

SITE PLAN LEGEND:	GENERAL NOTES:
EXISTING BUILDING AND PARKING NEW BUILDING AND PARKING	1. SITE PAVING SHOWN FOR REFERENCE. REFER CIVIL DRAWINGS FOR SITE PAVING DESIGN, LAYOUT AND DIMENSIONS. 2. LANDSCAPING DESIGN NOT IN CONTRACT. 3. GO TO COORDINATE STAGING LOCATIONS WITH OWNER PRIOR TO MOVING ON SITE. 4. GC SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES BEFORE STARTING DEMOLITION WORK. 5. INSTALL SILT FENCE AS NEEDED AROUND DISTURBED AREA. 6. SIDEWALK NOTES: A. PROVIDE A MEDIUM BROOM FINISH ON ALL SIDEWALKS AND PADS. B. SIDEWALKS SHALL NOT EXCEED A MAXIMUM SLOPE OF 120 IN THE DIRECTION OF TRAVEL. CROSS SLOPE SHALL NOT EXCEED 150.

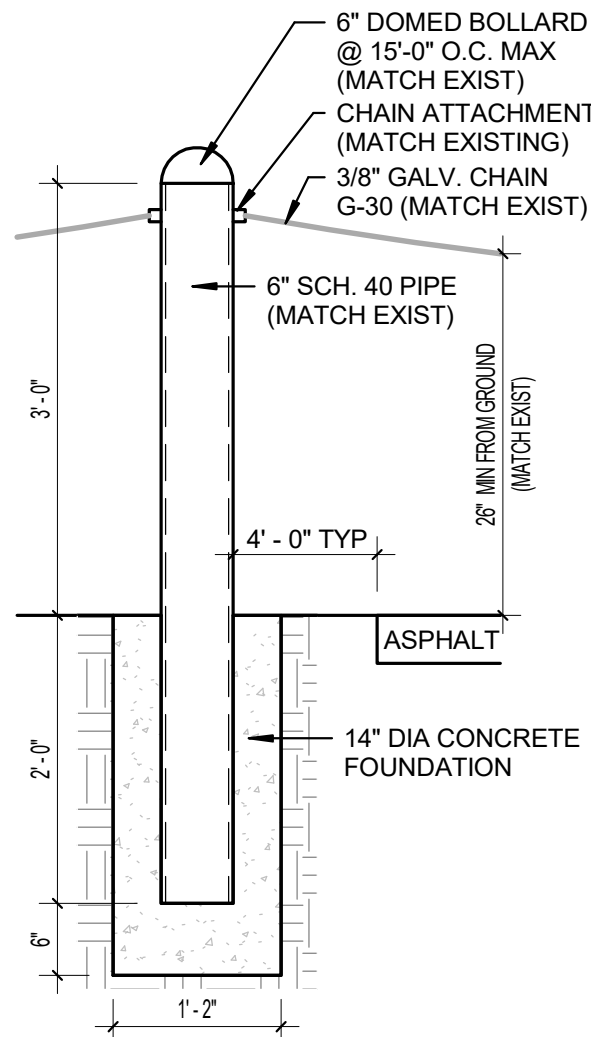
BUILDING AND PARKING INFORMATION:

BUILDING DATA: TOTAL EXISTING BUILDING = 153,800 S.F. PROPOSED NEW CONSTRUCTION: PHASE 5 FIRST FLOOR = 19,542 S.F. PHASE 5 SECOND FLOOR = 10,629 S.F. PHASE 5 TOTAL = 31,371 S.F. TOTAL EXISTING + NEW CONSTRUCTION = 185,171 S.F. BUILDING HEIGHTS: BUILDING EAVE HEIGHT = 52'-4" BUILDING RIDGE HEIGHT = 67'-6"	EXISTING PARKING: ACCESSIBLE PARKING = 31 SPACES REGULAR PARKING = 732 SPACES TOTAL EXISTING PARKING = 763 SPACES PROPOSED NEW PARKING: ACCESSIBLE PARKING = 8 SPACES LOST REGULAR PARKING = 0 SPACES TOTAL NEW PARKING = 8 SPACES LOST TOTAL EXISTING + NEW PARKING = 755 SPACES ACCESSIBLE PARKING = 23 SPACES REGULAR PARKING = 732 SPACES
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LANDSCAPE LEGEND:	LANDSCAPE LEGEND:
SHADE TREE SOLID SOD COMMON BERMUDA GRASS	INTERIOR PARKING LOT TREE REQUIREMENTS: 1 TREE PER 15 SPACES 0 SPACES / 15 = 0 = 0 TREES REQUIRED 1 TREES PROVIDED TO REPLACE TREE REMOVED DURING CONSTRUCTION

LANDSCAPE PLANT LIST:

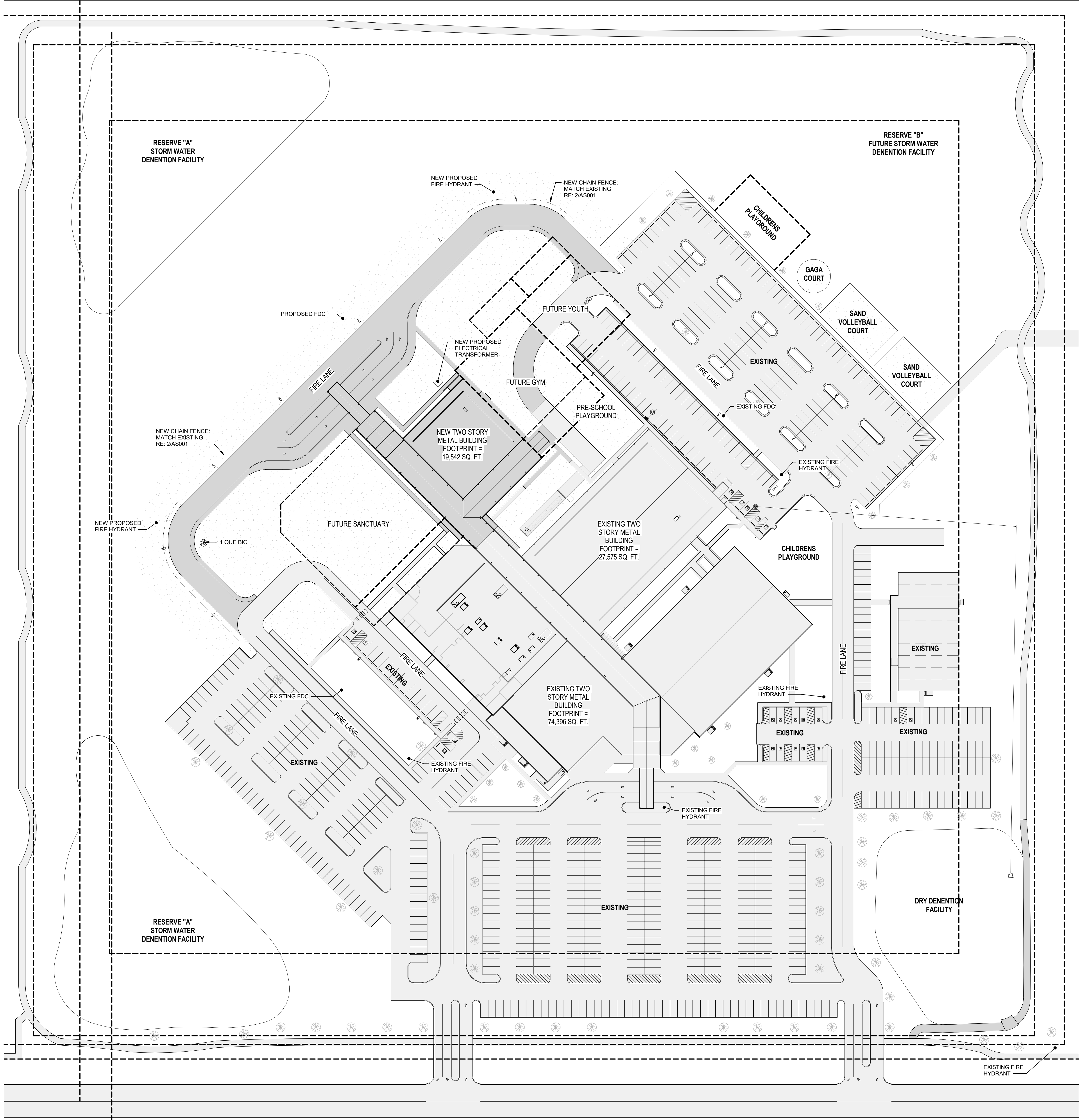
KEY	QUANTITY	UNIT	NAME	SIZE	ROOT BALL	REMARKS
QUE BIC	1	EA	QUERCUS BICOLOR SWAMP WHITE OAK	10' H 2" CP	B&B	MATCHED



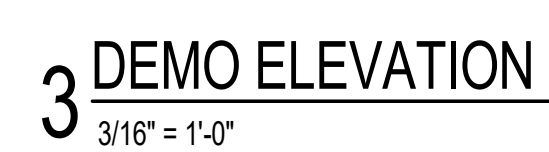
NOTE: INSTALL BOLLARDS AT 3'-0\"/>

2 BOLLARD FENCE DETAIL
3/4\"/>

1 ARCHITECTURAL SITE PLAN
1\"/>



The logo for Reed Architecture & Interiors is located in the top left corner. It features a stylized graphic of a pencil and a compass needle intertwined to form a large, abstract letter 'R'. To the right of this graphic, the company name 'REED ARCHITECTURE & INTERIORS' is written in a bold, sans-serif font. Below the company name, the tagline 'The Team You Trust' is written in a smaller, italicized font. The entire logo is enclosed within a white rectangular box with rounded corners.



CONSULTANT:

Reference Cover Sheet
for Consultant Directory

100% CONSTRUCTION
DOCUMENTS
03.03.2025

**EVERGREEN BAPTIST
CHURCH - PHASE 5**

10301 EAST 11TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

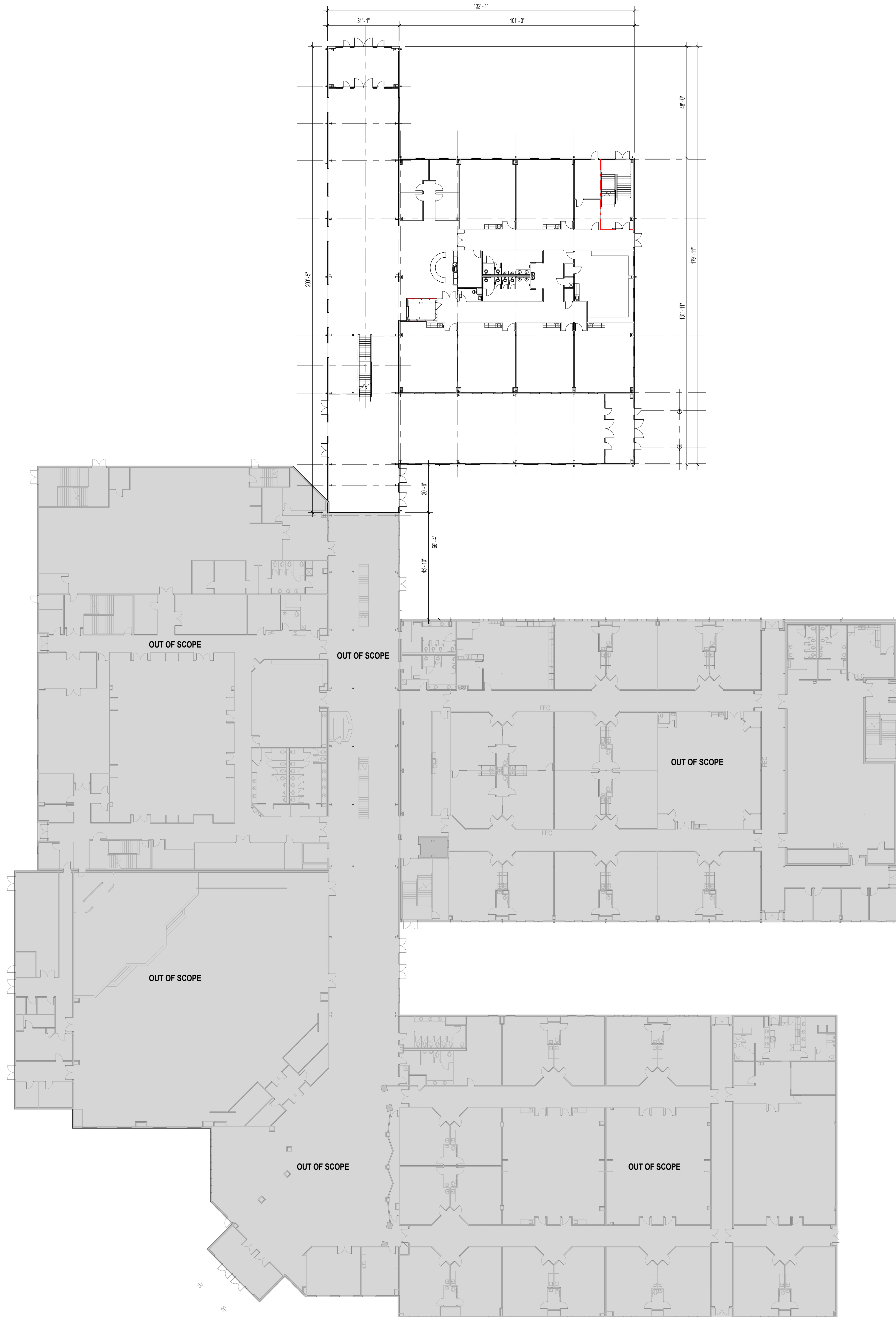
OVERALL FIRST FLOOR PLAN

JOB: 2023.14
ISSUE: 03.03.2025
DRAWN BY: BG
CHKD BY: SE

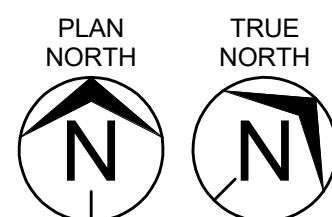
A101

SCALE: 3/8" = 1'-0"

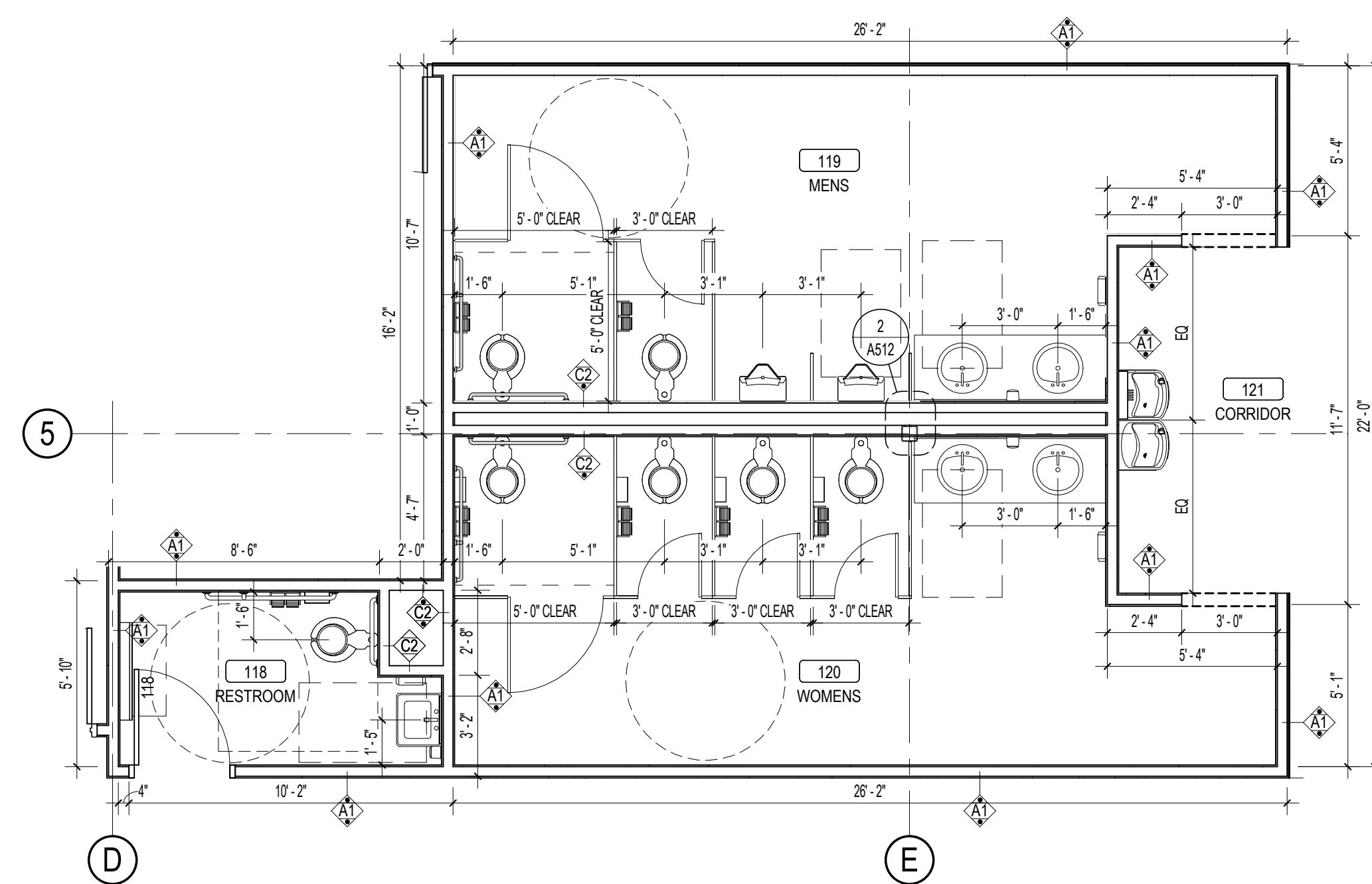
3/3/2025



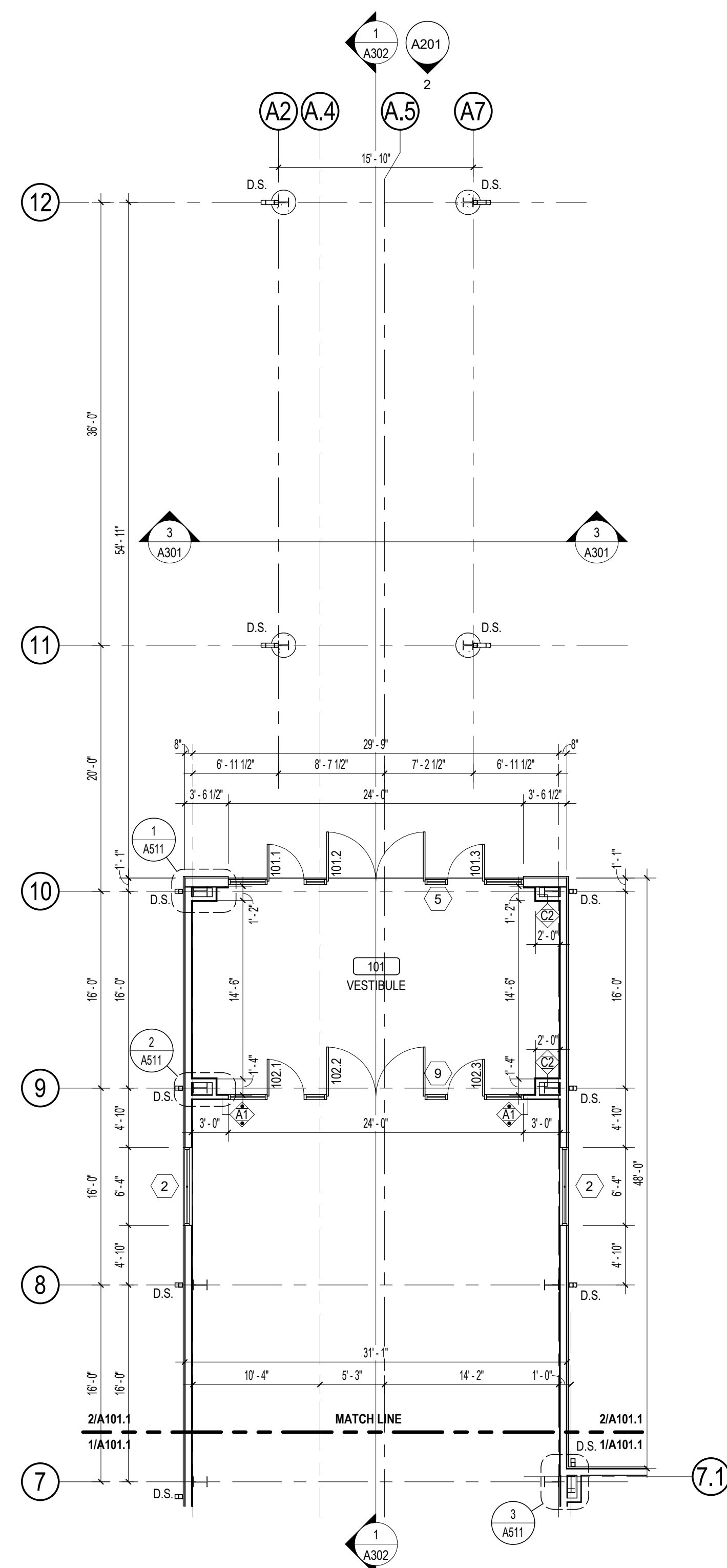
1 OVERALL FIRST FLOOR PLAN
3/8" = 1'-0"



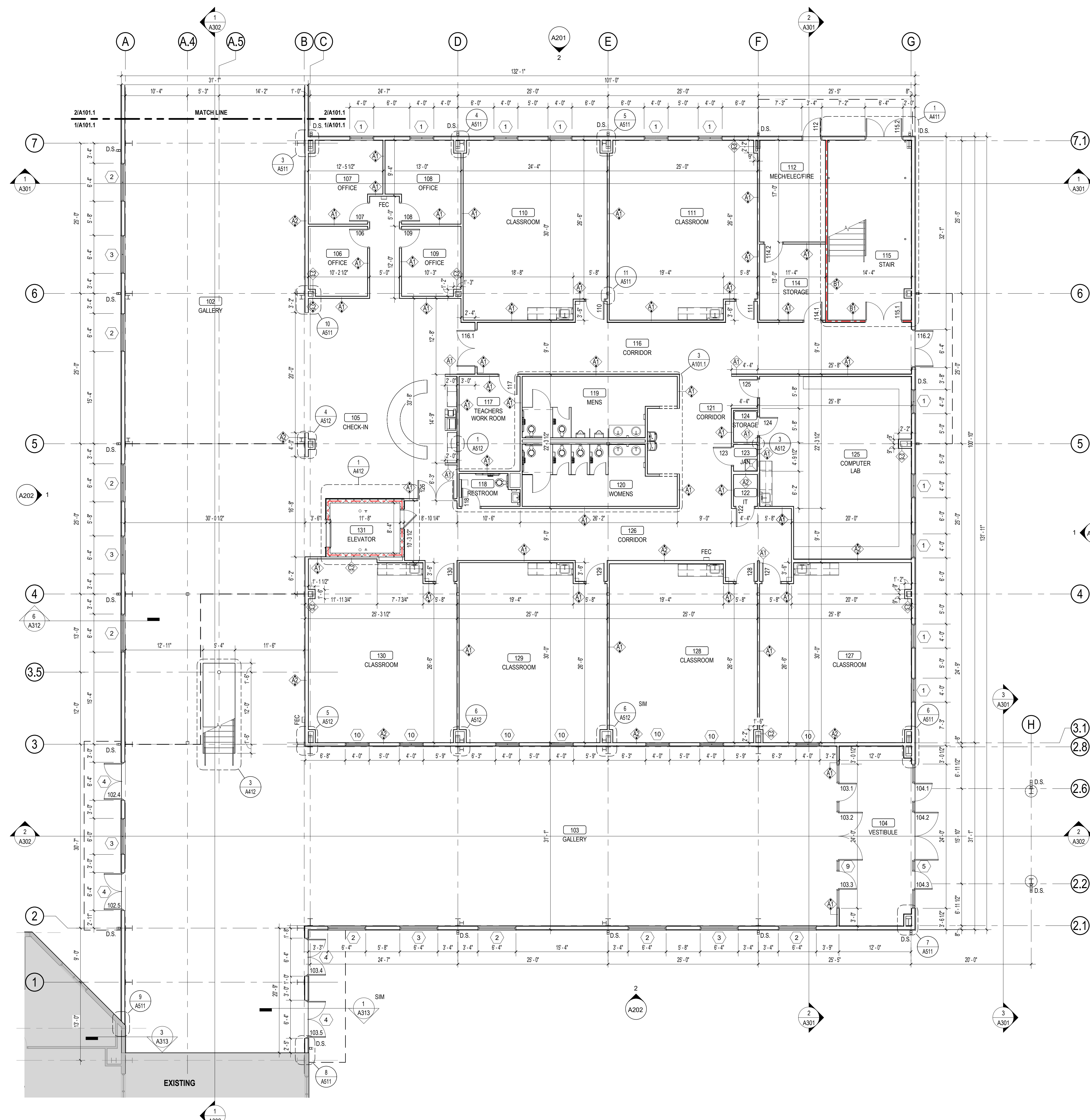
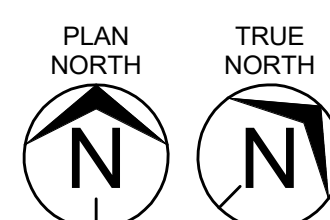
1/8" = 1'-0" 0 2 4 8 16 32 3/32" = 1'-0" 0 4 8 16 32 1/8" = 1'-0" 0 4 8 16 1/4" = 1'-0" 0 2 4 8 1/2" = 1'-0" 0 2 4 8 3/4" = 1'-0" 0 2 4 8 1" = 1'-0" 0 2 4 8 1 1/2" = 1'-0" 0 2 4 8 2" = 1'-0" 0 2 4 8



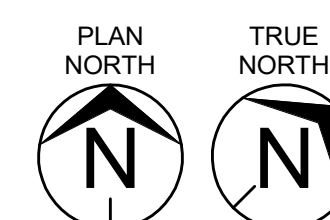
3 ENLARGED RESTROOM PLAN 118, 119, 120
1/4" = 1'-0"



2 FIRST FLOOR PLAN - CANOPY
1/8" = 1'-0"



1 FIRST FLOOR PLAN
1/8" = 1'-0"



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EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

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1 04.09.2025 REVW2

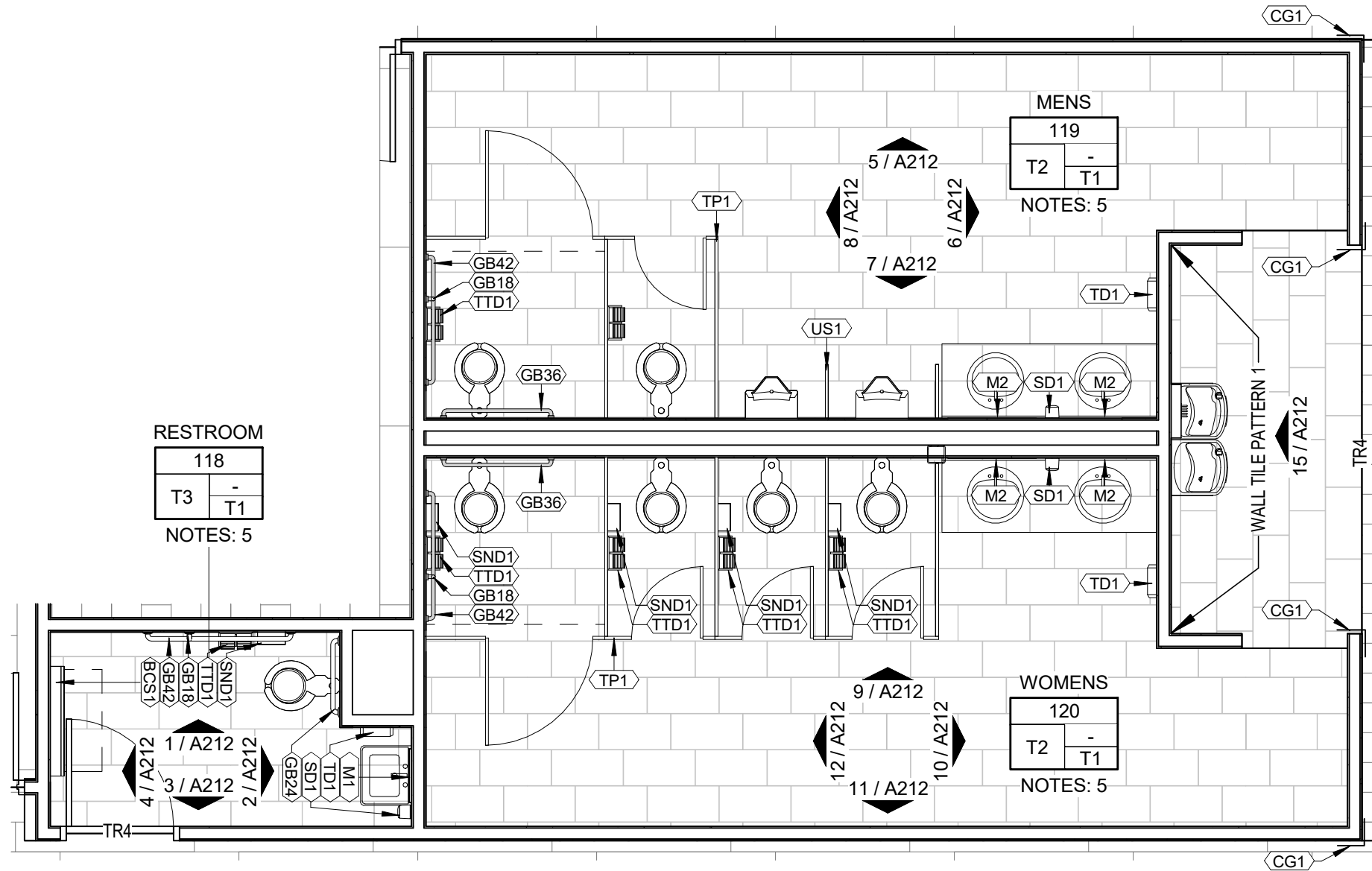
FIRST FLOOR PLAN

JOB 2023.14
ISSUE 03.03.2025
DRAWN BY: BG
CHKD BY: SE

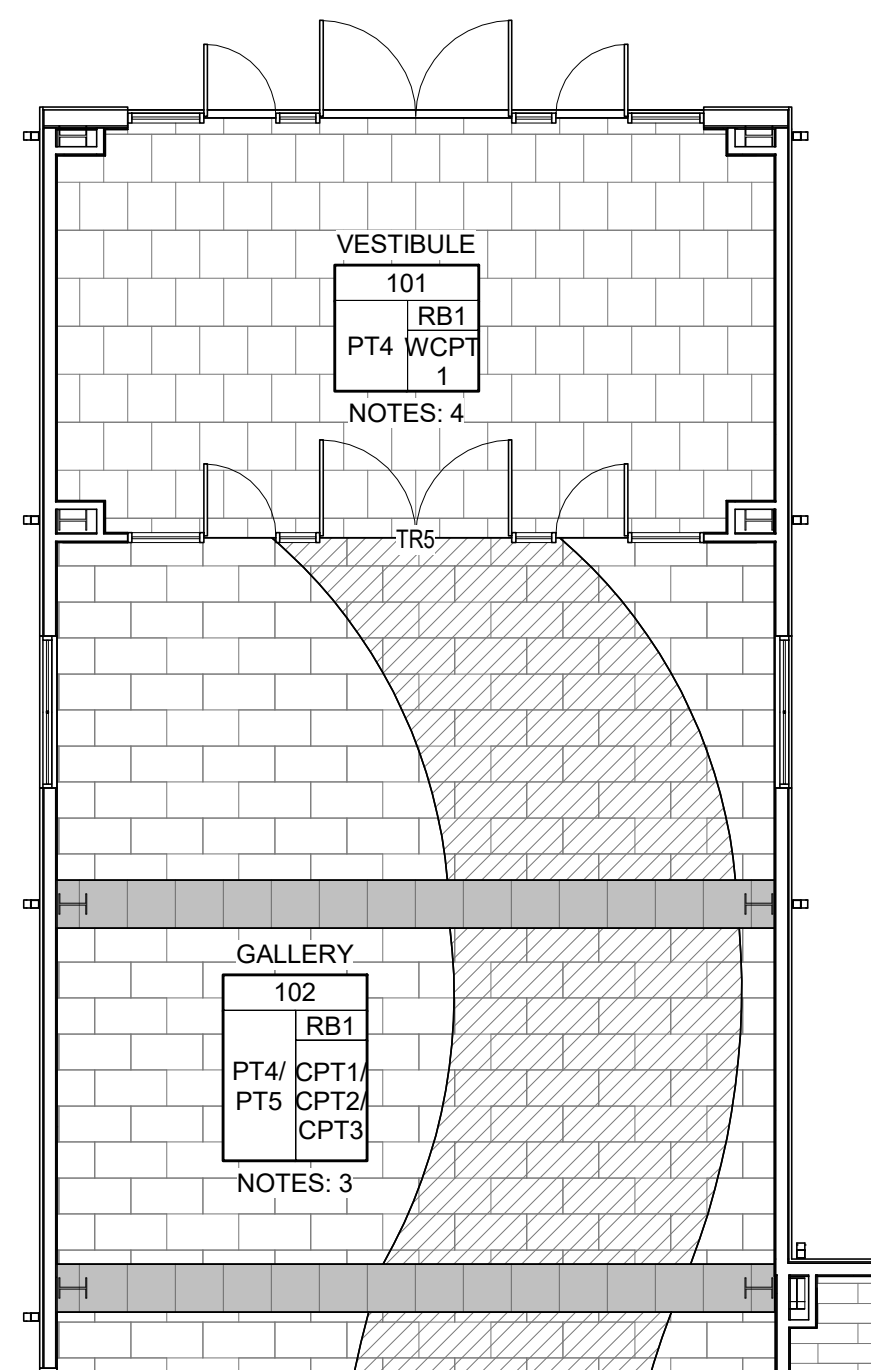
A101.1
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04.09.2025

3/4/2025 11:13:12 AM



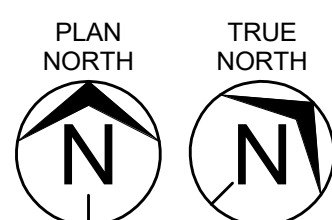
3 ENLARGED RESTROOM FINISH PLAN 118, 119, 120
1/4" = 1'-0" 1/A101.2



2 FIRST FLOOR FINISH PLAN - CANOPY
1/8" = 1'-0"

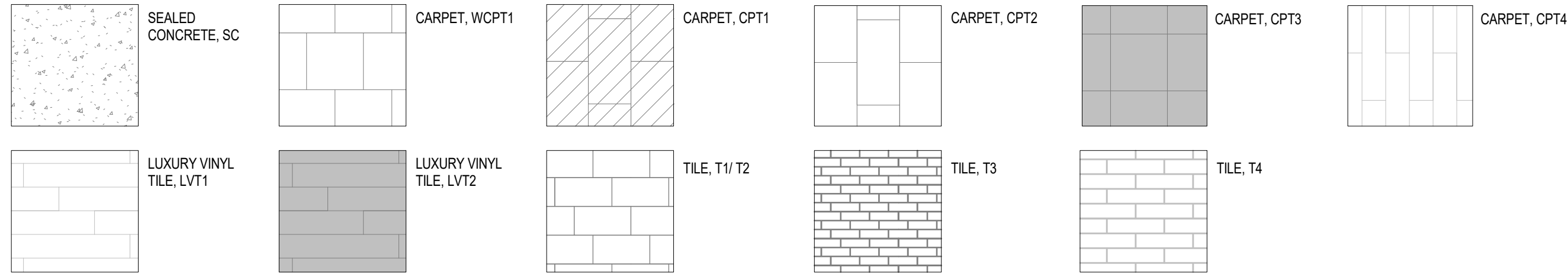


1 FIRST FLOOR FINISH PLAN - BUILDING
1/8" = 1'-0"



MATERIALS LEGEND

RE: SPECIFICATIONS, FLOOR FINISH PLAN AND ROOM FINISH SCHEDULE FOR LOCATIONS



INTERIORS / FINISHES NOTES

- REFER TO NORTH DIRECTIONAL ARROWS ON PLANS.
- HOLLOW METAL DOORS/FRAMES & INTERIOR WINDOW FRAMES (NEW & EXISTING) SHALL BE PAINTED PT2, UNLESS OTHERWISE NOTED.
- ALL FINISHES IN EXITS SHALL BE CLASS A RATED. ALL FINISHES IN CORRIDORS SHALL BE CLASS A OR CLASS B RATED.
- THE FOLLOWING SHALL BE PAINTED UNLESS OTHERWISE STATED:
 - EXPOSED SPRINKLER PIPING, ELECTRICAL CONDUIT, AND WIRE MOLDING IN FINISHED AREAS.
 - EXPOSED DUCTWORK IN FINISHED AREAS.
 - EXPOSED BEAMS, JOISTS, DECK, AND COLUMNS IN FINISHED AREAS.
 - INTERIOR LINTELS.
 - INTERIOR HANDRAILS & GUARDRAILS.
 - INTERIOR STEEL LADDERS, EP-PT1, TYP.
 - EXPOSED CEILING IN ROOM 227 TO BE PAINTED PT9 ABOVE 11'-7".
- EXPOSED CEILINGS SHALL BE PAINTED PT1, UNLESS OTHERWISE NOTED. REFER TO INTERIOR / FINISH PLANS FOR FLOOR FINISH PATTERNS AND DETAILS.
- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISH INFORMATION.
- CEILING, FLOORS, AND WALLS IN FOOD PREPARATION AND SERVING AREAS SHALL BE WASHABLE.
- PAINT EXPOSED COLUMNS, TO MATCH ADJACENT WALLS, UNLESS OTHERWISE NOTED.
- PAINT PT6 AT ALL EXPOSED SURFACES AND EDGES OF BALCONY AND STAIR GUARD RAIL, HANDRAIL, STRINGERS, AND UNDERSIDE OF TREADS AND RISERS.
- NO EXPOSED RAW TILE EDGES. REFER TO FINISH & MATERIAL LEGEND FOR TRANSITIONS.
- WATERJET CUT LVT FLOORING AT CLASSROOM ENTRANCES AND CHECK-IN FOR SEAMLESS CURVED DESIGN.

INTERIORS COMMENTS

- INSTALL LVT14 DROP.
- INSTALL CARPET BASKETWEAVE.
- INSTALL CARPET ASHLAR.
- INSTALL CARPET BRICK.
- INSTALL FLOOR TILE 1/3 OFFSET.

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03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

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BROKEN ARROW, OKLAHOMA 74011

REVISIONS

FIRST FLOOR FINISH PLAN

JOB: 2023.14
ISSUE: 03.03.2025
DRAWN BY: MW
CHKD BY: BG

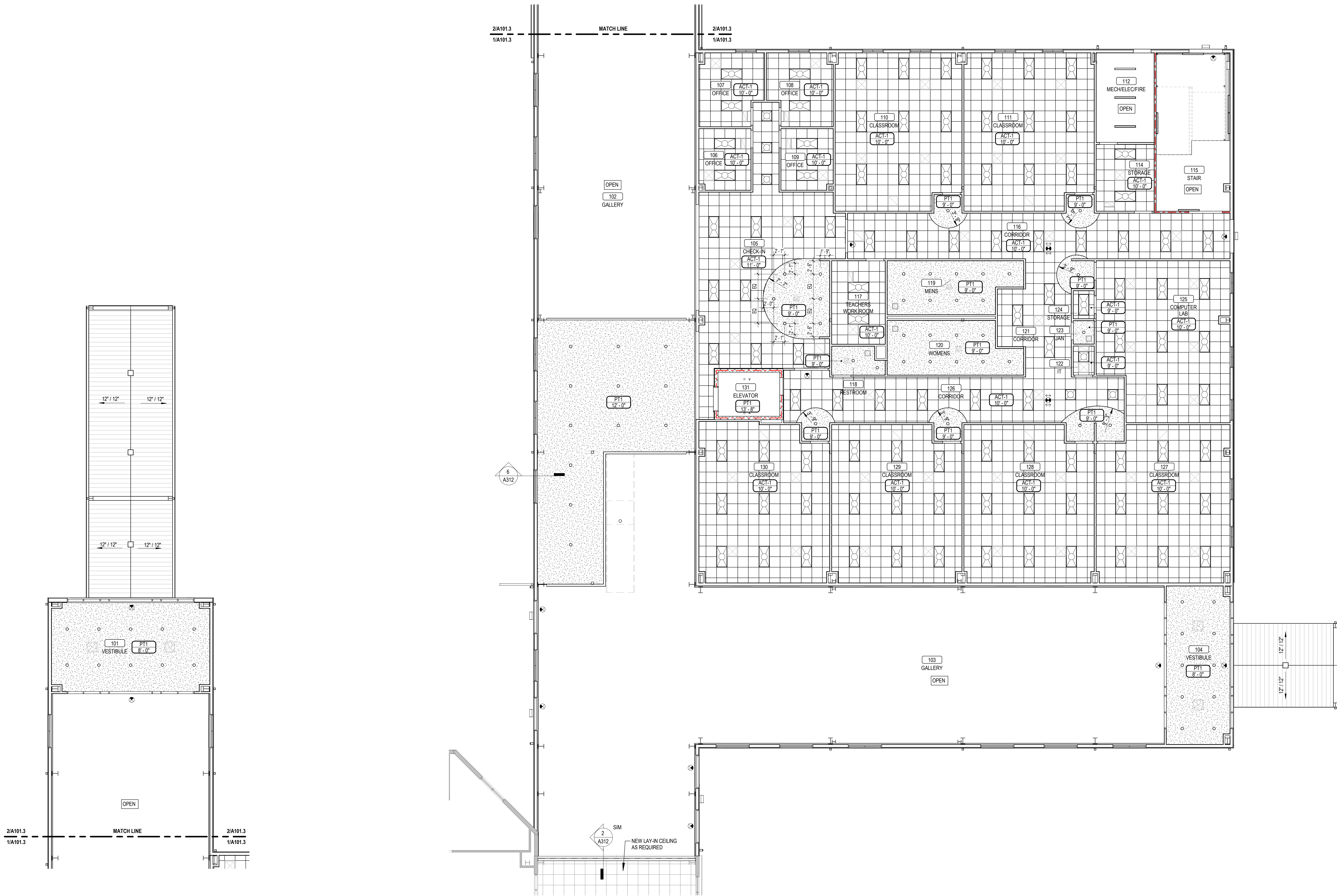
A101.2

SCALE: As indicated

3/3/2025

CEILING LEGEND

	GYPSUM BOARD CEILING		2'x4' LIGHT FIXTURE		PENDANT LIGHT
	LAY-IN CEILING - 2'x2' GRID		2'x2' LIGHT FIXTURE		WALL MOUNTED LIGHT FIXTURE
	METAL SOFFIT PANEL		DOWNLIGHT		SUPPLY DIFFUSER
	EXIT SIGN & TRAVEL DIRECTION		4' LINEAR UTILITY STRIP LIGHT		RETURN DIFFUSER
			CANOPY LIGHT		EXHAUST FAN



2 FIRST FLOOR REFLECTED CEILING PLAN - CANOPY
1/8" = 1'-0"

1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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EVERGREEN BAPTIST
CHURCH - PHASE 5

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FIRST FLOOR REFLECTED
CEILING PLAN

JOB: 2023.14
ISSUE: 03.03.2025
DRAWN BY: BG
CHKD BY: SE

A101.3

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

3/3/2025

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EVERGREEN BAPTIST
CHURCH - PHASE 5

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BROKEN ARROW, OKLAHOMA 74011

REVISIONS

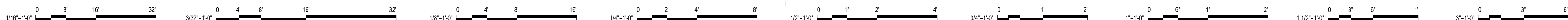
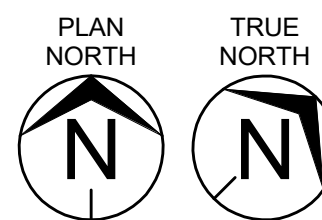
OVERALL SECOND FLOOR PLAN

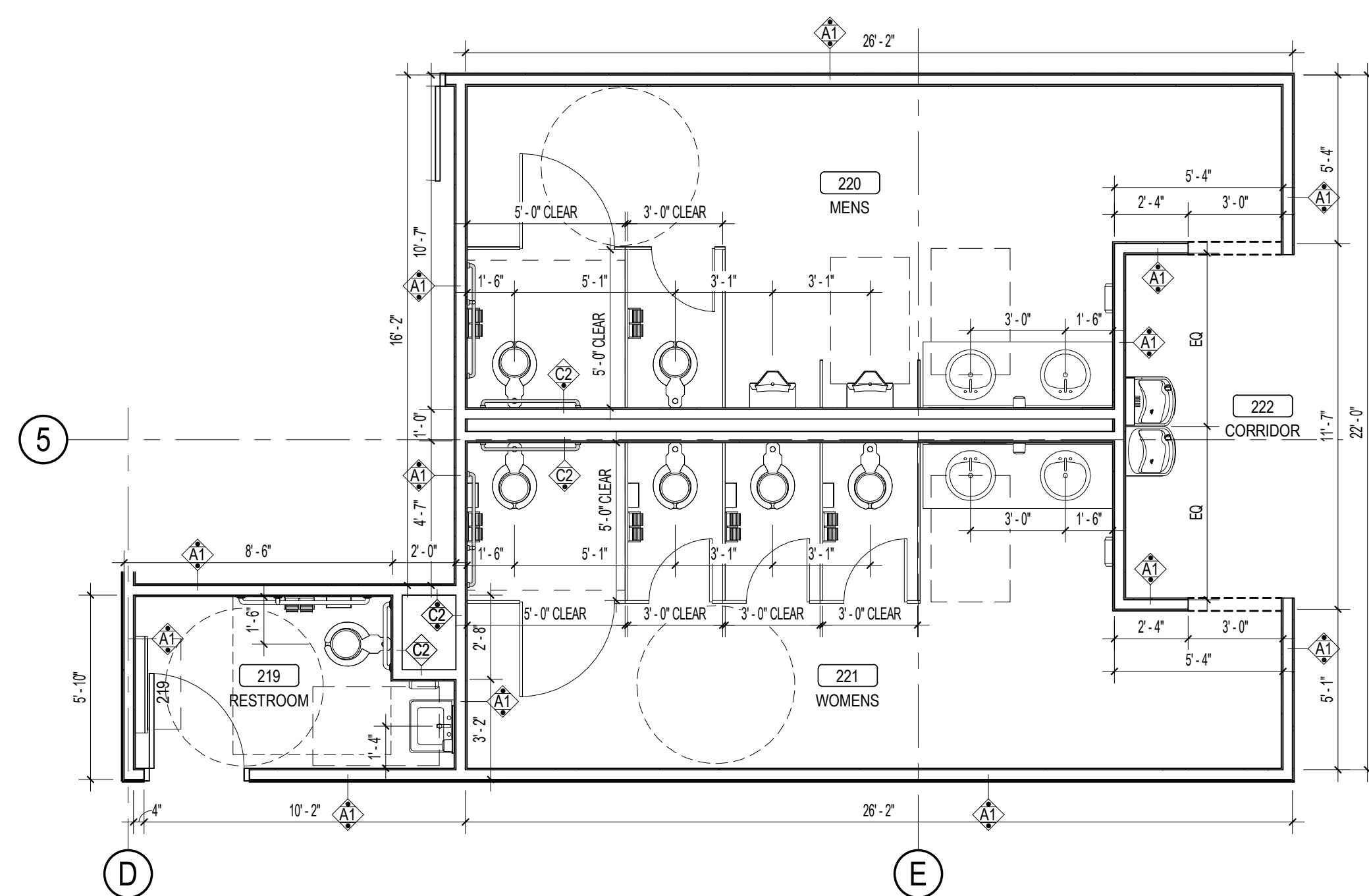
JOB: 2023.14
ISSUE: 03.03.2025
DRAWN BY: BG
CHKD BY: SE

A102
SCALE: 3/8" = 1'-0"

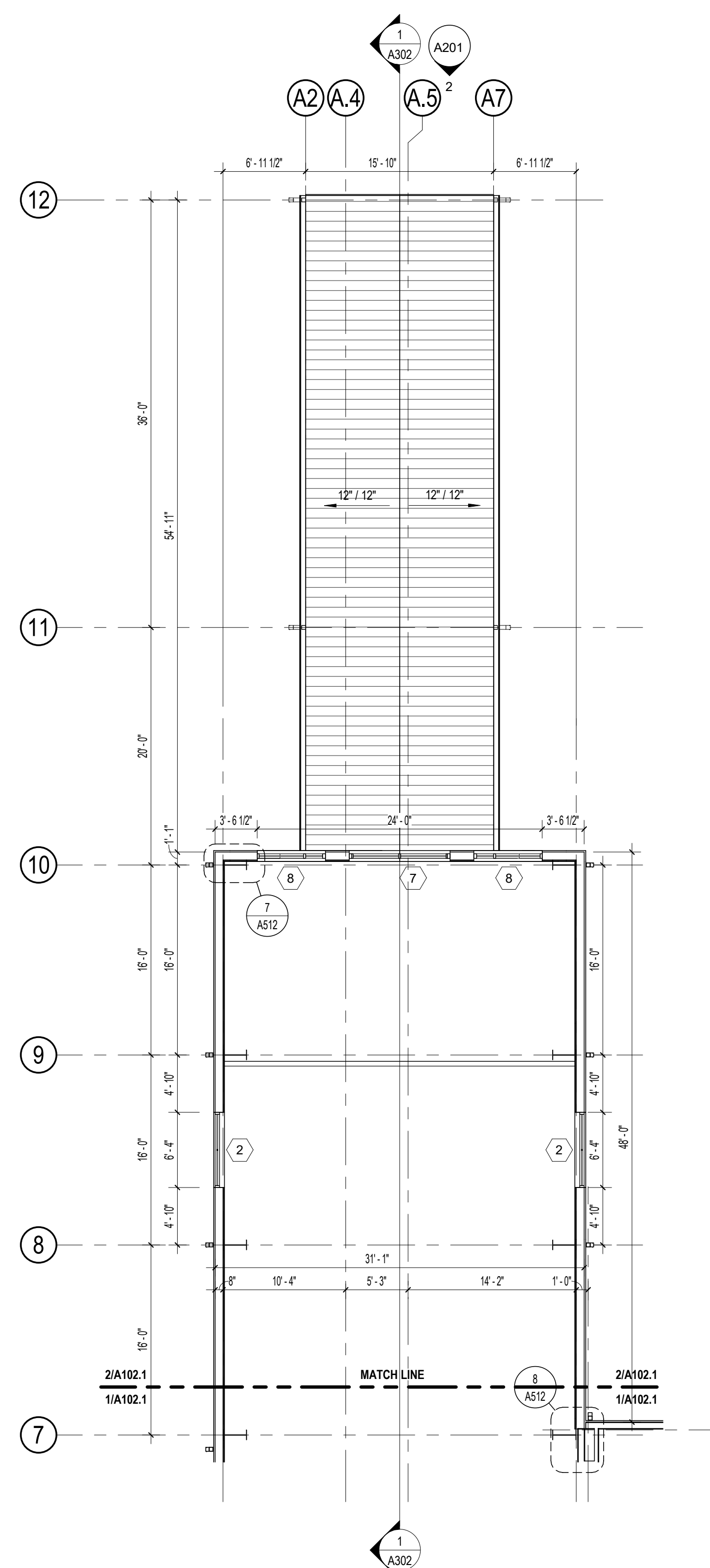
3/3/2025

1 OVERALL SECOND FLOOR PLAN
3/8" = 1'-0"

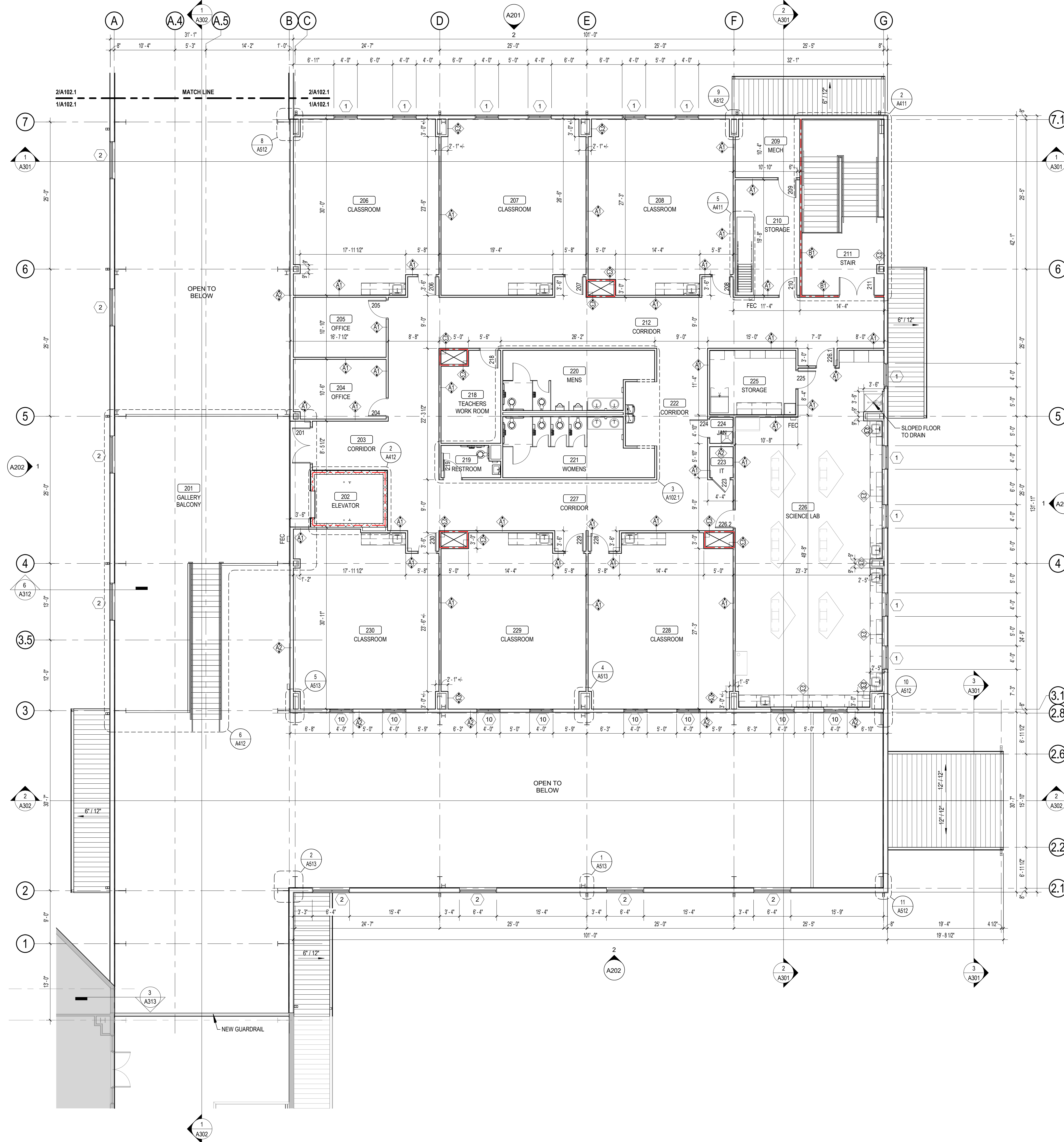




3 ENLARGED RESTROOM PLAN 219, 220, 221
1/4" = 1'-0"



2 SECOND FLOOR LEVEL - CANOPY
1/8" = 1'-0"



1 SECOND FLOOR PLAN
1/8" = 1'-0"

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1 04.09.2025 REVW2

SECOND FLOOR PLAN

JOB 2023.14

ISSUE 03.03.2025

DRAWN BY: BG

CHKD BY: SE

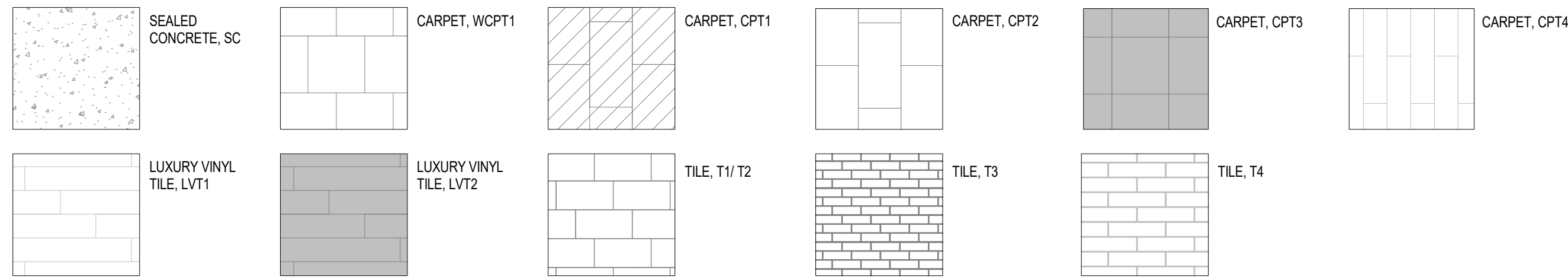
A102.1

SCALE As indicated

04.09.2025

MATERIALS LEGEND

RE: SPECIFICATIONS, FLOOR FINISH PLAN AND ROOM FINISH SCHEDULE FOR LOCATIONS

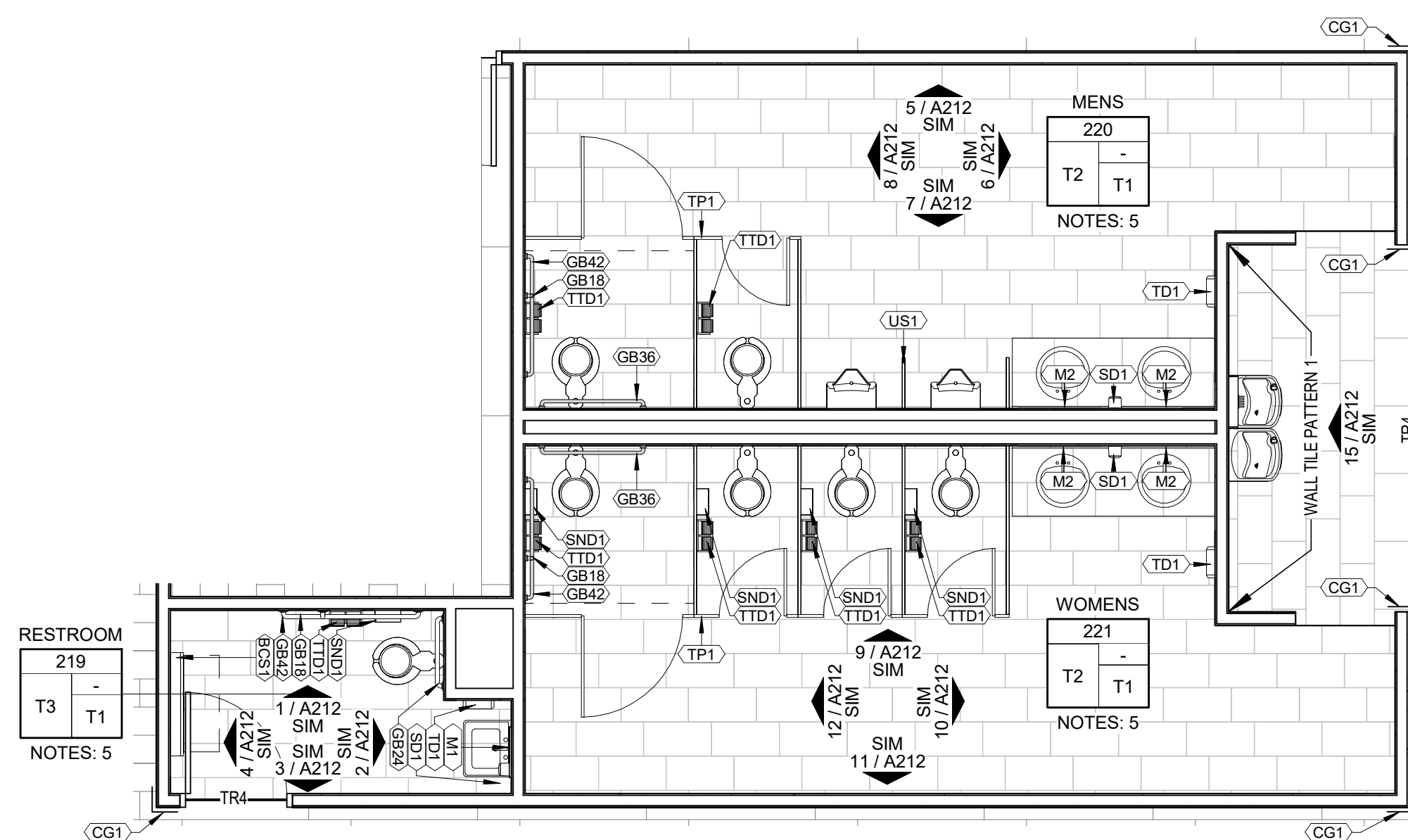


INTERIORS / FINISHES NOTES

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 - EXPOSED DUCTWORK IN FINISHED AREAS.
 - EXPOSED BEAMS, JOISTS, DECK, AND COLUMNS IN FINISHED AREAS.
 - INTERIOR UNTELS.
 - INTERIOR HANDRAILS & GUARDRAILS.
 - INTERIOR STEEL LADDERS, EP-PT1, TYP.
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- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISH INFORMATION.
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- PAINT EXPOSED COLUMNS, TO MATCH ADJACENT WALLS, UNLESS OTHERWISE NOTED.
- PAINT PT6 AT ALL EXPOSED SURFACES AND EDGES OF BALCONY AND STAIR GUARD RAIL, HANDRAIL, STRINGERS, AND UNDERSIDE OF TREADS AND RISERS.
- NO EXPOSED RAW TILE EDGES. REFER TO FINISH & MATERIAL LEGEND FOR TRANSITIONS.
- WATERJET CUT LVT FLOORING AT CLASSROOM ENTRANCES AND CHECK-IN FOR SEAMLESS CURVED DESIGN.

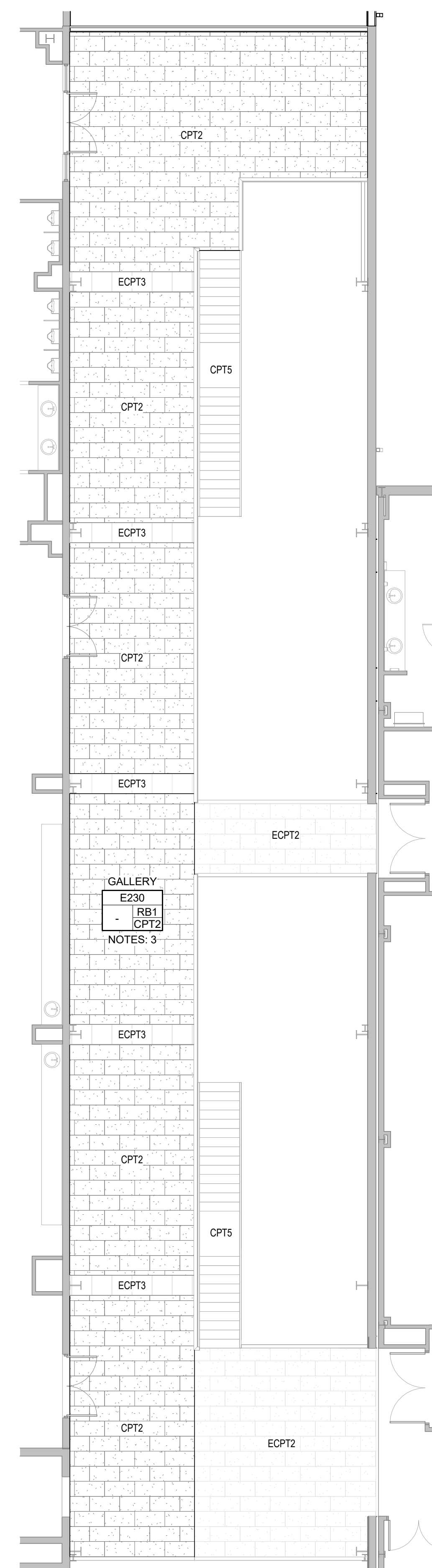
INTERIORS COMMENTS

- INSTALL LVT14 DROP.
- INSTALL CARPET BASKETWEAVE.
- INSTALL CARPET ASHLAR.
- INSTALL CARPET BRICK.
- INSTALL FLOOR TILE 1/3 OFFSET.



2 ENLARGED RESTROOM FINISH PLAN 219, 220, 221

1/4" = 1'-0" 1/ A102.2



3 SECOND FLOOR FINISH PLAN -PHASE 3

1/8" = 1'-0"



1 SECOND FLOOR FINISH PLAN

1/8" = 1'-0"

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DOCUMENTS
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EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
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REVISIONS

1 04.09.2025 REV#2

SECOND FLOOR FINISH PLAN

JOB 2023.14
ISSUE 03.03.2025
DRAWN BY: MW
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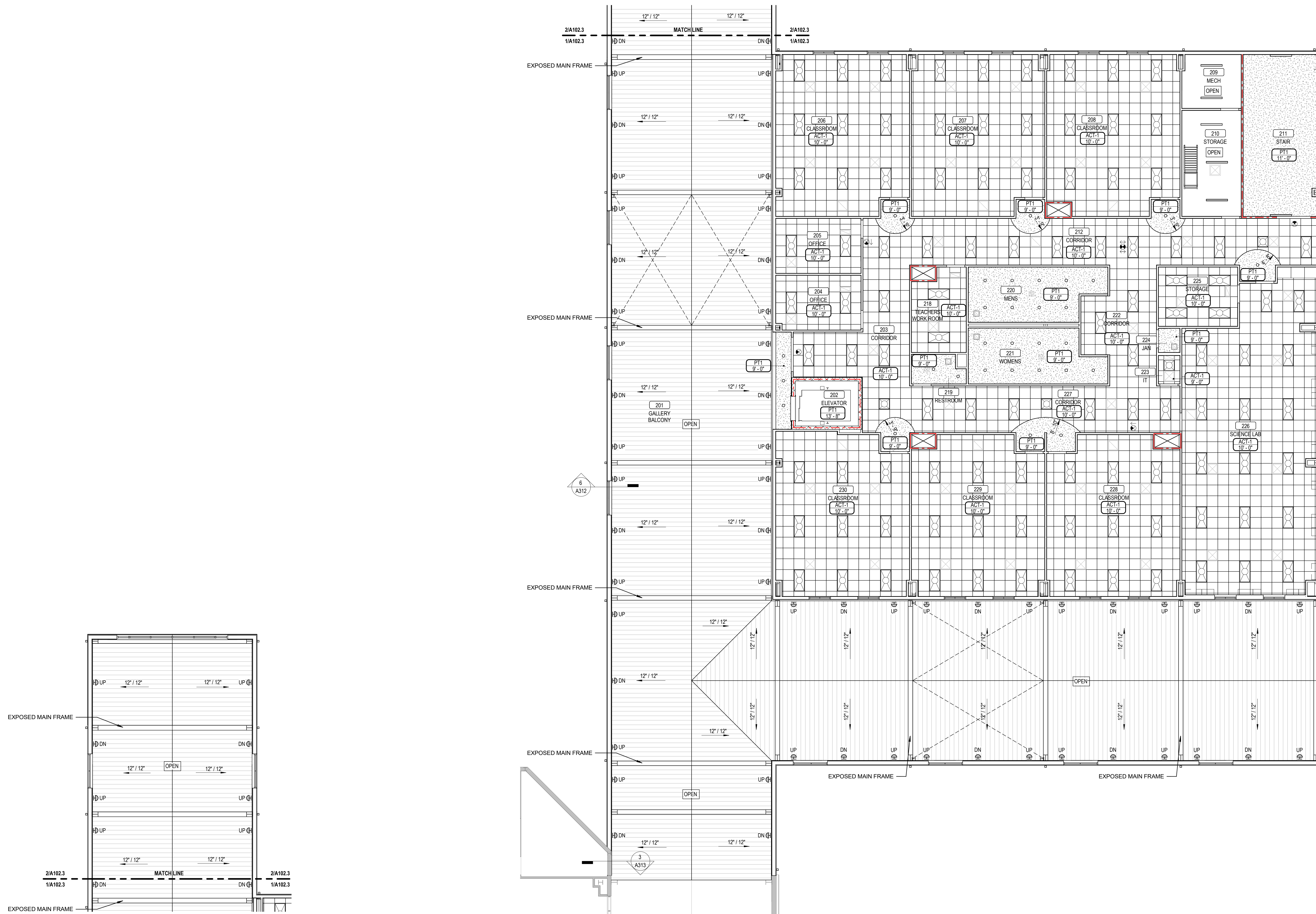
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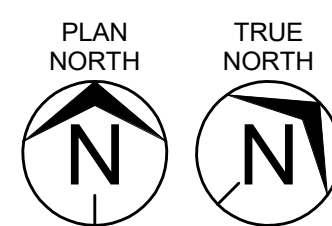
04.09.2025

CEILING LEGEND

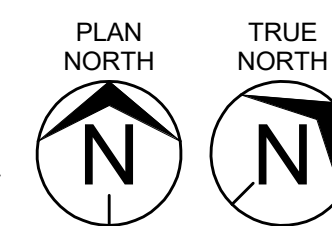
	GYPSUM BOARD CEILING		2'x4' LIGHT FIXTURE		PENDANT LIGHT
	LAY-IN CEILING - 2'x2' GRID		2'x2' LIGHT FIXTURE		WALL MOUNTED LIGHT FIXTURE
	METAL SOFFIT PANEL		DOWNLIGHT		SUPPLY DIFFUSER
	EXIT SIGN & TRAVEL DIRECTION		4' LINEAR UTILITY STRIP LIGHT		RETURN DIFFUSER
			CANOPY LIGHT		EXHAUST FAN



2 SECOND FLOOR REFLECTED CEILING PLAN - CANOPY
1/8" = 1'-0"



1 SECOND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"



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EVERGREEN BAPTIST CHURCH - PHASE 5

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1 04.09.2025 REV#2

SECOND FLOOR REFLECTED CEILING PLAN

JOB 2023.14

ISSUE 03.03.2025

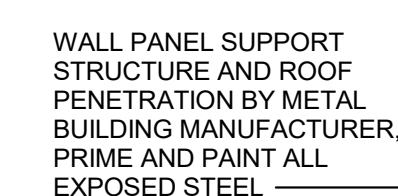
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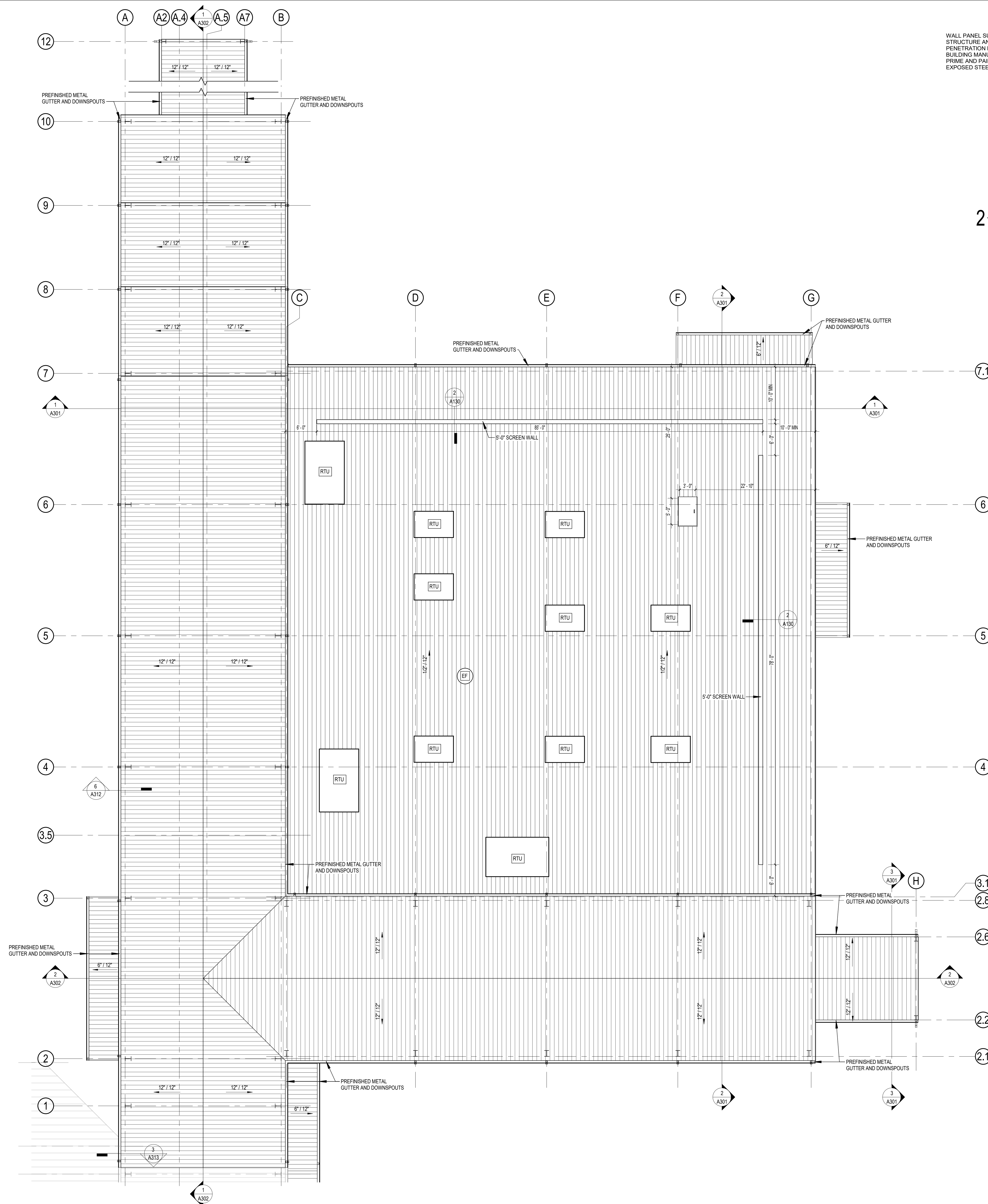
A102.3

SCALE 1/8" = 1'-0"

04.09.2025



2 ROOF SCREEN DETAIL



1 ROOF LEVEL
1/8" = 1'-0"

EVERGREEN BAPTIST CHURCH - PHASE 5

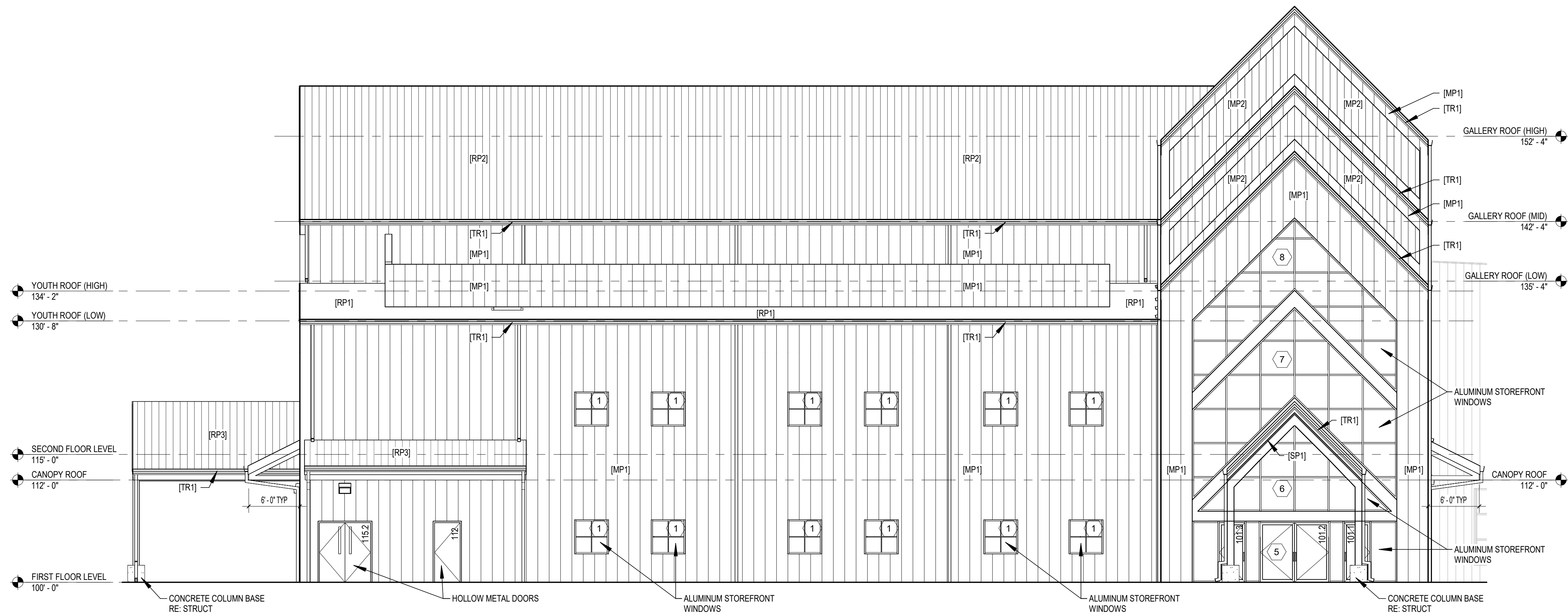
REVISIONS

JOB	2023.14
ISSUE	03.03.2
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CHK'D BY:	SE

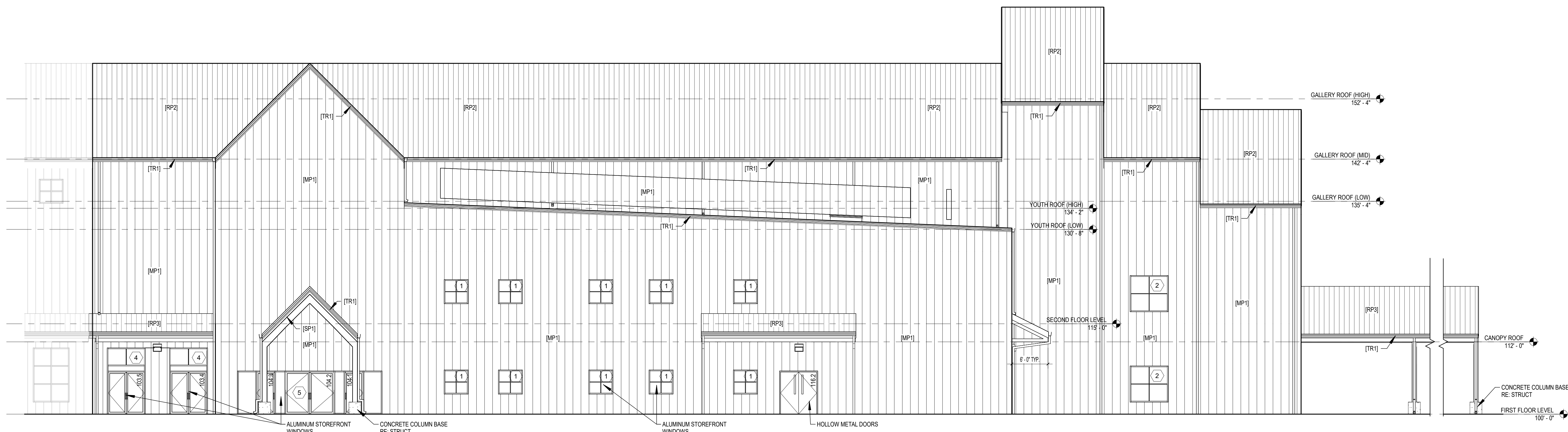
SCALE As indicated

3/3/2025

EXTERIOR MATERIALS LEGEND			
MARK	PATTERN	MATERIAL	COLOR COMMENTS
[MP1]		METAL WALL PANEL	REGAL WHITE PBR PANEL: KYNAR FINISH
[MP2]		METAL WALL PANEL	EVERGREEN PBR PANEL: KYNAR FINISH
[RP1]		METAL ROOF PANEL	GALVALUME ALLIANCE SEAM 24: (3")
[RP2]		METAL ROOF PANEL	EVERGREEN ALLIANCE SEAM 24: (3") KYNAR FINISH
[RP3]		METAL ROOF PANEL (CANOPY)	EVERGREEN ALLIANCELOK 16: (STRIATED)(2") KYNAR FINISH
[SP1]		METAL SOFFIT PANEL	ASH GRAY A-12 (BEADED); WEATHER-XL FINISH
[TR1]		METAL RAKE & TRIM	ASH GRAY MATCH EXISTING; WEATHER-XL FINISH
NOTES			
1. GUTTER AND DOWNSPOUT COLOR: ASH GRAY			
2. EXPOSED STEEL TO BE PAINTED; REGAL WHITE			
3. EXTERIOR HOLLOW METAL DOORS AND FRAMES COLOR: MATCH EXISTING			
4. EXTERIOR STOREFRONT FRAMING COLOR: CLEAR ANODIZED #14 - MATCH EXISTING			



2 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"



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

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EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
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BUILDING ELEVATIONS

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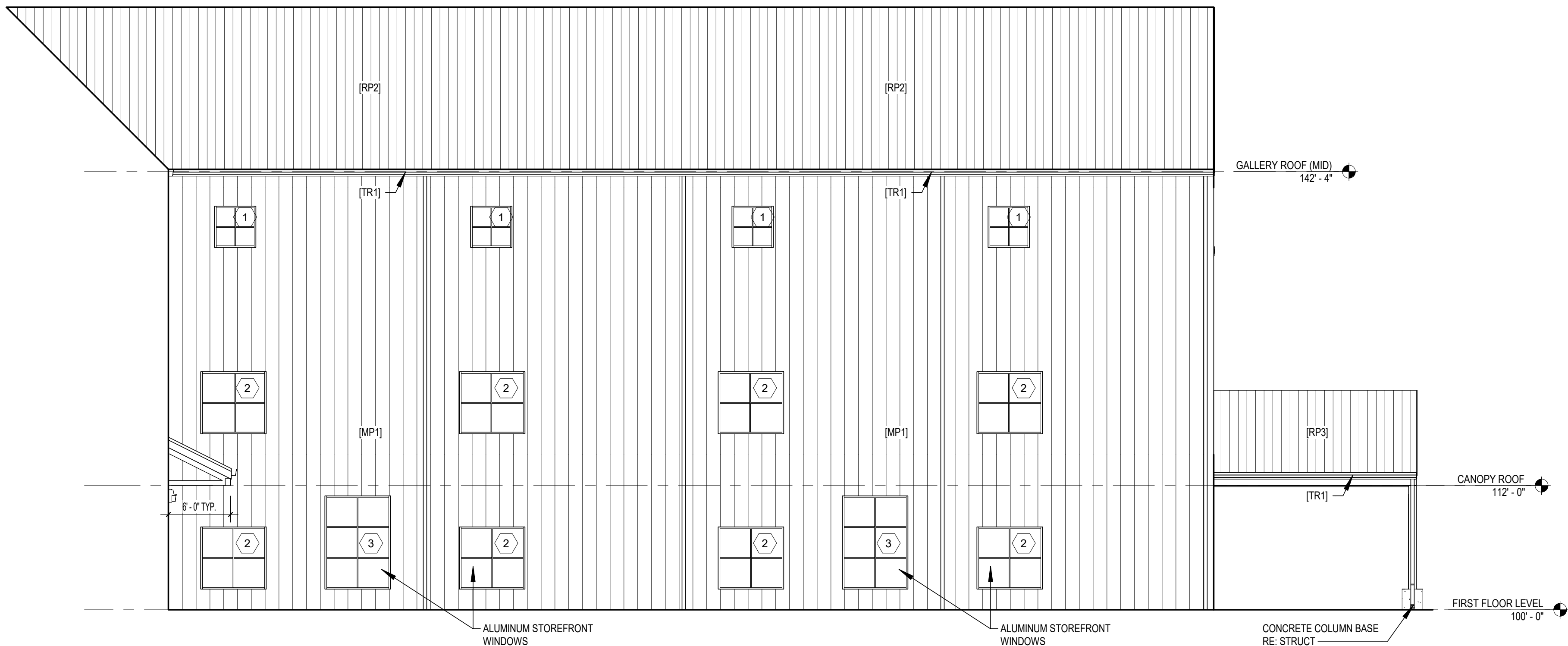
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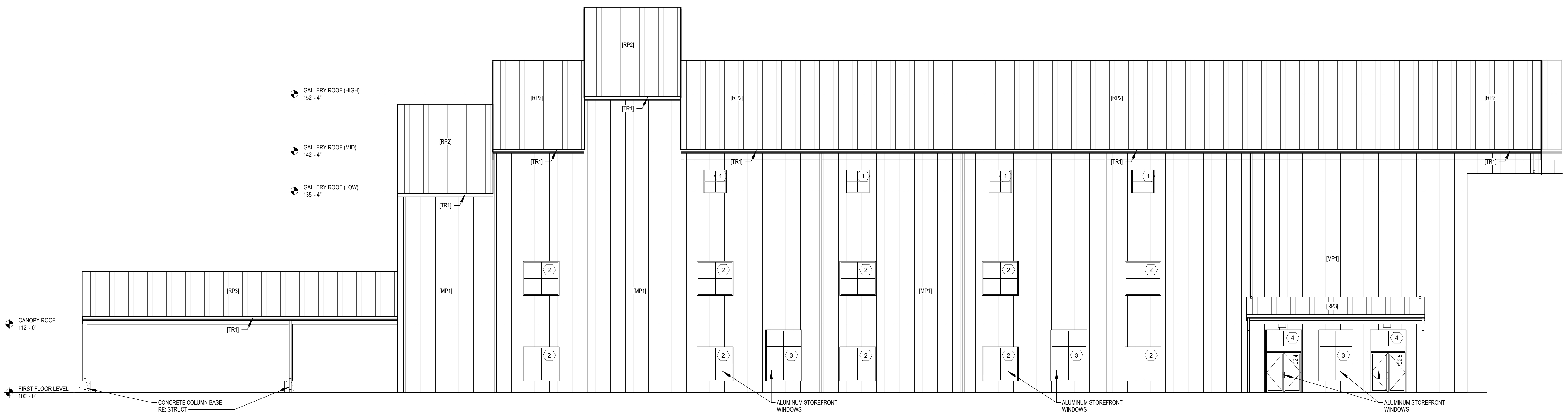
3/3/2025

EXTERIOR MATERIALS LEGEND				
MARK	PATTERN	MATERIAL	COLOR	COMMENTS
[MP1]		METAL WALL PANEL	REGAL WHITE	PBR PANEL; KYNAR FINISH
[MP2]		METAL WALL PANEL	EVERGREEN	PBR PANEL; KYNAR FINISH
[RP1]		METAL ROOF PANEL	GALVALUME	ALLIANCE SEAM 24; (3")
[RP2]		METAL ROOF PANEL	EVERGREEN	ALLIANCE SEAM 24; (3"); KYNAR FINISH
[RP3]		METAL ROOF PANEL (CANOPY)	EVERGREEN	ALLIANCELOK 16; (STRIATED)(2"); KYNAR FINISH
[SP1]		METAL SOFFIT PANEL	ASH GRAY	A-12 (BEADED); WEATHER-XL FINISH
[TR1]		METAL RAKE & TRIM	ASH GRAY	MATCH EXISTING; WEATHER-XL FINISH

- NOTES:
- GUTTER AND DOWNSPOUT COLOR: ASH GREY
 - EXPOSED STEEL TO BE PAINTED; REGAL WHITE
 - EXTERIOR HOLLOW METAL DOORS AND FRAMES COLOR: MATCH EXISTING
 - EXTERIOR STOREFRONT FRAMING COLOR: CLEAR ANODIZED #14; MATCH EXISTING



2 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



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

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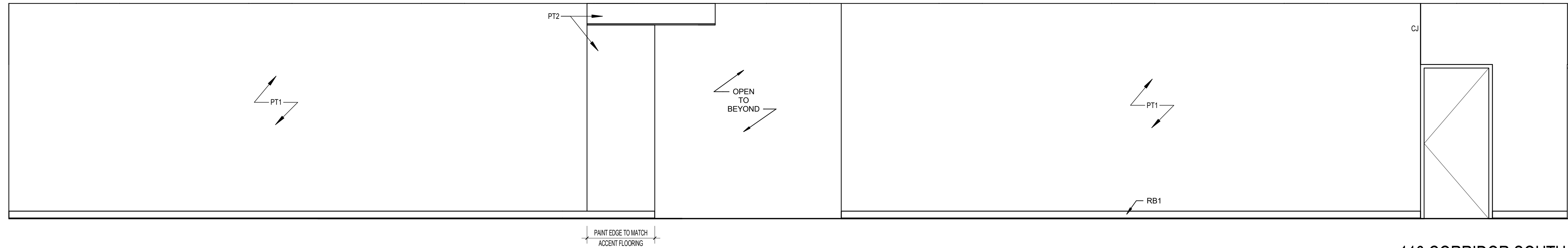
BUILDING ELEVATIONS

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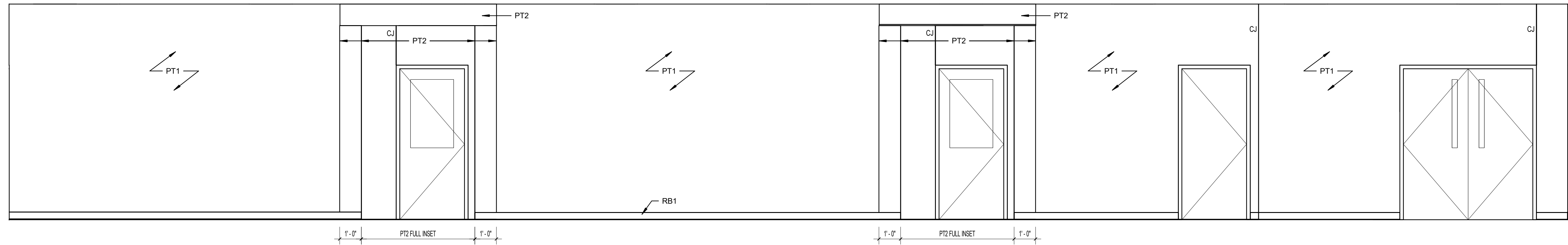
A202

SCALE: As Indicated

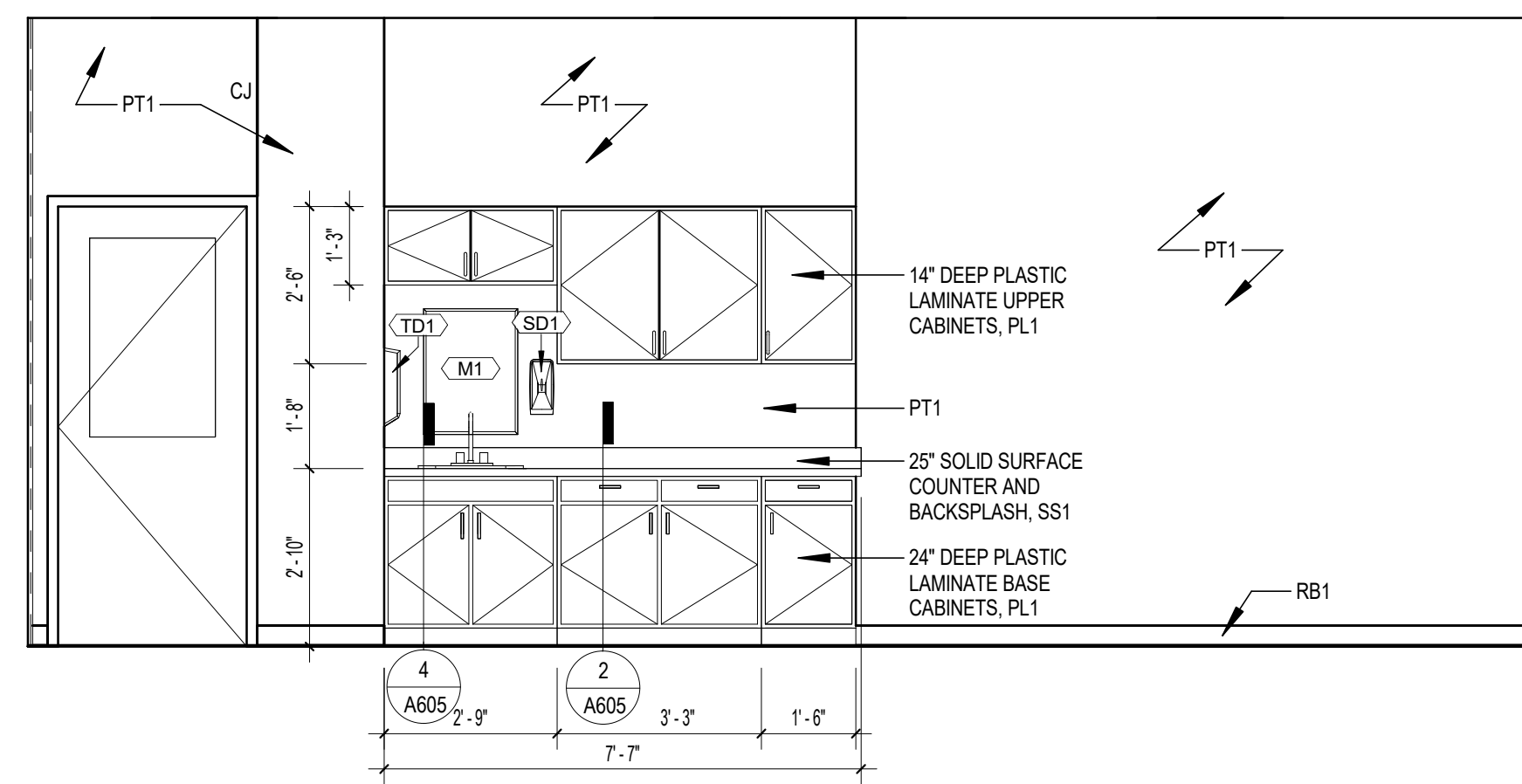
3/3/2025



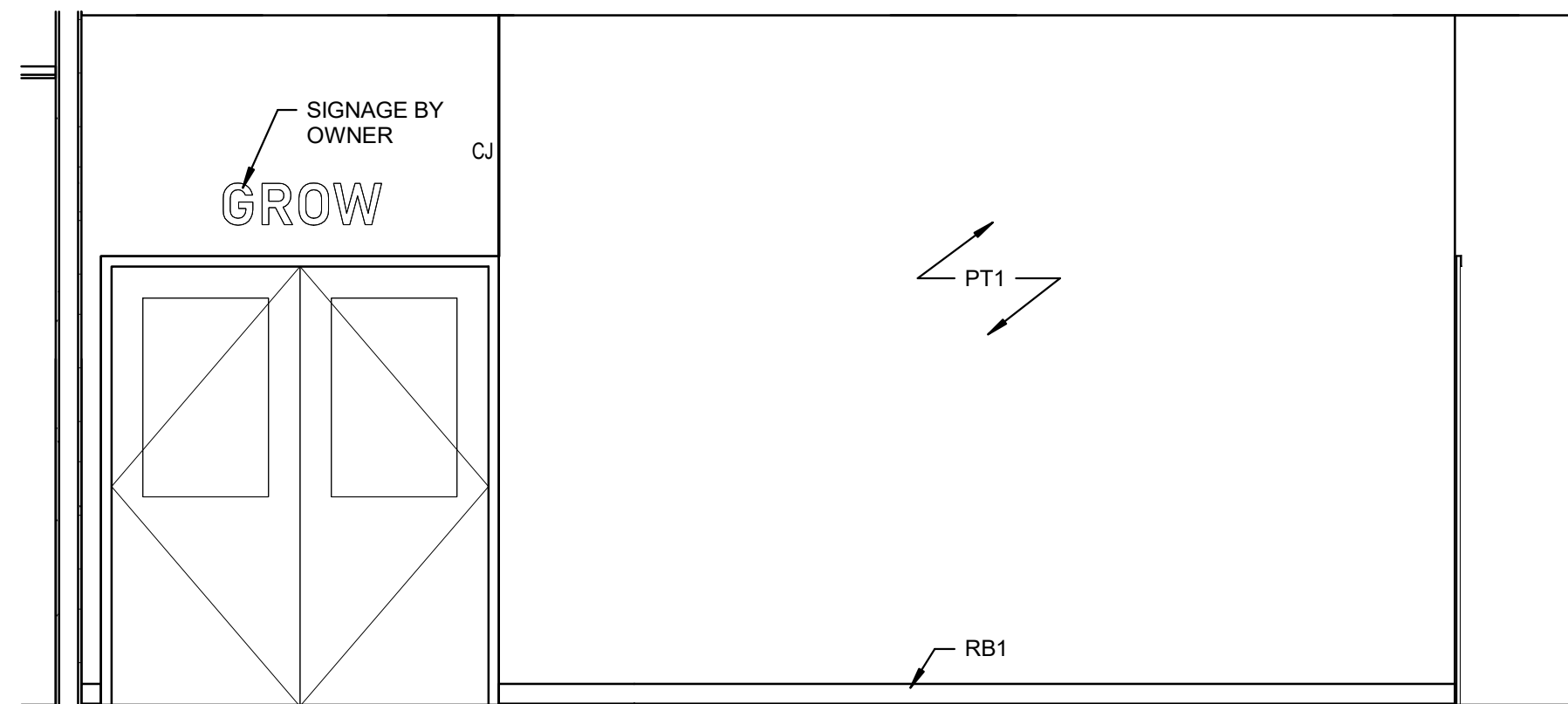
7 116 CORRIDOR SOUTH
3/8" = 1'-0" 1/ A101.2



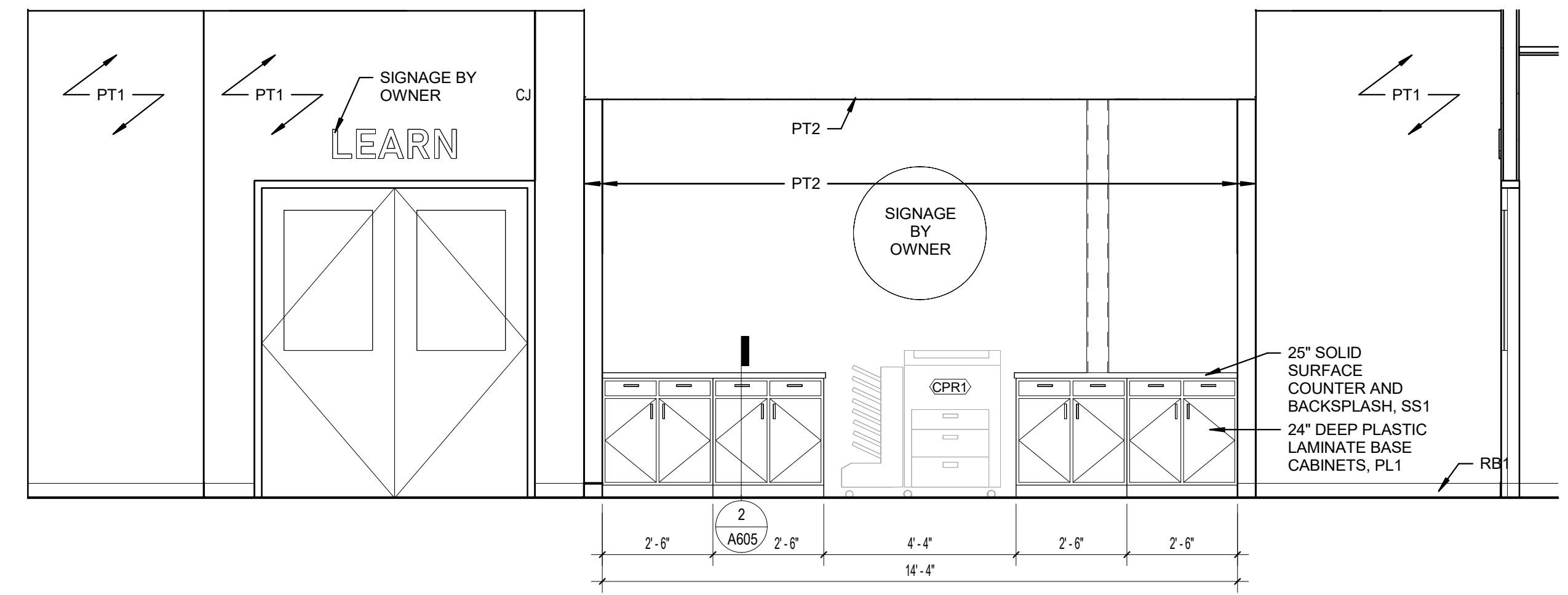
6 116 CORRIDOR NORTH
3/8" = 1'-0" 1/ A101.2



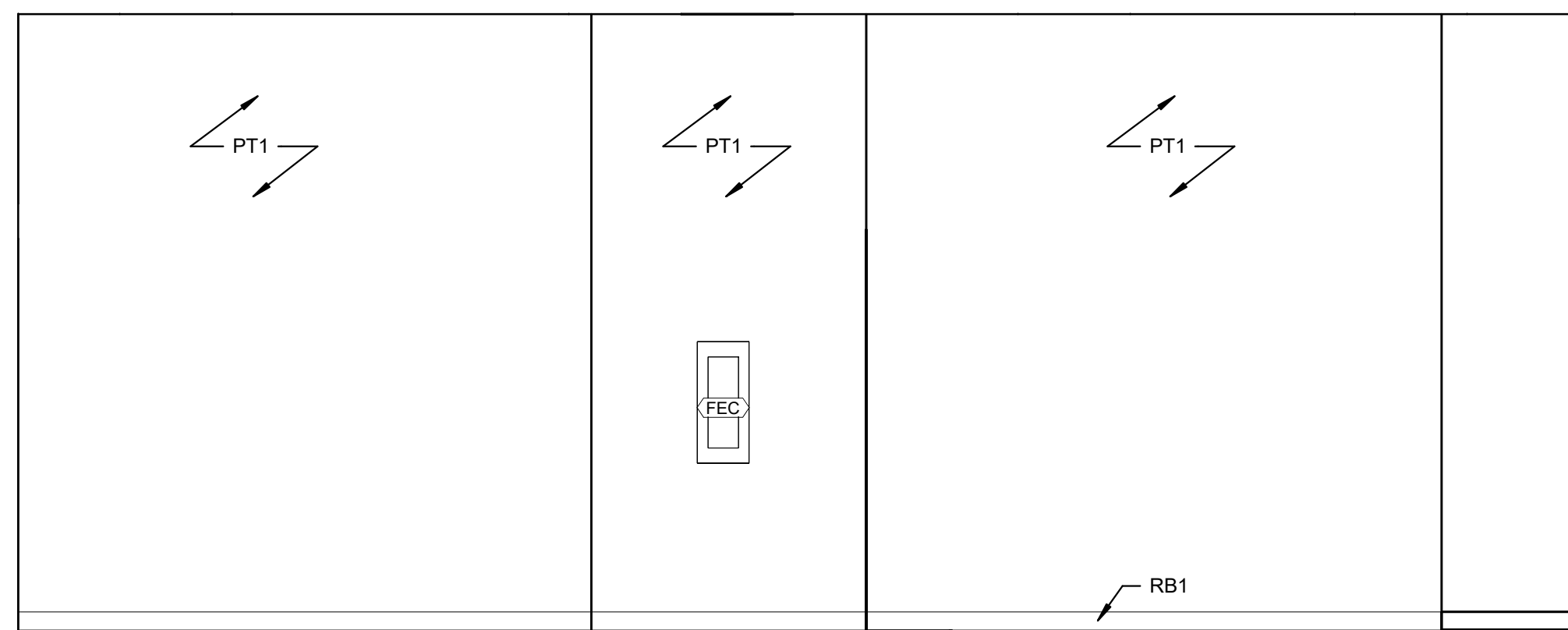
5 TYPICAL CLASSROOM MILLWORK
3/8" = 1'-0" 1/ A101.2



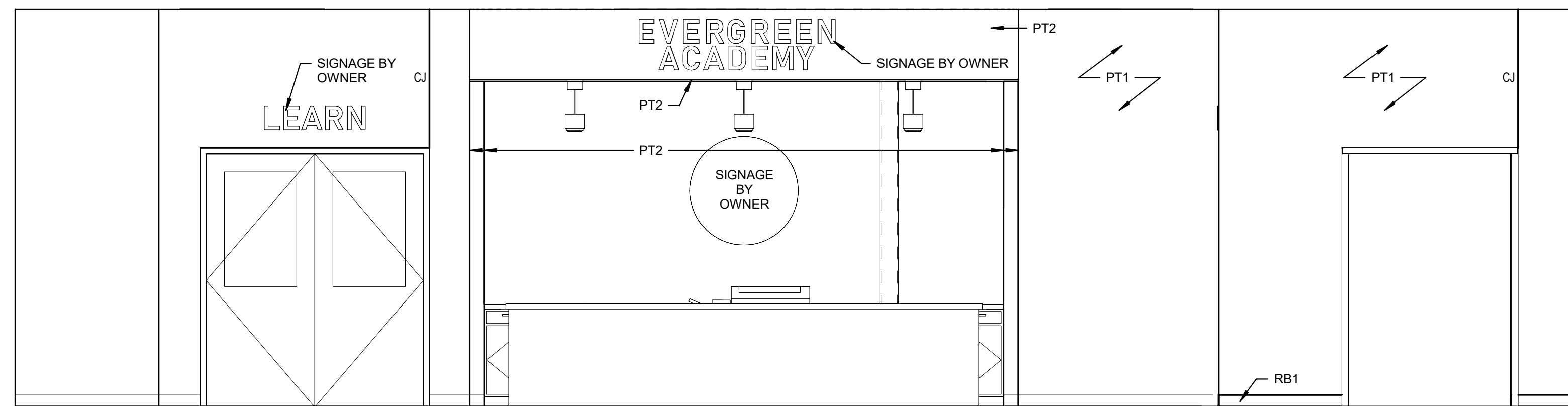
4 105 CHECK-IN SOUTH
3/8" = 1'-0" 1/ A101.2



3 105 CHECK-IN EAST
3/8" = 1'-0" 1/ A101.2



2 105 CHECK-IN NORTH
3/8" = 1'-0" 1/ A101.2



1 105 CHECK-IN
3/8" = 1'-0" 1/ A101.2

100% CONSTRUCTION
DOCUMENTS
03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

1 04.09.2025 REV#2

INTERIOR ELEVATIONS

JOB 2023.14

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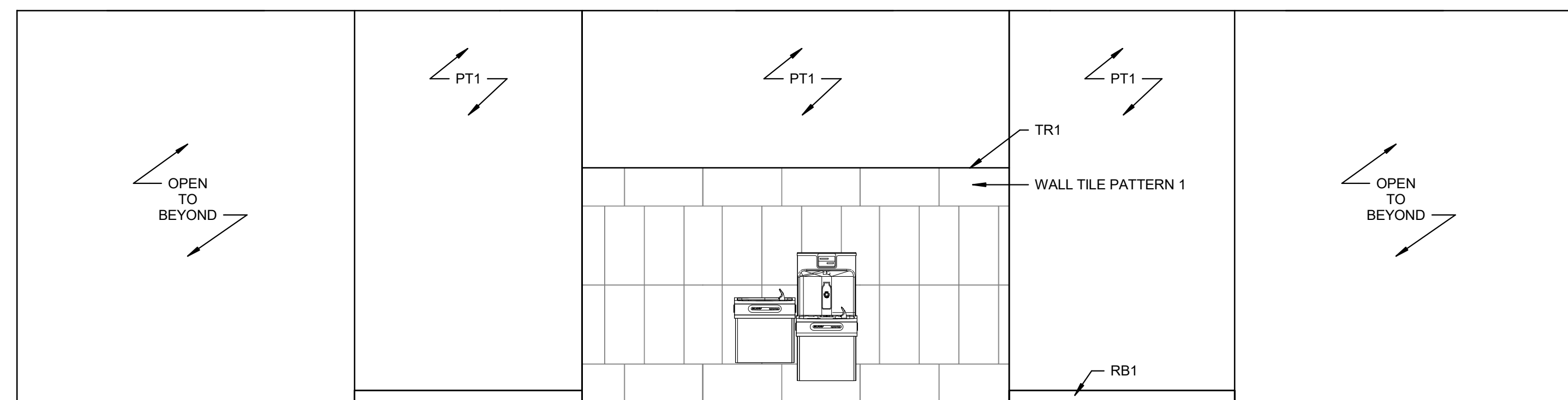
DRAWN BY: MW

CHKD BY: BG

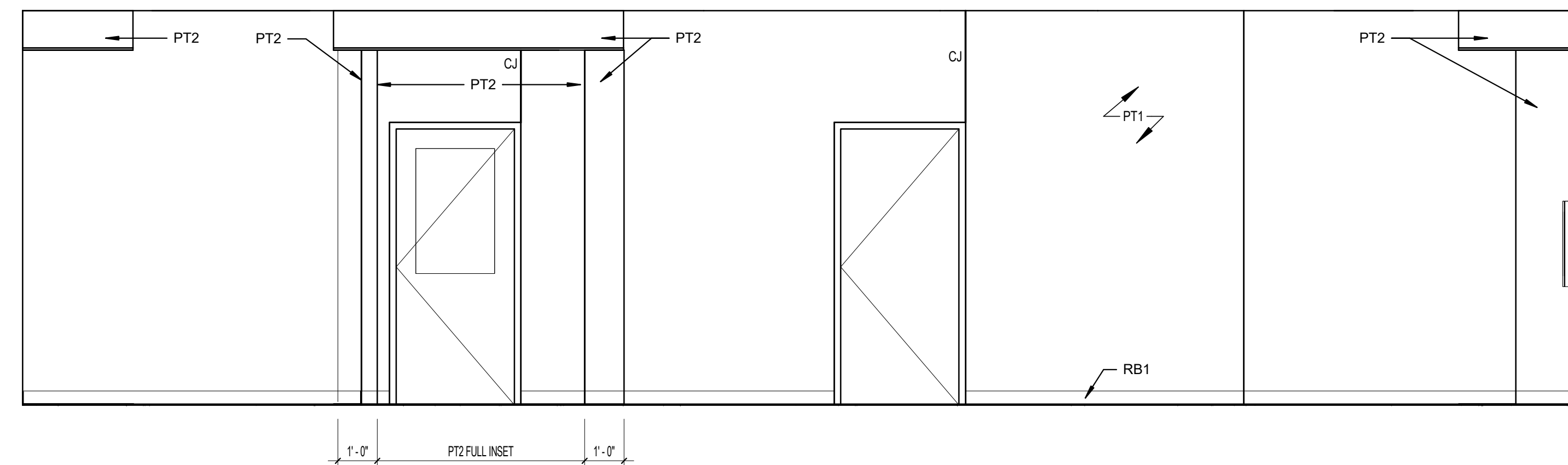
A211

SCALE 3/8" = 1'-0"

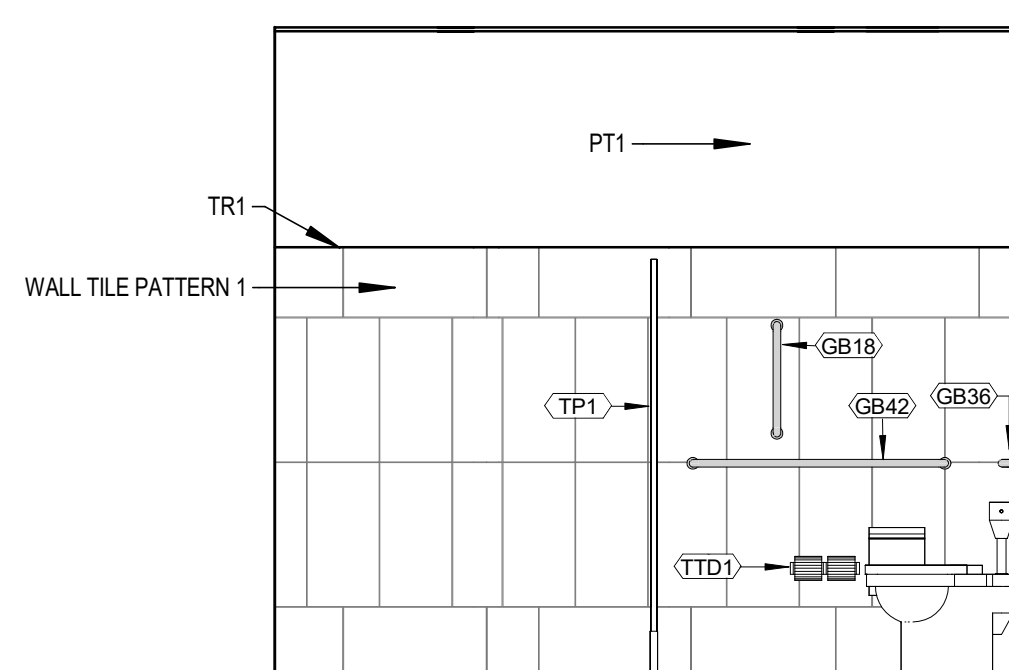
04.09.2025



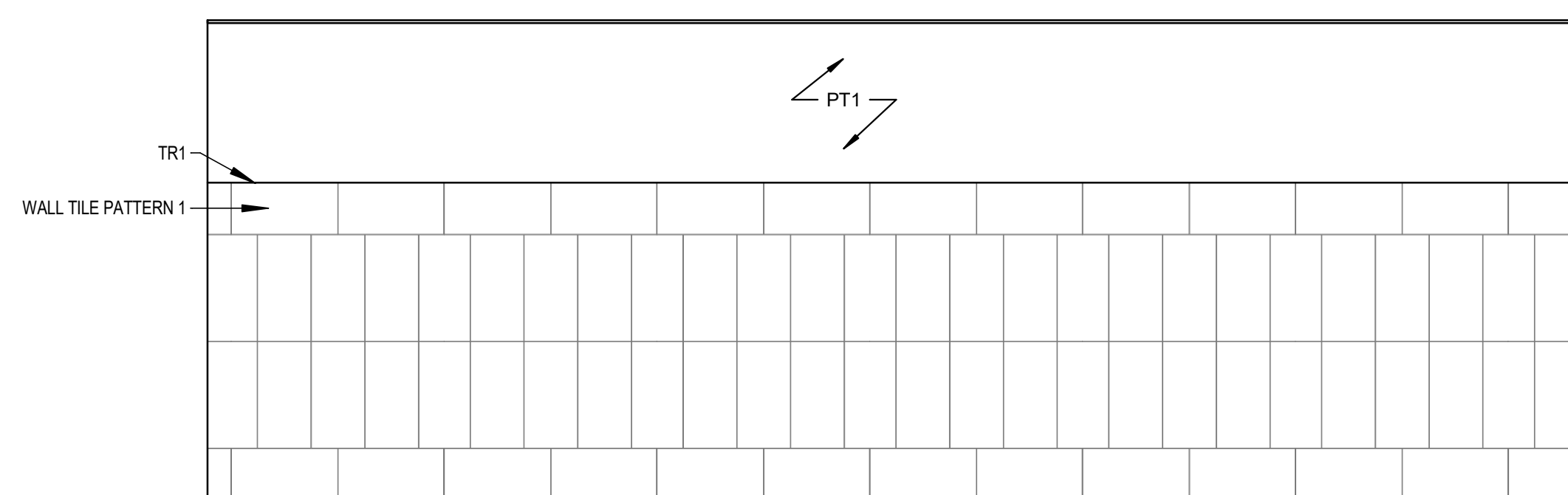
14 121 CORRIDOR WEST
3/8" = 1'-0" 1/ A101.2



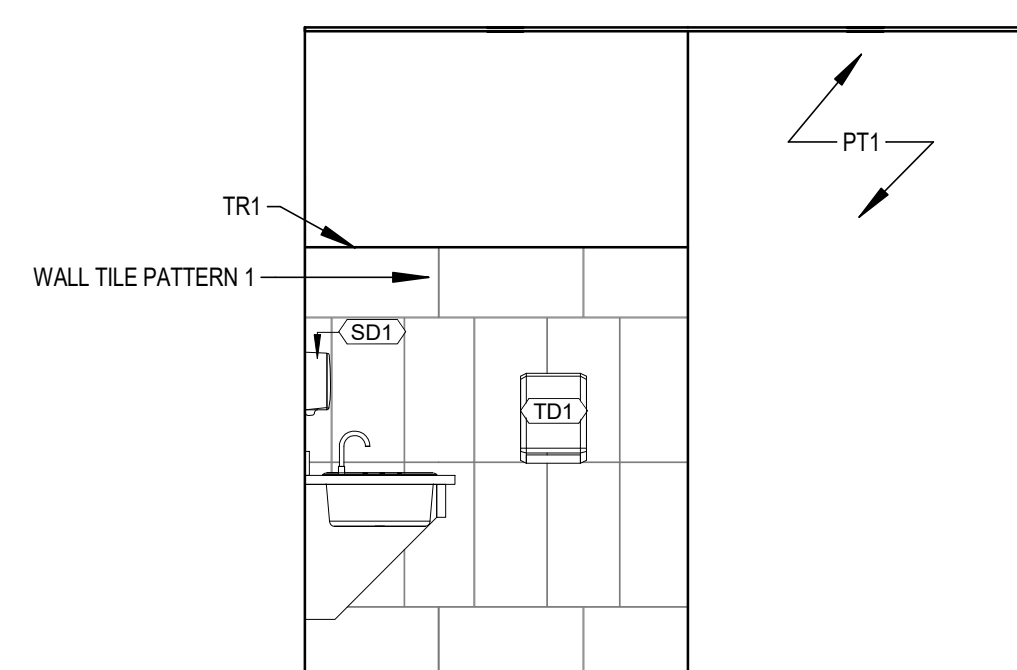
13 121 CORRIDOR EAST
3/8" = 1'-0" 1/ A101.2



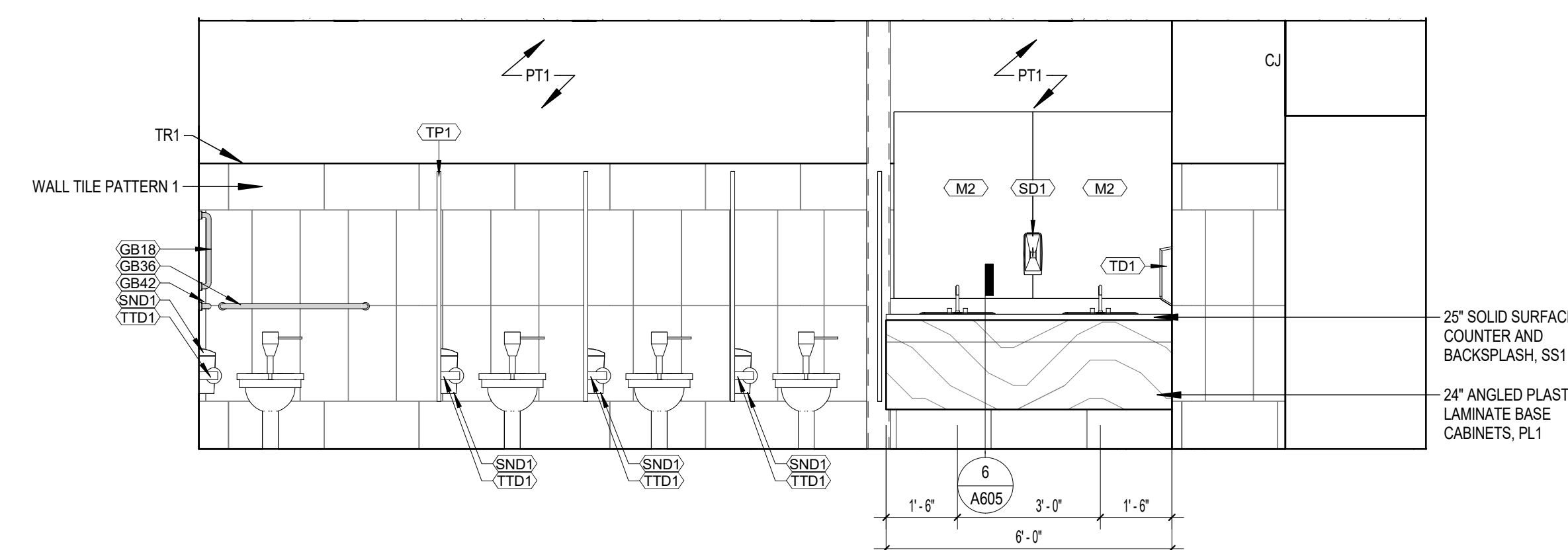
12 120 RESTROOM WEST
3/8" = 1'-0" 3/ A101.2



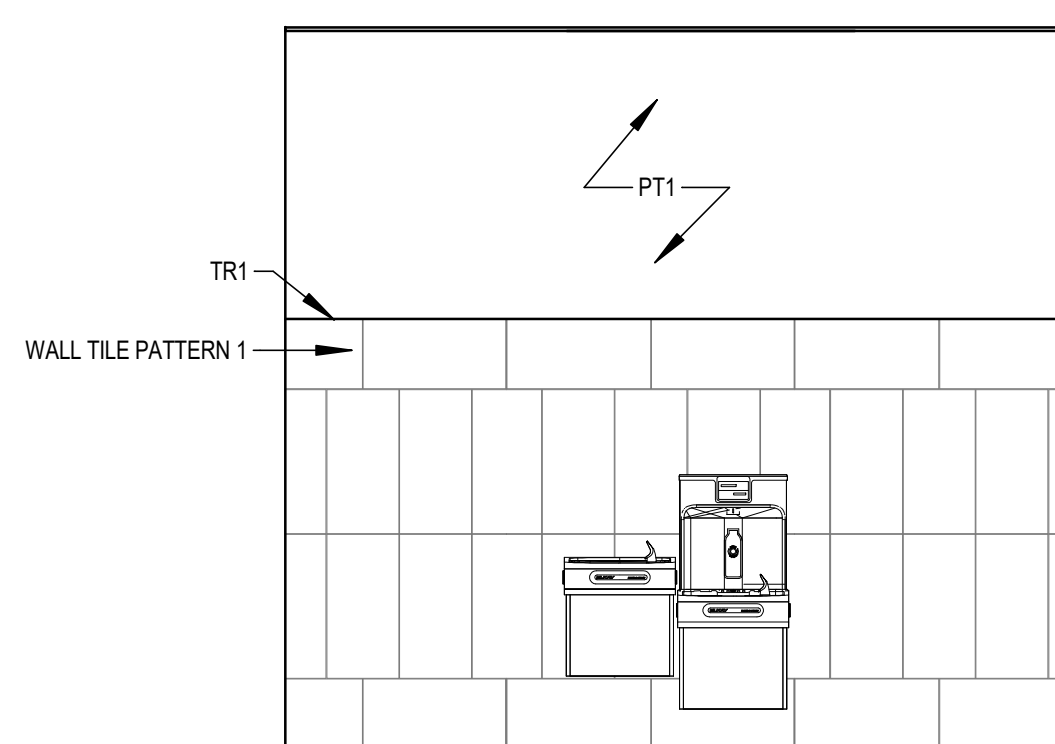
11 120 RESTROOM SOUTH
3/8" = 1'-0" 3/ A101.2



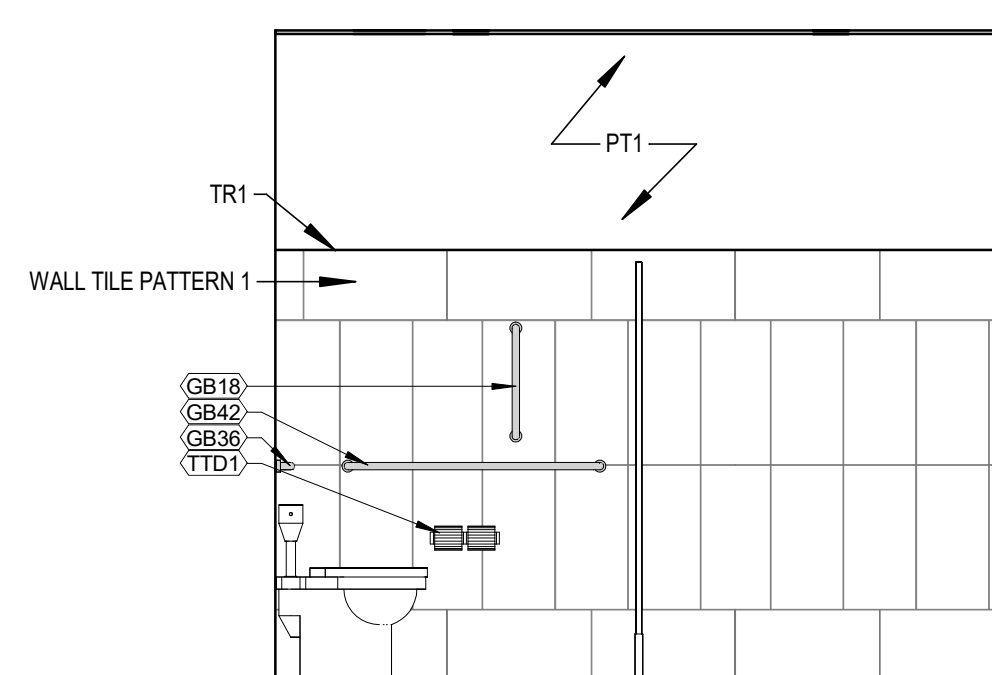
10 120 RESTROOM EAST
3/8" = 1'-0" 3/ A101.2



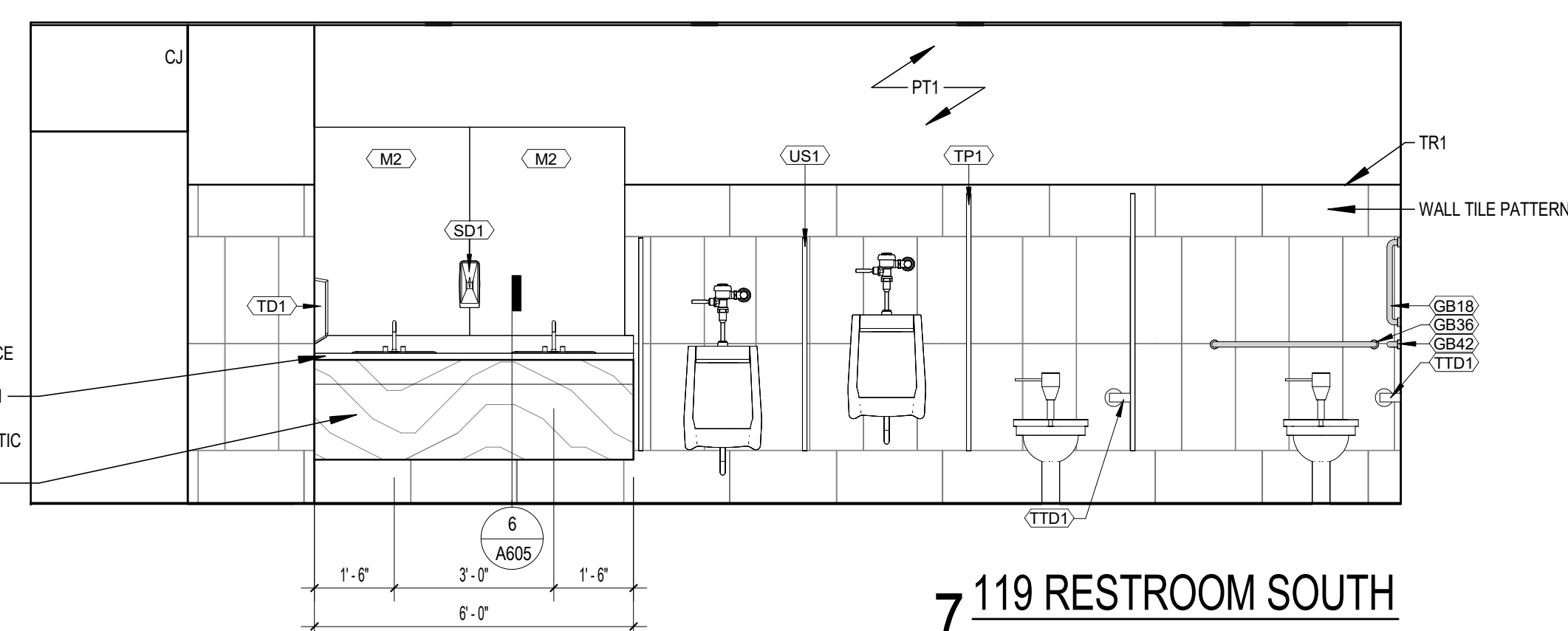
9 120 RESTROOM NORTH
3/8" = 1'-0" 3/ A101.2



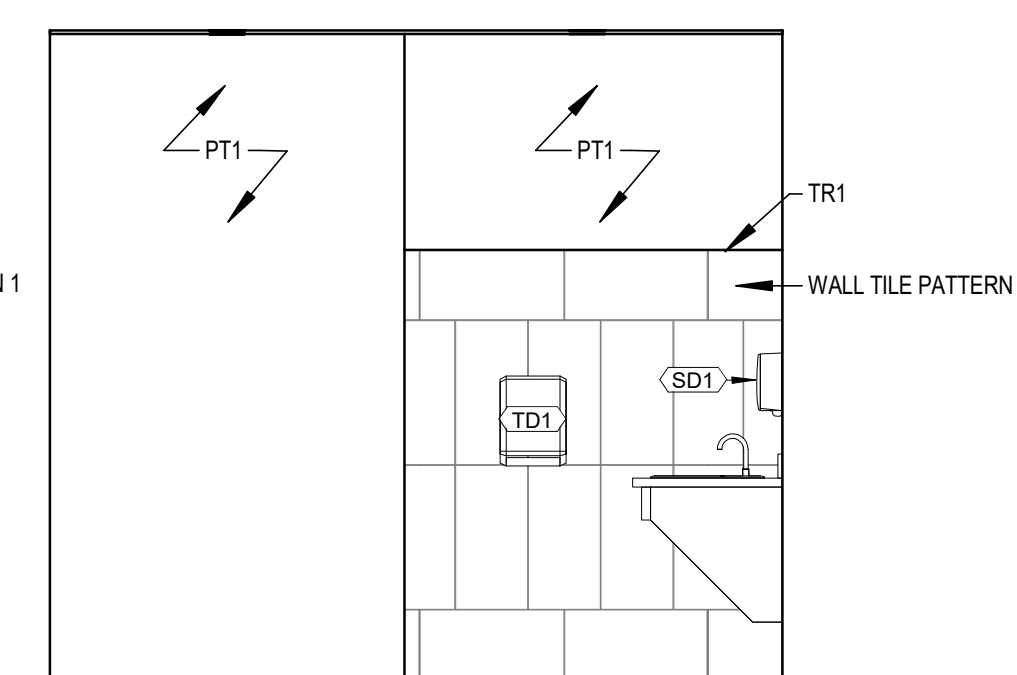
15 119/120 RESTROOM ENTRANCE
3/8" = 1'-0" 3/ A101.2



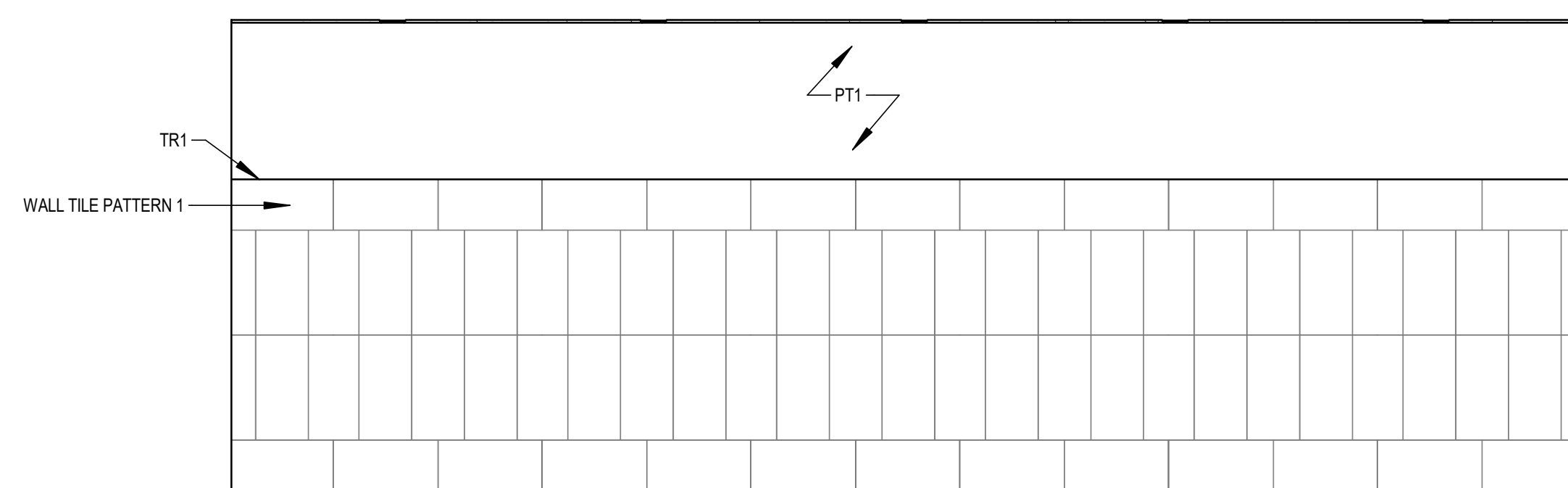
8 119 RESTROOM WEST
3/8" = 1'-0" 3/ A101.2



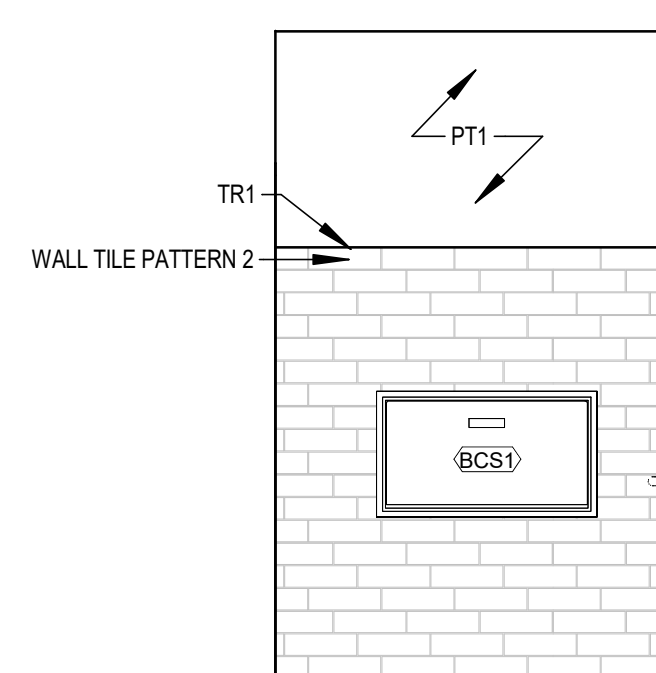
7 119 RESTROOM SOUTH
3/8" = 1'-0" 3/ A101.2



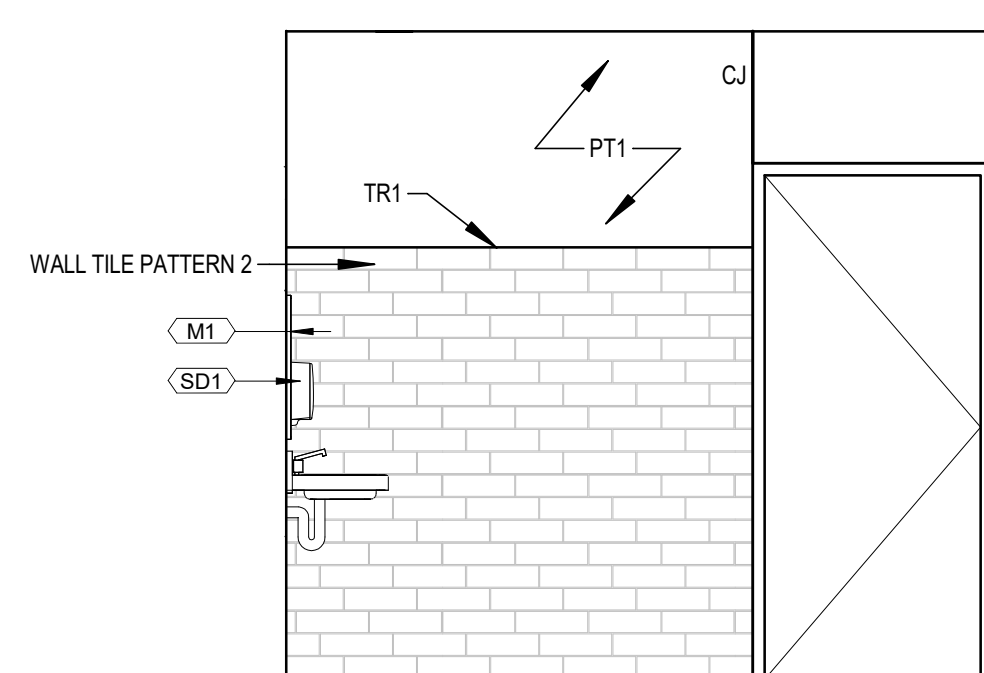
6 119 RESTROOM EAST
3/8" = 1'-0" 3/ A101.2



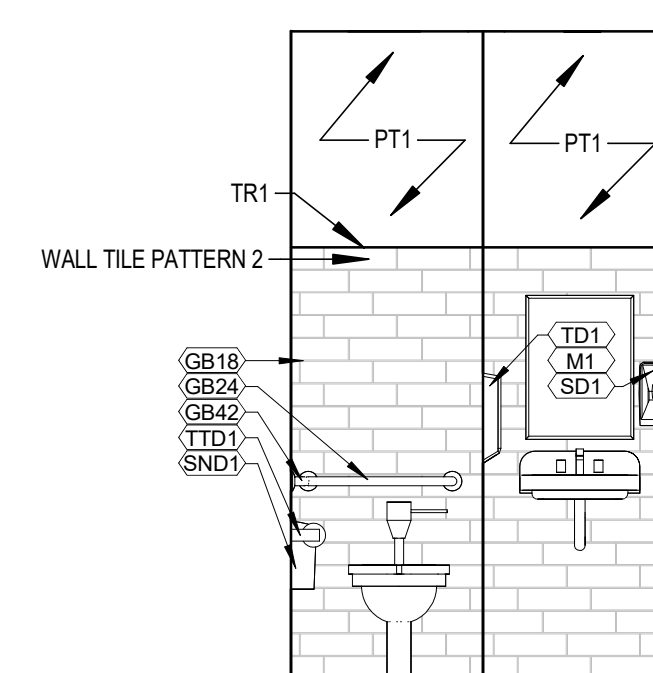
5 119 RESTROOM NORTH
3/8" = 1'-0" 3/ A101.2



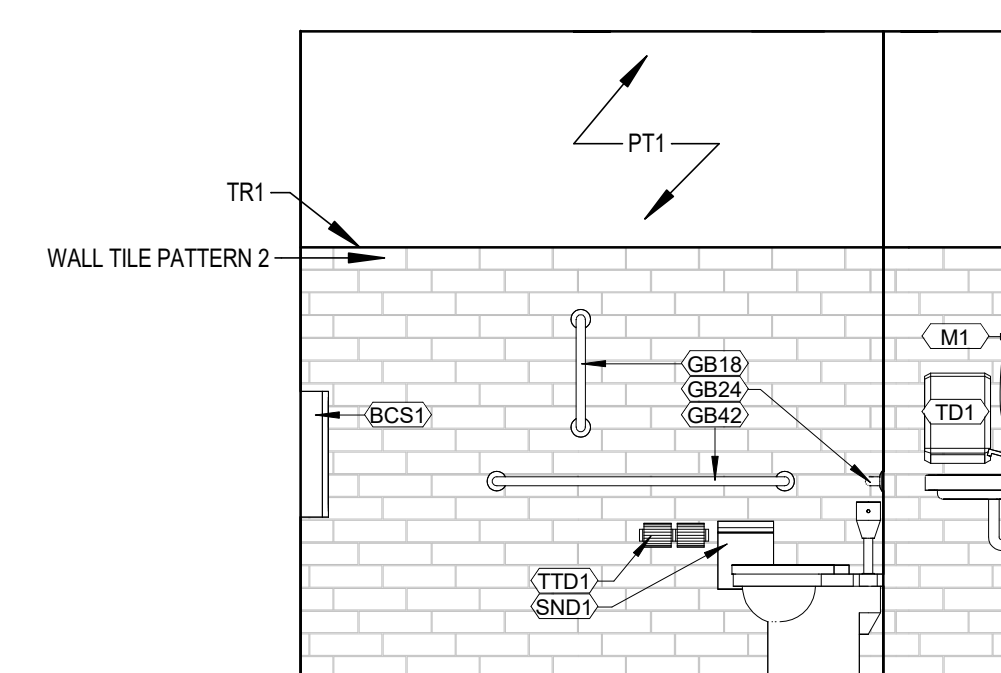
4 118 RESTROOM WEST
3/8" = 1'-0" 3/ A101.2



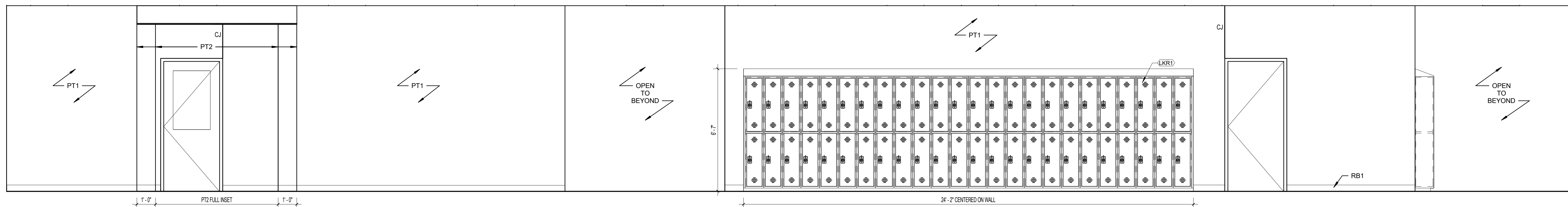
3 118 RESTROOM SOUTH
3/8" = 1'-0" 3/ A101.2



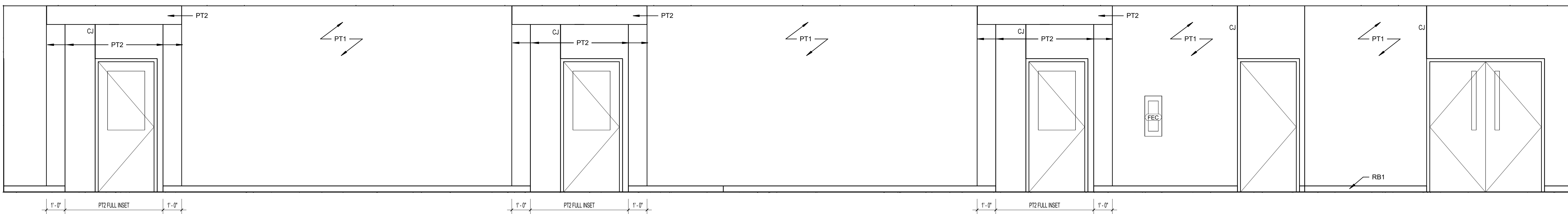
2 118 RESTROOM EAST
3/8" = 1'-0" 3/ A101.2



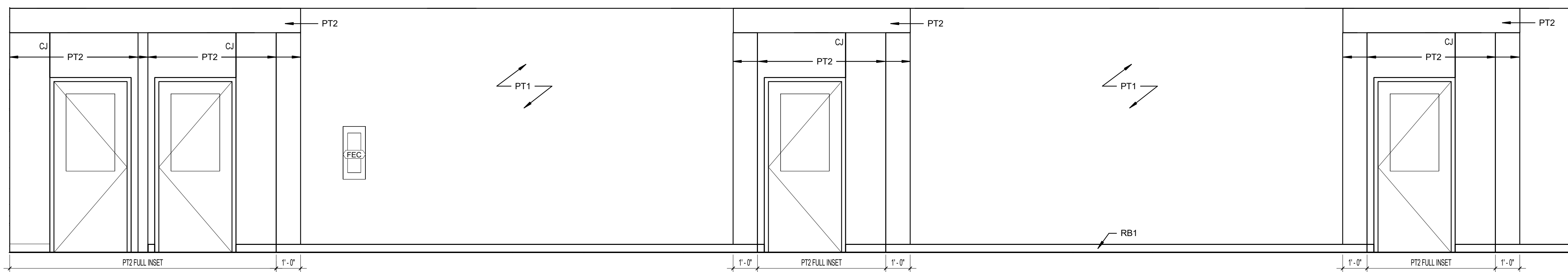
1 118 RESTROOM NORTH
3/8" = 1'-0" 3/ A101.2



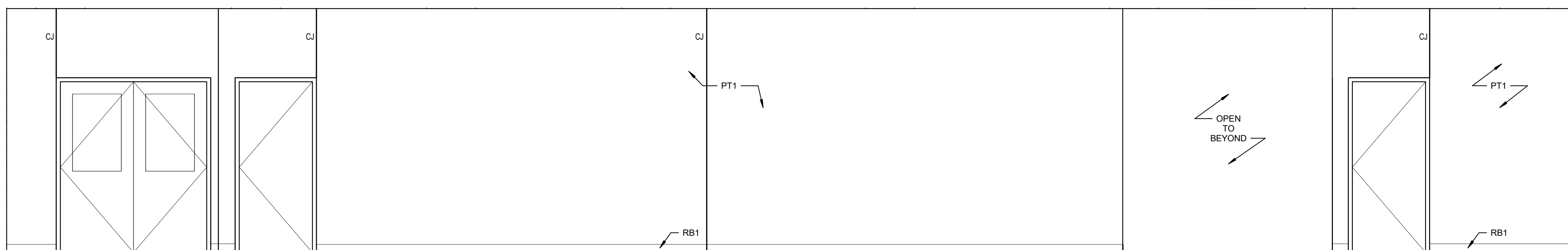
5 212 CORRIDOR SOUTH
3/8" = 1'-0" 1/ A102.2



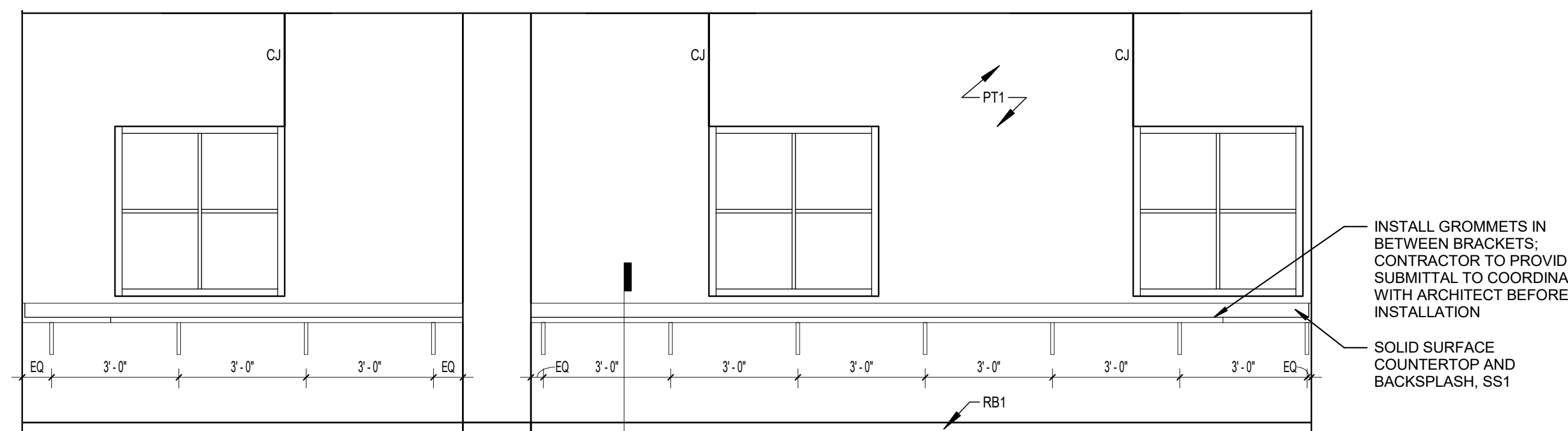
4 212 CORRIDOR NORTH
3/8" = 1'-0" 1/ A102.2



3 126 CORRIDOR SOUTH
3/8" = 1'-0" 1/ A101.2

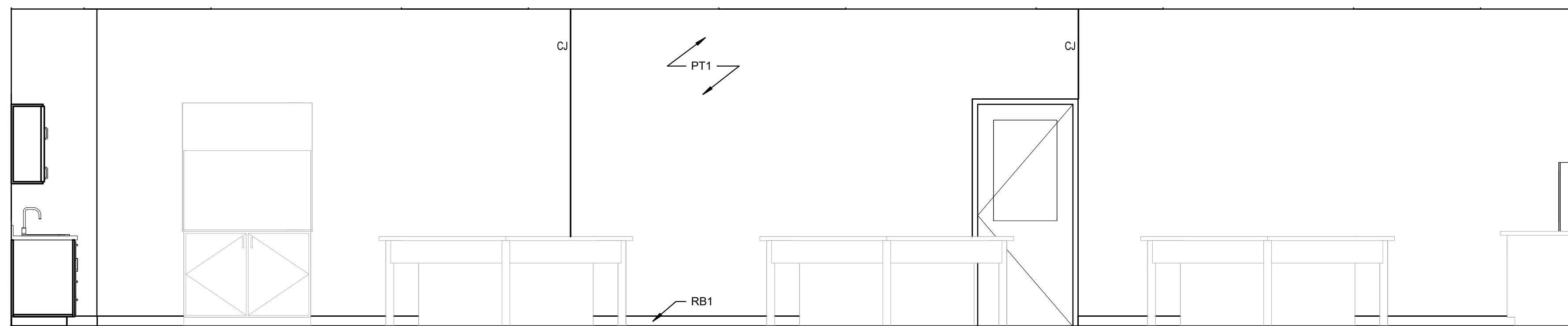


2 126 CORRIDOR NORTH
3/8" = 1'-0" 1/ A101.2

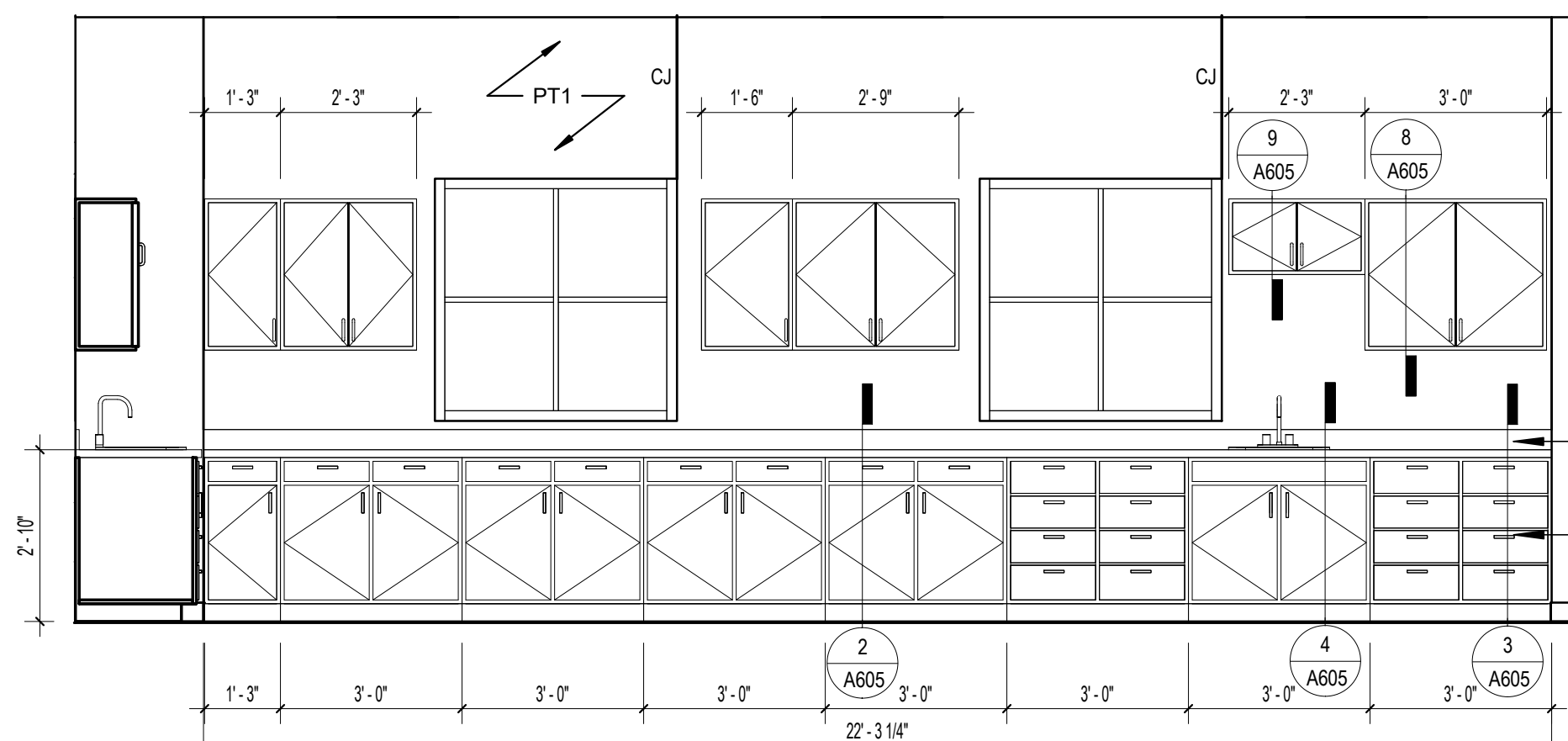


1 125 COMPUTER LAB EAST
3/8" = 1'-0" 1/ A101.2

INSTALL GROMMETS IN
BETWEEN BRACKETS:
CONTRACTOR TO PROVIDE
SUBMITTAL TO COORDINATE
WITH ARCHITECT BEFORE
INSTALLATION
SOLID SURFACE
COUNTERTOP AND
BACKFLASH, SS1

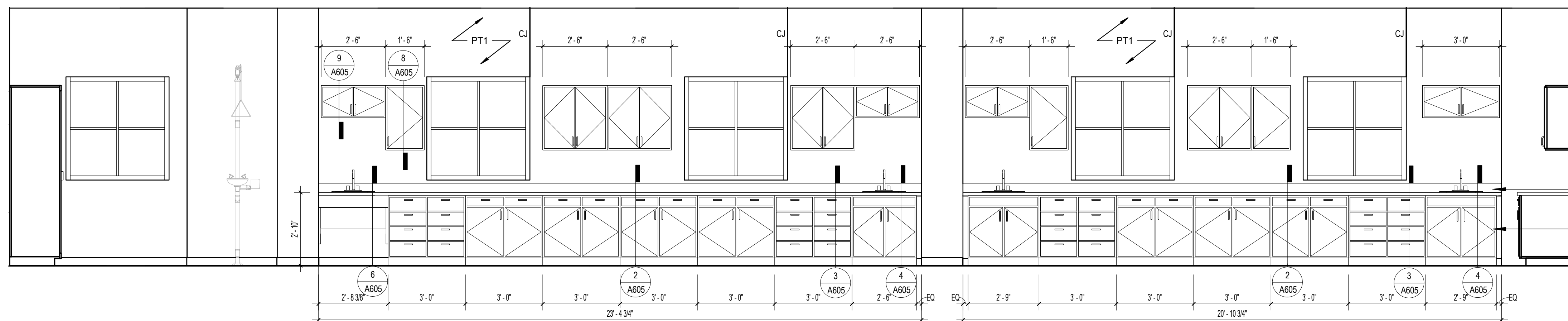


9 226 SCIENCE LAB WEST
3/8" = 1'-0" 1/ A102.2

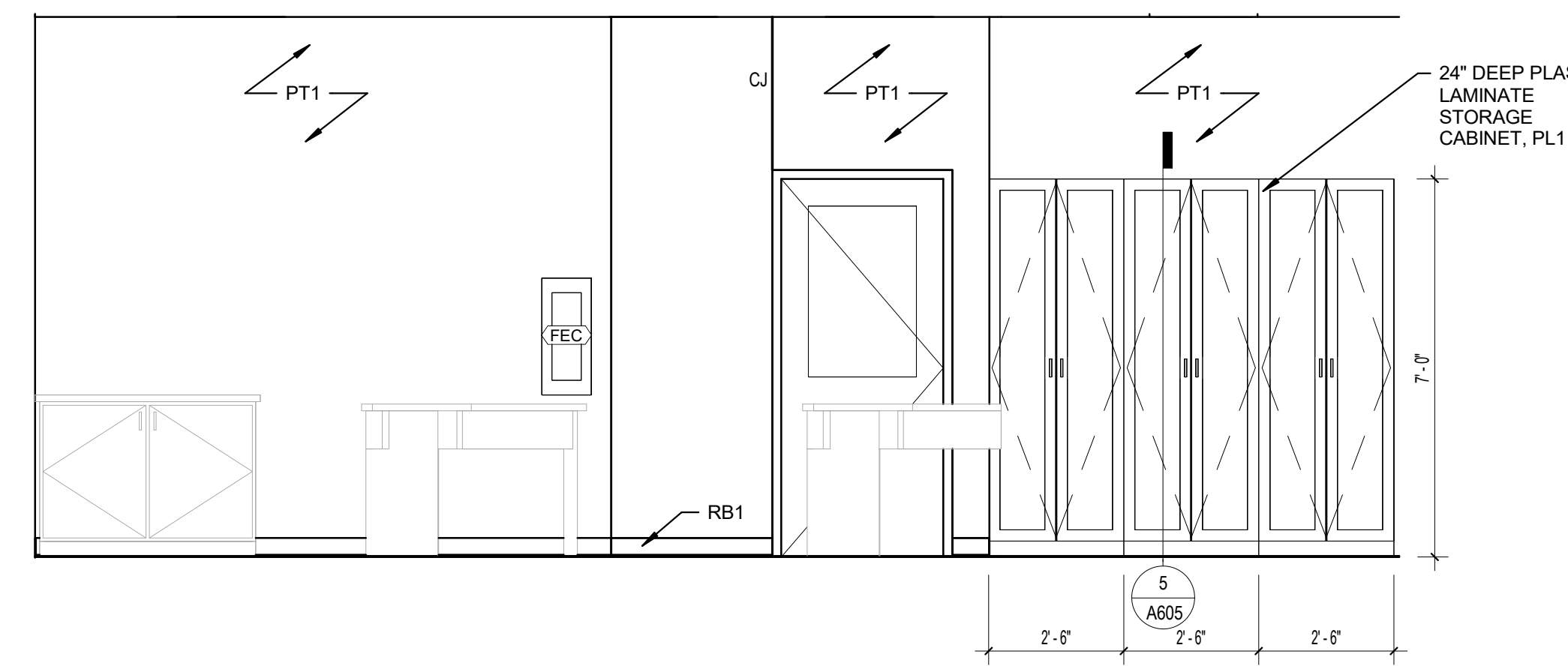


8 226 SCIENCE LAB SOUTH
3/8" = 1'-0" 1/ A102.2

26" SOLID SURFACE
COUNTER AND
BACKSPLASH, SS1
24" DEEP PLASTIC
LAMINATE BASE
CABINETS, PL1

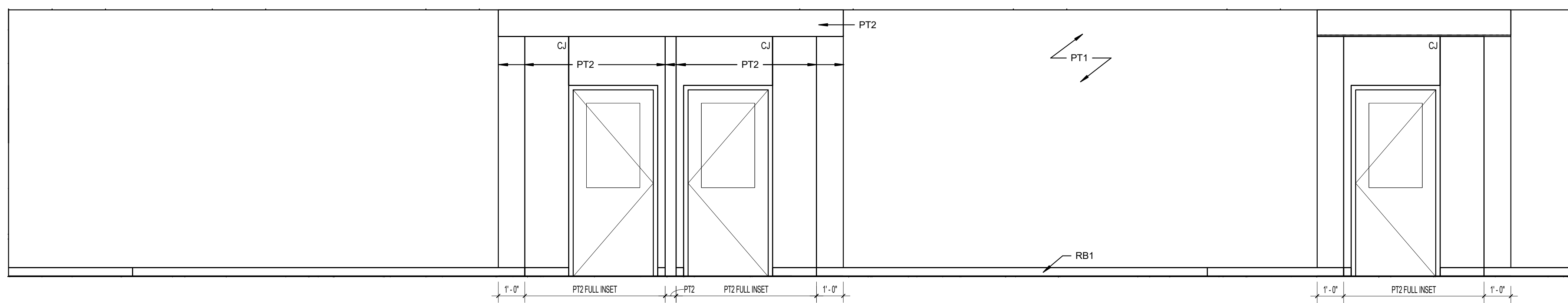


7 226 SCIENCE LAB EAST
3/8" = 1'-0" 1/ A102.2

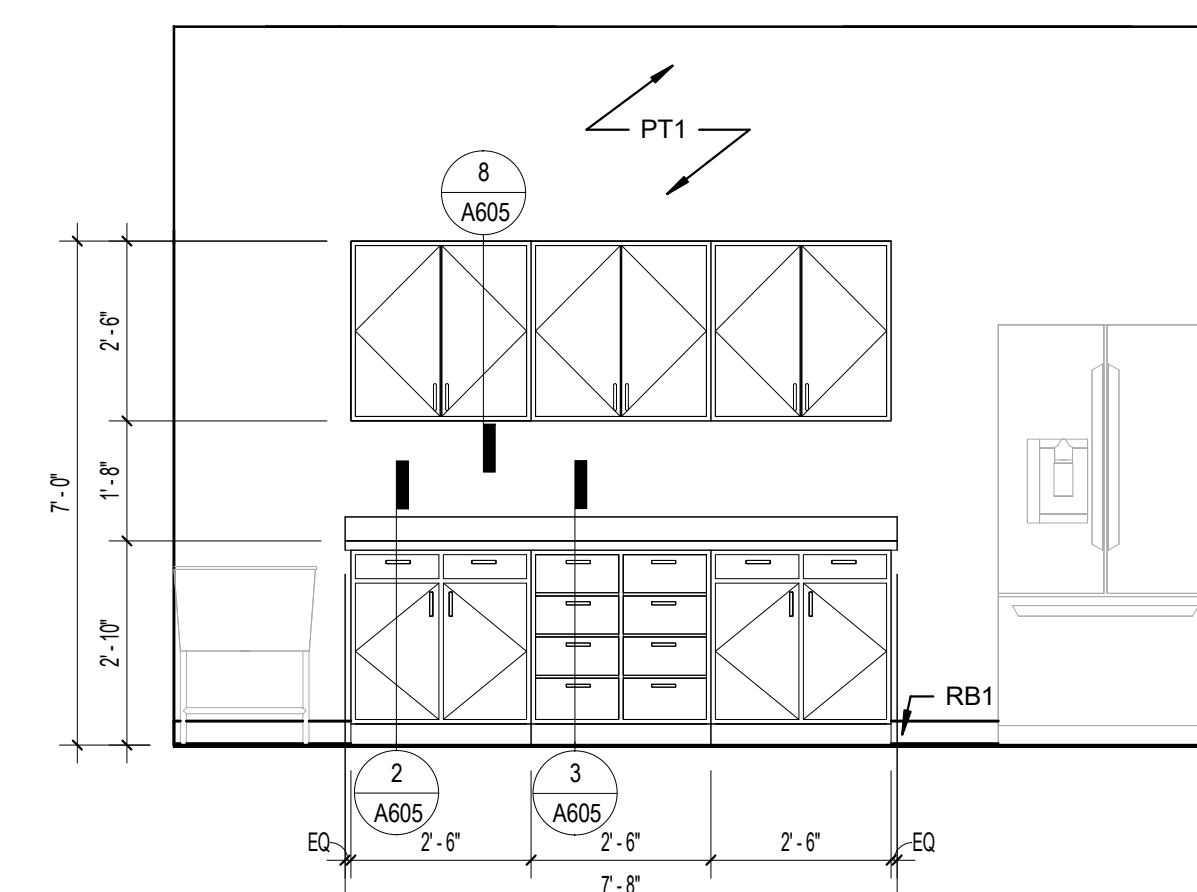


6 226 SCIENCE LAB NORTH
3/8" = 1'-0" 1/ A102.2

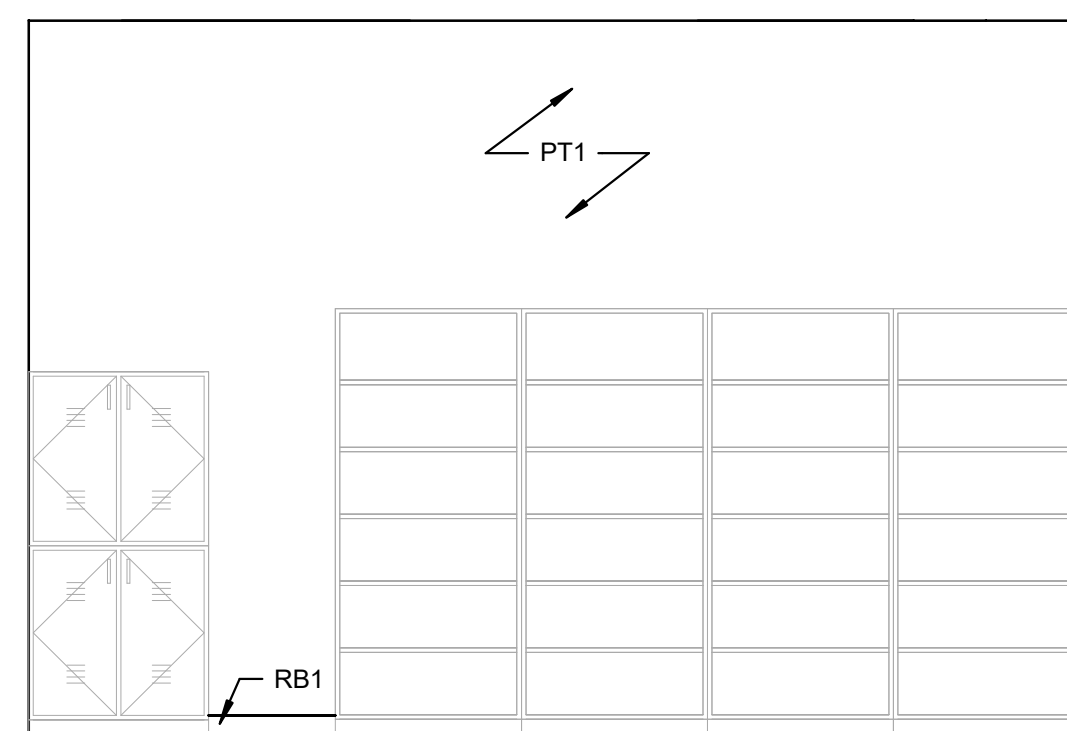
24" DEEP PLASTIC
LAMINATE
STORAGE
CABINET, PL1



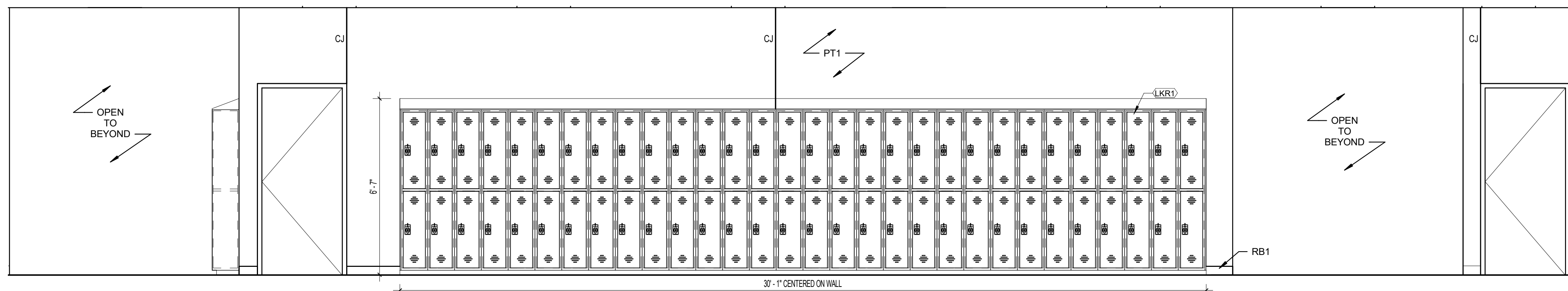
5 227 CORRIDOR SOUTH
3/8" = 1'-0" 1/ A102.2



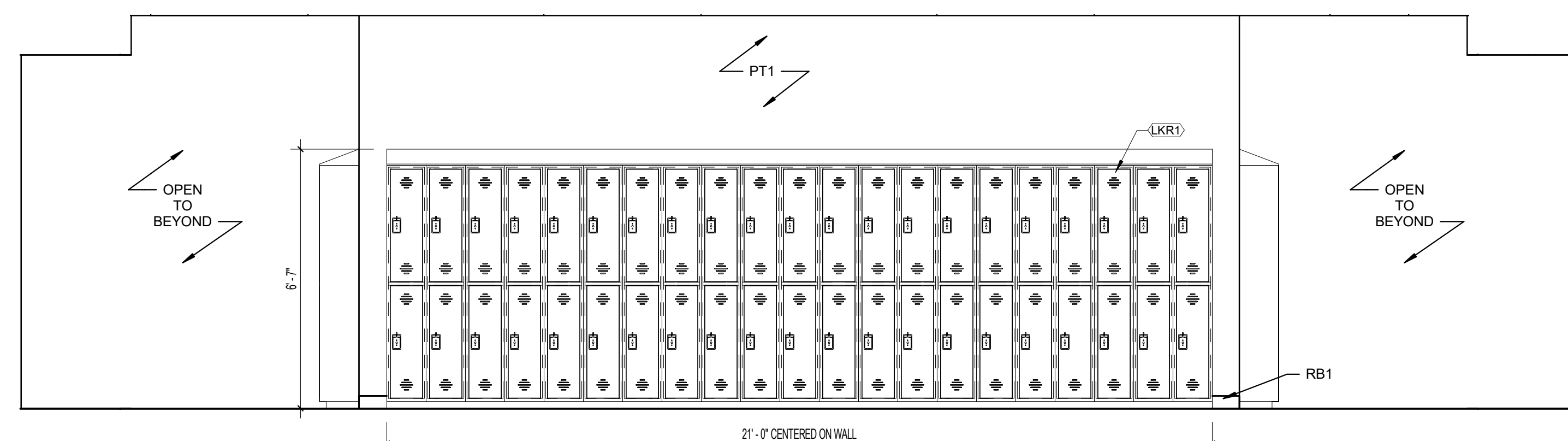
4 225 STORAGE SOUTH
3/8" = 1'-0" 1/ A102.2



3 225 STORAGE NORTH
3/8" = 1'-0" 1/ A102.2



2 227 CORRIDOR NORTH
3/8" = 1'-0" 1/ A102.2



1 203 CORRIDOR EAST
3/8" = 1'-0" 1/ A102.2

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**EVERGREEN BAPTIST
CHURCH - PHASE 5**

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

1 04.09.2025 REV#2

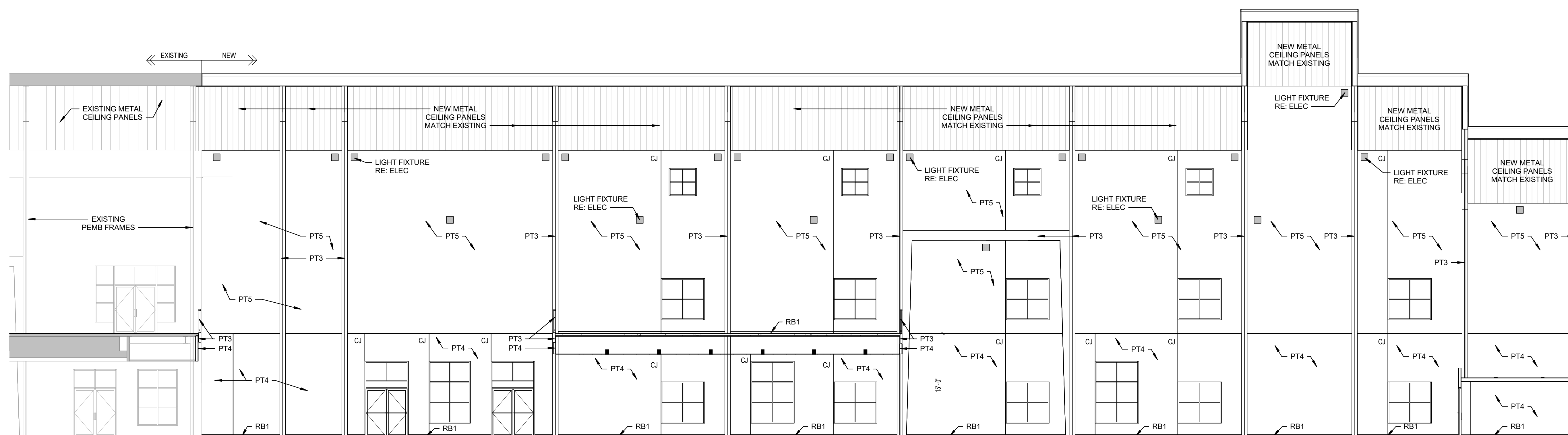
INTERIOR ELEVATIONS

JOB 2023.14
ISSUE 03.03.2025
DRAWN BY: NW
CHKD BY: BG

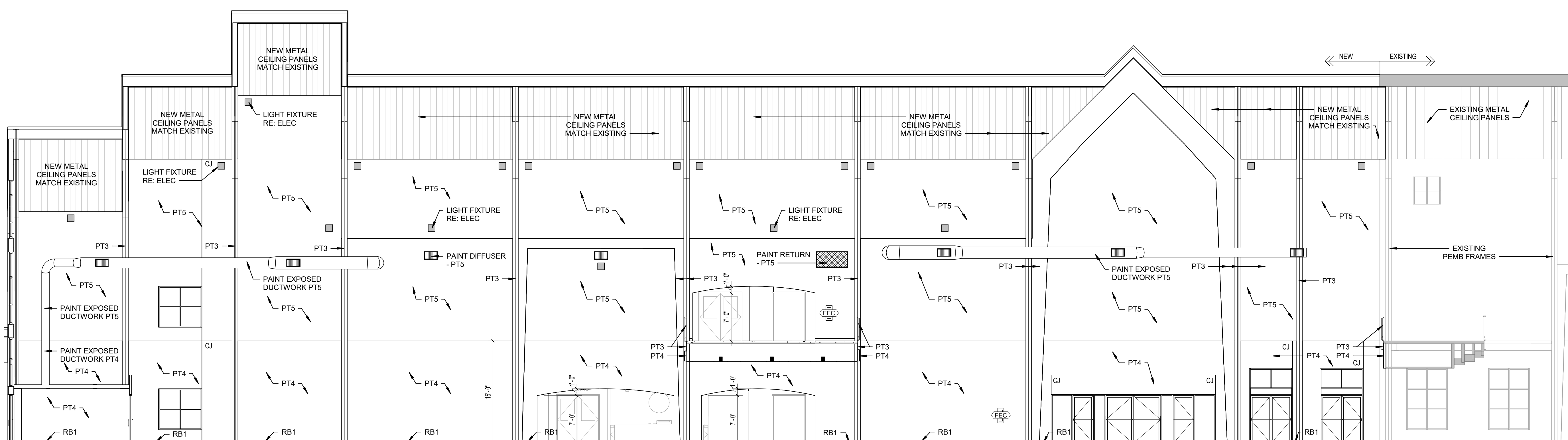
A214

SCALE 3/8" = 1'-0"

04.09.2025



2 101 GALLERY WEST
1/8" = 1'-0" 1/4" = 1'-0"



1 101 GALLERY EAST
1/8" = 1'-0" 1/4" = 1'-0"

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EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

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INTERIOR ELEVATIONS

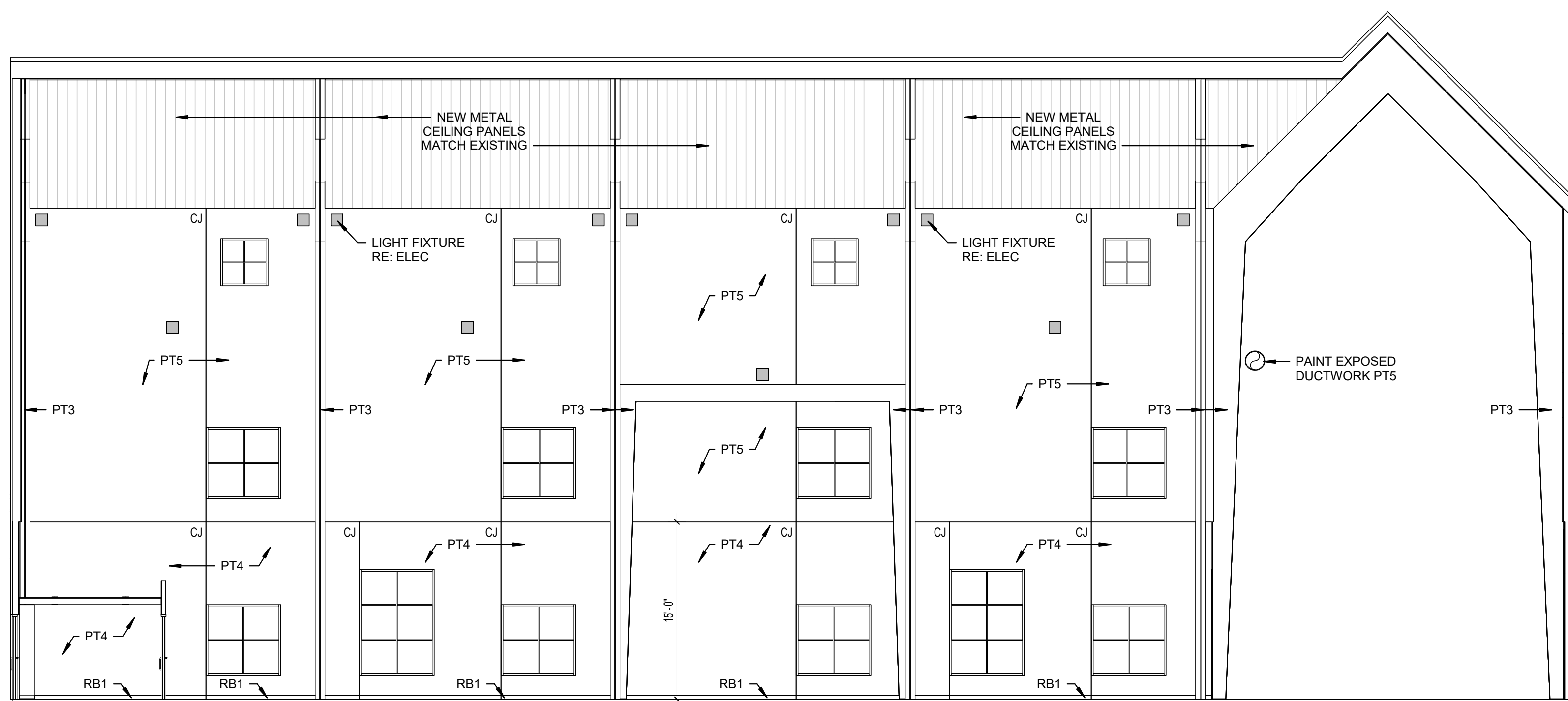
JOB 2023.14
ISSUE 03.03.2025
DRAWN BY: MW
CHKD BY: BG

A215
SCALE 1/8" = 1'-0"

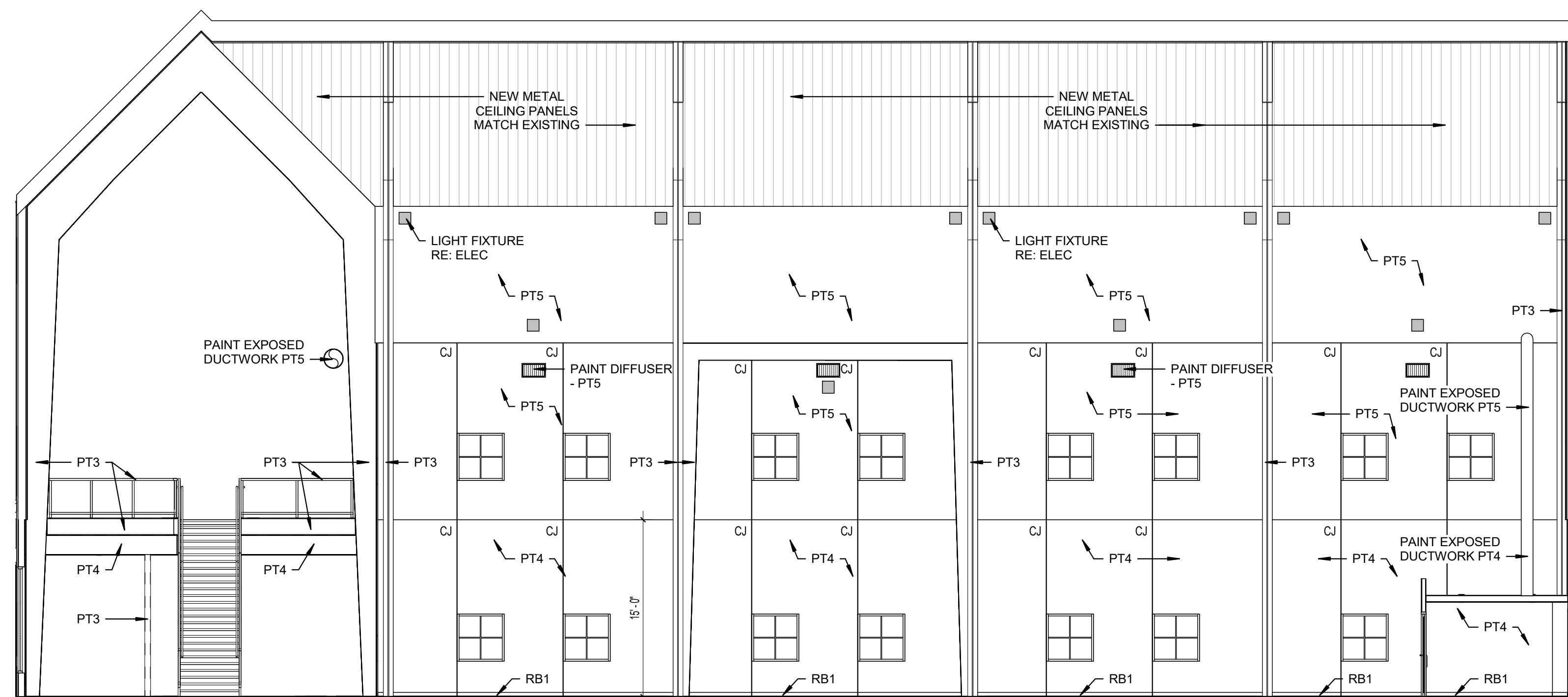
04.09.2025

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Reference Cover Sheet
for Consultant Directory



2 103 GALLERY SOUTH
1/8" = 1'-0" 1/4" A101.2



1 103 GALLERY NORTH
1/8" = 1'-0" 1/4" A101.2

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EVERGREEN BAPTIST
CHURCH - PHASE 5

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1 04.09.2025 REV#2

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JOB 2023.14
ISSUE 03.03.2025
DRAWN BY: MW
CHKD BY: BG

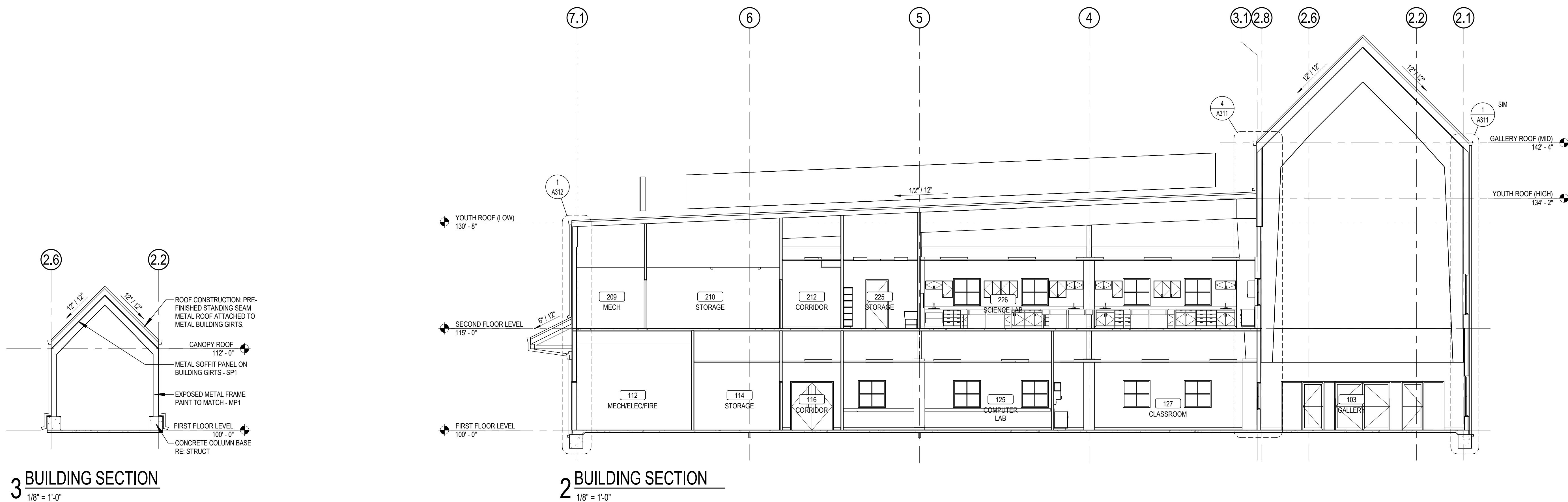
A216

SCALE 1/8" = 1'-0"

04.09.2025

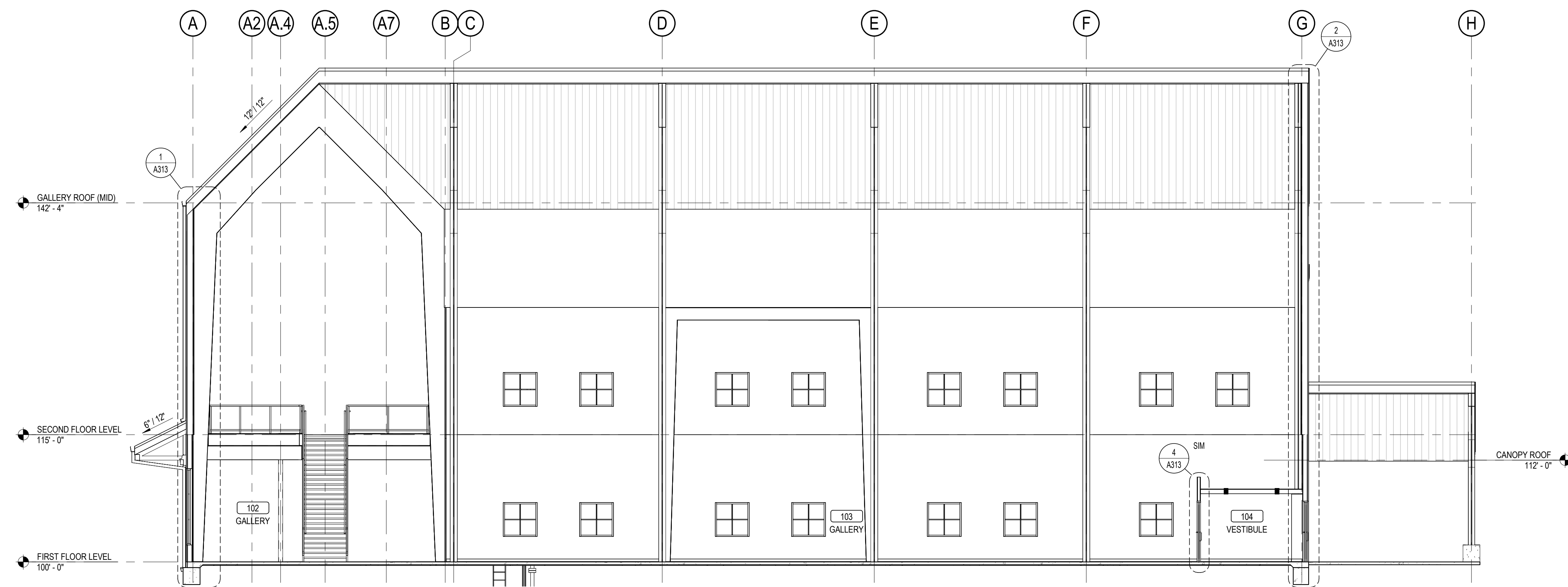
CONSULTANT:

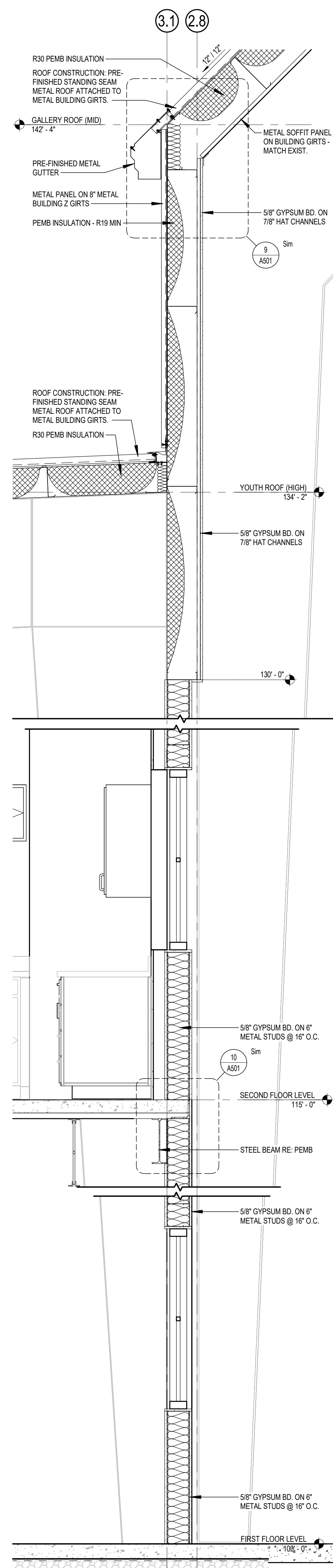
Reference Cover Sheet
for Consultant Directory



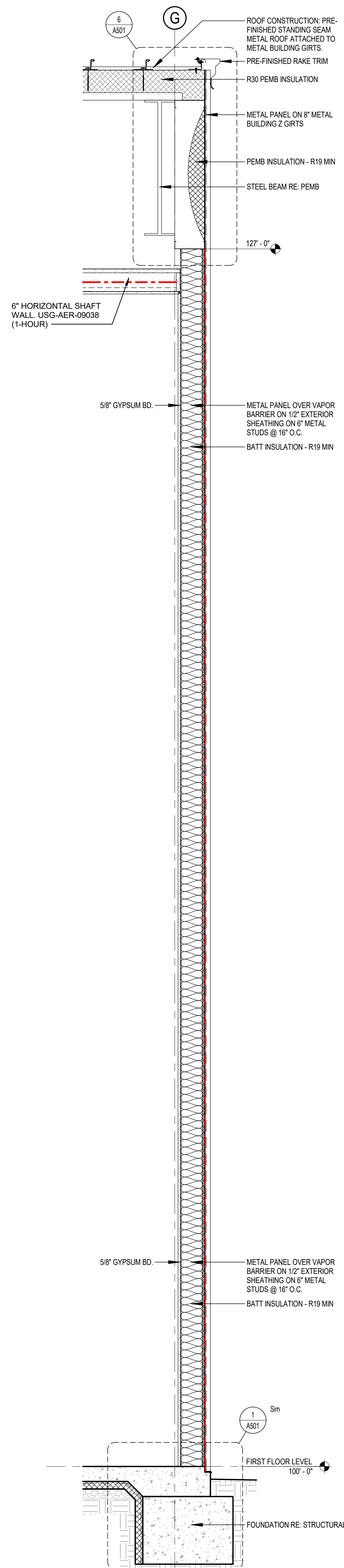
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for Consultant Directory

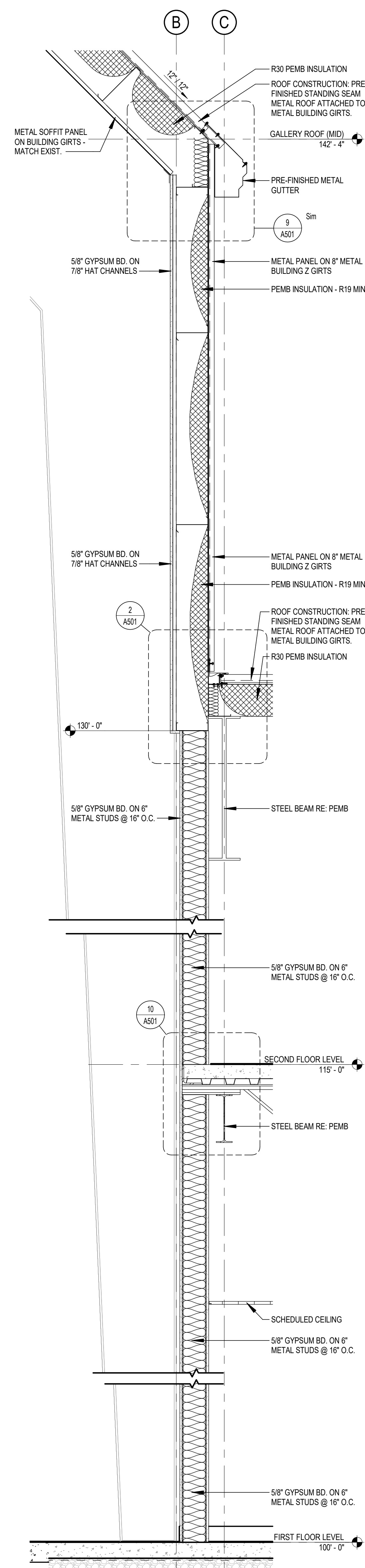




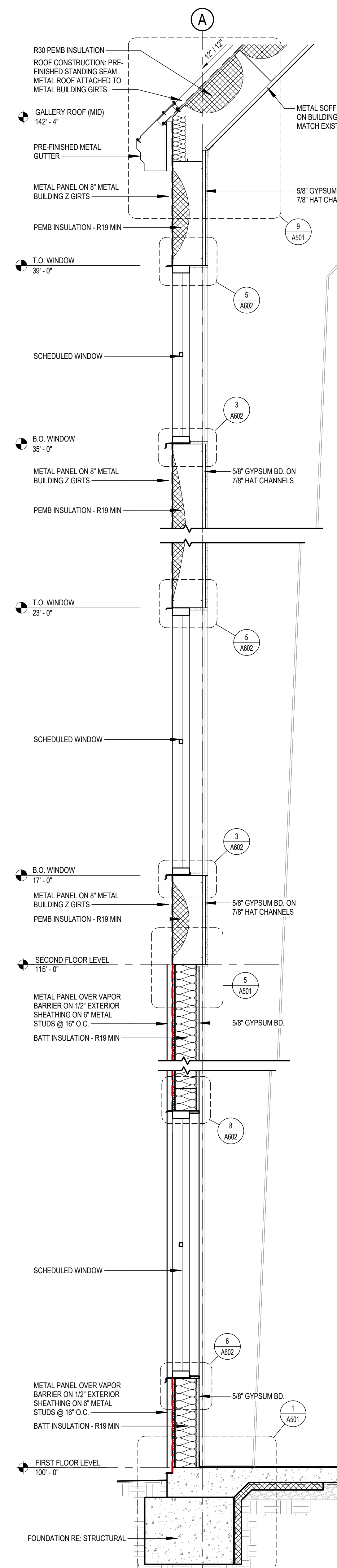
4 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"

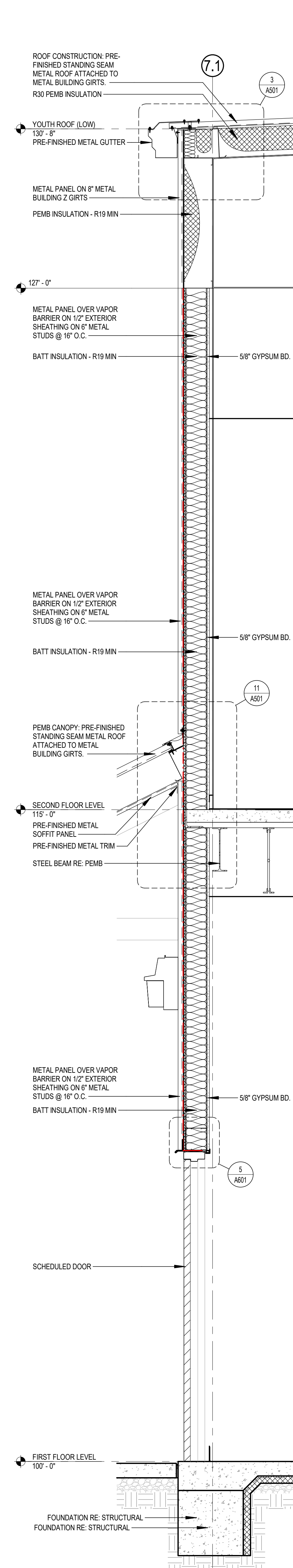
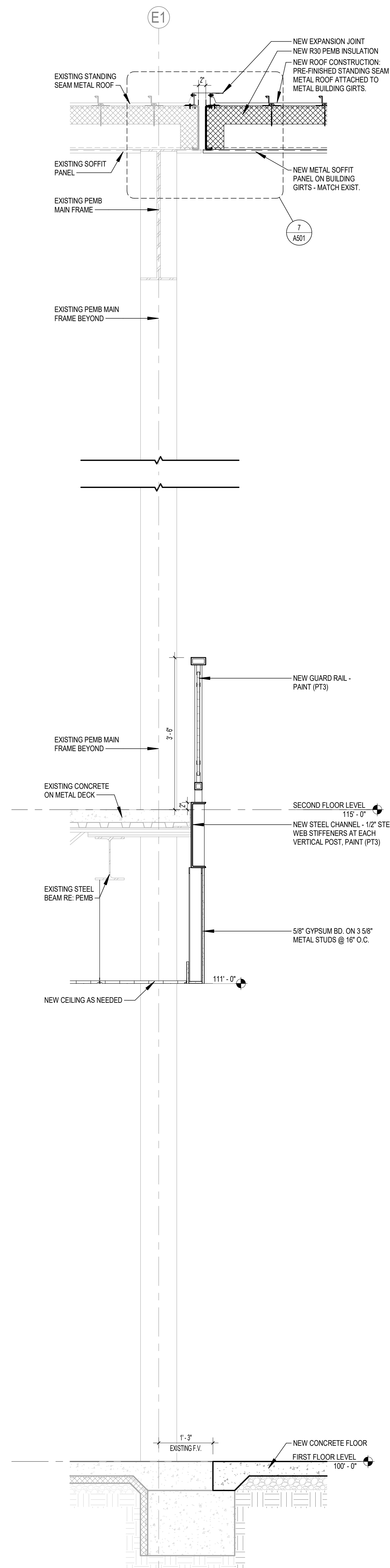
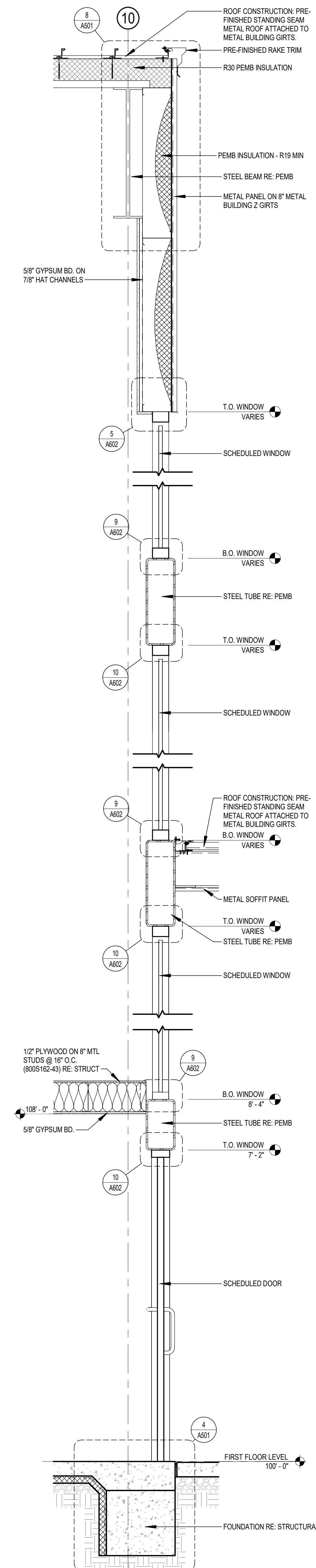
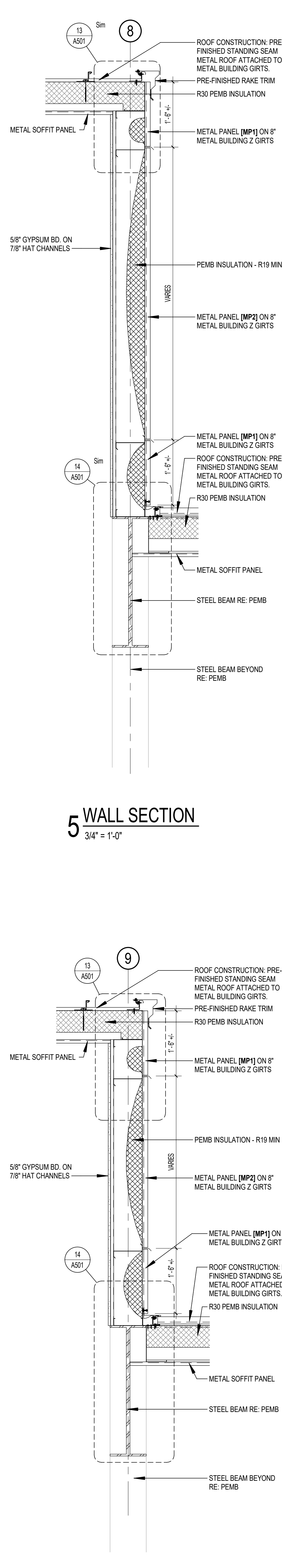
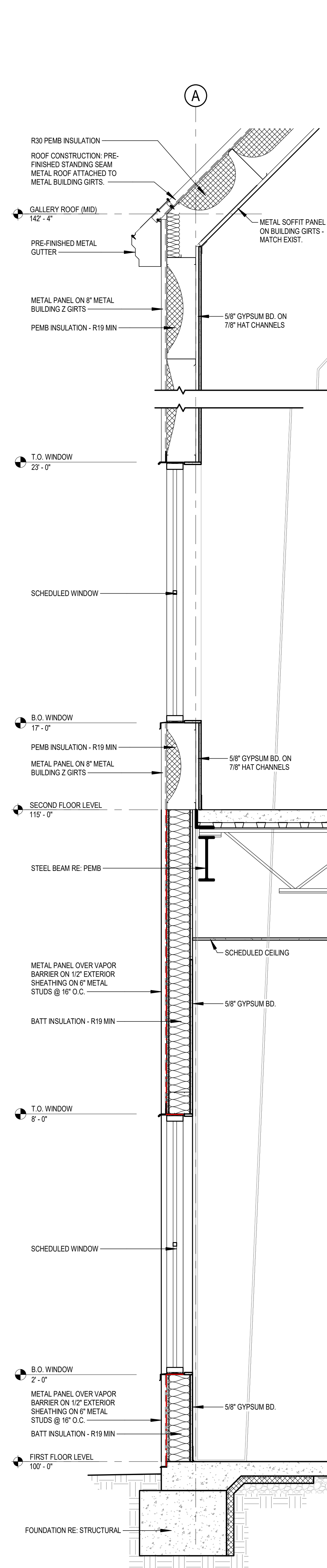


2 WALL SECTION
3/4" = 1'-0"



1 WALL SECTION
3/4" = 1'-0"

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**EVERGREEN BAPTIST
CHURCH - PHASE 5**
10301 EAST 111TH ST. S.
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REVISIONS

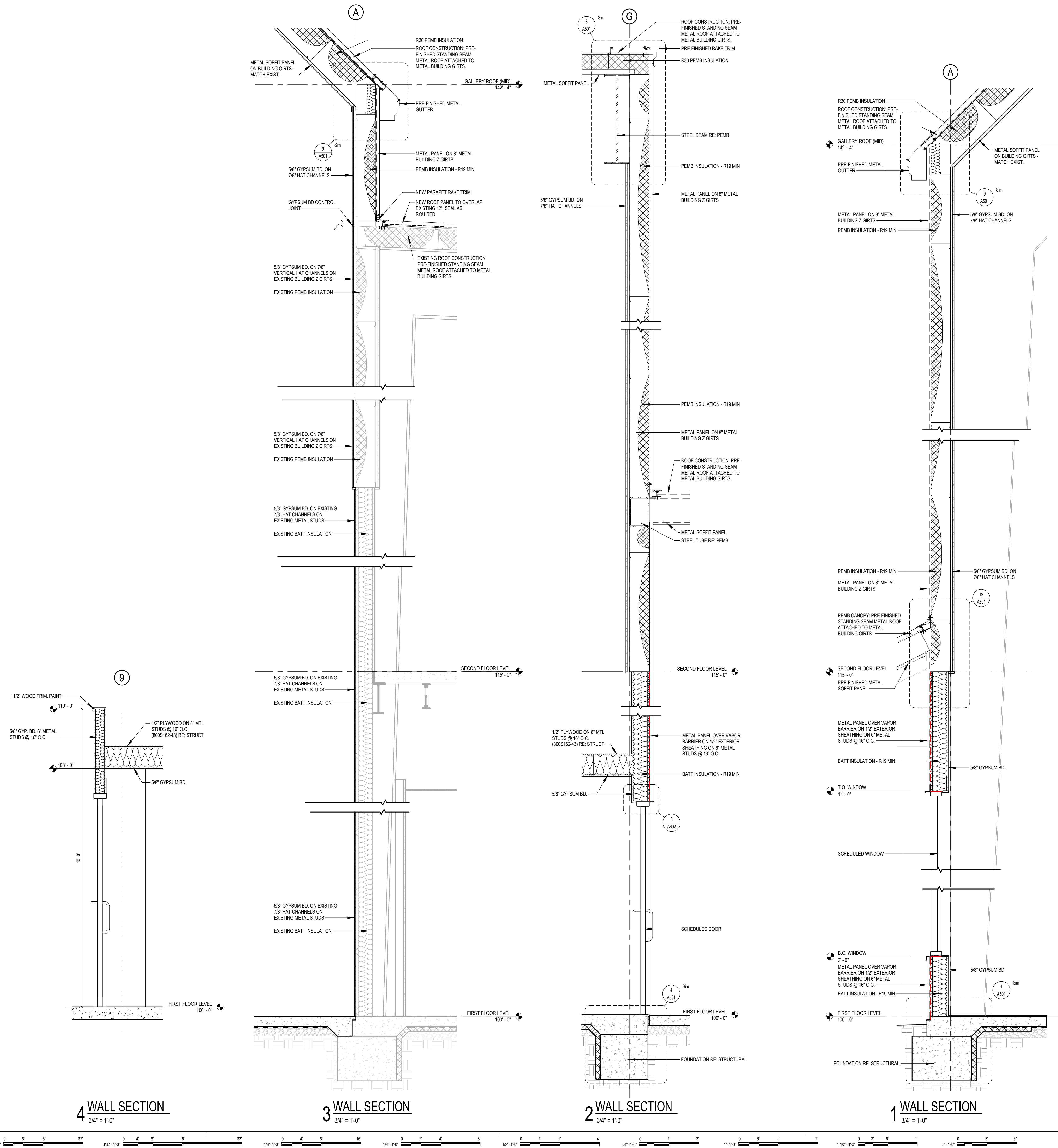
WALL SECTIONS

JOB: 2023.14
ISSUE: 03.03.2025
DRAWN BY: BG
CHKD BY: SE

A312

SCALE: 3/4" = 1'-0"

3/3/2025



NOTE: ALL STEEL TO MATCH
EXISTING, BE SHOP PRIMED AND
FIELD PAINTED. GRIND ALL WELDS
SMOOTH - PAINT (PT3)



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EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
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REVISIONS
1 04.09.2025 REV#2

ENLARGED STAIR PLANS AND
SECTIONS AND DETAILS

JOB 2023.14

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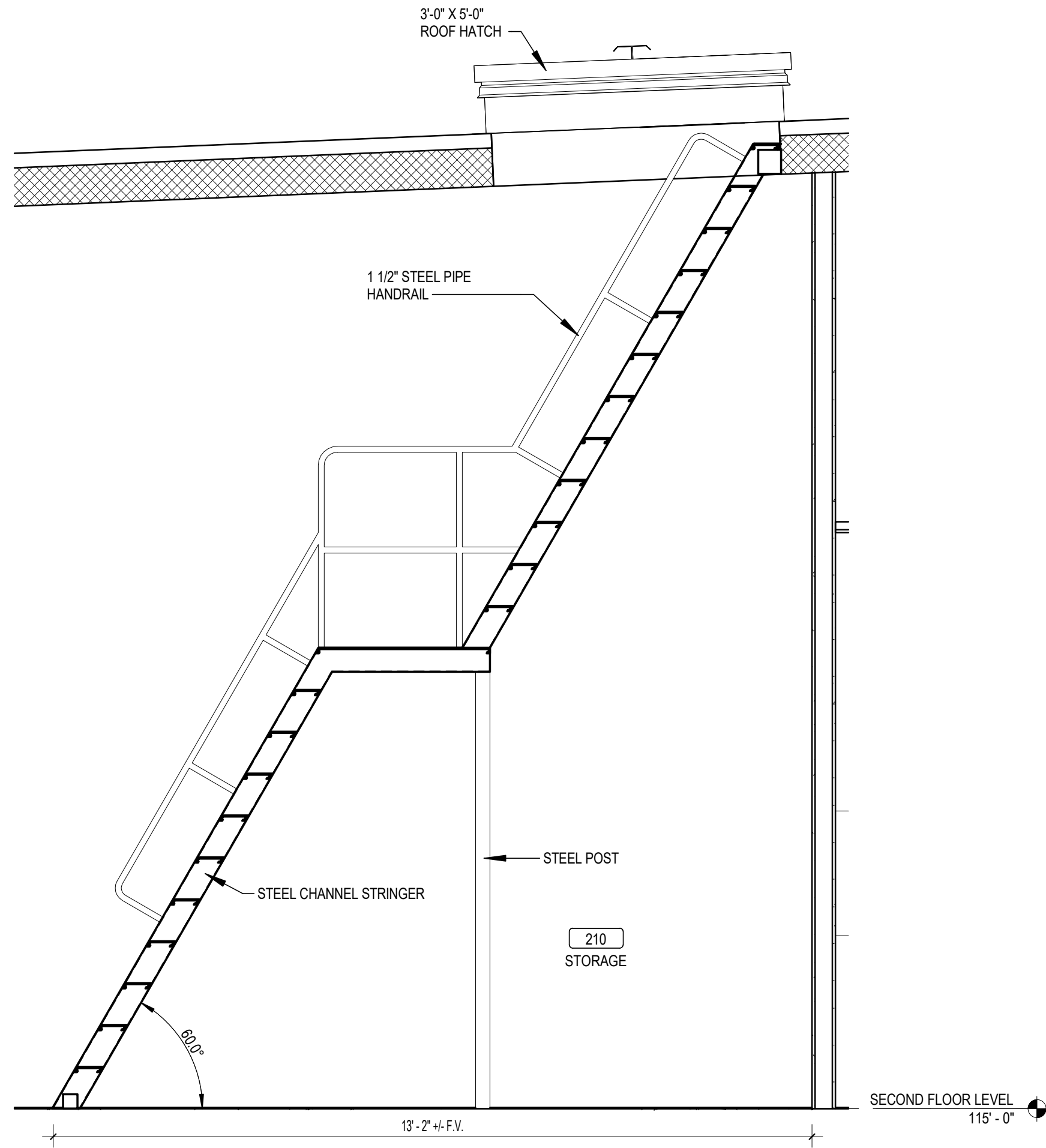
DRAWN BY: BG

CHKD BY: SE

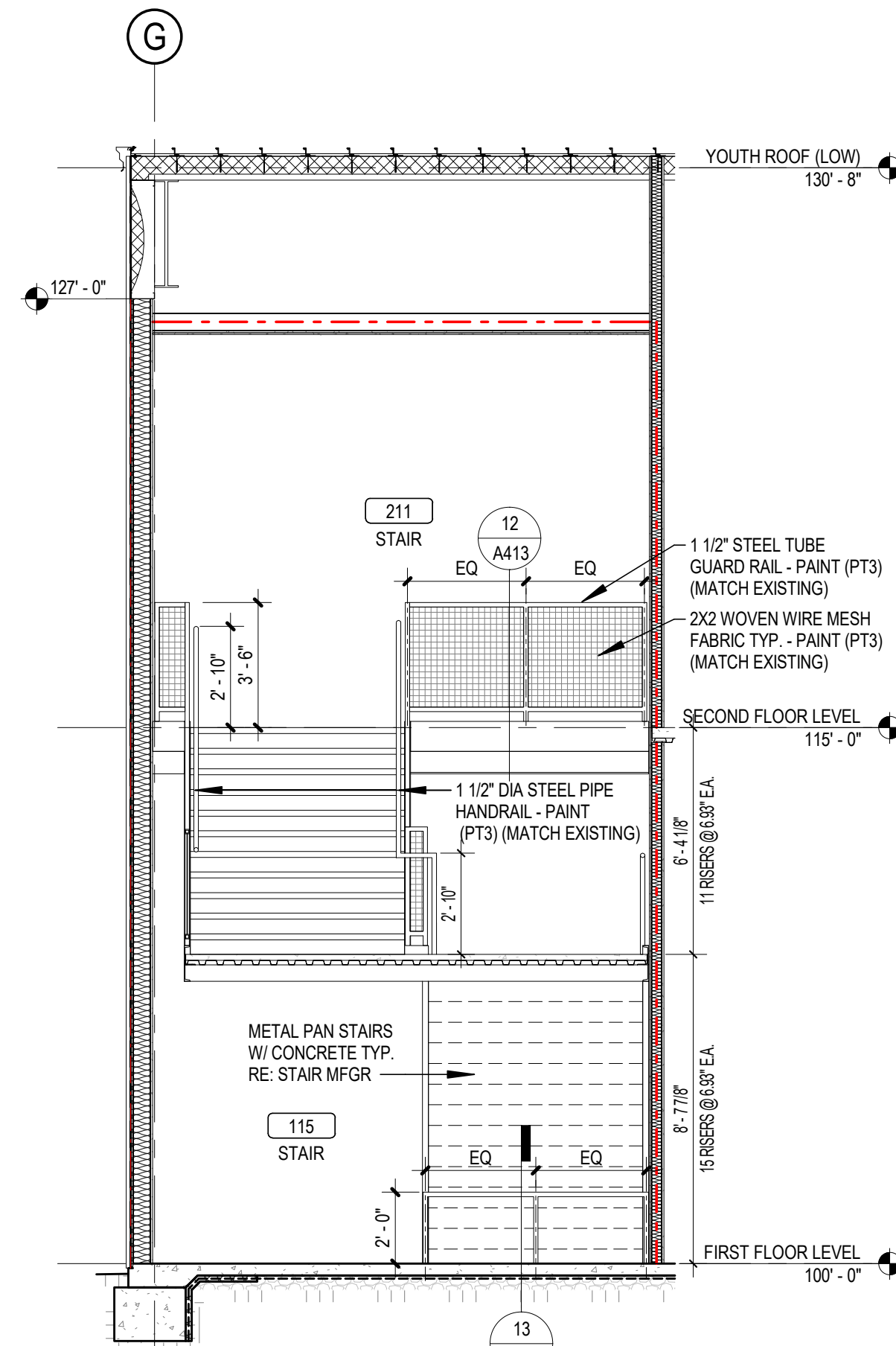
A411

SCALE As indicated

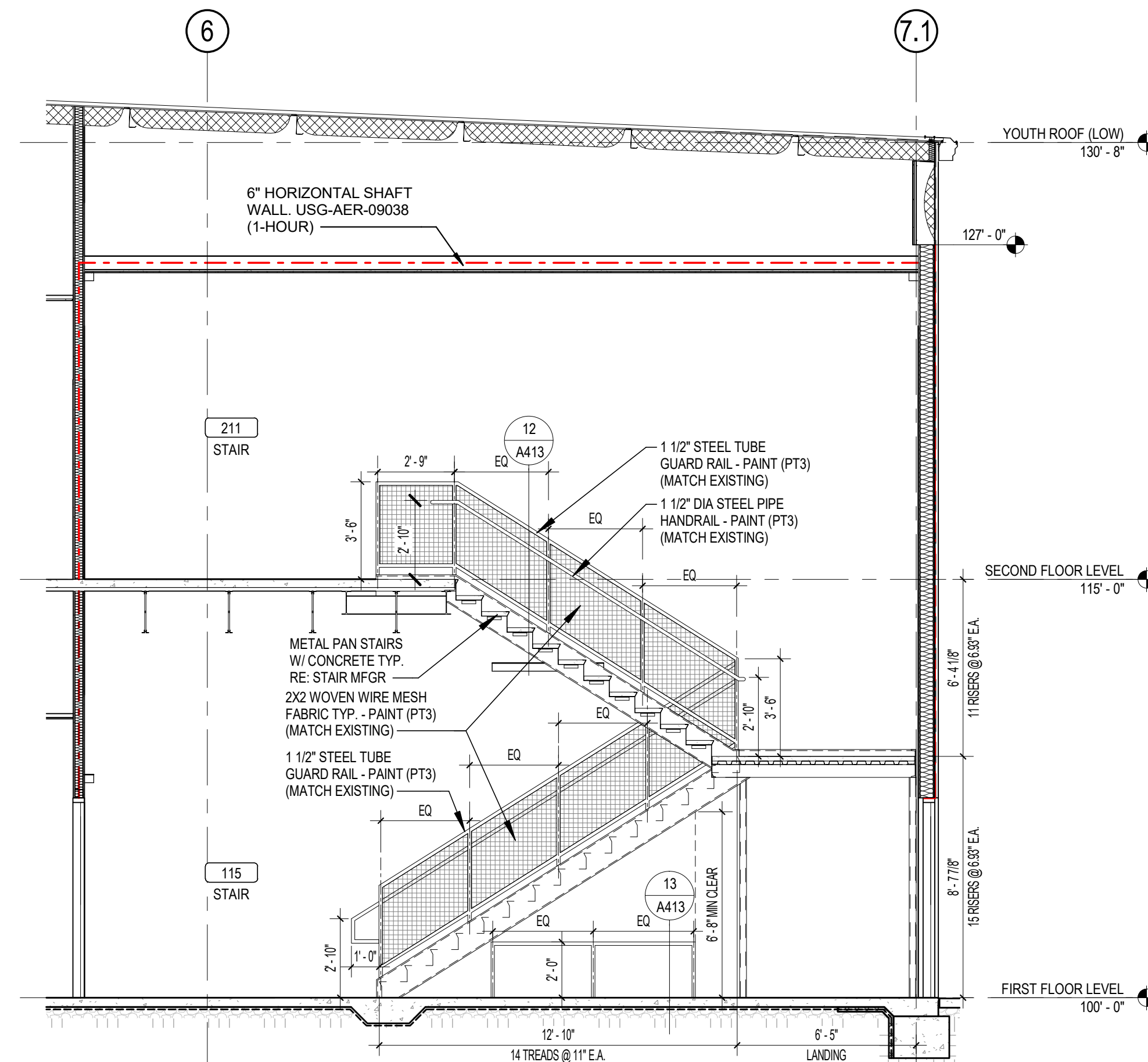
04.09.2025



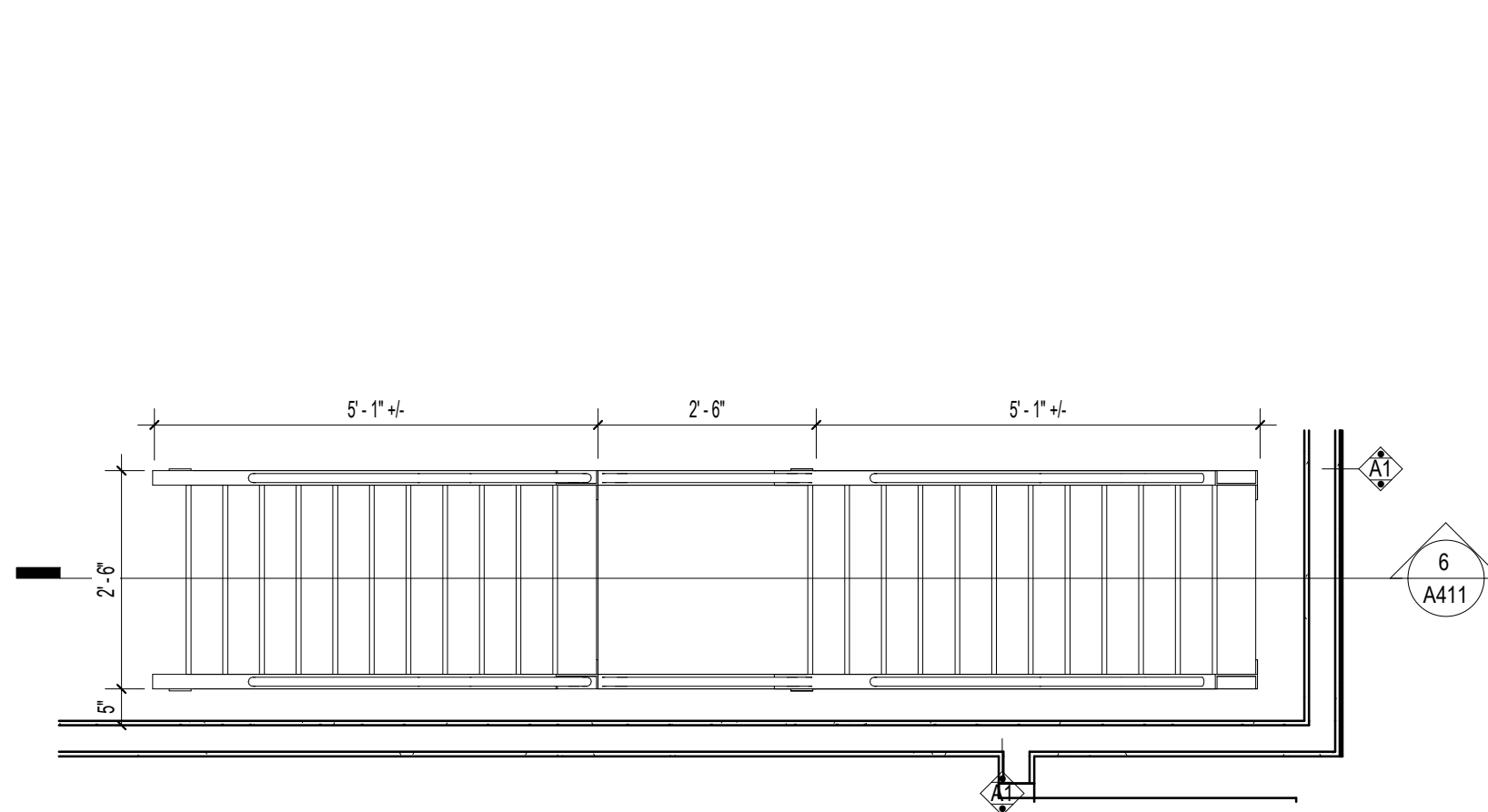
6 SHIPS LADDER SECTION
1/2" = 1'-0"



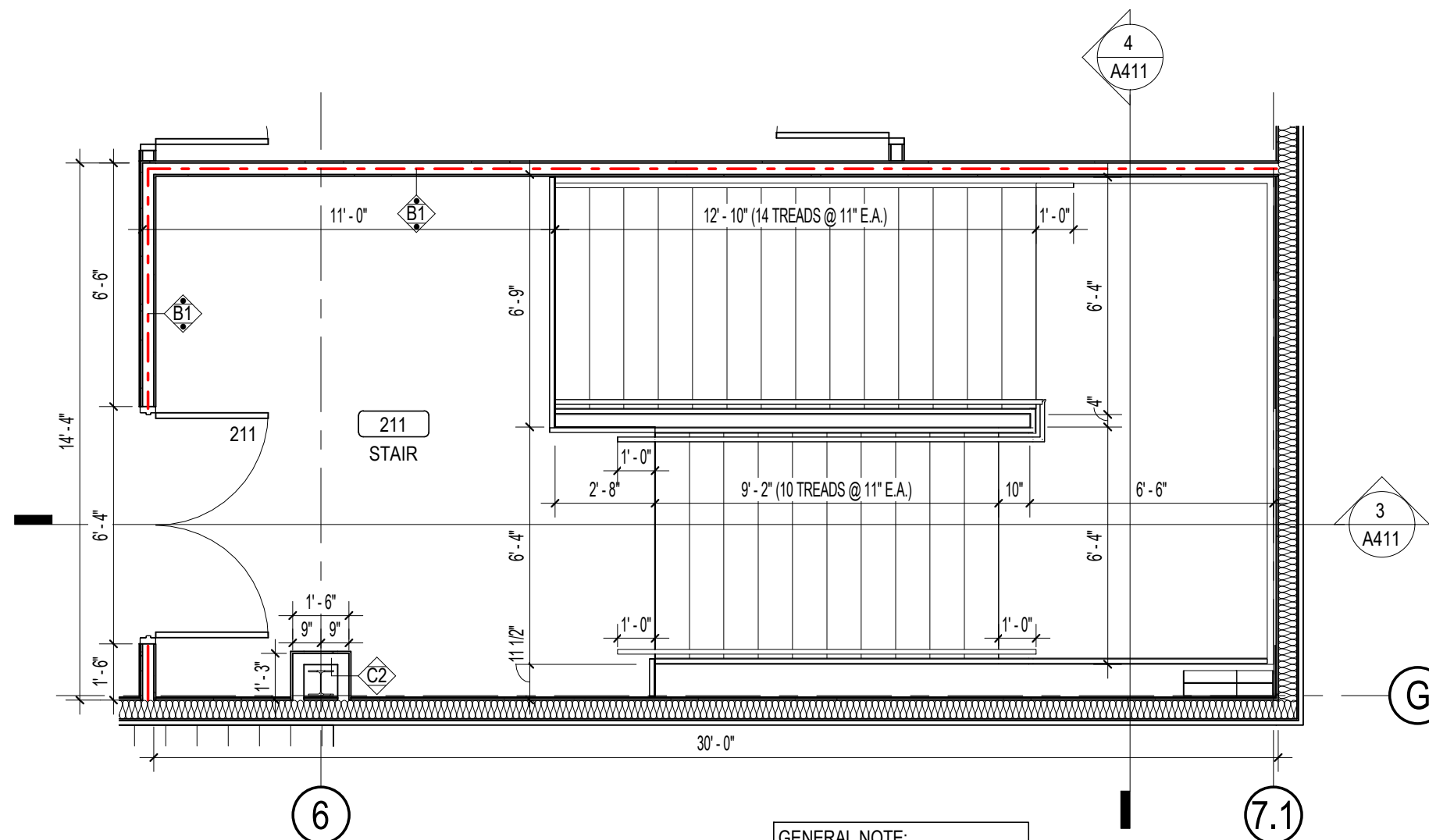
4 STAIR SECTION
1/4" = 1'-0"



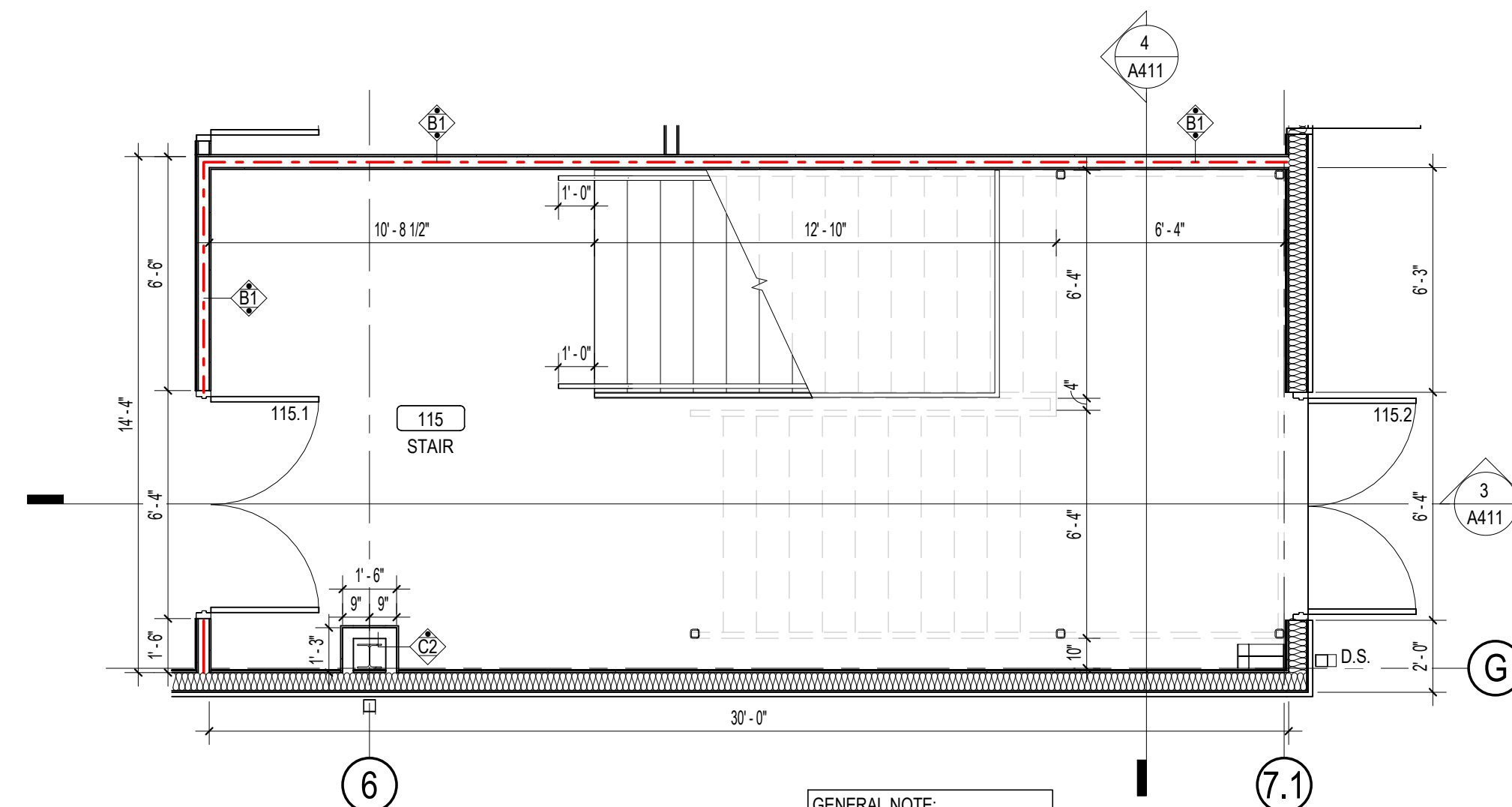
3 STAIR SECTION
1/4" = 1'-0"



5 ENLARGED SHIPS LADDER PLAN
1/2" = 1'-0"



2 ENLARGED STAIR PLAN
1/4" = 1'-0"



1 ENLARGED STAIR PLAN
1/4" = 1'-0"

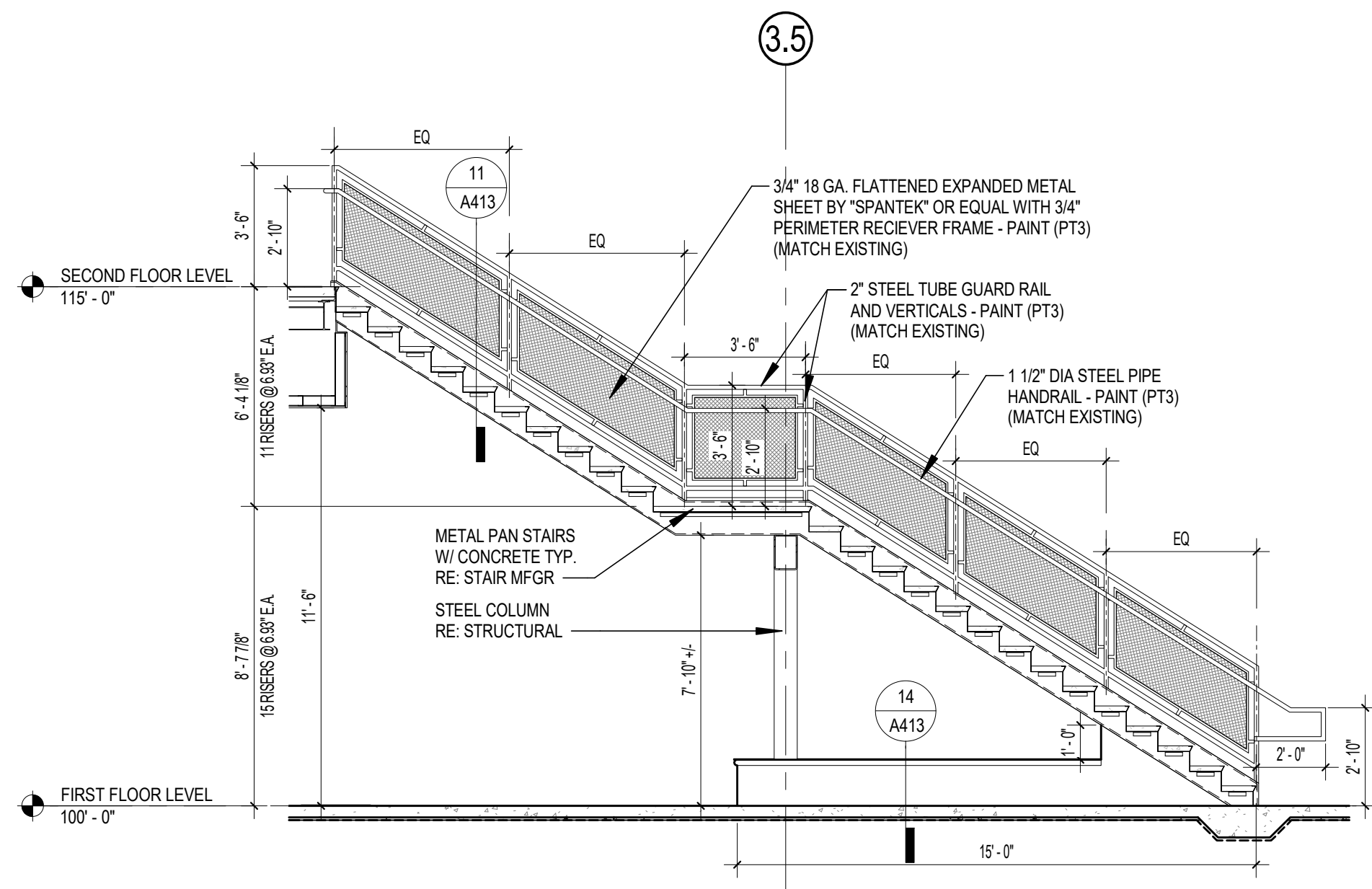
NOTE: ALL STEEL TO MATCH EXISTING, BE SHOP PRIMED AND FIELD PAINTED. GRIND ALL WELDS SMOOTH - PAINT (PT3)



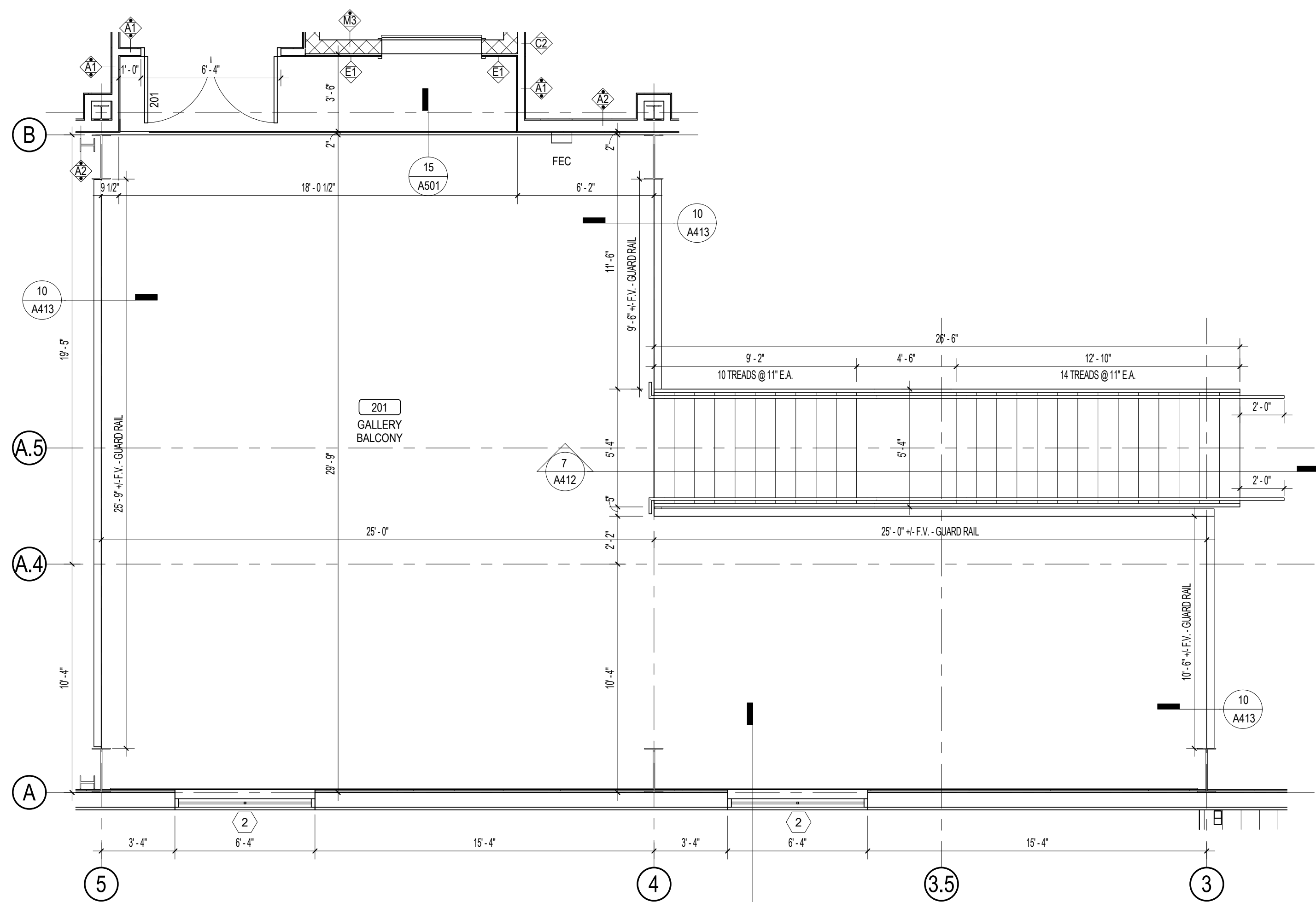
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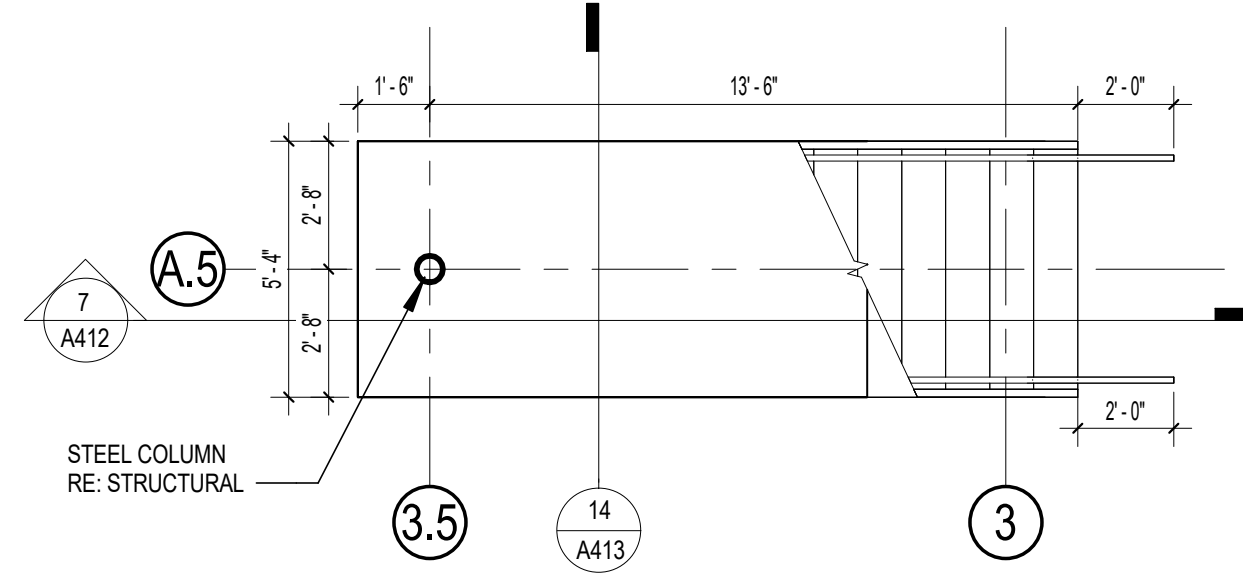
Reference Cover Sheet for Consultant Directory



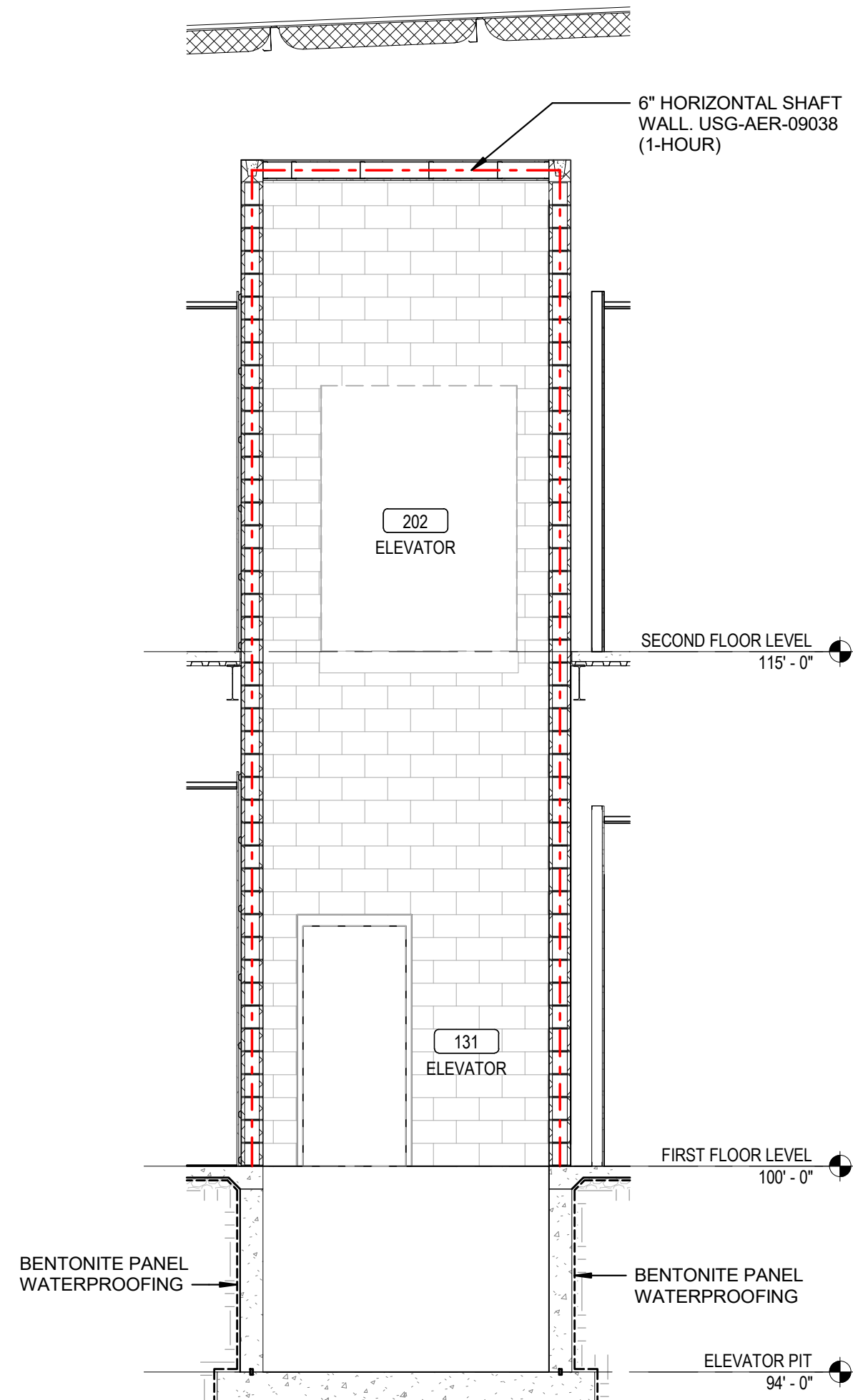
7 STAIR SECTION
1/4" = 1'-0"



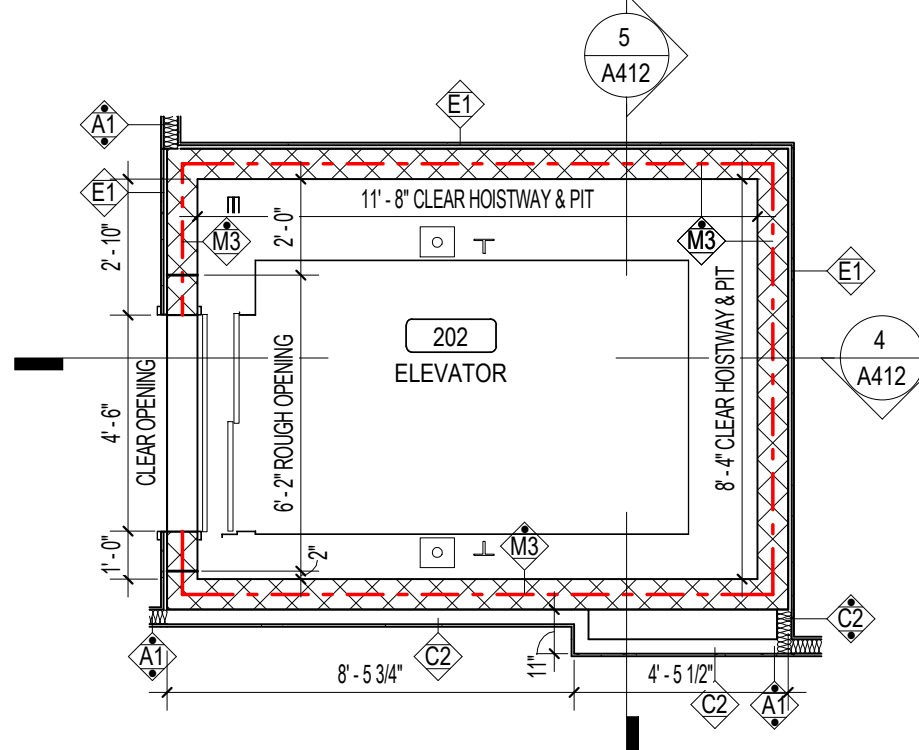
6 ENLARGED STAIR PLAN
1/4" = 1'-0"



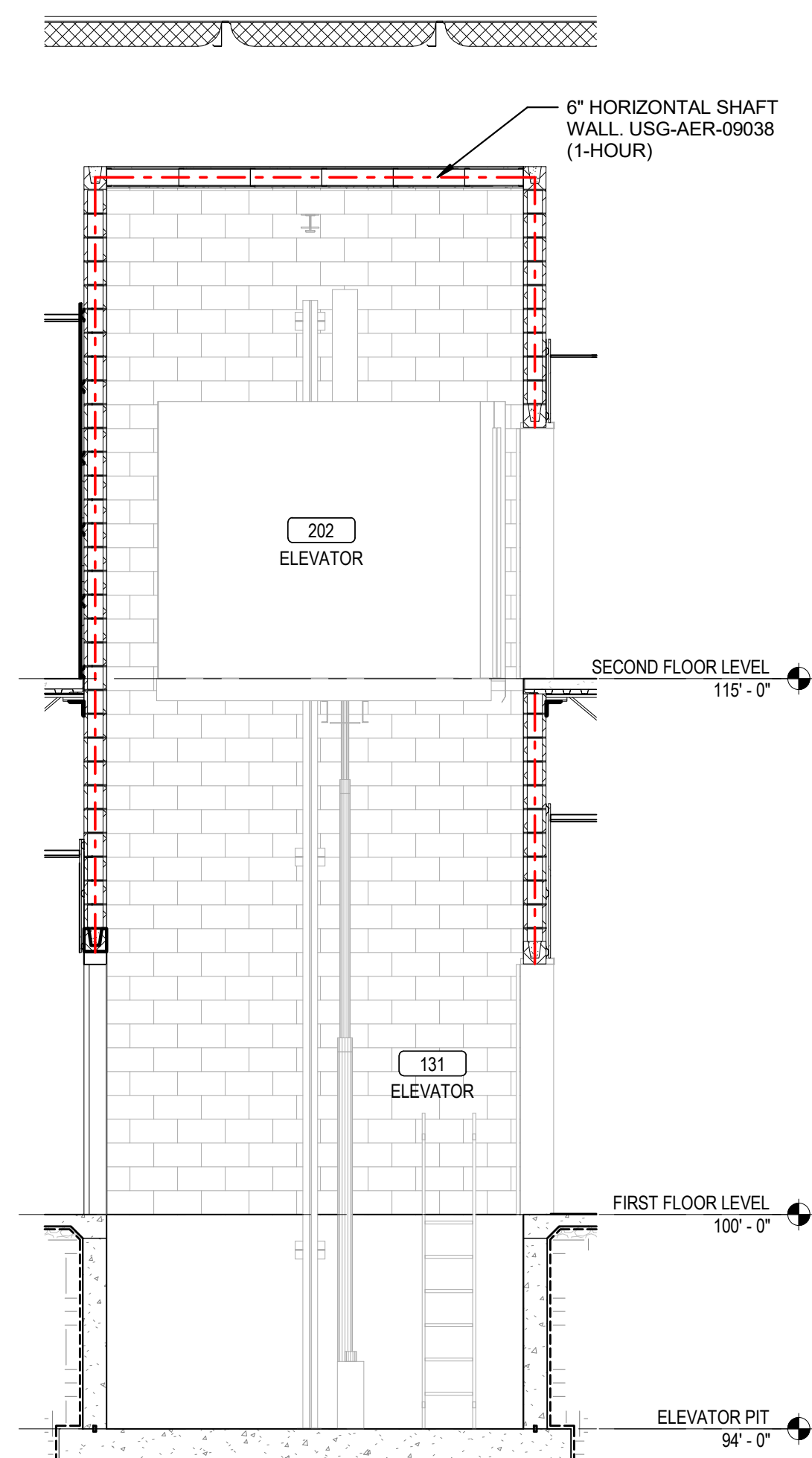
3 ENLARGED STAIR PLAN
1/4" = 1'-0"



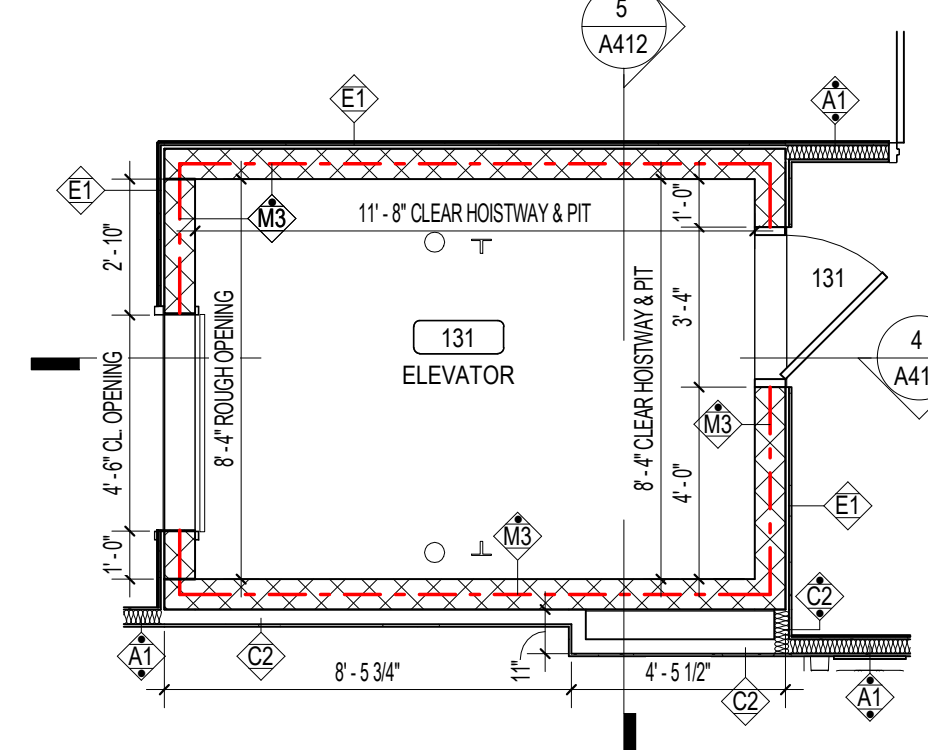
5 ELEVATOR SECTION
1/4" = 1'-0"



2 ENLARGED ELEVATOR PLAN
1/4" = 1'-0"



4 ELEVATOR SECTION
1/4" = 1'-0"



1 ENLARGED ELEVATOR PLAN
1/4" = 1'-0"

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EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
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1 04.09.2025 REV#2

ENLARGED STAIR AND ELEVATOR PLANS, SECTIONS AND DETAILS

JOB 2023.14
ISSUE 03.03.2025
DRAWN BY: BG
CHKD BY: SE

A412

SCALE 1/4" = 1'-0"

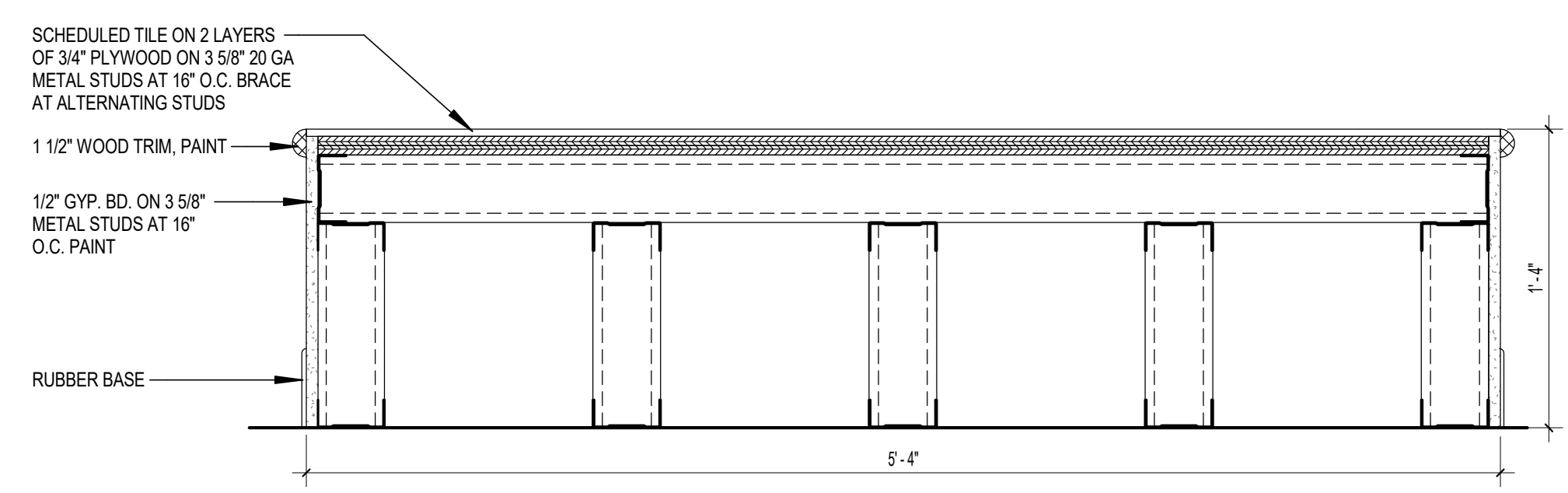
04.09.2025

NOTE: ALL STEEL TO MATCH EXISTING. BE SHOP PRIMED AND FIELD PAINTED. GRIND ALL WELDS SMOOTH - PAINT (PT3)

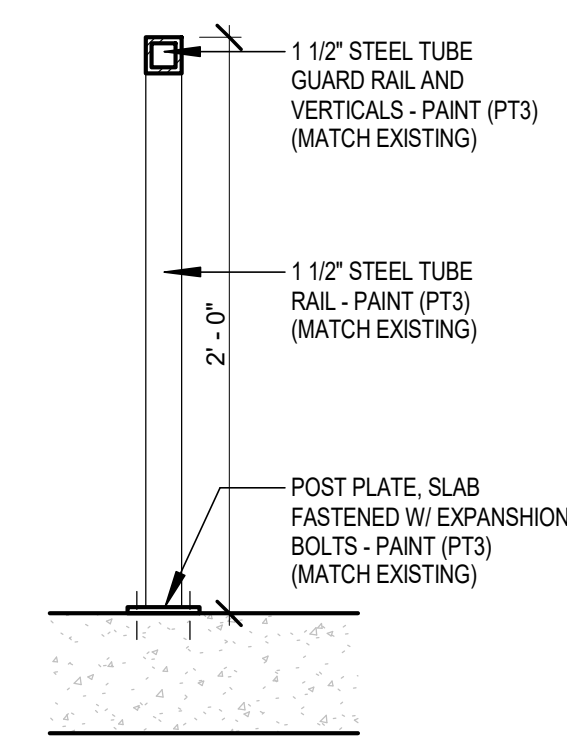


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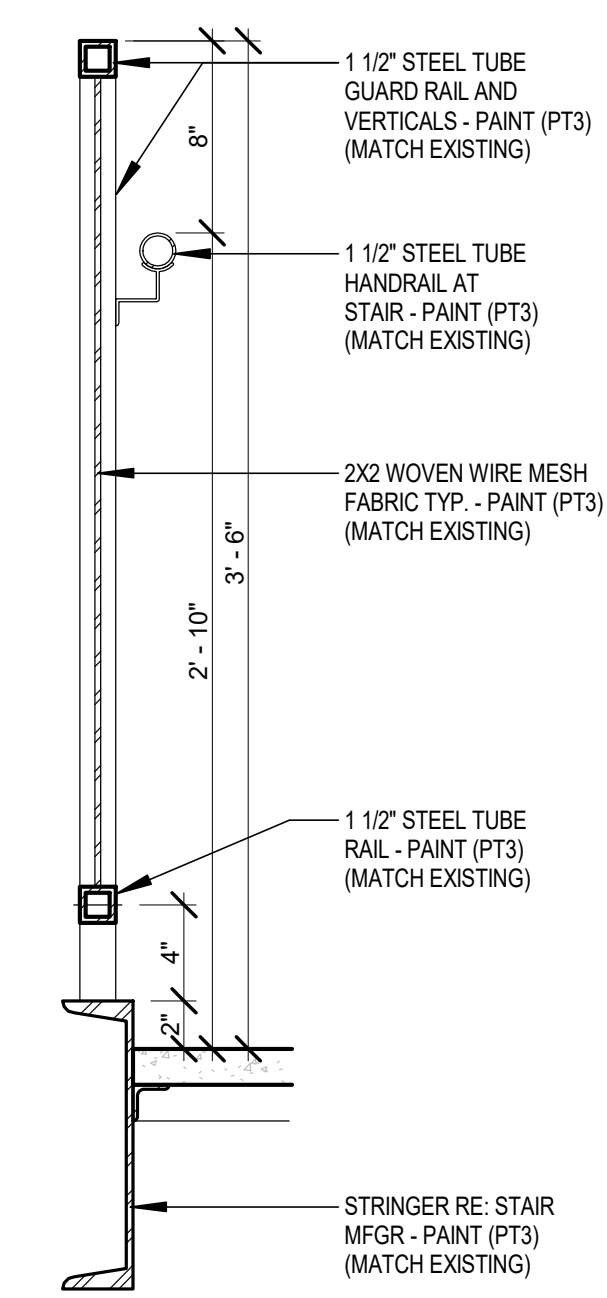
CONSULTANT:
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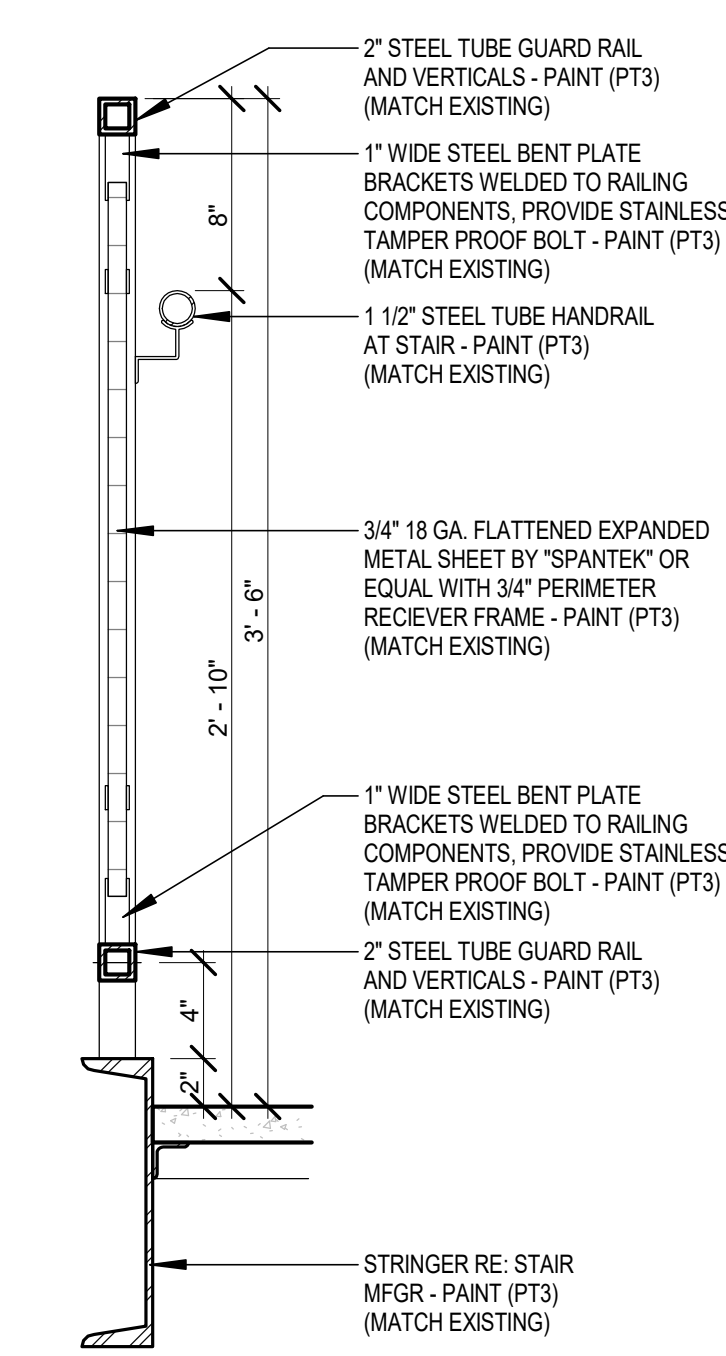
14 SEAT WALL DETAIL UNDER GALLERY STAIR
1 1/2" = 1'-0"



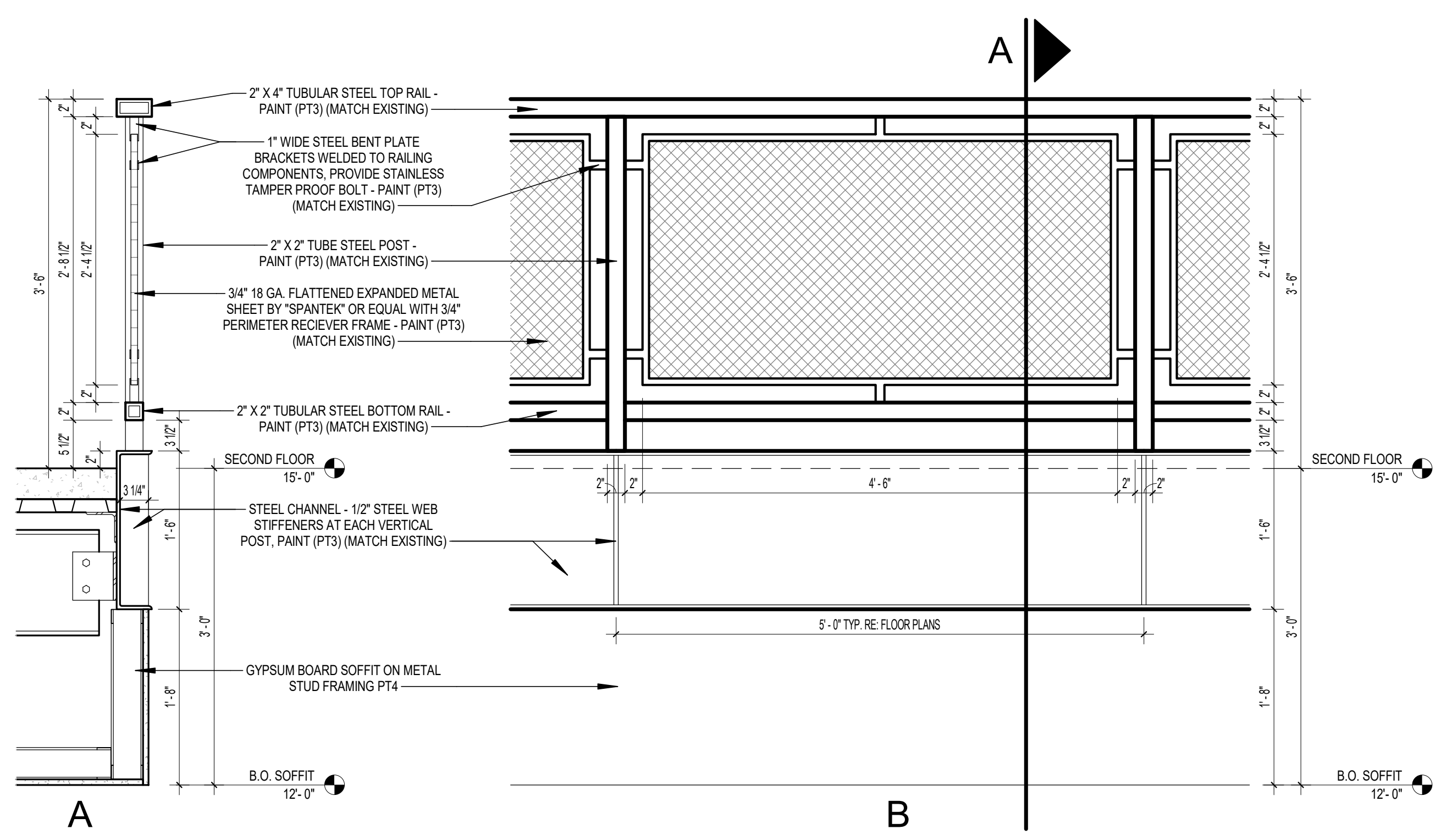
13 GUARD RAIL SECTION
1 1/2" = 1'-0"



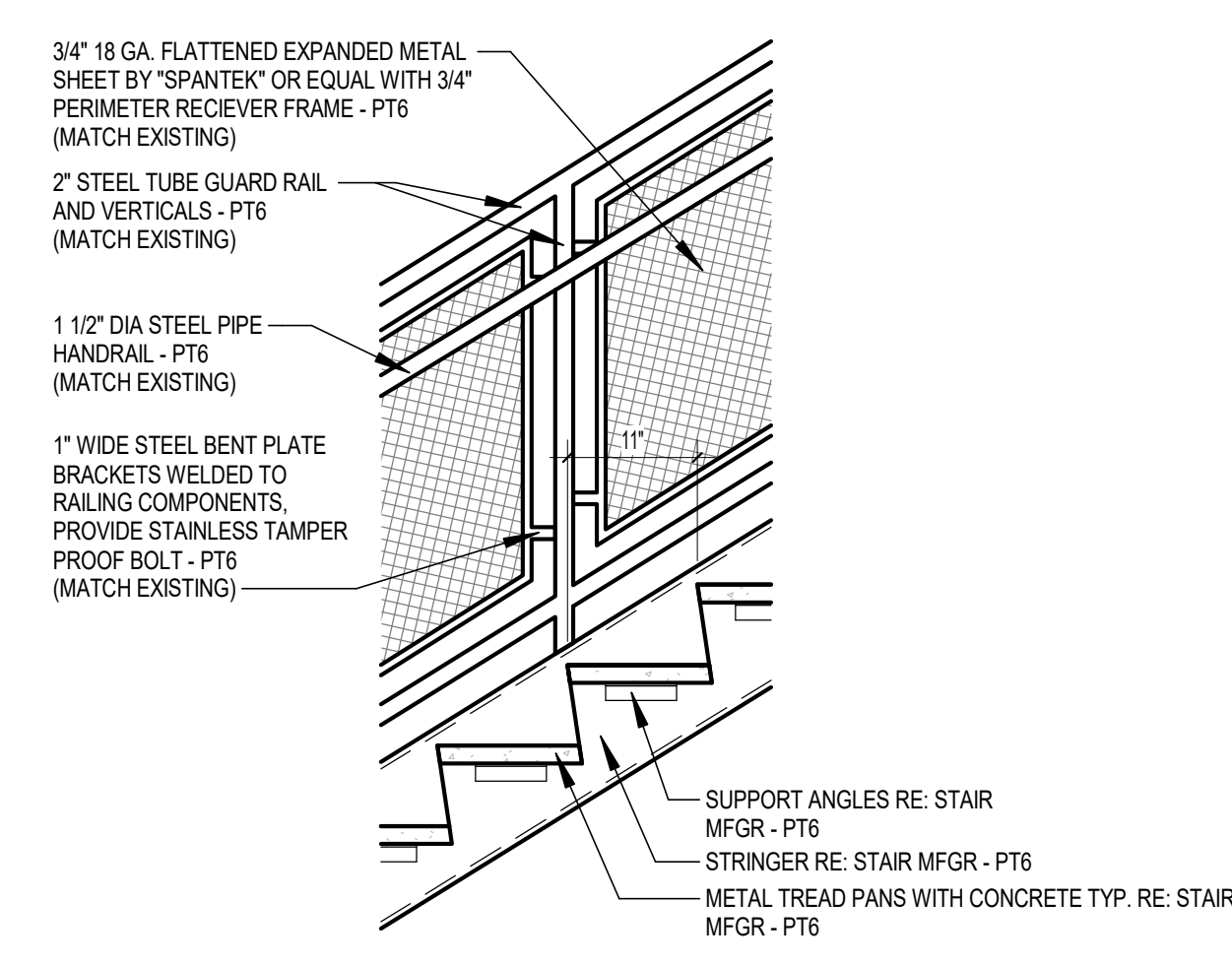
12 GUARD RAIL SECTION
1 1/2" = 1'-0"



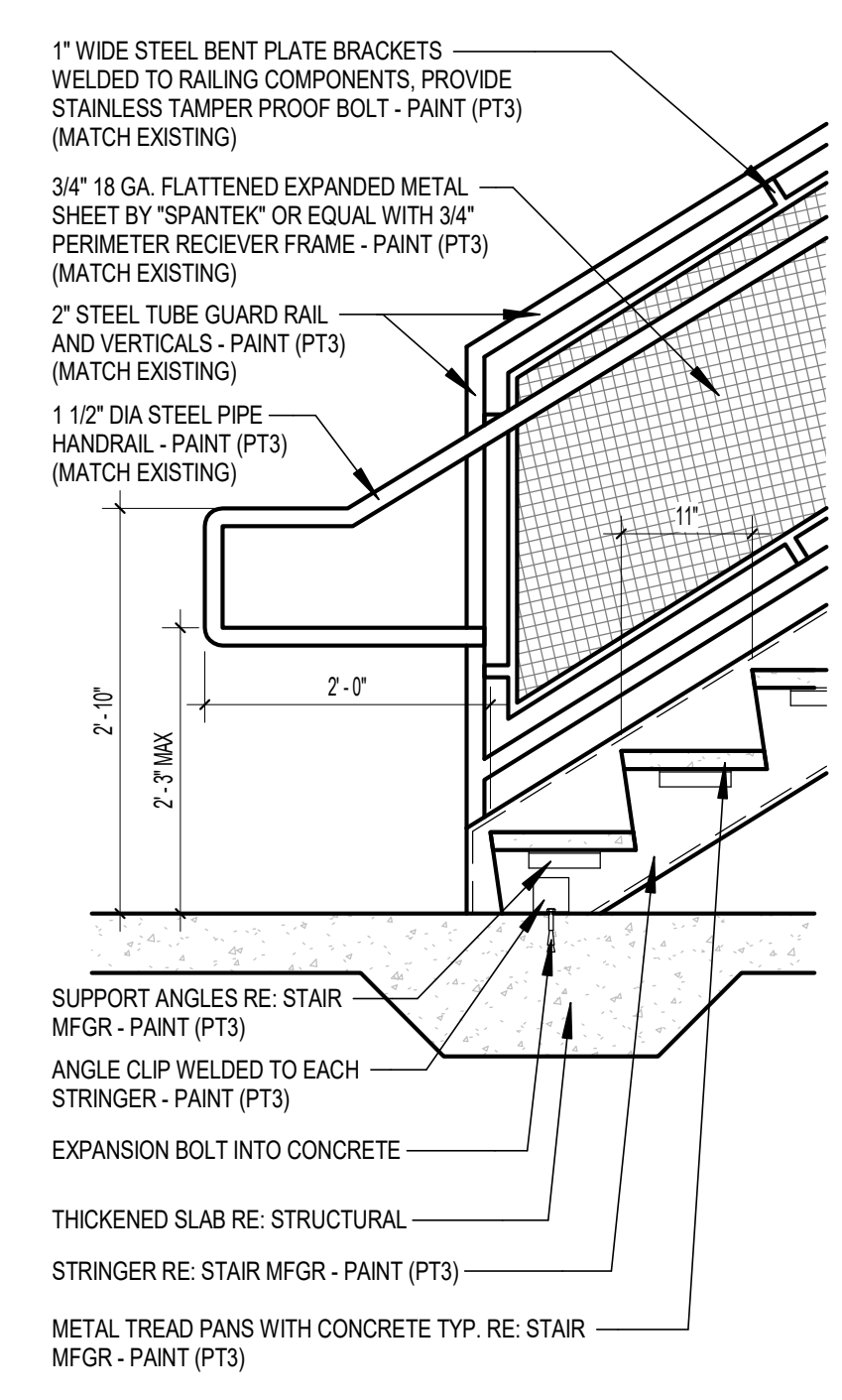
11 GUARD RAIL SECTION
1 1/2" = 1'-0"



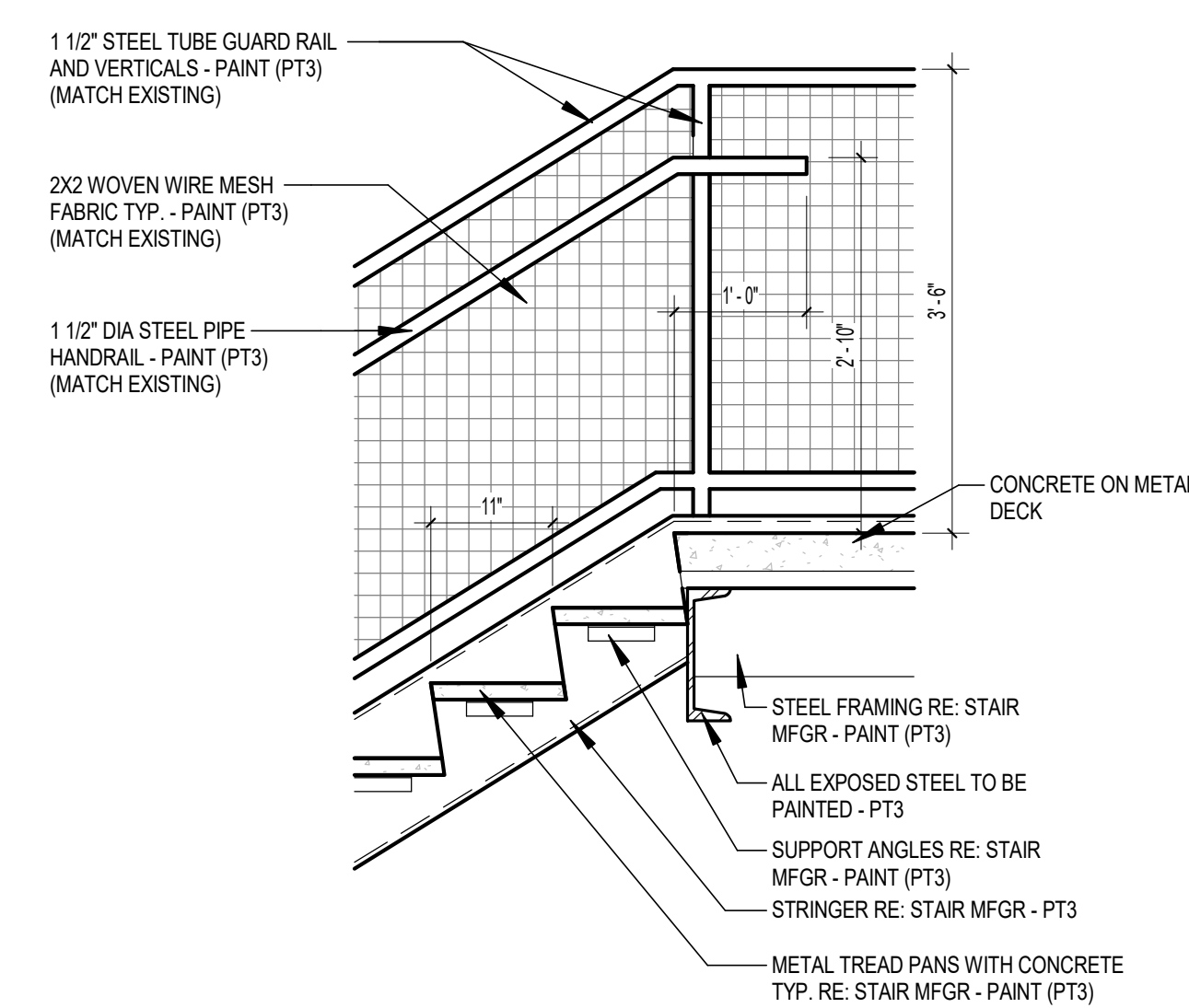
10 TYP GUARD RAIL ELEVATION AND SECTION
1" = 1'-0"



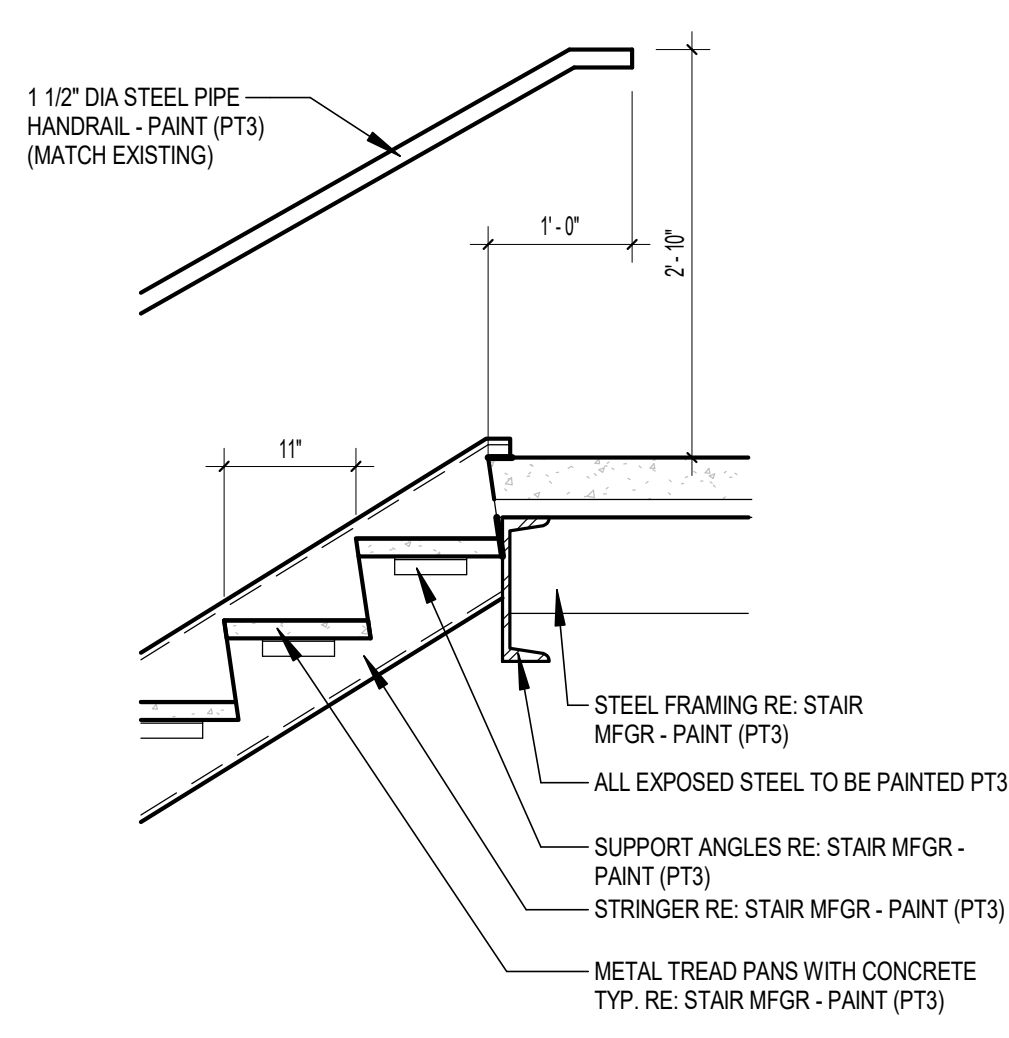
8 STAIR DETAIL
3/4" = 1'-0"



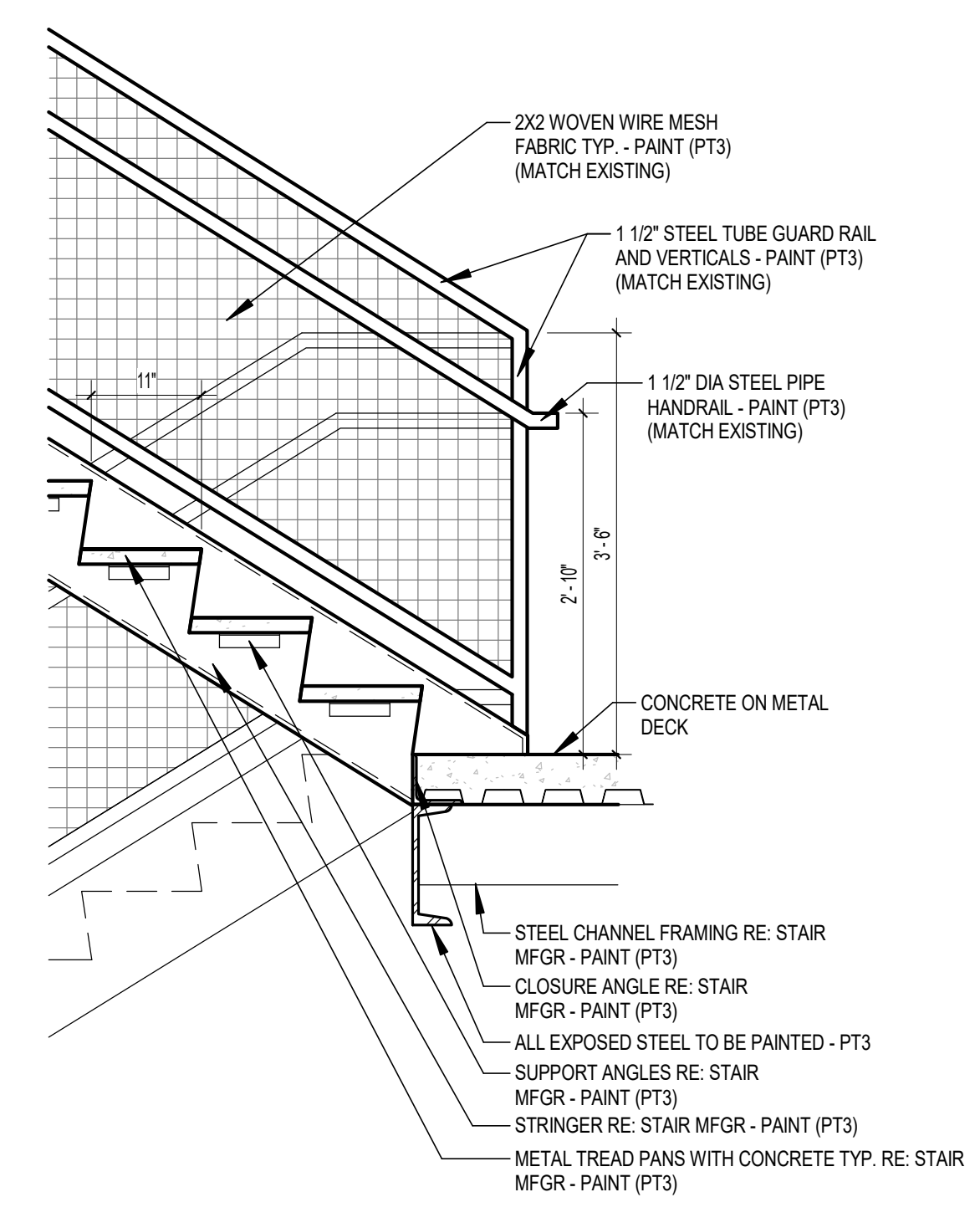
6 STAIR DETAIL
3/4" = 1'-0"



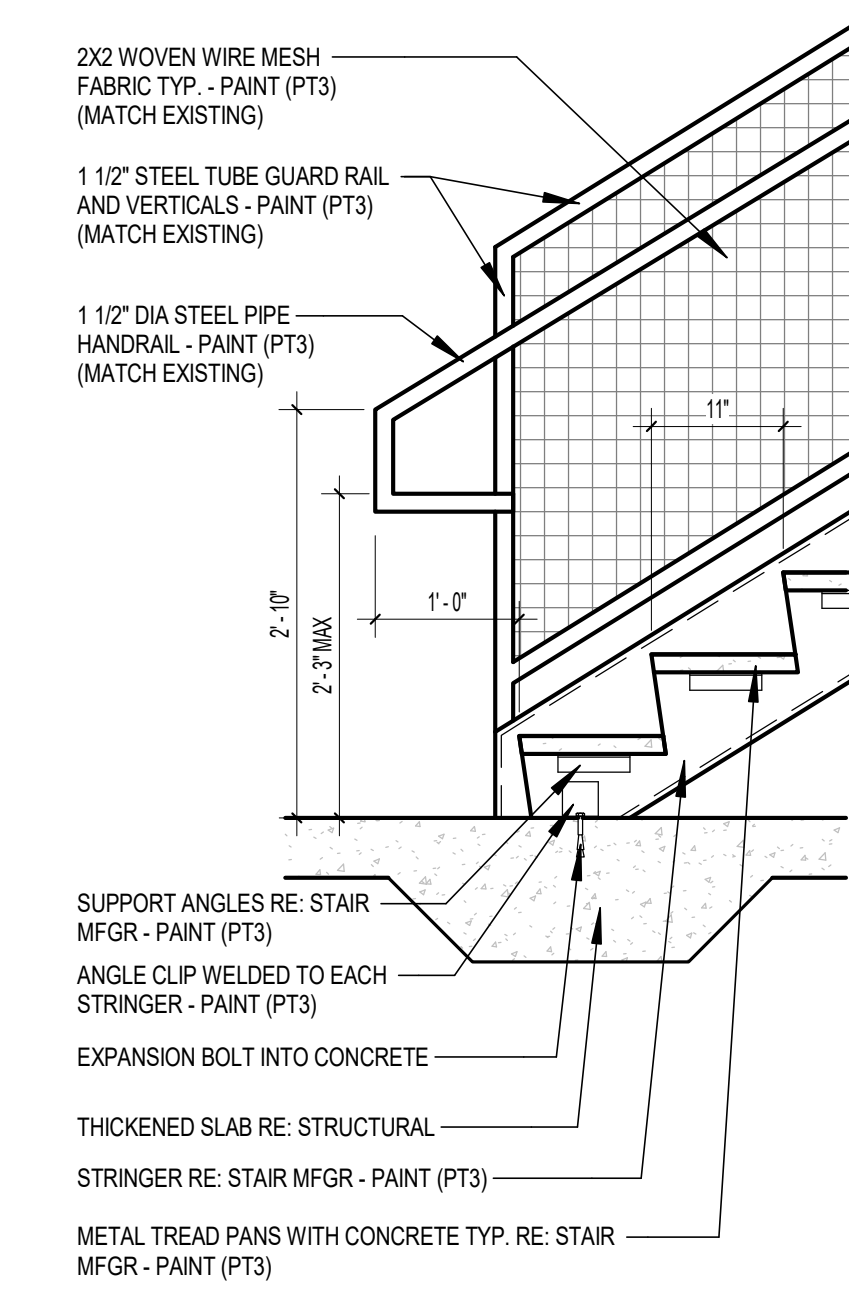
5 STAIR DETAIL
3/4" = 1'-0"



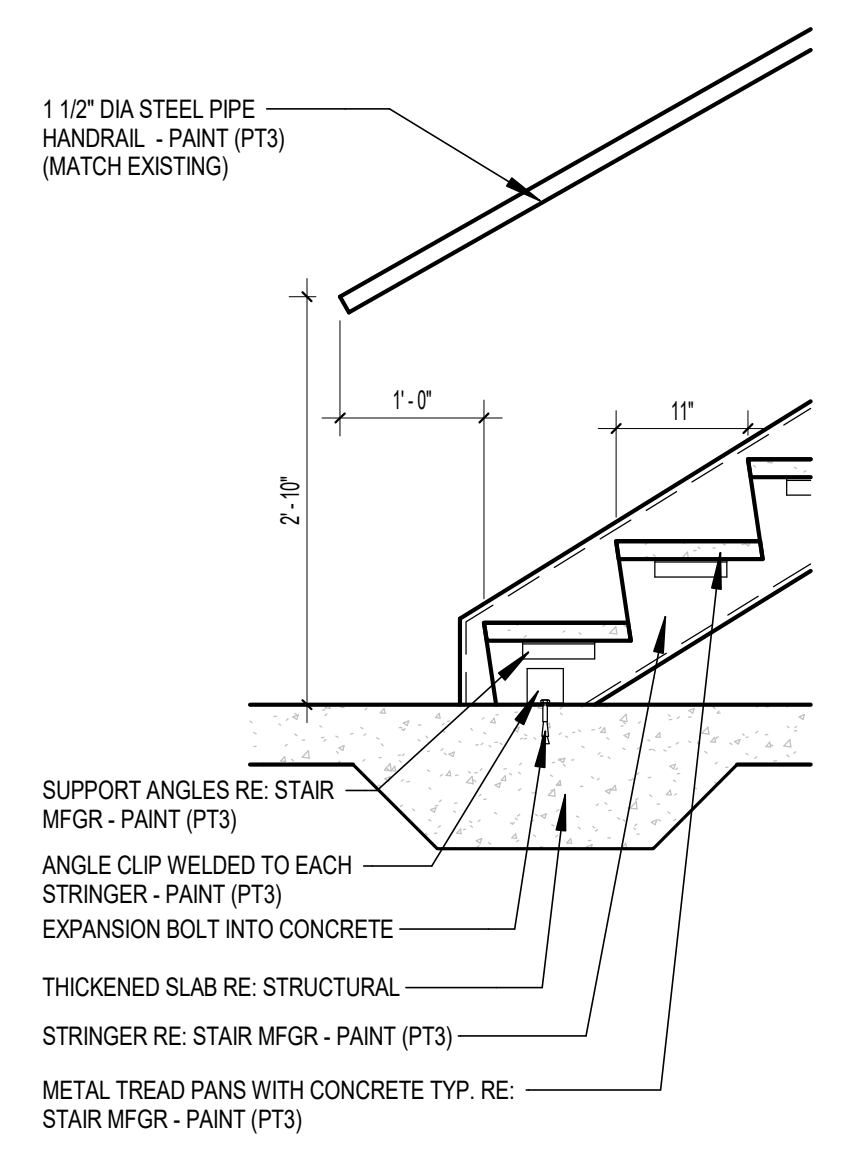
4 STAIR DETAIL
3/4" = 1'-0"



3 STAIR DETAIL
3/4" = 1'-0"



2 STAIR DETAIL
3/4" = 1'-0"



1 STAIR DETAIL
3/4" = 1'-0"

100% CONSTRUCTION DOCUMENTS
03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

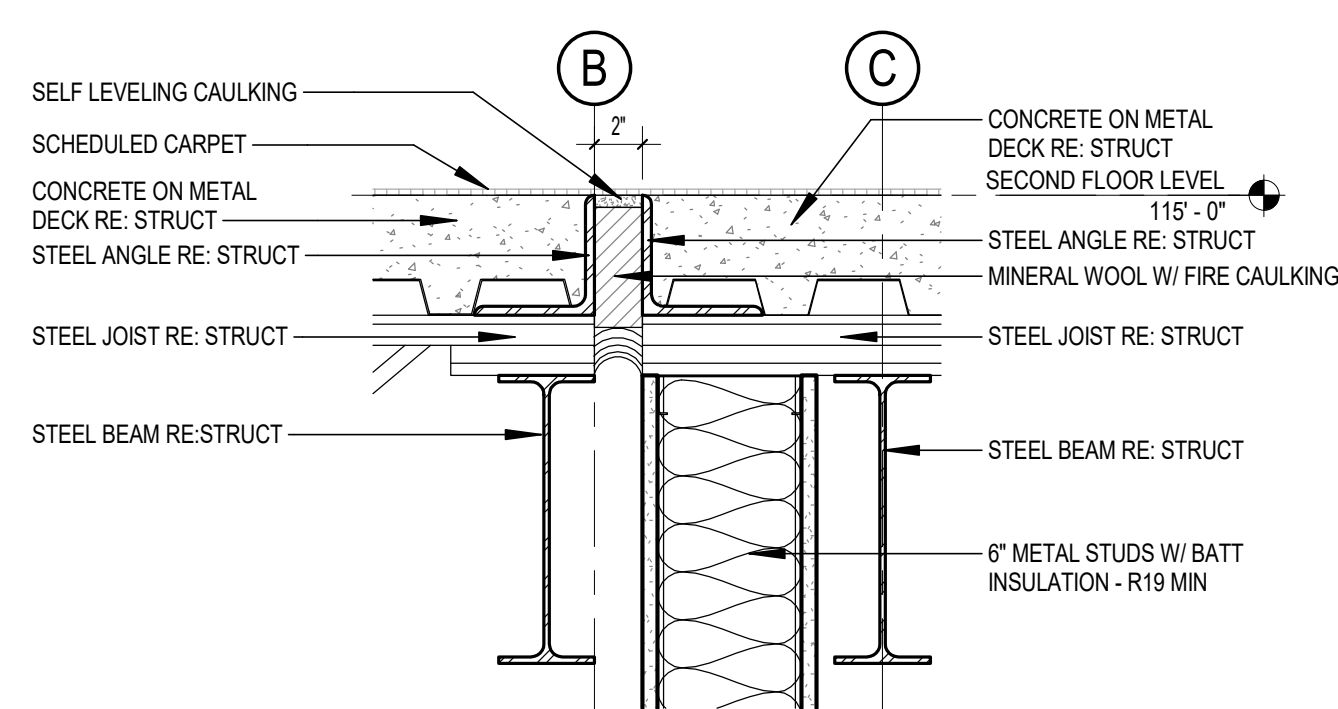
10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS
1 04.09.2025 REV#2

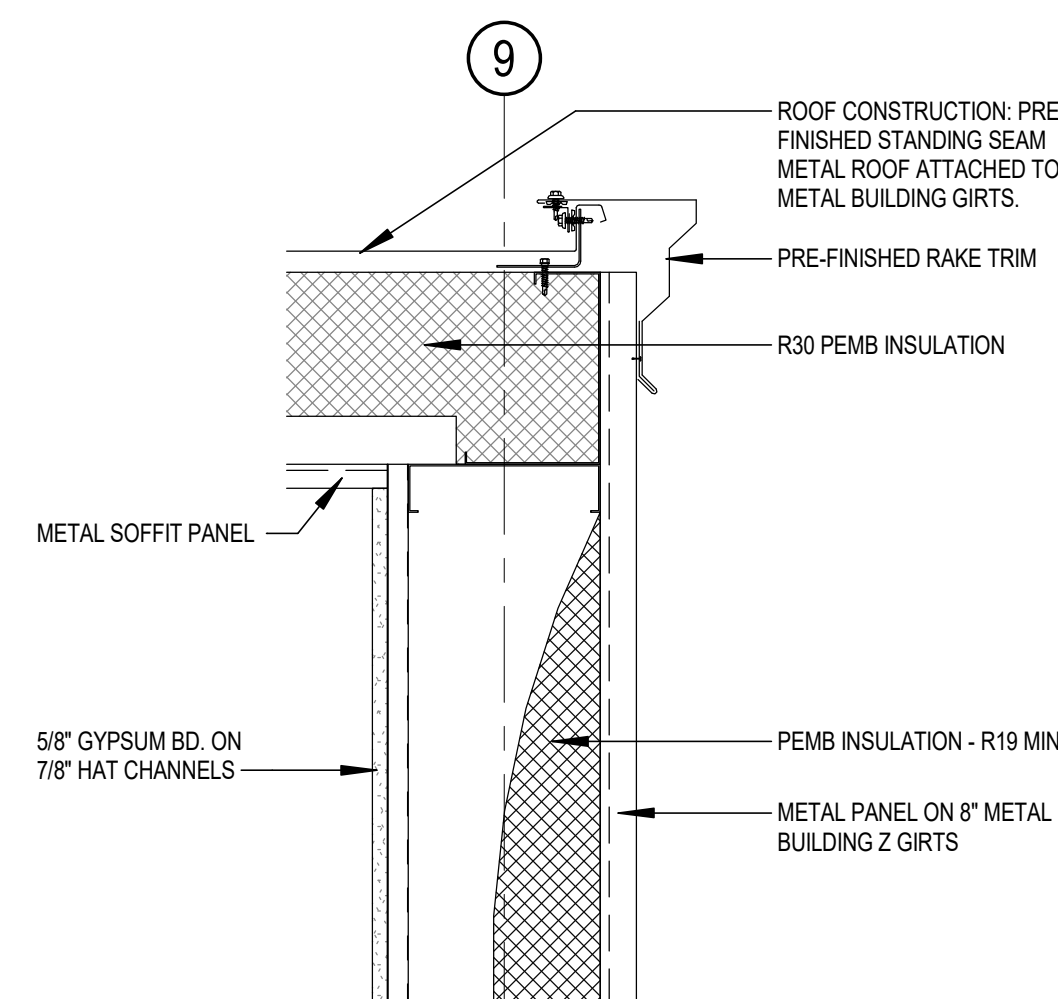
ENLARGED STAIR AND RAILING DETAILS

JOB: 2023.14
ISSUE: 03.03.2025
DRAWN BY: BG
CHKD BY: SE
A413
SCALE: As indicated

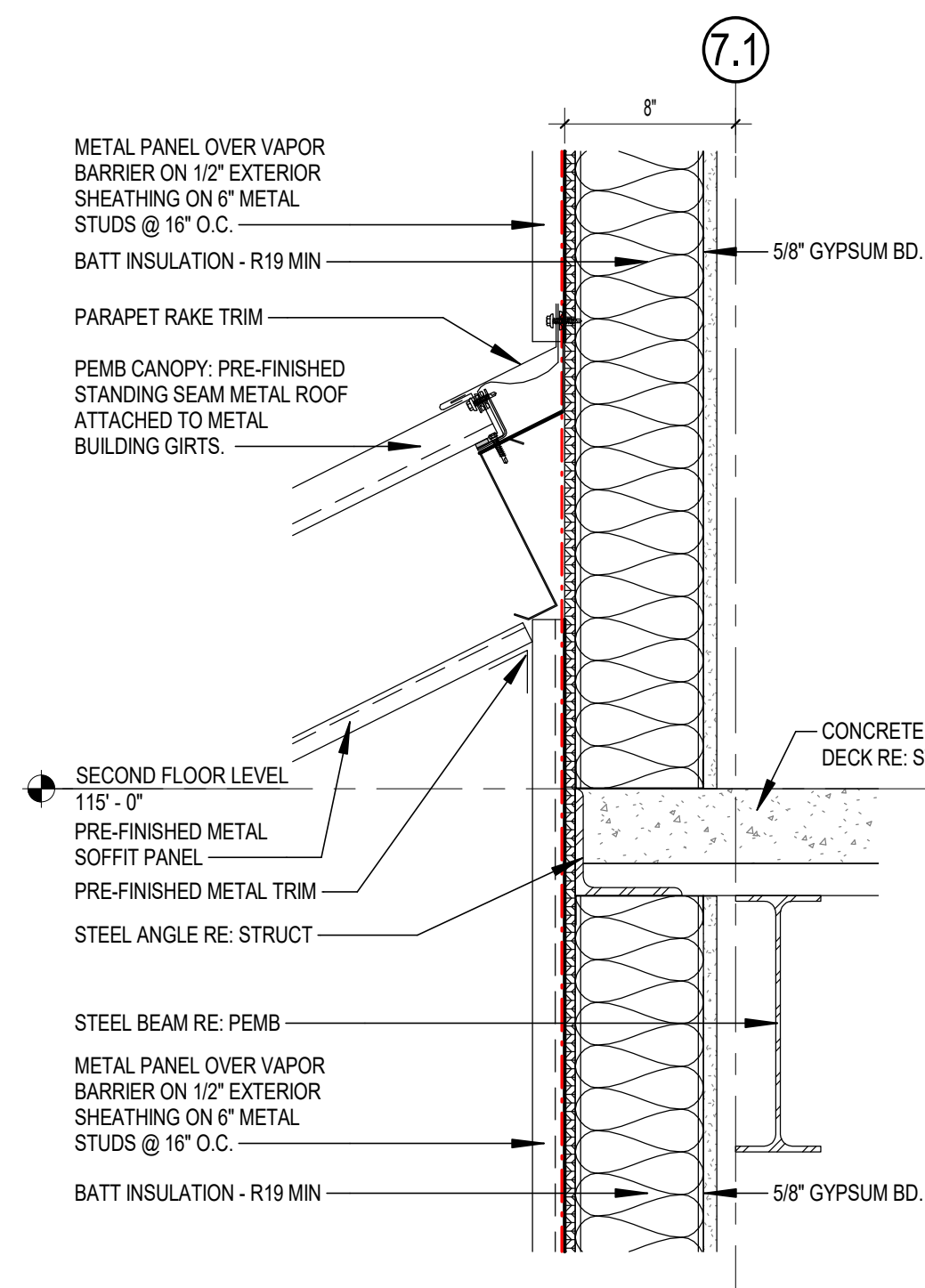
04.09.2025



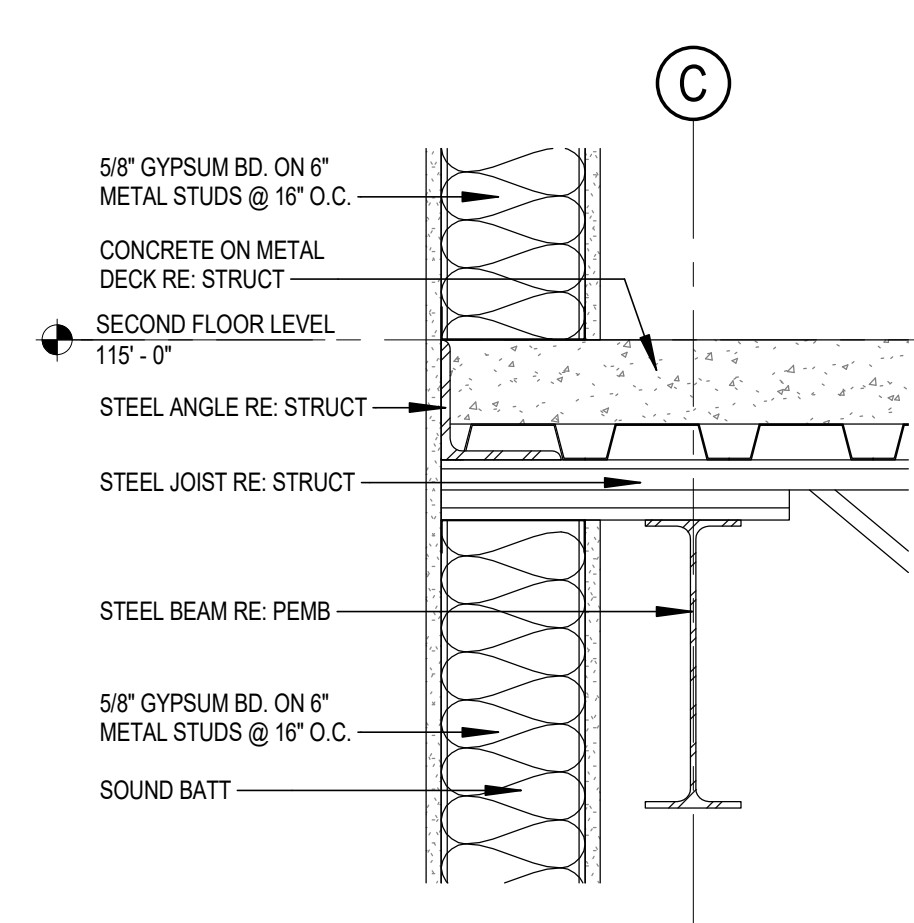
15 SECTION DETAIL
1 1/2" = 1'-0"



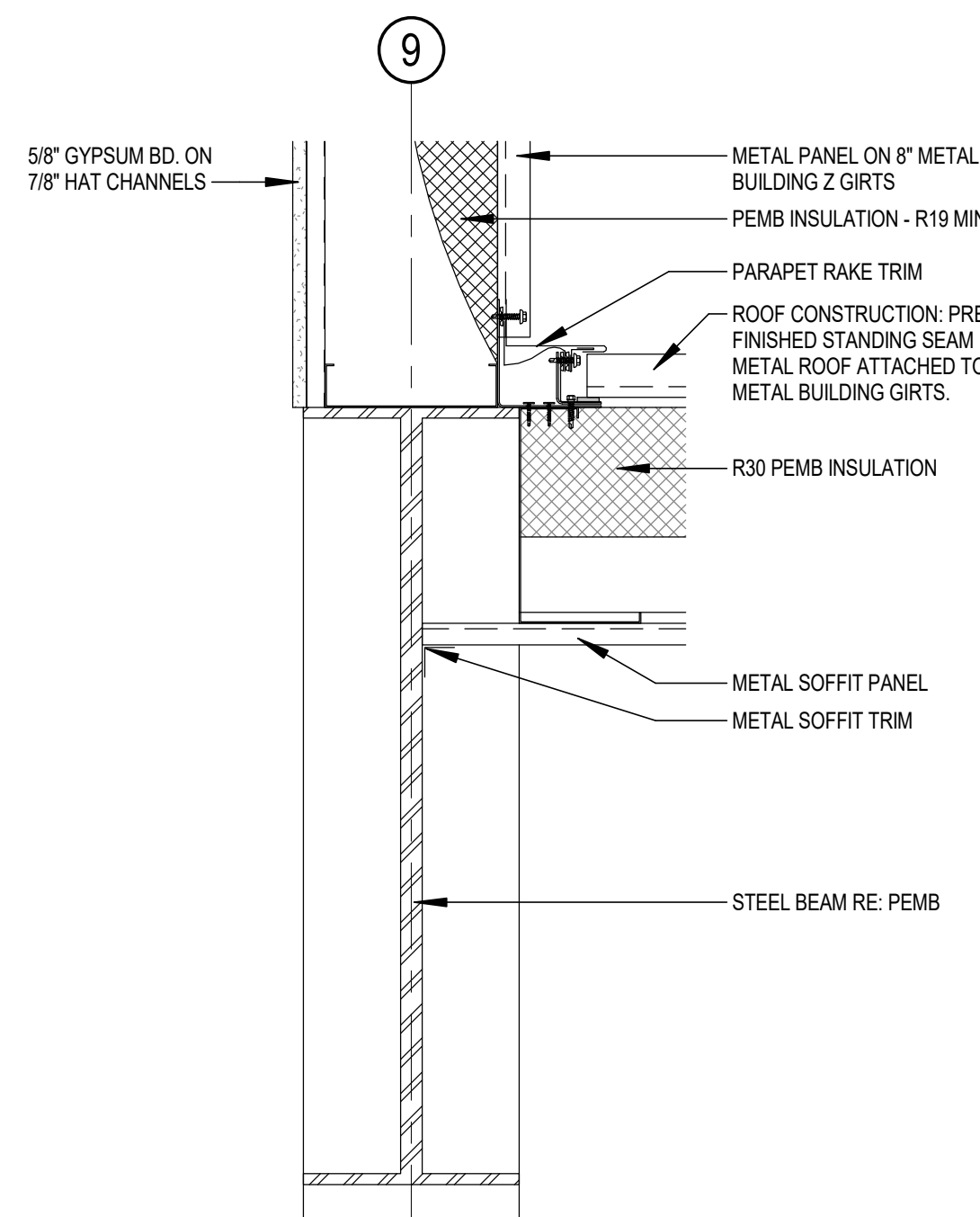
13 ROOF DETAIL
1 1/2" = 1'-0"



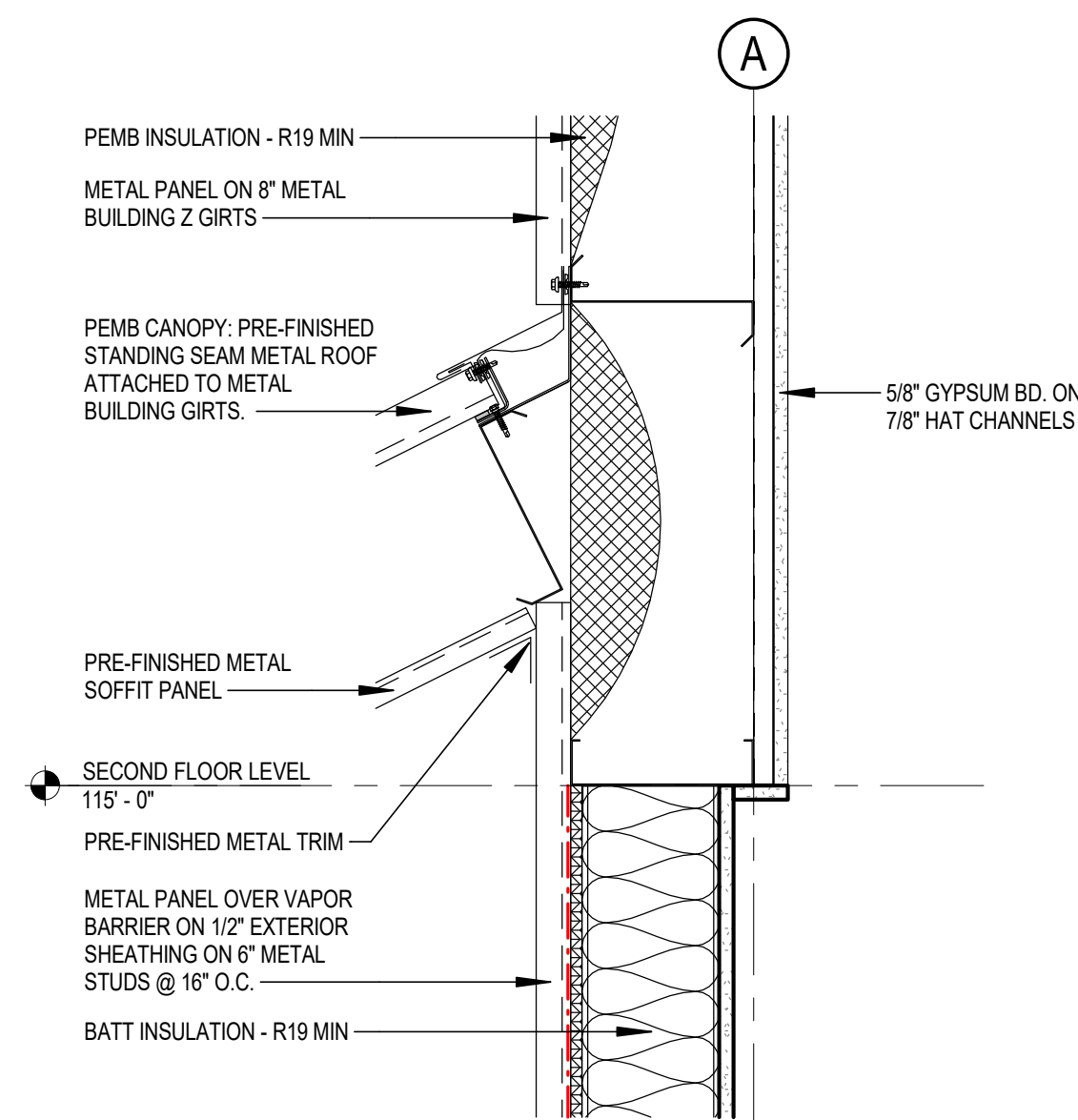
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1 1/2" = 1'-0"



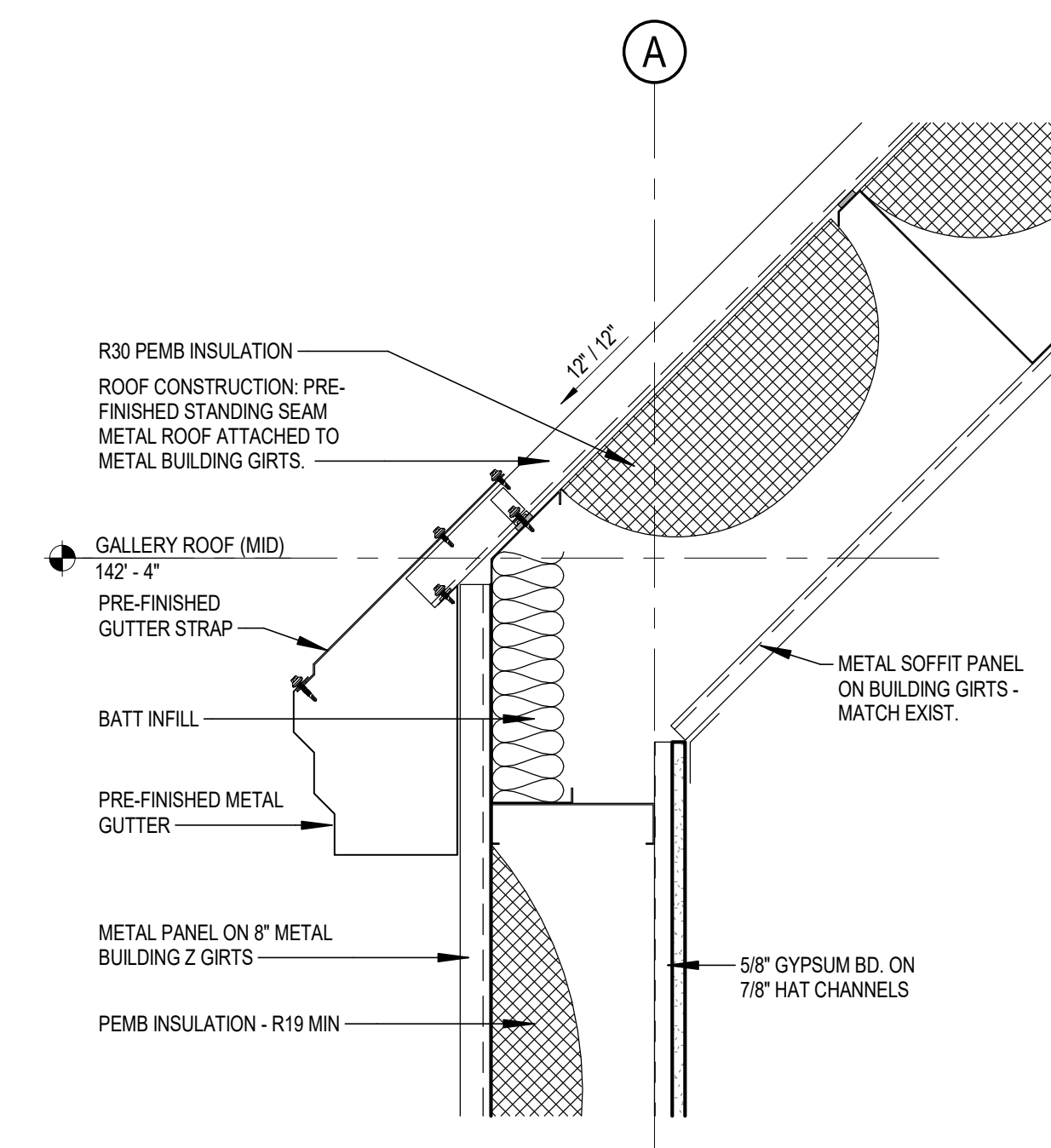
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1 1/2" = 1'-0"



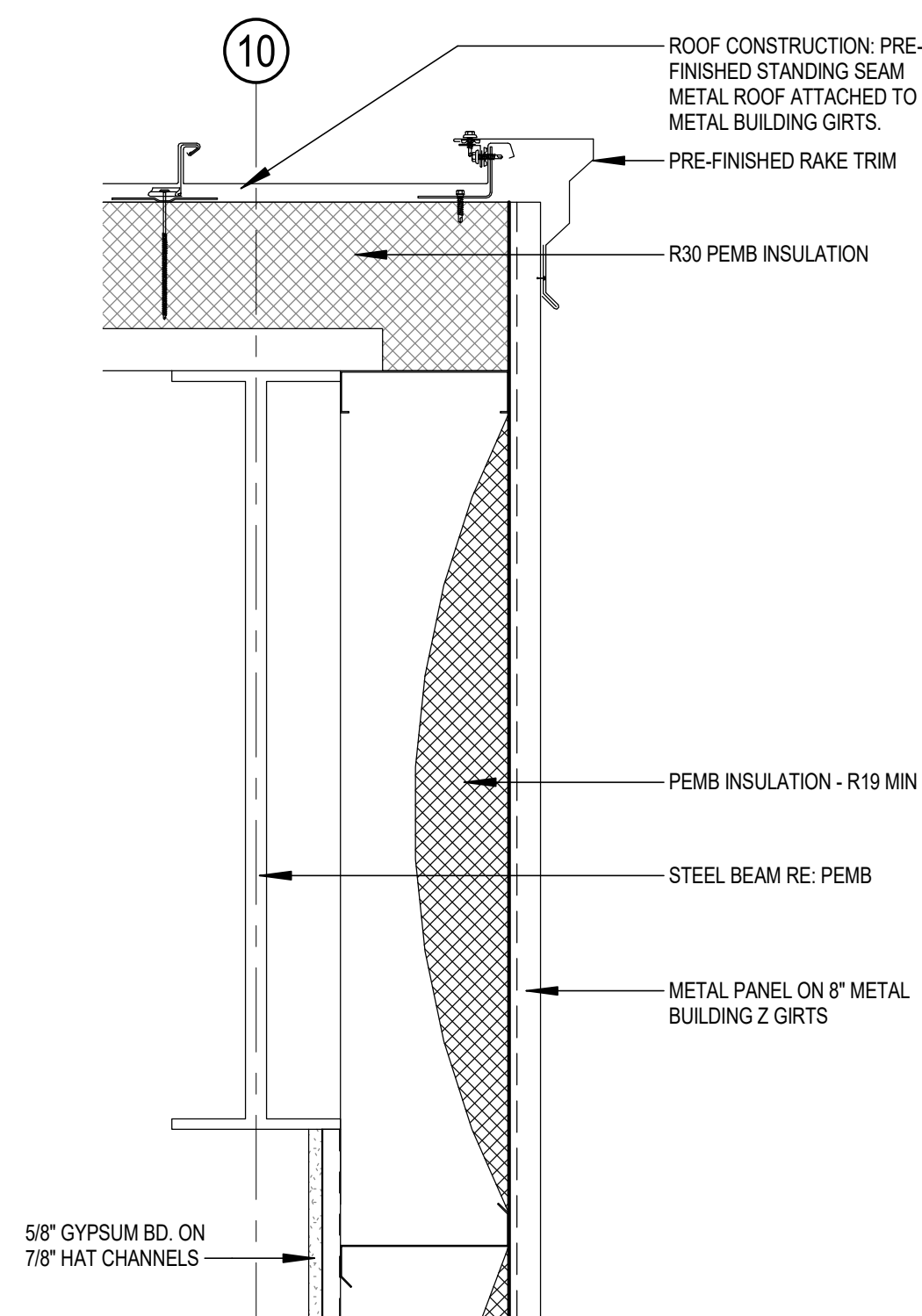
14 ROOF DETAIL
1 1/2" = 1'-0"



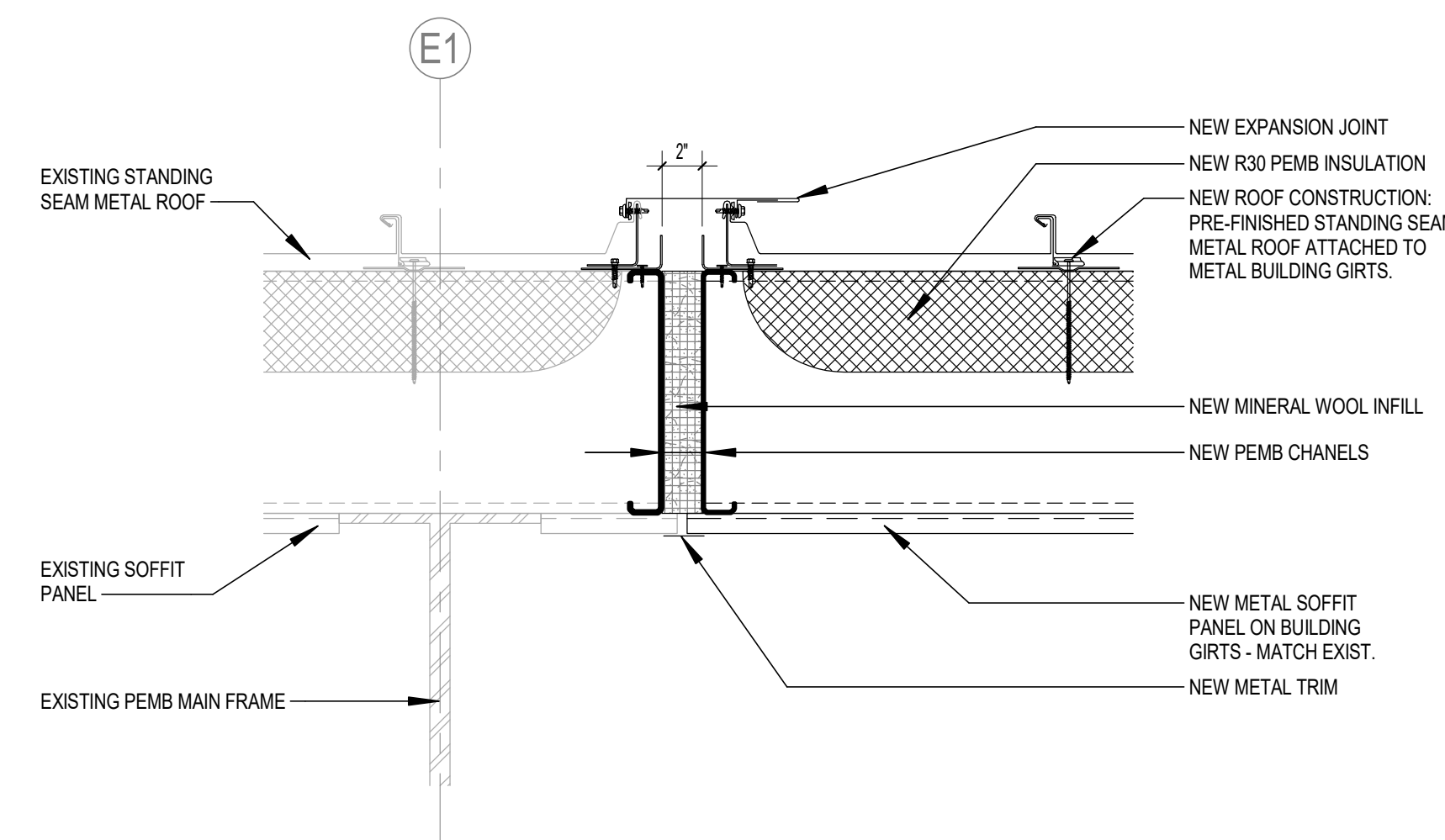
12 SECTION DETAIL
1 1/2" = 1'-0"



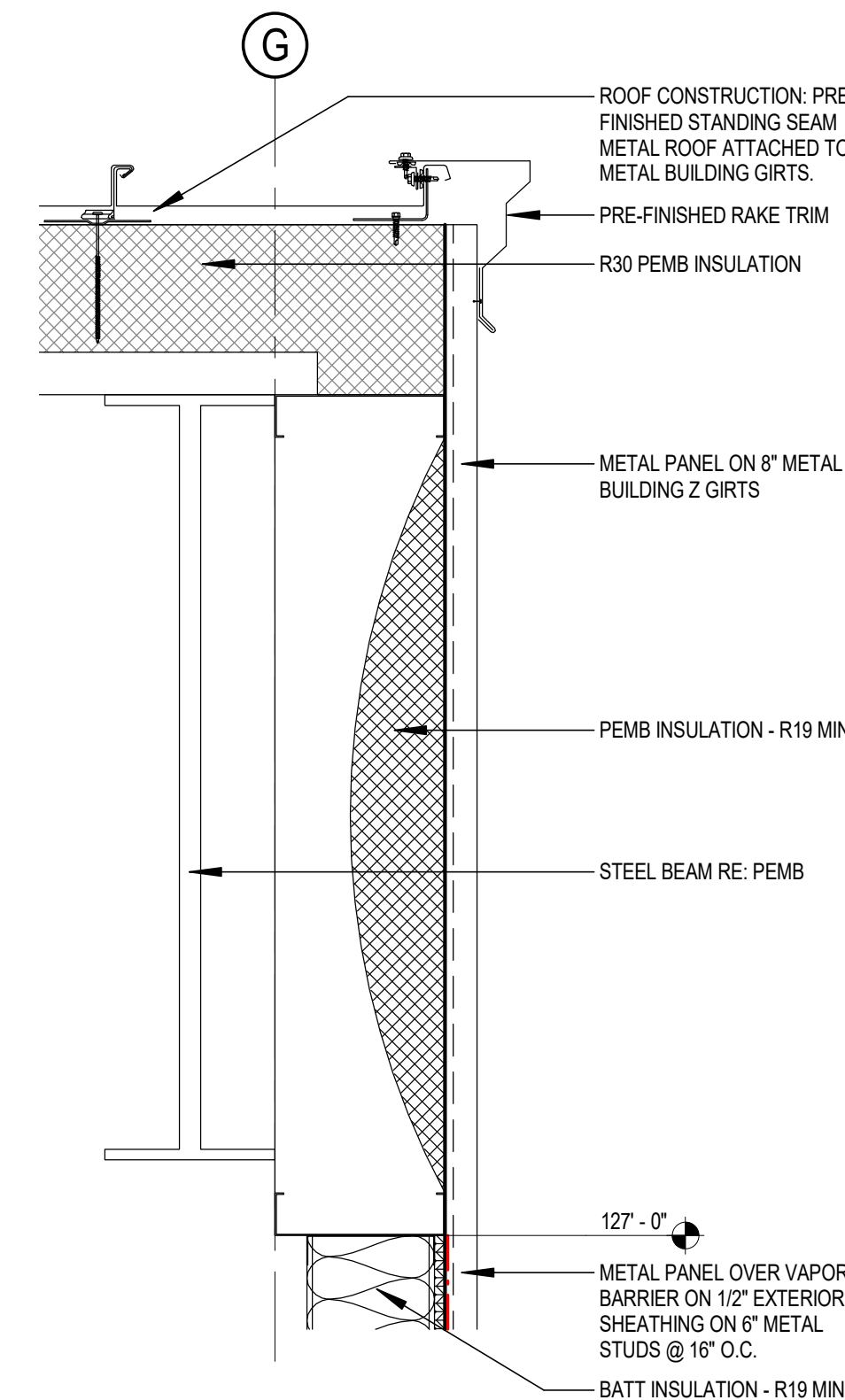
9 ROOF DETAIL
1 1/2" = 1'-0"



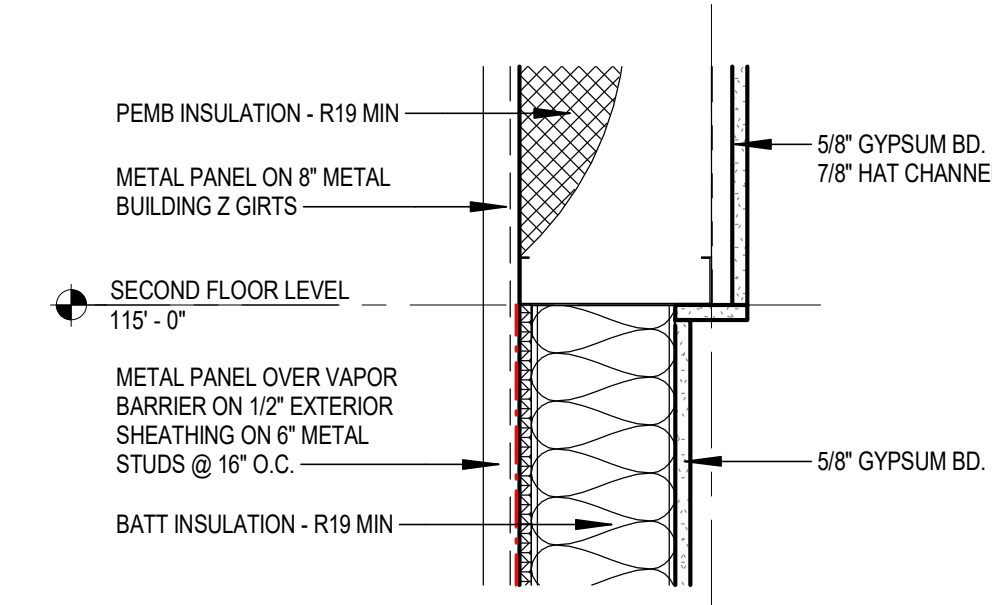
8 ROOF DETAIL
1 1/2" = 1'-0"



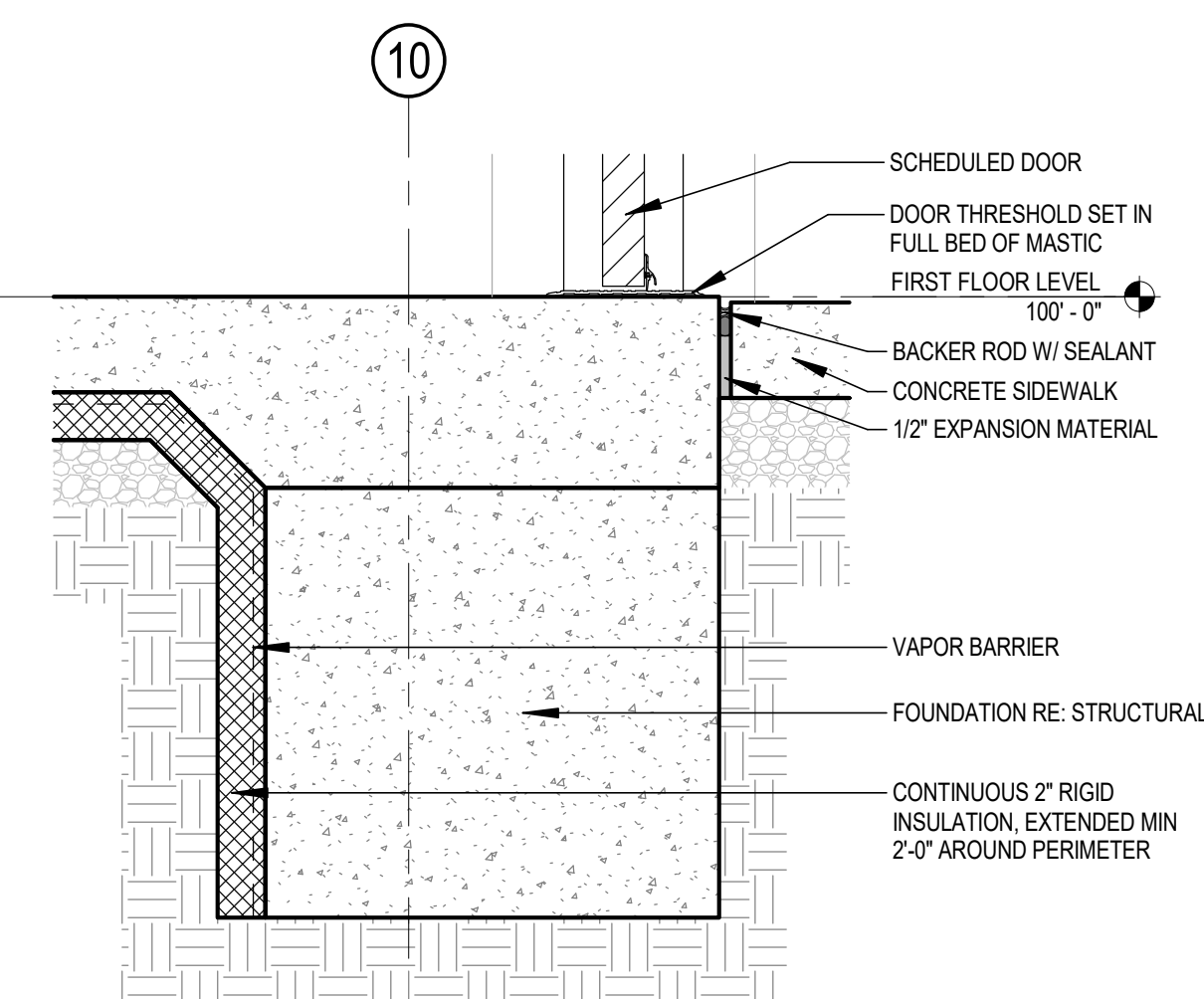
7 ROOF DETAIL
1 1/2" = 1'-0"



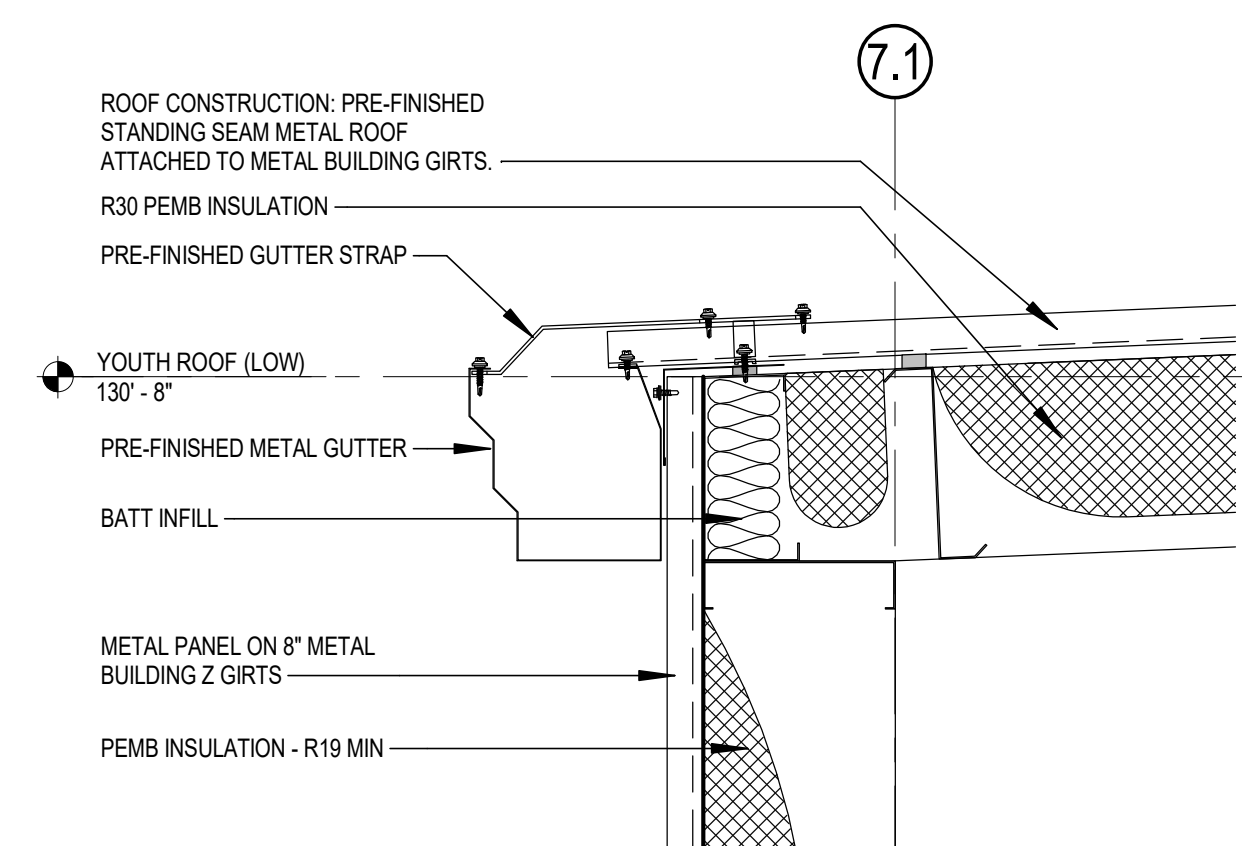
6 ROOF DETAIL
1 1/2" = 1'-0"



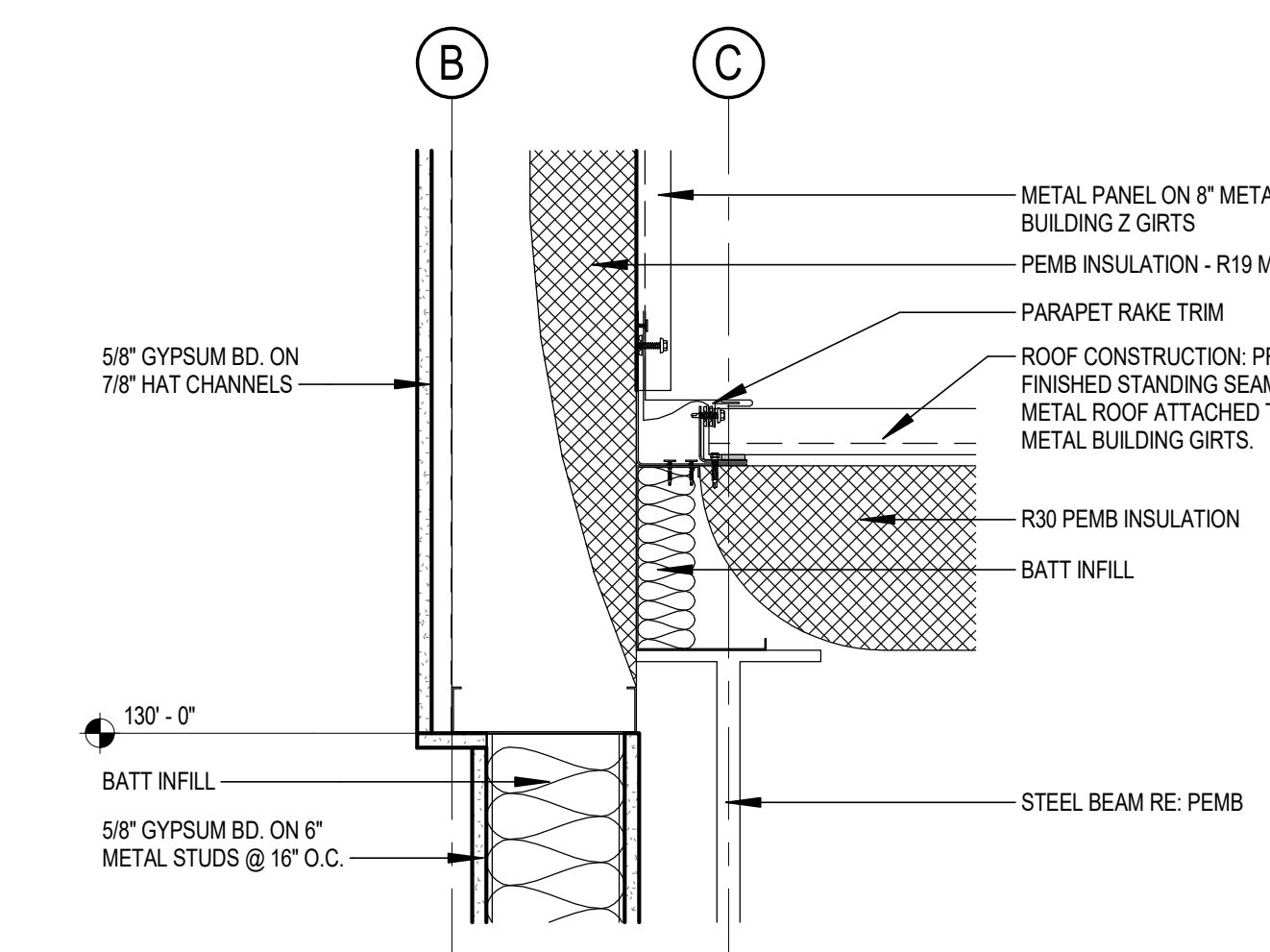
5 SECTION DETAIL
1 1/2" = 1'-0"



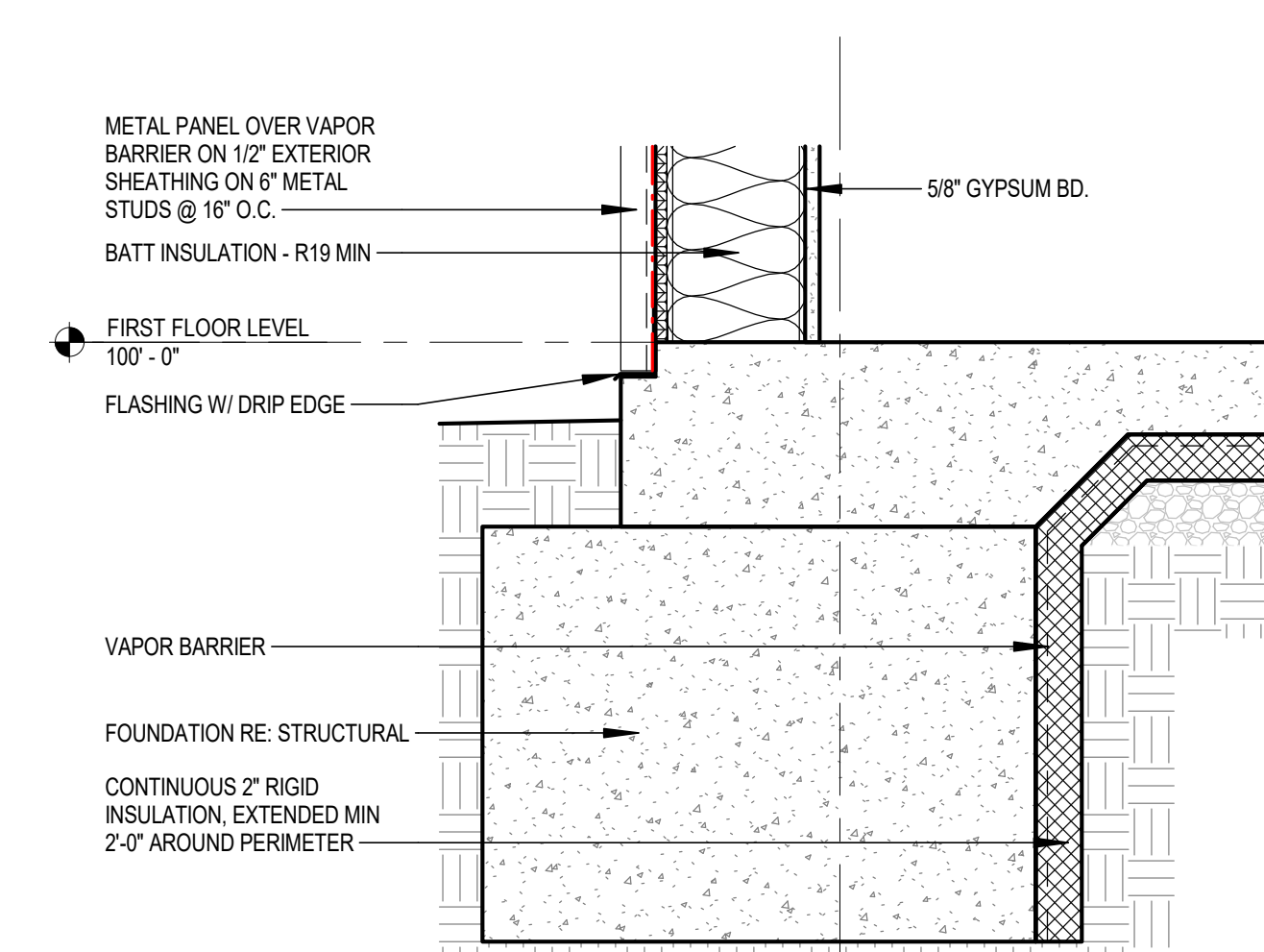
4 FOUNDATION DETAIL
1 1/2" = 1'-0"



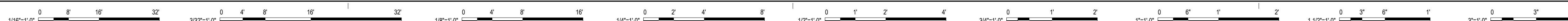
3 ROOF DETAIL
1 1/2" = 1'-0"



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



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



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DOCUMENTS
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**EVERGREEN BAPTIST
CHURCH - PHASE 5**

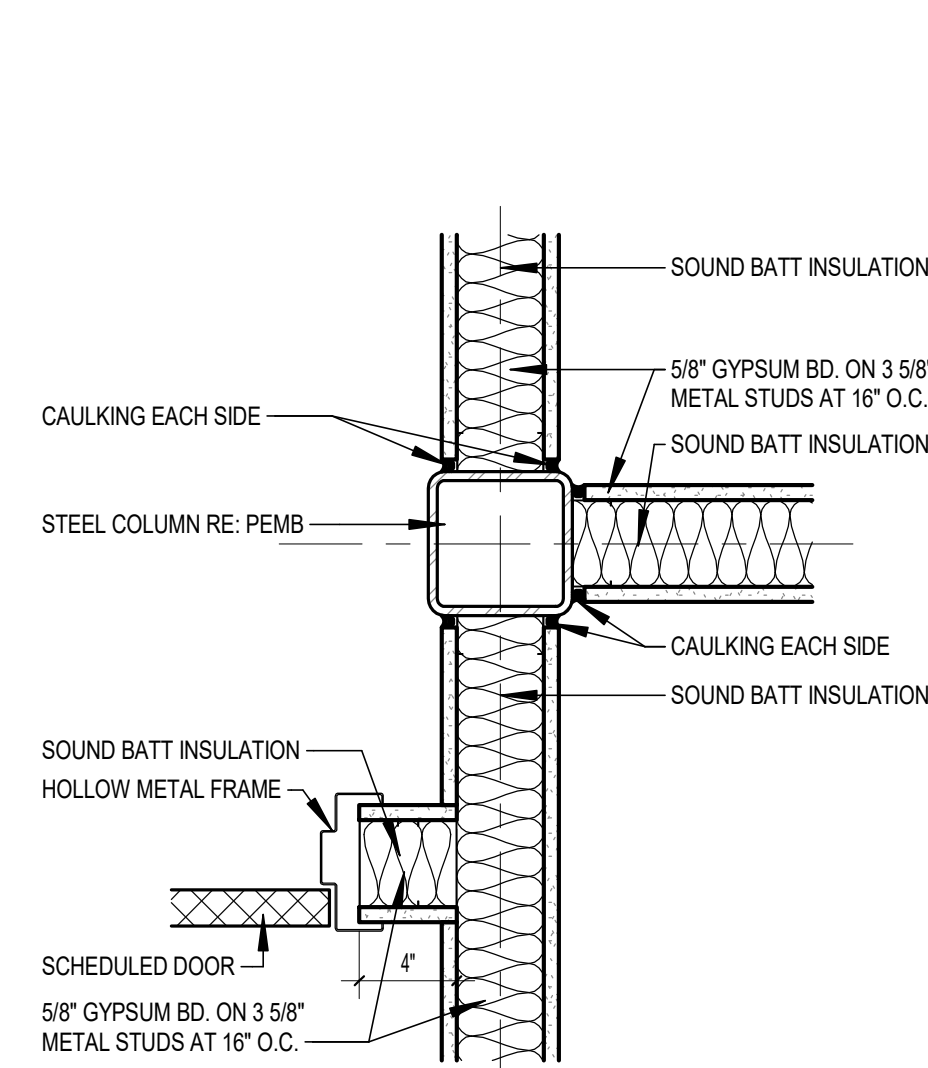
10301 EAST 111TH ST. S.
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1 04.09.2025 REV#2

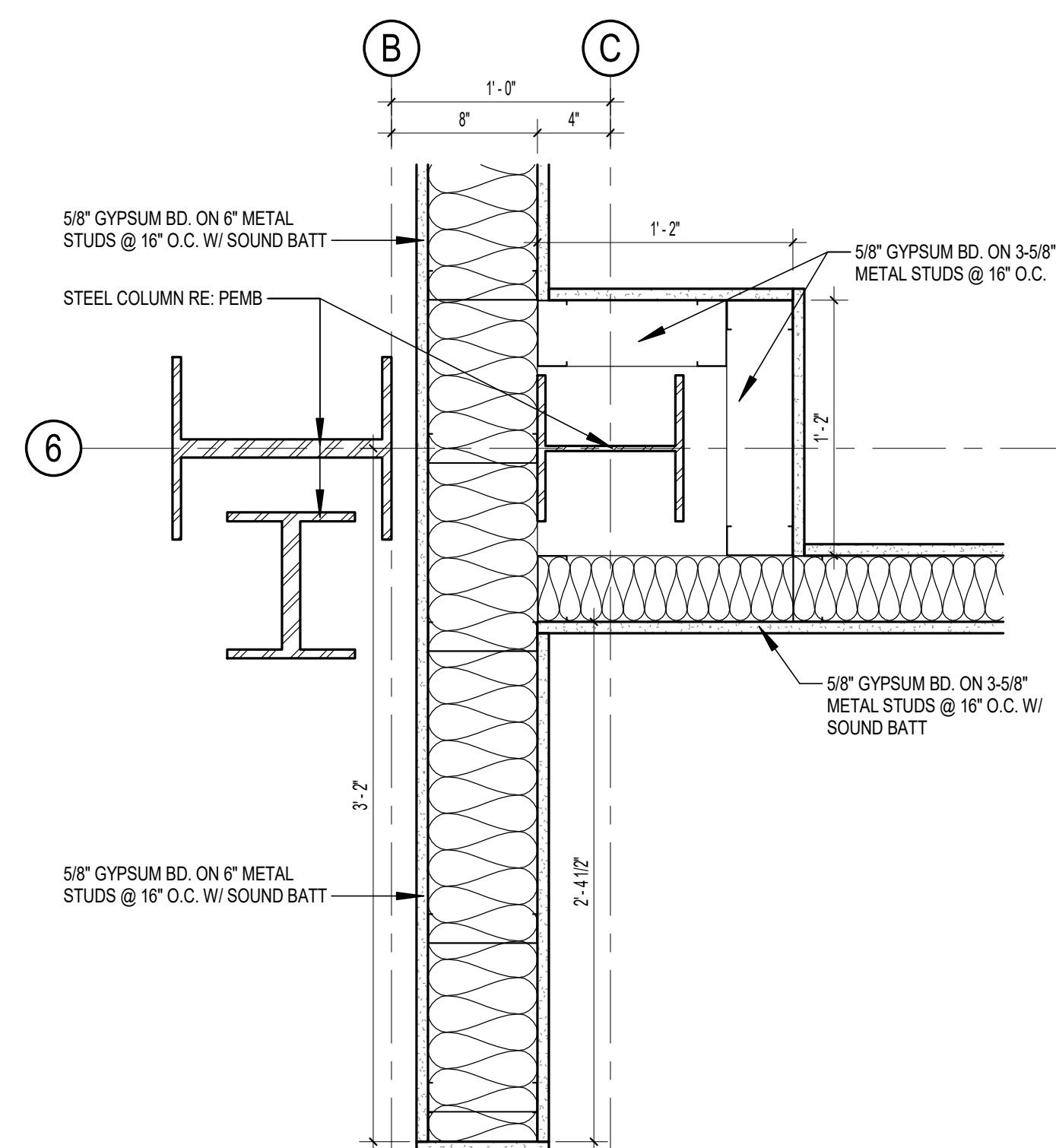
SECTION DETAILS

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CHKD BY: SE

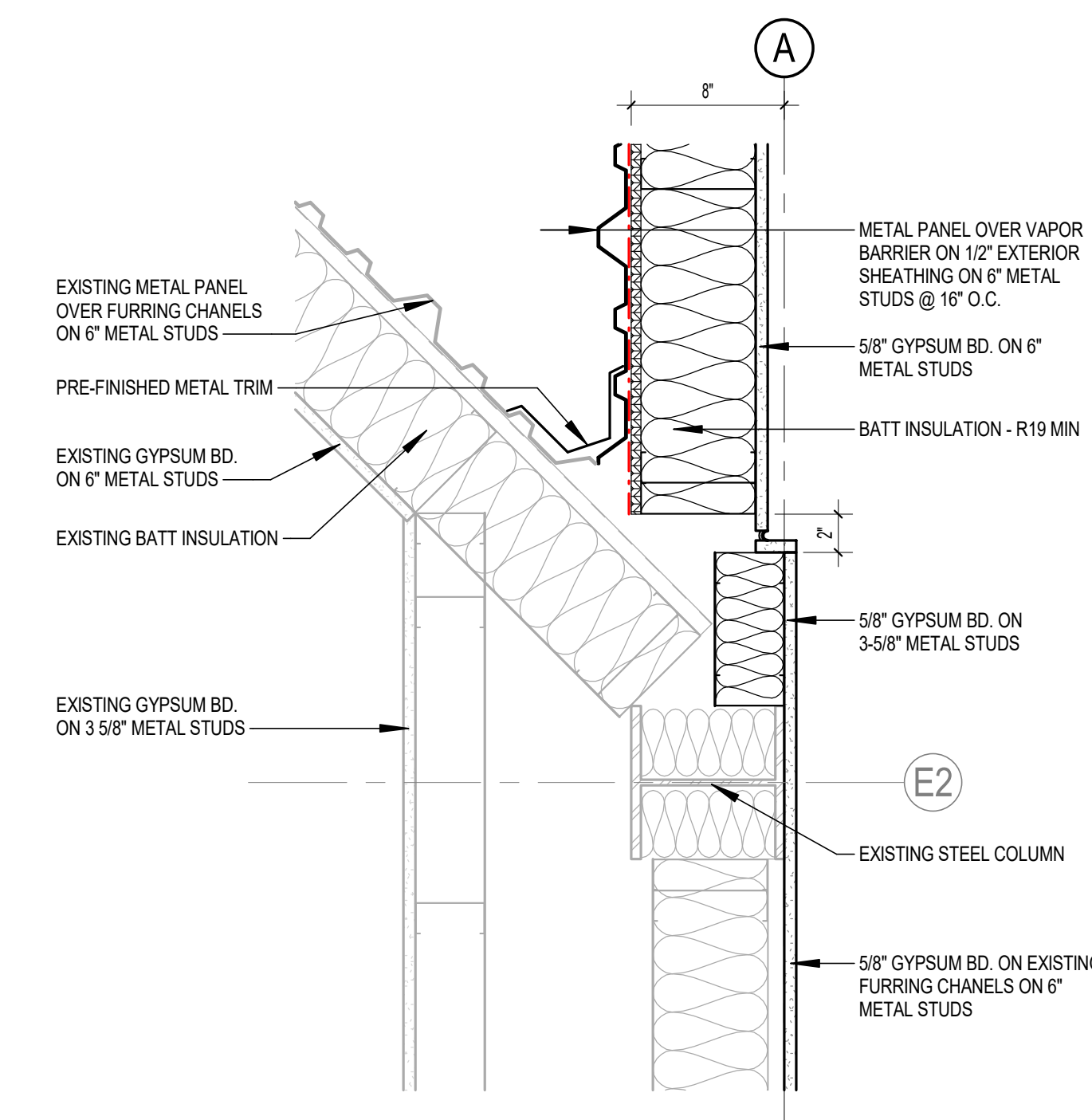
A501
SCALE 1 1/2" = 1'-0"



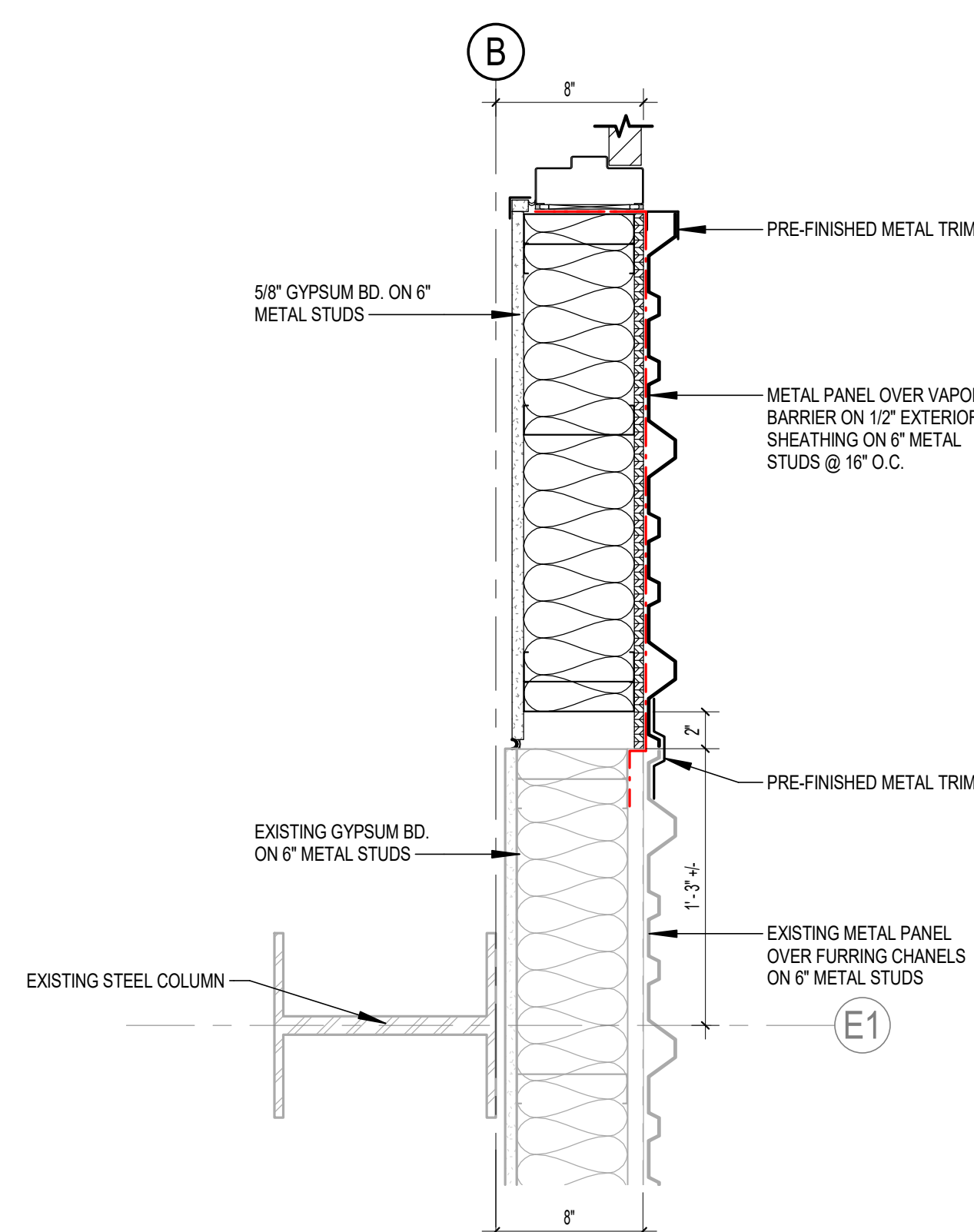
11 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



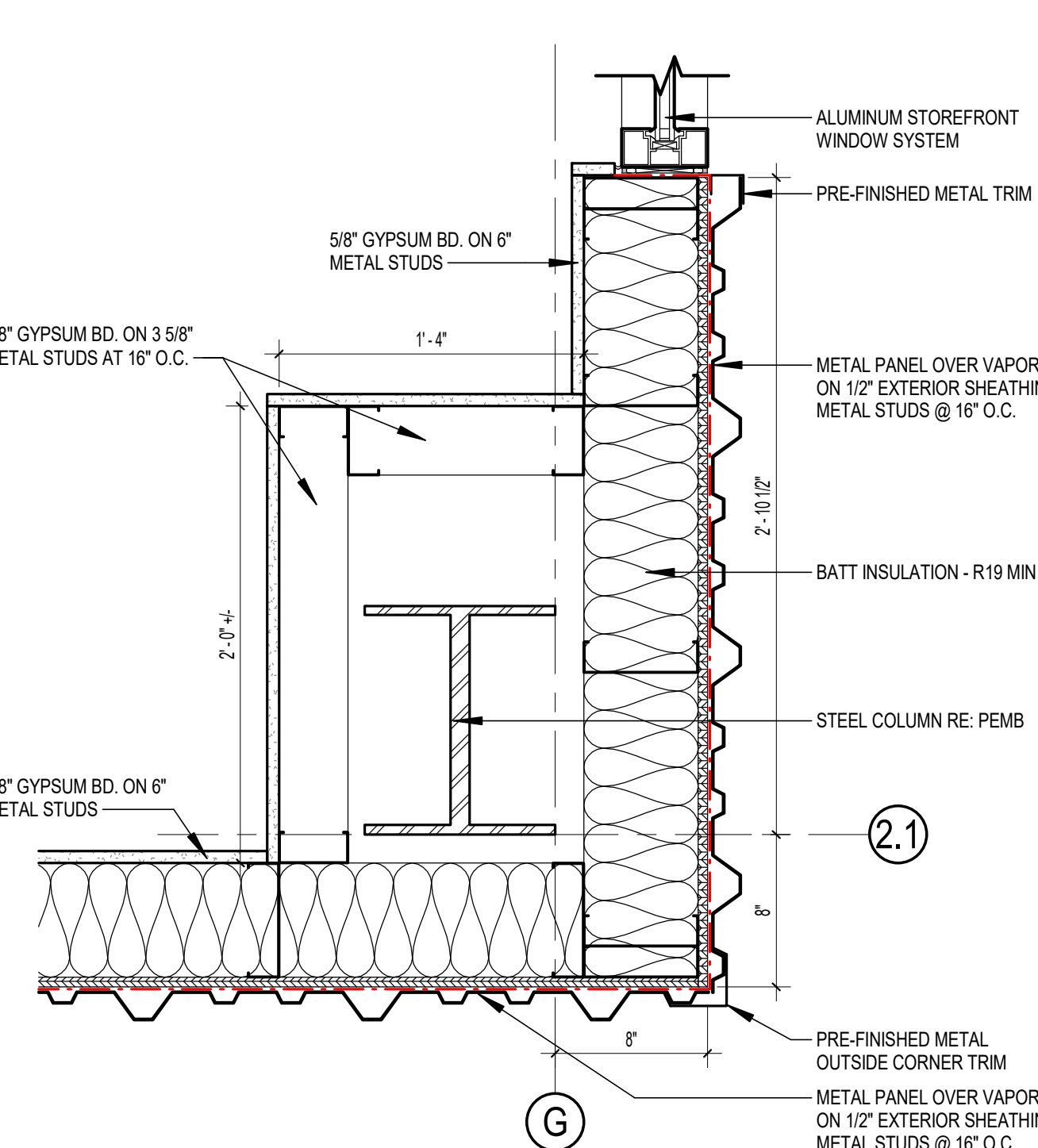
10 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



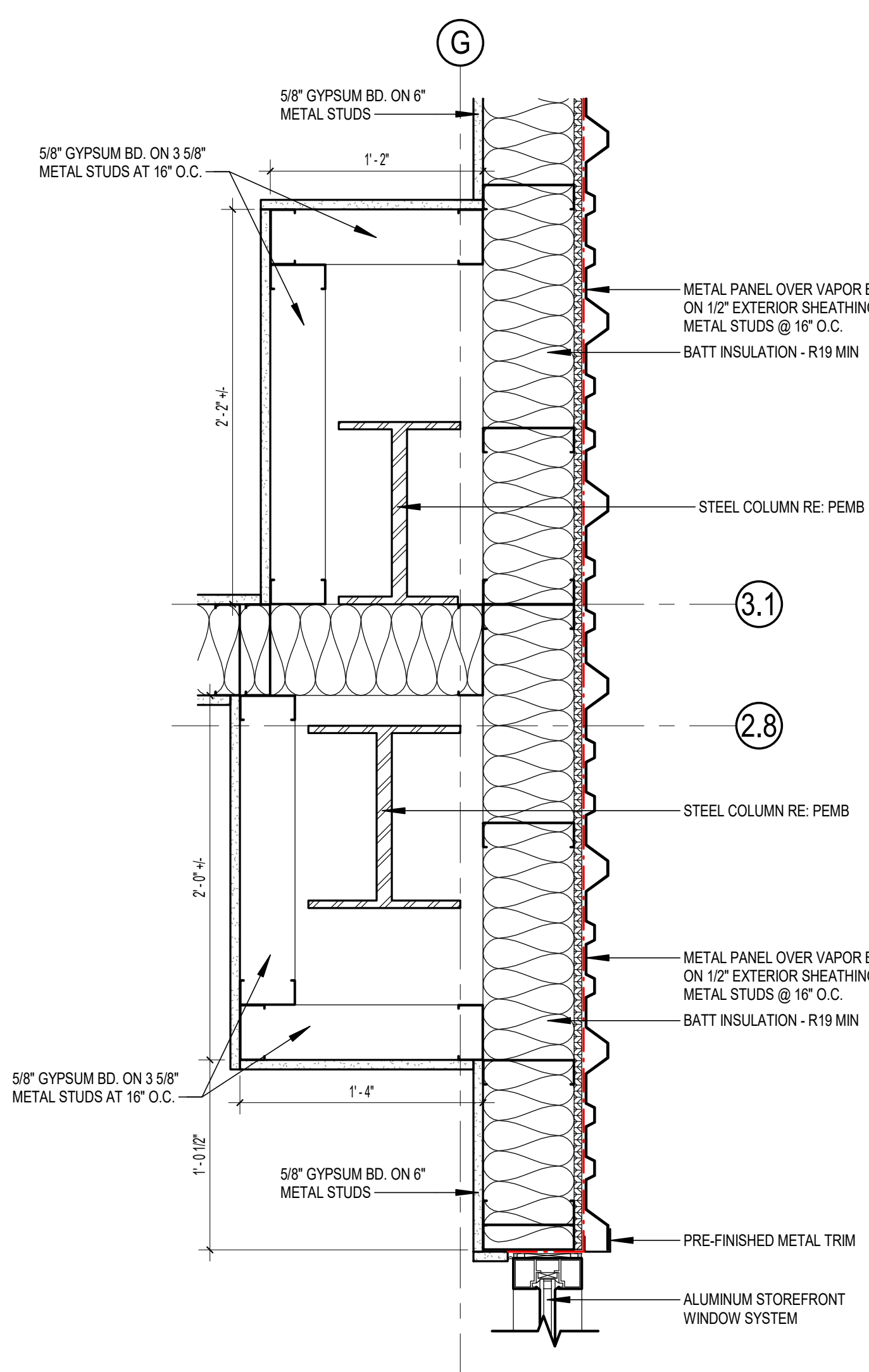
9 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



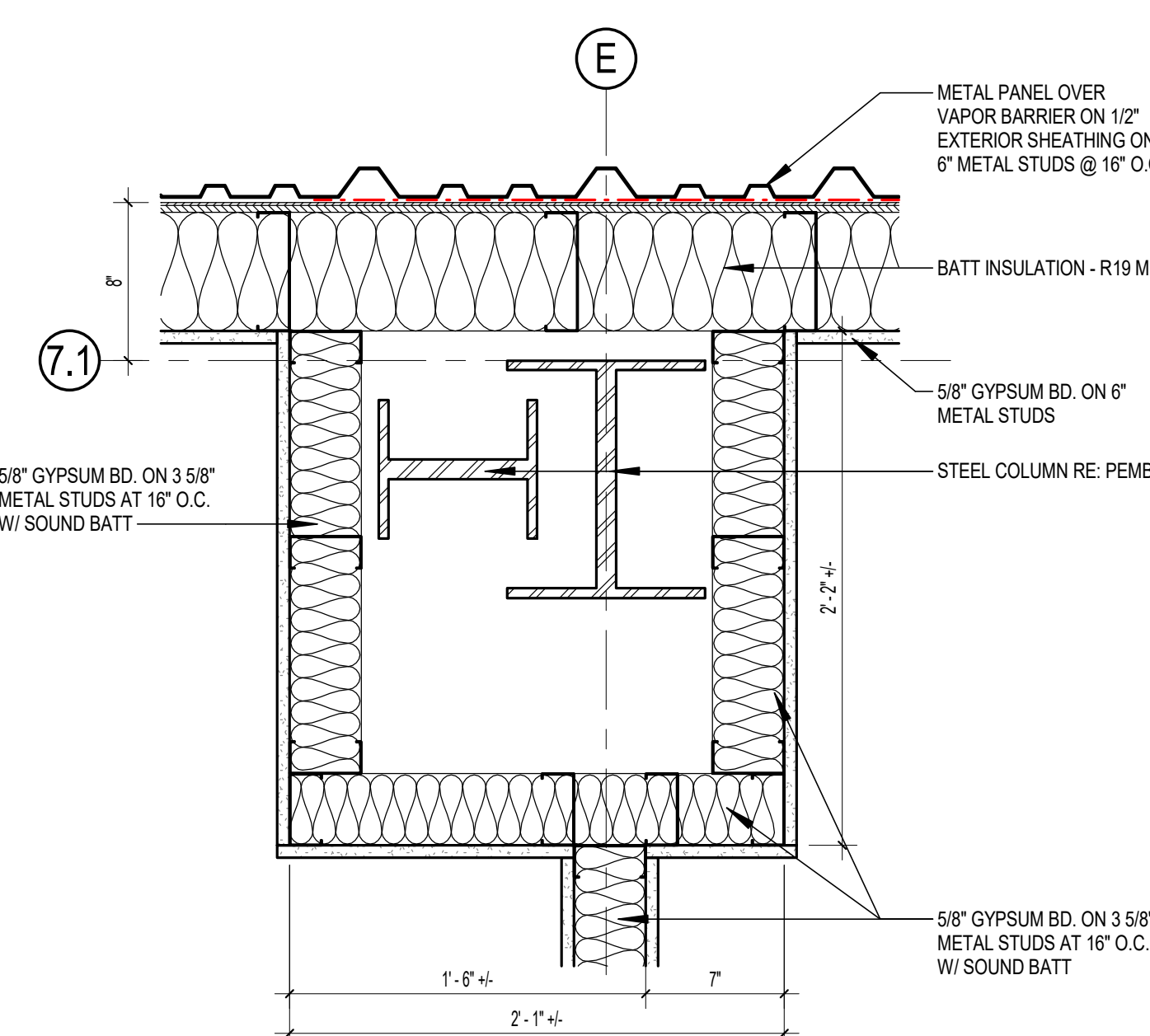
8 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



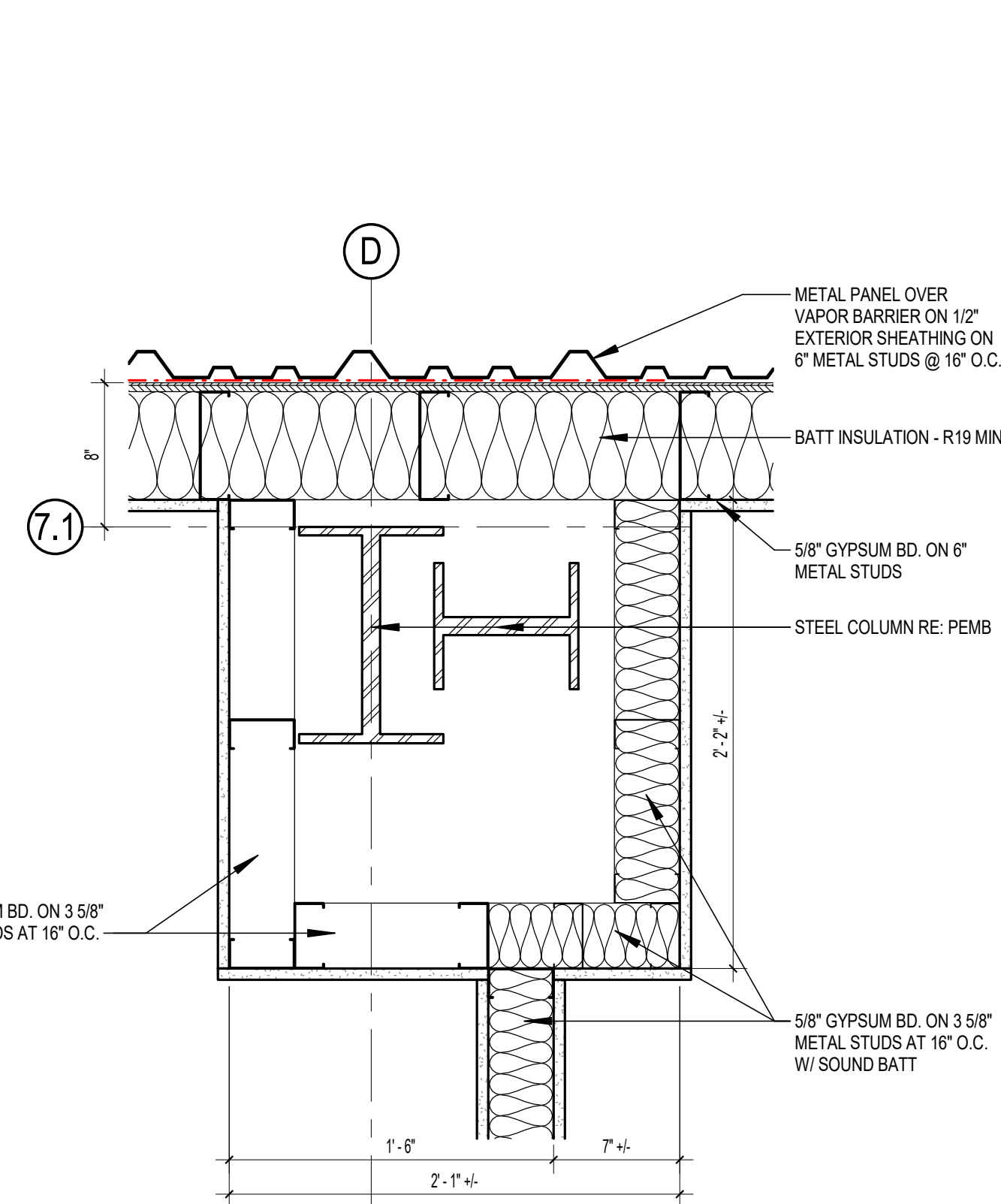
7 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



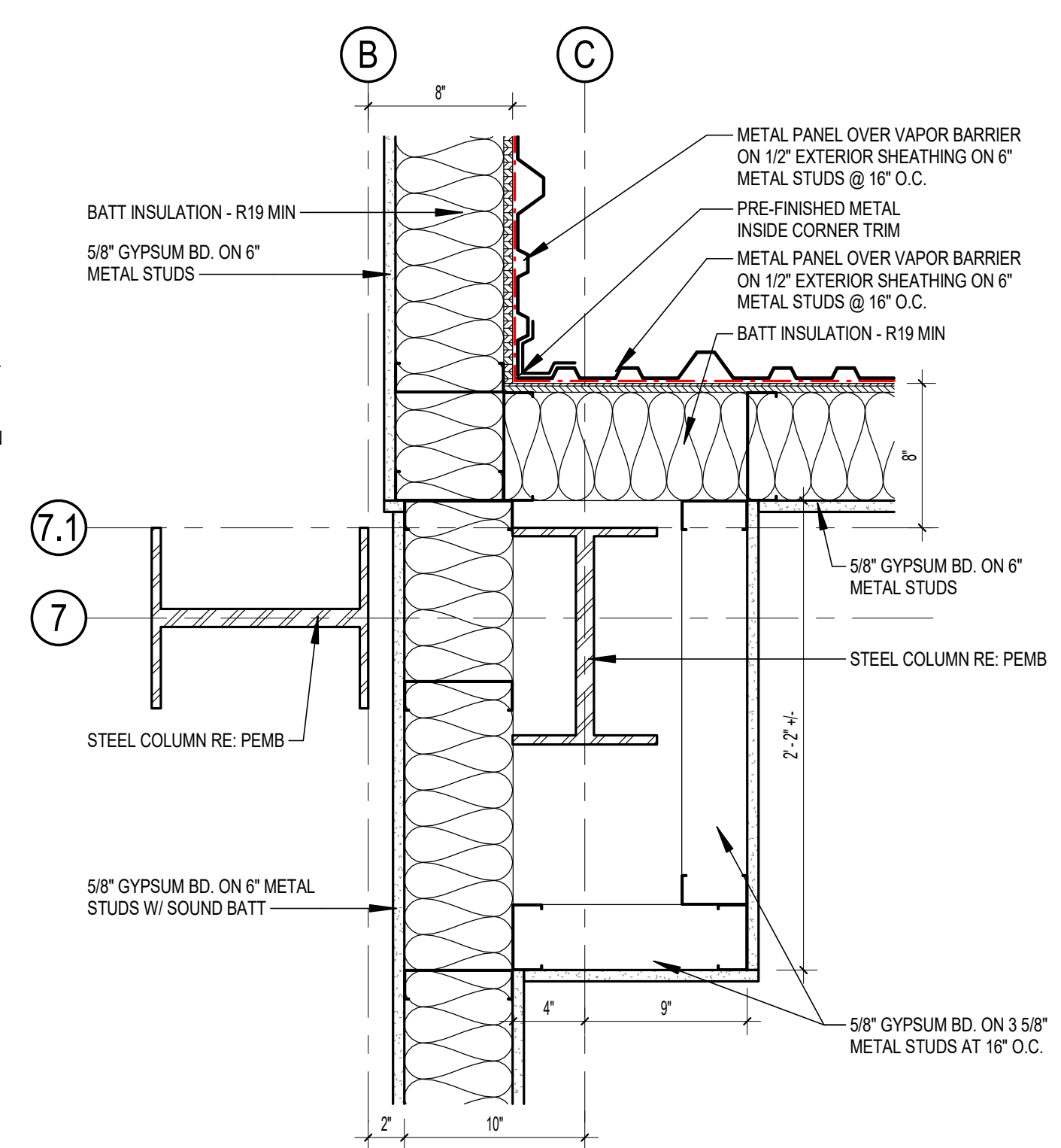
6 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



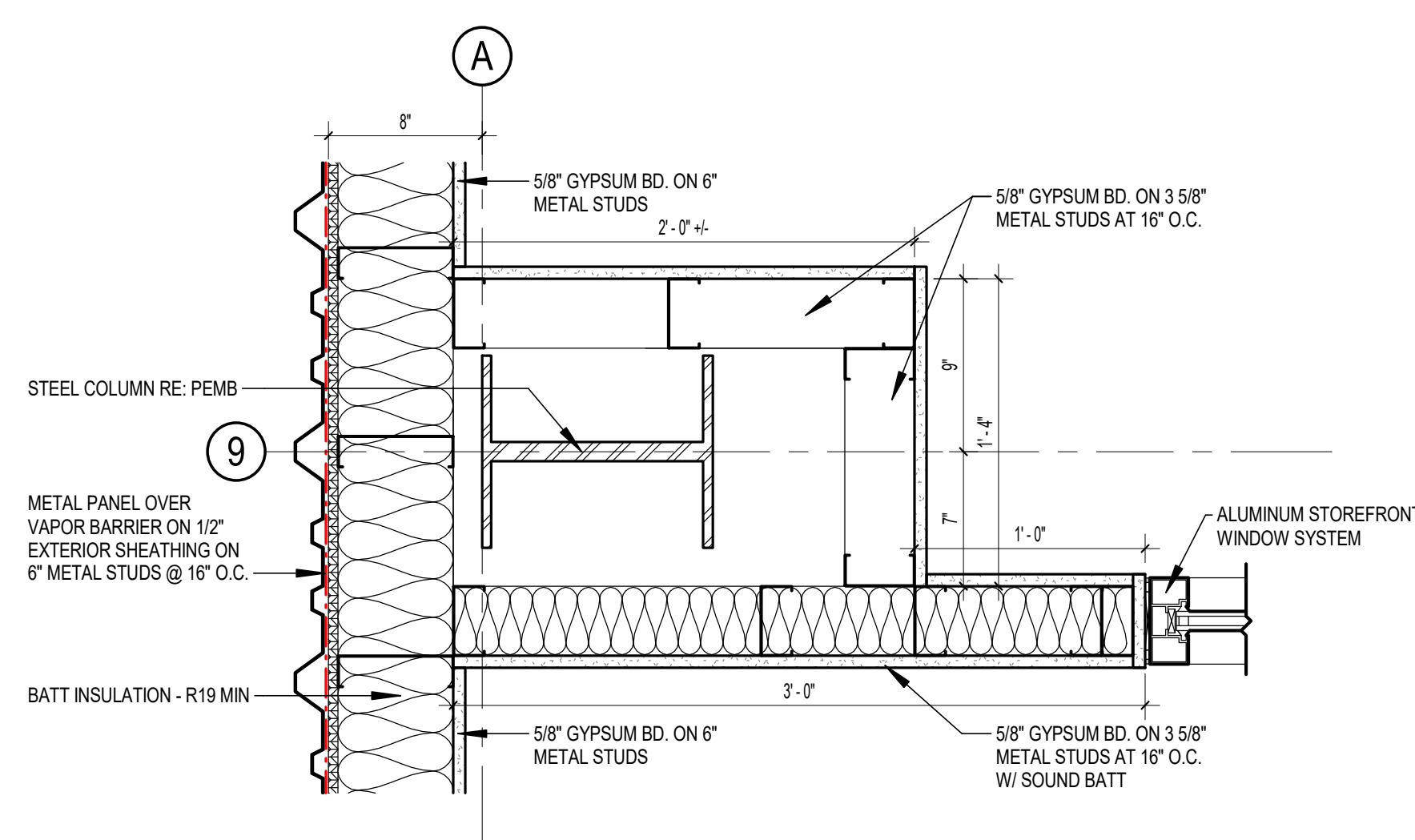
5 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



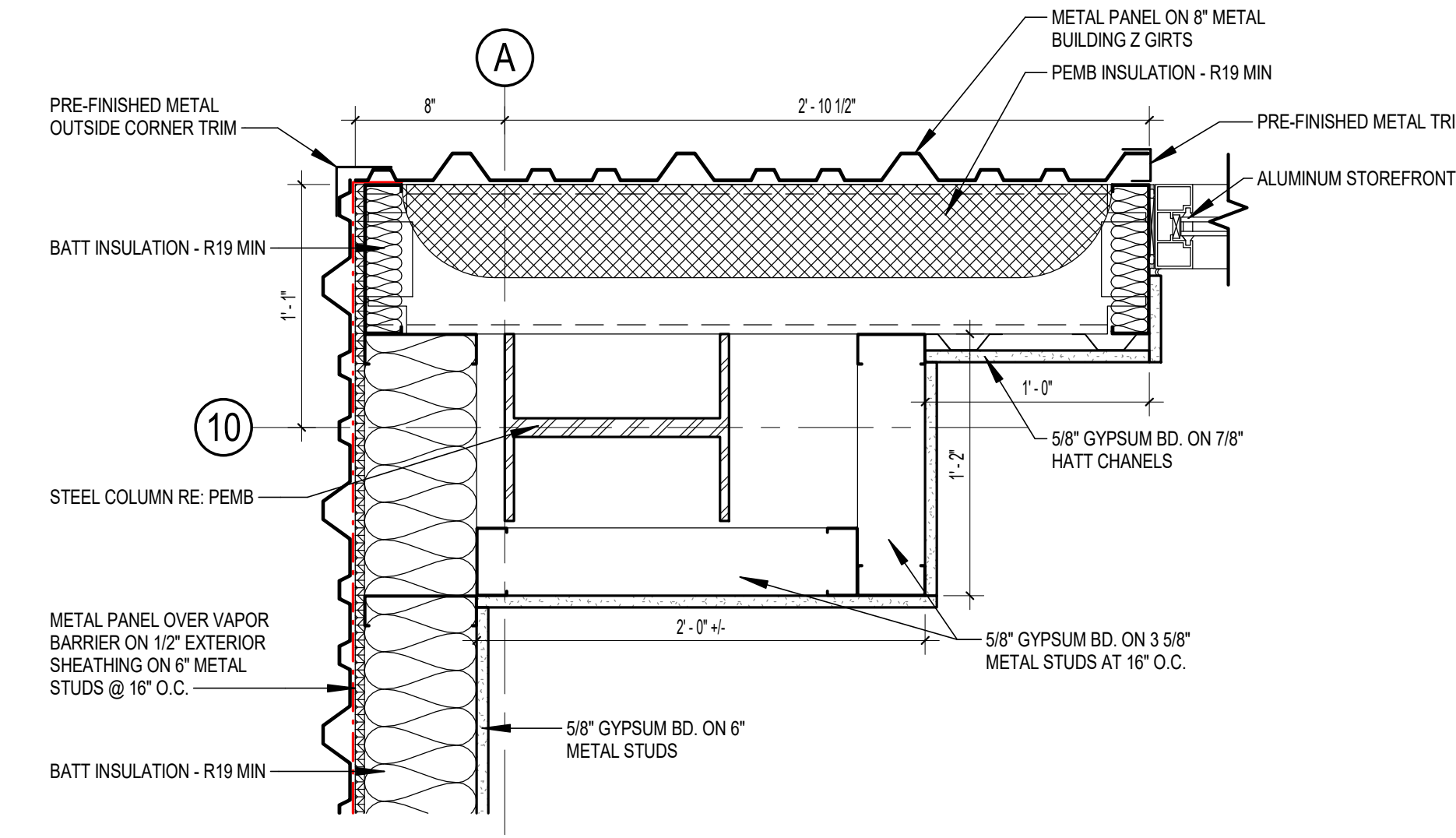
4 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



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



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



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

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DOCUMENTS
03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 11TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

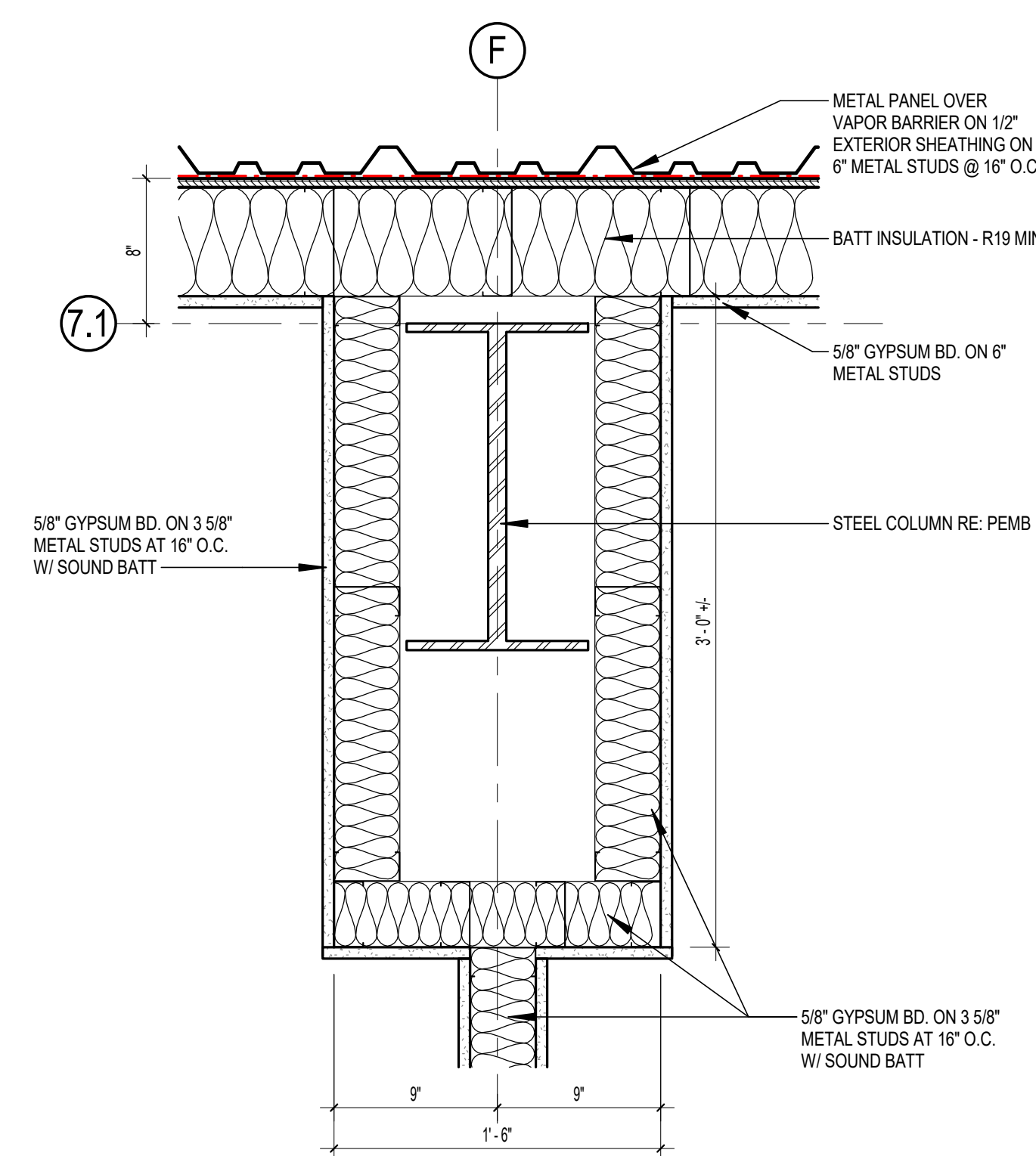
REVISIONS

PLAN DETAILS

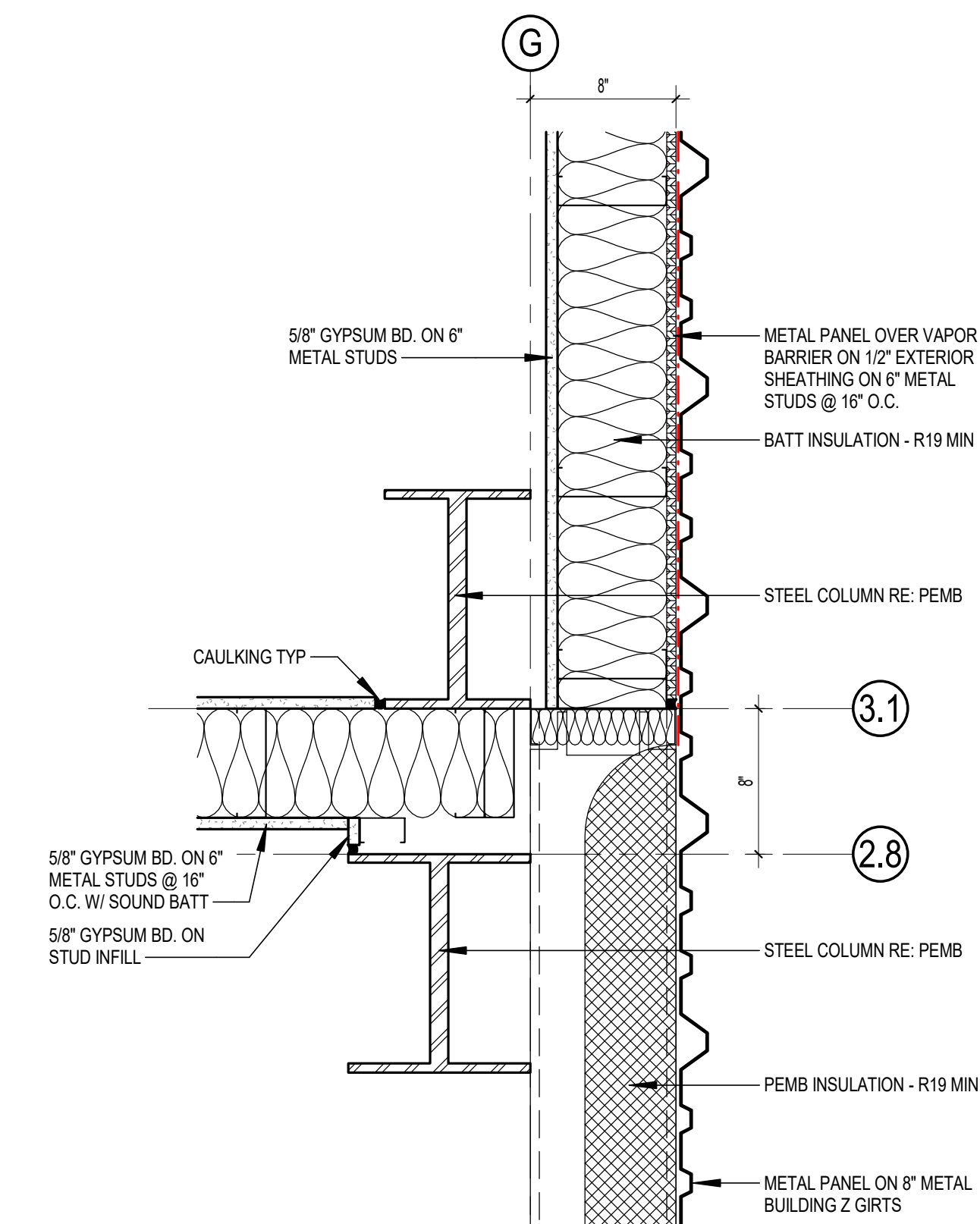
JOB: 2023.14
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CHKD BY: SE

A511

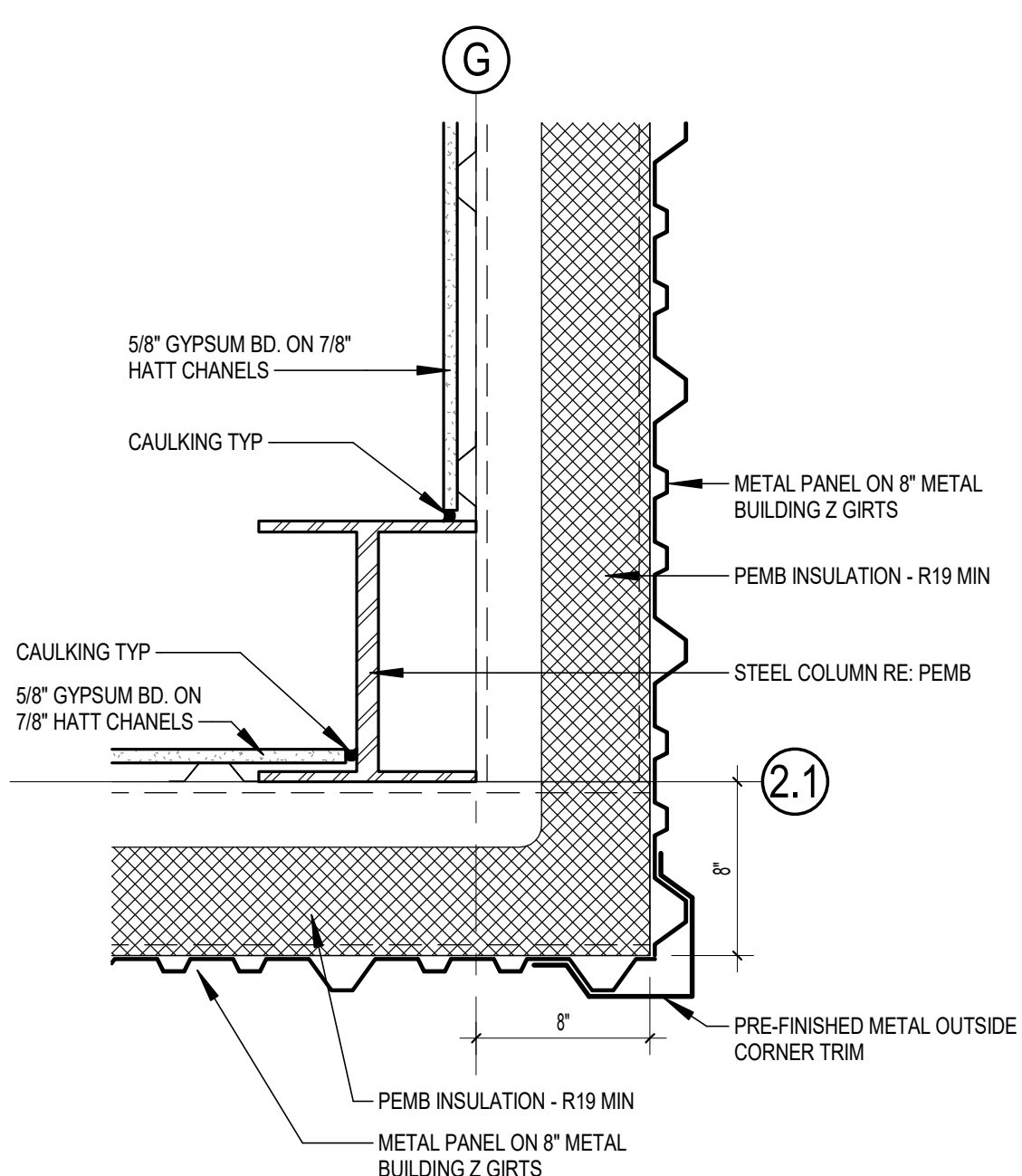
SCALE: 1 1/2" = 1'-0"



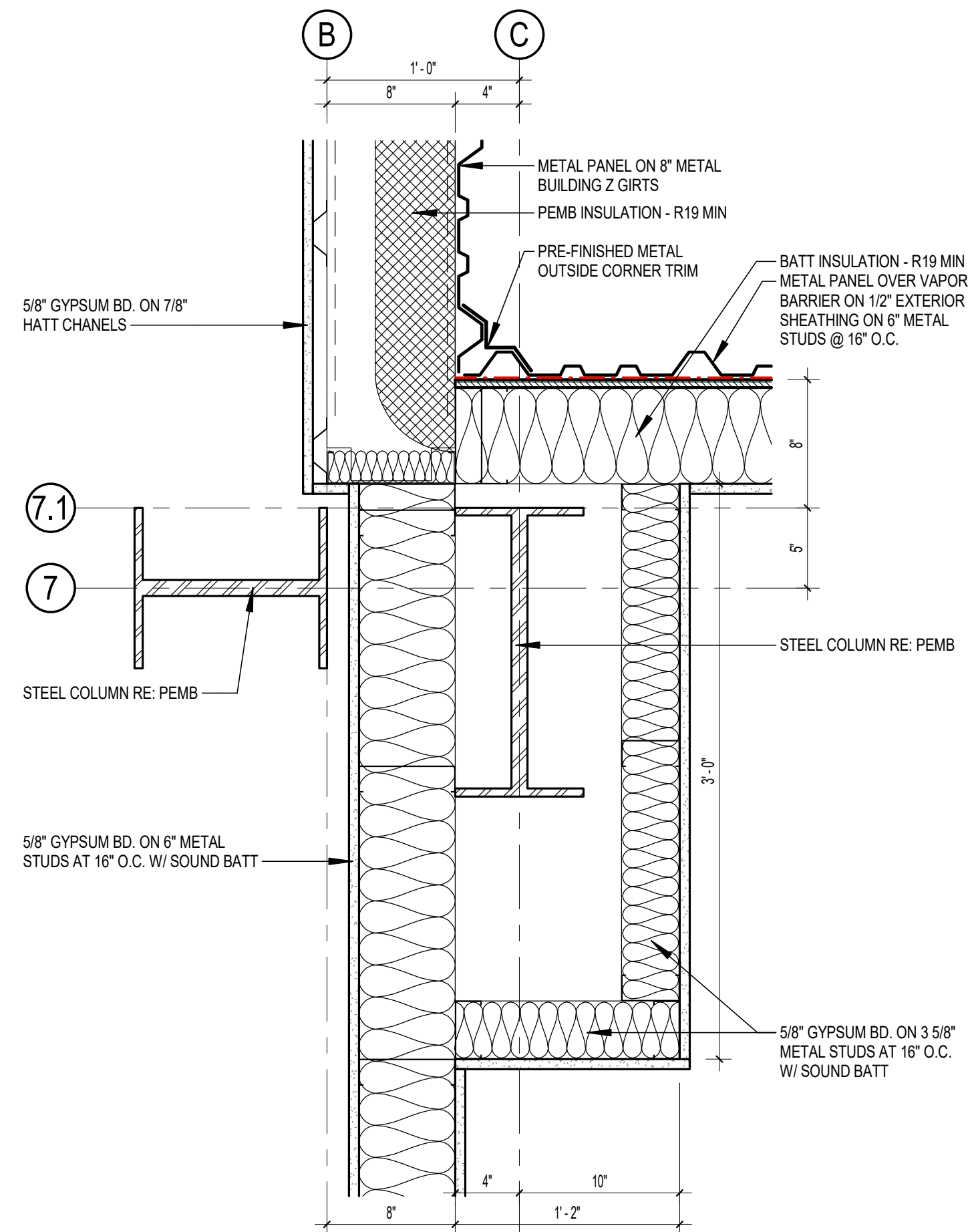
9 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



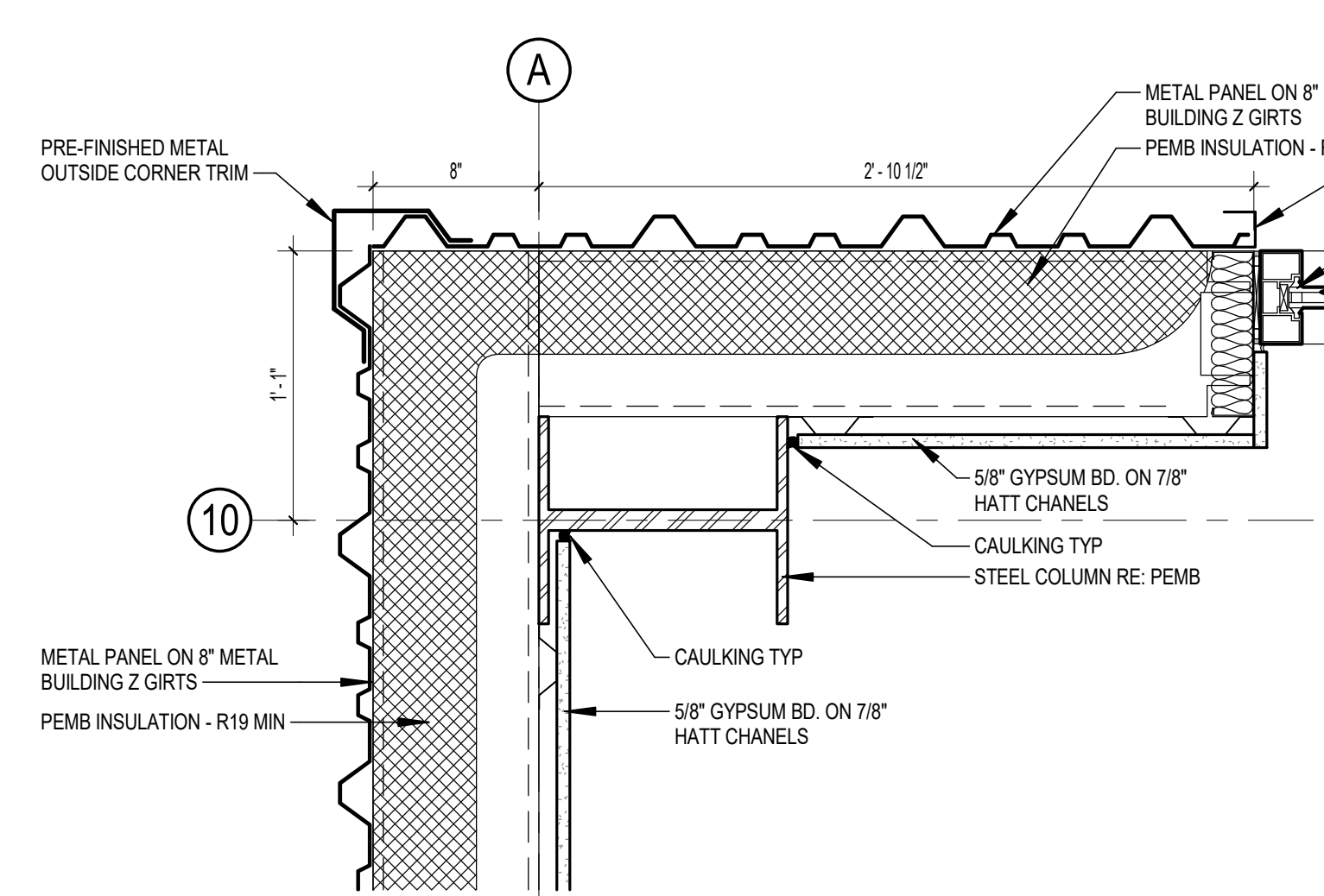
10 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



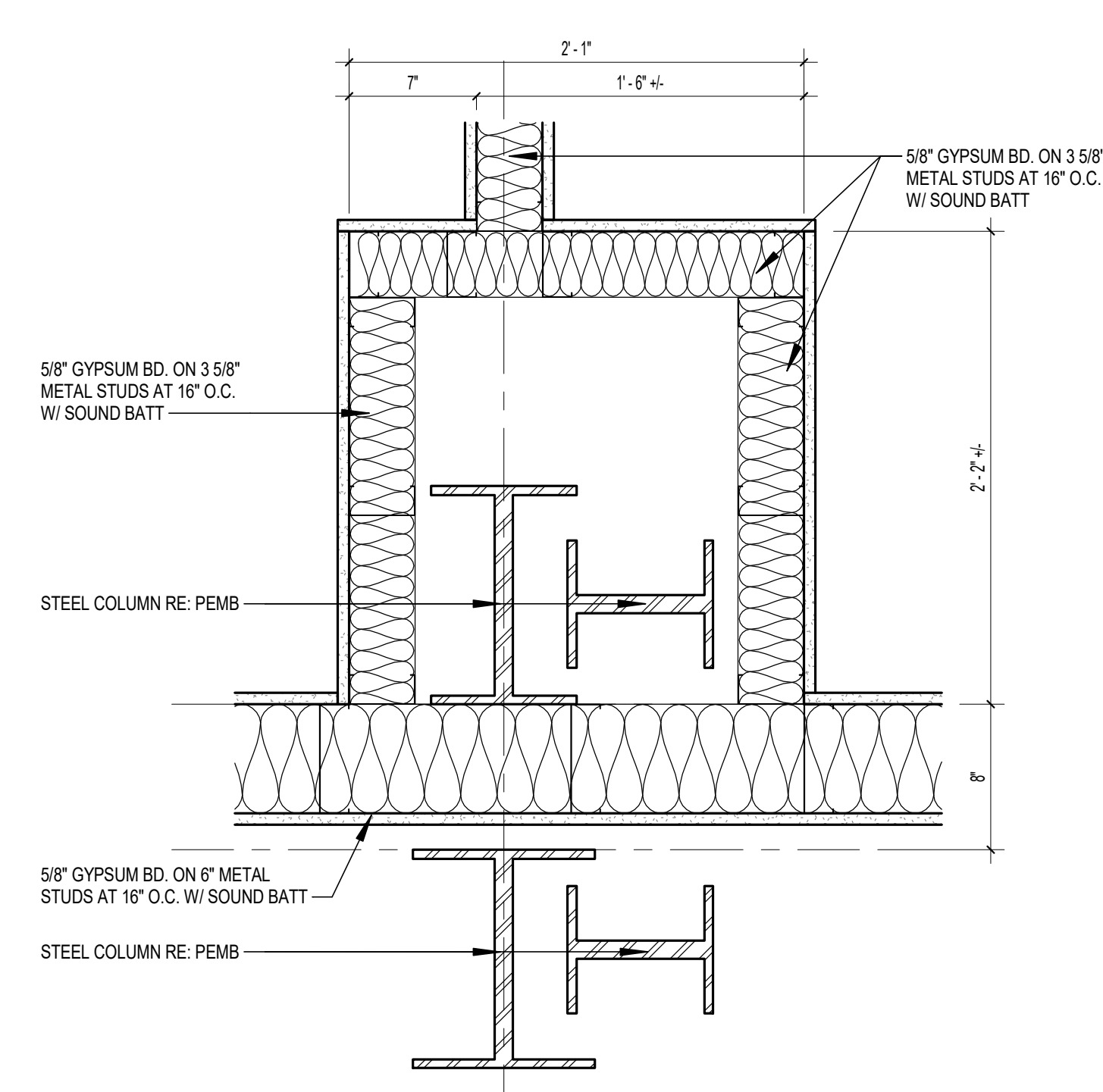
11 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



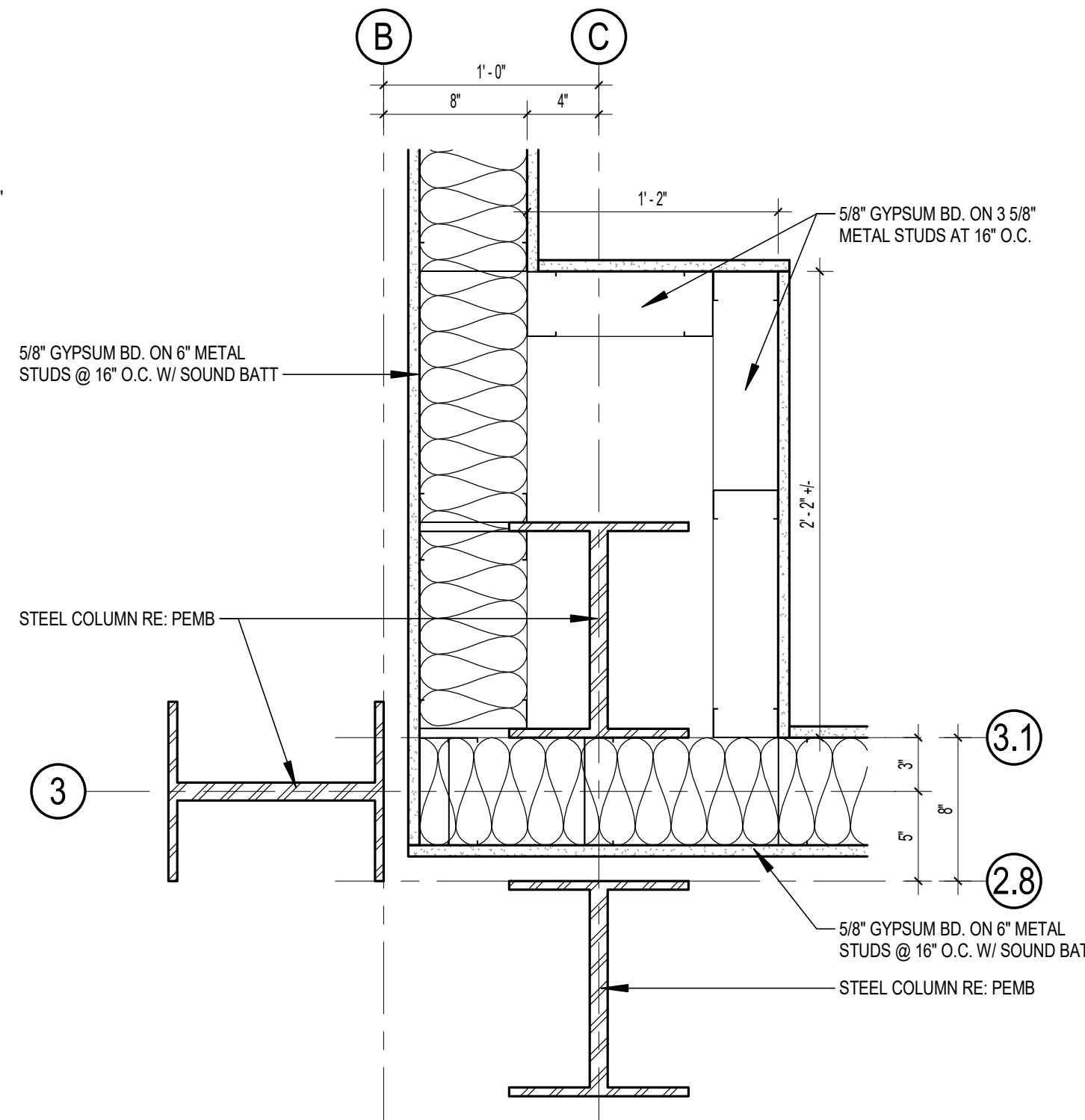
8 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



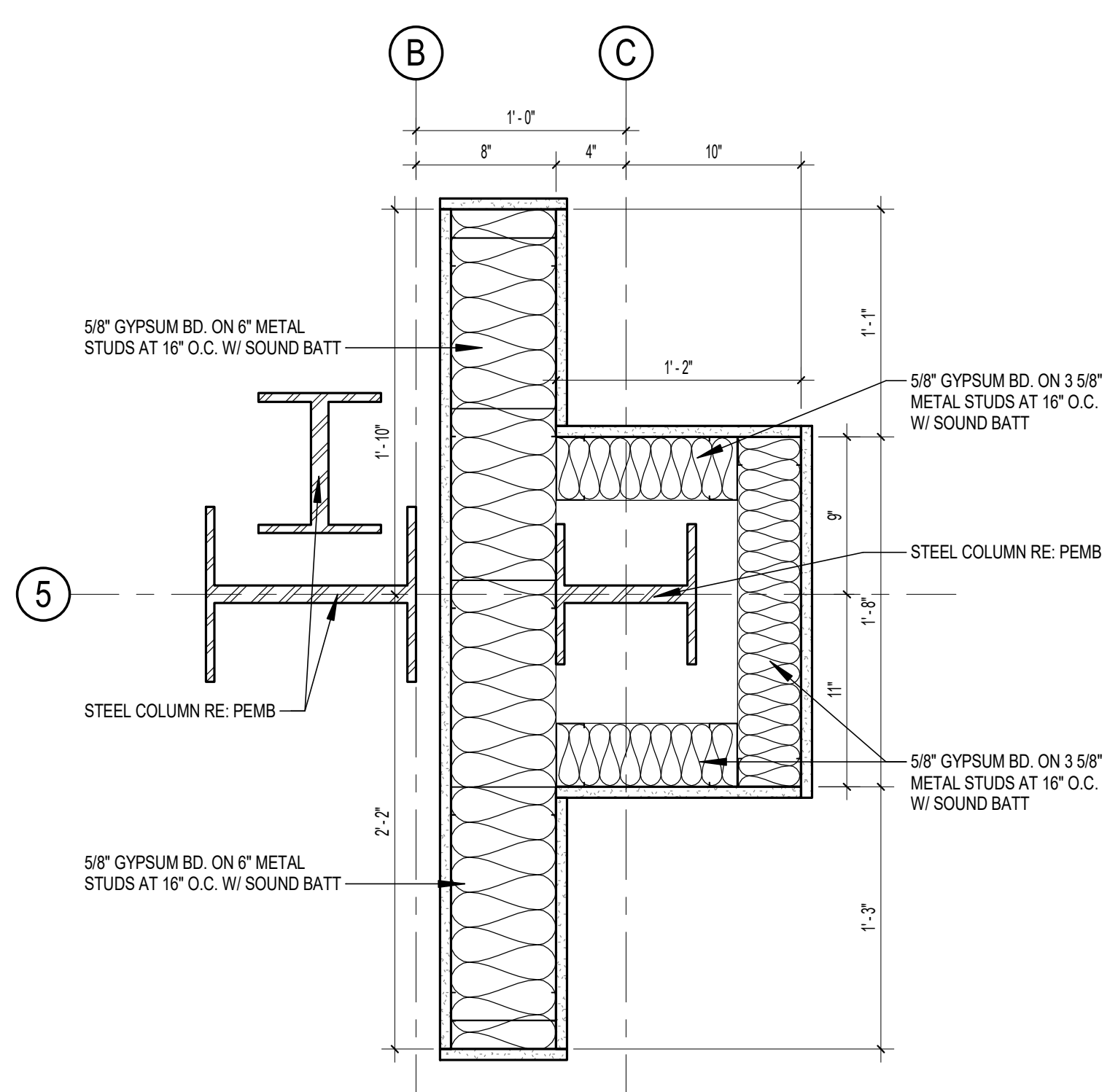
7 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



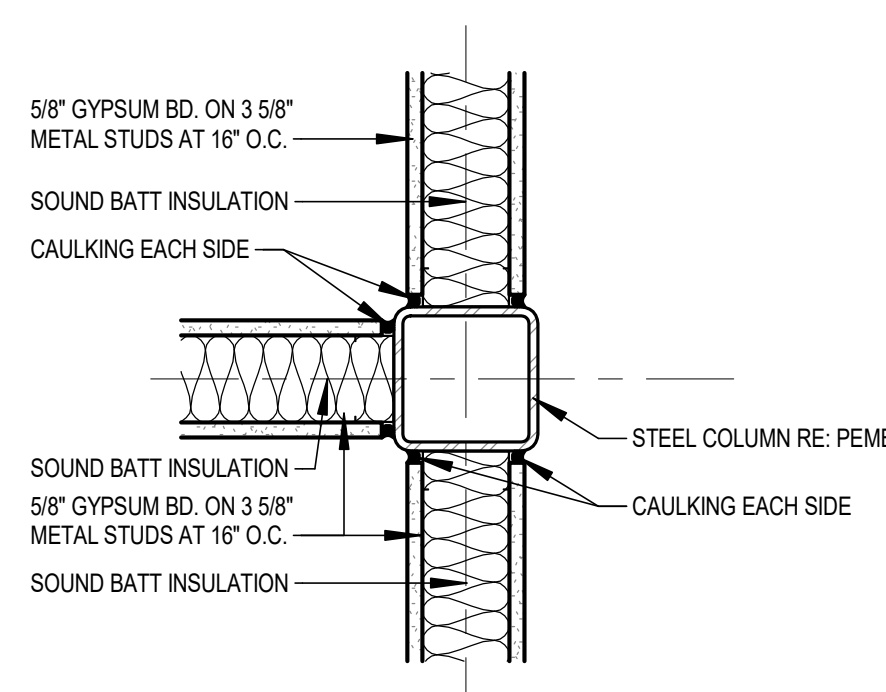
6 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



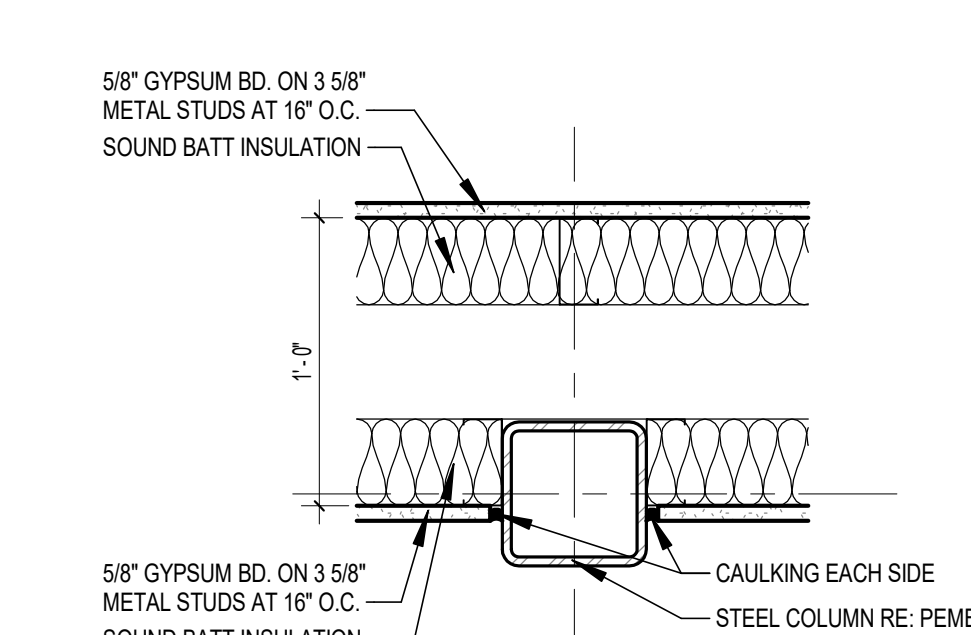
5 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



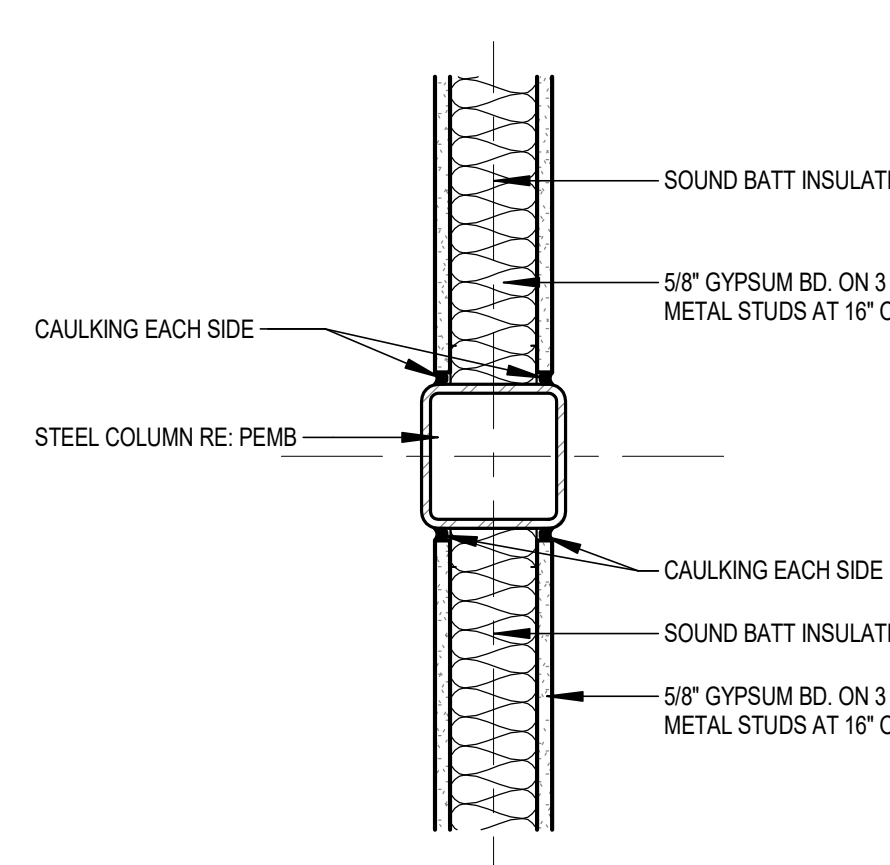
4 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



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



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



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

**EVERGREEN BAPTIST
CHURCH - PHASE 5**

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

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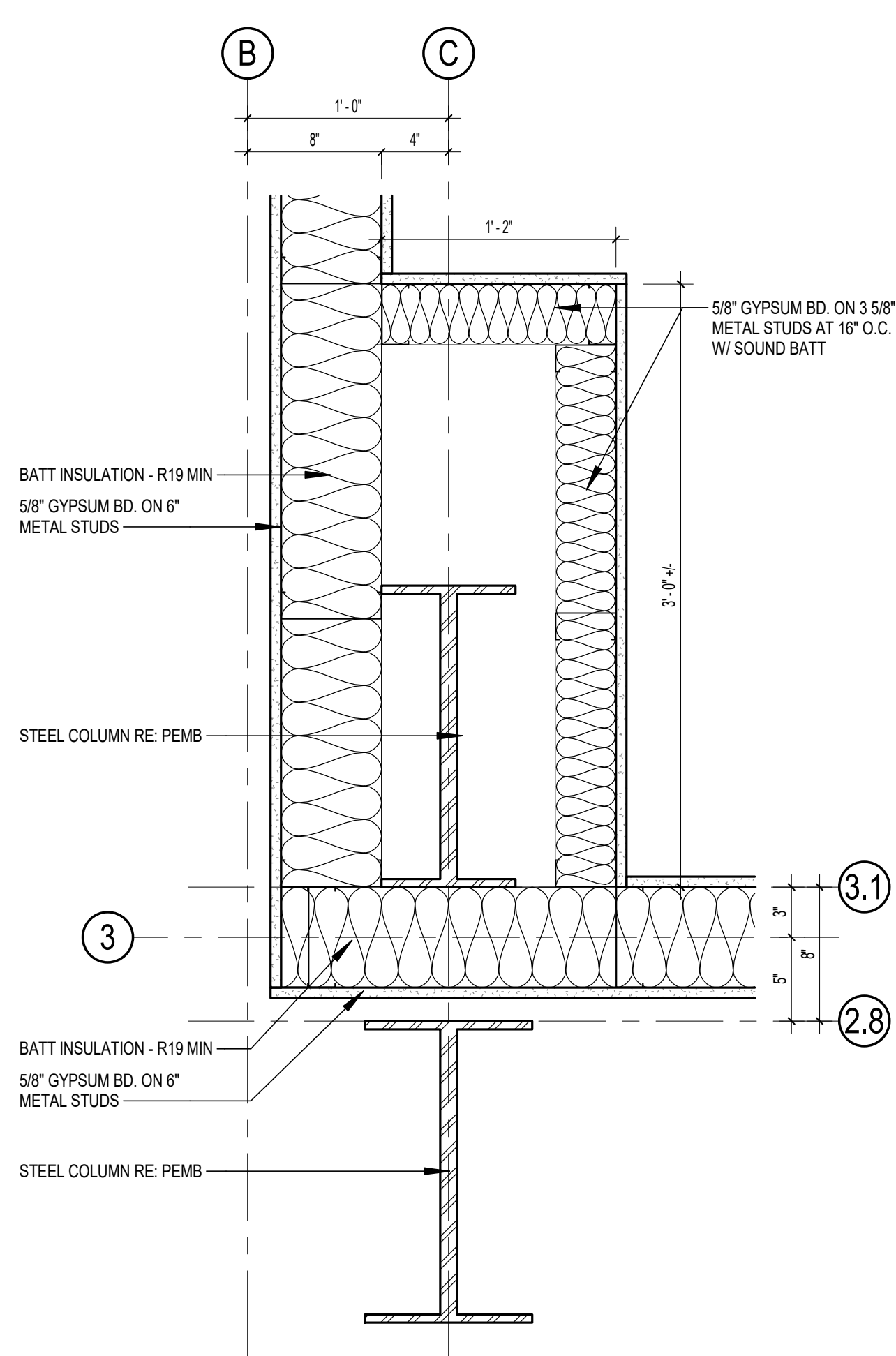
PLAN DETAILS

JOB: 2023.14
ISSUE: 03.03.2025
DRAWN BY: BG
CHKD BY: SE

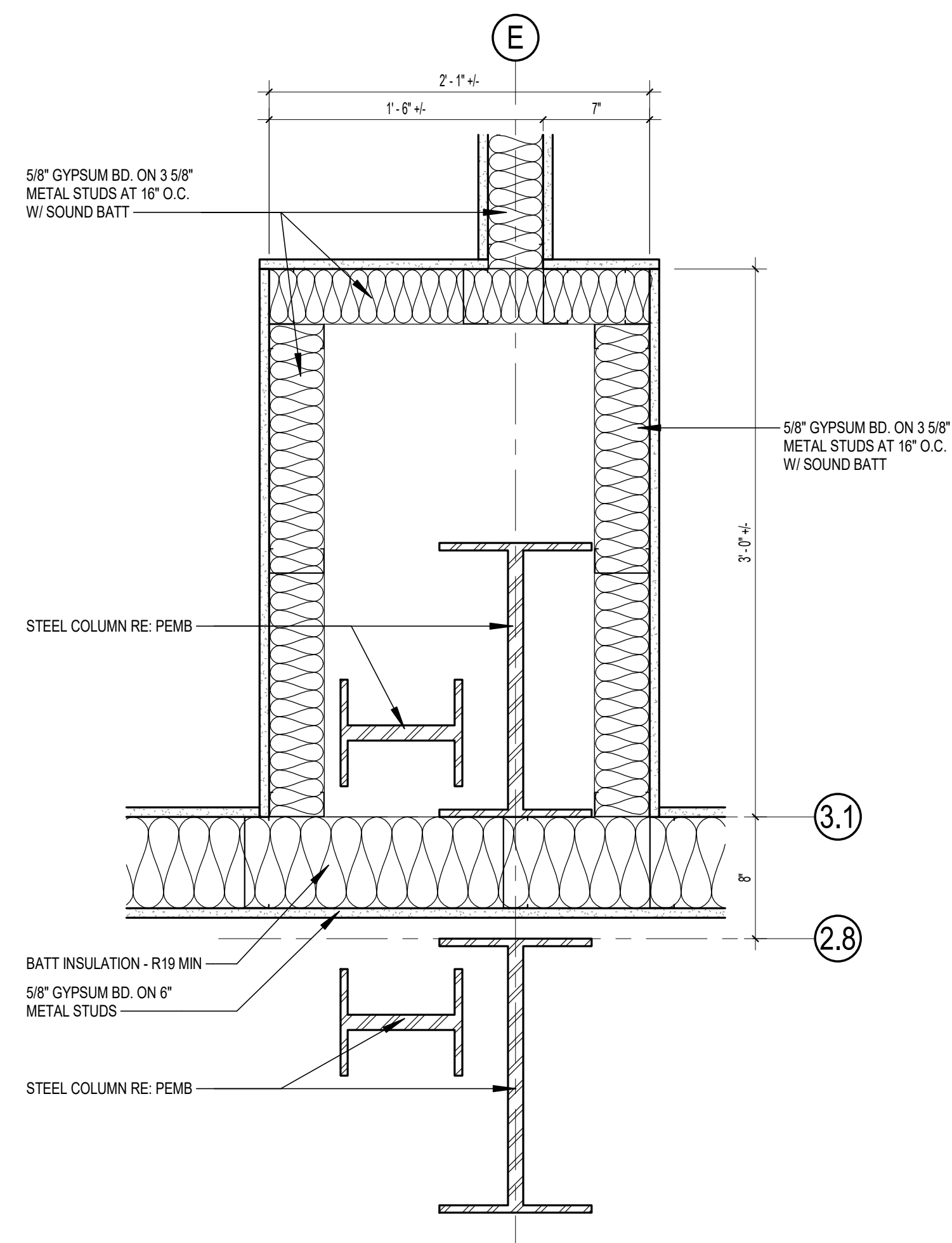
A513

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

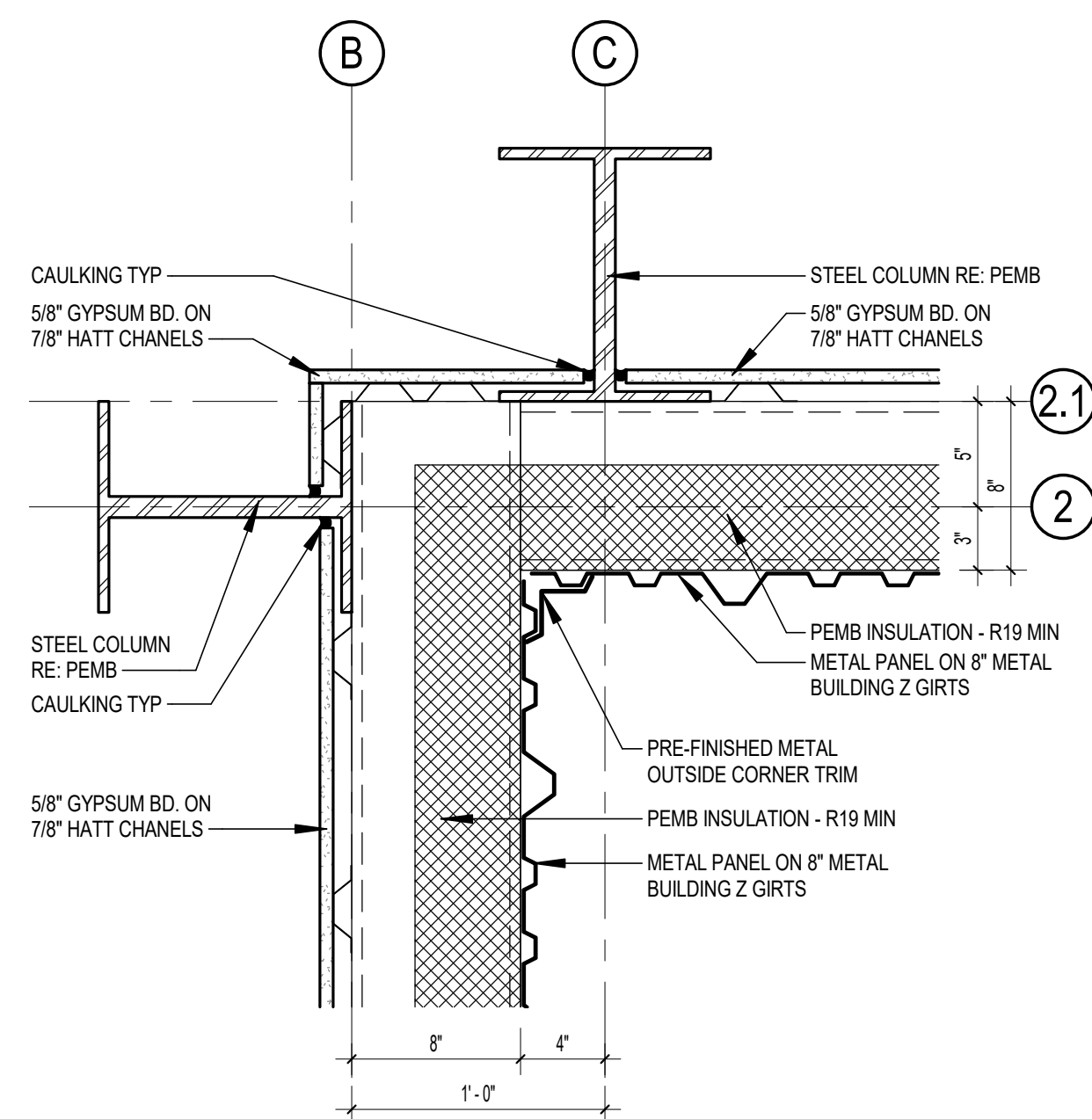
3/3/2025



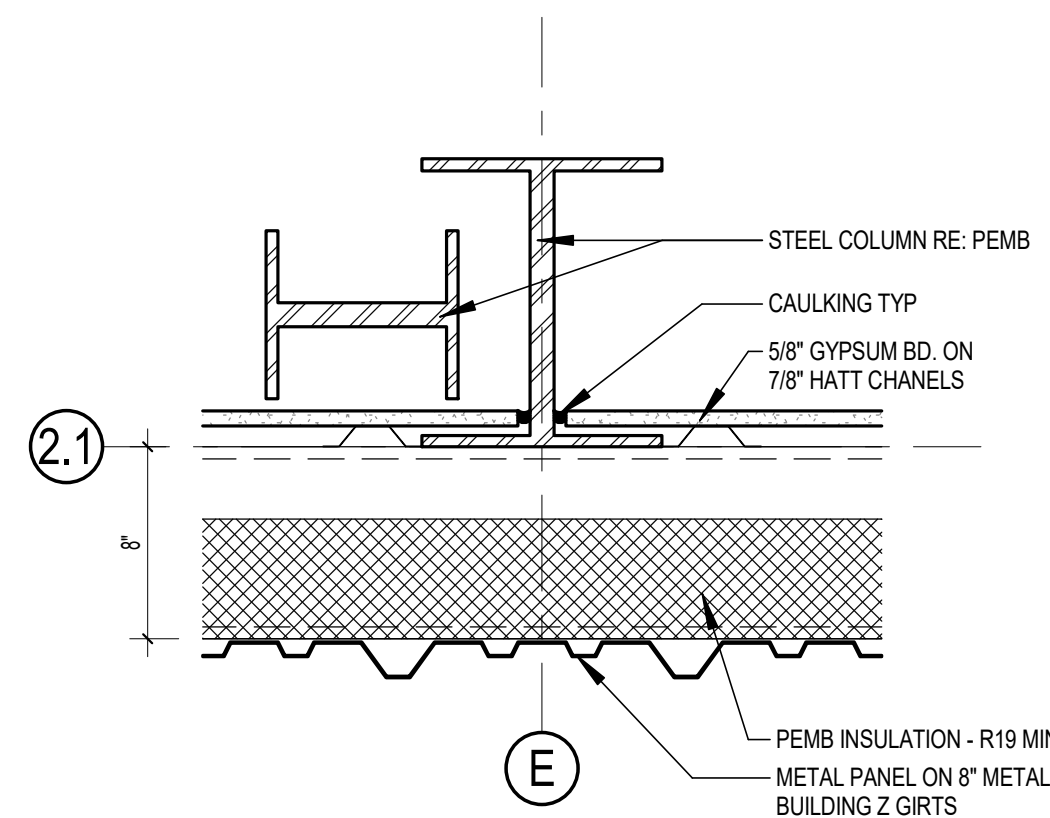
5 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



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



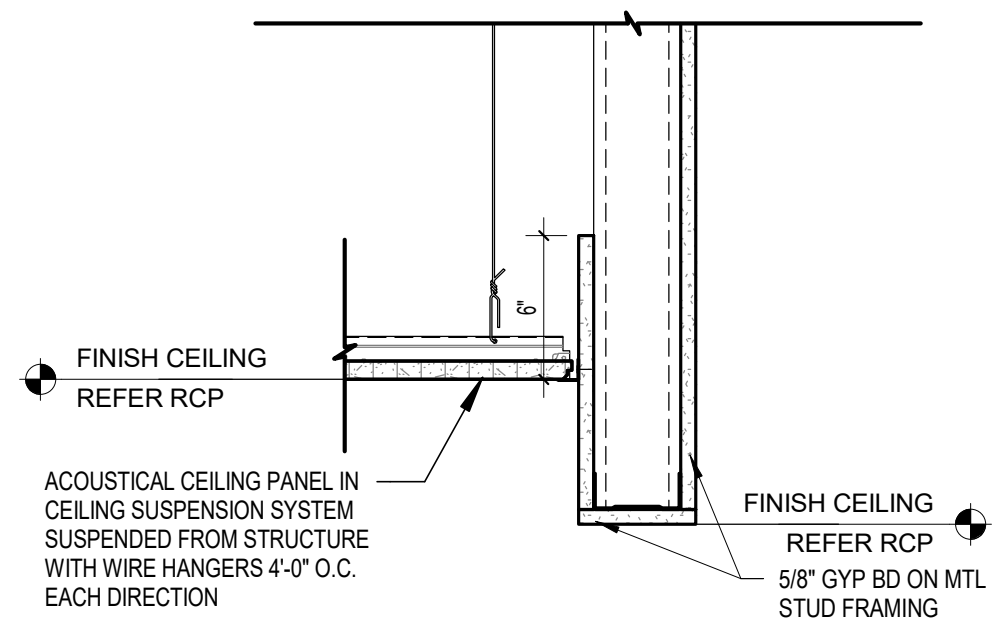
2 TYPICAL PLAN DETAIL
1 1/2" = 1'-0"



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

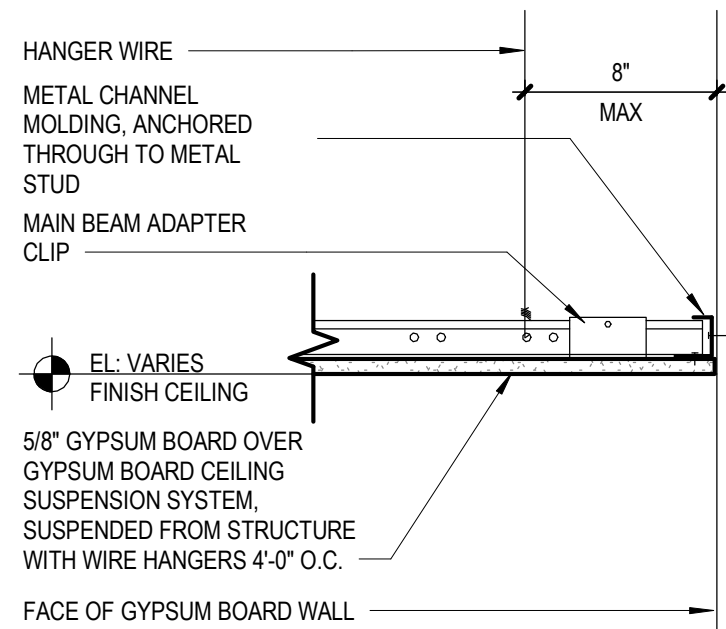
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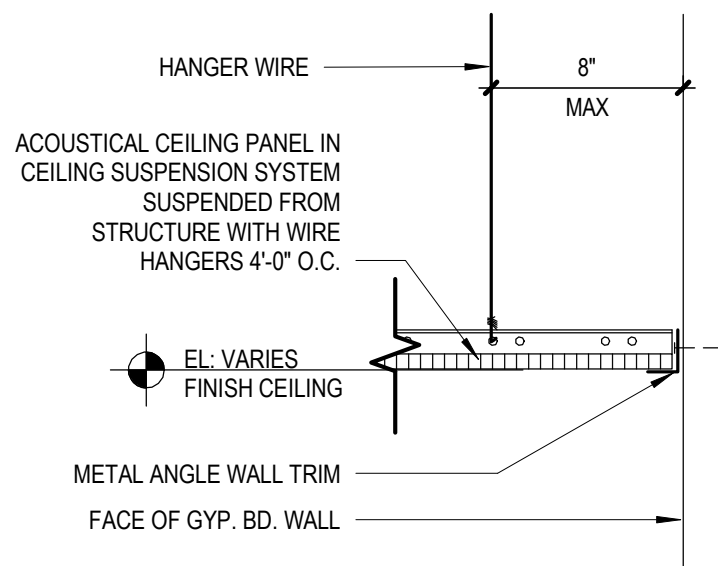
4 CEILING DETAIL AT SOFFIT

1 1/2" = 1'-0"



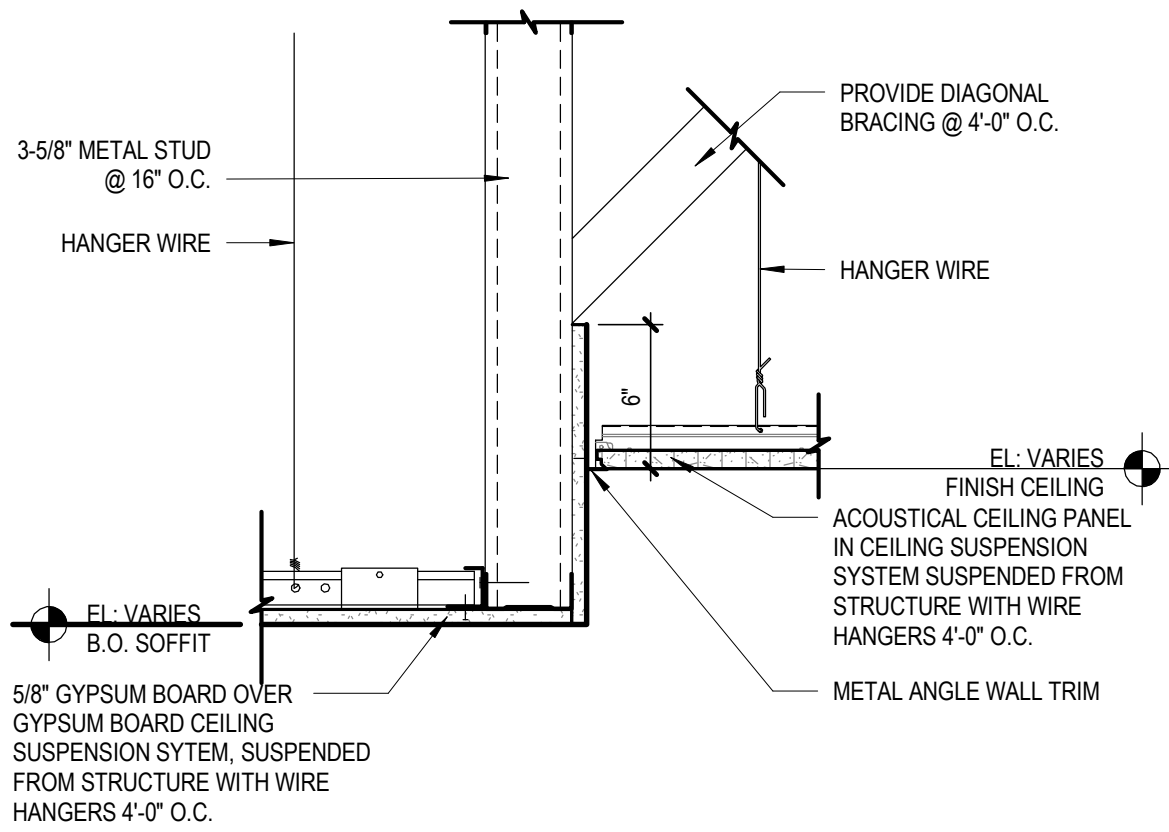
3 CEILING DETAIL AT GYP BD

1 1/2" = 1'-0"



2 CEILING DETAIL AT ACOUSTIC PANEL

1 1/2" = 1'-0"



1 CEILING DETAIL AT TRANSITION

1 1/2" = 1'-0"

100% CONSTRUCTION
DOCUMENTS
03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

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CEILING DETAILS

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CHKD BY: SE

A521

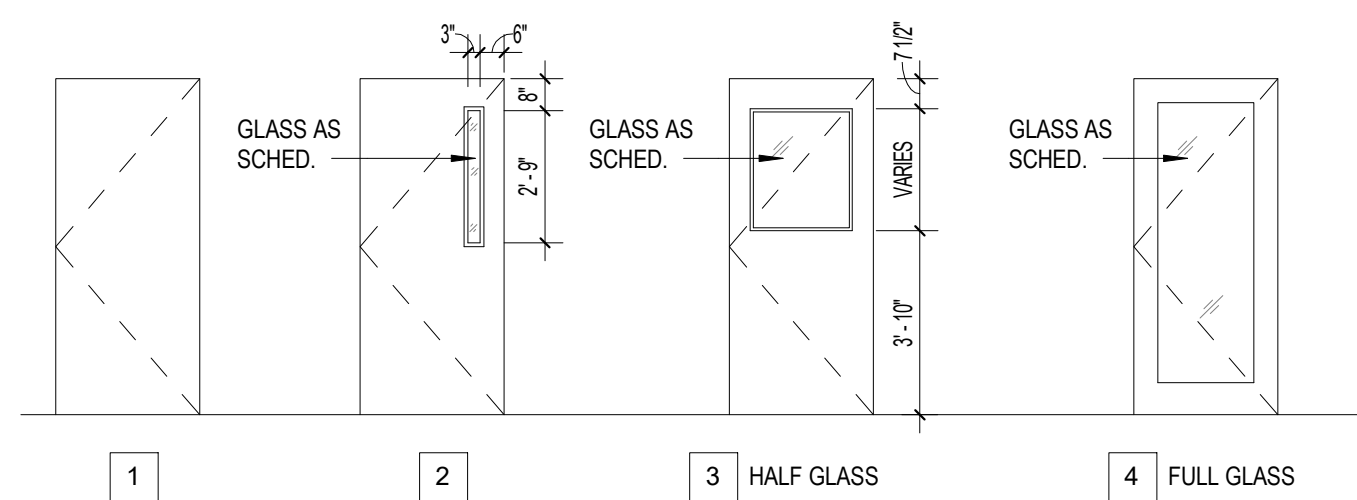
SCALE 1 1/2" = 1'-0"

3/3/2025

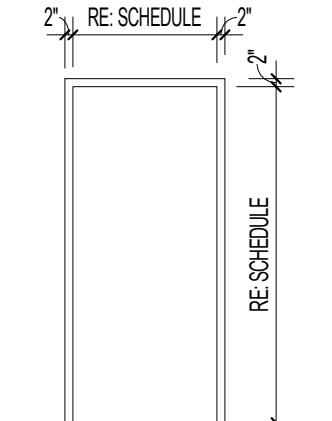
CONSULTANT:

Reference Cover Sheet
for Consultant Directory

DOOR AND FRAME SCHEDULE - SECOND FLOOR																		
DOOR NO.	PAIR / SINGLE	DOOR IDENTIFICATION		DOOR CONSTRUCTION			FRAME CONSTRUCTION			FIRE RATING	DOOR / FRAME DETAILS			GLAZING TYPE	HW SET	OPERATOR	ACCESS CONTROL	COMMENTS
		SIZE	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD		JAMB	SILL						
													WIDTH					
SECOND FLOOR LEVEL																		
201	PS	6'-0"	7'-0"	4	WD	BIRCH NAT	A	HM	60	2/A601	1/A601	-	12		•	PANIC HARDWARE		
204		3'-0"	7'-0"	2	WD	BIRCH NAT	A	HM		2/A601	1/A601	-	14					
205		3'-0"	7'-0"	2	WD	BIRCH NAT	A	HM		2/A601	1/A601	-	14					
206	PR	3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	14						
207		3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	14						
208		3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	14						
209		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	15						
210		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	15						
211		6'-0"	7'-0"	2	HM		A	HM	2/A601	1/A601	-	11			PANIC HARDWARE			
216		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	14						
219		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	17						
223		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	18						
224		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	15						
225	3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	18							
226.1	3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	18							
226.2	3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	18							
228	3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	14							
229	3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	14							
230	3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM	2/A601	1/A601	-	14							

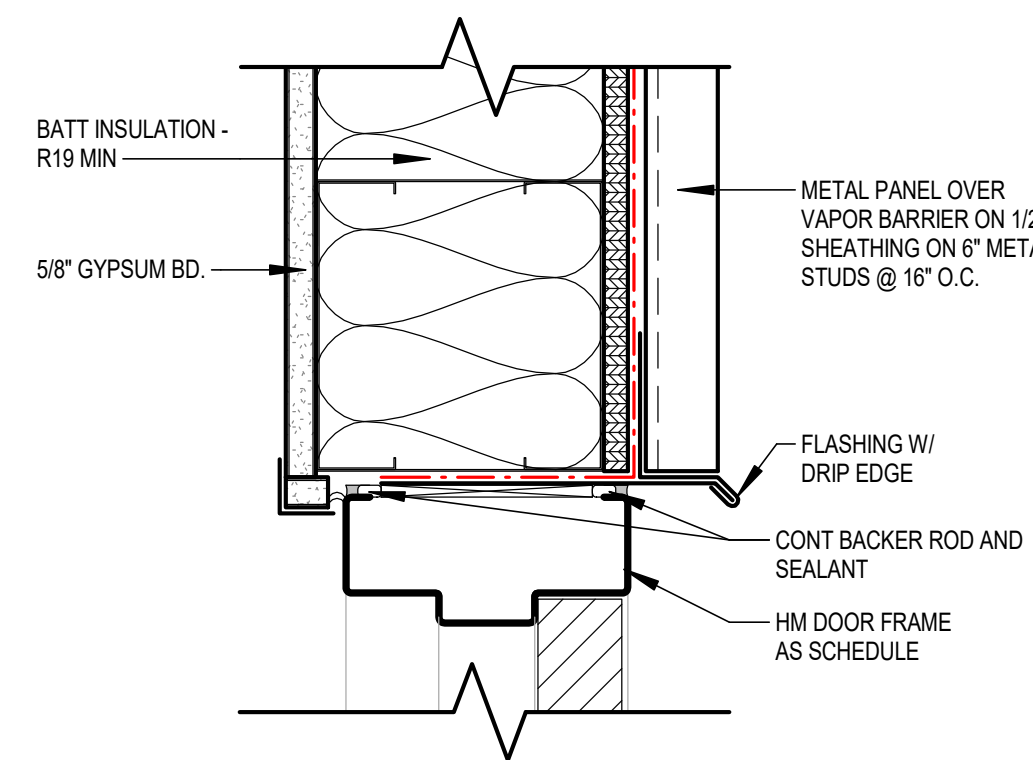


DOOR TYPES

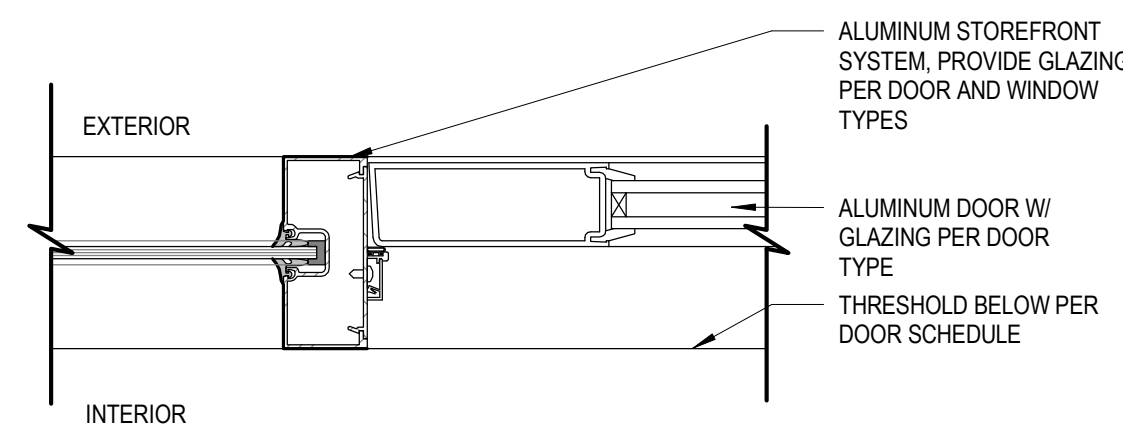


FRAME TYPES

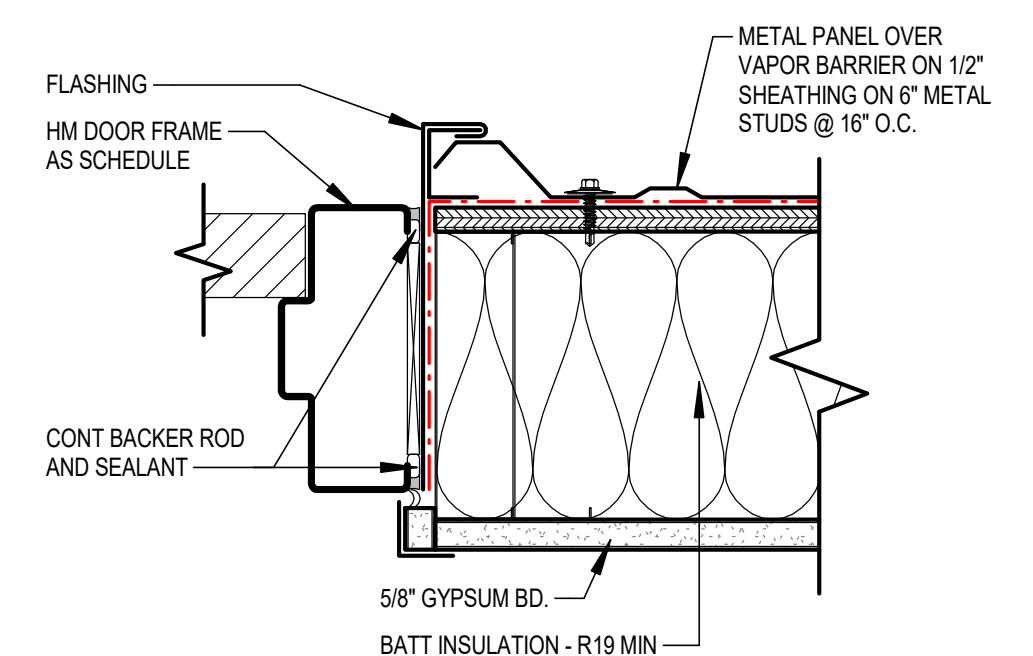
DOOR AND FRAME SCHEDULE - FIRST FLOOR																		
DOOR NO.	DOOR IDENTIFICATION		DOOR CONSTRUCTION			FRAME CONSTRUCTION			FIRE RATING	DOOR / FRAME DETAILS			GLAZING TYPE	HW SET	OPERATOR	ACCESS CONTROL	COMMENTS	
	PAIR / SINGLE	SIZE		TYPE	MATERIAL	FINISH	TYPE	MATERIAL		FINISH	HEAD	JAMB						SILL
		WIDTH	HEIGHT															
FIRST FLOOR LEVEL																		
101.1		3'-0"	7'-0"	4	ALUM		A	ALUM			10/A602	7/A601	6/A601		01	•		PANIC HARDWARE
101.2	PR	8'-0"	7'-0"	4	ALUM		A	ALUM			10/A602	7/A601	6/A601		02		•	PANIC HARDWARE
101.3		3'-0"	7'-0"	4	ALUM		A	ALUM			10/A602	7/A601	6/A601		03			PANIC HARDWARE
102.1		3'-0"	7'-0"	4	ALUM		A	ALUM			2/A602	7/A601	6/A601		04	•		PANIC HARDWARE
102.2	PR	8'-0"	7'-0"	4	ALUM		A	ALUM			2/A602	7/A601	6/A601		08			PANIC HARDWARE
102.3		3'-0"	7'-0"	4	ALUM		A	ALUM			2/A602	7/A601	6/A601		07			PANIC HARDWARE
102.4	PR	6'-0"	7'-0"	4	ALUM		A	ALUM			8/A602	7/A602	6/A601		06			PANIC HARDWARE
102.5	PR	6'-0"	7'-0"	4	ALUM		A	ALUM			8/A602	7/A602	6/A601		05	•		PANIC HARDWARE
103.1		3'-0"	7'-0"	4	ALUM		A	ALUM			2/A602	7/A601	6/A601		07			PANIC HARDWARE
103.2	PR	8'-0"	7'-0"	4	ALUM		A	ALUM			2/A602	7/A601	6/A601		08			PANIC HARDWARE
103.3		3'-0"	7'-0"	4	ALUM		A	ALUM			2/A602	7/A601	6/A601		07			PANIC HARDWARE
103.4	PR	6'-0"	7'-0"	4	ALUM		A	ALUM			8/A602	7/A602	6/A601		06	•		PANIC HARDWARE
103.5	PR	6'-0"	7'-0"	4	ALUM		A	ALUM			8/A602	7/A602	6/A601		06			PANIC HARDWARE
104.1		3'-0"	7'-0"	4	ALUM		A	ALUM			8/A602	7/A601	6/A601		03			PANIC HARDWARE
104.2	PR	8'-0"	7'-0"	4	ALUM		A	ALUM			8/A602	7/A601	6/A601		02	•		PANIC HARDWARE
104.3		3'-0"	7'-0"	4	ALUM		A	ALUM			8/A602	7/A601	6/A601		03			PANIC HARDWARE
106		3'-0"	7'-0"	2	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
107		3'-0"	7'-0"	2	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
108		3'-0"	7'-0"	2	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
109		3'-0"	7'-0"	2	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
110		3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
111		3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM			2/A602	1/A601	-		14			
112		3'-0"	7'-0"	1	HM		A	HM			2/A601	1/A601	-		10			PANIC HARDWARE
114.1		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
114.2		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		15			PANIC HARDWARE
115.1	PR	6'-0"	7'-0"	2	HM		A	HM		60	2/A601	1/A601	-		11			PANIC HARDWARE
115.2	PR	6'-0"	7'-0"	2	HM		A	HM			5/A601	4/A601	3/A601		09	•		PANIC HARDWARE
116.1	PR	6'-0"	7'-0"	4	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		12	•		PANIC HARDWARE
116.2	PR	6'-0"	7'-0"	2	HM		A	HM			5/A601	4/A601	3/A601		09	•		PANIC HARDWARE
117		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
118		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		17			
122		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		18			
123		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		15			
124		3'-0"	7'-0"	1	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
125		3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
126	PR	6'-0"	7'-0"	4	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		12	•		PANIC HARDWARE
127		3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
128		3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
129		3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
130		3'-0"	7'-0"	3	WD	BIRCH NAT	A	HM			2/A601	1/A601	-		14			
131		3'-0"	7'-0"	1	HM		A	HM		60	9/A601	8/A601	-		16			



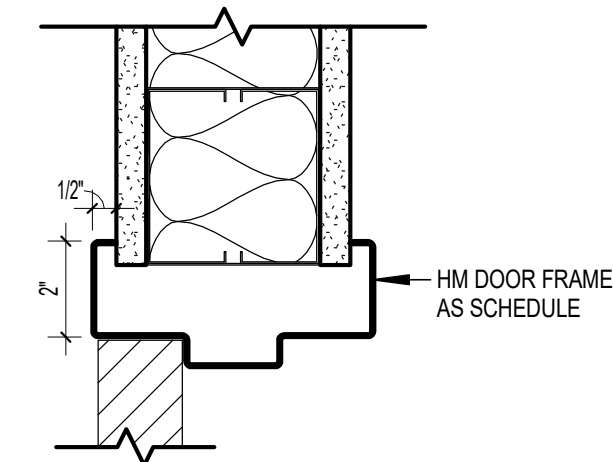
5 HEAD DETAIL
3" = 1'-0"



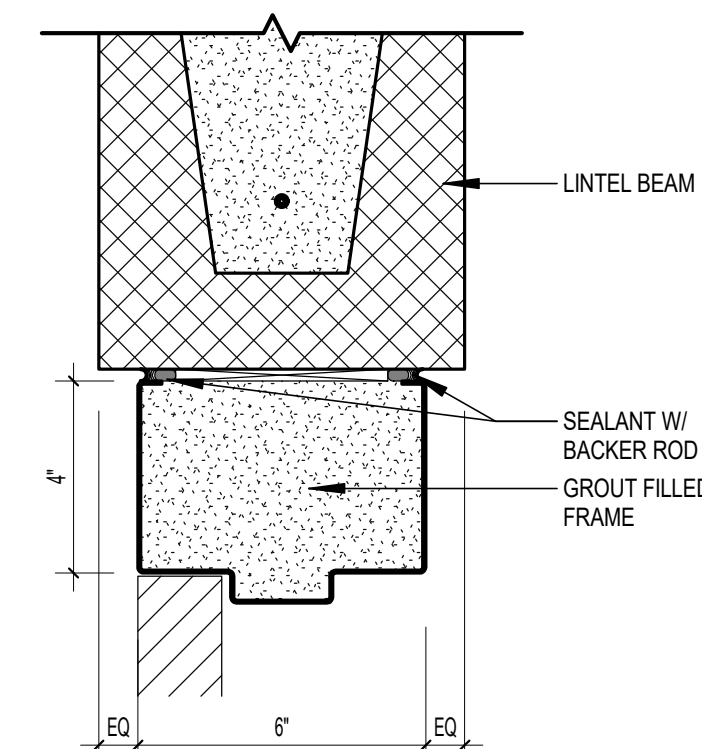
7 STOREFRONT DETAIL AT HEAD AND JAMB
3" = 1'-0"



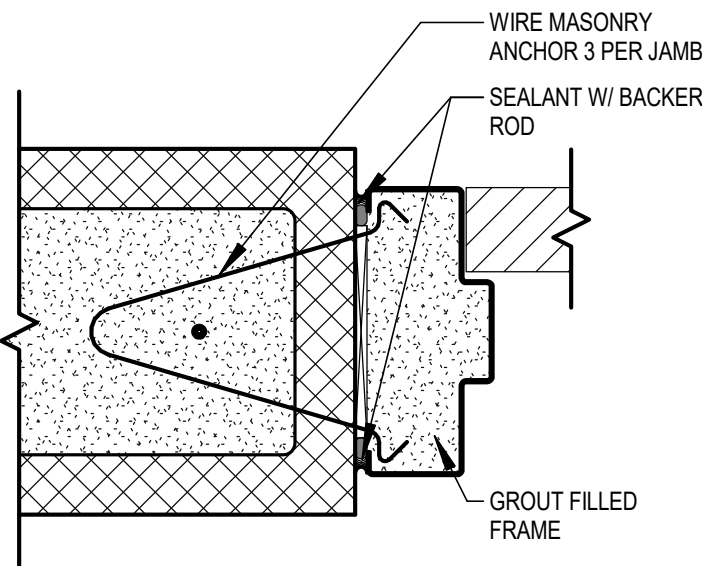
4 JAMB DETAIL
3" = 1'-0"



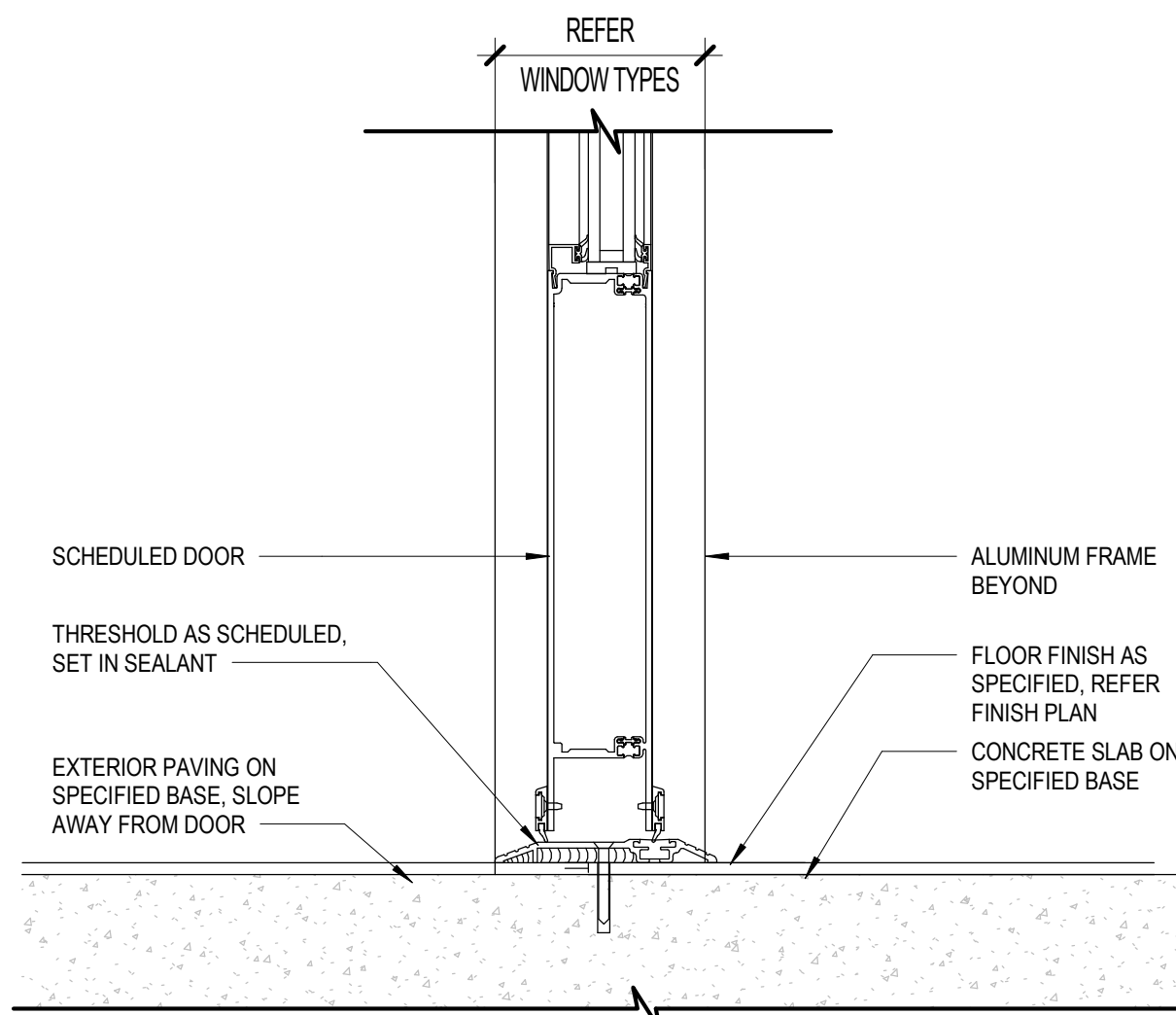
2 HEAD DETAIL
3" = 1'-0"



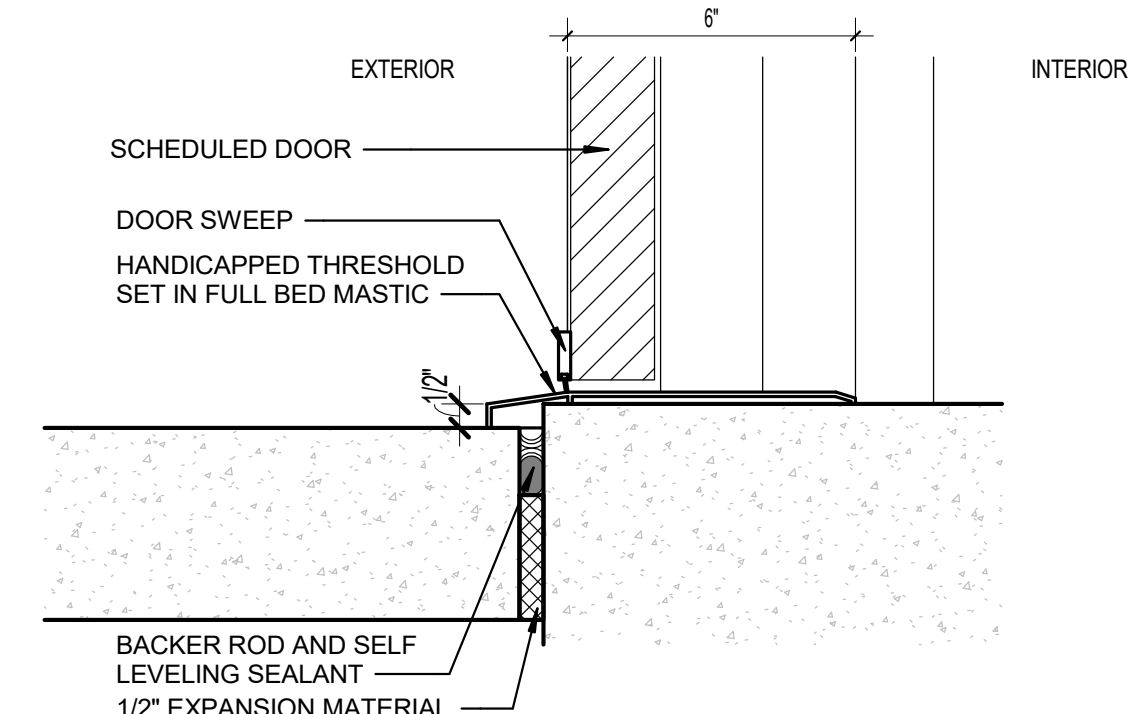
9 HEAD DETAIL
3" = 1'-0"



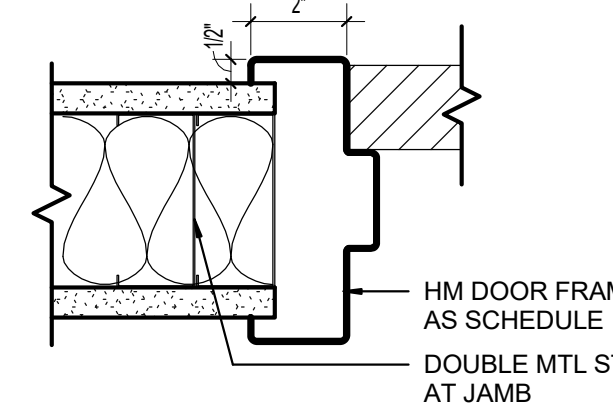
8 JAMB DETAIL
3" = 1'-0"



6 STOREFRONT DETAIL AT THRESHOLD
3" = 1'-0"



3 SILL DETAIL
3" = 1'-0"



1 JAMB DETAIL
3" = 1'-0"

100% CONSTRUCTION
DOCUMENTS
03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

1 04.09.2025 REV#2

DOOR AND DOOR FRAME
SCHEDULES AND DETAILS

JOB 2023.14

ISSUE 03.03.2025

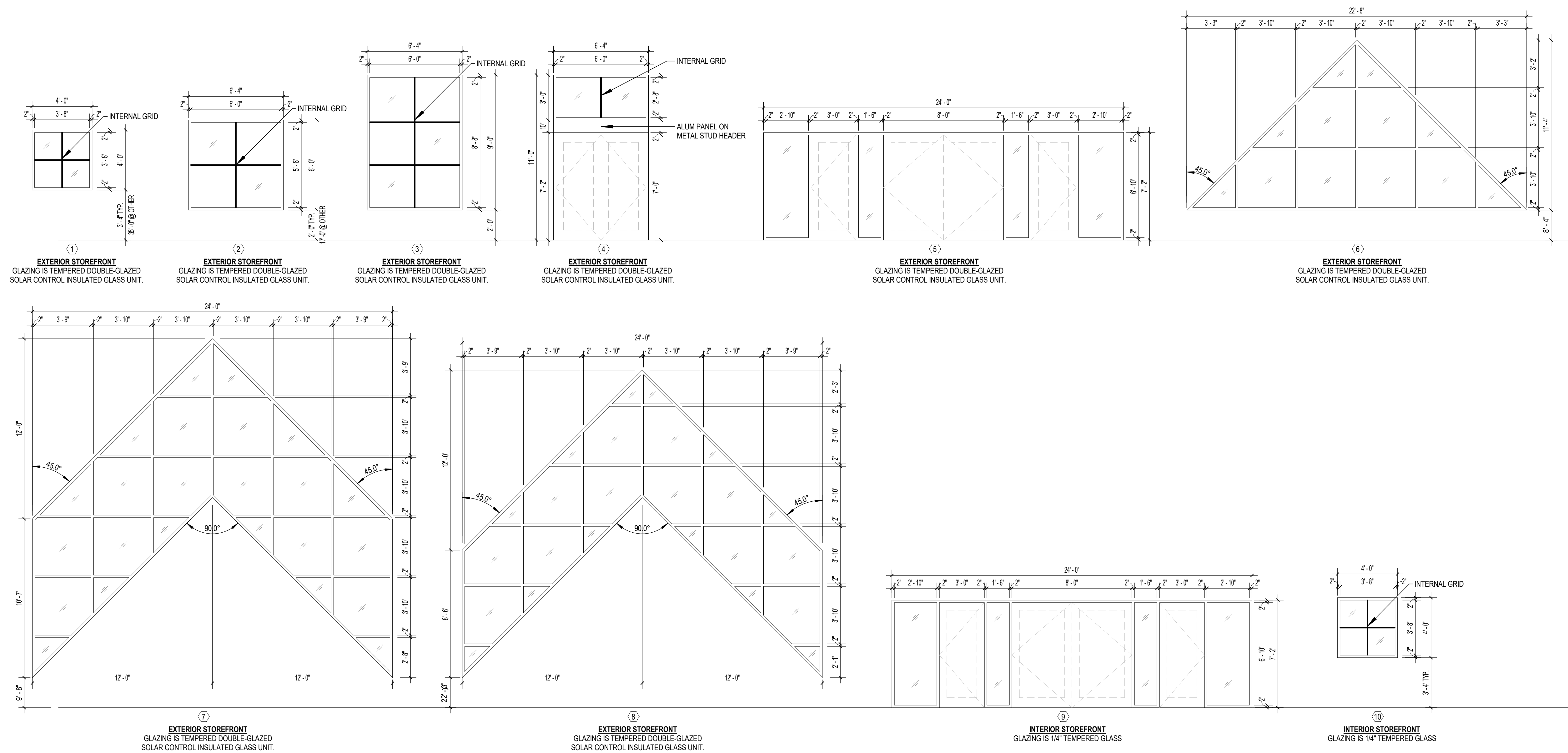
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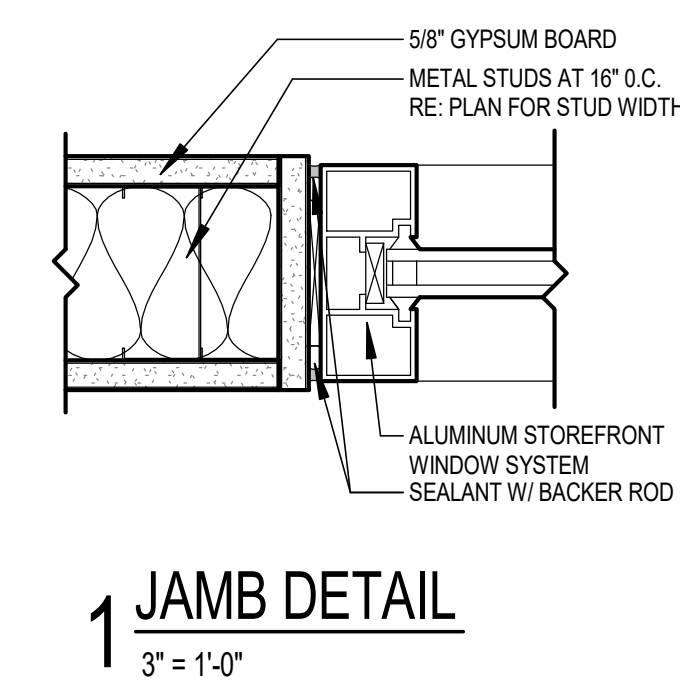
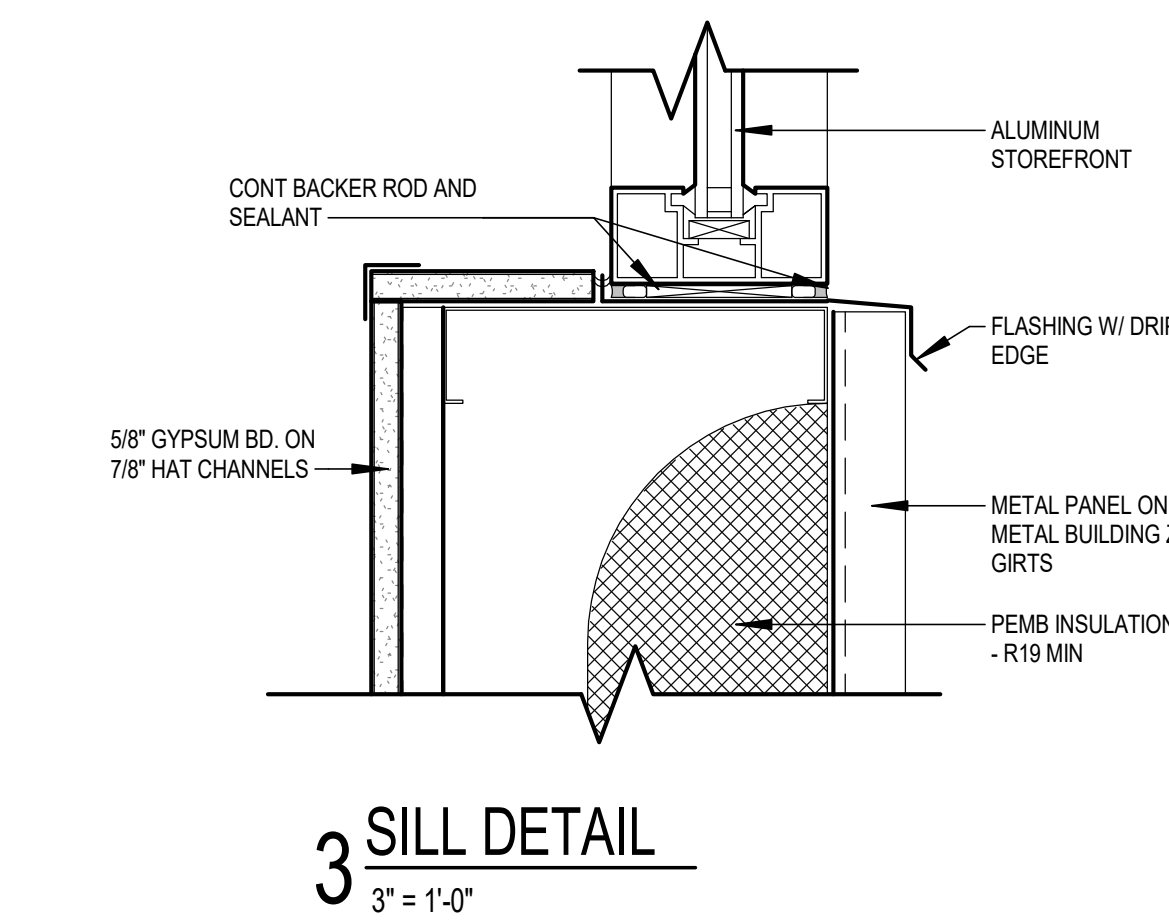
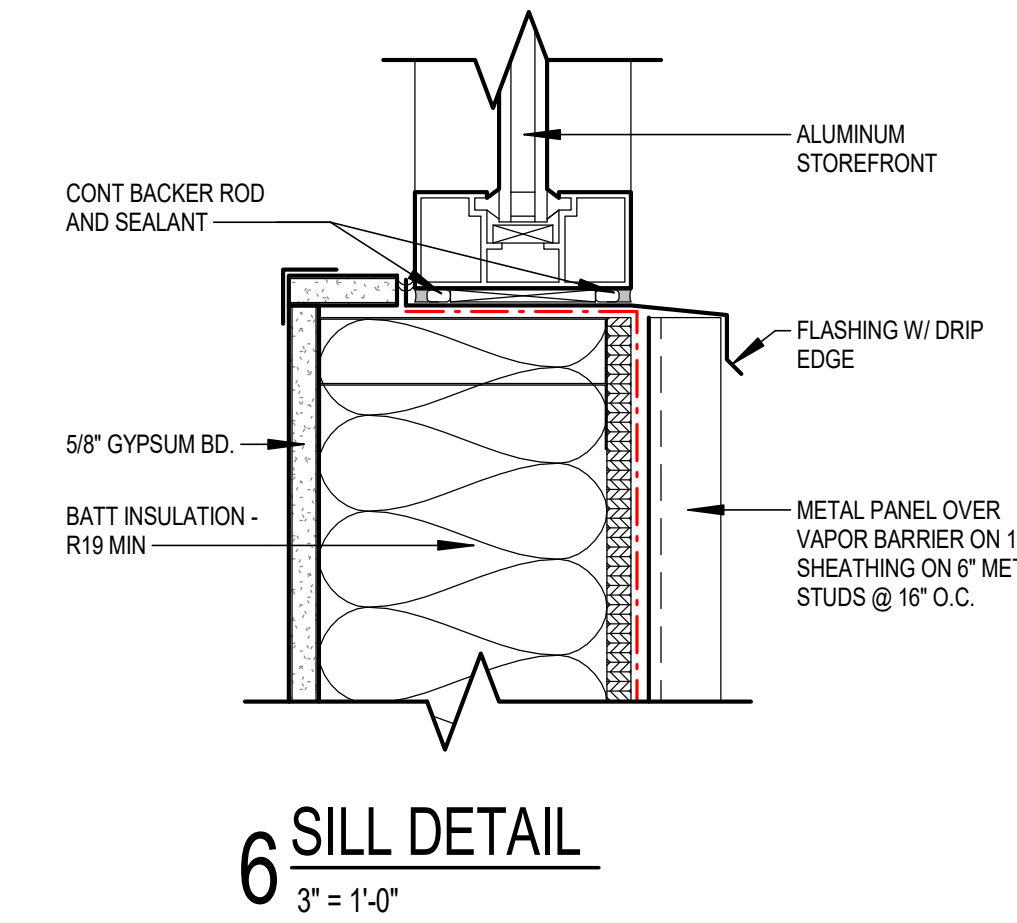
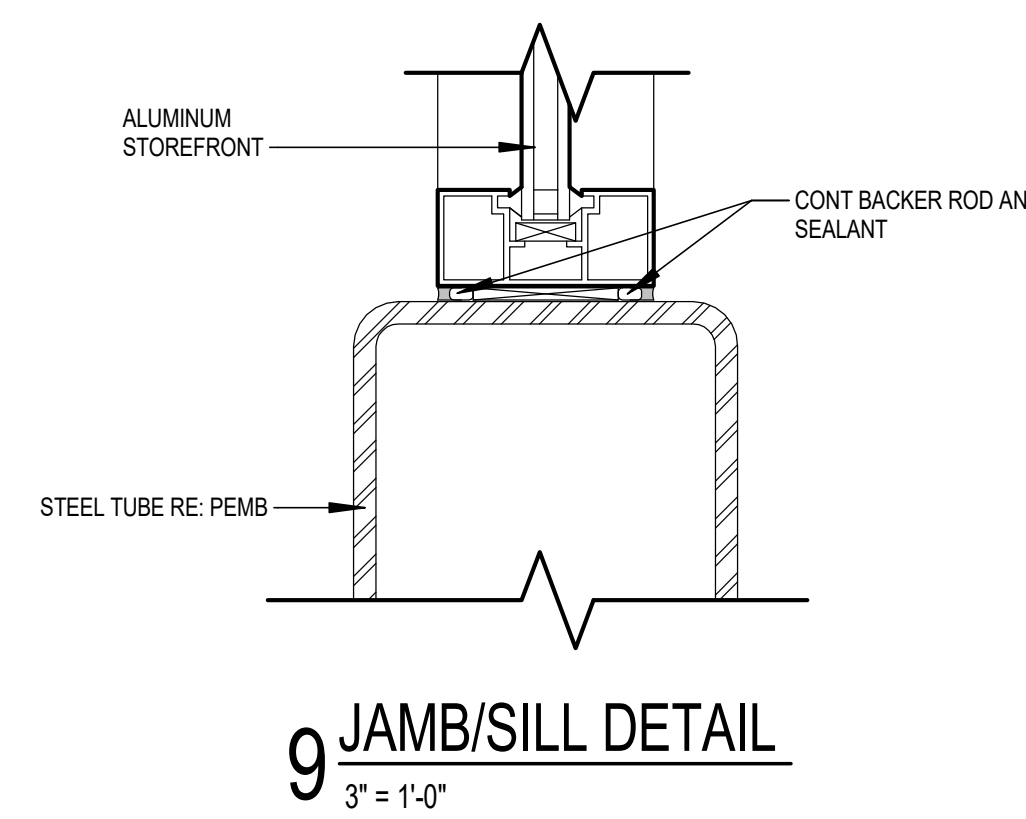
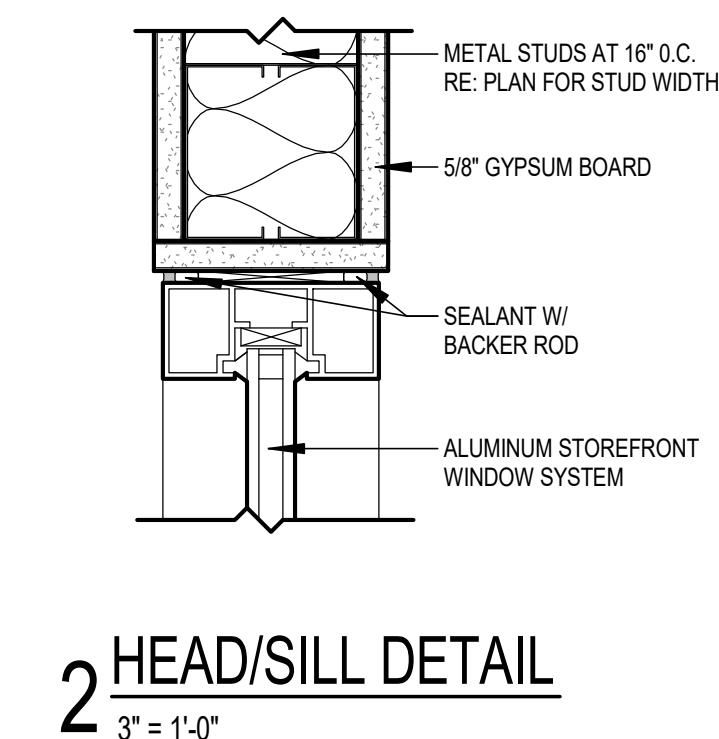
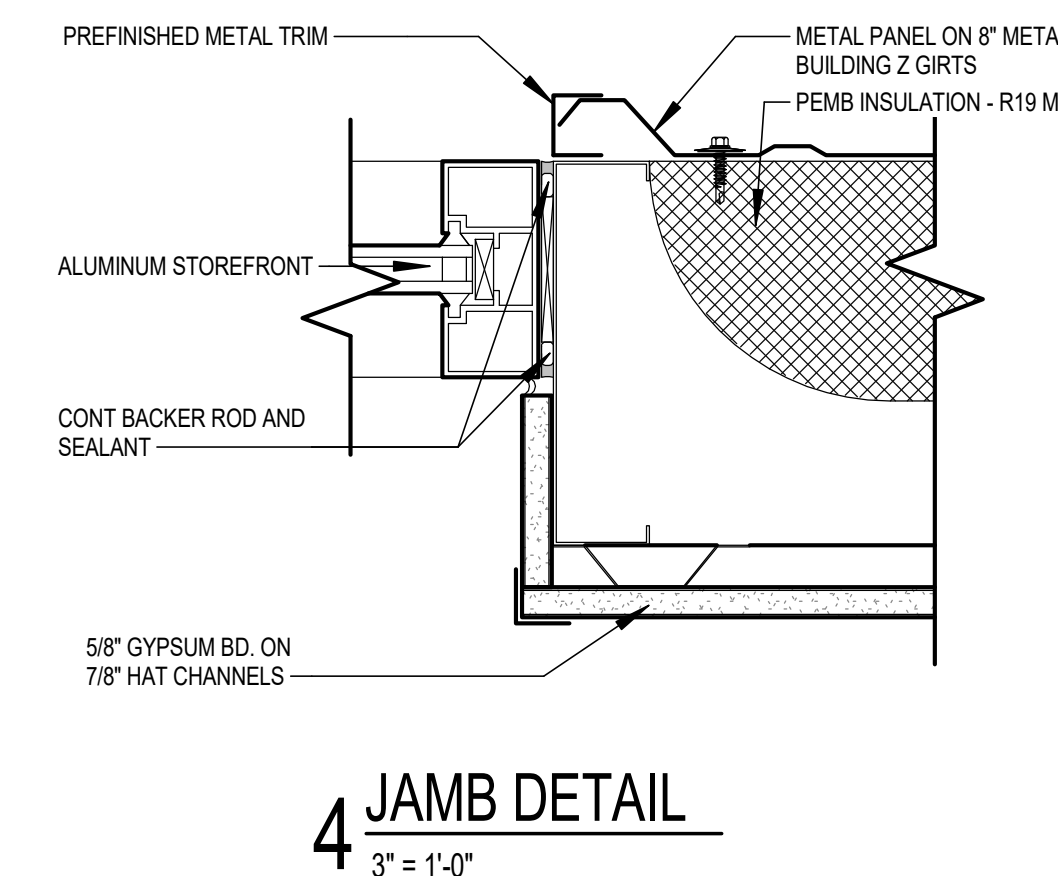
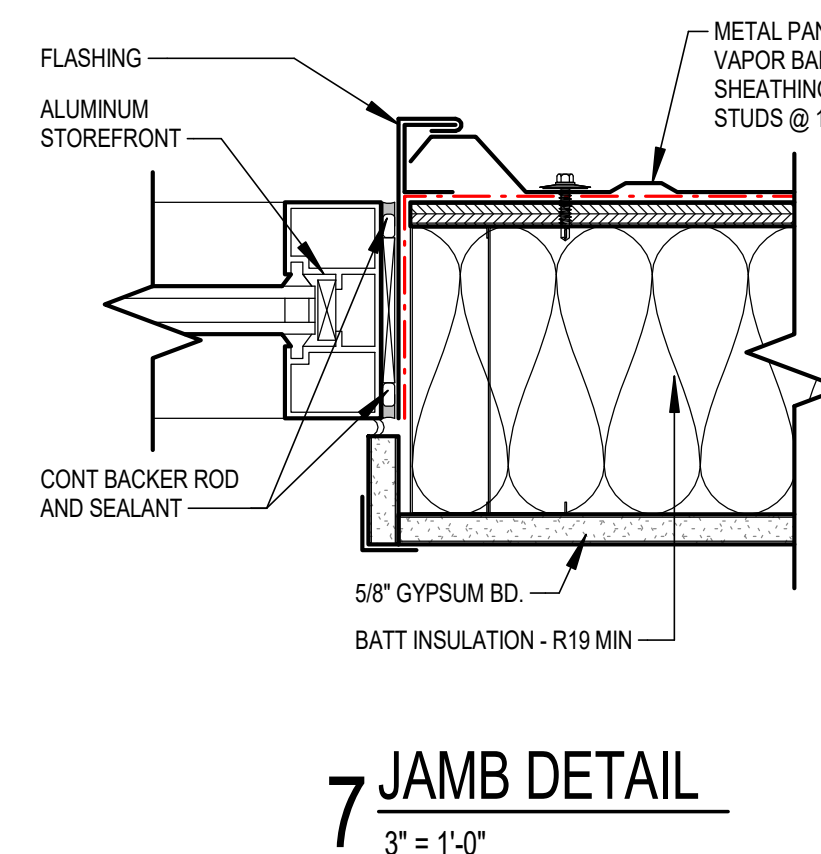
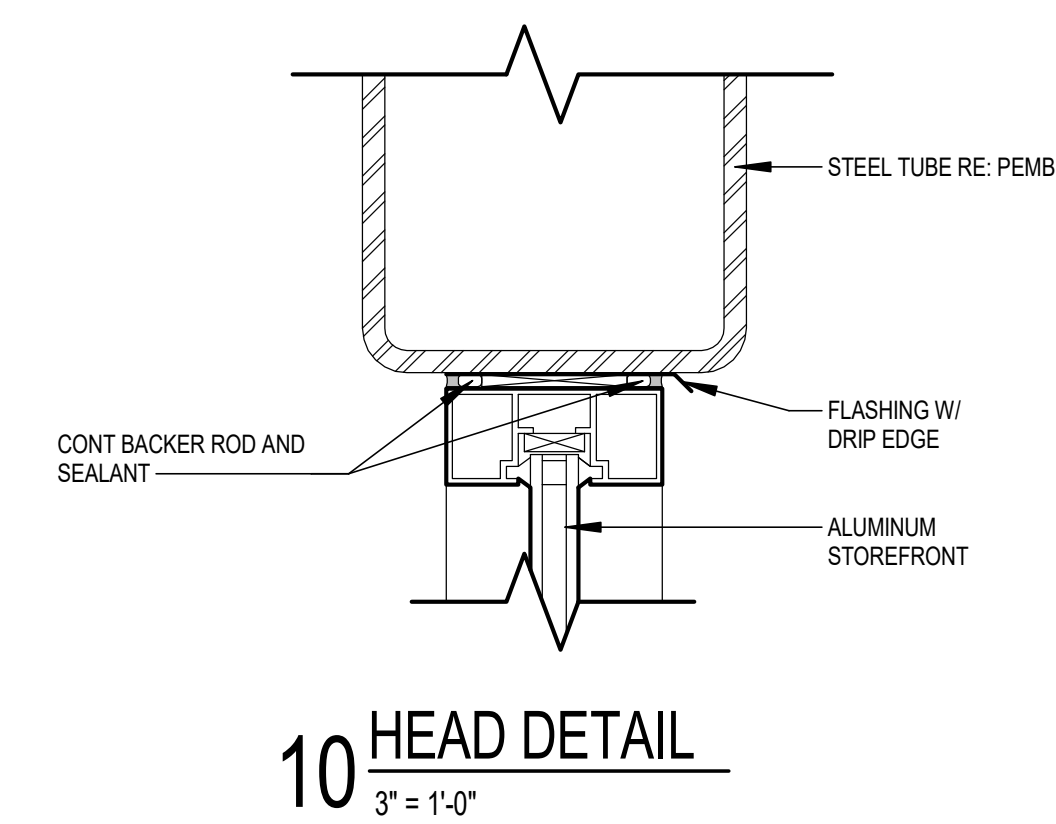
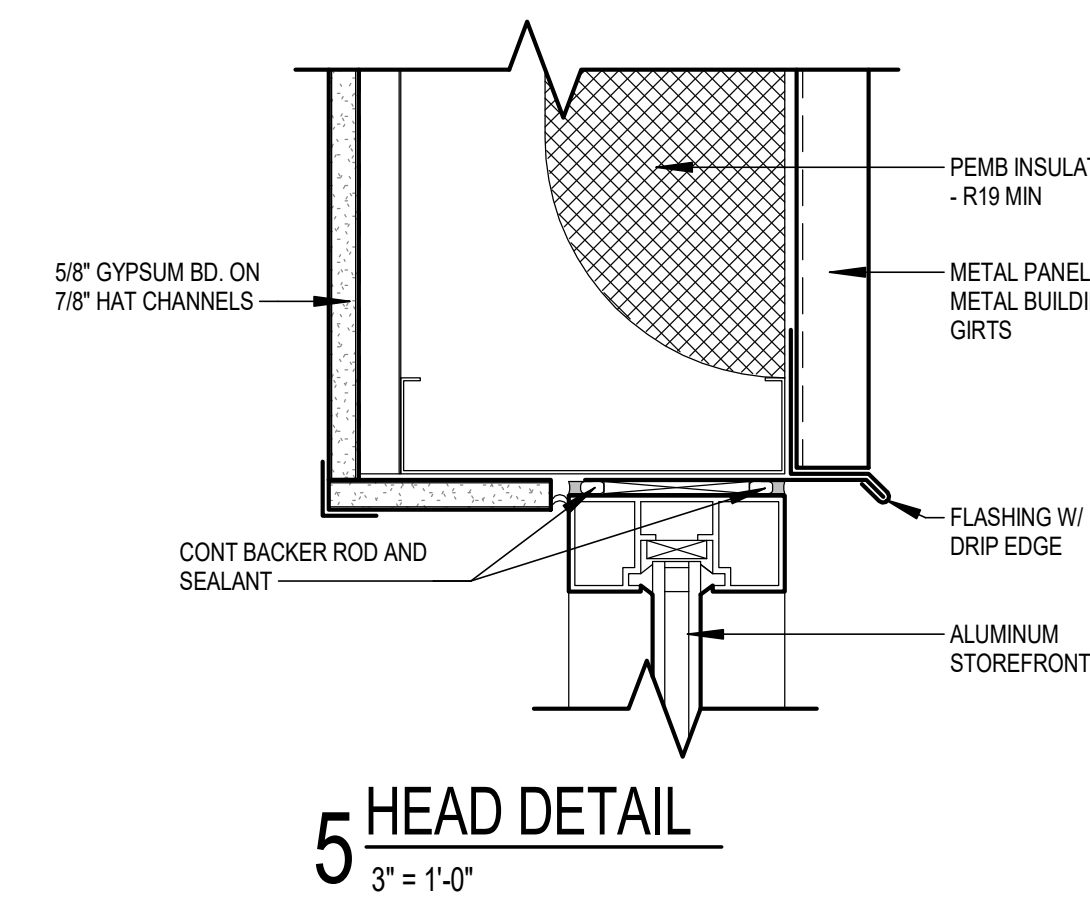
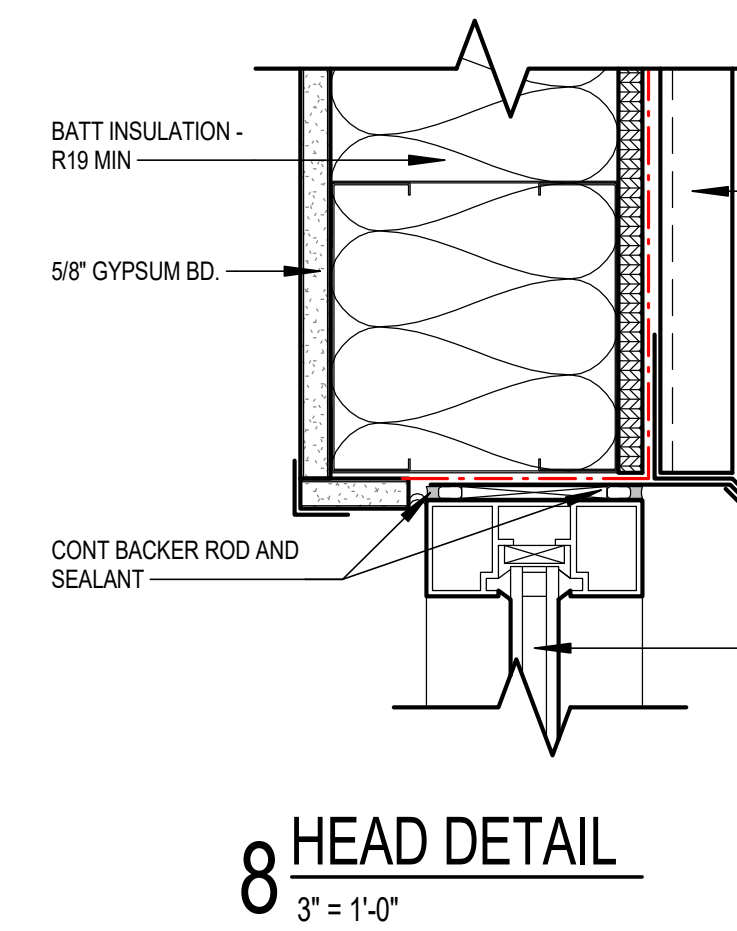
A601

SCALE As indicated

04.09.2025



WINDOW TYPES



100% CONSTRUCTION
DOCUMENTS
03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

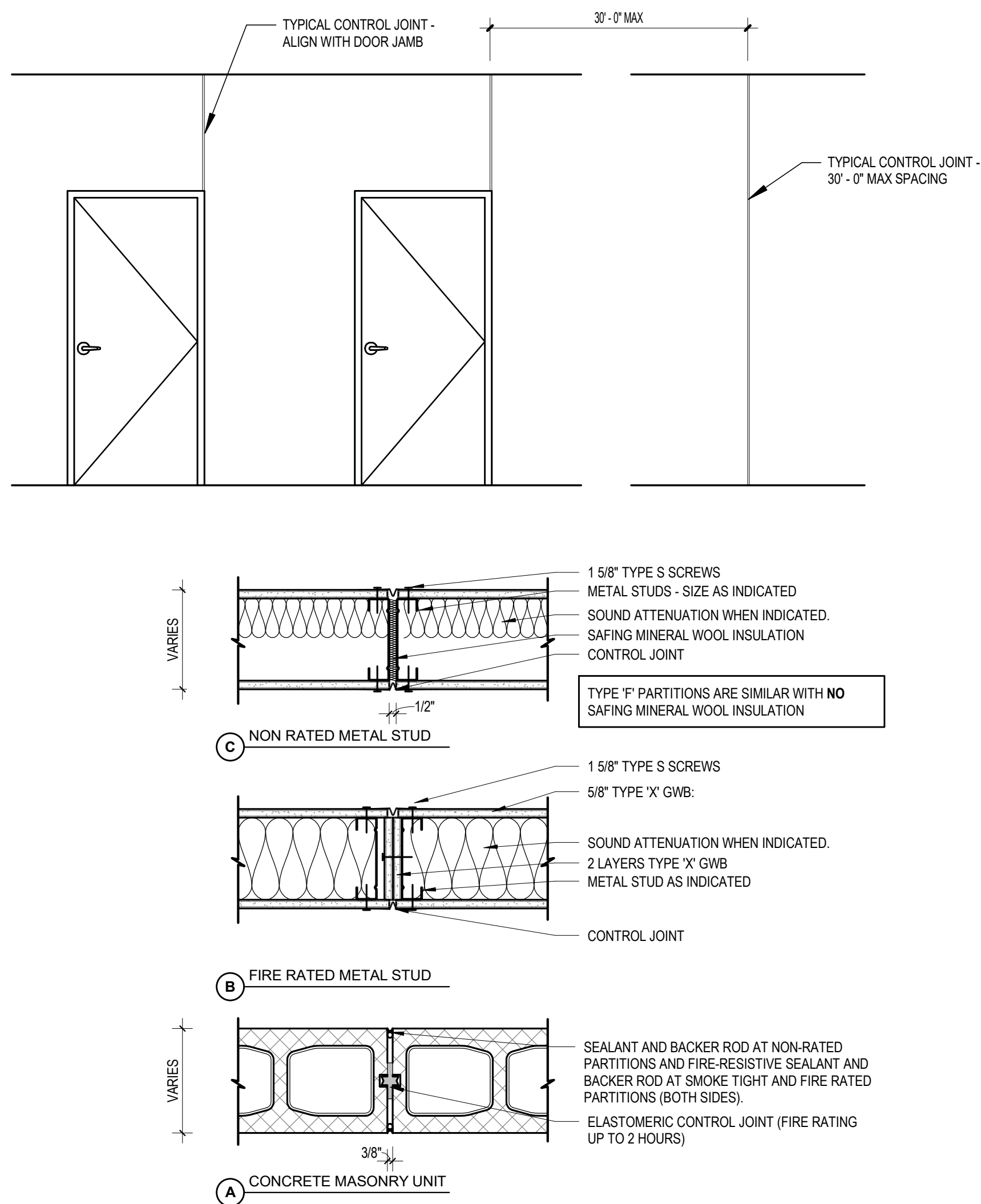
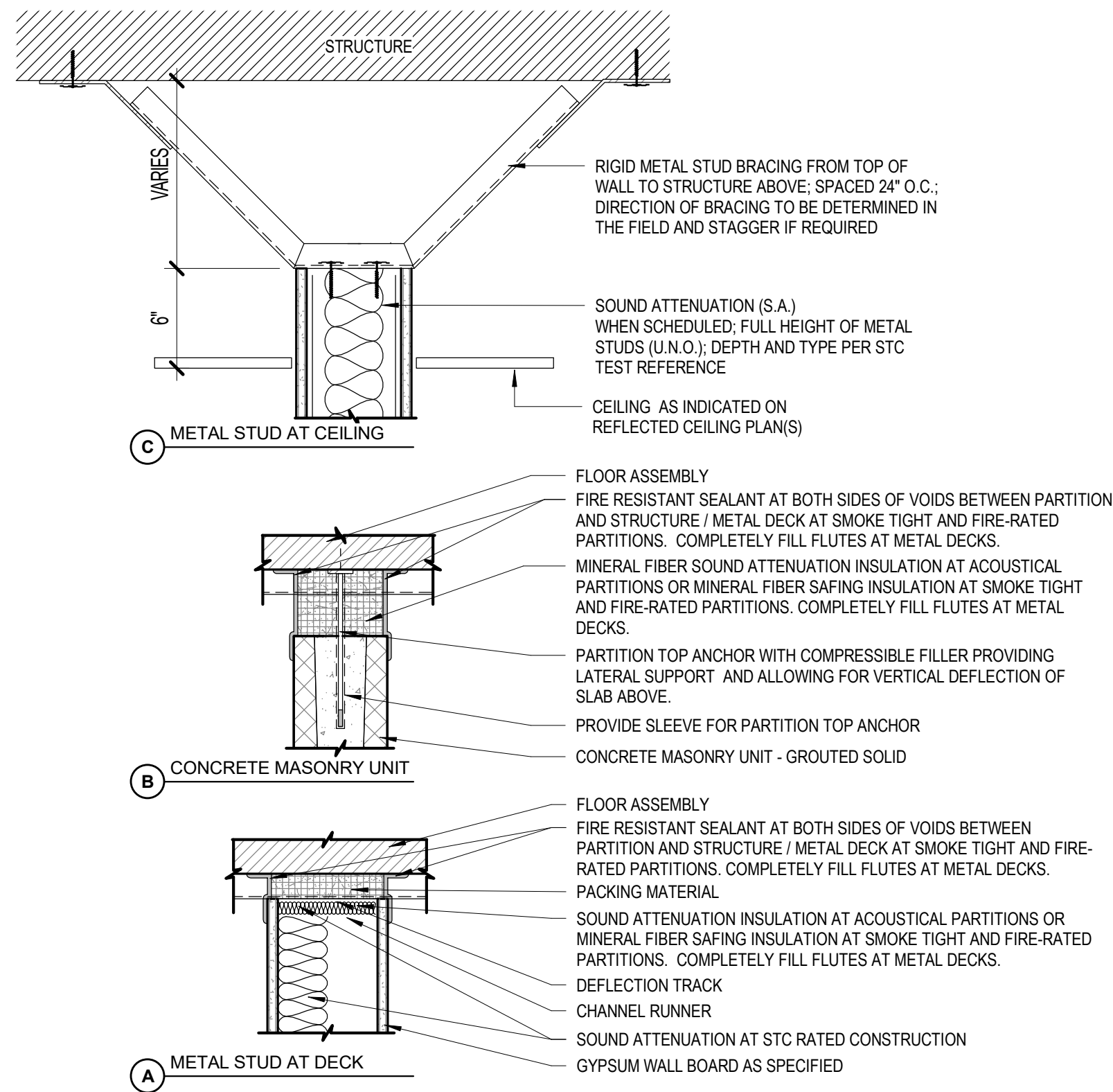
WINDOW TYPES AND DETAILS

JOB 2023.14
ISSUE 03.03.2025
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CHKD BY: SE

A602

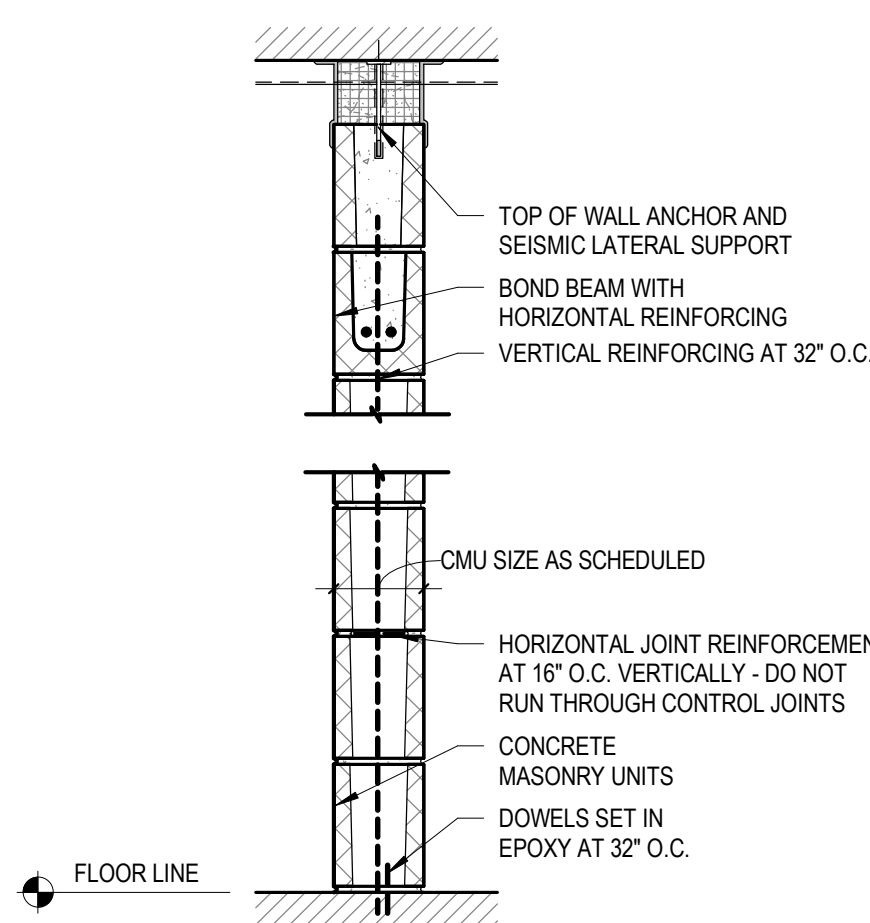
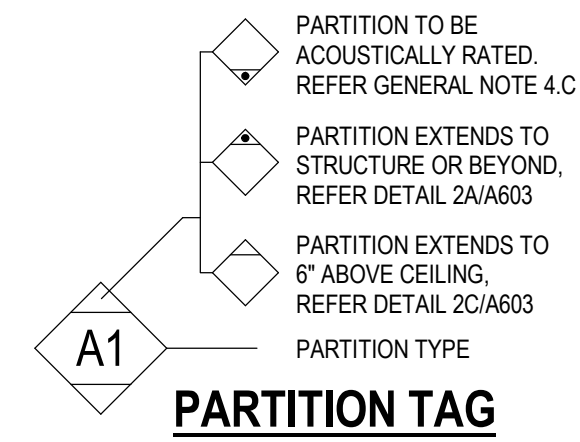
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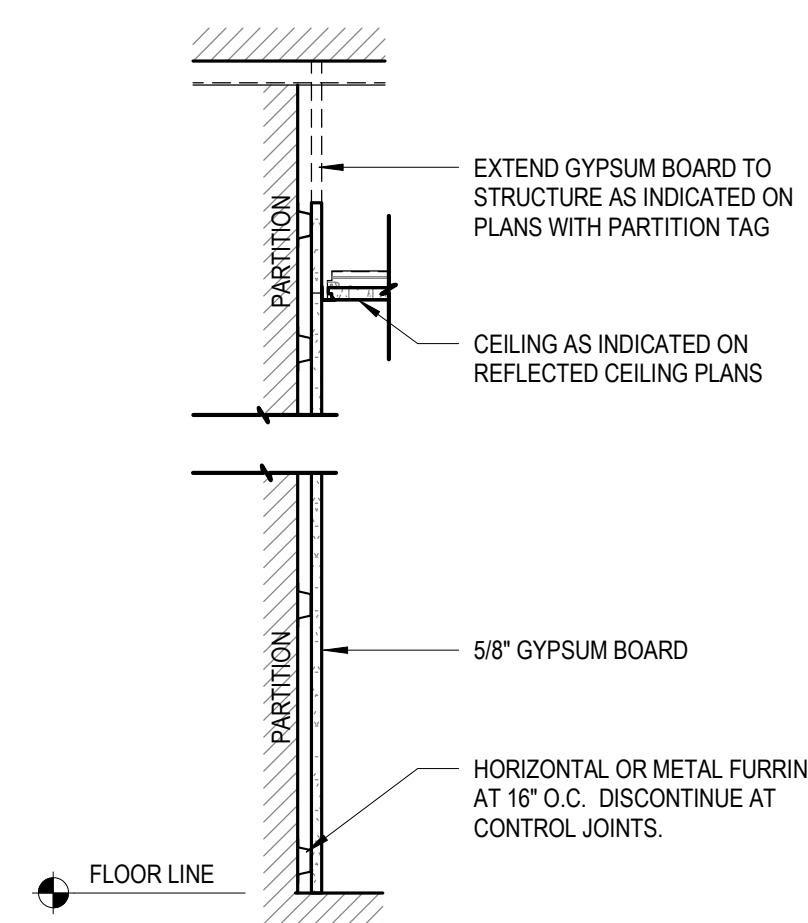


GENERAL NOTES: PARTITION TYPES

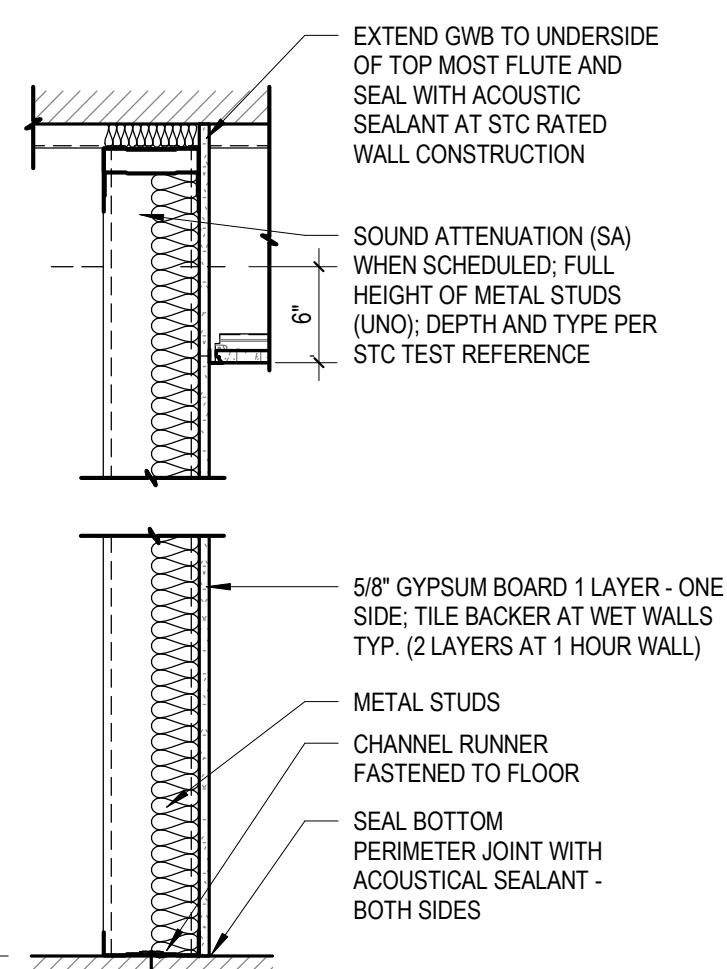
- ALL PARTITIONS** SHALL EXTEND TO THE UNDERSIDE OF STRUCTURE ABOVE UNLESS NOTED OTHERWISE.
- FIRE RATED PARTITIONS**
 - THROUGH PENETRATIONS SHALL BE FIRESTOPPED WITH A U.L. LISTED ASSEMBLY.
 - MEMBRANE PENETRATIONS (DEVICES AND BOXES) SHALL BE INSTALLED PER IBC SECTION 714 WITH U.L. LISTED MATERIALS.
 - TOP OF PARTITION SHALL BE CONTINUOUSLY SEALED WITH FIRE RESISTANT U.L. LISTED ASSEMBLIES AND MATERIALS.
 - STRUCTURAL STEEL FRAMING MEMBERS INTEGRAL WITH A PARTITION SHALL RECEIVE A U.L. LISTED FIRE RATED ASSEMBLY TO ACHIEVE THE DESIGNATED FIRE RATING OF THE PARTITION. REFER TO IBC TABLE 721.1(1) FOR THE MINIMUM FINISHED REQUIRED FOR CONCRETE MASONRY UNIT PARTITIONS.
- SMOKE PARTITIONS:**
 - VOIDS AROUND PENETRATING ITEMS SHALL BE FILLED WITH U.L. LISTED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE.
 - THE TOP OF PARTITION SHALL BE CONTINUOUSLY SEALED WITH U.L. LISTED MATERIAL TO LIMIT THE FREE PASSAGE OF SMOKE.
- ACOUSTIC PARTITIONS:**
 - THROUGH PENETRATIONS AND THE TOP AND BOTTOM PERIMETER OF ACOUSTIC PARTITIONS SHALL BE CONTINUOUSLY SEALED WITH ACOUSTIC SEALANT IN ACCORDANCE WITH U.L. LISTED ASSEMBLY.
 - MEMBRANE PENETRATIONS (DEVICES AND BOXES) SHALL BE SEALED WITH ACOUSTIC SEALANT AND/OR PUTTY PADS IN ACCORDANCE WITH U.L. LISTED ASSEMBLY.
 - ACOUSTICALLY RATED PARTITIONS TO ACHIEVE STC RATINGS OF 50 UNLESS NOTED OTHERWISE.
- GYPSUM BOARD:**
 - AT CONTINUOUS PARTITIONS, PROVIDE HORIZONTAL AND VERTICAL CONTROL JOINTS AT A MAXIMUM OF 30 FEET INTERVALS AND AS REQUIRED / RECOMMENDED BY ASTM 840. VERIFY THE LOCATIONS OF ALL CONTROL JOINTS WITH THE ARCHITECT PRIOR TO PARTITION ASSEMBLY. REFER TO SPECIFICATION SECTION 09500 "GYPSUM BOARD" FOR GYPSUM BOARD TYPE SCHEDULE.
 - REFER TO PARTITION SCHEDULE FOR TYPICAL VERTICAL CONTROL JOINT DETAILS.



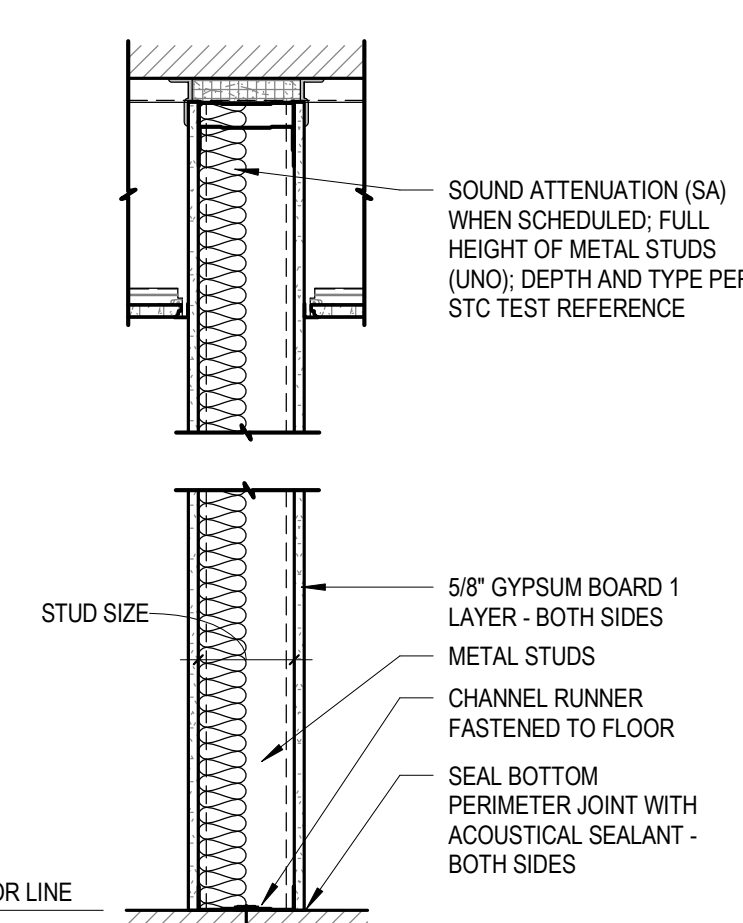
PARTITION TYPE	NOMINAL SIZE	ACTUAL SIZE	WHERE FIRE RATING IS INDICATED PROVIDE PER TEST BELOW		SMOKE/TIGHT	ACOUSTICAL RATING		
			RATING	DESIGN #		STC	TEST REFERENCE	S.A.
M3	8"	7 5/8"	1 HR					



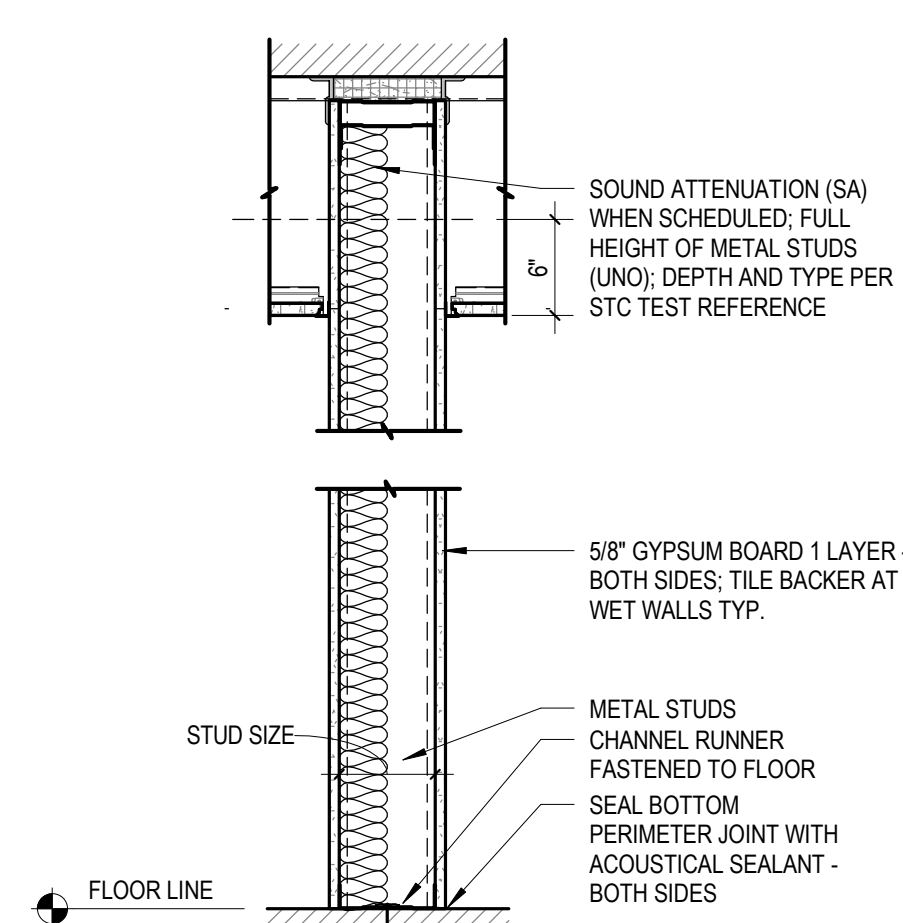
PARTITION TYPE	STUD SIZE	OVERALL DIMENSION	ACOUSTICAL RATING	
			STC	TEST REFERENCE
E1	7/8"	1 1/2"		



PARTITION TYPE	STUD SIZE	OVERALL DIMENSION	WHERE FIRE RATING IS INDICATED PROVIDE PER TEST BELOW		SMOKE/TIGHT	ACOUSTICAL RATING		
			RATING	DESIGN #		STC	TEST REFERENCE	S.A.
C2	3 5/8"	4 1/4"						
C3	3 5/8"	4 1/4"	1 HR					



PARTITION TYPE	STUD SIZE	OVERALL DIMENSION	WHERE FIRE RATING IS INDICATED PROVIDE PER TEST BELOW		SMOKE/TIGHT	ACOUSTICAL RATING		
			RATING	DESIGN #		STC	TEST REFERENCE	S.A.
B1	3 5/8"	4 7/8"	1 HR	U419				



PARTITION TYPE	STUD SIZE	OVERALL DIMENSION	ACOUSTICAL RATING	
			STC	TEST REFERENCE
A1	3 5/8"	4 7/8"		
A2	6"	7 1/4"		

SPECIALTIES SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	PRODUCT NO.	DIMENSIONS	FINISH	COMMENTS	RESPONSIBILITY
DIVISION 8 - MIRRORS AND GLAZING							
M1	MIRROR	AMERICAN SPECIALTIES, INC.		18" W x 24" H x 3/4" D	STAINLESS STEEL	THEFT RESISTANT	CFCI
M2	MIRROR	AMERICAN SPECIALTIES, INC.		36" W x 48" H x 3/4" D	STAINLESS STEEL	THEFT RESISTANT	CFCI
DIVISION 10 - COMMERCIAL/RESIDENTIAL APPLIANCES							
CPR1	COPIER	-	-	-	-	TBD BY OWNER	OFOI
LKR1	LOCKER	AMERICAN STORAGE SOLUTIONS, INC.		12" W x 12" D x 72" H	CHARCOAL #23	DOUBLE TIER, WITH FRONT & CLOSED END BASE AND CONTINUOUS SLOPE HOOD	CFCI
DIVISION 10 - FIRE PROTECTION SPECIALTIES							
FEC	FIRE EXTINGUISHER CABINET	LARSEN	2409R7	9 1/2" x 24" x 6"	-	[WITH 10b ABC, M10	CFCI
DIVISION 10 - TOILET AND BATH ACCESSORIES							
BCS1	BABY CHANGING STATION	-	-	-	PLASTIC	SURFACE MOUNTED, BASIS OF DESIGN KOALA KARE, KB200	CFCI
GB18	GRAB BAR 18"	AMERICAN SPECIALTIES, INC.	3801-18	1-1/2" x 1'-6"	STAINLESS STEEL	SURFACE MOUNTED	CFCI
GB24	GRAB BAR 24"	AMERICAN SPECIALTIES, INC.	3801-24	1-1/2" x 2'-0"	STAINLESS STEEL	SURFACE MOUNTED	CFCI
GB36	GRAB BAR 36"	AMERICAN SPECIALTIES, INC.	3801-36	1-1/2" x 3'-0"	STAINLESS STEEL	SURFACE MOUNTED	CFCI
GB42	GRAB BAR 42"	AMERICAN SPECIALTIES, INC.	3801-42	1-1/2" x 3'-6"	STAINLESS STEEL	SURFACE MOUNTED	CFCI
SD1	SOAP DISPENSER	AMERICAN SPECIALTIES, INC.	0347	4" x 8" x 3"	STAINLESS STEEL	SURFACE MOUNTED	CFCI
SDN1	SANITARY NAPKIN DISPOSAL	BRADLEY	MODEL 4721-15	12 3/4" L x 17-1/8" H x 4"D	STAINLESS STEEL	PARTITION MOUNTED - SERVES 2 COMPARTMENTS	CFCI
TD1	TOWEL DISPENSER	KIMBERLY-CLARK	9603	13.31" W X 18.85" H X 5.85" D	CHARCOAL GRAY	SURFACE MOUNTED	CFCI
TTD1	TOILET TISSUE DISPENSER	AMERICAN SPECIALTIES, INC.	0040	20 1/2" L x 11-3/16" H x 4-11/16" D	STAINLESS STEEL	SURFACE MOUNTED	CFCI
DIVISION 10 - TOILET COMPARTMENTS							
TP1	TOILET PARTITION	SCRANTON PRODUCTS	HINY HIDERS	-	HDPE, MOCHA, ORANGE PEEL	FLOOR MOUNTED/OVERHEAD BRACED	CFCI
US1	URNAL SCREEN	SCRANTON PRODUCTS	HINY HIDERS	-	HDPE, MOCHA, ORANGE PEEL	WALL MOUNTED	CFCI
DIVISION 10 - WALL AND DOOR PROTECTION							
CG1	CORNER GUARDS	SEELYE CRAFTSMEN CO., INC.	-	-	STAINLESS STEEL	SURFACE MOUNTED	CFCI

INTERIORS / FINISHES NOTES

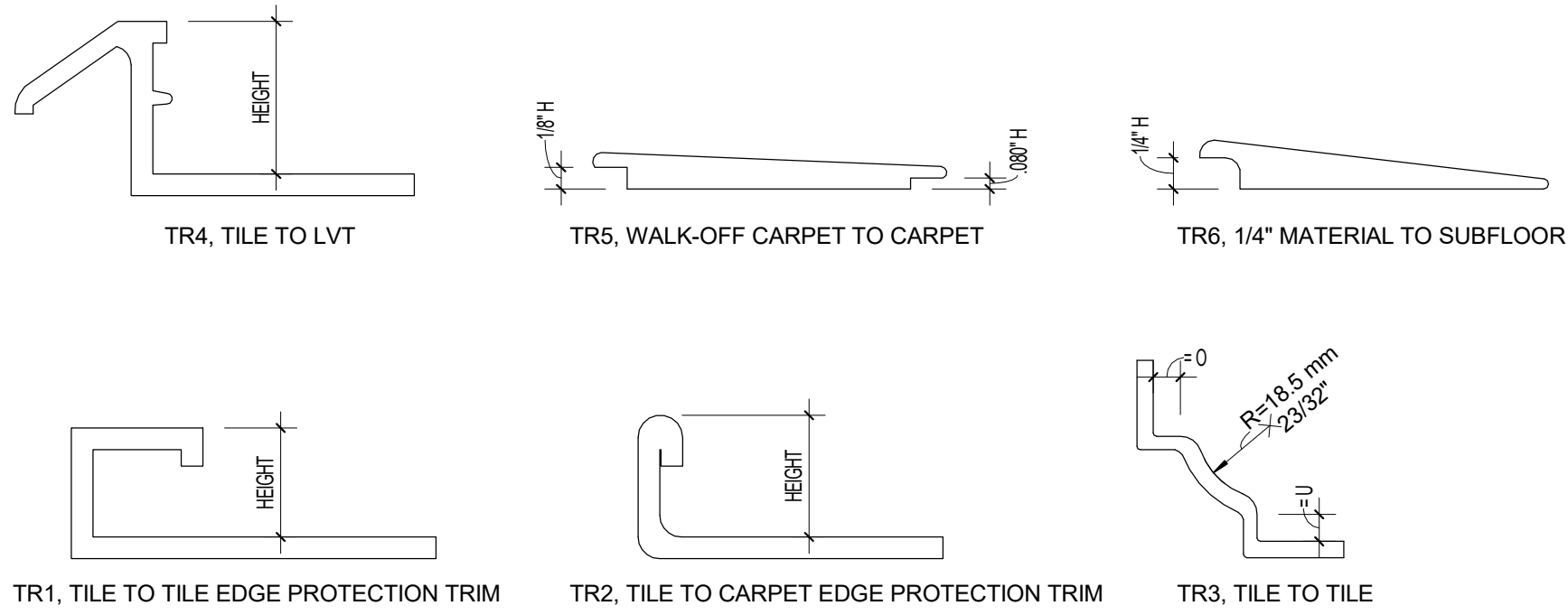
- REFER TO NORTH DIRECTIONAL ARROWS ON PLANS.
- HOLLOW METAL DOORS, FRAMES & INTERIOR WINDOW FRAMES (NEW & EXISTING) SHALL BE PAINTED PT2, UNLESS OTHERWISE NOTED.
- ALL FINISHES IN EXITS SHALL BE CLASS A RATED. ALL FINISHES IN CORRIDORS SHALL BE CLASS A OR CLASS B RATED.
- THE FOLLOWING SHALL BE PAINTED UNLESS OTHERWISE STATED:
 - EXPOSED SPRINKLER PIPING, ELECTRICAL CONDUIT, AND WIRE MOLDS IN FINISHED AREAS.
 - EXPOSED DUCTWORK IN FINISHED AREAS.
 - EXPOSED BEAMS, JOISTS, DECK, AND COLUMNS IN FINISHED AREAS.
 - INTERIOR LINTELS.
 - INTERIOR HANDRAILS & GUARDRAILS.
 - INTERIOR STEEL LADDERS, EP-PT1, TYP.
 - EXPOSED CEILING IN ROOM 227 TO BE PAINTED PT9 ABOVE 11'-7".
- EXPOSED CEILINGS SHALL BE PAINTED PT1, UNLESS OTHERWISE NOTED. REFER TO INTERIOR / FINISH PLANS FOR FLOOR FINISH PATTERNS AND DETAILS.
- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL WALL FINISH INFORMATION.
- CEILING, FLOORS, AND WALLS IN FOOD PREPARATION AND SERVING AREAS SHALL BE WASHABLE.
- PAINT EXPOSED COLUMNS, TO MATCH ADJACENT WALLS, UNLESS OTHERWISE NOTED.
- PAINT PT6 AT ALL EXPOSED SURFACES AND EDGES OF BALCONY AND STAIR GUARD RAIL, HANDRAIL, STRINGERS, AND UNDERSIDE OF TREADS AND RISERS.
- NO EXPOSED RAW TILE EDGES. REFER TO FINISH & MATERIAL LEGEND FOR TRANSITIONS.
- WATERJET CUT LVT FLOORING AT CLASSROOM ENTRANCES AND CHECK-IN FOR SEAMLESS CURVED DESIGN.

INTERIORS COMMENTS

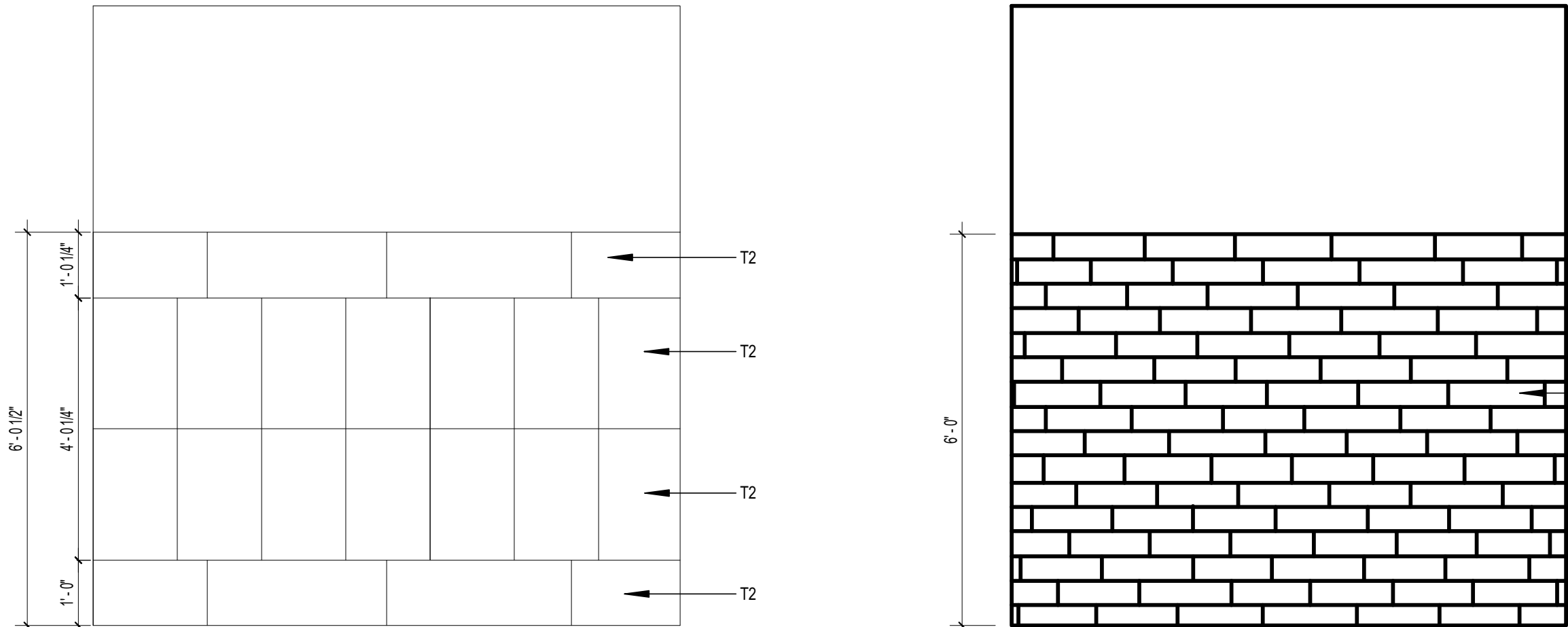
- INSTALL LVT1/4 DROP
- INSTALL CARPET BASKETWEAVE.
- INSTALL CARPET ASHLAR
- INSTALL CARPET BRICK
- INSTALL FLOOR TILE 1/3 OFFSET

FINISH & MATERIAL LEGEND

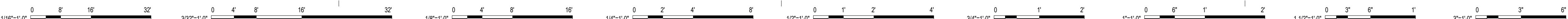
MARK	DESCRIPTION
WALK-OFF CARPET	
WCPT1	MILLIKEN; COLLECTION: OBEX; STYLE: CUT/PIZZ; COLOR: GREY FZC27-173; SIZE: 500M X 500M
CARPET	
CPT1	MANNINGTON; COLLECTION: PAPER; SERIES: CREASED PAPER; COLOR: GRASS 42231; SIZE: 18" x 36"
CPT2	MANNINGTON; COLLECTION: PAPER; SERIES: TORN PAPER; COLOR: LINEN 83228; SIZE: 18" x 36"
CPT3	MOHAWK; COLLECTION: NEW BASICS III TILE - BT400; COLOR: BISCOTTI CRUNCH 837; SIZE: 24" x 24"
CPT4	MILLIKEN; COLLECTION: NORDIC STORIES - TECTONIC; COLOR: CRYSTAL CAVE; SIZE: 25CM X 1M
CPT5	MANNINGTON; COLLECTION: GOOGIE; STYLE: PHENOMENA; COLOR: RETROSCOPE 83636; SIZE: BROADLOOM
RESILIENT FLOORING	
LVT1	MILLIKEN; COLLECTION: THE MAGIC HOUR - PERSPECTIVE; COLOR: AMBIENT; SIZE: 25CM X 1.5M
LVT2	MILLIKEN; COLLECTION: THE MAGIC HOUR - PERSPECTIVE; COLOR: SILHOUETTE; SIZE: 25CM X 1.5M
CONCRETE	
SC1	SEALED CONCRETE; PROSOCCO SINGLE STEP OR EQUAL
TRANSITION STRIPS	
TR1	SCHLUTER; QUADEC; MATERIAL: BRUSHED ALUMINUM; INSTALLATION: INSTALL EDGE PROTECTION AT TOP EDGE OF TILE AND OUTSIDE CORNERS
TR2	SCHLUTER; SCHIENE; MATERIAL: BRUSHED ALUMINUM; INSTALLATION: CARPET AND TILE EDGES
TR3	SCHLUTER; DILEX-EHK; MATERIAL: BRUSHED ALUMINUM; INSTALLATION: INSIDE WALL CORNERS AND WALL TO FLOOR COVE BASE
TR4	SCHLUTER; RENO-TK; MATERIAL: BRUSHED STAINLESS STEEL; INSTALLATION: TILE TO LVT
TR5	TARKETT; JOHNSONITE WHEELED TRAFFIC TRANSITIONS; CTA - 63 - X; COLOR: 63 BURNT UMBER; INSTALLATION: WALK-OFF CARPET TO CARPET
TR6	TARKETT; JOHNSONITE WHEELED TRAFFIC TRANSITIONS; CTA - 63 - JL; COLOR: 63 BURNT UMBER; INSTALLATION: 1/4" MATERIAL TO SUBFLOOR
BASE	
RB1	RUBBER BASE; TARKETT; TRADITIONAL VINYL 4"; COLOR: 63 BURNT UMBER
TILE	
T1	CROSSVILLE; COLOR BLOX 2.0; COLOR: SLUNKY; SIZE: 12" X 24"; FINISH: UNPOLISHED; GROUT: LATICRETE 88 SILVER SHADOW
T2	CROSSVILLE; COLOR BLOX 2.0; COLOR: SANDBOX; SIZE: 12" X 24"; FINISH: UNPOLISHED; GROUT: LATICRETE 88 SILVER SHADOW
T3	CROSSVILLE; COLOR BLOX 2.0; COLOR: SANDBOX; SIZE: 4" x 12"; FINISH: UNPOLISHED; VERIFY WITH MANUFACTURER FOR LEAD TIME; GROUT: LATICRETE 88 SILVER SHADOW
T4	MATCH EXISTING TILE AT UNDER STAIR BENCHES
CEILING	
ACT1	ARMSTRONG; SUSPENDED ACOUSTICAL CEILING, COLOR & STYLE TO MATCH EXISTING; PRELUDE XL 15/16" EXPOSED TEE IN WHITE; GRID COLOR: WHITE
GYP1	GYPSUM BOARD CEILINGS; FINISH WITH LEVEL 4 FINISH, INCLUDING EXPOSED SIDES
PAINT	
PT1	SHERWIN WILLIAMS; COLOR: AGREEABLE GRAY SW7029
PT2	SHERWIN WILLIAMS; COLOR: GRAY MATTERS SW7066
PT3	SHERWIN WILLIAMS; COLOR: COCOON SW6173
PT4	SHERWIN WILLIAMS; COLOR: BLONDE SW6128
PT5	SHERWIN WILLIAMS; COLOR: ROYCROFT VELLUM SW2833
PT6	SHERWIN WILLIAMS; COLOR: TRICORN BLACK SW6258
PLASTIC LAMINATE	
PL1	WILSONART; COLOR: FLORENCE WALNUT 7993-38 FINE VELVET FINISH
SOLID SURFACE	
SS1	WILSONART; COLOR: CHILLED EARTH 9228SS
STAIN	
ST1	MINWAX; COLOR: CARBON MW409
ST2	WOOD STAIN, TO MATCH RVP2 FROM PHASE 3, FINISH WITH CLEAR POLYURETHANE PROTECTIVE COATING, SATIN FINISH



2 TRIM PROFILES
1 1/2" = 1'-0"

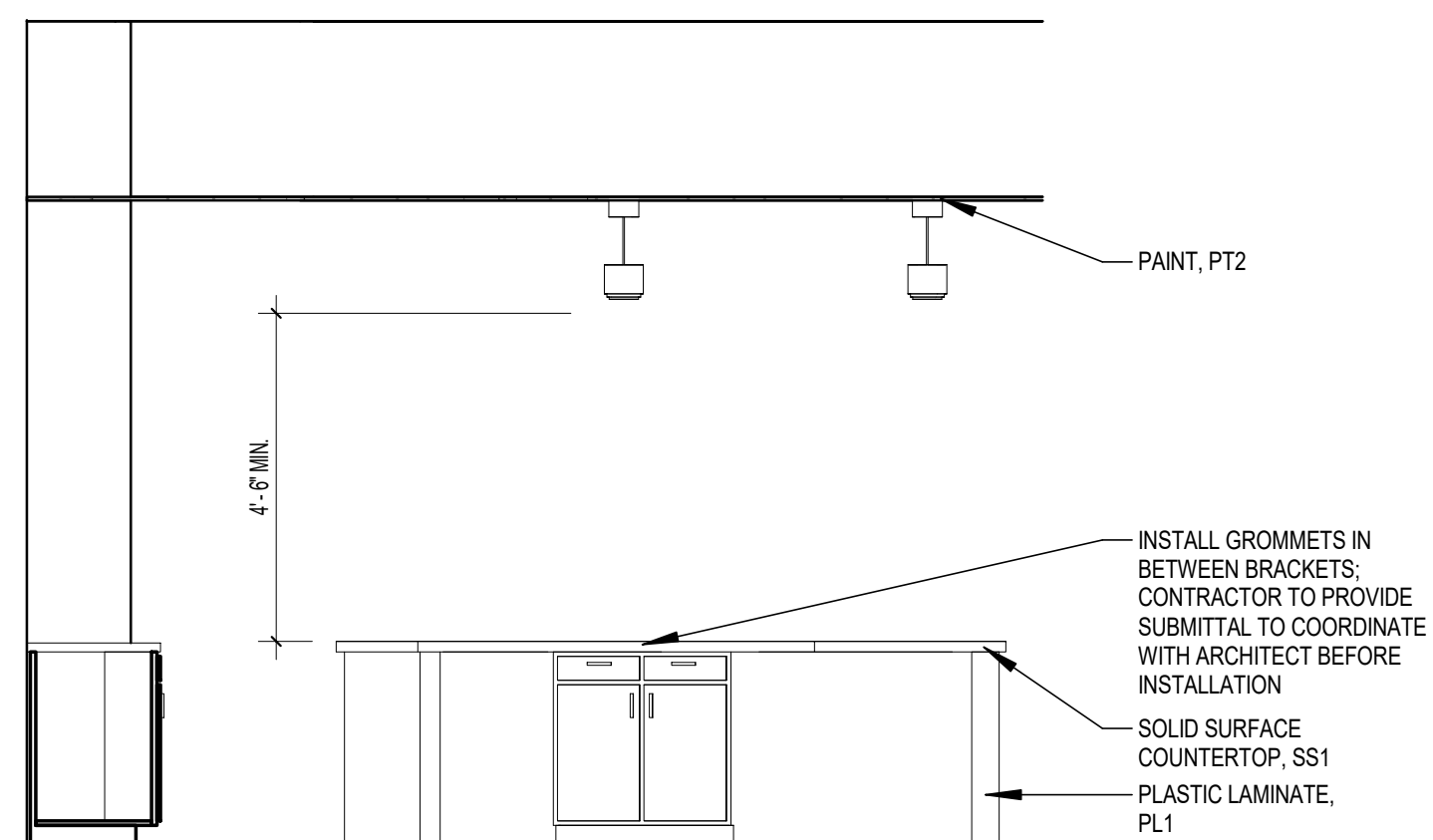


1 WALL TILE PATTERNS
1/2" = 1'-0"

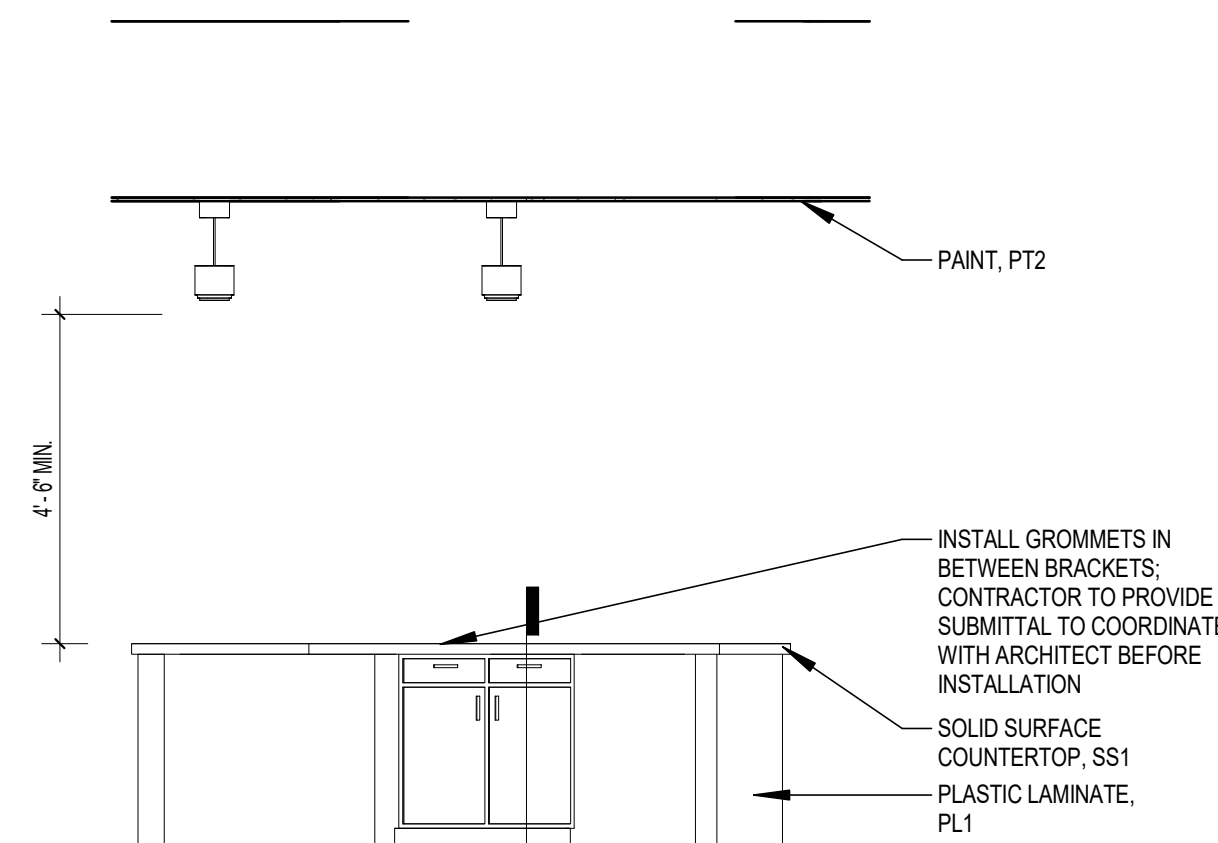


MILLWORK NOTES:

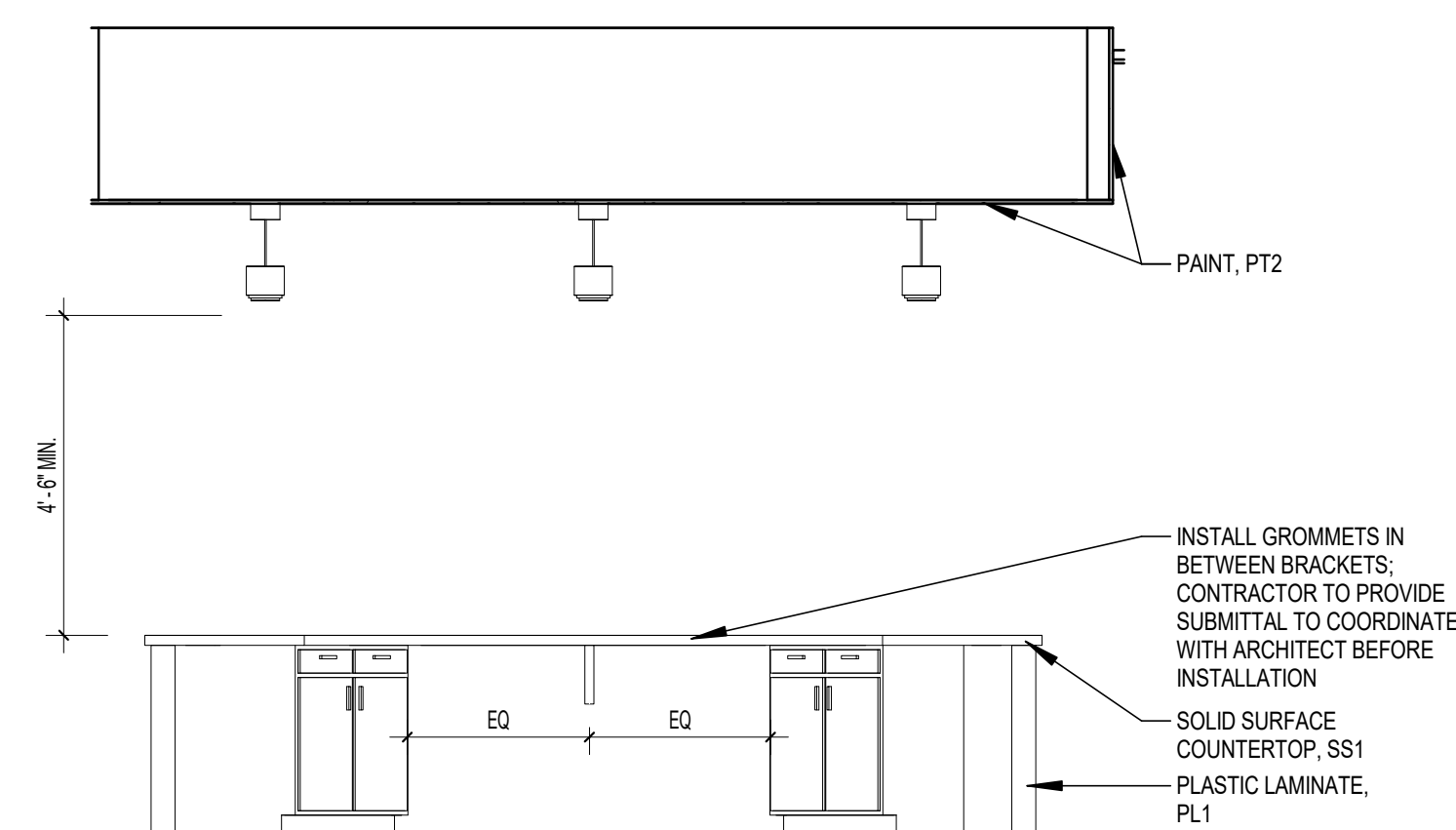
1. PROVIDE BACK SPLASH AT BACK AND SIDES OF ALL BASE CABINETS WHERE A WALL IS PRESENT. PROVIDE WOOD BLOCKING AS REQD. IN WALL FOR ALL MILLWORK ITEMS & MARKER BOARD AND TACK BOARDS - REFER TO SPECIFICATIONS.
2. REFER TO SPECIFICATIONS FOR ALL MILLWORK HARDWARE AND FINISHES.
3. PROVIDE MINIMUM 1-1/2" FILLER PANELS AT CABINETS THAT EXTEND TO WALLS. PROVIDE MINIMUM 2" FILLER PANELS AT CABINETS THAT BUTT INTO PERPENDICULAR CABINETS, TYP.
4. ALL DOORS AND DRAWERS SHALL BE LOOKING UNLESS OTHERWISE NOTED. ROOMS TO BE KEED ALIKE.
5. PROVIDE ONE (1) GROMMET HOLE AND COVER AT COUNTERTOP WHERE EACH OPEN KNEE SPACE OCCURS.



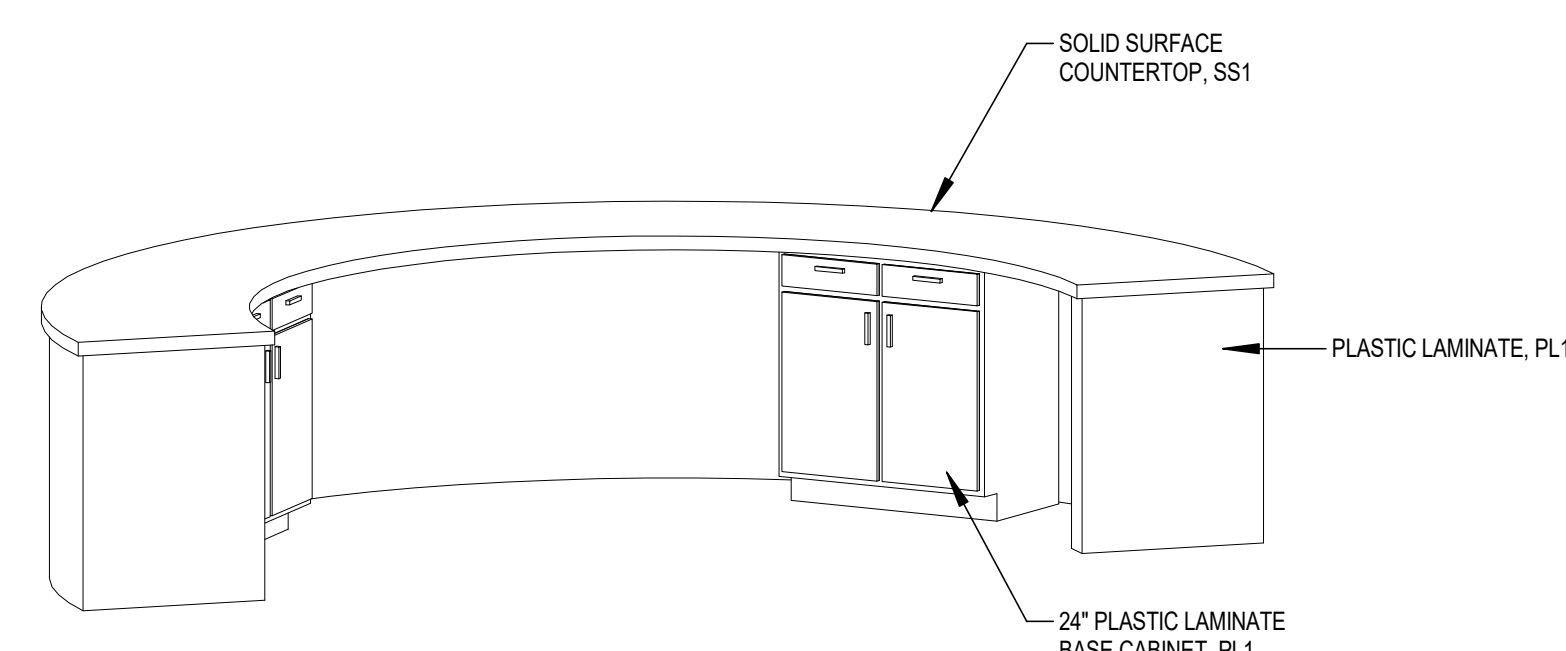
14 CHECK-IN
3/8" = 1'-0"



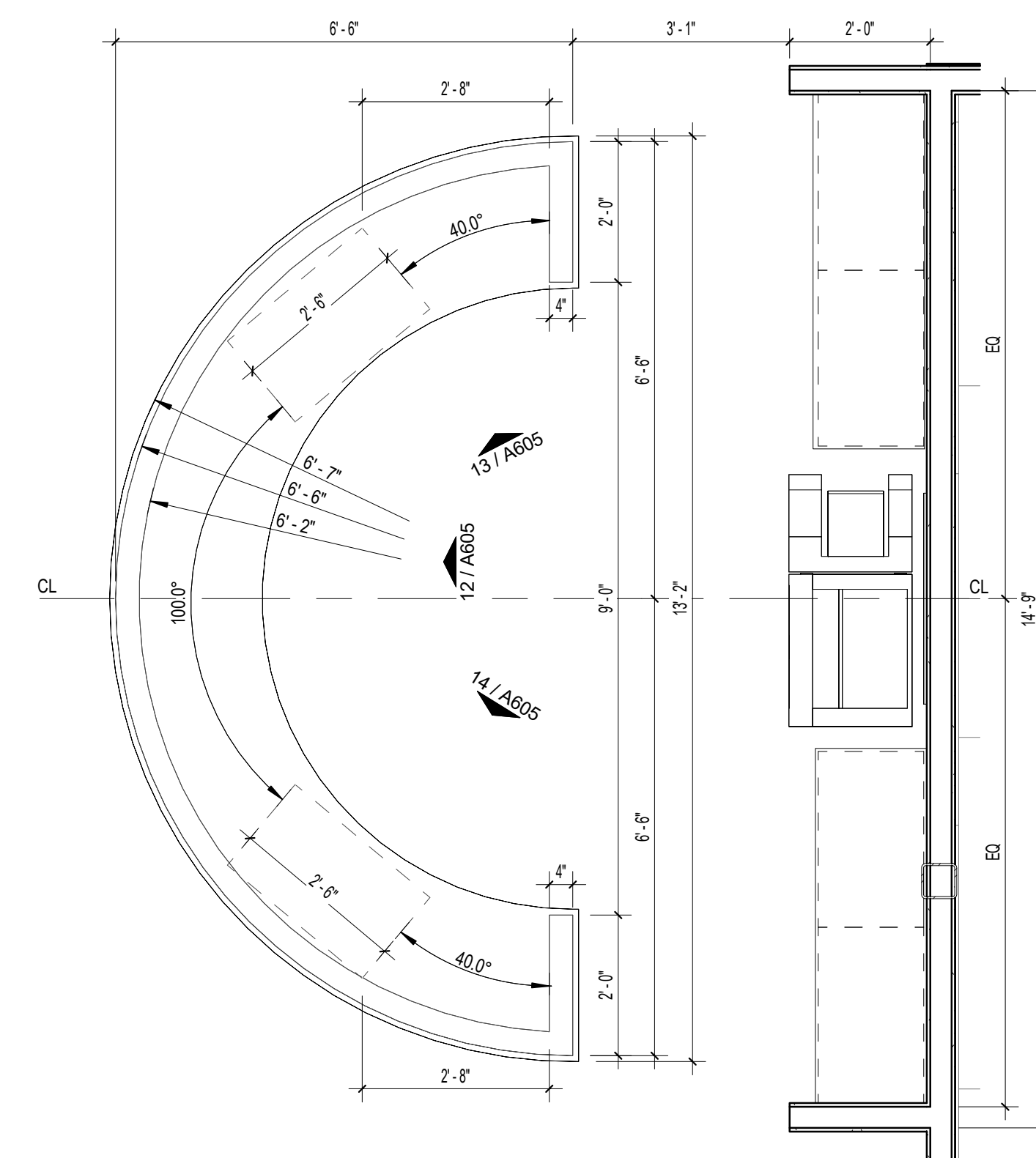
13 CHECK-IN
3/8" = 1'-0"



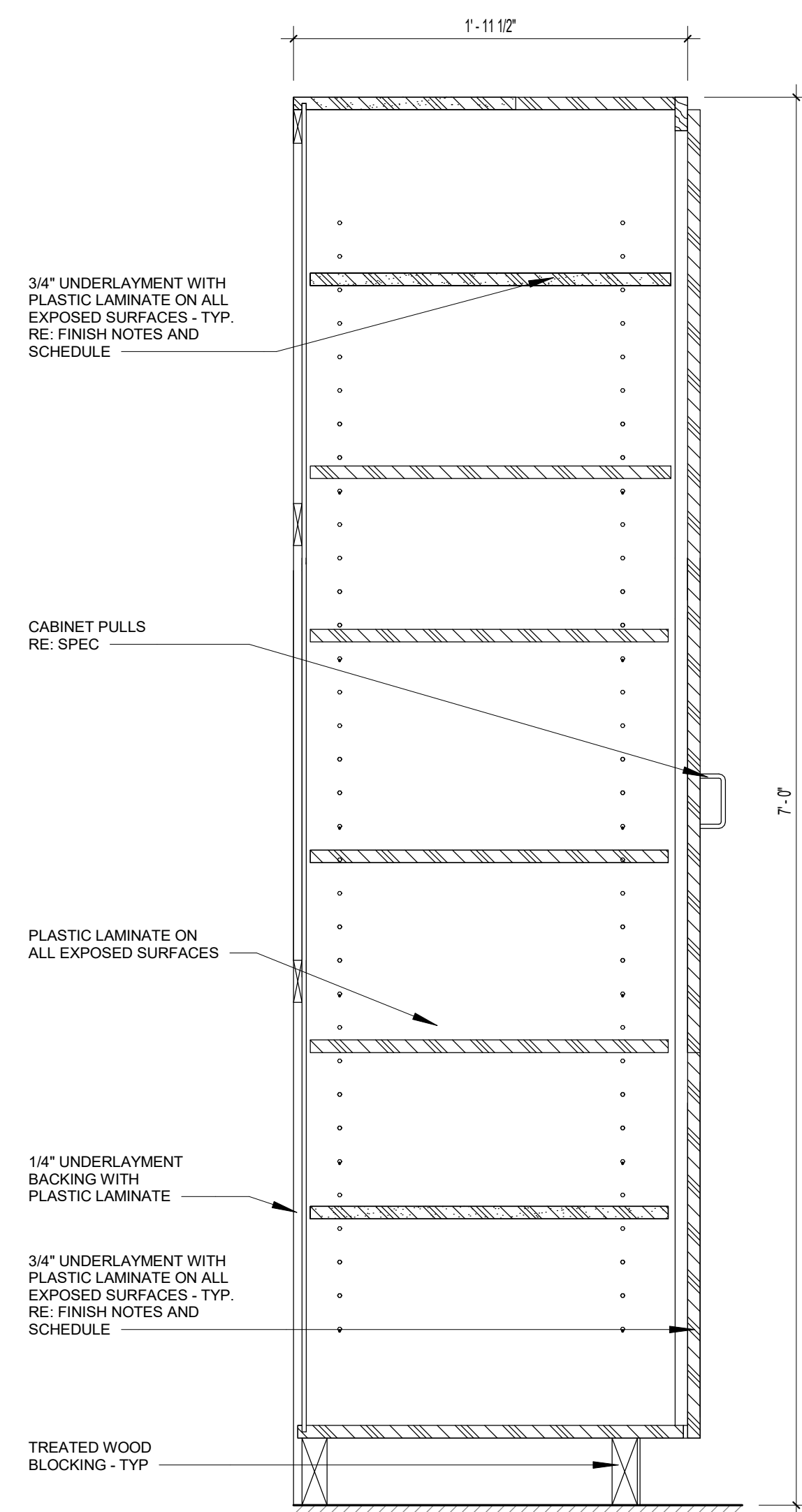
12 CHECK-IN
3/8" = 1'-0"



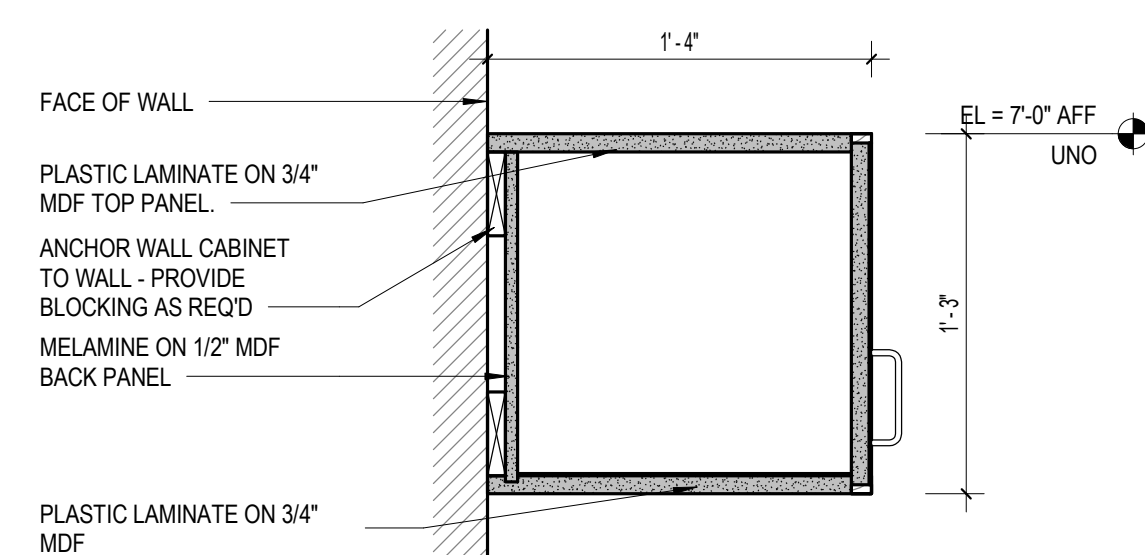
11 3D CHECK-IN PERSPECTIVE



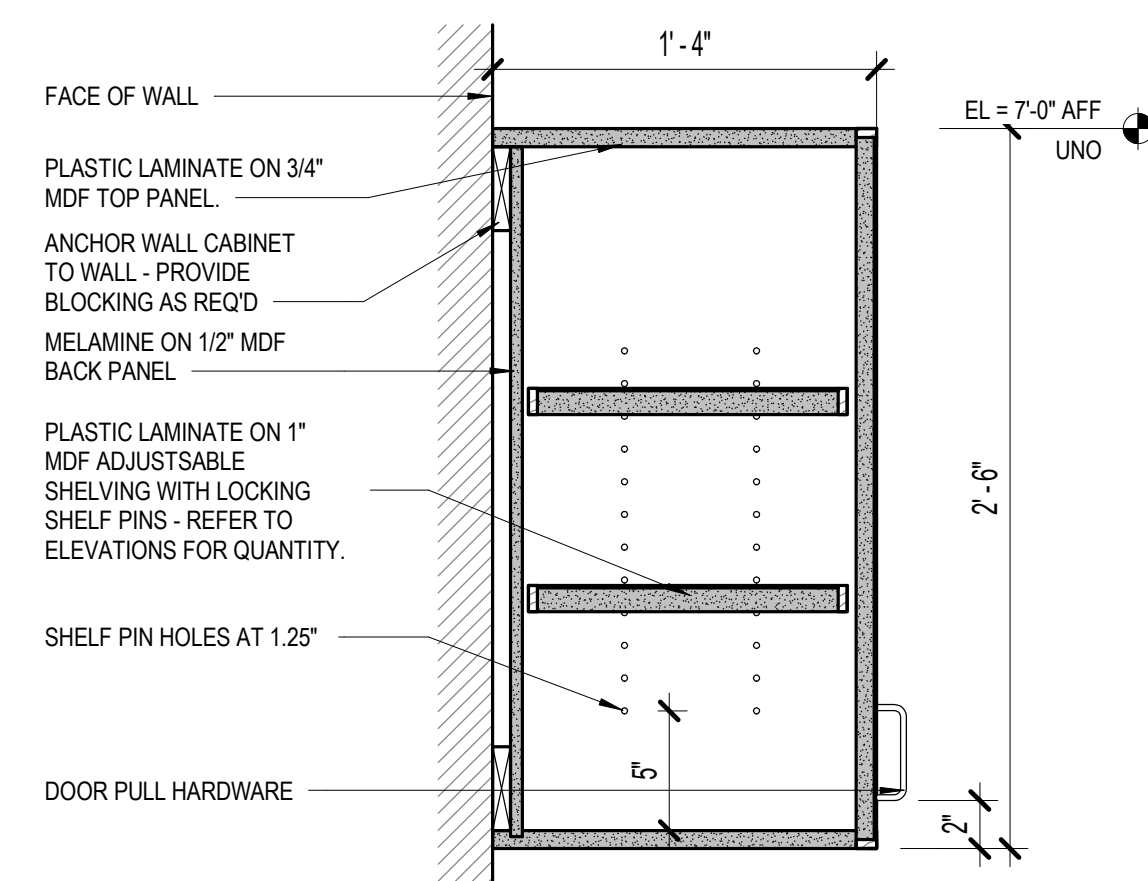
10 105 CHECK-IN - MILLWORK PLAN
1/2" = 1'-0" 1/A101.2



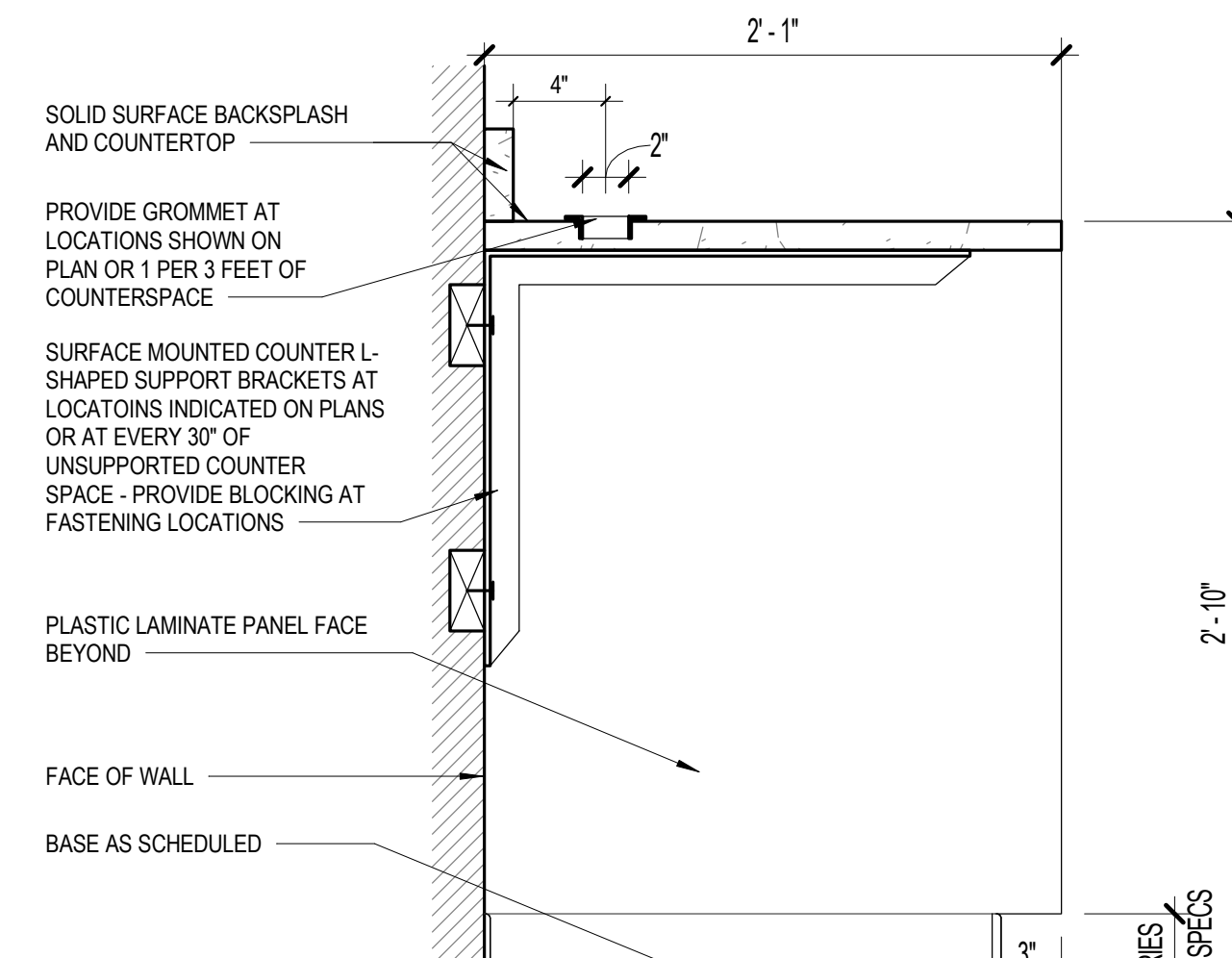
5 MILLWORK SECTION
1 1/2" = 1'-0"



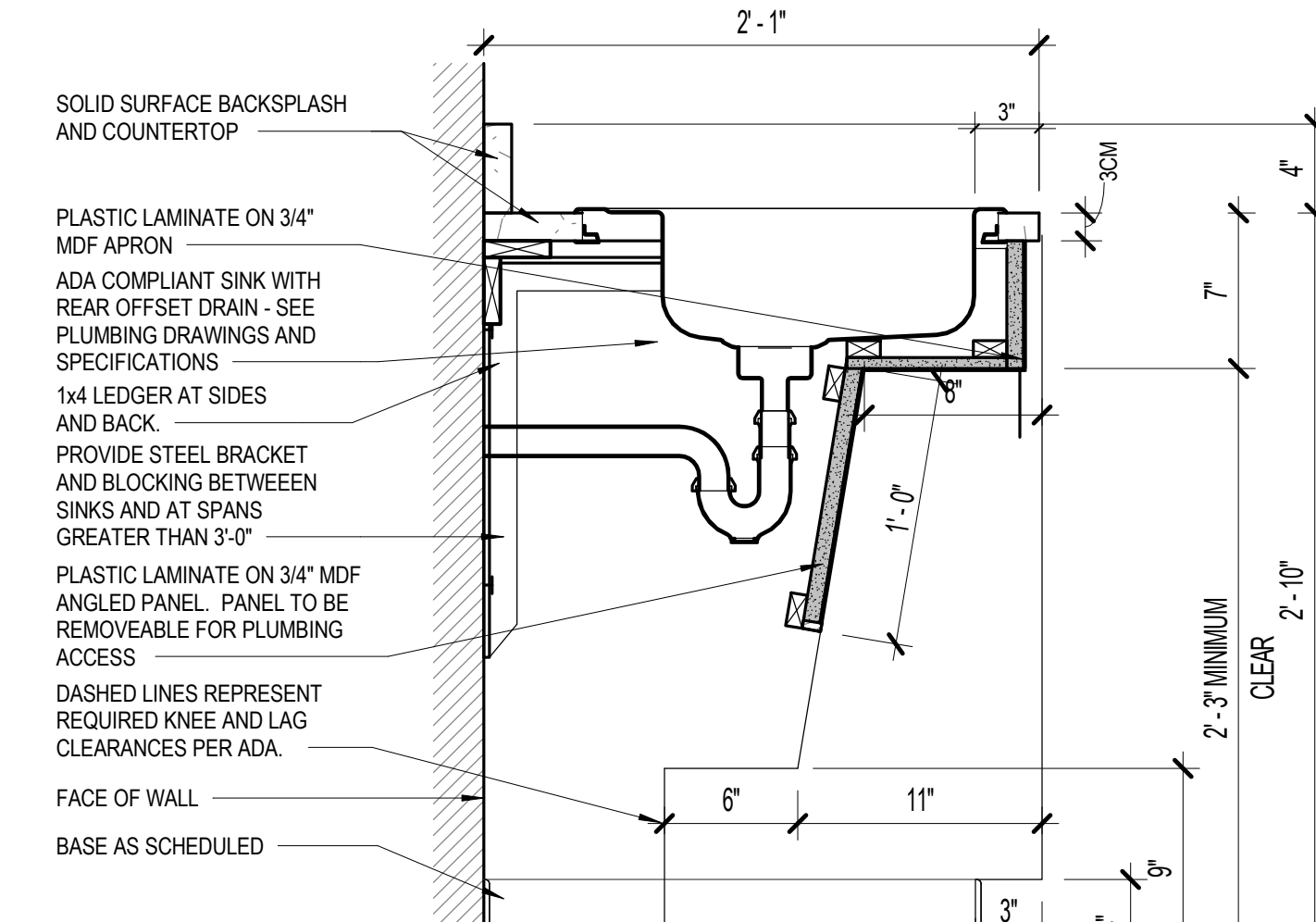
9 MILLWORK SECTION
1 1/2" = 1'-0"



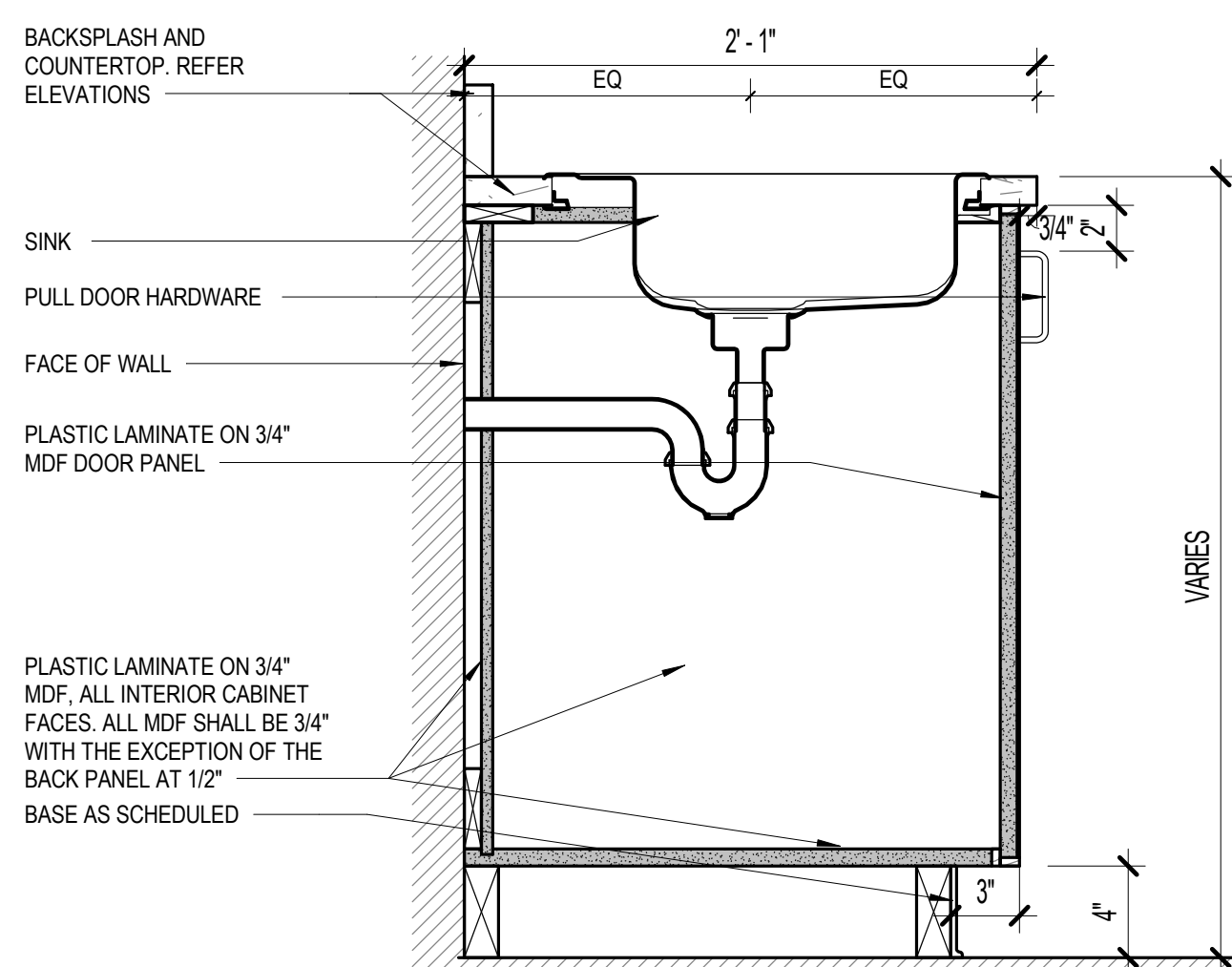
8 MILLWORK SECTION
1 1/2" = 1'-0"



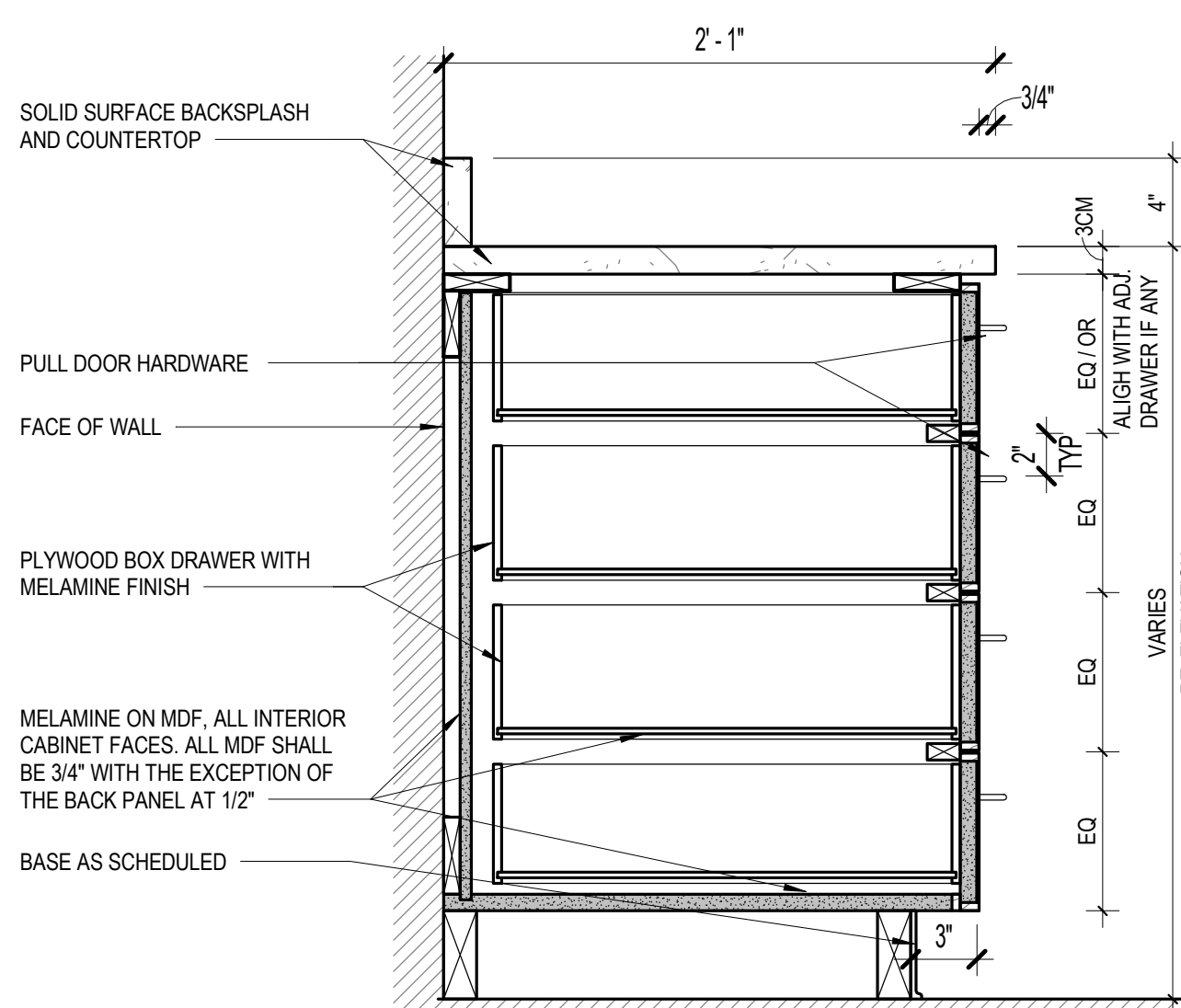
7 MILLWORK SECTION
1 1/2" = 1'-0"



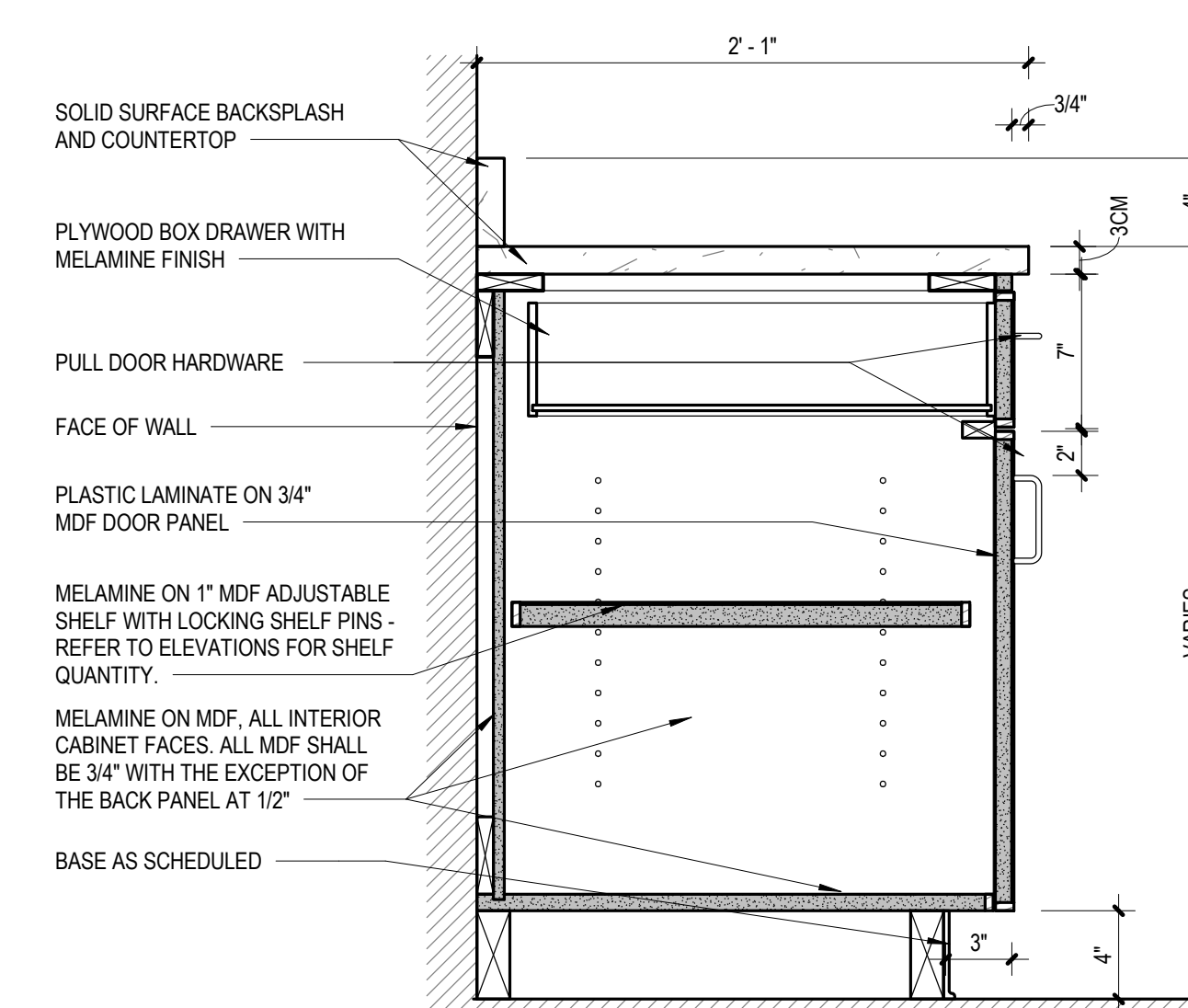
6 MILLWORK SECTION
1 1/2" = 1'-0"



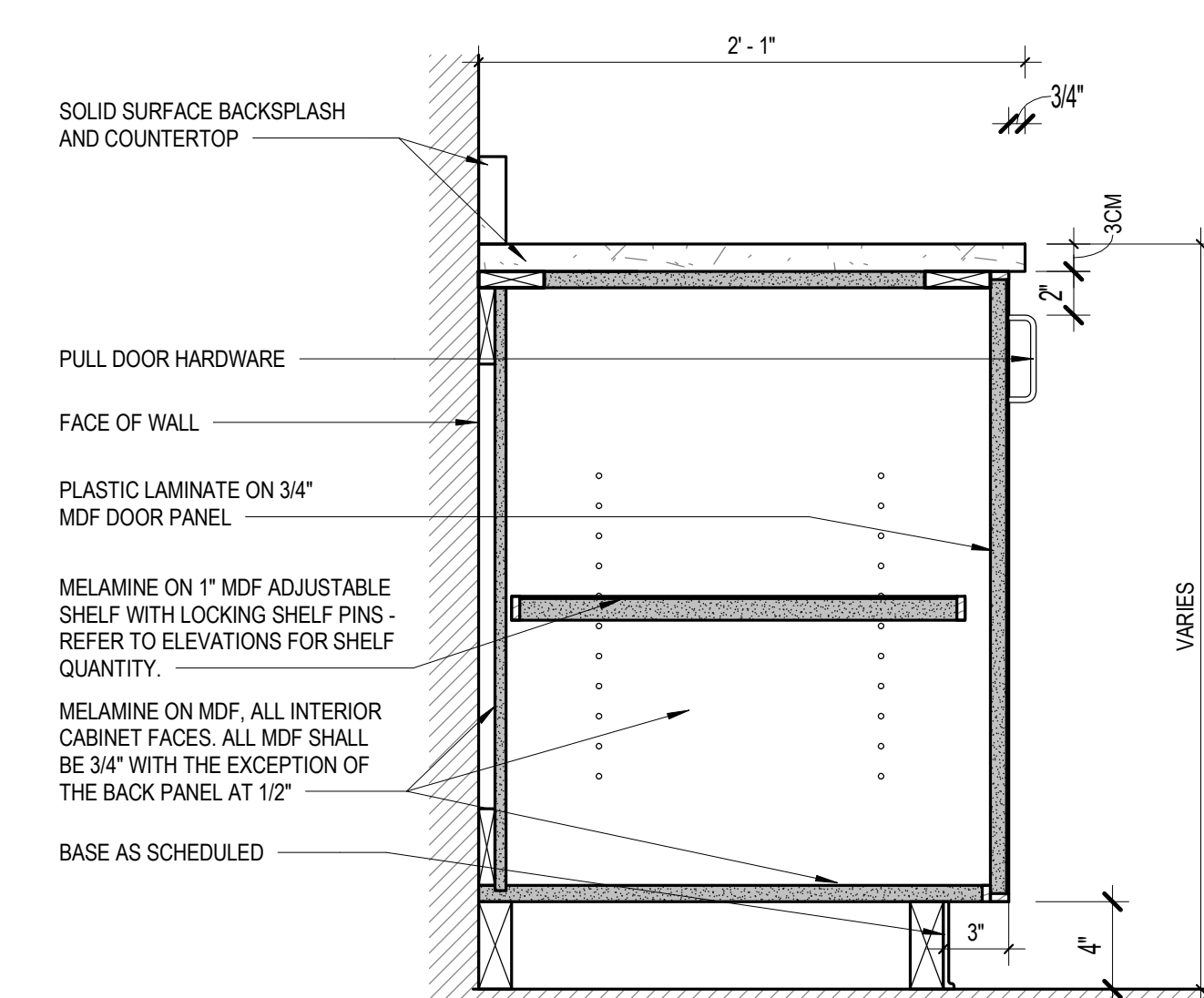
4 MILLWORK SECTION
1 1/2" = 1'-0"



3 MILLWORK SECTION
1 1/2" = 1'-0"



2 MILLWORK SECTION
1 1/2" = 1'-0"

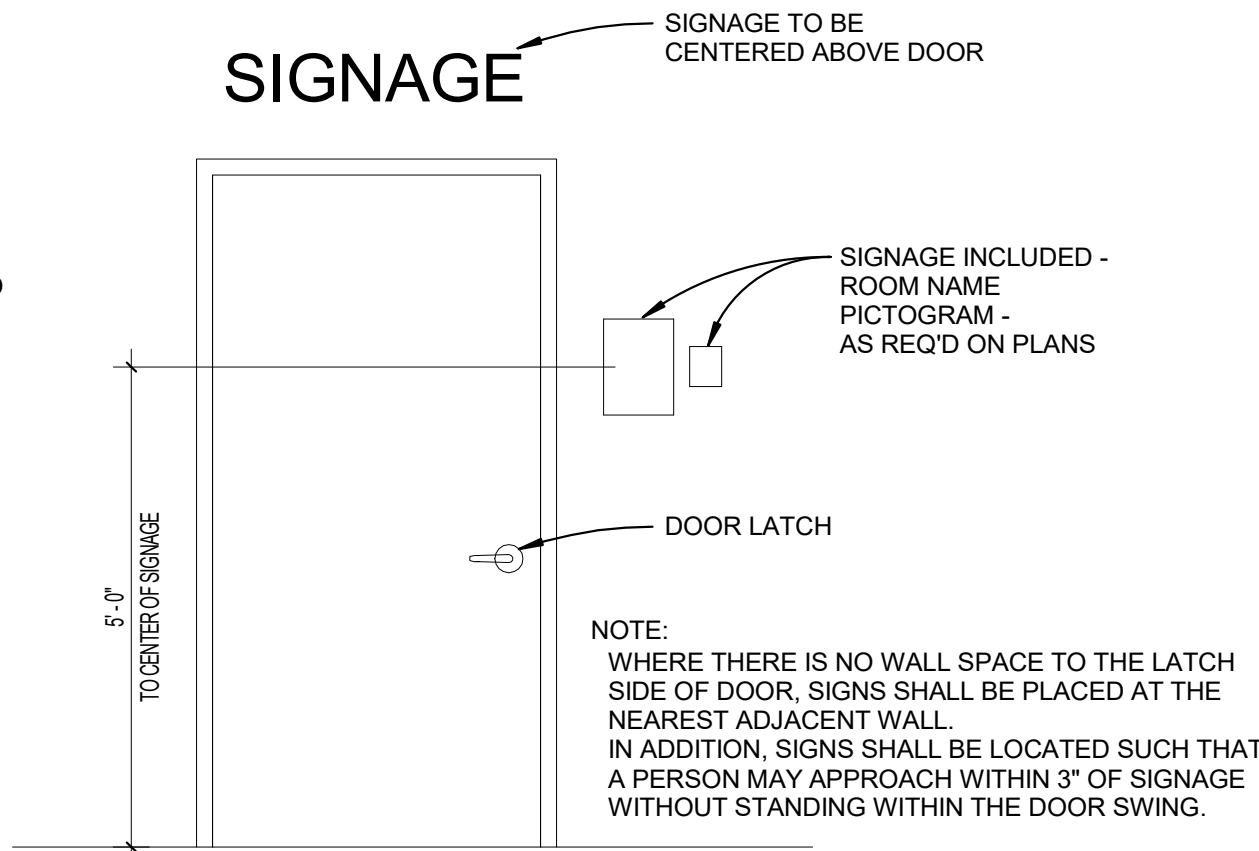


1 MILLWORK SECTION
1 1/2" = 1'-0"

3/4/2025 11:13:49 AM

SIGNAGE NOTES:

- LETTERS AND NUMERALS SHALL HAVE A WIDTH TO HEIGHT RATION OF 3/5 AND A STROKE WIDTH TO HEIGHT RATION BETWEEN 1/5 AND 1/10
- LETTERS AND NUMERALS SHALL BE RAISED 1/32" AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE.
- RAISED CHARACTERS SHALL BE 5/8" U.N.O.
- PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION.
- THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MINIMUM IN HEIGHT.

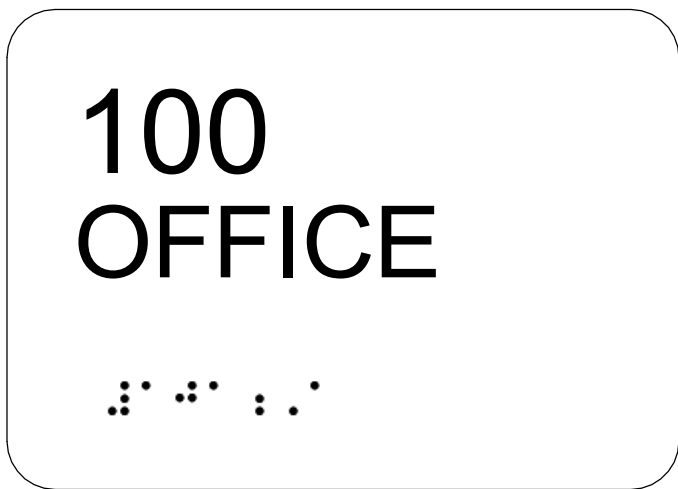


NOTE:
ALL SIGNAGE BY OWNER



SIGN TYPE 2

DESCRIPTION: WORD AND PICTURE SIGN
SIZE: 6" X 9" X 1/8" MATERIAL
CORNER: 1/2" RADIUS
MOUNTING: GLUE MOUNTED
PICTURE: 4" INTERNATIONAL SYMBOL
COPY FONT: CENTURY GOTHIC
ROOM NAME: 7/8"
COPY SIZE: 1/32" FROM SIGN PLATE FACE
BRAILLE: GRADE 2 PLACED DIRECTLY BELOW COPY
COLOR: TO BE SELECTED



SIGN TYPE 1

DESCRIPTION: MESSAGE SIGN
SIZE: 5" X 7" OR 5" 8" (AS REQ'D) X 1/8" MATERIAL
CORNER: 1/2" RADIUS
MOUNTING: GLUE MOUNTED
COPY FONT: CENTURY GOTHIC
ROOM NUMBER: 7/8", ROOM NAME: 3/4"
COPY SIZE: 1/32" FROM SIGN PLATE FACE
BRAILLE: GRADE 2 PLACED DIRECTLY BELOW COPY
COLOR: TO BE SELECTED

FIRE CONTROL ROOM

SIGN TYPE 3

DESCRIPTION: PAINTED LETTERS
MATERIAL: EXTERIOR PAINT
FINISH: WHITE
HEIGHT: 2" MIN.
LETTERSTYLE: ARIAL

TO BE PAINTED ON EXTERIOR SIDE OF DOOR 112.
CENTER LETTERING ON DOOR, 5' - 6" FROM BOTTOM OF DOOR



SIGN TYPE 4

DESCRIPTION: DIMENSIONAL LETTERS
MATERIAL: 1/2" THICK BLACK PVC
FINISH: BRUSHED ALUMINUM LAMINATE (VERTICAL FINISH)
HEIGHT: 12" MIN.
LETTERSTYLE: ARIAL
MOUNTING: STUD MOUNT WITH SPACERS, EQUAL SPACING

SUBMIT SAMPLE FOR APPROVAL
TO BE INSTALLED ON CURVED SOFFIT (105)
TO BE INSTALLED ABOVE DOORS (116, 126, & 201)
CENTER LETTERING ON DOOR, 1'-0" FROM TOP EDGE OF DOOR FRAME

SIGNAGE SCHEDULE

DOOR NUMBER	ROOM NUMBER	ROOM NAME	SIGN TYPE	ACTUAL TEXT ON SIGN	COMMENTS
106	106	CHECK-IN	4	EVERGREEN ACADEMY	OWNER TO PROVIDE FINAL SIGN TEXT
107	107	OFFICE	1		OWNER TO PROVIDE FINAL SIGN TEXT
108	108	OFFICE	1		OWNER TO PROVIDE FINAL SIGN TEXT
109	109	OFFICE	1		OWNER TO PROVIDE FINAL SIGN TEXT
110	110	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
111	111	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
112	112	MECHELEC/FIRE	3	FIRE RISER ROOM	
114.1	114	STORAGE	-		
114.2	114	STORAGE	1	MECHELEC/FIRE	
116.1	116	CORRIDOR	4	GROW	OWNER TO PROVIDE FINAL SIGN TEXT
117	117	TEACHERS WORK ROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
118	118	RESTROOM	2	TOILET	
125	125	COMPUTER LAB	1		OWNER TO PROVIDE FINAL SIGN TEXT
126	126	CORRIDOR	4	LEARN	OWNER TO PROVIDE FINAL SIGN TEXT
127	127	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
128	128	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
129	129	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
130	130	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
201	201	GALLERY BALCONY	4	ACADEMY	
204	204	OFFICE	1		OWNER TO PROVIDE FINAL SIGN TEXT
205	205	OFFICE	1		OWNER TO PROVIDE FINAL SIGN TEXT
206	206	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
207	207	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
208	208	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
209	209	MECH	1	MECHELEC	
218	218	TEACHERS WORK ROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
219	219	RESTROOM	2	TOILET	
226.1	226	SCIENCE LAB	1		OWNER TO PROVIDE FINAL SIGN TEXT
226.2	226	SCIENCE LAB	1		OWNER TO PROVIDE FINAL SIGN TEXT
228	228	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
229	229	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT
230	230	CLASSROOM	1		OWNER TO PROVIDE FINAL SIGN TEXT

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Reference Cover Sheet
for Consultant Directory

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DOCUMENTS
03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

SIGNAGE

JOB: 2023.14

ISSUE: 03.03.2025

DRAWN BY: BG

CHKD BY: SE

A701

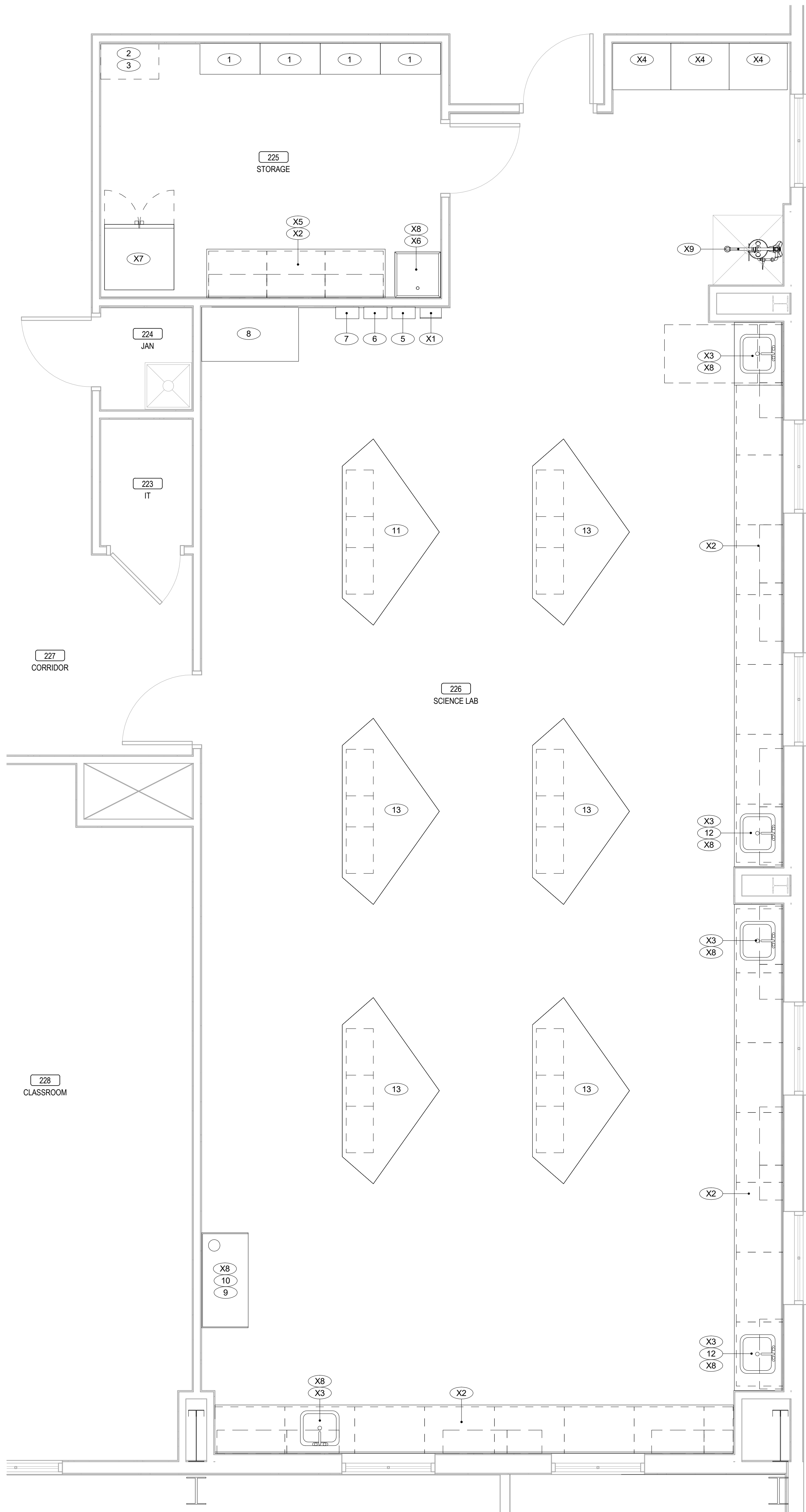
SCALE: As indicated

3/3/2025

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LAB EQUIPMENT SCHEDULE	
MARK	NOTE
FLINN SCIENTIFIC, INC.	
1	CHEMICAL SHELVING UNIT: (SE8010) - 31" W x 72 1/2" H x 16" D
2	STACKING ACID CABINET: (SE8081)
3	STACKING FLAMMABLE CABINET: (SE8079)
5	FIRE BLANKET CABINET: (SE3006)
6	SPELL CONTROL CENTER: (AP6448)
7	FIRST AID KIT: (SE1082)
8	MOBILE DEMONSTRATION TABLE: (NO SINK/MIRROR) (AP8732)
9	48" FUME HOOD: (SE9000)(WATER/GASELECTRIC)
10	48" FUME HOOD BASE CABINET: (SE9003)
11	COMBINATION ADA CLASSROOM LAB STATION - 86"W x 52"D x 34"H (NO SINK/WATER/GAS); (AP7882)
12	FAUCET MOUNTED EYEWASH
13	COMBINATION CLASSROOM LAB STATION - 96"W x 52"D x 36"H (NO SINK/WATER/GAS); (AP8206)
OWNER/CONTRACTOR PROVIDED	
X1	ABC FIRE EXTINGUISHER CABINET
X2	BASE CABINETS W/ COUNTERTOPS
X3	LAB SINK
X4	STORAGE CABINET: 30" W x 84" H x 24" D
X5	UPPER CABINETS
X6	UTILITY SINK
X7	REFRIGERATOR
X8	DILUTION TANK (UNDER SINK)
X9	EMERGENCY ADA SHOWER/EYEWASH STATION
NOTE: PROPOSED LAB DESIGN AND EQUIPMENT LAYOUT BASED OFF OF CORDINATION WITH FLINN SCIENTIFIC INC. FINAL DESIGN, EQUIPMENT NUMBERS AND EQUIPMENT LAYOUT TO BE APPROVED WITH OWNER AND COORDINATED WITH ARCHITECT AND FLINN SCIENTIFIC INC. OR APPROVED EQUAL BEFORE ORDER AND INSTALLATION OF EQUIPMENT.	
CONTACT: GREGORY OHSYON (LABORATORY DESIGN/SAFETY SPECIALIST) 903-432-1201 GCHYSON@FLINNSCI.COM	



1 SCIENCE LAB EQUIPMENT PLAN
3/8" = 1'-0"

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EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 11TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

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ENLARGED EQUIPMENT PLAN

JOB: 2023.14
ISSUE: 03.03.2025
DRAWN BY: BG
CHKD BY: SE

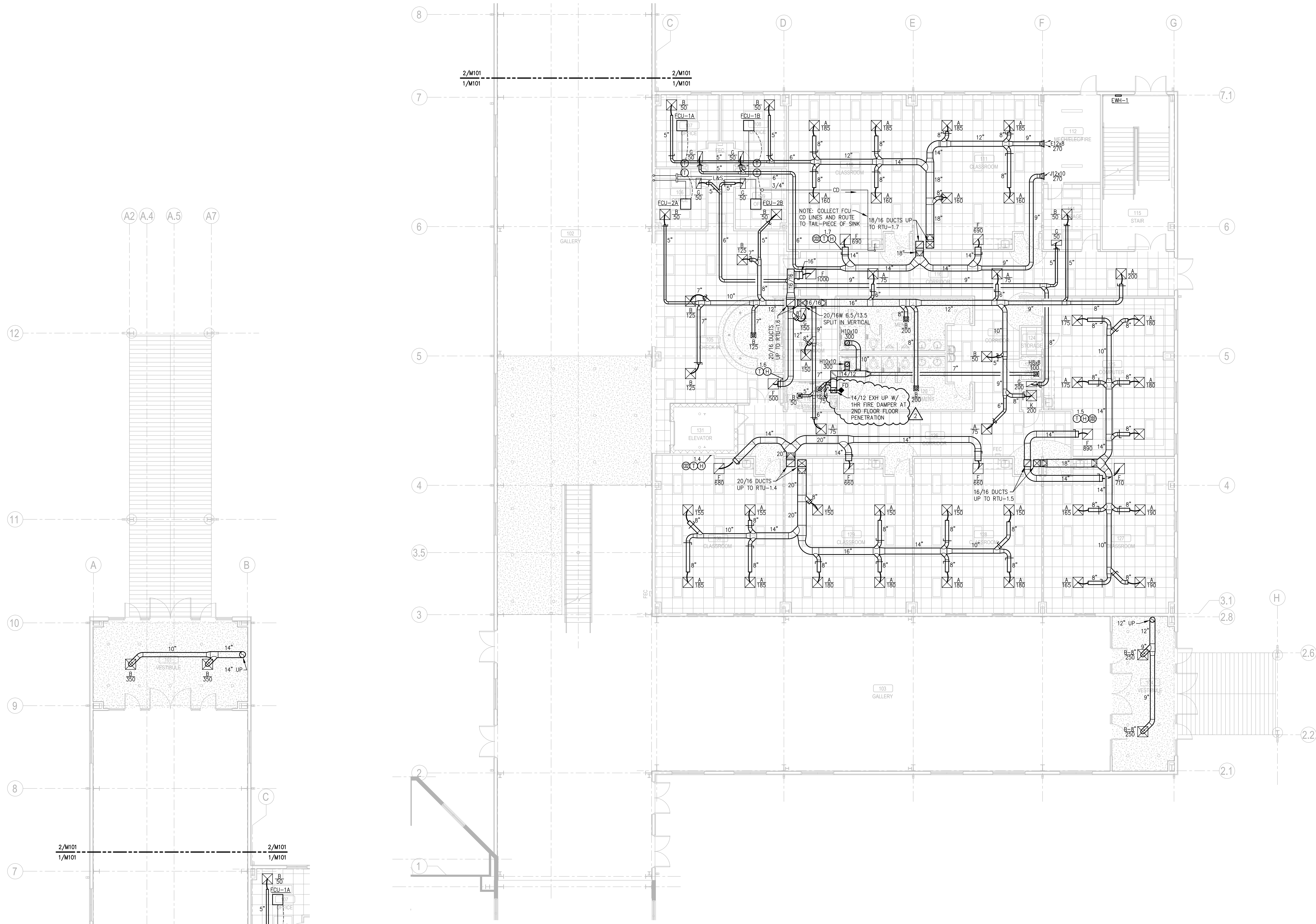
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SCALE: 3/8" = 1'-0"

NOT FOR
CONSTRUCTION

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2 1ST FLOOR CANOPY HVAC PLAN

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

1 1ST FLOOR HVAC PLAN

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

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03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

#	DATE	DESCRIPTION
1	03/14/2025	CITY COMMENTS
2	04/10/2025	REVISION #2

MECHANICAL 1ST FLOOR
HVAC PLAN

AARON BROGDON, PE
OK LICENSE NO. 23990
V2 ENGINEERING, LLC
OK CA #7856

JOB 2023.14

ISSUE 03.03.2025

DRAWN BY:

CHKD BY:

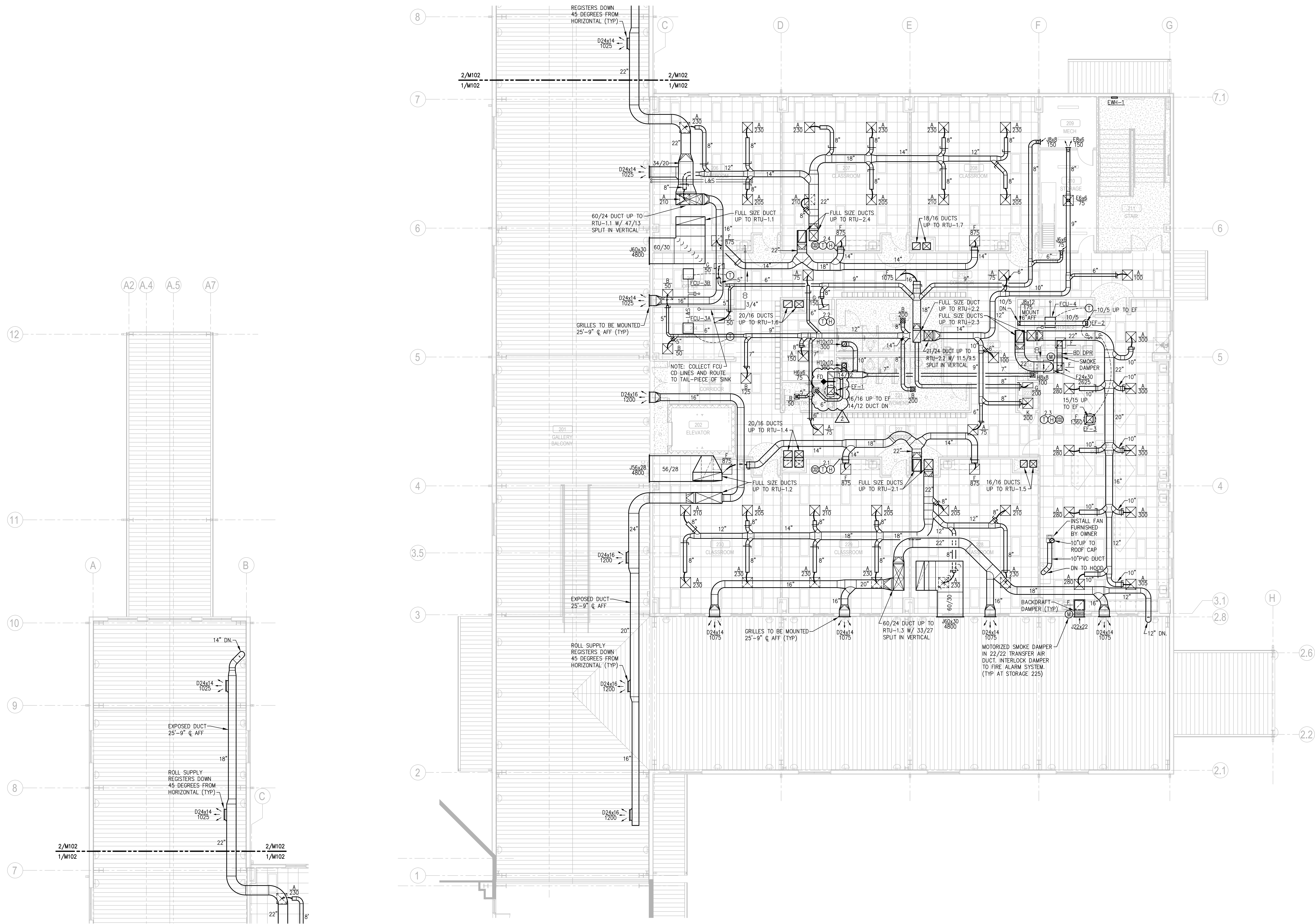
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SCALE

4-10-25

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03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

MECHANICAL ROOF
HVAC PLAN

AARON BROGDON, PE
OK LICENSE NO. 23990
V2 ENGINEERING, LLC
OK, CA #7856

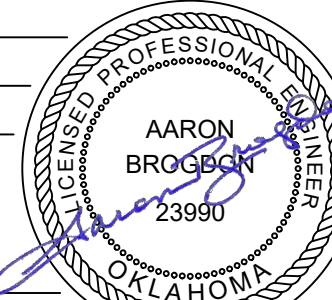
JOB 2023.14
ISSUE 03.03.2025

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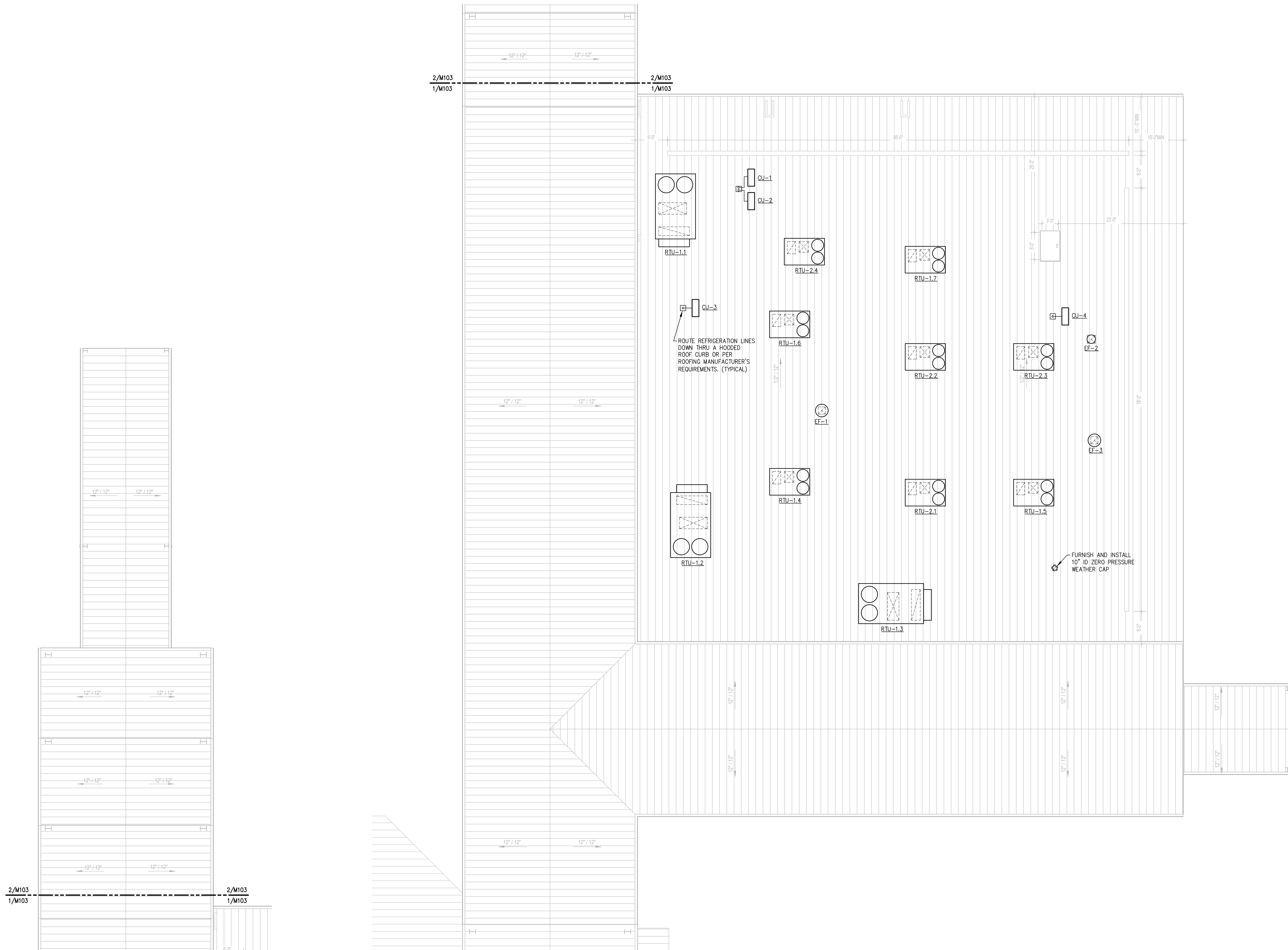
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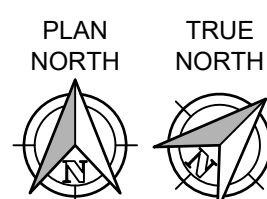


3-3-25



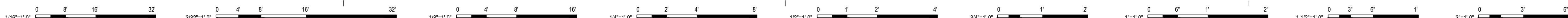
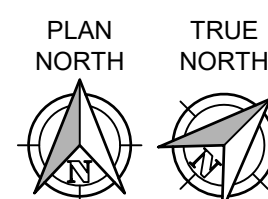
2 ROOF CANOPY HVAC PLAN

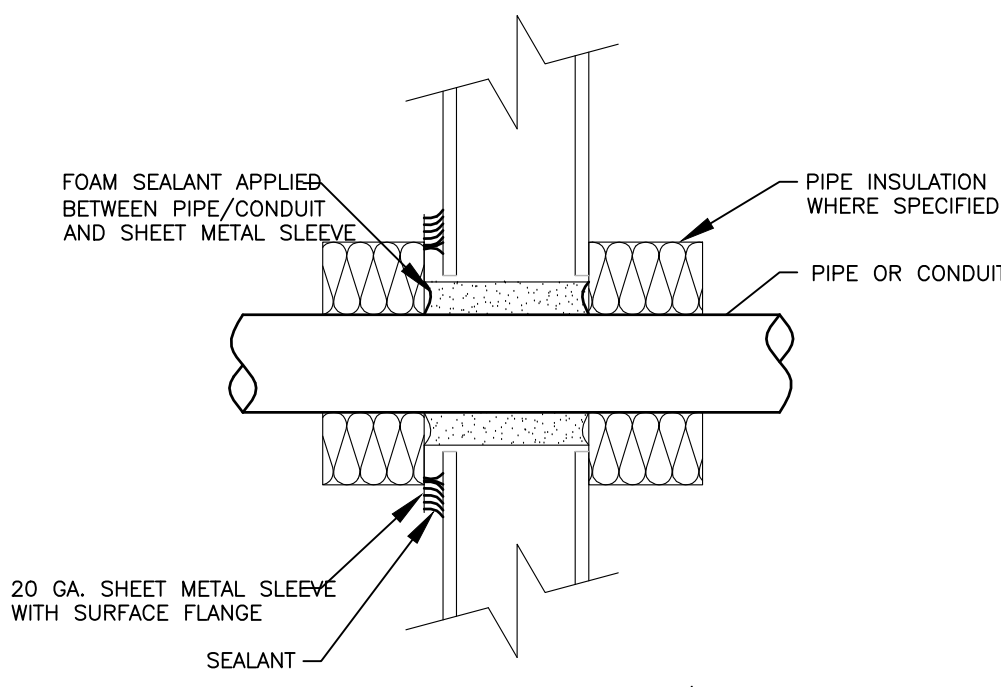
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1 ROOF HVAC PLAN

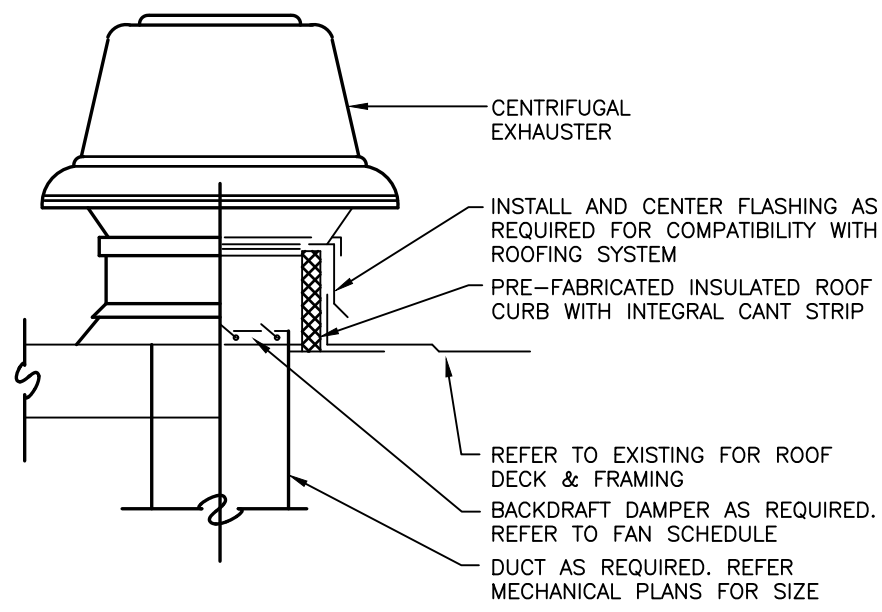
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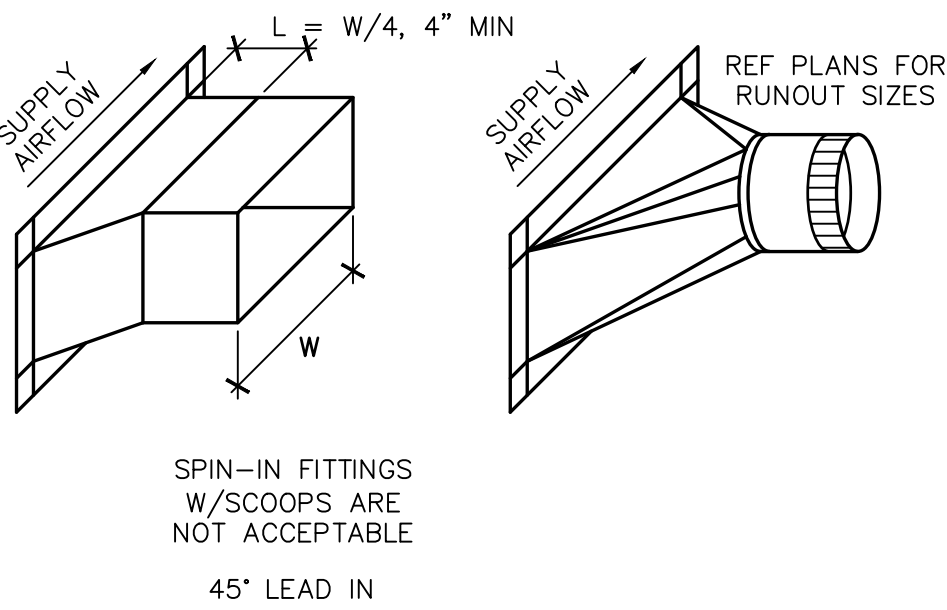
NON-RATED EXTERIOR WALL PIPE PENETRATION

NOT TO SCALE



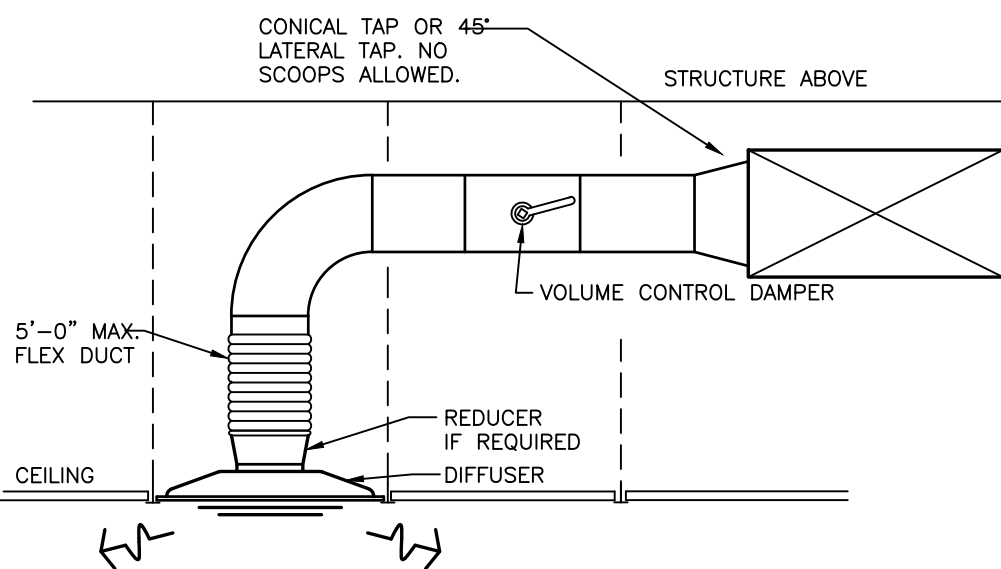
ROOF EXHAUST FAN

NOT TO SCALE



DUCT TAP DETAIL

NOT TO SCALE



- USE FLEX DUCT IN VERTICAL POSITION ONLY.
- PROVIDE AIRTIGHT CONNECTIONS TO RIGID ROUND DUCT AND AIR DEVICE.
- USE ONLY IN AREAS WITH AN ACCESSIBLE CEILING.

BRANCH DUCT DETAIL

NOT TO SCALE

ROOFTOP UNIT SCHEDULE

MARK	AREA SERVED	MFG	MODEL NO.	CFM	OUTSIDE AIR (CFM)	TOTAL E.S.P. (WG)	FAN (H.P.)	CLG CAPACITY		HEATING CAPACITY		ELECTRICAL DATA			EER (SEER)	WEIGHT (LBS)	NOTES	ACCESSORIES
								TOTAL (MBH)	NET SENSIBLE (MBH)	TOTAL INPUT (MBH)	OUTPUT (MBH)	M.C.A.	M.O.P.	VOLTAGE				
RTU-1.1	GALLERY 101 NORTH	YORK	AW15N3BQ4U1ARA65B3	4,800	1,000	.8	2	165.3	116.0	400	324	45.9	60	460/3	12.0	2,882	1,2,3,4	A,B,C,E,F,G,H,J,K
RTU-1.2	GALLERY 101 SOUTH	YORK	AW15N3BQ4U1ARA65B3	4,800	1,000	.8	2	165.3	116.0	400	324	45.9	60	460/3	12.0	2,882	1,2,3,4	A,B,C,E,F,G,H,J,K
RTU-1.3	GALLERY 103	YORK	AW15N3BQ4U1ARA65B3	4,800	1,000	.8	2	165.3	116.0	400	324	45.9	60	460/3	12.0	2,882	1,2,3,4	A,B,C,E,F,G,H,J,K
RTU-1.4	CLASSROOMS 128-130	YORK	ZT061N12P4B1EAE1A2	2,000	400*	.8	1.5	59.8	40.9	120	97	14.6	20	460/3	13.0	1,095	1,2,3,4	A,B,C,E,F,G,H,J,K
RTU-1.5	CLASSROOMS 125,127	YORK	ZT049N08R4B1EAE1A2	1,600	280*	.8	1.5	49.3	33.3	80	65	13.6	20	460/3	(17.5)	1,095	1,2,3,4	A,B,C,E,F,G,J,K
RTU-1.6	CORE AREA 105	YORK	ZT061N12P4B1EAE1A2	2,000	350	.8	1.5	59.8	40.9	120	97	14.6	20	460/3	13.0	1,095	1,2,3,4	A,B,C,E,F,G,H,J,K
RTU-1.7	CLASSROOMS 110,111	YORK	ZT061N12P4B1EAE1A2	1,750	350*	.8	1.5	58.3	38.9	120	97	14.6	20	460/3	13.0	1,095	1,2,3,4	A,B,C,E,F,G,H,J,K
RTU-2.1	CLASSROOMS 228-230	YORK	ZT090N18R4B1EAE1A2	2,625	525*	.8	3	82.2	55.6	180	146	24.8	30	460/3	13.1	1,488	1,2,3,4	A,B,C,E,F,G,H,J,K
RTU-2.2	CORE AREA 205	YORK	ZT061N12P4B1EAE1A2	1,750	350	.8	1.5	58.3	38.9	120	97	14.6	20	460/3	13.0	1,095	1,2,3,4	A,B,C,E,F,G,H,J,K
RTU-2.3	CLASSROOM 226	YORK	ZT090N18R4B1EAE1A2	2,625	525*	.8	3	82.2	55.6	180	146	24.8	30	460/3	13.1	1,488	1,2,3,4	A,B,C,E,F,G,H,J,K
RTU-2.4	CLASSROOMS 208,210,211	YORK	ZT090N18R4B1EAE1A2	2,625	525*	.8	3	82.2	55.6	180	146	24.8	30	460/3	13.1	1,488	1,2,3,4	A,B,C,E,F,G,H,J,K

NOTES:
1. EQUIPMENT AND CURB GASKETS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
2. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE WET COOLING COIL, AIR FILTER AND HEAT EXCHANGER.
3. GROSS COOLING CAPACITIES ARE BASED ON ACTUAL ENTERING AIR CONDITIONS AND 105 DEG F AMBIENT. EER IS BASED ON ARI CONDITIONS.
4. FACTORY CONDENSER HAIL GUARD.
5. MANUAL OUTSIDE AIR DAMPER.
6. ECONOMIZER WITH ENTHALPY CONTROL.
7. POWERED EXHAUST.
8. DISCONNECT SWITCH AND CONVENIENCE OUTLET FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
9. RETURN AIR SMOKE DETECTOR.
10. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT EQUAL TO HONEYWELL T7351.
11. PROVIDE CONDENSATE WATER LEVEL MONITORING DEVICE IN EQUIPMENT DRAIN PAN TO SHUT UNIT OFF IF DRAIN BECOMES CLOGGED.

* DENOTES DEMAND CONTROL VENTILATION. PROVIDE UNIT WITH CO2 CONTROLS. IN THE EVENT CO2 LEVELS RISE TO 1000 PPM, THE CO2 SENSOR SHALL OVERRIDE THE OUTSIDE AIR DAMPER AND THE ROOFTOP UNIT ECONOMIZER SHALL MODULATE TO DECREASE CO2 LEVELS.

MECHANICAL SYMBOLS

AFF	ABOVE FINISH FLOOR
CD	CONDENSATE DRAIN
DN	DOWN
EF	EXHAUST FAN
L&S	REFRIGERANT LINES
S/A	SUPPLY AIR
R/A	RETURN AIR
O/A	OUTSIDE AIR
E/A	EXHAUST AIR
N.I.C.	NOT IN CONTRACT
U.C.	UNDERCUT DOOR, RE: ARCH
12"	12" DIAMETER ROUND DUCT
18/12	RECTANGULAR DUCT 18" WIDE BY 12" DEEP
☒	SUPPLY AIR
☑	RETURN AIR
☒	EXHAUST AIR
☒	ELBOW WITH TURNING VANES
☒	TEE WITH TURNING VANES
☒	MANUAL VOLUME DAMPER
☒ / ☒ / ☒	THERMOSTAT/HUMIDISTAT/CO2 SENSOR
RTU-XX	EQUIPMENT NO.

GRILLES, REGISTERS, & DIFFUSERS SCHEDULE

MARK	SERVICE	TYPE	MANUFACTURER	MODEL	CONSTRUCTION	FACE SIZE	NECK SIZE	FINISH	MOUNTING	REMARKS
A	SUPPLY	CEILING	TITUS	TMS	STEEL	24x24	----	WHITE	LAY-IN	1,2
B	SUPPLY	CEILING	TITUS	TMS	STEEL	12x12	----	WHITE	SURFACE	1,2,4
C	SUPPLY	CEILING	TITUS	TMS	STEEL	24x24	----	WHITE	SURFACE	1,2,4
D	SUPPLY	SIDEWALL	TITUS	272RS	STEEL	----	----	WHITE	SURFACE	4
E	SUPPLY	SIDEWALL	TITUS	300RS	STEEL	----	----	WHITE	SURFACE	4
F	RETURN	CEILING	TITUS	50F	STEEL	24x24	22x22	WHITE	LAY-IN	3
G	RETURN	CEILING	TITUS	50F	STEEL	24x12	22x10	WHITE	LAY-IN	3
H	RETURN/EXH	CEILING	TITUS	50F	STEEL	----	----	WHITE	SURFACE	3,4
J	RETURN	SIDEWALL	TITUS	350RL	STEEL	----	----	WHITE	SURFACE	4
K	SUPPLY	CEILING	THERMAFUSER	TF-NO HEAT	STEEL	24x24	----	WHITE	LAY-IN	1,2

REMARKS:
1. PATTERN TO BE 4-WAY THROW UNLESS OTHERWISE NOTED ON PLAN.
2. NECK SIZE TO BE SAME AS BRANCH DUCT RUN-OUT UNLESS OTHERWISE NOTED ON PLAN.
3. PROVIDE INSULATED PLENUM ON TOP OF GRILLE AS REQUIRED FOR DUCT CONNECTION.
4. PROVIDE WITH OPPOSED BLADE DAMPER.

APPROVED EQUALS: METAL-AIRE, NAILOR, PRICE, KRUEGER.

UNIT TYPE
NECK SIZE (INCHES)
A=10
250 CFM
TOTAL AIR QUANTITY (EACH)

FAN SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL	TYPE	CFM	ESP	FAN				REMARKS
							FRPM	DRIVE	HP/WATTS	ELECTRICAL	
EF-1	TOILETS	COOK	ACEB 135C4B	ROOF	1,550	.625	1306	BELT	1/3 HP	115/1/60	1,2,3
EF-2	STORAGE 225	COOK	ACED 90C15DL	ROOF	175	.25	1306	DIRECT	1/8 HP	115/1/60	1,3,4,5,6
EF-3	LAB ROOM 226	COOK	ACED 135C10D	ROOF	1,360	.25	1306	DIRECT	1/6 HP	115/1/60	1,3,4,5,6

REMARKS:
1. DISCONNECT SWITCH FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. FAN OPERATION TO BE SWITCHED WITH OCCUPANCY SENSOR. REFER TO ELECTRICAL.
3. ROOF CURB TO BE FURNISHED AND INSTALLED BY METAL BUILDING MANUFACTURER.
4. SWITCH WITH PILOT LIGHT.
5. EXPLOSION PROOF.
6. PROVIDE SPEED CONTROL.

AIR-COOLED SPLIT SYSTEM WITH DX COOLING SCHEDULE

MARK	SERVED	FAN COIL UNIT				CONDENSING UNIT								REMARKS
		MANUFACTURER	MODEL NO.	FAN		MARK	MANUFACTURER	MODEL NO.	CAPACITY MBH		ELECTRICAL DATA			
				CFM	FLA				COOLING	HEATING	MCA	MAX FUSE	VOLTS/PH	
FCU-1A	OFFICE 107	DAIKIN	SLZ-KF09NA	270	.25	CU-1	DAIKIN	MXZ-2C20NAH24	20.0	22.0	26.9	40	208-230/60/1	1 THRU 9
FCU-1B	OFFICE 108	DAIKIN	SLZ-KF09NA	270	.25		DAIKIN	MXZ-2C20NAH24	20.0	22.0	26.9	40	208-230/60/1	1 THRU 9
FCU-2A	OFFICE 106	DAIKIN	SLZ-KF09NA	270	.25	CU-2	DAIKIN	MXZ-2C20NAH24	20.0	22.0	26.9	40	208-230/60/1	1 THRU 9
FCU-2B	OFFICE 109	DAIKIN	SLZ-KF09NA	270	.25		DAIKIN	MXZ-2C20NAH24	20.0	22.0	26.9	40	208-230/60/1	1 THRU 9
FCU-3A	OFFICE 204	DAIKIN	SLZ-KF09NA	270	.25	CU-3	DAIKIN	MXZ-2C20NAH24	20.0	22.0	26.9	40	208-230/60/1	1 THRU 9
FCU-3B	OFFICE 205	DAIKIN	SLZ-KF09NA	270	.25		DAIKIN	MXZ-2C20NAH24	20.0	22.0	26.9	40	208-230/60/1	1 THRU 9
FCU-4	STORAGE 225	DAIKIN	SLZ-KF12NA	252	0.3	CU-4	DAIKIN	SUZ-KA12NA2	12.0	6.1	9.0	15	208/230/60/1	1 THRU 9
REMARKS: 1. COOLING CAPACITIES ARE RATED AT 95° AMBIENT OUTDOOR AIR TEMPERATURE, 80° DRY BULB, 67° WET BULB ENTERING AIR TEMPERATURE., AND NOMINAL AIR QUANTITY LISTED. 2. OUTDOOR UNIT SHALL HAVE A MINIMUM 17.0 SEER2 AND 10.0 HSPF2 RATINGS. 3. PROVIDE MANUFACTURER RECOMMENDED CLEARANCES AND SUPPORT FOR UNITS. 4. DISCONNECT SWITCHES FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. 5. PROVIDE REFRIGERANT LINES, BRANCH BOX AND ASSOCIATED POWER, AND SOLENOID AND EXPANSION VALVES PER MANUFACTURERS REQUIREMENTS. 6. PROVIDE COIL CONDENSATE PUMP AND PIPING AS REQUIRED, ROUTE TO THE NEAREST APPROVED RECEPTOR. 7. PROVIDE LOW AMBIENT KIT ENABLING UNIT TO OPERATE DOWN TO 30°. 8. PROVIDE ALL NECESSARY COMPONENTS FOR CODE COMPLIANCE AND A COMPLETE AND OPERATIONAL SYSTEM. 9. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT.														
APPROVED EQUALS: CARRIER, LENNOX, TRANE														

ELECTRIC HEATER SCHEDULE

MARK	AREA SERVED	MANUFACTURER	MODEL NO.	KW	CFM	ELECTRICAL		WEIGHT (LBS)	REMARKS
						FLA	VOLTAGE		
EW-1	STAIRWELL	QMARK	AWH-4407	4.0	100	14.4	277/1	40	1

REMARKS:
1. DISCONNECT SWITCH FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

HVAC GENERAL NOTES

- MOUNT THERMOSTATS AT 48" A.F.F. TYPICAL UNLESS NOTED OTHERWISE.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH CODE REQUIREMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. ADHERE TO REQUIRED DUCTWORK & EQUIPMENT CLEARANCES.
- ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT AND SYSTEM COMPONENTS SHALL BE COORDINATED IN WRITING WITH ELECTRICAL CONTRACTOR FOR INCLUSION AND COORDINATION.
- DUCTWORK CONSTRUCTION AND INSTALLATION SHALL BE PER MOST RECENT SMACNA STANDARDS FOR PRESSURE AND VELOCITY OF SYSTEM INSTALLATION. ALL DUCT JOINTS SHALL BE SEALED PROPERLY.
- DUCT SIZES SHOWN ON DRAWINGS ARE NET FREE AREA. INCREASE RECTANGULAR SHEET METAL SIZE FOR LINED DUCT.
- MAKE TRANSITIONS FROM DUCT SIZES SHOWN ON DRAWINGS TO THE ACTUAL EQUIPMENT DUCT CONNECTION SIZES AS REQUIRED. VERIFY EQUIPMENT CONNECTION SIZES WITH FACTORY CERTIFIED DRAWINGS. MAKE ALL TRANSITIONS PER MOST RECENT SMACNA STANDARDS. PROVIDE FLEXIBLE DUCT CONNECTIONS FOR ALL MOTOR DRIVEN EQUIPMENT.
- THE CONTRACTOR SHALL COORDINATE ROUTING AND SIZE OF DUCTWORK WITH ACTUAL FINAL BUILDING CONDITIONS OF STRUCTURE SIZE AND LOCATION, LIGHT LOCATIONS, ARCHITECTURAL FEATURES, AND WORK OF OTHER TRADES. WHERE DUCT SIZES MUST BE REVISED FROM THOSE SHOWN ON THE DRAWINGS, MAINTAIN SAME CROSS SECTIONAL AREA, VELOCITY, AND PRESSURE DROP. WHEN NECESSARY, REROUTE DUCT TO CLEAR OBSTRUCTIONS WITH MINIMUM NUMBER OF FITTINGS AND ELEVATION CHANGES. WHERE DUCT MUST BE SIGNIFICANTLY ALTERED FROM THAT SHOWN ON THE DRAWINGS, NOTIFY THE ENGINEER PRIOR TO PROCEEDING.
- EXPOSED DUCTWORK AND ACCESSORIES IN FINISHED AREAS TO BE PAINTED AS DIRECTED BY ARCHITECT.
- MECHANICAL CONTRACTOR SHALL PROVIDE HVAC TEST AND BALANCE RESULTS, THRU A CERTIFIED INDEPENDANT THIRD PARTY. TEST AND BALANCE SHALL BE PERFORMED AND REPORTED AS DESCRIBED BY NEBB OR AMBC. FILTERS SHALL BE NEW AND CLEAN, DUCTWORK CLEAN, AND EQUIPMENT CONTROLS AND DEVICES FULLY FUNCTIONAL AT THE TIME OF PERFORMING BALANCE WORK.
- ALL EQUIPMENT SHALL BE PERMANENTLY LABELED WITH 2" LETTERING USING BAKELITE SIGNAGE SECURED TO EQUIPMENT.
- ROUTE CONDENSATE PIPING TO APPROVED DISCHARGE LOCATION. PROVIDE CONDENSATE TRAP WITH CLEANOUTS AND VENT ON DISCHARGE SIDE OF TRAP FOR ALL UNITS WITH COOLING COILS. TRAP DEPTH SHALL BE A MINIMUM OF THE UNIT TOTAL PRESSURE PLUS 2 INCHES.
- CONDENSATE PIPING INSTALLED WITHIN THE BUILDING SHALL BE FULLY INSULATED AND PROVIDED WITH VAPOR BARRIER.
- COORDINATE WORK SHOWN ON THE DRAWINGS WITH ALL OTHER TRADES AND ACTUAL CONDITIONS OF CONSTRUCTION PRIOR TO INSTALLATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL HARD WIRED LOW VOLTAGE WIRING FOR TEMPERATURE CONTROLS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING, FLASHING, AND SEALING ALL TRADE RELATED WALL AND ROOF PENETRATIONS.
- DUCT AND PIPE HANGERS SHALL BE INSTALLED PER SMACNA STANDARDS.
- CONTRACTOR SHALL PROVIDE ALL MATERIALS FOR A COMPLETE, CODE COMPLIANT, FULLY OPERATIONAL SYSTEM.
- ALL 90 DEGREE ELBOWS WITHIN RECTANGULAR SUPPLY, RETURN, AND EXHAUST DUCTWORK TO BE PROVIDED WITH AIRFOIL TURNING VANES.

AIR BALANCE SCHEDULE

MARK	AREA SERVED	SUPPLY AIR CFM	EXHAUST AIR CFM	OUTSIDE AIR/MAKE-UP CFM
RTU-1.1	GALLERY 101 NORTH	4,800	-	1,000
RTU-1.2	GALLERY 101 SOUTH	4,800	-	1,000
RTU-1.3	GALLERY 103	4,800	-	1,000
RTU-1.4	CLASSROOMS 128-130	2,000	-	400*
RTU-1.5	CLASSROOMS 125,127	1,600	-	280*
RTU-1.6	CORE AREA 105	2,000	-	350
RTU-1.7	CLASSROOMS 110,111	1,750	-	350*
RTU-2.1	CLASSROOMS 228-230	2,625	-	525*
RTU-2.2	CORE AREA 205	1,750	-	350
RTU-2.3	CLASSROOM 226	2,625	-	525*
RTU-2.4	CLASSROOMS 208,210,211	2,625	-	525*
EF-1	TOILETS	-	1,550	-
EF-2	STORAGE 225	-	175	-
EF-3	LAB ROOM 226	-	1,360	-
EF-X	HOOD IN LAB ROOM 226	-	1,400	-
TOTALS		31,375	4,485	6,305

TOTAL BUILDING AREA: 29,224 SF
TOTAL BUILDING SUPPLY AIR FLOW: 31,375 CFM
TOTAL OUTSIDE AIR: 6,305 CFM
TOTAL EXHAUST: 4,485 CFM
NET BUILDING PRESSURE: 1,820 CFM POSITIVE

CONSULTANT:

Reference Cover Sheet
for Consultant Directory

100% CONSTRUCTION DOCUMENTS
03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

MECHANICAL SCHEDULES AND DETAILS

AARON BROGDON, PE
OK LICENSE NO. 23990
V2 ENGINEERING, LLC
OK CA #7856

JOB 2023.14

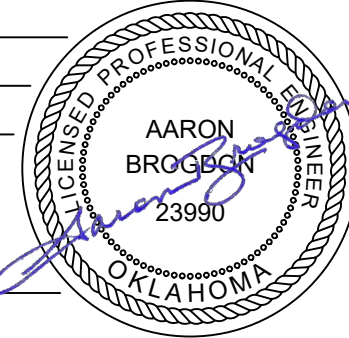
ISSUE 03.03.2025

DRAWN BY:

CHKD BY:

M201

SCALE



3-3-25

Classified by
Underwriters Laboratories, Inc.
to UL 1479

System No. W-L-7155

W-L-7155

ANSI/UL1479 (ASTM E814)		CAN/ULC S115	
F Ratings — 1 and 2 Hr (See Item 1)		F Ratings — 1 and 2 Hr (See Item 1)	
T Ratings — 0 Hr		FT Ratings — 0 Hr	
L Rating at Ambient — Less Than 1 CFM/sq ft		FH Ratings — 1 and 2 Hr (See Item 1)	
L Rating at 400 F — Less Than 1 CFM/sq ft		FTH Ratings — 0 Hr	
		L Rating at Ambient — Less Than 1 CFM/sq ft	
		L Rating at 400 F — Less Than 1 CFM/sq ft	

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400, V400 or W400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing shall consist of min 3-1/2 in. (89 mm) wide steel channel studs spaced max 24 in. (610 mm) OC. Additional steel studs shall be used to completely frame the opening.

B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design in the UL Fire Resistance Directory. Max area of opening is 73.7 sq ft (6.85 m²) with a max dimension of 104 in. (2.64 m).

The hourly F and FRT Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Steel Duct — Max 100 in. by 100 in. (2.5 by 2.5 m) galv steel duct to be installed either concentrically or eccentrically within the firestop system. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. The space between the steel duct and periphery of opening shall be min 0 in. (point contact) to max 2 in. (51 mm). Steel duct to be rigidly supported on both sides of the wall assembly.

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Hilti Firestop Systems

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January 21, 2015

Page: 1 of 2

System No. WL-1151

2A1. Through-Penetrating Product* — As an alternate to Item 2. Fiber cement with galvanized steel facing, 3/8 in. (10 mm) thick composite metal duct, with a max cross-sectional area of 43.0 sq ft, (4 m2) and a max individual dimension of 78 3/4 in. (2 m). Duct to be installed either concentrically or eccentrically within the firestop system such that the annular space is min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides of wall assembly. Refer to Fire Resistance Test Assemblies in Vol. 2 of the Fire Resistance Directory.

DURASYSTEMS BARRIERS INC. — Type DuraDuct HP.

2A2. Through-Penetrating Product* — As an alternate to Item 2. Fiber cement with galvanized steel facing, 1/4 in. (6 mm) thick, with a max cross-sectional area of 1764 sq in. (1.14 m2), and a max individual dimension of 42 in. (1067 mm). Duct to be installed either concentrically or eccentrically within the firestop system such that the annular space is min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides of wall assembly and installed in accordance. Refer to Ventilation Duct Assemblies in Vol. 2 of the Fire Resistance Directory.

DURASYSTEMS BARRIERS INC. — Type DuraDuct SD.

2A3. Through-Penetrating Product* — As an alternate to Item 2. Galvanized steel faced duct panel, with a max cross-sectional area of 2450 sq in. (158 m2), and a max individual dimension of 49 1/2 in. (1259 mm). Duct to be installed either concentrically or eccentrically within the firestop system such that the annular space is min 0 in. (point contact) to max 2 in. (51 mm). Duct to be rigidly supported on both sides wall assembly. Refer to Ventilation Duct Assemblies in Vol. 2 of the Fire Resistance Directory.

DURASYSTEMS BARRIERS INC. — Type DuraDuct GNX.

3 Firestop System — The firestop system shall consist of the following:

- A. **Packing Material** — (Optional, Not Shown) — Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction fitted into annular space. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
- A1. **Packing Material** — Required as specified in Table below. Min 3.3/4 in. (95 mm) or 5 in. (127 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form for 1 and 2 hr rated assemblies, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
- B. **Fill, Void or Cavity Material** — Sealant — Min 5/8 in. (16 mm) thickness of the fill material applied within the annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam beaded fill product shall be applied at the point contact location between the steel duct and the gypsum board.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CFS-SL GIG Sealant, FOS-ONE Sealant, FOS-ONE Max Intumescent Sealant or CP606 Flexible Firestop Sealant

3 Steel Retaining Angles — Min. 16 gauge galv steel angles spaced to lap steel duct a min of 2 in. (51 mm) and to lap wall surfaces a min of 1 in. (25 mm). When max duct dimension does not exceed 48 in. (122 cm) and duct area does not exceed 1300 in2 (8387 cm2), angles may be min 16. When max duct dimension exceeds 48 in. (122 cm) on both sides of wall with min 16. No 10 x 12 in. (13 mm) long steel sheet metal screws located a max of 1 in. (25 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. Steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material, sealant and annular space as specified.

Max Duct Dimension	Duct Thickness	Annular Space	Packing Material	Angle (Item GC) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	Item 3A1	No

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

CLASSIFIED
UL US
Classified by
Underwriters Laboratories, Inc.
to UL 1479 and CANULC-S115

System No. C-AJ-7111

CAN 7111

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating — 2 Hr	F Rating — 2 Hr
T Rating — 0 Hr	FT Rating — 0 Hr
	FH Rating — 2 Hr
	FTH Rating — 0 Hr

SECTION A-A

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete or min 3 in. (76 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks* Max area of opening is 7.1 sq ft (0.66 m²) with max dimension of 32 in. (813 mm).

See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Steel Duct — Max 30 by 30 in. (762 by 762 mm) No. 24 gauge (or heavier) steel duct. One duct to be installed within the firestop system with a min 1/4 in. (6 mm) gap to min 1-3/4 in. (44 mm) annular space. Steel duct to be rigidly supported on both sides of floor or wall assembly.

3. Firestop System — The firestop system shall consist of the following:

- Packing Material** — Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
- Fill, Void or Cavity Material** — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant or FS-One MAX Intumescent Sealant.

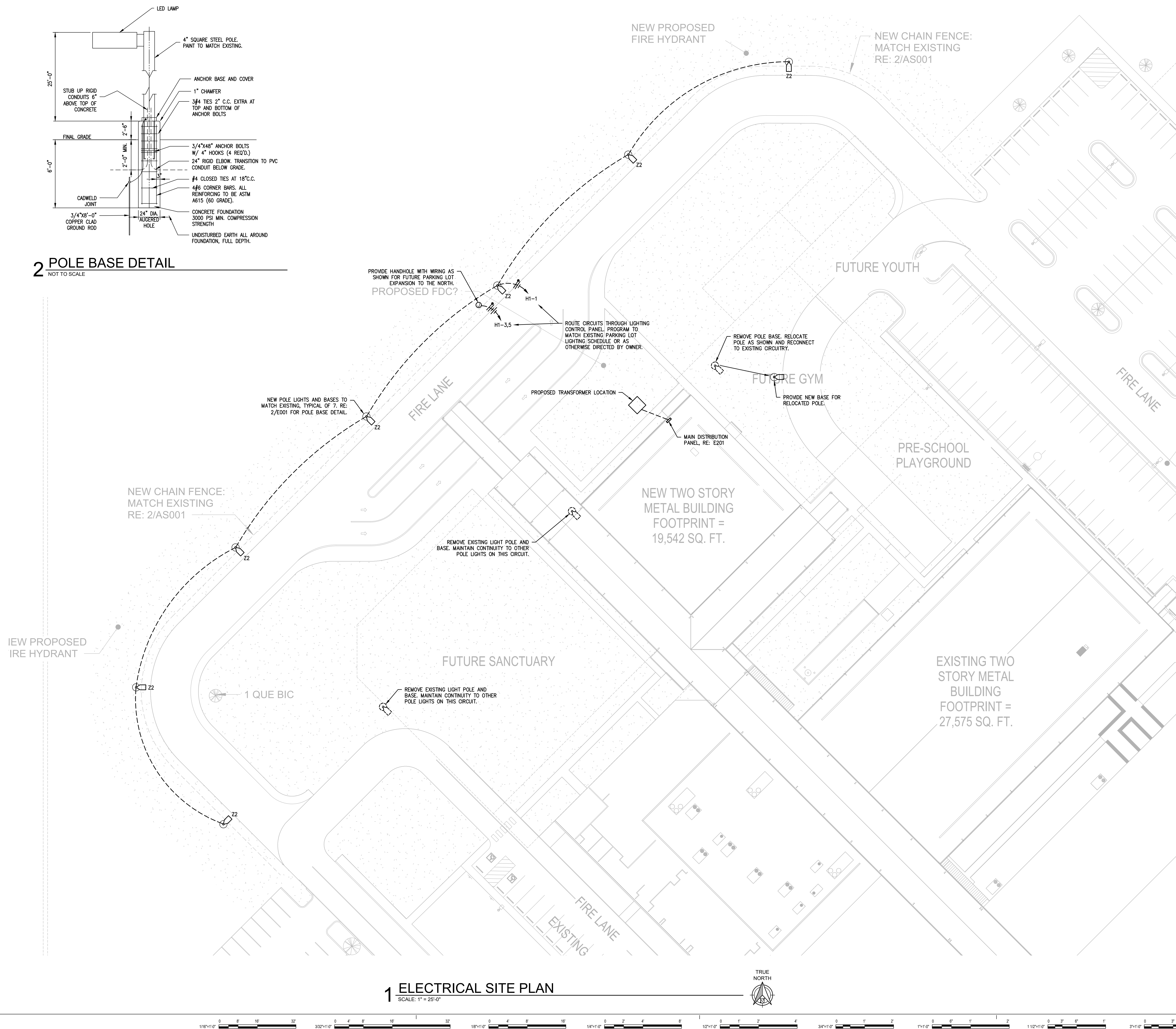
C. Steel Angle — Min 2 in. (51 mm) wide by 2 in. (51 mm) high No. 16 gauge (or heavier) steel angle cut to fit the contour of the duct with a min 1/4 in. (6 mm) lap on the top surface of floor or on both surfaces of wall on all sides of the opening. Legs of angles secured to duct with No. 3 by 3/8 in. (19 mm) long steel sheet metal screws spaced max 4 in. (102 mm) OC.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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Hilti Firestop Systems

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January 14, 2015

CONSULTANT:
Reference Cover Sheet
for Consultant Directory



100% CONSTRUCTION
DOCUMENTS
03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

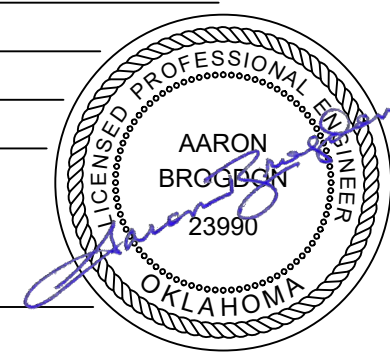
ELECTRICAL SITE PLAN

AARON BROGDON, PE
OK LICENSE NO. 23990
v2 ENGINEERING, LLC
OK CA #7856

JOB: 2023.14
ISSUE: 03.03.2025

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E001
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3-3-25

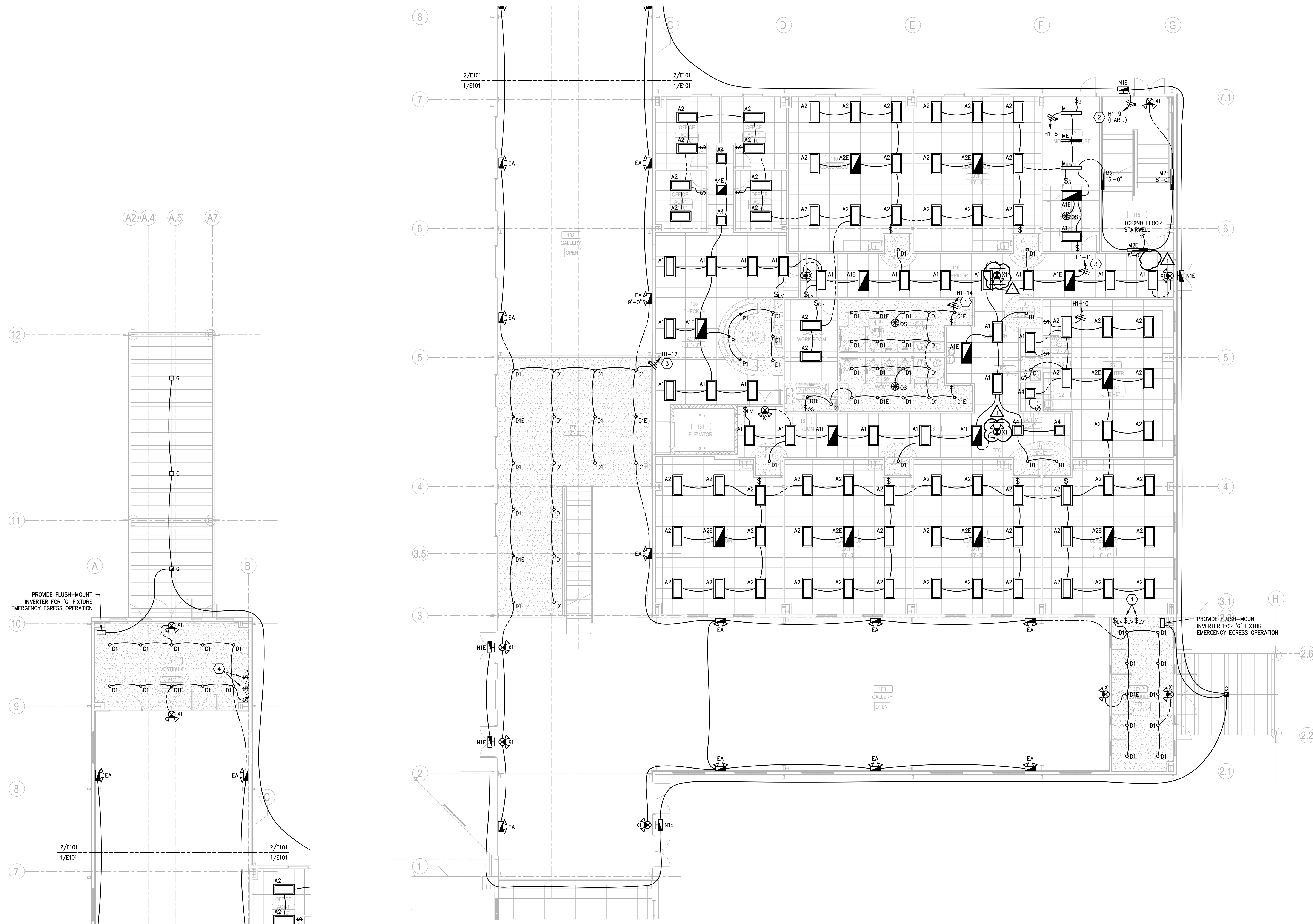
LIGHTING WIRING LEGEND

LINE TYPE INDICATES FIXTURES CONNECTED TO SAME CIRCUIT BUT CONTROLLED BY SEPARATE MEANS.

SOLID HATCH INDICATES EMERGENCY BATTERY BACKUP. FIXTURE TO BE CONNECTED TO SWITCHING MEANS FOR NORMAL OPERATION. BATTERY SHALL ENERGIZE LAMPS ONLY UPON LOSS OF POWER TO BRANCH CIRCUIT.

KEYED NOTES (THIS SHEET)

- 1 PROVIDE RELAYS TO ENERGIZE RESTROOM EXHAUST FAN EF-1 WHEN OCCUPANCY IS DETECTED IN ONE OR MORE RESTROOMS.
- 2 ROUTE EXTERIOR LIGHTING CIRCUIT THROUGH LIGHTING CONTROL PANEL. PROGRAM TO MATCH EXISTING OUTDOOR LIGHTING CONTROL SCHEDULE OR AS OTHERWISE DIRECTED BY OWNER. RE: E103 FOR CONTROL PANEL SCHEDULE.
- 3 ROUTE THIS COMMON AREA LIGHTING CIRCUIT THROUGH LIGHTING CONTROL PANEL AND PROGRAM TO MATCH EXISTING CONTROL SCHEDULE OR AS OTHERWISE DIRECTED BY OWNER. PROVIDE LOW VOLTAGE OVERRIDE SWITCHES AS INDICATED. VERIFY OVERRIDE SWITCH LOCATIONS WITH OWNER PRIOR TO ROUGH-IN. RE: E103 FOR CONTROL PANEL SCHEDULE.
- 4 PROVIDE LOW VOLTAGE OVERRIDE SWITCHES FOR GALLERY FLOOD LIGHTS. ONE SWITCH FOR 'UP' LIGHTS, AND ONE SWITCH FOR 'DOWN' LIGHTS. RE: E102 FOR GALLERY FLOOD LIGHTS.



2 1ST FLOOR CANOPY LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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

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03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS		
#	DATE	DESCRIPTION
1	03/14/2025	CITY COMMENTS

ELECTRICAL 1ST FLOOR LIGHTING PLAN

AARON BROGDON, PE
OK LICENSE NO. 23990
v2 ENGINEERING, LLC
OK CA #7856

JOB: 2023.14
ISSUE: 03.03.2025
DRAWN BY: AARON BROGDON
CHKD BY: AARON BROGDON

E101

SCALE: 3/16" = 1'-0"

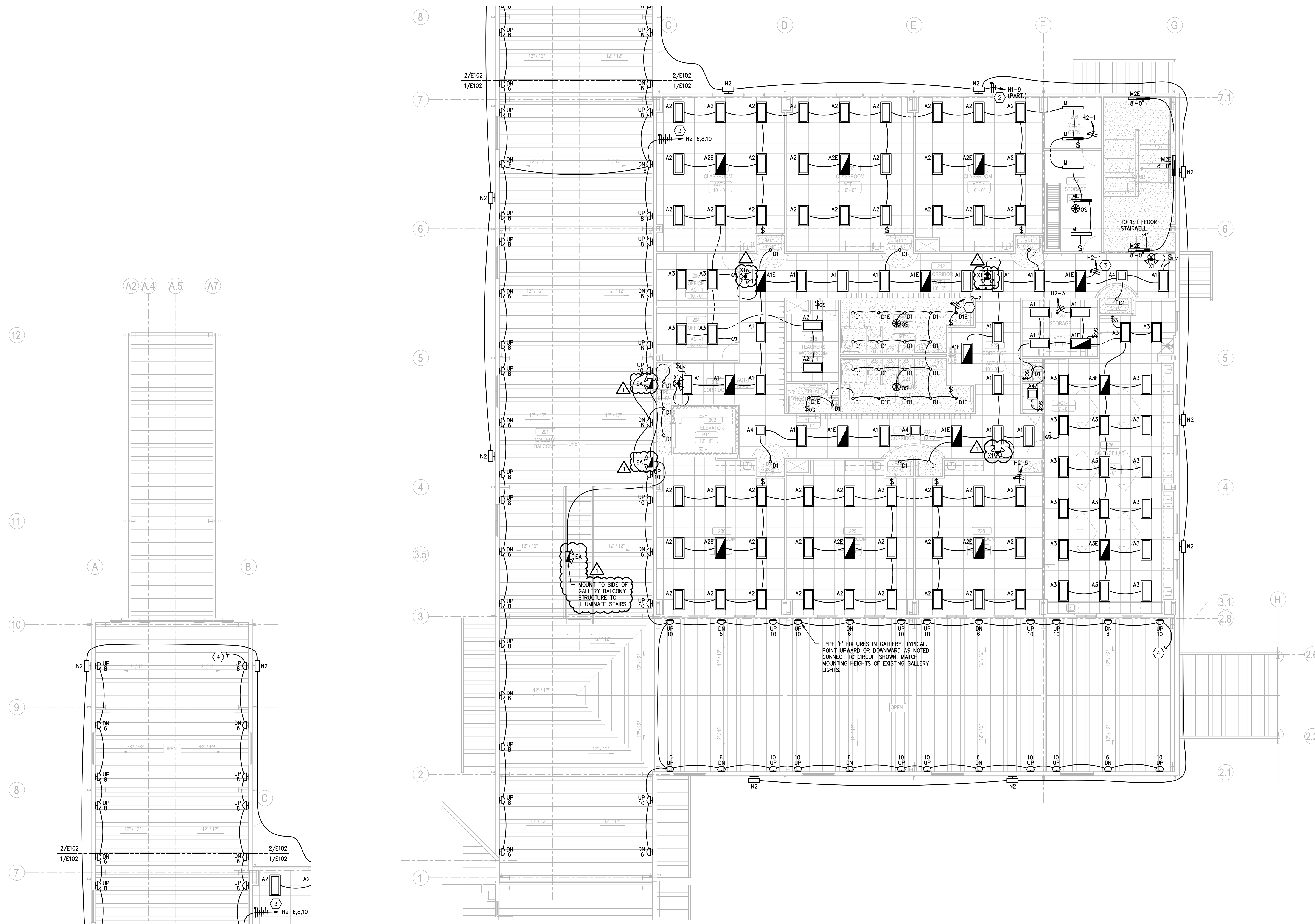
LIGHTING WIRING LEGEND

LINE TYPE INDICATES FIXTURES CONNECTED TO SAME CIRCUIT BUT CONTROLLED BY SEPARATE MEANS.

SOLID HATCH INDICATES EMERGENCY BATTERY BACKUP. FIXTURE TO BE CONNECTED TO SWITCHING MEANS FOR NORMAL OPERATION. BATTERY SHALL ENERGIZE LAMPS ONLY UPON LOSS OF POWER TO BRANCH CIRCUIT.

KEYED NOTES (THIS SHEET)

- 1 PROVIDE RELAYS TO ENERGIZE RESTROOM EXHAUST FAN EF-1 WHEN OCCUPANCY IS DETECTED IN ONE OR MORE RESTROOMS.
- 2 ROUTE EXTERIOR LIGHTING CIRCUIT THROUGH LIGHTING CONTROL PANEL. PROGRAM TO MATCH EXISTING OUTDOOR LIGHTING CONTROL SCHEDULE OR AS OTHERWISE DIRECTED BY OWNER. RE: E103 FOR CONTROL PANEL SCHEDULE.
- 3 ROUTE THIS COMMON AREA LIGHTING CIRCUIT THROUGH LIGHTING CONTROL PANEL AND PROGRAM TO MATCH EXISTING CONTROL SCHEDULE OR AS OTHERWISE DIRECTED BY OWNER. PROVIDE LOW VOLTAGE OVERRIDE SWITCHES AS INDICATED. VERIFY OVERRIDE SWITCH LOCATIONS WITH OWNER PRIOR TO ROUGH-IN. RE: E103 FOR CONTROL PANEL SCHEDULE.
- 4 PROVIDE LOW VOLTAGE OVERRIDE SWITCHES IN VESTIBULES ON FIRST FLOOR BELOW. RE: E101 FOR SWITCH LOCATIONS.



LIGHTING SCHEDULE													
TYPE	MANUFACTURER	CATALOG NUMBER	VOLTS	WATTS	LAMP TYPE	LUMENS	COLOR TEMP	CRI	MOUNTING	OPTICS	FINISH	DESCRIPTION	NOTES
A1	ELITE	24-FPL-BL-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85	120-277	30	LED	3,800	3500K	85	LAY-IN	GENERAL	WHITE	2'X4' FLAT PANEL	SET LUMEN SWITCH TO 3,000, COLOR TO 35K
A1E	ELITE	24-FPL-BL-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85-O-EMG-LED-10W	120-277	30	LED	3,800	3500K	85	LAY-IN	GENERAL	WHITE	SAME AS 'A1' W/ EMERGENCY BATTERY	SET LUMEN SWITCH TO 3,000, COLOR TO 35K
A2	ELITE	24-FPL-BL-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85	120-277	39	LED	4,800	3500K	85	LAY-IN	GENERAL	WHITE	2'X4' FLAT PANEL	SET LUMEN SWITCH TO 4,000, COLOR TO 35K
A2E	ELITE	24-FPL-BL-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85-O-EMG-LED-10W	120-277	39	LED	4,800	3500K	85	LAY-IN	GENERAL	WHITE	SAME AS 'A2' W/ EMERGENCY BATTERY	SET LUMEN SWITCH TO 4,000, COLOR TO 35K
A3	ELITE	24-FPL-BL-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85	120-277	49	LED	5,400	3500K	85	LAY-IN	GENERAL	WHITE	2'X4' FLAT PANEL	SET LUMEN SWITCH TO 5,000, COLOR TO 35K
A3E	ELITE	24-FPL-BL-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85-O-EMG-LED-10W	120-277	49	LED	5,400	3500K	85	LAY-IN	GENERAL	WHITE	SAME AS 'A3' W/ EMERGENCY BATTERY	SET LUMEN SWITCH TO 5,000, COLOR TO 35K
A4	ELITE	22-FPL-BL-LED-2000L/3000L/4000L-DIM10-MVOLT-35K/40K/50K-85	120-277	19	LED	2,600	3500K	85	LAY-IN	GENERAL	WHITE	2'X2' FLAT PANEL	SET LUMEN SWITCH TO 2,000, COLOR TO 35K
A4E	ELITE	22-FPL-BL-LED-2000L/3000L/4000L-DIM10-MVOLT-35K/40K/50K-85-O-EMG-LED-10W	120-277	19	LED	2,600	3500K	85	LAY-IN	GENERAL	WHITE	SAME AS 'A4' W/ EMERGENCY BATTERY	SET LUMEN SWITCH TO 2,000, COLOR TO 35K
D1	ELITE	HH6-LED-900L-DIM10-MVOLT-MD-35K-90/HH6-6501-W-WH	120-277	12	LED	1,100	3500K	90	RECESSED	GENERAL	WHITE	4" DOWNLIGHT	
D1E	ELITE	HH6-LED-900L-DIM10-MVOLT-MD-35K-90-INTG-EMG-LED-10W/HH6-6501-INTG-W-WH	120-277	12	LED	1,100	3500K	90	RECESSED	GENERAL	WHITE	SAME AS 'D1' W/ EMERGENCY BATTERY	
EA	EELP	EM20-E	120-277	10	LED	520	-	-	7'-6" AFF TO CENTER	-	WHITE	WALL-MOUNT EMERGENCY EGRESS LIGHT W/ BATTERY BACKUP	
F	LUMARK	XTOR6B-Y-WT	120-277	61	LED	6,100	3000K	70	WALL, SEE PLANS	FLOOD	WHITE	WALL-MOUNT FLOOD LIGHT	
G	STONCO	GC60-SCT-G2-SM-S-10-BZ	120-277	40	LED	6,000	4000K	70	CANOPY SURFACE	TYPE 5	BRONZE	OUTDOOR CANOPY LIGHT W/ POLYCARBONATE DROP LENS	
M	ORACLE	4-OC4-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85-WH-OCVH	120-277	36	LED	4,800	3500K	85	SUSPENDED @ 8'-0" TO BOTTOM	GENERAL	WHITE	4' STRIP W/ FROSTED ACRYLIC LENS	SET LUMEN SWITCH TO 4,000, COLOR TO 35K
ME	ORACLE	4-OC4-LED-3000L/4000L/5000L-DIM10-MVOLT-35K/40K/50K-85-WH-O-EMG-LED-10W-OCVH	120-277	36	LED	4,800	3500K	85	SUSPENDED @ 8'-0" TO BOTTOM	GENERAL	WHITE	SAME AS 'M' W/ EMERGENCY BATTERY	SET LUMEN SWITCH TO 4,000, COLOR TO 35K
M2E	FINELITE	HP-4-WM-ID-4FT-B-B-835-ASY-R-F-96LG-277-SC-FC-10%-MB-FE-SA-BSL722-0B0	277	36	LED	4,300	3500K	80	WALL, SEE PLANS	DIRECT/INDIRECT	SATIN ALUMINUM	4' DIRECT/INDIRECT WALL MOUNT W/ OCC SENSOR AND BATTERY BACKUP. 53% UPLIGHT (ASYMMETRIC), 47% DOWNLIGHT (LAMBERTIAN)	
N1E	GARDCO	101L-16L-200-NW-G2-4-EBPC-UNV-BZ	120-277	12	LED	1,500	4000K	70	WALL, 12" ABOVE DOOR TO CENTER	TYPE 4	BRONZE	WALL PACK, FULL CUTOFF W/ COLD WEATHER EMERGENCY BATTERY	
N2	GARDCO	101L-16L-700-NW-G2-4-UNV-BZ	120-277	38	LED	4,300	4000K	70	WALL @ 21'-0" TO CENTER	TYPE 4	BRONZE	WALL PACK, FULL CUTOFF	
P1	USAI	CBRC12-12C3-35KS-4S-S-BL-AR2-UNV-D6E	120-277	12	LED	900	3500K	80	SUSPENDED, PER ARCHITECT	45°	BLACK	6" CYLINDER PENDANT W/ CROSS BAFFLE	
X1	EELP	XCS2RW	120-277	5	LED	-	-	-	UNIVERSAL	-	WHITE/RED	EXIT/EMERGENCY COMBO SIGN	
Z2	GARDCO	FIXTURE: P20-C-A05-840-T2-AR1-UNV-010V-MG POLE: SSS-25-4-11-D1-NP-FESØ18"	120-277	67	LED	8,250	4000K	80	POLE @ 25'-0"	TYPE 2	MEDIUM GRAY	POLE-MOUNTED AREA LIGHT	
NOTES: 1. MOUNTING HEIGHTS ON LIGHTING PLANS SHALL SUPERCEDE THIS SCHEDULE.													

LIGHTING CONTROL PANEL 'LCP1'			
RELAY	CIRCUIT	DESCRIPTION	OVERRIDE
1	H1-1	PARKING LOT	NONE
2	H1-3	PARKING LOT (FUTURE)	NONE
3	H1-5	PARKING LOT (FUTURE)	NONE
4	H1-9	WALL PACKS AND CANOPIES	NONE
5	H1-11	CHECK-IN 105	L.V. SWITCH AT CHECK-IN AREA
6	H1-11	1ST FLOOR CLASSROOM CORRIDORS	L.V. SWITCHES AT ENDS OF CORRIDORS
7	H1-12	GALLERY/VESTIBULE DOWNLIGHTS	L.V. SWITCH IN EACH VESTIBULE
8		SPARE	
NOTES: 1. BASIS OF DESIGN: DOUGLAS LIGHTING CONTROLS DLP2-BR-SM. 2. PROGRAM SCHEDULES PER OWNER DIRECTION. 3. PROVIDE LOW VOLTAGE OVERRIDE SWITCHES FOR 2 HOUR OVERRIDE CONTROL. VERIFY SWITCH LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.			

LIGHTING CONTROL PANEL 'LCP2'			
RELAY	CIRCUIT	DESCRIPTION	OVERRIDE
1	H2-4	2ND FLOOR CLASSROOM CORRIDORS	L.V. SWITCHES AT ENDS OF CORRIDORS
2	H2-6	GALLERY FLOODS (UP)	L.V. SWITCHES IN EACH VESTIBULE
3	H2-8	GALLERY FLOODS (DOWN)	
4	H2-10	GALLERY FLOODS (DOWN)	L.V. SWITCHES IN EACH VESTIBULE
5		SPARE	
6		SPARE	
7		SPARE	
8		SPARE	
NOTES: 1. BASIS OF DESIGN: DOUGLAS LIGHTING CONTROLS DLP2-BR-SM. 2. PROGRAM SCHEDULES PER OWNER DIRECTION. 3. PROVIDE LOW VOLTAGE OVERRIDE SWITCHES FOR 2 HOUR OVERRIDE CONTROL. VERIFY SWITCH LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.			



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03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

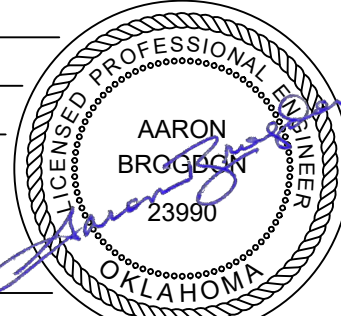
ELECTRICAL LIGHTING
SCHEDULE AND DIAGRAMS

AARON BROGDON, PE
OK LICENSE NO. 23990
V2 ENGINEERING, LLC
OK, CA #7856

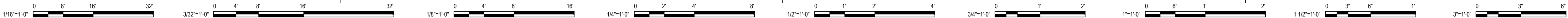
JOB2023.14
ISSUE03.03.2025
DRAWN BY:
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E103

SCALE



3-3-25

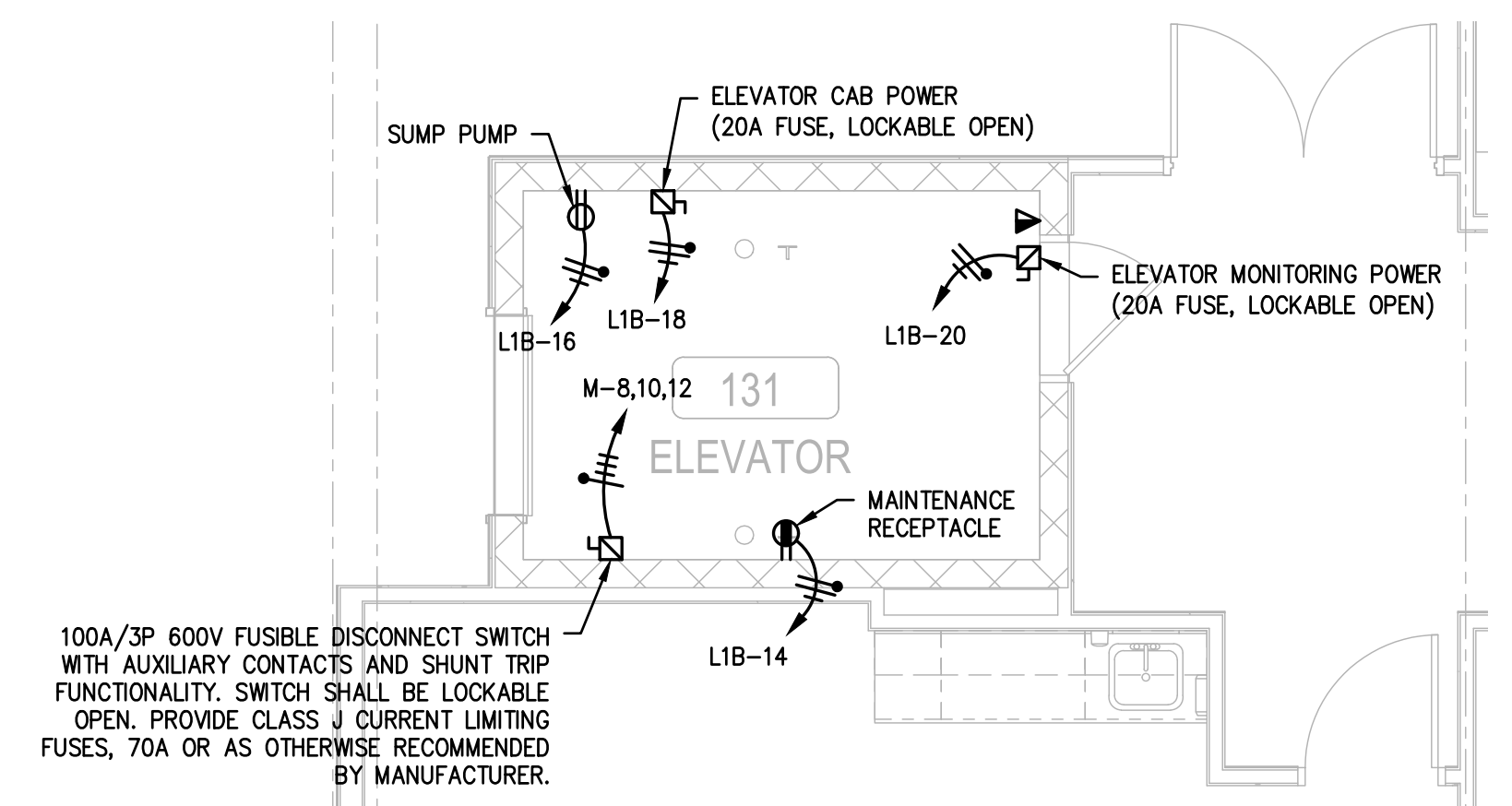


KEYED NOTES (THIS SHEET)

- 1 PROVIDE 1-1/2" CONDUIT AND PULLSTRING FROM THIS IT CLOSET TO EXISTING IT ROOM 106 IN "PHASE 4" AREA OF BUILDING, FOR FIBER OPTIC CABLING.

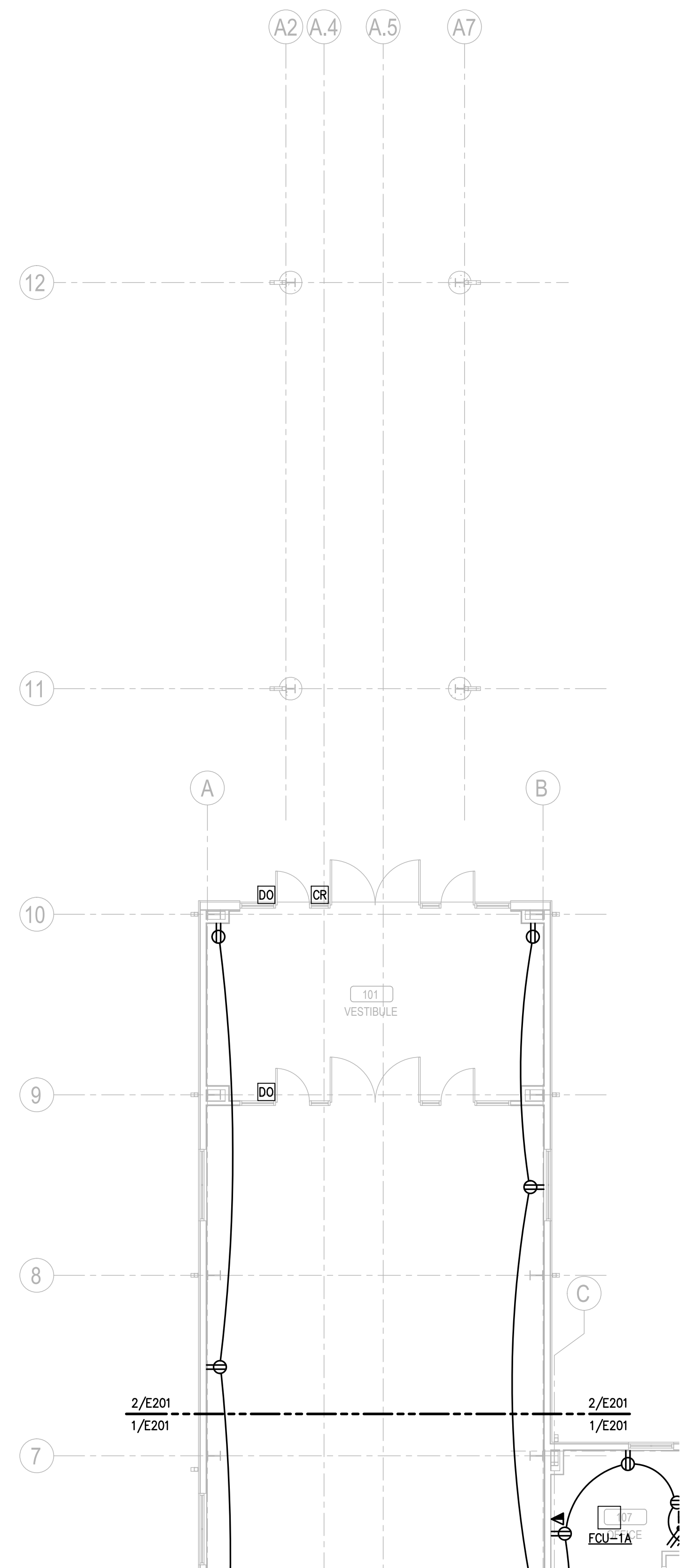
LOW VOLTAGE LEGEND

- CR CARD READER. PROVIDE ROUGH-IN AS REQUIRED. COORDINATE WITH SECURITY INSTALLER TO DETERMINE EXACT REQUIREMENTS AND LOCATIONS.
- DO DOOR OPERATOR AND PUSH-TO-EXIT HARDWARE. COORDINATE WITH HARDWARE INSTALLER TO DETERMINE EXACT REQUIREMENTS AND LOCATIONS. IF 120V POWER IS REQUIRED, CONNECT TO NEAREST GENERAL PURPOSE RECEPTACLE CIRCUIT.



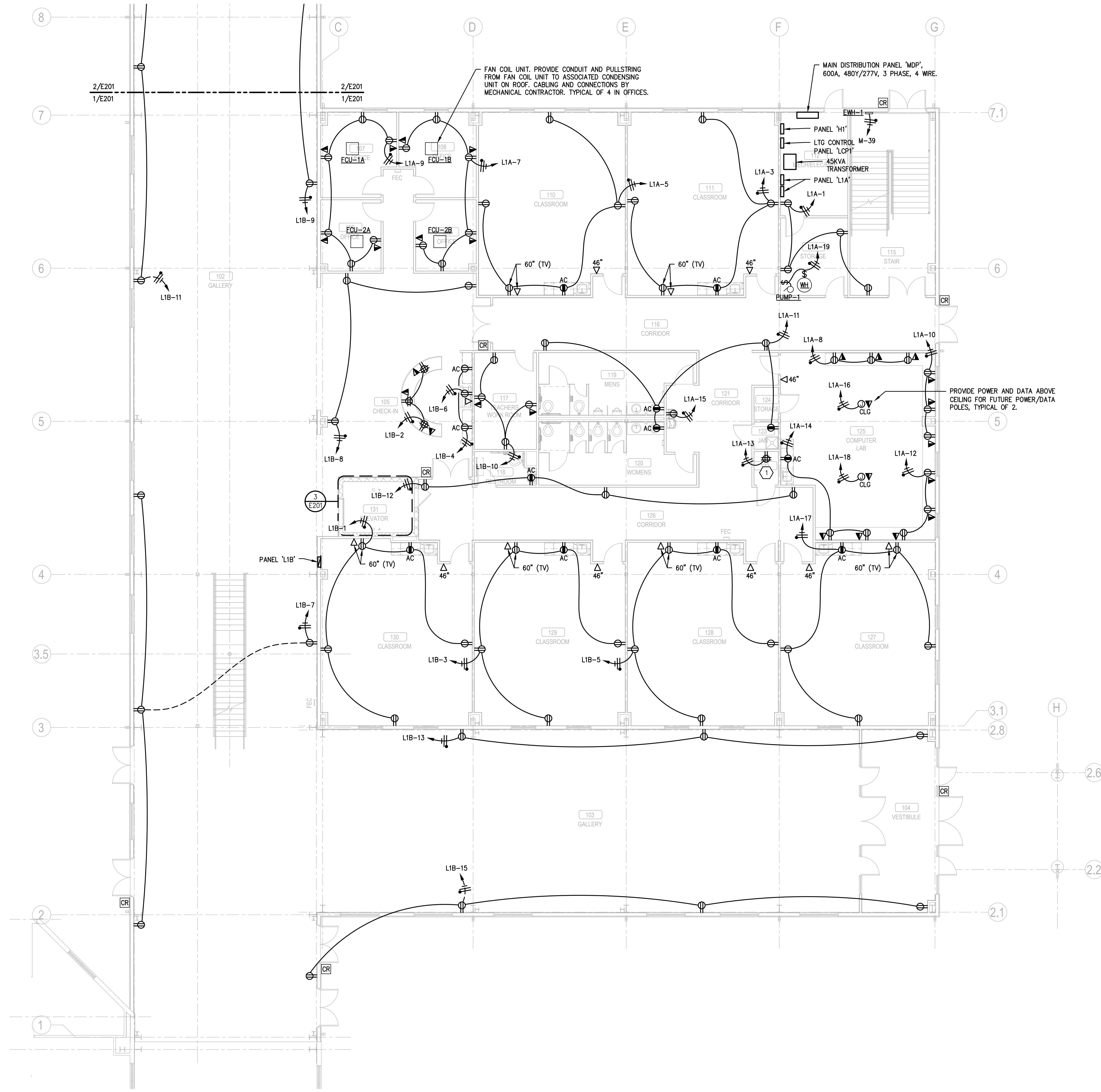
3 ELEVATOR POWER PLAN

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



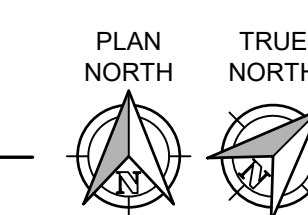
2 1ST FLOOR CANOPY POWER PLAN

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



1 1ST FLOOR POWER PLAN

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



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EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

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ELECTRICAL 1ST FLOOR POWER PLAN

AARON BROGDON, PE
OK LICENSE NO. 23990
V2 ENGINEERING, LLC
OK CA #7856

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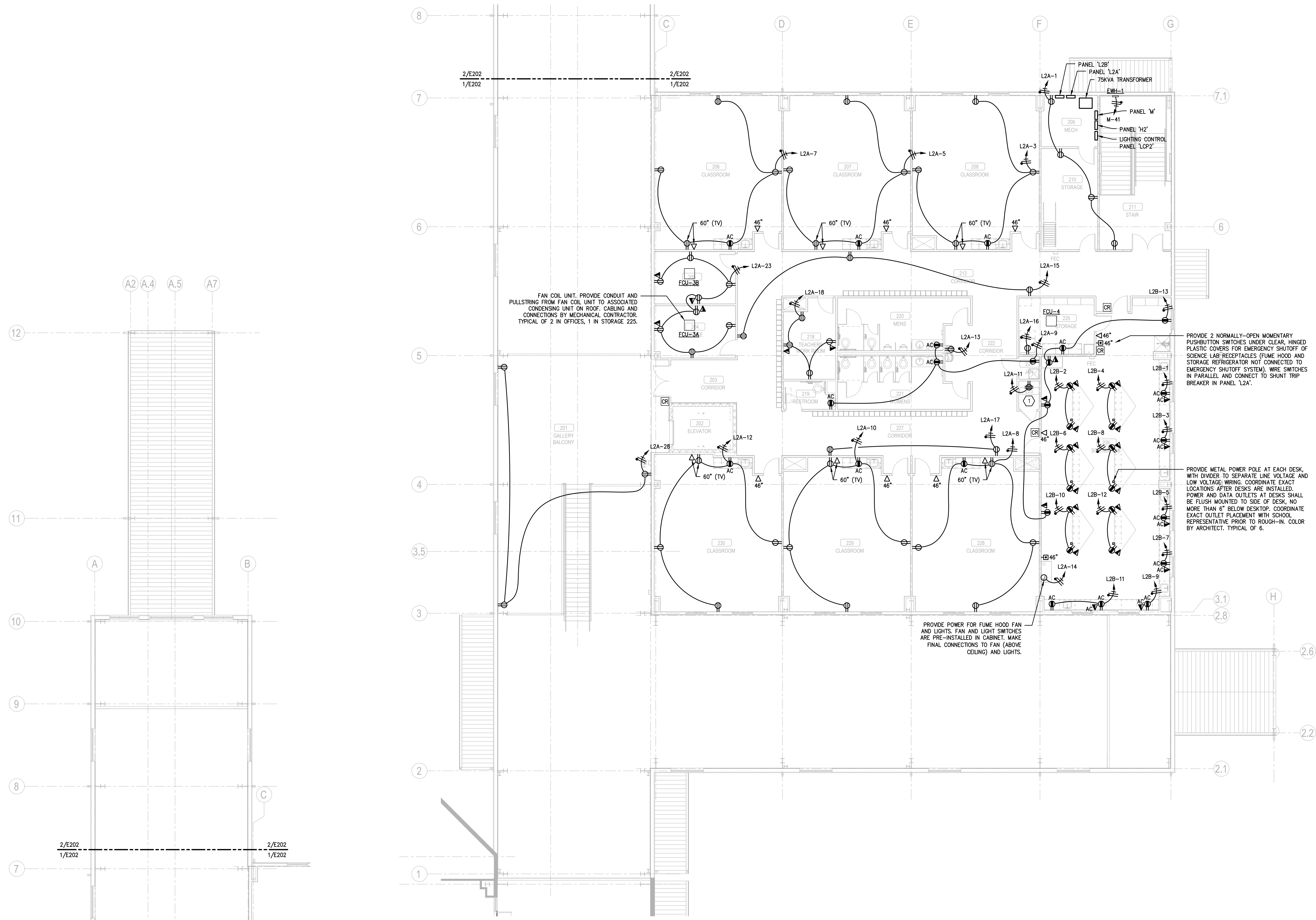
KEYED NOTES (THIS SHEET)

1 PROVIDE 1-1/2" CONDUIT AND PULLSTRING FROM THIS IT CLOSET TO EXISTING IT ROOM 106 IN "PHASE 4" AREA OF BUILDING, FOR FIBER OPTIC CABLING.

LOW VOLTAGE LEGEND

CR CARD READER. PROVIDE ROUGH-IN AS REQUIRED. COORDINATE WITH SECURITY INSTALLER TO DETERMINE EXACT REQUIREMENTS AND LOCATIONS.

DO DOOR OPERATOR AND PUSH-TO-EXIT HARDWARE. COORDINATE WITH HARDWARE INSTALLER TO DETERMINE EXACT REQUIREMENTS AND LOCATIONS. IF 120V POWER IS REQUIRED, CONNECT TO NEAREST GENERAL PURPOSE RECEPTACLE CIRCUIT.



2 2ND FLOOR CANOPY POWER PLAN
SCALE: 1/8" = 1'-0"

1 2ND FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

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10301 EAST 111TH ST. S.
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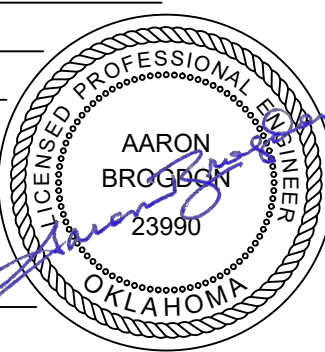
ELECTRICAL 2ND FLOOR POWER PLAN

AARON BROGDON, PE
OK LICENSE NO. 23990
v2 ENGINEERING, LLC
OK CA #7856

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EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
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ELECTRICAL ROOF
POWER PLAN

AARON BROGDON, PE
OK LICENSE NO. 23990
v2 ENGINEERING, LLC
OK CA #7856

JOB 2023.14
ISSUE 03.03.2025

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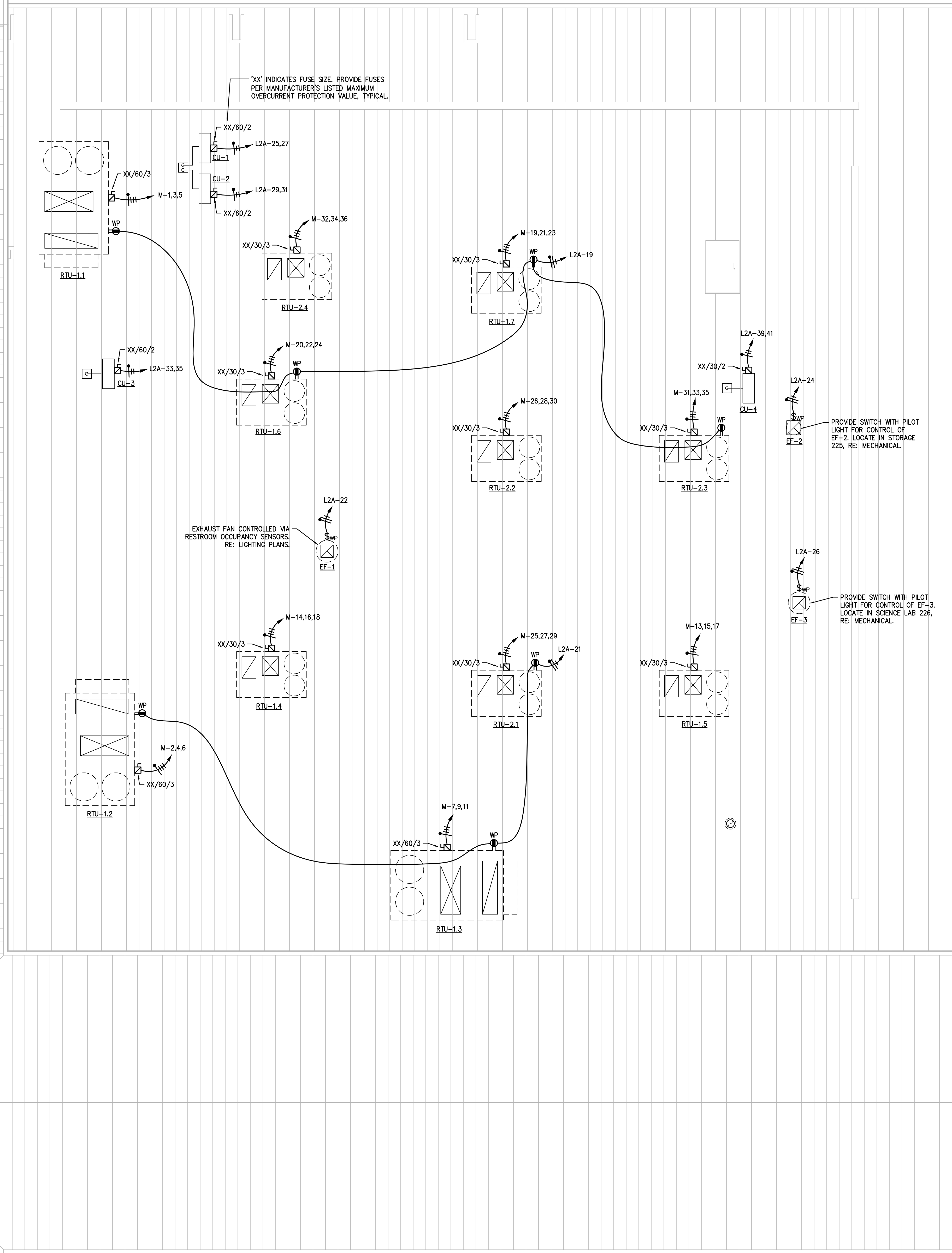
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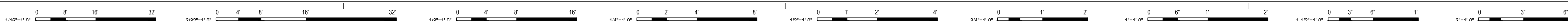
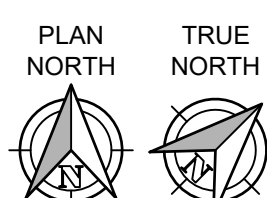
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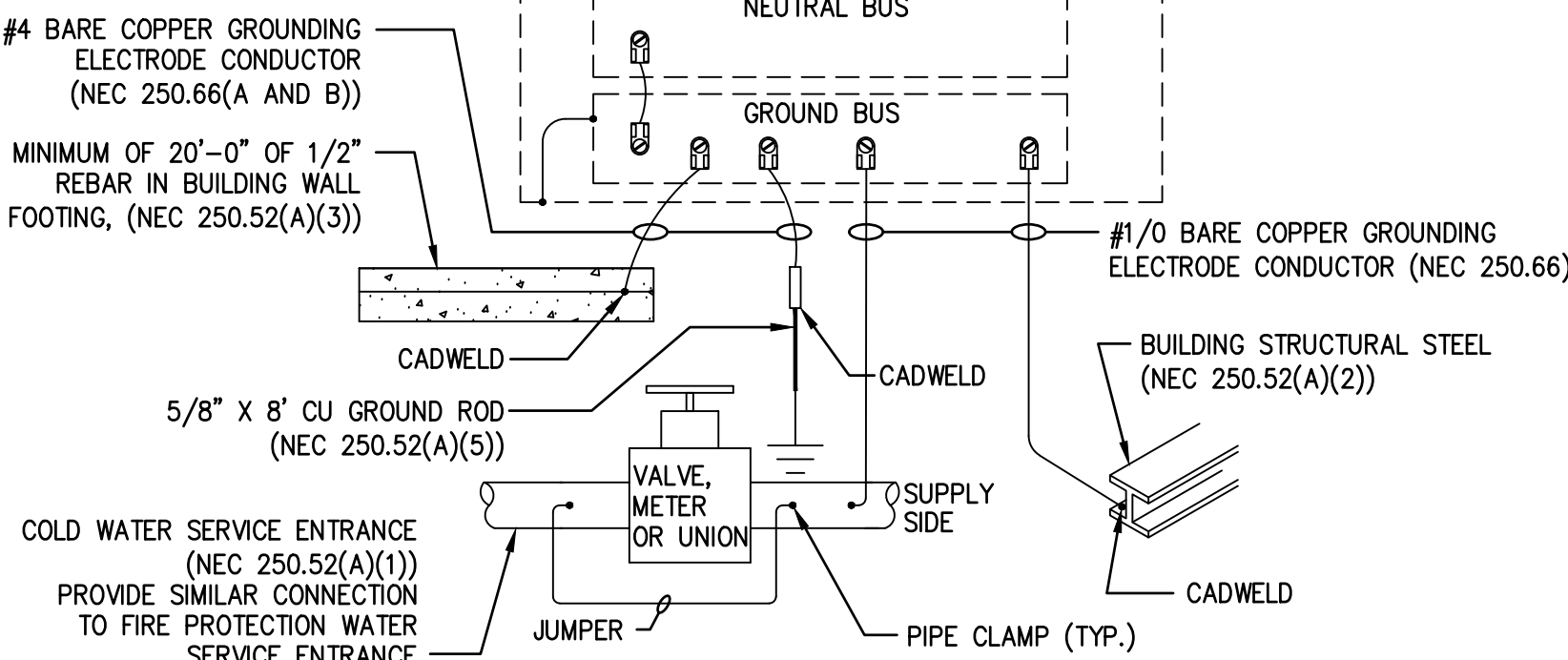
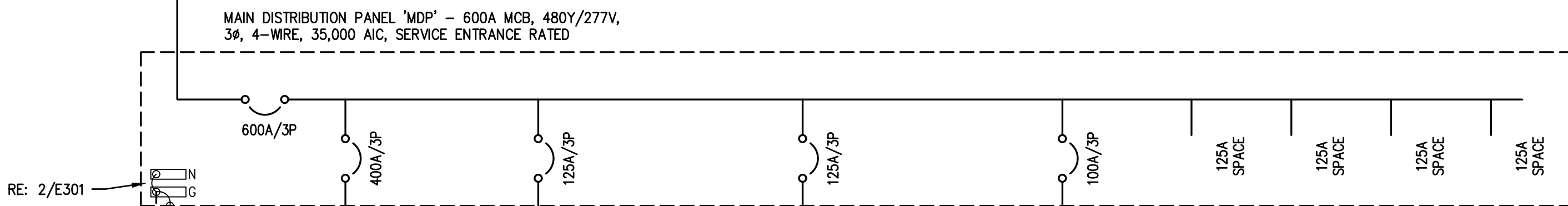
1 ROOF POWER PLAN
SCALE: 3/16" = 1'-0"



	CONNECTED LOAD	DEMAND FACTOR	ADJUSTED LOAD	TOTAL ADJUSTED DEMAND POWER: TOTAL ADJUSTED DEMAND CURRENT:	395.3 KVA 475 A
LIGHTING	17.251	1.00	17.251		
SPECIFIC	57.30	1.00	57.30		
RECEPT - 15T 10KVA	10.00	1.00	10.00		
RECEPT - REMAINING	17.36	1.00	17.36		
MOTOR	46.35	1.00	46.35		
A/C	237.96	1.00	237.96		
HEAT	0.00	0.00	0.00		
KITCHEN	0.00	1.00	0.00		
CONTINUOUS LOAD	29.51	0.25	7.38		
LARGEST MOTOR	41.55	0.25	10.39		

NOTES:

1. CONDUIT SIZES BASED ON EMT W/ THHN WIRING. ADJUST FOR OTHER TYPES.
2. ALL CONDUIT PENETRATING SLAB SHALL BE RIGID GALVANIZED METAL.
3. ALL CONDUIT BELOW GRADE SHALL BE SCH40 PVC WITH LONG SWEEP STEEL ELBOWS.



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PANEL	L2A	MAIN DEVICE BUS RATING AIC RATING BUS MATERIAL	225A MCB 10,000 AMP COPPER	3 PHASE 4 WIRE 208 VOLTS L-L 120 VOLTS L-G			MOUNTING SURFACE ENCLOSURE NEMA 1 SECTIONS SINGLE BRANCH DEVICES CIRCUIT BREAKERS			GROUND BAR YES ISO GROUND BAR NO	
				LOAD KVA	BREAKER PLT AMPS TYPE	KVA A B C	BREAKER PLT AMPS TYPE	LOAD KVA	DESCRIPTION	WIRE SIZE	CKT NO.
1	12	REC - ELEC. STORAGE, STAIRS	0.72	1 20	7.62			ST 100 3	6.90	PANEL L2B	FS 2
3	12	REC - CLASSROOM 208	0.90	1 20	6.90			- - -	6.00		FS 4
5	12	REC - CLASSROOM 207	0.90	1 20		6.90		- - -	6.00		FS 6
7	12	REC - CLASSROOM 206	0.90	1 20	1.80			20 1	0.90	REC - CLASSROOM 228	10 8
9	12	REC - RESTROOMS, JAN	0.72	1 20	1.62			20 1	0.90	REC - CLASSROOM 229	10 10
11	12	IT ROOM 223	1.20	1 20	2.10			20 1	0.90	REC - CLASSROOM 230	10 12
13	12	DRINKING FOUNTAIN	0.35	1 20	1.79			20 1	1.44	FUME HOOD	6 14
15	12	REC - HALL	0.54	1 20	1.50			20 1	0.96	LAB STORAGE REF.	12 16
17	12	REC - HALL	0.36	1 20		1.08		20 1	0.72	REC - WORKROOM 218	12 18
19	12	REC - ROOF	0.72	1 20	0.72			20 1	0.00	SPARE	20
21	10	REC - ROOF	0.54	1 20	1.40			20 1	0.86	EF-1	10 22
23	12	REC - OFFICE 204, 205	1.44	1 20		1.97		20 1	0.53	EF-2	12 24
25	8	CJ-1	2.80	2 40	3.33			20 1	0.53	EF-3	12 26
27	8	CJ-2	2.80	-		3.34		20 1	0.54	REC - GALLERY BALCONY	10 28
29	8	CJ-2	2.80	2 40		2.80		20 1	0.00	SPARE	30
31	8	-	2.80	-		2.80		20 1	0.00	SPARE	32
33	8	CJ-3	2.80	2 40		2.80		20 1	0.00	SPARE	34
35	8	-	2.80	-		0.00		20 1	0.00	SPARE	36
37		BUSSED SPACE	0.00	-				0.00	0.00	BUSSED SPACE	38
39	12	CJ-4	0.94	2 20		0.94		0.00	0.00	BUSSED SPACE	40
41	12	-	0.94	-				0.00	0.00	BUSSED SPACE	42
						16.05	18.50	16.58			
								55.1 KVA		153 A	

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ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, 20A, 125V, 2P GROUNDING TYPE NEMA 5-20R, SPECIFICATION GRADE. WHERE USED, "AC" = ABOVE COUNTER, "WP" = WEATHERPROOF. WHILE-IN-USE COVER. SHADED SYMBOLS INDICATE GROUND FAULT INTERRUPTER.
	QUADRIPEX RECEPTACLE, 20A, 125V, 2P GROUNDING TYPE NEMA 5-20R, SPECIFICATION GRADE. WHERE USED, "AC" = ABOVE COUNTER, "WP" = WEATHERPROOF. WHILE-IN-USE COVER. SHADED SYMBOLS INDICATE GROUND FAULT INTERRUPTER.
	SPECIAL PURPOSE RECEPTACLE, REFER TO PLANS FOR TYPE
	COMMUNICATIONS OUTLET - PROVIDE 4"x4" BOX, SINGLE GANG PLASTER RING, AND 3/4" CONDUIT STUBBED UP ABOVE ACCESSIBLE CEILING. PROVIDE PLASTIC BUSHING AT EACH END OF CONDUIT. PROVIDE (2) CAT 6 CABLES AND JACKS. ROUTE CABLES TO DATA RACK IN NEAREST IT CLOSET, WHERE MARKED "TV", COORDINATE EXACT LOCATION TO AVOID CONFLICT WITH TV MOUNTING BRACKET AND VERIFY REQUIRED CABLEING WITH OWNER OR A/V INSTALLER.
	JUNCTION BOX, 4"x4" DEEP BACK TYPE
	MOTOR, NUMBER INDICATES HORSEPOWER
	GENERAL USE SNAP SWITCH, 20A, 120/277V - SUBSCRIPT "3" OR "4" DENOTES 3-WAY OR 4-WAY SWITCH. LOWER CASE SUBSCRIPT DENOTES FIXTURES TO BE CONTROLLED BY SWITCH. COLOR BY ARCHTECT. PROVIDE 18/2 WIRING FOR DIMMING SIGNAL TO ALL CONNECTED FIXTURES.
	SWITCH W/ 0-10V DIMMER - EATON SF10P OR EQUAL - LOWER CASE SUBSCRIPT DENOTES FIXTURES TO BE CONTROLLED BY SWITCH. COLOR BY ARCHTECT. PROVIDE 18/2 WIRING FOR DIMMING SIGNAL TO ALL CONNECTED FIXTURES.
	DUAL TECHNOLOGY OCCUPANCY SENSOR WALL SWITCH - SENSORWORX SWX-121-WH OR EQUAL. SET FOR AUTO-ON OPERATION. SET DELAY TO 5 MINUTES.
	DUAL TECHNOLOGY LINE VOLTAGE CEILING MOUNT OCCUPANCY SENSOR SWITCH - SENSORWORX SWX-221-2 OR EQUAL. SET DELAY TO 15 MINUTES. PROVIDE "OVERRIDE OFF" SWITCH BETWEEN SENSOR AND LOAD.
	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH THERMAL OVERLOADS
	FUSED DISCONNECT SWITCH - HEAVY DUTY TYPE. UNLESS NOTED OTHERWISE, NEMA 1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONS. FUSE SIZE NUMBER OF POLES FRAME SIZE
	NON-FUSED DISCONNECT SWITCH - HEAVY DUTY TYPE. UNLESS NOTED OTHERWISE, NEMA 1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONS. NUMBER OF POLES FRAME SIZE
	PUSHBUTTON
	BRANCH CIRCUIT HOMERUN - DOTTED TICK MARK INDICATES EQUIPMENT GROUND, LONG TICK MARK INDICATES NEUTRAL. SHORT TICK MARK INDICATES PHASE. CONDUCTOR, PANELBOARD AND CIRCUIT NUMBERS IDENTIFIED ON PLANS.
	RACEWAY TURNED UP
	RACEWAY TURNED DOWN
	PANELBOARD
NOTES: 1. NOT ALL SYMBOLS SHOWN ON LEGEND MAY BE USED IN THESE DRAWINGS.	

TYPICAL DEVICE MOUNTING HEIGHTS	
DEVICE	MOUNTING HEIGHT
RECEPTACLES	18" AFF
RECEPTACLES ABOVE COUNTER TOPS	6" ABOVE COUNTER OR TOP OF BACKSPASH
TELEPHONE OUTLETS	18" AFF
TELEPHONE OUTLETS (WALL MOUNT)	48" AFF
DATA OUTLETS	18" AFF
LIGHT SWITCHES	46" AFF
EXIT SIGNS	12" ABOVE DOOR TO BOTTOM OF SIGN
EMERGENCY LIGHTS (WALL MOUNT)	8'-0" AFF
A/V OUTLETS	18" AFF
NOTES: 1. ALL DIMENSIONS SHOWN ARE TO CENTER OF DEVICE BOX UNLESS OTHERWISE NOTED. MOUNTING HEIGHTS ON ELECTRICAL PLANS SHALL SUPERCEDE THIS TABLE. 2. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR ALL DEVICE MOUNTING DIMENSIONS. DIMENSIONS ON ARCHITECTURAL PLANS SHALL SUPERCEDE THIS TABLE AND ELECTRICAL PLANS.	

ABBREVIATIONS	
A, AMP	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL	ALUMINUM
C	CONDUIT
CKT	CIRCUIT
CLG	CEILING
CT	CURRENT TRANSFORMER
CU	COPPER, CONDENSING UNIT
EF	EXHAUST FAN
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWB	ELECTRIC WATER HEATER, ELECTRIC WALL HEATER
(E)	EXISTING
FLR	FLOOR
GFI	GROUND FAULT INTERRUPTER
G, GND	GROUND
HP	HORSEPOWER
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KVA	KILOVOLT AMPERE
LTO	LIGHTING
MC	METAL CLAD
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MTG	MOUNTING
N	NEUTRAL
(N)	NEW
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
P	POLE
PART	PARTIAL CIRCUIT HOMERUN
PH	PHASE
PVC	POLYVINYL CHLORIDE
(R)	RELOCATED
REC, RECEPT	RECEPTACLE
REQD	REQUIRED
RGS	RIGID GALVANIZED STEEL
RM	ROOM
TEL	TELEPHONE
TYP	TYPICAL
UC	UNDER COUNTER
UH	UNIT HEATER
UNQ	UNLESS OTHERWISE NOTED
V	VOLT
W	WIRE
WP	WEATHERPROOF
Ø	PHASE
NOTES: 1. NOT ALL ABBREVIATIONS MAY BE USED IN THESE DRAWINGS.	

FIRE ALARM SYSTEM (CONTRACTOR DESIGN)	
THE FIRE ALARM SYSTEM SHALL BE DESIGN/BUILD BY THE CONTRACTOR. DOCUMENTS SHALL BE PREPARED AND SUBMITTED TO OBTAIN APPROVAL BY LOCAL MUNICIPALITIES. ALL FIRE ALARM SHOP DRAWINGS SHALL BE STAMPED AND SIGNED BY A REGISTERED NICET LEVEL III FIRE ALARM DESIGNER. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS THAT MEET THE REQUIREMENTS OF LOCAL JURISDICTION.	
1. SYSTEM SHALL MEET ALL CODE, LOCAL JURISDICTIONAL REQUIREMENTS AND COMPLY WITH THE LATEST APPLICABLE PROVISIONS OF NFPA 70, NFPA 72, ADA, IBC, AND IFB, EXCEPT AS MODIFIED BY THE LOCAL JURISDICTION.	
2. THE FIRE ALARM SYSTEM SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING: ADDRESSABLE DETECTION (HEAT/SMOKE) DEVICES, NOTIFICATION DEVICES, MANUAL PULL-STATIONS, MAGNETIC DOOR HOLDER DEVICES, SMOKE DAMPER CONTROL, ETC.	
3. DETECTORS SHALL BE LOCATED AND INSTALLED IN ACCORDANCE WITH NFPA 72 AND LOCAL JURISDICTIONAL REQUIREMENTS. DETECTORS INSTALLED IN ANY CONCEALED LOCATIONS SHALL HAVE A REMOTE VISIBLE LED INDICATOR.	
4. NOTIFICATION DEVICES SHALL BE LOCATED AS REQUIRED BY LOCAL CODE AT LEAST 80 INCHES FROM FINISHED FLOOR.	
5. ALL RATED PENETRATIONS SHALL BE FIRE SEALED.	
6. FIRE ALARM DRAWINGS MUST BE SUBMITTED TO THE OWNER PRIOR TO SUBMITTAL TO CITY FOR APPROVAL.	

GENERAL NOTES (APPLIES TO ALL SHEETS)

- PRIOR TO SUBMITTING BIDS, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING ELECTRICAL EQUIPMENT CONDITIONS AND IDENTIFY ANY DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. FIELD VERIFY EXISTING CONDITIONS WHICH MODIFY THE SCOPE OF WORK AS SHOWN ON THE CONSTRUCTION DOCUMENTS. SUBMISSION OF A BID PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE.
- ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ALL WORK WITH OWNER REPRESENTATIVES. ALL ELECTRICAL WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM WITH LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, LOCAL BUILDING AND FIRE DEPARTMENT REQUIREMENTS, AND INDUSTRY RECOGNIZED BEST PRACTICES. ALL COMPONENTS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN ON THE JOB AN UP TO DATE SET OF WORKING DRAWINGS, MARKED UP TO SHOW ELECTRICAL SYSTEMS AS INSTALLED. PROVIDE TENANT REPRESENTATIVES WITH ONE SET OF REPRODUCIBLES WITH AS-BUILT PROJECT RECORD INFORMATION CLEARLY INDICATED. ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL LOCAL FEES, PERMITS, AND SERVICES OF INSPECTION AUTHORITIES REQUIRED BY LOCAL JURISDICTION FOR THIS ELECTRICAL CONSTRUCTION.
- REFER TO ARCHITECTURAL AND MECHANICAL EQUIPMENT DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL DEVICES AND LIGHT FIXTURES. DO NOT SCALE FROM THE ELECTRICAL PLANS. ADDITIONAL ELECTRICAL REQUIREMENTS ON ARCHITECTURAL AND MECHANICAL PLANS SHALL BE INCLUDED IN THE ELECTRICAL CONTRACTOR'S BID.
- THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF ELECTRICAL WORK. LOCATIONS ARE APPROXIMATE AND SHALL BE SUBJECT TO MINOR MODIFICATIONS AS DIRECTED BY THE GENERAL CONTRACTOR AND OWNER REPRESENTATIVES. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT FITTING OF ALL MATERIALS, EQUIPMENT, ETC., IN THE BUILDING AND TENANT SPACE. ALL DIMENSIONS SHALL BE VERIFIED ON THE JOB.
- ELECTRICAL CONTRACTOR SHALL CUT, CHANNEL, CHASE AND/OR DRILL FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES AS REQUIRED FOR INSTALLATION, SUPPORT, ANCHORAGE, ETC., OF WORK. PROVIDE X-RAY OF FLOOR PRIOR TO CORE DRILLS. THE GENERAL CONTRACTOR SHALL DO PATCHING WORK.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED SO THAT ALL CODE-REQUIRED AND MANUFACTURER-RECOMMENDED SERVING CLEARANCES ARE MAINTAINED. INSTALLATIONS SHALL FULLY COMPLY WITH ARTICLES 110.26 AND 408 OF THE NATIONAL ELECTRICAL CODE FOR CLEARANCE REQUIREMENTS. NOTIFY ENGINEER IN WRITING IF THESE REQUIREMENTS CANNOT BE MET.
- UPON FINAL LOAD TESTING OF PANELBOARDS, THE LOAD SHALL BE EVENLY DISTRIBUTED ACROSS ALL THREE PHASES FOR A THREE PHASE SYSTEM. IF IT IS FOUND THAT THE LOAD IMBALANCE EXCEEDS 15 PERCENT BETWEEN ANY TWO PHASES, RECONNECT BRANCH CIRCUITS AS NECESSARY TO ACHIEVE A BALANCED LOAD.
- PROVIDE COMPLETE AND ACCURATE TYPED PANELBOARD CIRCUIT DIRECTORIES AT THE COMPLETION OF WORK. CLEAN EXPOSED PANELBOARD SURFACES AND CHECK TIGHTNESS OF ELECTRICAL CONNECTIONS. REPLACE DAMAGED CIRCUIT BREAKERS AS REQUIRED AND PROVIDE CLOSURE PLATES FOR VACANT SPACES.
- ALL CIRCUIT BREAKER LUGS SHALL BE RATED FOR A MINIMUM OF 75 DEGREES CELSIUS.
- ALL NEW AND MODIFIED ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT PER ARTICLE 110.16 OF THE NATIONAL ELECTRICAL CODE.
- WHERE AN INDIVIDUALLY MOUNTED SAFETY SWITCH, STARTER, OR CIRCUIT BREAKER IS SHOWN ADJACENT TO ITS RESPECTIVE LOAD AND NOT MOUNTED ON A WALL, PROVIDE ALL SUPPORTS, BRACKETS, ANCHORING, ETC. NECESSARY TO PROPERLY SUPPORT THE DEVICE.
- NEUTRALS, RACEWAYS, AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED AND BONDED IN FULL ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR CONTINUOUS IN EACH CIRCUIT.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD ROUTING OF ALL BRANCH CIRCUITS AND FEEDERS INDICATED ON PLANS. PULL BOXES, OUTLET BOXES, ELBOWS, WIREWAYS, FITTINGS, ANCHORS, SUPPORTS, ETC. SHALL BE PROVIDED FOR THIS PURPOSE. CONTRACTOR IS RESPONSIBLE FOR PROPER SIZING OF SUCH MATERIALS TO ENSURE ADEQUATE CONDUCTOR CAPACITY AND BENDING SPACE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL REQUIREMENTS.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL WIRES AND MARKED WITH A UNIQUE IDENTIFIER AT EACH END.
- ALL PENETRATIONS THROUGH FIRE-RATED WALLS OR OTHER SURFACES SHALL BE REPAIRED AND SEALED WITH A LISTED DEVICE OR MATERIAL TO MAINTAIN THE ORIGINAL FIRE RATING.
- ALL JUNCTION BOX COVERS SHALL BE INDELIBLY LABELED WITH PANEL DESIGNATION AND BRANCH CIRCUIT NUMBER OF EACH WIRE WITHIN THE JUNCTION BOX. ALL HOMERUNS SHALL BE IN EMT CONDUIT.
- ALL MOUNTING HEIGHTS ARE GIVEN TO THE CENTERLINE OF THE DEVICE UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL DEVICES SHALL BE GENERALLY ALIGNED WITH THE ARCHITECTURAL FEATURES. DEVICES FOR VARIOUS SYSTEMS LOCATED IN THE SAME GENERAL AREA SHALL BE INSTALLED TOGETHER (ALIGNED) AT THEIR RESPECTIVE MOUNTING HEIGHTS. ANY DIMENSIONING SHOWN SHALL SUPERSEDE THIS GUIDANCE.
- ALL NEW LIGHT SWITCHES, POWER OUTLETS, TELEPHONE OUTLETS, FIRE ALARM DEVICES, AND COMMUNICATIONS OUTLETS SHALL MEET THE REQUIREMENTS FOR AMERICANS WITH DISABILITIES ACT (A.D.A.) MOUNTING HEIGHTS AND ORIENTATIONS. RECEPTACLES SHALL BE A MINIMUM OF 18" A.F.F. AND SWITCHES A MAXIMUM OF 48" A.F.F. TO CENTERLINE UNLESS OTHERWISE NOTED.
- EWG RECEPTACLES SHALL BE INSTALLED OUT OF VIEW AND BEHIND THE ENCLOSURE OF DRINKING FOUNTAINS. VERIFY MOUNTING HEIGHT WITH EQUIPMENT SUPPLIER.
- WHERE A MULTIPLE-GANG BOX HAS CIRCUITS OF DIFFERENT VOLTAGES OR SYSTEMS WHICH ARE REQUIRED TO BE SEPARATED, PROVIDE THE CODE-REQUIRED SEPARATION USING A FULL HEIGHT AND DEPTH BARRIER PLATE.
- ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL EQUIPMENT LOCATIONS AND REQUIREMENTS WITH MECHANICAL PLANS, MECHANICAL CONTRACTOR, AND ACTUAL MECHANICAL EQUIPMENT SUPPLIED. INCLUDE IN BID ALL OUTLETS, DISCONNECT SWITCHES, FUSES, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
- ALL MOTOR STARTERS AND DISCONNECTS INDICATED ON DRAWINGS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR, EXCEPT WHEN PROVIDED AS PART OF THE EQUIPMENT. ALL FINAL POWER CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE BY THE ELECTRICAL CONTRACTOR AND SHALL COMPLY WITH MANUFACTURER REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY WIRING DIAGRAMS FROM THE DIVISION 15 CONTRACTOR TO AID IN FINAL CONNECTIONS TO MECHANICAL EQUIPMENT.
- REFER TO MECHANICAL SHEETS FOR EXACT LOCATIONS OF THERMOSTATS, FAN SWITCHES, HUMIDISTATS, OR CONTROL DEVICES FURNISHED BY THE MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN FOR SUCH DEVICES AT THESE LOCATIONS. CONTROL AND SENSOR WIRING AND CONNECTIONS FOR EQUIPMENT FURNISHED BY OTHER CONTRACTORS WILL BE PROVIDED BY THE RESPECTIVE CONTRACTOR, UNLESS NOTED OTHERWISE.
- ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY FROM STRUCTURE. DO NOT SUPPORT FROM OR ATTACH TO ROOF DECK.
- COORDINATE LOCATIONS OF EACH LIGHT FIXTURE WITH THE REFLECTED CEILING PLANS. FOR LIGHT FIXTURES INSTALLED IN MECHANICAL AREAS, COORDINATE EACH FIXTURE LOCATION TO AVOID MECHANICAL PIPING, EQUIPMENT, AND DUCTWORK. SUSPEND EACH FIXTURE TO A POINT JUST BELOW THE ADJACENT DUCTWORK AND LOCATE TO PERMIT ADEQUATE LIGHTING OF ALL EQUIPMENT.
- CONNECT EMERGENCY BATTERY PACKS INSTALLED IN LIGHTING FIXTURES AHEAD OF SWITCHING SO THAT LAMPS CAN BE TURNED OFF WHILE LEAVING THE BATTERY CHARGER AND BATTERIES IN OPERATION AND STANDBY CONDITION AT ALL TIMES. FIXTURES DESIGNATED AS NIGHT LIGHTS SHALL BE CONNECTED UNSWITCHED.

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EVERGREEN BAPTIST
CHURCH - PHASE 5

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REVISIONS

ELECTRICAL LEGENDS
AND NOTES

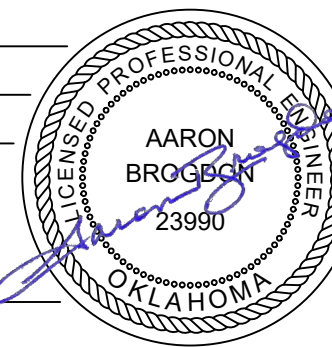
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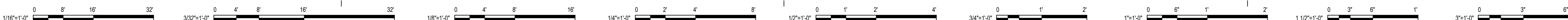
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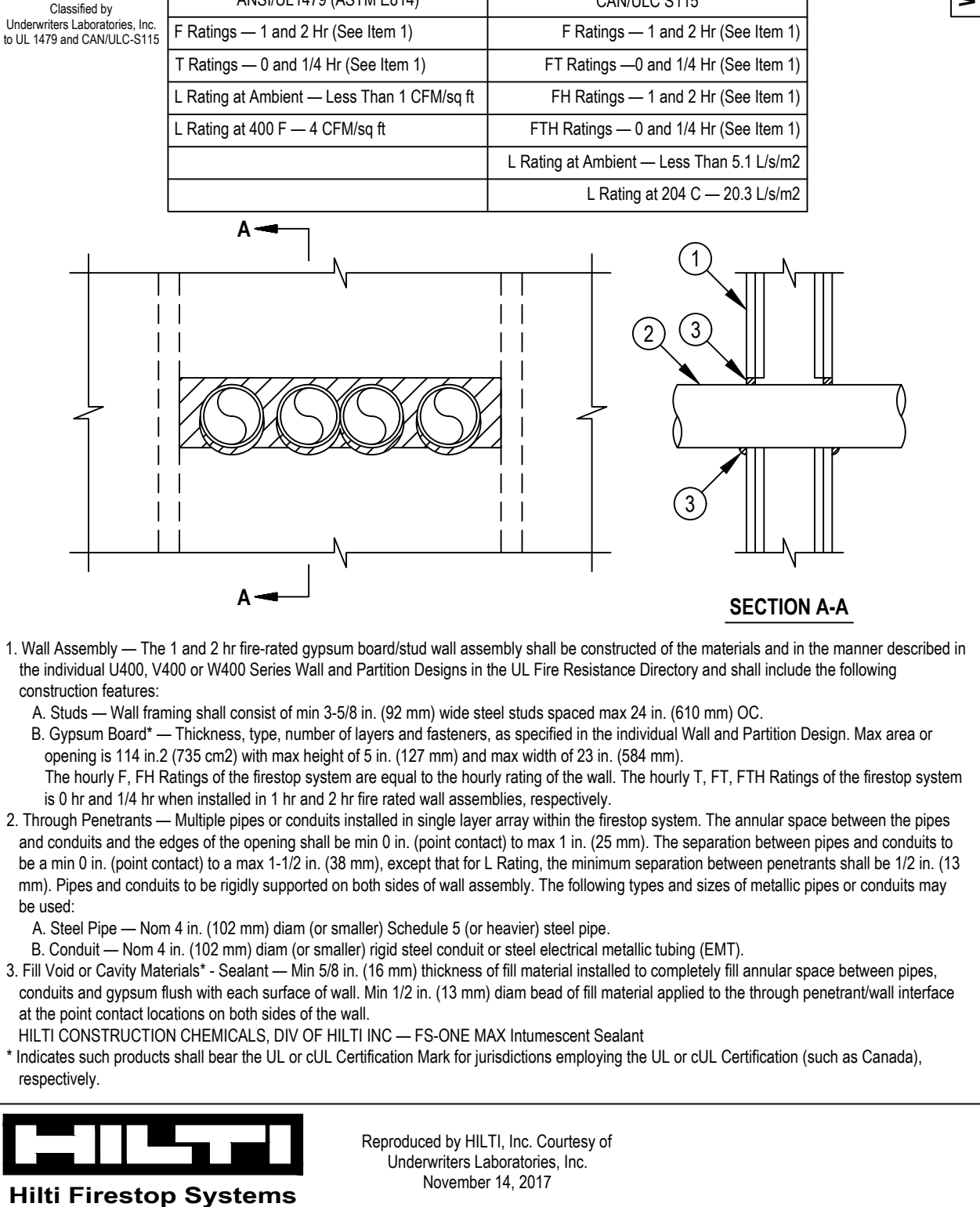
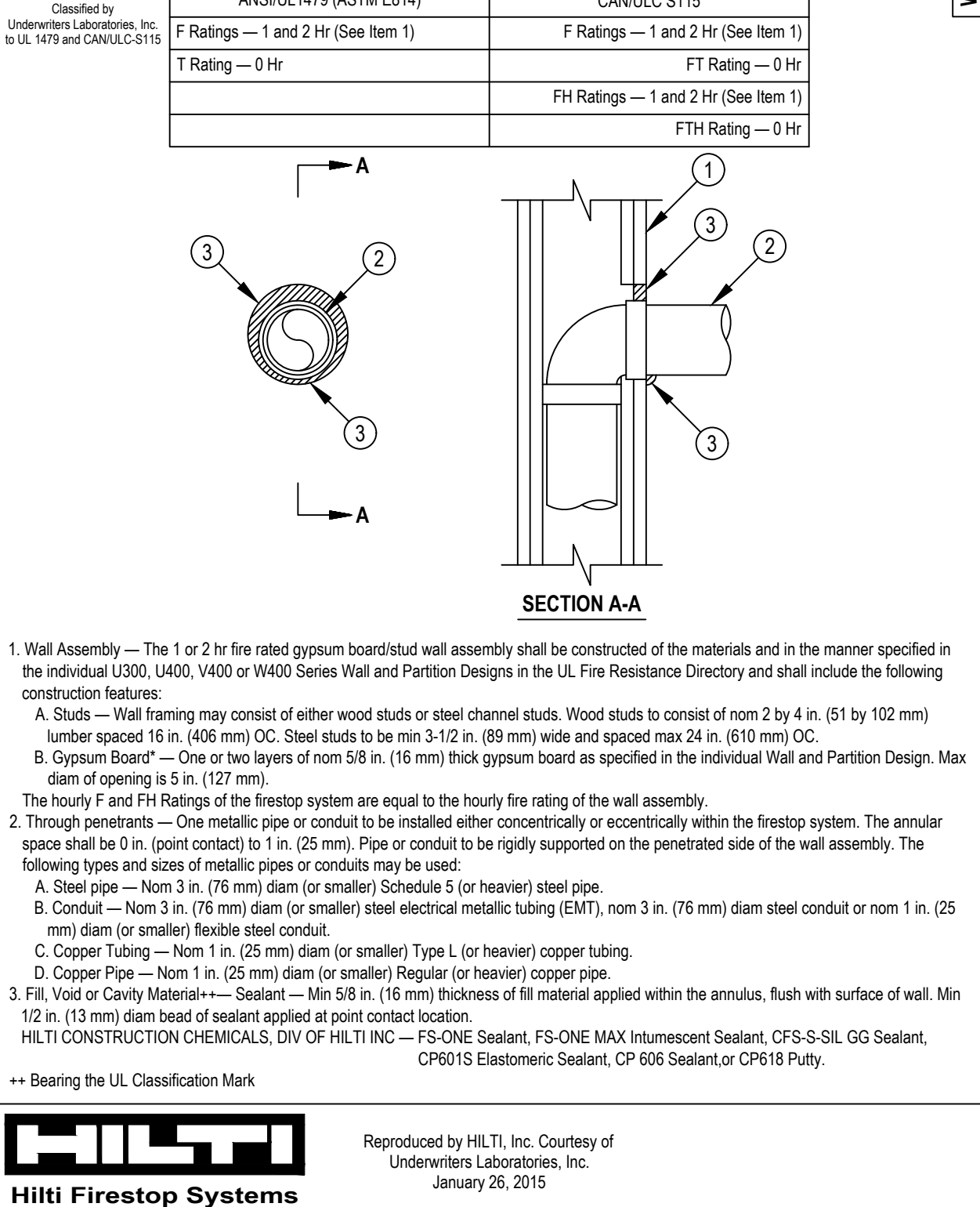
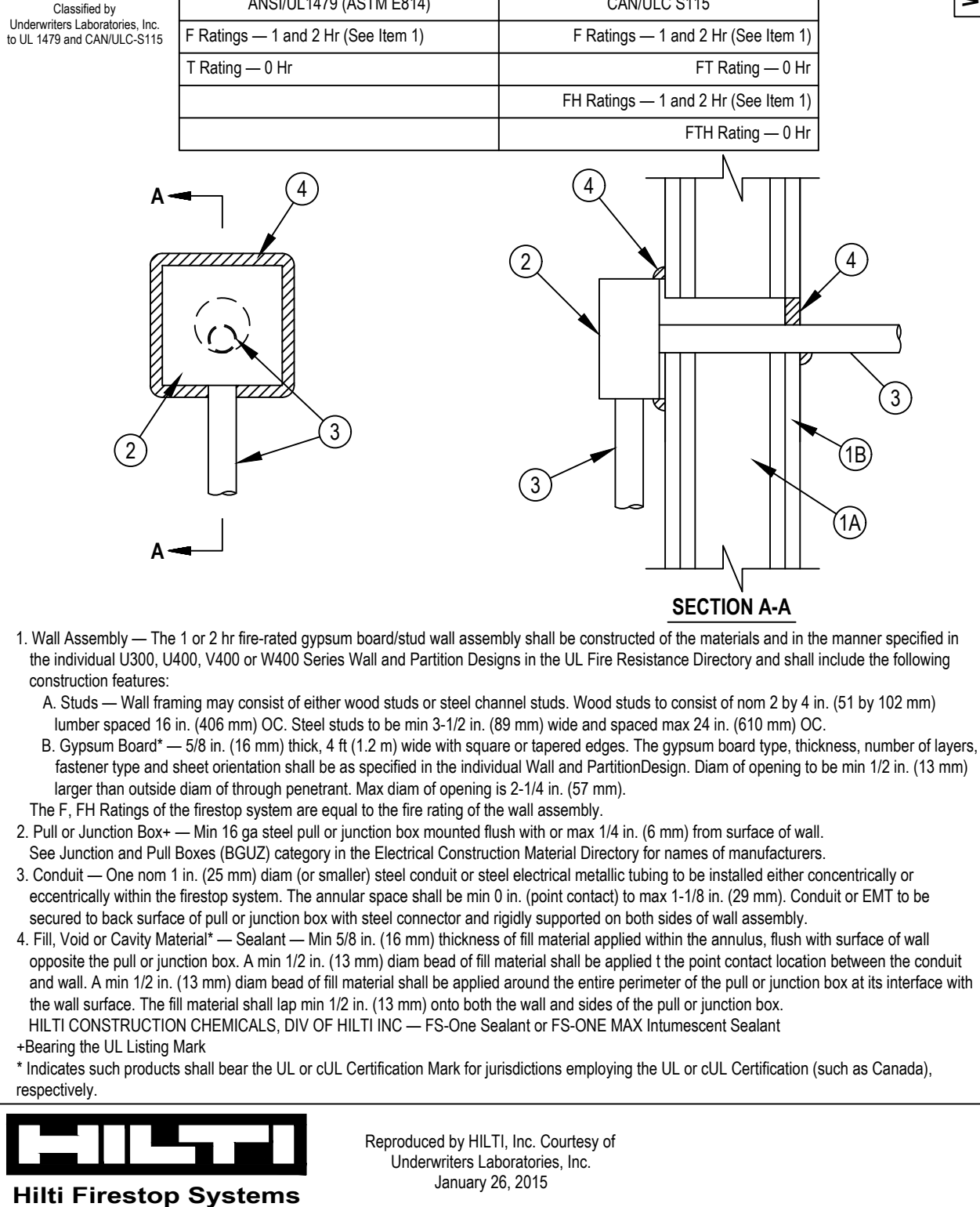
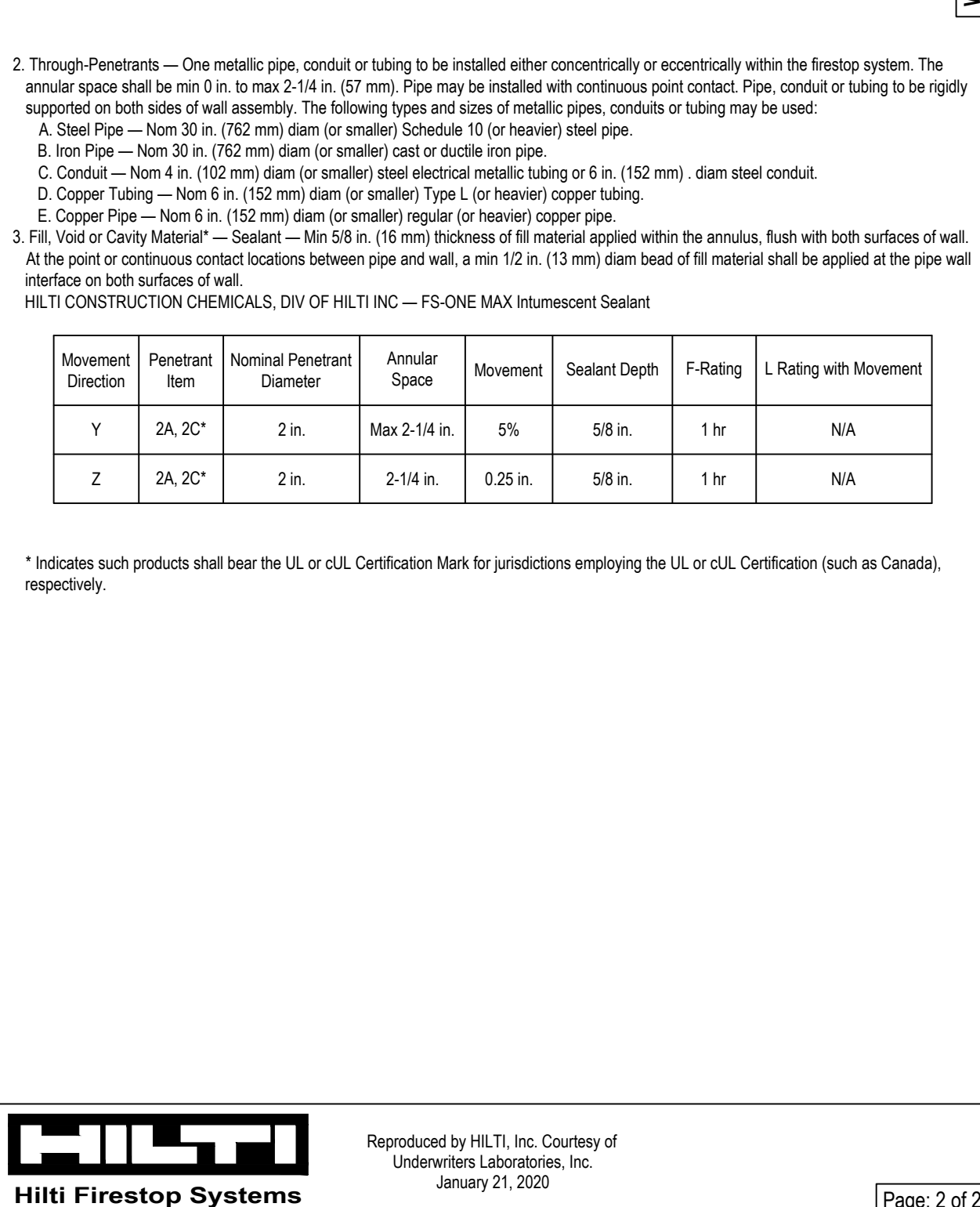
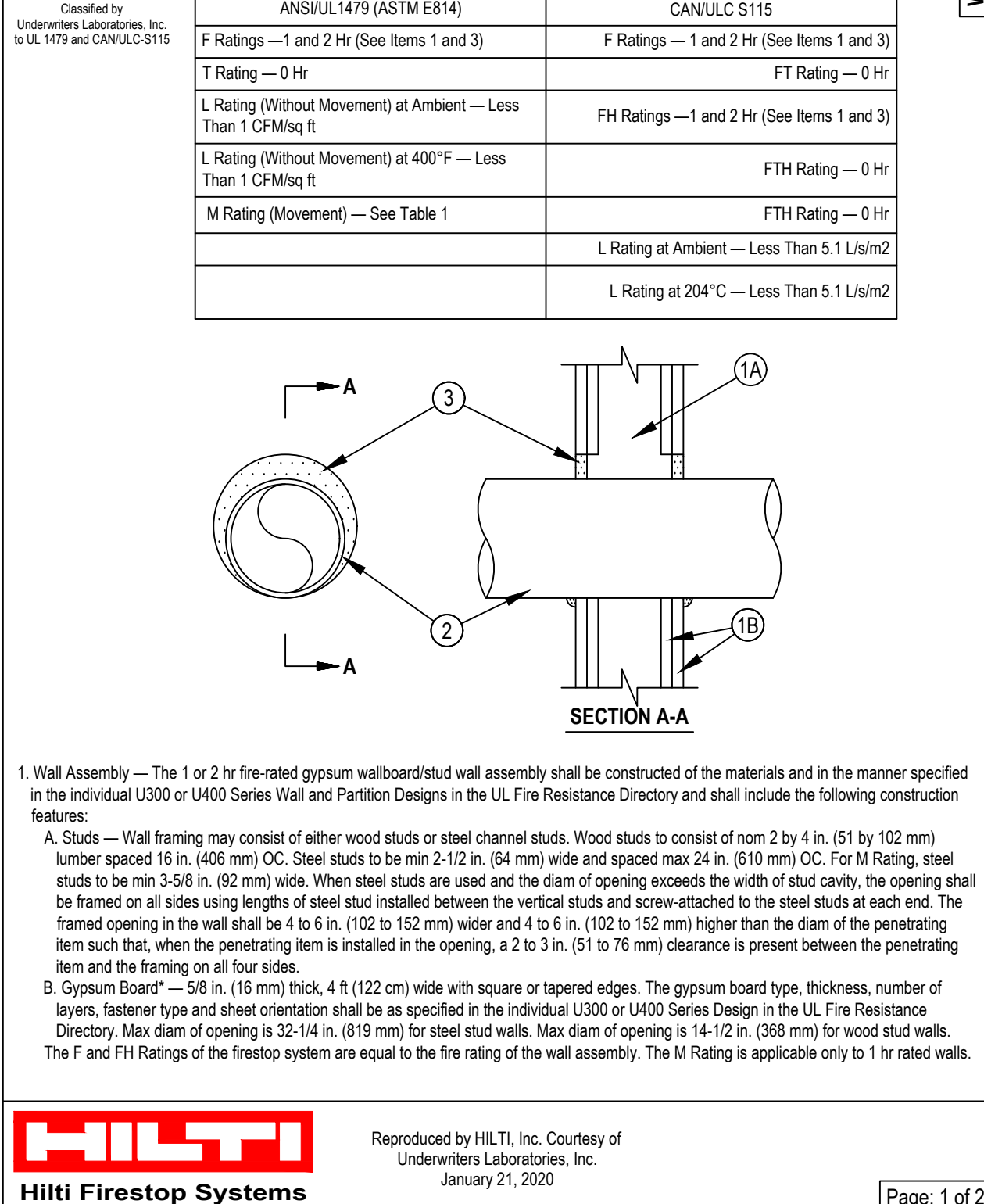
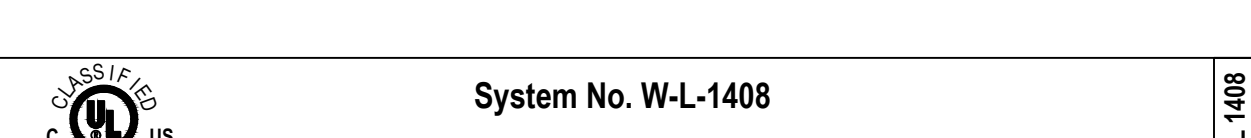
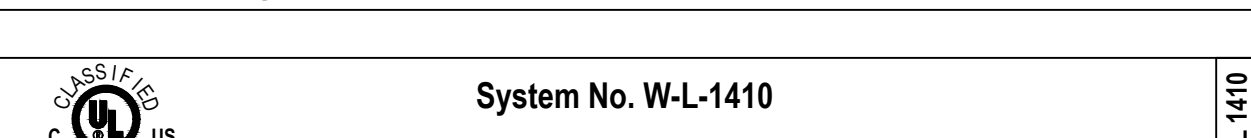
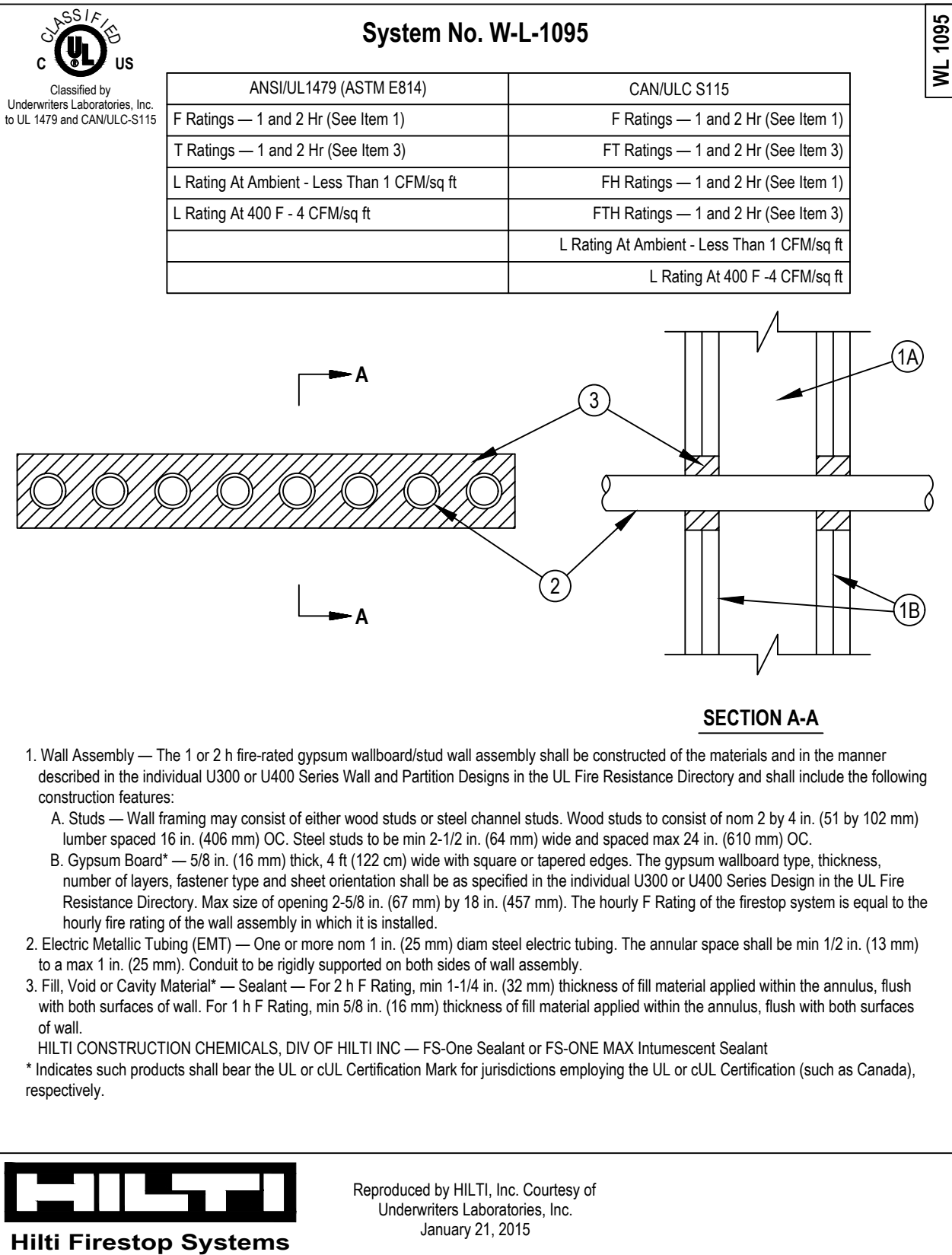
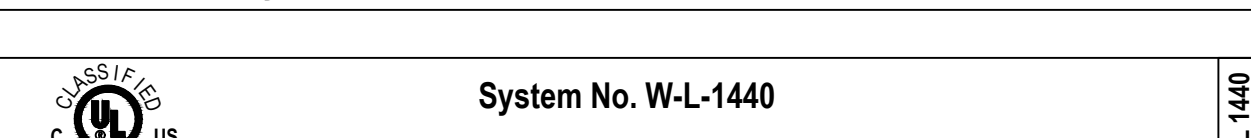
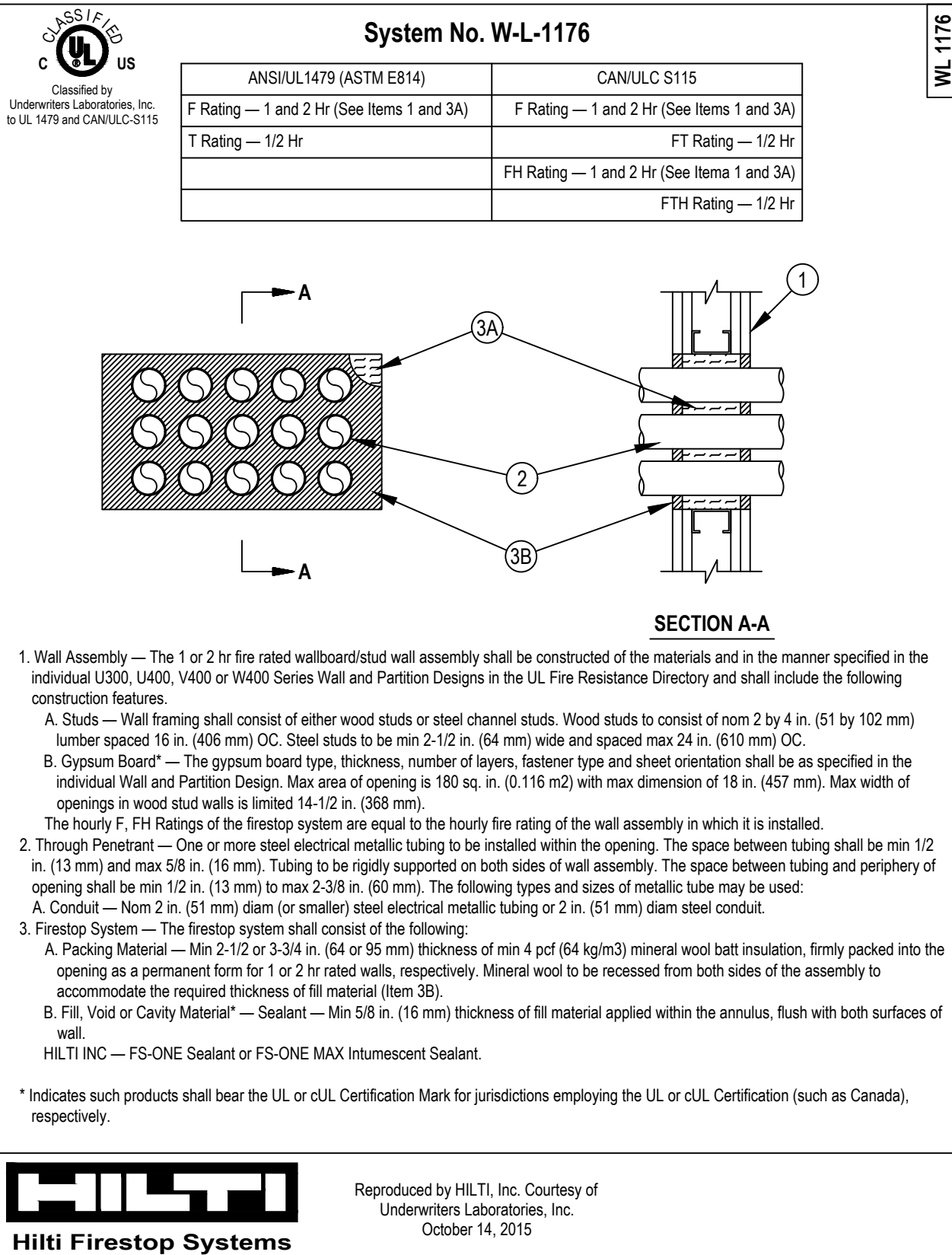
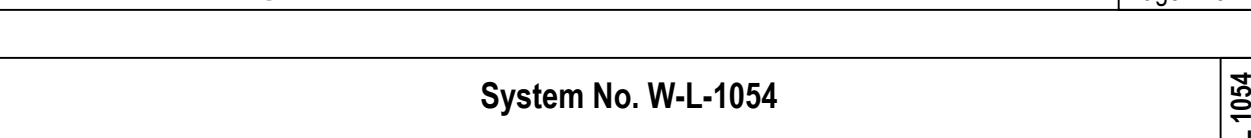
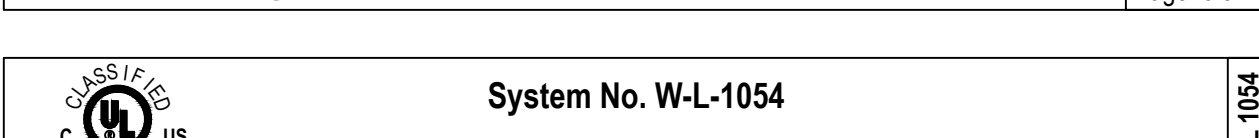
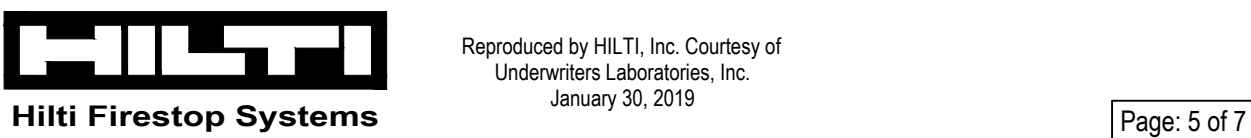
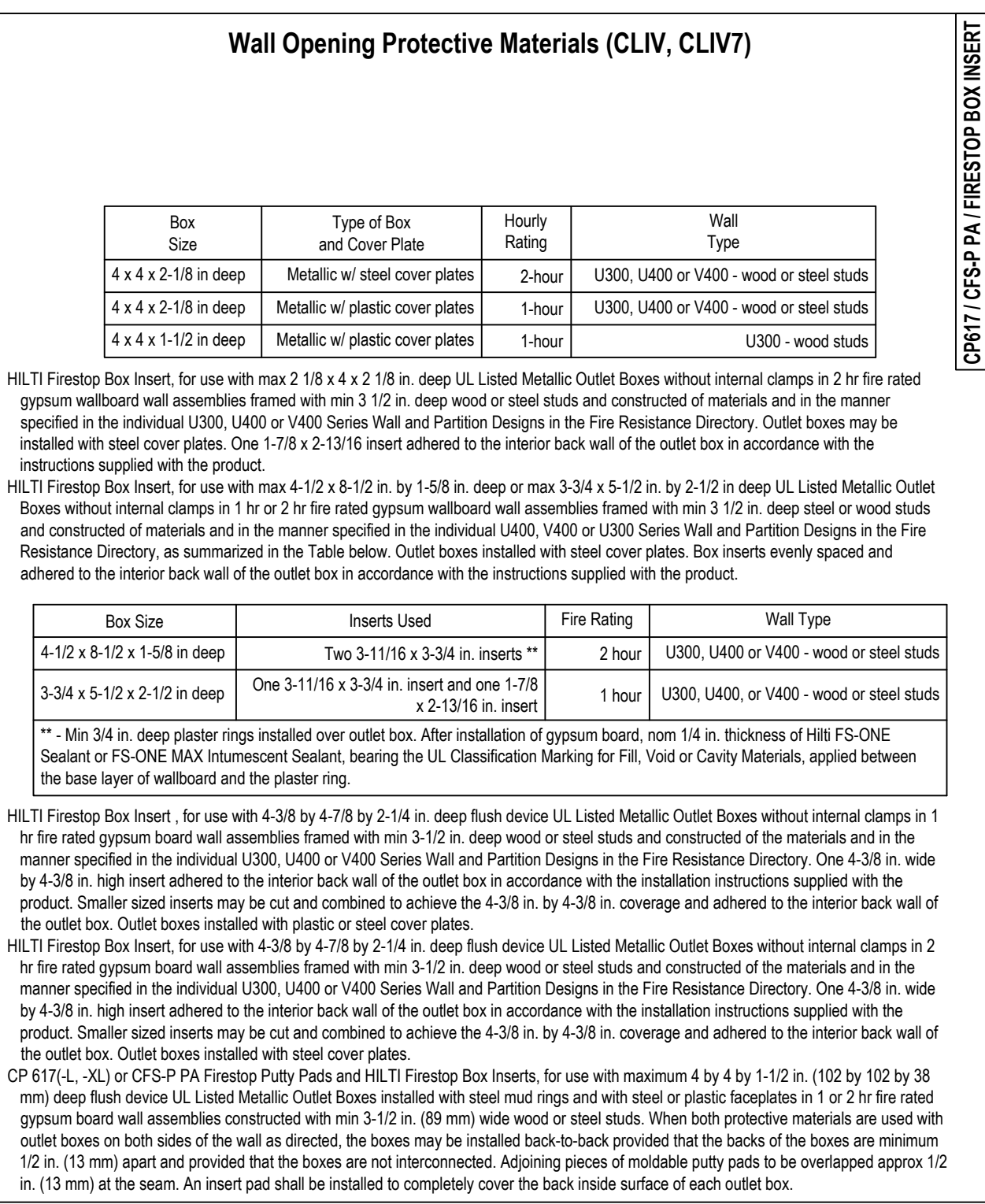
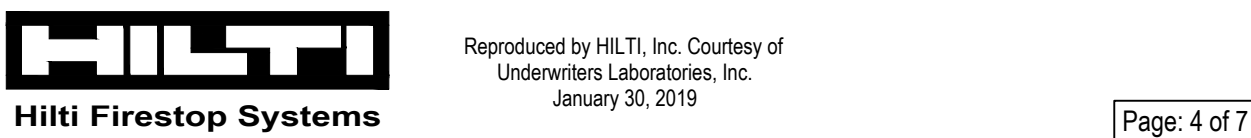
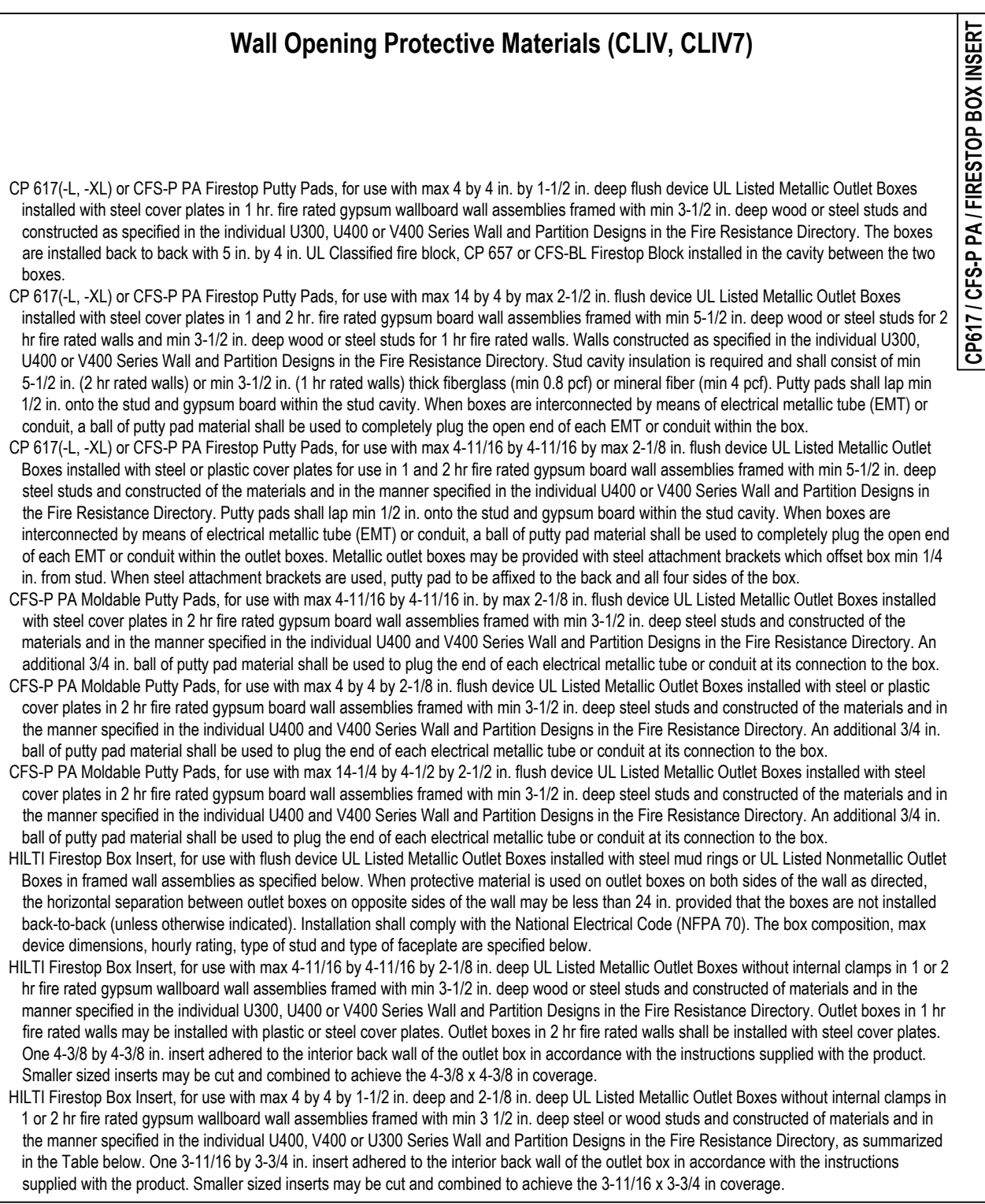
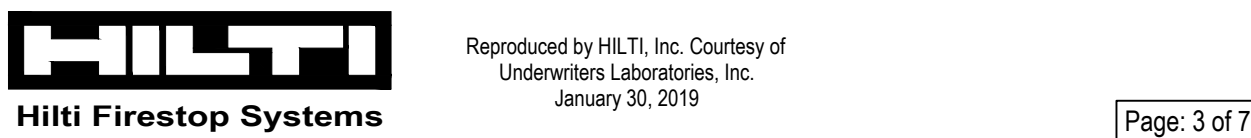
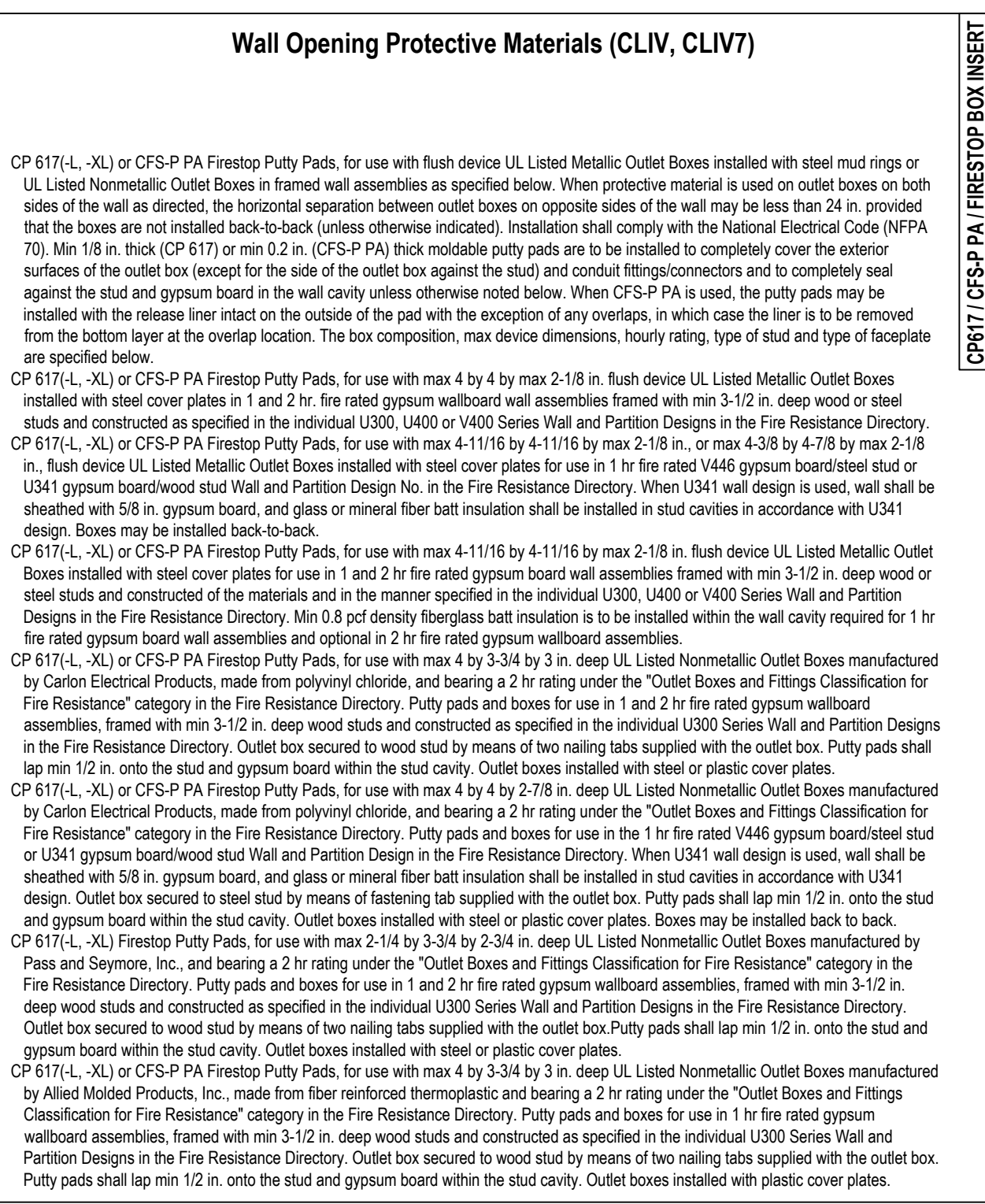
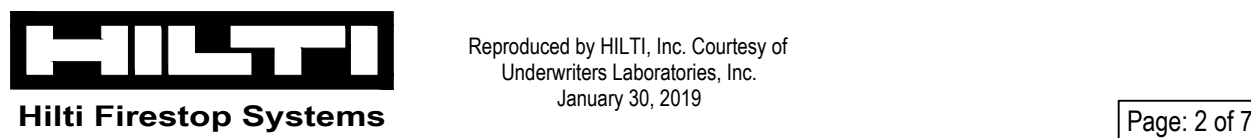
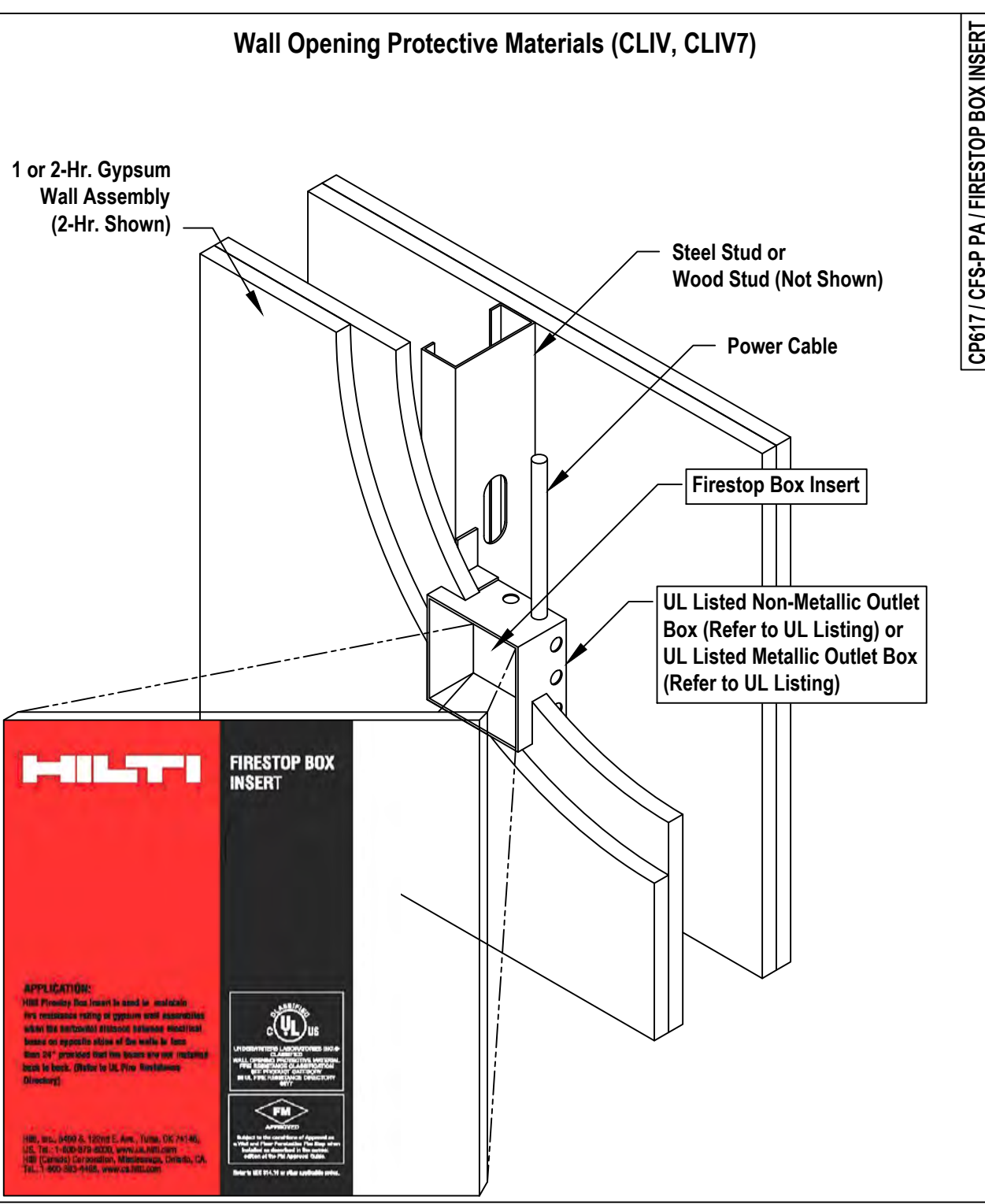
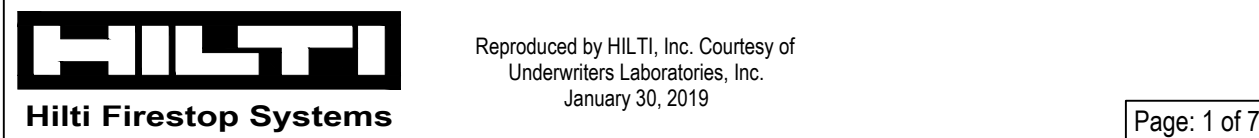
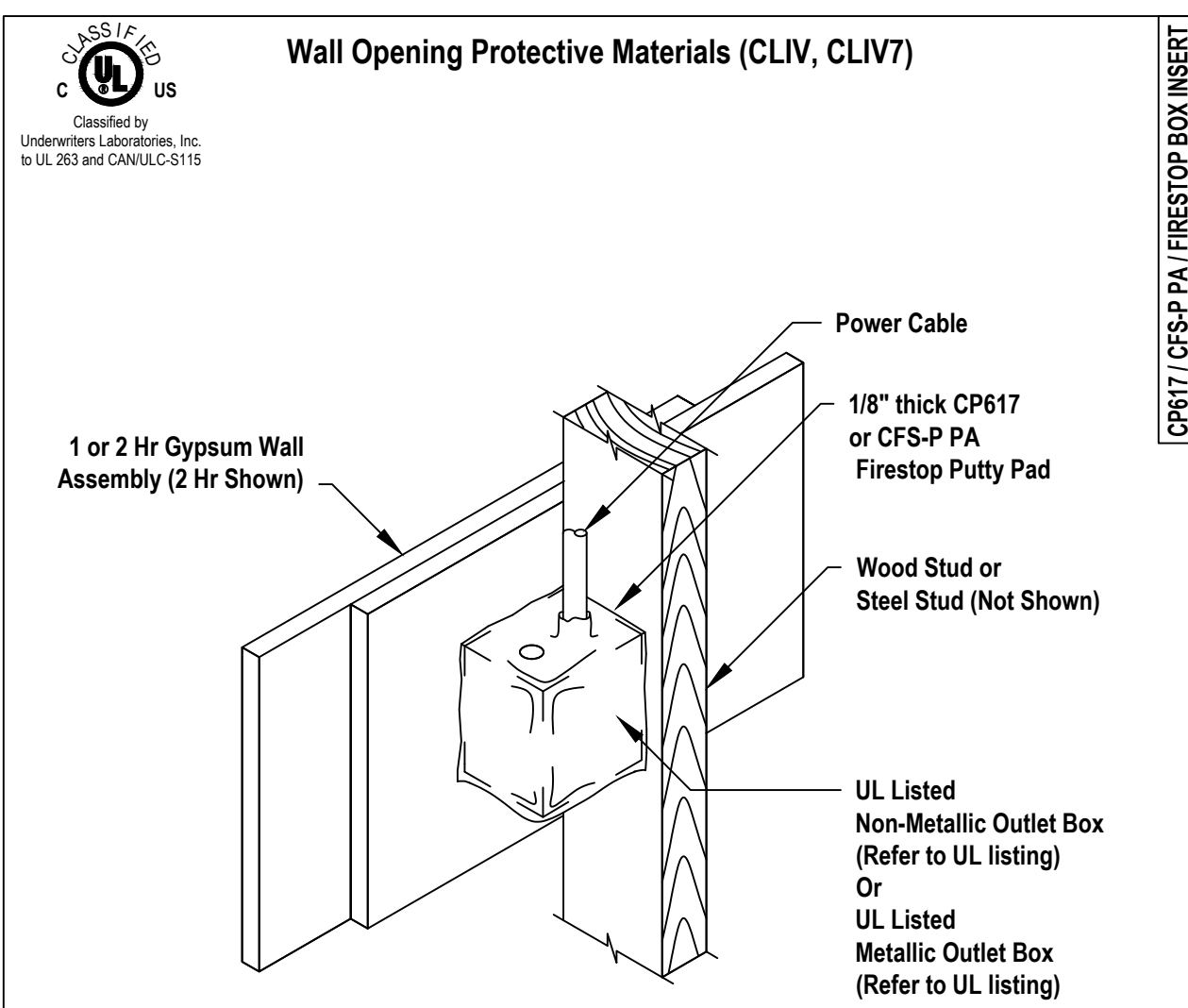
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ALL WORK TO BE IN ACCORDANCE WITH THE 2020 NATIONAL
ELECTRICAL CODE AND ALL LOCAL AMENDMENTS.



3-3-25





"The Team You Trust"

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EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S. BROKEN ARROW, OKLAHOMA 74011

REVISIONS

NO.	DATE	DESCRIPTION
1	03/14/2025	CITY COMMENTS
2	04/10/2025	REVISION #2

ELECTRICAL FIRE STOP DETAILS

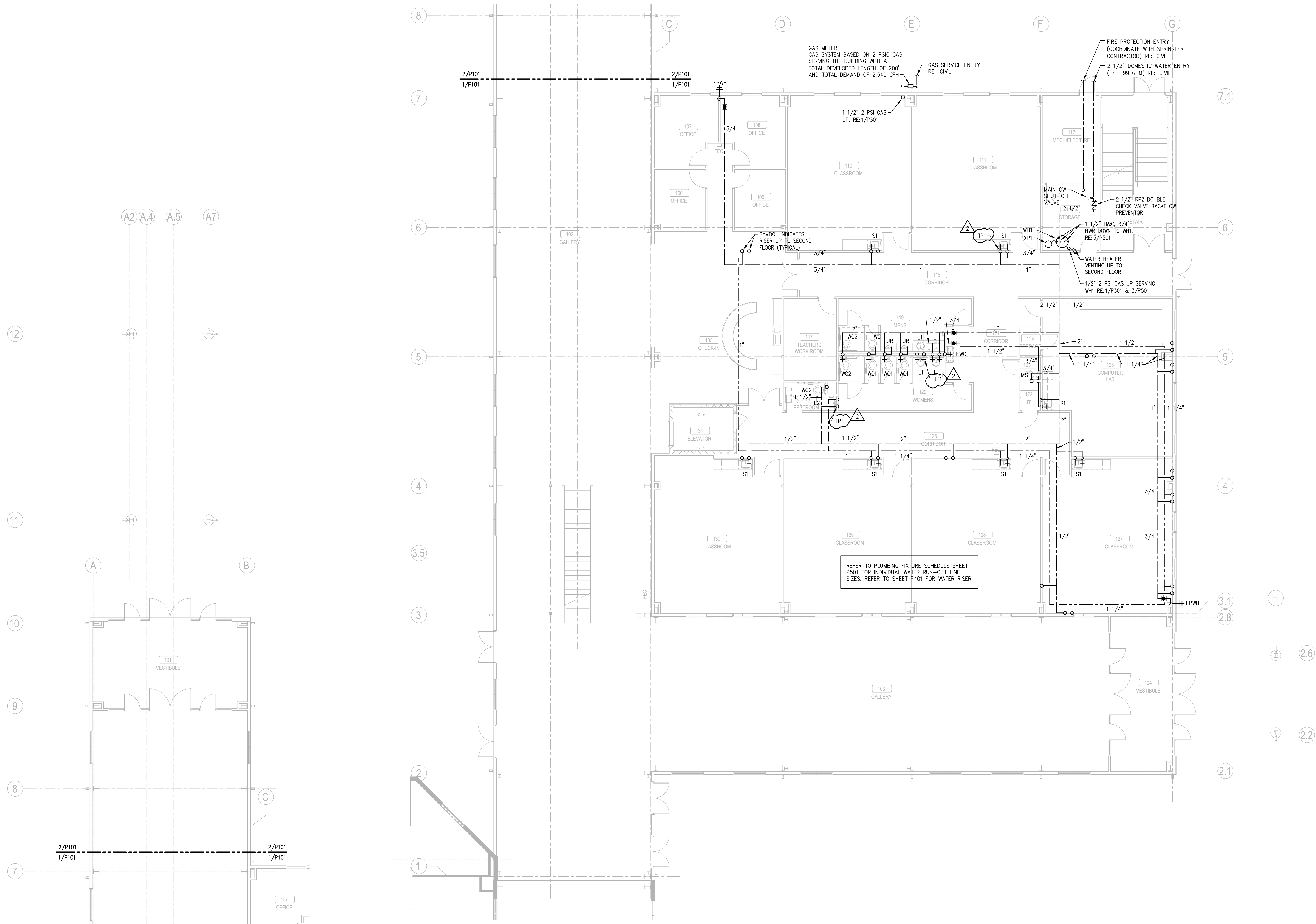
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NOTE:
REFER TO ARCHITECTURAL DRAWINGS FOR ALL RATED PARTITION LOCATIONS. ALL RATED PARTITION PENETRATIONS TO BE SEALED PER INTERNATIONAL BUILDING CODE AND AS TESTED AND APPROVED PER UL 263 AND UL 1479 REQUIREMENTS, AND AS DIRECTED BY AUTHORITY HAVING JURISDICTION.

CONSULTANT:

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2 1ST FLOOR CANOPY WATER PLAN
SCALE: 1/8" = 1'-0"

1 1ST FLOOR DOMESTIC WATER PLAN
SCALE: 1/8" = 1'-0"

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EVERGREEN BAPTIST
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PLUMBING 1ST FLOOR
DOMESTIC WATER PLAN

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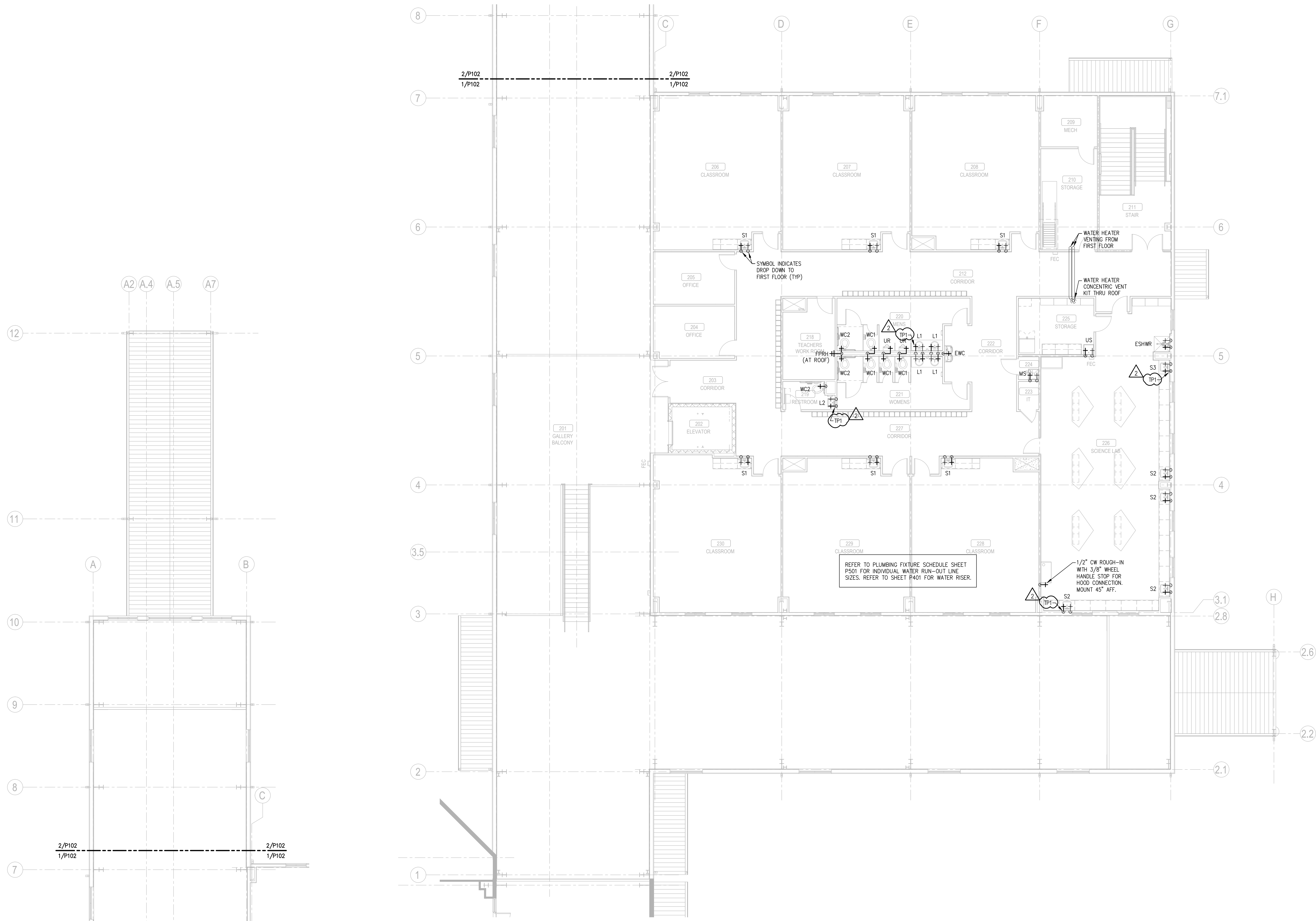
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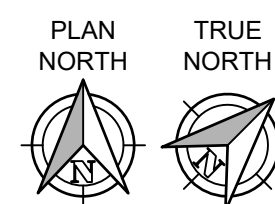
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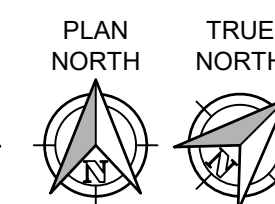
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2 2ND FLOOR CANOPY WATER PLAN
SCALE: 1/8" = 1'-0"



1 2ND FLOOR DOMESTIC WATER PLAN
SCALE: 1/8" = 1'-0"



100% CONSTRUCTION
DOCUMENTS
03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

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REVISIONS		
#	DATE	DESCRIPTION
1	03/14/2025	CITY COMMENTS
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PLUMBING 2ND FLOOR
DOMESTIC WATER PLAN

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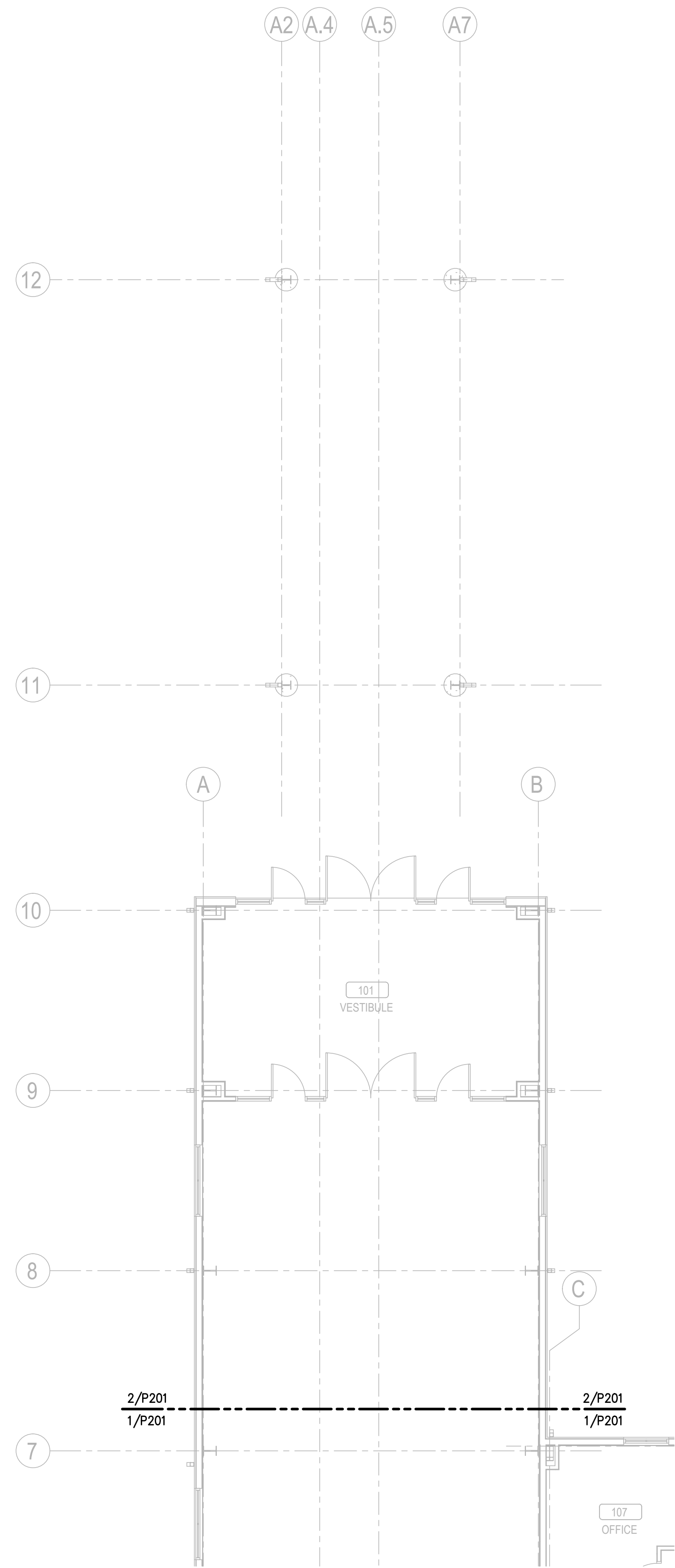
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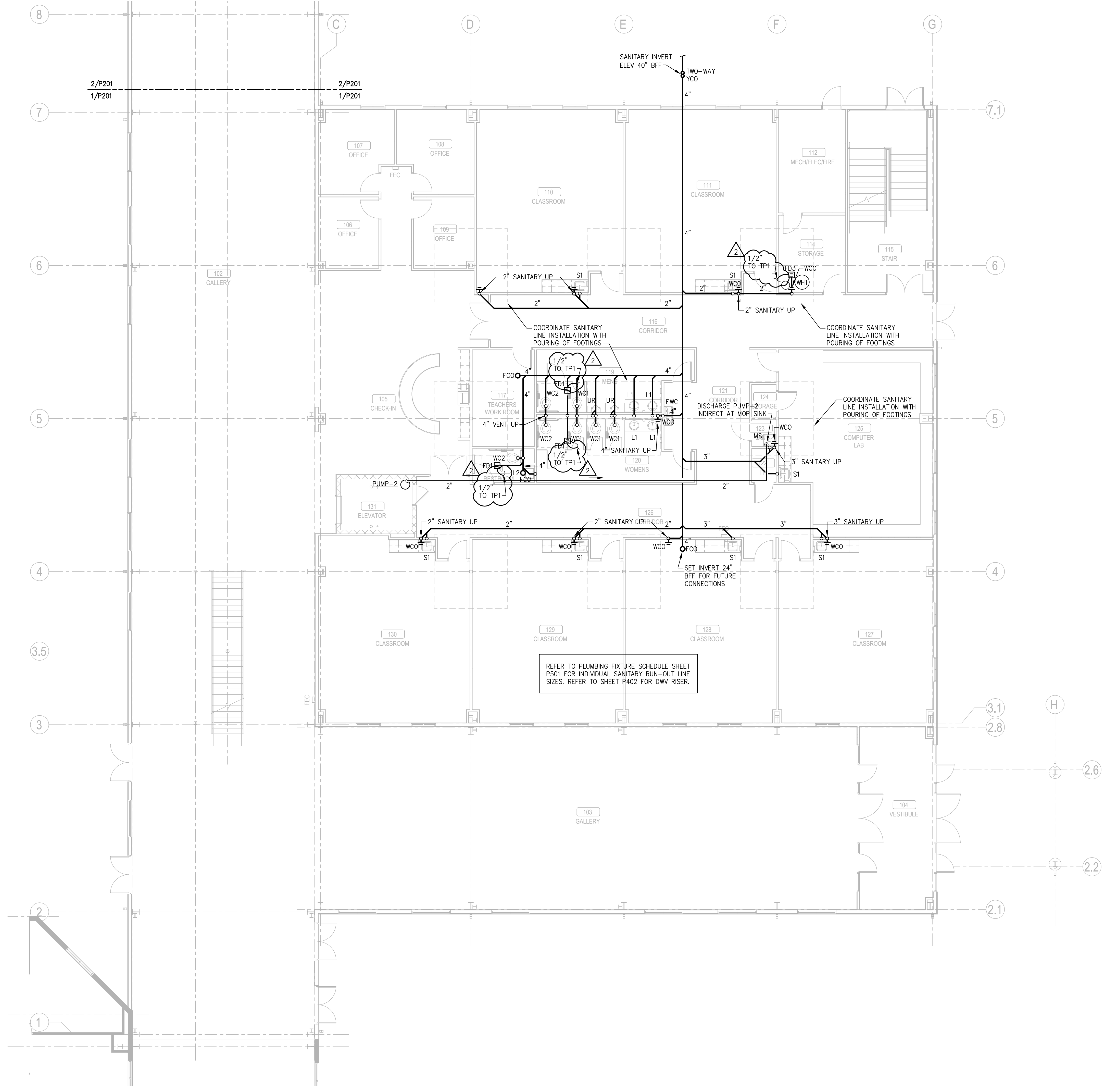
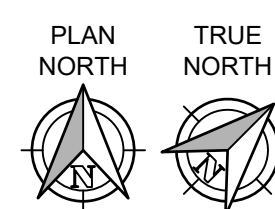
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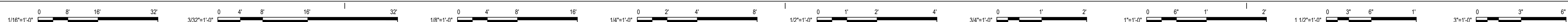
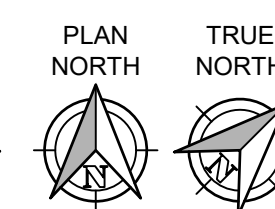
Reference Cover Sheet
for Consultant Directory



2 1ST FLOOR SANITARY DWV PLAN
SCALE: 1/8" = 1'-0"



1 1ST FLOOR SANITARY DWV PLAN
SCALE: 1/8" = 1'-0"



100% CONSTRUCTION
DOCUMENTS
03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS		
#	DATE	DESCRIPTION
1	03/14/2025	CITY COMMENTS
2	04/10/2025	REVISION #2

PLUMBING 1ST FLOOR
SANITARY DWV PLAN

AARON BROGDON, PE
OK LICENSE NO. 23990
V2 ENGINEERING, LLC
OK CA #7856

JOB 2023.14

ISSUE 03.03.2025

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CHKD BY:

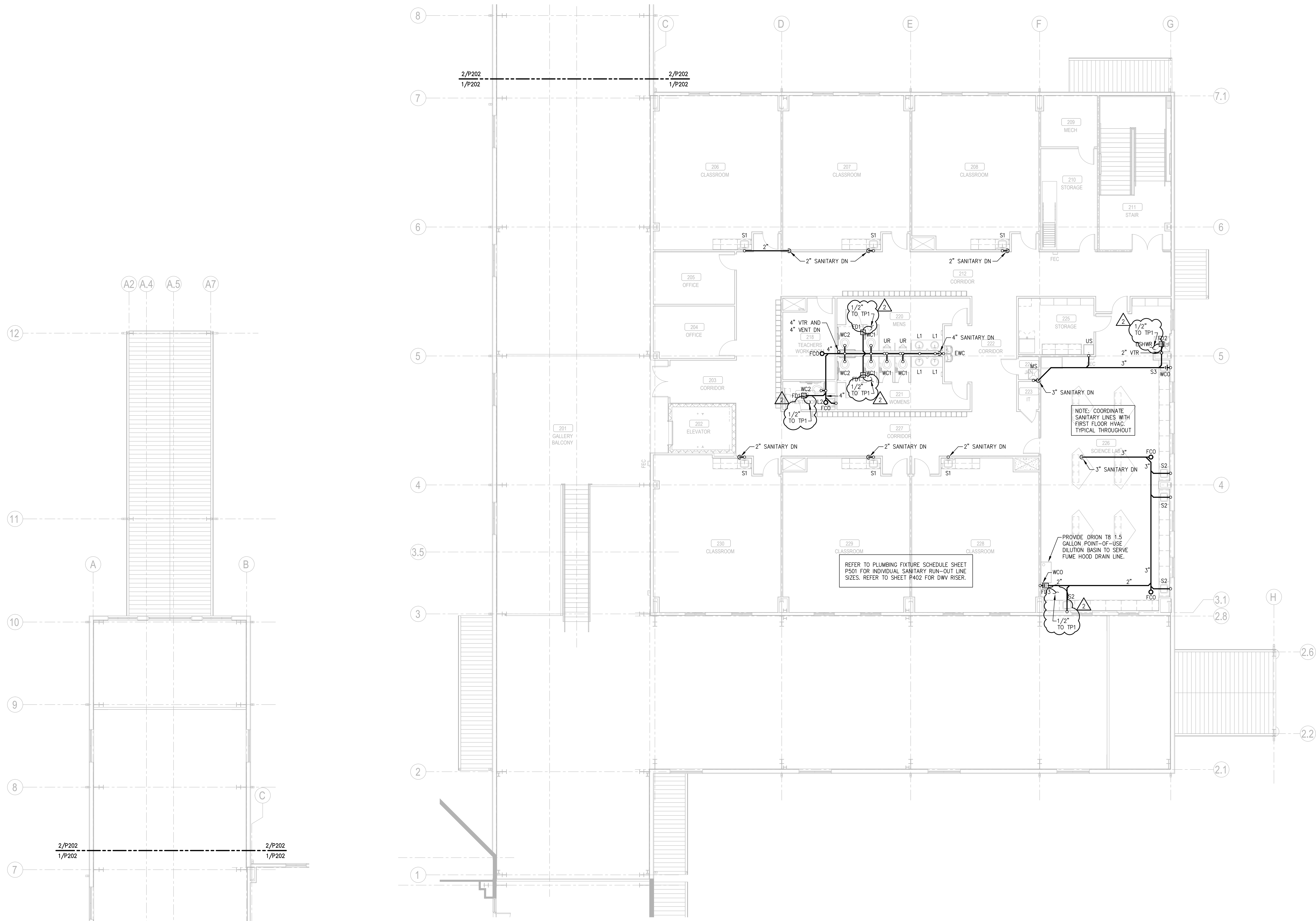
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SCALE

4-10-25

CONSULTANT:

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for Consultant Directory



2 2ND FLOOR SANITARY DWV PLAN
SCALE: 1/8" = 1'-0"

1 2ND FLOOR SANITARY DWV PLAN
SCALE: 1/8" = 1'-0"

100% CONSTRUCTION
DOCUMENTS
03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS		
#	DATE	DESCRIPTION
1	03/14/2025	CITY COMMENTS
2	04/10/2025	REVISION #2

PLUMBING 2ND FLOOR
SANITARY DWV PLAN

AARON BROGDON, PE
OK LICENSE NO. 23990
v2 ENGINEERING, LLC
OK CA #7856

JOB 2023.14
ISSUE 03.03.2025

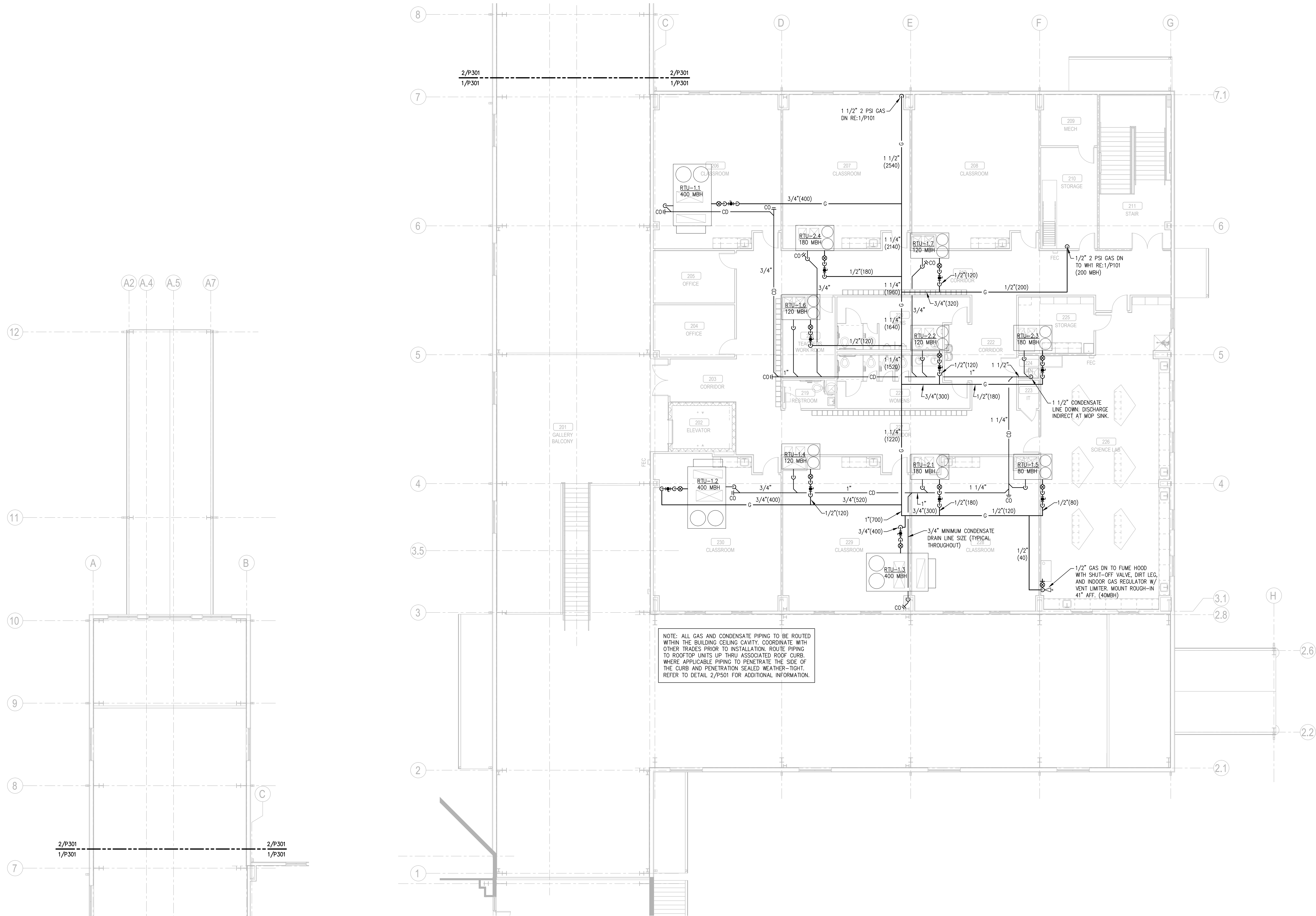
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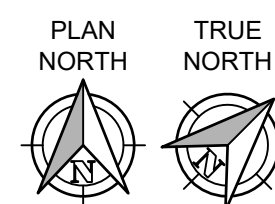
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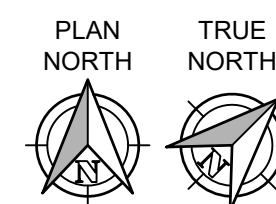
2 2ND FLOOR CANOPY GAS PLAN

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



1 2ND FLOOR GAS AND CONDENSATE PLAN

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



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03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

PLUMBING 2ND FLOOR
GAS AND CONDENSATE PLAN

AARON BROGDON, PE
OK LICENSE NO. 23990
V2 ENGINEERING, LLC
OK CA #7856

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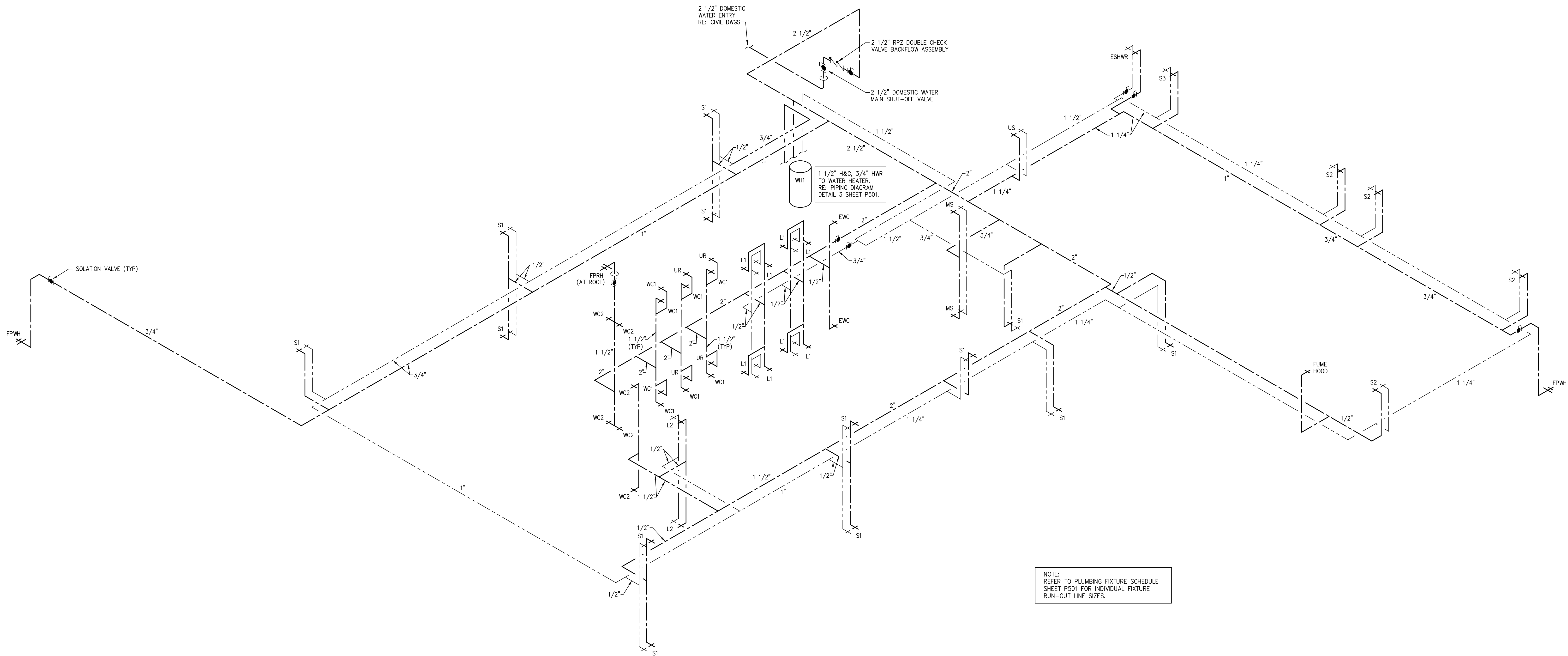
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1 DOMESTIC WATER RISER
SCALE: 1/8" = 1'-0"

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03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

PLUMBING
DOMESTIC WATER RISER

AARON BROGDON, PE
OK LICENSE NO. 23990
v2 ENGINEERING, LLC
OK CA #7856

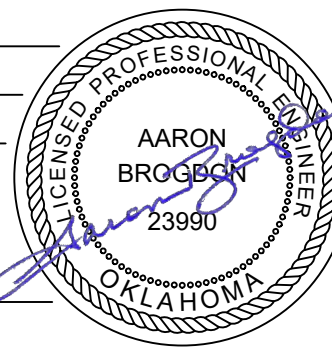
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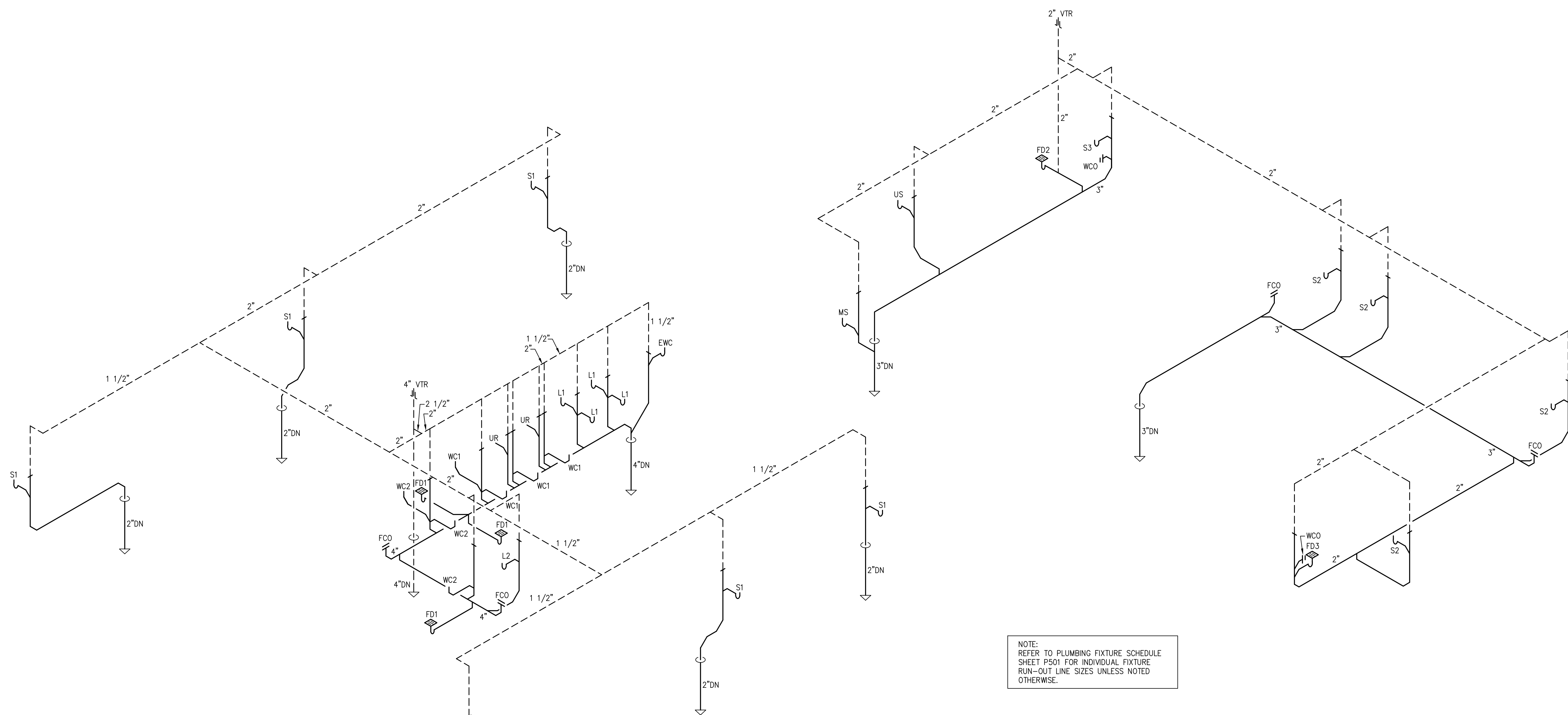
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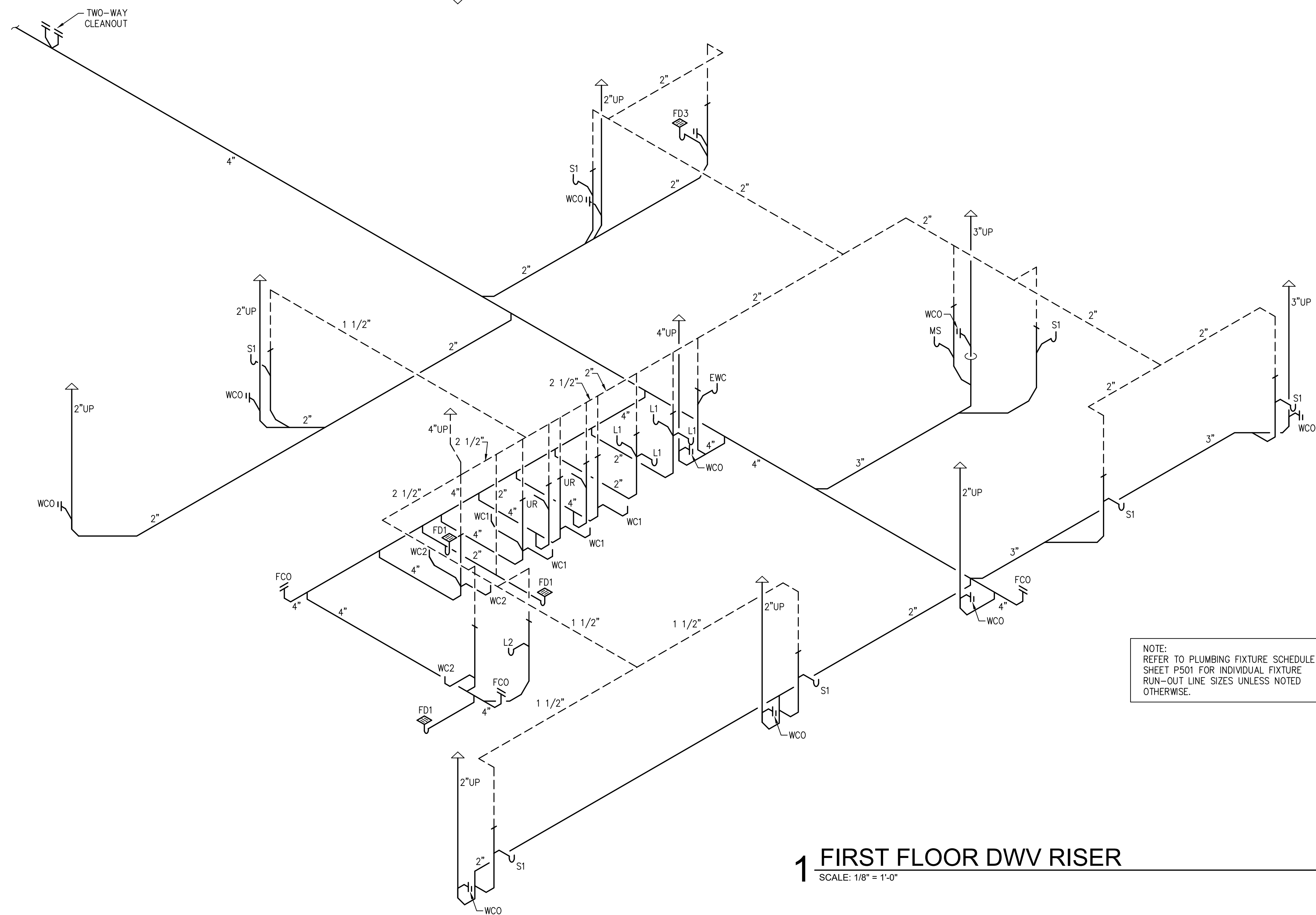
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2 SECOND FLOOR DWV RISER
SCALE: 1/8" = 1'-0"



1 FIRST FLOOR DWV RISER
SCALE: 1/8" = 1'-0"

100% CONSTRUCTION
DOCUMENTS
03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

PLUMBING
DRAIN WASTE & VENT RISERS

AARON BROGDON, PE
OK LICENSE NO. 23990
v2 ENGINEERING, LLC
OK CA #7856

JOB 2023.14

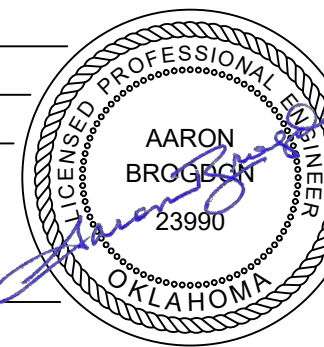
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PLUMBING GENERAL NOTES

1. ALL WORK AND INSTALLATIONS SHALL COMPLY WITH CURRENT CITY BUILDING CODE, AND OTHER GOVERNING CODES, STATE STATUTES, CITY ORDINANCES, AND REGULATIONS OF REGULATORY AGENCIES HAVING JURISDICTION, AND SHALL ALSO CONFORM TO THE REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER, THE STRUCTURAL ENGINEER, THE ARCHITECT, AND SHALL BE IN COMPLIANCE WITH ALL INDUSTRY STANDARDS. CODES AND ORDINANCES SHALL TAKE PRECEDENCE OVER SPECIFICATIONS AND DRAWINGS WHERE THERE IS A CONFLICT.
2. PAY ALL LAWFUL FEES FOR PERMITS OR LICENSES TO ACCOMPLISH THE WORK. OBTAIN AND PAY FOR ALL NECESSARY CERTIFICATES OF APPROVAL.
3. SLOPE SANITARY SEWER PIPING 2 1/2" AND SMALLER AT 1/4" PER FOOT. SLOPE SANITARY SEWER PIPING 3" AND LARGER AT 1/8" PER FOOT.
4. WORK SHOWN ON THE DRAWINGS IS TO BE COORDINATED WITH WORK OF ALL OTHER TRADES AND ACTUAL BUILDING CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY CONDITIONS AND PROVIDE THE REQUIRED MATERIALS AND LABOR, TO MEET THE INTENT OF THE CONSTRUCTION DOCUMENTS PRIOR TO BID.
5. LAY OUT PIPES TO FALL WITHIN PARTITIONS OR CHASES. DO NOT REQUIRE FURRING OTHER THAN THOSE SHOWN ON THE DRAWINGS. DO NOT ROUTE PIPING THRU STRUCTURAL MEMBERS.
6. INSTALL ALL PIPING PARALLEL AND PERPENDICULAR TO BUILDING WALLS AND PARTITIONS UNLESS DISTINCTLY SHOWN OR NOTED OTHERWISE. ROUTE PIPING LOCATED NEAR EACH OTHER PARALLEL IN ALL PLACES, WITH SUFFICIENT CLEARANCE. PROVIDE ESCUTCHEON PLATES FOR ALL PLUMBING PENETRATIONS THRU FINISHED AREA CEILINGS AND WALLS. PROVIDE AIR-TIGHT SEAL AROUND PIPE PENETRATIONS THRU WALLS AND CEILINGS ALONG WITH ESCUTCHEON PLATES.
7. PIPING ON EXTERIOR WALLS SHALL BE INSTALLED ON THE ROOM SIDE OF EXTERIOR WALL INSULATION.
8. CAP ALL PIPE OPENINGS DURING CONSTRUCTION.
9. COORDINATE LOCATION AND METHOD OF ATTACHMENT OF HANGERS AND SUPPORTS FOR PIPING SYSTEM TO BUILDING STRUCTURE WITH THE ARCHITECT AND STRUCTURAL ENGINEER. ESTABLISH LOCATIONS OF SYSTEM PIPE ANCHORS AND OBTAIN APPROVAL FROM THE ARCHITECT AND STRUCTURAL ENGINEER.
10. SLEEVE PIPING THROUGH EXTERIOR WALLS, FIRE AND SMOKE RATED WALLS/ASSEMBLIES, AND AT GRADE SLAB FLOORS. ANNULAR SPACE BETWEEN PIPE AND SLEEVE SHALL BE CAULKED AND SEALED. FIRE RATED PENETRATIONS SHALL BE FIRE STOPPED TO MEET RATING OF CONSTRUCTION PENETRATED.
11. INSULATE ALL DOMESTIC HOT, HOT WATER RETURN, CONDENSATE, AND COLD WATER PIPING.
12. PIPING INSTALLED IN STUD WALLS SHALL BE PROTECTED WITH MINIMUM 1/16 INCH SHIELD PLATES EXTENDING BEYOND THE PIPE IN ALL DIRECTIONS.
13. INSTALL SHUT-OFF VALVES IN HOT WATER AND COLD WATER LINES AHEAD OF CONNECTIONS TO ALL PLUMBING FIXTURES & EQUIPMENT.
14. FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, AND FLOOR CLEANOUTS SHALL BE FURNISHED AND INSTALLED WITH TOP AND TRIM COMPATIBLE WITH FLOOR COVERING MATERIAL AND TOP SET FLUSH WITH FINISHED FLOOR UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISHES.
15. ALL FLOOR DRAINS SHALL HAVE 3 INCHES MINIMUM WATER SEAL.
16. ALL FLOOR CLEANOUTS SHALL BE LOCATED A MINIMUM OF 18 INCHES CLEAR FROM WALLS AND OBSTRUCTIONS TO SERVICE.
17. PROVIDE ACCESS DOORS FOR ALL INACCESSIBLE VALVES AND CLEANOUTS.
18. COORDINATE LOCATION AND TERMINATION OF VENT PIPING WITH OTHER TRADES AND ARCHITECTURAL FEATURES AND CONDITIONS. MAINTAIN REQUIRED CLEARANCES TO OUTSIDE AIR INTAKES, WINDOWS, ETC. AS REQUIRED BY LOCAL CODE AND AUTHORITY HAVING JURISDICTION.
19. RUN ALL DRAIN LINES FROM EQUIPMENT OVERFLOW RECEIVERS, EVAPORATORS, ETC. TO FLOOR/HUB DRAINS. DRAIN LINES SHALL BE INSTALLED WITH MINIMUM 1/8 INCH PER FOOT SLOPE SECURED BY HANGERS AND SUPPORTS FOR PIPE SIZE SHOWN. DRAIN LINES SHALL NOT BE SMALLER THAN 3/4 INCH. INSTALL TEE AT EACH ELBOW OF CONDENSATE DRAIN WITH CLEANOUT PLUG ON BLIND TEE.
20. PLUMBING CONTRACTOR SHALL VERIFY VOLTAGE, PHASE, AND WIRE SIZE OF PLUMBING EQUIPMENT REQUIRING ELECTRICAL CONNECTION WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE OF EQUIPMENT.
21. PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS WHERE REQUIRED BY LOCAL AUTHORITY. PROVIDE PERMANENT ACCESS WITH SHUT-OFF VALVE UPSTREAM OF PRIMING DEVICE.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO PLUMBING FIXTURES. THIS INCLUDES, BUT IS NOT LIMITED, TO PROVIDING (FURNISHING AND INSTALLING) ALL TRAPS, DRAINS, AND SUPPLIES WITH STOPS.
23. PLUMBING CONTRACTOR SHALL PURGE, CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING SYSTEM PER PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION OR IF METHODS ARE NOT PRESCRIBED, PER AWWA C601 OR AWWA C652.
24. PLUMBING CONTRACTOR IS RESPONSIBLE FOR A FULLY FUNCTIONAL CODE COMPLIANT SYSTEM REGARDLESS OF DRAWING INTERPRETATION. PROVIDE ANY ITEMS OF CONCERN IN WRITING PRIOR TO BID.
25. PROVIDE PRESSURE REDUCING STATION WHERE SITE WATER PRESSURE EXCEEDS 80 PSI AT THE BASE OF THE WATER ENTRY RISER.
26. LICENSED PLUMBING CONTRACTORS ONLY SHALL INSTALL ALL SEWER AND WATER PLUMBING SYSTEMS.
27. DOMESTIC WATER PIPE AND FITTINGS SHALL BE TYPE "L" HARD DRAWN COPPER TUBING WITH SOLDERED JOINTS AND WROUGHT COPPER SOCKET FITTING FOR ALL WATER PIPING ABOVE GROUND. PROVIDE TYPE "K" HARD DRAWN COPPER TUBING WITH BRAZED JOINTS AND WROUGHT COPPER SOCKET FITTING FOR ALL BELOW GROUND COPPER WATER PIPING. SOLDER JOINTS FOR TYPE "L" COPPER TUBING USING 95-5 ANTIMONY SOLDER WITH A COMPATIBLE FLUX. BRAZED JOINTS SHALL USE A ROUP BRAZING ALLOY WITH A COMPATIBLE FLUX. SOLDER FOR POTABLE WATER PIPING SHALL BE LEAD FREE. DIELECTRIC ADAPTERS SHALL BE PROVIDED BETWEEN COPPER AND IRON PIPE CONNECTIONS AND BETWEEN FERROUS AND NON-FERROUS PIPING OR EQUIPMENT.
28. SANITARY, WASTE AND VENT PIPE AND FITTINGS SHALL BE SERVICE WEIGHT COATED CAST IRON SOIL PIPE AND FITTINGS. ASTM A74 WITH HUBS AND FLANGES. ABOVE GROUND USE HUBLESS PIPE WITH STAINLESS STEEL CLAMPS AND NEOPRENE GASKETS. (IF ALLOWED BY CODE), SCHEDULE 40 SOLID WALL PVC WITH DRAINAGE PATTERN FITTINGS AND SOLVENT-CEMENTED JOINTS.
29. CONDENSATE DRAINAGE PIPE AND FITTINGS SHALL BE TYPE "L" HARD DRAWN COPPER TUBING WITH SOLDERED JOINTS AND WROUGHT COPPER SOCKET FITTING FOR ALL PIPING ABOVE GROUND. INSTALL CONDENSATE DRAINAGE PIPING FITTED TO DRAIN AT MINIMUM SLOPE OF 1/8" PER FOOT. SOLDER JOINTS FOR TYPE "L" COPPER TUBING SHALL BE MADE USING 95-5 ANTIMONY SOLDER WITH A COMPATIBLE FLUX.
30. DOMESTIC HOT AND COLD WATER PIPING SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATION WITH FOIL-KRAFT LAMINATE VAPOR BARRIER WITH PRESSURE SENSITIVE TAPE AND LAPPED 12" MINIMUM. INSULATION SHALL HAVE AN AVERAGE THERMAL CONDUCTIVITY NO TO EXCEED .025 BTU/INCH OF THICKNESS PER SQUARE FOOT PER 1 F. AT A MEAN TEMPERATURE OF 75 F. CONDENSATE DRAINAGE LINES IN ATTIC OR INSIDE THE BUILDING SHALL BE INSULATED SIMILAR TO DOMESTIC HOT AND COLD WATER LINES.

GAS PIPING NOTES

1. WORK SHOWN ON THE DRAWINGS IS TO BE COORDINATED WITH WORK OF ALL OTHER TRADES AND ACTUAL CONDITIONS OF CONSTRUCTION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE CONSTRUCTION CONDITIONS AND PROVIDE THE REQUIRED MATERIALS AND LABOR, TO MEET THE INTENT OF THE CONSTRUCTION DOCUMENTS PRIOR TO BID.
2. FURNISH AND INSTALL INDIVIDUAL GAS SHUT-OFF VALVE AND UNION AT EACH GAS FIRE APPLANCE AND BUILDING PENETRATION THRU ROOF OR EXTERIOR WALLS.
3. GAS SHUT OFF VALVE SHALL BE FULL SIZE OF REQUIRED EQUIPMENT BRANCH RUNOUT PIPE SIZE BASED ON GAS PRESSURE AND FURTHEMOST PIPE DISTANCE FROM GAS METER OR POINT OF PRESSURE REDUCTION. RUNOUT PIPE SHALL NOT BE REDUCED TO EQUIPMENT CONNECTION PIPE SIZE UNTIL IMMEDIATELY AHEAD OF CONNECTION TO EQUIPMENT. VALVES SHALL NOT BE LOCATED ABOVE CEILINGS.
4. BRANCH GAS PIPING SHALL BE CONNECTED TO THE TOP OR SIDE OF HORIZONTAL PIPING.
5. GAS PIPING SHALL NOT BE INSTALLED IN CONCEALED LOCATIONS. WHERE VERTICAL CHASES ENCLOSE PIPE RISERS, CHASES SHALL BE FIRE RATED AND VENTILATED AT THE TOP WITH FREE AREA VENTS EQUAL TO OR GREATER THAN ONE-HALF THE SERVICE PRESSURE IN INCHES WATER COLUMN TIMES THE NOMINAL DIAMETER OF THE PIPE. GAS PIPING JOINTS WITHIN CONCEALED SPACES SHALL BE WELDED.
6. GAS PIPING SHALL NOT BE INSTALLED BELOW BUILDING SLAB UNLESS SPECIFICALLY NOTED AS SUCH. GAS LINE TO BE SLEEVED AND OPEN TO ATMOSPHERE AT BOTH ENDS IN DOING SO.
7. USE ECCENTRIC REDUCERS TO MAKE REDUCTIONS IN PIPE SIZES IN HORIZONTAL PIPING. INSTALL FITTINGS WITH LEVEL SIDE ON BOTTOM OF PIPING.
8. INSTALL PIPING SO AS TO ALLOW FOR SERVICE AND MAINTENANCE OF EQUIPMENT AND APPLIANCES.
9. OPEN ENDS OF GAS PIPING SHALL BE CAPPED DURING CONSTRUCTION TO PREVENT INTRODUCTION OF FOREIGN MATERIALS. VALVE AND PIPING OUTLETS SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND LEFT CLOSED UNTIL FINAL CONNECTION TO EQUIPMENT OR APPLIANCES.
10. ANCHOR PIPING TO CONTROL PIPE MOVEMENT. LOCATION OF ANCHOR POINTS SHALL BE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER.
11. PROVIDE EXPANSION LOOP IN GAS PIPING WHERE BUILDING EXPANSION JOINTS ARE CROSSED.
12. DIVISION 22 CONTRACTOR SHALL WIRE BRUSH AND PAINT ALL GAS PIPE AND ACCESSORIES EXPOSED TO WEATHER. PAINT COLOR TO BE PER ARCHITECT'S DIRECTION, UNLESS SPECIFICALLY NOTED BY LOCAL CODE.
13. GAS PIPING SHALL ENTER THE BUILDING A MINIMUM OF 12 INCHES ABOVE FINISHED GRADE.
14. LOCATE PIPING SUPPORTS AWAY FROM PIPE JOINTS TO ALLOW FREE MOVEMENT OF PIPING WITHOUT INTERFERENCE OF PIPE SUPPORTS.
15. THE CONTRACTOR IS TO VERIFY THE FINAL APPROVED LOCATION OF THE GAS SERVICE METER AND/OR PRESSURE REDUCING STATION AND ADJUST THE GAS PIPE SIZES INDICATED FOR THE TOTAL SYSTEM LENGTH IF DIFFERENT FROM THE DISTANCE LISTED OR SHOWN ON THE DRAWINGS. DRAWINGS INDICATING THE SYSTEM REVISIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
16. COORDINATE INSTALLATION OF GAS SERVICE METER AND PRESSURE REGULATING STATIONS WITH THE GAS UTILITY COMPANY. PROVIDE ALL VALVES AND PIPING ARRANGEMENT FOR INSTALLATION OF THE SERVICE GAS METER AND PRESSURE REGULATING EQUIPMENT AS DIRECTED BY THE GAS UTILITY COMPANY. COORDINATE WITH CIVIL PLANS.
17. PLASTIC GAS SERVICE PIPE SHALL BE INSTALLED WITH AN INSULATED COPPER TRACE WIRE NO LESS THAN 1/8 GAUGE LOCATED ADJACENT TO THE TOP OF THE PIPING. THE COPPER TRACE WIRE SHALL EXTEND TO GRADE AND TERMINATE AT EACH END OF THE PLASTIC SERVICE PIPING. A CONTINUOUS PLASTIC BANNER LABELED "CAUTION - GAS PIPING" SHALL BE INSTALLED 12 INCHES ABOVE ALL BURIED GAS PIPING.
18. TRANSITION RISER FROM PLASTIC SERVICE PIPING TO BLACK STEEL BUILDING PIPING IS TO BE MADE BELOW GRADE. BLACK STEEL PIPING EXTENDING BELOW GRADE SHALL BE FURNISHED WITH FACTORY APPLIED CORROSION RESISTANT POLYETHYLENE COATING. PROVIDE ANODE FOR CATHODIC PROTECTION.
19. WHERE GAS SERVICE UNDERGROUND PIPING RISES THROUGH PAVING OR CONCRETE SURFACES, PROVIDE PIPE SLEEVE TWO PIPE SIZES LARGER THAN INSTALLED PIPING. EXTEND SLEEVE A MINIMUM OF 1 INCH ABOVE FINISHED SURFACE AND DEEPER THAN DEPTH OF PAVING OR CONCRETE. FILL SLEEVE VOID WITH SMALL, ROUNDED, WASHED GRAVEL.
20. EACH ABOVE GROUND PORTION OF METAL PIPING GAS SYSTEM UPSTREAM OF EQUIPMENT SHUT-OFF VALVES SHALL BE ELECTRICALLY CONTINUOUS AND BONDED TO GROUNDING ELECTRODE PER NFPA 70 AND NFPA 54.

FIRE PROTECTION NOTES

1. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A COMPLETE FIRE PROTECTION SYSTEM OF TYPE, PRESSURE, FLOW AND DENSITIES REQUIRED BY AND IN ACCORDANCE WITH NFPA, ALL JURISDICTIONAL AGENCIES CODES, AND THE OWNER'S INSURANCE CARRIER. THE TOTAL SYSTEM SHALL BE ACCEPTED WITHOUT PREMIUM PENALTIES DUE TO SYSTEM DESIGN, BY INSURANCE CARRIER OR LOCAL AUTHORITY.
2. THIS CONTRACTOR SHALL FIELD VERIFY ALL NEW EQUIPMENT, DUCTWORK AND PIPING, ETC. PRIOR TO STARTING CONSTRUCTION. COORDINATE INSTALLATION AND CONFLICTS WITH THE GENERAL CONTRACTOR.
3. RECORD SHOP DRAWINGS, ALONG WITH ALL ASSOCIATED PRODUCT DATA FOR COMPONENTS TO BE UTILIZED IN THE INSTALLATION OF THIS SYSTEM, BEARING THE LOCAL BUILDING AND FIRE DEPARTMENT STAMPS OF APPROVAL, SHALL BE SENT TO ARCHITECT/OWNER PRIOR TO COMMENCING WORK. PLANS SHALL RELATE THE FIRE PROTECTION SYSTEM WITH STRUCTURE AND ALL PERTINENT TRADES. NECESSARY CLARIFYING DETAILS AND SECTIONS SHALL BE INCLUDED. ALL DRAWINGS CONTAINED IN THIS SUBMITTAL SHALL BEAR THE STAMP AND SIGNATURE OF A REGISTERED NICET LEVEL III SPRINKLER DESIGNER EMPLOYED BY THIS CONTRACTOR.
4. OBTAIN FROM OWNER AND OWNER'S INSURANCE CARRIER ALL INFORMATION AND REQUIREMENTS NEEDED FOR SYSTEM DESIGN.
5. PIPING AND FITTINGS (INTERIOR) SHALL BE AS FOLLOWS:
6. INTERIOR - (ABOVE GRADE OR ABOVE LOWEST FLOOR SLAB) SCHEDULE 40 STEEL PIPE FOR PIPE SIZES 2" AND SMALLER. SCHEDULE 10 BLACK STEEL PIPE FOR PIPE SIZES 2 1/2" AND LARGER. FITTINGS AND COUPLINGS MUST BE A LISTED COMBINATION OF COUPLING, FITTING AND GROOVED AS PER N.F.P.A. 13, AND THE UL AND FM LISTING GUIDES. ALL FITTINGS AND COUPLINGS ARE TO BE FROM A SINGLE MANUFACTURER. NO SEGMENTAL WELDED FITTINGS WILL BE ALLOWED.
7. FIRE PROTECTION CONTRACTOR SHALL PROVIDE ALL ITEMS, ARTICLES, MATERIALS, OPERATIONS, OR METHODS MENTIONED OR SHOWN ON DRAWINGS, AND/OR HEREIN INCLUDING ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS NECESSARY AND REQUIRED TO PROVIDE A COMPLETE AUTOMATIC FIRE SPRINKLER SYSTEM FOR THE SPACE.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	MANUFACTURER/ CATALOG NO.	TRIM	RUN-OUT SIZES				NOTES
				WASTE	VENT	CW	HW	
WC1	WATER CLOSET (FLOOR MOUNT, FLUSH VALVE)	KOHLER WELLCOMME K-96053	FLOOR MOUNTED ELONGATED BOWL (1.28 GALLON PER FLUSH). FIXTURE COLOR: WHITE. SLOAN ROYAL 111-1.28 FLUSH VALVE. SEAT: CHURCH 9500SSCT	4"	2"	1 1/4"	----	
WC2	WATER CLOSET ADA (FLOOR MOUNT, FLUSH VALVE)	KOHLER HIGHCLIFF K-96057	FLOOR MOUNTED ELONGATED BOWL (1.28 GALLON PER FLUSH). FIXTURE COLOR: WHITE. SLOAN ROYAL 111-1.28 FLUSH VALVE. VALVE HANDLE TO BE ORIENTED TO OPEN SIDE OF STALL. SEAT: CHURCH 9500SSCT	4"	2"	1 1/4"	----	
UR	URINAL ADA (WALL HUNG)	KOHLER BARDON K-4981-ETSS	WALL HUNG WASH OUT WITH 3/4" TOP SPUD. (0.5 GALLON PER FLUSH). FIXTURE COLOR: WHITE. SLOAN ROYAL 186-0.5 FLUSH VALVE. ZURN Z1222 CARRIER. MOUNT UP AT 17" ABOVE FLOOR FOR ADA LOCATIONS.	2"	1 1/2"	1"	----	1
L1	LAVATORY ADA (COUNTERTOP)	KOHLER PENNINGTON K-2196-4	DROP-IN OVAL VITREOUS CHINA SINK WITH 2-HOLE DRILLING ON 4" CENTERS. FIXTURE COLOR: WHITE. FAUCET: T&S BRASS B-2711 (0.5 GPM) SINGLE LEVER FAUCET WITH GRID DRAIN.	2"	1 1/4"	1/2"	1/2"	2,3,4,5,6
L2	LAVATORY ADA (WALL HUNG)	KOHLER KINGSTON K-2005	WALL HUNG VITREOUS CHINA SINK WITH 2-HOLE DRILLING ON 4" CENTERS. FIXTURE COLOR: WHITE. FAUCET: T&S BRASS B-2711 (0.5 GPM) SINGLE LEVER FAUCET WITH GRID DRAIN. ZURN Z1231 CARRIER.	2"	1 1/4"	1/2"	1/2"	1,2,3,4,5,6
S1	CLASSROOM SINK (COUNTERTOP)	ELKAY LR2219	DROP-IN STAINLESS STEEL SINK WITH 3-HOLE DRILLING ON 4" CENTERS. FAUCET: ELKAY LK800GN05T6 (1.5 GPM) DUAL HANDLE W/ 4" WRIST BLADES AND GRID DRAIN.	2"	1 1/2"	1/2"	1/2"	2,4,6
S2	LAB ROOM SINK (COUNTERTOP)	DURCON D30	DROP-IN EPOXY RESIN 18x15x10.75 SINK WITH S03-R POLYPROPYLENE OUTLET AND TAILPIECE CONNECTION TO DILUTION TANK. FAUCET: WATERSAVER L414VB-BH (1.5 GPM) DUAL HANDLE W/ 4" WRIST BLADES.	2"	1 1/2"	1/2"	1/2"	2,6,12
S3	LAB ROOM SINK ADA (COUNTERTOP)	DURCON A25	DROP-IN EPOXY RESIN 18x15x5 SINK WITH S03-R POLYPROPYLENE OUTLET AND OFFSET TAILPIECE CONNECTION TO DILUTION TANK. FAUCET: WATERSAVER L414VB-BH (1.5 GPM) DUAL HANDLE W/ 4" WRIST BLADES.	2"	1 1/2"	1/2"	1/2"	2,5,6,12
EWG	ELECTRIC WATER COOLER ADA	ELKAY LVRCGRNTLBSWK	TWO STATION WALL MOUNTED HI-LOW BARRIER-FREE, FRONT PUSH BUTTON, SELF-CONTAINED ELECTRIC WATER COOLER WITH BOTTLE WATER FILLER. FINISH: SATIN STAINLESS STEEL. 115V/1. PROVIDE W/ NSF42/NSF53 WATER FILTER AND ZURN Z1225 WALL CARRIER.	2"	1 1/2"	1/2"	----	1,2,4
ESHRW	EMERGENCY SHOWER	HAWS 8300.158	COMBINATION 200GPM EMERGENCY SHOWER AND 1.02GPM EYE WASH. FURNISH AND INSTALL HAWS MODEL 920TH AXION THERMOSTATIC MIXING VALVE WITH MINIMUM 1 GPM TO MAXIMUM 31 GPM FLOW. SET DELIVERY TEMPERATURE TO 98 DEGREES F. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.	2"	1 1/2"	1 1/4"	1 1/4"	
MS	MOP SINK	FIAT MSB-2424	MOLDED STONE FIXTURE WITH GRID DRAIN, STAINLESS STEEL CAPS AND WALL SPLASH GUARDS. 830-MA FAUCET W/ VACUUM BREAKER. 832-MA HOSE AND BRACKET, 889CC MOP HANGER. FIXTURE COLOR: WHITE.	3"	1 1/2"	3/4"	3/4"	
US	UTILITY SINK	MUSTEE 190C UTILATUB	ONE-PIECE THERMOPLASTIC FIXTURE WITH 6" SWING SPOUT FAUCET. PVC DRAIN, P-TRAP, AND STOPPER. FIXTURE COLOR: WHITE.	2"	1 1/2"	1/2"	1/2"	2,4,12
FD1	FLOOR DRAIN	ZURN ZN-415-S	FLOOR DRAIN WITH NICKLE BRONZE TYPE "S" STRAINER, WITH TRAP PRIMER CONNECTION.	2"	1 1/2"	----	----	9
FD2	FLOOR DRAIN	ZURN ZN-415-S	FLOOR DRAIN WITH NICKLE BRONZE TYPE "S" STRAINER, WITH TRAP PRIMER CONNECTION.	3"	1 1/2"	----	----	9
FD3	FLOOR DRAIN	ZURN FD-2340-P-Y	MEDIUM DUTY FLOOR DRAIN WITH TRACTOR GRATE, SEDIMENT BUCKET, AND TRAP PRIMER CONNECTION.	2"	1 1/2"	----	----	9
WCO	WALL CLEANOUT	ZURN Z1441	ADJUSTABLE	----	----	----	----	
FCO	FLOOR CLEANOUT	ZURN ZN1400	ADJUSTABLE	----	----	----	----	
YCO	GRADE CLEANOUT	ZURN ZN1400-HD	ADJUSTABLE	----	----	----	----	
FPWH	FREEZE PROOF WALL HYDRANT	WOODFORD MODEL B65	AUTOMATIC DRAINING, ANTI-SIPHON W/ VACUUM BREAKER	----	----	3/4"	----	
FPRH	FREEZE PROOF ROOF HYDRANT	WOODFORD MODEL SRH-MS	AUTOMATIC DRAINING, ANTI-SIPHON W/ VACUUM BREAKER	----	----	3/4"	----	
TP1	TRAP PRIMER	ZURN Z-1022	AUTOMATIC TRAP PRIMER	----	----	1/2"	----	
EXP1	EXPANSION TANK	THERM-X-TROL ST-25V		----	----	1/2"	----	

- NOTES:
1. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS. MOUNT PER ADA REQUIREMENTS WHERE INDICATED.
 2. PROVIDE CHROME-PLATED WHEEL HANDLE ANGLE SUPPLIES, FLEXIBLE RISER HOSE(S), AND CHROME PLATED WALL ESCUTCHEON(S).
 3. PROVIDE LAVATORY FAUCET WITH 0.5 GPM MAXIMUM FLOW CONTROL SPRAY OUTLET.
 4. PROVIDE P-TRAP WITH CLEANOUT AND WALL ESCUTCHEON.
 5. PROVIDE OFF-SET TAILPIECE AND TRUESDAY LAY GUARD UNDER SINK PROTECTIVE PIPE COVERS ON SUPPLY AND WASTE PIPING.
 6. PROVIDE WATTS LFUSG-B THERMOSTATIC MIXING VALVE SET TO 105° F. (NOTE: TWO S2 LAB SINK LOCATIONS WITH EYE WASH STATIONS TO BE SET AT MAXIMUM 100° F.)
 7. PROVIDE CAULKED/THREADED CLEANOUT. EXTEND ACCESS COVER TO FINISHED WALL SURFACE. ENSURE AMPLE CLEARANCE AT CLEANOUT FOR RODDING OF DRAINAGE SYSTEM
 8. WATER HAMMER ARRESTORS SHALL BE PROPERLY SIZED, PROPERLY LOCATED IN AN EFFECTIVE RANGE FROM EQUIPMENT, AND IN ACCORDANCE WITH PDI STANDARD WH 201.
 9. PROVIDE TRAP PRIMER VALVE AND ASSOCIATED PIPING WHERE REQUIRED BY AUTHORITY HAVING JURISDICTION.
 10. PROVIDE ROUND ACCESS COVER WITH NICKEL-BRONZE SCORED FRAMES & PLATES. SIZE AS INDICATED ON DRAWINGS. ENSURE AMPLE CLEARANCE AROUND CLEANOUT FOR RODDING OF DRAINAGE SYSTEM.
 11. ADJUSTABLE GRADE CLEANOUT, DURA-COATED CAST IRON BODY WITH GAS AND WATERTIGHT ABS TAPERED THREAD PLUG AND ROUND SCORATED SECURED HEAVY DUTY TOP, ADJUSTABLE TO FINISHED GRADE.
 12. PROVIDE ORION T8 1.5 GALLON POINT-OF-USE DILUTION BASIN WITH TOP INLET DIP TUBE, TOP VENT CONNECTION, AND SIDE OUTLET.

WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	GALLONS STOR. CAP.	MBH INPUT	THERMAL EFFICIENCY	G.P.H. RECOVERY AT 90 °F. RISE	DELIVERY TEMP °F	NOTES
WH1	A.O. SMITH	BTH-199	100	199	95%	261	120	1,2,3,4

NOTES:

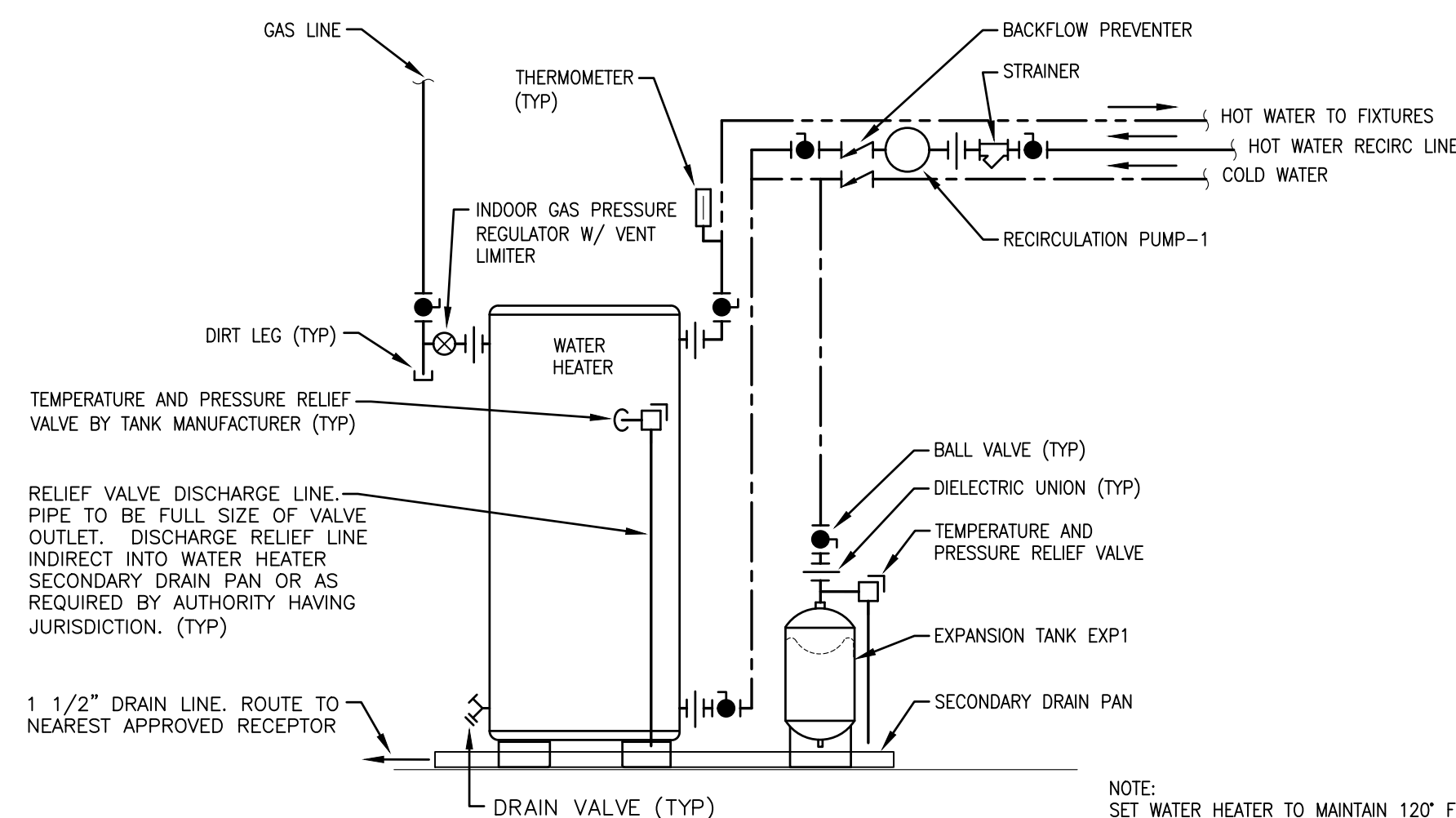
1. INSTALL PER MANUFACTURER'S RECOMMENDATION.
2. PROVIDE TEMPERATURE AND PRESSURE RELIEF VALVE PER ASME OR AGA APPROVAL.
3. FURNISH AND INSTALL WATER HEATER VENTING. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR FLUE MATERIAL TYPE AND SIZING INSTRUCTIONS. COORDINATE FLUE PENETRATIONS WITH METAL BUILDING MANUFACTURER.
4. APPROVED EQUAL MANUFACTURER'S: BRADFORD WHITE, STATE, RHEIM.

PUMP SCHEDULE

MARK	SERVICE	LOCATION	MANUFACTURER	MODEL	GPM	HEAD FT.	MOTOR				REMARKS
							WATTS/(HP)	FLA	RPM	VOLTAGE	
PUMP 1	WATER RECIRC	AT WH-1	BELL & GOSSETT	PL-30B	3	15	90	0.80	2,650	120/1/60	1,2,3
PUMP 2	SUMP PUMP	ELEVATOR PIT	STANCOR	SE100	50	33	1.0	12.0	3,450	120/1/60	4,5,6

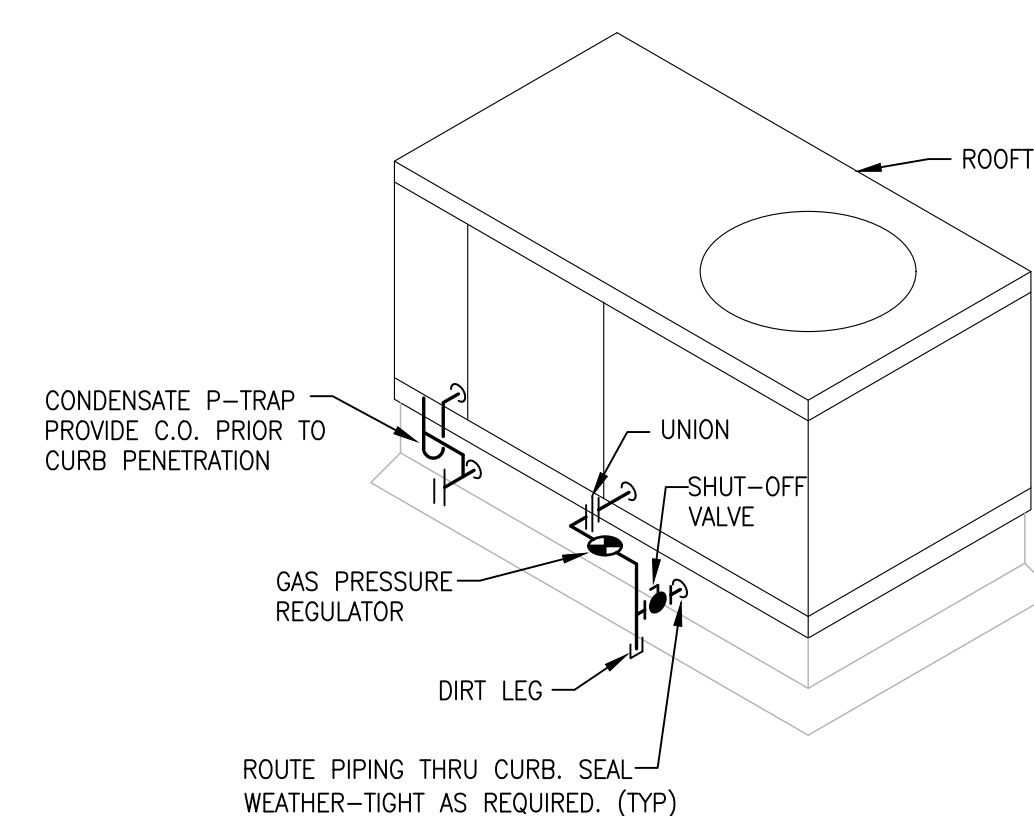
REMARKS:

1. BRONZE WET ROTOR INLINE CIRCULATOR PUMP.
2. PROVIDE 3/4" THREADED CONNECTIONS.
3. PROVIDE POWER CORD AND PLUG.
4. PROVIDE OIL-MINDER CONTROLLER, POWER CORD AND PLUG.
5. PROVIDE WITH MERCURY FLOAT SWITCH. 2" PUMP DISCHARGE. INSTALL FULLSIZE UNION, BALL VALVE, AND CHECK VALVE.
6. COORDINATE REQUIRED BASIN DIAMETER AND DEPTH WITH GENERAL CONTRACTOR.



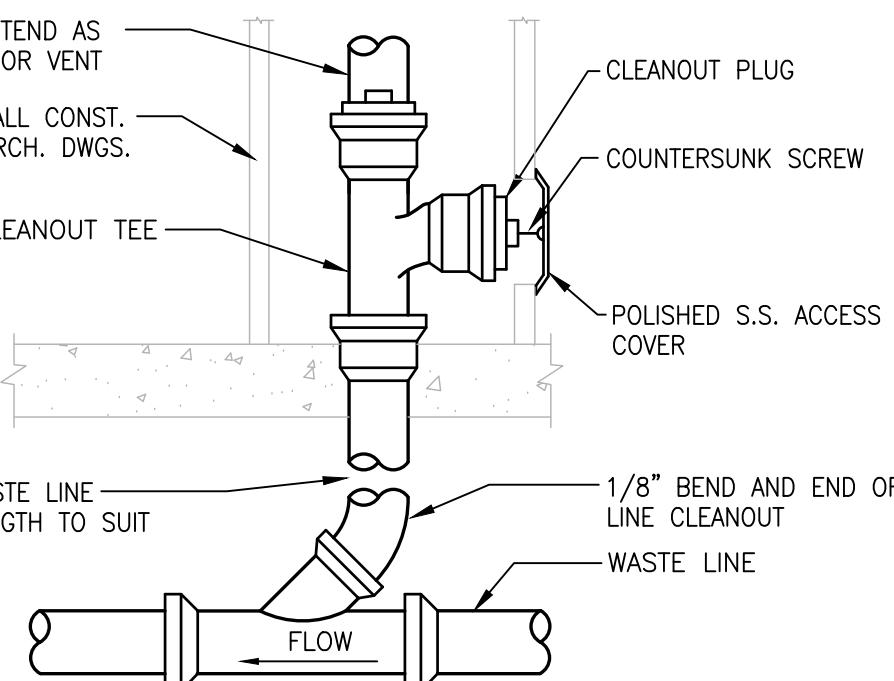
3 GAS WATER HEATER

SCALE: NTS



2 ROOFTOP HVAC UNIT PIPING

SCALE: NTS



1 WALL CLEANOUT

SCALE: NTS

100% CONSTRUCTION
DOCUMENTS
03.03.2025

EVERGREEN BAPTIST
CHURCH - PHASE 5

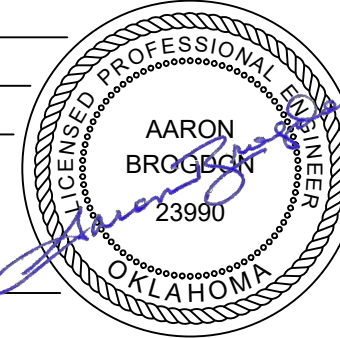
10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

JOB 2023.14
ISSUE 03.03.2025
DRAWN BY:
CHKD BY:

P501

SCALE



3-3-25

CONSULTANT:

Reference Cover Sheet
for Consultant Directory

System No. F-A-2058
F Rating — 2 Hr
T Rating — 0 Hr

CLASSIFIED
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to UL 1479 and CANULC S115

FA 2058

1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Max diam of opening is 4 in. (102 mm)
1A. Floor Assembly — (Optional — Not Shown) — The fire-rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series designs in the UL Fire Resistance Directory and as summarized below:
A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
B. Steel Floor and Form Unit* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design. Max diam of opening is 4 in. (102 mm)
2. Through Penetrants — One nonmetallic pipe to be installed concentrically or eccentrically within the firestop system. Annular space between pipe or conduit and edge of opening to be min 3/8 in. and max 1 in. (9.5 to 25 mm). Pipe to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of nonmetallic pipes or conduits may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR17 CPVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
3. Fill, Void or Cavity Materials*—Sealant — Min 2-1/2 in. (64 mm) thickness of sealant applied within annular space, flush with top surface of floor.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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January 15, 2015

System No. W-L-5028

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WL 5028

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 7-1/2 in. (191 mm)
The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
B. Copper Tubing — Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
C. Copper Pipe — Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 7-1/2 in. (191 mm)
The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe.
B. Copper Tubing — Nom 2 in. (51 mm) diam (or smaller) Type L (or heavier) copper tubing.
C. Copper Pipe — Nom 2 in. (51 mm) diam (or smaller) Regular (or heavier) copper pipe.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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System No. W-L-5028

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WL 5028

3. Tube Insulation — Plastics+ — Min 1/2 in. (13 mm) to max 1 in. (25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing. An annular space of min 0 in. (point contact) to max 1-1/2 in. (38 mm) is required within the firestop system. The T, FT and FTH Ratings are 1 hr when the 1 in. (25 mm) thick tube insulation is used and 3/4 hr when the 3/4 in. (19 mm) thick tube insulation is used. When tube insulation thickness is less than 3/4 in. (19 mm), the T, FT and FTH Ratings are 0 Hr.
See Plastics+ (GMFZ) category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL 94 Flammability Classification of 94-5VA may be used.
4. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.
At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
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System No. C-AJ-1291

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CAJ 1291

1. Floor or Wall Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 30-7/8 in. (784 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Through-Penetrant — One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe or conduit and periphery of opening shall be min 0 in. to max 7/8 in. (22 mm). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
E. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit.
F. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
3. Fill, Void or Cavity Material* — Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. At the point contact location between pipe and concrete, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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System No. W-L-1054

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WL 1054

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. For M Rating, steel studs to be min 3-5/8 in. (92 mm) wide. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wider and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.
B. Gypsum Board* — 5/8 in. (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls. The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly. The M Rating is applicable only to 1 hr rated walls.

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.
B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Diam of opening shall be 1 in. (25 mm) larger than the nom pipe diam.
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and the periphery of the opening shall be min 0 in. (point contact) to a max 1/2 in. (13 mm). The following types and sizes of nonmetallic pipes may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) cellular or solid core Schedule 40 (or heavier) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems.
C. Crosslinked Polyethylene (PEX) Tubing — Nom 2 in. (51 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
D. Rigid Nonmetallic Conduit (RNC)+ — Nom 2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact location, a min 5/8 in. (16 mm) diam bead of fill material shall be applied to the wall/penetrant interface on both surfaces of the wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or FS-ONE MAX Intumescent Sealant
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
+ Bearing the UL Listing Mark

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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System No. W-L-1054

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to UL 1479

WL 1054

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
A. Steel Pipe — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe — Nom 30 in. (762 mm) diam (or smaller) cast or ductile iron pipe.
C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.
D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall.
At the point or continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE MAX Intumescent Sealant

Movement Direction	Penetrant Item	Nominal Penetrant Diameter	Annular Space	Movement	Sealant Depth	F-Rating	L Rating with Movement
Y	2A, 2C*	2 in.	Max 2-1/4 in.	5%	5/8 in.	1 hr	N/A
Z	2A, 2C*	2 in.	2-1/4 in.	0.25 in.	5/8 in.	1 hr	N/A

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January 26, 2020

Page: 2 of 2

System No. W-L-2474
F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating at 400° F - 4 CFM/Sq Ft

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to UL 1479

WL 2474

1. Wall Assembly — The fire-rated gypsum board/steel wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below:
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.
B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board, as specified in the individual Wall and Partition Design. Diam of opening shall be 1 in. (25 mm) larger than the nom pipe diam.
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants — One nonmetallic pipe to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe and the periphery of the opening shall be min 0 in. (point contact) to a max 1/2 in. (13 mm). The following types and sizes of nonmetallic pipes may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) cellular or solid core Schedule 40 (or heavier) pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 2 in. (51 mm) diam (or smaller) SDR 17 CPVC pipe for use in closed (process or supply) piping systems.
C. Crosslinked Polyethylene (PEX) Tubing — Nom 2 in. (51 mm) diam (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
D. Rigid Nonmetallic Conduit (RNC)+ — Nom 2 in. diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
3. Fill, Void or Cavity Material* — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact location, a min 5/8 in. (16 mm) diam bead of fill material shall be applied to the wall/penetrant interface on both surfaces of the wall.
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* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.
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January 26, 2015

100% CONSTRUCTION DOCUMENTS
03.03.2025

EVERGREEN BAPTIST CHURCH - PHASE 5

10301 EAST 111TH ST. S.
BROKEN ARROW, OKLAHOMA 74011

REVISIONS

#	DATE	DESCRIPTION
1	03/14/2025	CITY COMMENTS
2	04/10/2025	REVISION #2

PLUMBING FIRE STOP DETAILS

AARON BROGDON, PE
OK LICENSE NO. 23990
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OK OK #7856

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