

# OFFICE RENOVATION FOR VILTIES HOLDINGS LLC

4951 FORSYTH ROAD, MACON, GA 31210

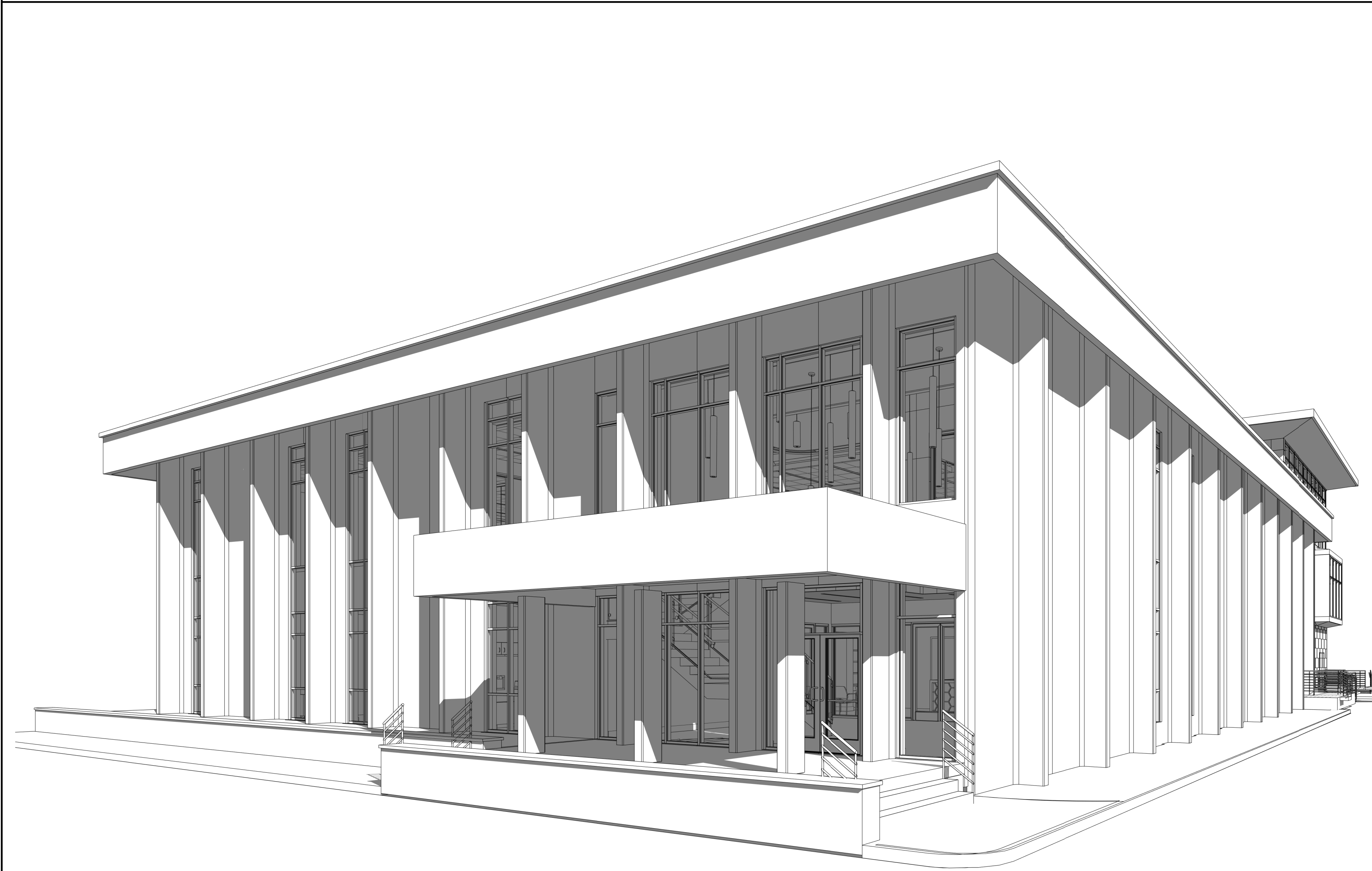


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OFFICE RENOVATION FOR VILTIES  
HOLDINGS LLC


4951 FORSYTH ROAD, MACON, GA 31210



| CONSULTANTS   | SCOPE OF WORK | DEFERRED SUBMISSIONS |
|---|---------------|----------------------|
| <p><b>CIVIL ENGINEER</b><br/>REEVES DESIGN SERVICES<br/>4875 RIVERSIDE DRIVE, MACON, GA 31210<br/>478.781.1833</p> <p><b>STRUCTURAL</b><br/>KORNEGAY ENGINEERING<br/>363 PIERCE AVE, STE 202<br/>MACON, GA 31204<br/>478.745.6161</p> <p><b>PLUMBING, MECHANICAL, &amp; FIRE PROTECTION ENGINEER</b><br/>TOTAL ENGINEERS<br/>169 NEW ST, MACON, GA 31201<br/>478.741.4632</p> <p><b>ELECTRICAL ENGINEER</b><br/>ELECTRICAL DESIGN CONSULTANTS<br/>175 NEW ST, STE 1, MACON, GA 31201<br/>478.781.1833</p> |               |                      |

| ARCHITECT'S CONTACT  |
|--|
| GENE DUNWODY, JR.<br>GDUNWODYJR@DUNWODYBEELAND.COM<br>478.742.5321 |

| NOTES  |
|--|
| GENERAL: SITE IS REQUIRED TO MEET 2018 INTERNATIONAL FIRE CODE (IFC) 2018 EDITION, SECTION 510: IN-BUILDING EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM AS AMENDED BY THE RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER, CHAPTER 120-3-3/04 (3) {E} 6. |

| VICINITY MAP   |
|--|
|  <p>PROJECT LOCATION</p> |

| INDEX OF DRAWINGS |  | INDEX OF DRAWINGS |  | INDEX OF DRAWINGS |                                       | INDEX OF DRAWINGS |                                       | APPLICABLE CODES  |
|-------------------|--|-------------------|--|-------------------|---------------------------------------|-------------------|---------------------------------------|---|
| SHEET NUMBER      | SHEET NAME                               | SHEET NUMBER      | SHEET NAME                                     | SHEET NUMBER      | SHEET NAME                            | SHEET NUMBER      | SHEET NAME                            |   |
| A0.0              | TITLE SHEET                              | A6.2              | STAIR PLANS AND DETAILS                        | P0.1              | PLUMBING SPECIFICATIONS               | E4.1              | RISER DIAGRAM, SCHEDULES, AND DETAILS |   |
| LS1               | FIRST FLOOR LIFE SAFETY PLAN             | A6.3              | STAIR SECTIONS                                 | P0.2              | FIRE SPRINKLER SPECIFICATIONS         | E4.2              | SCHEDULES                             |   |
| LS2               | SECOND AND THIRD FLOOR LIFE SAFETY PLANS | A6.4              | STAIR SECTIONS & DETAILS                       | P1.1              | FIRST FLOOR PLUMBING PLAN - SEWER     | E4.3              | SCHEDULES AND DETAILS                 |   |
| A1.1              | FIRST FLOOR DEMOLITION PLAN              | A6.5              | STAIR SECTIONS & DETAILS                       | P1.2              | FIRST FLOOR PLUMBING PLAN - WATER     |                   |                                       | <ul style="list-style-type: none"><li>2018 INTERNATIONAL BUILDING CODE, AS AMENDED BY THE STATE OF GEORGIA</li><li>2018 INTERNATIONAL FUEL GAS CODE, AS AMENDED BY THE STATE OF GEORGIA</li><li>2018 INTERNATIONAL MECHANICAL CODE, AS AMENDED BY THE STATE OF GEORGIA</li><li>2018 INTERNATIONAL PLUMBING CODE, AS AMENDED BY THE STATE OF GEORGIA</li><li>2018 INTERNATIONAL ENERGY CONSERVATION CODE, AS AMENDED BY THE STATE OF GEORGIA</li><li>2020 NATIONAL ELECTRICAL CODE, AS AMENDED BY THE STATE OF GEORGIA</li><li>2018 INTERNATIONAL FIRE CODE, AS ADOPTED AND AMENDED BY THE RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER CHAPTER 120-3-3.04 (3)</li><li>2018 LIFE SAFETY CODE, AS ADOPTED AND AMENDED BY THE RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER CHAPTER 120-3-3.04 (72)</li><li>2020 ADA STANDARDS FOR ACCESSIBLE DESIGN AS ADOPTED BY THE RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER CHAPTER 120-3-20.02 (2) (B)</li><li>RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER CHAPTER 120-3-3 (STATE MINIMUM FIRE SAFETY STANDARDS)</li><li>RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER CHAPTER 120-3-20 (ACCESS TO AND USE OF PUBLIC FACILITIES BY HANDICAPPED PERSONS)</li></ul> |
| A1.2              | SECOND FLOOR DEMOLITION PLAN             | A6.6              | STAIR SECTIONS                                 | P2.1              | SECOND FLOOR PLUMBING PLAN            |                   |                                       |   |
| A1.3              | ROOF DEMOLITION PLAN                     | A8.1              | LARGE SCALE PLANS AND INTERIOR ELEVATIONS      | P2.2              | SECOND FLOOR RESTROOMS PLUMBING PLAN  |                   |                                       |   |
| A1.4              | EXTERIOR ELEVATION DEMOLITION            | A8.2              | INTERIOR ELEVATIONS                            | P3.1              | THIRD FLOOR PLUMBING PLAN             |                   |                                       |   |
| A0.1              | SITE PLAN                                | A8.3              | INTERIOR ELEVATIONS                            | M0.1              | MECHANICAL SPECIFICATIONS             |                   |                                       |   |
| A2.1              | FIRST AND SECOND FLOOR PLANS             | A8.4              | INTERIOR ELEVATIONS                            | M0.2              | MECHANICAL SPECIFICATIONS             |                   |                                       |   |
| A2.2              | THIRD FLOOR PLAN                         | A8.5              | INTERIOR ELEVATIONS                            | M0.3              | MECHANICAL SCHEDULES                  |                   |                                       |   |
| A2.3              | ROOF PLAN                                | A8.6              | INTERIOR ELEVATIONS                            | M0.4              | MECHANICAL DETAILS                    |                   |                                       |   |
| A3.1              | FINISH SCHEDULE                          | A8.7              | INTERIOR ELEVATIONS                            | M0.5              | MECHANICAL DETAILS                    |                   |                                       |   |
| A3.2              | DOOR SCHEDULE                            | A8.8              | CASEWORK DETAILS                               | M1.0              | FIRST FLOOR MECHANICAL PLAN           |                   |                                       |   |
| A3.3              | STOREFRONT ELEVATIONS                    | A8.9              | CASEWORK DETAILS                               | M2.0              | SECOND FLOOR MECHANICAL PLAN          |                   |                                       |   |
| A3.4              | STOREFRONT ELEVATIONS & DETAILS          | A8.10             | LARGE SCALE PLANS & DETAILS                    | M3.0              | THIRD FLOOR MECHANICAL PLAN           |                   |                                       |   |
| A3.5              | STOREFRONT ELEVATIONS & DETAILS          | A9.1              | FIRST AND SECOND FLOOR REFLECTED CEILING PLANS | E1.1              | LEGENDS, NOTES, AND DETAILS           |                   |                                       |   |
| A3.6              | STOREFRONT ELEVATIONS AND DETAILS        | A9.2              | THIRD FLOOR REFLECTED CEILING PLAN             | E1.2              | LIGHTING FIXTURE SCHEDULE             |                   |                                       |   |
| A4.1              | ELEVATIONS                               | S0.0              | GENERAL NOTES                                  | E1.3              | SPECIFICATIONS                        |                   |                                       |   |
| A4.2              | ELEVATIONS                               | S0.1              | GENERAL NOTES                                  | E2.1              | FIRST FLOOR PLAN - LIGHTING           |                   |                                       |   |
| A5.1              | WALL SECTIONS                            | S1.1              | FOUNDATION PLAN                                | E2.2              | SECOND FLOOR PLAN - LIGHTING          |                   |                                       |   |
| A5.2              | WALL SECTIONS                            | S1.2              | FOUNDATION SECTIONS                            | E2.3              | THIRD FLOOR PLAN - LIGHTING           |                   |                                       |   |
| A5.3              | WALL SECTIONS                            | S2.1              | SECOND FLOOR FRAMING PLAN AND SECTIONS         | E3.1              | FIRST FLOOR PLAN - POWER AND SYSTEMS  |                   |                                       |   |
| A5.4              | DETAILS                                  | S3.1              | THIRD FLOOR FRAMING PLAN                       | E3.2              | SECOND FLOOR PLAN - POWER AND SYSTEMS |                   |                                       |   |
| A6.1              | ELEVATOR PLANS, SECTIONS, & DETAILS      | S4.1              | ROOF FRAMING PLAN                              | E3.3              | THIRD FLOOR PLAN - POWER AND SYSTEMS  |                   |                                       |   |

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Sheet Title:  
TITLE SHEET

Project #: 2229      Date: 4/18/2025

A0.0



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1  
LS1

FIRST FLOOR LIFE SAFETY PLAN

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



WALL LEGEND  
INDICATES 1 HOUR FIRE WALL - SEE SHEET A2.2 FOR WALL TYPES

LEGEND  
FEC FIRE EXTINGUISHER AND CABINET

- APPLICABLE CODES
- 2018 International Building Code, as amended by the State of Georgia
  - 2018 International Mechanical Code, as amended by the State of Georgia
  - 2018 International Plumbing Code, as amended by the State of Georgia
  - 2018 International Fuel Gas Code, as amended by the State of Georgia
  - 2018 International Fire Code, as amended by the State Safety Fire Commissioner's Rules and Regulations Chapter 120-3-3.04(3)
  - 2018 Life Safety Code as amended by the State Safety Fire Commissioner's Rules and Regulations Chapter 120-3-3(72)
  - 2018 International Energy Conservation Code, as amended by the State of Georgia
  - 2020 National Electrical Code, as amended by the State of Georgia
  - 2010 ADA Standards for Accessible Design with Georgia Amendment of Rule 120-3-20-02(2)(B)
  - 2003 ANSI A117.1 with Georgia Amendment of Rule 120-3-20
  - Rules and regulations of the Safety Fire Commissioner Chapter 120-3-3 (State Minimum Fire Safety Standards)
  - Rules and regulations of the Safety Fire Commissioner Chapter 120-3-20 (Access to And Use of Public Facilities by Handicapped Persons)

LIFE SAFETY DATA  
USE AND OCCUPANCY CLASSIFICATION:  
(IBC) BUSINESS  
(LSC) BUSINESS  
CONSTRUCTION CLASSIFICATION:  
(LSC) CONSTRUCTION TYPE IIB SPRINKLED  
(IBC) CONSTRUCTION TYPE IIB SPRINKLED

DEAD END CORRIDOR (IBC 1020.4) EXCEPTION 2: 50 FEET, (LSC 42.2.5): 100 FEET  
EXIT ACCESS TRAVEL DISTANCE (IBC 1017.2) (LSC 38.2.6.3): 300 FEET  
TOTAL ALLOWED AREA: 69,000  
OCCUPANT LOAD: 238

BUSINESS TYPE IIB CONSTRUCTION:  
TOTAL AREA ALLOWED - 69,000  
TOTAL BUILDING AREA - 35,716  
COMMON PATH OF TRAVEL: 100 FEET  
EXIT ACCESS TRAVEL DISTANCE: 300 FEET  
DEAD END CORRIDOR: 50 FEET  
CORRIDOR FIRE RESISTANCE RATING: 0 HOURS

CONSTRUCTION DATA

508.4.2 Allowable area for each floor:

|            |   |
|------------|---|
| 1st Floor: | B: Actual Area: 15,546; Allowed Area: 65,000; Actual/Allowable Area 15,546/65,000 = 0.22 < 1.0 OK |
| 2nd Floor: | B: Actual Area: 15,653; Allowed Area: 65,000; Actual/Allowable Area 15,653/65,000 = 0.24          |
| 3rd Floor: | B: Actual Area: 4,517; Allowed Area: 65,000; Actual/Allowable Area 4,517/65,000 = 0.07 < 1.0 OK   |

FIRE SEPARATION REQUIREMENTS  
None

OCCUPANCY

|               |              |             |
|---------------|--------------|-------------|
| First Floor   | 15,546 / 150 |             |
| Total         |              | 104 Persons |
| Second Floor  | 15,653 / 150 |             |
| Total         |              | 104 Persons |
| Third Floor   | 4,517 / 150  | 30 Persons  |
| Overall Total |              | 238 Persons |



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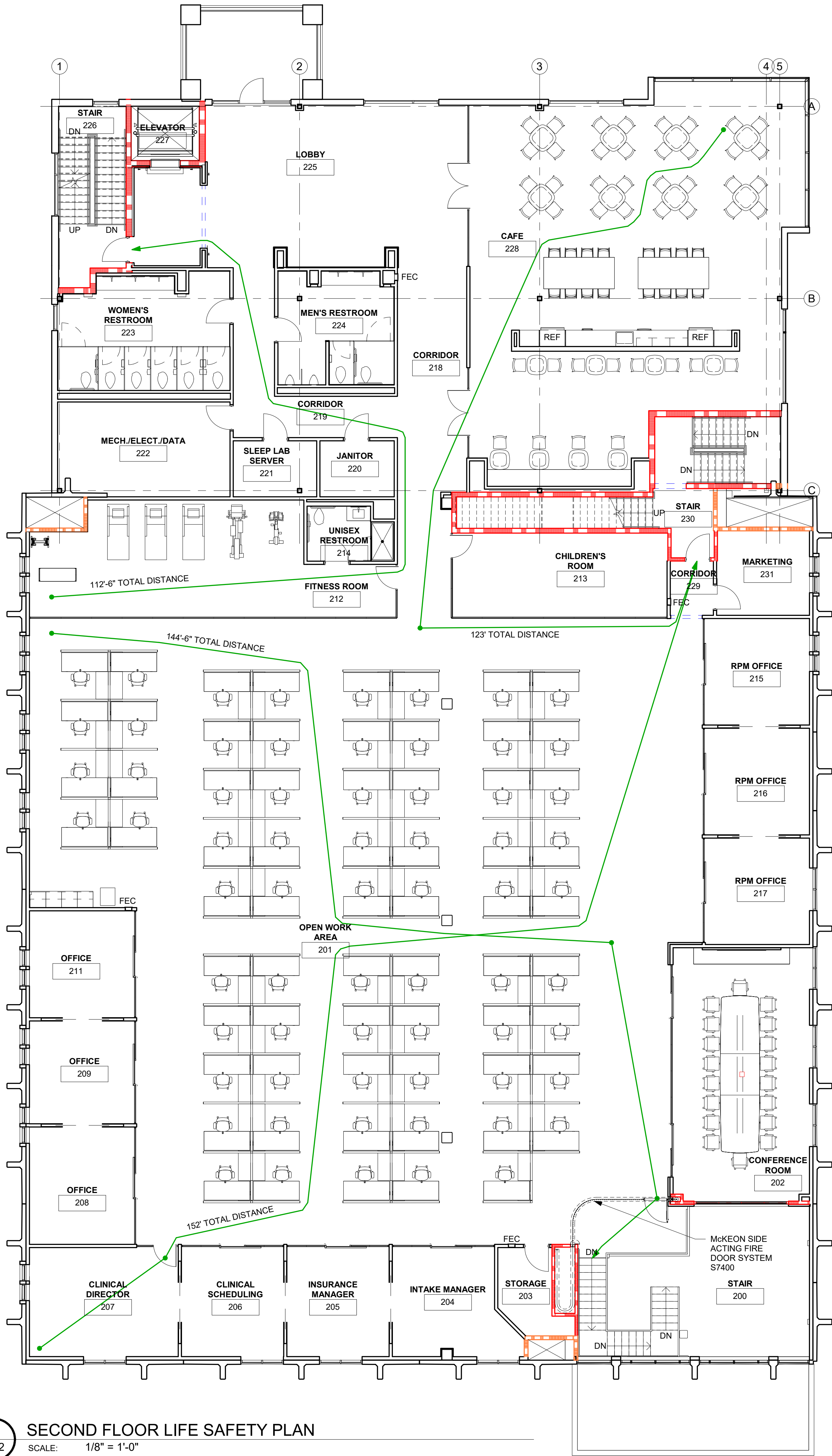
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Sheet Title:  
FIRST FLOOR  
LIFE SAFETY  
PLAN

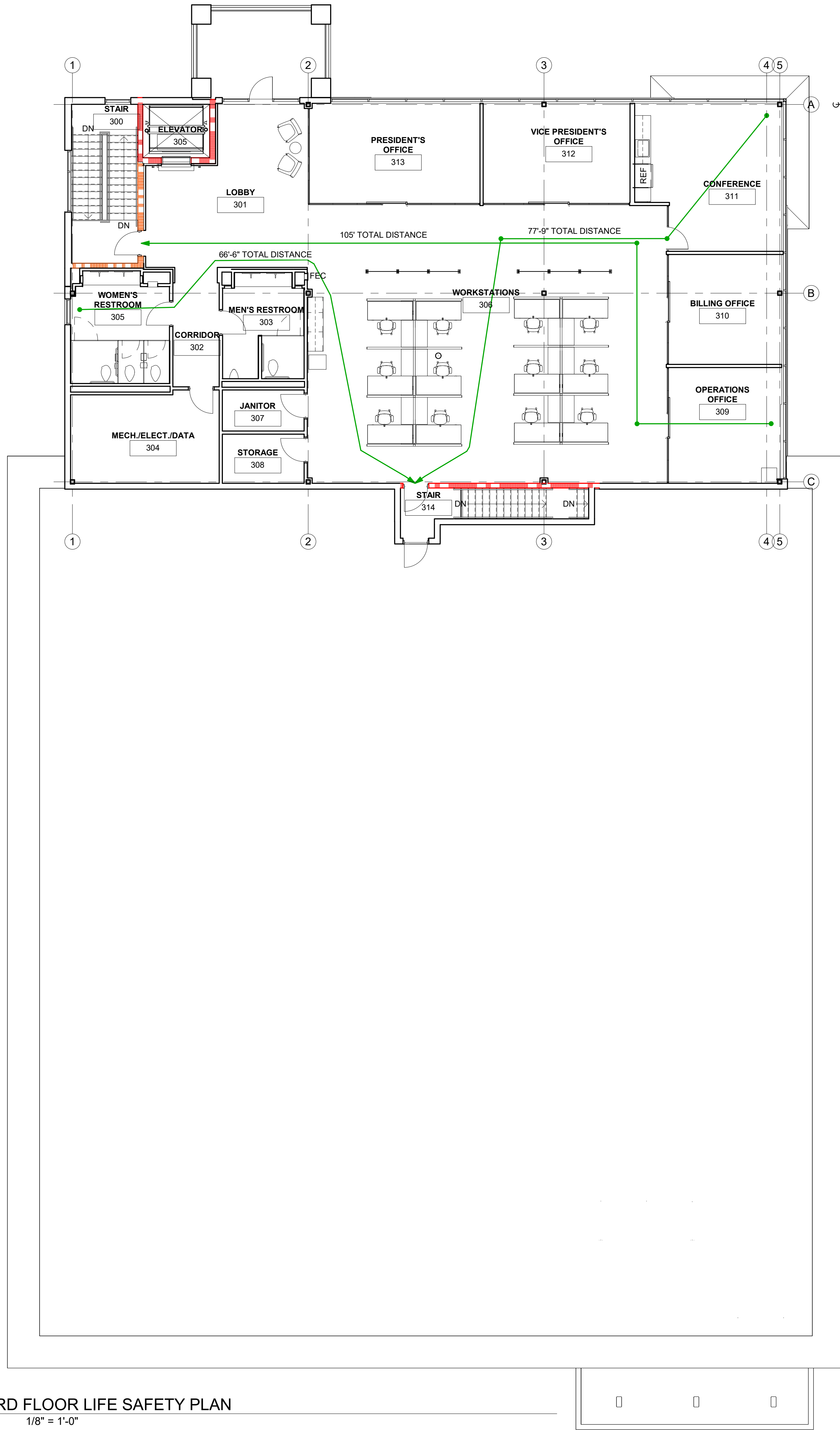
Project #: 2229 Date: 4/18/2025

LS1

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2  
LS2  
SECOND FLOOR LIFE SAFETY PLAN  
SCALE: 1/8" = 1'-0"



1  
LS2  
THIRD FLOOR LIFE SAFETY PLAN  
SCALE: 1/8" = 1'-0"



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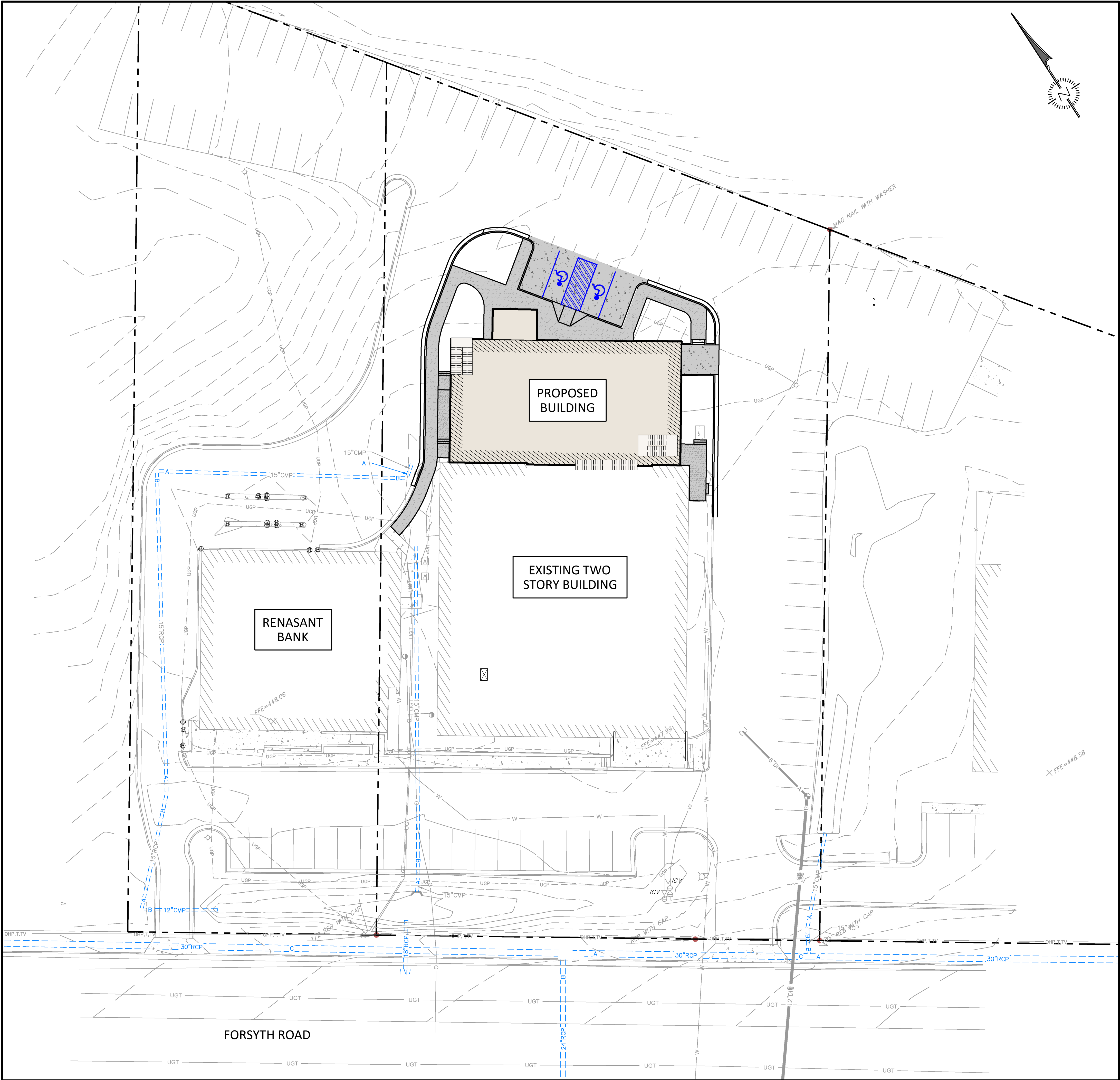
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**SECOND AND  
THIRD FLOOR  
LIFE SAFETY  
PLANS**

Project #: 2229    Date: 4/18/2025

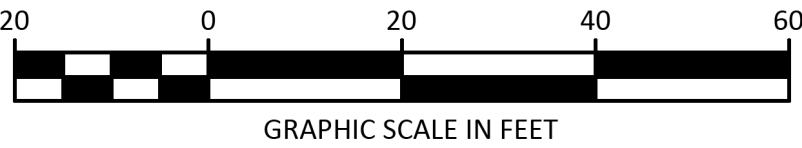
**LS2**



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1 SITE PLAN  
A0.1 SCALE: 1" = 20'-0"



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Sheet Title:  
SITE PLAN

Project #: 2229 Date: 4/18/2025

A0.1

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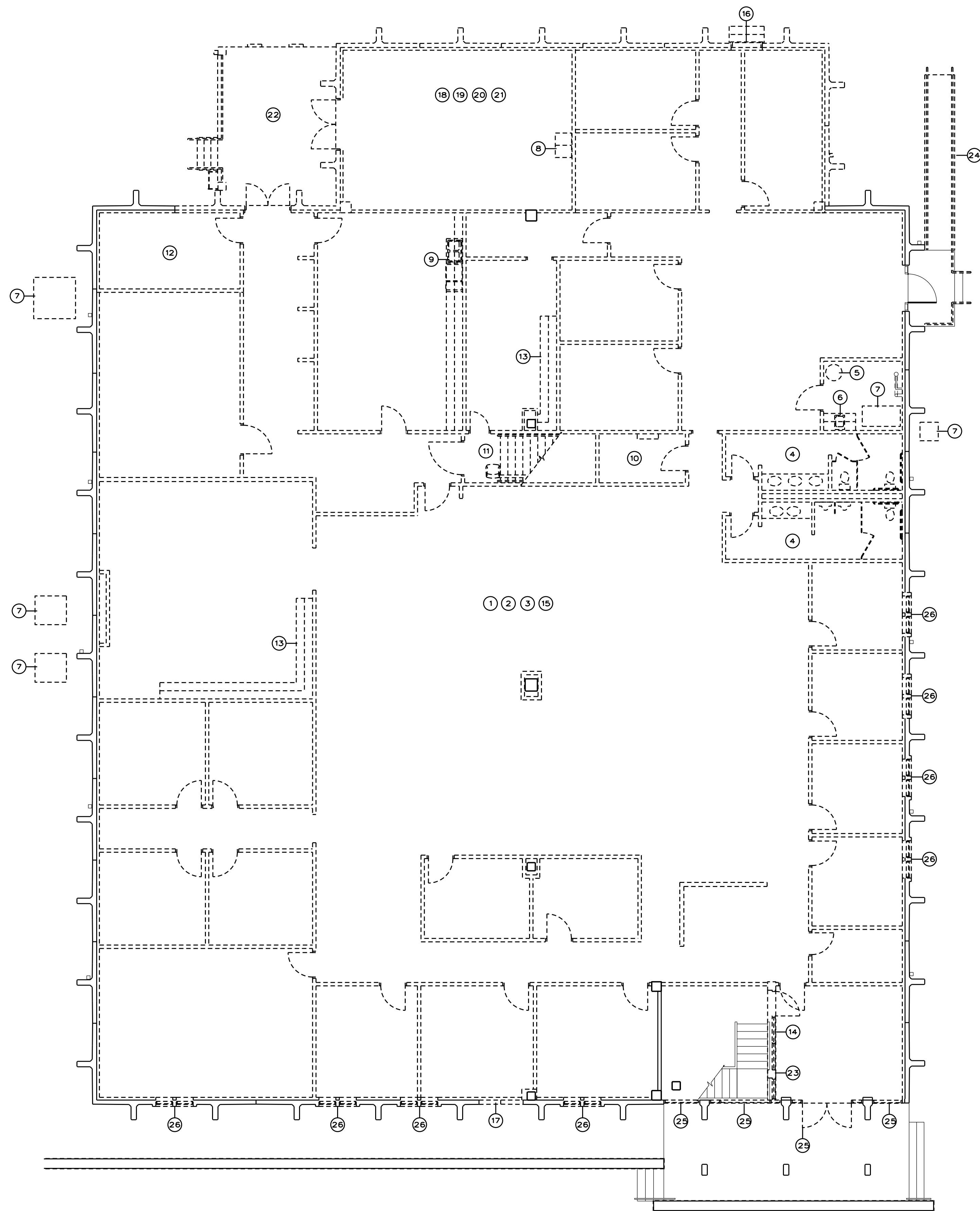
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www.dunwodybeeland.com







NOTES:

- 1. REMOVE EXISTING GYP BD. AND ST. STUD FRAMING WALLS AND ASSOCIATED DOORS AND FRAMES IN INDICATED WALLS
- 2. REMOVE ALL EXISTING ACOUSTICAL CEILING TILES AND GRID SYSTEM
- 3. REMOVE ALL EXISTING FLOOR FINISHES. CONTRACTOR TO PERFORM SITE VISIT TO VERIFY FINISHES LOCATIONS
- 4. REMOVE EXISTING TOILET FIXTURES AND ASSOCIATED PLUMBING, GRAB BARS, PARTITIONS, LAVATORIES AND COUNTERS
- 5. REMOVE EXISTING WATER HEATER
- 6. REMOVE EXISTING SINK, ASSOCIATED PLUMBING AND CABINETS
- 7. REMOVE EXISTING HVAC EQUIPMENT
- 8. REMOVE EXISTING SERVICE SINK AND ASSOCIATED PLUMBING
- 9. REMOVE EXISTING SINK, DISH WASHER, ICE MAKER, ASSOCIATED PLUMBING AND CABINETS
- 10. REMOVE EXISTING MINISPLIT HVAC EQUIPMENT AND ALL ELECTRICAL/COMMUNICATIONS EQUIPMENT
- 11. REMOVE EXISTING STAIRS AND STAIR LIFT
- 12. REMOVE ALL EXISTING HVAC EQUIPMENT, DUCT, AND PIPING IN THIS ROOM AS REQUIRED
- 13. REMOVE EXISTING CABINETS
- 14. REMOVE EXISTING STOREFRONT AND ALUMINUM DOOR
- 15. REMOVE EXISTING OFFICE CUBICAL WALLS, DESKS AND CABINETS
- 16. REMOVE EXISTING H.M. DOOR, FRAME AND CONCRETE STEPS
- 17. CUT NEW OPENING IN EXISTING PRECAST AS REQUIRED FOR NEW WINDOW OPENING
- 18. REMOVE EXISTING EXTERIOR PRECAST CONCRETE WALL PANELS.
- 19. REMOVE EXISTING PRECAST CONCRETE ROOF BEAMS AND PANELS
- 20. REMOVE EXISTING CONCRETE SLAB AND FOUNDATIONS FOR THE 1 STORY BUILDING
- 21. REMOVE EXISTING DOORS
- 22. REMOVE EXISTING EXTERIOR DOCK SLAB AND FOUNDATIONS, STEPS, AND RAILS
- 23. REMOVE EXISTING CONCRETE BEAM ABOVE AND 2 CONC COLUMNS BELOW.
- 24. REMOVE EXISTING CONCRETE RAMP AND RAILINGS.
- 25. REMOVE EXISTING ALUM FRAME STOREFRONT SYSTEMS.
- 26. REMOVE EXISTING WINDOW AND PRECAST SYSTEM. CUT AND REMOVE PRECAST SYSTEM ABOVE AS REQUIRED FOR NEW STOREFRONT INSTALLATION.

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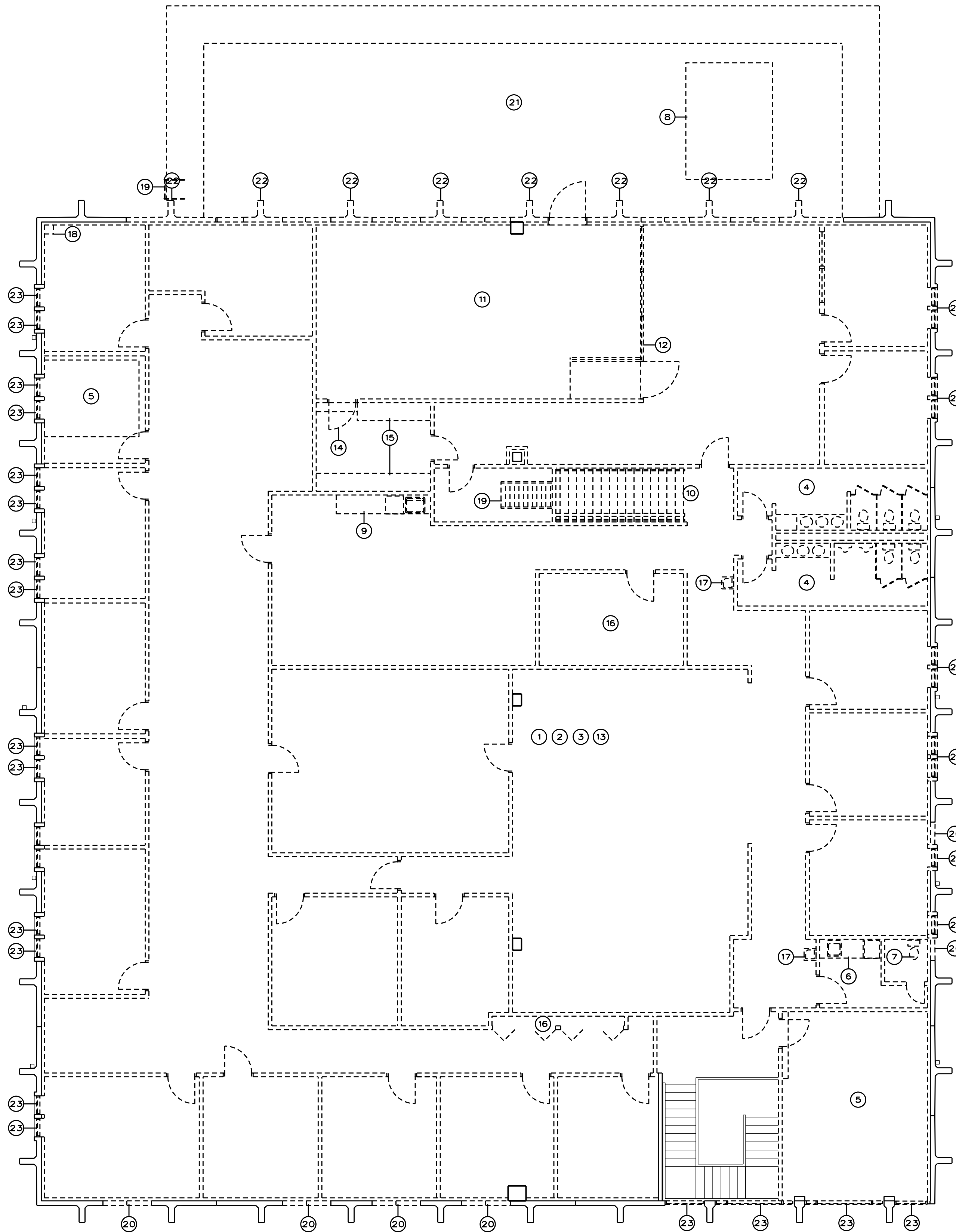
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Sheet Title:  
FIRST FLOOR  
DEMOLITION PLAN

Project #: 2229      Date: 4/18/2025





NOTES:

- 1. REMOVE EXISTING GYP BD. AND ST. STUD FRAMING WALLS AND ASSOCIATED DOORS AND FRAMES IN INDICATED WALLS
- 2. REMOVE ALL EXISTING ACOUSTICAL CEILING TILES AND GRID SYSTEM
- 3. REMOVE ALL EXISTING FLOOR FINISHES. CONTRACTOR TO PERFORM SITE VISIT TO VERIFY FINISHES LOCATIONS
- 4. REMOVE EXISTING TOILET FIXTURES AND ASSOCIATED PLUMBING, GRAB BARS, PARTITIONS, LAVATORIES AND COUNTERS
- 5. REMOVE EXISTING CONCRETE FLOOR
- 6. REMOVE EXISTING SINK, UNDER COUNTER REFRIGERATOR, ASSOCIATED PLUMBING AND CABINETS
- 7. REMOVE EXISTING TOILET AND ASSOCIATED PLUMBING
- 8. REMOVE EXISTING HVAC EQUIPMENT
- 9. REMOVE EXISTING SINK, DISH WASHER, ASSOCIATED PLUMBING AND CABINETS
- 10. REMOVE EXISTING STAIRS AND STAIR LIFT
- 11. REMOVE EXISTING RAISED ACCESS FLOOR AND HAND RAIL
- 12. REMOVE EXISTING STOREFRONT AND ALUMINUM DOOR
- 13. REMOVE EXISTING OFFICE CUBICAL WALLS, DESKS AND CABINETS
- 14. REMOVE EXISTING H.M. DOOR, FRAME AND STEP
- 15. REMOVE EXISTING COUNTER AND SHELVING
- 16. REMOVE EXISTING SHELVING
- 17. REMOVE EXISTING ELECTRIC WATER COOLER AND ASSOCIATED PLUMBING AND ELECTRICAL WIRING
- 18. REMOVE EXISTING ACCESS PANEL AND WALL
- 19. REMOVE EXISTING METAL ACCESS LADDER
- 20. CUT NEW OPENING IN EXISTING PRECAST AS REQUIRED FOR NEW WINDOW OPENING
- 21. REMOVE EXISTING PRECAST CONCRETE ROOF STRUCTURE AND PARAPET AND LADDER
- 22. REMOVE EXISTING PRECAST CONCRETE WALL PANELS AND DOOR
- 23. REMOVE EXISTING ALUM FRAME STOREFRONT SYSTEMS.
- 24. REMOVE EXISTING WINDOW AND PRECAST SYSTEM. CUT AND REMOVE PRECAST SYSTEM ABOVE AS REQUIRED FOR NEW STOREFRONT INSTALLATION.

1  
A1.2

SECOND FLOOR DEMOLITION PLAN

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

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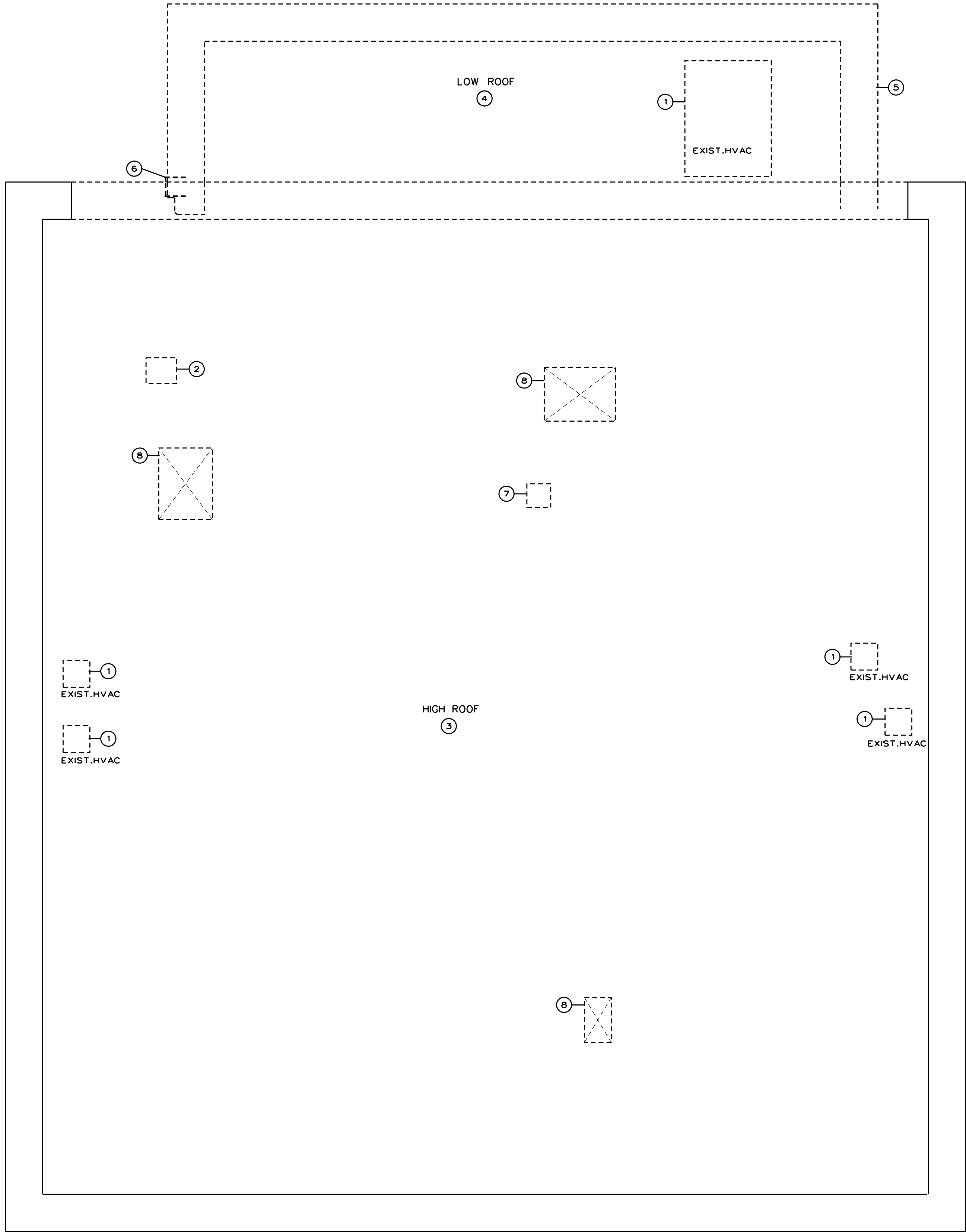
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Sheet Title:  
SECOND FLOOR  
DEMOLITION PLAN

Project #: 2229      Date: 4/18/2025

A1.2





**NOTES:**

1. REMOVE EXISTING HVAC EQUIPMENT
2. REMOVE EXISTING ROOF DECK AS REQUIRED FOR NEW ROOF ACCESS
3. REMOVE EXISTING ROOFING MEMBRANE
4. REMOVE EXISTING ROOFING BALLAST
5. REMOVE EXISTING COCRETE ROOF MEMBERS AND PARAPET
6. REMOVE EXISTING ACCESS LADDER
7. REMOVE EXISTING RROOF ACCESS HATCH
8. CUT AND REMOVE EXISTING CONCRETE PANEL AS REQUIRED FOR NEW HVAC DUCTWORK OPENING. OPENINGS SHALL BE CENTERED ON T-PANEL JOINT. COORDINATE SIZE REQUIREMENTS AND LOCATIONS WITH MECHANICAL CONTRACTOR

1  
A1.3

**ROOF DEMOLITION PLAN**

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

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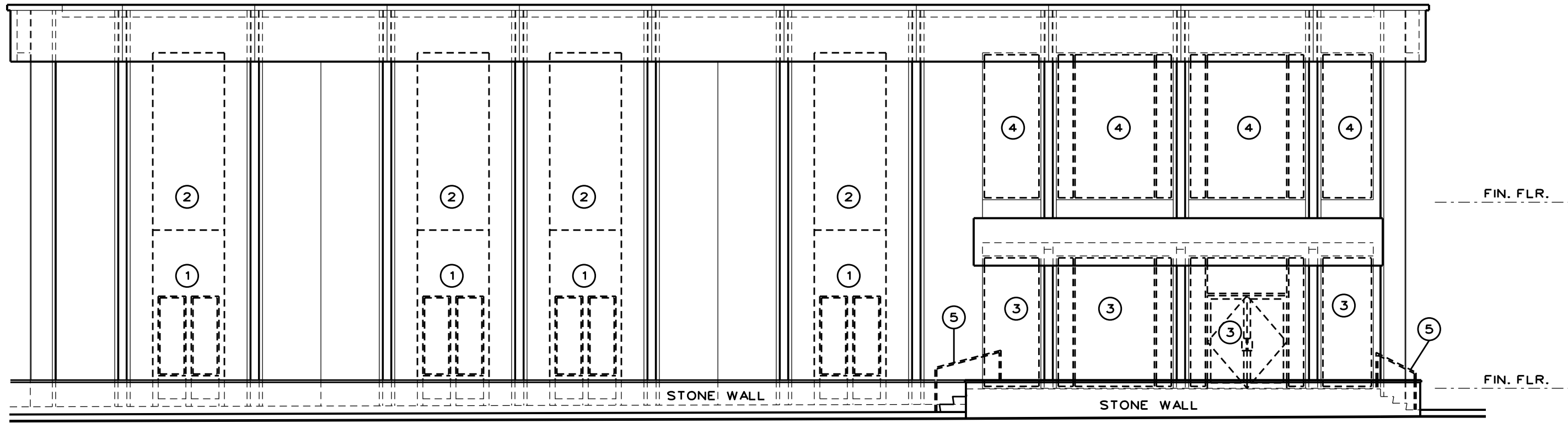
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ROOF DEMOLITION  
PLAN

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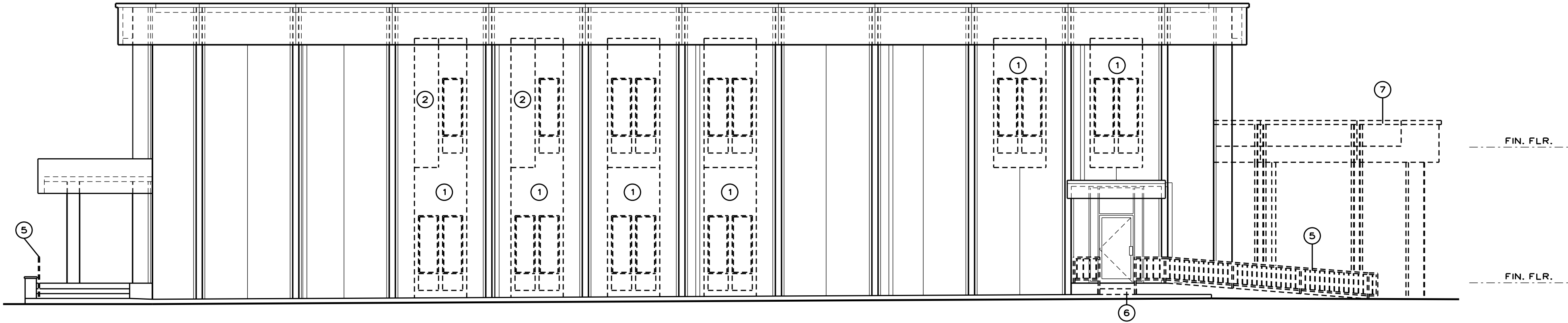
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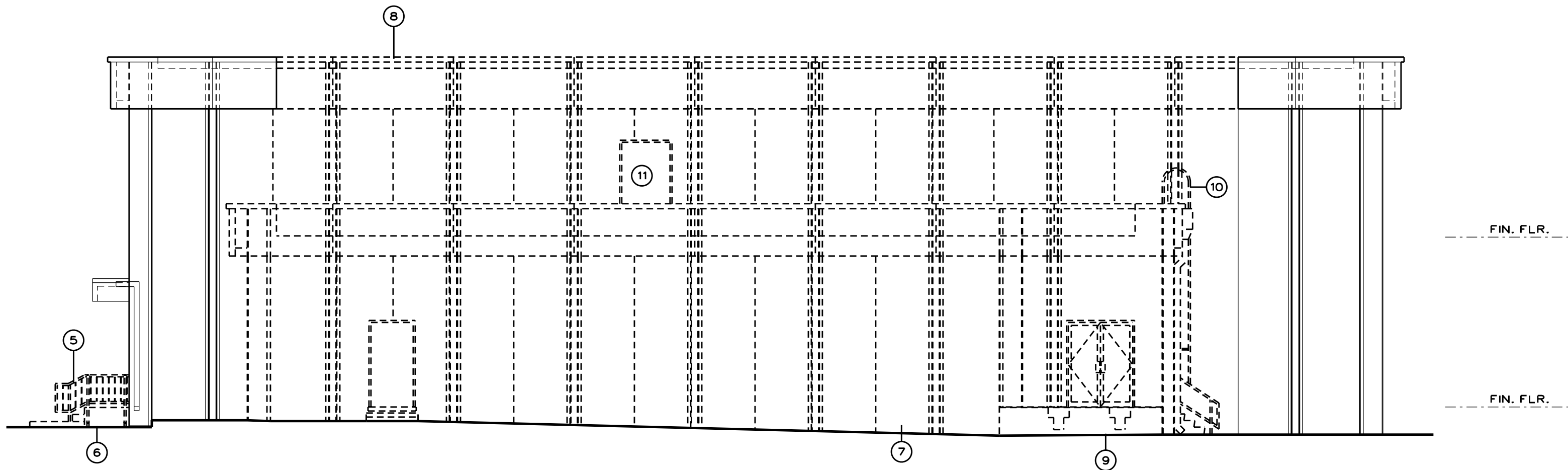




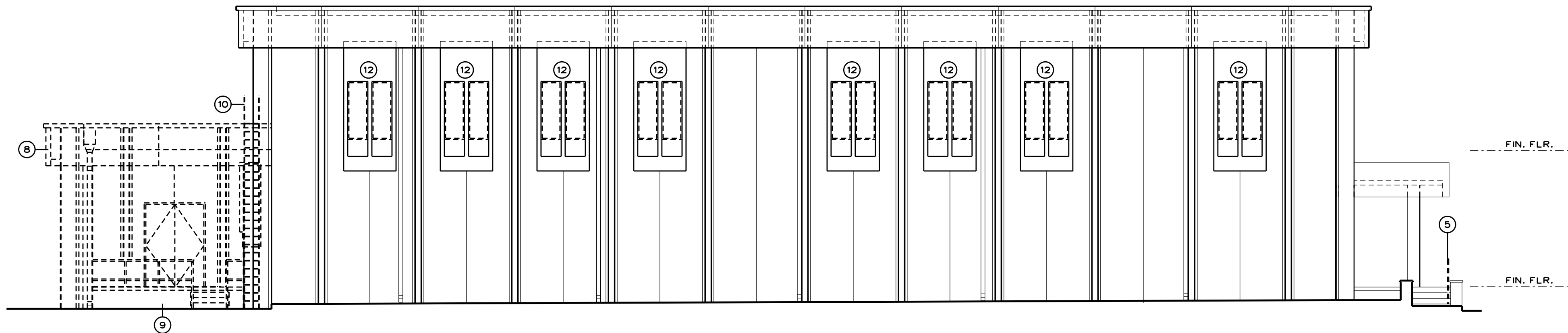
1 FRONT ELEVATION  
SCALE: 1/8" = 1'-0"



2 RIGHT SIDE ELEVATION  
SCALE: 1/8" = 1'-0"



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



4 LEFT SIDE ELEVATION  
SCALE: 1/8" = 1'-0"

- NOTES:
- 1. REMOVE EXISTING PRECAST CONCRETE PANEL, GLASS AND FRAME.
  - 2. CUT AND REMOVE EXISTING PRECAST CONCRETE AS REQUIRED.
  - 3. REMOVE EXISTING STOREFRONT GLASS, FRAMES AND DOORS.
  - 4. REMOVE EXISTING STOREFRONT GLASS AND FRAMES.
  - 5. REMOVE EXISTING METAL HANDRAILS.
  - 6. REMOVE EXISTING CONCRETE LANDING, STEPS AND RAMP.
  - 7. REMOVE EXISTING PRECAST CONCRETE FASCIA, ROOF WALL PANEL AND ASSOCIATED ITEM.
  - 8. CUT AND REMOVE EXISTING PRECAST CONCRETE FASCIA.
  - 9. REMOVE EXISTING CONCRETE LOADING DOCK, STEPS AND HANDRAIL.
  - 10. REMOVE EXISTING METAL LADDER.
  - 11. REMOVE EXISTING METAL DOOR AND FRAME.
  - 12. REMOVE EXISTING GLASS AND FRAME.

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| Revisions: |  |
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Sheet Title:  
EXTERIOR ELEVATION  
DEMOLITION

Project #: 2229 Date: 4/18/2025

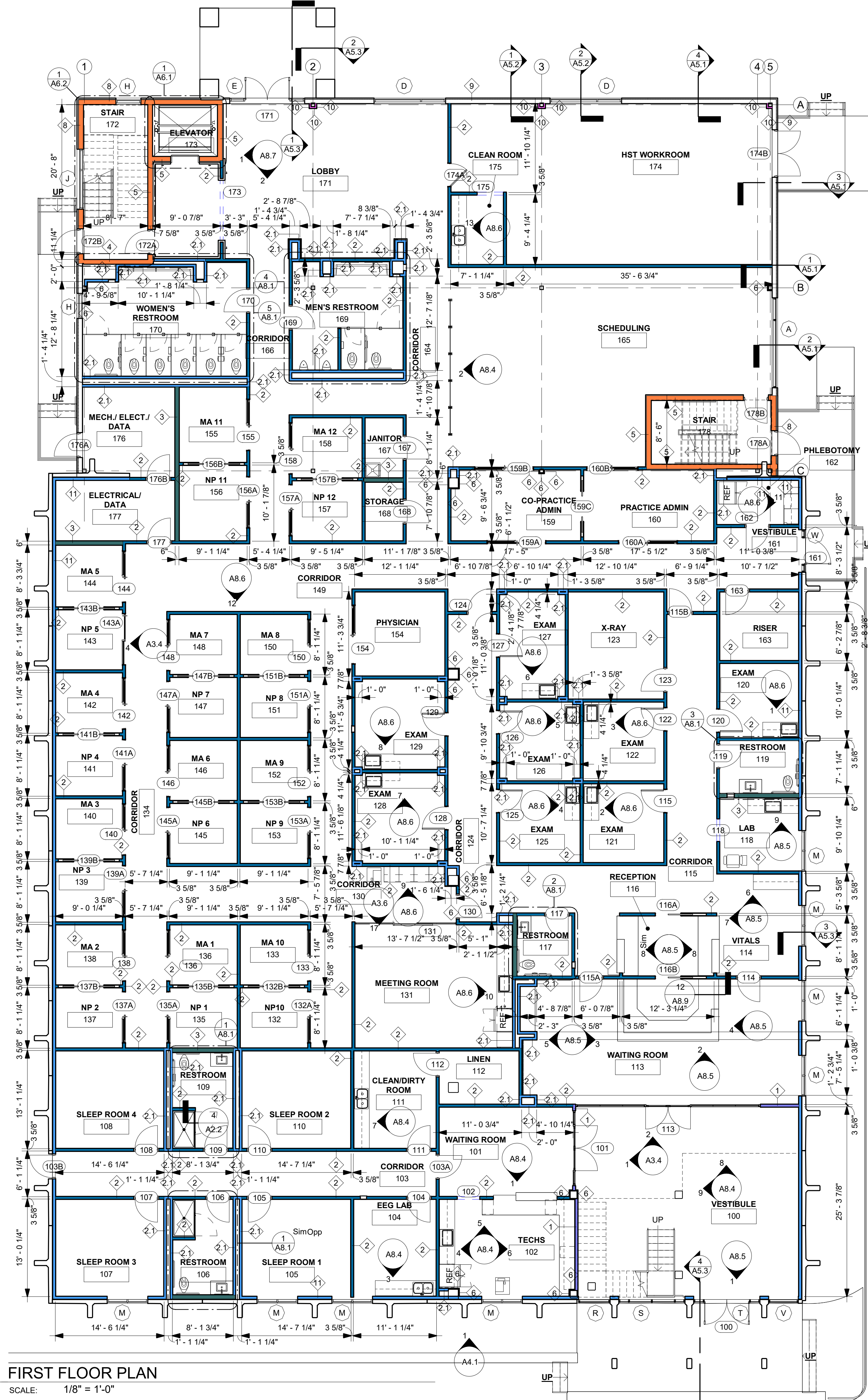
A1.4



1  
A2.1

# FIRST FLOOR PLAN

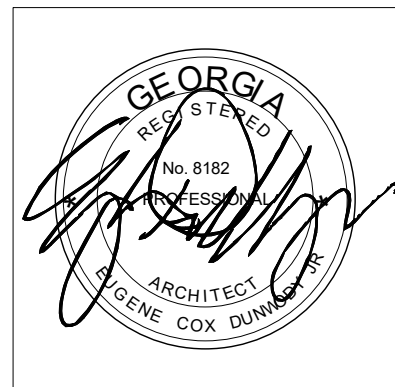
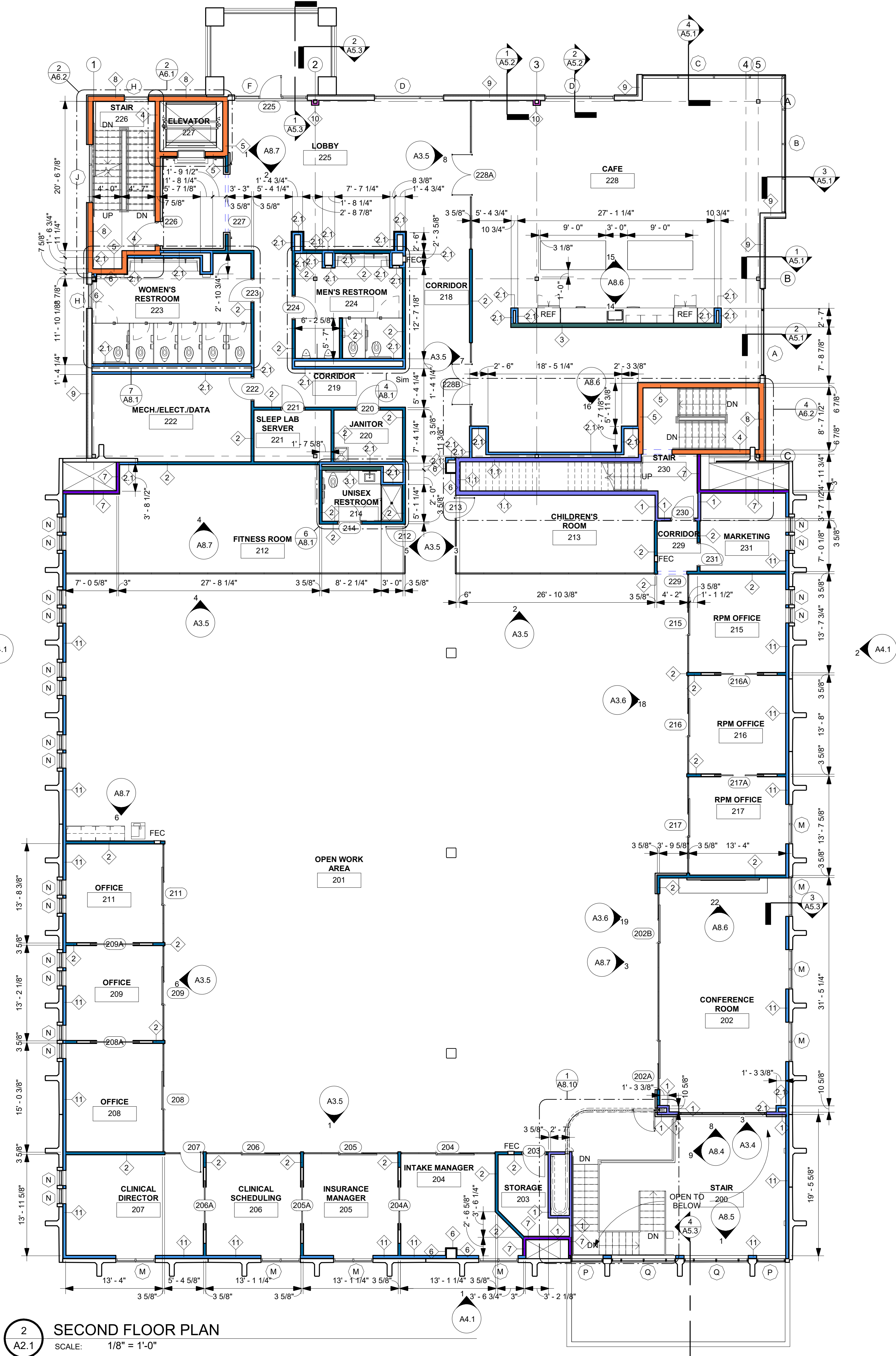
SCALE: 1/8" = 1'-0"



2  
A2.1

# SECOND FLOOR PLAN

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



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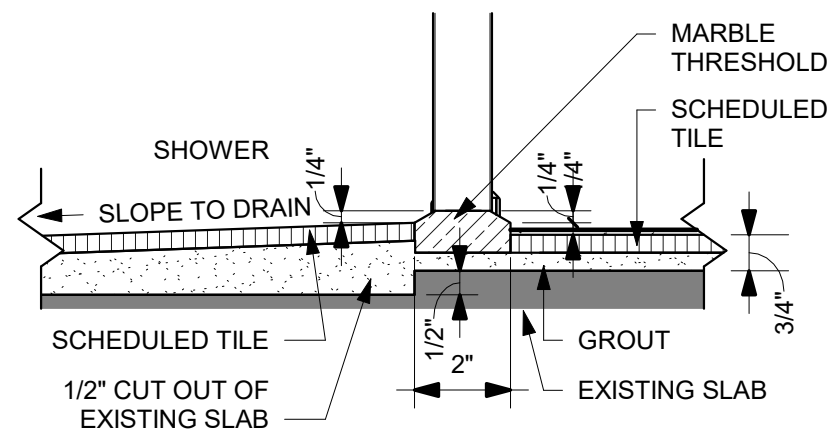
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**FIRST AND SECOND FLOOR PLANS**

Project #: 2229 Date: 4/18/2025

**A2.1**



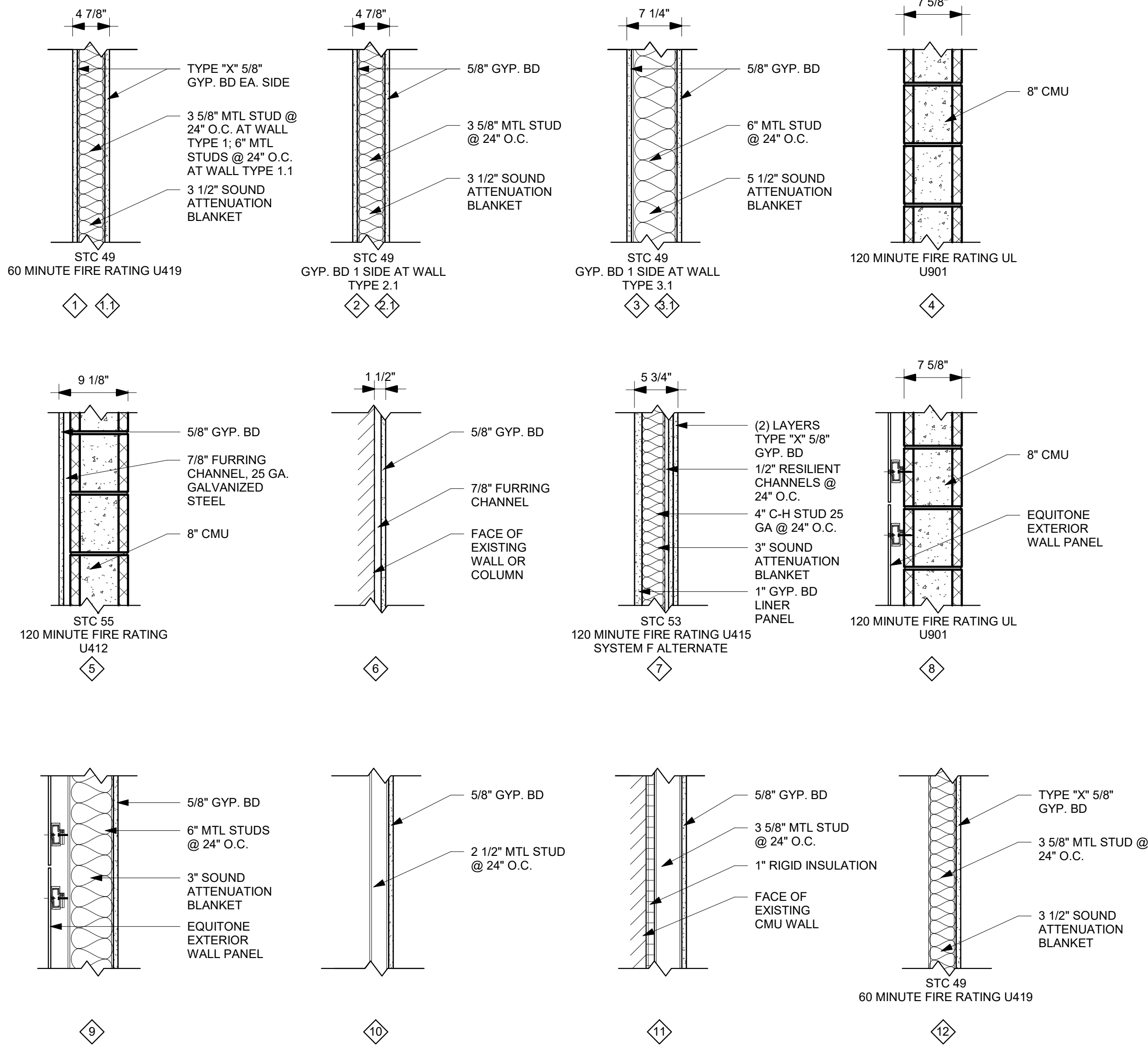
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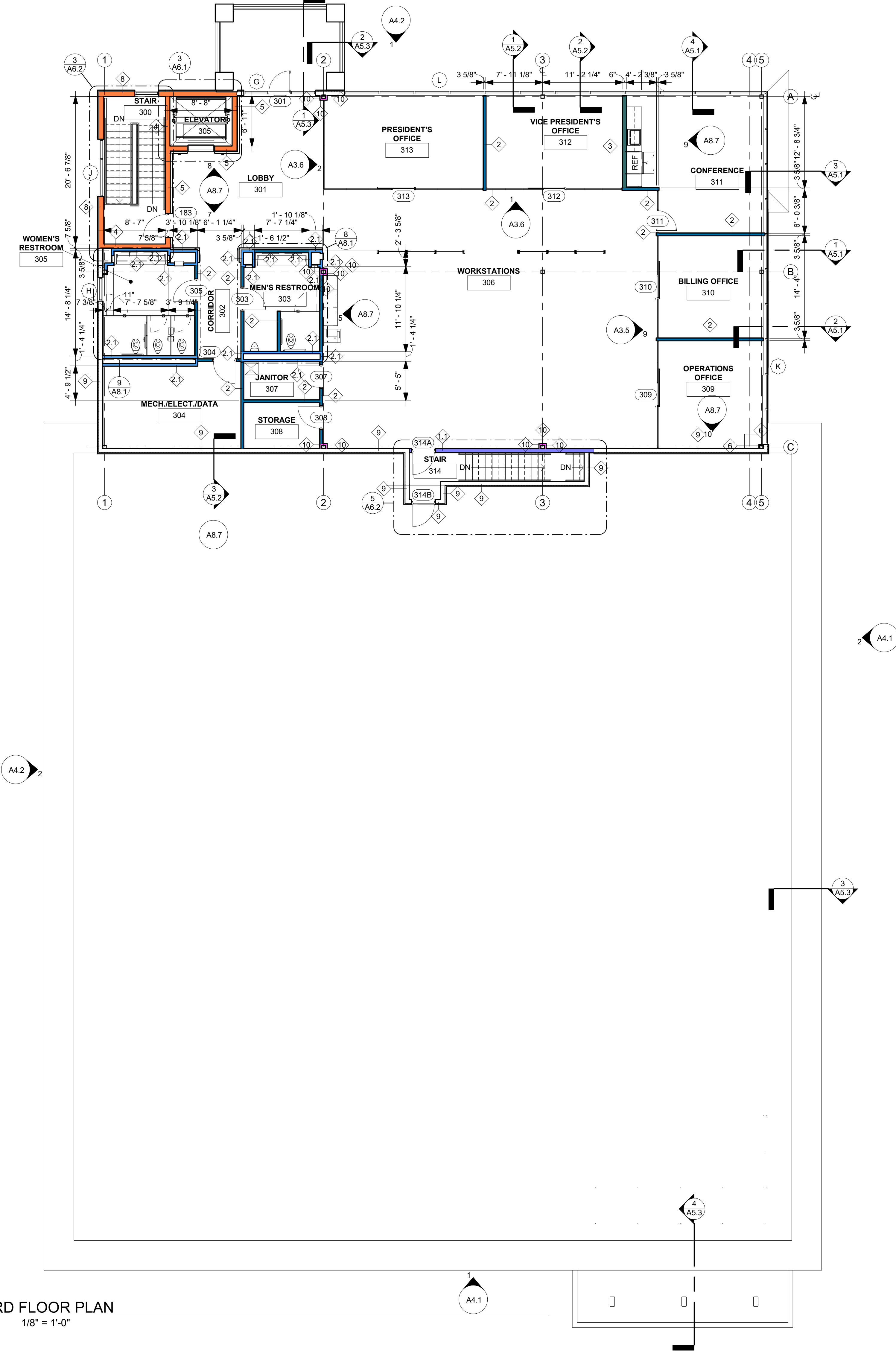
4  
A2.2  
ADA SHOWER TRANSITION  
SCALE: 3" = 1'-0"

- NOTES:
1. EXTEND ALL FIRE RATED WALLS TO UNDERSIDE OF CONCRETE STRUCTURE & SEAL WITH FIRE CAULK
  2. EXTEND ALL NON FIRE RATED WALLS TO UNDERSIDE OF CONCRETE STRUCTURE AND SEAL WITH ACOUSTICAL SEALANT

2  
A2.2  
WALL TYPES  
SCALE: 1" = 1'-0"



1  
A2.2  
THIRD FLOOR PLAN  
SCALE: 1/8" = 1'-0"



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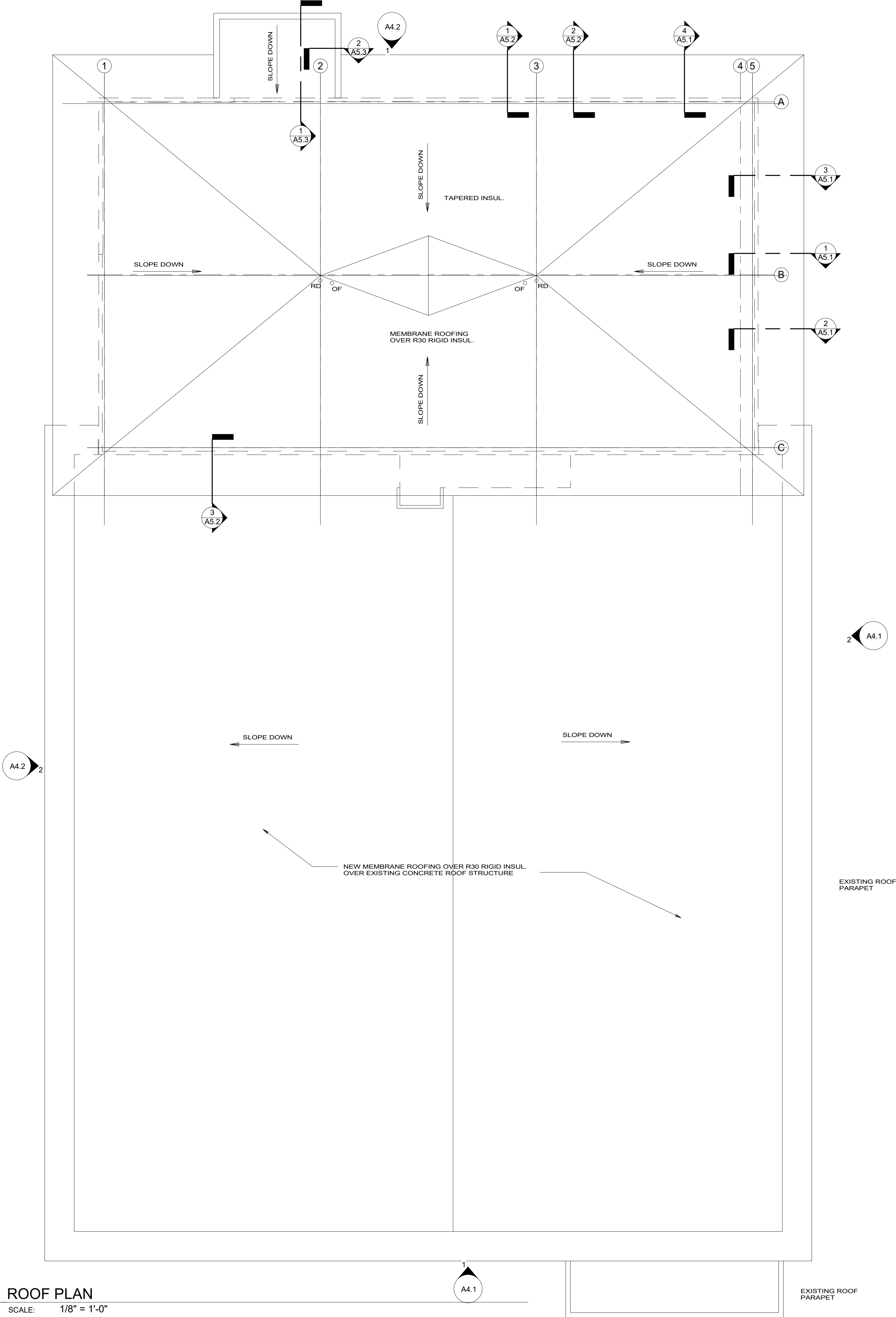
Sheet Title:  
**THIRD FLOOR  
PLAN**

Project #: 2229      Date: 4/18/2025

**A2.2**

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1  
A2.3 ROOF PLAN  
SCALE: 1/8" = 1'-0"



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Sheet Title:  
ROOF PLAN

Project #: 2229    Date: 4/18/2025

**A2.3**

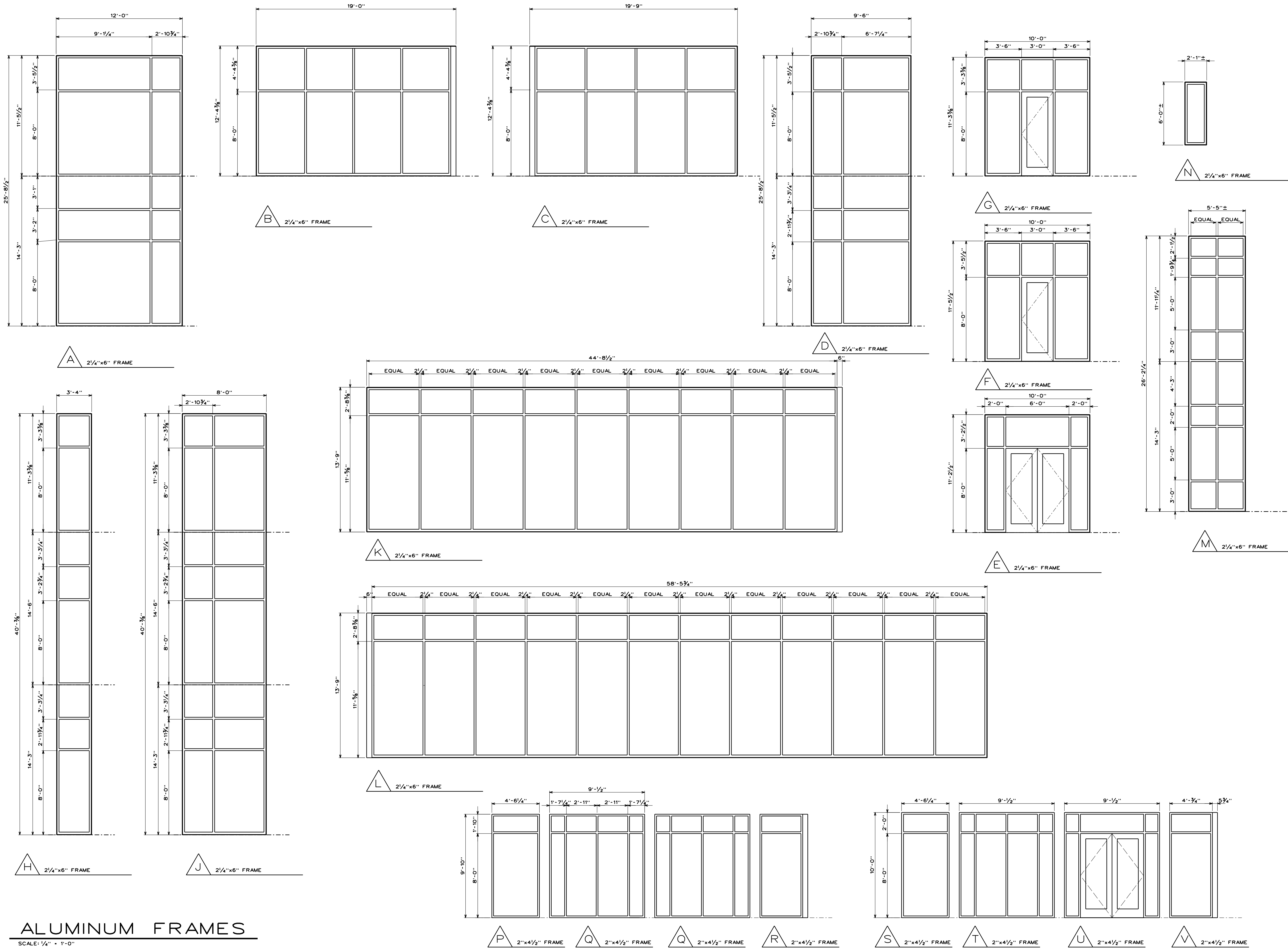


| FINISH SCHEDULE     |          |          |          |          |        |                        |        |                 |        |          |                                      |  |  |
|---------------------|----------|----------|----------|----------|--------|------------------------|--------|-----------------|--------|----------|--------------------------------------|--|--|
| ROOM NAME           | ROOM NO. | FLOOR    |          | BASE     |        | WALL                   |        | CEILING         |        | ROOM NO. | COMMENTS                             |  |  |
| MATERIAL            | FINISH   | MATERIAL | FINISH   | MATERIAL | FINISH | MATERIAL               | FINISH | MATERIAL        | FINISH |          |                                      |  |  |
| VESTIBULE           | 100      | TILE     |          | WOOD     | PAINT  | GYP. BD/ WOOD PANELING | PAINT* | EXPOSED/WOOD    | PAINT* | 100      | *DRYFALL EXPOSED CEILING STRUCTURE   |  |  |
| WAITING ROOM        | 101      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | EXPOSED         | PAINT* | 101      | *DRYFALL EXPOSED CEILING STRUCTURE   |  |  |
| TECHS               | 102      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 102      |                                      |  |  |
| CORRIDOR            | 103      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 103      |                                      |  |  |
| EEG LAB             | 104      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 104      |                                      |  |  |
| SLEEP ROOM 1        | 105      | CARPET   |          | WOOD     |        | GYP. BD                | PAINT  | GYP. BD         | PAINT  | 105      |                                      |  |  |
| RESTROOM            | 106      |          |          | TILE     |        | GYP. BD/ TILE          | PAINT  | GYP. BD         | PAINT  | 106      |                                      |  |  |
| SLEEP ROOM 3        | 107      | CARPET   |          | WOOD     |        | GYP. BD                | PAINT  | GYP. BD         | PAINT  | 107      |                                      |  |  |
| SLEEP ROOM 4        | 108      | CARPET   |          | WOOD     |        | GYP. BD                | PAINT  | GYP. BD         | PAINT  | 108      |                                      |  |  |
| RESTROOM            | 109      |          |          | TILE     |        | GYP. BD/ TILE          | PAINT  | GYP. BD         | PAINT  | 109      |                                      |  |  |
| SLEEP ROOM 2        | 110      | CARPET   |          | WOOD     |        | GYP. BD                | PAINT  | GYP. BD         | PAINT  | 110      |                                      |  |  |
| CLEANDIRTY ROOM     | 111      | LVT      |          | RUBBER   |        | GYP. BD                | PAINT  | ACT             |        | 111      |                                      |  |  |
| LINEN               | 112      | LVT      |          | RUBBER   |        | GYP. BD                | PAINT  | ACT             |        | 112      |                                      |  |  |
| WAITING ROOM        | 113      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 113      | *PAINT GYP. BD ONLY                  |  |  |
| VITALS              | 114      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 114      | *PAINT GYP. BD ONLY                  |  |  |
| CORRIDOR            | 115      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 115      | *PAINT GYP. BD ONLY                  |  |  |
| RECEPTION           | 116      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 116      | *PAINT GYP. BD ONLY                  |  |  |
| RESTROOM            | 117      | TILE     |          | TILE     |        | GYP. BD/ TILE          | PAINT  | GYP. BD         | PAINT  | 117      |                                      |  |  |
| LAB                 | 118      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 118      |                                      |  |  |
| RESTROOM            | 119      | TILE     |          | TILE     |        | GYP. BD/ TILE          | PAINT  | GYP. BD         | PAINT  | 119      |                                      |  |  |
| EXAM                | 120      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 120      |                                      |  |  |
| EXAM                | 121      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 121      |                                      |  |  |
| EXAM                | 122      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 122      |                                      |  |  |
| X-RAY               | 123      | LVT      |          | WOOD     | PAINT  | LEAD-LINED GYP. BD     | PAINT  | ACT             |        | 123      |                                      |  |  |
| CORRIDOR            | 124      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 124      | *PAINT GYP. BD ONLY                  |  |  |
| EXAM                | 125      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 125      |                                      |  |  |
| EXAM                | 126      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 126      | *PAINT GYP. BD ONLY                  |  |  |
| EXAM                | 127      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 127      | *PAINT GYP. BD ONLY                  |  |  |
| EXAM                | 128      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 128      | *PAINT GYP. BD ONLY                  |  |  |
| EXAM                | 129      | LVT      |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 129      | *PAINT GYP. BD ONLY                  |  |  |
| CORRIDOR            | 130      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 130      | *PAINT GYP. BD ONLY                  |  |  |
| MEETING ROOM        | 131      | CARPET   |          | WOOD     | PAINT  | GYP. BD/ TILE          | PAINT  | ACT/GYP. BD     | PAINT* | 131      | *PAINT GYP. BD ONLY                  |  |  |
| NP10                | 132      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 132      |                                      |  |  |
| MA 10               | 133      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 133      |                                      |  |  |
| CORRIDOR            | 134      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 134      | *PAINT GYP. BD ONLY                  |  |  |
| NP 1                | 135      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 135      |                                      |  |  |
| MA 1                | 136      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 136      |                                      |  |  |
| NP 2                | 137      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 137      |                                      |  |  |
| MA 2                | 138      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 138      |                                      |  |  |
| NP 3                | 139      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 139      |                                      |  |  |
| MA 3                | 140      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 140      |                                      |  |  |
| NP 4                | 141      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 141      |                                      |  |  |
| MA 4                | 142      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 142      |                                      |  |  |
| NP 5                | 143      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 143      |                                      |  |  |
| MA 5                | 144      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 144      |                                      |  |  |
| NP 6                | 145      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 145      |                                      |  |  |
| MA 6                | 146      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 146      |                                      |  |  |
| NP 7                | 147      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 147      |                                      |  |  |
| MA 7                | 148      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 148      |                                      |  |  |
| CORRIDOR            | 149      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/GYP. BD     | PAINT* | 149      | *PAINT GYP. BD ONLY                  |  |  |
| MA 8                | 150      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 150      |                                      |  |  |
| NP 8                | 151      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 151      |                                      |  |  |
| MA 9                | 152      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 152      |                                      |  |  |
| NP 9                | 153      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 153      |                                      |  |  |
| PHYSICIAN           | 154      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 154      |                                      |  |  |
| MA 11               | 155      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 155      |                                      |  |  |
| NP 11               | 156      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 156      |                                      |  |  |
| NP 12               | 157      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 157      |                                      |  |  |
| MA 12               | 158      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 158      |                                      |  |  |
| CO-PRACTICE ADMIN   | 159      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 159      |                                      |  |  |
| PRACTICE ADMIN      | 160      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 160      |                                      |  |  |
| VESTIBULE           | 161      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | GYP. BD         | PAINT  | 161      |                                      |  |  |
| PHLEBOTOMY          | 162      | LVT      |          | RUBBER   |        | GYP. BD                | PAINT  | ACT             |        | 162      |                                      |  |  |
| RISER               | 163      | CONCRETE | SEALED   | RUBBER   |        | GYP. BD                | PAINT  | EXPOSED         | PAINT  | 163      | DRYFALL EXPOSED CEILING STRUCTURE    |  |  |
| CORRIDOR            | 164      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | EXPOSED/GYP. BD | PAINT  | 164      | DRYFALL EXPOSED CEILING STRUCTURE    |  |  |
| SCHEDULING          | 165      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT/EXPOSED     | PAINT* | 165      | *DRYFALL EXPOSED CEILING STRUCTURE   |  |  |
| CORRIDOR            | 166      | CARPET   |          | WOOD     | PAINT  | GYP. BD                | PAINT  | ACT             |        | 166      |                                      |  |  |
| JANITOR             | 167      | CONCRETE | SEALED   | RUBBER   |        | GYP. BD/ TILE          | PAINT  | ACT             |        | 167      | WALL TILE 4'-0" HIGH BEHIND MOP SINK |  |  |
| STORAGE             | 168      | LVT      |          | RUBBER   |        | GYP. BD                | PAINT  | ACT             |        | 168      |                                      |  |  |
| MEN'S RESTROOM      | 169      |          |          | TILE     |        | GYP. BD/ TILE          | PAINT  | GYP. BD         | PAINT  | 169      |                                      |  |  |
| WOMEN'S RESTROOM    | 170      |          |          | TILE     |        | GYP. BD/ TILE          | PAINT  | GYP. BD         | PAINT  | 170      |                                      |  |  |
| LOBBY               | 171      | TILE     |          | WOOD     | PAINT  | GYP. BD                | PAINT  | EXPOSED         | PAINT* | 171      | *DRYFALL EXPOSED CEILING STRUCTURE   |  |  |
| STAIR               | 172      | CONCRETE | POLISHED | RUBBER   |        | CMU                    | PAINT  | EXPOSED         | PAINT* | 172      | *DRYFALL EXPOSED CEILING STRUCTURE   |  |  |
| ELEVATOR            | 173      |          |          |          |        |                        |        |                 |        | 173      |                                      |  |  |
| HST WORKROOM        | 174      | LVT      |          | RUBBER   |        | GYP. BD                | PAINT  | ACT/EXPOSED     | PAINT* | 174      | *DRYFALL EXPOSED CEILING STRUCTURE   |  |  |
| CLEAN ROOM          | 175      | LVT      |          | RUBBER   |        | GYP. BD                | PAINT  | ACT             |        | 175      |                                      |  |  |
| MECH./ ELECT./ DATA | 176      | CONCRETE | SEALED   | RUBBER   | PAINT  | GYP. BD                | PAINT  | EXPOSED         | PAINT  | 176      | DRYFALL EXPOSED CEILING STRUCTURE    |  |  |
| ELECTRICAL/ DATA    | 177      | CONCRETE | SEALED   | RUBBER   | PAINT  | GYP. BD                | PAINT  | EXPOSED         | PAINT* | 177      | DRYFALL EXPOSED CEILING STRUCTURE    |  |  |
| STAIR               | 178      | CONCRETE | POLISHED | RUBBER   |        | CMU                    | PAINT  | ACT/GYP. BD     | PAINT* | 178      | *PAINT GYP. BD ONLY                  |  |  |

| FINISH SCHEDULE     |          |          |        |          |        |                       |        |                 |        |          |                                      |  |  |
|---------------------|----------|----------|--------|----------|--------|-----------------------|--------|-----------------|--------|----------|--------------------------------------|--|--|
| ROOM NAME           | ROOM NO. | FLOOR    |        | BASE     |        | WALL                  |        | CEILING         |        | ROOM NO. | COMMENTS                             |  |  |
| MATERIAL            | FINISH   | MATERIAL | FINISH | MATERIAL | FINISH | MATERIAL              | FINISH | MATERIAL        | FINISH |          |                                      |  |  |
| STAIR               | 200      |          |        |          |        | GYP. BD               | PAINT  | EXPOSED         | PAINT* | 200      | *DRYFALL EXPOSED CEILING STRUCTURE   |  |  |
| OPEN WORK AREA      | 201      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT/EXPOSED     | PAINT* | 201      | *DRYFALL EXPOSED CEILING STRUCTURE   |  |  |
| CONFERENCE ROOM     | 202      | CARPET   |        | WOOD     | PAINT  | GYP. BD/WOOD PANELING | PAINT  | WOOD/GYP. BD    | PAINT* | 202      | *PAINT GYP. BD ONLY                  |  |  |
| STORAGE             | 203      | LVT      |        | RUBBER   |        | GYP. BD               | PAINT  | ACT             |        | 203      |                                      |  |  |
| INTAKE MANAGER      | 204      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 204      |                                      |  |  |
| INSURANCE MANAGER   | 205      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 205      |                                      |  |  |
| CLINICAL SCHEDULING | 206      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 206      |                                      |  |  |
| CLINICAL DIRECTOR   | 207      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 207      |                                      |  |  |
| OFFICE              | 208      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 208      |                                      |  |  |
| OFFICE              | 209      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 209      |                                      |  |  |
| OFFICE              | 211      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 211      |                                      |  |  |
| FITNESS ROOM        | 212      | RUBBER   |        | RUBBER   |        | GYP. BD               | PAINT  | EXPOSED/GYP. BD | PAINT* | 212      | *PAINT GYP. BD ONLY                  |  |  |
| CHILDREN'S ROOM     | 213      | TILE     |        | TILE     |        | GYP. BD/ TILE         | PAINT  | GYP. BD         | PAINT  | 213      |                                      |  |  |
| UNISEX RESTROOM     | 214      | TILE     |        | TILE     |        | GYP. BD/ TILE         | PAINT  | GYP. BD         | PAINT  | 214      |                                      |  |  |
| RPM OFFICE          | 215      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 215      |                                      |  |  |
| RPM OFFICE          | 216      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 216      |                                      |  |  |
| RPM OFFICE          | 217      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 217      |                                      |  |  |
| CORRIDOR            | 218      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 218      |                                      |  |  |
| CORRIDOR            | 219      | CARPET   |        | WOOD     | PAINT  | GYP. BD               | PAINT  | ACT             |        | 219      |                                      |  |  |
| JANITOR             | 220      | CONCRETE | SEALED | RUBBER   |        | GYP. BD/ TILE         | PAINT  | ACT             |        | 220      | WALL TILE 4'-0" HIGH BEHIND MOP SINK |  |  |
| SLEEP LAB SERVER    | 221      | LVT      | SEALED | RUBBER   |        | GYP. BD               | PAINT  | ACT             |        | 221      |                                      |  |  |
| MECH/ELECT./DATA    | 222      | LVT      |        | RUBBER   |        | GYP. BD               | PAINT  | ACT             |        | 222      |                                      |  |  |
| WOMEN'S RESTROOM    | 223      | TILE     |        | TILE     |        | GYP. BD/ TILE         | PAINT  | GYP. BD         | PAINT  | 223      |                                      |  |  |
| MEN'S RESTROOM      | 224      | TILE     |        | TILE     |        | GYP. BD/ TILE         | PAINT  | GYP. BD         | PAINT  | 224      |                                      |  |  |

| DOOR SCHEDULE |         |                |          |            |                              |      |            |                |             |           |         |         |      |           |           |       |          |          |
|---------------|---------|----------------|----------|------------|------------------------------|------|------------|----------------|-------------|-----------|---------|---------|------|-----------|-----------|-------|----------|----------|
| DOOR NO.      | TYPE    | DOOR MATERIAL  | DOOR     |            |                              | SIZE | FRAME TYPE | FRAME MATERIAL | FRAME       |           |         |         | HEAD | JAMB      | SILL      | LABEL | DOOR NO. | Comments |
|               |         |                | DOOR GA. | GLASS TYPE |                              |      |            |                | FRAME WIDTH | FRAME GA. |         |         |      |           |           |       |          |          |
| 100           | C       | ALUMINUM/GLASS |          | TEMPERED   | (2) 3'-0"W x 7'-0"H X 1 3/4" |      | ALUMINUM   |                |             |           |         |         |      |           |           | 100   |          |          |
| 101           | D       | ALUMINUM/GLASS |          | FIRE RATED | (2) 3'-0"W X 9'-0"H x 1 3/4" |      | ALUMINUM   |                |             |           |         |         |      |           | 45 MINUTE | 101   |          |          |
| 102           | OPENING |                |          |            | 3'-0"W X 8'-0"H              |      |            |                |             |           |         |         |      |           |           | 102   |          |          |
| 103A          | B       | WOOD           | 16       |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 103A  |          |          |
| 103B          | A       | H.M.           |          |            | 3'-0"W X 7'-0"H X 1 3/4"     |      | H.M.       |                | 16          |           |         |         |      |           |           | 103B  |          |          |
| 104           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 104   |          |          |
| 105           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 105   |          |          |
| 106           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 106   |          |          |
| 107           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 107   |          |          |
| 108           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 108   |          |          |
| 109           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 109   |          |          |
| 110           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 110   |          |          |
| 111           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 111   |          |          |
| 112           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 112   |          |          |
| 113           | D       |                |          |            | (2) 3'-0"W X 9'-0"H x 1 3/4" |      |            |                |             |           |         |         |      | 45 MINUTE | 113       |       |          |          |
| 114           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 114   |          |          |
| 115           | F       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0"W X 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 2/A3.1    | 3/A3.1  | 4/A3.1  |      |           |           | 115   |          |          |
| 115A          | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 115A  |          |          |
| 115B          | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 115B  |          |          |
| 116A          | B       | WOOD           |          |            | 3'-6" W x 8'-0" H X 1 3/4"   |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 8/A3.2  |         |      |           |           | 116A  |          |          |
| 116B          | B       | WOOD           |          |            | 3'-6" W x 8'-0" H X 1 3/4"   |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 8/A3.2  |         |      |           |           | 116B  |          |          |
| 117           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 117   |          |          |
| 118           | OPENING |                |          |            | 3'-0"W X 8'-0"H              |      |            |                |             |           |         |         |      |           |           | 118   |          |          |
| 119           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 119   |          |          |
| 120           | F       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0"W X 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 2/A3.1    | 3/A3.1  | 4/A3.1  |      |           |           | 120   |          |          |
| 122           | F       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0"W X 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 2/A3.1    | 3/A3.1  | 4/A3.1  |      |           |           | 122   |          |          |
| 123           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 123   |          |          |
| 124           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 124   |          |          |
| 125           | F       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0"W X 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 2/A3.1    | 3/A3.1  | 4/A3.1  |      |           |           | 125   |          |          |
| 126           | F       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0"W X 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 2/A3.1    | 3/A3.1  | 4/A3.1  |      |           |           | 126   |          |          |
| 127           | F       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0"W X 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 2/A3.1    | 3/A3.1  | 4/A3.1  |      |           |           | 127   |          |          |
| 128           | F       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0"W X 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 2/A3.1    | 3/A3.1  | 4/A3.1  |      |           |           | 128   |          |          |
| 129           | F       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0"W X 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 2/A3.1    | 3/A3.1  | 4/A3.1  |      |           |           | 129   |          |          |
| 130           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 130   |          |          |
| 131           | I       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0"W X 8'-0"H              |      | ALUMINUM   |                |             |           |         |         |      |           |           | 131   |          |          |
| 132A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 132A  |          |          |
| 132B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 132B  |          |          |
| 133           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 133   |          |          |
| 135A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 135A  |          |          |
| 135B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 135B  |          |          |
| 136           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 136   |          |          |
| 137A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 137A  |          |          |
| 137B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 137B  |          |          |
| 138           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 138   |          |          |
| 139A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 139A  |          |          |
| 139B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 139B  |          |          |
| 140           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 140   |          |          |
| 141A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 141A  |          |          |
| 141B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 141B  |          |          |
| 142           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 142   |          |          |
| 143A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 143A  |          |          |
| 143B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 143B  |          |          |
| 144           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 144   |          |          |
| 145A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 145A  |          |          |
| 145B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 145B  |          |          |
| 146           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 146   |          |          |
| 147A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 147A  |          |          |
| 147B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 147B  |          |          |
| 148           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 148   |          |          |
| 150           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 150   |          |          |
| 151A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 151A  |          |          |
| 151B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 151B  |          |          |
| 152           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 152   |          |          |
| 153A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 153A  |          |          |
| 153B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 153B  |          |          |
| 154           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-6"W x 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 154   |          |          |
| 155           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 155   |          |          |
| 156A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 156A  |          |          |
| 156B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 156B  |          |          |
| 157A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 157A  |          |          |
| 157B          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 157B  |          |          |
| 158           | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 158   |          |          |
| 159A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-6"W x 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 159A  |          |          |
| 159B          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-6"W x 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 159B  |          |          |
| 159C          | B       | WOOD           |          |            | (2) 2'-0"W x 8'-0"H X 1 3/4" |      | WOOD       | 4 7/8"         |             | 7/A3.2    | 9/A3.2  |         |      |           |           | 159C  |          |          |
| 160A          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-6"W x 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 160A  |          |          |
| 160B          | E       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 8'-0" H            |      | ALUMINUM   |                |             | 13/A3.4   | 14/A3.4 | 13/A3.4 |      |           |           | 160B  |          |          |
| 161           | C       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0" W x 7'-0" H x 1 3/4"   |      | ALUMINUM   |                |             |           |         |         |      |           |           | 161   |          |          |
| 162           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 162   |          |          |
| 163           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 163   |          |          |
| 167           | B       | WOOD           |          |            | 3'-0"W X 7'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 167   |          |          |
| 168           | B       | WOOD           |          |            | 3'-0"W X 7'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 168   |          |          |
| 169           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 169   |          |          |
| 170           | B       | WOOD           |          |            | 3'-0"W X 8'-0"H X 1 3/4"     | 1    | H.M.       | 5 7/8"         | 16          | 3/A3.2    | 4/A3.2  |         |      |           |           | 170   |          |          |
| 171           | C       | ALUMINUM/GLASS |          | TEMPERED   | (2) 3'-0"W x 8'-0"H X 1 3/4" |      | ALUMINUM   |                |             |           |         |         |      |           |           | 171   |          |          |
| 172A          | B       | H.M.           | 16       |            | 3'-0"W X 7'-0"H X 1 3/4"     |      | H.M.       | 8 1/2"         | 16          |           |         |         |      | 45 MINUTE | 172A      |       |          |          |
| 172B          | A       | H.M.           | 16       |            | 3'-0"W X 7'-0"H X 1 3/4"     |      | H.M.       |                | 16          |           |         |         |      | 45 MINUTE | 172B      |       |          |          |
| 173           | OPENING |                |          |            | 8'-0"W X 9'-0"H              |      |            |                |             |           |         |         |      |           |           | 173   |          |          |
| 174A          | F       | ALUMINUM/GLASS |          | TEMPERED   | 3'-0"W X 8'-0"H X 1 3/4"     |      | ALUMINUM   |                |             | 2/A3.1    | 3/A3.1  | 4/A3.1  |      |           |           | 174A  |          |          |
| 174B          | A       | H.M.           | 16       |            | (2) 3'-0"W X 7'-0"H X 1 3/4" |      | H.M.       |                | 16          |           |         |         |      |           |           | 174B  |          |          |
| 175           | OPENING |                |          |            | 3'-6"W X 7'-0"H              |      |            |                |             |           |         |         |      |           |           | 175   |          |          |
| 176A          | A       | H.M.           | 16       |            | 3'-0"W X 7'-0"H X 1 3/4"     |      | H.M.       |                | 16          |           |         |         |      |           |           | 176A  |          |          |
| 176B          | A       | H.M.           | 16       |            | 3'-0"W X 7'-0"H X 1 3/4"     |      | H.M.       | 5 7/8"         | 16          | 1/A3.2    | 2/A3.2  |         |      |           |           | 176B  |          |          |
| 177           | A       | H.M.           | 16       |            | 3'-0"W X 7'-0"H X 1 3/4"     |      | H.M.       | 5 7/8"         | 16          | 1/A3.2    | 2/A3.2  |         |      |           |           | 177   |          |          |





# ALUMINUM FRAMES

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

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Sheet Title:  
STOREFRONT  
ELEVATIONS

Project #: 2229      Date: 4/18/2025

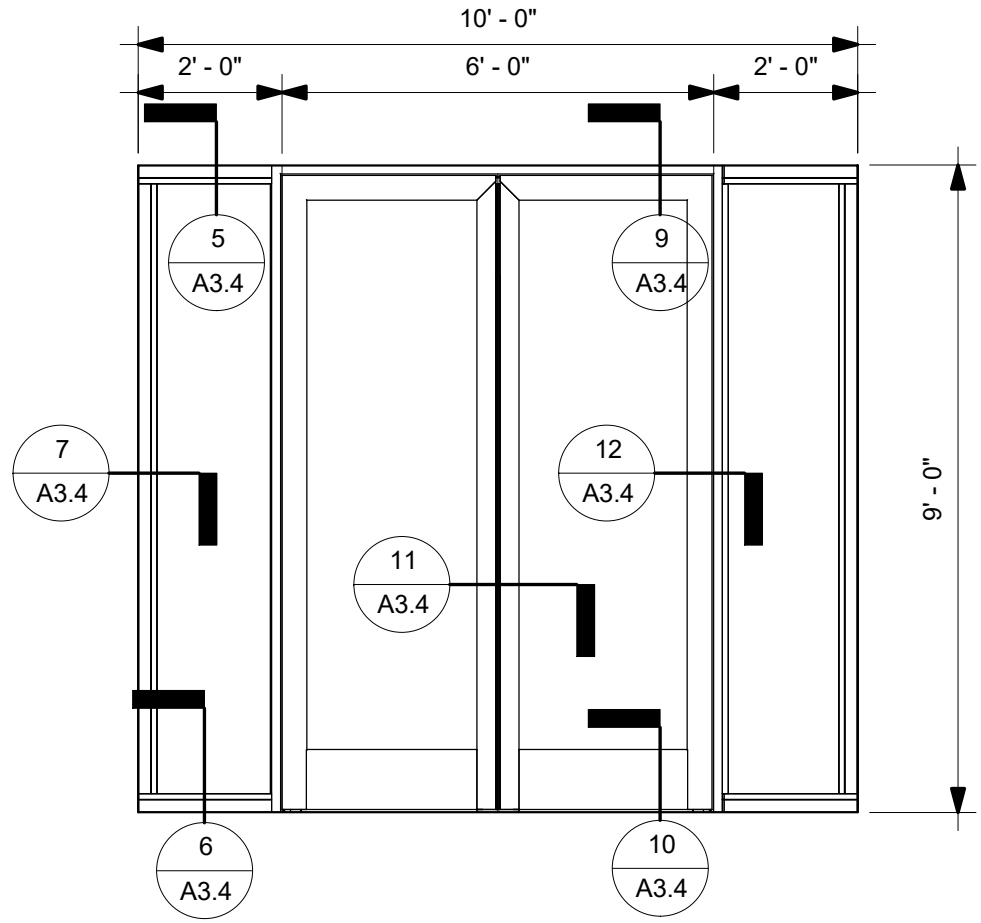
**A3.3**

Mason  
300 Mulberry Street, Suite 604  
Macon, Georgia 31201  
T 478.742.5321  
F 478.743.0863  
Web:  
www.DunwodyBeeland.com

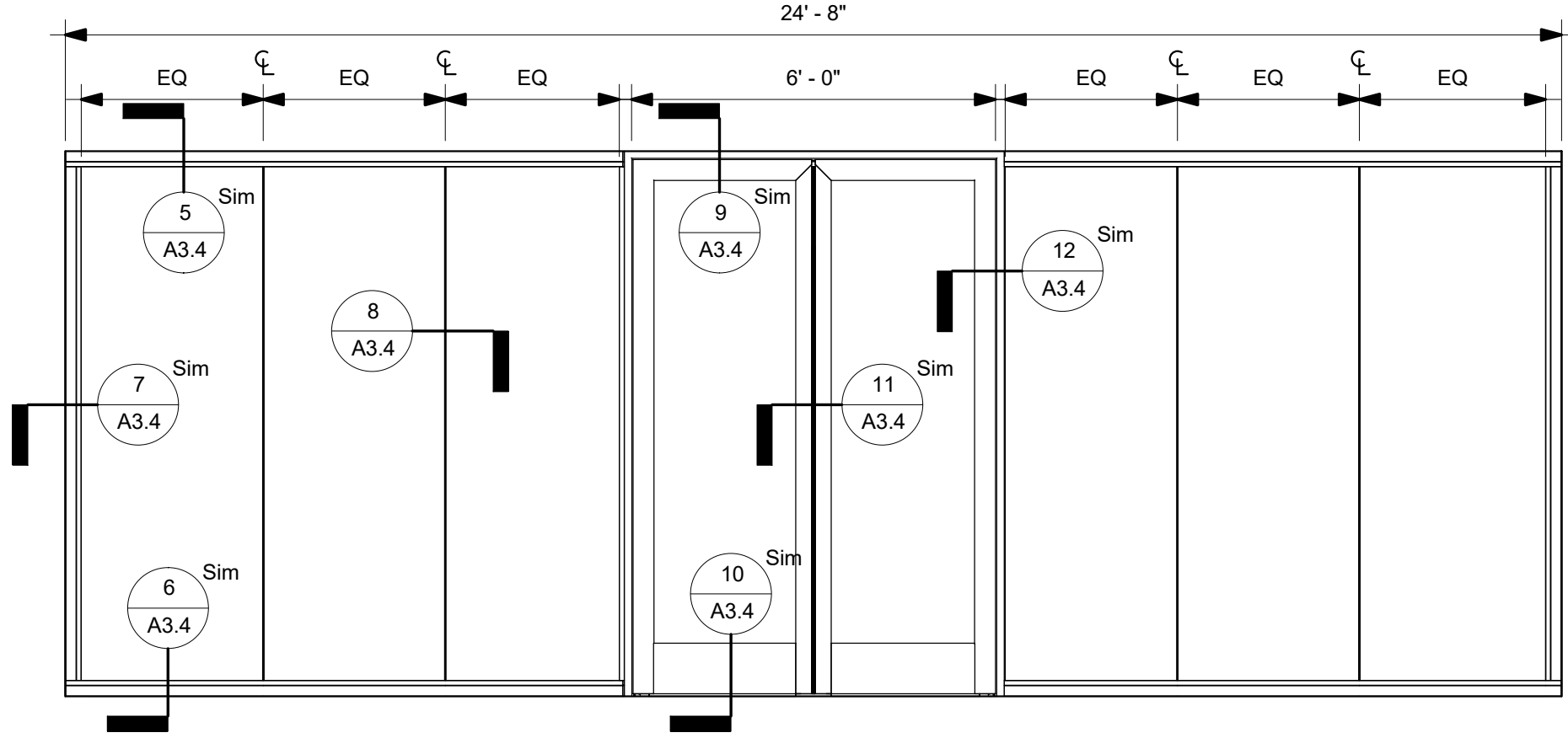
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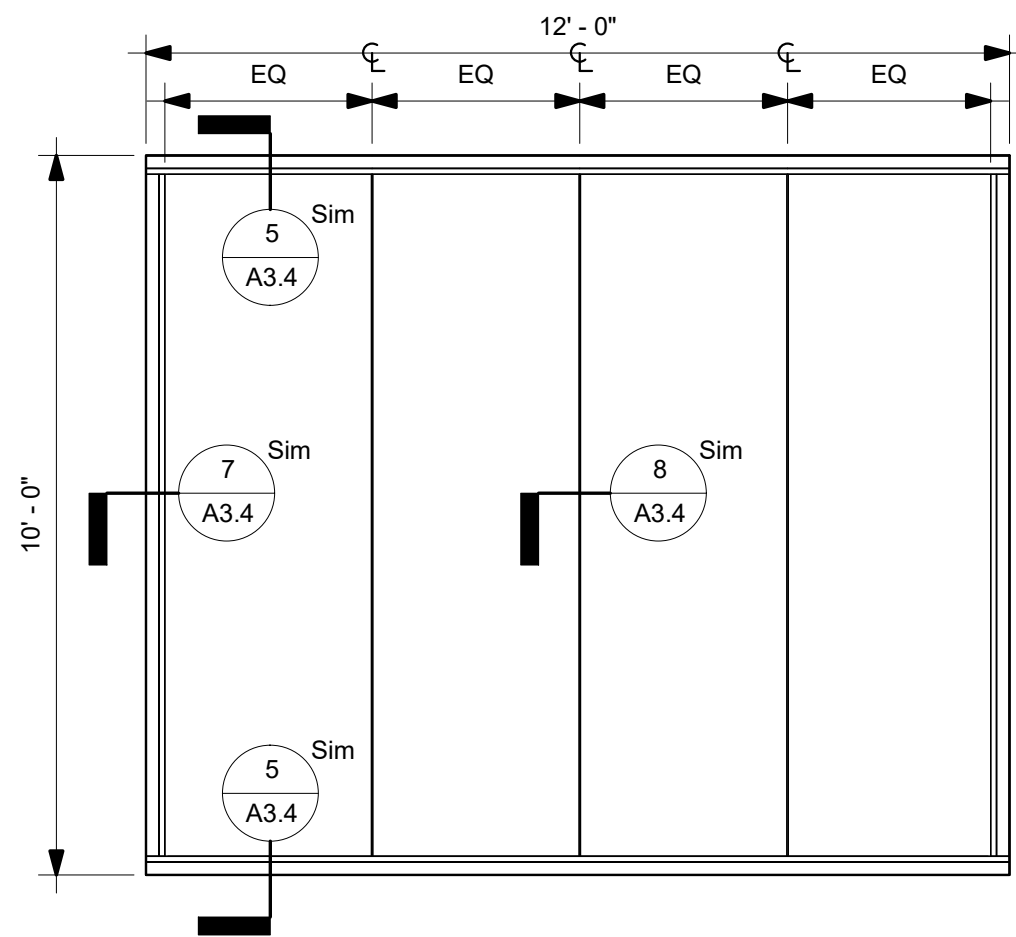
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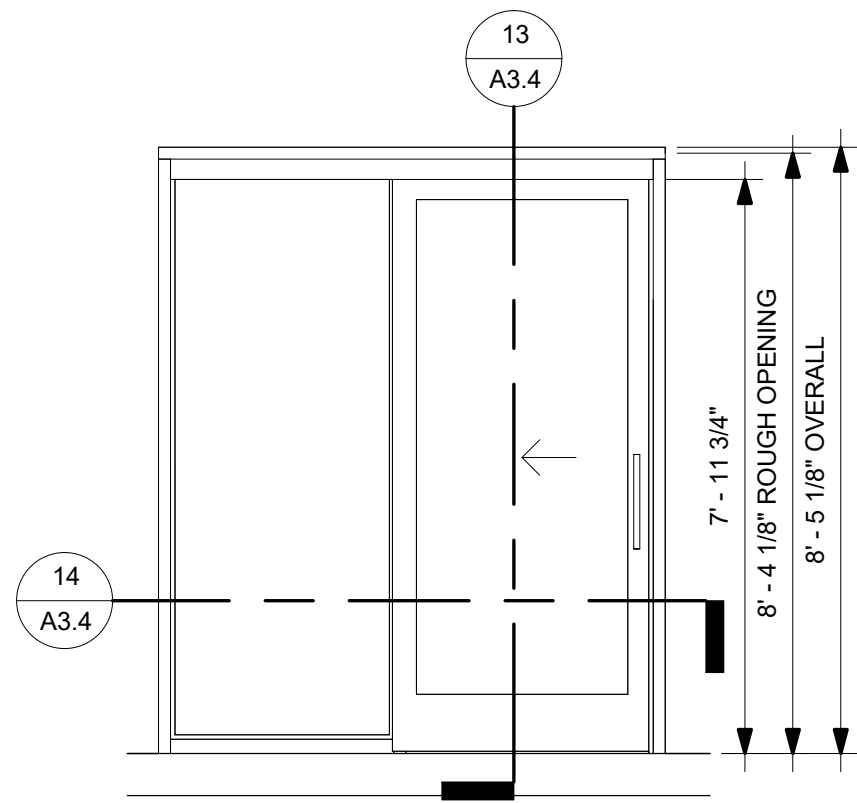
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A3.4 SCALE: 3/8" = 1'-0"



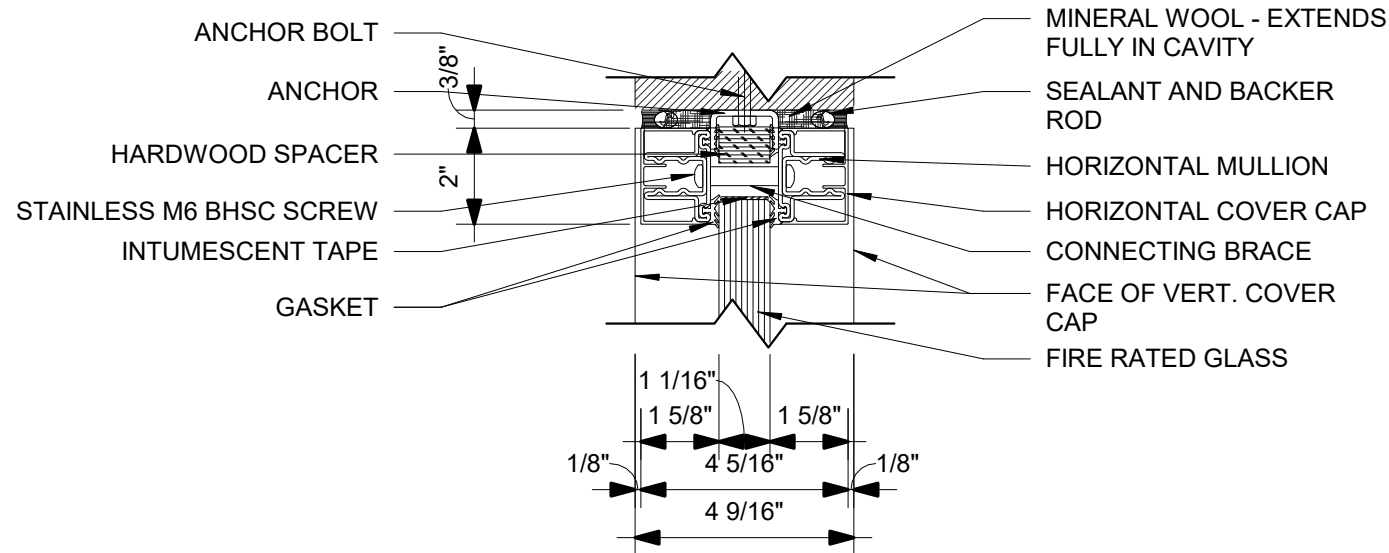
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A3.4 SCALE: 3/8" = 1'-0"



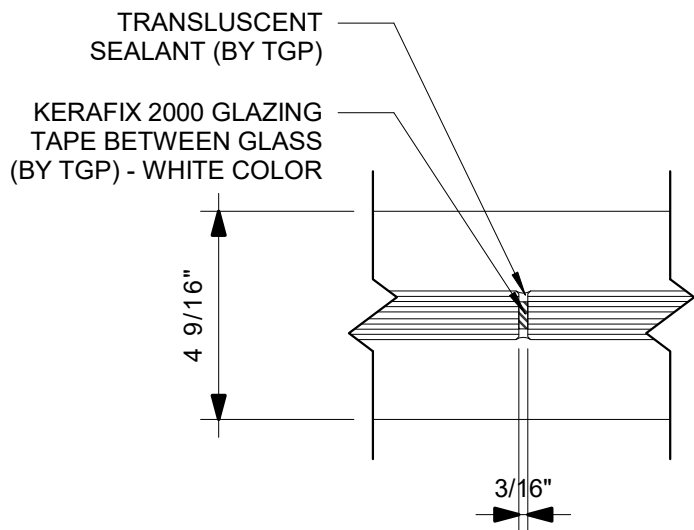
3 ELEVATION  
A3.4 SCALE: 3/8" = 1'-0"



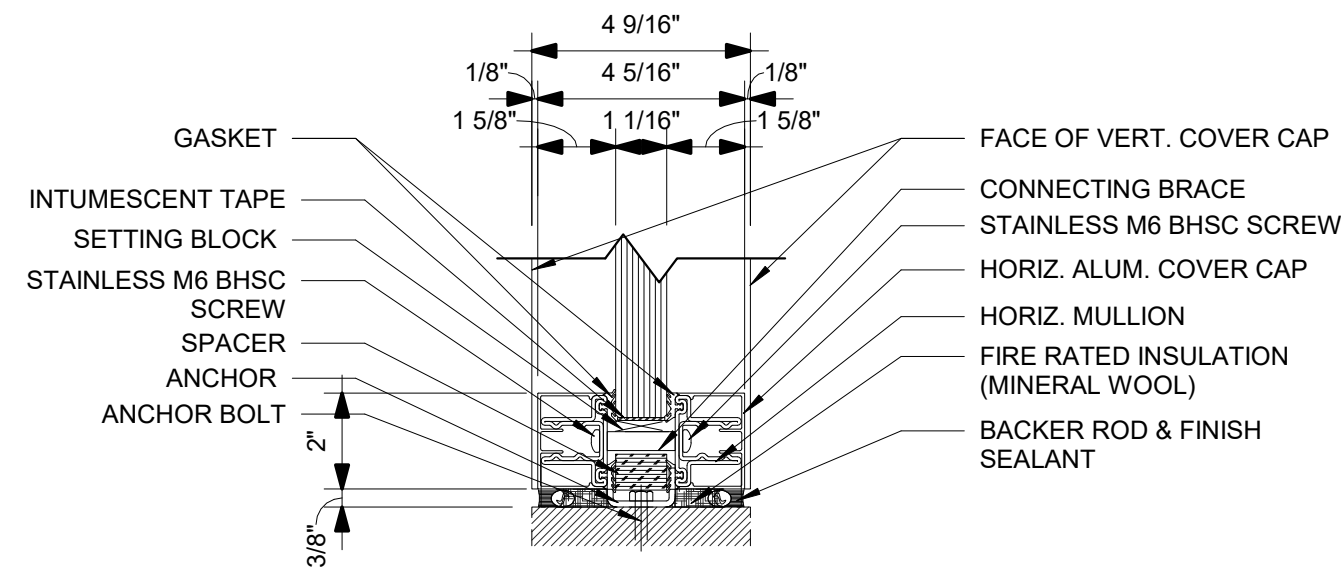
4 ADSYSTEMS INETSLIDE SLIDING DOOR SYSTEM  
A3.4 SCALE: 3/8" = 1'-0"



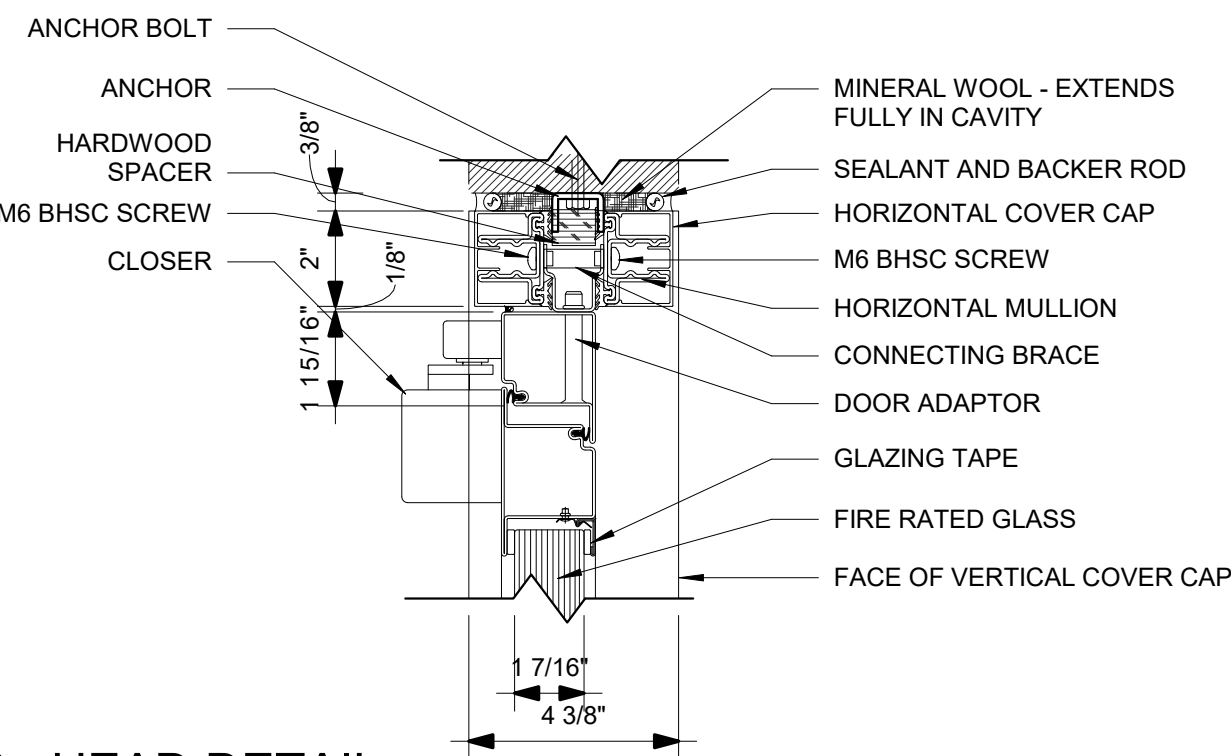
5 HEAD DETAIL  
A3.4 SCALE: 3" = 1'-0"



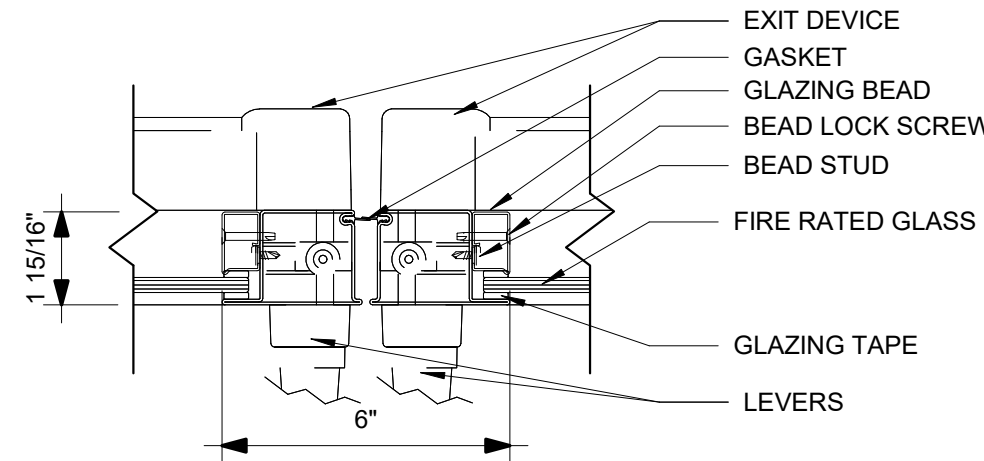
8 BUTT GLAZING DETAIL  
A3.4 SCALE: 3" = 1'-0"



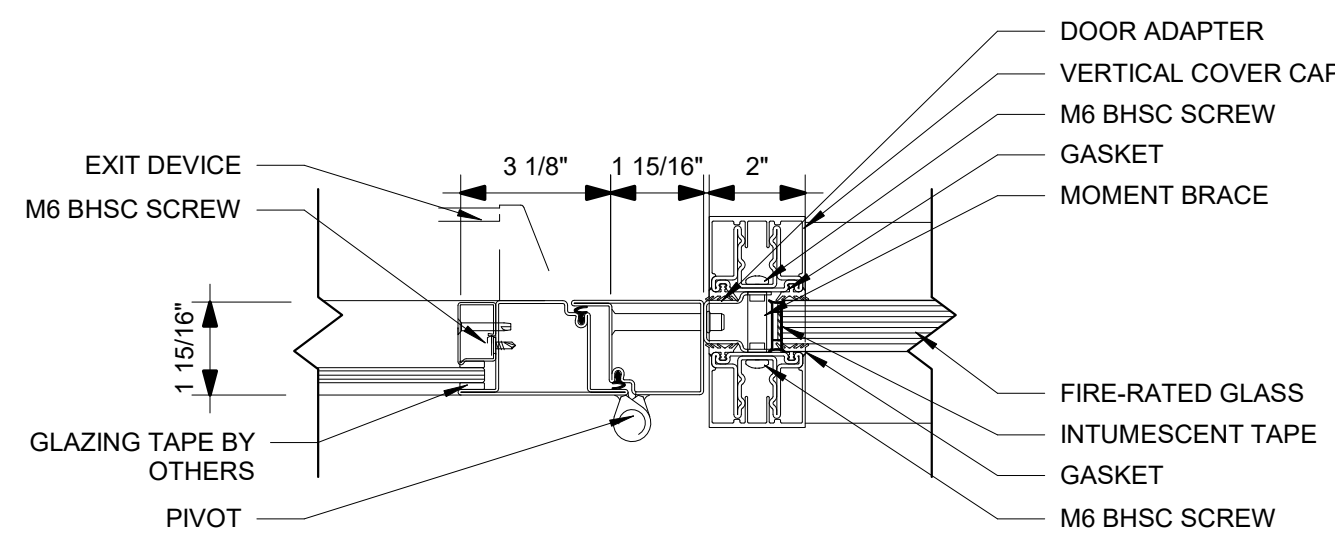
6 SILL DETAIL  
A3.4 SCALE: 3" = 1'-0"



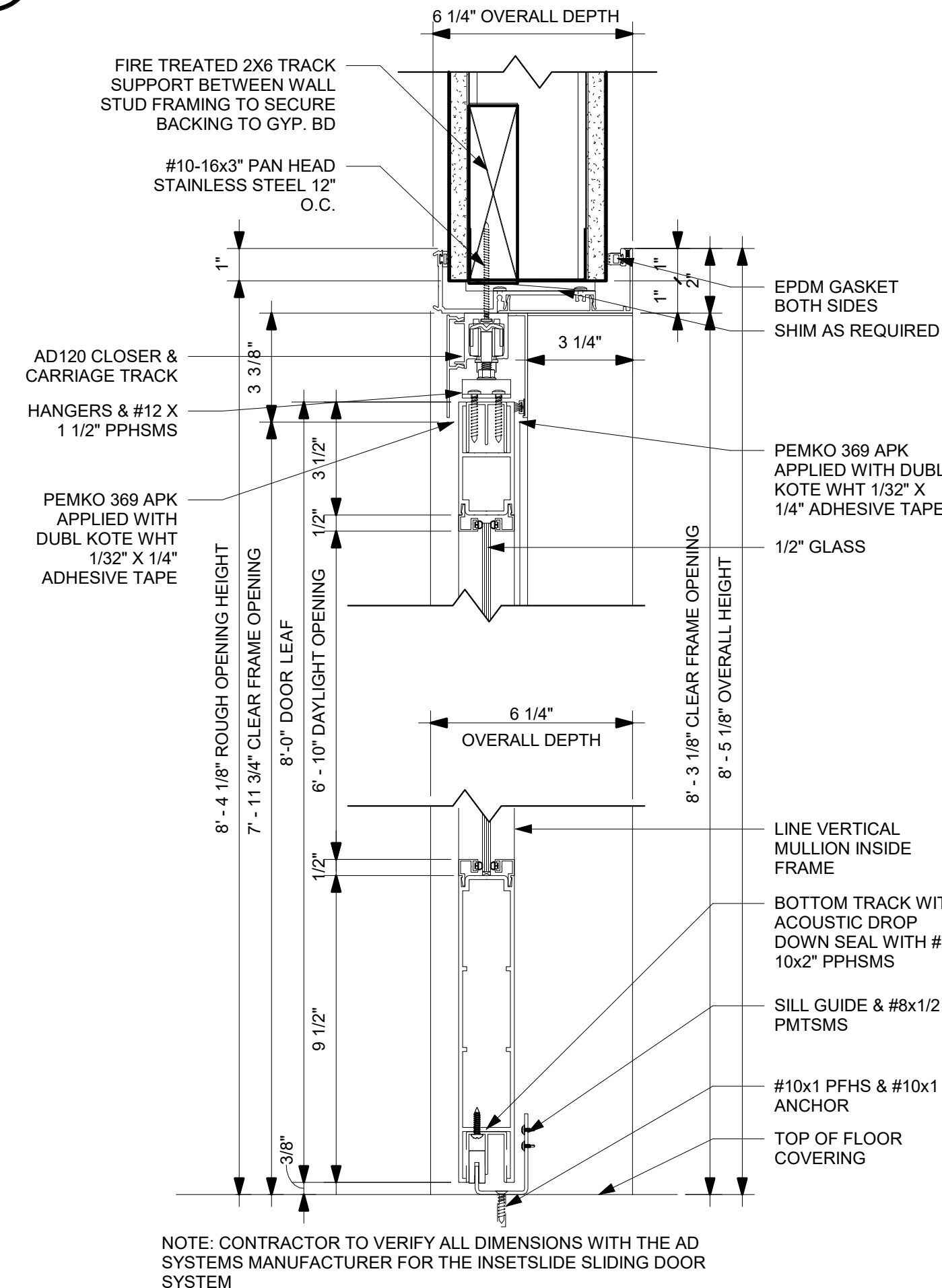
9 HEAD DETAIL  
A3.4 SCALE: 3" = 1'-0"



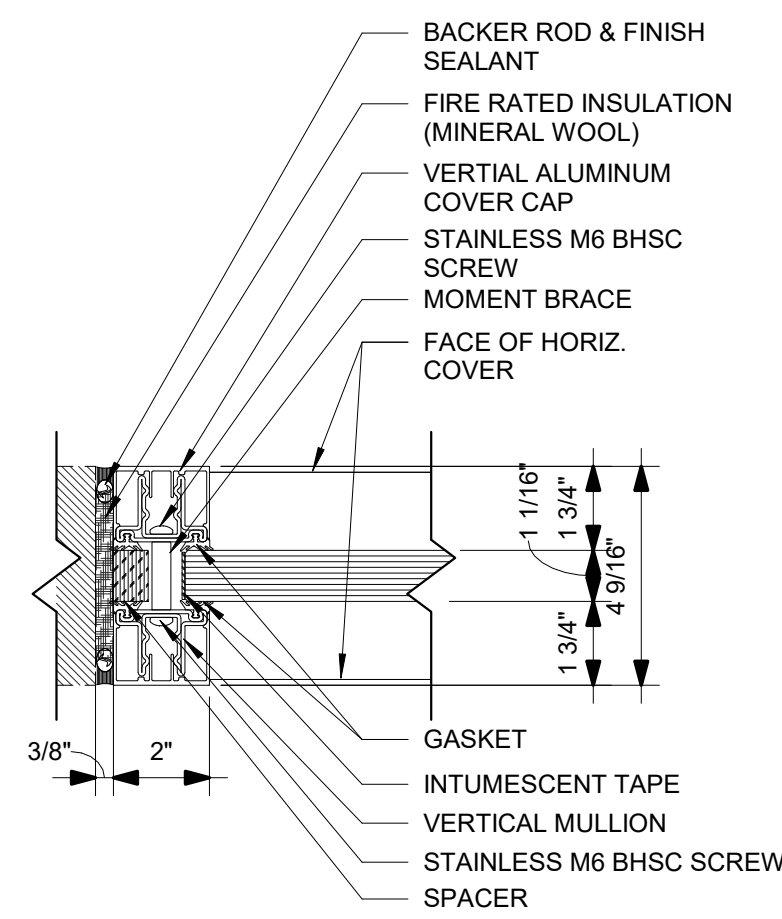
11 ACTIVE ACTIVE MEETING STILE  
A3.4 SCALE: 3" = 1'-0"



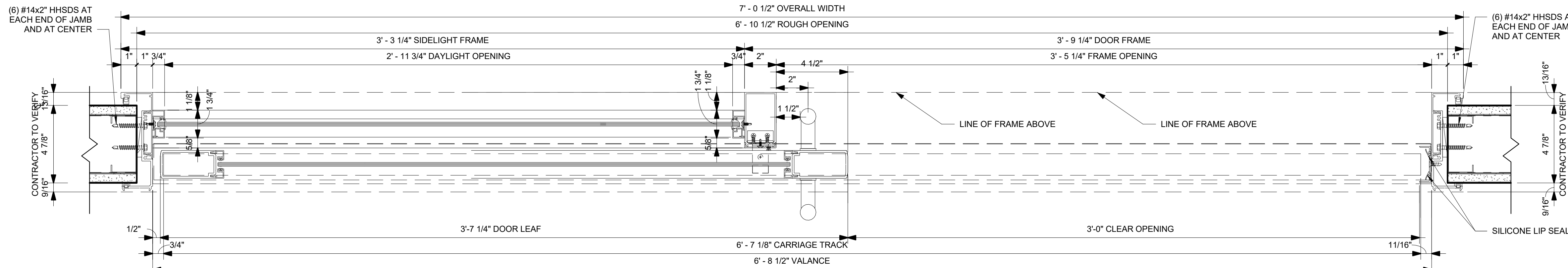
12 VERTICAL MULLION AT OUTSWING DOOR  
A3.4 SCALE: 3" = 1'-0"



13 AD SYSTEMS INETSLIDE HEAD & SILL DETAIL  
A3.4 SCALE: 3" = 1'-0"

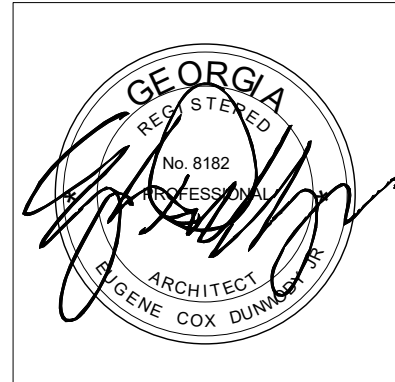


7 JAMB DETAIL  
A3.4 SCALE: 3" = 1'-0"



14 AD SYSTEMS INETSLIDE JAMB DETAIL  
A3.4 SCALE: 3" = 1'-0"

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS WITH THE AD SYSTEMS MANUFACTURER FOR THE INETSLIDE SLIDING DOOR SYSTEM



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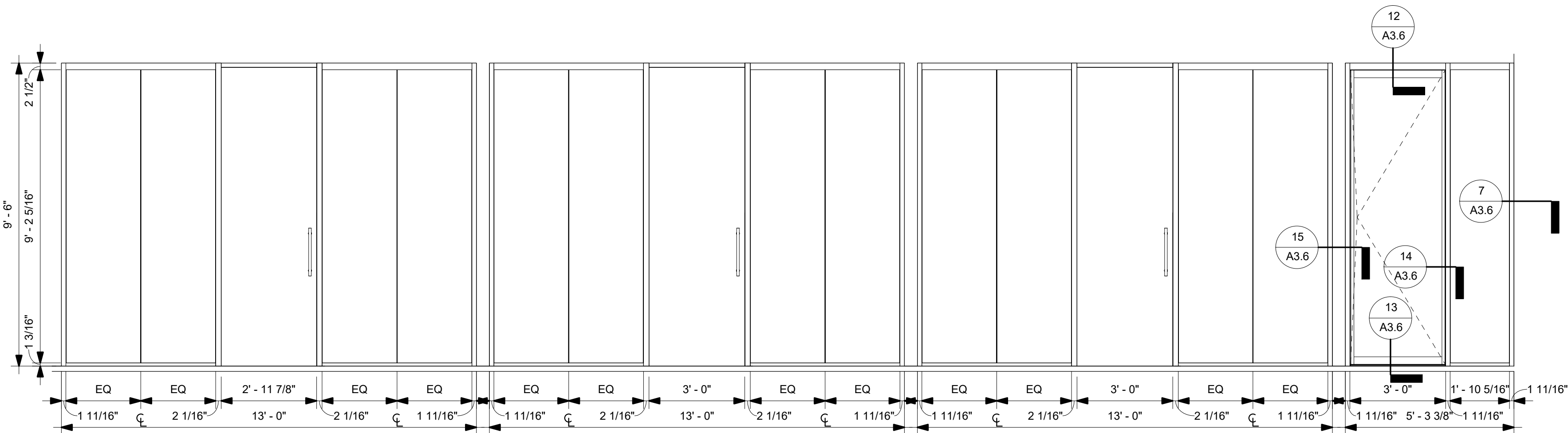
Sheet Title:  
**STOREFRONT  
ELEVATIONS &  
DETAILS**

Project #: 2229      Date: 4/18/2025

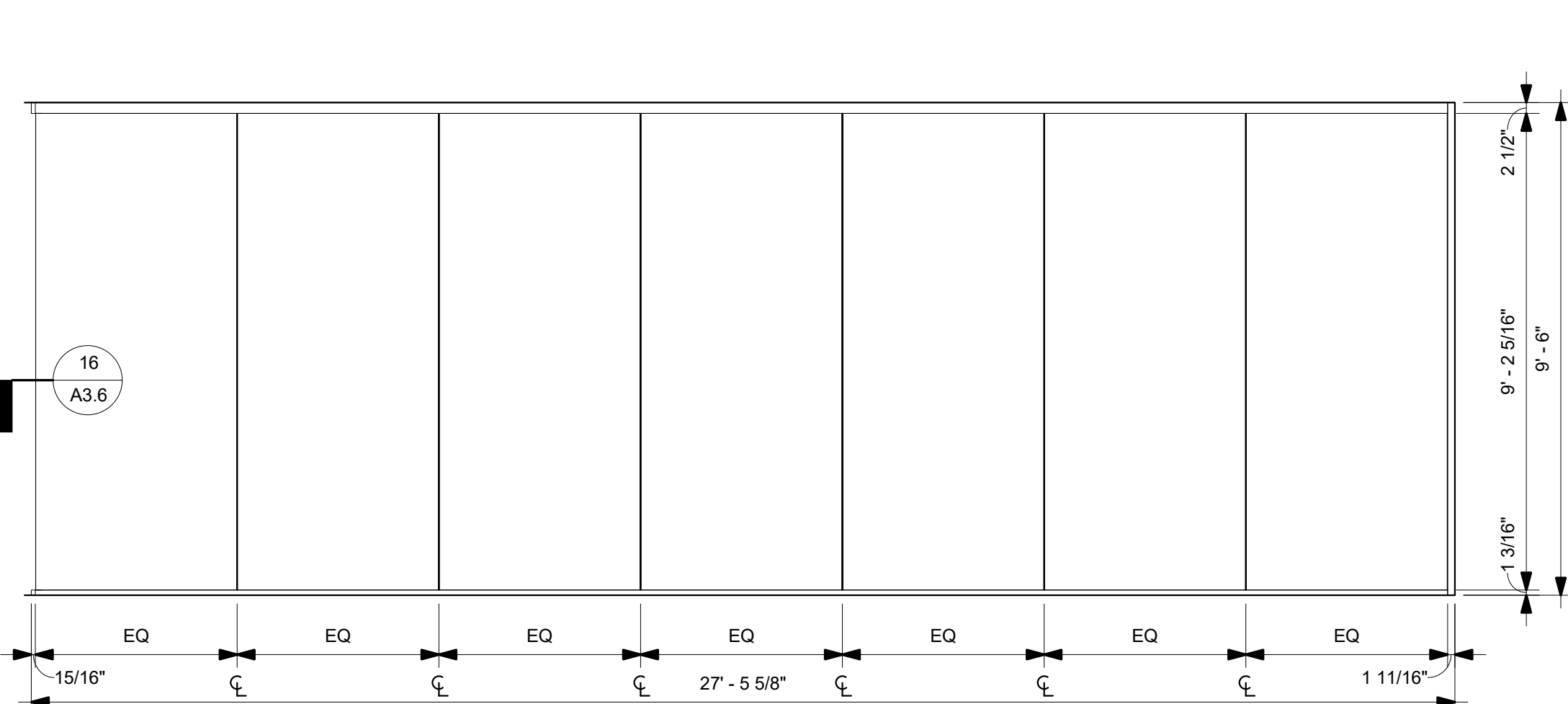
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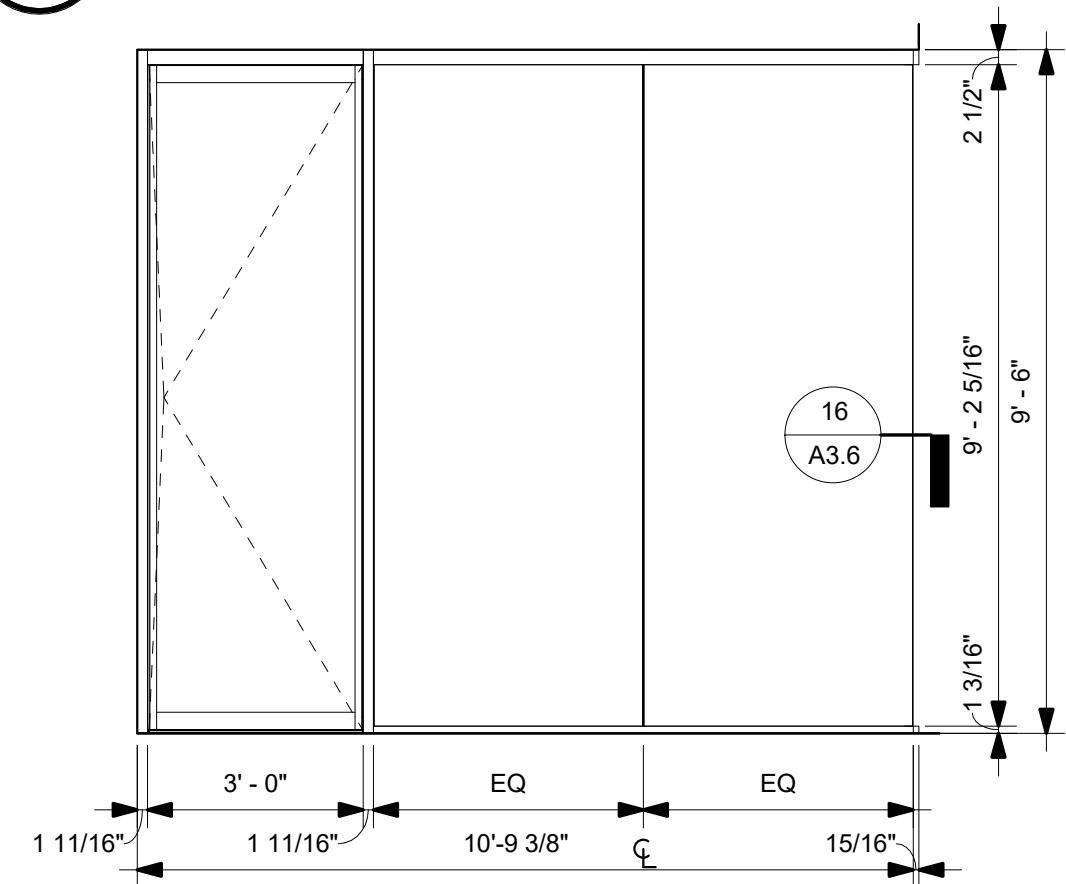
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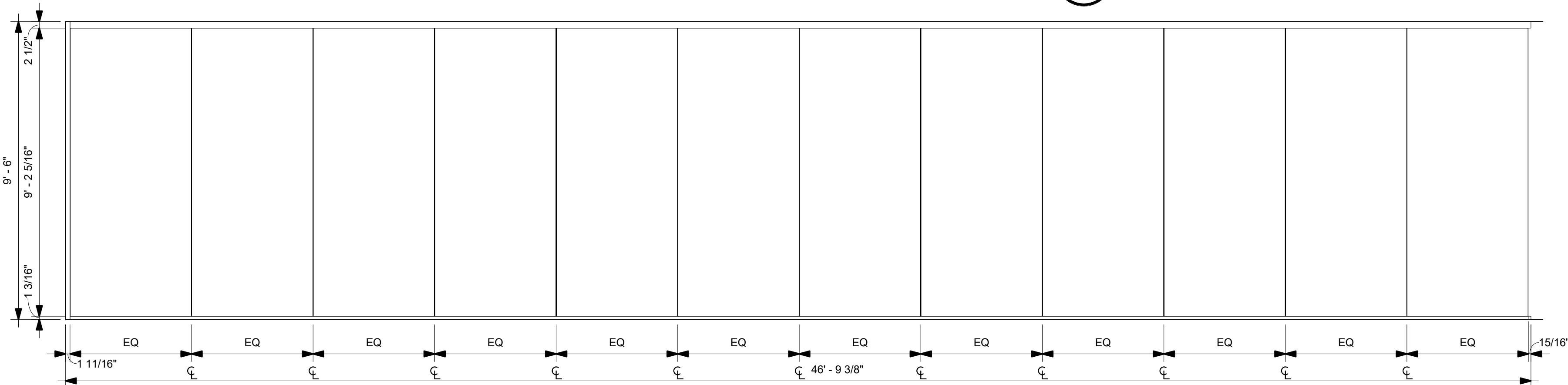
1  
A3.5 ELEVATION AT 204, 205, 206, 207  
SCALE: 3/8" = 1'-0"



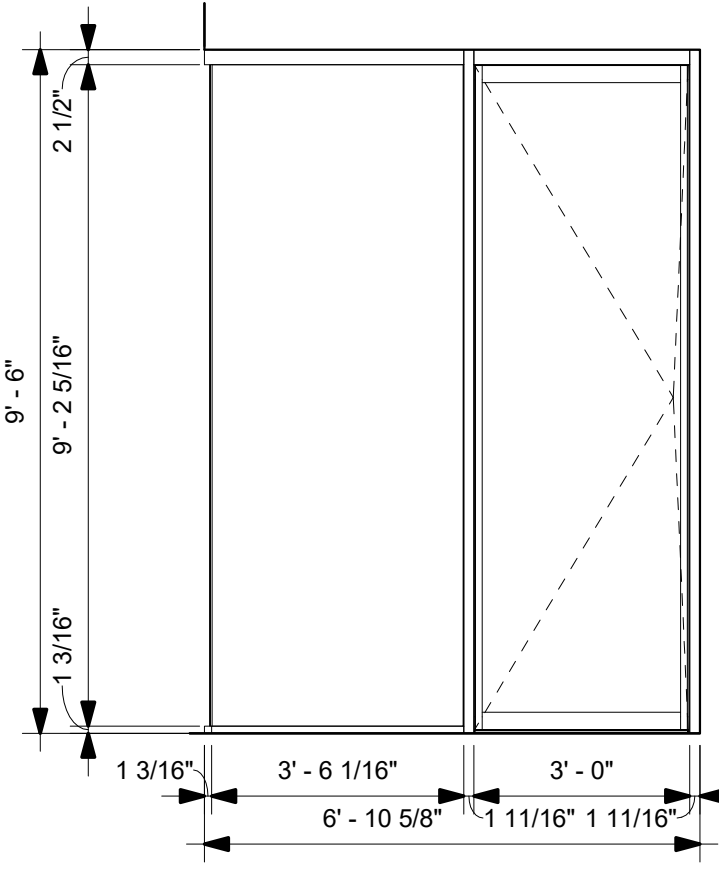
2  
A3.5 ELEVATION AT 213  
SCALE: 3/8" = 1'-0"



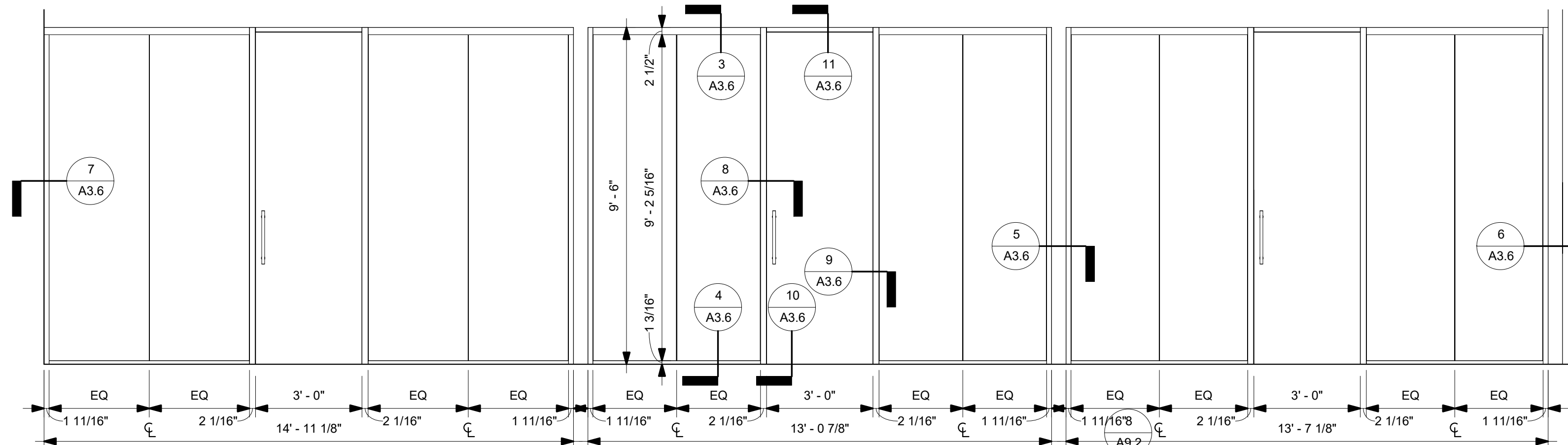
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A3.5 ELEVATION AT 213  
SCALE: 3/8" = 1'-0"



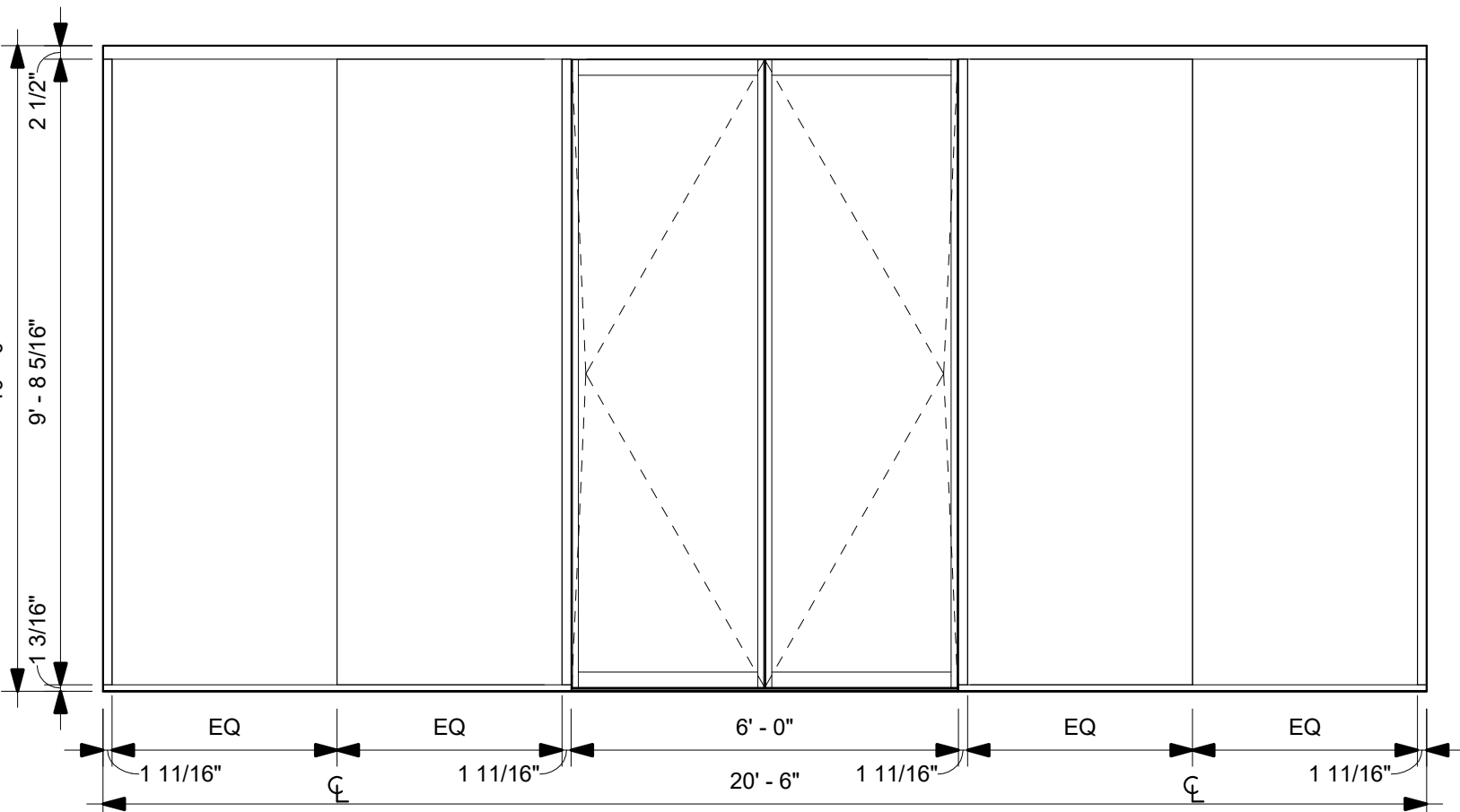
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A3.5 ELEVATION AT 212  
SCALE: 3/8" = 1'-0"



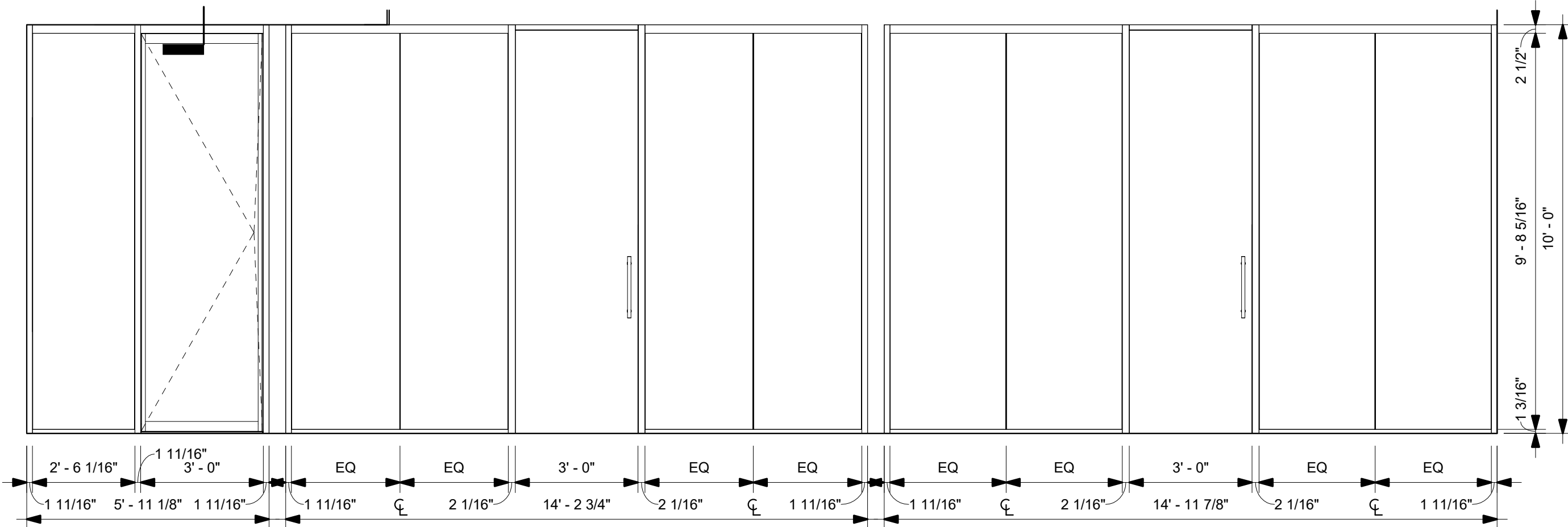
5  
A3.5 ELEVATION AT 212  
SCALE: 3/8" = 1'-0"



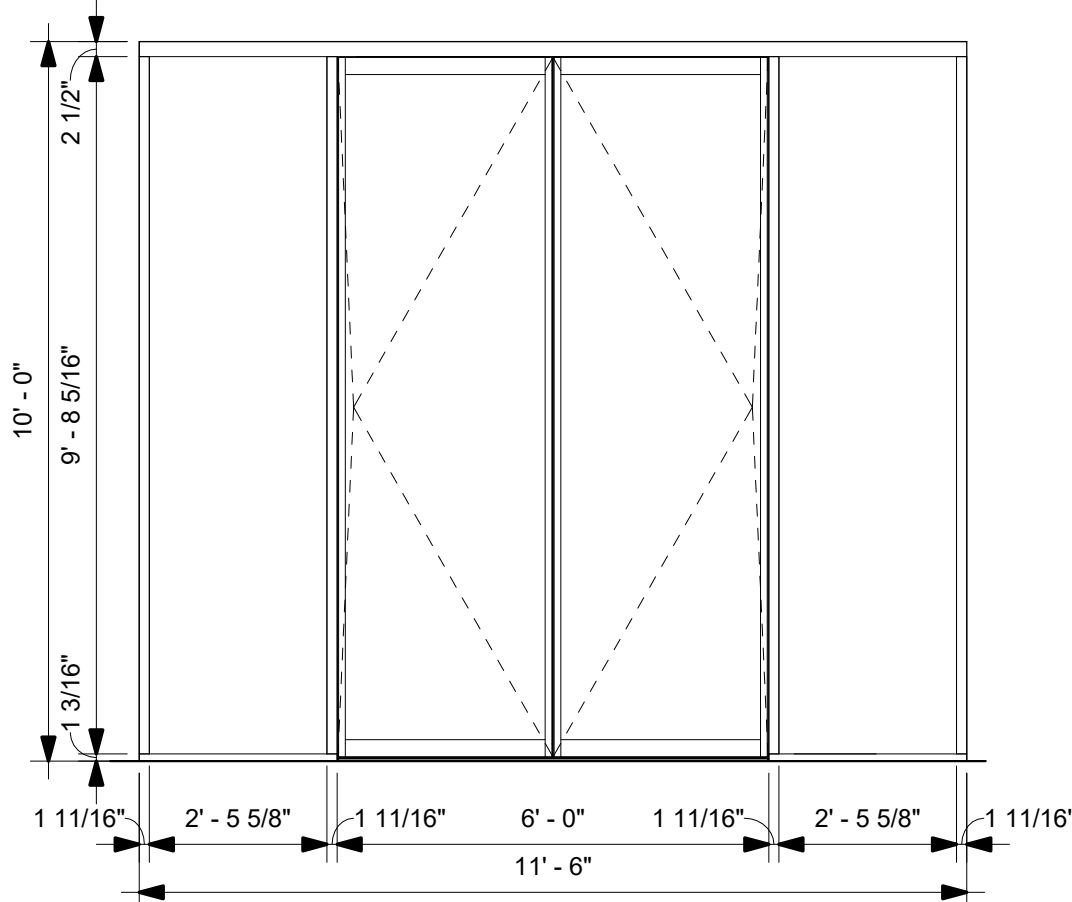
6  
A3.5 ELEVATION AT 208, 209, 211  
SCALE: 3/8" = 1'-0"



8  
A3.5 ELEVATION AT 228  
SCALE: 3/8" = 1'-0"



9  
A3.5 ELEVATION AT 309, 310, 311  
SCALE: 3/8" = 1'-0"



7  
A3.5 ELEVATION AT 228  
SCALE: 3/8" = 1'-0"

#### BASIS OF DESIGN

##### Infinium Quantum Center Single Butt-Glazed

<https://www.infiniumwalls.com/products/quantum-single-butt-glazed>

STC Range: 34-39  
Top Profile: 2" tall x 2 3/8" deep  
Vertical & Bottom Profile: 1.2" tall x 2 3/8" deep  
Glass Thickness: 1/2"  
Vertical Adjustment: 1" overall system tolerance  
Glass To Glass Connection: Clear polycarbonate I-beam (in lieu of silicone)  
Door Options: Single-glazed, aluminum framed  
Finish: Clear anodized

##### Infinium Frames Glass Sliding Doors, Framed Glass Hinge Doors

<https://www.infiniumwalls.com/products/doors>

STC Range: 39  
Horizontal (Top) Rails: 3"  
Vertical Stiles: 1"  
Bottom Rails: 3"  
Glass Thickness: 1/2"  
Soundproofing: Standard acoustic seals and gaskets included  
Closers: Hold open  
Hardware: LDP1A13 (ADA) Locking Ladder Pull; Drop Seals

LDP1A13 (ADA) Locking Ladder Pull  
+ Heavy duty stainless steel construction  
+ Key-operated from exterior; turnknob from interior  
+ Accommodates door thickness 8-19mm range  
+ 16mm steel deadbolt with 32mm throw  
+ Floor locking standard  
+ Bolt location: 64mm from face of door to centerline of bolt  
+ Available in SFIC & LFIC, side-bitted, or standard SC cylinder options

##### Framed Glass Drop Seals

+ Sound absorption level up to 48 dB with optimal sealing  
+ No scraping/tearing on the floor, thanks to parallel drop  
+ Automatic compensation for uneven flooring  
+ High-quality silicone lip, lateral protrusion adjustable  
+ Easy drop height adjustment

##### Infinium Proprietary Hinge

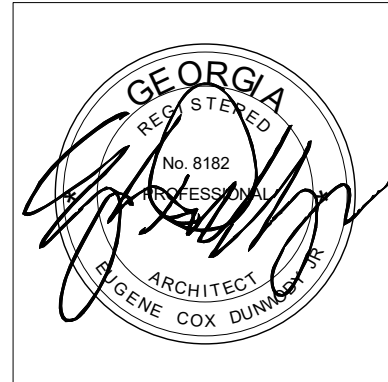
+ 4-1/2" x 4-1/2" full mortise five knuckle ball bearing hinge  
+ Two ball bearings  
+ For use on medium weight doors or doors requiring medium frequency service  
+ Complies with NFPA80 requirements for us on fire-rated door assemblies

##### Infinium Proprietary Closer

+ Concealed in door track arm closer  
+ Designed to mount in a 1-3/4" thick interior door  
+ Single lever arm and roller assembly provides complete concealment  
+ Hold-open or non-hold open function available

##### Infinium Proprietary Sliding Hardware

+ Standard soft-open, soft-close  
+ Fitting set for single 132 lb or 220 lb top hung sliding glass door with upper track  
+ Wall mounting and ceiling installation



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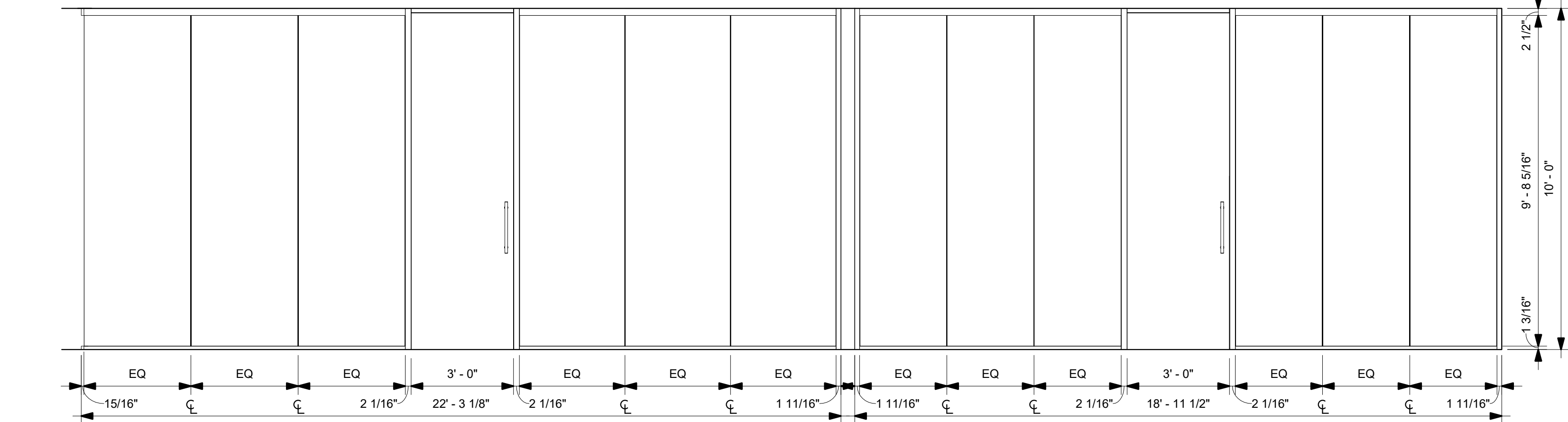
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**Sheet Title:**  
**STOREFRONT  
ELEVATIONS &  
DETAILS**

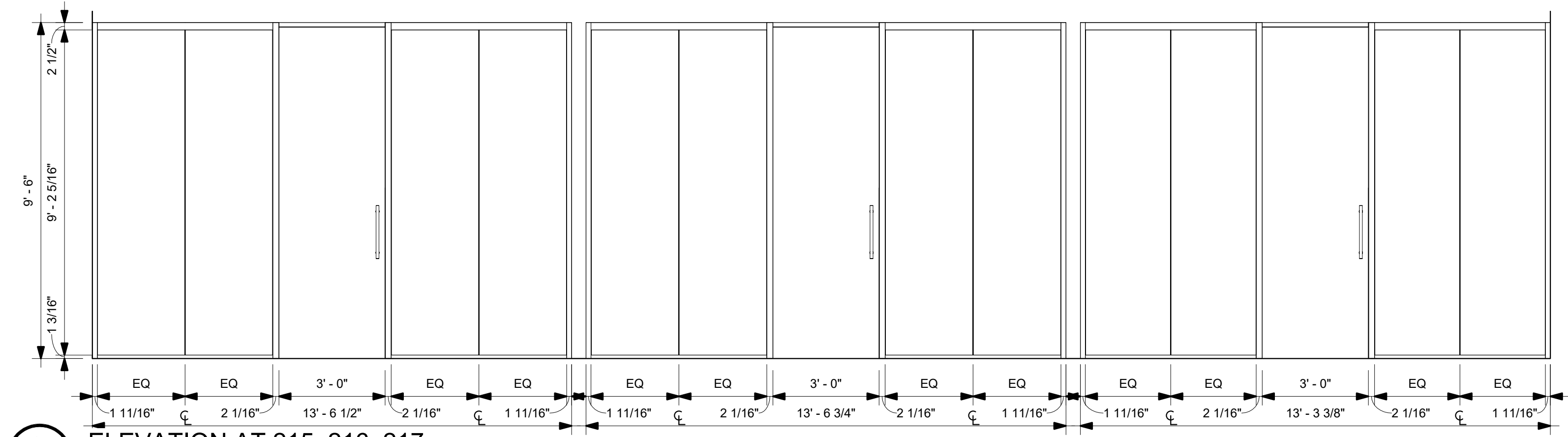
**Project #:** 2229 **Date:** 4/18/2025

**A3.5**

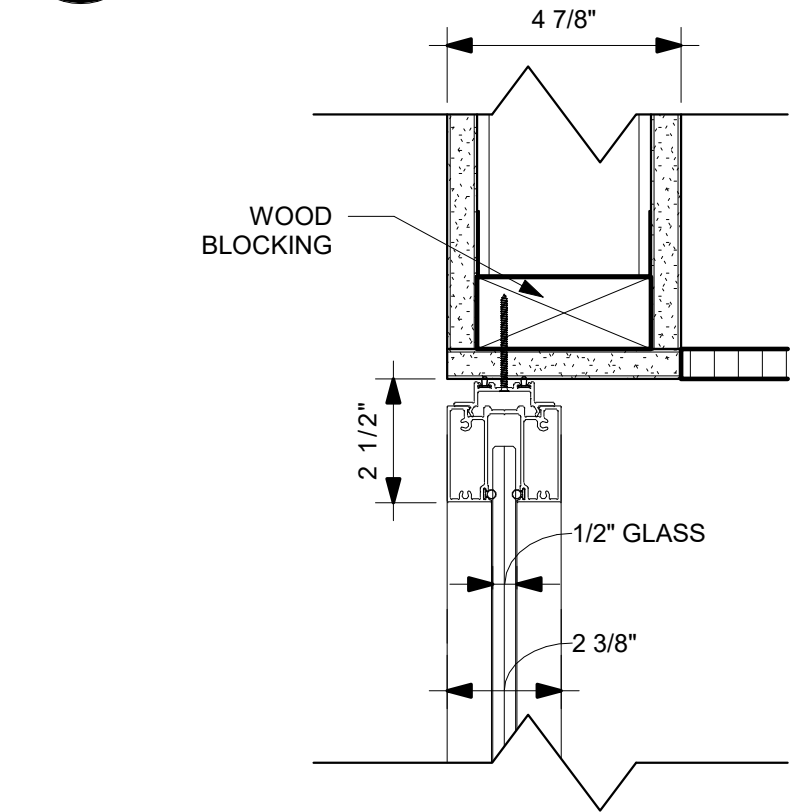
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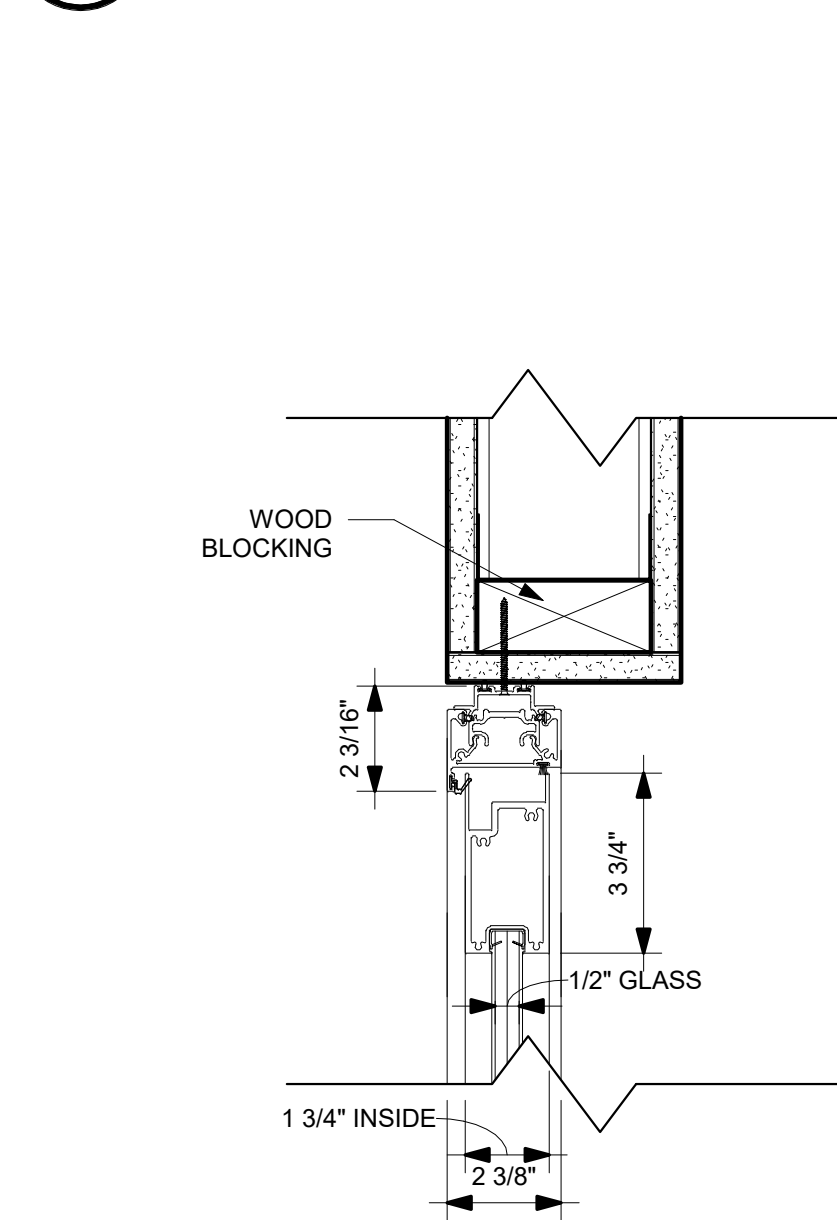
1 ELEVATION AT 312, 313  
A3.6 SCALE: 3/8" = 1'-0"



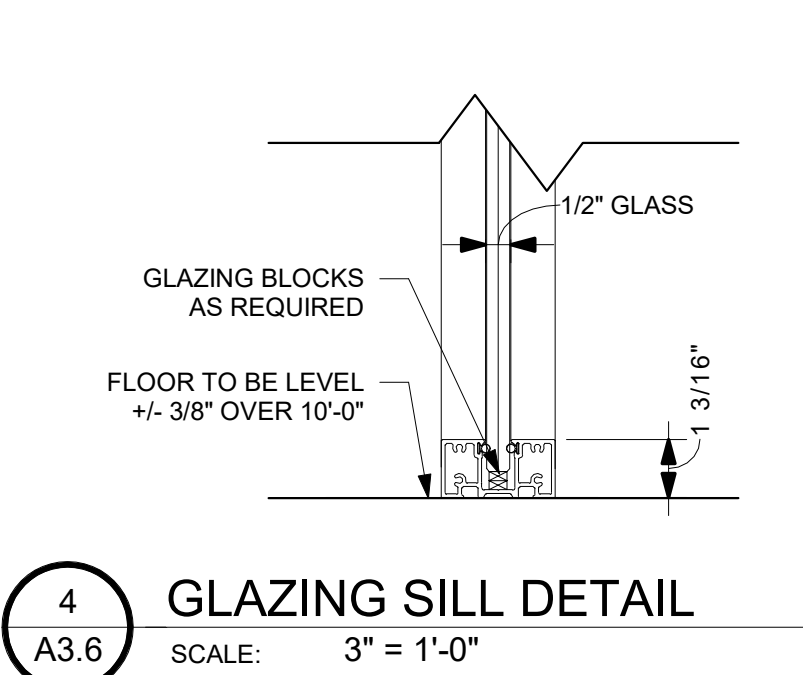
18 ELEVATION AT 215, 216, 217  
A3.6 SCALE: 3/8" = 1'-0"



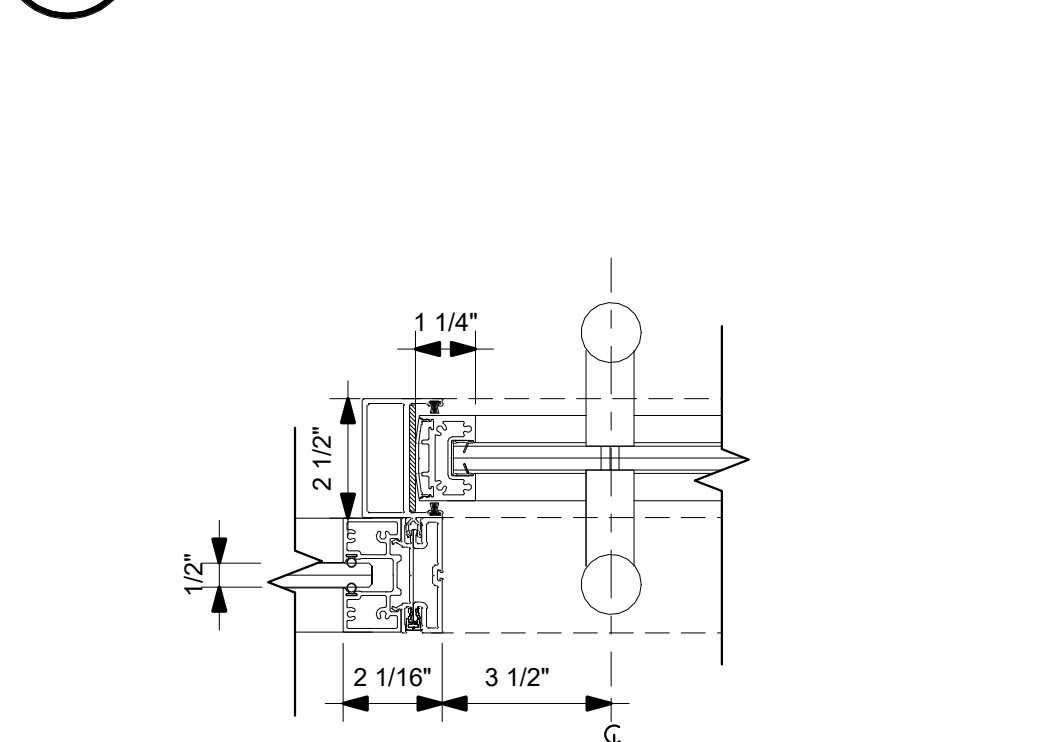
3 GLAZING HEAD DETAIL  
A3.6 SCALE: 3" = 1'-0"



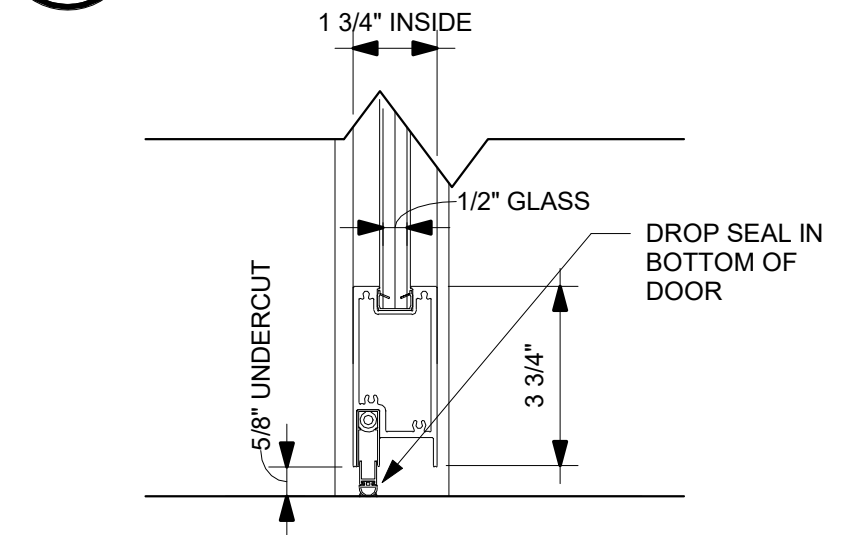
12 HINGE DOOR HEAD DETAIL  
A3.6 SCALE: 3" = 1'-0"



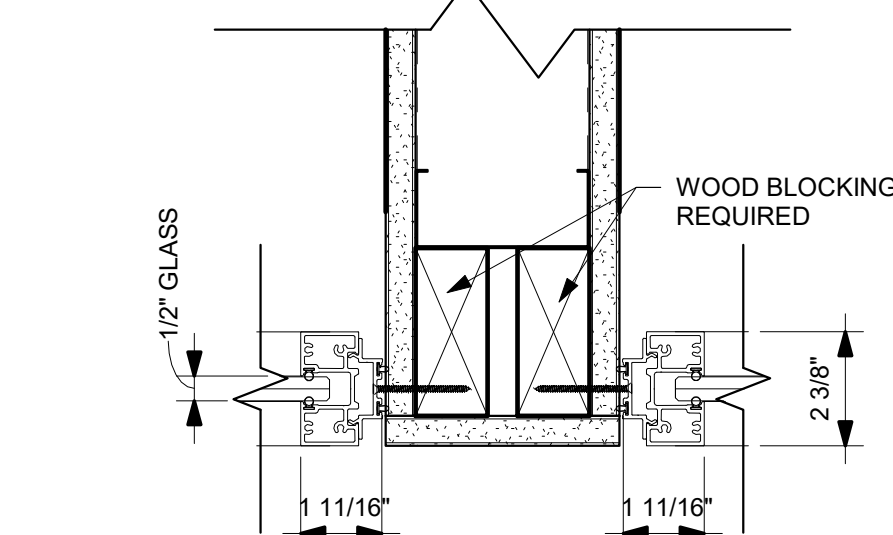
4 GLAZING SILL DETAIL  
A3.6 SCALE: 3" = 1'-0"



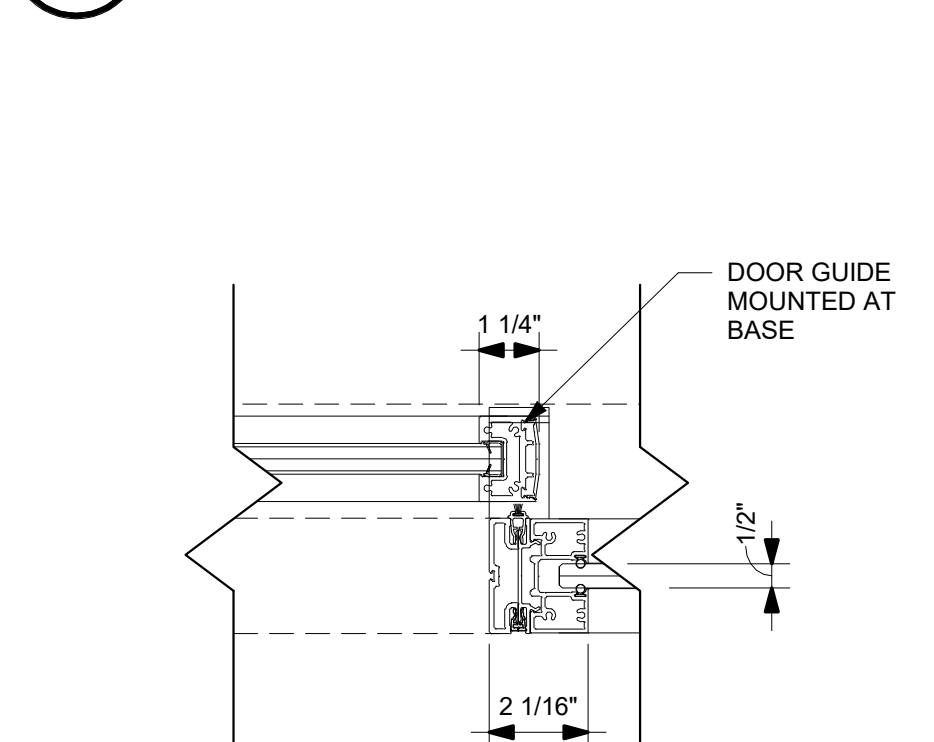
8 PANEL TO DOOR FRAME RECEIVER  
A3.6 SCALE: 3" = 1'-0"



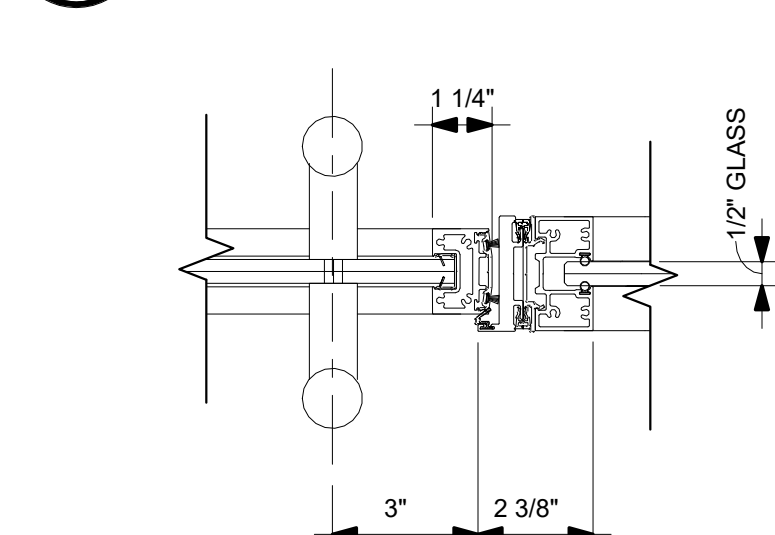
13 HINGE DOOR SILL DETAIL  
A3.6 SCALE: 3" = 1'-0"



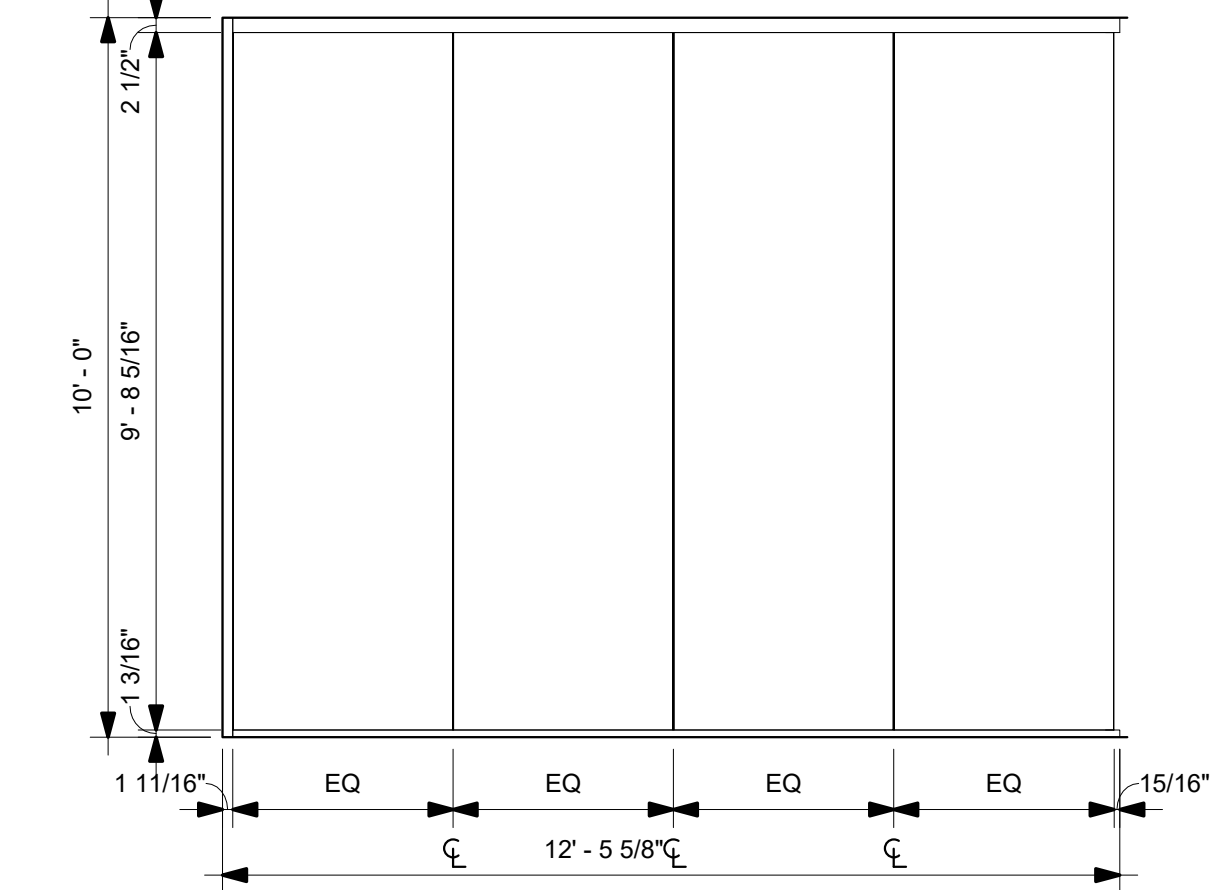
5 GLAZING WALL START AT DEMISING WALL  
A3.6 SCALE: 3" = 1'-0"



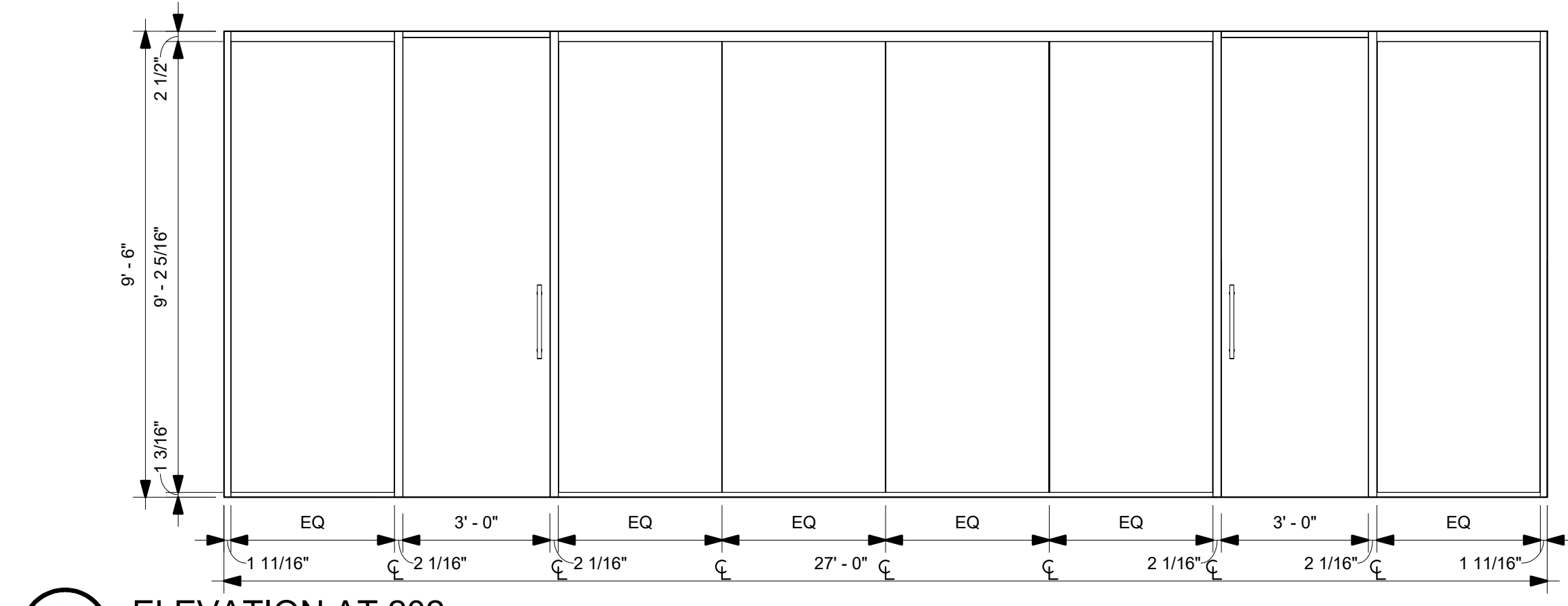
9 PANEL TO DOOR FRAME SEAL  
A3.6 SCALE: 3" = 1'-0"



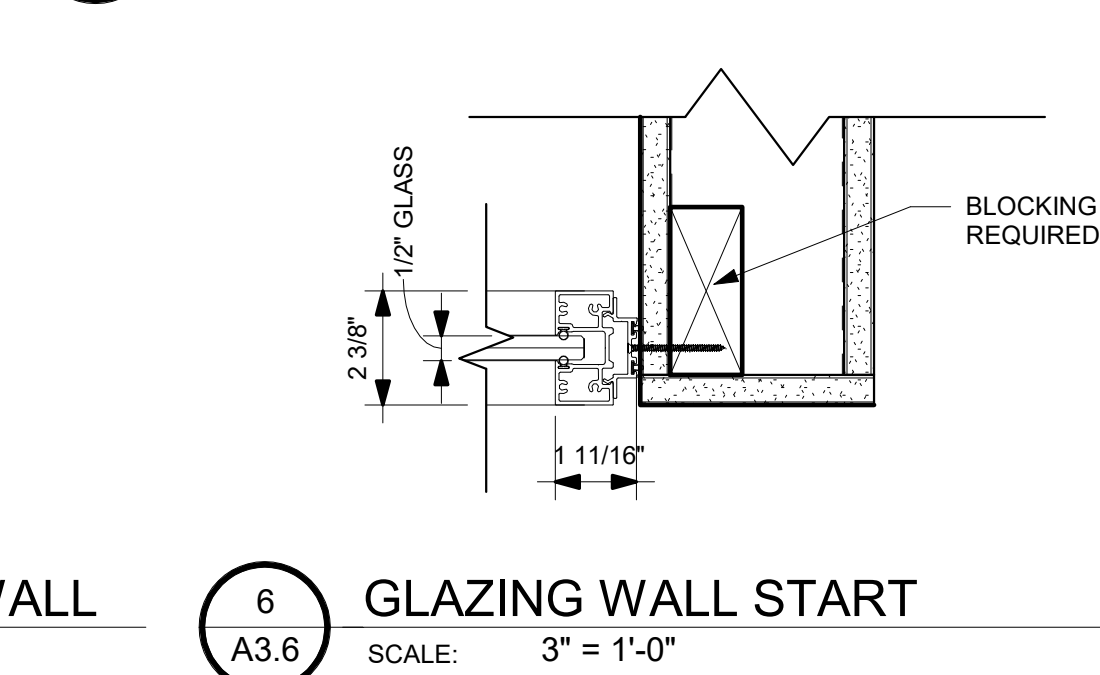
14 DOOR PANEL TO DOOR FRAME KEEPER  
A3.6 SCALE: 3" = 1'-0"



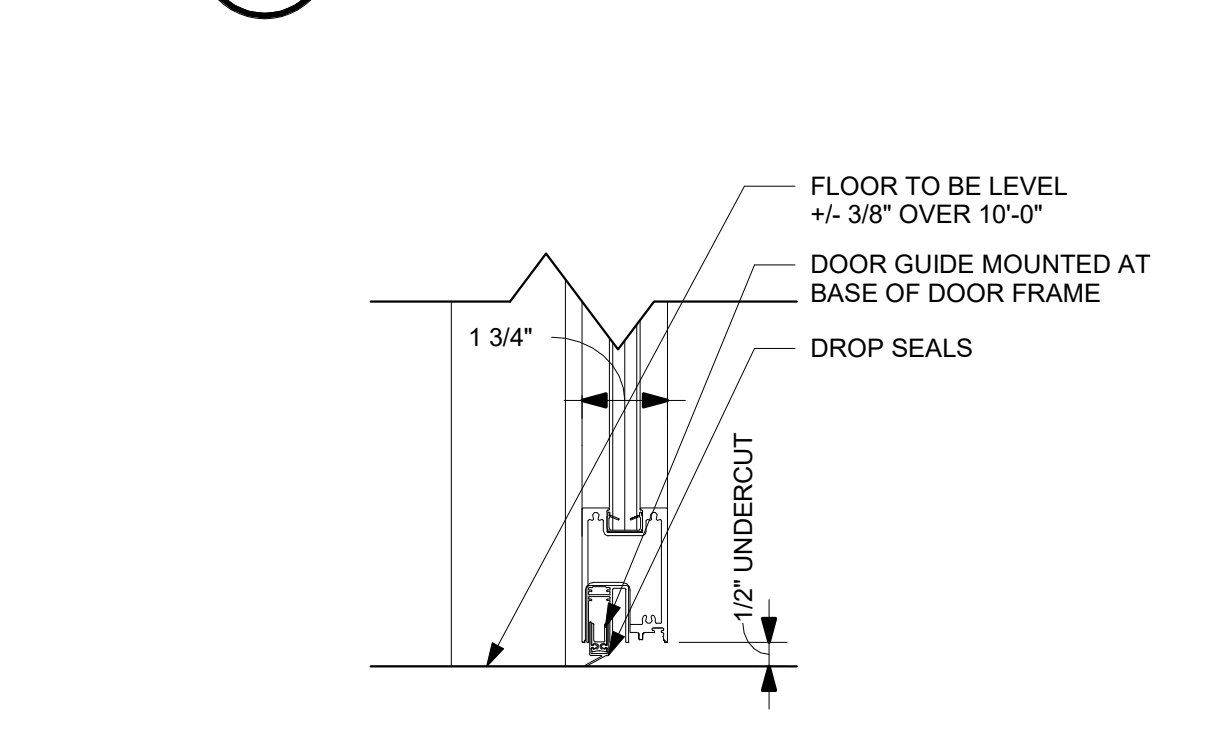
2 ELEVATION AT 313  
A3.6 SCALE: 3/8" = 1'-0"



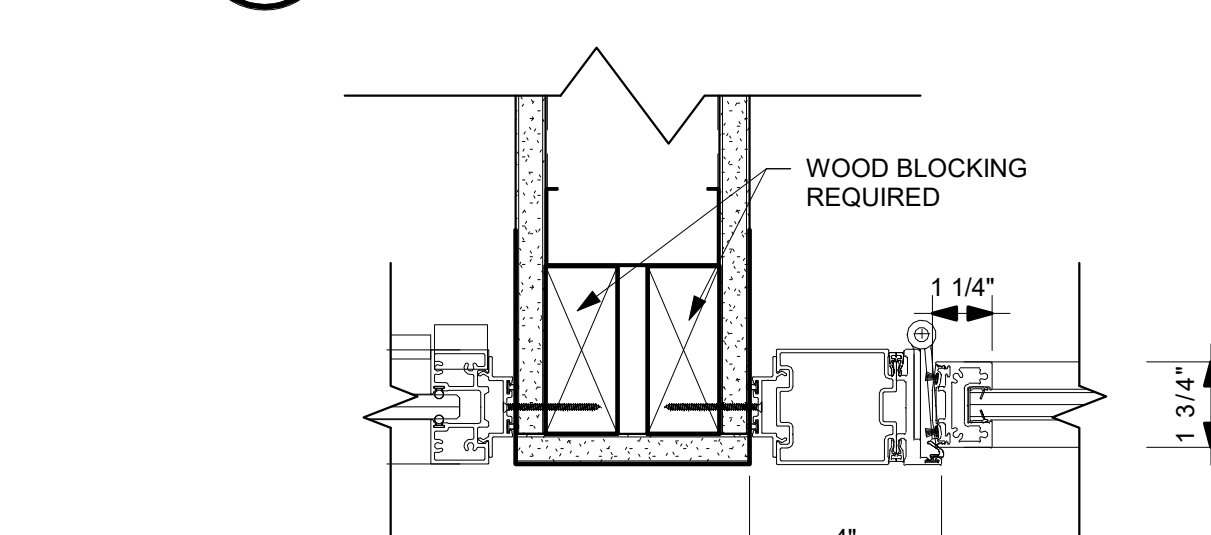
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A3.6 SCALE: 3/8" = 1'-0"



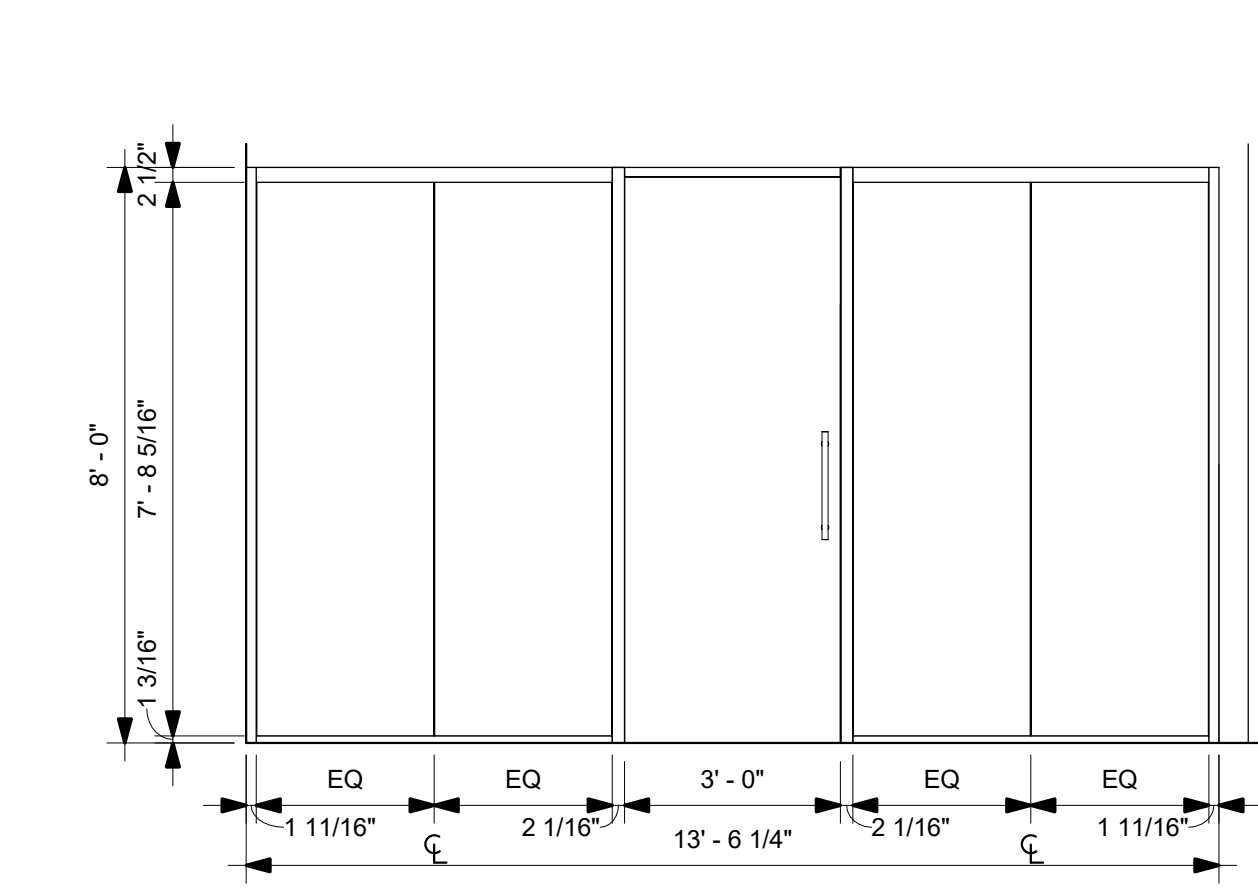
6 GLAZING WALL START  
A3.6 SCALE: 3" = 1'-0"



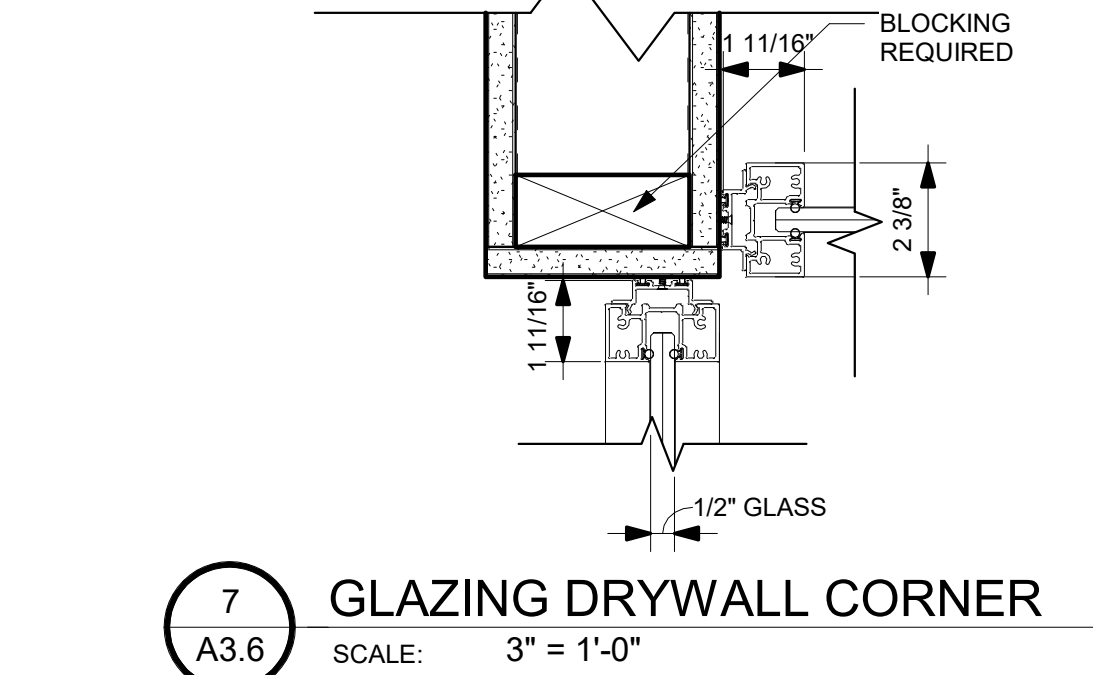
10 SLIDER SILL DETAIL  
A3.6 SCALE: 3" = 1'-0"



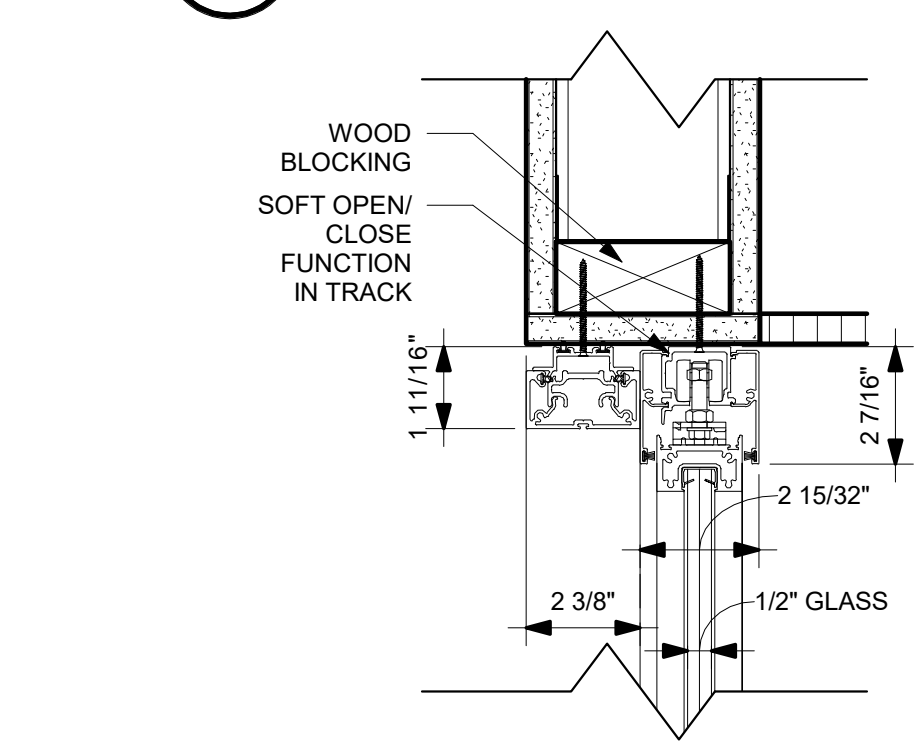
15 DOOR FRAME AT DRYWALL  
A3.6 SCALE: 3" = 1'-0"



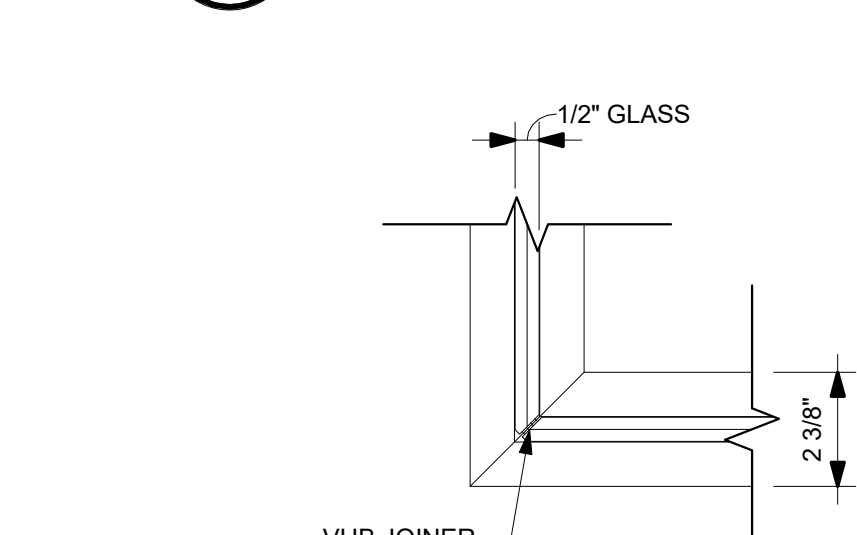
17 ELEVATION AT 131  
A3.6 SCALE: 3/8" = 1'-0"



7 GLAZING DRYWALL CORNER  
A3.6 SCALE: 3" = 1'-0"



11 SLIDER HEAD DETAIL  
A3.6 SCALE: 3" = 1'-0"



16 BUTT GLAZED CORNER CONNECTION  
A3.6 SCALE: 3" = 1'-0"



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Sheet Title:  
**STOREFRONT**  
**ELEVATIONS**  
**AND DETAILS**

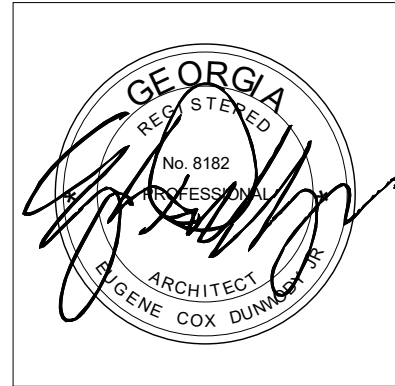
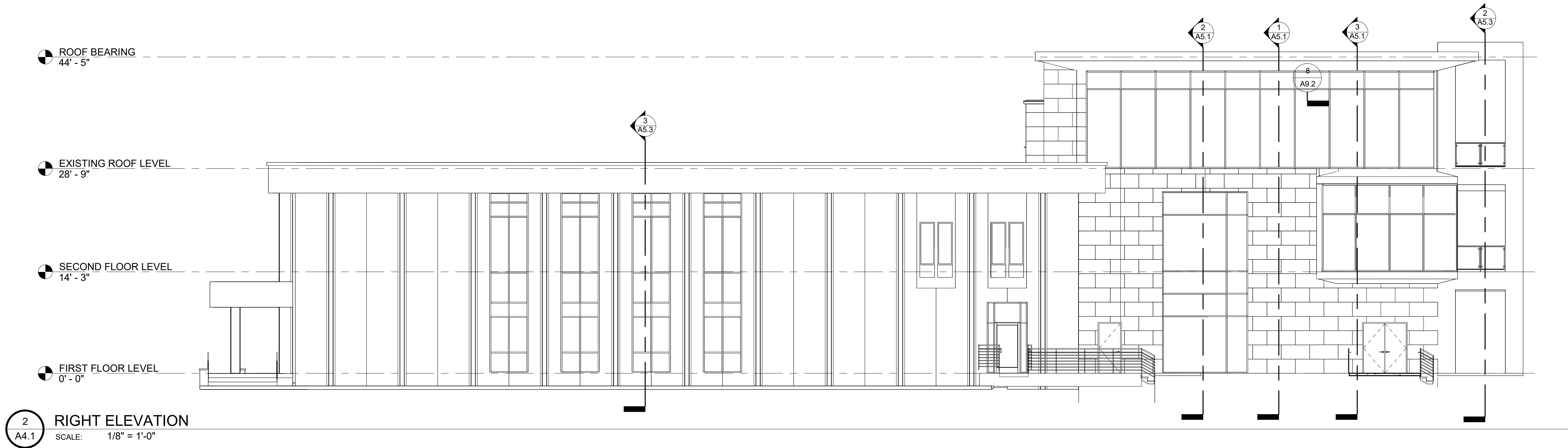
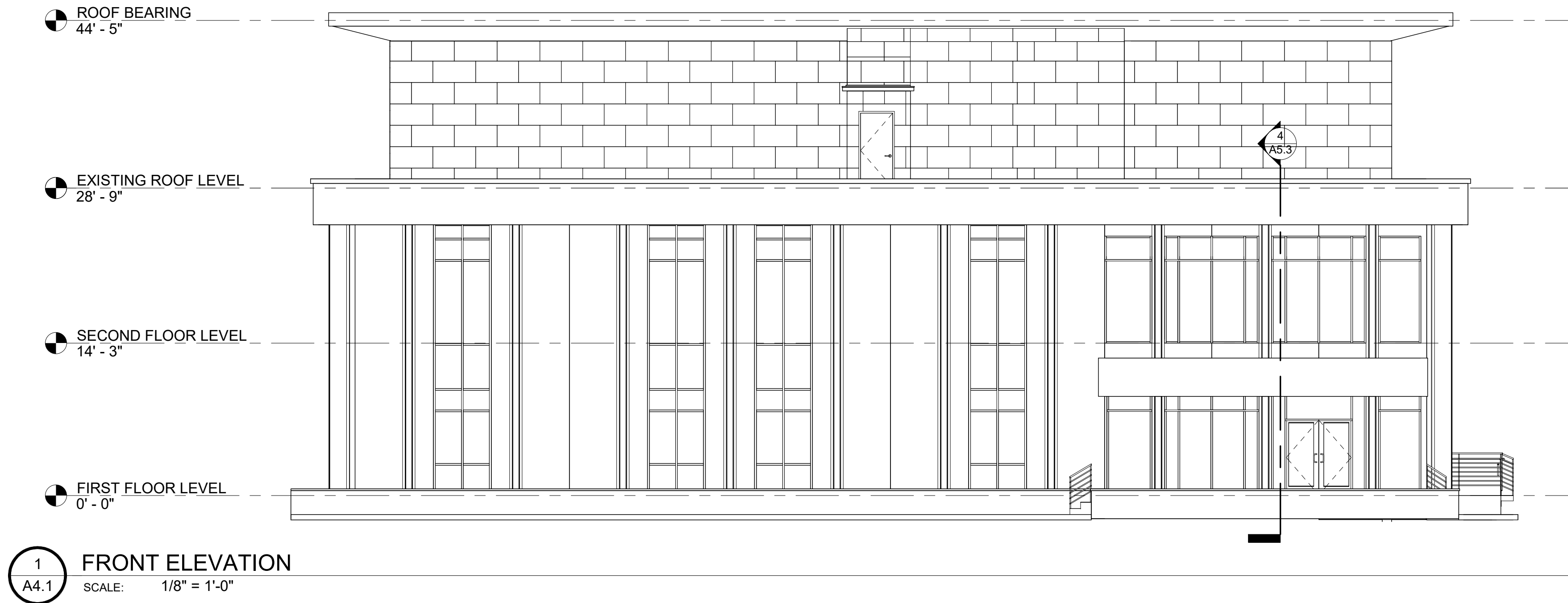
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**A3.6**

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Sheet Title:  
**ELEVATIONS**

Project #: 2229    Date: 4/18/2025

**A4.1**

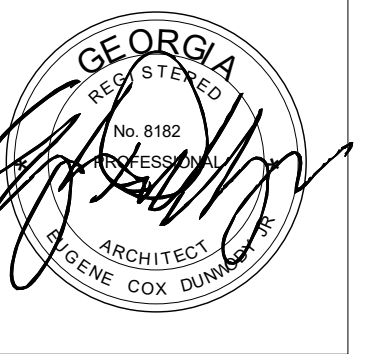
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1  
A4.2 REAR ELEVATION  
SCALE: 1/8" = 1'-0"



2  
A4.2 LEFT ELEVATION  
SCALE: 1/8" = 1'-0"



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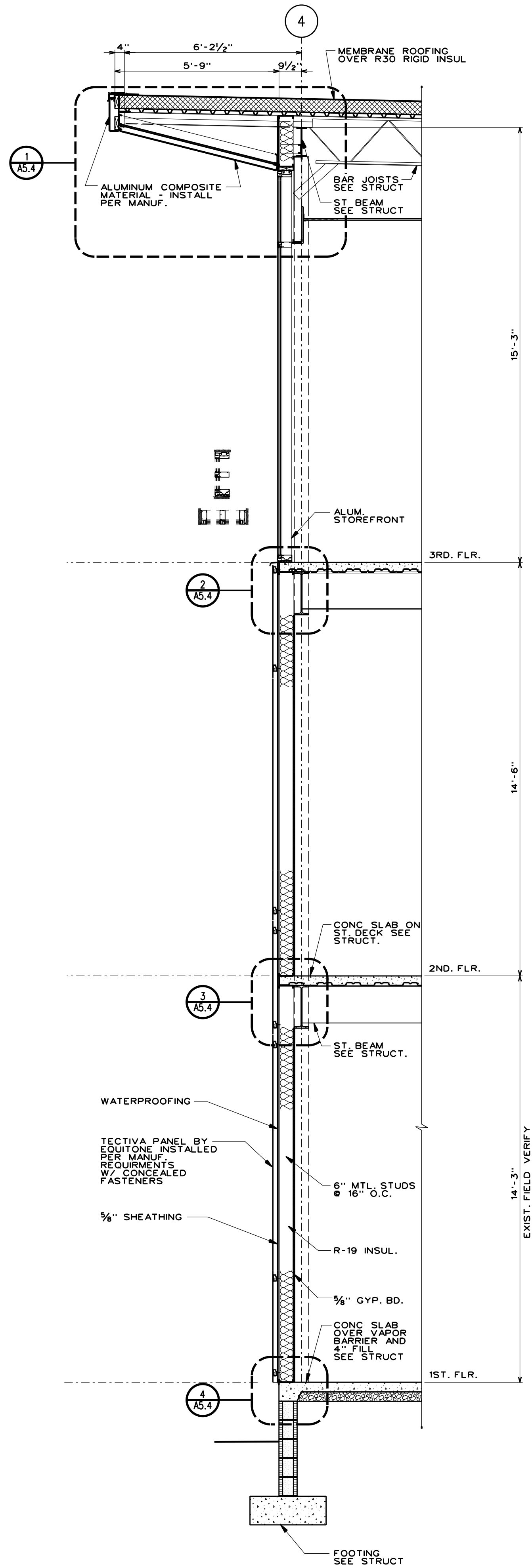
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ELEVATIONS

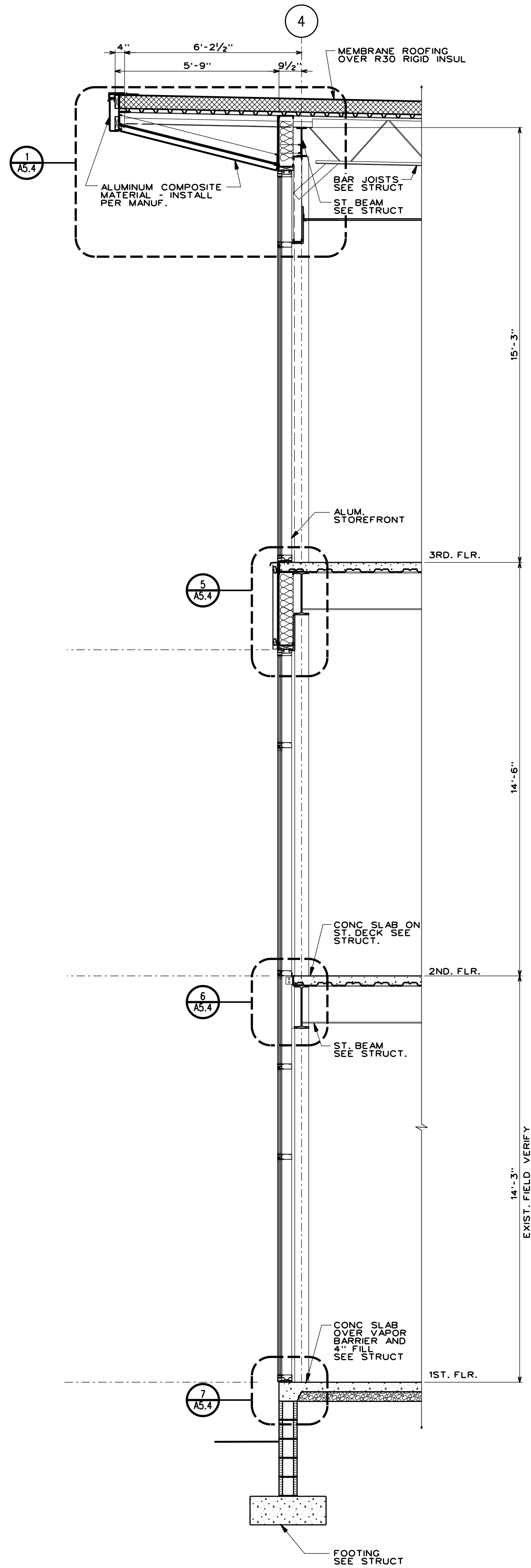
Project #: 2229 Date: 4/18/2025

**A4.2**

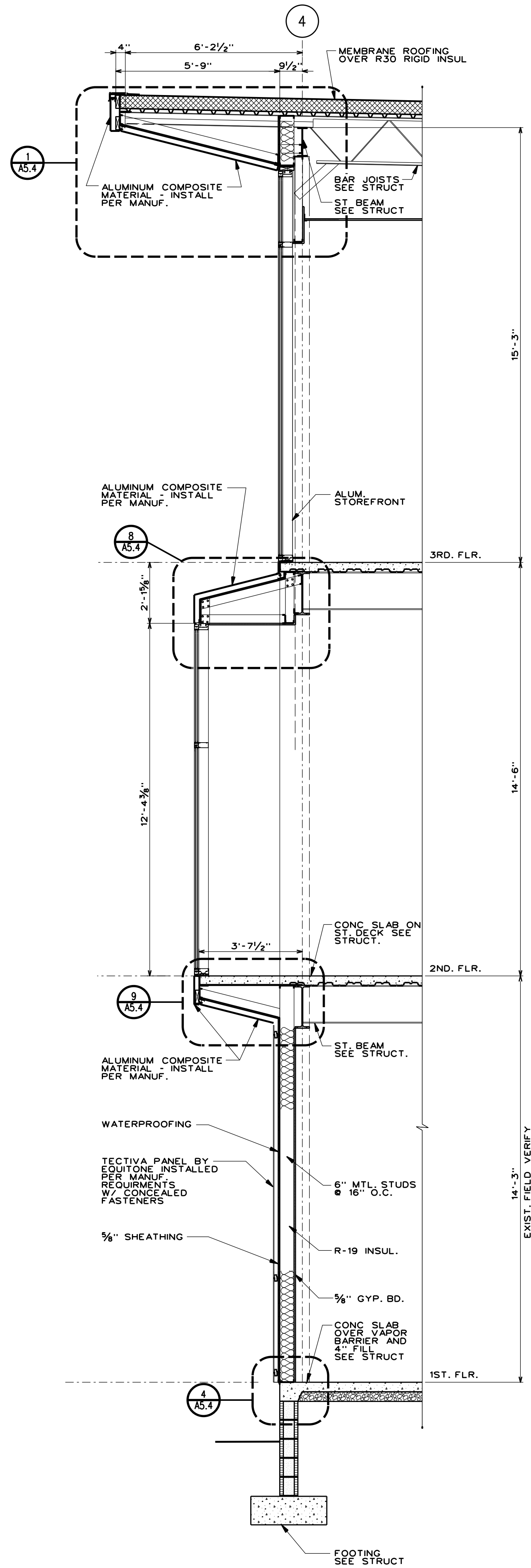




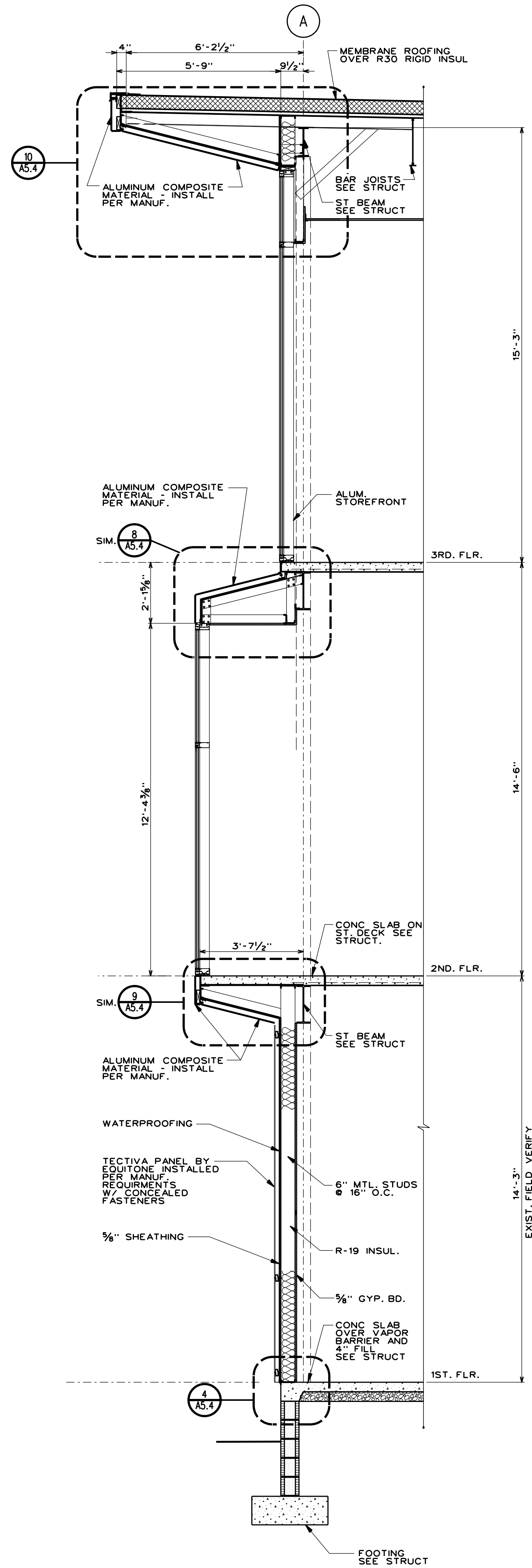
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SCALE: 3/8" = 1'-0"



2 WALL SECTION  
SCALE: 3/8" = 1'-0"



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



4 WALL SECTION  
SCALE: 3/8" = 1'-0"

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Sheet Title:  
WALL SECTIONS

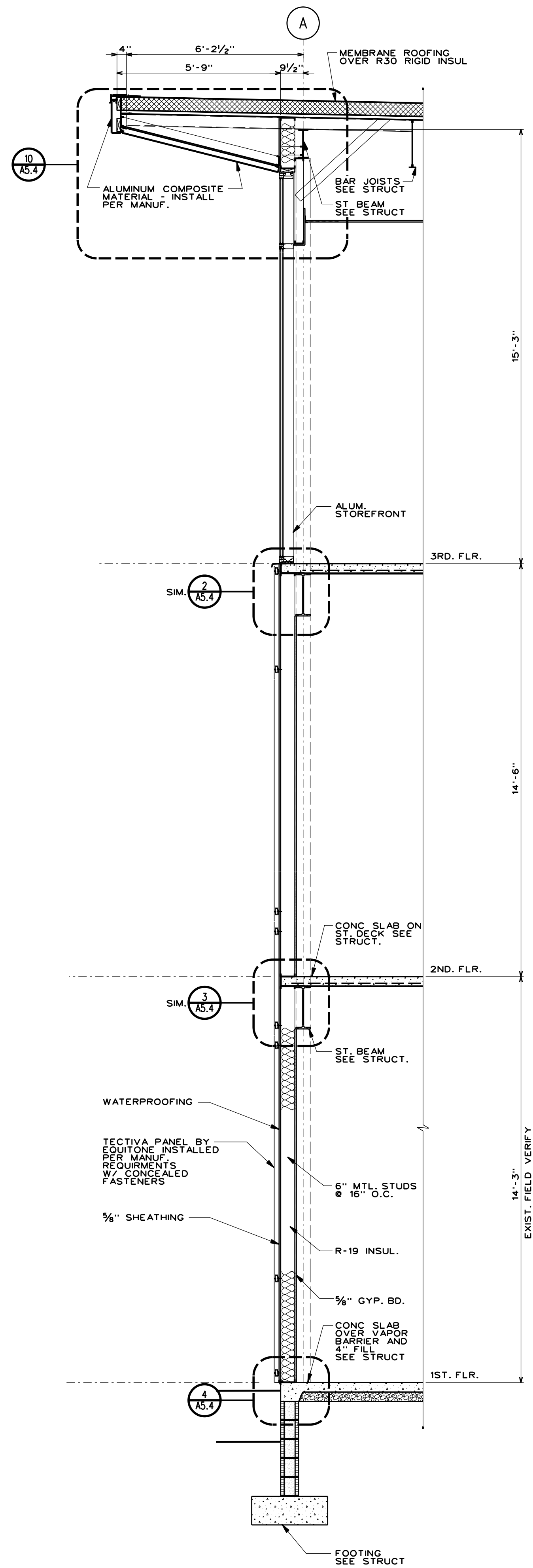
Project #: 2229 Date: 4/18/2025

**A5.1**

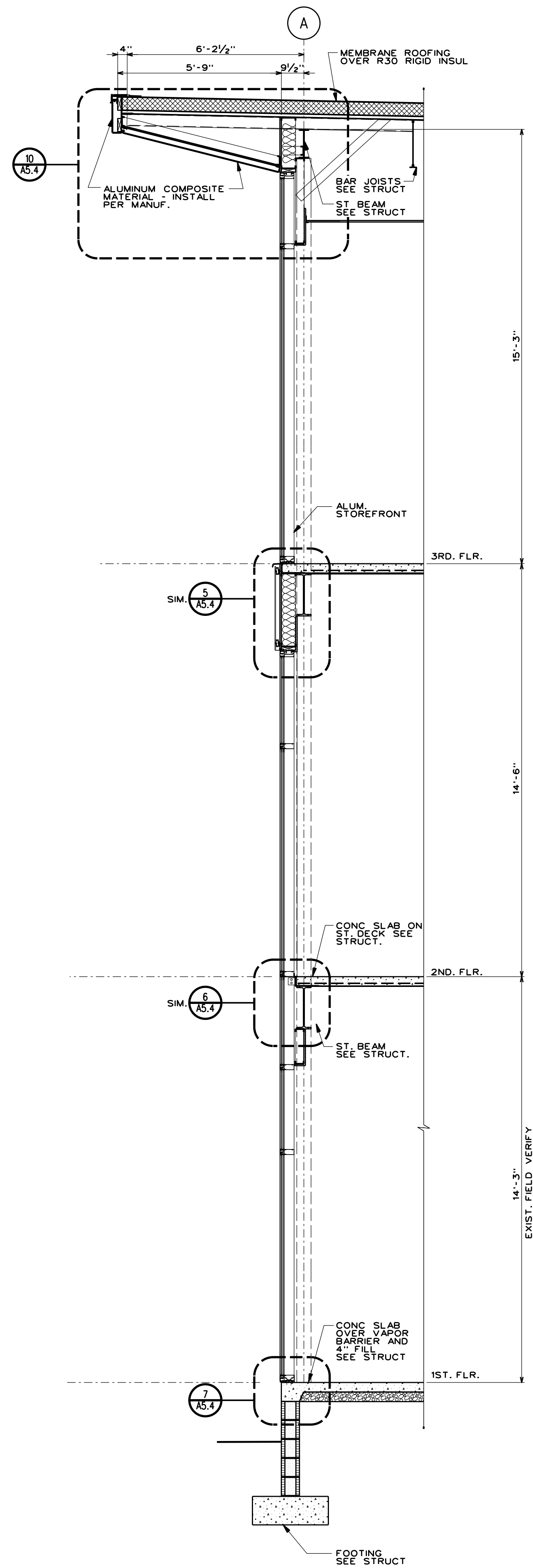
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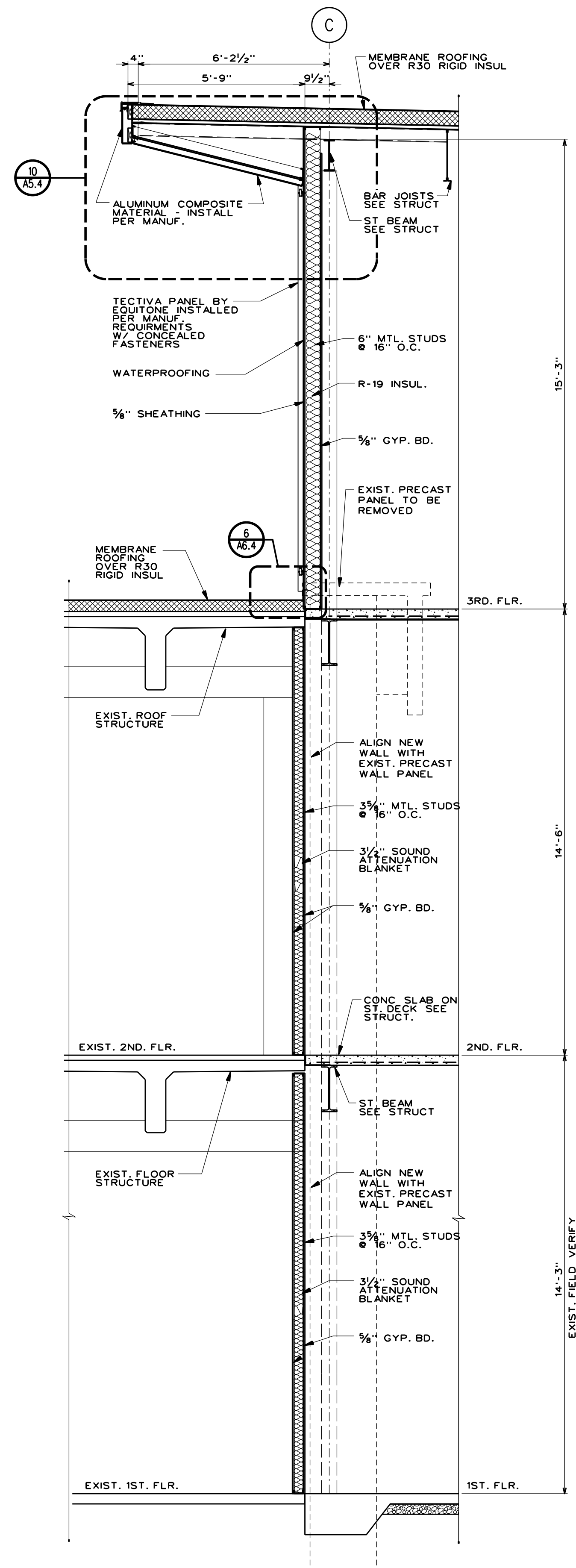
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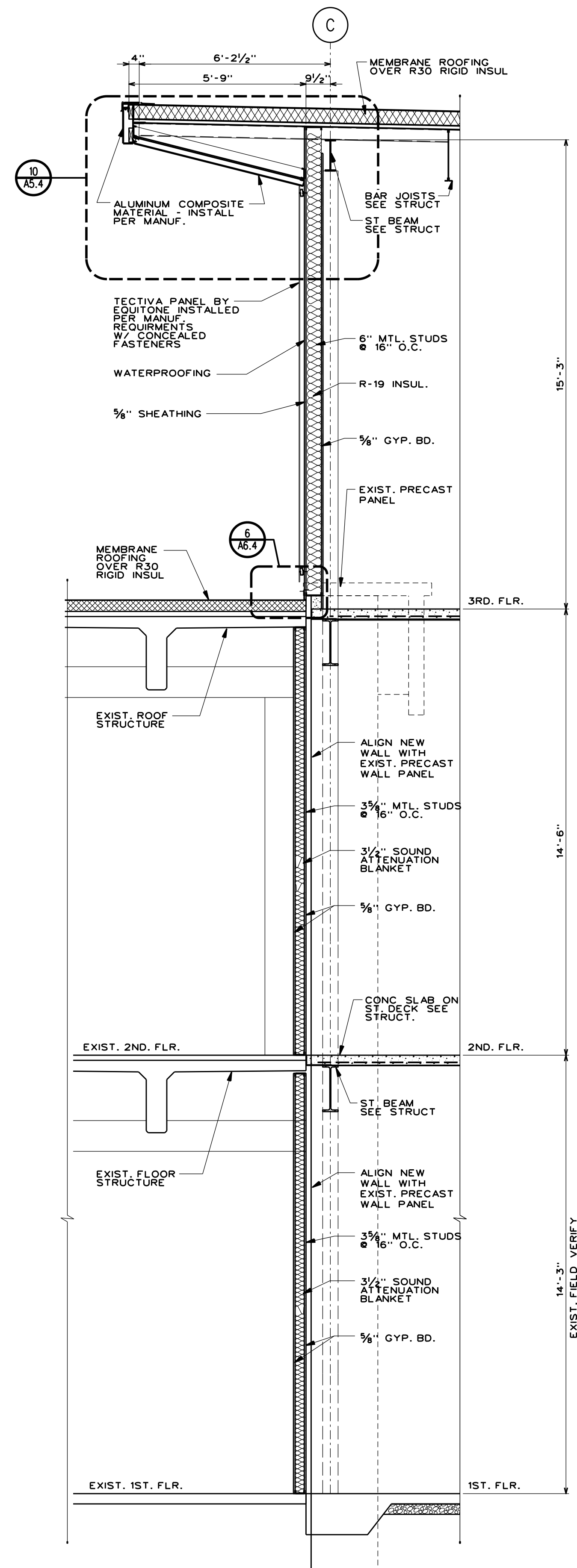
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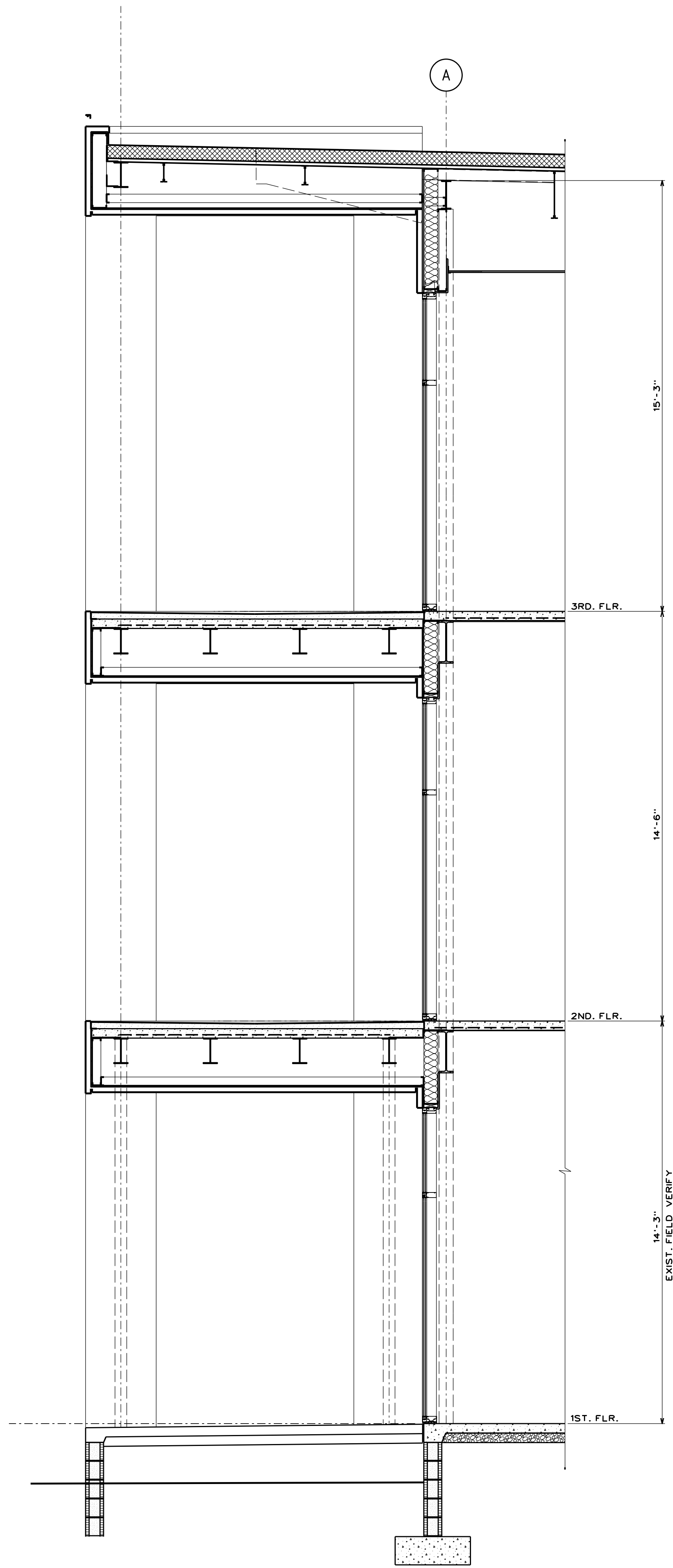
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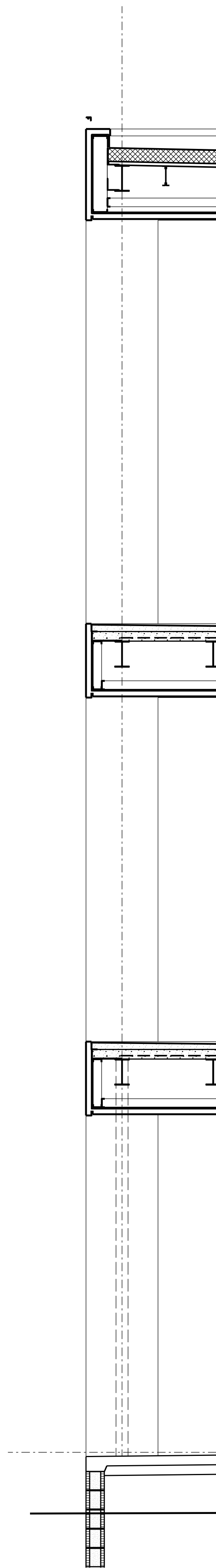
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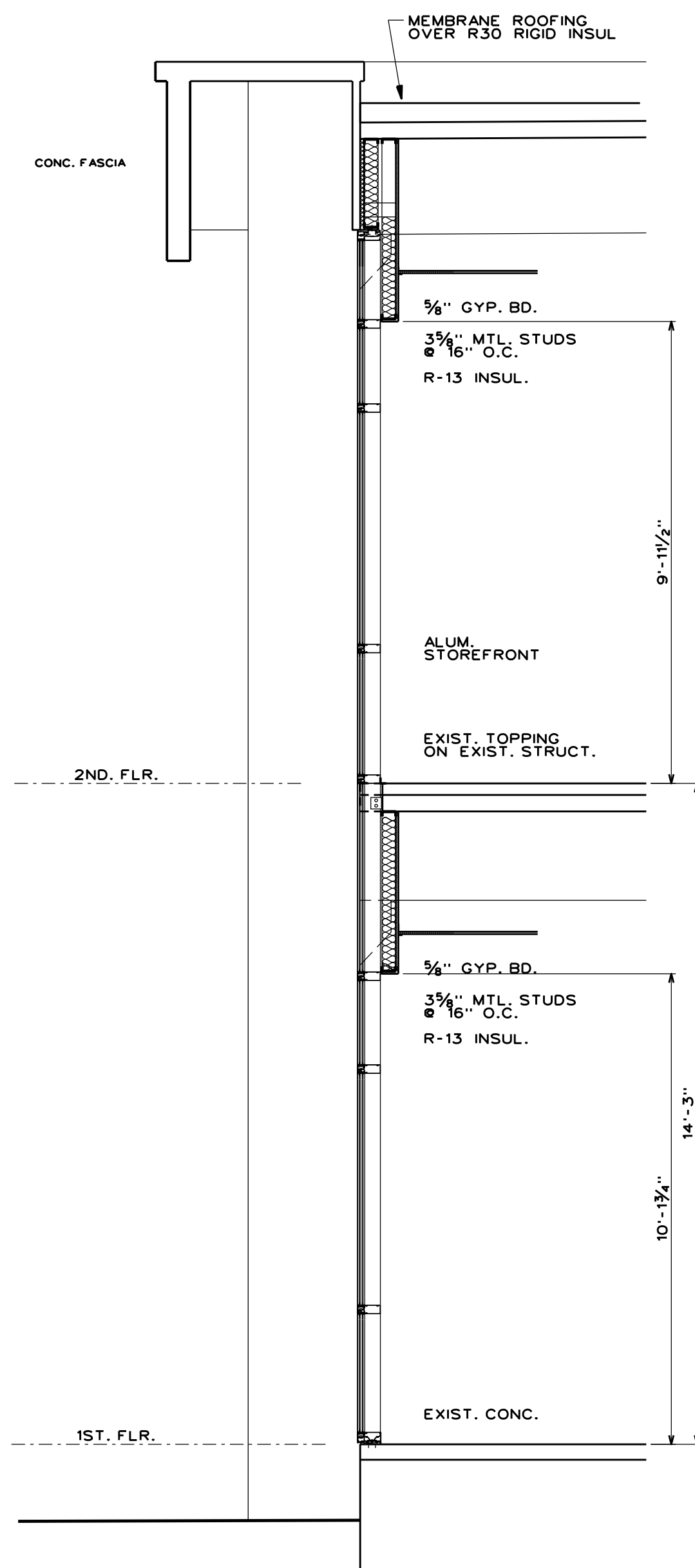




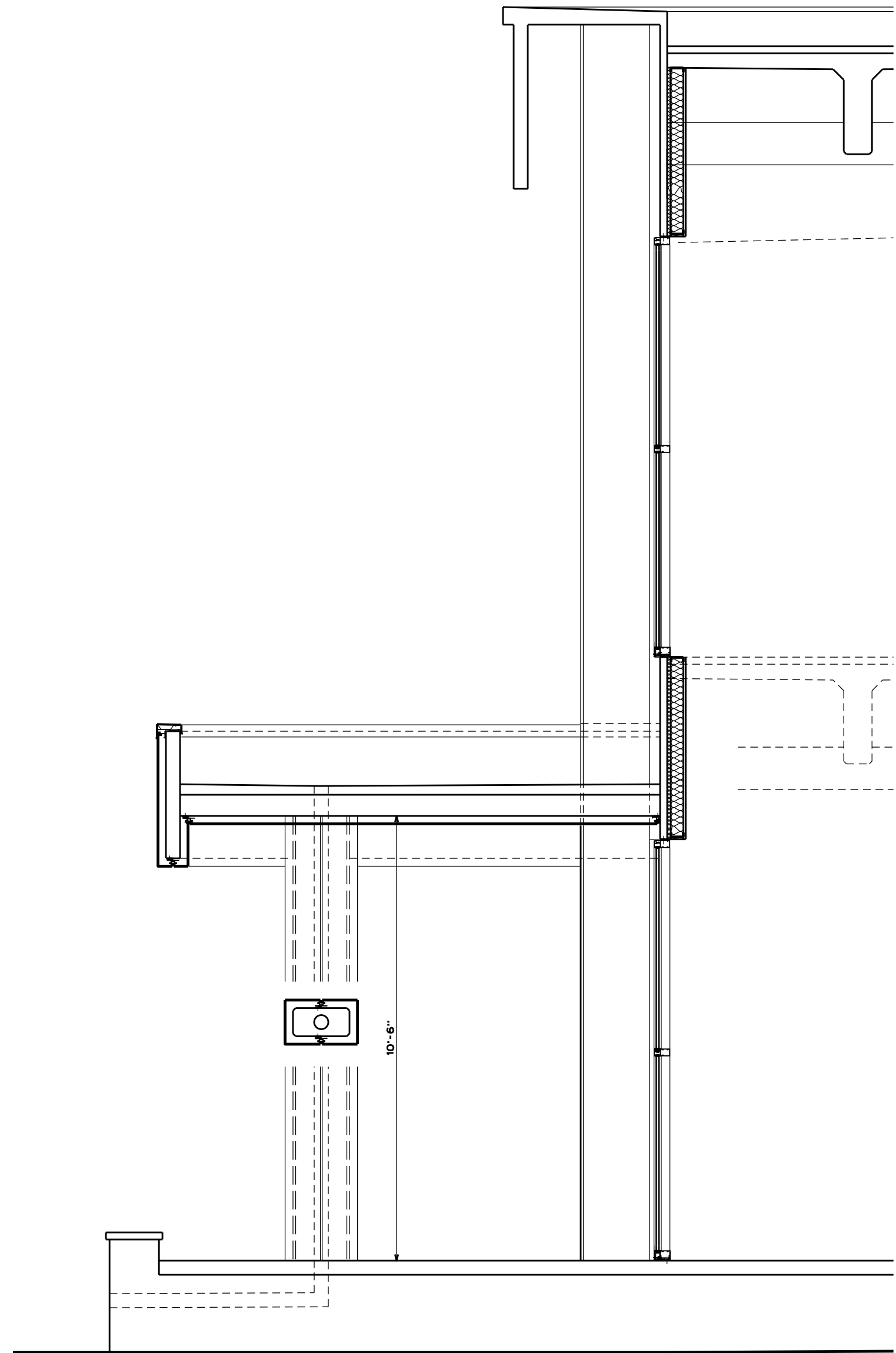
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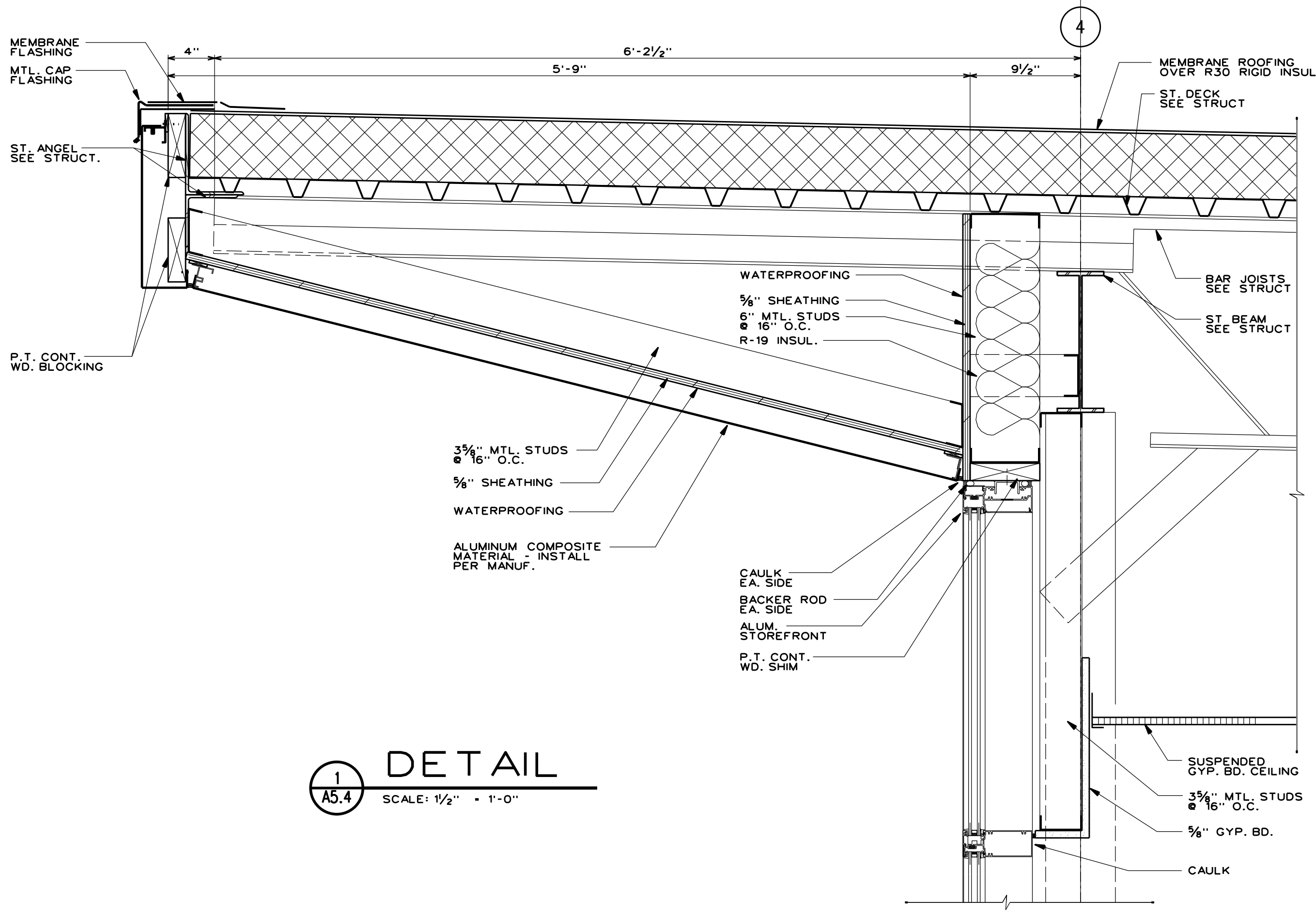


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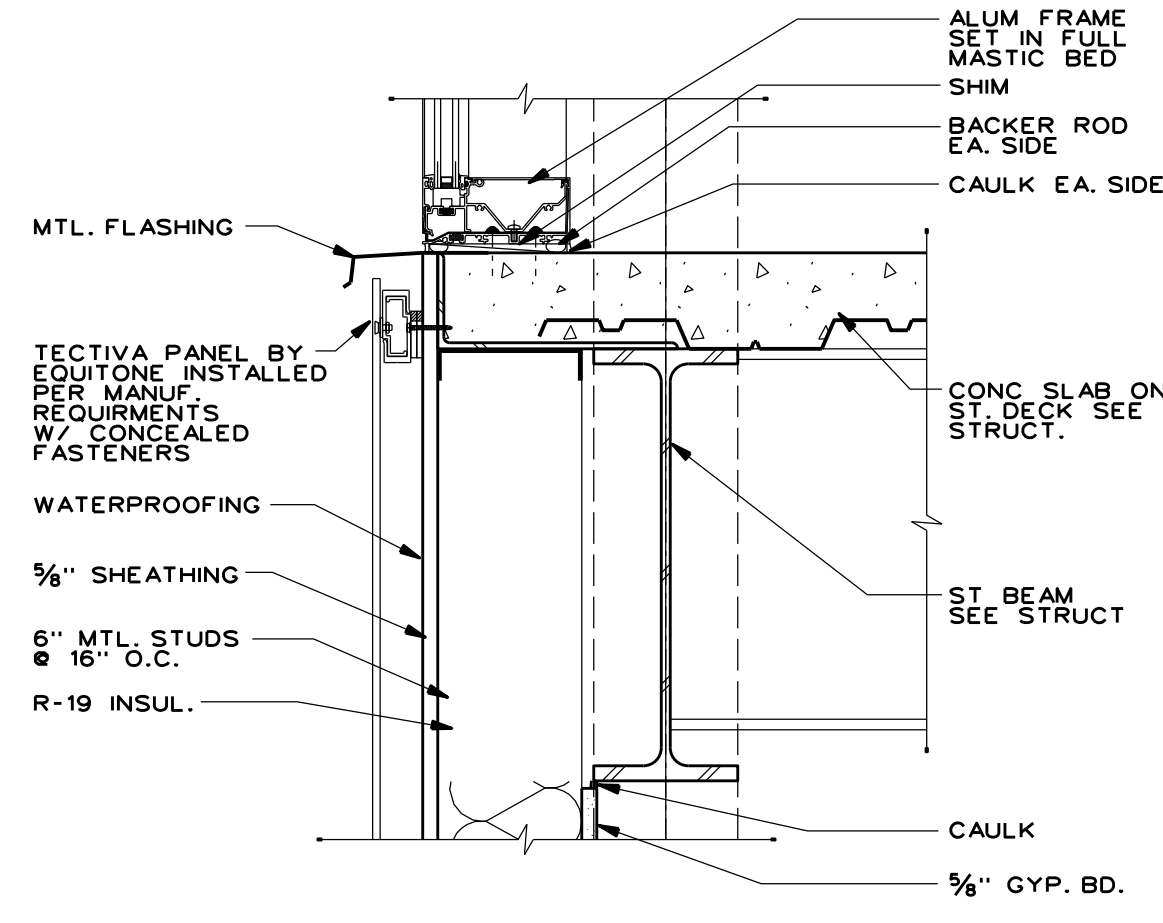
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WALL SECTIONS

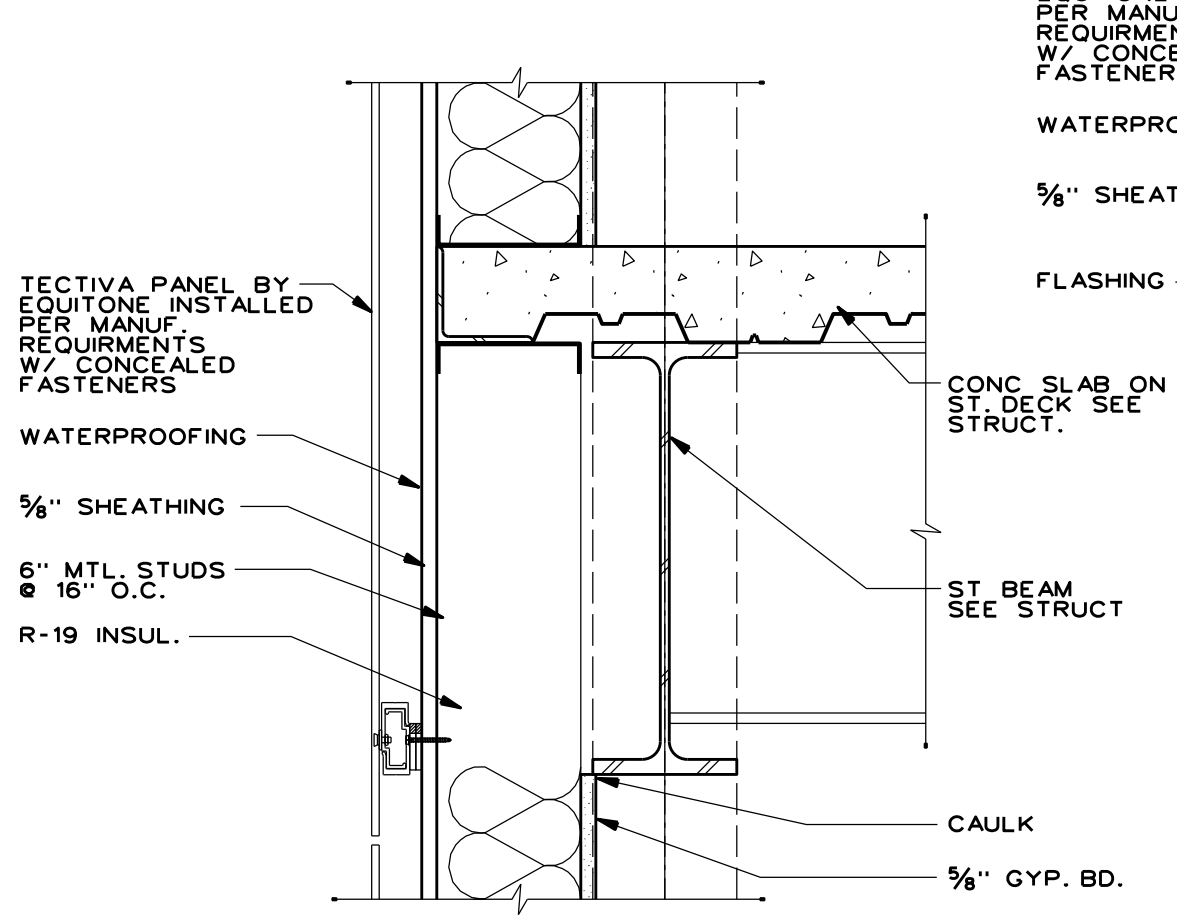
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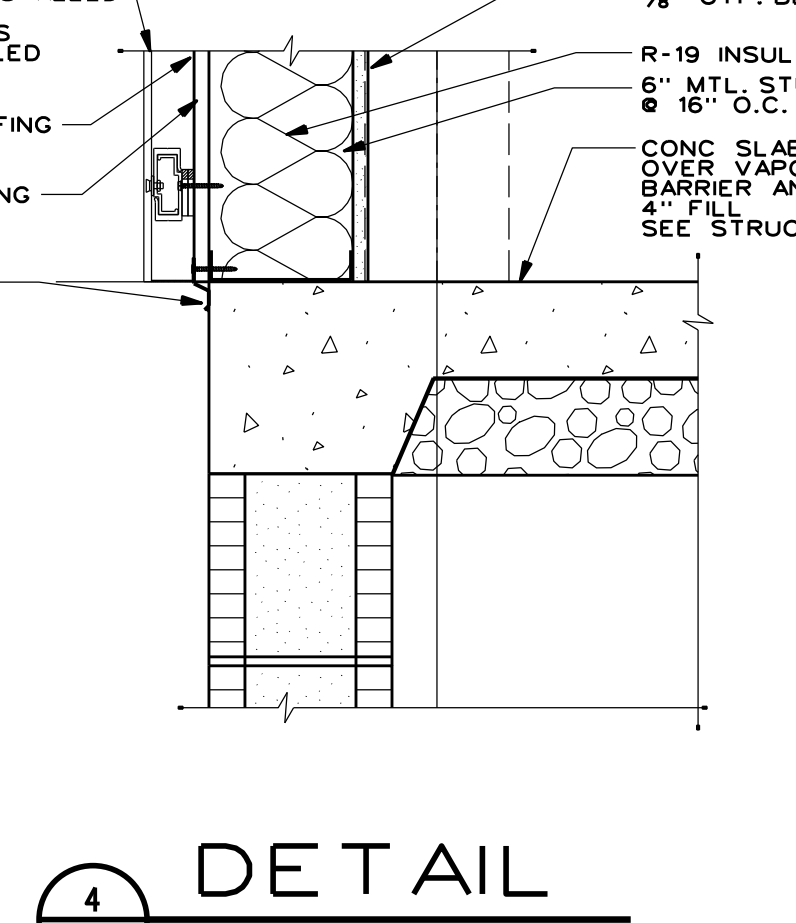
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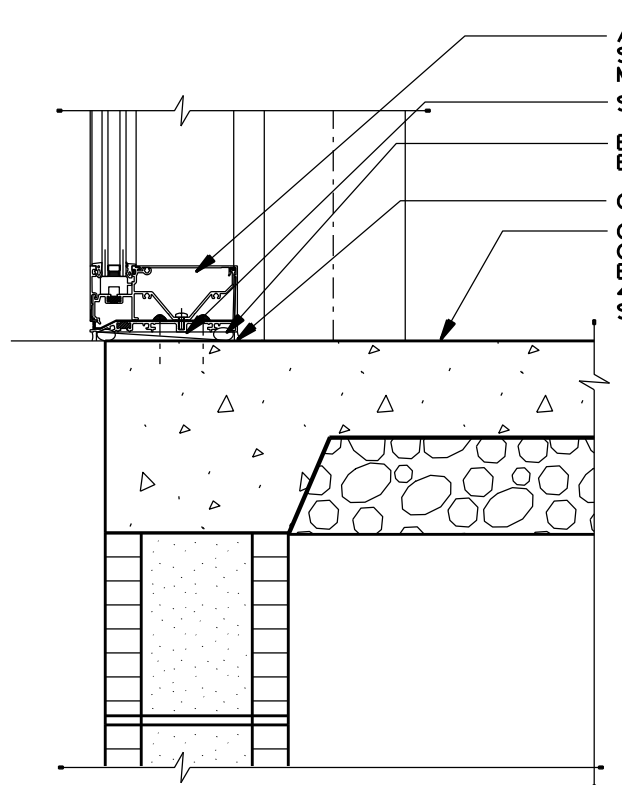
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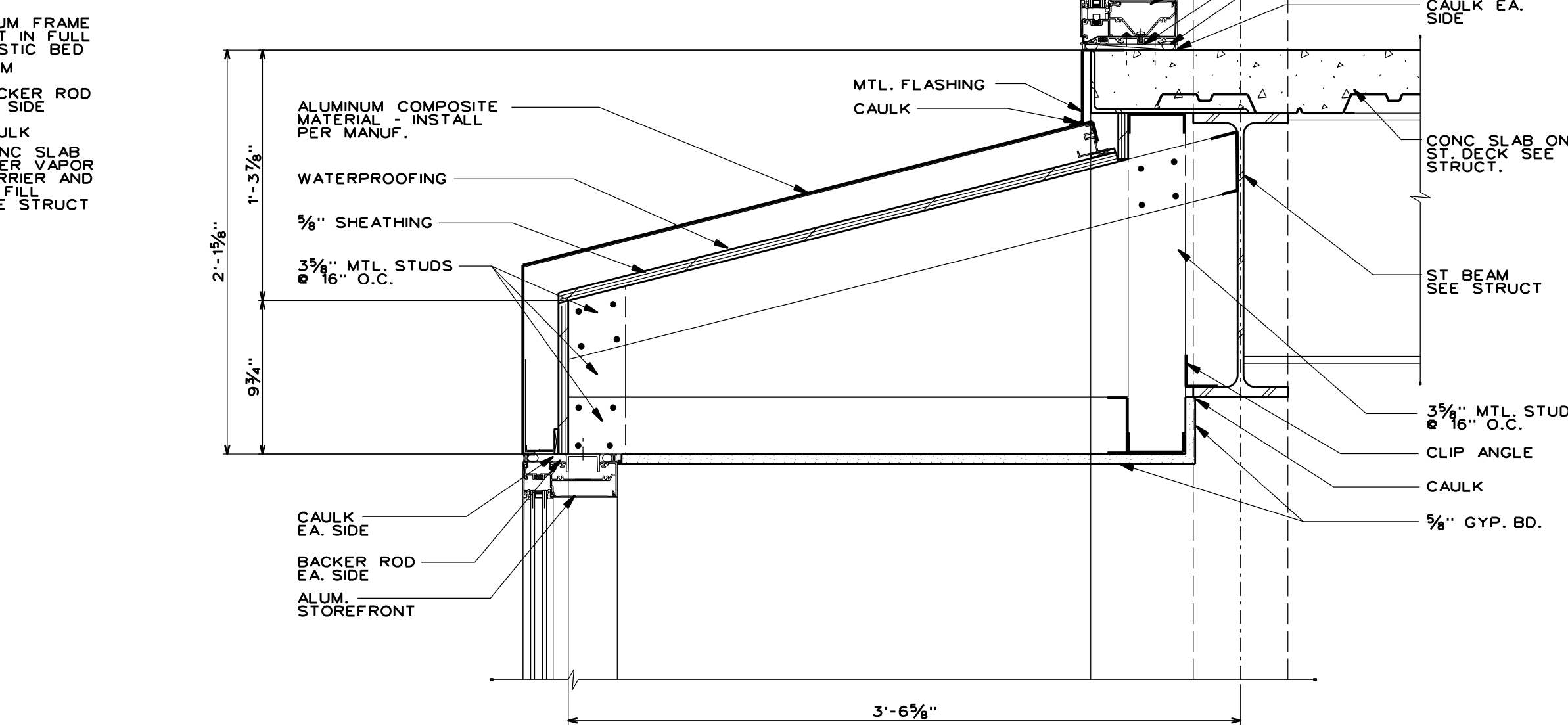
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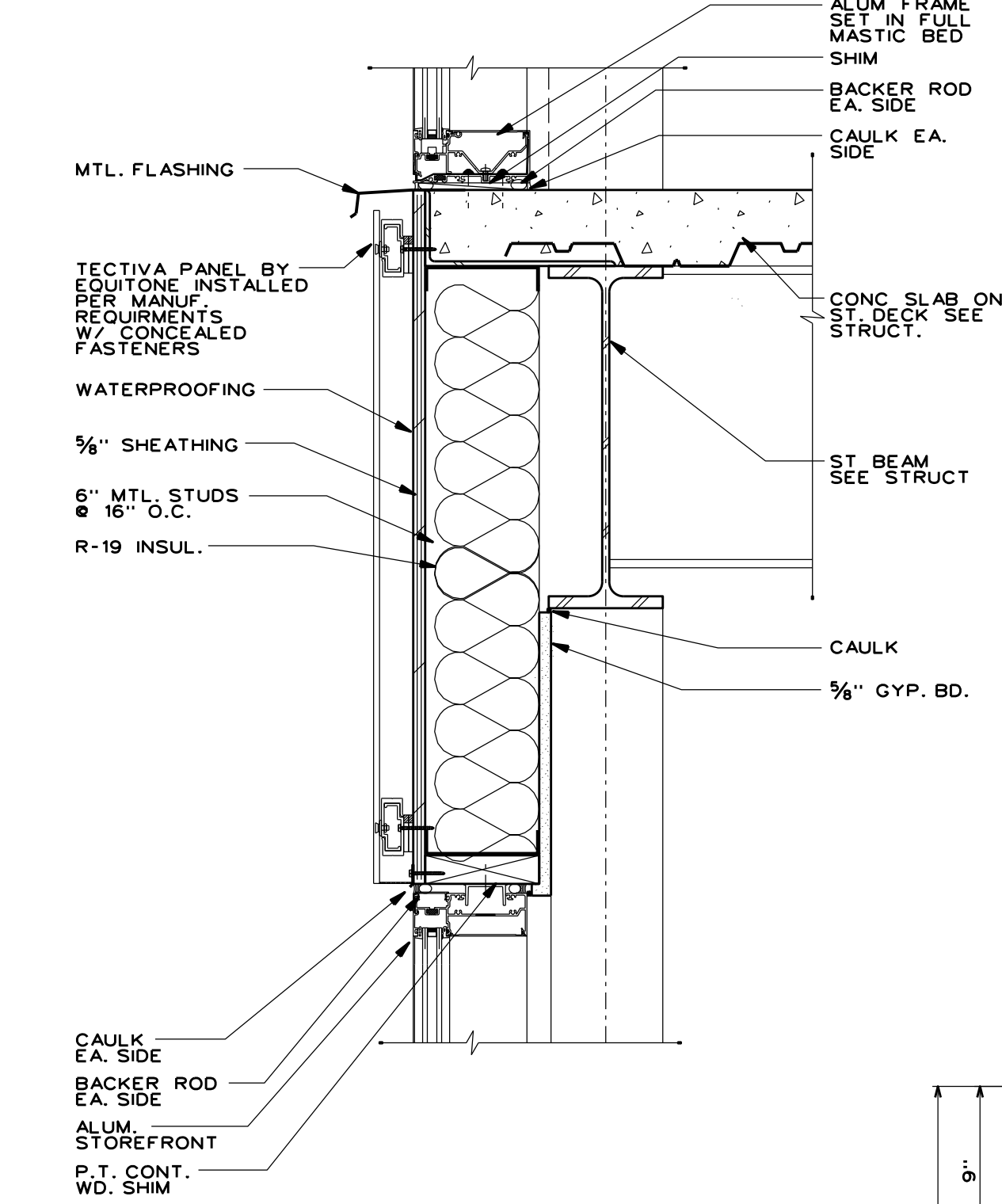
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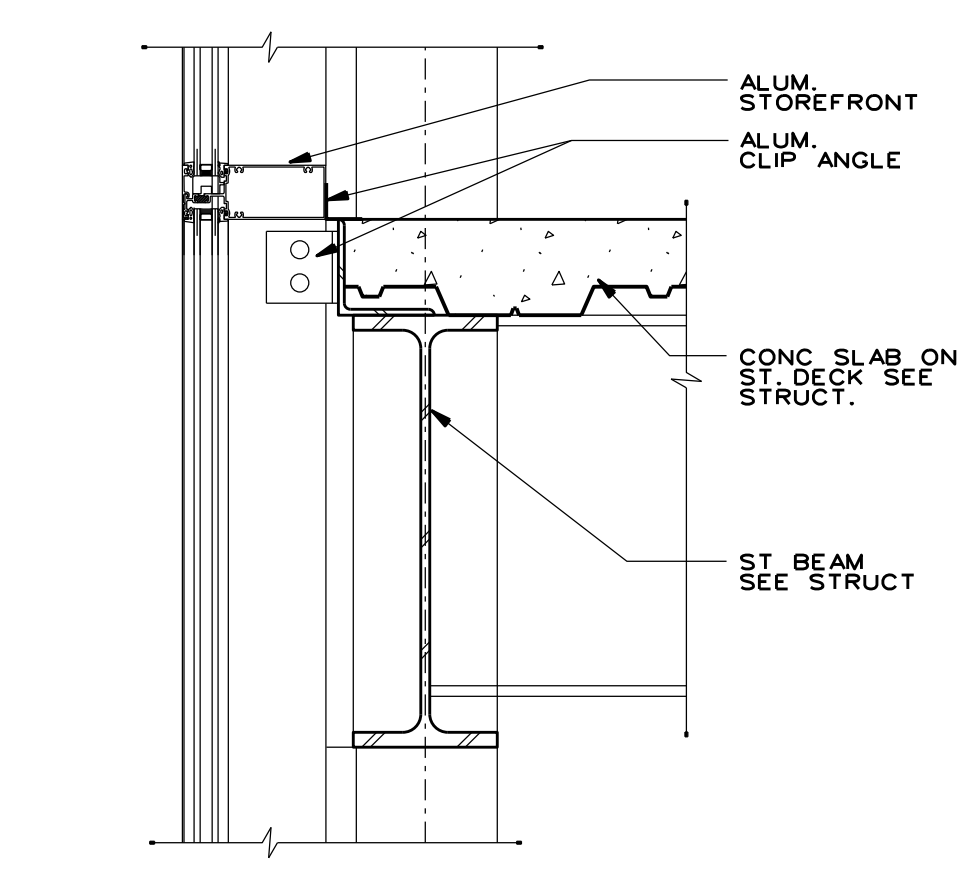
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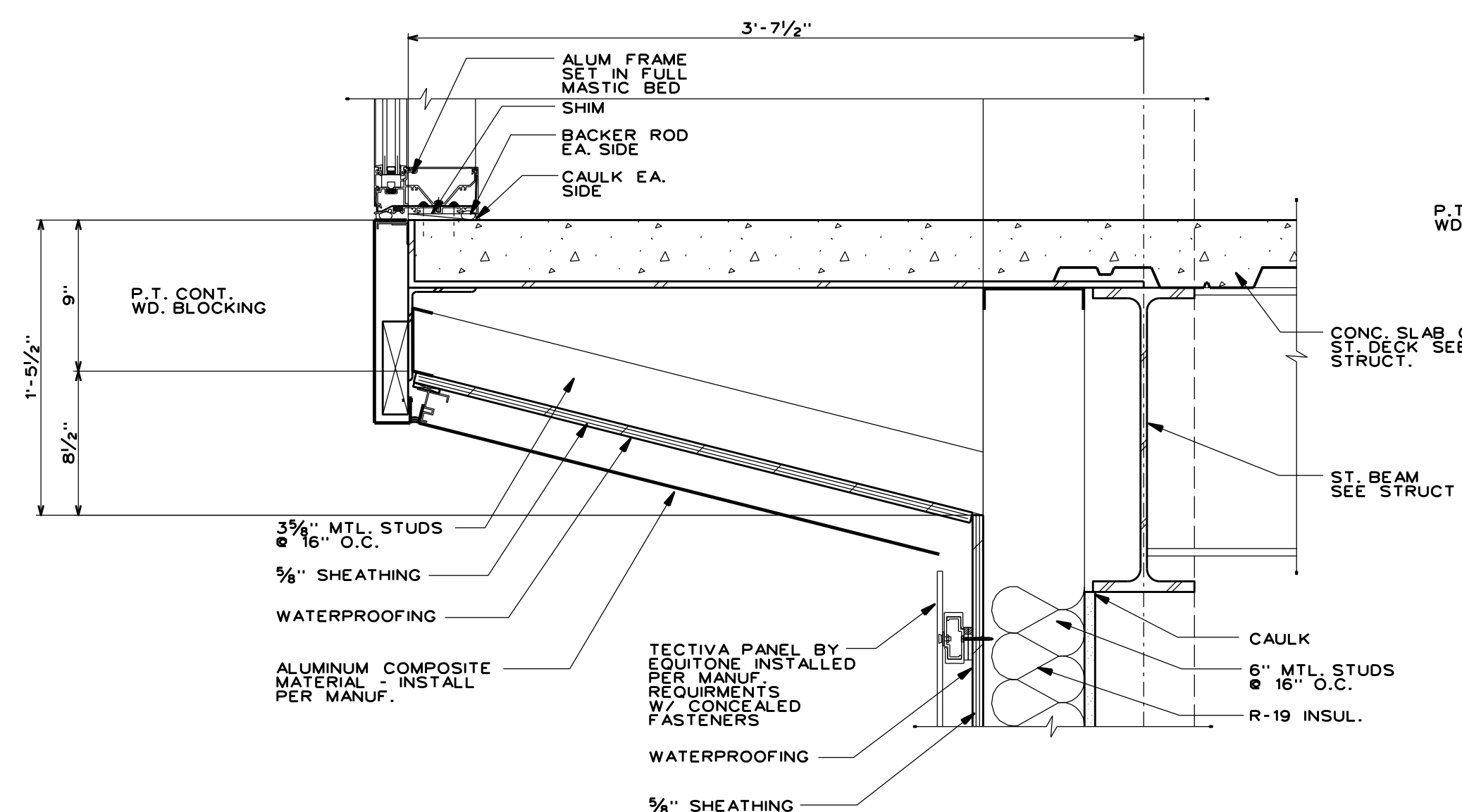
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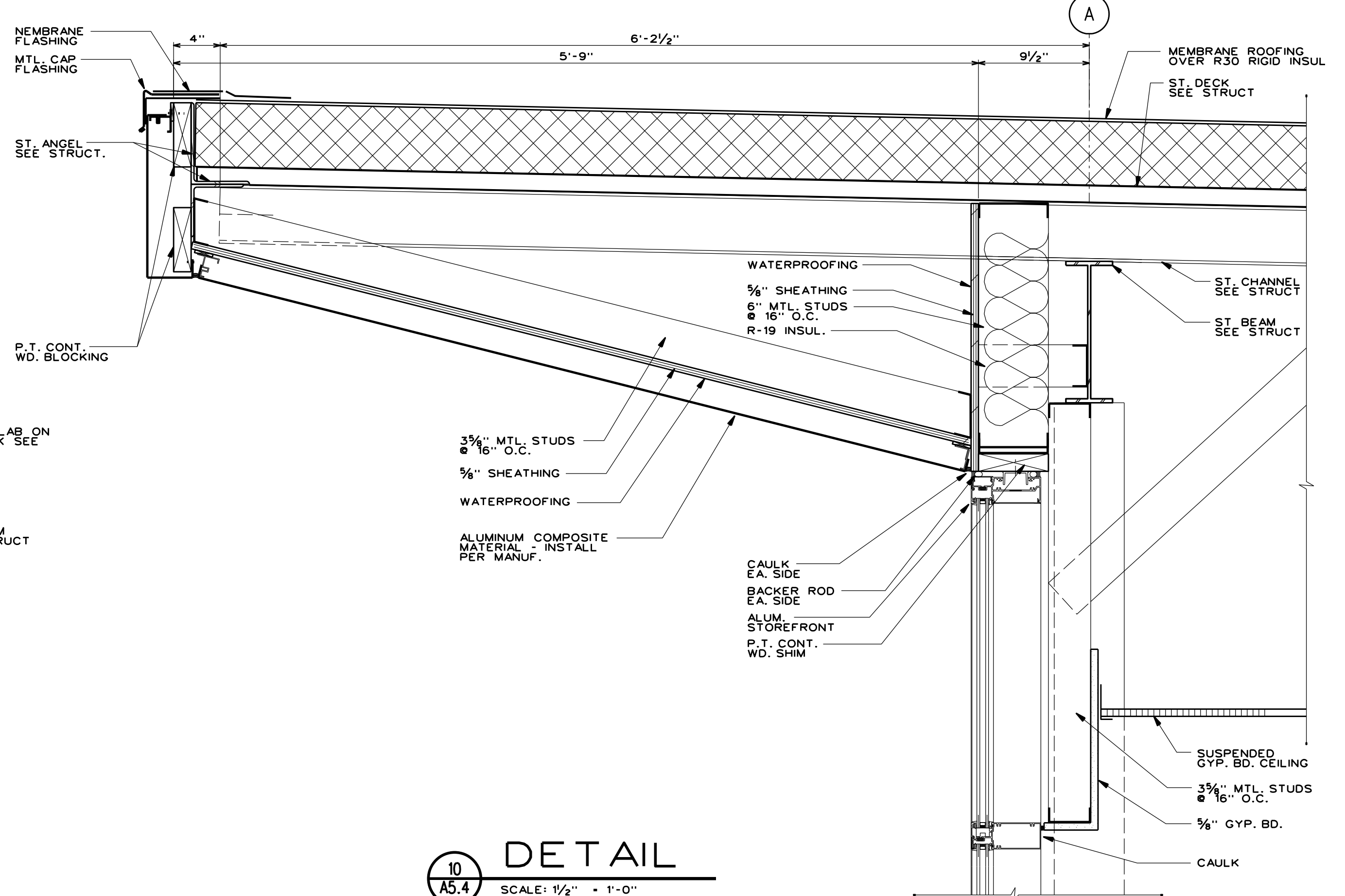
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8  
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SCALE: 1/2" = 1'-0"



9  
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SCALE: 1/2" = 1'-0"



10  
A5.4  
SCALE: 1/2" = 1'-0"

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DETAILS

Project #: 2229      Date: 4/18/2025

A5.4

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1  
A6.1



2  
A6.1



3  
A6.1



4  
A6.1



5  
A6.1

ELEVATOR SECTION

SCALE:  $\frac{3}{8}" = 1'-0"$



A6.1 SCALE: 1" = 1'-0"



A6.1 SCALE: 1" = 1'-0"



A6.1 SCALE: 1" = 1'-0"



A6.1 SCALE: 1" = 1'-



10  
A6.1

LADDER DETAIL

SCALE: 1" = 1'-0"



11  
A6.1

LADDER DETAIL

SCALE: 1" = 1'-0"

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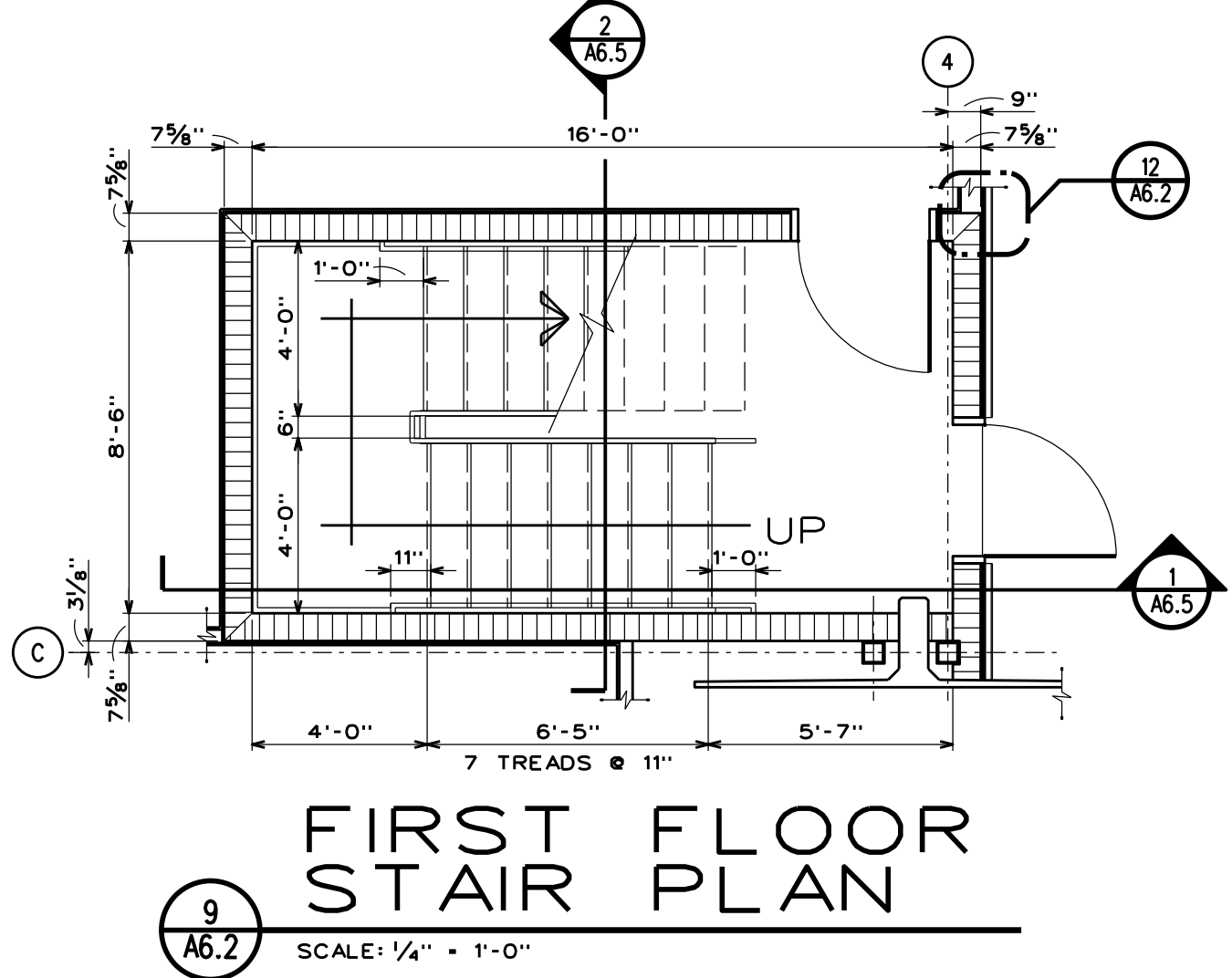
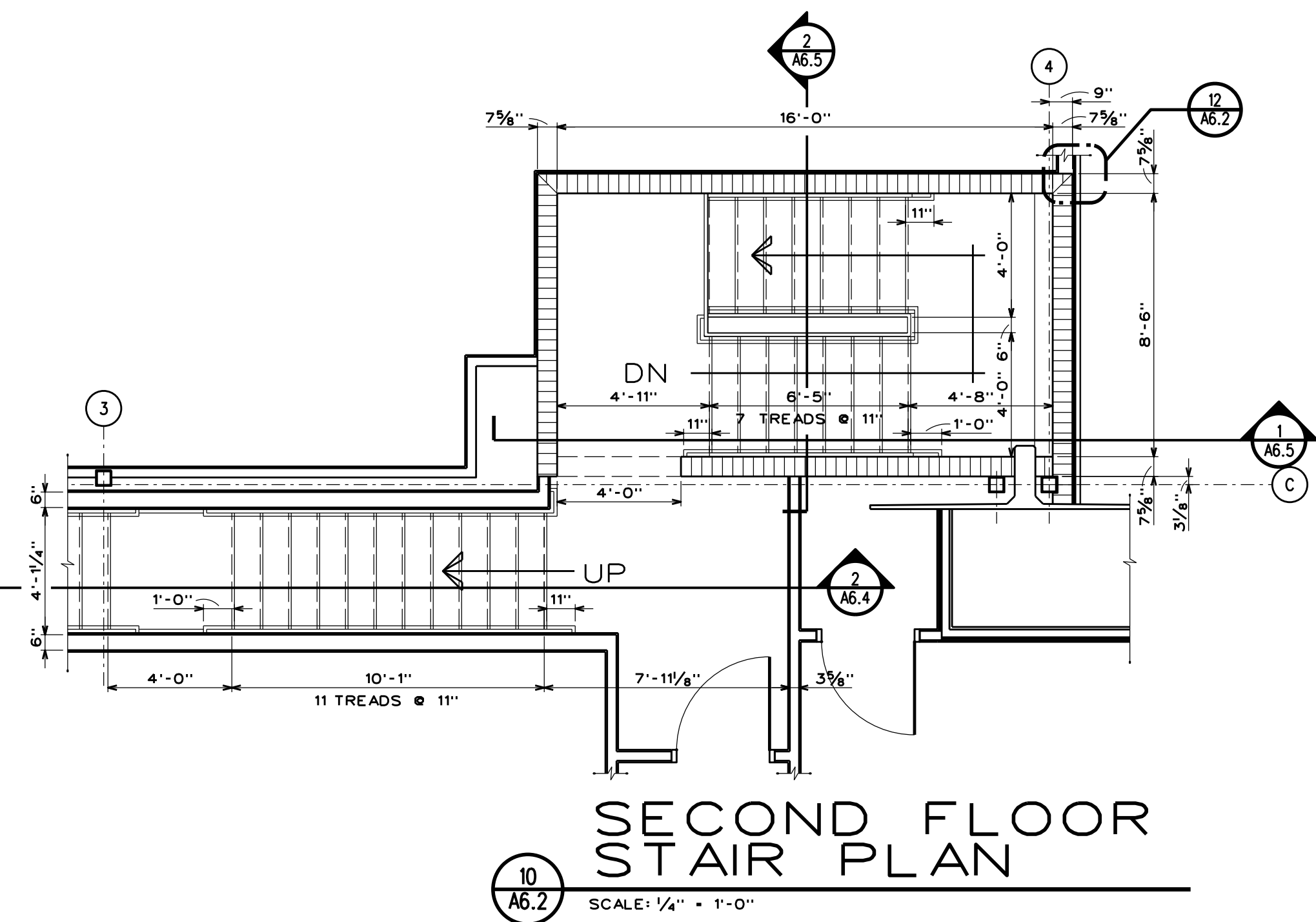
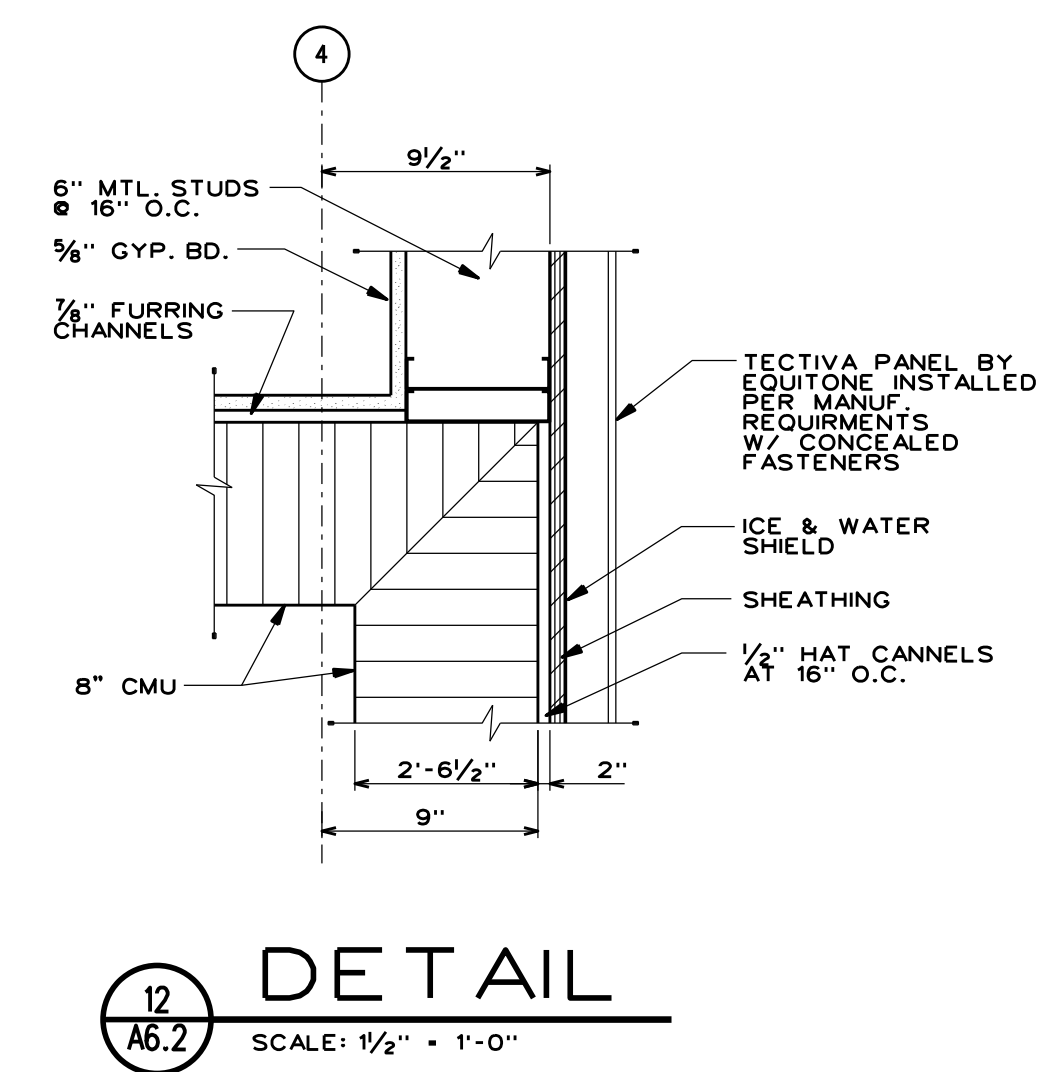
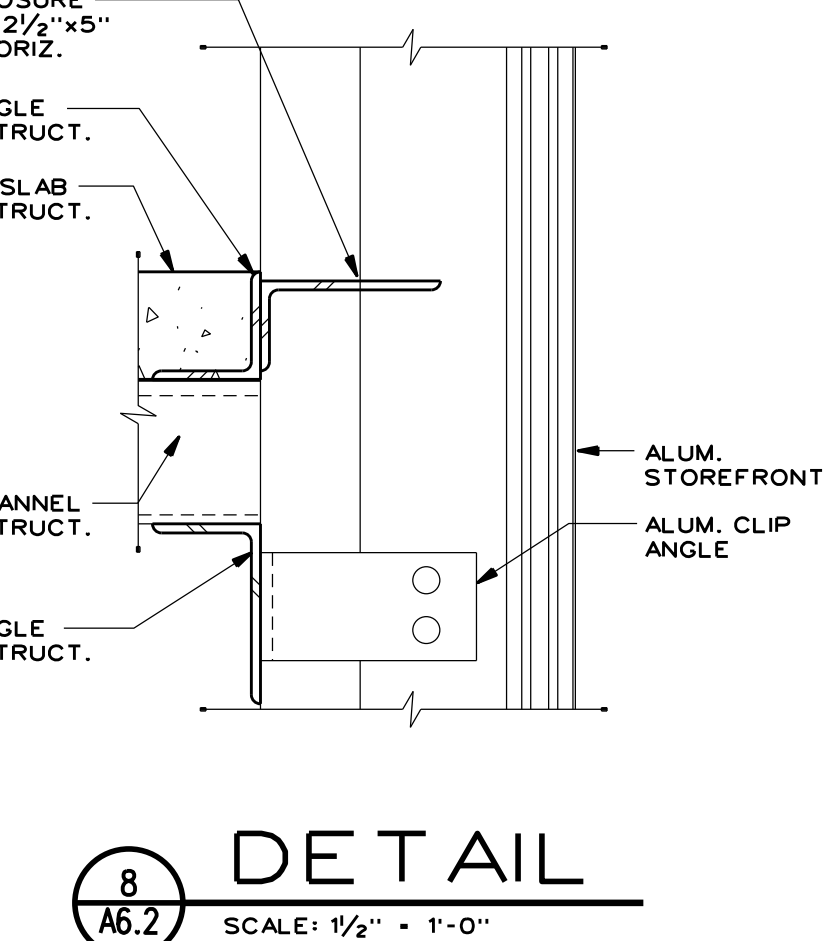
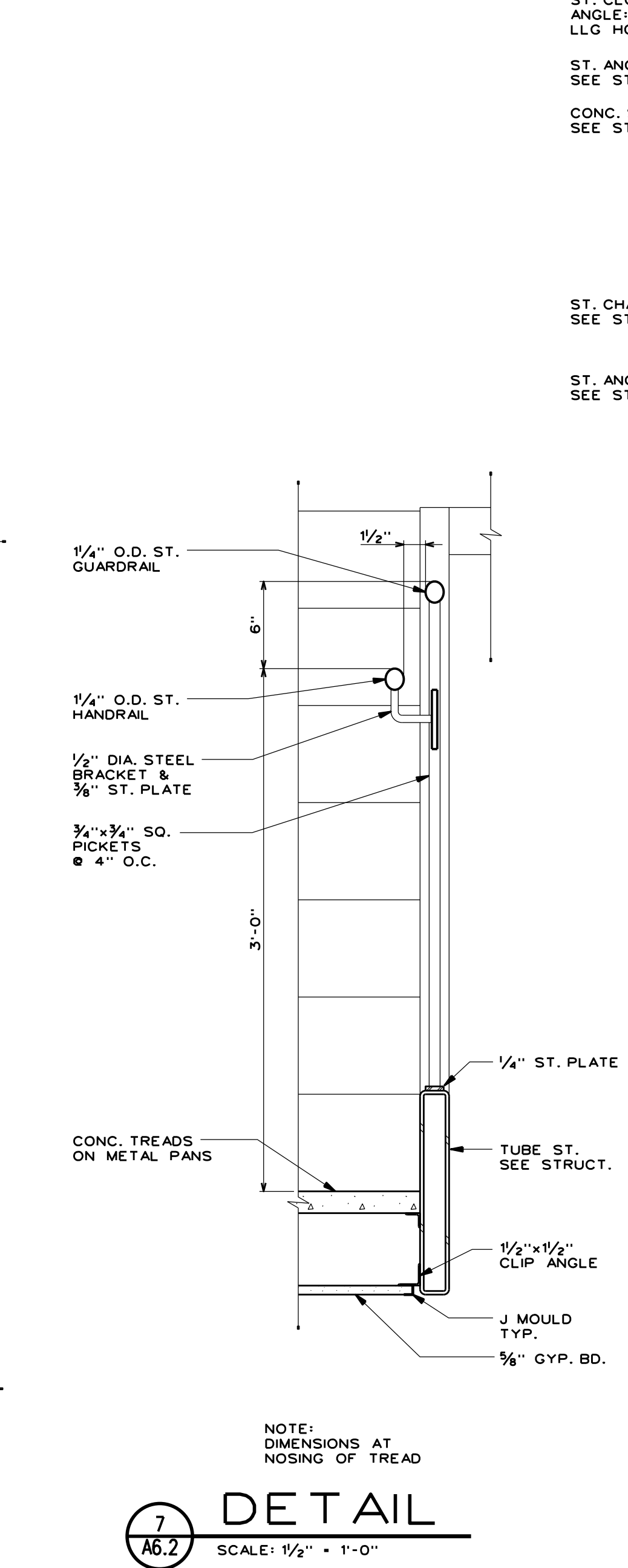
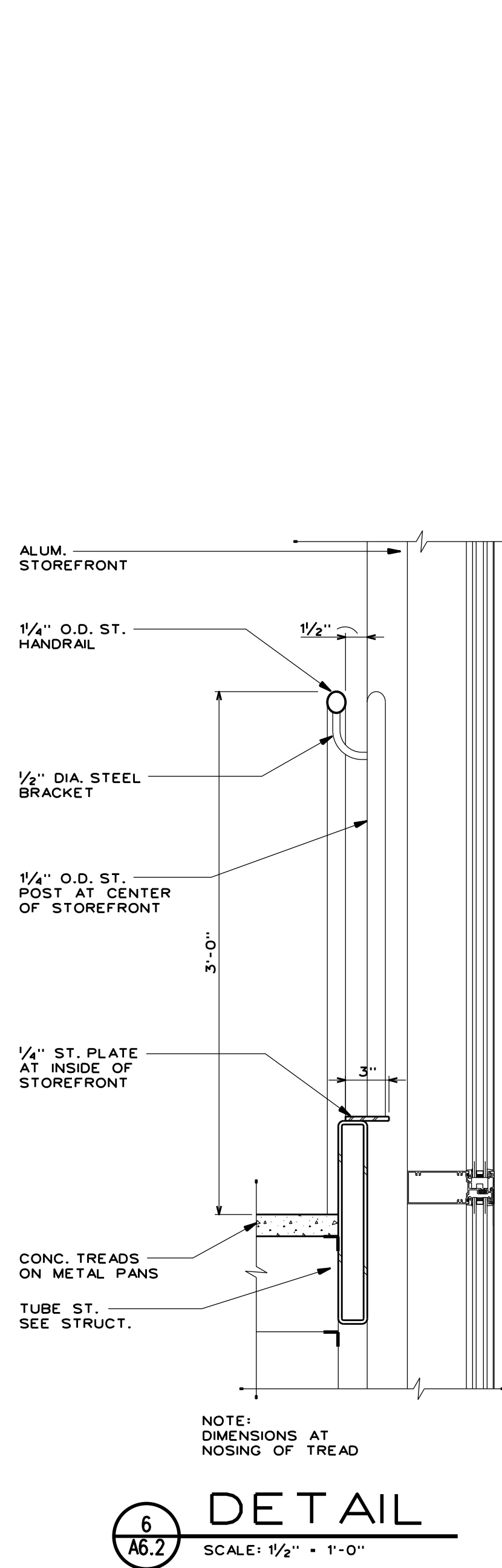
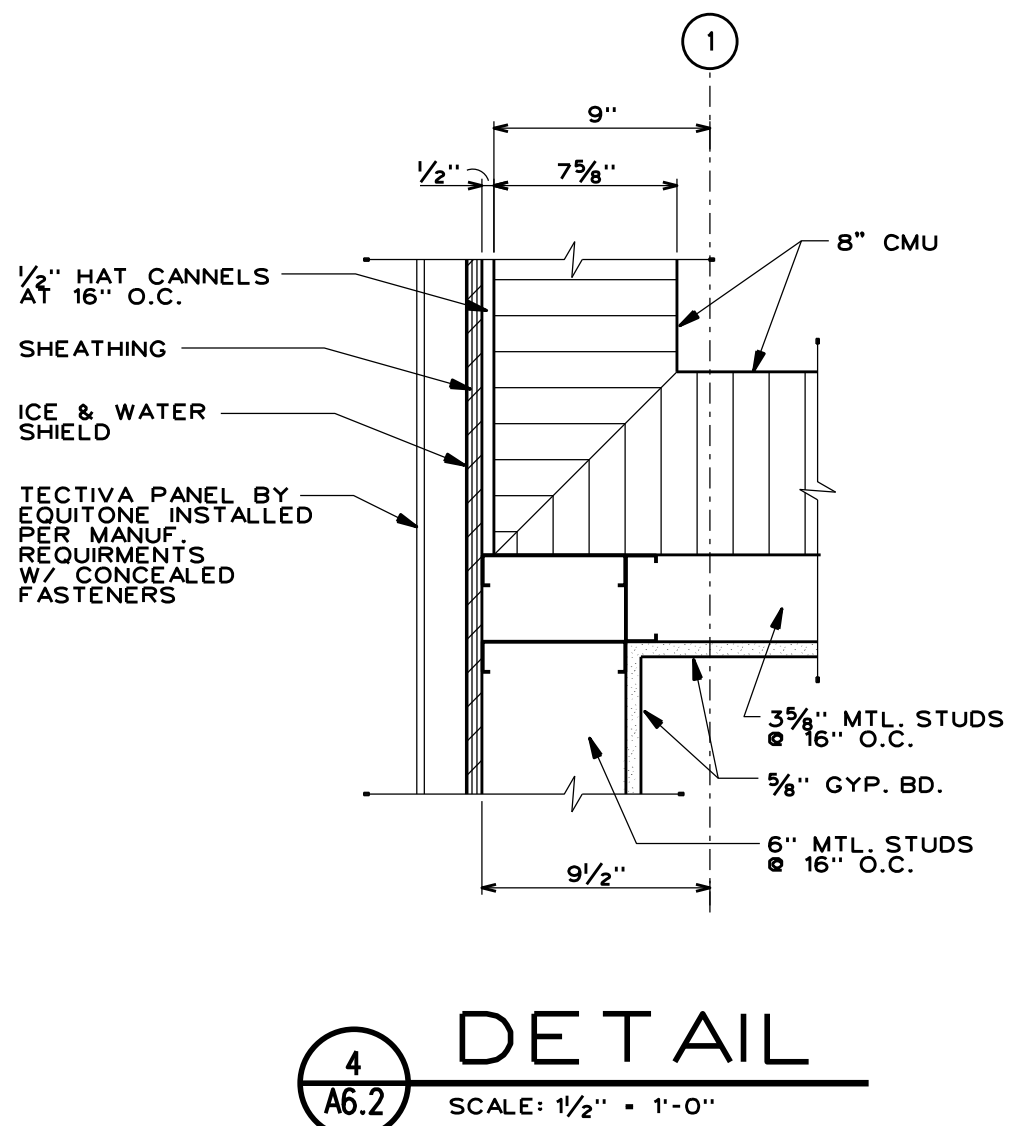
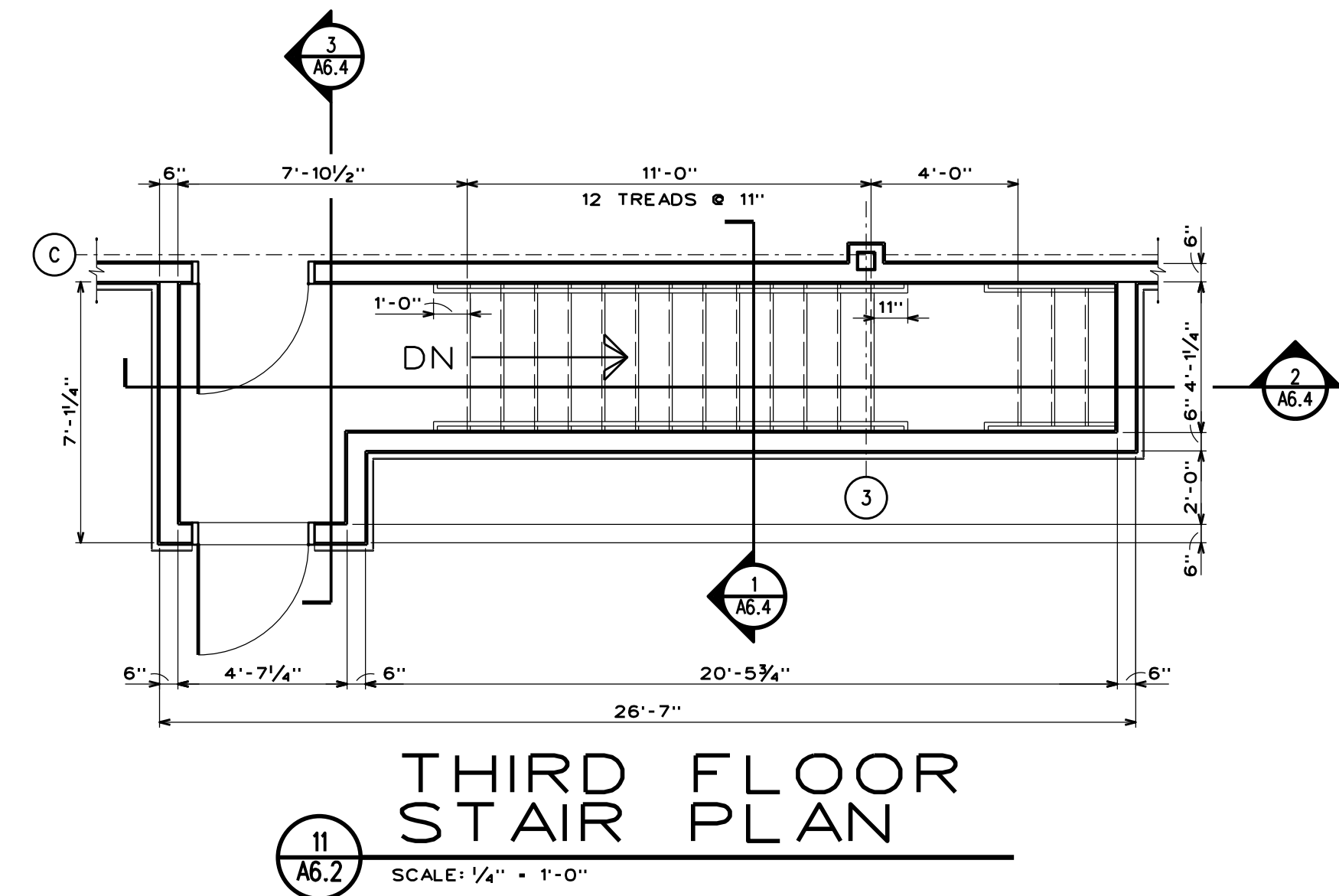
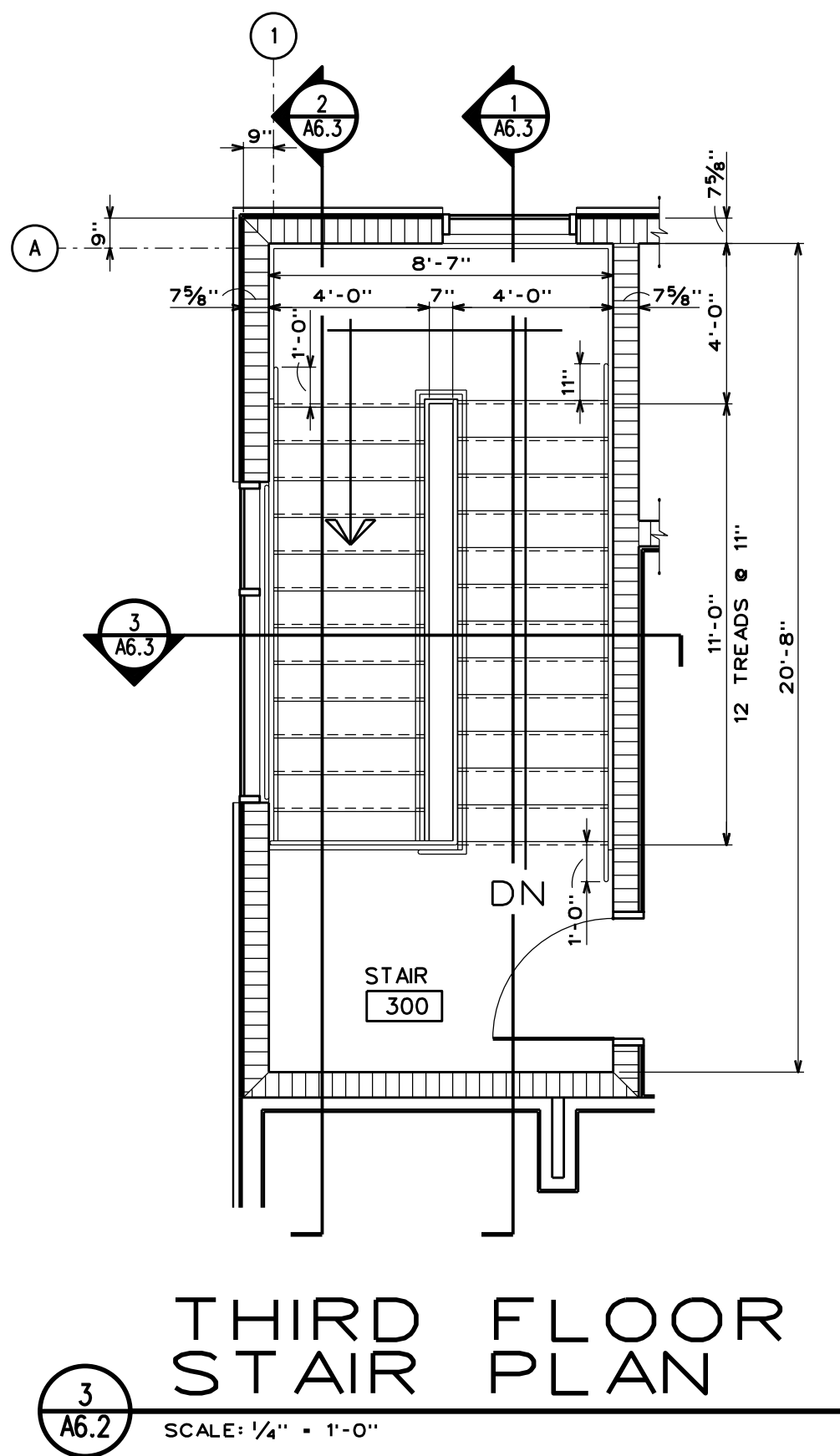
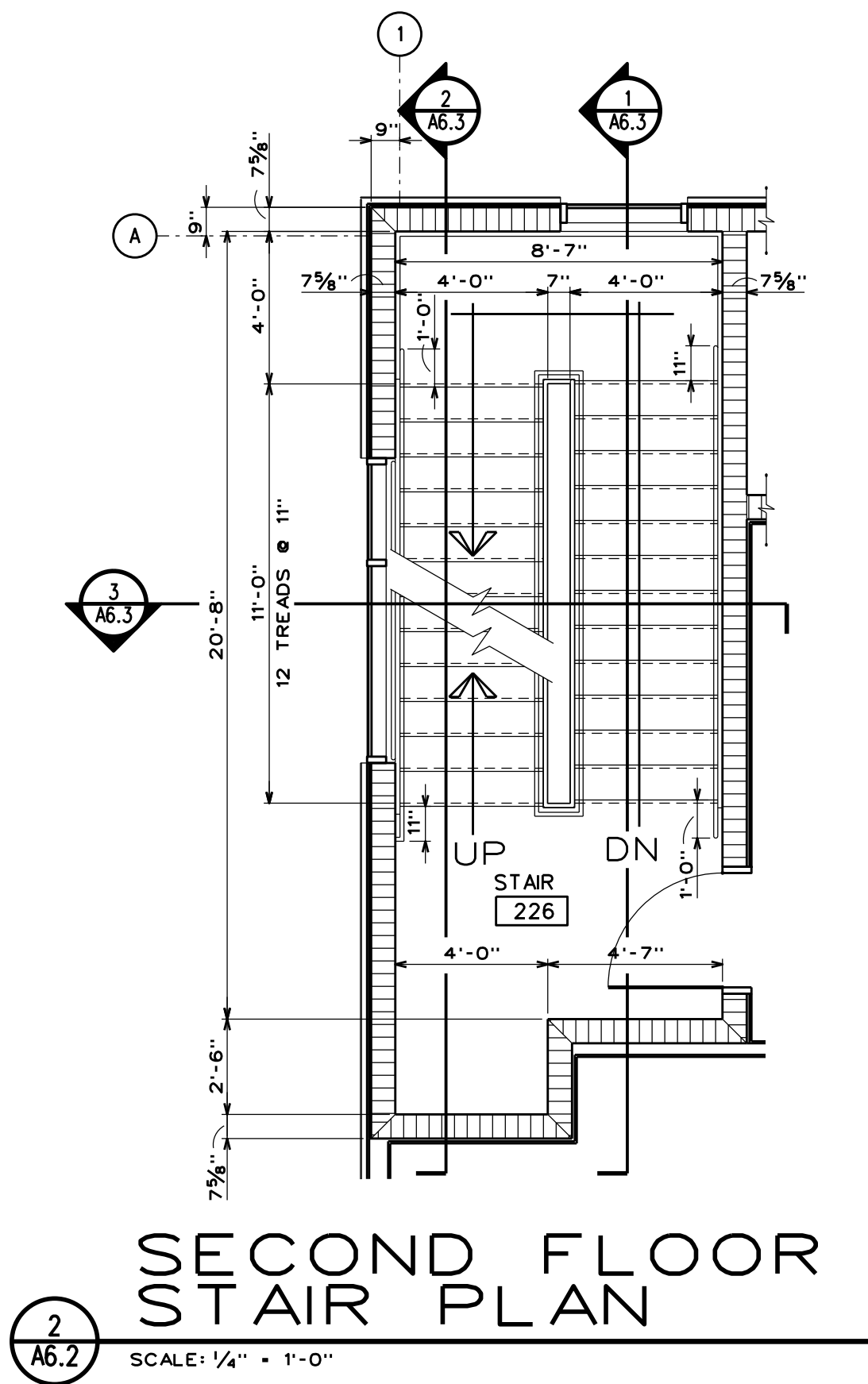
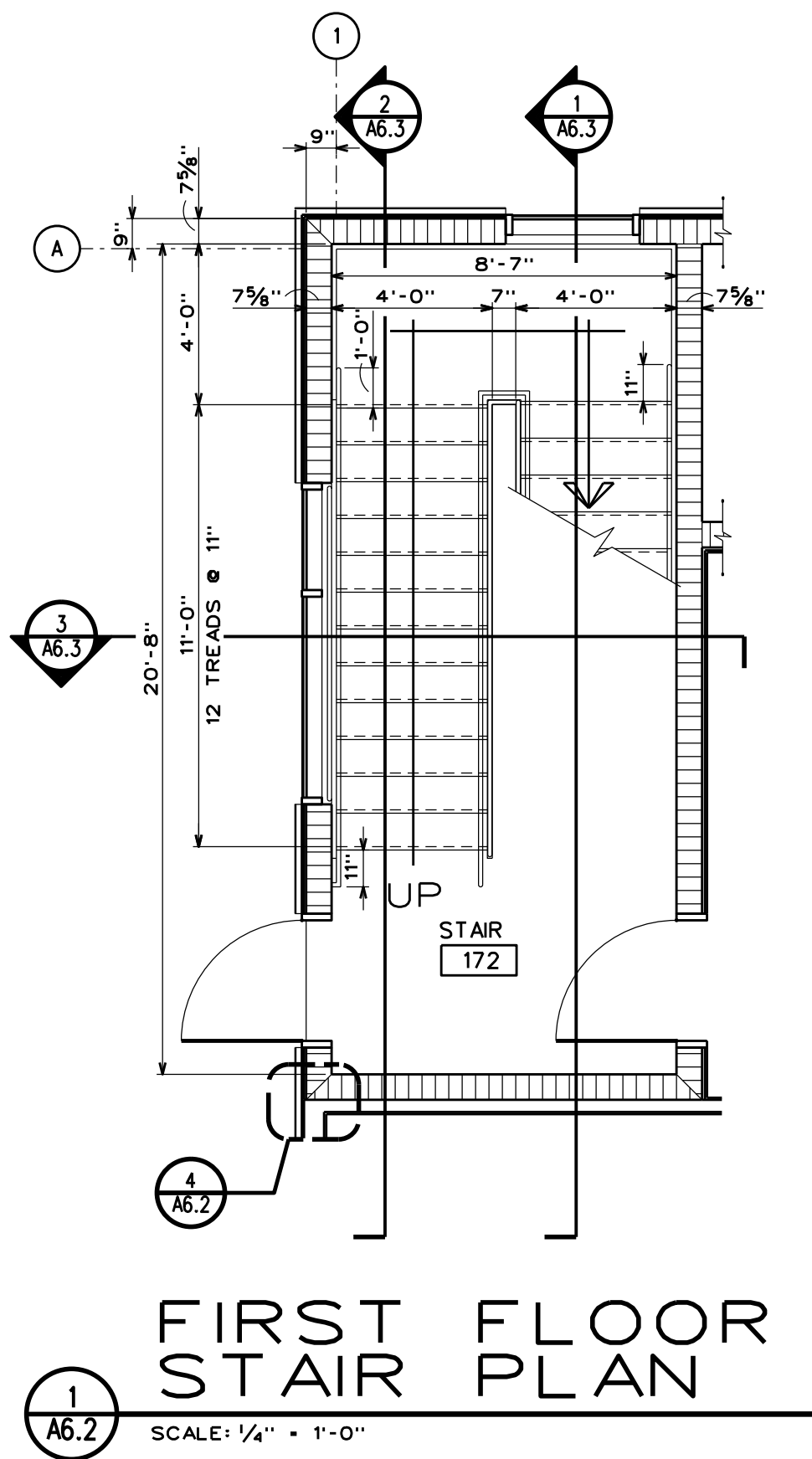
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**Sheet Title:**  
ELEVATOR PLANS,  
SECTION AND  
DETAILS

Project #: 2229 Date: 4/18/2025

## A6.1



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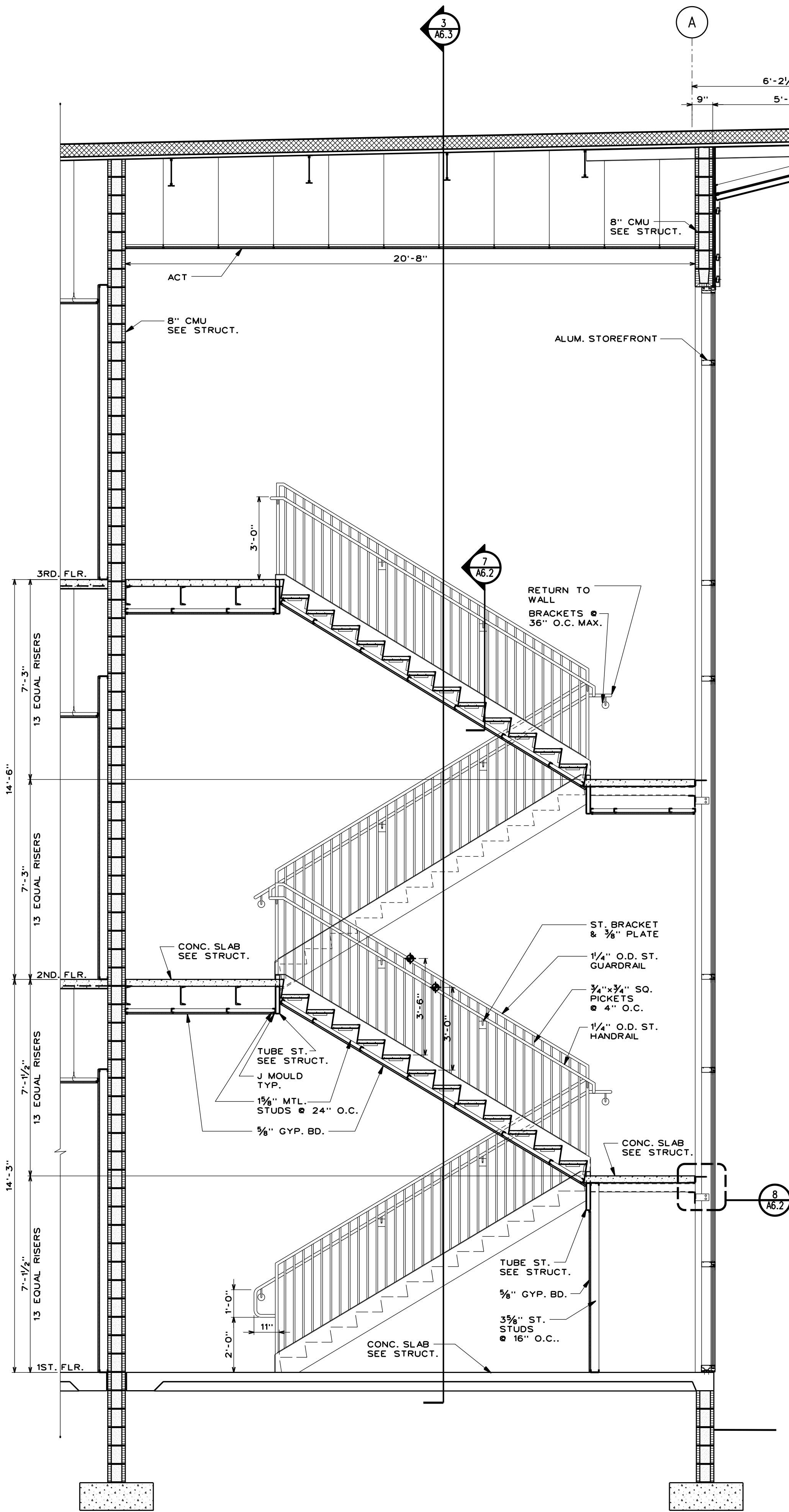
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Sheet Title:  
STAIR PLANS AND  
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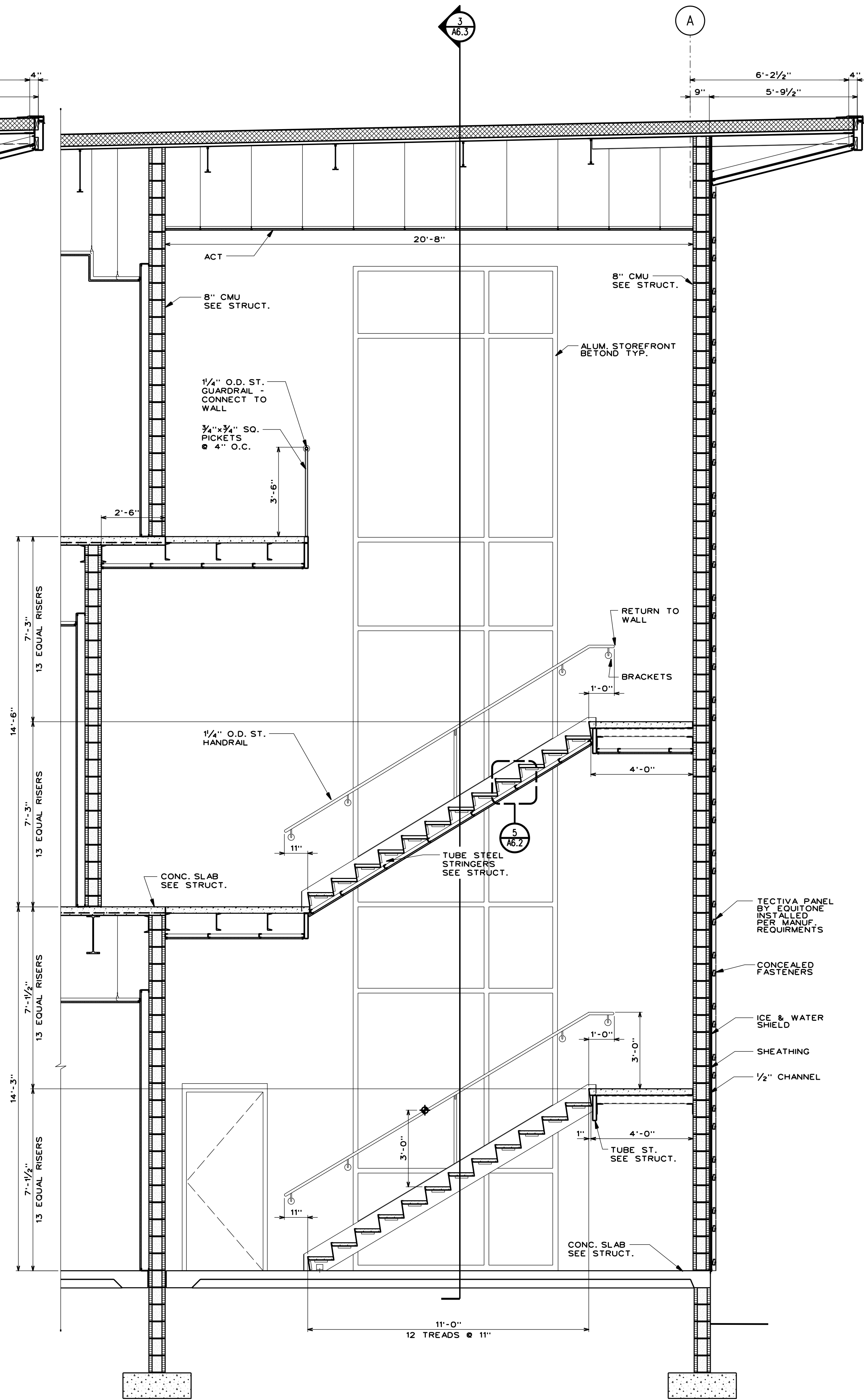
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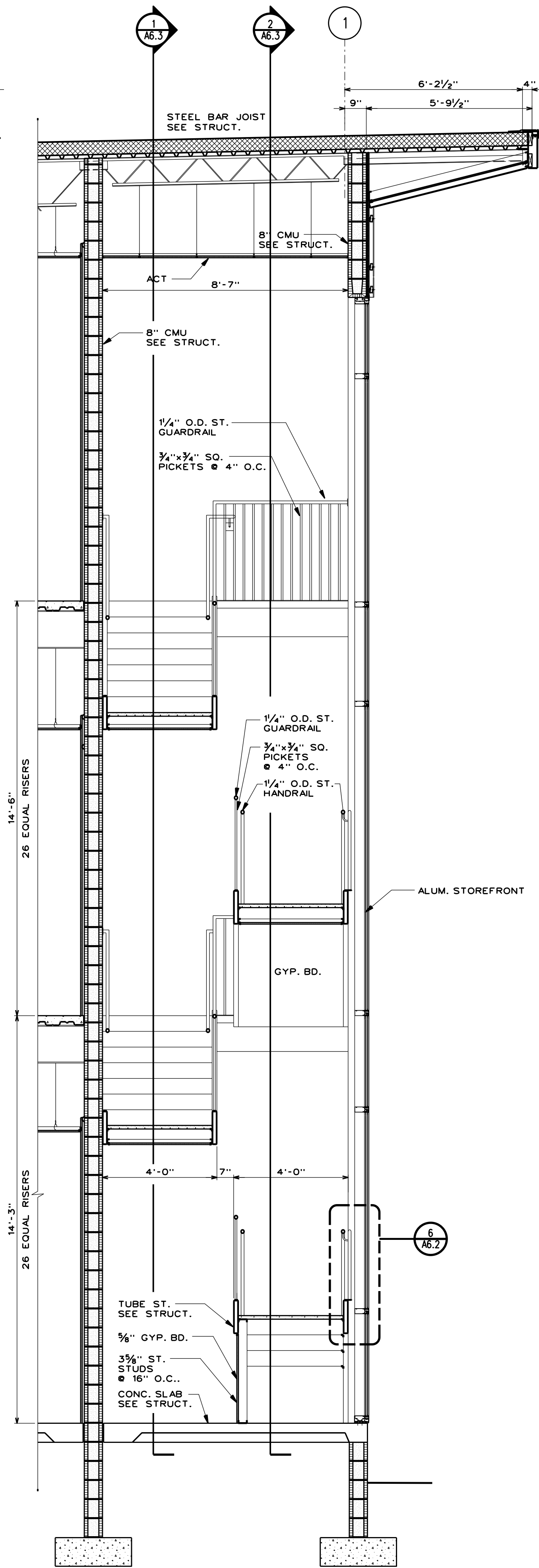




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SCALE: 3/8" = 1'-0"



2 STAIR SECTION  
SCALE: 3/8" = 1'-0"



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

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STAIRS SECTIONS

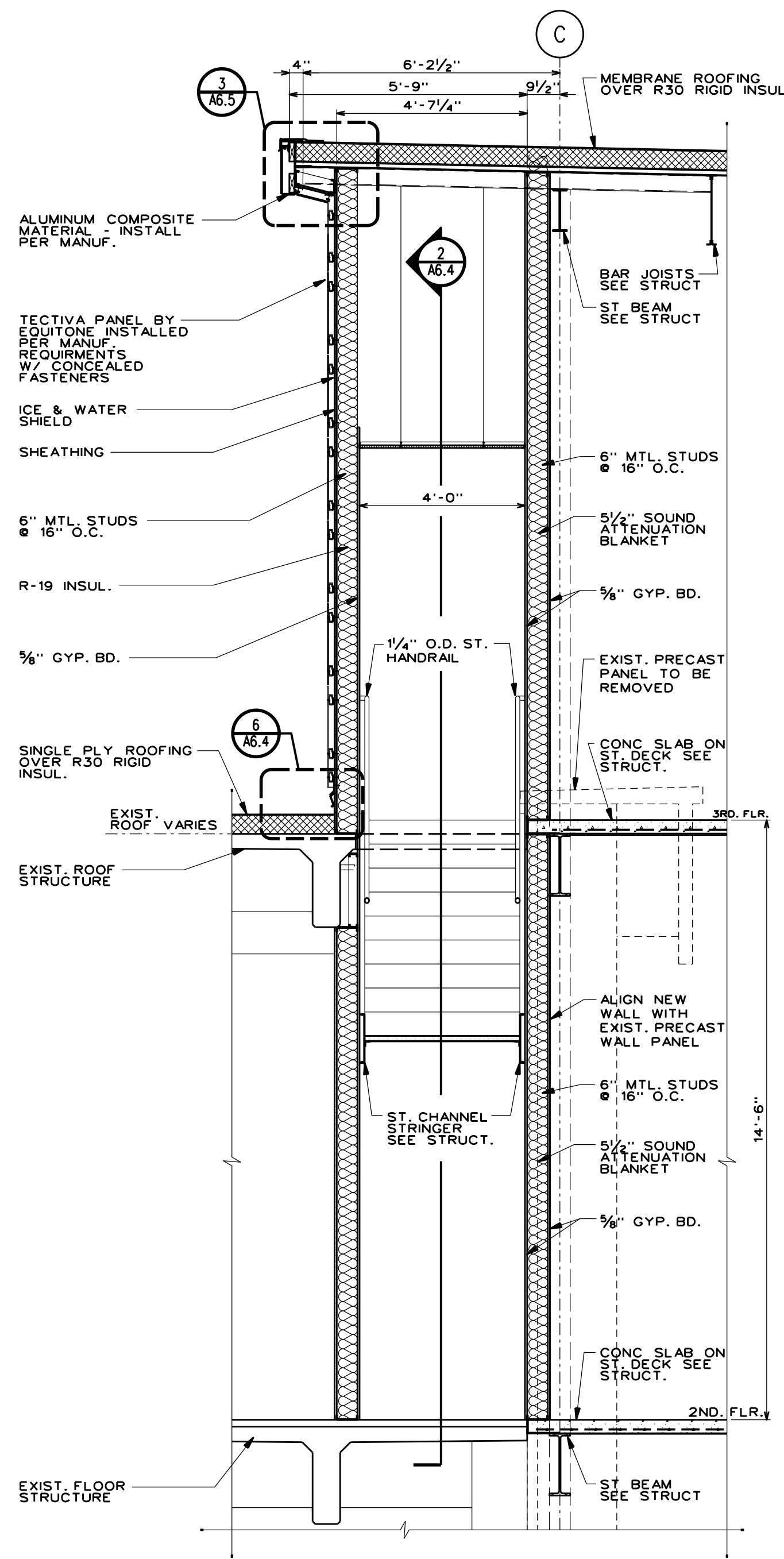
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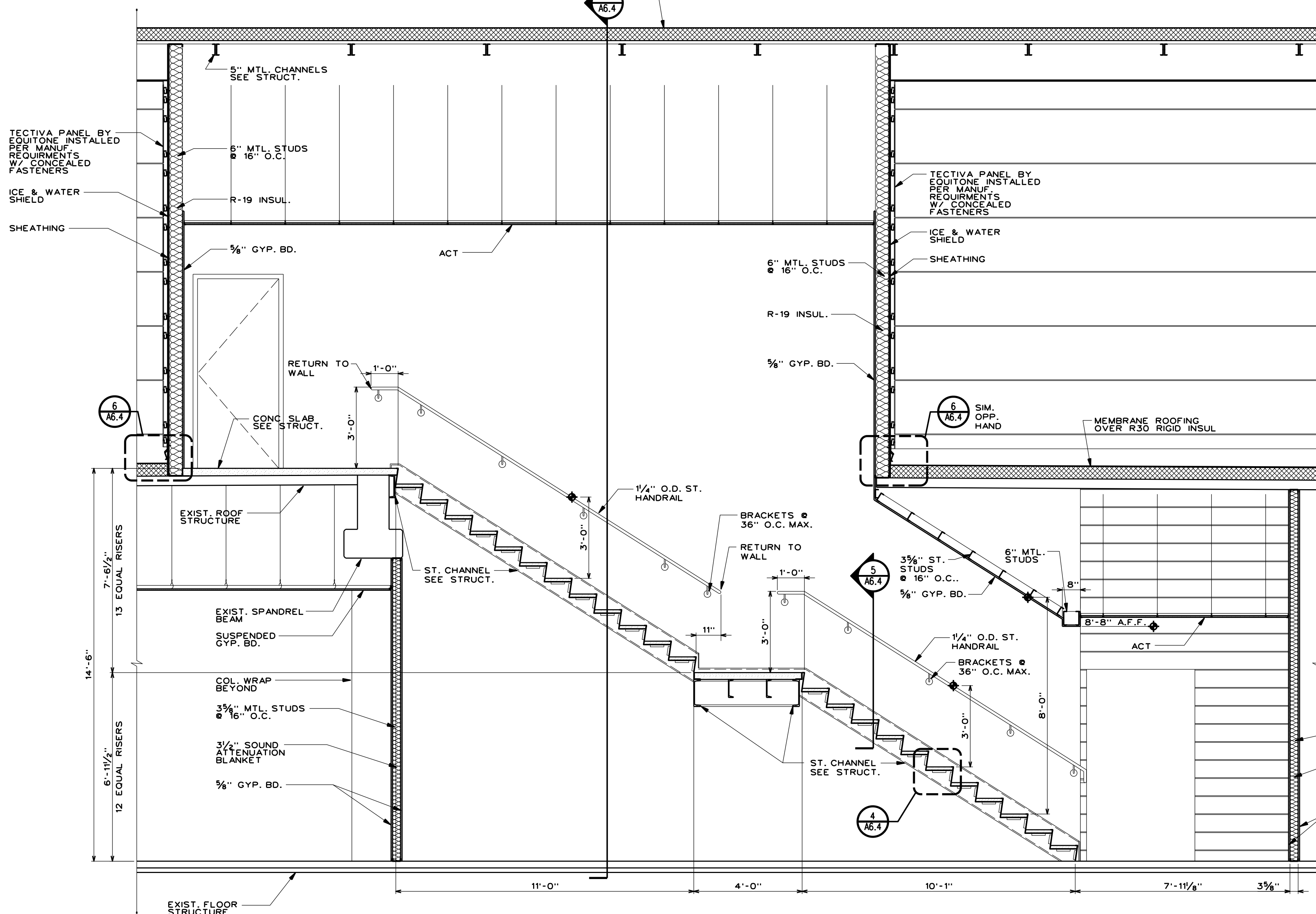
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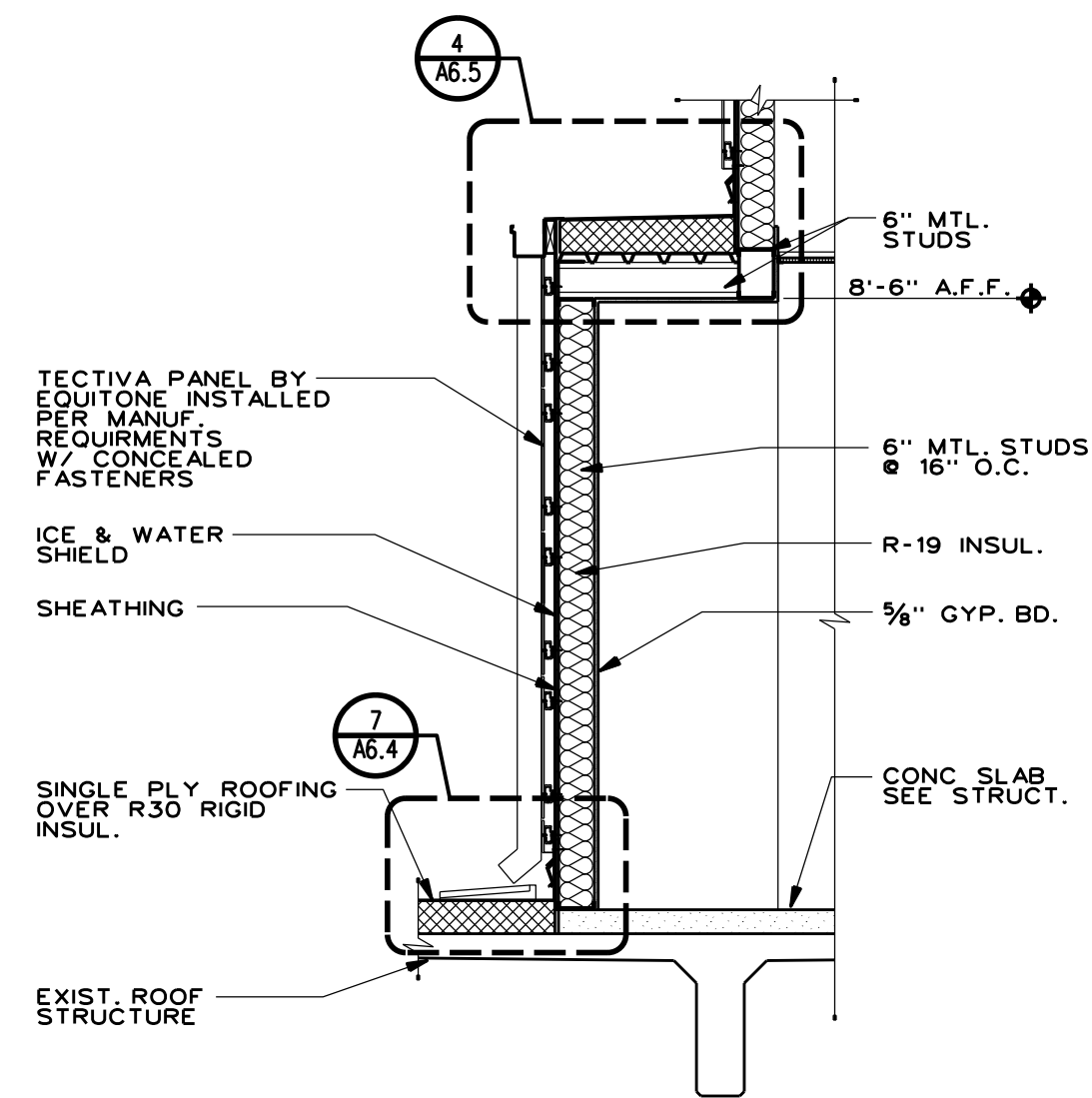
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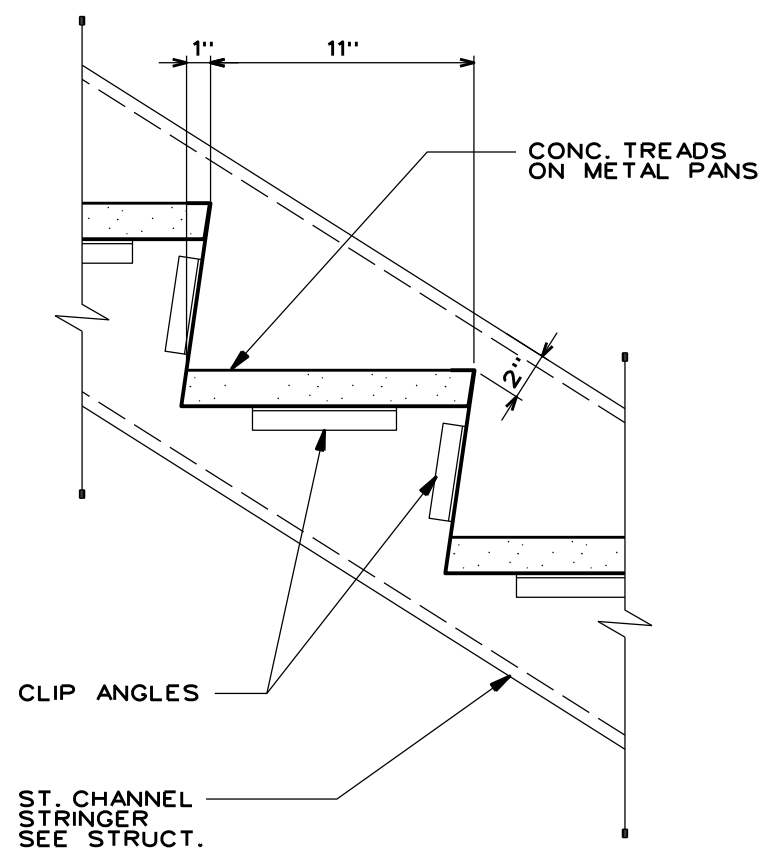
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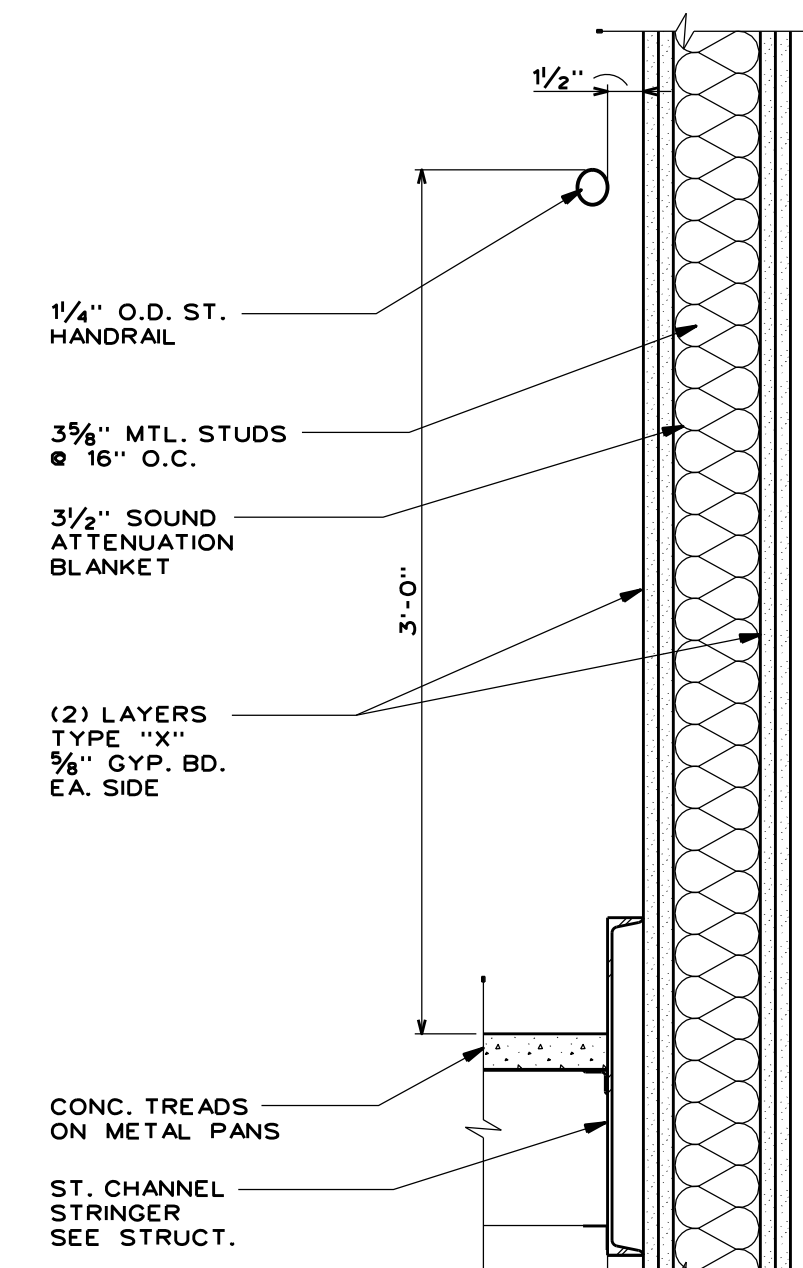
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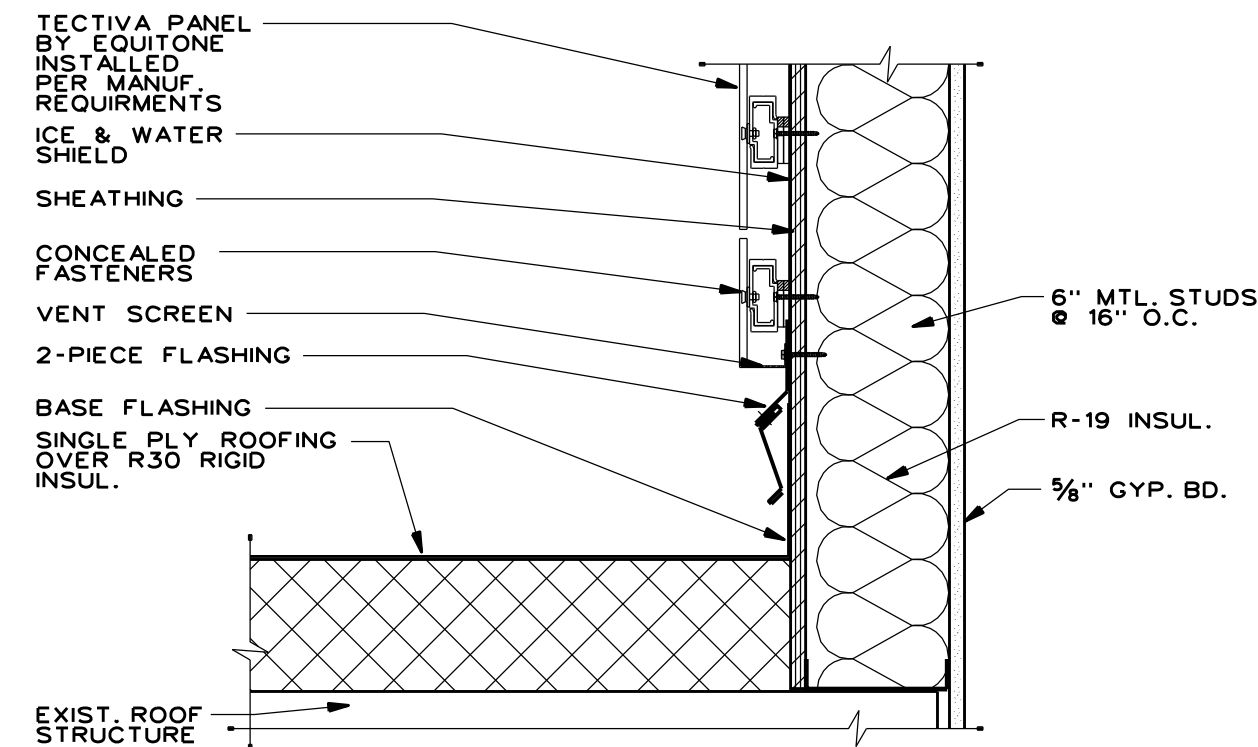
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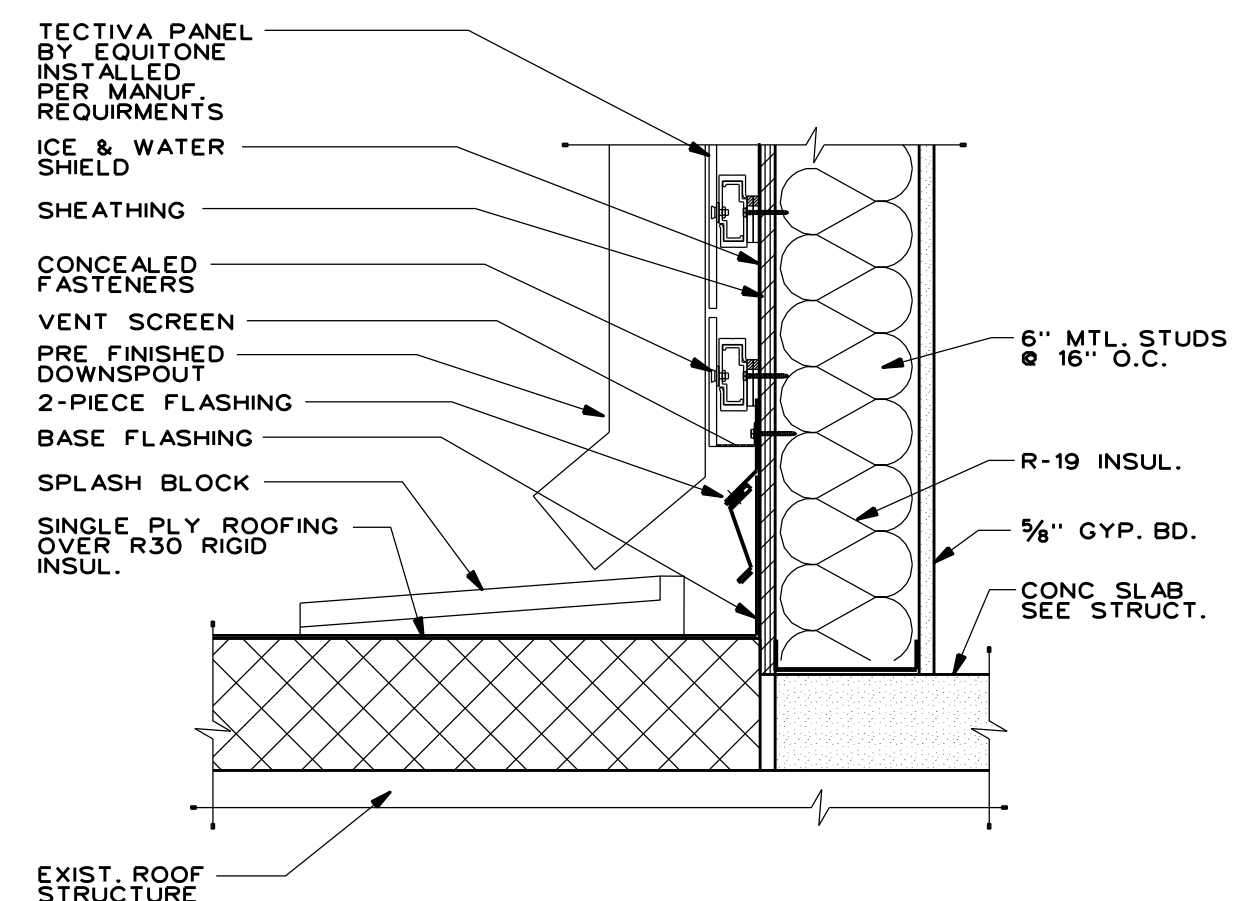
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**5 DETAIL**  
SCALE: 1/2" = 1'-0"



**6 DETAIL**  
SCALE: 1/2" = 1'-0"



**7 DETAIL**  
SCALE: 1/2" = 1'-0"

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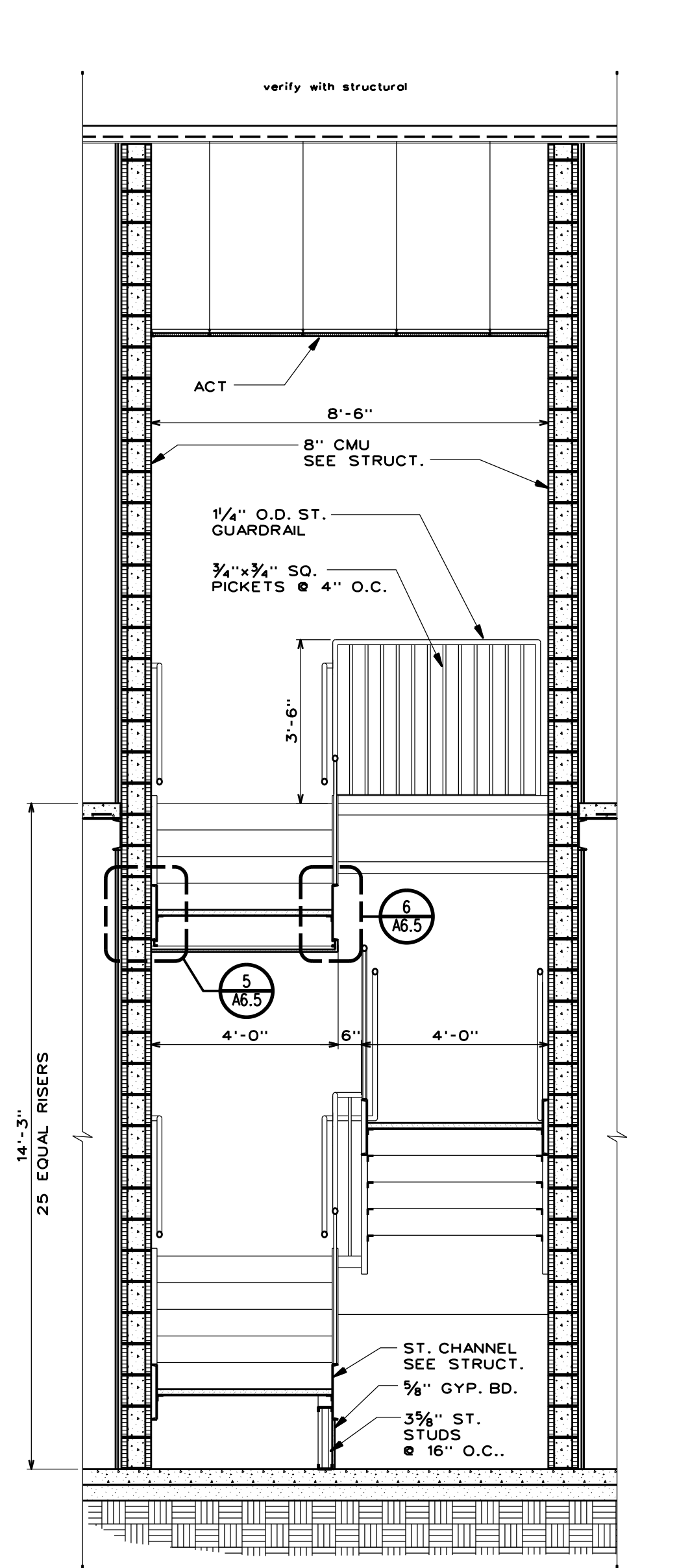
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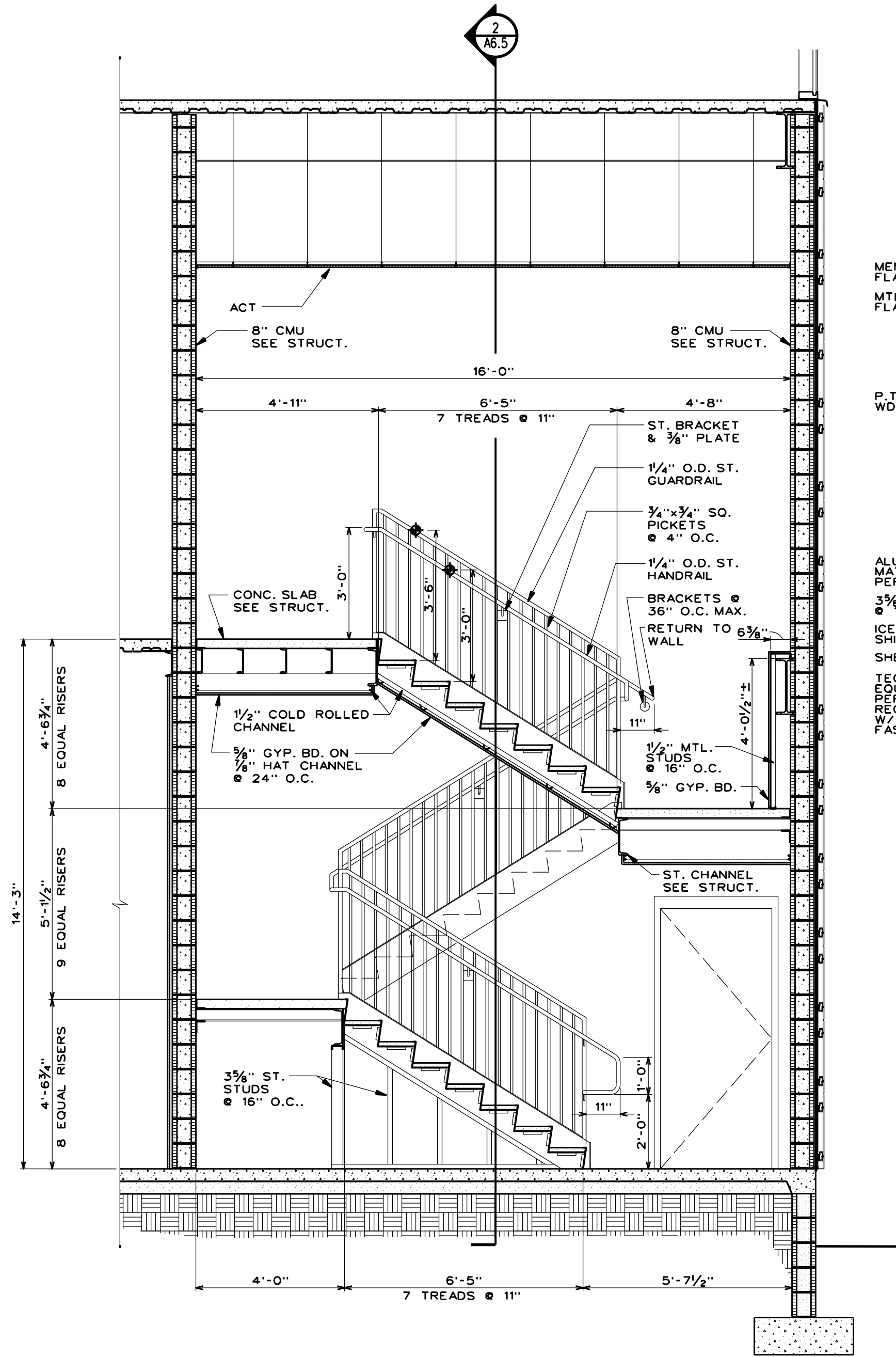
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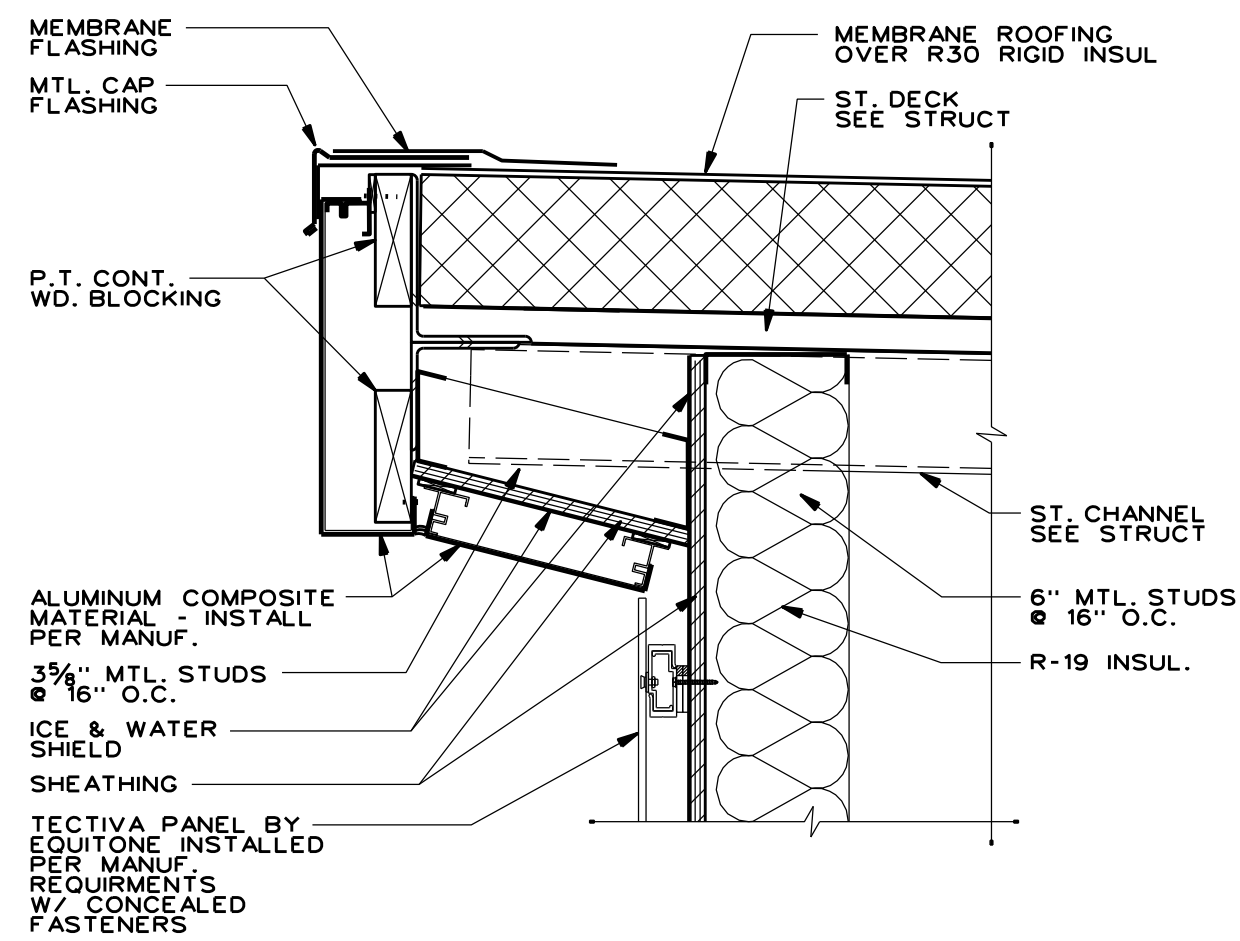




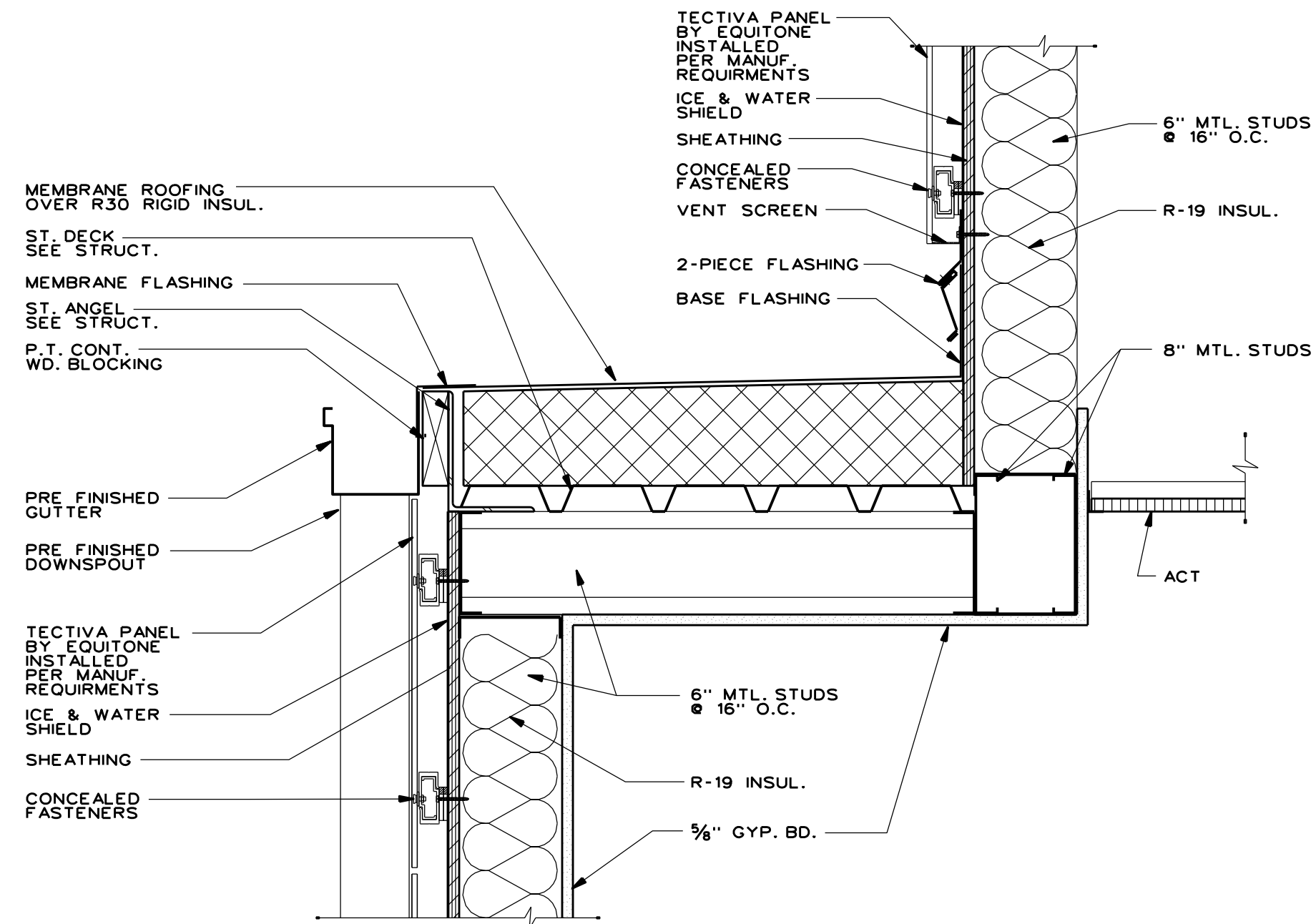
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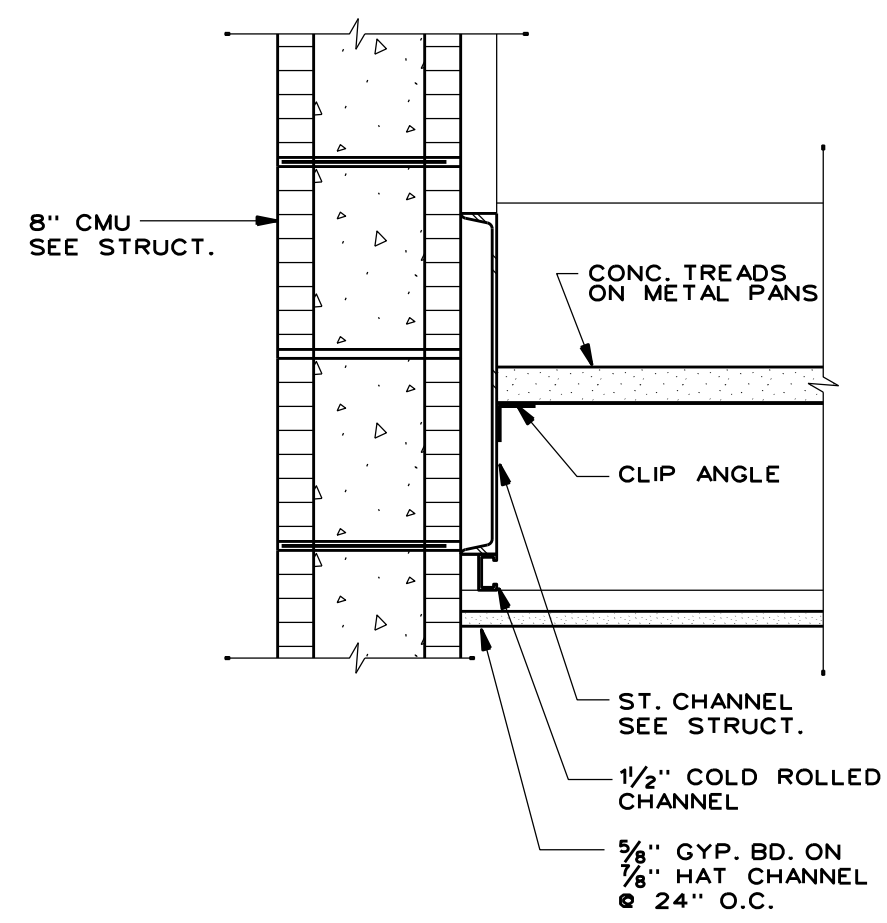
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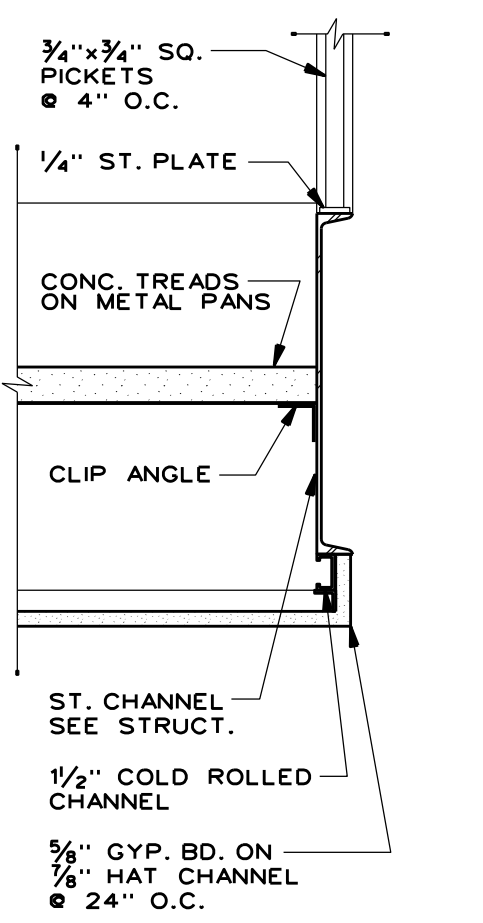
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**DETAIL**  
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**4**  
A6.5  
**DETAIL**  
SCALE: 1/2" = 1'-0"



**5**  
A6.5  
**DETAIL**  
SCALE: 1/2" = 1'-0"



**6**  
A6.5  
**DETAIL**  
SCALE: 1/2" = 1'-0"

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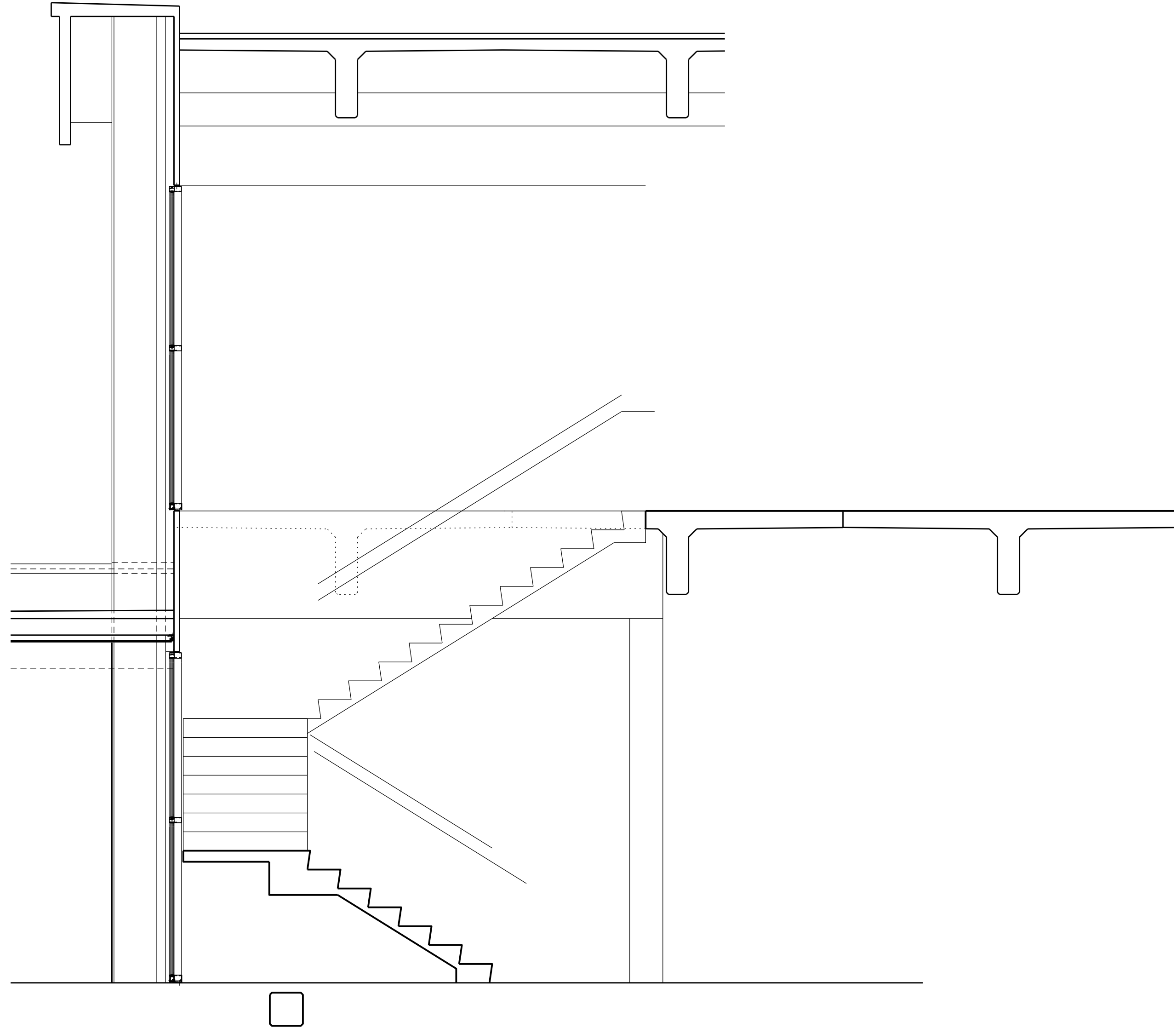
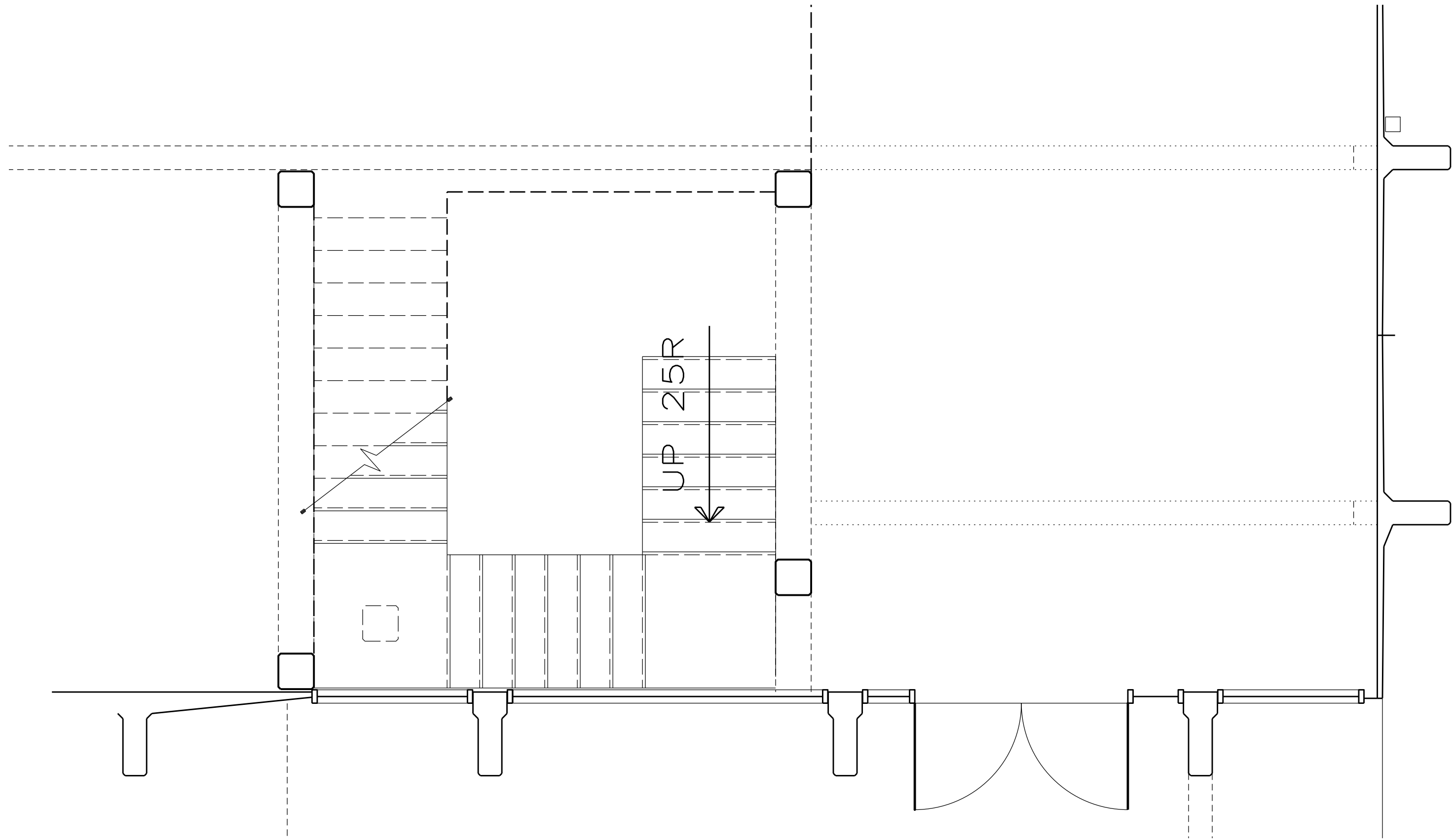
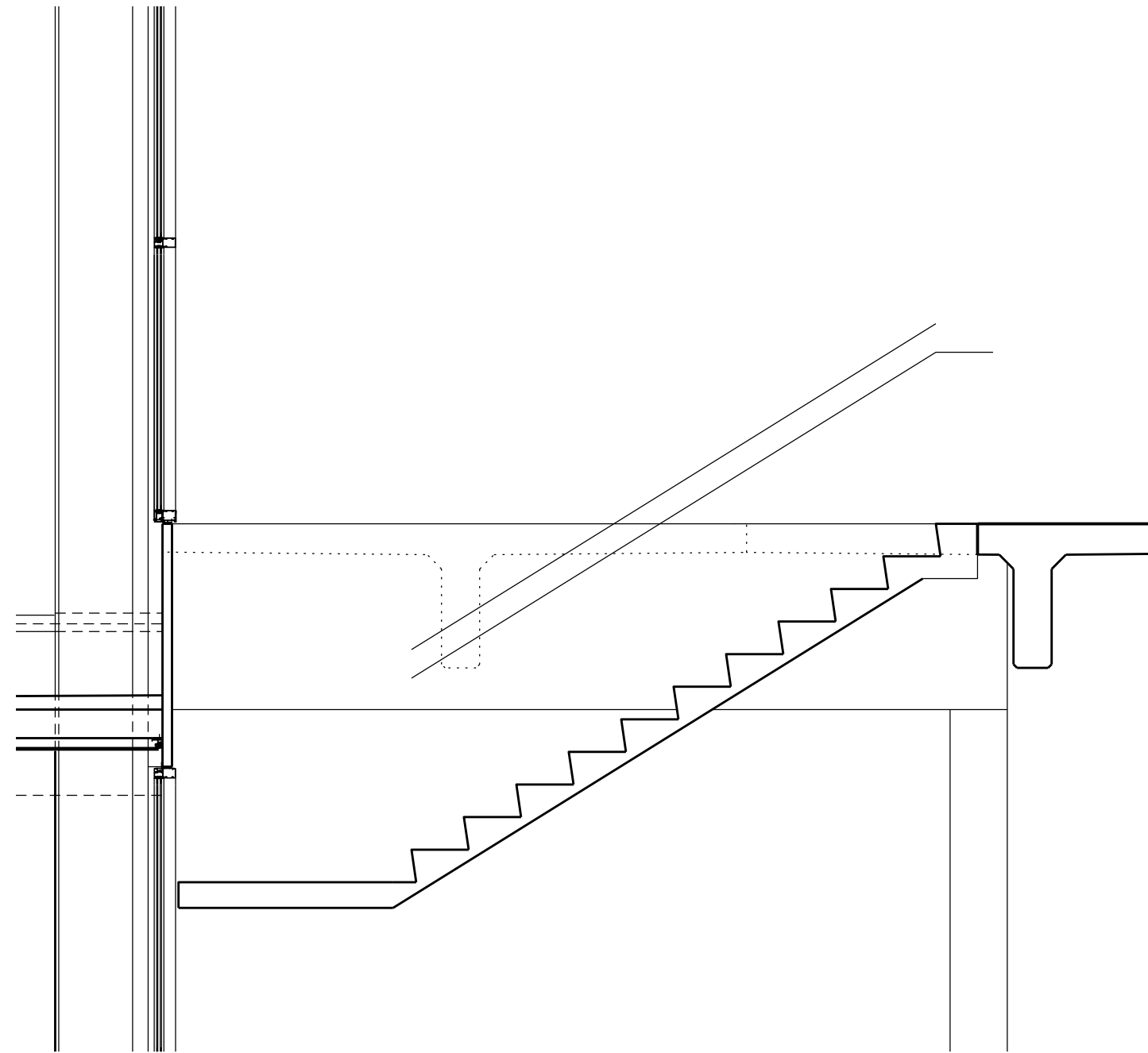
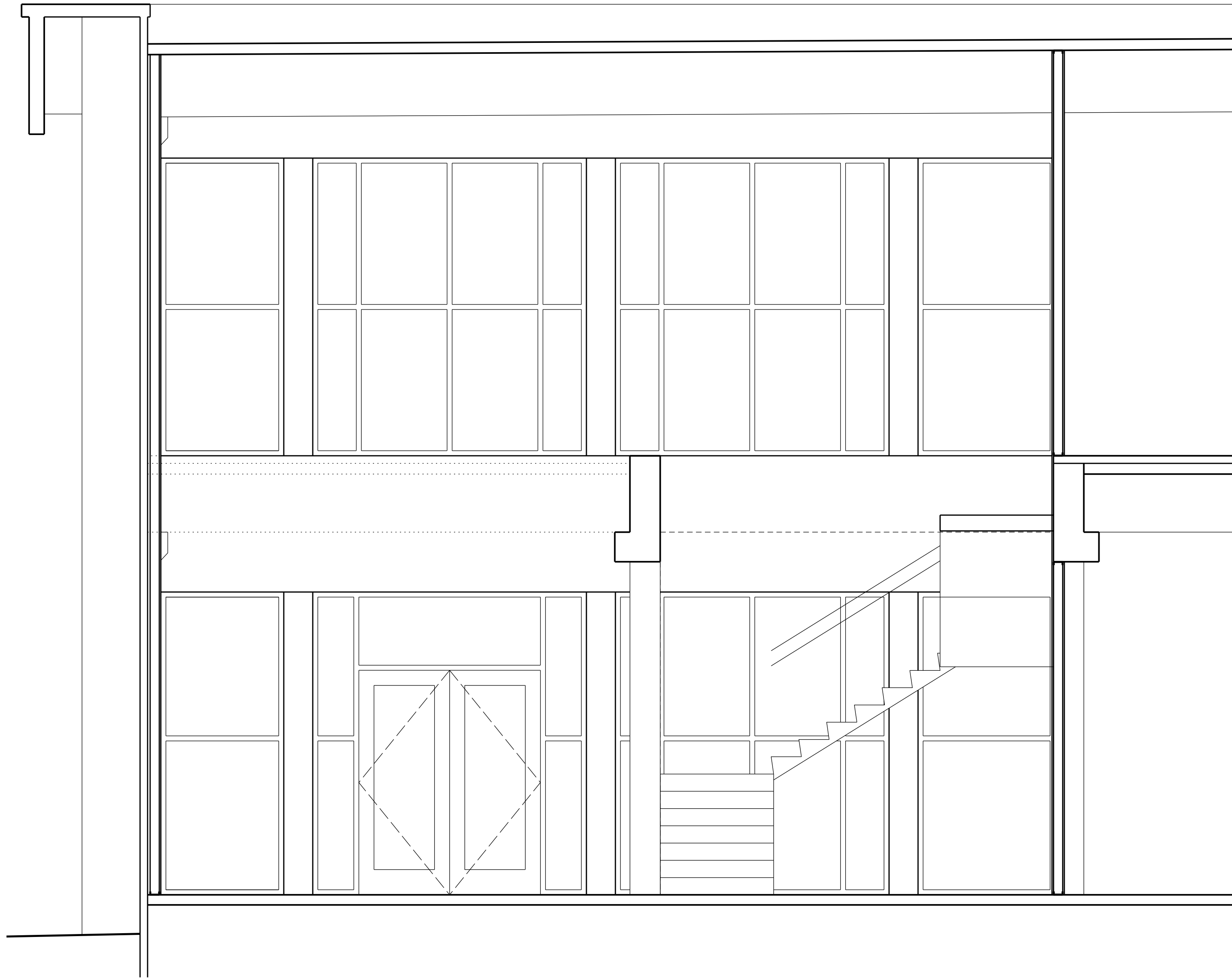
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**A6.5**



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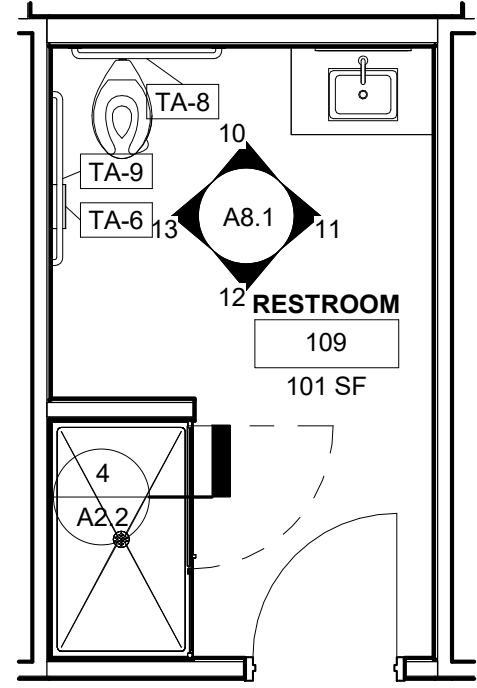
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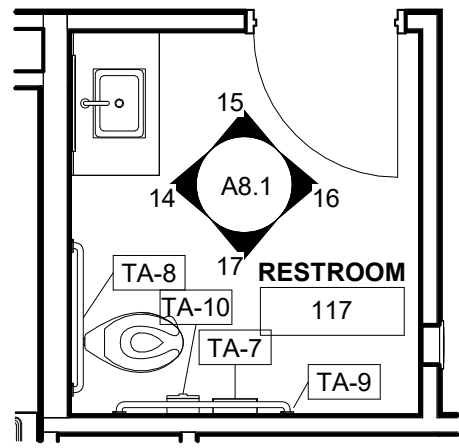
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A6.6

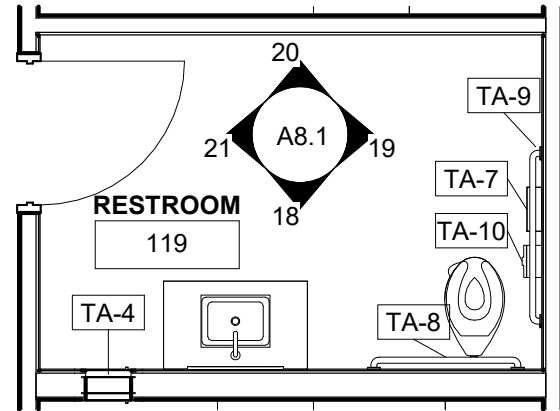
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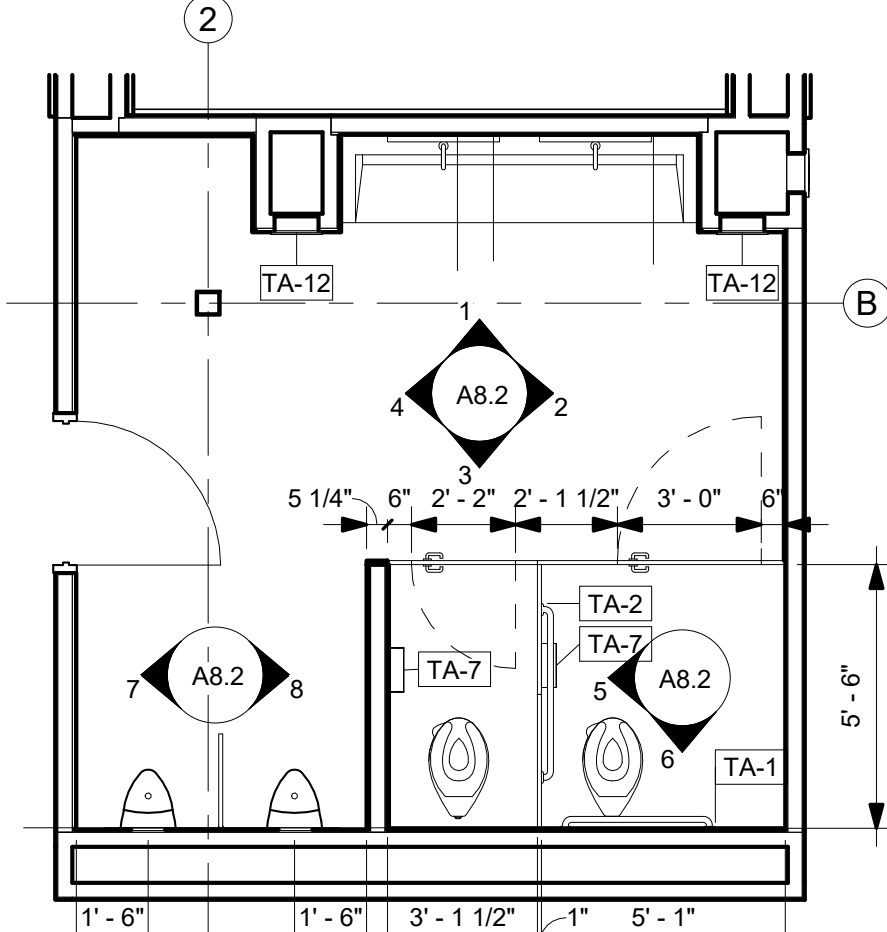
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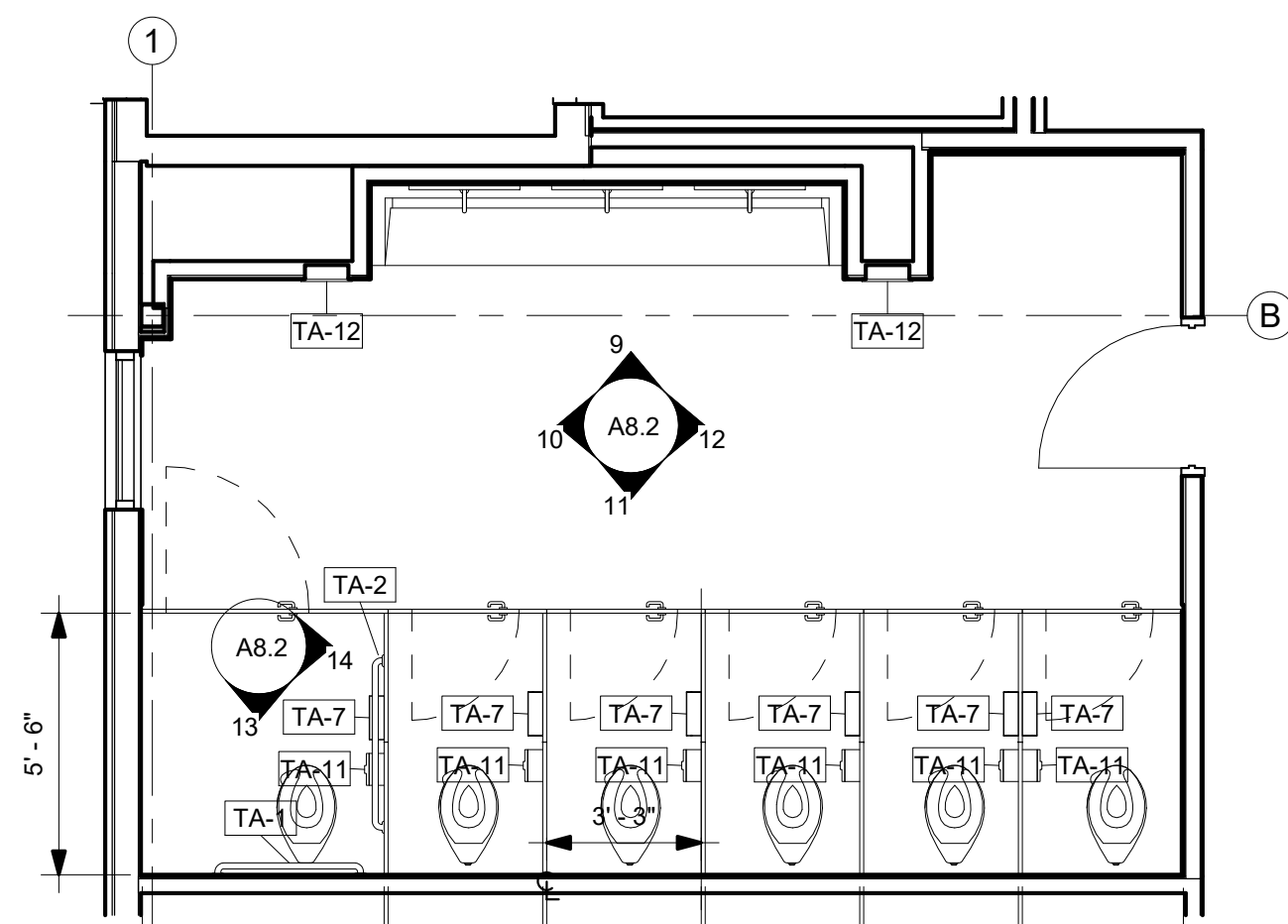
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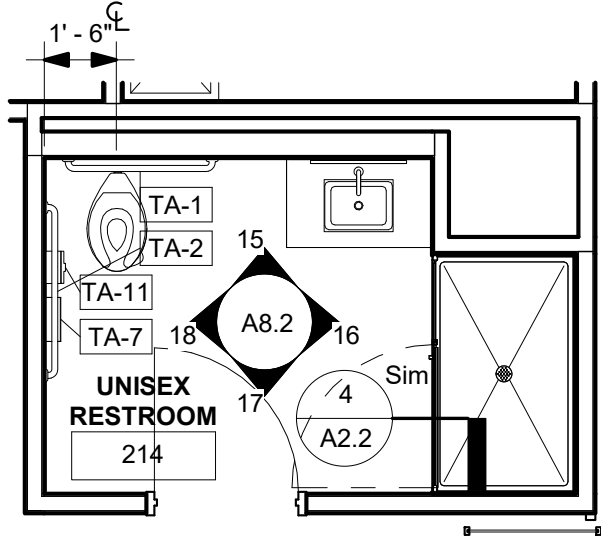
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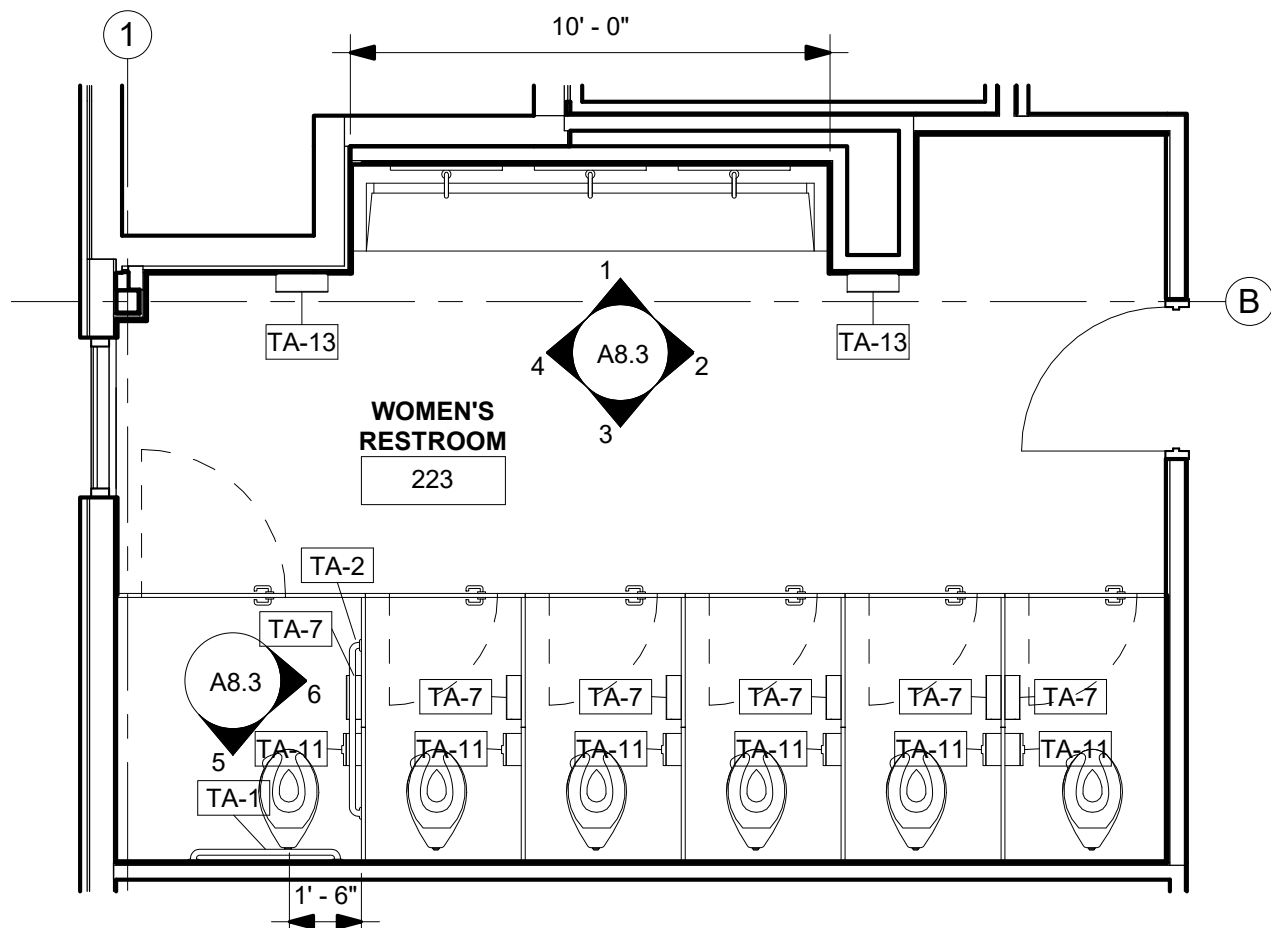
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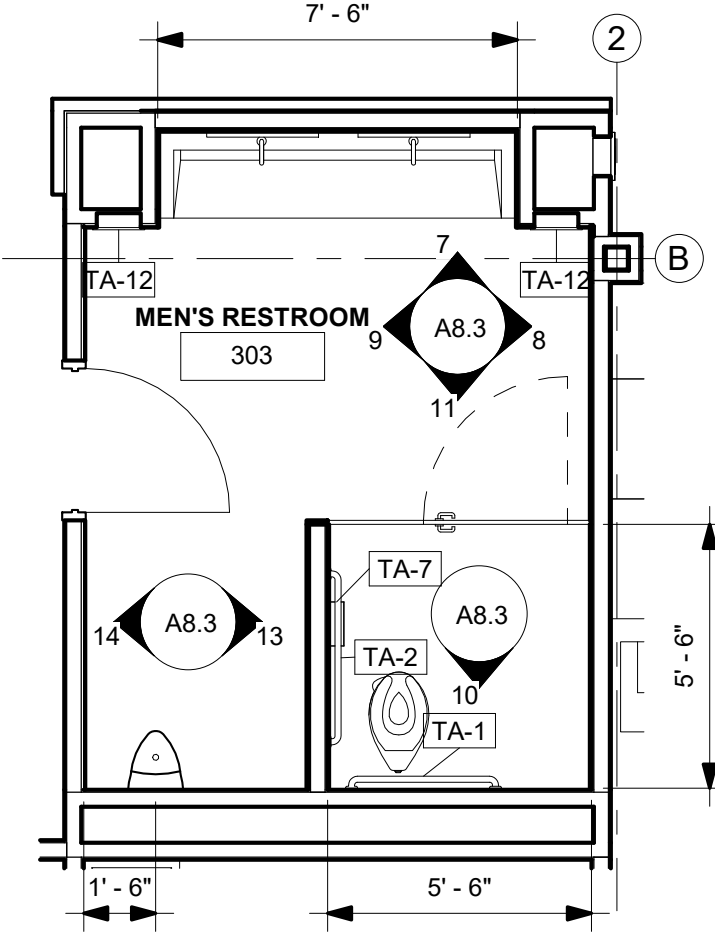
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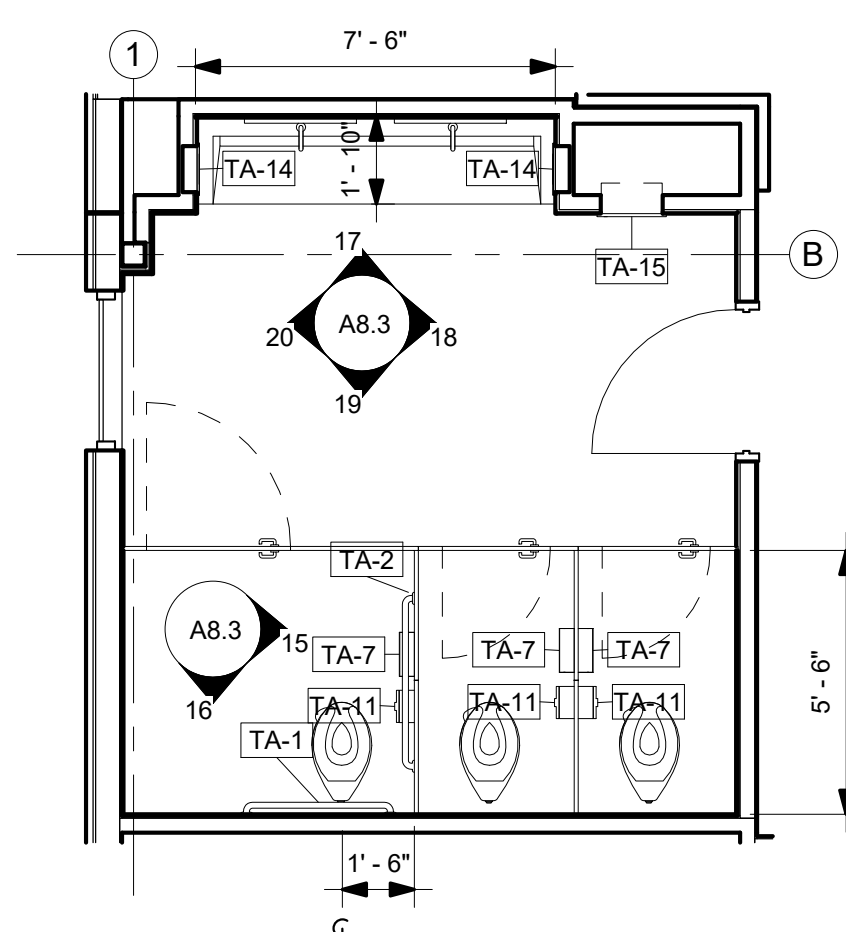
6 214 UNISEX RESTROOM PLAN  
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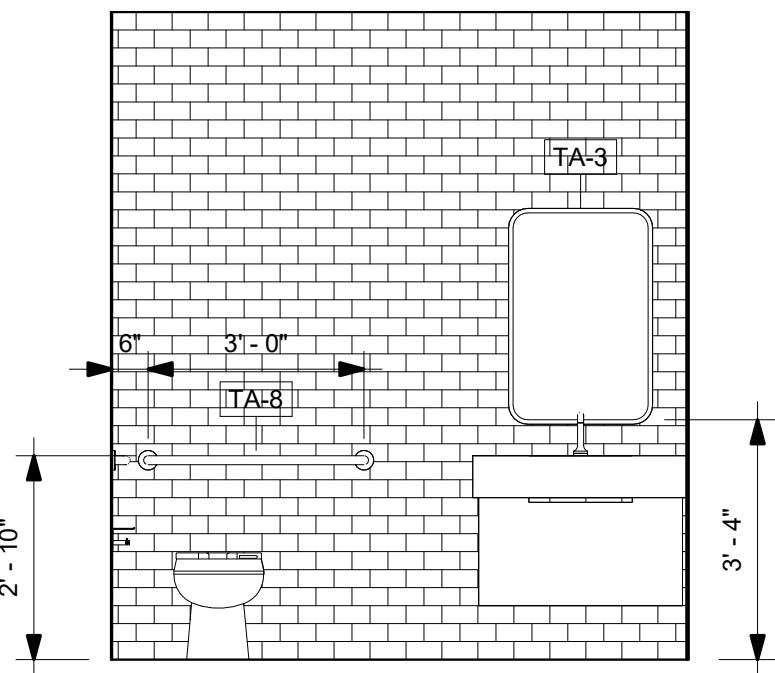
7 223 WOMEN'S RESTROOM PLAN  
A8.1 SCALE: 1/4" = 1'-0"



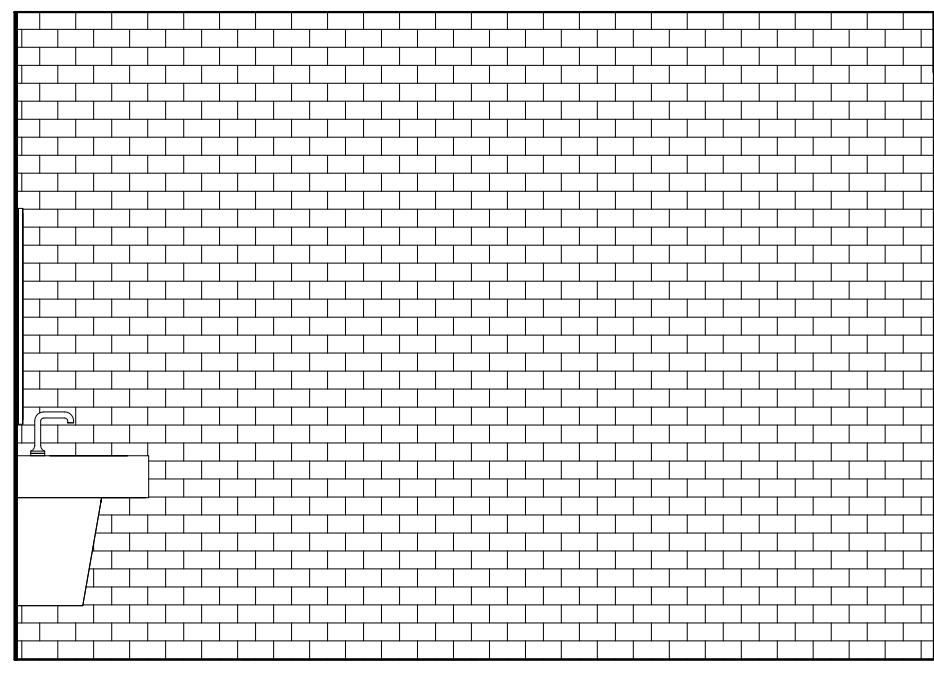
8 303 MEN'S RESTROOM PLAN  
A8.1 SCALE: 1/4" = 1'-0"



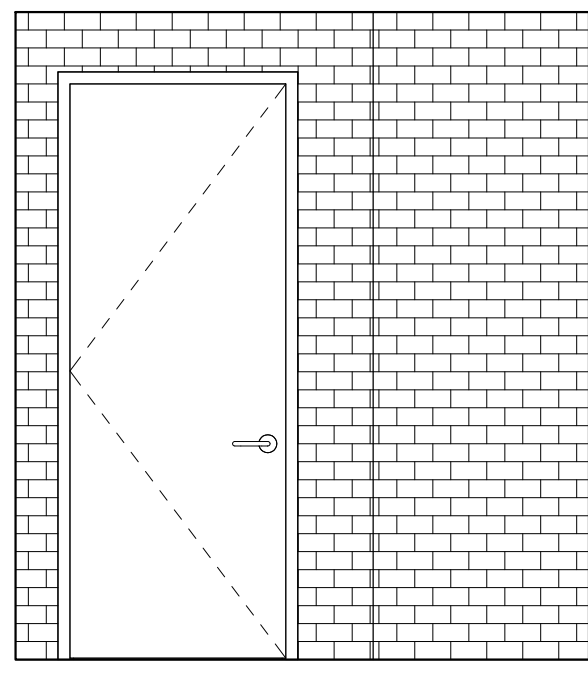
9 305 WOMEN'S RESTROOM PLAN  
A8.1 SCALE: 1/4" = 1'-0"



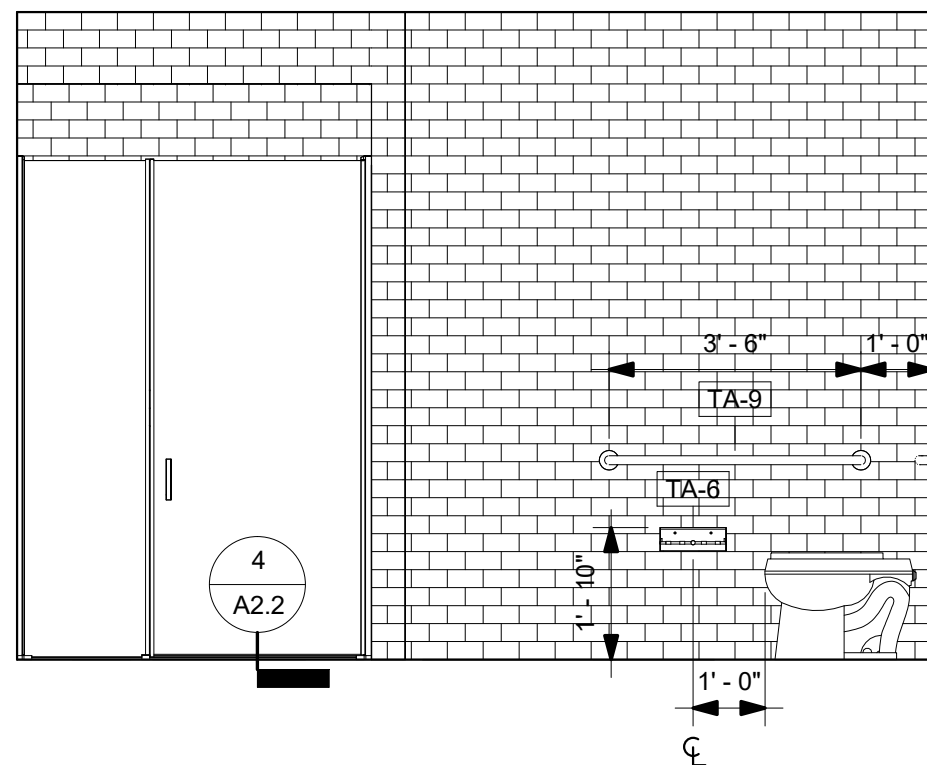
10 109 RESTROOM  
A8.1 SCALE: 3/8" = 1'-0"



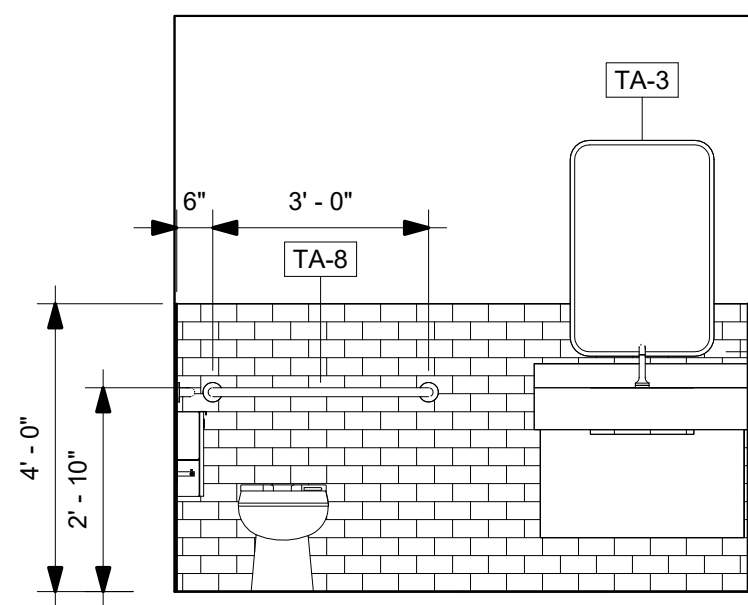
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A8.1 SCALE: 3/8" = 1'-0"



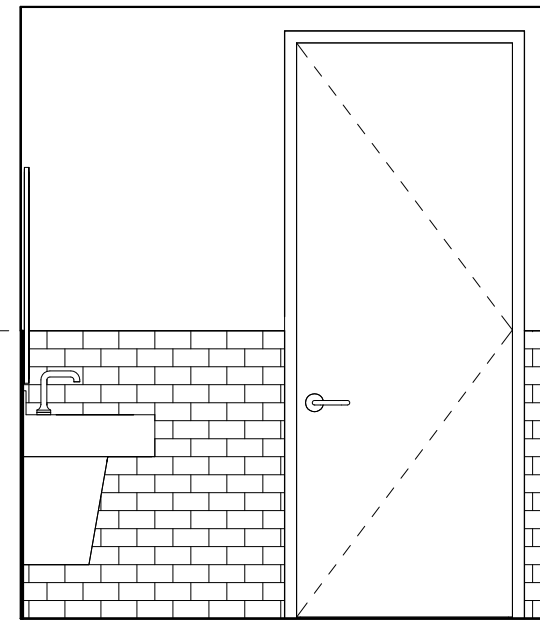
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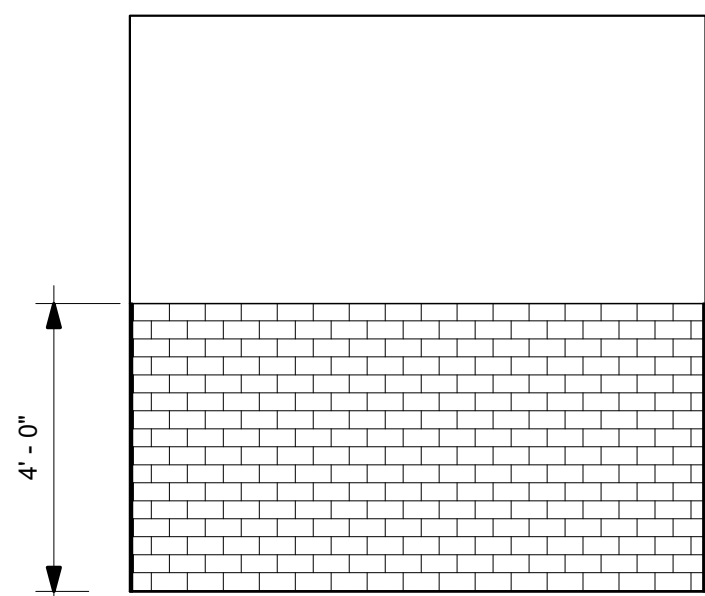
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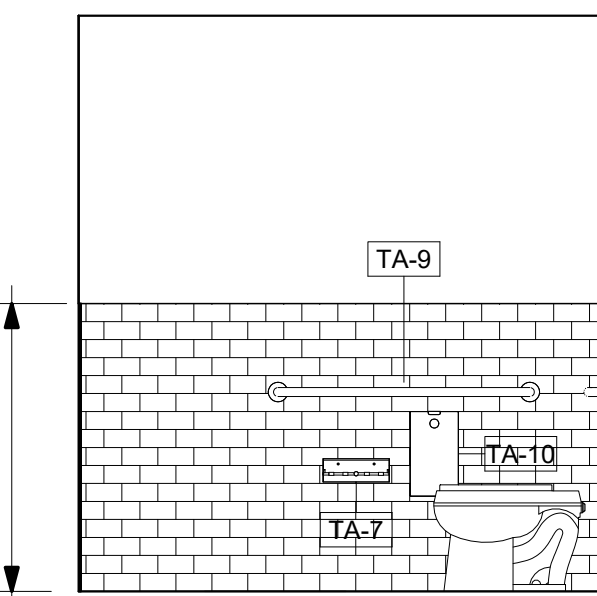
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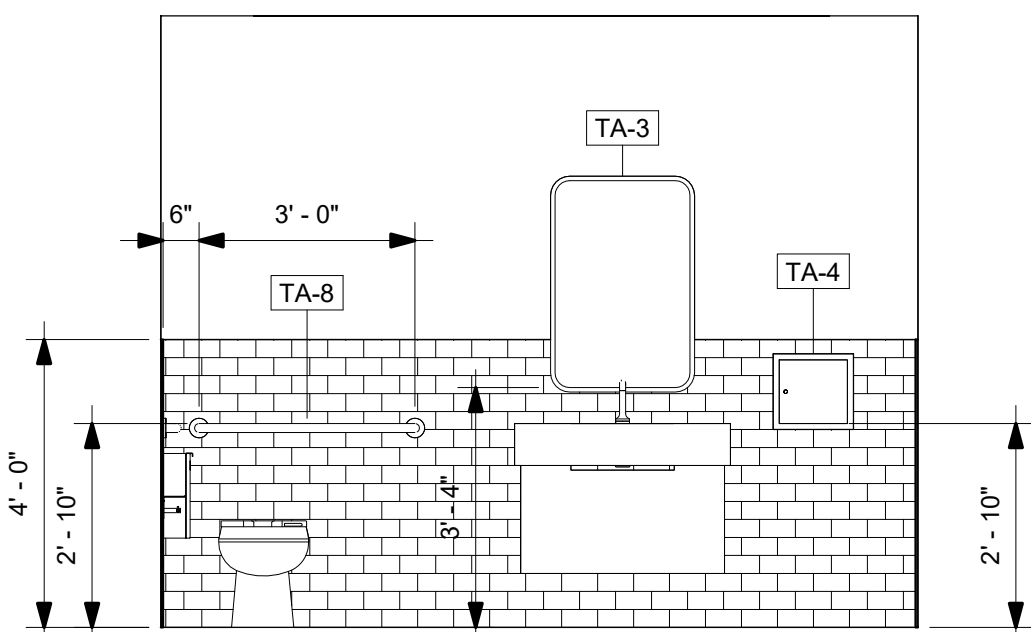
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A8.1 SCALE: 3/8" = 1'-0"



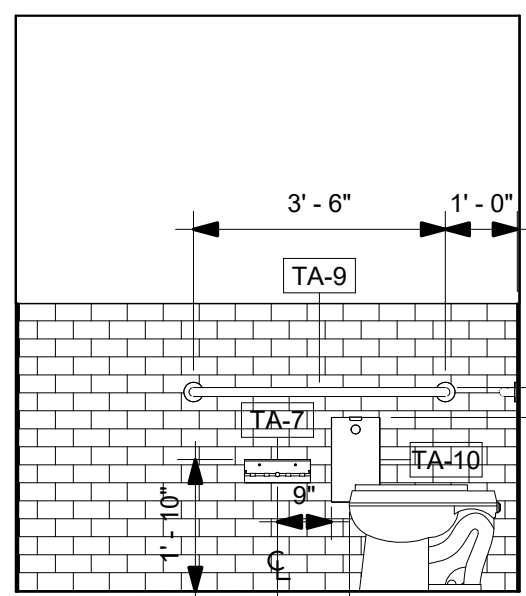
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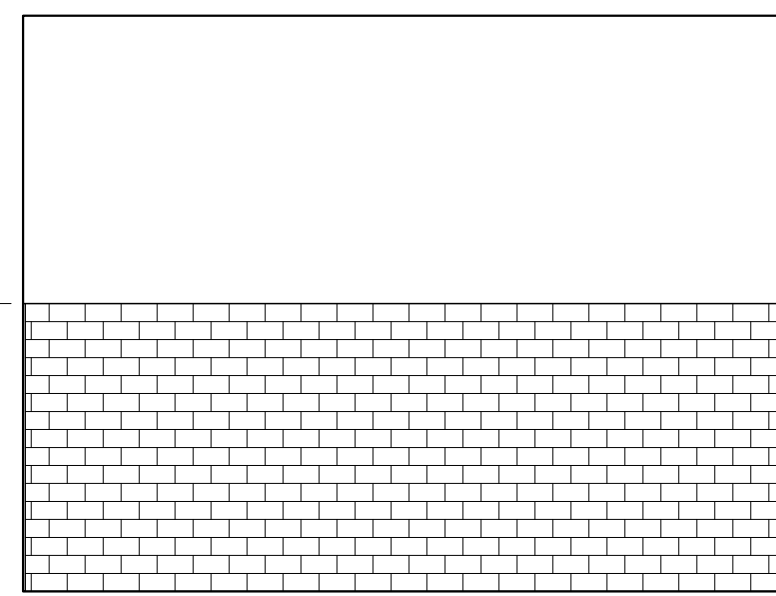
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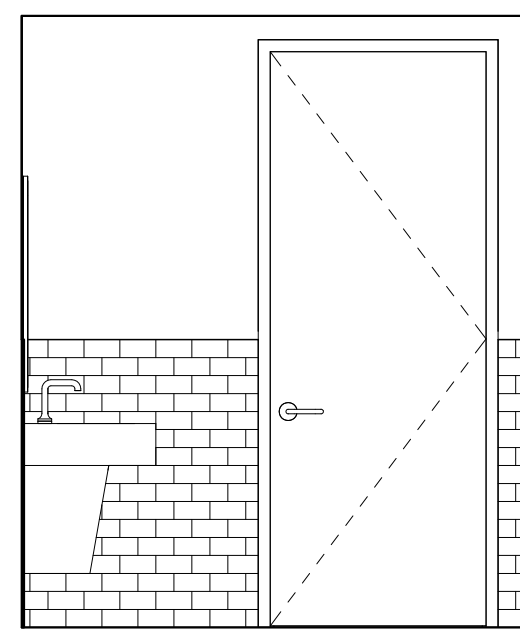
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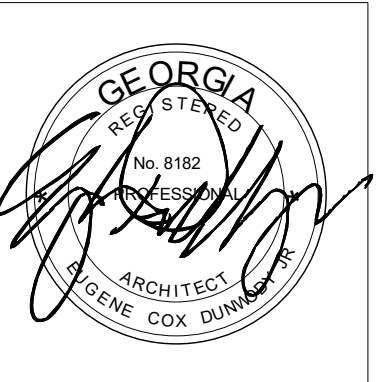
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A8.1 SCALE: 3/8" = 1'-0"



20 119 RESTROOM  
A8.1 SCALE: 3/8" = 1'-0"



21 119 RESTROOM  
A8.1 SCALE: 3/8" = 1'-0"



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| Revisions: |
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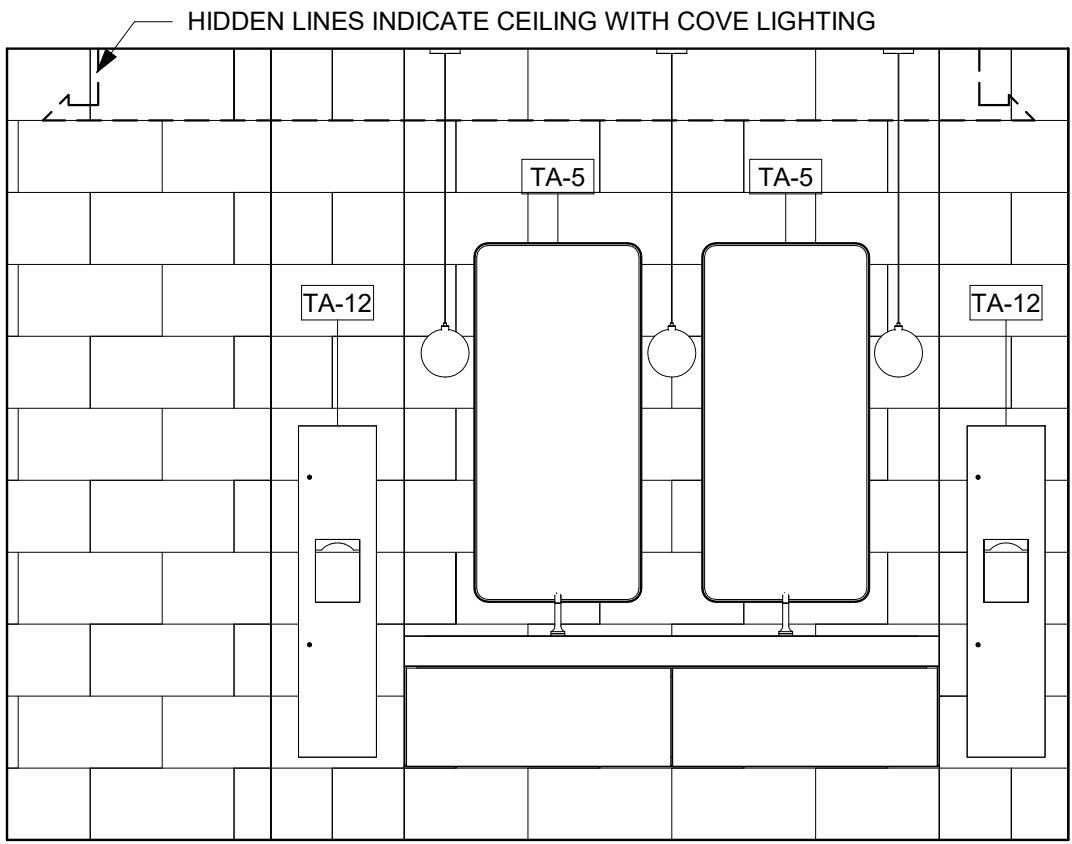
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**LARGE SCALE**  
**PLANS AND**  
**INTERIOR**  
**ELEVATIONS**

**Project #:** 2229 **Date:** 4/18/2025

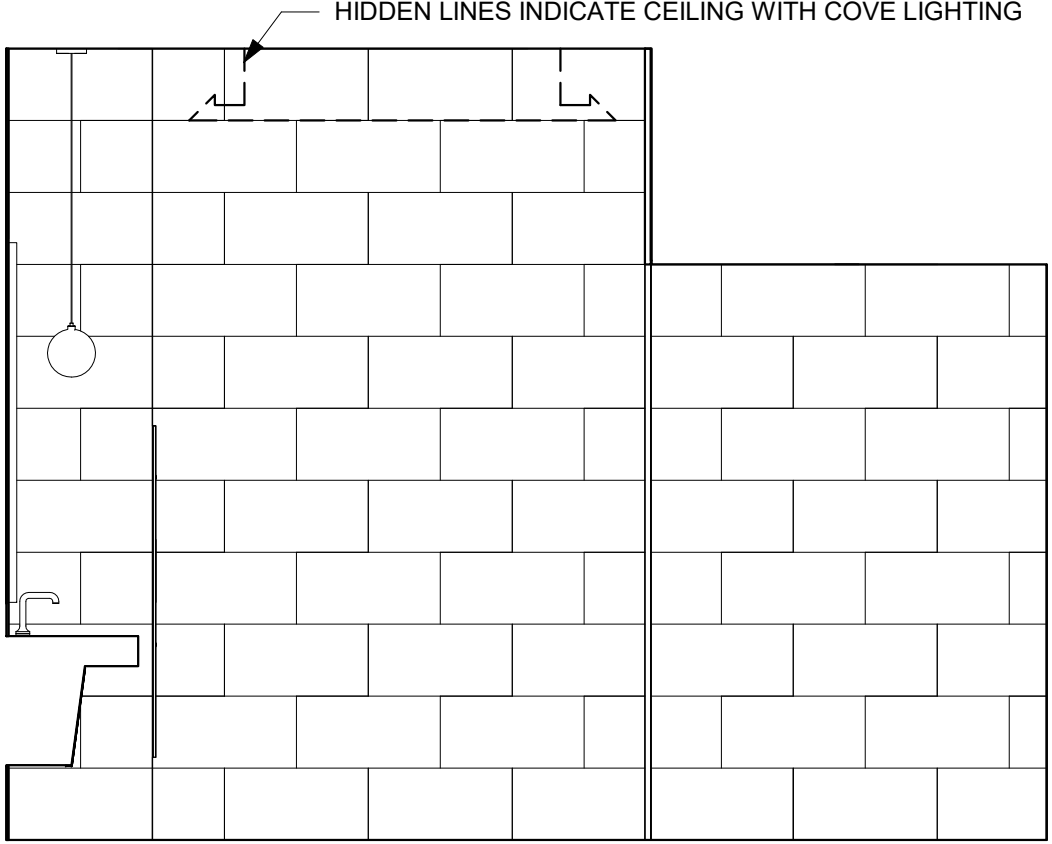
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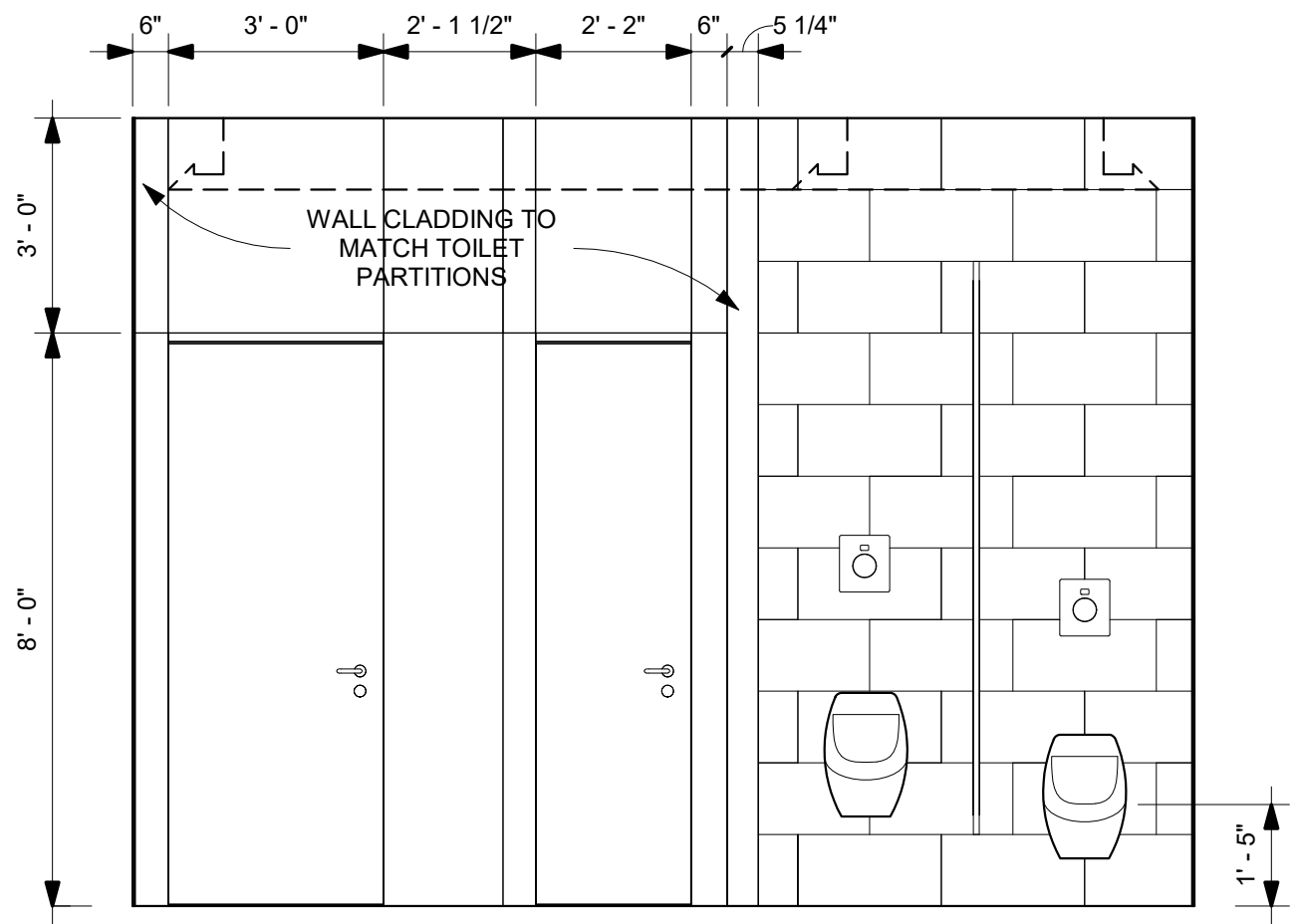
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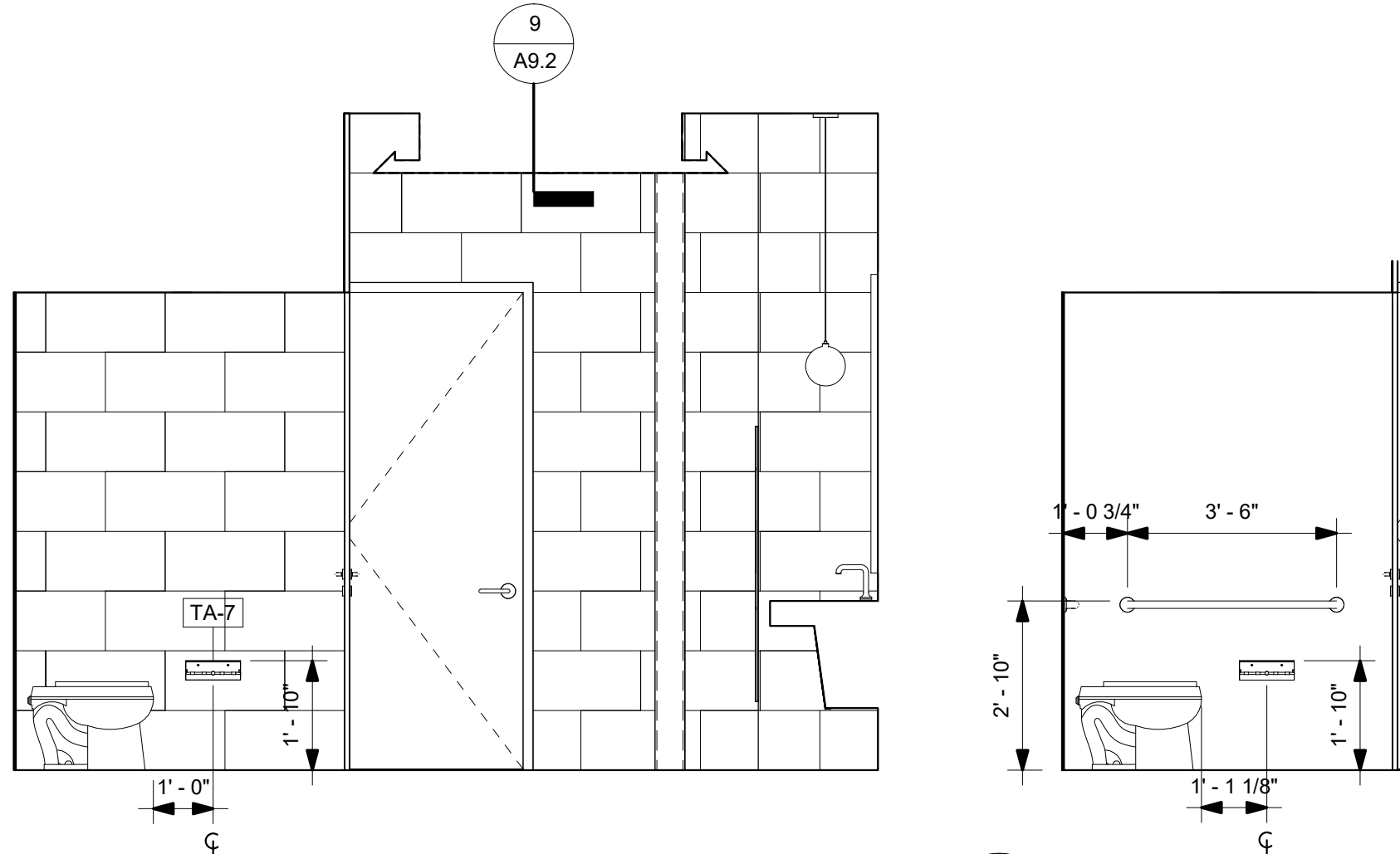
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SCALE: 3/8" = 1'-0"



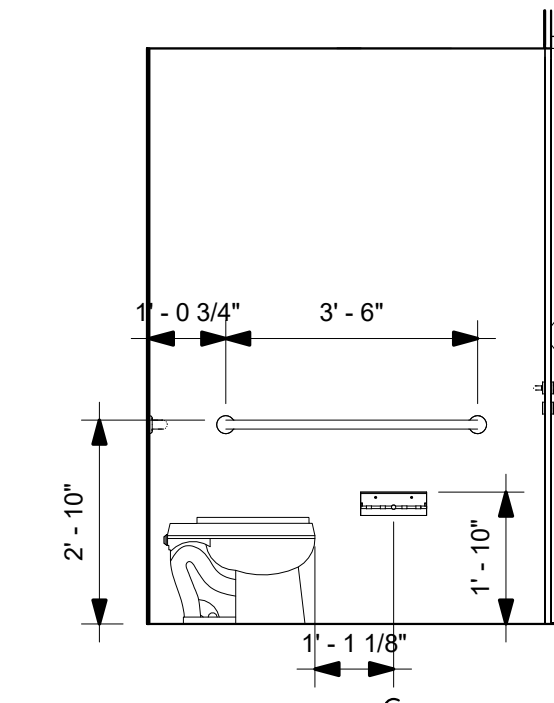
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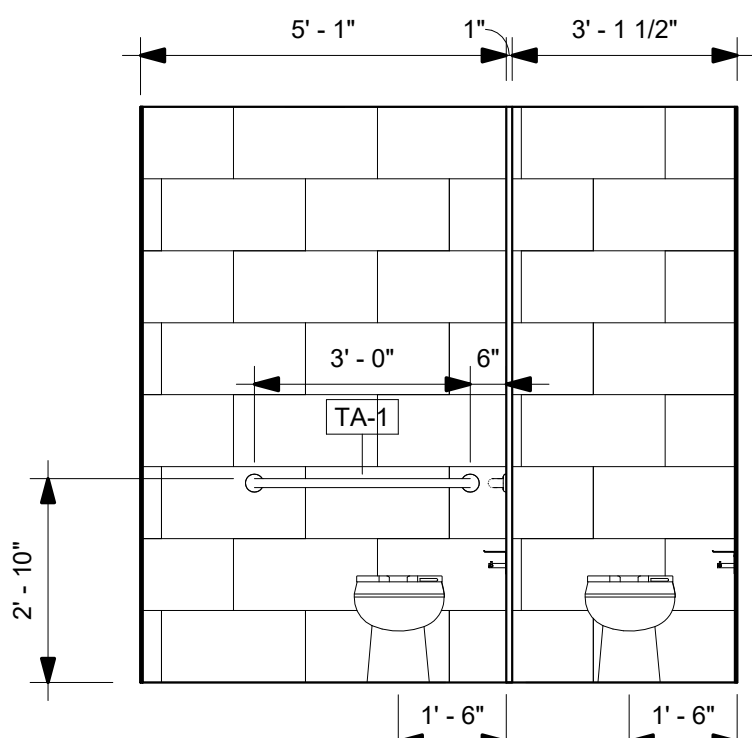
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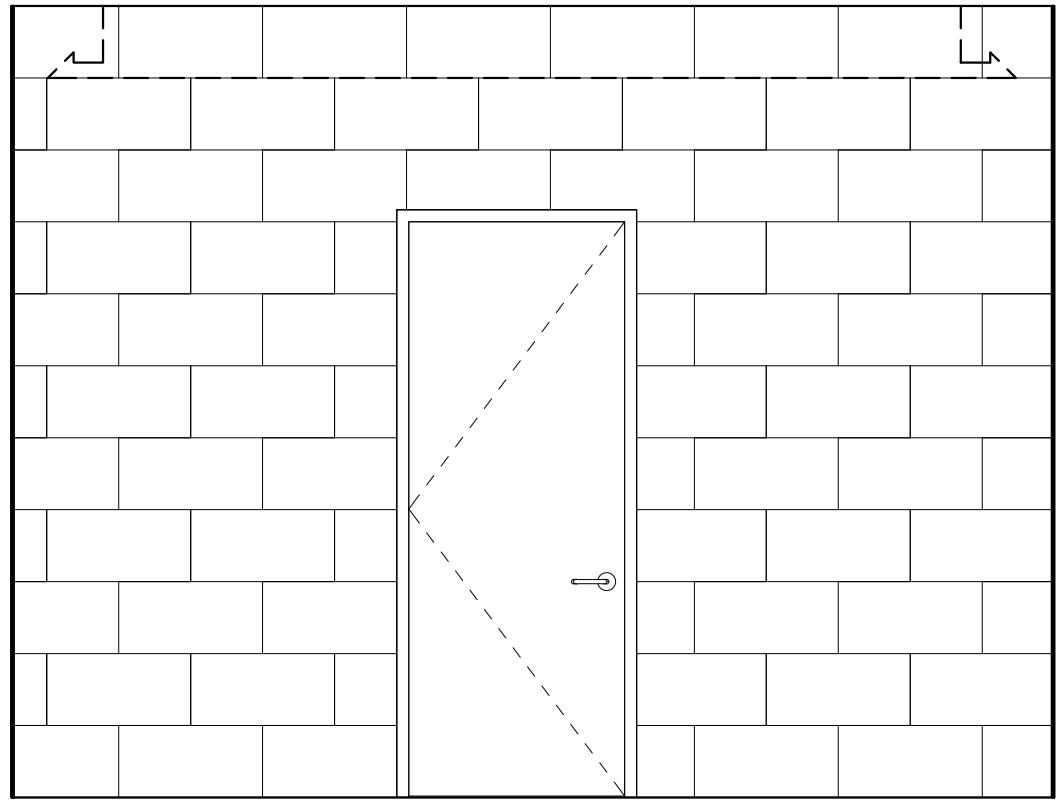
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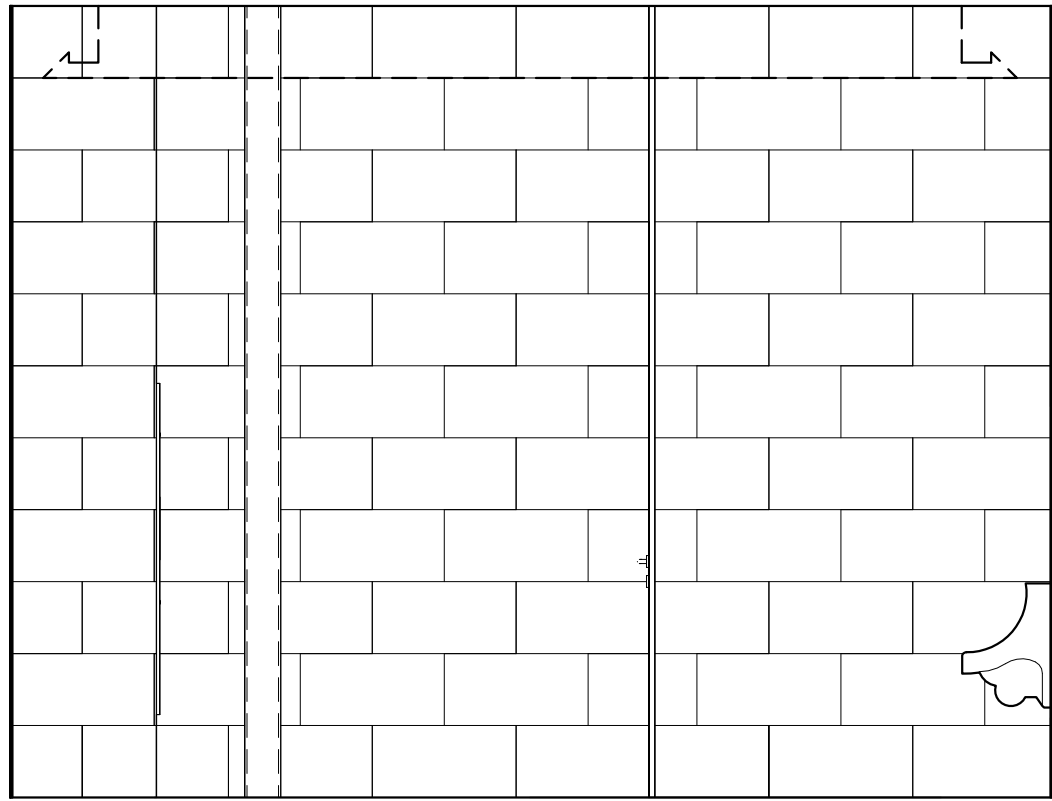
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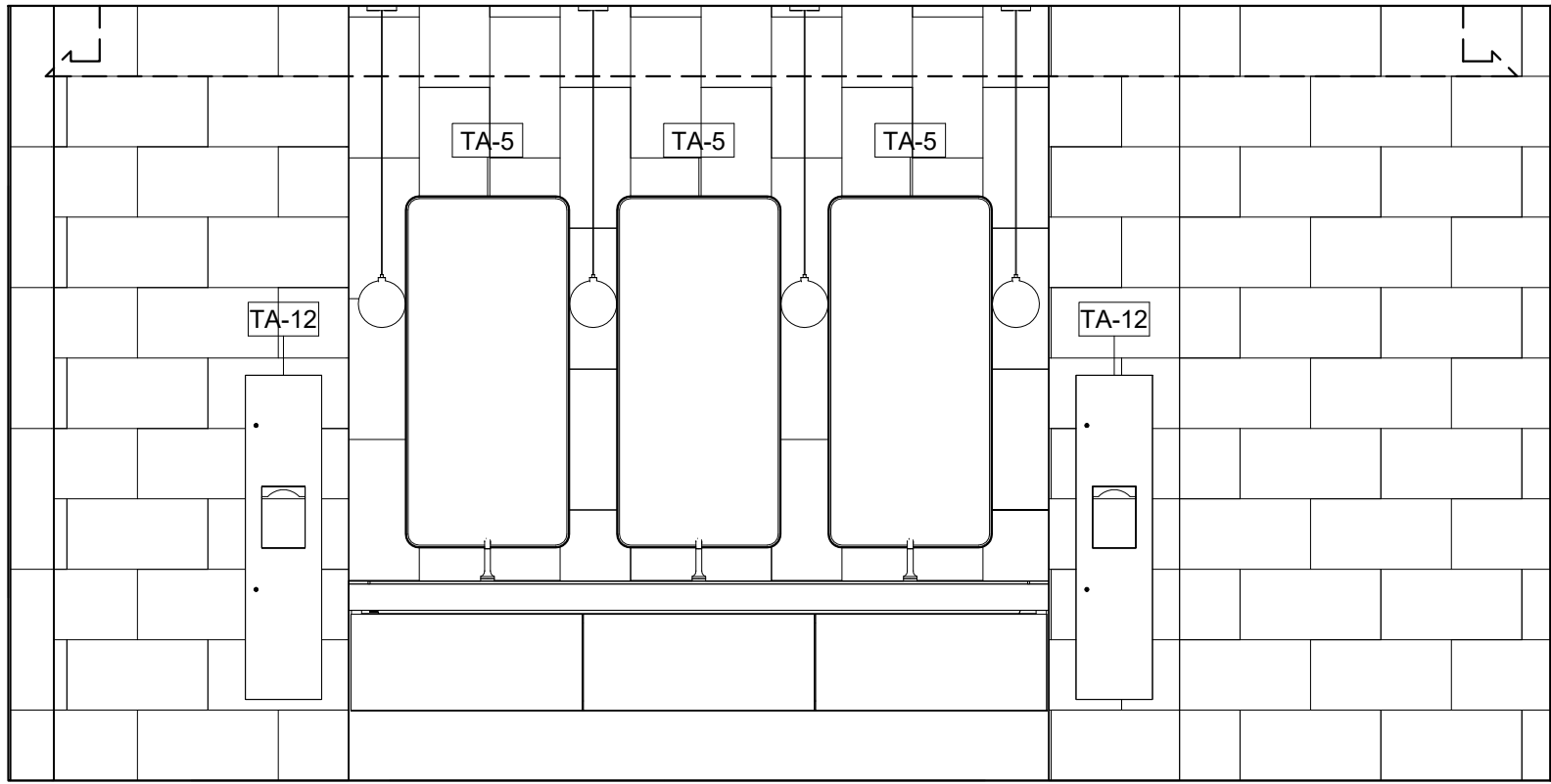
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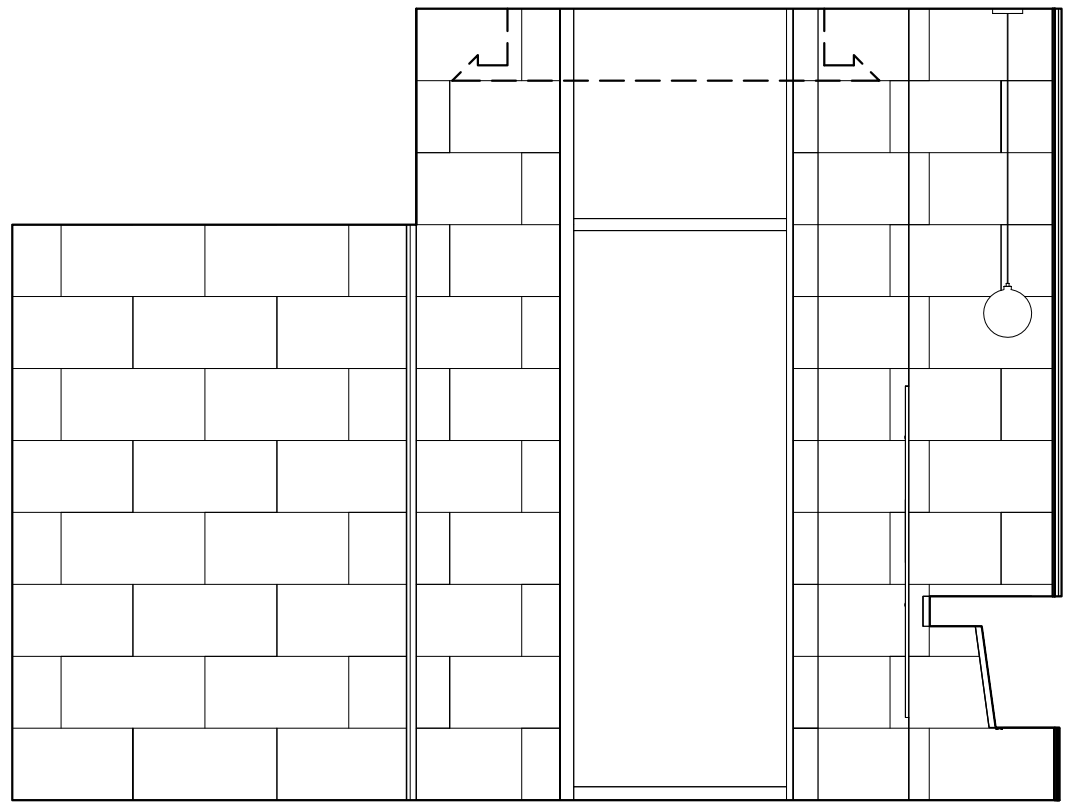
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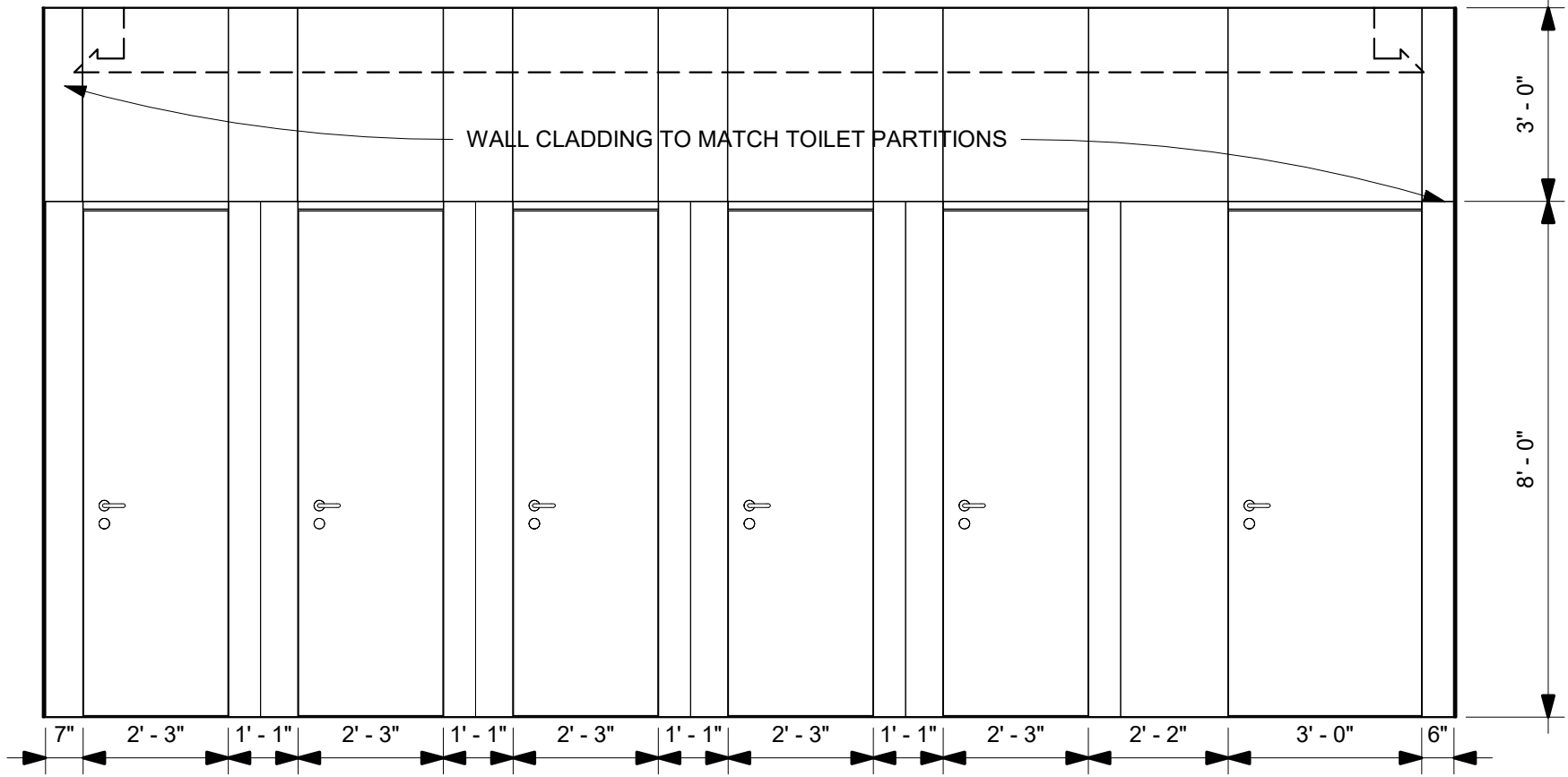
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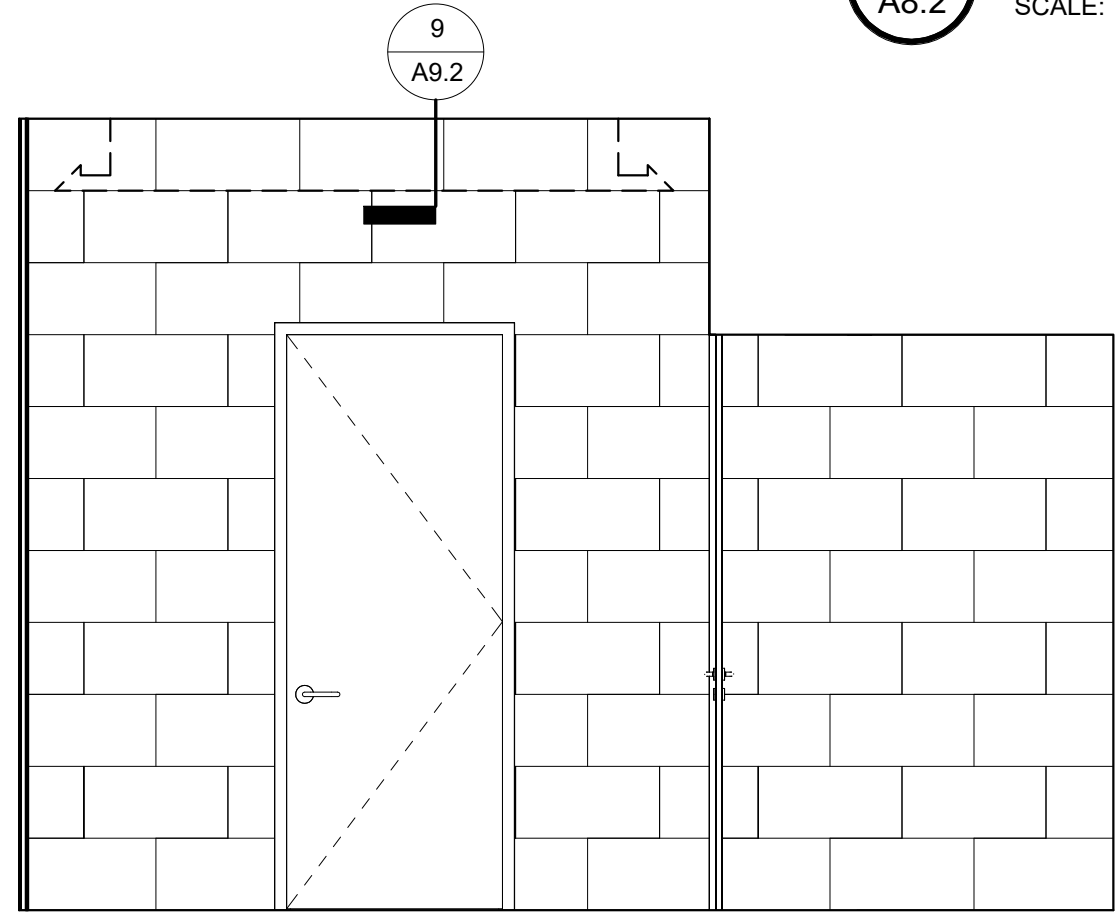
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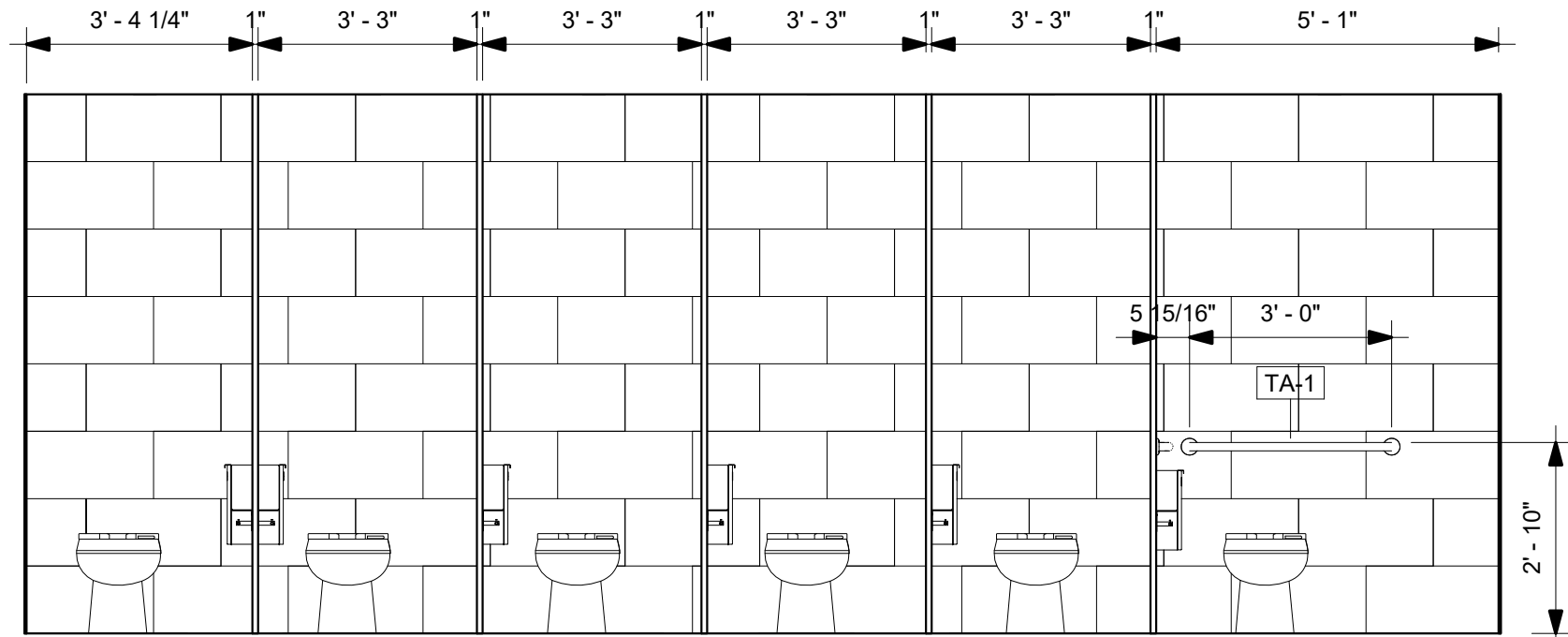
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SCALE: 3/8" = 1'-0"



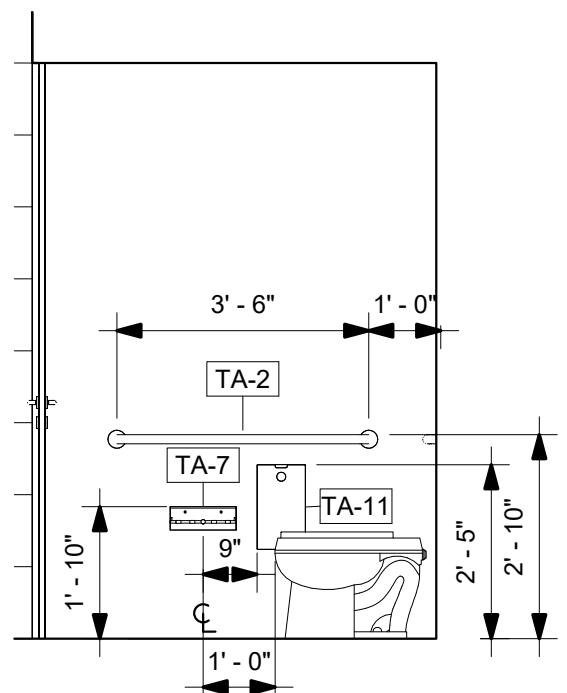
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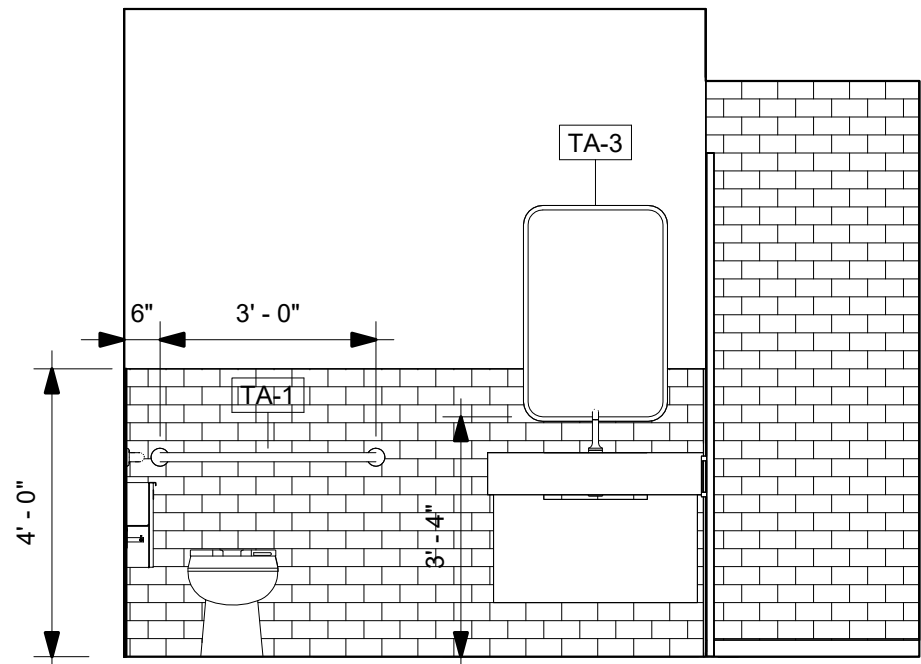
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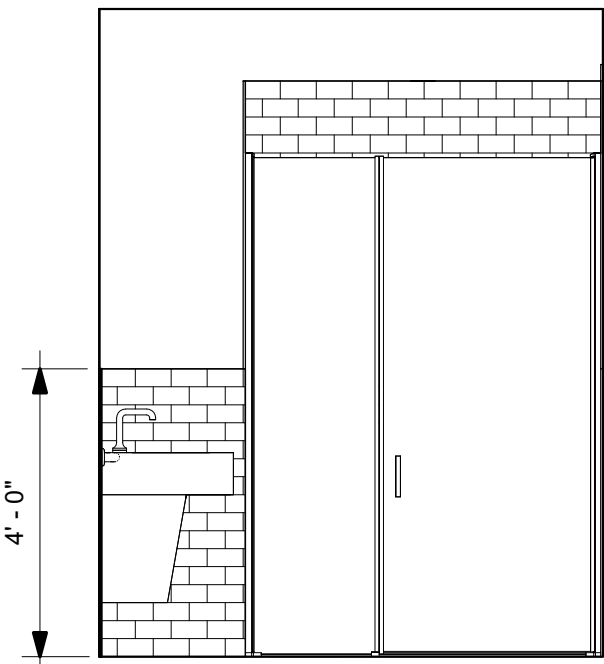
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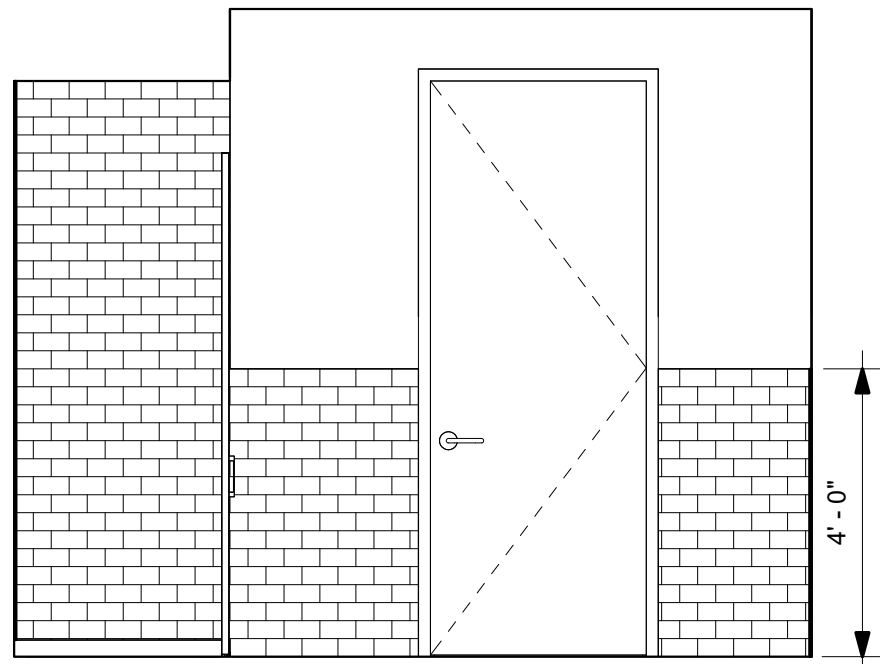
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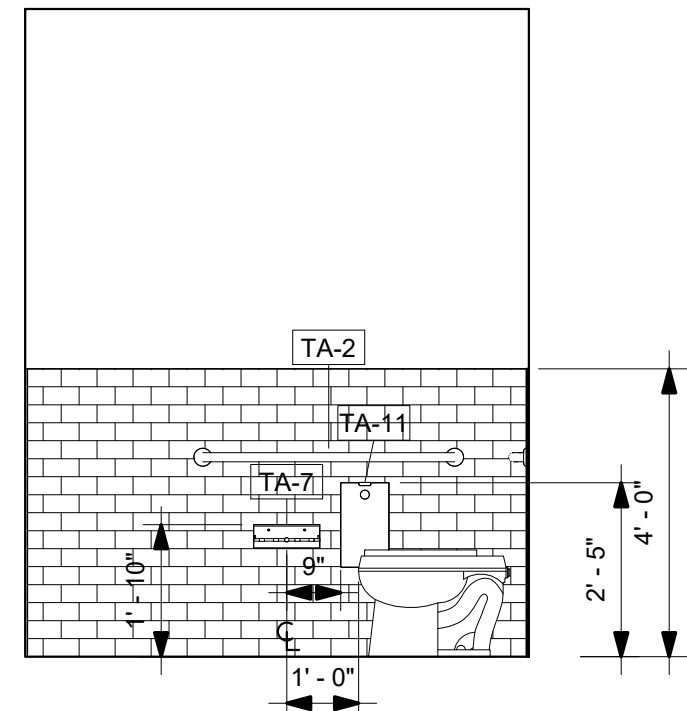
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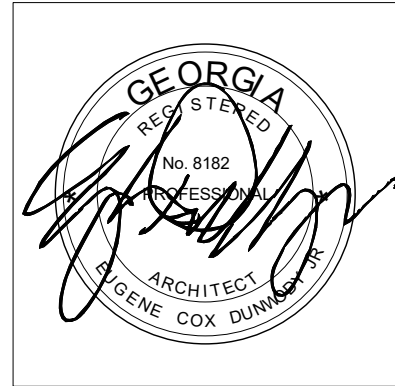
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A8.2 214 UNISEX RESTROOM  
SCALE: 3/8" = 1'-0"



17  
A8.2 214 UNISEX RESTROOM  
SCALE: 3/8" = 1'-0"



18  
A8.2 214 UNISEX RESTROOM  
SCALE: 3/8" = 1'-0"



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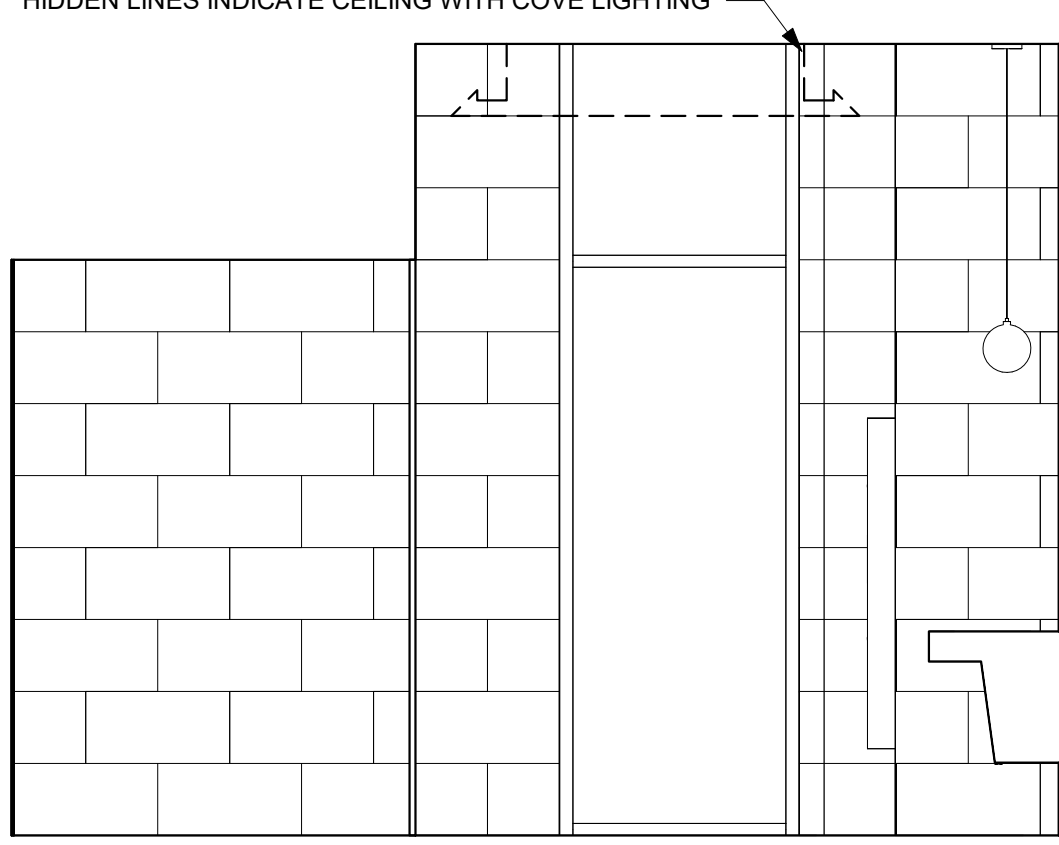
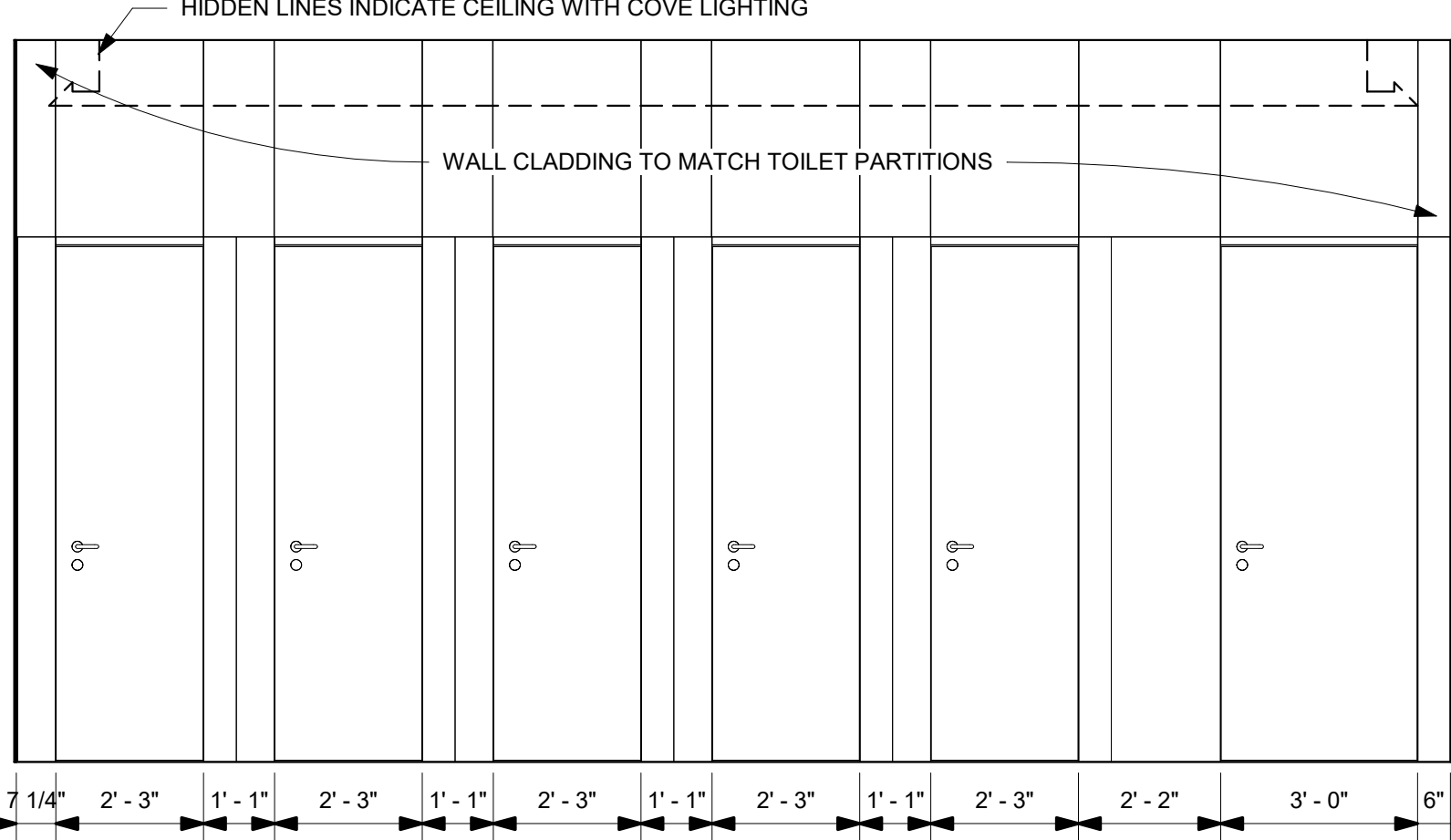
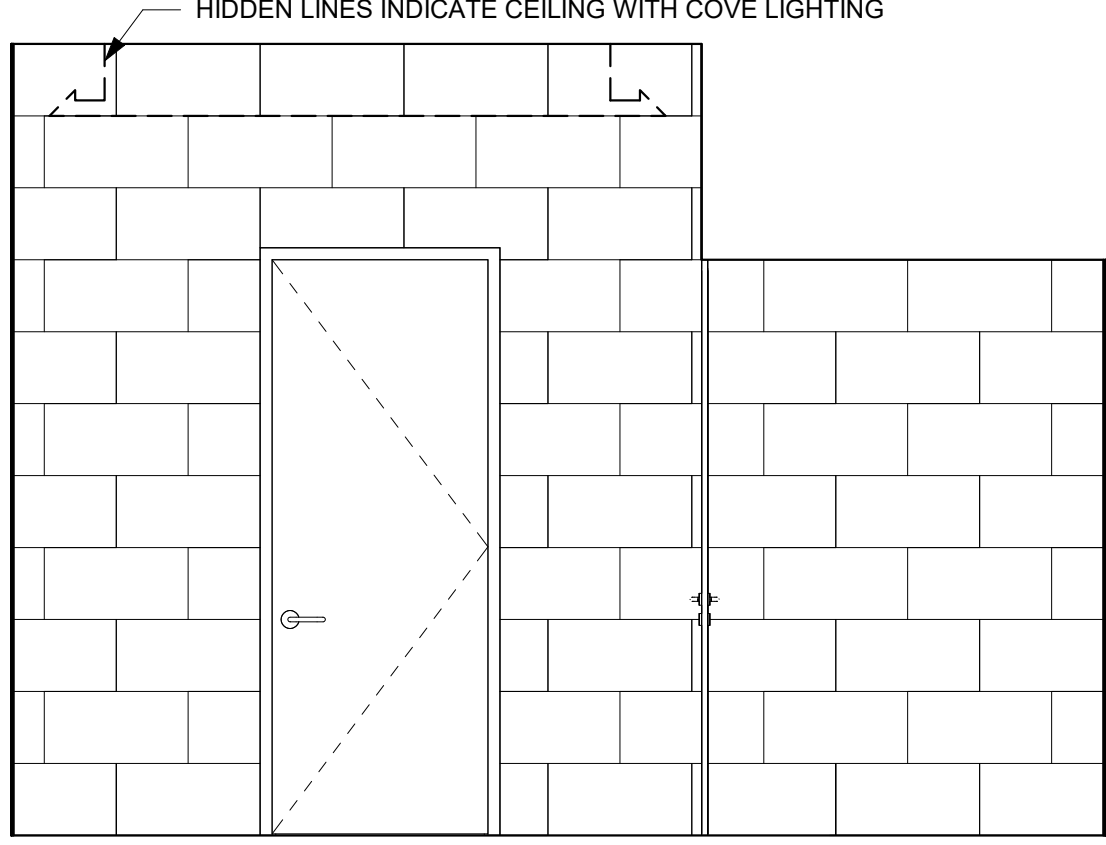
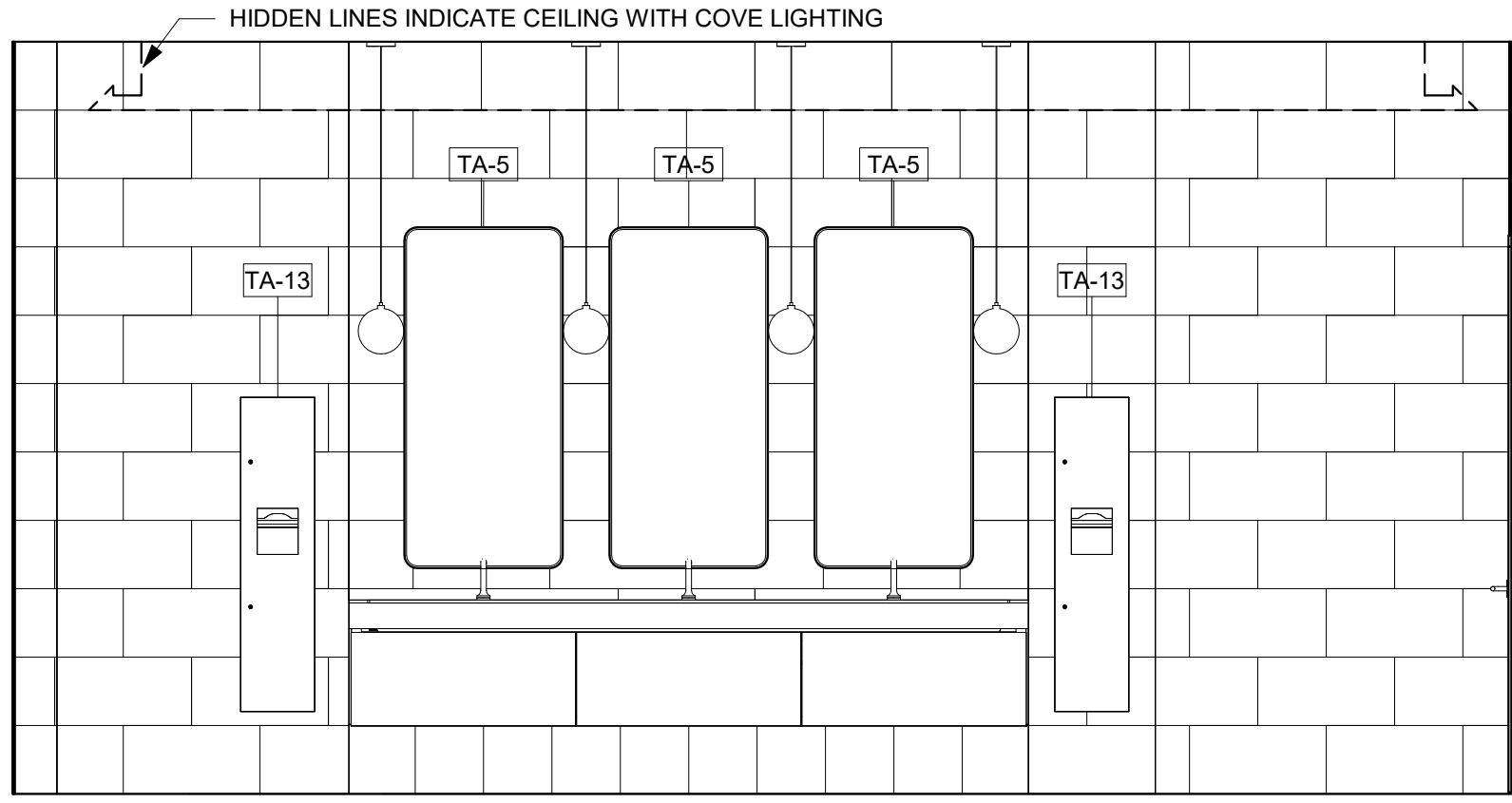
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**Sheet Title:**  
**INTERIOR**  
**ELEVATIONS**

**Project #:** 2229 **Date:** 4/18/2025

**A8.2**

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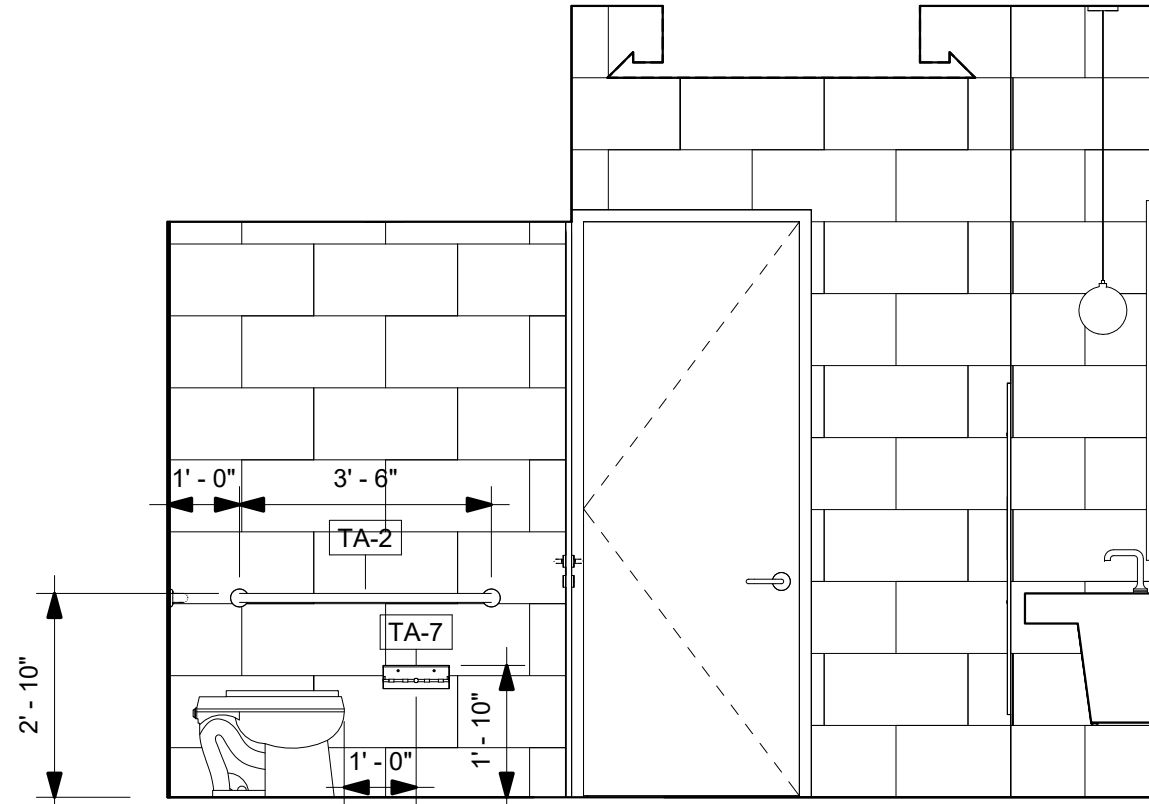
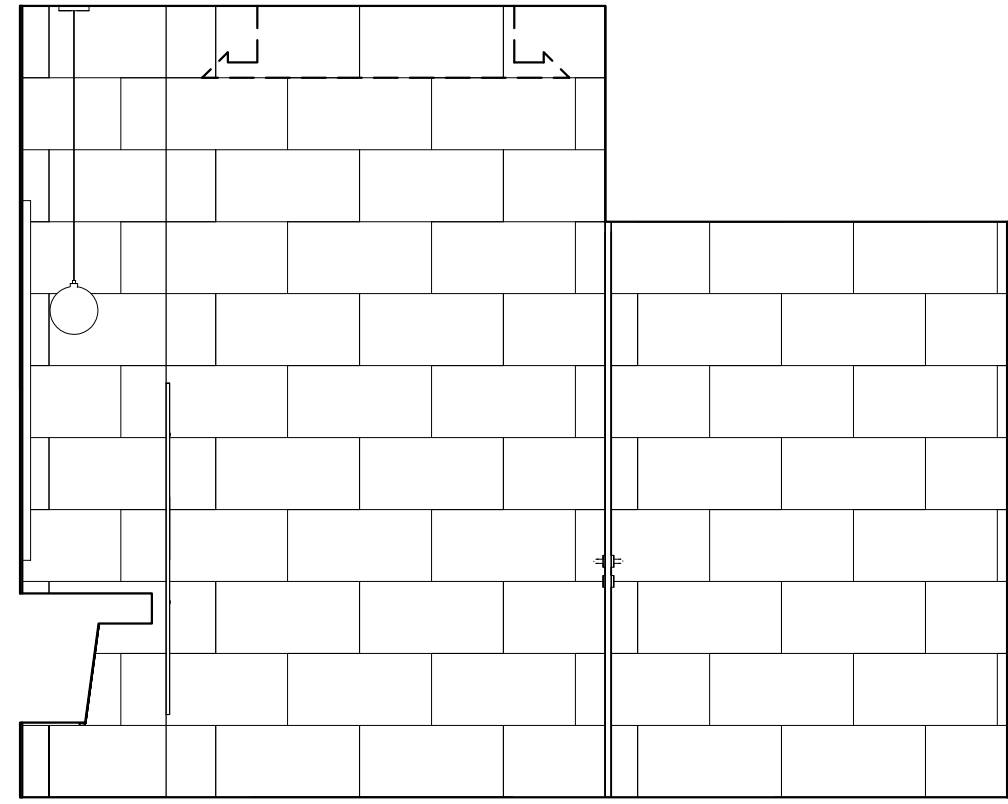
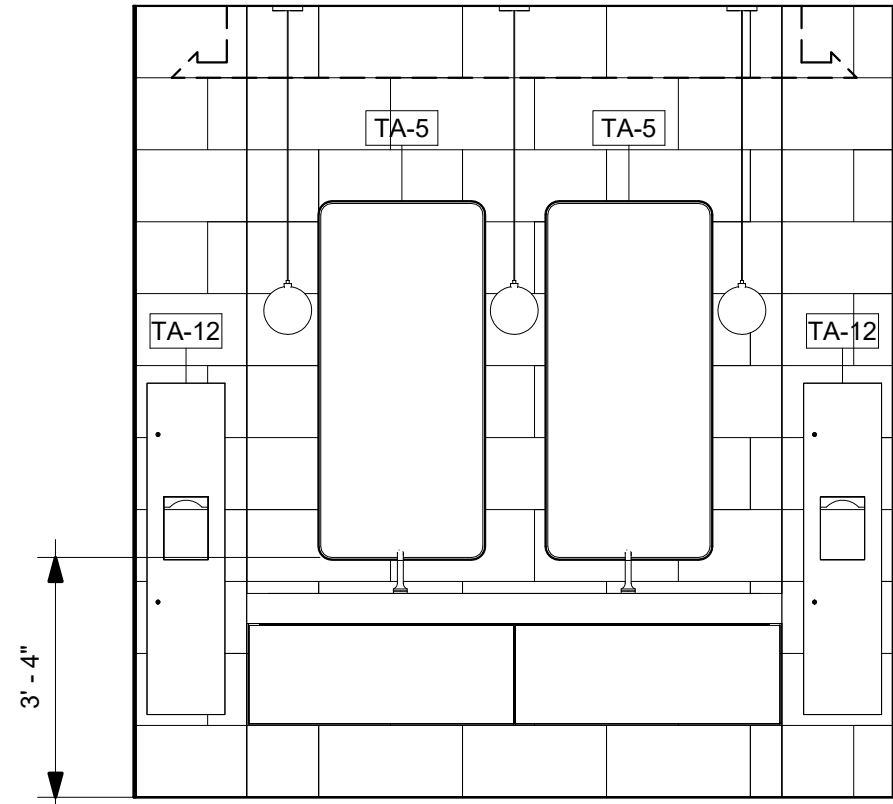
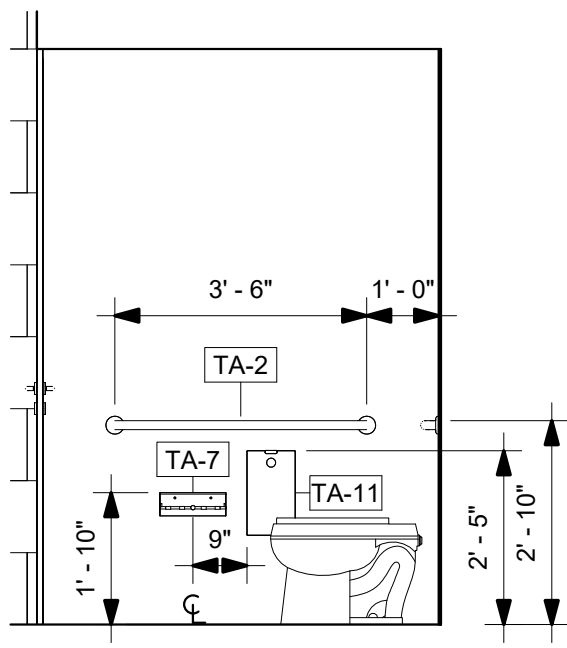
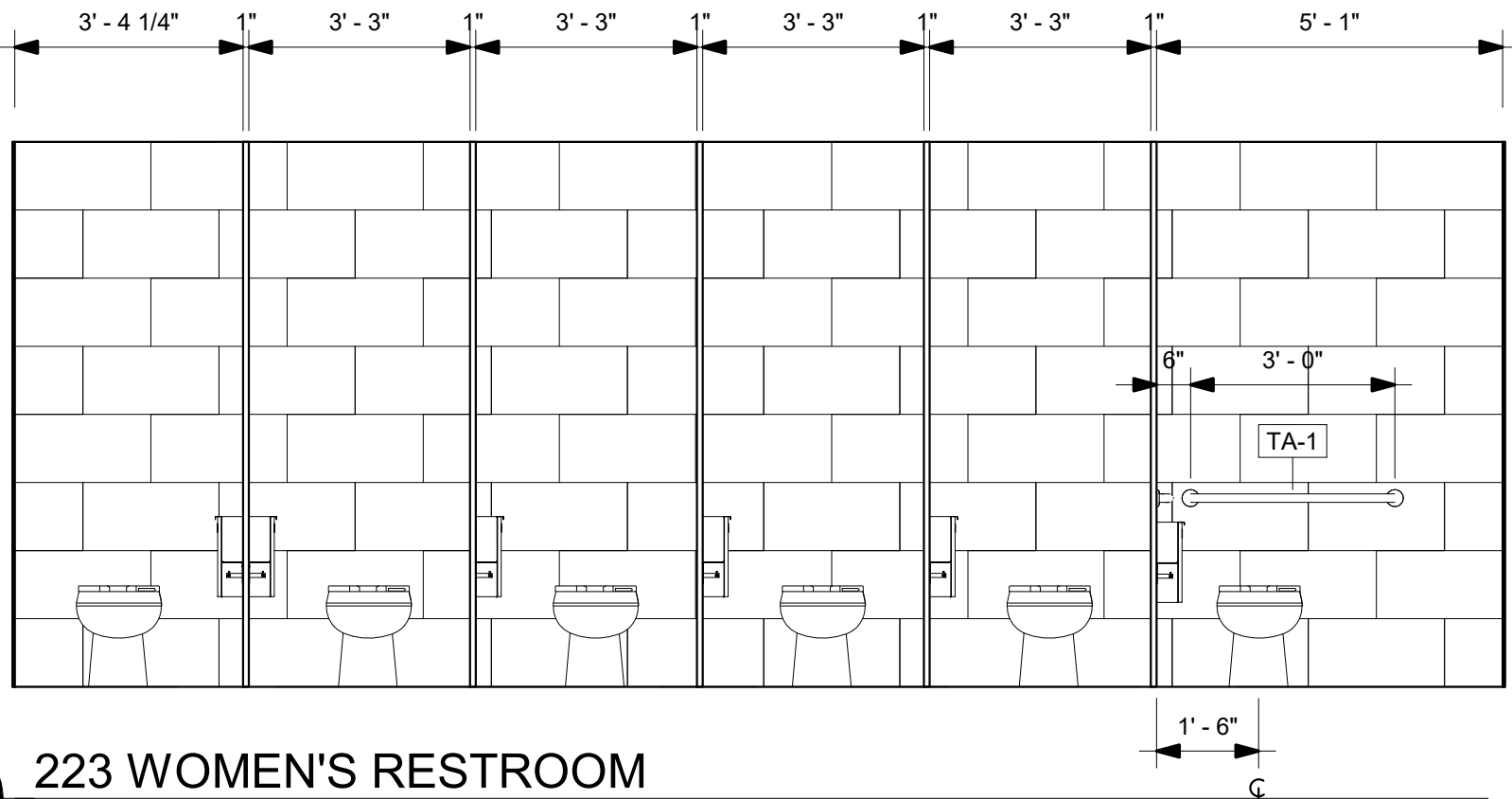


1  
A8.3 223 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

2  
A8.3 223 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

3  
A8.3 223 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

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



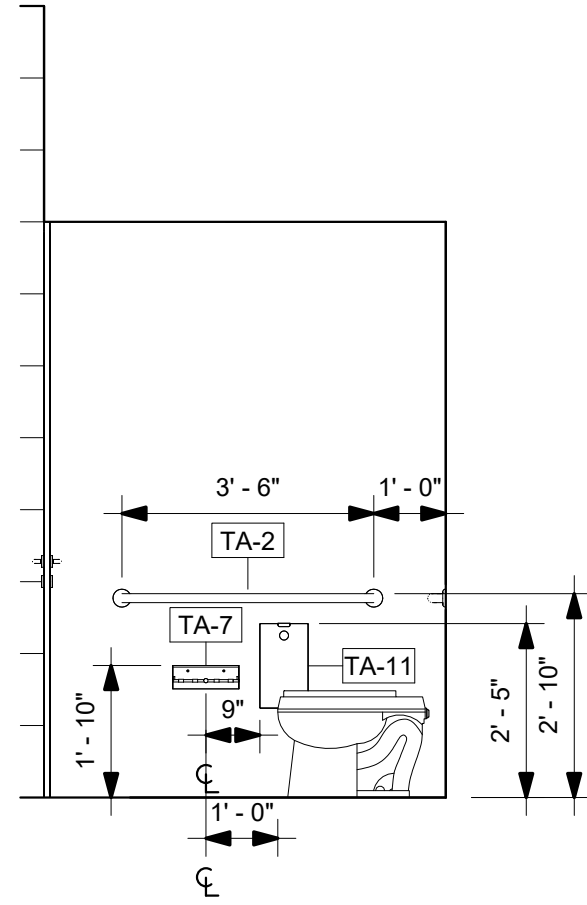
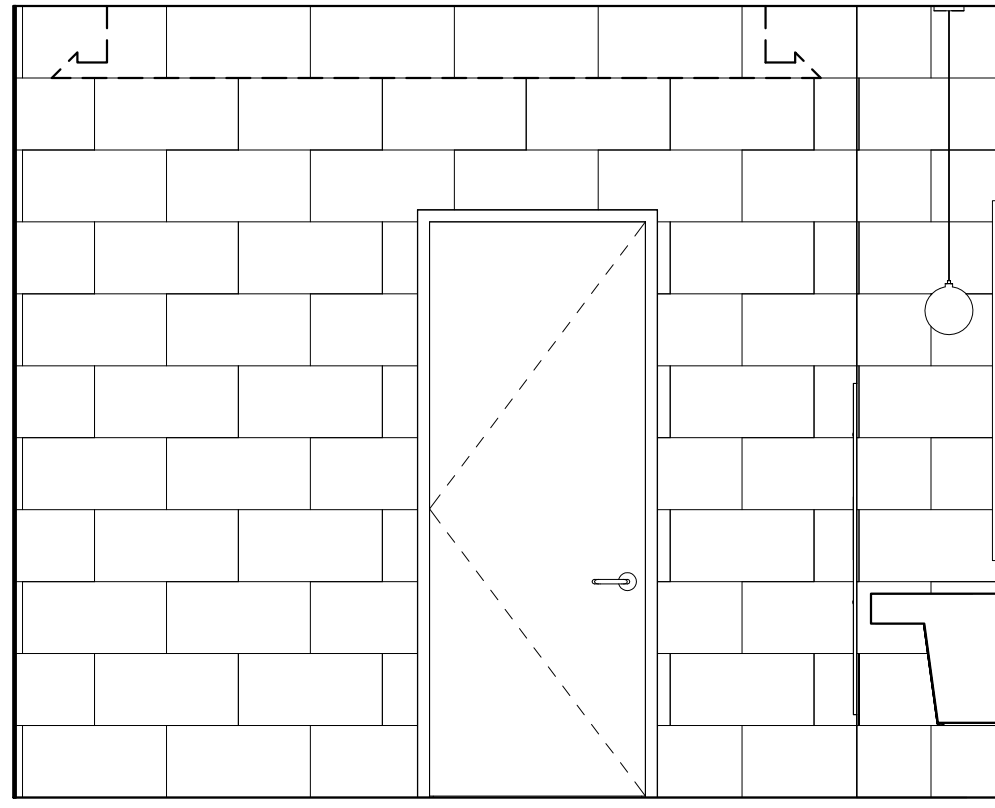
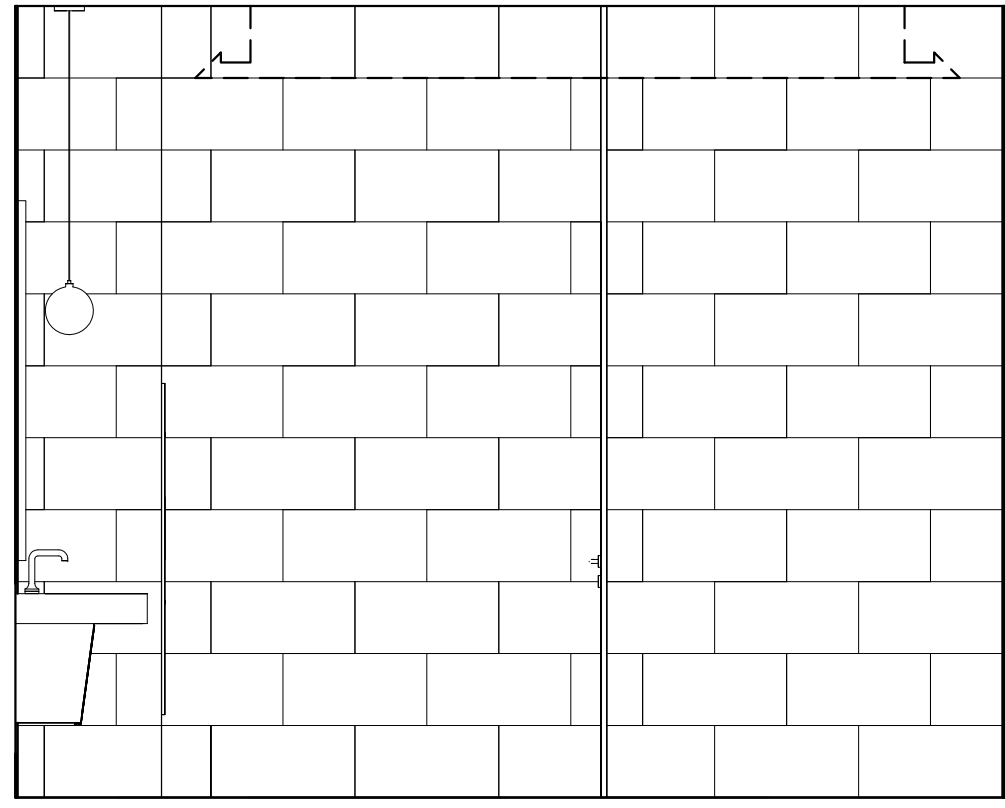
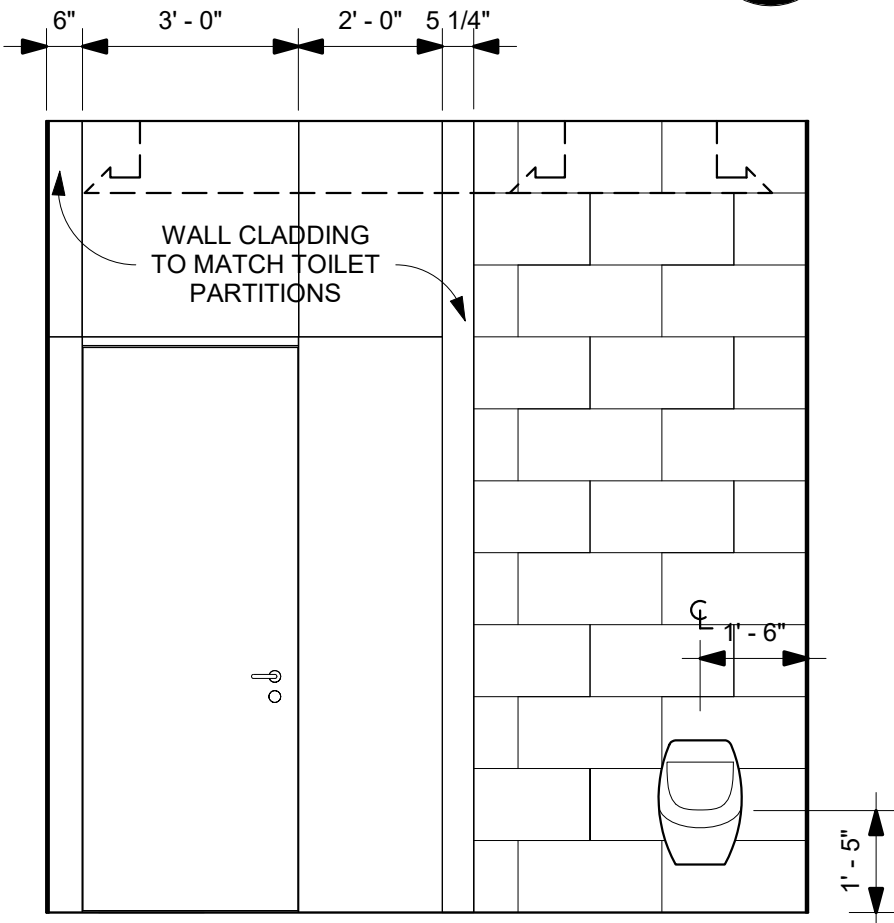
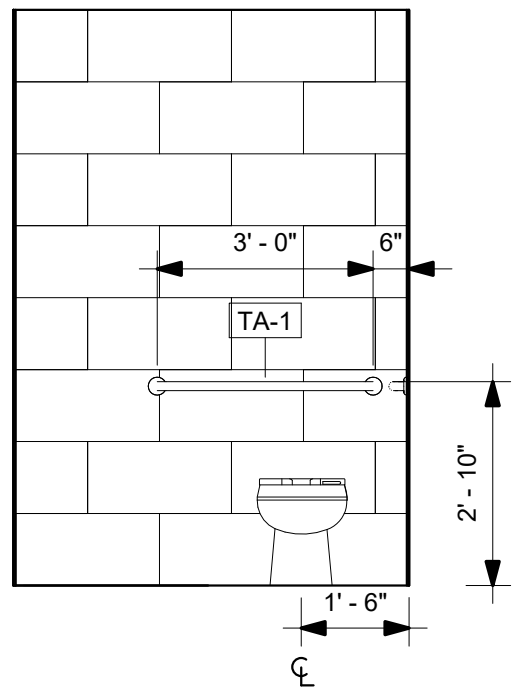
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A8.3 223 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

6  
A8.3 223 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

7  
A8.3 303 MEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

8  
A8.3 303 MEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

9  
A8.3 303 MEN'S RESTROOM  
SCALE: 3/8" = 1'-0"



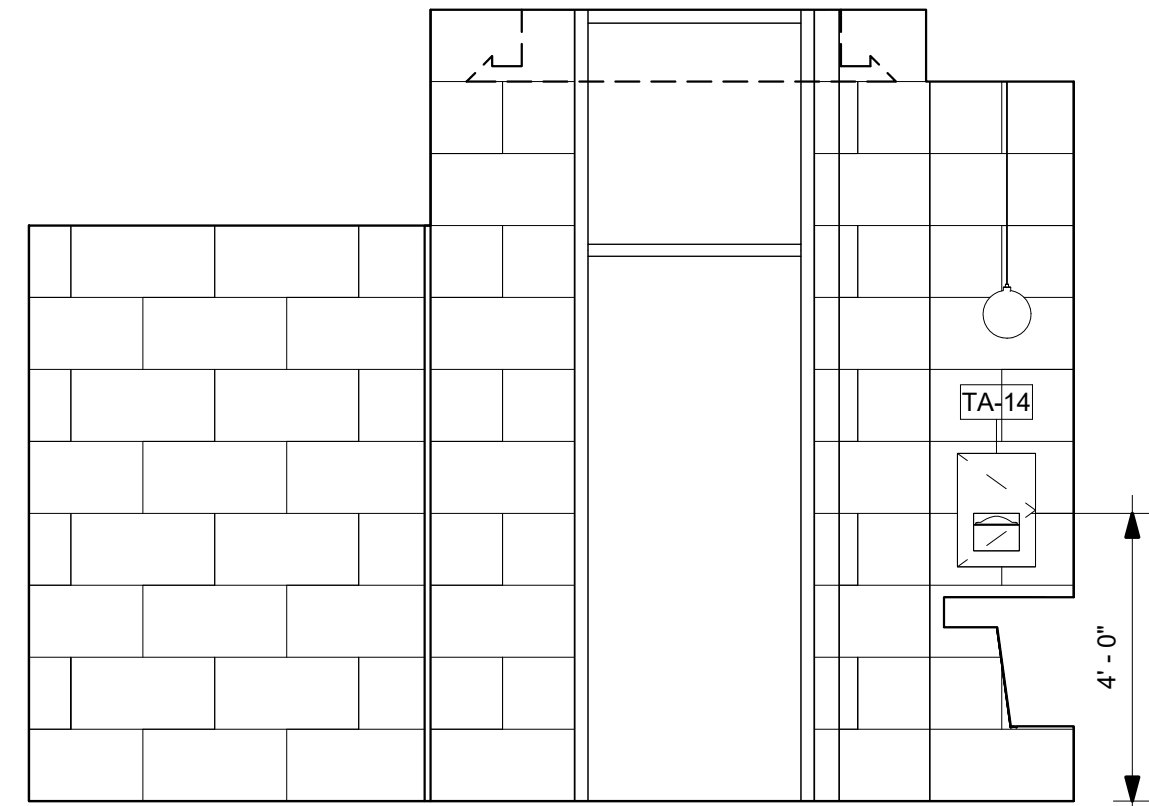
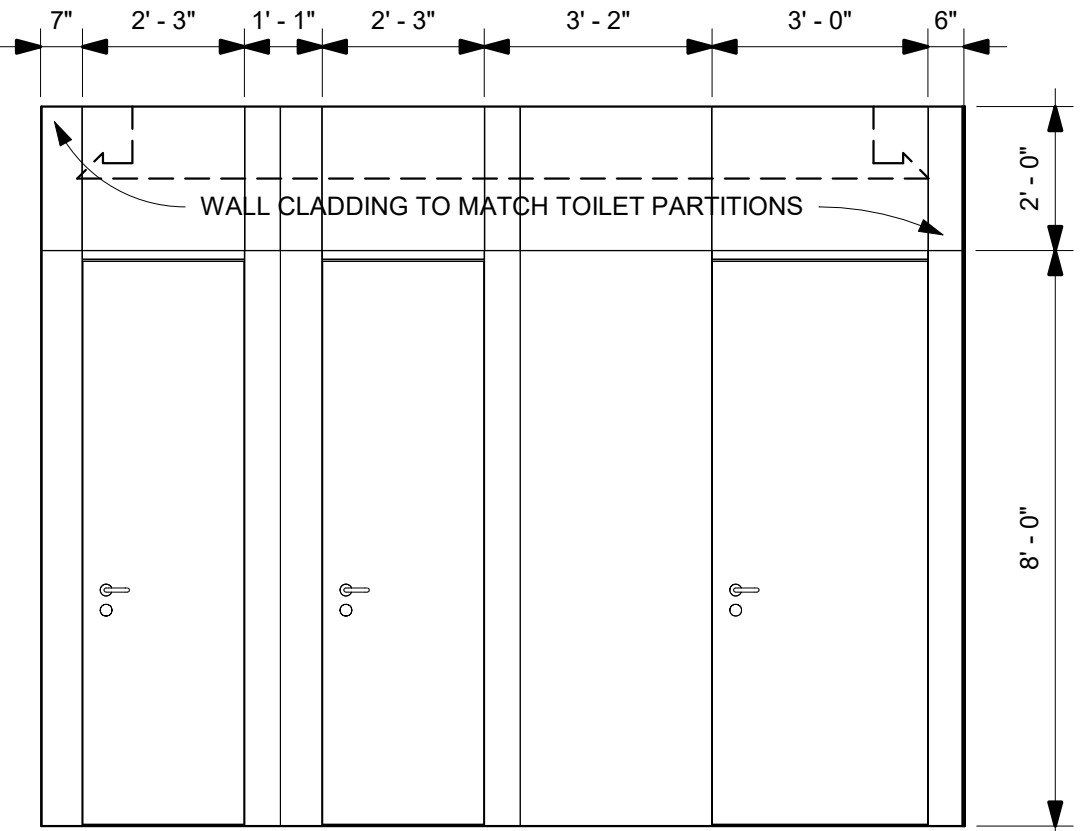
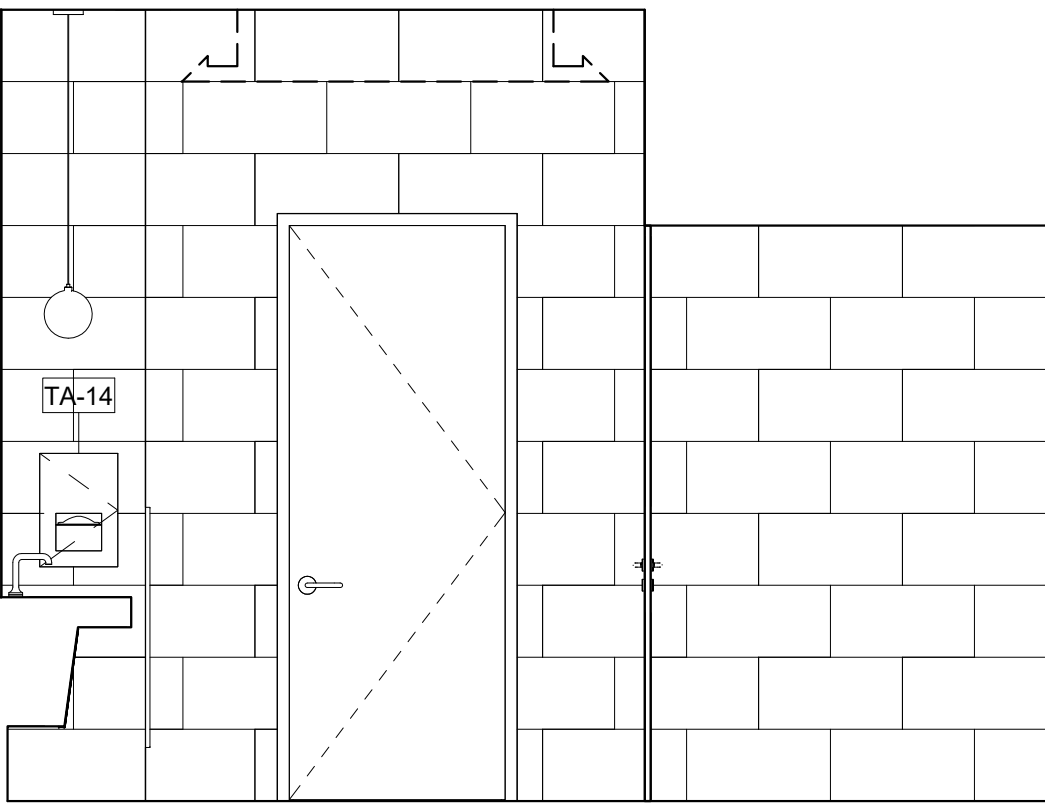
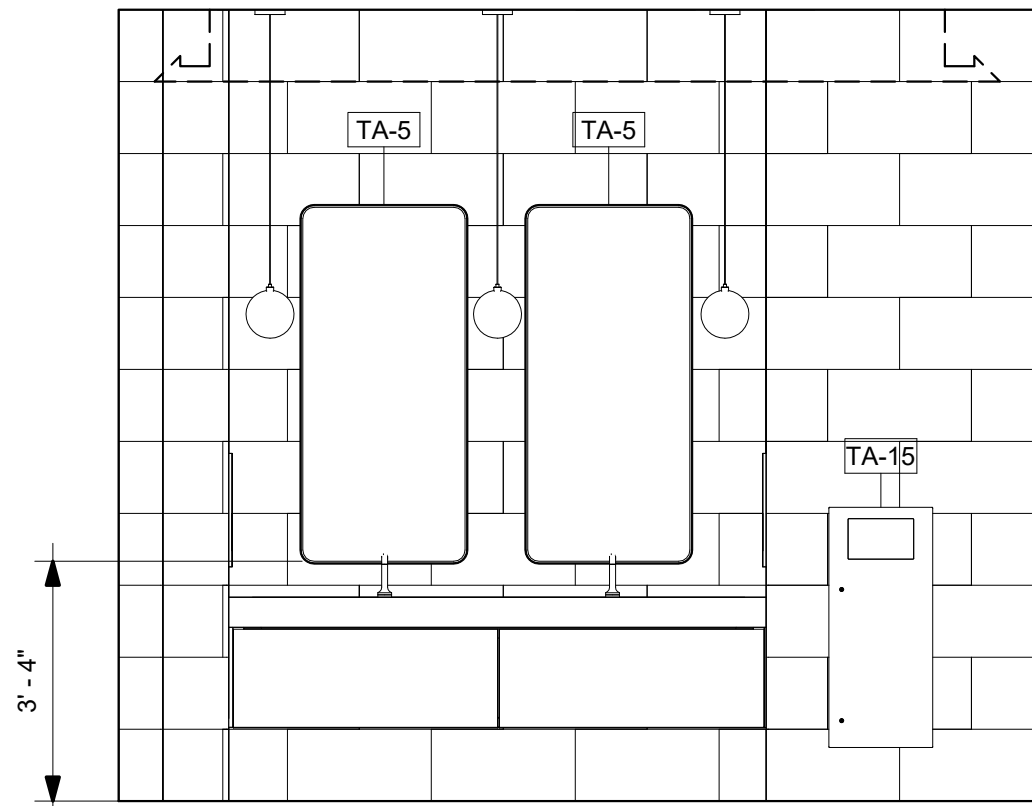
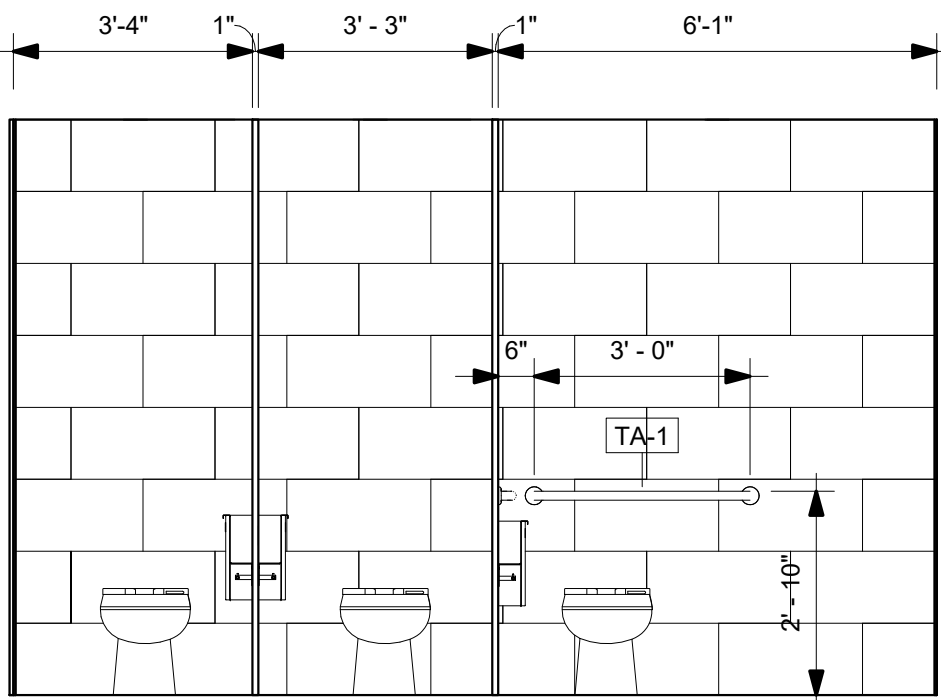
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SCALE: 3/8" = 1'-0"

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

13  
A8.3 303 MEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

14  
A8.3 303 MEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

15  
A8.3 305 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"



16  
A8.3 305 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

17  
A8.3 305 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

18  
A8.3 305 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

19  
A8.3 305 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"

20  
A8.3 305 WOMEN'S RESTROOM  
SCALE: 3/8" = 1'-0"



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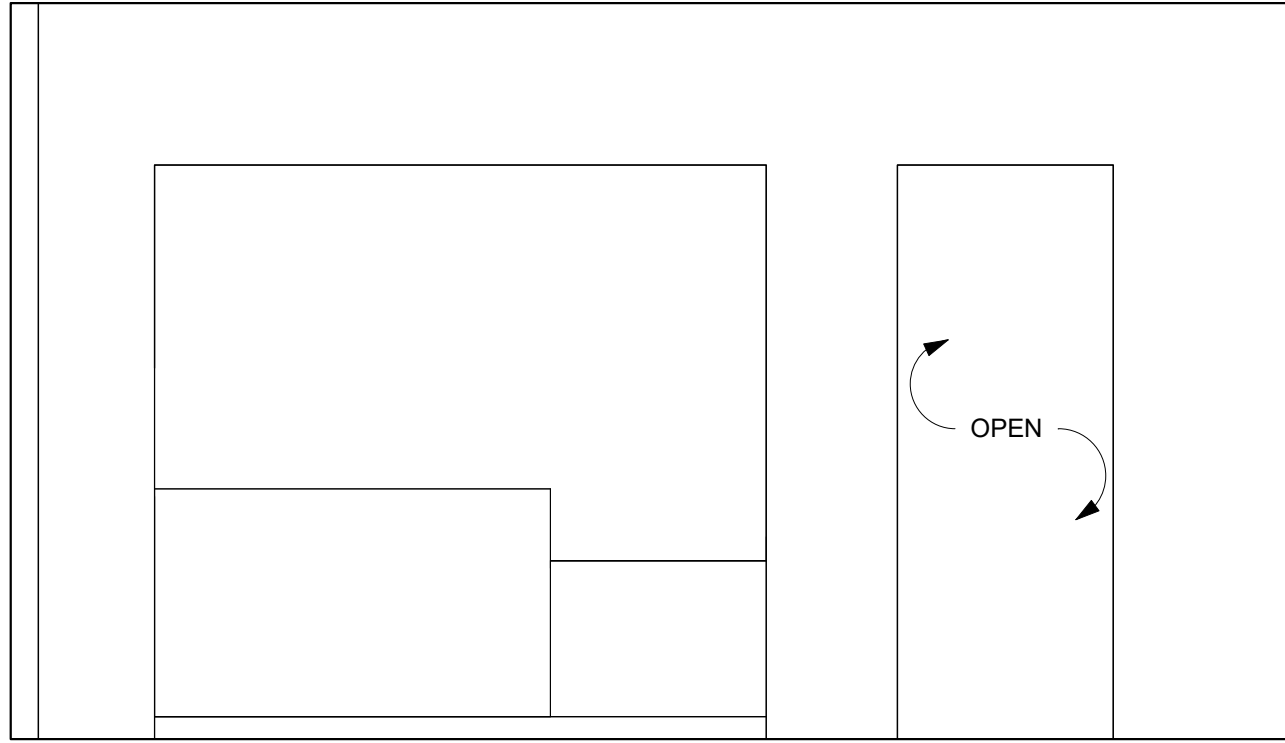
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Sheet Title:  
**INTERIOR  
ELEVATIONS**

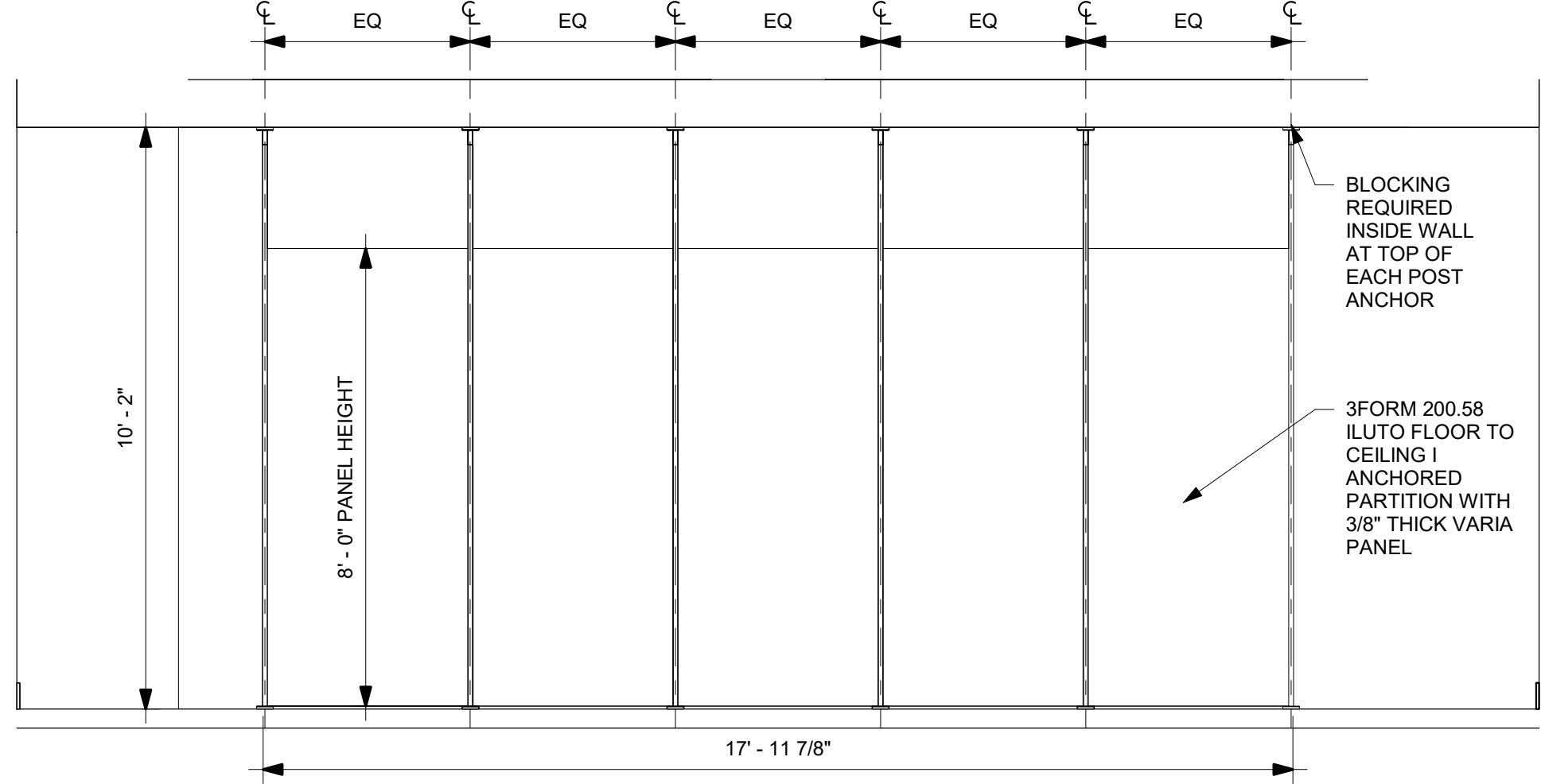
Project #: 2229 Date: 4/18/2025

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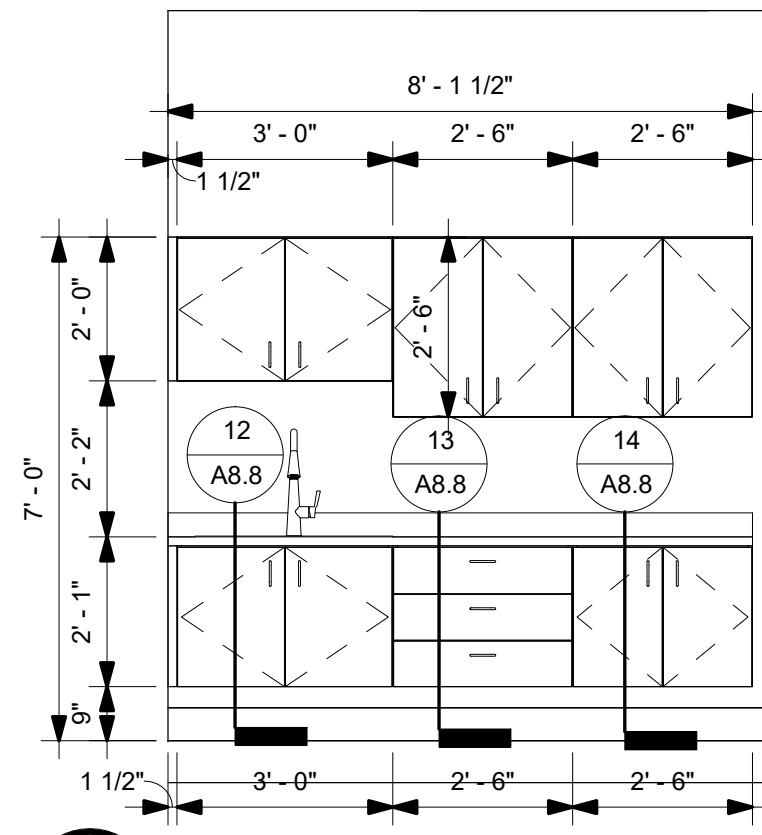
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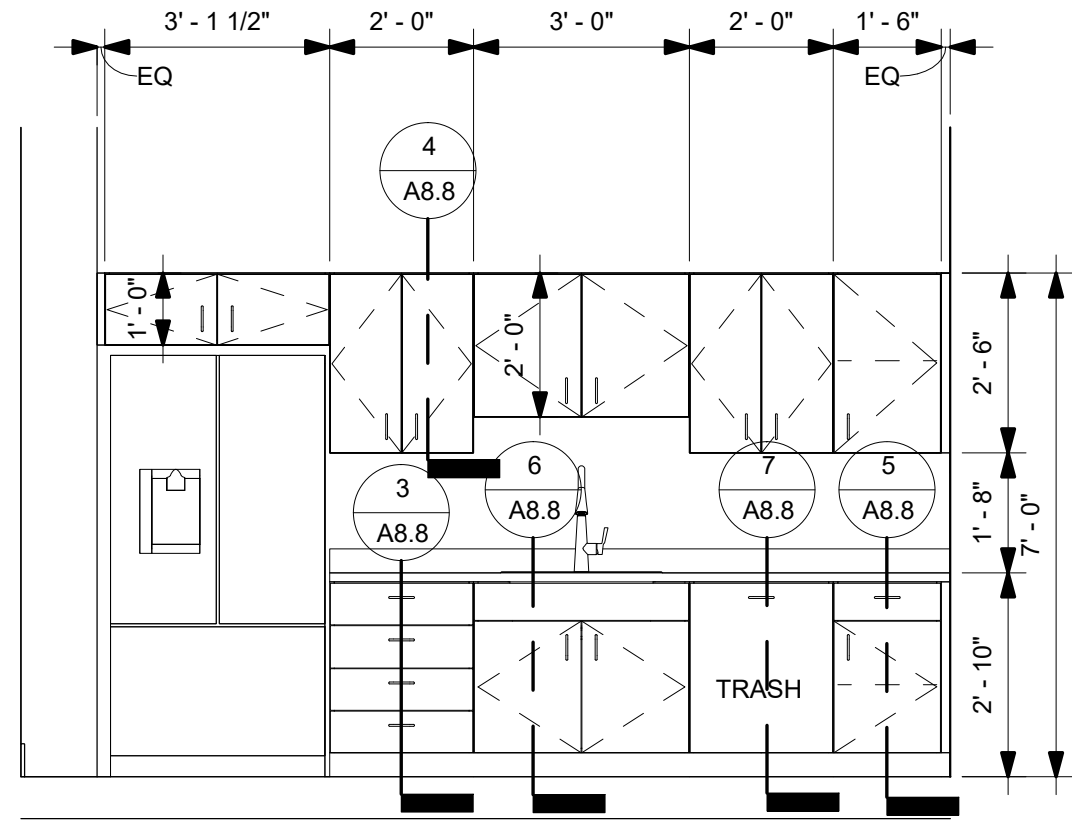
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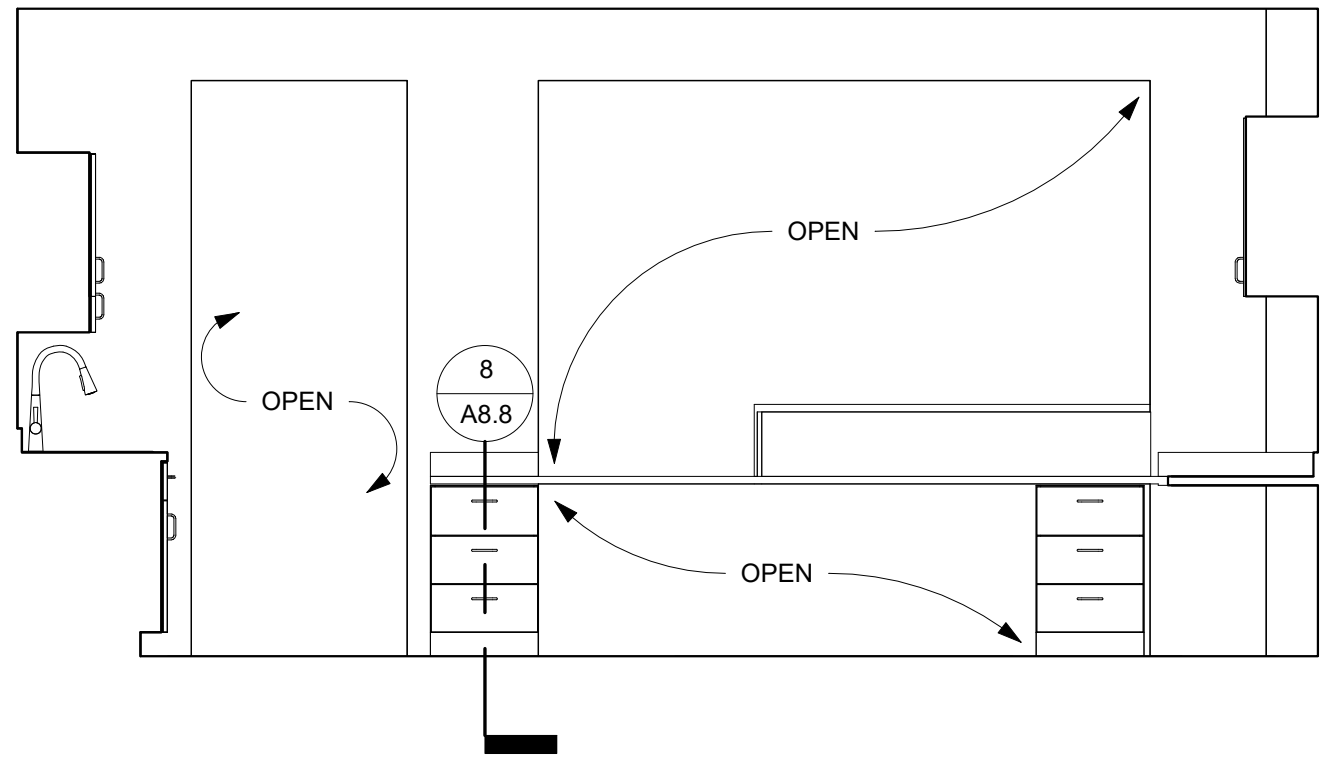
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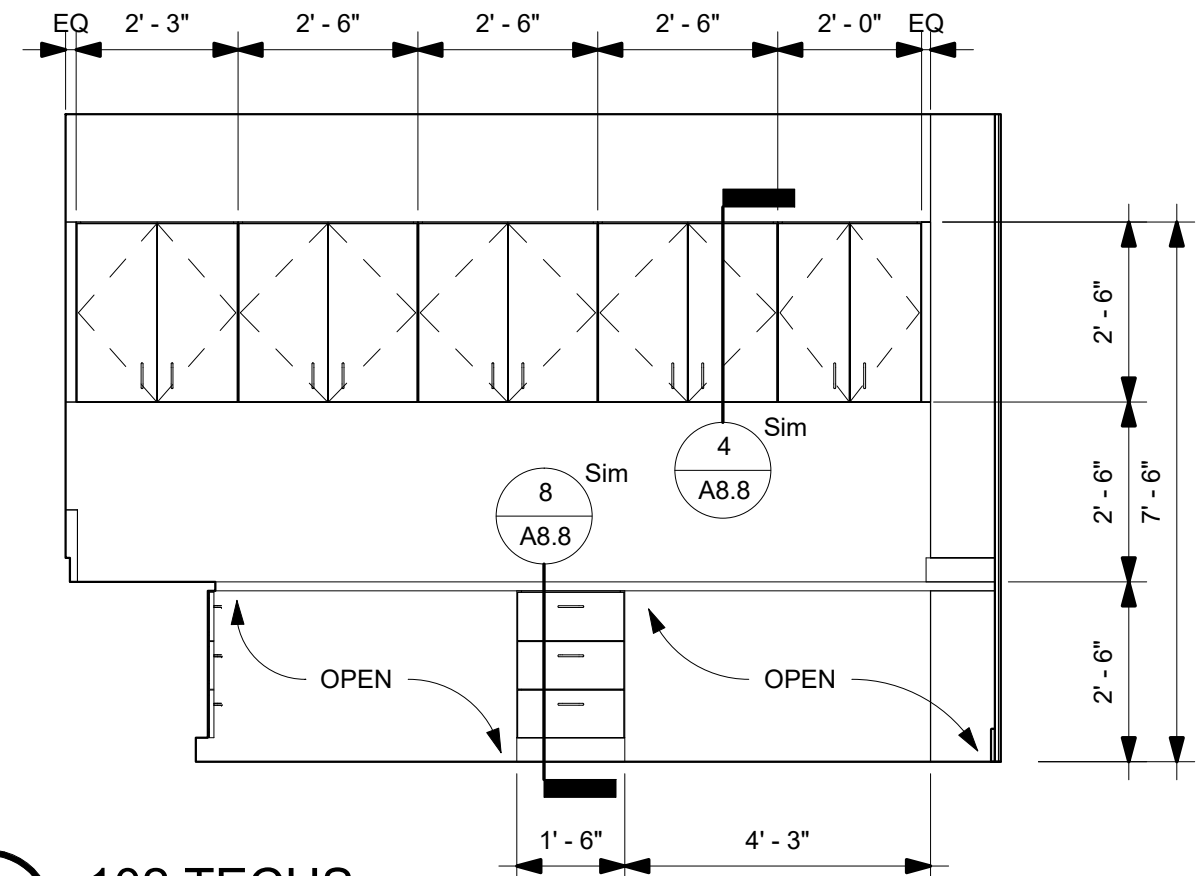
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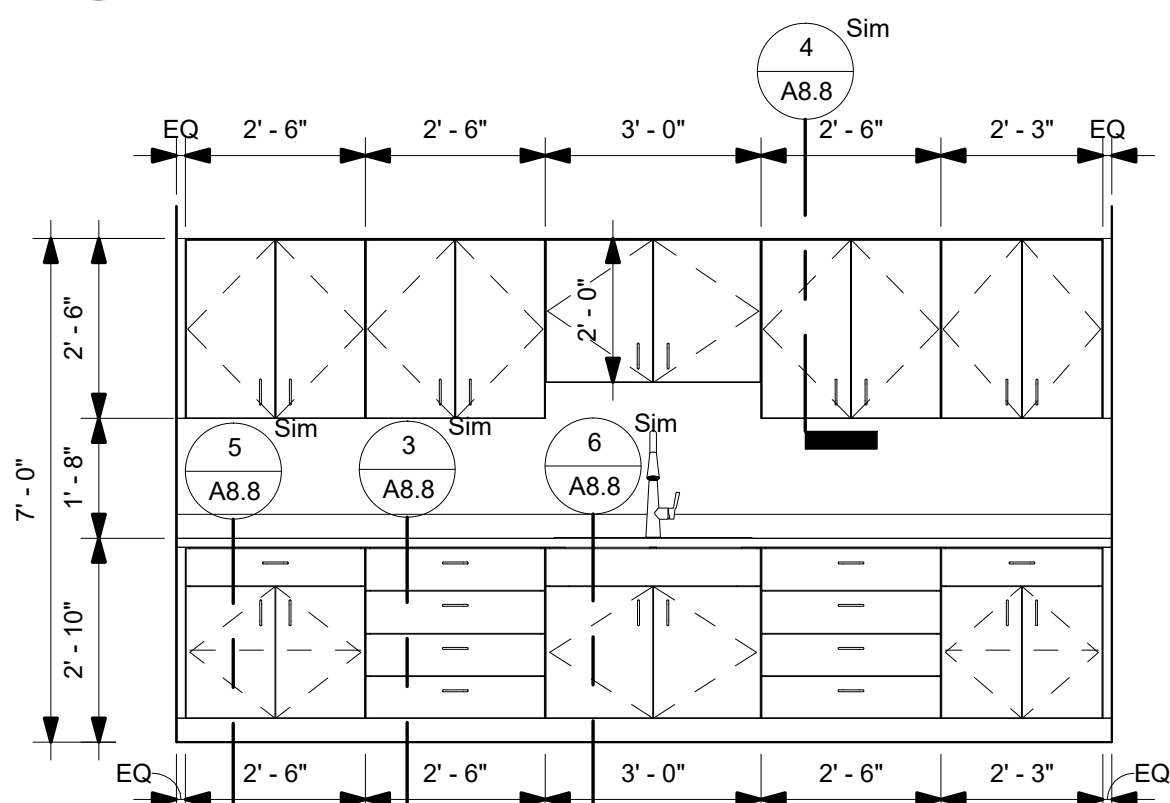
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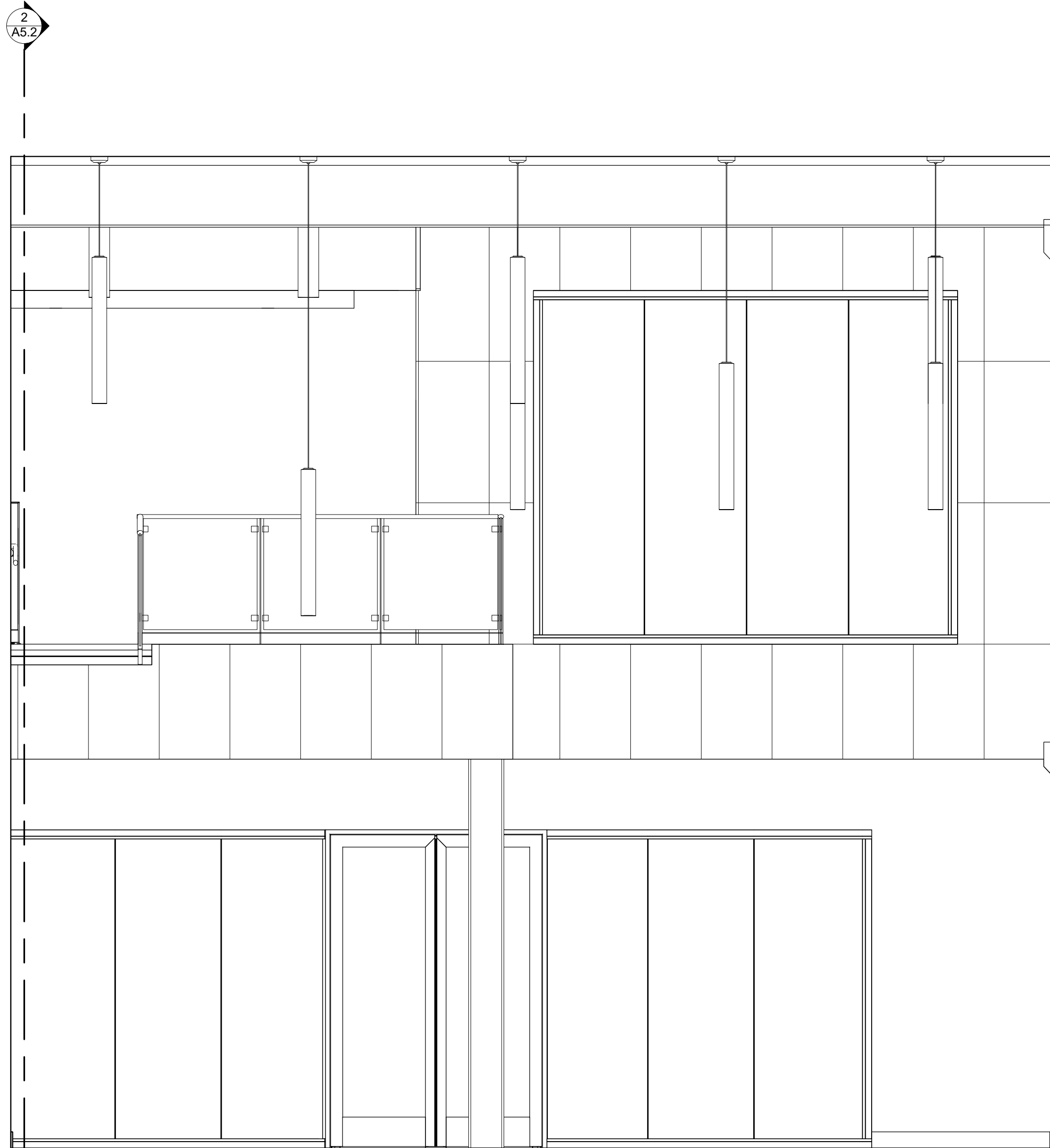
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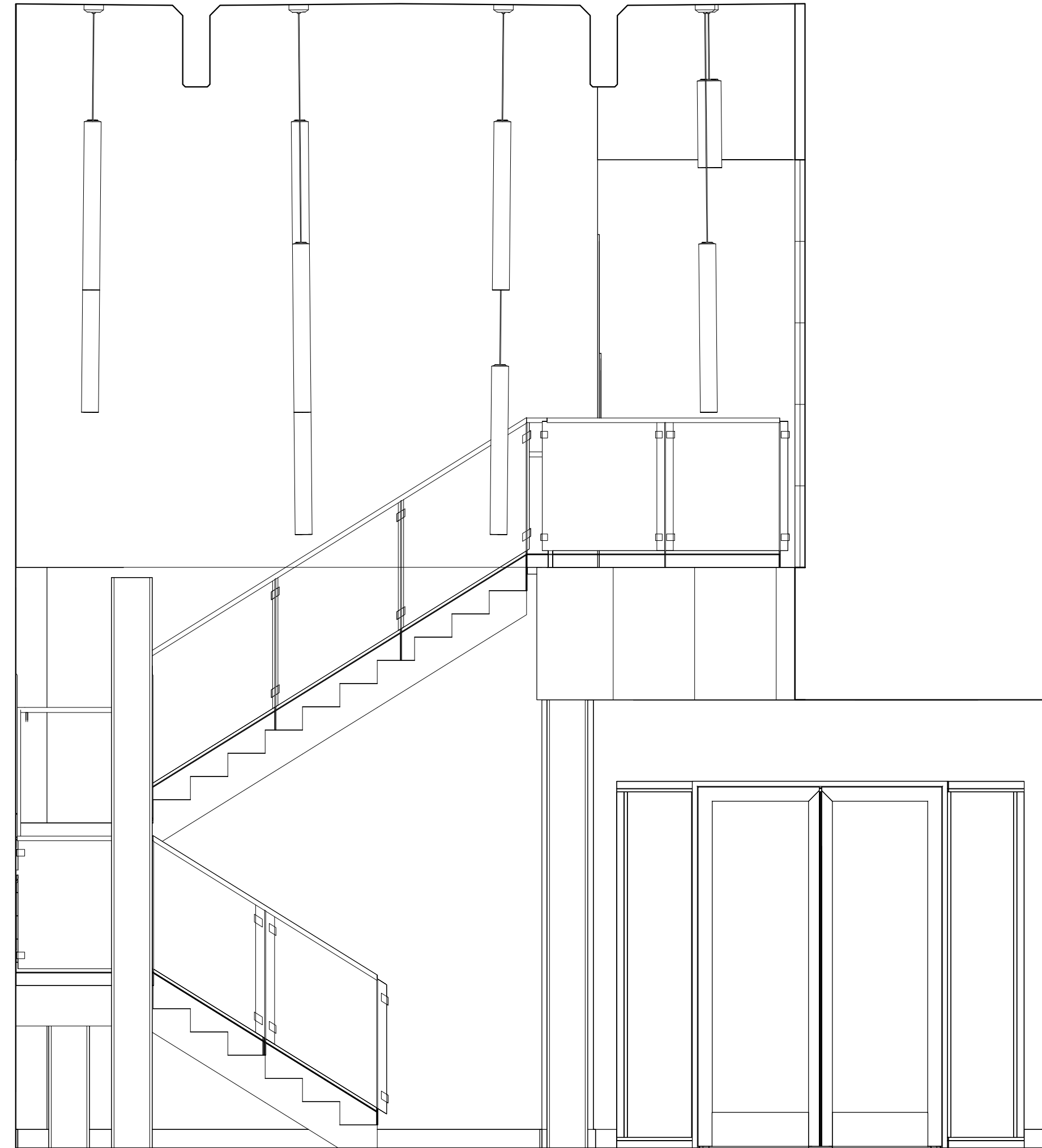
6 102 TECHS  
SCALE: 3/8" = 1'-0"



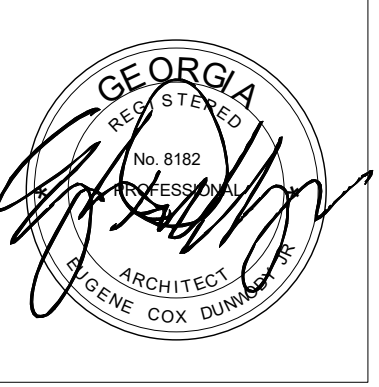
7 111 CLEAN/DIRTY ROOM  
SCALE: 3/8" = 1'-0"



8 100 VESTIBULE  
SCALE: 3/8" = 1'-0"



9 100 VESTIBULE  
SCALE: 3/8" = 1'-0"



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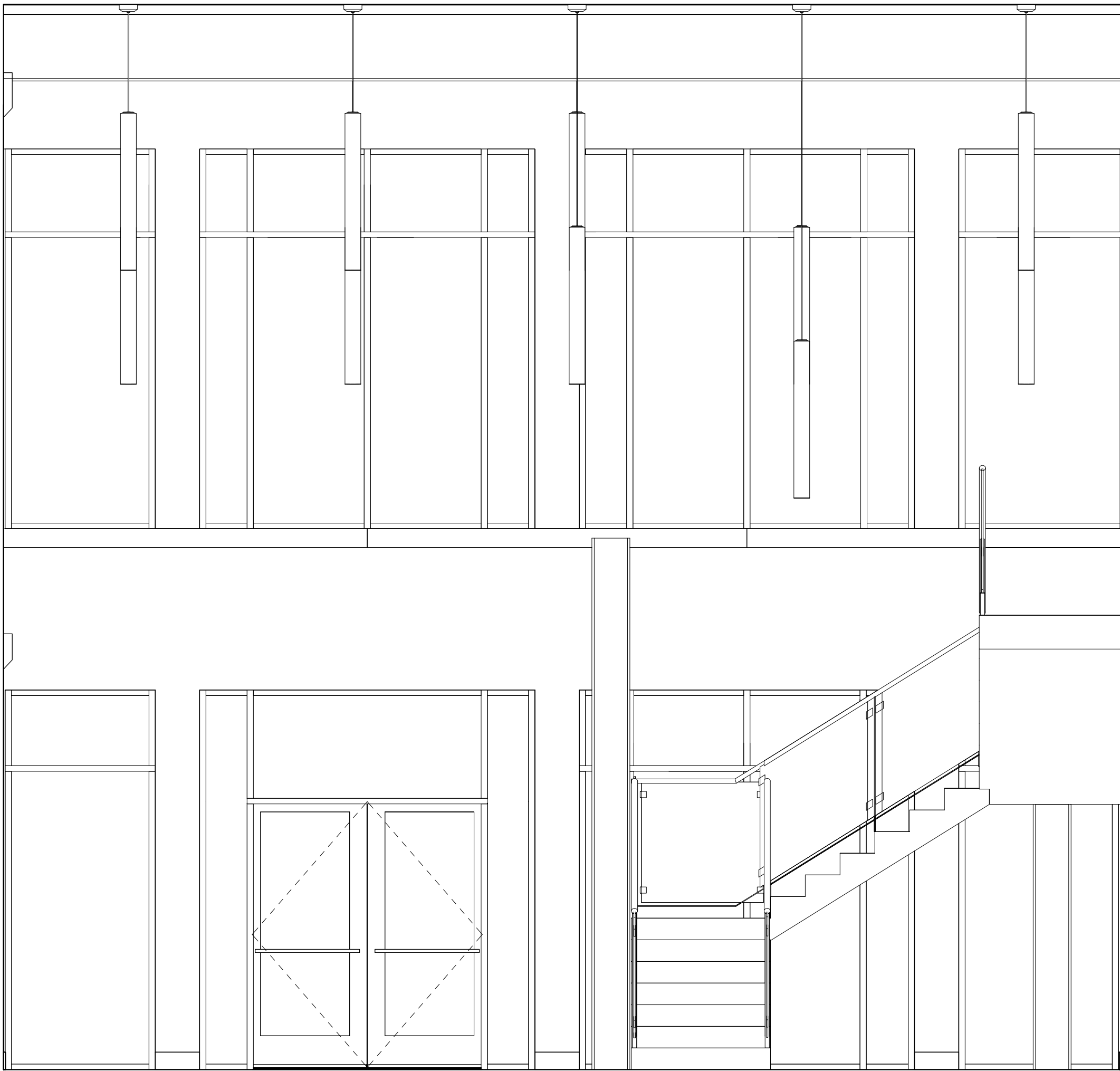
Sheet Title:  
**INTERIOR  
ELEVATIONS**

Project #: 2229    Date: 4/18/2025

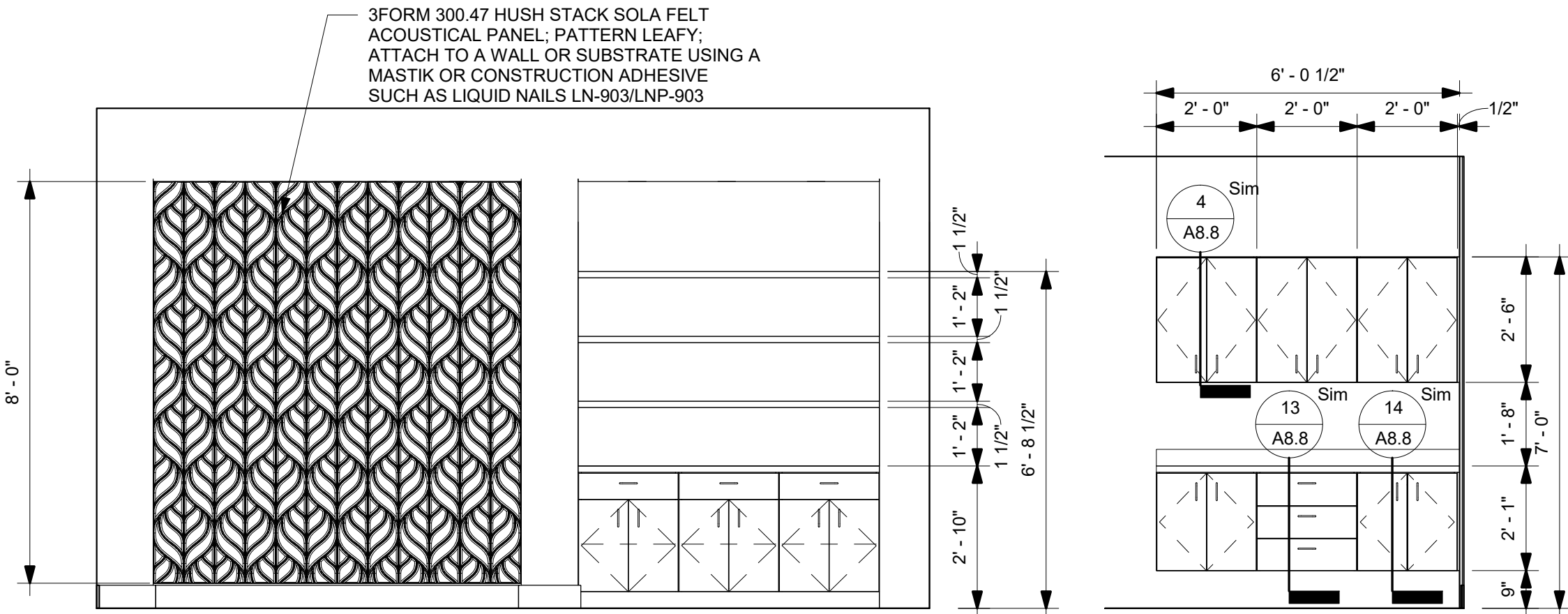
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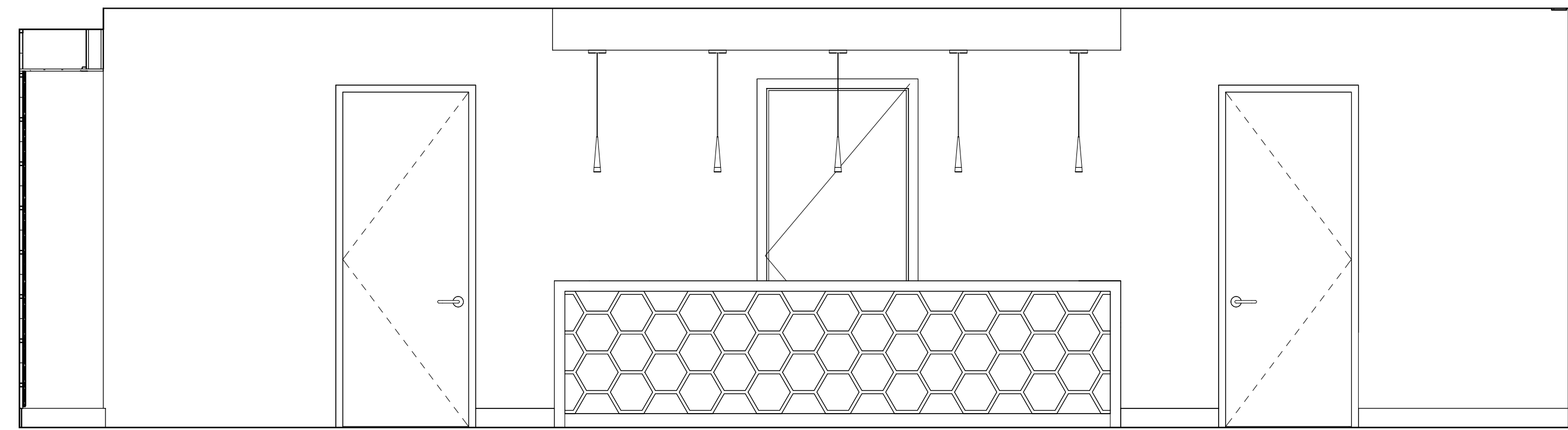
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A8.5  
100 VESTIBULE-3  
SCALE: 3/8" = 1'-0"



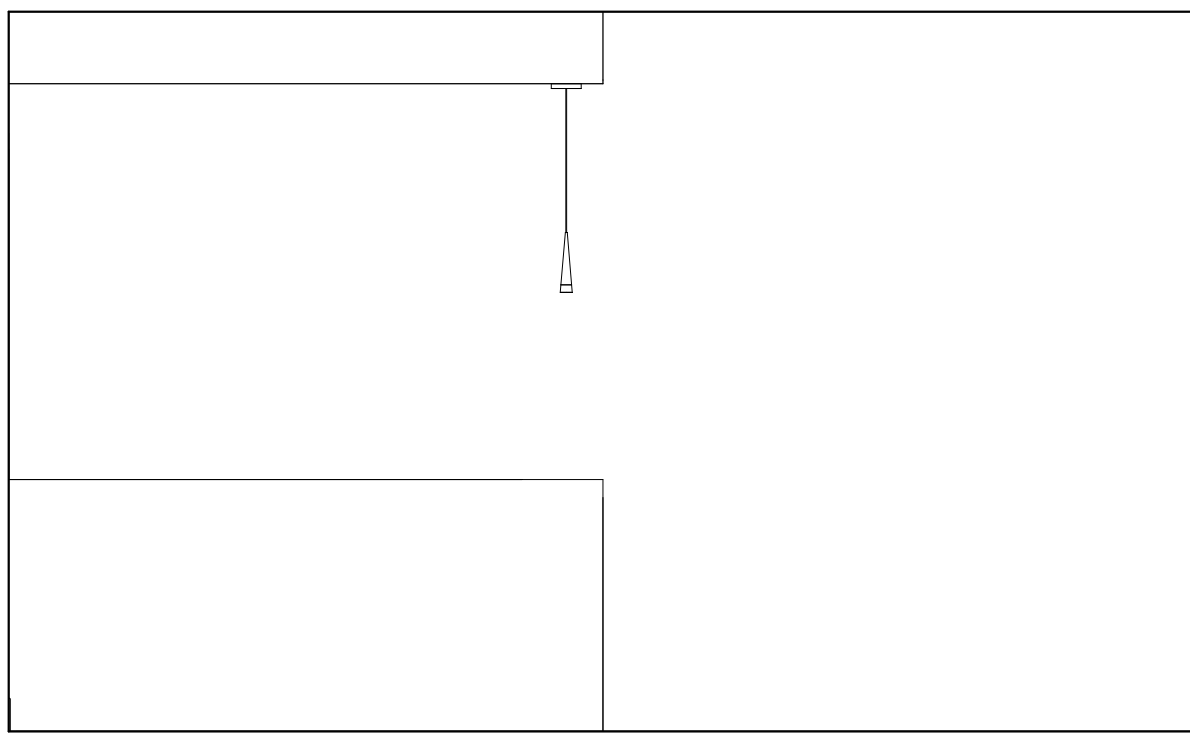
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113 WAITING ROOM-4  
SCALE: 3/8" = 1'-0"

6  
A8.5  
114 VITALS-1  
SCALE: 3/8" = 1'-0"

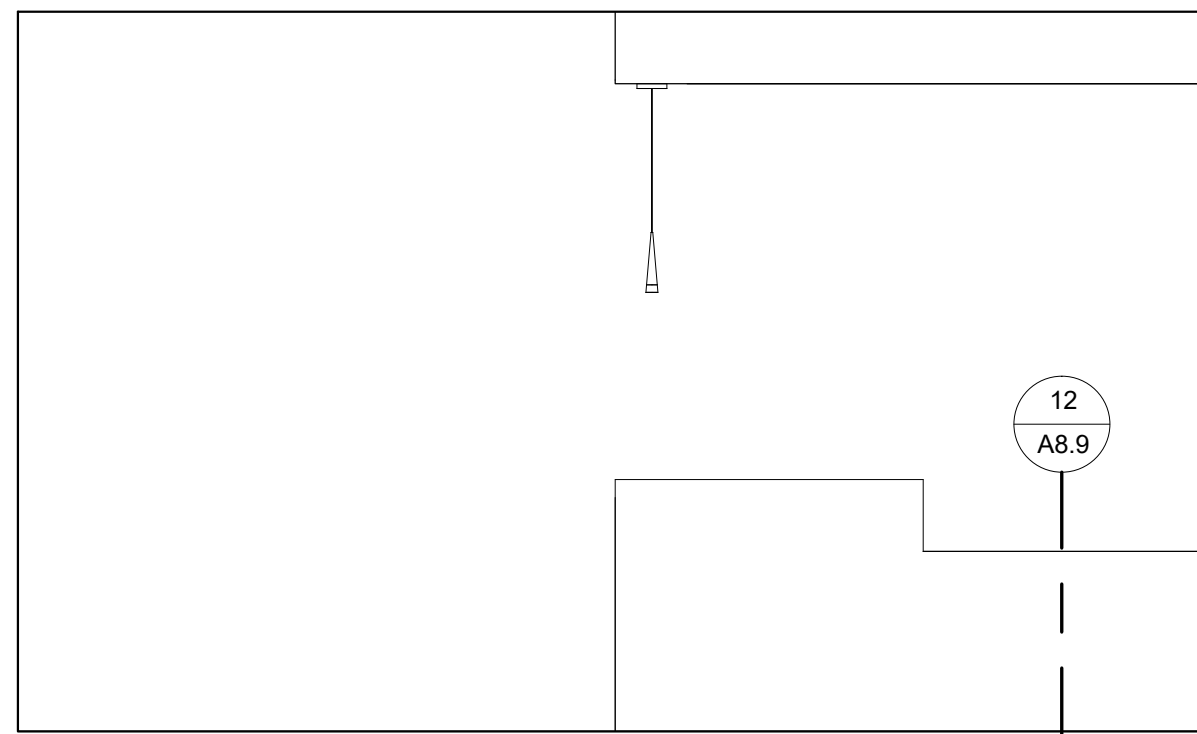
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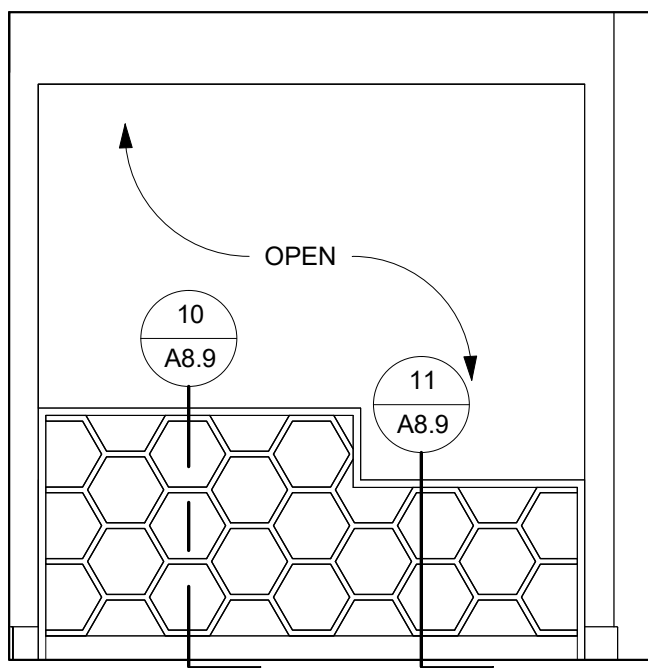
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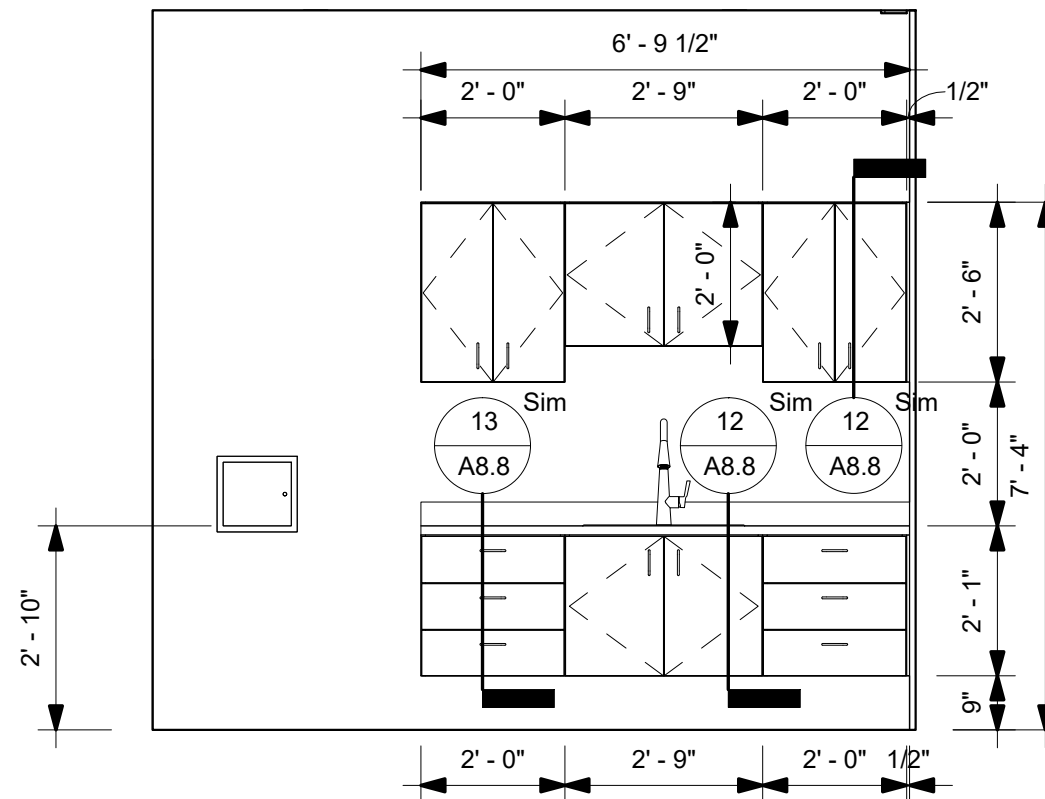
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SCALE: 3/8" = 1'-0"



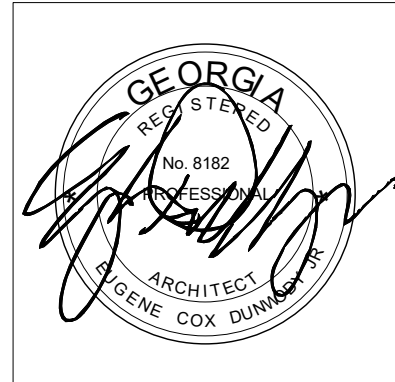
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A8.5  
113 WAITING ROOM-3  
SCALE: 3/8" = 1'-0"



8  
A8.5  
116 RECEPTION  
SCALE: 3/8" = 1'-0"



9  
A8.5  
118 LAB  
SCALE: 3/8" = 1'-0"



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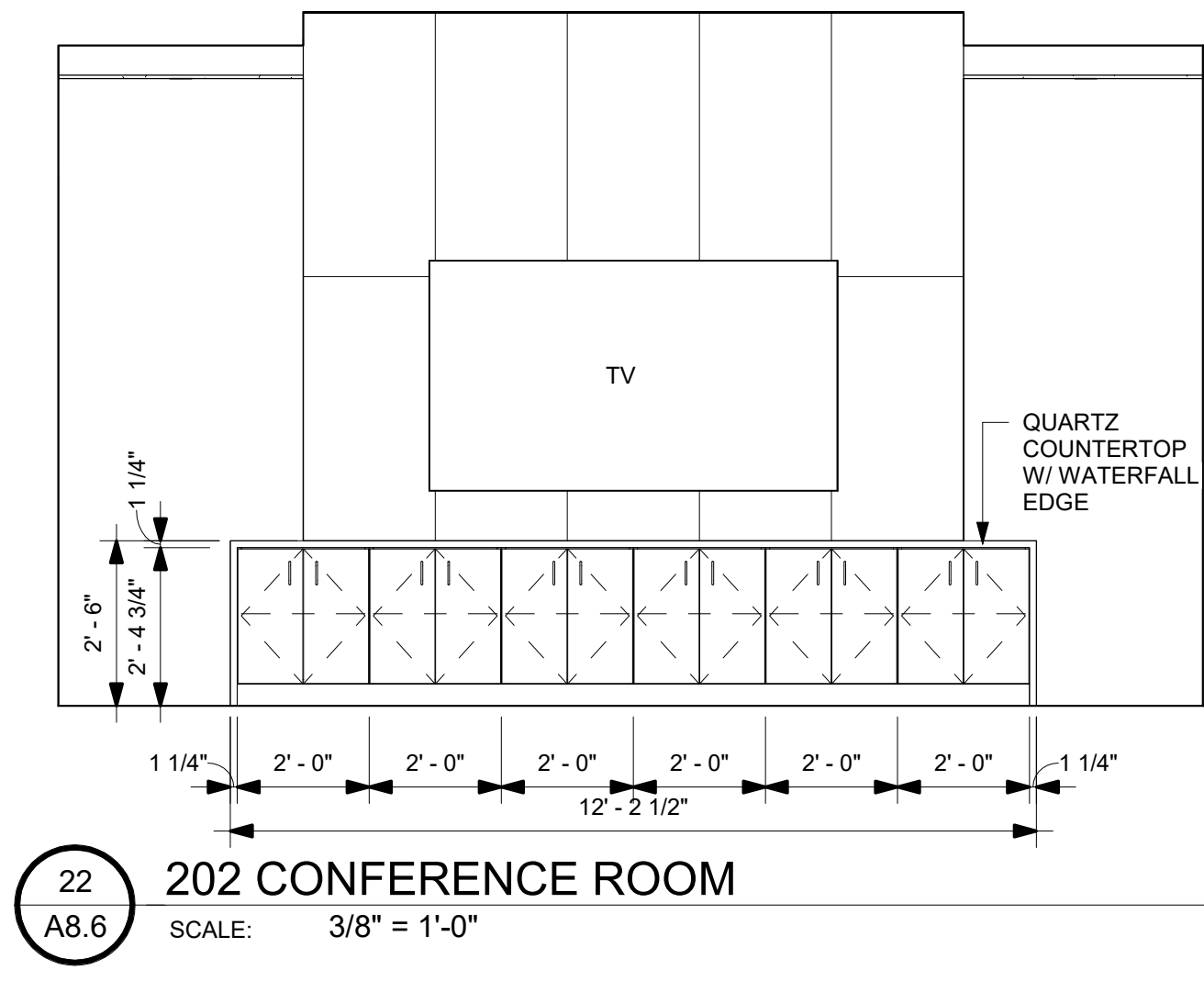
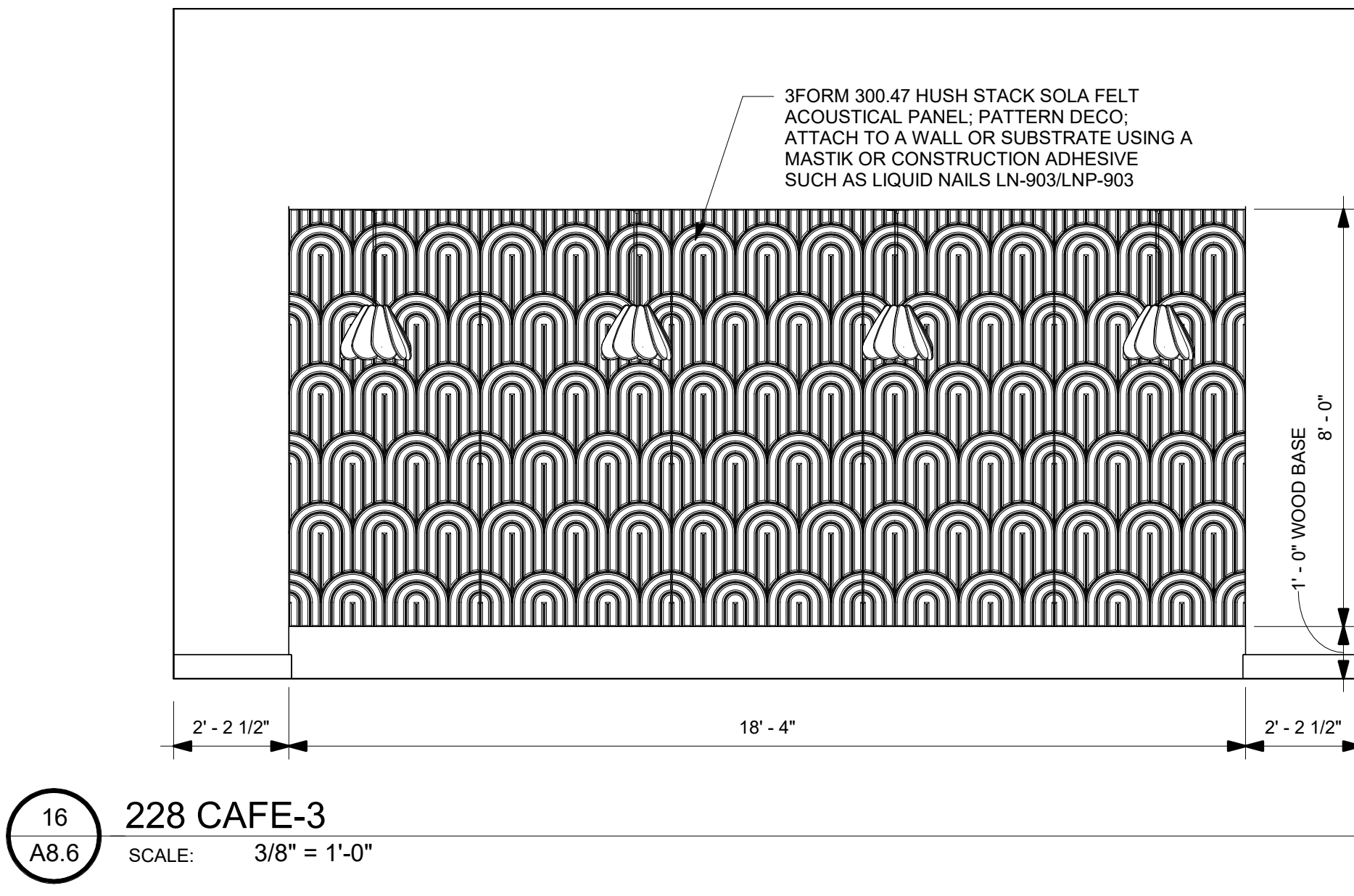
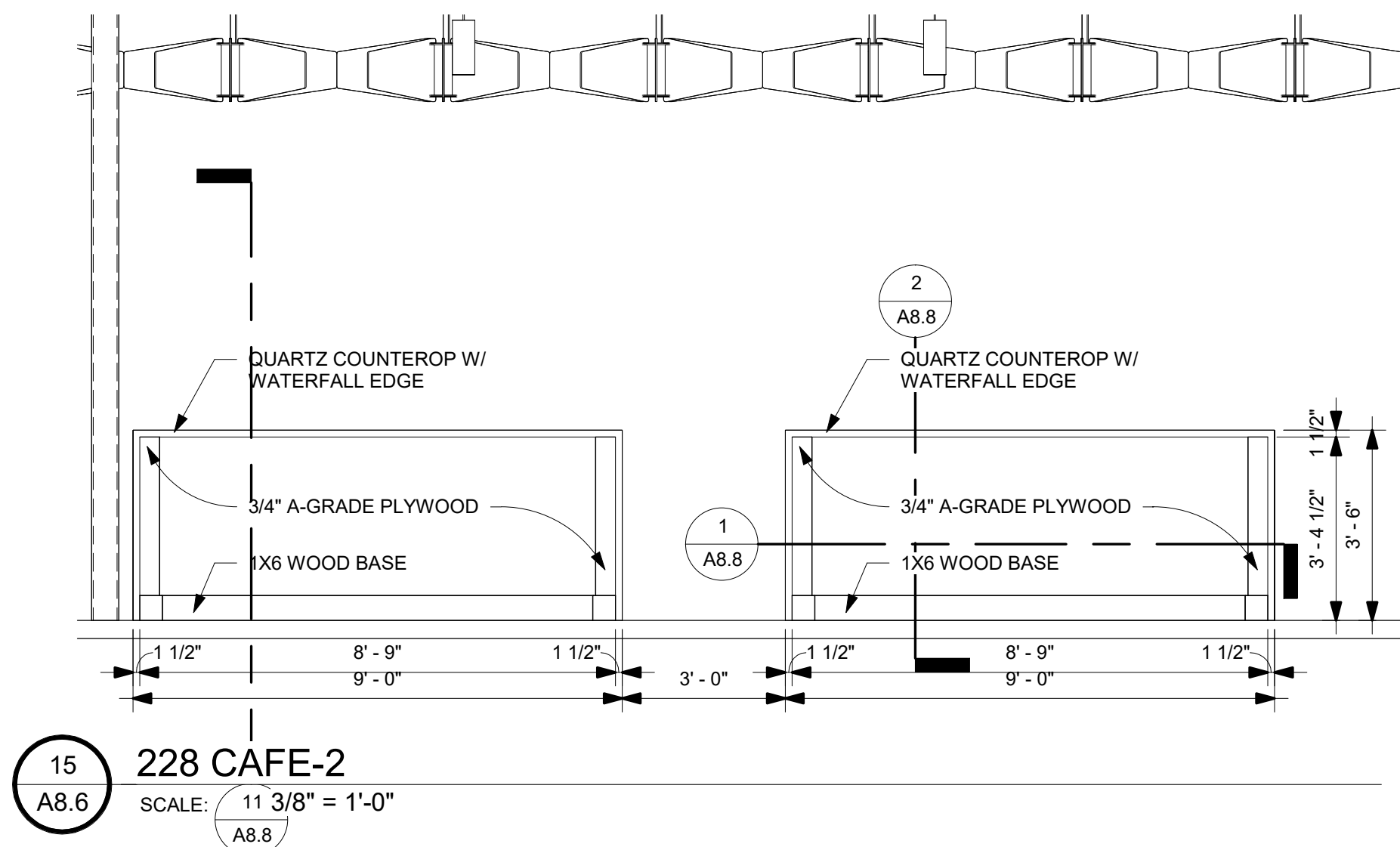
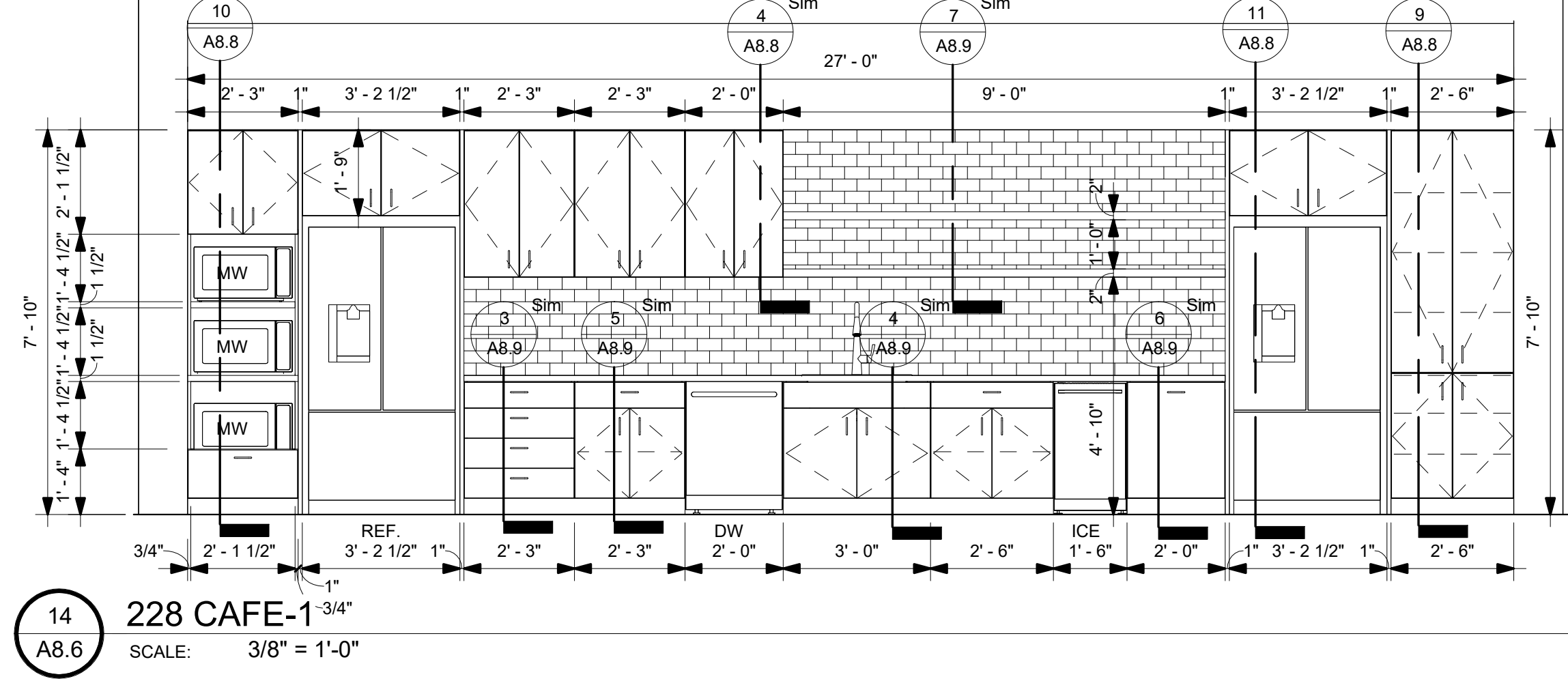
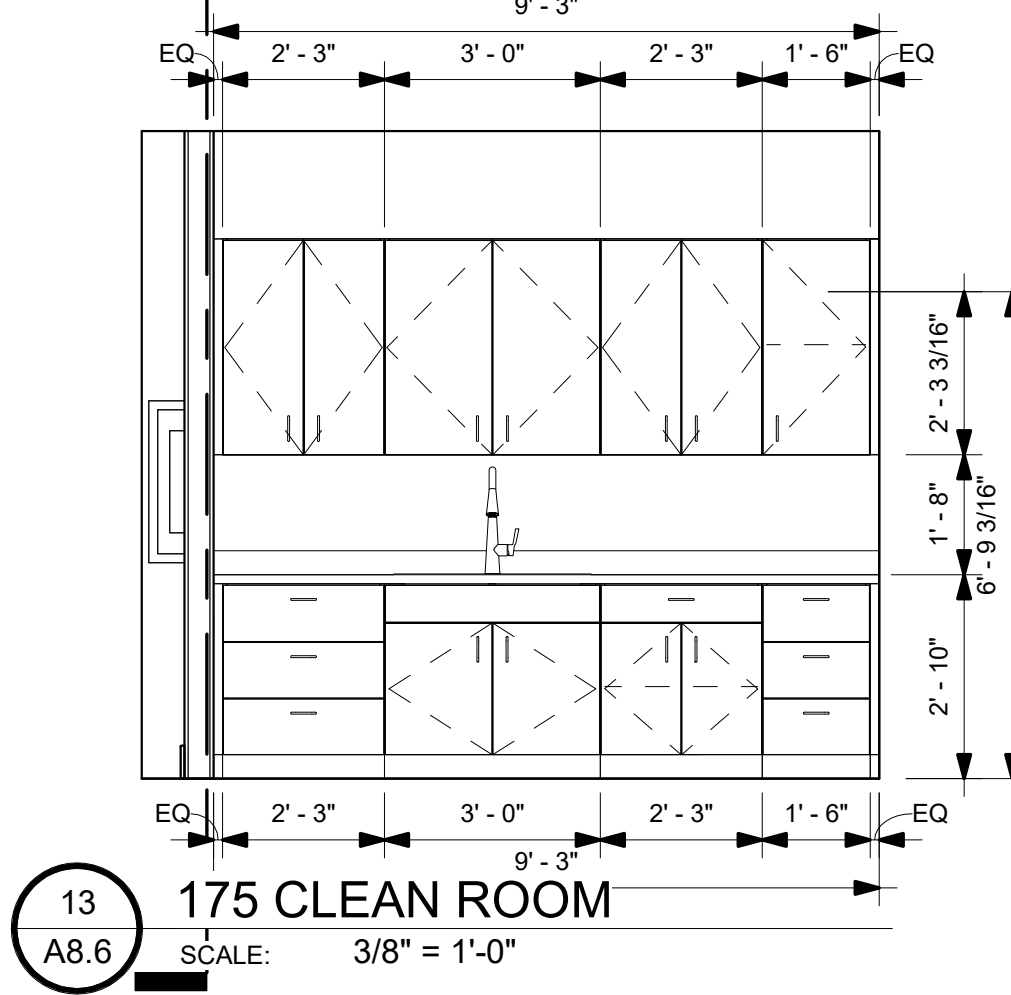
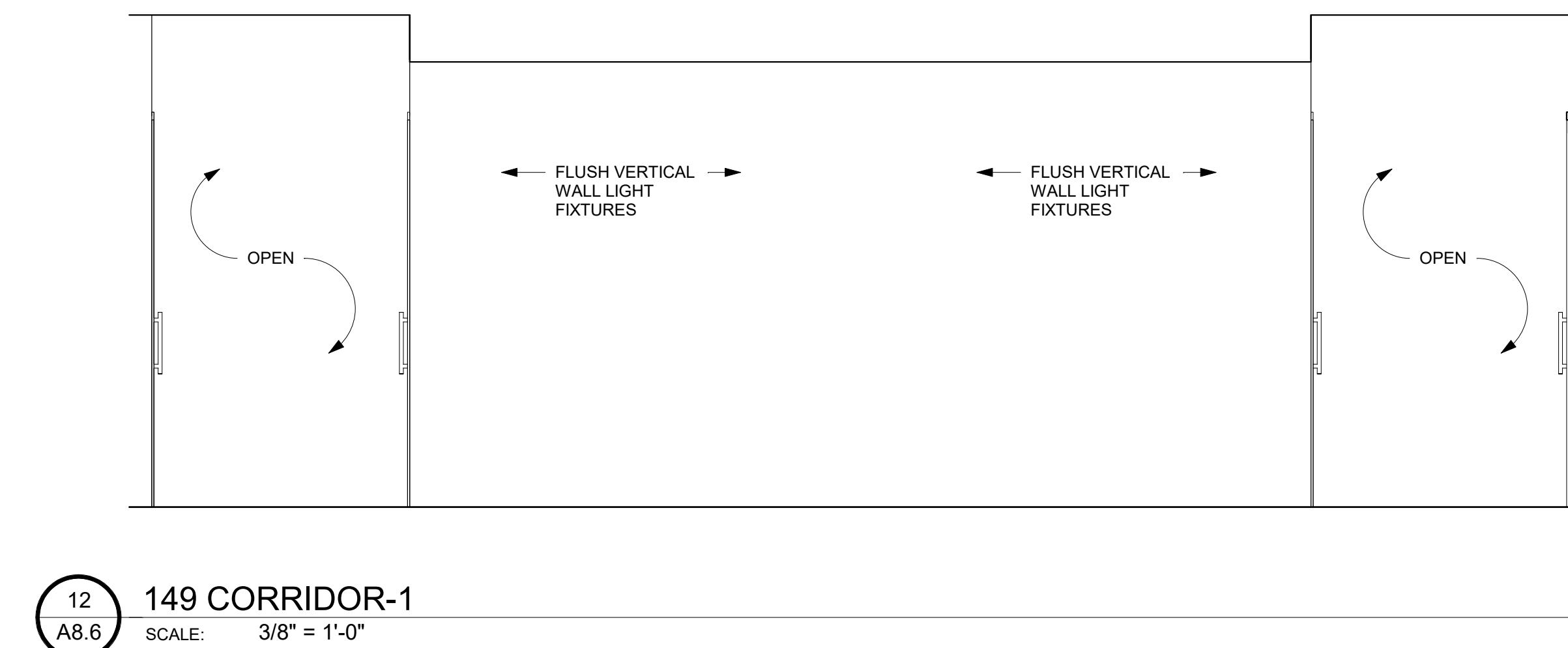
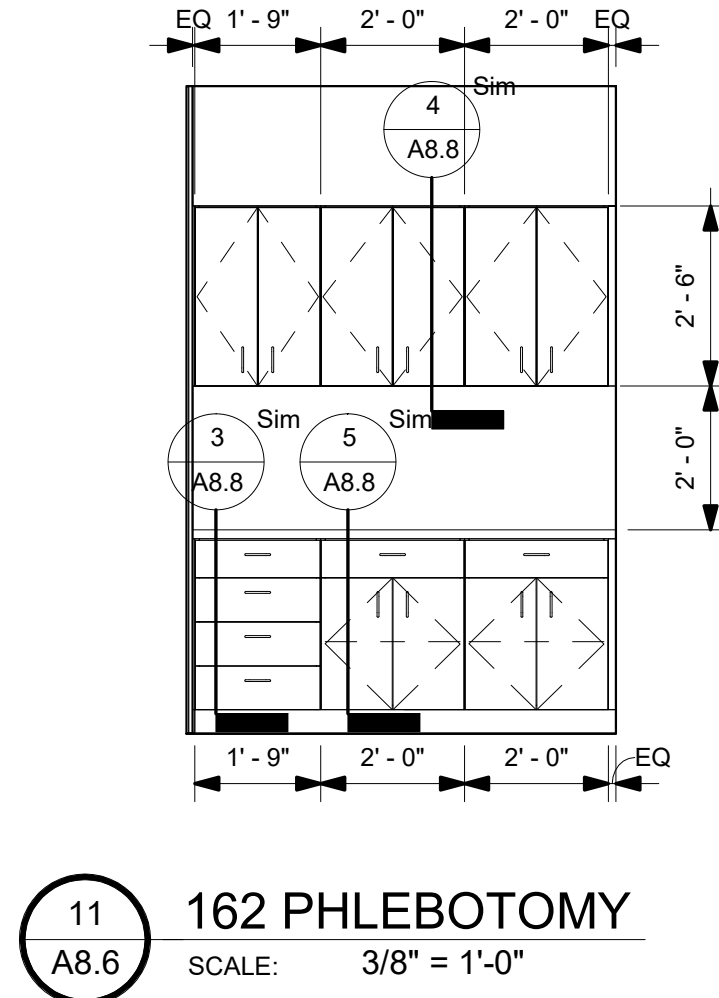
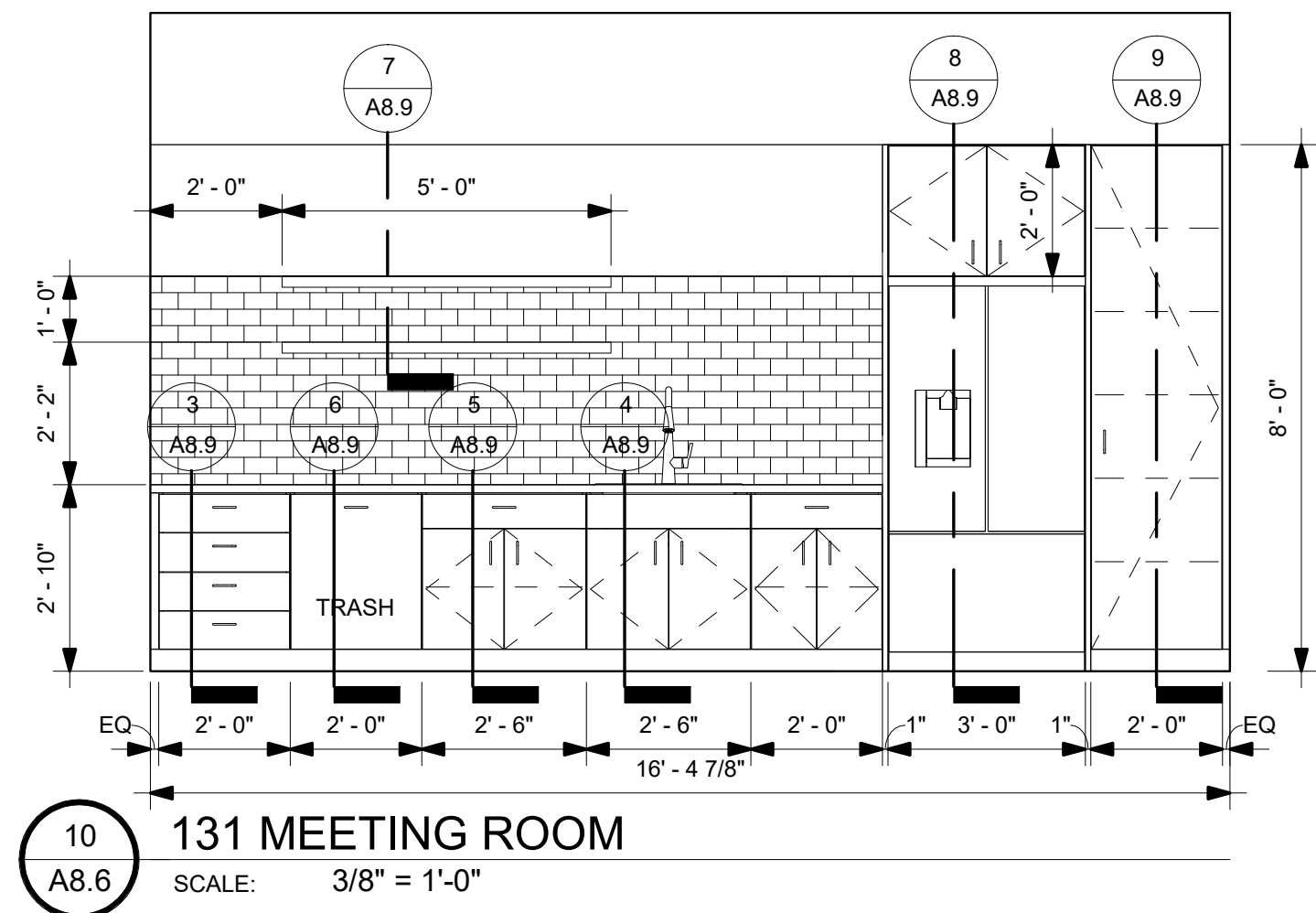
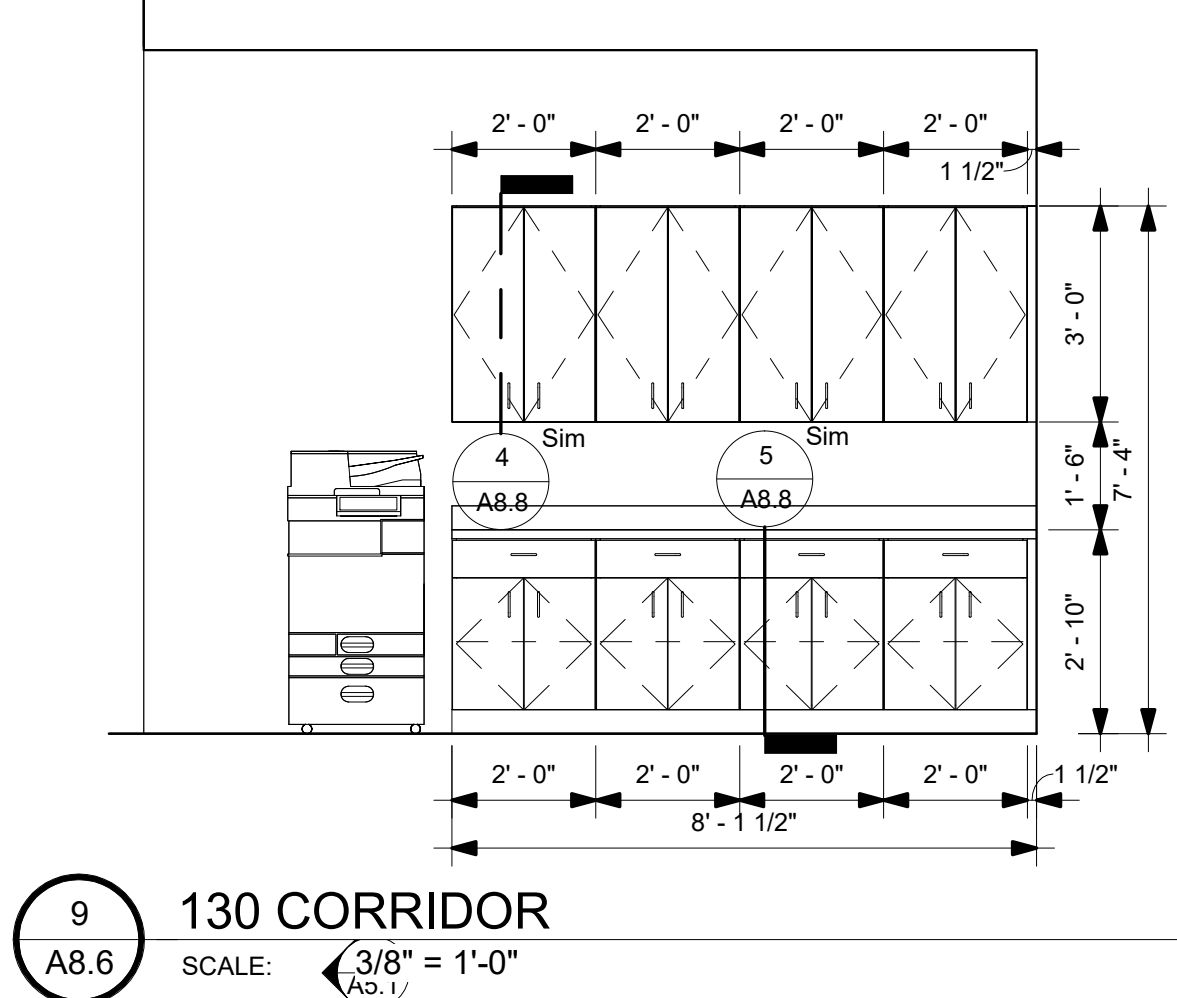
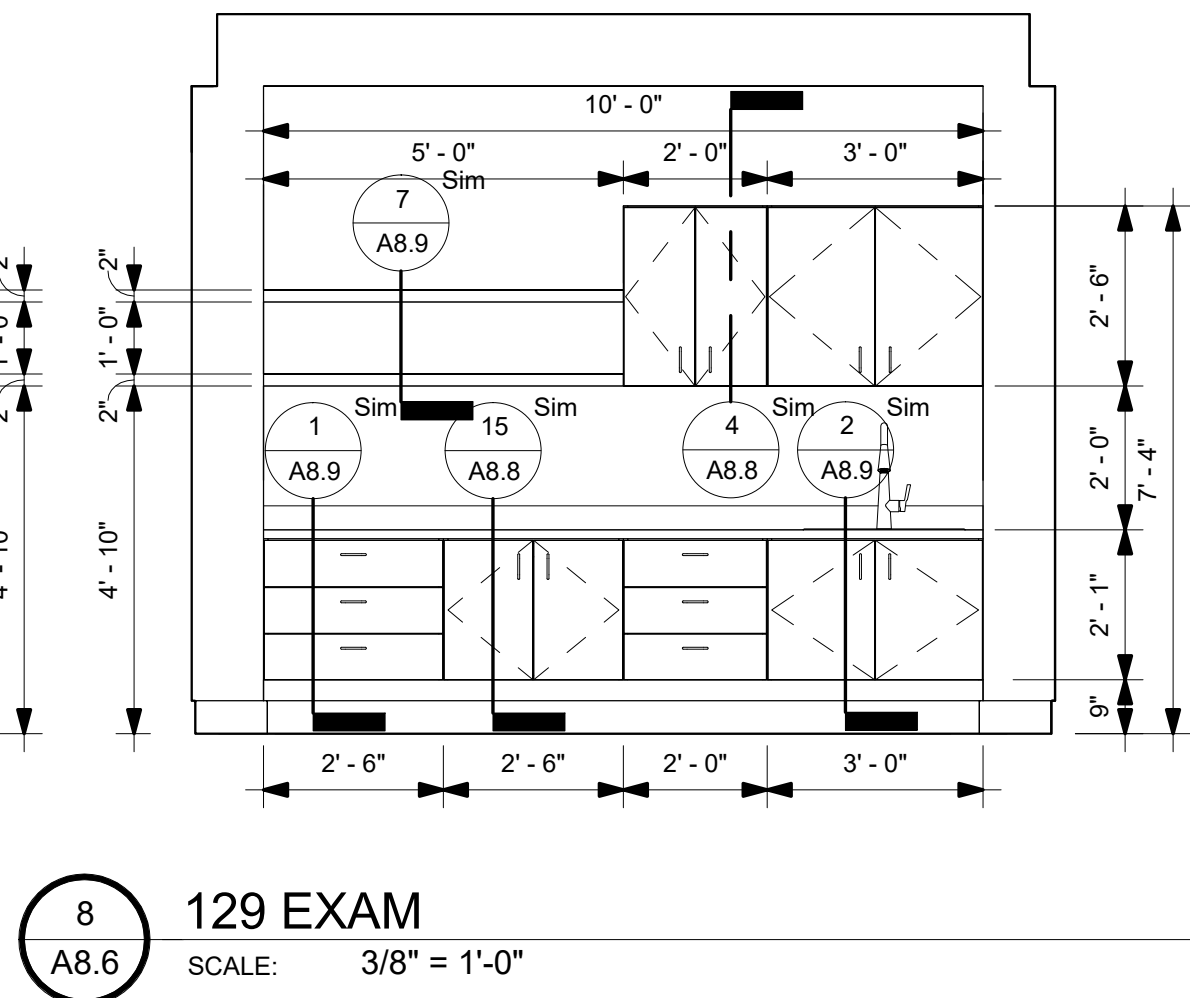
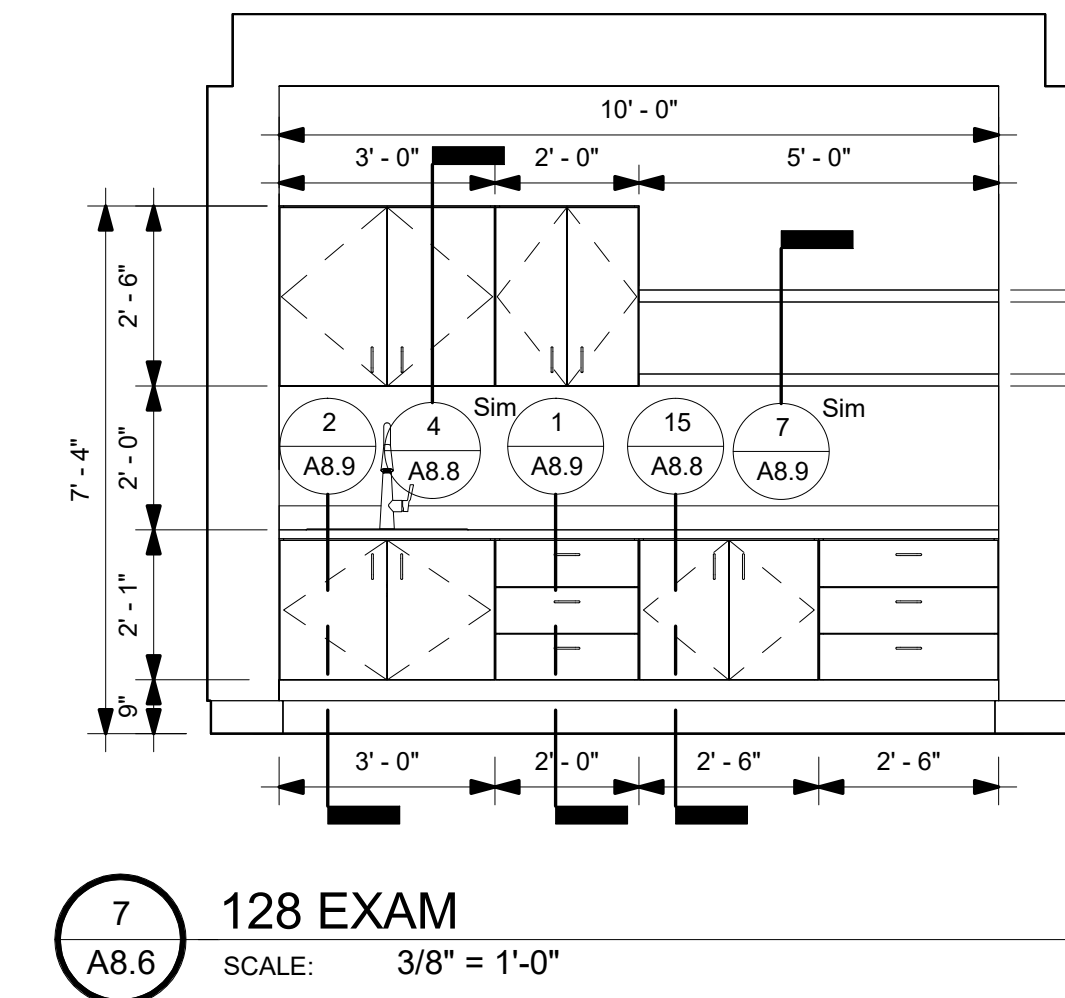
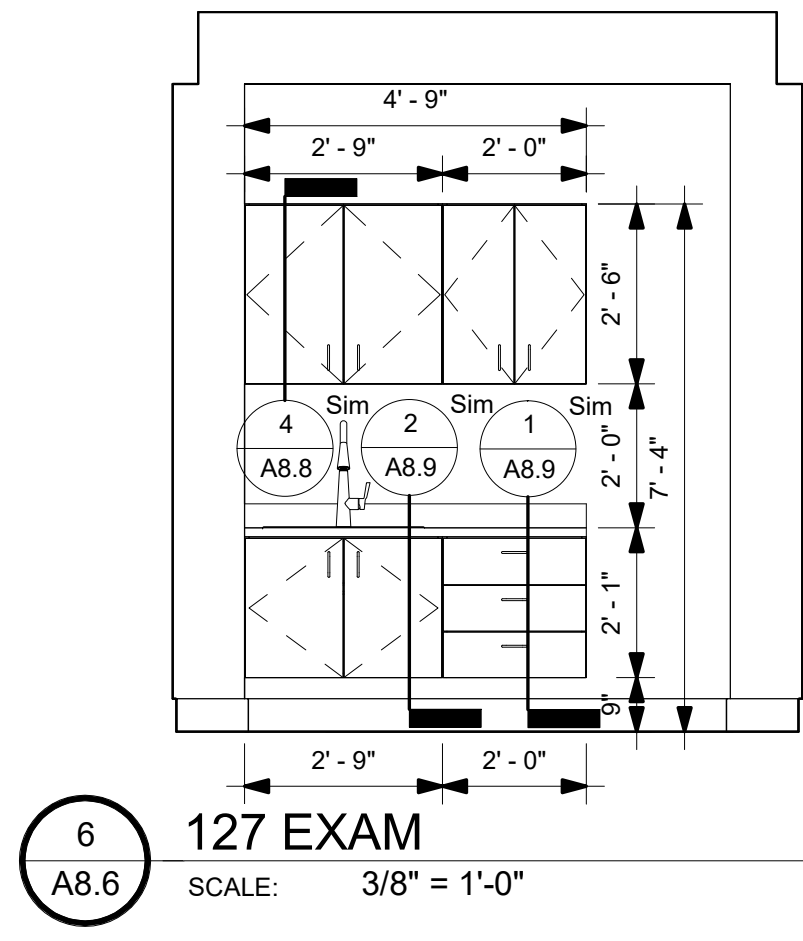
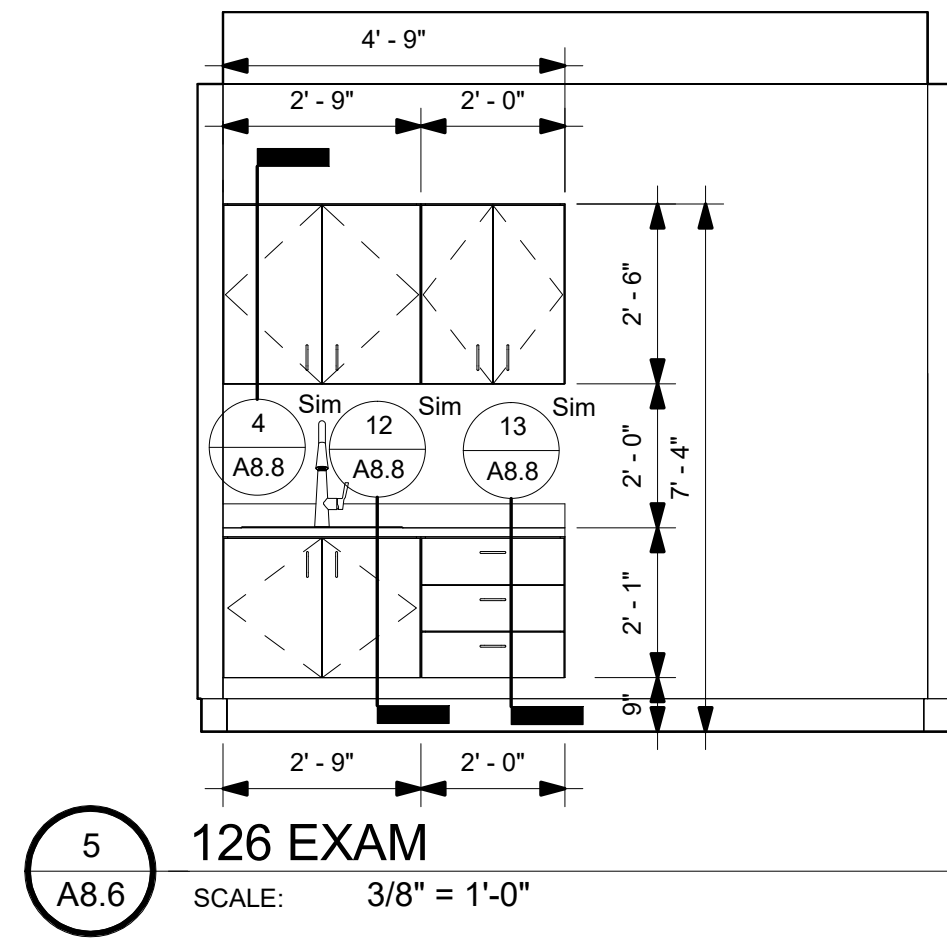
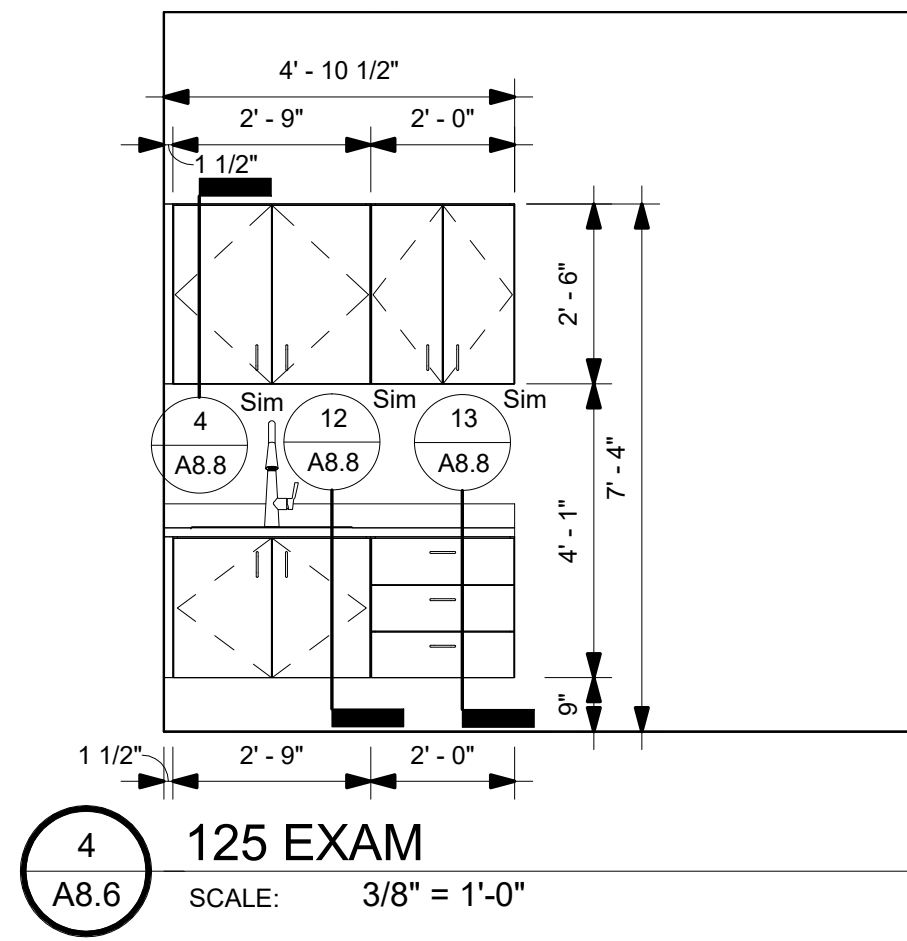
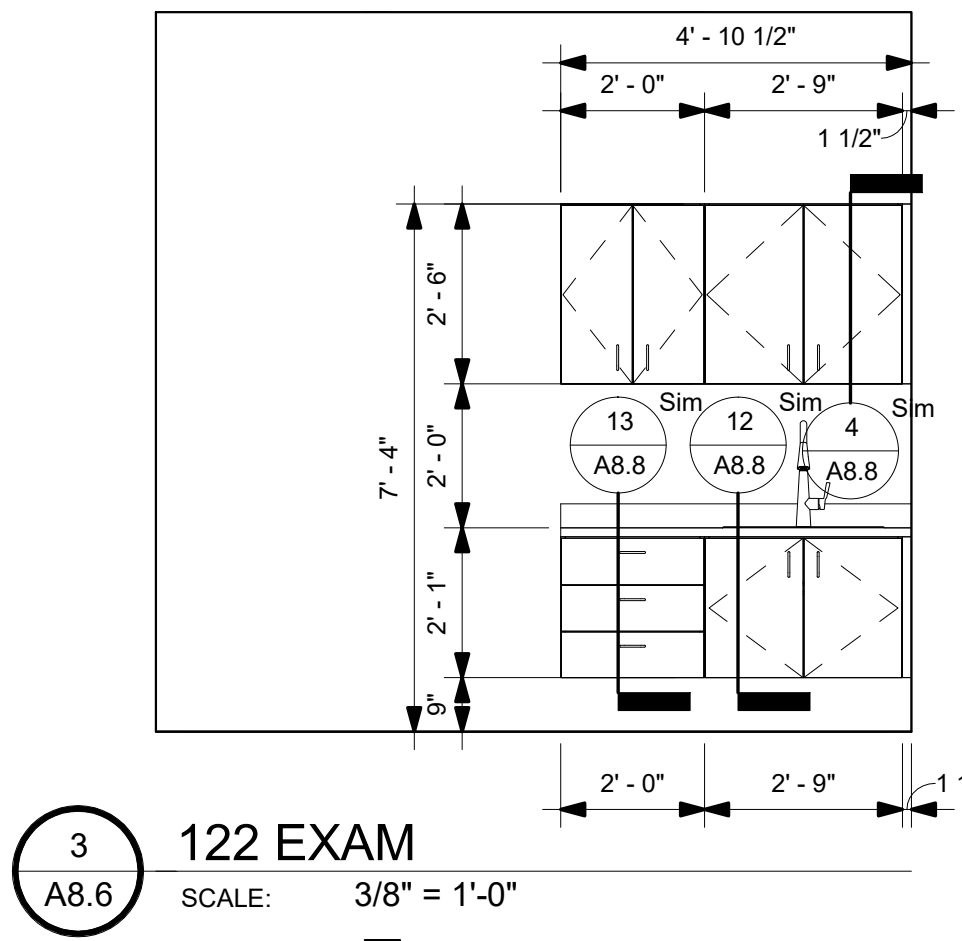
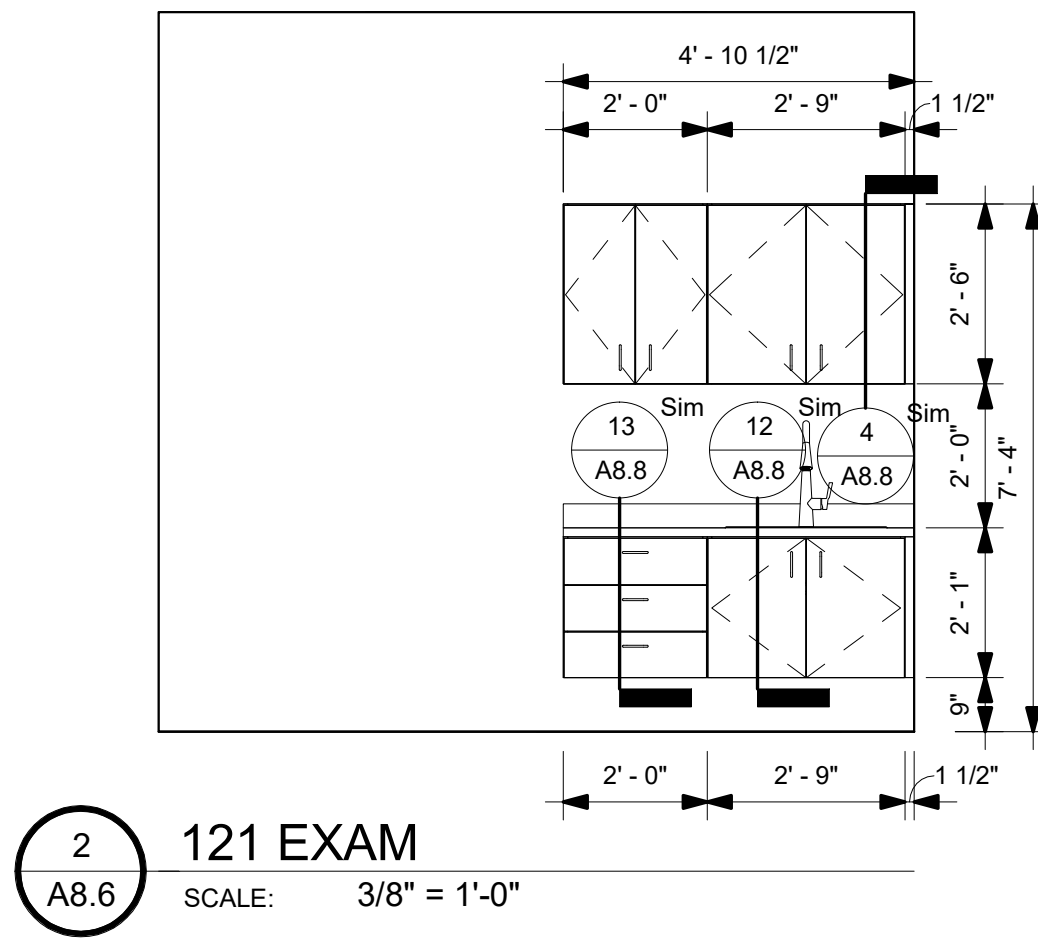
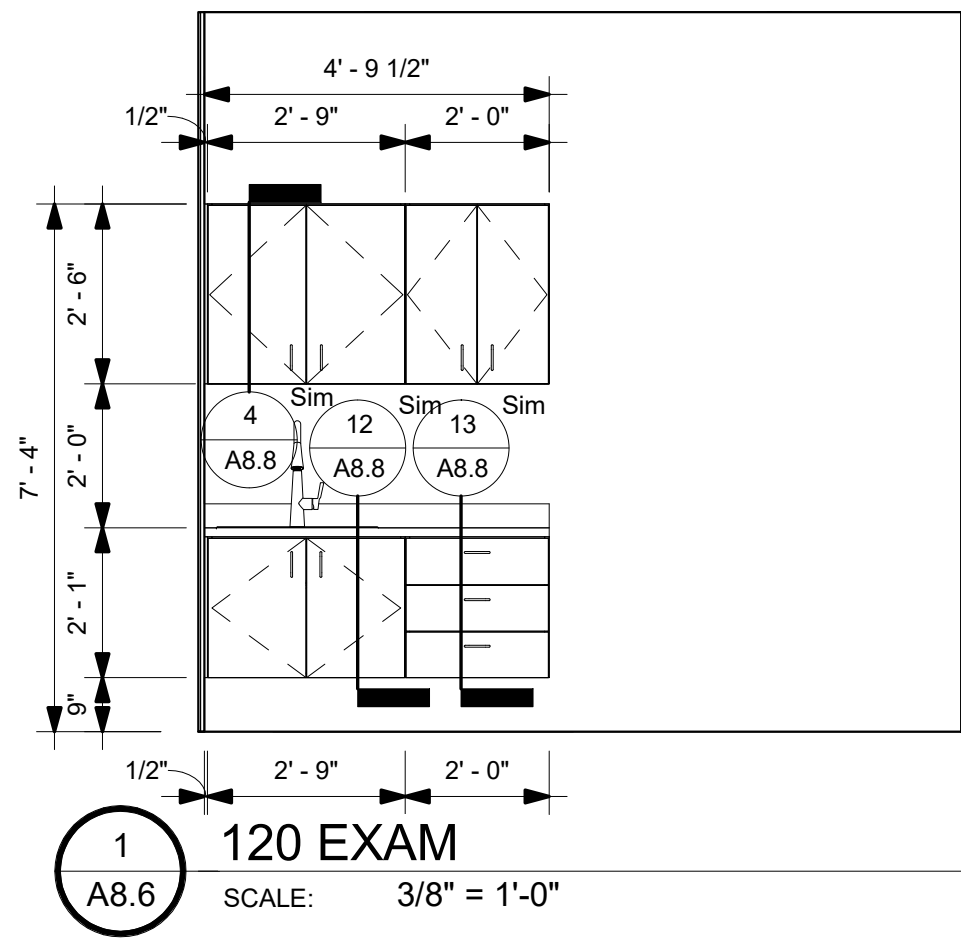
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**Sheet Title:**  
**INTERIOR  
ELEVATIONS**

**Project #:**   **Date:**  
2229                      4/18/2025

**A8.5**

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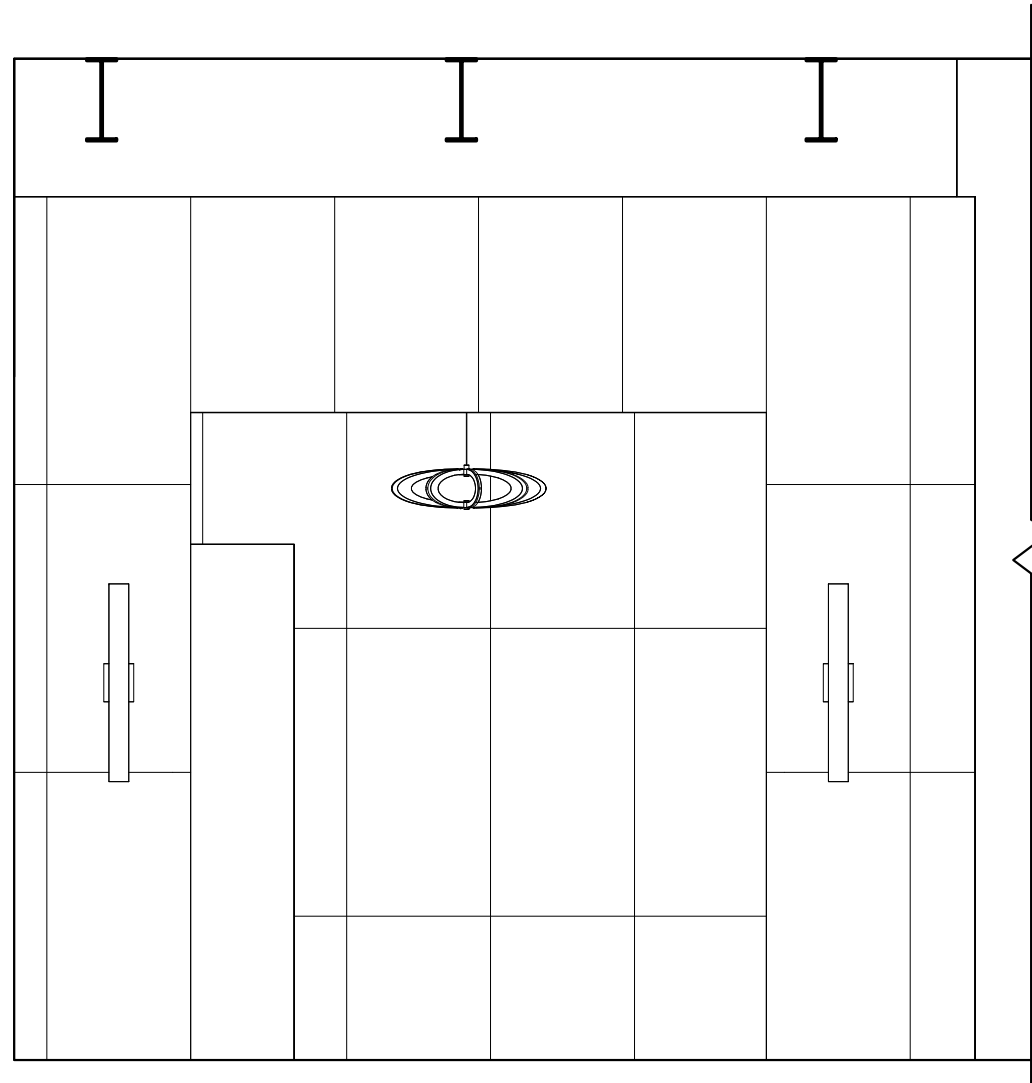
4951 FORSYTH ROAD, MACON, GA 31210

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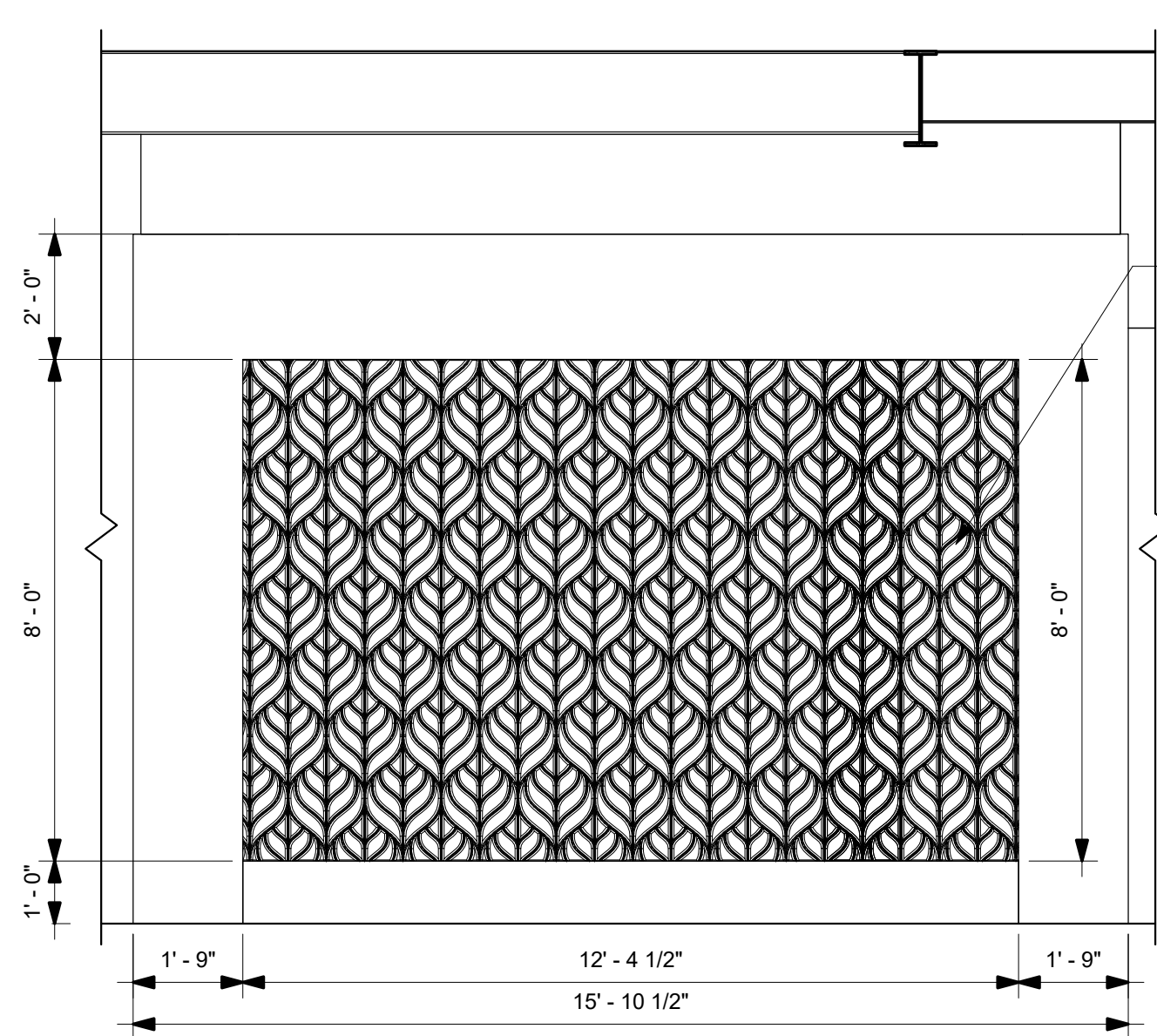
**Sheet Title:**  
**INTERIOR**  
**ELEVATIONS**

**Project #:** 2229 **Date:** 4/18/2025

**A8.6**

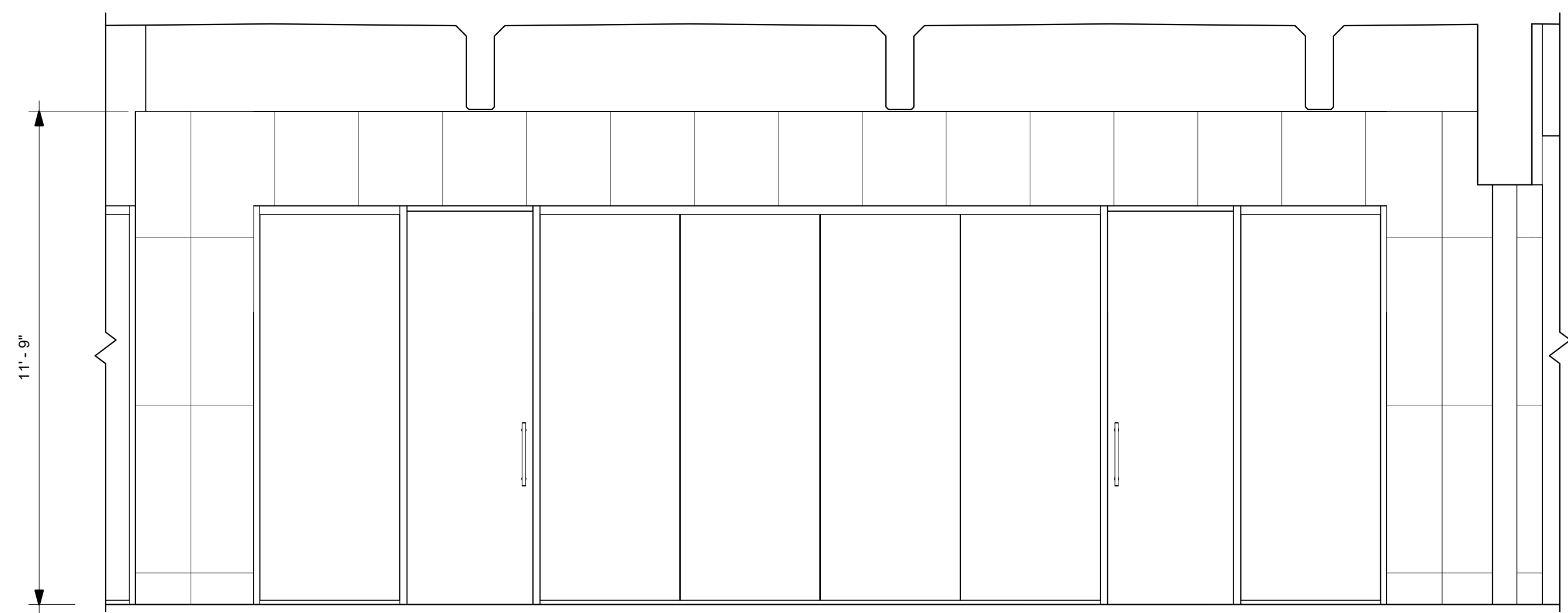


1 171 LOBBY  
A8.7 SCALE: 3/8" = 1'-0"

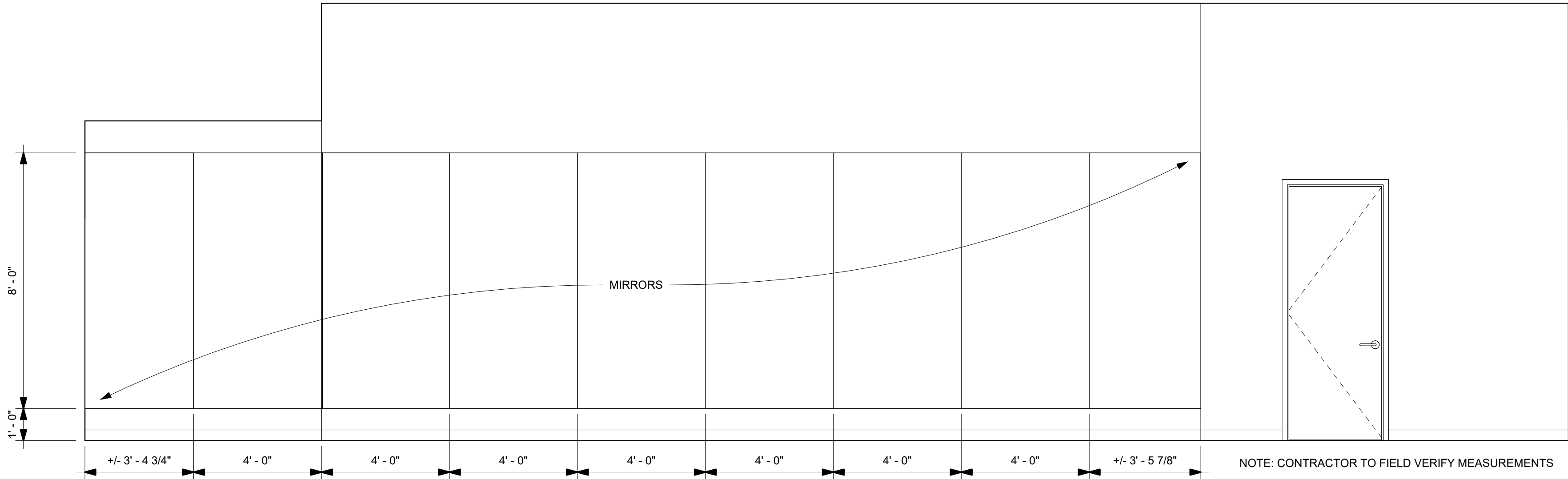


2 171 LOBBY-2  
A8.7 SCALE: 3/8" = 1'-0"

3FORM 300.47 HUSH  
STACK SOLA FELT  
ACOUSTICAL PANEL;  
PATTERN LEAFY;  
ATTACH TO A WALL OR  
SUBSTRATE USING A  
MASTIK OR  
CONSTRUCTION  
ADHESIVE  
SUCH AS LIQUID NAILS  
LN-903/LNP-903

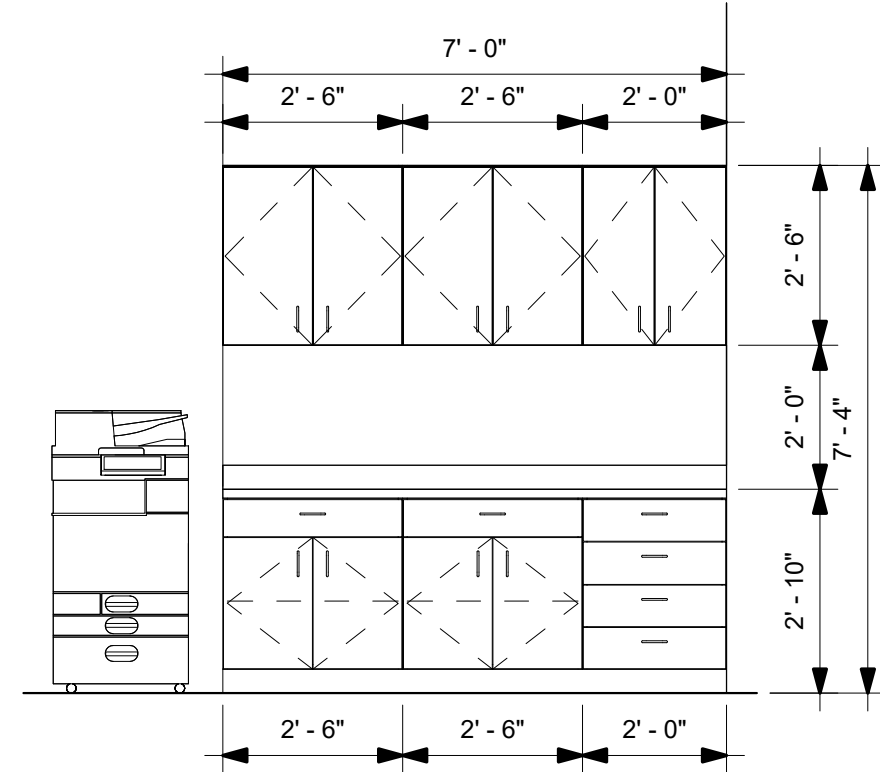


3 201 OPEN WORK AREA  
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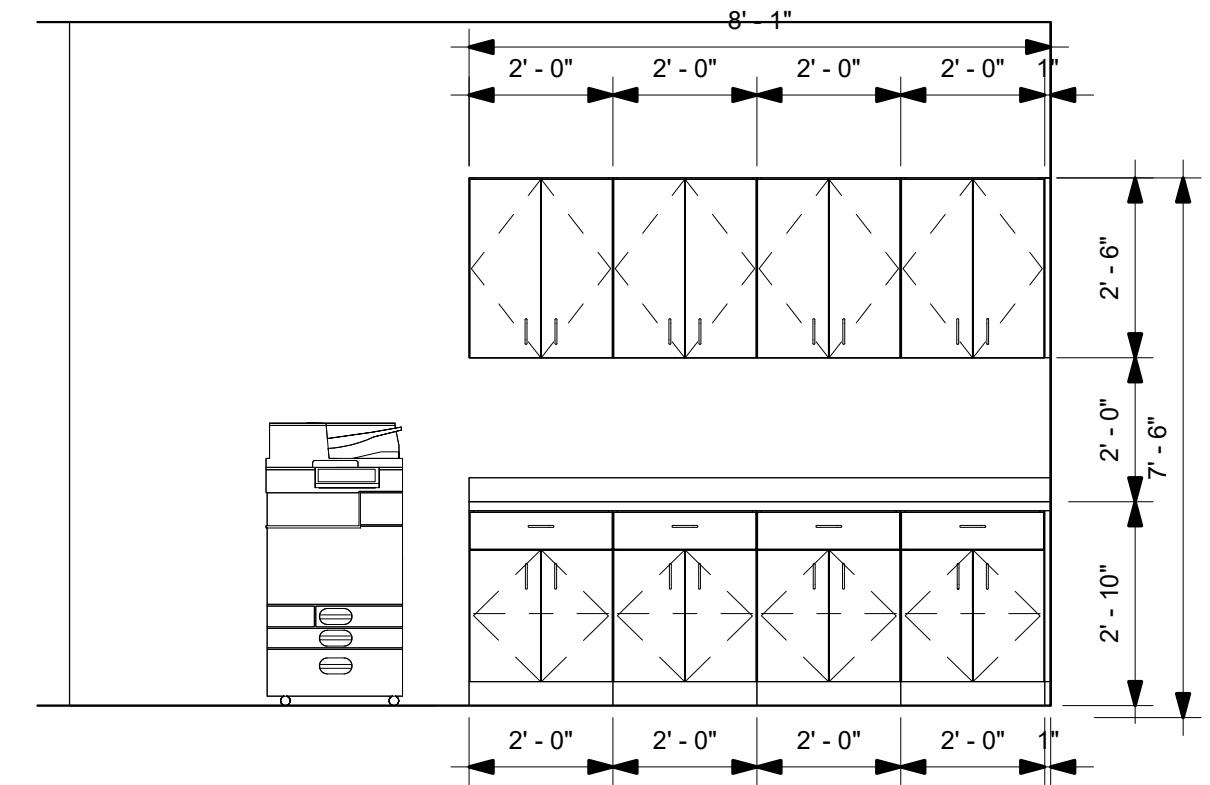


4 202 FITNESS ROOM  
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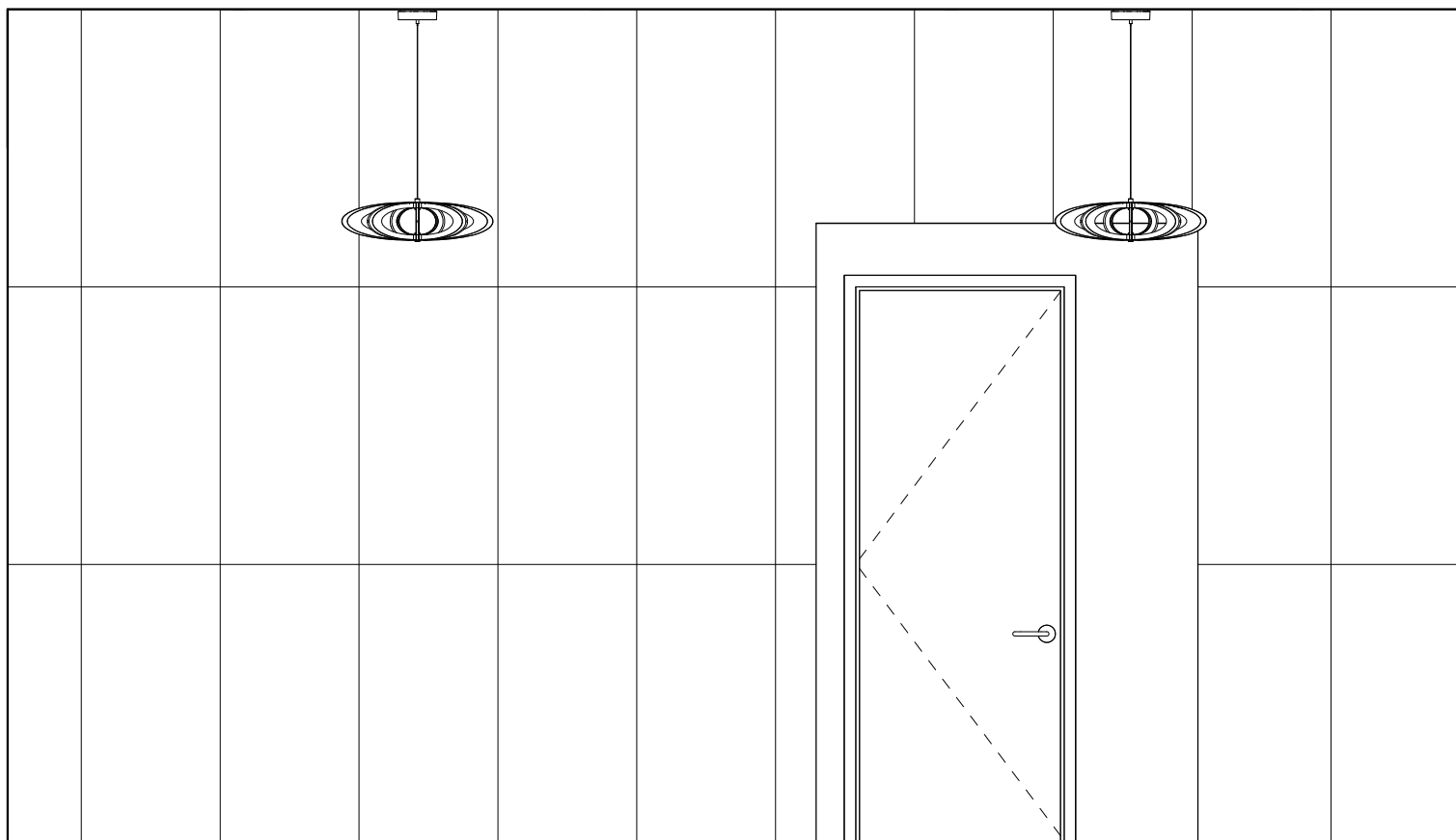
NOTE: CONTRACTOR TO FIELD VERIFY MEASUREMENTS



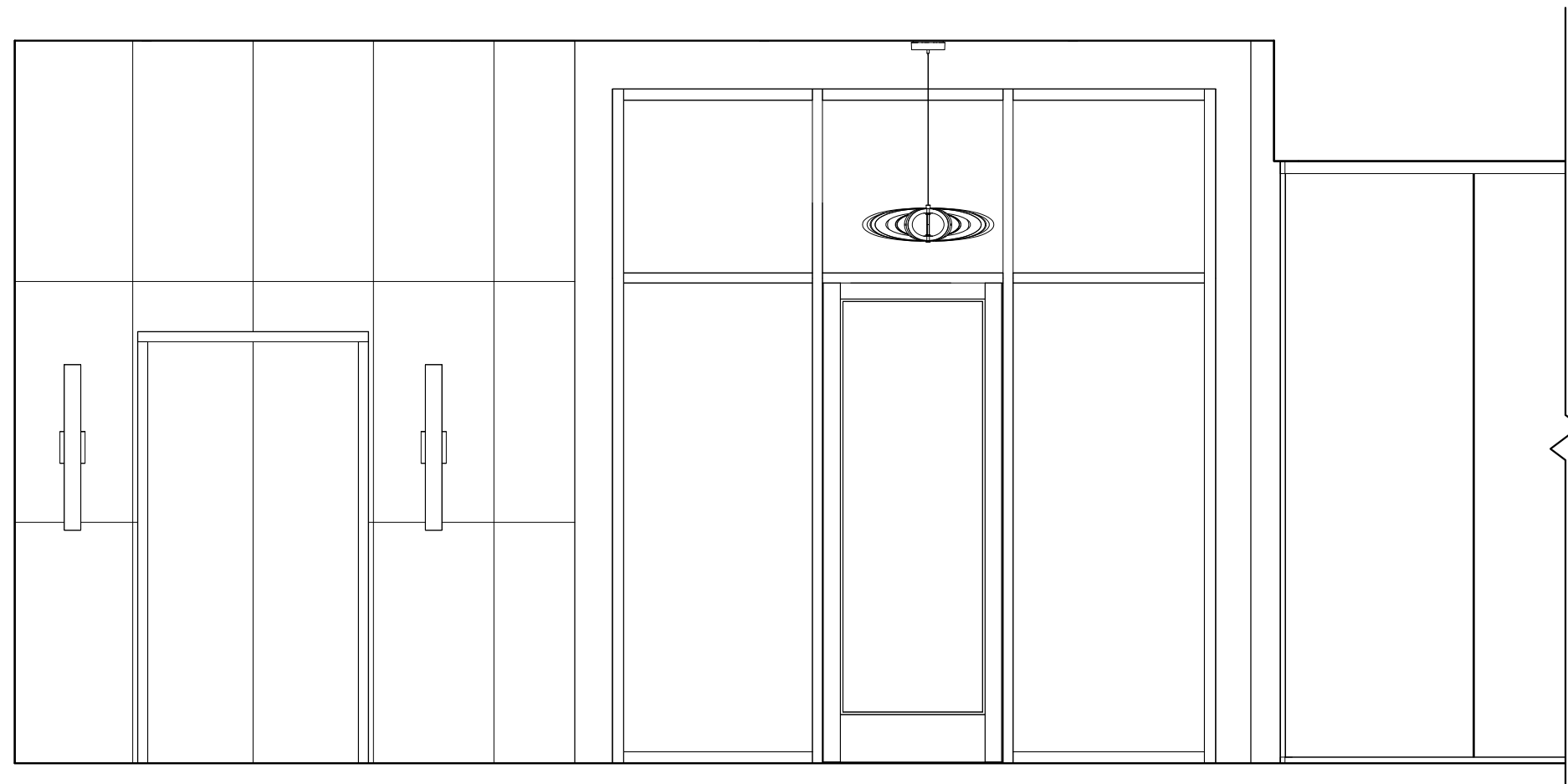
5 306 WORKSTATIONS  
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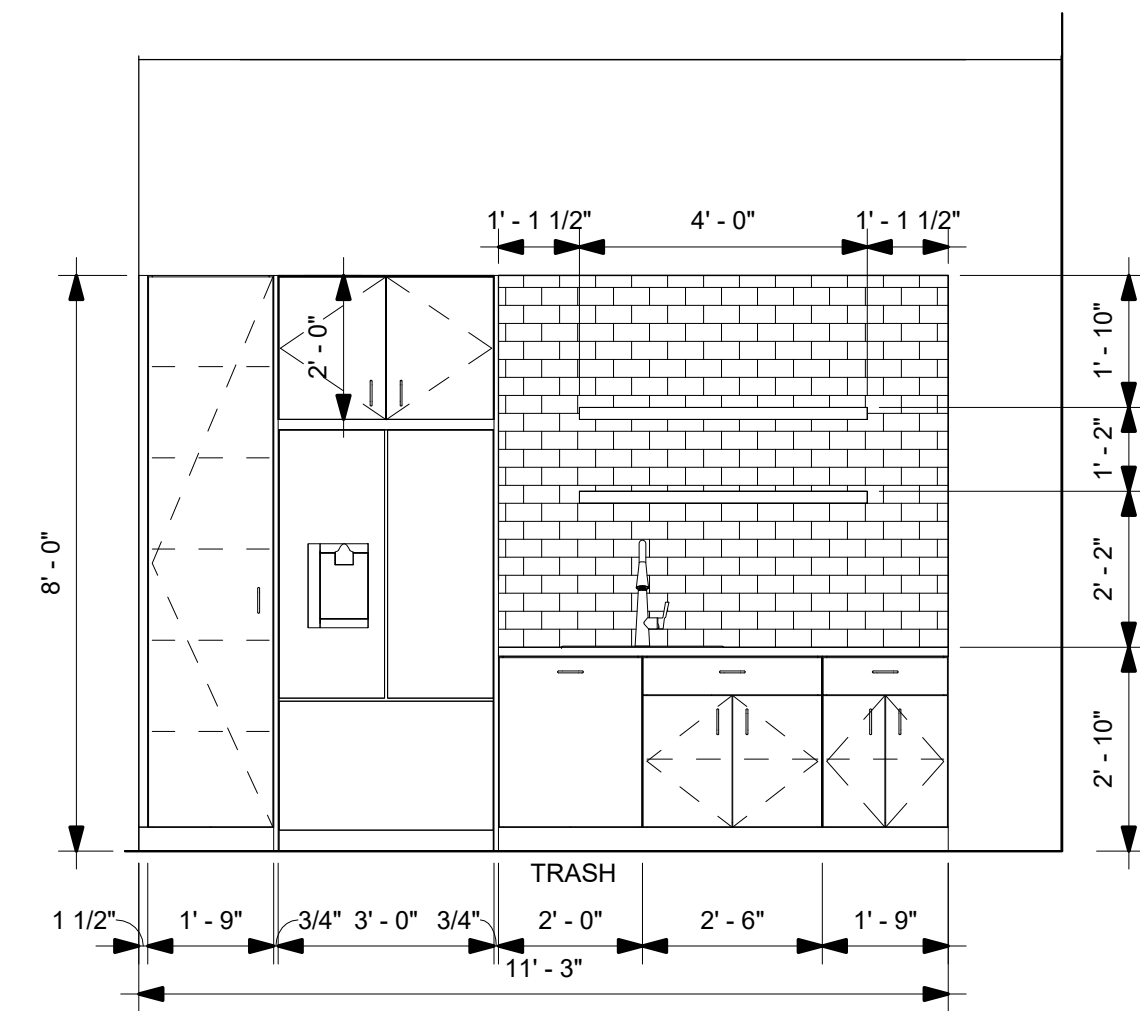
6 201 OPEN WORK AREA  
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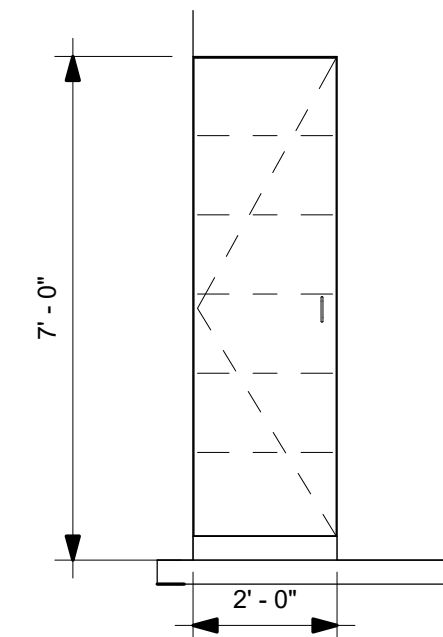
7 301 LOBBY  
A8.7 SCALE: 3/8" = 1'-0"



8 301 LOBBY  
A8.7 SCALE: 3/8" = 1'-0"



9 311 CONFERENCE  
A8.7 SCALE: 3/8" = 1'-0"



10 309 OPERATIONS OFFICE  
A8.7 SCALE: 3/8" = 1'-0"



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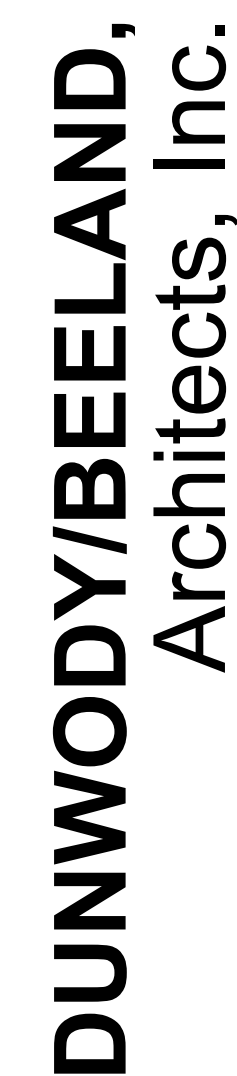
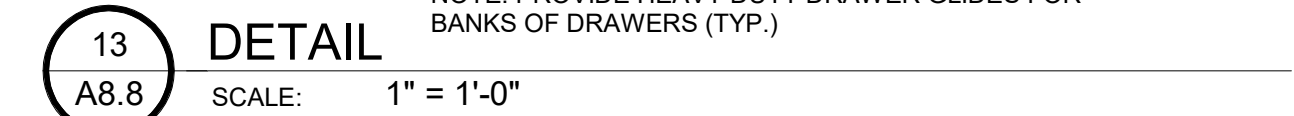
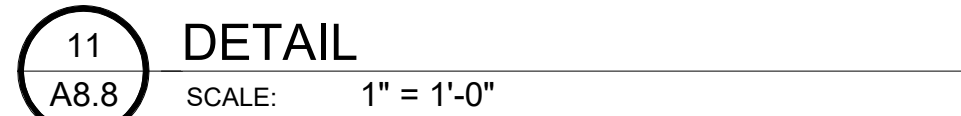
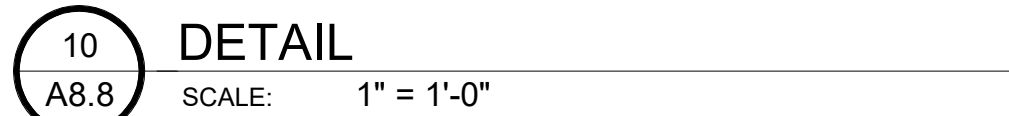
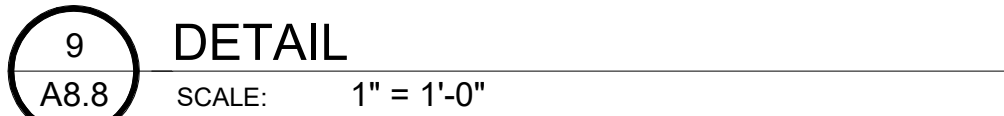
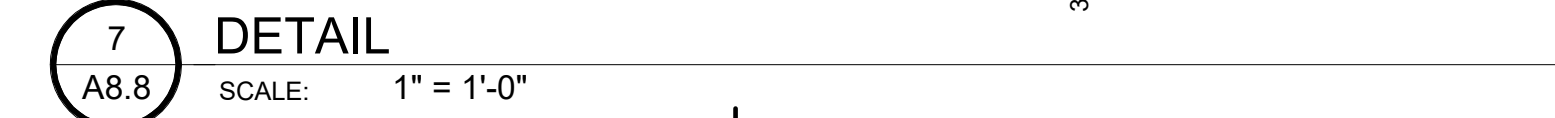
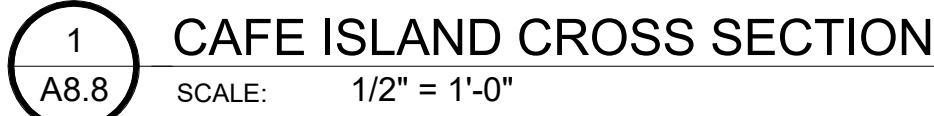
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Sheet Title:  
**INTERIOR  
ELEVATIONS**

Project #: 2229 Date: 4/18/2025

**A8.7**





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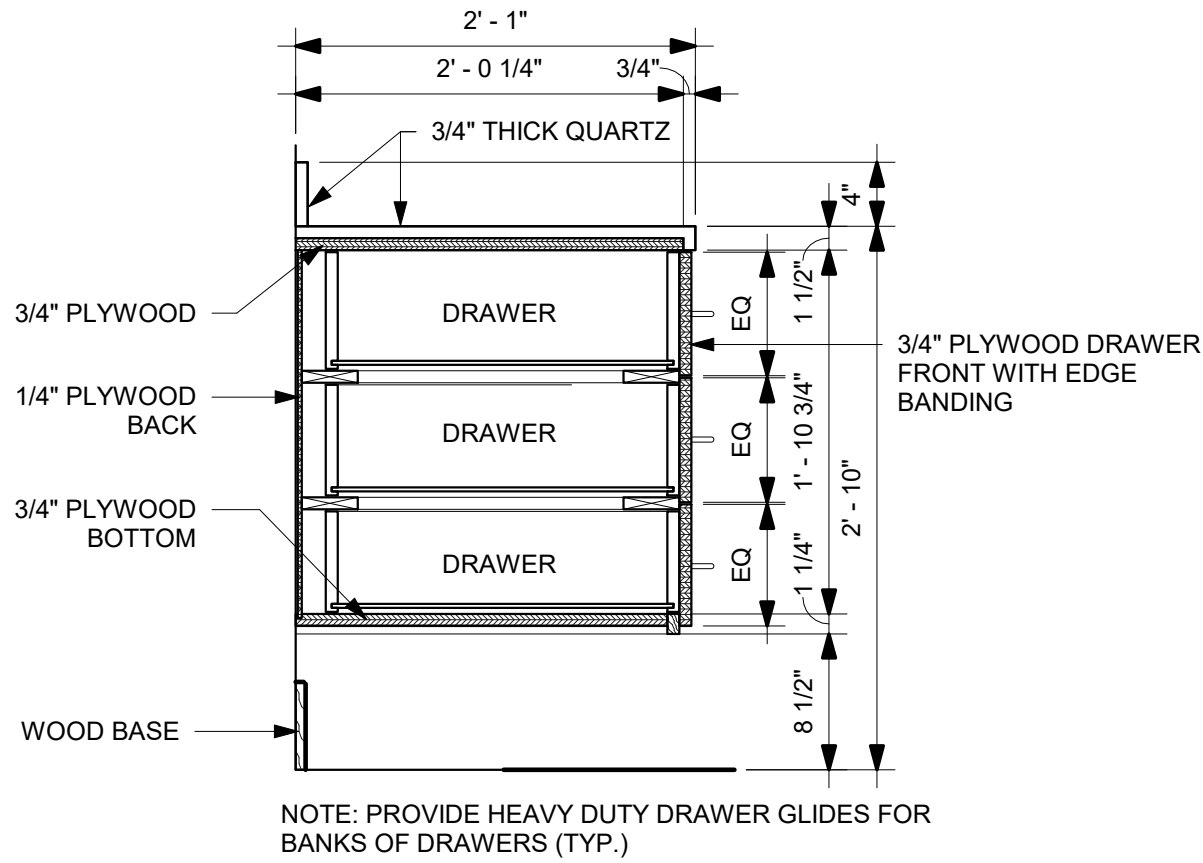
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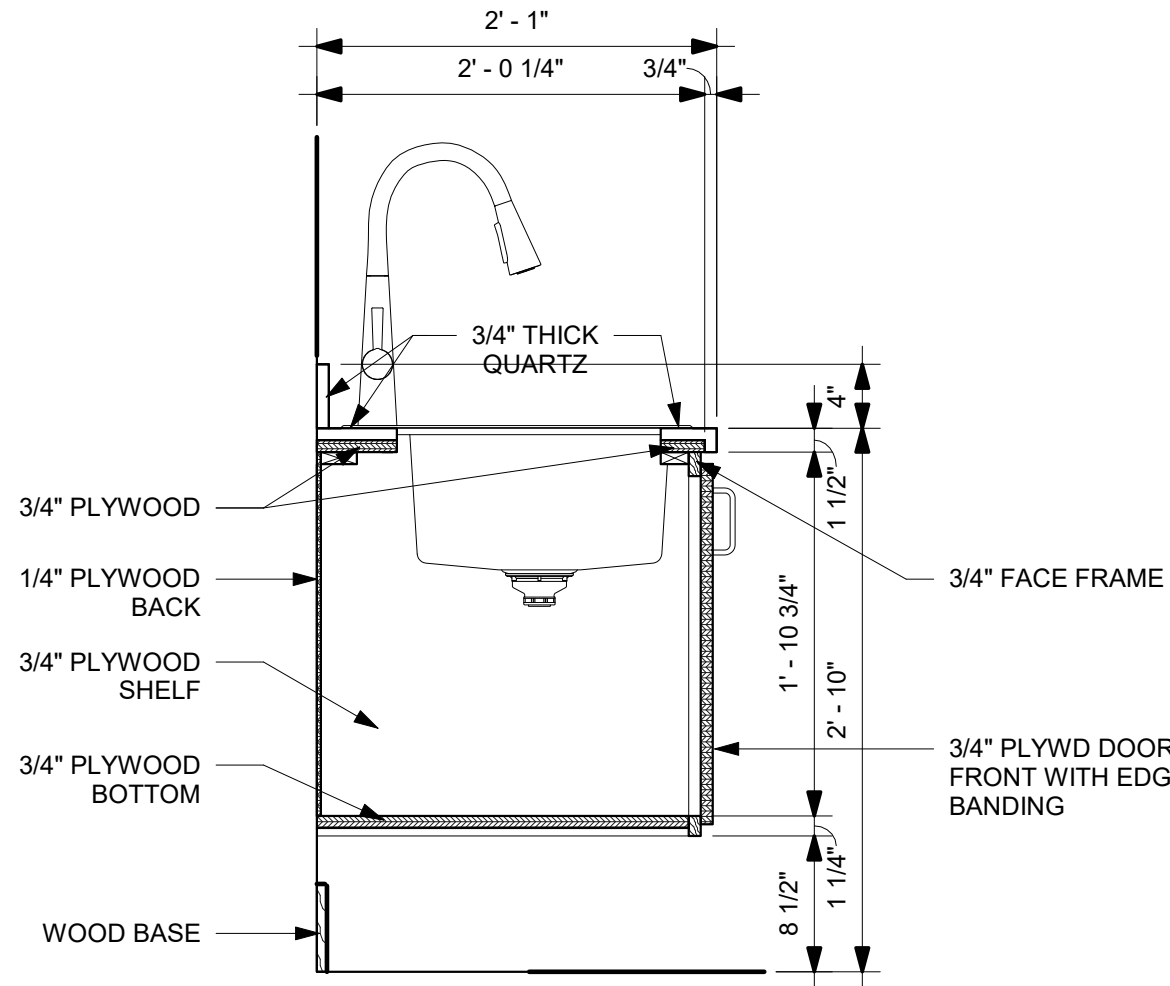
Sheet Title:  
CASEWORK  
DETAILS

## A8.8

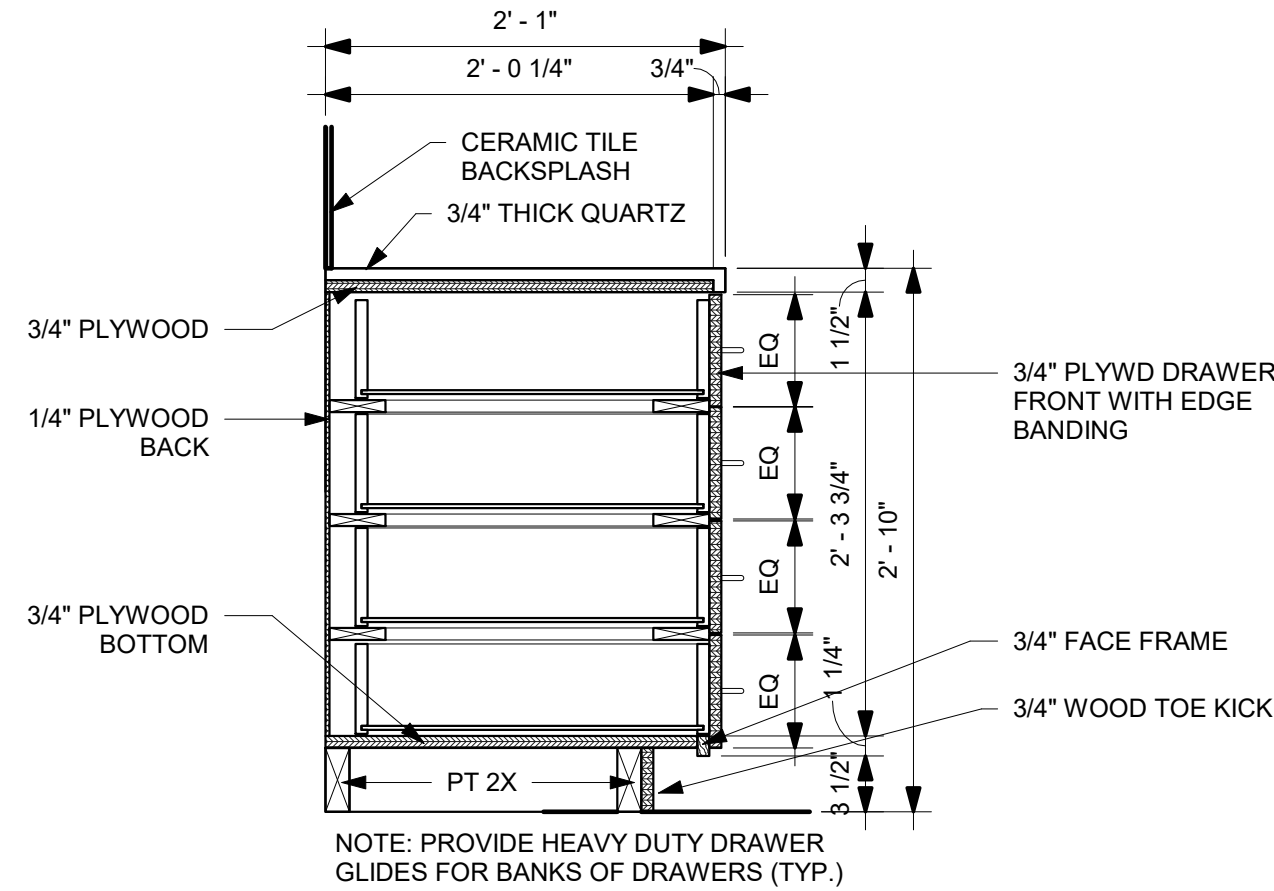
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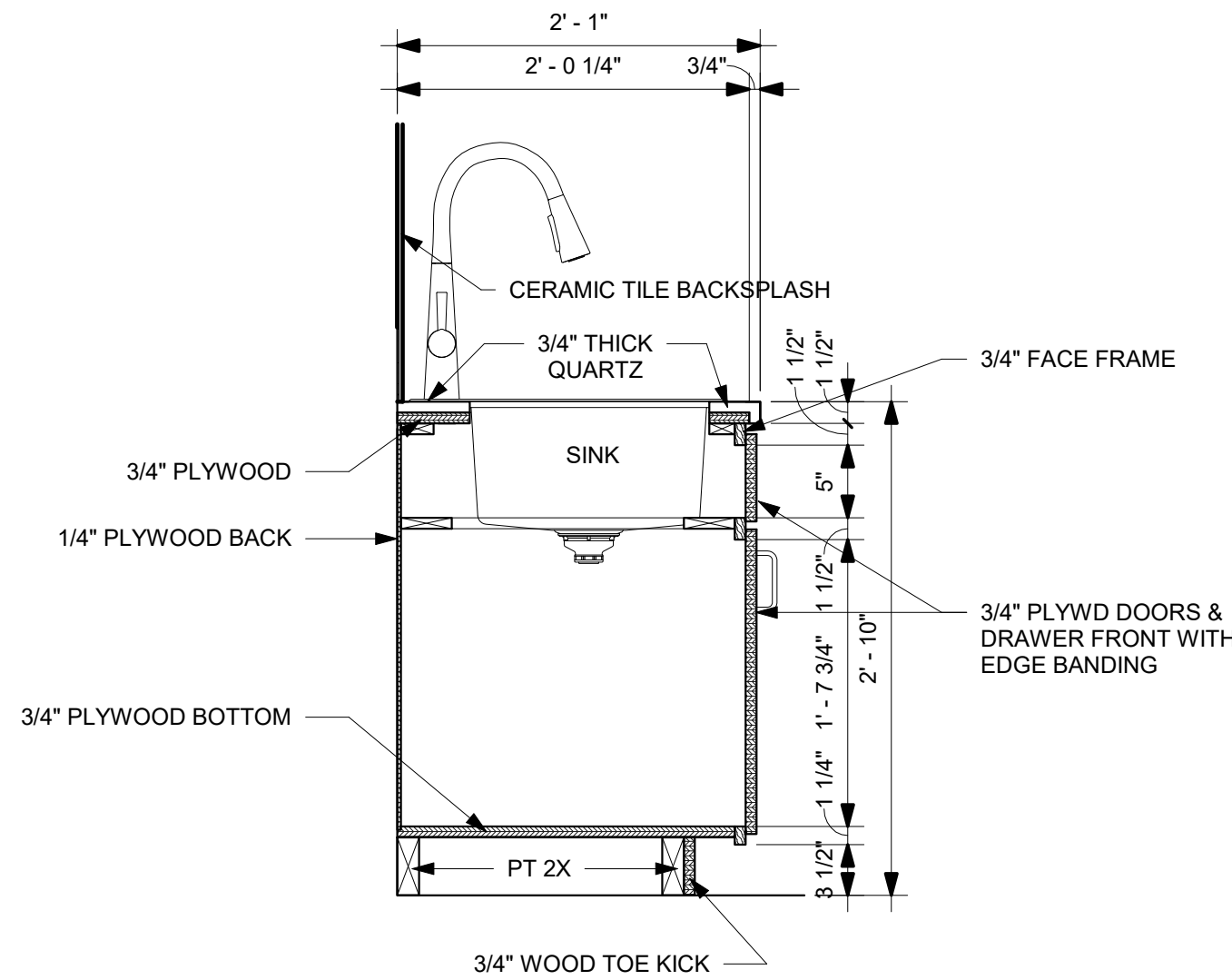
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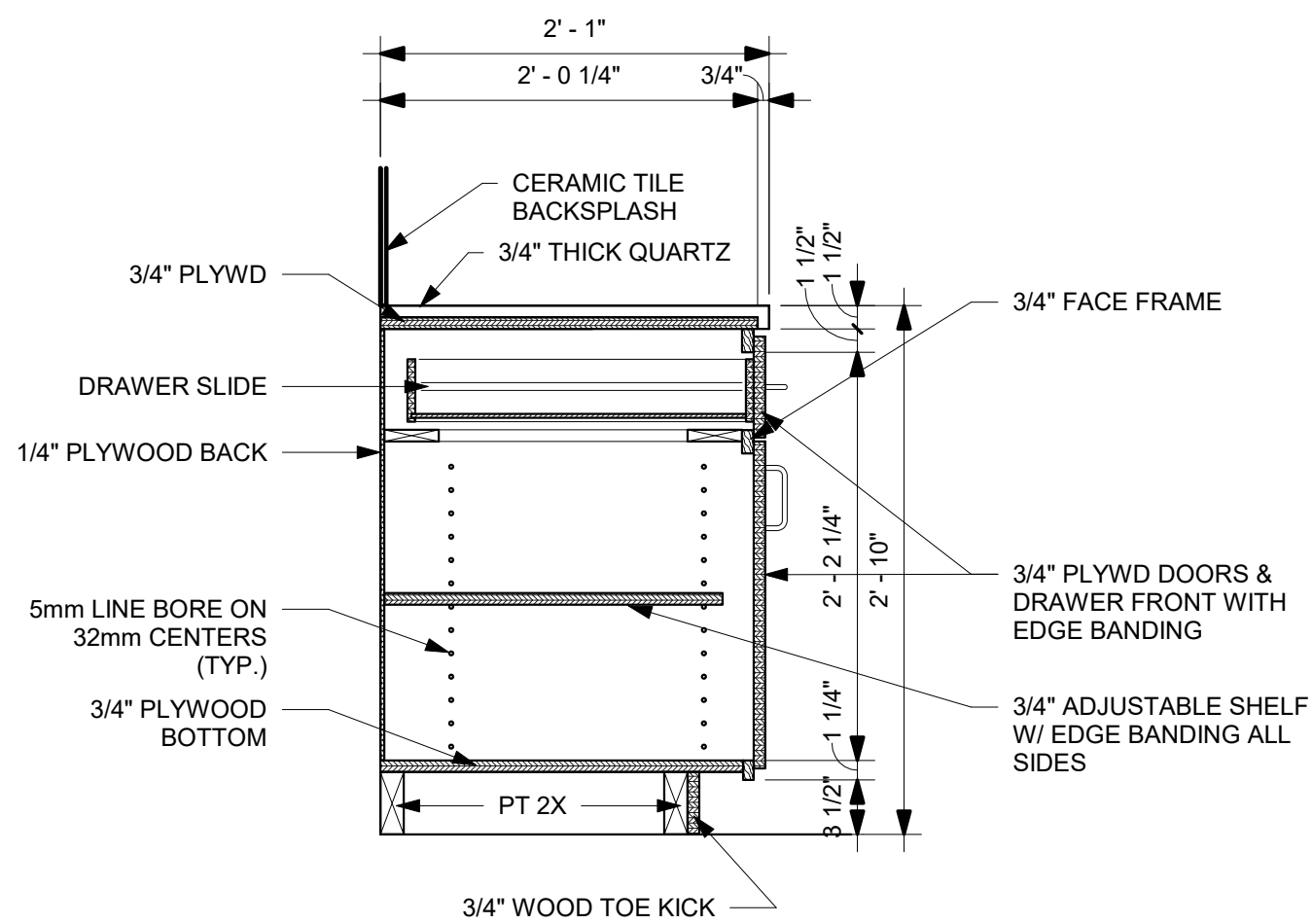
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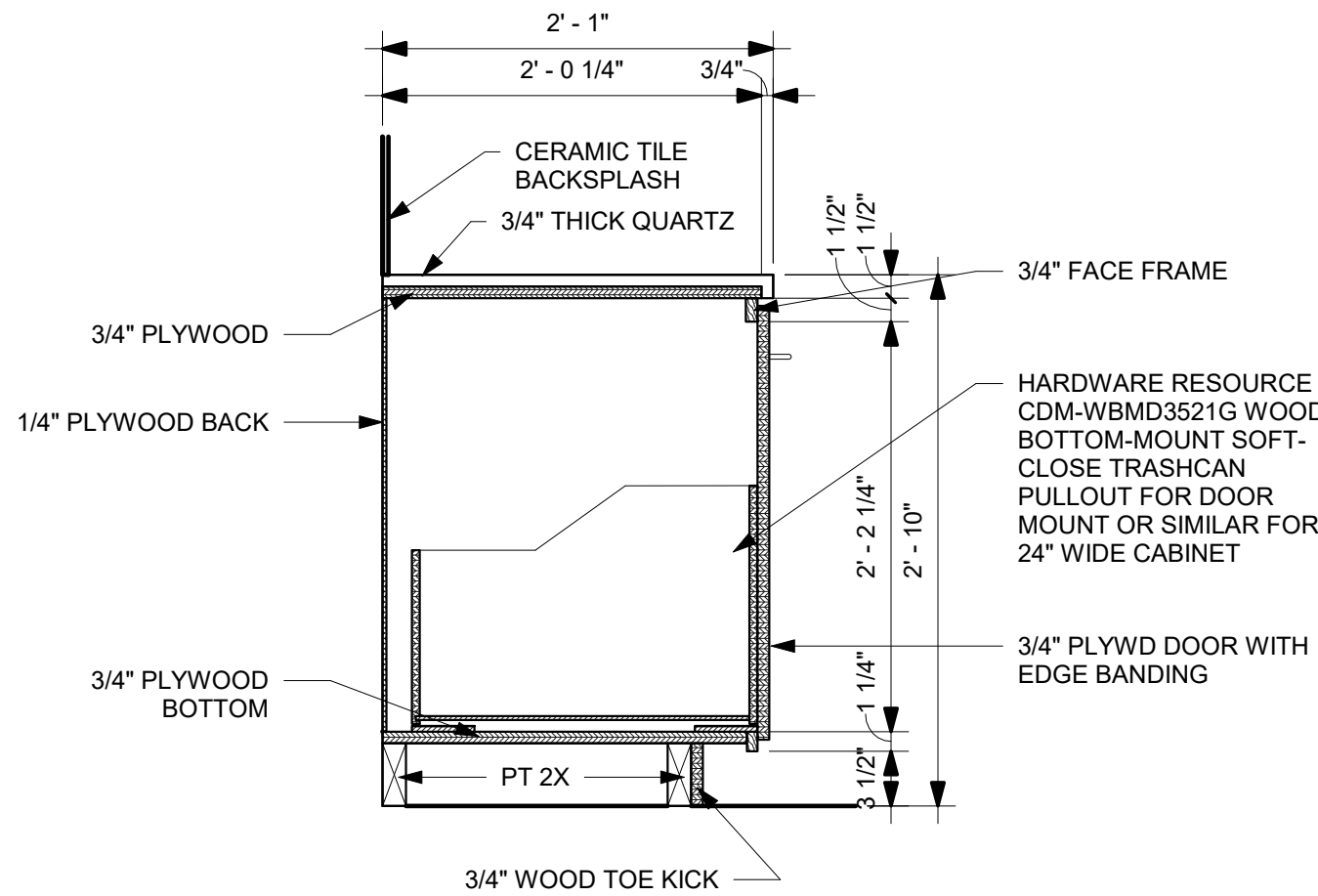
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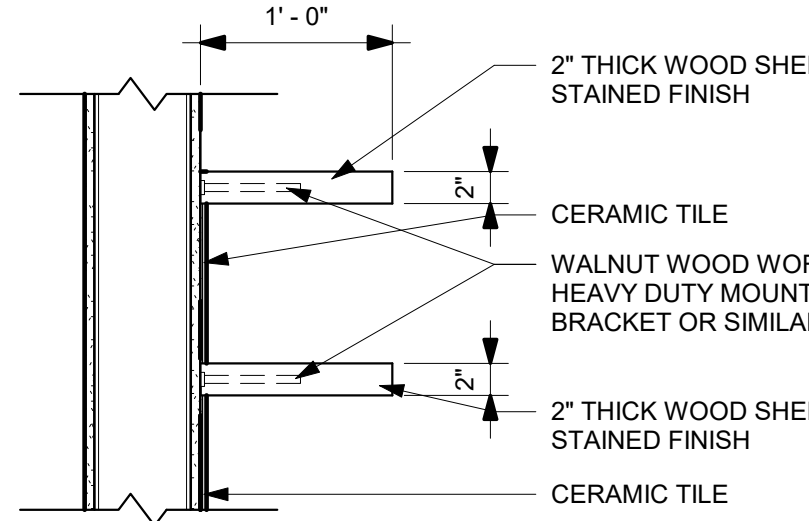
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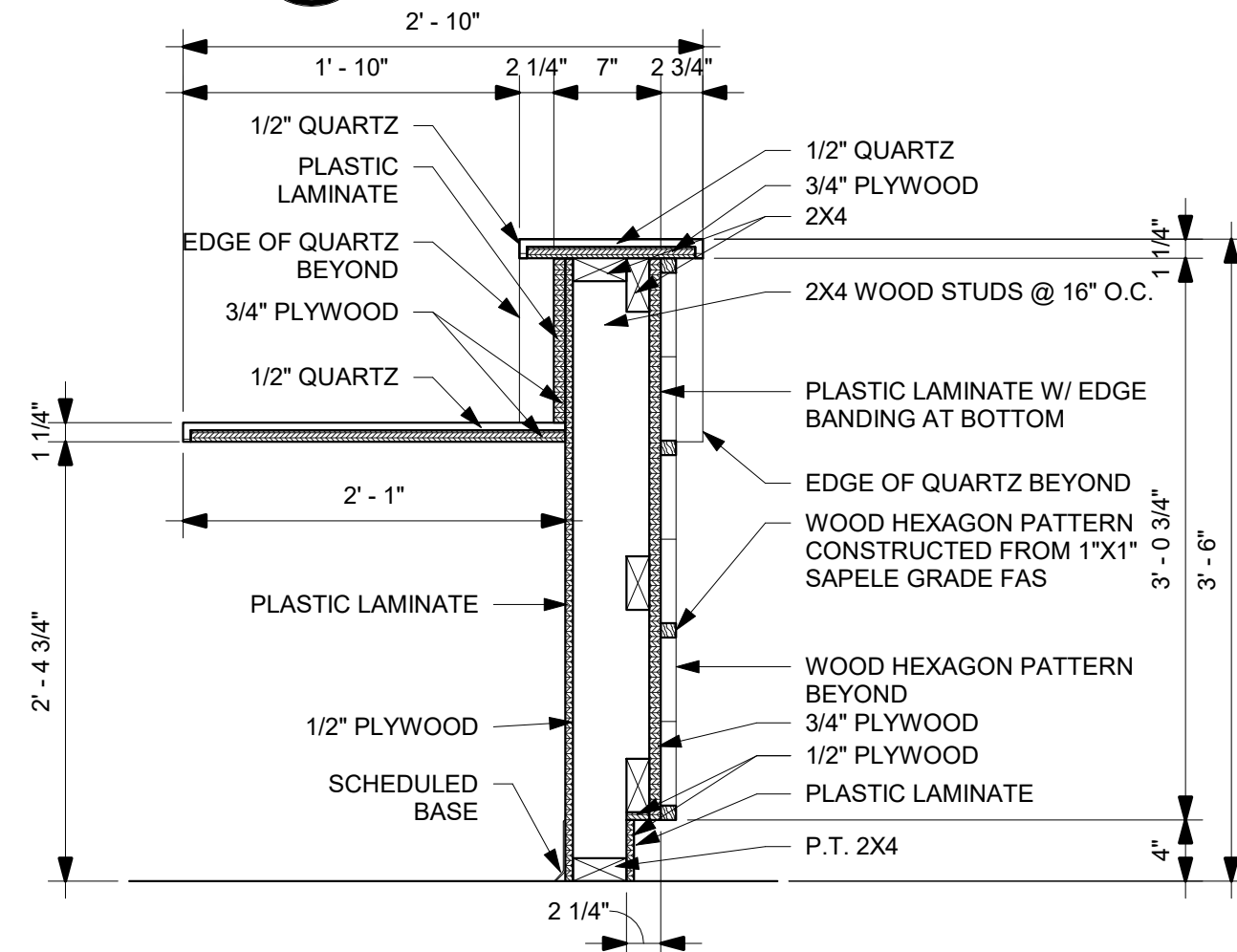
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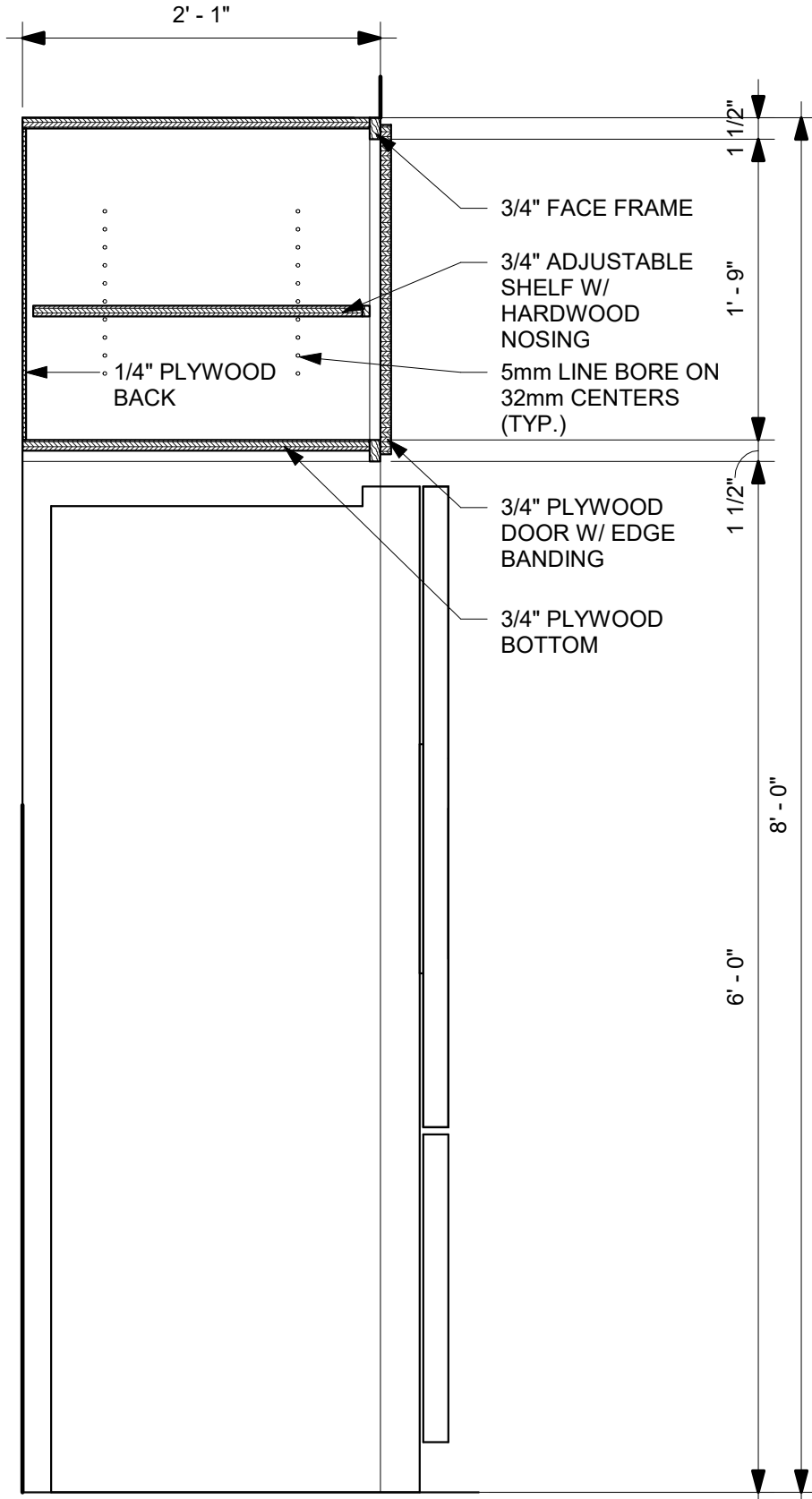
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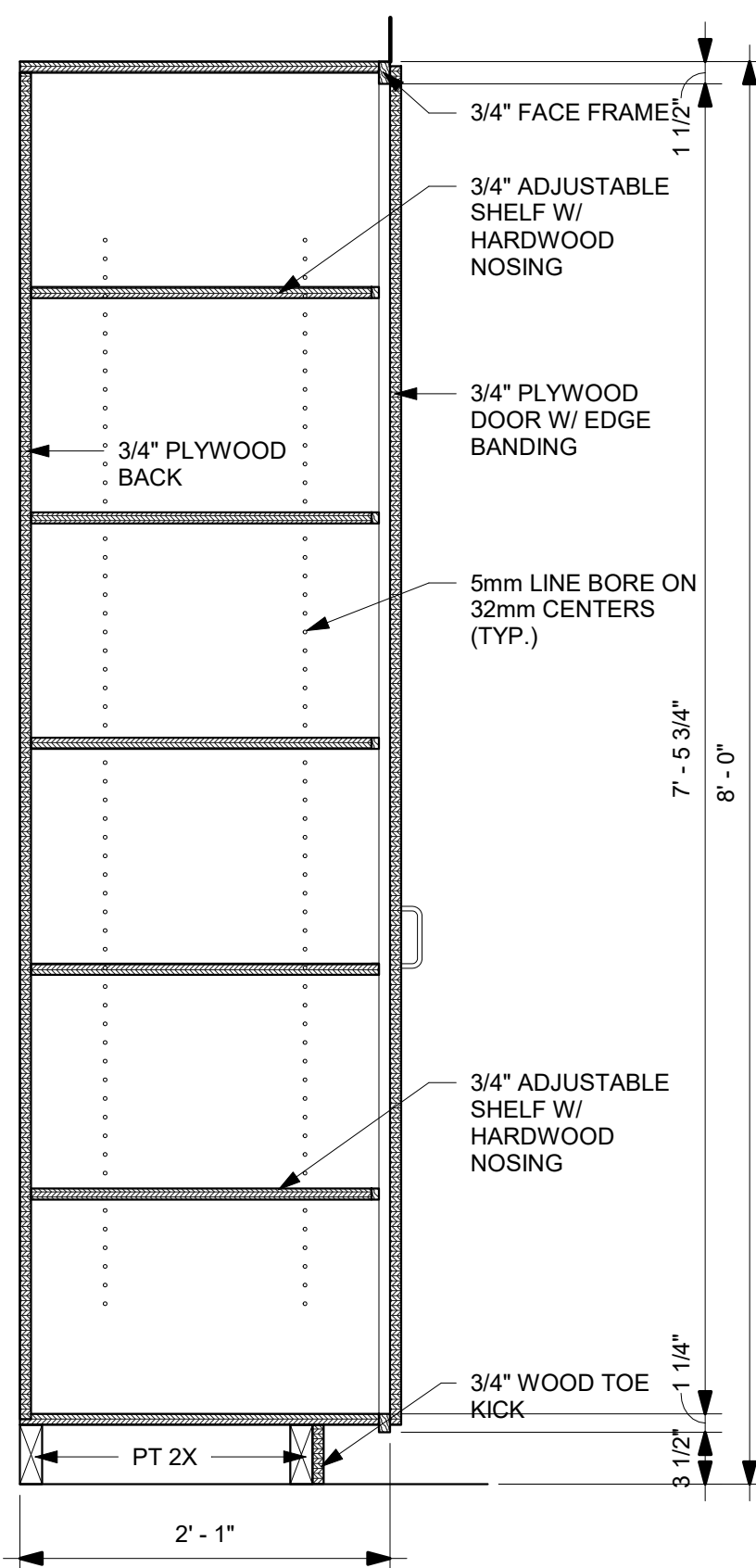
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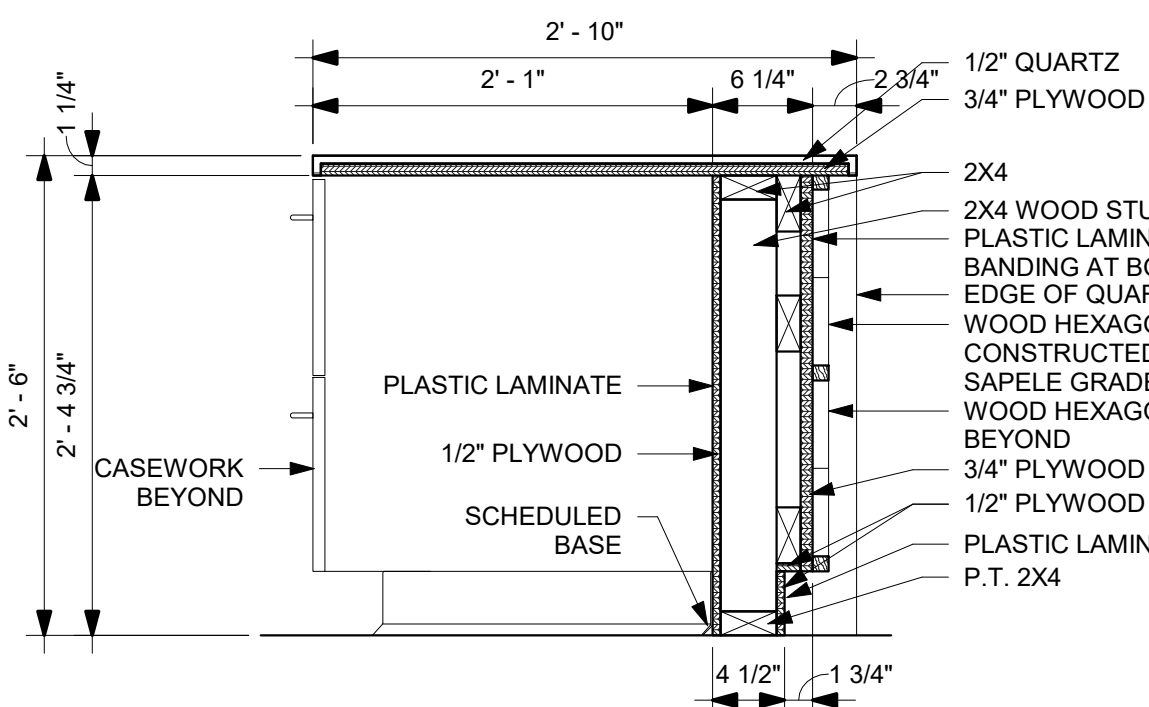
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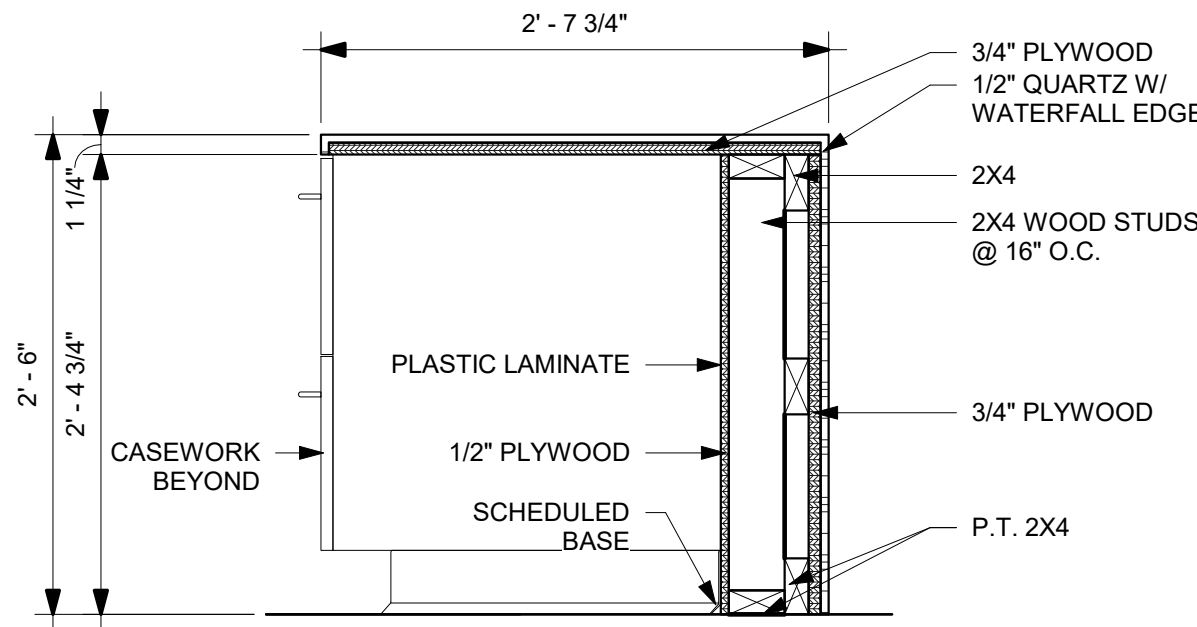
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A8.9  
SCALE: 1" = 1'-0"



9  
A8.9  
SCALE: 1" = 1'-0"



11  
A8.9  
SCALE: 1" = 1'-0"



12  
A8.9  
SCALE: 1" = 1'-0"



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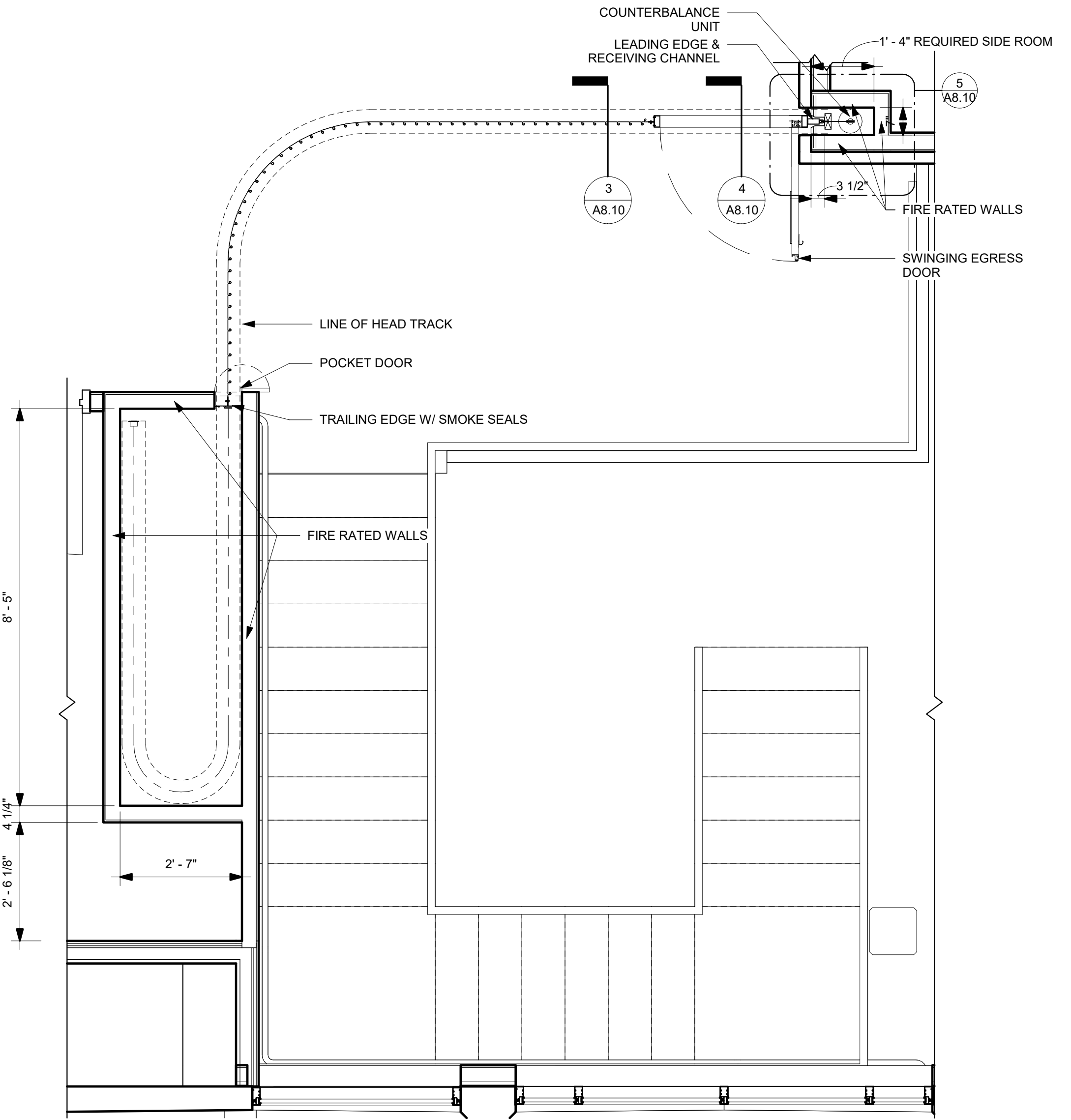
4951 FORSYTH ROAD, MACON, GA 31210

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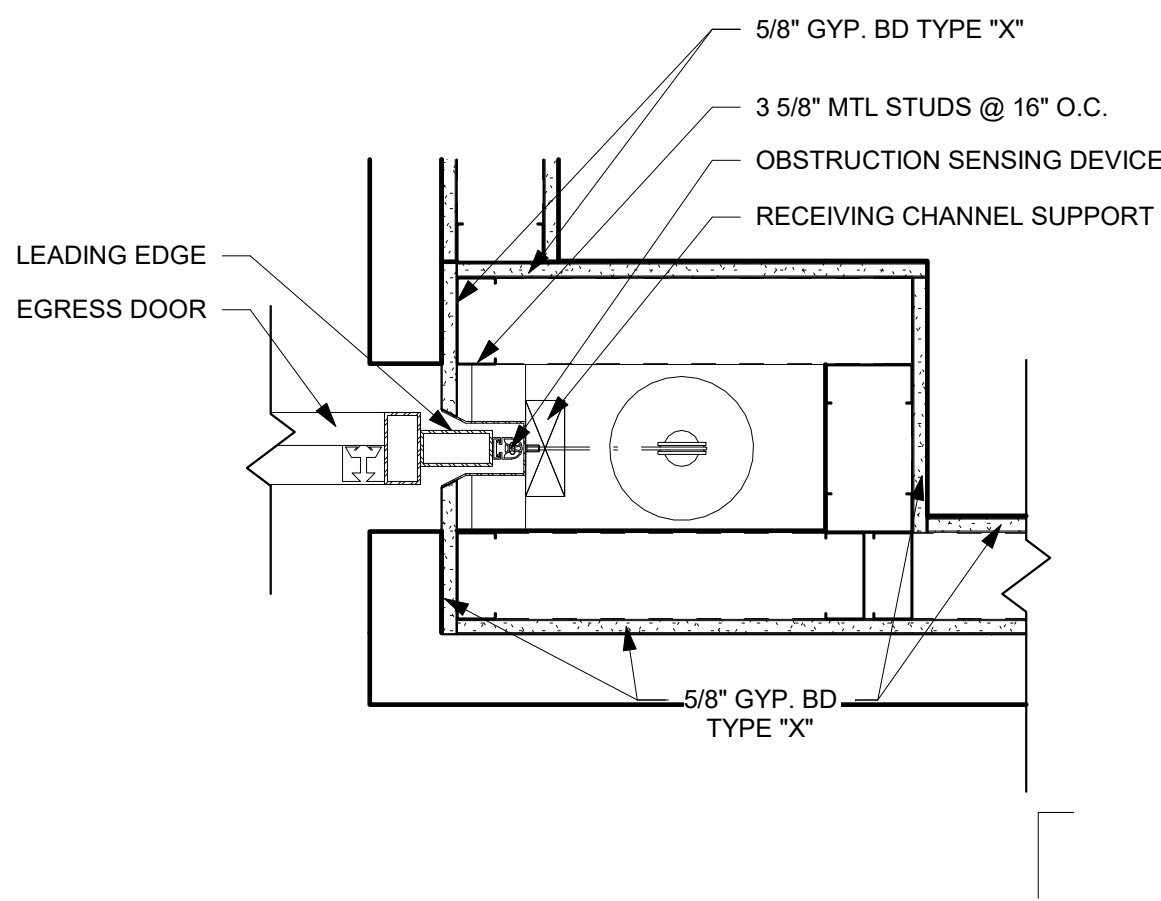
Sheet Title:  
CASEWORK  
DETAILS

Project #: 2229  
Date: 4/18/2025

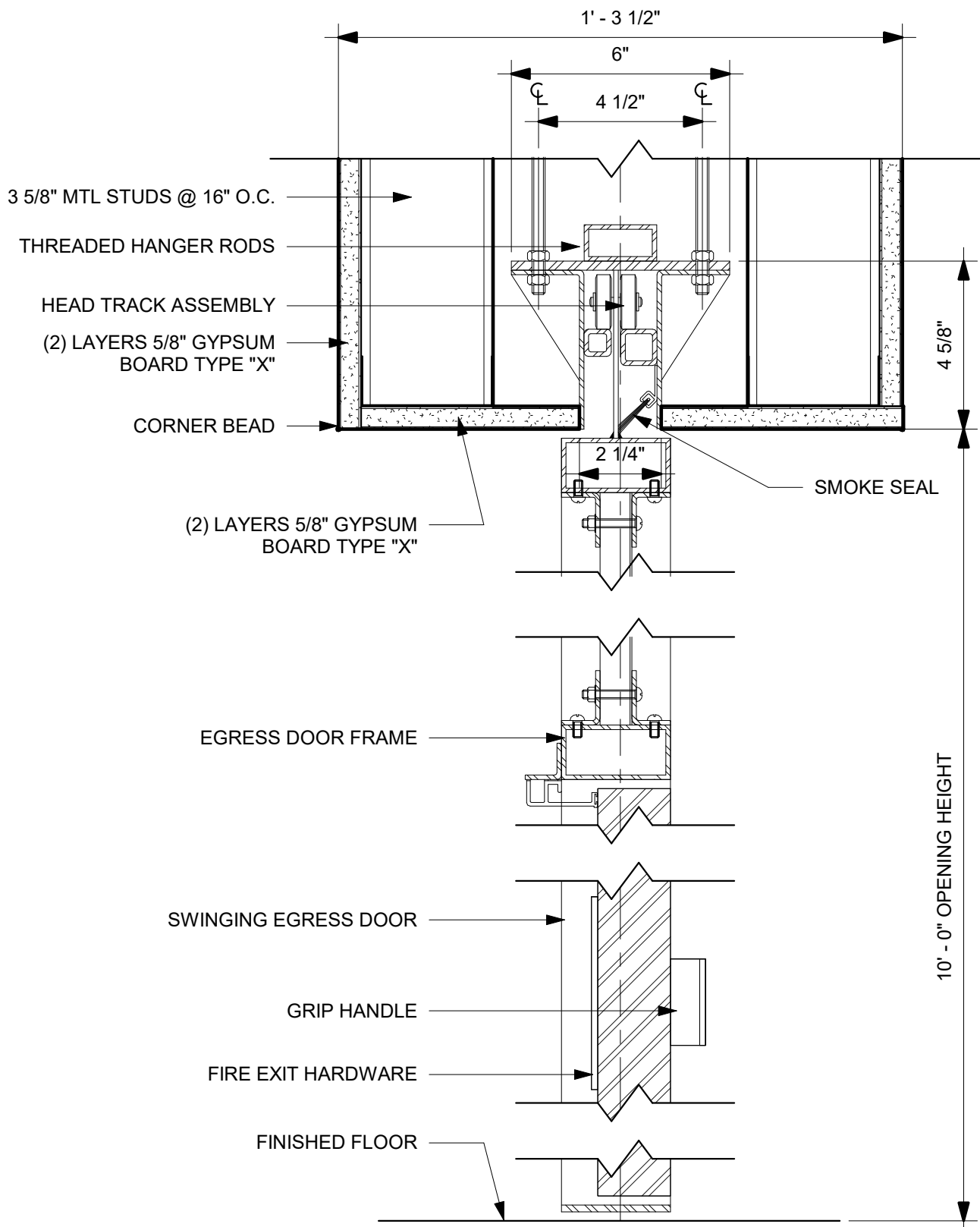
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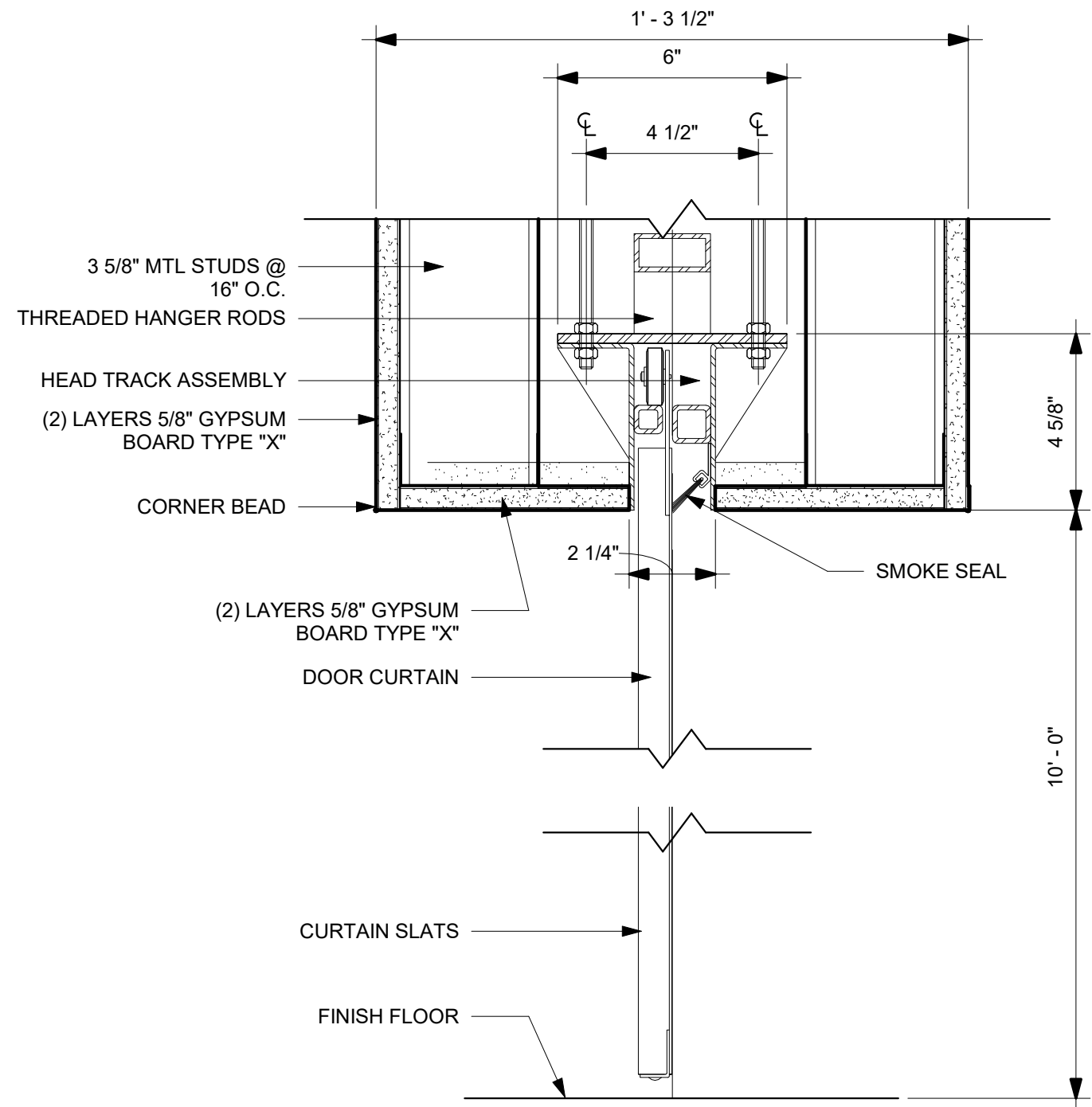
1 SLIDING FIRE DOOR PLAN  
A8.10 SCALE: 1/2" = 1'-0"



5 LEADING EDGE & RECEIVING CHANNEL DETAIL  
A8.10 SCALE: 1 1/2" = 1'-0"



4 McKEON SLIDING FIRE DOOR S7400 EGRESS DOOR (MOTOR SIDE)  
A8.10 SCALE: 3" = 1'-0"



3 McKEON SLIDING FIRE DOOR S7400 DOOR CURTAIN  
A8.10 SCALE: 3" = 1'-0"



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Sheet Title:  
**LARGE SCALE  
PLANS &  
DETAILS**

Project #: 2229 Date: 4/18/2025

**A8.10**



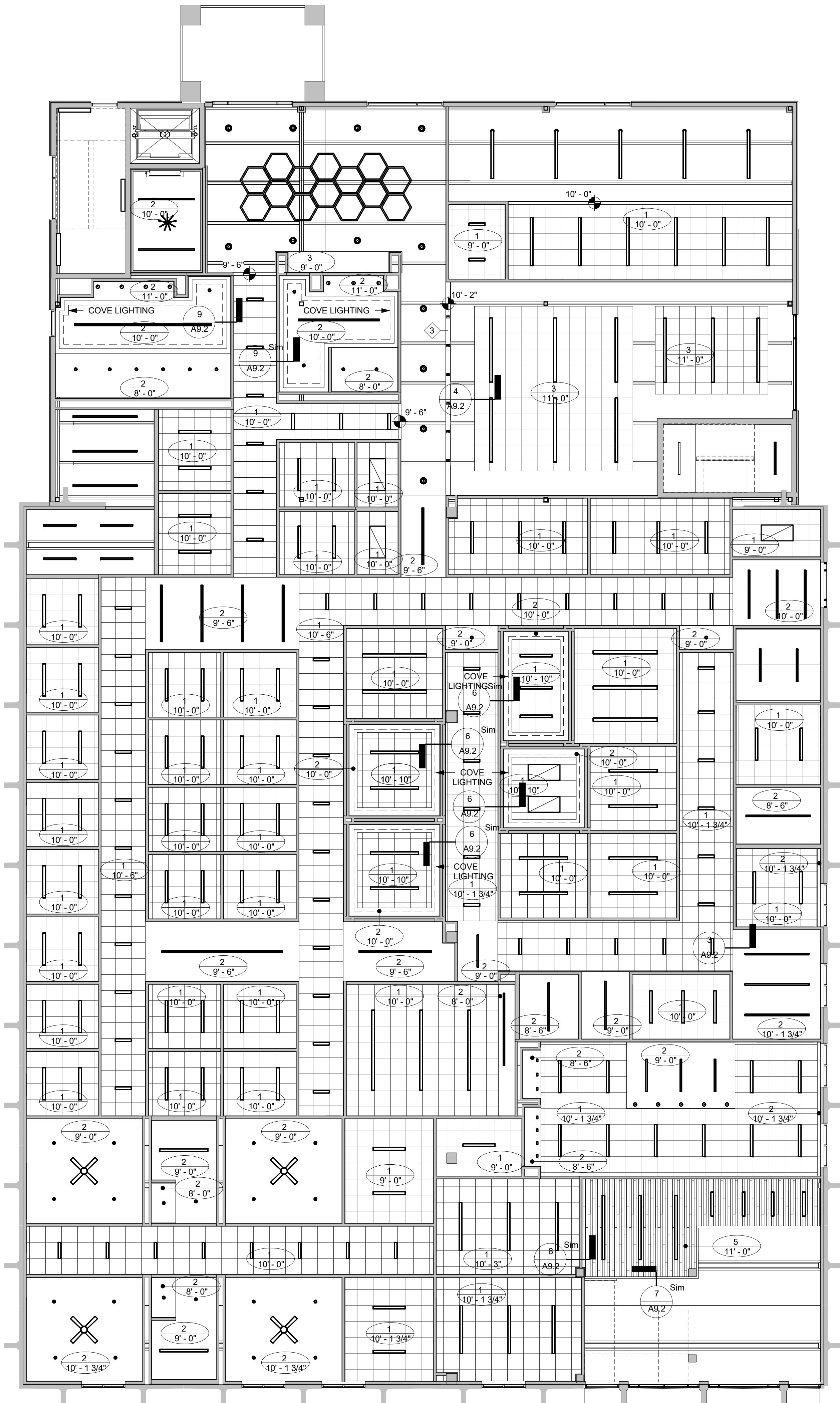
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1  
A9.1

NOTE: ALL MECHANICAL DUCTWORK TO HUG UNDERSIDE OF STRUCTURE TO PROVIDE CLEARANCE FOR CEILING HEIGHTS AND LIGHT FIXTURE DEPTHS

FIRST FLOOR REFLECTED CEILING PLAN

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

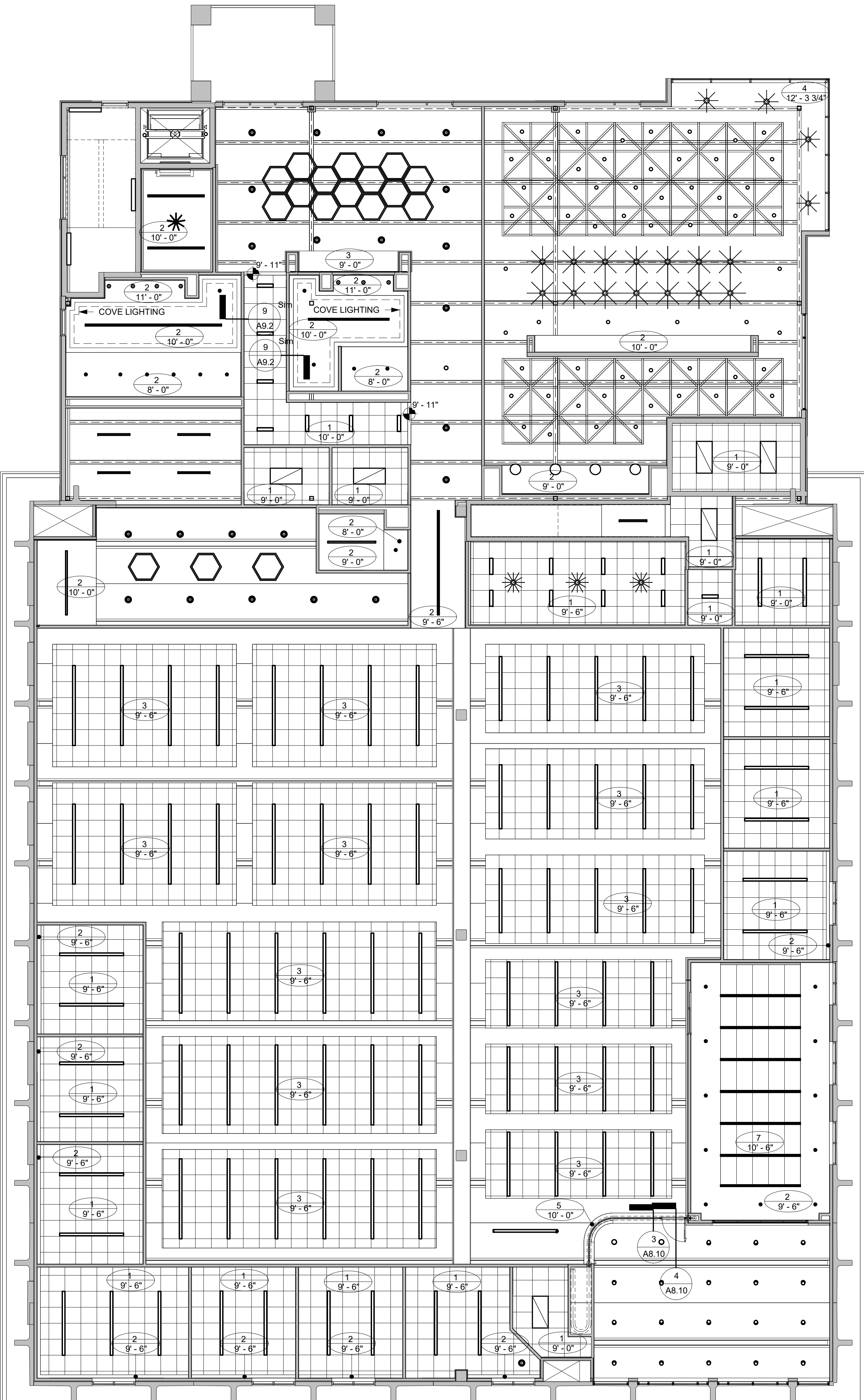


2  
A9.1

NOTE: ALL MECHANICAL DUCTWORK TO HUG UNDERSIDE OF STRUCTURE TO PROVIDE CLEARANCE FOR CEILING HEIGHTS AND LIGHT FIXTURE DEPTHS

SECOND FLOOR REFLECTED CEILING PLAN

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



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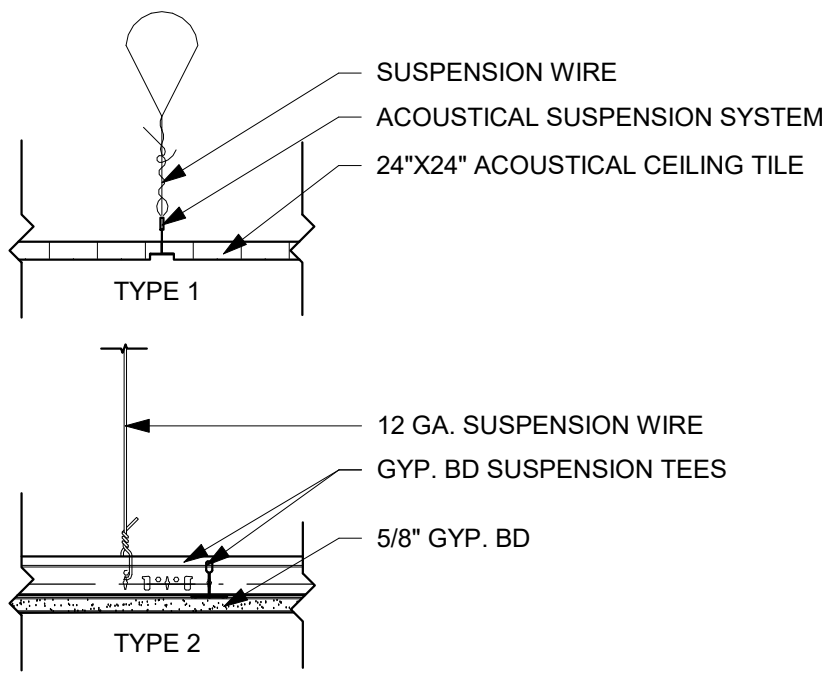
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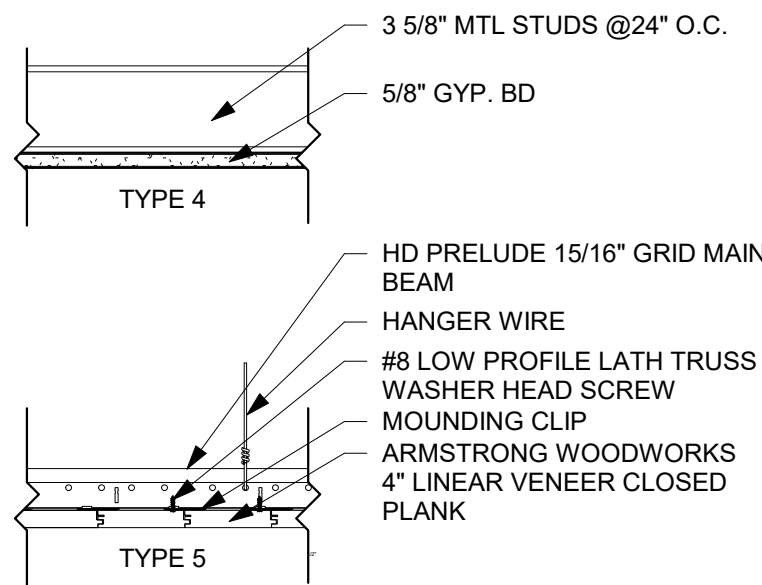
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**FIRST AND  
SECOND FLOOR  
REFLECTED  
CEILING PLANS**

Project #: 2229 Date: 4/18/2025

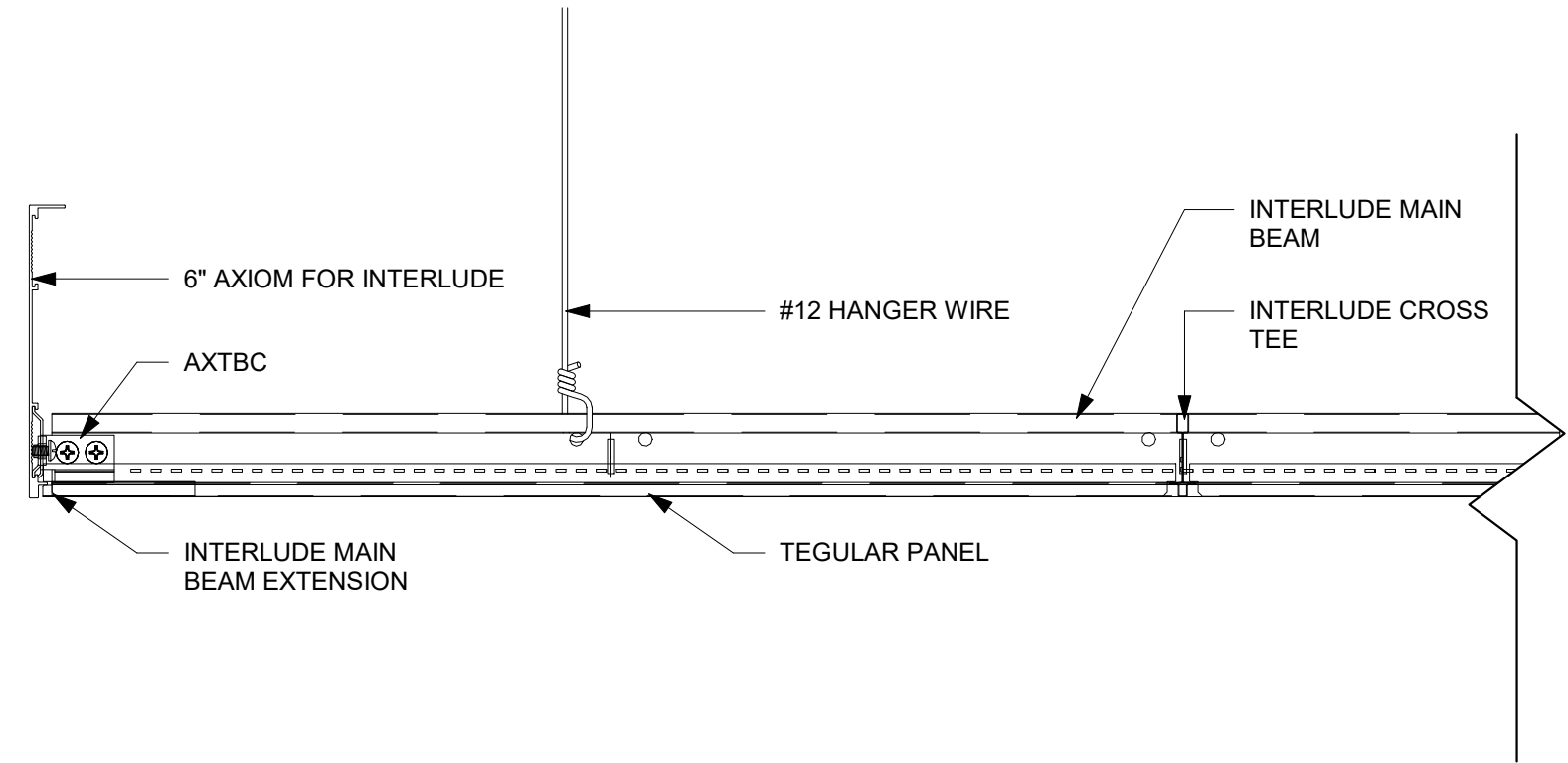
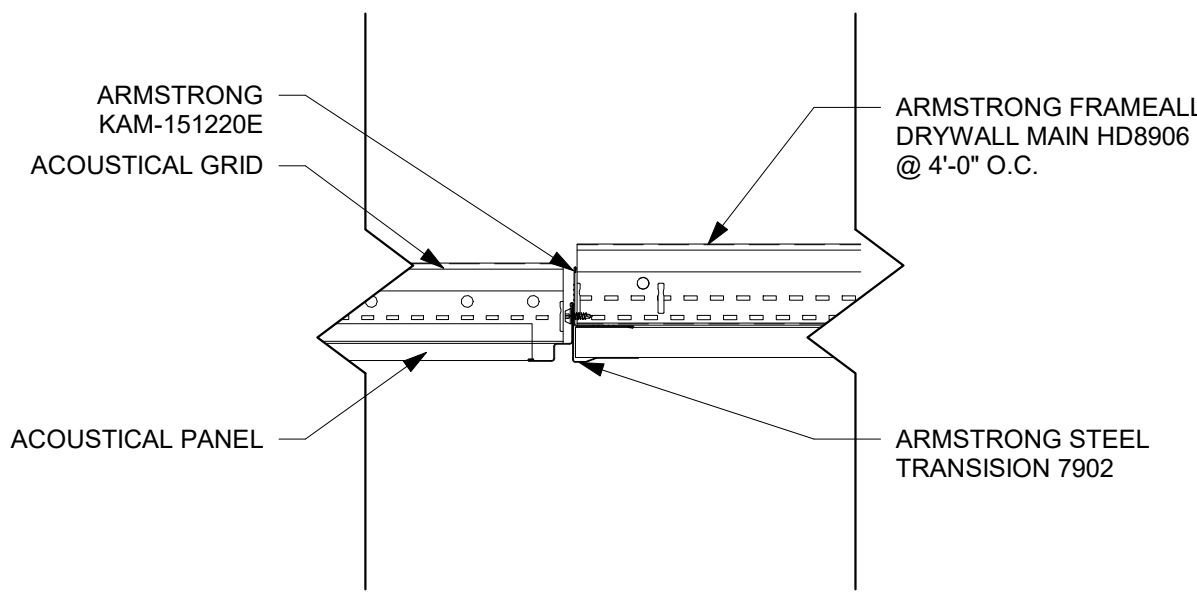
**A9.1**



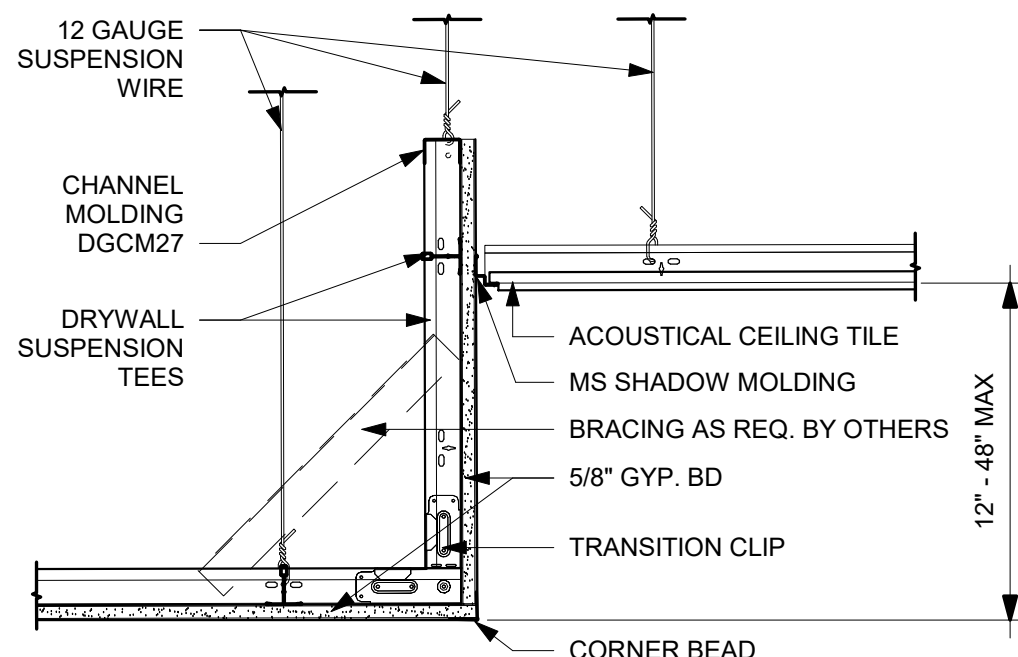
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A9.2 CEILING TYPES  
SCALE: 1 1/2" = 1'-0"



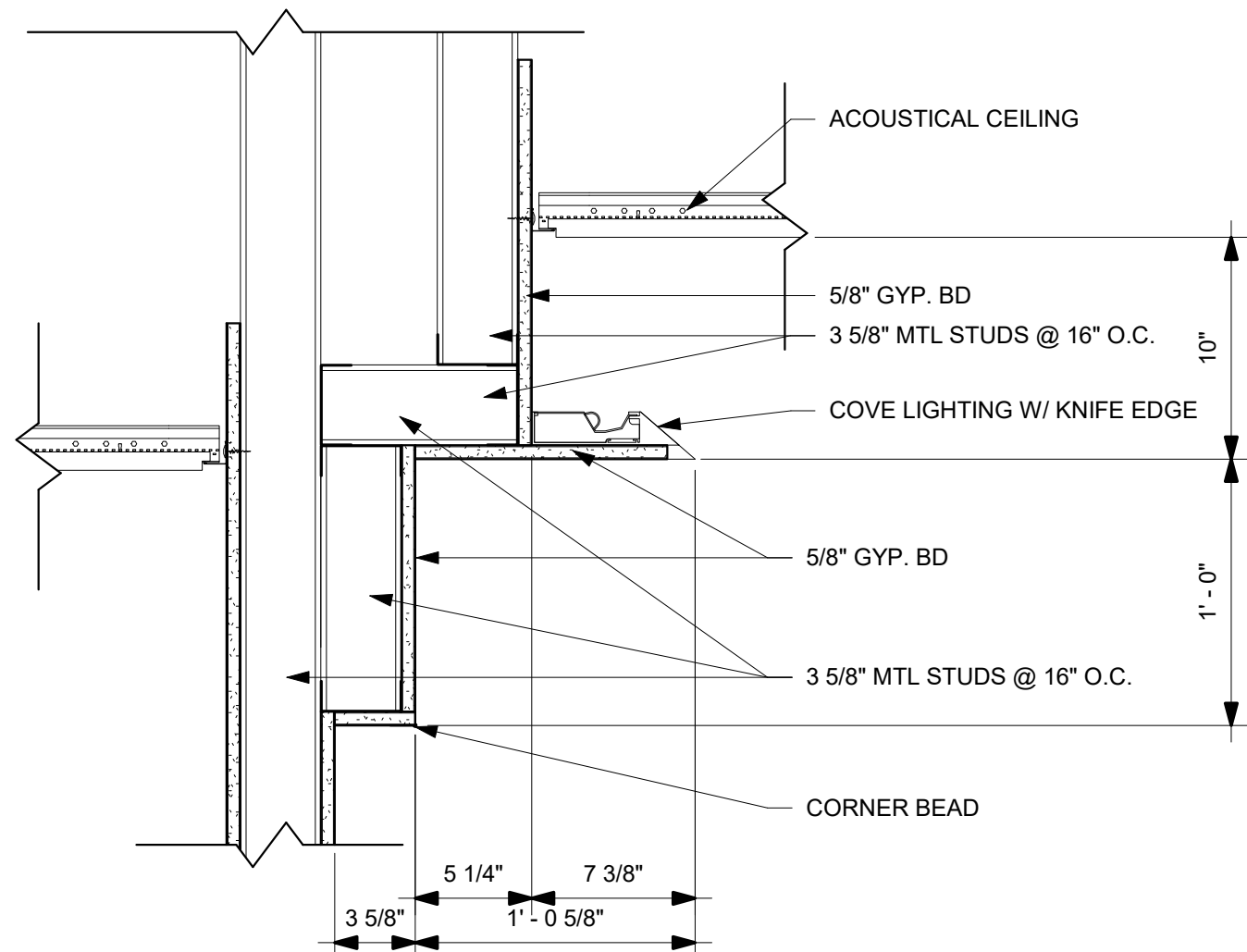
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A9.2 ACOUSTICAL GRID TO GYP. BD TRANSITION  
SCALE: 3" = 1'-0"



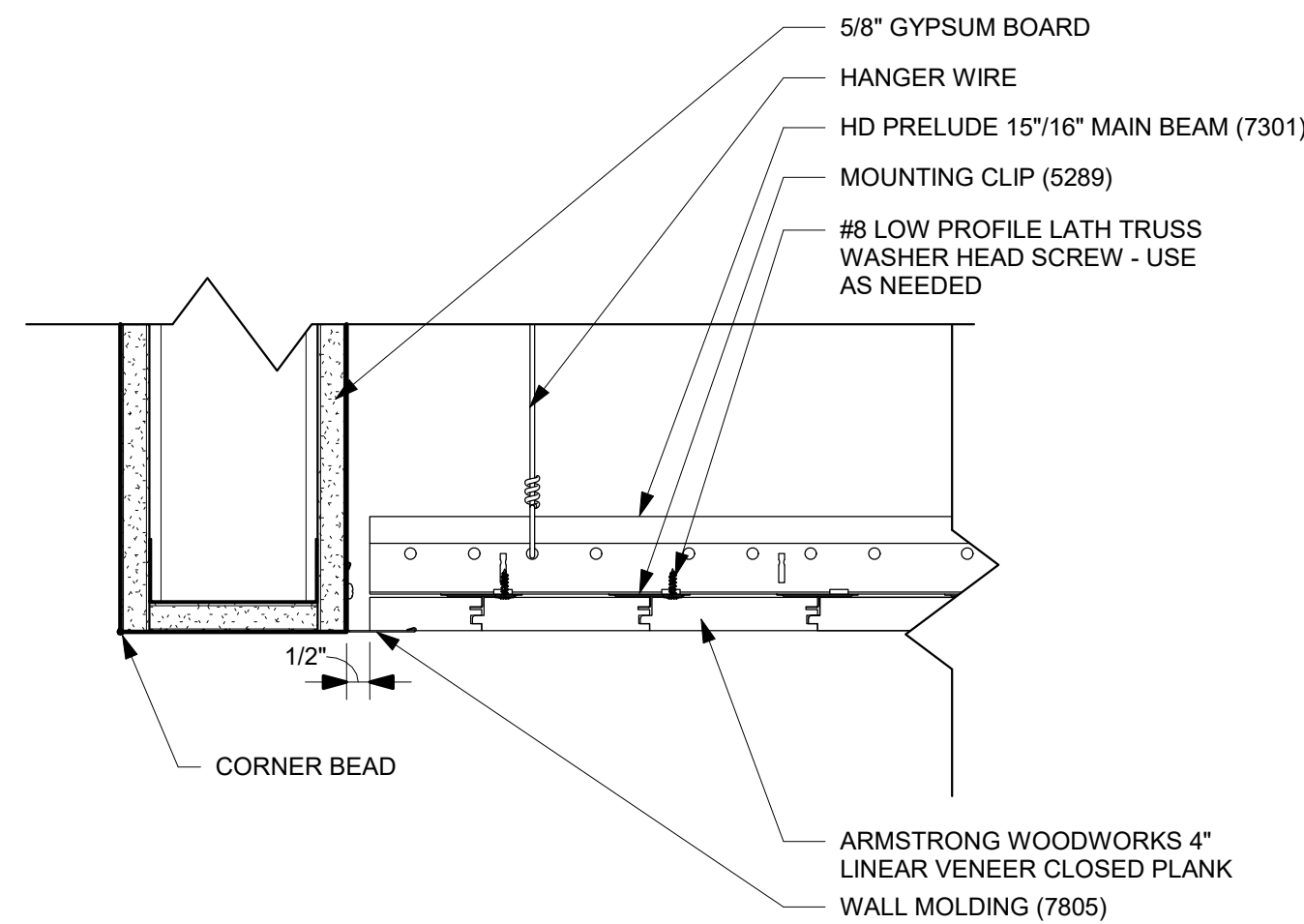
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A9.2 CEILING TYPE 3  
SCALE: 3" = 1'-0"



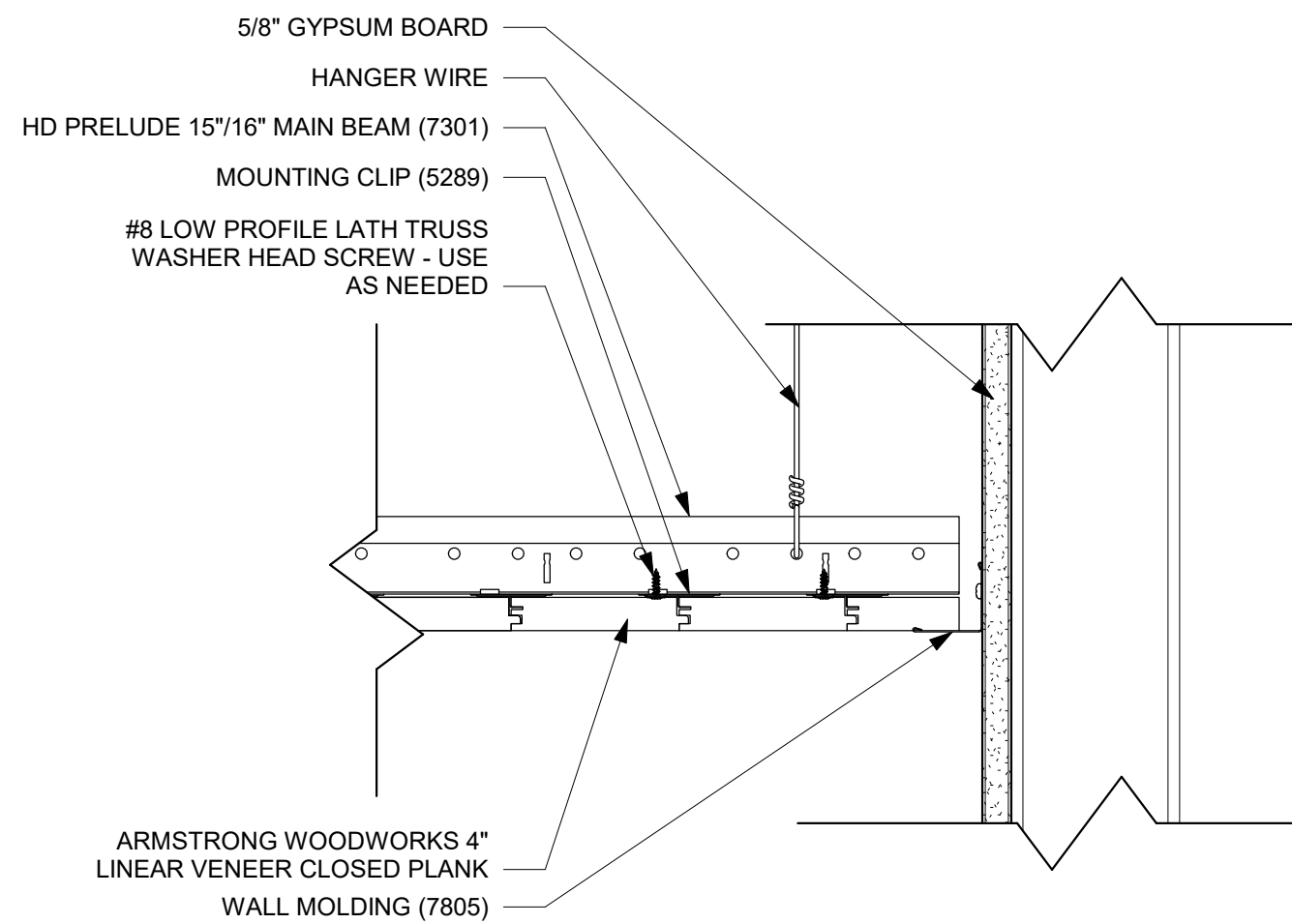
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A9.2 SUSPENSION SYSTEM LOW GYP. BD TO HIGH ACT CEILING  
SCALE: 1 1/2" = 1'-0"



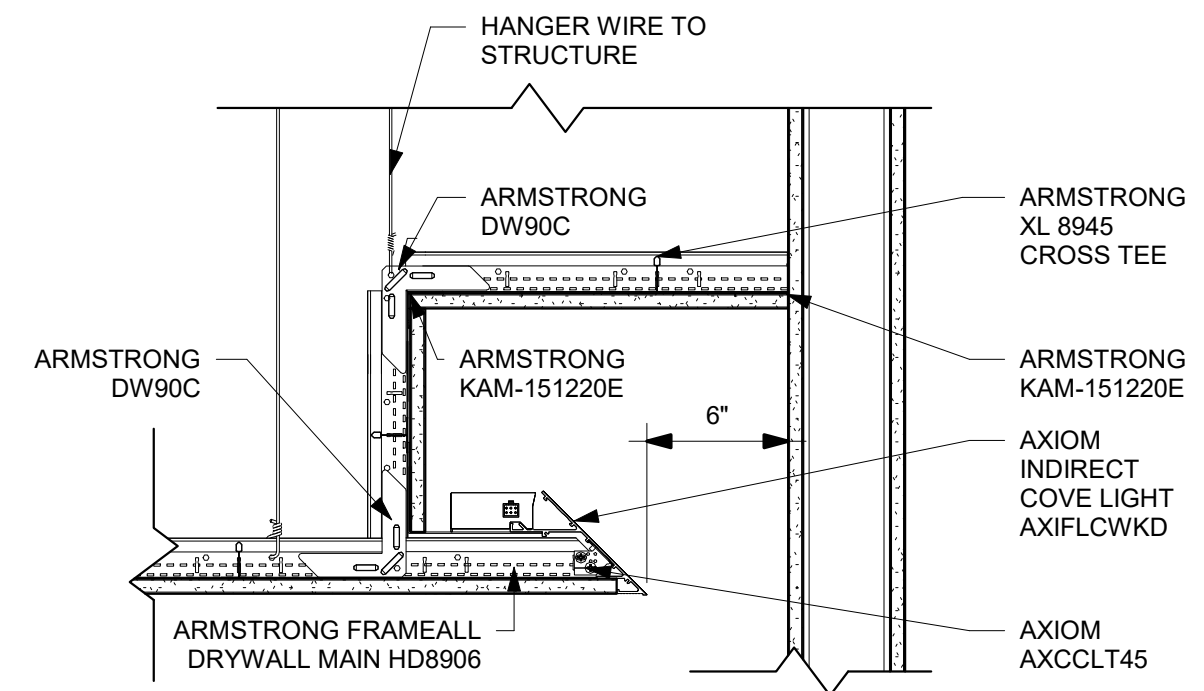
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A9.2 COVE LIGHTING DETAIL  
SCALE: 1 1/2" = 1'-0"



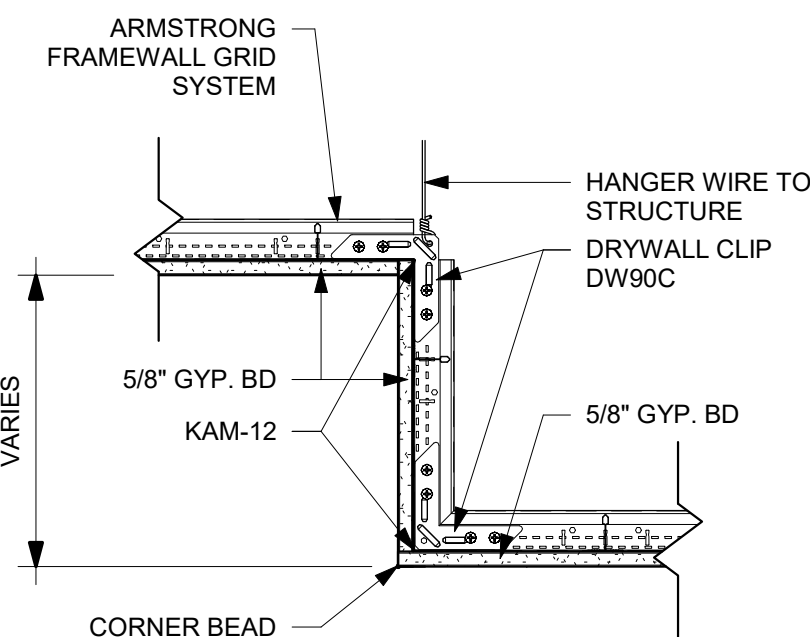
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A9.2 LINEAR WOOD CEILING DETAIL  
SCALE: 3" = 1'-0"



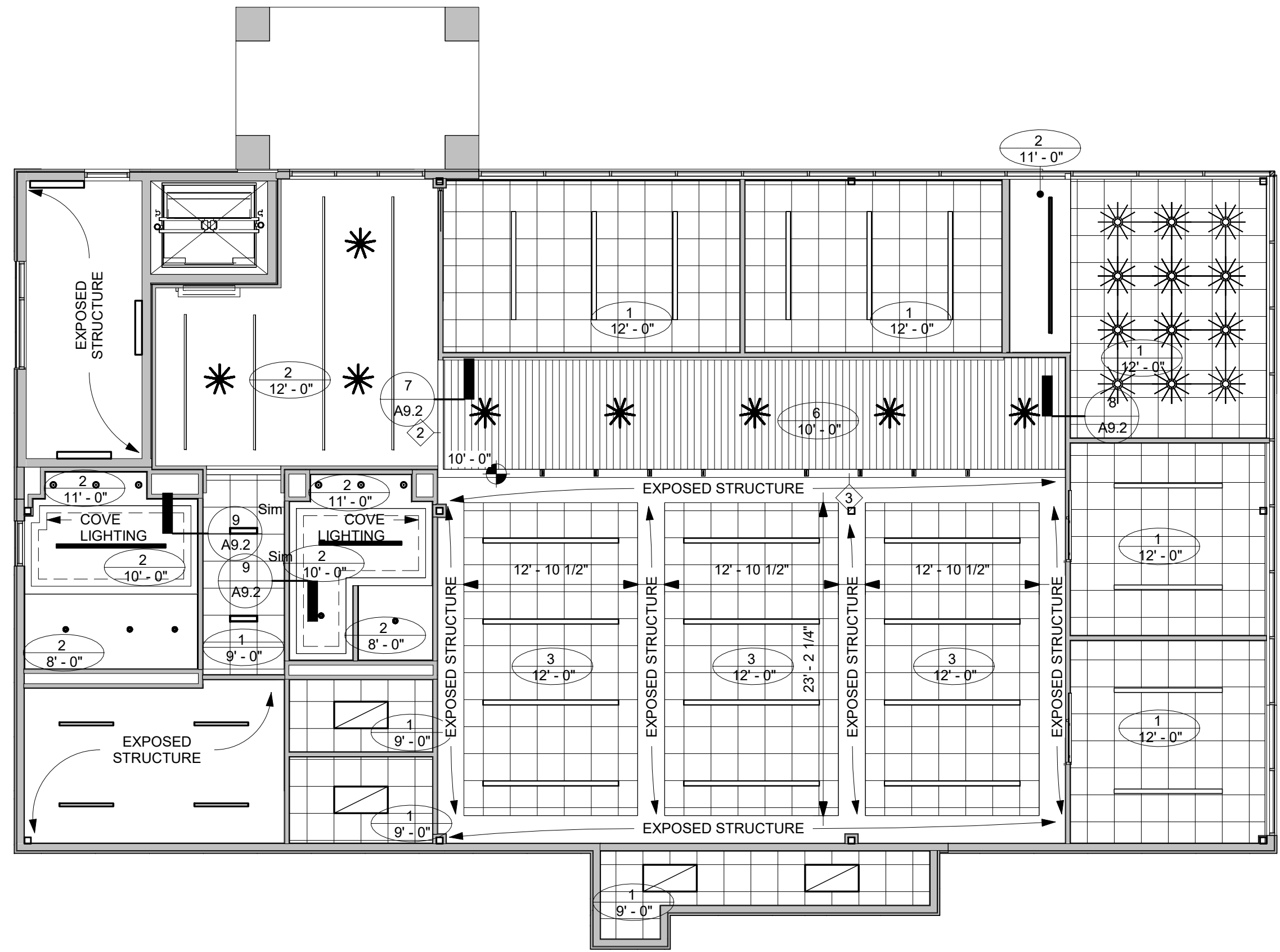
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A9.2 LINEAR WOOD CEILING DETAIL  
SCALE: 3" = 1'-0"



9  
A9.2 COVE LIGHTING DETAIL  
SCALE: 1 1/2" = 1'-0"



10  
A9.2 SUSPENSION SYSTEM LOW GYP. BD TO HIGH GYP. BD CEILING  
SCALE: 1 1/2" = 1'-0"



1  
A9.2 THIRD FLOOR REFLECTED CEILING PLAN  
SCALE: 1/8" = 1'-0"

NOTE: ALL MECHANICAL DUCTWORK TO HUG UNDERSIDE OF STRUCTURE TO PROVIDE CLEARANCE FOR CEILING HEIGHTS AND LIGHT FIXTURE DEPTHS



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Sheet Title:  
**THIRD FLOOR  
REFLECTED  
CEILING PLAN**

Project #: 2229    Date: 4/18/2025

**A9.2**



GENERAL

1. SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES. COORDINATE THESE DRAWINGS WITH EXISTING CONDITIONS, AND COORDINATE ALL DIMENSIONS AND WALL LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITHIN THE CONSTRUCTION DOCUMENTS.
2. THE STRUCTURAL DRAWINGS SHOULD NOT BE USED TO SIZE OR LOCATE DOORS, WINDOWS, TOILET PARTITIONS, OR NON-LOAD BEARING WALLS.
3. SEE ARCHITECTURAL FOR ALL EXPANSION JOINT COVERS.
4. DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, WITH GEORGIA AMENDMENTS.
5. DESIGN LOADS:

LIVE LOAD INFORMATION  
A. ROOF LIVE LOAD (REDUCED FOR TRIBUTARY AREA) = 20 PSF  
B. FLOOR LIVE LOAD = STAIRS = 100 PSF  
C. FLOOR LIVE LOAD = 100 PSF

FLOOR DEAD LOADING INFORMATION  
A. 5 PSF STEEL FRAMING SYSTEM  
B. 40 PSF 3/4" FLYWOOD  
C. 60 PSF COLLATERAL LOAD (LIGHTS, HVAC, SPRINKLER, ETC.)  
D. WEIGHT OF WALLS CONTRIBUTING TO DESIGN LOAD VARIES  
E. SEE FRAMING PLAN FOR OTHER CONCENTRATED LOADS

ROOF DEAD LOADING INFORMATION  
A. 10 PSF STEEL FRAMING SYSTEM, DECKING, INSULATION AND ROOFING  
B. 60 PSF COLLATERAL LOAD (LIGHTS, HVAC, SPRINKLER, ETC.)  
C. SEE FRAMING PLAN FOR OTHER CONCENTRATED LOADS

SNOW LOAD INFORMATION  
A. GROUND SNOW LOAD (FG) = 5 PSF  
B. FLAT-ROOF SNOW LOAD (RF) = 5.5 PSF  
C. SNOW EXPOSURE FACTOR (CE) = 1.0  
D. SNOW LOAD IMPORTANCE FACTOR(IS) = 1.1  
E. THERMAL FACTOR (CT) = 1.0

WIND LOAD INFORMATION  
A. ULT. WIND SPEED = 110 MPH  
B. ASD WIND SPEED = 85 MPH  
C. WIND IMPORTANCE FACTOR (IW) = 1.0  
D. RISK CATEGORY = II  
E. WIND EXPOSURE = I  
F. INTERNAL PRESSURE COEFFICIENT = +/- 0.8  
G. COMPONENTS AND CLADDING = VARIES

SEISMIC DESIGN INFORMATION  
A. SEISMIC IMPORTANCE FACTOR (IE) = 1.0  
B. SEISMIC DESIGN CATEGORY = C  
C. 0.2 SECOND SPECTRAL RESPONSE ACCELERATION (SS) = 0.22  
D. 1 SECOND SPECTRAL RESPONSE ACCELERATION (SI) = 0.084  
E. 0.7 DESIGN SPECTRAL RESPONSE ACCELERATION (SDS) = 0.235  
F. 1 DESIGN SECOND SPECTRAL RESPONSE ACCELERATION (SD1) = 0.134  
G. SITE CLASS = D (PER GEOTECHNICAL REPORT)  
H. RESPONSE MODIFICATION COEFFICIENT (R) = 3.5  
I. SYSTEM OVERSTRENGTH FACTOR = 3  
J. DEDUPLICATION AMPLIFICATION FACTOR (CD) = 4  
K. SEISMIC RESPONSE COEFFICIENT (CS) = 0.013  
L. DESIGN BASE SHEAR (VX) = VARIES  
M. BASIC SEISMIC FORCE RESISTING SYSTEM - CMU SHEAR WALLS  
N. ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE  
O. SEISMIC RISK CATEGORY = II

RAIN INTENSITY FACTOR = 4.0 INCHES PER HOUR

6. ALL THE SAFETY REGULATIONS, METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING, AND FRAMEWORK, ETC. AS REQUIRED.
7. DIMENSIONS ARE NOT TO BE DERIVED BY SCALING THESE DRAWINGS. IF THERE IS ANY QUESTION ABOUT DETAILS OR DIMENSIONS, CONTACT THE ARCHITECT AND STRUCTURAL ENGINEER FOR CLARIFICATION.
8. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL ALSO APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS NOTED OTHERWISE.
9. ISOMETRIC VIEWS ARE FOR ILLUSTRATIVE PURPOSES ONLY. NO INFORMATION ABOUT THE STRUCTURE OR ITS COMPONENTS SHALL BE TAKEN OR ASSUMED FROM THEM.
10. CONTRACTOR SHALL TAMP THE VIRGIN SOIL AFTER EXCAVATION UNTIL NO VISIBLE SOIL RUTTING OCCURS FOR THE FULL SIZE OF THE FOOTING. IF SOIL TAMPING DOES NOT COMPACT SOIL TO THIS CRITERIA, THE ENGINEER SHALL BE NOTIFIED TO DETERMINE SOIL REMEDIATION REQUIREMENTS.

SUBMITTALS

1. THE CONTRACT DOCUMENTS ARE THE STRUCTURAL ENGINEER'S INSTRUMENTS OF SERVICE TO CONVEY DESIGN INTENT. THEY ARE NOT TO BE CONSIDERED FABRICATION OR LAYOUT DRAWINGS.
2. THE FOLLOW ARE REQUIRED SUBMITTALS
- A. CONCRETE MIX DESIGN(S)  
B. REINFORCING BAR DRAWINGS  
C. MASONRY MATERIAL CERTIFICATES, ACCESSORIES, AND GROUT MIX DESIGN  
D. STRUCTURAL STEEL  
E. METAL DECK  
F. STEEL JOISTS  
G. LIGHT GAUGE METAL FRAMING  
H. OTHER SUBMITTALS AS NOTED ON THE DRAWINGS AND SPECIFICATIONS
3. SUBMITTALS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER AND SHALL BEAR THE CONTRACTOR'S STAMP ATTESTING TO THE DRAWINGS NOT STAMPED WILL NOT BE REVIEWED. SUBCONTRACTOR'S UNCHECKED SUBMITTAL DRAWINGS WILL NOT BE REVIEWED.
4. SUBMITTALS TO BE REVIEWED BY THE STRUCTURAL ENGINEER SHALL BE SUBMITTED TO THE ARCHITECT. THE STRUCTURAL ENGINEER WILL NOT ACCEPT SUBMITTALS DIRECTLY FROM CONTRACTORS WITHOUT THE STRUCTURAL ENGINEER'S PRIOR APPROVAL.
5. UPON COMPLETION OF THE STRUCTURAL ENGINEER'S REVIEW, SUBMITTALS WILL BE RETURNED TO THE ARCHITECT FOR THEIR REVIEW.
6. ANY DEVIATION IN DESIGN, DETAILS, DIMENSIONS, ETC. FROM THE CONSTRUCTION DOCUMENTS SHALL BE CLOUDED ON THE SUBMITTAL AND VERIFICATION OF THE CHANGE SHALL BE REQUESTED.

FOUNDATIONS

1. THE FOUNDATION IS DESIGNED USING AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 2000 PSF BASED ON 2018 IBC SECTION 1806. IF THE BEARING CONDITIONS VARY FROM WHAT IS SHOWN, OR IF THE SOIL BEARING CAPACITY IS QUESTIONABLE, THE ARCHITECT AND STRUCTURAL ENGINEER ARE TO BE NOTIFIED IMMEDIATELY.
2. ALL BUILDING AREAS SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AT OPTIMUM OPTIMUM MOISTURE CONTENT AS DETERMINED IN ACCORDANCE WITH ASTM D698, CURRENT EDITION.
3. A REGISTERED GEOTECHNICAL ENGINEER REPRESENTING THE OWNER SHALL BE PRESENT TO MONITOR COMPACTION AND SETTLEMENT AND VERIFY THE BEARING CAPACITY. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ON-SITE GEOTECHNICAL ENGINEER.
4. REMOVE ALL TOPSOIL, ROOT SYSTEM OR OTHER DELETERIOUS MATERIAL UNDER PROPOSED SLAB AND COLUMN FOOTINGS AND REPLACE WITH SUITABLE COMPACTED FILL OR CRUSHED STONE. STRUCTURAL ENGINEER'S DECISION ON QUESTIONABLE MATERIAL SHALL BE FINAL.
5. BACKFILLING SHALL BE PERFORMED IN EQUAL LIFTS AROUND THE BUILDING PERIMETER TO BALANCE LATERAL EARTH PRESSURE ON THE BUILDING. WALK BEHIND COMPACTION EQUIPMENT IS REQUIRED WITHIN A DISTANCE OF TWO TIMES THE WALL HEIGHT.
6. BACKFILL AGAINST STRUCTURAL WALLS SHALL NOT BE PERFORMED UNTIL WALL AND SLAB ON GRADE HAS OBTAINED SPECIFIED STRENGTH.
7. IF REQUIRED BY THE GEOTECHNICAL REPORT OR THE ON-SITE GEOTECHNICAL ENGINEER, THE GROUND WATER TABLE SHALL BE LOWERED.
8. ALL FOOTINGS TO BE CENTERED UNDER THE COLUMNS OR WALLS THEY SUPPORT, UNLESS NOTED OTHERWISE ON THE DRAWING.
9. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL. IN WRITING, THE CONTRACTOR SHALL LOCATE ANY EXISTING UNDERGROUND UTILITIES PRIOR TO ANY CONSTRUCTION.
10. INSPECTIONS BY GEOTECH FIRM ARE REQUIRED FOR EXISTING SOILS CONDITIONS, FILL PLACEMENT, AND LOAD BEARING REQUIREMENTS:
- A. SITE PREPARATION: PRIOR TO PLACEMENT OF PREPARED FILL, THE INSPECTOR SHALL DETERMINE THAT THE SITE HAS BEEN PREPARED IN ACCORDANCE WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.
- B. FILL PLACEMENT: DURING PLACEMENT AND COMPACTION OF FILL MATERIAL, THE INSPECTOR SHALL DETERMINE THAT THE PROPER FILL MATERIAL IS BEING USED AND THAT THE MAXIMUM LIFT THICKNESS IS FOLLOWED IN ACCORDANCE WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.
- C. EVALUATION OF IN-PLACE DENSITY: THE INSPECTOR SHALL DETERMINE, AT THE FREQUENCIES DETERMINED IN THE SOILS REPORT AND PROJECT SPECIFICATIONS, THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL COMPLIES WITH THE ABOVE-REFERENCED GEOTECHNICAL REPORT.

CONCRETE

1. ALL CONCRETE WORK TO BE DONE IN ACCORDANCE WITH THE CODE REFERENCED EDITION OF ACI 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
2. CONCRETE MIX DESIGN REQUIREMENTS AND COMPRESSIVE STRENGTH AT 28 DAYS.

| DESCRIPTION                  | 28 DAY STRENGTH (PSI) | WEIGHT PER CUBIC FOOT (PCF) | SLUMP AT POINT OF PLACEMENT | AGGREGATE | FIBERMESH OR W/M                         |
|------------------------------|-----------------------|-----------------------------|-----------------------------|-----------|--|
| FOOTING AND FOUNDATION WALLS | 3000                  | 145                         | 4" +/- 1"                   | ASTM C33  | NONE                                     |
| SLAB ON GRADE                | 3000                  | 145                         | 4" +/- 1"                   | ASTM C33  | FIBERMESH @ 15LB PER CUBIC YARD OF CONC. |
| EXTERIOR SLAB ON GRADE       | 4500                  | 145                         | 4" +/- 1"                   | ASTM C33  | W/M 6X6 W/4 X W/4                        |

FLY ASH SHALL NOT BE USED. WATER REDUCING ADMIXTURES MAY BE USED TO ACHIEVE SLUMP REQUIREMENTS.

3. SEE ARCHITECTURAL DOCUMENTS FOR JOINT SIZES AND FILLER MATERIALS.
4. LOCATION OF ALL CONSTRUCTION JOINTS, EXCLUDING SLABS ON GRADE, SHALL BE COORDINATED WITH STRUCTURAL ENGINEER.
5. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER SHOWING PROPOSED LOCATIONS OF ANY MATERIAL SUCH AS BUT NOT LIMITED TOO CONDUITS, EMBEDMENTS, OR FIXTURES TO BE PLACED INSIDE ANY STRUCTURAL CONCRETE MEMBER SUCH AS BEAMS, WALLS, SLABS, COLUMNS OR FOOTINGS. THIS IS NOT REQUIRED FOR SLABS ON GRADE OF 4" OR LESS IN THICKNESS.
6. CONCRETE SLAB FLATNESS AND LEVELNESS TOLERANCES SHALL BE IN CONFORMANCE WITH ACI 117, AND SHALL BE SPECIFIED BY THE OWNER, UNLESS SUPERSEDED BY THE OWNER'S CRITERIA, CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS:
- A. PROVIDE A FLOOR SURFACE WHICH IS TRUE AND LEVEL AND ACHIEVES "F NUMBERS" OF FF = 30 AND FL = 20 MINIMUM OVERALL COMPOSITE AND FF = 20 AND FL = 15 MINIMUM AT ANY INDIVIDUAL SECTION. WHEN TESTED IN ACCORDANCE WITH ASTM E1155, REMOVE SURFACE IRREGULARITIES TO PROVIDE A CONTINUOUS SMOOTH FINISH.
- B. ALL INTERIOR SLABS TO RECEIVE A SMOOTH TROWEL FINISH UNLESS NOTED.
7. UNLESS SPECIFIED OTHERWISE IN THE SPECIFICATION, TESTING OF CONCRETE SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF ACI 318 SECTION 5.6 "EVALUATION AND ACCEPTANCE OF CONCRETE".
8. CONSTRUCTION JOINTS (CNJT.) ARE TO BE LOCATED ON THE THRESHOLD SIDE OF A WALL.
9. SEE DETAIL "TYPICAL SLAB ON GRADE JOINT LAYOUT".
10. THE FOLLOWING PROCEDURES SHALL MEET THE REQUIREMENTS OF THE REFERENCED CODE SECTIONS:

| PROCEDURE               | REFERENCE SECTION  |
|-------------------------|--|
| PREPARATION             | ACI 304 - "GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE" |
| CONVEYING               | ACI 318 SECTION 5.9 - "CONVEYING"  |
| DEPOSITING              | ACI 318 SECTION 5.10 - "DEPOSITING"  |
| CONSOLIDATION           | ACI 308 - "GUIDE FOR CONSOLIDATION OF CONCRETE"                            |
| CURING                  | ACI 308 - "STANDARD PRACTICE FOR CURING CONCRETE"                          |
| HOT WEATHER CONCRETING  | ACI 305 - "HOT WEATHER CONCRETING"   |
| COLD WEATHER CONCRETING | ACI 308 "COLD WEATHER CONCRETING"  |

STRUCTURAL MASONRY (SEISMIC DESIGN CATEGORY C)

1. ALL MASONRY WORK TO BE DONE IN ACCORDANCE WITH THE CODE-REFERENCED EDITION OF ACI 530 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", AND ACI 530J "SPECIFICATION FOR MASONRY STRUCTURES."
2. MORTAR SHALL BE PORTLAND CEMENT-LIME AND CONFORM TO ASTM C270.
3. CLAY MASONRY UNITS SHALL HAVE TYPE N MORTAR. NET AREA COMPRESSIVE STRENGTH OF UNITS SHALL BE 6200 PSI. NET AREA COMPRESSIVE STRENGTH OF INSTALLED MASONRY (FM) SHALL BE 2000 PSI. REFER TO ARCHITECTURAL DOCUMENTS FOR ASTM DESIGNATIONS.
4. CONCRETE MASONRY UNITS ABOVE AND BELOW GRADE SHALL HAVE TYPE S MORTAR. NET AREA COMPRESSIVE STRENGTH OF UNITS SHALL BE 1900 PSI. NET AREA COMPRESSIVE STRENGTH OF INSTALLED MASONRY (FM) SHALL BE 1500 PSI. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90.
5. BLOCK FILL FOR REINFORCED MASONRY SHALL BE FINE GROUT IN CONFORMANCE WITH ASTM C476 MINIMUM COMPRESSIVE STRENGTH METHOD. GROUT SHALL BE 2000 PSI AT 28 DAYS. GROUT SLUMP SHALL BE 8 TO 11 INCHES.
6. REINFORCING: ASTM A615 - GRADE 60. SEE TABLE BELOW FOR MINIMUM LAP SPLICE LENGTH AND EMBEDMENT OF REINFORCING BARS.

| MASONRY REINFORCING LAP SPLICES AND EMBED LENGTH |                         |                 |
|--|-------------------------|-----------------|
| BAR SIZE   | LAP SPLICE LENGTH (IN.) | EMBEDMENT (IN.) |
| #4   | 24                      | 18              |
| #5   | 30                      | 24              |
| #6   | 36                      | 28              |
| #7   | 42                      | 32              |
| #8   | 48                      | 36              |
| #9   | 54                      | 42              |

7. MASONRY PREPARATION, CONSTRUCTION AND PROTECTION IN HOT OR COLD WEATHER (GREATER THAN 50 DEGREES FAHRENHEIT OR LESS THAN 40 DEGREES FAHRENHEIT) SHALL BE IN CONFORMANCE WITH ACI 530J SECTION 1B.
8. EMBEDDED CONDUITS, PIPES AND SLEEVES SHALL BE COMPATIBLE WITH MASONRY AND SHALL NOT BE LOCATED IN GROUTED CELLS. PIPES CONTAINING WATER SUBJECT TO FREEZING, MATERIALS IN EXCESS OF 150 DEGREE FAHRENHEIT OR PIPES UNDER PRESSURE IN EXCESS OF 55 PSI SHALL NOT BE EMBEDDED IN MASONRY. GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL EMBEDDED ITEMS WITH THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
9. ALL NON-LOAD BEARING, NON-SHEAR WALLS SHALL BE Laterally BRaced AT OR NEAR THE TOP OF THE WALL AT A SPACING NOT TO EXCEED 8'-0" ON CENTER ALONG THE LENGTH OF THE WALL. THE METHOD OF BRACING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. A WALL MAY BE CONSIDERED BRACED WHERE THE WALLS JOINS ANOTHER NON-LOAD BEARING, NON-SHEAR WALL AT CORNERS AND "TS."
10. ALL NON-LOAD BEARING, NON-SHEAR WALLS SHALL NOT EXCEED THE UNBRACED HEIGHT AS SHOWN IN THE TABLE BELOW. THAT IS, IF THE WALLS ARE TALLER THAN THE LIMITING HEIGHT, THEY SHALL BE BRACED EVERY 8'-0" ON CENTER ALONG THE LENGTH OF THE WALL AT OR BELOW THE LIMITING HEIGHT.

| CMU LIMITING UNBRACED HEIGHT (FT) |
|-----------------------------------|
| 6" CMU 18' - 0"                   |
| 8" CMU 24' - 0"                   |
| 12" CMU 36' - 0"                  |

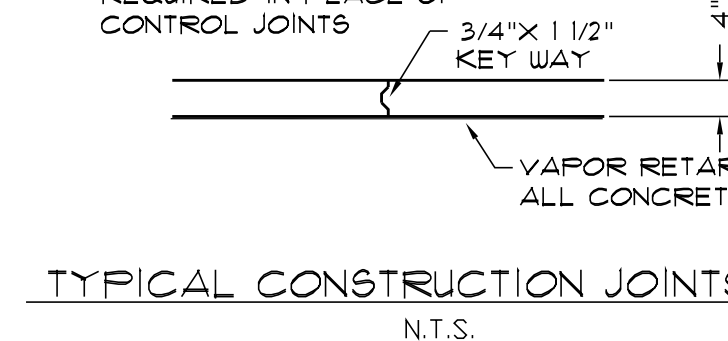
THE ALTERNATIVE TO BRACING AS DESCRIBED ABOVE IS TO REINFORCE THE WALL AND BRACE AT OR NEAR THE TOP OF THE WALL AT A SPACING NOT TO EXCEED 8'-0" ON CENTER ALONG THE LENGTH OF THE WALL. IF THE ALTERNATIVE IS CHOSEN, THE SIZE AND SPACING OF REINFORCING WILL BE DETERMINED BY THE STRUCTURAL ENGINEER ON A CASE BY CASE BASIS.

11. ALL MASONRY WALLS SHALL BE REINFORCED WITH HORIZONTAL JOINT REINFORCEMENT @ 16" O.C. VERTICALLY AS FOLLOWS. THE SPACE BETWEEN THESE WIRES SHALL BE THE WIDEST THAT THE MORTAR JOINT WILL ACCOMMODATE.

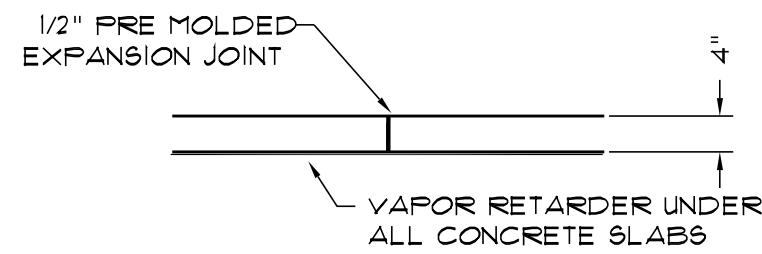
| CMU SIZE | HORIZONTAL JOINT REINFORCING |                    |
|----------|------------------------------|--------------------|
|          | RUNNING BOND                 | STACK BOND         |
| 4"       | (1) W/1 @ 16" O.C.           | (1) W/1 @ 16" O.C. |
| 6" OR 8" | (2) W/1 @ 16" O.C.           | (2) W/1 @ 16" O.C. |
| 12"      | (2) W/1 @ 16" O.C.           | (2) W/2 @ 16" O.C. |

12. VERTICAL REBAR SHALL BE CENTERED IN BLOCK WALLS UNO.
13. MASONRY CELLS ON WHICH STEEL OR MASONRY LINTELS BEAR MUST BE REINFORCED WITH SAME REINFORCING AS WALL AND MUST BE FILLED WITH GROUT. IF NO WALL REINFORCING IS SHOWN A #4 BAR SHALL BE ASSUMED.
14. PROVIDE HORIZONTAL BOND BEAMS IN ALL MASONRY WALLS AT 10'-0" ON CENTER MAX. VERTICALLY AND WITHIN 16" OF THE TOP OF THE WALL. REINFORCING IN BOND BEAMS SHALL BE #4 X CONTINUOUS FOR 6" CMU, #5 X CONTINUOUS FOR 8" CMU, AND #6 X CONTINUOUS FOR 12" CMU.
15. THE MINIMUM LEVEL OF QUALITY ASSURANCE BASED ON ACI 530-11 SHALL BE LEVEL C. REFER TO TABLE 115.3 IN ACI 530-11.
16. WHERE CONCRETE BLOCK IS ABOVE AND BELOW EQUIPMENT PLATFORM, FIT BLOCK TIGHT TO UNDERSIDE OF BEAM PRIOR TO CONSTRUCTING BLOCK ABOVE.
17. MASONRY CELLS SHALL BE GROUTED ROUTINELY TO MINIMIZE GROUT FALL HEIGHT TO A MAXIMUM OF 4'-0".

NOTE: CONTRACTOR TO SPACE AS REQUIRED IN PLACE OF CONTROL JOINTS

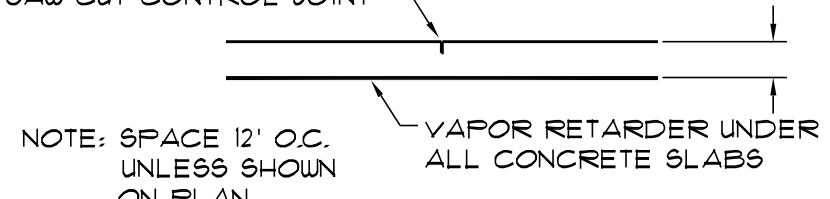


TYPICAL CONSTRUCTION JOINTS (CNJT.) N.T.S.



TYPICAL ISOLATION JOINT (I.J.T.) N.T.S.

1/8"X1 1/2" DEEP SAW CUT CONTROL JOINT



TYPICAL CONTROL JOINT (C.J.) N.T.S.

SAW CUTTING CONTROL JOINTS IS AN ATTEMPT TO PARTIALLY CONTROL THE SHRINKAGE CRACKS THAT NATURALLY OCCURS IN CONCRETE DURING THE CURING PROCESS. SOMETIMES THE CONCRETE WILL CRACK BETWEEN CONTROL JOINTS.



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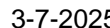
GENERAL NOTES

Project #: 2229 Date: 4/18/2025

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Project No: 24-311

3. REINFORCING STEEL SHALL BE NEW BILLET STEEL, DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, AND SHALL BE FREE FROM ANY FORM RELEASE AGENTS.
2. REINFORCING BENDS SHALL CONFORM TO CRSI.
3. WELDED WIRE FABRIC SHALL BE SHEETS OF NEW BILLET STEEL COLD DRAWN, CONFORMING TO ASTM SPECIFICATION A185, GRADE 60.
4. REINFORCING IS TO BE SUPPORTED AND SPACED WITH WIRE BAR SUPPORTS ACCORDING TO CRSI "PLACING REINFORCING BARS" UNLESS NOTED OTHERWISE.
5. BAR SUPPORTS, DESIGN, DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318 AND "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES"; ACI 315.
6. SPLICES FOR CONTINUOUS BARS SHALL BE CLASS B, UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL BE LAPPED 12" MINIMUM.
7. PROVIDE BENT HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF ALL WALLS AND FOOTINGS. BENT BARS ARE TO MATCH THE SIZE AND SPACING OF HORIZONTAL BARS IN WALL OR FOOTING. USE CLASS B SPLICE EACH SIDE.
8. PROVIDE DIAGONAL BARS AT CORNERS OF OPENINGS IN SLABS AND CONCRETE WALLS. SEE DETAILS "RECTANGULAR OPENING IN SLAB" AND "CIRCLE OPENING WALL SLAB". PROVIDE 2" CLEAR COVER BETWEEN THE OPENING AND THE CORNER REINFORCING BARS.
9. WALL FOOTING REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMN FOOTING.
10. EXTEND ALL FOOTING REINFORCEMENT TO FAR SIDE OF FOOTING. SEE NOTE BELOW FOR CONCRETE COVERAGE.
11. PROVIDE DOWELS IN WALL FOOTING TO MATCH WALL VERTICALS UNLESS NOTED OTHERWISE OR DRAWINGS. PROVIDE CLASS B SPLICE, USE STANDARD ACI 90 DEGREE HOOK WITH 3" CLEAR TO BOTTOM OF FOOTING UNLESS NOTED OTHERWISE. SEE DETAIL "CORNER BAR & SPLICE LENGTH DETAIL (IN CONCRETE)".

12. MINIMUM CONCRETE COVERAGE SHALL BE AS FOLLOWS: IF CONSTRUCTION DOCUMENTS INDICATE A LARGER COVERAGE, IT SHALL BE USED; IF STIRRUPS, TIES, OR SPIRALS ARE USED, COVERAGE SHALL BE TO THE OUTERMOST FACE OF THESE ELEMENTS.

- A. FOOTINGS, CAISSONS, AND OTHER MEMBERS WHERE CONCRETE IS DEPOSITED AGAINST SOIL (EXCEPT SLABS ON GRADE) = 3"
- B. CONCRETE EXPOSED TO WEATHER OR SOIL BUT IS NOT DEPOSITED AGAINST SOIL:
  - "6 BAR AND LARGER = 2"
  - "5 BAR AND SMALLER = 1 1/2"
- C. CONCRETE NOT EXPOSED TO WEATHER OR SOIL:
  - SLABS, WALLS, JOISTS "4 BAR AND LARGER = 1 1/2"
  - SLABS, WALLS, JOISTS "3 BAR AND SMALLER = 3/4"
  - BEAMS AND COLUMNS = 1 1/2"

1. MATERIAL, DESIGN, FABRICATION, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STEEL DECK INSTITUTE. (SDI)
2. STEEL DECK SHALL BE CUT TO LENGTHS TO PROVIDE A MINIMUM OF THREE SPAN CONDITION. STEEL DECK SUBMITTAL DRAWINGS SHALL CLEARLY INDICATE BY CLOUDING ONE OR TWO SPAN CONDITIONS.
3. STEEL DECK SHALL BE FASTENED THROUGH THE DECK ONTO THE SUPPORTING MEMBERS AND AT SIDELAPS PER THE DRAWINGS, USE WELDING WASHERS AS REQUIRED TO PREVENT BURN-THROUGH OF STEEL DECK.
4. ALL STEEL ROOF DECK NOT EXPOSED TO WEATHER SHALL BE PRIME PAINTED. ALL STEEL DECK TO RECEIVE CONCRETE TOPPING SHALL BE G60 GALVANIZED IN CONFORMANCE WITH ASTM A653. ALL DECK EXPOSED TO WEATHER SHALL BE G30 GALVANIZED IN CONFORMANCE WITH ASTM A653.
5. STEEL DECK MANUFACTURER SHALL PROVIDE ALL REQUIRED ACCESSORIES.
6. FASTEN ROOF DECK TO STEEL SUPPORTING MEMBERS AT EDGE AND INTERIOR RIBS WITH A SUFFICIENT NUMBER OF 5/8" DIAMETER PUDDLE WELDS FOR 3/4" PATTERN AT EDGES PROVIDE 5/8" DIAMETER PUDDLE WELD IN EVERY FLUTE. USE 3 "10" TAC SCREWS PER SIDELAP SPAN IN THE FIELD AND AT PLACES WHERE DECK IS CANTILEVERED.

1. MATERIAL, DESIGN, FABRICATION, AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STEEL DECK INSTITUTE (SDI)
2. TOP AND BOTTOM CHORD BRIDGING SHALL BE SIZED AND SPACED BY THE JOIST MANUFACTURER IN ACCORDANCE WITH SJI SPECIFICATIONS. GENERAL CONTRACTOR COORDINATE MISCELLANEOUS STEEL FOR TERMINATION AND CONNECTION OF BRIDGING AS REQUIRED BY SJI.
3. CONNECT JOISTS AND JOIST GIRDERS TO SUPPORTS PER SJI REQUIREMENTS.
4. DESIGN JOISTS, JOIST GIRDERS, CONNECTIONS AND BRIDGING FOR UPLIFT AS FOLLOWS: A (WIDTH OF ZONE 2 = 3' 4" @ 102 ST.)

5. THE DRAWINGS INDICATE LOADS CONSIDERED FOR DESIGN OF JOISTS AND JOIST GIRDERS, ANY CONCENTRATED LOAD IN EXCESS OF 50 POUNDS NOT SHOWN ON THE DRAWINGS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER.
6. JOIST TOP CHORD EXTENSIONS SHALL BE DESIGNED BY THE JOIST MANUFACTURER TO SUPPORT A TOTAL DOWNWARD SERVICE LOAD OF 200 POUNDS PER FOOT AND LIMITED TO A MAXIMUM TOTAL LOAD DEFLECTION OF  $L/240$ .

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CODE-REFERENCED AISC MANUAL OF STEEL CONSTRUCTION, SPECIFICATION FOR STEEL BUILDINGS, AND CODE OF STANDARD PRACTICE.
2. STEEL FABRICATOR SHALL BE CURRENTLY CERTIFIED BY THE AISC QUALITY CERTIFICATION PROGRAM FOR STRUCTURAL STEEL FABRICATIONS AND DESIGNATED AS "AISC CERTIFIED STEEL FABRICATOR". THE STEEL FABRICATOR SHALL SUBMIT IN WRITING TO THE STRUCTURAL ENGINEER, AT THE TIME OF PROOF OF CERTIFICATION FOR THE STEEL FABRICATOR(S) SUPPLYING STRUCTURAL STEEL.
3. MATERIALS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:
  - A. W-SHAPES = A57M 922
  - B. HOLLOW STRUCTURAL SHAPES = A57M A500, GRADE B
  - C. PLATES, BARS, ANGLES, C-SHAPES, MC-SHAPES = A57M A36
  - D. PIPES = A57M A53, GRADE B
  - E. WELDING ELECTRODES = E70XX
4. ALL ANCHOR BOLTS SHALL BE SIZE AND STRENGTH SPECIFIED ON THESE DRAWINGS.
5. ALL BEAM END CONNECTIONS SHALL BE AISC DOUBLE ANGLE BOLTED-WELDED CONNECTIONS WITH 3/4" DIA. A325N BOLTS UNO. THE WELD SHALL BE 1/4" WELD FULL LENGTH OF ANGLE PLUS 1" TOP AND BOTTOM. DESIGN SHEAR SHALL BE THE GREATER OF:
  - A. THE SHEAR REACTION SHOWN ON DRAWINGS (IF ANY).
  - B. 50% OF THE VALUE FROM THE "MAXIMUM TOTAL UNIFORM LOAD IN KIPS" TABLES OF THE AISC 13TH EDITION (BLACK BOOK) OR,
  - C. THE MINIMUM NUMBER OF BOLTS IN SINGLE SHEAR AS FOLLOWS:

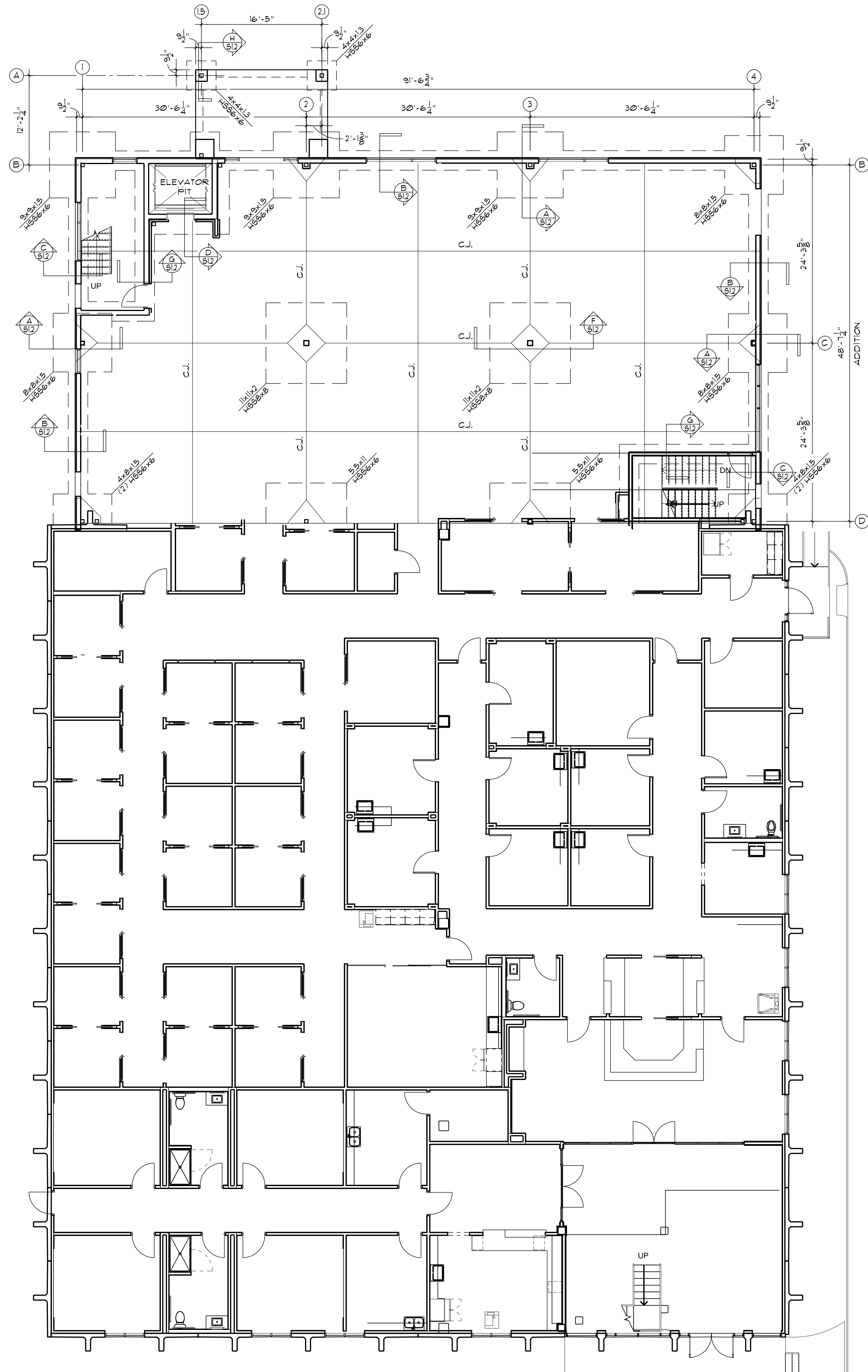
WHERE CONNECTIONS ARE SKEWED OR THE DOUBLE ANGLE CONNECTIONS ABOVE  
WILL NOT FIT, THE FOLLOWING CONNECTIONS SHALL BE USED:

\*WHEN THE SHEAR TAB CONNECTION ABOVE DOES NOT FIT IN THE BEAM WEB, USE THE ADJACENT SMALLER CONNECTION AND CLOUD ON SHOP DRAWINGS.

\*WELD PLATE TO SUPPORTING MEMBER WITH 5/16" WELD ALL AROUND.  
SHEAR TAB TO BE 1/2" THICK X 4" WIDE.

3. ALL BOLTED CONNECTION SHALL BE FULLY PRESTENSIONED ACCORDING TO THE REQUIREMENTS OF "AISC MANUAL OF STEEL CONSTRUCTION" UTILIZING DIRECT TENSION INDICATORS OR AN APPROVED INSTALLATION METHOD IN WRITING FROM THE ENGINEER OF RECORD.
7. WELDS SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY THE STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY FOR THE TYPE OF WELD REQUIRED. WELDER CERTIFICATION SHALL BE SUBMITTED FOR REVIEW.
8. WELD LENGTHS NOT NOTED SHALL BE FULL LENGTH. TERMINATE WELDS IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION AND AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE - STEEL (D11).
9. HOLES LARGER THAN 1" DIA. SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER. HOLES SHALL BE FUNCHED OR DRILLED, EXCEPT AS OTHERWISE PERMITTED THE STRUCTURAL ENGINEER.
10. PROTECT COLUMNS, BASE PLATES, ANCHOR BOLTS, AND ANY STEEL BELOW GRADE WITH AN APPROVED INORGANIC OR EPOXY ANTI-CORROSION COATING, FIELD APPLIED PER MANUFACTURER'S INSTRUCTIONS.
11. ALL EXPOSED STRUCTURAL STEEL, INCLUDING LENTS, AND AS NOTED ON DRAWINGS, SHALL BE GALVANIZED IN CONFORMANCE WITH ASTM A153. FASTENERS AND SMALL PARTS REQUIRING GALVANIZING SHALL BE IN CONFORMANCE WITH ASTM A153.
12. THE CONTRACTORS SHALL DETERMINE, FURNISH AND INSTALL ALL TEMPORARY SUPPORTS SUFFICIENT TO SECURE THE STRUCTURAL STEEL FRAMING AGAINST LOADS PRESENT DURING CONSTRUCTION. TEMPORARY SUPPORTS SHALL REMAIN IN PLACE UNTIL ALL CONNECTIONS TO THE LATERAL LOAD RESISTING SYSTEM, INCLUDING HORIZONTAL DIAPHRAGMS, ARE COMPLETE.
13. THE GENERAL CONTRACTOR SHALL VERIFY THAT THE CORRECT BEAM AND GIRDER CAMBER IS PRESENT AFTER ERECTION AND BEFORE FLOOR SLAB IS POURED.
14. SPLICE CONTINUOUS STEEL ANGLES AND PLATES WITH PARTIAL JOINT-PENETRATION SQUARE GROOVE WELDS (JOINT DESIGNATION B-PL1) U.N.O.
15. STRUCTURAL STEEL FABRICATOR AND DETAILER SHALL SEE THE ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL STEEL NOT SHOWN OR CALLED OUT IN THESE DRAWINGS. IF SIZE IS NOT SHOWN IN ARCHITECTURAL DRAWINGS A REQUEST OR INFORMATION SHALL BE SENT TO THE STRUCTURAL ENGINEER THROUGH THE PROPER CHANNELS.
16. GENERAL CONTRACTOR SHALL COORDINATE CONNECTIONS OF JOIST AND JOIST GIRDERS TO STRUCTURAL STEEL.





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



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Sheet Title:  
FOUNDATION PLAN

Project #: 2229    Date: 4/18/2025



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Project No:24-311

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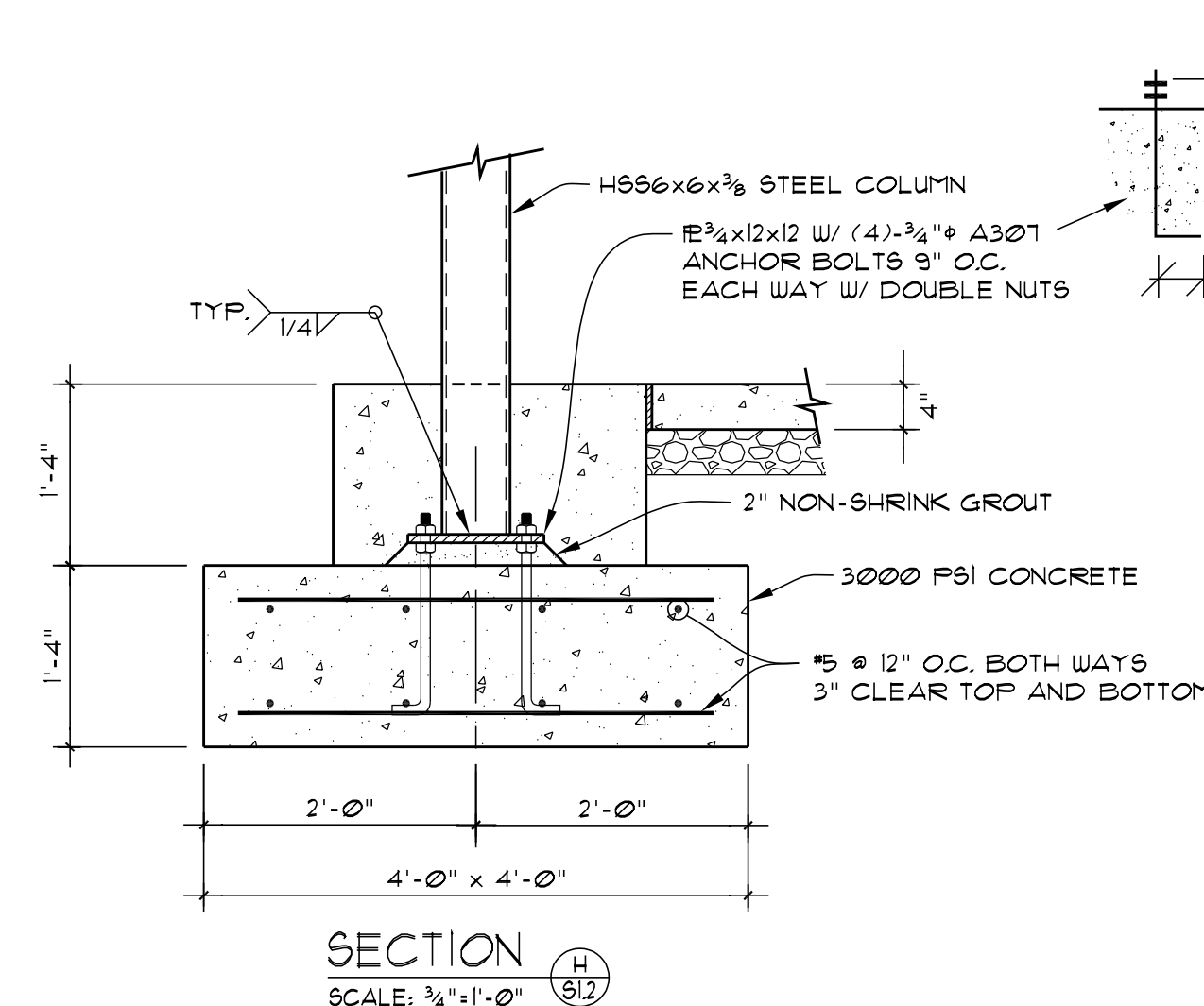
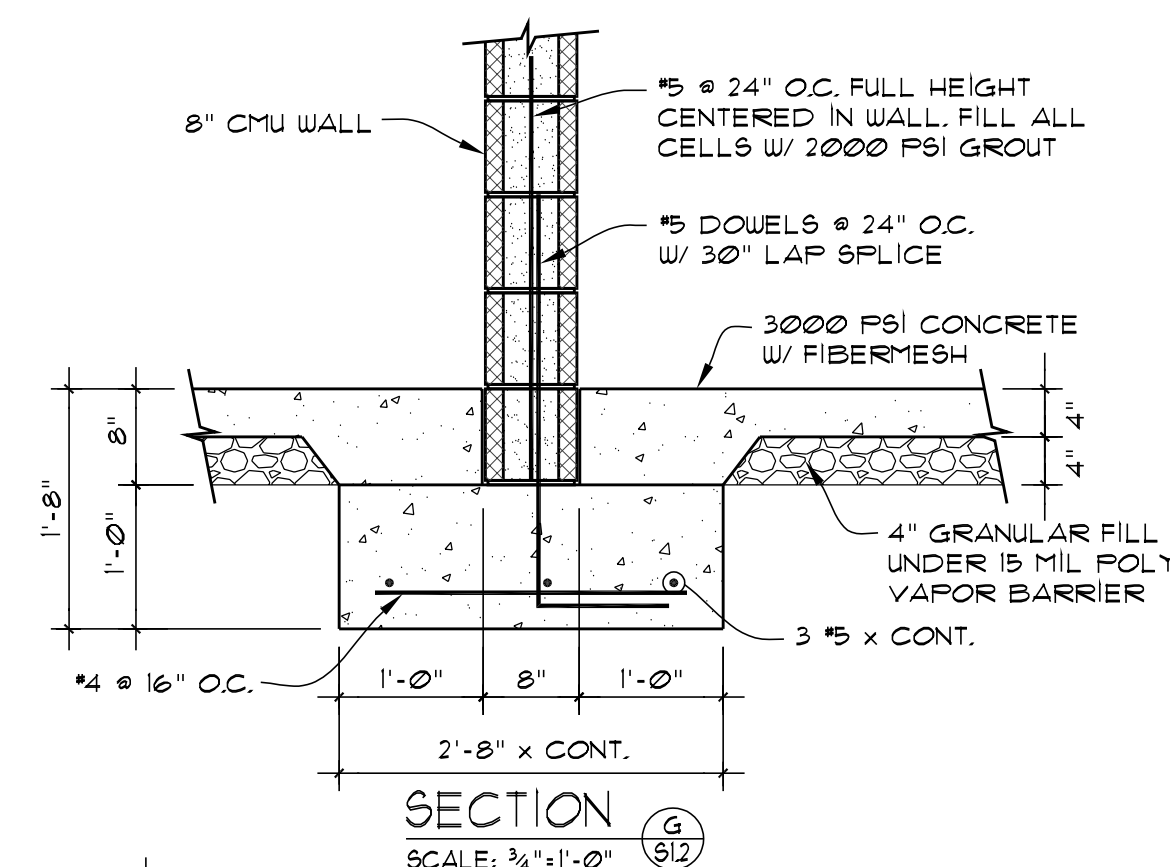
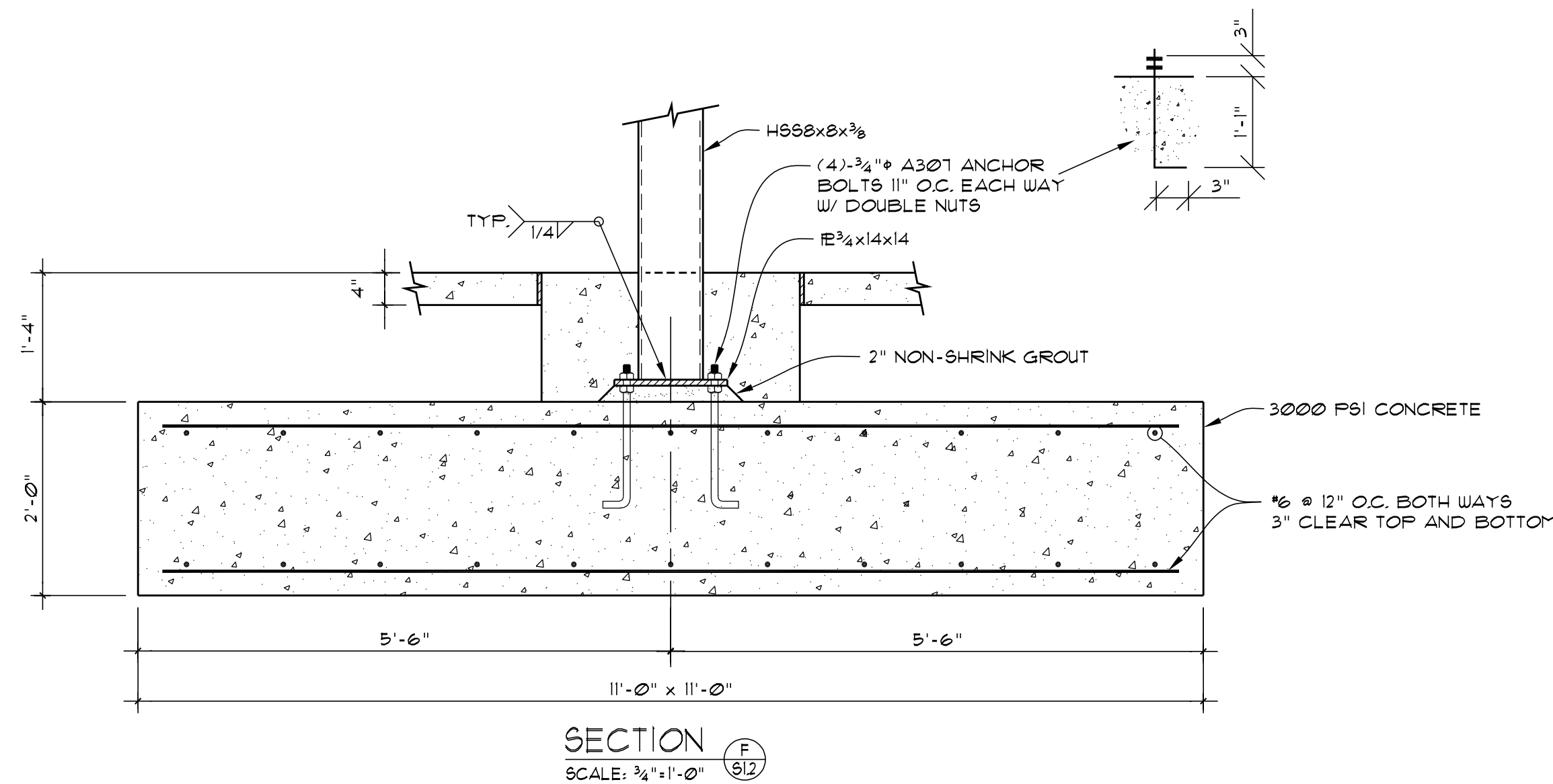
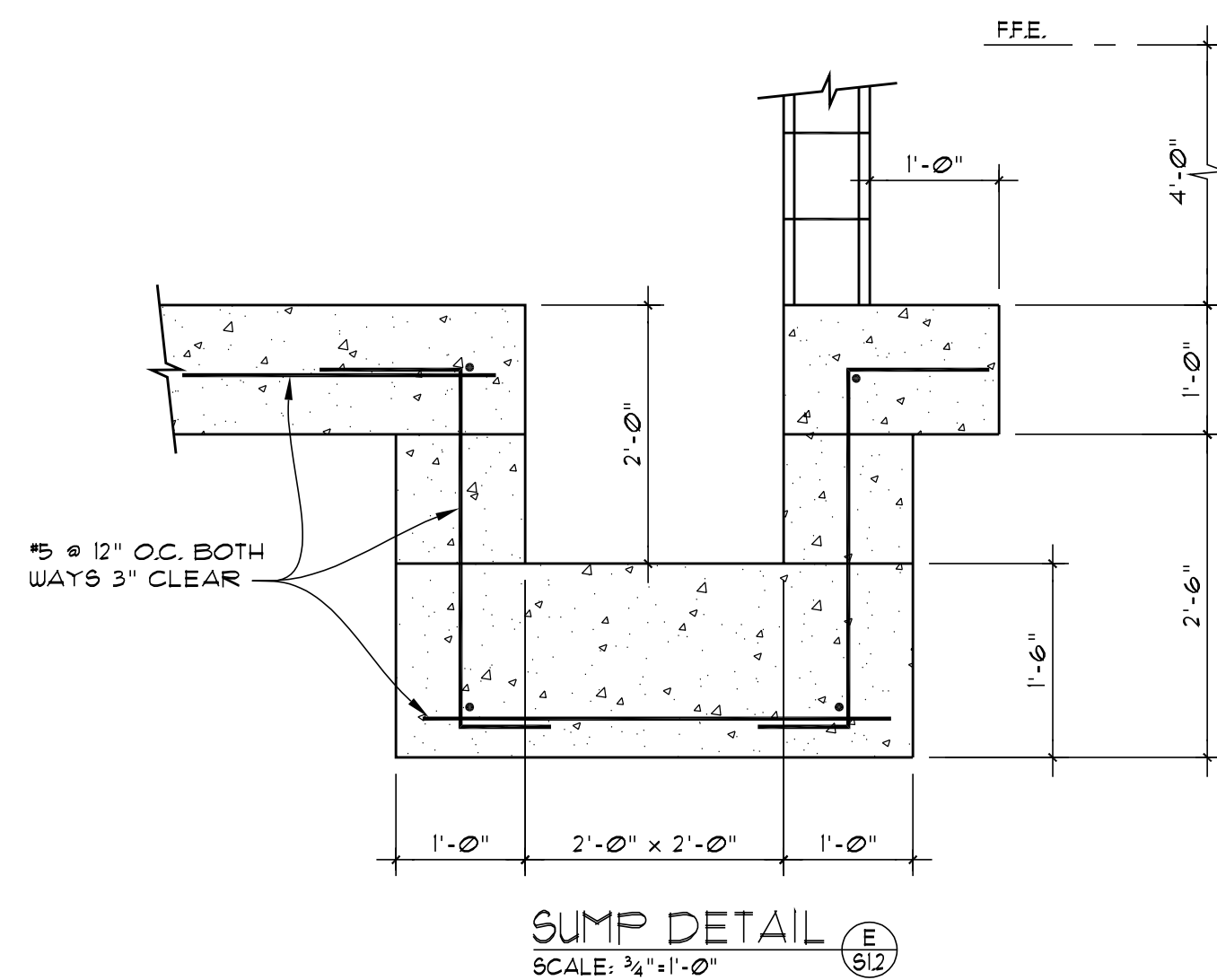
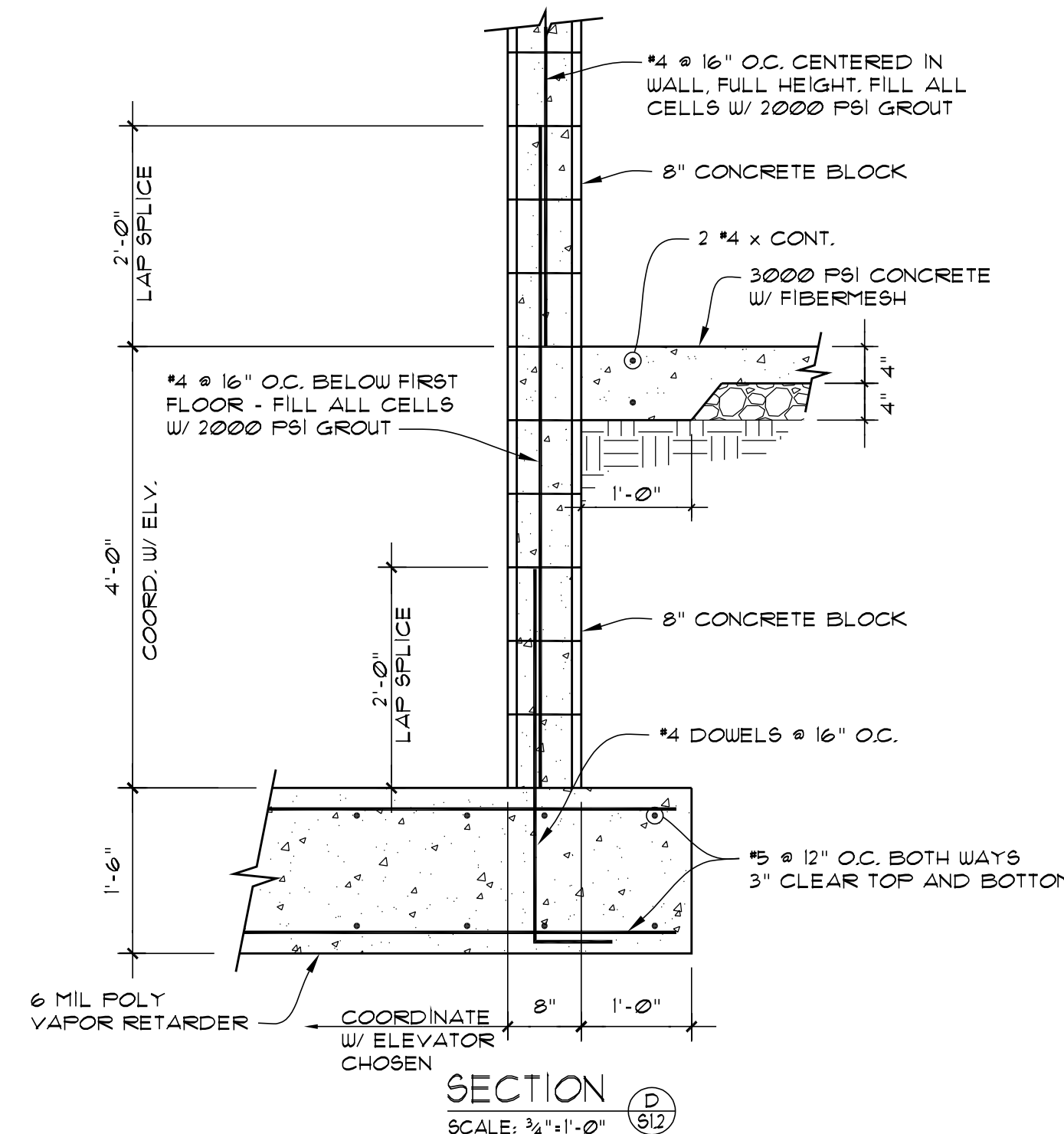
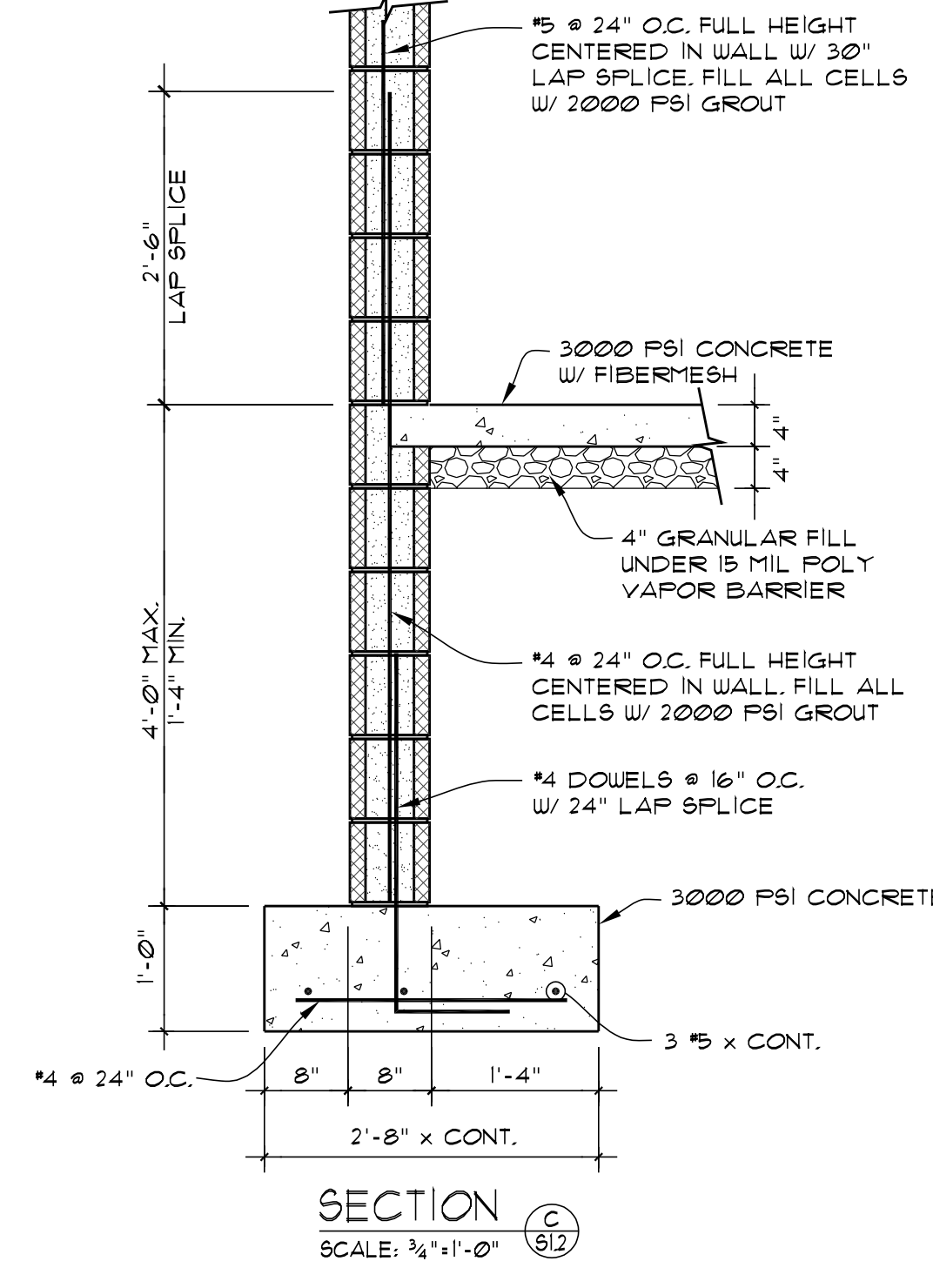
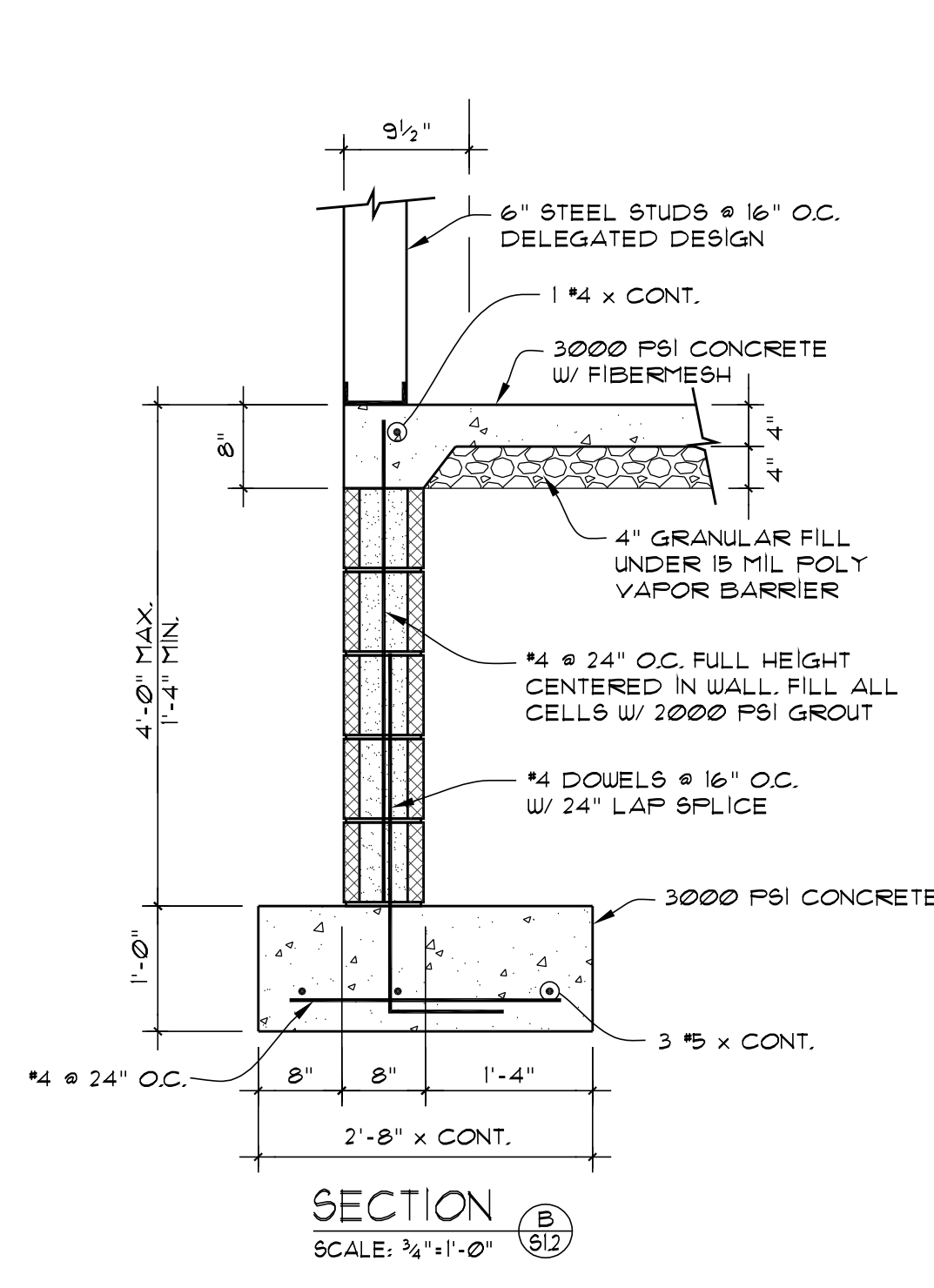
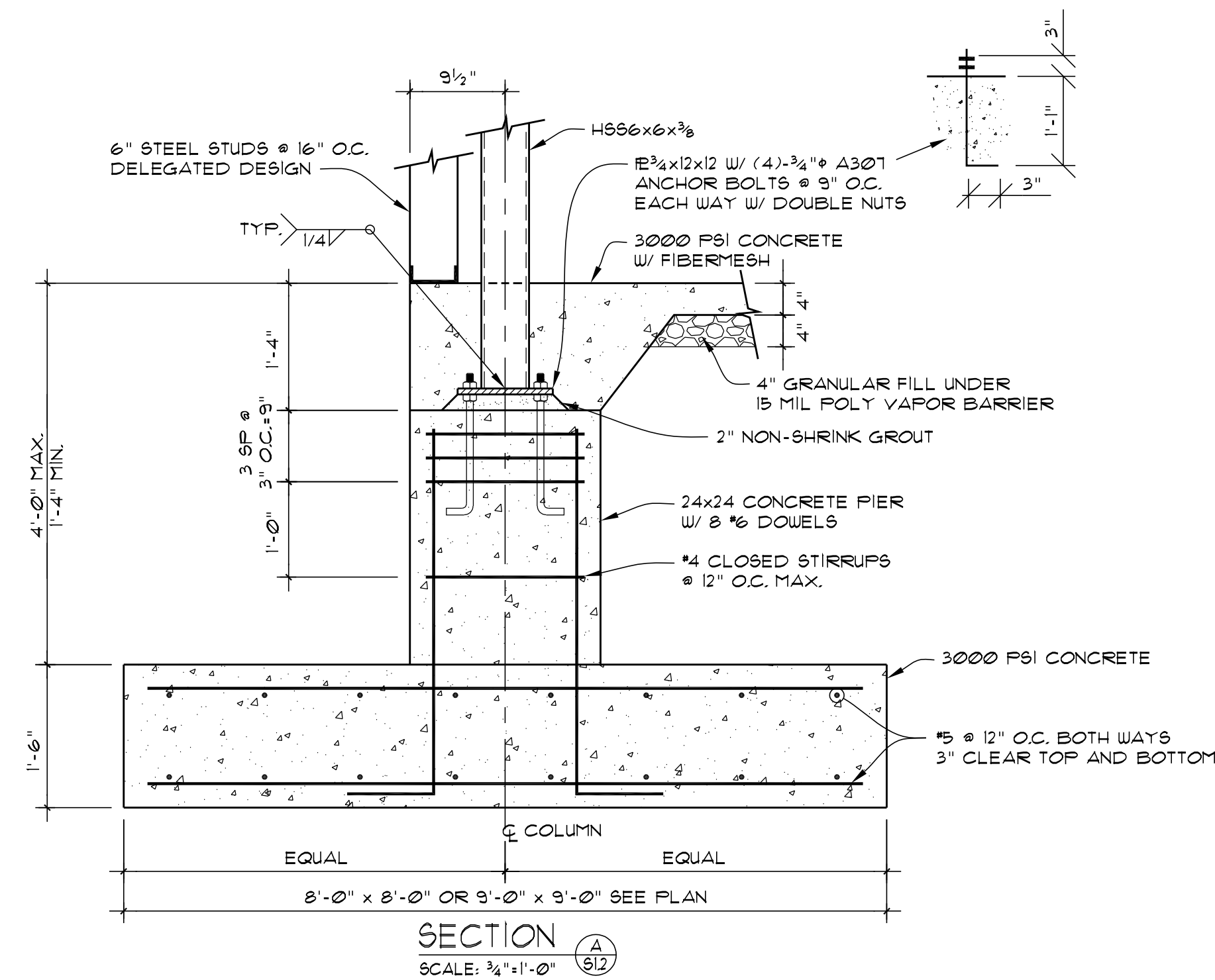
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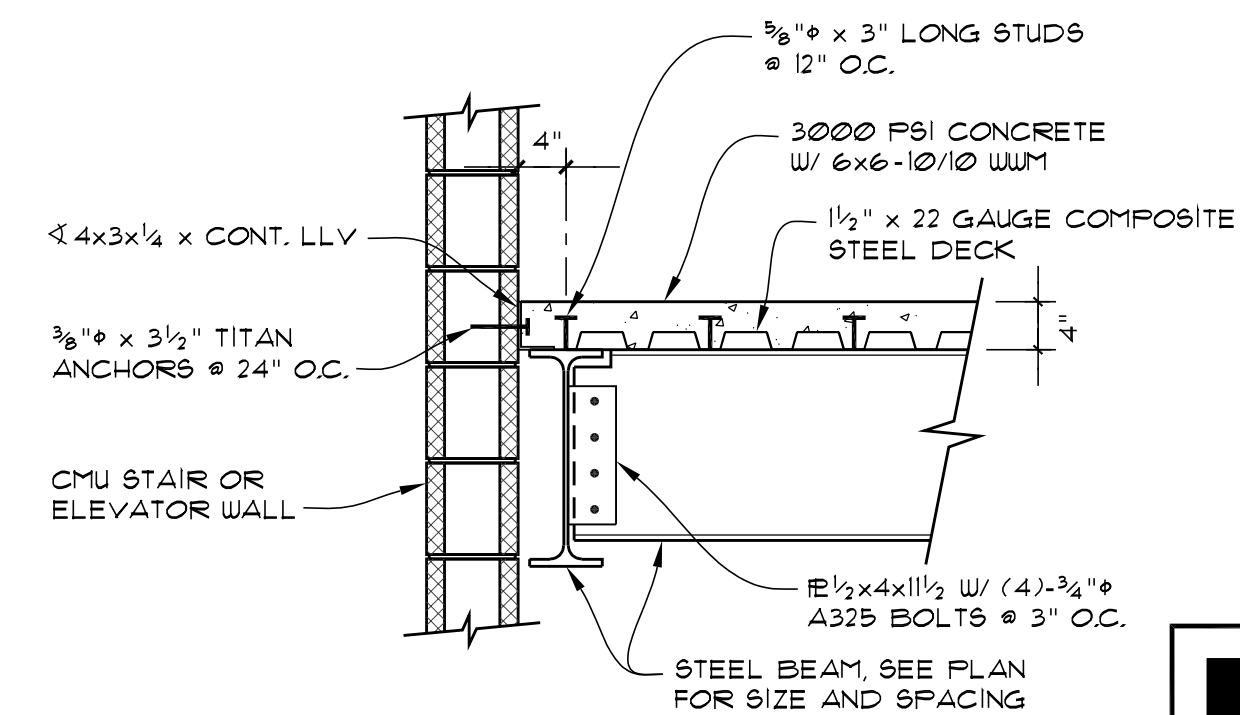
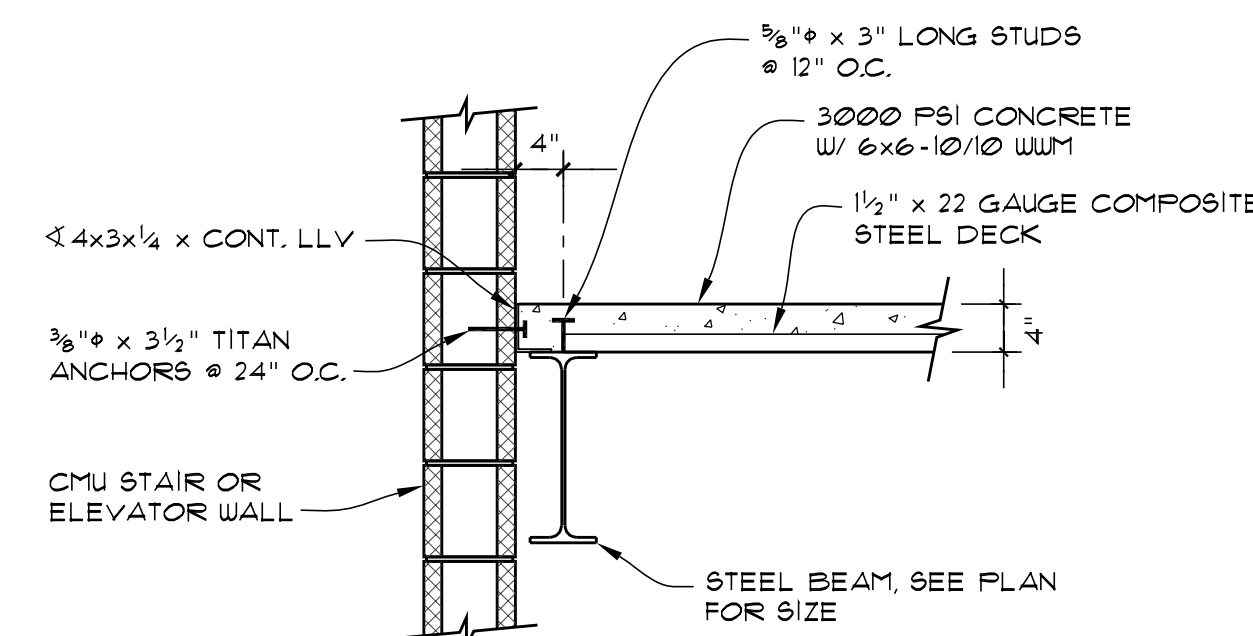
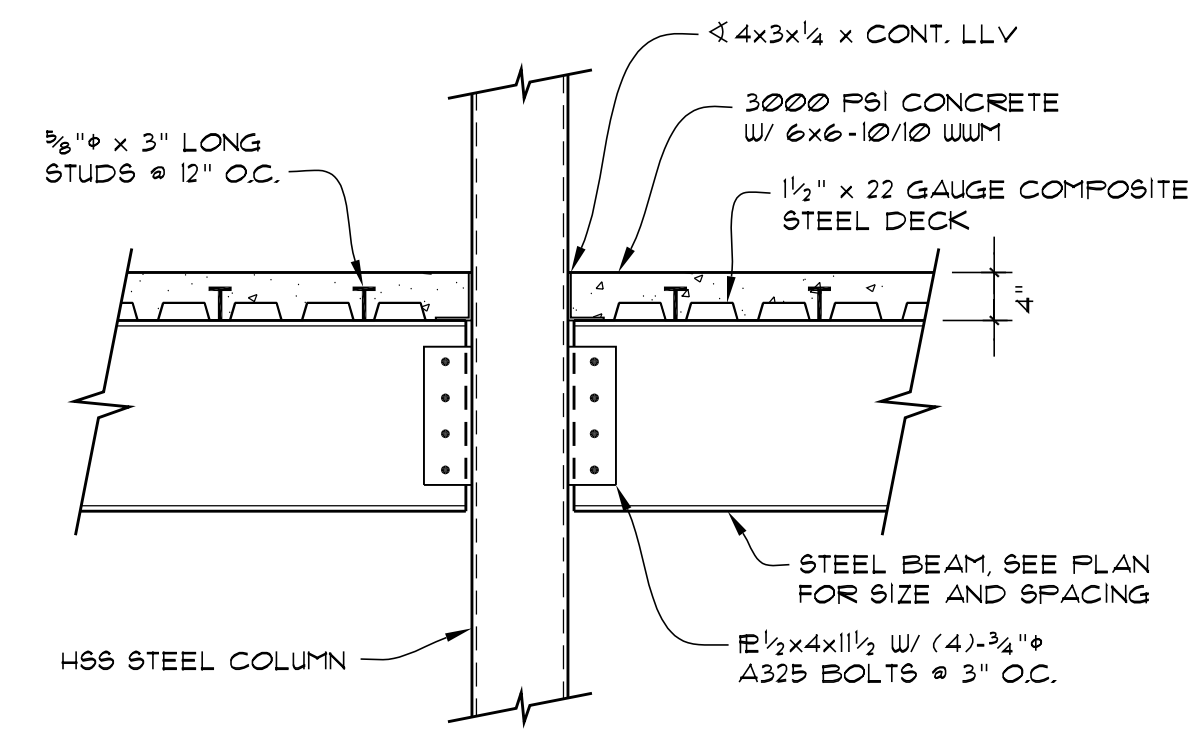
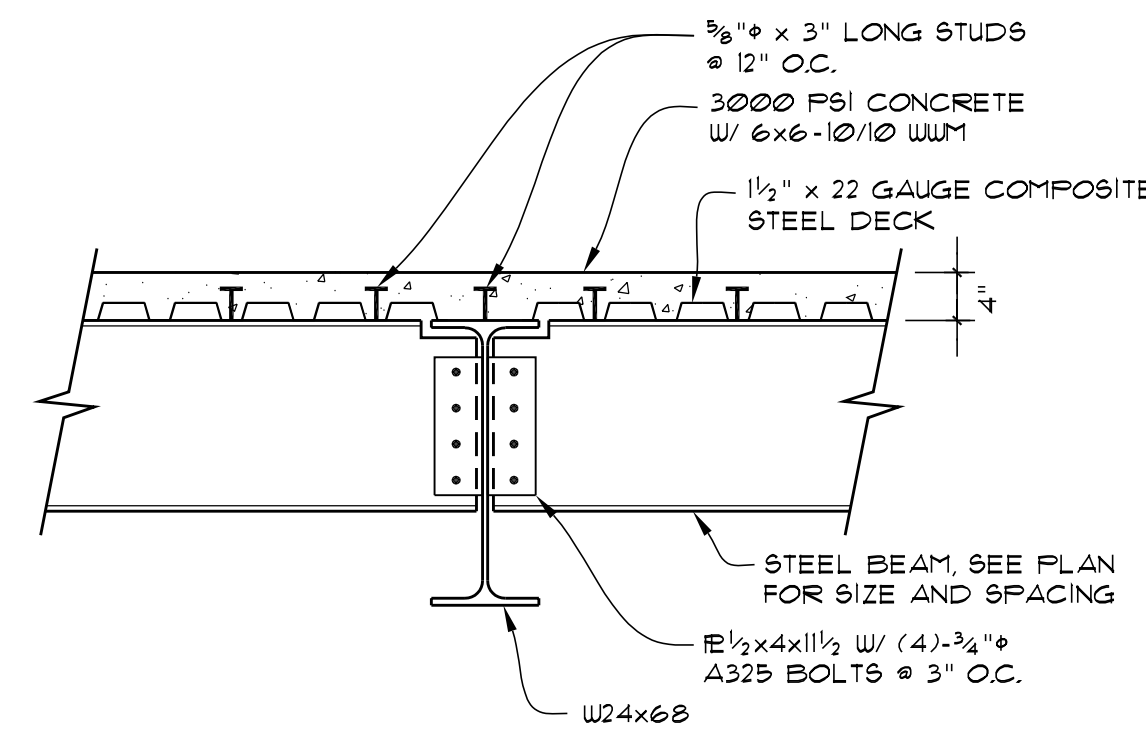
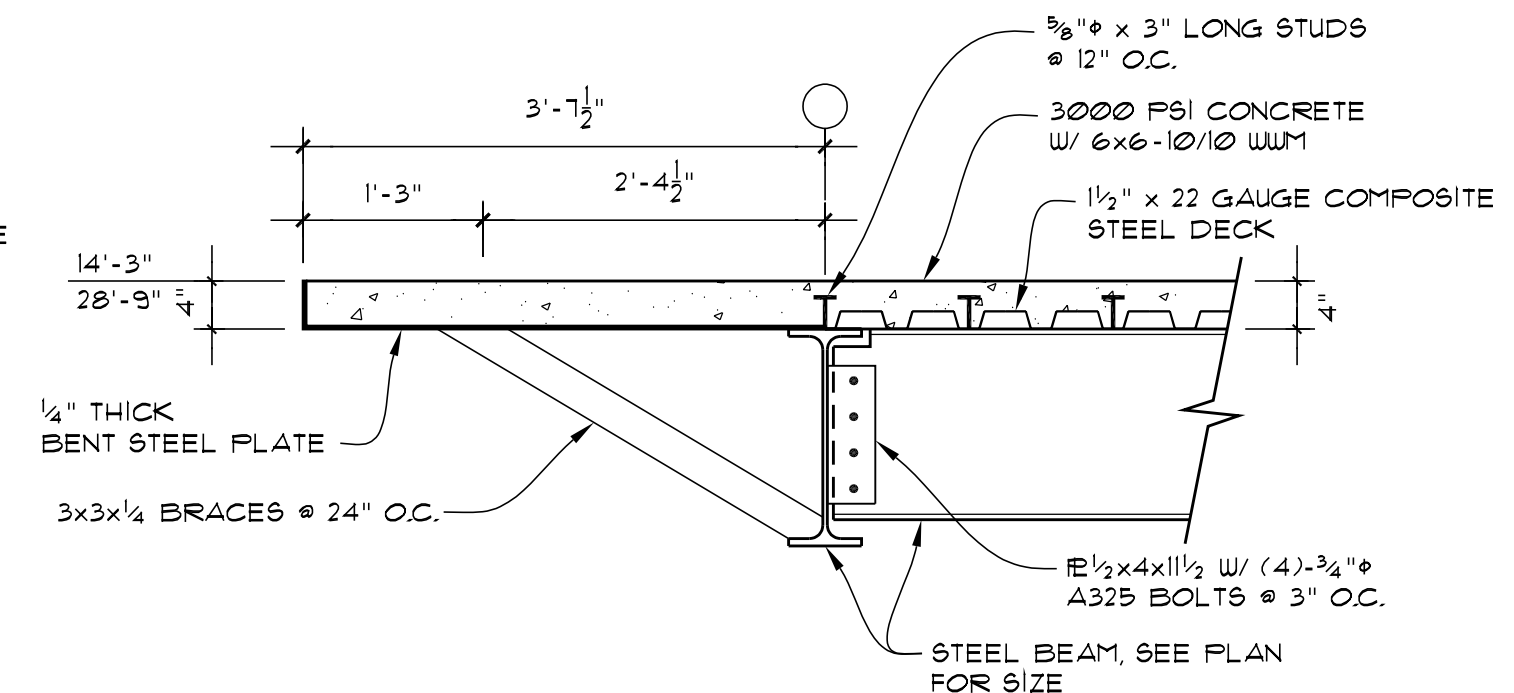
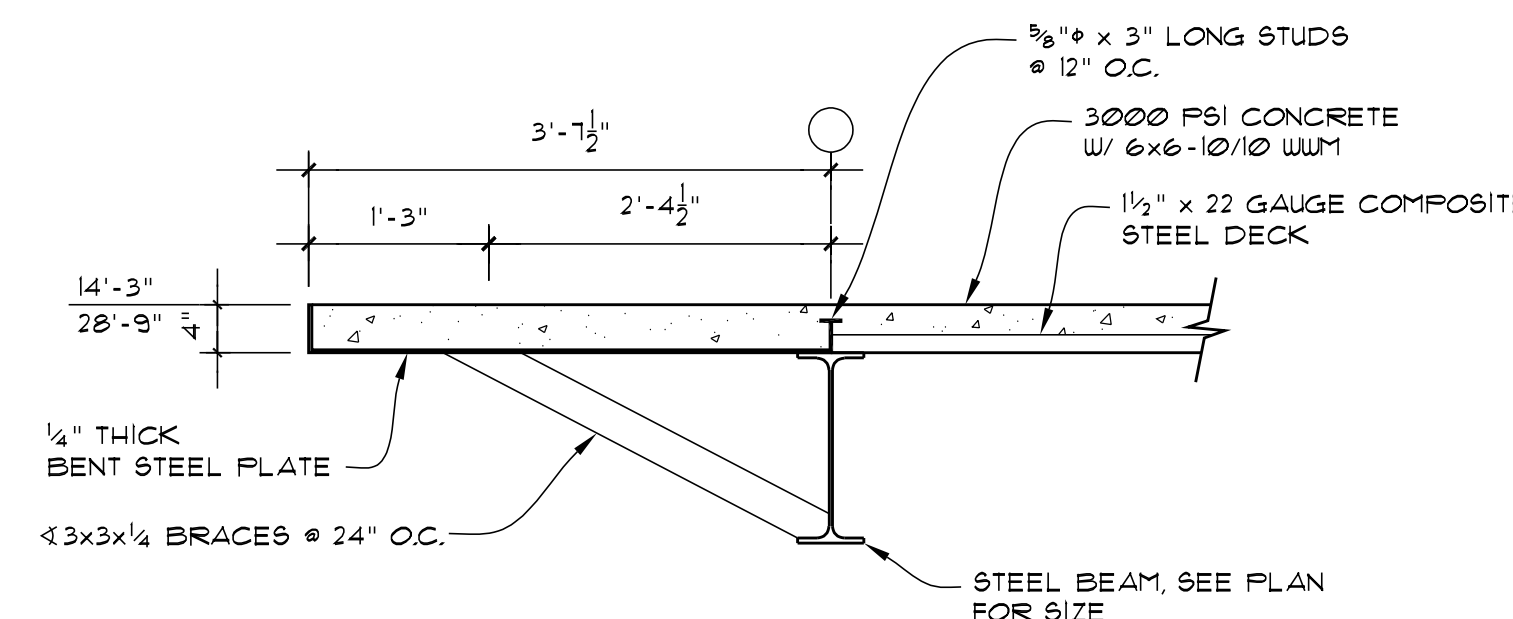
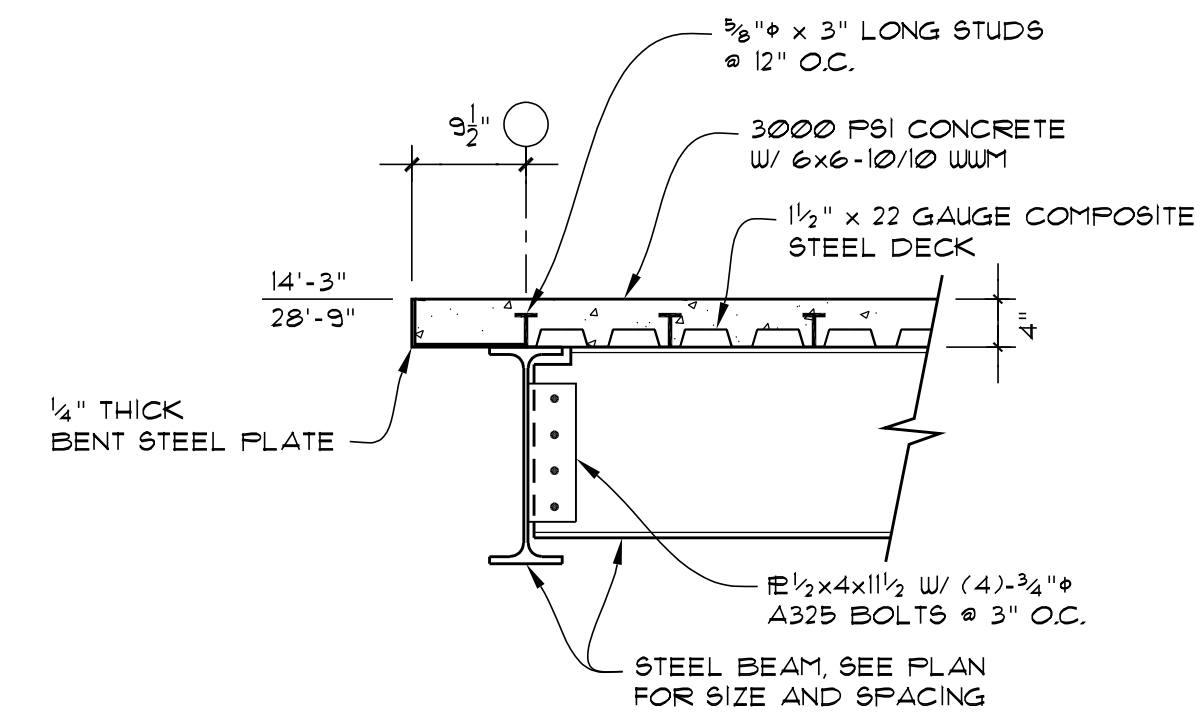
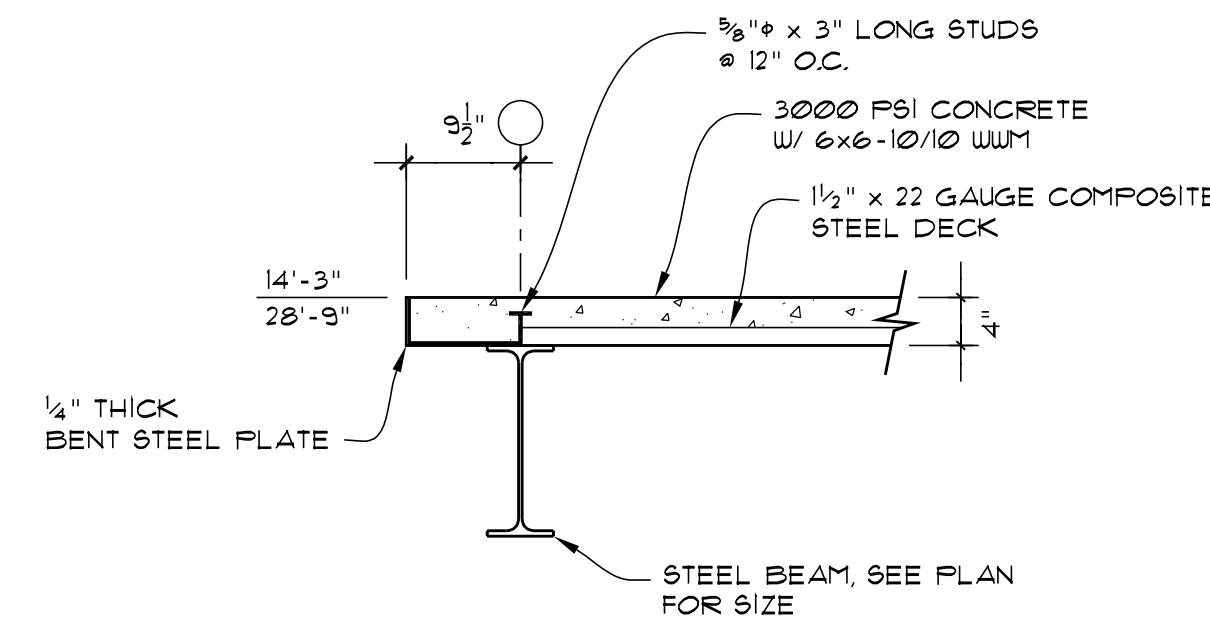
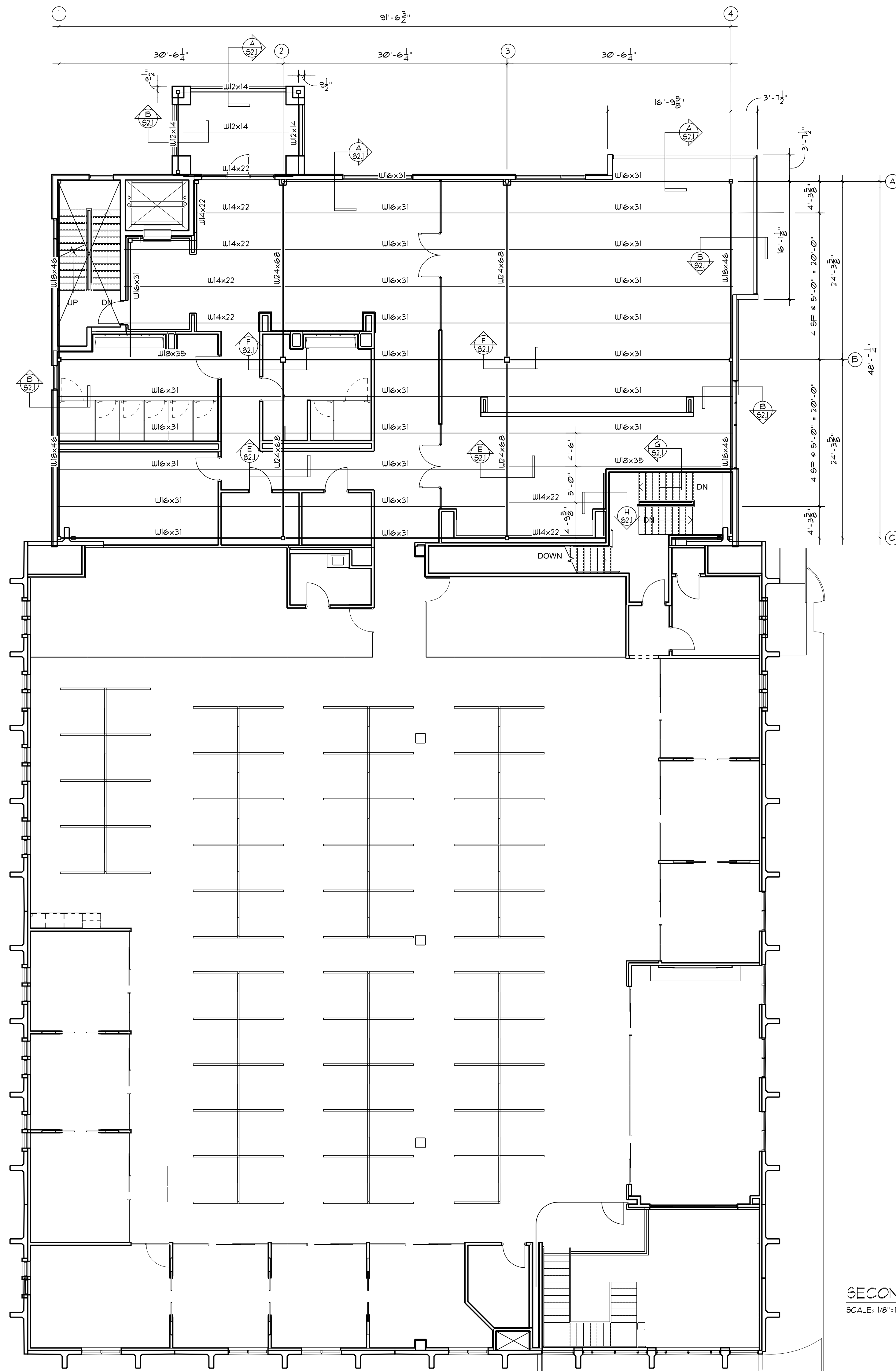
Project #: 2229    Date: 4/18/2025

**S1.2**

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**Sheet Title:**

## SECOND FLOOR FRAMING PLAN AND SECTIONS

**Project #:** 2229      **Date:** 4/18/2025



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## S2.1



## S3.1

**KEi**  
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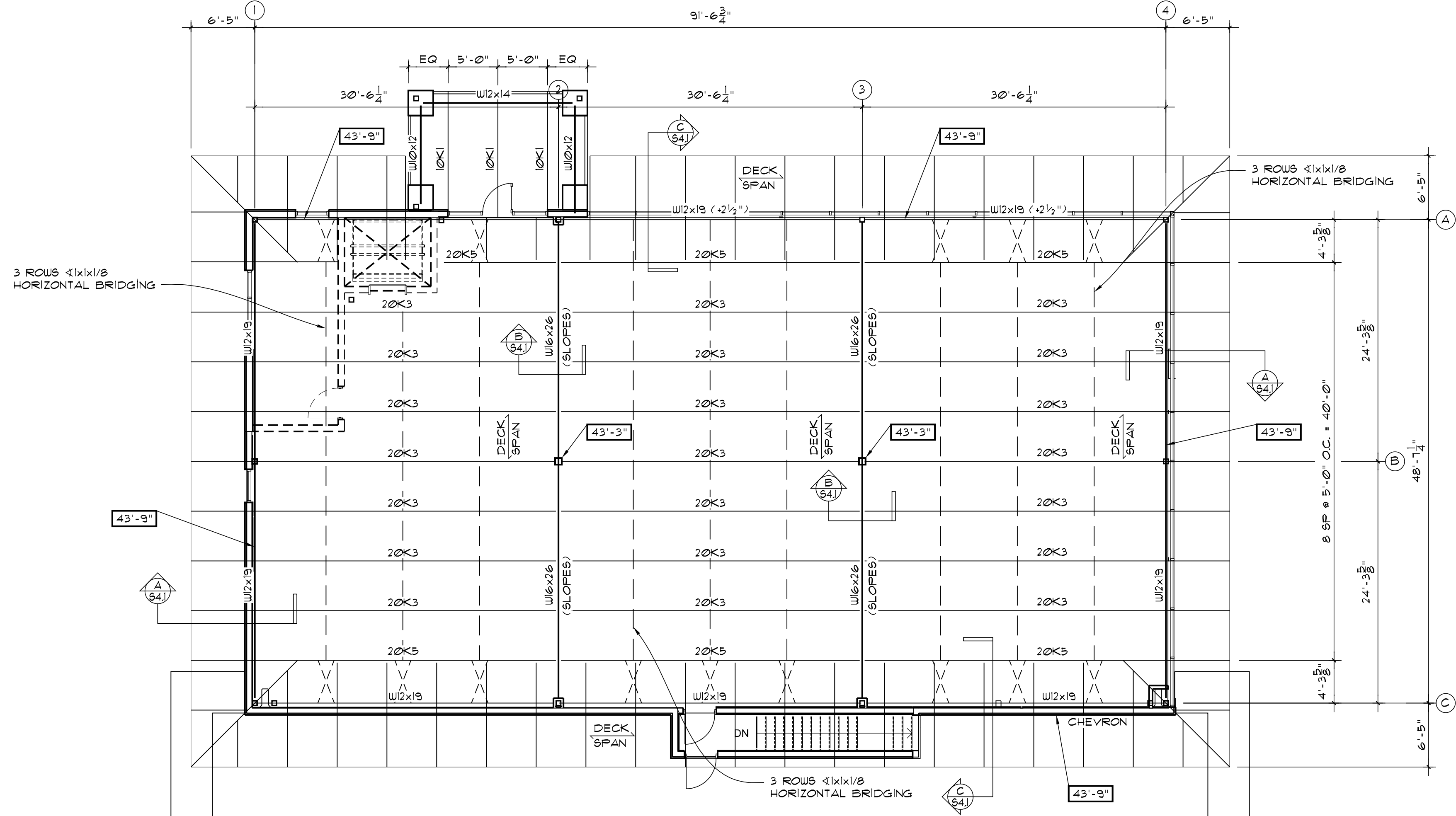
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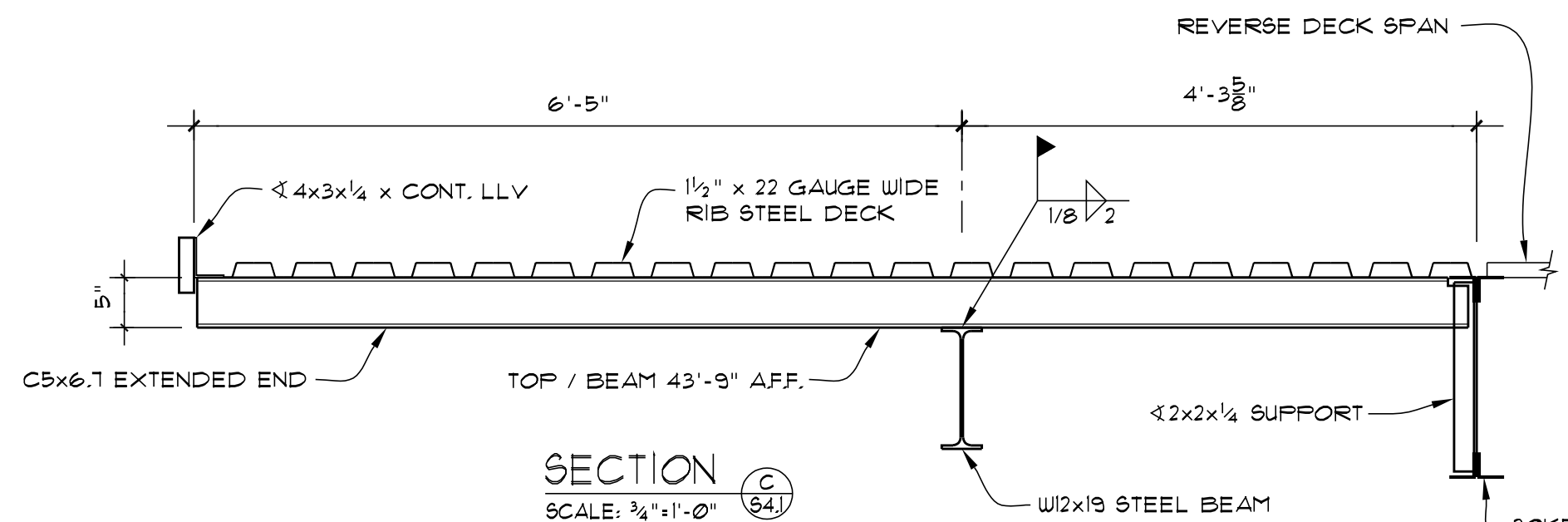
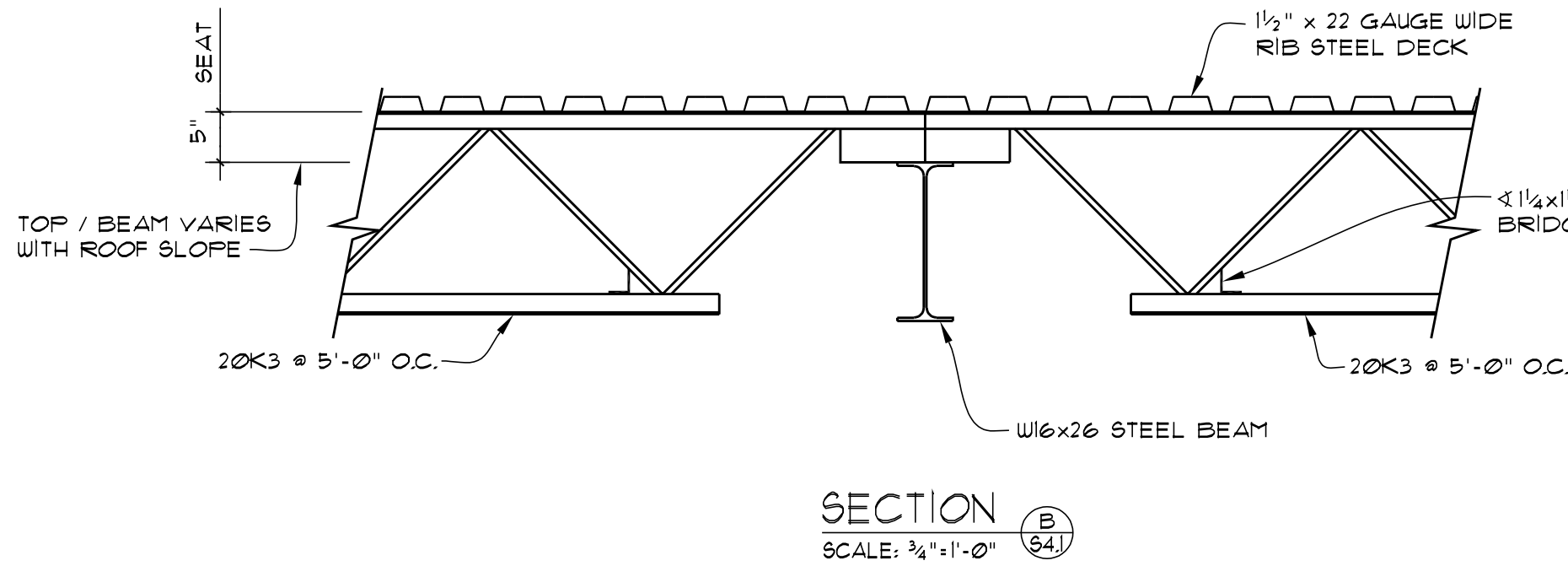
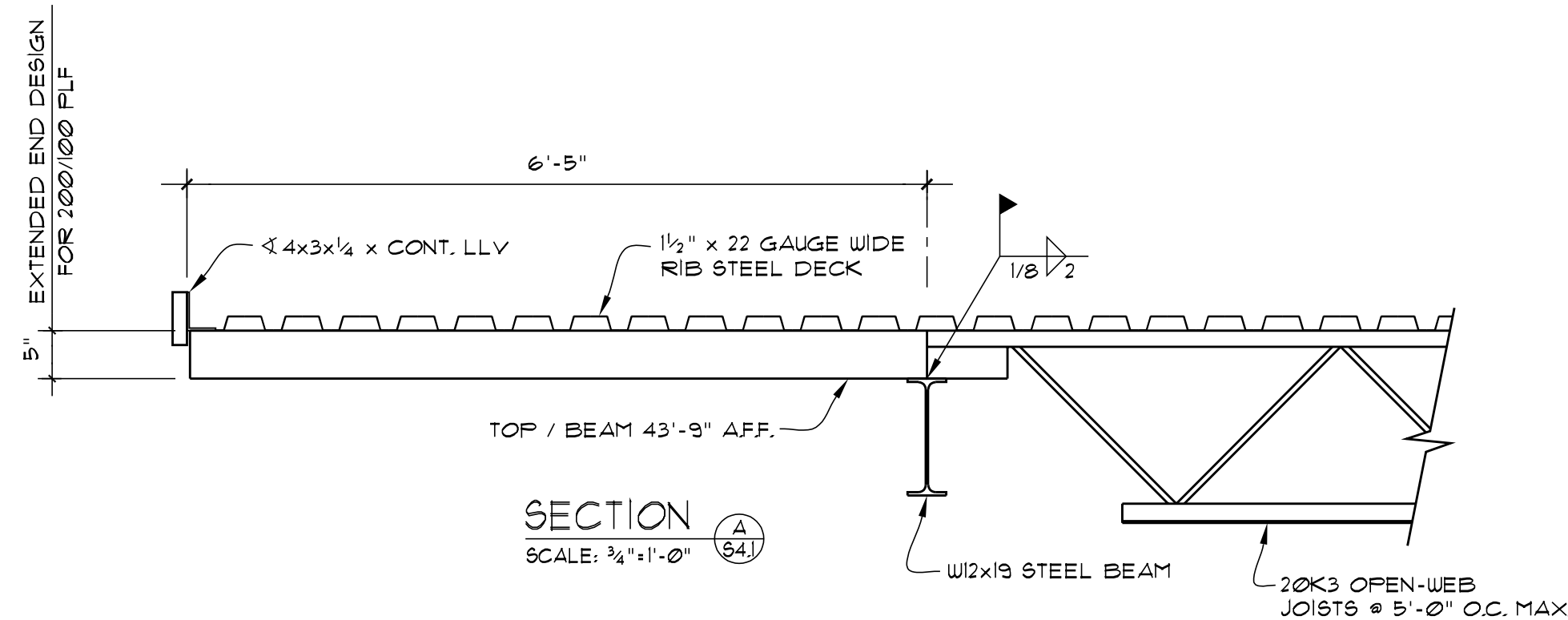
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Project No:24-311





ROOF FRAMING PLAN  
SCALE: 1/8"=1'-0"  
43'-9" = TOP / BEAM AFF.



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ROOF FRAMING PLAN

Project #: 2229    Date: 4/18/2025

**S4.1**

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PLUMBING SPECIFICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:

- A. Plumbing fixtures, fittings and equipment.
- B. Hot and cold water systems.
- C. Drain waste and vent piping systems.
- D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the following:

- Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments)
- Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State supplements and Amendments)
- DOJ 2010 ADA Standards for Accessible Design with Georgia Amendments of Rule 120–3–20.

The contractor should not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearance. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be U.L. listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

**Piping schedule**  
Underground sewer: solid wall PVC  
Aboveground sewer not in a plenum: cellular core PVC  
Aboveground sewer in a plenum: cast iron or cellular core PVC with fire barrier plenum rated wrap  
Underground domestic water: PVC or ductile iron  
Aboveground domestic water 2" and smaller: CPVC  
Aboveground domestic water 2"-1/2" and larger: copper or CPVC with fire barrier plenum rated wrap  
see below for more information

Cast iron Sanitary drain, roof drainage, overflow roof drainage, and vent piping shall be domestic ASTM A 888 or CSPI 301 hubless cast iron soil pipe and fittings with heavy duty ASTM C 1277 and ASTM C 1540 hubless-piping couplings; and coupled joints. Install cast-iron soil piping according to CSPI's "Cast Iron Soil Pipe and Fittings Handbook," Chapter IV, "Installation of Cast Iron Soil Pipe and Fittings." Below ground sanitary drain, roof drainage, overflow roof drainage, and vent piping shall be solid-wall ASTM D2665 schedule 40 PVC. Install underground, PVC plastic drainage piping according to ASTM D2321. Above ground sanitary drain, roof drainage, overflow roof drainage, and vent piping shall be cellular-core ASTM F891 schedule 40 PVC. Install aboveground PVC piping according to ASTM D 2665. All aboveground piping shall be adequately supported. PVC Sanitary drain, roof drainage, overflow roof drainage, and vent piping shall have PVC Socket Fittings (ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe). Slope pipe sizes 6" and under at 1/8 inch per foot continuously toward public sewer. Slope pipe sizes 8" and larger at 1/16 inch per foot continuously toward public sewer. Provide PVC IFEX type 1 expansion joints on alternating floors on horizontal sewer, storm, and vent risers over 30 feet tall.

Insulate all horizontal aboveground roof drainage piping with 1 inch flexible fiberglass insulation with FSK jacket.

Insulate aboveground floor drains, traps, and sanitary drain piping within 10 feet of drain receiving condensate and equipment drain water below 60" with 1" thick type i performed glass-fiber pipe insulation, 1-1/2" cellular glass, or 1" flexible elastomeric.

All copper hot and cold domestic water piping shall be ASTM B88 type L or M smooth hard drawn copper tubing with wrought copper fittings. Prevent dissimilar metal contact between copper pipe and ferrous pipe support components. All CPVC above ground domestic water distribution piping shall be ASTM D 2846, SDR11, schedule 40 CPVC with socket fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation. All underground domestic water distribution piping 1" and smaller shall be ASTM D 878 & ASTM F 877 PEX with no fittings underground. All underground domestic water distribution piping 1-1/4" and larger shall be ASTM D 1785 schedule 40 PVC with ASTM D 2466 PVC socket fittings. Wrap piping larger than 2" in return air plenums with fire barrier plenum rated wrap.

DOMESTIC WATER PIPING CLEANING

- A. Clean and disinfect potable domestic water piping as follows:
  - 1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
  - 2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
    - a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
    - b. Fill and isolate system according to either of the following:
      - 1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
      - 2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
    - c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
    - d. Repeat procedures if biological examination shows contamination.
    - e. Submit water samples in sterile bottles to authorities having jurisdiction.
- B. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
- C. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type ASJ/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic Cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic Hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

HW & CW Valves: Use pipe size valves, as shown below:

- A. Ball: Watts LFFBV-3C.
- B. Check: Watts #600 or #601S.

Balancing valves shall confirmed to MSS SP-110 for two-piece, copper-alloy ball valves. Balancing valves shall be copper alloy, memory-stop type, chrome-plated brass ball, replaceable seats & seals, vinyl-covered steel handle with memory-setting device.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron: All brass tubing shall be 17 gage, chrome plated. Exception: If the fixture tailpieces and traps are located in cabinets, the tailpiece & trap shall be PVC. Grid drains for public lavatories. Basket strainers for break room sinks.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type.

Urinal Supports shall be type I, urinal carrier with fixture support plates and coupling with seal and fixture bolts and hardware matching fixture for wall-mounting, urinal-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Lavatory Supports shall be type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Plate type wall hangers for water coolers.

Thermometers shall comply with standard ASME B40.200.

Lavatory/ Sink supply fittings: NSF Standard: Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components – Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/CSA B125.1. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for conceal behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require furring other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Extend all plumbing vents above roof to parapet height.

Permanently close and make weatherproof any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices.

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary and storm drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority.

Domestic water piping tests: Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. Leave new, altered, extended, or replaced domestic water piping uncovered and uncealed until it has been tested and approved. Expose work that was covered or concealed before it was tested. Cap and subject piping to static water pressure of 50 psig (345 kPa) above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow it to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired. Repair leaks and defects with new materials, and retest piping or portion thereof until satisfactory results are obtained.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru roof (VTR) shall be offset a minimum of 10"-0" from all outside air intakes.

Provide Plastic Pipe Markers on all aboveground plumbing piping that Comply with ASME A13.1. Minimum information indicating flow direction arrow and identification of fluid being conveyed. Install labeling on pipe at intervals of not more than 20 feet and at least once in each room.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

Approved manufactures: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan  
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons  
Supplies & Traps: Engineered Brass CO., McGuire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn  
Flush Valves: Sloan, Delany, Zurn, American Standard  
Floor Drains & Cleanouts: Zurn, Jay R Smith, Proset, Watts, Mifab, Wade, Josam, Sioux Chief, Oatey  
Water Heaters: A.O. Smith, Lochinar, Bradford White, State, Rheem  
Toilet Seats: Bemis, Centocox, Church Seats, Olsonite, Beneke, Zurn, Mainline  
Stainless Steel Sinks: Dayton, Elkay, Just, Kohler, Moen, Sterling, Franke  
ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey  
Fixture Supports: MIFAB, Jay R. Smith, Wade, Watts, Zurn  
Mixing Valves: Armstrong, Leonard, Powers, Symmons, Lawler  
Wall Hydrants/ Hose Bibbs: MIFAB, Jay R. Smith, Wade, Watts, Woodford, Zurn  
Expansion Tanks: AMTROL, State, Watts, Wilkins  
Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Jay R. Smith, Wade, Watts, Zurn  
Outlet Boxes: Acorn, IPS, Oatey  
Brass Valves: American, Crane, Watts, Apollo  
Circulation Pumps: Armstrong, Bell & Gossett, Grundfos, TACO  
Sump Pumps: Myers, Zoeller, Blue Angel, Liberty  
Showers: Aqua Bath, Aquarius, Clarion, Best Bath, Aqua Glass, Aquatic  
Pool Sinks: Stern Williams, Acorn, Fiat  
Air Admittance Valves: Studor, Oatey

| FIXTURE AND EQUIPMENT SCHEDULE |  |             |               |              |        |                  |      |   |  |
|--------------------------------|--|-------------|---------------|--------------|--------|------------------|------|---|--|
| #                              | FIXTURE TYPE   | WASTE       |               | WATER SUPPLY |        | WATER FIX. CONN. |      | MANUFACTURE AND NOTES   |  |
|                                |  | BELOW FLOOR | FIXTURE CONN. | COLD         | HOT    | COLD             | HOT  |   |  |
| WC1                            | REAR SPUD WATER CLOSET 1.28 GPF<br>MATTIE BALCK TRIM     | 3"          | 3"            | 1"           |        | 1"               |      | KOHLER K-96058-0 WATER CLOSET. DETLA 1800D60TR-48-BL FLUSH VALVE, 1800D60RI ROUGH-IN, & 060771A TRANSFORMER. BEMIS 1655S3CT SEAT.                       |  |
| WC2                            | ADA REAR SPUD WATER CLOSET 1.28 GPF<br>MATTIE BLACK TRIM | 3"          | 3"            | 1"           |        | 1"               |      | KOHLER K-96058-0 WATER CLOSET. DETLA 1800D60TR-48-BL FLUSH VALVE, 1800D60RI ROUGH-IN, & 060771A TRANSFORMER. BEMIS 1655S3CT SEAT.                       |  |
| WC3                            | ADA REAR SPUD WATER CLOSET 1.28 GPF<br>CHROME TRIM       | 3"          | 3"            | 1"           |        | 1"               |      | KOHLER K-96058-0 WATER CLOSET. DETLA 1800D60TR-48 FLUSH VALVE, 1800D60RI ROUGH-IN, & 060771A TRANSFORMER. BEMIS 1655S3CT SEAT.                          |  |
| UR1                            | URINAL 0.125 GPF   | 2"          | 2"            | 3/4"         |        | 3/4"             |      | KOHLER K-5452-ER-0 URINAL. DETLA 1800D90TR-05-BL FLUSH VALVE, 060771A TRANSFORMER, & 1800D90RI ROUGH-IN.  |  |
| UR2                            | ADA URINAL 0.125 GPF                                     | 2"          | 2"            | 3/4"         |        | 3/4"             |      | KOHLER K-5452-ER-0 URINAL. DETLA 1800D90TR-05-BL FLUSH VALVE, 060771A TRANSFORMER, & 1800D90RI ROUGH-IN.  |  |
| LAV1                           | ADA THREE STATION TROUGH SINK 0.5 GPM                    | 2"          | 1-1/4"        | 1/2"         | 1/2"   | 1/2"             | 1/2" | SOPHSTONE TROUGH SINK SOPH-ST-CUST-120" COLOR SHADOW. DELTA 8100PA50-BLSD FAUCET, 060701A TRANSFORMER, R3270-MIXLF MIXING VALVE, & 061431A SOAP BOTTLE. |  |
| LAV2                           | ADA TWO STATION TROUGH SINK 0.5 GPM                      | 2"          | 1-1/4"        | 1/2"         | 1/2"   | 1/2"             | 1/2" | SOPHSTONE TROUGH SINK SOPH-ST-CUST-90" COLOR SHADOW. DELTA 8100PA50-BLSD FAUCET, 060701A TRANSFORMER, R3270-MIXLF MIXING VALVE, & 061431A SOAP BOTTLE.  |  |
| LAV3                           | ADA UNDERMOUNT LAVATORY 0.5 GPM                          | 2"          | 1-1/4"        | 1/2"         | 1/2"   | 1/2"             | 1/2" | KOHLER K-2330 LAVATORY. DELTA 8100PA50 FAUCET & 063267A TRANSFORMER. PROVIDE MIXING VAVLE.  |  |
| SNK1                           | UNDERMOUNT EXAM ROOM SINK 1.5 GPM                        | 2"          | 1-1/2"        | 1/2"         | 1/2"   | 1/2"             | 1/2" | KOHLER K-3822-1 SINK. DELTA 620TPA3328TR FAUCET, 060704A TRANSFORMER, & ELAVT000BARI MIXING VALVE.  |  |
| SNK2                           | DROP-IN TWO COMPARTMENT SINK 1.5 GPM                     | 2"          | 1-1/2"        | 1/2"         | 1/2"   | 1/2"             | 1/2" | KOHLER 75791-1-NA SINK. ELKAY LKAV3031LS FAUCET.  |  |
| SNK3                           | UNDERMOUNT MEETING ROOM SINK 1.5 GPM                     | 2"          | 1-1/2"        | 1/2"         | 1/2"   | 1/2"             | 1/2" | KOHLER K-RH28176-1-NA SINK. ELKAY LKAV3031LS FAUCET.  |  |
| SHR1                           | ADA ROLL-IN SHOWER 1.5 GPM                               | 2"          | 1-1/2"        | 1/2"         | 1/2"   | 1/2"             | 1/2" | AQUATIC 16030BFC SHOWER WITH GRAB BARS, SOAP DISH, BRASS DRAIN, & VINYL FLEXIBLE DAM. MOEN T6342EP15 FAUCET.  |  |
| MOP                            | MOP SINK   | 3"          | 3"            | 1/2"         | 1/2"   | 1/2"             | 1/2" | FIAT MSB2424, 830AA FAUCET, 832AA HOSE/BACKET, 889CC HANGER, MSG2424 PANELS.  |  |
| HB1                            | INTERIOR HOSE BIBB                                       |             |               | 3/4"         |        | 3/4"             |      | WOODFORD 84.  |  |
| HB2                            | INTERIOR HOSE BIBB                                       |             |               | 3/4"         |        | 3/4"             |      | WOODFORD 74.  |  |
| FD1                            | FLOOR DRAIN WITH WATERLESS TRAP<br>PRIMER                | 3"          | 3"            |              |        |                  |      | WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.   |  |
| FCO                            | FLOOR CLEANOUT   | SEE DWG.    | SEE DWG.      |              |        |                  |      | WATTS C012. PROVIDE CARPET MARKER WHEN INSTALLED UNDER CARPET.  |  |
| GCO                            | GRADE CLEANOUT   | 6"          | 6"            |              |        |                  |      | WATTS CO-200-RX-4-60.   |  |
| WCO                            | WALL CLEANOUT  | 4"          | 4"            |              |        |                  |      | WATTS CO-450-RD-60.   |  |
| OB1                            | ICE MAKER BOX WITH WATER HAMMER<br>ARRESTOR              |             |               | 1/2"         |        | 1/2"             |      | WATER TITE AB9701HA. USE GUY GRAY FRIB12ABCHA FIRE RATED BOX ON FIRE RATED WALLS. REFER TO ARCHITECTURAL PLANS FOR FIRE RATED WALLS.                    |  |
| HD1                            | HUB DRAIN  | 2"          | 2"            |              |        |                  |      | WATTS FD-100-DD-60.   |  |
| FS                             | PVC FLOOR SINK   | 3"          | 3"            |              |        |                  |      | WATTS FS-500-150  |  |
| PRV                            | PRESSURE REDUCING VALVE<br>(ASSE 1003)                   |             |               | 2-1/2"       |        | 2"               |      | WATTS LF25AUB-Z3.   |  |
| CB                             | CONDENSATE DRAIN BOX                                     | 2"          | 2"            |              |        |                  |      | OATEY MODA CONENSATE DRAIN KIT WITH SOLID COVER. PROVIDE MODA FIRE RATED BOX IN FIRE RATED WALLS. REFER TO ARCHITECTURAL FOR FIRE RATED WALLS.          |  |
| MV                             | THERMOSTATIC MIXING VALVE (ASSE 1017)                    |             |               | 1-1/4"       | 1-1/4" | 3/4"             | 3/4" | LEONARD TM-420B-LF-DT.  |  |
| DP                             | WATER HEATER DRAIN PAN                                   | 1"          | 1"            |              |        |                  |      | WATER TITE ALUMINUM DRAIN PAN. COORDINATE SIZE WITH WATER HEATER PROVIDED.  |  |

GENERAL FIRE PROTECTION NOTES:

Fire protection sprinkler system design is delegated to the contractor. The fire protection subcontractor is responsible for code compliance, research, design, coordination, and installation of a complete and functional hydraulically calculated sprinkler system (and standpipe system, if required) that meets the approval of and is in accordance with all applicable regulations and requirements of the following and as further specified:

Current edition of NFPA

Applicable Codes

Authorities having jurisdiction.

GENERAL PLUMBING NOTES:

THE WORK INDICATED IS INTENDED TO SHOW THE GENERAL SCOPE OF DEMOLITION/NEW WORK AND IN NO WAY RELIEVES THE CONTRACTOR FROM PROVIDING ANY AND ALL WORK REQUIRED TO COMPLETE THE DEMOLITION/NEW WORK.

WHERE SURFACES ARE DAMAGED BY DEMOLITION, SHALL BE REPAIRED TO MATCH EXISTING (IN MATERIAL, SIZE, ALIGNMENT, JOINT WORK, FINISHES, COLOR, TEXTURE, QUALITY, ETC.) SUCH SURFACES IT DOES NOT INTERFERE WITH NEW WORK OF OTHER TRADES.

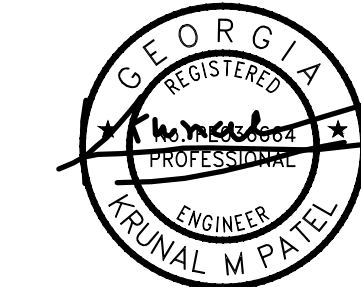
| LEGEND |               |  |                  |       |              |        |                          |
|--------|---------------|--|------------------|-------|--------------|--------|--------------------------|
|        | SHUTOFF VALVE |  | COLD WATER       | (TYP) | TYPICAL      | VTR    | VENT THRU ROOF           |
|        | CHECK VALVE   |  | HOT WATER        | C.T.  | COUNTER-TOP  | AFF    | ABOVE FINISHED FLOOR     |
|        | PIPE UP       |  | HOT WATER RETURN | DN    | DOWN         | CW     | COLD WATER               |
|        | PIPE DOWN     |  | SEWER VENT       | CONN. | CONNECTION   | HW     | HOT WATER                |
|        | PDI UNIT      |  | SEWER            | NTS   | NOT TO SCALE | B.F.F. | BELOW FINISH FLOOR       |
|        | DRAWINGS      |  | FIRE SPRINKLER   | VT    | VENT         | FLR    | FLR                      |
|        |               |  | GAS              |       |              | FTE    | FINISHED FLOOR ELEVATION |
|        |               |  |                  |       |              |        |                          |

| WATER HEATER & TANK SCHEDULE |              |              |                               |        |    |             |
|------------------------------|--------------|--------------|-------------------------------|--------|----|-------------|
| MARK                         | MANUFACTURER | MODEL NUMBER | TYPE                          | GALLON | KW | *ELECTRICAL |
| WH                           | A.O. SMITH   | DVE-120      | COMMERCIAL ELECTRIC TANK TYPE | 119    | 27 | VOLTS PHASE |
| ET                           | WATTS        | PLT-35       | EXPANSION TANK                | 14     | -  | - -         |

CONTRACTOR SHALL CONSULT THE ELECTRICAL DOCUMENTS FOR VOLTAGE AND PHASE.

| PUMP SCHEDULE |               |                              |              |          |           |     |           |             |
|---------------|---------------|------------------------------|--------------|----------|-----------|-----|-----------|-------------|
| MARK          | PUMP TYPE     | BASIS OF DESIGN MANUFACTURER | MODEL NUMBER | RPM      | HP/ WATTS | GPM | FEET HEAD | *ELECTRICAL |
| SP            | SUMP PUMP     | LIBERTY PUMPS                | ELY290HV     | 3450     | 3/4 HP    | 50  | 15        | VOLTS PHASE |
| RC            | RECIRCULATION | TACO                         | O026e3-SF2   | 830-3800 | 120 WATTS | 6   | 14.06     | 208 1       |

VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.



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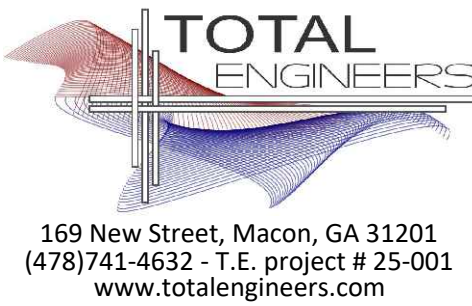
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OFFICE RENOVATION FOR VILTIES HOLDINGS LLC

4951 FORSYTH ROAD, MACON, GA 31210

| Revisions: |  |
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|            |  |
|            |  |
|            |  |
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Sheet Title:  
PLUMBING SPECIFICATIONS



Project #: 2229 Date: 04/18/2025

P0.1



FIRE PROTECTION BASIC MATERIALS AND METHODS  
(FIRE PROTECTION SECTION 1 OF 2)

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Pipe, fittings, valves, and connections for combination sprinkler and standpipe systems.

1.2 REFERENCES

- A. ASME B16.1 – Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250; The American Society of Mechanical Engineers.  
B. ASME B16.3 – Malleable Iron Threaded Fittings; The American Society of Mechanical Engineers.  
C. ASME B16.4 – Gray Iron Threaded Fittings; The American Society of Mechanical Engineers.  
D. ASME B16.5 – Pipe Flanges and Flanged Fittings; The American Society of Mechanical Engineers; (ANSI/ASME B16.5).  
E. ASTM A 47/A 47M – Standard Specification for Ferritic Malleable Iron Castings.  
F. ASTM A 53/A 53M – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.  
G. ASTM A 795/A 795M – Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use.  
H. 2019 NFPA 13 – Standard for the Installation of Sprinkler Systems, as adapted an amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120–3–3.–04(10).  
I. 2019 NFPA 24 – Standard for the Installation of Private Fire Service Mains and Their Appurtenances, as adopted an amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120–3–3.–04(22).  
J. 2019 NFPA 72 – National Fire Alarm and Signaling Code, as adopted an amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120–3–3.–04(53).  
K. 2018 Life Safety Code, as adopted an amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120–3–3.–04(72).  
L. 2018 International Fire Code (as adopted and amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120–3–3.–04(3))  
M. UL (FPEI) – Fire Protection Equipment Directory; Underwriters Laboratories Inc.; current edition.  
N. UL 262 – Gate Valves for Fire-Protection Service; Underwriters Laboratories Inc..  
O. Chapter 120–3–3 of the Rules of the Safety Fire Commissioner.  
P. Georgia State Minimum Standard Building Code (International Building Code 2018 Edition, with Georgia State Amendments). NFPA Code, where more stringent, shall take precedence.

1.3 SUBMITTALS

- A. Product Data: Provide manufacturers catalogue information. Indicate valve data and ratings.  
B. Shop Drawings: Indicate pipe materials used, jointing methods, supports, floor and wall penetration seals. Indicate installation, layout, weights, mounting and support details, and piping connections.  
C. Project As-Built Documents: Record actual locations of components and tag numbering.  
D. Operation and Maintenance Data: Include installation instructions and spare parts lists.

1.4 QUALITY ASSURANCE

- A. Fire Protection  
1. The Contractor expressly warrants that the company performing the installation of the fire protection systems has demonstrated proficiency in the installation, start-up and adjustment of such systems by the successful performance of work of the nature specified herein on at least 5 commercial or institutional buildings, each containing minimum of 10,000 f12 of protected area or greater.  
2. The Contractor further warrants that the aforesaid subcontractor has trained personnel, instruments, tools, and equipment to perform the installation specified.  
3. The Contractor also warrants that the aforesaid installer has been in business performing services of the nature specified herein for at least five-years.  
4. Provide a certificate of competency as issued by the Georgia State Fire Marshal's Office.  
B. Conform to UL and FM requirements.  
C. Valves: Bear UL and FM label or marking. Provide manufacturer's name and pressure rating marked on valve body.  
D. Products Requiring Electrical Connection: Listed and classified as suitable for the purpose specified and indicated.

1.5 DELIVERY, STORAGE, AND PROTECTION

- A. Deliver and store valves in shipping containers, with labeling in place.  
B. Provide temporary protective coating on cast iron and steel valves.  
C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

1.6 EXTRA MATERIALS

- A. Provide additional materials as provided in these specifications and by NFPA.

PART 2 PRODUCTS

2.1 GENERAL SYSTEM AND PRODUCT REQUIREMENTS

- A. Sprinkler Systems: Conform work to NFPA 13.  
B. Standpipe and Hose Systems: Conform to NFPA 14.  
C. Welding Materials and Procedures: Conform to ASME Code.  
D. Building is light hazard, ordinary hazard group, and extra hazard group. Pipe sizes shall be hydraulically calculated based upon flow test to be conducted by contractor.  
E. Provide hydraulic calculations over the most remote 1500 square feet providing density required for hazard as indicated in NFPA 13. Minimum discharge pressure shall be 7.0 PSI. Minimum residual pressure at city water main in the street shall be 20.0 PSI. Provide 10.0 PSI minimum safety margin in hydraulic calculations at design point. Design area reduction per NFPA 13 is not allowed.  
F. Basis of design: Contractor shall perform, or have performed, at the same time, a Fire Flow and Twenty Four Hour Static Test to assure flow equals or exceeds specified basis of design flow rate prior to preparing shop drawings, installing system or performing calculations. Prepare calculations based on confirmed flow data or basis of design flow data, whichever is lowest. Flow test shall be performed in accordance with NFPA 13 and Rules and Regulations of Safety Fire Commissioner, O.C.G.A. Chapter 120–3–3. Modify flow test pressures (static and residual), if pressure recorded in 24 hour test is lower than flow test pressures for one hour duration, to lowest hour test pressure.  
G. No pipe shall be routed above electrical panels and equipment as required by National Electrical Code, on control side or beneath suspended mechanical equipment except where specifically required by Code, in which case, provisions shall be made for service access.  
H. Inspectors test connection(s) shall discharge to the outside of the building in location(s) acceptable to the Architect.  
I. Inside auxiliary drains, if needed, shall discharge in location(s) acceptable to the Architect.Drain and test connection piping, if in finished space, shall be installed concealed.

2.2 BURIED PIPING

- A. Refer to Civil plans and specifications for piping type.

2.3 ABOVE GROUND WET SYSTEM PIPING

- A. Steel Pipe: ASTM A 795 Schedule 10 or ASTM A 53 Schedule 40, black. Piping 2" and smaller shall be threaded. Piping 2 1/2" and larger shall be grooved with rigid couplings.  
1. Cast Iron Fittings: ASME B16.1, flanges and flanged fittings and ASME B16.4, threaded fittings.  
2. Malleable Iron Fittings: ASME B16.3, threaded fittings and ASTM A 47/A 47M.  
3. Mechanical Grooved Couplings: Rigid malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe. Reducing couplings are NOT allowed.

2.4 PIPE HANGERS AND SUPPORTS

- A. Hangers for Pipe Sizes 1/2 to 1–1/2 inch: Malleable iron, adjustable swivel, spill ring.  
B. Hangers for Pipe Sizes 2–inches and Over: Carbon steel, adjustable, clevis.  
C. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.  
D. Vertical Support: Steel riser clamp.  
E. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.  
F. Provide support for any vertical pipe 36" in length or greater except armovers. Provide supports 12–0" O.C. maximum or at floor levels.  
G. Threaded rods shall NOT be bent. Bending is permitted only in unthreaded sections of hanger rods. Bending shall occur as close to the hanger as possible. Provide a swivel assembly if required.

2.5 GATE VALVES

- A. Up to and including 2 inches:  
1. Manufacturers:  
a. Nibco Scott; Product T–104–0  
b. Jenkins; Product 275U  
c. Hammond; Product 1B681  
d. Stockham; Product B–133  
e. Kennedy; Product Fig. 66  
2. Bronze body, bronze trim, rising stem, handwheel, solid wedge or disc, threaded ends.  
B. Over 2 inches:  
1. Manufacturers:  
a. Nibco Scott; Product F–607–OTS  
b. Crane; Product 467  
c. Jenkins; Product 825–A  
d. Hammond; Product 1R1154  
e. Stockham; Product G–634  
f. Kennedy; Product Fig. 68  
2. Iron body, bronze trim, rising stem pre–grooved for mounting tamper switch, handwheel, OS&Y, solid rubber covered bronze or cast iron wedge, flanged ends.

2.6 GLOBE VALVES

- A. Bronze body, rubber disc, union bonnet, 174 W.W.P., threaded ends.  
B. Up to and including 2 inches:  
1. Manufacturers:  
a. Nibco–Scott; Product KT–65.  
b. Kennedy; Product 975D.  
c. United; Product 125S.  
d. Fairbanks; Product 4691–3.

2.7 ANGLE VALVES

- A. Bronze body, rubber disc, union bonnet, 174 non–shock cold water, threaded ends.  
B. Up to and including 2 inches:  
1. Manufacturers:  
a. Nibco–Scott; Product T–301–W.  
b. Kennedy; Product 985D.  
c. United; Product 126S.  
d. Fairbanks; Product 4691–3.

2.8 BUTTERFLY VALVES: Not allowed.

2.9 CHECK VALVES

- A. Iron body, U.L. Listed– F.M. Approved, swing type, bronze trimmed, bronze seat and disc, flanged ends.  
B. Manufacturers:  
1. Jenkins; Product 629  
2. Crane; Product 375  
3. Stockham; Product G–939  
4. Mueller; Product A–2120–6  
5. Kennedy; Product #126

2.10 INDICATOR POSTS

- A. Cast iron base, tap section, & cap; malleable iron wrench and locking device; steel stem; cast iron coupling; bronze target holder with aluminum "shut" and "open" targets; Underwriters Laboratories listed, and Factory Mutual approved; available for varying trench depth; and with adjustable depth features.  
B. Manufacturers:  
1. Kennedy Fig. Series 741.  
2. Nibco NIP–1.  
3. Stockham G–951.  
4. Mueller A–20804.

2.11 UNDERGROUND GATE VALVES

- A. 2 1/2–inch and larger, iron body, non–rising stem, bronze stem, iron mounted disc with bronze rings, cast iron 2–inch square operating nut, flange, ends, AWWA spec. C–500.  
B. Manufacturers:  
1. Kennedy Fig. 701X.  
2. Nibco F–609.  
3. Stockham G–635.  
4. Mueller A–2075–20.  
5. M & H Fig. 3067.

PART 3 EXECUTION

3.1 PREPARATION

- A. Ream pipe and tube ends. Remove burrs. Bevel plain end and ferrous pipe.  
B. Remove scale and foreign material, from inside and outside, before assembly.  
C. Prepare piping connections to equipment with flanges or unions.  
D. Storage: All piping shall be stored above ground and protected to prevent dirt and debris from entering pipe.

3.2 INSTALLATION

- A. Install sprinkler system and service main piping, hangers, and supports in accordance with NFPA 13 and these specifications.  
B. Install standpipe piping, hangers, and supports in accordance with NFPA 14.  
C. Install post indicator valve (PIV) upstream of backflow device.  
D. Route piping in orderly manner, plumb and parallel to building structure. Maintain gradient.  
E. Install piping to conserve building space, to not interfere with use of space and other work.  
F. Group piping whenever practical at common elevations.  
G. All piping shall be installed above ceilings in a concealed manner except where no ceilings are present  
H. Sleeve pipes passing through partitions, walls, and floors.  
I. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.  
J. Reducing Tees: Weld–on threaded outlet tees and Coupolet–300 by Bonney Forge Division of Energy Products Group, Central Sprink 701, "TEE–LET" 300 by Merrl Manufacturing Corp., NAP300 by North Alabama Pipe Corp., F400 by Grinnell Corp. may be used for side outlet reducing tees more than two pipe sizes smaller than main. Discs shall be relieved and connected to pipe at point of cutting. Cutting shall comply with NFPA 13, Chapter 6.5.2.8.  
K. Couplings may be used on gridded systems at only one end of each gridded branch line or on 2 1/2" or larger riser nipple to 2" or smaller branch line to facilitate connection provided that the coupling is connected to piping by a cut groove. Rolled grooves are not acceptable.  
L. Pipe Hangers and Supports:  
1. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.  
2. Place hangers within 12 inches of each horizontal elbow.  
3. Use hangers with 1–1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.  
4. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.  
5. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.  
M. Slope piping and arrange systems to drain at low points. Use eccentric reducers to maintain top of pipe level.  
N. Prepare pipe, fittings, supports, and accessories for finish painting. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.  
O. Do not penetrate building structural members unless indicated.  
P. Provide sleeves when penetrating floors and walls. Seal pipe and sleeve penetrations to achieve fire resistance equivalent to fire separation required.  
Q. When installing more than one piping system material, ensure system components are compatible and joined to ensure the integrity of the system. Provide necessary joining fittings. Ensure flanges, union, and couplings for servicing are consistently provided.  
R. Die cut threaded joints with full cut standard taper pipe threads with red lead and lineased oil or other non–toxic joint compound applied to male threads only.  
S. Install valves with stems upright or horizontal, not inverted. Remove protective coatings prior to installation.  
T. Provide gate valves for shut–off or isolating service. No valve shall be installed with the centerline, if horizontal, or wheel, if vertical, more than 9'–0" AFF.  
U. Provide drain valves at main shut–off valves, low points of piping and apparatus.

3.3 CLEANING AND PROTECTION

- A. All materials, equipment and mechanical rooms shall be cleaned prior to the Final Inspection.  
B. Wash down and scrub clean all mechanical room floors, walls, equipment bases and equipment.  
C. Paint equipment where finish has been damaged requiring retouching of finish to match factory finish.  
D. Chipped or scraped paint shall be retouched to match original finish.  
E. All dents and sags in equipment casing shall be straightened.  
F. All equipment, pipe, pipe fittings and appurtenances shall be free of rust and stains prior to substantial completion.  
3.4 FINISHING EQUIPMENT AND MATERIAL  
A. Use paint systems specified in Division 9 for the substrates to be finished.  
B. Paint shop–primed equipment.  
C. Re–install electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.  
D. Paint all exposed pipes, unless otherwise indicated.  
E. All ferrous fasteners and hanger supports not having a corrosion resistant plated finish shall be painted to prevent rust.  
F. Paint all equipment, including that which is factory–finished, exposed to weather or to view on the roof and outdoors.  
G. Paint all exposed un–insulated ferrous materials.

END OF SECTION

FIRE SUPPRESSION SPRINKLERS  
(FIRE PROTECTION SECTION 2 OF 2)

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Wet Type Sprinkler System  
B. Dry–pipe sprinkler system.  
C. System design, installation, and certification.  
D. Fire department connections.

1.2 REFERENCES

- A. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.  
B. NFPA 14 – Standard for the Installation of Standpipe and Hose Systems; National Fire Protection Association.

1.3 SUBMITTALS

- A. Product Data: Provide data on sprinklers, valves, and specialties, including manufacturers catalog information. Submit performance ratings, rough–in details, weights, support requirements, and piping connections.  
B. Shop Drawings:  
1. Indicate hydraulic calculations, detailed pipe layout, hangers and supports, sprinklers, components and accessories. Indicate system controls.  
2. Submit shop drawings, product data, and hydraulic calculations to Fire Marshall for approval and to Architect for review. Submit to Architect prior to submitting to Fire Marshal. Submit proof of approval to the Architect.  
C. Project As–Built Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations. Provide two (2) CD and three (3) paper copies of as–built drawings.

- D. Manufacturer's Certificate: Certify that system has been tested and meets or exceeds specified requirements and code requirements. All certificates shall be signed by certificate holder.  
E. Operation and Maintenance Data: Include components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

1.4 QUALITY ASSURANCE

- A. Maintain one copy of referenced design and installation standard on site.  
B. Conform to UL requirements.  
C. Equipment and Components: Provide products that bear UL label or marking.  
D. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.  
1.5 DELIVERY, STORAGE, AND PROTECTION  
A. Store products in shipping containers and maintain in place until installation. Provide temporary inlet and outlet caps. Maintain caps in place until installation.  
B. Store piping off floor and out of elements. Provide cover for piping to prevent dirt and debris from entering piping. Piping and fittings shall be rust free when installed.  
1.6 EXTRA MATERIALS  
A. Provide extra sprinklers of type and size matching those installed, in quantity required by referenced NFPA design and installation standard.  
B. Provide suitable wrenches for each sprinkler type.  
C. Provide metal storage cabinet located at piping entrance to building.

PART 2 PRODUCTS

2.1 SPRINKLER SYSTEM REQUIREMENTS

- A. Sprinkler System: Provide coverage for entire building.  
B. Occupancy: comply with NFPA 13.  
C. Water Supply: Contractor shall perform or have performed an NFPA–13 water flow test data and a 24 hour static pressure test. Adjust flow test to lowest pressure recorded by 24 hour test of one hour duration.  
D. Interface system with building fire alarm system.  
E. Provide fire department connections where indicated on FP and civil drawings.

2.2 SPRINKLERS

- A. Type and affiliates, Automatic Sprinkler, Reliable, Viking.  
B. All sprinklers installed shall be by the same manufacturer.  
C. Contractor shall select temperature ratings in accordance with NFPA 13, paragraph 8.3.2.  
D. Suspended Ceiling Type: Recessed pendant type with matching flush push on escutcheon plate.  
1. Finish: Chrome plated.  
2. Escutcheon Plate Finish: Chrome plated.  
3. Quick response Glass bulb type temperature rated for specific area hazard.  
E. Gypsum Board Ceiling Type: Concealed pendant type with matching push on escutcheon plate.  
1. Finish: Brass.  
2. Escutcheon Plate Finish: Enamel, Verify color with architect.  
F. Exposed Area Type: Standard upright type.  
1. Finish: Brass.  
2. Fusible Link: Quick Response Fusible solder link type temperature rated for specific area hazard.  
G. Sidewall Type: Standard horizontal sidewall type with matching flush push on two piece escutcheon plate.  
1. Finish: Chrome plated.  
2. Escutcheon Plate Finish: Chrome plated.  
3. Quick Response Fusible solder link type temperature rated for specific area hazard.  
H. Guards: Finish to match sprinkler finish.

2.3 PIPING SPECIALTIES

- A. Dry Pipe Sprinkler Alarm Valve: Check type valve with divided seat ring, rubber faced clapper to automatically actuate water motor alarm and electric alarm, with accelerator; with test and drain valve.  
B. Water Motor Alarm: Hydraulically operated impeller type alarm with aluminum alloy chrome plated gong and motor housing, nylon bearings, and inlet strainer. By same manufacturer as Alarm Valve.  
C. Electric Alarm: Electrically operated chrome plated gong with pressure alarm switch.  
D. Water Flow Switch: Vane type switch for mounting horizontal or vertical, with two contacts; rated 10 amp at 125 volt AC and 2.5 amp at 24 volt DC. Notifier, Simplex, Potter, Grinnell.  
E. Tamper Switch: Switch designed for installation on indicator valves with cased aluminum housing with red finish. Notifier, Simplex, Potter, Grinnell.  
F. Fire Department Connections: Elkhart, Orker Standard, Potter Roemer.  
1. Type: Free standing type with ductile iron pedestal chrome plated finish.  
2. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.  
3. Drain: 3/4 inch automatic drip, outside.  
4. Label: "Sprinkler – Fire Department Connection".  
5. Macon–Bibb County Fire Department Requires British Columbia Threads (BCT) on all Fire Department Connections (FDC).

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install in accordance with referenced NFPA design and installation standard and these specifications.  
B. Sprinklers shall be in line with and centered between down lights unless shown otherwise.  
C. Install equipment in accordance with manufacturer's instructions.  
D. Each floor of multi story buildings shall be zoned.  
E. All dry system piping shall be galvanized down stream of dry valve.  
F. Install buried shut–off valves in valve box. Provide post indicator.  
G. Provide approved double detector check assembly at sprinkler system water source connection.  
H. Locate fire department connection within forty (40–0") feet of nearest fire hydrant and with sufficient clearance from walls, obstructions, or adjacent siamese connectors to allow full swing of fire department wrench handle.  
I. Locate outside alarm gong on building wall at piping entrance to building.  
J. Place pipe runs to minimize obstruction to other work.  
K. Place piping in concealed spaces above finished ceilings.  
L. Center sprinklers in two directions in ceiling tile and provide piping offsets as required.  
M. Apply masking tape or paper cover to ensure concealed sprinklers, cover plates, and sprinkler escutcheons do not receive field paint finish. Remove after painting. Replace painted sprinklers.  
N. Where sprinklers are required under rectangular duct, the centerline of the sprinkler shall be minimum 6" under duct  
O. Install air compressor on vibration isolators.  
P. Flush entire piping system of foreign matter.  
Q. Hydrostatically test entire system.  
R. Require test be witnessed by Fire Marshall.  
S. All drain piping shall discharge to the outside 6" maximum above grade unless noted otherwise.  
T. Where sprinklers are required under oval or round duct, the centerline of the sprinkler shall be under the centerline of the duct.

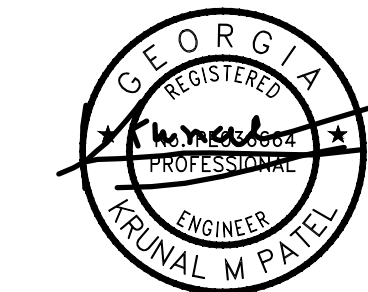
3.2 INTERFACE WITH OTHER PRODUCTS

- A. Ensure required tamper and flow devices are installed and connected as required to fire alarm system including but not limited to Floor control valves, alarm check valve, elevator shaft isolation valve, Post Indicator Valve (PIV) and backflow device valves.

3.3 SCHEDULES

- A. System Hazard Areas:  
1. Office & Public Areas and similar occupancies – Light Hazard Design; 0.10 GPM/sq. ft. over the most remote 1500 square foot.  
2. Building Service Areas, Electrical Equipment Rooms, General Storage Areas, Mechanical Equipment Rooms, Restaurant Service Areas, and similar occupancies – Ordinary Hazard Group 1 Design; 0.15 GPM/sq.ft. over the most remote 1500 square foot.

END OF SECTION



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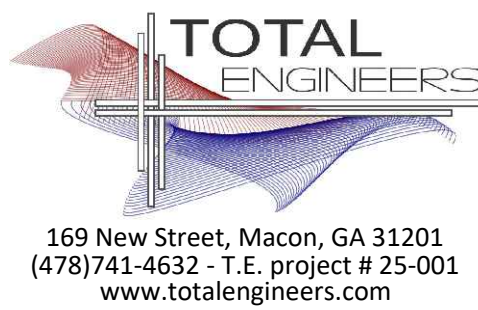
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FIRE SPRINKLER  
SPECIFICATIONS

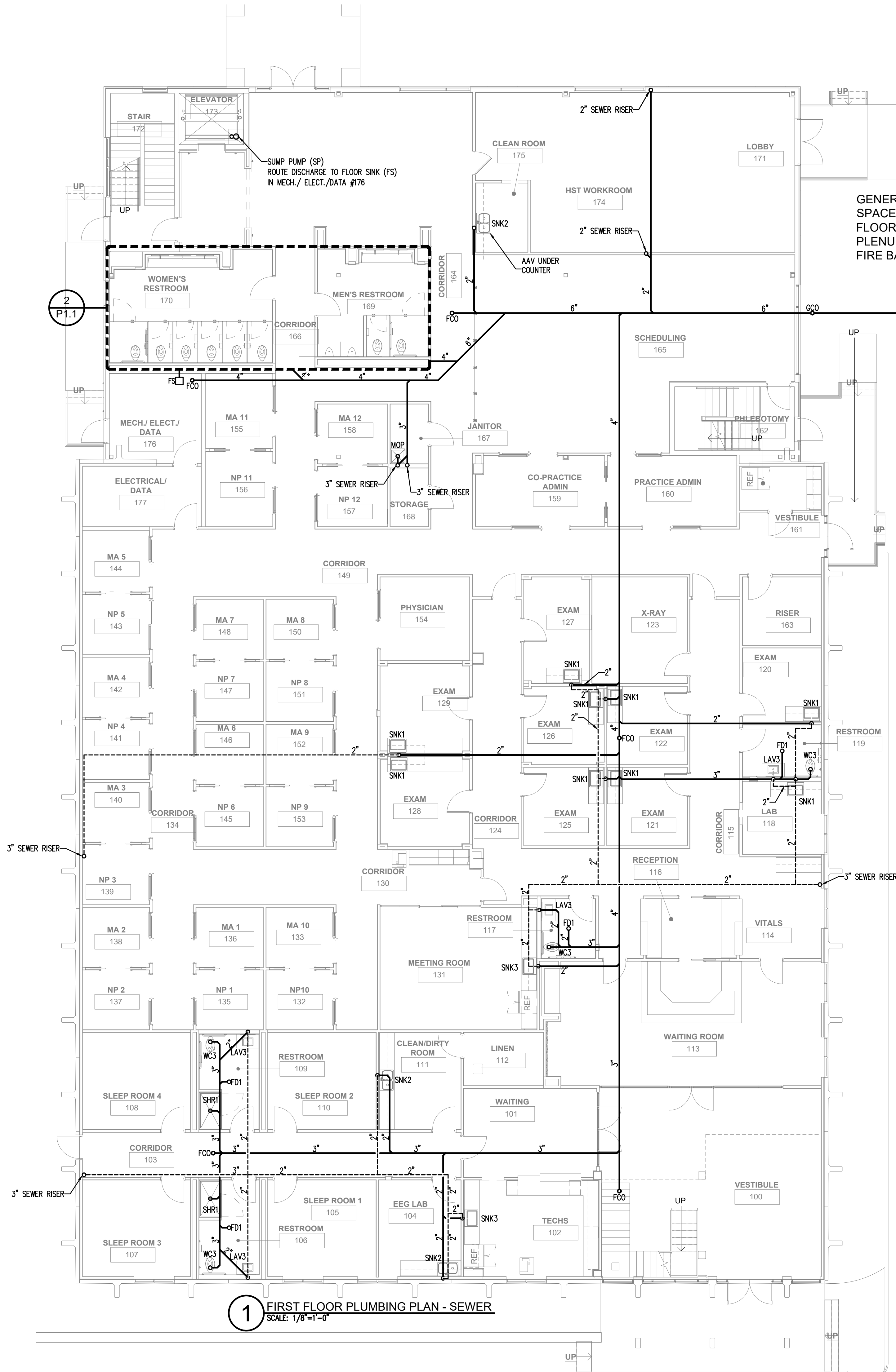
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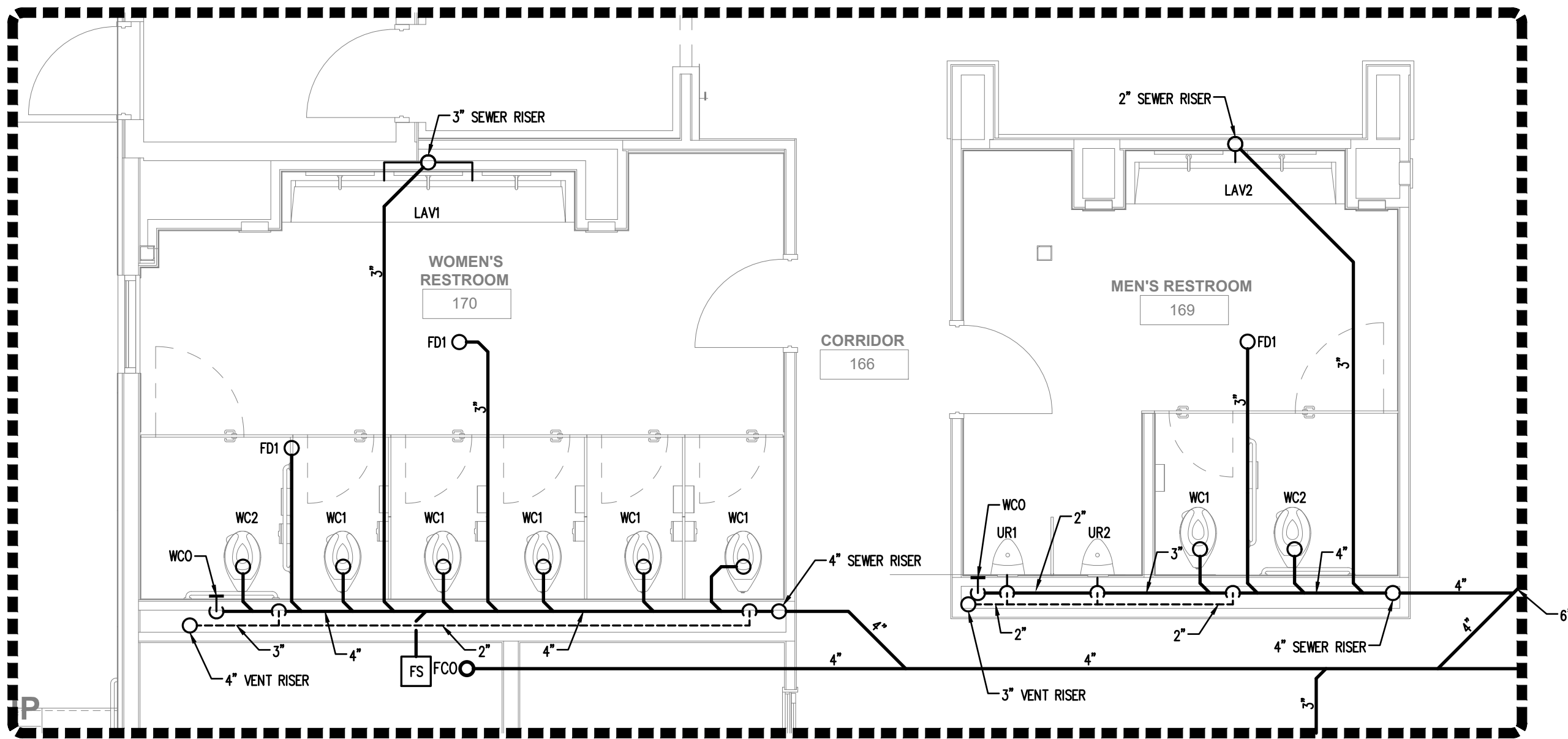
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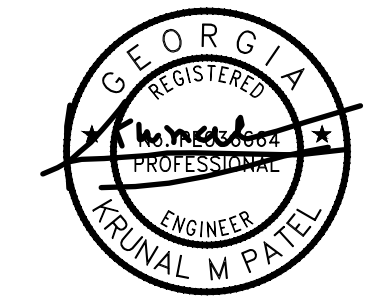
1 FIRST FLOOR PLUMBING PLAN - SEWER  
SCALE: 1/8"=1'-0"



2 FIRST FLOOR RESTROOMS PLUMBING PLAN - SEWER  
SCALE: 1/4"=1'-0"

GENERAL NOTE:  
SPACE ABOVE THE CEILING ON FIRST AND SECOND FLOORS IS A RETURN AIR PLENUM. SEWER PIPING IN PLENUMS ARE REQUIRED TO BE CAST IRON OR PVC WITH FIRE BARRIER PLENUM RATED WRAP.

ROUTE 6" SEWER TO MANHOLE AND 8" SEWER MAIN IN PARKING LOT.  
FIELD VERIFY EXACT LOCATION OF MANHOLE.  
PLUMBER TO COORDINATE ALL PIPING INVERTS WITH EXISTING CONDITIONS PRIOR TO INSTALLATION.



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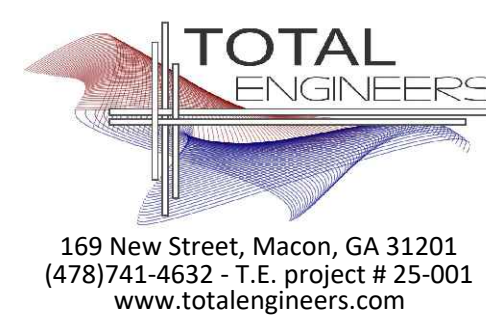
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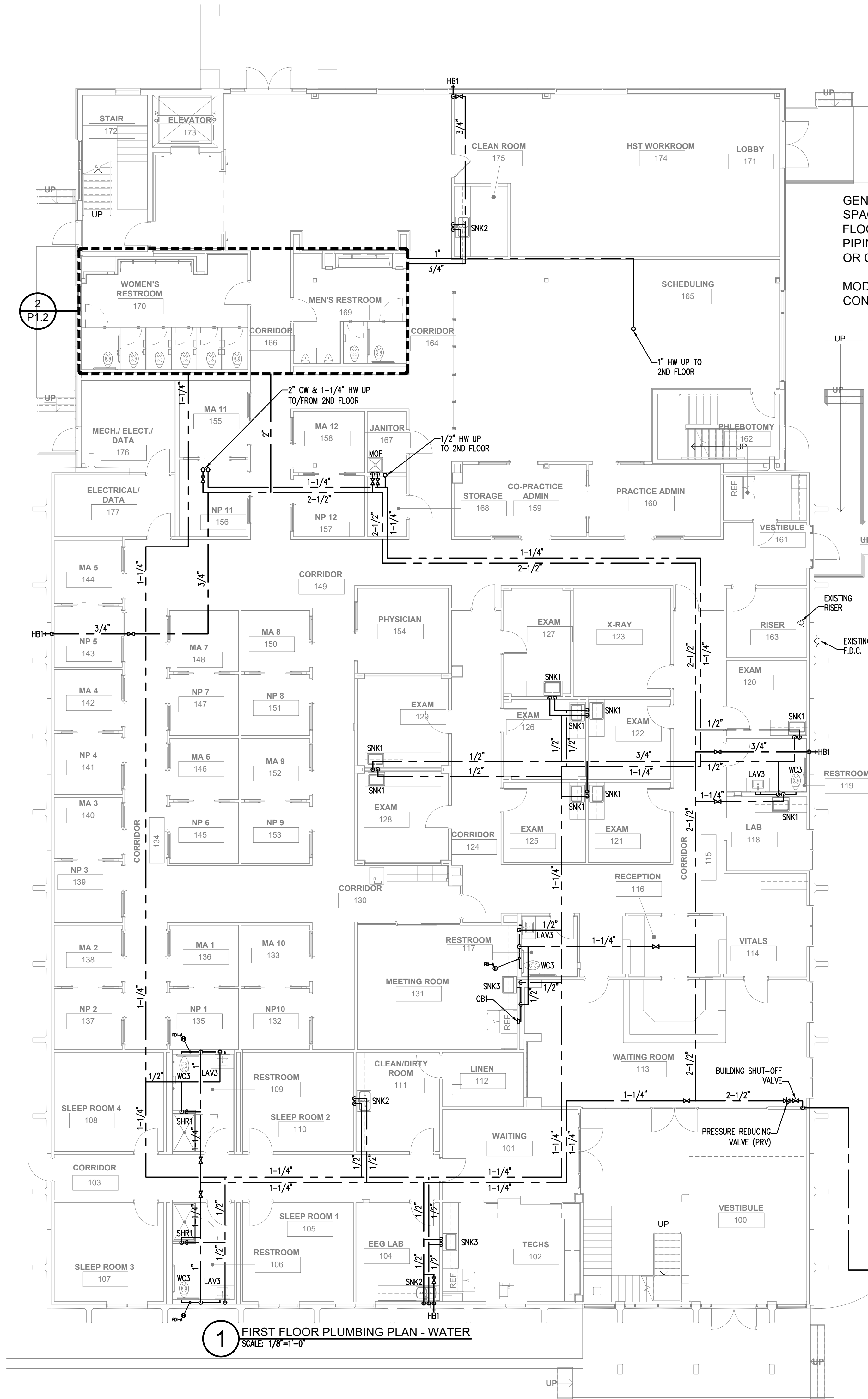
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FIRST FLOOR PLUMBING PLAN - SEWER



Project #: 2229 Date: 04/18/2025

**P1.1**

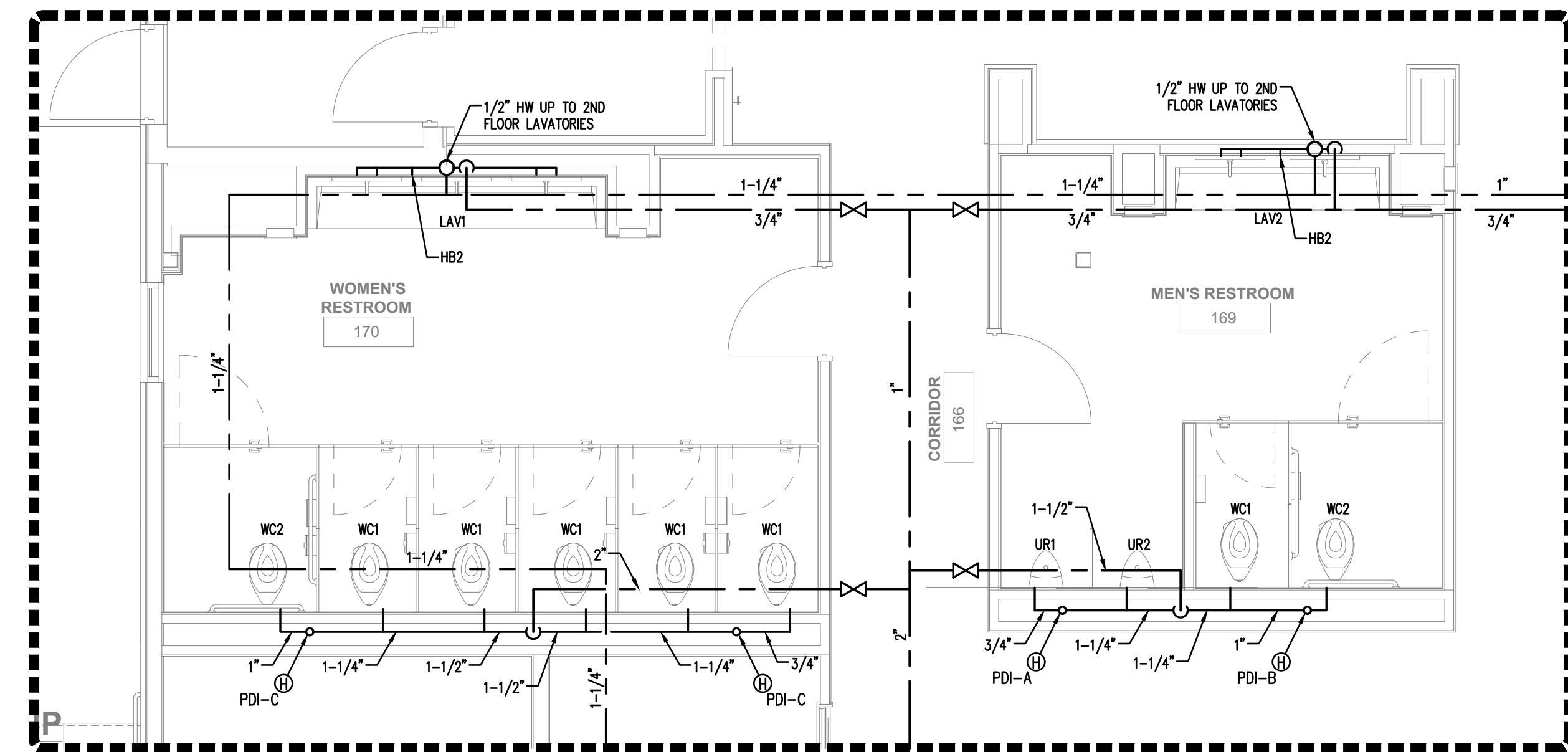




1 FIRST FLOOR PLUMBING PLAN - WATER  
SCALE: 1/8"=1'-0"

GENERAL NOTES:  
SPACE ABOVE THE CEILING ON FIRST AND SECOND FLOORS IS A RETURN AIR PLENUM. DOMESTIC WATER PIPING 2-1/2" IN PLENUMS ARE REQUIRED TO BE COPPER OR CPVC WITH FIRE BARRIER PLENUM RATED WRAP.

MODIFY EXISTING FIRE SPRINKLER SYSTEM TO CONFORM TO NEW BUILDING LAYOUT.



2 FIRST FLOOR RESTROOMS PLUMBING PLAN - WATER  
SCALE: 1/4"=1'-0"

UPGRADE WATER SERVICE.  
ROUTE 2-1/2" DOMESTIC WATER  
UNDERGROUND TO NEW 2" METER.



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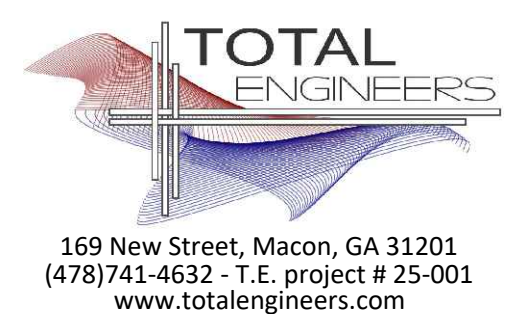
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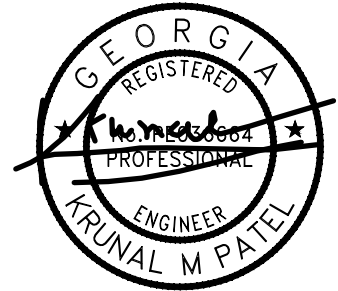
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Sheet Title:  
FIRST FLOOR  
PLUMBING PLAN -  
WATER



Project #: 2229 Date: 04/18/2025

**P1.2**



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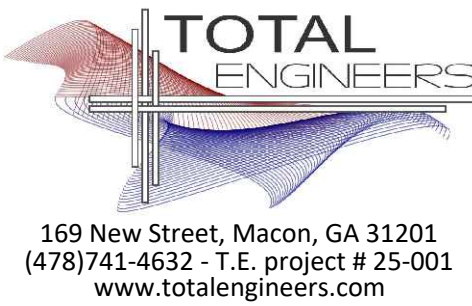
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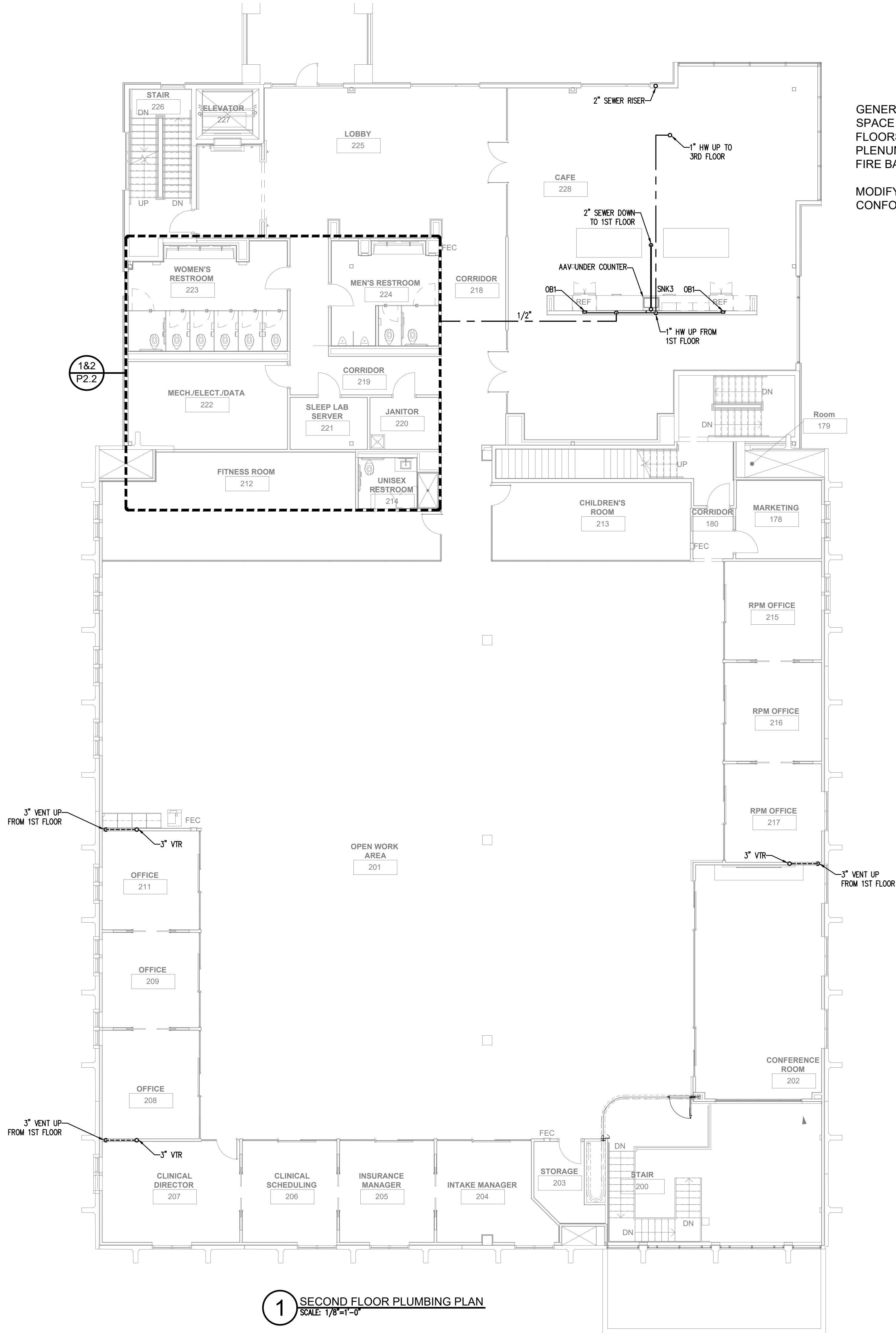
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Sheet Title:  
**SECOND FLOOR  
PLUMBING PLAN**

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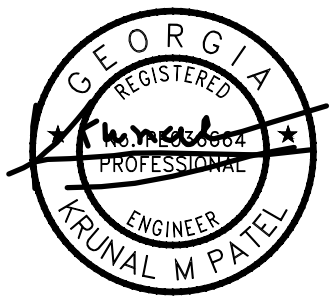


GENERAL NOTES:  
SPACE ABOVE THE CEILING ON FIRST AND SECOND  
FLOORS IS A RETURN AIR PLENUM. SEWER PIPING IN  
PLENUMS ARE REQUIRED TO BE CAST IRON OR PVC WITH  
FIRE BARRIER PLENUM RATED WRAP.

MODIFY EXISTING FIRE SPRINKLER SYSTEM TO  
CONFORM TO NEW BUILDING LAYOUT.

**1 SECOND FLOOR PLUMBING PLAN**  
SCALE: 1/8"=1'-0"





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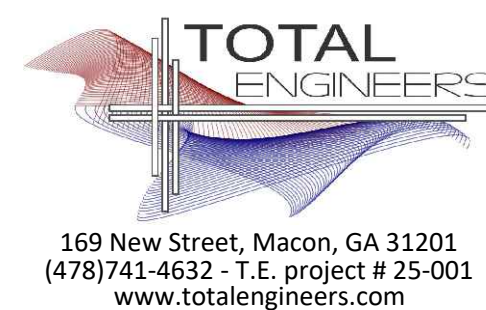
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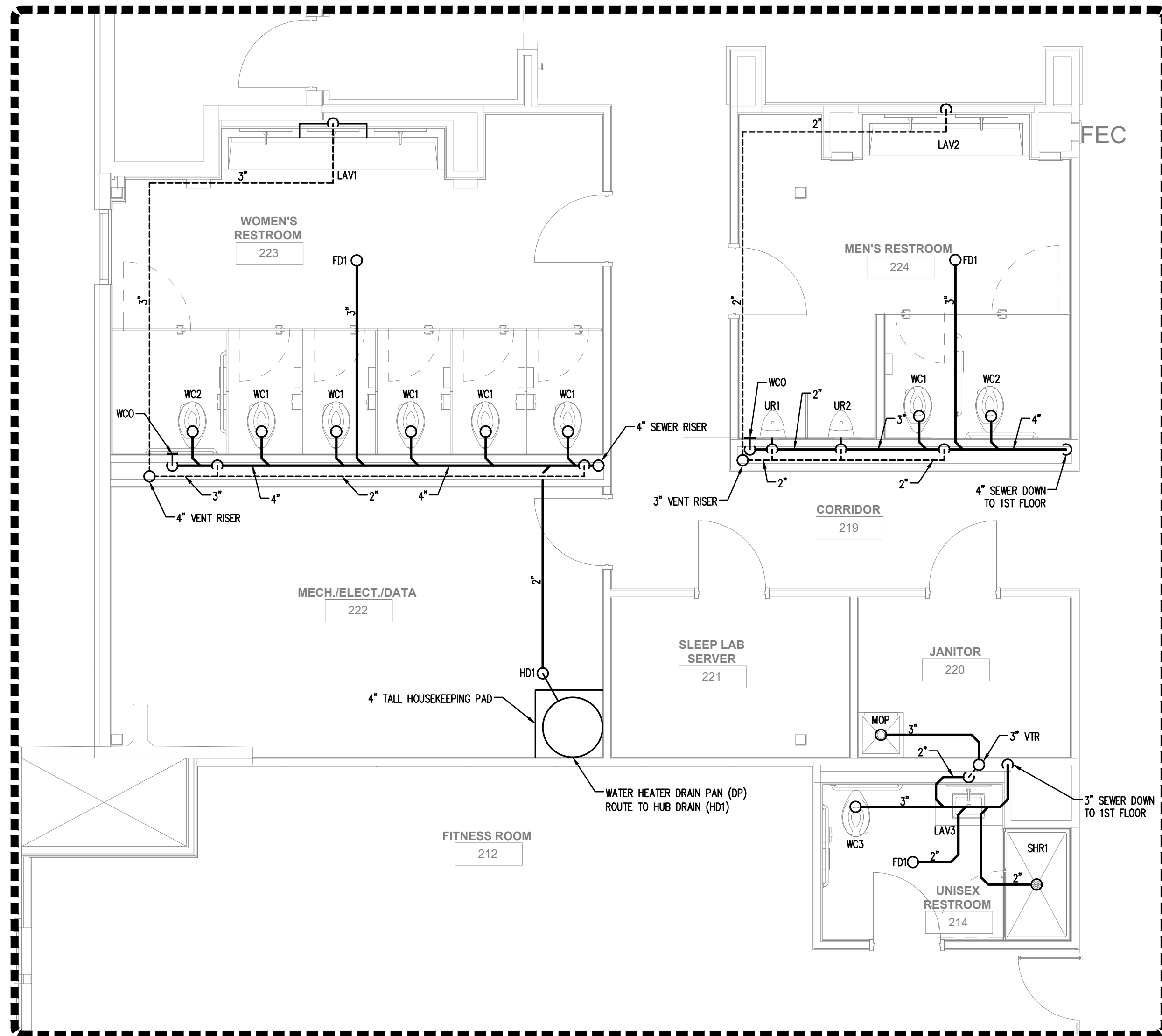
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RESTROOMS  
PLUMBING PLAN**

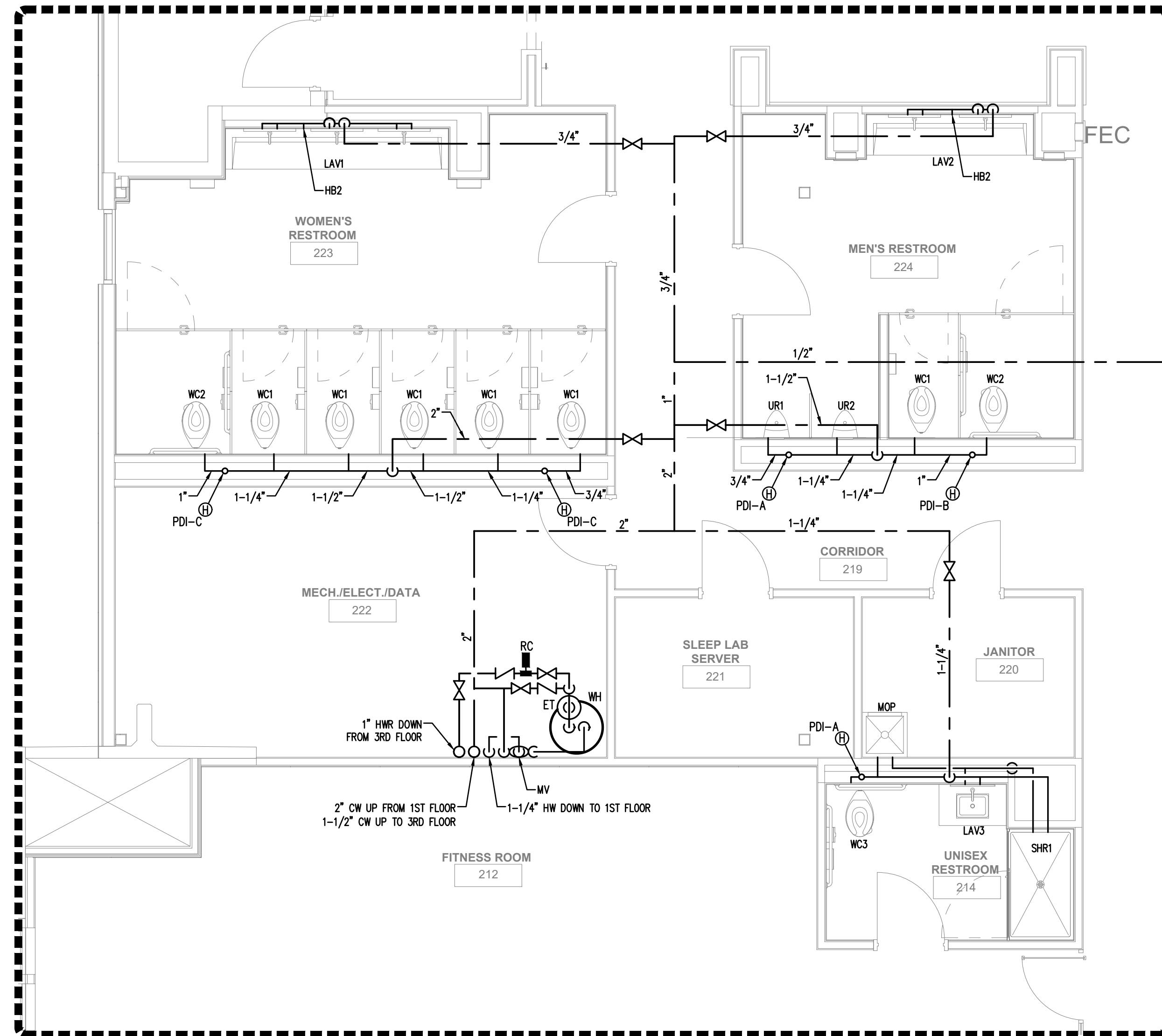
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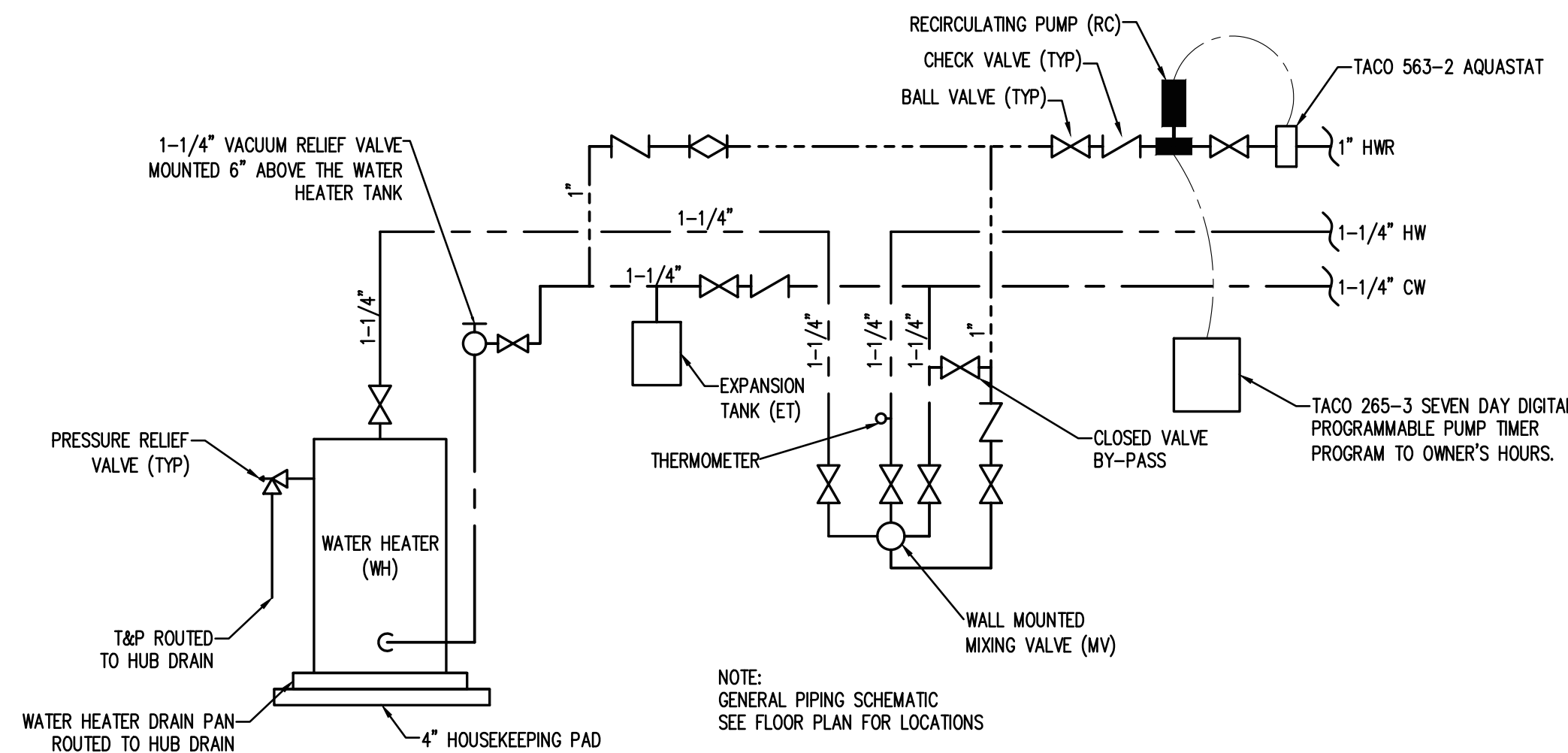
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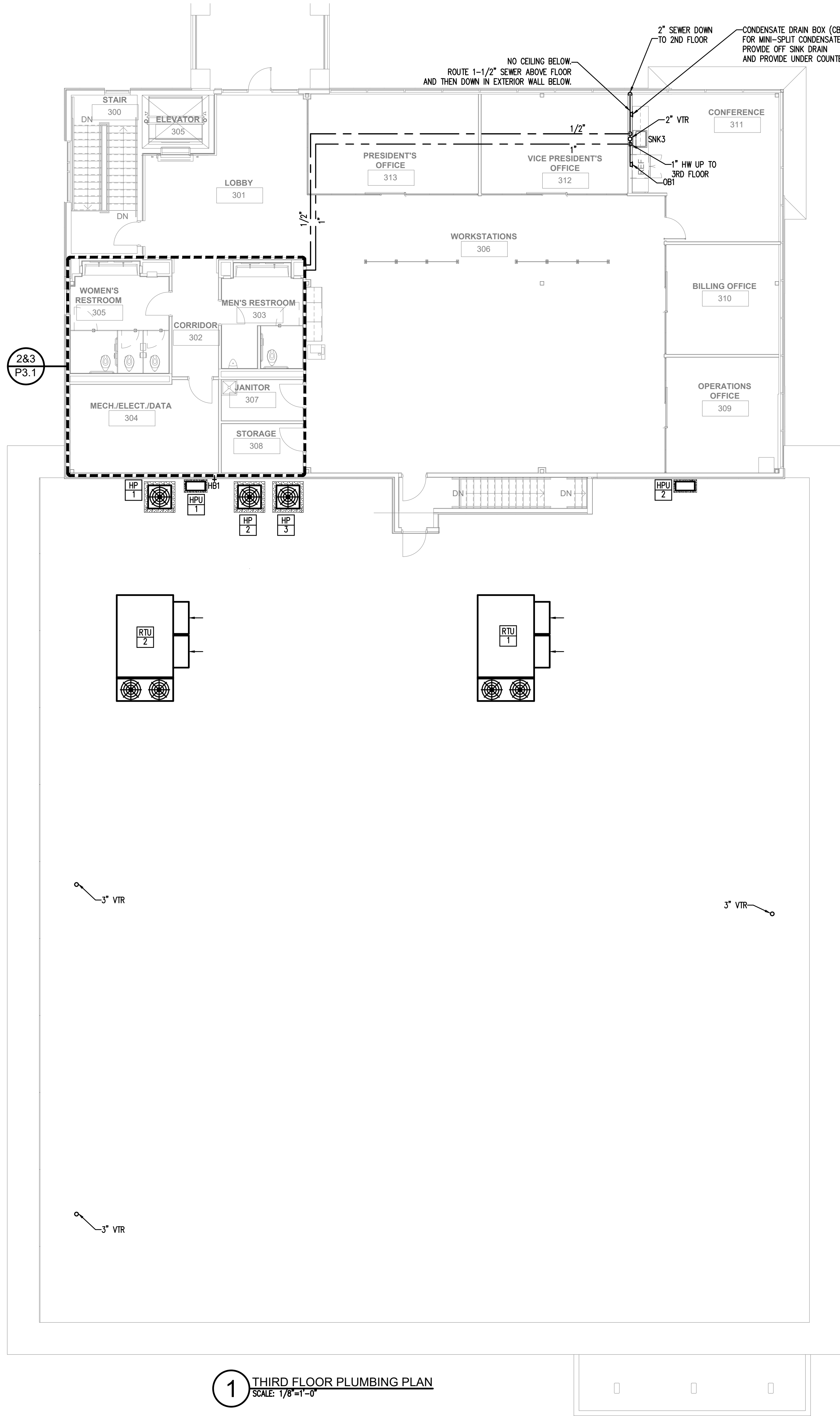
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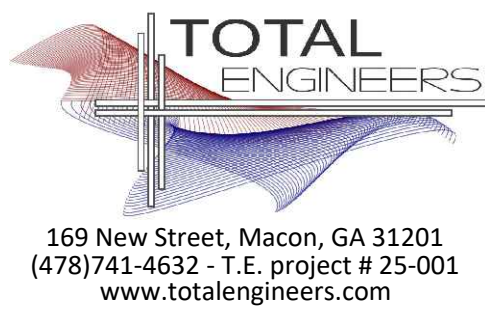
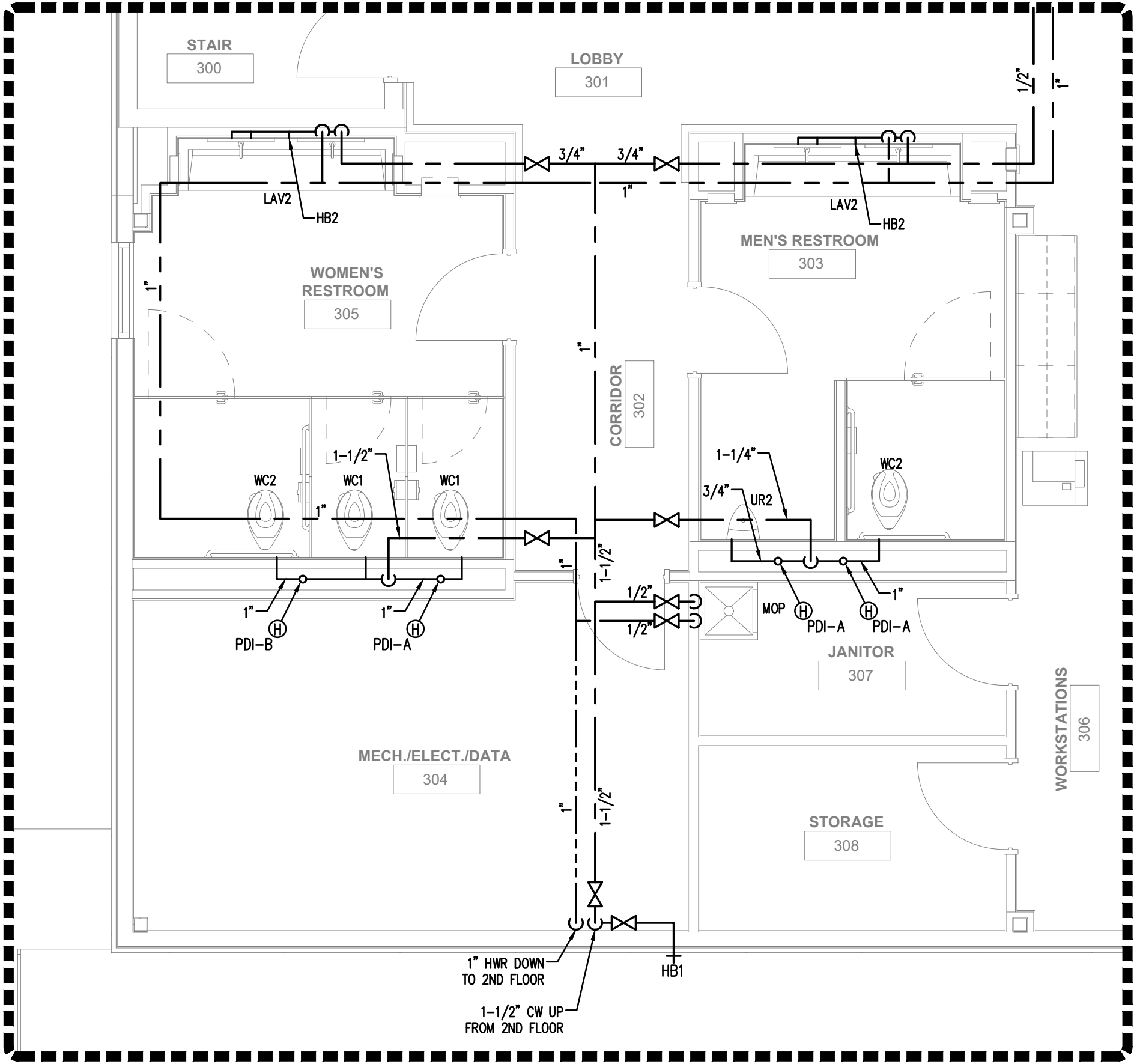
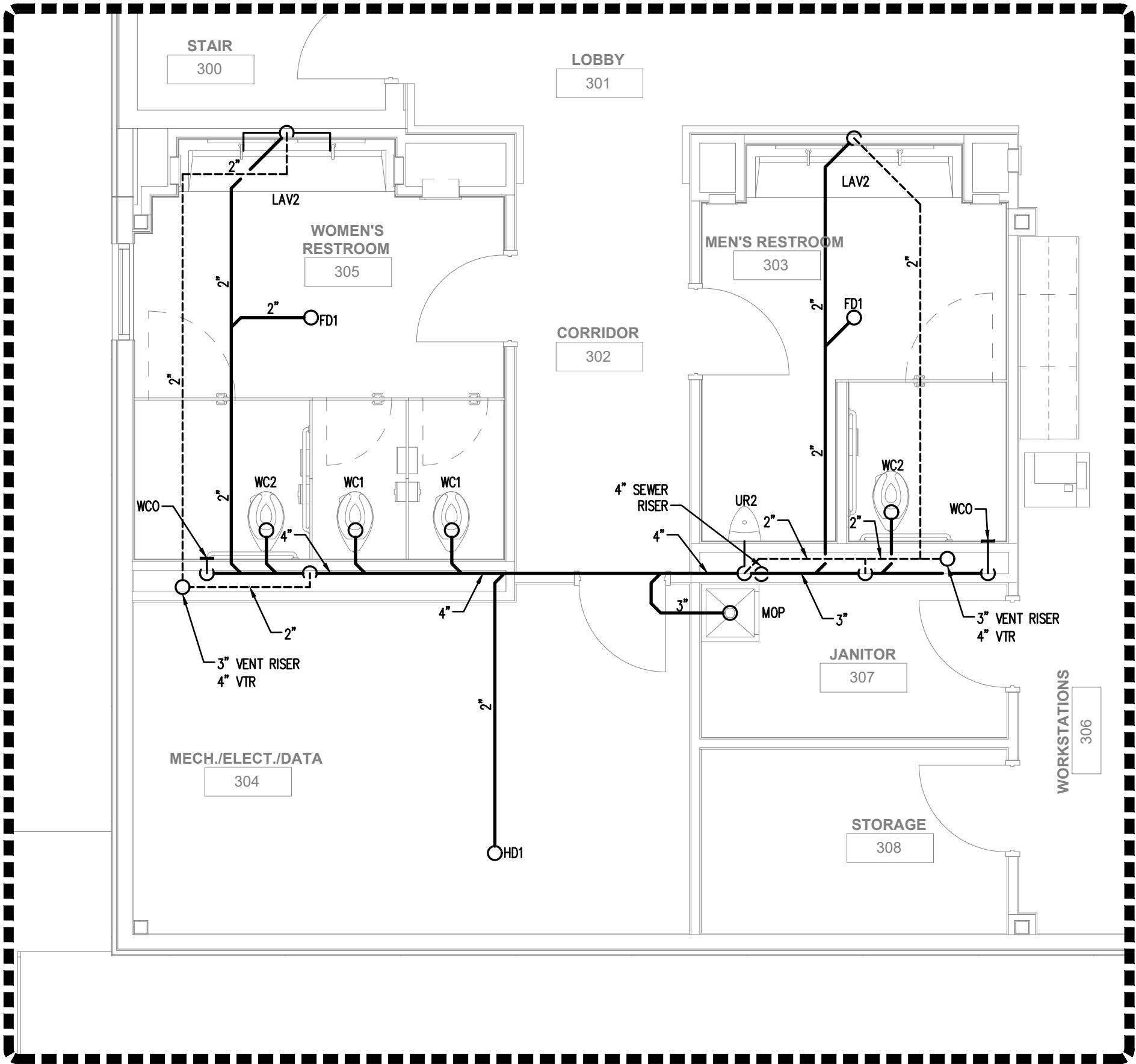
**2 SECOND FLOOR RESTROOMS PLUMBING PLAN - WATER**  
SCALE: 1/4"=1'-0"



**WATER HEATER (WH) PIPING SCHEMATIC**  
SCALE: N.T.S.



GENERAL NOTES:  
MODIFY EXISTING FIRE  
SPRINKLER SYSTEM TO  
CONFORM TO NEW  
BUILDING LAYOUT.



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**OFFICE RENOVATION FOR VILTIES  
HOLDINGS LLC**

4951 FORSYTH ROAD, MACON, GA 31210

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Sheet Title:  
THIRD FLOOR  
PLUMBING PLAN

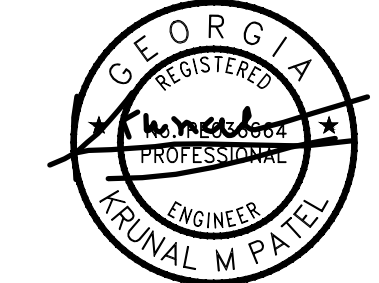
Project #: 2229      Date: 04/18/2025

**P3.1**



MECHANICAL SPECIFICATIONS

- 1) Provide all heating, ventilation and air conditioning items indicated on the drawings, described in this specification or required for a complete and proper installation.
- 2) Comply with all pertinent codes, ordinances and regulations. Refer to website for Dept. of community Affairs at for current Codes Editions.
- 3) The contractor shall not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearances. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or the actual building construction, shall be made at no additional cost to the owner.
- 4) Furnish without extra charge, any additional material and labor required to comply with the above codes and standards, even though the work may not be described in the contract documents. Where the requirements of the contract documents exceed the requirements of the above codes and standards, the contract documents shall take precedence.
- 5) All equipment and material shall be new and of first quality. Equipment and material shall be the same or fully equivalent to the basis of design listed on these drawings and shall be UL listed.
- 6) Cooperate and coordinate with other trades in order that all systems in the work may be installed in the best arrangement.
- 7) Examine the areas and conditions under which work of this section will be installed. Confirm conditions detrimental to the proper and timely completion of the work. Notify Architect of any discrepancies. Do not proceed until unsatisfactory conditions have been corrected.
- 8) Avoid interference with structure, and with work of other trades. Install all equipment per manufacturer's instructions. Install accessible parts, including equipment, coils, valves, dampers, controls, and filters with adequate clearance for inspection, adjustments, repair and replacement.
- 9) All other materials not specifically described but required for a complete and proper installation shall be as selected by the contractor subject to acceptance by the Engineer.
- 10) Ducts:
- 1) SECTION INCLUDES
- A. Metal ductwork.
- B. Flexible ducts.
- 2) REFERENCE STANDARDS
- SMACNA (DGS) – HVAC Duct Construction Standards – Metal and Flexible; Sheet Metal and Air Conditioning Contractors' National Association; 2005.
- 3) PERFORMANCE REQUIREMENTS
- A. No variation of duct configuration or sizes permitted except by written permission. Size round ducts installed in place of rectangular ducts in accordance with ASHRAE table of equivalent rectangular and round ducts.
- 4) DELIVERY, STORAGE, AND PROTECTION
- A. Store in clean dry place and protect from weather and construction traffic.
- B. Exercise care during construction to prevent the accumulation of dust, dirt, and refuse in the supply and return ductwork.
- C. All openings shall be tightly closed with 8-mil polyethylene when work creating dust and debris is in progress.
- 5) MATERIALS
- A. Galvanized Steel Ducts: Hot-dipped galvanized steel sheet, ASTM A 653/A 653M FS Type B, with 90/G275 coating.
- B. Steel Ducts: ASTM A 1008/A 1008M, Designation CS, cold-rolled commercial steel.
- C. Insulated Flexible Ducts:
1. Manufacturers:
- a. Alcoa Model UPC-036(R-6).
- b. Flexmaster Model Type 3(R-6).
- c. Thermatex Model M-ACR(R-6).
2. UL 181, Class 1, aluminum laminate and polyester film mechanically bonded without adhesive supported by helically wound spring steel wire; fiberglass insulation; polyethylene vapor barrier film.
- a. Insulation shall be 1 inch thick, minimum; 3/4 lbs./cu. ft., minimum
- b. Pressure Rating: 10 inches WG positive and 1.0 inches WG negative.
- c. Maximum Velocity: 4000 fpm.
- d. Temperature Range: -20 degrees F to 210 degrees F.
- e. 5'-0" Maximum length unless noted otherwise. Maximum individual band shall not exceed 45 degrees each. Support at five feet on centers with hangers having at least 2-inches of width at duct contact points. Flexible connectors shall not pass through any wall floor or ceiling weather rated or not. Provide 36-onches of metal duct at penetration of draft stops, fire walls and smoke walls.
- D. Joint Sealers and Sealants: Non-hardening, water resistant, mildew and mold resistant.
1. Type: Heavy mastic or liquid used alone or with tape, suitable for joint configuration and compatible with substrates, and recommended by manufacturer for pressure class of ducts.
2. Surface Burning Characteristics: Flame spread of zero, smoke developed of zero, when tested in accordance with ASTM E 84.
3. Manufacturers: Hardcoat Sure Grip 404, Marathon, Miracle D-618, MMM-800, Tuff-Bond No.29, United McGill United.
4. Non-hardening, water resistant, fire resistive, compatible with moting materials; liquid used alone or with tape, or heavy mastic.
- 6) DUCTWORK FABRICATION
- A. Fabricate and support in accordance with SMACNA HVAC Duct Construction Standards – Metal and Flexible, and as indicated. Provide duct material, gages, reinforcing, and sealing for operating pressures indicated. Install as shown and detailed.
- B. All dimensions are net inside metal measurements in inches unless otherwise shown.
- C. Duct sizes shown include allowance for liner thickness unless otherwise noted, except sizes shown for lined round spiral and flat oval duct are sizes of perforated inner liner
- D. Longitudinal seams for Rectangular Duct: Fig 2-2 L-1(Pittsburgh) or L-2(button punch snap lock) for corner seams. Do not use L-2 seam for ducts over 18 inches. Seal L-2 seams with duct sealant. Fig 2-2 L-3 seam for L-2 seam for corners other than corner.
- E. In all rectangular elbows and T's, provide turning vanes in accordance with Figs 4-3 and 4-4.
- F. Supply branch connections:
1. Low Pressure Rectangular Branch and Rectangular Diffuser Runouts: Fig 4-6, 45-degree entry with flange and gasket for connection to trunk with a minimum of six screws. Provide balancing damper with locking quadrant, except over in-accessible ceilings.
2. Low Pressure Round Runouts from Rectangular ducts: Manufactured fitting with 45-degree entry, flanged & gasket for connection to trunk with a minimum of six screws. Provide volume control damper with locking quadrant at branch connection in Ductwork Pressure Class 2 inch or less, unless over inaccessible ceiling (Refer to Grille Schedule on Drawings).
3. Branches from Medium Pressure Trunks: Conical tees (round and rectangular ducts). For branches less than 20% of the upstream volume, provide 45-degree entry branches, Figure 4-6, welded construction. For divisions greater than 20% of upstream volume, provide divided flow splitters, Fig 4-5, in rectangular ducts without volume dampers.
4. Medium Pressure Round runouts from round ducts: Manufactured conical tee fitting, conical tap, Fig 3-6; or 45-degree conical lateral fitting, Fig 3-5 as indicated on drawings.
5. Round runouts to diffusers from round duct: shall be manufactured fittings, conical tee fitting, conical tap, Fig 3-6; or 45-degree conical lateral fitting, Fig 3-5 as indicated on drawings.
6. Runout to SideWall Grille/Register: Fig 4-6, 45 Degree entry.
7. Volume Control Dampers: Provide volume control damper with locking quadrant at branch connection fitting for runout to diffuser, unless:
- a. Fitting is located over inaccessible ceiling. Provide neck mounted damper in all devices in inaccessible
- J. Return or exhaust duct branch connections:
1. Rectangular Branch: Fig 4-6, 45-degree entry with flange and gasket for connection to trunk with a minimum of six screws.
2. Concealed Round Runouts to Rectangular ducts: Manufactured fitting with 45-degree entry, flanged & gasket for connection to trunk with a minimum of six screws. Provide volume control damper with locking quadrant at branch connection in Ductwork Pressure Class 2 inch or less, unless over inaccessible ceiling (unless otherwise indicated).
3. Round runouts to round ducts: Manufactured 45-degree lateral fitting, Fig 3-5 or as indicated on drawings.
4. Runout to SideWall Grille/Register: Fig 4-6, 45 Degree entry.
5. Entry fittings: Construct for a 45-degree angle to ease the turbulence created by the converging airstream. Increase the minimum length shown in the SMACNA figure for 45-degree entry from 4 inch to 6 inch
6. Volume Control Dampers: Provide volume control damper with locking quadrant at branch connection fitting for runout to diffuser, unless fitting is located over inaccessible ceiling (Refer to Grille Schedule on Drawings for neck mounted volume dampers).
- K. Branch Duct Split: Fig 4-5 with volume control dampers.
- L. Transitions (unless otherwise noted): Fig 4-7; Changes in duct sizes shall be made by transitions. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible; maximum 30 degrees divergence upstream of equipment and 45 degrees convergence downstream. Transitions shall be provided between equipment and duct where sizes are not the same.
- 7) MEDUIM PRESSURE DUCTWORK AND FITTINGS (Spiral and Rectangular Duct)
- A. Manufactured or shop fabricated in accordance with SMACNA HVAC Duct Construction Standards – Metal and Flexible, and as indicated. Provide duct material, gages, reinforcing, and sealing for operating pressures as scheduled.
- 8) INSTALLATION
- A. Install in accordance with manufacturer's instructions.
- B. Duct sizes indicated are net metal sizes, except for medium pressure rectangular, flat oval and spiral ducts.
- C. Duct sizes for runouts to Air Terminals and grilles, registers and diffusers shall match the size of the device unless otherwise noted.
- D. Install and seal metal and flexible ducts in accordance with SMACNA HVAC Duct Construction Standards – Metal and Flexible.
- E. Locate ducts with sufficient space around equipment to allow normal operating and maintenance activities.
- F. Seal all transverse joints in metal supply, exhaust and return ducts.
- I. Connect diffusers to concealed low pressure ducts with 5 feet maximum length of flexible duct held in place with metal strap or clamp.
- J. Secure flexible ducts to metal ducts with adhesive (except at terminal unit connection) and drawband or clamp.
- 9) SCHEDULES
- A. Ductwork Material:
1. Low Pressure Supply: Galvanized Steel.
2. Medium Pressure Rectangular Duct: Galvanized steel, manufactured or shop fabricated, unless otherwise noted.
- B. Ductwork Pressure Class:
1. Supply System downstream of Terminal Units: (Low Pressure) 2 inches.
2. Supply System upstream of Air Terminal Units: (Medium Pressure) 6 inches with Class A seal.
3. Return and Relief: 2 inch positive and negative.
4. General Exhaust: 2-inch negative.
8. Outside Air Intake: 2 inches.
- 11) Indoor duct insulation: Foil-faced fiberglass, Owens Corning type 75 or equal, 2" thick, unless the insulated duct is outside building insulation envelope (attic, crawlspace or unconditioned space) in which case the duct insulation thickness shall be 3" thick. Duct insulation shall have a flame spread rating of not more than 25 and smoke developed rating of not more than 50. Glass-Fiber insulation: All service duct wrap with foil scrim jacket and k-value of 0.30 at 75° F mean temperature and an average maximum density of 0.75 lb./cu. ft.
- 12) Flexible duct: Flexmaster; Alcoa UPC36(R-6.0); Alcoa UPC31 (R-8) or Thermatex, Type 3, insulated. 5'-0" Maximum length unless noted otherwise. Class 1 rating with R-value of 6.0 when located inside building insulation envelope and R-8 when located outside building insulation envelope. Install with no more than 135 degrees maximum of total bends per run. Maximum individual bend shall not exceed 45 degrees each. Support at five feet on centers with hangers having at least 2-inches of width at duct contact points. Flexible connectors shall not pass through any wall floor or ceiling weather rated or not. Provide 36-onches of metal duct at penetration of draft stops, fire walls and smoke walls.
- 13) Duct Liner: Owens Corning Aeroflex Plus, or equivalent. Incombustible glass fiber complying with ASTM C 1071; flexible blanket; impregnated surface and edges coated with acrylic polymer seal to be fungus and bacteria resistant by testing to ASTM G 21. Apparent Thermal Conductivity: Maximum of 0.31 at 75 degrees F. Service Temperature: 250 degrees F. Density: 1.5 pounds/cubic foot. Install using adhesive (50% coverage) and galvanized steel fasteners with welded press-on head Thickness: 1-inch.
- 14) Condensate drain piping shall be ASTM D2665 PVC with solvent welded fittings. Drain piping shall be no smaller than the drain connection size on equipment. Slope at 1/8 inch per foot continuously toward drains. All indoor condensate drain piping shall be insulated with preformed flexible plastic cellular foam. All outdoor condensate drain piping shall be primed and painted with a coating system recommended by the piping manufacturer for protection against deterioration from weather and UV-light exposure. All piping shall be supported at 5ft on center spacing (PVC) and 10 ft. on center spacing for copper piping. Slope pipe continuously down at 1-inch per 10 ft. toward drain. Route interior drains as indicated. Route drains from rooftop units to roof drains (or sumpers) and support using OMC Roofing Products 'Pipe Guard' 'PGM-BK' or equivalent.
- 15) Install all equipment in accordance with manufacturer's instructions and recommendations including clearances recommended for proper operation or service. All filters and serviceable parts shall be readily available.
- 16) All supply, return and outside air ducts shall be insulated. Install acoustical duct liner on the interior surface of the supply duct downstream and the return duct upstream of all rooftop unit. Refer to drawing for starting and ending point of liner. Insulate the concealed tops of all ceiling mounted supply air diffusers. Insulation indoors shall be foil-faced fiberglass, 1.5 #/cubic foot density, 2" thick.
- 17) All low-pressure duct branches shall contain manual balancing dampers. Manual balancing dampers shall also be installed in the continuation of the main, if the main duct is smaller or the same size as the branch duct, or if the continuation of the main serves only one device.
- 18) Make all duct elbows right angle type with single -thickness turning vanes or construct with centerline radius 1-1/2 times the duct width.
- 19) Duct sizes shown on plans are clear, interior dimensions. Duct sizes shown have been enlarged to allow for liner at locations of interior liner.
- 20) Do not cut into or reduce the size of any structural member without the permission of the Architect.
- 21) Provide weather-proof flashing at all duct and pipe penetrations through the building walls and roof. As a minimum, flashings shall be designed and installed in accordance with SMACNA standards. Flashings shall be guaranteed weathertproof for the duration of the guarantee.
- 22) Support all HVAC units, ductwork, piping and other appurtenances from structure, provide vibration isolation at all fans. Do not screw or drive fasteners into non-structural components such as roof decks, gypsum board or non-load bearing walls.
- 23) Thoroughly clean all components and remove all dirt, scale, oil, and other foreign substances. Provide clean air filters for all equipment prior to turning system over to Owner.
- 24) Perform all tests necessary to demonstrate the integrity of the complete installation to the approval of the Engineer and all other authorities having jurisdiction. Make all adjustments necessary and balance the complete system in accordance with the data shown. Balance the systems in accordance with NEBB or AABC standards. Acceptable tolerances shall be minus ten percent to plus five percent of all measurements. Balancing shall be done by an independent licensed (by NEBB or AABC) TAB contractor. Make the following tests and submit reports to the Architect:
- a) Airflow rate at each supply, return and exhaust outlet or inlet.
- b) Total airflow rate and total static pressure of each supply and exhaust fan. Test exhaust fans with room doors closed.
- c) Motor speed, for multiple speed fans (if yes, high, medium, low).
- d) Outside airflow rate to each HVAC unit and supply fan.
- e) Motor current (and compare with nameplate data) at all motors.
- f) Entering and leaving air dry-bulb and wet-bulb conditions at all coils.
- g) Heat output capacity for unit heaters, heating devices and coils (kW or MBH).
- h) Manufacturer, model and serial number for each piece of HVAC equipment scheduled on drawings.
- i) Calibrate thermostats to be within one degree of actual temperature at thermostat.
- j) Verify that all HVAC devices operate as scheduled or indicated (i.e. ON-OFF, 2-stage, variable output (SCR heaters), etc.
- 25) The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. Compressors shall include a minimum of five (5) years warranty from the manufacturer. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.
- 26) SUBMITTAL PROCEDURES:
- a. Contractor shall review the submittal data and check for the purpose of compliance with safety requirements, verification of dimensions, contract documents and methods and means prior to submitting to design professional. Contractor shall indicate approval by indicating such on the submittal.
- b. Sequentially number submittal files and transmittal form. Revise submittals with original number and a sequential alphabetic suffix. File names shall describe item included in file.
- d. Identify Project, the Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy. Each file shall include an index of items included in file.
- e. Apply the Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
- f. Submittal data for all items in project shall be submitted at one time. Submittal shall be divided into groups with file sizes not exceeding 6 MB. If there is unavailable data such as control submittal, etc., these may be submitted later if not doing so would delay project progress. Data shall include capacities, complete installation instructions, dimensional data and electrical data, BHP, motor HP, operating weights and load distribution at mounting points.
- g. Deliver submittals electronically to the Design Professional.
- h. Schedule submittals to expedite the Project, and coordinate submission of related items.
- i. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
- j. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
- k. Provide space for the Contractor and the Architect/ review stamps.
- l. When revised for resubmission, identify all changes made since previous submission.
- m. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
- n. Submittals not requested will not be recognized or processed.
- o. Provide files containing only related items (such as piping, equipment, air distribution, etc.)
- 27) Instruct Owner's representative in the operation of the systems, using the operation and maintenance manual as a teaching aid.
- 28) Provide on operation and maintenance manual. As a minimum, the manual shall contain:
- A. A complete list of all equipment and appurtenances with equipment designations (per Drawings), manufacturers, and catalog numbers.
- B. Copies of manufacturers' brochures and instructions for operation and maintenance of all mechanical equipment, including replacement parts lists.
- C. List of system operation and maintenance instructions, including inspection, lubrication, and service instructions and schedules.
- D. Typed names, addresses and phone numbers of distributors of all equipment and appurtenances.
- E. Manufacturers' warranties.
- 29) Smoke Detectors: Provide a duct smoke detector on the supply duct of each air handling unit or rooftop unit with design airflow exceeding 2,000 CFM, and where smaller air handling units serve common areas and the sum of these air handling units' airflow exceeds 2,000 CFM. Install detector in accordance with the International Mechanical Code with Georgia Amendments. Detectors shall be provided by the electrical/fire alarm subcontractor and shall be installed by the mechanical subcontractor. Provide contacts to automatically shut down all such fan motors when smoke is detected, to indicate detector status to the fire alarm system, and to require a manual reset of the shut-down relay.
- 30) SINGLE DUCT VARIABLE VOLUME UNITS
- A. Manufacturers:
1. Titus DTSV.
2. Other acceptable manufacturers offering equivalent products: Anemostat VF-P4M, Buensod BTUO, Envirotech SDRWC, Krueger LMHS, Meta-Aire TH, EH Price, Trans VC, Tuttle&Bailey SDV, Nator Model 3001.
- B. Basic Assembly:
1. Casings: Minimum 22 gage galvanized steel.
2. Lining: Minimum 1/2-inch-thick neoprene or vinyl coated fibrous glass insulation, 1.5 lb./cu ft density, meeting NFPA 90A requirements and UL 181 erosion requirements.
- 31) FAN POWERED VARIABLE VOLUME UNITS
- A. Manufacturers:
1. Titus DTGS. Straight through design.
2. Other acceptable manufacturers offering equivalent products: Buensod GFD, Krueger DQFS, EH Price FPC/FEK, Tuttle&Bailey FPC, Nator 35P, Trans Model VP.
- B. Basic Assembly:
1. Casings: Minimum 22 gage galvanized steel.
2. Lining: Minimum 1/2-inch-thick neoprene or vinyl coated fibrous glass insulation, 1.5 lb./cu ft density, meeting NFPA 90A requirements and UL 181 erosion requirements.
3. Plenum Air Inlets: Round stub connections and S slip and drive connections for duct attachment.
4. Plenum Air Outlets: S slip and drive connections.
- C. Basic Unit:
1. Configuration: Air volume damper assembly and fan in series arrangement inside unit casing. Locate control components inside protective metal shroud.
2. Volume Damper: Construct of galvanized steel with peripheral gasket and self-lubricating bearings; maximum damper leakage: 2 percent of design air flow at 1-inch rated inlet static pressure.
3. Airflow Sensor: All terminals shall be equipped with a factory furnished and mounted multi-point, flow ring or cross arrangement inlet overcuring aluminum or stainless-steel sensor which will provide a differential pressure signal that represents actual air flow within an accuracy of +5% regardless of inlet configuration. This accuracy shall be maintained when inlet duct varies from straight up to 90 elbow entrance conditions for both flexible and rigid metal duct applications. Straight inlet duct shall not be required for specified occasy.
- D. Automatic Damper Operator:
1. Electric Actuator: Modulating 24 volt with high limit.
- E. Fan Assembly:
1. Speed Control: Infinitely adjustable with electric/pneumatic and electronic controls.
2. Isolation: Fan/motor assembly on rubber isolators.
3. Fan motor shall be ECM.
- F. Electric Heating Coil:
1. Construction: UL listed, slip-in type, open coil design, integral control box factory wired and installed, with:
- a. Primary and secondary over-temperature protection.
- b. Minimum airflow switch.
- G. Wiring:
1. Factory mount and wire controls. Mount electrical components in control box with removable cover. Incorporate single point electrical connection to power source.
2. Factory mount transformer for control voltage on electric and electronic control units. Provide terminal strip in control box for field wiring of thermostat and power source.
3. Wiring Terminations: Wire fan and controls to terminal strip. Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Enclose terminal lugs in terminal box sized to NFPA 70.
4. Disconnect Switch: Factory mount fused disconnect switch in control panel.
- H. Controller:
1. Digital: Factory mount DDC controller and damper actuator supplied by building automation control manufacturer within unit mounted enclosure.
- 32) Grilles, Registers and Diffusers: Grilles, registers, and diffusers as indicated on the drawings have been selected from the catalog of the manufacturer noted on the basis of design. Sizes, types, and performance of the devices to be provided must be coordinated to insure conformity with design basis. Sidewall supply grilles and registers shall have vertical front blades; sidewall return grilles shall have horizontal blades. Grilles and registers with borders shall have felt or rubber gaskets centered to the back face and holding screws not over 18 inches on centers around the perimeter. Holding screws shall be counter-sunk to fit flush with the register. Grilles posing air through partitions shall be as described for wall return grilles, one for each side of partition. Register dampers shall be of the gang-operated, opposed blade type, operated through the face of the register. Operating mechanism shall not project through the register face. Mounting frame shall be coordinated with architectural reflected ceiling plans. Construction shall be of steel or aluminum as scheduled, with frame type to match ceiling construction. Sidewall supply grilles and registers shall be double-deflection type, with vertical front vanes. Construction shall be of steel, with 3/4 inch blade spacing. Return air grilles, return air registers, exhaust grilles, exhaust registers and transfer air grilles located in ceilings shall be constructed of aluminum with "egg-crate" design, with 1/2 inch x 1/2 inch x 1/2 inch grids. Frame style shall be compatible with ceiling construction. Install wall grilles and registers with horizontal edges parallel to ceiling. Concentric diffuser assemblies at roof top units shall have paint-ready exterior finish and 1-inch lined supply and return ducts that transition to diffuser size within 24 inches vertically of the bottom of roof top unit curb.
- 33) Basic motor requirements: basic requirements apply to mechanical equipment motors, unless otherwise indicated. Motors 1/2 hp and larger: Polyphase. Motors smaller than 1/2 hp: single phase. Frequency ratings: 60Hz. Service factor: according to NEMA MG 1, general purpose continuous duty, design type "B". Enclosure: open drip-proof, unless otherwise indicated. Efficiency: motors shall have a higher efficiency rating than industry standard average motor as delineated in IEEE Standard 112, test method 13. Thermal protection: where indicated or required, internal protection automatically opens power supply circuit to motor when winding temperature exceeds a safe value calibrated to temperature rating of motor insulation. Thermal protection device automatically resets when motor temperature returns to normal range, unless otherwise indicated.
- 34) Hangers and supports: Building attachments: concrete inserts or structural-steel fasteners appropriate for building materials, and beam clamps. Hanger materials: galvanized, sheet steel or round, threaded steel rod. Hangers installed in corrosive atmospheres: electrogalvanized, all-thread rod or galvanized rods with threads painted after installation. Straps and rod sizes: comply with SMACNA's "HVAC Duct Construction Standards--Metal and Flexible" for sheet steel width and thickness and for steel rod diameters. Duct attachments: sheet metal screw, blind rivets, or self-cimping metal screws; compatible with duct materials. Trapeze and riser support galvanized steel shapes and plates: steel shapes complying with ASTM A 36/A 36M.
- 35) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of adhesive or mastic nature but includes tapes and combinations of open-weave fabric strips and mastics. Joint and seam tape: 2 inches wide; glass-fiber fabric reinforced. Joint and seam sealant: one-part, non-sag, solvent-release-curing, polymerized butyl sealant, formulated with a minimum of 75 percent solids. Flanged joint mastic: one-part, cold-curing, silicone, elastomeric joint sealants, complying with ASTM C 920, type S, grade NS, class 25, use 0.
- 36) Cabinet Exhaust Fan: Centrifugal Fan Unit: Direct driven with galvanized steel housing, resilient mounted motor, grovly backdraft damper in discharge. Disconnect Switch: Cord and plug in housing for thermal overload protected motor and wall mounted switch. Bottom of fan cabinet shall be removable for service to unit. Refer to Schedule on Drawings for additional specifications.
- 37) Electric Wall Mount Heater: Heater shall be UL listed and labelled with terminal box and cover, and built-in controls. Heater shall be made in three pieces consisting of back enclosure, heater assembly and front panel. Front panel shall be attached with concealed fasteners. Heating Elements: Nickel-chromium heating element, wire shall be encased in a steel or copper sheath. Aluminum fins shall be pressure bonded to the sheath. Enclosure: Enclosure shall be minimum 20-gauge painted steel for surface mounting. Front Panel: Bar grille type with down deflection toward floor. Finish shall be paint on steel bars. Grille shall be surrounded by decorative satin finished aluminum accent frame. Unit shall be fan forced type including fan motor, fan and controls with thermostat adjustment accessible through front grille. Unit shall also include thermal safety cutouts in the event of over temperature conditions. Refer to Schedule on Drawings for additional specifications.
- 38) Building Automation Controls (BAS) (RTU VAV Unit and Terminal Units):
- A. Manufacturers: Carrier I-View, JCI Metasys, Integrated Systems (Atlanta).
- B. Controls shall be DDC type with controller at each terminal unit, BoiLet over MS/TP protocol network, interface to RTU's built-in interface to provide time of day and temperature control for all components in system.
- C. Provide user interface to graphically display system and allow setpoint changes by user. Interface shall show component flow diagrams with feedback as to temperatures, air flow, variable speed drive speed (percent), space temperature, terminal unit status (Heat/Cool), terminal unit damper percentage, heating percentage for each terminal unit and operator status of each compressor, status of safety system.
- D. Graphics Package shall use HTML programming and operate using standard Internet browsers. Package shall be set up to communicate over Owner's network.
- E. All controllers shall communicate using BoiLet over MS/TP network protocol.
- F. Terminal unit controls: Terminal unit controls shall be integrated into the rooftop unit controls and shall provide a package for overall control of the entire system. These controls shall modulate the variable volume damper on the terminal units, electric heating coils (SCR modulated) and rooftop unit to maintain setpoint of room sensors for each terminal unit. Provide leaving air temperature sensors for each terminal unit. Locate sensors at least 3 feet downstream of terminal unit to avoid influence by radiant heat from heaters.
- G. Room sensors shall provide setpoint adjustment. Adjustment range of space sensors shall be limited to two degrees above or below room setpoint.
- 40) RTU-1 Unit Control Sequence (by BAS):
- A. Duct Static Pressure Control – Controlled by unit.
- B. Supply Air Temperature Control: When at least two terminal units are above cooling setpoint, BAS shall set rooftop unit to COOL mode. Unit controls shall control fan speed, economizer and compressor staging.
- C. Morning Warm-up: The BAS shall provide an optimized start to engage the supply air fan at preset time prior to occupancy. Outside air damper shall remain closed until system enters OCCUPIED mode. Terminal units shall provide heat via their internal heaters and controls.
- D. Heating and Cooling Setpoint Separation – Control differential shall be configured from default value of 2 degrees F, separation between the heating and cooling setpoints.
- E. Economizer Cooling Cycle – The VAV-RTU Controller shall control this function.
- F. Mechanical Cooling Cycle – Controlled by unit controller. BAS signals RTU to COOL mode.
- G. Integrated Cooling Cycle (Compressors and economizer) – Controlled by Unit Controller.
- H. Minimum Ventilation – Controlled by unit Controller. BAS sends signal as to when RTU is to open to minimum outside air.
- I. Unoccupied Heating: During un-occupied periods, BAS shall start unit fan and allow terminal units to operate in 'occupied' mode.
- J. Un-Occupied Cooling: BAS shall energize COOL mode during un-occupied periods if any of the terminal units indicates space is above 85 degrees (adjustable on graphics). During un-occupied periods, BAS shall start unit fan and allow RTU cooling and terminal units to operate in 'occupied' mode, except minimum OAD shall be closed. BAS shall de-energize RTU cooling when all space are below 82 degrees.
- 41) All HVAC equipment such as AH, CU, EF, AC, HP, and RTU shall have visible, engraved, nameplates with their associated marks on them. Identify units above ceiling with nameplate on ceiling grid (white background, black letters)



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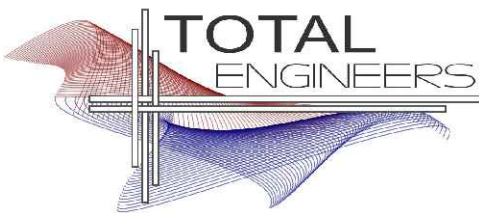
OFFICE RENOVATION FOR VILTIES HOLDINGS LLC

4951 FORSYTH ROAD, MACON, GA 31210

| Revisions: |  |
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Sheet Title:  
MECHANICAL SPECIFICATIONS

Project #: 2229 Date: 04/18/2025



169 New Street, Macon, GA 31201  
(478)741-4632 - T.E. project # 25-001  
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MECHANICAL SPECIFICATIONS(CONTINUED)

42) Refrigerant piping shall conform to manufacturer's recommendations and installation instructions. Refrigerant piping shall be ASTM B280 Type ACR or ASTM B88 Type L drawn copper tubing with wrought copper fittings. Insulate suction line with ½" thick flexible foamed plastic cellular foam (Armaflex or equivalent). All piping shall be adequately supported. Insulation installed outdoors shall be painted with two coats of Armacell MB coating or equivalent. Refrigerant pipes shall be installed in accordance with ASHRAE standard 15-2022 section 9.12 and shall be tested in accordance with ASHRAE standard 15-2022 section 9.13. Contractor shall issue a letter to design team stating that refrigerant pipes has been installed and tested under the referenced sections. Contractor shall refer to ASHRAE standard 15-2022 sections 9.10 and 9.11 for additional information regarding refrigerant piping. Penetration of refrigerant pipes shall be protected with a through penetration protection means. The through penetration protection shall be the same or higher rating than the assembly.

43) Thermostats (For ducted or Ductless Split): Provide 24 volt, programmable 24-hour, 7-day thermostat to control heating stages in sequence with delay between stages and supply fan to maintain temperature setting. For Heat Pumps include system selection switch heat-off-cool and fan control switch (auto-on), emergency heat switch (auxiliary/emergency heat indicator lights).

44) Vertical Air Handler unit: Indoor fan-coil unit shall be direct-expansion vertical heat pump air handler with electric strip heat mounted on plenum with auxiliary drip pan and condensate drain. Provide float switch in drip pan to shut down unit if pan begins to fill. Unit shall be complete with cooling coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Cabinet shall be fully insulated for improved thermal and acoustic performance. Condensate pan shall have integral drain and auxiliary drip pan under coil header. Provide condensate trap recommended by manufacturer. Air filters shall be 1-inch-thick glass fiber, disposable type arranged for easy replacement. Provide number of coil stages as scheduled. Provide condensate overflow switch (Rector seal Safe-T-Switch Model SS1 or equivalent) wired to shut unit down in case of condensate overflow.

45) Indoor, direct-expansion, wall-mounted fan coil. Unit shall be complete with cooling/heating coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Unit shall be furnished with integral wall mounting bracket and hardware. Cabinet and inlet grilles shall be attractively styled, high-impact polystyrene. Cabinet shall be fully insulated for improved thermal and acoustic performance. Fan shall be tangential direct-drive blower type with air intake at the top of the unit and discharge at the bottom front. Automatic, motor-driven vertical air sweep shall be provided standard. Air sweep operation shall be user selectable. The vertical sweep may be adjusted (using the remote control) and the horizontal air direction may be set manually. Coil shall be copper tube with aluminum fins and galvanized steel tube sheets. Fins shall be bonded to the tubes by mechanical expansion and golden hydrophilic pre-coated. A drip pan under the coil shall have a drain connection for hose attachment to remove condensate. Condensate pan shall have internal trap. Motors shall be open drip-proof, permanently lubricated ball bearing with inherent overload protection. Fan motors shall be 4-speed. Controls shall consist of a microprocessor-based control system which shall control space temperature, determine optimum fan speed, and run self-diagnostics. The temperature control range shall be from 62°F to 86°F (17°C to 30°C) in increments of 1°F or 1°C, and have 46°F Heating Mode (Heating Setback). The wireless or wired remote controller shall have the ability to act as the temperature sensing location for room comfort. Refer to schedule for preference on wired or wireless thermostat. The unit shall have the following functions as a minimum: An automatic restart after power failure at the same operating conditions as at failure. A timer functions to provide a minimum 24-hour timer cycle for system Auto Start/Stop. Temperature-sensing controls shall sense return air temperature. Indoor coil freeze protection. Wireless infrared remote control and/or wired remote control as scheduled to enter set points and operating conditions. Automatic air sweep control to provide on or off activation of air sweep louvers. Dehumidification mode shall provide increased latent removal capability by modulating system operation and set point temperature. Fan-only operation to provide room air circulation when no cooling is required. Diagnostics shall provide continuous checks of unit operation and warn of possible malfunctions. Error messages shall be displayed at the unit. Fan speed control shall be user-selectable: high, medium, low, or microprocessor controlled automatic operation during all operating modes. Automatic heating-to-cooling changeover in heat pump mode. Control shall include deadband to prevent rapid mode cycling between heating and cooling. Indoor coil high temperature protection shall be provided to detect excessive indoor discharge temperature when unit is in heat pump mode. Unit shall have filter track with factory-supplied cleanable filters. Indoor fan motor to operate on 115V on model size 12 and on 208-230V on model sizes 09-36, as specified. Power is supplied from the outdoor unit. All units should have refrigerant lines that can be oriented to connect from the left, right or back of unit. Both refrigerant lines need to be insulated. The condensate pump shall remove condensate from the drain pan when gravity drainage cannot be used. Pump shall be designed for quiet operation. Pump shall consist of two parts: an internal reservoir/sensor assembly, and a remote sound-shielded pump assembly. A liquid level sensor in the reservoir shall stop cooling operation if the liquid level in the reservoir is unacceptable. Refer to schedule for providing condensate pump. Only provide condensate pump were indicated on schedule.

46) Indoor, direct-expansion, ducted concealed fan coil. Unit shall be complete with cooling/heating coil, fan, fan motor, piping connectors, electrical controls, microprocessor control system, and integral temperature sensing. Cabinet shall be constructed of galvanized steel. Cabinet shall be fully insulated for improved thermal and acoustic performance. Fan shall be tangential direct-drive blower type with air intake at the rear or bottom of the unit and discharge at the front. coil shall be copper tube with aluminum fins and galvanized steel tube sheets. Fins shall be bonded to the tubes by mechanical expansion and especially golden hydrophilic pre-coated for enhanced wet-ability. A drip pan under the coil shall have a factory installed condensate pump and drain connection for hose attachment to remove condensate. Motors shall be open drip-proof, permanently lubricated ball bearing with inherent overload protection. Fan motors shall be 3-speed. Controls shall consist of a microprocessor-based control system which shall control space temperature, determine optimum fan speed, and run self-diagnostics. The temperature control range shall be from 62°F to 86°F (17°C to 30°C) in increments of 1°F or 1°C, and have 46°F Heating Mode (Heating Setback). The wireless remote controller shall have the ability to act as the temperature sensing location for room comfort. All units shall have refrigerant lines that can be oriented to connect from the side of the unit. Both refrigerant lines need to be insulated.

The unit shall have the following functions as a minimum:

1. An automatic restart after power failure at the same operating conditions as at failure.
2. A timer function to provide a minimum 24-hour timer cycle for system Auto Start/Stop.
3. Temperature-sensing controls shall sense return air temperature.
4. Indoor coil freeze protection.
5. Wireless infrared remote control and/or wired remote control to enter set points and operating conditions.
6. Dehumidification mode shall provide increased latent removal capability by modulating system operation and set point temperature.
7. Fan-only operation to provide room air circulation when no cooling is required.
8. Diagnostics shall provide continuous checks of unit operation and warn of possible malfunctions. Error messages shall be displayed at the unit.
9. Fan speed control shall be user-selectable: high, medium, low, or microprocessor controlled automatic operation during all operating modes.
10. Automatic heating-to-cooling changeover in heat pump mode. Control shall include dead band to prevent rapid mode cycling between heating and cooling.
11. Indoor coil high temperature protection shall be provided to detect excessive indoor discharge temperature when unit is in heat pump mode.

47) Small Split Condensing unit (HPU): Casing: House components in welded steel frame with galvanized steel panels with weather resistant, baked enamel finish. Mount contactors and controls in weatherproof panel provided with full opening access doors. Provide removable access doors or panels with quick fasteners. Compressor: Hermetically sealed, 3600 rpm maximum, resiliently mounted with positive lubrication and internal motor protection. Compressor: Hermetic reciprocating type or Hermetic scroll type. Condenser Coils: Aluminum fins mechanically bonded to seamless copper tubing or all aluminum fins and tube. Air test under water to 425 psig, and vacuum dehydrate. Seal with holding charge of refrigerant. Coil Guard: Louvered or PVC coat steel wire. Fans and motors: Direct driven propeller type condenser fans with fan guard on discharge. Weatherproof motors suitable for outdoor use, single phase permanent split capacitor with permanent lubricated ball bearings and built in thermal overload protection. Fan Guard: PVC coat steel wire. Refrigerant circuit: For each refrigerant circuit, provide: Filter dryer liquid line. Suction accumulator. Suction and liquid line service valves and gage ports. Charging valve. Condenser pressure relief mechanism. Factory wired with single point power connection. Factory wired controls shall include contactor, high- and low-pressure cutouts, internal winding thermostat for compressor, control circuit transformer, non-cycling reset relay. Provide a surge capacitor and lightning arrester in unit cabinet for protection from power surges due to lightning and switching transients. Provide controls to permit operation down to 0 degrees F ambient temperature were scheduled to include: Crankcase heater with thermostat. Head pressure switch to cycle fan motors in response to refrigerant condensing pressure. Solid state control to vary speed of one condenser fan motor in response to refrigerant condensing pressure. Refer to Schedule on Drawings for additional specifications.

48) Air Source Heat Pumps (HP): outdoor-mounted, air-cooled split system outdoor section suitable for rooftop installation, consisting of a hermetic compressor, an air-cooled coil, propeller-type blow-thru outdoor fans, accumulator, full refrigerant charge, and control box. Unit shall function as the outdoor component of an air-to air cooling system and used in a refrigeration circuit matched to the indoor unit. Unit construction shall comply with ANSI/ASHRAE 15, latest revision, the NEC, and UL standards. Provide rail support system compatible with roofing system. Refer to Schedule on Drawings for additional specifications.

49) Fire damper; curtain type with blades outside air stream except when located behind grilles when blades may be in air stream. Provide 1-1/2 hr class unless noted otherwise, vertical, or horizontal mounting as shown on drawings with re-placable, rated, fusible link. Duct-Mounted Access Doors: Provide access doors for access to fire or smoke dampers having fusible links, doors shall be pressure relief access doors; and shall be outward operation for access doors installed upstream from dampers and inward operation for access doors installed downstream from dampers adjacent to and close enough to fire or smoke dampers, to reset or reinstall fusible links. Fabricate access panels according to SMACNA's "HVAC Duct Construction Standards – Metal and Flexible"; Figures 2-10, "Duct Access Doors and Panels," and 2-11, "Access Panels – Round Duct."

50) Combination Fire and Smoke Dampers (FSD):

- a. Fabricate in accordance with UL 555 and UL 55s. Provide factory sleeve and collar for each damper.
- b. Blades and frame shall be constructed of 16 Gauge galvanized steel. damper shall have oil impregnated bronze or stainless-steel sleeve bearings, plated steel axles stainless steel jams, plated steel linkage, and stainless-steel closure spring and blade stops.
- c. Provide 120-volt UL listed actuator.
- d. Damper shall operate closed upon signal of smoke detection, testing, or power failure, with automatic reset to the open position. Damper shall automatically close with a controlled closure release device and lock when temperatures more than 165 F are detected.
- e. Manufacturers: Air Balance FS2250A, Greenheck FSD-22, Louvers and Dampers 770, Nallor-Hart 1270, National Controlled Air FSD-3V-57, Ruskin FSD36.

51) Roof fans shall be direct- or belt-driven centrifugal fans, as scheduled, consisting of housing, wheel, fan shaft, bearings, motor and non-fusible disconnect switch, drive assembly, curb base, and accessories. Removable housing of galvanized steel, mushroom-domed top; square, one-piece, aluminum base with venturi inlet cone. Removable 1/2-inch mesh bird screen. Counterbalanced, parallel-blade, backdraft damper mounted in curb base; factory set to close when fan stops (motorized with electric actuator when indicated on drawings). Provide roof curb of galvanized steel with mitered and welded corners, 1-1/2' rigid insulation.

52) BI-POLAR IONIZATION DESIGN & PERFORMANCE CRITERIA:

The Bi-polar Ionization system shall be capable of effectively killing microorganisms downstream of the bi-polar ionization equipment (mold, bacteria, virus, etc.). Controlling gas phase contaminants generated from human occupants, building structure and furnishings. Capable of reducing static space charges. Increasing the interior ion levels, both positive and negative, to a minimum of 800 ions/cm³ measured 5 feet from the floor. Self-cleaning requiring no maintenance or replacement parts. Producing a minimum of 160M ions/cc. The bi-polar ionization system shall operate in a manner such that equal amounts of positive and negative ions are produced. Uni-polar ion devices shall not be acceptable.

Velocity Profile: The air purification device shall not have maximum velocity profile.

Humidity: Plasma Generators shall not require preheat protection when the relative humidity of the entering air exceeds 85%. Relative humidity from 0 – 100%, condensing, shall not cause damage, deterioration, or dangerous conditions within the air purification system. Air purification system shall be capable of wash down duty.

Equipment Requirements: Electrode Specifications (Bi-polar Ionization): Each Plasma Generator with Bi-polar Ionization output shall include the required number of electrodes and power generators sized to the air handling equipment capacity. A minimum of one electrode pair per 2,400 CFM of air flow shall be provided. Bi-polar ionization tubes manufactured of glass and steel mesh shall not be acceptable due to replacement requirements, maintenance, performance output reduction over time, ozone production and corrosion. Electrodes shall be energized when the main unit disconnect is turned on and the fan is operating. Electrodes shall be made from carbon fiber to prevent oxidation over time. Internal circuitry shall be provided to sense air flow across the electrode output. Ionization systems requiring the use of a mechanical air pressure switch to cycle the electrodes only when the fan is operating shall not be acceptable due to high failure rates and pressure sensitivity. Electrode pair shall provide a minimum of 160 million ions per cubic centimeter as measured at 2 inches, both positive and negative ions, in equal quantities. Devices providing less than 160 million ions/cc per electrode pair shall not be acceptable. Each Plasma Generator shall be provided with a self-cleaning system that is field programmable to change the number of days between the cleaning cycle. Systems without a no-maintenance, self-cleaning system shall not be acceptable. Each electrode pair shall be designed with a banana style plug such that it can be field replaced, if necessary. Each Plasma Generator shall be provided with an inline on/off switch, universal voltage input (24VAC to 240VAC or DC), magnets for mounting to the fan inlet, replaceable carbon fiber emitters and a programmable self-cleaning system.

Air Handler & Plenum Mounted Units (non-ductless mini-split units): Where so indicated on the plans and/or schedules Plasma Generator(s) shall be supplied and installed. The mechanical contractor shall mount the Plasma Generator and wire it to the AHU control power (24VAC) as instructed by the Air Purification Manufacturer's instructions or line voltage subject to power available. Each unit shall be designed with a molded casing, self-cleaning system, self-cleaning test button, power status LED and dry contacts to prove ion output is operating properly. The dry contacts shall close to prove the ion generator is working properly and may be daisy chained in series such that only one dry contact per AHU is required to interface to the BAS or the optional DDC controller. Dry contacts proving power has been applied in lieu of the ion output is operating, are not acceptable. Manufacturers providing multiple ion modules that have alarm status wired in parallel, and not in series, shall not be acceptable.

Ionization Requirements: Plasma Generators with Bi-polar ionization output shall be capable of controlling gas phase contaminants and shall be provided for all equipment listed above.

The Bi-polar Ionization system shall consist of Bi-Polar Plasma Generator and integral power supply. The Bi-polar system shall be installed where indicated on the plans or specified to be installed. The device shall be capable of being powered by 24VAC to 240VAC without the use of an external transformer. Ionization systems requiring isolation transformers shall not be acceptable.

Ionization Output: The ionization output shall be controlled such that an equal number of positive and negative ions are produced. Imbalanced levels shall not be acceptable.

Ionization output from each electrode shall be a minimum of 160 million ions/cc when tested at 2' from the ionization generator.

All manufacturers shall provide documentation by an independent NELAC accredited laboratory that proves the product has minimum kill rates for the pathogens given the allotted time and in a space condition:

Ozone Generation: The operation of the electrodes or Bi-polar ionization units shall conform to UL 867-2007 with respect to ozone generation. There shall be no ozone generation during any operating condition, with or without airflow.

Control Requirements: All Plasma Generators shall have internal short circuit protection, overload protection, and automatic fault reset circuit breakers. Systems with manual fuses shall not be allowed. Integral airflow sensing shall modulate the Plasma output as the airflow varies or stops. A mechanical airflow switch shall not be acceptable to activate the Plasma device due to high failure rates and possible pressure reversal. The installing contractor shall mount and wire the Plasma device within the air handling unit specified or as shown or the plans. The contractor shall follow all manufacturer IOM instructions during installation. All Plasma devices shall have a means to interface with the BAS system. Dry contacts shall be provided to prove there are ions being produced. Systems providing indication that power is applied to the Plasma device, but not directly sensing the power at the ion output, shall not be acceptable.

53) Acceptable Manufacturers are:

|  |  |
|--|--|
| Air Handlers & Heat Pumps, Packaged Units: | Carrier, Trane, York, JCI  |
| Small Split Units:                         | Mitsubishi, Daikin, Hitachi, Toshiba   |
| Grilles, Registers & Diffusers:            | Titus, Nallor, Price, Tuttle & Bailey, Metal Aire (Color selection to Architect)     |
| Fans:                                      | Twinn-City, Cook, Greenheck, Penn Barry, Acme, American Cool Air, Captive Air        |
| Electric Heaters:                          | Markel, Q-Mark, Raywall, Indica  |
| Louvers/Dampers/Fire Dampers:              | United Enertech, Greenheck, Arrow United, Air Balance (Color selection to Architect) |
| Controls-VAV:                              | Carrier I-View, JCI Metasys, Integrated Systems (Atlanta)                            |



COMcheck Software Version 4.1.5.5

## Mechanical Compliance Certificate

### Project Information

|                |  |
|----------------|--|
| Energy Code:   | 2015 IECC                                  |
| Project Title: | OFFICE RENOVATION FOR VILTIES HOLDINGS LLC |
| Location:      | Macon, Georgia                             |
| Climate Zone:  | 3a   |
| Project Type:  | Alteration                                 |

|                    |                      |                      |
|--------------------|----------------------|----------------------|
| Construction Site: | Owner/Agent:         | Designer/Contractor: |
| 4951 FORSYTH ROAD  | VILTIES HOLDINGS LLC | KRUNAL PATEL         |
| MACON, GA 31210    |                      | 169 NEW ST           |
|                    |                      | MACON, GA 31201      |

### Mechanical Systems List

#### Quantity System Type & Description

|   |   |
|---|---|
| 1 | RTU-1 (Multiple-Zone):<br>Cooling: 1 each - Other, Capacity = 300 kBtu/h, Air-Cooled Condenser, Air Economizer<br>No minimum efficiency requirement applies<br>Fan System: None   |
| 1 | RTU-2 (Multiple-Zone):<br>Cooling: 1 each - Other, Capacity = 420 kBtu/h, Air-Cooled Condenser, Air Economizer<br>No minimum efficiency requirement applies<br>Fan System: None   |
| 1 | RTU-3 (Single-Zone):<br>Heating: 1 each - Unit Heater, Electric, Capacity = 48 kBtu/h<br>No minimum efficiency requirement applies<br>Cooling: 1 each - Single Package DX Unit, Capacity = 48 kBtu/h, Air-Cooled Condenser, Air Economizer<br>Proposed Efficiency = 17.20 SEER, Required Efficiency: 14.00 SEER<br>Fan System: None |
| 2 | HP-1 & HP-2 (Single-Zone):<br>Split System Heat Pump<br>Heating Mode: Capacity = 36 kBtu/h<br>Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF<br>Cooling Mode: Capacity = 36 kBtu/h<br>Proposed Efficiency = 16.50 SEER, Required Efficiency: 14.00 SEER<br>Fan System: None                                       |
| 1 | HP-3 (Single-Zone):<br>Split System Heat Pump<br>Heating Mode: Capacity = 54 kBtu/h<br>Proposed Efficiency = 8.50 HSPF, Required Efficiency = 8.20 HSPF<br>Cooling Mode: Capacity = 54 kBtu/h<br>Proposed Efficiency = 17.50 SEER, Required Efficiency: 14.00 SEER<br>Fan System: None  |
| 1 | HPU-1 (Single-Zone):<br>Split System Heat Pump<br>Heating Mode: Capacity = 24 kBtu/h<br>Proposed Efficiency = 9.60 HSPF, Required Efficiency = 8.20 HSPF<br>Cooling Mode: Capacity = 24 kBtu/h<br>Proposed Efficiency = 19.50 SEER, Required Efficiency: 14.00 SEER<br>Fan System: None   |

Project Title: OFFICE RENOVATION FOR VILTIES HOLDINGS LLC Report date: 03/13/25

#### Quantity System Type & Description

|   |  |
|---|--|
| 1 | HPU-2 (Single-Zone):<br>Split System Heat Pump<br>Heating Mode: Capacity = 36 kBtu/h<br>Proposed Efficiency = 11.50 HSPF, Required Efficiency = 8.20 HSPF<br>Cooling Mode: Capacity = 36 kBtu/h<br>Proposed Efficiency = 16.50 SEER, Required Efficiency: 14.00 SEER<br>Fan System: None |
| 1 | HPU-3 (Single-Zone):<br>Split System Heat Pump<br>Heating Mode: Capacity = 18 kBtu/h<br>Proposed Efficiency = 9.60 HSPF, Required Efficiency = 8.20 HSPF<br>Cooling Mode: Capacity = 18 kBtu/h<br>Proposed Efficiency = 19.50 SEER, Required Efficiency: 14.00 SEER<br>Fan System: None  |
| 1 | WH:<br>Electric Storage Water Heater, Capacity: 120 gallons w/ Circulation Pump<br>Proposed Efficiency: 0.53 SL, %/h (if > 12 kW), Required Efficiency: 0.53 SL, %/h (if > 12 kW)  |

### Mechanical Compliance Statement

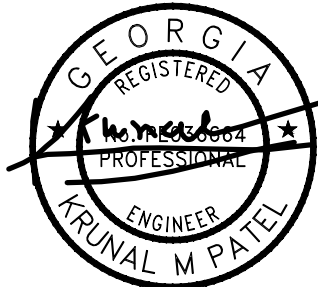
Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck-Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

KRUNAL M. PATEL-MECH. ENGINEER  
Name - Title Signature Date 3-13-25

Project Title: OFFICE RENOVATION FOR VILTIES HOLDINGS LLC Report date: 03/13/25

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COMCHECK COMPLIANCE CERTIFICATE  
SCALE: N.T.S.



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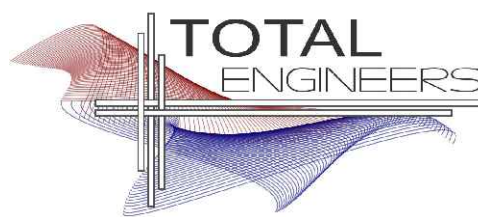
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HOLDINGS LLC

4951 FORSYTH ROAD, MACON, GA 31210

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Sheet Title:  
MECHANICAL  
SPECIFICATIONS

Project #: 2229 Date: 04/18/2025



169 New Street, Macon, GA 31201  
(478)741-4632 - T.E. project # 25-001  
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| ELECTRIC CABINET HEATER SCHEDULE   |           |          |                 |       |  |
|--|-----------|----------|-----------------|-------|--|
| MARK   | HEATER KW | VOLTS/PH | BASIS OF DESIGN | NOTES |  |
| EW1-1  | 4.0       | 208/1    | Q-MARK AWH4408  | 1:2:3 |  |
| EW1-2  | 4.0       | 208/1    | Q-MARK AWH4408  | 1:3:4 |  |
| EW1-3  | 4.0       | 208/1    | Q-MARK AWH4408  | 1:3:4 |  |
| EW1-4  | 4.0       | 208/1    | Q-MARK AWH4408  | 1:3:4 |  |
| EW1-5  | 4.0       | 208/1    | Q-MARK AWH4408  | 1:2:3 |  |
|  |           |          |                 |       |  |
| 1. MOUNT UNIT HEATERS AT 8" AFT.<br>2. VERTICAL WALL MOUNTED EXPOSED HEATER.<br>3. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.<br>4. VERTICAL WALL MOUNTED FULLY RECESSED HEATER. |           |          |                 |       |  |

| GRAVITY VENTILATOR SCHEDULE          |         |            |                      |        |                  |
|--------------------------------------|---------|------------|----------------------|--------|------------------|
| UNIT MARK                            | SERVICE | SUPPLY CFM | MIN THROAT AREA (SF) | THROAT | GREENHECK MODEL# |
| GV-1                                 | EXHAUST | 300        | 0.57                 | 10"ø   | GRSR 10          |
| 1. SPUN ALUMINUM GRAVITY VENTILATOR. |         |            |                      |        |                  |

| TERMINAL UNIT SCHEDULE  |            |          |          |                      |         |               |         |
|---|------------|----------|----------|----------------------|---------|---------------|---------|
| MARK  | TITUS SIZE | MAX. CFM | MIN. CFM | MIN. INLET DUCT SIZE | COIL KW | MIN. # STAGES | VOLTAGE |
| VAV-1-1   | 8          | 370      | 125      | 8                    | 1.5     | SCR           | 208/3   |
| VAV-1-2   | 6          | 245      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-1-3   | 6          | 270      | 125      | 6                    | 1.5     | SCR           | 208/3   |
| VAV-1-4   | 6          | 250      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-1-5   | 4          | 145      | 110      | 4                    | 1.0     | SCR           | 208/3   |
| VAV-1-6   | 6          | 150      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-1-7   | 8          | 350      | 110      | 8                    | 1.0     | SCR           | 208/3   |
| VAV-1-8   | 12         | 1,265    | 380      | 12                   | 3.5     | SCR           | 208/3   |
| VAV-1-9   | 8          | 600      | 220      | 8                    | 2.5     | SCR           | 208/3   |
| VAV-1-10  | 8          | 555      | 230      | 8                    | 2.5     | SCR           | 208/3   |
| VAV-1-11  | 10         | 805      | 250      | 10                   | 3.0     | SCR           | 208/3   |
| VAV-1-12  | 6          | 230      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-1-13  | 8          | 435      | 135      | 8                    | 1.5     | SCR           | 208/3   |
| VAV-1-14  | 6          | 250      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-1-15  | 12         | 980      | 295      | 12                   | 3.0     | SCR           | 208/3   |
| VAV-1-16  | 8          | 350      | 110      | 8                    | 1.0     | SCR           | 208/3   |
| VAV-1-17  | 6          | 185      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-1-18  | 12         | 990      | 300      | 12                   | 3.5     | SCR           | 208/3   |
| VAV-1-19  | 10         | 755      | 255      | 10                   | 3.0     | SCR           | 208/3   |
| VAV-1-20  | 8          | 475      | 145      | 8                    | 1.5     | SCR           | 208/3   |
| VAV-1-21  | 6          | 215      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-1-22  | 6          | 265      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-2-1   | 8          | 445      | 165      | 8                    | 2.0     | SCR           | 208/3   |
| VAV-2-2   | 6          | 245      | 125      | 6                    | 1.5     | SCR           | 208/3   |
| VAV-2-3   | 10         | 860      | 260      | 10                   | 2.5     | SCR           | 208/3   |
| VAV-2-4   | 8          | 555      | 215      | 8                    | 2.5     | SCR           | 208/3   |
| VAV-2-5   | 8          | 445      | 175      | 8                    | 2.0     | SCR           | 208/3   |
| VAV-2-6   | 12         | 1,200    | 360      | 12                   | 3.5     | SCR           | 208/3   |
| VAV-2-7   | 6          | 245      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-2-8   | 8          | 540      | 165      | 8                    | 1.5     | SCR           | 208/3   |
| VAV-2-9   | 14         | 1,850    | 555      | 14                   | 6.5     | SCR           | 208/3   |
| VAV-2-10  | 8          | 600      | 235      | 8                    | 3.0     | SCR           | 208/3   |
| VAV-2-11  | 6          | 170      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-2-12  | 8          | 350      | 110      | 8                    | 1.0     | SCR           | 208/3   |
| VAV-2-13  | 12         | 1,200    | 360      | 12                   | 4.0     | SCR           | 208/3   |
| VAV-2-14  | 14         | 1,600    | 480      | 14                   | 4.5     | SCR           | 208/3   |
| VAV-2-15  | 6          | 150      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-2-16  | 6          | 240      | 110      | 6                    | 1.0     | SCR           | 208/3   |
| VAV-2-17  | 10         | 705      | 215      | 10                   | 2.5     | SCR           | 208/3   |
| NOTE: CONTRACTOR MUST COORDINATE VOLTAGE REQUIREMENT FOR ELECTRIC HEATERS BEFORE ORDERING TERMINAL UNITS. |            |          |          |                      |         |               |         |

| FAN SCHEDULE   |      |                 |            |              |         |            |             |                    |                         |
|--|------|-----------------|------------|--------------|---------|------------|-------------|--------------------|-------------------------|
| MARK   | CFM  | EXT. SP IN W.G. | DRIVE TYPE | MOTOR (HP/W) | FAN RPM | MAX. SONES | POWER/PHASE | BASIS OF DESIGN    | SERVES                  |
| EF-1   | 370  | 0.45            | DIRECT     | 1/10 HP      | 1395    | 6.2        | 115/1       | GREENHECK G-090-VG | 1ST FLOOR FRONT TOILETS |
| EF-2   | 1110 | 0.45            | DIRECT     | 1/4 HP       | 1555    | 9.3        | 115/1       | GREENHECK G-100-VG | 1ST & 2ND FLOOR TOILETS |
| EF-3   | 480  | 0.60            | DIRECT     | 240.0 W      | 1345    | 1.5        | 115/1       | GREENHECK CSP-A780 | THIRD FLOOR TOILETS     |
| 1. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.<br>2. PROVIDE FACTORY SOLID STATE FAN SPEED CONTROLLER, MOUNTING BRACKETS AND VIBRATION ISOLATION.<br>3. DIRECT DRIVE CENTRIFUGAL CABINET FAN, PROVIDE FACTORY SUPPLIED DISCONNECT, BACK DRAFT DAMPER AND MOTOR WITH THERMAL OVERLOAD.<br>4. FAN SHALL BE CONTROLLED BY A 24/7 365-DAY TIME CLOCK LOCATED AT 220 VOLTAGE.<br>5. TIME CLOCK PROVIDED AND INSTALLED BY ELECTRICAL.<br>6. DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN, PROVIDE VAR-GREEN EC MOTOR WITH DIAL FOR BALANCING.<br>7. ORVIDE CURB, NEMA-1 SWITCH, JUNCTION BOX MOUNTED & WIRED, BIRD SCREEN, BACK DRAFT DAMPER AND COMPOSITE WHEEL MATERIAL. |      |                 |            |              |         |            |             |                    |                         |

| CONSTANT VOLUME PACKAGED ROOFTOP UNIT SCHEDULE   |          |                |                     |                  |              |   |  |  |                                    |                             |                     |              |                                    |
|--|----------|----------------|---------------------|------------------|--------------|---|--|--|------------------------------------|-----------------------------|---------------------|--------------|------------------------------------|
| MARK   | AIRFLOW  | SUPPLY AIR CFM | MIN OUTSIDE AIR CFM | EXT. SP IN. W.G. | NOMINAL TONS | EVAP. COIL ENTERING AIR DESIGN CONDITIONS DB F° WB F° | EVAP. COIL LEAVING AIR DESIGN CONDITIONS DB F° WB F° | SYSTEM COOLING MAX. REQUIREMENTS (MBH) | OUTSIDE AIR TEMP. CONDITIONS DB F° | HEAT PUMP HEATING CAP.(MBH) | ELEC. HEAT KW@208/3 | POWER VAC/PH | NOTES                              |
| RTU-3  | VERTICAL | 1400           | 200                 | 0.55             | 4.0          | 77.6  | 64.7   | 48.0                                   | 95                                 | ---                         | 7.90                | 208/3        | 50GEEN09M2A5-880A0 850 1:2:3:4:5:6 |
| 1. PROVIDE FILTERS, CURB, CONDENSATE TRAP AND PIPING, FLEXIBLE CONNECTIONS, THRU THE BOTTOM CONNECTIONS, PROGRAMMABLE T-STAT, AND CONDENSATE P-TRAP TO DISCHARGE INTO ROOF DRAIN.<br>2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION. VERTICAL SUPPLY VERTICAL RETURN UNIT.<br>3. TWO STAGE COOLING UNIT PROVIDE 2 SPEED ECM (ECO BLUE) FAN MOTOR. PROVIDE DRY BULB ECONOMIZER AND BAROMETRIC RELIEF HOOD.<br>4. PROVIDE MANUFACTURER'S 24/7 365 DAY PROGRAMMABLE THERMOSTAT.<br>5. PROVIDE MANUFACTURER'S SUPPLY AIR SMOKE DETECTOR. ELECTRICAL SHALL INTERLOCK SMOKE DETECTOR WITH BUILDING FIRE ALARM SYSTEM PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE OVERFLOW SWITCH.<br>6. PROVIDE MANUFACTURER'S HOT GAS REHEAT(HUMIDIFIER) COIL, CONDENSATE OVERFLOW SWITCH, AND MEDIUM STATIC MOTOR.. |          |                |                     |                  |              |   |  |  |                                    |                             |                     |              |                                    |

| SELF-CLEANING IONIZATION SYSTEM SCHEDULE   |   |           |
|--|---|-----------|
| AIRFLOW CAPACITY MIN-MAX CFM   | BASIS OF DESIGN GLOBAL PLASMA SOLUTIONS | NOTES     |
| 0-2400   | GPS-FC24-AC                             | 1:2:3:4:5 |
| 0-1200   | GPS-FC                                  | 1:4:7:8   |
| 1. ONE SELF CLEANING IONIZATION SYSTEM SHALL BE INSTALLED PER SYSTEM(AH/AOU). INTERLOCK TO RUN WITH EVAPORATOR FAN.<br>2. UNIT SHALL BE EQUIPPED WITH UNIVERSAL VOLTAGE INPUT, IN-LINE ON-OFF SWITCH, PROGRAMMABLE AUTO-CLEANING CYCLE.<br>3. UNIT SHALL BE EQUIPPED WITH PLASMA ON INDICATION LIGHT, ALARM CONTACTS, MAGNETS, AND CARBON FIBER BRUSH EMITTERS.<br>4. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.<br>5. USE THIS SYSTEM FOR UP TO 5-TON AIR HANDLING UNITS.<br>6. NOT USED.<br>7. SYSTEM SHALL BE USED FOR DUCTLESS MINI SPLITS.<br>8. SYSTEM SHALL BE EQUIPPED WITH CARBON FIBER BRUSHES AND LED OPERATION STATUS. |   |           |

| TERMINAL UNITS SELF-CLEANING IONIZATION SYSTEM SCHEDULE   |   |             |
|---|---|-------------|
| AIRFLOW CAPACITY MIN-MAX CFM  | BASIS OF DESIGN GLOBAL PLASMA SOLUTIONS | NOTES       |
| IONIZATION UNIT   | DEDICATED POWER SUPPLY UNIT             |             |
| 0-2400  | DM-2 PS-2                               | 1:2:3:4:5:9 |
| 1. ONE SELF CLEANING IONIZATION SYSTEM SHALL BE INSTALLED PER TERMINAL UNIT(TU) AND FAN POWER BOX(PF).<br>2. UNIT SHALL BE POWERED FROM TU/FP BOX SERVING UNIT DESIGNED TO USE ON DUCTS.<br>3. UNIT SHALL BE MOUNTED IN DUCT DOWNSTREAM OF TU/FP BOX.<br>4. TOTAL POWER CONSUMPTION LOW POWER SUPPLY SHALL BE 24VDC AT 277/1.<br>5. UNIT SIZED FOR 0-2 POWER INPUT CABLE UNIT SHALL BE DESIGNED TO USE FOR PLENUM SPACES.<br>6. ONE SELF CLEANING IONIZATION SYSTEM SHALL BE INSTALLED PER DUCTLESS MINI SPLIT UNIT.<br>7. POWER SUPPLY UNIT SHALL BE COMPLIED WITH UL 1310 AND UL 2043.IONIZATION UNIT SHALL COMPLY WITH UL867,UL2998 AND CARD<br>8. SYSTEM SHALL BE EQUIPPED WITH CARBON FIBER BRUSHES AND LED OPERATION STATUS.<br>9. PROVIDE MULTI-VOLTAGE INPUT, SELF CLEANING-CYCLE, OPERATION STATUS DISPLAY, AND INTEGRAL BUILDING AUTOMATION SYSTEM ALARM CONTACTS.<br>10. PROVIDE QUICK TURN DUCT ADAPTER, HOLE FOR 1/2" TRADE CONDUIT FITTING AND CARBON FIBER BRUSH EMITTERS. |   |             |

| MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND |   |
|---|---|
|   | NEW PIPE, DUCTWORK OR EQUIPMENT   |
|   | DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN  |
|   | FLEXIBLE ROUND DUCTWORK   |
|   | FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR   |
|   | CEILING SUPPLY DIFFUSER   |
|   | CEILING RETURN OR EXHAUST AIR   |
|   | S.A DUCT OUT OF TU BOX WITH DUCT LINER FOR THR FIRST FIVE FEET OF DUCT OUT OF TU BOX  |
|   | SIDEWALL REGISTER OR GRILLE   |
|   | CHANGE IN PIPE OR DUCT SIZE OR SHAPE  |
|   | REFRIGERANT PIPING  |
|   | CONDENSATE OR OTHER DRAIN PIPING  |
|   | ELBOW TURNED DOWN OR TURNED UP IN PIPING  |
|   | THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH   |
|   | TIME CLOCK  |
|   | DIAMETER  |
|   | UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED  |
|   | INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER   |
|   | ITEM IN HEXAGON SHOWS AIR DEVICE MARK NUMBER, ITEM ABOVE LINE SHOWS NECK SIZE, ITEM BELOW LINE SHOWS AIR FLOW THROUGH DEVICE, AND NUMBER IN FRONT SHOWS QUANTITY IF MORE THAN ONE |
|   | ABOVE FINISHED FLOOR  |
|   | AIR HANDLING UNIT   |
|   | BYPASS DAMPER   |
|   | BTUH, MBH   |
|   | CAPACITY  |
|   | CUBIC FEET PER MINUTE   |
|   | CEILING   |
|   | CONDENSING UNIT   |
|   | DRY BULB TEMPERATURE, WET BULB TEMPERATURE  |
|   | EXHAUST AIR, EXHAUST GRILLE   |
|   | EXHAUST FAN   |
|   | EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)   |
|   | HEAT PUMP UNIT  |
|   | MANUAL VOLUME DAMPER  |
|   | OUTSIDE AIR   |
|   | RETURN AIR, RETURN GRILLE   |
|   | PACKAGED ROOFTOP UNIT   |
|   | SUPPLY AIR  |
|   | VOLTS ALTERNATING CURRENT, NUMBER OF PHASES   |
|   | WATTS, KILOWATTS  |
|   | UNIT HEATER   |
|   | AUDIBLE/VISUAL ALARM DEVICE CONNECTED TO DUCT SMOKE DETECTOR  |
|   | ACCESS DOOR   |
|   | RADIUS ELBOW (R=1.5)  |
|   | VANED ELBOW   |
|   | MANUAL VOLUME DAMPER (MVD), MOTOR OPERATED DAMPER (MOD)   |

| SERIES FAN POWERED UNIT SCHEDULE   |                      |                |                      |          |                |           |                     |                |
|--|----------------------|----------------|----------------------|----------|----------------|-----------|---------------------|----------------|
| MARK   | MIN. VALVE/DUCT SIZE | VALVE MAX. CFM | FAN CFM at 0.3" W.G. | MOTOR HP | VALVE MIN. CFM | HEATER KW | HEATER CONTROL TYPE | TITUS BOX SIZE |
| EP-2-1   | 12                   | 1300           | 1300                 | 1/4      | 390            | 7.0       | SCR                 | 3              |
| NOTE: CONTRACTOR MUST COORDINATE VOLTAGE REQUIREMENT FOR ELECTRIC HEATERS BEFORE ORDERING TERMINAL UNITS. HEATER VOLTAGE 208/3 |                      |                |                      |          |                |           |                     |                |

| VARIABLE AIR VOLUME ROOFTOP UNIT SCHEDULE   |                                  |                        |                         |                         |                  |              |              |   |  |                              |  |                                       |              |                         |                           |       |                                  |
|---|----------------------------------|------------------------|-------------------------|-------------------------|------------------|--------------|--------------|---|--|------------------------------|--|---------------------------------------|--------------|-------------------------|---------------------------|-------|----------------------------------|
| MARK  | TYPE                             | MAXIMUM SUPPLY AIR CFM | MINIMUM HEATING AIR CFM | MINIMUM OUTSIDE AIR CFM | EXT. SP IN. W.G. | EVAP. FAN HP | NOMINAL TONS | EVAP. COIL ENTERING AIR DESIGN CONDITIONS DB F° WB F° | EVAP. COIL LEAVING AIR DESIGN CONDITIONS DB F° WB F° | UNIT LEAVING AIR DB F° WB F° | SYSTEM COOLING MAX. REQUIREMENTS (MBH) | OUTSIDE AIR TEMP. SUMMER/WINTER DB F° | POWER VAC/PH | BASIS OF DESIGN CARRIER | UNIT OPERATING WEIGHT LBS | NOTES |                                  |
| RTU-1   | VARIABLE AIR VOLUME-COOLING ONLY | 8,000                  | 3,640                   | 1,400                   | 2.0              | 5.0          | 25.0         | 79.9  | 65.6   | 53.3                         | 52.1                                   | 167.0                                 | 232.0        | 208/3                   | 50K3AF26A7GSA003B1        | 5,000 | 1:2:3:4:5:6:7:8:9:10:11:12:13:14 |
| RTU-2   | VARIABLE AIR VOLUME-COOLING ONLY | 9,900                  | 4,250                   | 1,800                   | 2.0              | 10.0         | 30.0         | 79.8  | 65.6   | 55.5                         | 54.9                                   | 57.5                                  | 52.5         | 208/3                   | 50K3AF30ABG5A003B1        | 5,000 | 1:2:3:4:5:6:7:8:9:10:11:12:13:14 |
| 1. PROVIDE FILTERS, CONDENSATE TRAP AND PIPING, ROOF CURB WITH VIBRATION ISOLATION AND CONTROL SYSTEM AS SPECIFIED.<br>2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.<br>3. PROVIDE MANUFACTURER'S CONDENSATE OVERFLOW SWITCH.<br>4. UNIT SHALL HAVE VERTICAL SUPPLY AND VERTICLE RETURN CONFIGURATION.<br>5. SET VFD FOR 40HZ ON STARTUP DURING UNOCCUPIED OPERATION MODE.<br>6. PROVIDE OPTIMIZED START UP ROUTINE, AIR CLOSED, UNIT OCCUPANCY, STRAT TIME VARIES DEPENDING ON OA TEMP AND ESTIMATED TIME TO WARM/COOL BUILDING TO OCCUPIED SET POINT.<br>7. WHEN SPACE IS LESS THAN 0.5 DEGREES SETPOINT, COOLING(MECHANICAL AND ECONOMIZER) SHALL BE DISABLED.<br>8. LOOK VFD DRIVE FOR MAXIMUM SUPPLY AIR CFM SUCH THAT SUPPLY FAN CFM SHALL BE NO MORE THAN 10% OF SCHEDULED CFM WHEN ALL DAMPERS ARE WIDE OPEN.<br>9. CONTRACTOR SHALL COORDINATE SUPPLY AND RETURN AIR OPENING WITH CURB MANUFACTURER.<br>10. UNIT SHALL BE EQUIPPED WITH MODULATING POWER EXHAUST, GREEN SPEED INTELLIGENCE, LOW LEAK ECONOMIZER, NON-FUSED DISCONNECT, STAINLESS STEEL DRAIN PAN, AND PREMIUM EFFICIENCY VFD MOTOR.<br>11. ELECTRICAL SHALL PROVIDE SUPPLY AIR SMOKE DETECTOR, MECHANICAL SHALL INSTALL SUPPLY AIR SMOKE DETECTOR, ELECTRICAL SHALL INTERLOCK SMOKE DETECTORS WITH BUILDING FIRE ALARM SYSTEM.<br>12. PROVIDE MANUFACTURER'S DIGITAL VARIABLE SPEED COMPRESSOR, CONDENSATE OVERFLOW SWITCH, PLUGGED FILTER INDICATOR WITH LUBE LINES, CONTROL EXPANSION MODULE WITH PHASE MONITOR AND VFD DRIVE.<br>13. PROVIDE LOW SOUND OUTDOOR FAN OPTION, COMPRESSOR BLANKET, AND VIBRATION ISOLATORS IN ROOF CURB. UNIT SHALL BE COMPATIBLE WITH DDC CONTROL SYSTEM. PROVIDE LOW SOUND PACKAGE.<br>14. CONTRACTOR SHALL COORDINATE FINAL UNIT OPERATING WEIGHT WITH STRUCTURAL. |                                  |                        |                         |                         |                  |              |              |   |  |                              |  |                                       |              |                         |                           |       |                                  |

| MINI SPLIT SYSTEM SCHEDULE   |                  |                 |                        |                |              |      |      |                 |               |                      |                         |
|--|------------------|-----------------|------------------------|----------------|--------------|------|------|-----------------|---------------|----------------------|-------------------------|
| OUTDOOR UNIT MARK  | INDOOR UNIT MARK | MIN COOLING MBH | MIN HEATING MBH @ 47 F | SUPPLY AIR CFM | POWER VAC/PH | SEER | HSFP | CARRIER MODEL # |               | SERVES               | NOTES                   |
|  |                  |                 |                        |                |              |      |      | OUTDOOR         | INDOOR        |                      |                         |
| HPU-1  | ACU-1            | 24.0            | 24.0                   | 680            | 208/1        | 19.5 | 9.6  | 38MA0B24B---3   | 40MA0B24B---3 | 304 MECH/ELEC/DATA   | 1:2:3:4:5:6:7:8:9:10:11 |
| HPU-2  | ACU-2            | 36.0            | 36.0                   | 1,050          | 208/1        | 16.5 | 11.5 | 38MB0Q36A---3   | 40MB0Q36---3  | 311 CONF.            | 1:2:3:4:5:1:12:13:14    |
| HPU-3  | ACU-3            | 18.0            | 18.0                   | 635            | 208/1        | 19.5 | 9.6  | 45MAHAQ18XA3    | 37MARAQ18AA3  | 221 SLEEP LAB SERVER | 1:2:3:4:5:6:7:8:9:10:11 |
| 1. VERIFY ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL PLANS WHICH TAKES PRECEDENCE OVER THIS INFORMATION.<br>2. ROUTE CONDENSATE AS NOTED ON PLANS. COORDINATE WITH PLUMBING.<br>3. CONDENSATE DRAIN SHALL BE PVC OR MANUFACTURER'S APPROVED PIPE MATERIAL.<br>4. CONTRACTOR MUST COORDINATE EXACT LOCATION OF DRAIN IN THE FIELD WITH PLUMBING CONTRACTOR. MECHANICAL MUST ROUTE CONDENSATE TO APPROPRIATE LOCATION OF DISPOSAL.<br>5. PROVIDE DISCONNECT AND ELECTRICAL CONNECTION TO OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTIONS.<br>6. PROVIDE MANUFACTURER'S WIRED REMOTE CONTROLLER KSA0N0501AA.<br>7. PROVIDE RECTOR SEAL SS610E CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.<br>8. MINI SPLIT SYSTEM MOUNTED ON WALL (SEE PLANS). PROVIDE MANUFACTURER'S WIRED THERMOSTAT.<br>9. PROVIDE FLOAT ACTIVATED CONDENSATE PUMP TO PUMP CONDENSATE DOWN TO DRAIN. PUMP SHALL BE INTEGRAL TO THE UNIT CABINET.<br>10. PROVIDE RECTOR SEAL SS610E CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.<br>11. PROVIDE SELF CLEANING IONIZATION SYSTEM. REFER TO SCHEDULE FOR FURTHER INFORMATION.<br>12. ABOVE CEILING CONCEALED DUCTED UNIT. PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP.<br>13. PROVIDE RECTOR SEAL SS610E CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.<br>14. PROVIDE MANUFACTURER'S WIRED REMOTE CONTROLLER. |                  |                 |                        |                |              |      |      |                 |               |                      |                         |

| HEAT PUMP AIR HANDLING UNIT SCHEDULE   |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
|--|----------------|-----------------|-------------------|--------------|---|-------|--|-------|--|----------|----------------|--------------|--------------|-------------------------|-------------------------|
| MARK   | SUPPLY AIR CFM | OUTSIDE AIR CFM | EXT. SP. IN. W.G. | EVAP. FAN HP | EVAP. COIL ENTERING AIR DESIGN CONDITIONS |       | EVAP. COIL LEAVING AIR DESIGN CONDITIONS |       | SYSTEM COOLING MAX. REQUIREMENTS (MBH) |          | SUPPL. HEAT KW | WEIGHT (LBS) | POWER VAC/PH | BASIS OF DESIGN CARRIER | NOTES                   |
|  |                |                 |                   |              | DB °F                                     | WB °F | DB °F                                    | WB °F | TOTAL                                  | SENSIBLE |                |              |              |                         |                         |
| AH-1   | 1050           | 200             | 0.60              | 1/2          | 78.4                                      | 65.5  | 55.0                                     | 54.0  | 36.0                                   | 27.0     | 7.5            | 250          | 208/1        | FE4ANF003L00            | 2:3:4:5:6:7:8:9:10:11   |
| AH-2   | 1050           | 200             | 0.60              | 1/2          | 78.4                                      | 65.5  | 55.0                                     | 54.0  | 36.0                                   | 27.0     | 7.5            | 250          | 208/1        | FE4ANF003L00            | 1:2:3:4:5:6:7:8:9:10:11 |
| AH-3   | 1750           | 300             | 0.60              | 3/4          | 78.3                                      | 65.2  | 55.0                                     | 54.0  | 58.0                                   | 42.0     | 11.3           | 250          | 208/3        | FE4ANB006L00            | 1:2:3:4:5:6:7:8:9:10    |
| 1. UNIT AT 208/1Ø AUXILIARY HEATER AT 208/3Ø. UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR.   |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
| 2. PROVIDE ELECTRICAL POWER REQUIREMENTS WITH ELECTRICITY. UNIT WILL TAKE PRECEDENCE OVER THIS INFORMATION.  |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
| 3. PROVIDE AIR FILTERS, DUCT CONNECTIONS AND VIBRATION ISOLATION. PROVIDE PROGRAMMABLE THERMOSTAT AND SUPP. ELEC. HEAT MODULE CONNECTED TO UNIT FOR SINGLE POINT OF CONNECTION.            |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
| 4. PROVIDE CONDENSATE TRAP(S) AS RECOMMENDED BY MANUFACTURER AND ROUTE CONDENSATE PIPING AS NOTED ON PLANS.  |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
| 5. PROVIDE AUXILIARY DRAIN PAN UNDER THE AIR HANDLERS WITH FLOAT ACTIVATED SWITCH TO SHUT THE UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. REFER TO DETAIL PROVIDED.                          |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
| 6. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR-HANDLING UNIT.  |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
| 7. FLOAT ACTIVATED CONDENSATE SWITCH SHALL BE PROVIDED AND INSTALLED BY HVAC CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR. |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
| 8. PROVIDE COIL OUTLET SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. WIRE COIL OUTLET SWITCH IN SERIES WITH AUXILIARY CONDENSATE SWITCH LOCATED IN DRAIN PAN.                   |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
| 9. PROVIDE ONE SELF-CLEANING CLEANOUT SYSTEM PER SYSTEM. REFER TO SCHEDULE FOR FURTHER INFORMATION.  |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
| 10. PROVIDE INFINITY TOUCH CONTROL FOR INDOOR UNIT.  |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |
| 11. UNIT AT 208/1Ø AUXILIARY HEATER AT 208/1Ø. UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR.  |                |                 |                   |              |   |       |  |       |  |          |                |              |              |                         |                         |





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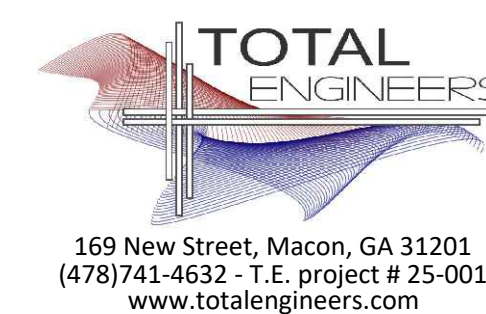
# OFFICE RENOVATION FOR VILTIES HOLDINGS LLC

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| Revisions: |  |
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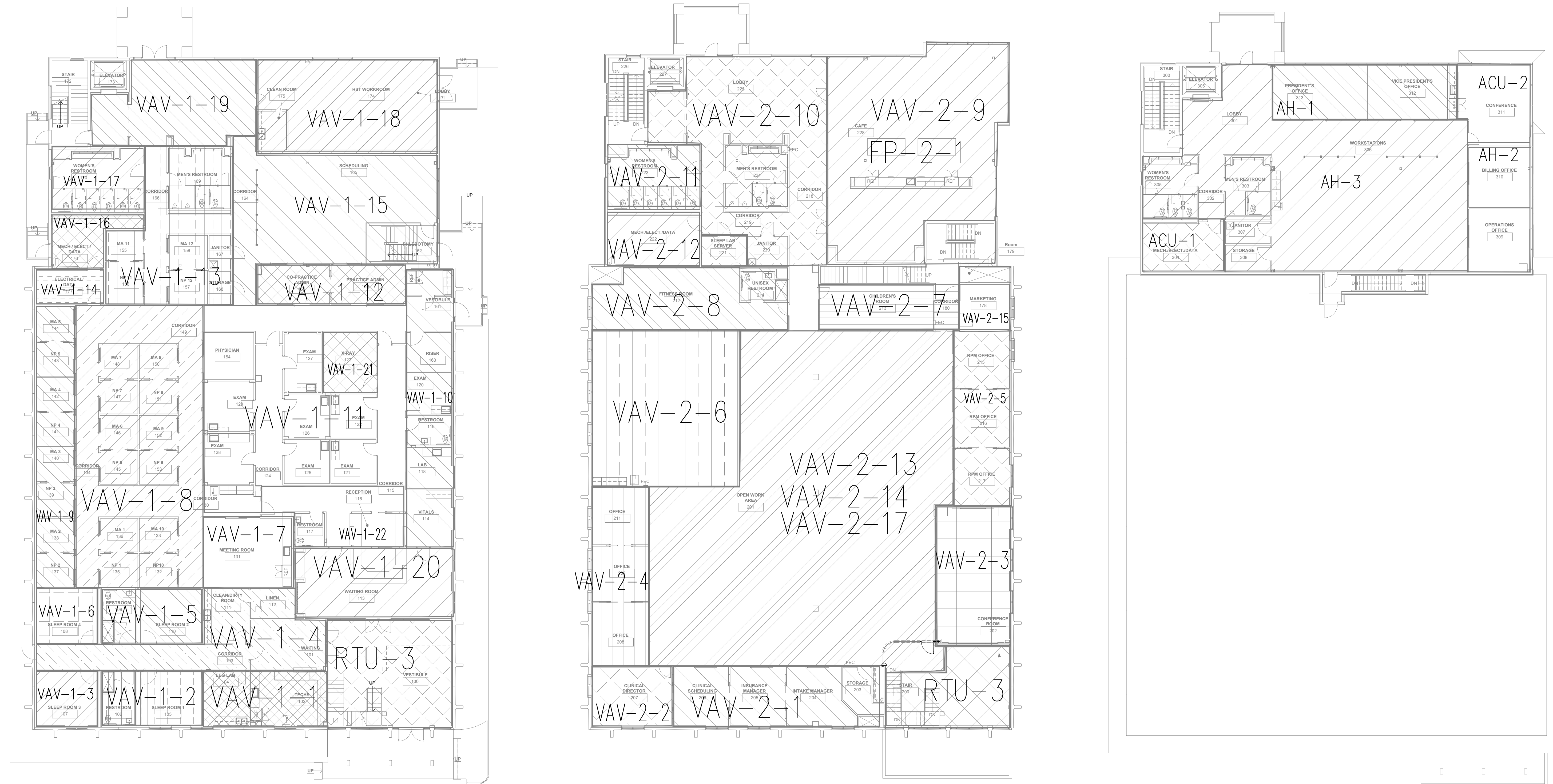
Sheet Title:  
MECHANICAL  
DETAILS

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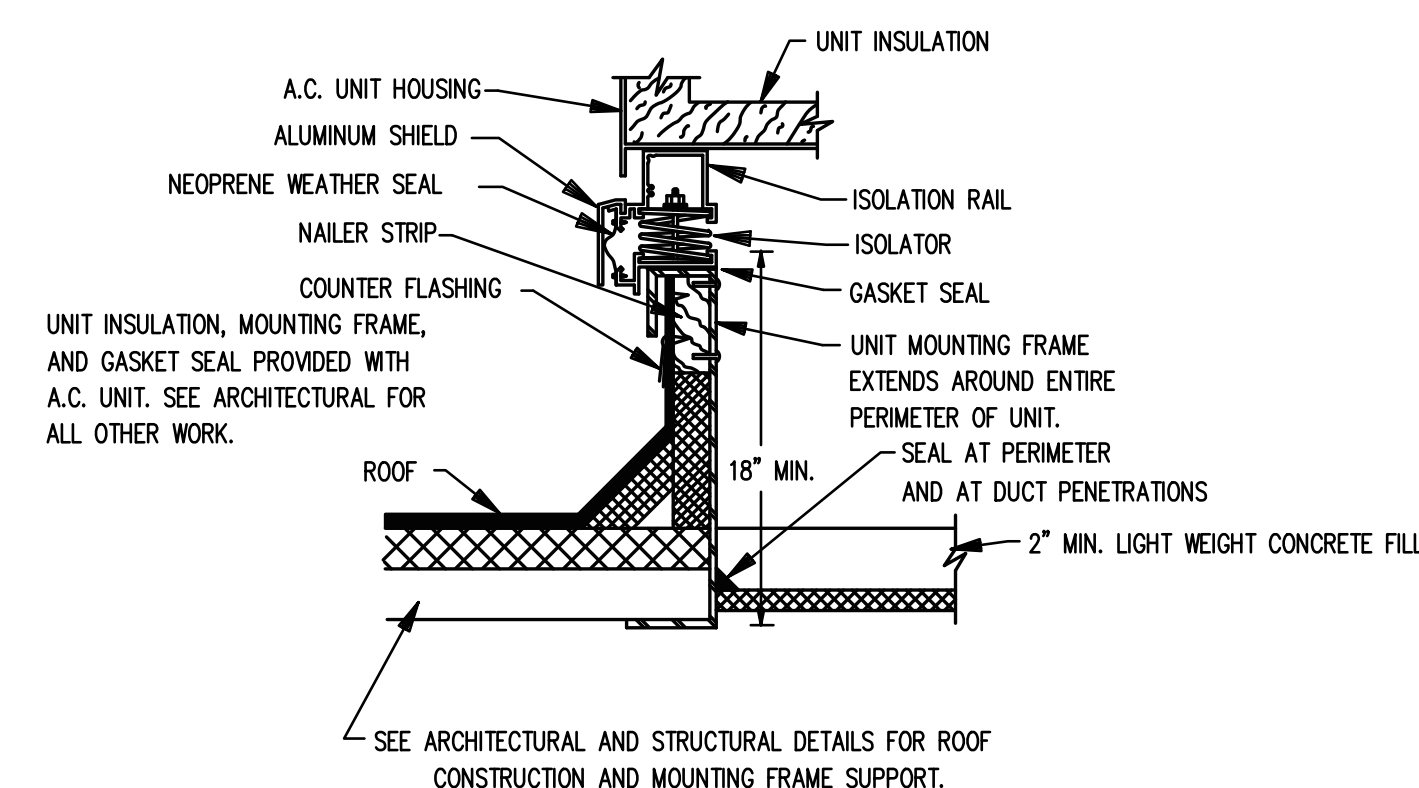
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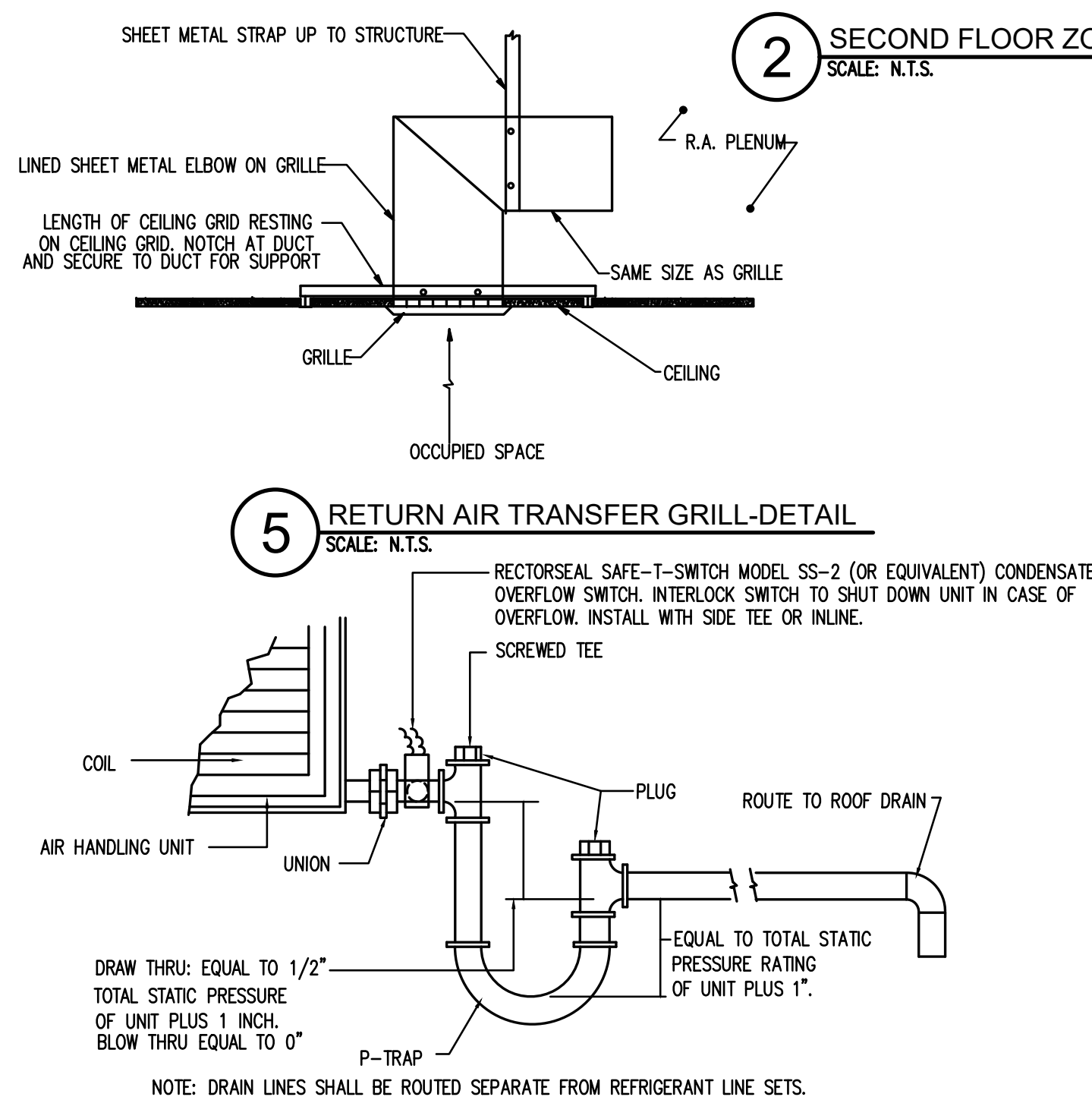
1 FIRST FLOOR ZONING PLAN  
SCALE: N.T.S.



3 THIRD FLOOR ZONING PLAN  
SCALE: N.T.S.



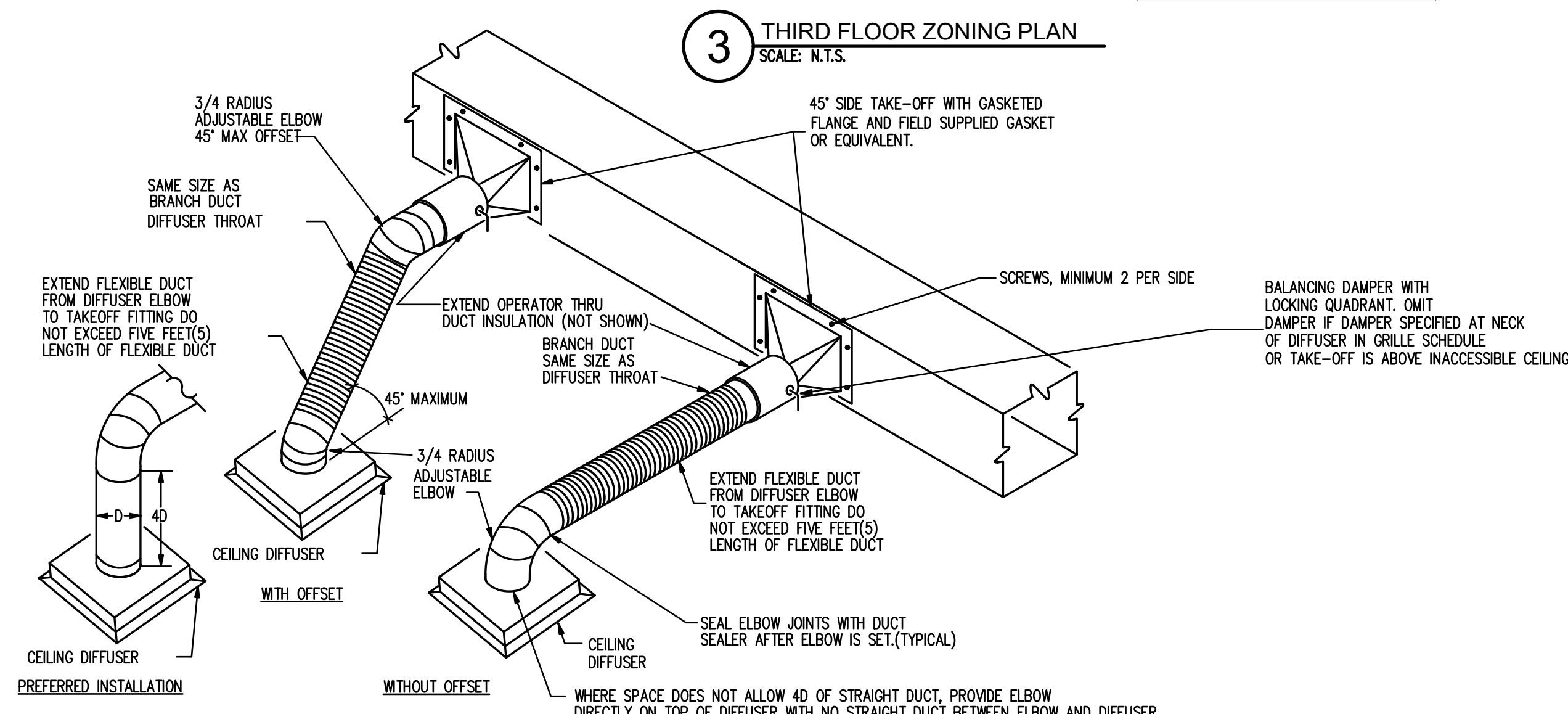
**5** RETURN AIR TRANSFER GRILL-DETAIL  
SCALE: N.T.S.



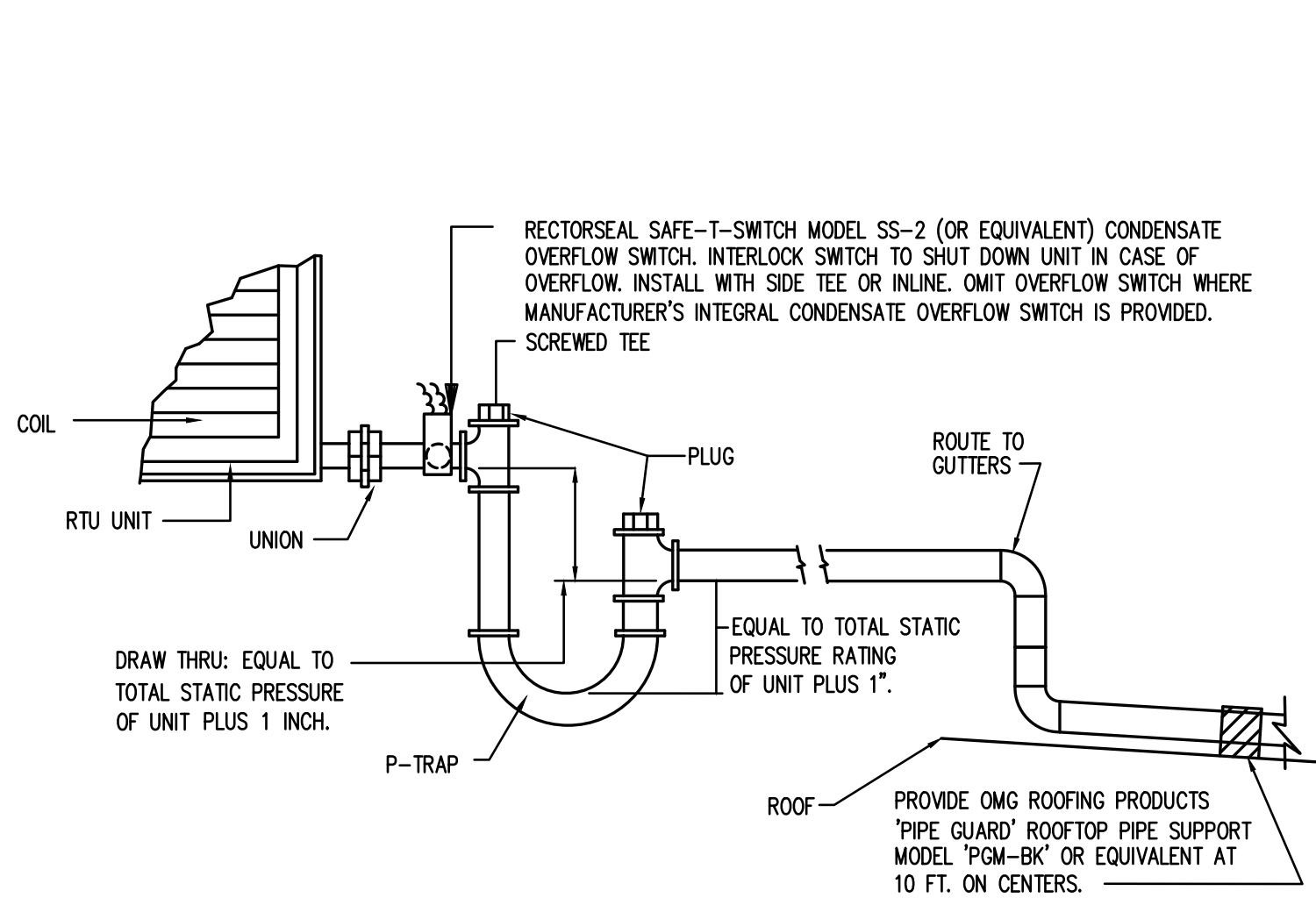
6 CONDENSATE DRAIN DETAIL  
SCALE: N.T.S.

4 ROOFTOP UNIT CURB WITH VIBRATION ISOLATION(RTU-1 & RTU-2) - DETAIL  
SCALE: N.T.S.

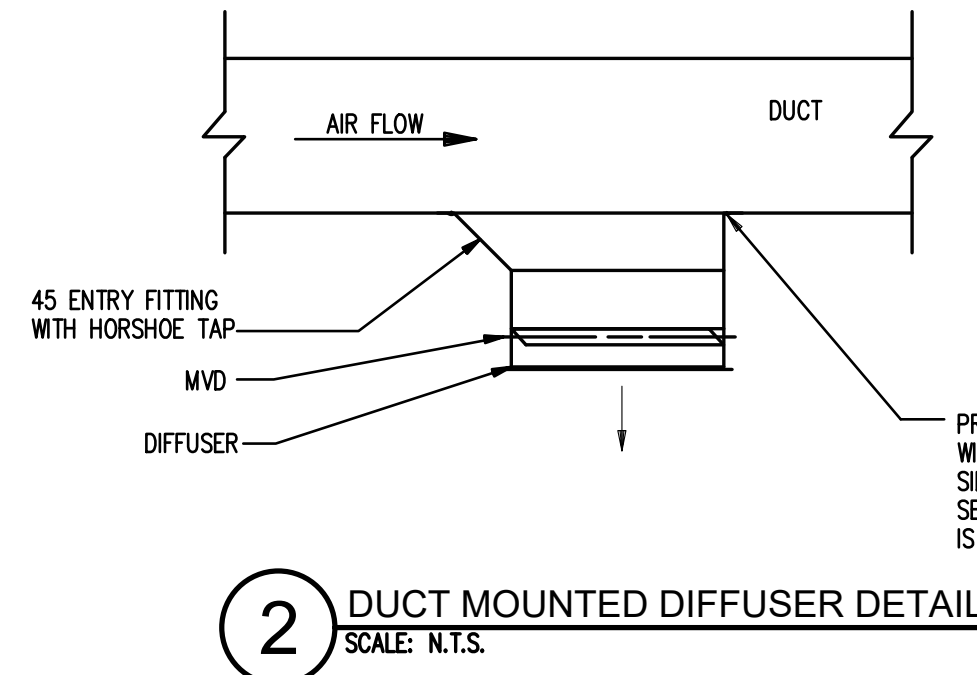
**7** DIFFUSER RUN OUT DETAIL  
SCALE: N.T.S.



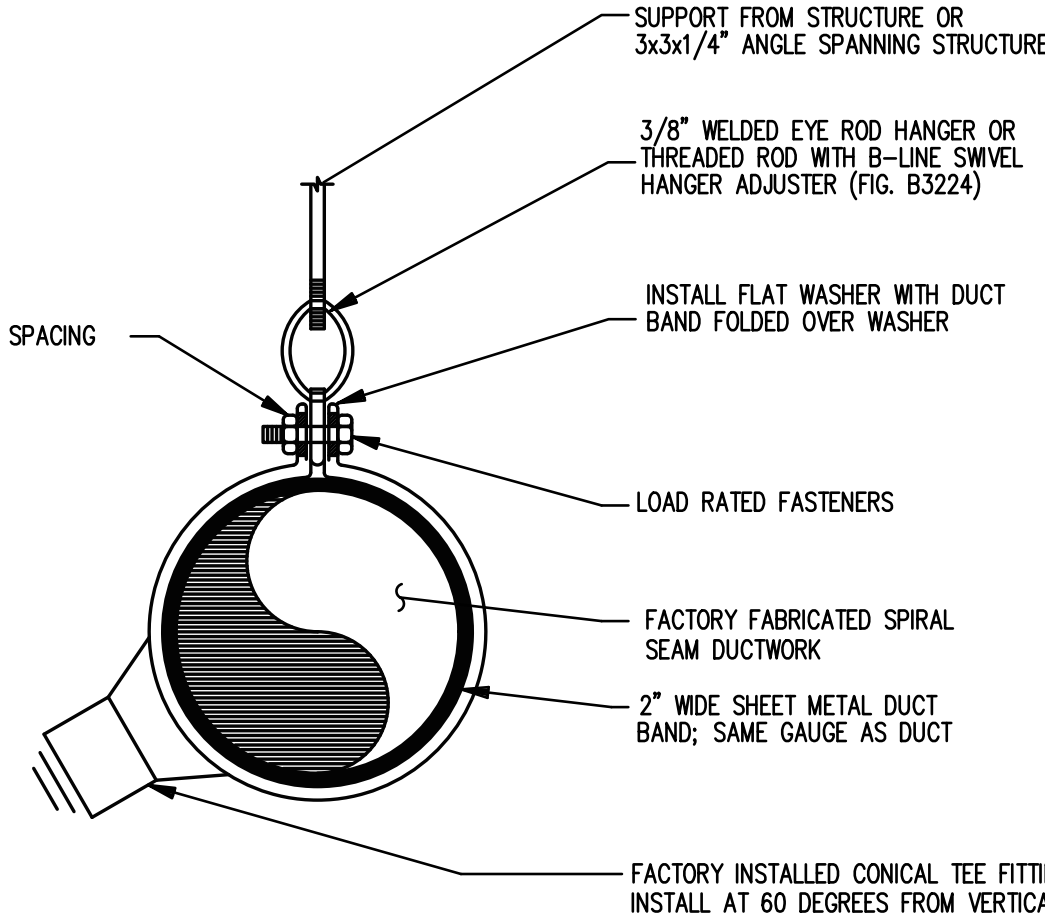




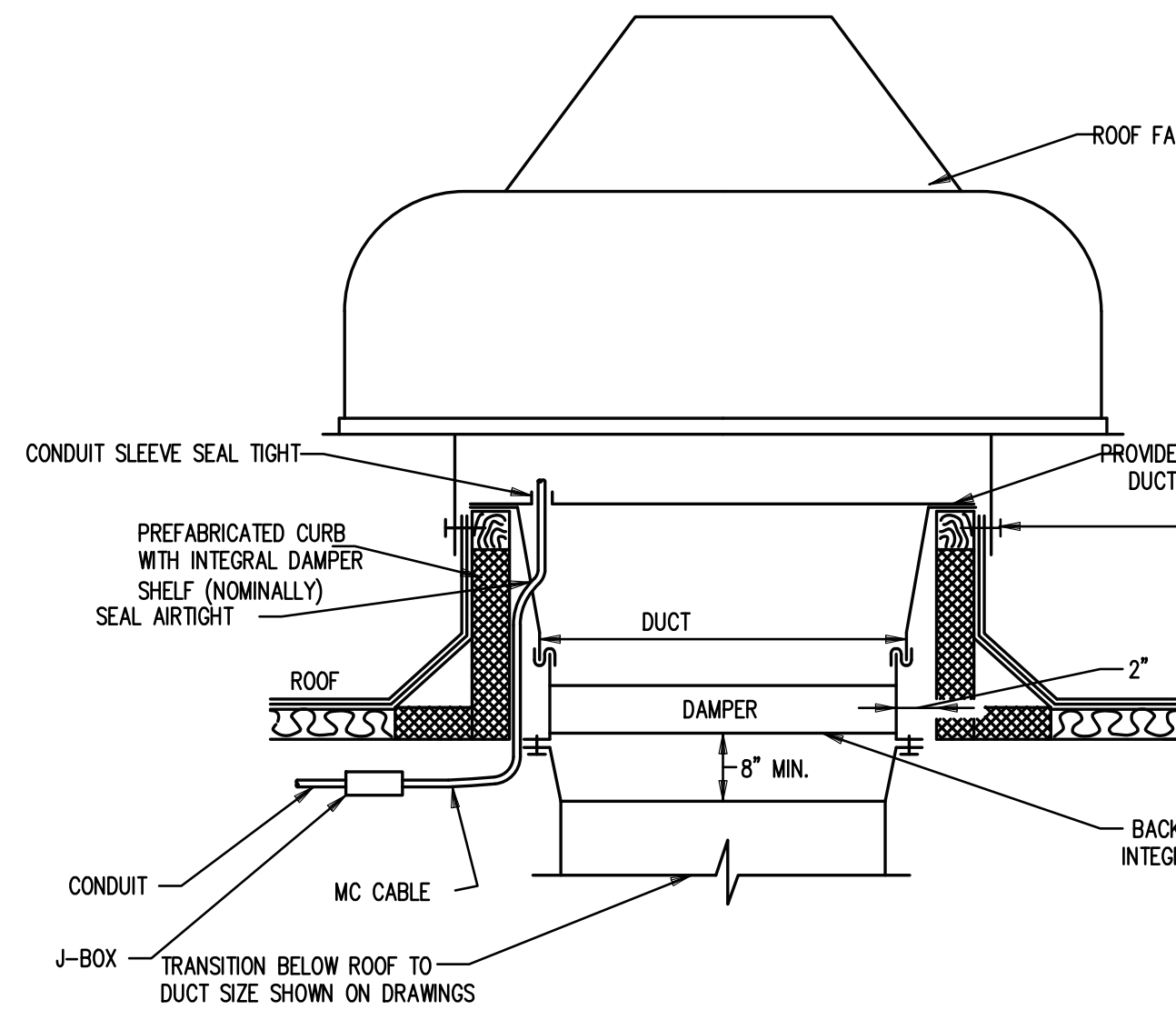
**1** CONDENSATE DRAIN FOR ROOF TOP  
SCALE: N.T.S.



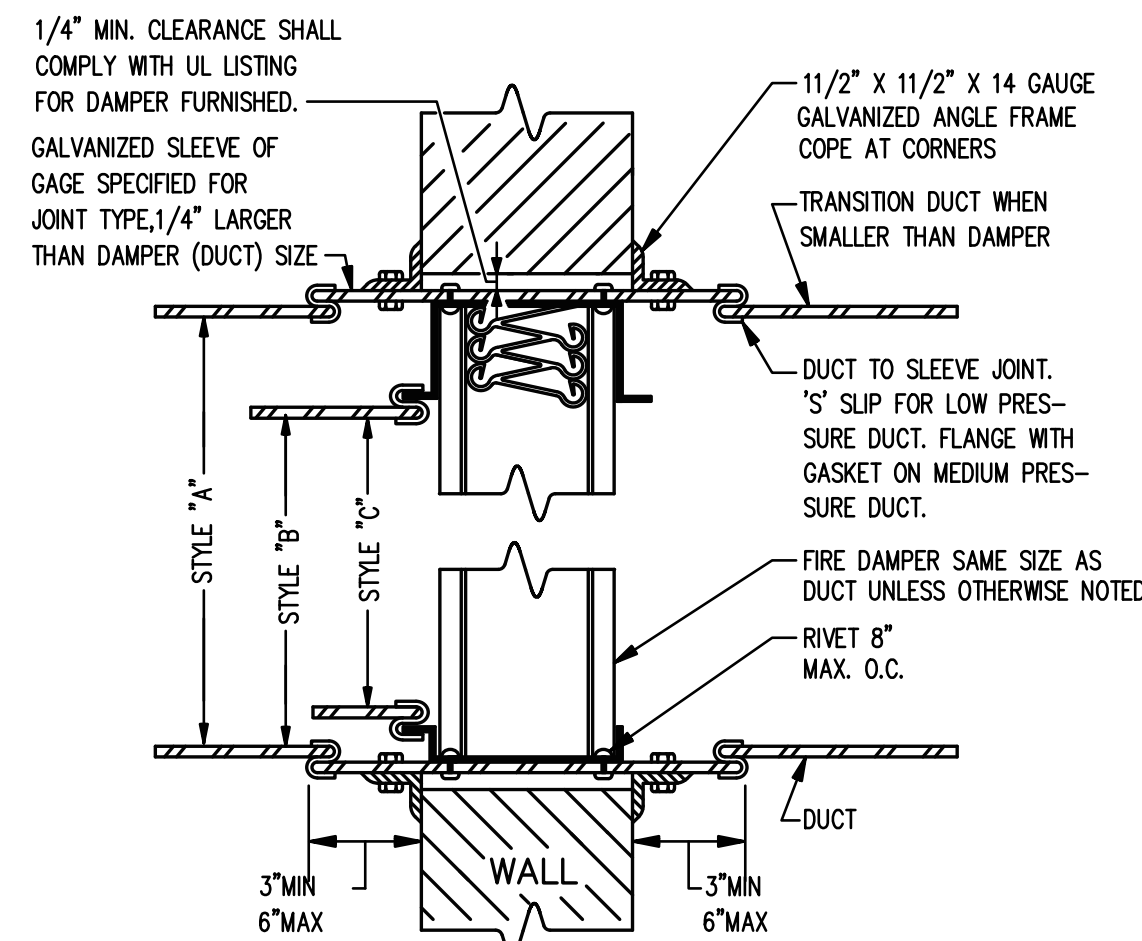
**2** DUCT MOUNTED DIFFUSER DETAIL  
SCALE: N.T.S.



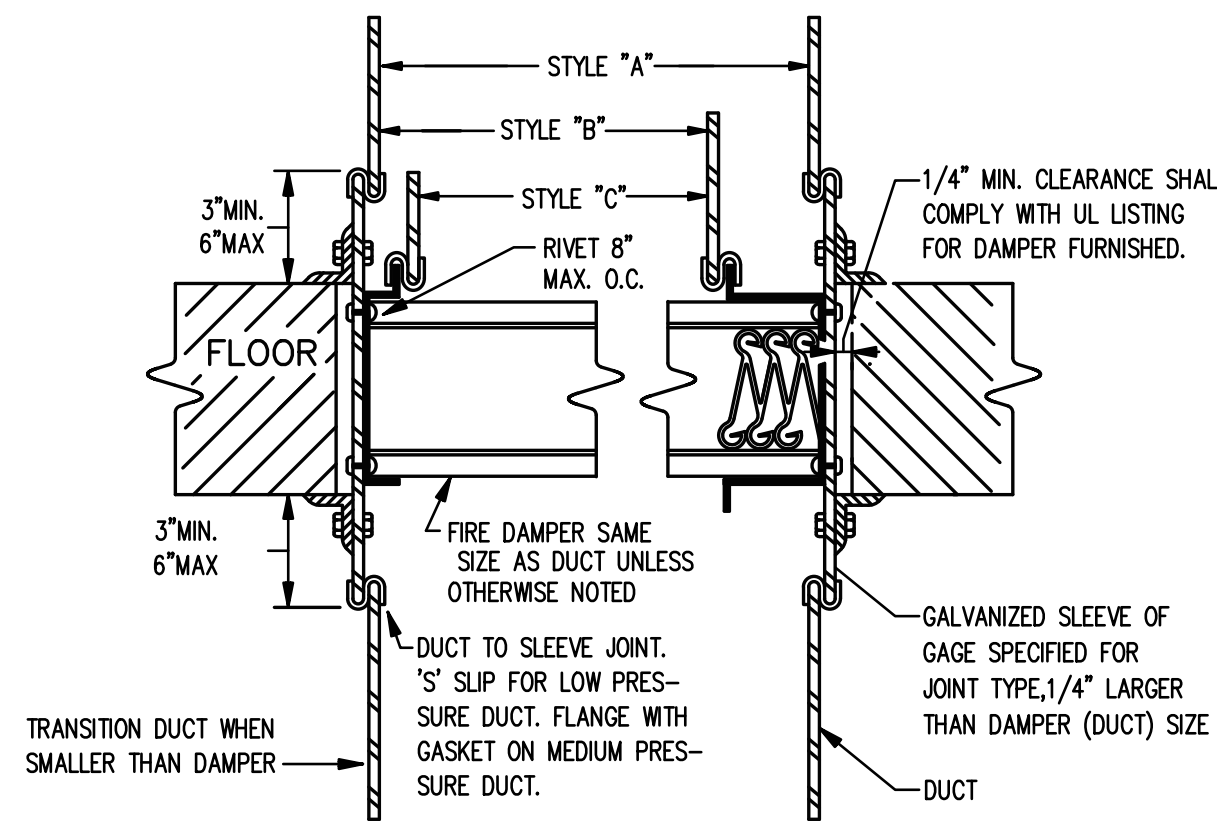
**3** DUCT SUPPORT IN EXPOSED AREA  
SCALE: N.T.S.



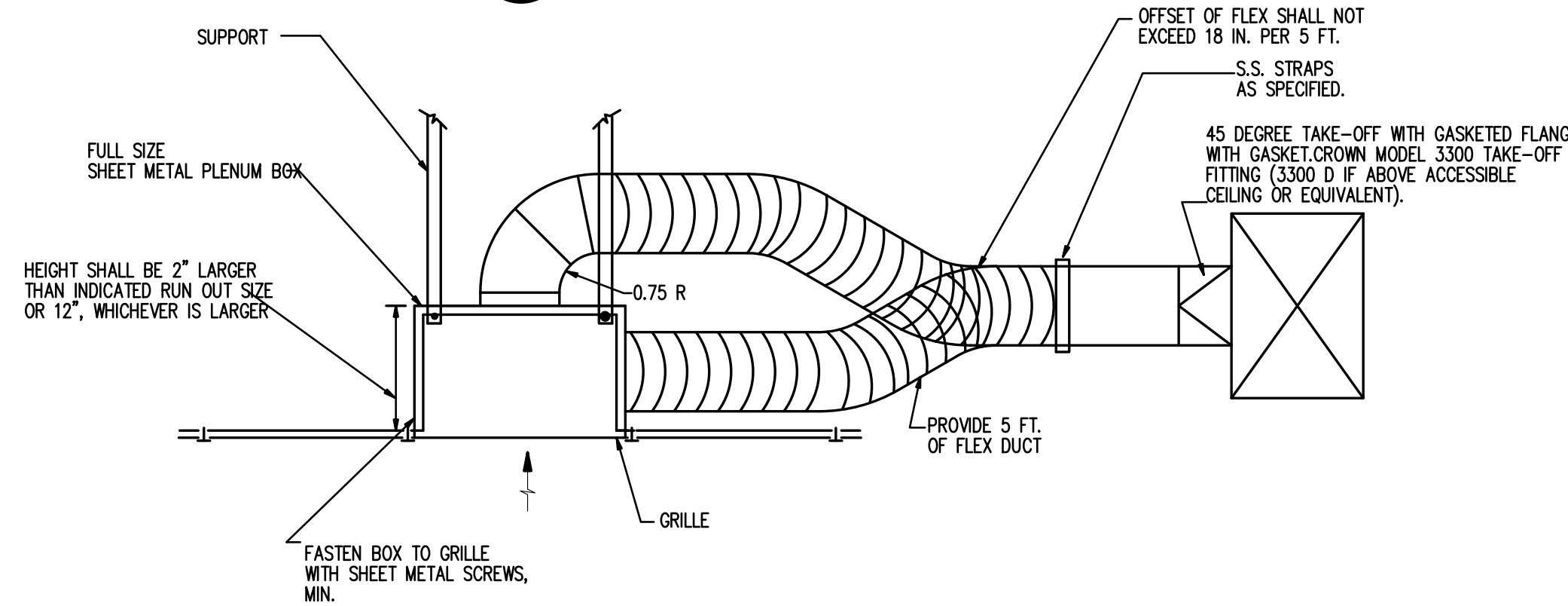
**4** ROOF MOUNTED EXHAUST FAN DETAIL  
SCALE: N.T.S.



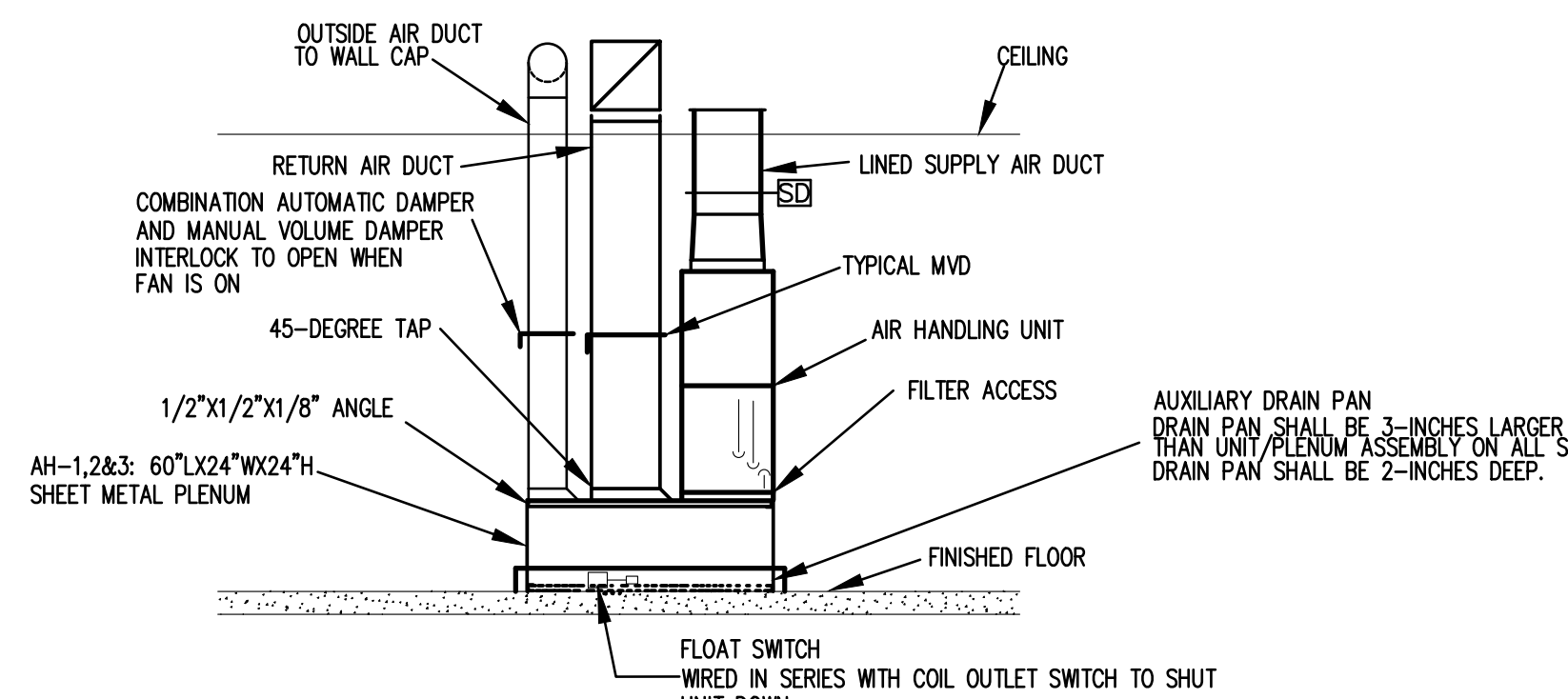
VERTICAL FIRE DAMPER



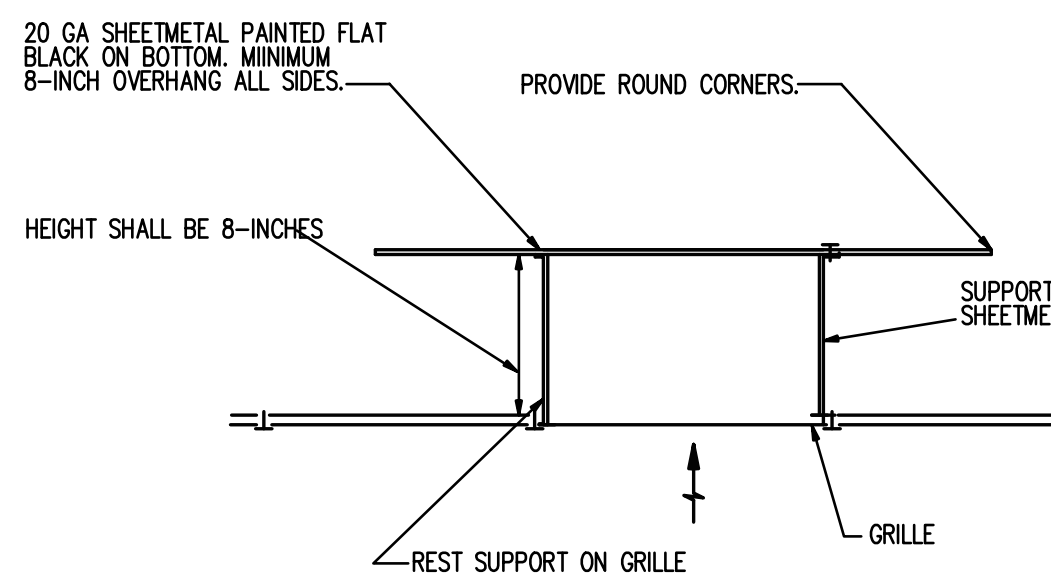
HORIZONTAL FIRE DAMPER



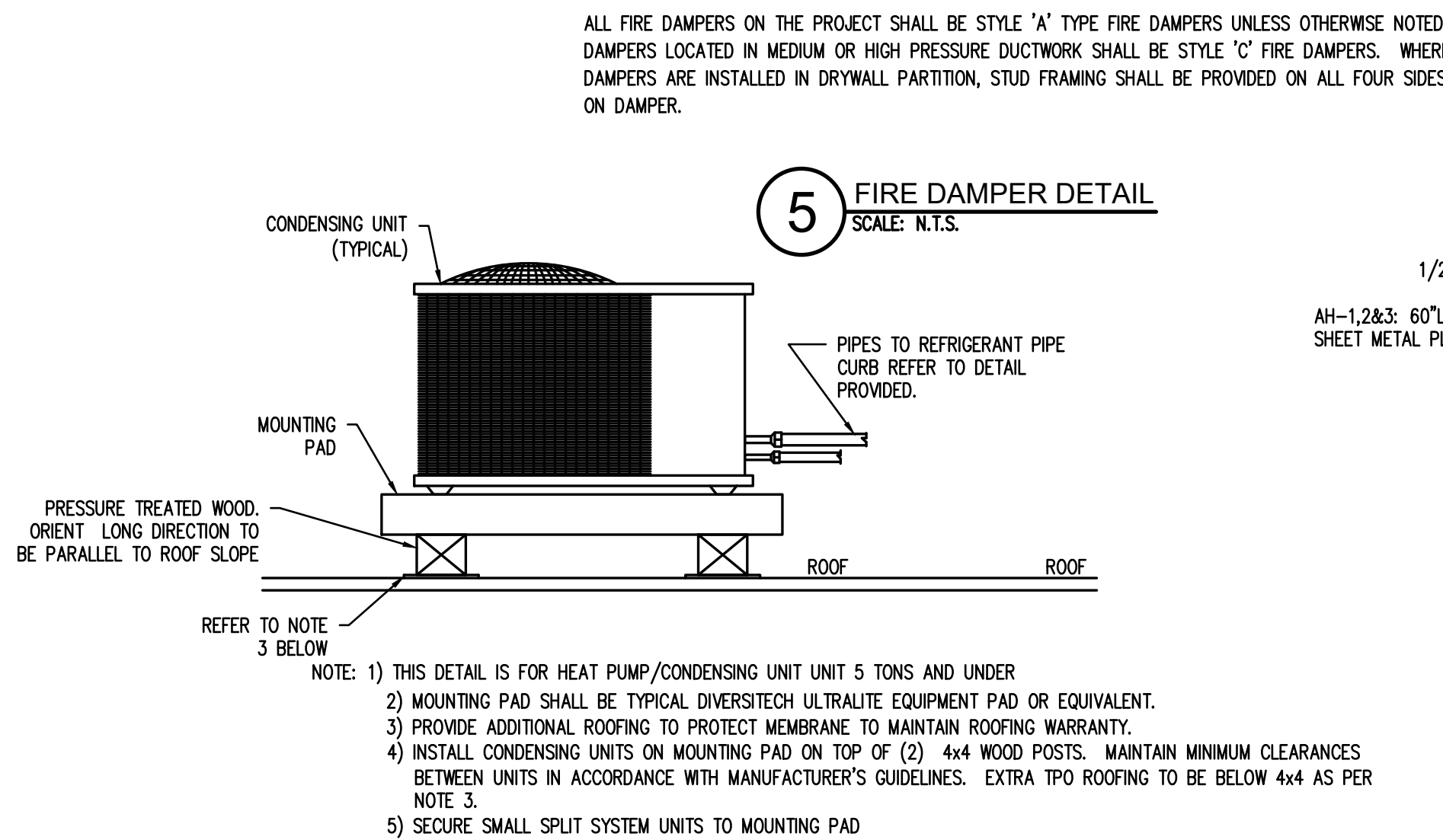
**6** TYPICAL GRILLE WITH LINED PLENUM DETAIL  
SCALE: N.T.S.



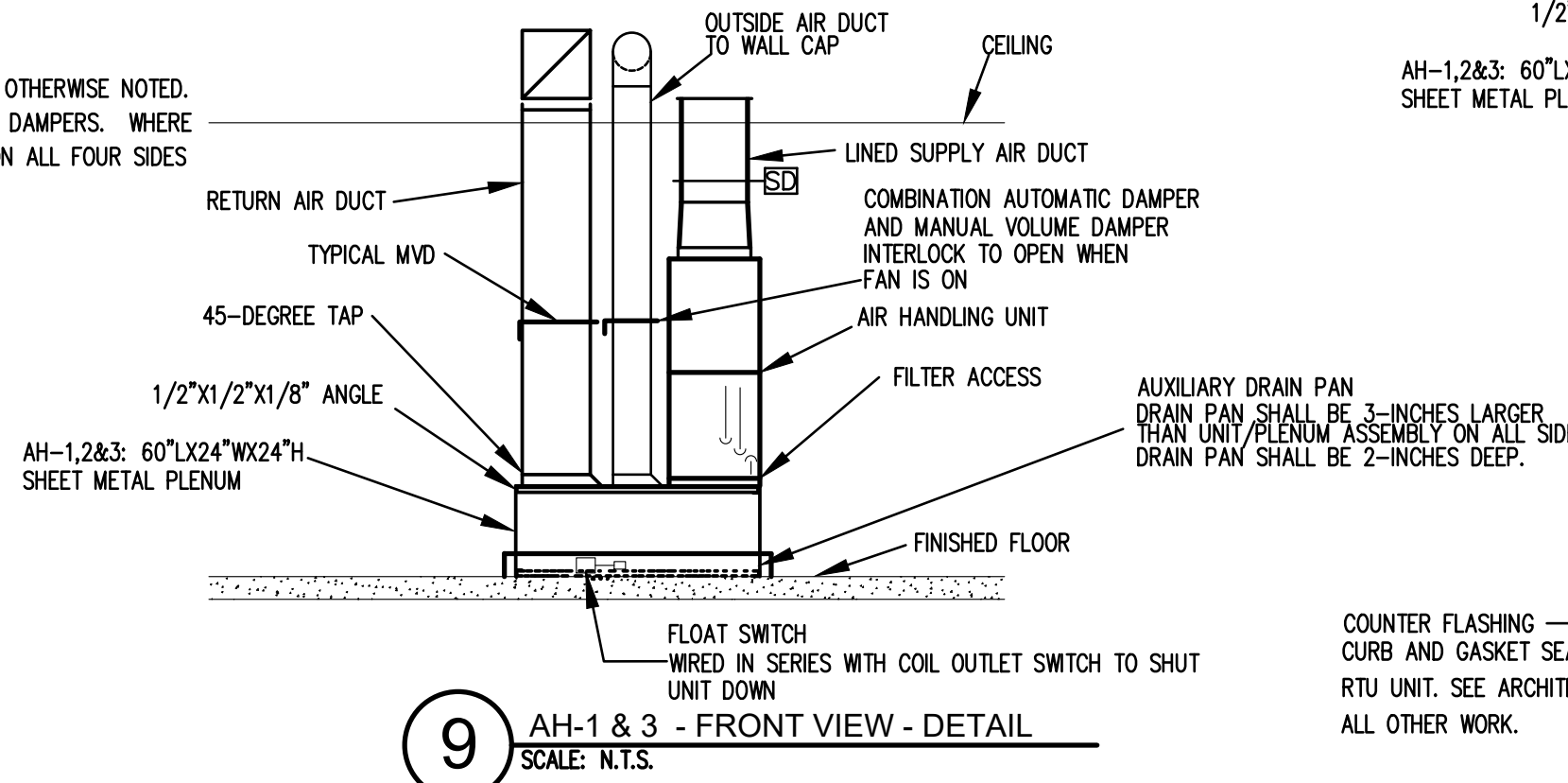
**7** CONDENSATE PIPE SLEEVE THROUGH WALL  
SCALE: N.T.S.



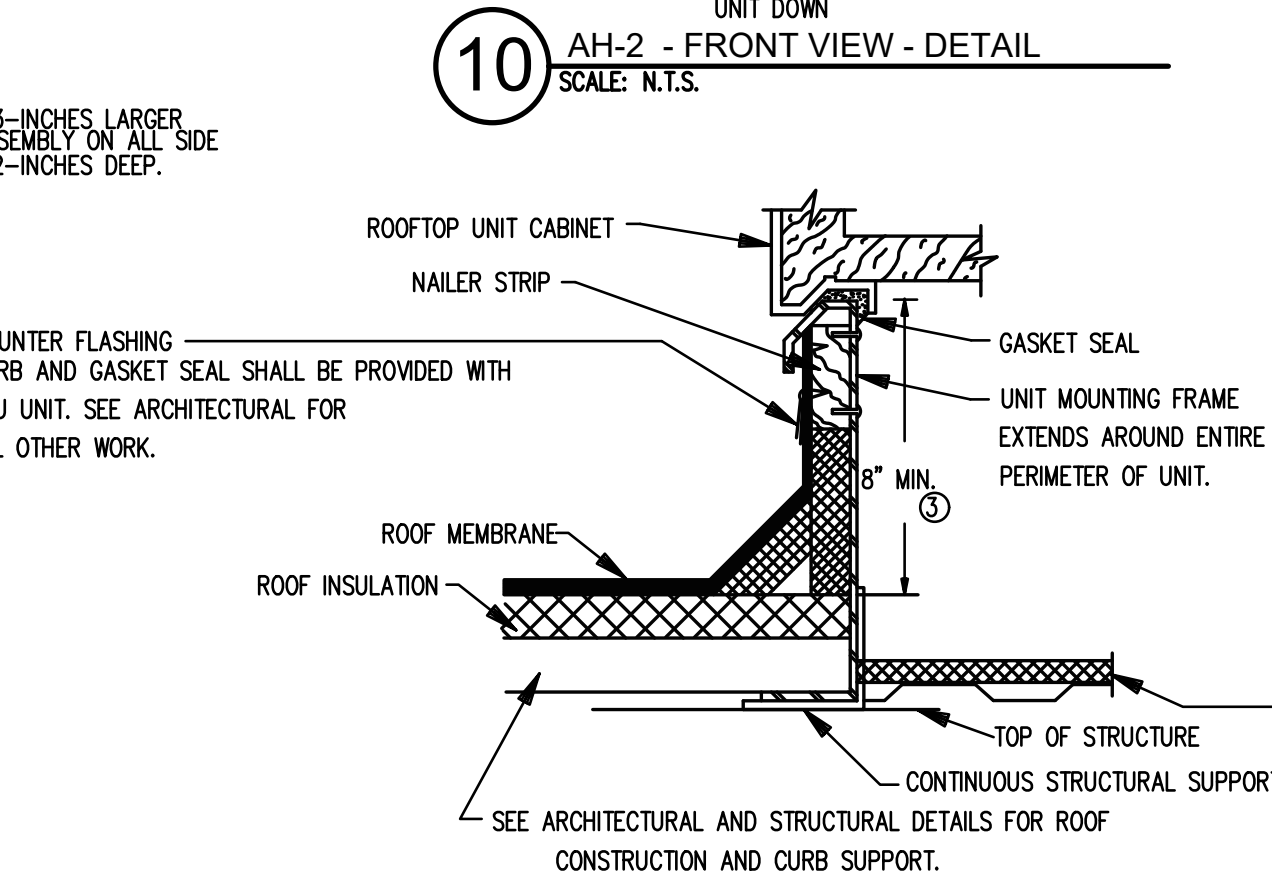
**11** TYPICAL GRILLE WITH LIGHT SHIELD  
SCALE: N.T.S.



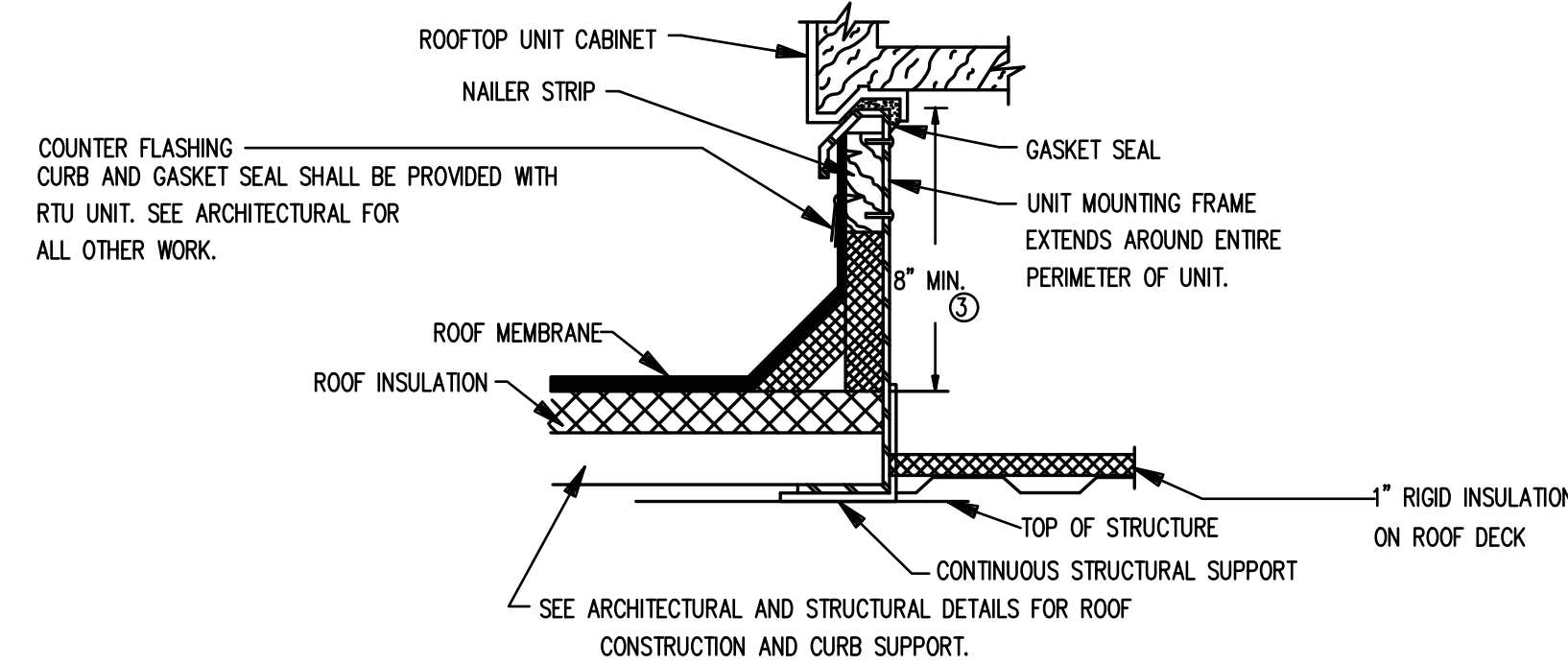
**8** TYPICAL CONDENSING UNIT INST  
SCALE: N.T.S.



**9** AH-1 & 3 - FRONT VIEW - DETAIL  
SCALE: N.T.S.



**10** AH-2 - FRONT VIEW - DETAIL  
SCALE: N.T.S.

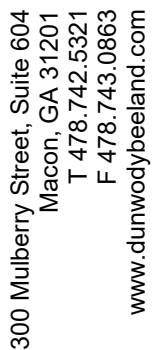


**12** ROOFTOP CURB (RTU-3) - DETAIL  
SCALE: N.T.S.

1. RIGID INSULATION AND METAL DECK SHALL EXTEND OVER ENTIRE AREA BENEATH ROOFTOP UNIT EXCEPT AT SUPPLY AND RETURN DUCT PENETRATIONS
2. SEAL DECK TO DUCTWORK ROUTED THROUGH DECKING.
3. INSULATION THICKNESS MAY VARY. CURB HEIGHT SHALL PROVIDED UNIT HEIGHT ABOVE ROOF TO COMPLY WITH ROOFING CLEARANCE REQUIREMENTS.

| Revisions: |  |
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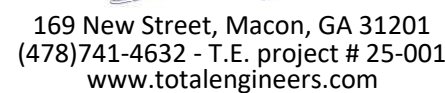


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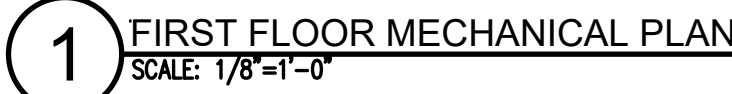
4951 FORSYTH ROAD, MACON, GA 31210

| Revisions: |  |
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**Project #:** 2229      **Date:** 04/18/2025



# M1.0



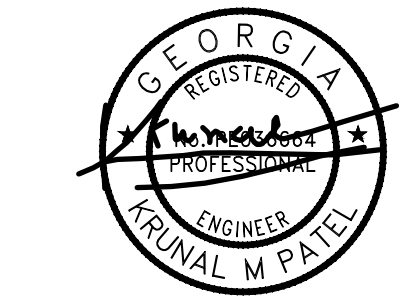
- KEY NOTES:(THIS SHEET ONLY):
- ① TYPICAL FURNACE REGULATOR MODEL 270-896-LO CONCEALED CEILING REGULATOR WITH 7/8" THREADED CEILING CAP. PROVIDE BOWDEN CASING WIRE AS REQUIRED. CONTRACTOR SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLING MANUAL VOLUME REGULATORS. CONTRACTOR SHALL USE THIS REGULATOR FOR ALL CONCEALED MANUAL VOLUME DAMPERS LOCATED ABOVE HARD CEILING.
  - ② PROVIDE 12"x8" TO 12"Ø RECTANGULAR TAP.
  - ③ 72"x36" RETURN AIR OPENING WITH COMBINATION FIRE/SMOKE DAMPER.
  - ④ TOP OF GRILL AT BOTTOM OF STRUCTURE. PAINT TO MATCH THE WALL GRILL IS MOUNTED ON.
  - ⑤ 14"x16" RETURN AIR TRANSFER ELBOW ABOVE CEILING.
  - ⑥ 48"x18" RETURN AIR TRANSFER ELBOW ABOVE CEILING.
  - ⑦ 24"x18" RETURN AIR TRANSFER ELBOW ABOVE CEILING.
  - ⑧ ALL EXPOSED VISIBLE DUCT WORK IN THE ROOM SHALL BE SPIRAL DUCT. PROVIDE PAINT GRIP FINISH. REFER TO ARCHITECTURAL FOR DUCTWORK AND GRILL FINISH.NON-VISIBLE DUCTWORK SHALL BE INSULATED PER SPECIFICATIONS.
  - ⑨ TOP OF ALL MECHANICAL EQUIPMENT SHALL BE AT BOTTOM OF STRUCTURE. TYPICAL FOR ALL MECHANICAL EQUIPMENT.





- | Revisions: |  |
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## M2.0

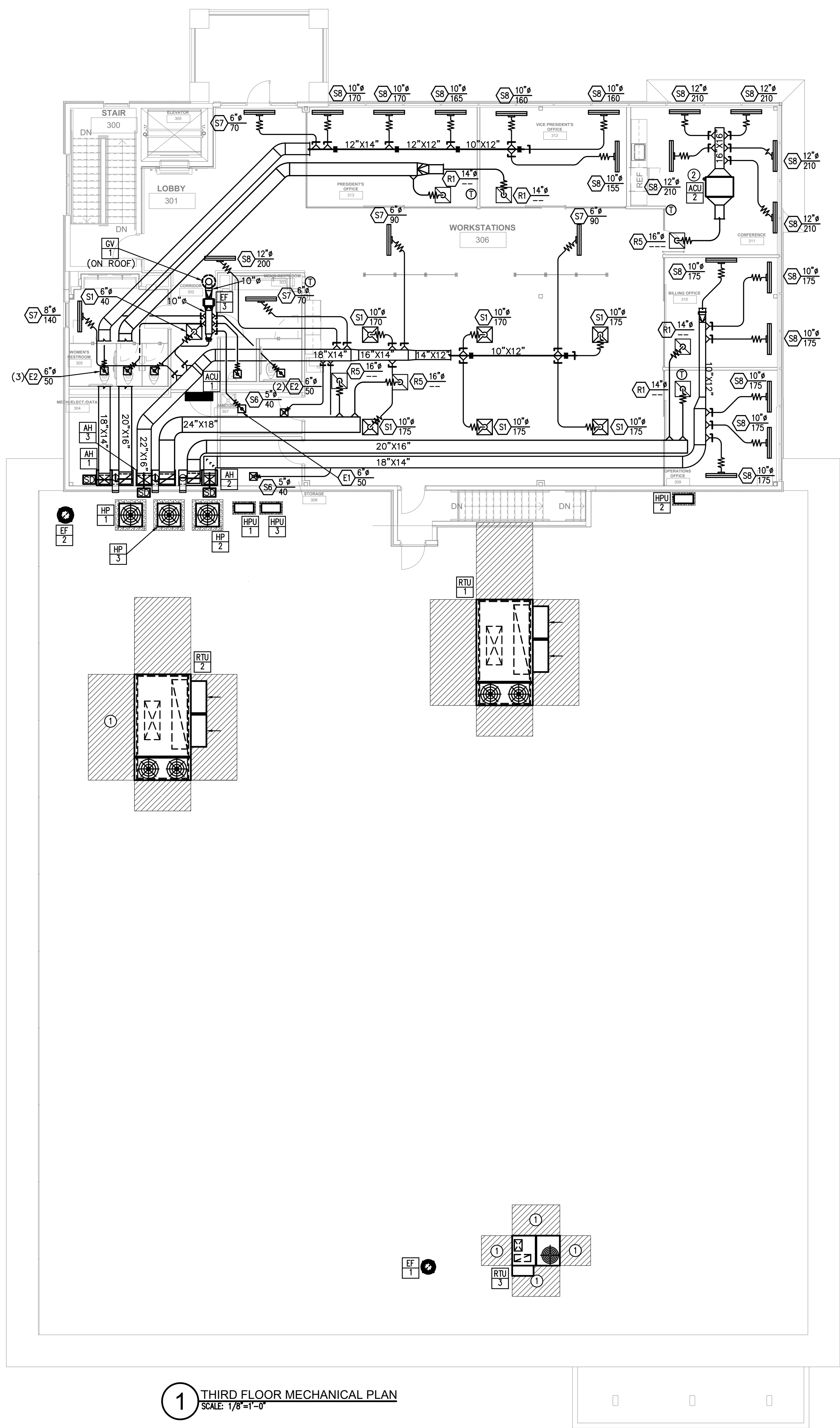


**DUNWODY/BEELAND,**  
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Dunwoody/Beeland, Architects, Inc.  
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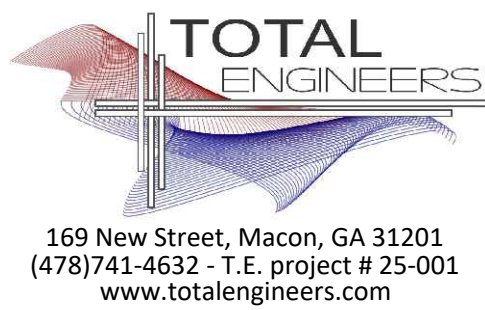
# OFFICE RENOVATION FOR VILTIES HOLDINGS LLC

4951 FORSYTH ROAD, MACON, GA 31210



- KEY NOTES(THIS SHEET ONLY):
- ① TYPICAL UNIT ACCESS SPACE.
  - ② ROUTE CONDENSATE O OUTSIDE ON LOWER ROOF. ROUTE TO NEAREST ROOF DRAIN.

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



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Architects, Inc. is prohibited.

**OFFICE RENOVATION FOR VILTIES  
HOLDINGS LLC**

4951 FORSYTH ROAD, MACON, GA 31210

| Revisions: |  |
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Sheet Title:  
THIRD FLOOR  
MECHANICAL  
PLAN

Project #: 2229      Date: 04/18/2025

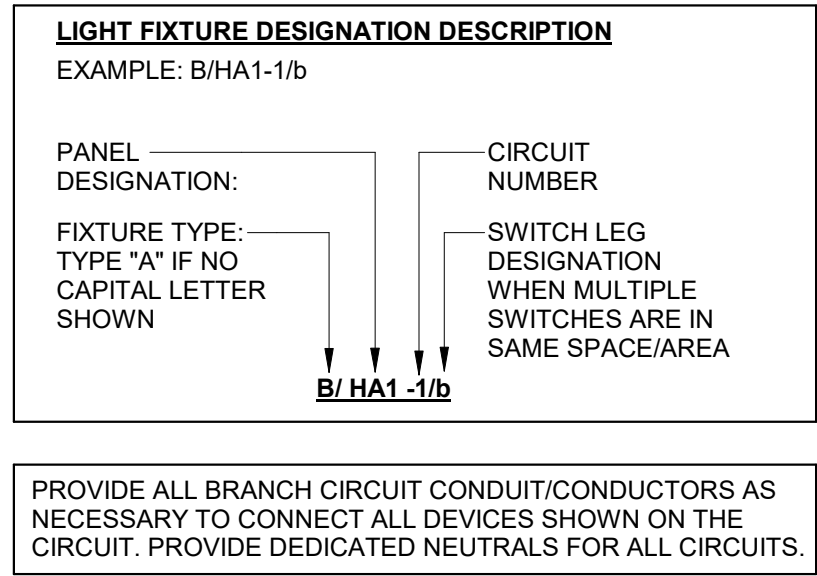
**M3.0**



GENERAL NOTES:

- DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS.
- MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.
- THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.
- 112

 SYMBOL INDICATING ROOM OR SPACE NUMBER.
- IN AREAS WHERE COMPUTER OUTLETS AND TELEPHONE OUTLETS ARE LOCATED BENEATH A WINDOW, AND WINDOW PREVENTS THE ROUTING OF CONDUIT UP TO CEILING SPACE, CONDUIT SHALL BE ROUTED TO A WALL WHICH ALLOWS CONDUIT TO RISE UP TO CEILING SPACE.
- ALL CONDUIT ROUTED FROM DISCONNECT TO EXTERIOR HVAC UNITS SHALL BE ROUTED UNDERGROUND. TURN UP ADJACENT TO UNIT AND MAKE TRANSITION TO SEALTITE TO SERVE UNIT. CONDUIT SHALL BE ROUTED CONCEALED IN WALL.
- ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4" IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE.
- ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SUPPORT WIRES IS NOT ACCEPTABLE.
- ALL EXTERIOR DISCONNECTS SHALL BE RATED NEMA 3R.
- COORDINATE EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH DIVISION 23 PRIOR TO ROUGH IN. ADJUST LOCATION OF DISCONNECTING MEANS AND BRANCH CIRCUITRY AS REQUIRED.
- PRIOR TO PROJECT COMPLETION, ELECTRICAL CONTRACTOR SHALL OBTAIN FINAL SPACE NUMBERS FROM OWNER AND/OR ARCHITECT. TYPEWRITTEN PANELBOARD DIRECTORIES SHALL REFLECT SPACE DESIGNATION OF EACH CIRCUIT. NO EXCEPTIONS.
- REFER TO SPECIFICATIONS FOR HANGER SUPPORT WIRES REQUIRED FOR FIXTURES.
- ALL CONDUIT ROUTED FROM SLAB UP TO PANELS AND EXPOSED CONDUIT ROUTED BELOW +48" A.F.F. SHALL BE GALVANIZED RIGID STEEL.
- PRIOR TO ROUGH-IN OF OUTLETS, COORDINATE AN ON SITE MEETING TO REVIEW EXACT LOCATIONS WITH FURNITURE PLAN.
- ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL STRINGS.
- ALL FIRE ALARM CONDUIT, JUNCTION BOXES, AND J-BOX COVERS SHALL BE RED IN COLOR.
- OUTLETS SERVING ELECTRIC WATER COOLERS SHALL BE LOCATED BEHIND UNIT. SEE DETAIL. BREAKER SERVING EWC SHALL BE GFCI BREAKER.
- FLOOR BOXES SHALL ONLY BE USED IN SLAB ON GRADE LOCATIONS. ON SECOND FLOOR, USE A "POKE-THRU" DEVICE AS NOTED.
- ALL WIRING DEVICE COVERPLATES SHALL BE HAND LABELED ON BACK OF COVERPLATE. LABELING SHALL BE PERMANENT MARKER, LEGIBLE, AND NOTE PANEL/CIRCUIT NUMBER SERVING DEVICE.
- ALL EMPTY CONDUITS SHALL HAVE PULLSTRINGS INSTALLED. CAP OFF ALL STUB UP CONDUIT, INSTALL LABEL NOTING LOCATION OF CONDUIT STUB OUT.



LEGEND

|  | LIGHTING AND POWER   |
|--|--|
|  | CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL. CONTAINING 3 NUMBER 12 CONDUCTORS UNLESS SHOWN OTHERWISE. HASH MARKS, IF SHOWN, INDICATE QUANTITY OF NUMBER 12 CONDUCTORS. WHERE DRAWING SPACE PROHIBITS HASH MARKS BEING SHOWN REFER TO CIRCUIT NUMBERS AND PROVIDE REQUIRED NUMBER OF CONDUCTORS PER CIRCUIT TYPE.   |
|  | CONDUIT RUN CONCEALED IN OR BELOW FLOOR SLAB, OR UNDERGROUND.  |
|  | HOMERUN TO PANELBOARD, LETTER OR LETTERS INDICATE PANELBOARDS, NUMBERS INDICATE CIRCUIT NUMBERS.   |
|  | EXPOSED CONDUIT RUN.   |
|  | L.E.D. LIGHTING FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.  |
|  | EMERGENCY L.E.D. LIGHTING FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS, MOUNTING TYPE. PROVIDED WITH 90 MINUTE BATTERY PACK.   |
|  | L.E.D. FIXTURE, SURFACE OR STEM MOUNTED.   |
|  | L.E.D. TROFFER FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.   |
|  | LIGHT FIXTURE, SEE SCHEDULE FOR MOUNTING AND TYPE. PROVIDED WITH 1100 LUMEN, 90 MINUTE BATTERY PACK.   |
|  | L.E.D. LIGHTING FIXTURE, WALL BRACKET MOUNTED. PROVIDED WITH 90 MINUTE BATTERY PACK. MOUNTING HEIGHT AS NOTED.   |
|  | L.E.D. LIGHTING FIXTURE, SURFACE WALL BRACKET MOUNTED. MOUNTING HEIGHT AS NOTED.   |
|  | L.E.D. LIGHTING FIXTURE, SURFACE WALL BRACKET MOUNTED. PROVIDED WITH 90 MINUTE BATTERY PACK. MOUNTING HEIGHT AS NOTED.   |
|  | L.E.D. CHANDELIER OR PENDANT FIXTURE. CEILING PENDANT MOUNTED.   |
|  | EMERGENCY PACK FIXTURE.  |
|  | JUNCTION BOX LOCATED ABOVE CEILING OR BELOW GRADE.   |
|  | JUNCTION BOX, FLUSH WALL MOUNTED.  |
|  | DUPLEX CONVENIENCE OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.   |
|  | DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER, AT +46" TO CENTERLINE OF OUTLET. "U" INDICATES OUTLET WITH USB CHARGER.   |
|  | DUPLEX CONVENIENCE OUTLET, GFI TYPE, +18" TO CENTER LINE UNLESS OTHERWISE NOTED. "WP" WHERE SHOWN INDICATES WEATHER-RESISTENT DEVICE WITH METAL IN-USE WEATHERPROOF COVER.   |
|  | DUPLEX CONVENIENCE OUTLET, GFI TYPE, MOUNTED ABOVE COUNTER AT +46" TO CENTERLINE OF RECEPTACLE UNLESS NOTED OTHERWISE.   |
|  | SPECIAL RECEPTACLE TO SUIT EQUIPMENT FURNISHED.  |
|  | QUADRUPLEX RECEPTACLE, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.   |
|  | FLUSH FLOOR BOX WITH QUADRUPLEX RECEPTACLE AND DATA/VOICE OUTLET. PROVIDE 3/4" CONDUIT FOR POWER AND SEE FLOOR PLANS FOR DATA/VOICE CONDUIT REQUIREMENTS.  |
|  | FLUSH FLOOR BOX WITH QUADRUPLEX RECEPTACLE AND PROVISIONS FOR LOW VOLTAGE CONNECTIONS AS NOTED ON DRAWINGS. PROVIDE 3/4" CONDUIT FOR POWER AND SEE FLOOR PLANS FOR DATA/VOICE CONDUIT REQUIREMENTS.  |
|  | SINGLE POLE TOGGLE SWITCH, +46" TO CENTER LINE MOUNTING HEIGHT.  |
|  | THREE OR FOUR WAY SWITCH AS INDICATED, +46" TO CENTER LINE MOUNTING HEIGHT.  |
|  | LED DECORA STYLE DIMMER WITH ROCKER ON/OFF SWITCH AND SLIDE DIMMER ON SIDE OF ROCKER. 0-10VDC CAPABLE DIMMER +3'-6" MOUNTING HEIGHT. LUTRON "DIVA 0-10V" OR EQUAL BY LEVITON, WATTSTOPPER, HUBBELL, OR COOPER. DIVISION 26 SHALL PROVIDE ALL ADDITIONAL CONDUCTORS TO ALL FIXTURES CONNECTED FOR A PROPER 0-10VDC OPERATION. (MANUAL ON TO 50%, DIM 1-100%, AUTO OFF PER IECC 2015.) MUST BE COMPATIBLE OCC. SENSOR AND POWER PACK.            |
|  | LED DECORA STYLE DIMMER WITH ROCKER ON/OFF SWITCH AND SLIDE DIMMER ON SIDE OF ROCKER. 0-10VDC CAPABLE THREE WAY DIMMER, +3'-6" MOUNTING HEIGHT. LUTRON "DIVA 0-10V" OR EQUAL BY LEVITON, WATTSTOPPER, HUBBELL, OR COOPER. DIVISION 26 SHALL PROVIDE ALL ADDITIONAL CONDUCTORS TO ALL FIXTURES CONNECTED FOR A PROPER 0-10VDC OPERATION. (MANUAL ON TO 50%, DIM 1-100%, AUTO OFF PER IECC 2015.) MUST BE COMPATIBLE OCC. SENSOR AND POWER PACK. |
|  | PANELBOARD, SEE SCHEDULE.  |
|  | DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS. FUSED PER MANUFACTURER'S NAME PLATE DATA OF EQUIPMENT SERVED.  |

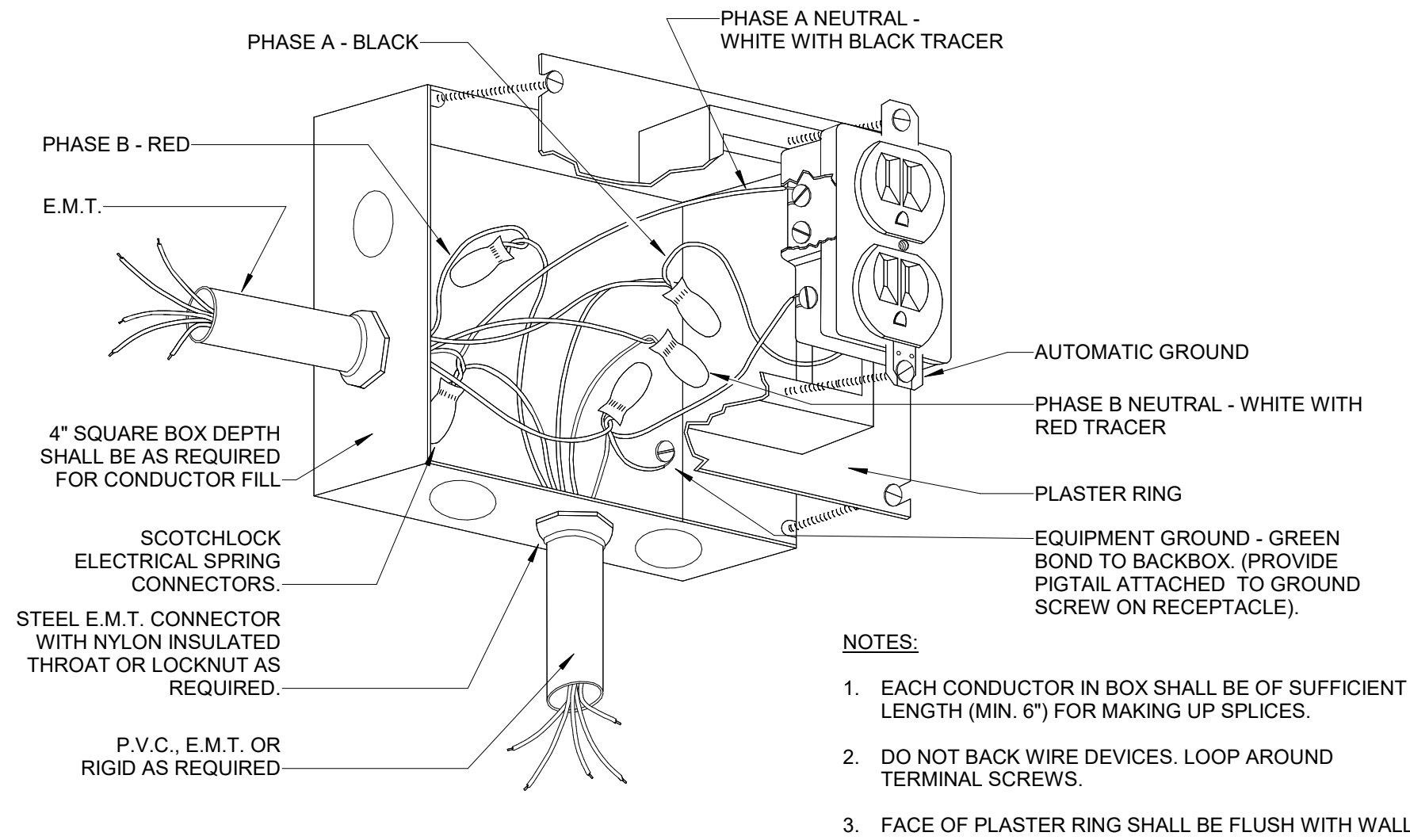
SHELF STOCK

- SHELF STOCK ITEMS TO BE PLACED AT A LATER DATE (INCLUDING FULL INSTALLATION AND REQUIRED BRANCH CIRCUITRY - MIN 50 FT EACH):
- 10 EXIT SIGNS
  - 10 CEILING OCCUPANCY SENSORS WITH ASSOCIATED POWER PACKS
  - 6 CEILING SMOKE DETECTORS
  - 10 ADDITIONAL SPEAKER/STROBE DEVICES
  - 10 DUPEX OUTLETS GFCI TYPE
  - 10 DATA/TEL COMBO OUTLETS WITH CONDUIT TO ABOVE CEILING
  - 4 ADDITIONAL 3/4 WAY SWITCHES

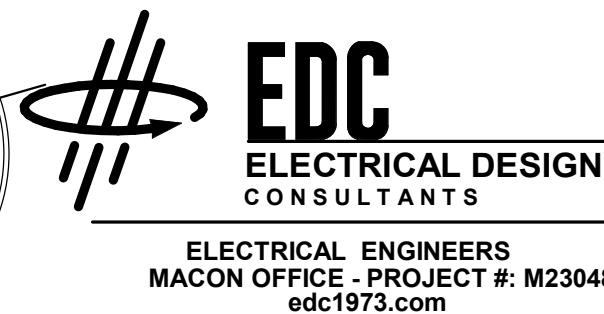
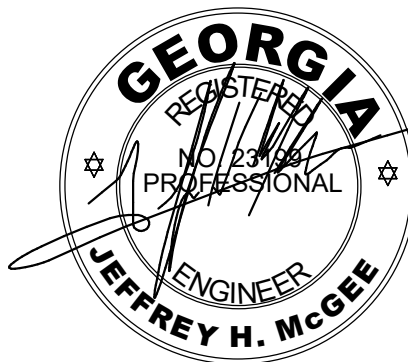
TELEPHONE / DATA SYSTEMS (RACEWAY, BOXES AND PULL STRINGS ONLY)

|                                      |   |
|--------------------------------------|---|
|                                      | PLYWOOD BACKBOARD "TB" INDICATES TELECOMMUNICATIONS BOARD.  |
|                                      | COMBINATION VOICE/DATA OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.   |
|                                      | COMBINATION VOICE/DATA OUTLET, +46" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.   |
|                                      | DATA OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.   |
|                                      | DATA OUTLET, +46" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1"C. TO CEILING SPACE ABOVE.   |
|                                      | DATA OUTLET, (WIRELESS ACCESS POINT), +6" ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. WHERE THERE IS NO CEILING OR HIGH CEILING, WALL MOUNT AT +11" A.F.F.   |
|                                      |   |
| OCCUPANCY SENSORS                    |   |
|                                      | SWITCH, WALL MOUNTED OCCUPANCY SENSOR (WATTSTOPPER PW-100 OR EQUAL), +46" TO CENTER LINE MOUNTING HEIGHT.   |
|                                      | DUAL TECHNOLOGY 360° OCCUPANCY SENSOR. CEILING MOUNTED. INFRARED/ULTRASONIC (WATTSTOPPER "DT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.) V INDICATES VACANCY SENSOR. UNIT MUST COMPLY WITH IECC 2015 REQUIREMENTS.) W=WALL MTD. |
|                                      | ULTRASONIC HALLWAY OCCUPANCY SENSOR. CEILING MOUNTED. (WATTSTOPPER "WT-2255" OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.)  |
|                                      |   |
| FIRE ALARM SYSTEM (VOICE EVACUATION) |   |
|                                      | VOICE EVACUATION SIGNAL, SPEAKER, AND STROBE LIGHT, +6'-10" MOUNTING HEIGHT TO CENTER OF DEVICE   |
|                                      | STROBE LIGHT, 6'-10" MOUNTING HEIGHT TO CENTER OF DEVICE.   |
|                                      | PULL STATION. WALL MOUNTED +46" TO CENTER LINE MOUNTING HEIGHT.   |
|                                      | FIRE ALARM CONTROL PANEL. SURFACE WALL MOUNTED.   |
|                                      | FIRE ALARM LCD REMOTE ALPHANUMERIC ANNUNCIATOR. FLUSH WALL MOUNTED.   |
|                                      | HEAT DETECTOR, CEILING MOUNTED.   |
|                                      | SMOKE DETECTOR, CEILING MOUNTED.  |
|                                      | DUCT SMOKE DETECTOR, LOCATED AT HVAC UNIT OR UP STREAM OF SMOKE DAMPER. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS PRIOR TO ROUGHING IN.  |
|                                      | TAMPER SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.   |
|                                      | FLOW SWITCH, FURNISHED AND INSTALLED WITH SPRINKLER SYSTEM. INTERLOCK WITH FIRE ALARM SYSTEM BY ELECTRICAL.   |
|                                      | POST INDICATOR VALVE.   |

- NOTE:
- ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR DEVICE.
  - ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").



1  
E1.1  
DETAIL - RECEPTACLE CONNECTION  
NO SCALE



| Revisions: |  |
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Sheet Title:  
LEGEND, NOTES  
AND DETAILS

Project #: 2229      Date: 04/18/2025



COMcheck Software Version 4.1.5.5

## Interior Lighting Compliance Certificate

### Project Information

Energy Code: 2015 IECC  
Project Title: Office Renovation For Vilties Holdings LLC  
Project Type: Alteration

Construction Site:  
4351 Forsyth Rd.  
Macon, GA 31210

Owner/Agent:  
Vilties Holdings LLC  
4351 Forsyth Rd.  
Macon, GA 31210

Designer/Contractor:  
DUNWOODY/BEELAND  
ARCHITECTS, INC.  
300 Mulberry St.  
Suite 604  
Macon, GA 31201  
478.743.5321

### Allowed Interior Lighting Power

| A<br>Area Category   | B<br>Floor Area<br>(ft <sup>2</sup> ) | C<br>Allowed<br>Watts / ft <sup>2</sup> | D<br>Allowed Watts<br>(B X C) |
|----------------------|---------------------------------------|---|-------------------------------|
| 1-Health Care-Clinic | 35725                                 | 0.90                                    | 32152                         |
|                      |                                       | Total Allowed Watts =                   | 32153                         |

### Proposed Interior Lighting Power

| A<br>Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B<br>Lamps/<br>Fixture | C<br># of<br>Fixtures | D<br>Fixture<br>Watt. | E<br>(C X D) |
|---|------------------------|-----------------------|-----------------------|--------------|
| <b>Health Care-Clinic (35725 sq.ft.)</b>                          |                        |                       |                       |              |
| LED 1: A: 2x4 Troffer: LED Panel 44W:                             | 1                      | 7                     | 45                    | 315          |
| LED 3: B: 2x4 Flat Panel: LED Panel 44W:                          | 1                      | 8                     | 47                    | 376          |
| LED 4: C: 4 ft. Strip: LED Other Fixture Unit 40W:                | 1                      | 18                    | 42                    | 756          |
| LED 5: D: 6 in. Downlight: LED Other Fixture Unit 25W:            | 1                      | 45                    | 23                    | 1035         |
| LED 6: D3: 6 in. Downlight: LED Other Fixture Unit 25W:           | 1                      | 16                    | 23                    | 368          |
| LED 7: D6: 6 in. Downlight: LED Other Fixture Unit 25W:           | 1                      | 1                     | 23                    | 23           |
| LED 8: E": 4 in. Slot: Other:                                     | 1                      | 1000                  | 9                     | 8700         |
| LED 8 A: E": 4 in. Slot: Other:                                   | 1                      | 712                   | 9                     | 6194         |
| LED 9: EP": 4 in. Slot: Other:                                    | 1                      | 8                     | 9                     | 70           |
| LED 10: F": 4 in. Slot: Other:                                    | 1                      | 319                   | 9                     | 2775         |
| LED 11: G": 2 in. Slot: Other:                                    | 1                      | 94                    | 10                    | 931          |
| LED 12: GP": 2 in. Slot: Other:                                   | 1                      | 30                    | 10                    | 297          |
| LED 13: H: 5 in. Dia. Glass Pendant: Other:                       | 1                      | 5                     | 3                     | 15           |
| LED 14: J: 36 in. Chandelier: LED Other Fixture Unit 60W:         | 1                      | 7                     | 60                    | 420          |
| LED 15: K: Cove Light: Other:                                     | 1                      | 468                   | 7                     | 3136         |
| LED 16: L: 4 ft. Stairwell: LED Panel 40W:                        | 1                      | 12                    | 40                    | 480          |
| LED 17: M: 5 in. Cylinder Pendant: Other:                         | 1                      | 18                    | 32                    | 576          |
| LED 18: M2: 5 in. Cylinder Pendant: Other:                        | 1                      | 2                     | 32                    | 64           |
| LED 19: N: 9 in. Pendant: Other:                                  | 1                      | 35                    | 21                    | 735          |
| LED 20: P: Glass Pendant: Other:                                  | 1                      | 20                    | 50                    | 1000         |
| LED 21: Q: Hexagon Pendant: Other:                                | 1                      | 31                    | 54                    | 1674         |

Project Title: Office Renovation For Vilties Holdings LLC  
Data filename: Z:\2023 CAD\M23048 Avilys Sleep Study Center\WORKING  
DRAWINGS\ELEC\LIGHTING\CALCULATIONS\M23048 ComCheck.cck  
Report date: 04/16/25  
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| A<br>Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B<br>Lamps/<br>Fixture | C<br># of<br>Fixtures  | D<br>Fixture<br>Watt. | E<br>(C X D) |
|---|------------------------|------------------------|-----------------------|--------------|
| LED 22: R: 3 Cluste Downlight: Other:                             | 1                      | 7                      | 8                     | 56           |
| LED 23: S: 12 in. Cylinder Pendant: Other:                        | 1                      | 58                     | 14                    | 812          |
| LED 24: T1: 35 in. Dia. Pendant: Other:                           | 1                      | 7                      | 15                    | 105          |
| LED 25: T2: 47 in. Dia. Pendant: Other:                           | 1                      | 14                     | 25                    | 350          |
| LED 26: T3: 35 in. Dia. Pendant: Other:                           | 1                      | 12                     | 25                    | 300          |
| LED 27: U: 12 in. High Felt Pendant: Other:                       | 1                      | 4                      | 15                    | 60           |
| LED 28: V: Wall Sconce: Other:                                    | 1                      | 10                     | 10                    | 100          |
|   |                        | Total Proposed Watts = | 31722                 |              |

### Interior Lighting PASSES

#### Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee - Electrical Engineer  
Name: Title Signature Date 04/16/2025

Project Title: Office Renovation For Vilties Holdings LLC  
Data filename: Z:\2023 CAD\M23048 Avilys Sleep Study Center\WORKING  
DRAWINGS\ELEC\LIGHTING\CALCULATIONS\M23048 ComCheck.cck  
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## LIGHTING FIXTURE SCHEDULE

|     |   |  |
|-----|---|--|
| A   | 2 FT. X 4 FT. RECESSED CONTEMPORARY LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING.<br>LAMPS: LED, 4800 LUMENS MINIMUM, 45 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLT  | LITHONIA "STAKP" SERIES                      |
| B   | 2 FT. X 4 FT. RECESSED BACK LIT FLAT PANEL; ALUMINUM FRAME CONSTRUCTION; SATIN WHITE LENS FOR FULLY LUMINOUS APPEARANCE<br>LAMPS: LED, 4800 LUMENS MINIMUM, 47 WATTS, 4000 DEGREE K.<br>DRIVER: UNV. VOLTAGE  | LITHONIA "CPX" SERIES                        |
| C   | 4 FT LED STRIPLIGHT, WITH FROSTED DIFFUSE LENS, SURFACE/PENDANT MOUNTED, STANDARD 0-10 DIMMING.<br>LAMPS: LED, 5000 LUMENS, 42 WATTS, 4000 DEGREE K.<br>DRIVER: UNV. VOLTAGE  | LITHONIA "CLX" SERIES                        |
| D   | COMMERCIAL DOWNLIGHT, RECESSED SELF FLANGED, 4 IN. APERTURE CLEAR SPECULAR LOW IRIDESCENT REFLECTOR; ACCESS FROM BELOW OR ABOVE CEILING; STANDARD 0-10 DIMMING. GYP CEILING MOUNTED.<br>LAMPS: LED, 2000 LUMENS, 23 WATTS, 4000 DEGREE K.<br>DRIVER: UNV. VOLTAGE   | LITHONIA "LDN6" SERIES                       |
| D3  | 3000K COMMERCIAL DOWNLIGHT, RECESSED SELF FLANGED, 4 IN. APERTURE CLEAR SPECULAR LOW IRIDESCENT REFLECTOR; ACCESS FROM BELOW OR ABOVE CEILING; STANDARD 0-10 DIMMING. GYP CEILING MOUNTED.<br>LAMPS: LED, 2000 LUMENS, 23 WATTS, 3000 DEGREE K.<br>DRIVER: UNV. VOLTAGE   | LITHONIA "LDN6" SERIES                       |
| DG  | COMMERCIAL DOWNLIGHT, RECESSED SELF FLANGED, 4 IN. APERTURE CLEAR SPECULAR LOW IRIDESCENT REFLECTOR; ACCESS FROM BELOW OR ABOVE CEILING; STANDARD 0-10 DIMMING. GRID CEILING MOUNTED.<br>LAMPS: LED, 2000 LUMENS, 23 WATTS, 4000 DEGREE K.<br>DRIVER: UNV. VOLTAGE  | LITHONIA "LDN6" SERIES                       |
| E*  | RECESSED 4" SLOT FIXTURE, NOMINAL AND CONTINUOUS ROWS INSTALLATION, UPPER HOUSING STEEL WITH EXTRUDED ALUMINUM CEILING TRIM, TRANSMISSIVE SATIN ACRYLIC LENS. PROVIDE REQUIRED HARDWARE FOR GRID CEILING MOUNTING. * SEE LIGHTING PLANS FOR LENGTHS.<br>LAMPS: LED, 1000 LUMENS/FT, 8.7 WATTS/FT, 4000 DEGREE K<br>DRIVER: UNV. VOLTAGE     | LUMENWERX VIA 4                              |
| EP* | PENDANT MOUNTED 4" SLOT FIXTURE, NOMINAL AND CONTINUOUS ROWS INSTALLATION, TRANSMISSIVE SATIN ACRYLIC LENS. PROVIDE REQUIRED HARDWARE FOR PENDANT MOUNTING. * SEE LIGHTING PLANS FOR LENGTHS.<br>LAMPS: LED, 1000 LUMENS/FT, 8.7 WATTS/FT, 4000 DEGREE K<br>DRIVER: UNV. VOLTAGE  | LUMENWERX VIA 4                              |
| F*  | RECESSED 4" SLOT FIXTURE, NOMINAL AND CONTINUOUS ROWS INSTALLATION, UPPER HOUSING STEEL WITH EXTRUDED ALUMINUM CEILING TRIM, TRANSMISSIVE SATIN ACRYLIC LENS. PROVIDE REQUIRED HARDWARE FOR GYPBOARD CEILING MOUNTING. * SEE LIGHTING PLANS FOR LENGTHS.<br>LAMPS: LED, 1000 LUMENS/FT, 8.7 WATTS/FT, 4000 DEGREE K<br>DRIVER: UNV. VOLTAGE | LUMENWERX VIA 4                              |
| G*  | RECESSED 2" SLOT FIXTURE, NOMINAL AND CONTINUOUS ROWS INSTALLATION, UPPER HOUSING STEEL WITH EXTRUDED ALUMINUM CEILING TRIM, TRANSMISSIVE SATIN ACRYLIC LENS. PROVIDE REQUIRED HARDWARE FOR GYPBOARD CEILING MOUNTING. * SEE LIGHTING PLANS FOR LENGTHS.<br>LAMPS: LED, 1000 LUMENS/FT, 9.9 WATTS/FT, 4000 DEGREE K<br>DRIVER: UNV. VOLTAGE | LUMENWERX VIA 2                              |
| GP* | PENDANT MOUNTED 2" SLOT FIXTURE, NOMINAL AND CONTINUOUS ROWS INSTALLATION, UPPER HOUSING STEEL, TRANSMISSIVE SATIN ACRYLIC LENS. PROVIDE REQUIRED HARDWARE FOR PENDANT MOUNTING. * SEE LIGHTING PLANS FOR LENGTHS.<br>LAMPS: LED, 1000 LUMENS/FT, 9.9 WATTS/FT, 4000 DEGREE K<br>DRIVER: UNV. VOLTAGE                                       | LUMENWERX VIA 2                              |
| H   | ARCHITECTURAL GLASS SMALL PENDANT MOUNTED, 5 IN. DIAMETER; COORDINATE STEM LENGTH WITH ARCHITECT. SHORT CONE SUSPENDED PENDANT.<br>LAMPS: LED, 133 LUMENS, 3 WATTS, 4000 DEGREE K<br>DRIVER: 120 VOLT   | BLACKJACK LIGHTING<br>SP-COS-RR-02-PC-40K-5W |
| J   | CHANDELIER 36" PENDANT, CUSTOM ACRYLIC LIGHT GUIDES, GLARE FREE LIGHT. ADJUSTABLE STEM KIT.<br>LAMPS: LED, 3200 LUMENS, 60W<br>DRIVER: 120 VOLT   | BLACKJACK LIGHTING<br>IRD-36C-PC-27U-40K-SP5 |
| K   | LOW PROFILE CEILING COVE, EXTRUDED ALUMINUM, FAR THROW LENS. 90+ CRI. SEE FLOOR PLANS FOR REQUIRED LENGTHS.<br>LAMPS: LED, 750 LUMENS/FOOT, 6.7 WATTS/FOOT, 4000 DEGREE K<br>DRIVER: 120 VOLT   | VODE "ZIPWAVE 707"                           |
| L   | 4 FT LED STAIRWELL FIXTURE, SURFACE MOUNTED HORIZONTAL OR VERTICAL, IMPACT LINEAR FACETED REFRACTOR AND DIECAST END CAPS FOR ADDED DURABILITY<br>LAMPS: LED, 4000 LUMENS MINIMUM, 40 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLT  | LITHONIA "WL4" SERIES                        |
| M   | ARCHITECTURAL CYLINDER, PENDANT, 5 IN. ROUND, 4FT LONG TUBE, FROSTED WHITE ACRYLIC DIFFUSER. COORDINATE STEM LENGTH WITH ARCHITECT.<br>LAMPS: LED, 4400 LUMENS, 32 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLT  | OCL ARCHITECTURAL LIGHTING<br>"TB5" SERIES   |
| M2  | ARCHITECTURAL CYLINDER, PENDANT, 5 IN. ROUND, 2FT LONG TUBE, FROSTED WHITE ACRYLIC DIFFUSER. COORDINATE STEM LENGTH WITH ARCHITECT.<br>LAMPS: LED, 4400 LUMENS, 32 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLT  | OCL ARCHITECTURAL LIGHTING<br>"TB5" SERIES   |
| N   | 9" PENDANT, MEDIUM BEAM DISTRIBUTION. MACHINED EXTRUDED ALUMINUM. COLOR SELECTION BY ARCHITECT. (EMRG. BATTERY IN SOME FIXTURES, SEE FLOOR PLANS)<br>LAMPS: LED, 3100 LUMENS MINIMUM, 21 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLTAGE   | FLUXWERX 9" PENDANT (TC1-P09)                |
| P   | BATHROOM PENDANT GLASS SPHERE. SELECTION BY OWNER/ARCHITECT<br>LAMPS: LED, 50 WATTS MAX, 4000 DEGREE K<br>DRIVER: UNV. VOLTAGE  | SELECTION BY ARCHITECT/OWNER                 |
| Q   | HEXAGON SUSPENDED PREDEFINED SHAPE, 6 SIDES, 6FT SUSPENSION, BLACK POWDERCOAT FINISH. W3 DISTRIBUTION (35 UP/65 DOWN).<br>LAMPS: LED, 2400 LUMENS/4 FOOT, 54 WATTS/FIXTURE, 4000 DEGREE K, 90 CRI<br>DRIVER: UNV. VOLTAGE   | FLUXWERX LINES LIGHTING<br>HEXAGON SUSPENDED |

|    |   |  |
|----|---|--|
| R  | CLUSTER OF 3 DOWNLIGHTS, RECESSED MOUNTED.<br>LAMPS: LED, 578 LUMENS, 8 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLT   | LUMENWERX CLUSTER 03   |
| S  | 12" HEIGHT BEVEL PENDANT CYLINDER, STATIC WHITE. 90 CRI.<br>LAMPS: LED, 1481 LUMENS, 14 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLT   | LUMENWERX AERA 5   |
| T1 | PENDANT 35" DIAMETER, 9MM THICK SOLA FELT STYLE B 8 FIN CONFIGURATION. PROVIDE TRIAC STYLE DIMMER SUCH AS LUTRON DV600P WHERE DIMMER IS SHOWN ON FLOOR PLANS. SEE FIXTURE MANUFACTURER.<br>LAMPS: LED, 600 LUMENS, 15 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLT   | LIGHTART ACOUSTIC ECHO<br>ACC-SHPE-ECHO-E358-B-EM-EP-<br>840CK-600LM-LV01-STD-WPC-WH   |
| T2 | PENDANT 47" DIAMETER, 9MM THICK SOLA FELT STYLE B 8 FIN CONFIGURATION. PROVIDE TRIAC STYLE DIMMER SUCH AS LUTRON DV600P WHERE DIMMER IS SHOWN ON FLOOR PLANS. SEE FIXTURE MANUFACTURER.<br>LAMPS: LED, 1500 LUMENS, 25 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLT  | LIGHTART ACOUSTIC ECHO<br>ACC-SHPE-ECHO-E478-B-EM-CG-<br>840CK-1500LM-LV01-STD-WPC-WH  |
| T3 | PENDANT 35" DIAMETER, 9MM THICK SOLA FELT STYLE B 12 FIN CONFIGURATION. PROVIDE TRIAC STYLE DIMMER SUCH AS LUTRON DV600P WHERE DIMMER IS SHOWN ON FLOOR PLANS. SEE FIXTURE MANUFACTURER.<br>LAMPS: LED, 1500 LUMENS, 25 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLT | LIGHTART ACOUSTIC ECHO<br>ACC-SHPE-ECHO-E3512-B-ML-CG-<br>840CK-1500LM-LV01-STD-WPC-WH |
| U  | PENDANT 12" HIGH ECO FELT ACOUSTIC PANEL. OPAL LENS INSERT, CIRCULAR INTERNAL LOUVER, ALUMINUM LUMINAIRE BODY WITH BUILT IN DRIVER.<br>LAMPS: LED, 1500 LUMENS, 15 WATTS, 4000 DEGREE K<br>DRIVER: UNV. VOLT  | EDISON LIGHTING GROUP<br>SONIC TUBE+   |
| V  | WALL SCONCE, INDIRECT LUMINAIRE. CNC MACHINED ALUMINUM, TRANSLUCENT FROSTED LENS. BLACK FINE TEXTURE FINISH.<br>LAMPS: LED, 757 LUMENS, 10 WATTS, 4000 DEGREE K<br>DRIVER: 120 VOLT   | EUREKA 3450  |
| ⊗  | LED THERMOPLASTIC EXIT, IMPACT/SCRATCH RESISTANT AND CORROSION PROOF. TOP, END, OR BACK MOUNTING STANDARD. (PROVIDE 90 MIN. BACK-UP BATTERY).<br>LAMPS: LED (2) 1.5W<br>DRIVER: UNV. VOLT   | LITHONIA "LQM" SERIES  |
| ⊕  | LED COMMODITY GRADE COMBO THERMOPLASTIC UNIT, IMPACT RESISTANT HOUSING. TOP OR BACK MOUNTING STANDARD.(PROVIDE 90 MIN. BACK-UP BATTERY).<br>LAMPS: LED (2) 1.5W<br>DRIVER: UNV. VOLT  | LITHONIA "XEM" SERIES  |
| ⏏  | LED 2 HEAD EMERGENCY UNIT. SQUARE HEADS. LOW PROFILE CONTEMPORARY DESIGN WITH THERMOPLASTIC HOUSING. IMPACT RESISTANT, DAMP LOCATION LISTED.(PROVIDE 90 MIN. BACK-UP BATTERY).<br>LAMPS: LED (2) 1.5W<br>DRIVER: UNV. VOLT  | LITHONIA "EU2C" SERIES   |
| Z  | ARCHITECTURAL LOW PROFILE OUTDOOR LED AC/EMERGENCY UNIT, SELF DIAGNOSTICS STANDARD.(PROVIDE 90 MIN. BACK-UP BATTERY).<br>LAMPS: LED (2) 3W<br>DRIVER: UNV. VOLT   | LITHONIA "AFO" SERIES  |

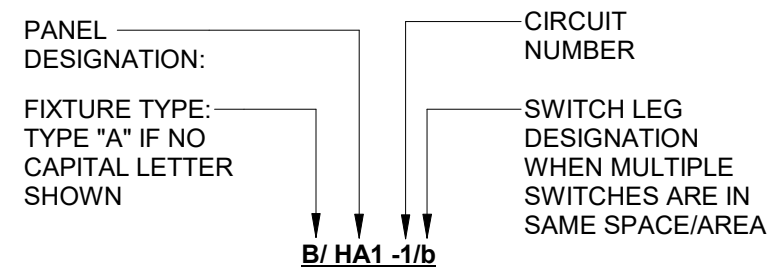
#### NOTES:

- CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE FIXTURE DIMENSION SIZE TO ENSURE A PROPER FIT IN ALL CEILING TYPES PRIOR TO ORDERING.
- ALL LUMENS LISTED ARE DELIVERED LUMENS. ALL EQUALS TO SPECIFIED FIXTURES SHALL NOT BE ANY LOWER THAN 5% OF SPECIFIED LUMENS. WATTAGE SHALL NOT BE HIGHER THAN 15% OF SPECIFIED WATTAGE.
- LISTING OF MANUFACTURERS DOES NOT EQUAL AUTOMATIC APPROVAL. ALL CHARACTERISTICS NOTED IN DESCRIPTION SECTION MUST BE MET IN ORDER TO BE APPROVED. WHERE VENDOR/REP. DOES NOT HAVE ONE MANUFACTURER LISTED, PRIOR APPROVAL IS REQUIRED TO BE SUBMITTED TO ENGINEER TEN (10) DAYS PRIOR TO BID.
- PROVIDE UNSWITCHED HOT TO EXIT SIGNS, EMERGENCY FLOOD LIGHTS AND EXTERIOR BUILDING EGRESS LIGHTING.

| WIRE COLOR CODE |         |         |
|-----------------|---------|---------|
| A/C             | 120/208 | 277/480 |
| PHASE A         | BLACK   | BROWN   |
| PHASE B         | RED     | ORANGE  |
| PHASE C         | BLUE    | YELLOW  |
| NEUTRAL         | WHITE   | GRAY    |
| GROUND          | GREEN   | GREEN   |

#### LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HA1-1/b



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

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## OFFICE RENOVATION FOR VILTIES HOLDINGS LLC

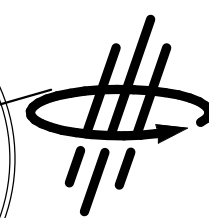
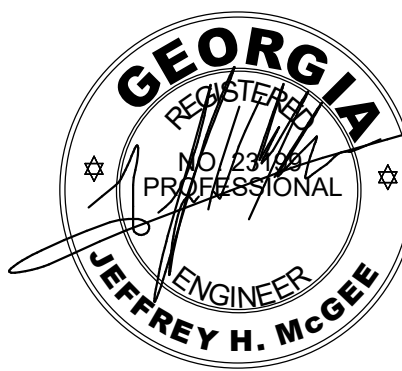
4951 FORSYTH ROAD, MACON, GA 31210

| Revisions: |  |
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Sheet Title:  
LIGHTING  
FIXTURE  
SCHEDULE

Project #: 2229  
Date: 04/18/2025

# E1.2



**EDC**  
ELECTRICAL DESIGN  
CONSULTANTS

ELECTRICAL ENGINEERS  
MACON OFFICE - PROJECT #: M23048  
edc1973.com



ELECTRICAL SPECIFICATIONS

DIVISION 26  
ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. THESE PLANS AND SPECIFICATIONS APPLY TO OFFICE RENOVATION FOR VILTIES HOLDINGS IN MACON, GEORGIA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
2. ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.
3. ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, GA ACCESSIBILITY CODE, STATE OF GEORGIA ENERGY CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
4. ALL PERMITS AND FEES SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH ITS LISTING.
6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.
7. THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS.
8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.
9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
10. PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.
11. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.
12. EQUIPMENT BREAKER AND WIRING REQUIREMENTS: THE CONTRACTOR SHALL SUBMIT FOR REVIEW A TABULATED SHEET OF BREAKER AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT REQUIRING POWER AS SPECIFIED IN DIVISION 23. REQUIREMENTS SHALL BE IDENTIFIED BY HORSEPOWER OR KW, OPERATING AMPERAGE, REQUIRED VOLTAGE AND PHASE REQUIREMENTS, AND MANUFACTURERS SUGGESTED OVERCURRENT CIRCUIT PROTECTION DEVICE SIZE, AND MINIMUM CIRCUIT AMPACITY SIZE. WHERE THE ELECTRICAL REQUIREMENTS SUBMITTED FOR MECHANICAL EQUIPMENT DIFFERS FROM THE BRANCH CIRCUITRY SHOWN ON THE ELECTRICAL DRAWINGS (WHEN USING THE BASIS OF DESIGN UNIT LISTED IN THE MECHANICAL SCHEDULES/SPECIFICATIONS OR A SIMILAR UNIT OF THE SAME SIZE FROM LISTED ALTERNATE MANUFACTURERS), THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE BRANCH CIRCUITRY PER THE CURRENT NEC AT NO ADDITIONAL COST TO THE OWNER. WHEN CHANGES ARE MADE TO POWER REQUIREMENTS FOR EQUIPMENT DUE TO OWNER, ARCHITECT/ENGINEER APPROVED VALUE ENGINEERING CHANGES TO EQUIPMENT, THE COST MUST NE INCLUDED IN THE VALUE ENGINEERING OVERALL CHANGE ORDER COST. COSTS DUE TO ADJUSTMENTS IN BRANCH CIRCUITRY TO EQUIPMENT DUE TO VALUE ENGINEERING CHANGES WILL NOT BE ALLOWED AFTER THE OVERALL VALUE ENGINEERING CHANGE ORDER HAS BEEN APPROVED. IN ALL CASES, BREAKER AND WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT MUST BE PROVIDED TO THE ENGINEER BEFORE OR AT THE SAME TIME AS THE SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT. IN NO CASE SHALL THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT BE ORDERED OR BRANCH CIRCUITRY ROUGHED IN PRIOR TO ENGINEER REVIEW AND COMMENT ON THIS DOCUMENT. ANY EQUIPMENT ORDERED OR BRANCH CIRCUITRY ROUGHED IN ON THE JOBSITE WITHOUT THIS REVIEW AND COMMENT WILL BE TOTALLY AT THE CONTRACTORS RISK.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THHN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS.
2. ALL INTERIOR 120/208 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR "MC" CABLE (IF NOT EXPOSED) FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. IF "MC" CABLE IS USED, HOMERUNS SHALL BE IN 3/4 IN. EMT. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN 3/4" ELECTRICAL METALLIC CONDUIT MINIMUM. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN EXPOSED STRUCTURE AREAS SHALL BE EMT. GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN AREAS WHERE IT WILL BE EXPOSED TO PHYSICAL DAMAGE.
3. CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC. IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER. WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALLIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE PROVIDED WITH INSULATED BUSHINGS.
4. A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES. ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER CONDUCTOR SIZED AS NOTED OR IN ACCORDANCE WITH THE NEC, WHICHEVER IS GREATER.
5. THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED IS 1/2 IN.
6. ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. COVERS OF BOXES SHALL BE LABELED WITH THE CIRCUIT NUMBER WITH A BLACK PERMANENT MARKER IN 3/4 IN. HIGH LETTERS (LEGIBLE HANDWRITTEN LETTERING IS ACCEPTABLE).
7. ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM MOUNTING SUPPORT FOR THE DEVICE.
8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR.
9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO SELECT COLOR.
10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.
11. PROVIDE BETWEEN 12 AND 24 INCHES OF LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN RIGID CONDUIT AND ANY EQUIPMENT CONTAINING MOTORS. THE FLEXIBLE CONDUIT SHALL BE SUPPORTED TO PREVENT THE CONDUIT FROM RESTING ON THE GROUND OR CONCRETE PAD.
12. PROVIDE WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF EACH PIECE OF EXTERIOR EQUIPMENT. THIS RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITH METAL HINGED "IN USE" COVER MOUNTED TO OPEN UP. THIS OUTLET SHALL BE A GFCI RECEPTACLE. THIS RECEPTACLE SHALL BE BE MOUNTED IN DIE CAST NON CORRODING METAL BOX.
13. WHEN OUTLETS OR BOXES ARE INDICATED INSTALLED ON OPPOSITE SIDES OF THE SAME WALL, THE CONTRACTOR SHALL ADJUST THE LOCATION TO OFFSET THE OUTLETS WITH A WALL STUD PROVIDING SEPERATION.

SECTION C: DISTRIBUTION EQUIPMENT

1. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.
2. SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE I ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.
3. ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS WITHIN TEN FEET OF THE UNIT UNLESS OTHERWISE NOTED. THIS DISCONNECTING MEANS SHALL AS A MINIMUM BE A NON-FUSED SWITCH OR TOGGLE STARTER SIZED TO MATCH THE EQUIPMENT. PROVIDE OTHER DEVICES AS NOTED ON THE PLANS. PROVIDE NEMA TYPE I ENCLOSURES INDOORS AND NEMA 3R OUTDOORS.
4. PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.
5. PROVIDE PANELS AS SCHEDULED ON PLANS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC BREAKERS WITH A MINIMUM INTERRUPTING RATING OF 10,000 AIC FOR 120/208V AND 14,000 AIC FOR 277/480V OR AS INDICATED ON THE PLANS. BREAKERS SHALL HAVE 65/75 DEGREE C RATED TERMINATIONS. PANEL NOTED SHALL BE SERVICE ENTRANCE RATED. MOUNT PANELS WITH TOP OF PANEL 6 FT. ABOVE FLOOR, PROVIDE 3/4 IN., GREY PAINTED PLYWOOD BACKBOARD FOR ALL PANELS SECURED TO WALL WITH 1/4 IN. TOGGLE BOLTS. PANEL MANUFACTURERS: SQUARE D, GE, SEIMENS, AND CULTER HAMMER. ALL CURRENT CARRYING PARTS SHALL BE COPPER.
6. SYSTEM COORDINATION: THE MANUFACTURER OF THE PANELBOARDS SHALL PROVIDE SERIES RATED EQUIPMENT BASED ON U.L. LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.
7. PROVIDE EACH PANELBOARD WITH A TYPEWRITTEN CIRCUIT BREAKER DIRECTORY CARD INSIDE A PLASTIC COVERING (EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY AND COVERING SHALL BE LOCATED INSIDE A STEEL FRAME PROVIDED INSIDE THE DOOR OF EACH PANELBOARD. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT BREAKER AND THE AREAS SERVED.
8. PROVIDE NAMEPLATES FOR ALL PANELBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BRAKERS, COMBINATION STARTERS, CONTACTORS, AND ALL OTHER ELECTRICAL DISTRIBUTION EQUIPMENT PANELS. MOUNT NAMEPLATES ON EXTERIOR OF THE DOOR OF ALL SURFACE MOUNTED PANELS AND EQUIPMENT. NAME PLATES SHALL BE LAMINATED PLASTIC PLATES WITH 3/16 IN. HIGH WHITE LETTERS ETCHED ON BLACK BACKGROUND. NAME PLATES SHALL BE INSTALLED PARALLEL TO EQUIPMENT LINES. THE NAME OR USAGE OF EACH DEVICE OR BRANCH CIRCUIT SHALL BE ETCHED IN THE NAMEPLATE. CONTRACTOR TO COORDINATE EXACT EQUIPMENT IDENTIFICATION WITH THE OWNER. SECURE NAMEPLATES VIA EPOXY GLUE.

SECTION D: LIGHTING

1. TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, DRIVERS, BALLASTS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.
2. ALL LIGHTING FIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBITING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.
3. RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.
4. BALLAST SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).
5. ALL LIGHTING FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED. FIXTURES, BALLAST AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFETIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 55,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
6. ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.
7. ALL RECESSED FIXTURES IN LAY IN TYPE CEILINGS SHALL BE PROVIDED WITH GRID CLIPS TO FASTEN FIRMLY TO CEILING SUPPORT GRID. THE CEILING GRID SHALL BE SUPPORTED AT EACH CORNER OF A FIXTURE.
8. CONNECTION TO ALL FIXTURES IN LAYIN CEILING SHALL BE BY FLEXIBLE CONDUIT OF FOUR TO SIX FEET IN LENGTH. A GROUND CONDUCTOR WILL BE INCLUDED WITH THIS CONNECTION.
9. ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.

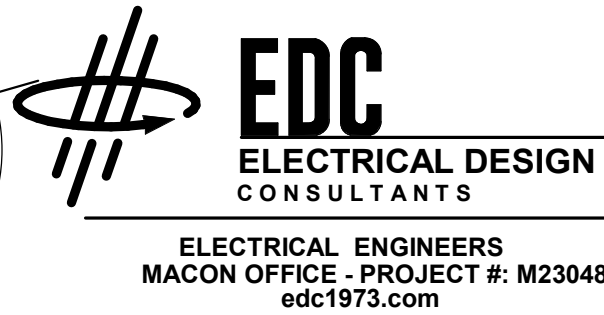
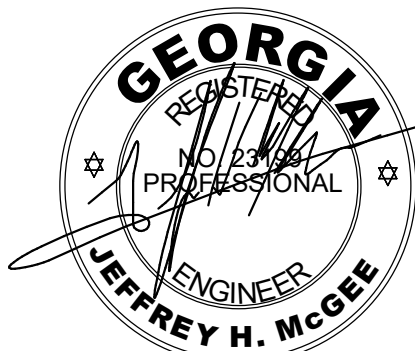
SECTION E: TELEPHONE/DATA SYSTEMS (RACEWAY, BOXES AND PULL STRINGS ONLY)

1. PROVIDE 1 IN. EMT FROM EACH OUTLET TO 12 INCHES ABOVE ACCESSIBLE CEILING WHERE APPLICABLE. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELEPHONE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED. PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
2. WHERE PLASTER OR UNACCESSABLE CEILINGS ARE PRESENT, PROVIDE 1 IN. EMT FROM EACH OUTLET TO TELEPHONE BACKBOARD OR TELEPHONE CONNECTION POINT AS DESCRIBED IN THE CONTRACT DOCUMENTS. PROVIDE 4 IN. SQUARE BACKBOX WITH SINGLE GANG PLASTER RING FOR EACH TELEPHONE/DATA OUTLET. ALL CONDUIT SHALL BE CONCEALED. PROVIDE FACEPLATE WITH MODULAR JACKS. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
3. THE MAIN PANEL SHALL HAVE A BATTERY BACKUP AND BE SURGE PROTECTED. THE BATTERY SHALL BE CAPABLE OF PROVIDING NORMAL OPERATION FOR A PERIOD OF 24 HOURS WITH ENOUGH RESERVE TO ANNUCIATE A BUILDING ALARM FOR 15 MINUTES.
4. NEW DEVICES SHALL BE PROVIDED WITH RECESSED METAL BOXES. ALL DEVICES SHALL BE MOUNTED FLUSH WITH WALL EXCEPT FOR PULL STATIONS WHICH SHALL BE SEMI-FLUSH.
5. NEW HORN/STROBE DEVICES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. THE SPEAKER SHALL PRODUCE A SOUND LEVEL OF 90 DECIBELS AND THE STROBE SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELA.
6. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA.

SECTION F: FIRE ALARM SYSTEM (VOICE EVACUATION)

1. ACCEPTABLE MANUFACTURERS: NOTIFIER, FIRE LITE, EDWARDS, SIMPLEX, OR SILENT KNIGHT.
2. PROVIDE A COMPLETE OPERABLE FIRE ALARM SYSTEM FOR THIS PROJECT. THE MAIN PANEL SHALL BE LOCATED AS SHOWN. THE FIRE ALARM SYSTEM SHALL BE DESIGNED FOR CLASS B OPERATION. THE WIRING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN 1/2 IN. ELECTRICAL METALLIC TUBING. PROVIDE INSULATED FITTINGS ON ALL CONDUIT ENDS. THE FIRE ALARM SHALL BE MADE IN THE USA AND BE UL LISTED. ALL WIRING AND DEVICES FOR THE SYSTEM SHALL BE SUPERVISED. COLOR CODE THE CONDUIT EVERY 24 IN. WITH RED MARKINGS (EXCEPT WHERE EXPOSED).
3. THE MAIN PANEL SHALL HAVE A BATTERY BACKUP AND BE SURGE PROTECTED. THE BATTERY SHALL BE CAPABLE OF PROVIDING NORMAL OPERATION FOR A PERIOD OF 24 HOURS WITH ENOUGH RESERVE TO ANNUCIATE A BUILDING ALARM FOR 15 MINUTES.
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6. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA.

7. NEW PULL STATIONS SHALL BE NON-GLASS-BREAK TYPE AND KEYED THE SAME AS THE FIRE ALARM PANEL.
8. THE SMOKE DETECTORS SHALL BE THE PHOTOELECTRIC TYPE POWERED FROM THE MAIN FIRE ALARM PANEL.
9. THE GENERAL BUILDING ALARM WILL SOUND WHEN ACTIVATED AT THE CONTROL PANEL, BY SMOKE OR HEAT DETECTORS, OR BY A PULL STATION. ALARM WILL ALSO SOUND WHEN ACTIVATED BY A DUCT SMOKE DETECTOR OR SPRINKLER.
10. THE MAIN PANEL SHALL PROVIDE INDICATION OF EACH INITIATING DEVICE LOCATION FOR ALARM, TROUBLE AND SUPERVISORY CONDITIONS. THE PANEL SHALL HAVE LAMP TEST, ALARM SILENCE, TROUBLE AND SUPERVISORY SILENCE, SYSTEM RESET, AND ALARM INITIATE CONTROLS. THE PANEL SHALL ALSO INDICATE VOLTAGE AND BATTERY TEST. THE PANEL SHALL ALSO INCLUDE AN LCD DISPLAY. PANEL SHALL BE IN A SURFACE MOUNTED ENCLOSURE WITH LOCLABLE, SEE THROUGH, HINGED FRONT COVER.
11. THE FIRE ALARM PANEL SHALL BE EQUIPPED WITH A DIGITAL TRANSMITTER AND CELLULAR COMMUNICATION FOR OFF PREMISES REMOTE MONITORING (FIRE DEPARTMENT) DURING ALARM CONDITION. PROVIDE 3/4 IN. CONDUIT FROM FIRE ALARM PANEL TO TELEPHONE BACKBOARD. FIELD COORDINATE.
12. PROVIDE (2) REMOTE ANNUNCIATOR PANELS AS SHOWN ON PLANS. THE ANNUNCIATOR PANEL SHALL BE PROVIDED WITH AN LCD DISPLAY AND COMPLETE CONTROL PUSH BUTTONS INCLUDING, BUT NOT LIMITED TO, ALARM ACKNOWLEDGE, ALARM SILENCE, RESET, ETC.



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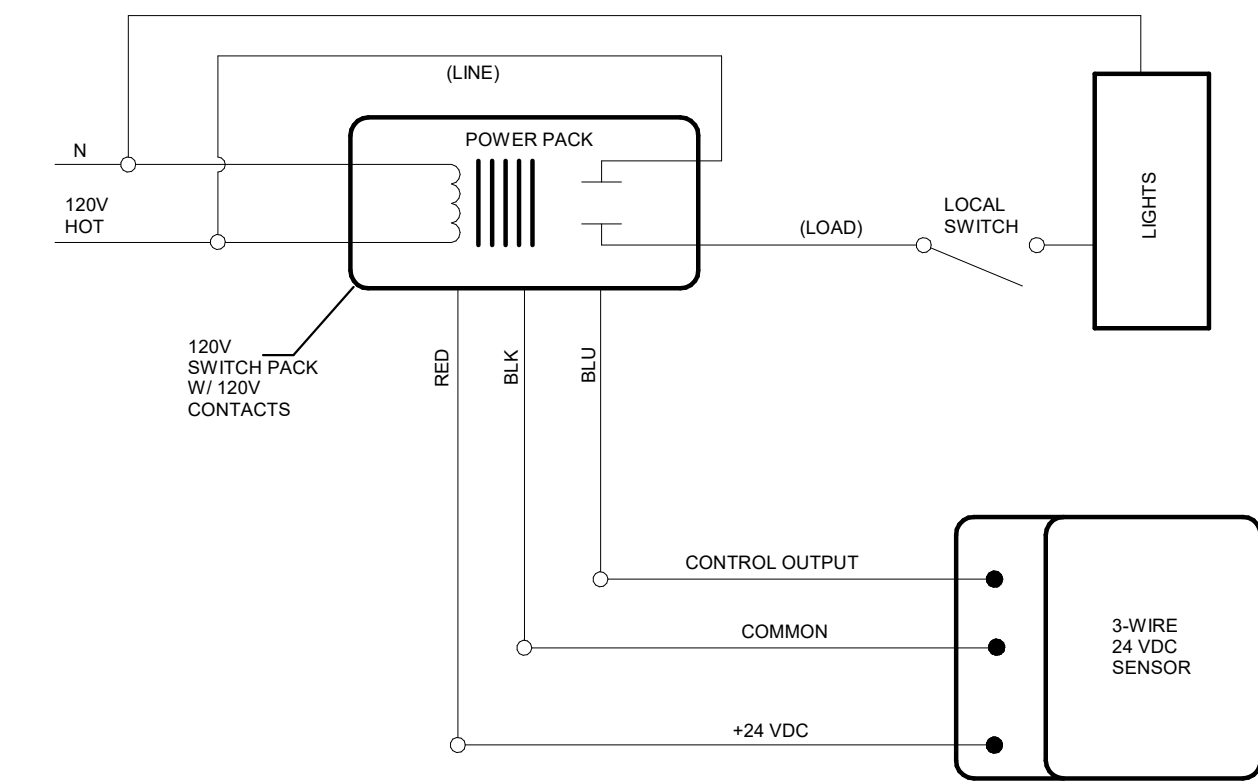
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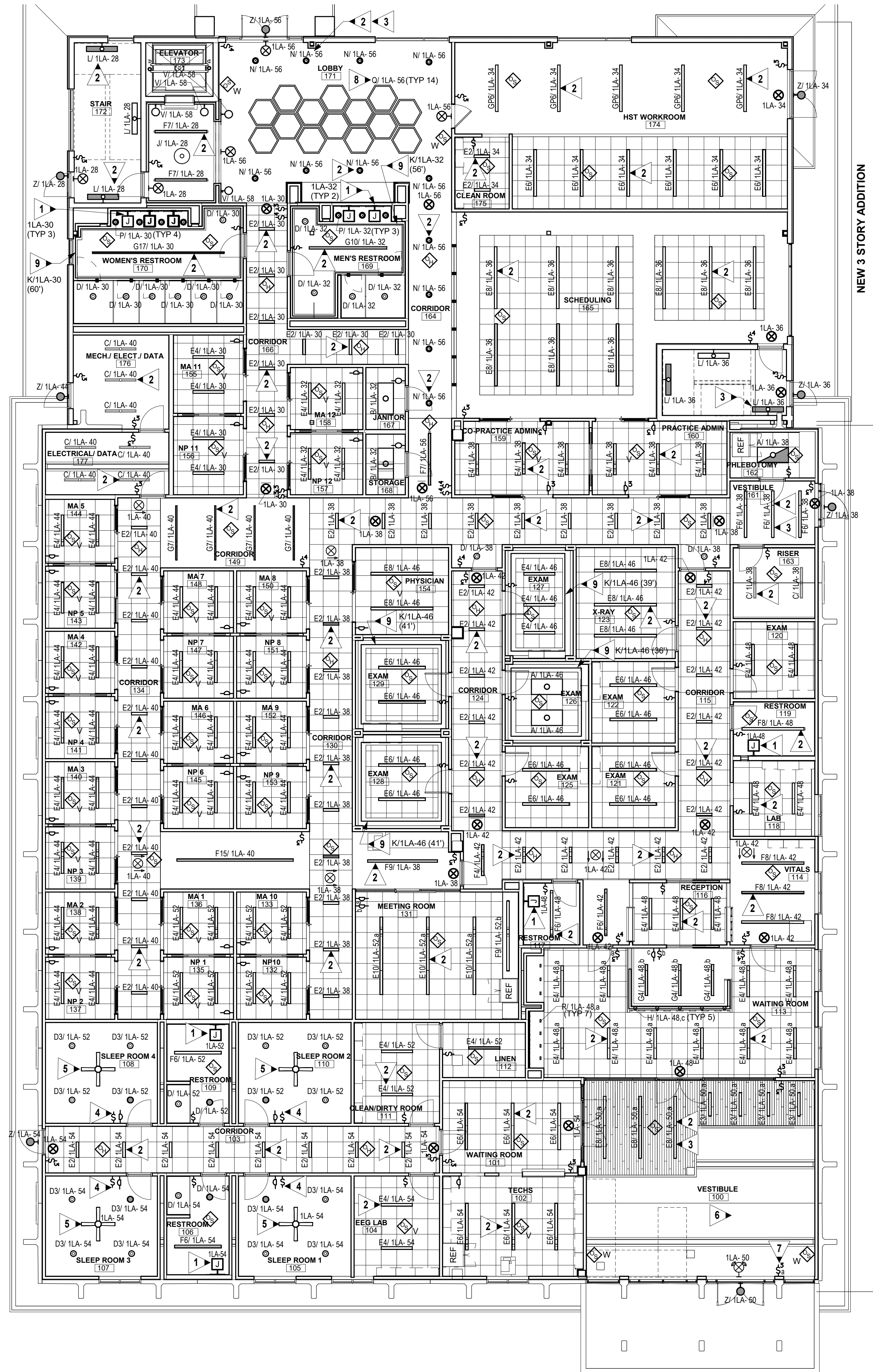
Sheet Title:  
SPECIFICATIONS

Project #: 2229      Date: 04/18/2025

E1.3



2 WIRING DIGRAM - SENSOR CONTROL - LIGHTING  
E2.1 NO SCALE



1 FIRST FLOOR PLAN - LIGHTING  
E2.1 SCALE: 1/8" = 1'-0"

### KEYED NOTES:

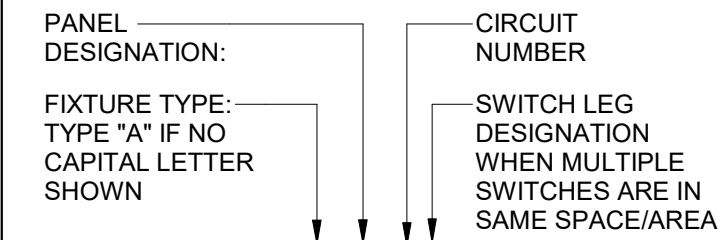
- 1 JUNCTION BOX WITH CIRCUITRY FOR MIRROR LIGHTING. COORDINATE MOUNTING HEIGHT WITH ARCHITECT AND MIRROR MANUFACTURER PRIOR TO ROUGH-IN. MIRROR LIGHT CONTROLLED IN SAME MANOR AS OTHER LIGHTING FIXTURES IN THE SAME ROOM.
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- 3 LIGHTING FIXTURE UTILIZED AS NIGHT LIGHT. DO NOT SWITCH LIGHTING FIXTURE, PROVIDE AN UNSWITCHED HOT.
- 4 SWITCH FOR FAN CONTROL. COORDINATE REQUIRED SWITCH TYPE AND FUNCTION OF FAN PRIOR TO ORDERING SWITCH. IF POSSIBLE PROVIDE ONE FACEPLATE FOR BOTH FAN SWITCH AND LIGHTING SWITCH. SEE KEYED NOTE 5.
- 5 CEILING FAN, PARAFLEX PF8-8700-52-LED-NK (BRUSHED NICKEL FINISH). COORDINATE CONTROL REQUIREMENTS WITH FAN MANUFACTURER. SEE KEYED NOTE 4.
- 6 FOR LIGHTING FIXTURES IN THIS AREA SEE E2.2.
- 7 SEE E2.2 FOR OTHER 3-WAY SWITCH CONTROLLING VESTIBULE LIGHTING.
- 8 COORDINATE WITH LIGHTING FIXTURE MANUFACTURER CIRCUITRY AND MOUNTING REQUIREMENTS PRIOR TO ROUGH-IN.
- 9 COVE MOUNTED LIGHTING FIXTURE TYPE K. FOR EXACT LENGTHS SEE ARCHITECTURAL DRAWINGS PRIOR TO ORDERING FIXTURE(S). LENGTH SHOWN IS APPROXIMATE.

### GENERAL NOTES:

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- E ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING). JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8 IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.
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- H PROVIDE ALL ADDITIONAL BRANCH CIRCUITRY REQUIRED FOR NEW OR REPLACED LIGHTING CONTROLS, SENSORS AND POWER PACKS SHOWN.

### LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HA1-1/b



ALL BRANCH CIRCUITRY AND WIRING DEVICES IN PATIENT CARE AREAS SHALL BE HOSPITAL GRADE. CONDUITS UNDER FLOOR IN PATIENT CARE AREAS SHALL BE GALVANIZED RIGID STEEL FOR THE ENTIRE RUN.

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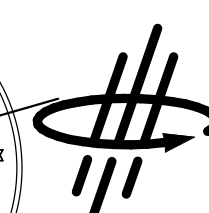
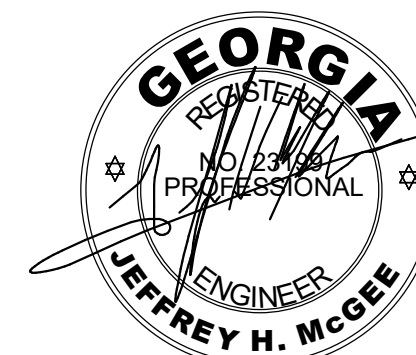
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Sheet Title:  
**FIRST FLOOR**  
**PLAN - LIGHTING**

Project #: 2229 Date: 04/18/2025

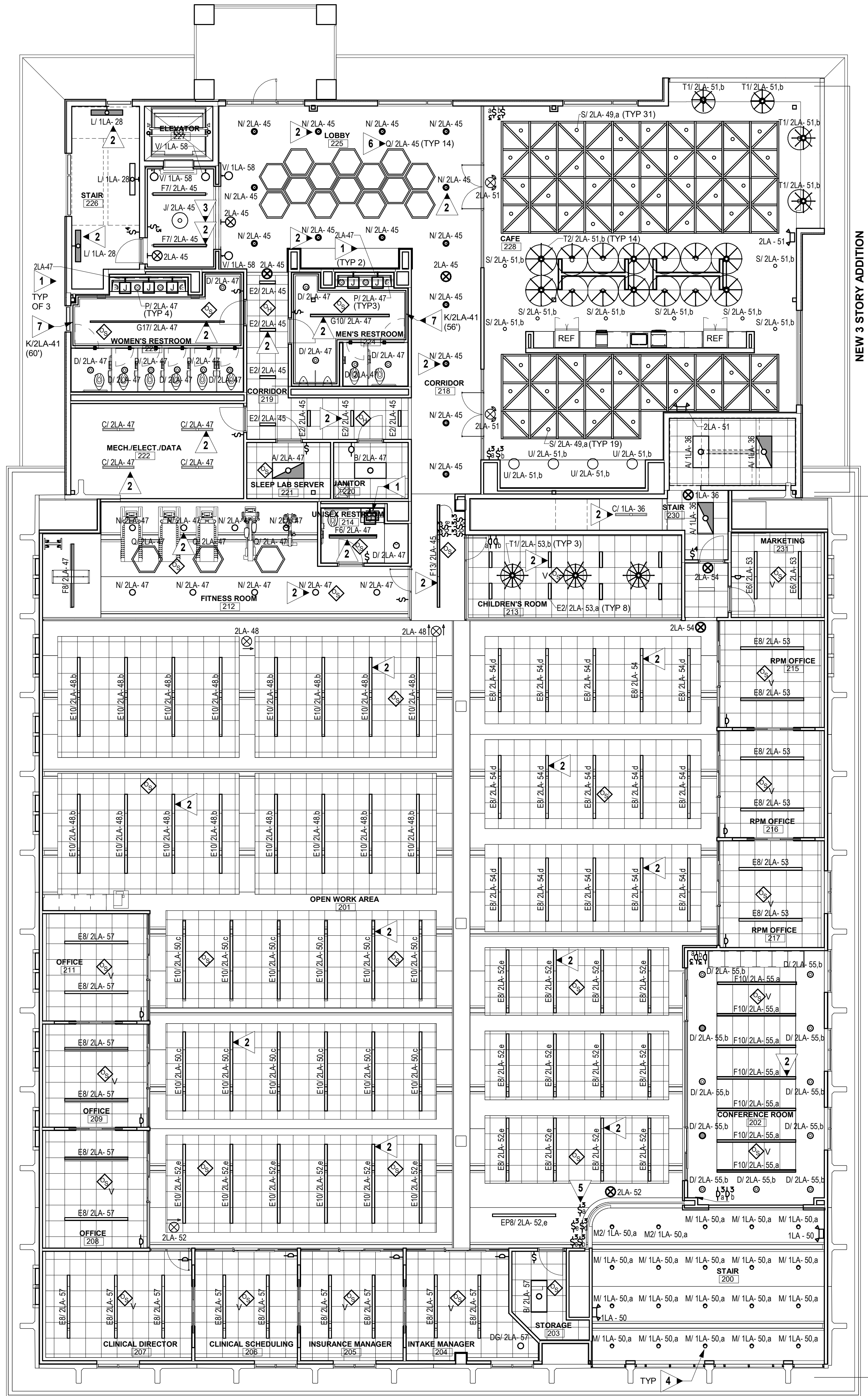
**E2.1**



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ELECTRICAL DESIGN  
CONSULTANTS

ELECTRICAL ENGINEERS  
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NEW 3 STORY ADDITION

EXISTING 2 STORY BUILDING BEING RENOVATED

KEYED NOTES:

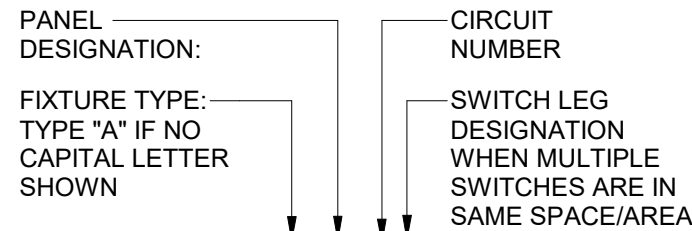
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- 5 SEE E2.1 FOR OTHER 3-WAY SWITCH CONTROLLING VESTIBULE LIGHTING.
- 6 COORDINATE WITH LIGHTING FIXTURE MANUFACTURER CIRCUITRY AND MOUNTING REQUIREMENTS PRIOR TO ROUGH-IN.
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- I. SEE DETAIL 2/E2.1.

LIGHT FIXTURE DESIGNATION DESCRIPTION

EXAMPLE: B/HA1-1/b



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

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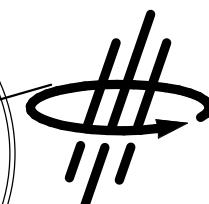
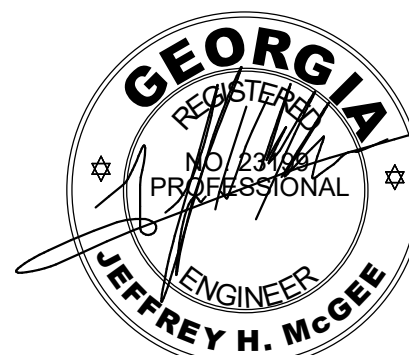
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Sheet Title:  
SECOND FLOOR  
PLAN - LIGHTING

Project #: 2229 Date: 04/18/2025

E2.2



EDC  
ELECTRICAL DESIGN  
CONSULTANTS

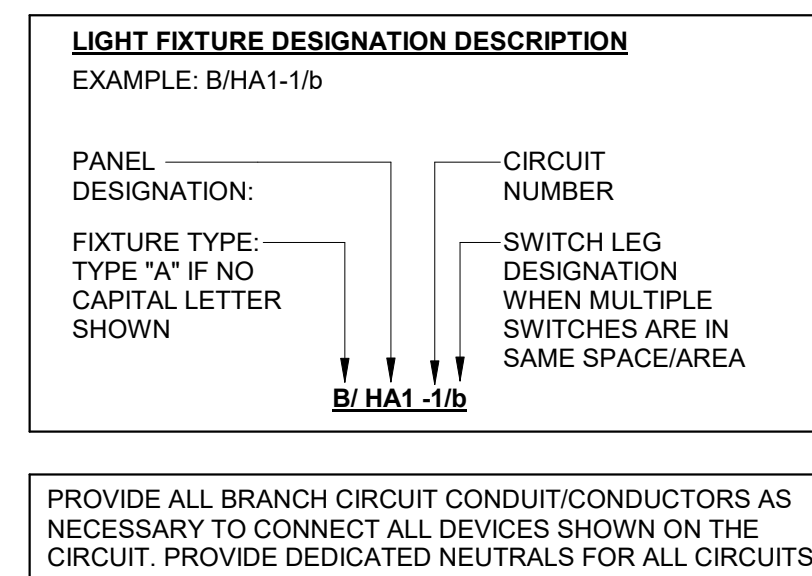
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5. COVE MOUNTED LIGHTING FIXTURE TYPE K. FOR EXACT LENGTHS SEE ARCHITECTURAL DRAWINGS PRIOR TO ORDERING FIXTURE(S). LENGTH SHOWN IS APPROXIMATE.

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- C. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED. SEE DETAIL 2/E201.
- D. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.
- E. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTED (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING. JUNCTION BOX SHALL BE SUPPORTED FOR STRUCTURE UTILIZING A 3/8 IN. THREADED ROD. WHERE CEILING HEIGHT EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12 FT.-0 IN.
- F. PROVIDE UNSWITCHED HOT CONDUCTOR TO ALL EMERGENCY AND EXIT LIGHTS.
- G. ALL OCCUPANCY SENSOR COVERAGE SHALL BE IECC 2015 COMPLIANT.
- H. PROVIDE ALL ADDITIONAL BRANCH CIRCUITY REQUIRED FOR NEW OR REPLACED LIGHTING CONTROLS, SENSORS AND POWER PACKS SHOWN

I. SEE DETAIL 2/E2.1.



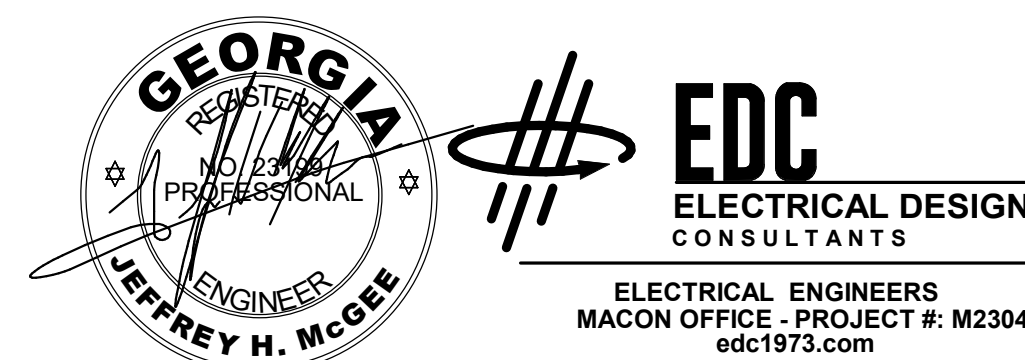
| Revisions: |  |
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Sheet Title:

THIRD FLOOR  
PLAN - LIGHTING

**Project #:** 2229      **Date:** 04/18/2025

## E2.3





1ST FLOOR MECHANICAL CONNECTION SCHEDULE

| ID       | EQUIPMENT INFORMATION |    |        | CIRCUIT INFORMATION |          | CONDUIT & WIRE | DISC   | TYPE | NOTES |
|----------|-----------------------|----|--------|---------------------|----------|----------------|--------|------|-------|
|          | VOLT                  | PH | MOCP   | PANEL               | NO.      |                |        |      |       |
| EW-1     | 208 V                 | 1  | 25.0 A | 1M                  | 43.45    | 4#10,3/4" C.   | 30A/2P |      | 1     |
| EW-2     | 208 V                 | 1  | 25.0 A | 1M                  | 47.49    | 4#10,3/4" C.   | 30A/2P |      | 1     |
| EW-3     | 208 V                 | 1  | 25.0 A | 1M                  | 51.53    | 4#10,3/4" C.   | 30A/2P |      | 1     |
| EW-4     | 208 V                 | 1  | 25.0 A | 1M                  | 55.57    | 4#10,3/4" C.   | 30A/2P |      | 1     |
| EW-5     | 208 V                 | 1  | 25.0 A | 1M                  | 38.40    | 4#10,3/4" C.   | 30A/2P |      | 1     |
| VAV-1-1  | 208 V                 | 3  | 20.0 A | 1M                  | 1.35     | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-2  | 208 V                 | 3  | 20.0 A | 1M                  | 1.35     | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-3  | 208 V                 | 3  | 20.0 A | 1M                  | 1.35     | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-4  | 208 V                 | 3  | 20.0 A | 1M                  | 7.9.11   | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-5  | 208 V                 | 3  | 20.0 A | 1M                  | 7.9.11   | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-6  | 208 V                 | 3  | 20.0 A | 1M                  | 7.9.11   | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-7  | 208 V                 | 3  | 20.0 A | 1M                  | 7.9.11   | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-8  | 208 V                 | 3  | 20.0 A | 1M                  | 13.15.17 | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-9  | 208 V                 | 3  | 20.0 A | 1M                  | 19.21.23 | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-10 | 208 V                 | 3  | 20.0 A | 1M                  | 25.27.29 | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-11 | 208 V                 | 3  | 20.0 A | 1M                  | 31.33.35 | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-12 | 208 V                 | 3  | 20.0 A | 1M                  | 31.33.35 | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-13 | 208 V                 | 3  | 20.0 A | 1M                  | 2.4.6    | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-14 | 208 V                 | 3  | 20.0 A | 1M                  | 19.21.23 | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-15 | 208 V                 | 3  | 20.0 A | 1M                  | 8.10.12  | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-16 | 208 V                 | 3  | 20.0 A | 1M                  | 2.4.6    | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-17 | 208 V                 | 3  | 20.0 A | 1M                  | 2.4.6    | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-18 | 208 V                 | 3  | 20.0 A | 1M                  | 14.16.18 | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-19 | 208 V                 | 3  | 20.0 A | 1M                  | 20.22.24 | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-20 | 208 V                 | 3  | 20.0 A | 1M                  | 26.28.30 | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-21 | 208 V                 | 3  | 20.0 A | 1M                  | 25.27.29 | 5#12,3/4" C.   | 30A/3P |      | 1     |
| VAV-1-22 | 208 V                 | 3  | 20.0 A | 1M                  | 26.28.30 | 5#12,3/4" C.   | 30A/3P |      | 1     |

NOTES:  
1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.

1ST FLOOR PLUMBING CONNECTION SCHEDULE

| ID   | EQUIPMENT INFORMATION |    |        | CIRCUIT INFORMATION |       | CONDUIT & WIRE | DISC   | TYPE | NOTES |
|------|-----------------------|----|--------|---------------------|-------|----------------|--------|------|-------|
|      | VOLT                  | PH | MOCP   | PANEL               | NO.   |                |        |      |       |
| SP-1 | 208 V                 | 1  | 20.0 A | 1M                  | 42.44 | 4#12,3/4" C.   | 30A/2P |      |       |

FIRE ALARM SUBCONTRACTOR SUBMITTAL REQUIREMENTS TO AUTHORITY HAVING JURISDICTION:

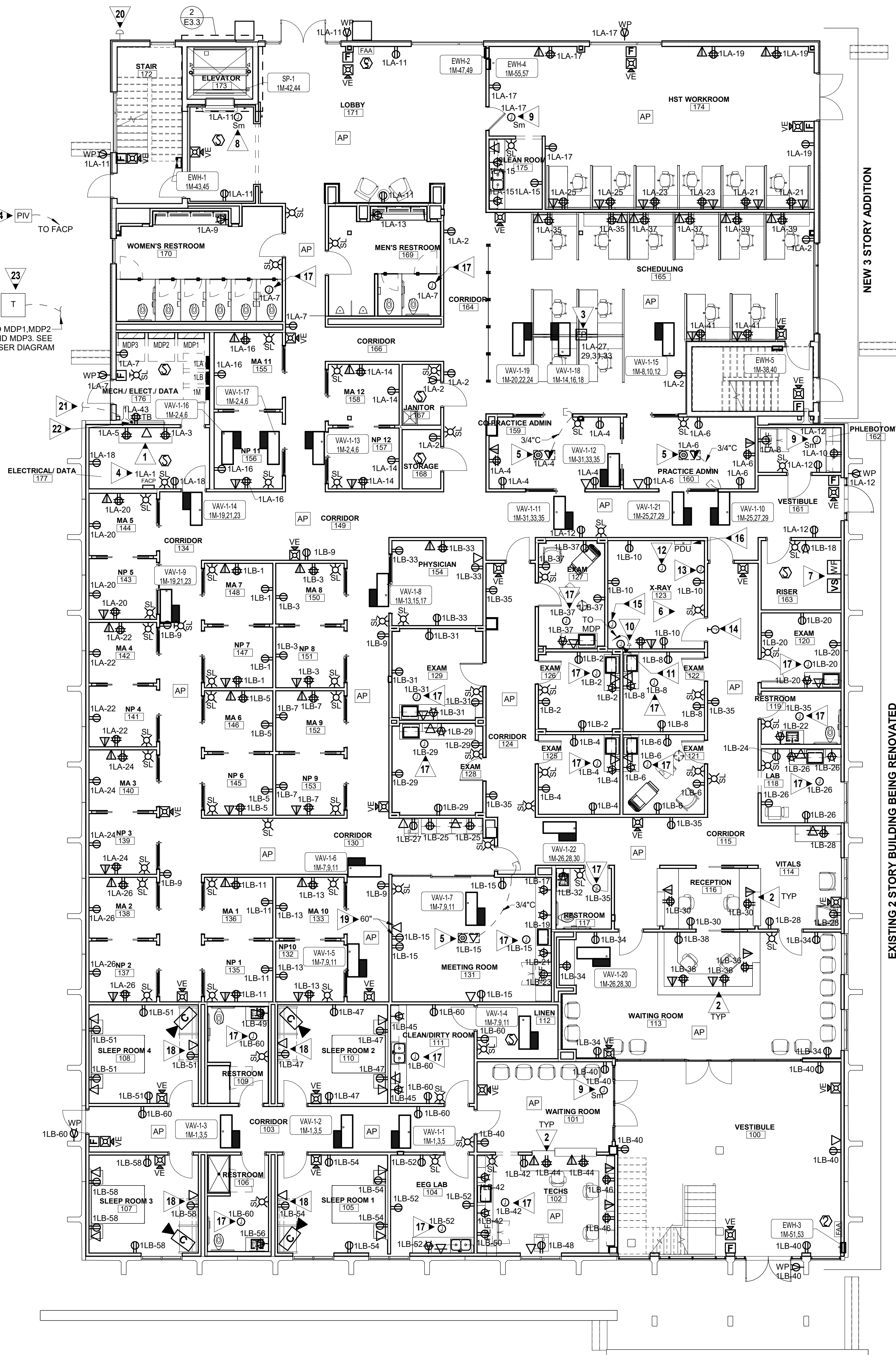
IN ACCORDANCE WITH CHAP 7, NFPA 72 THE FOLLOWING LIST REPRESENTS THE MINIMUM DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR ALL FIRE ALARM SYSTEMS:

1. THE PRINTED NAME, SIGNATURE AND COPY OF CURRENT GEORGIA LICENSE OF THE LOW VOLTAGE CONTRACTOR WHO IS SUBMITTING THE FIRE ALARM PLANS FOR REVIEW AND WHO WILL BE RESPONSIBLE FOR INSTALLATION.
2. WRITTEN NARRATIVE PROVIDING INTENT AND SYSTEM DESCRIPTION.
3. A FIRE ALARM RISER DIAGRAM.
4. A FLOOR PLAN LAYOUT WITH ROOM NAMES, DOOR LOCATIONS, FIXTURES (DRAWN TO SCALE) SHOWING LOCATION OF ALL DEVICES AND CONTROL EQUIPMENT. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS IS THE MINIMUM REQUIRED. PROVIDE ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE AND LOCAL CODES.
5. THE FIRE ALARM SYSTEM WIRING LAYOUT DESIGN WHICH INCLUDES THE GAUGE(S) OF WIRING INSTALLED.
6. THE SEQUENCE OF OPERATION IN EITHER INPUT/OUTPUT MATRIX OR NARRATIVE FORM.
7. EQUIPMENT TECHNICAL DATA SHEETS FOR ALL COMPONENTS SPECIFIED IN THE FIRE ALARM SYSTEM DESIGN.
8. MANUFACTURERS PUBLISHED INSTRUCTIONS, INCLUDING OPERATION AND MAINTENANCE INSTRUCTIONS.
9. BATTERY CALCULATIONS.
10. A SET OF NAC VOLTAGE DROP/LOAD CALCULATIONS.
11. SPEAKER WATTAGES AND DECIBEL RATINGS FOR BOTH HORN ALARM AND VOICE EVACUATION SYSTEM COMPONENTS.
12. THE CANDELA RATING SHOWN FOR DRAWINGS FOR EACH STROBE/VISUAL DEVICE AND EACH ILLUMINATED EMERGENCY EXIT SIGN FIRE ALARM SYSTEM MUST COMPLY WITH THE GEORGIA ACCESSIBILITY CODE (120-3-20), LIFE SAFETY CODE (NFPA 101) AND THE NATIONAL FIRE ALARM CODE (NFPA 72).
13. SEE FIRE ALARM SUBCONTRACTOR SUBMITTAL REQUIREMENTS TO AUTHORITY HAVING JURISDICTION FOR ADDITIONAL REQUIREMENTS. FIRE ALARM SUBCONTRACTOR RESPONSIBLE FOR ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE AND LOCAL CODES.

GENERAL NOTES - LOCATION OF UTILITY COMPANY PAD MOUNTED TRANSFORMER:

1. TRANSFORMER PAD LOCATIONS SHALL BE A MINIMUM OF 10 FT.-0 IN. FROM ANY BUILDING OVERHANGS, CANOPIES, EXTERIOR WALLS, BALCONY, EXTERIOR STAIRS AND OR WALKWAYS CONNECTED TO THE BUILDING.
2. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 14 FT.-0 IN. FROM ANY DOOR WAY.
3. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 10 FT.-0 IN. FROM ANY WINDOWS OR OTHER OPENINGS.
4. IF THE BUILDING HAS ON OVERHANG THE 10 FT.-0 IN. CLEARANCE SHALL BE MEASURED FROM A POINT BELOW THE EDGE OF THE OVERHANG ONLY IF THE BUILDING IS 3 STORIES OR LESS. IF THE BUILDING IS 4 STORIES OR MORE 10 FT.-0 IN. SHALL BE MEASURED FROM THE OUTSIDE BUILDING WALL.
5. FIRE ESCAPES, OUTSIDE STAIRS, AND COVERED WALKWAYS ATTACHED TO OR BETWEEN BUILDINGS, SHALL BE CONSIDERED PART OF THE BUILDING.

NOTE:  
THIS INFORMATION HAS BEEN OBTAINED FROM THE NFPA SECTION 450-27 AND THE OFFICE OF INSURANCE AND SAFETY FIRE COMMISSIONER CHAPTER 120-3-3.



1 FIRST FLOOR PLAN - POWER AND SYSTEMS  
E3.1 SCALE: 1/8" = 1'-0"

KEYED NOTES:

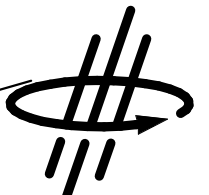
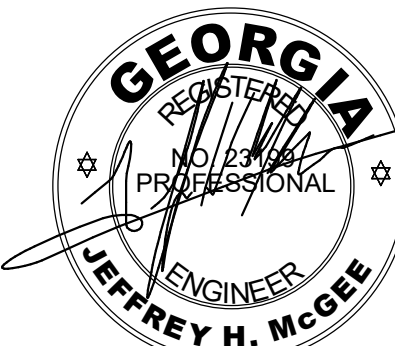
1. OUTLETS FOR OWNER PROVIDED IT EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
2. COORDINATE OUTLET LOCATION AND MOUNTING WITH MILL WORK CONTRACTOR PRIOR TO ROUGH-IN.
3. FLOOR BOX FOR FURNITURE SYSTEM POWER AND DATA. DESIGN INTENT IS FOR 4 CIRCUITS (8 WIRE SYSTEM), 3/4 IN. 2" CONDUIT FOR DATA. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO ROUGH-IN. LEGRAND EVOLUTION SERIES OR APPROVED EQUAL.
4. MARK FACP CIRCUIT BREAKER PER NEC 2023 IN PANEL. PROVIDE HASP LOCK AND PAINT BREAKER RED.
5. SAW CUT EXISTING FLOOR FOR FLOOR BOX AND CONDUIT ROUTINGS. X-RAY FLOOR PRIOR TO SAW CUTTING. COORDINATE EXACT LOCATION OF FLOOR BOX WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PATCH FLOOR TO MATCH SURROUNDING AREA AFTER INSTALLATION.
6. COORDINATE INSTALLATION AND ROOM LAYOUT WITH OWNER PROVIDED X-RAY EQUIPMENT WITH MANUFACTURER INSTALLATION REQUIREMENTS, SHOP DRAWINGS AND OWNER.
7. FLOW AND TAMPER SWITCHES. COORDINATE WITH FIRE SPINKLER CONTRACTOR EXACT QUANTITIES AND LOCATIONS.
8. JUNCTION BOX, DISCONNECT AND ASSOCIATED WIRING FOR SMOKE GUARD SYSTEM. PROVIDE ALL REQUIRED ELECTRICAL INFRASTRUCTURE FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE EXACT REQUIREMENTS WITH SMOKE GUARD MANUFACTURER PRIOR TO ANY WORK.
9. JUNCTION BOX AND CIRCUITRY FOR FIRE/SMOKE DAMPER MOUNTED ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL AND FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN.
10. ROUTE 5#12 AWG IN 1/2" CONDUIT TO PANEL MDP1. SHUNT TRIP BREAKER SERVING X-RAY MACHINE POWER SUPPLY.
11. MINIMUM 4"x4" BOX WITH TWO (2) 1" CONDUITS TO ABOVE CEILING FOR X-RAY.
12. 6"x6" FLUSH FLOOR BOX WITH 2-1/2" CONDUIT TO X-RAY EQUIPMENT RISER AT PDU / POWER SUPPLY. COORDINATE WITH SHOP DRAWINGS.
13. 6"x6" FLUSH WALL BOX, MOUNTED AT 36" AFF. WITH 2" CONDUIT TO X-RAY EQUIPMENT RISER AT PDU / POWER SUPPLY. COORDINATE WITH SHOP DRAWINGS.
14. PROVIDE AND INSTALL "X-RAY IN USE" LIGHT MOUNTED ABOVE DOOR, ROUTE 4#12, 1/2" CONDUIT TO X-RAY GENERATOR RELAY COIL AND CONNECT PER X-RAY SHOP DRAWINGS. COORDINATE WITH SHOP DRAWINGS.
15. 8"x8" FLUSH WALL BOX AND COVER WITH 2" CONDUIT TO X-RAY EQUIPMENT RISER AT PDU / POWER SUPPLY. COORDINATE WITH SHOP DRAWINGS.
16. X-RAY POWER DISTRIBUTION UNIT (PDU) CONNECTION. SEE RISER DIAGRAM AND PANEL SCHEDULES FOR CIRCUITRY.
17. JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING/ACCESS PANEL AND CIRCUITRY FOR POWER SUPPLY TO PLUMBING FIXTURES. COORDINATE WITH PLUMBING CONTRACTOR EXACT LOCATION AND FUTURE QUANTITIES PRIOR TO ROUGH-IN. WHERE POSSIBLE LOCATE ACCESS PANEL AND JUNCTION BOX INSIDE/ABOVE TOILET STALL.
18. OUTLETS FOR WALL MOUNTED TV. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
19. OUTLETS FOR WALL MOUNTED TV. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. MOUNT DUPLEX OUTLET AT STANDARD HEIGHT (18" AFF) THAT ARE SHOWN NEXT TO DUPLEX/DATA OUTLETS THAT ARE MOUNTED UP HIGH. MOUNT DUPLEX OUTLETS VERTICALLY IN-LINE.
20. COORDINATE FINAL LOCATION OF KNOX BOX FOR EMERGENCY POWER SHUTOFF WITH ARCHITECT AND AUTHORITY HAVING JURISDICTION. SURFACE MOUNT KNOX BOX AND PROVIDE INDICATION SIGN. SEE RISER DIAGRAM FOR MORE INFORMATION.
21. PROVIDE 2-3 IN.C. FOR TELEPHONE AND DATA SERVICE. PROVIDE HAND-HOLES AS REQUIRED BY 2023 NEC IN GRASS AREA. COORDINATE STUB-OUT LOCATION AT PROPERTY LINE AND EXISTING CONDITIONS WITH SERVICE PROVIDERS.
22. STUB UP UNDER TEL BOARD, AVOID EXISTING BUILDING FOOTINGS. SEE 5/E4.1.
23. COORDINATE EXACT LOCATION OF POWER COMPANY TRANSFORMER WITH POWER COMPANY, ARCHITECT AND CIVIL ENGINEER.
24. ROUTE TO FIRE ALARM CONTROL PANEL. PROVIDE LIGHTING ARRESTORS ON ALL EXTERIOR BRANCH CIRCUITRY FOR FIRE ALARM. PROVIDE ALL MONITORING MODULES FOR POST INDICATOR VALVE, DOUBLE CHECK VALVES AND ANY OTHER FIRE ALARM VALVES. COORDINATE EXACT LOCATION WITH CIVIL ENGINEER.

GENERAL NOTES:

- A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.
- B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
- C. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.
- D. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
- E. FIRE SEAL ALL FIREWALL PENETRATIONS.
- F. SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS ON SITE AND WITH OFFICIAL SURVEYS AND OTHER TRADES.
- G. CALL UNDERGROUND UTILITY CENTER AND VERIFY ALL UNDERGROUND UTILITIES.
- H. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.
- I. COORDINATE WITH SERVING UTILITY COMPANIES FOR EXACT SERVICE LOCATIONS. CONTRACTOR SHALL PAY ALL ADDITIONAL COSTS TO PROVIDE SERVICES SHOWN.
- J. PROVIDE HAND-HOLES AS REQUIRED BY 2023 NEC FOR UNDERGROUND FEEDERS SHOWN.

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

ALL BRANCH CIRCUITRY AND WIRING DEVICES IN PATIENT CARE AREAS SHALL BE HOSPITAL GRADE. CONDUITS UNDER FLOOR IN PATIENT CARE AREAS SHALL BE GALVANIZED RIGID STEEL FOR THE ENTIRE RUN.



**EDC**  
ELECTRICAL DESIGN  
CONSULTANTS  
ELECTRICAL ENGINEERS  
MACON OFFICE - PROJECT #: M23048  
edc1973.com

**DUNWODY/BEELEND,**  
Architects, Inc.

**OFFICE RENOVATION FOR VILTIES**  
**HOLDINGS LLC**

Sheet Title:  
**FIRST FLOOR**  
**PLAN - POWER**  
**AND SYSTEMS**

Project #: 2229 Date: 04/18/2025

**E3.1**

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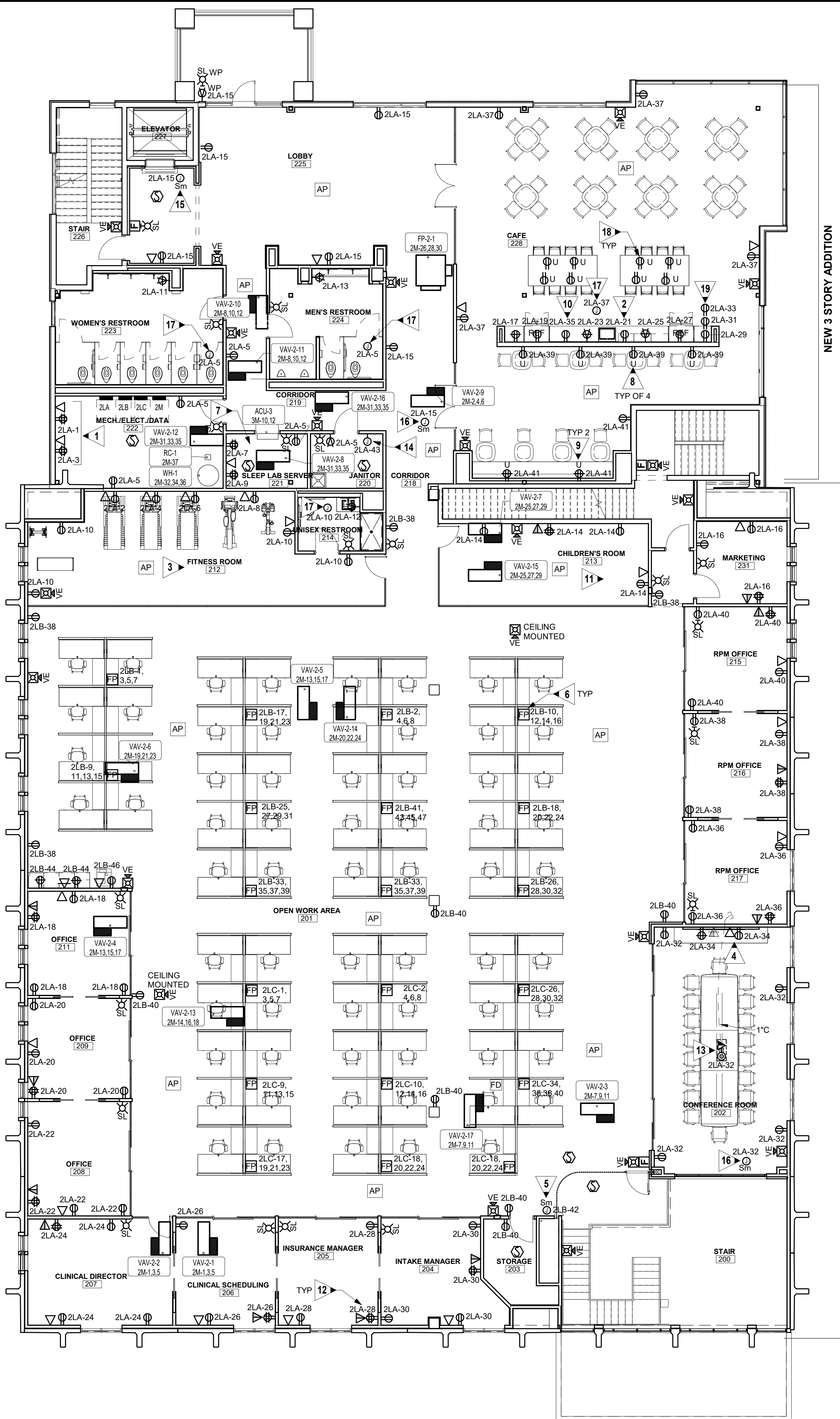
2ND FLOOR MECHANICAL CONNECTION SCHEDULE

| ID       | EQUIPMENT INFORMATION |    |        | CIRCUIT INFORMATION |          | CONDUIT & WIRE SIZE | DISC TYPE | NOTES |
|----------|-----------------------|----|--------|---------------------|----------|---------------------|-----------|-------|
|          | VOLT                  | PH | MOCP   | PANEL               | NO.      |                     |           |       |
| FP-2-1   | 208 V                 | 3  | 30.0 A | 2M                  | 26,28,30 | 5#10,3/4" C.        | 30A/3P    | 1     |
| VAV-2-1  | 208 V                 | 3  | 20.0 A | 2M                  | 1,3,5    | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-2  | 208 V                 | 3  | 20.0 A | 2M                  | 1,3,5    | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-3  | 208 V                 | 3  | 20.0 A | 2M                  | 7,9,11   | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-4  | 208 V                 | 3  | 20.0 A | 2M                  | 13,15,17 | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-5  | 208 V                 | 3  | 20.0 A | 2M                  | 13,15,17 | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-6  | 208 V                 | 3  | 20.0 A | 2M                  | 19,21,23 | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-7  | 208 V                 | 3  | 20.0 A | 2M                  | 25,27,29 | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-8  | 208 V                 | 3  | 20.0 A | 2M                  | 31,33,35 | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-9  | 208 V                 | 3  | 25.0 A | 2M                  | 2,4,6    | 5#10,3/4" C.        | 30A/3P    | 1     |
| VAV-2-10 | 208 V                 | 3  | 20.0 A | 2M                  | 8,10,12  | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-11 | 208 V                 | 3  | 20.0 A | 2M                  | 8,10,12  | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-12 | 208 V                 | 3  | 20.0 A | 2M                  | 31,33,35 | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-13 | 208 V                 | 3  | 20.0 A | 2M                  | 14,16,18 | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-14 | 208 V                 | 3  | 20.0 A | 2M                  | 20,22,24 | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-15 | 208 V                 | 3  | 20.0 A | 2M                  | 25,27,29 | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-16 | 208 V                 | 3  | 20.0 A | 2M                  | 31,33,35 | 5#12,3/4" C.        | 30A/3P    | 1     |
| VAV-2-17 | 208 V                 | 3  | 20.0 A | 2M                  | 7,9,11   | 5#12,3/4" C.        | 30A/3P    | 1     |

NOTES:  
1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.

2ND FLOOR PLUMBING CONNECTION SCHEDULE

| ID   | EQUIPMENT INFORMATION |    |         | CIRCUIT INFORMATION |          | CONDUIT & WIRE SIZE | DISC TYPE | NOTES |
|------|-----------------------|----|---------|---------------------|----------|---------------------|-----------|-------|
|      | VOLT                  | PH | MOCP    | PANEL               | NO.      |                     |           |       |
| RC-1 | 120 V                 | 1  | 20.0 A  | 2M                  | 37       | 3#12,1/2" C.        | MRS       |       |
| WH-1 | 208 V                 | 3  | 100.0 A | 2M                  | 32,34,36 | 4#3,#8G,1 1/4" C.   | 100A/3P   |       |



KEYED NOTES:

- 1 OUTLETS FOR OWNER PROVIDED IT EQUIPMENT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- 2 OUTLET FOR UNDERCOUNTER DISHWASHER. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH MILL WORK CONTRACTOR PRIOR TO ROUGH-IN.
- 3 COORDINATE EXACT LOCATION OF ALL OUTLETS WITH EXERCISE EQUIPMENT LAYOUT IN THIS ROOM PRIOR TO ROUGH-IN WITH OWNER AND ARCHITECT.
- 4 OUTLETS FOR MONITOR MOUNTED AT 58" AFF. COORDINATE EXACT REQUIREMENTS A/V CONTRACTOR PRIOR TO ROUGH-IN.
- 5 JUNCTION BOX, DISCONNECT AND ASSOCIATED WIRING FOR FIRE DOOR SYSTEM. PROVIDE ALL REQUIRED ELECTRICAL INFRASTRUCTURE FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE EXACT REQUIREMENTS WITH FIRE DOOR MANUFACTURER PRIOR TO ANY WORK.
- 6 4" POKE THRU DEVICE FOR FURNITURE FEED FOR POWER AND DATA SYSTEMS. LEGRAND 4FFATC SERIES OR APPROVED EQUAL. DESIGN INTENT IS FOR 4 CIRCUITS (8 WIRE SYSTEM). COORDINATE WITH FURNITURE SYSTEM CONTRACTOR PRIOR TO ORDERING. PROVIDE ALL REQUIRED HARDWARE FOR A COMPLETE INSTALLATION. COORDINATE EXACT LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN. X-RAY FLOOR PRIOR TO ANY WORK. PATCH FLOOR TO MATCH EXISTING SURROUNDING AREA.
- 7 COORDINATE EXACT ELECTRICAL REQUIREMENTS AND LAYOUT OF THIS ROOM WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- 8 OUTLET TO BE MOUNTED HIGH ENOUGH TO BE ABOVE FURNITURE, APPROXIMATELY 4'-0" AFF. COORDINATE EXACT HEIGHT WITH ARCHITECT AND FURNITURE CONTRACTOR PRIOR TO ROUGH-IN.
- 9 OUTLET TO BE MOUNTED HIGH ENOUGH TO BE ABOVE FURNITURE, APPROXIMATELY 4'-6" AFF. COORDINATE EXACT HEIGHT WITH ARCHITECT AND FURNITURE CONTRACTOR PRIOR TO ROUGH-IN.
- 10 OUTLET FOR UNDERCOUNTER ICE MAKER. COORDINATE EXACT LOCATION AND MOUNTING REQUIREMENTS WITH MILL WORK CONTRACTOR PRIOR TO ROUGH-IN.
- 11 COORDINATE EXACT LOCATION OF ALL OUTLETS IN THIS ROOM WITH WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
- 12 WHERE OUTLETS ARE BACK TO BACK ON SHORT WALLS OFFSET MOUNTING HEIGHTS APPROXIMATELY 6" AS REQUIRED.
- 13 SAW CUT EXISTING FLOOR FOR FLOOR BOX AND CONDUIT ROUTINGS. X-RAY FLOOR PRIOR TO SAW CUTTING. COORDINATE EXACT LOCATION OF FLOOR BOX WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PATCH FLOOR TO MATCH SURROUNDING AREA AFTER INSTALLATION.
- 14 JUNCTION BOX AND CIRCUITRY FOR EXHAUST FAN DIGITAL 365/24/7 CLOCK. TIME CLOCK PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- 15 JUNCTION BOX, DISCONNECT AND ASSOCIATED WIRING FOR SMOKE GUARD SYSTEM. PROVIDE ALL REQUIRED ELECTRICAL INFRASTRUCTURE FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE EXACT REQUIREMENTS WITH SMOKE GUARD MANUFACTURER PRIOR TO ANY WORK.
- 16 JUNCTION BOX AND CIRCUITRY FOR FIRE/SMOKE DAMPER MOUNTED ABOVE ACCESSIBLE CEILING. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL AND FIRE ALARM CONTRACTOR PRIOR TO ROUGH-IN.
- 17 JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING/ACCESS PANEL AND CIRCUITRY FOR POWER SUPPLY TO PLUMBING FIXTURES. COORDINATE WITH PLUMBING CONTRACTOR EXACT LOCATION AND FIXTURE QUANTITIES PRIOR TO ROUGH-IN. WHERE POSSIBLE LOCATE ACCESS PANEL AND JUNCTION BOX INSIDE/ABOVE TOILET STALL.
- 18 OUTLET MOUNTED TO WALL SUPPORTING TABLE TOP- SAW CUT FLOOR FOR CONDUIT ROUTING. X-RAY FLOOR PRIOR TO CUTTING AND PATCH TO MATCH SURROUNDING AREA. COORDINATE MOUNTING REQUIREMENTS AND LOCATIONS WITH MILLWORK CONTRACTOR PRIOR TO ROUGH-IN.
- 19 (3) OUTLETS FOR MICROWAVES. MOUNT (1) AT 2'-0" ABOVE COUNTER, (1) AT 3'-6" ABOVE COUNTER AND (1) 5'-0" ABOVE COUNTER. ALL IN-LINE VERTICALLY OF EACH OTHER. COORDINATE EXACT HEIGHTS AND LOCATIONS WITH MILLWORK CONTRACTOR PRIOR TO ROUGH-IN.

GENERAL NOTES:

- A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.
- B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
- C. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.
- D. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
- E. FIRE SEAL ALL FIREWALL PENETRATIONS.

PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

DUNWODY/BEELAND,  
Architects, Inc.

OFFICE RENOVATION FOR VILTIES  
HOLDINGS LLC

| Revisions: |  |
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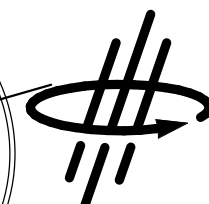
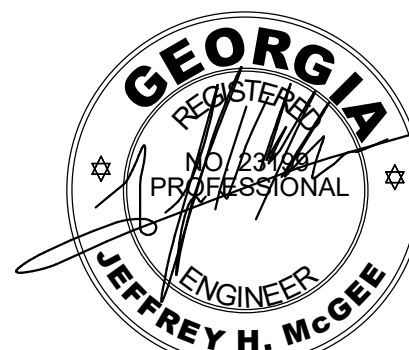
Sheet Title:  
SECOND FLOOR  
PLAN - POWER  
AND SYSTEMS

Project #: 2229 Date: 04/18/2025

E3.2

300 Mulberry Street, Suite 604  
Macon, GA 31201  
Phone: 478.743.0863  
Fax: 478.743.0863  
www.dunwodybeeland.com

4951 FORSYTH ROAD, MACON, GA 31210

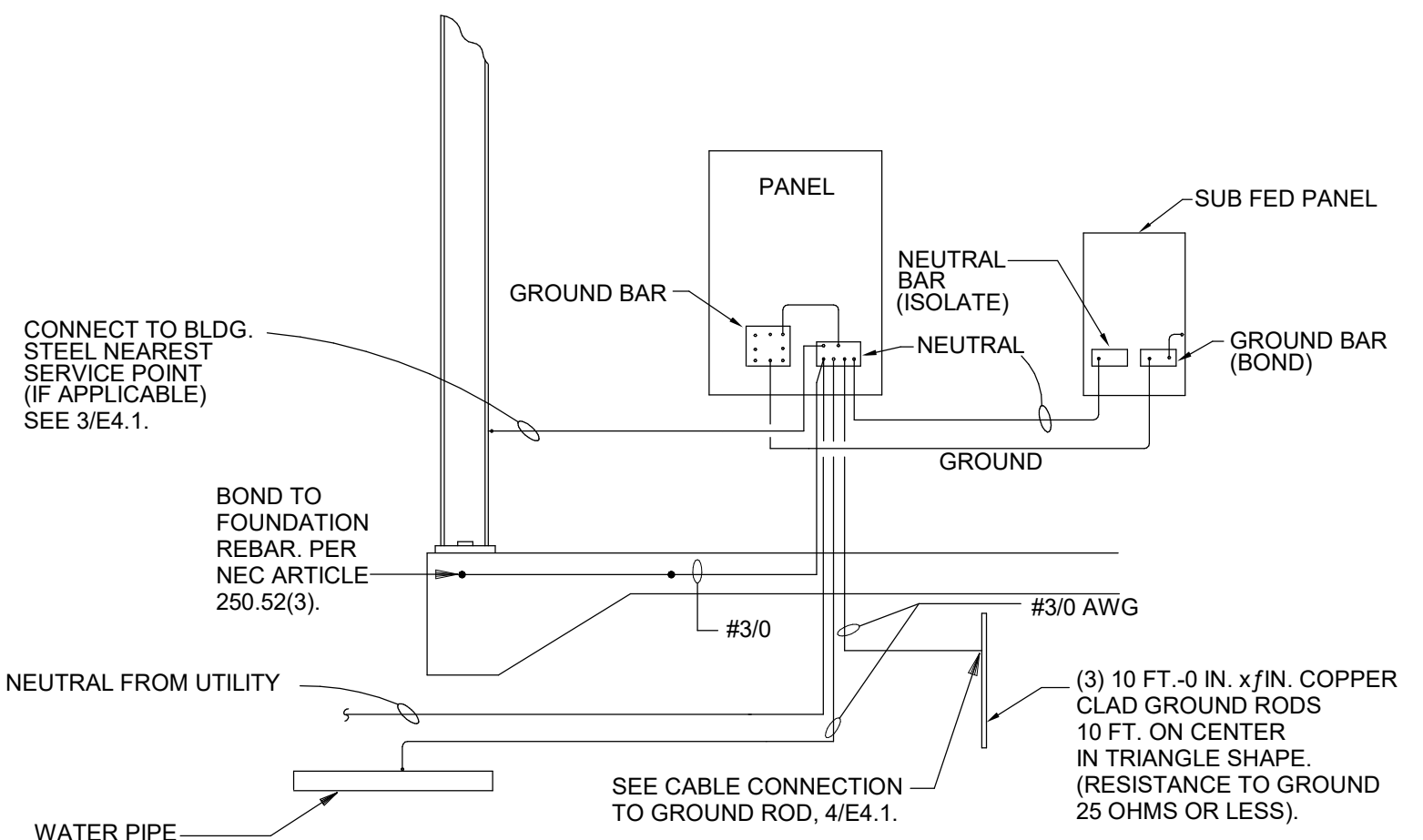


ELECTRICAL ENGINEERS  
MACON OFFICE - PROJECT #: M23048  
edc1973.com

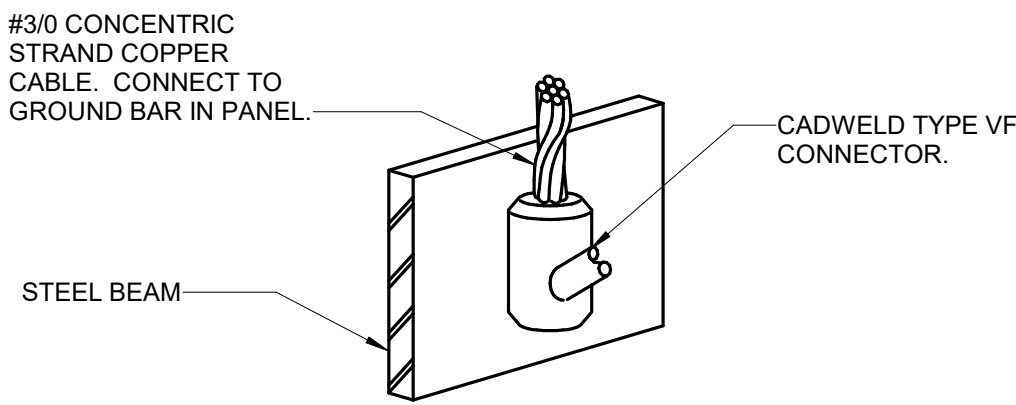




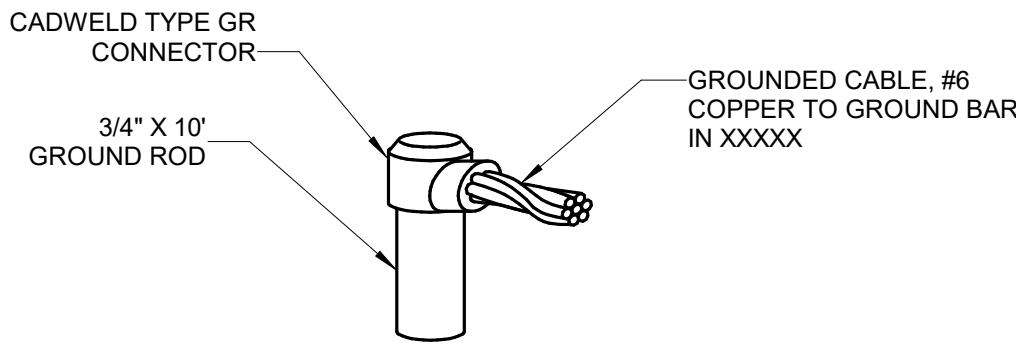
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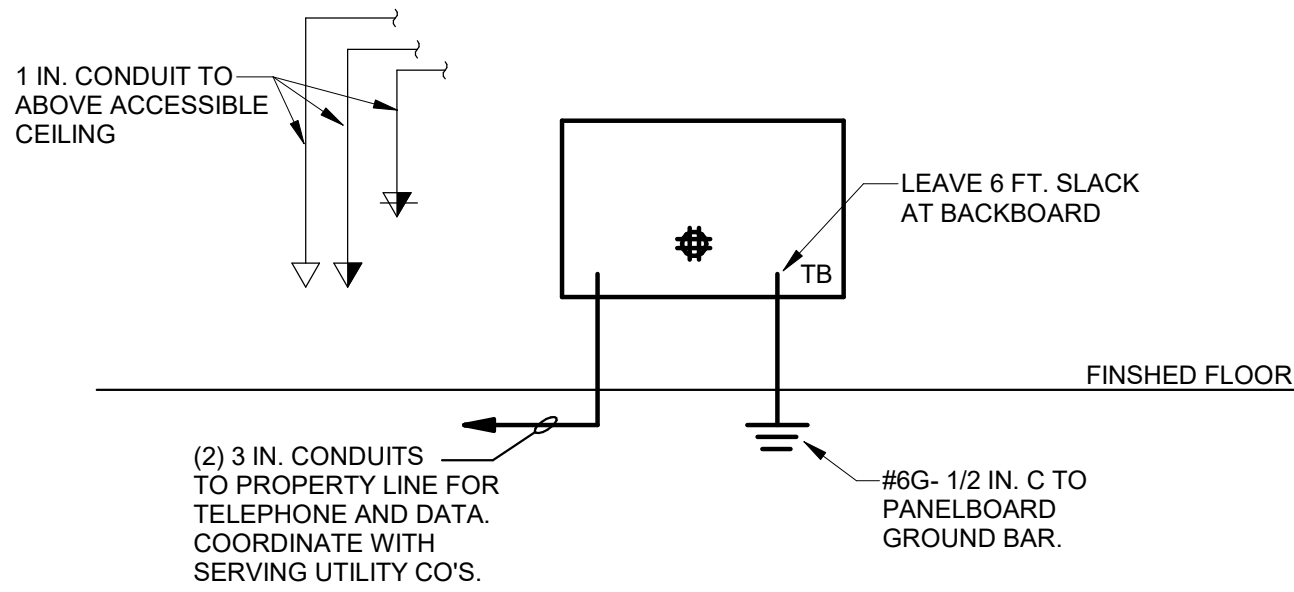
2  
E4.1  
DETAIL - SERVICE GROUNDING  
NO SCALE



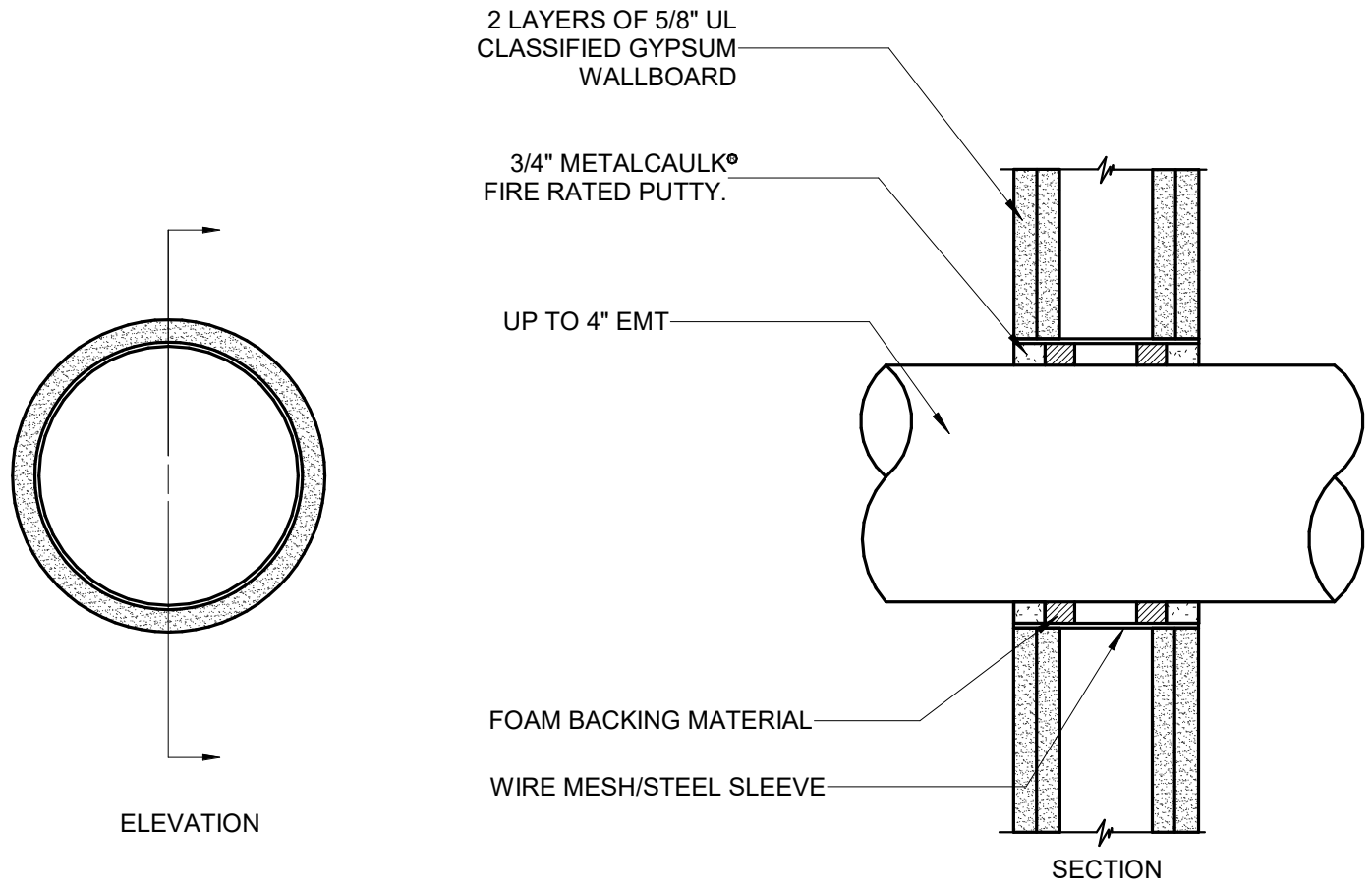
3  
E4.1  
DETAIL - CABLE CONNECTION TO STEEL BEAM  
NO SCALE



4  
E4.1  
DETAIL - CABLE CONNECTION TO GROUND ROD  
NO SCALE

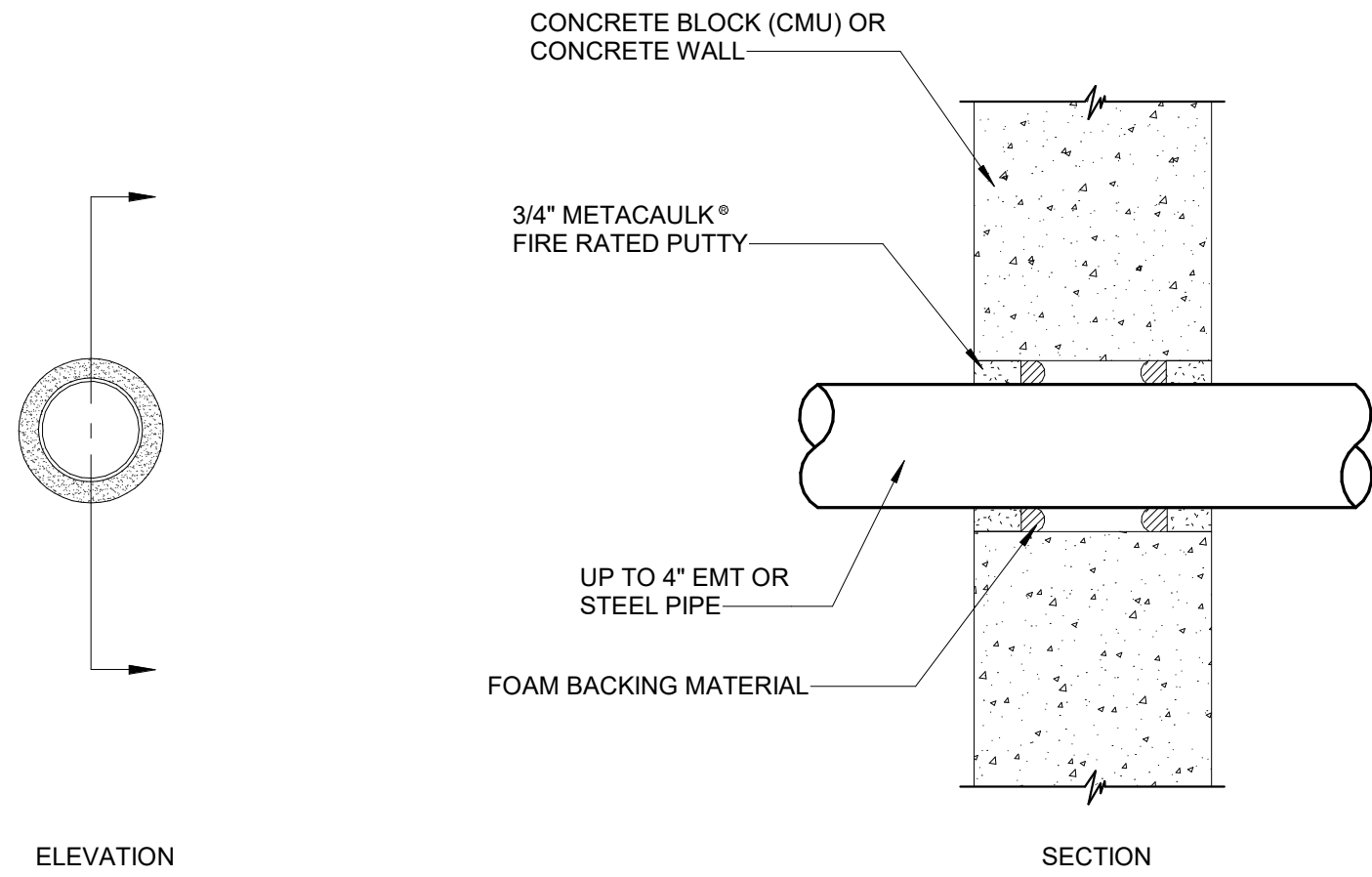


5  
E4.1  
DETAIL - DATA/TELEPHONE RISER  
NO SCALE



NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

6  
E4.1  
DETAIL - GYPSUM WALLBOARD PENETRATION  
NO SCALE



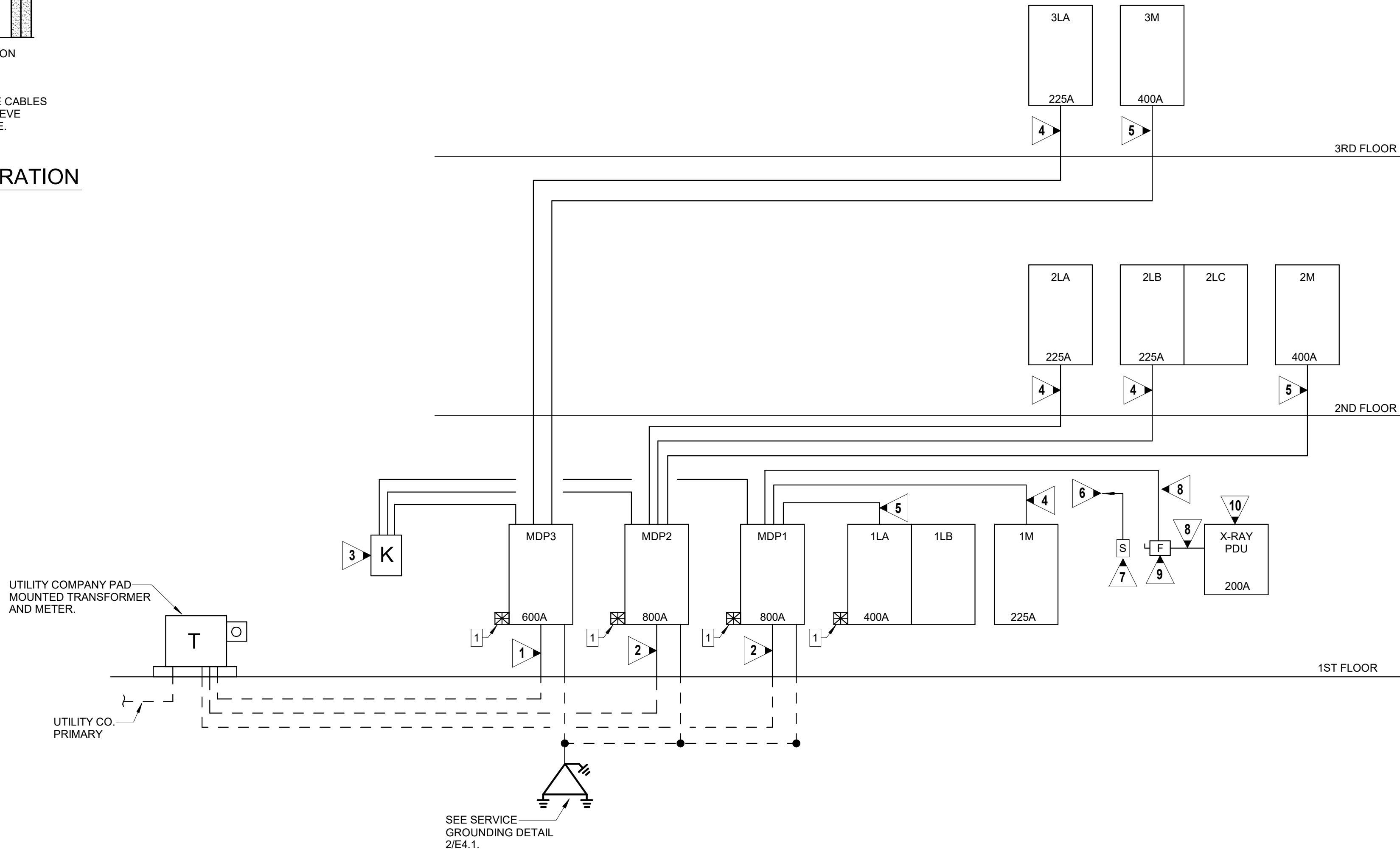
NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

7  
E4.1  
DETAIL - CONCRETE WALL PENETRATION  
NO SCALE

KEYED NOTES:

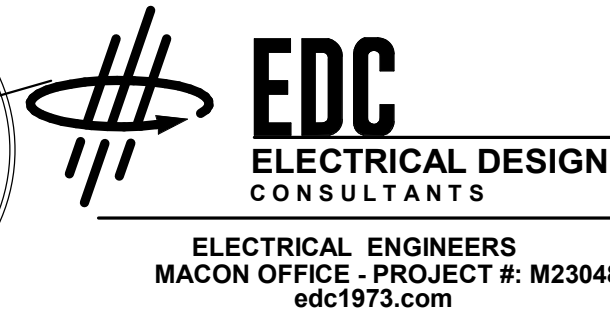
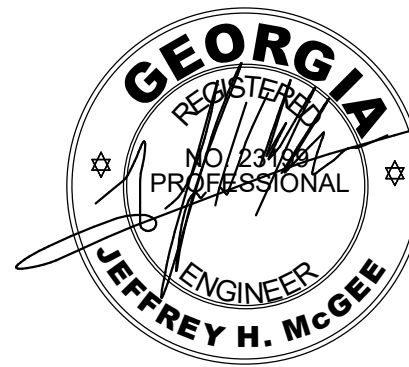
- 1 2 SETS: 4#350MCM, 3"C.
- 2 3 SETS: 4#300MCM, 3"C.
- 3 SURFACE MOUNTED NEMA 3R KNOX REMOTE POWER BOX PRODUCT NUM. "MKT-KBSPEC-0169". CONNECT TO MDP1, MDP2 AND MDP3 SHUNT TRIP MAIN BREAKERS (208/120V/3PH), TO REMOTELY DISCONNECT POWER.
- 4 4#4/0, #4G, 2 1/2"C.
- 5 2 SETS: 4#3/0, #3G, 2 1/2" C.

- 6 #12 AND 1/2" CONDUIT FOR X-RAY EMERGENCY SHUTOFF PER X-RAY INSTALLATION AND SHOP DRAWINGS, ROUTE TO BREAKER IN MDP1 AS REQUIRED
- 7 X-RAY EMERGENCY SHUT OFF PUSHBUTTON TO CONTROL SHUNT TRIP BREAKER. COORDINATE WITH SHOP DRAWINGS AND INSTALLATION REQUIREMENTS FOR X-RAY PROVIDED.
- 8 4#3/0 CU, #6 G. 2 IN. C. TO X-RAY PDU
- 9 PROVIDE 200/3 FUSED DISCONNECT, WITH RK-1 FUSES, FOR X-RAY EQUIPMENT. SIZE FUSES PER MANUFACTURER RECOMMENDATION.
- 10 X-RAY PDU CONNECTION, COORDINATE REQUIREMENTS WITH MANUFACTURER SHOP DRAWINGS AND INSTALLATION REQUIREMENTS.



TVSS  
1 MAIN SERVICE PANEL, PROVIDE EXTERNALLY MOUNTED 200KA PER MODE TVSS, WITH BREAKER FOR DISCONNECT MEANS AND FACTORY WIRED CONNECTIONS. 5#4, 1-1/4" CONDUIT FOR CONNECTION FROM BREAKER TO TVSS MODULE

1  
E4.1  
POWER RISER DIAGRAM  
NO SCALE



| Revisions: |  |
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|            |  |
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Sheet Title:  
RISER DIAGRAM,  
SCHEDULES AND  
DETAILS

Project #: 2229 Date: 04/18/2025



DISTRIBUTION PANEL: MDP1

LOCATION: MECH./ELECT./DATA 176

MAIN DEVICE: MCB

BREAKER AMPS: 800 A

BUS AMPS: 800 AMPS

VOLTAGE: 208Y/120 V, 3 ø 4 W.

A.I.C. RATING: 65K AIC

SPECIAL: SHUNT TRIP MAIN BREAKER

FED FROM: UTILITY

SECTION No. 1

| CKT | DESCRIPTION/NAME/PLATE             | POLES | RATING | Load     | NOTES |
|-----|------------------------------------|-------|--------|----------|-------|
| 1   | 1LA/1LB                            | 3     | 400 A  | 88751 VA |       |
| 2   | 1M                                 | 3     | 225 A  | 62843 VA |       |
| 3   | RTU-1                              | 3     | 175 A  | 42624 VA |       |
| 4   | X-RAY MACHINE W/SHUNT TRIP BREAKER | 3     | 200 A  | 57600 VA |       |
| 5   | SPARE                              | 1     | 225 A  | 0 VA     |       |
| 6   | SPACE                              | 3     | --     | --       |       |
| 7   | SPACE                              | 3     | --     | --       |       |
| 8   | TVSS                               | 3     | 60 A   | 0 VA     |       |

| LOAD CLASSIFICATION | CONNECTED | DEMAND  | ESTIMATED | PANEL TOTALS         |         |
|---------------------|-----------|---------|-----------|----------------------|---------|
| LIGHTING..          | 13970 VA  | 125.00% | 17463 VA  |                      |         |
| LIGHTING            | 1451 VA   | 125.00% | 1813 VA   |                      |         |
| MTR                 | 161827 VA | 108.90% | 176227 VA | CONN. LOAD:          | 247 KVA |
| Other               | 895 VA    | 100.00% | 895 VA    | EST. DEMAND LOAD:    | 239 KVA |
| RECEPTACLES         | 51185 VA  | 59.77%  | 30593 VA  | CONN. CURRENT:       | 685.8 A |
| RECEPTACLES.        | 22440 VA  | 72.28%  | 16220 VA  | EST. DEMAND CURRENT: | 664.4 A |

NOTES:

SERVICE ENTRANCE RATED.

| PANELBOARD: 1LA   |      |           |   |         |        |           |                                   |                              |     |     |      |           |               |             |
|---|------|-----------|---|---------|--------|-----------|-----------------------------------|------------------------------|-----|-----|------|-----------|---------------|-------------|
| LOCATION: MECH./ELECT./DATA 176                           |      |           |   |         |        |           | VOLTAGE: 208Y/120 V, 3 ø 4 W.     |                              |     |     |      |           |               |             |
| MOUNTING: SURFACE   |      |           |   |         |        |           | A.I.C. RATING: 53,821 AIC MINIMUM |                              |     |     |      |           |               |             |
| MAIN DEVICE: 400.0 A MLO                                  |      |           |   |         |        |           | SPECIAL:                          |                              |     |     |      |           |               |             |
| BUS AMPS: 400 AMPS  |      |           |   |         |        |           | FED FROM: MDP1                    |                              |     |     |      |           |               |             |
| LOAD NAME   | NOTE | BKR       | P | CKT     | A      | B         | C                                 | CKT                          | P   | BKR | NOTE | LOAD NAME |               |             |
| FACP  |      | 20 A      | 1 | 1       | 0.5    | 1.1       |                                   |                              | 2   | 1   | 20 A | RCPTS     |               |             |
| IT EQUIP  |      | 20 A      | 1 | 3       |        | 1.5       | 1.2                               |                              | 4   | 1   | 20 A | RCPTS     |               |             |
| IT EQUIP  |      | 20 A      | 1 | 5       |        |           |                                   | 1.5                          | 1.2 | 6   | 1    | 20 A      | RCPTS         |             |
| RCPTS   |      | 20 A      | 1 | 7       | 0.6    | 1.0       |                                   |                              |     | 8   | 1    | 20 A      | REFRIG.       |             |
| RR RCPT   |      | 20 A      | 1 | 9       |        |           | 1.0                               | 1.0                          |     | 10  | 1    | 20 A      | RCPTS         |             |
| RCPTS   |      | 20 A      | 1 | 11      |        |           |                                   |                              | 0.9 | 0.7 | 12   | 1         | 20 A          | RCPTS       |
| RR RCPT   |      | 20 A      | 1 | 13      | 1.0    | 1.1       |                                   |                              |     | 14  | 1    | 20 A      | RCPTS         |             |
| RCPTS   |      | 20 A      | 1 | 15      |        |           | 1.2                               | 1.1                          |     | 16  | 1    | 20 A      | RCPTS         |             |
| RCPTS   |      | 20 A      | 1 | 17      |        |           |                                   | 0.9                          | 0.4 | 18  | 1    | 20 A      | RCPTS         |             |
| RCPTS   |      | 20 A      | 1 | 19      | 0.9    | 1.1       |                                   |                              |     | 20  | 1    | 20 A      | RCPTS         |             |
| RCPTS   |      | 20 A      | 1 | 21      |        |           | 0.7                               | 1.1                          |     | 22  | 1    | 20 A      | RCPTS         |             |
| RCPTS   |      | 20 A      | 1 | 23      |        |           |                                   |                              | 0.7 | 1.1 | 24   | 1         | 20 A          | RCPTS       |
| RCPTS   |      | 20 A      | 1 | 25      | 0.7    | 1.1       |                                   |                              |     | 26  | 1    | 20 A      | RCPTS         |             |
| FURN. SYS   |      | 20 A      | 1 | 27      |        |           | 1.0                               | 0.7                          |     | 28  | 1    | 20 A      | LIGHTS        |             |
| FURN. SYS   |      | 20 A      | 1 | 29      |        |           |                                   |                              | 1.0 | 1.1 | 30   | 1         | 20 A          | LIGHTS      |
| FURN. SYS   |      | 20 A      | 1 | 31      | 1.0    | 0.9       |                                   |                              |     | 32  | 1    | 20 A      | LIGHTS        |             |
| FURN. SYS   |      | 20 A      | 1 | 33      |        |           | 1.0                               | 0.8                          |     | 34  | 1    | 20 A      | LIGHTS        |             |
| RCPT  |      | 20 A      | 1 | 35      |        |           |                                   |                              | 0.7 | 1.2 | 36   | 1         | 20 A          | LIGHTS      |
| RCPT  |      | 20 A      | 1 | 37      | 0.7    | 1.1       |                                   |                              |     | 38  | 1    | 20 A      | LIGHTS        |             |
| RCPT  |      | 20 A      | 1 | 39      |        |           | 0.7                               | 0.7                          |     | 40  | 1    | 20 A      | LIGHTS        |             |
| RCPT  |      | 20 A      | 1 | 41      |        |           |                                   |                              | 0.7 | 0.7 | 42   | 1         | 20 A          | LIGHTS      |
| TELCO EQUIP   |      | 20 A      | 1 | 43      | 0.4    | 1.4       |                                   |                              |     | 44  | 1    | 20 A      | LIGHTS        |             |
| SPARE   |      | 20 A      | 1 | 45      |        |           | 0.0                               | 1.5                          |     | 46  | 1    | 20 A      | LIGHTS        |             |
| SPARE   |      | 20 A      | 1 | 47      |        |           |                                   |                              | 0.0 | 1.1 | 48   | 1         | 20 A          | LIGHTS      |
| SPARE   |      | 20 A      | 1 | 49      | 0.0    | 1.1       |                                   |                              |     | 50  | 1    | 20 A      | LIGHTS        |             |
| SPARE   |      | 20 A      | 1 | 51      |        |           | 0.0                               | 1.4                          |     | 52  | 1    | 20 A      | LIGHTS/FANS   |             |
| SPARE   |      | 20 A      | 1 | 53      |        |           |                                   |                              | 0.0 | 1.3 | 54   | 1         | 20 A          | LIGHTS/FANS |
|   |      |           |   | 55      | 0.0    | 1.2       |                                   |                              |     | 56  | 1    | 20 A      | LIGHTS        |             |
| TVSS  |      | 60 A      | 3 | 57      |        |           | 0.0                               | 0.1                          |     | 58  | 1    | 20 A      | ELEV LOBBY... |             |
|   |      |           |   | 59      |        |           |                                   |                              | 0.0 | 0.0 | 60   | 1         | 20 A          | SPARE       |
| TOTAL LOAD:   |      |           |   |         | 30 kVA | 31 kVA    |                                   |                              |     |     |      |           |               |             |
| TOTAL AMPS:   |      |           |   |         | 248 A  | 259.1 A   | 28 kVA                            |                              |     |     |      |           |               |             |
| LOAD CLASSIFICATION                                       |      | CONNECTED |   | DEMAND  |        | ESTIMATED |                                   | PANEL TOTALS                 |     |     |      |           |               |             |
| Other   |      | 895 VA    |   | 100.00% |        | 895 VA    |                                   |                              |     |     |      |           |               |             |
| RECEPTACLES   |      | 50041 VA  |   | 59.99%  |        | 30020 VA  |                                   | CONNECTED LOAD: 88751 VA     |     |     |      |           |               |             |
| LIGHTING  |      | 1451 VA   |   | 125.00% |        | 1813 VA   |                                   | ESTIMATED DEMAND: 66368 VA   |     |     |      |           |               |             |
| LIGHTING..  |      | 13970 VA  |   | 125.00% |        | 17463 VA  |                                   | CONNECTED CURRENT: 246.3 A   |     |     |      |           |               |             |
| RECEPTACLES.  |      | 22440 VA  |   | 72.28%  |        | 16220 VA  |                                   | EST. DEMAND CURRENT: 184.2 A |     |     |      |           |               |             |
| NOTES:  |      |           |   |         |        |           |                                   |                              |     |     |      |           |               |             |
| 60 POLE PANEL. PROVIDE FEED THROUGH LUGS. SECTION 1 OF 2. |      |           |   |         |        |           |                                   |                              |     |     |      |           |               |             |

| PANELBOARD: 1LB                 |      |           |    |         |        |           |                                   |                             |    |      |      |             |  |
|---------------------------------|------|-----------|----|---------|--------|-----------|-----------------------------------|-----------------------------|----|------|------|-------------|--|
| LOCATION: MECH./ELECT./DATA 176 |      |           |    |         |        |           | VOLTAGE: 208Y/120 V, 3 ø 4 W.     |                             |    |      |      |             |  |
| MOUNTING: SURFACE               |      |           |    |         |        |           | A.I.C. RATING: 53,821 AIC MINIMUM |                             |    |      |      |             |  |
| MAIN DEVICE: 400.0 A MLO        |      |           |    |         |        |           | SPECIAL:                          |                             |    |      |      |             |  |
| BUS AMPS: 400 AMPS              |      |           |    |         |        |           | FED FROM: 1LA                     |                             |    |      |      |             |  |
|                                 |      |           |    |         |        |           |                                   |                             |    |      |      |             |  |
| LOAD NAME                       | NOTE | BKR       | P  | CKT     | A      | B         | C                                 | CKT                         | P  | BKR  | NOTE | LOAD NAME   |  |
| RCPTS                           |      | 20 A      | 1  | 1       | 1.1    | 0.7       |                                   | 2                           | 1  | 20 A |      | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 3       |        | 1.1       | 0.7                               | 4                           | 1  | 20 A |      | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 5       |        |           | 1.1                               | 0.7                         | 6  | 1    | 20 A | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 7       | 1.1    | 0.7       |                                   | 8                           | 1  | 20 A |      | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 9       |        | 0.9       | 0.7                               | 10                          | 1  | 20 A |      | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 11      |        |           | 1.1                               | 0.0                         | 12 | 1    | 20 A | SPARE       |  |
| RCPTS                           |      | 20 A      | 1  | 13      | 1.1    | 0.0       |                                   | 14                          | 1  | 20 A |      | SPARE       |  |
| RCPTS                           |      | 20 A      | 1  | 15      |        | 1.1       | 0.0                               | 16                          | 1  | 20 A |      | SPARE       |  |
| RCPTS                           |      | 20 A      | 1  | 17      |        |           | 0.5                               | 0.2                         | 18 | 1    | 20 A | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 19      | 0.5    | 0.7       |                                   | 20                          | 1  | 20 A |      | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 21      |        | 0.5       | 0.5                               | 22                          | 1  | 20 A |      | RR RCPT     |  |
| REFRIG                          |      | 20 A      | 1  | 23      |        |           | 1.0                               | 0.5                         | 24 | 1    | 20 A | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 25      | 1.0    | 0.7       |                                   | 26                          | 1  | 20 A |      | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 27      |        | 1.0       | 0.5                               | 28                          | 1  | 20 A |      | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 29      |        |           | 0.7                               | 0.9                         | 30 | 1    | 20 A | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 31      | 0.7    | 0.5       |                                   | 32                          | 1  | 20 A |      | RR RCPT     |  |
| RCPTS                           |      | 20 A      | 1  | 33      |        | 0.9       | 0.9                               | 34                          | 1  | 20 A |      | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 35      |        |           | 0.7                               | 0.7                         | 36 | 1    | 20 A | RCPTS       |  |
| RCPTS                           |      | 20 A      | 1  | 37      | 0.7    | 0.5       |                                   | 38                          | 1  | 20 A |      | RCPTS       |  |
| SPARE                           |      | 20 A      | 1  | 39      |        | 0.0       | 1.3                               | 40                          | 1  | 20 A |      | RCPTS       |  |
| SPARE                           |      | 20 A      | 1  | 41      |        |           | 0.0                               | 0.5                         | 42 | 1    | 20 A | RCPTS       |  |
| SPARE                           |      | 20 A      | 1  | 43      | 0.0    | 0.7       |                                   | 44                          | 1  | 20 A |      | RCP         |  |
| RCPTS                           |      | 20 A      | 1  | 45      |        | 1.0       | 0.7                               | 46                          | 1  | 20 A |      | RCP         |  |
| RCPTS                           |      | 20 A      | 1  | 47      |        |           | 0.9                               | 1.5                         | 48 | 1    | 20 A | COPIER      |  |
| RR RCPT                         |      | 20 A      | 1  | 49      | 0.5    | 1.0       |                                   | 50                          | 1  | 20 A |      | REFRIG.     |  |
| RCPTS                           |      | 20 A      | 1  | 51      |        | 0.9       | 0.7                               | 52                          | 1  | 20 A |      | RCPTS       |  |
| SPARE                           |      | 20 A      | 1  | 53      |        |           | 0.0                               | 0.9                         | 54 | 1    | 20 A | RCPTS       |  |
| SPACE                           | --   | 1         | 55 | --      | 0.5    |           |                                   | 56                          | 1  | 20 A |      | RCPTS       |  |
| SPACE                           | --   | 1         | 57 | --      | --     | 0.9       |                                   | 58                          | 1  | 20 A |      | RECEPTACLES |  |
| SPACE                           | --   | 1         | 59 | --      | --     | 1.1       |                                   | 60                          | 1  | 20 A |      | RECEPTACLES |  |
| TOTAL LOAD:                     |      |           |    |         | 13 kVA | 14 kVA    | 13 kVA                            |                             |    |      |      |             |  |
| TOTAL AMPS:                     |      |           |    |         | 107 A  | 119.8 A   | 109 A                             |                             |    |      |      |             |  |
| LOAD CLASSIFICATION             |      | CONNECTED |    | DEMAND  |        | ESTIMATED |                                   | PANEL TOTALS                |    |      |      |             |  |
| RECEPTACLES                     |      | 32393 VA  |    | 65.44%  |        | 21197 VA  |                                   | CONNECTED LOAD: 40313 VA    |    |      |      |             |  |
| RECEPTACLES.                    |      | 7920 VA   |    | 100.00% |        | 7920 VA   |                                   | ESTIMATED DEMAND: 29117 VA  |    |      |      |             |  |
|                                 |      |           |    |         |        |           |                                   | CONNECTED CURRENT: 111.9 A  |    |      |      |             |  |
|                                 |      |           |    |         |        |           |                                   | EST. DEMAND CURRENT: 80.8 A |    |      |      |             |  |

| PANELBOARD: 1M                            |      |           |    |         |                                   |           |     |                              |     |     |     |    |      |      |                |               |                |
|---|------|-----------|----|---------|-----------------------------------|-----------|-----|------------------------------|-----|-----|-----|----|------|------|----------------|---------------|----------------|
| LOCATION: MECH./ELECT./DATA 176           |      |           |    |         | VOLTAGE: 208Y/120 V. 3 ø 4 W.     |           |     |                              |     |     |     |    |      |      |                |               |                |
| MOUNTING: SURFACE                         |      |           |    |         | A.I.C. RATING: 47,940 AIC MINIMUM |           |     |                              |     |     |     |    |      |      |                |               |                |
| MAIN DEVICE: 225.0 A MLO                  |      |           |    |         | SPECIAL:                          |           |     |                              |     |     |     |    |      |      |                |               |                |
| BUS AMPS: 225 AMPS                        |      |           |    |         | FED FROM: MDP1                    |           |     |                              |     |     |     |    |      |      |                |               |                |
|   |      |           |    |         |                                   |           |     |                              |     |     |     |    |      |      |                |               |                |
| LOAD NAME                                 | NOTE | BKR       | P  | A       |                                   |           | B   |                              |     | C   |     |    | CKT  | P    | BKR            | NOTE          | LOAD NAME      |
| VAV-1-1,2,3                               | 20 A | 3         |    | 1       | 1.3                               | 1.2       |     |                              |     |     |     |    | 2    | 3    | 20 A           |               | VAV-1-13,16,17 |
|   |      |           |    | 3       |                                   |           | 1.3 | 1.2                          |     |     | 4   |    |      |      |                |               |                |
|   |      |           |    | 5       |                                   |           |     |                              | 1.3 | 1.2 | 6   |    |      |      |                |               |                |
|   |      |           |    | 7       | 1.3                               | 1.0       |     |                              |     | 8   |     |    |      |      |                |               |                |
| VAV-1-4,5,6,7                             | 20 A | 3         |    | 9       |                                   |           | 1.3 | 1.0                          |     |     |     | 10 | 3    | 20 A |                | VAV-1-15      |                |
|   |      |           |    | 11      |                                   |           |     |                              | 1.3 | 1.0 | 12  |    |      |      |                |               |                |
|   |      |           |    | 13      | 1.2                               | 1.2       |     |                              |     |     | 14  |    |      |      |                |               |                |
|   |      |           |    | 15      |                                   |           | 1.2 | 1.2                          |     |     | 16  |    |      |      |                |               |                |
| VAV-1-8                                   | 20 A | 3         |    | 17      |                                   |           |     |                              |     | 1.2 | 1.2 | 18 | 3    | 20 A |                | VAV-1-18      |                |
|   |      |           |    | 19      | 1.2                               | 1.0       |     |                              |     |     | 20  |    |      |      |                |               |                |
|   |      |           |    | 21      |                                   |           | 1.2 | 1.0                          |     |     | 22  |    |      |      |                |               |                |
|   |      |           |    | 23      |                                   |           |     |                              | 1.2 | 1.0 | 24  |    |      |      |                |               |                |
| VAV-1-10,21                               | 20 A | 3         |    | 25      | 1.2                               | 0.8       |     |                              |     |     |     | 26 | 3    | 20 A |                | VAV-1-20,22   |                |
|   |      |           |    | 27      |                                   |           | 1.2 | 0.8                          |     |     | 28  |    |      |      |                |               |                |
|   |      |           |    | 29      |                                   |           |     |                              | 1.2 | 0.8 | 30  |    |      |      |                |               |                |
|   |      |           |    | 31      | 1.3                               | --        |     |                              |     |     | 32  |    |      |      |                |               |                |
| VAV-1-11,12                               | 20 A | 3         |    | 33      |                                   |           | 1.3 | --                           |     |     |     | 34 | 3    | --   |                | SPACE         |                |
|   |      |           |    | 35      |                                   |           |     |                              | 1.3 | --  | 36  |    |      |      |                |               |                |
|   |      |           |    | 37      | --                                | 2.3       |     |                              |     |     | 38  |    |      |      |                |               |                |
|   |      |           |    | 39      |                                   |           | --  | 2.3                          |     |     | 40  |    |      |      |                |               |                |
| SPACE                                     | --   | 3         |    | 41      |                                   |           |     |                              | --  | 0.6 | 42  | 2  | 20 A |      | SUMP PUMP SP-1 |               |                |
|   |      |           |    | 43      | 2.3                               | 0.6       |     |                              |     |     | 44  |    |      |      |                |               |                |
| EWH-1                                     | 20 A | 2         |    | 45      |                                   |           | 2.3 | 0.2                          |     |     |     | 46 | 1    | 20 A |                | ELEV PIT RCPT |                |
|   |      |           |    | 47      |                                   |           |     |                              | 2.3 | 0.2 | 48  |    |      |      |                |               |                |
| EWH-2                                     | 20 A | 2         |    | 49      | 2.3                               | 0.2       |     |                              |     |     |     | 50 | 1    | 20 A |                | ELEV PIT LTS  |                |
|   |      |           |    | 51      |                                   |           | 2.3 | 0.5                          |     |     | 52  |    |      |      |                |               |                |
| EWH-3                                     | 20 A | 2         |    | 53      |                                   |           |     |                              | 2.3 | 0.2 | 54  | 1  | 20 A |      | ELEV MACH RCPT |               |                |
|   |      |           |    | 55      | 2.3                               | --        |     |                              |     |     | 56  |    |      |      |                |               |                |
| EWH-4                                     | 20 A | 2         |    | 57      |                                   |           | 2.3 | --                           |     |     |     | 58 | 1    | --   |                | SPACE         |                |
|   |      |           |    | 59      |                                   |           |     |                              | 0.0 | --  | 60  |    |      |      |                |               |                |
| SPARE                                     | 20 A | 1         | 59 |         |                                   |           |     |                              | 0.0 | --  |     | 61 | 1    | --   |                | SPACE         |                |
| SPARE                                     | 20 A | 1         | 61 | 0.0     | --                                |           |     |                              |     |     | 62  |    |      |      |                |               |                |
| SPARE                                     | 20 A | 1         | 63 |         |                                   | 0.0       | --  |                              |     |     | 64  |    |      |      |                |               |                |
| SPARE                                     | 20 A | 1         | 65 |         |                                   |           |     | 0.0                          | --  |     | 66  |    |      |      |                |               |                |
| TOTAL LOAD:                               |      |           |    | 22 kVA  |                                   | 22 kVA    |     | 18 kVA                       |     |     |     |    |      |      |                |               |                |
| TOTAL AMPS:                               |      |           |    | 192 A   |                                   | 191.7 A   |     | 151 A                        |     |     |     |    |      |      |                |               |                |
| LOAD CLASSIFICATION                       |      | CONNECTED |    | DEMAND  |                                   | ESTIMATED |     | PANEL TOTALS                 |     |     |     |    |      |      |                |               |                |
| RECEPTACLES                               |      | 1240 VA   |    | 100.00% |                                   | 1240 VA   |     | CONNECTED LOAD: 62843 VA     |     |     |     |    |      |      |                |               |                |
| MTR                                       |      | 61603 VA  |    | 101.83% |                                   | 62728 VA  |     | ESTIMATED DEMAND: 63968 VA   |     |     |     |    |      |      |                |               |                |
|   |      |           |    |         |                                   |           |     | CONNECTED CURRENT: 174.4 A   |     |     |     |    |      |      |                |               |                |
|   |      |           |    |         |                                   |           |     | EST. DEMAND CURRENT: 177.6 A |     |     |     |    |      |      |                |               |                |
|   |      |           |    |         |                                   |           |     |                              |     |     |     |    |      |      |                |               |                |
|   |      |           |    |         |                                   |           |     |                              |     |     |     |    |      |      |                |               |                |
| NOTES:                                    |      |           |    |         |                                   |           |     |                              |     |     |     |    |      |      |                |               |                |
| 66 POLE PANEL. PROVIDE FEED THROUGH LUGS. |      |           |    |         |                                   |           |     |                              |     |     |     |    |      |      |                |               |                |

| PANELBOARD: 2LB   |      |           |   |        |                                   |           |        |              |     |      |      |           |             |
|---|------|-----------|---|--------|-----------------------------------|-----------|--------|--------------|-----|------|------|-----------|-------------|
| LOCATION: MECH/ELECT./DATA 222                            |      |           |   |        | VOLTAGE: 208Y/120 V. 3 ø 4 W.     |           |        |              |     |      |      |           |             |
| MOUNTING: SURFACE   |      |           |   |        | A.I.C. RATING: 35,863 AIC MINIMUM |           |        |              |     |      |      |           |             |
| MAIN DEVICE: 225.0 A MLO                                  |      |           |   |        | SPECIAL:                          |           |        |              |     |      |      |           |             |
| BUS AMPS: 225 AMPS  |      |           |   |        | FED FROM: MDP2                    |           |        |              |     |      |      |           |             |
| LOAD NAME   | NOTE | BKR       | P | CKT    | A                                 | B         | C      | CKT          | P   | BKR  | NOTE | LOAD NAME |             |
| FURN. SYS   |      | 20 A      | 1 | 1      | 1.0                               | 1.0       |        | 2            | 1   | 20 A |      | FURN. SYS |             |
| FURN. SYS   |      | 20 A      | 1 | 3      |                                   | 1.0       | 1.0    |              | 4   | 1    | 20 A | FURN. SYS |             |
| FURN. SYS   |      | 20 A      | 1 | 5      |                                   |           |        | 1.0          | 1.0 | 6    | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 7      | 1.0                               | 1.0       |        |              |     | 8    | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 9      |                                   |           | 1.0    | 1.0          |     | 10   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 11     |                                   |           |        | 1.0          | 1.0 | 12   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 13     | 1.0                               | 1.0       |        |              |     | 14   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 15     |                                   | 1.0       | 1.0    |              |     | 16   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 17     |                                   |           |        | 1.0          | 1.0 | 18   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 19     | 1.0                               | 1.0       |        |              |     | 20   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 21     |                                   | 1.0       | 1.0    |              |     | 22   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 23     |                                   |           |        | 1.0          | 1.0 | 24   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 25     | 1.0                               | 1.0       |        |              |     | 26   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 27     |                                   | 1.0       | 1.0    |              |     | 28   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 29     |                                   |           |        | 1.0          | 1.0 | 30   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 31     | 1.0                               | 1.0       |        |              |     | 32   | 1    | 20 A      | FURN. SYS   |
| FURN. SYS   |      | 20 A      | 1 | 33     |                                   | 1.0       | 0.0    |              |     | 34   | 1    | 20 A      | SPARE       |
| FURN. SYS   |      | 20 A      | 1 | 35     |                                   |           |        | 1.0          | 0.0 | 36   | 1    | 20 A      | SPARE       |
| FURN. SYS   |      | 20 A      | 1 | 37     | 1.0                               | 0.7       |        |              |     | 38   | 1    | 20 A      | RCPTS       |
| FURN. SYS   |      | 20 A      | 1 | 39     |                                   | 1.0       | 1.3    |              |     | 40   | 1    | 20 A      | RCPTS       |
| FURN. SYS   |      | 20 A      | 1 | 41     |                                   |           |        | 1.0          | 0.5 | 42   | 1    | 20 A      | SMOKE WALL  |
| FURN. SYS   |      | 20 A      | 1 | 43     | 1.0                               | 0.4       |        |              |     | 44   | 1    | 20 A      | RECEPTACLES |
| FURN. SYS   |      | 20 A      | 1 | 45     |                                   | 1.0       | 1.0    |              |     | 46   | 1    | 20 A      | COPIER      |
| FURN. SYS   |      | 20 A      | 1 | 47     |                                   |           |        | 1.0          | 0.0 | 48   | 1    | 20 A      | SPARE       |
| SPARE   |      | 20 A      | 1 | 49     | 0.0                               | 0.0       |        |              |     | 50   | 1    | 20 A      | SPARE       |
| SPARE   |      | 20 A      | 1 | 51     |                                   | 0.0       | 0.0    |              |     | 52   | 1    | 20 A      | SPARE       |
| SPARE   |      | 20 A      | 1 | 53     |                                   |           |        | 0.0          | 0.0 | 54   | 1    | 20 A      | SPARE       |
| TOTAL LOAD:   |      |           |   |        | 26 kVA                            | 26 kVA    | 24 kVA |              |     |      |      |           |             |
| TOTAL AMPS:   |      |           |   |        | 220 A                             | 220.3 A   | 196 A  |              |     |      |      |           |             |
| LOAD CLASSIFICATION                                       |      | CONNECTED |   | DEMAND |                                   | ESTIMATED |        | PANEL TOTALS |     |      |      |           |             |
| RECEPTACLES   |      | 75520 VA  |   | 56.62% |                                   | 42760 VA  |        |              |     |      |      |           |             |
| CONNECTED LOAD: 75520 VA                                  |      |           |   |        |                                   |           |        |              |     |      |      |           |             |
| ESTIMATED DEMAND: 42760 VA                                |      |           |   |        |                                   |           |        |              |     |      |      |           |             |
| CONNECTED CURRENT: 209.6 A                                |      |           |   |        |                                   |           |        |              |     |      |      |           |             |
| EST. DEMAND CURRENT: 118.7 A                              |      |           |   |        |                                   |           |        |              |     |      |      |           |             |
|   |      |           |   |        |                                   |           |        |              |     |      |      |           |             |
| NOTES:  |      |           |   |        |                                   |           |        |              |     |      |      |           |             |
| 54 POLE PANEL. PROVIDE FEED THROUGH LUGS. SECTION 1 OF 2. |      |           |   |        |                                   |           |        |              |     |      |      |           |             |

| PANELBOARD: 2LC   |      |           |    |        |                                   |           |        |                             |     |     |      |           |           |  |
|---|------|-----------|----|--------|-----------------------------------|-----------|--------|-----------------------------|-----|-----|------|-----------|-----------|--|
| LOCATION: MECH/ELECT./DATA 222                            |      |           |    |        | VOLTAGE: 208Y/120 V. 3 ø 4 W.     |           |        |                             |     |     |      |           |           |  |
| MOUNTING: SURFACE   |      |           |    |        | A.I.C. RATING: 35,863 AIC MINIMUM |           |        |                             |     |     |      |           |           |  |
| MAIN DEVICE: 225.0 A MLO                                  |      |           |    |        | SPECIAL:                          |           |        |                             |     |     |      |           |           |  |
| BUS AMPS: 225 AMPS  |      |           |    |        | FED FROM: 2LB                     |           |        |                             |     |     |      |           |           |  |
|   |      |           |    |        |                                   |           |        |                             |     |     |      |           |           |  |
| LOAD NAME   | NOTE | BKR       | P  | CKT    | A                                 | B         | C      | CKT                         | P   | BKR | NOTE | LOAD NAME |           |  |
| FURN. SYS   |      | 20 A      | 1  | 1      | 1.0                               | 1.0       |        |                             |     | 2   | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 3      |                                   |           | 1.0    | 1.0                         |     | 4   | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 5      |                                   |           |        | 1.0                         | 1.0 | 6   | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 7      | 1.0                               | 1.0       |        |                             |     | 8   | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 9      |                                   |           | 1.0    | 1.0                         |     | 10  | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 11     |                                   |           |        | 1.0                         | 1.0 | 12  | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 13     | 1.0                               | 1.0       |        |                             |     | 14  | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 15     |                                   |           | 1.0    | 1.0                         |     | 16  | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 17     |                                   |           |        | 1.0                         | 1.0 | 18  | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 19     | 1.0                               | 1.0       |        |                             |     | 20  | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 21     |                                   |           | 1.0    | 1.0                         |     | 22  | 1    | 20 A      | FURN. SYS |  |
| FURN. SYS   |      | 20 A      | 1  | 23     |                                   |           |        | 1.0                         | 1.0 | 24  | 1    | 20 A      | FURN. SYS |  |
| SPARE   |      | 20 A      | 1  | 25     | 0.0                               | 1.0       |        |                             |     | 26  | 1    | 20 A      | FURN. SYS |  |
| SPARE   |      | 20 A      | 1  | 27     |                                   |           | 0.0    | 1.0                         |     | 28  | 1    | 20 A      | FURN. SYS |  |
| SPARE   |      | 20 A      | 1  | 29     |                                   |           |        | 0.0                         | 1.0 | 30  | 1    | 20 A      | FURN. SYS |  |
| SPARE   |      | 20 A      | 1  | 31     | 0.0                               | 1.0       |        |                             |     | 32  | 1    | 20 A      | FURN. SYS |  |
| SPARE   |      | 20 A      | 1  | 33     |                                   |           | 0.0    | 1.0                         |     | 34  | 1    | 20 A      | FURN. SYS |  |
| SPARE   |      | 20 A      | 1  | 35     |                                   |           |        | 0.0                         | 1.0 | 36  | 1    | 20 A      | FURN. SYS |  |
| SPACE   | --   | 1         | 37 |        | --                                | 1.0       |        |                             |     | 38  | 1    | 20 A      | FURN. SYS |  |
| SPACE   | --   | 1         | 39 |        |                                   | --        | 1.0    |                             |     | 40  | 1    | 20 A      | FURN. SYS |  |
| SPACE   | --   | 1         | 41 |        |                                   |           |        | --                          | 0.0 | 42  | 1    | 20 A      | SPARE     |  |
| SPACE   | --   | 1         | 43 | --     | 0.0                               |           |        |                             |     | 44  | 1    | 20 A      | SPARE     |  |
| SPACE   | --   | 1         | 45 |        |                                   | --        | 0.0    |                             |     | 46  | 1    | 20 A      | SPARE     |  |
| SPACE   | --   | 1         | 47 |        |                                   |           |        | --                          | 0.0 | 48  | 1    | 20 A      | SPARE     |  |
| SPACE   | --   | 1         | 49 |        | --                                | --        |        |                             |     | 50  | 1    | --        | SPACE     |  |
| SPACE   | --   | 1         | 51 |        |                                   | --        | --     |                             |     | 52  | 1    | --        | SPACE     |  |
| SPACE   | --   | 1         | 53 |        |                                   |           |        | --                          | --  | 54  | 1    | --        | SPACE     |  |
|   |      |           |    |        | TOTAL LOAD:                       | 11 kVA    | 11 kVA | 10 kVA                      |     |     |      |           |           |  |
|   |      |           |    |        | TOTAL AMPS:                       | 93 A      | 92.9 A | 83 A                        |     |     |      |           |           |  |
| LOAD CLASSIFICATION                                       |      | CONNECTED |    | DEMAND |                                   | ESTIMATED |        | PANEL TOTALS                |     |     |      |           |           |  |
| RECEPTACLES   |      | 32000 VA  |    | 65.63% |                                   | 21000 VA  |        |                             |     |     |      |           |           |  |
|   |      |           |    |        |                                   |           |        | CONNECTED LOAD: 32000 VA    |     |     |      |           |           |  |
|   |      |           |    |        |                                   |           |        | ESTIMATED DEMAND: 21000 VA  |     |     |      |           |           |  |
|   |      |           |    |        |                                   |           |        | CONNECTED CURRENT: 88.8 A   |     |     |      |           |           |  |
|   |      |           |    |        |                                   |           |        | EST. DEMAND CURRENT: 58.3 A |     |     |      |           |           |  |
|   |      |           |    |        |                                   |           |        |                             |     |     |      |           |           |  |
| NOTES:  |      |           |    |        |                                   |           |        |                             |     |     |      |           |           |  |
| 54 POLE PANEL. PROVIDE FEED THROUGH LUGS. SECTION 2 OF 2. |      |           |    |        |                                   |           |        |                             |     |     |      |           |           |  |

| PANELBOARD: 2M                            |      |           |   |         |                                   |           |         |                              |        |     |     |    |       |      |                   |          |    |       |
|---|------|-----------|---|---------|-----------------------------------|-----------|---------|------------------------------|--------|-----|-----|----|-------|------|-------------------|----------|----|-------|
| LOCATION: MECH/ELECT./DATA 222            |      |           |   |         | VOLTAGE: 208Y/120 V. 3 ø 4 W.     |           |         |                              |        |     |     |    |       |      |                   |          |    |       |
| MOUNTING: SURFACE                         |      |           |   |         | A.I.C. RATING: 42,873 AIC MINIMUM |           |         |                              |        |     |     |    |       |      |                   |          |    |       |
| MAIN DEVICE: 400.0 A MLO                  |      |           |   |         | SPECIAL:                          |           |         |                              |        |     |     |    |       |      |                   |          |    |       |
| BUS AMPS: 400 AMPS                        |      |           |   |         | FED FROM: MDP2                    |           |         |                              |        |     |     |    |       |      |                   |          |    |       |
| LOAD NAME                                 | NOTE | BKR       | P | CKT     | A                                 |           | B       |                              | C      |     | CKT | P  | BKR   | NOTE | LOAD NAME         |          |    |       |
| VAV-2-1,2                                 |      | 20 A      | 3 | 1       | 1.2                               | 2.2       |         |                              |        |     | 2   | 3  | 25 A  |      | VAV-2-9           |          |    |       |
|   |      |           |   | 3       |                                   |           | 1.2     | 2.2                          |        | 4   |     |    |       |      |                   |          |    |       |
|   |      |           |   | 5       |                                   |           |         |                              | 1.2    | 2.2 | 6   |    |       |      |                   |          |    |       |
|   |      |           |   | 7       | 1.7                               | 1.3       |         |                              |        |     | 8   |    |       |      |                   |          |    |       |
| VAV-2-3,17                                |      | 20 A      | 3 | 9       |                                   |           | 1.7     | 1.3                          |        |     | 10  | 3  | 20 A  |      | VAV-2-10,11       |          |    |       |
|   |      |           |   | 11      |                                   |           |         |                              | 1.7    | 1.3 | 12  |    |       |      |                   |          |    |       |
|   |      |           |   | 13      | 1.5                               | 1.3       |         |                              |        |     | 14  |    |       |      |                   |          |    |       |
|   |      |           |   | 15      |                                   |           | 1.5     | 1.3                          |        |     | 16  |    |       |      |                   |          |    |       |
| VAV-2-4,5                                 |      | 20 A      | 3 | 17      |                                   |           |         |                              |        | 1.5 | 1.3 | 18 | 3     | 20 A |                   | VAV-2-13 |    |       |
|   |      |           |   | 19      | 1.2                               | 1.5       |         |                              |        |     | 20  |    |       |      |                   |          |    |       |
|   |      |           |   | 21      |                                   |           | 1.2     | 1.5                          |        |     | 22  |    |       |      |                   |          |    |       |
|   |      |           |   | 23      |                                   |           |         | 1.2                          | 1.5    |     | 24  |    |       |      |                   |          |    |       |
| VAV-2-7,15                                |      | 20 A      | 3 | 25      | 0.7                               | 2.3       |         | 0.7                          | 2.3    |     |     | 26 | 3     | 30 A |                   | FP-2-1   |    |       |
|   |      |           |   | 27      |                                   |           |         |                              | 0.7    | 2.3 | 28  |    |       |      |                   |          |    |       |
|   |      |           |   | 29      |                                   |           |         |                              |        |     | 30  |    |       |      |                   |          |    |       |
|   |      |           |   | 31      | 1.2                               | 9.0       |         |                              |        |     | 32  |    |       |      |                   |          |    |       |
| VAV-2-8,12,16                             |      | 20 A      | 3 | 33      |                                   |           | 1.2     | 9.0                          |        |     | 34  | 3  | 100 A |      | WATER HEATER WH-1 |          |    |       |
|   |      |           |   | 35      |                                   |           |         |                              | 1.2    | 9.0 | 36  |    |       |      |                   |          |    |       |
|   |      |           |   | 37      | 0.1                               | --        |         |                              |        |     | 38  |    |       |      |                   | 1        | -- | SPACE |
|   |      |           |   | 39      |                                   |           | 0.0     | --                           |        |     | 40  |    |       |      |                   | 1        | -- | SPACE |
| CIRC. PUMP RC-1                           |      | 20 A      | 1 | 39      |                                   |           |         |                              |        |     |     | 41 | --    |      | SPACE             |          |    |       |
| SPARE                                     |      | 20 A      | 1 | 41      |                                   |           |         |                              |        | 0.0 | --  | 42 | 1     | --   | SPACE             |          |    |       |
| SPARE                                     |      | --        | 1 | 43      | --                                | --        |         |                              |        |     |     | 44 | 1     | --   | SPACE             |          |    |       |
| SPARE                                     |      | --        | 1 | 45      |                                   |           | --      | --                           |        |     |     | 46 | 1     | --   | SPACE             |          |    |       |
| SPARE                                     |      | --        | 1 | 47      |                                   |           |         |                              | --     | --  |     | 48 | 1     | --   | SPACE             |          |    |       |
| SPARE                                     |      | --        | 1 | 49      | --                                | --        |         |                              |        |     |     | 50 | 1     | --   | SPACE             |          |    |       |
| SPARE                                     |      | --        | 1 | 51      |                                   |           | --      | --                           |        |     |     | 52 | 1     | --   | SPACE             |          |    |       |
| SPARE                                     |      | --        | 1 | 53      |                                   |           |         |                              |        | --  | --  | 54 | 1     | --   | SPACE             |          |    |       |
| TOTAL LOAD:                               |      |           |   |         | 25 kVA                            |           | 25 kVA  |                              | 25 kVA |     |     |    |       |      |                   |          |    |       |
| TOTAL AMPS:                               |      |           |   |         | 209 A                             |           | 208.3 A |                              | 208 A  |     |     |    |       |      |                   |          |    |       |
| LOAD CLASSIFICATION                       |      | CONNECTED |   | DEMAND  |                                   | ESTIMATED |         | PANEL TOTALS                 |        |     |     |    |       |      |                   |          |    |       |
| MTR                                       |      | 75120 VA  |   | 108.99% |                                   | 81870 VA  |         |                              |        |     |     |    |       |      |                   |          |    |       |
|   |      |           |   |         |                                   |           |         | CONNECTED LOAD: 75120 VA     |        |     |     |    |       |      |                   |          |    |       |
|   |      |           |   |         |                                   |           |         | ESTIMATED DEMAND: 81870 VA   |        |     |     |    |       |      |                   |          |    |       |
|   |      |           |   |         |                                   |           |         | CONNECTED CURRENT: 208.5 A   |        |     |     |    |       |      |                   |          |    |       |
|   |      |           |   |         |                                   |           |         | EST. DEMAND CURRENT: 227.2 A |        |     |     |    |       |      |                   |          |    |       |
|   |      |           |   |         |                                   |           |         |                              |        |     |     |    |       |      |                   |          |    |       |
|   |      |           |   |         |                                   |           |         |                              |        |     |     |    |       |      |                   |          |    |       |
| NOTES:                                    |      |           |   |         |                                   |           |         |                              |        |     |     |    |       |      |                   |          |    |       |
| 54 POLE PANEL. PROVIDE FEED THROUGH LUGS. |      |           |   |         |                                   |           |         |                              |        |     |     |    |       |      |                   |          |    |       |