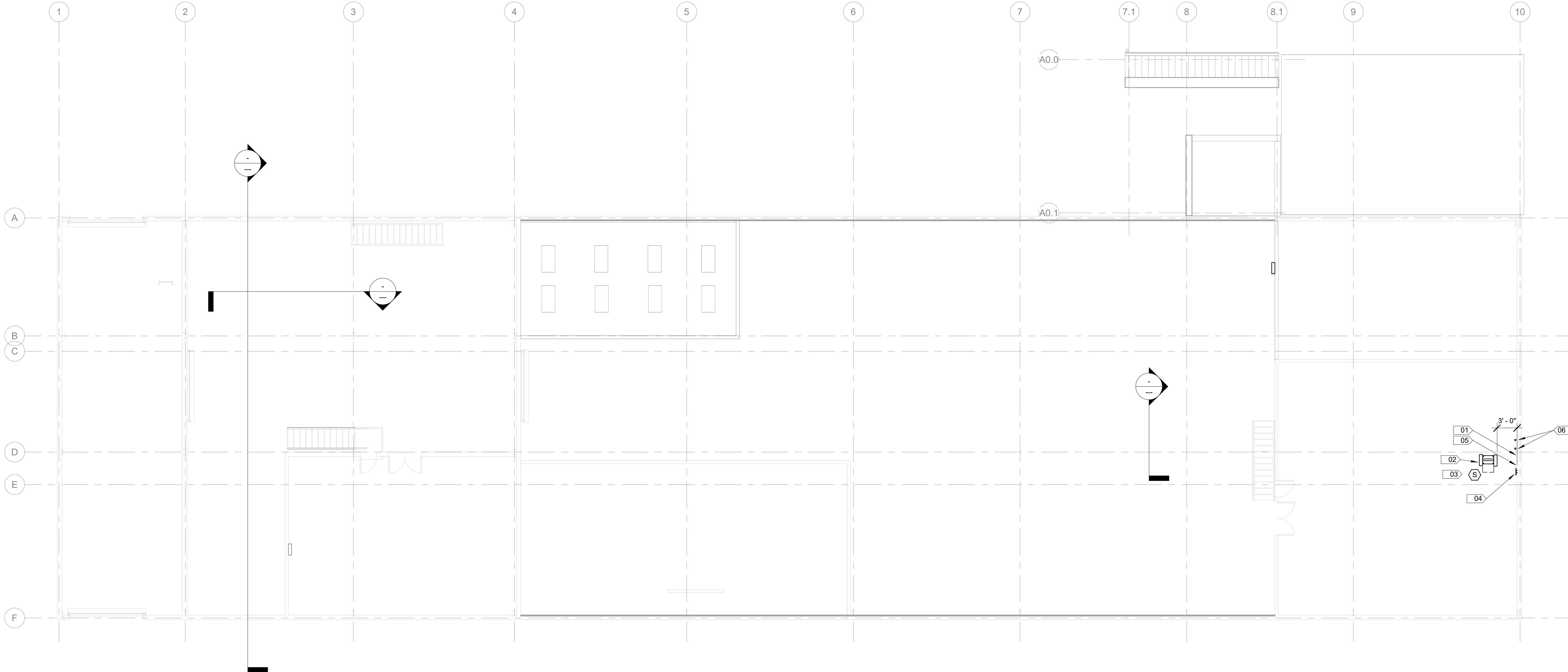




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PHASE 1UK GREENHOUSE,
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UPPER LEVEL TECHNOLOGY PLAN - SEEDHOUSE1
E402 UPPER LEVEL TECHNOLOGY PLAN - SEEDHOUSE
1/8" = 1'-0"

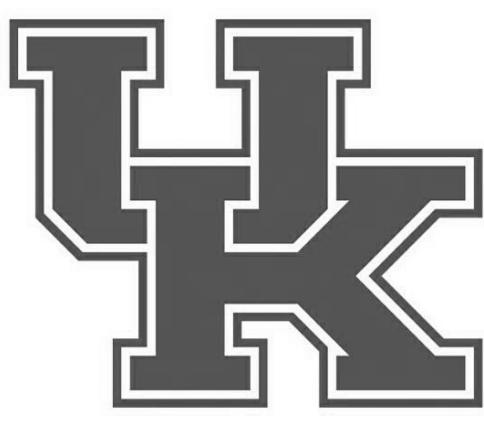
KEYNOTES 3E402	
#	DESCRIPTION
01	PROXIMATE LOCATION OF EXISTING DATA SWITCHES
02	PROVIDE AND INSTALL NEW TWO-POST RACKS AT THIS LOCATION
03	ALL EXISTING DATA SWITCHES, PATCH PANELS ETC. ARE TO BE RELOCATED FROM EXISTING LOCATION AND INSTALLED INTO NEW RACK. PROVIDE EARTH CABLES FROM EXISTING LOCATION. PROVIDE NEW CABLEING AND TERMINATIONS AS REQUIRED.
04	PROVIDE AND INSTALL NEW 4" SLEEVES ON EXISTING PLYWOOD AT 24". GROUNDBUS BARS TO BE INSTALLED ON EXISTING PLYWOOD. SEE DETAIL FOR ADDITIONAL INFORMATION. CONNECT THE GROUND BARS TO THE MAIN ELECTRICAL SERVICE GROUND SYSTEM WITH A #6 AWG WIRE.
05	EXISTING PLYWOOD AND 110 BLOCKS ARE TO REMAIN.
06	PROVIDE AND INSTALL NEW 4" SLEEVES FROM FIRST FLOOR TO UPPER FLOOR. CONDUIT IS TO BE STUBBED OUT 6" ON EITHER SIDE OF THE FLOOR.



No.	Date
1	01/29/26

Project Number 2501
Date NOVEMBER 18, 2025
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E402



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SPINDLETOP WAY, LEXINGTON, KY 40511
ELECTRICAL ONE-LINE DIAGRAM

PANELBOARD IDENTIFICATION	
SYSTEMS DESIGNATION:	CODE:
LIFE-SAFETY BRANCH	LS
Critical Branch	CR
EQUIPMENT BRANCH	EQ
UNINTERRUPTIBLE POWER	UPS
EQUIPMENT DESIGNATION:	CODE:
MAIN DISTRIBUTION SWITCHBOARD	MDS
DISTRIBUTION BOARD	DOB
DISTRIBUTION PANELBOARD (480/277V)	HD
PANELBOARD 3φ, 480/277V	LD
PANELBOARD 3φ, 120/208V	H
PANELBOARD 1φ, 480/277V	L
PANELBOARD 1φ, 120/208V	LCP
LIGHTING CONTROL PANEL	
EQUIPMENT DESIGNATION	FLOOR OF STRUCTURE (DOES NOT APPLY FOR SINGLE LEVEL STRUCTURES)
SYSTEM DESIGNATION	PANEL NO.
LSU-1-A	

FEEDER (AMPS)	CONDUIT	CONDUCTOR
20-3	3/4"	3#12 & 1#12 GND 60"
20-4	3/4"	4#12 & 1#12 GND 60"
30-3	3/4"	3#10 & 1#10 GND 60"
30-4	3/4"	4#10 & 1#10 GND 60"
40-3	3/4"	3#8 & 1#10 GND 60"
40-4	3/4"	4#8 & 1#10 GND 60"
50-3	1"	3#6 & 1#10 GND 60"
50-4	1"	4#6 & 1#10 GND 60"
60-3	1 1/2"	3#4 & 1#8 GND 60"
60-4	1 1/2"	4#4 & 1#8 GND 60"
70-3	1 1/2"	3#4 & 1#8 GND 60"
70-4	1 1/2"	4#4 & 1#8 GND 60"
80-3	1 1/2"	3#3 & 1#8 GND 60"
80-4	1 1/2"	4#3 & 1#8 GND 60"
90-3	1 1/2"	3#2 & 1#8 GND 60"
90-4	1 1/2"	4#2 & 1#8 GND 60"
100-3	1 1/2"	3#1 & 1#8 GND 60"
100-4	1 1/4"	4#1 & 1#8 GND 60"
100-5	1 1/2"	5#1 & 1#8 GND 60"
125-3	1 1/2"	3#1 & 1#6 GND 75"
125-4	1 1/2"	4#1 & 1#6 GND 75"
150-3	1 1/2"	3#10 & 1#6 GND 75"
150-4	2"	4#10 & 1#6 GND 75"
175-3	2"	3#20 & 1#6 GND 75"
175-4	2"	4#20 & 1#6 GND 75"
200-3	2"	3#30 & 1#6 GND 75"
200-4	2 1/2"	4#30 & 1#6 GND 75"
200-5	2 1/2"	5#30 & 1#6 GND 75"
225-3	2"	3#40 & 1#4 GND 75"
225-4	2 1/2"	4#40 & 1#4 GND 75"
225-5	3"	5#40 & 1#4 GND 75"
250-3	2 1/2"	3#25 & 1#4 GND 75"
250-4	3"	4#25 & 1#4 GND 75"
300-3	3"	3#350 & 1#4 GND 75"
300-4	3"	4#350 & 1#4 GND 75"
400-3	(2) 2 1/2"	3#30 & 1#3 GND 75"
400-4	(2) 2 1/2"	4#30 & 1#3 GND 75"
400-5	(2) 2 1/2"	5#30 & 1#2 GND 75"
500-3	(2) 2 1/2"	3#25 & 1#2 GND 75"
500-4	(2) 3"	4#25 & 1#2 GND 75"
600-3	(2) 3"	3#350 & 1#1 GND 75"
600-4	(2) 3"	4#350 & 1#1 GND 75"
600-5	(2) 3 1/2"	3#300 & 1#1 GND 75"
800-4	(3) 3"	4#400 & 1#2 GND 75"
1000-3	(3) 3"	3#400 & 1#2 GND 75"
1000-4	(3) 3"	4#400 & 1#2 GND 75"
1200-3	(4) 3"	3#350 & 1#3 GND 75"
1200-4	(4) 3"	4#350 & 1#3 GND 75"
1600-3	(5) 3"	3#400 & 1#4 GND 75"
1600-4	(5) 3 1/2"	4#400 & 1#4 GND 75"
2000-3	(6) 3"	3#400 & 1#250 GND 75"
2000-4	(6) 3 1/2"	4#400 & 1#250 GND 75"
2500-3	(7) 3 1/2"	3#4500 & 1#350 GND 75"
2500-4	(7) 3 1/2"	4#4500 & 1#350 GND 75"
3000-3	(8) 3 1/2"	3#500 & 1#400 GND 75"
3000-4	(8) 3 1/2"	4#4500 & 1#400 GND 75"

SINGLE LINE DIAGRAM ABBREVIATIONS	
A	AMPERAGE
Af	FUSE AMPACITY SIZE
AFC	AVAILABLE FAULT CURRENT
FTL	FEED THROUGH LUGS
AIC	ARC INTERRUPTING CAPACITY
G/GND	GROUNDS
k	KILOUNE THOUSANDS
LSI	LONG TIME TRIP AND DELAY + SHORT TIME TRIP AND DELAY + INSTANTANEOUS CIRCUIT BREAKER
LSIG	MAIN CIRCUIT BREAKER
MCB	MAIN BREAKER
SCCR	SHORT CIRCUIT CURRENT RATING
SPD	SURGE PROTECTION DEVICE
V	VOLTAGE
VFD	VARIABLE FREQUENCY DRIVE

SINGLE LINE SYMBOLS LEGEND	
0 A	AUTOMATIC TRANSFER SWITCH
0 A	CIRCUIT BREAKER
	DISCONNECT
SPD 277/480V 200A 100kAIC MAFC MCB FTL	DISTRIBUTION PANELBOARD
4WG50	ELECTRICAL UTILITY
3P/	FEEDER TAG
G	GENERATOR
M	METER
M	MOTOR
SPD 277/480V 200A 100kAIC MAFC MCB FTL	PANELBOARD
SPD	SURGE PROTECTION DEVICE
	TRANSFORMER
VFD	VFD

NOTES:

- VOLTAGE DROP CONSIDERATIONS NOT TAKEN INTO CONSIDERATION IN TABLE.
- APPROVED CONDUCTOR INSULATIONS: THHN/THWN-2, THHN/THWN-2 REFER TO PROJECT SPECIFICATIONS FOR INSULATION TYPE REQUIRED WITH VARYING CONDUCTOR SIZES AND APPLICATIONS.
- WHERE FEEDER SCHEDULE IS DENOTED 60" HAVE BEEN SIZED PER THE 60" COLUMN IN NEC 310.16.
- WHERE FEEDER SCHEDULE IS DENOTED 75" HAVE BEEN SIZED PER THE 75" COLUMN IN NEC 310.16.
- FEEDER NOMENCLATURE:
100-3 = 3 HOT, 1 GND
100-4 = 3 HOT, 1 NEUTRAL, 1 GND
100-5 = 3 HOT, 2 NEUTRAL, 1 GND

No.	Date
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Project Number	
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Branch Panel: 1P1									
Location: SEED STORAGE 108	Volts: 120/208 Wye	A.I.C. Rating: 22000							
Supply From:	Phases: 3	Mains Type: MLO							
Mounting: SURFACE	Wires: 4	Mains Rating: 225 A							
Enclosure: NEMA 1									
Header Notes:									
RCPT - BREAKROOM 116	1	20 A	1	540 VA	180 VA		1	20 A	2 HVAC EF-3
EXHAUST FAN EF-X1	3	20 A	1	795 VA	1200...		1	20 A	4 CEILING FAN RM 108
RCPT - RM 103	5	20 A	1	900 VA	8170...		1	20 A	6 WALK-IN COOLER EVAPORATOR
CU - RM 114	7	20 A	2	1435...	3609...		2	20 A	8 HP-1 INDOOR UNIT
HP-1 OUTDOOR UNIT - RM118	11	20 A	2	1435...	3609...		1	20 A	12 PLUMBING FIXTURES
RCPT - RM 102	13	20 A	1	860 VA	360...		2	50 A	16 HP-2 INDOOR UNIT
RCPT - RM 109	15	20 A	1	540 VA	720 VA		1	20 A	18 RCPT - POWER POLES - RM 109
INSTANTENEOUS WATER HEATER - RM 107	17	20 A	1	1200...	360 VA		1	20 A	22 TRAP PRIMERS - RM 109
RCPT RM 103	21	20 A	1	360 VA	720 VA		1	20 A	22 RCPT - WORK ROOM 114
RCPT - RM 101	23	20 A	1	360 VA	720 VA		1	20 A	24 RCPT - WORK ROOM 114
RCPT - BREAKROOM 118	25	20 A	1	360 VA	720 VA		1	20 A	26 RCPT - WORK ROOM 114

SECTION 101100 - VISUAL DISPLAY UNITS**PART 1 GENERAL****1.1 SUMMARY**

- A. Section Includes.
 - 1. Visual markerboards.

1.2 ACTION SUBMITTALS

- A. Shop Drawings:
 - 1. Include plans, elevations, sections, details, and attachment to other Work.

1.3 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For visual display units.
- B. Warranty Documentation.

1.4 FIELD CONDITIONS

- A. Ambient Conditions: Perform Work within following limitations:
 - 1. Building enclosed and environmental systems maintaining design conditions for Owner occupancy.
- B. Existing Conditions: Verify field measurements before fabrication. Show field measurements on Shop Drawings.

1.5 WARRANTY

- A. Manufacturer Warranty:
 - 1. Marker Boards: Warrant against product failure.
 - a. Warranty Period: [Ten years].

PART 2 PRODUCTS**2.1 VISUAL MARKERBOARDS**

- A. High-Pressure Laminate-Faced Markerboards:
 - 1. Manufacturers and Products:
 - a. Claridge Equipment.

- b. ASI Visual Display Products.
- c. Everwhite.
- d. Or approved equal.
- 2. Color: [Architect selected].
- 3. Mounting: Manufacturer standard [concealed] system.
- 4. Size: [48" x 36"].
- 5. Aluminum Frame: Fabricated from not less than 0.062 inch thick, extruded aluminum; standard size and shape.
 - a. Aluminum Finish: Clear anodic finish.
- 6. Display Rail: Manufacturer's standard, extruded-aluminum display rail with plastic-impregnated-cork insert, end stops, and continuous paper holder, designed to hold accessories.
 - a. Size: 2 inches high by full length of visual display unit.
 - b. Aluminum Finish: Match finish of visual display frame.
- 7. Chalktrough: Manufacturer's standard, extruded-aluminum chalktrough with end closures.
 - a. Size: Full length of visual display unit.
 - b. Aluminum Finish: Match finish of visual display frame.

2.2 PERFORMANCE

- A. Surface Burning: ASTM E84 Class [A].
 - 1. Flame Spread Index: [25], maximum.
 - 2. Smoke Developed Index: [50], maximum.

2.3 MATERIALS

- A. Aluminum: ASTM B221, manufacturer recommended alloy and temper.
- B. Wood Panel Products:
 - 1. Particleboard: ANSI A208.1 Grade M-2 or better.
 - 2. Medium Density Fiberboard: ANSI A208.2, Grade 130.
 - 3. Hardboard: AHA 135.4,[standard] and [tempered] grade.
- C. Adhesives: Recommended by visual display unit manufacturers.
- D. Fasteners: Type, size, and material to suit each application.

2.4 FABRICATION

- A. Shop assemble Work for delivery to site, permitting passage through building openings.

PART 3 EXECUTION**3.1 EXAMINATION**

- A. Verify substrate surfaces are [painted and] ready to receive Work.
- B. Mechanically Fastened Panels: Verify backing is installed and capable of supporting visual display boards.

3.2 INSTALLATION

- A. Wall Mounted Units: Install visual display units level, and plumb. Provide anchors and accessories necessary for complete installation.
- B. Freestanding Units: Place where shown on Drawings or turn over to Owner.

3.3 CLEANING AND PROTECTION

- A. Clean visual display units.
- B. Cover and protect visual display units after installation and cleaning.

END OF SECTION 101100

SECTION 111313 - LOADING DOCK BUMPERS**PART 1 GENERAL****1.1 SUMMARY**

- A. Section Includes:
 - 1. Loading Dock Bumpers<WHAT is installed, HOW is it installed, WHERE is it installed>.
- B. Related Requirements:
 - 1. Section 033000 "Cast-in-Place Concrete.

1.2 ACTION SUBMITTALS

- A. Product Data:
 - 1. Initial selection color [charts].
 - 2. <Submittal requirement>
- B. Shop Drawings:
 - 1. For dock bumpers. Include plans, elevations, sections, details and attachments to other work.

1.3 CLOSEOUT SUBMITTALS

- A. Maintenance Contracts: For dock bumpers.
- B. Operation and Maintenance Data: For dock bumpers.
- C. Warranty Documentation: For dock bumpers.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Storage and Handling Requirements:
 - 1. Dock bumpers: Per manufacturer's recommendation.

PART 2 PRODUCTS**2.1 DOCK BUMPERS**

- A. General: Surface-mounted bumpers; of type, size, and construction indicated; designed to absorb kinetic energy and minimize damage to loading dock structure.

- B. Laminated-Tread Dock Bumper: Fabricated from multiple, uniformly thick plies cut from fabric-reinforced rubber tires. Laminate plies under pressure on not less than two 3/4-inch- (19-mm-) diameter, steel supporting rods that are welded at one end to 1/4-inch- (6-mm-) thick, structural-steel end angle and secured with a nut and angle at the other end. Fabricate angles with predrilled anchor holes and sized to provide not less than 1 inch (25 mm) of tread plies extending beyond the face of closure angles.
 - 1. Thickness: 6 inches (152 mm).
 - 2. Horizontal Style: 12 inches (305 mm) high by length indicated on Drawings.
- C. Anchorage Devices: Galvanized-steel anchor bolts, nuts, washers, bolts, sleeves, cast-in-place plates, and other anchorage devices as required to fasten bumpers securely in place and to suit installation type indicated. Hot-dip galvanized according to ASTM A 153/A 153M or ASTM F 2329.
- D. Materials: ASTM 36/A 36M for steel plates, shapes, and bars. Hot-dip galvanize according to ASTM A 123/A 123M.
- E. Provide anchor imbed and templates for location to concrete Trade Contractor for installation.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Dock Bumpers: Attach dock bumpers to face of loading dock in a manner that complies with requirements indicated for spacing, arrangement, and position relative to top of platform and anchorage.
 - 1. Welded Attachment: Plug-weld anchor holes in contact with steel inserts and fillet weld at other locations.
 - 2. Bolted Attachment: Attach dock bumpers to preset anchor bolts embedded in concrete or to cast-in-place inserts or threaded studs welded to embedded-steel plates or angles. If preset anchor bolts, cast-in-place inserts, or threaded studs welded to embedded-steel plates or angles are not provided, attach dock bumpers by drilling and anchoring with expansion anchors and bolts.

3.2 EXAMINATION

- A. Verification of Conditions.
- B. Evaluation and Assessment.

3.3 PREPARATION

- A. Protection of In-Place Conditions:
- B. Surface Preparation:

3.4 ERECTION / INSTALLATION / APPLICATION - GENERAL

- A. Follow <insert applicable reference standard>.

3.5 ADJUSTING

- A. After completing installation of exposed, factory-finished dock bumpers, inspect exposed finishes and repair damaged finishes.

3.6 CLEANING

- A. Cleaning:

END OF SECTION 111313