



UACCB GATEWAY CENTER FARM

2210 E. Main Street, Batesville, AR

University of Arkansas Community College at Batesville

100% CONSTRUCTION DRAWINGS

04.18.2025

FENNELL | PURIFOY

ARCHITECTS

100 RIVER BLUFF DRIVE, SUITE 320 • LITTLE ROCK, AR 72202
T 501.372.6734 • F 501.372.6736



UACCB GATEWAY CENTER FARM
2210 E. Main Street, Batesville, AR

REVISIONS:
100% CONSTRUCTION DRAWINGS
04.18.2025

COVER SHEET
A0.0

CODE RESEARCH

Applicable Codes:

Building Code: 2021AR Fire Prevention Code Vol. 2 (AFPC)
Fire Code: 2021AR Fire Prevention Code Vol. 1 (AFPC)
Accessibility Standard: ICC/ANSI A117.1 as referenced in 2021 APFC Vol. 2 Chapter 11
Accessibility Act Standard: 2010 American Disability Act Standards for Accessible Design
Energy Code: 2014 Arkansas Energy Code
Plumbing Code: 2018 Arkansas Plumbing Code with appendices B, C, D, E, F
Mechanical Code: 2021 International Mechanical Code with appendix A
Electrical Code: 2020 National Electrical Code

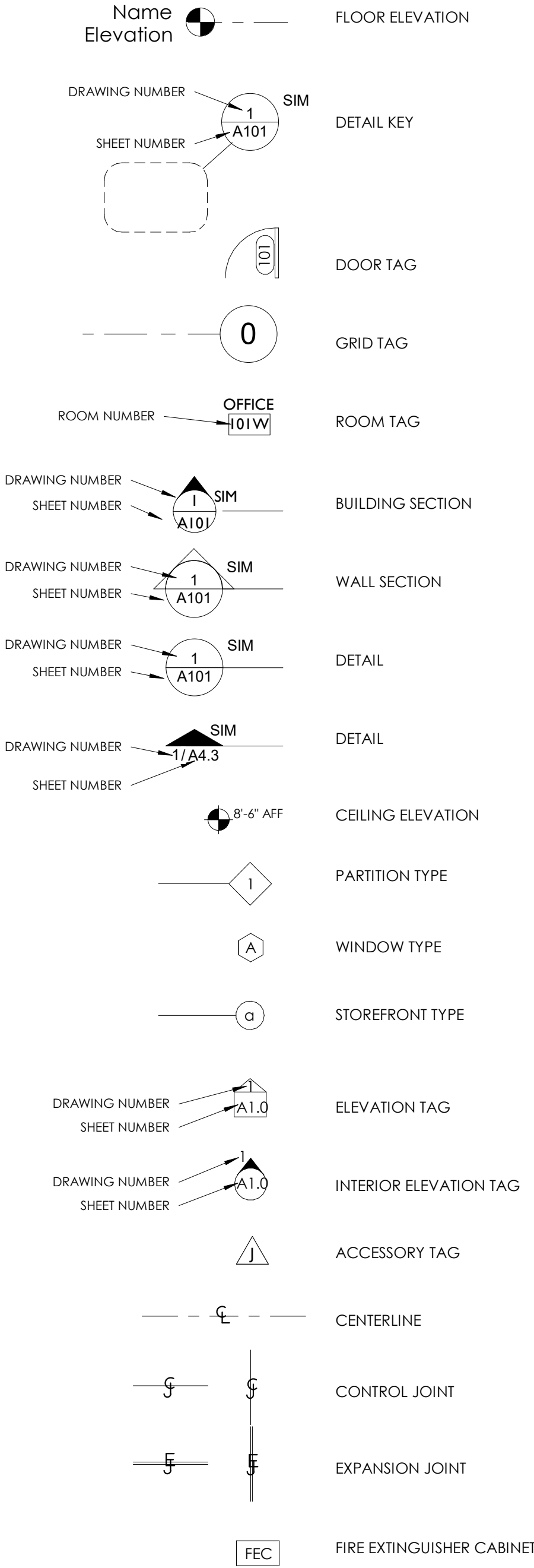
Building Code Requirements:

Occupancy (303.3): Business & Group F-1 (Factory Moderate Hazard)
Accessory Occupancy: Group B (Business)
Allowable Area Per Story (Table 506.2): 6,000 s.f. total allowable area per story
Allowable Height (Table 504.3): 40 feet total allowable building height
Actual Area: 99,872 s.f. actual building area; project scope: 9,589 s.f.
Construction Type: Type II - Existing Non-Sprinklered Building (Section 602.5)
Fire-Resistance Rating Requirements for Building Elements (Table 601 & 705.5):
Primary Structural Frame: 0 hrs
Bearing Walls:
Exterior: 0 hrs
Interior: 0 hrs
Nonbearing Walls:
Exterior: 0 hrs
Interior: 0 hrs
Floor Construction: 0 hrs
Roof Construction: 0 hrs

Interior Wall and Ceiling Finish Requirements by Occupancy in Sprinklered Buildings (Table 803.13):

Interior Exit Passageways: A
Corridors: A
Rooms & Enclosed Spaces: B
Interior Floor Finish Requirements: See 804.4
Occupant Load (Table 1004.5): 273 occupants
Means of Egress Required Capacity based on Occupant Load (1005.3):
Egress Width: Required: 25.2" Actual: 32"
Size of Doors (1010.1.1): Minimum of 32 in clear width
Common Path of Egress Travel (Table 1030.8): 75'
Exit Access Travel Distance (Table 1017.2): 250'
Corridor Fire-Resistance Rating (Table 1020.2): 2 hour
Minimum Corridor Width (Table 1020.3): 44"
Dead End Corridors (1020.5): 50'
Minimum Number of Required Plumbing Fixtures (Table 403.1 of 2018 Arkansas Plumbing Code):
Water Closets (1 per 25 for first 50; 1 per 50 remainder occupants); 7
Lavatories (1 per 40 for first 80; 1 per 80 for remainder occupants); 5
Drinking Fountains (1 per 400 occupants); 1
Other: 1 Service sink

SYMBOL LEGEND



CONSULTANTS

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DRAWING INDEX

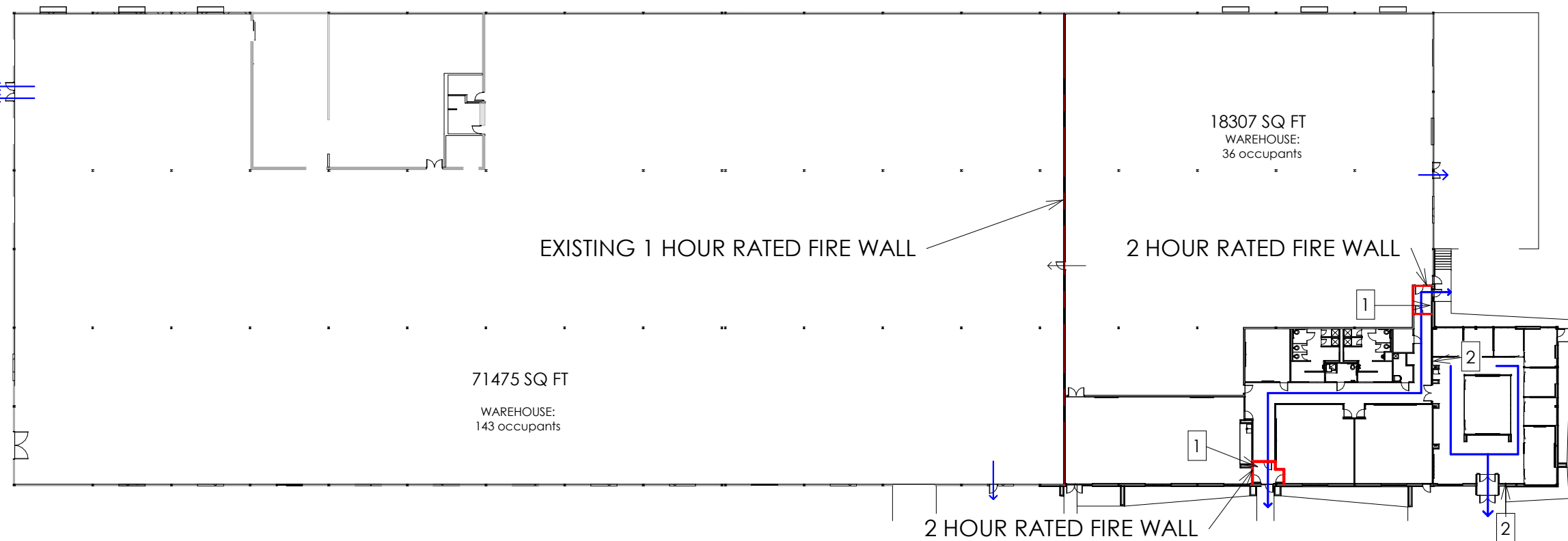
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LIFE SAFETY PLAN



- LIFE SAFETY PLAN LEGEND
- 1 FIRE-RATED SEMI-RECESSED FIRE EXTINGUISHER CABINET
 - 2 SEMI-RECESSED FIRE EXTINGUISHER CABINET

GENERAL NOTES

- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL ESTABLISH LOCATION OF ALL PARTITIONS. LARGER SCALE DRAWINGS HAVE PRIORITY OVER SMALLER SCALE DRAWINGS. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS BEFORE PROCEEDING WITH CONSTRUCTION.
- NOTES TO "ALIGN" SHALL MEAN TO ALIGN FINISHED FACE OF PARTITION UNLESS OTHERWISE NOTED AND SHALL HAVE PRIORITY OVER A DIMENSIONED LOCATION.
- PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING OR METAL BLOCKING AS SHOWN OR AS REQUIRED FOR ATTACHMENT OF WALL MOUNTED HARDWARE, TOILET ACCESSORIES, CASEWORK, MILLWORK, FINISH CARPENTRY AND WHEREVER ELSE IT MAY BE REQUIRED FOR THE SECURE ATTACHMENT OF ADJOINING WORK REFER TO SPECIFICATION SECTION 06100 FOR SPECIFICS ON WOOD BLOCKING.
- PLAN DIMENSIONS SHOWN ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE ON DETAILS.
- LIGHT SWITCHES MAY BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR IN ORDER TO COMPLY WITH ADA REQUIREMENTS.
- INSTALL FLOOR & OVERHEAD TRACKS IN CONT. BEAD OF ACOUSTICAL SEALANT. INSTALL ELEC. BOXES ON OPPOSITE SIDES OF WALL 24" APART MIN. INSTALL ACOUSTIC BATT INSULATION BETWEEN STUDS AS REQUIRED TO ACHIEVE STC RATING PER PARTITION SCHEDULE. INSULATE BETWEEN STUDS AND HOLLOW METAL FRAMES-TYP FOR ALL.
- MAINTAIN FIRE RATING AT RECESSED PANELS AND CABINETS.
- CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND IN THE CONTRACT DOCUMENTS. WORK PERFORMED WITHOUT CLARIFICATION FROM ARCHITECT IS ENTIRELY AT CONTRACTOR'S RISK.

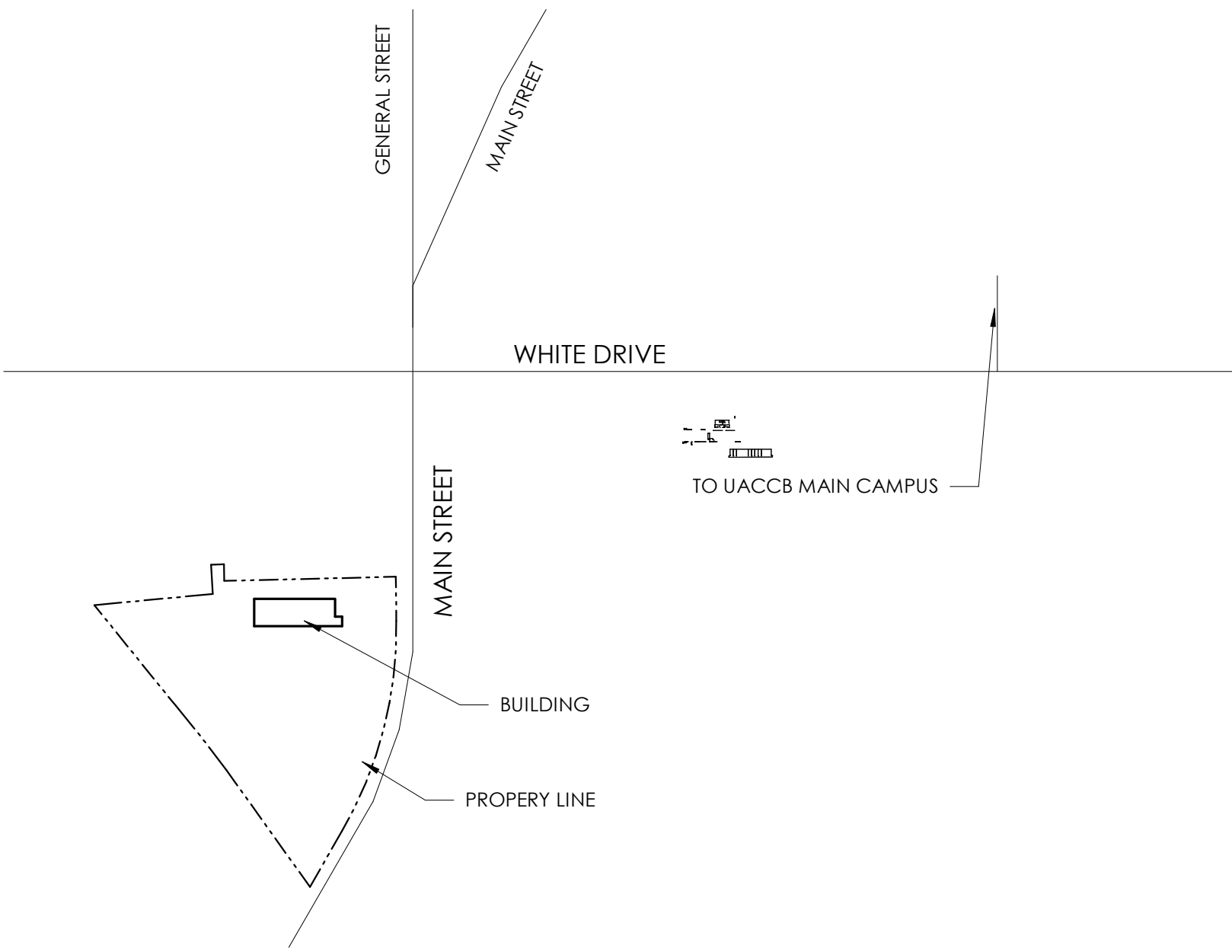
SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOBSITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

THE DUTY OF THE ARCHITECT IS TO CONDUCT CONSTRUCTION OBSERVATION OF THE CONTRACTOR'S PERFORMANCE AND IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, OR NEAR THE CONSTRUCTION SITE.

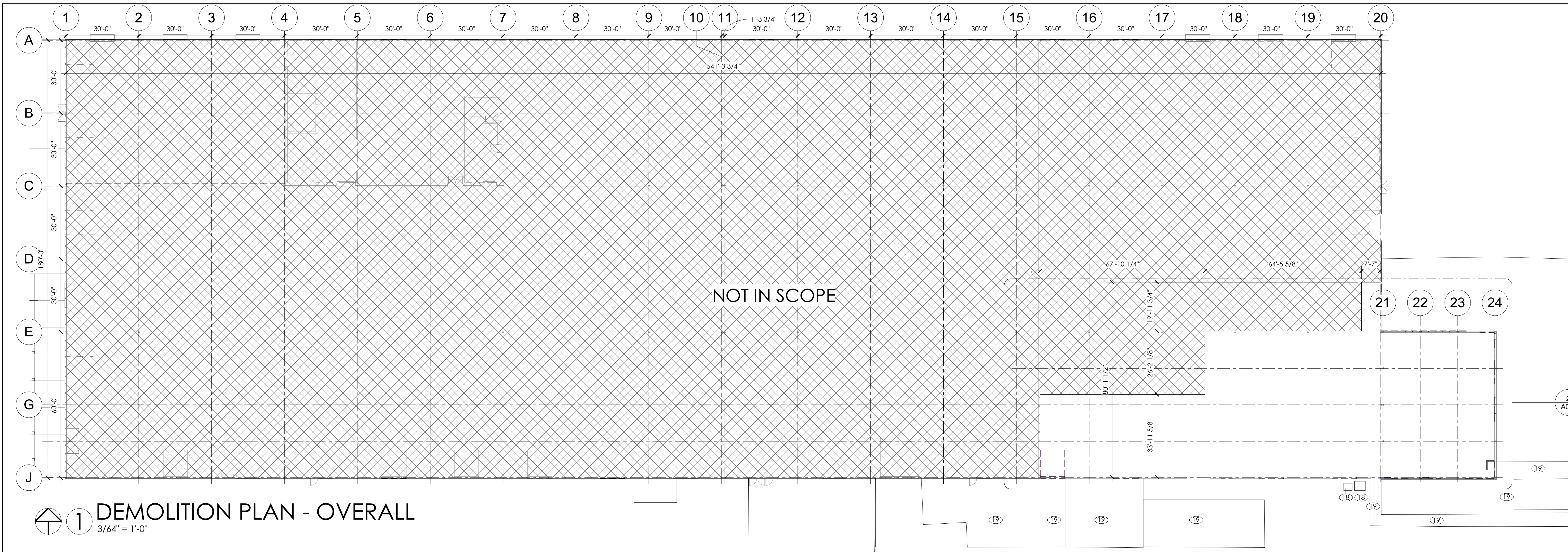
OWNERSHIP OF DOCUMENTS

THESE DOCUMENTS, AND THE DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICES, ARE THE PROPERTY OF FENNEL PURIFOY ARCHITECTS, P.L.C. AND ARE NOT TO BE USED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF FENNEL PURIFOY ARCHITECTS, P.L.C.

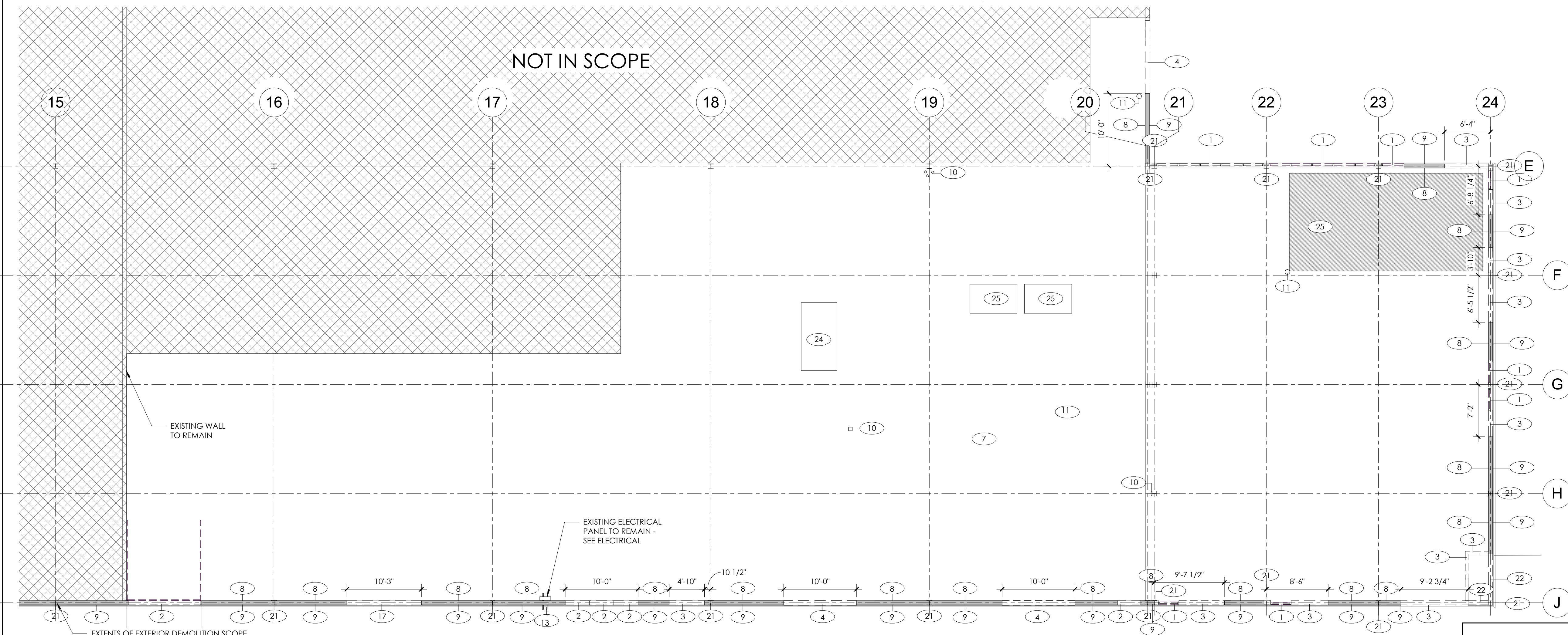


FENNEL PURIFOY ARCHITECTS
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1 DEMOLITION PLAN - OVERALL
3/64" = 1'-0"



2 DEMOLITION PLAN - ENLARGED
1/8" = 1'-0"

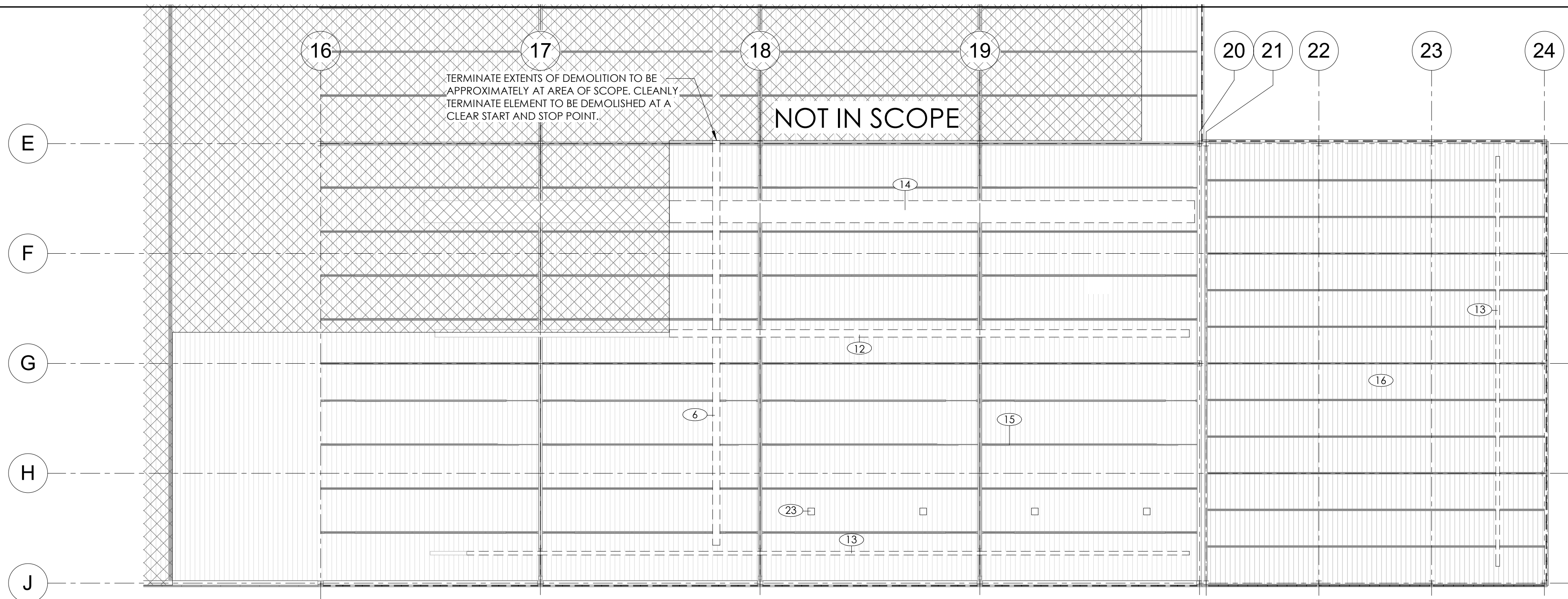
- DEMOLITION KEYNOTES**
- DEMOLISH WINDOW, INCLUDING METAL PANEL COVERING AND ANY ADDITIONAL COVERING
 - DEMOLISH DOOR AND FRAME SYSTEM
 - DEMOLISH PORTION OF CAST-IN-PLACE CONCRETE WALL
 - DEMOLISH ENTIRETY OF CMU BLOCK WALL
 - DEMOLISH CORRUGATED METAL PANEL AND ASSOCIATED FASTENERS
 - DEMOLISH CONDUIT, WIRING, ELECTRICAL EQUIPMENT, HANGERS AND WIRES, ETC.
 - DEMOLISH ALL FLOOR FINISH AND ADHESIVES DOWN TO SLAB, PREP TO RECEIVE NEW FLOOR FINISH
 - DEMOLISH ALL WALL FINISHES, MISCELLANEOUS WALL FASTENERS, AND OTHER ELEMENTS ON INTERIOR CAST CONCRETE WALLS
 - DEMOLISH MISCELLANEOUS WALL FASTENERS AND OTHER ELEMENTS ON EXTERIOR CAST CONCRETE WALLS; CLEAN OF DEBRIS
 - REMOVE ELECTRICAL FLOOR BOXES, WIRING, ELECTRICAL EQUIPMENT, ETC., CAP AS REQUIRED
 - REMOVE PLUMBING ELEMENTS, FLOOR DRAINS, PIPING, AND ALL ASSOCIATED ELEMENTS, CAP AS REQUIRED - SEE PLUMBING
 - DEMOLISH ALL FIRE SUPPRESSION PIPING, HANGERS, WIRES, AND ASSOCIATED ELEMENTS - SEE PLUMBING
 - DEMOLISH PIPING, HANGERS, WIRES, AND ASSOCIATED ELEMENTS - SEE PLUMBING
 - DEMOLISH HVAC DUCTS, HANGERS, WIRES, AND ASSOCIATED ELEMENTS
 - CLEAN DECKING AND JOISTS
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 - DEMOLISH CONCRETE PAVING
 - EXISTING STEEL CHANNEL TO REMAIN, REMOVE ANY MISCELLANEOUS FASTENERS AND PROTRUSIONS, REMOVE EXCESSIVE RUST
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 - REMOVE RAISED CONCRETE ELEMENTS AND SMOOTH IMPERFECTIONS TO LEVEL SURFACE OF CONCRETE SLAB
 - DEMOLISH DOWNSPOUTS

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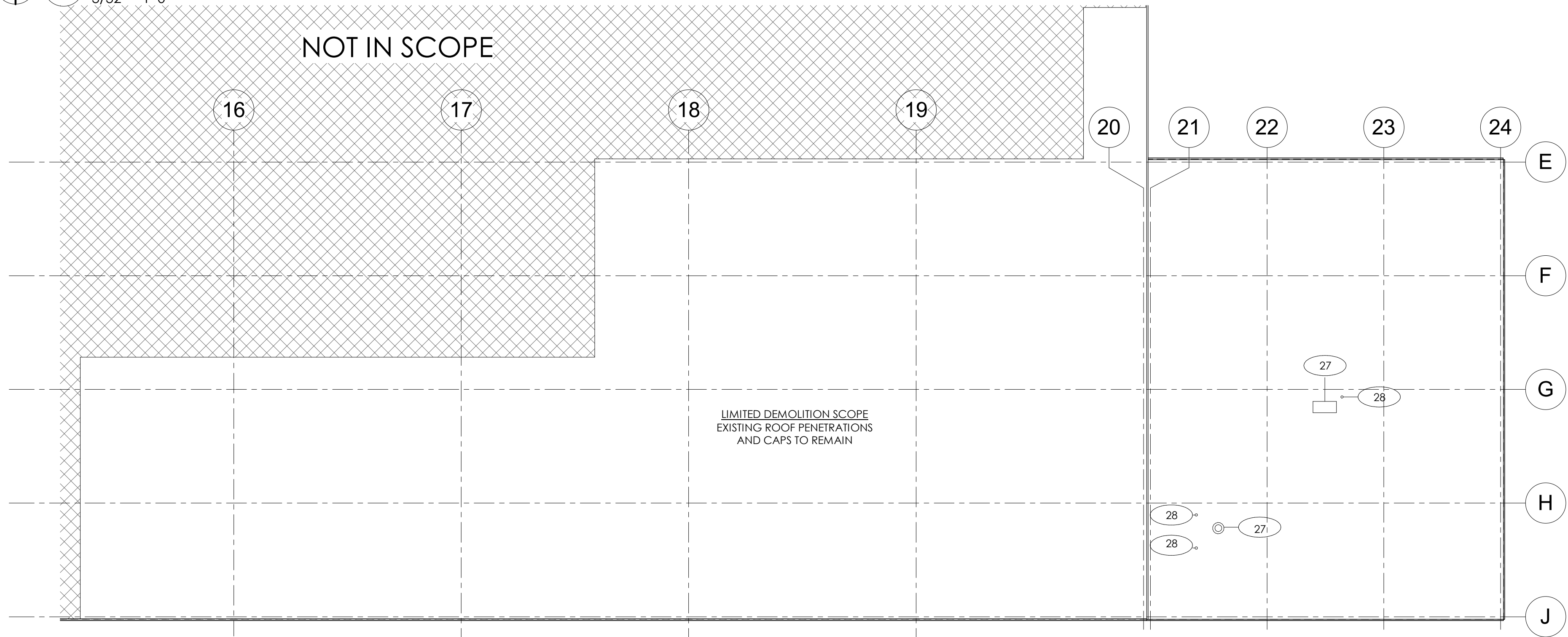
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 **1 DEMOLITION REFLECTED CEILING PLAN - ENLARGED**
3/32" = 1'-0"



 **2 DEMOLITION - ROOF PLAN**
3/32" = 1'-0"

DEMOLITION KEYNOTES

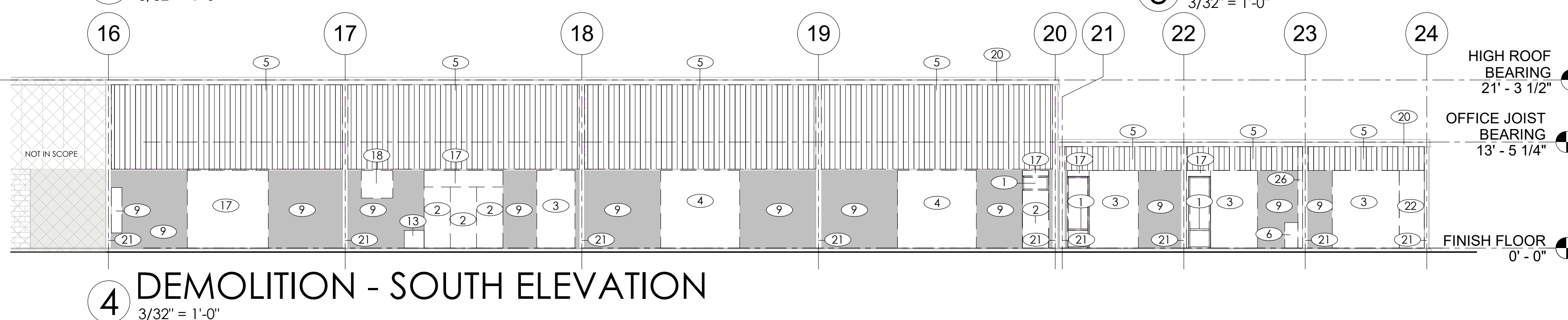
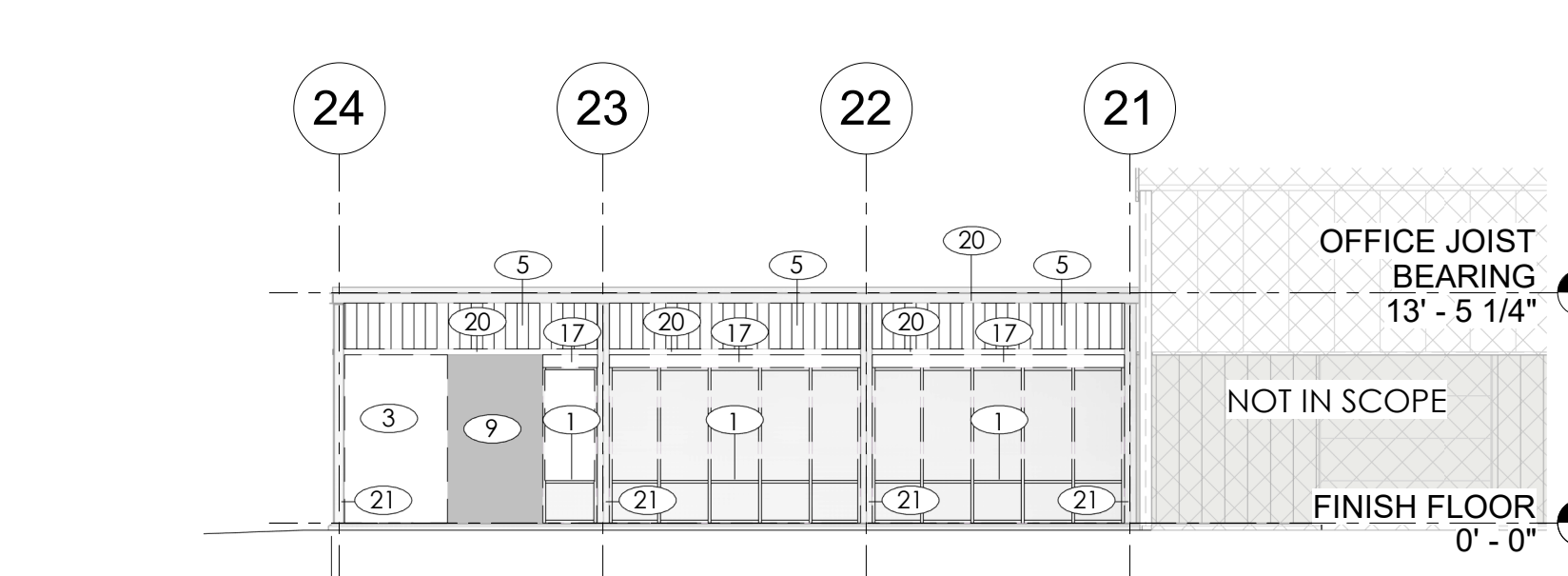
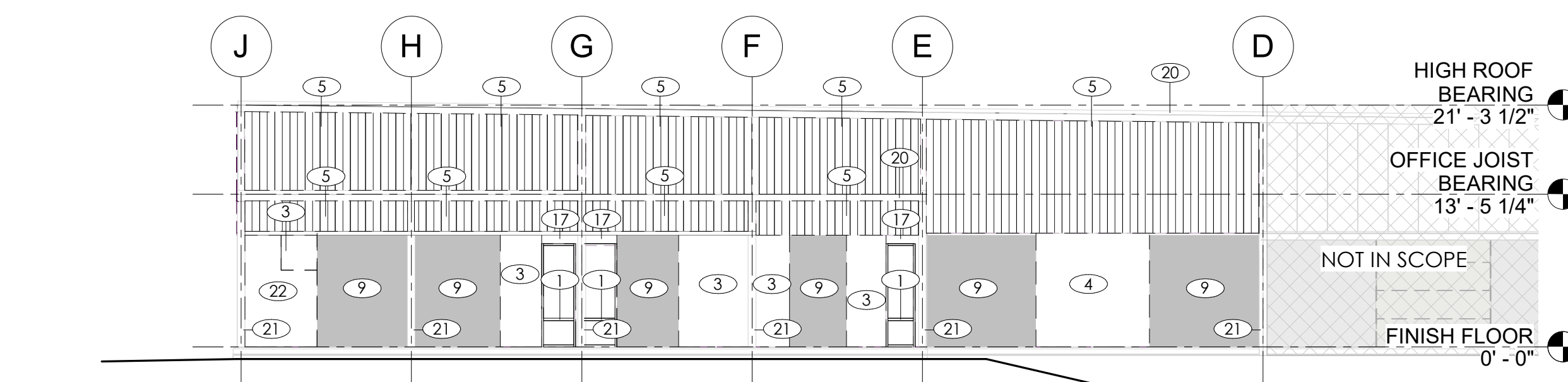
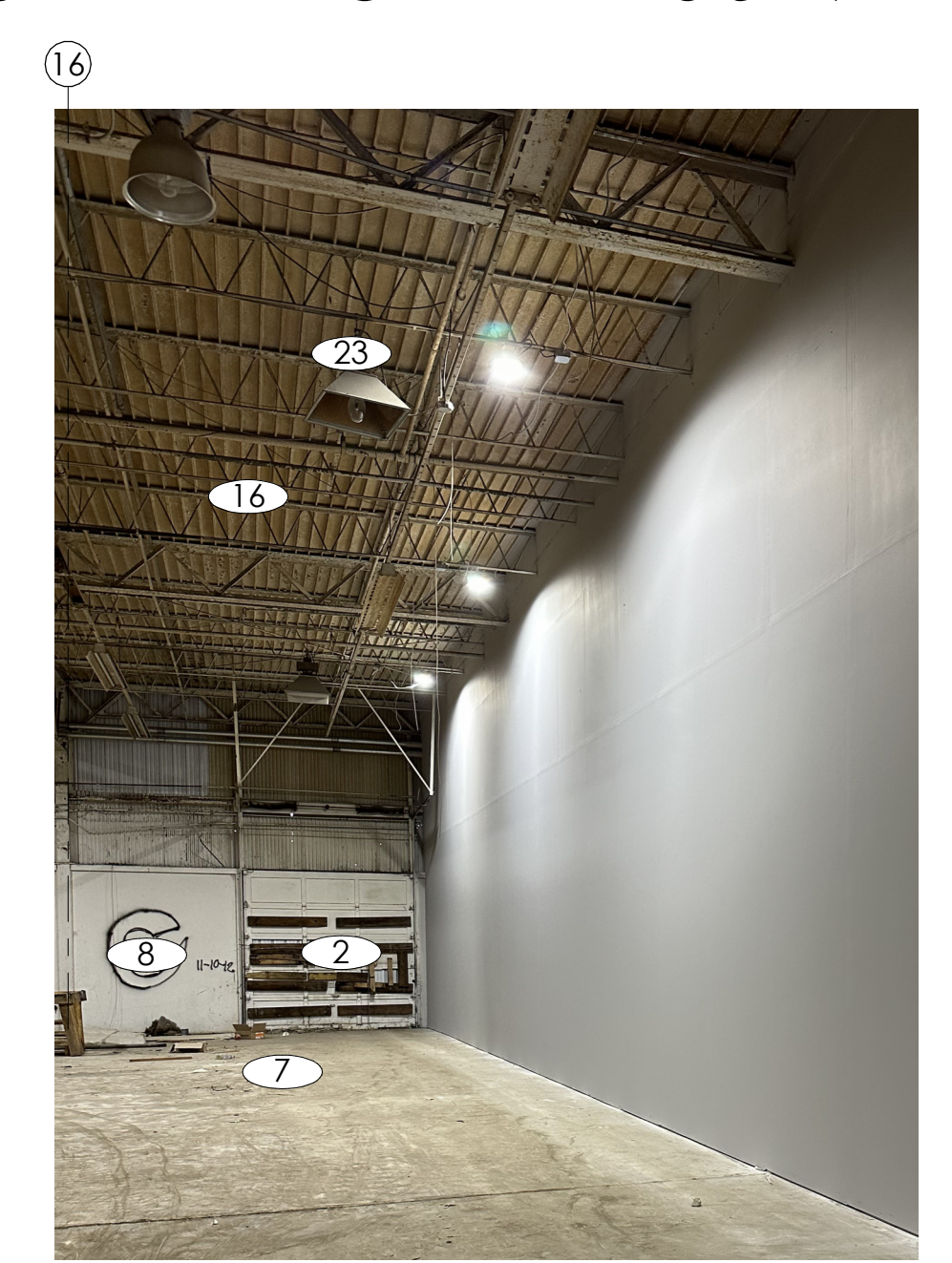
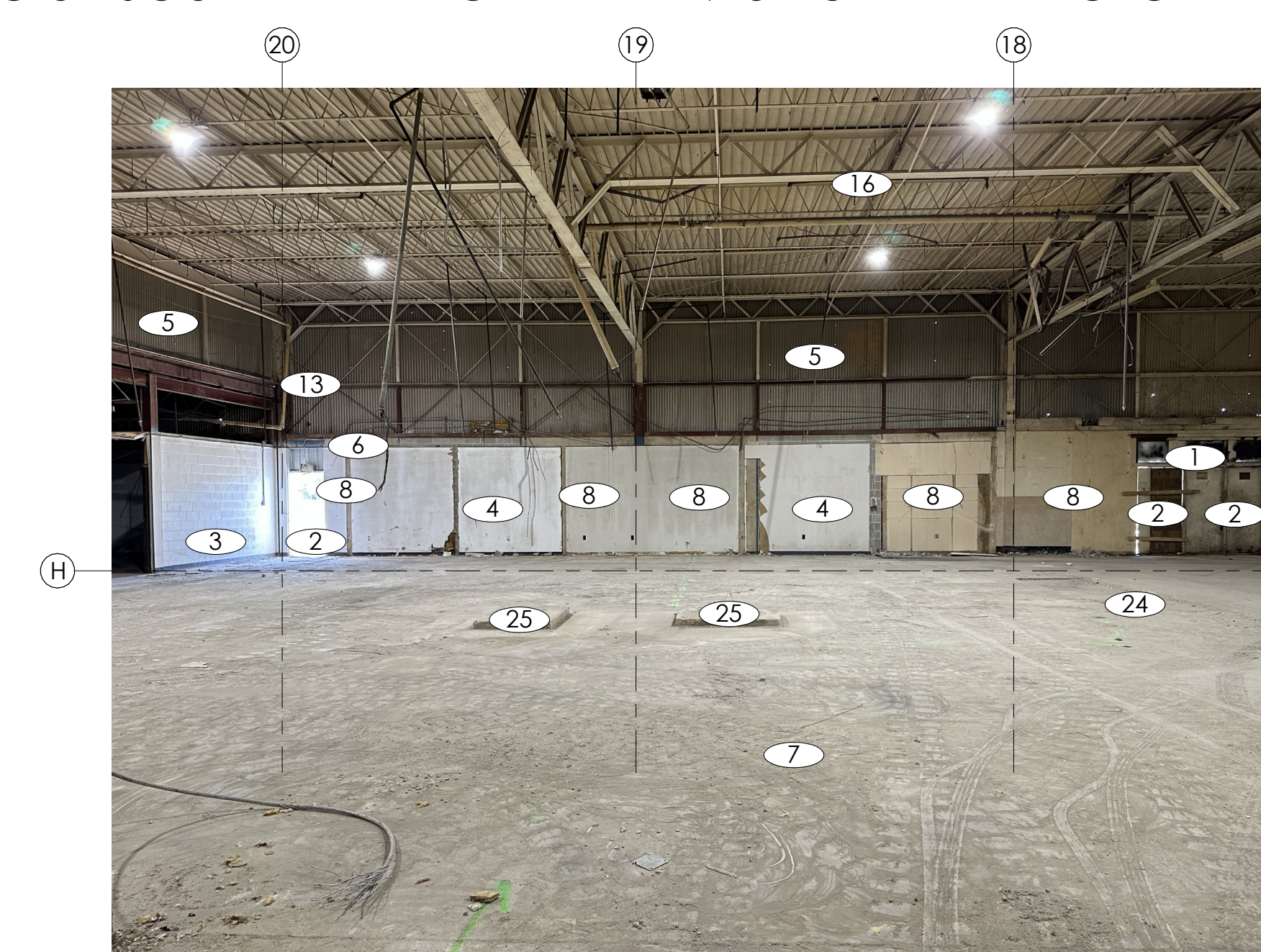
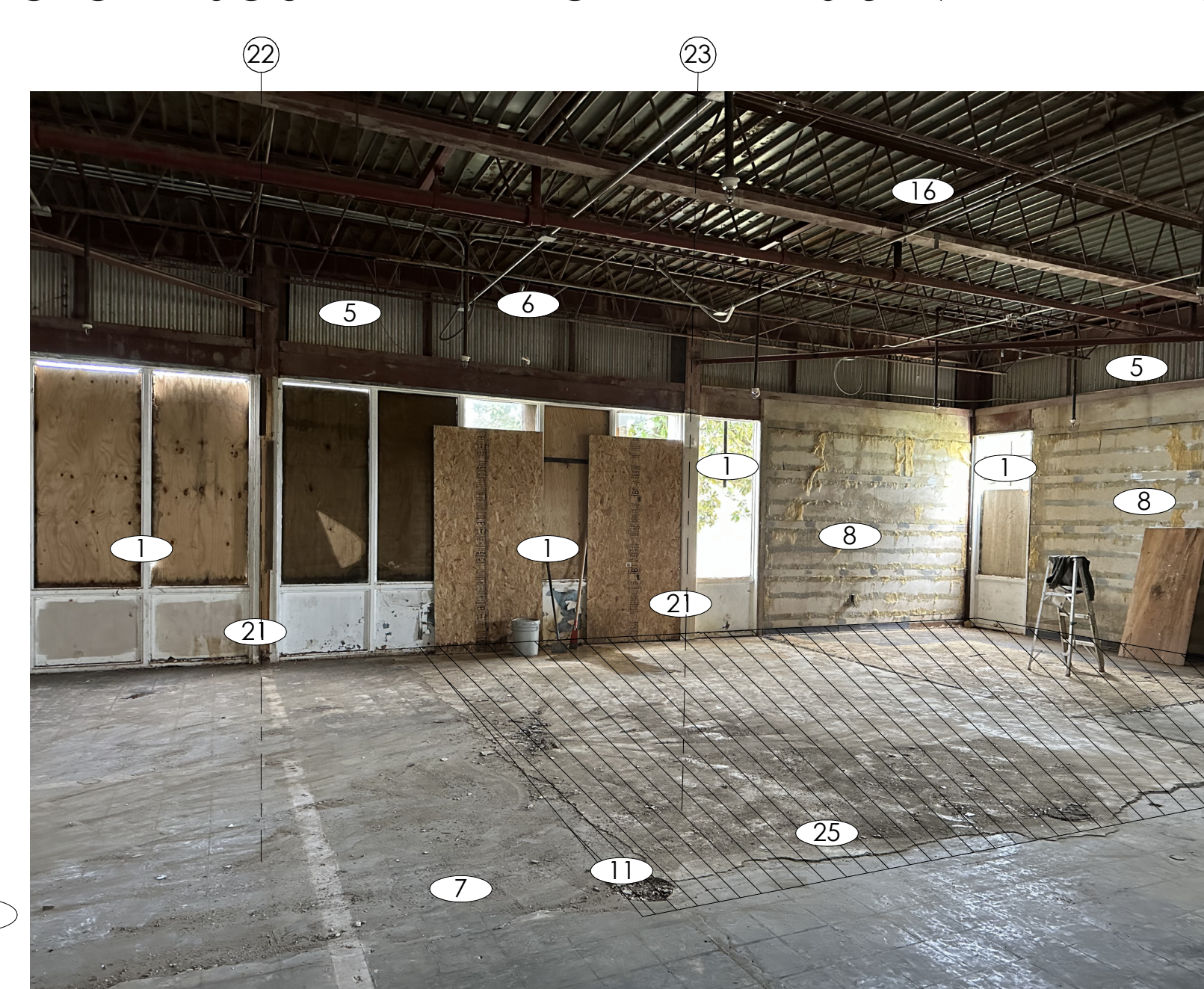
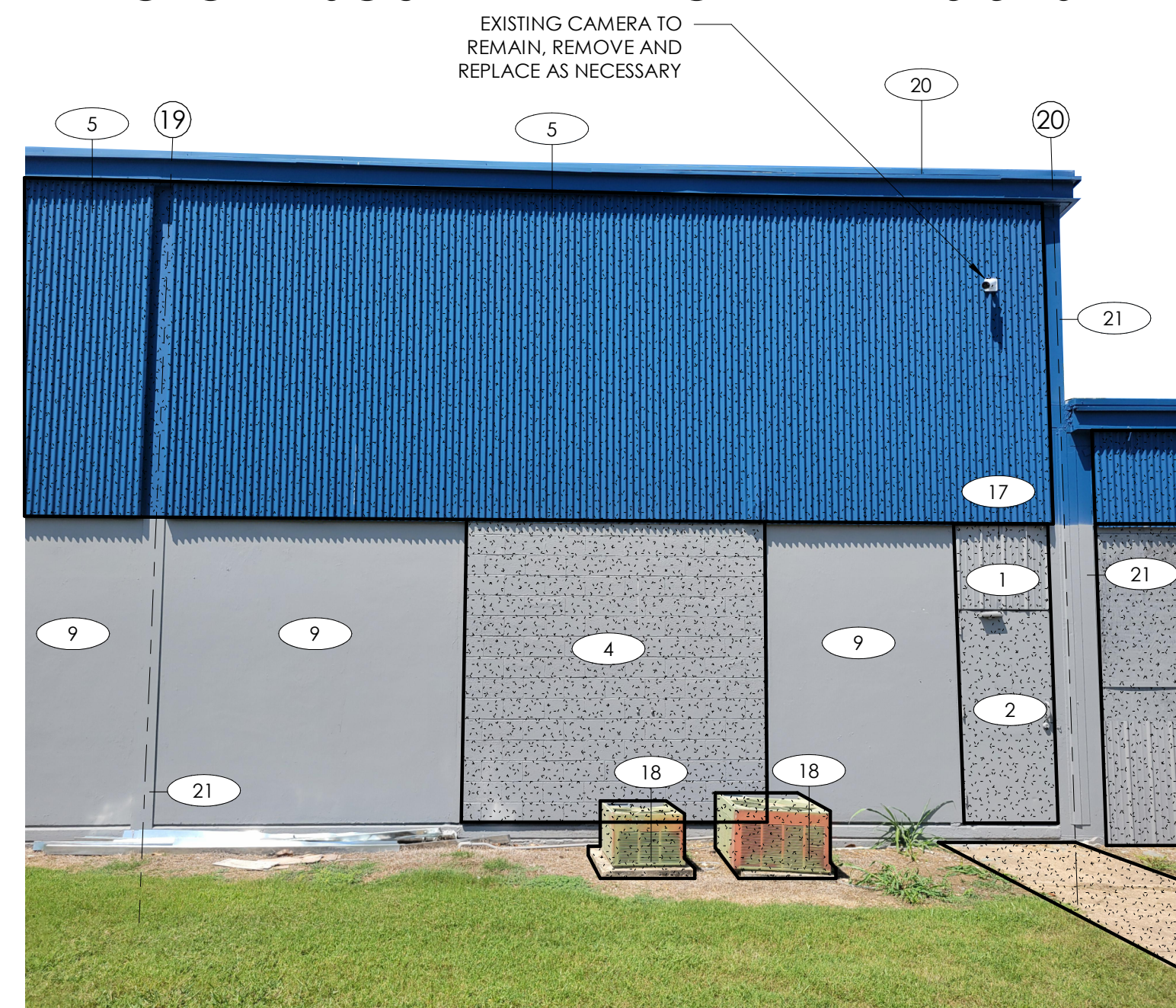
- 1 DEMOLISH WINDOW, INCLUDING METAL PANEL COVERING AND ANY ADDITIONAL COVERING
- 2 DEMOLISH DOOR AND FRAME SYSTEM
- 3 DEMOLISH PORTION OF CAST-IN-PLACE CONCRETE WALL
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- 11 REMOVE PLUMBING ELEMENTS, FLOOR DRAINS, PIPING, AND ALL ASSOCIATED ELEMENTS, CAP AS REQUIRED - SEE PLUMBING
- 12 DEMOLISH ALL FIRE SUPPRESSION PIPING, HANGERS, WIRES, AND ASSOCIATED ELEMENTS - SEE PLUMBING
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- 23 DEMOLISH LIGHT FIXTURES, HANGERS, CONDUITS AND WIRING, AND OTHER ASSOCIATED ELEMENTS
- 24 PATCH RECESSED AREAS OF CONCRETE SLAB
- 25 REMOVE RAISED CONCRETE ELEMENTS AND SMOOTH IMPERFECTIONS TO LEVEL SURFACE OF CONCRETE SLAB
- 26 DEMOLISH DOWNSPOUTS

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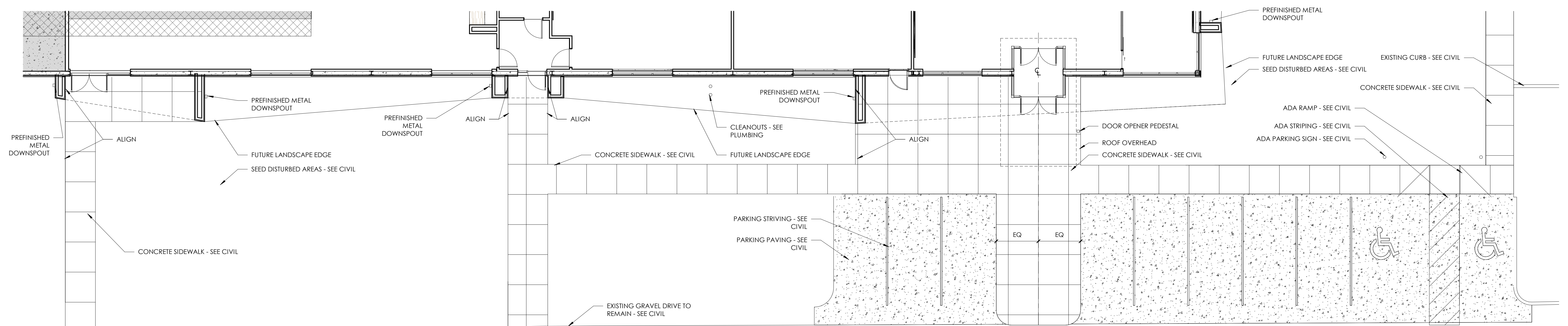
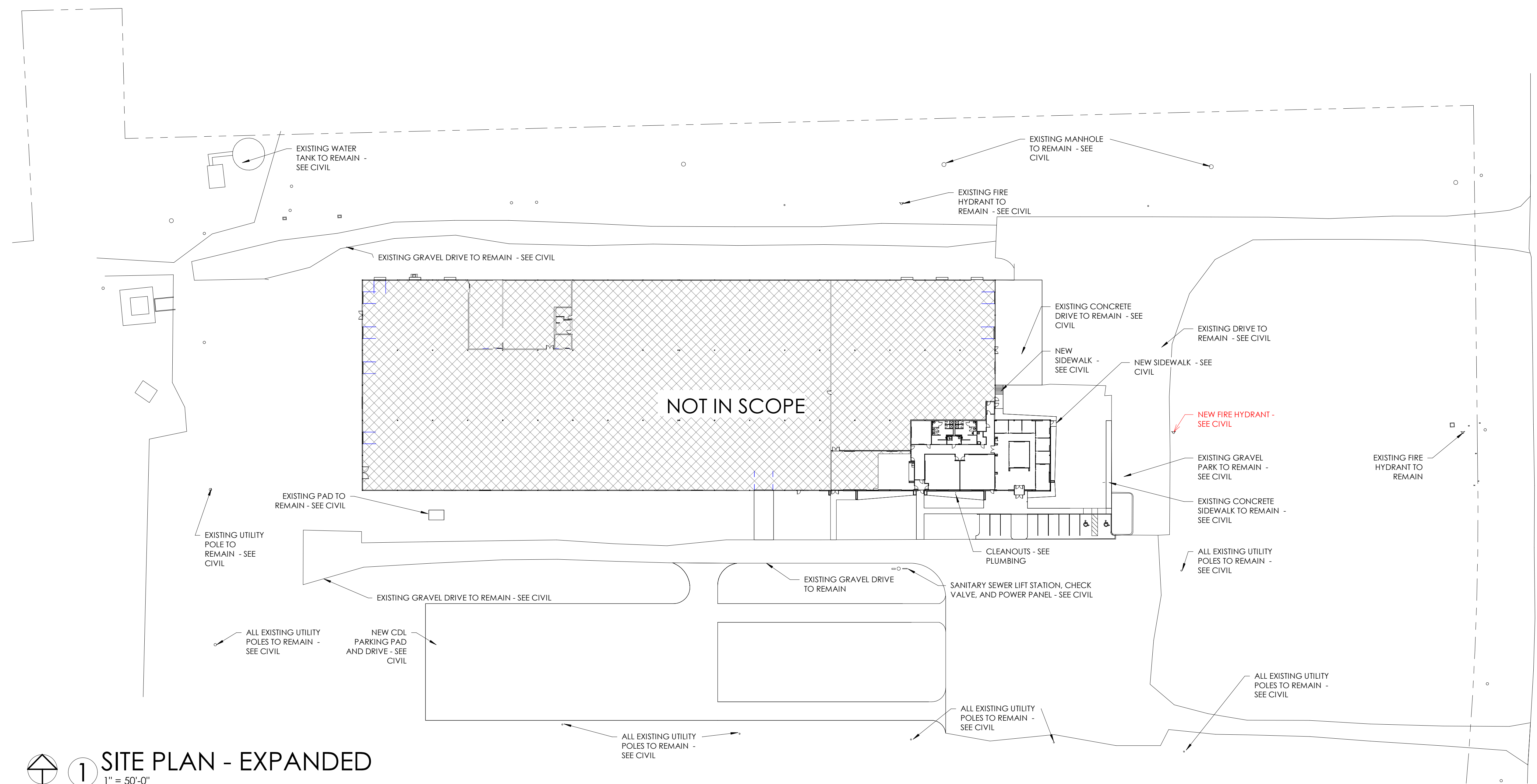




- ## DEMOLITION KEYNOTES

- (1) DEMOLISH WINDOW, INCLUDING METAL PANEL COVERING AND ANY ADDITIONAL COVERING
- (2) DEMOLISH DOOR AND FRAME SYSTEM
- (3) DEMOLISH PORTION OF CAST-IN-PLACE CONCRETE WALL
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- (6) DEMOLISH CONDUIT, WIRING, ELECTRICAL EQUIPMENT, HANGERS AND WIRES, ETC.
- (7) DEMOLISH ALL FIRE STOPPING AND ADHESIVES DOWN TO SLAB. PREP TO RECEIVE NEW FLOOR FINISH
- (8) DEMOLISH ALL WALL FINISHES, MISCELLANEOUS WALL FASTENERS, AND OTHER ELEMENTS ON INTERIOR CAST CONCRETE WALLS.
- (9) DEMOLISH MISCELLANEOUS WALL FASTENERS AND OTHER ELEMENTS ON EXTERIOR CAST CONCRETE WALLS: CLEAN OF DEBRIS
- (10) REMOVE ELECTRICAL FLOOR BOXES, WIRING, ELECTRICAL EQUIPMENT, ETC., CAP AS REQUIRED
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- (12) DEMOLISH ALL FIRE STOPPING PIPING, HANGERS, WIRES, AND ASSOCIATED ELEMENTS - SEE PLUMBING
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- (17) DEMOLISH OLD WALL FRAMING AND OLD METAL PANELS
- (18) REMOVE AIR CONDITIONER UNITS AND ASSOCIATED FRAMING AND/OR CONCRETE PADS
- (19) DEMOLISH CONCRETE PAVING
- (20) EXISTING STEEL CHANNEL TO REMAIN. REMOVE ANY MISCELLANEOUS FASTENERS AND PROTRUSIONS, REMOVE EXCESSIVE RUST
- (21) EXISTING STEEL COLUMN TO REMAIN. REMOVE ANY MISCELLANEOUS FASTENERS AND PROTRUSIONS, REMOVE EXCESSIVE RUST
- (22) DEMOLISH STEEL TUBE WALL SCREEN AND METAL DOORS
- (23) DEMOLISH LIGHT FIXTURES, HANGERS, CONDUITS AND WIRING, AND OTHER ASSOCIATED ELEMENTS
- (24) PATCH EXCESS AREAS OF CONCRETE SLAB
- (25) REMOVE RAISED CONCRETE ELEMENTS AND SMOOTH IMPERFECTIONS TO LEVEL SURFACE OF CONCRETE SLAB
- (26) DEMOLISH DOWNSPOUTS





04.18.2025 12:29:41 PM



1 OVERALL SITE PLAN

3/64" = 1'-0"

NOT IN SCOPE

EXISTING PAD TO
REMAIN - SEE CIVIL

EXISTING GRAVEL DRIVE TO REMAIN - SEE CIVIL

NEW CDL
PARKING PAD
AND DRIVE - SEE
CIVIL

ALL EXISTING UTILITY
POLES TO REMAIN -
SEE CIVIL

EXISTING GRAVEL DRIVE
TO REMAIN - SEE CIVIL

CLEANOUTS - SEE
PLUMBING

CONCRETE PAVING -
SEE CIVIL

SANITARY SEWER LIFT STATION, CHECK
VALVE, AND POWER PANEL - SEE CIVIL

ALL EXISTING UTILITY
POLES TO REMAIN -
SEE CIVIL

ALL EXISTING UTILITY
POLES TO REMAIN -
SEE CIVIL

EXISTING PLATFORM AND
STAIRS TO REMAIN - SEE
CIVIL

EXISTING CONCRETE
DRIVE TO REMAIN - SEE
CIVIL

EXISTING DRIVE TO
REMAIN - SEE CIVIL

NEW STEEL HANDRAIL -
SEE CIVIL
NEW STAIRS - SEE CIVIL
NEW SIDEWALK -
SEE CIVIL

NEW SIDEWALK -
SEE CIVIL

NEW SIDEWALK - SEE
CIVIL

EXISTING GRAVEL
PARK TO REMAIN -
SEE CIVIL

EXISTING CURB AND
GUTTER TO REMAIN -
SEE CIVIL

DOOR OPENER PEDESTAL

NEW CURB AND
GUTTER - SEE CIVIL

2

A1.0

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REVISIONS:

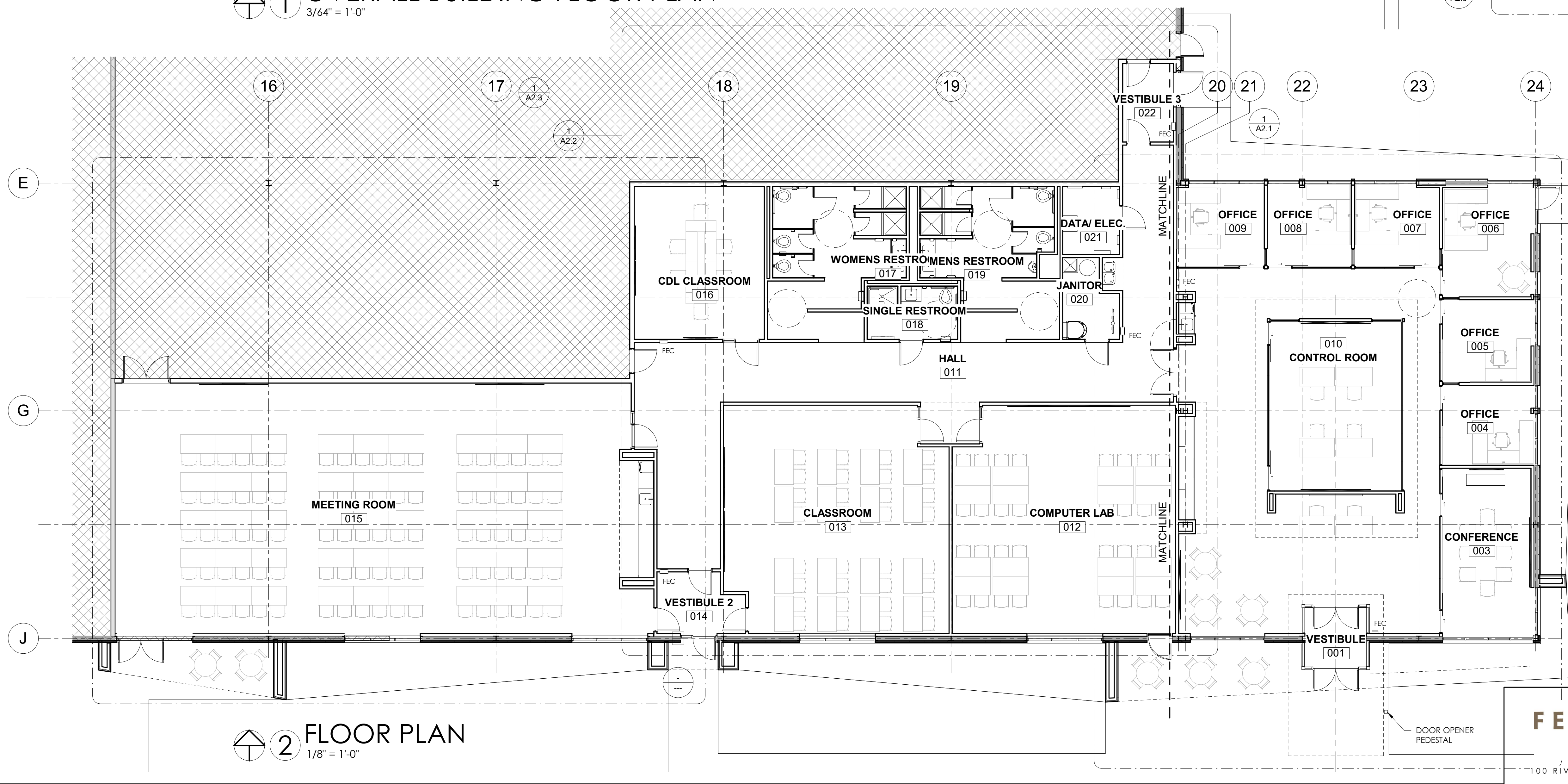
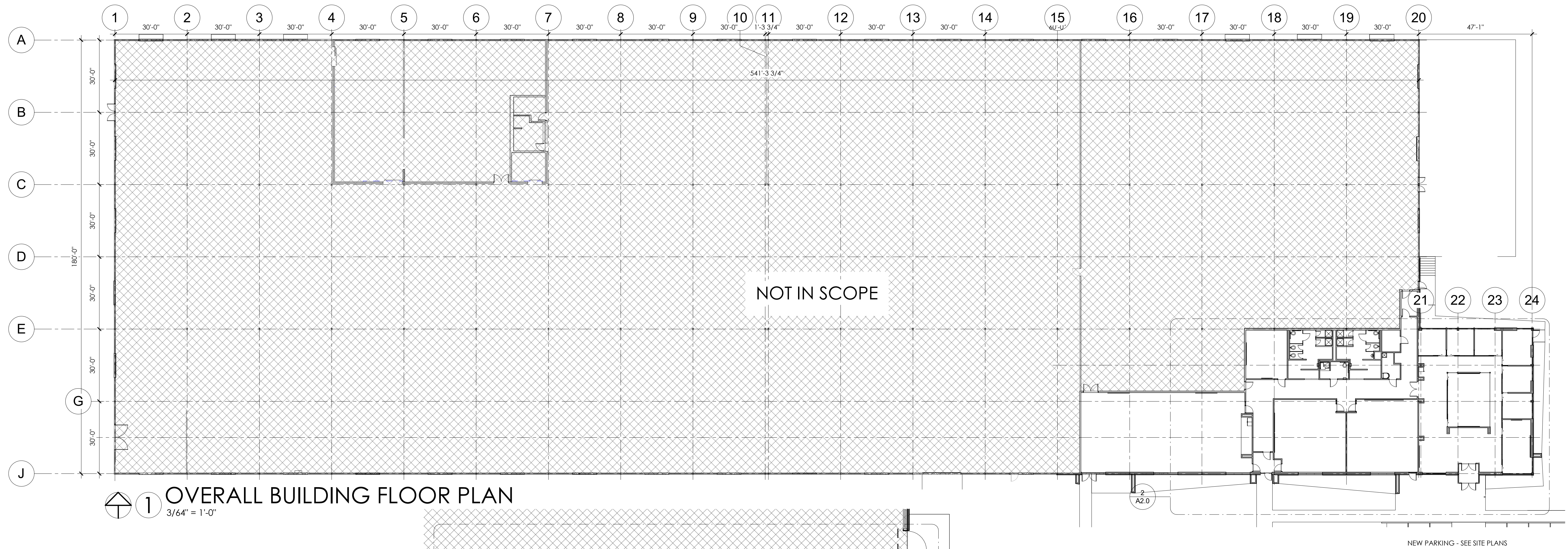
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SITE PLAN - ENLARGED

A1.1

UACCB GATEWAY CENTER FARM

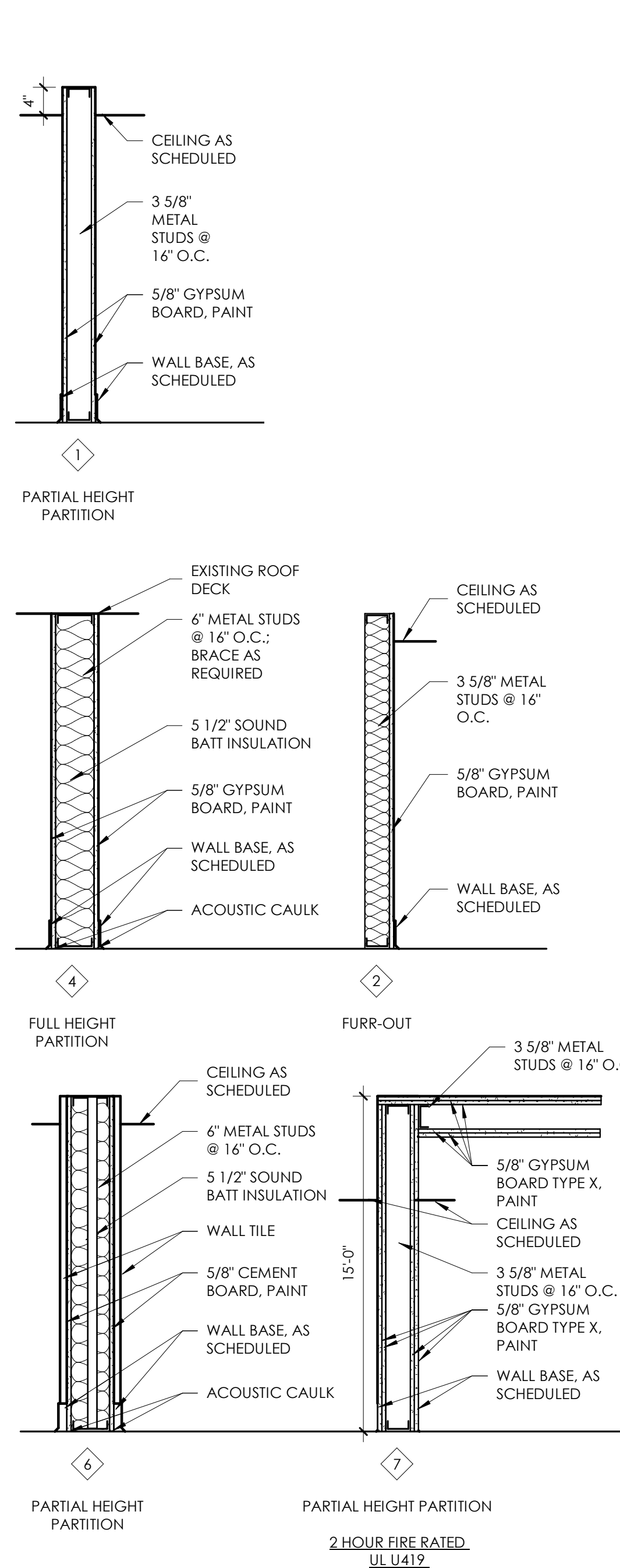
2210 E. Main Street, Batesville, AR



- GENERAL NOTES:
1. VERIFY ALL EXISTING CONDITIONS IN FIELD AND NOTIFY ARCHITECT IF DISCREPANCIES EXIST.
 2. ALL HALFTONE IS EXISTING TO REMAIN.

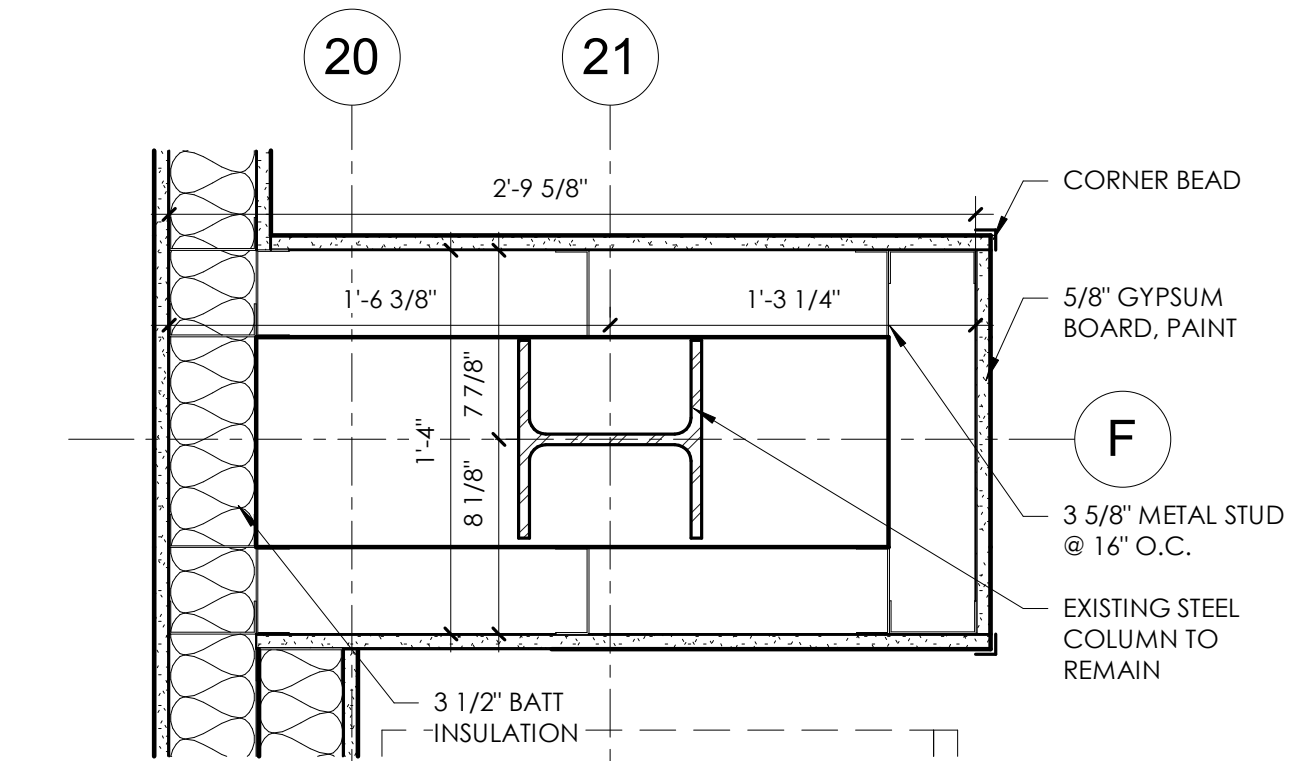
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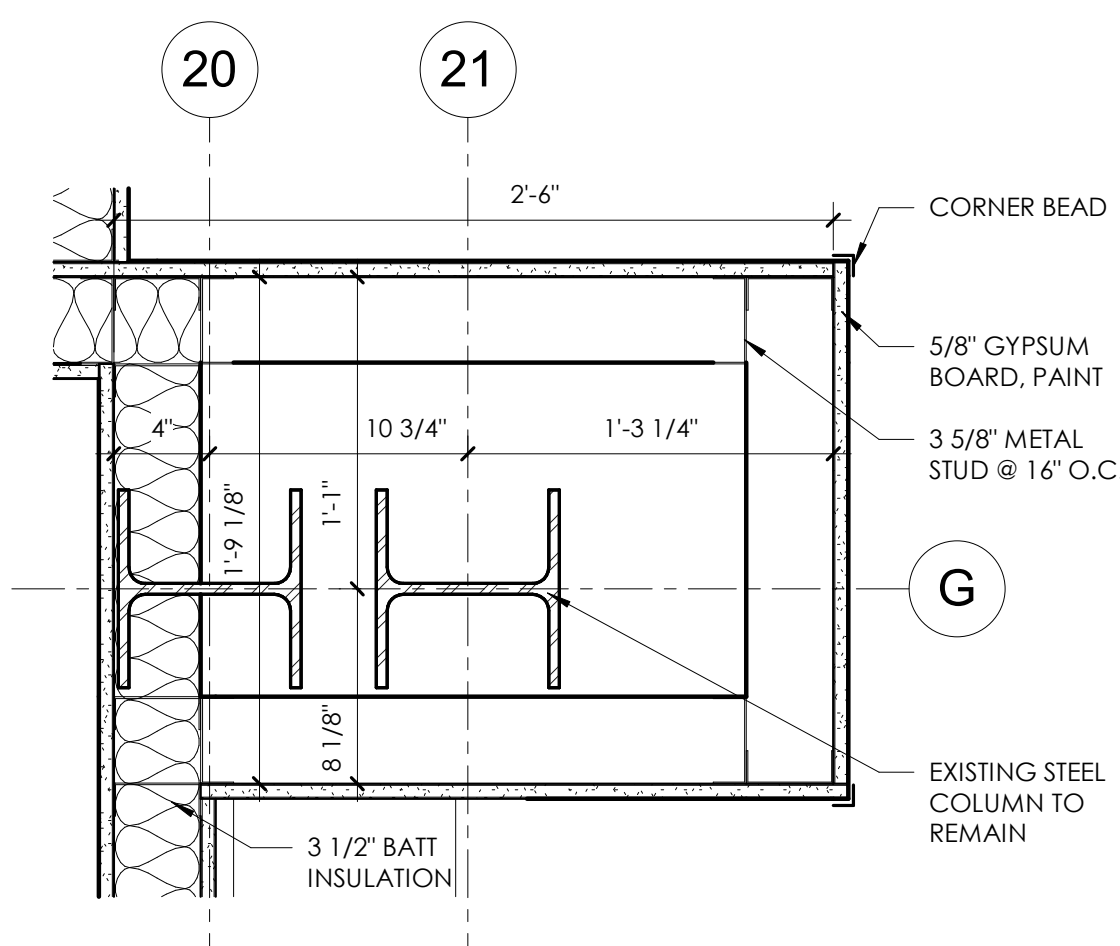


PARTITION TYPES
3/4" = 1'-0"

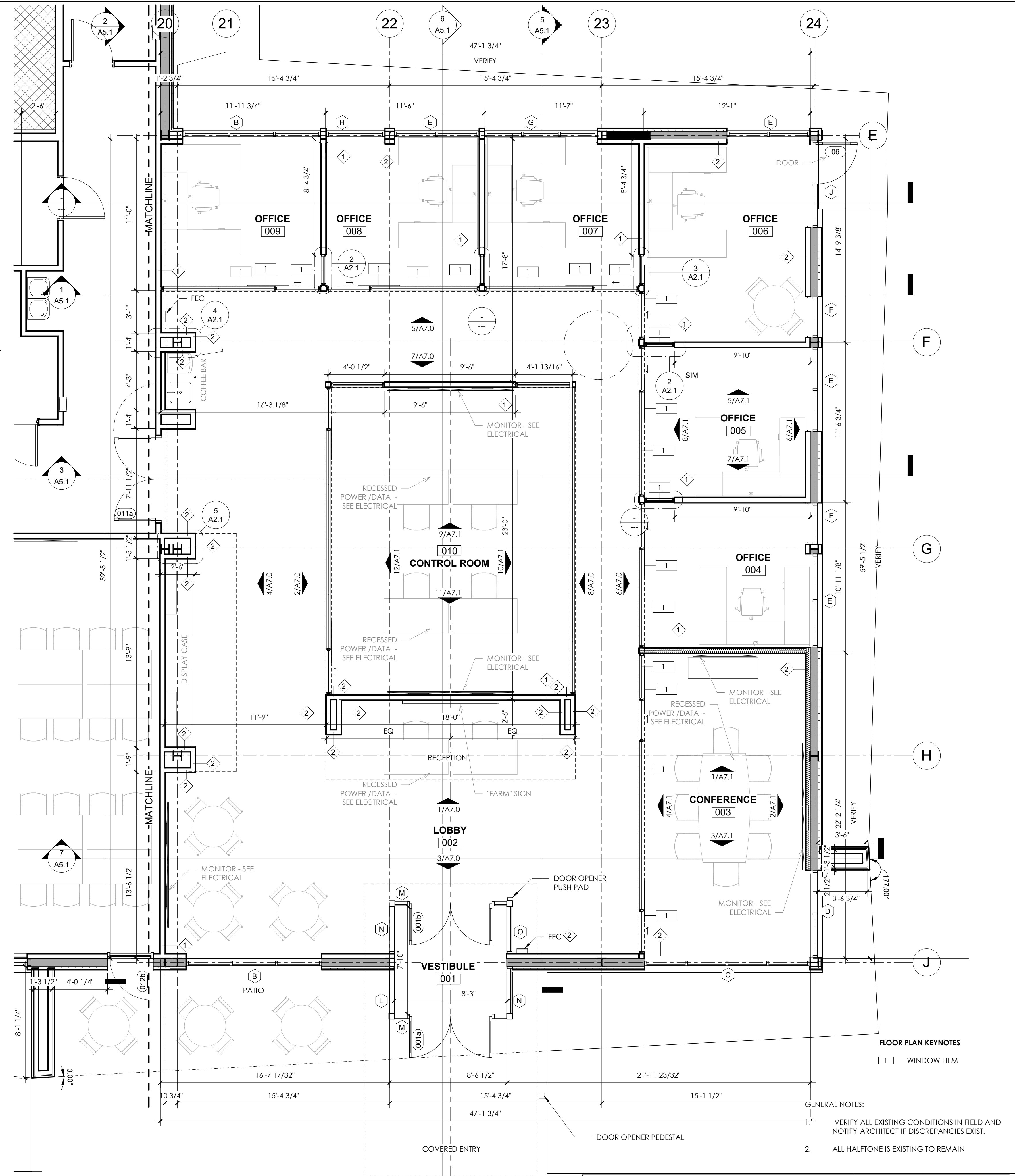
2 PLAN DETAIL
1 1/2" = 1'-0"



4 PLAN DETAIL
1 1/2" = 1'-0"



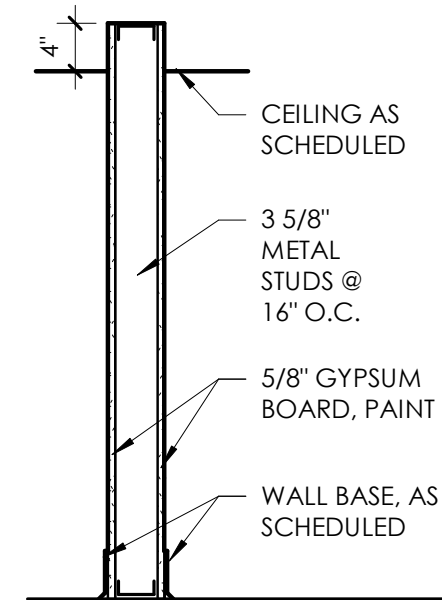
5 PLAN DETAIL
1 1/2" = 1'-0"



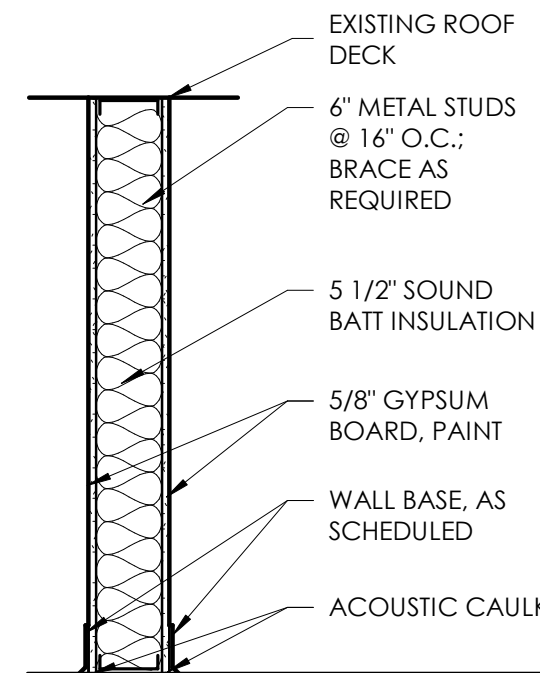
1 ENLARGED FLOOR PLAN - OFFICE
1/4" = 1'-0"

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100 RIVER BLUFF DRIVE, SUITE 320 - LITTLE ROCK, AR 72202
T 501.372.6734 - F 501.372.6736

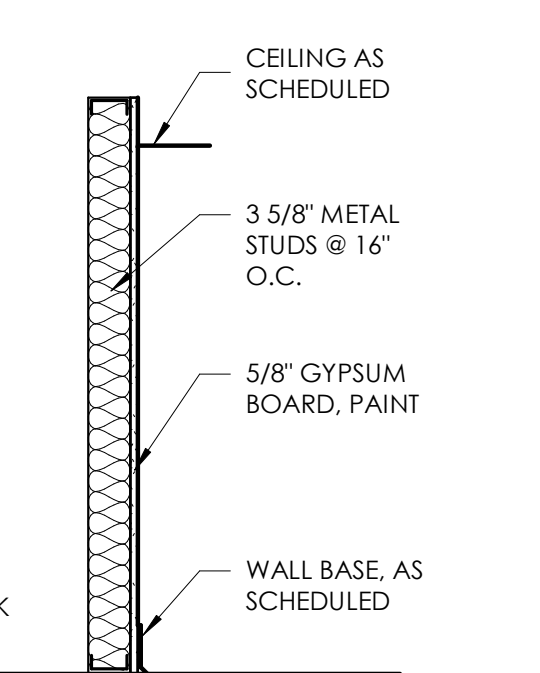




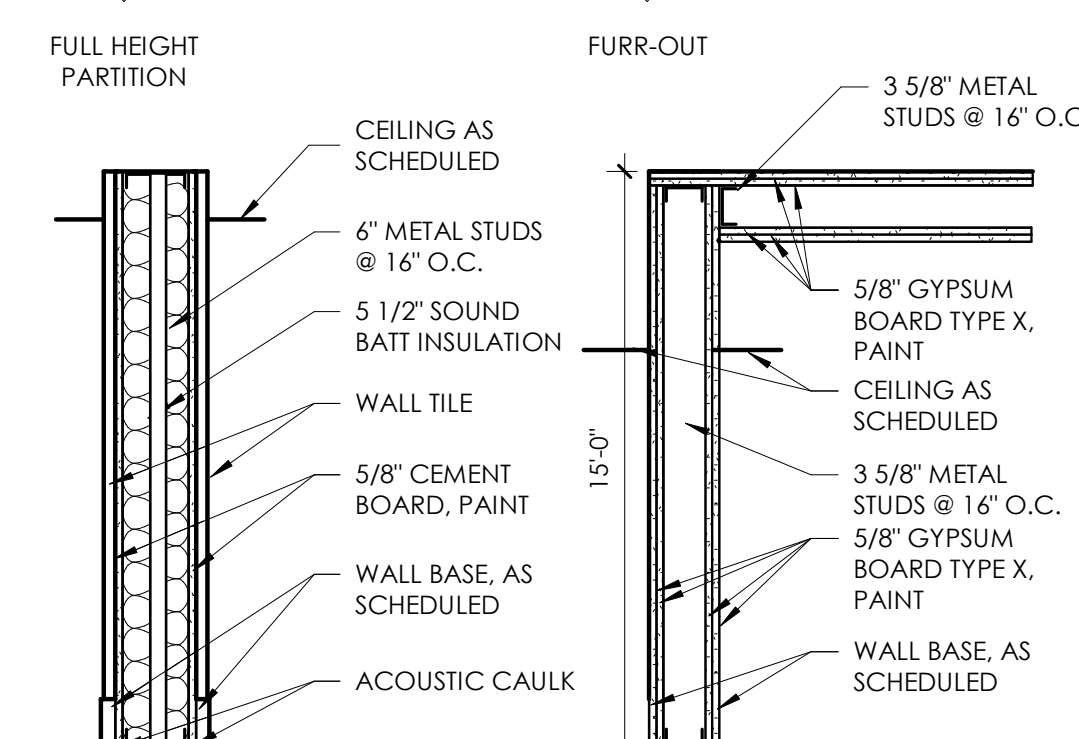
PARTIAL HEIGHT PARTITION



FULL HEIGHT PARTITION



FURR-OUT

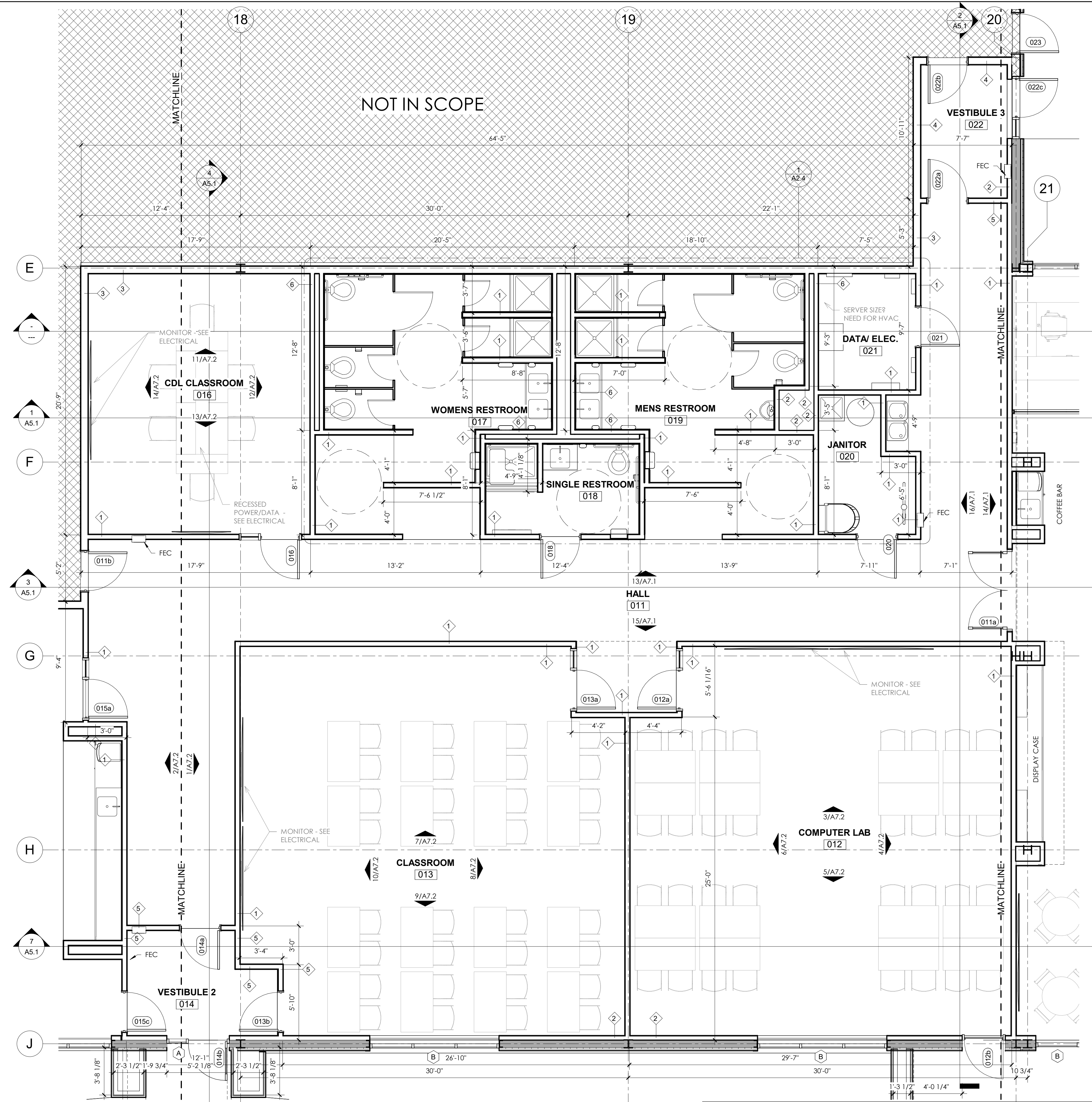


PARTIAL HEIGHT PARTITION

PARTIAL HEIGHT PARTITION
2 HOUR FIRE RATED
UL U419

PARTITION TYPES

3/4" = 1'-0"



1 ENLARGED FLOOR PLAN - CLASSROOM

1/4" = 1'-0"

GENERAL NOTES:

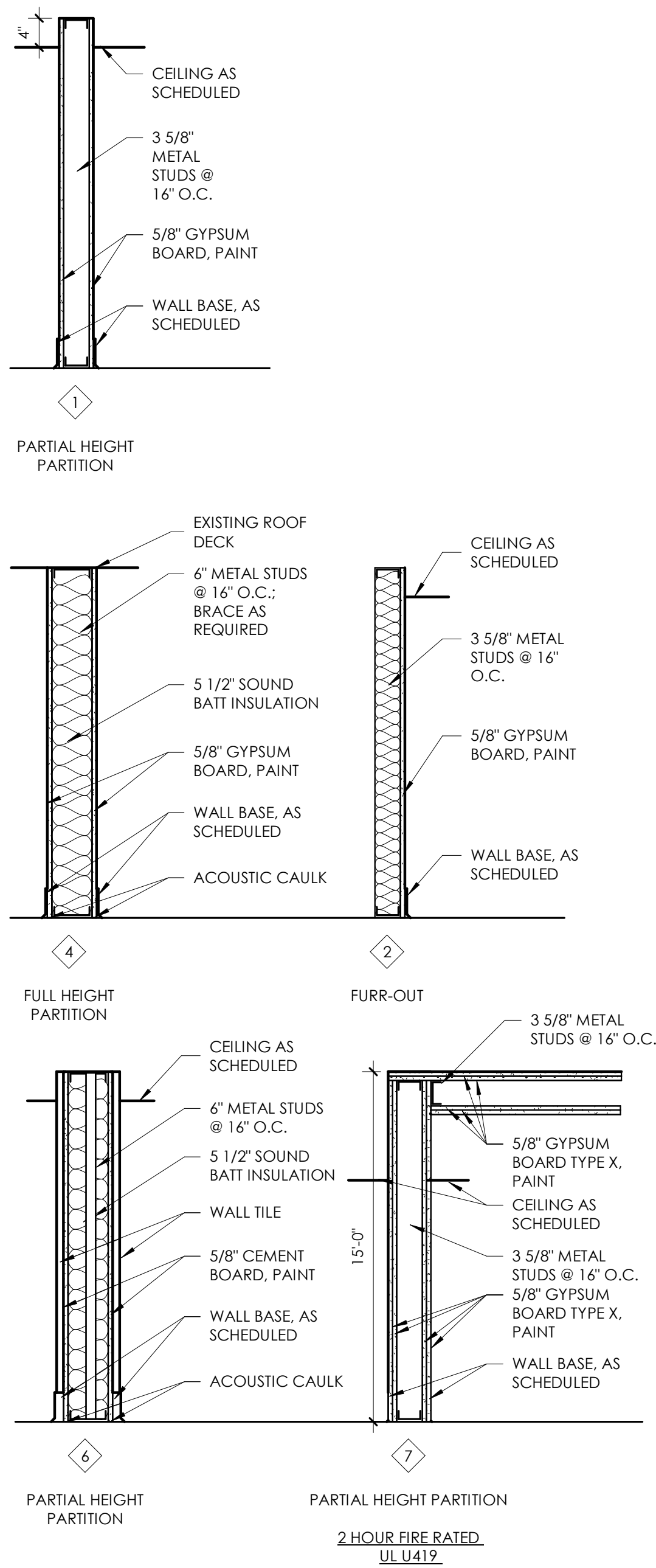
1. VERIFY ALL EXISTING CONDITIONS IN FIELD AND NOTIFY ARCHITECT IF DISCREPANCIES EXIST.
2. ALL HALFTONE IS EXISTING TO REMAIN

FENNELL | PURIFOY

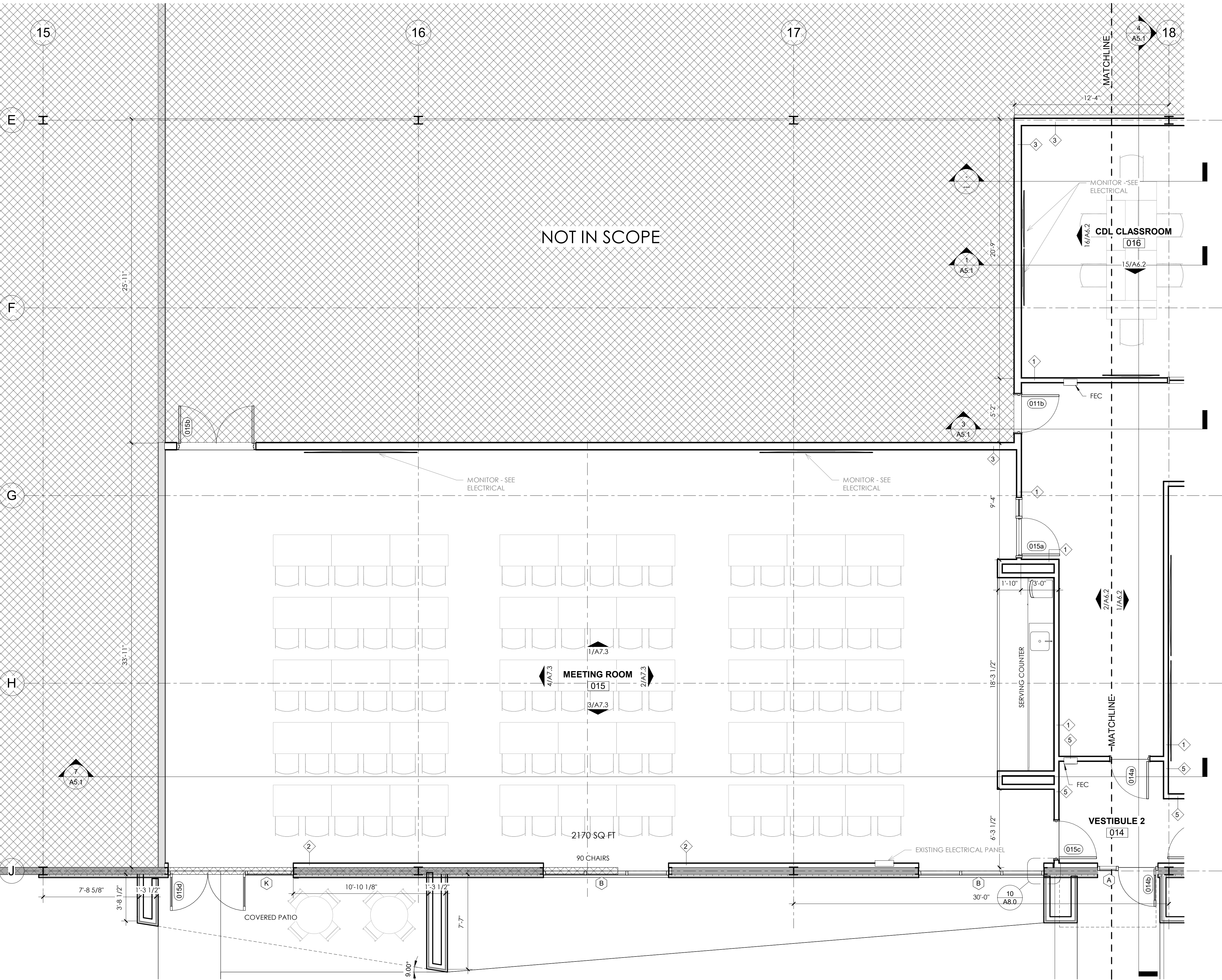
ARCHITECTS

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PARTITION TYPES
3/4" = 1'-0"



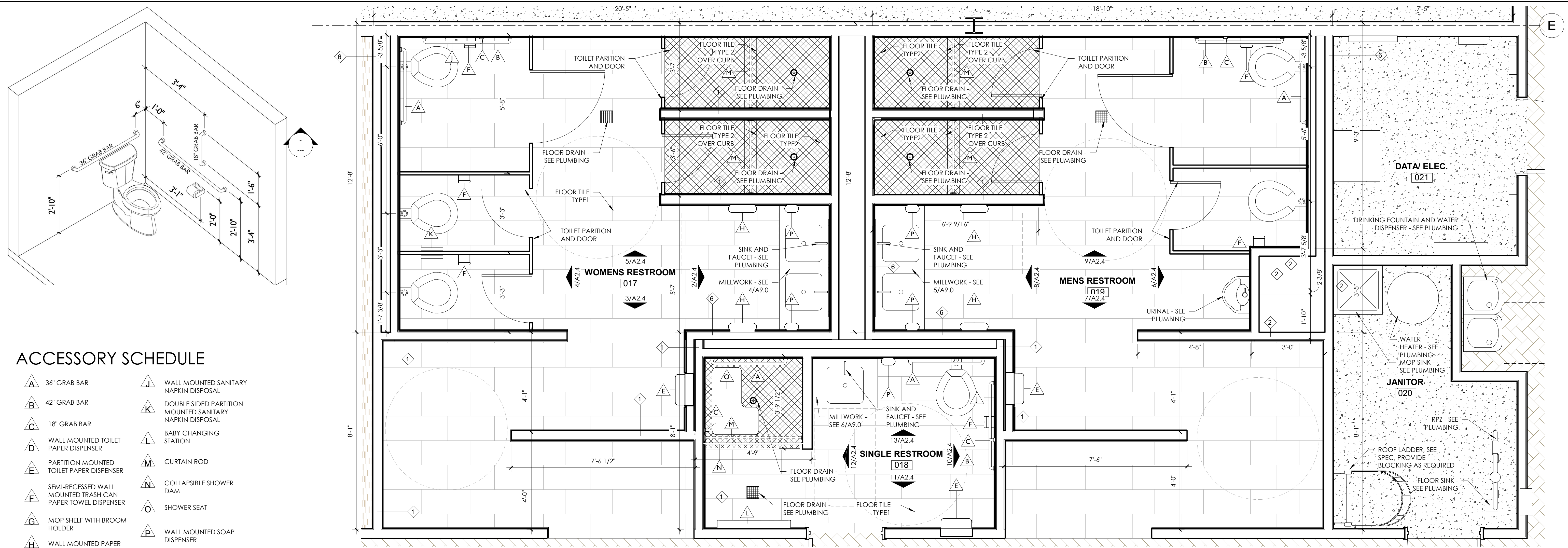
1 ENLARGED FLOOR PLAN - MEETING ROOM
1/4" = 1'-0"

FENNELL | PURIFOY
ARCHITECTS
100 RIVER BLUFF DRIVE, SUITE 320 · LITTLE ROCK, AR 72202
T 501.372.6734 · F 501.372.6736



UACCB GATEWAY CENTER FARM
2210 E. Main Street, Batesville, AR

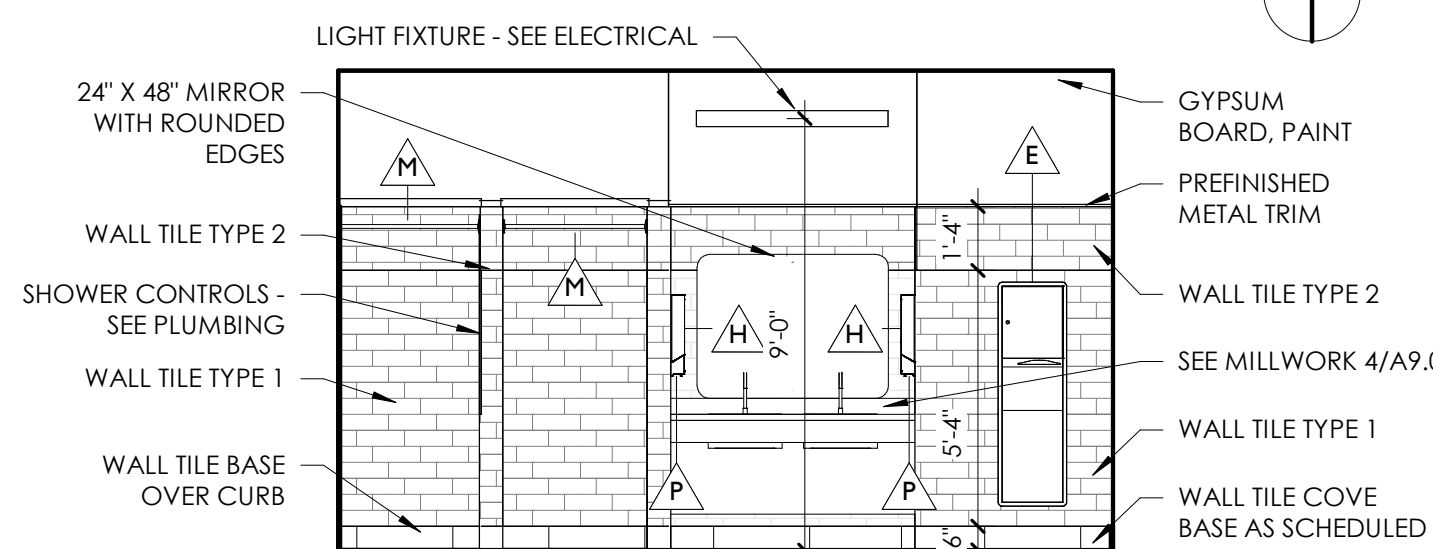
ENLARGED FLOOR PLAN - MEETING
100% CONSTRUCTION DRAWINGS
04.18.2025
REVISIONS:
A2.3



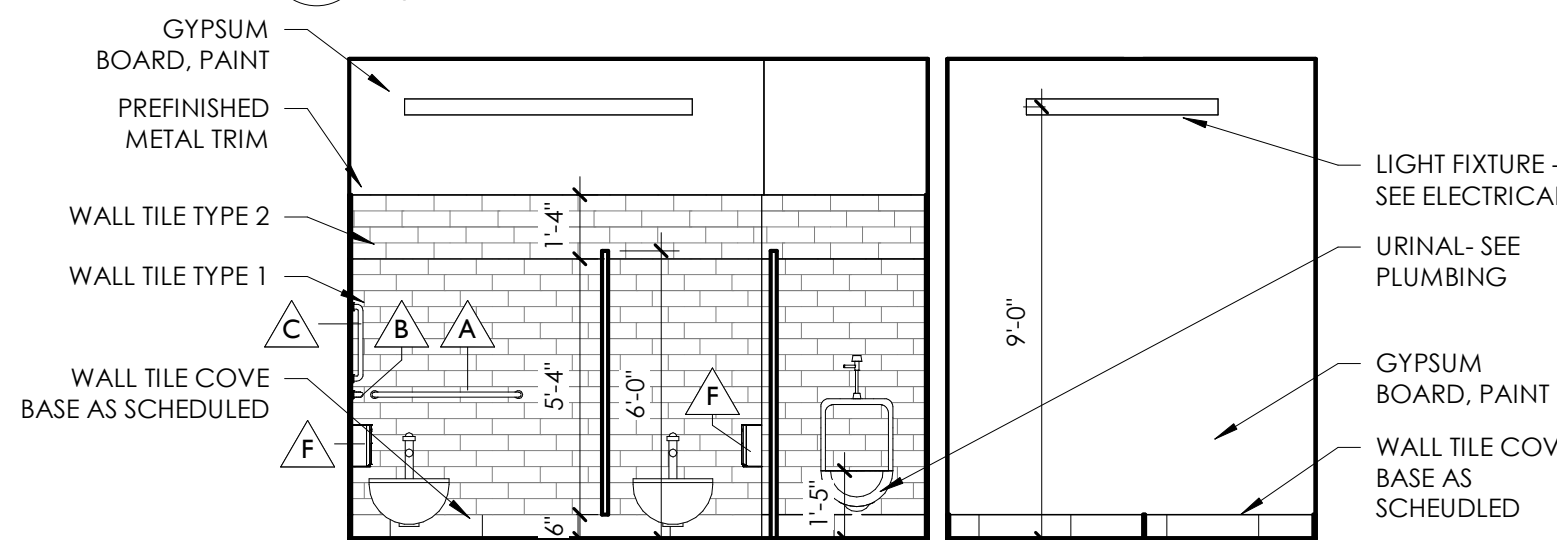
ACCESSORY SCHEDULE

- | | | | |
|---|--|---|---|
| A | 36" GRAB BAR | J | WALL MOUNTED SANITARY NAPKIN DISPOSAL |
| B | 42" GRAB BAR | K | DOUBLE SIDED PARTITION MOUNTED SANITARY NAPKIN DISPOSAL |
| C | 18" GRAB BAR | L | BABY CHANGING STATION |
| D | WALL MOUNTED TOILET PAPER DISPENSER | M | CURTAIN ROD |
| E | PARTITION MOUNTED TOILET PAPER DISPENSER | N | COLLAPSIBLE SHOWER DAM |
| F | SEMI-RECESSED WALL MOUNTED TRASH CAN PAPER TOWEL DISPENSER | O | SHOWER SEAT |
| G | MOP SHELF WITH BROOM HOLDER | P | WALL MOUNTED SOAP DISPENSER |
| H | WALL MOUNTED PAPER TOWEL DISPENSER | | |

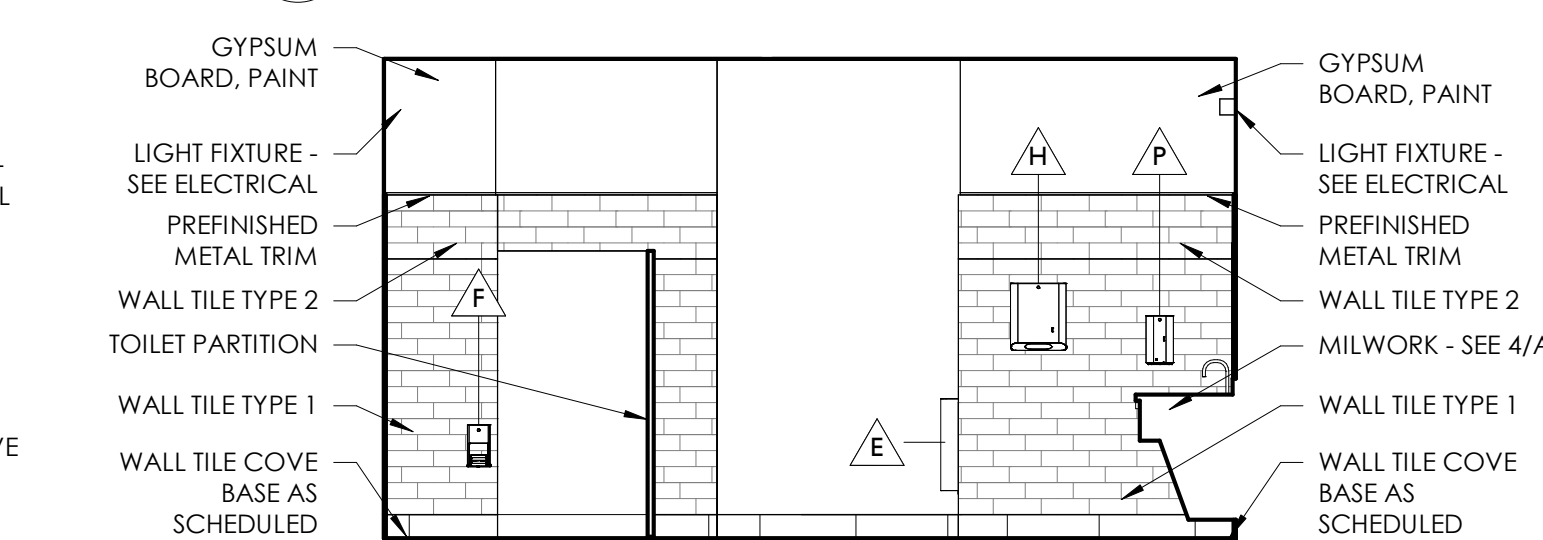
1 ENLARGED FLOOR PLAN - RESTROOM 1/2" = 1'-0"



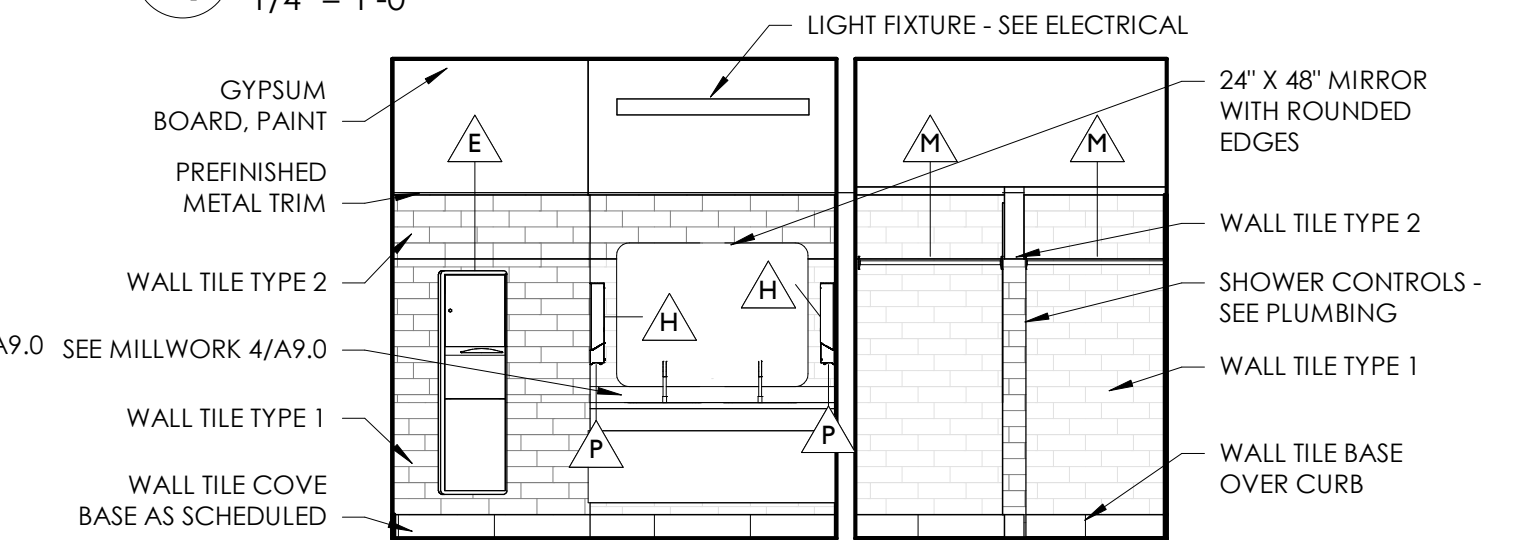
2 WOMENS RESTROOM - EAST 1/4" = 1'-0"



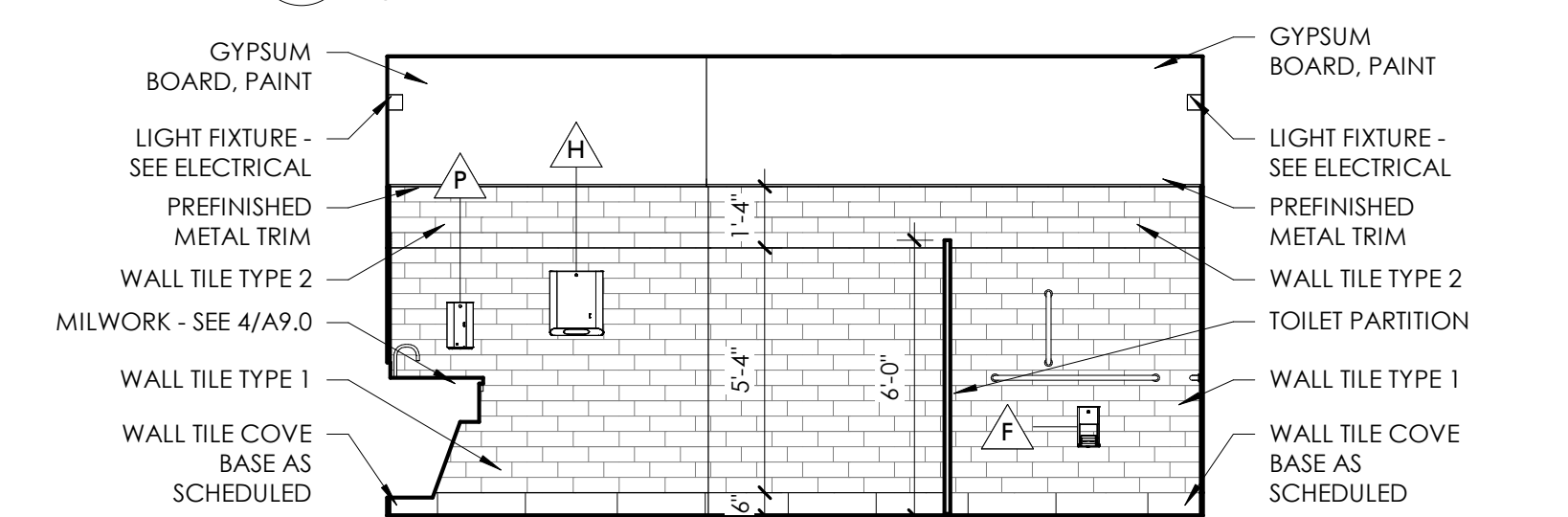
3 WOMENS RESTROOM - SOUTH 1/4" = 1'-0"



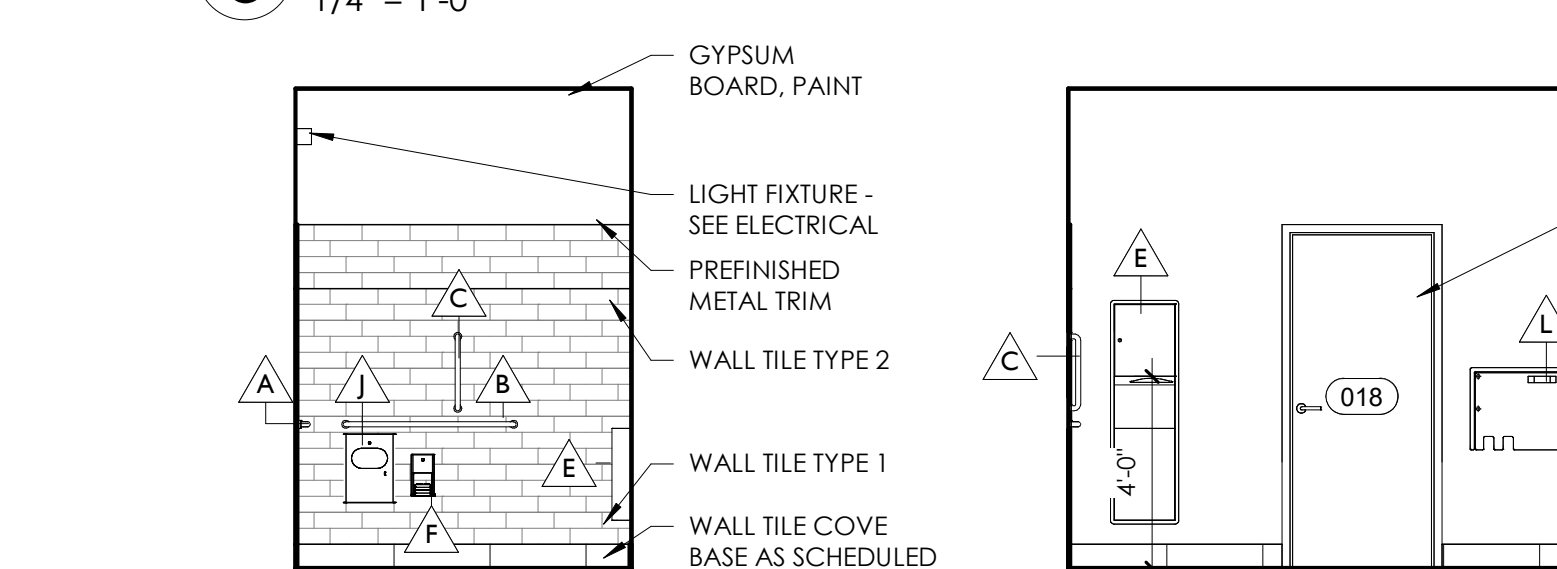
4 WOMENS RESTROOM - WEST 1/4" = 1'-0"



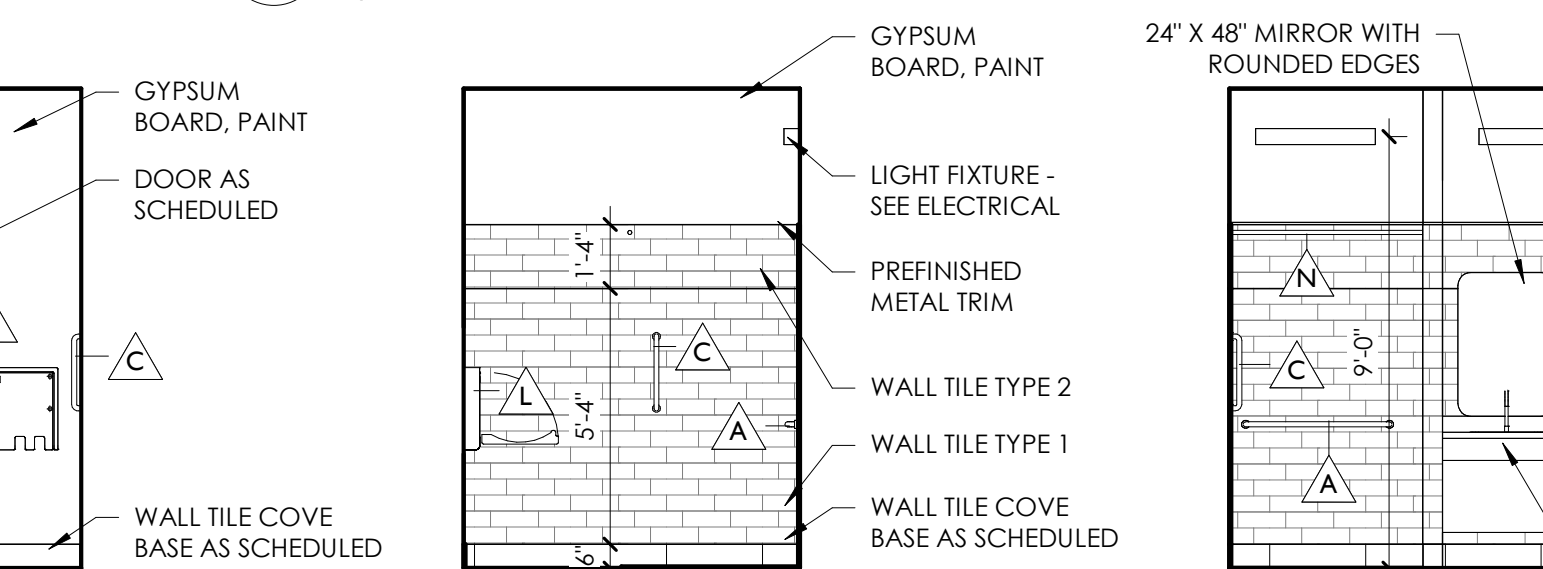
5 WOMENS RESTROOM - NORTH 1/4" = 1'-0"



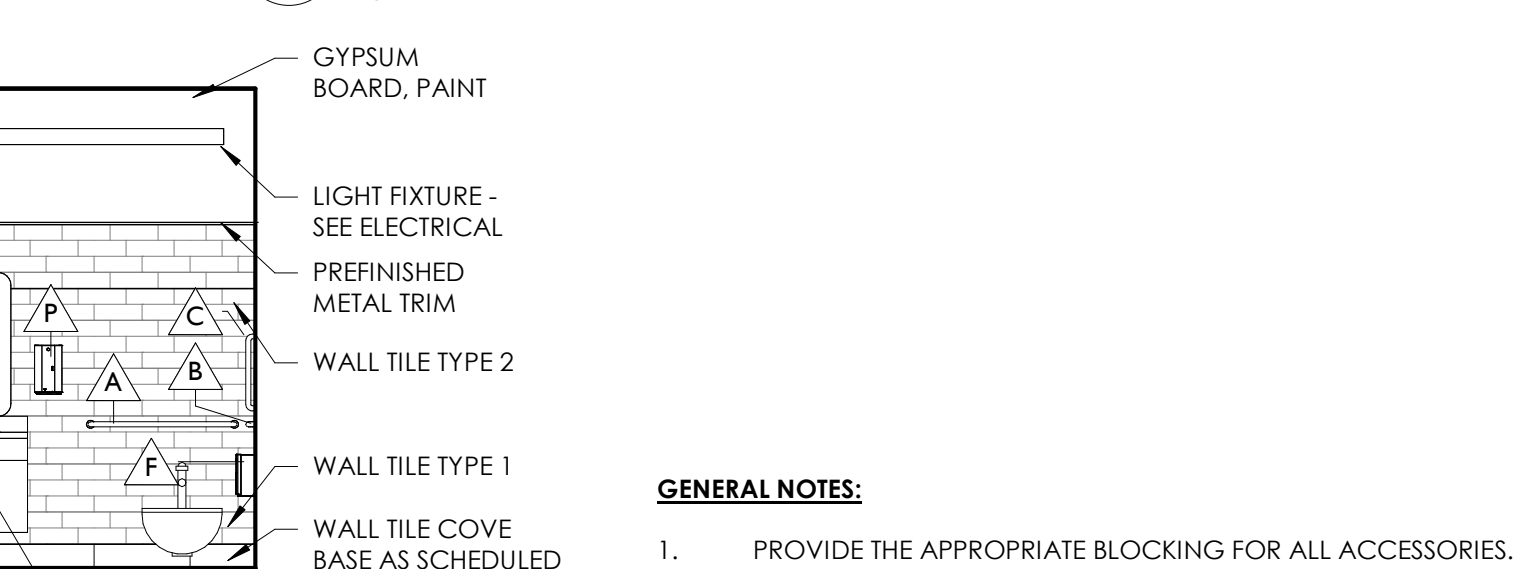
6 MENS RESTROOM - EAST 1/4" = 1'-0"



7 MENS RESTROOM - SOUTH 1/4" = 1'-0"



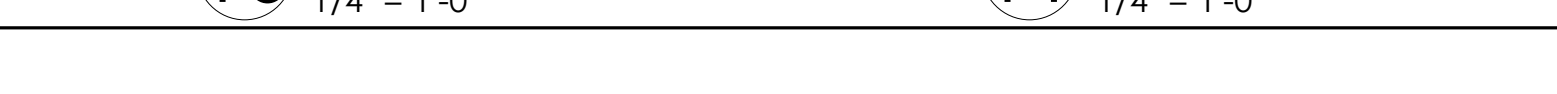
8 MENS RESTROOM - WEST 1/4" = 1'-0"



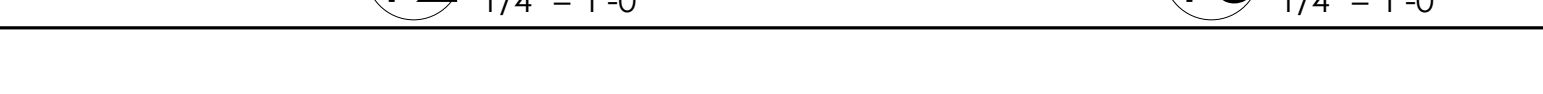
9 MENS RESTROOM - NORTH 1/4" = 1'-0"



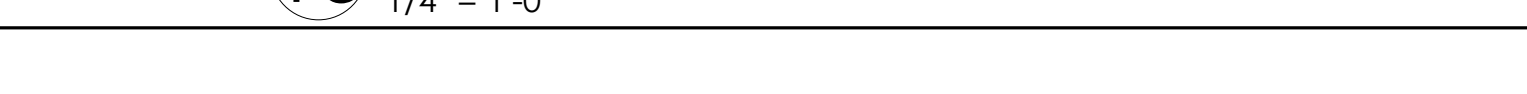
10 018 - EAST 1/4" = 1'-0"



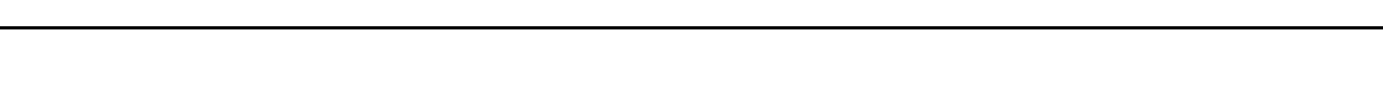
11 018 - SOUTH 1/4" = 1'-0"



12 018 - WEST 1/4" = 1'-0"



13 018 - NORTH 1/4" = 1'-0"



2X2 SUSPENDED ACOUSTICAL TILE

EXPOSED DECKING, PAINT

METAL 1: PREFINISHED METAL SOFFIT

METAL 2: PREFINISHED METAL SOFFIT

GYPSON BOARD, PAINT

CEILING TYPES

1/4" = 1'-0"

LINEAR PENDANT LIGHT

RECESSED LINEAR LIGHT

WALL LINEAR LIGHT

2X4 TROFFER

6" CAN LIGHT

LED RING LIGHT

SUPPLY DIFFUSER

RETURN DIFFUSER

EXIT LIGHT

LIGHTING FIXTURES

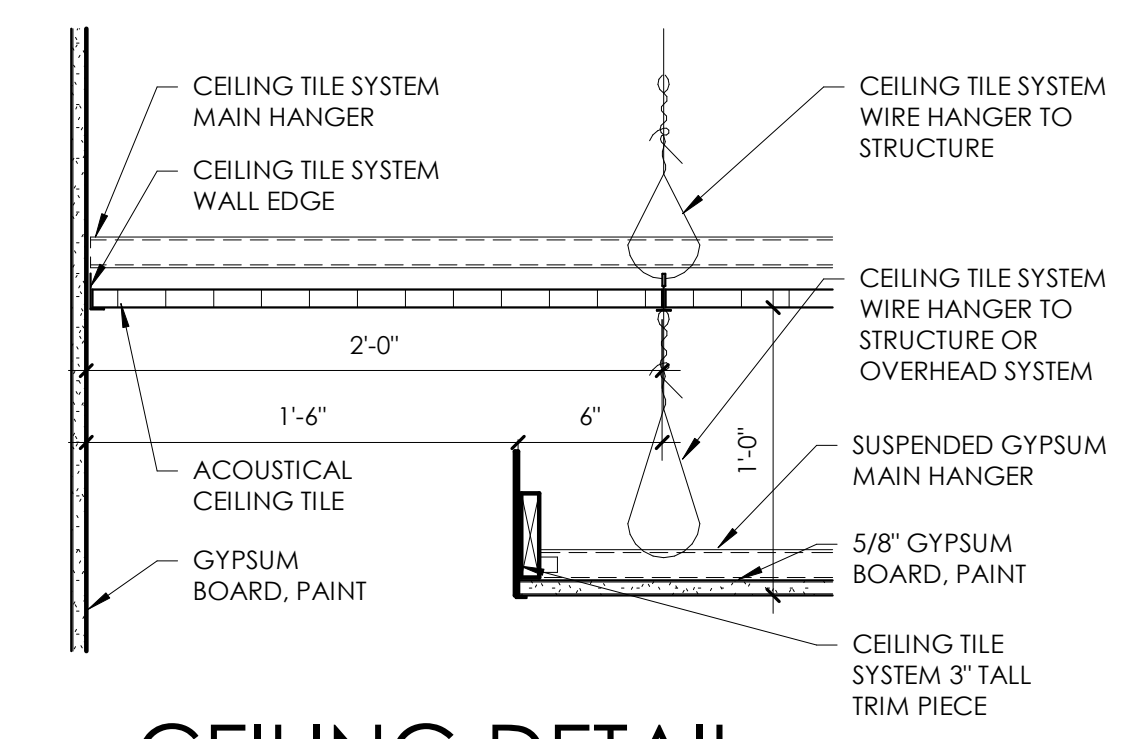
1/4" = 1'-0"

1 OVERALL BUILDING - REFLECTED CEILING PLAN
1/32" = 1'-0"

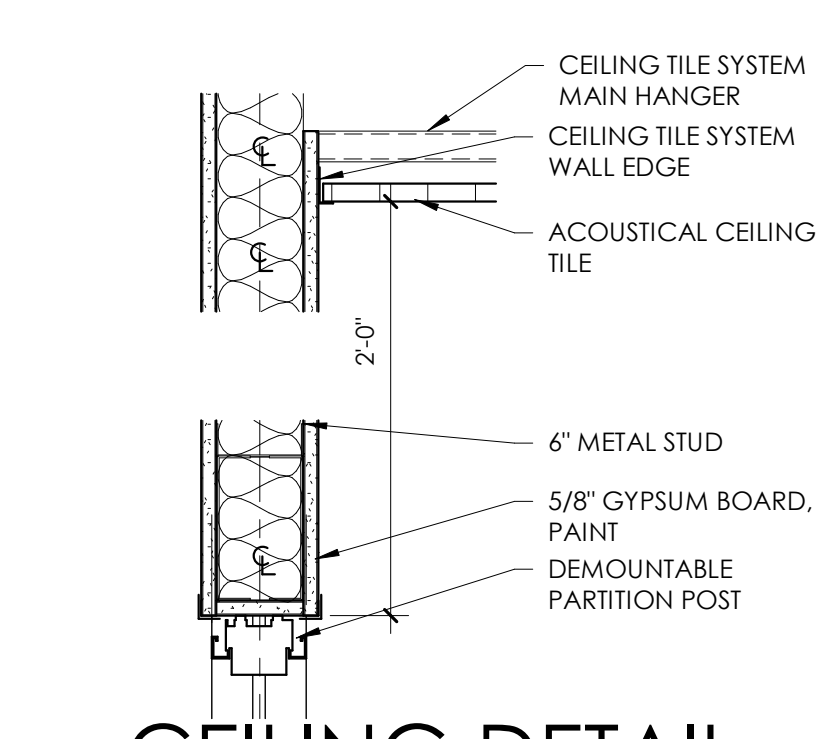
2 REFLECTED CEILING PLAN - FARM OVERALL
1/8" = 1'-0"

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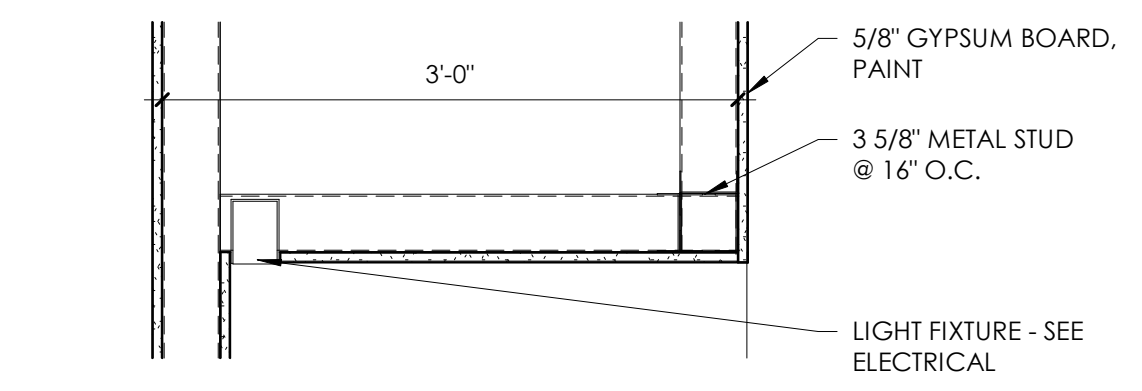
4/18/25



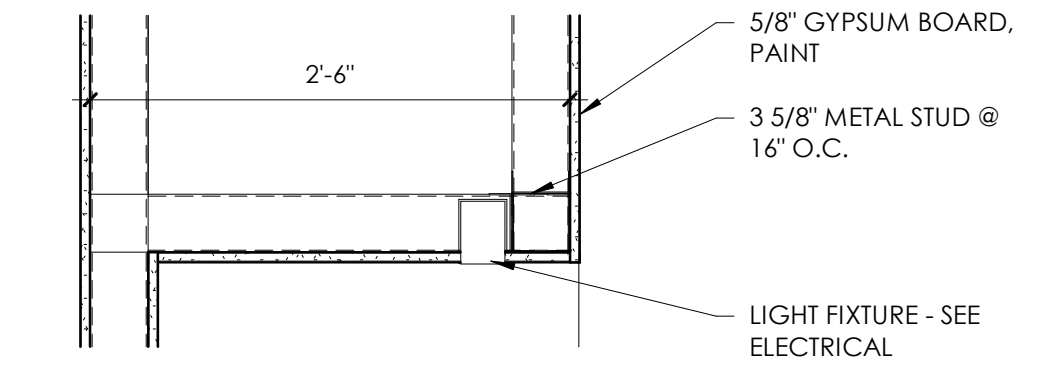
2 CEILING DETAIL
1 1/2" = 1'-0"



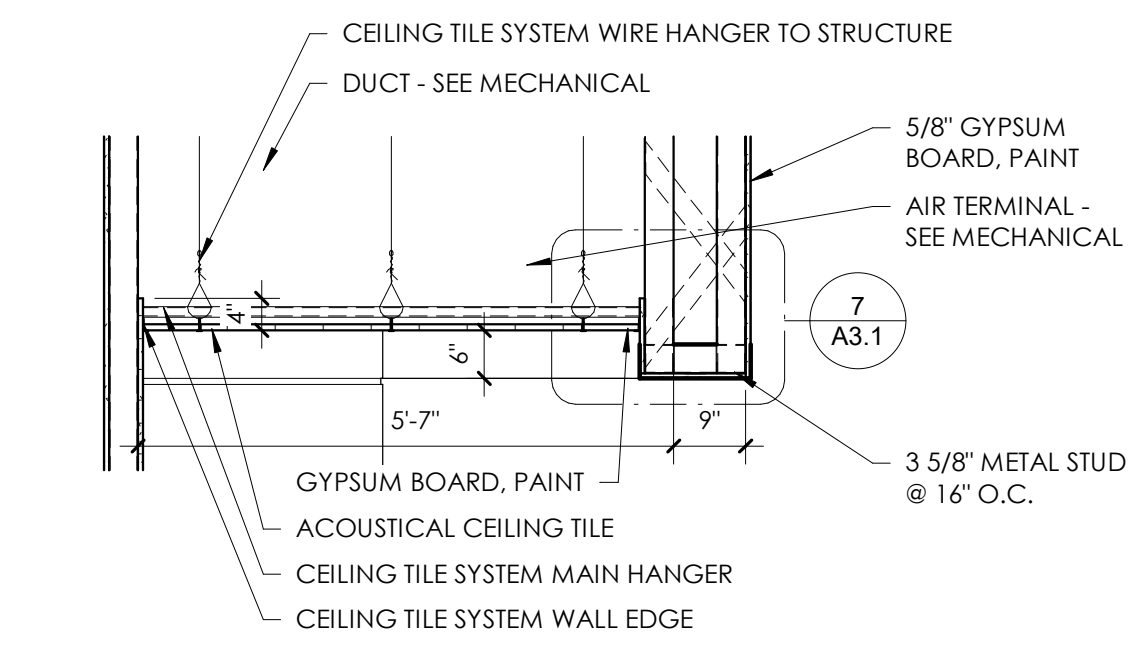
3 CEILING DETAIL
1 1/2" = 1'-0"



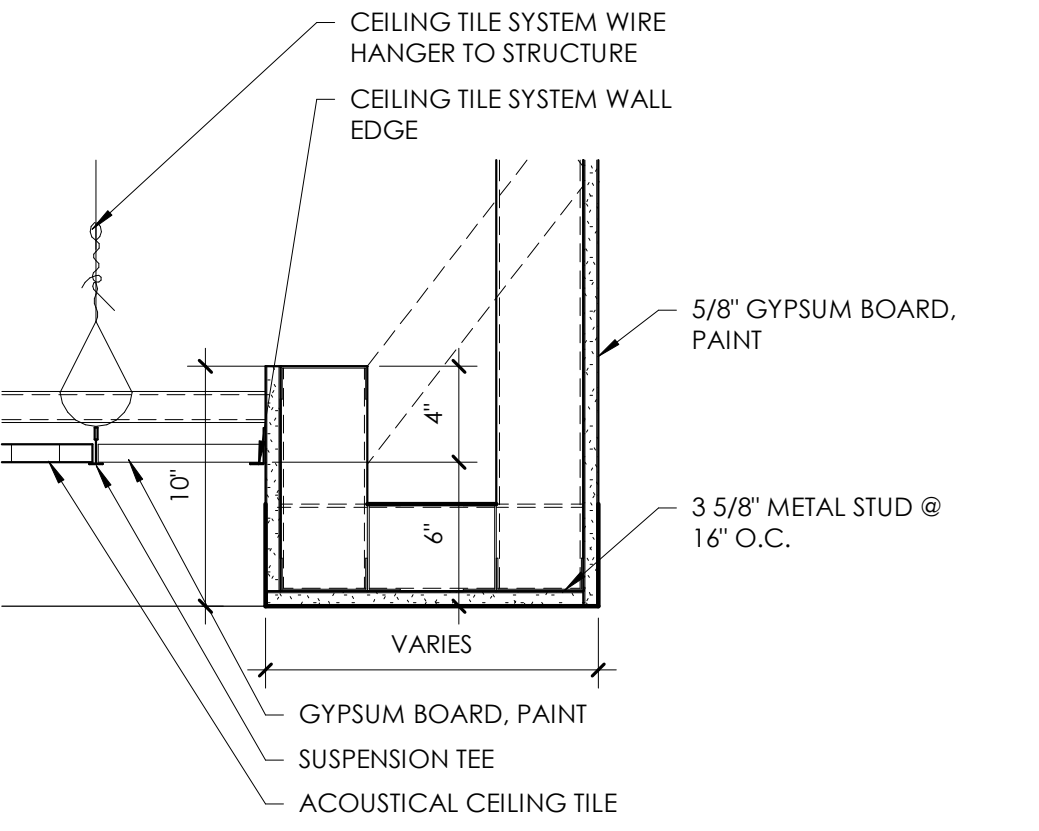
4 CEILING DETAIL
1" = 1'-0"



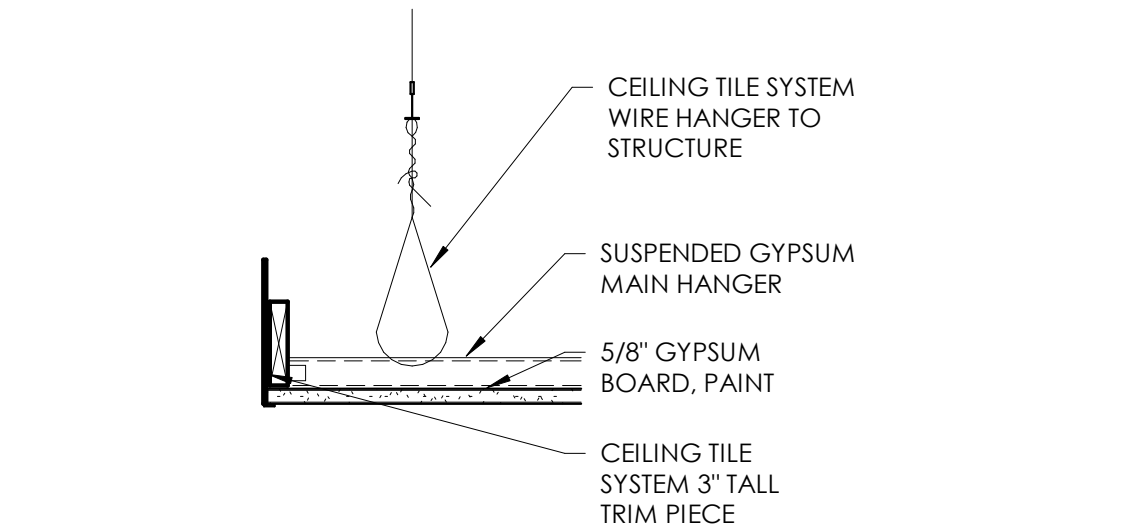
5 CEILING DETAIL
1" = 1'-0"



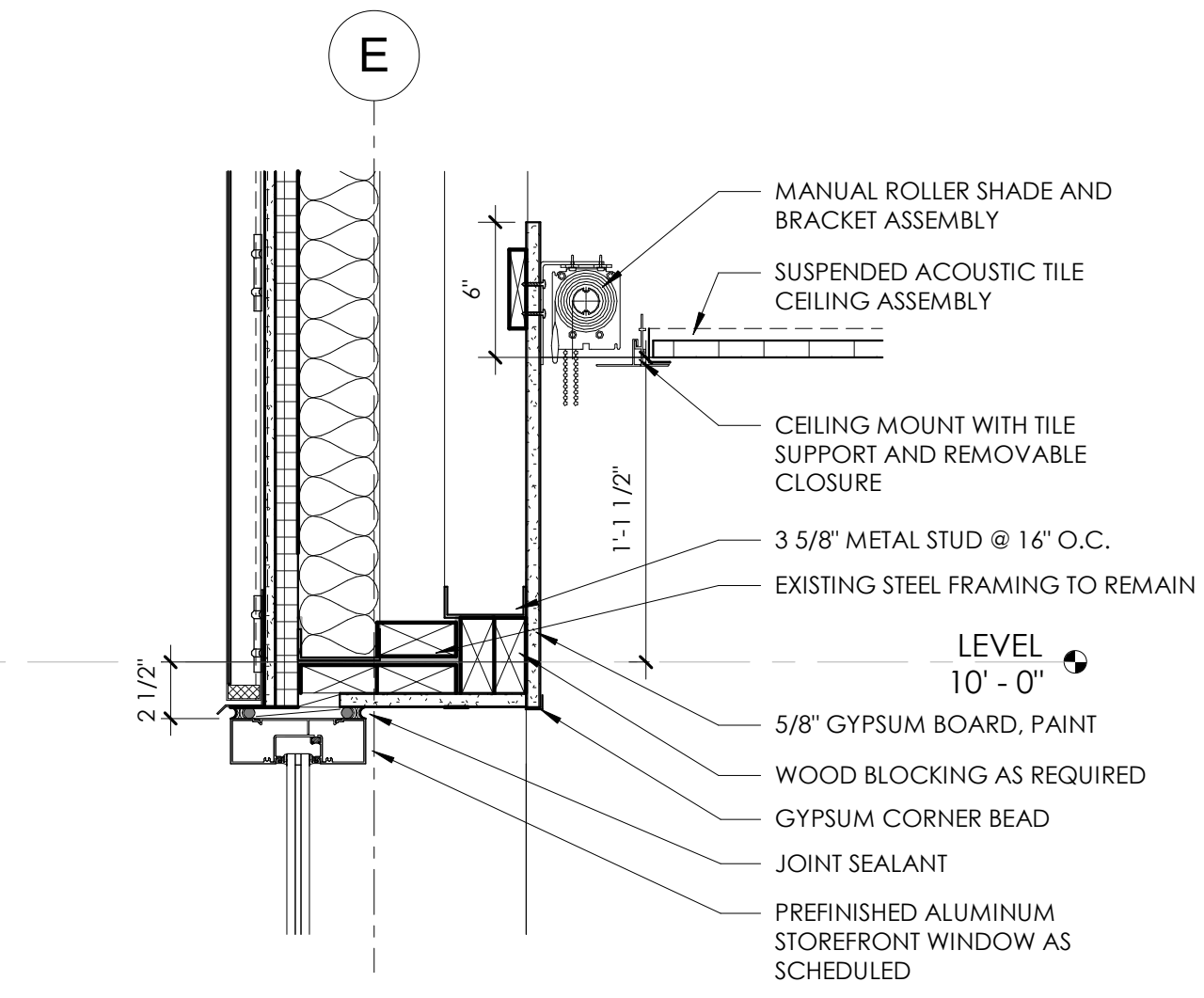
6 CEILING DETAIL
1/2" = 1'-0"



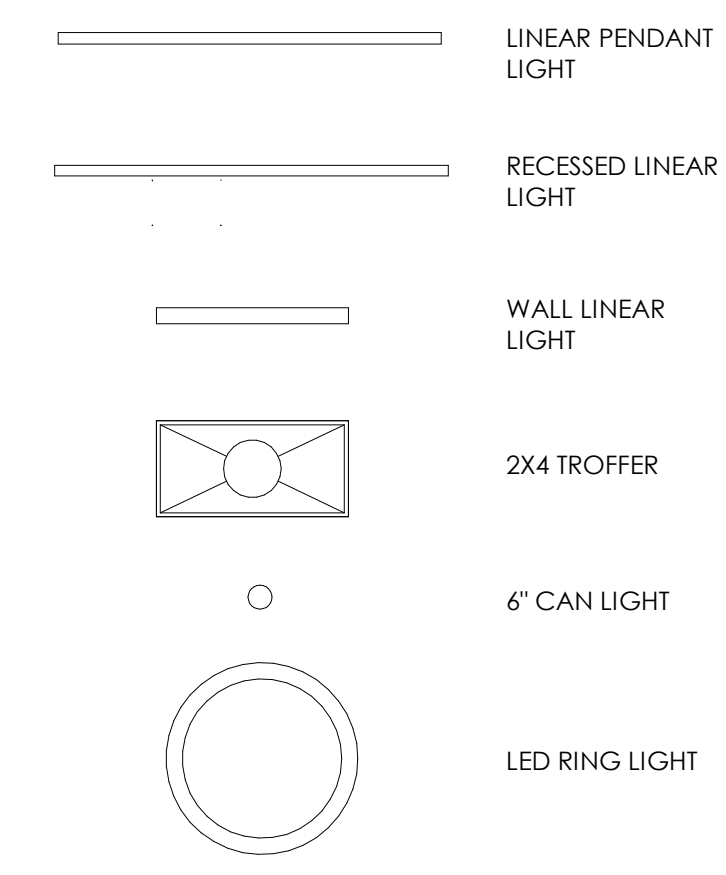
7 CEILING DETAIL
1 1/2" = 1'-0"



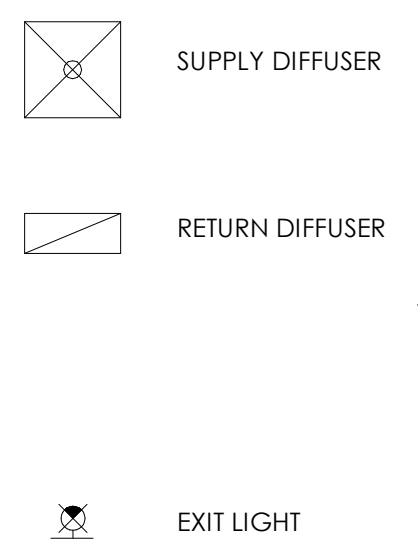
8 CEILING DETAIL
1 1/2" = 1'-0"



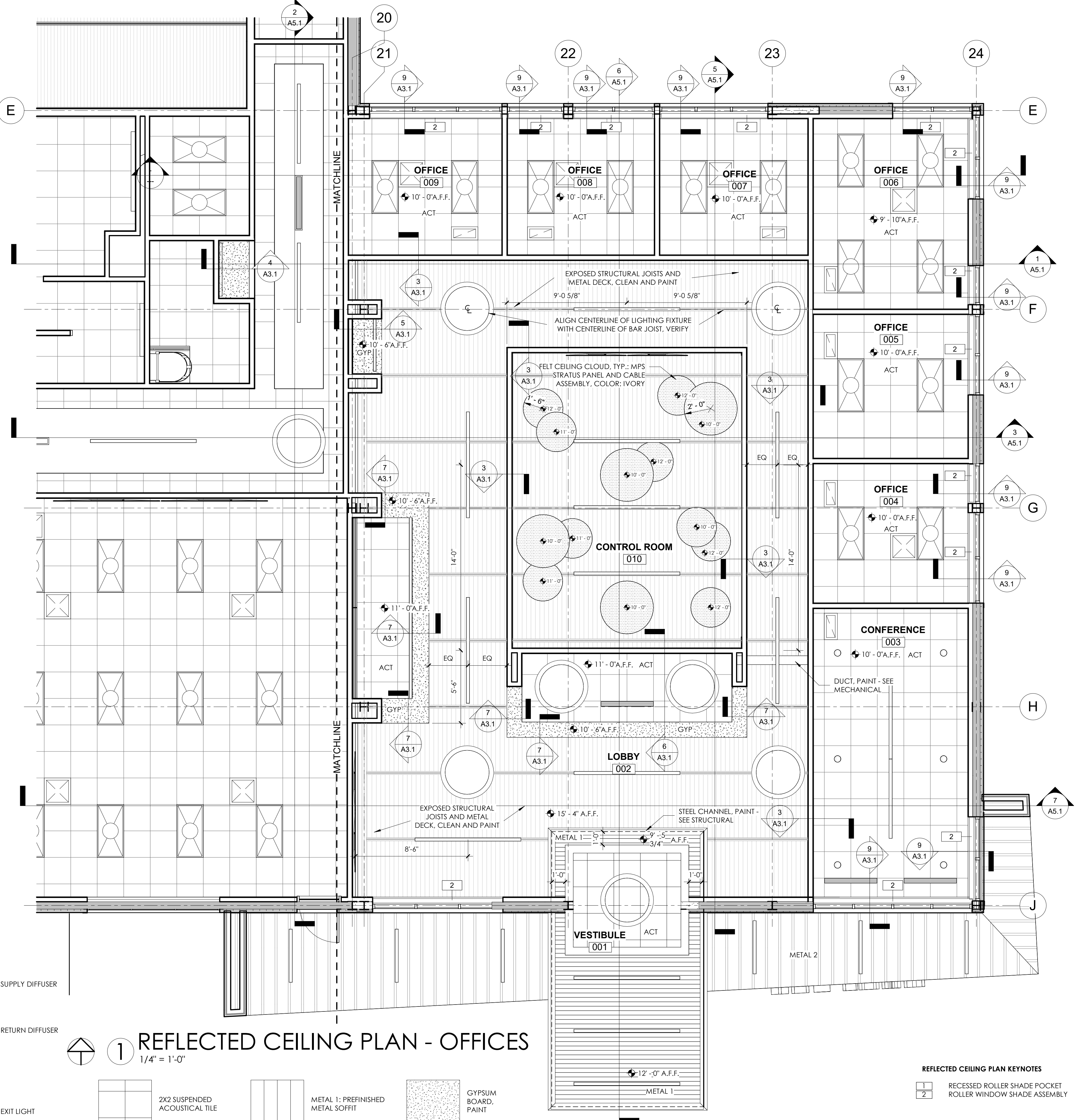
9 CEILING DETAIL
1 1/2" = 1'-0"



LIGHTING FIXTURES
1/4" = 1'-0"



CEILING TYPES
1/4" = 1'-0"

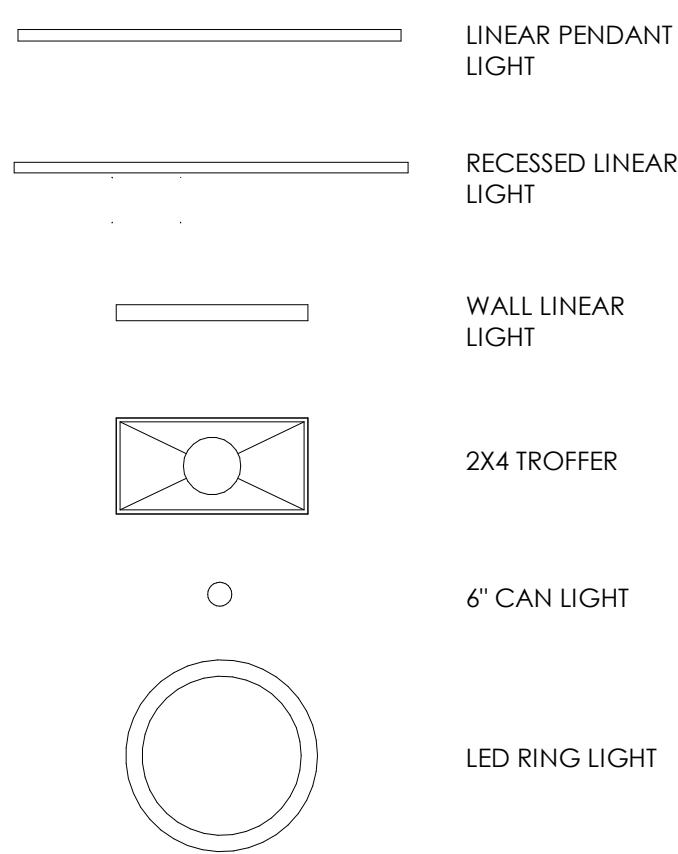


1 REFLECTED CEILING PLAN - OFFICES
1/4" = 1'-0"

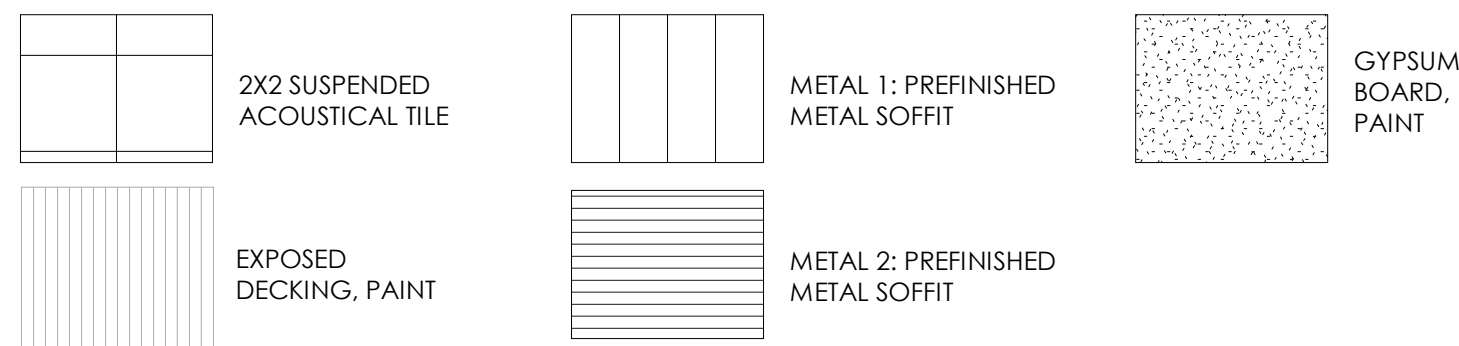
REFLECTED CEILING PLAN KEYNOTES
1 RECESSED ROLLER SHADE POCKET
2 ROLLER WINDOW SHADE ASSEMBLY

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100 RIVER BLUFF DRIVE, SUITE 320 · LITTLE ROCK, AR 72202
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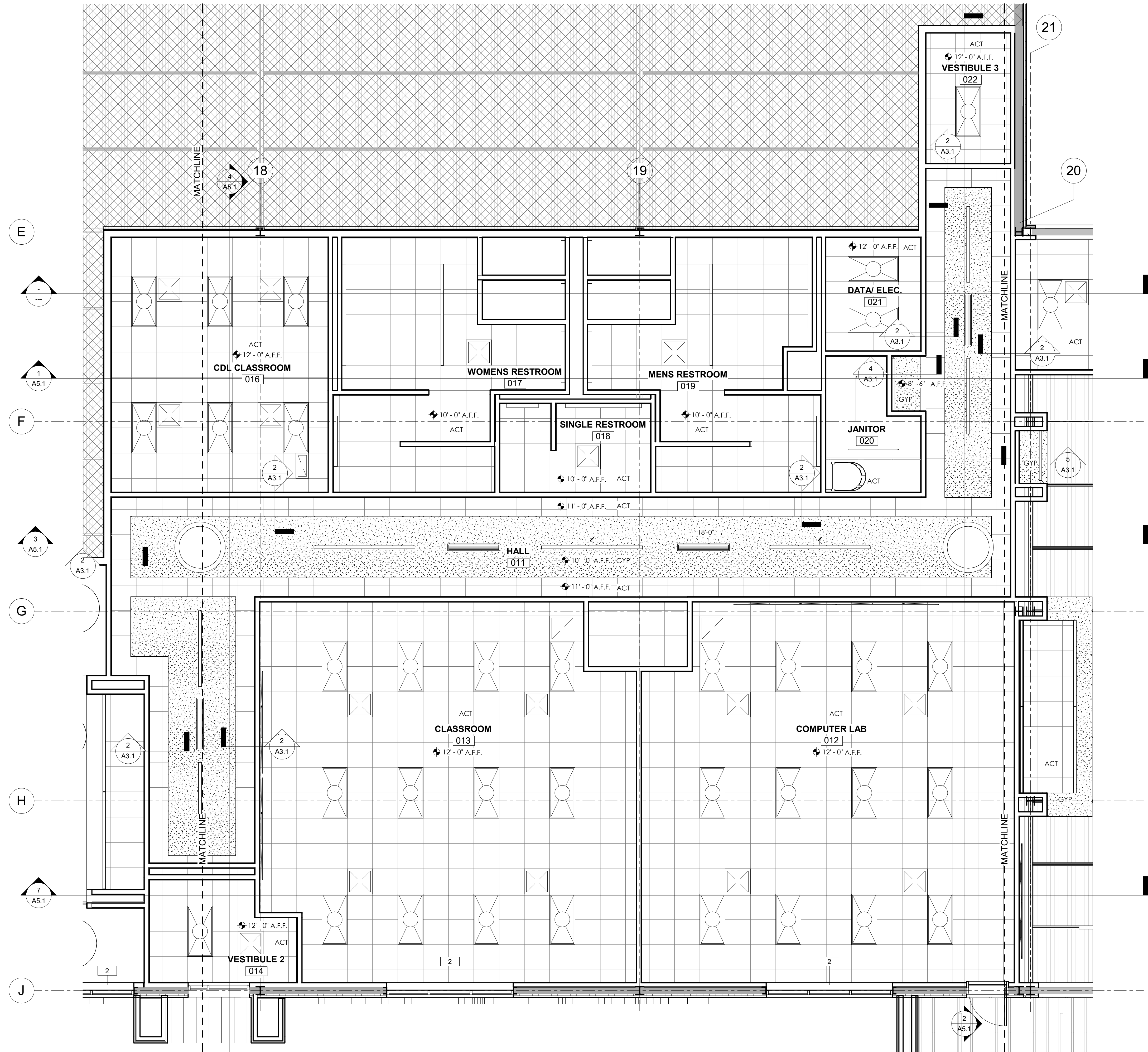




LIGHTING FIXTURES
1/4" = 1'-0"



CEILING TYPES
1/4" = 1'-0"



1 REFLECTED CEILING PLAN - CLASSROOM
1/4" = 1'-0"

FENNEL PURIFOY
ARCHITECTS

100 RIVER BLUFF DRIVE, SUITE 320 · LITTLE ROCK, AR 72202
T 501.372.6734 · F 501.372.6736



2X2 SUSPENDED ACOUSTICAL TILE

EXPOSED DECKING, PAINT

METAL 1: PREFINISHED METAL SOFFIT

METAL 2: PREFINISHED METAL SOFFIT

GYPSUM BOARD, PAINT

CEILING TYPES

1/4" = 1'-0"

LINEAR PENDANT LIGHT

RECESSED LINEAR LIGHT

WALL LINEAR LIGHT

2X4 TROFFER

6" CAN LIGHT

LED RING LIGHT

SUPPLY DIFFUSER

RETURN DIFFUSER

EXIT LIGHT

LIGHTING FIXTURES
1/4" = 1'-0"

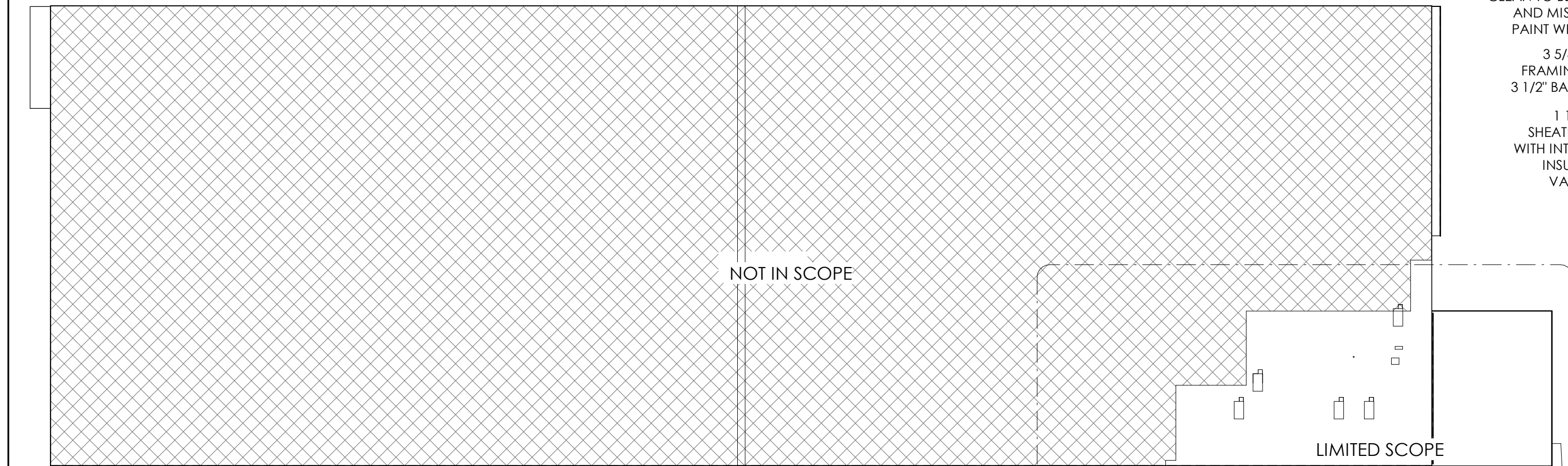
1 REFLECTED CEILING PLAN - MEETING ROOM
1/4" = 1'-0"

FENNEL PURIFOY
ARCHITECTS
100 RIVER BLUFF DRIVE, SUITE 320 • LITTLE ROCK, AR 72202
T 501.372.6734 • F 501.372.6736

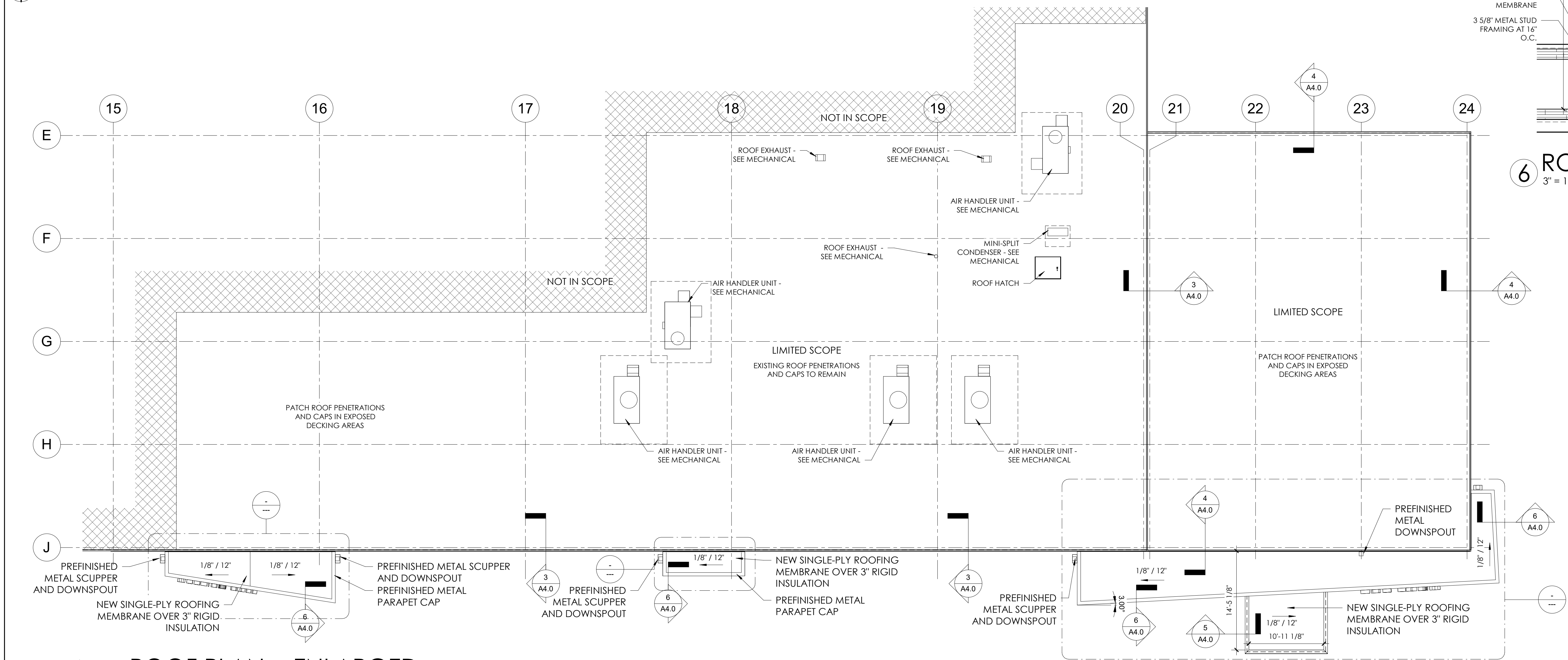
UACCB GATEWAY CENTER FARM
2210 E. Main Street, Batesville, AR

REVISIONS:
100% CONSTRUCTION DRAWINGS
04.18.2025

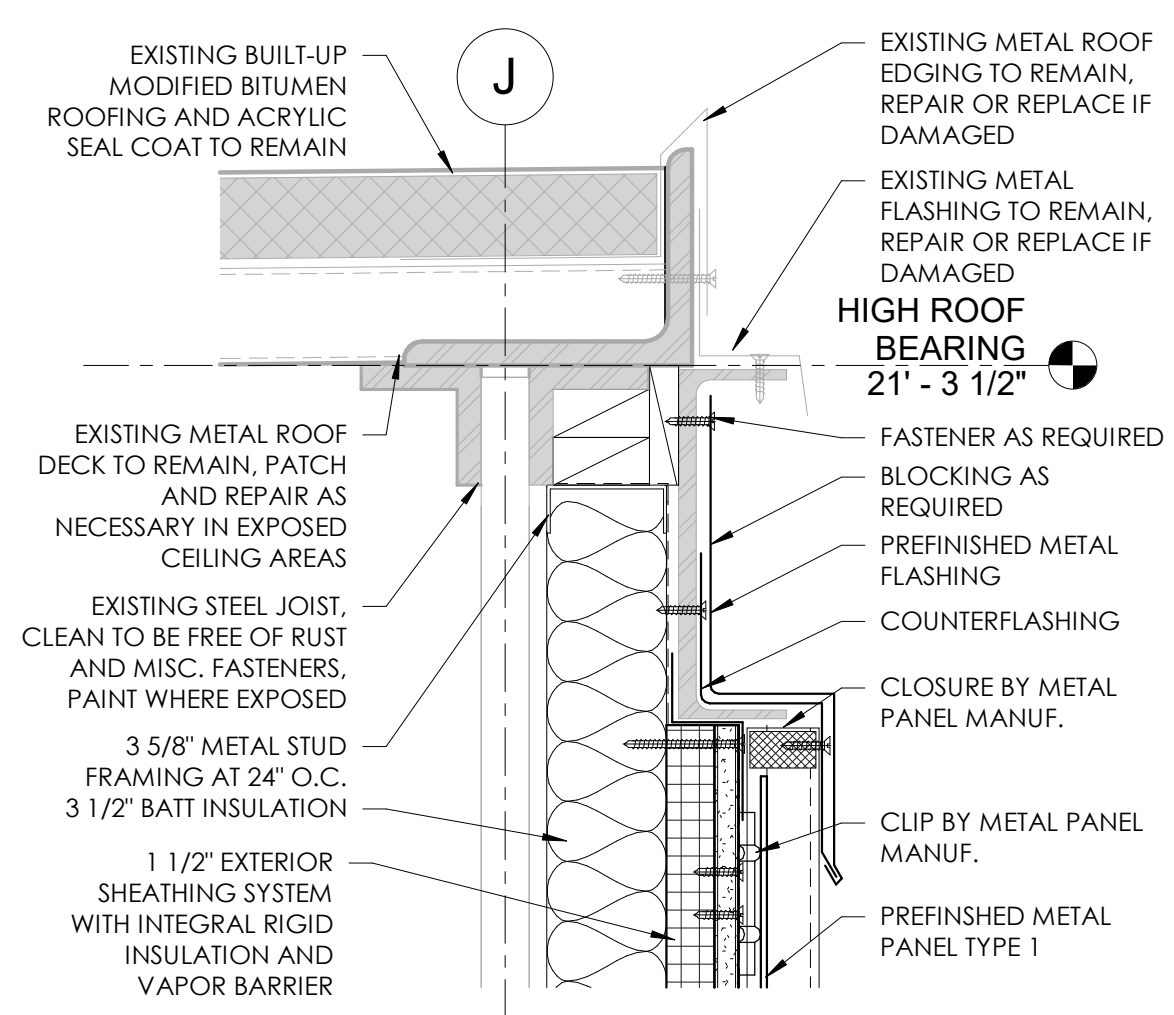
REFLECTED CEILING PLAN - MEETING
A3.3



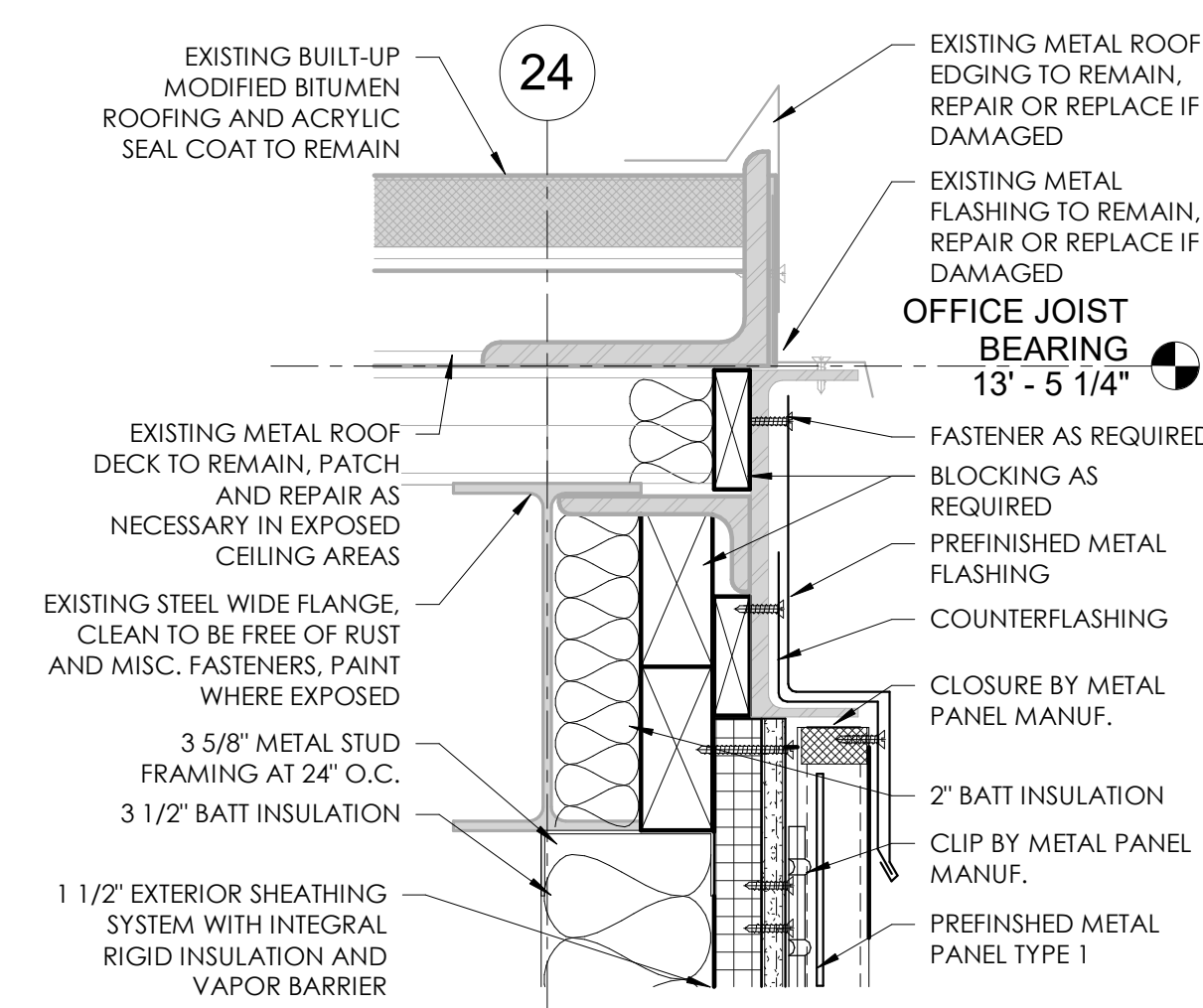
1 OVERALL ROOF PLAN
1" = 40'-0"



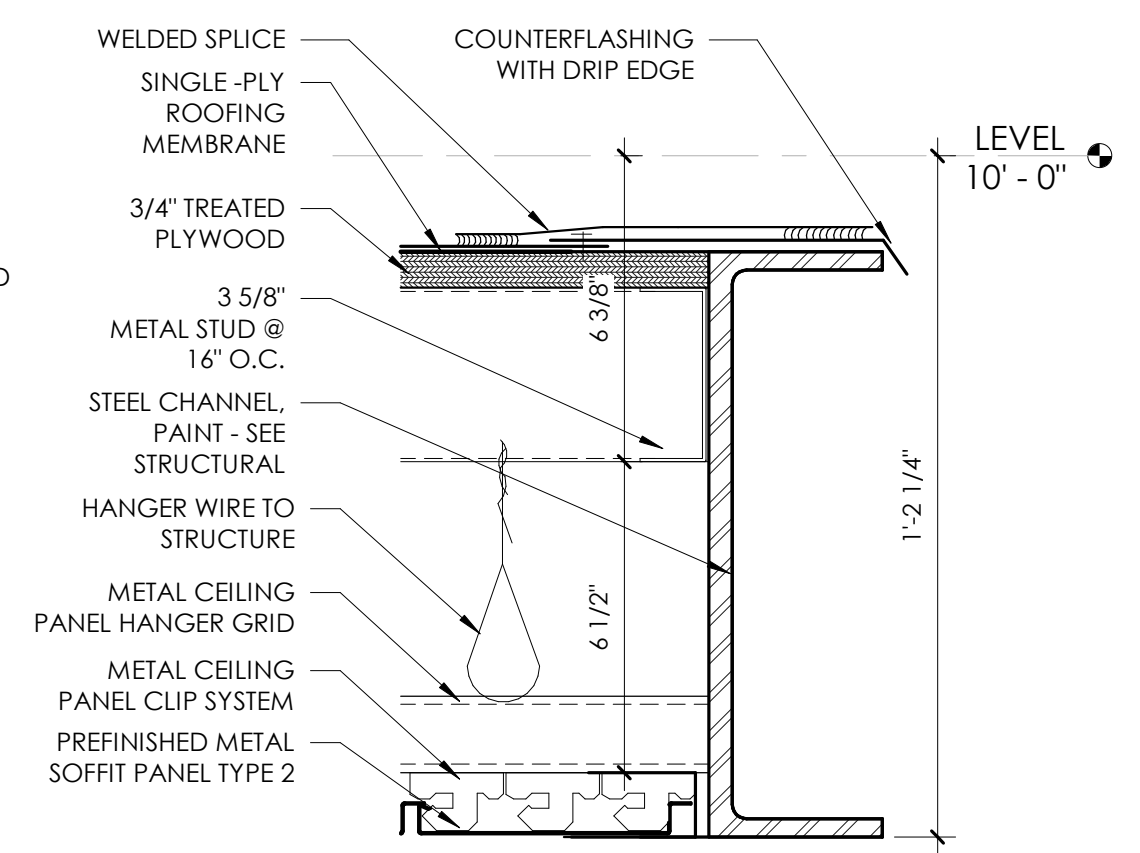
2 ROOF PLAN - ENLARGED
1/8" = 1'-0"



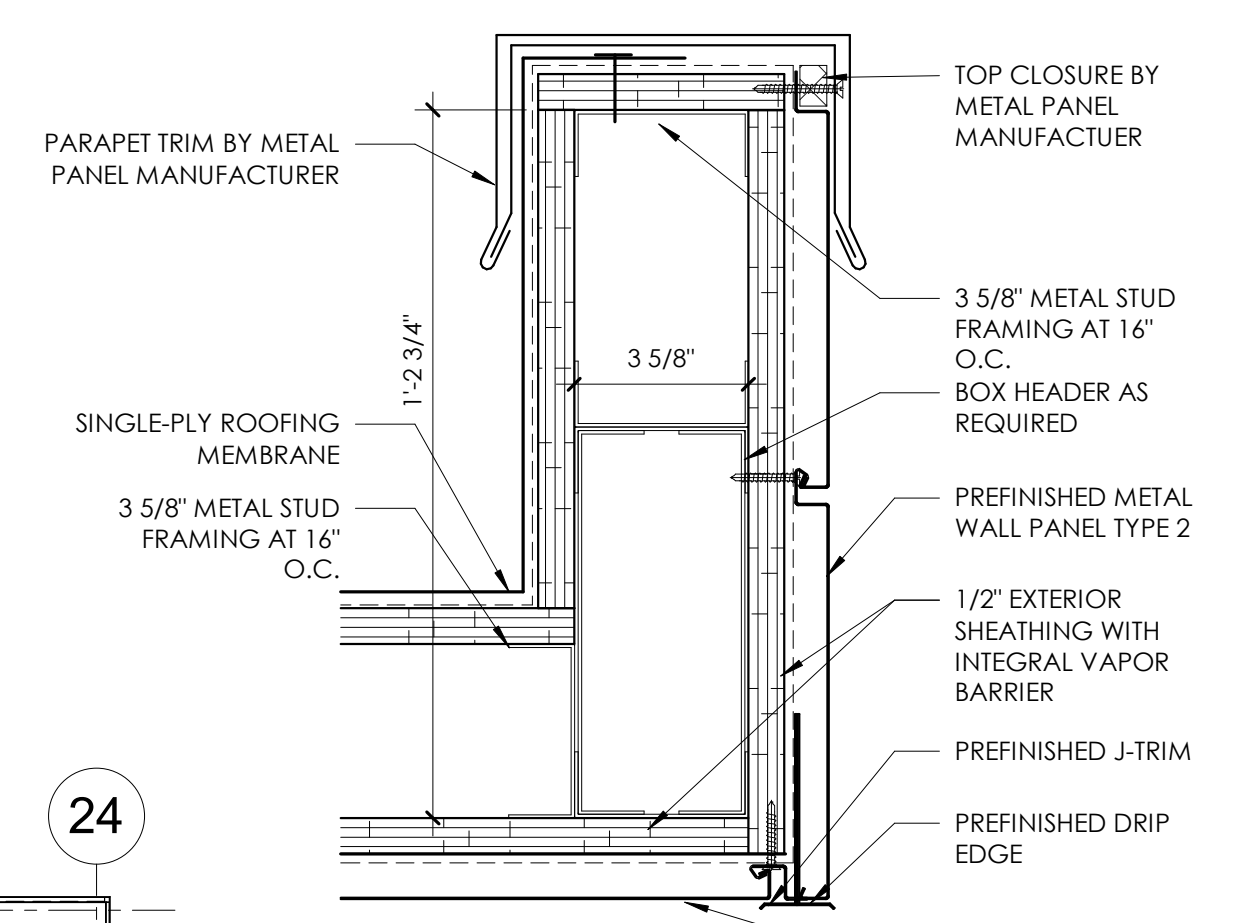
3 ROOF DETAIL
3" = 1'-0"



4 ROOF DETAIL
3" = 1'-0"



5 ROOF DETAIL
3" = 1'-0"



6 ROOF DETAIL
3" = 1'-0"

3
A5.0

NOT IN SCOPE

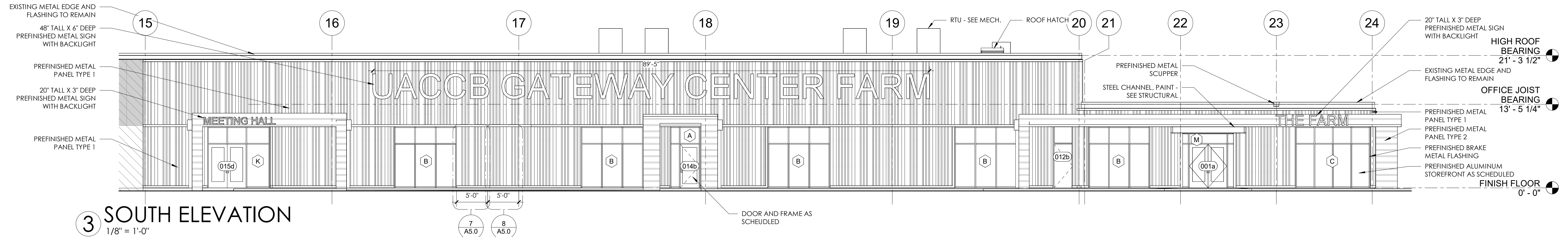
NOT IN SCOPE

UACCB GATEWAY CENTER FARM

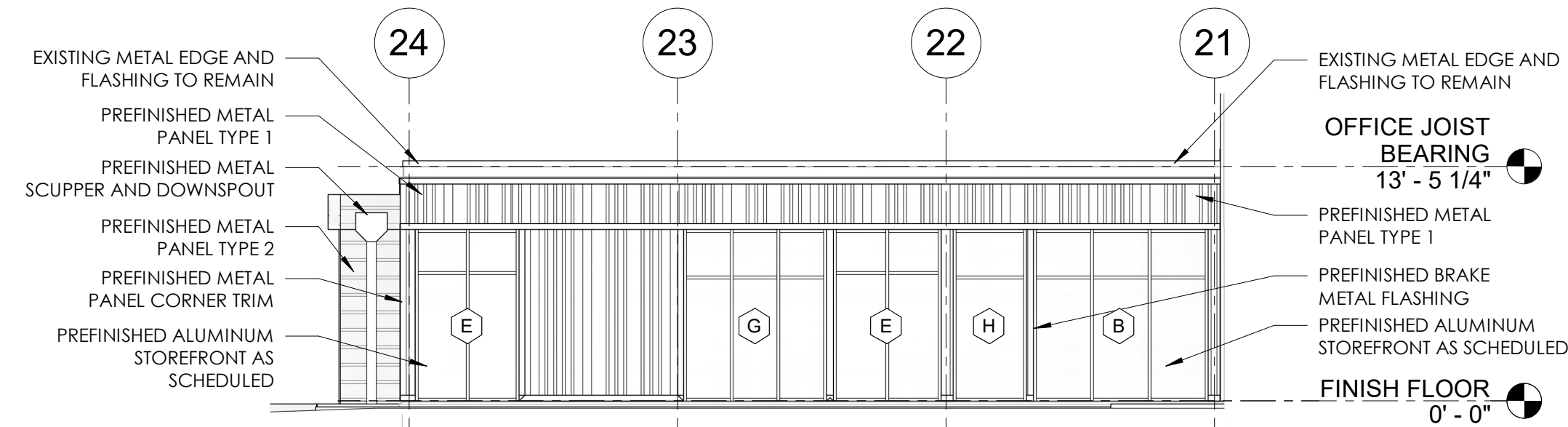
1 SOUTH ELEVATION - OVERALL
3/64" = 1'-0"

NOT IN SCOPE

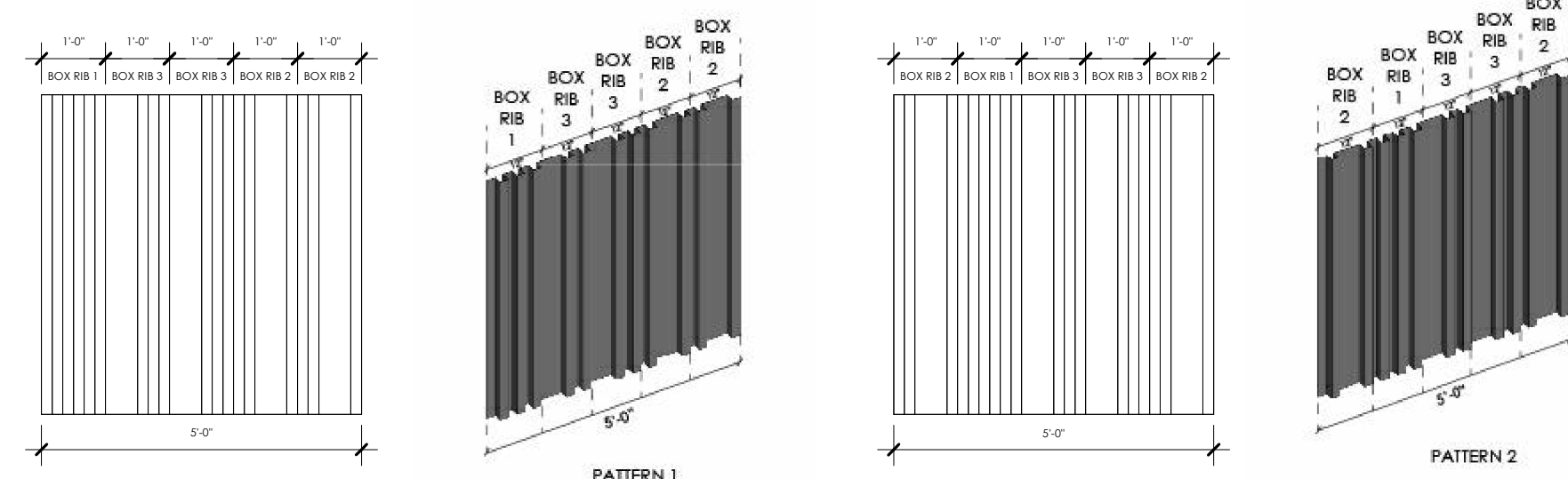
2 NORTH ELEVATION - OVERALL
3/64" = 1'-0"



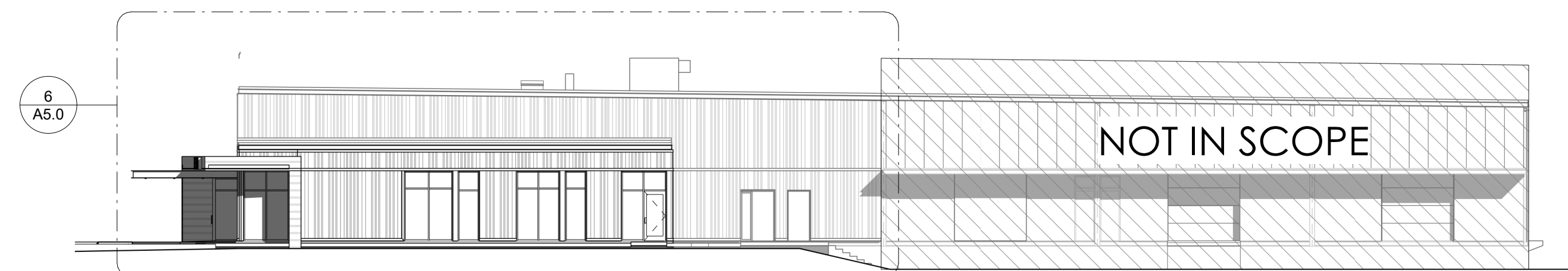
3 SOUTH ELEVATION
1/8" = 1'-0"



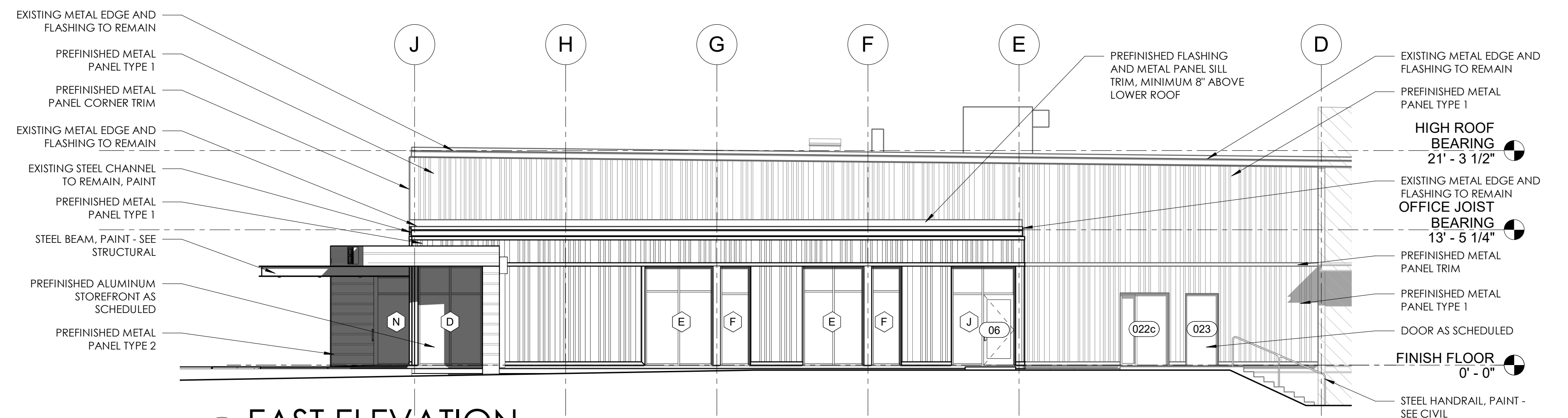
4 NORTH ELEVATION
1/8" = 1'-0"



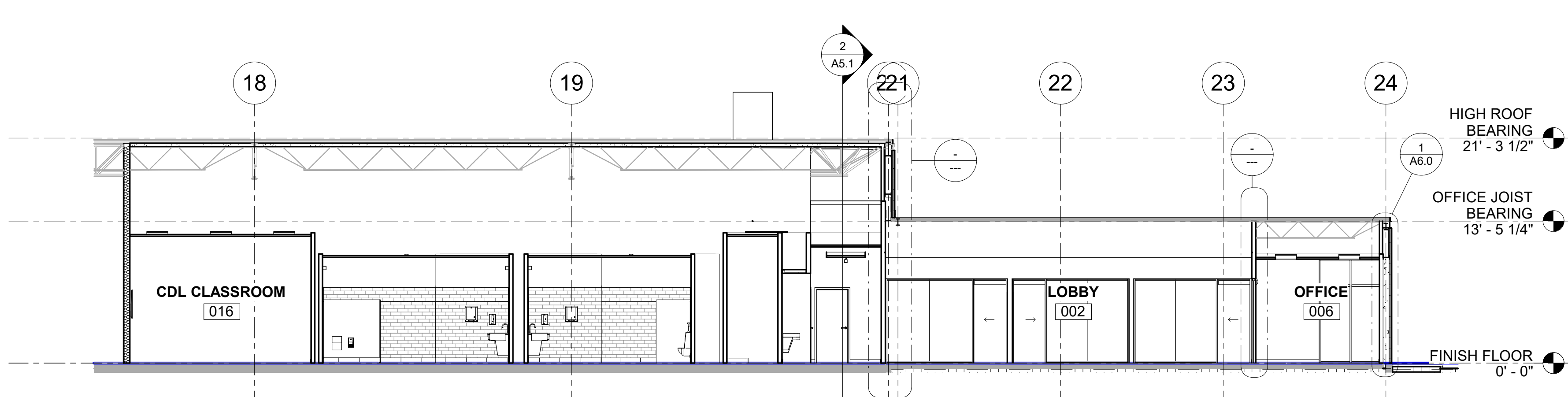
METAL PANEL PATTERN SCHEDULE



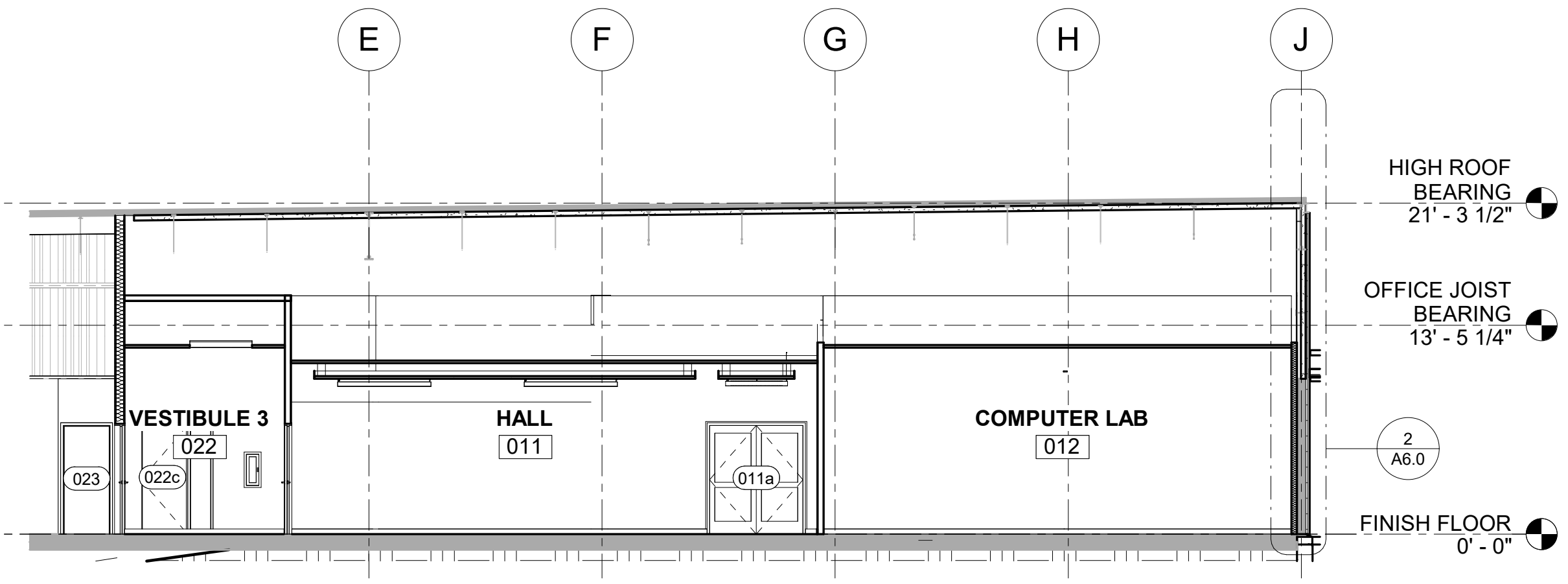
5 EAST ELEVATION - OVERALL
1/16" = 1'-0"



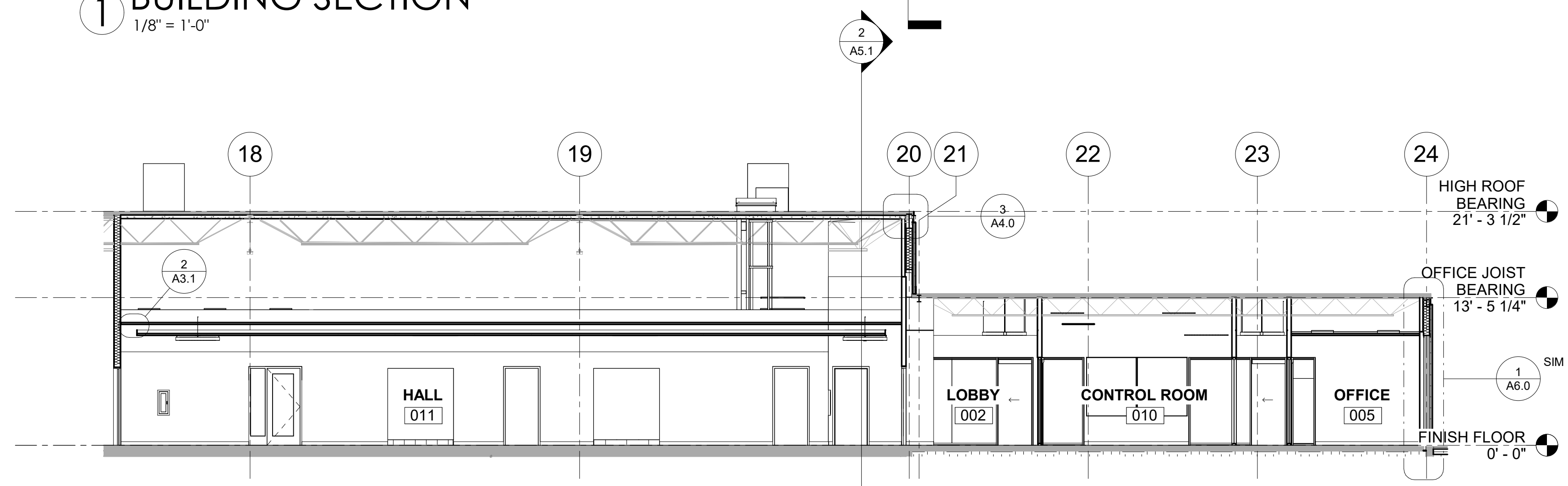
6 EAST ELEVATION
1/8" = 1'-0"



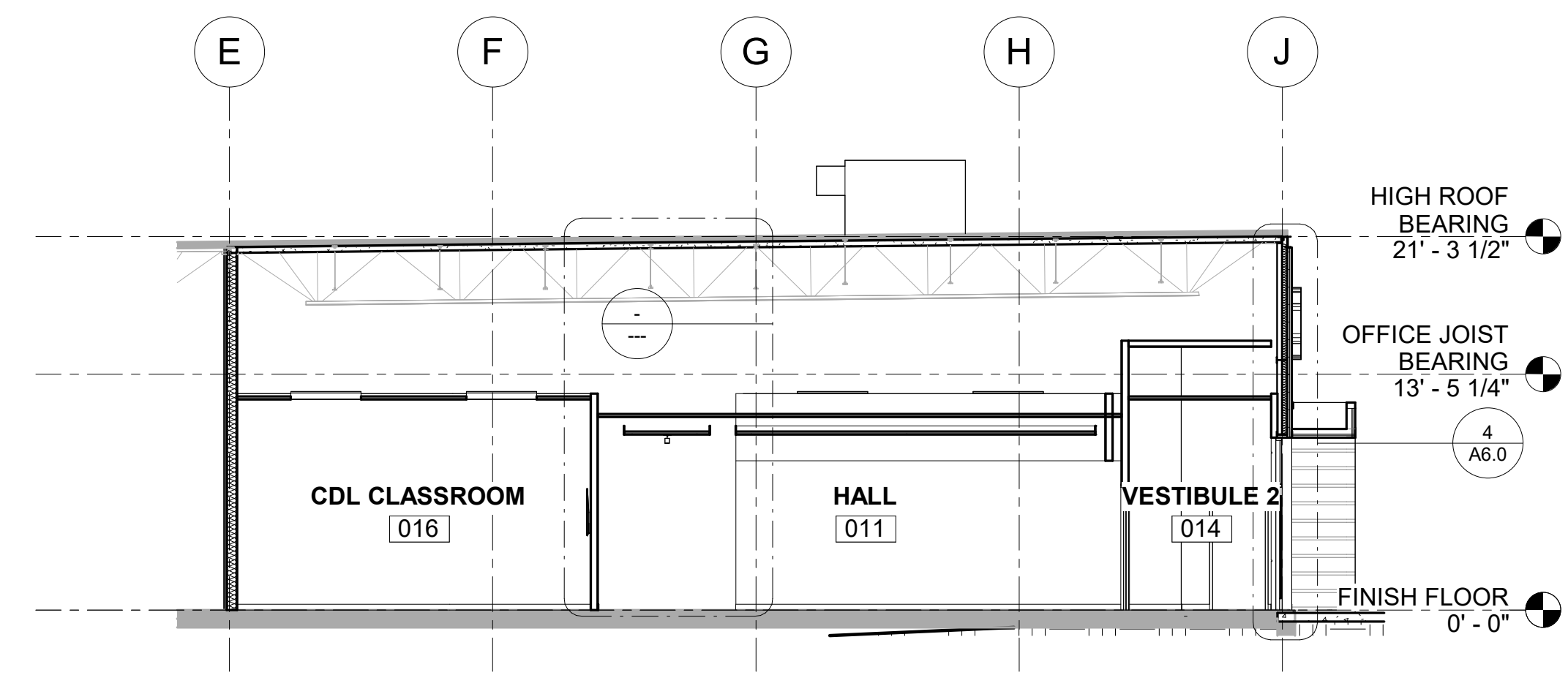
1 BUILDING SECTION
1/8" = 1'-0"



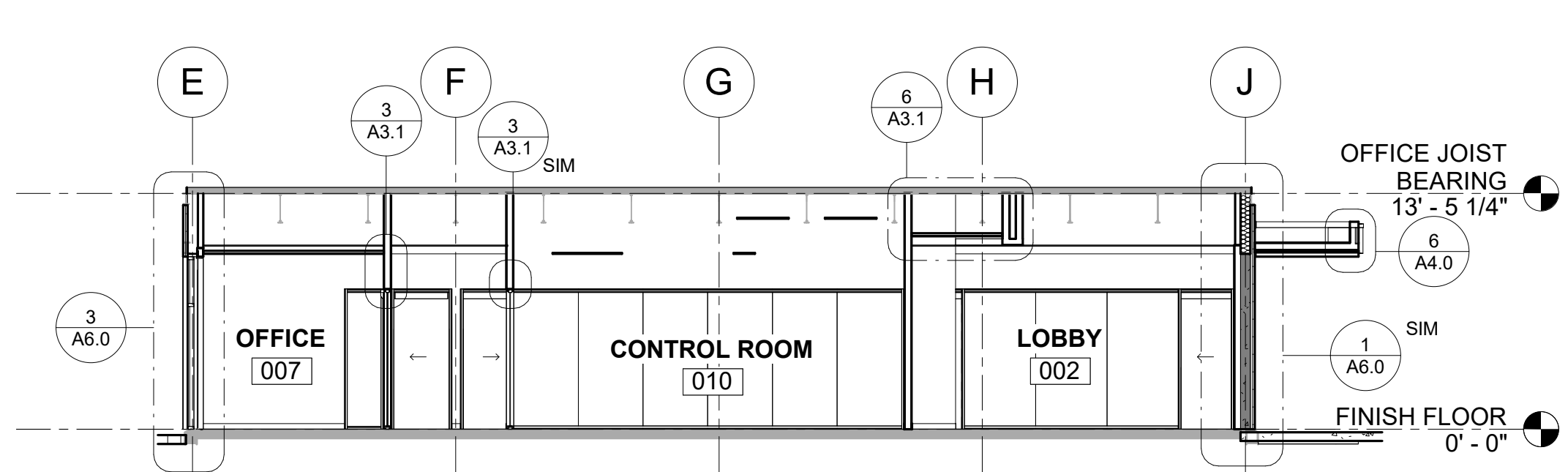
2 BUILDING SECTION
1/8" = 1'-0"



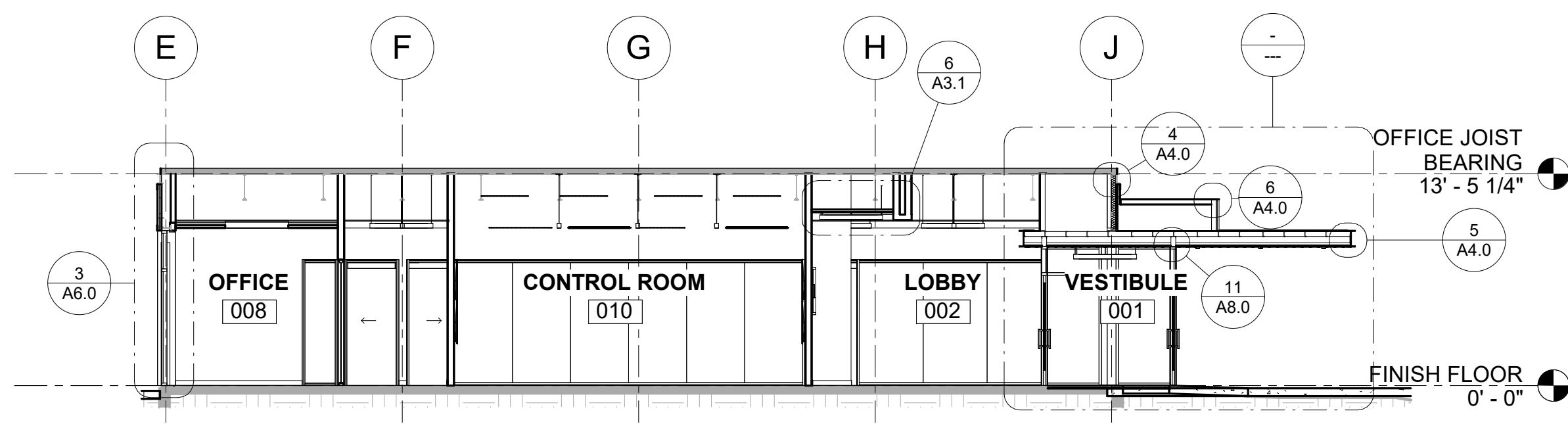
3 BUILDING SECTION
1/8" = 1'-0"



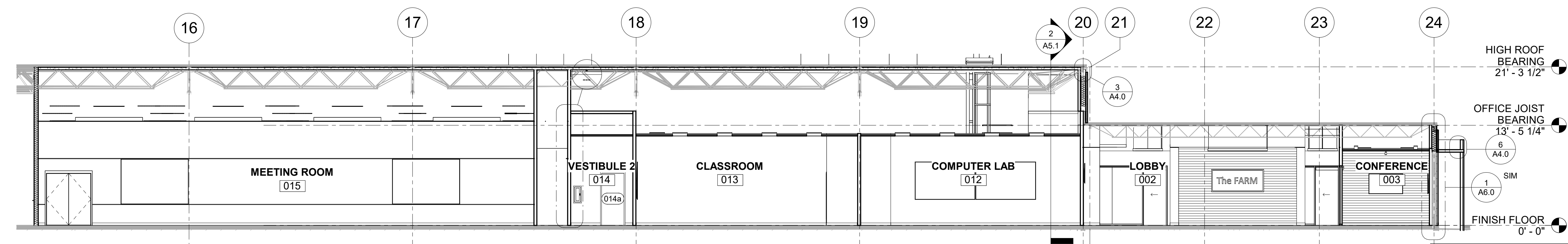
4 BUILDING SECTION
1/8" = 1'-0"



5 BUILDING SECTION
1/8" = 1'-0"

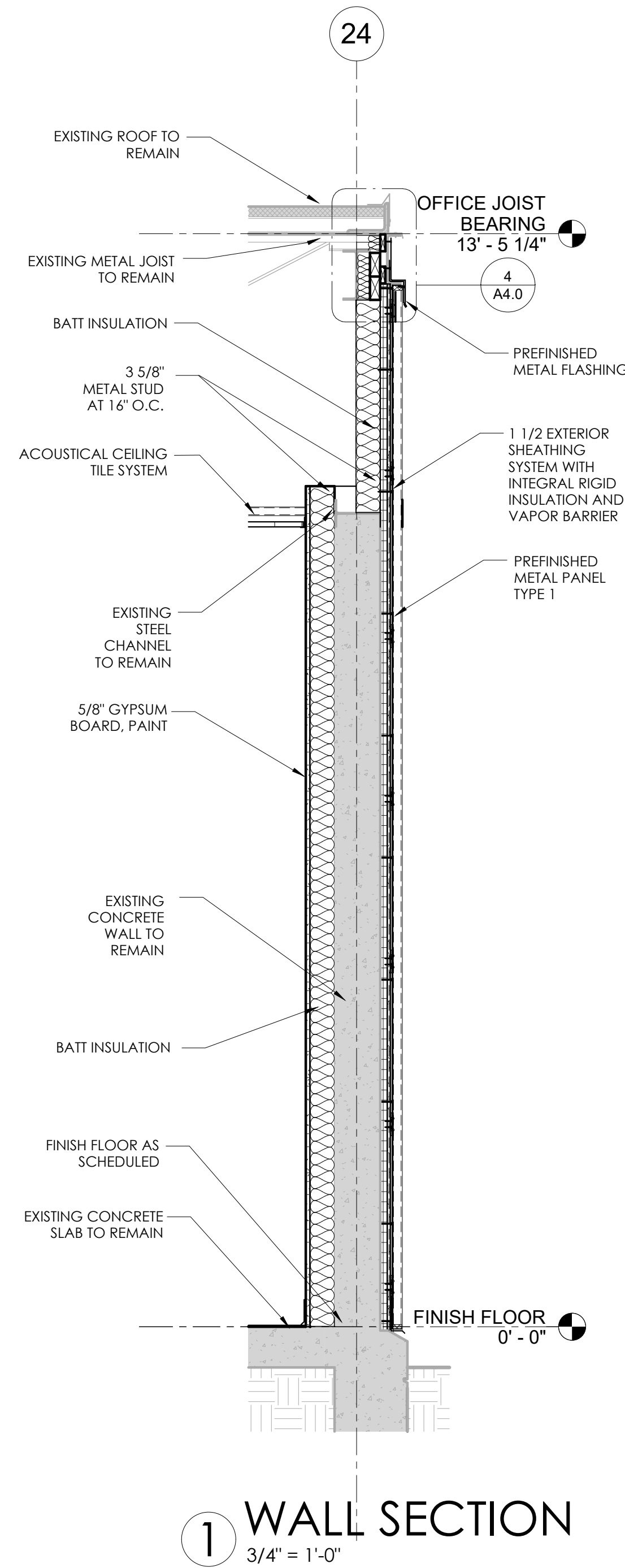


6 BUILDING SECTION
1/8" = 1'-0"

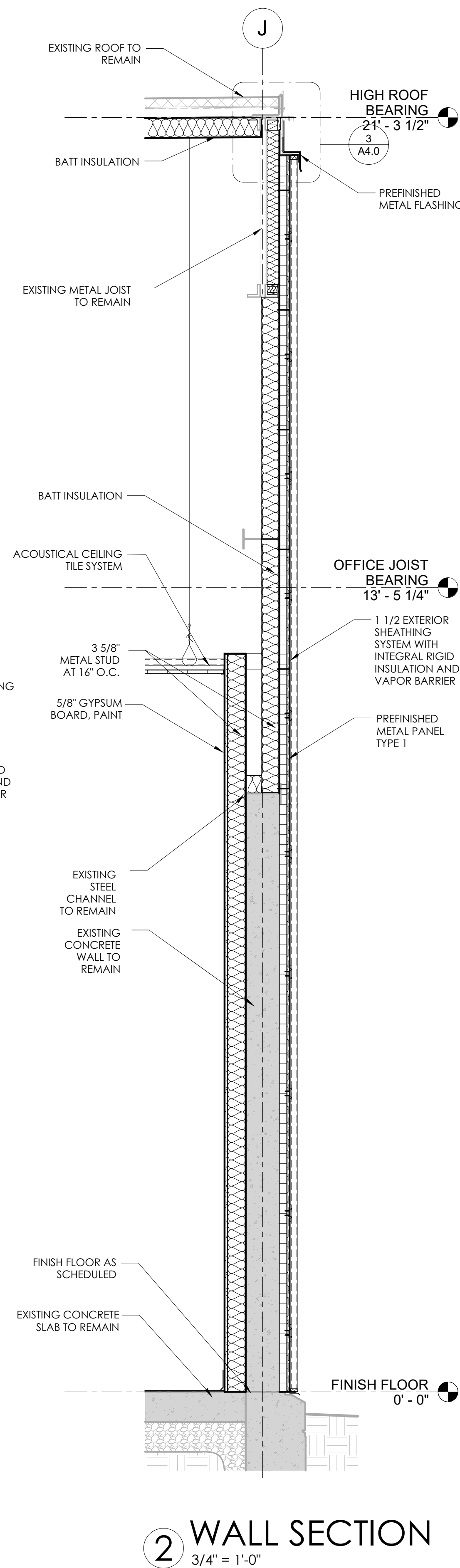


7 BUILDING SECTION
1/8" = 1'-0"

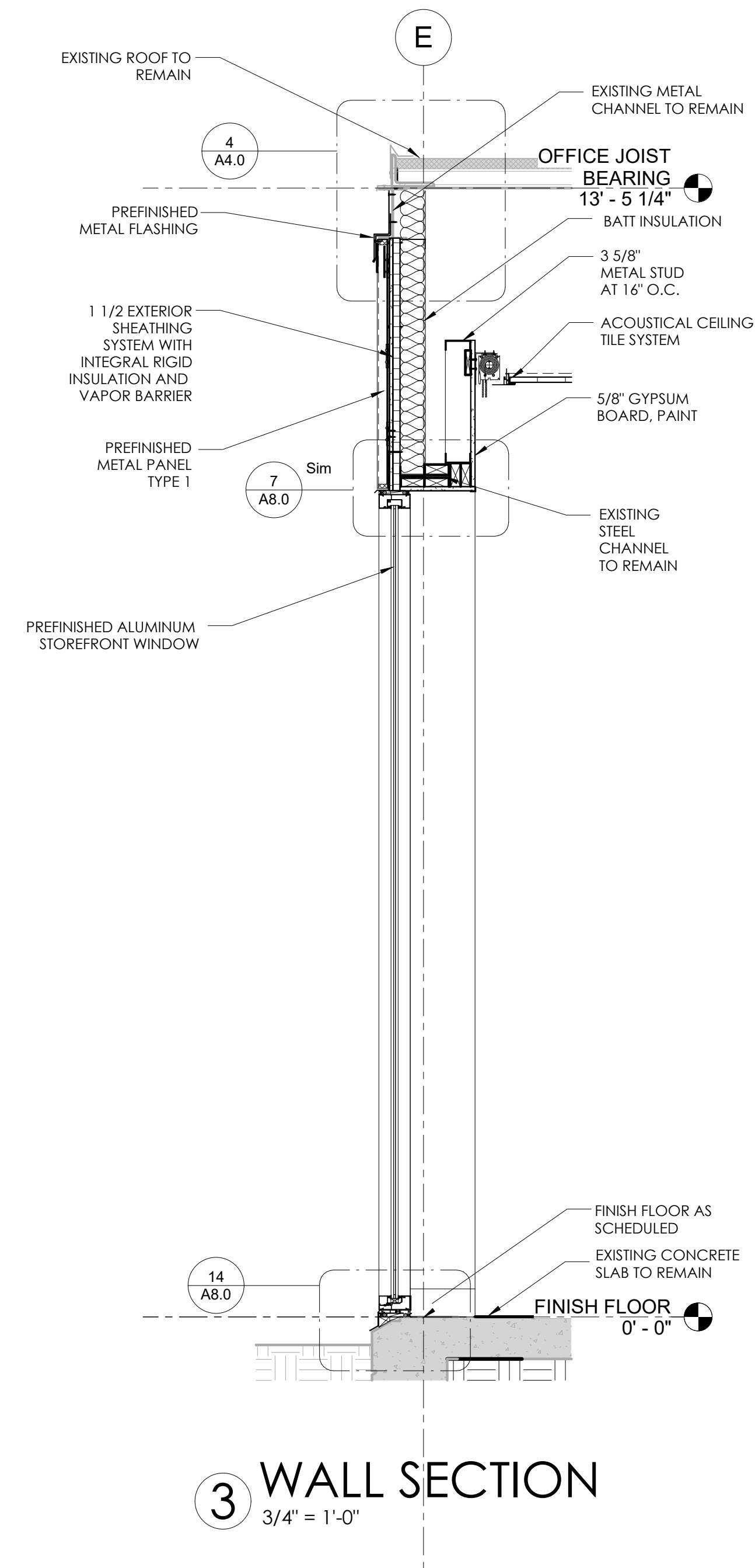
04.18.2025 12:29:21 PM



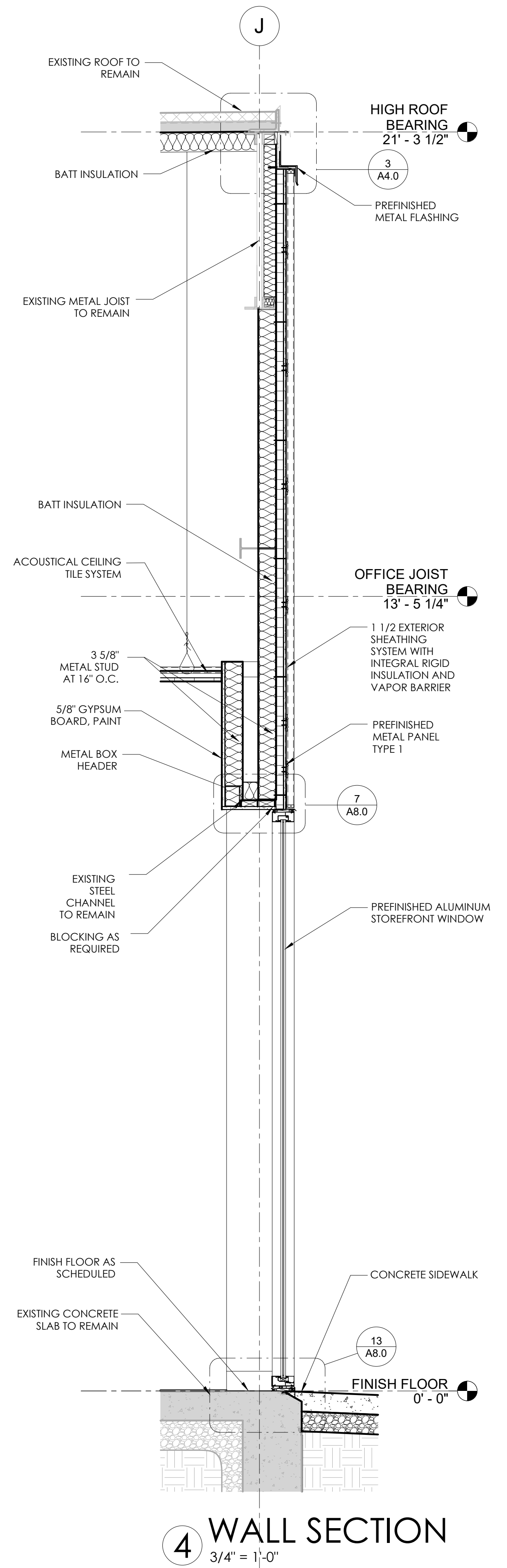
① WALL SECTION
3/4" = 1'-0"



② WALL SECTION
3/4" = 1'-0"

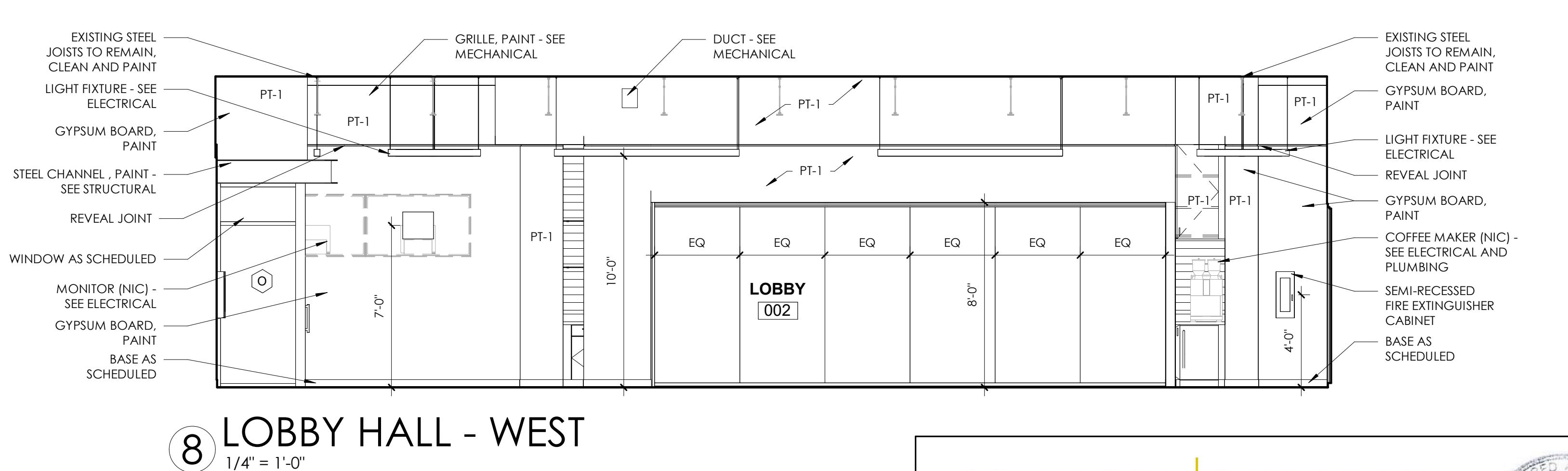
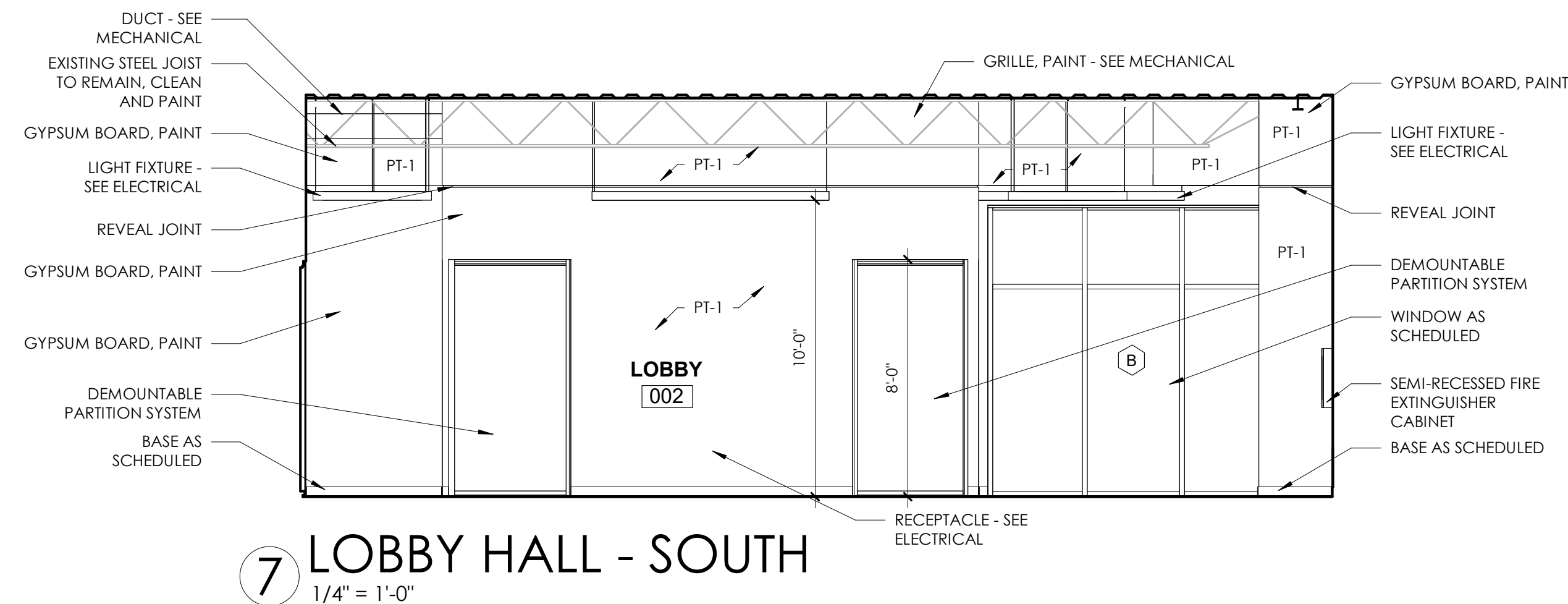
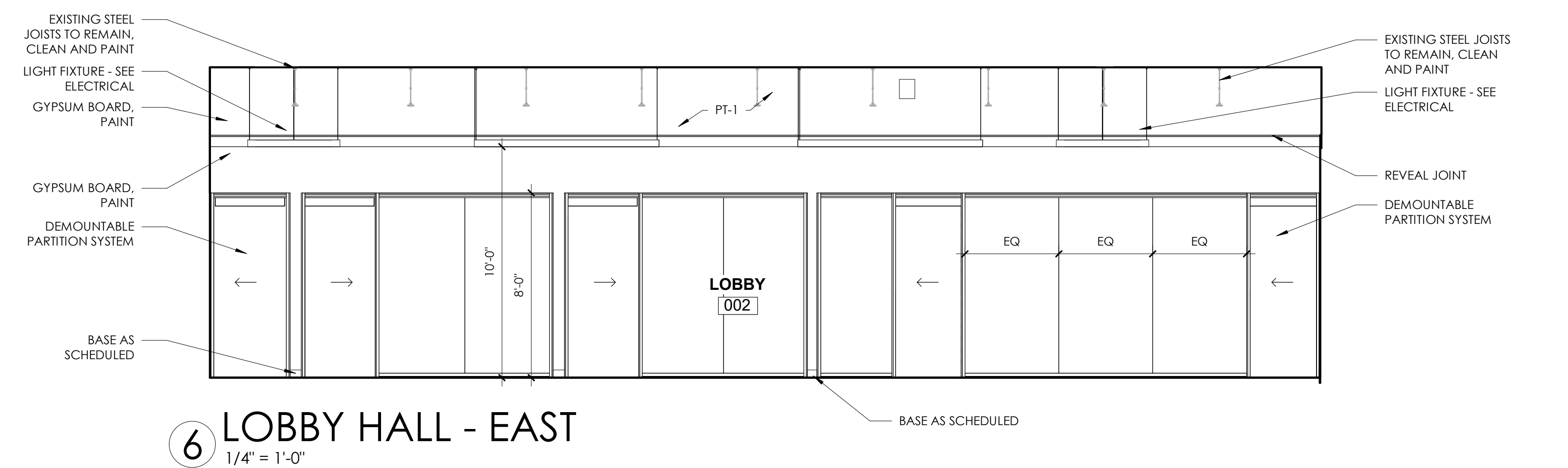
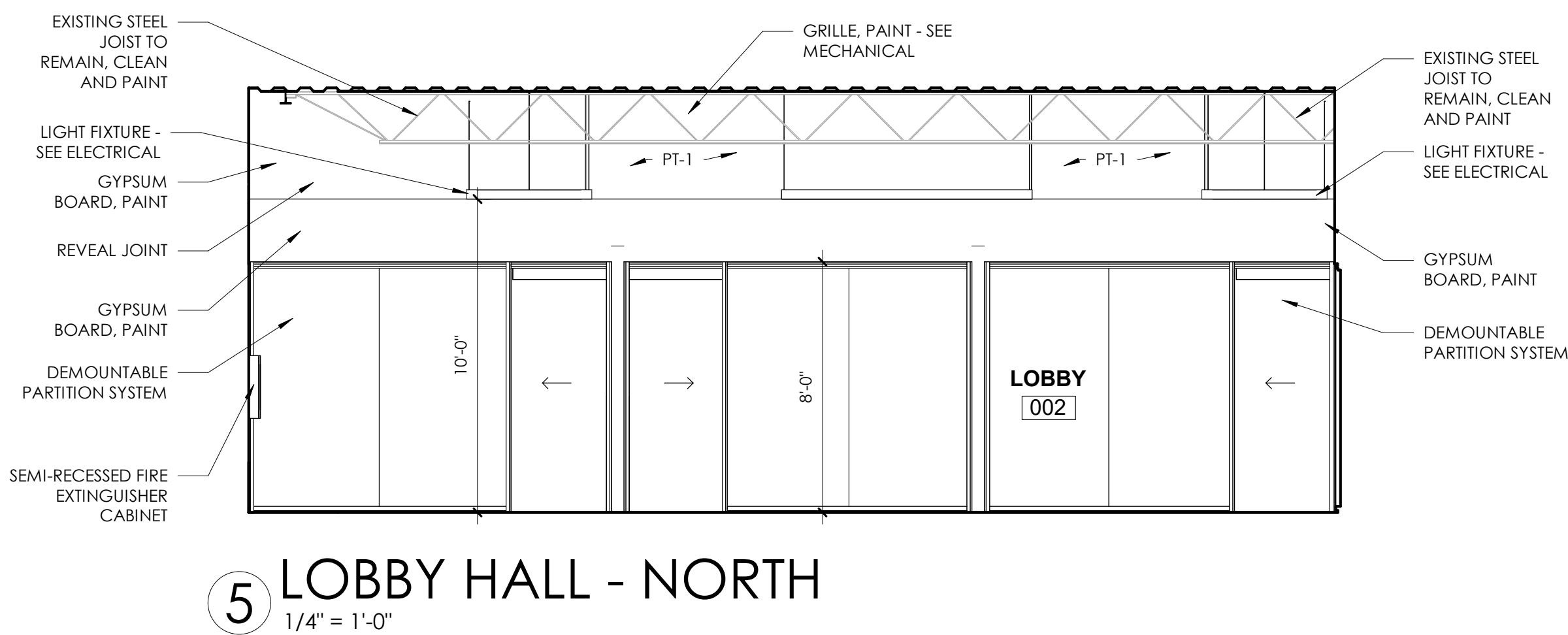
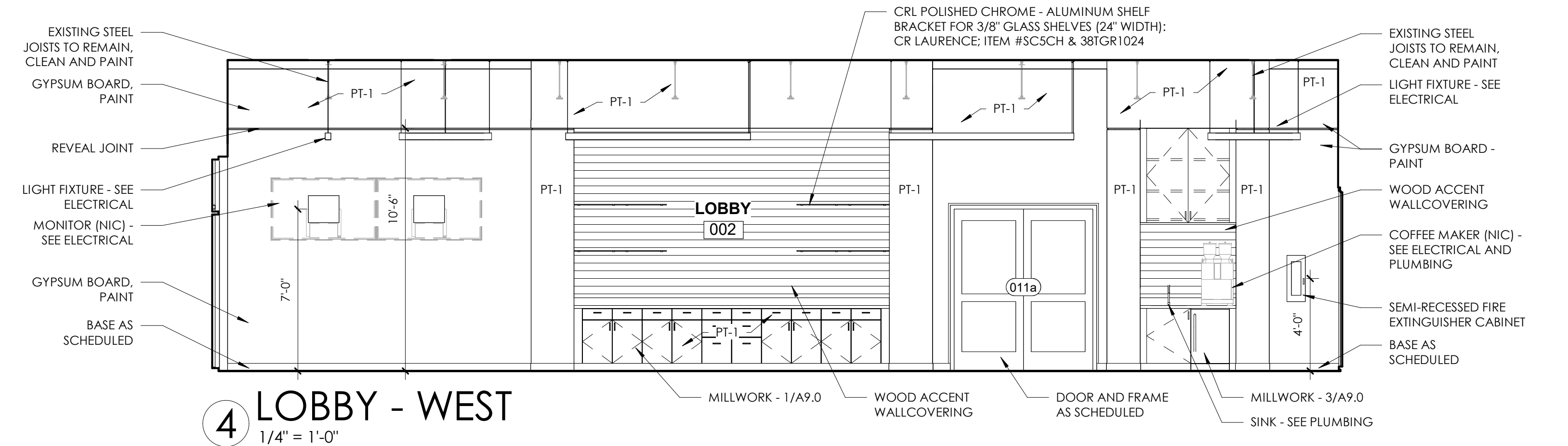
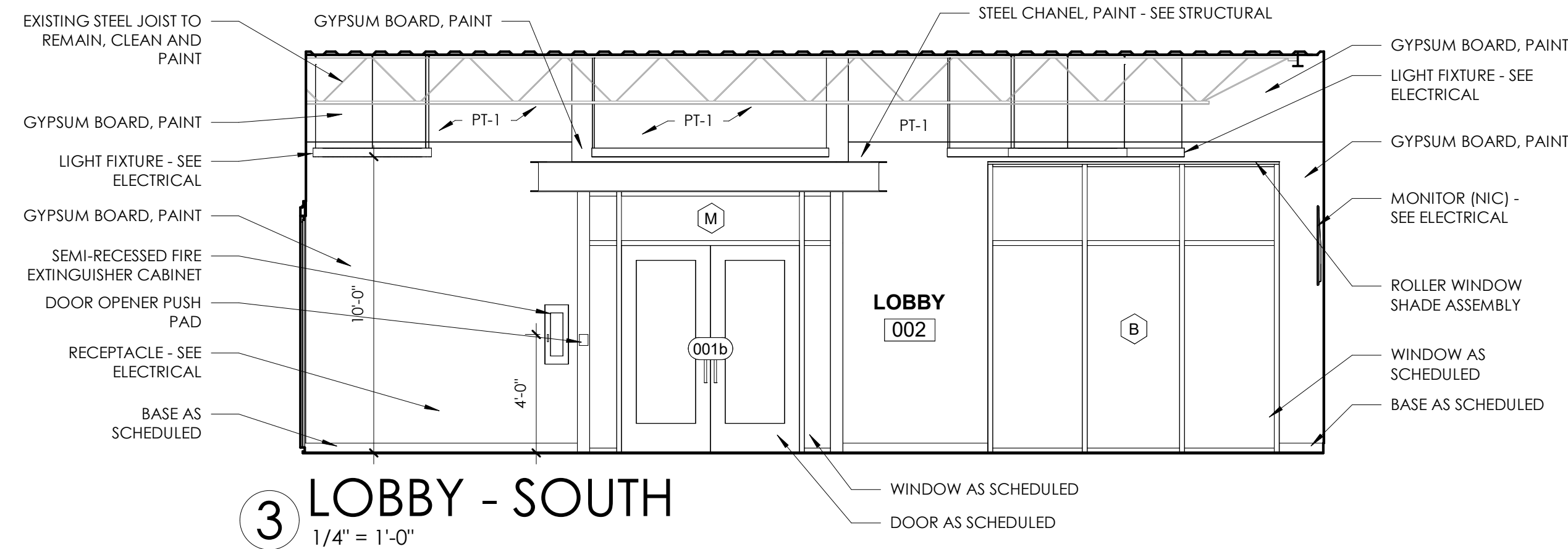
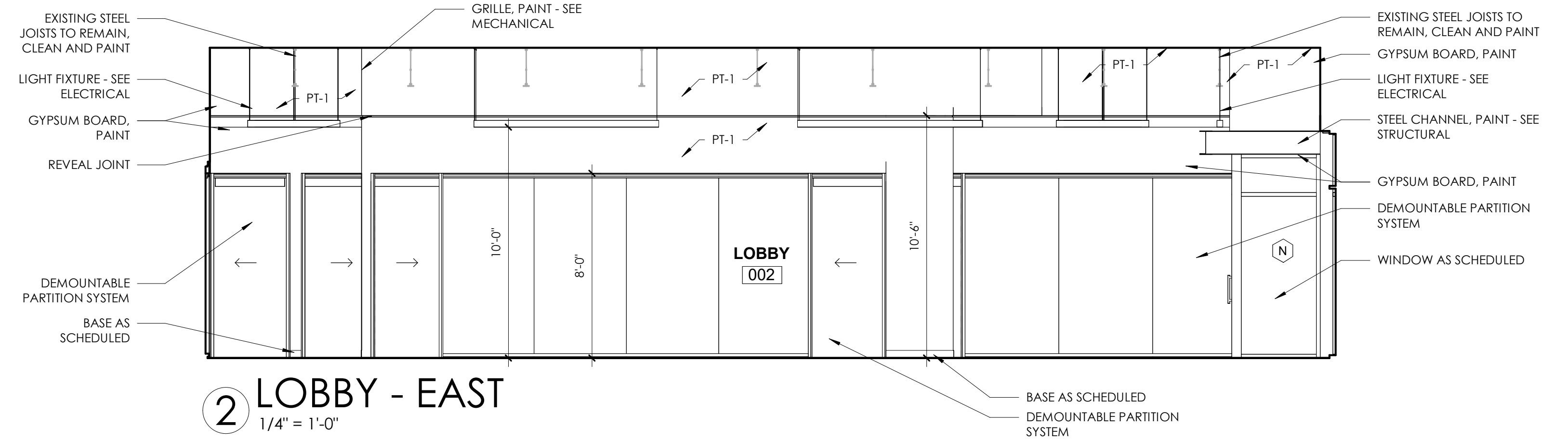
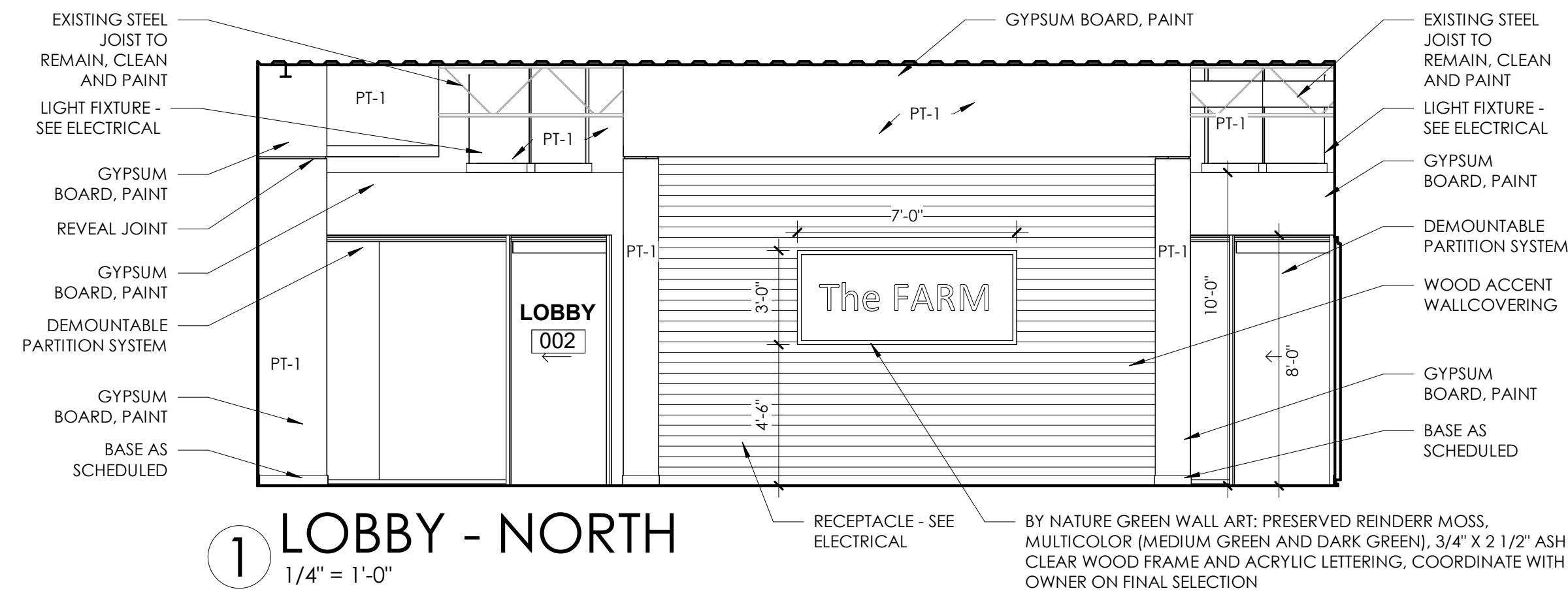


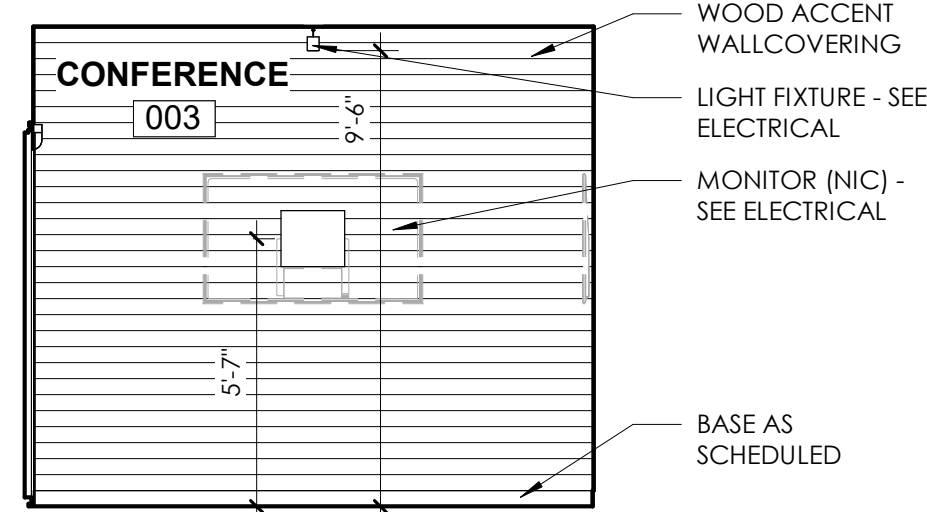
③ WALL SECTION
3/4" = 1'-0"



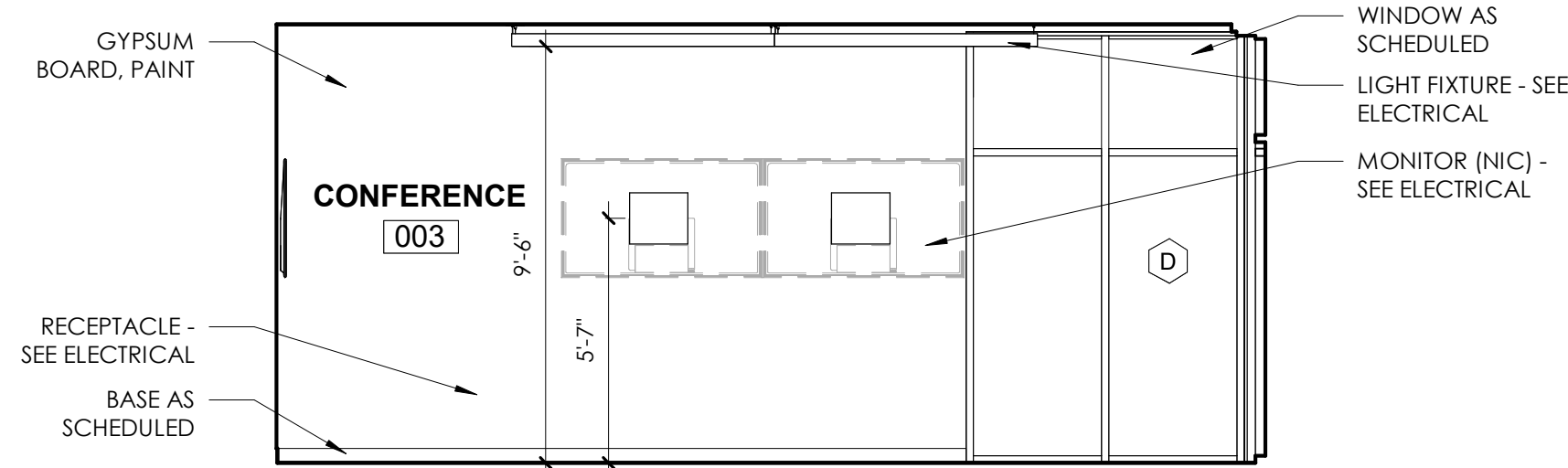
④ WALL SECTION
3/4" = 1'-0"



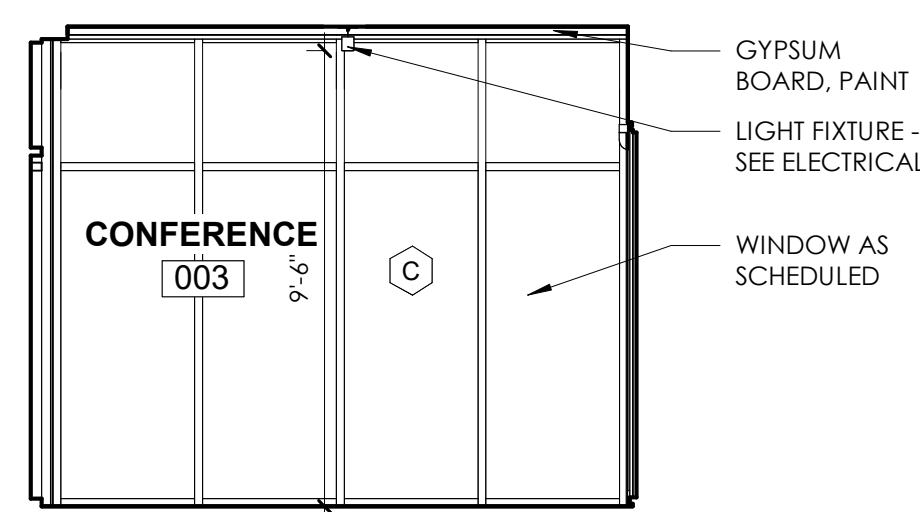




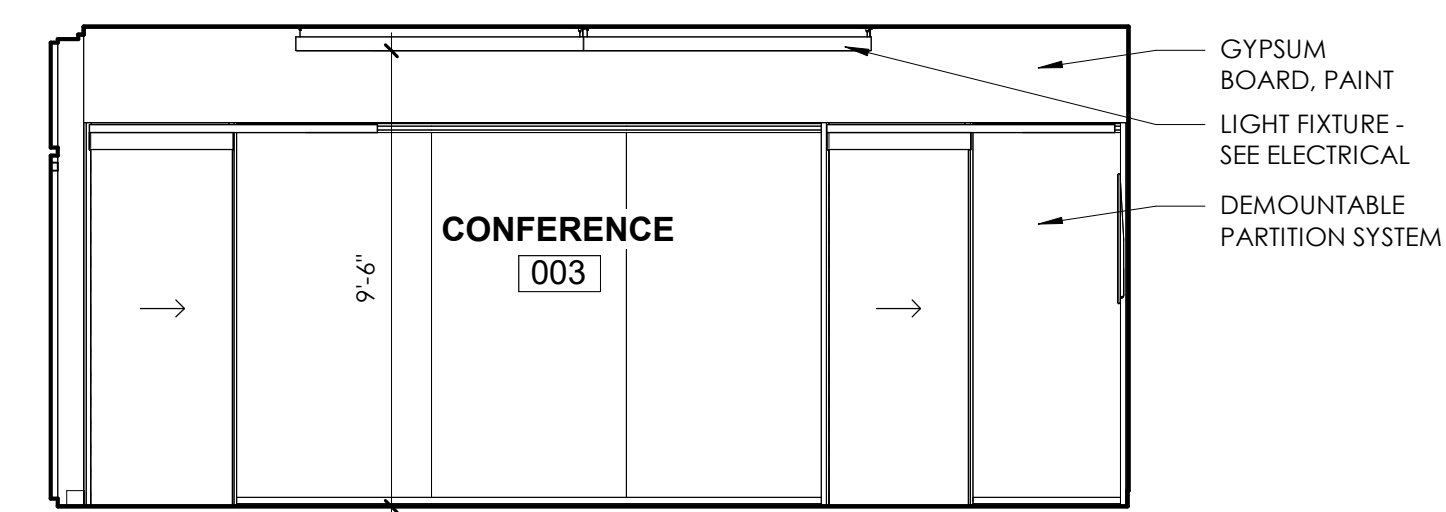
1 CONFERENCE - NORTH
1/4" = 1'-0"



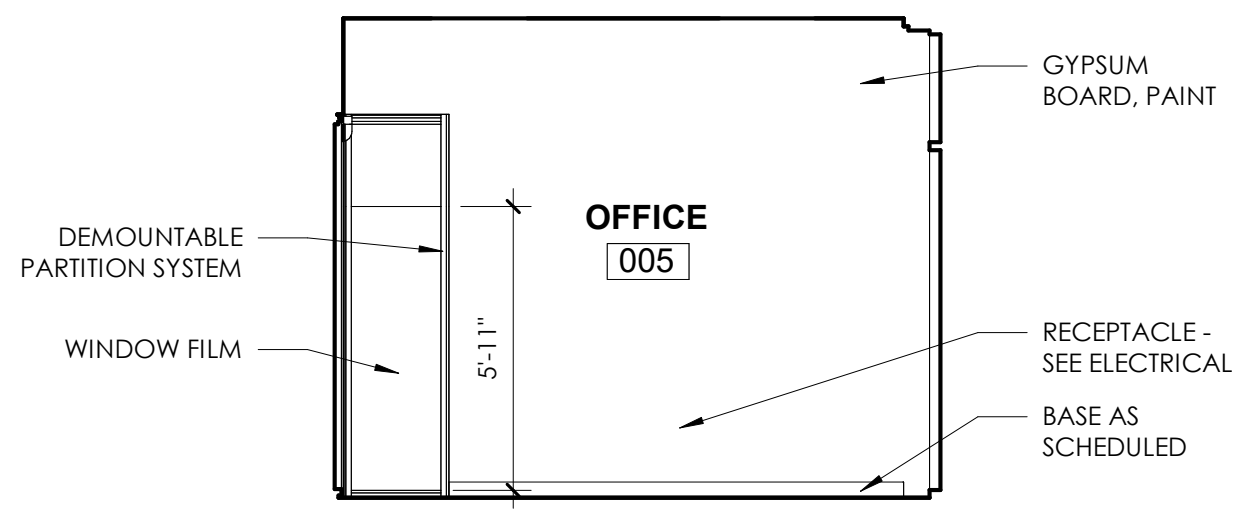
2 CONFERENCE - EAST
1/4" = 1'-0"



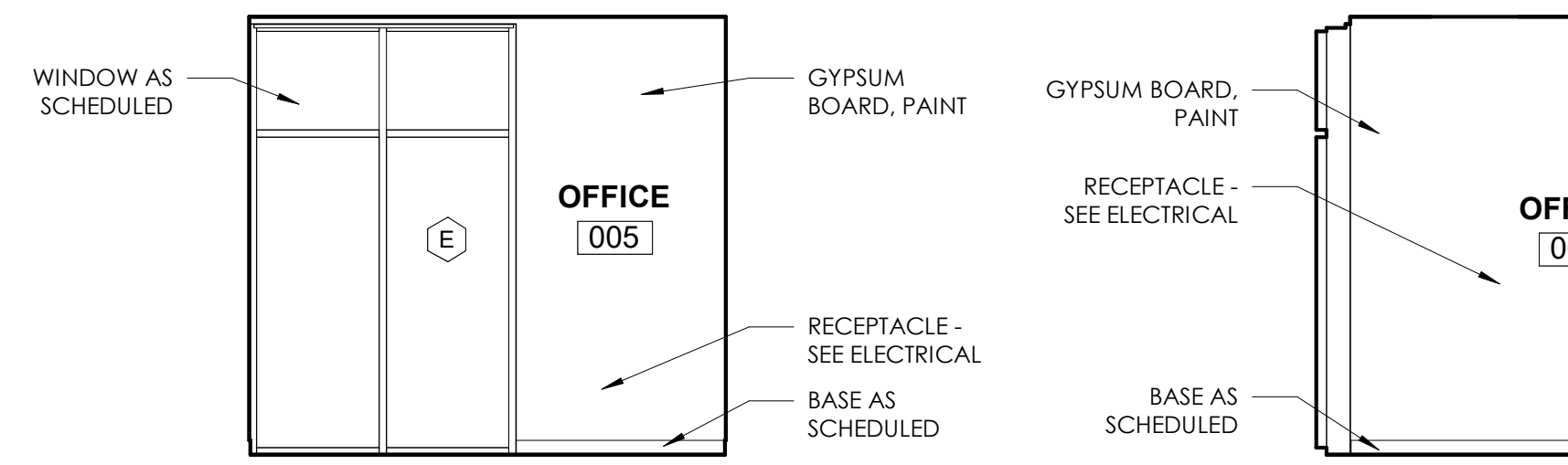
3 CONFERENCE - SOUTH
1/4" = 1'-0"



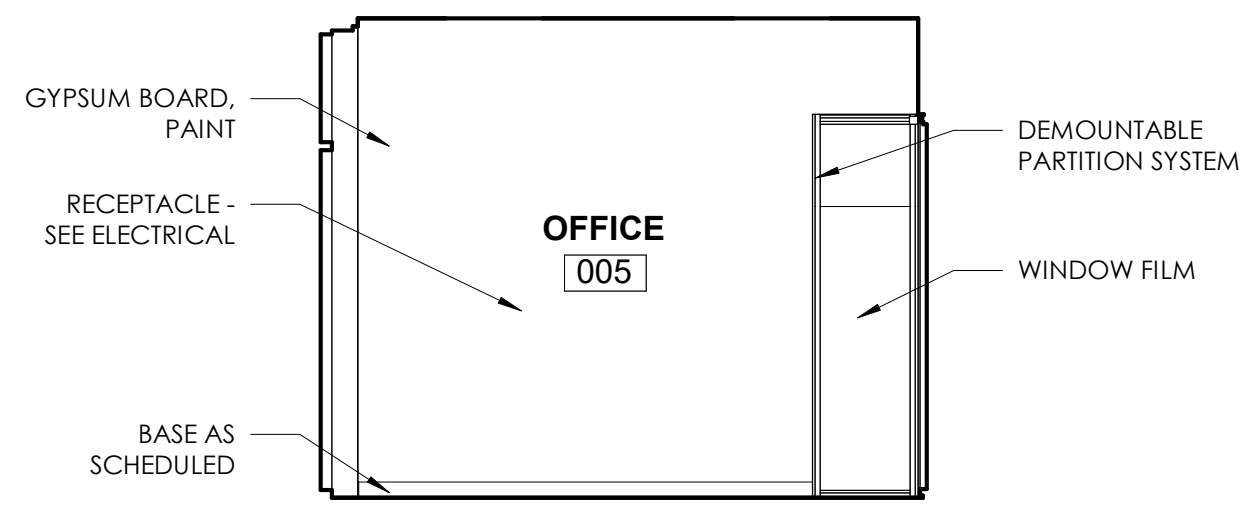
4 CONFERENCE - WEST
1/4" = 1'-0"



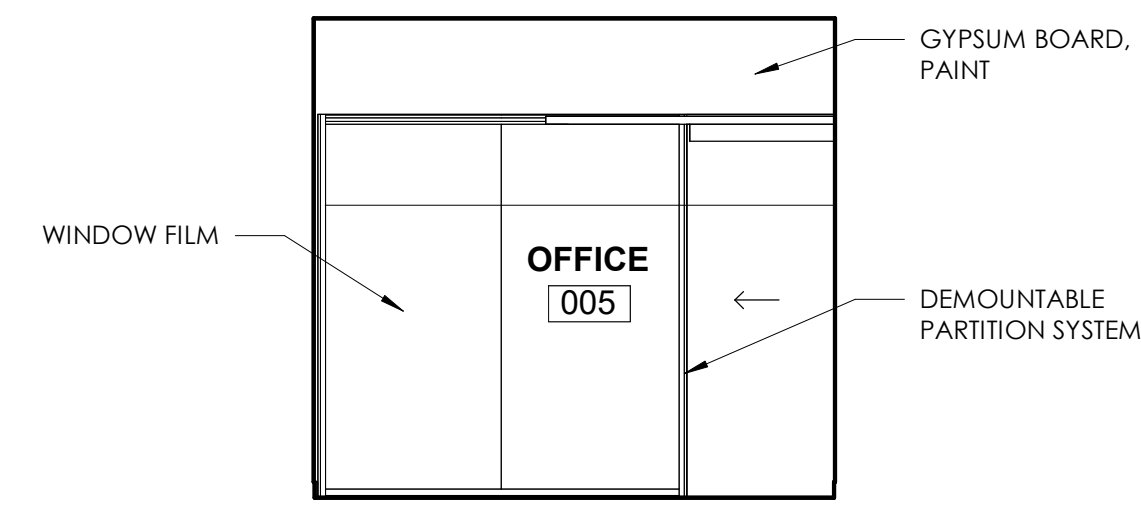
5 TYPICAL OFFICE - NORTH
1/4" = 1'-0"



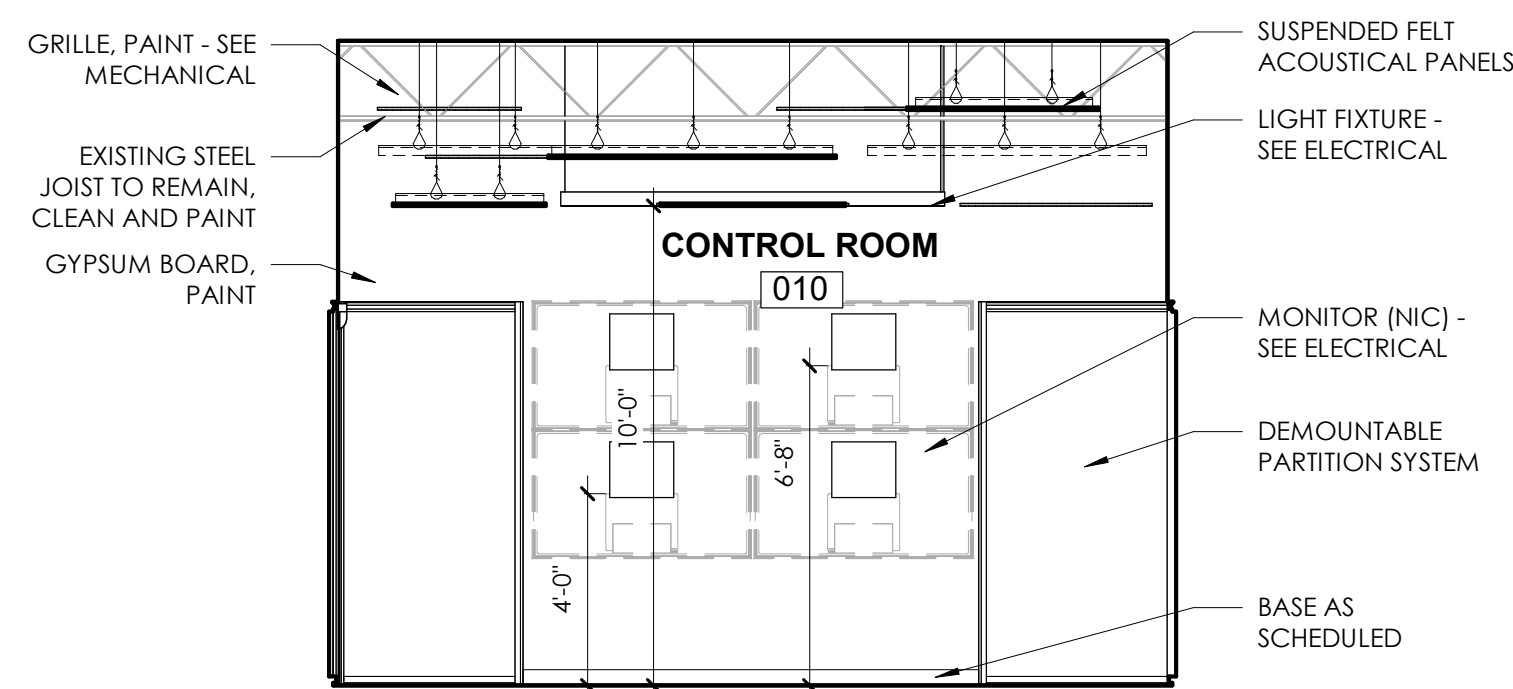
6 TYPICAL OFFICE - EAST
1/4" = 1'-0"



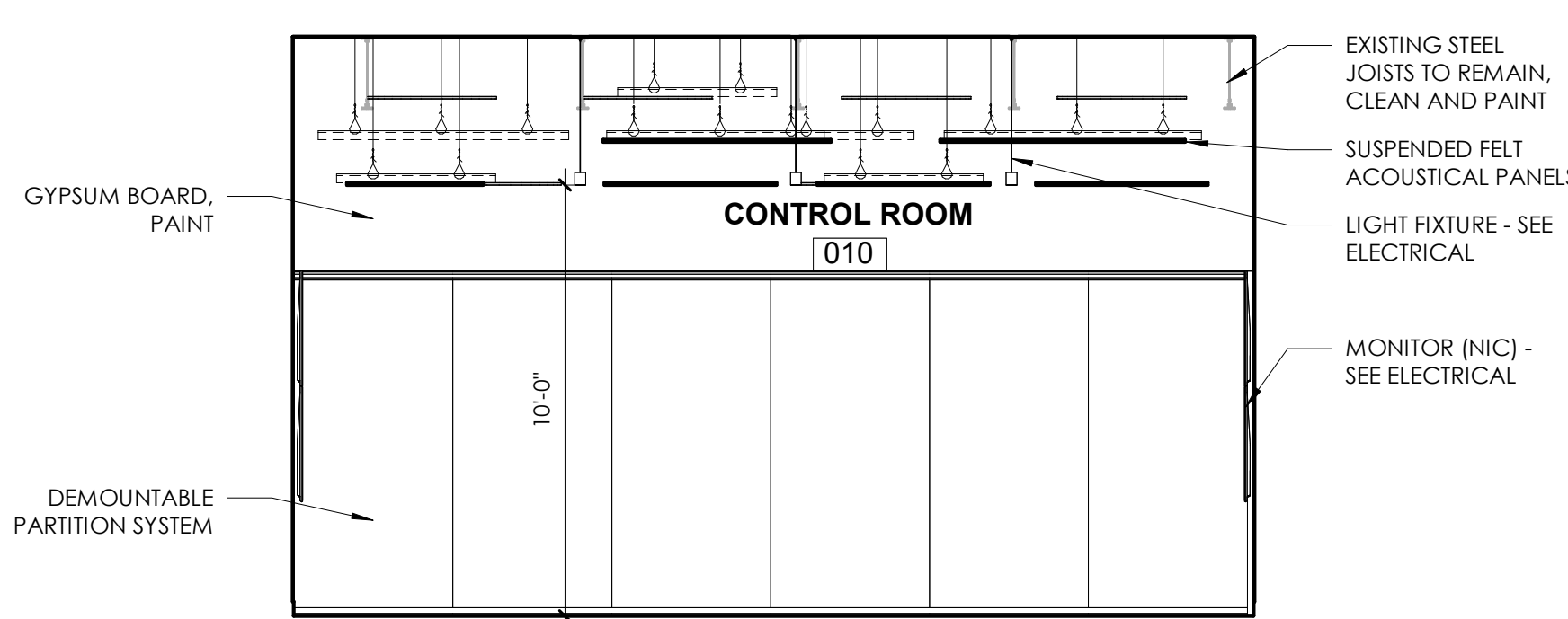
7 TYPICAL OFFICE - SOUTH
1/4" = 1'-0"



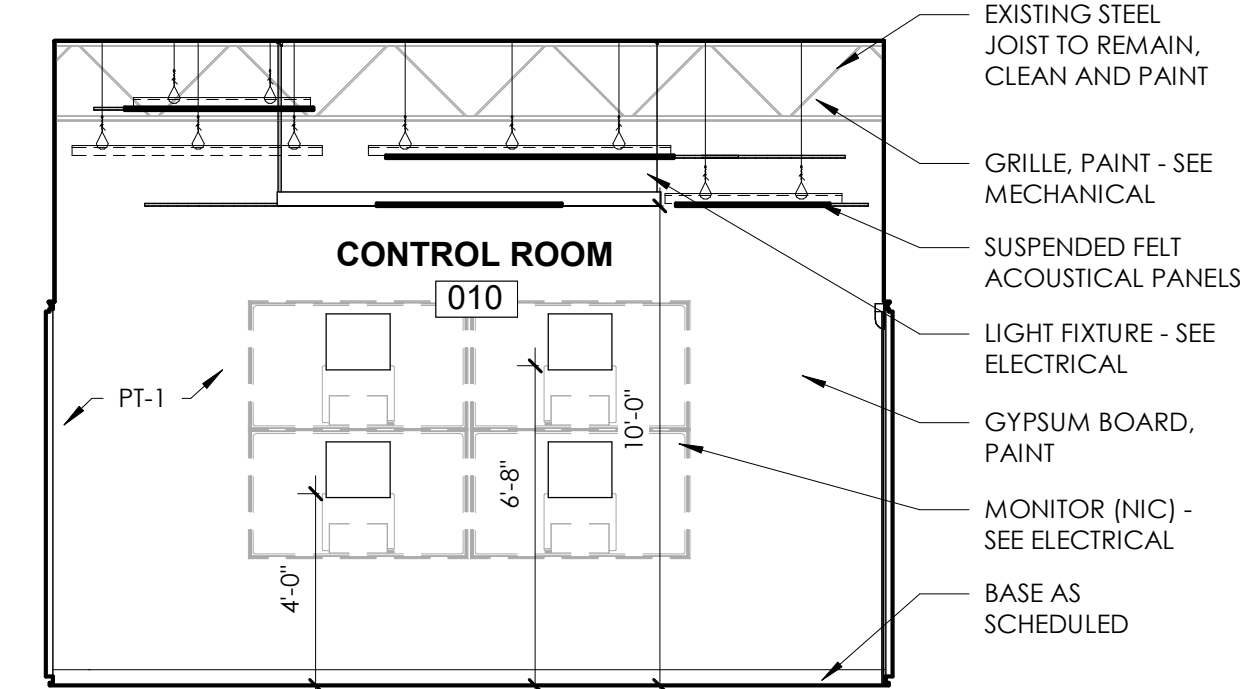
8 TYPICAL OFFICE - WEST
1/4" = 1'-0"



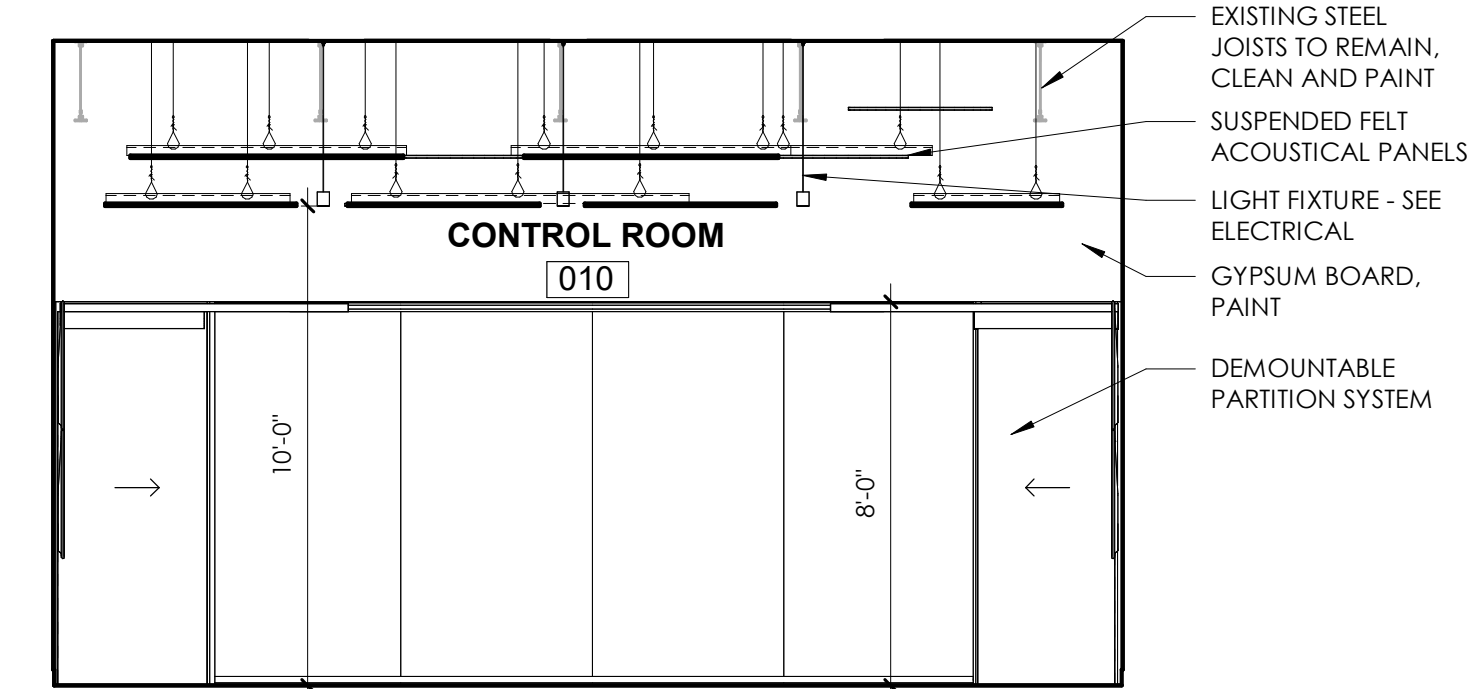
9 CONTROL ROOM - NORTH
1/4" = 1'-0"



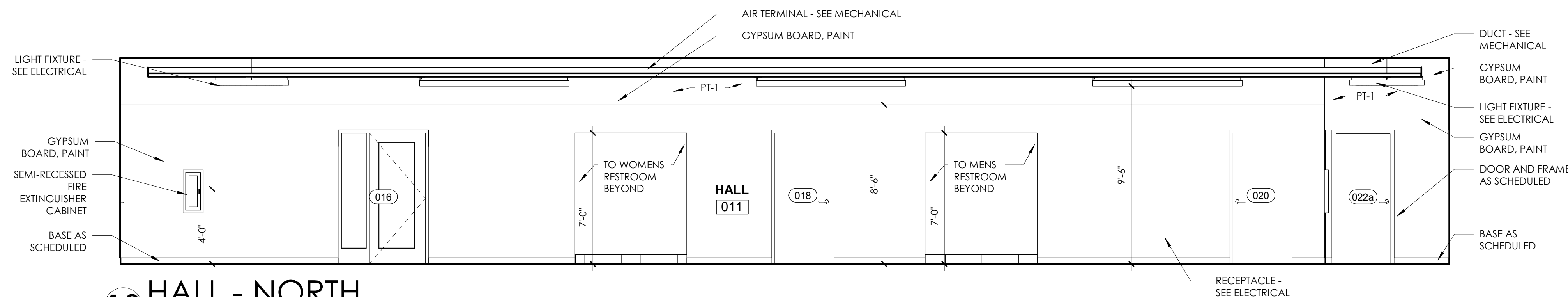
10 CONTROL ROOM - EAST
1/4" = 1'-0"



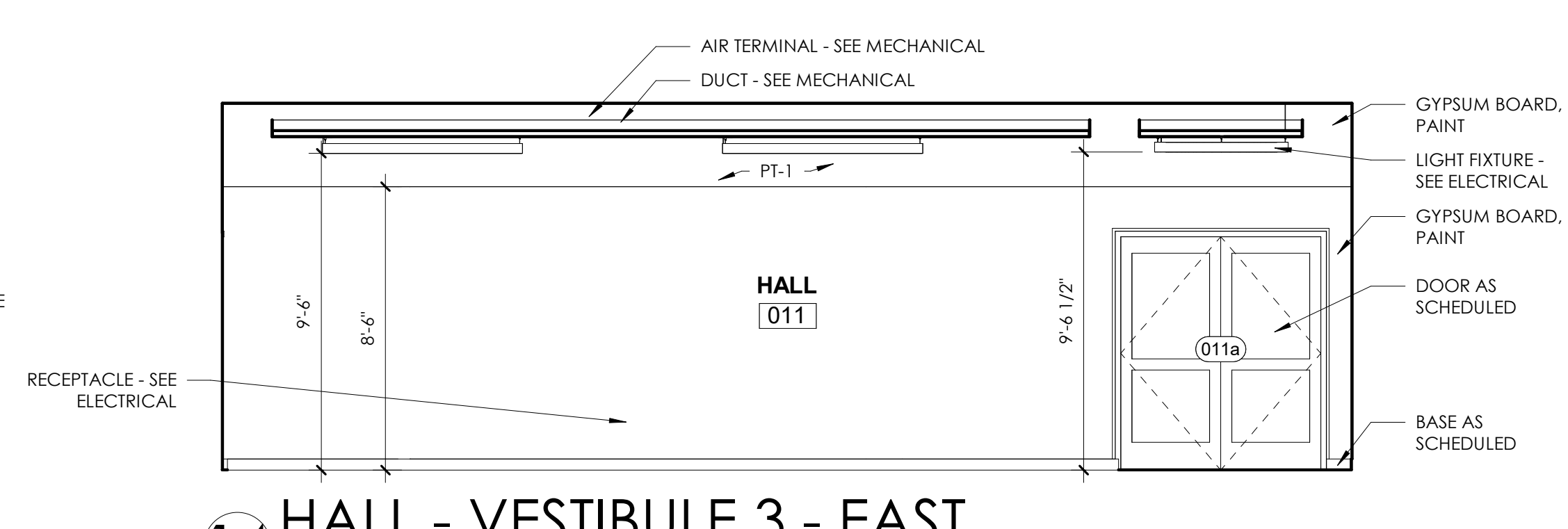
11 CONTROL ROOM - SOUTH
1/4" = 1'-0"



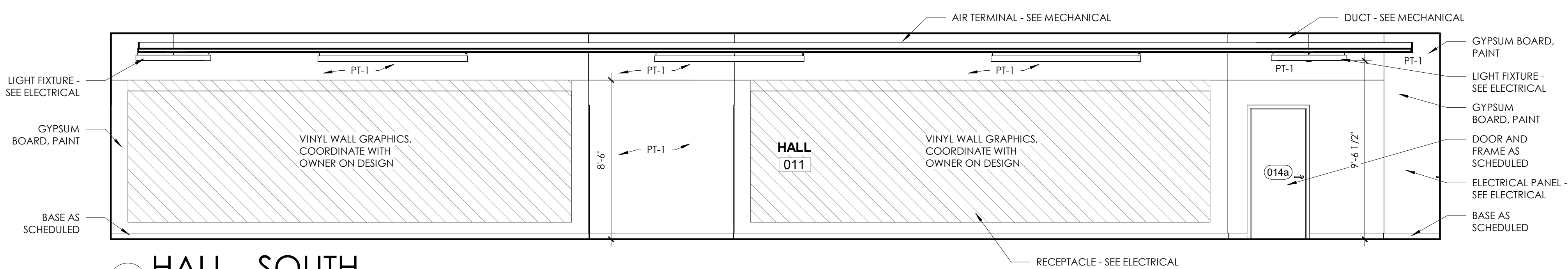
12 CONTROL ROOM - WEST
1/4" = 1'-0"



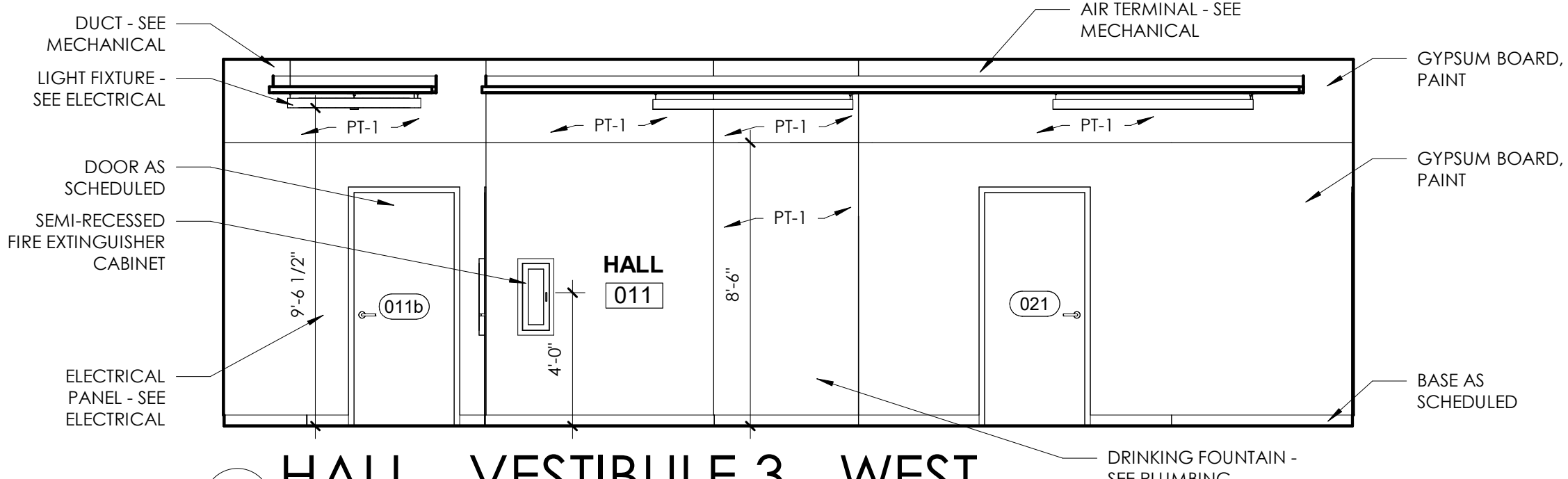
13 HALL - NORTH
1/4" = 1'-0"



14 HALL - VESTIBULE 3 - EAST
1/4" = 1'-0"



15 HALL - SOUTH
1/4" = 1'-0"



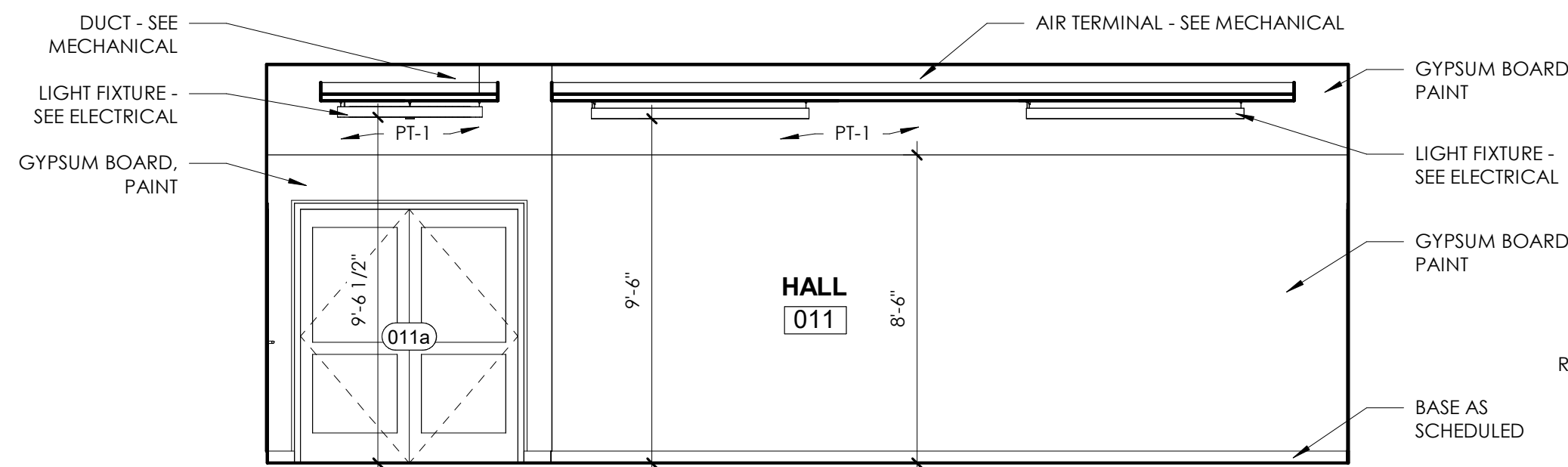
16 HALL - VESTIBULE 3 - WEST
1/4" = 1'-0"

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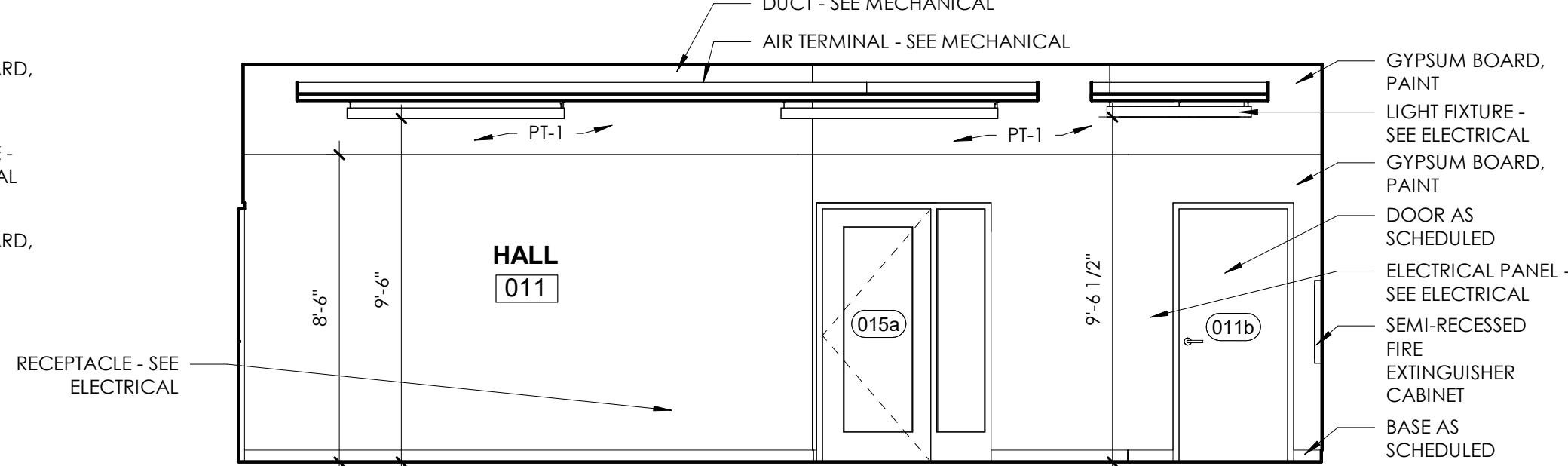
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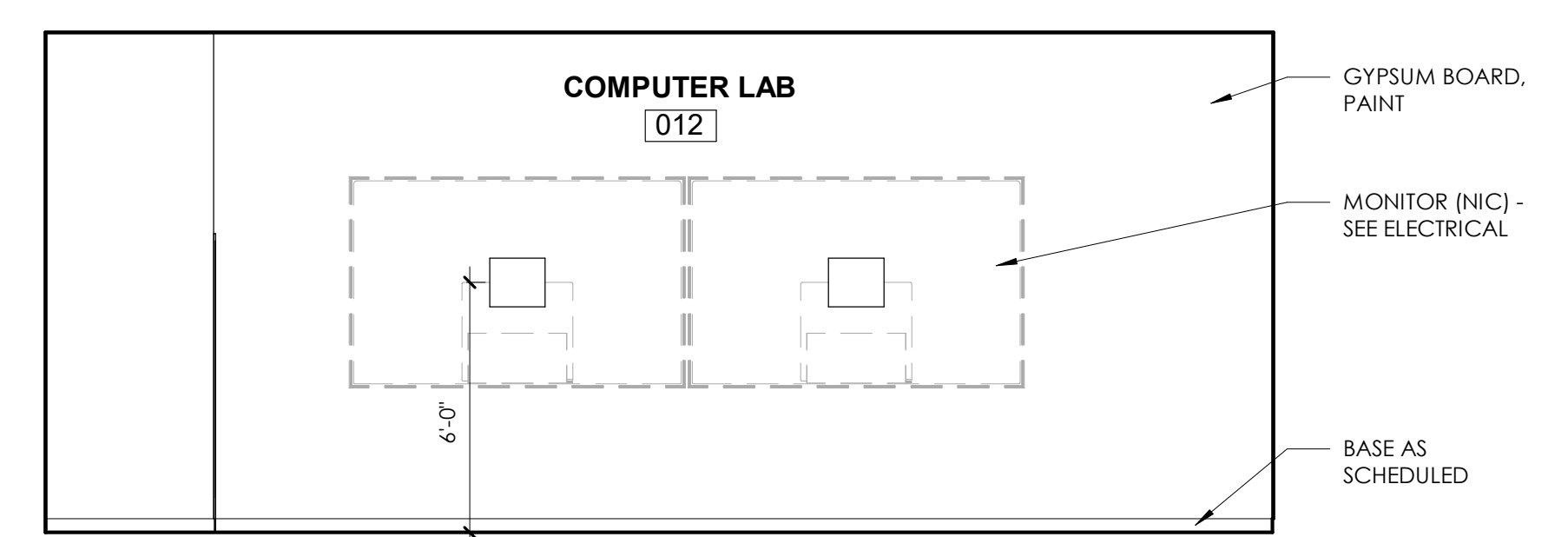




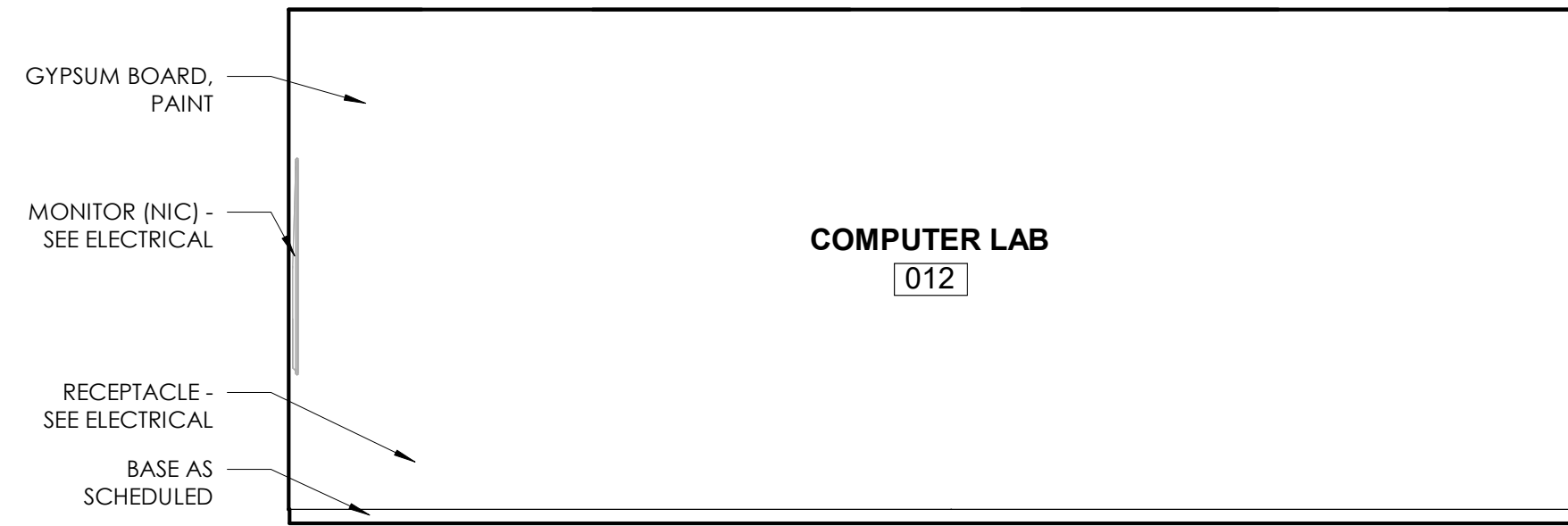
1 HALL - VESTIBULE 2 - EAST
1/4" = 1'-0"



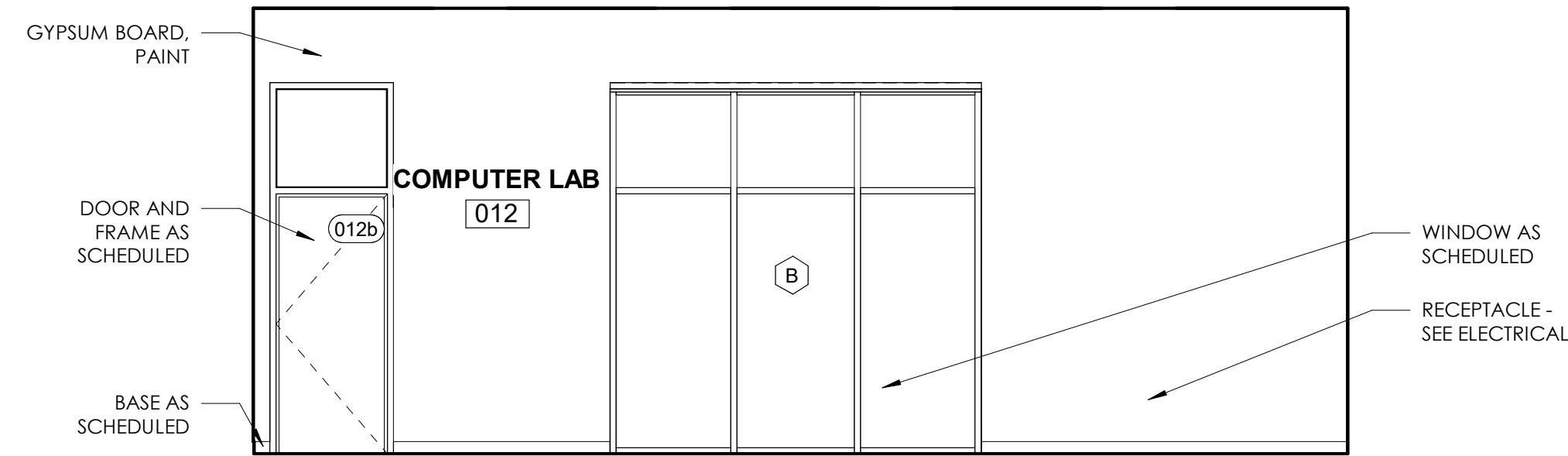
2 HALL - VESTIBULE 2 - WEST
1/4" = 1'-0"



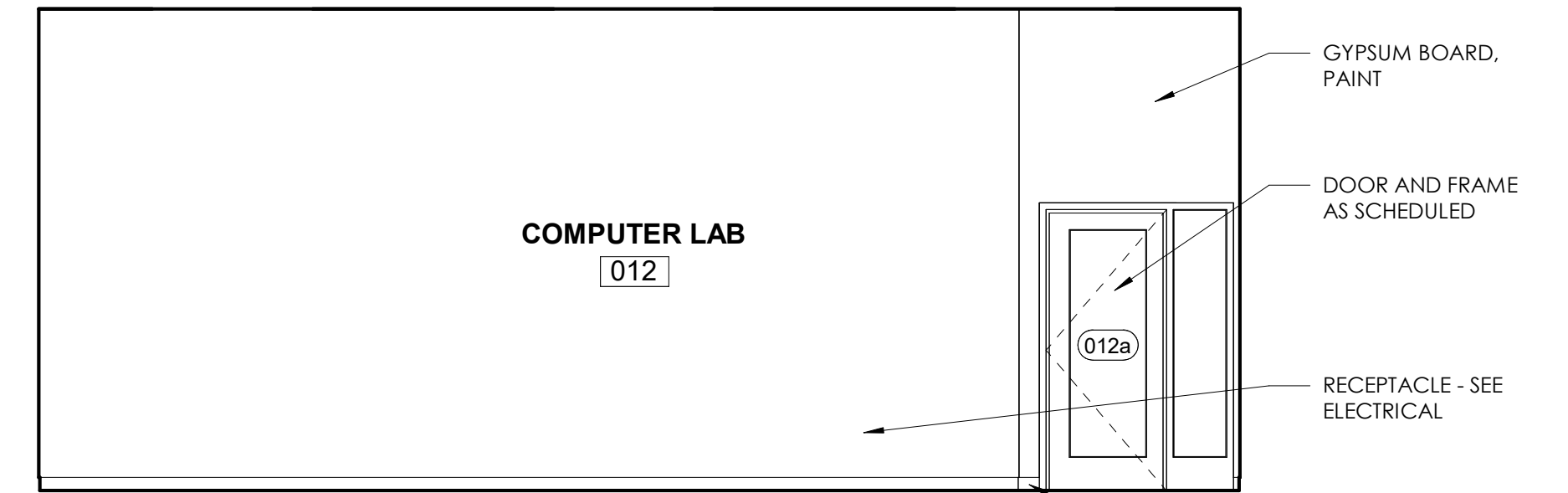
3 COMPUTER LAB - NORTH
1/4" = 1'-0"



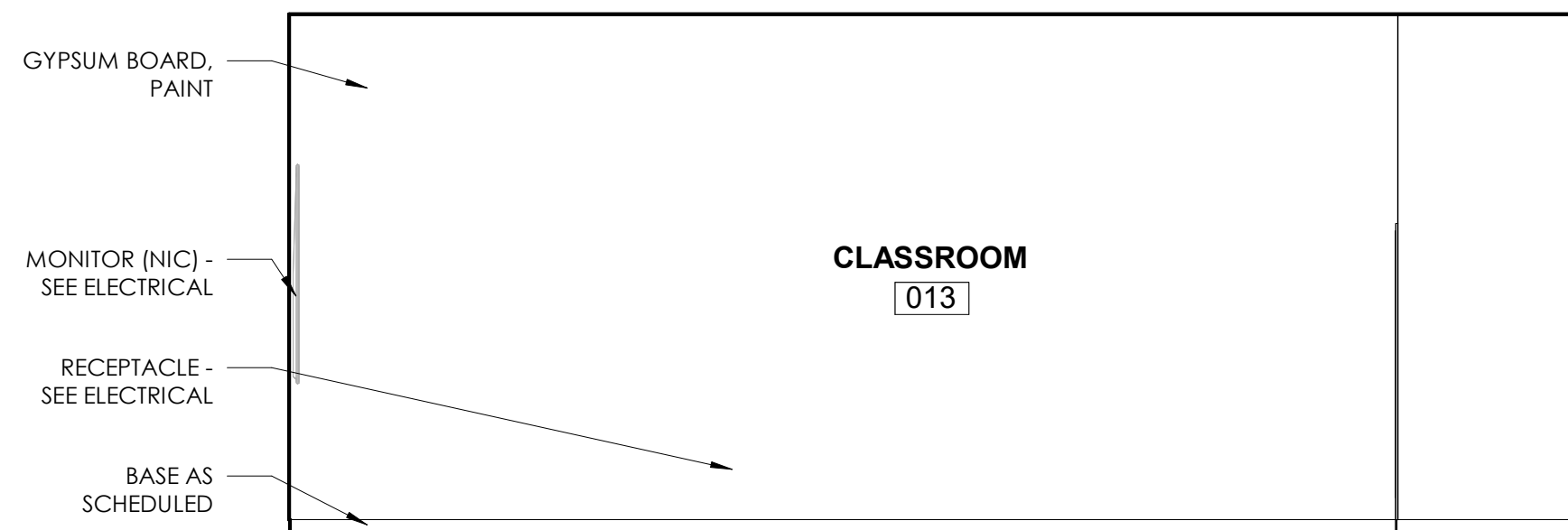
4 COMPUTER LAB - EAST
1/4" = 1'-0"



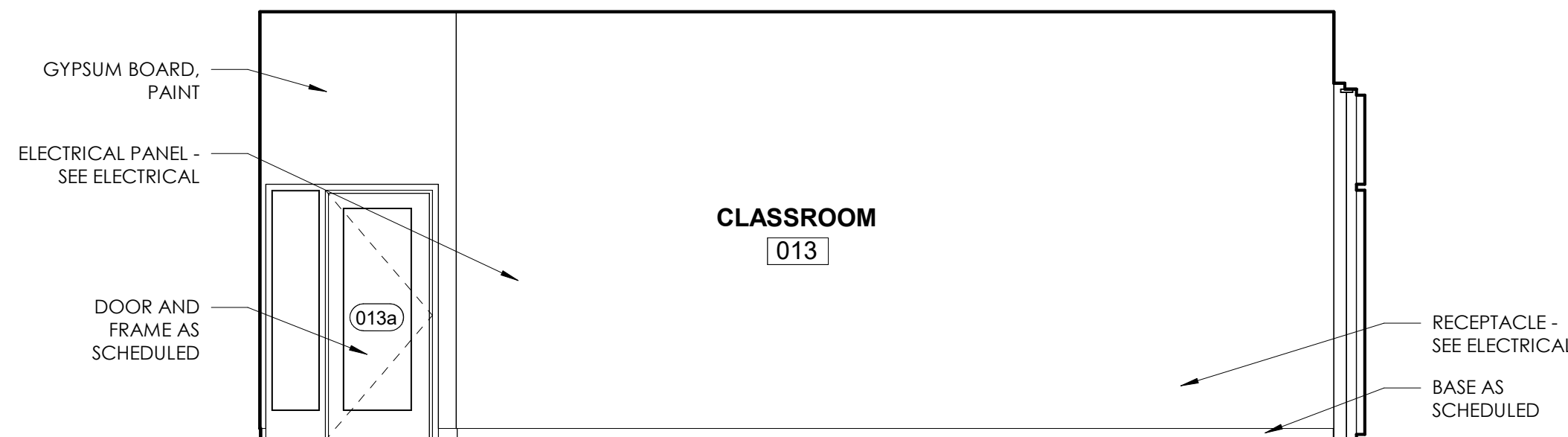
5 COMPUTER LAB - SOUTH
1/4" = 1'-0"



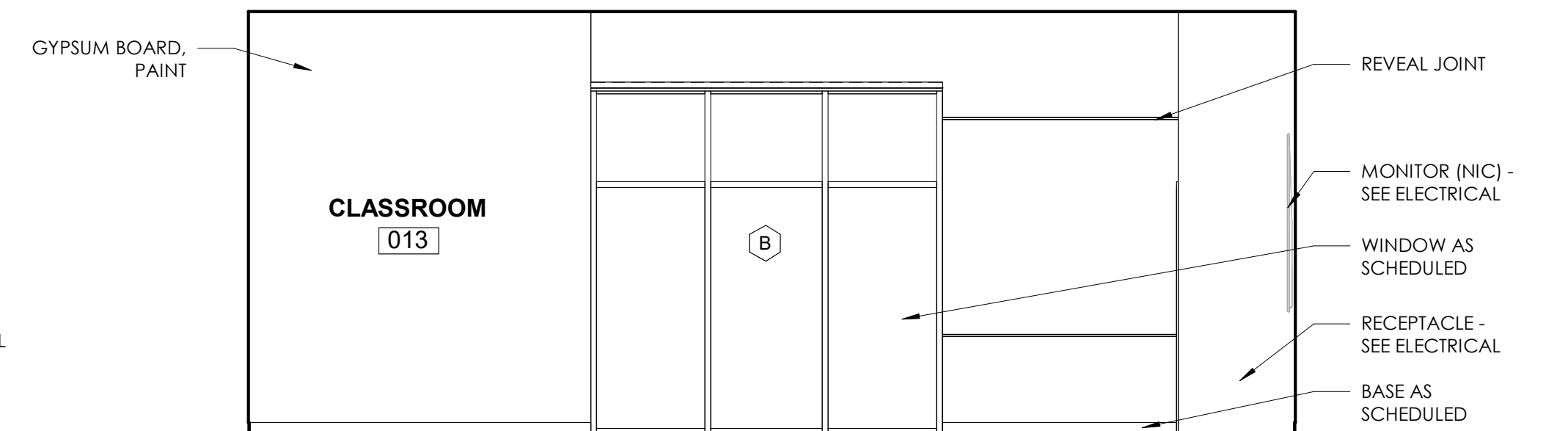
6 COMPUTER LAB - WEST
1/4" = 1'-0"



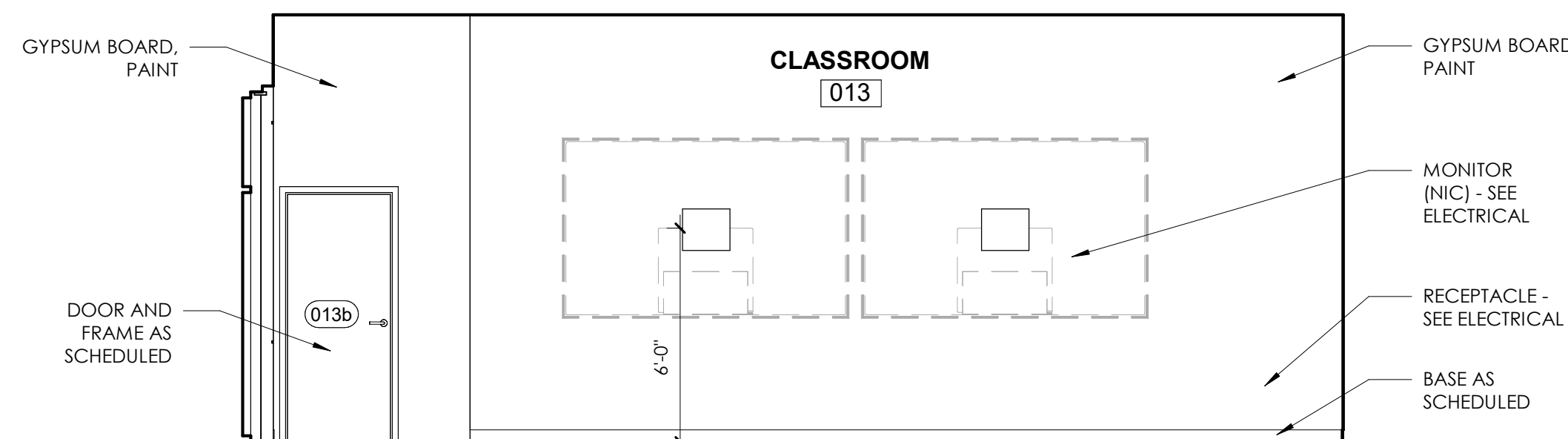
7 CLASSROOM 013 - NORTH
1/4" = 1'-0"



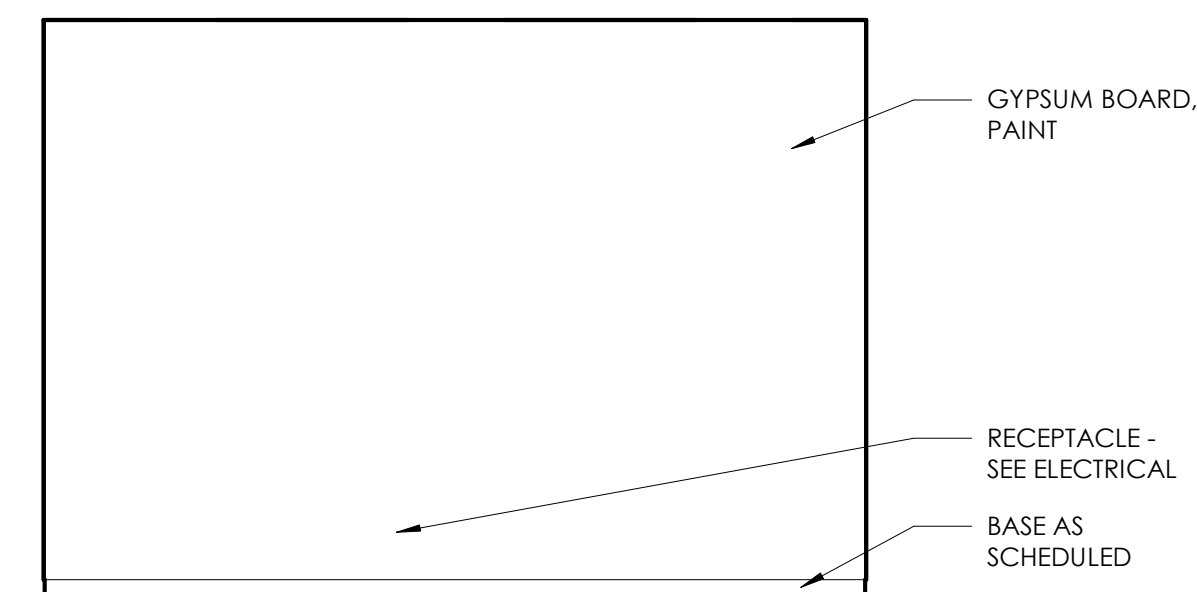
8 CLASSROOM 013 - EAST
1/4" = 1'-0"



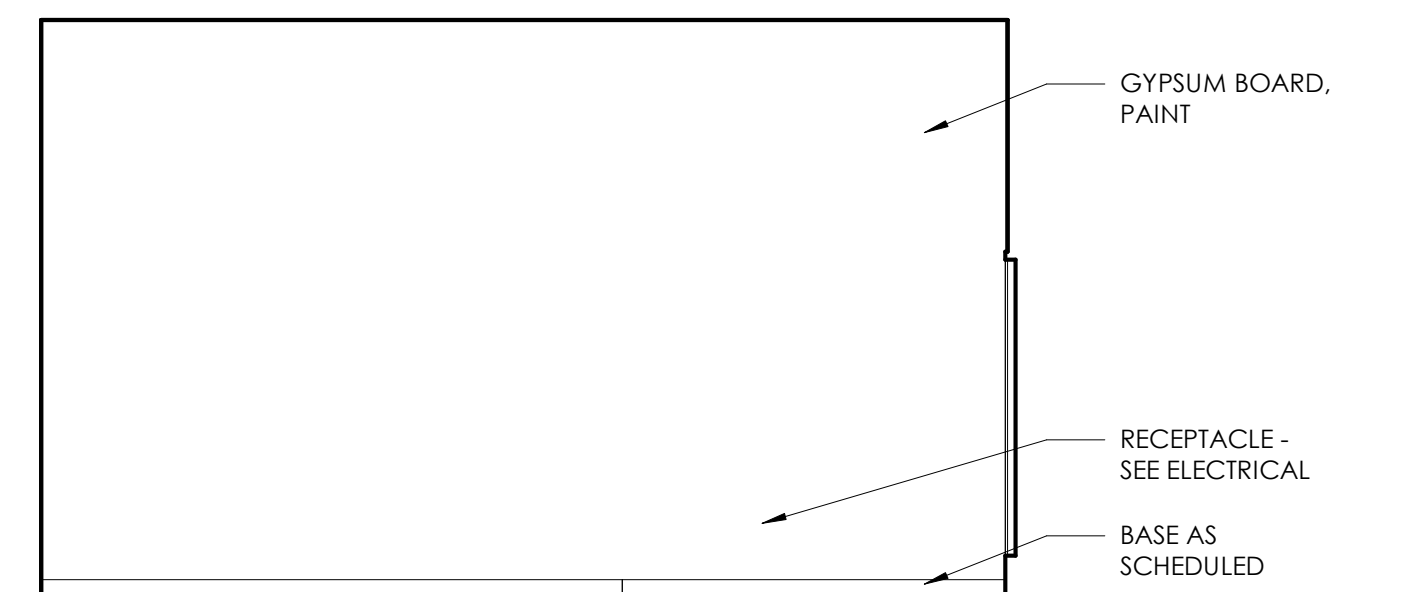
9 CLASSROOM 013 - SOUTH
1/4" = 1'-0"



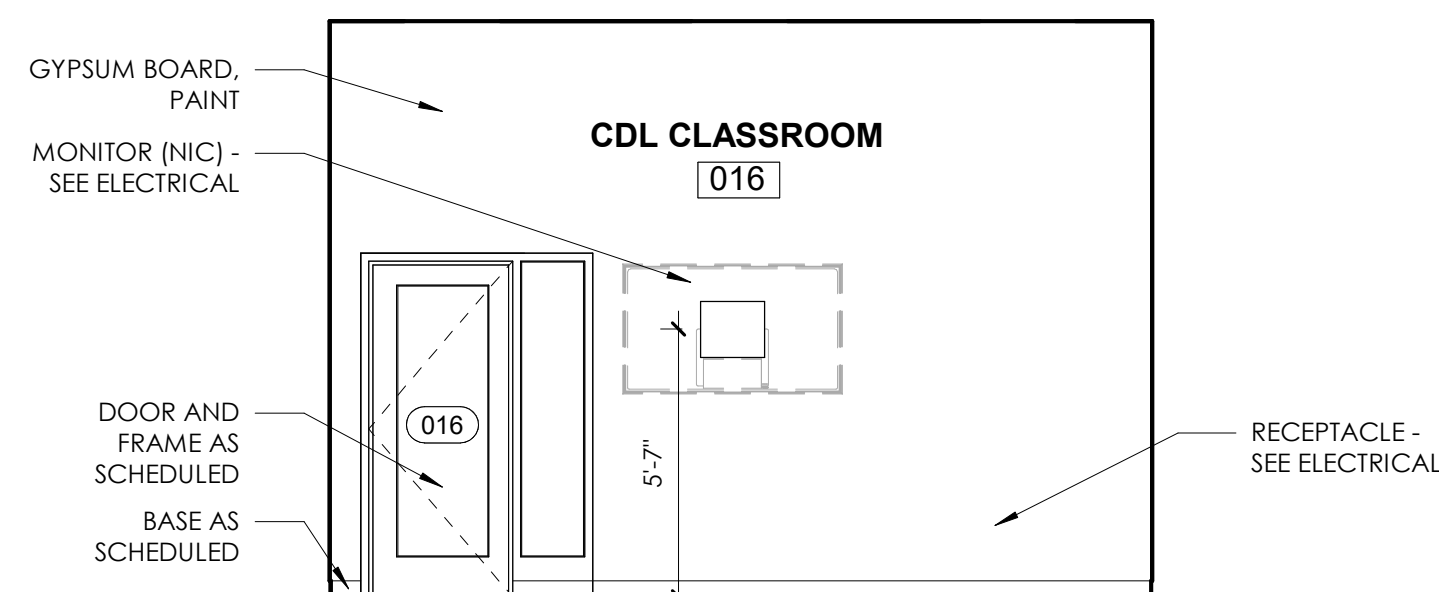
10 CLASSROOM 013 - WEST
1/4" = 1'-0"



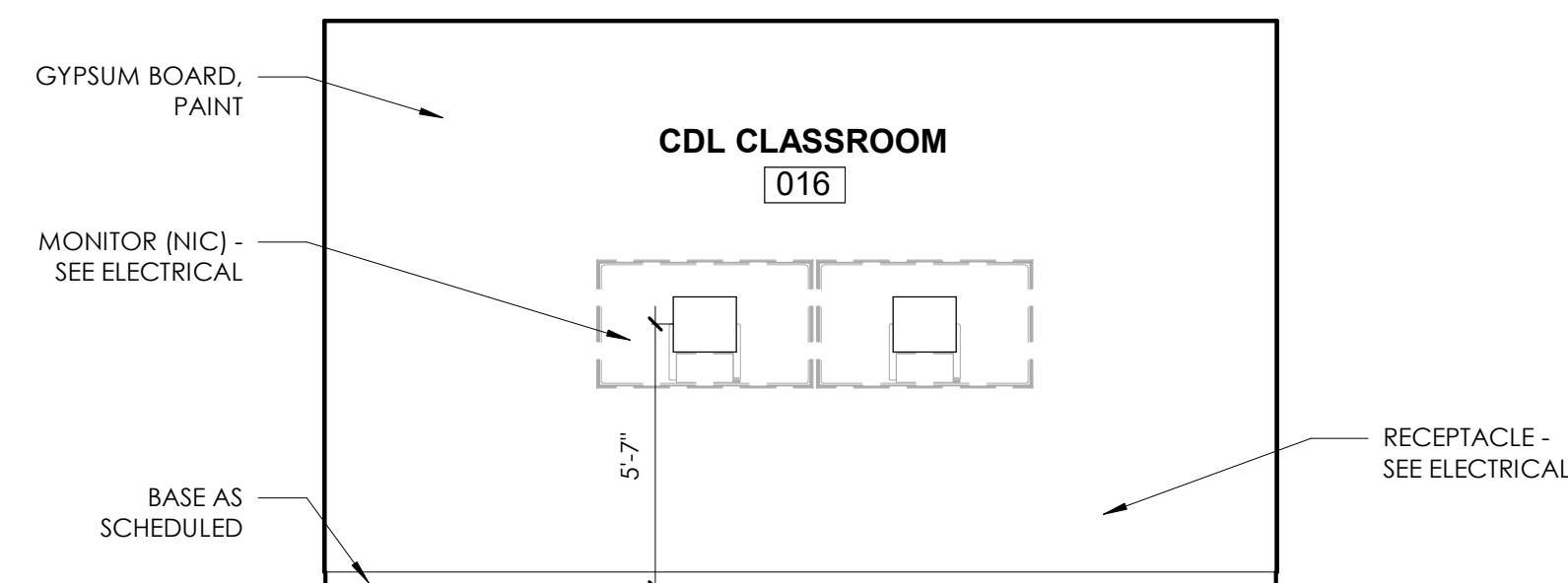
11 CDL CLASSROOM - NORTH
1/4" = 1'-0"



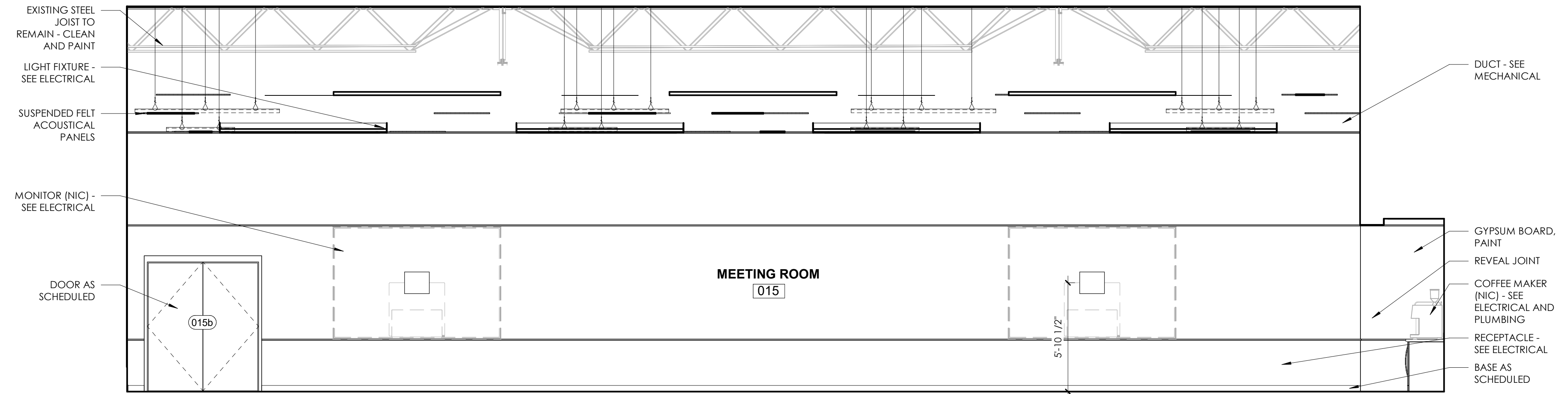
12 CDL CLASSROOM - EAST
1/4" = 1'-0"



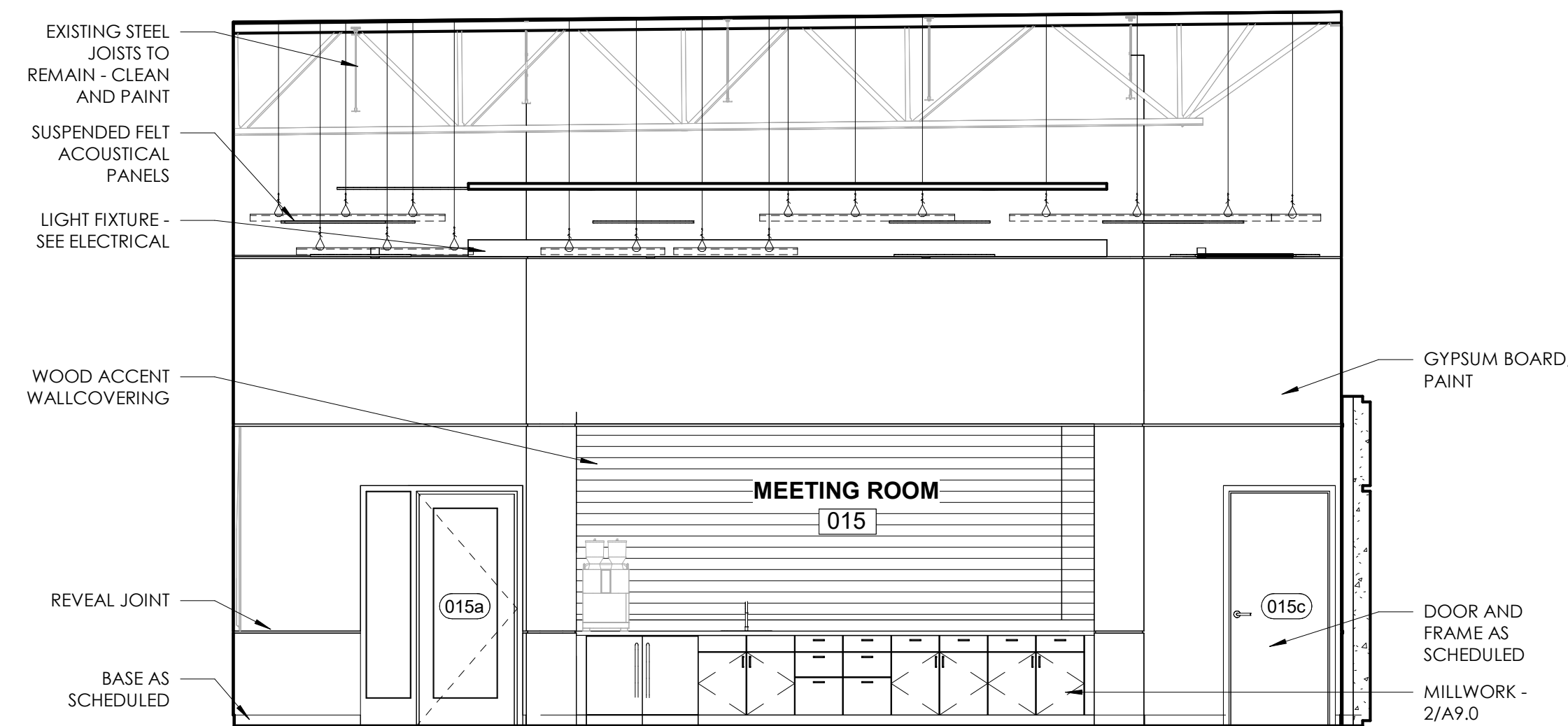
13 CDL CLASSROOM - SOUTH
1/4" = 1'-0"



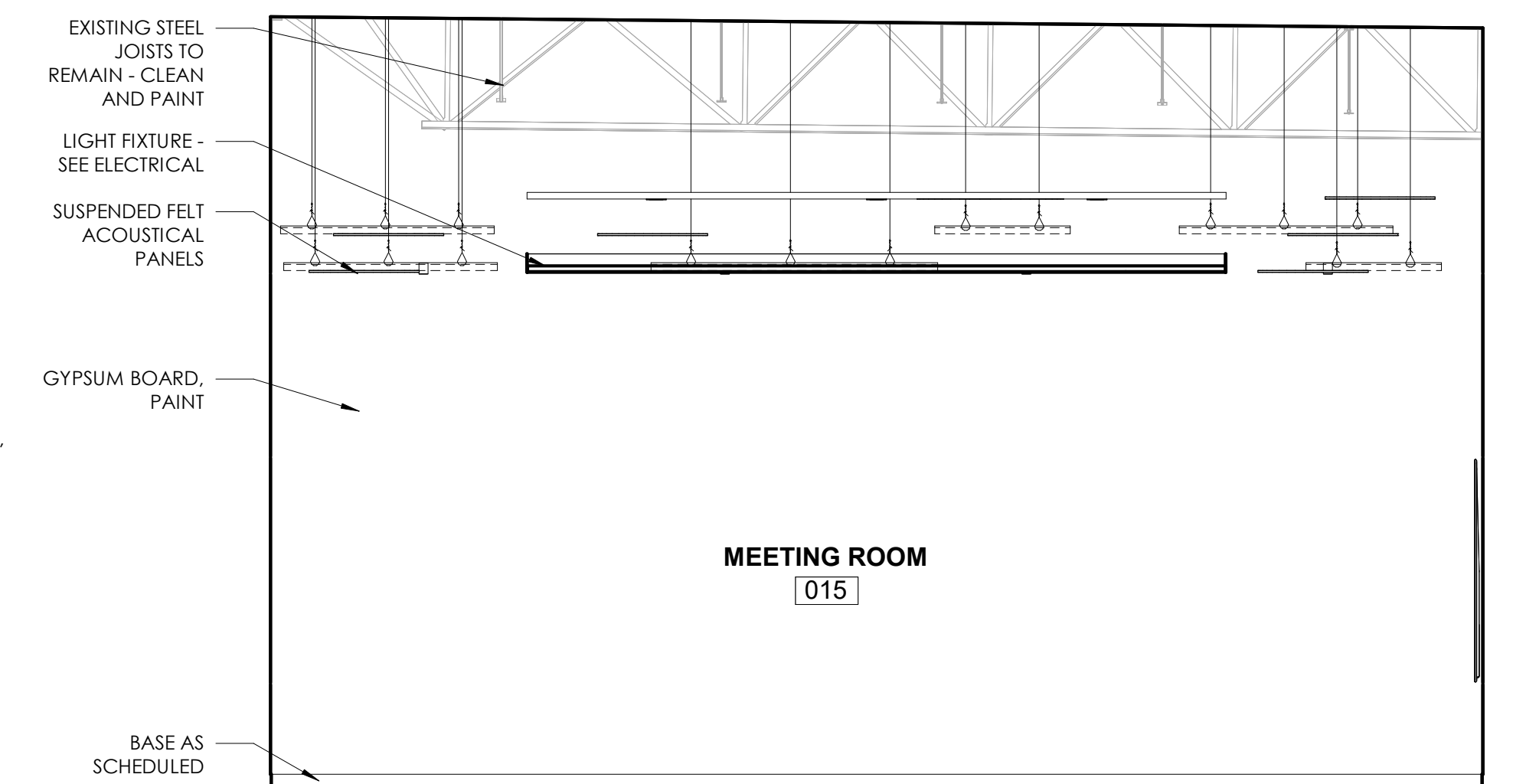
14 CDL CLASSROOM - WEST
1/4" = 1'-0"



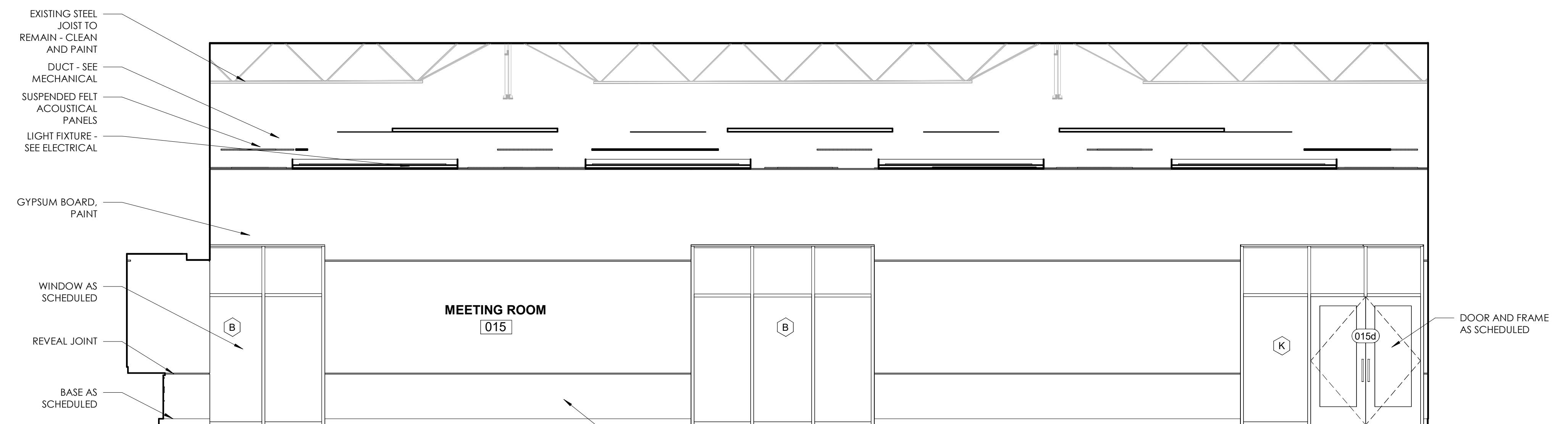
1 MEETING ROOM - NORTH
1/4" = 1'-0"



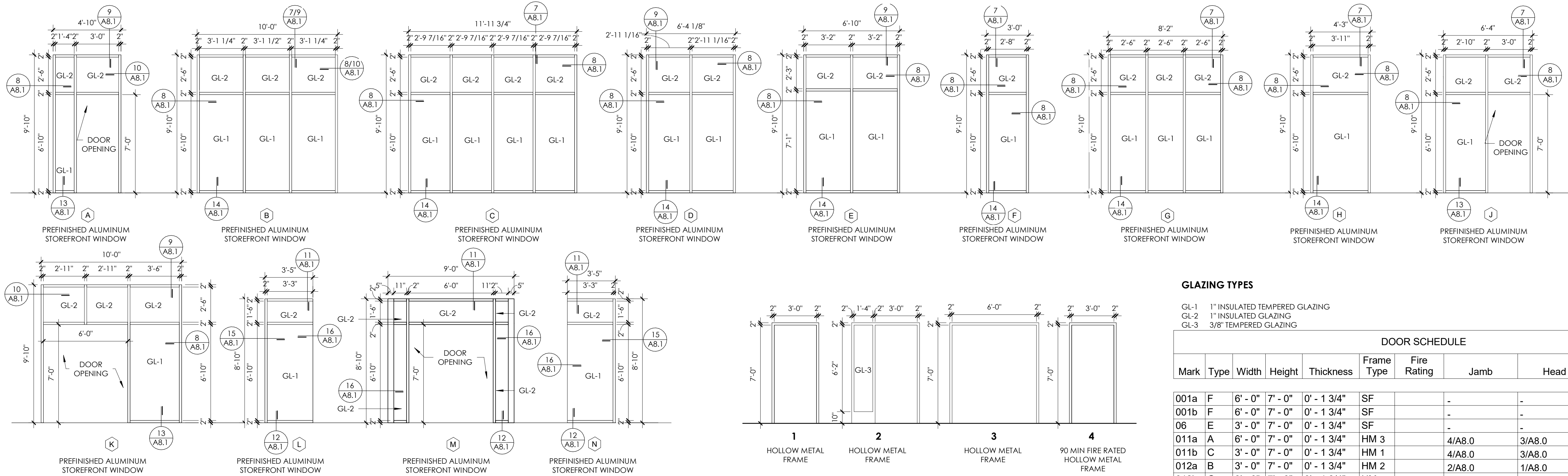
2 MEETING ROOM - EAST
1/4" = 1'-0"



4 MEETING ROOM - WEST
1/4" = 1'-0"

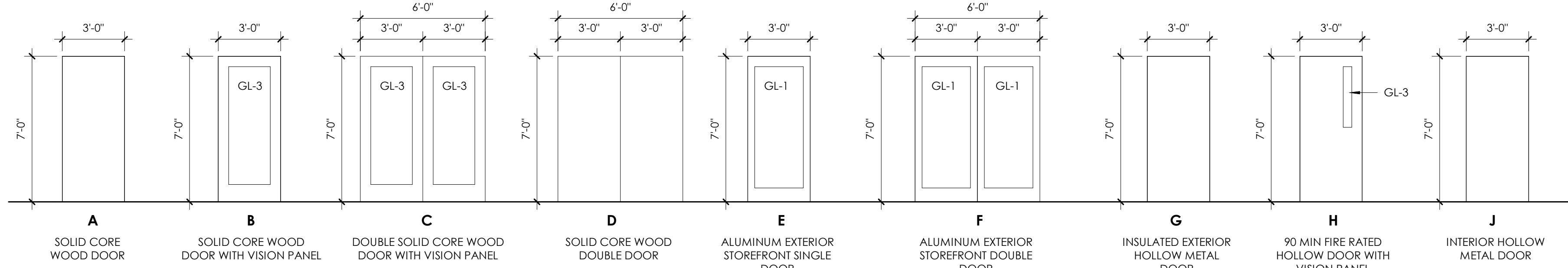


3 MEETING ROOM - SOUTH
1/4" = 1'-0"



WINDOW TYPES

1/4" = 1'-0"

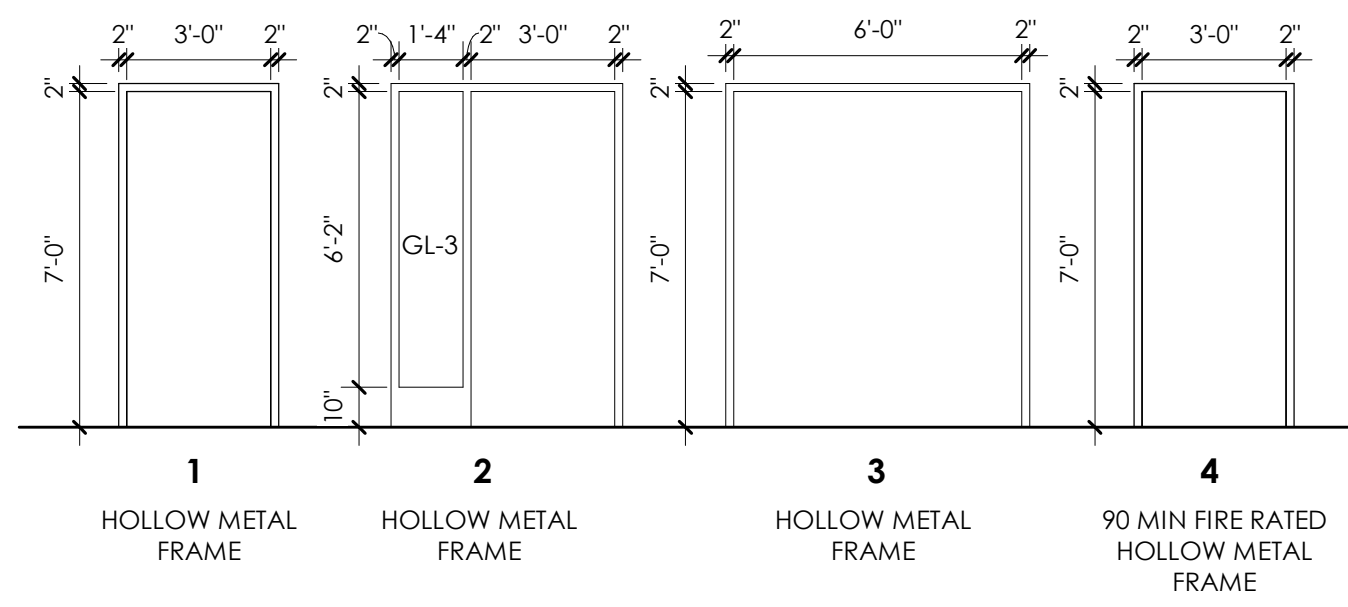


DOOR TYPES

1/4" = 1'-0"

FRAME TYPES

1/4" = 1'-0"

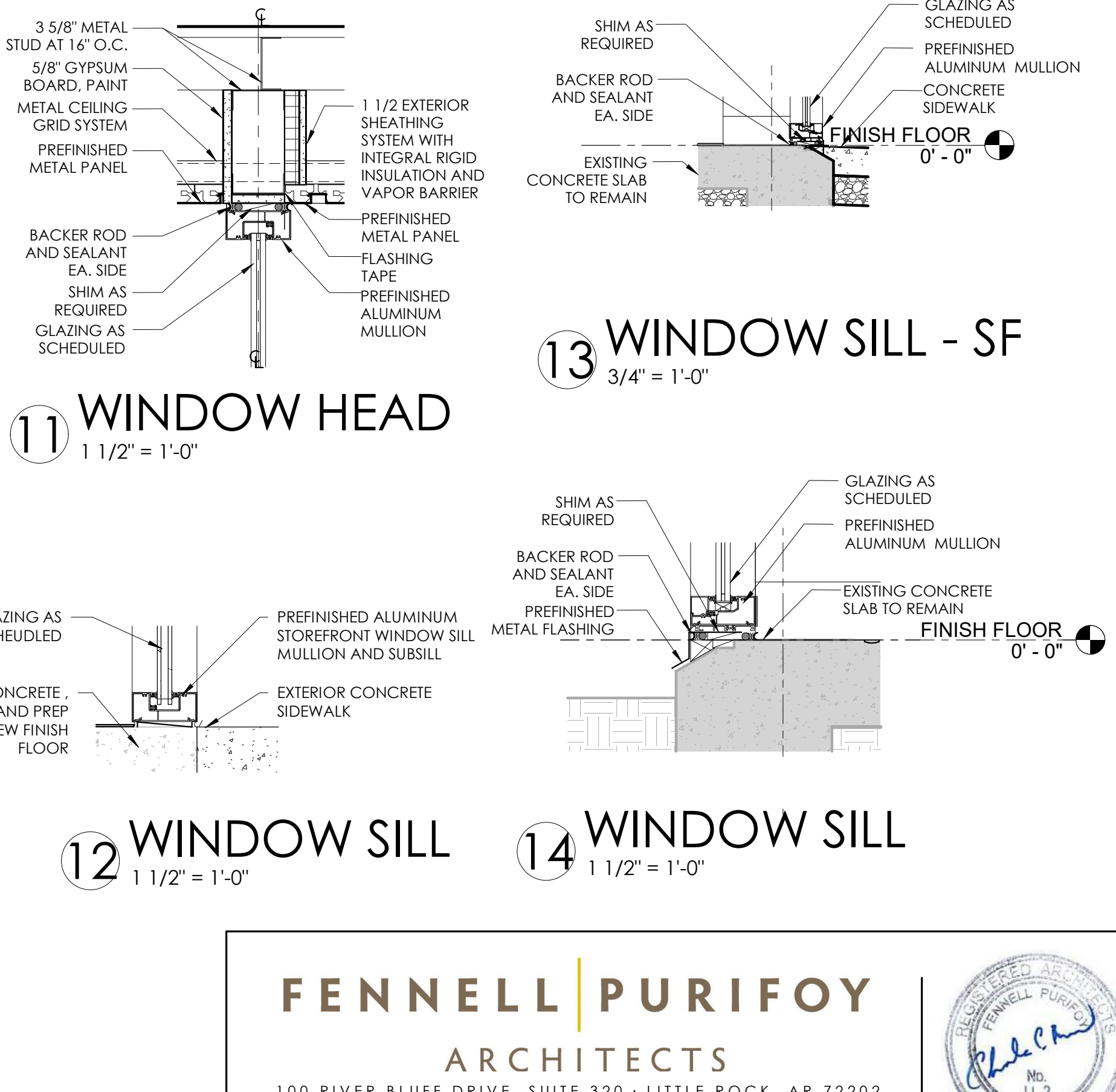
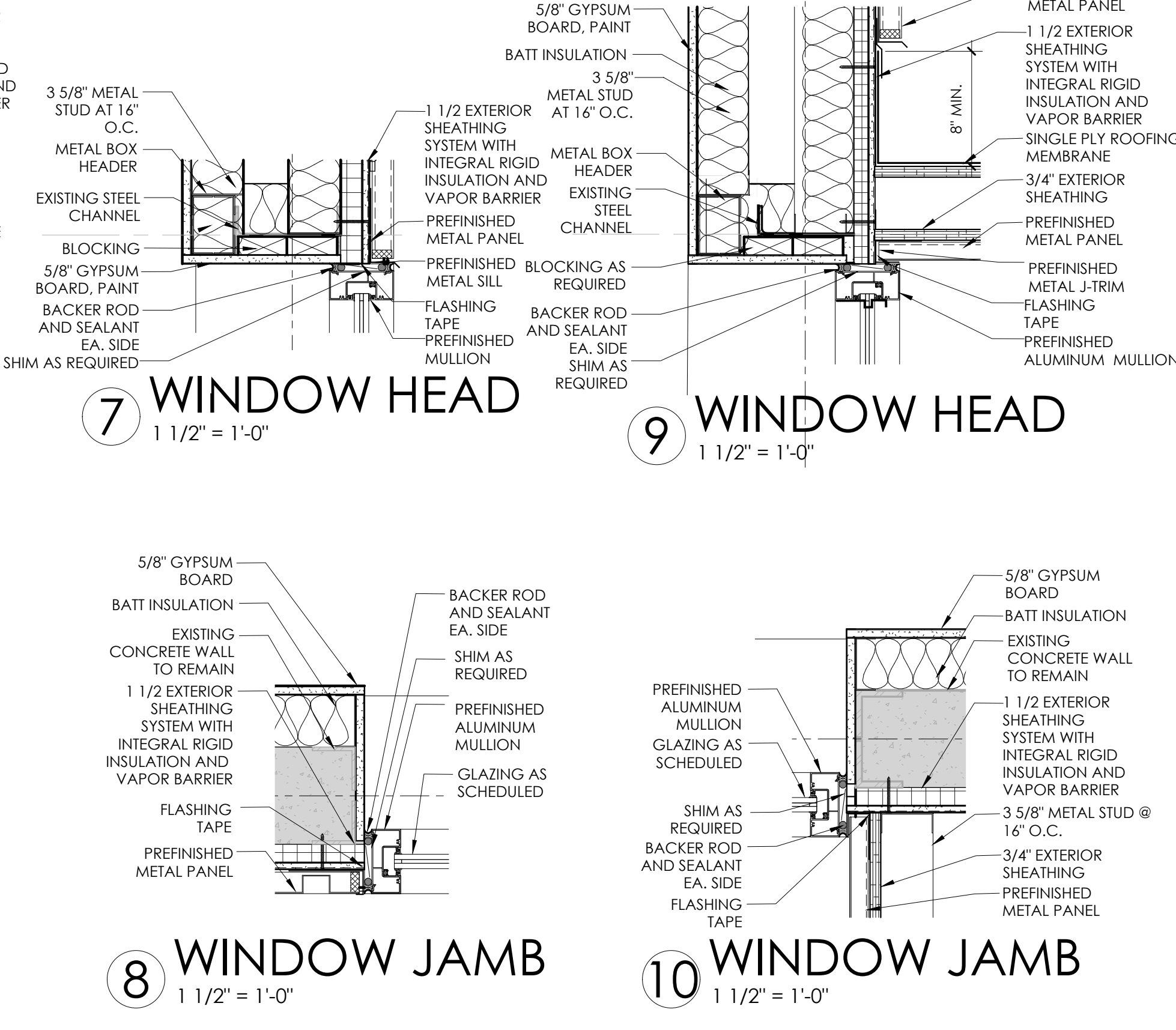
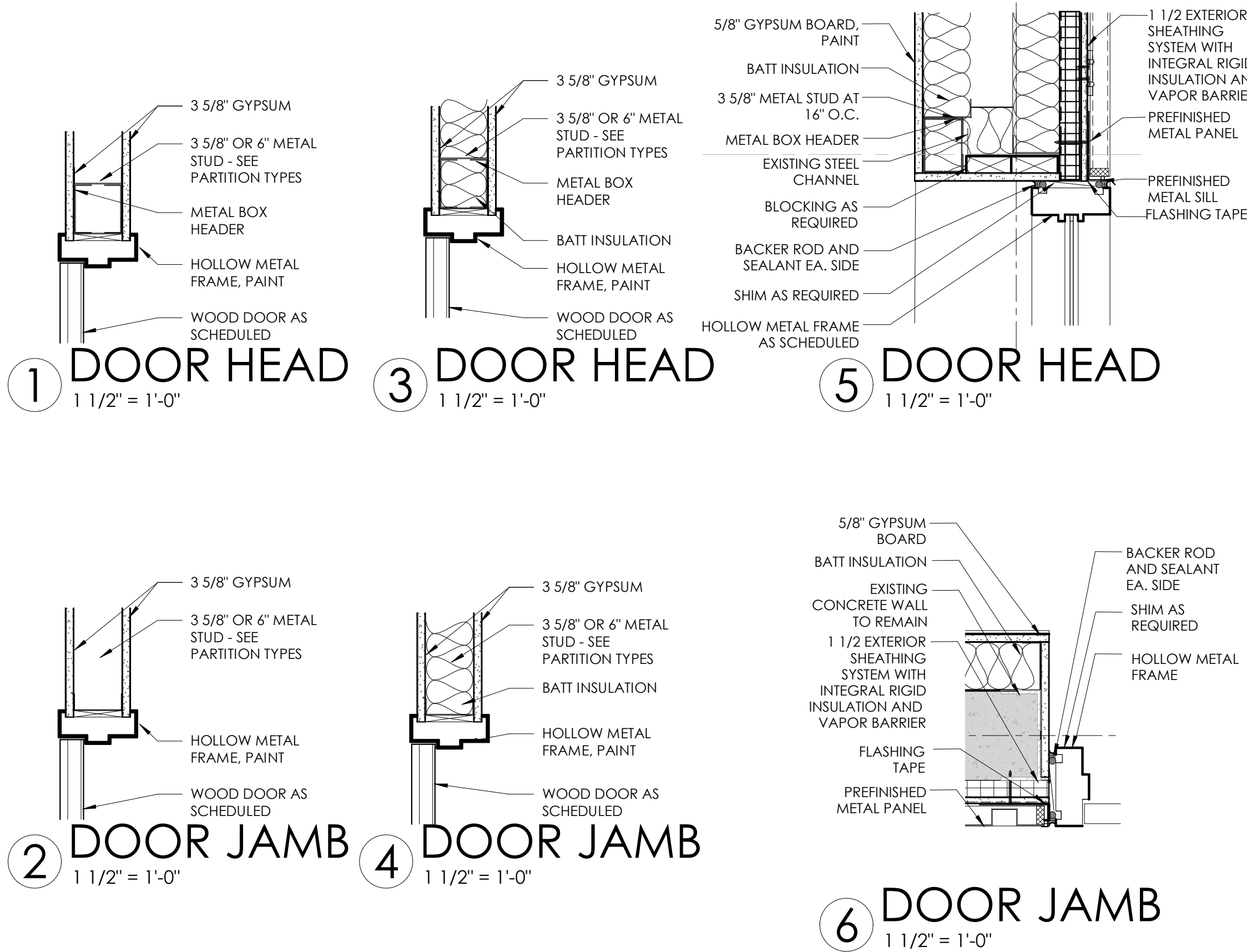


GLAZING TYPES

- GL-1 1" INSULATED TEMPERED GLAZING
- GL-2 1" INSULATED GLAZING
- GL-3 3/8" TEMPERED GLAZING

DOOR SCHEDULE

Mark	Type	Width	Height	Thickness	Frame Type	Fire Rating	Jamb	Head	Comments
001a	F	6' - 0"	7' - 0"	0' - 1 3/4"	SF	-	-	-	WINDOW M
001b	F	6' - 0"	7' - 0"	0' - 1 3/4"	SF	-	-	-	WINDOW M
06	E	3' - 0"	7' - 0"	0' - 1 3/4"	SF	-	-	-	WINDOW J
011a	A	6' - 0"	7' - 0"	0' - 1 3/4"	HM 3		4/A8.0	3/A8.0	
011b	C	3' - 0"	7' - 0"	0' - 1 3/4"	HM 1		4/A8.0	3/A8.0	
012a	B	3' - 0"	7' - 0"	0' - 1 3/4"	HM 2		2/A8.0	1/A8.0	
012b	G	3' - 0"	7' - 0"	0' - 1 3/4"	HM 5		6/A8.0	5/A8.0	
013a	B	3' - 0"	7' - 0"	0' - 1 3/4"	HM 2		2/A8.0	1/A8.0	
013b	H	3' - 0"	7' - 0"	0' - 1 3/4"	HM 4	1 1/2 HR	4/A8.0	3/A8.0	
014a	H	3' - 0"	7' - 0"	0' - 1 3/4"	HM 4	1 1/2 HR	4/A8.0	3/A8.0	
014b	E	3' - 0"	7' - 0"	0' - 1 3/4"	SF	-	-	-	WINDOW A
015a	B	3' - 0"	7' - 0"	0' - 1 3/4"	HM 4		2/A8.0	1/A8.0	
015b	D	6' - 0"	7' - 0"	0' - 1 3/4"	HM 3		2/A8.0	1/A8.0	
015c	H	3' - 0"	7' - 0"	0' - 1 3/4"	HM 4	1 1/2 HR	4/A8.0	3/A8.0	
015d	F	6' - 0"	7' - 0"	0' - 1 3/4"	SF	-	-	-	WINDOW K
016	B	3' - 0"	7' - 0"	0' - 1 3/4"	HM 2		2/A8.0	1/A8.0	
018	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM 1		2/A8.0	1/A8.0	
020	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM 1		2/A8.0	1/A8.0	
021	A	3' - 0"	7' - 0"	0' - 1 3/4"	HM 1		2/A8.0	1/A8.0	
022a	H	3' - 0"	7' - 0"	0' - 1 3/4"	HM 4	1 1/2 HR	4/A8.0	3/A8.0	
022b	J	3' - 0"	7' - 0"	0' - 1 3/4"	HM 1		2/A8.0	1/A8.0	
022c	G	3' - 0"	7' - 0"	0' - 1 3/4"	HM 2		6/A8.0	5/A8.0	
023	G	3' - 0"	7' - 0"	0' - 1 3/4"	HM 5		6/A8.0	5/A8.0	

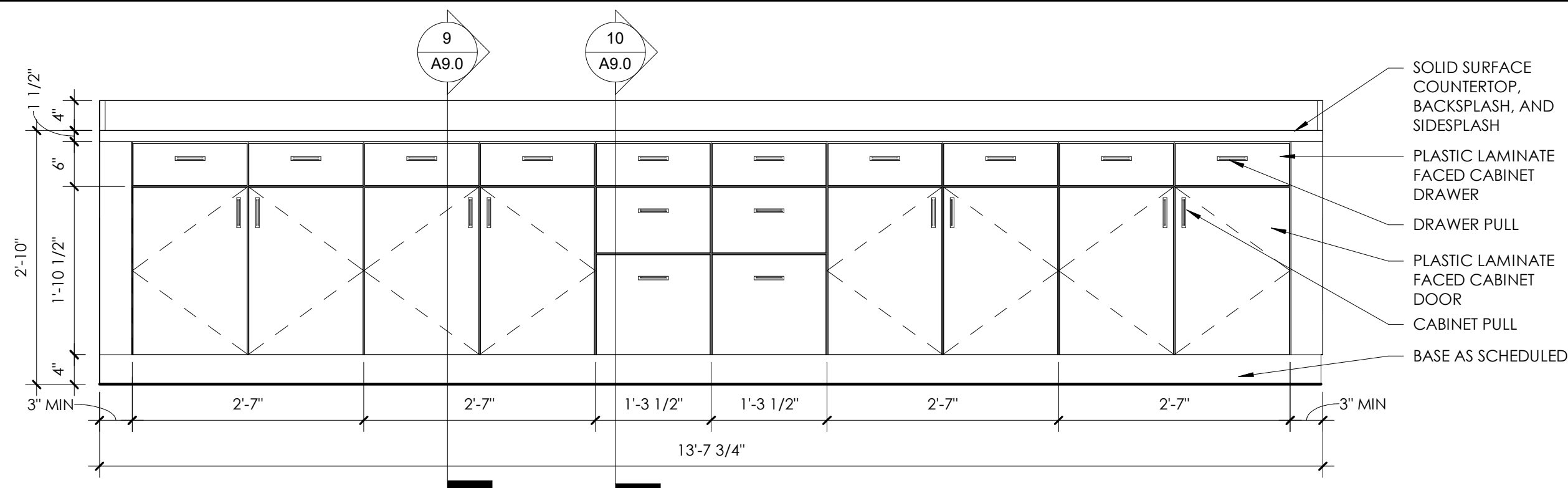


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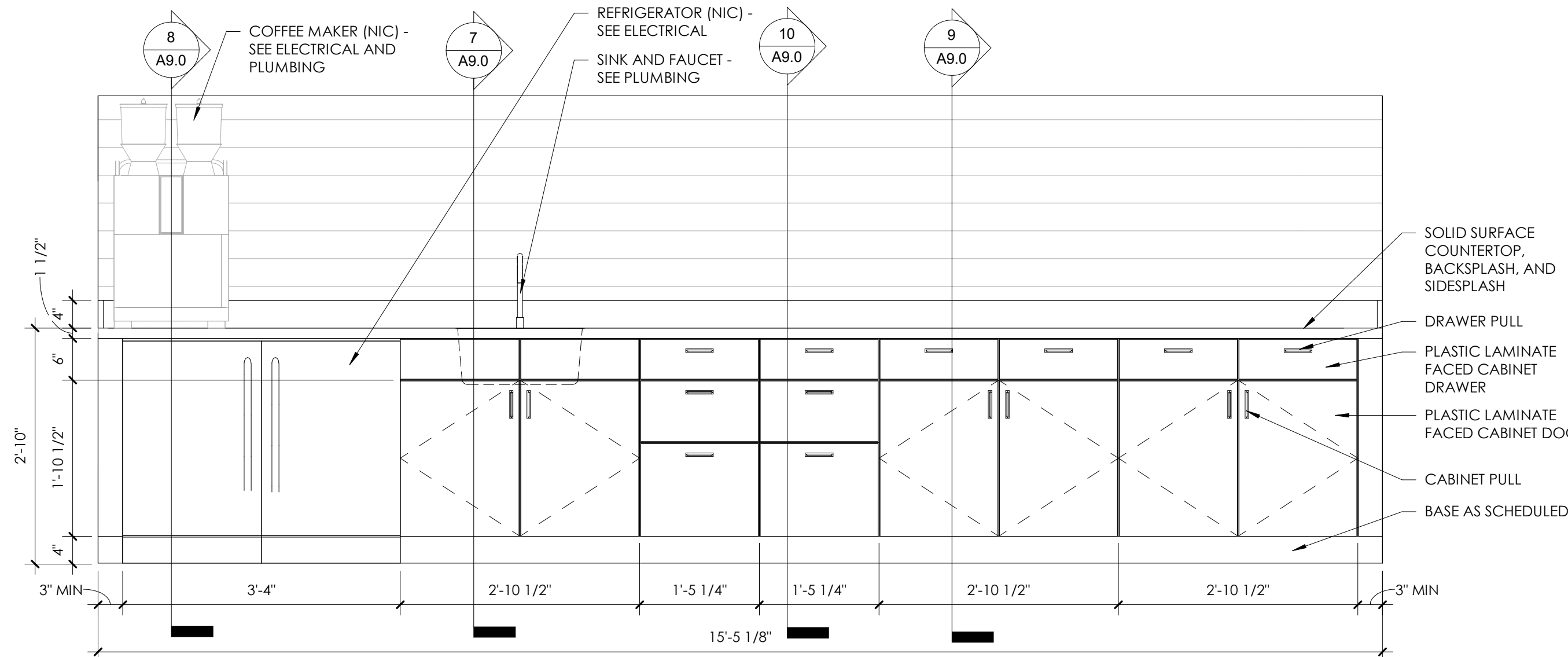
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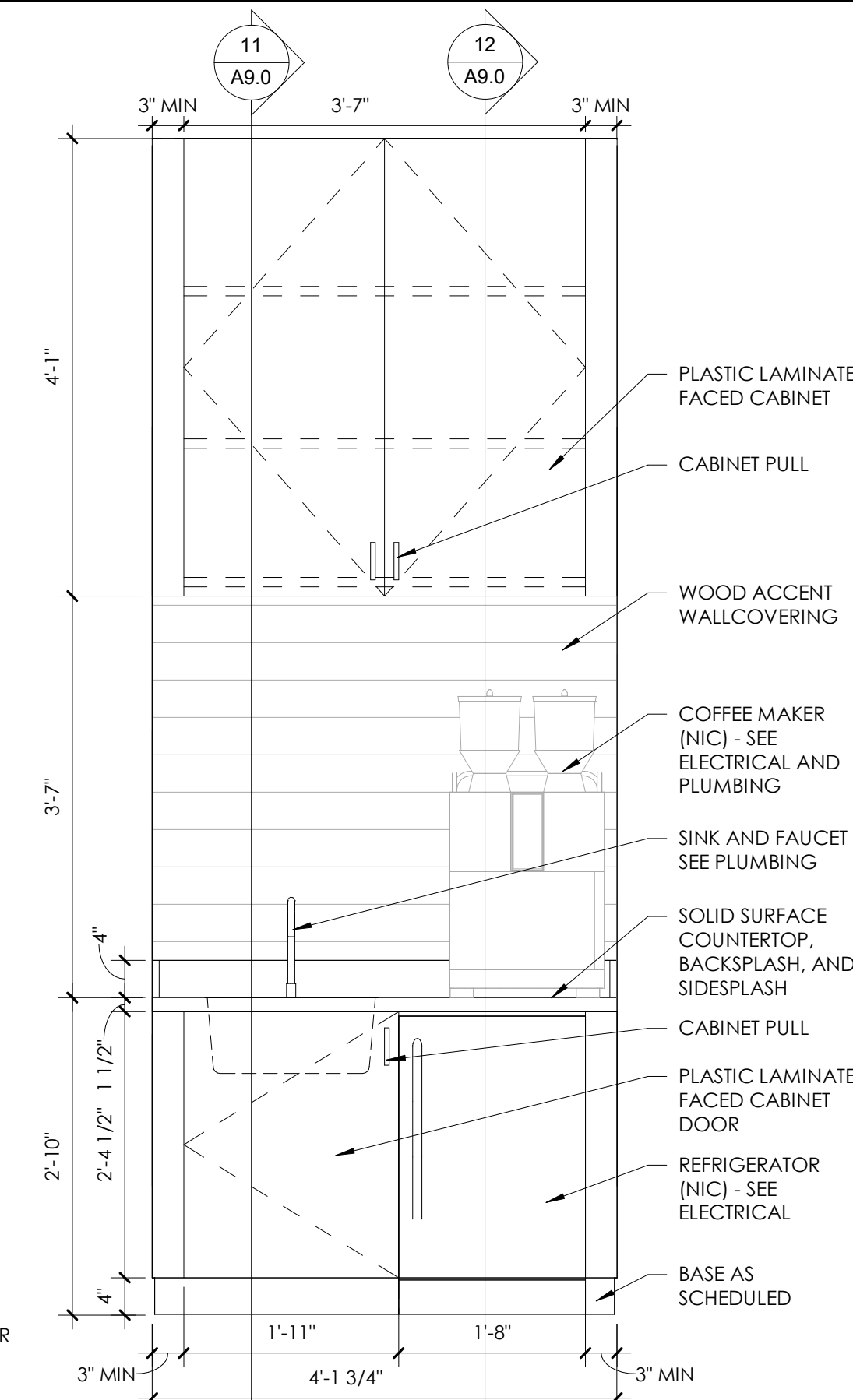




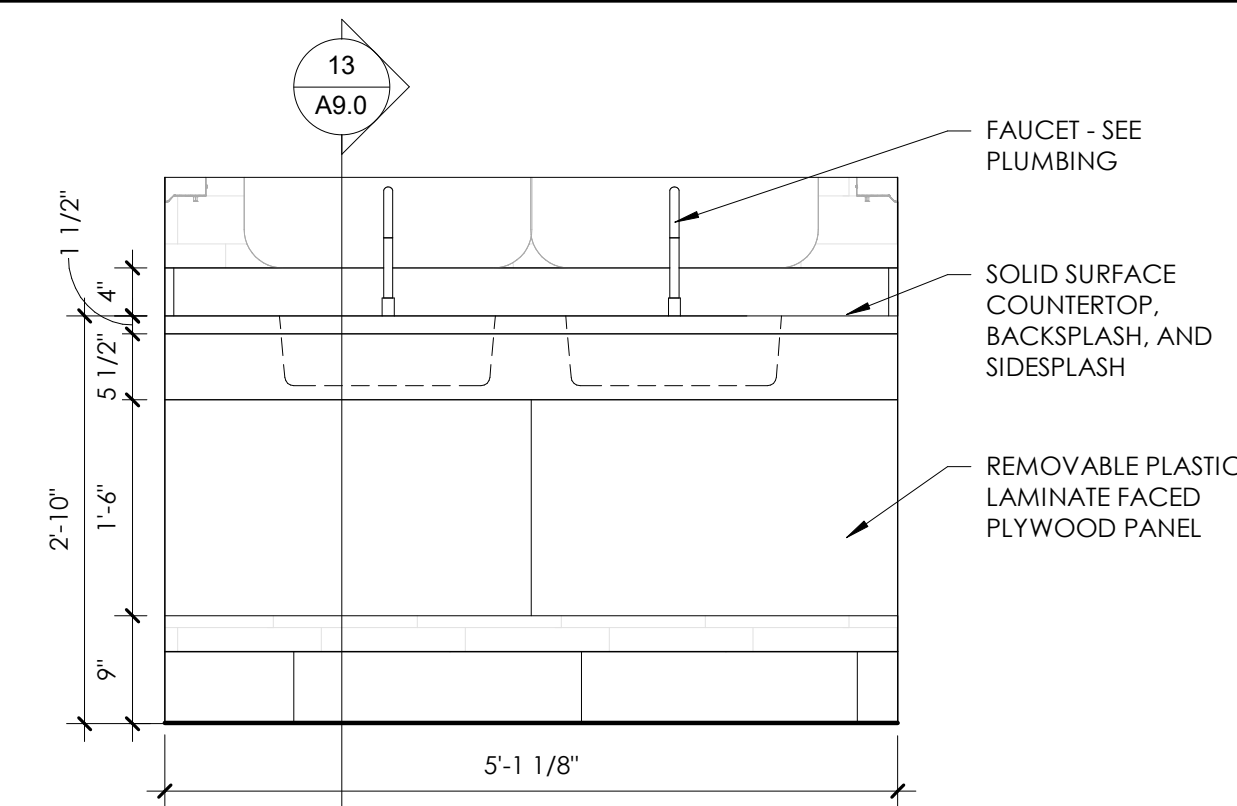
1 MILLWORK - LOBBY 1
3/4" = 1'-0"



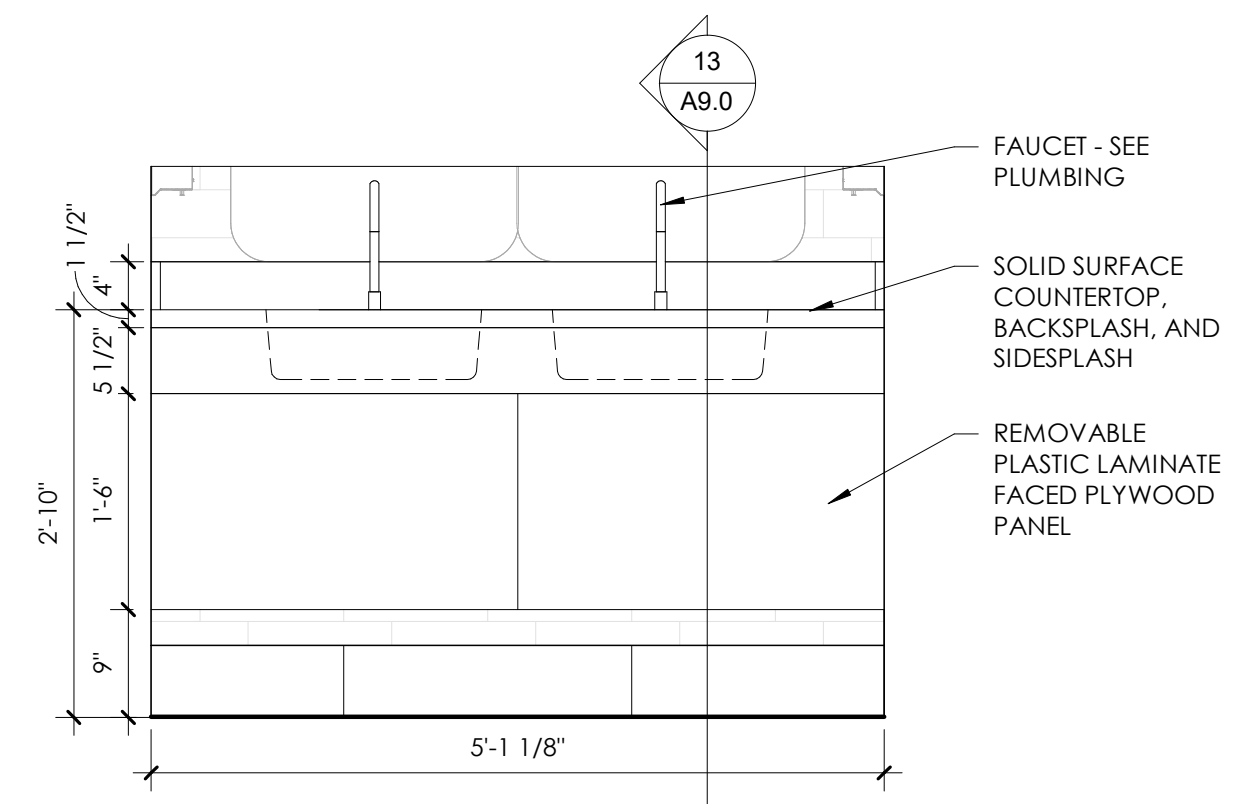
2 MILLWORK - MEETING ROOM
3/4" = 1'-0"



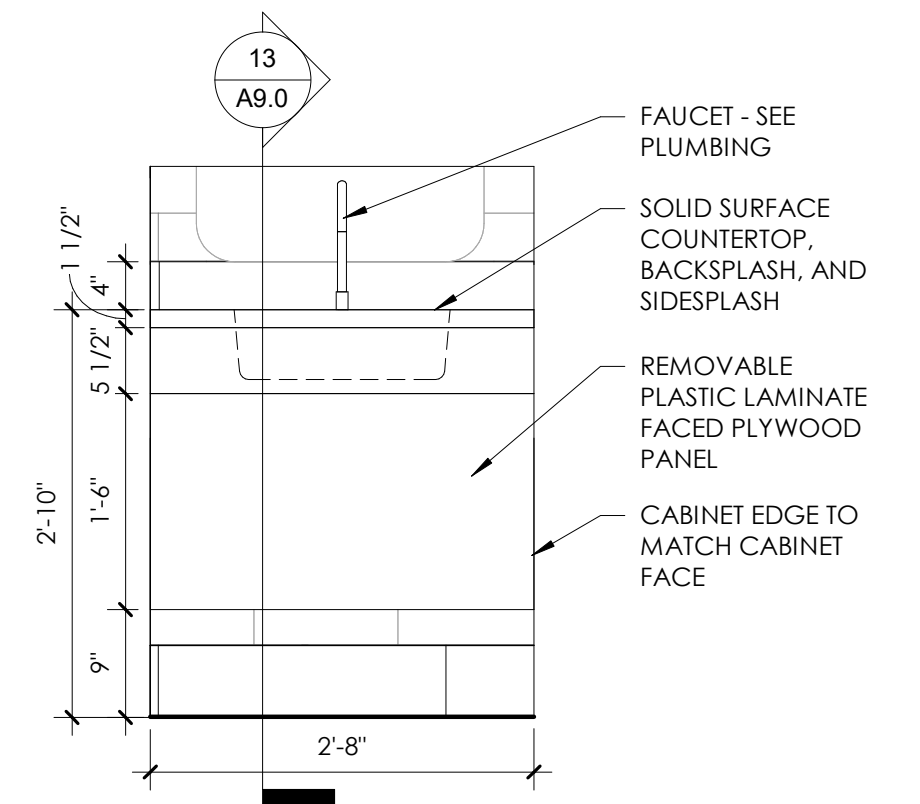
3 MILLWORK - LOBBY 2
3/4" = 1'-0"



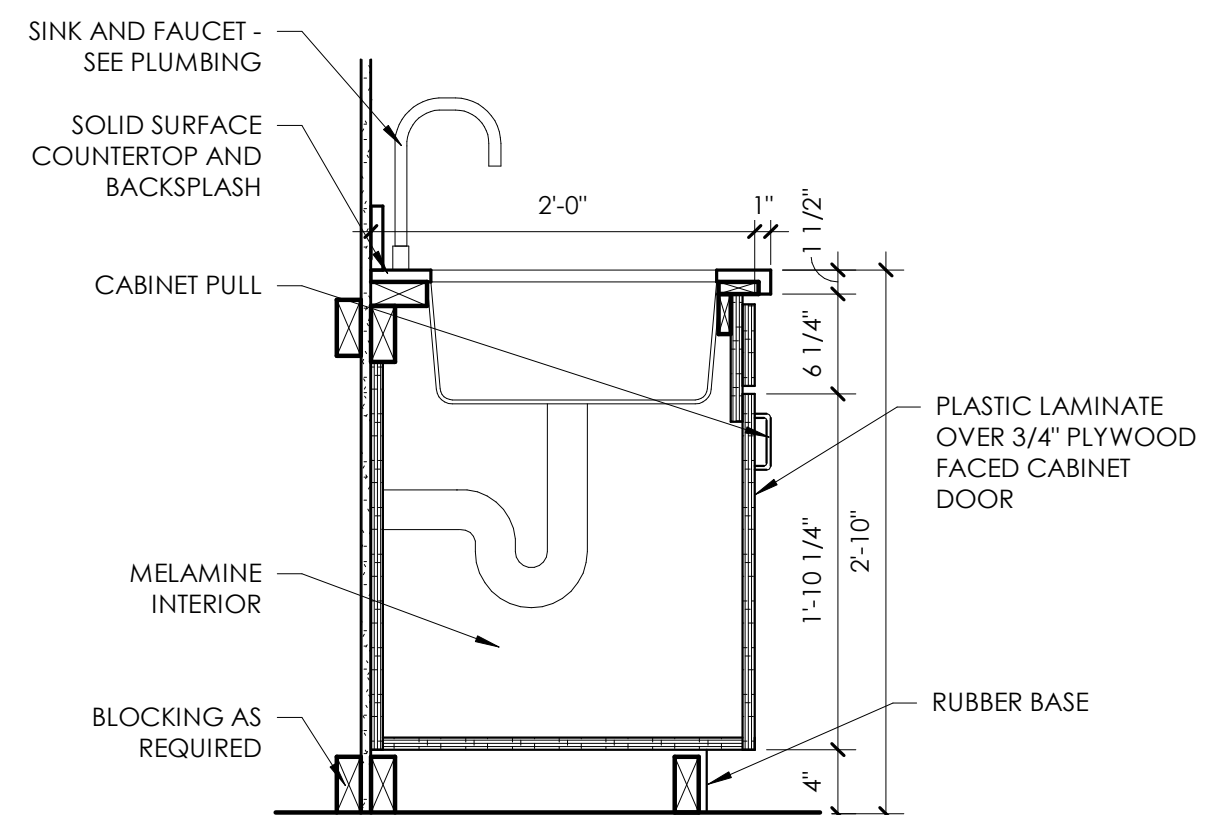
4 MILLWORK - WOMENS
3/4" = 1'-0"



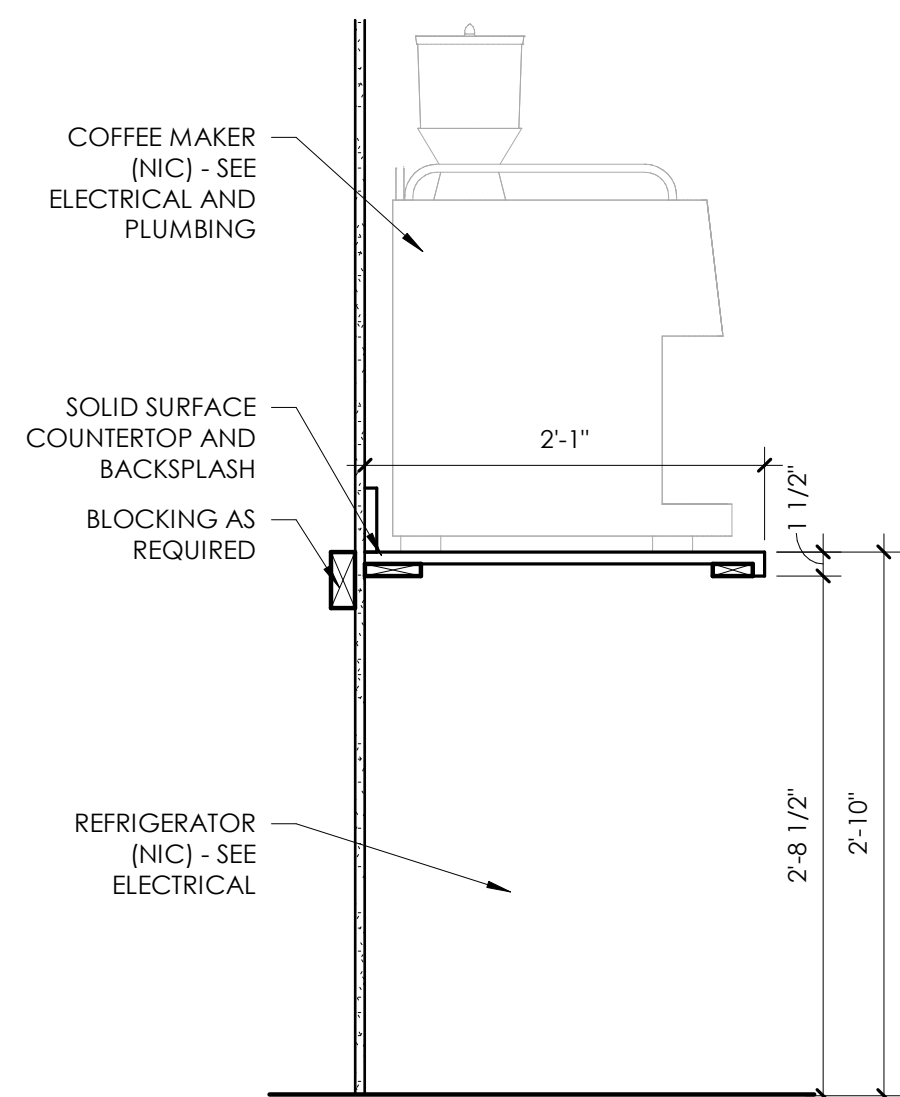
5 MILLWORK - MENS
3/4" = 1'-0"



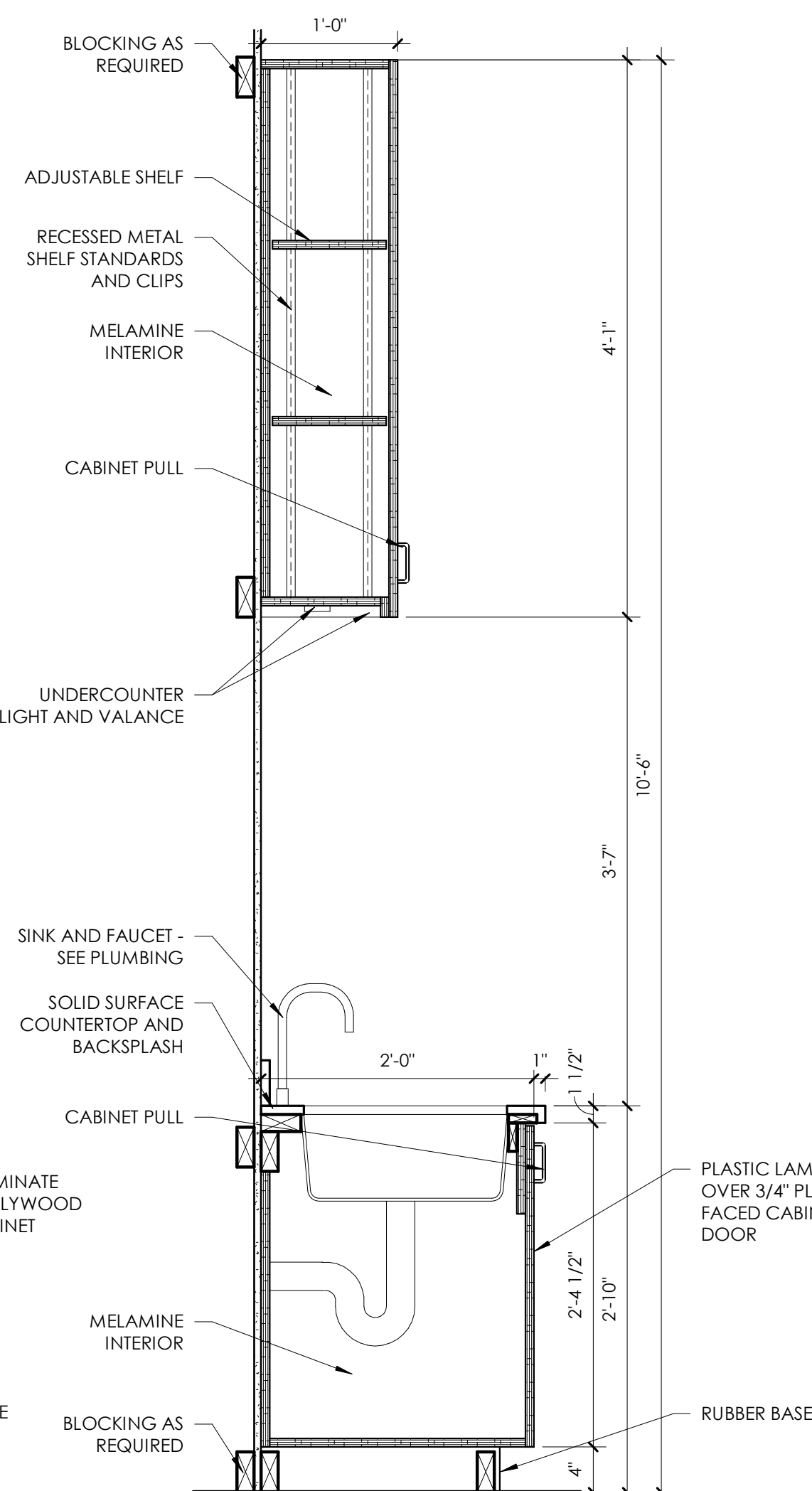
6 SINGLE RESTROOM
3/4" = 1'-0"



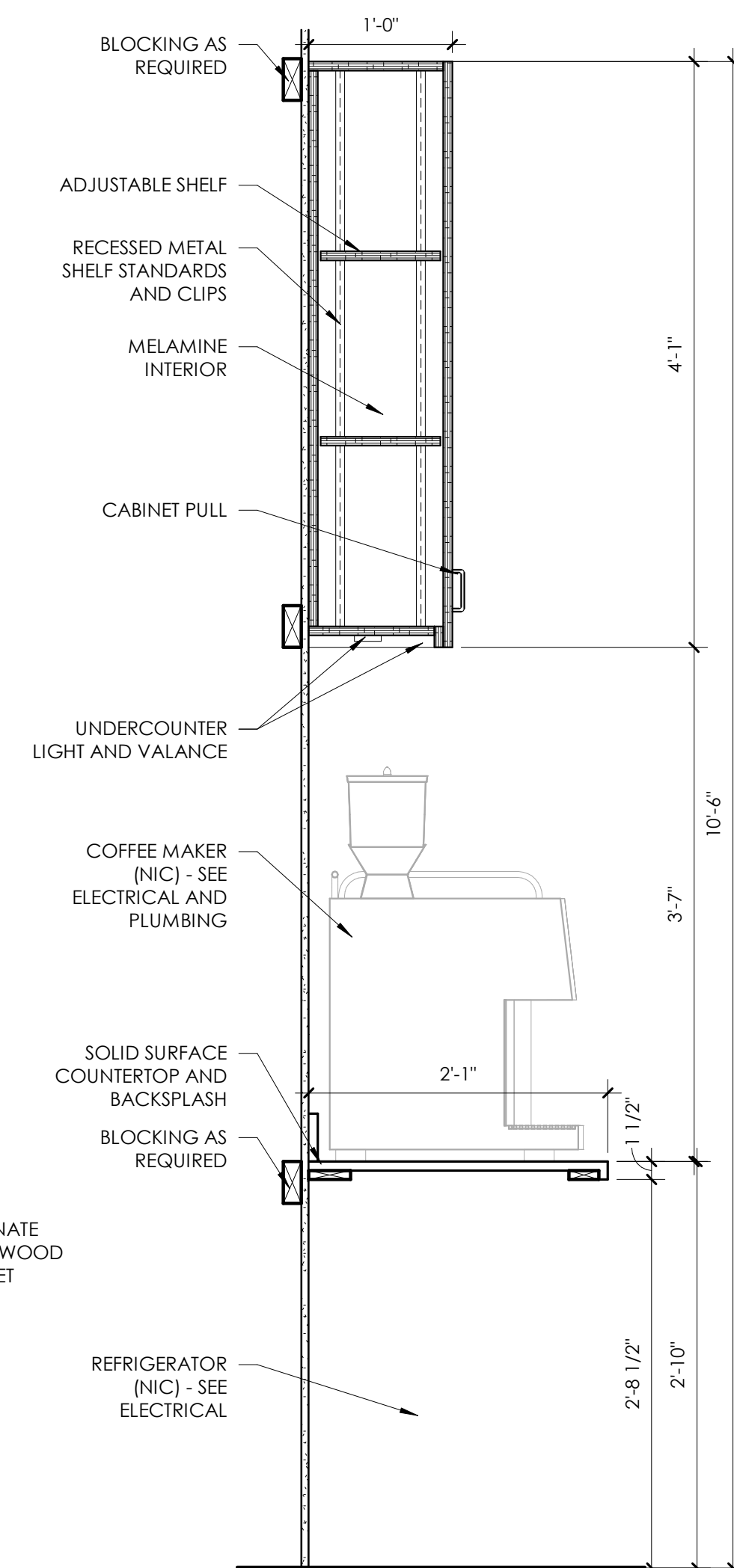
7 MILLWORK DETAIL
1" = 1'-0"



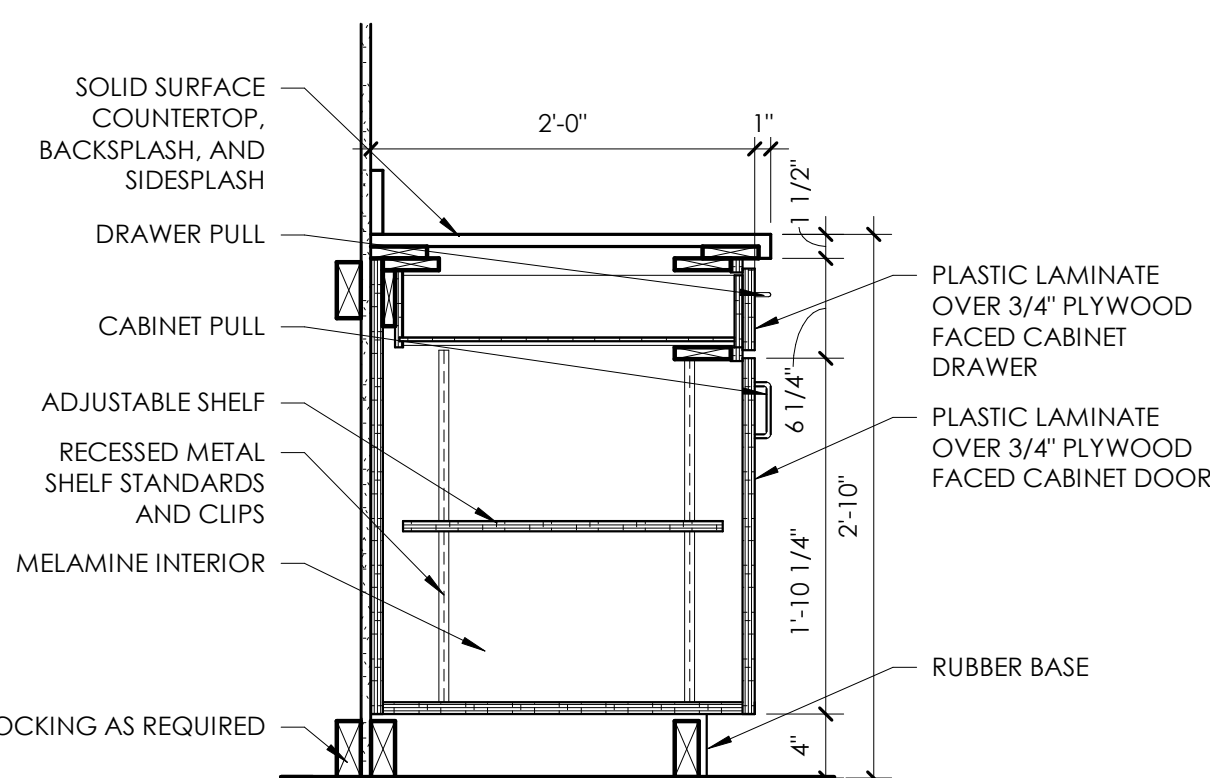
8 MILLWORK DETAIL
1" = 1'-0"



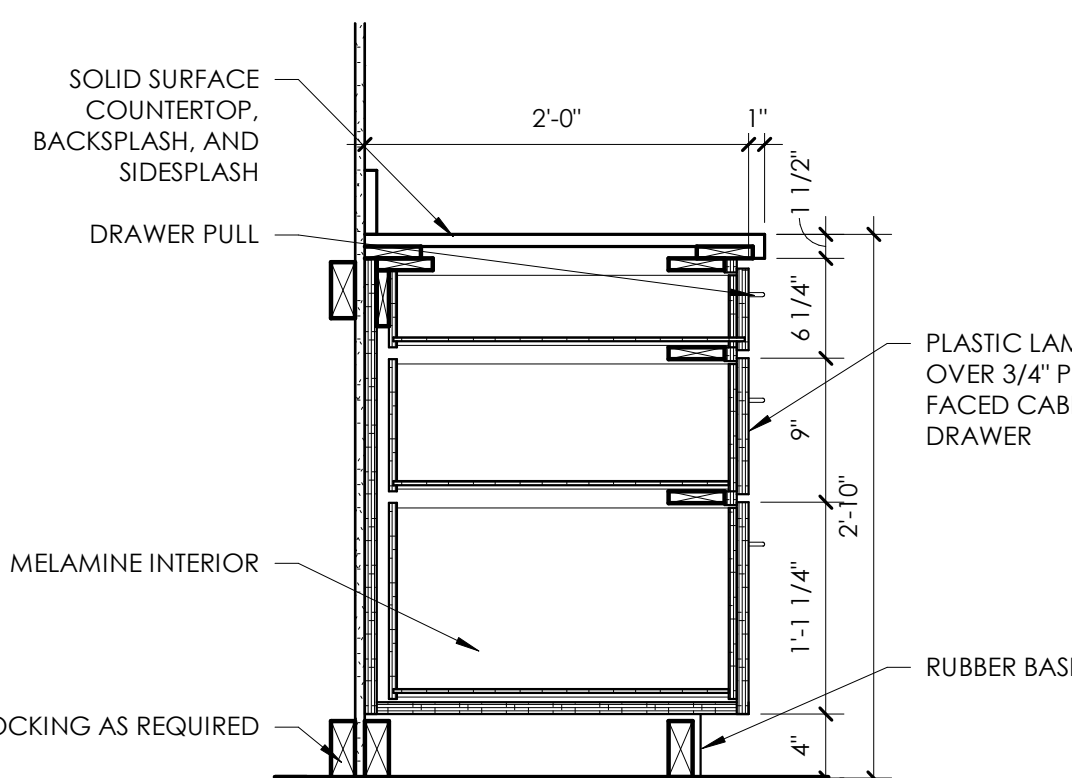
11 MILLWORK DETAIL
1" = 1'-0"



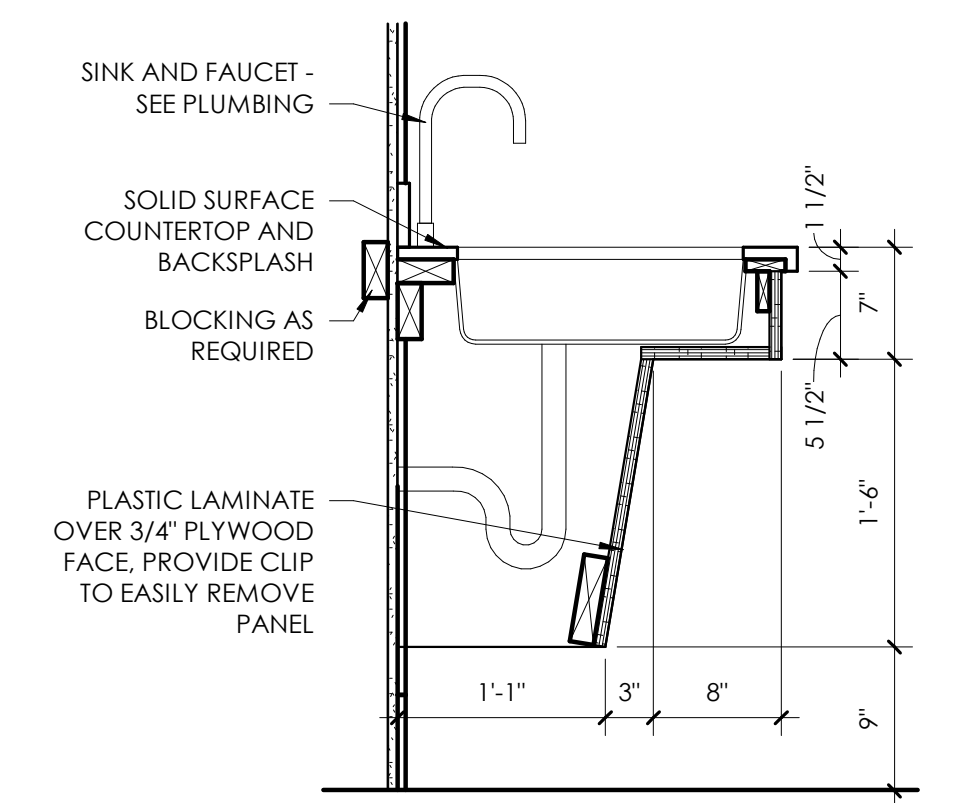
12 MILLWORK DETAIL
1" = 1'-0"



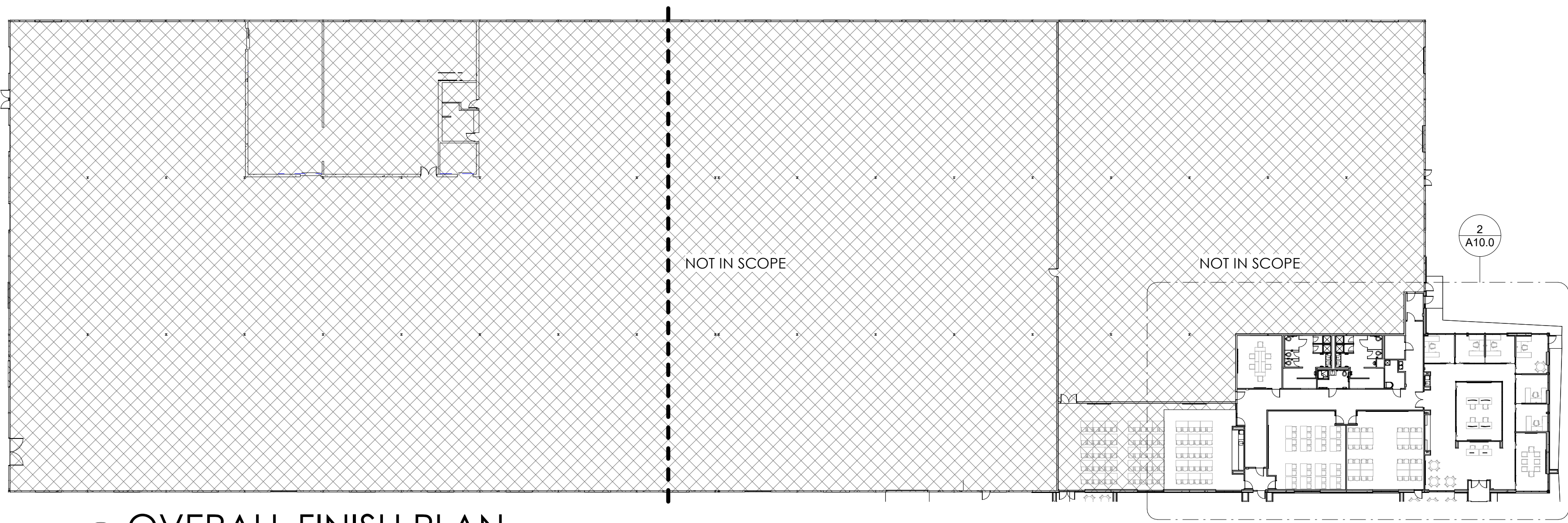
9 MILLWORK DETAIL
1" = 1'-0"



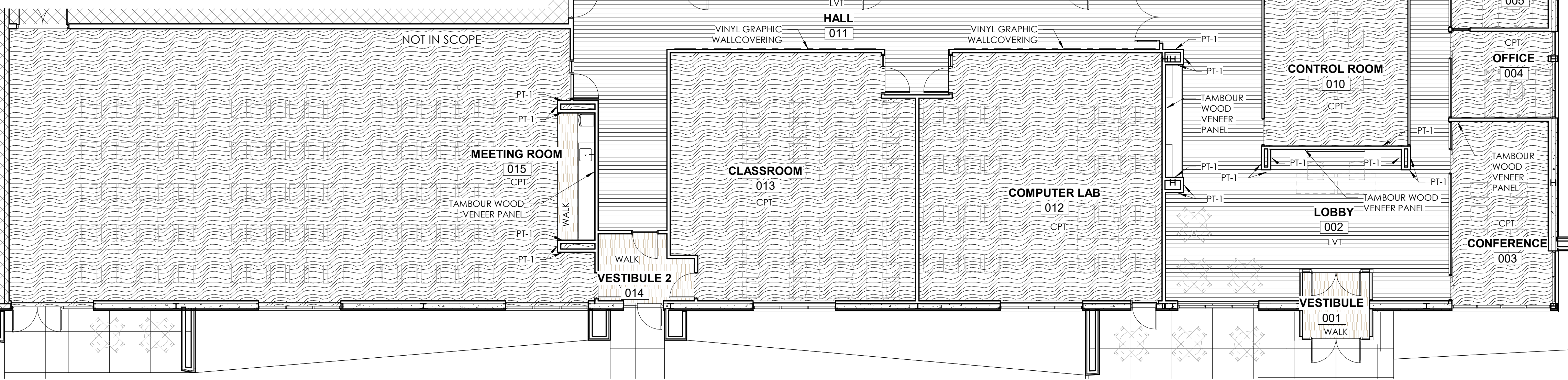
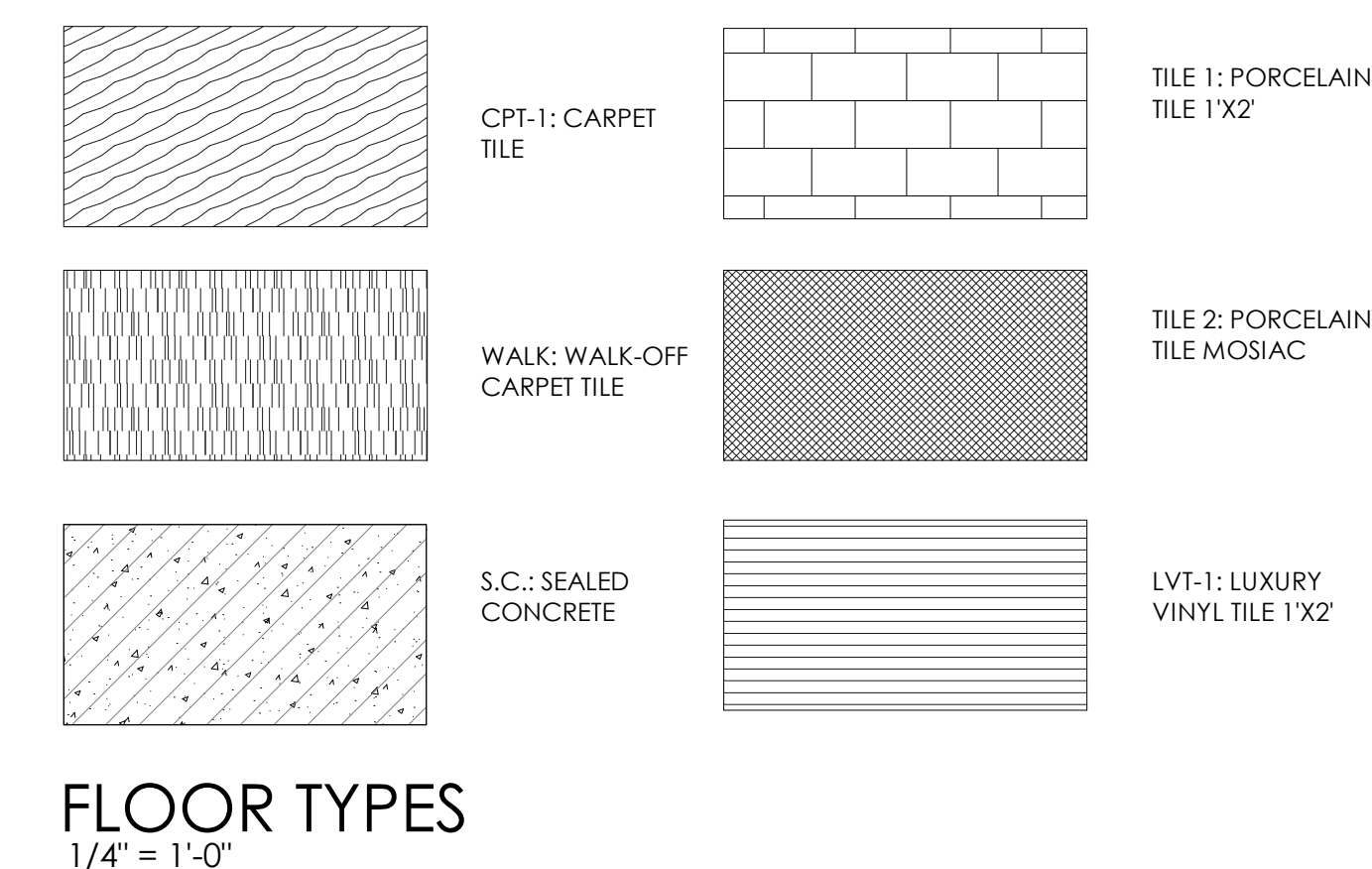
10 MILLWORK DETAIL
1" = 1'-0"



13 MILLWORK DETAIL
1" = 1'-0"

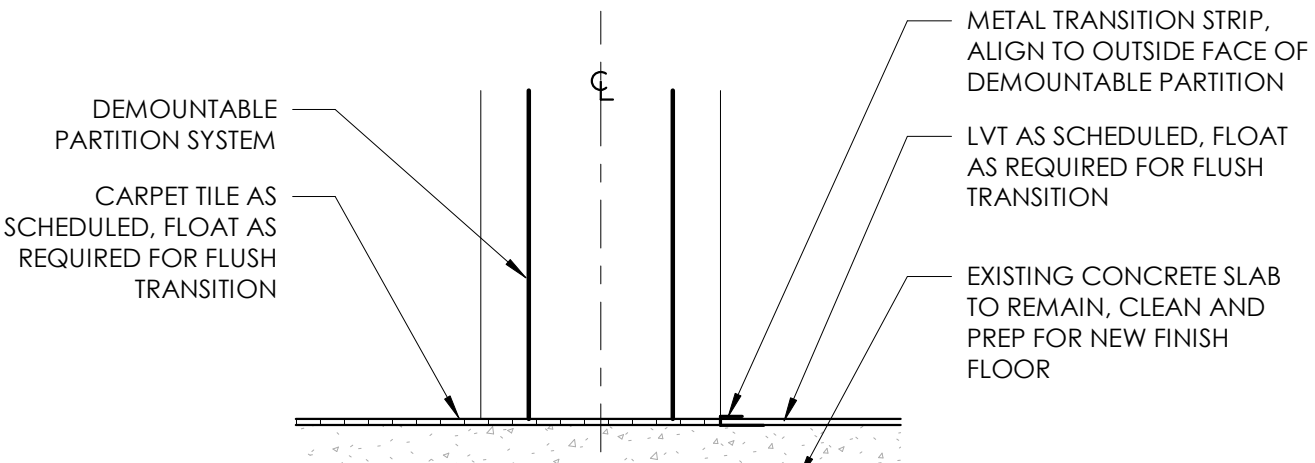


1 OVERALL FINISH PLAN
1/32" = 1'-0"

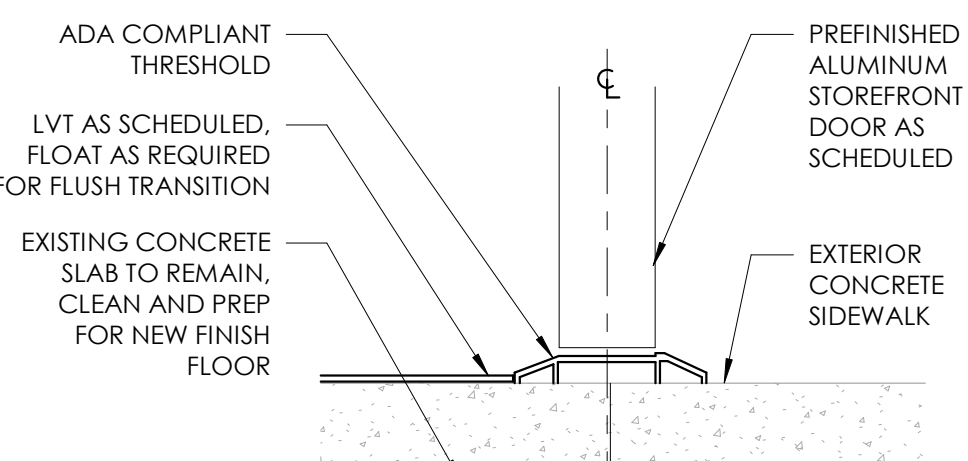


2 OVERALL FINISH PLAN
1/8" = 1'-0"

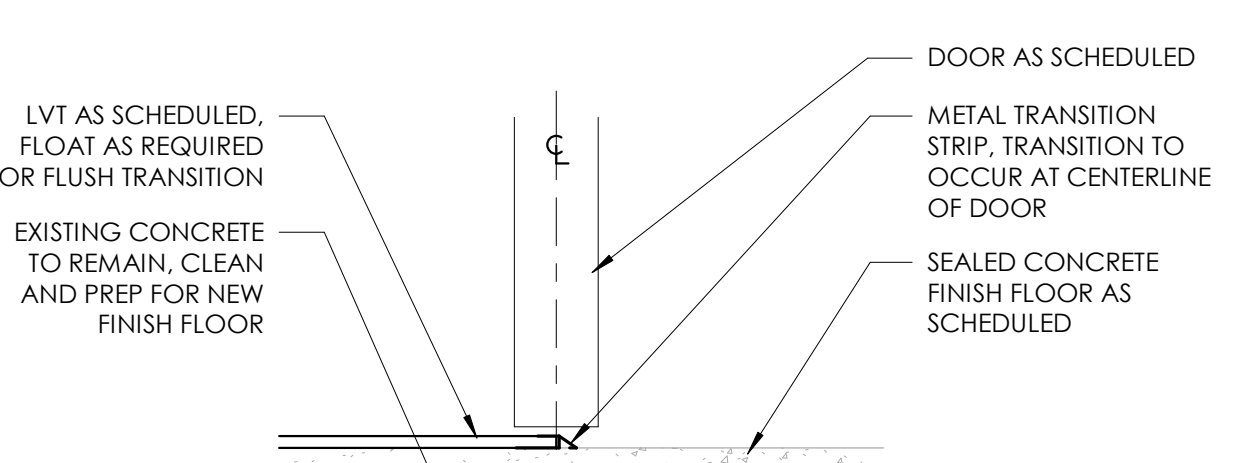
FINISH SCHEDULE						
#	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
001	VESTIBULE	LVT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
002	LOBBY	LVT	RUBBER	GYPSUM BOARD, PAINT	OPEN TO STRUCTURE, CLEAN AND PAINT	
003	CONFERENCE	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
004	OFFICE	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
005	OFFICE	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
006	OFFICE	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
007	OFFICE	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
008	OFFICE	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
009	OFFICE	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
010	CONTROL ROOM	CPT	RUBBER	GYPSUM BOARD, PAINT	OPEN TO STRUCTURE, CLEAN AND PAINT	
011	HALL	LVT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
012	COMPUTER LAB	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
013	CLASSROOM	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
014	VESTIBULE 2	LVT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
015	MEETING ROOM	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
015	TABLE/CHAIR STORAGE					
016	CDL CLASSROOM	CPT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
017	WOMENS RESTROOM	TILE	TILE	GYPSUM BOARD, PAINT; WALL TILE	ACOUSTICAL CEILING TILE	
018	SINGLE RESTROOM	TILE	TILE	GYPSUM BOARD, PAINT; WALL TILE	ACOUSTICAL CEILING TILE	
019	MENS RESTROOM	TILE	TILE	GYPSUM BOARD, PAINT; WALL TILE	ACOUSTICAL CEILING TILE	
020	JANITOR	S.C.	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
021	DATA/ ELEC.	S.C.	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	
022	VESTIBULE 3	LVT	RUBBER	GYPSUM BOARD, PAINT	ACOUSTICAL CEILING TILE	



3 TRANSITION DETAIL
3" = 1'-0"



4 TRANSITION DETAIL
3" = 1'-0"



5 TRANSITION DETAIL
3" = 1'-0"

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1/16/2024 3:51:09 PM

GENERAL NOTES:

- EXISTING SURVEY DATA WAS OBTAINED FROM A TOPOGRAPHIC & BOUNDARY SURVEY PERFORMED BY BLEW & ASSOCIATES, P.A. AND DATED 12/29/2022.
- SURVEY DATA IS BASED UPON NAD 83, STATE STATE PLANE, ARKANSAS NORTH FEET COORDINATE SYSTEM.
- ELEVATIONS ARE BASED UPON NATIONAL GEODETIC VERTICAL DATUM.
- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY, STATE, AND FEDERAL REGULATIONS AND CODES AS WELL AS OSHA STANDARDS. SITE CONTRACTOR SHALL MEET OR EXCEED ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL MEASURES
- THE APPROXIMATE LOCATION OF KNOWN UTILITIES & SUBSURFACE STRUCTURES AS SHOWN HEREON ARE BASED ON ABOVE-GROUND VISIBLE STRUCTURES & RECORD DRAWINGS PROVIDED. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF THESE & ALL OTHER SUBSURFACE AND/OR LATENT FACILITIES PRIOR TO BEGINNING WORK. ALL REPAIRS OR RELOCATIONS NECESSARY SHALL BE MADE AS REQUIRED BY THE OWNER OF THE UTILITY OR STRUCTURE & THE COST OF SUCH REPAIRS NECESSARY SHALL BE BORNE BY THE CONTRACTOR.
- ALL WORK PERFORMED WITHIN THE RIGHT-OF-WAY SHALL BE COORDINATED WITH THE CITY OF BATESVILLE'S ENGINEERING DEPARTMENT AND TRAFFIC DEPARTMENT.
- ALL STREETS, DRIVES, WALKS, DRAINAGE STRUCTURES, FENCES, ETC. THAT ARE DISTURBED SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION USING LIKE MATERIALS. COST OF SUCH REPAIRS SHALL BE BORNE BY THE CONTRACTOR UNLESS PROVISION FOR PAYMENT IS MADE IN THE PROPOSAL.
- THE CONTRACTOR IS REQUIRED TO NOTIFY THE ONE CALL CENTER AT 1-800-482-8998 48 HOURS PRIOR TO DIGGING IN ORDER THAT UNDERGROUND UTILITIES IN THE AREA CAN BE LOCATED.
- THE CONTRACTOR SHALL NOT BEGIN WORK UNTIL THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN IMPLEMENTED, AND THE SWPPP, EROSION CONTROL PLAN, AND SIGNED AUTOMATIC NOTICE OF COVERAGE IS POSTED ON SITE.
- CONTRACTOR IS RESPONSIBLE FOR ALL FIELD TESTING AS DESCRIBED IN THE SPECIFICATIONS (INCLUDING BUT NOT LIMITED TO COMPACTION DENSITY TESTING, ETC.), AND SHALL PROVIDE RESULTS TO ENGINEER, AND MAINTAIN RECORDS AND RESULTS OF ALL TESTS PERFORMED DURING CONSTRUCTION. TESTING BY THE CONTRACTOR SHALL BE INCLUDED IN THE BID.
- EXISTING FACILITIES AND FEATURES ARE SHOWN LIGHT-LINED AND/OR SCREENED. NEW FACILITIES AND FEATURES ARE SHOWN SOLID AND HEAVY-LINED.
- SLOPES AND GRADES SHOWN ARE IN UNITS OF FT/FT UNLESS OTHERWISE NOTED.
- ALL PAVEMENT AND CURB MEASUREMENTS ARE TAKEN FROM FACE OF CURB OR EDGE OF PAVEMENT.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

DEMOLITION NOTES:

- DEMOLITION SHALL NOT BEGIN UNTIL THE APPROPRIATE EROSION CONTROL MEASURES AND REQUIRED TREE PRESERVATION FENCING HAVE BEEN INSTALLED.
- CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND LOCAL CODES FOR DEMOLITION AND DISPOSAL OF ALL MATERIALS.
- CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTY IS NOT DAMAGED.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES REGARDING RELOCATION, REMOVAL, AND/OR DISCONNECTION.
- CONTRACTOR SHALL PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC.
- CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY UNDERGROUND TANKS ARE FOUND ON SITE.
- ALL TREES (EXCEPT THOSE SHOWN TO BE PROTECTED) AND VEGETATION WITHIN THE CLEARING AND GRADING LIMITS SHALL BE CLEARED AND GRUBBED INCLUDING TREE ROOT SYSTEMS. ALL DEBRIS IS TO BE REMOVED FROM THE SITE.
- STRIP TOPSOIL AND STOCKPILE IN A DESIGNATED AREA FOR FUTURE USE. COORDINATE DESIGNATED AREA WITH AE PRIOR TO STRIPPING TOPSOIL.
- LARGE ROCKS AND BOULDERS SHALL BE REMOVED AND DISPOSED FROM THE SITE.

STREET CONSTRUCTION (GRADING) AND EARTHWORK NOTES:

- THE ENGINEER SHALL BE NOTIFIED 24 HOURS PRIOR TO PLACEMENT OF ANY FILL MATERIAL, INSTALLATION OF STORM DRAINAGE PIPE, DRAINAGE STRUCTURES, CURB AND GUTTER, OR PLACEMENT OF CRUSHED STONE OR ASPHALT.
- CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT PERFORM EARTHWORK IN ACCORDANCE WITH THE RECOMMENDATIONS IN SAID REPORT.
- THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER TO INSPECT THE SUBGRADE PRIOR TO PLACING FILL.
- FILL AND BACKFILL SHALL BE PLACED IN HORIZONTAL, NOMINAL 6- TO 8-IN THICK LOOSE LIFTS. EACH LIFT SHALL BE TESTED AND APPROVED PRIOR TO PLACING SUBSEQUENT LIFTS.
- THE SUBGRADE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS AND SECTION 212 OF THE ARKASAS STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. PRIOR TO PLACING THE CRUSHED STONE BASE COURSE THE SUBGRADE SHALL BE PROOF ROLLED, AND MUST BE VERIFIED TO CONFORM TO THE GRADES AND SLOPES SHOWN ON THE DRAWINGS.
- ALL MUD SOIL, AND LOOSE GRAVEL SHALL BE REMOVED FROM THE CRUSHED STONE BASE AND CONCRETE CURB PRIOR TO PLACEMENT OF ASPHALT.
- THE CONTRACTOR SHALL PROVIDE APPROPRIATE ADVANCED WARNING DEVICES, BARRICADES, BARRELS, AND OTHER MEASURES AS NEEDED TO PROPERLY CONTROL AND ADVISE TRAFFIC OF CONSTRUCTION EQUIPMENT.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE THE CONSTRUCTION ACTIVITY OR HAULING OF MATERIAL MAY HAVE ON THE EXISTING STREETS AND/OR ACCESS ROADS.
- COORDINATE WORK WITH OWNER TO MINIMIZE THE EFFECTS OF CONSTRUCTION ON DAILY OPERATIONS OF THE FACILITY.
- COORDINATE ALL DEMOLITION WORK WITH OWNER. VERIFY OWNER DOES NOT WISH TO RETAIN MATERIAL BEFORE IT IS REMOVED AND DISPOSED.
- ALL CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE DESIGNATED AREAS SHOWN ON THE PLANS. ALL AREAS OUTSIDE OF THOSE LIMITS SHALL BE PROTECTED AND MAINTAINED.
- GRADING SHALL BE LIMITED TO THE EXTENT OF THE PROPOSED CONTOURS AND SPOT GRADES SHOWN ON THE PLANS.
- ALL CUT AND/OR FILL SLOPES SHALL BE A MAXIMUM 3H:1V SLOPE OR FLATTER UNLESS OTHERWISE NOTED.
- ALL STORM DRAINAGE PIPE CONNECTIONS TO STRUCTURES SHALL BE GROUTED TO PROVIDE A WATERTIGHT CONNECTION AT THE STRUCTURE.
- ALL DRAINAGE STRUCTURES AND STORM SEWER PIPES INSTALLED IN PAVED AND TRAFFIC AREAS SHALL MEET HEAVY DUTY TRAFFIC (H20) LOADING AND INSTALLED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR H20 LOADING.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH THE PAVEMENT AND SHALL HAVE TRAFFIC BEARING RINGS AND COVERS.
- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL OR STRUCTURAL ENGINEERING PLANS AND SPECIFICATIONS.

GENERAL EROSION CONTROL NOTES:

- SITE CONTRACTOR IS RESPONSIBLE FOR INSTALLING, MONITORING, AND MAINTAINING ALL EROSION & SEDIMENT CONTROL BMPS.
- SITE CONTRACTOR IS RESPONSIBLE TO KEEP AND UPDATE ALL STORM EVENT LOG BOOKS.
- THE CONTRACTOR SHALL IMPLEMENT AN EROSION CONTROL PLAN TO PREVENT MUD, SEDIMENT, AND CONSTRUCTION MATERIALS FROM BEING WASHED OR TRACKED OFF SITE ONTO ADJACENT PROPERTY. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE APPROVED ADEQ CONSTRUCTION STORMWATER PERMIT AND MAINTAIN THE STORMWATER POLLUTION PREVENTION PLAN AT ALL TIMES.
- THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THIS DRAWING (SITE MAP), THE EROSION CONTROL DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE TEMPORARY EROSION CONTROL SECTION OF THE SPECIFICATIONS, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- EROSION CONTROL DEVICES SHALL BE INSTALLED AS THE PROJECT PROGRESSES AND AREAS ARE DISTURBED.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- BEST MANAGEMENT PRACTICES AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, AND OR LOCAL MANUAL OF PRACTICE, AND THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECT BY THE PERMITTING AGENCY OR OWNER.
- THIS EROSION CONTROL PLAN MAY BE REVISED BY ADDING OR DELETING EROSION CONTROL DEVICES AS DIRECTED BY THE ENGINEER.
- THE LOCATIONS OF THESE EROSION CONTROL DEVICES MAY BE CHANGED IF SITE CONDITIONS WARRANT TO PREVENT EROSION.
- ALL WASH WATER (CONCRETE TRUCKS, VEHICLE AND EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- ALL INLETS ON AND ADJACENT TO THE SITE SHALL BE PROTECTED FROM SEDIMENT.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- PERFORM EQUIPMENT AND VEHICLE MAINTENANCE ONLY IN DESIGNATED AREAS. USE DRIP PANS UNDER EQUIPMENT.
- INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND FLOWING RAINFALL EVENTS OF 0.5 INCHES THROUGHOUT THE DURATION OF THIS PROJECT AND UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- ALL DISTURBED AREAS LEFT IDLE FOR A PERIOD OF 14 DAYS OR LONGER ARE TO RECEIVE TEMPORARY VEGETATION AND MULCHED.
- DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND/OR OTHER PETROLEUM-BASED, OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATION IS PROHIBITED.
- SOLID WASTE (INCLUDING TRASH AND DEBRIS) MUST BE DISPOSED OF PROPERLY, AND HAZARDOUS MATERIALS (INCLUDING OIL, GASOLINE, AND PAINT) MUST BE PROPERLY STORED (WHICH INCLUDES SECONDARY CONTAINMENT). PROPERLY MANAGE PORTABLE SANITARY FACILITIES.
- USE DRY CLEANUP METHODS TO COLLECT LITTER AND ABSORB ANY LIQUID WASTES PRIOR TO ANY PRESSURE WASHING. THESE INCLUDE USING ABSORBENTS (RAGS, SAND, ETC.), SWEEPING, AND SCRAPPING OFF DRIED DEBRIS.
- RUBBISH, TRASH, GARBAGE, OR LITTER SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM BEING BLOWN OR WASHED OFF-SITE.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE/EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES EXIT ONTO THE PUBLIC ROADS. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF SITE.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- ON-SITE AND OFF-SITE STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH ADEQ CONSTRUCTION STORMWATER PERMIT.
- ALL MATERIALS MUST BE STORED OUT OF THE WAY OF VEHICULAR TRAFFIC.
- ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
- EROSION CONTROL FACILITIES REQUIRED BY THESE PLANS AND/OR THE FACILITY PERMIT ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL FACILITIES AS NECESSARY.
- REMOVE EROSION CONTROL DEVICES AFTER PERMANENT VEGETATION IS ESTABLISHED.

ADDITIONAL EROSION CONTROL NOTES:

INITIAL SITE PREPARATION:

- INSTALL STABILIZED CONSTRUCTION ENTRANCES/EXITS.
- SITE CONTRACTOR SHALL SUBMIT TO ENGINEER FOR APPROVAL A SITE MAP SHOWING THE PROPOSED LOCATIONS OF THE FOLLOWING: TRAILER, PARKING, LAY DOWN, PORTAJ-POTTY, WHEEL WASH, CONCRETE WASH-OUT, MASON'S AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROGRESS.
- CONSTRUCT THE SILT FENCES ON THE SITE AS INDICATED ON THE PLANS.
- CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BASINS.
- CONTACT THE ENGINEER TO PERFORM INSPECTION OF THE BMPS. SITE CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING SUB-CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
- CLEAR AND GRUB THE SITE WITHIN THE LIMITS OF WORK SHOWN ON THE PLANS.
- CONTRACTOR SHALL BEGIN GRADING THE SITE AND BEGIN CONSTRUCTION.

DURING CONSTRUCTION:

- TEMPORARILY SEED DISTURBED AREAS.
- INSTALL INLET PROTECTION AROUND ALL NEWLY CONSTRUCTED STORM SEWER STRUCTURES.
- AFTER PAVING, INSTALL INLET PROTECTION DEVICES.
- AT THE COMPLETION OF GRADING INSTALL PERMANENT SEEDING AND PLANTINGS.
- ONCE SITE IS STABILIZED, THE CONTRACTOR CAN REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES.
- ON AN AS-NEEDED BASIS OR AS DIRECTED BY THE CITY OR OWNER, THE CONTRACTOR SHALL CONTROL DUST BY EXPOSING THE SOIL SURFACE TO MOISTURE PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST.

UTILITY NOTES:

- EXISTING STRUCTURES AND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND FOR INFORMATION PURPOSES ONLY. ALL STRUCTURES AND UTILITIES MAY NOT BE SHOWN. ALL EXISTING UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION (WHETHER SHOWN OR NOT SHOWN). UTILITY SERVICE MUST BE MAINTAINED DURING AND AFTER CONSTRUCTION
- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- ALL WATER LINE AND SANITARY SEWER WORK MUST BE PERFORMED IN ACCORDANCE WITH (LOCAL JURISDICTION) STANDARD SPECIFICATIONS AND DETAILS, AND SHALL BE COORDINATED WITH LOCAL JURISDICTION
- THE CONTRACTOR SHALL COORDINATE THE CONNECTIONS TO THE EXISTING WATER LINES WITH THE LOCAL JURISDICTION.
- PROVIDE THRUST BLOCKING FOR THE PROPOSED WATERLINES AS SHOWN ON THE DETAIL SHEETS AND AS REQUIRED BY THE LOCAL JURISDICTION.
- ALL WATER AND SEWER LINES AND SERVICES CROSSING ROADWAYS ARE TO BE BACKFILLED WITH COMPACTED CLASS 7 AGGREGATE BASE COURSE.
- ALL WATER MAINS SHALL BE A MINIMUM OF 3-FT BELOW FINISHED GRADE AND A MINIMUM OF 1-FT BELOW STORM DRAINS.
- ALL WATER MAINS ARE TO CROSS OVER SEWER MAINS WITH A MINIMUM OF 18-IN OF VERTICAL SEPARATION AND WATER AND SEWER MAINS SHALL HAVE A MINIMUM OF 10-FT HORIZONTAL SEPARATION.
- ALL SANITARY SEWER WORK SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE LOCAL JURISDICTIONS STANDARD SPECIFICATIONS AND DETAILS AND SHALL BE COORDINATED WITH THE LOCAL JURISDICTION.

EXISTING LEGEND

	FOUND MONUMENT (AS NOTED)		DOWNSPOUT		OVH		OVERHANG
	COMPUTED POINT		METAL PIPE		N/F		NOW OR FORMERLY
	TEMPORARY BENCHMARK		POLYVINYL CHLORIDE				BOUNDARY LINE
	FIRE HYDRANT		CORRUGATED METAL PIPE		R/W		RIGHT-OF-WAY LINE
	LIGHT		REINFORCED CONCRETE PIPE		C/L		CENTERLINE
	GUY ANCHOR		EDGE OF GRAVEL				FENCE LINE
	AIR CONDITIONER		EDGE OF CONCRETE		OHE		OVERHEAD POWER LINE
	POWER POLE		TOP OF CONCRETE		FOP		UNDERGROUND FIBER OPTIC LINE
	FIRE DEPARTMENT CONNECTION		EDGE OF ASPHALT		SS		UNDERGROUND SANITARY SEWER LINE
	ELECTRIC BOX		CROWN OF ROAD		GAS		UNDERGROUND GAS LINE
	SANITARY SEWER MANHOLE		TOP OF ASPHALT		WL		UNDERGROUND WATER LINE
	SIGN		TOP OF BANK				CULVERT
	WATER VAULT		TOP OF GRAVEL				CONTOUR INDEX LINE
	DRAIN GRATE		BOTTOM OF BANK				CONTOUR INTERIOR LINE
	FIBER OPTIC MARKER		NATURAL GROUND				DRIP LINE
			SIDEWALK				

PROPOSED DEMOLITION LEGEND

	TREE TO BE REMOVED
	PAVEMENT & STRUCTURE REMOVAL AREA
	MILL & OVERLAY AREA
	SAWCUT PAVEMENT LINE
	TREE PRESERVATION FENCING

PROPOSED UTILITY LEGEND

	W	WATER LINE
		WATER METER
		WATER VALVE
		FDC
		FIRE HYDRANT
	SS	SANITARY SEWER
	UGE	UNDERGROUND ELECTRIC LINES/CONDUIT
	OHE	OVERHEAD ELECTRIC
		TRANSFORMER AND CONCRETE PAD
	TELE	FIBER LINE
	COMM	COMMUNICATION LINE
	GAS	GAS LINE
		GAS METER

PROPOSED GRADING & DRAINAGE LEGEND

	JUNCTION BOX
	CURB INLET
	CONCAVE GRATE INLET
	AREA INLET
	NYLOPLAST CATCH BASIN
	FLARED END SECTION
	HDPE STORM PIPE
	PERFORATED HDPE STORM PIPE
	RCP/RCHP STORM PIPE
	PROPOSED 1 FT. CONTOUR ELEVATION
	PROPOSED 5 FT. CONTOUR ELEVATION
	SPOT ELEVATIONS
	FLOWLINE

ABBREVIATIONS

BC	BOTTOM OF CURB
BW	BOTTOM OF WALL
CL	CENTERLINE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
DIA	DIAMETER
DWG	CAD DRAWING
E	EASTING
ELEV	ELEVATION
EX	EXISTING
EG	EXISTING GRADE
FES	FLARED END SECTION
FFE	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FL	FLOWLINE
FT	FEET
GA	GAUGE
GMP	GAS MONITORING PROBE
HDPE	HIGH DENSITY POLYETHYLENE
HORZ	HORIZONTAL
ID	INSIDE DIAMETER
INVT	INVERT
LB	POUNDS
LEN	LENGTH
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
N	NORTHING
N.T.S.	NOT TO SCALE
OC	ON CENTER
OCEW	ON CENTER EACH WAY
OD	OUTSIDE DIAMETER
PL	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
PVT	PAVEMENT
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
SCH	SCHEDULE
SS	STAINLESS STEEL
SQ	SQUARE
STA	STATION
STD	STANDARD
TC	TOP OF CURB
TW	TOP OF WALL
TYP	TYPICAL
VERT	VERTICAL

PROPOSED EROSION CONTROL LEGEND

	CONSTRUCTION ENTRANCE
	CONCRETE WASHOUT
	WIRE REINFORCED SILT FENCE
	GRATE INLET PROTECTION
	CURB INLET PROTECTION
	TEMPORARY ROCK CHECK DAM
	LIMITS OF DISTURBANCE
	FLOW ARROW



E | D | G

FENNELL | PURIFOY
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REVISIONS:

CONSTRUCTION DOCUMENTS

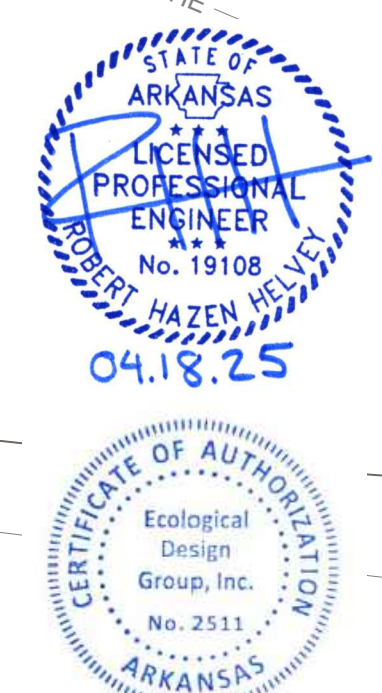
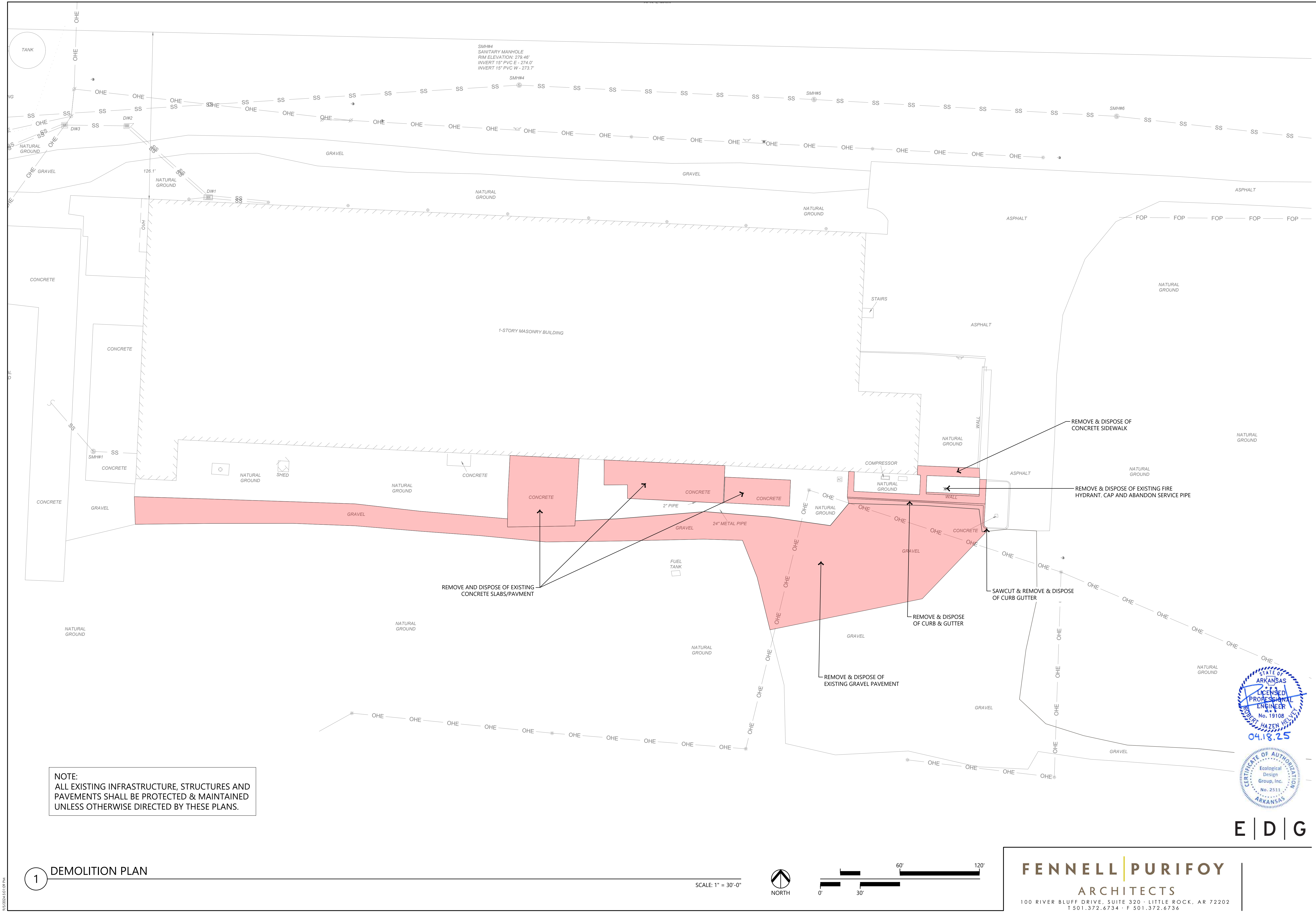
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GENERAL NOTES & LEGENDS

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UACCB GATEWAY CENTER FARM
2210 E. Main Street, Batesville, AR

1 GENERAL NOTES & LEGENDS



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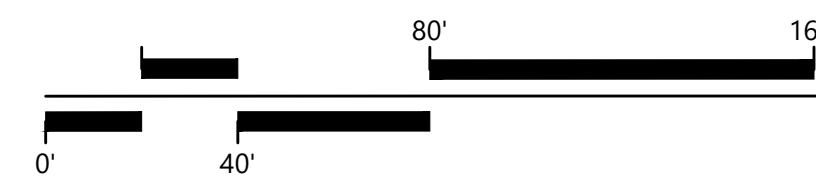
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1 UTILITY PLAN

SCALE: 1" = 40'-0"



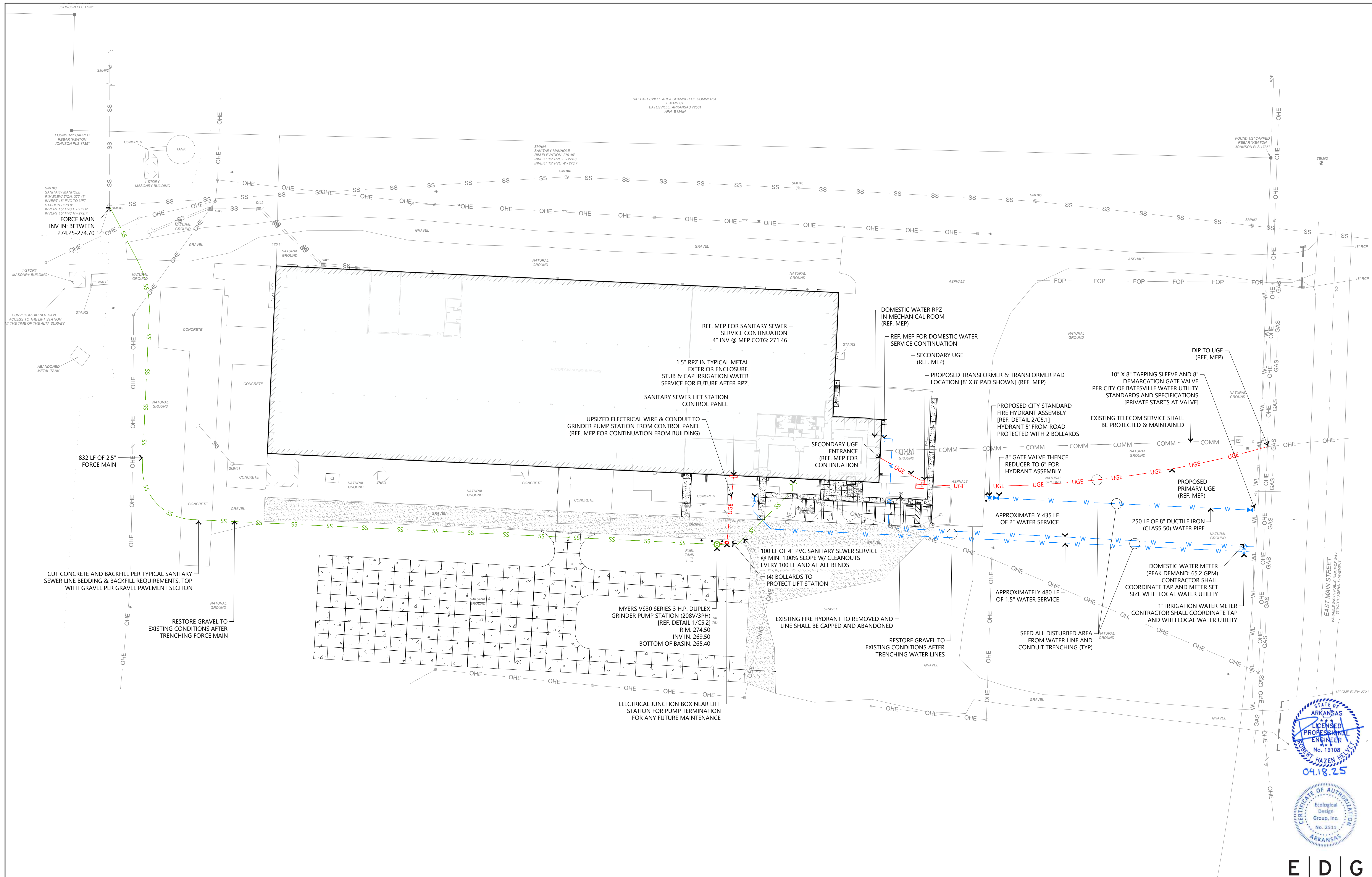
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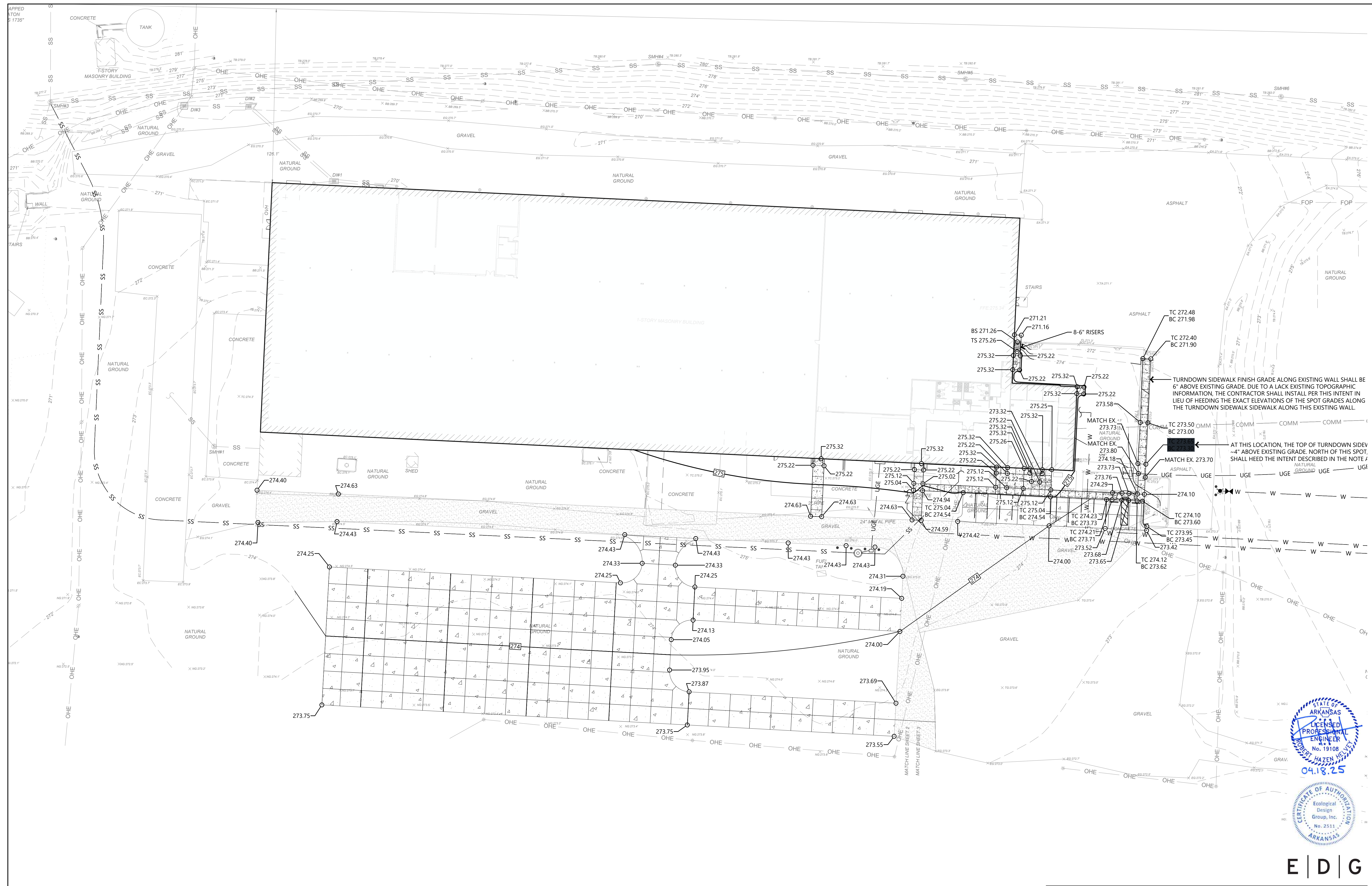
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CONSTRUCTION DOCUMENTS
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UACCB GATEWAY CENTER FARM
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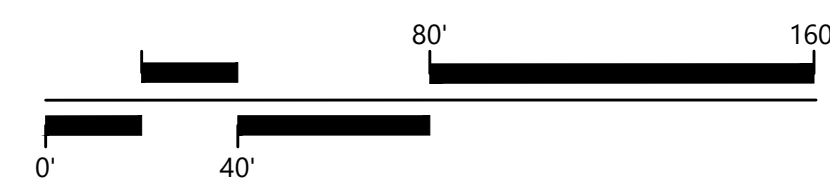




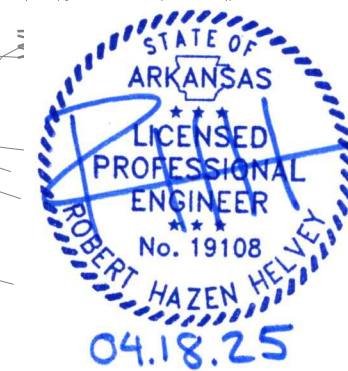
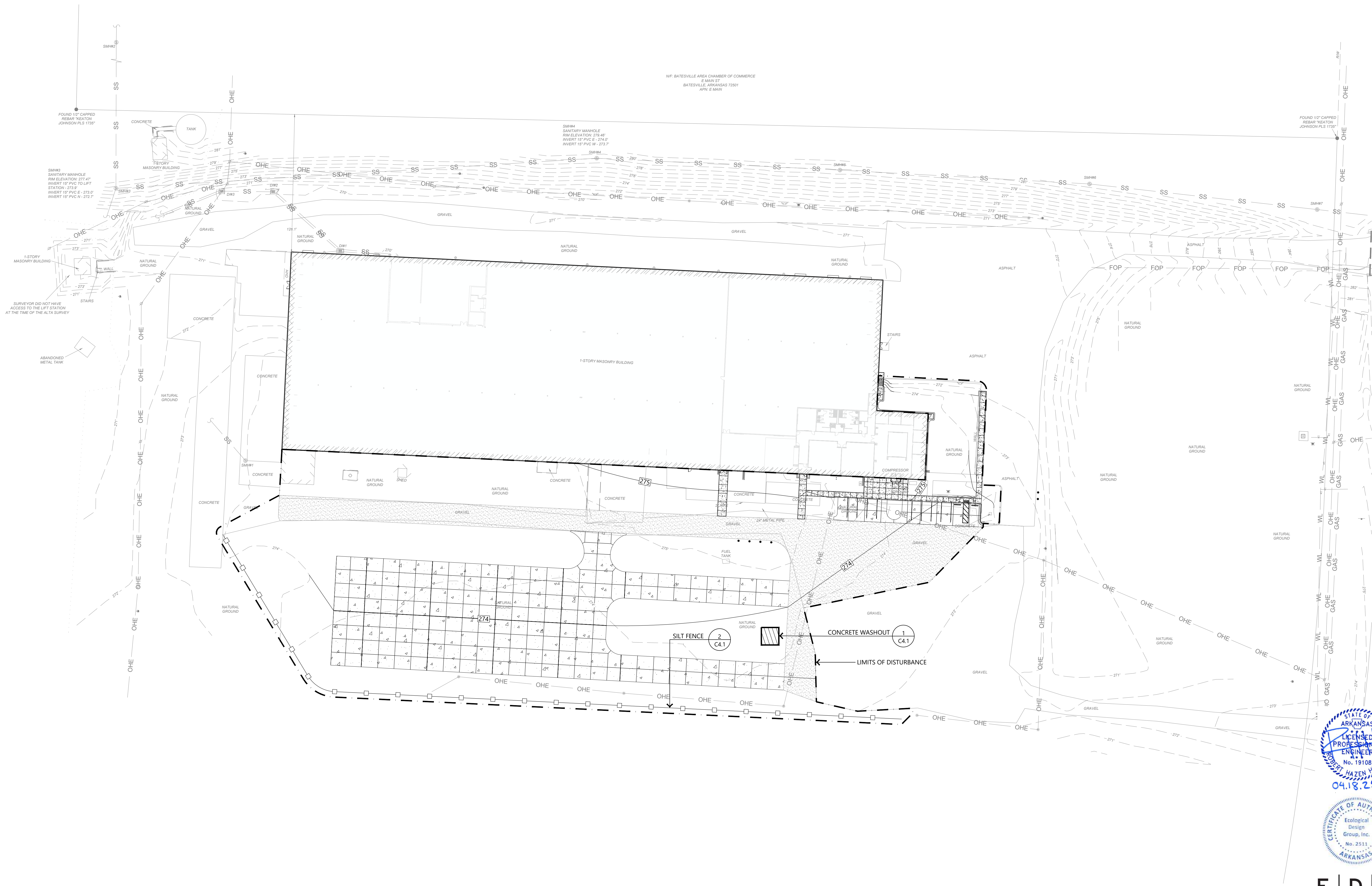
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1 EROSION CONTROL PLAN

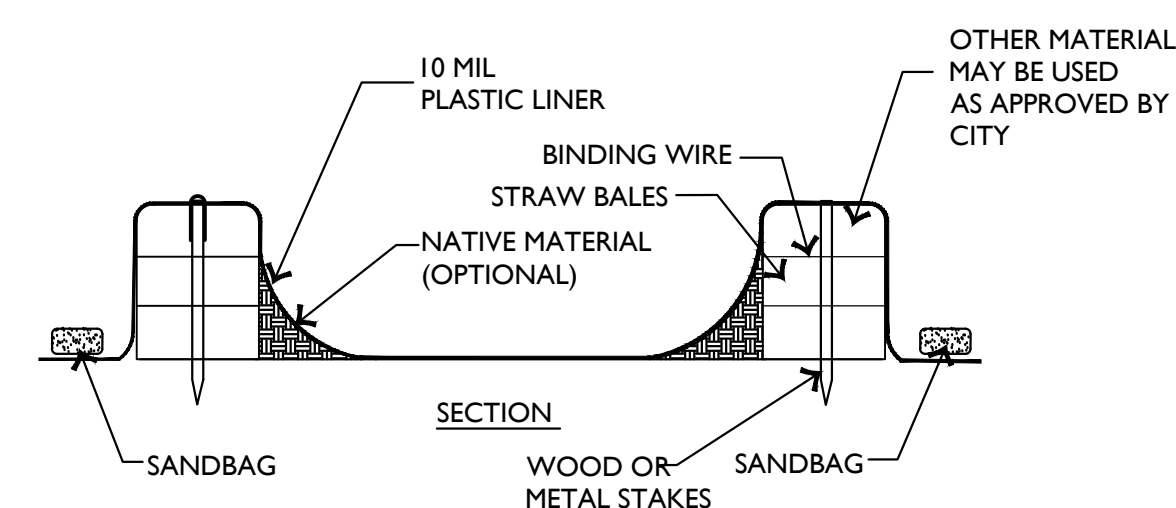
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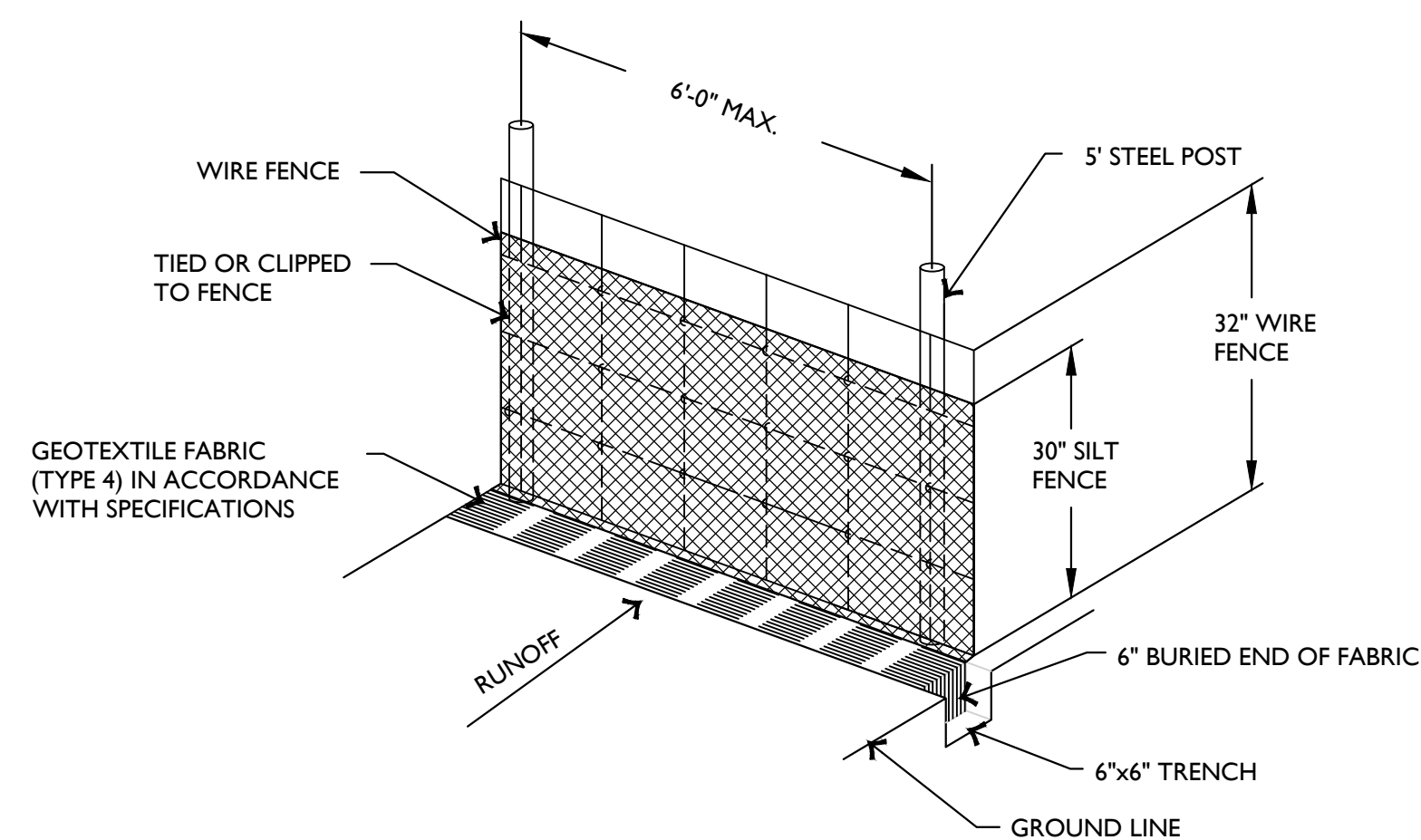
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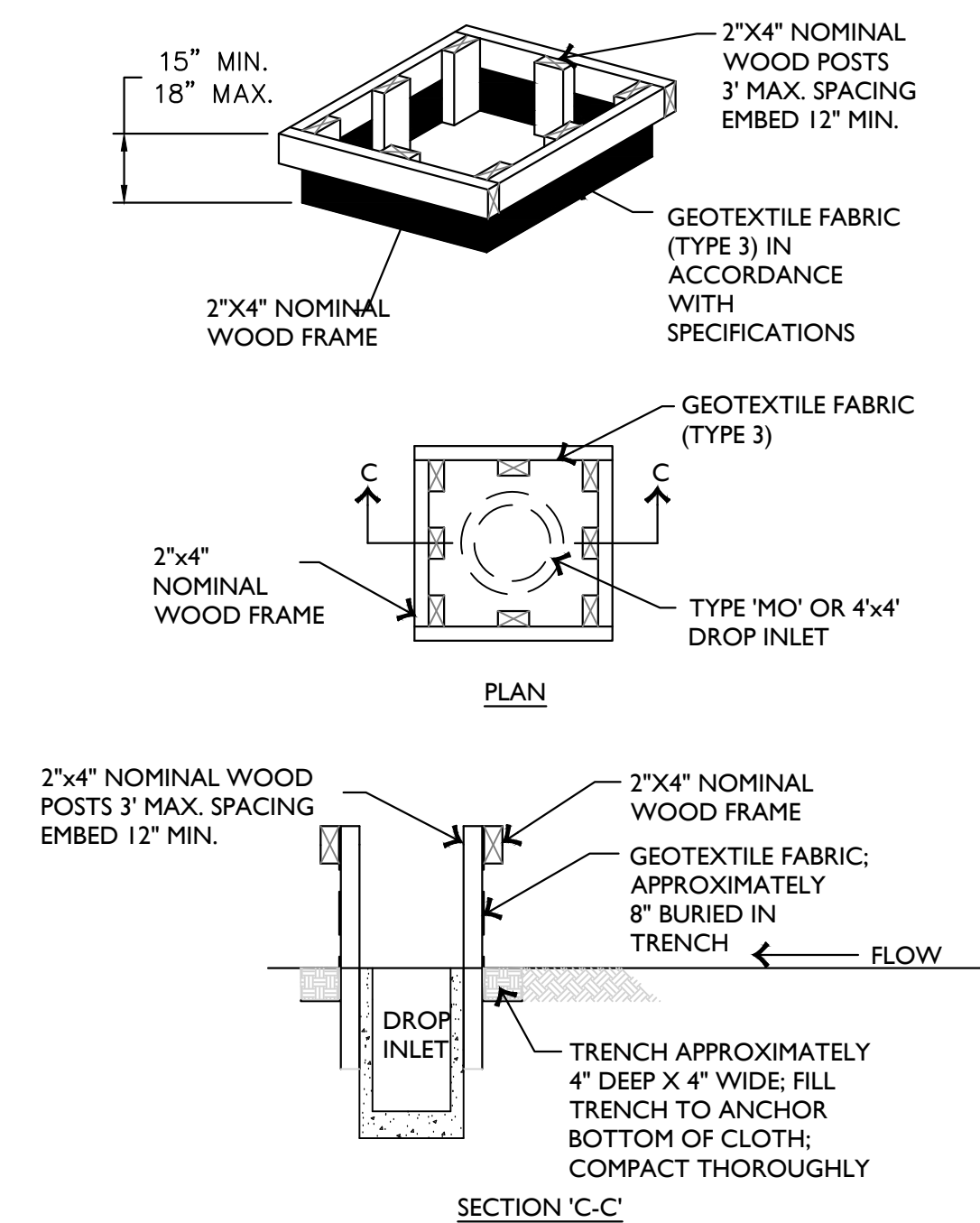
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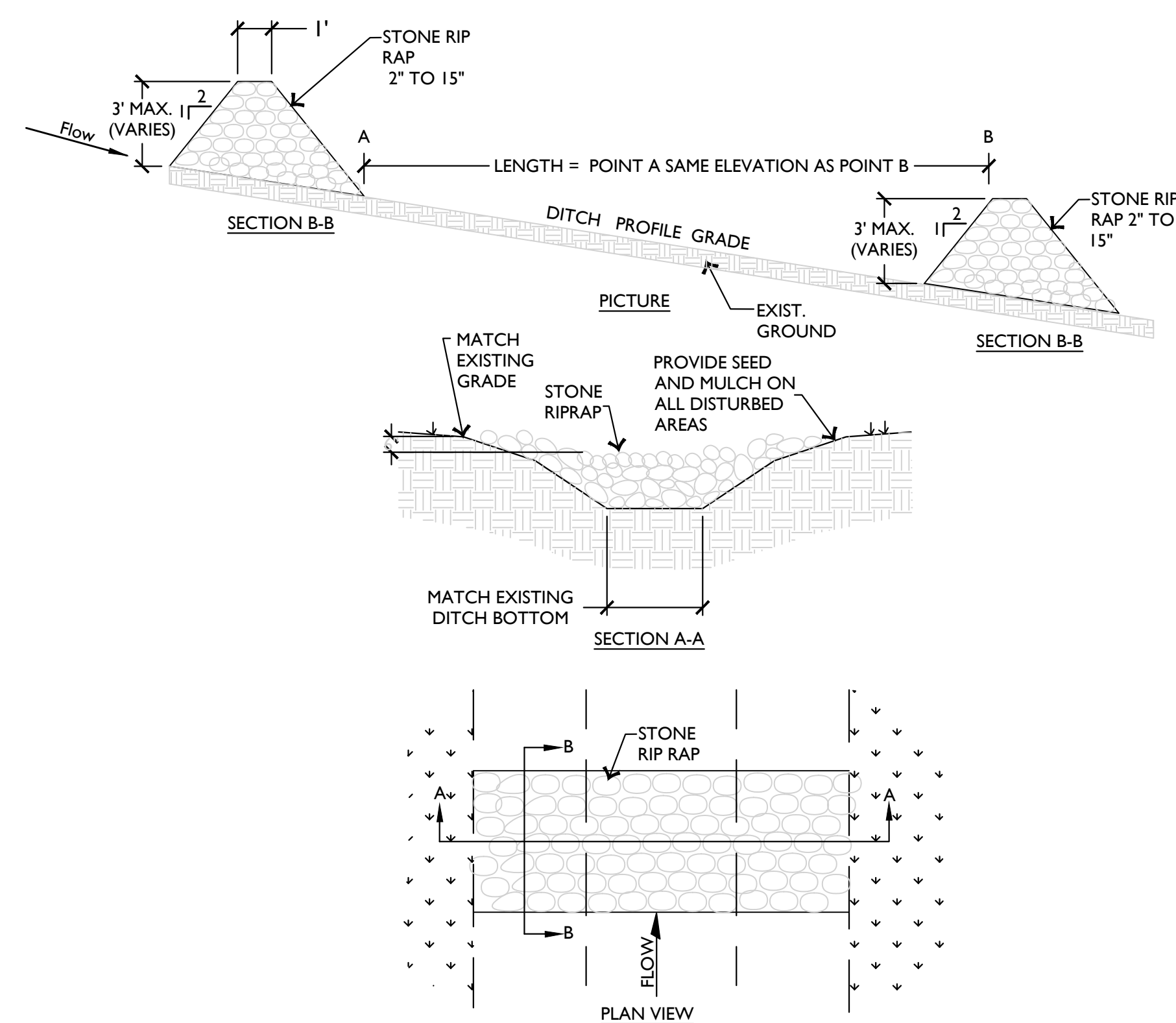
1. NO WASHOUT OUT OF CONCRETE TRUCKS OR WASHING OF SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS IS ALLOWED.
2. EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT PIT AREAS.
3. ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES AS DETERMINED IN THE FIELD.
4. TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
5. WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 50% COMPLETE.
6. PLASTIC LINING MATERIAL WILL BE MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
7. WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE WILL BE REMOVED AND DISPOSED OF OFFSITE. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE REMOVED FROM THE SITE AND DISPOSED OF.



1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. HERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



SCALE: N.T.S.



1. EXCAVATE KEY-WAY (IF REQUIRED)
2. A GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE SOIL SURFACE WHERE THE ROCK IS TO BE PLACED (IF REQUIRED)
3. ROCK DIAMETERS SHOULD BE 2" TO 15" IN DIAMETER
4. ROCK DITCH CHECKS SHOULD NOT EXCEED 3 FEET
5. STONES SHOULD BE PLACED UP THE CHANNEL BANKS TO PREVENT WATER FROM CUTTING AROUND THE DITCH CHECK
6. INSTALLATION SHALL BE PLACED EITHER BY HAND OR MECHANICALLY AND NOT JUST DUMPED TO ACHIEVE COMPLETE COVERAGE
7. THE DITCH ANCHORS THE CENTER OF THE DAMN IS LOWER THAN THE EDGES
8. MAXIMUM SPACING BETWEEN MULTIPLE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM CHECK IS THE SAME AS THE TOP OF THE DOWNSTREAM CHECK

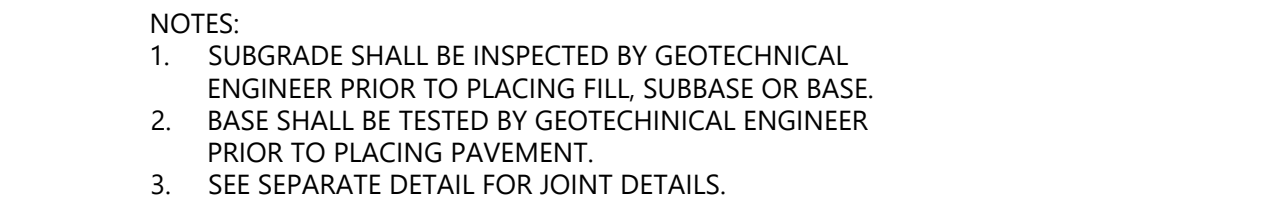
- INSPECT ROCK DITCH CHECKS EVERY (7) CALENDAR DAYS AND WITH-IN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/8" PRECIPITATION.
- SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 1/2 THE ORIGINAL CHECK HEIGHT.
- IN THE CASE OF GRASS-LINED DITCHES OR SWALES, ROCK DITCH CHECKS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE, IF THE SLOPE IS 4% OR LESS.
- THE AREA BENEATH THE ROCK DITCH CHECKS SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER THE CHECK DAM REMOVAL.

SCALE: NTS

SCALE: N.T.S.

SCALE: N.T.S.





NOTES:

1. SUBGRADE SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL, SUBBASE OR BASE.
2. BASE SHALL BE TESTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING PAVEMENT.
3. SEE SEPARATE DETAIL FOR JOINT DETAILS.

1/8" RAD.

1/4" TOOLED JOINT

T/4

TOOLED CONTRACTION
JOINT

2'-0"

5"

1/2" R

2"

2" R

6"

2" R

SLOPE 3/4" PER FOOT (TYP)

1/2" R

MIN. 1'-0"

6"

6"

MIN. 6"

COMPACTED CLASS 7 BASE PER ADJACENT PAVEMENT DETAIL (REF. SEPARATE DETAIL)

NOTE:

1. SUBGRADE SHALL BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACING BACKFILL, BASE AND PAVEMENT.
2. SUBGRADE AND BASE MATERIAL SHALL BE TESTED PER REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.

NOTES:

1. PROVIDE TRANSVERSE CONTRACTION JOINTS AT INTERVALS NOT EXCEEDING 10'-0" ON CENTER OR AS SHOWN ON PLAN. PROVIDE CENTERLINE CONTRACTION JOINTS IN SIDEWALKS WIDER THAN 10'-0". SPACING OF CENTERLINE CONTRACTION JOINTS SHALL NOT EXCEED 10'-0" OR AS SHOWN ON PLAN.
2. PROVIDE EXPANSION JOINTS AT INTERVALS NOT EXCEEDING 40'-0" ON CENTER OR NEXT TO STRUCTURES OR DRIVES.
3. REF. PLANS FOR JOINT LAYOUT.

The image contains two technical drawings of a van accessible parking stall, labeled 'SIDE ELEVATION' and 'FRONT ELEVATION'.

SIDE ELEVATION:

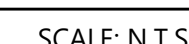
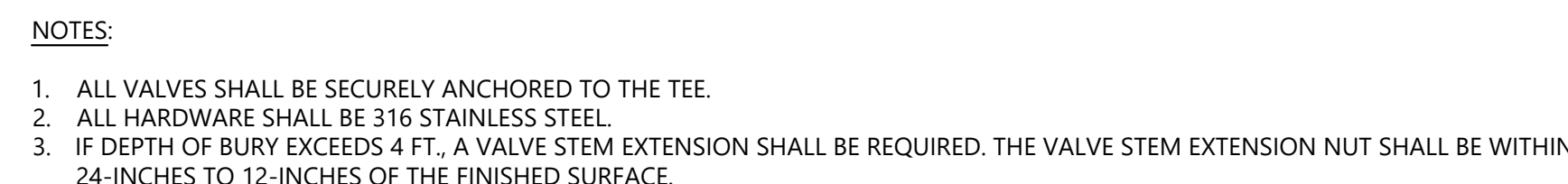
- Shows a side view of the parking stall with a 1'-0" wide opening at the top.
- Indicates a 7'-0" height for the main structure.
- Shows a 3'-0" height for the concrete footing.
- Labels include: 'WATER-TIGHT CAP, WELD AND GRIND SMOOTH', '1 1/4" ROUND TUBE STEEL, WELD AND GROUND SMOOTH', 'CONCRETE TO BE MIN. 3" BELOW FINISHED GRADE (TYP.)', 'FINISHED GRADE', 'CONC. FOOTING 12" DIA.', and '4" COARSE GRAVEL'.

FRONT ELEVATION:

- Shows a front view of the parking stall with a 1'-0" wide opening at the top.
- Indicates a 7'-0" height for the main structure.
- Shows a 3'-0" height for the concrete footing.
- Labels include: 'PARKING' (with a wheelchair symbol), 'VAN ACCESSIBLE' (with a van symbol), 'TYP. ACCESSIBLE SIGNAGE, BLUE SYMBOL ON WHITE BACKGROUND', 'VAN ACCESSIBLE SIGN (IF STALL IS VAN ACCESSIBLE, REF. PLANS)', '1'-6" (height of the sign area), and '6" (width of the concrete footing).

C5.0

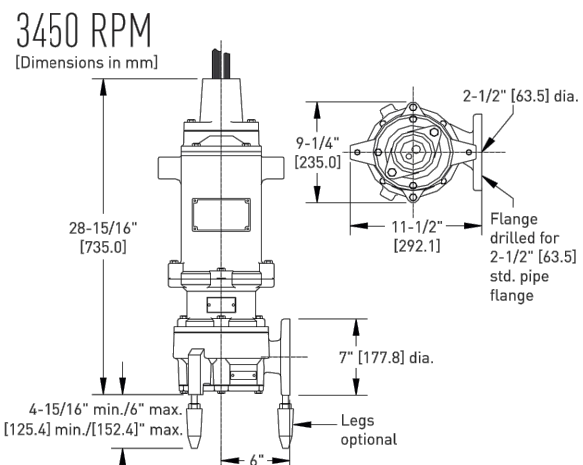
1. AMERICAN FLOW CONTROL SERIES 2500
2. MUELLER SERIES 2360
3. AMERICAN AVK COMPANY SERIES 25 OR SERIES 45
4. CLOW 2638



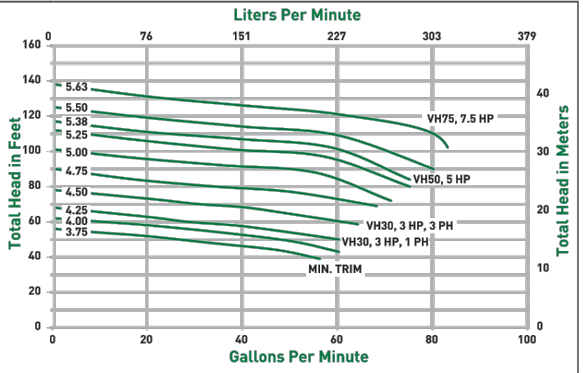
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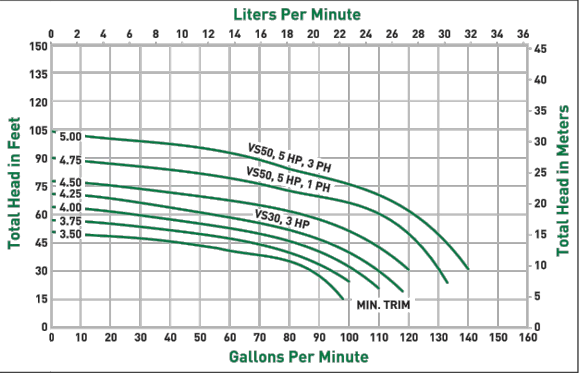
PERFORMANCE DATA AND DIMENSIONS



VH75 – VH30 Performance



VS50 – VS30 Performance



1101 MYERS PARKWAY, ASHLAND, OH 44805 WWW.FEMYMERS.COM
PH: 855-274-8947

Because we are continually improving our products and services, Pentair reserves the right to change specifications without prior notice.

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MYERS®

Specifications
VS50

PUMP MODEL – Pump shall be of the centrifugal type Myers® model VS30 or equal with an integrally built-in grinder unit and submersible type motor. Discharge shall be standard 2" flange.

OPERATING CONDITIONS – Pump shall have a capacity of 70 GPM at a total head of 82 feet and shall use a 3 HP motor operating at 3450 RPM.

MOTOR – Pump motor shall be of the totally enclosed, submersible, squirrel cage induction type rated 3 horsepower at 3450 RPM, 60 Hz.

Motor shall be for three phase 460 volts. Three-phase motors shall be NEMA B type.

Stator winding shall be of the open type with Class F insulation good for 155°C (311°F) maximum operating temperature. Winding housing shall be filled with a clean high dielectric oil that lubricates bearings and seals and transfers heat from windings and rotor to outer shell. Air-filled motors, which do not have the superior heat dissipating capabilities of oil-filled motors, shall not be considered equal.

Motor shall have two heavy duty ball bearings to support pump shaft and take radial and thrust loads and a sleeve guide bushing directly above the lower seal to take radial load. Ball bearings shall be designed for 50,000 hours B-10 life. Stator shall be heat shrunk into motor housing.

A heat sensor thermostat shall be attached to top end of motor winding and shall be connected in series with the magnetic contactor coil in control box to stop motor if motor winding temperature reaches 221°F. Thermostat to reset automatically when motor cools. Three heat sensors shall be used on three-phase motors.

The common motor pump and grinder shaft shall be of #416 stainless steel threaded to take pump impeller and grinder impeller.

SEALS – Motor shall be protected by two mechanical seals mounted in tandem with a seal chamber between the seals. Seal chamber shall be oil filled to lubricate seal face and to transmit heat from shaft to outer shell.

Seal face shall be carbon and ceramic and lapped to a flatness of one light band. Lower seal faces shall be carbide (optional).

A double electrode shall be mounted in the seal chamber to detect any water entering the chamber through the lower seal. Water in the chamber shall cause a red light to turn on at the control box. This signal shall not stop motor but shall act as a warning only, indicating service is required.

PUMP IMPELLER – The pump impeller shall be of the semi-open type. Impeller shall be of 316 SST and shall be threaded onto stainless steel shaft.

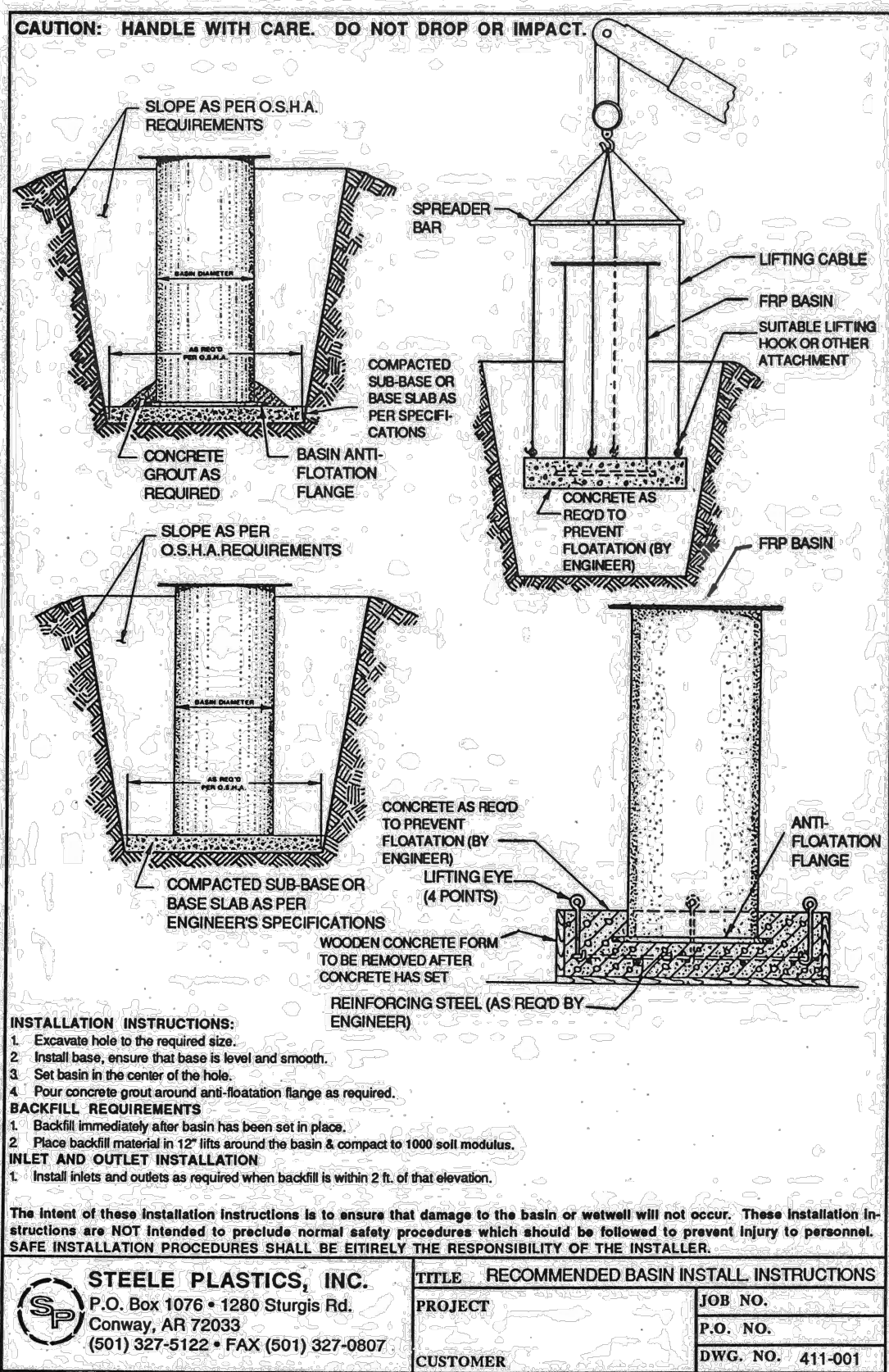
GRINDER MECHANISM – The stationary cutter shall be circular in design and contain evenly spaced cutting slots that extend outward from the inlet of the pump. The slots are tapered inward toward the inlet to help direct slurry through the cutting slots into the pump. The slots are to be angled, or undercut, to help maintain a sharp axial cutting edge, even as the axial face wears during use. The stationary cutter shall be pressed into the suction opening of the volute and held in place by four 300 series stainless steel screws. The stationary cutter shall be provided with tapped back-off holes so that screws can be used to remove the cutter from the volute. The rotating cutter shall contain three axial cutting arms extending from the hub, perpendicular to the pump shaft, that are shaped to aid in the rejection of suspended debris that has not been sufficiently reduced in size by the axial cutting action. The curved, leading edge of the cutting arms shall create a scissor action with the cutting slots of the stationary cutter plate to minimize the required torque. This will allow the cutter to macerate tough objects and prolong cutter life. Serrations on the hub of the cutter add additional cuts that prevent debris from becoming entangled within the rotating cutter. The rotating cutter shall thread onto the end of the pump shaft and be secured by a 300 series stainless steel washer in conjunction with a 300 series stainless steel flat head cap screw threaded into the end of the shaft. Both stationary and rotating cutters shall be made of 440C stainless steel, hardened to Rockwell 57-60C and ground close to tolerance. The grinder shall be capable of grinding normal domestic sewage into a fine slurry.

CORROSION PROTECTION – The pump shall be painted with waterborne hybrid acrylic/alkyd paint. This custom engineered, quick dry paint shall provide superior levels of corrosion and chemical protection. All fasteners to be 300 series stainless steel.

BEARING END CAP – Upper motor bearing cap shall be a separate casting for easy mounting and replacement.

POWER CABLES – Power cord and control cord shall be double sealed. The power and control conductor shall be single strand sealed with epoxy potting compound and then clamped in place with rubber seal bushing to seal outer jacket against leakage and to provide for strain pull. Cords shall withstand a pull strain.

Insulation of power and control cords shall be type SOOW or W. Both control and power cords shall have a green carrier ground conductor that attaches to motor frame.



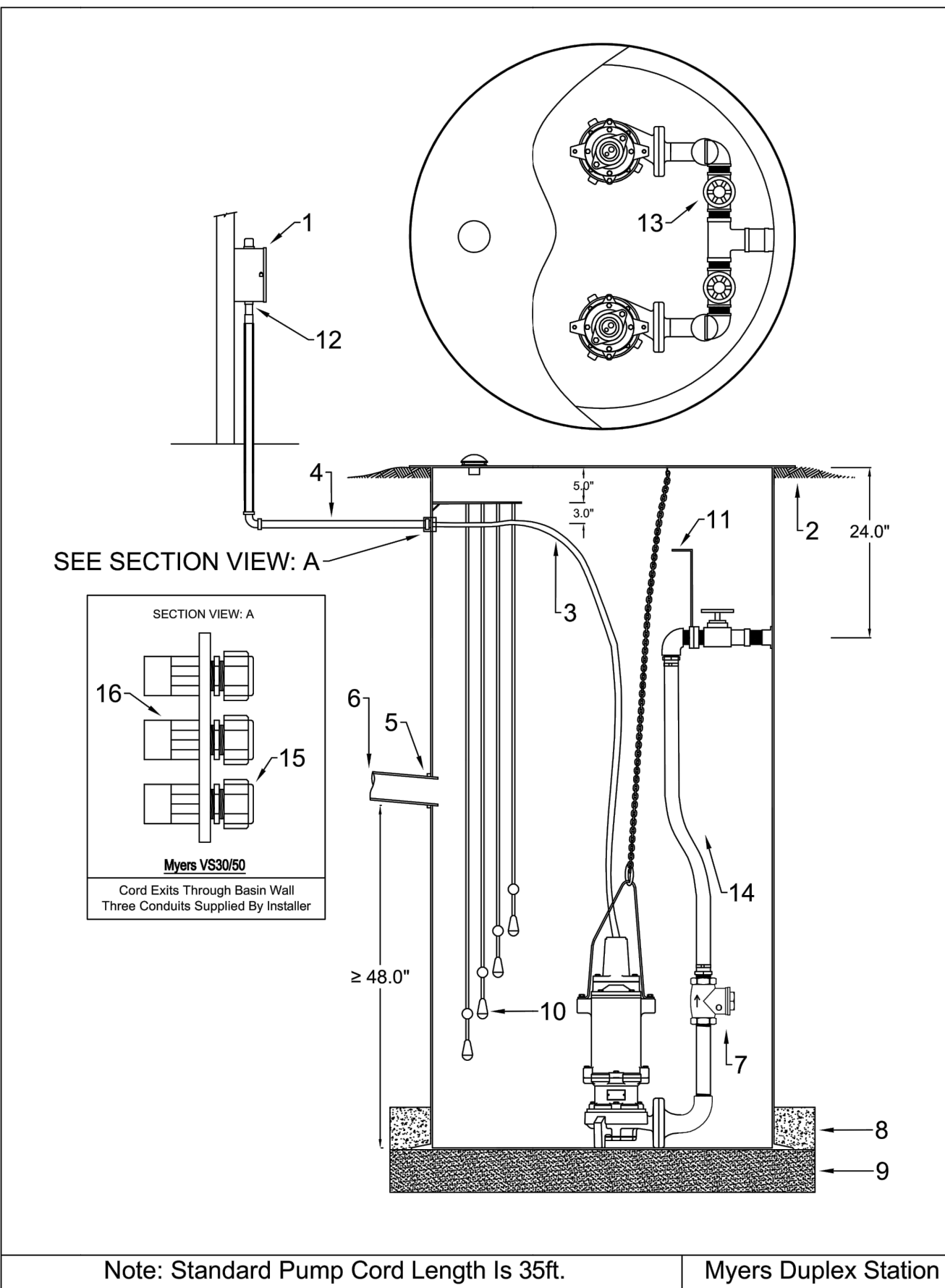
Myers VS30/50 Duplex Station
Grinder Pump Station Feature Identification

- Alarm Panel** – NEMA 4x Enclosure, Equipped with circuit breakers and audio visual alarm. Available in 1 or 3 phase. Locate according to local codes. Should be placed in a highly visual area.

Note:

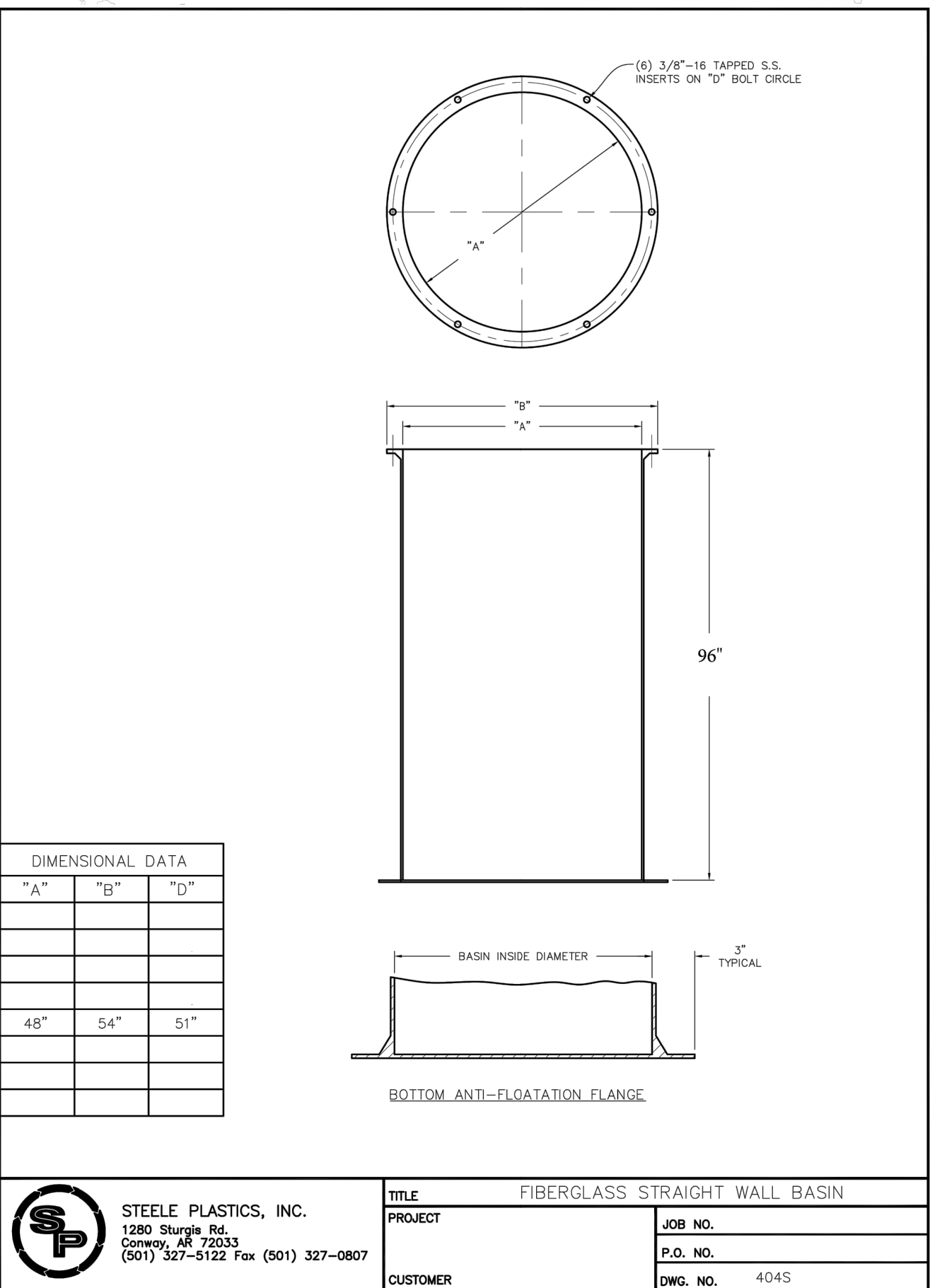
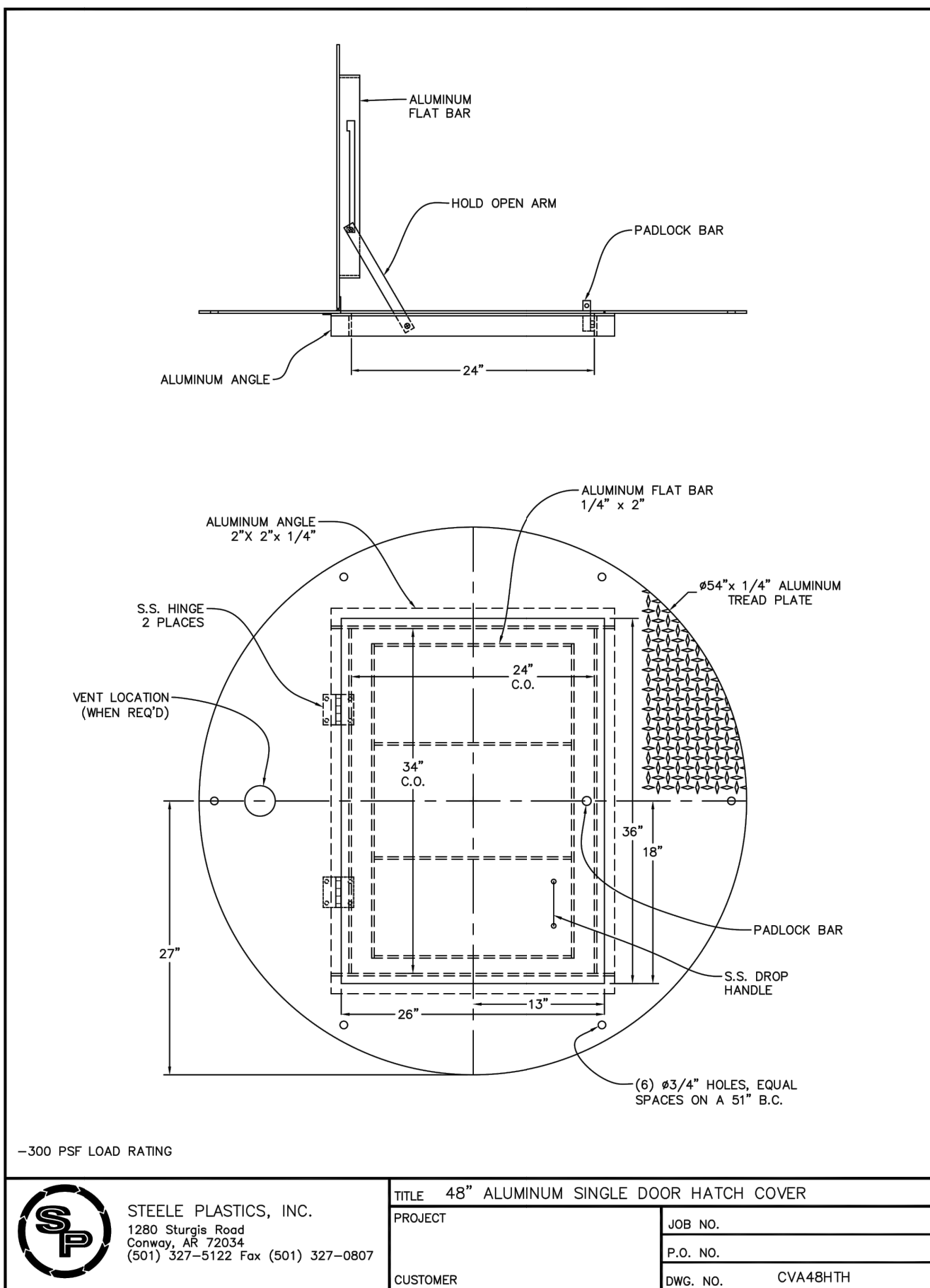
a. Standard pump cords are 35ft. long.
- Finish Grade** – Grade line to be 1" - 4" below removable lid and sloped away from the station.
- Power and Alarm Supply Cable** – Must meet national and local electrical codes. ALL excess cable should be pulled from basin to factory cable stop.
- Three Conduits** – Installer must supply three 1" conduits from the basin to the control panel. Burial depth as required by national and local codes. Conduits must enter the panel from bottom and be sealed per NEC Code 300.5 and 300.7. Supplied by others.
- Inlet** – 4" Sch. 40 PVC grommet, supplied loose. Field installation utilizing 5" hole saw. Inlet must be a minimum of 48" from the bottom of the basin.
- 4" Gravity Service Line** - Supplied by others.
- Brass Check Valve, 2.00"**
- Concrete Ballast** – Per local requirements. Supplied by others.
- Bedding Material** – 6" Minimum depth, round aggregate (gravel). Supplied by others.
- Level Sensing Floats**
- SST Pull Out Rod**
- Sealed Conduit Connector** - O-ring type. Supplied by others.
- Brass Gate Valve, 2.00"**
- Flexible Hose Assembly** – Includes SST hose barb adapters.
- 1" Cord Grip**
- 1" PVC Coupling, Glue End**

NOTE:
CONTACT JACK TYLER ENGINEERING INCORPORATED FOR FULL SUBMITTAL DETAILS AND FOR ANY QUESTIONS.
(501) 562.2296
PROJECT CONTACT: KAMMI CONWAY
KCONWAY@JTENG.COM



Note: Standard Pump Cord Length Is 35ft.

Myers Duplex Station



STEEL PLASTICS, INC.			FIBERGLASS STRAIGHT WALL BASIN		
1280 Sturgis Rd. Conway, AR 72033 (501) 327-5122 • FAX (501) 327-0807			PROJECT		
CUSTOMER			JOB NO.		
			P.O. NO.		
			DWG. NO. 4045		

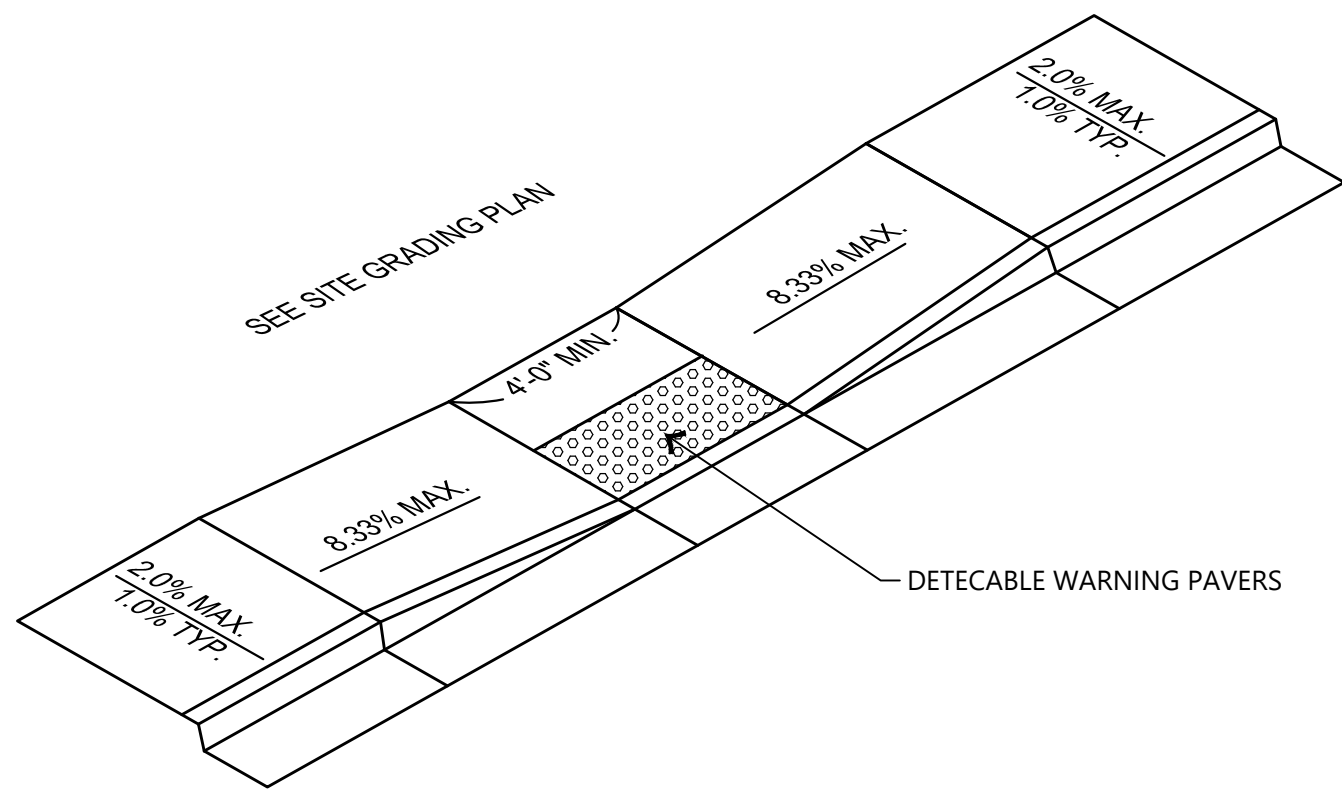


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REVISIONS:

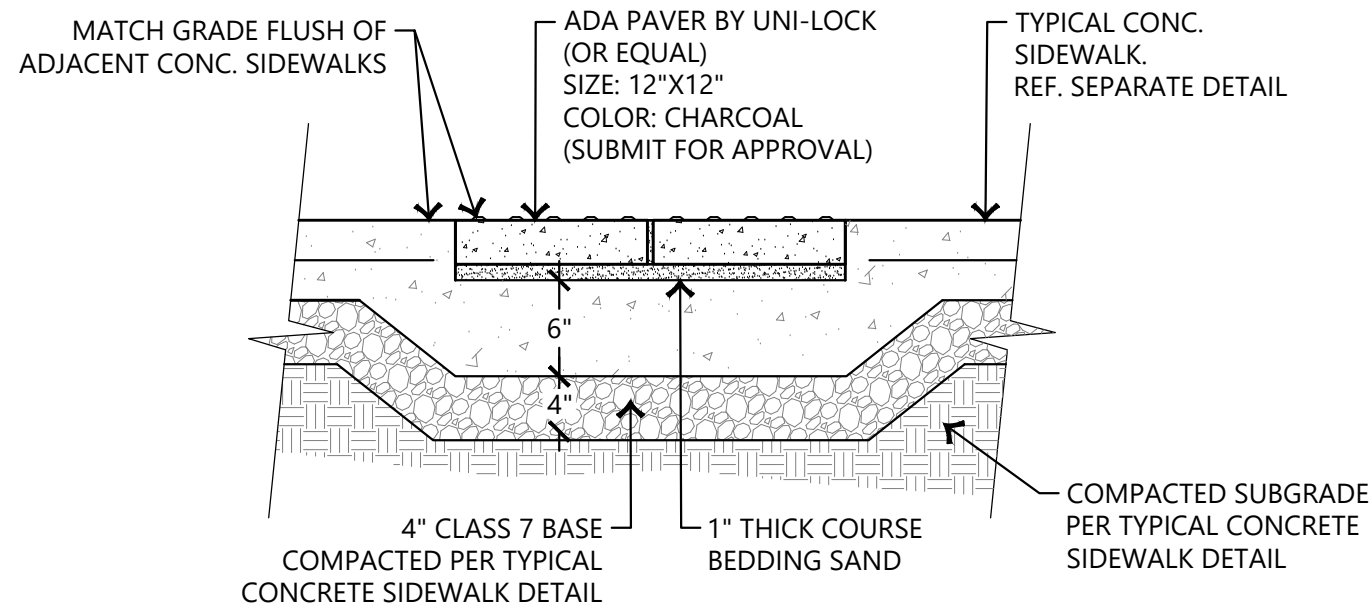
CONSTRUCTION DOCUMENTS
04.18.2025

SITE DETAILS
C5.2



RAMP NOTES:

1. FULL DEPTH EXPANSION JOINTS (FOUR INCHES) SHALL BE PROVIDED AT THE EDGE OF THE SIDEWALK AND RAMP.
2. CONCRETE TO BE SAWCUT OR PLACE A TOOL JOINT AT THE CENTER OF DRIVE AND SEALED. IF POSSIBLE CONTRACTOR SHALL TRY TO ALIGN THE JOINT AT THE CENTER OF THE DRIVE WITH THE A JOINT IN THE ADJACENT SIDEWALK.
3. ALL CONCRETE DRIVEWAYS AND SIDEWALKS SHALL BE CONSTRUCTED OF A PORTLAND CEMENT CONCRETE MIXTURE WHICH WILL PRODUCE A CONCRETE OF A COMPRESSIVE STRENGTH OF 3500 P.S.I. AFTER 28 DAYS SET UNDER STANDARD LABORATORY METHODS.
4. ALL SIDEWALKS REQUIRE A CONCRETE CURING COMPOUND, SUCH AS SEALTIGHT 1600-WHITE MANUFACTURED BY W.R. MEADOWS, OR AN APPROVED EQUAL.
5. ALL SIDEWALKS AND DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH A BROOM FINISH.

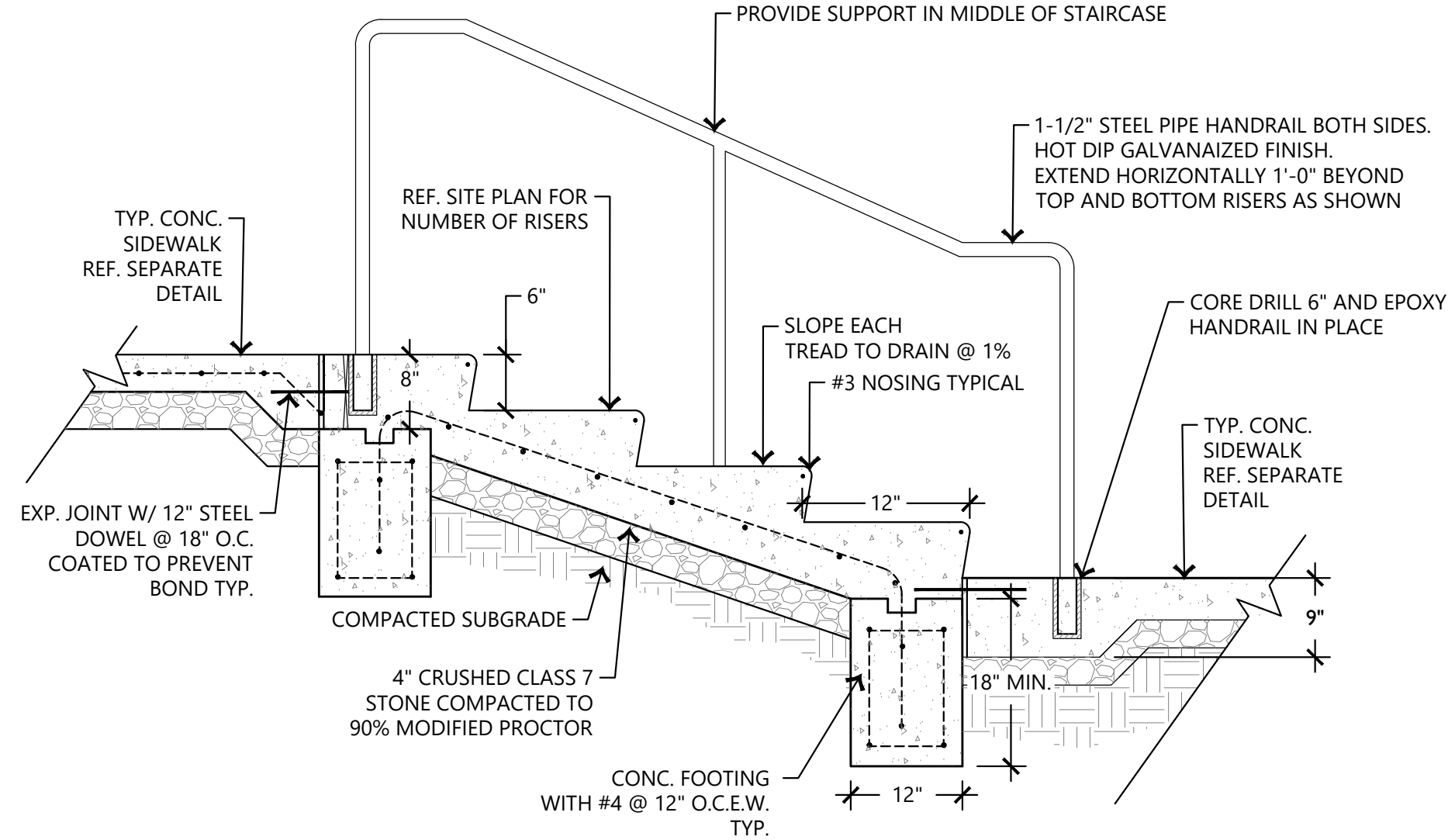


DETECABLE WARNING PAVES NOTES:

1. THE DETECABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS LOCATED AT THE BACK OF CURB.
2. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
3. DETECABLE WARNING DEVICE SHALL BE 24" IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. (MIN. 4')
4. INSTALL ADA PAVERS PER MANUFACTURER'S RECOMMENDATIONS.

1 ADA RAMP & DETECABLE WARNING PAVERS

SCALE: N.T.S.



2 TYPICAL CONCRETE STAIRCASE W/ HANDRAIL

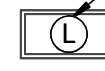






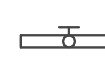





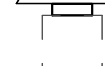



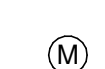
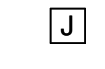
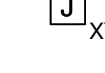


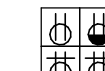


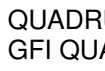



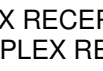


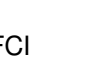
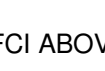



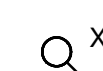

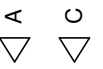


SCALE: N.T.S.



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POWER AND LIGHTING LEGEND									
ABBREVIATION OR SYMBOL		DESCRIPTION		GENERAL NOTES					
<div>FIXTURE DESIGNATION</div> <div> 2x4 LAY-IN OR SURFACE MOUNTED FIXTURE</div> <div> 2x4 LAY-IN OR SURFACE MOUNTED FIXTURE; SHADING INDICATES EMERGENCY POWERED BATTERY</div> <div> 2x2 LAY-IN OR SURFACE MOUNTED FIXTURE</div> <div> 2x2 LAY-IN OR SURFACE MOUNTED FIXTURE; SHADING INDICATES EMERGENCY POWERED BATTERY</div> <div> SURFACE OR STRIP FIXTURE</div> <div> RECESSED STRIP FIXTURE; SHADING INDICATES EMERGENCY POWERED BATTERY</div> <div> RECESSED DOWNLIGHT</div> <div> RECESSED DOWNLIGHT; SHADING INDICATES EMERGENCY POWERED BATTERY</div> <div> WALL-MOUNTED LINEAR FIXTURE</div> <div> DOWNLIGHT FIXTURE</div> <div> DOWNLIGHT FIXTURE. SHADING INDICATES EMERGENCY POWERED BATTERY</div> <div> WALL-MOUNTED FIXTURE</div> <div> EXIT SIGN; LED TYPE. DARKENED AREA INDICATES FACE, ARROWS INDICATE DIRECTION OF EGRESS</div> <div> RECESSED ELECTRICAL PANEL WITH REQUIRED CLEARANCE</div> <div> SURFACE MOUNTED ELECTRICAL PANEL WITH REQUIRED CLEARANCE</div> <div> COMBINATION STARTER DISCONNECT SWITCH</div> <div> NON FUSED DISCONNECT SWITCH</div> <div> FUSED DISCONNECT SWITCH</div> <div> MOTOR STARTER</div> <div> ELECTRIC MOTOR, HORSEPOWER AS SHOWN.</div> <div> JUNCTION BOX</div> <div> SPECIALTY JUNCTION BOX WITH DESIGNATION "XYZ". REFER TO JBOX ABBREVIATION LEGEND.</div>		<div>FLOOR BOXES</div> <div>FLOOR/WALL BOX WITH DESIGNATION "XYZ". REFER TO FLOOR/WALL BOX ABBREVIATION SCHEDULE.</div> <div><div><div> (1)</div><div> (2)</div><div> (3)</div><div> (4)</div></div><div><div> (6)</div><div> (7)</div><div> (8)</div><div> (9)</div></div></div> <div>(1) DUPLEX RECEPTACLE (2) GFI DUPLEX RECEPTACLE (3) QUADRUPLUX RECEPTACLE (4) GFI QUADRUPLUX RECEPTACLE</div> <div>(6) TELEPHONE OUTLET (7) DATA OUTLET (8) COMBO TELE/DATA OUTLET (9) AUDIO VISUAL</div> <div>XYZ</div> <div>POWER -- FLOOR/WALL BOX ABBREVIATION SCHEDULE</div> <div><div>DUPLEX</div><div>QUADRUPLUX</div><div><div> STANDARD</div><div> ABOVE COUNTER</div><div> GFCI</div><div> GFCI ABOVE COUNTER</div><div> WEATHER PROOF</div><div> CEILING MOUNT</div></div><div>ABC</div><div>XYZ</div><div>MULTI POLE RECEPTACLE. REFER TO RECEPTACLE ABBREVIATION LEGEND FOR DETAILS.</div><div>SIMPLEX RECEPTACLE. REFER TO RECEPTACLE ABBREVIATION LEGEND FOR DETAILS.</div><div>SPECIALTY RECEPTACLES WITH DESIGNATION "XYZ". "ABC", etc. REFER TO RECEPTACLE ABBREVIATION LEGEND BELOW.</div><div>POWER -- RECEPTACLE ABBREVIATION LEGEND</div><div>RP/72" DEDICATED GFI RECEPTACLE FOR RECIRC PUMP APPROX. 72" AFF. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR</div><div>TV/60" DEDICATED RECEPTACLE FOR TV 60" AFF</div><div>TV/72" DEDICATED RECEPTACLE FOR TV 72" AFF</div><div>TV/84" DEDICATED RECEPTACLE FOR TV 84" AFF</div><div>ROOM CONTROLLERS / POWER PACKS</div><div>P^{xx} SPECIALTY POWER PACK WITH DESIGNATION "XX". REFER TO ABBREVIATION LEGEND BELOW.</div><div>R^{xx} SPECIALTY ROOM CONTROLLER WITH DESIGNATION "XX". REFER TO ABBREVIATION LEGEND BELOW.</div><div>LIGHTING -- ROOM CONTROLLER ABBREVIATION SCHEDULE</div><div>WC WATTSTOPPER LMRC-211: SINGLE RELAY 0-10V DIMMING ROOM CONTROLLER. PROVIDE 0-10V CABLING TO EACH FIXTURE CONNECTED TO DIMMING ROOM CONTROLLER.</div><div>WD WATTSTOPPER LMRC-212: DUAL RELAY 0-10V DIMMING ROOM CONTROLLER. PROVIDE 0-10V CABLING TO EACH FIXTURE CONNECTED TO DIMMING ROOM CONTROLLER.</div></div>		<div>SWITCHES</div> <div>S SINGLE POLE LIGHT SWITCH</div> <div>S_M PADLOCKABLE HP RATED SWITCH</div> <div>S_X SPECIALTY SWITCH. FOR "X" DESIGNATION. SEE LIGHTING SWITCH ABBREVIATION SCHEDULE BELOW.</div> <div>LIGHTING -- SWITCH ABBREVIATION SCHEDULE</div> <div>WA LMSW-101: SINGLE BUTTON DIGITAL WALL SWITCH</div> <div>WB WATTSTOPPER LMSW-102: TWO BUTTON DIGITAL WALL SWITCH</div> <div>WF WATTSTOPPER LMDM-101: DIMMING DIGITAL WALL SWITCH</div> <div>WJ WATTSTOPPER PW-301: PASSIVE INFRARED WALL OCCUPANCY SENSOR SWITCH</div> <div>ELECTRICAL GENERAL NOTES</div> <div>1. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL LOCAL CODES, AUTHORITIES HAVING JURISDICTION, DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES ARE FOUND - THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK. REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.</div> <div>2. REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.</div> <div>3. PRIOR TO BID, CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.</div> <div>4. THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIED REFERENCE PRODUCTS. THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.</div> <div>5. REFER TO ELECTRICAL SCHEDULES AND SPECIFICATIONS FOR BASIS OF DESIGN, ACCEPTABLE MANUFACTURERS, AND MODELS OF ELECTRICAL FIXTURES AND EQUIPMENT.</div> <div>6. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, DEVICE, OPTION, FITTING, OR COMPONENT.</div> <div>7. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.</div> <div>8. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.</div> <div>9. ALL ELECTRICAL CONDUIT SHALL BE ¾" OR GREATER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ALL CONSTRUCTION DOCUMENTS FOR COMPLETE INFORMATION PRIOR TO BID.</div> <div>10. NO ELECTRICAL SYSTEMS SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.</div> <div>11. CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS AIR AND WATER TIGHT.</div> <div>12. CLOSELY COORDINATE FINAL LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY FOR MAINTENANCE.</div> <div>13. CONTRACTOR SHALL VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO CONDUIT OR ELECTRICAL EQUIPMENT FABRICATION. SYSTEMS SHALL BE ERECTED USING FIELD MEASUREMENTS FOR COORDINATION WITH THE EXISTING EQUIPMENT, STRUCTURE, FIRE PROTECTION AND ELECTRICAL.</div> <div>14. ALL EQUIPMENT, DEVICES, AND FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.</div> <div>15. EXPOSED CONDUIT AND MC CABLE SHALL BE FURNISHED SUITABLE FOR PAINTING, AND SHALL BE PAINTED AS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.</div> <div>16. PROVIDE ALL FITTINGS, COUPLINGS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROVIDE FOR PROPER OPERATION OF ELECTRICAL FIXTURES AND ELECTRICAL EQUIPMENT.</div> <div>17. REFER TO ELECTRICAL SPECIFICATIONS FOR CONDUIT MATERIALS AND INSTALLATION REQUIREMENTS.</div> <div>18. FIRE STOP ALL CONDUIT PENETRATIONS THROUGH RATED WALLS. REFER TO SPECIFICATIONS.</div> <div>19. REFER TO ARCHITECTURAL PLANS FOR CEILING GRILL AND LIGHT FIXTURE LOCATIONS, FOR CEILING TYPE, AND FOR MOUNTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL LIGHTS WITH MOUNTING DESIGNED FOR MOUNTING SURFACE TYPE.</div> <div>20. PROVIDE CONCRETE PADS FOR ALL GROUND MOUNTED EQUIPMENT. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.</div> <div>21. CONTRACTOR SHALL PATCH ALL WALLS, FLOORS, AND CEILINGS TO MATCH NEW/EXISTING FOR OPENINGS CREATED BY INSTALLATION OF EQUIPMENT AND ELECTRICAL SERVICE PENETRATIONS.</div> <div>22. ALL HVAC WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, HVAC FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.</div> <div>23. REFER TO STRUCTURAL ENGINEERING CONTRACT FOR PROJECT SEISMIC DESIGN CRITERIA. PROVIDE VIBRATION ISOLATION AND SEISMIC RESTRAINT FOR EQUIPMENT AND CONDUIT AS REQUIRED.</div>		<div>SENSORS</div> <div> SPECIALTY CEILING MOUNT SENSOR WITH DESIGNATION "XX", REFER TO ABBREVIATION LEGEND BELOW.</div> <div> SPECIALTY CORNER MOUNT SENSOR WITH DESIGNATION "XX", REFER TO ABBREVIATION LEGEND BELOW.</div> <div>LIGHTING -- SENSOR ABBREVIATION SCHEDULE</div> <div>DT DIGITAL DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR</div> <div>DT DIGITAL DUAL TECHNOLOGY CORNER MOUNT OCCUPANCY SENSOR</div> <div>COMMUNICATIONS DEVICES</div> <div>I INTERCOM STATION</div> <div>M I MASTER INTERCOM STATION</div> <div>C CLOCK</div> <div>D C CLOCK, DUAL SIDED</div> <div>WG C CLOCK, WITH WIREGUARD</div> <div>H HORN SPEAKER</div> <div>WP H HORN SPEAKER - WEATHERPROOF</div> <div>P PAGING SPEAKER</div> <div>C CAMERA WITH PAN, TILT, & ZOOM</div> <div>WP C CAMERA - WEATHERPROOF WITH PAN, TILT, & ZOOM</div> <div>V J A J SPECIAL SYSTEMS JUNCTION BOX ABOVE CEILING. ROUTE 1" C WITH PULL STRING TO DATA/ELECTRICAL ROOM. (V) VIDEO, (A) ALARM/ACCESS</div> <div>A ACCESS CONTROL - PROVIDE ACCESS CONTROL ROUGH-IN AT DOOR. REFER TO DETAILS FOR ACCESS CONTROL ROUGH-IN REQUIREMENTS.</div> <div>D D MAGNETIC DOOR HOLDER</div> <div>F F FIRE ALARM PULL STATION</div> <div>F A FIRE ALARM COMBINATION HORN/STROBE DEVICE</div> <div>S S FIRE ALARM COMBINATION SPEAKER/STROBE DEVICE</div> <div>F A FIRE ALARM STROBE DEVICE</div> <div>Z C Z M Z FIRE ALARM ZAM DEVICE: IAM (I), CONTROL (C), OR MONITOR MODULE (M)</div> <div>S S SMOKE DETECTOR</div> <div>H H HEAT DETECTOR</div> <div>D S DUCT SMOKE DETECTOR</div> <div>DA S DUCT SMOKE DETECTOR WITH AUXILIARY CONTACTS</div> <div>TS FS TAMPER SWITCH / FLOW SWITCH</div> <div>ATS SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH</div> <div>M M MANHOLE, HANDHOLE DESIGNATION REFER TO SCHEDULE.</div>		<div>1. SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT BE UTILIZED ON THE PROJECTS.</div> <div>WIRE TYPES</div> <div>LIGHTING CONTROL CABLING</div> <div>EQUIPMENT AND CONDUIT LINE TYPES</div> <div>FURNISH + INSTALL NEW</div> <div>EXISTING</div> <div>DEMOLISH</div> <div>UNDERGROUND CONNECT TO EXISTING</div> <div>2 (3#8 + 1#8 + 1#10EG) 3/4" GRS</div> <div>CONDUIT TYPE (SEE ABBREVIATIONS) REFER TO SPECIFICATIONS IF NOT SHOWN</div> <div>CONDUIT SIZE</div> <div>GROUND (NEUTRAL) CONDUCTOR, NUMBER AND SIZE</div> <div>GROUND (NEUTRAL) CONDUCTOR, NUMBER AND SIZE</div> <div>PHASE (HOT) CONDUCTOR, NUMBER & SIZE</div> <div>NUMBER OF SETS</div> <div>XX - ## HOME RUN TO PANEL. LETTER(S) INDICATE NAME OF PANEL, NUMBER(S) INDICATE CIRCUIT NUMBERS.</div> <div>ONE LINE SYMBOLS</div> <div>CIRCUIT BREAKER, TRIP RATING SHOWN, 3-POLE UNLESS NOTED.</div> <div>FUSE, CURRENT LIMITING, RATING AS SHOWN.</div> <div>TRANSFORMER, RATINGS AS SHOWN.</div> <div>480V ** kVA 208V</div> <div>10 HP ELECTRIC MOTOR, HORSEPOWER SHOWN.</div> <div>MOTOR STARTER, SIZE AS SHOWN OR REQUIRED. FVNR UNLESS NOTED.</div> <div>SPD SURGE PROTECTION DEVICE.</div> <div>*KW GENERATOR</div> <div>GROUNDING ROD, 3/4" x 10' MINIMUM, COPPER CLAD.</div> <div>VARIABLE FREQUENCY DRIVE.</div> <div>ATS-1 200A / 3P /BP AUTOMATIC TRANSFER SWITCH</div>	
POWER -- J-BOX ABBREVIATION SCHEDULE		POWER -- J-BOX ABBREVIATION SCHEDULE							
PF	POWERED FURNITURE								
DATA DEVICES									
 A F	TELEPHONE OUTLET; ABOVE COUNTER, & FIREMAN'S								
 A C	DATA OUTLET; ABOVE COUNTER & CEILING MOUNTED								
 A	COMBINATION DATA/TELEPHONE OUTLET & COMBINATION DATA/TELEPHONE OUTLET ABOVE COUNTER								
 TV/84"	TELEVISION OUTLET WITH HEIGHT A.F.F. DESIGNATION								

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LEGEND

100% CONSTRUCTION DOCUMENTS

REVISIONS:

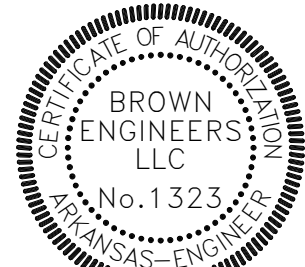
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ELECTRICAL POWER AND LIGHTING

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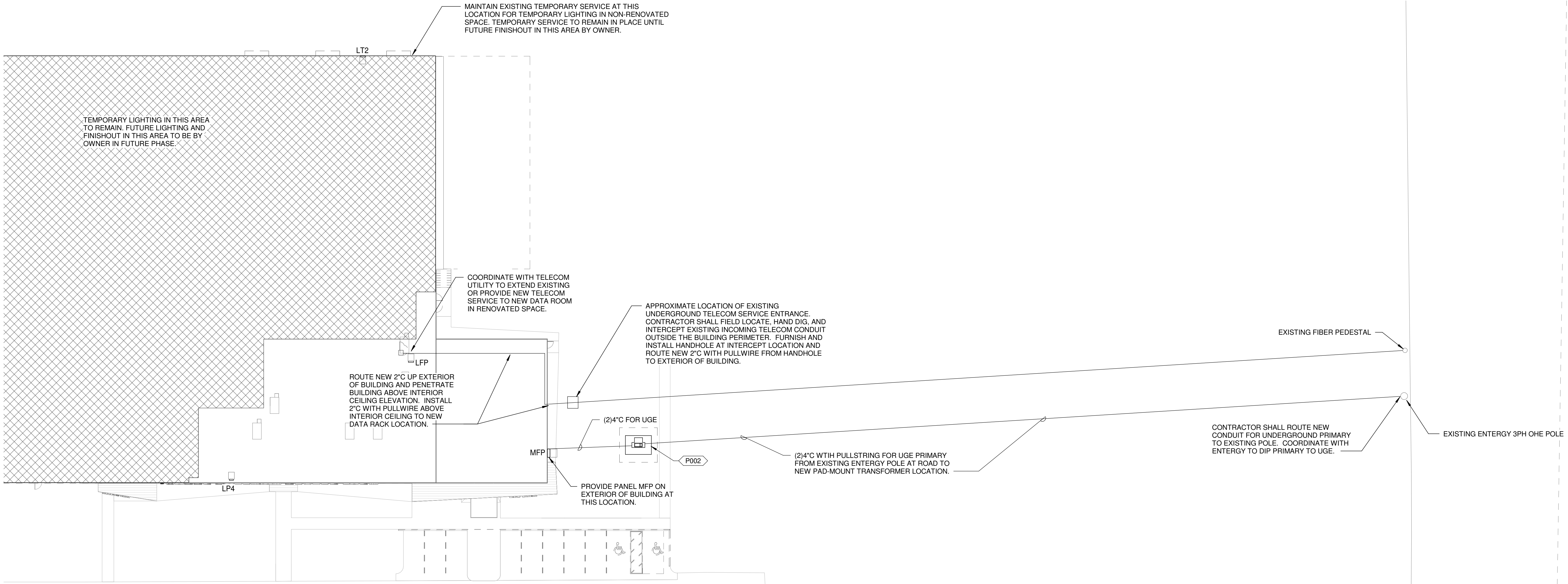
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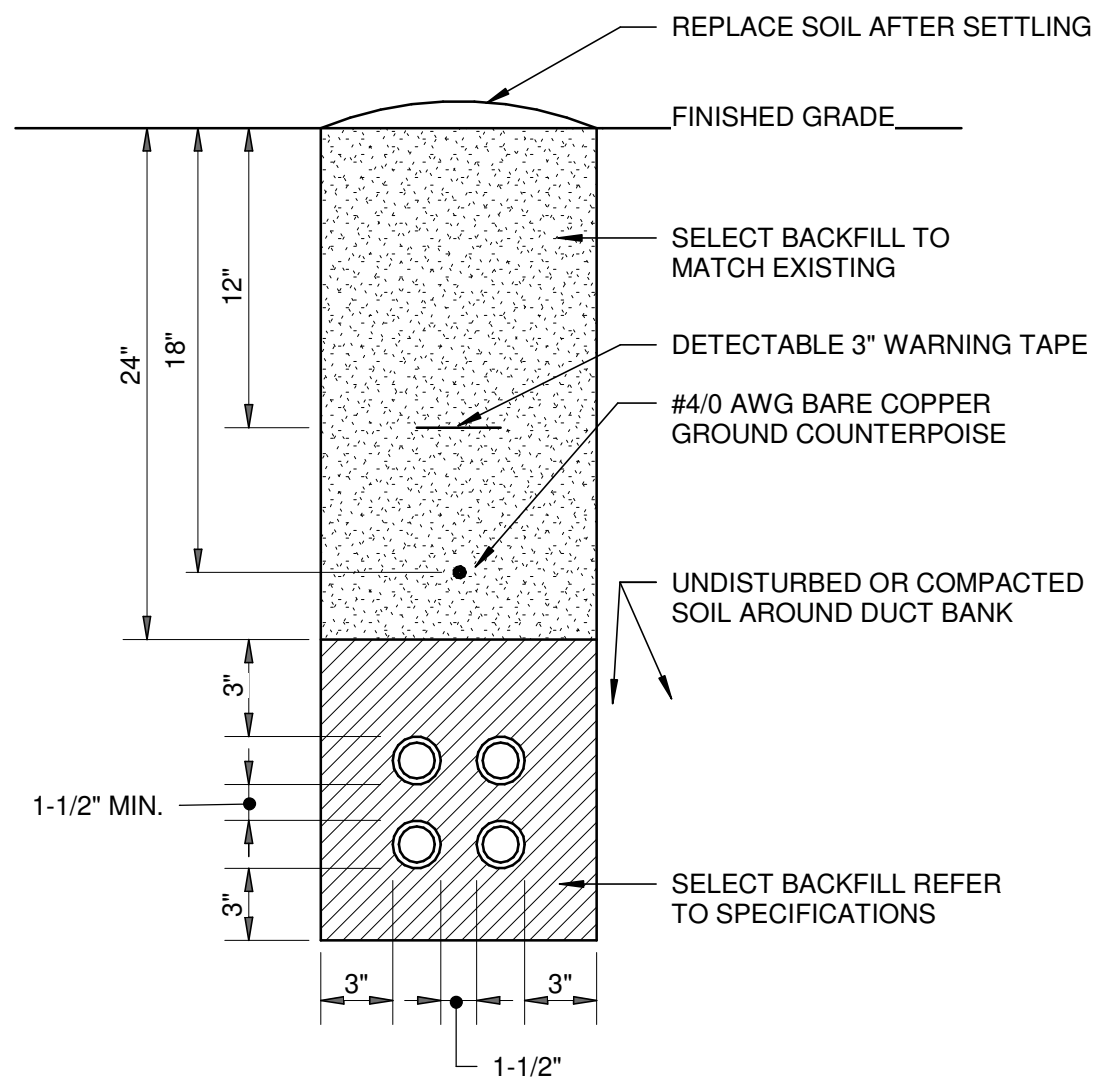
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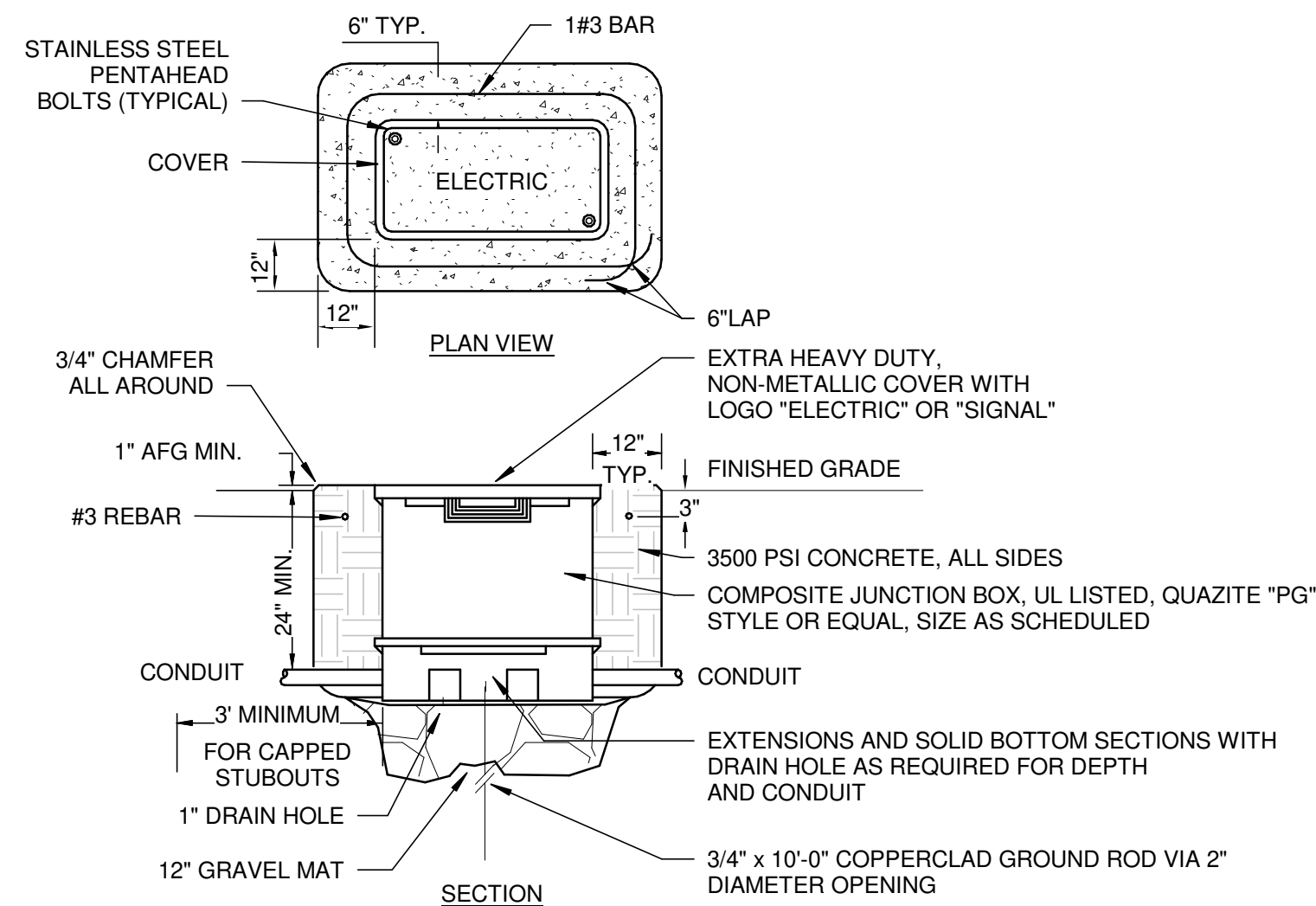
1 SITE PLAN
3/64" = 1'-0"
NORTH



2 TRENCH DETAIL
NOT TO SCALE

ELECTRICAL DUCT NOTES:

1. CONTRACTOR SHALL STAKE THE DUCT INSTALLATION IN PLAN AND ELEVATION FOR NEW ELECTRICAL DUCTS TO AVOID EXISTING UTILITIES.
2. CONTRACTOR SHALL ADJUST THE DEPTH OF THE ELECTRICAL DUCTS AS REQUIRED TO MAINTAIN THE MINIMUM COVER REQUIREMENT INDICATED AND AVOID EXISTING UTILITIES.
3. SIMILAR CONSTRUCTION FOR OTHER DUCT SIZES. SEE DUCT BANK SCHEDULE FOR QUANTITY AND SIZES.
4. INSTALL DUCT CONDUIT SUPPORTS AT 5'-0" O.C. MAXIMUM SPACING (TYPICAL ALL DUCTS).
5. OFFSETS AND BENDS OVER 10 DEGREES AND ELBOWS IN PVC CONDUIT RUNS SHALL BE GALVANIZED RIGID STEEL CONDUIT.
6. NO PVC SHALL EMERGE FROM THE GROUND OR CONCRETE SLAB OR ENCASEMENT. PVC SHALL CONVERT TO GALVANIZED RIGID STEEL CONDUIT PRIOR TO ITS EMERGENCE.
7. INSTALL GROUND RODS AT ENDS OF ELECTRICAL DUCT OR CONNECT TO GROUND RING.
8. INSTALL CONDUCTORS AND CABLES AS NOTED ON DRAWING. INSTALL PULLWIRE IN ALL SPARE DUCTS.
9. MINIMUM COVER REQUIREMENT FOR DUCT BANKS UNDER ROADS, DRIVEWAYS AND PARKING LOTS SHALL BE 24".
10. MINIMUM COVER REQUIREMENTS FOR ELECTRICAL SECONDARY SERVICE DUCT BANKS SHALL BE 30".
11. MINIMUM COVER REQUIREMENTS FOR ELECTRICAL PRIMARY SERVICE DUCT BANKS SHALL BE 36".

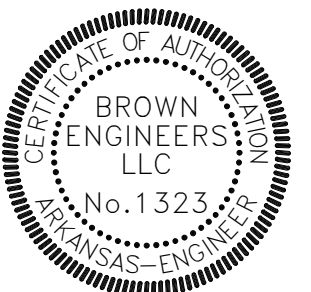


NOTES:

1. HANDHOLE AND EXTRA HEAVY-DUTY COVER SHALL BE DESIGNED FOR A TEST LOAD OF 33,750 LBS AND A DESIGN LOAD OF 22,500 LBS.
2. PROVIDE HANDHOLE WITH 2-2" STUBOUTS IN EACH FACE, CAPPED WATERTIGHT.
3. HANDHOLE INTERIOR DIMENSIONS SHALL BE 30"L x 17"W x 28"D.
4. PROVIDE MINIMUM 3' SLACK CABLE LOOP FOR EACH CABLE.
5. COLOR CODE, TAG AND IDENTIFY ALL CABLES IN HANDHOLE.
6. EXACT LOCATION OF EACH HANDHOLE SHALL BE APPROVED BY THE OWNER AND ENGINEER.

3 HANDHOLE DETAIL
NOT TO SCALE

KEYNOTES	
P002	COORDINATE FINAL UTILITY TRANSFORMER LOCATION WITH CIVIL SITE PLAN.



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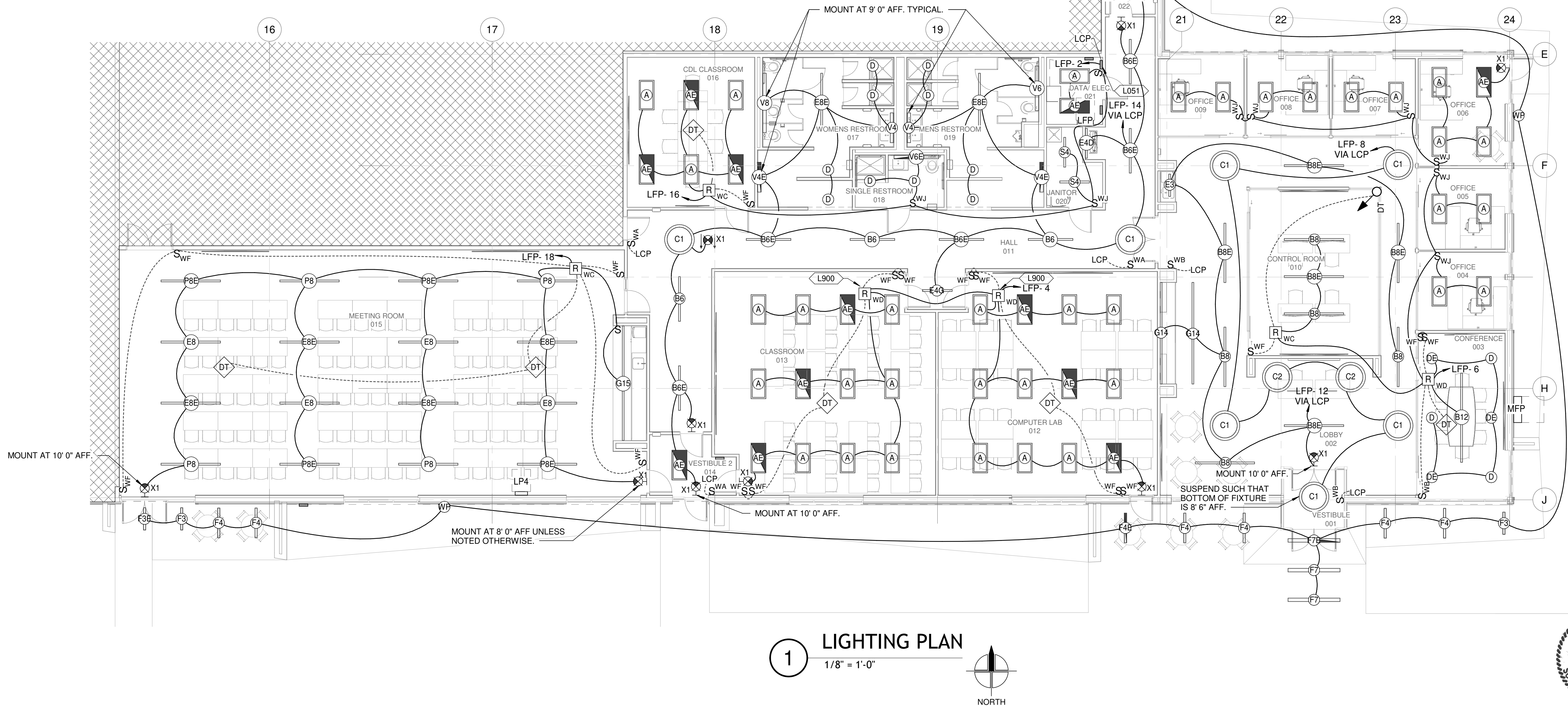
LIGHTING -- FIXTURE SCHEDULE					
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	ELECTRICAL REQUIREMENTS	
				WATTAGE	VOLTAGE
A	FLUXWERX	RA1-24-C-35-F2-M	RECESSED 2x4 TROFFER	36 W	120 V
AE	FLUXWERX	RA1-24-C-35-F2-M-B	RECESSED 2x4 TROFFER WITH BATTERY BACKUP	36 W	120 V
B6	FLUXWERX	PM1-B-A-C-35-X-06-G-F2-M-03	6" SUSPENDED DIRECT/INDIRECT LINEAR	42 W	120 V
B6E	FLUXWERX	PM1-B-A-C-35-X-06-G-F2-M-03-B1	6" SUSPENDED DIRECT/INDIRECT LINEAR WITH BATTERY BACKUP	42 W	120 V
B8	FLUXWERX	PM1-B-A-C-35-X-08-S-F2-M-06	8" SUSPENDED DIRECT/INDIRECT LINEAR	56 W	120 V
B8E	FLUXWERX	PM1-B-A-C-35-X-08-S-F2-M-06-B1	8" SUSPENDED DIRECT/INDIRECT LINEAR WITH BATTERY BACKUP	56 W	120 V
B12	FLUXWERX	PM1-B-A-C-35-X-12-G-F2-M-03	12" SUSPENDED DIRECT/INDIRECT LINEAR	84 W	120 V
C1	OCL	GL1-P1DA-48-MW-MWP-LED2-35K-UNV-100-DM1	48" PENDANT MOUNTED GLOWRING	115 W	120 V
C2	OCL	GL1-C1NA-48-MW-MWP-LED2-35K-UNV-DM1	48" SURFACE MOUNT GLOWRING	115 W	120 V
D	ALPHABET	NU4-RDDR-SW-20LM-35K-90-50D-HET-WH-WH-NC-UNV-DIM10	RECESSED DOWNLIGHT	17 W	120 V
DE	ALPHABET	NU4-RDDR-SW-20LM-35K-90-50D-HET-WH-WH-NC-UNV-DIM10-EM7	RECESSED DOWNLIGHT WITH BATTERY BACKUP	17 W	120 V
E3	FLUXWERX	NT1-L-G1-B-C-35-F2-M-3	3' 0" RECESSED LINEAR	24 W	120 V
E4D	FLUXWERX	NT1-L-DX-B-C-35-F2-M-4	4' 0" RECESSED LINEAR	29 W	120 V
E4G	FLUXWERX	NT1-L-G1-B-C-35-F2-M-4	4' 0" RECESSED LINEAR	29 W	120 V
E8	FLUXWERX	NT1-L-G1-B-D-35-F2-M-8	8' RECESSED LINEAR	58 W	120 V
E8E	FLUXWERX	NT1-L-G1-B-D-35-F2-M-8-B1	8' RECESSED LINEAR WITH BATTERY BACKUP	76 W	120 V
F3	PINNACLE	EX3WET-N-835-3'0"-IND-S-U-FSD-1-0-CBA	3' SURFACE MOUNTED WET RATED LINEAR	14 W	120 V
F3E	PINNACLE	EX3WET-N-835-3'0"-IND-S-U-FSD-1-1ILL-CBA	3' SURFACE MOUNTED WET RATED LINEAR WITH BATTERY BACKUP	14 W	120 V
F4	PINNACLE	EX3WET-N-835-4'0"-IND-S-U-FSD-1-0-CBA	4' SURFACE MOUNTED WET RATED LINEAR	19 W	120 V
F4E	PINNACLE	EX3WET-N-835-4'0"-IND-S-U-FSD-1-1ILL-CBA	4' SURFACE MOUNTED WET RATED LINEAR WITH BATTERY BACKUP	19 W	120 V
F7	PINNACLE	EX3WET-N-835-7'0"-IND-S-U-FSD-1-0-CBA	7' SURFACE MOUNTED WET RATED LINEAR	33 W	120 V
F7E	PINNACLE	EX3WET-N-835-7'0"-IND-S-U-FSD-1-1ILL-CBA	7' SURFACE MOUNTED WET RATED LINEAR WITH BATTERY BACKUP	33 W	120 V
G14	XICO	PBE2-RP-M1-13' 8" MW-H-OFL-S80-35-DLAM-35-UNV-FD10-NN-NN-RCWH5-S24WH	13' 8" RECESSED LINEAR	154 W	120 V
G15	XICO	PBE2-RP-M1-15' 5" MW-H-OFL-S80-35-DLAM-35-UNV-FD10-NN-NN-RCWH5-S24WH	15' 5" RECESSED LINEAR	176 W	120 V
P8	FLUXWERX	PM1-X-B-C-35-X-08-S-F2-M-12	8" SUSPENDED DIRECT LINEAR	56 W	120 V
P8E	FLUXWERX	PM1-X-B-C-35-X-08-S-F2-M-12-B1	8" SUSPENDED DIRECT LINEAR WITH BATTERY BACKUP	56 W	120 V
S4	NORA	NLSTR-4L1334W / NLSTRA-PK	4' LINEAR STRIP	24 W	120 V
V4	PINNACLE	EX3D-WHE-N-835-4'0"-WA-U-FSD-1-0-CBA	4' WALL MOUNTED LINEAR	18 W	120 V
V4E	PINNACLE	EX3D-WHE-N-835-4'0"-WA-U-FSD-1-1PLL-CBA	4' WALL MOUNTED LINEAR WITH BATTERY BACKUP	18 W	120 V
V6	PINNACLE	EX3D-WHE-N-835-6'0"-WA-U-FSD-1-0-CBA	6' WALL MOUNTED LINEAR	27 W	120 V
V6E	PINNACLE	EX3D-WHE-N-835-6'0"-WA-U-FSD-1-1PLL-CBA	6' WALL MOUNTED LINEAR WITH BATTERY BACKUP	27 W	120 V
V8	PINNACLE	EX3D-WHE-N-835-8'0"-WA-U-FSD-1-0-CBA	8' WALL MOUNTED LINEAR	36 W	120 V
WP	NLS LIGHTING	NV-W-T3-16L-7-35K8-UNV-WM-CBA-EM8	EXTERIOR RATED WALL PACK WITH BATTERY BACKUP	37 W	120 V
X1	EVENLITE	SOVIE-EM-R-XX-WH-SU-UC	UNIVERSAL EXITS - SELF POWERED	3 W	120 V

LIGHTING NOTES:

- FURNISH AND INSTALL UNSWITCHED CIRCUIT TO ALL EXIT, EMERGENCY, AND EMERGENCY EGRESS LIGHTING FIXTURES. COORDINATE WITH OWNER FOR TIME SETTINGS OF ALL OCCUPANCY SENSING DEVICES. OCCUPANCY SENSORS IN RESTROOMS AND/OR SHOWER ROOMS SHALL BE SET TO MAXIMUM TIME DELAY.
- SINGLE BUTTON LOW VOLTAGE SWITCHES IN CORRIDORS/LOBBIES SHALL OVERRIDE LCP NORMAL SCHEDULING IN THE AREA THEY ARE PRESENT. PROVIDE MULTI-GANG BOX WHERE MULTIPLE SWITCHES ARE SHOWN ADJACENT TO EACH OTHER.
- WHERE MULTIPLE SWITCHES ARE SHOWN IN ONE ROOM/AREA FOR ONE ZONE, SWITCHES SHALL BE CONFIGURED TO CONTROL THE SINGLE ZONE FROM MULTIPLE LOCATIONS.

KEYNOTES

- L051 FURNISH AND INSTALL "WATTSTOPPER LMCP SERIES" LIGHTING CONTROL PANEL. PROVIDE WITH PHOTOCELL AND TIMECLOCK FOR AUTOMATIC CONTROL. REFERENCE LIGHTING CONTROL NOTES AND COORDINATE WITH OWNER FOR FINAL PROGRAMMING.
- L900 FIXTURES AT TEACHING WALL SHALL BE SWITCHED AND DIMMED SEPARATELY THAN REST OF ROOM.

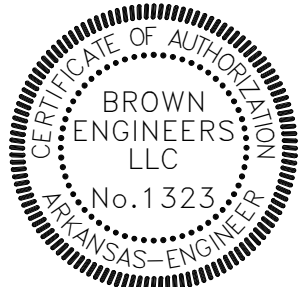


1 LIGHTING PLAN
1/8" = 1'-0"



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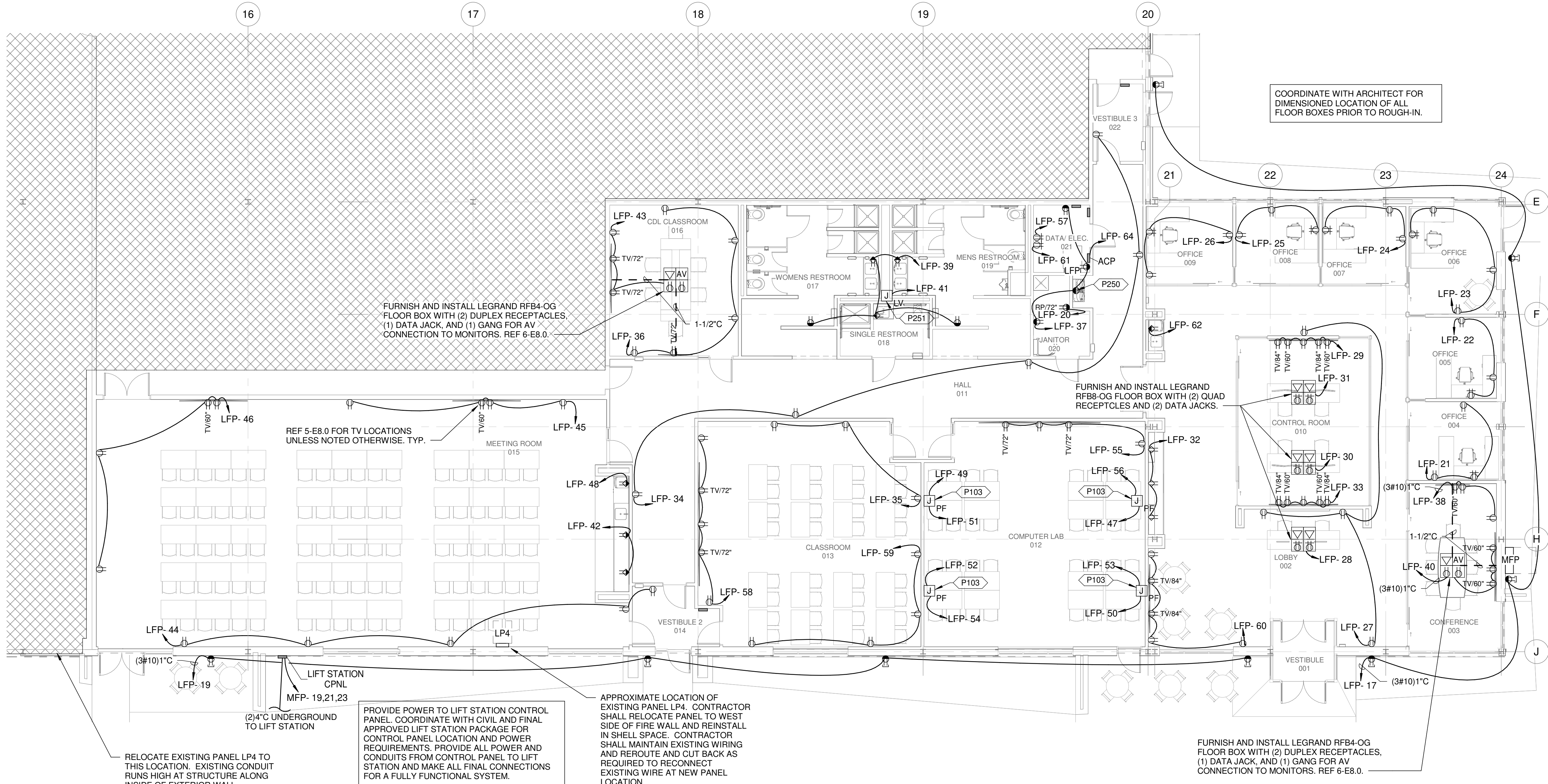
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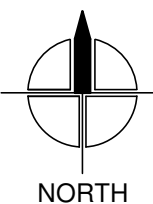
KEYNOTES

- P103 RECEPTACLES FURNISHED WITH FURNITURE WILL HAVE PRE-MANUFACTURED FLEXIBLE METAL CONDUITS TO JUNCTION BOX. CONTRACTOR SHALL ROUTE POWER FROM PANEL AS INDICATED TO JUNCTION BOX AT WALL AND MAKE CONNECTIONS TO FURNITURE WHIP FOR A COMPLETE INSTALLATION. COORDINATE WITH EQUIPMENT VENDOR FOR JUNCTION BOX INSTALLATION LOCATION.
- P250 ELECTRIC WATER COOLER RECEPTACLE: CONCEAL WITHIN CABINET PER MANUFACTURER'S REQUIREMENTS.
- P251 PROVIDE 120V CONNECTION TO POWER CONVERTER FOR HARDWIRED AUTOMATIC SENSOR-CONTROLLED PLUMBING FIXTURES IN RESTROOMS. HARDWIRE POWER FROM CONVERTER TO URINAL, WATER CLOSETS, AND LAVATORIES. MAKE ALL FINAL CONNECTIONS.

COORDINATE WITH ARCHITECT FOR DIMENSIONED LOCATION OF ALL FLOOR BOXES PRIOR TO ROUGH-IN.



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



RELOCATE EXISTING PANEL LP4 TO THIS LOCATION. EXISTING CONDUIT RUNS HIGH AT STRUCTURE ALONG INSIDE OF EXTERIOR WALL. REROUTE CONDUIT TO RUN DOWN WALL TO PANEL LOCATION. REROUTE EXISTING PANEL FEEDER AND CUTBACK AS NEEDED TO TERMINATE AT NEW PANEL LOCATION.

PROVIDE POWER TO LIFT STATION CONTROL PANEL. COORDINATE WITH CIVIL AND FINAL APPROVED LIFT STATION PACKAGE FOR CONTROL PANEL LOCATION AND POWER REQUIREMENTS. PROVIDE ALL POWER AND CONDUITS FROM CONTROL PANEL TO LIFT STATION AND MAKE ALL FINAL CONNECTIONS FOR A FULLY FUNCTIONAL SYSTEM.

APPROXIMATE LOCATION OF EXISTING PANEL LP4. CONTRACTOR SHALL RELOCATE PANEL TO WEST SIDE OF FIRE WALL AND REINSTALL IN SHELL SPACE. CONTRACTOR SHALL MAINTAIN EXISTING WIRING AND REROUTE AND CUT BACK AS REQUIRED TO RECONNECT EXISTING WIRE AT NEW PANEL LOCATION.

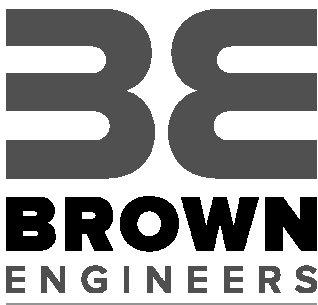
FURNISH AND INSTALL LEGRAND RFB4-OG FLOOR BOX WITH (2) DUPLEX RECEPTACLES, (1) DATA JACK, AND (1) GANG FOR AV CONNECTION TO MONITORS. REF 6-E8.0.

FURNISH AND INSTALL LEGRAND RFB4-OG FLOOR BOX WITH (2) DUPLEX RECEPTACLES, (1) DATA JACK, AND (1) GANG FOR AV CONNECTION TO MONITORS. REF 6-E8.0.

FURNISH AND INSTALL LEGRAND RFB8-OG FLOOR BOX WITH (2) QUAD RECEPTACLES AND (2) DATA JACKS.

REF 5-E8.0 FOR TV LOCATIONS UNLESS NOTED OTHERWISE. TYP.

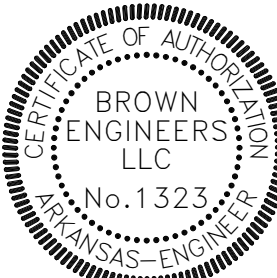
(2)4" UNDERGROUND TO LIFT STATION

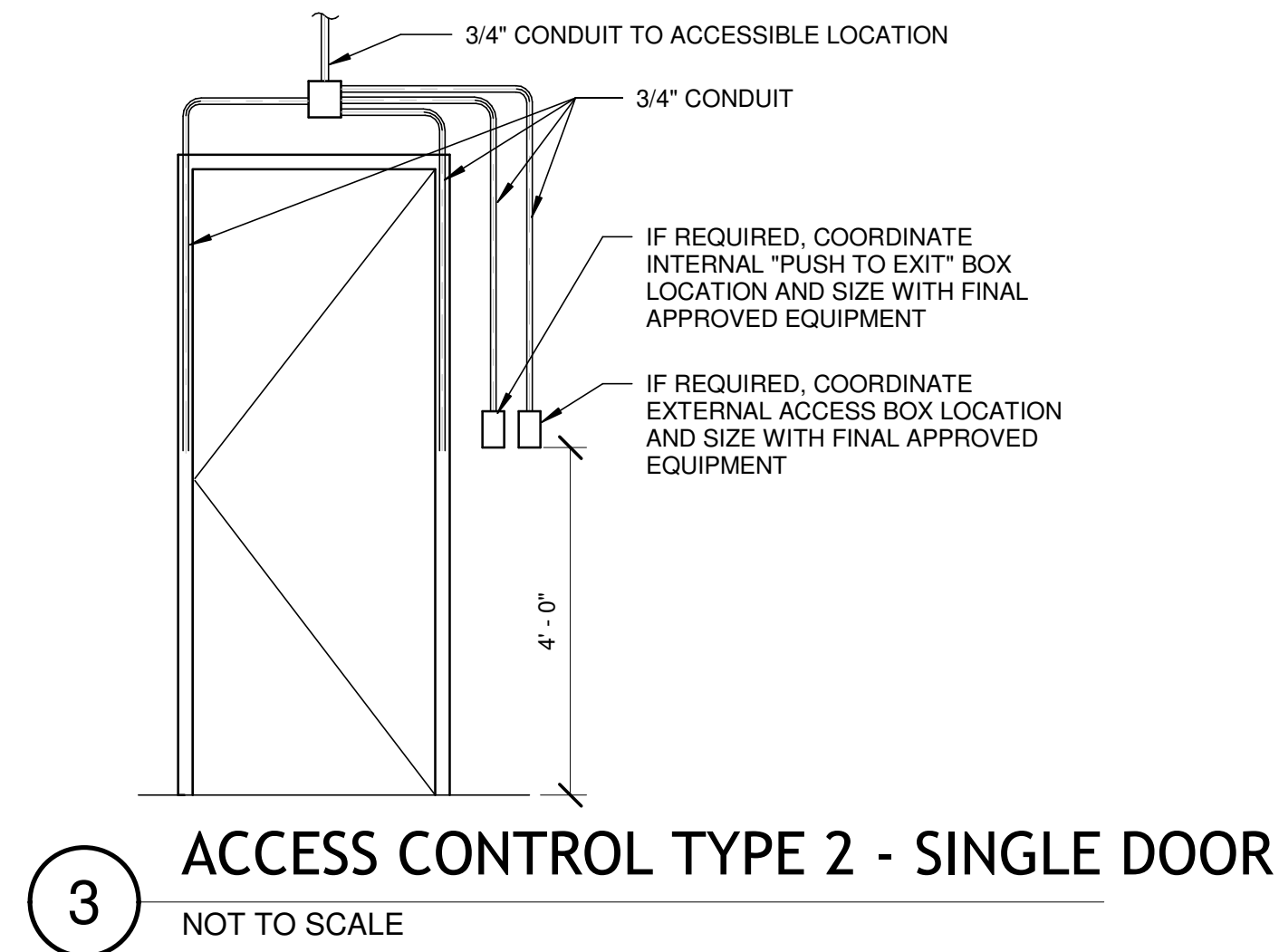


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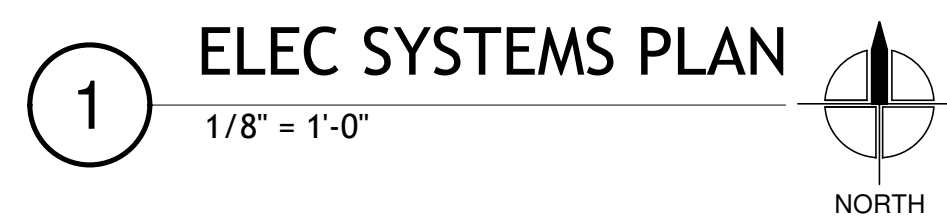
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P300	FURNISH AND INSTALL 4'X4' PLYWOOD TELEPHONE BACKBOARD. REFERENCE TELEPHONE AND DATA RISER DIAGRAM.
P302	FURNISH AND INSTALL WALL MOUNTED DATA RACK IN AV/IT ROOM. RACK SHALL BE 19.86"W X 18"D X 22.25"H. RACK SHALL BE DAMAC WR24S-3 OR EQUAL.



Branch Panel: MFP

Location:

Supply From:

Mounting: Surface

Enclosure: NEMA 3R

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 22kA

Panel Rating: 800 A

MCB

Notes:

CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	AHU -01	90 A	3	10.06			16.49			3	225 A	LFP	2
3					10.06			17.16					4
5						10.06			17.55				
7	AHU -05	175 A	3	16.33			9.79			3	90 A	AHU -02	8
9					16.33			9.79					10
11						16.33			9.79				
13	AHU -03	90 A	3	8.41			8.41			3	90 A	AHU -04	14
15					8.41			8.41					16
17						8.41			8.41				
19	LIFT STATION CPNL AND PUMP	70 A	3	2.35			2.78			2	30 A	DSCU -01	20
21					2.35			2.78					22
23						2.35			0.00				
25	SPARE	90 A	3	0.00			0.00			2	30 A	SPARE	26
27					0.00			0.00					28
29						0.00			0.00				

- PANELBOARD NOTES
- (1)

INSTALL LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE)
- (2)

INSTALL LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).
- (3)

REFER TO SITE LIGHTING PLAN FOR WIRE SIZES.
- (4)

PROVIDE GFI CIRCUIT BREAKER OR INLINE GFI FOR PERSONNEL PROTECTION (5 mA).
- (5)

PROVIDE GFI CIRCUIT BREAKER OR INLINE GFI FOR EQUIPMENT PROTECTION (30 mA).
- (6)

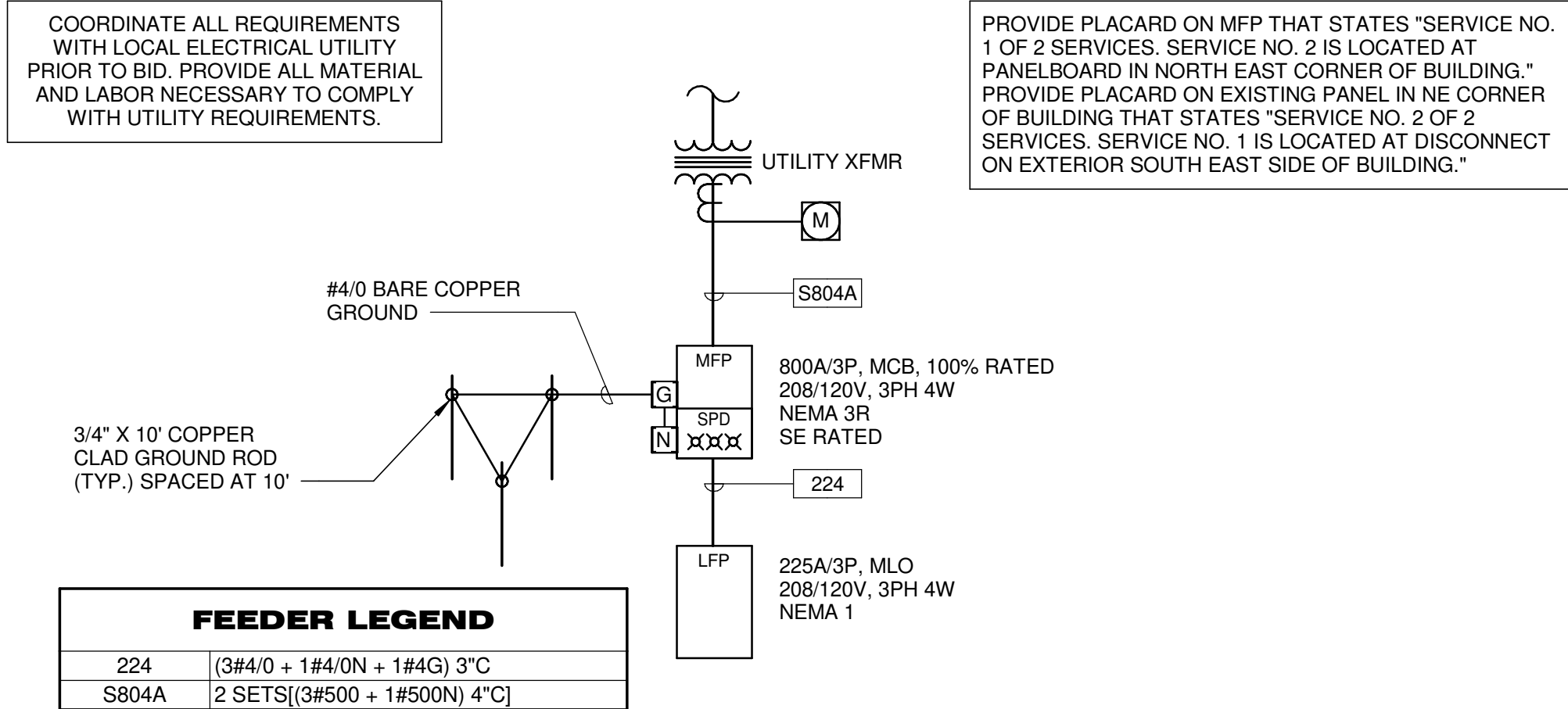
PROVIDE U.L. LISTED OVERCURRENT DEVICE TO COORDINATE AND MAINTAIN MANUFACTURER'S SERIES RATED SYSTEM.
- (7)

EXISTING CIRCUIT TO REMAIN.
- (8)

EXISTING CIRCUIT BREAKER TO REMAIN. VERIFY CONDITION OF CIRCUIT BREAKER TO ENSURE THAT IT IS OPERATIONAL AND MEETS ALL U.L. RATINGS.
- (9)

TRACE EXISTING CIRCUIT, IDENTIFY LOAD AND PROVIDE TYPEWRITTEN PANELBOARD SCHEDULE AND PLACE ON INTERIOR OF PANELBOARD DOOR. IF CIRCUIT IS A "SPARE", REFER TO NOTE (8).

Branch Panel: LFP													
Location: DATA/ ELEC. 021				Volts: 120/208 Wye				A.I.C. Rating: 22kA					
Supply From: MFP				Phases: 3				Panel Rating: 225 A MLO					
Mounting: Surface				Wires: 4									
Enclosure: 1													
Notes:													
CKT	Load Name	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Load Name	CKT
1	WH-1	50 A	3	4.10			0.06			1	20 A	LCP	2
3					4.10			0.86		1	20 A	LIGHTING CDL CLASSROOM 016	4
5						4.10			0.85		1	20 A	OFFICES, CONTROL ROOM LTG
7	FOR FUTURE USE AT GARDEN AREA (4)	20 A	1	0.00			0.81			1	20 A	LIGHTING LOBBY 002	8
9	FOR FUTURE USE AT GARDEN AREA (4)	20 A	1		0.00			0.38		1	20 A	EXTERIOR LIGHTING	10
11	FOR FUTURE USE AT GARDEN AREA (4)	20 A	1			0.00			0.72	1	20 A	LIGHTING LOBBY 002	12
13	FOR FUTURE USE AT GARDEN AREA (4)	20 A	1	0.00			1.45			1	20 A	LIGHTING VESTIBULE 2 014	14
15	FOR FUTURE USE AT GARDEN AREA (4)	20 A	1		0.00			0.61		1	20 A	LTG RM 15, 016, 17, 18, 19, 20, 21	16
17	EAST EXTERIOR RECEPTS	20 A	1			0.72			1.16	1	20 A	LIGHTING MEETING ROOM 015	18
19	WEST EXTERIOR RECEPTS	20 A	1	0.72			0.18			1	20 A	RECIRC PUMP	20
21	RECEPTACLES OFFICE 004	20 A	1		0.72			0.72		1	20 A	RECEPTACLES OFFICE 005	22
23	RECEPTACLES OFFICE 006	20 A	1			0.90			0.72	1	20 A	RECEPTACLES OFFICE 007	24
25	RECEPTACLES OFFICE 008	20 A	1	0.72			0.72			1	20 A	RECEPTACLES OFFICE 009	26
27	RECEPTACLES LOBBY 002	20 A	1		0.72			0.72		1	20 A	RECEPTACLES LOBBY 002	28
29	RECEPTACLES CONTROL ROOM 010	20 A	1			0.90			0.72	1	20 A	RECEPTACLES CONTROL ROOM 010	30
31	RECEPTACLES CONTROL ROOM 010	20 A	1	0.72			0.54			1	20 A	ABOVE COUNTER RECEPTS LOBBY 002	32
33	RECEPTACLES CONTROL ROOM 010	20 A	1		0.90			0.90		1	20 A	RECEPTACLES HALL 011	34
35	RECEPTACLES CLASSROOM 013	20 A	1			0.18			0.90	1	20 A	RECEPTACLES CDL CLASSROOM 016	36
37	GFI RECEPTS, EWC (4)	20 A	1	0.72			0.54			1	20 A	RECEPTACLES CONFERENCE 003	38
39	RESTROOMS RECEPTS	20 A	1		0.90			0.90		1	20 A	RECEPTACLES CONFERENCE 003	40
41	BATHROOM SENSORS	20 A	1			0.25			0.72	1	20 A	AC RECEPTS MEETING ROOM	42
43	RECEPTACLES CDL CLASSROOM 016	20 A	1	0.90			0.90			1	20 A	RECEPTACLES MEETING ROOM 015	44
45	RECEPTACLES MEETING ROOM 015	20 A	1		0.72			0.72		1	20 A	RECEPTACLES MEETING ROOM 015	46
47	POWERED FURNITURE COMP LAB 012	20 A	1			0.72			0.36	1	20 A	COFFEE MAKER MEETING ROOM 015	48
49	POWERED FURNITURE COMP LAB 012	20 A	1	0.72			0.72			1	20 A	POWERED FURNITURE COMP LAB 012	50
51	POWERED FURNITURE COMP LAB 012	20 A	1		0.72			0.72		1	20 A	POWERED FURNITURE COMP LAB 012	52
53	POWERED FURNITURE COMP LAB 012	20 A	1			0.72			0.72	1	20 A	POWERED FURNITURE COMP LAB 012	54
55	RECEPTACLES COMP LAB 012	20 A	1	0.72			0.72			1	20 A	POWERED FURNITURE COMP LAB 012	56
57	RECEPTACLES DATA/ ELEC. 021	20 A	1		0.36			0.90		1	20 A	RECEPTACLES CLASSROOM 013	58
59	RECEPTACLES CLASSROOM 013	20 A	1			0.72			0.90	1	20 A	RECEPTACLES LOBBY 002	60
61	RECEPTACLES DATA/ ELEC. 021	20 A	1	0.36			0.18			1	20 A	COFFEE MAKER LOBBY 002	62
63	HVAC CONVENIENCE RECEPTS	20 A	1		0.54			0.06		1	20 A	ACP	64
65	FACP (2)	20 A	1			0.06			0.50	1	20 A	UH- 01	66
67	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	68
69	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	70
71	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	72
73	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	74
75	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	76
77	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	78
79	SPARE	20 A	1	0.00			0.00			1	20 A	SPARE	80
81	SPARE	20 A	1		0.00			0.00		1	20 A	SPARE	82
83	SPARE	20 A	1			0.00			0.00	1	20 A	SPARE	84
Panel Totals													
				PHASE A		PHASE B		PHASE C					
Total Load:				16.49 kVA		17.16 kVA		17.55 kVA					
Total Amps:				137 A		144 A		147 A					
Total Conn. Load:				51.20 kVA									
Total Design Current:				223 A									
Notes:													



1

ONE LINE DIAGRAM

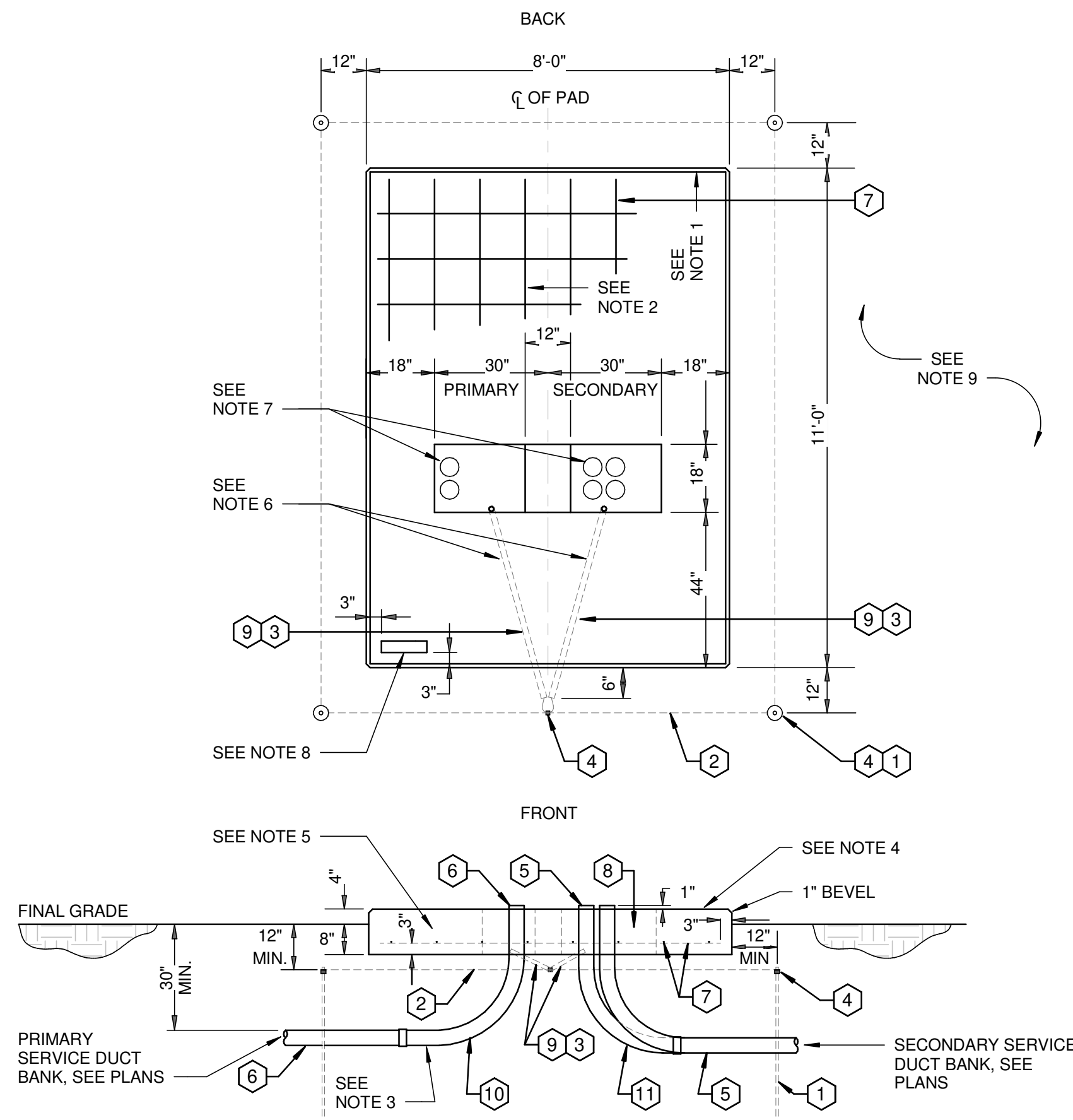
NOT TO SCALE

TRANSFORMER PAD KEYED NOTES:

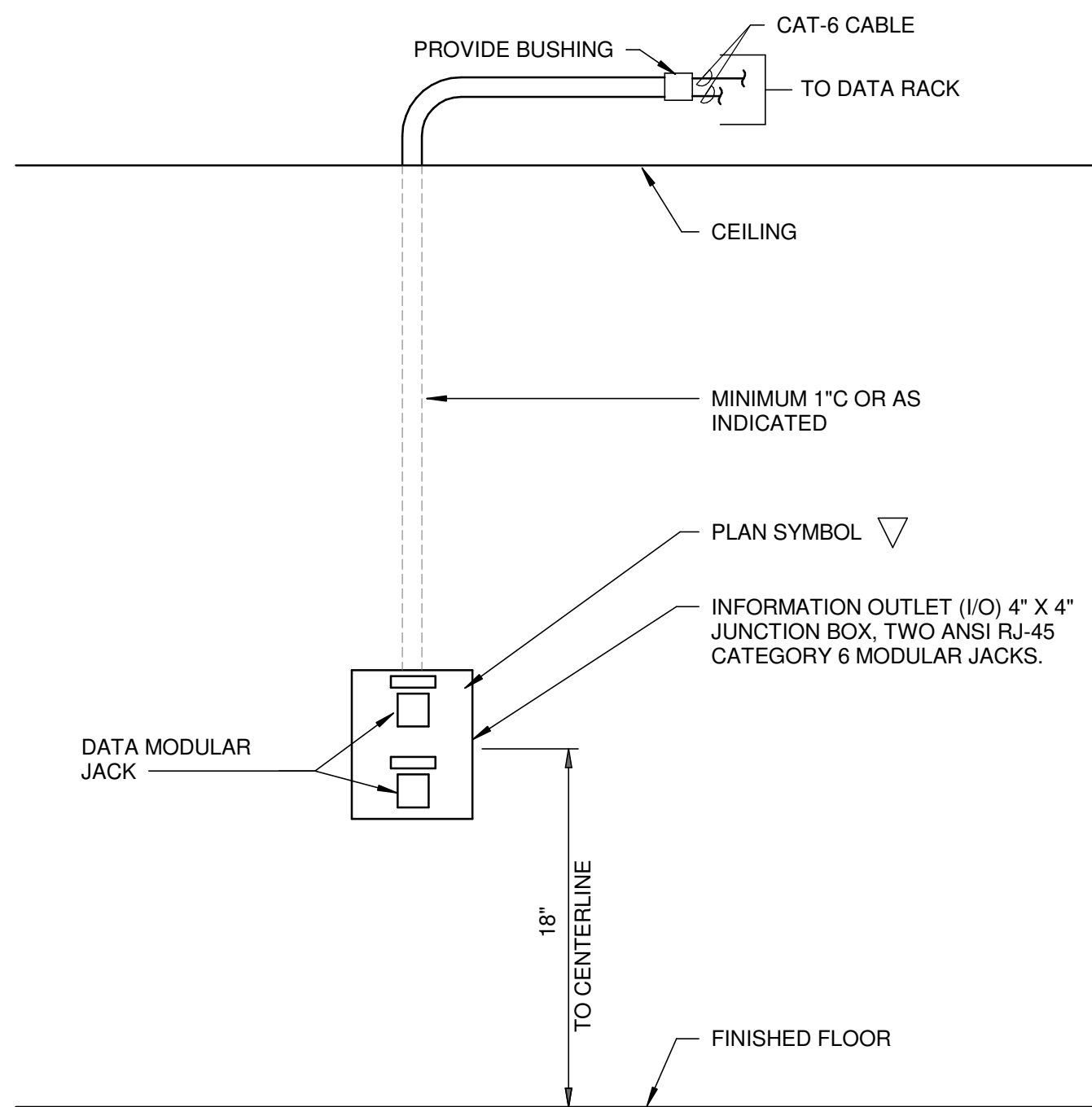
1. INSTALL NEW COPPER CLAD GROUND ROD, 3/4" x 10'-0", TYPICAL OF 4.
2. INSTALL NEW #2/0 BARE COPPER CONDUCTOR (TYPICAL).
3. INSTALL NEW #2 BARE COPPER CONDUCTOR.
4. INSTALL NEW EXOTHERMIC WELD, TYPICAL OF 5.
5. INSTALL NEW SECONDARY CONDUITS, SEE SITE PLAN.
6. INSTALL NEW PRIMARY CONDUITS, SEE SITE PLAN.
7. INSTALL NEW #4 REBAR, 12" O.C. BOTH WAYS.
8. CONSTRUCT NEW PAD USING CONCRETE, 3500 PSI AT 28 DAYS.
9. INSTALL NEW 1" GRSC UNDER PAD FOR GROUND WIRES (TYPICAL).
10. UTILIZE LONG SWEEP 90° BEND PVC CONDUITS ON PRIMARY CONDUITS.
11. UTILIZE LONG SWEEP 90° BEND CONDUITS ON SECONDARY CONDUITS.

TRANSFORMER PAD NOTES:

1. WHERE POSSIBLE, DO NOT PLACE CONDUIT UNDER THIS SECTION OF FOUNDATION.
2. REINFORCING - #4 BARS 12" O.C. BOTH WAYS.
3. WHEN INSTALLING CONDUIT, DISTURB GROUND IN FOUNDATION AREA AS LITTLE AS POSSIBLE. EXTEND CONDUIT 1" ABOVE FOUNDATION.
4. TOP OF FOUNDATION TO BE SMOOTH AND LEVEL. FINAL GRADE SHALL SLOPE AWAY FROM PAD.
5. CONCRETE SHALL BE 3500 PSI AT 28 DAYS AND 1:2:4 MIXTURE WITH 6 GAL. MAX. WATER CONTENT PER SACK OF CEMENT.
6. CONTRACTOR TO FURNISH 1" CONDUIT UNDER PAD FOR GROUND WIRE.
7. LOCATE CONDUITS UNDER PRIMARY AND SECONDARY BUSHINGS.
8. TRANSFORMER LOCATION TAG SHALL BE ATTACHED TO PAD WITH CONCRETE NAILS OR SHEET METAL SCREWS.
9. TRANSFORMER PAD REQUIRES A MINIMUM 3'-0" CLEARANCE AROUND EACH SIDE AND BACK OF PAD. A 15'-0" CLEARANCE IS REQUIRED ON FRONT SIDE OF PAD.



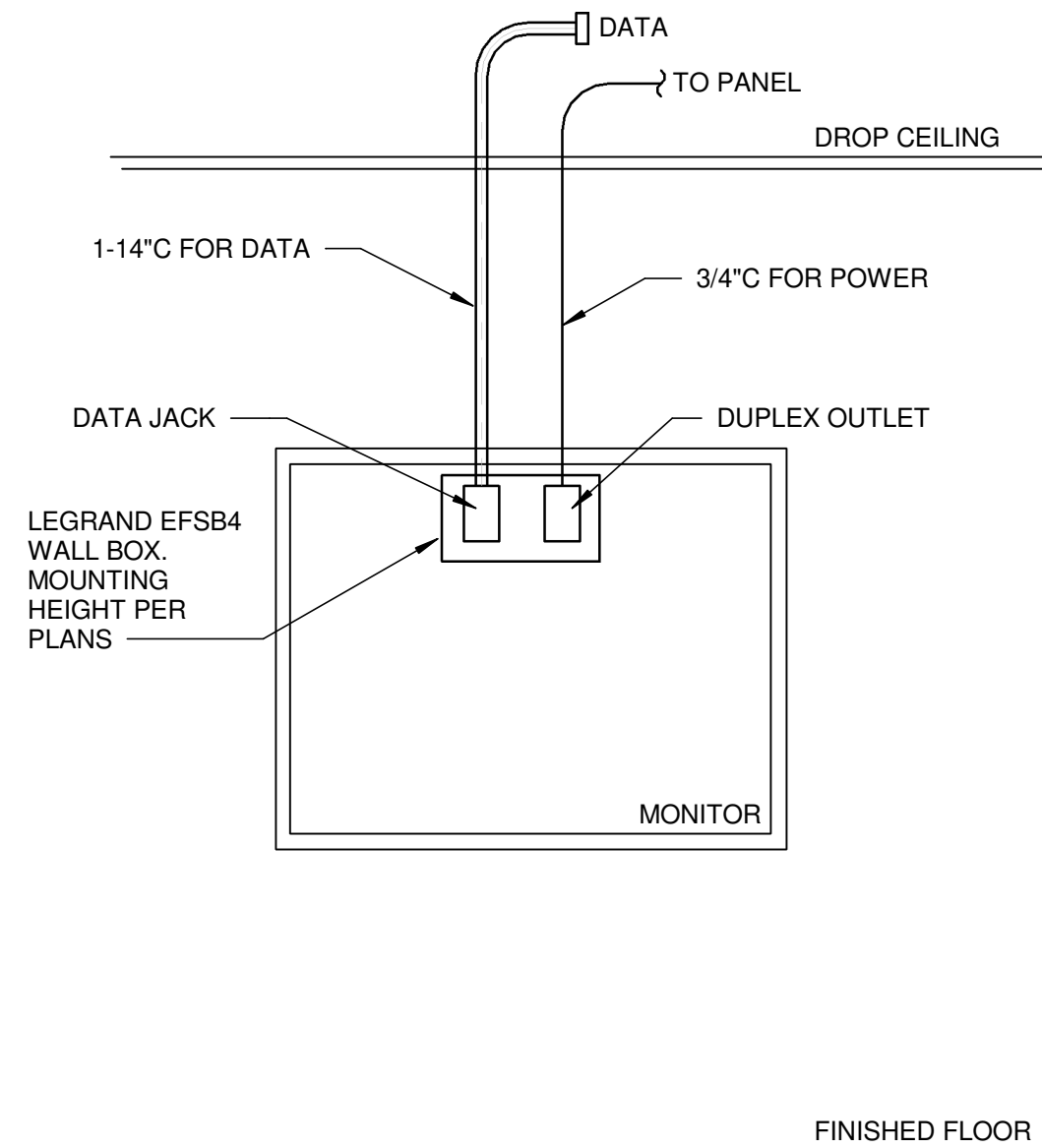
1 TRANSFORMER PAD DETAIL
NOT TO SCALE



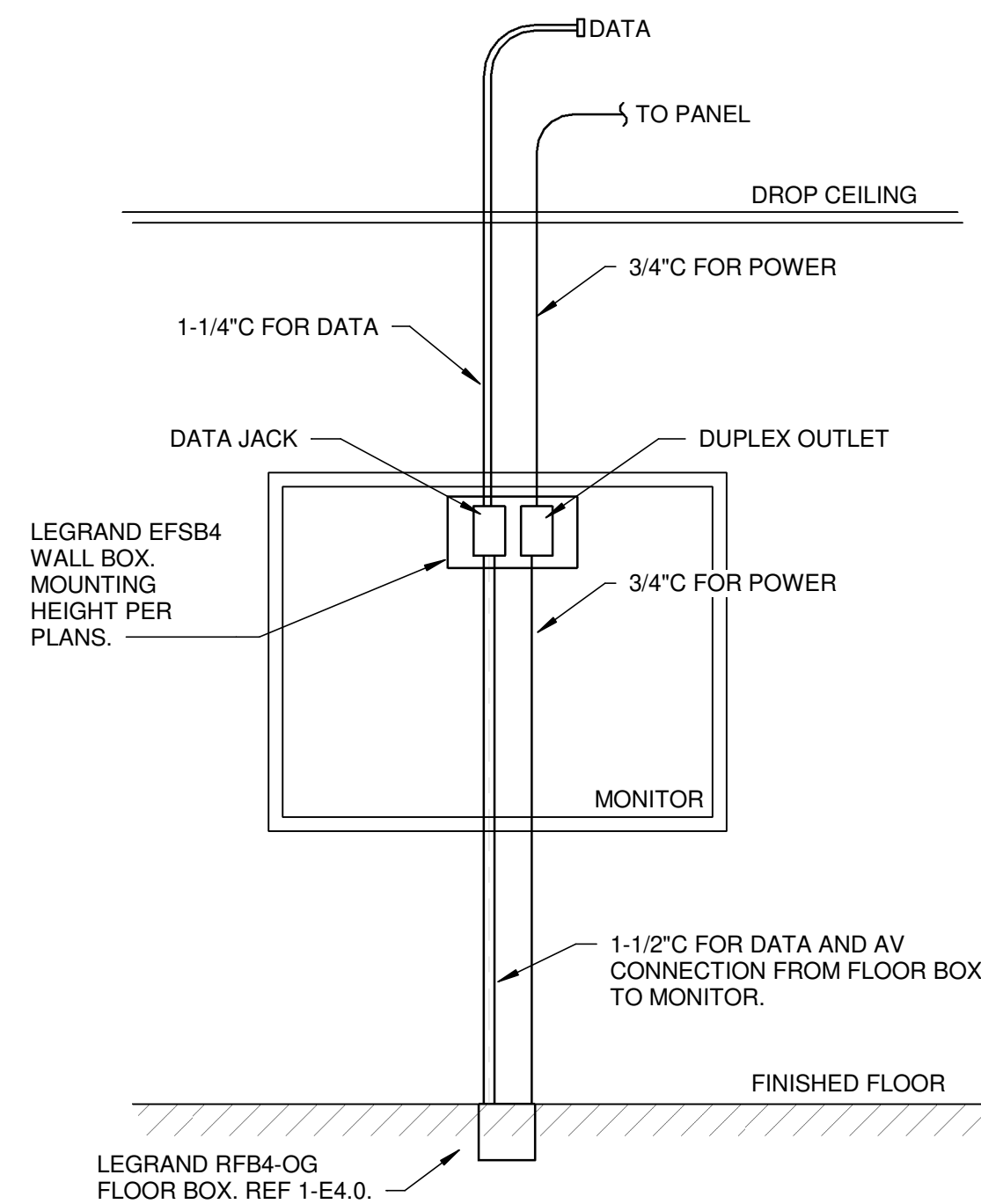
NOTES:

1. FLUSH MOUNTED INFORMATION OUTLET: 1 BOX, 2 JACKS, 2 CABLES, 1 CONDUIT PER INFORMATION OUTLET. ROUTE UP THROUGH WALL AND STUB ABOVE CEILING. CAP, TAG, AND IDENTIFY ALL CONDUIT. PROVIDE PULLWIRE IN ALL CONDUIT. PULLWIRE TO REMAIN AFTER CABLE INSTALLATION. TWO JACKS AND CABLES UNLESS OTHERWISE NOTED.

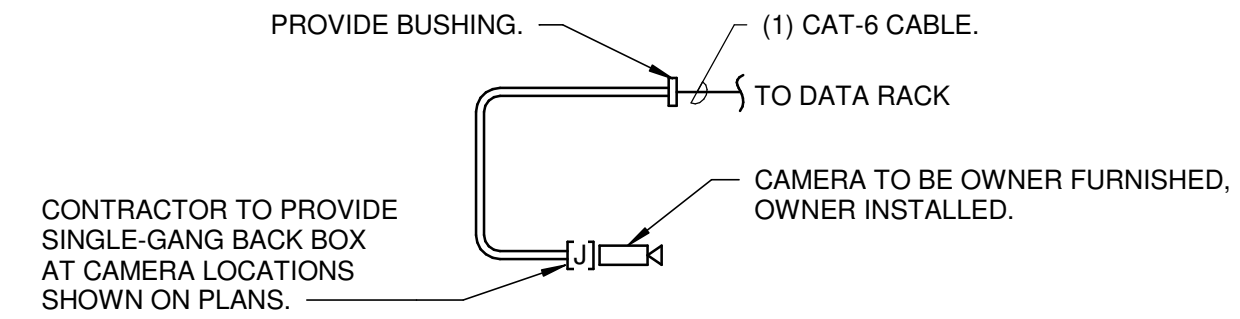
4 TYPICAL INFORMATION OUTLET
NOT TO SCALE



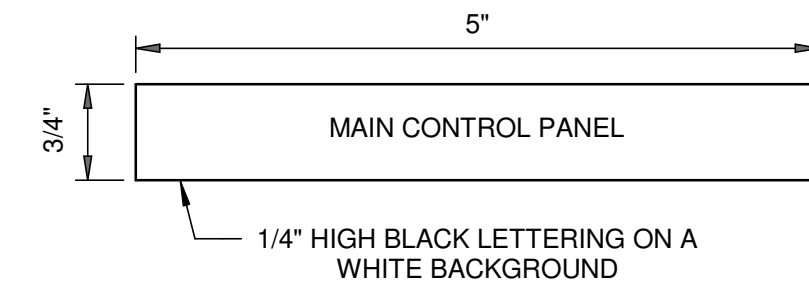
5 MONITOR DETAIL
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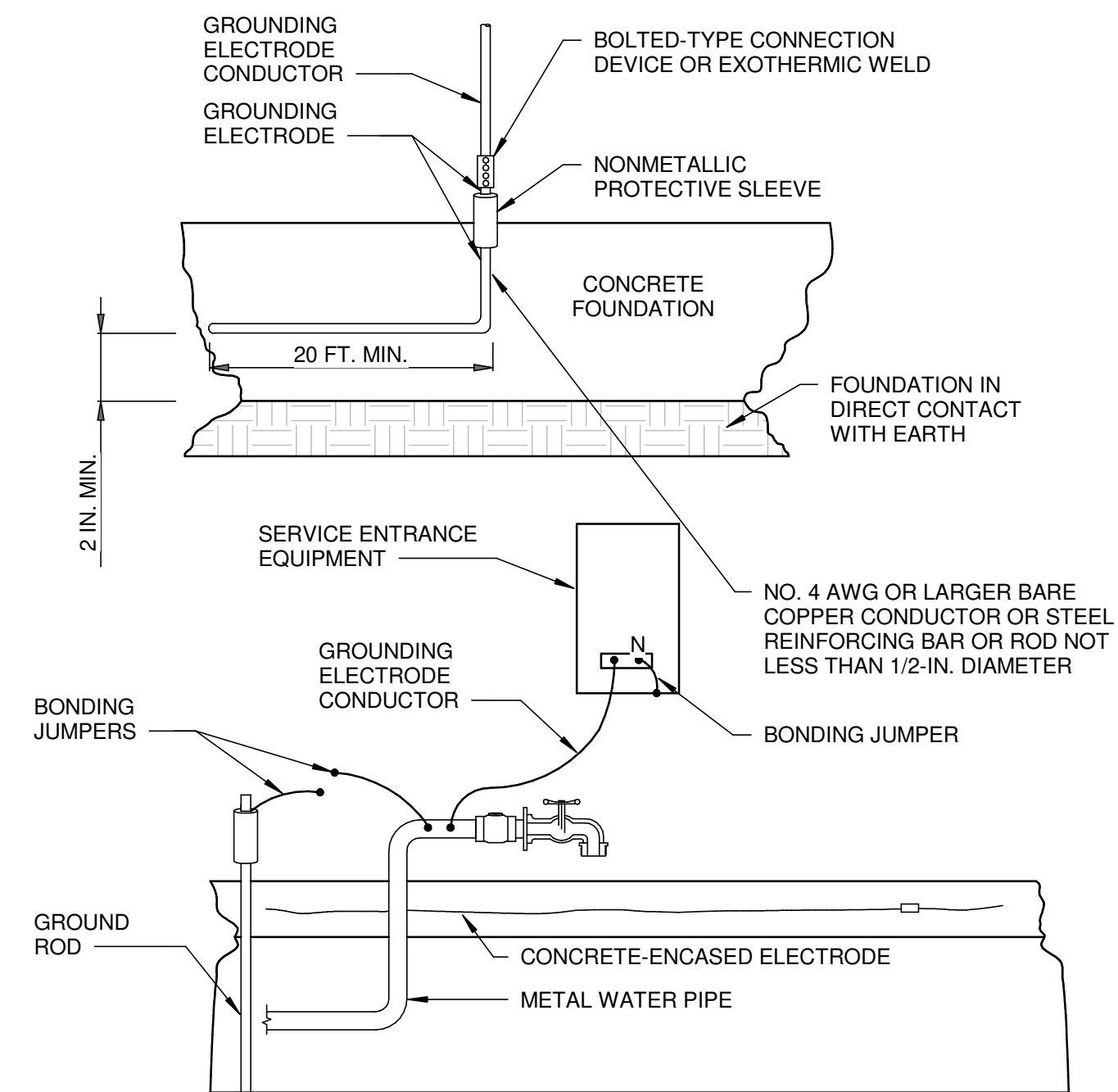
6 FLOOR BOX AND MONITOR DETAIL
NOT TO SCALE



2 CAMERA LOCATION DETAIL
NOT TO SCALE



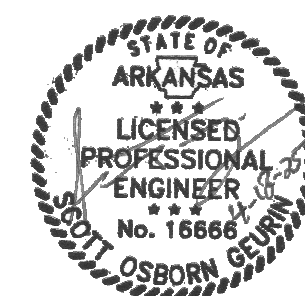
3 NAMEPLATE DETAIL
NOT TO SCALE



GROUND GRID NOTES:

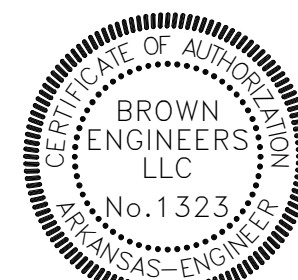
1. INSTALL 1/0 AWG STRANDED BARE SOFT DRAWN COPPER (BSDC) WIRE AND BOND GROUND TO REINFORCING STEEL BAR IN CONCRETE STRUCTURE FOOTING.
2. MAKE ALL CONNECTIONS USING EXOTHERMIC WELDING (CADWELD) PROCESS.
3. INSTALL 3/4" CONDUIT WITH (1)-#1/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR BETWEEN BUILDING STEEL COLUMN AND GROUND. REMOVE PAINT DOWN TO BARE AND BOND GROUND TO STEEL WITH MECHANICAL LUG. REPAINT AFTER INSTALLATION IS COMPLETE.

7 NEC 250 ELECTRICAL GROUNDING DETAIL
NOT TO SCALE



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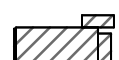



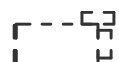
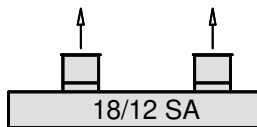
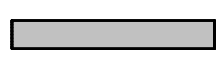
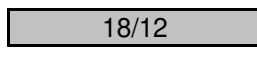

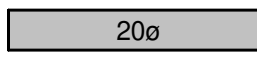

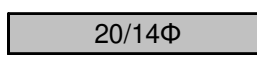
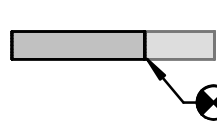
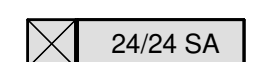

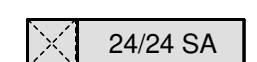
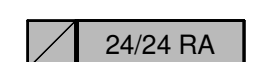
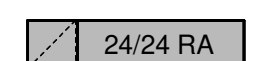
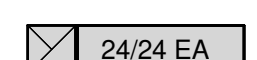
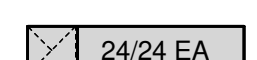



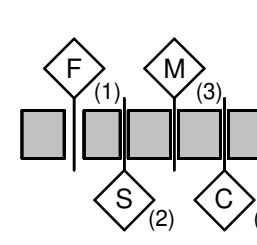
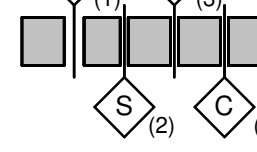
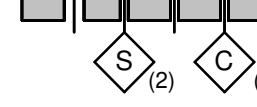
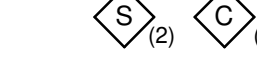
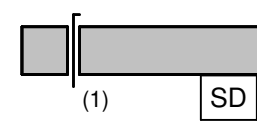

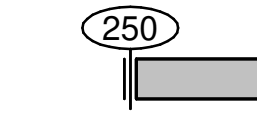
DEMOLITION GENERAL NOTES

- ALL EXISTING BUILDING HVAC EQUIPMENT SERVING RENOVATED AREA IS TO BE DEMOLISHED IN ENTIRETY.
- THE MECHANICAL DEMOLITION WORK INDICATED ON THE PLANS, SPECIFICATIONS, AND NOTES IS TO BE CLOSELY COORDINATED WITH THE OWNER'S REPRESENTATIVE. NO DEMOLITION SHALL TAKE PLACE IN ANY AREA OR BUILDING UNTIL THE CONTRACTOR HAS BEEN GIVEN APPROVAL TO PROCEED IN THAT SPECIFIC LOCATION. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE OF WORK.
- IF, DURING DEMOLITION, IT BECOMES NECESSARY TO TEMPORARILY REMOVE ANY EQUIPMENT, PIPING, OR OTHER SYSTEM WHICH IS NOT SPECIFICALLY NOTED TO BE REMOVED (THEREBY IMPLYING THAT THEY ARE TO BE LEFT FOR FUTURE USE), THE CONTRACTOR SHALL REINSTALL SAID SYSTEMS TO FULLY OPERABLE CONDITION IN THEIR ORIGINAL LOCATIONS.
- ALL DEMOLITION WORK SHALL BE SCHEDULED WITH THE OWNER'S REPRESENTATIVE AT LEAST 48 HOURS PRIOR TO THE WORK.
- PATCH ALL OPENINGS IN WALLS, FLOORS, AND CEILINGS WHERE DUCT, PIPING, AND CONTROLS HAVE BEEN REMOVED TO MATCH EXISTING.
- ANY DAMAGE TO THE OWNER'S PROPERTY, BUILDING, EXISTING SYSTEMS, OR EQUIPMENT RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
- MAINTAIN THE SECURITY OF THE BUILDING AT ALL TIMES.
- REMOVE EXISTING CONTROL SYSTEMS SERVING DEMOLISHED HVAC EQUIPMENT UNLESS OTHERWISE NOTED.
- REMOVE ALL EXISTING SUPPORTS ASSOCIATED WITH EQUIPMENT, DUCTWORK, AND PIPE BEING REMOVED UNLESS NOTED OTHERWISE.
- DISPOSE OF ALL REMOVED EQUIPMENT AS DIRECTED BY THE OWNER.
- CONTRACTOR SHALL COORDINATE REMOVAL OF UTILITY SERVICES WITH UTILITY COMPANIES AND LOCAL AUTHORITIES AND PAY ALL FEES.
- SCHEDULE UTILITY WORK WITH OWNER TO KEEP TO A MINIMUM ACCEPTABLE DOWNTIME AND TO NOT INTERFERE WITH THE BUILDING OPERATIONAL SCHEDULE, IF POSSIBLE.
- MAINTAIN THE FIRE AND SMOKE CONSTRUCTION INTEGRITY OF THE EXISTING BUILDINGS.
- DO NOT VENT REFRIGERANT TO ATMOSPHERE. RECOVER REFRIGERANT FOR REUSE USING ASHRAE RECOMMENDED PROCEDURES.
- IF DURING THE COURSE OF THE WORK MATERIAL WHICH MAY CONTAIN ASBESTOS IS DISCOVERED, STOP WORK IMMEDIATELY AND COMPLY WITH EPA REGULATIONS TO PROTECT WORKERS AND OCCUPANTS. NOTIFY OWNER AND ENGINEER.
- ALL UNDERGROUND PIPING WHICH IS SHOWN TO BE TAKEN OUT OF SERVICE SHALL BE REMOVED TO POINTS INDICATED, AND REMAINING PIPE SHALL BE PURGED AND PLUGGED.
- EXISTING EQUIPMENT SHALL BE RELOCATED AS NECESSARY FOR THE INSTALLATION OF THE NEW SYSTEMS. METHODS AND POSITIONS OF THE RELOCATIONS SHALL HAVE PRIOR APPROVAL OF THE ARCHITECT.
- DEMOLITION AND SHUTDOWN OF EXISTING HVAC SYSTEMS SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE AND PLANNED TO LIMIT INCONVENIENCE AND DISRUPTION OF BUILDING OPERATIONS AS MUCH AS POSSIBLE. WORK SHALL BE PHASED ACCORDINGLY. PLUMBING OR HVAC WORK REQUIRED IN OCCUPIED AREAS SHALL BE SCHEDULED WITH THE OWNER 48 HOURS IN ADVANCE.
- SPECIAL CARE SHALL BE TAKEN ON THE EXISTING ROOFS TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF EXISTING ROOF.
- DEMOLITION AND SHUTDOWN OF EXISTING HVAC SYSTEMS THAT WILL AFFECT PORTIONS OF THE BUILDING OUTSIDE OF PROJECT AREA SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE AND PLANNED TO LIMIT INCONVENIENCE AND DISRUPTION OF BUILDING OPERATIONS AS MUCH AS POSSIBLE. WORK SHALL BE PHASED ACCORDINGLY.

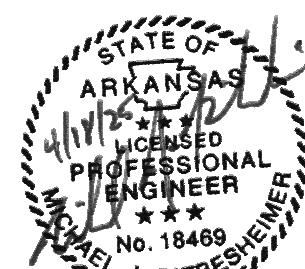
MECHANICAL GENERAL NOTES

- ALL MECHANICAL WORK SHALL COMPLY WITH ALL LOCAL CODES, DRAWINGS, SPECIFICATIONS, AND AUTHORITIES HAVING JURISDICTION. IF DISCREPANCIES ARE FOUND, THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETE AND WORK IS ACCEPTED.
- REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
- PRIOR TO BID, CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
- THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIED REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL DIFFERENCES PRIOR TO BID.
- ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.
- COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT.
- INFORMATION AND COMPONENTS ON DETAILS OR IN SPECIFICATIONS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK DISCIPLINE DESIGNER.
- EXACT LOCATIONS OF ALL EQUIPMENT, ROOF CURBS, DUCTS, DIFFUSERS, AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
- SEE ARCHITECTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS. COORDINATE PLACEMENT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL TRADES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ALL CONSTRUCTION DOCUMENTS FOR COMPLETE INFORMATION PRIOR TO BID.
- ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS AS SHOWN ON ARCHITECTURAL SHEETS. SEAL AROUND ALL PENETRATIONS THROUGH UL RATED ASSEMBLIES, FIRE AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
- NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, OR OTHER SYSTEMS SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
- SPECIAL CARE SHALL BE TAKEN ON EXISTING ROOFS TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF EXISTING ROOF.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS AIR AND WATER TIGHT.
- CLOSELY COORDINATE FINAL LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY FOR MAINTENANCE PURPOSES.
- CONTRACTOR SHALL VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO DUCT, PIPE OR EQUIPMENT FABRICATION. SYSTEMS SHALL BE ERECTED USING FIELD MEASUREMENTS FOR COORDINATION WITH THE EXISTING EQUIPMENT, STRUCTURE, FIRE PROTECTION AND ELECTRICAL IN THE SPACE.
- MAINTAIN THE SECURITY OF THE BUILDING AT ALL TIMES.
- CORE DRILL ALL PIPING PENETRATIONS OF CONCRETE WALLS AND FLOORS.
- ALL HVAC WORK TO BE PER SMRMA AND ALL APPLICABLE CODES. DUCT SIZES REPRESENT FREE AREA.
- ALL LOW PRESSURE DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE OFFSET WITH TWO - 45 DEGREE, 1.5 RADIUS ELBOWS UNLESS OTHERWISE NOTED.
- PROVIDE ACCESS DOORS IN WALLS, FLOORS, OR CEILINGS FOR ACCESS TO ALL FIRE DAMPERS, SMOKE DAMPERS, EQUIPMENT, COILS, VALVES, AND BALANCING DAMPERS. ACCESS DOORS ARE NOT REQUIRED WHERE DEVICES ARE DIRECTLY ACCESSIBLE THROUGH AIR DEVICES.
- PROVIDE FIRE DAMPERS AND SMOKE DAMPERS IN ALL RATED WALLS AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION. SEAL AROUND ALL PENETRATIONS OF RATED WALLS, CHASES, CEILINGS, AND FLOORS TO MAINTAIN THE FIRE/SMOKE RATING OF THE ASSEMBLY.
- ALL DUCTWORK UPSTREAM OF VAV BOXES SHALL BE CONSIDERED "MEDIUM PRESSURE DUCT".
- DUCT FITTINGS ARE AS FOLLOWS: 1) FLEX DUCT IS ONLY PERMITTED IN LINEAR DUCT RUNS. FLEX DUCT SHALL NOT BE USED WHERE DUCTWORK CHANGES DIRECTION. ALL ELBOWS SHALL BE HARD DUCTED. 2) ALL 90 DEGREE ELBOWS TO HAVE R/D = 1.5, UNLESS OTHERWISE NOTED. 3) ALL MITERED RECTANGULAR ELBOWS GREATER THAN 90 DEGREES NOTED ARE TO HAVE TURNING VANES. 4) SIDE TAKE-OFF FITTINGS SHALL BE EQUAL TO FLEXMASTER STODB03. 5) DAMPERS SHALL BE EQUAL TO FLEXMASTER SLDB03
- PROVIDE BRANCH TAKEOFF AND DAMPER AT EACH CONNECTION OF ROUND OR RECTANGULAR BRANCH DUCTS TO A RECTANGULAR DUCT. SEE DETAILS.
- REFER TO ARCHITECTURAL PLANS FOR LOCATION OF FIRE AND SMOKE WALLS.
- MAINTAIN A MINIMUM OF 10'-0" BETWEEN ALL FRESH AIR INTAKES AND PLUMBING VENTS, EXHAUST FAN DISCHARGE, AND FLUES. MAINTAIN MINIMUM CLEAR DISTANCE OF 5'0" BETWEEN PARAPET WALL AND ALL ROOF MOUNTED MECHANICAL EQUIPMENT.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE PROVIDED WITH MANUFACTURER'S FABRICATED CURBS WHICH FACILITATE LEVEL MOUNTING OF THE EQUIPMENT (I.E. FACTORY FABRICATED TO COMPENSATE FOR ROOF SLOPE). OBTAIN ROOF SLOPES AND DIRECTION OF SLOPE FROM ARCHITECTURAL AND/OR STRUCTURAL PLANS. ALL ROOF CURBS SHALL BE A MINIMUM OF 8" HIGH. SHIMMING OF CURBS IS NOT ACCEPTABLE.
- ROOF PENETRATIONS AND FLASHING OR SEALING MUST COMPLY WITH ROOF MANUFACTURER'S RECOMMENDATIONS AND WARRANTY REQUIREMENTS.
- ALL DUCTS SHALL BE MOUNTED HIGH AS POSSIBLE AGAINST BOTTOM OF STRUCTURE EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING SYSTEMS. DIAGONALLY OFFSET DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING SYSTEMS TO MAINTAIN DUCT TIGHT TO STRUCTURE.
- CONTRACTOR SHALL FIELD VERIFY ALL PIPE ROUTING AND ADJUST ELEVATIONS AS REQUIRED TO AVOID CONFLICTS. FINAL PLACEMENT OF PIPING SHALL BE DETERMINED BY FIELD MEASUREMENT AND VERIFICATION. ELEVATIONS ARE REFERENCED TO PIPE CENTERLINE UNLESS OTHERWISE NOTED.
- DUCTWORK SHALL CONFORM TO THE FOLLOWING PRESSURE CLASSES: SUPPLY: 2" SP; RETURN/RELIEF/OUTSIDE AIR/EXHAUST: 2" SP. ALL DUCTWORK IS REQUIRED TO BE TESTED IN ACCORDANCE WITH THE SPECIFICATIONS.
- ALL EQUIPMENT, DEVICES, AND FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.
- CONTRACTOR SHALL VERIFY CLOSELY AT SITE TRANSPORTATION OF NEW HVAC EQUIPMENT INTO MECHANICAL AREAS BEFORE BIDDING. PROVIDE COMPLETE DISASSEMBLY AND RE-ASSEMBLY OF NEW EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
- PROVIDE FLEXIBLE CONNECTIONS AND TRANSITIONS ON DUCT INLET AND OUTLET CONNECTIONS TO ALL EQUIPMENT WITH MOVING PARTS.
- DUCTWORK VISIBLE THROUGH RETURN AIR OPENINGS SHALL BE PAINTED FLAT BLACK TO REDUCE VISIBILITY.
- EXPOSED DUCTWORK AND PIPING SHALL BE FURNISHED SUITABLE FOR PAINTING, AND SHALL BE PAINTED AS REQUIRED BY ARCHITECTURAL SPECIFICATIONS.
- NOT ALL REQUIRED PIPING, VALVES, OR FITTINGS ARE SHOWN ON DRAWINGS FOR CLARITY. COORDINATE PLAN DETAILS WITH SPECIFICATIONS, SCHEMATICS, FLOW DIAGRAMS, AND OTHER DETAILS TO PROVIDE COMPLETE PIPING SYSTEMS.
- COORDINATE WORK CLOSELY WITH CONTROL REQUIREMENTS. PROVIDE ALL NECESSARY DUCT TAPS, PIPE TAPS, WELLS, AND OTHER APPURTENANCES REQUIRED BY CONTROL SYSTEM. PROVIDE SPARE PIPE WELL ADJACENT TO EACH TEMPERATURE SENSOR IN PIPING.
- REFER TO ARCHITECTURAL PLANS FOR CEILING GRILLE AND DIFFUSER LOCATIONS, FOR CEILING TYPE, AND FOR MOUNTING REQUIREMENTS. CONTRACTOR SHALL PROVIDE AND INSTALL ALL AIR DEVICES WITH MOUNTING SYSTEM DESIGNED FOR MOUNTING SURFACE TYPE.
- COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS WITH WALL-MOUNTED DEVICES AND OWNER'S REPRESENTATIVE. MOUNT PER A.D.A. REQUIREMENTS. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.
- INSTALL SMOKE DETECTOR IN SUPPLY AND RETURN DUCT OF ALL AIR HANDLERS SUPPLYING GREATER THAN 2,000 CFM.
- PROVIDE CONCRETE PADS FOR ALL GROUND MOUNTED EQUIPMENT.
- REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.
- CONTRACTOR SHALL PATCH ALL WALLS, FLOORS, AND CEILINGS TO MATCH NEW FOR ALL OPENINGS CREATED BY INSTALLATION OF EQUIPMENT AND HVAC SERVICE PENETRATIONS.
- ALL SUPPLY, RETURN, RELIEF, AND OUTSIDE AIR DUCTWORK SHALL BE EXTERNALLY INSULATED EXCEPT WHERE LINER, DOUBLE WALL LINED DUCT, OR FABRIC DUCT IS INDICATED.
- INSULATE TOPS OF SUPPLY AIR DIFFUSERS WITH 2" THICK FIBERGLASS DUCT WRAP.
- REFER TO SPECIFICATIONS FOR INSULATION AND R-VALUES FOR MECHANICAL PIPING AND DUCTWORK INSULATION.
- SEE ARCHITECTURAL PLANS FOR ROOF PENETRATION DETAILS.
- ALL HVAC COMPONENTS WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, HVAC FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
- ALL CONTROL WIRING SHALL BE INSTALLED IN CONDUIT.
- PLENUM CABLING SHALL HAVE ITS OWN SYSTEM OF SUPPORT AND BE STRUCTURALLY SOUND, ATTACHMENT TO CEILING GRID AND HANGER WIRES IS PROHIBITED. WHERE NOT INSTALLED IN CONDUIT, CABLING SHALL BE RUN IN CABLE HOOKS. CABLING LAYING ON CEILING TILES IS PROHIBITED.
- CONTRACTOR SHALL PROVIDE FURR DOWN AND ANY OTHER CEILING MODIFICATIONS NEEDED TO ACCOMMODATE DUCTWORK PENETRATIONS.
- PROVIDE ALL HVAC UNITS WITH AN EXTRA SET OF MANUFACTURER'S RECOMMENDED FILTERS AFTER PROJECT COMPLETION.
- REFER TO STRUCTURAL ENGINEERING CONTRACT DOCUMENTS FOR PROJECT SEISMIC DESIGN CRITERIA. PROVIDE VIBRATION ISOLATION AND SEISMIC RESTRAINT SYSTEMS FOR EQUIPMENT, DUCTWORK, AND PIPING AS REQUIRED.

HVAC LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION
AHU	AIR HANDLING UNIT		CEILING SUPPLY DIFFUSER		NEW EQUIPMENT
AFF	ABOVE FINISHED FLOOR		CEILING RETURN/EXHAUST GRILLE		EXISTING EQUIPMENT TO REMAIN
AP	ACCESS PANEL		GRILLE OR REGISTER ON BOTTOM OF DUCTWORK		EXISTING EQUIPMENT TO BE REMOVED
BHP	BRAKE HORSEPOWER		SIDEWALL SUPPLY (RETURN SIMILAR)		NEW DUCT
BTUH	BRITISH THERMAL UNIT PER HOUR		RECTANGULAR DUCT WITH DUCT SIZE TAG		EXISTING DUCT TO REMAIN
CFM	CUBIC FEET PER MINUTE		ROUND DUCT WITH DUCT SIZE TAG		DEMOLISH EXISTING DUCT BACK TO POINT.
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT		OVAL DUCT WITH DUCT SIZE TAG		CONNECT TO EXISTING DUCT.
D	DRAIN		SUPPLY DUCT UP	<div>AIR DEVICE DESIGNATION</div> <div>AIR DEVICE "MARK"</div>	
DB	DRY BULB TEMPERATURE		SUPPLY DUCT DOWN		
DN	DOWN		RETURN DUCT UP		
EA	EXHAUST AIR		RETURN DUCT DOWN		
EAT	ENTERING AIR TEMPERATURE OF THE COIL		EXHAUST DUCT UP		
ESP	EXTERNAL STATIC PRESSURE		EXHAUST DUCT DOWN		
EWT	ENTERING WATER TEMPERATURE		RECTANGULAR/OVAL TRANSITION		
FCU	FAN COIL UNIT		RECTANGULAR/ROUND TRANSITION		
FLR	FLOOR		FLEXIBLE DUCT CONNECTION		
FO	FLAT OVAL		(1) FIRE DAMPER		
FPM	FEET PER MINUTE (VELOCITY)		(2) SMOKE DAMPER		
GPM	GALLONS PER MINUTE		(3) MOTORIZED DAMPER		
HP	HORSEPOWER		(4) CONTROL DAMPER		
KW	KILOWATT		(1) BALANCING DAMPER		
LAT	LEAVING AIR TEMPERATURE OF THE COIL		(2) SMOKE DETECTOR		
LWT	LEAVING WATER TEMPERATURE		BALANCING DAMPER, SET TO INDICATED CFM		
MAU	MAKE-UP AIR UNIT				
MAX	MAXIMUM				
MIN	MINIMUM				
MHP	MOTOR HORSEPOWER				
NTS	NOT TO SCALE				
OSA	OUTSIDE AIR				
PSI	POUNDS PER SQUARE INCH				
RA	RETURN AIR				
RH	RELATIVE HUMIDITY				
RPM	REVOLUTION PER MINUTE				
RTU	ROOF TOP (AIR CONDITIONING) UNIT				
SA	SUPPLY AIR				
SP	STATIC PRESSURE				
TYP	TYPICAL				
VAV	VARIABLE AIR VOLUME				
WB	WET BULB TEMPERATURE				
XFR	TRANSFER AIR				
'	FEET				
"	INCHES				
Ø	ROUND DUCT				
Φ	OVAL DUCT				

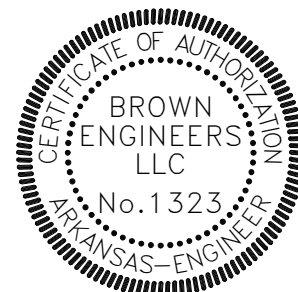
* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

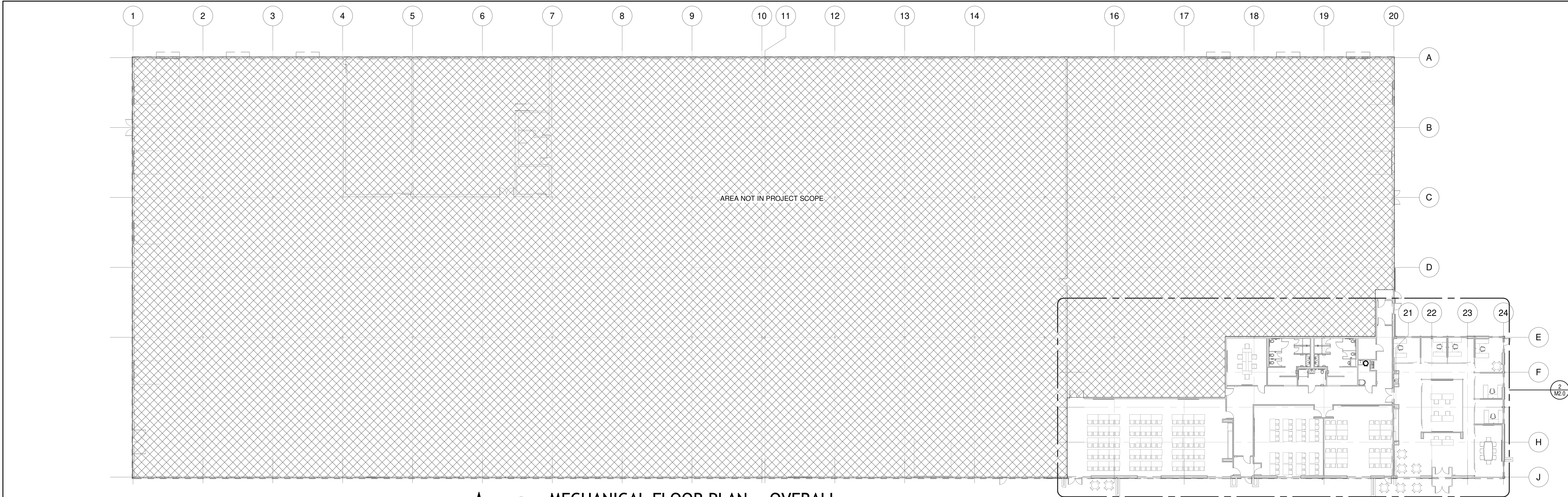


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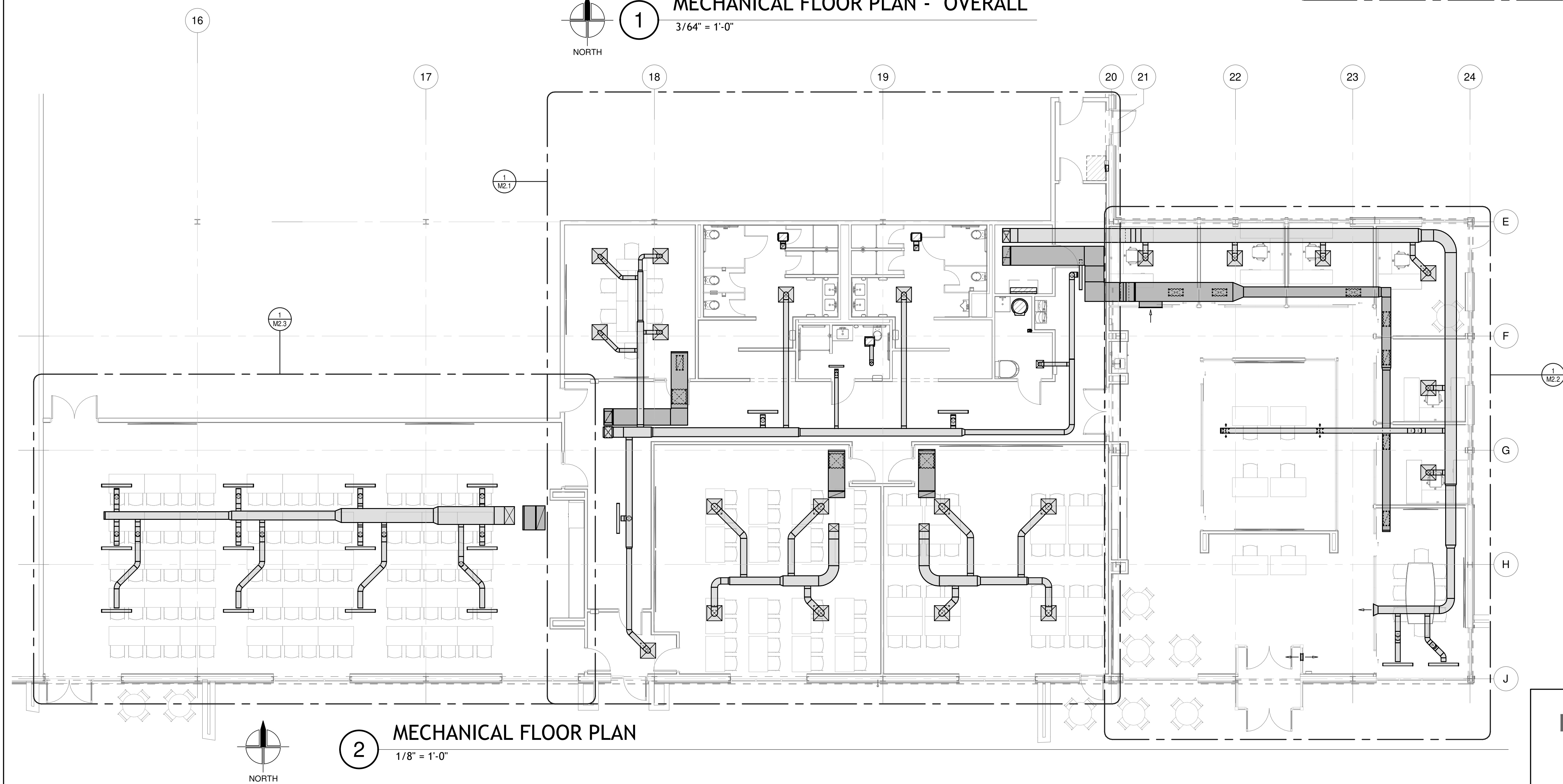
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1 MECHANICAL FLOOR PLAN - OVERALL
3/64" = 1'-0"

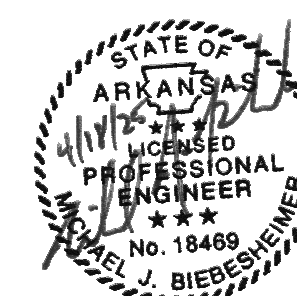


2 MECHANICAL FLOOR PLAN
1/8" = 1'-0"

HVAC CONTROLS:
STANDALONE MANUFACTURER FURNISHED 7-DAY PROGRAMMABLE THERMOSTATS SHALL COMMUNICATE SCHEDULED ADJUSTABLE SPACE TEMPERATURE SETPOINTS TO BE EITHER OCCUPIED (74 DEG) OR UNOCCUPIED (70 DEG HEATING, 78 DEG COOLING) WITH MANUAL TIMED OVERRIDE AND AUTOMATIC CHANGEOVER.

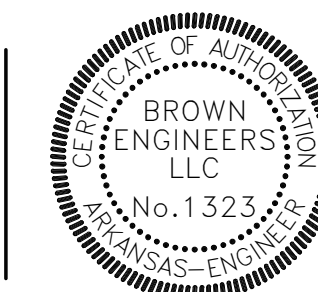
TYPICAL AHU SEQUENCE OF OPERATION
CONTROLLER SHALL ENERGIZE SUPPLY FAN, STAGED HEAT PUMP, AND STAGED / MODULATING ELECTRIC HEAT IN SEQUENCE TO MAINTAIN SPACE TEMPERATURE SETPOINTS.
CONTROLLER SHALL MODULATE OSA AND RA DAMPERS IN SEQUENCE PER MANUFACTURER FURNISHED DIFFERENTIAL ENTHALPY ECONOMIZER CONTROLS.
RTU SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS AND MAINTAIN MINIMUM SCHEDULED OSA FLOW RATE.

EXHAUST FAN CONTROLS
EXHAUST FANS SHALL BE INTERLOCKED WITH ASSOCIATED ROOM LIGHTING.



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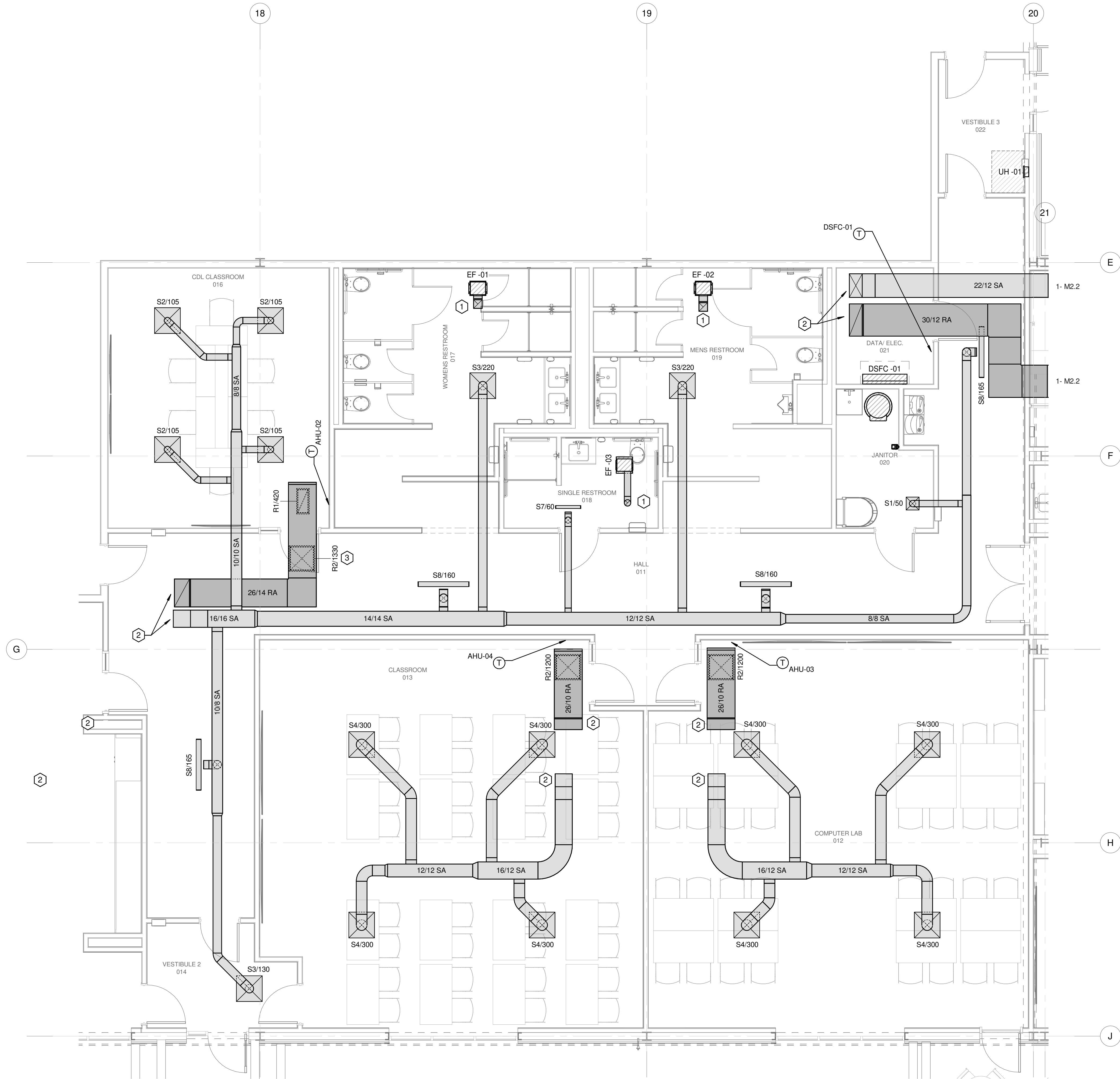
HVAC -- BRANCH DUCT CONNECTION SIZES			
**Note: For Rectangular Ducts, shortest dimension reflects depth unless otherwise noted on plans.			
DESIGNATION	INLET Ø	INLET HT.	INLET W.
S1	6"		
S2	6"		
S3	8"		
S4	10"		
S5		3"	10"
S6		12"	18"
S7	6"		
S8	8"		
R1		10"	22"
R2		22"	22"
R3		6"	10"
R4		6"	36"

GENERAL NOTES:

1. THERMOSTATS SHALL BE MOUNTED NEXT TO LIGHT SWITCH OF ASSOCIATED ROOM PER ADA REQUIREMENTS. ALIGN TOP OF THERMOSTAT WITH TOP OF LIGHT SWITCH FACE PLATE.
2. MOUNT ALL WALL-MOUNTED MINI-SPLIT FAN COILS AT APPROX. 8'-0" A.F.F. ADJUST HEIGHT AS REQUIRED FOR COORDINATION WITH OTHER SYSTEMS IN ROOM.
3. PROVIDE MANUAL BALANCING DAMPERS AT EACH TAKEOFF AND FINAL TRANSITION FROM DUCT MAIN. REFER TO MECHANICAL DETAILS FOR FURTHER REQUIREMENTS.
4. ALL EXPOSED DUCT IN INTERIOR SPACES SHALL BE LINED AND SUITABLE FOR PAINTING. COORDINATE FINISH WITH ARCHITECT.
5. ALL THERMOSTATS, INCLUDING THOSE ASSOCIATED WITH MINI-SPLITS, SHALL BE HARD-WIRED AND WALL-MOUNTED. ADJUST LINEAR SLOT DIFFUSERS FOR VERTICAL THROW.
- 6.

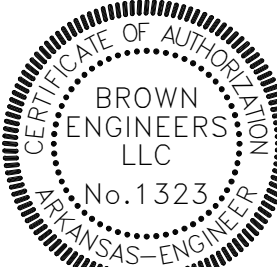
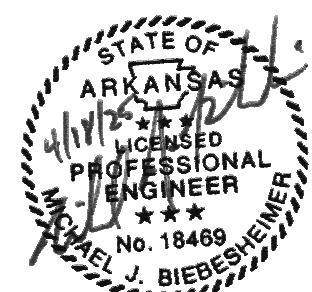
KEYED NOTES:

1. UP TO FAN MANUFACTURER FURNISHED ROOF JACK
2. UP TO AHU ON ROOF.
3. INSTALL GRILLE IN ACT ABOVE SUSPENDED GYP CEILING.



1 ENLARGED HVAC PLAN - CLASSROOM
1/4" = 1'-0"

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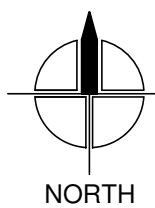
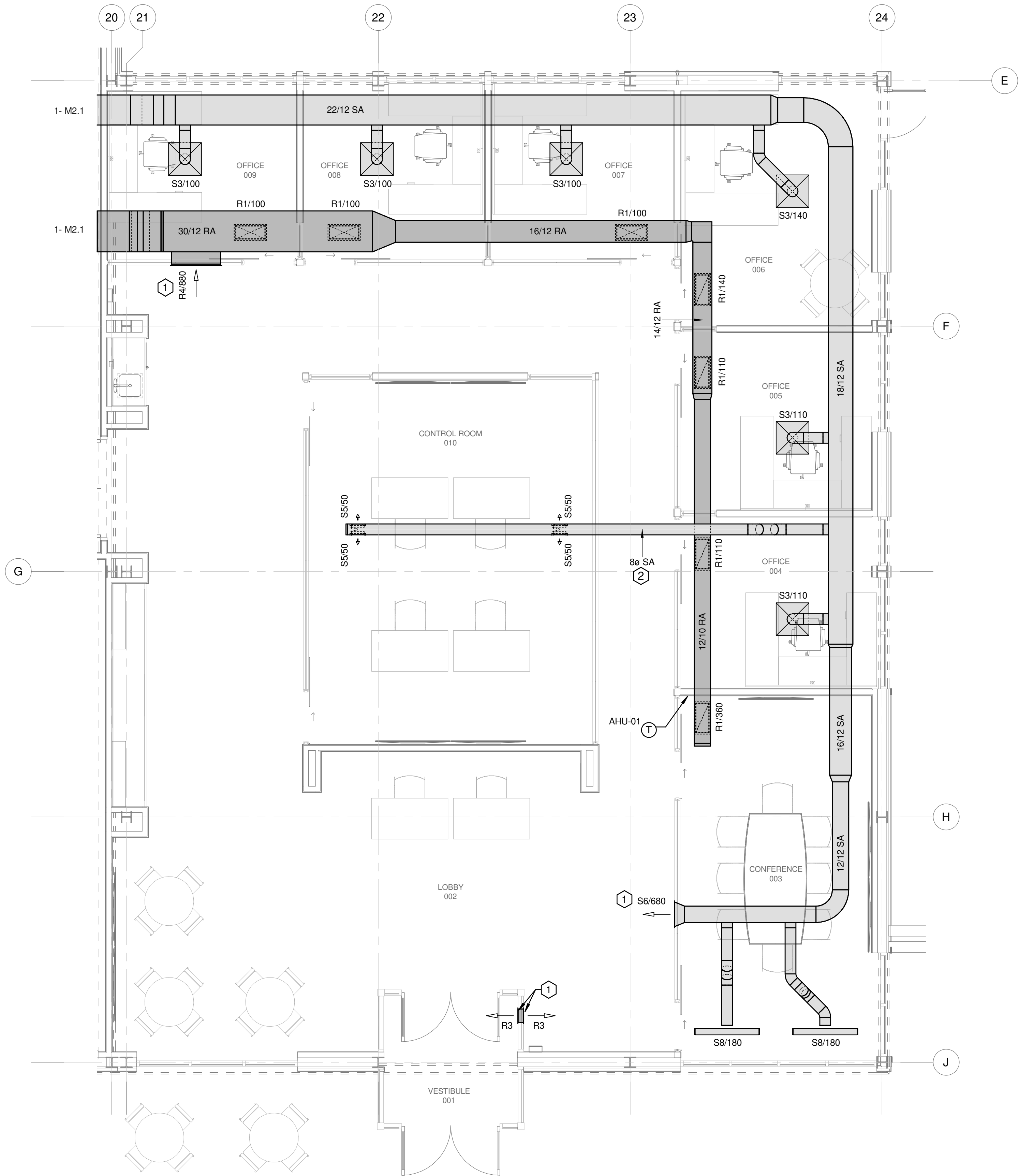
HVAC -- BRANCH DUCT CONNECTION SIZES			
**Note: For Rectangular Ducts, shortest dimension reflects depth unless otherwise noted on plans.			
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S2	6"		
S3	8"		
S4	10"		
S5		3"	10"
S6		12"	18"
S7	6"		
S8	8"		
R1		10"	22"
R2		22"	22"
R3		6"	10"
R4		6"	36"

GENERAL NOTES:

- THERMOSTATS SHALL BE MOUNTED NEXT TO LIGHT SWITCH OF ASSOCIATED ROOM PER ADA REQUIREMENTS. ALIGN TOP OF THERMOSTAT WITH TOP OF LIGHT SWITCH FACE PLATE.
- MOUNT ALL WALL-MOUNTED MINI-SPLIT FAN COILS AT APPROX. 8'-0" A.F.F. ADJUST HEIGHT AS REQUIRED FOR COORDINATION WITH OTHER SYSTEMS IN ROOM.
- PROVIDE MANUAL BALANCING DAMPERS AT EACH TAKEOFF AND FINAL TRANSITION FROM DUCT MAIN. REFER TO MECHANICAL DETAILS FOR FURTHER REQUIREMENTS.
- ALL EXPOSED DUCT IN INTERIOR SPACES SHALL BE LINED AND SUITABLE FOR PAINTING. COORDINATE FINISH WITH ARCHITECT.
- ALL THERMOSTATS, INCLUDING THOSE ASSOCIATED WITH MINI-SPLITS, SHALL BE HARD-WIRED AND WALL-MOUNTED.
- ADJUST LINEAR SLOT DIFFUSERS FOR VERTICAL THROW.

KEYED NOTES:

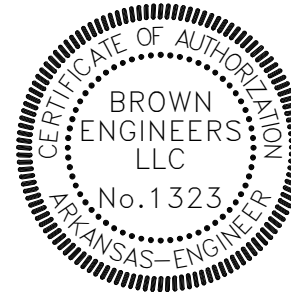
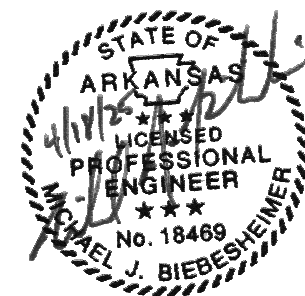
- INSTALL SIDEWALL GRILLES 11'-0" AFF.
- ROUTE LINED SUPPLY AIR DUCT AT 12'-6" AFF.



1

ENLARGED HVAC PLAN - OFFICE

1/4" = 1'-0"



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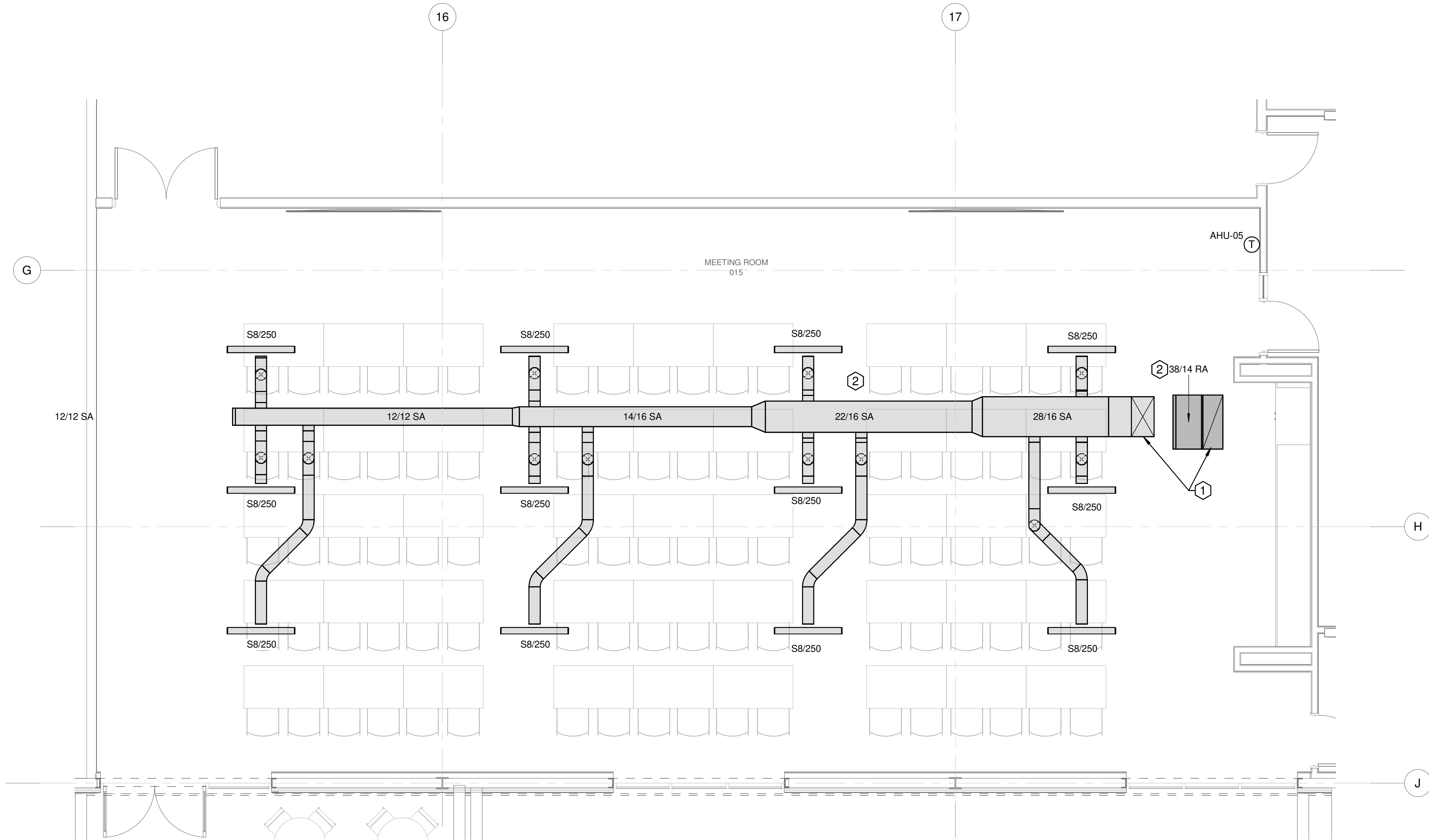
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R1		10"	22"
R2		22"	22"
R3		6"	10"
R4		6"	36"

GENERAL NOTES:

1. THERMOSTATS SHALL BE MOUNTED NEXT TO LIGHT SWITCH OF ASSOCIATED ROOM PER ADA REQUIREMENTS. ALIGN TOP OF THERMOSTAT WITH TOP OF LIGHT SWITCH FACE PLATE.
2. MOUNT ALL WALL-MOUNTED MINI-SPLIT FAN COILS AT APPROX. 8'-0" A.F.F. ADJUST HEIGHT AS REQUIRED FOR COORDINATION WITH OTHER SYSTEMS IN ROOM.
3. PROVIDE MANUAL BALANCING DAMPERS AT EACH TAKEOFF AND FINAL TRANSITION FROM DUCT MAIN. REFER TO MECHANICAL DETAILS FOR FURTHER REQUIREMENTS.
4. ALL EXPOSED DUCT IN INTERIOR SPACES SHALL BE LINED AND SUITABLE FOR PAINTING. COORDINATE FINISH WITH ARCHITECT.
5. ALL THERMOSTATS, INCLUDING THOSE ASSOCIATED WITH MINI-SPLITS, SHALL BE HARD-WIRED AND WALL-MOUNTED. ADJUST LINEAR SLOT DIFFUSERS FOR VERTICAL THROW.
- 6.

KEYED NOTES:

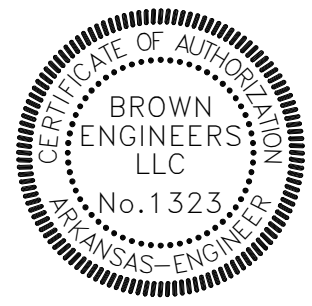
1. UP TO AHU ON ROOF.
2. INSTALL LINED RETURN DUCT AT 19'-0" AFF. PROVIDE 38/14 OPENING WITH EXPANDED METAL FACE ON TOP OF DUCT. ROUTE LINED SUPPLY DUCT MAIN BELOW STRUCTURE AT 17'-0" AFF. CONCEAL BRANCH DUCT RUNOUTS ABOVE SUSPENDED CEILING PANELS.
- 3.



1 ENLARGED HVAC PLAN - MEETING ROOM
1/4" = 1'-0"



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100% CONSTRUCTION DOCUMENTS REVISIONS:

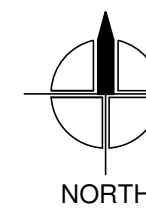
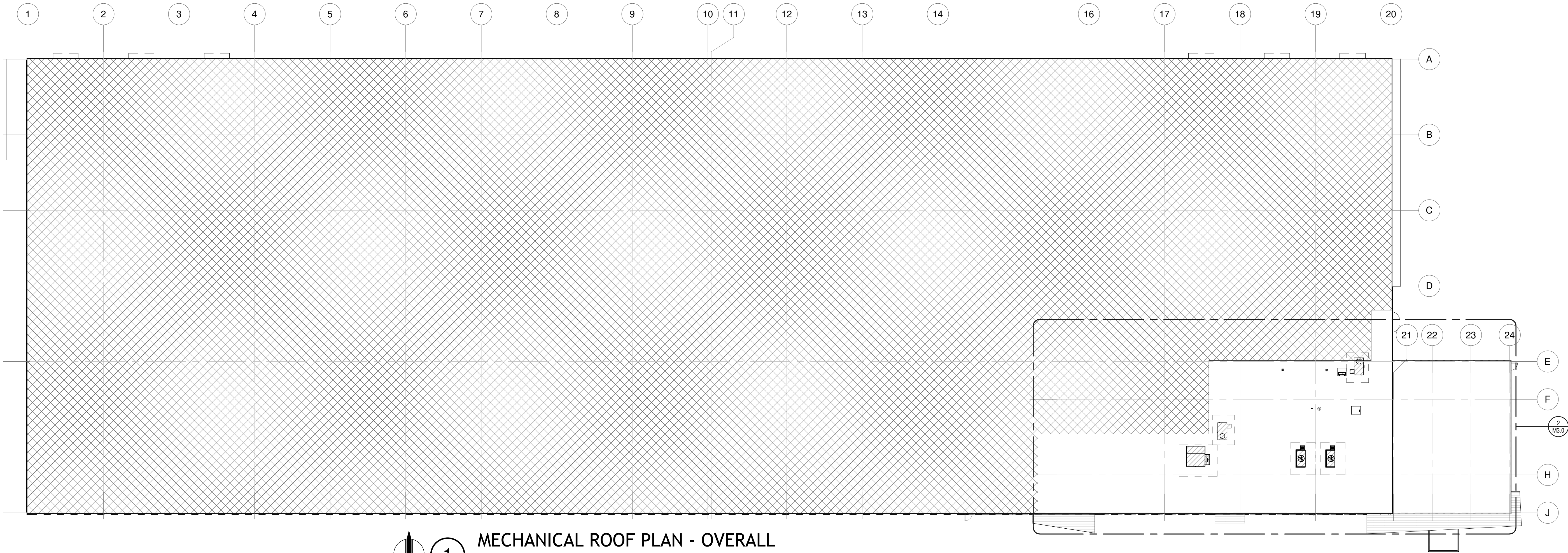
04.18.2025

ENLARGED HVAC PLAN - MEETING

M2.3

UACCB GATEWAY CENTER FARM

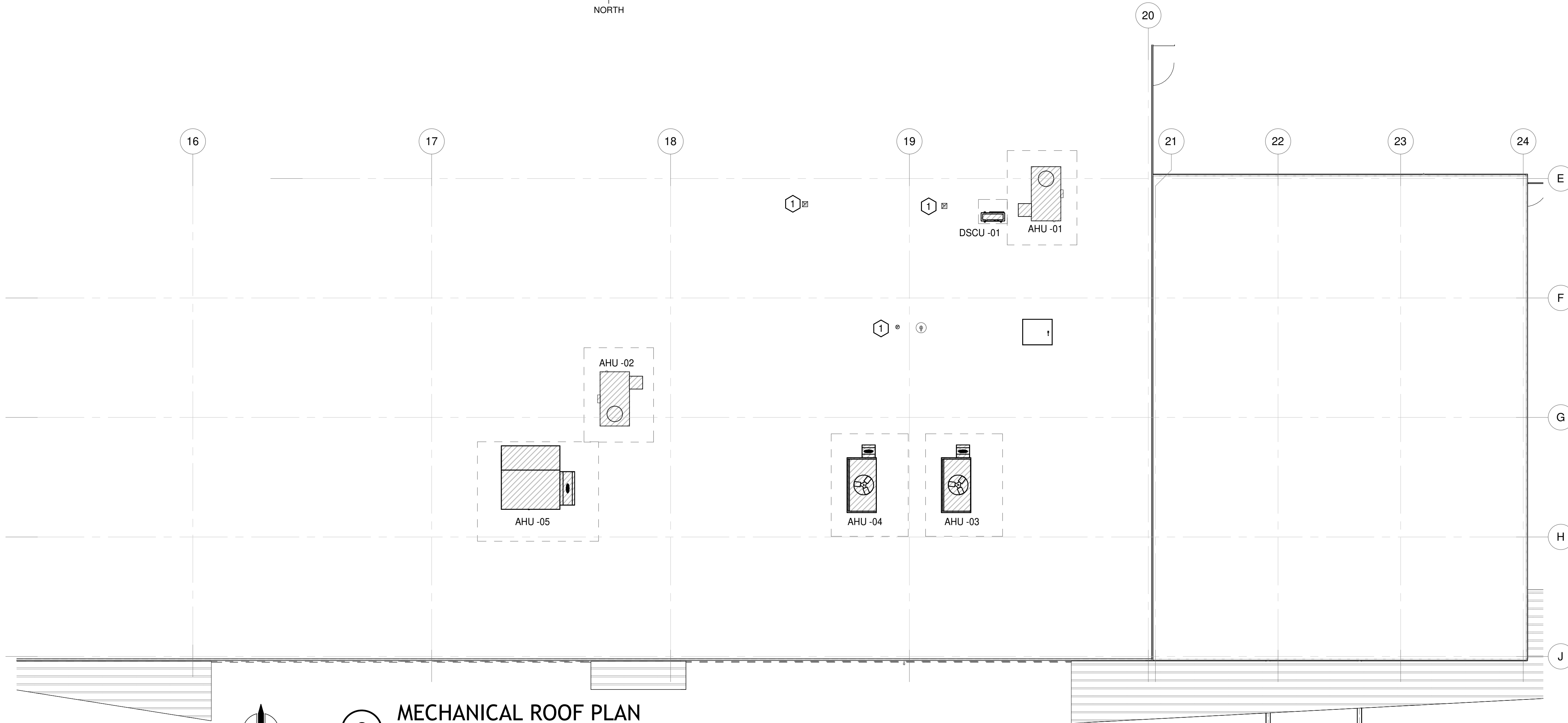
2210 E. Main Street, Batesville, AR



1

MECHANICAL ROOF PLAN - OVERALL

3/64" = 1'-0"



2

MECHANICAL ROOF PLAN

1/8" = 1'-0"

GENERAL NOTES:

1. DISCHARGE AHU CONDENSATE DRAIN TO ROOF SLOPE.
2. MAINTAIN 10' MIN CLEARANCE BETWEEN EXHAUST OUTLETS AND OSA INTAKES
3. MAINTAIN 10' MIN CLEARANCE BETWEEN MECHANICAL EQUIPMENT AND ROOF OPENINGS / EDGES.

KEYED NOTES:

1. FAN MANUFACTURER FURNISHED ROOF JACK.

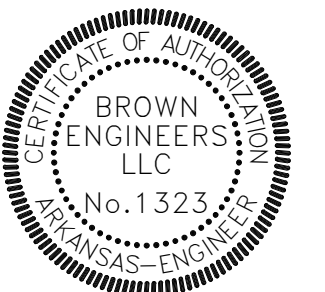


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MECHANICAL ROOF PLANS 100% CONSTRUCTION DOCUMENTS REVISIONS:

04.18.2025

UACCB GATEWAY CENTER FARM
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M3.0

HVAC -- AHU - PACKAGED SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	AIRFLOWS		SUPPLY FAN		NOMINAL COOLING	NET TOTAL COOLING	NET SENSIBLE COOLING	COOLING DATA		HEATING DATA		HEATING DATA		ELECTRCIAL DATA				REMARKS		
TYPE	MARK				SUPPLY AIR	OUTSIDE AIR (MINIMUM)	EXTERNAL STATIC PRESS.	(QTY) @ HP				(QTY) @ BHP	DB	WB	DB	WB	TYPE	HEAT PUMP CAPACITY @ 17° F	ELEC HEAT	VOLTAGE	PHASE		MCA	MOCP
AHU	01	STANDARD HEAT PUMP AIR HANDLING UNIT	TEMPMASTER	WN060C00A2ABQAA5A1	1,900 CFM	330 CFM	0.91 in-wg	(1) @ 1.0	(1) @ 0.98	5.0 ton	55,400 Btu/h	40,300 Btu/h	79 °F	65 °F	58 °F	55 °F	HEAT PUMP + AUX ELEC	31,800 Btu/h	20 kW	208 V	3	83.8 A	90 A	1.4,5,6,7
AHU	02	STANDARD HEAT PUMP AIR HANDLING UNIT	TEMPMASTER	WN048C00A2ABQAA5A1	1,750 CFM	150 CFM	0.83 in-wg	(1) @ 1.0	(1) @ 0.83	4.0 ton	48,500 Btu/h	35,300 Btu/h	77 °F	64 °F	57 °F	54 °F	HEAT PUMP + AUX ELEC	26,000 Btu/h	20 kW	208 V	3	81.5 A	90 A	2.4,5,6,7
AHU	03	HIGH OUTDOOR AIR HEAT PUMP AIR HANDLING UNIT	AAON	RQ-005-A-A-8-FJB02-A03MB	1,200 CFM	540 CFM	1.05 in-wg	(1) @ 1.0	(1) @ 0.65	5.0 ton	57,400 Btu/h	39,900 Btu/h	86 °F	70 °F	53 °F	53 °F	HEAT PUMP + AUX ELEC	33,900 Btu/h	15 kW	208 V	3	87.0 A	90 A	3.4,5,6,7
AHU	04	HIGH OUTDOOR AIR HEAT PUMP AIR HANDLING UNIT	AAON	RQ-005-A-A-8-FJB02-A03MB	1,200 CFM	530 CFM	1.05 in-wg	(1) @ 1.0	(1) @ 0.65	5.0 ton	57,200 Btu/h	39,800 Btu/h	86 °F	70 °F	53 °F	53 °F	HEAT PUMP + AUX ELEC	33,900 Btu/h	15 kW	208 V	3	87.0 A	90 A	3.4,5,6,7
AHU	05	HIGH OUTDOOR AIR HEAT PUMP AIR HANDLING UNIT	AAON	RNA-013-B-A-8-GJB0B-A05NA	3,000 CFM	1,400 CFM	1.05 in-wg	(1) @ 3.0	(1) @ 1.46	13.0 ton	154,300 Btu/h	105,400 Btu/h	87 °F	70 °F	52 °F	52 °F	HEAT PUMP + AUX ELEC	83,100 Btu/h	45 kW	208 V	3	170.0 A	170 A	3.4,5,6,7

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- PROVIDE TWO-STAGE R-454B HEAT PUMP WITH TWO-STAGE ELECTRIC AUXILLIARY HEAT, SUPPLY FAN VFD, AND DUAL ENTHALPY ECONOMIZER.
- PROVIDE SINGLE-STAGE R-454B HEAT PUMP WITH TWO-STAGE ELECTRIC AUXILLIARY HEAT AND SUPPLY FAN VFD.
- PROVIDE TWO-STAGE R-454B HEAT PUMP WITH MODULATING ELECTRIC AUXILLIARY HEAT, ECM SUPPLY FAN, AND DUAL ENTHALPY ECONOMIZER.
- PROVIDE SEISMICALLY CERTIFIED AND WIND RATED DOWNFLOW EQUIPMENT CURB SYSTEMS.
- PROVIDE WITH FIELD POWERED CONVENIENCE OUTLET, INTEGRAL DISCONNECT, DOUBLE WALL CONSTRUCTION, AND STAINLESS STEEL DRAIN PAN.
- PROVIDE MERV 13- 2" PLEATED FILTERS. PROVIDE EXTRA SET OF FILTERS PER UNIT TO OWNER UPON PROJECT COMPLETION.
- PROVIDE WITH BAROMETRIC RELIEF DAMPER.

HVAC -- DUCTLESS SPLIT CONDENSER SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	ELECTRICAL DATA			
TYPE	MARK				VOLTAGE	PHASE	MCA	MOCP
DSCU	01	24 MBH INVERTER HEAT PUMP	SAMSUNG	AC024DXSCCG/AA	208 V	1	26.7 A	30.0 A

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- OUTDOOR UNIT SHALL BE PROVIDED WITH DISCONNECT SWITCH, SEE ELECTRICAL.
- CONDENSER SHALL BE PROVIDED WITH LOW AMBIENT COOLING.
- CONDENSING UNIT AND INDOOR UNIT SHALL BE PROVIDED FROM SAME MANUFACTURER, AND BE FULLY COMPATIBLE WITH EACH OTHER.
- PROVIDE BASIS OF DESIGN EQUIPMENT OR APPROVED ALTERNATE.

HVAC -- DUCTLESS SPLIT FAN COIL SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	NOMINAL CAPACITY		ELECTRICAL DATA	
TYPE	MARK				TOTAL COOLING	HEATING	VOLTAGE	PHASE
DSFC	01	WALL HUNG FAN COIL	SAMSUNG	AC024DNADCG/AA	24,000 Btu/h	27,000 Btu/h	208 V	1

- 1
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- 3
- 4
- INDOOR UNIT SHALL BE POWERED THROUGH CONDENSER
- ROUTE CONDENSATE DRAIN FULL SIZE AND DISCHARGE TO JANITOR MOPSINK PER MANUFACTURER'S RECOMMENDATION
- CONDENSING UNIT AND INDOOR UNIT SHALL BE PROVIDED FROM SAME MANUFACTURER, AND BE FULLY COMPATIBLE WITH EACH OTHER.
- PROVIDE BASIS OF DESIGN EQUIPMENT OR APPROVED ALTERNATE.

HVAC -- AIR TERMINAL SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	AIRFLOW DATA	INLET SIZE			FACE SIZE		MAX. NOISE CRITERIA	OPTIONS		
				MAX FLOW	DIAMETER	WIDTH	LENGTH	W	L		FACE STYLE	DAMPER STYLE	MATERIAL
S1	Titus	OMNI-06-1-12x12-26	ALUMINUM SQUARE PLAQUE DIFFUSER	180 CFM	6			12"	12"	25	PLAQUE	OPOSED BLADE	ALUMINUM
S2	Titus	OMNI-06-1-24x24-26	SQUARE PLAQUE DIFFUSER	215 CFM	6			24"	24"	25	PLAQUE	OPOSED BLADE	STEEL
S3	Titus	OMNI-08-1-24x24-26	SQUARE PLAQUE DIFFUSER	350 CFM	8			24"	24"	25	PLAQUE	OPOSED BLADE	STEEL
S4	Titus	OMNI-10-1-24x24-26	SQUARE PLAQUE DIFFUSER	505 CFM	10			24"	24"	25	PLAQUE	OPOSED BLADE	STEEL
S5	Titus	S300FL	SPIRAL DUCT MOUNTED SUPPLY GRILLE	150 CFM		10"	3"	12"	5"	0	DOUBLE DEFLECTION BLADES	AIR SCOOP	ALUMINUM
S6	Titus	300FL	ADJUSTABLE DOUBLE DEFLECTION SIDEWALL SUPPLY GRILLE	840 CFM		18"	12"	20"	14"	25	DOUBLE DEFLECTION BLADES	OPOSED BLADE	ALUMINUM
S7	Titus	TBDI-80	INSULATED PLENUM SLOT DIFFUSER, 1- SLOT, 1" SLOT WIDTH	100 CFM	6			3"	24"	25	ADJUSTABLE GASKET TIPPED BLADE	INTEGRAL	STEEL
S8	Titus	TBDI-80	INSULATED PLENUM SLOT DIFFUSER, 2- SLOT, 1" SLOT WIDTH	200 CFM	8			5"	48"	25	ADJUSTABLE GASKET TIPPED BLADE	INTEGRAL	STEEL
R1	Titus	50F	EGGCRATE RETURN GRILLE	960 CFM		22"	10"	24"	12"	25	EGGCRATE	OPOSED BLADE	ALUMINUM
R2	Titus	50F	EGGCRATE RETURN GRILLE	2,200 CFM		22"	22"	24"	24"	25	EGGCRATE	OPOSED BLADE	ALUMINUM
R3	Titus	350FL	35° DEFLECTION SIDEWALL RETURN GRILLE	230 CFM		10"	6"	12"	8"	25	HORIZONTAL DEFLECTION BLADES	OPOSED BLADE	ALUMINUM
R4	Titus	350FL	35° DEFLECTION SIDEWALL RETURN GRILLE	810 CFM		36"	6"	38"	8"	25	HORIZONTAL DEFLECTION BLADES	OPOSED BLADE	ALUMINUM

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- CONTRACTOR SHALL PROVIDE ALL AIR DISTRIBUTION DEVICES WITH MANUFACTURER'S MOUNTING SYSTEM FOR CEILINGS ON WHICH DEVICE SHALL BE MOUNTED.
- CONTRACTOR SHALL SUBMIT MANUFACTURER'S COLOR OPTIONS TO ARCHITECT BEFORE ORDERING AIR DISTRIBUTION DEVICES.

HVAC -- ELECTRIC UNIT HEATER SCHEDULE

DESIGNATION		DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	ELECTRICAL DATA			COMMENTS
TYPE	MARK					VOLTAGE	PHASE	WATTAGE	
UH	01	ELECTRIC UNIT HEATER	QMARK	CWH1202DSAF	RECESSED MOUNT	120 V	1	0.5 kW	PROVIDE SHEDULED BASIS OF DESIGN EQUIPMENT OR APPROVED EQUAL WITH INTEGRAL THERMOSTAT. MOUNT 18" A.F.F.

HVAC -- EXHAUST FAN SCHEDULE

DESIGNATION		MANUFACTURER	MODEL	LOCATION		EXHAUST AIR CFM	EXTERNAL STATIC PRESSURE	ELECTRIC MOTOR DATA					SOUND LEVEL (SONES)
TYPE	MARK			ROOM	NUMBER			DRIVE	RPM	VOLTAGE	PHASE	MOTOR WATTS	
EF	01	GREENHECK	SP-A390	WOMENS RESTROOM	017	350 CFM	0.25 in-wg	DIRECT	1302	120 V	1	170 W	4.0
EF	02	GREENHECK	SP-A390	MENS RESTROOM	019	350 CFM	0.25 in-wg	DIRECT	1302	120 V	1	170 W	4.0
EF	03	GREENHECK	SP-B150	SINGLE RESTROOM	018	150 CFM	0.25 in-wg	DIRECT	1025	120 V	1	216 W	3.0

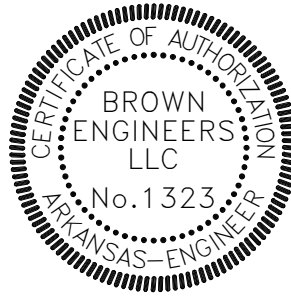
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- EXHAUST FANS SHALL BE PROVIDED WITH SOLID STATE SPEED CONTROLLER, DISCHARGE BACKDRAFT DAMPER AND DISCONNECT SWITCH.
- EXHAUST FANS SHALL BE PROVIDED WITH MANUFACTURER'S METAL GRILLE.
- EXHAUST FANS SHALL BE PROVIDED WITH MANUFACTURER'S ISOLATOR KIT.
- EXHAUST FANS SHALL BE SUPPORTED BY STRUCTURE BY MEANS OF ALL THREAD RODS AND MANUFACTURER'S MOUNTING BRACKETS.
- EXHAUST FANS SHALL BE INTERLOCKED WITH LIGHT SWITCH OF ROOM THE FAN SERVES.
- PROVIDE MANUFACTURER ROOF DISCHARGE ACCESSORY EQUAL TO GREENHECK RJ-6X9.
- PROVIDE SCHEDULED BASIS OF DESIGN EQUIPMENT OR APPROVED EQUAL.

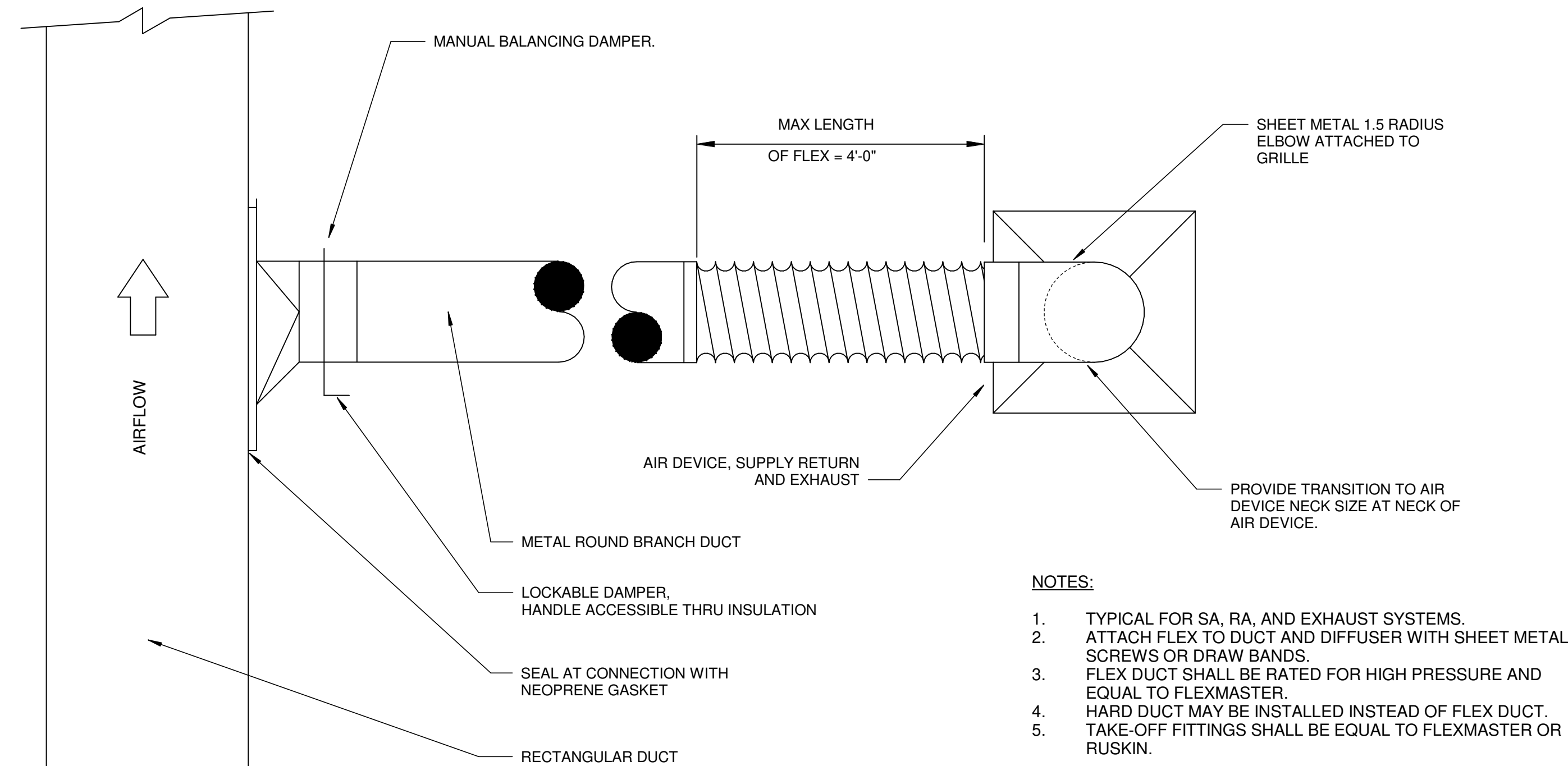
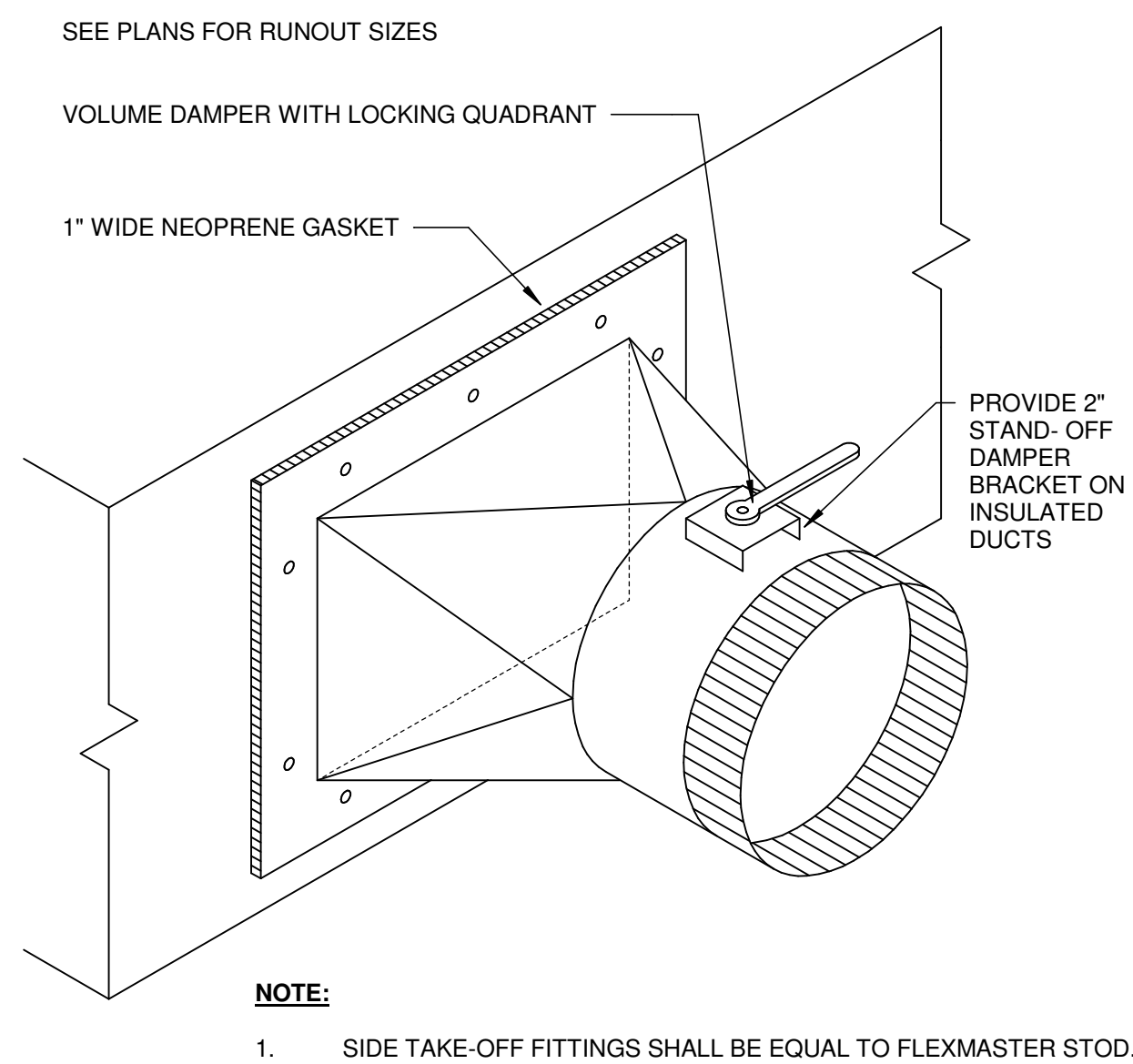
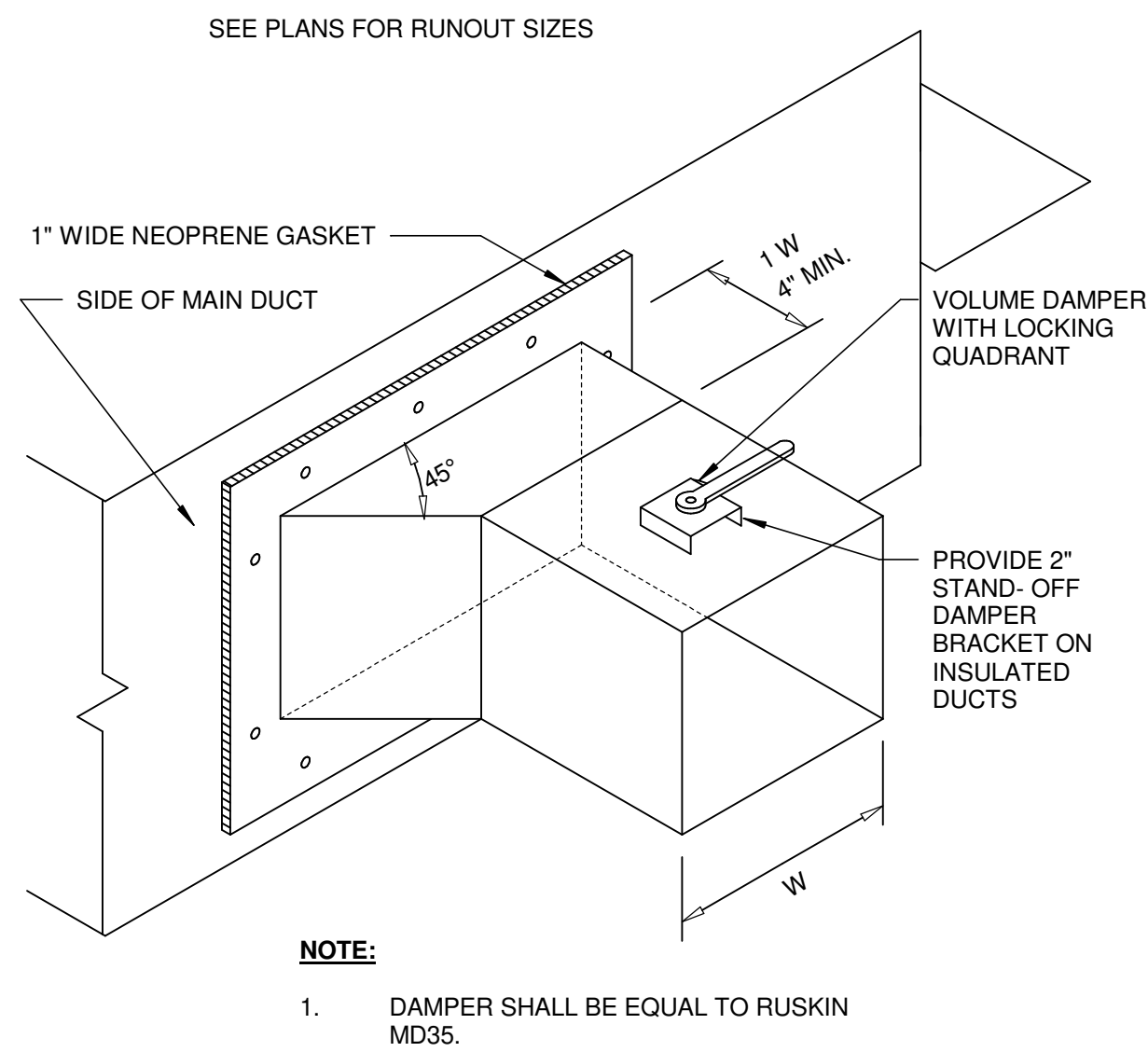


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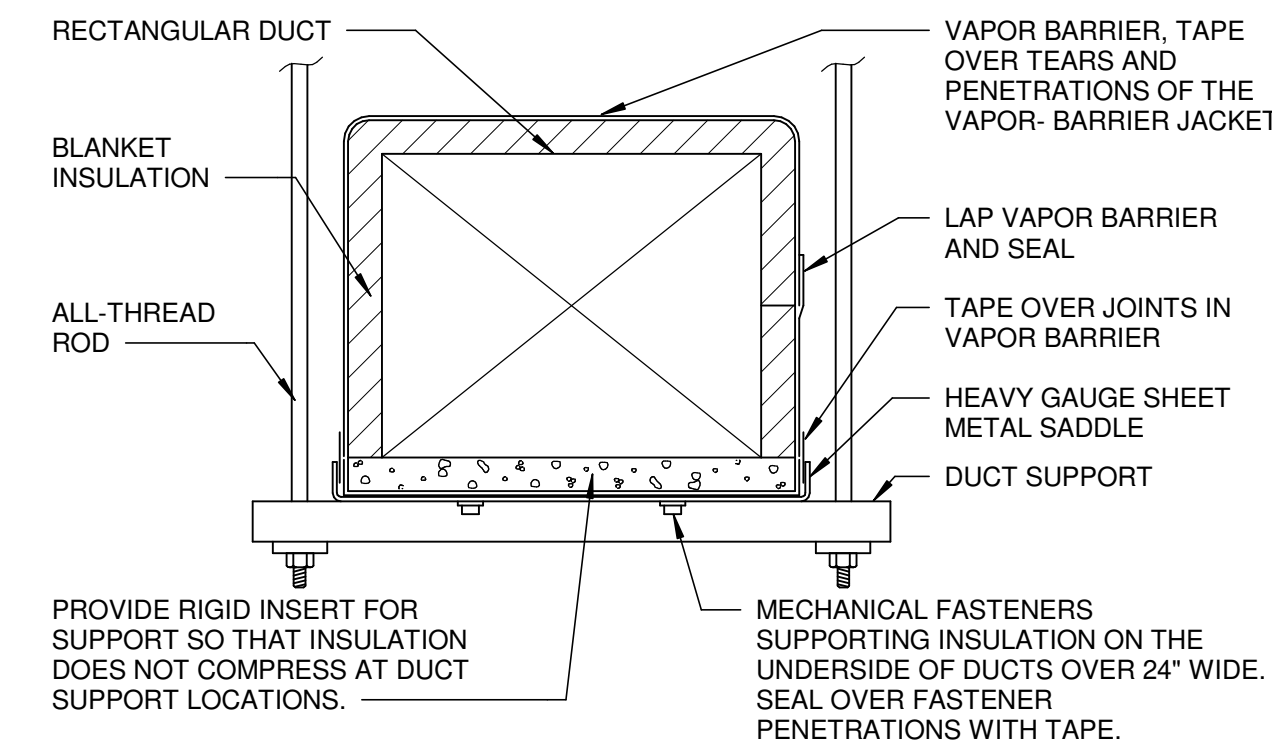
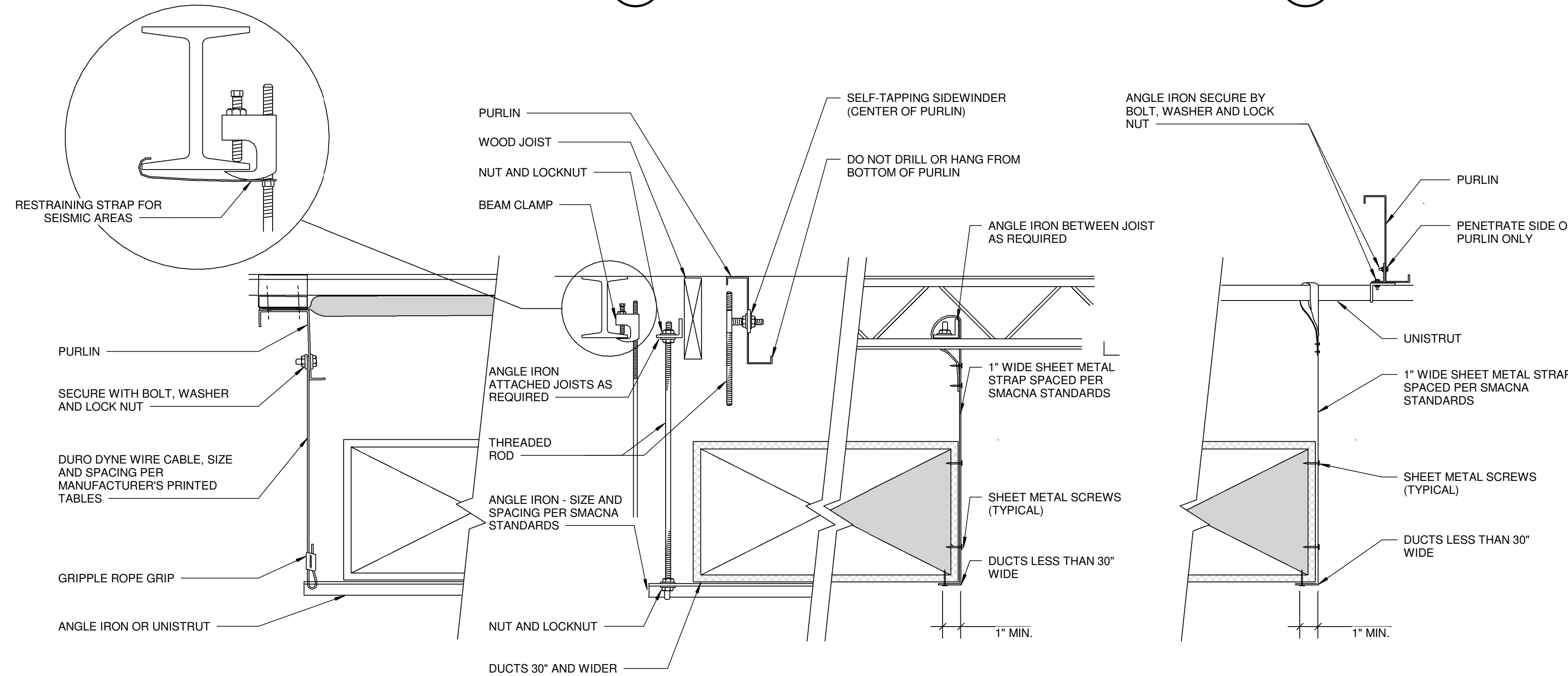




1 BRANCH DUCT FITTING-RECTANGULAR
NOT TO SCALE

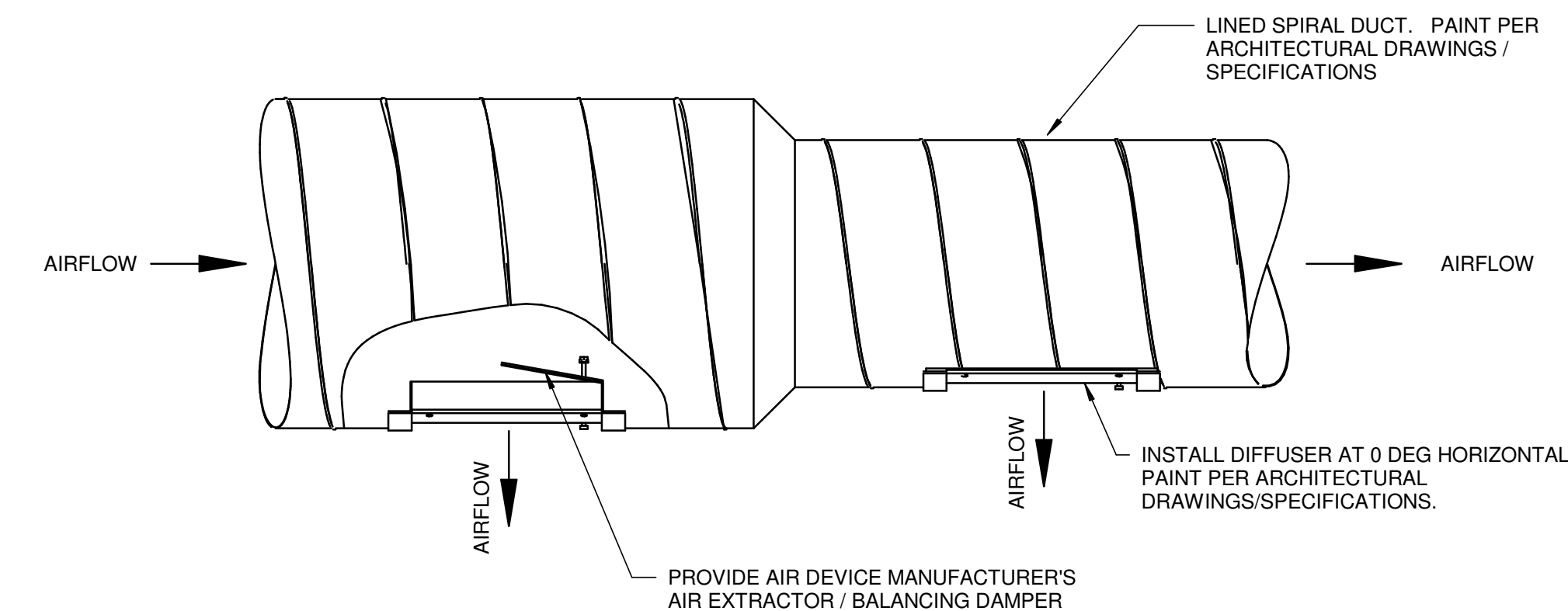
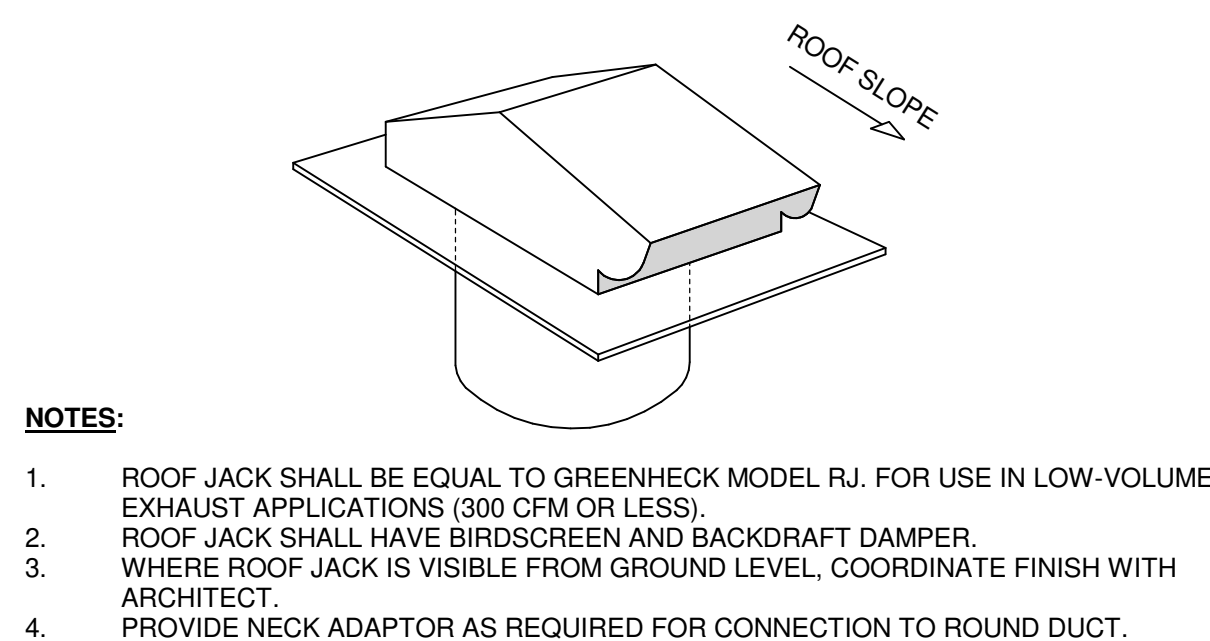
2 BRANCH DUCT FITTING-ROUND
NOT TO SCALE

3 BRANCH DUCT TAKE OFF
NOT TO SCALE



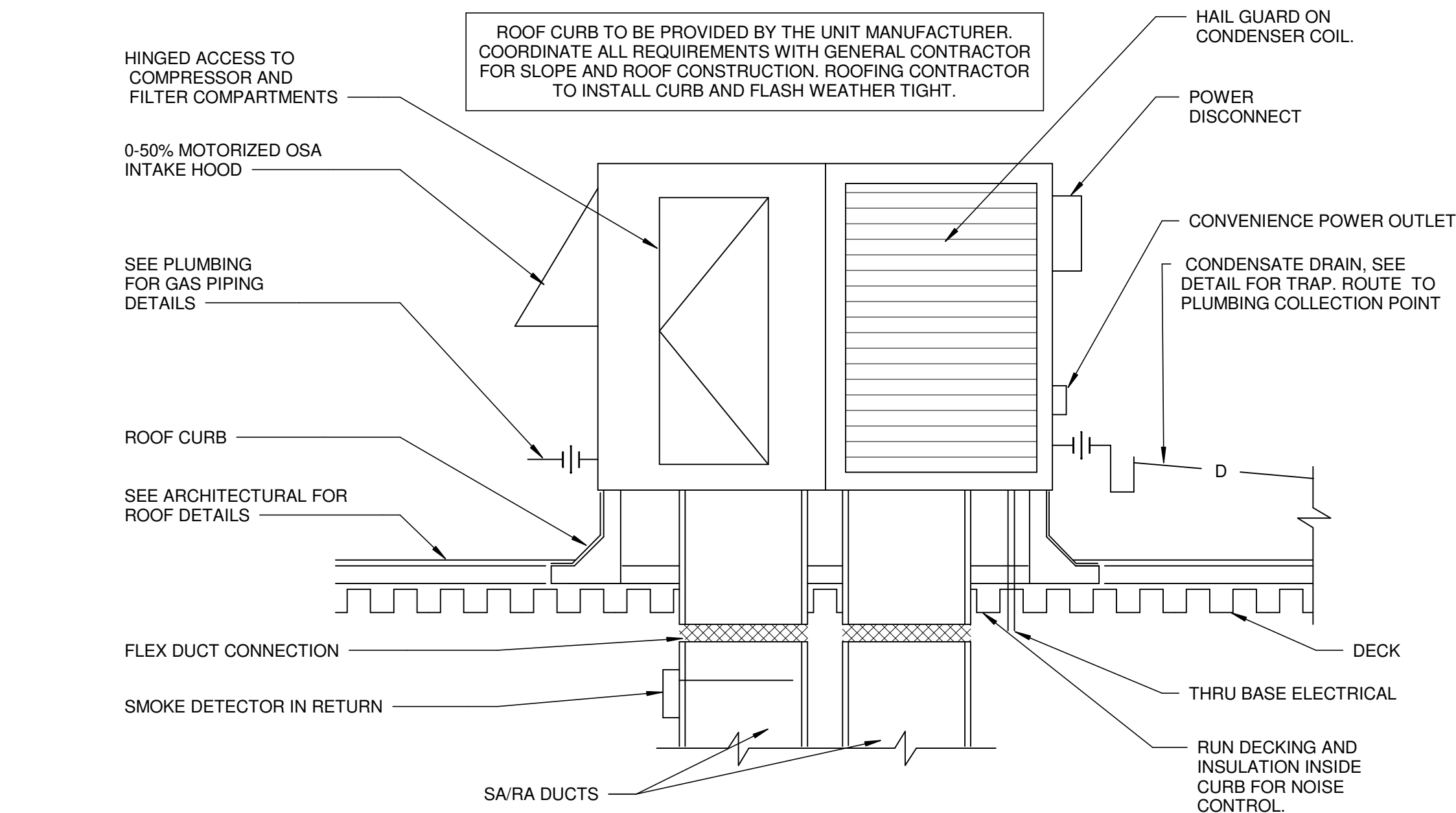
4 DUCT SUPPORT
NOT TO SCALE

5 INSULATION AT DUCT SUPPORT
NOT TO SCALE

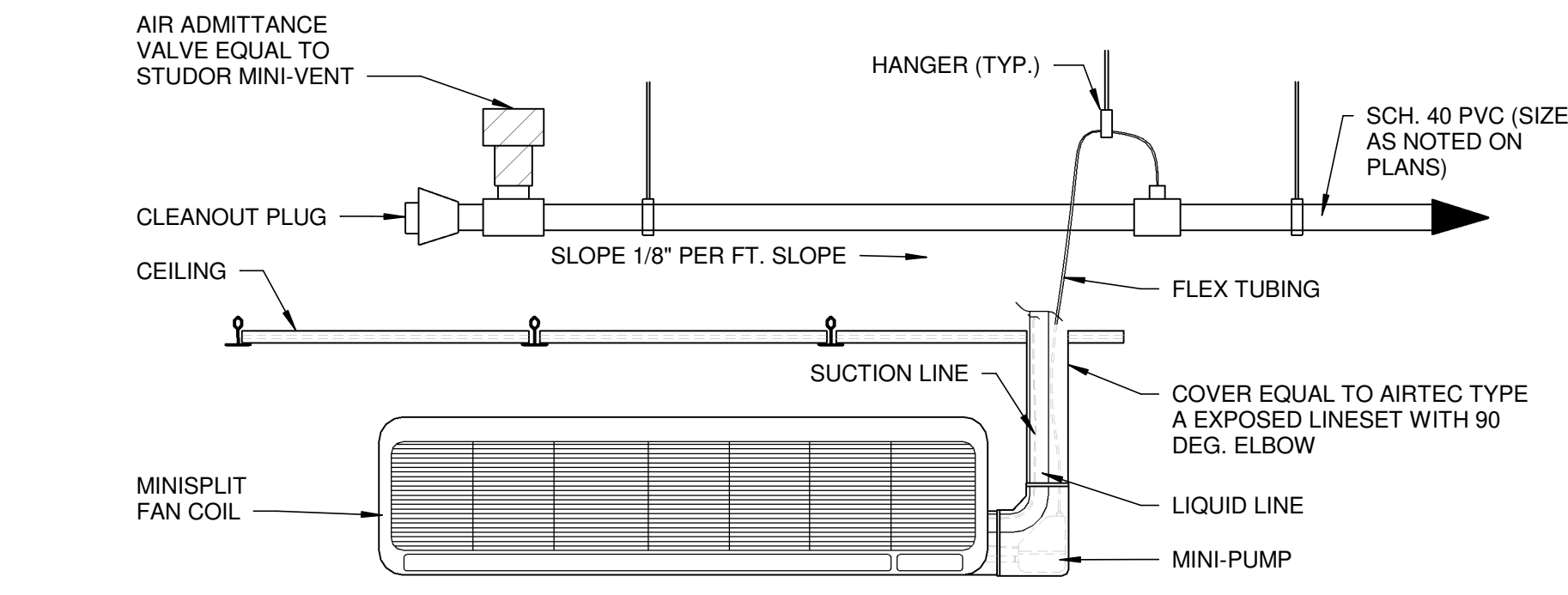


6 EXHAUST ROOF JACK
NOT TO SCALE

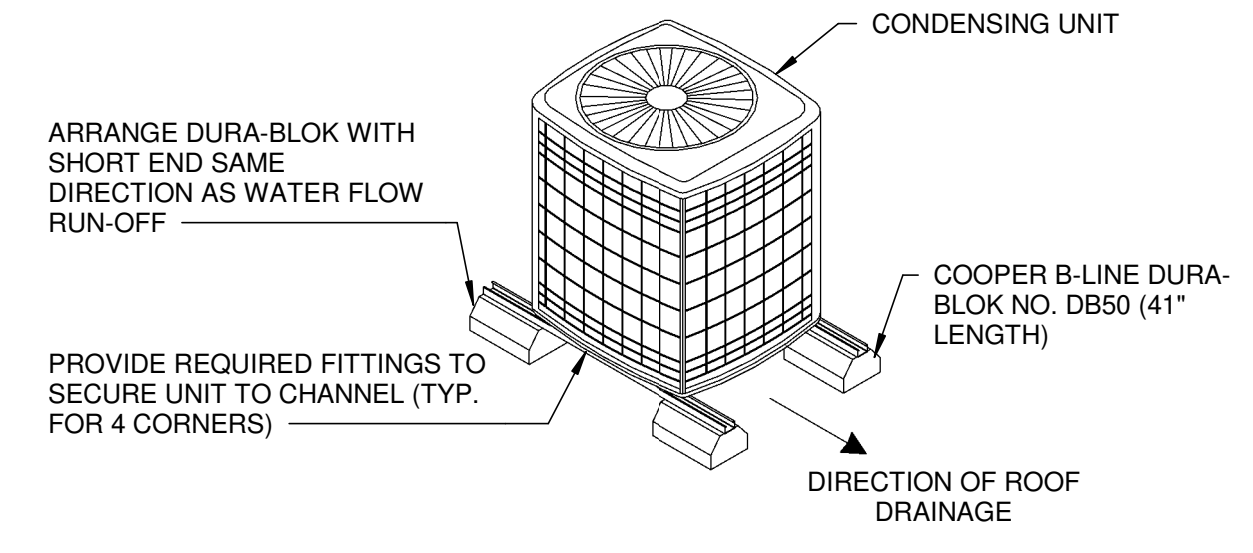
7 SPIRAL DUCT MOUNTED GRILLE
NOT TO SCALE



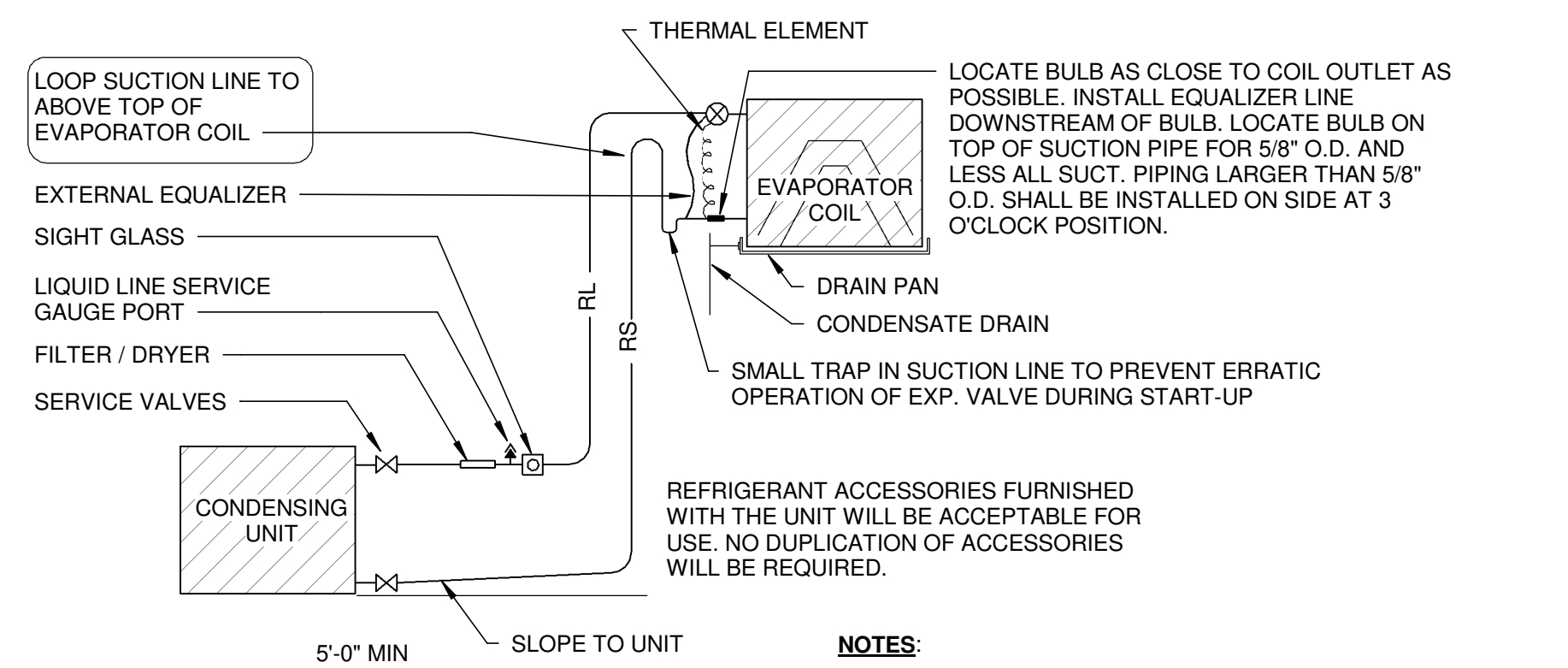
1 **PACKAGED UNIT - ROOF**
NOT TO SCALE



2 **DUCTLESS WALL MINISPLIT**
NOT TO SCALE



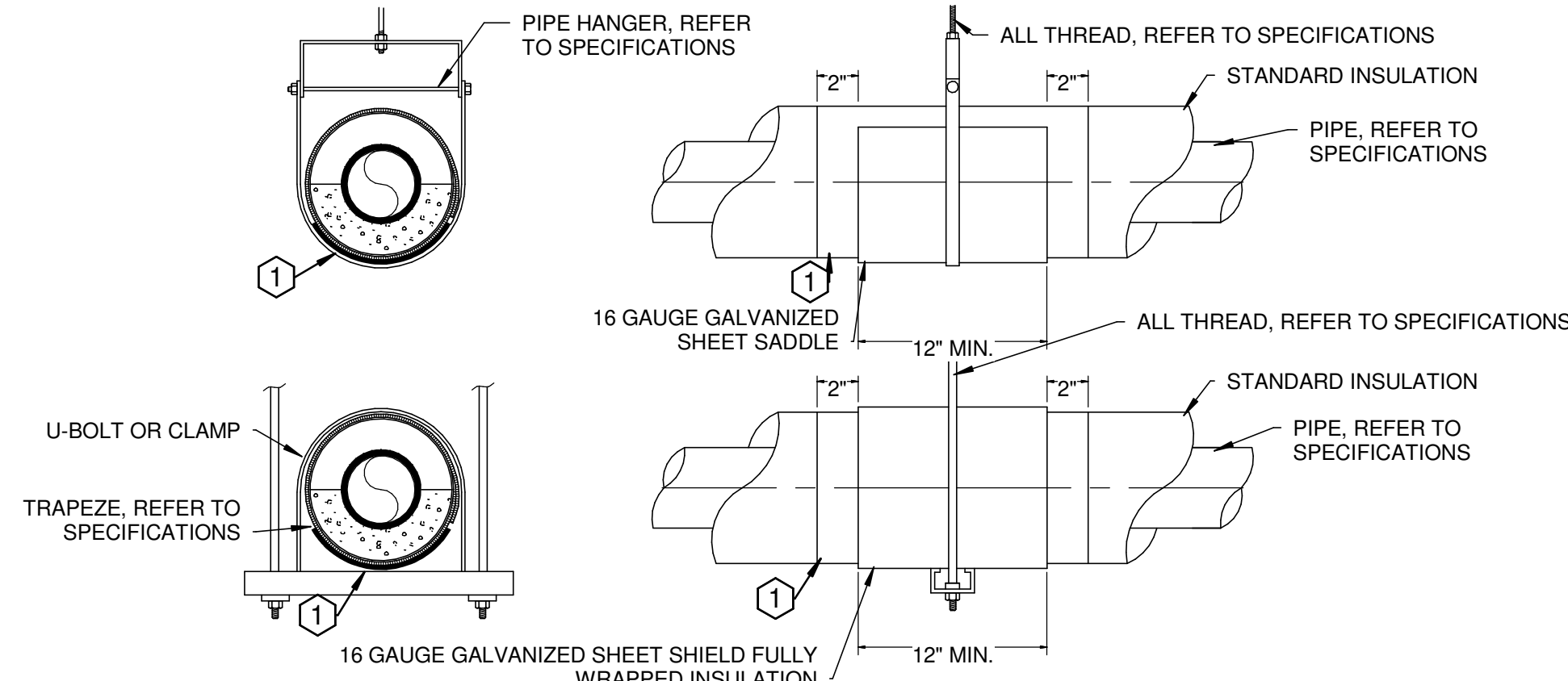
3 **CONDENSER MOUNTING**
NOT TO SCALE



NOTES:

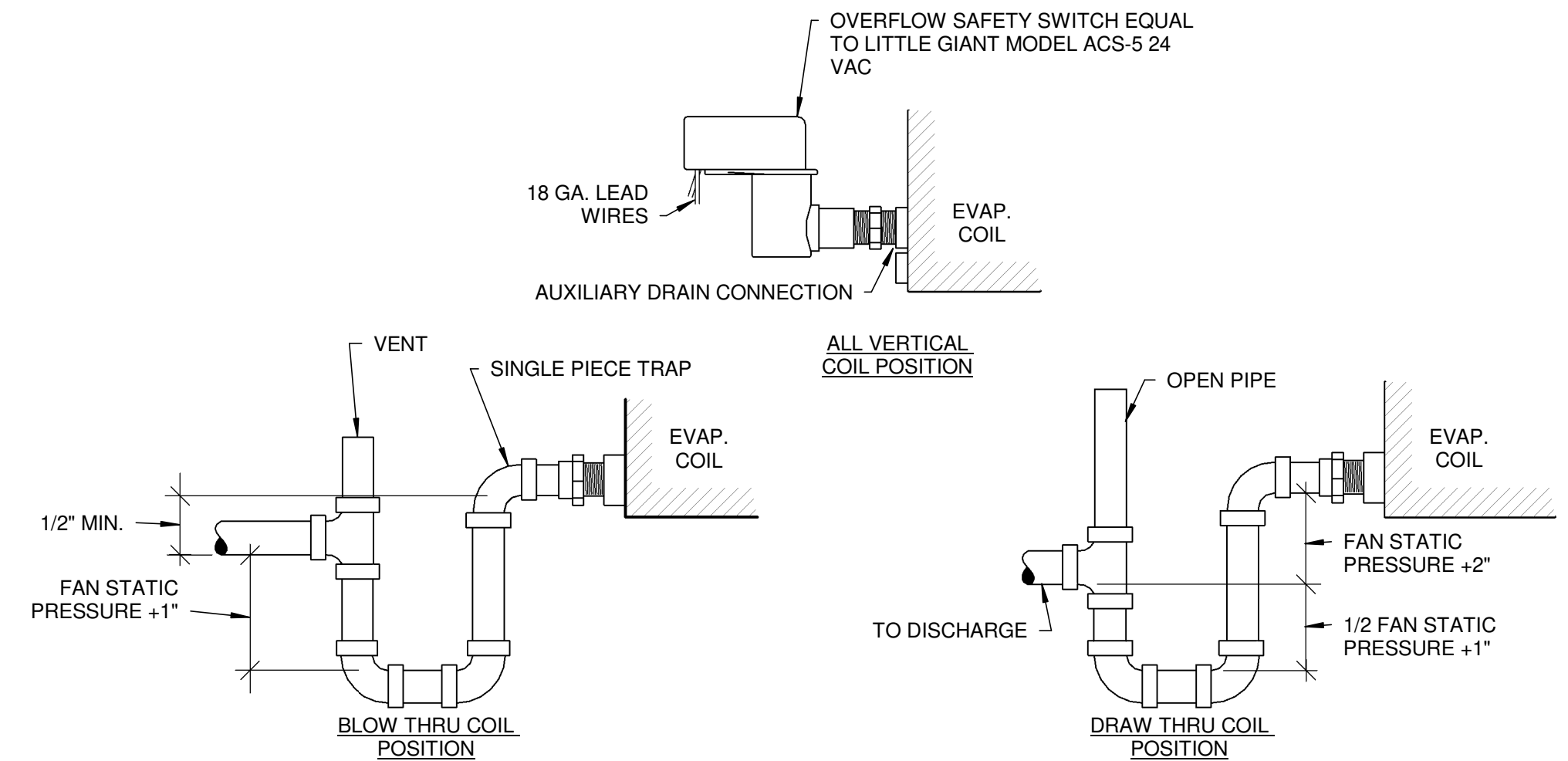
1. WRAP EXPANSION VALVE, BULB AND FITTINGS WITH ARMAFLEX INSULATION TAPE AND SECURE WITH BLACK CABLE TIES.
2. TRAP AND LOOP AT EVAPORATOR COIL IS NOT REQUIRED FOR UNITS WITH LIQUID LINE SOLENOID VALVES.
3. SUCTION LINES SHALL BE INSULATED. LIQUID LINES SHALL BE INSULATED ONLY ON DUCTLESS MINI-SPLITS.

4 **REFRIGERANT PIPING**
NOT TO SCALE



1. PROVIDE A SECTION OF HIGH COMPRESSION STRENGTH INSULATION AT EACH HANGER POINT; INSULATION SHALL EXTEND 2" BEYOND GALVANIZED SHIELD EACH WAY

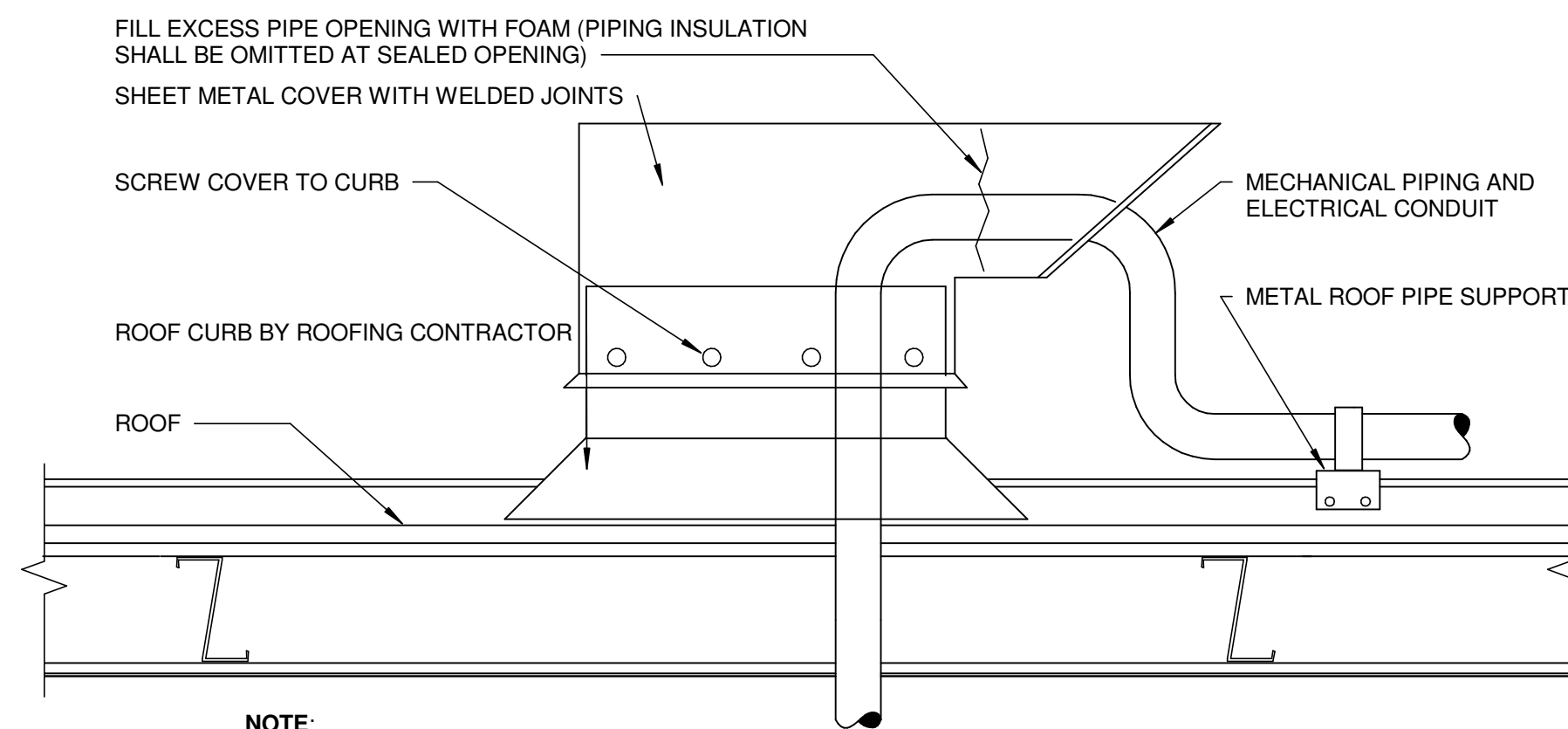
5 **INSULATED PIPE HANGER**
NOT TO SCALE



NOTES:

1. RUNNING TRAPS WILL NOT BE ACCEPTED.
2. INSTALL FACTORY FURNISHED TRAP WITH OUTSIDE AIR UNITS.
3. CONDENSATE DISCHARGE LOCATION SHALL MEET REQUIREMENTS OF ALL LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

6 **CONDENSATE TRAP**
NOT TO SCALE



NOTE:

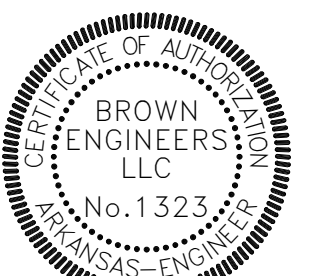
1. COORDINATE SIZE OF ELECTRICAL CONDUIT WITH ELECTRICAL CONTRACTOR.

7 **PIPE PENETRATION AT METAL ROOF**
NOT TO SCALE







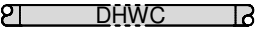


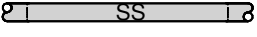


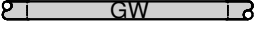


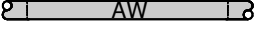
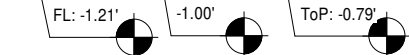

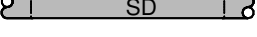



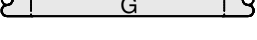
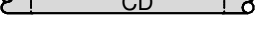
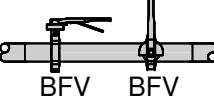

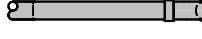
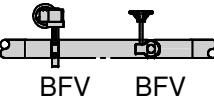







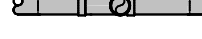











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PLUMBING LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION	ABBREVIATION OR SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER		FLEXIBLE PIPING		ABOVE FINISH FLOOR
	DOMESTIC HOT WATER		EXISTING PIPING TO REMAIN (refer to line designation)		ABOVE FINISH GRADE
	DOMESTIC HOT WATER RETURN		EXISTING TO BE REMOVED (back to point indicated)		FINISH FLOOR ELEVATION
	SANITARY SEWER		CONNECT TO EXISTING		PRESSURE REDUCING VALVE
	SANITARY - GREASE WASTE		BELOW GRADE PIPING (fine dash)		TOP OF PIPE
	SANITARY - ACID WASTE		PIPE ELEVATION CALLOUTS		PIPE PENETRATION (through floor/wall/etc)
	STORM DRAIN				DCW ROUGH-IN
	VENT				DHW ROUGH-IN
	NATURAL GAS				
	CONDENSATE DRAIN				
VALVING					
	BUTTERFLY VALVE (lever operator)		PIPE DOWN		PIPE DOWN
	BUTTERFLY VALVE (wheel operator)		PIPE UP		PIPE UP
	GATE VALVE		THREADED TEE DOWN		PIPE WYE DOWN
	CHECK VALVE		THREADED TEE UP		PIPE WYE UP
	PLUG VALVE		BRANCH - BOTTOM OF PIPE		BRANCH - BOTTOM OF PIPE
	STRAINER (Y-TYPE)		BRANCH - TOP OF PIPE		BRANCH - TOP OF PIPE
	BALL VALVE		90 DEGREE ELBOW		ELBOW

* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

SEISMIC DESIGN NOTES:

- BUILDING RISK CATEGORY: **CATEGORY II**
- SEISMIC DESIGN CATEGORY: **D**
- DISTRIBUTED PLUMBING SYSTEMS AND EQUIPMENT OF SUFFICIENT SIZE OR WEIGHT, AS DEFINED BY ASCE 7 CHAPTER 13, SHALL BE PROVIDED WITH SEISMIC SUPPORTS. WATER HEATERS OF ALL SIZES SHALL BE PROVIDED WITH SEISMIC RESTRAINT STRAP, SECURED TO STRUCTURE.
- PROVIDE FLEXIBLE CONNECTIONS BETWEEN PIPING SYSTEMS AND MECHANICAL EQUIPMENT.
- FINAL DETERMINATION OF SEISMIC DESIGN PARAMETER SHALL BE PER STRUCTURAL DOCUMENTS.

PLUMBING GENERAL NOTES:

- ALL PLUMBING WORK SHALL COMPLY WITH ALL LOCAL CODES, AUTHORITIES HAVING JURISDICTION, DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES ARE FOUND - THE MOST STRINGENT REQUIREMENT SHALL GOVERN WORK.
- ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING, OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. EQUIPMENT SCHEDULES SHALL TAKE PRECEDENCE OVER CONFLICTING DRAWING INFORMATION. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO COMPLETE PROJECT DOCUMENTS FOR COORDINATION WITH OTHER DISCIPLINES.
- EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO PROVIDE THE ITEM, REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.
- REFER TO PLUMBING SCHEDULES AND SPECIFICATIONS FOR BASIS OF DESIGN, ACCEPTABLE MANUFACTURERS, AND MODELS OF PLUMBING FIXTURES AND EQUIPMENT.
- PROVIDE CLEANOUTS IN ALL SANITARY LINES, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 100' AND AT EACH CHANGE IN DIRECTION GREATER THAN 45 DEGREES.
- PROVIDE A TWO-WAY CLEANOUT AT THE JUNCTION OF ALL BUILDING DRAINS AND BUILDING SEWERS.
- REFER TO SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- ALL SANITARY SEWER LINES 2 1/2" AND SMALLER SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT. ALL SANITARY LINES 3" AND LARGER SHALL HAVE A MINIMUM SLOPE OF 1/8" PER FOOT. VERIFY EXISTING SANITARY LINE ELEVATIONS AND COORDINATE INSTALLATION TO ASSURE PROPER FLOW. ALL GREASE WASTE LINES, REGARDLESS OF SIZE, SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.
- SEAL ALL PIPE PENETRATIONS THROUGH WALLS, ROOF, AND FLOOR AIR AND WATER TIGHT.
- ALL FLOOR DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM UNLESS NOTED OTHERWISE. PROVIDE A TRAP GUARD EQUAL TO PROSET OR SURE SEAL SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS FOR ALL FLOOR DRAINS.
- ALL PIPE DROPS FROM CEILING PLENUM TO BELOW FLOOR SHALL BE MADE IN FURR-OUTS AT COLUMNS, IN WEBB OF BEAMS AT COLUMNS, OR IN WALLS UNLESS SHOWN OTHERWISE.
- ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS. ALL EXPOSED PLUMBING TRIM SHALL BE CHROME PLATED.
- PROVIDE TIGHT-FITTED MOLDED PLASTIC INSULATION AT ALL EXPOSED WATER AND DRAIN PIPING FOR ADA FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS. FINISH SHALL BE WHITE.
- ALL DOMESTIC WATER SHALL BE ROUTED ABOVE CEILING. ALL DOMESTIC WATER ROUTED IN EXTERIOR WALLS SHALL BE INSTALLED ON CONDITIONED SIDE OF ROOM INSULATION.
- MAINTAIN A MINIMUM OF 10'-0" BETWEEN ALL HVAC FRESH AIR INTAKES AND PLUMBING VENTS. COORDINATE WITH MECHANICAL BEFORE INSTALLATION OF VTRs.
- CONTRACTOR SHALL VISIT SITE AND VERIFY CONDITIONS PRIOR TO BIDDING.
- CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UTILITIES AND INVERTS PRIOR TO ROUTING SERVICES. CONTRACTOR SHALL COORDINATE ALL SANITARY SEWER, FIRE, GAS AND DOMESTIC WATER LINES WITH EXISTING UTILITIES AND WITH CIVIL DRAWINGS. SEE CIVIL DRAWINGS FOR CONTINUATION OF ALL UTILITY LINES.
- CONTRACTOR SHALL PAY ALL UTILITY FEES AND CHARGES IN THE CONTRACT.
- PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTORS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROVIDE FOR PROPER OPERATION OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
- FIRE STOP ALL PIPE PENETRATIONS THROUGH RATED WALLS. REFER TO SPECIFICATIONS.
- PIPING SHALL NOT BE ROUTED OVER ELECTRICAL ROOMS, COMPUTER ROOMS, ELECTRICAL PANELS, OR ELECTRICAL EQUIPMENT UNLESS OTHERWISE NOTED.
- PROVIDE LEAD-FREE PRESSURE REDUCING VALVE AT DOMESTIC ENTRANCE TO PROVIDE ADEQUATE PRESSURE AT ALL OUTLETS IN ACCORDANCE WITH THE SYSTEM REQUIREMENTS.
- EACH FIXTURE GROUP OR BATTERY OF FIXTURES SHALL BE PROVIDED WITH A SHUTOFF VALVE IN THE DOMESTIC HOT AND COLD WATER SUPPLY LINES ABOVE CEILING. VALVES SHALL BE ACCESSIBLE FROM ROOM BELOW.
- PAINT EXPOSED PIPING AND PIPE INSULATION. COORDINATE WITH OWNER FOR FINAL COLOR.
- ALL UNDER FLOOR WATER PIPING SHALL BE PROVIDED WITH A POLYETHYLENE SLEEVE. EXTEND SLEEVE UP THROUGH FLOOR SLAB AND SEAL AIR AND WATER TIGHT.
- PLASTIC PIPE IS PROHIBITED IN RETURN AIR PLENUMS. ALL PIPING AND PIPE CONNECTIONS IN RETURN AIR PLENUMS SHALL BE PLENUM RATED.
- PIPING THROUGH FOUNDATION WALLS AND FOOTINGS SHALL BE SLEEVED AS PER STRUCTURAL DETAILS.
- ALL PIPE CONNECTIONS BETWEEN DISSIMILAR METALS SHALL BE MADE THROUGH DIELECTRIC UNIONS.
- ALL PLUMBING COMPONENTS WITH ELECTRICAL REQUIREMENTS SHALL BE INSTALLED WITH THE ELECTRICAL INFRASTRUCTURE NECESSARY TO PROVIDE A FULLY FUNCTIONING SYSTEM. IF NOT SPECIFICALLY SHOWN ON ELECTRICAL SCHEDULE, PLUMBING FIXTURES REQUIRING ELECTRICAL SERVICE SHALL BE FED FROM BREAKER OF ADEQUATE CAPACITY.
- REFER TO PLUMBING SPECIFICATIONS FOR PIPE MATERIAL AND INSULATION REQUIREMENTS.
- EXACT LOCATION OF ALL EQUIPMENT AND PIPING SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER AND LIGHTING SHALL TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS.
- PROVIDE FABRICATED EXPANSION LOOP OR MANUFACTURED EXPANSION DEVICE ON ALL PIPING SYSTEMS CROSSING BUILDING EXPANSION JOINTS.
- WATER SUPPLY CONNECTIONS TO COFFEE MACHINES AND NONCARBONATED BEVERAGE DISPENSERS SHALL BE PROVIDED WITH A BACKFLOW PREVENTER OR AN AIR GAP.

PLUMBING -- FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	ACCESSORIES	FAUCETS & FITTINGS	STOPS	TRAPS	MOUNTING	BRANCH CONNECTIONS			REMARKS
									DCW	DHW	SS	
COTG	CLEAN OUT TO GRADE	ZURN	Z1400	-	-	-	-	AT GRADE			4"	SHALL BE PROVIDED WITH HEAVY DUTY TOP.
FD1	FLOOR DRAIN, SQUARE	ZURN	Z415-3IP-6S	TRAP GUARD	6" SQUARE N.B. STRAINER	-	P-TRAP	FLOOR			2"	STRAINER SHALL BE HEEL-PROOF
FD2	FLOOR DRAIN, ROUND	ZURN	Z415BZ-DP	TRAP GUARD	5" ROUND STRAINER (POLISHED)	-	P-TRAP	FLOOR			2"	
FPWH	EXPOSED WALL HYDRANT - EXTERIOR	ZURN	Z1321XL	-	-	BALL VALVE	-	WALL	3/4"			SHALL BE FREEZE-PROOF, SELF-DRAINING, KEY OPERATED, AND ANTI-SIPHON.
FS	8x8 FLOOR SINK - 6" DEPTH	ZURN	ZN1910	PROSET TRAP GUARD	N.B. FRAME AND 1/2 GRATE	-	P-TRAP	FLOOR			4"	SHALL HAVE ACID-RESISTANT COATING
P1	WALL HUNG WATER CLOSET - ADA	ZURN	Z5616	WALL CARRIER; SEAT	Z6000AV (1.6GPF MANUAL FLUSH VALVE)	INTEGRAL	INTEGRAL	WALL	1"		4"	WALL CARRIER SHALL BE RATED FOR 500LB. MINIMUM.
P2	URINAL	ZURN	Z5755-U	WALL CARRIER	Z6003PL-EWS (0.5GPF MANUAL FLUSH VALVE)	INTEGRAL	INTEGRAL	WALL	3/4"		2"	
P3	LAVATORY - SQUARE UNDERMOUNT - ADA	KOHLER	K-5400	GRID DRAIN; HARDWIRED POWER CONVERTER	ZURN ZG6950-N-CWB (0.5GPM HARDWIRED SENSOR FAUCET)	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	UNDERMOUNT	1/2"	1/2"	1 1/2"	SHALL BE SUITABLE FOR ROLL-UNDER ADA CLEARANCES.
P4	SINK - SINGLE COMPARTMENT - 7.5" DEEP	JUST MFG.	US-1818-A	BASKET STRAINER; BADGER 5XP GARBAGE DISPOSAL	JPO-250 (FAUCET W/PULL DOWN SPRAY)	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	UNDERMOUNT	1/2"	1/2"	2"	SHALL BE SUITABLE FOR ROLL-UNDER ADA CLEARANCES.
P5	BI-LEVEL WATER COOLER	ELKAY	EZSTL8WSSK	BOTTLE FILLER	-	MCGUIRE COMMERCIAL	MCGUIRE COMMERCIAL	WALL	1/2"		2"	
P6	MOP SINK	ZURN	Z1996-24	MOP HANGER; HOSE AND HOSE BRACKET; STAINLESS STEEL SPLASH GUARD; GRID DRAIN	SERVICE FAUCET W/VACUUM BREAKER	INTEGRAL	CAST IRON	FLOOR	1/2"	1/2"	3"	
P7	SHOWER	CHICAGO FAUCETS	SH-TP1-01-000			INTEGRAL	-	WALL	1/2"	1/2"	2"	PROVIDE WITH THERMOSTATIC MIXING VALVE. SHOWER HEAD SHALL BE MOUNTED AT APPROXIMATLY 80" AFF.
P8	SHOWER - ADA	CHICAGO FAUCETS	SH-TP1-01-000	24" WALL MOUNT SLIDE BAR	SH-TP1-00-021 (2.5GPM HAND SPRAY)	INTEGRAL	-	WALL	1/2"	1/2"	2"	SHALL BE ADA COMPLIANT. PROVIDE WITH THERMOSTATIC MIXING VALVE. SHOWER HEAD SHALL BE MOUNTED AT APPROXIMATLY 80" AFF.
RH	ROOF HYDRANT	ZURN	Z1388	VACUUM BREAKER	-	-	-	ROOF	3/4"		1/2"	PROVIDE 1/2" DRAIN LINE DISCHARGING LOW ON EXTERIOR WALL.
WB	MINI-ICE MAKER WALL BOX - QTR TURN	GUY GRAY	MIB2HAAB	HAMMER ARRESTER	1/4 TURN VALVE	-	-	WALL	1/2"			
<div>1 ALL FIXTURES SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION.</div> <div>2 CONTRACTOR IS RESPONSIBLE FOR COORDINATING FAUCET SPACING AND STYLE WITH MOUNTING HOLES IN FIXTURE.</div> <div>3 ALL FIXTURES WITH HOT WATER FEEDS SHALL BE PROVIDED WITH THERMOSTATIC MIXING VALVE INSTALLED AS PER MANUFACTURER'S RECOMMENDATION. HANDWASH FIXTURES SHALL HAVE TMVs SET TO 110°F.</div> <div>4 CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN COMPLIANCE WITH ALL APPLICABLE CODES AND ALL AUTHORITIES HAVING JURISDICTION.</div>												

PLUMBING -- WATER HEATER SCHEDULE

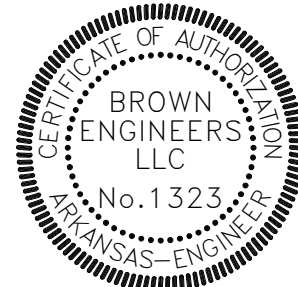
TAG	MARK	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	TANK VOLUME	BRANCH CONNECTIONS		SYSTEM TEMPERATURES	DESIGN EWT	TANK STORAGE SETPOINT	DESIGN LWT	ELECTRICAL DATA			REMARKS
							DCW	DHW					VOLTAGE (V)	PHASE	WATTAGE	
WH	1	COMMERCIAL ELECTRIC WATER HEATER	A.O. SMITH	DRE-80	FLOOR STAND	80 gal	3/4"	3/4"	50 °F		140 °F	120 °F	208 V	3	12.3 kW	PROVIDE WITH DIGITAL MIXING VALVE, REFER TO WATER HEATER DETAIL.
<div>1 PROVIDE WATER HEATER WITH EXPANSION TANK EQUAL TO WATTS PLT, SIZED FOR TOTAL SYSTEM VOLUME OF 60gal. SUPPORT TANK FROM MOUNTING BRACKET EQUAL TO HOLD-RITE 'QUICKSTRAP'.</div> <div>3 PROVIDE PRE-PIPED DIGITAL THERMOSTATIC MASTER MIXING VALVE EQUAL TO LEONARD PROTON SERIES. MIXING VALVE SHALL BE SIZED FOR PRESSURE DROP OF 5psi, 7.5gpm PEAK FLOW. SET SYSTEM TEMPERATURES PER WATER HEATER SCHEDULE.</div> <div>2 PROVIDE WATER HEATER WITH 16" FLOOR STAND EQUAL TO HOLD-RITE; STAND SHALL BE RATED FOR WATER HEATER WEIGHT WHEN FULL. PROVIDE GALVANIZED STEEL SEISMIC STRAP EQUAL TO HOLD-RITE QUICK STRAP. SECURE STRAP TO STRUCTURE.</div>																

PLUMBING -- PUMP SCHEDULE

DESIGNATION		MANUFACTURER	MODEL	FLOW	TOTAL HEAD	MOTOR RPM	VOLTAGE	PHASE	POWER	REMARKS
RP	1									
		BELL AND GOSSETT	NBF12U	2 GPM	11.0 ftH2O	2800	115 V	1	55 W	CHECK-TROL FLOW CONTROL FLANGE, AQUASTAT, AND TIMER.

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PLUMBING NOTES, SCHEDULES, AND LEGENDS

100% CONSTRUCTION DOCUMENTS

REVISIONS:

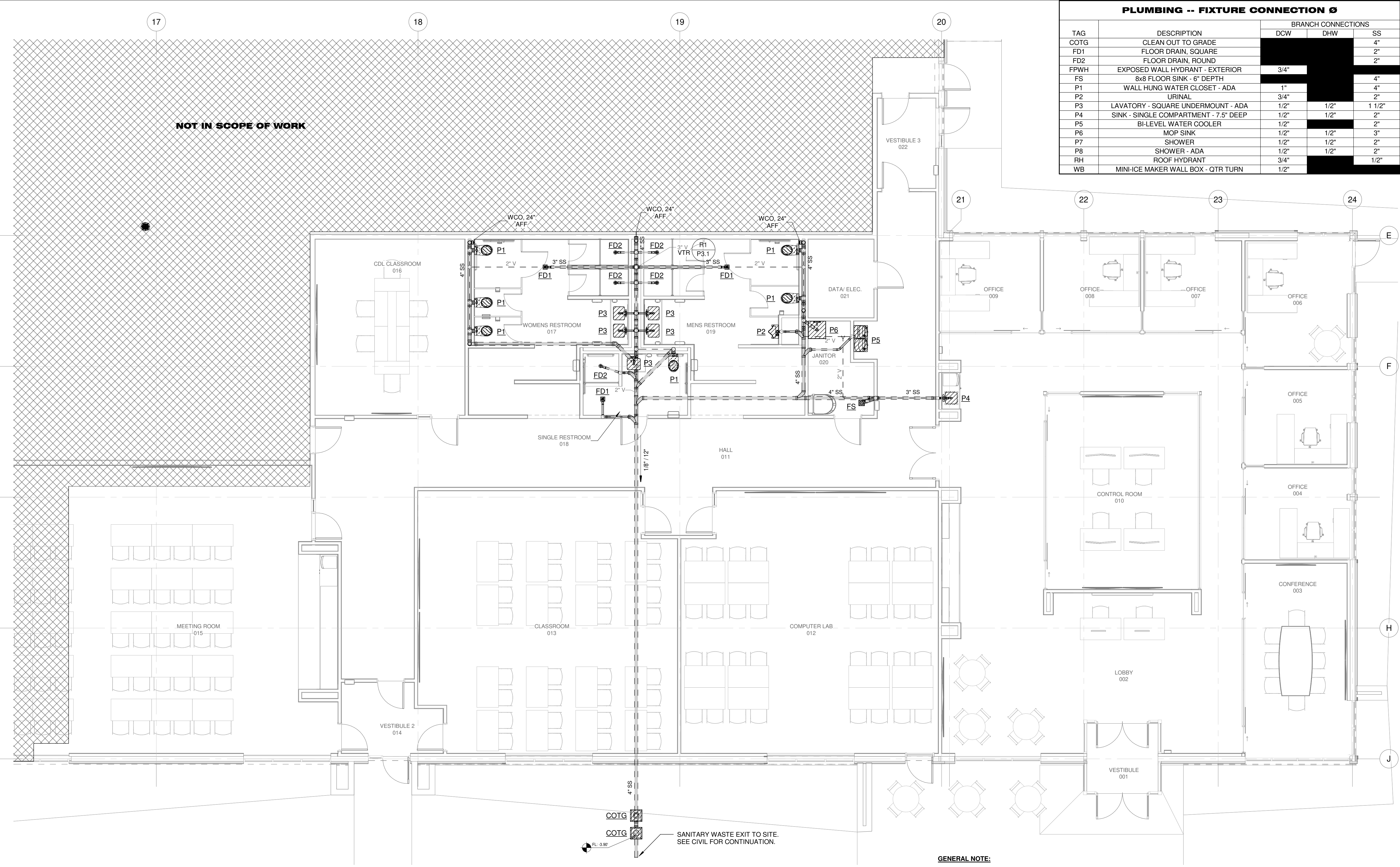
04.18.2025

P1.0

UACCB GATEWAY CENTER FARM

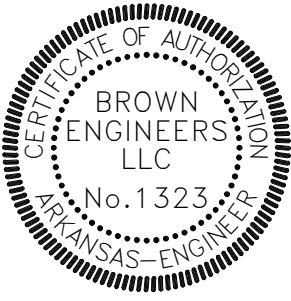
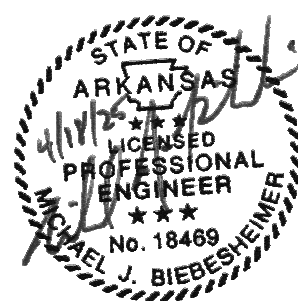
2210 E. Main Street, Batesville, AR

PLUMBING -- FIXTURE CONNECTION Ø				
TAG	DESCRIPTION	BRANCH CONNECTIONS		
		DCW	DHW	SS
COTG	CLEAN OUT TO GRADE			4"
FD1	FLOOR DRAIN, SQUARE			2"
FD2	FLOOR DRAIN, ROUND			2"
FPWH	EXPOSED WALL HYDRANT - EXTERIOR	3/4"		
FS	8x8 FLOOR SINK - 6" DEPTH			4"
P1	WALL HUNG WATER CLOSET - ADA	1"		
P2	URINAL	3/4"		
P3	LAVATORY - SQUARE UNDERMOUNT - ADA	1/2"	1/2"	1 1/2"
P4	SINK - SINGLE COMPARTMENT - 7.5" DEEP	1/2"	1/2"	2"
P5	BI-LEVEL WATER COOLER	1/2"		2"
P6	MOP SINK	1/2"	1/2"	3"
P7	SHOWER	1/2"		2"
P8	SHOWER - ADA	1/2"	1/2"	2"
RH	ROOF HYDRANT	3/4"		
WB	MINI-ICE MAKER WALL BOX - QTR TURN	1/2"		1/2"

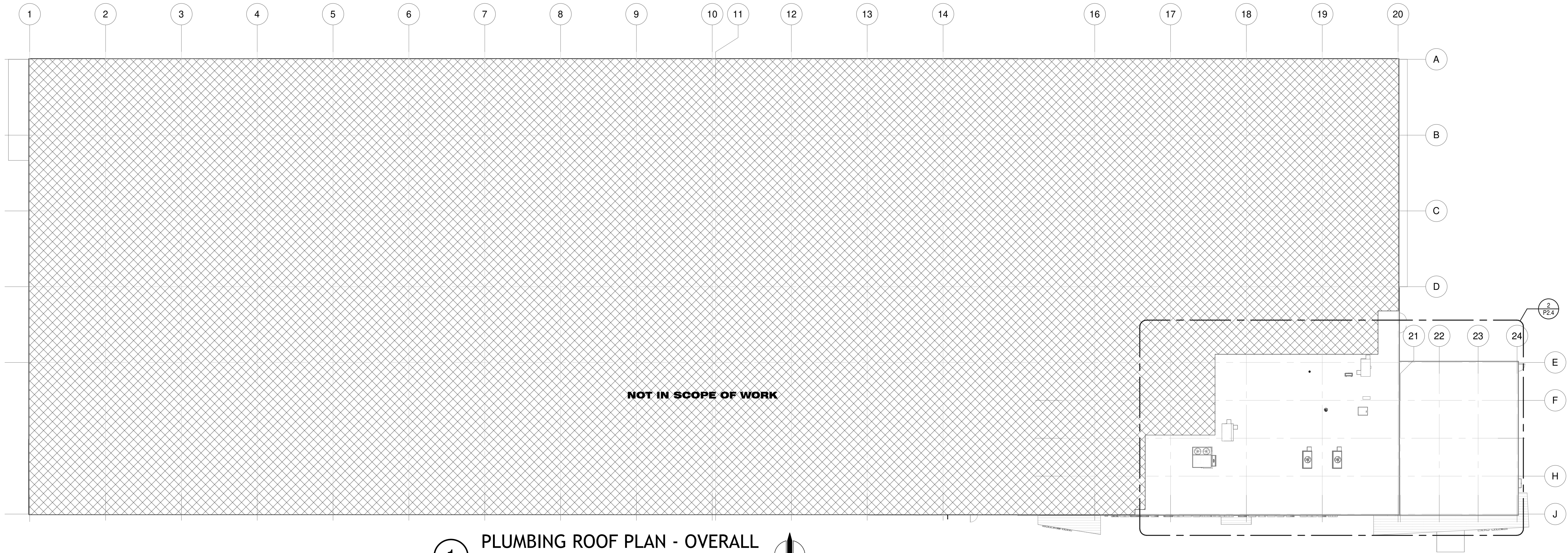


1 SANITARY WASTE PLAN
3/16" = 1'-0"

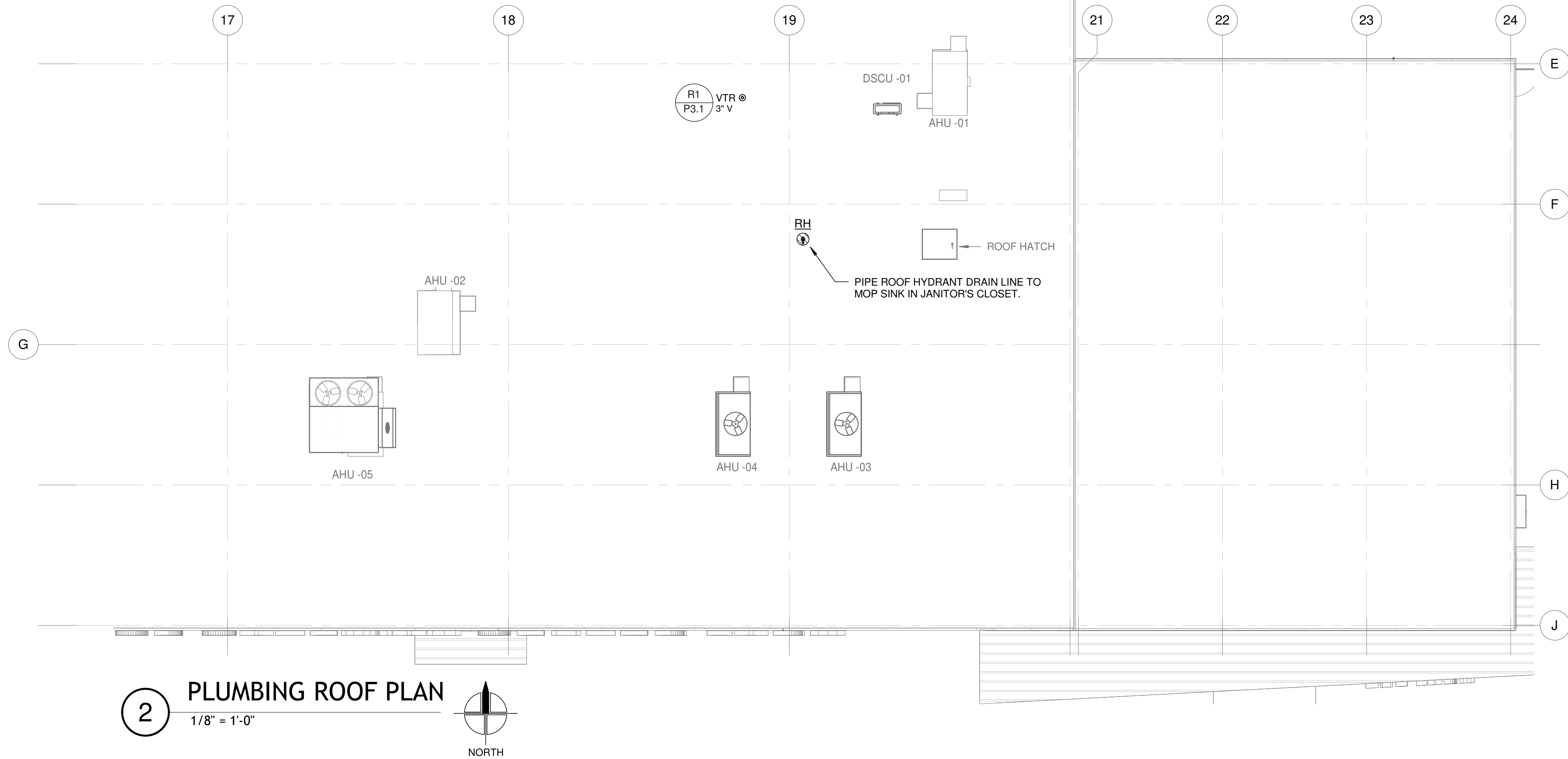
- GENERAL NOTE:
- SAW CUT AND TRENCH AS REQUIRED FOR INSTALLATION OF NEW SANITARY WASTE PIPING. SEE ARCHITECTURAL FOR NEW FLOOR FINISH TYPES.
 - REFER TO ARCHITECTURAL FOR ADA FIXTURE HEIGHTS.



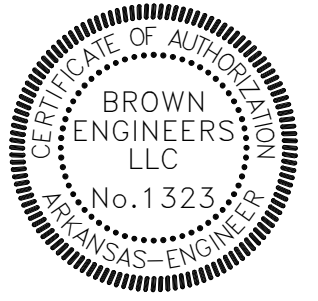
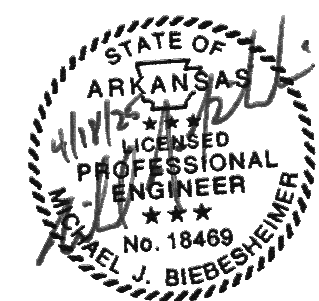
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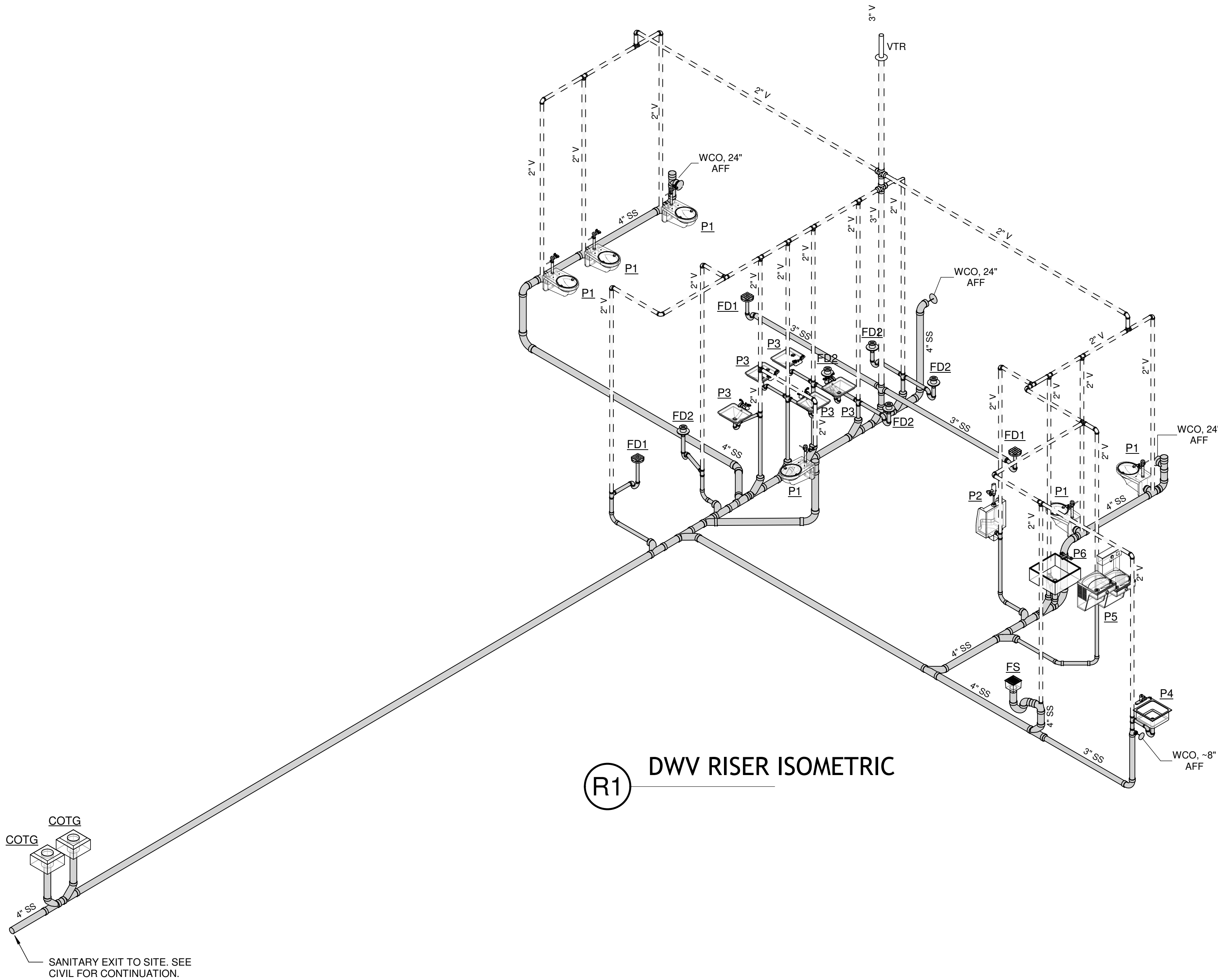
1 PLUMBING ROOF PLAN - OVERALL
3/64" = 1'-0"



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

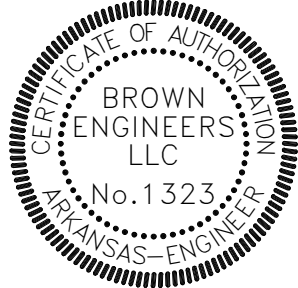


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PLUMBING -- FIXTURE CONNECTION Ø				
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FD2	FLOOR DRAIN, ROUND			2"
FPWH	EXPOSED WALL HYDRANT - EXTERIOR	3/4"		
FS	8x8 FLOOR SINK - 6" DEPTH			4"
P1	WALL HUNG WATER CLOSET - ADA	1"		
P2	URINAL	3/4"		2"
P3	LAVATORY - SQUARE UNDERMOUNT - ADA	1/2"	1/2"	1 1/2"
P4	SINK - SINGLE COMPARTMENT - 7.5' DEEP	1/2"	1/2"	2"
P5	BI-LEVEL WATER COOLER	1/2"		2"
P6	MOP SINK	1/2"	1/2"	3"
P7	SHOWER	1/2"	1/2"	2"
P8	SHOWER - ADA	1/2"	1/2"	2"
RH	ROOF HYDRANT	3/4"		1/2"
WB	MINI-ICE MAKER WALL BOX - QTR TURN	1/2"		

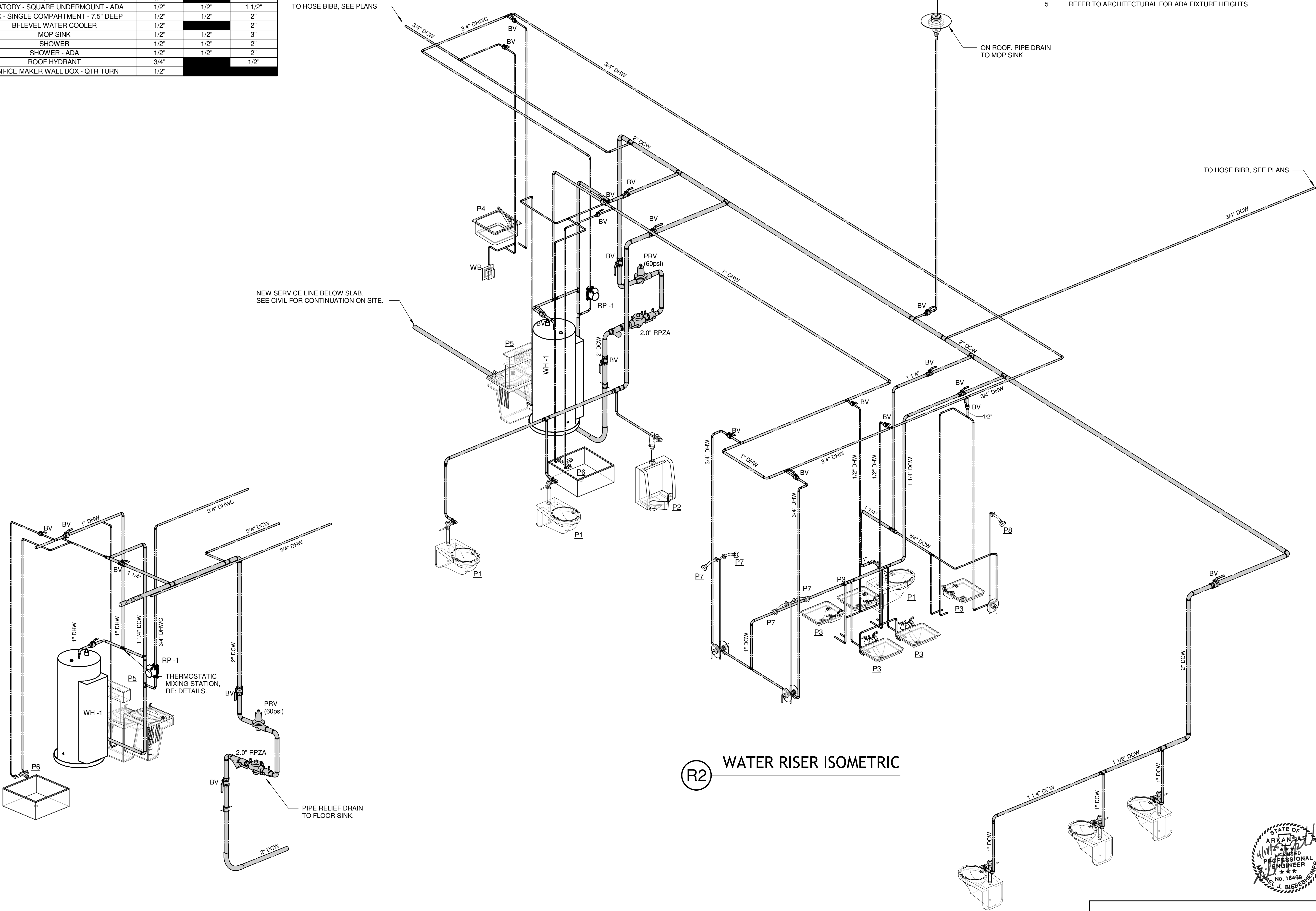
- SANITARY WASTE AND VENT RISER GENERAL NOTES:**
- SANITARY RISERS ARE DIAGRAMMATIC. RISERS INDICATE GENERAL PIPE ROUTES AND SIZES FOR SYSTEM. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS TO PROVIDE A FULLY FUNCTIONING SYSTEM.
 - SOME P-TRAPS FOR FIXTURES MAY NOT BE SHOWN FOR CLARITY OF RISER. ALL PLUMBING FIXTURES WITH SANITARY CONNECTIONS SHALL BE PROVIDED WITH EITHER INTEGRAL OR ANCILLARY P-TRAPS.
 - CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES IN ACCORDANCE WITH ALL APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION.
 - CLOSELY COORDINATE ALL VTR ROOF PENETRATIONS WITH ABOVE CEILING DUCTWORK AND STRUCTURE. COORDINATE WITH ARCHITECT FOR FINAL LOCATION.
 - REFER TO ARCHITECTURAL FOR ADA FIXTURE HEIGHTS.



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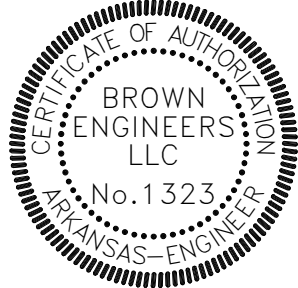
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P8	SHOWER - ADA	1/2"	1/2"	2"
RH	ROOF HYDRANT	3/4"		1/2"
WB	MINI-ICE MAKER WALL BOX - QTR TURN	1/2"		

- DOMESTIC WATER GENERAL NOTES:**
1. PROVIDE LEAD-FREE ISOLATION VALVE FOR EACH RESTROOM MAIN AND EACH BRANCH MAIN SERVING A BATTERY OF FIXTURES.
 2. PERMANENTLY LABEL ALL VALVES TO INDICATED AREA THAT VALVE SERVES.
 3. PROVIDE WATER HAMMER ARRESTOR AT END OF ALL DCW AND DHW BRANCH LINES BEFORE LAST FIXTURE. REFER TO DETAILS FOR WATER HAMMER ARRESTOR SCHEDULE. PROVIDE ACCESS TO WATER HAMMER ARRESTORS WHEN REQUIRED BY THE MANUFACTURER.
 4. ROUTE ALL DOMESTIC WATER LINES CONCEALED ABOVE CEILING. WHERE DOMESTIC WATER LINES MUST BE ROUTED EXPOSED, PAINT EXPOSED PIPE AND COORDINATE WITH ARCHITECT FOR COLOR.
 5. REFER TO ARCHITECTURAL FOR ADA FIXTURE HEIGHTS.

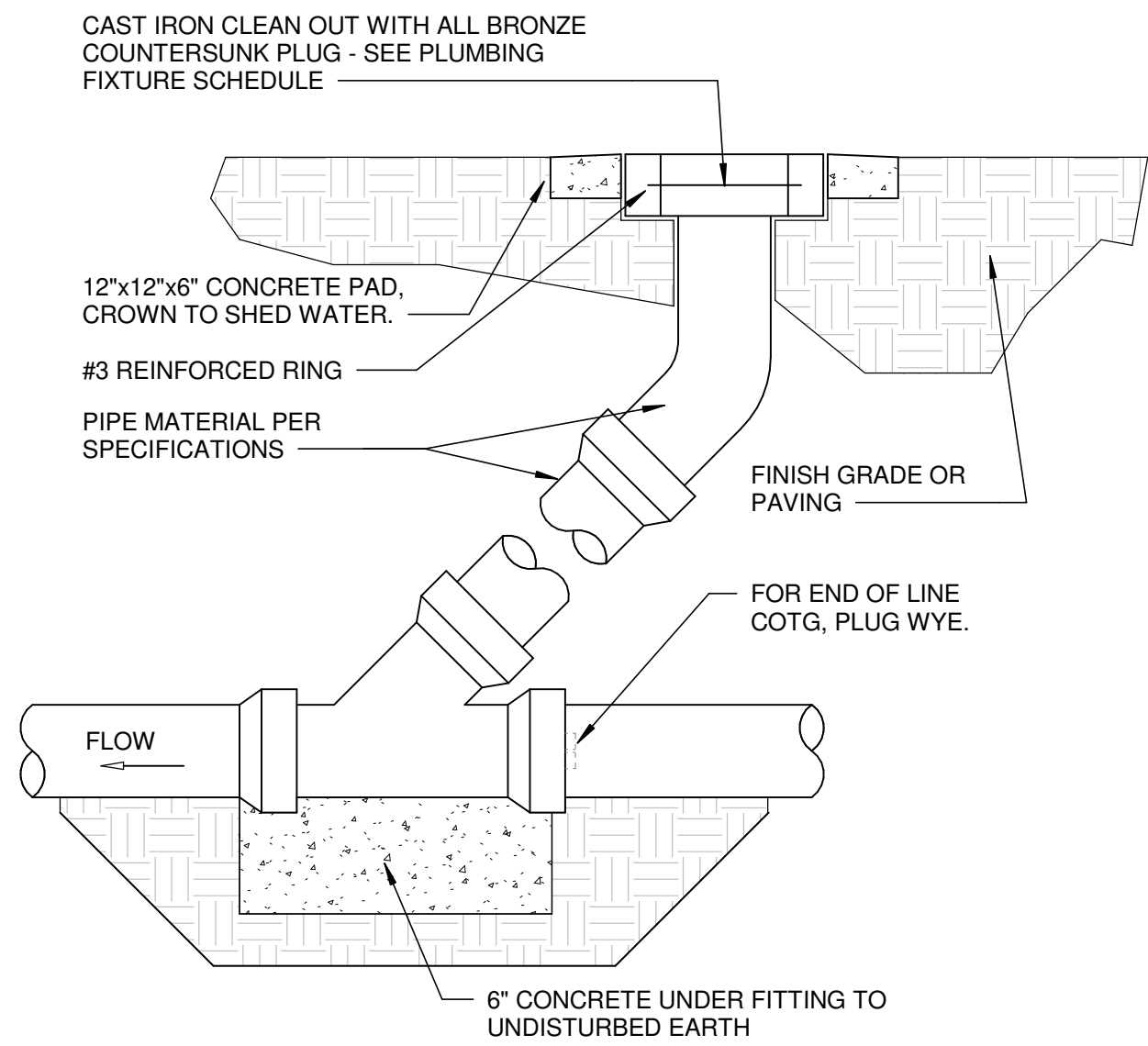


R3 JAN. CLO. ISO.

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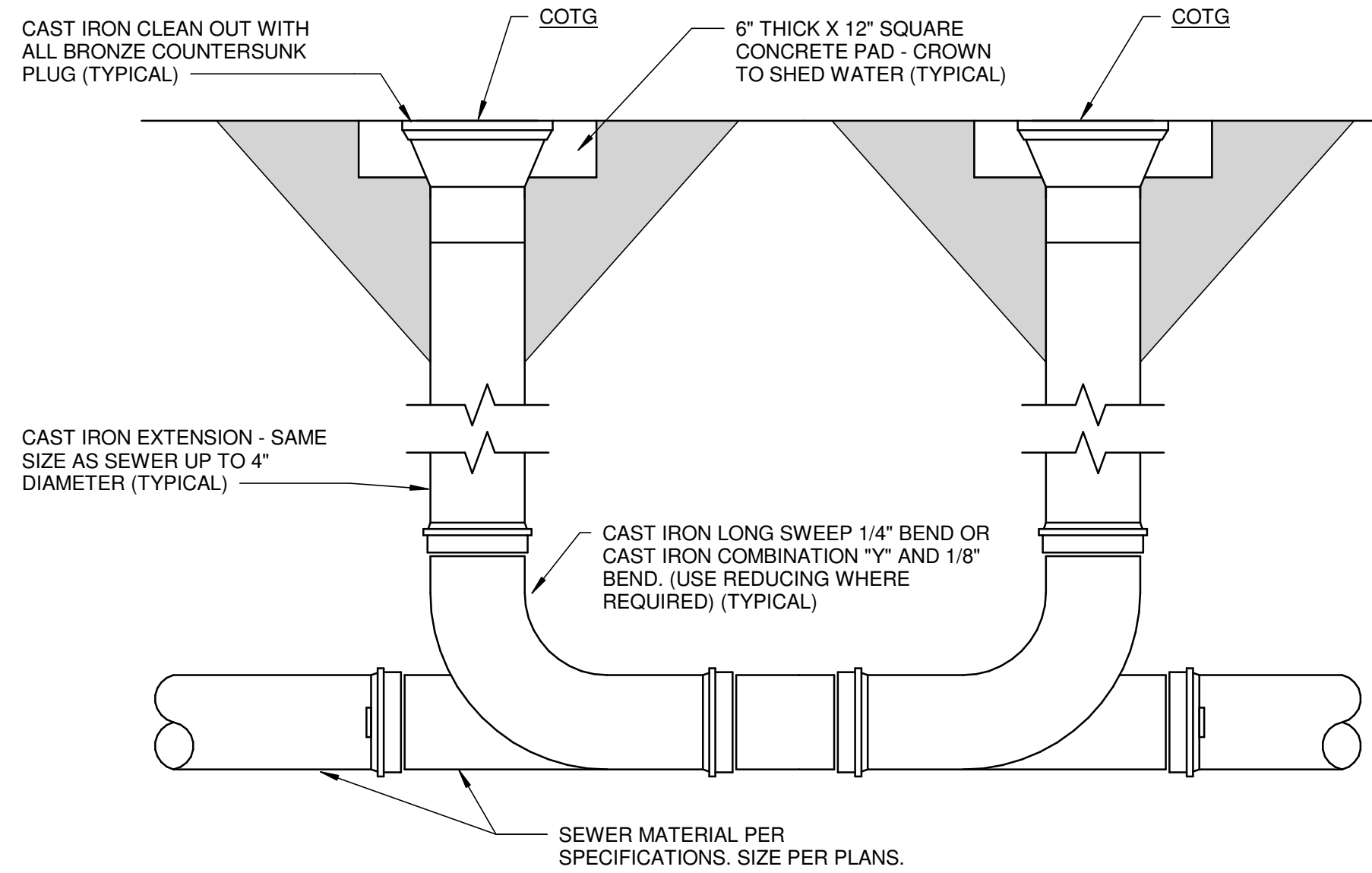


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1 CLEANOUT TO GRADE
NOT TO SCALE

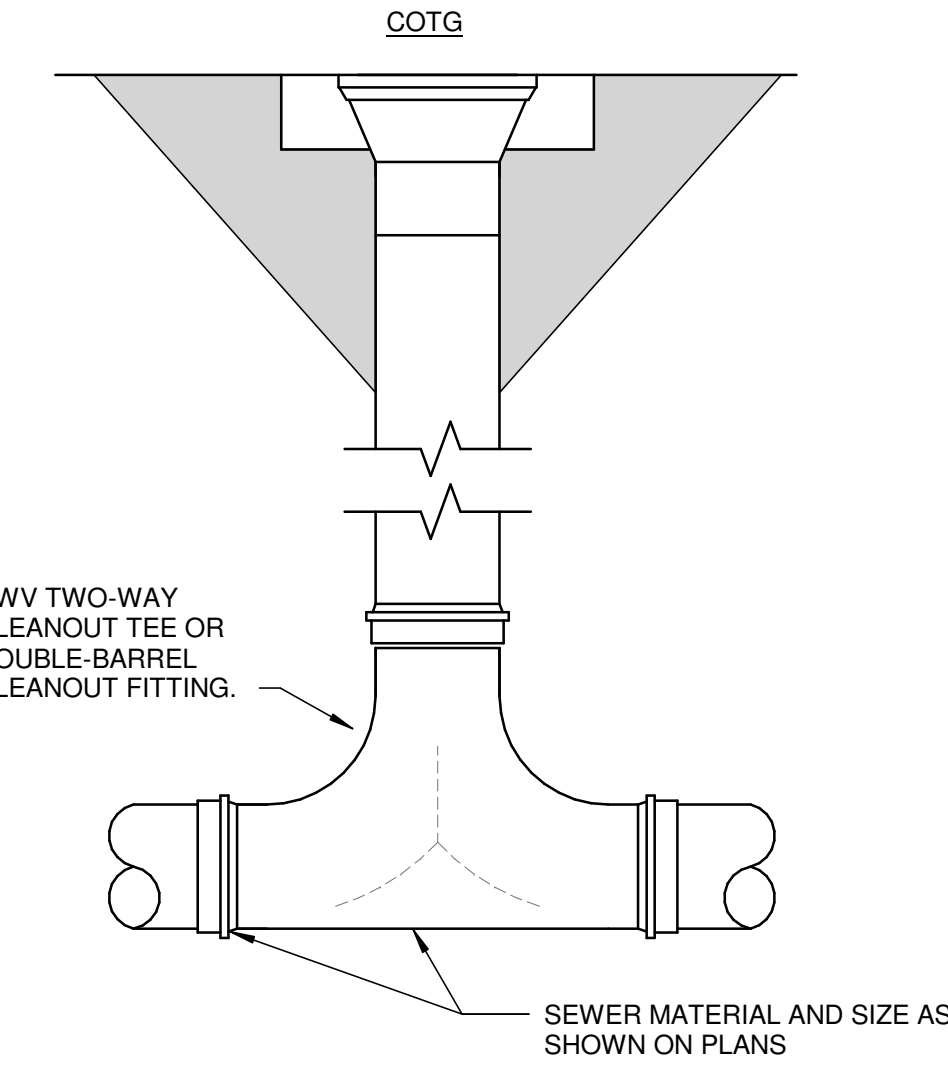
GENERAL NOTE: WHERE POSSIBLE, OFFSET COTG FITTINGS AWAY FROM BUILDING PERIMETER TO AVOID SIDEWALKS. ALL DCOTG LOCATIONS SHALL BE ACCESSIBLE FOR USE.



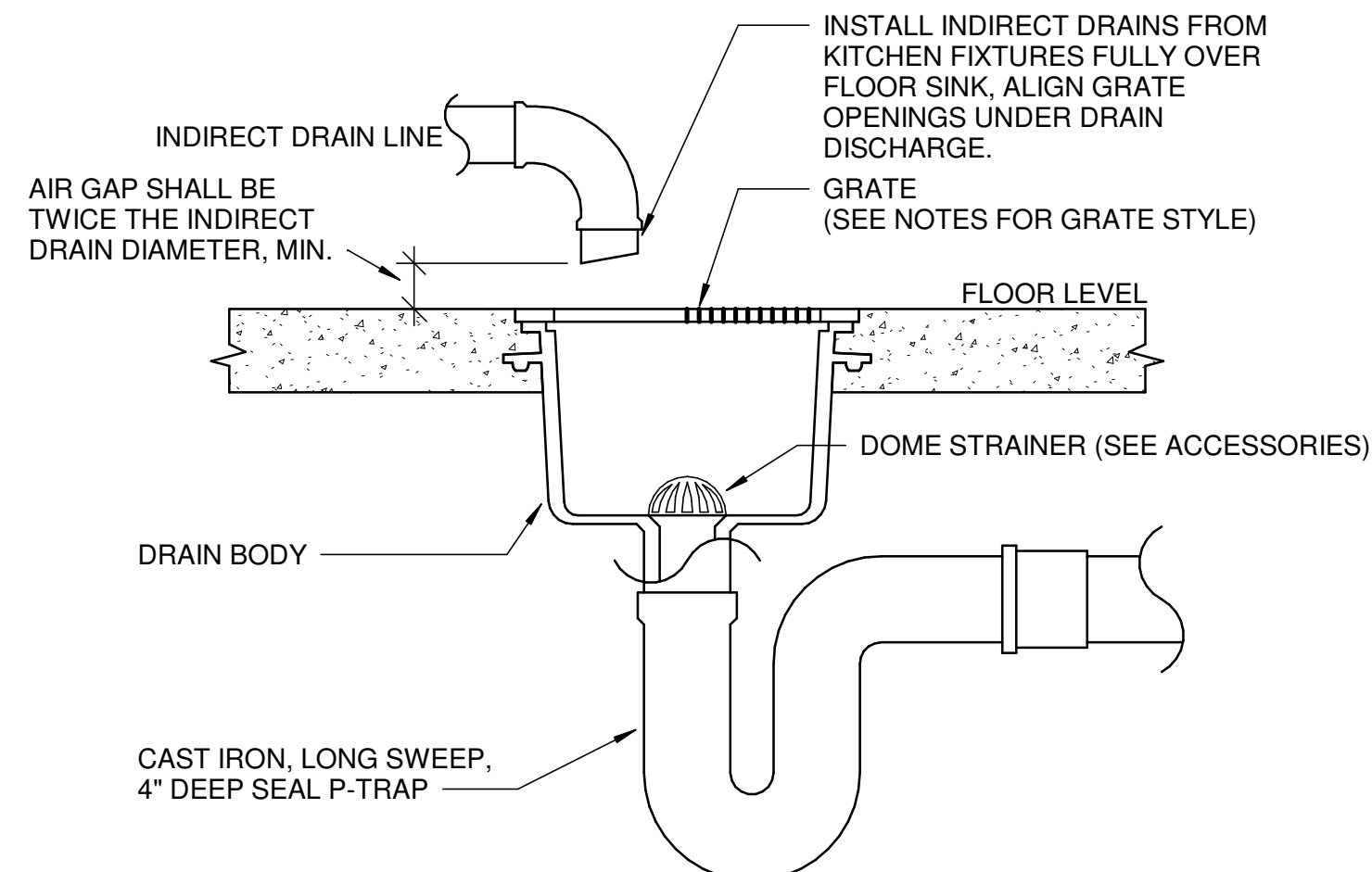
2 DOUBLE CLEANOUT TO GRADE
NOT TO SCALE

COMBINED DOUBLE CLEANOUT FITTING OPTION.

MATCH DCOTG STYLE SHOWN ON PLANS



3 FLOOR DRAIN
NOT TO SCALE



LOCATION	BODY STYLE	GRATE STYLE	ACCESSORIES	NOTES
KITCHEN	CAST IRON WITH ACID RESISTANT EPOXY COATING EQUAL TO ZURN Z1900	LOOSE; GRATES IN WALKING PATHS SHALL BE HEELPROOF	WHITE A.R.C. DOME STRAINER; TRAP GUARD	FOR FLOOR SINKS RECEIVING DISCHARGE FROM 1 DRAIN LINE, PROVIDE 3/4 GRATE; 2 OR MORE DRAINS PROVIDE 1/2 GRATE.
JANITOR'S CLOSET	CAST IRON WITH ACID RESISTANT EPOXY COATING EQUAL TO ZURN Z1910	HEAVY DUTY, LOOSE	ALUMINUM DOME STRAINER; TRAP GUARD	

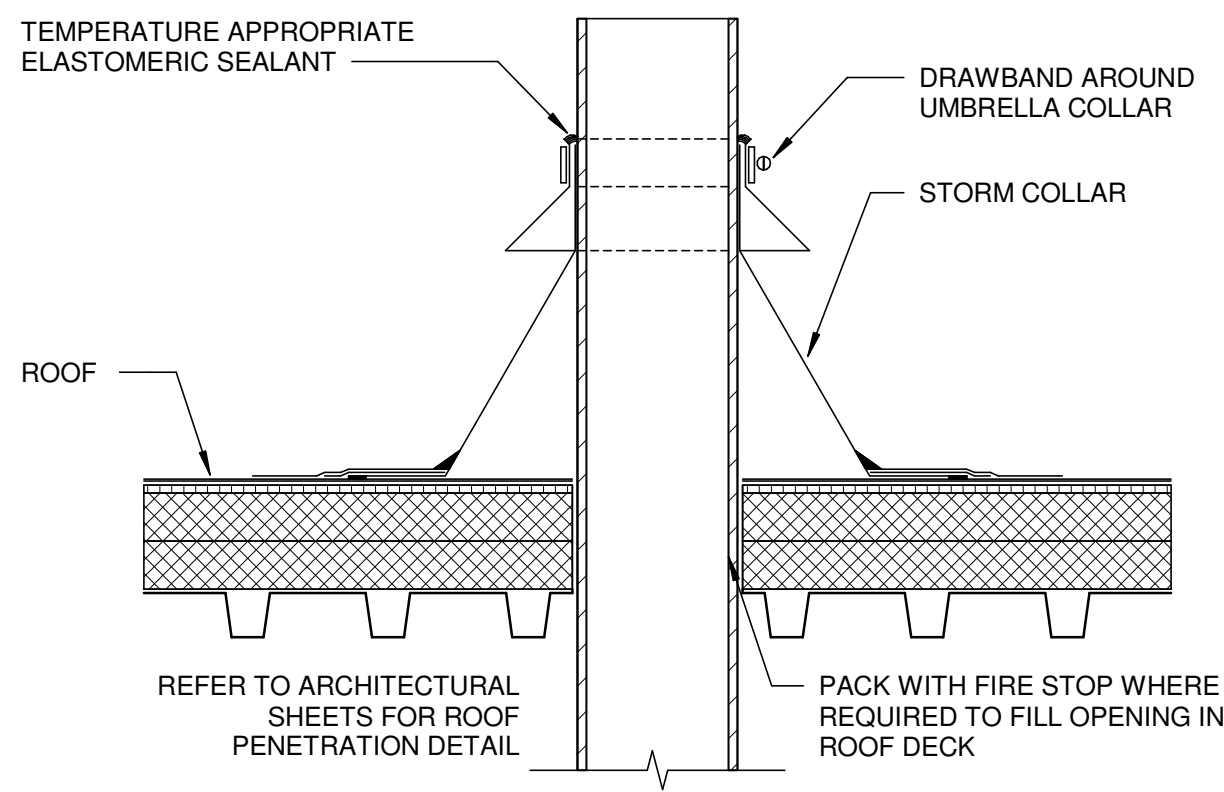
NOTES:

- KITCHEN FLOOR SINKS SHALL BE INSTALLED SO THAT GRATES ARE REMOVABLE FOR EMPTYING DEBRIS WITHIN FLOOR SINK.
- FINAL GRATE STYLE FOR KITCHEN FLOOR SINKS SHALL BE PER KITCHEN EQUIPMENT VENDOR PLANS, WHERE AVAILABLE.

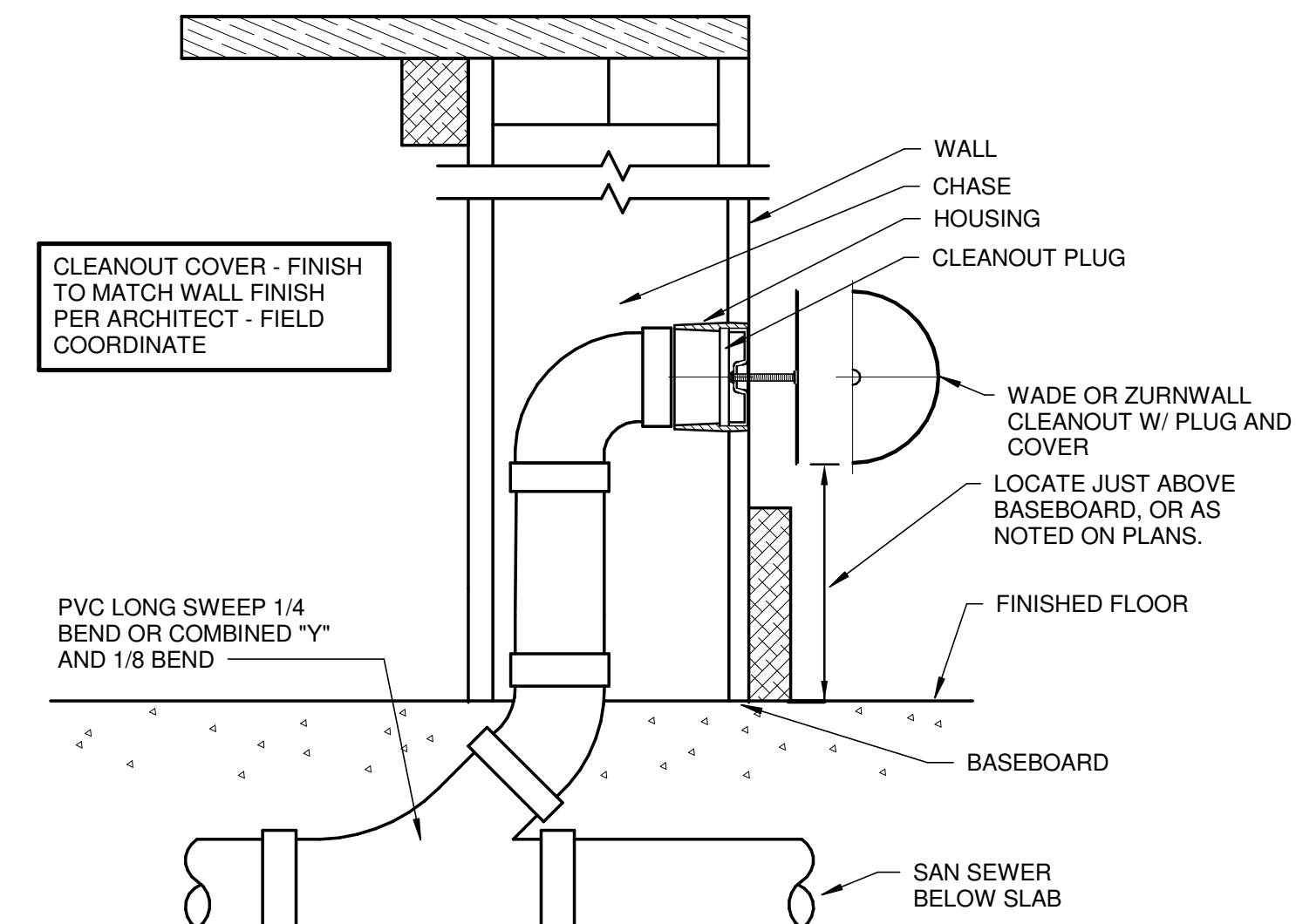
4 FLOOR SINK
NOT TO SCALE

NOTES:

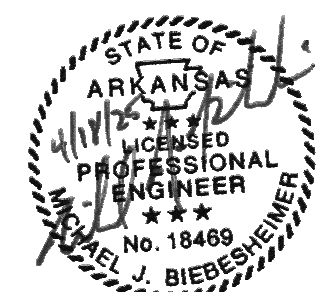
- VENT ABOVE ROOF SHALL BE PAINTED TO MATCH ROOF. COORDINATE WITH ARCHITECT.
- IF ARCHITECTURAL PIPE PENETRATION DETAIL IS AVAILABLE, IT SHALL SUPERCEDE THIS DETAIL.



5 VENT THROUGH ROOF
NOT TO SCALE

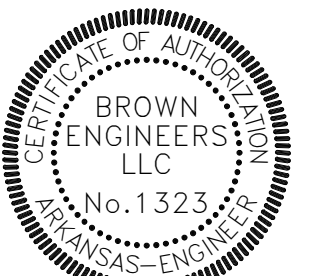


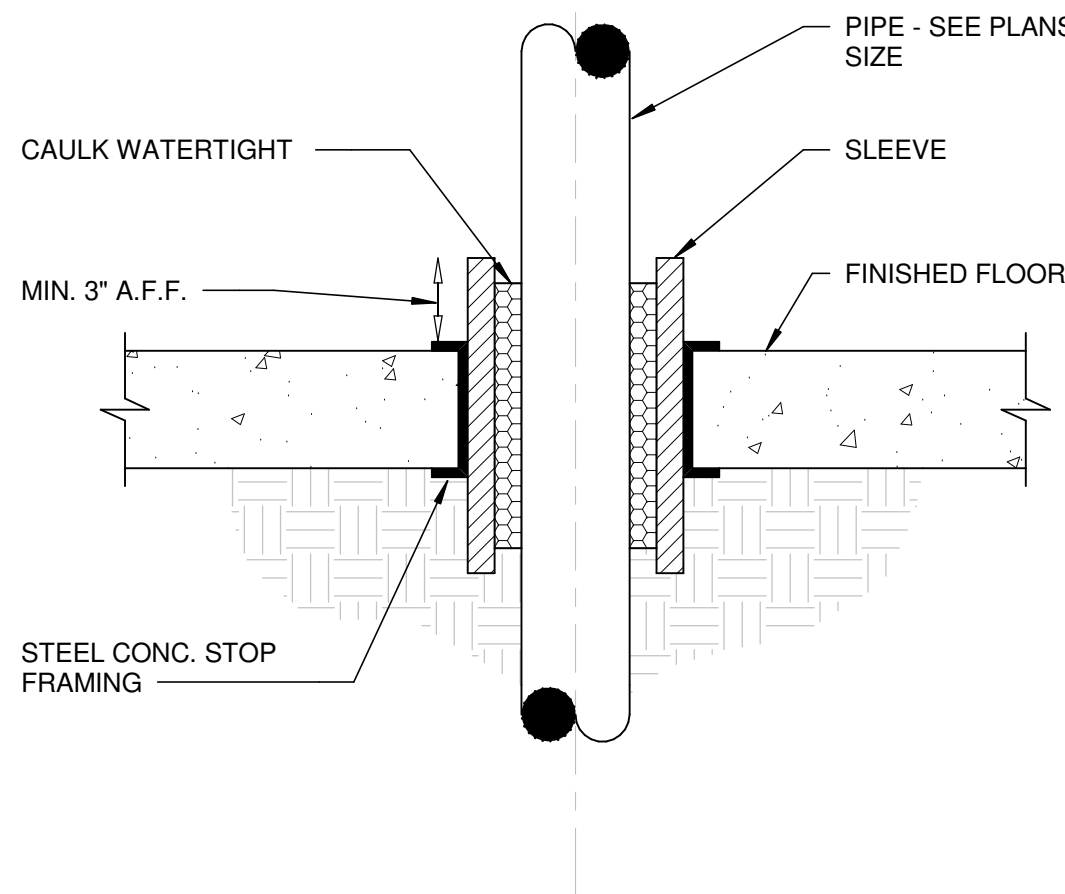
6 WALL CLEANOUT
NOT TO SCALE



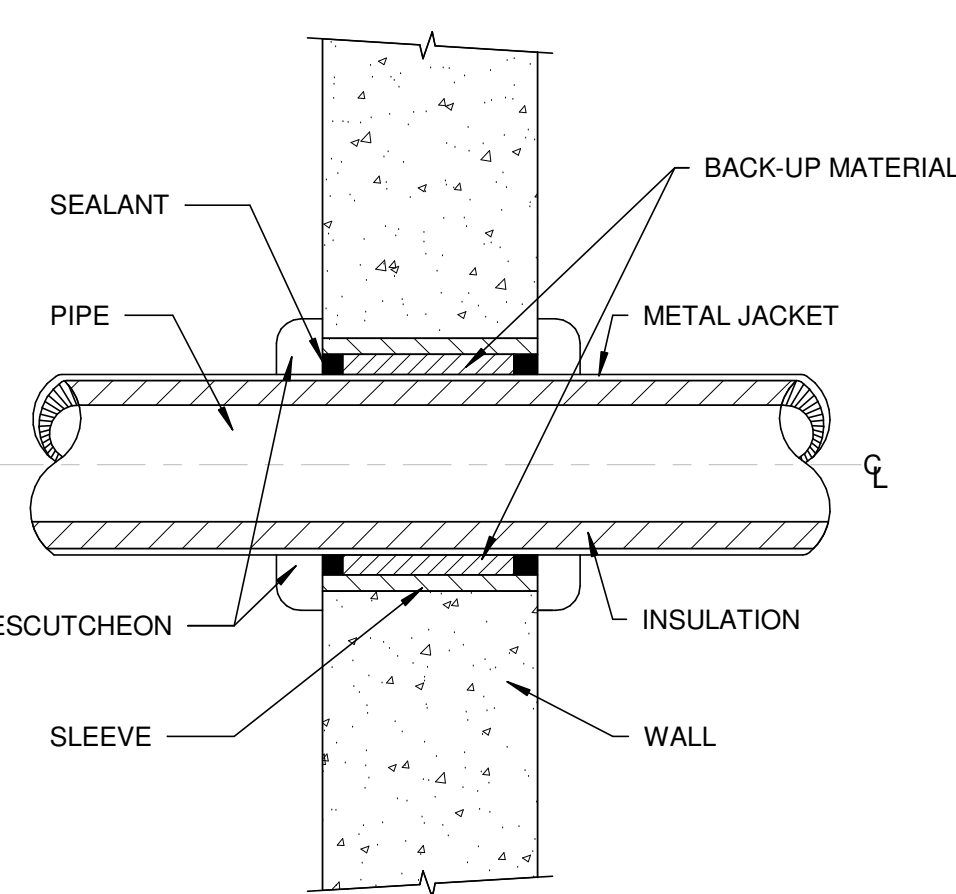
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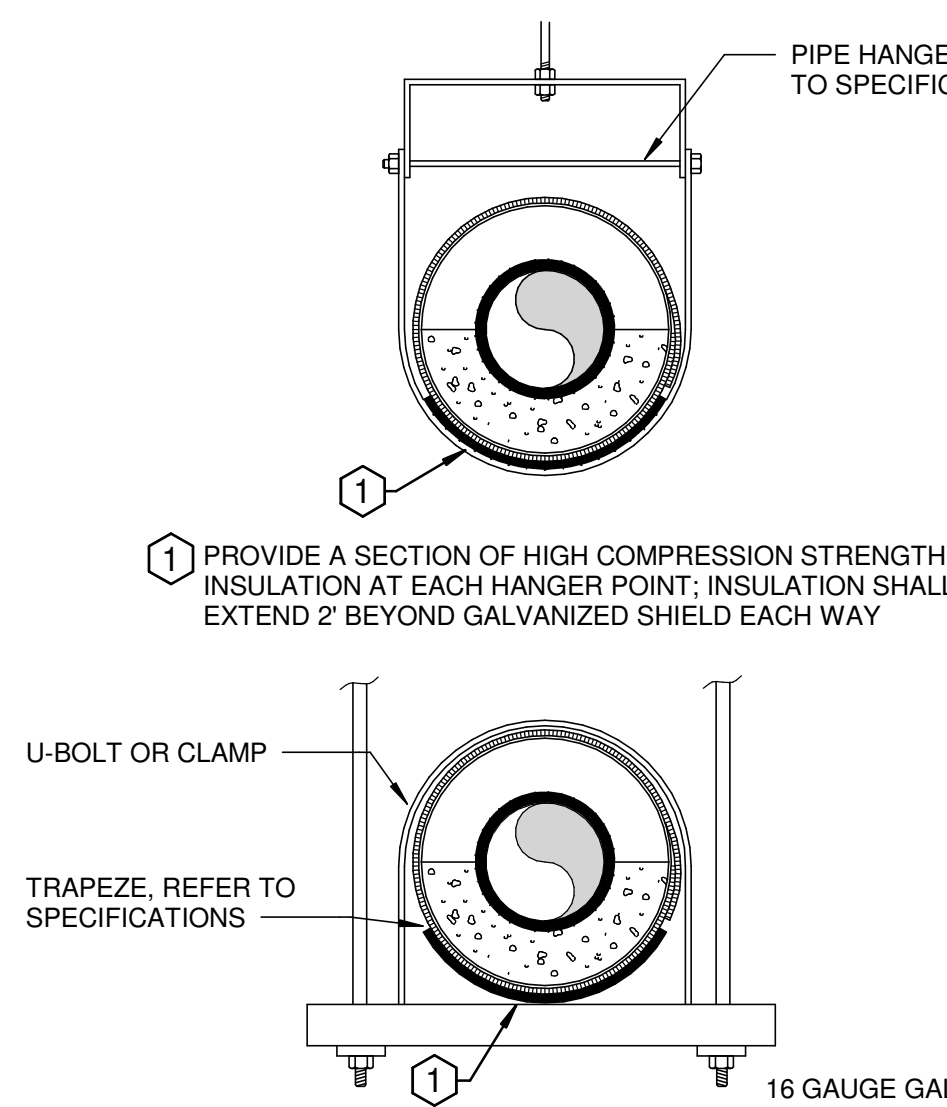




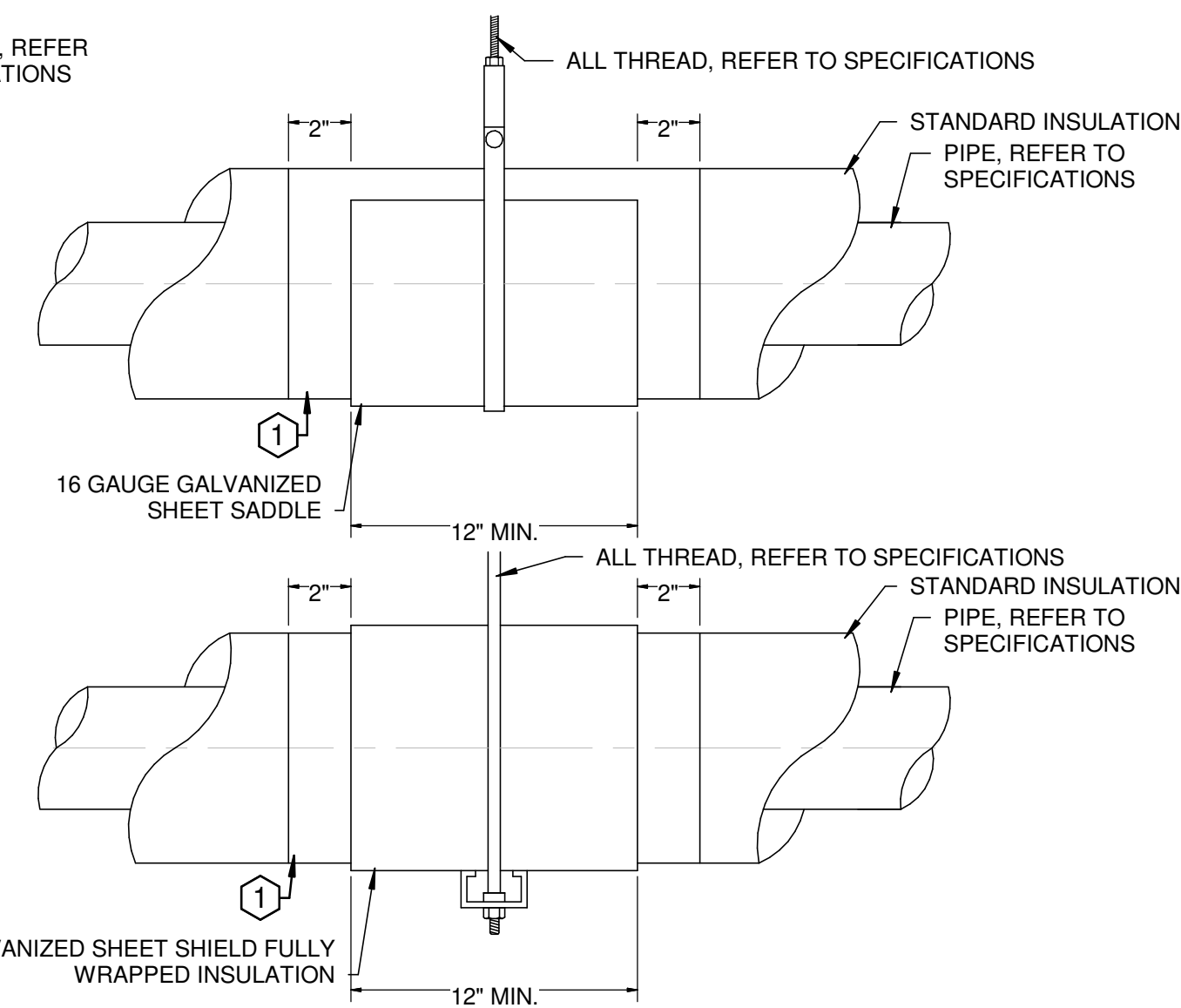
1 FLOOR ON GRADE PENETRATION
NOT TO SCALE



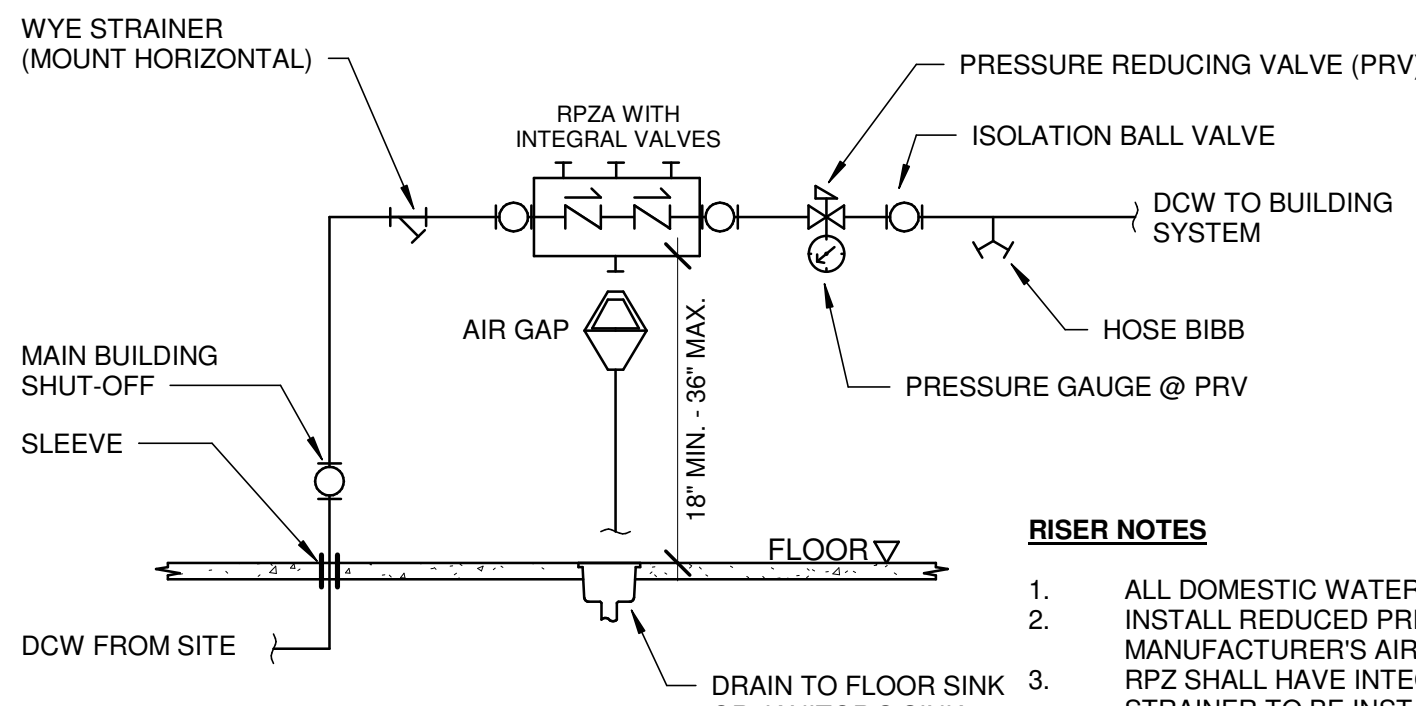
3 PIPE SLEEVE THROUGH WALL
NOT TO SCALE



2 INSULATED PIPE HANGER
NOT TO SCALE



7 DHW RECIRCULATION PUMP
NOT TO SCALE



- RPZ NOTES**
- IF INCOMING PRESSURE IS 70PSI OR GREATER, PROVIDE PRV EQUAL TO WATTS LF223 FOR 2 1/2" AND BELOW. PRV SHALL BE EQUAL TO WATTS LFN223B FOR 3" SIZE PRV PER PLANS OR MATCH RPZ SIZE, DO NOT SIZE BASED ON DISTRIBUTION PIPE SIZE.
 - ENGINEER SHALL BE INFORMED IF INCOMING PRESSURE AT BUILDING IS 150PSI OR GREATER.

RISER NOTES

- ALL DOMESTIC WATER RISER COMPONENTS SHALL BE LEAD-FREE.
- INSTALL REDUCED PRESSURE ZONE ASSEMBLY (RPZA) BACKFLOW PREVENTER WITH MANUFACTURER'S AIR GAP AND ROUTE FULL-SIZE TO SANITARY.
- RPZ SHALL HAVE INTEGRAL STRAINER UNLESS SPATIAL CONSTRAINTS REQUIRE STRAINER TO BE INSTALLED SEPARATELY.
- INSTALL PIPE STANDS TO SUPPORT THE COMPONENTS. DO NOT SUPPORT ASSEMBLIES FROM PIPING. INSTALL BEARING PLATES ON CONCRETE FLOOR UNDER EACH SUPPORT.
- COORDINATE FINAL LOCATION OF DOMESTIC RISER WITH ALL OTHER SYSTEMS AND EQUIPMENT IN ASSOCIATED ROOM. RISER SHALL NOT INTERFERE WITH OR IMPEDE OPERATIONS OF OTHER SYSTEMS OR FACILITY PERSONNEL.
- INSTALL ALL VALVES SO THAT VALVE HANDLES ARE NOT IMPEDED IN ANY MANNER AND ARE EASILY OPERATED FROM INTERIOR OF ROOM.
- WHEN MOUNTED NEXT TO A WALL, RPZA SHALL HAVE 12" CLEARANCE BETWEEN TEST PORTS AND WALL, MINIMUM.

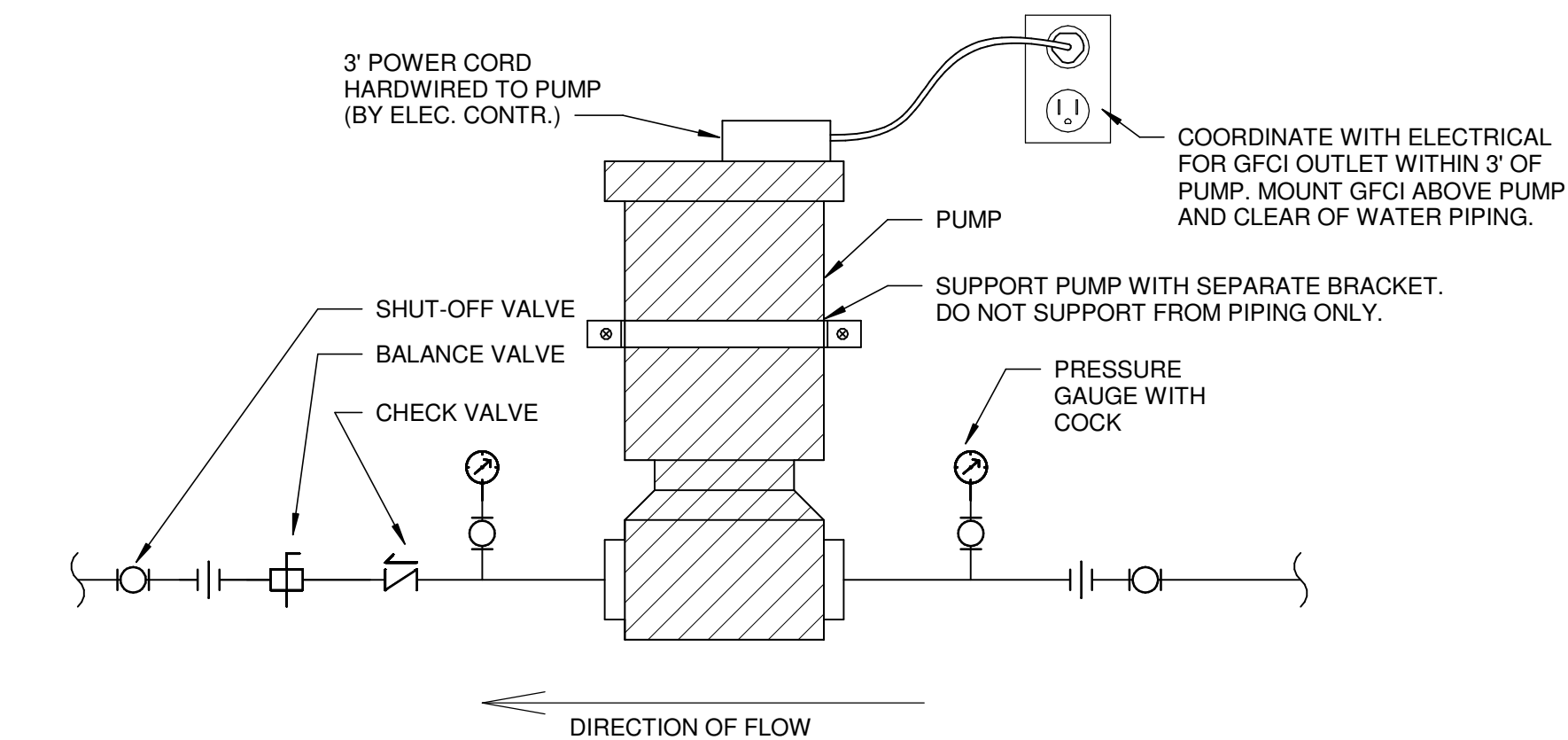
RPZ SIZE	MAKE	MODEL
1/4" - 3/4"	WATTS	U-LF009QT-S
1" - 2"	WATTS	U-LF009M2-QT-S
2 1/2" - 3"	WATTS	LF009QT-FDA
4" - 10"	WATTS	LF909-OSY-S-FDA

HAMMER ARRESTOR SCHEDULE		
SUPPLY BRANCH SIZE	PDI HAMMER ARRESTOR SIZE	FIXTURE UNITS
1/2" - 1"	A	1-11
1-1/4"	B	12-32
1-1/2"	C	33-60
2"	D	61-113
2-1/2"	E	114-154
3"	F	155-330

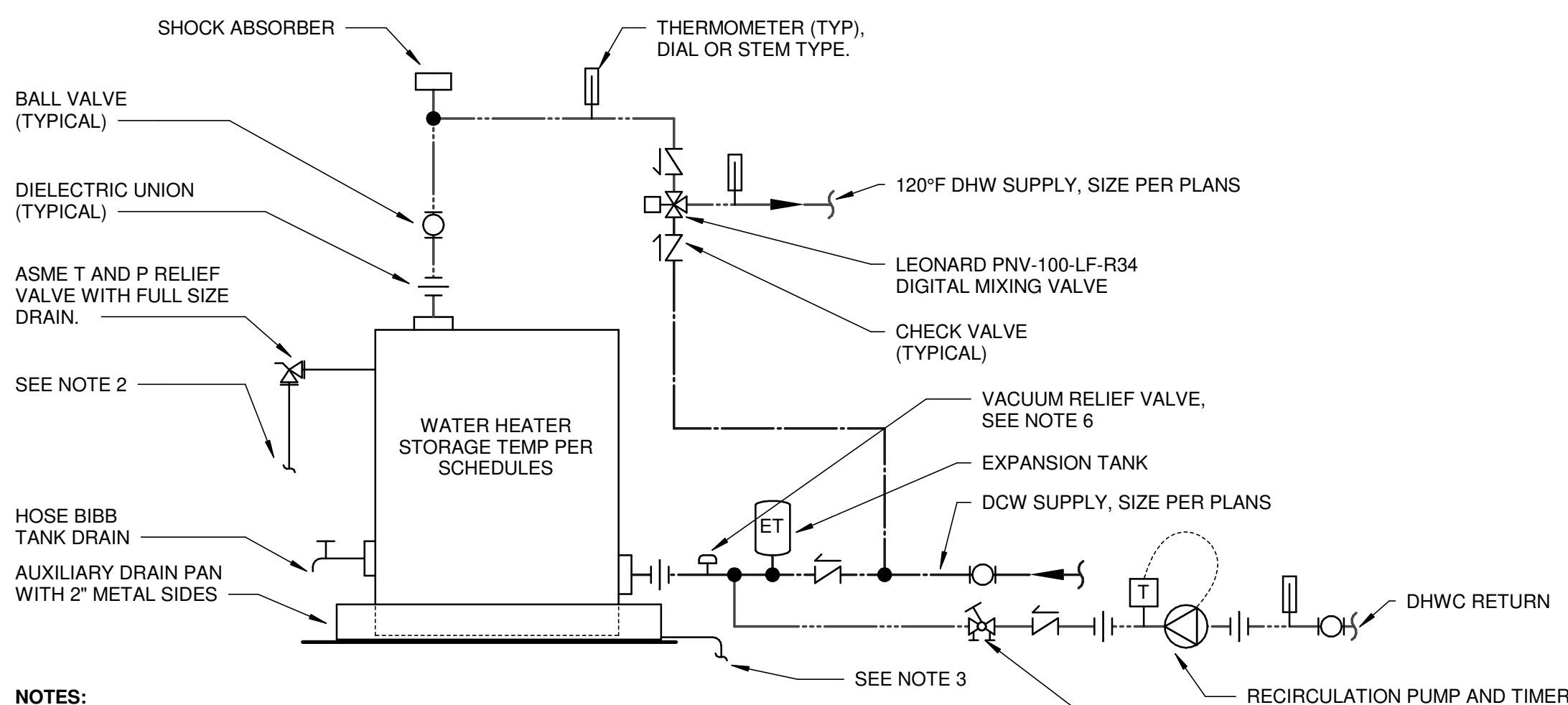
NOTES:

- ALL BATHROOM GROUPS SHALL INCLUDE A MINIMUM OF ONE DCW ARRESTOR AND ONE DHW ARRESTOR SIZED PER HAMMER ARRESTOR SCHEDULE. ADDITIONAL ARRESTORS SHALL BE INSTALLED WHERE INDICATED.
- ARRESTORS SHALL BE P.D.I.-WH201 APPROVED AND CERTIFIED.
- ARRESTORS SHALL HAVE WROUGHT COPPER SHELL WITH THREADED CONNECTIONS AND HYDRO-PNEUMATIC AIR CUSHION.
- PROVIDE ACCESS TO ARRESTORS.
- FURNISH AND INSTALL WITH ISOLATION VALVES INDEPENDENT OF ASSEMBLY.

COMMON PUBLIC FIXTURE GROUPS		
PLUMBING GROUP FIXTURES	FLUSH TANK	FLUSH VALVE
1 TLT, 1 LAV	6.5	11.5
2 TLT, 2 LAV	13.5	23
1 TLT, 1 UR, 1 LAV	13	18
3 TLT, 3 LAV	19.5	34.5
2 TLT, 1 UR, 3 LAV	19.5	29.5
4 TLT, 4 LAV	26	46



6 WATER HAMMER ARRESTOR SCHEDULE
NOT TO SCALE



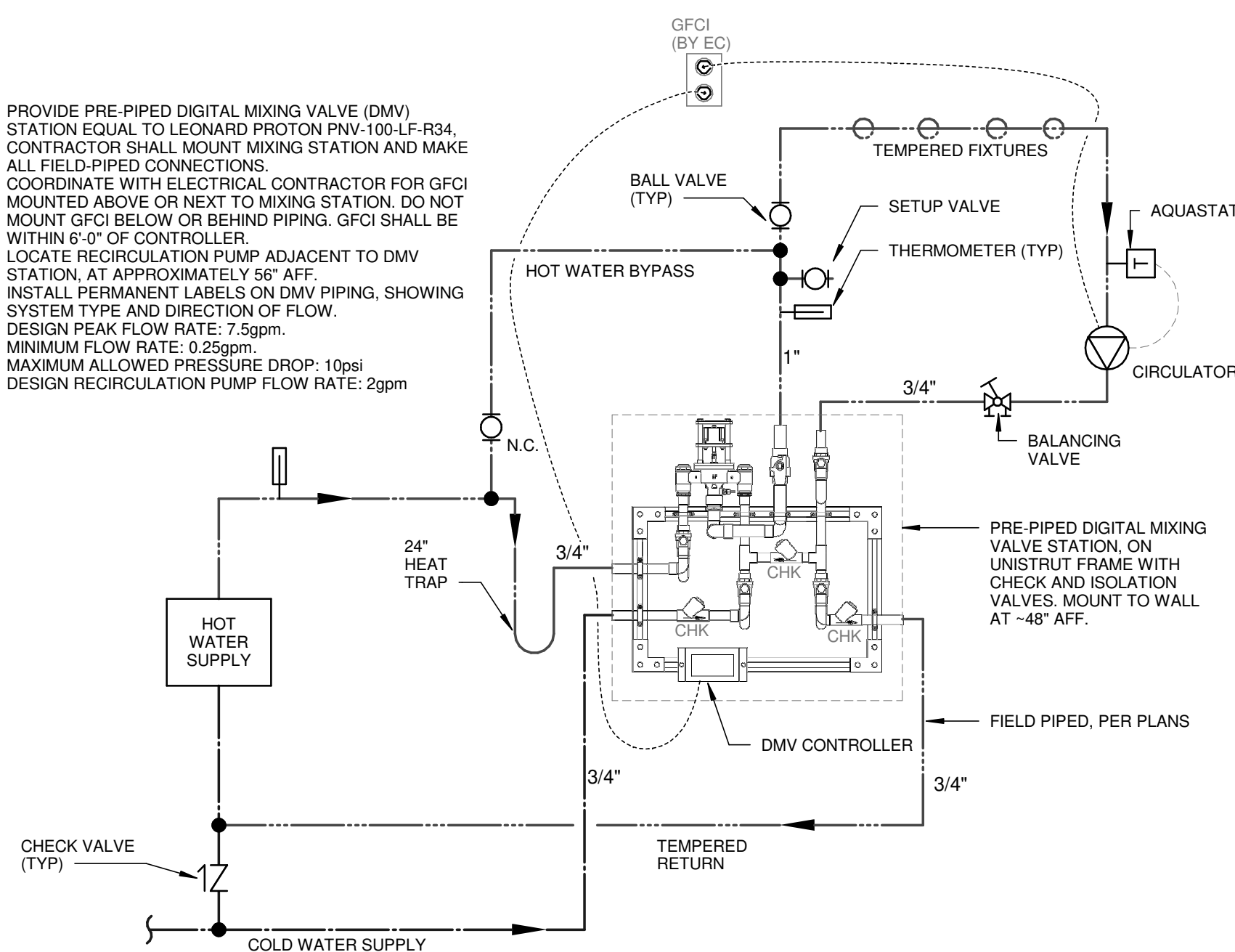
NOTES:

- PROVIDE THERMAL EXPANSION TANK ON COLD WATER INLET. SIZE PER MANUFACTURER'S RECOMMENDATION.
- T & P RELIEF VALVE SHALL DISCHARGE FULL SIZE TO SANITARY. T&P DISCHARGE SHALL NOT CAUSE A THREAT TO OR INTERFERE WITH FACILITY OPERATIONS, FACILITY ITSELF, EQUIPMENT OR PERSONNEL. THE DISCHARGE PIPE SHALL NOT HAVE ANY TRAPPED SECTIONS.
- PAN DRAIN SHALL EXTEND FULL SIZE TO SANITARY.
- AUTHORITIES HAVING JURISDICTION.
- FOR SUSPENDED WATER HEATERS, PROVIDE PRE-MANUFACTURED PLATFORM EQUAL TO 'HOLD-RITE'. PLATFORM SHALL BE RATED FOR FULL WEIGHT OF WATER HEATER AND ACCESSORIES WHEN FILLED. PROVIDE SECONDARY SEISMIC STRAP AROUND WATER HEATER AND SECURED TO STRUCTURE.
- PROVIDE BOTTOM FED WATER HEATERS WITH VACUUM RELIEF VALVE WHICH MEETS ANSI Z21.22.
- SET PUMP TIMER SO THAT RECIRCULATION PUMP OPERATES ONLY DURING OCCUPIED HOURS.

8 WATER HEATER - MASTER TMV W/ RECIRC.
NOT TO SCALE

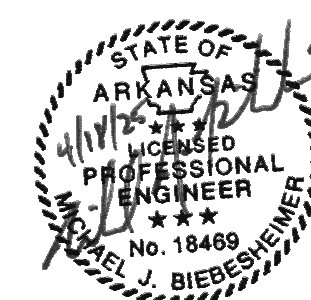
NOTES:

- PROVIDE PRE-PIPED DIGITAL MIXING VALVE (DMV) STATION EQUAL TO LEONARD PROTON PNV-100-LF-R34. CONTRACTOR SHALL MOUNT MIXING STATION AND MAKE ALL FIELD-PIPED CONNECTIONS.
- COORDINATE WITH ELECTRICAL CONTRACTOR FOR GFCI MOUNTED ABOVE OR NEXT TO MIXING STATION. DO NOT MOUNT GFCI BELOW OR BEHIND PIPING. GFCI SHALL BE WITHIN 6'-0" OF CONTROLLER.
- LOCATE RECIRCULATION PUMP ADJACENT TO DMV STATION, AT APPROXIMATELY 56" AFF.
- INSTALL PERMANENT LABELS ON DMV PIPING, SHOWING SYSTEM TYPE AND DIRECTION OF FLOW.
- DESIGN PEAK FLOW RATE: 7.5gpm.
- MINIMUM FLOW RATE: 0.25gpm.
- MAXIMUM ALLOWED PRESSURE DROP: 10psi.
- DESIGN RECIRCULATION PUMP FLOW RATE: 2gpm.



9 THERMOSTATIC MIXING STATION
NOT TO SCALE

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