

KAYSVILLE CITY POLICE STATION

KAYSVILLE, UTAH

ABBREVIATIONS

|        |                       |        |                           |          |                                       |        |                        |
|--------|-----------------------|--------|---------------------------|----------|---------------------------------------|--------|------------------------|
| A      | ACOUSTIC              | E      | EACH                      | L        | LAMINATED                             | RFG.   | ROOFING                |
| ADD    | ADDENDUM              | E.A.   | ELEC. WATER COOLER        | L.A.     | LANDING                               | R.M.   | ROOM                   |
| A/C    | AIR CONDITIONING      | EL.    | ELECTRIC                  | L.DG.    | LAVATORY                              | R.GH.  | ROUGH                  |
| ALT.   | ALTERNATE             | ELEV.  | ELEVATION                 | L.V.     | LIGHT                                 | RND.   | ROUND                  |
| AL     | ALUMINUM              | EQ.    | EQUAL                     | L.V.C.   | LIGHT WEIGHT CONCRETE                 | S      | SCREW                  |
| A.B.   | ANCHOR BOLT           | EQUIP. | EQUIPMENT                 | L.V.R.   | LOUVER                                | SCR.   | SECTION                |
| &      | AND                   | EXH.   | EXHAUST                   | M        |                                       | SEL.   | SELECT                 |
| ARCH   | ARCHITECT(URAL)       | EXIST. | EXISTING                  | M.B.     | MACHINE BOLT                          | SHT.   | SHEET                  |
| ASP.   | ASPHALT               | E.J.   | EXPANSION JOINT           | MFR.     | MANUFACTURER                          | SIM.   | SIMILAR                |
| @      |                       | EXT.   | EXTERIOR                  | M.O.     | MASONRY OPENING                       | SLDG.  | SLIDING                |
| B      |                       | F      |                           | MATL.    | MATERIAL                              | SM.    | SMOOTH                 |
| BSMT.  | BASEMENT              | FT.    | FEET                      | MAX.     | MAXIMUM                               | SPEC.  | SPECIFICATION          |
| B.M.   | BENCHMARK             | FIN.   | FINISHED                  | MECH.    | MECHANICAL                            | SPL.   | SPLASH                 |
| BKG.   | BLOCKING              | F.E.   | FIRE EXTINGUISHER         | MTL.     | METAL                                 | SQ.    | SQUARE                 |
| BD.    | BOARD                 | F.E.C. | FIRE EXTINGUISHER CABINET | MIN.     | MINIMUM                               | S.S.   | STAINLESS STEEL        |
| B.O.   | BOTTOM OF             | FKT.   | FIXTURE                   | MLDG.    | MOLDING                               | STD.   | STANDARD               |
| B.DG.  | BUILDING              | FL.    | FLASHING                  | MULL.    | MULLION                               | STRUC. | STRUCTURE              |
| C      |                       | G      |                           | N        |                                       | SUP.   | SUSPENDED              |
| CABT   | CABINET               | GALV.  | GALVANIZED                | N.G.     | NATURAL GRADE                         | SWBD.  | SWITCHBOARD            |
| C.I.P. | CAST IN PLACE         | GA.    | GAUGE                     | NOM.     | NOMINAL                               | T      |                        |
| C.B.   | CATCH BASIN           | G.C.   | GENERAL CONTRACTOR        | N/A      | NOT APPLICABLE                        | TELCO  | TELEPHONE COMPANY      |
| CLG.   | CEILING               | G.S.N. | GENERAL STRUCTURAL NOTES  | N.I.C.   | NOT IN CONTRACT                       | T.G.   | TEMPERED GLASS         |
| CL     | CENTER LINE           | GL     | GLASS                     | N.T.S.   | NOT TO SCALE                          | T&G    | TONGUE & GROOVE        |
| C.T.   | CERAMIC TILE          | GD.    | GRADE                     | O        |                                       | T&B    | TOP & BOTTOM           |
| CH     | CHANNEL               | GRL    | GRILLE                    | O.C.     | ON CENTER                             | T.O.   | TOP OF                 |
| C.O.   | CLEAN OUT             | GRD.   | GROUND                    | O.P.N.G. | OPENING                               | T.O.C. | TOP OF CURB            |
| CLR    | CLEAR                 | GYP.   | GYPNUM                    | O.D.     | OUTSIDE DIAMETER                      | T.O.D. | TOP OF DECK            |
| CL     | CLOSET                | H      |                           | O.F.S.   | OVERFLOW SCUPPER                      | T.O.P. | TOP OF PARAPET         |
| COL.   | COLUMN                | HDW.   | HARDWARE                  | O.F.C.I. | OWNER FURNISHED, CONTRACTOR INSTALLED | T.O.W. | TOP OF WALL            |
| CONC.  | CONCRETE              | HWOD.  | HARDWOOD                  | P        |                                       | U      | UNLESS NOTED OTHERWISE |
| CMU    | CONCRETE MASONRY UNIT | HTR.   | HEATER                    | PT.      | PAINT                                 | U.N.O. |                        |
| COND.  | CONDITION             | HT.    | HEIGHT                    | PTD.     | PAINTED                               | V      |                        |
| CONN.  | CONNECTION            | H.P.   | HIGH POINT                | PR.      | PAIR                                  | V.     | VENT                   |
| CONST. | CONSTRUCTION          | H.M.   | HOLLOW METAL              | P.N.L.   | PANEL                                 | V.T.R. | VENT THROUGH ROOF      |
| CONT   | CONTINUOUS            | HORIZ. | HORIZONTAL                | d        | PENNY                                 | VERT.  | VERTICAL               |
| CJ     | CONTROL JOINT         | H.B.   | HOSE BIB                  | P.L.     | PLASTIC LAMINATE                      | V.G.   | VERTICAL GRAIN         |
| D      |                       | H.W.   | HOT WATER                 | PL       | PLATE                                 | VEST.  | VESTIBULE              |
| D.P.   | DAMP PROOFING         | HR.    | HOUR                      | P.L.     | PLASTIC LAMINATE                      | V.C.T. | VINYL COMPOSITION TILE |
| D.B.   | DECK BEARING          | I      |                           | PLYWD    | PLYWOOD                               | V.C.P. | VITREOUS CLAY PIPE     |
| DIAG.  | DIAGONAL              | IN.    | INCH                      | P.S.I.   | POUND PER SQUARE INCH                 | W      |                        |
| DIA.   | DIAMETER              | I.D.   | INSIDE DIAMETER           | P.S.F.   | POUND PER SQUARE FOOT                 | W.C.   | WATER CLOSET           |
| DIM.   | DIMENSION             | INSUL. | INSULATION                | R        |                                       | W.H.   | WATER HEATER           |
| DISP.  | DISPENSER             | INT.   | INTERIOR                  | RAD.     | RADIUS                                | W.P.   | WATER PROOF            |
| DWL.   | DOWEL                 | INV.   | INVERT                    | REC.     | RECOMMENDATION                        | W.R.   | WATER RESISTANT        |
| DN.    | DOWN                  | J      |                           | REG.     | REGISTER                              | W.W.F. | WELDED WIRE FABRIC     |
| D.S.   | DOWN SPOUT            | JAN.   | JANITOR                   | REQD.    | REQUIRED                              | W.F.   | WIRE FLANGE            |
| D.W.V. | DRAINAGE WASTE VENT   | JT.    | JOINT                     | R.A.     | RETURN AIR                            | WDW.   | WINDOW                 |
| DWG.   | DRAWING               | JST.   | JOIST                     | REV.     | REVISION                              | W      | WITH                   |
|        |                       |        |                           | R.D.     | ROOF DRAIN                            | W/O    | WITHOUT                |
|        |                       |        |                           |          |                                       | WD.    | WOOD                   |

MATERIALS / SYMBOLS

|  |                               |  |                                   |
|--|-------------------------------|--|-----------------------------------|
|  | PLYWOOD (SECTION)             |  | CENTERLINE                        |
|  | WOOD MOLDING                  |  | BUILDING SECTION FLAG             |
|  | CONCRETE (SECTION)            |  | WALL SECTION / EXTERIOR ELEVATION |
|  | GYPNUM BOARD (SECTION)        |  | INTERIOR ELEVATION                |
|  | TILE (PLAN)                   |  | DETAIL                            |
|  | COMPACTED GRAVEL (SECTION)    |  | GRID HEAD                         |
|  | COMPACTED SUBGRADE            |  | WINDOW TAG                        |
|  | STEEL FRAMING (PLAN, SECTION) |  | DOOR TAG                          |
|  | CMU (PLAN, SECTION)           |  | ROOM TAG                          |
|  | BRICK VENEER (PLAN, SECTION)  |  | KEYNOTE TAG                       |
|  | RIGID INSULATION (SECTION)    |  | REVISION TAG                      |
|  | WINDOW GLAZING SCHEDULE       |  | WINDOW GLAZING SCHEDULE           |
|  | WALL TYPE                     |  | ELEVATION (DATUM)                 |
|  | VIEW NAME                     |  | DRAWING TITLE                     |

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DRAWING INDEX

|                     |            |                                        |
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| GENERAL INFORMATION | ME501      | MECHANICAL DETAILS                     |
| GH101               | ME502      | MECHANICAL DETAILS                     |
| GH111               | ME503      | MECHANICAL SCHEDULES                   |
| DS101               | ME502      | MECHANICAL SCHEDULES                   |
| AS101               | ME701      | MECHANICAL SCHEMATICS                  |
|                     | ME702      | MECHANICAL SCHEMATICS                  |
|                     | MP101      | MAIN FLOOR MECHANICAL PIPING PLAN      |
|                     | MS101      | MECHANICAL SITE PLAN                   |
| CIVIL               | PLUMBING   |                                        |
| C1                  | PE101      | MAIN FLOOR PLUMBING PLAN               |
| C2                  | PE102      | ANCILLARY BUILDING PLUMBING PLAN       |
| C3                  | PE401      | MAIN FLOOR ENLARGE PLUMBING PLANS      |
| C4                  | PE501      | PLUMBING DETAILS                       |
| C5                  | PE601      | PLUMBING SCHEDULES                     |
| ARCHITECTURAL       | ELECTRICAL |                                        |
| AE101               | EG001      | SYMBOLS, SCHEDULES, AND NOTES          |
| AE102               | ES101      | SITE PLAN                              |
| AE111               | EL101      | LIGHTING PLAN                          |
| AE151               | EL102      | ANCILLARY BUILDING LIGHTING/POWER PLAN |
| AE161               | EP101      | POWER PLAN                             |
| AE201               | EP102      | ROOF PLAN                              |
| AE211               | EY101      | SYSTEMS PLAN                           |
| AE351               | EY102      | LOW VOLTAGE PLAN                       |
| AE352               | EX101      | ONE LINE DIAGRAM                       |
| AE401               | EX201      | PANELBOARD SCHEDULES                   |
| AE411               | EX301      | ELECTRICAL DIAGRAMS                    |
| AE412               | EX302      | AV DIAGRAMS                            |
| AE501               |            |                                        |
| AE511               |            |                                        |
| AE521               |            |                                        |
| AE541               |            |                                        |
| AE542               |            |                                        |
| AE571               |            |                                        |
| AE591               |            |                                        |
| AE592               |            |                                        |
| AE601               |            |                                        |
| STRUCTURAL          |            |                                        |
| S001                |            |                                        |
| S101                |            |                                        |
| S111                |            |                                        |
| S121                |            |                                        |
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| S202                |            |                                        |
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| S601                |            |                                        |
| S602                |            |                                        |
| MECHANICAL          |            |                                        |
| ME301               |            |                                        |
| ME101               |            |                                        |
| ME102               |            |                                        |
| ME401               |            |                                        |

KAYSVILLE CITY POLICE  
STATION

KAYSVILLE, UTAH



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|                             |                    |
|-----------------------------|--------------------|
| DATE/REVISION<br>12-03-2013 | PROJECT #<br>10002 |
|-----------------------------|--------------------|

GENERAL  
INFORMATION

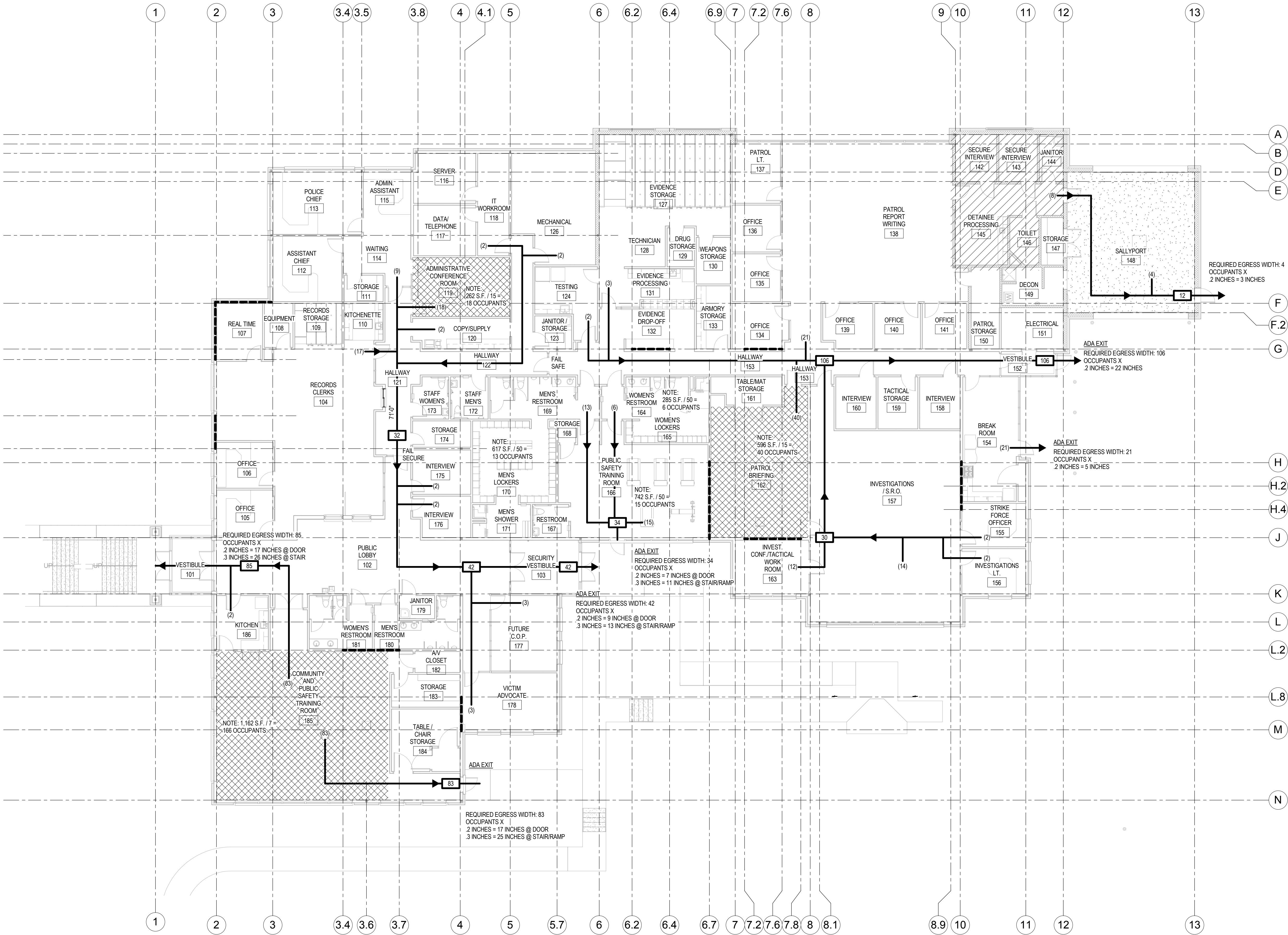
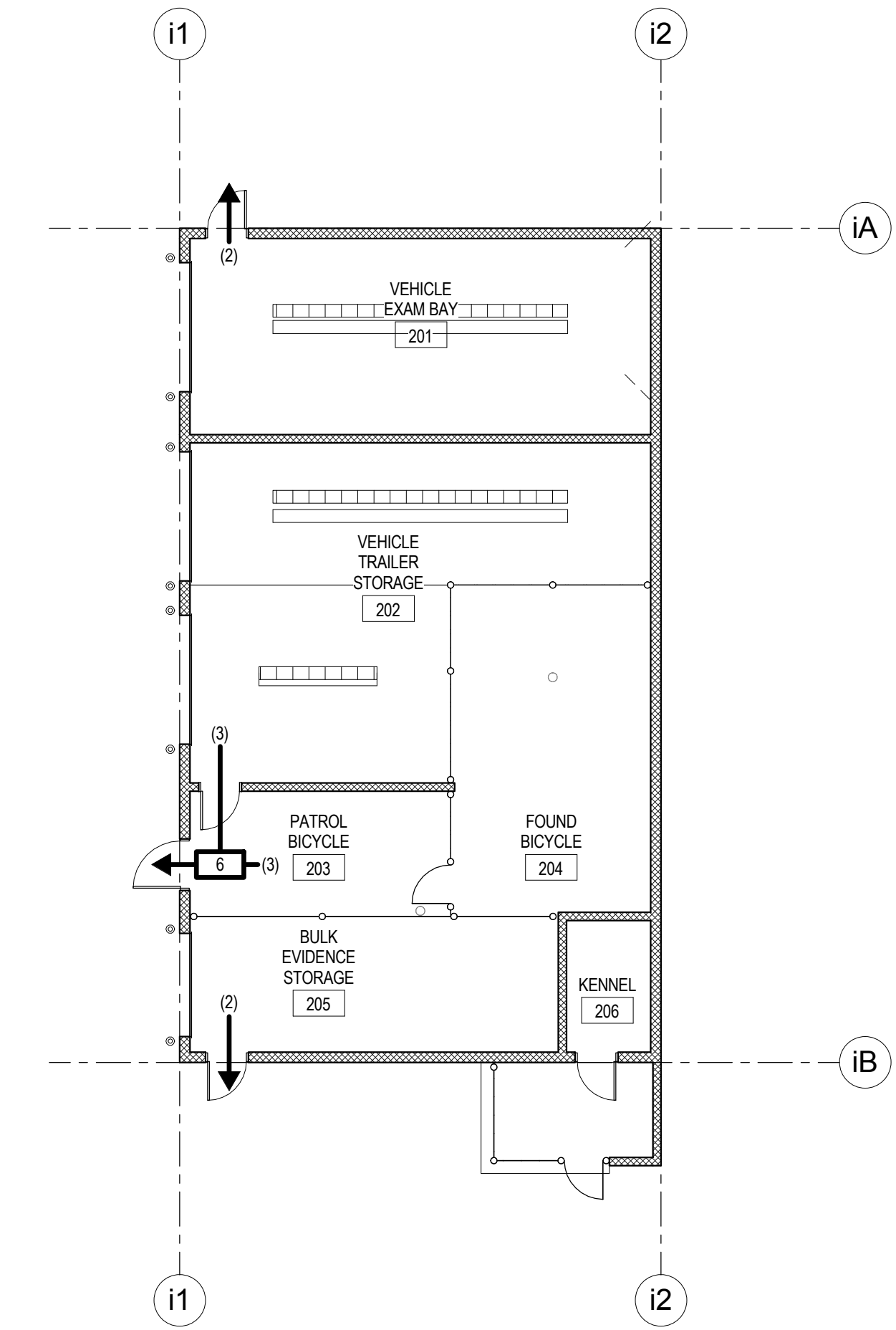
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BID DOCUMENTS  
JANUARY 21, 2014



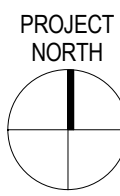
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CODE COMPLIANCE PLAN - ANCILLARY BUILDING  
SCALE 3/32" = 1'-0"

CODE COMPLIANCE PLAN - POLICE STATION  
SCALE 3/32" = 1'-0"



## CODE ANALYSIS

AVProject: Kaysville City Police Station  
Project Address: Kaysville City  
Municipality/Jurisdiction: Kaysville City  
Owner: Kaysville City

Applicable Codes: 2009 IBC  
2009 IECC  
2009 NEC  
2009 IPC  
2009 IMC

Construction Type (circle):

I-A I-B II-A II-B III-A III-B IV-A IV-B V-A V-B

Occupancy Group(s): B, A-3, I-3, S-2

Special Occupancies as per IBC Chapter 4 (list):

Mixed Use (circle): YES NO

Nonseparated Occupancies as per IBC 508.3.2 (circle): YES NO

Allowable Height and Area:

Allowable Height of Building as per IBC Table 503: FEET 55, STORIES 2

Allowable Area per Story as per IBC Table 503: 9,500 S.F.

Entire building is equipped with automatic fire suppression system (circle): YES NO

Area Modifications (IBC 508.1)

$A_a = (A_1 + (A_2 \times I_2)) + (A_3 \times I_3)$

If Frontage Increase as per IBC 506.2 = 0

If Automatic Fire Suppression System Increase as per IBC 506.3 = 2

$A_a = 28,500$  S.F.

Allowable Height of Building After Height Modifications: FEET 55, STORIES 2

Allowable Area per Story After Area Modifications: 28,500

Actual Height of Building: FEET 27, STORIES 1

Actual Area per Story: 19,800

Design Occupant Load

Design Occupant Load as per IBC Table 1004.1.1: 389

B: 147 Occupants

A-3: 224 Occupants

I-3: 8 Occupants

S-2: 4 Occupants

Total: 383 Occupants

Plumbing Fixtures (as per IBC Table 2902.1)

Required Water Closets (occupants ÷ value): Male 4, Female 5

Actual Water Closets: Male 6, Female 5

Required Lavatories (occupants ÷ value): Male 4, Female 4

Actual Lavatories: Male 5, Female 5

Required Drinking Fountains (occupants ÷ value): 2

Actual Drinking Fountains: 2

## LEGEND:

|  |                         |
|--|-------------------------|
|  | A-3 OCCUPANCY: 1,929 SF |
|  | B OCCUPANCY: 16,583 SF  |
|  | I-3 OCCUPANCY: 534 SF   |
|  | S-2 OCCUPANCY: 822 SF   |

## KAYSVILLE CITY POLICE STATION

KAYSVILLE, UTAH



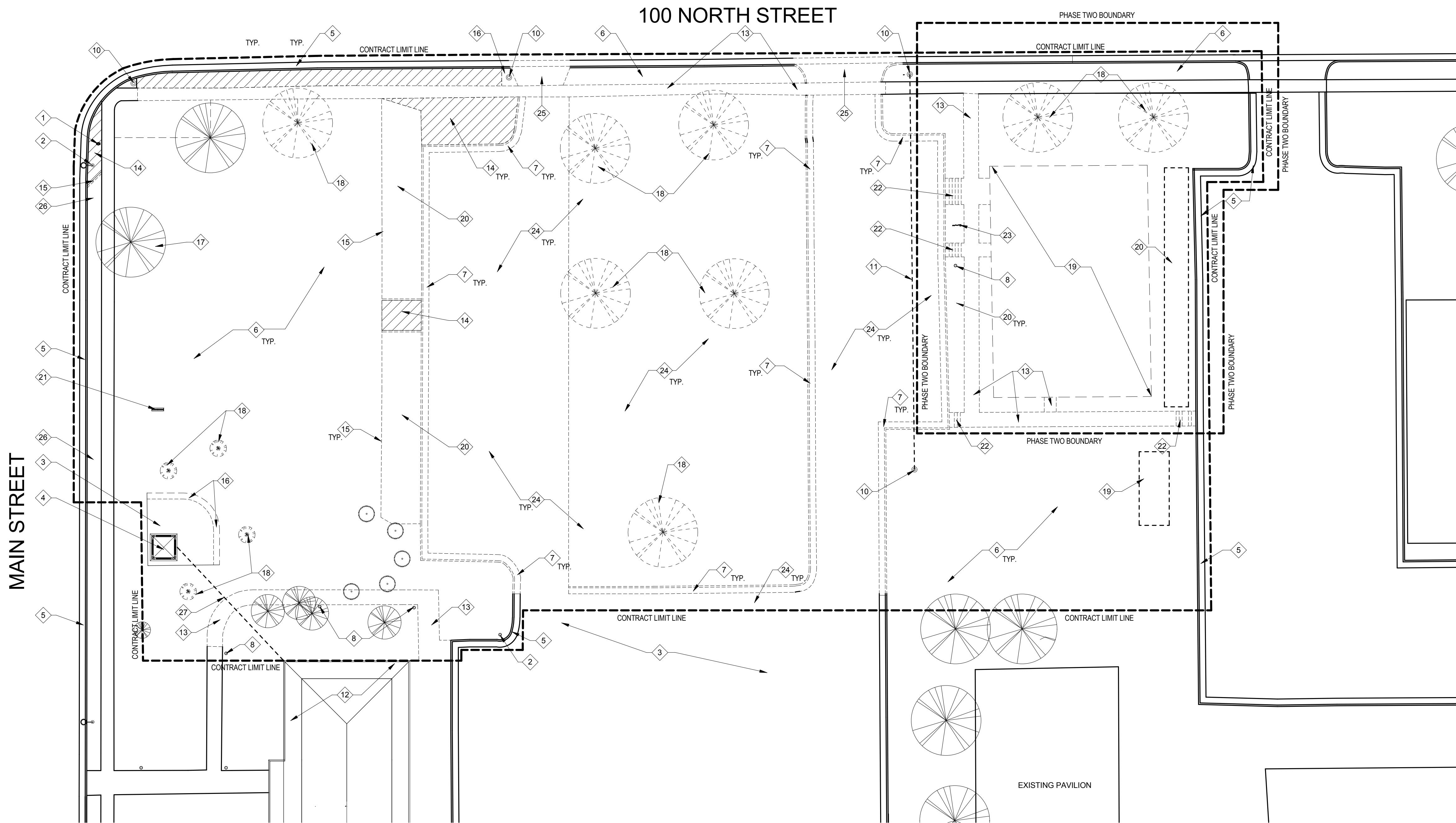
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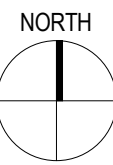
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COMPLIANCE  
PLAN

GI111





A1 SITE PLAN - DEMOLITION  
DS101 SCALE 1" = 20'-0"



#### GENERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE DOCUMENTED PRIOR TO COMMENCING DEMOLITION.
2. REFER TO MECHANICAL, ELECTRICAL, AND/OR PLUMBING DRAWINGS WHEN DEMOLITION REQUIRES REMOVAL OR TERMINATION OF SUCH UTILITIES.

#### KEY NOTES:

1. EXISTING FIRE HYDRANT TO REMAIN
2. EXISTING LIGHT POLE TO REMAIN
3. EXISTING PAVEMENT TO REMAIN; PROTECT DURING CONSTRUCTION
4. EXISTING CLOCK TOWER TO REMAIN; PROTECT DURING CONSTRUCTION
5. EXISTING CURB & GUTTER TO REMAIN; PROTECT DURING CONSTRUCTION
6. EXISTING LANDSCAPING TO BE REMOVED
7. EXISTING CURB & GUTTER TO BE REMOVED
8. EXISTING LIGHT POLE TO BE REMOVED AND SALVAGED
9. CONCRETE PAVING; SEE CIVIL DRAWINGS
10. EXISTING POWER POLE TO REMAIN
11. EXISTING OVERHEAD POWER LINES TO REMAIN
12. EXISTING BUILDING TO REMAIN
13. EXISTING CONCRETE WALK TO BE REMOVED
14. EXISTING ROCK MULCH AND WEED BARRIER TO BE REMOVED
15. EXISTING CONCRETE EDGING TO BE REMOVED
16. EXISTING CONCRETE TO BE REMOVED
17. EXISTING TREE TO REMAIN; PROTECT DURING CONSTRUCTION
18. EXISTING TREE TO BE REMOVED
19. EXISTING BUILDING TO BE REMOVED
20. EXISTING PLANTS TO BE REMOVED
21. EXISTING SIGN TO BE REMOVED AND SALVAGED
22. EXISTING CONCRETE STEPS AND GUARD RAIL TO BE REMOVED
23. EXISTING FLAG POLE TO BE REMOVED AND SALVAGED
24. EXISTING PAVING AND BASE TO BE REMOVED
25. EXISTING CONCRETE DRIVE APPROACH TO BE REMOVED
26. EXISTING LANDSCAPING TO REMAIN; PROTECT AND MAINTAIN DURING CONSTRUCTION
27. EXISTING BURIED POWER LINE TO REMAIN; EMPLOY THE SERVICE OF A LOCATING COMPANY TO DETERMINE EXACT LOCATION PRIOR TO COMMENCEMENT OF WORK; PROTECT DURING CONSTRUCTION.

#### KAYSVILLE CITY POLICE STATION

KAYSVILLE, UTAH



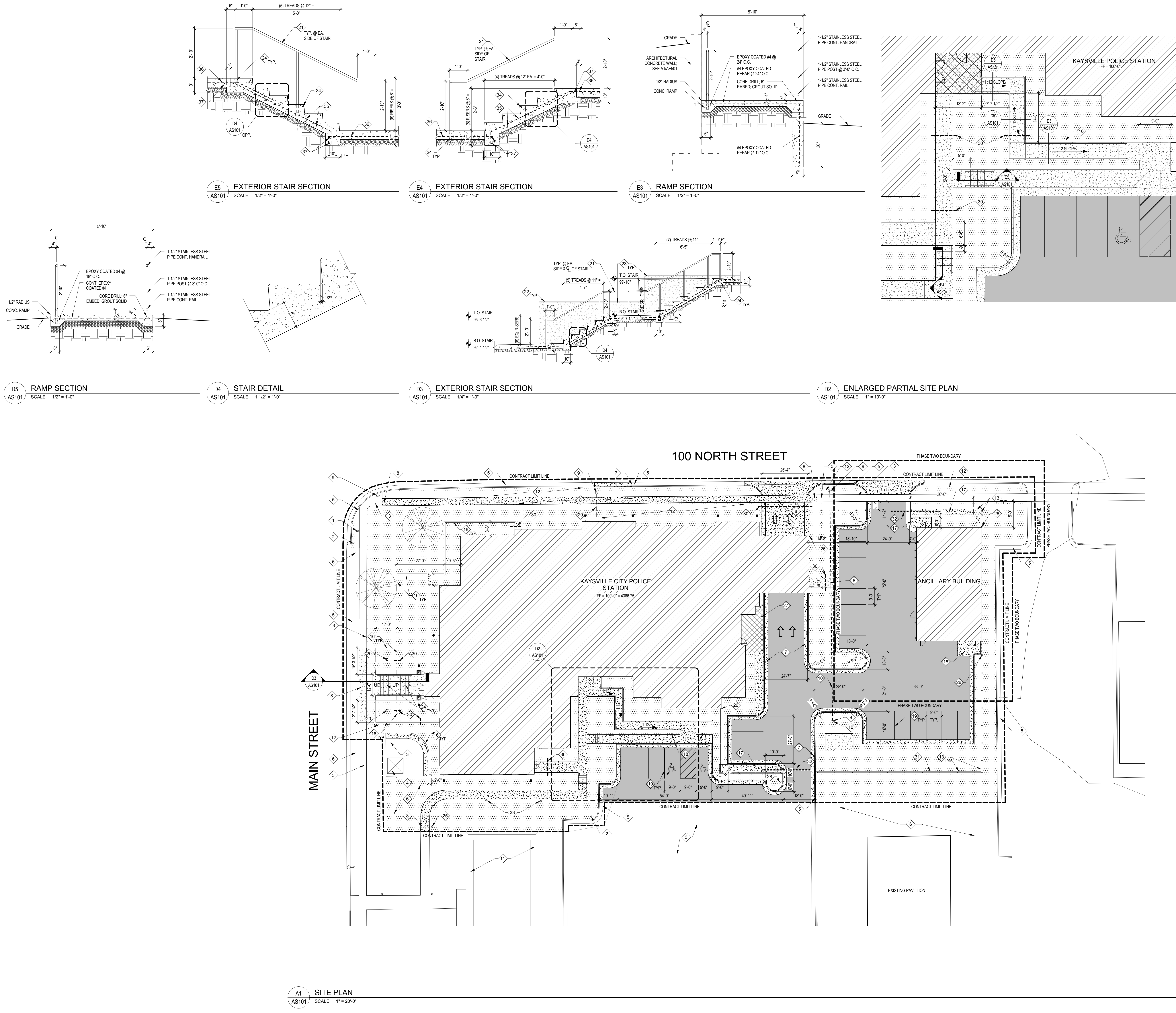
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| DATE/REVISION | PROJECT # |
|---------------|-----------|
| 12-03-2013    | 10002     |

SITE DEMOLITION PLAN

DS101





GENERAL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING LANDSCAPING AND SITE IMPROVEMENTS INDICATED TO REMAIN, WHICH ARE TO REMAIN FREE FROM DAMAGE DURING CONSTRUCTION BOTH INSIDE AND OUTSIDE THE CONTRACT LIMIT LINE. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED ITEM OR SITE IMPROVEMENTS AS SPECIFIED, OR IF NOT SPECIFIED, TO MATCH EXISTING ADJACENT CONSTRUCTION.
- CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UTILITIES AND SITE IMPROVEMENTS WHICH ARE AFFECTED BY, OR WHICH TIE-IN WITH NEW CONSTRUCTION.
- PROVIDE TEMPORARY 6'-0" (MIN.) HIGH CHAINLINK FENCE AT PROJECT LIMIT LINE, COMPLETE WITH GATES AS REQUIRED, UNLESS NOTED OTHERWISE.
- EXISTING ROAD, PARKING, SERVICE DRIVES, AND SIDEWALKS SHALL REMAIN ACCESSIBLE AND BE KEPT CLEAR OF CONSTRUCTION EQUIPMENT, MATERIALS, MUD, DIRT, AND OTHER DEBRIS.
- SEE CIVIL DRAWINGS FOR EXTENT OF SITE WORK.
- CONTRACT LIMIT LINE DOES NOT PERTAIN TO SITE UTILITIES.

KEY NOTES:

- EXISTING FIRE HYDRANT TO REMAIN
- EXISTING LIGHT POLE TO REMAIN
- EXISTING PAVEMENT TO REMAIN; PROTECT DURING CONSTRUCTION
- EXISTING CLOCK TOWER TO REMAIN; PROTECT DURING CONSTRUCTION
- EXISTING CURB & GUTTER TO REMAIN; PROTECT DURING CONSTRUCTION
- EXISTING LANDSCAPING TO REMAIN; PROTECT AND MAINTAIN DURING CONSTRUCTION
- CONCRETE CURBS & GUTTER, SEE CIVIL DRAWINGS
- CONCRETE PAVING, SEE CIVIL DRAWINGS
- EXISTING POWER POLE TO REMAIN
- EXISTING OVERHEAD POWER LINES TO REMAIN
- EXISTING BUILDING TO REMAIN
- LANDSCAPE AREA LANDSCAPING NIC
- 6'-0" HIGH DECORATIVE FENCE
- 6'-0" HIGH CANTILEVER SLIDE GATE, MATCH PROFILE OF DECORATIVE FENCE
- 4" THICK CONCRETE OVER 8" BASE, SLOPE AWAY FROM BUILDING AT 1/4" PER FT.
- ARCHITECTURAL CONCRETE RETAINING WALL, SEE A1/AE501, TYP. FOR ALL CONCRETE RETAINING WALLS
- 4" THICK CONCRETE PAVING OVER 8" BASE
- ADA PARKING SIGN, SEE E1/AE501
- PAVEMENT MARKINGS
- FLAG POLE, SEE E3/AE501
- 1-1/2" STAINLESS STEEL PIPE HANDRAIL
- 3/4" CHAMFER, ALL EXPOSED EDGES
- ARCHITECTURAL CONCRETE WALL
- CORE DRILL, EMBED 6" GROUT SOLID
- LIGHT POLE, SEE ELEC. DWGS.
- INSTALL FENCE POST 4' CLEAR FROM BUILDING
- LIGHT BOLLARDS, SEE ELECTRICAL DRAWINGS
- GATE ACCESS BOLLARD BY GATE MANUF.
- EXISTING GUY TO REMAIN, COORDINATE TEMPORARY REMOVAL AND SHORE OF EXISTING POLE TO FACILITATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANY
- 6" DIA. PVC SLEEVE 18" BELOW GRADE
- 12"x6" CONCRETE MON STRIP WITH CONTRACTION JOINTS @ 5'-0" O.C. LOCATION
- CANTILEVER GATE AND GATE OPERATOR
- EXISTING POLE LIGHT TO BE REMOVED AND REINSTALLED IN CURRENT LOCATION
- #4 EPOXY COATED REBAR, 1-1/2" CLEAR
- #4 EPOXY COATED REBAR, 18" O.C. EACH WAY
- #4 EPOXY COATED REBAR, 48" TOTAL LENGTH
- (2) #4 EPOXY COATED REBAR

LEGEND:

- LANDSCAPE AREA, NIC.
- CONCRETE PAVING, SEE CIVIL DRAWINGS
- ASPHALT SURFACE, SEE CIVIL DRAWINGS
- 4" CONCRETE PAVING W/ CONTROL JOINTS @ 3'-0" O.C., EACH WAY

KAYSVILLE CITY POLICE STATION

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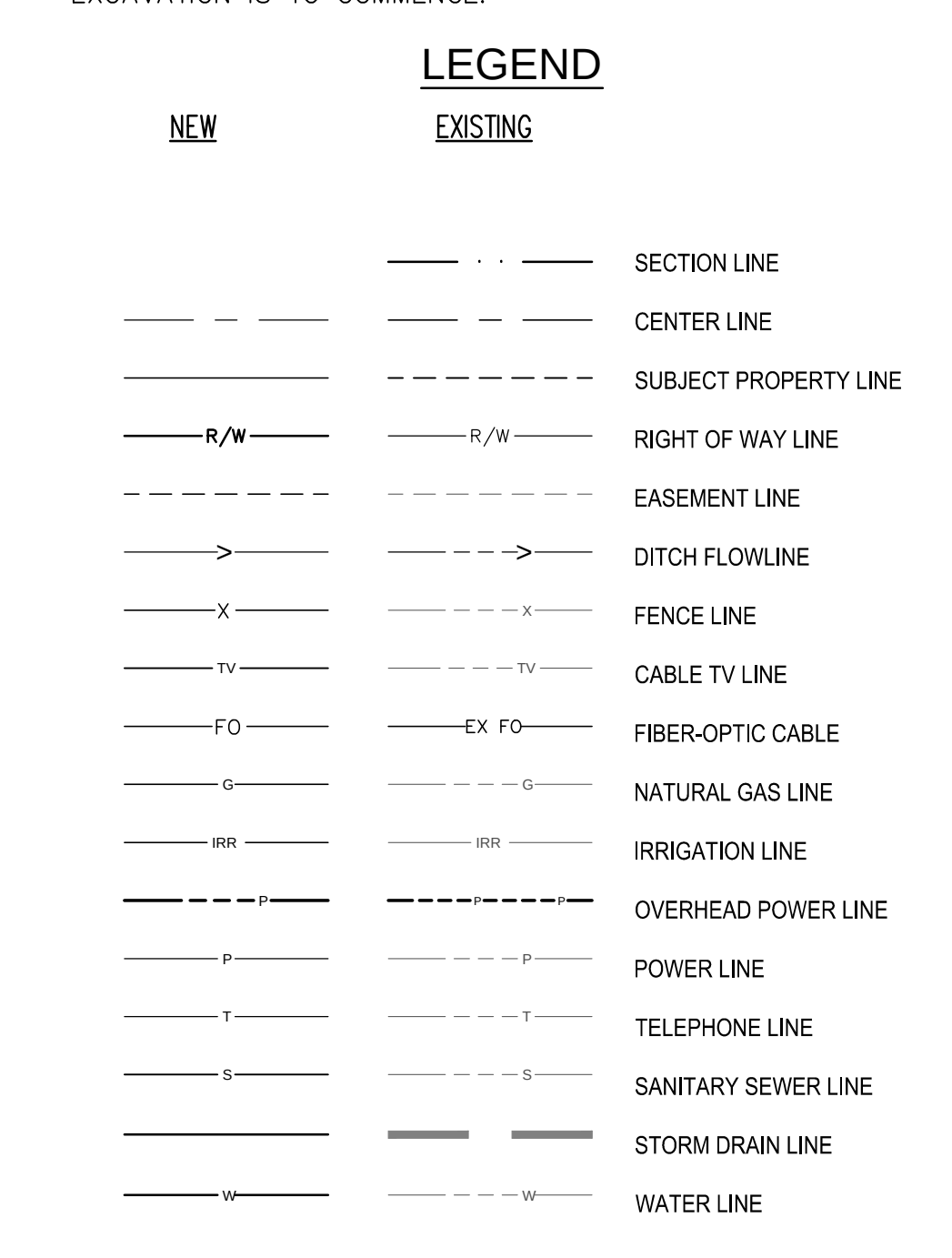
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DATE/REVISION PROJECT #  
12-03-2013 10002

ARCHITECTURAL  
SITE PLAN

AS101







GEORGE WILKINS  
Professional Engineer  
No. 152806  
17 JAN 2014  
STATE OF UTAH

No.

Date

By

Revision

BUSH & GUDGELL, INC.

Engineers - Planners - Surveyors

655 East 4500 South, Suite 100  
Salt Lake City, Utah 84107  
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DATE: JULY 2013  
DRAWN: GMB  
APPROVED: GMB  
SCALE: 1" = 20'  
JOB NO. 132053

KAYSVILLE POLICE DEPARTMENT

GRADING PLAN

PREPARED FOR: JRCA ARCHITECTS

LOCATION: 100 NORTH MAIN STREET, KAYSVILLE, UTAH

SHEET C2 OF 5

5 SHEETS

FILE: 132053 BASE.DWG

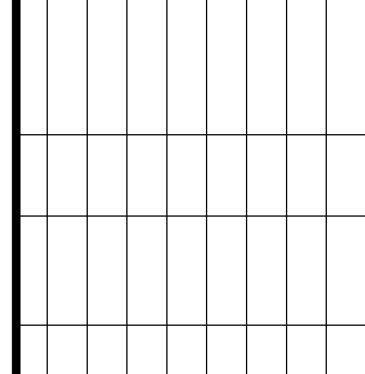
The figure consists of a large main site plan at the top and three smaller enlarged grading plans below it. The main site plan shows the layout of the Kaysville City Police Station (FFE = 4366.75) and an Ancillary Building (FFE = 4368.50) situated between 100 North Street and Main Street. It includes numerous elevation points (e.g., F 4366.75, TBC 4367.67), property lines, and utility lines. Annotations specify construction details like removing existing curbs and gutters, installing new Kaysville standard curbs, and installing 27/1/2" ABT polydrain trench drain systems. A north arrow and a graphic scale (1 inch = 20 feet) are located in the upper right. A note states that utility and topographic survey information is included on the plat, and the owner, Bush and Gudgell, accepts no liability for the accuracy of information provided by others. General notes 1 through 6 provide further specifications for the contractor regarding soil conditions, fill materials, and pavement structure.

The three enlarged grading plans are detailed views of specific areas:

- MAIN STREET ENTRANCE ENLARGED GRADING PLAN (1 inch = 10 feet):** Shows the entrance area with elevations ranging from 4358.92 to 4366.25. It includes a match to the existing sidewalk elevation and shows the proposed curb and gutter.
- SOUTH HC ACCESSIBLE ENTRANCE ENLARGED GRADING PLAN (1 inch = 10 feet):** Shows the accessible entrance area with elevations ranging from 4361.37 to 4366.75. It includes a match to the existing curb and gutter and shows the proposed ramp and ADA accessible ramp.
- EAST ENTRANCE ENLARGED GRADING PLAN (1 inch = 10 feet):** Shows the east entrance area with elevations ranging from 4366.25 to 4367.34. It includes a match to the existing curb and gutter and shows the proposed ramp and ADA accessible ramp.

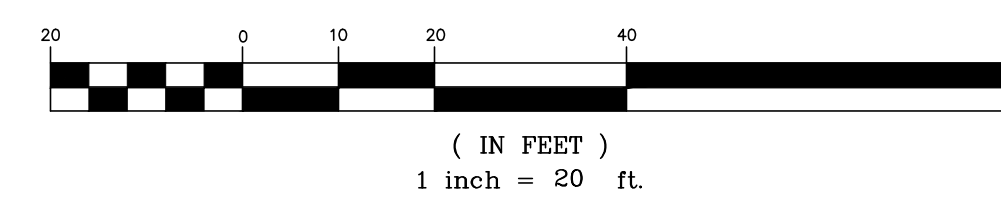
A legend on the left side of the main plan defines various line types: SECTION LINE, CENTER LINE, SUBJECT PROPERTY LINE, RIGHT OF WAY LINE, EASEMENT LINE, DITCH FLOWLINE, FENCE LINE, CABLE TV LINE, FIBER-OPTIC CABLE, NATURAL GAS LINE, IRRIGATION LINE, OVERHEAD POWER LINE, POWER LINE, TELEPHONE LINE, SANITARY SEWER LINE, STORM DRAIN LINE, WATER LINE, and CONTOUR LINE. It also defines TBC (Top Back of Curb) and F (Finish Surface) elevations.





KAYSVILLE POLICE DEPARTMENT  
STORM WATER POLLUTION PREVENTION PLAN  
PREPARED FOR: JRCA ARCHITECTS  
LOCATION: 100 NORTH MAIN STREET, KAYSVILLE, UTAH

SHEET **C3** OF **5** SHEETS  
FILE:132053 BASE.DWG



UPDES INFORMATION:

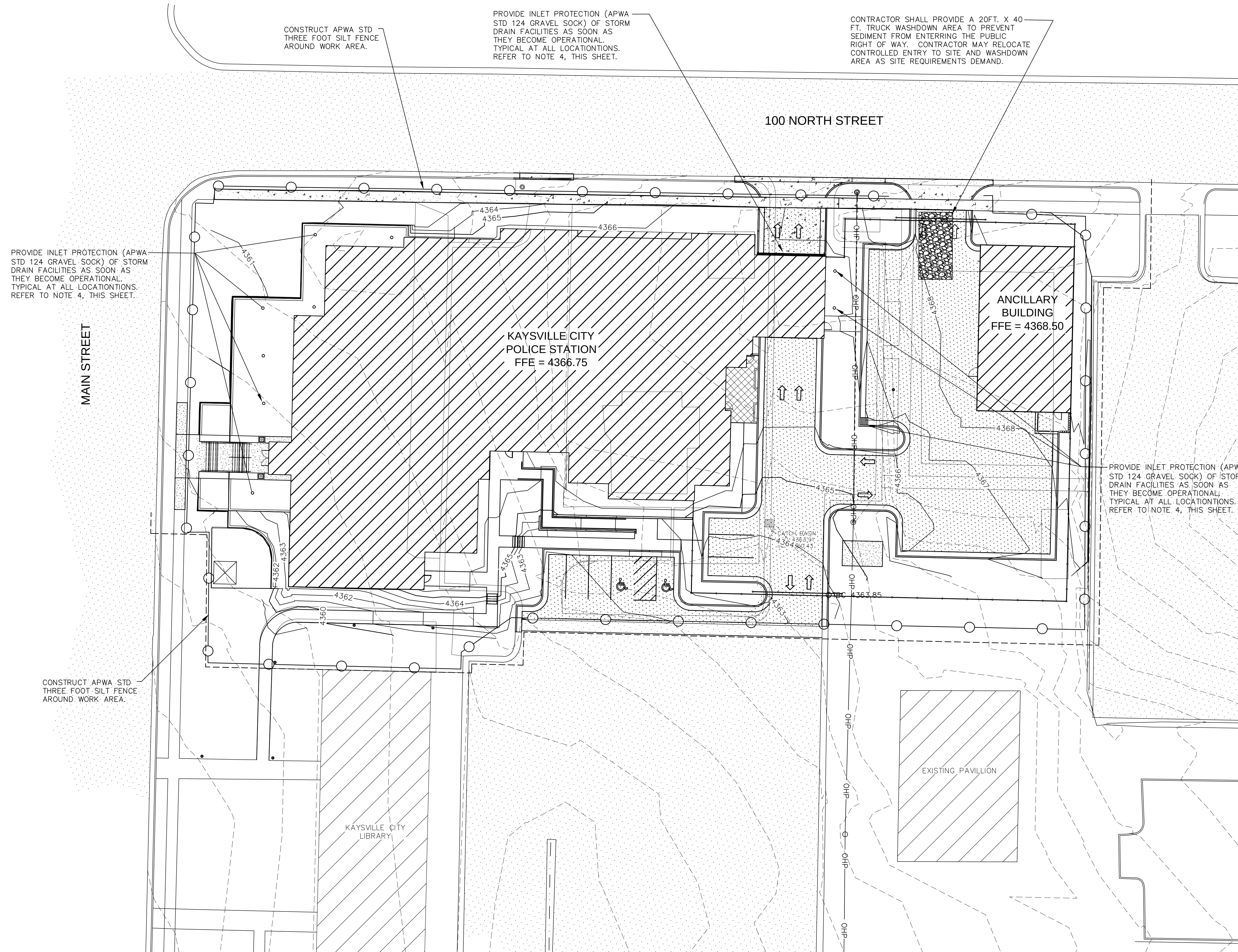
1. DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY: THIS CONSTRUCTION WILL CONSIST OF INSTALLATION OF UTILITIES, AND GRADING FOR THE DEVELOPMENT OF A NEW MUNICIPAL BUILDING LOCATED ON 1.64 ACRES OF LAND AT 100 NORTH MAIN STREET IN KAYSVILLE CITY.
2. DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH DISTURB SOILS FOR MAJOR PORTIONS OF THE SITE, THE SEQUENCE OF ACTIVITIES AND BEST MANAGEMENT PRACTICE TO BE EMPLOYED DURING THAT ACTIVITY WILL BE:
  - A. DEMOLITION & GRUBBING OF SITE (BMP: STABILIZED CONSTRUCTION ENTRANCE & WASH AREA; SILT FENCE)
  - B. EXCAVATION (BMP: STABILIZED CONSTRUCTION ENTRANCE & WASH AREA; SILT FENCE)
  - C. GRADING (BMP: STABILIZED CONSTRUCTION ENTRANCE & WASH AREA; SILT FENCE)
  - D. INSTALLATION OF UTILITIES (BMP: STABILIZED CONSTRUCTION ENTRANCE & WASH AREA; SILT FENCE; STORM DRAIN INLET PROTECTION)
  - E. INSTALLATION OF ROADWAY IMPROVEMENTS (BMP: STABILIZED CONSTRUCTION ENTRANCE & WASH AREA; SILT FENCE; STORM DRAIN INLET PROTECTION)
3. ESTIMATE OF THE TOTAL AREA OF THE SITE AND THE TOTAL AREA OF THE SITE THAT IS EXPECTED TO BE DISTURBED BY EXCAVATION, GRADING, OR OTHER ACTIVITIES:

TOTAL AREA = 1.08 ACRES  
AREA OF SITE TO BE DISTURBED = 1.64 ACRES
4. ESTIMATE OF RUNOFF COEFFICIENT OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, AND THE EXISTING DATA DESCRIBING THE SOIL.

THE SITE WILL BE DEVELOPED REPLACING EXISTING ASPHALT AREA AND BUILDING AREA WITH NEW ASPHALT PARKING AREA AND BUILDING AREA. THE ESTIMATED RUNOFF COEFFICIENT = 1.0. THE SITE WILL REMAIN THE SAME AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE.

GENERAL EROSION CONTROL NOTES:

1. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL FACILITIES SHOWN.
2. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED UPON INSPECTION OF PROPOSED FACILITIES.
3. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STREETS CLEAN AND FREE FROM DEBRIS FROM TRAFFIC FROM THE SITE.
4. ALL STORM DRAIN FACILITIES ON SITE AND ADJACENT TO THE SITE NEED TO BE PROTECTED FROM SITE RUNOFF. INLET PROTECTION DEVICES SHALL BE INSTALLED IMMEDIATELY UPON INDIVIDUAL INLETS BECOMING FUNCTIONAL.
5. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PAVED, SEEDED WITH NATIVE VEGETATION, OR LANDSCAPED. REFER TO LANDSCAPE PLANS FOR SEED MIX AND PLANTING SPECIFICATIONS.
6. EROSION CONTROL STRUCTURES BELOW SODDED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING ARE IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. EROSION CONTROL IN PROPOSED PAVEMENT AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.
7. CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES WILL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY AND REMOVED WHEN THE SITE IS PAVED.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, ETC.) SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT WITH STORM WATER DISCHARGES FROM THE SITE.
9. BLOWING DUST MUST BE SEVERELY CONTROLLED AT ALL TIMES. INSTALLATION OF A SILT SCREEN AND SITE WATERING SHALL BE USED TO CONTROL DUST. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS ABSOLUTELY PROHIBITED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT.
11. ALL OFF-SITE CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
12. ALL MEASURES CONTAINED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT. ANY NEEDED CLEANING AND REPAIRS NEED TO BE DONE IMMEDIATELY UPON DISCOVERY. ALL UTILITY LINES SHALL BE CLEANED OF DIRT AND DEBRIS PRIOR TO BEING PUT INTO SERVICE DOWN-GRADE LINES MUST BE PROTECTED FROM HIGH-WATER DURING THE CLEANING TO AVOID CONTAMINATION AND COMPROMISING OUTFALL CLEANLINESS.

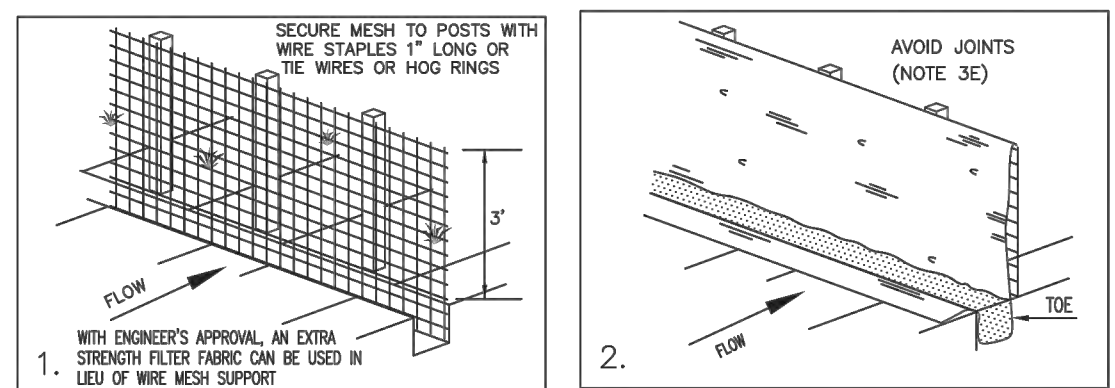




- Silt fence**
- DESCRIPTION: A temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts and entrenched.
  - APPLICATION: To intercept sediment from disturbed areas of limited extent.
    - Perimeter Control: Place barrier at down gradient limits of disturbance.
    - Sediment Barrier: Place barrier at toe of slope or soil stockpile.
    - Protection of Existing Waterways: Place barrier at top of stream bank.
    - Inlet Protection.
  - INSTALLATION/APPLICATION CRITERIA: Refer to APWA Section 01 57 00.
    - Synthetic filter fabric shall be a pervious sheet of polypropylene, nylon, polyester, or polyethylene yarn. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of 6 months of expected usable construction life at a temperature range of 0 deg. F. to 120 deg. F.
    - Barlap shall be 10 ounces per square yard of fabric.
    - Posts for silt fences shall be either 2" x 4" diameter wood, or 1.33 pounds per linear foot steel with a minimum length of 5 feet. Steel posts shall have projections for fastening wire to them.
    - The fabric is cut on site to desired width, unrolled, and draped over the barrier. The fabric toe is secured with rocks or dirt. The fabric is secured to the mesh with twin, staples or similar devices.
    - When attaching two silt fences together, place the end post of the second fence inside the end post of the first fence. Rotate both posts at least 180 degrees on a clockwise direction to create a tight seal with the filter fabric. Drive both posts into the ground and bury the flap.
    - When used to control sediments from a steep slope, silt fences should be placed away from the toe of the slope for increased holding capacity.
  - MAINTENANCE:
    - Inspected immediately after each rainfall and at least daily during prolonged rainfall.
    - Should the fabric on a silt fence or filter barrier decompose or become ineffective before the end of the expected usable life and the barrier still be necessary, the fabric shall be replaced promptly.
    - Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.
    - Re-anchor fence as necessary to prevent shortcutting.
    - Inspect for runoff bypassing ends of barriers or undercutting barriers.

6

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



Silt fence

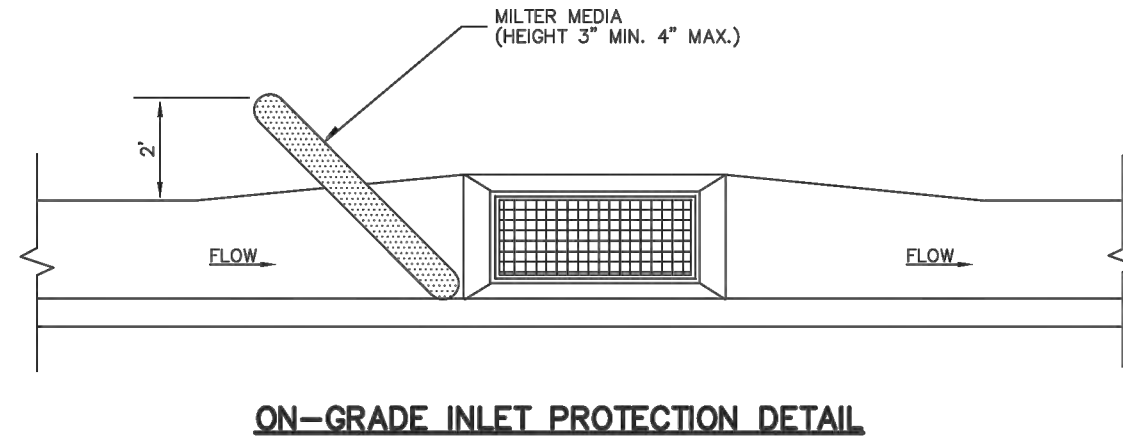
122

February 2006

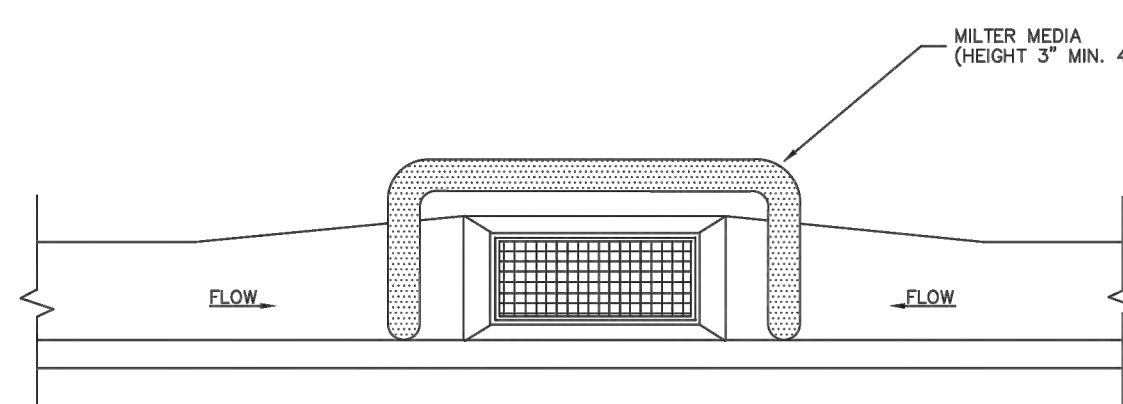
- Inlet protection - gravel sock**
- DESCRIPTION: Placement of gravel sock on grade upstream of, or in front of storm drain inlets to filter or pond water runoff.
  - APPLICATION: At inlets in paved or unpaved areas where up gradient area is to be disturbed by construction activities.
  - INSTALLATION/APPLICATION CRITERIA: Refer to APWA Section 01 57 00.
    - On-grade inlet protection should be used when completely blocking a storm drain inlet box would result in forcing water further downstream would cause flooding or other undesirable results.
    - Prepare filter media (gravel sock, straw waddle, or other approved media) in accordance with manufacturer's recommendations.
    - Install filter media just upstream of the inlet box.
    - Filter media shall butt tightly against the face of the curb and angle at approximately a 45 degree angle away from the curb to trap runoff between the media and the curb.
    - Excessive flows will flow either over or around the filter media and into the inlet box.
    - Expect ponding behind the filter media.
  - Drop inlet protection:
    - Drop inlet protection should be used at low points in the curb and when diverting flows further downstream will not cause undesirable results.
    - Prepare filter media (gravel sock, straw waddle, or other approved media) in accordance with manufacturer's recommendations.
    - Install filter media around the entire perimeter of the inlet grate.
    - Filter media shall butt tightly against the face of the curb on both sides of the inlet grate.
    - Excessive flows will either flow around the media or over the top and into the inlet box.
    - Expect ponding around the inlet box.
  - MAINTENANCE:
    - Inspect inlet protection after every large storm event and at a minimum of once monthly.
    - Remove sediment accumulated when it reaches 2 inches in depth.
    - Replace filter medium when damage has occurred or when medium is no longer functioning as intended.

10

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ON-GRADE INLET PROTECTION DETAIL



DROP INLET PROTECTION DETAIL

Inlet protection - gravel sock

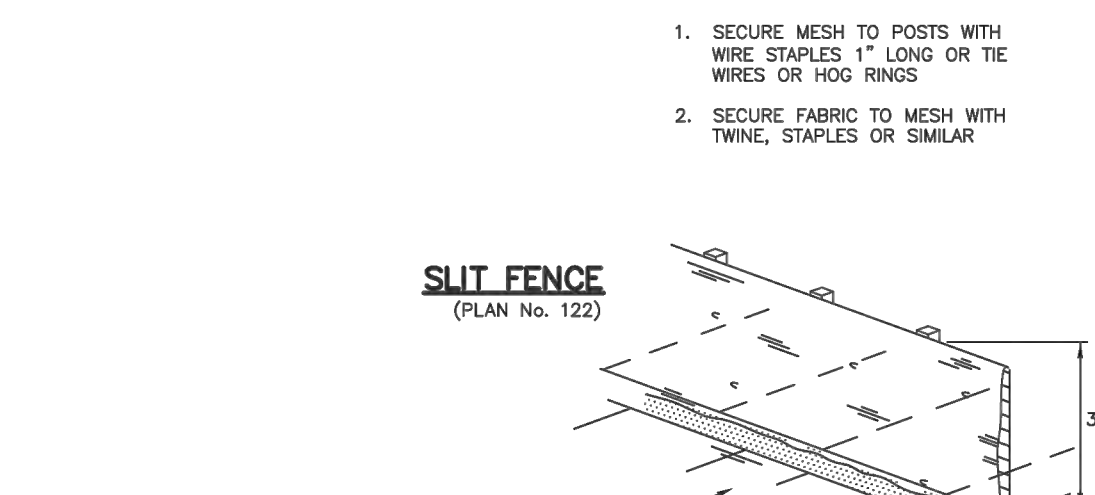
11

September 2006

- Equipment and vehicle wash down area**
- DESCRIPTION: A temporary stabilized pad of gravel for general washing of equipment and construction vehicles.
  - APPLICATION: At any site where regular washing of vehicles and equipment will occur. May also be used as a filling point for water trucks limiting erosion caused by overflow or spillage of water.
  - INSTALLATION/APPLICATION CRITERIA: Refer to APWA Section 01 57 00.
    - Clear and grub area and grade to provide maximum slope of 1 percent away from paved roadway.
    - Compact subgrade.
    - Place filter fabric under wash down area if desired (recommended for wash area that remains more than 3 months).
    - Install silt fence down gradient (see Plan No. 122).
  - MAINTENANCE:
    - Requires periodic top dressing with additional stones.
    - Solely used to control sediment in wash water. Cannot be utilized for washing equipment or vehicles that may cause contamination of runoff (such as fertilizer equipment or concrete equipment).
    - The wash area shall be maintained in a condition that will prevent tracking or flow of mud onto public rights-of-way.
    - Periodic top dressing with 2 inch stone may be required, as conditions demand, and repair any structures used to trap sediments.
    - Inspect daily for loss of gravel or sediment buildup.
    - Inspect adjacent area for sediment deposit and install additional controls as necessary.
    - Expand stabilized area as required to accommodate activities.
    - Maintain silt fence as outlined in Plan No. 122.

16

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.

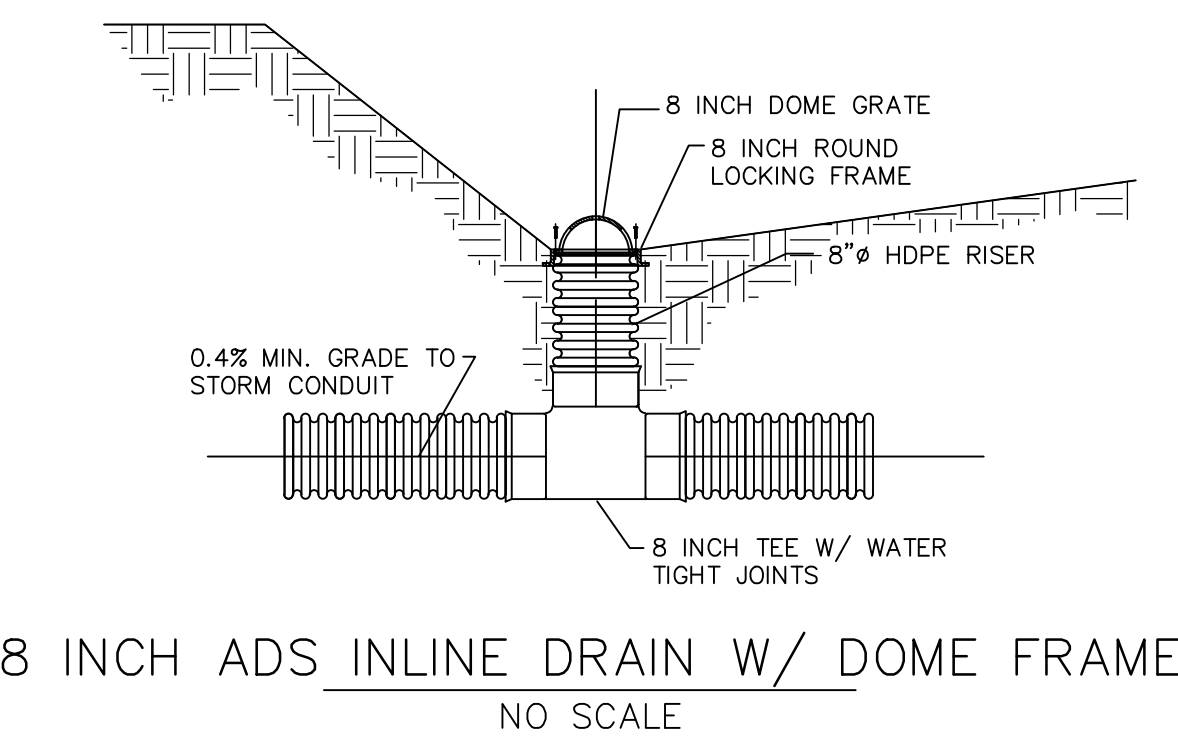


WASH DOWN AREA

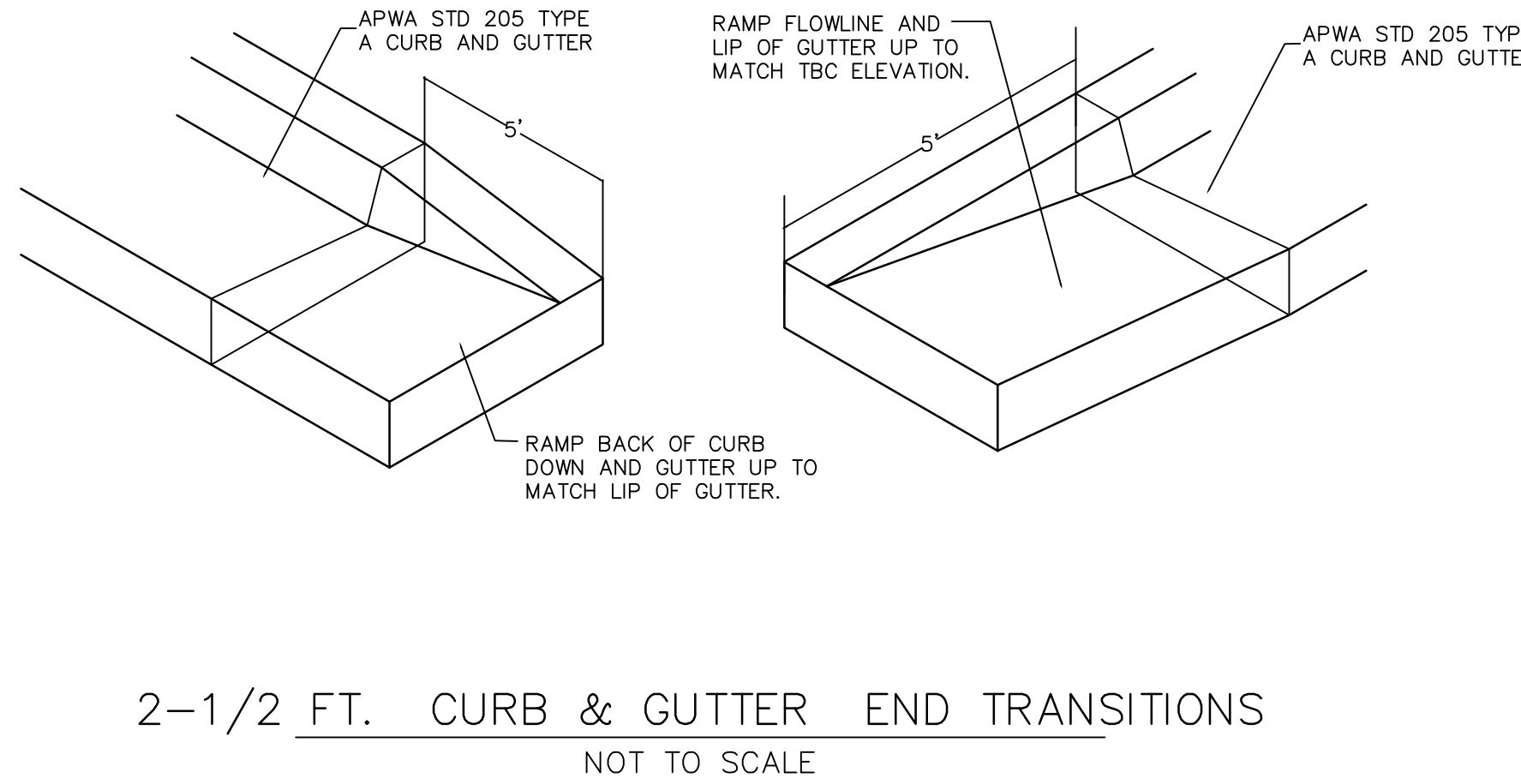
Equipment and vehicle wash down area

17

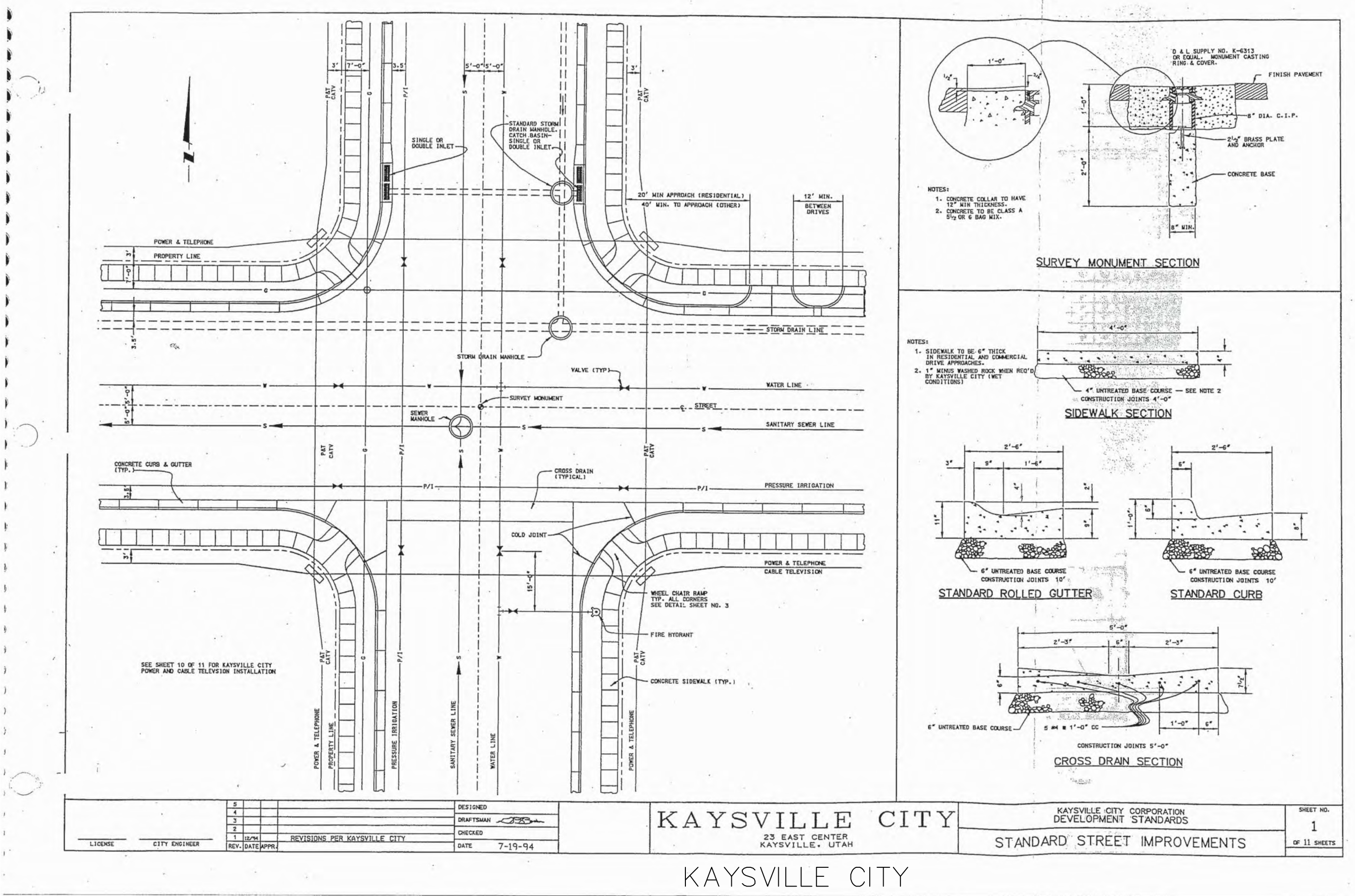
February 2006



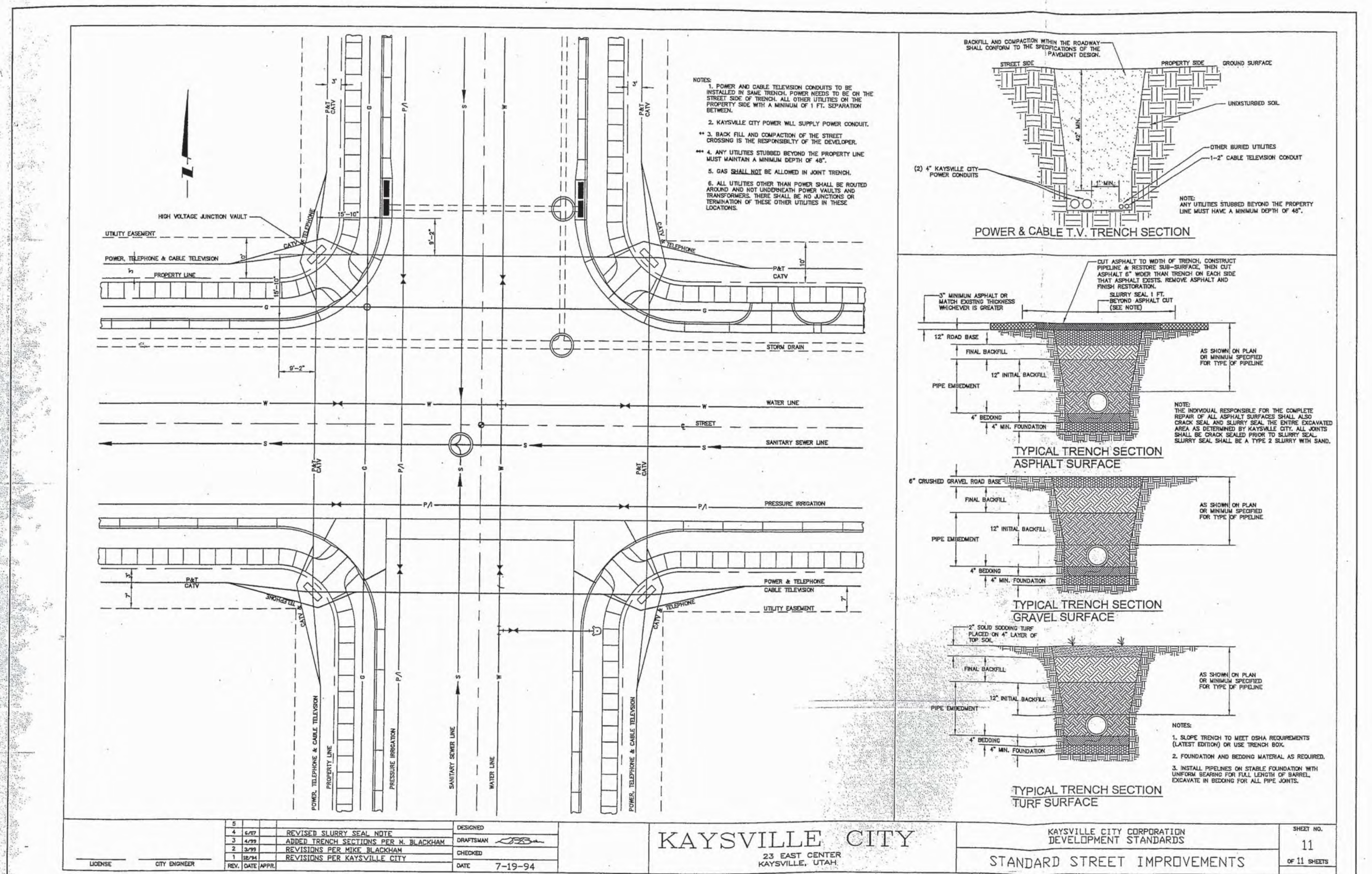
8 INCH ADS INLINE DRAIN W/ DOME FRAME  
NO SCALE



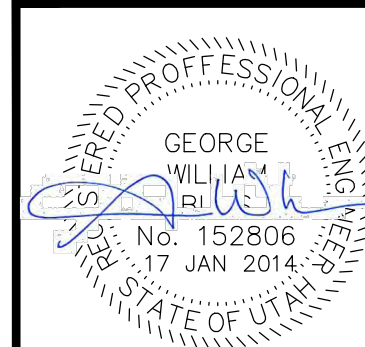
2-1/2 FT. CURB & GUTTER END TRANSITIONS  
NOT TO SCALE



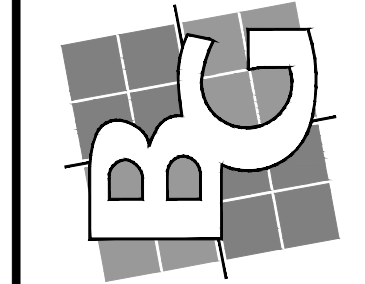
KAYSVILLE CITY  
STANDARD STREET IMPROVEMENTS



KAYSVILLE CITY  
STANDARD STREET IMPROVEMENTS



**BUSH & GUDGELL, INC.**  
Engineers - Planners - Surveyors  
655 East 4500 South, Suite 100  
Salt Lake City, Utah 84107  
Phone (801) 364-1212 / Fax (801) 364-1225  
www.bushandgudgell.com



DATE: JULY 2013  
DRAWN: GMB  
APPROVED: GMB  
SCALE: AS SHOWN  
JOB NO.: 132053

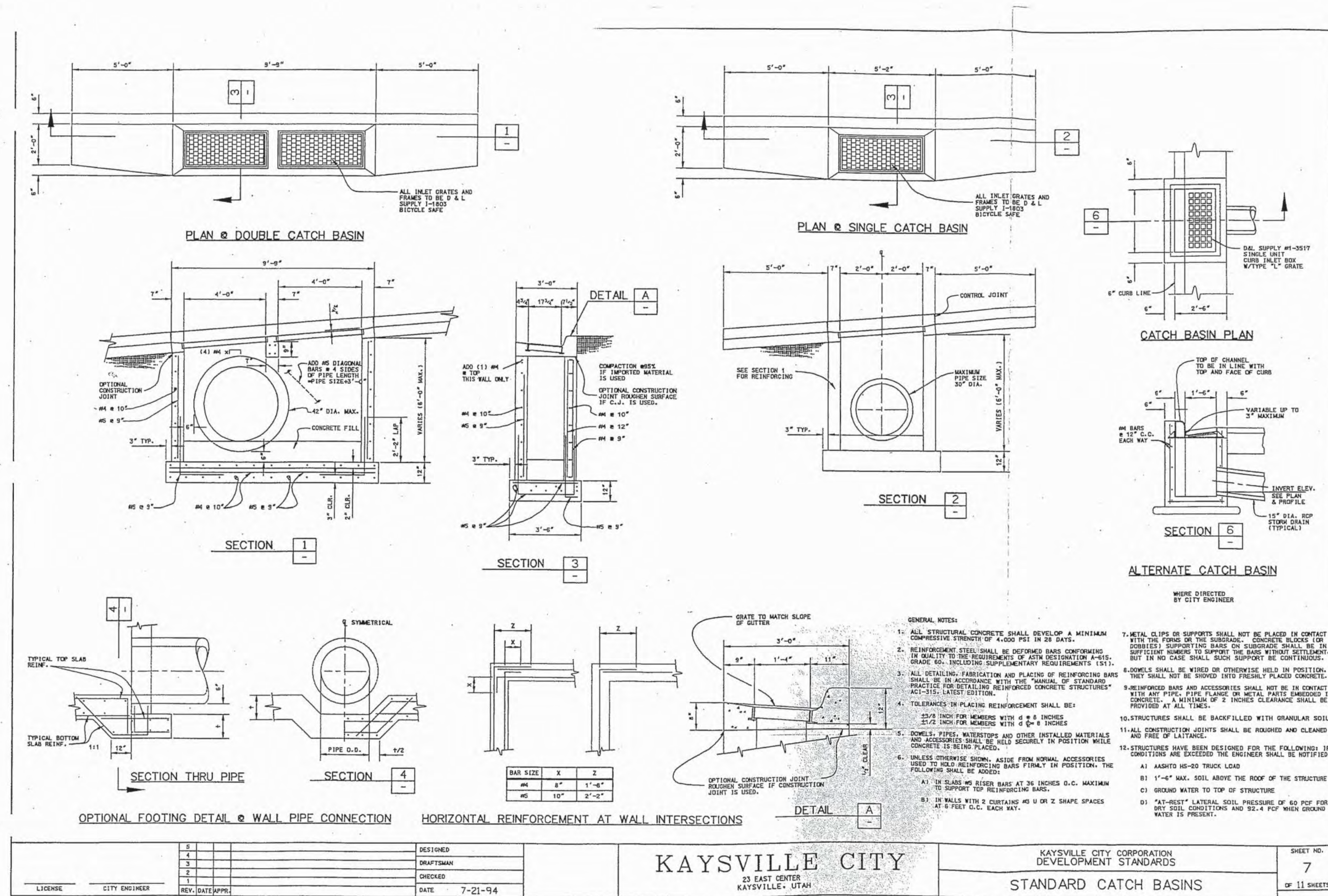
**KAYSVILLE POLICE DEPARTMENT**  
DETAIL SHEET  
PREPARED FOR: JRCA ARCHITECTS  
LOCATION: 100 NORTH MAIN STREET, KAYSVILLE, UTAH

SHEET C4 OF 5  
SHEETS  
FILE: 132053\_BASIS.DWG

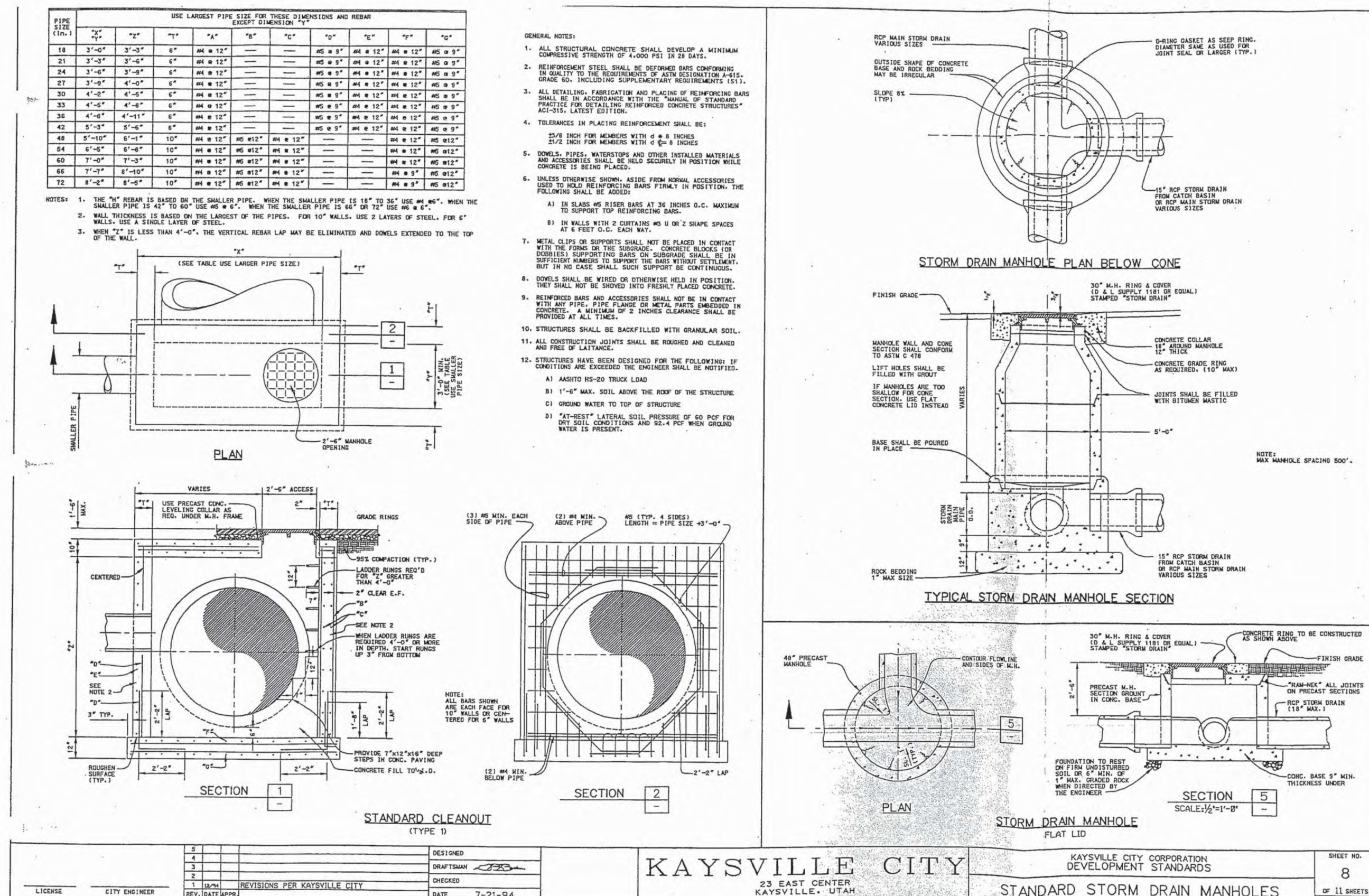


- Sewer lateral connection**
- INSPECTION:
    - Prior to installation, secure acceptance by ENGINEER for all pipe, fittings, and couplings to be used.
    - Prior to backfilling, secure inspection of installation by ENGINEER. Give at least 24 hours notice.
  - INSTALLATION:
    - Provide agency approved wye or tee with appropriate donut. Verify whether CONTRACTOR or agency is to install the wye.
    - Tape wrap pipe as required by soil conditions.
    - Remove core plug from sewer main. Do not break into sewer main to make connection.
    - Stainless steel straps required.
  - BACKFILL: Provide and place per APWA Section 33.05.20. Compact per APWA Section 31.23.26 to a modified proctor density of 95 percent or greater. Maximum lift thickness is 8 inches before compaction.

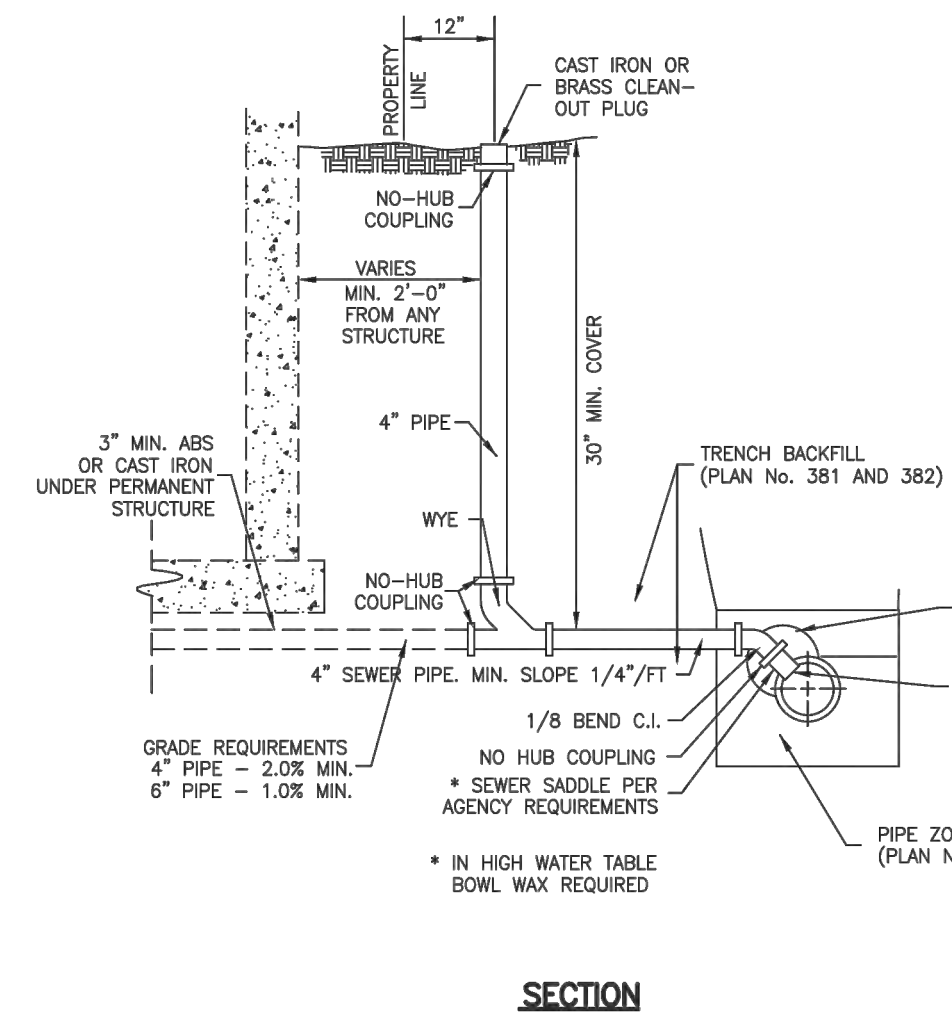
194



KAYSVILLE CITY  
STANDARD CATCH BASINS

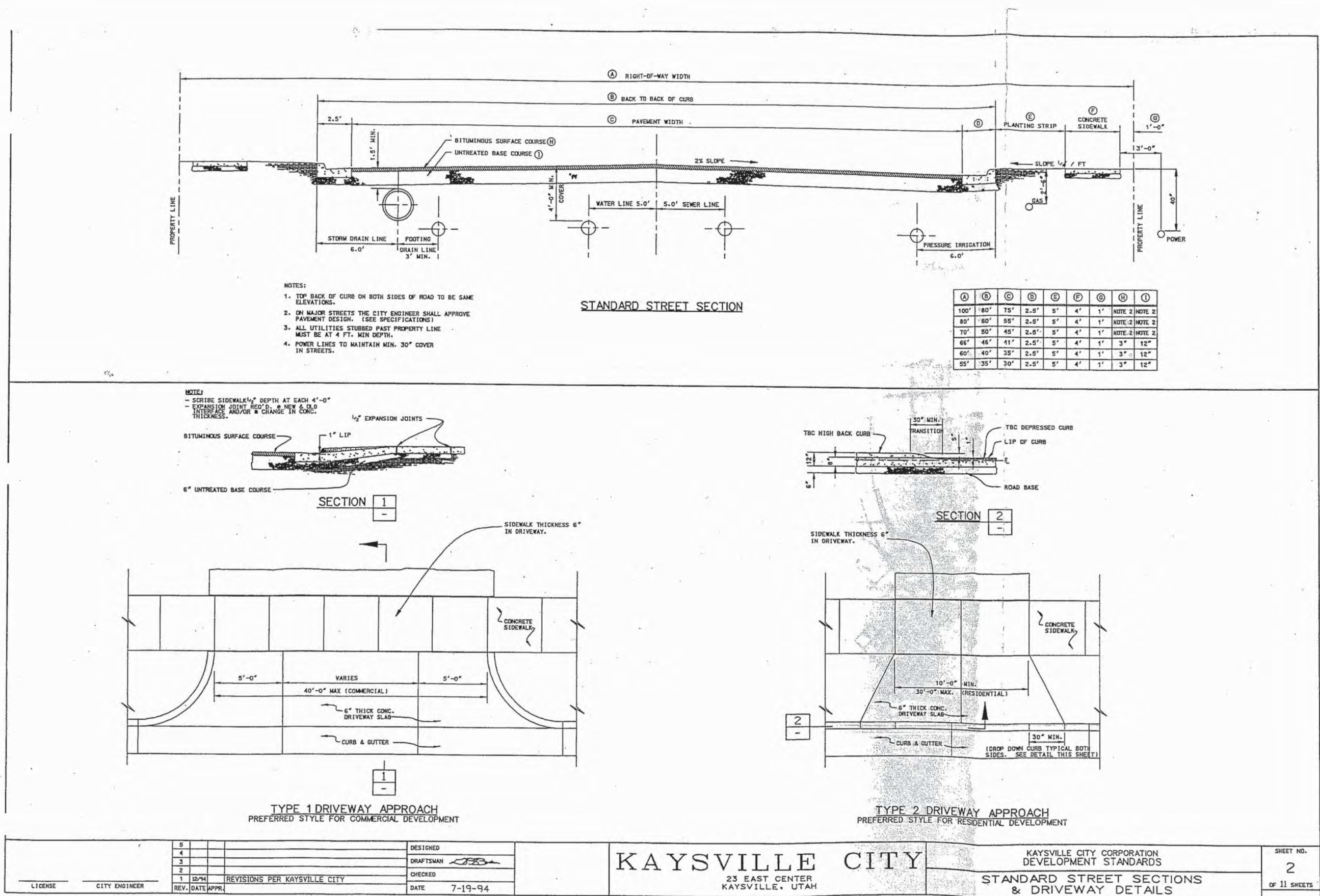


KAYSVILLE CITY  
STANDARD STORM DRAIN MANHOLES

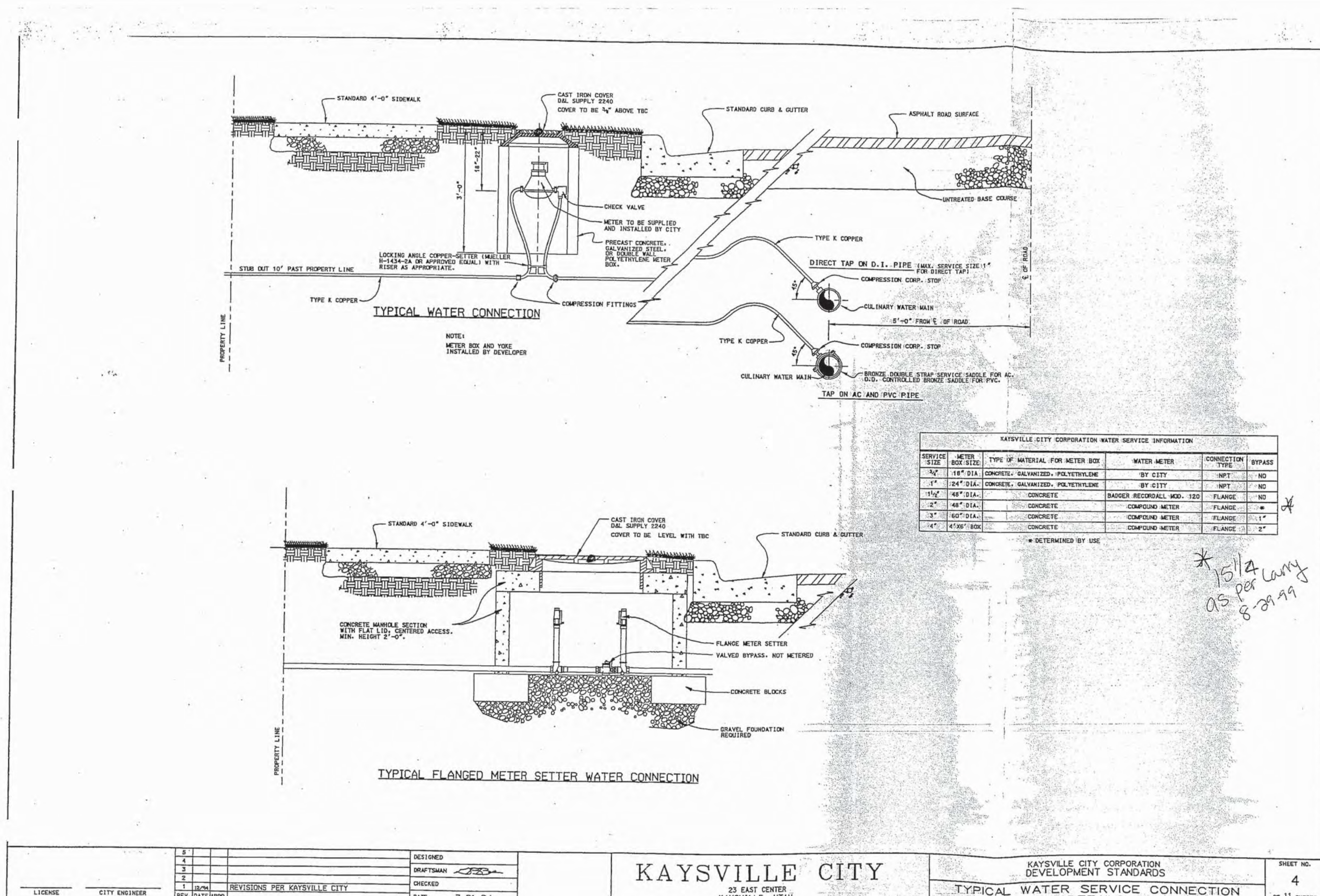


195

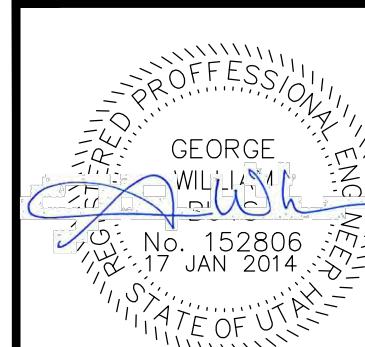
APWA STD 431  
SEWER LATERAL CONNECTION



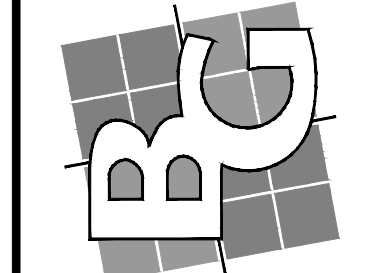
KAYSVILLE CITY  
STANDARD STREET SECTIONS  
& DRIVEWAY DETAILS



KAYSVILLE CITY  
TYPICAL WATER SERVICE  
CONNECTION DETAILS



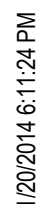
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DATE: JULY 2013  
DRAWN: GMB  
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SCALE: AS SHOWN  
JOB NO. 132053

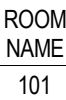
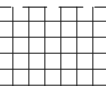
**KAYSVILLE POLICE DEPARTMENT**  
DETAIL SHEET  
PREPARED FOR: JRCA ARCHITECTS  
LOCATION: 100 NORTH MAIN STREET, KAYSVILLE, UTAH



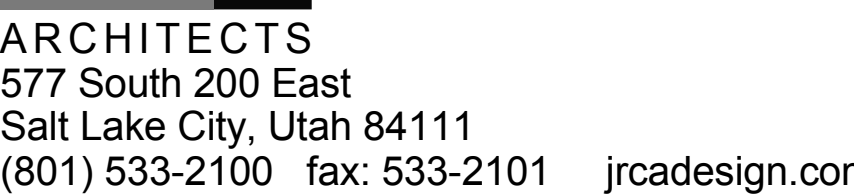


PROJECT  
NORTH

A circular diagram with a vertical line through the center, labeled 'PROJECT NORTH' at the top. The line extends from the top edge to the bottom edge of the circle.

- LEGEND:**
-  SOUND WALL, EXTEND WALL ASSEMBLY TO BOTTOM OF DECK ABOVE  
COMPLY WITH DETAILS E1(AE511, E2(AE511, E3511, & E4(AE511
-  DOOR TAG, SEE DOOR SCHEDULE, SHEET AE601.
-  ROOM TAG, SEE FINISH SCHEDULE.
-  WALL TYPE TAG, SEE SHEET AE511.
-  INDICATES EXTENT OF FLOOR FINISH TYPE F7
-  INDICATES EXTENT OF FLOOR FINISH TYPE F8

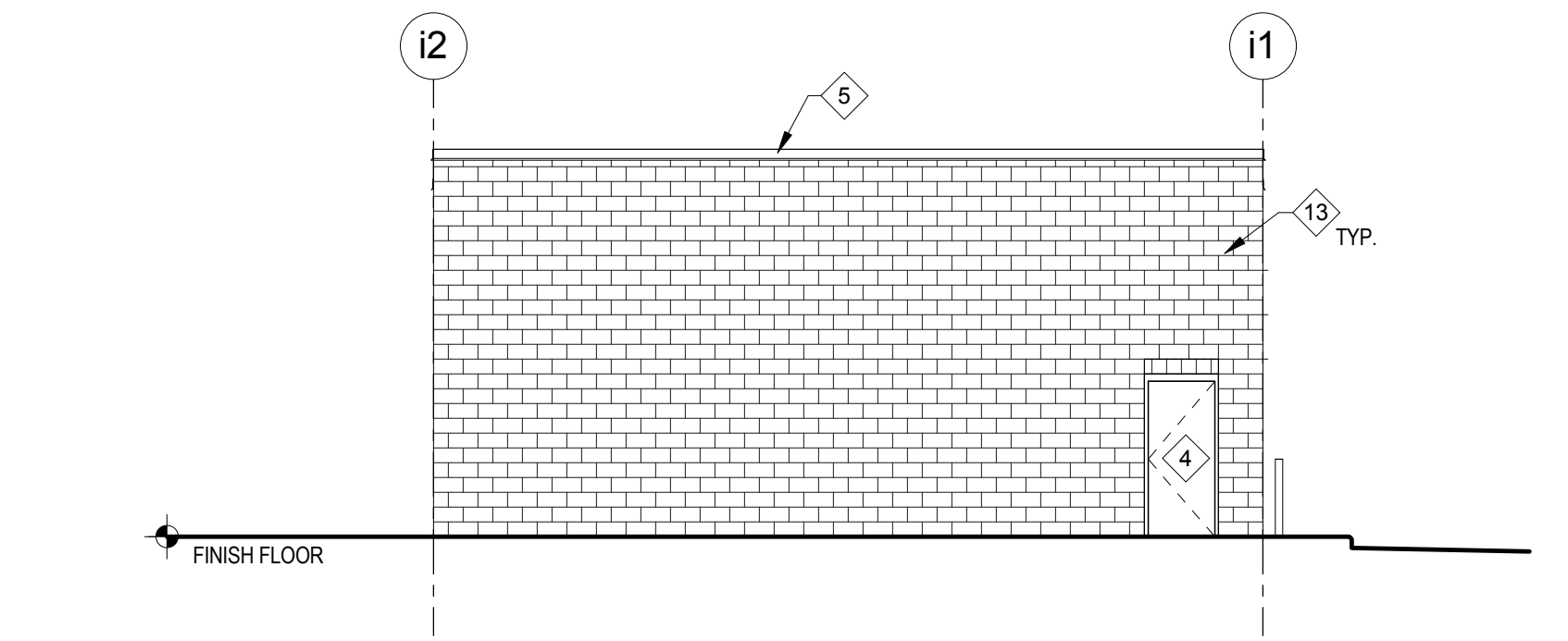
## KAYSVILLE, UTAH



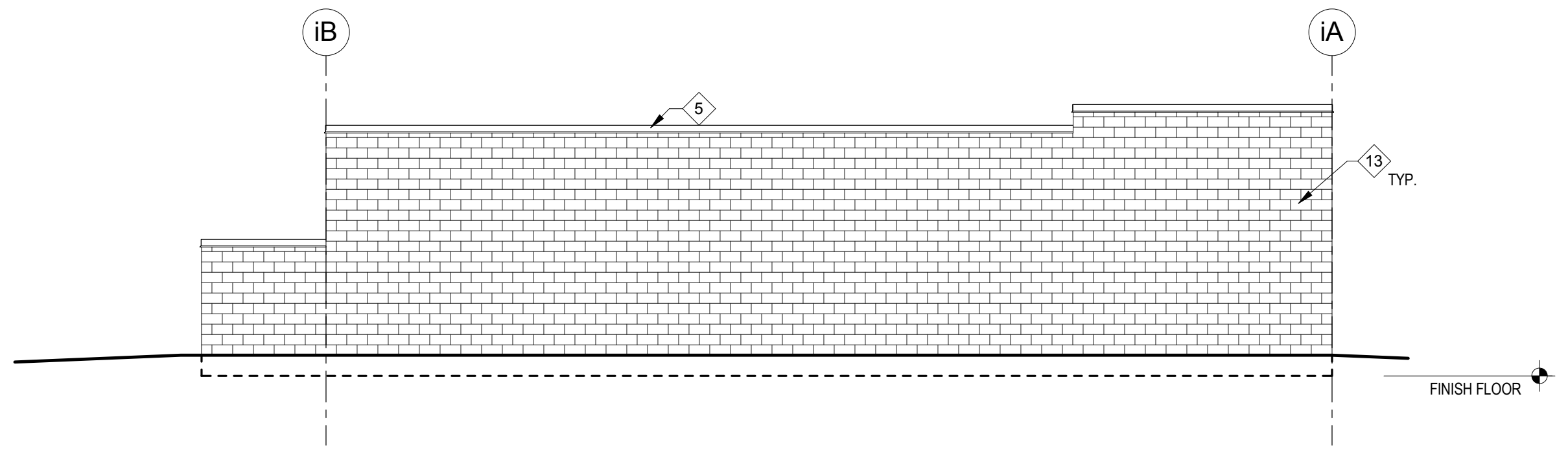
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| DATE/REVISION | PROJECT #. |
| 12-03-2013    | 10002      |

# AE101

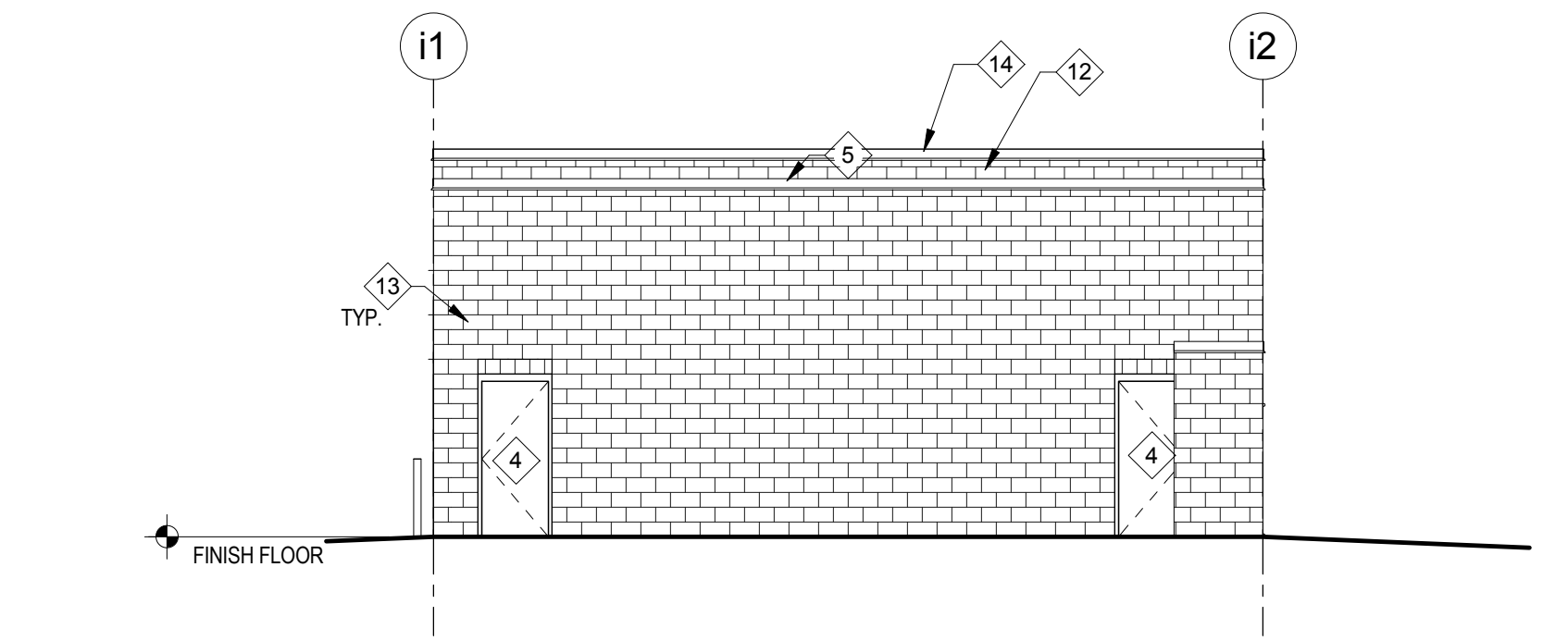




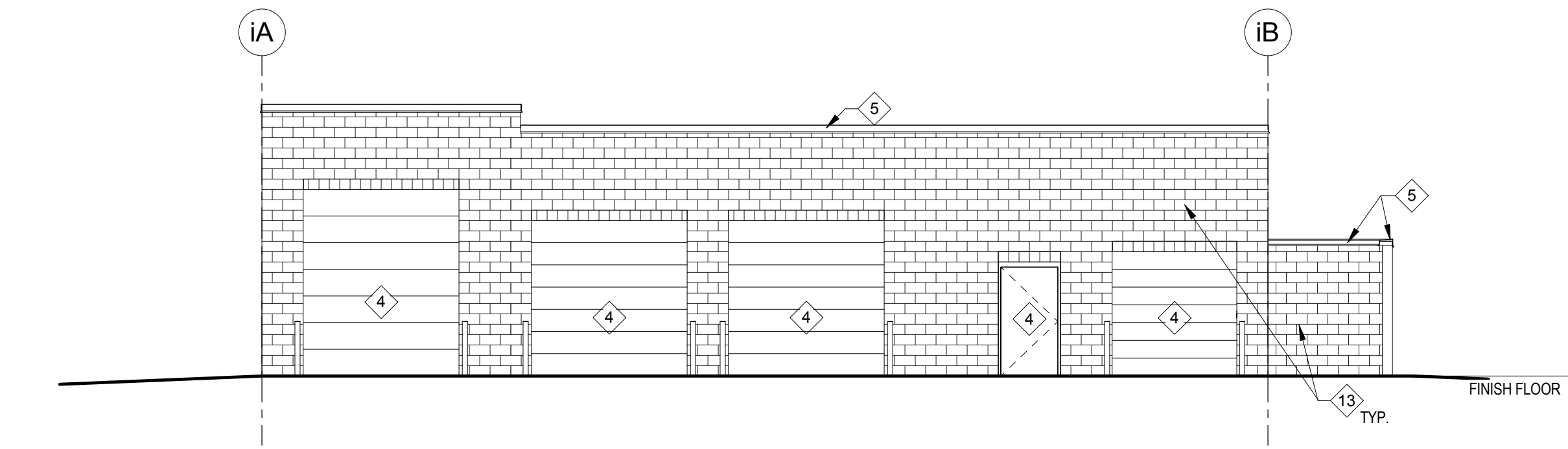
E2 NORTH ELEVATION  
AE102 SCALE 1/8" = 1'-0"



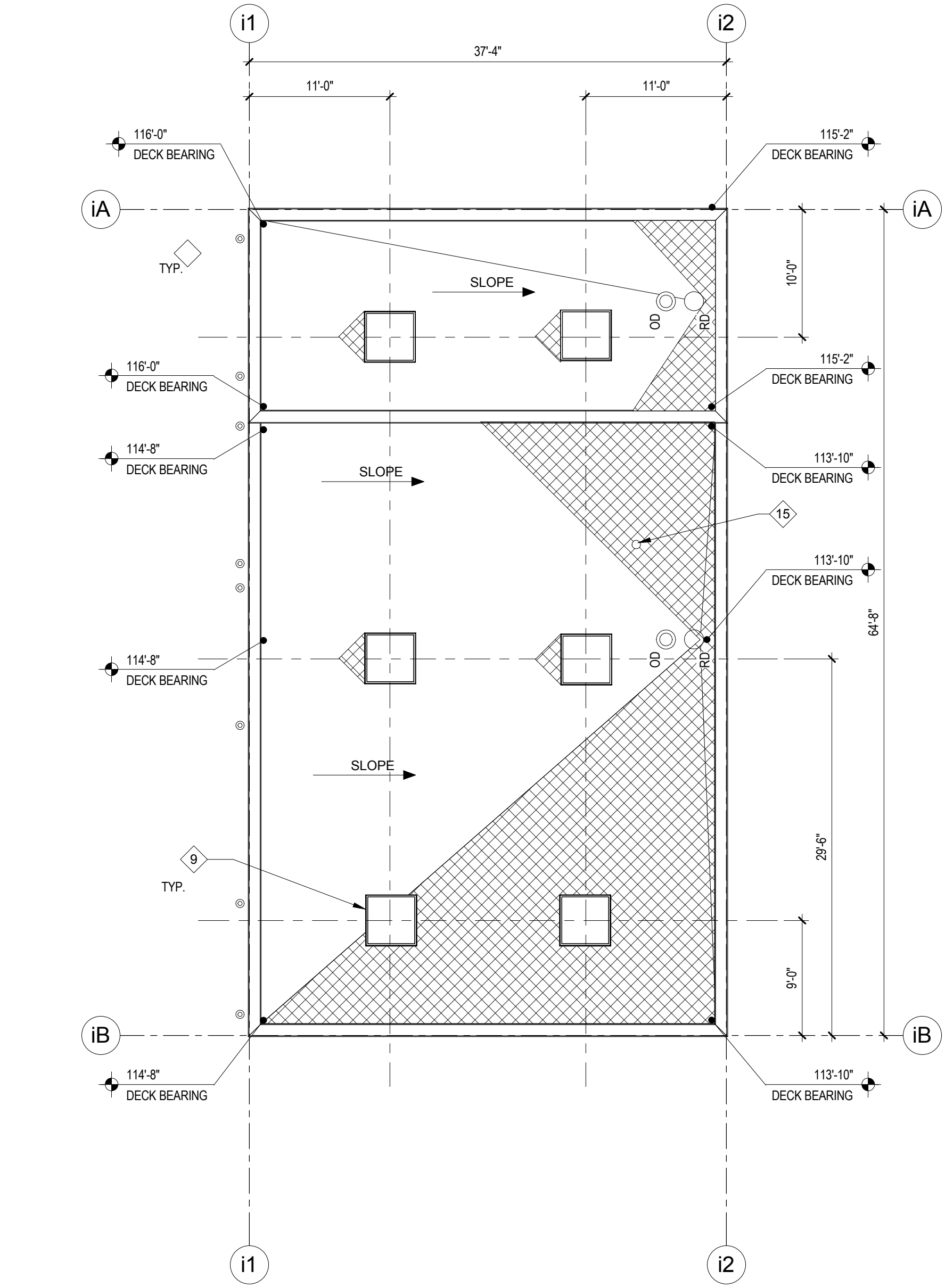
E1 EAST ELEVATION  
AE102 SCALE 1/8" = 1'-0"



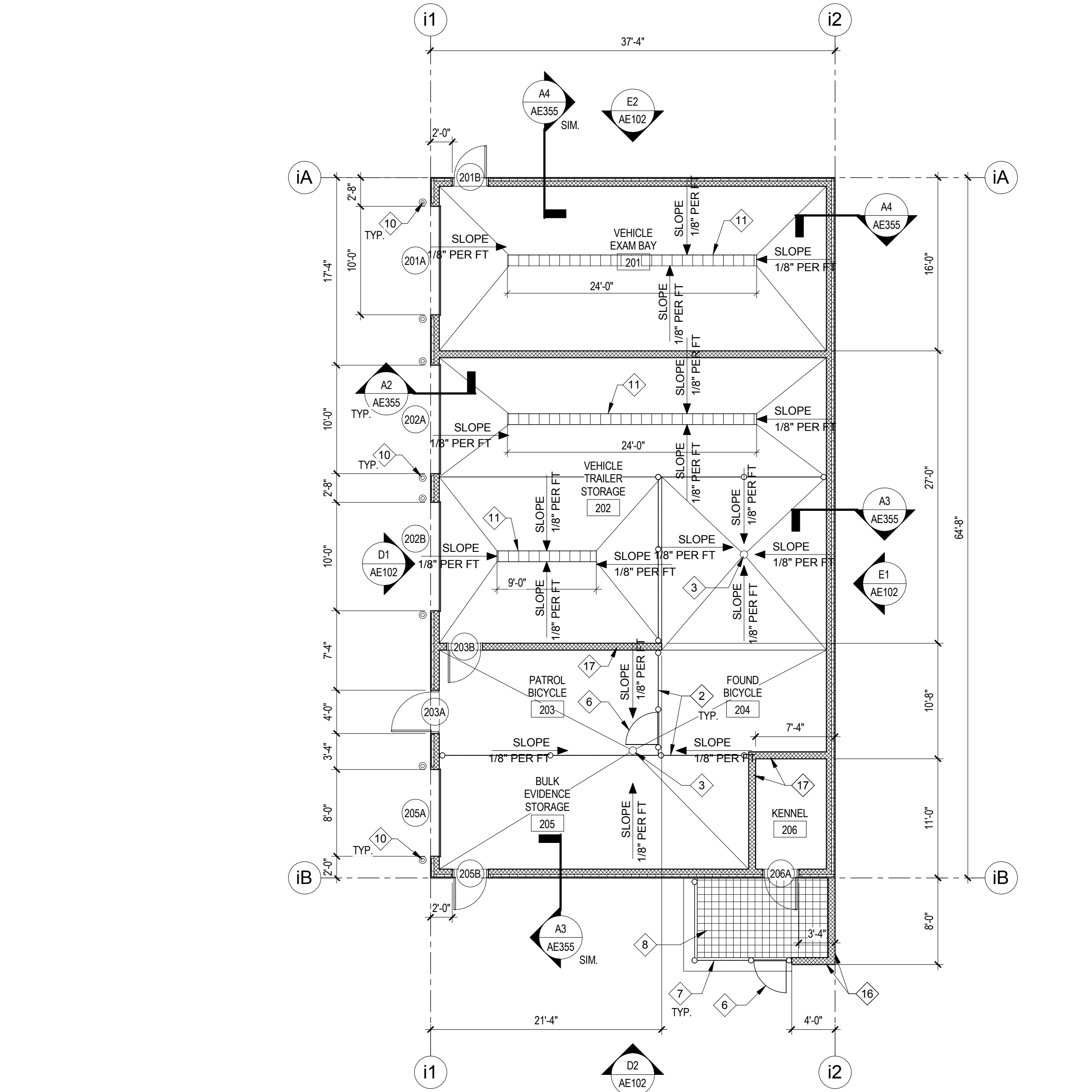
D2 SOUTH ELEVATION  
AE102 SCALE 1/8" = 1'-0"



D1 WEST ELEVATION  
AE102 SCALE 1/8" = 1'-0"



A4 ANCILLARY BUILDING ROOF PLAN  
AE102 SCALE 1/8" = 1'-0"



A2 ANCILLARY BUILDING FLOOR PLAN  
AE102 SCALE 1/8" = 1'-0"

GENERAL NOTES:

- SEE SHEET G101 FOR ARCHITECTURAL LEGENDS, SYMBOLS, AND ABBREVIATIONS.
  - SEE SHEET AE01 FOR DOOR AND FINISH SCHEDULES.
  - APPLY WATER REPELLANT TO ALL MASONRY, MASONRY VENEER, STONE VENEER, CAST-IN-PLACE CONCRETE AND PRE-CAST CONCRETE SURFACES.
- KEY NOTES:
- SKYLIGHT
  - 6" HIGH CHAIN LINK FENCE, CONT. FROM FINISH FLOOR TO B.O. ROOF DECK
  - FLOOR DRAIN, SEE PLUMBING DWGS
  - SCHEDULED DOOR AND FRAME
  - SHEET METAL FLASHING
  - 3'-0" WIDE BY 7'-0" HIGH SWING GATE W/ CONT. CHAIN LINK FENCE ABOVE
  - 6'-0" HIGH CHAIN LINK FENCE W/ PRIVACY SLATS
  - HATCH INDICATES CONTINUOUS CHAINLINK LID WITH HORIZONTAL STEEL PIPE SUPPORTS @ 32" O.C. AND PRIVACY SLATS
  - 30" x 30" UNIT SKYLIGHT
  - BOLLARD, SEE C1/AE501
  - TRENCH DRAIN, SEE PLUMBING DWGS
  - DECORATIVE CMU BEYOND
  - DECORATIVE CMU
  - SHEET METAL FLASHING BEYOND
  - VENT, SEE PLUMBING DWGS AND D6/AE542
  - 8" DECORATIVE CMU, T.O. MASONRY, 8'-8" AFF.
  - T.O. MASONRY: 1" FROM B.O. DECK

LEGEND:

- METAL ROOF PANEL SYSTEM OVER CONT. UNDERLAYMENT OVER 4'-0" RIGID INSULATION OVER METAL DECK
- METAL ROOF PANEL SYSTEM OVER CONT. UNDERLAYMENT OVER METAL DECK
- SINGLE-PLY MEMBRANE ROOF SYSTEM OVER 5" RIGID INSULATION OVER METAL DECK, DECK IS SLOPED
- SINGLE-PLY MEMBRANE ROOF SYSTEM OVER TAPERED RIGID INSULATION SLOPED TO DRAIN @ 1/4" PER FOOT OVER 5" RIGID INSULATION
- R.D. PRIMARY ROOF DRAIN, SEE DETAIL D4/AE542
- O.D. OVERFLOW DRAIN, SEE DETAIL D4/AE542
- DECK BEARING ELEVATION
- 30"x36" ROOF HATCH WITH 36"x36" WALK PAD, SEE E6/AE542
- VENT, SEE D6/AE542

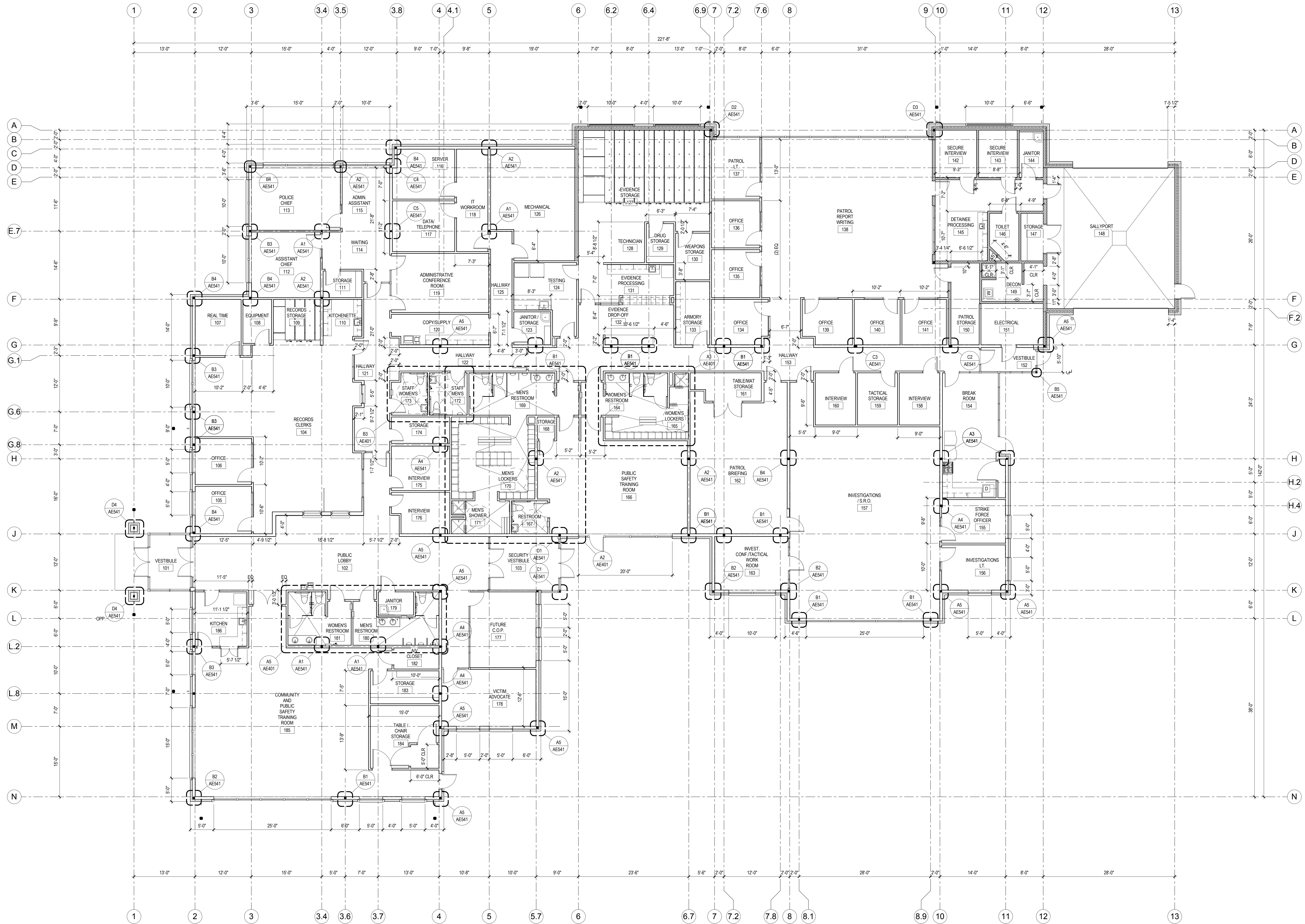
KAYSVILLE CITY POLICE STATION  
KAYSVILLE, UTAH

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ARCHITECTS  
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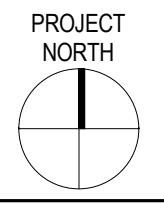
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ANCILLARY BUILDING PLANS & ELEVATIONS  
AE102





A4 MAIN FLOOR DIMENSION PLAN  
AE111 SCALE 1/8" = 1'-0"



- GENERAL NOTES:
- SEE SHEET G101 FOR ARCHITECTURAL LEGENDS, SYMBOLS, AND ABBREVIATIONS.
  - ALL DIMENSIONS ARE TO FACE OF STUD OR CMU IN NEW CONSTRUCTION (U.N.O.).
  - COORDINATE LOCATIONS OF ALL FLOOR AND ROOF DRAINS WITH PLUMBING PLANS.

KAYSVILLE CITY POLICE  
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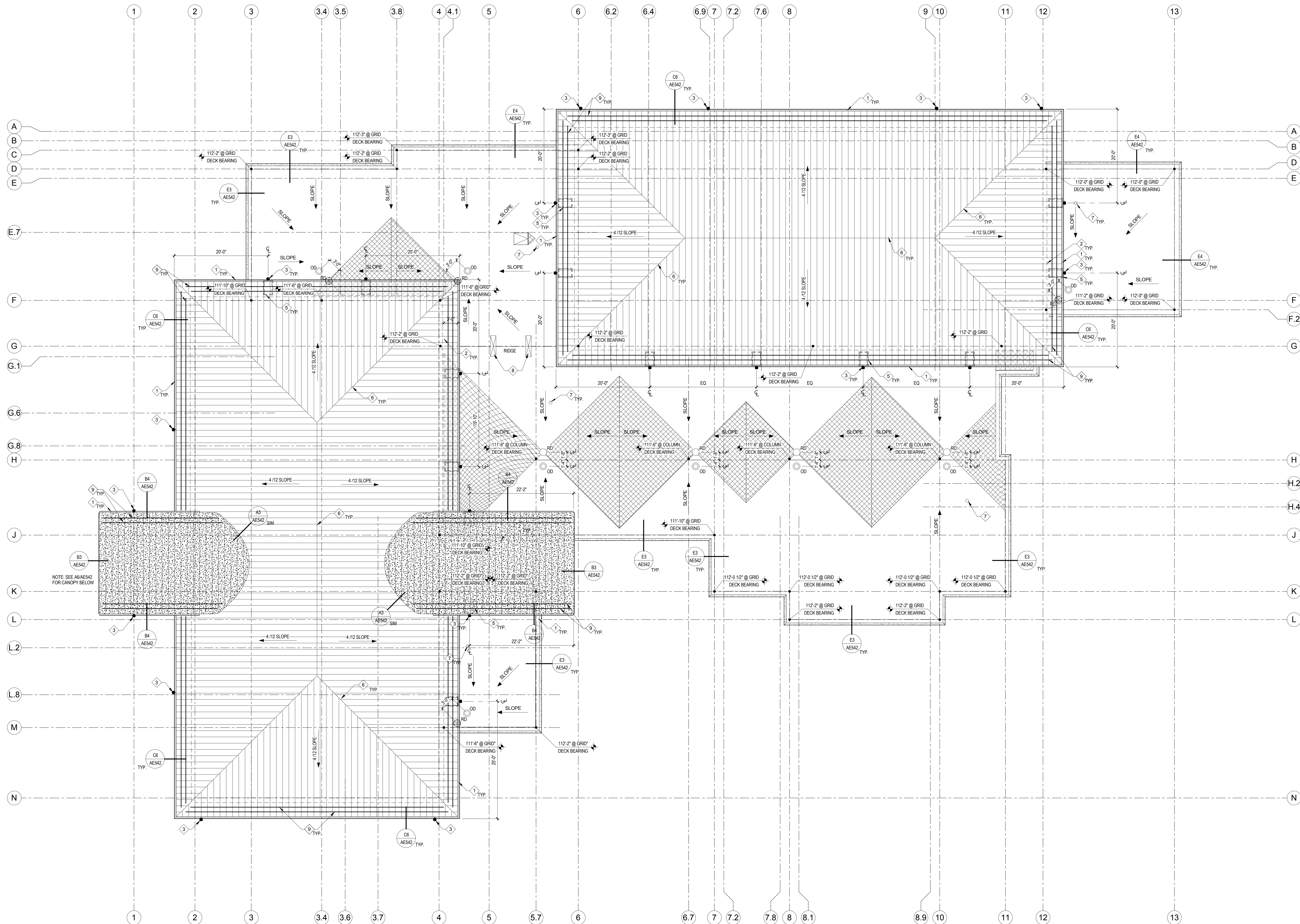
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DIMENSION  
FLOOR PLAN

AE111





- KEY NOTES:**
- 1 GUTTER SYSTEM SEE SHEET A201 FOR DOWNSPOUT LOCATIONS
  - 2 DASHED LINE INDICATES WALL BELOW
  - 3 GUTTER SYSTEM DOWNSPOUT LOCATION
  - 4 SKYLIGHT
  - 5 3'-0" x 3'-0" WALK PAD @ ALL GUTTER DOWNSPOUT LOCATIONS
  - 6 METAL ROOF PANEL MANUFACTURERS STANDARD NON-VENTED RIDGE AND HIP FLASHING
  - 7 VENT: SEE PLUMBING DWGS AND D6AE542
  - 8 MECHANICAL EQUIPMENT: SEE MECHANICAL DWGS.
  - 9 SNOW FENCE; (2) ROW AT ALL LOW EAVE LOCATIONS.

- LEGEND:**
- METAL ROOF PANEL SYSTEM OVER CONT. UNDERLAYMENT OVER 4 1/2" RIGID INSULATION OVER METAL DECK
  - METAL ROOF PANEL SYSTEM OVER CONT. UNDERLAYMENT OVER METAL DECK
  - SINGLE-PLY MEMBRANE ROOF SYSTEM OVER 5" RIGID INSULATION OVER METAL DECK. DECK IS SLOPED
  - SINGLE-PLY MEMBRANE ROOF SYSTEM OVER TAPERED RIGID INSULATION SLOPED TO DRAIN @ 1/4" PER FOOT OVER 5" RIGID INSULATION
  - PRIMARY ROOF DRAIN: SEE DETAIL D4AE542
  - OVERFLOW DRAIN: SEE DETAIL D4AE542
  - DECK BEARING ELEVATION
  - 30"x36" ROOF HATCH WITH 36"x36" WALK PAD: SEE E6AE542
  - VENT: SEE D6AE542

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ROOF PLAN

AE151



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KEY NOTES:  
1 FRAMED GYP. BD. FASCIA  
2 FRAMED GYP. BD. HEADER. SEE A4/AE521

CEILING TYPES:  
A SUSPENDED GYPSUM BOARD CEILING SYSTEM.  
B 12"x12" ACOUSTICAL TILE ADHERED TO SUSPENDED GYPSUM BOARD CEILING SYSTEM.  
C 2"x2" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM, COMPLY WITH C1/AE521, B3/AE521, AND B4/AE521  
D 2"x4" SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM, COMPLY WITH C1/AE521, B3/AE521, AND B4/AE521  
E EXPOSED STRUCTURE. PAINT  
F FRAMED GYP. BOARD SOFFIT  
G SECURITY CEILING SYSTEM. SEE C3/AE521  
H 6" X 6" CERAMIC TILE OVER SUSPENDED GYP. BD. CEILING SYSTEM

REFLECTED CEILING PLAN LEGEND:  
101 ROOM NUMBER  
VARIES CEILING HEIGHT  
A CEILING TYPE  
2x4 FLOURESCENT LIGHT FIXTURE. SEE ELECTRICAL DRWS.  
INDIRECT LIGHT FIXTURE. SEE ELECTRICAL DRWS.  
RECESSED LIGHT FIXTURE. SEE ELECTRICAL DRWS.  
RETURN AIR GRILL. SEE MECHANICAL DRWS.  
SUPPLY AIR GRILL. SEE MECHANICAL DRWS.  
EXHAUST FAN. SEE MECHANICAL DRWS.

## KAYSVILLE CITY POLICE STATION

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REFLECTED  
CEILING PLAN

AE161

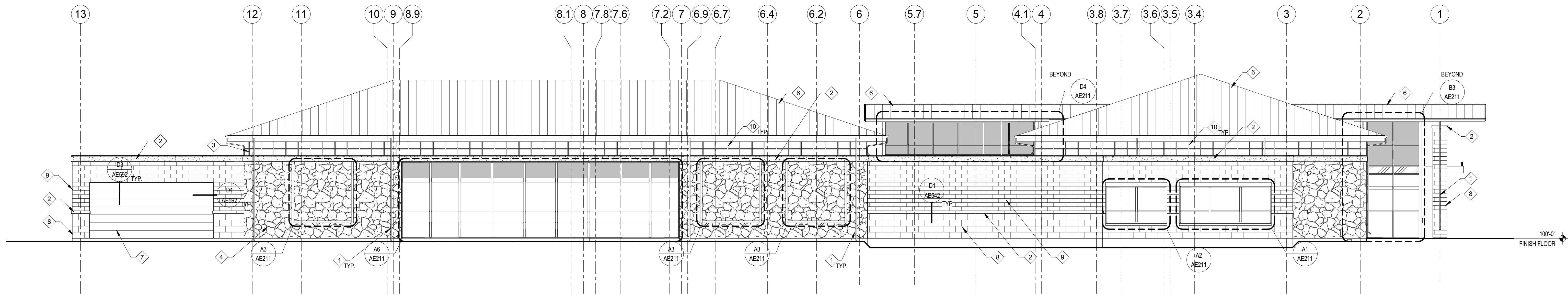
A4 REFLECTED CEILING PLAN  
AE161 SCALE 1/8" = 1'-0"



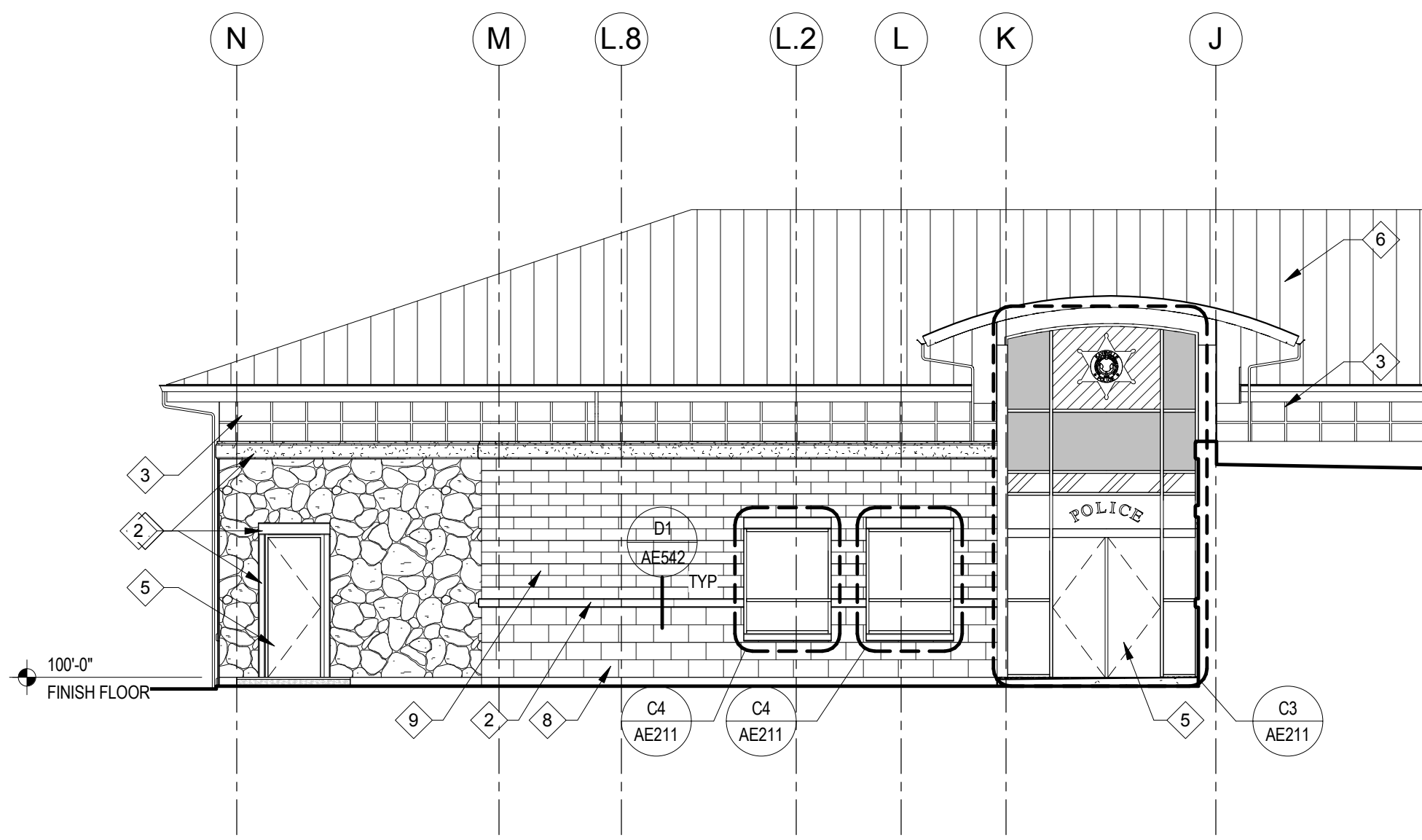


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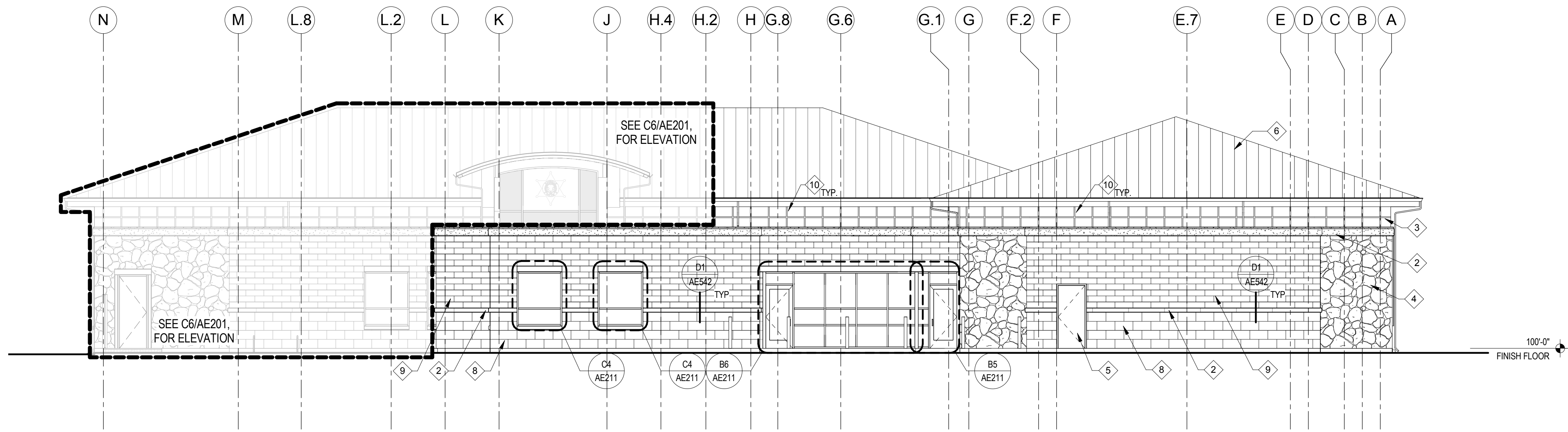
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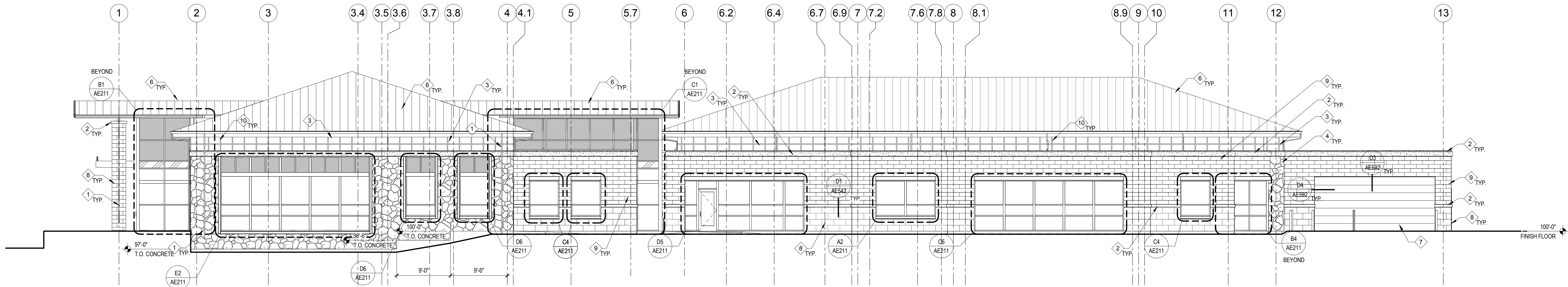
D5 NORTH ELEVATION  
AE201 SCALE 1/8" = 1'-0"



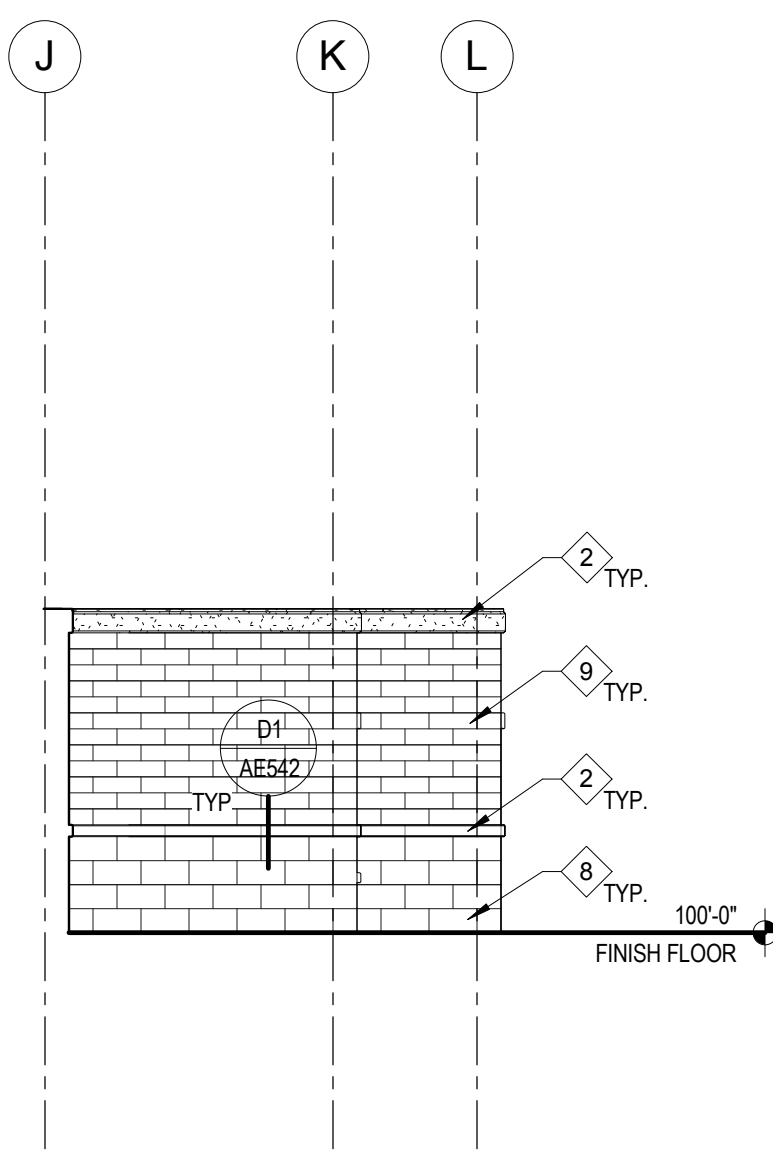
C6 EAST ELEVATION  
AE201 SCALE 1/8" = 1'-0"



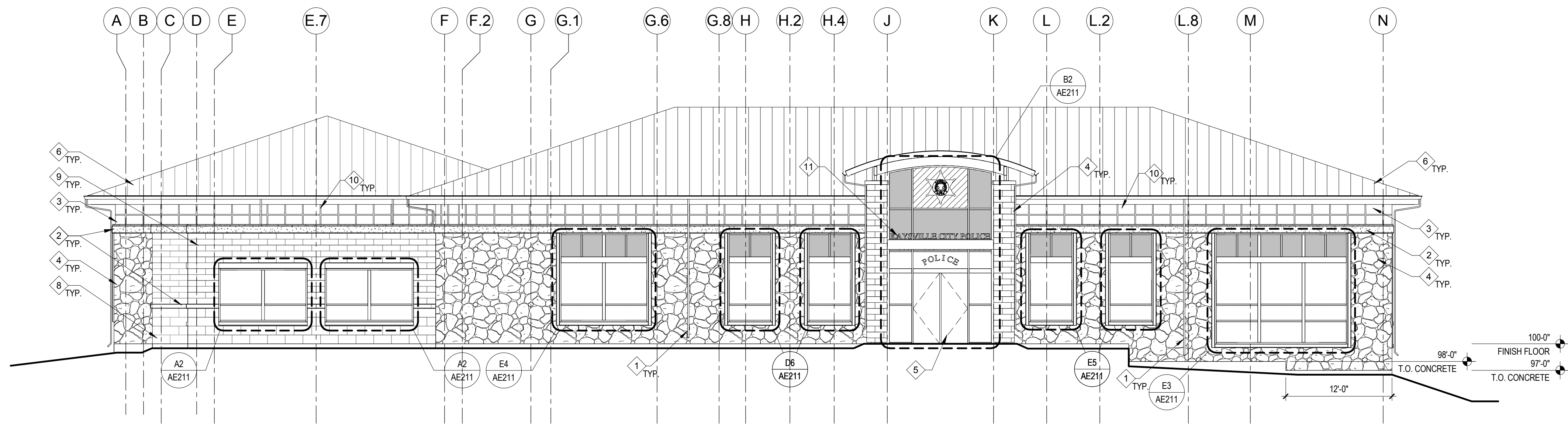
C4 EAST ELEVATION  
AE201 SCALE 1/8" = 1'-0"



B6 SOUTH ELEVATION  
AE201 SCALE 1/8" = 1'-0"



A5 WEST ELEVATION  
AE201 SCALE 1/8" = 1'-0"



A4 WEST ELEVATION  
AE201 SCALE 1/8" = 1'-0"

#### GENERAL NOTES:

1. SLOPE GRADE 2% MIN. FROM BUILDING
2. APPLY WATER REPELLANT TO ALL MASONRY, MASONRY VENEER, STONE VENEER, CAST-IN-PLACE CONCRETE AND PRE-CAST CONCRETE SURFACES.

#### KEY NOTES:

1. GUTTER DOWNSPOUT WITH PRE-CAST CONC. SPLASH BLOCK
2. PRECAST CONCRETE ELEMENT
3. METAL WALL PANEL SYSTEM, COMPLY WITH A1/AE542, A2/AE542, & B1/AE542
4. STONE VENEER
5. SCHEDULED DOOR AND FRAME
6. METAL ROOF PANEL SYSTEM
7. SCHEDULED DOOR
8. 12" HIGH MANUFACTURED STONE MASONRY VENEER
9. 8" HIGH MANUFACTURED STONE MASONRY VENEER
10. METAL WALL PANEL VERTICAL JOINT @ 16" O.C. MAX., COMPLY WITH A2/AE542
11. 9" HIGH DIMENSIONAL LETTER SIGNAGE, SEE A5/AE353

#### KAYSVILLE CITY POLICE STATION

KAYSVILLE, UTAH



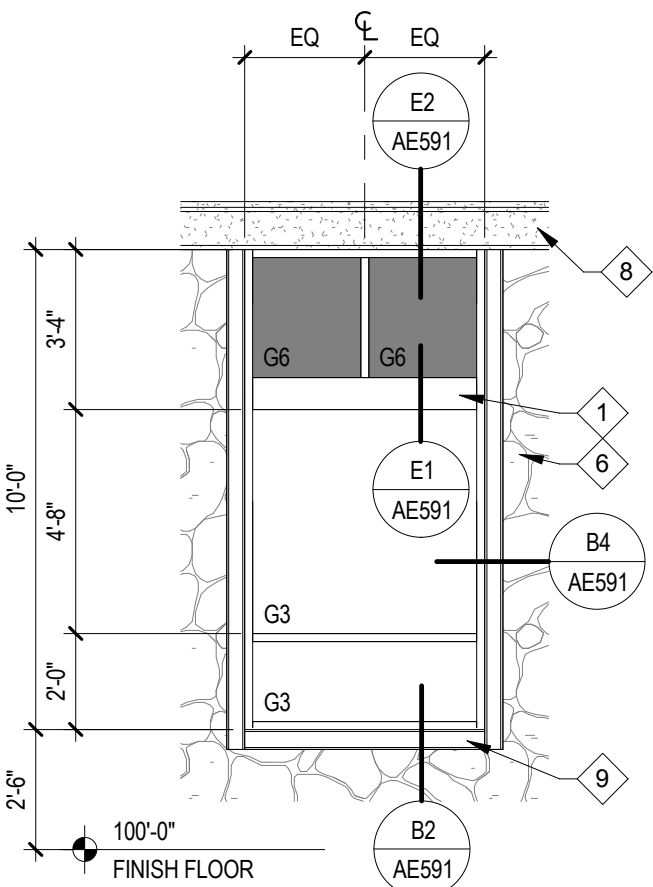
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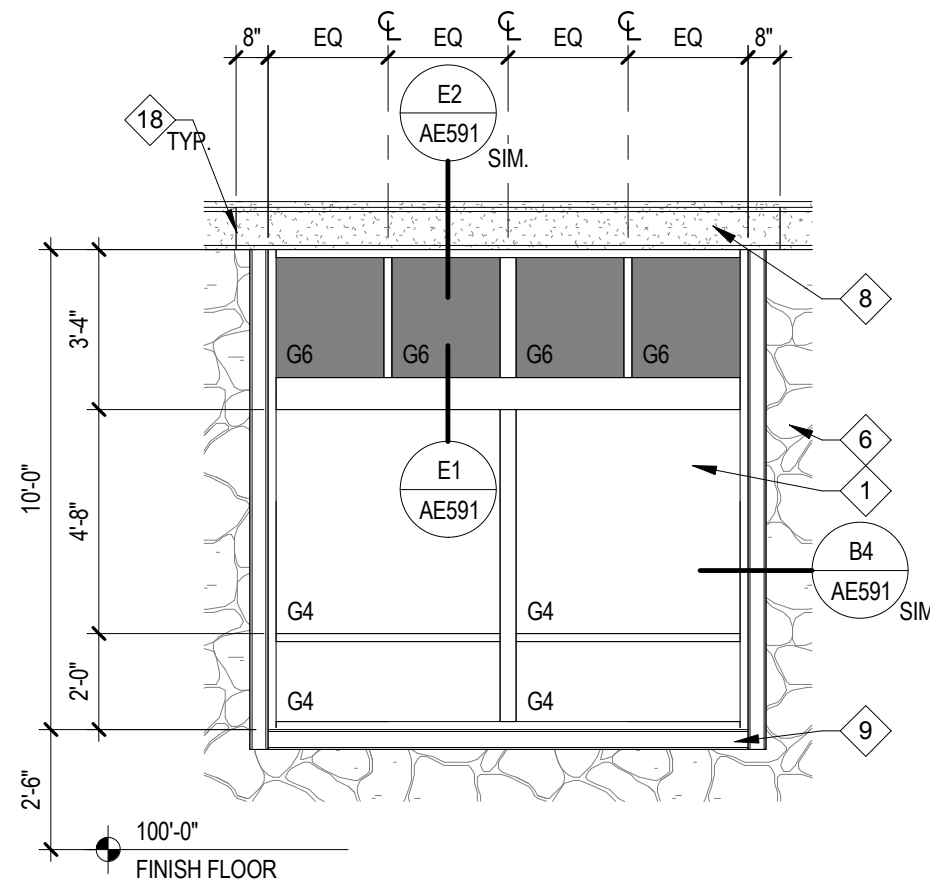
EXTERIOR ELEVATIONS

AE201

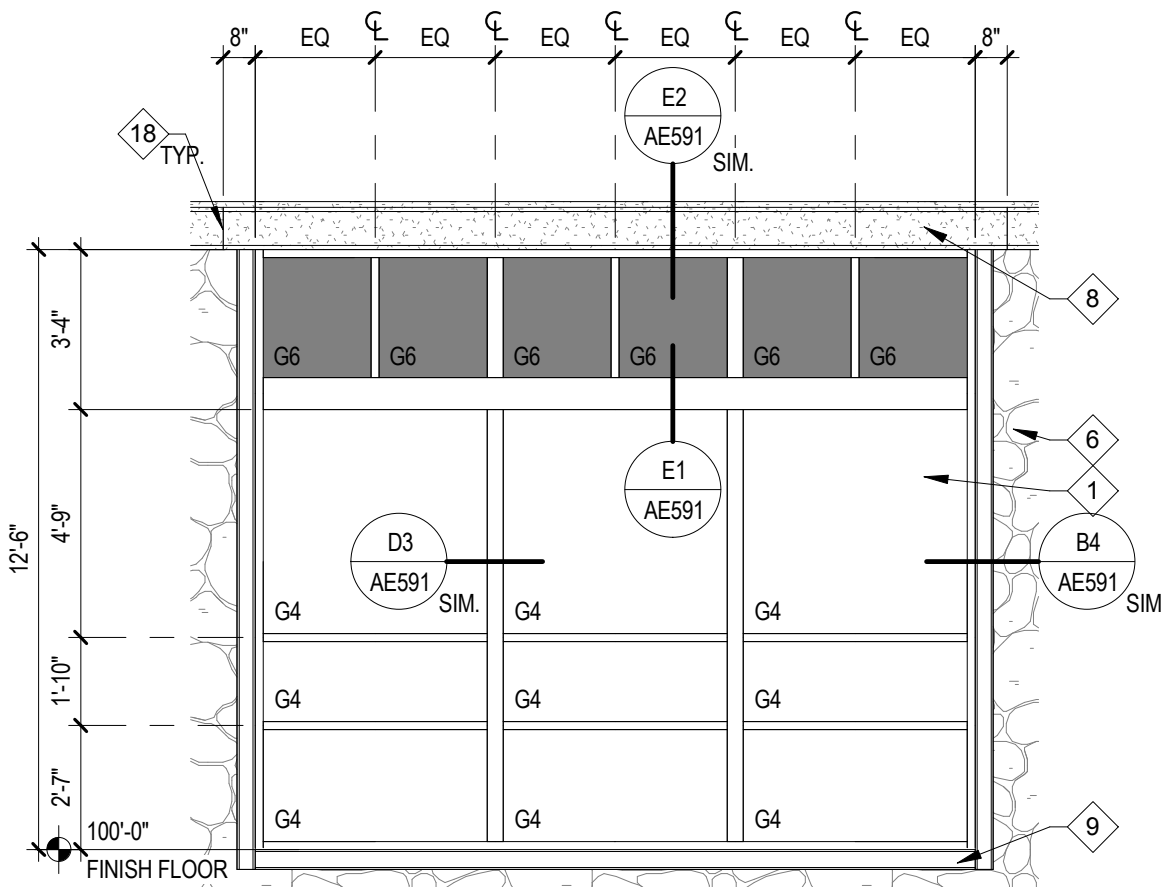




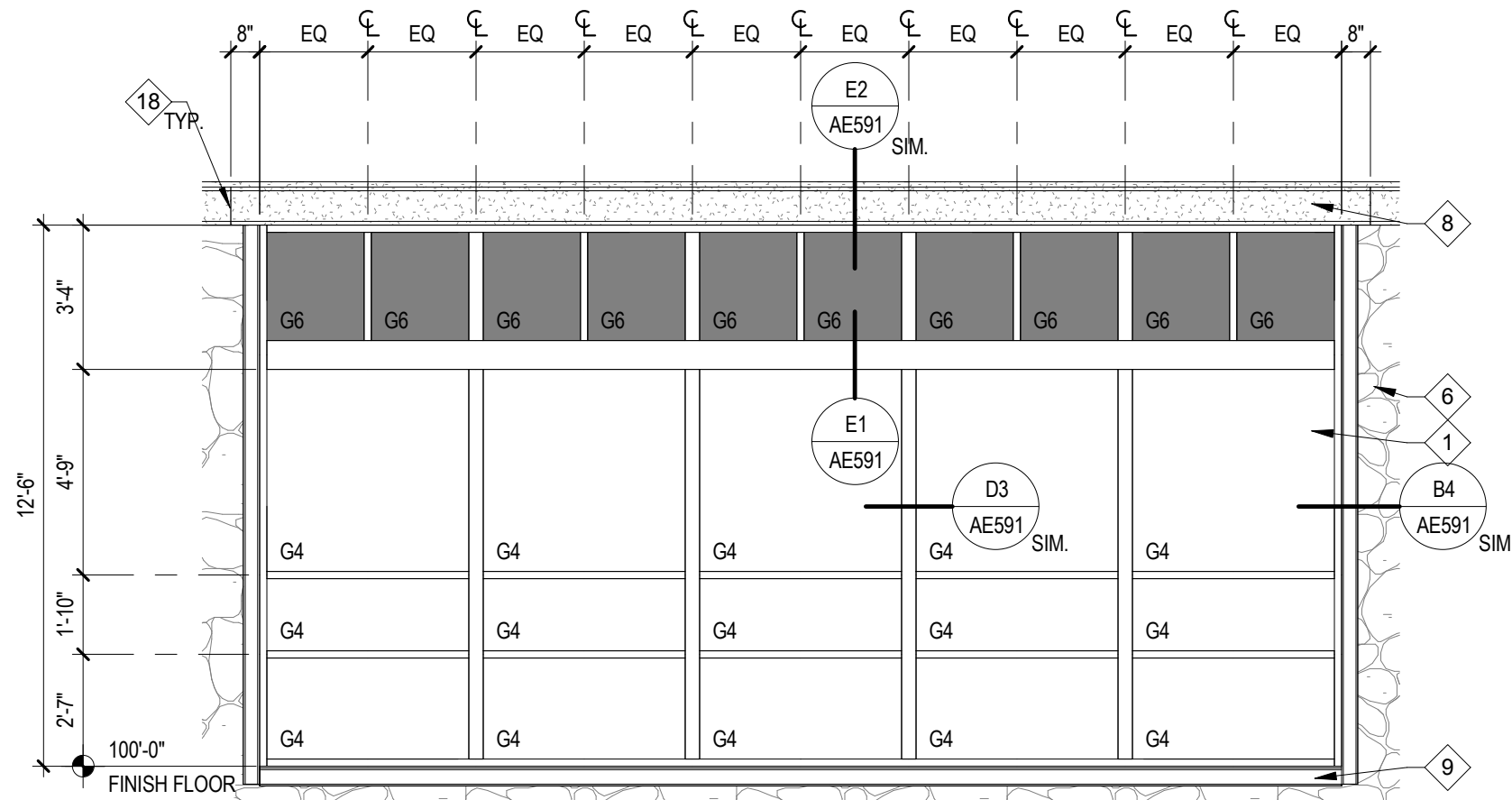
E5 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



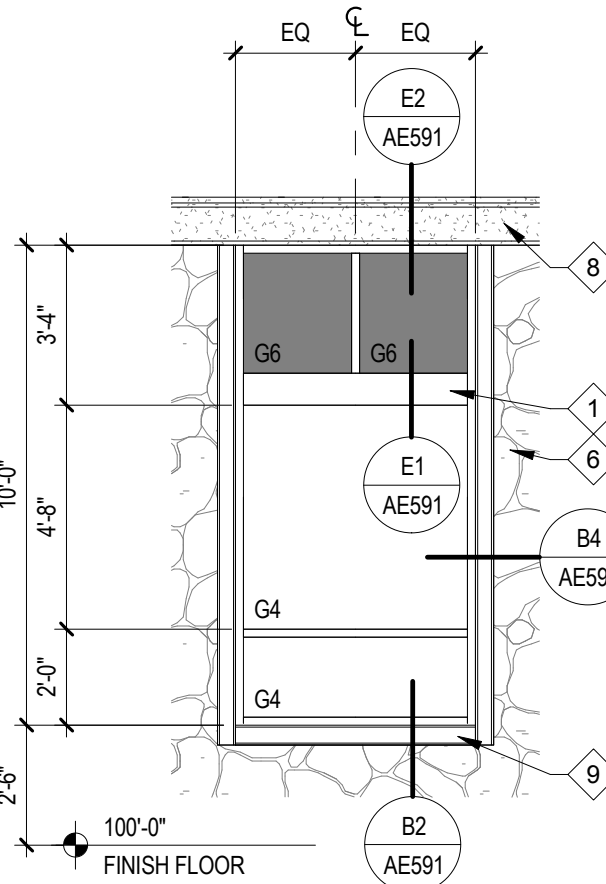
E4 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



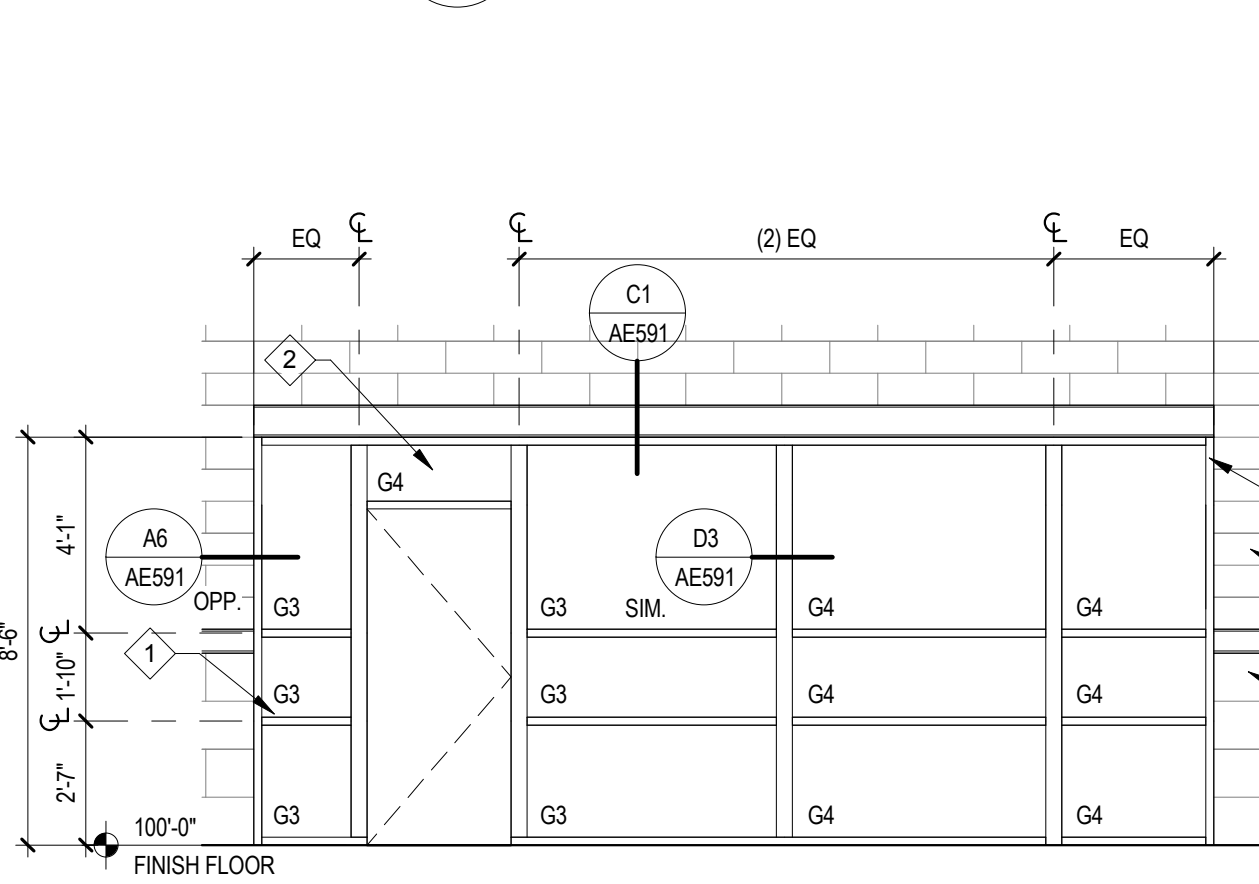
E3 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



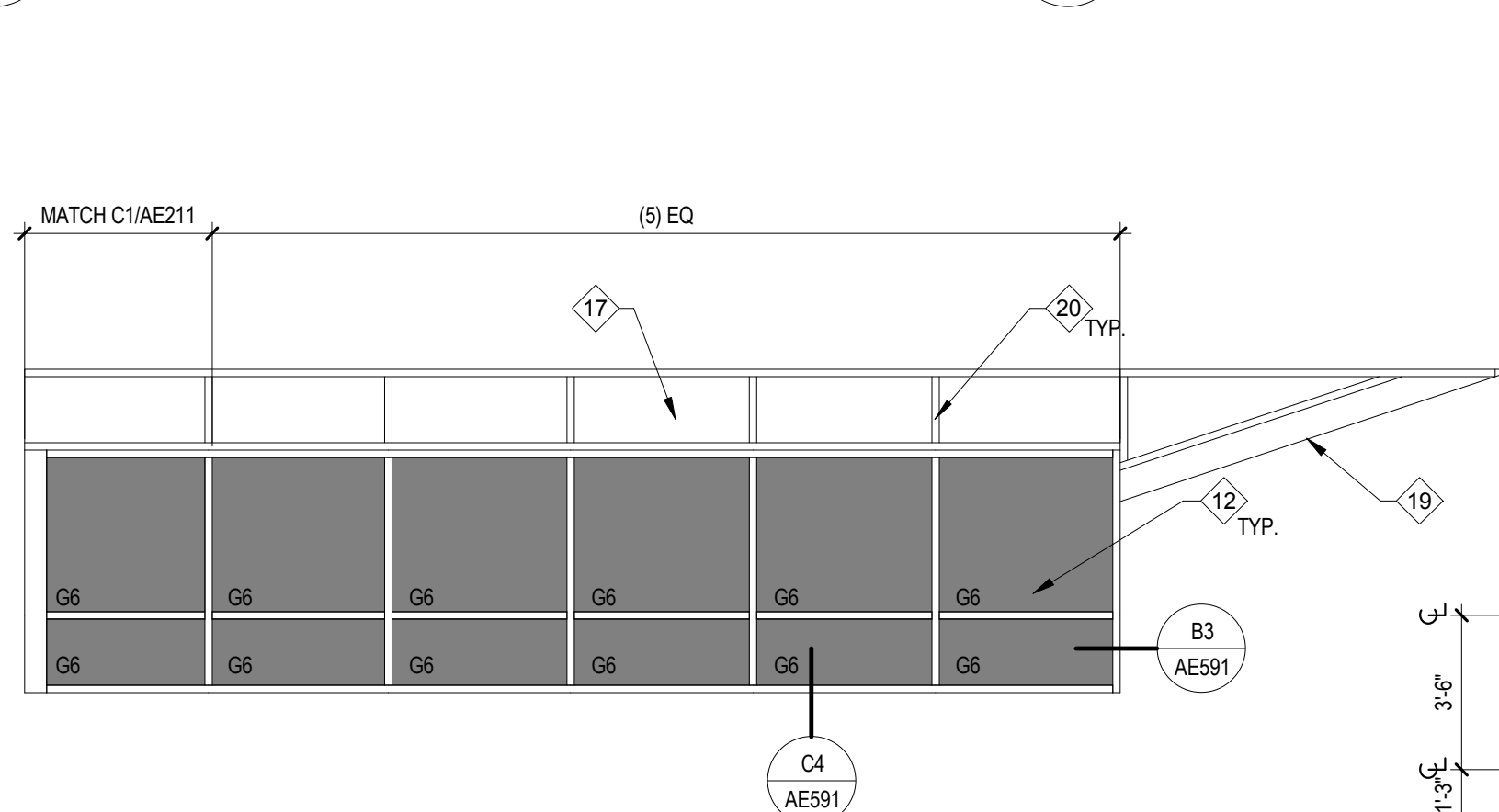
E2 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



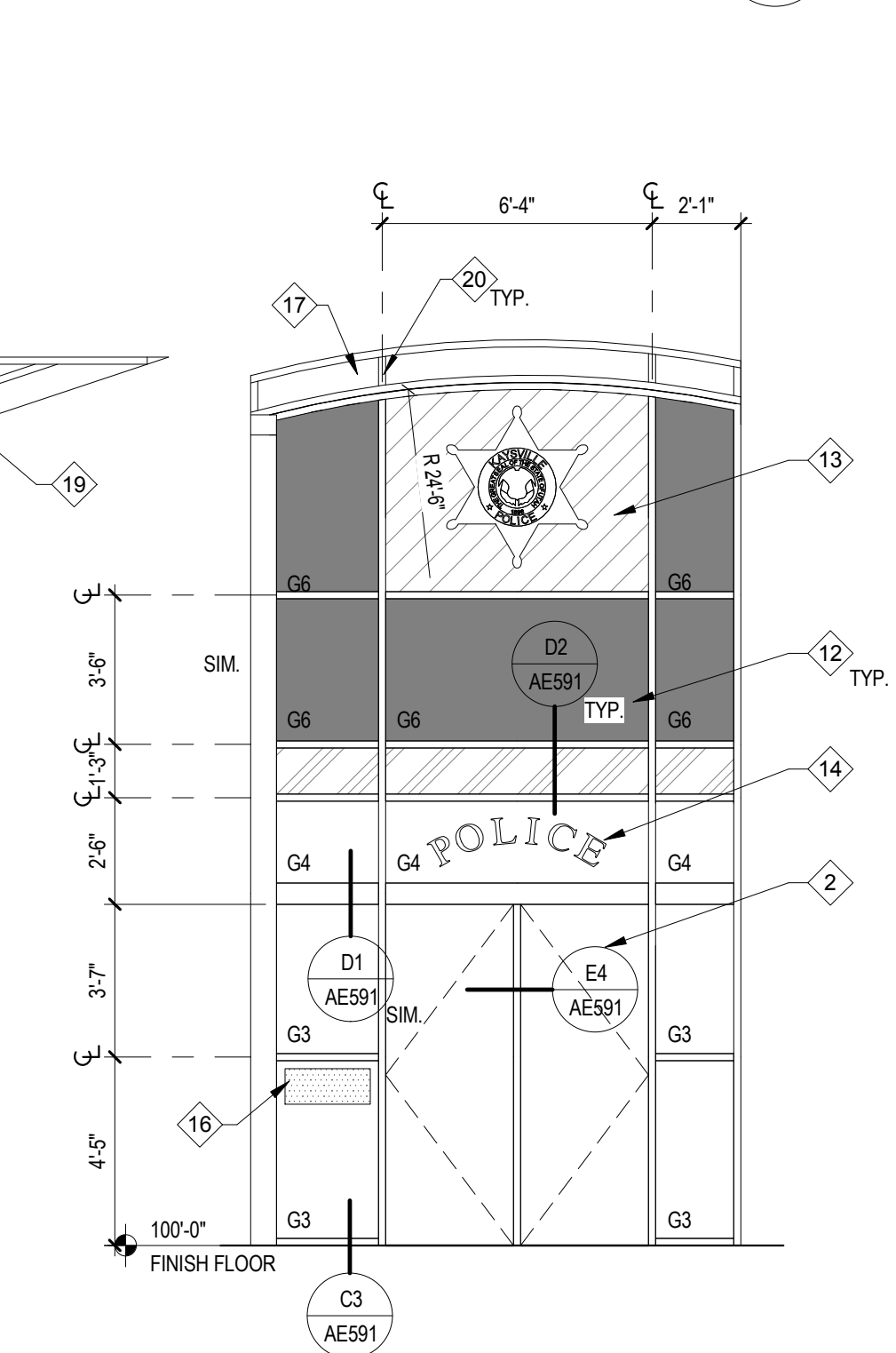
D6 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



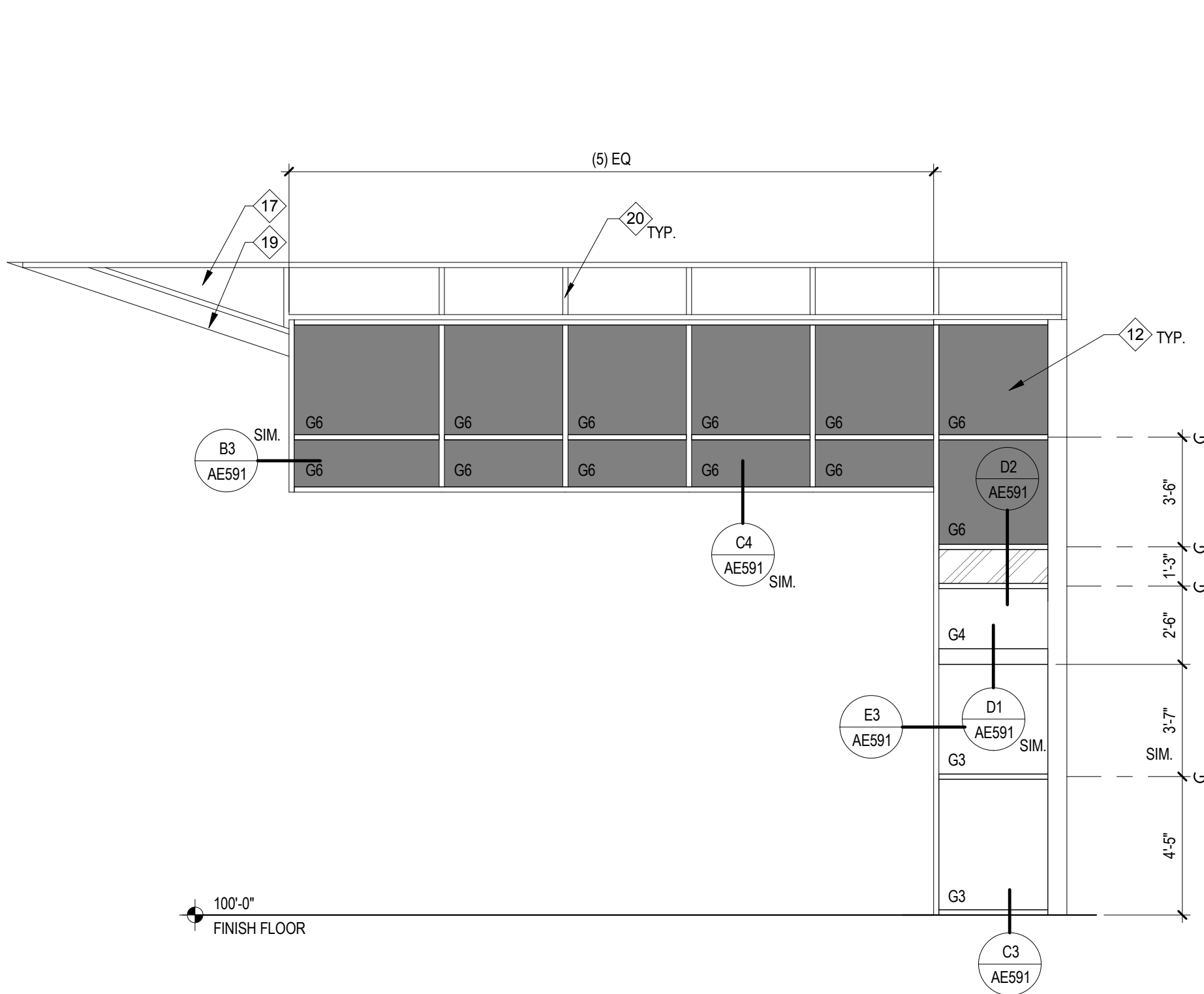
D5 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



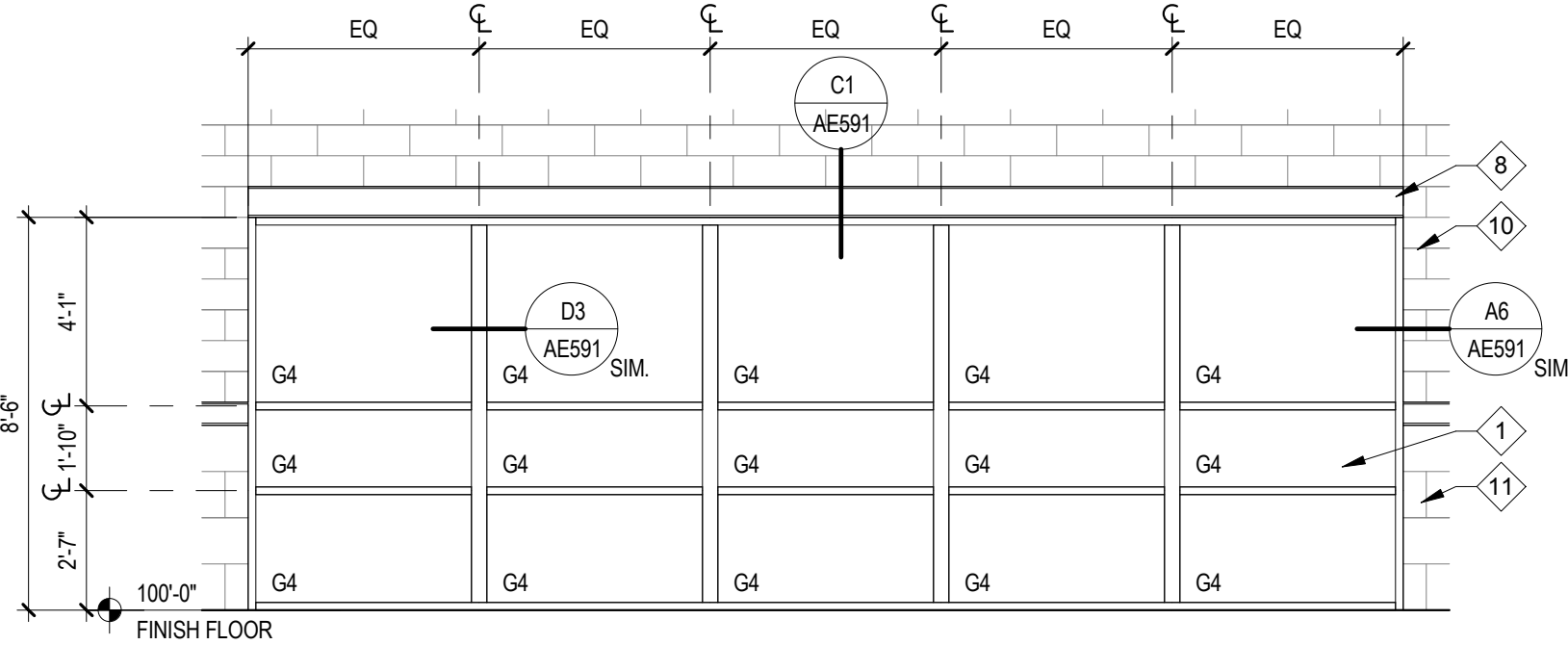
D4 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



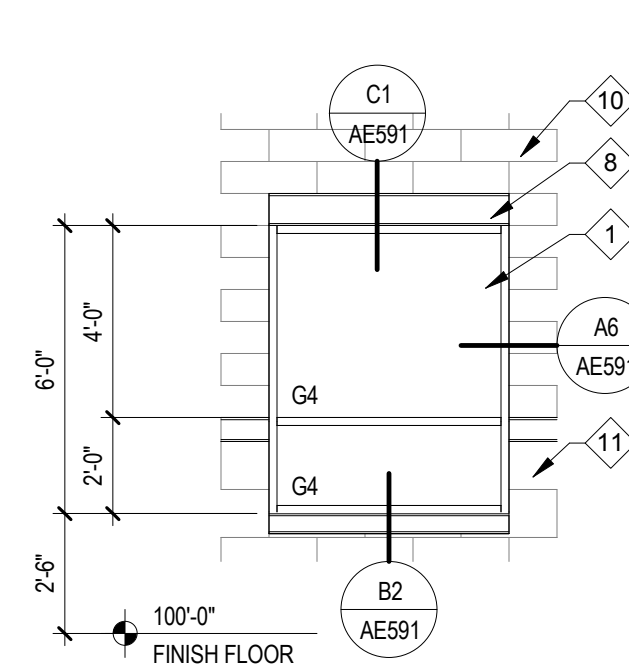
C3 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



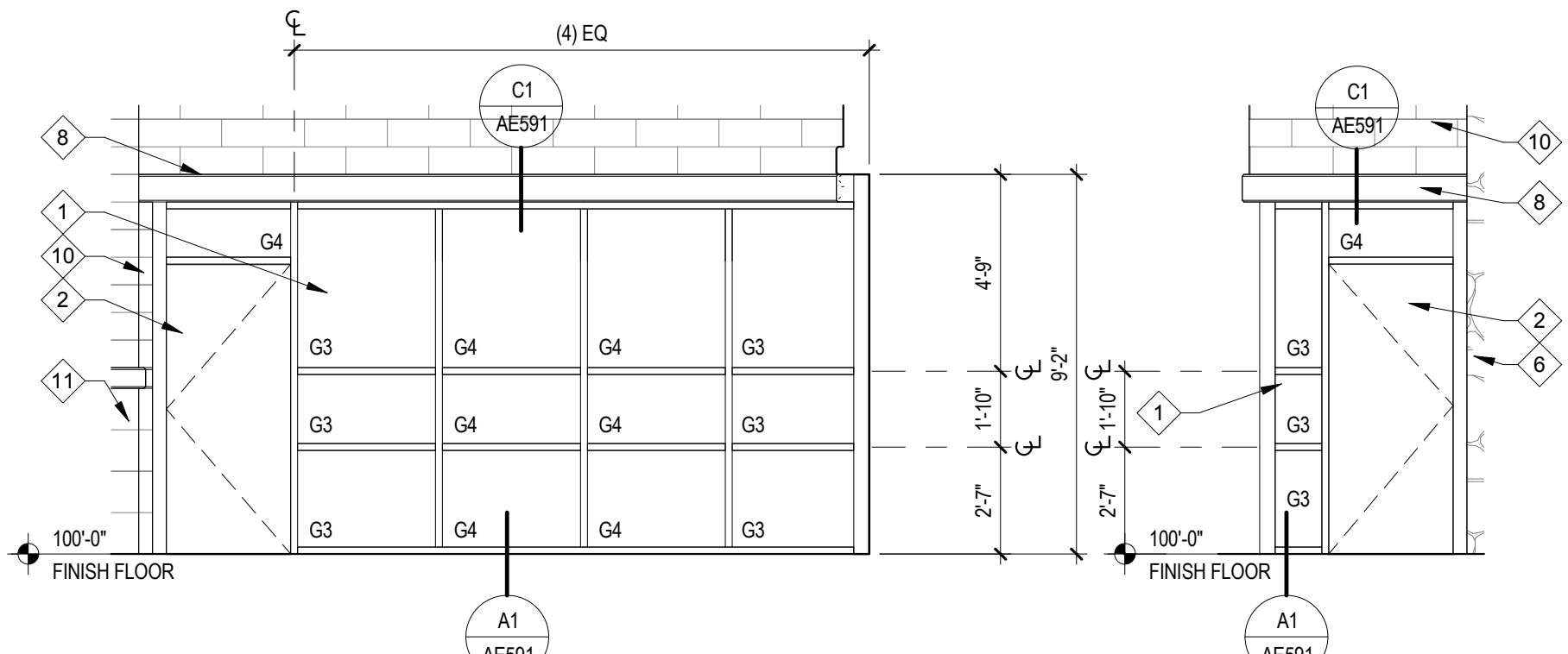
C1 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



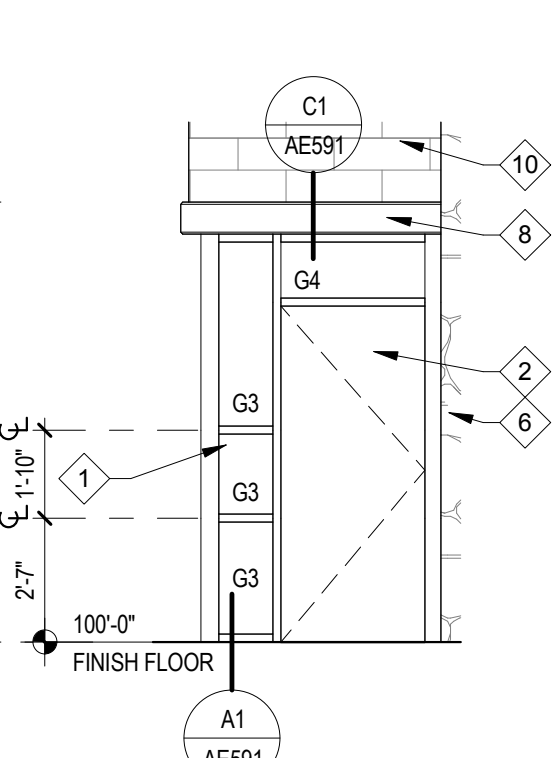
C6 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



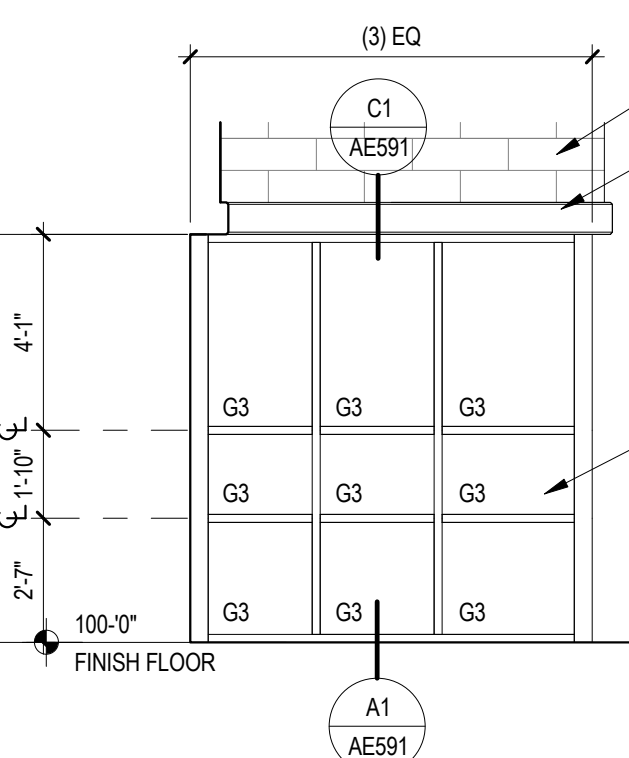
C4 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



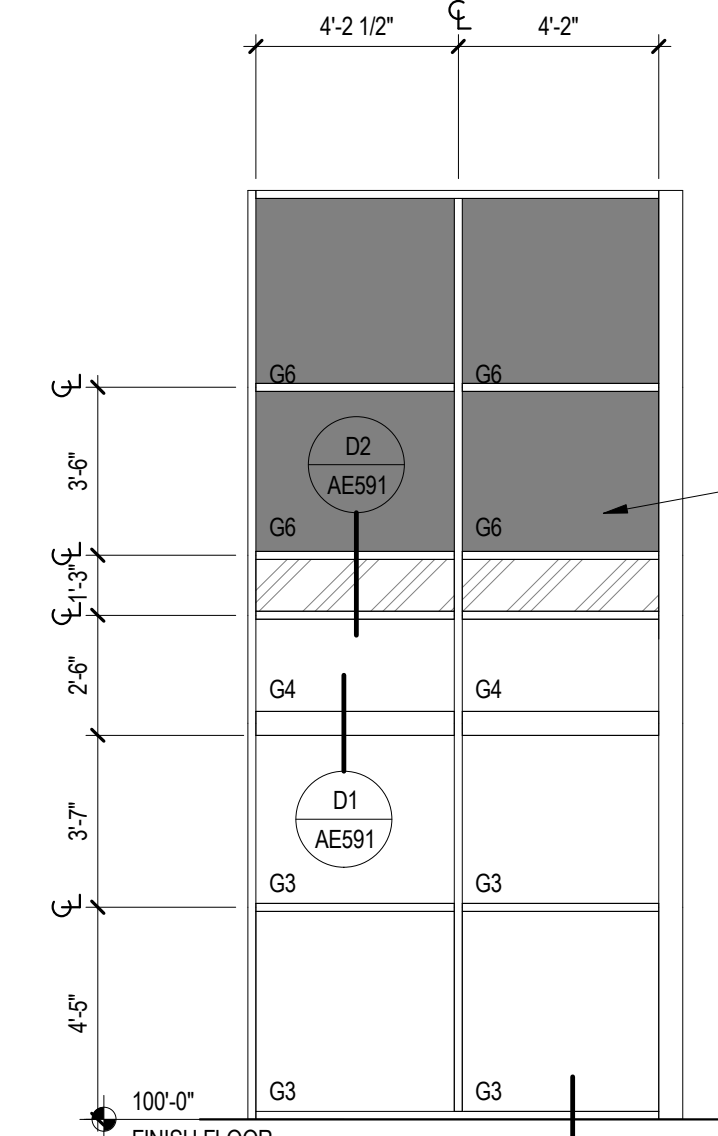
B6 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



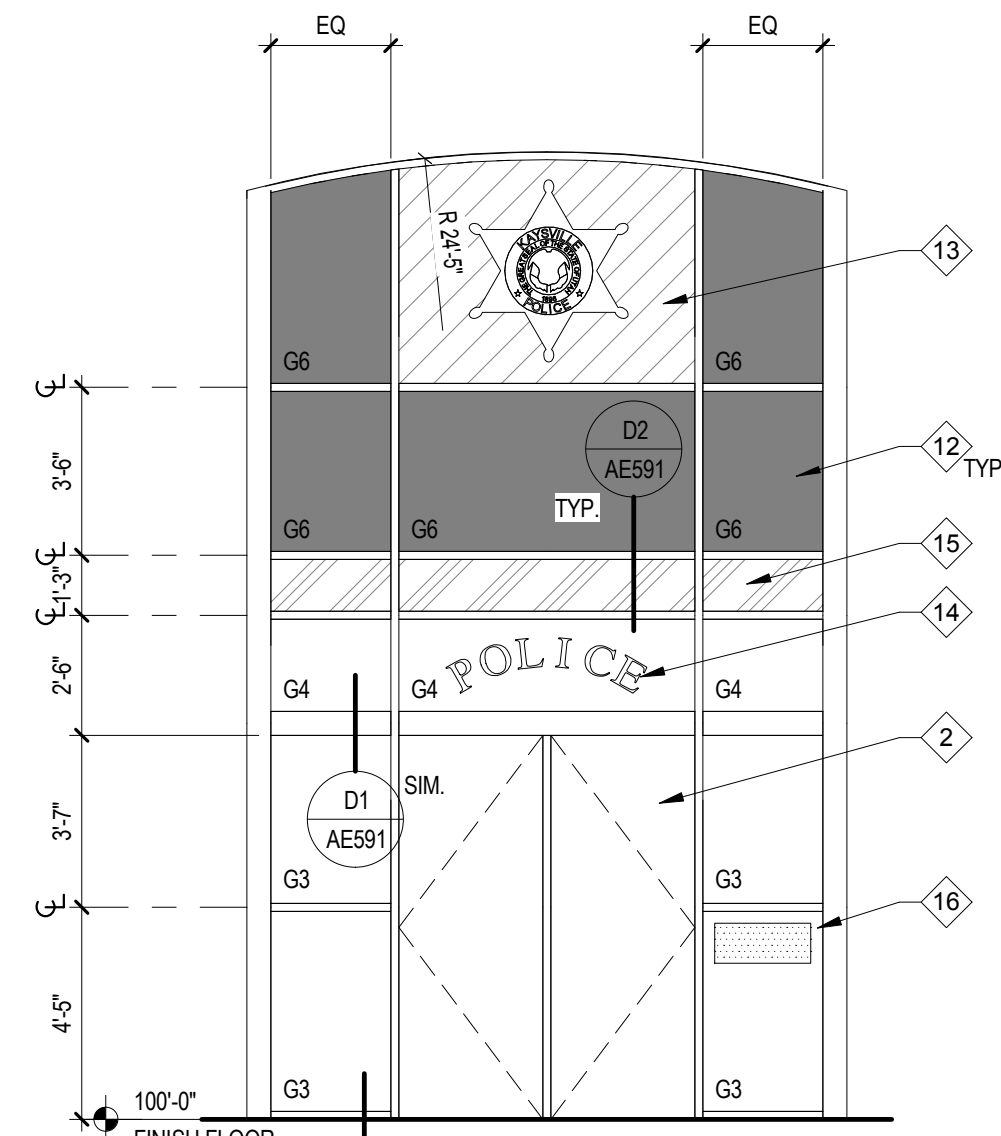
B5 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



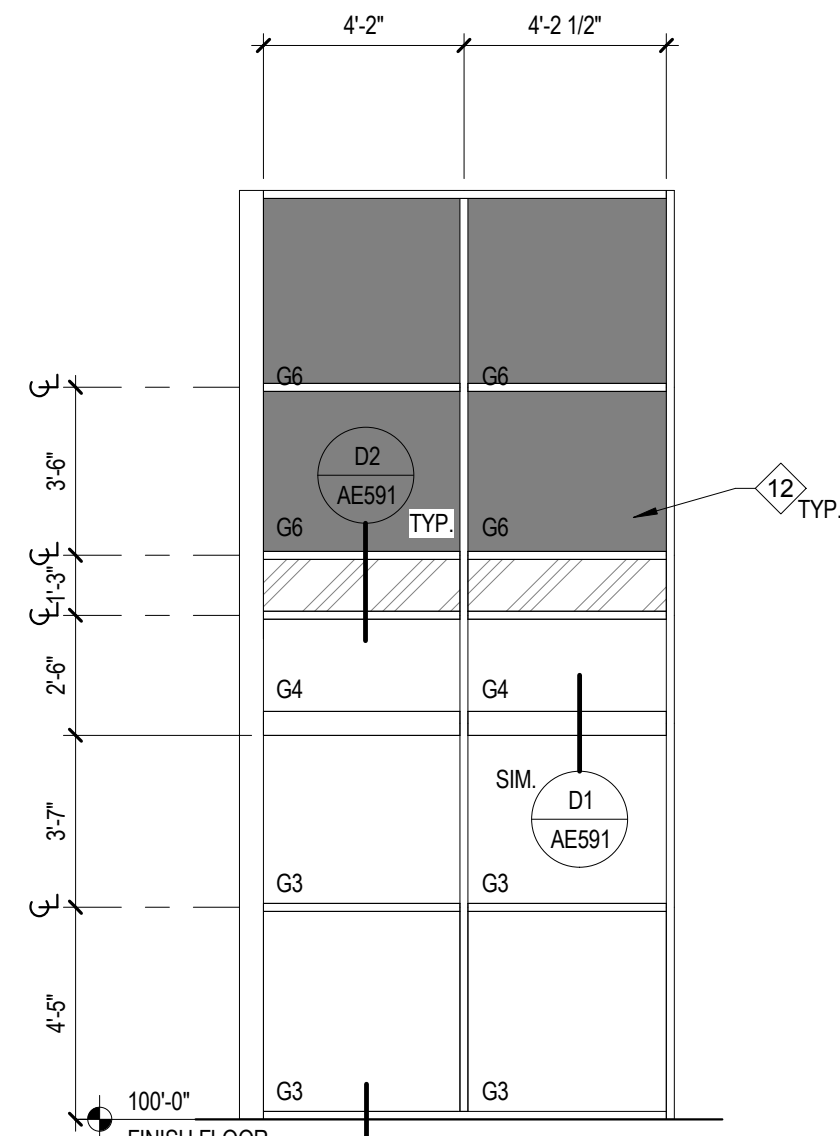
B4 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



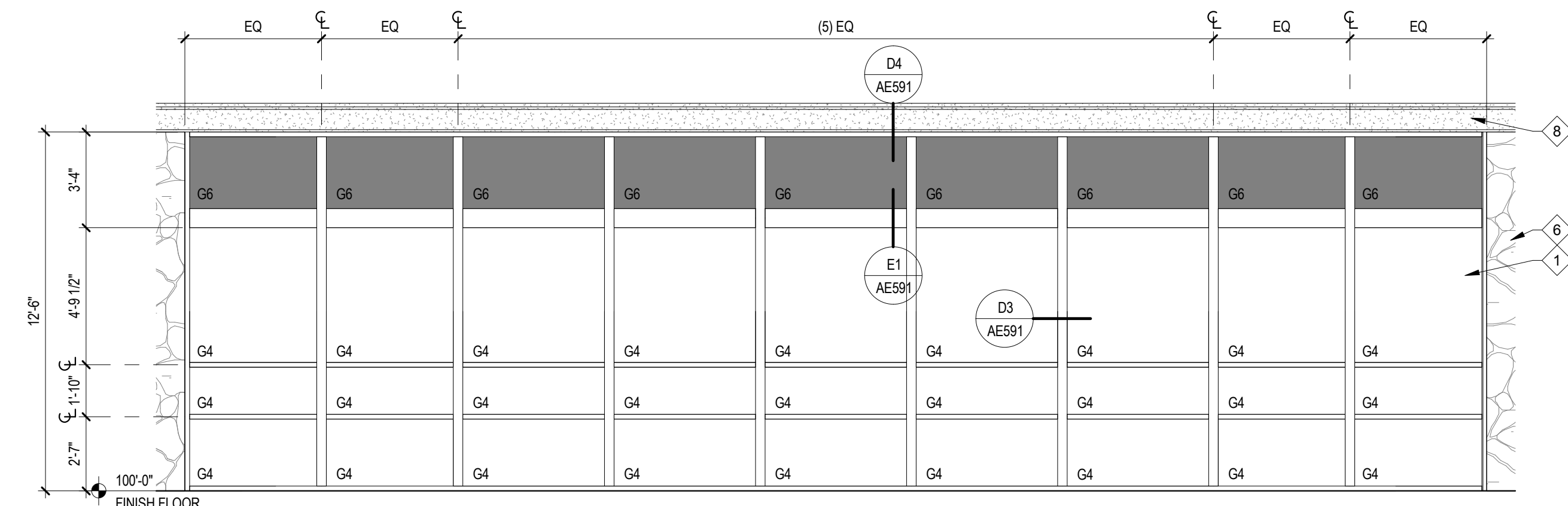
B3 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



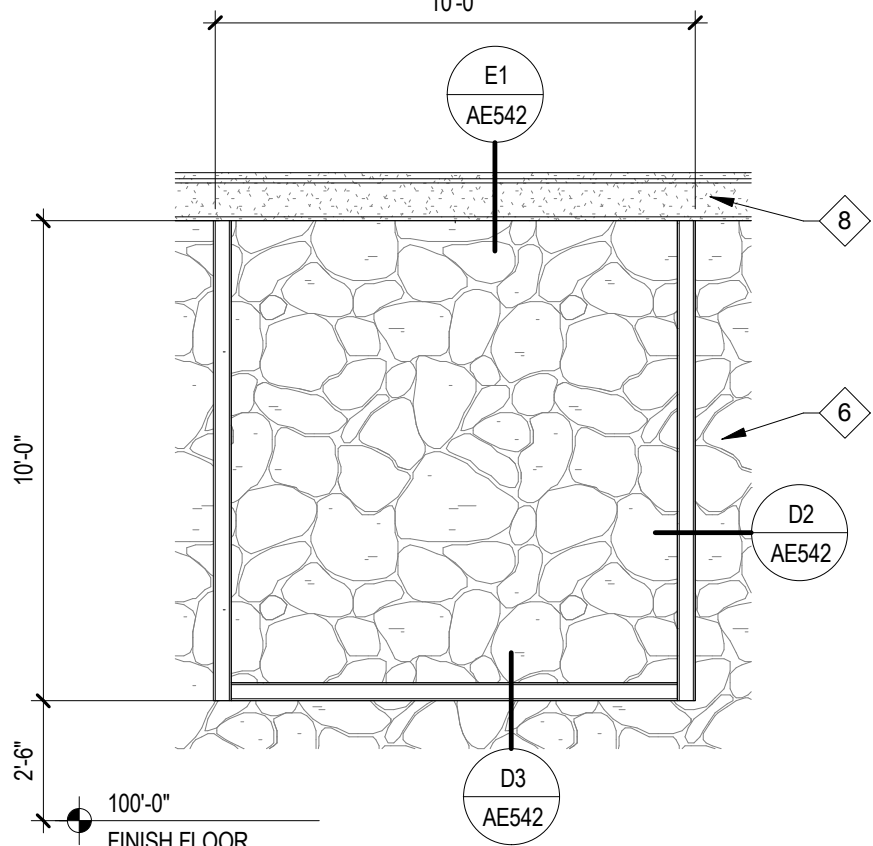
B2 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



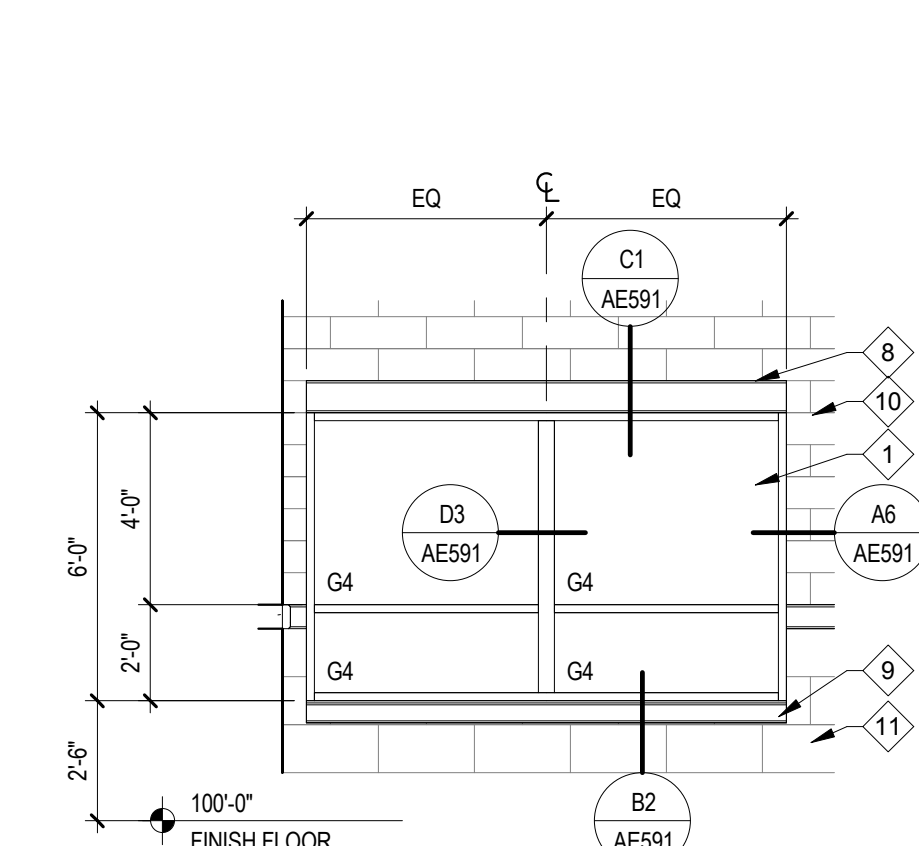
B1 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



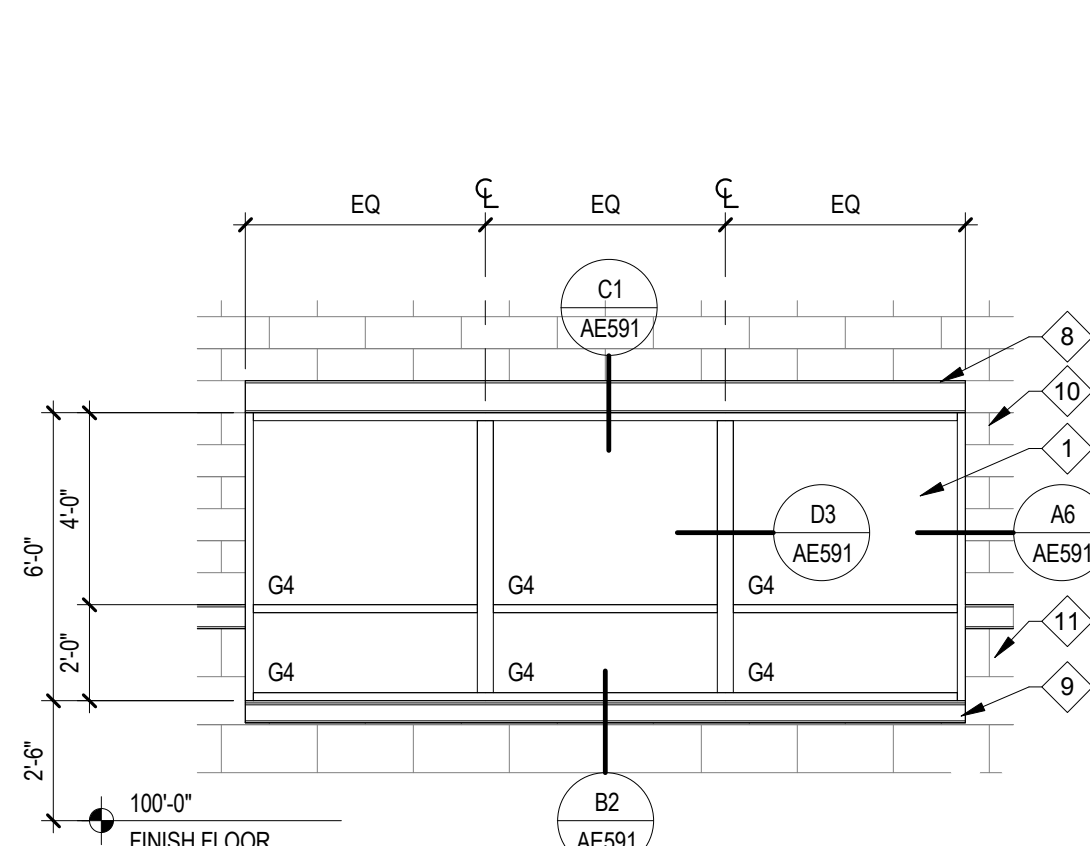
A6 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



A3 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



A2 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"



A1 ENLARGED ELEVATION  
AE211 SCALE 1/4" = 1'-0"

#### GENERAL NOTES:

1. ALL EXTERIOR GLAZING TO BE TYPE G4 UNLESS NOTED OTHERWISE. SEE SHEET AE801 FOR GLAZING SCHEDULE.

#### KEY NOTES:

- 1 ALUMINUM STOREFRONT SYSTEM
- 2 SCHEDULED DOOR AND FRAME
- 3 PRECAST CONCRETE ELEMENT
- 4 METAL ROOF PANEL SYSTEM
- 5 METAL WALL PANEL SYSTEM, COMPLY WITH A1/AE542, A2/AE542, & B1/AE542
- 6 STONE VENEER
- 7 SHEET METAL FLASHING
- 8 PRE-CAST CONCRETE LINTEL
- 9 PRE-CAST CONCRETE SILL
- 10 8" HIGH MANUFACTURED STONE MASONRY VENEER
- 11 12" HIGH MANUFACTURED STONE MASONRY VENEER
- 12 ALUMINUM CURTAINWALL SYSTEM
- 13 DOUBLE PANE INSULATED GLASS PANEL WITH CLEAR INNER PANE AND STAINED GLASS EXTERIOR PANE WITH KAYSVILLE CITY POLICE STAR SYMBOL. STAR SYMBOL SHOWN IS APPROXIMATE. SEE SPECIFICATION SECTION 012100 FOR ALLOWANCE.
- 14 10 INCH HIGH LETTERS; SILKSCREENED ON OUTSIDE PANE, COLOR: GOLD W/ BLACK OUTLINE.
- 15 TS CANOPY NOT SHOWN FOR CLARITY
- 16 1 INCH HIGH LETTERS; SILKSCREENED ON OUTSIDE PANE, COLOR: WHITE; MESSAGE/TEXT:

\*KAYSVILLE CITY POLICE DEPARTMENT  
FOR EMERGENCIES CALL 911

ADMINISTRATIVE OFFICE HOURS:  
MONDAY - FRIDAY 8:00 AM - 5:00 PM  
SATURDAY 8:00 AM - 1:00 PM  
SUNDAYS CLOSED

- 17 METAL WALL PANEL SYSTEM, COMPLY WITH A1/AE542, A2/AE542 & B1/AE542
- 18 PRE-CAST ELEMENT JOINT
- 19 ROOF MANUFACTURERS STANDARD PARAPET RAKE DETAIL WITH COUNTER FLASHING
- 20 METAL WALL PANEL VERTICAL JOINT @ 16" O.C. MAX.; COMPLY WITH A2/AE542

#### GLAZING SCHEDULE

|    |                                                   |
|----|---------------------------------------------------|
| G1 | 1/4" CLEAR - TEMPERED                             |
| G2 | 1/4" CLEAR                                        |
| G3 | 1" INSULATED - TEMPERED                           |
| G4 | 1" INSULATED                                      |
| G5 | 3/8" LAMINATED                                    |
| G6 | 1" INSULATED SPANDREL                             |
| G7 | 1/4" PATTERN GLASS                                |
| G8 | SECURITY GLAZING, CLEAR, SEE SPEC. SECTION 111900 |

#### KAYSVILLE CITY POLICE STATION

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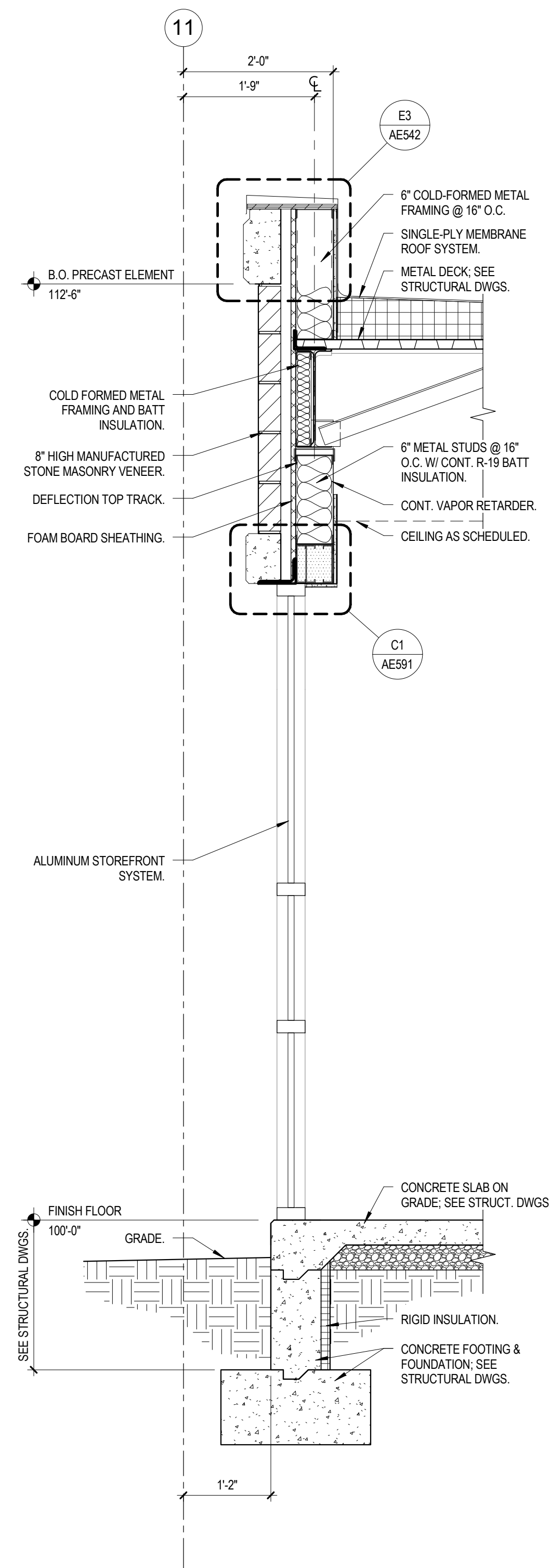
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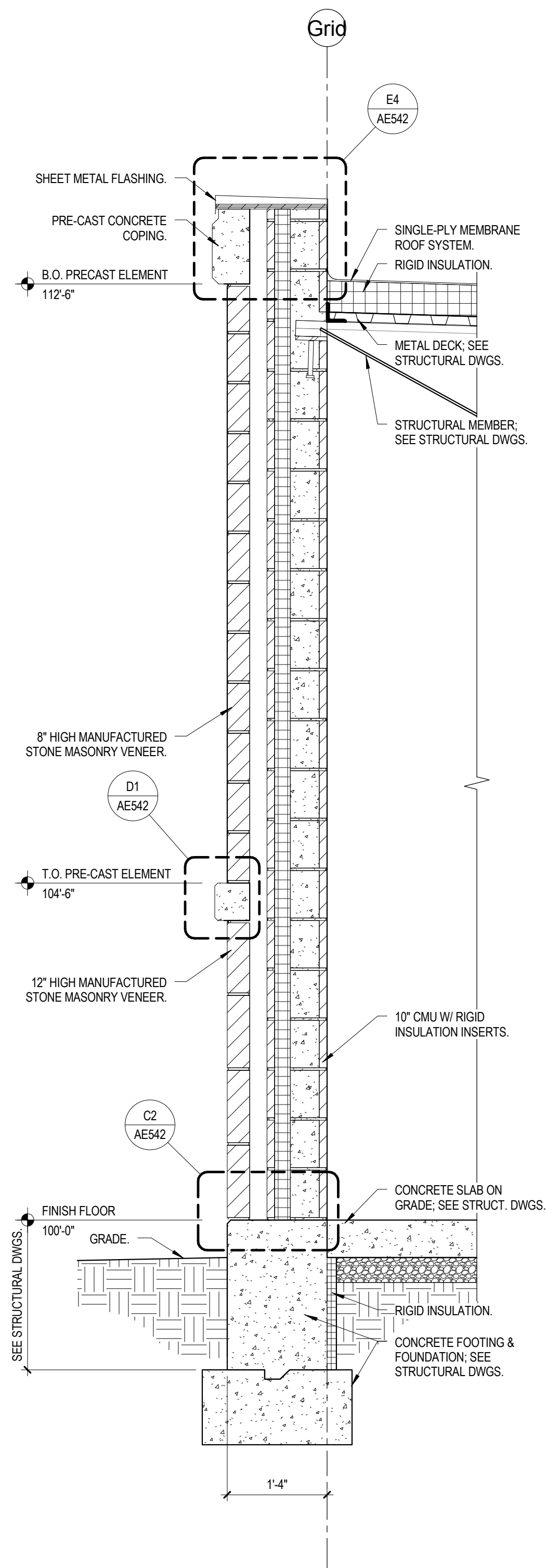
ENLARGED  
EXTERIOR  
ELEVATIONS

AE211

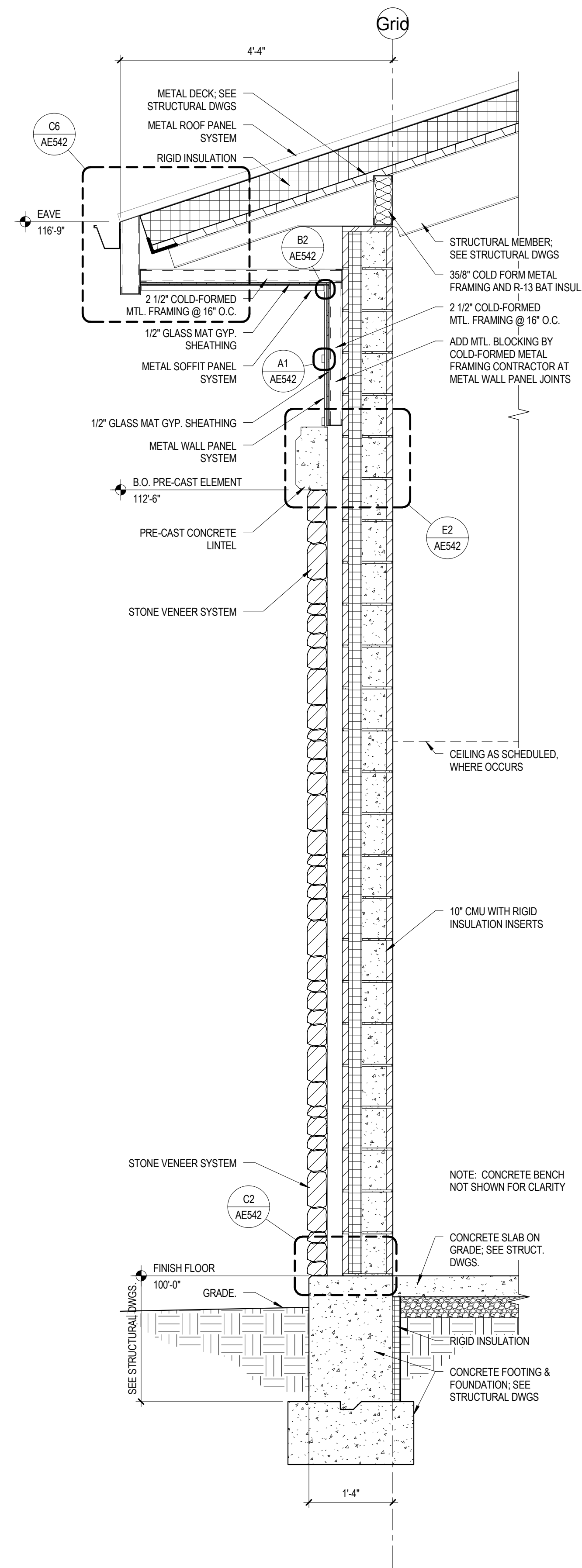




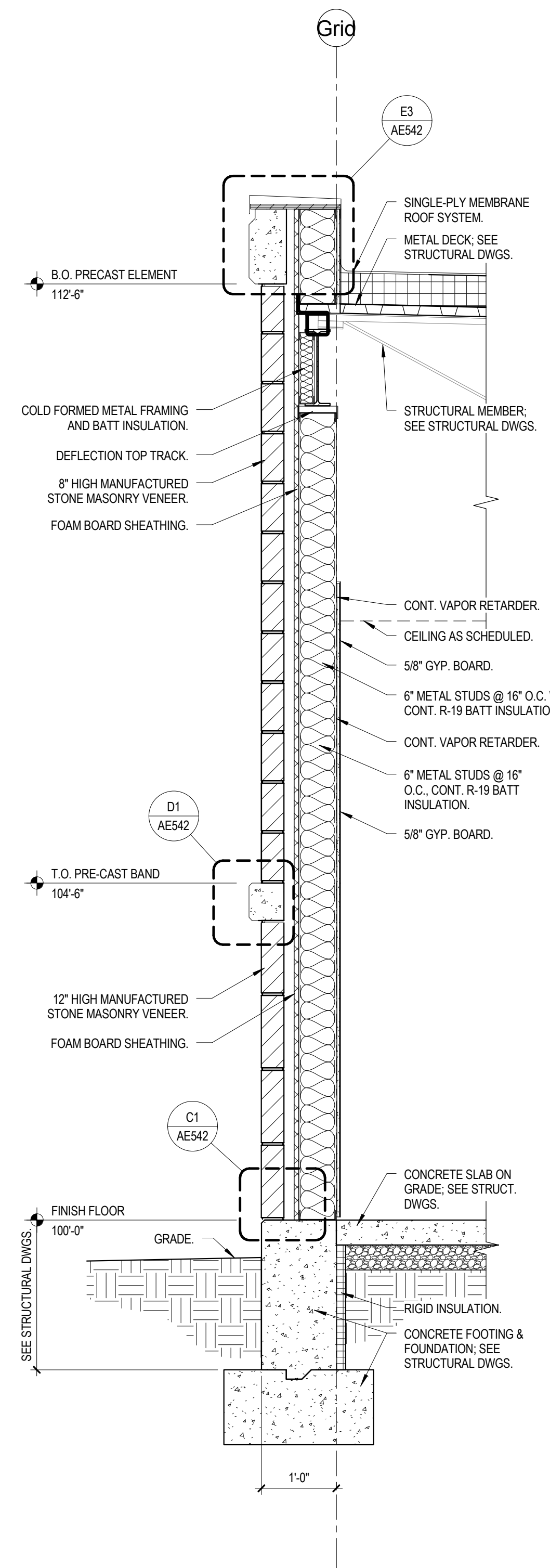
A6 WALL SECTION  
AE351 SCALE 3/4" = 1'-0"



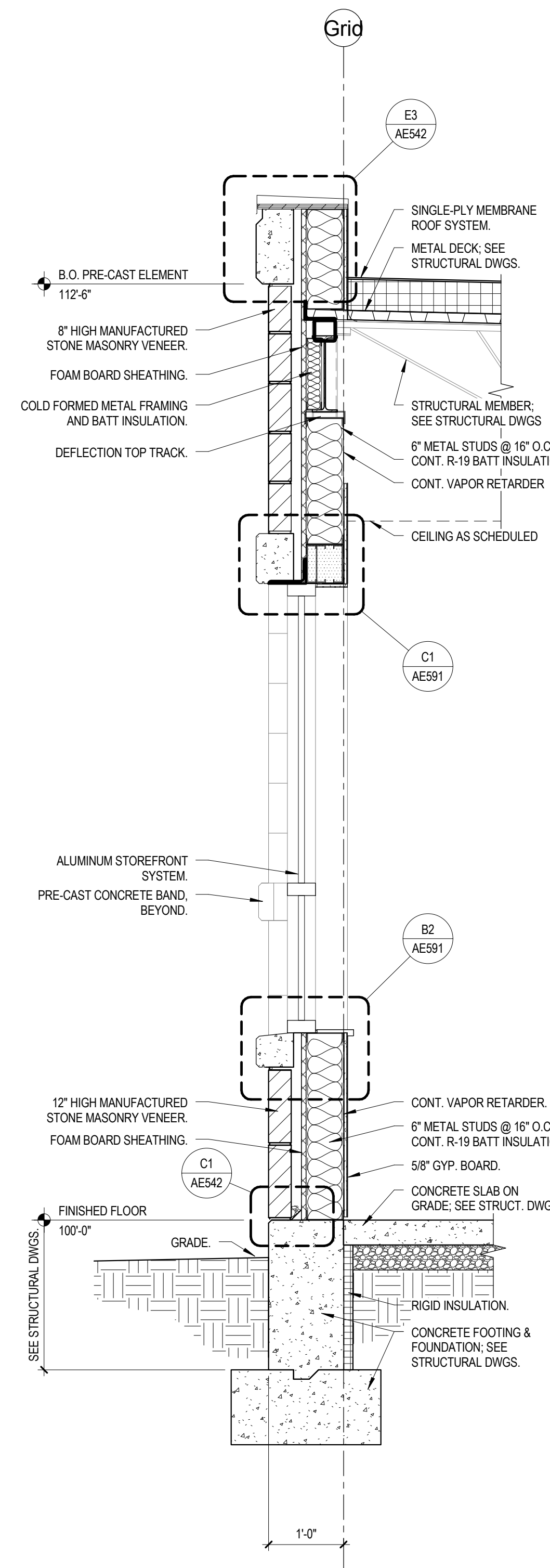
A5 WALL SECTION  
AE351 SCALE 3/4" = 1'-0"



A4 WALL SECTION  
AE351 SCALE 3/4" = 1'-0"



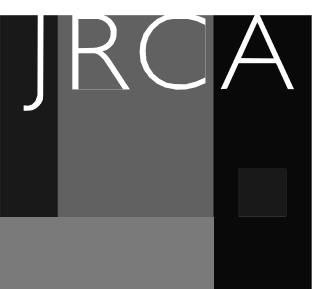
A2 WALL SECTION  
AE351 SCALE 3/4" = 1'-0"



A1 WALL SECTION  
AE351 SCALE 3/4" = 1'-0"

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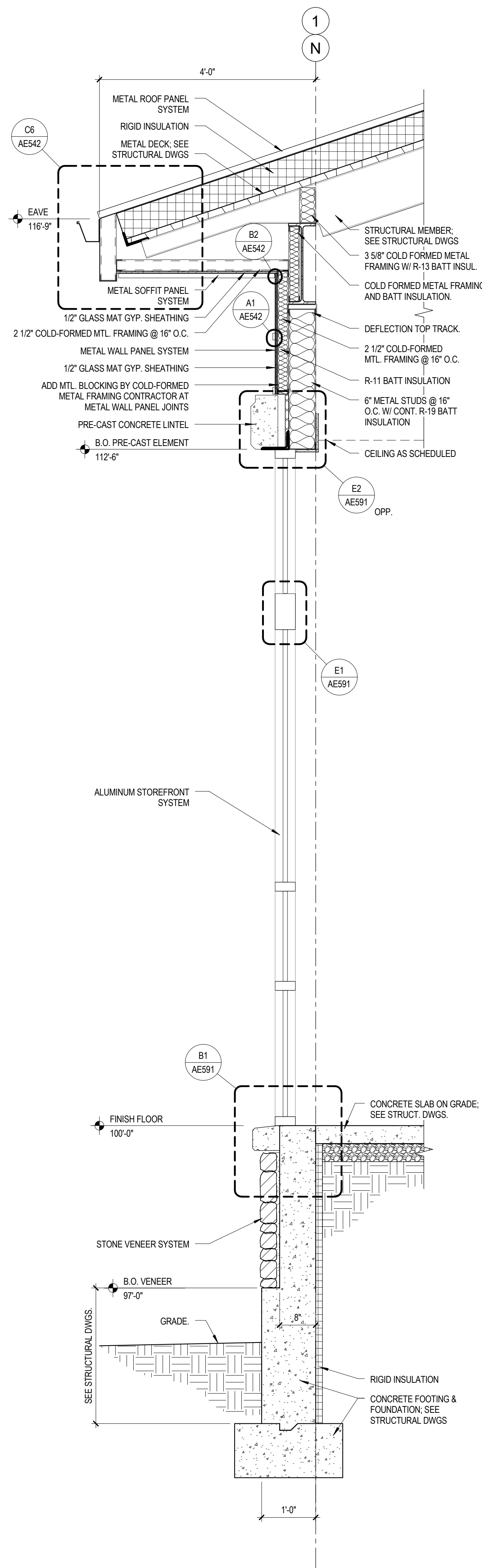
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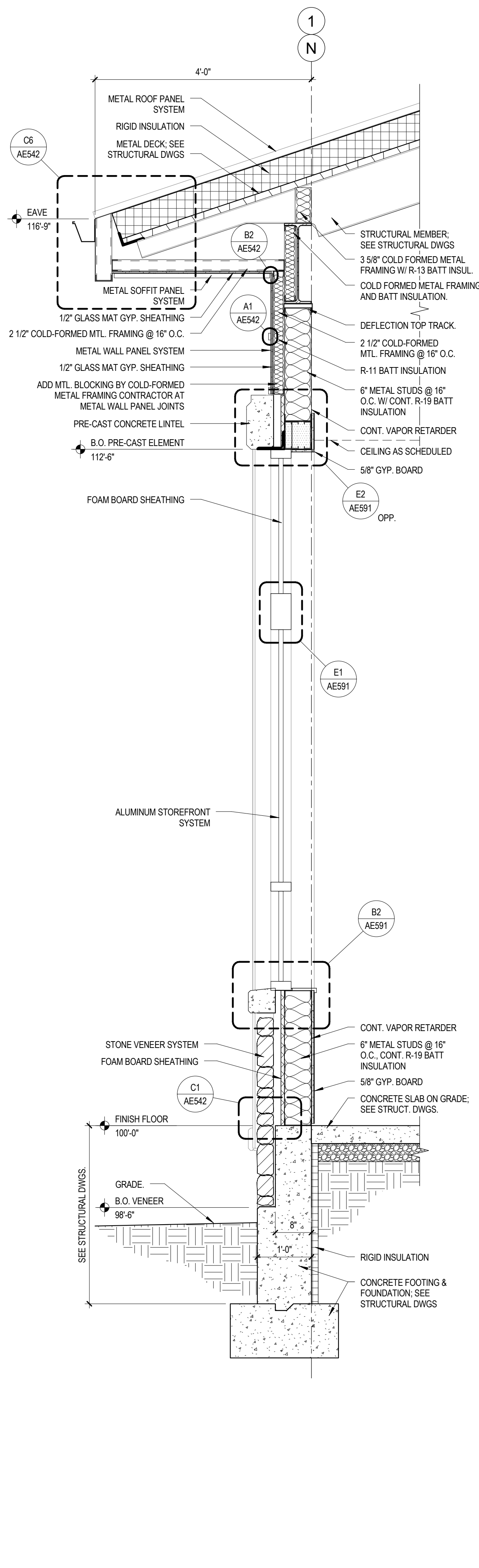
WALL SECTIONS

AE351

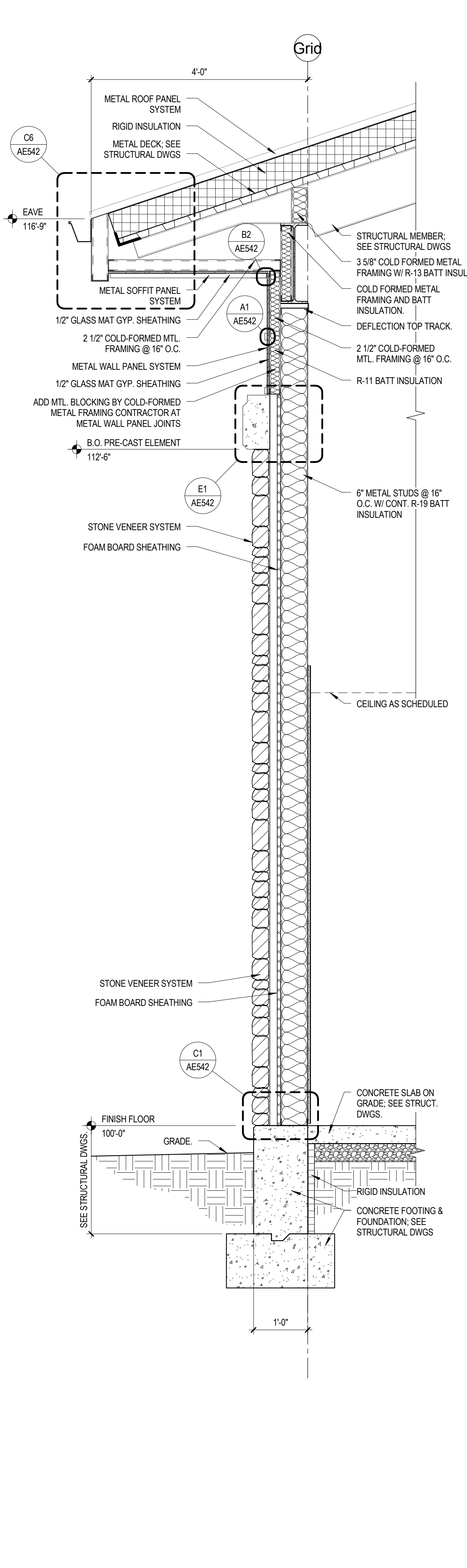




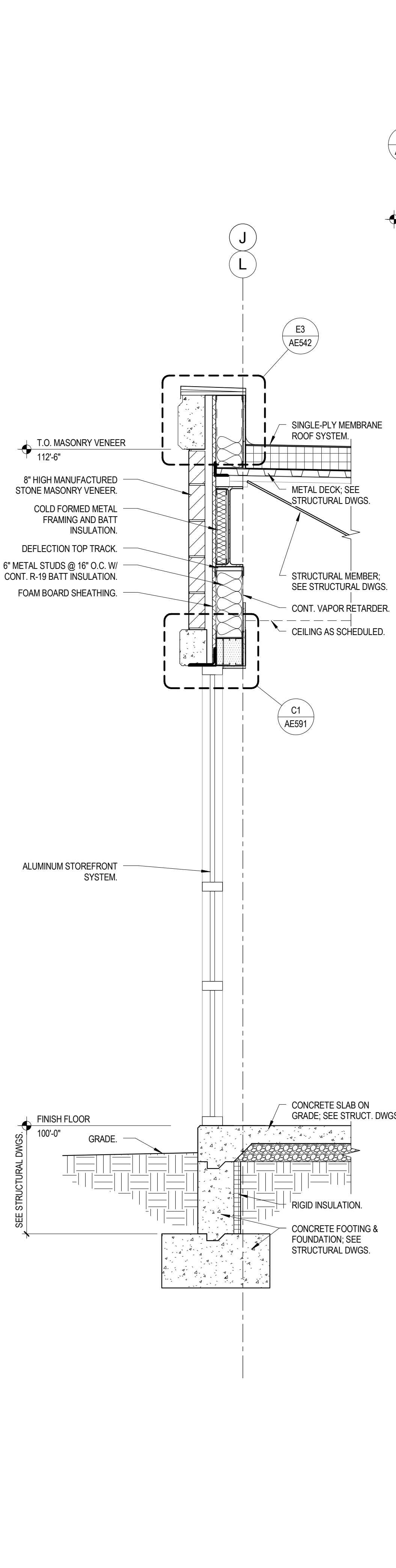
A6 WALL SECTION  
SCALE 3/4" = 1'-0"



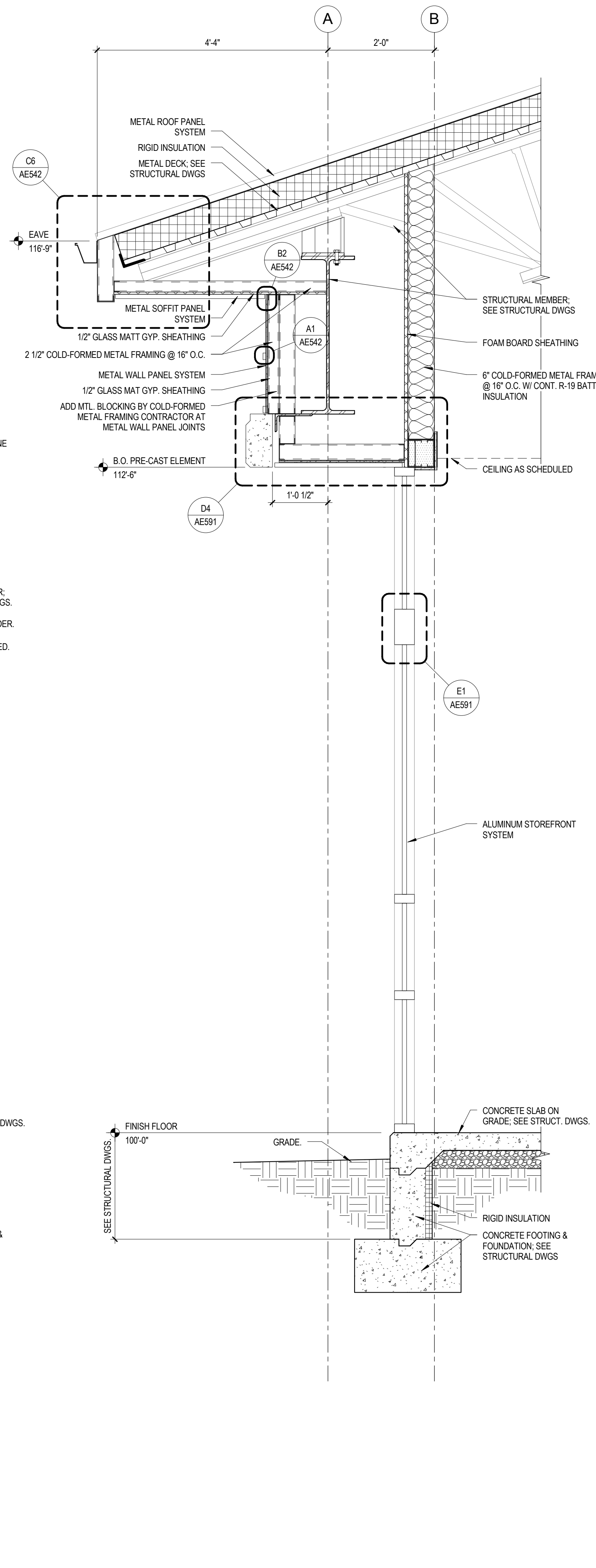
A5 WALL SECTION  
SCALE 3/4" = 1'-0"



A4 WALL SECTION  
SCALE 3/4" = 1'-0"



A3 WALL SECTION  
SCALE 3/4" = 1'-0"



A2 WALL SECTION  
SCALE 3/4" = 1'-0"

# KAYSVILLE CITY POLICE STATION

KAYSVILLE, UTAH



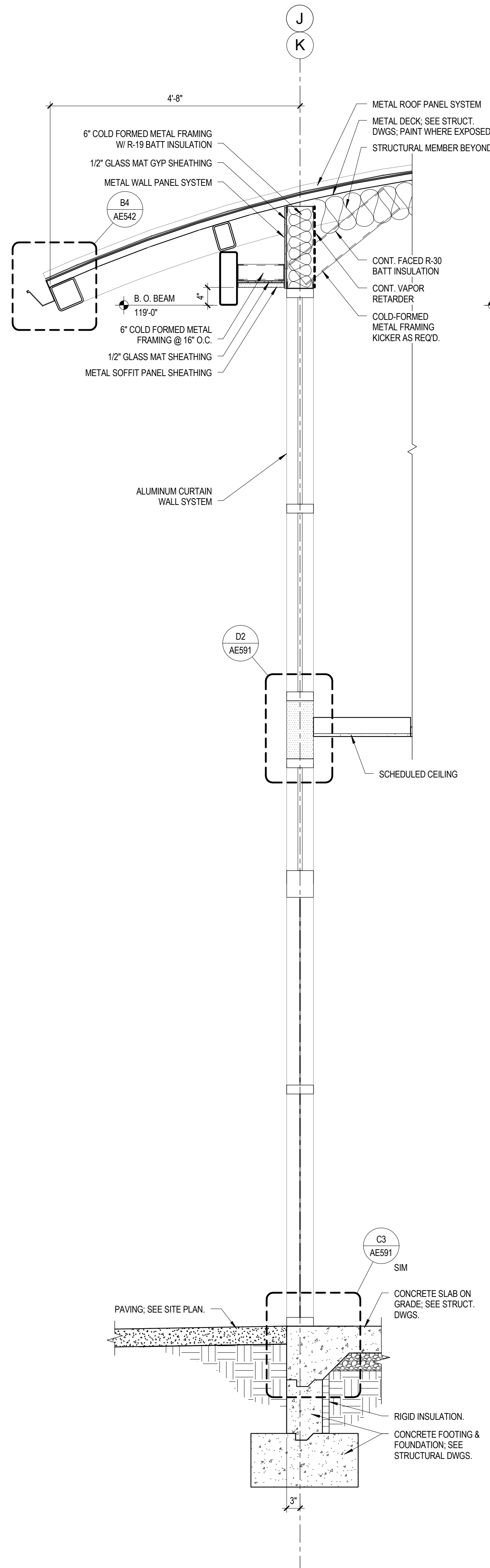
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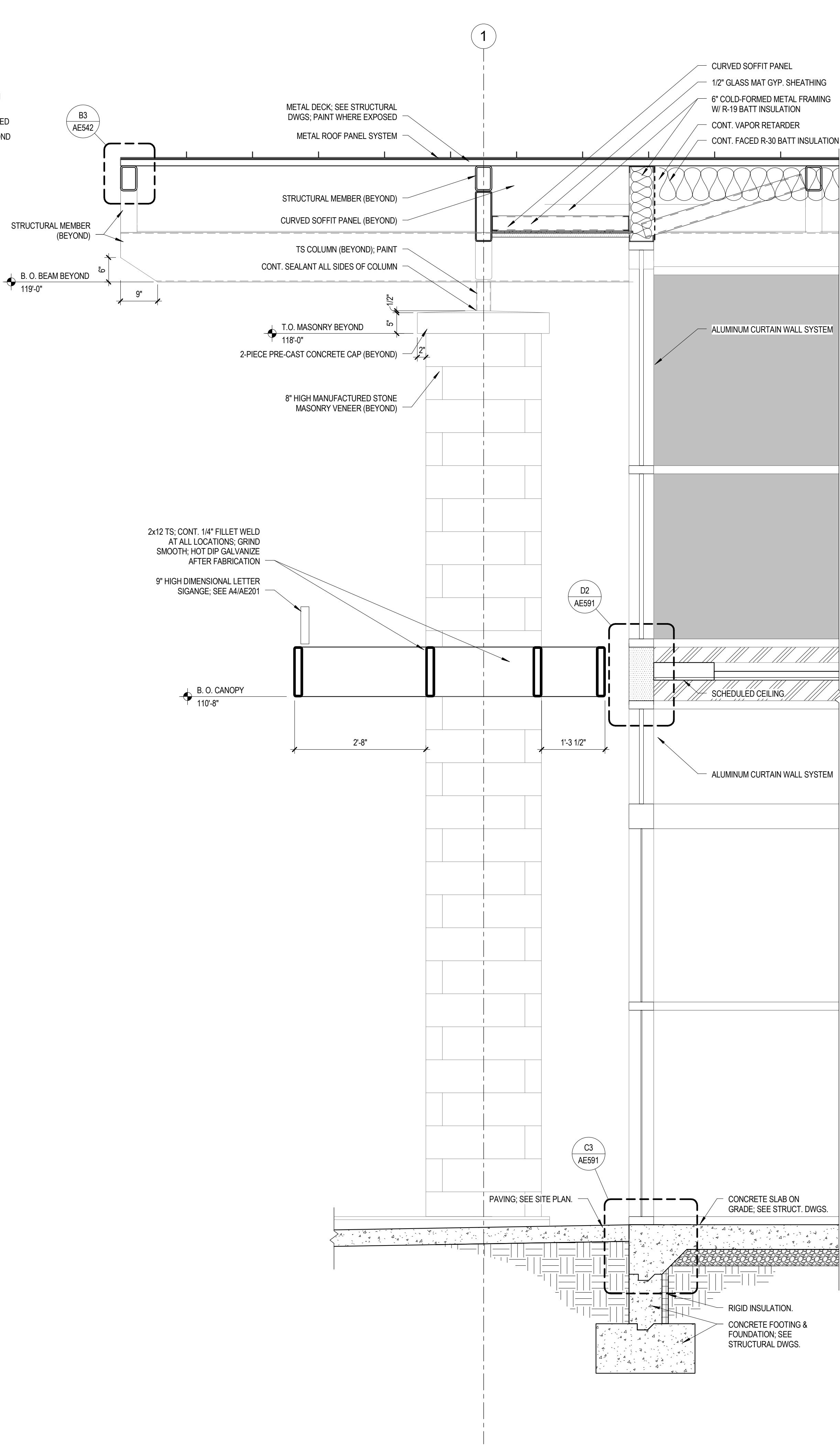
WALL SECTIONS

AE352

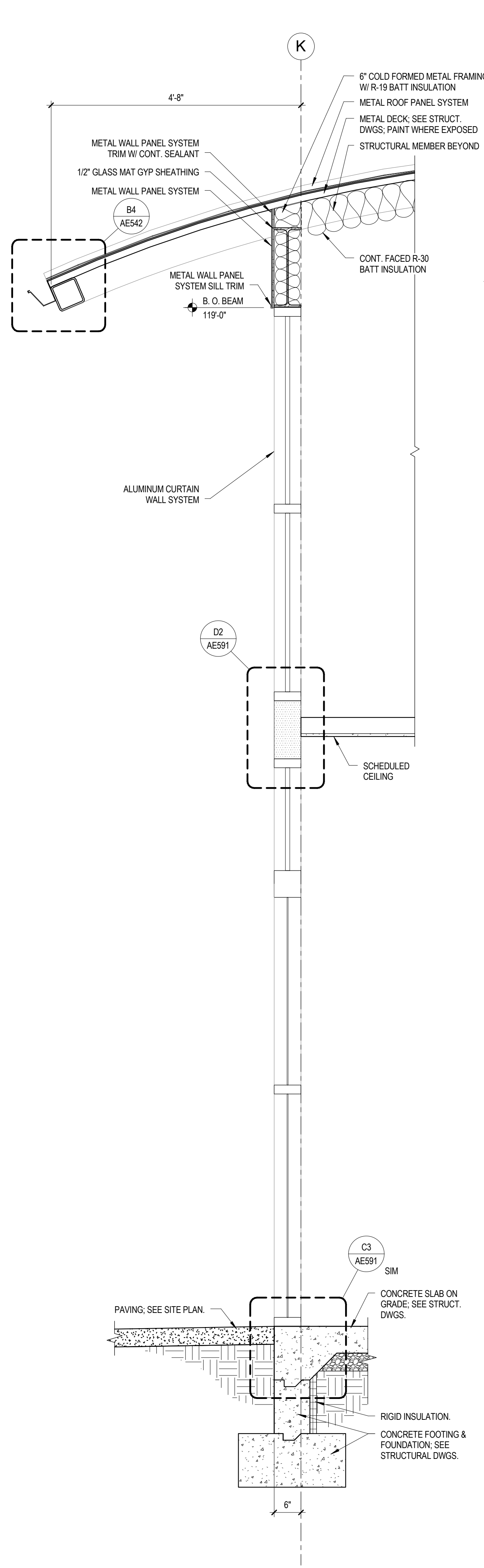




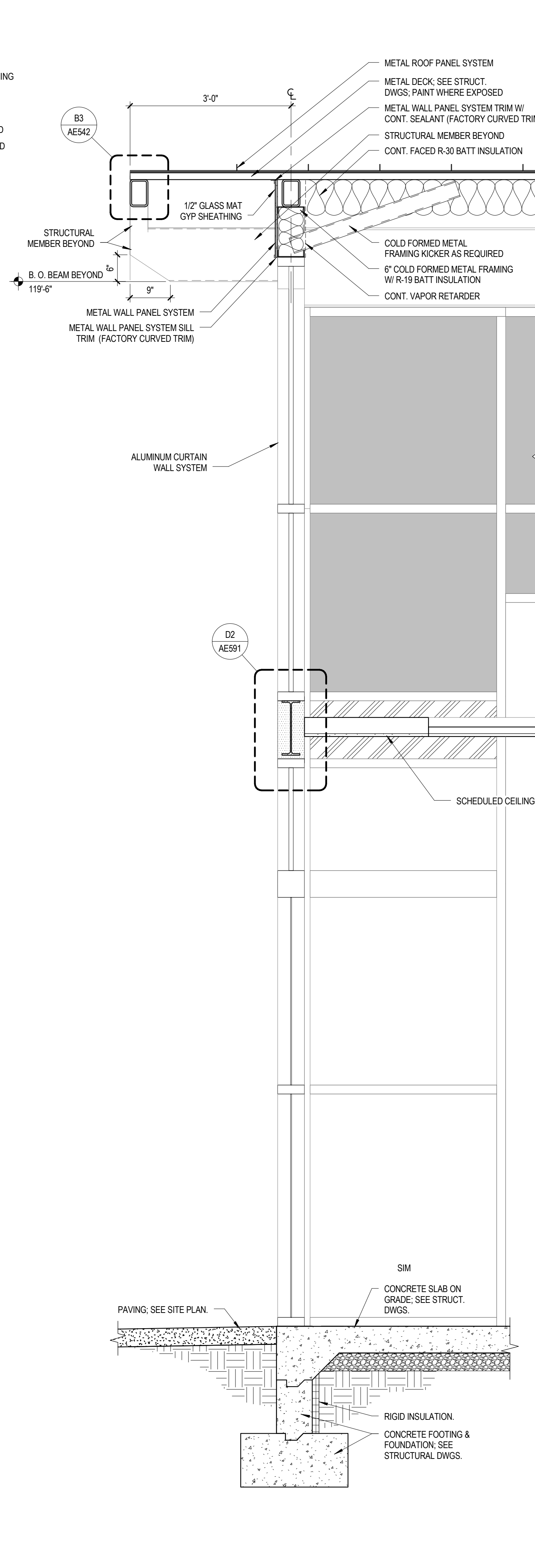
A6 WALL SECTION  
SCALE 3/4" = 1'-0"



A5 WALL SECTION  
SCALE 3/4" = 1'-0"



A3 WALL SECTION  
SCALE 3/4" = 1'-0"



A2 WALL SECTION  
SCALE 3/4" = 1'-0"

KAYSVILLE CITY POLICE  
STATION

KAYSVILLE, UTAH



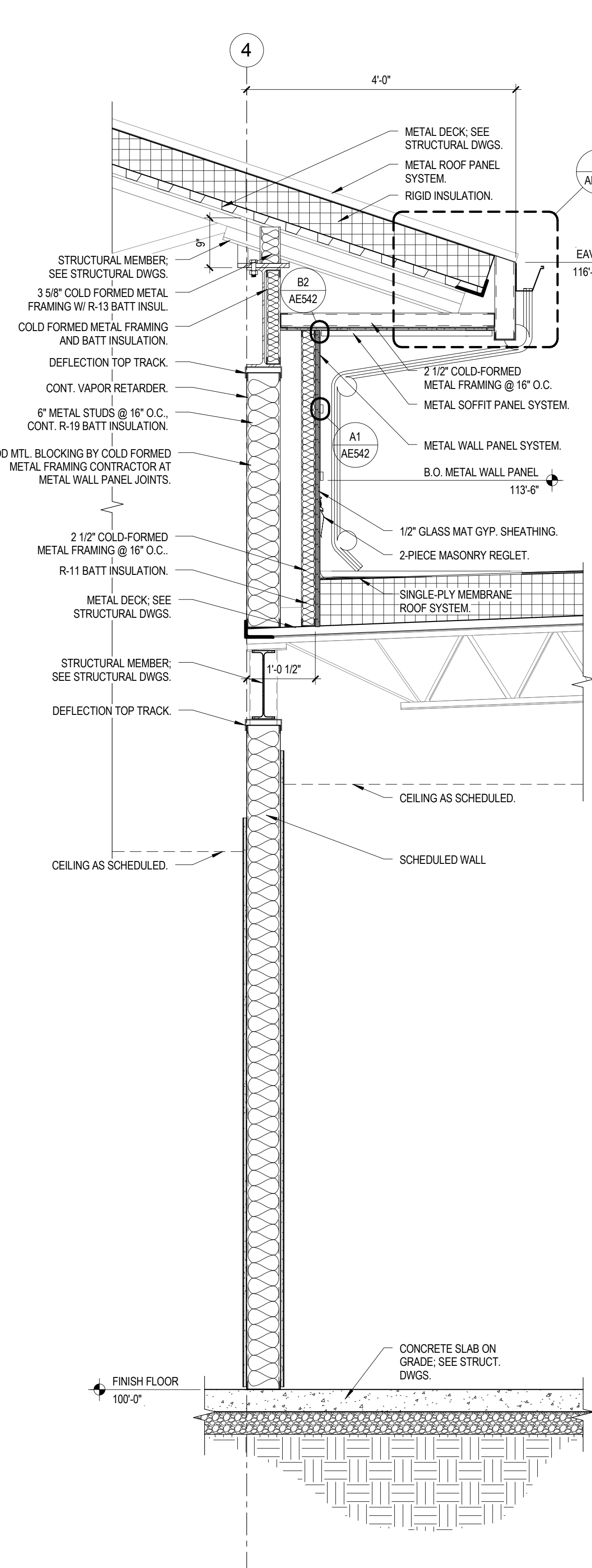
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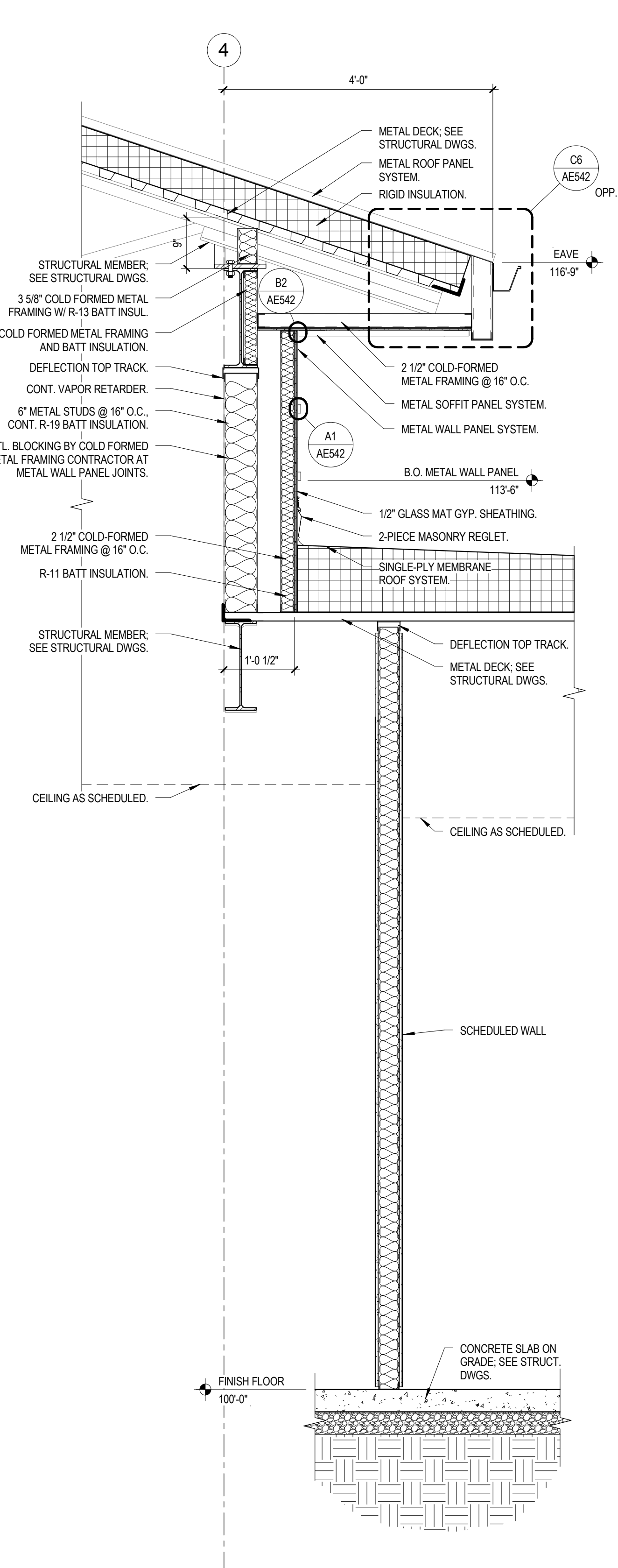
WALL SECTIONS

AE353

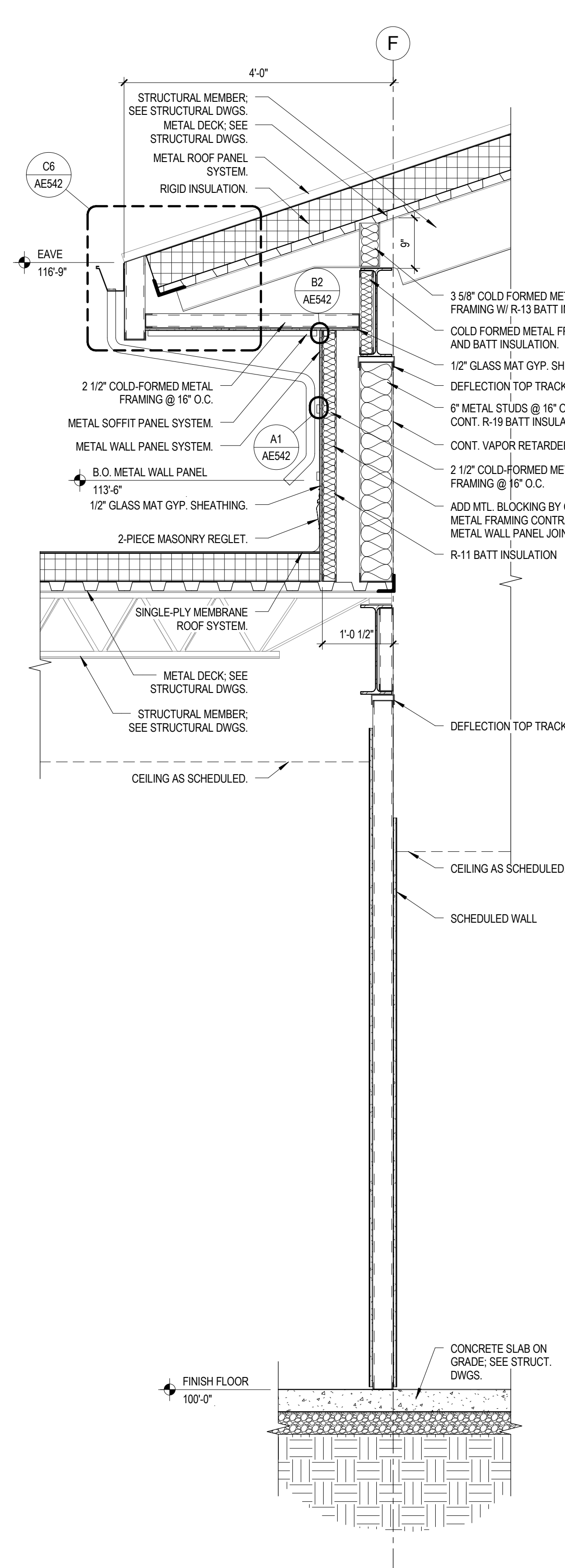




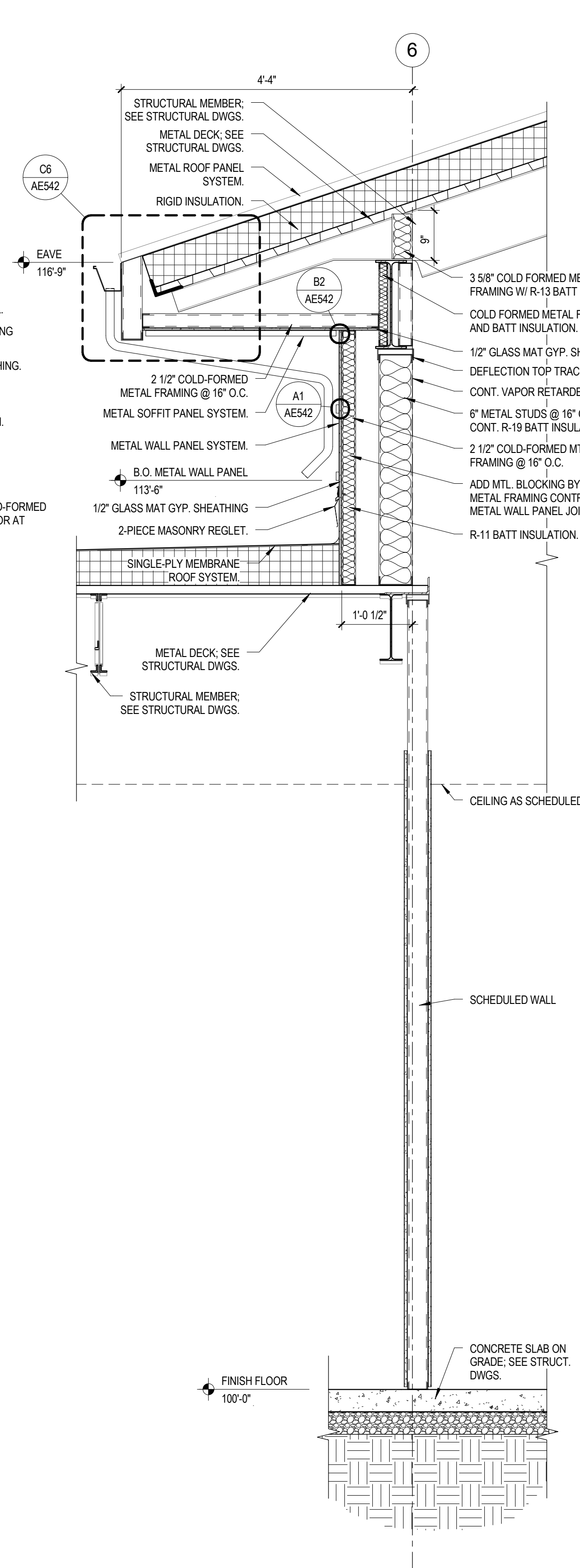
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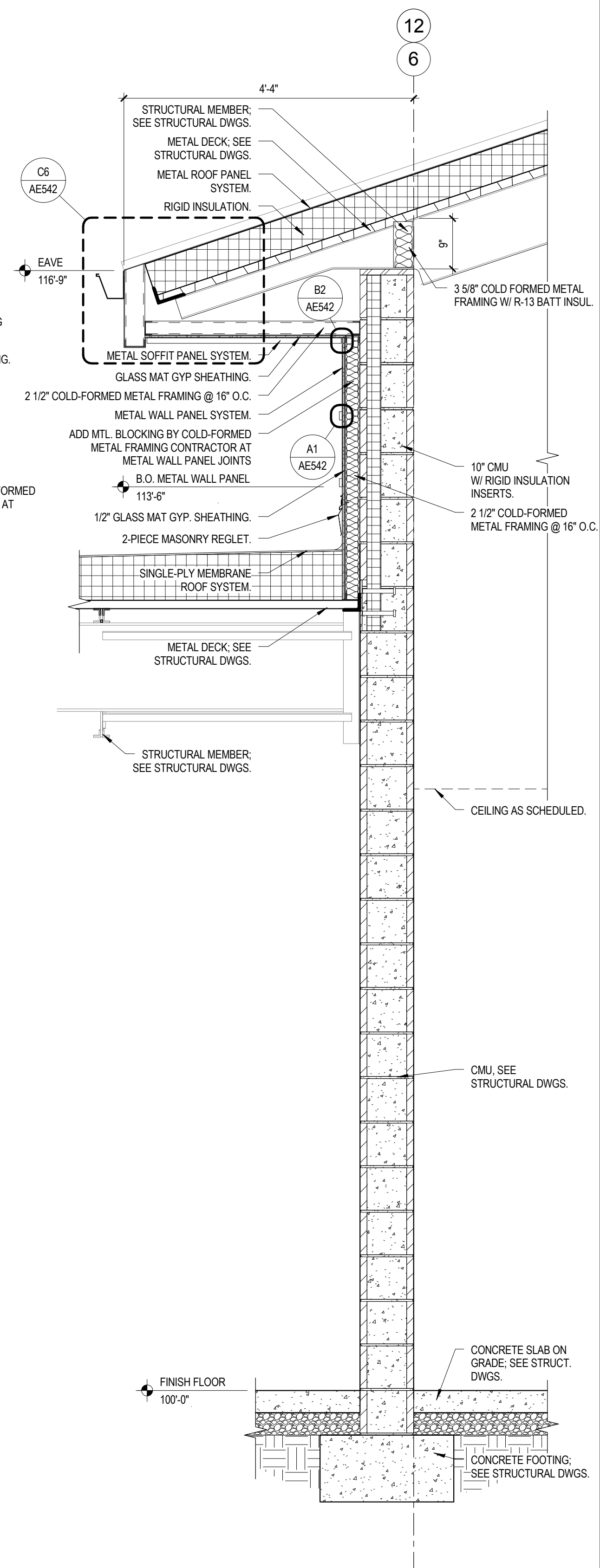
A5 WALL SECTION  
SCALE 3/4" = 1'-0"



A3 WALL SECTION  
SCALE 3/4" = 1'-0"



A2 WALL SECTION  
SCALE 3/4" = 1'-0"



A1 WALL SECTION  
SCALE 3/4" = 1'-0"

## KAYSVILLE CITY POLICE STATION

KAYSVILLE, UTAH



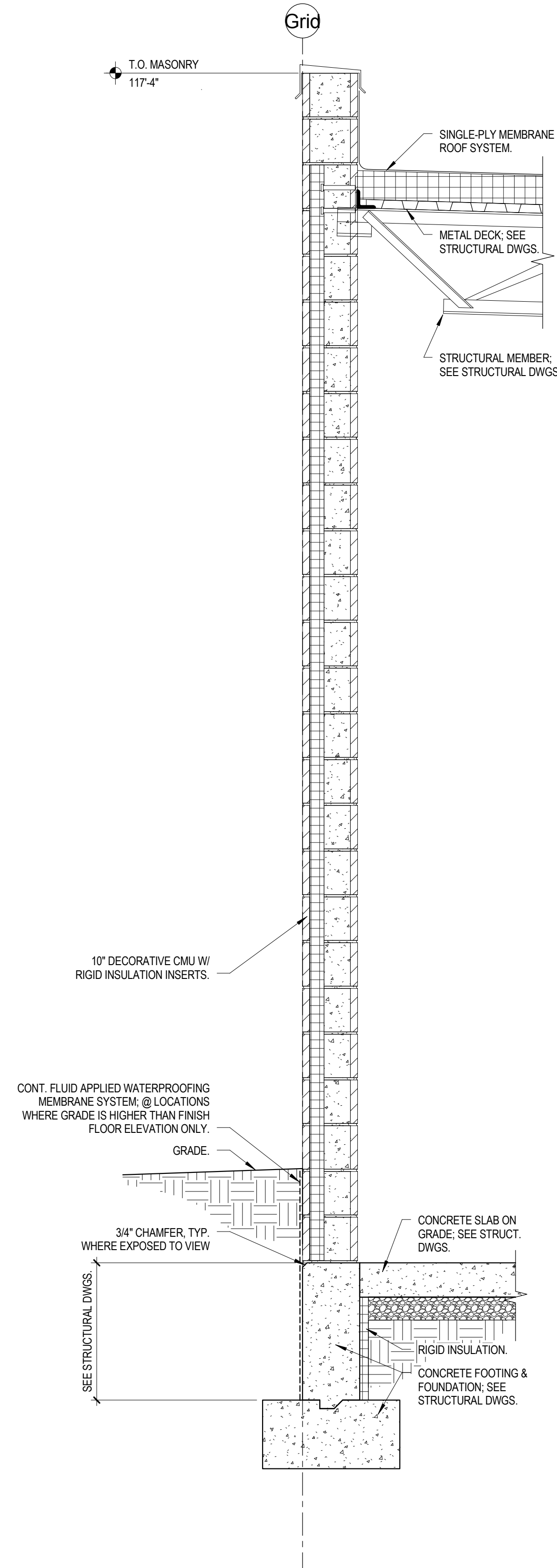
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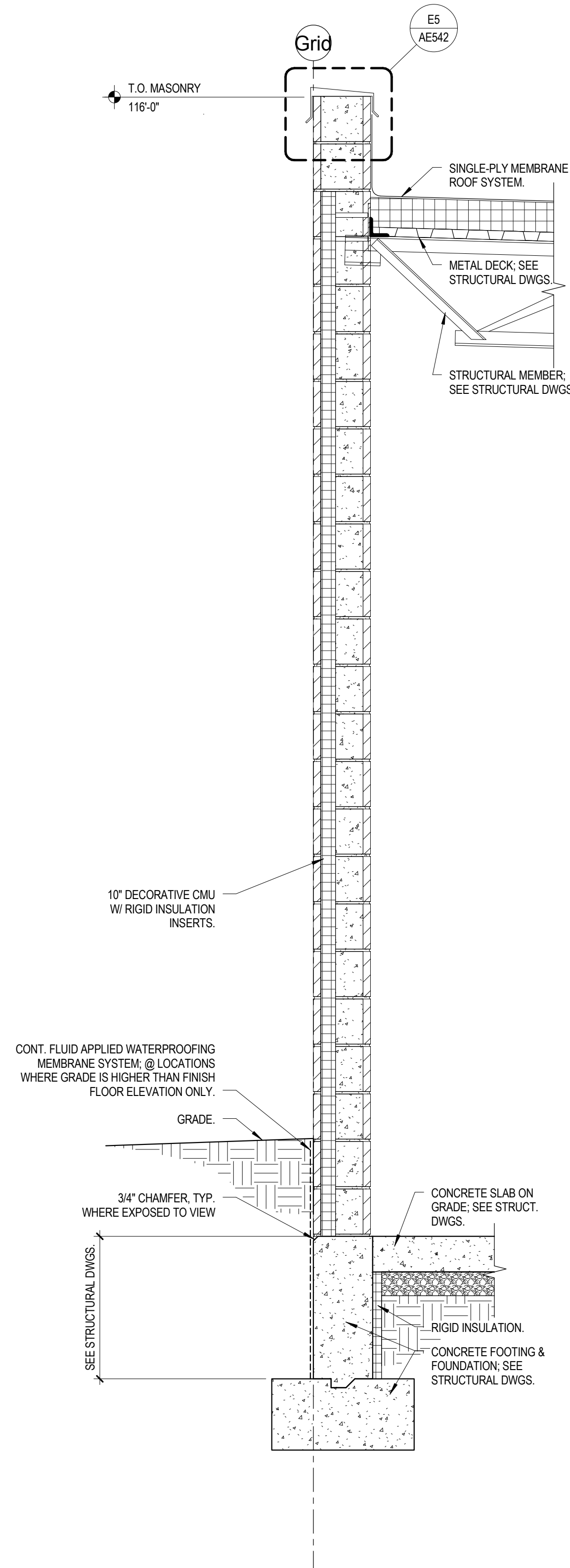
WALL SECTIONS

AE354

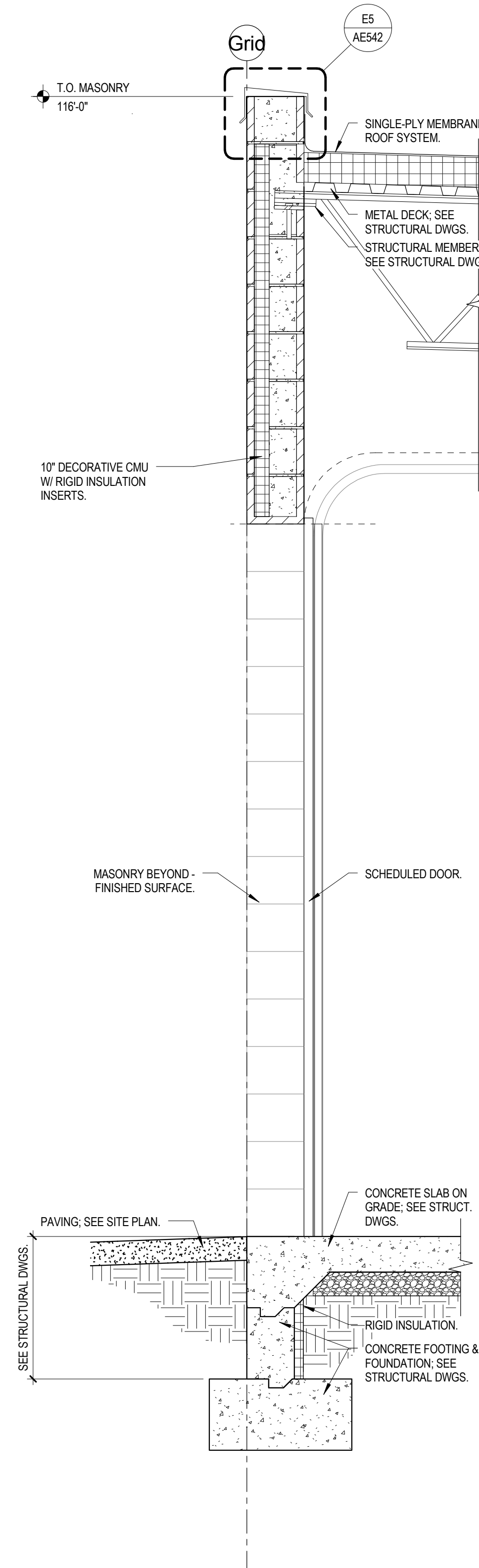




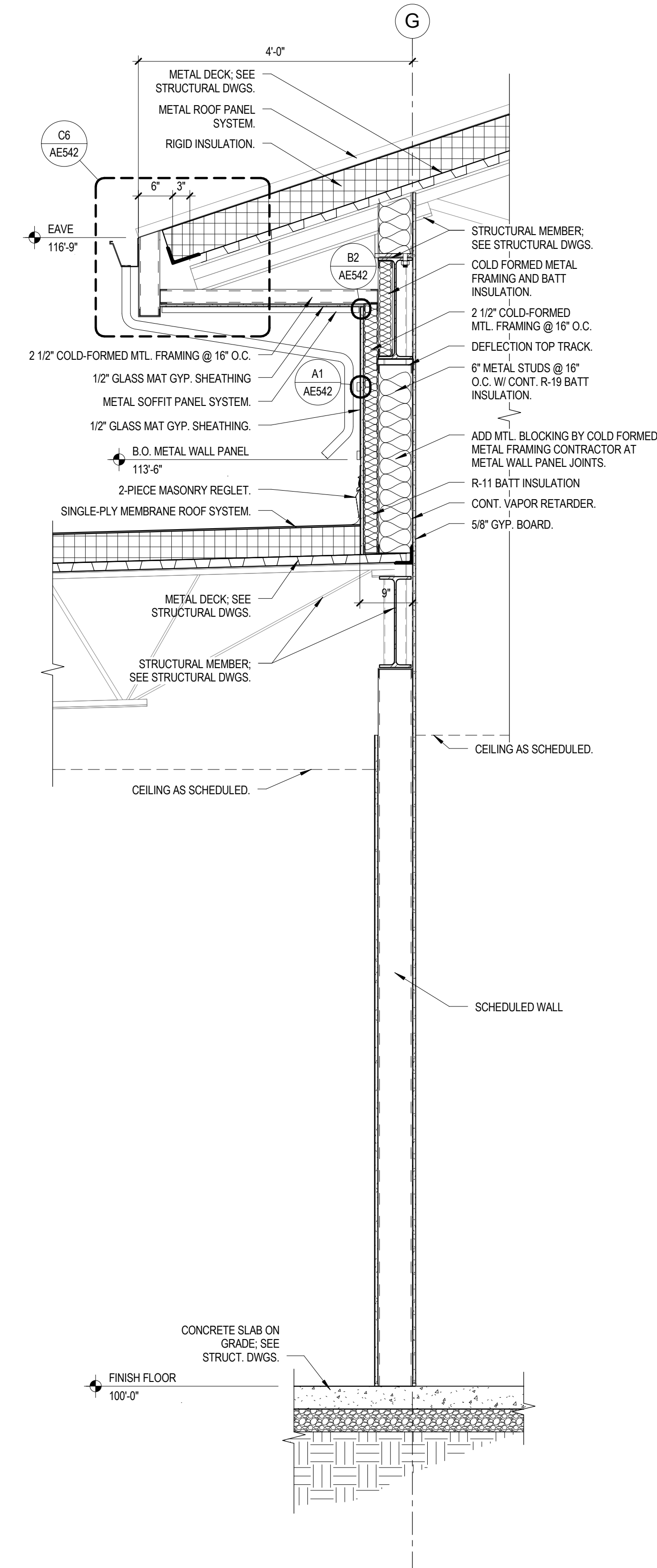
A4  
AE355  
WALL SECTION  
SCALE 3/4" = 1'-0"



A3  
AE355  
WALL SECTION  
SCALE 3/4" = 1'-0"



A2  
AE355  
WALL SECTION  
SCALE 3/4" = 1'-0"



A1  
AE355  
WALL SECTION  
SCALE 3/4" = 1'-0"

## KAYSVILLE CITY POLICE STATION

KAYSVILLE, UTAH



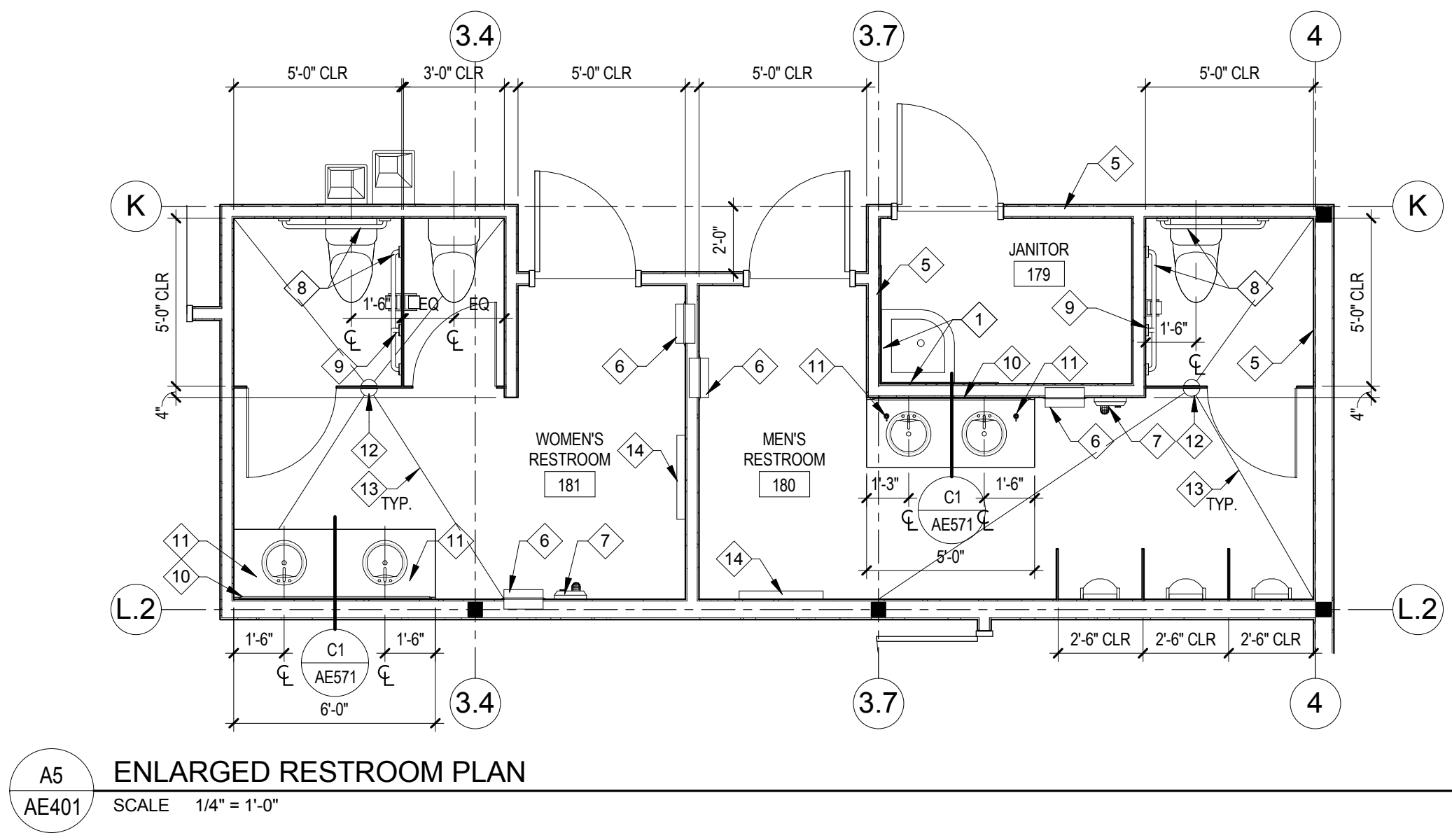
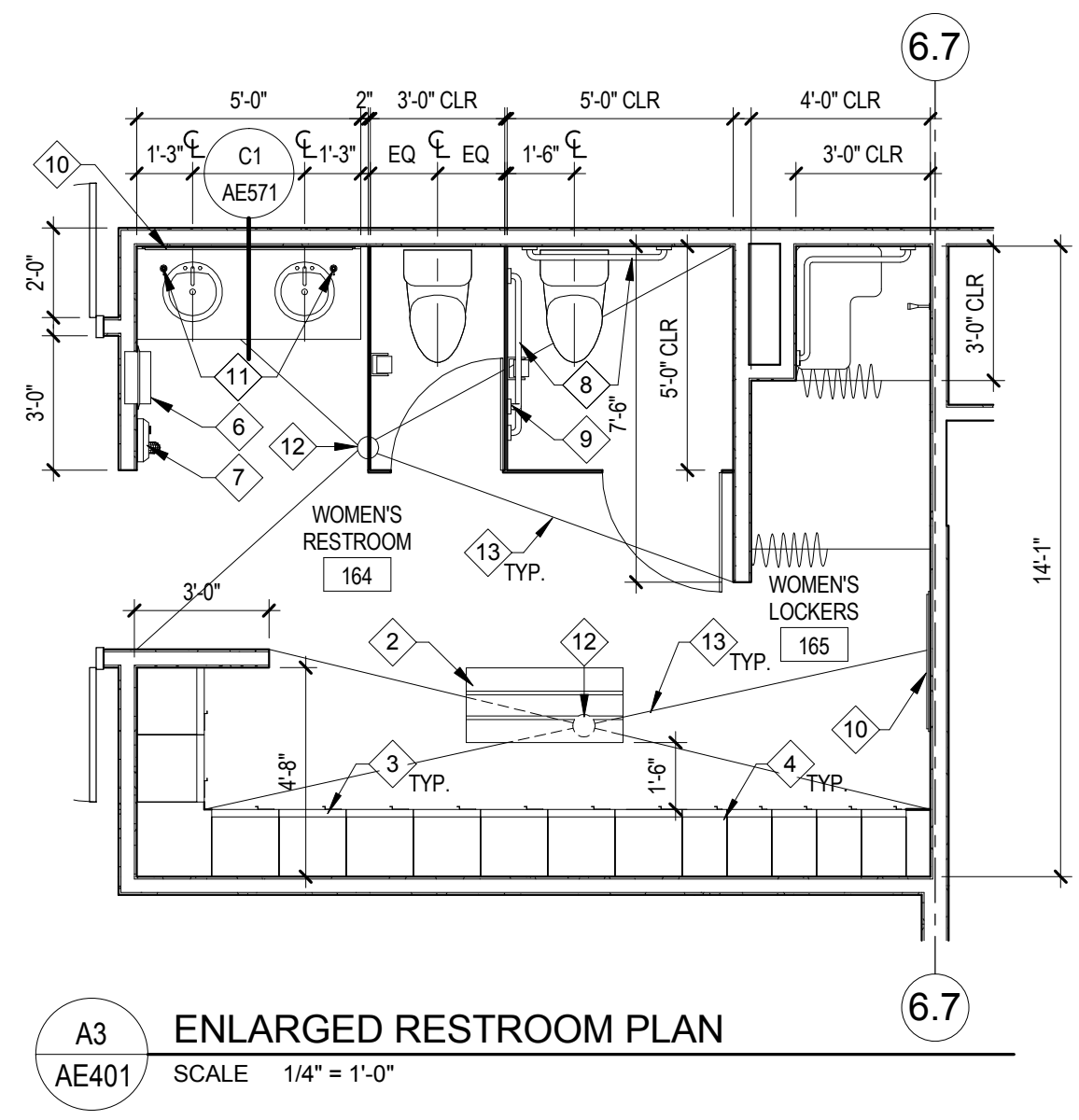
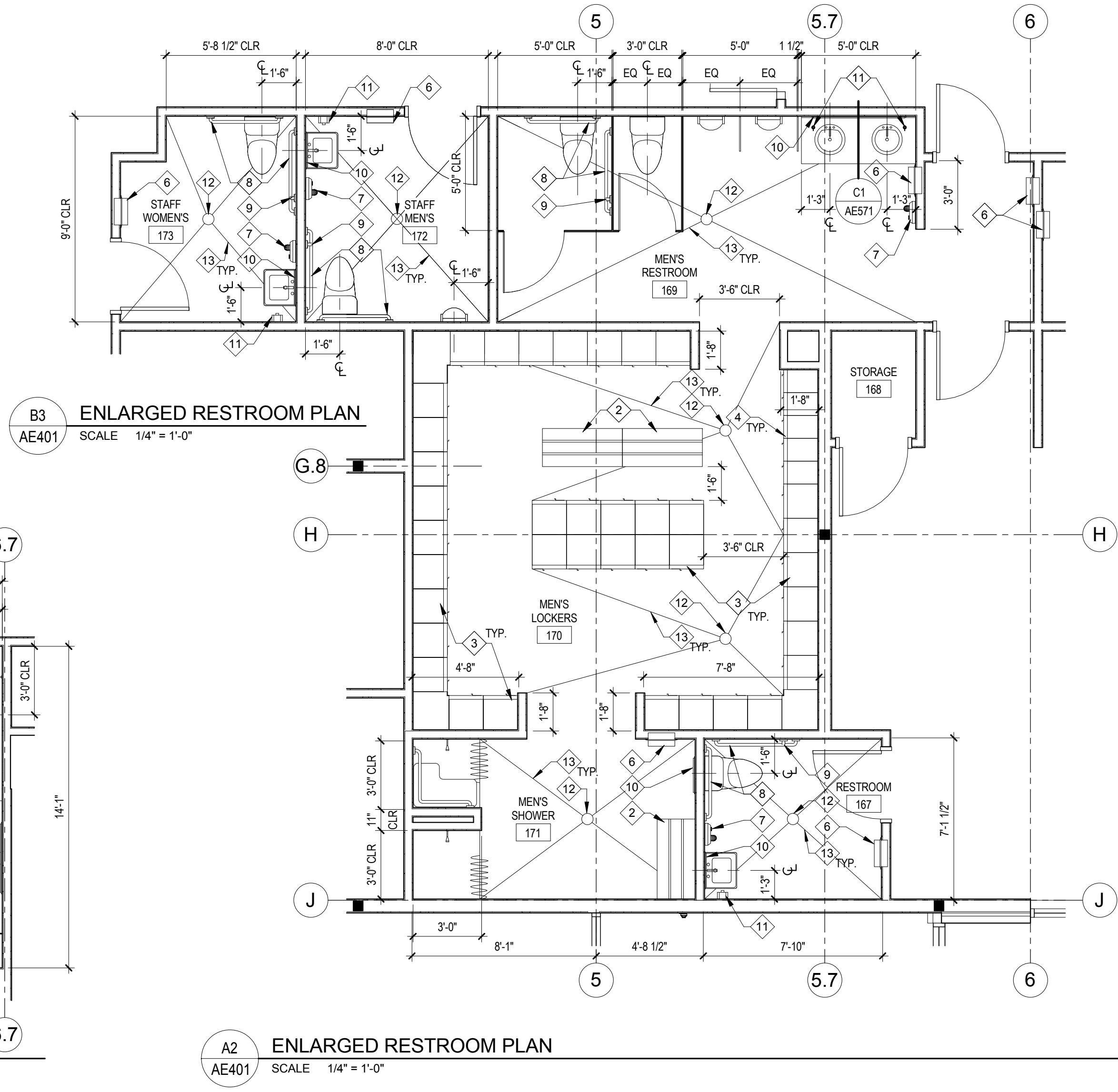
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WALL SECTIONS

AE355





GENERAL NOTES:

1. PROVIDE BACKING FOR PAPER TOWEL DISPENSER (DISPENSER NIC) ABOVE ALL TRASH RECEPTACLES

KEY NOTES:

- 1 3'-6" x 3'-6" AREA OF WALL TILE ON TWO WALLS IMMEDIATELY ADJACENT TO JANITOR SINK
- 2 BENCH BY LOCKER MANUFACTURER
- 3 18" x 18" SINGLE TIER WOOD LOCKER
- 4 12" WIDE x 18" DEEP DOUBLE TIER WOOD LOCKER
- 5 FACE OF STUD ON GRID
- 6 TRASH RECEPTACLE
- 7 WARM AIR HAND DRYER
- 8 42" AND 36" GRAB BARS
- 9 18" VERTICAL GRAB BAR
- 10 MIRROR
- 11 SOAP DISPENSER
- 12 FLOOR DRAIN, SEE PLUMBING DRAWINGS
- 13 SLOPE TO DRAIN
- 14 DIAPER CHANGING STATION

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ENLARGED FLOOR PLANS

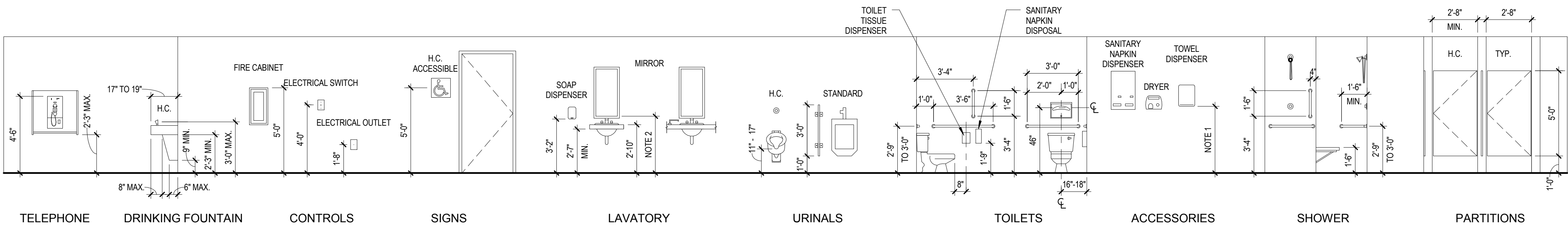
AE401



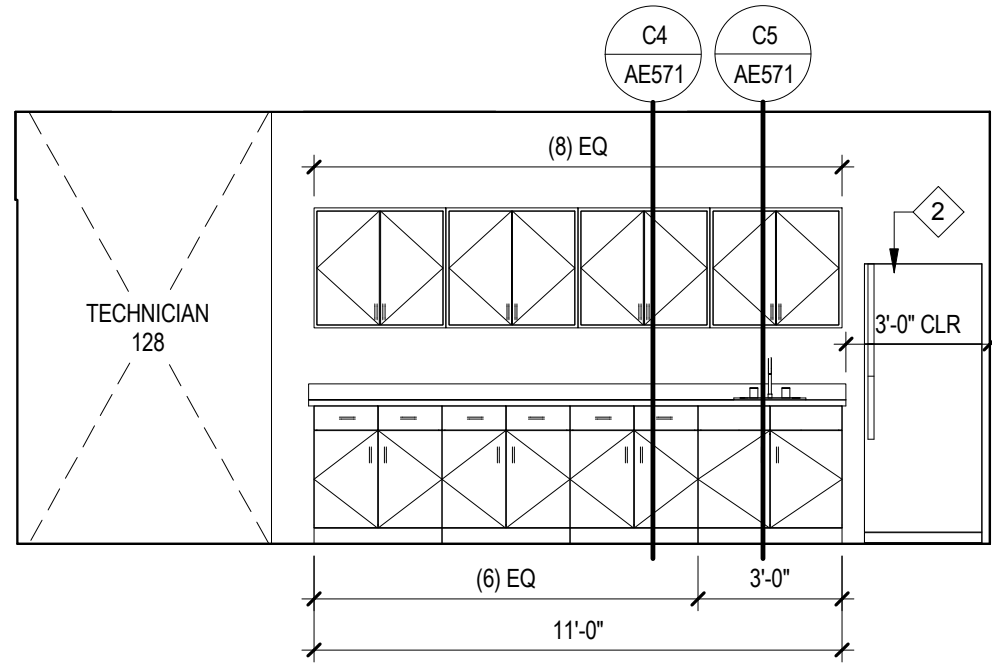
NOTES:  
- ALL MEASUREMENTS ARE TO FINISH FLOOR  
- ALL ADA ACCESSIBLE FIXTURES TO COMPLY WITH ANSI A117 LATEST EDITION  
- ENCLOSURE CAN PROVIDE A MAX. OF 19" AND CANNOT REDUCE THE MIN. REQUIRED CLEAR WIDTH OF ACCESSIBLE PATH

NOTE 2: 40" MAX. TO BOTTOM OF REFLECTING SURFACE

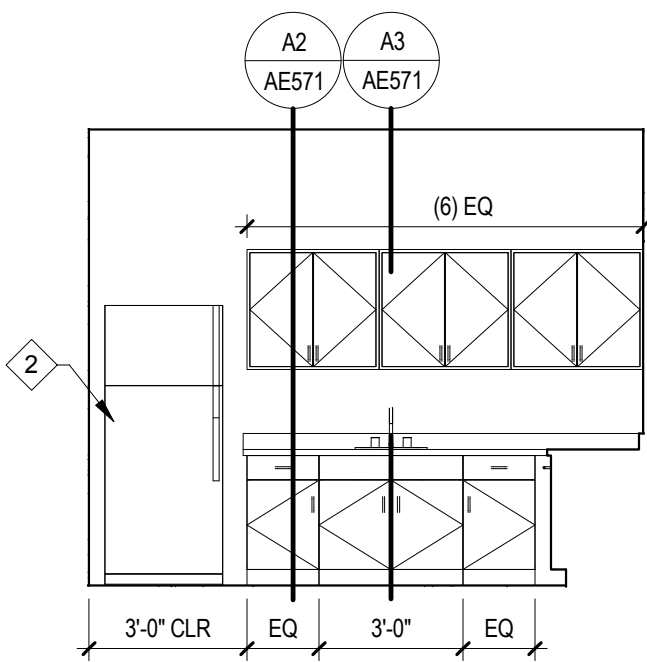
NOTE 1: 48" MAX. HT. FOR ACCESSORY CONTROLS  
ACCESSIBLE BY A FORWARD REACH (PREFERRED) OR 54" MAX. HT. FOR SIDE REACH



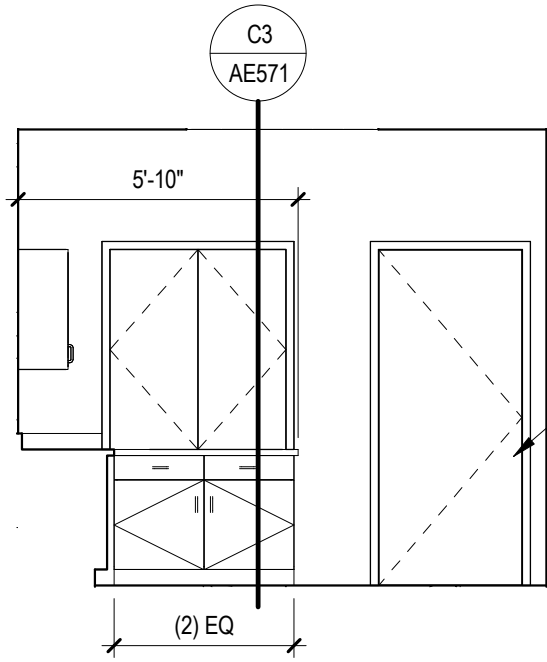
E4 STANDARD MOUNTING HEIGHTS  
AE411 SCALE 1/4" = 1'-0"



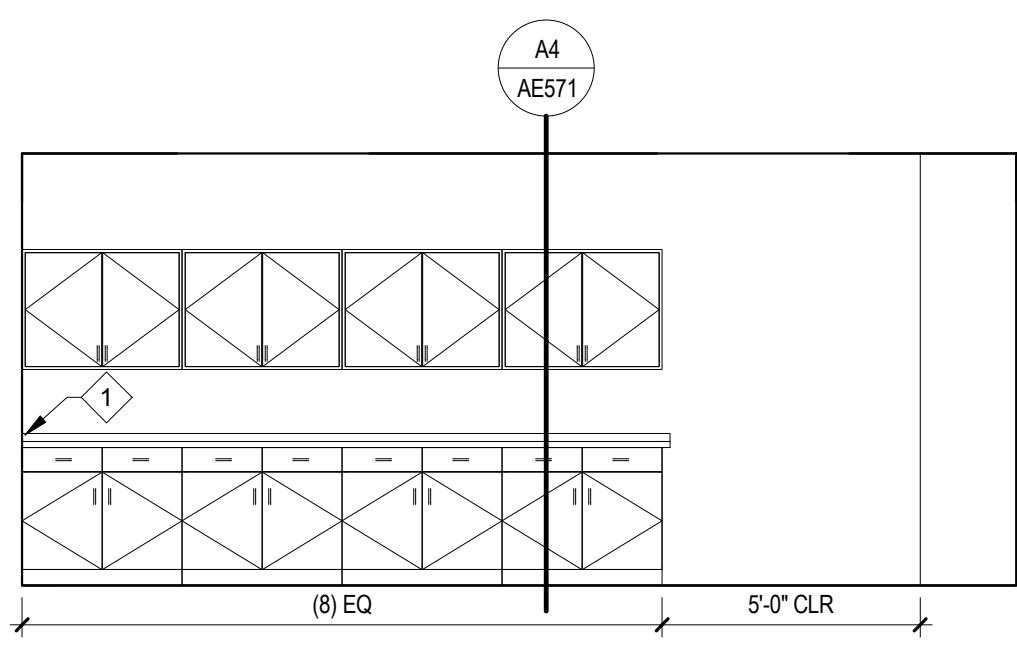
D1 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



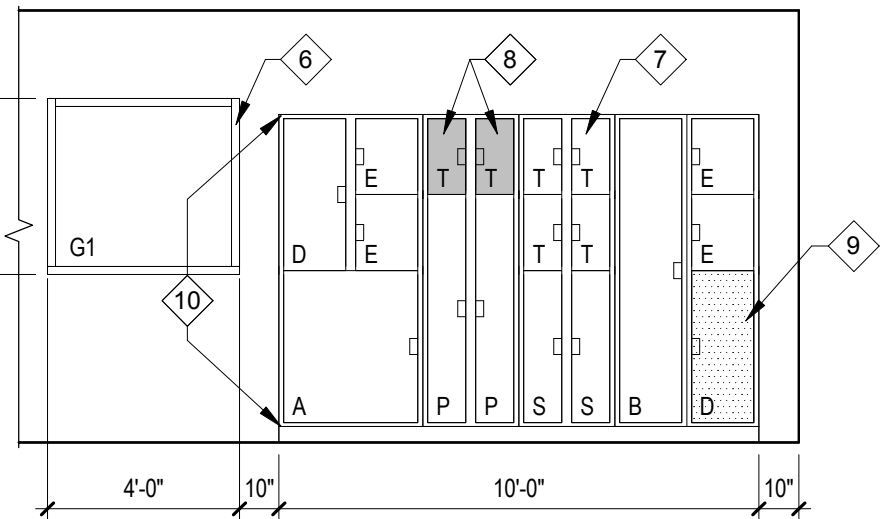
C6 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



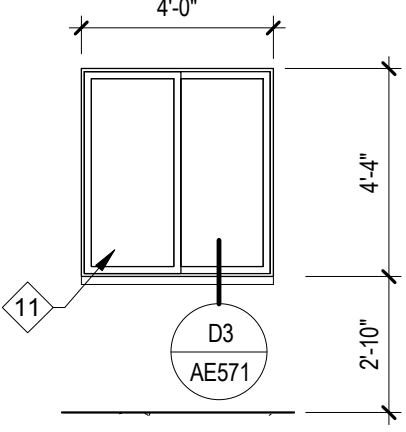
C5 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



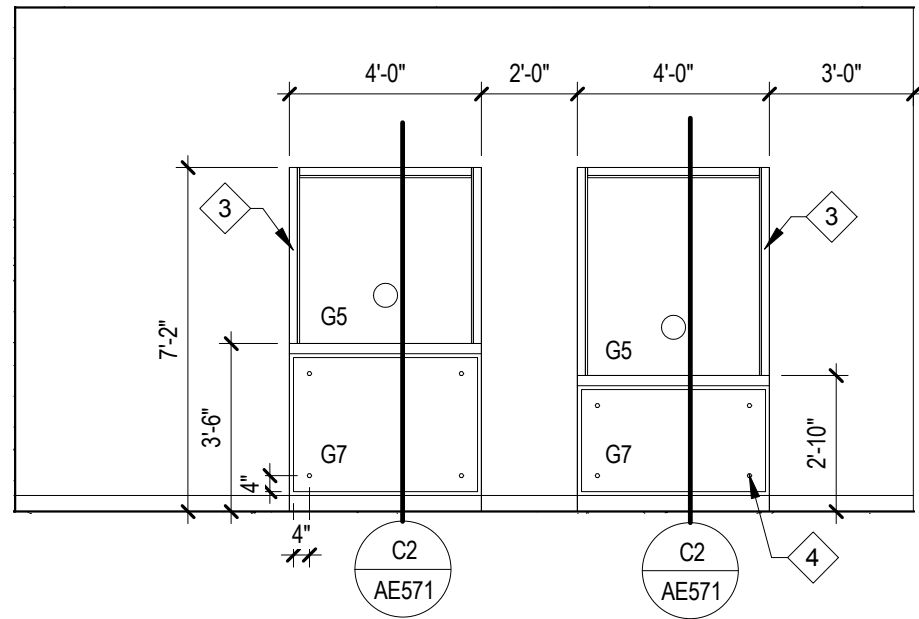
C4 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



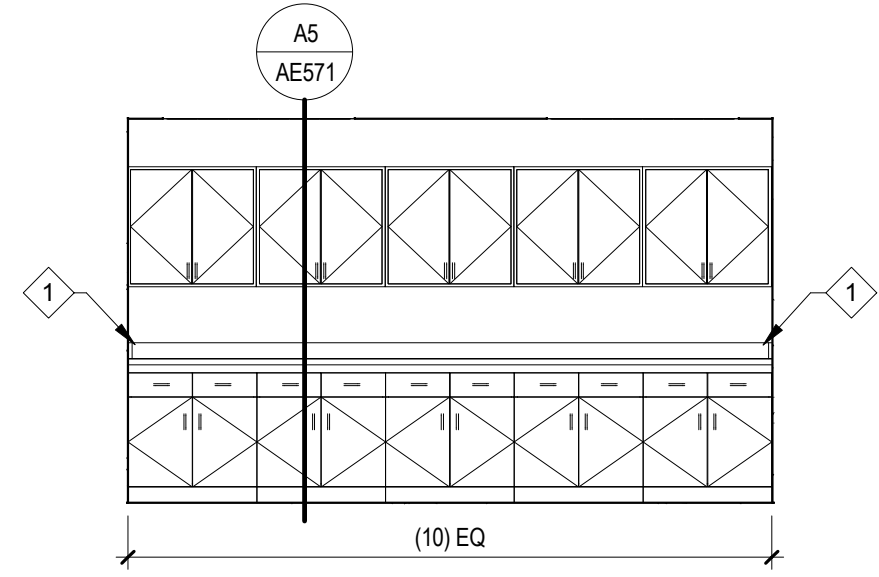
C3 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



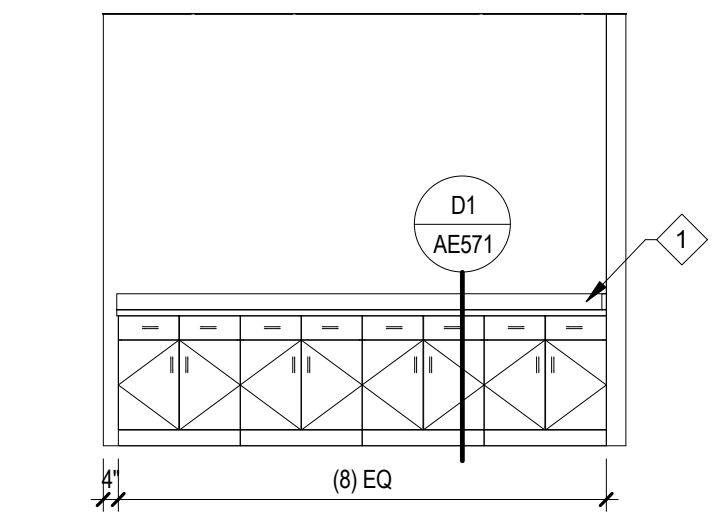
C2 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



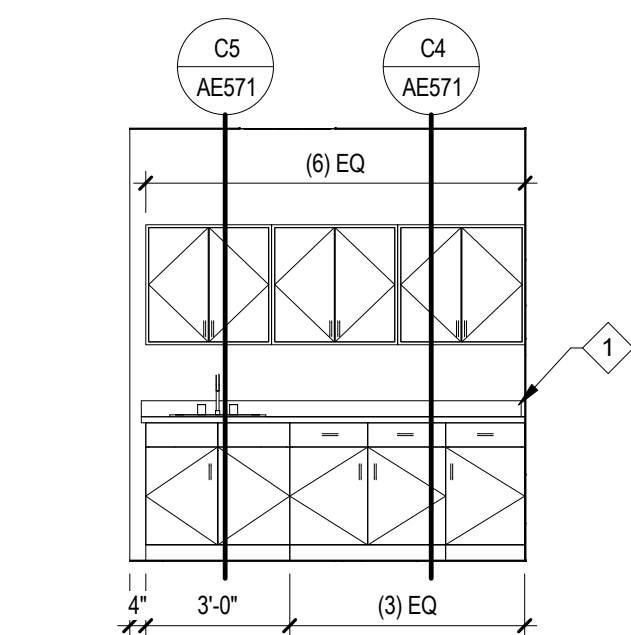
C1 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



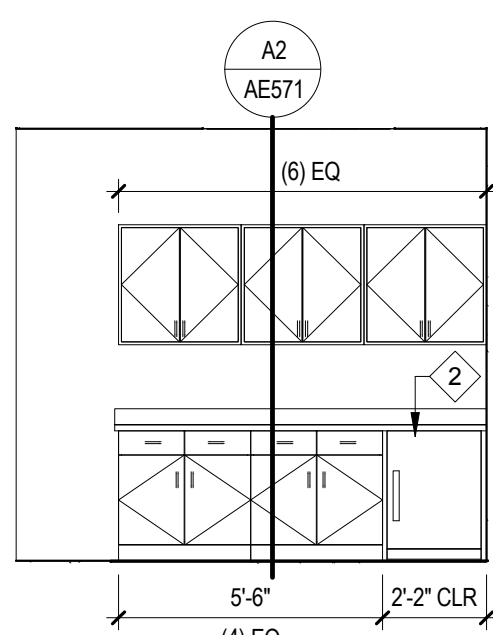
B5 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



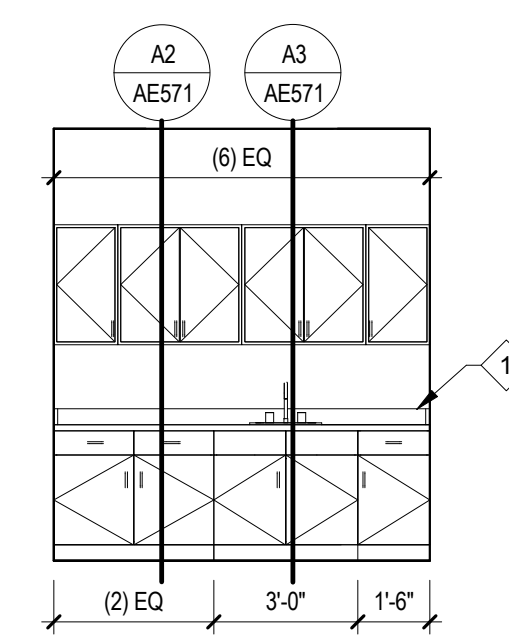
B4 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



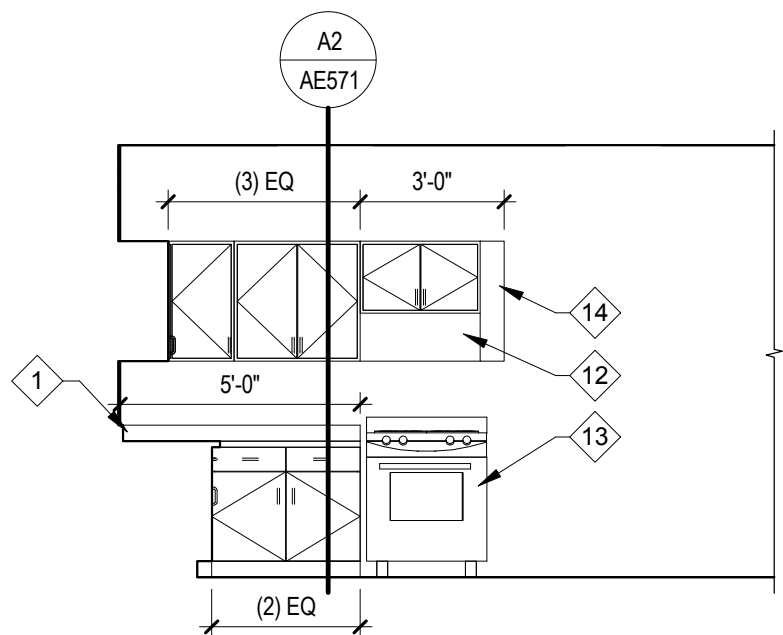
B3 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



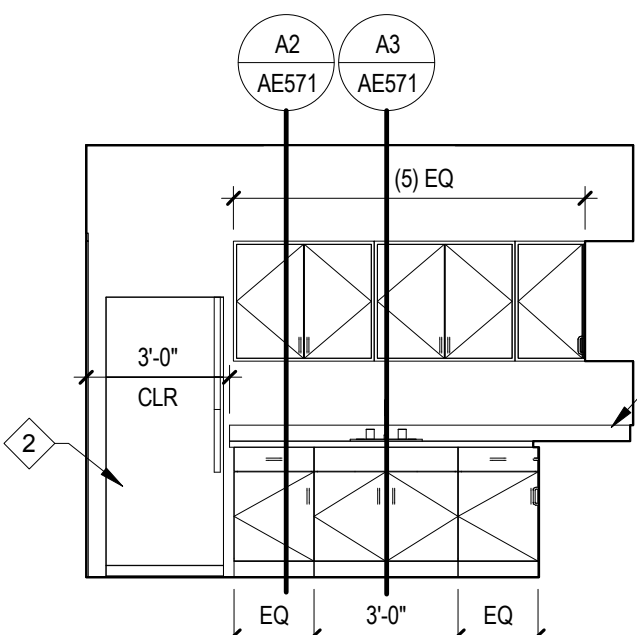
B2 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



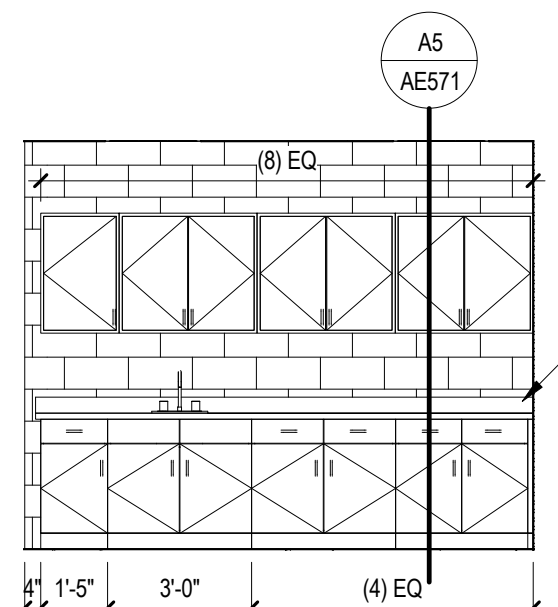
B1 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



A3 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



A2 INTERIOR ELEVATION  
AE411 SCALE 1/4" = 1'-0"



A1 MILLWORK ELEVATION  
AE411 SCALE 1/4" = 1'-0"

## GENERAL NOTES:

1. PROVIDE BLOCKING AT ALL TOILET ACCESSORIES AND TOILET PARTITIONS. COMPLY C2/AES21 AND A4/AES21.

## KEY NOTES:

- 1 BACKSPLASH, TYPICAL AT ALL WALLS
- 2 RESIDENTIAL APPLANCE, N.I.C.
- 3 FRAME TYPE F8
- 4 STANDOFF, TYP.
- 5 SCHEDULED DOOR AND FRAME
- 6 HOLLOW METAL FRAME
- 7 PASS-THRU EVIDENCE LOCKER
- 8 (2) NON-PASS THRU LOCKERS
- 9 REFRIGERATED PASS-THRU EVIDENCE LOCKER
- 10 EVIDENCE LOCKER UNIT
- 11 OPERABLE ALUMINUM WINDOW
- 12 RESIDENTIAL EXHAUST HOOD
- 13 RESIDENTIAL APPLANCE, PROVIDED BY OWNER, INSTALL BY CONTRACTOR
- 14 FIXED PANEL

## GLAZING SCHEDULE

|    |                                                   |
|----|---------------------------------------------------|
| G1 | 1/4" CLEAR - TEMPERED                             |
| G2 | 1/4" CLEAR                                        |
| G3 | 1" INSULATED - TEMPERED                           |
| G4 | 1" INSULATED                                      |
| G5 | 3/8" LAMINATED                                    |
| G6 | 1" INSULATED SPANDREL                             |
| G7 | 1/4" PATTERN GLASS                                |
| G8 | SECURITY GLAZING, CLEAR. SEE SPEC. SECTION 111900 |

## KAYSVILLE CITY POLICE STATION

KAYSVILLE, UTAH



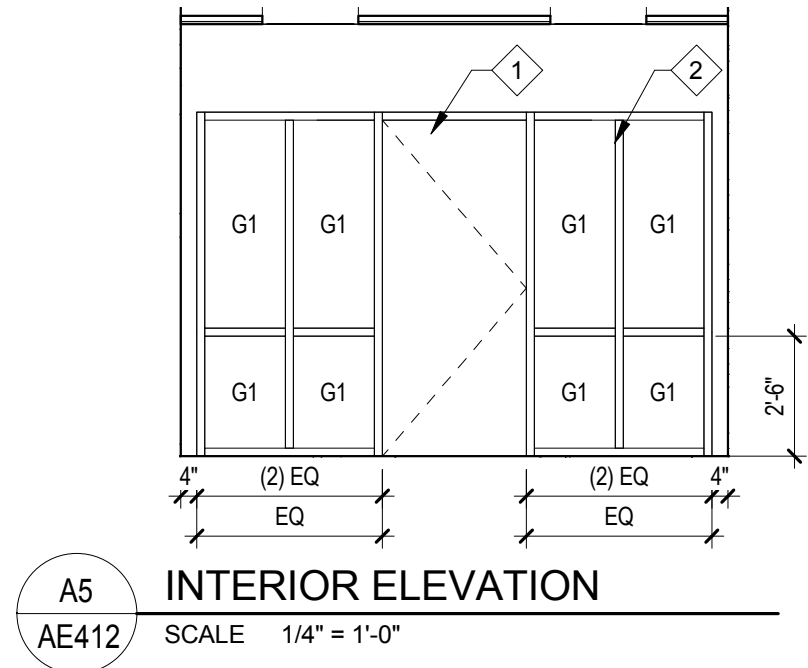
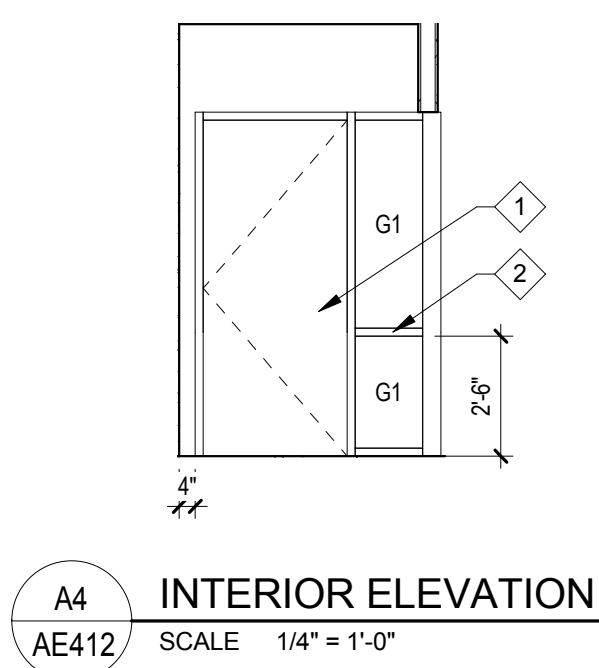
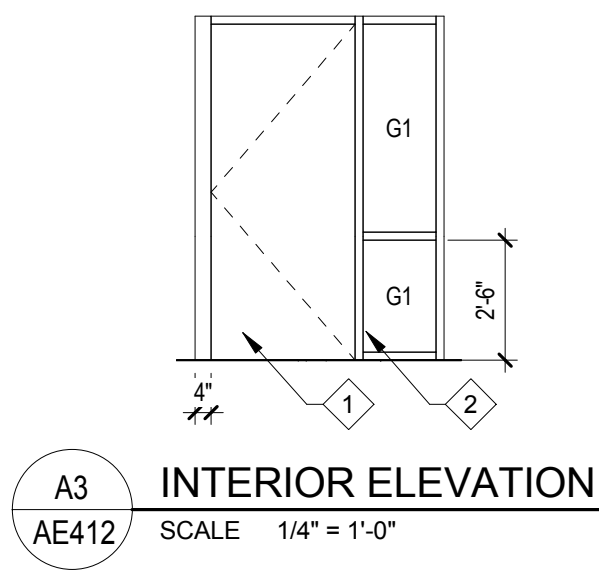
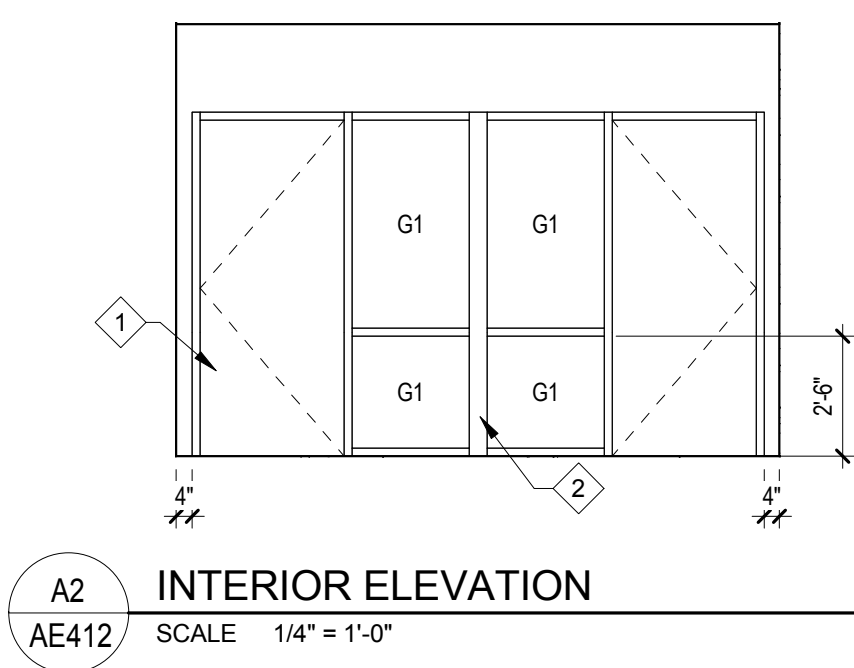
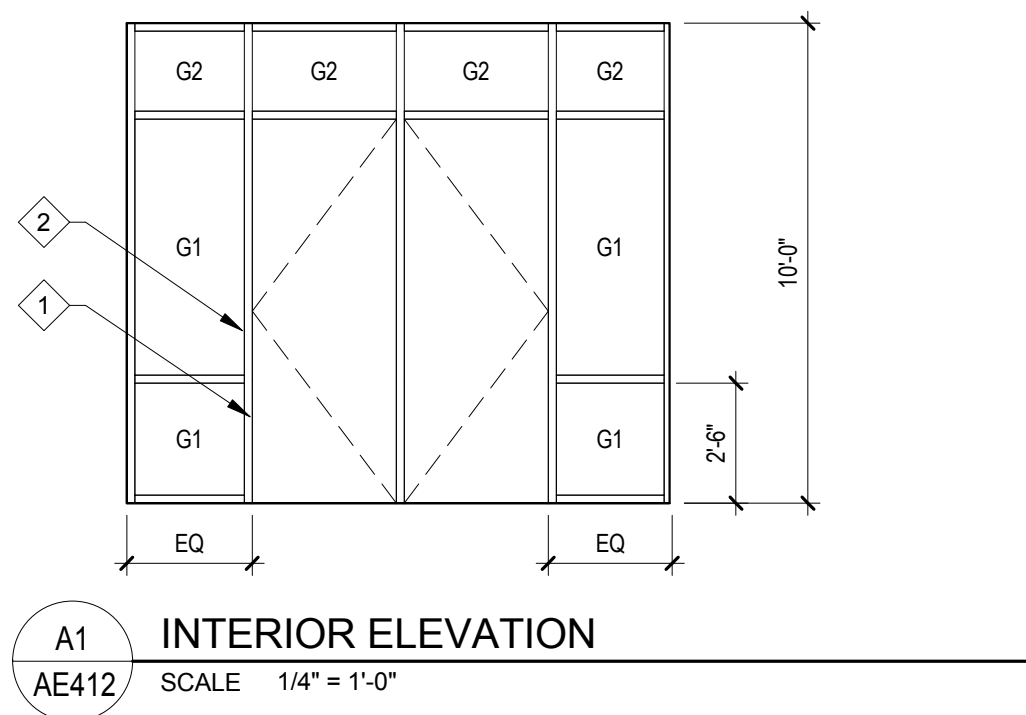
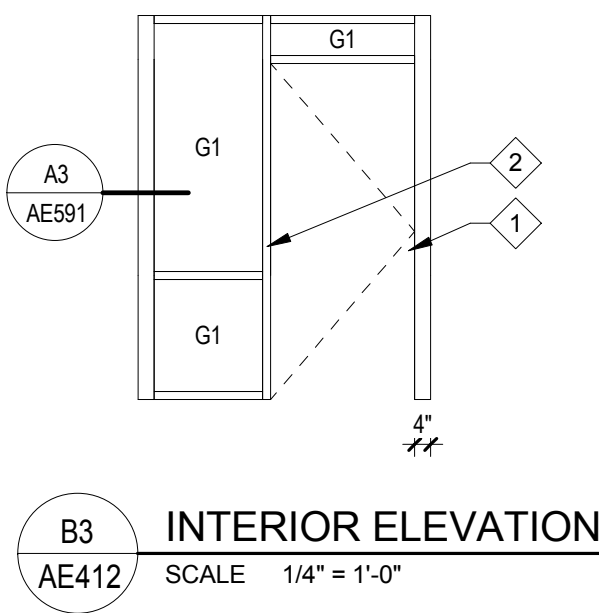
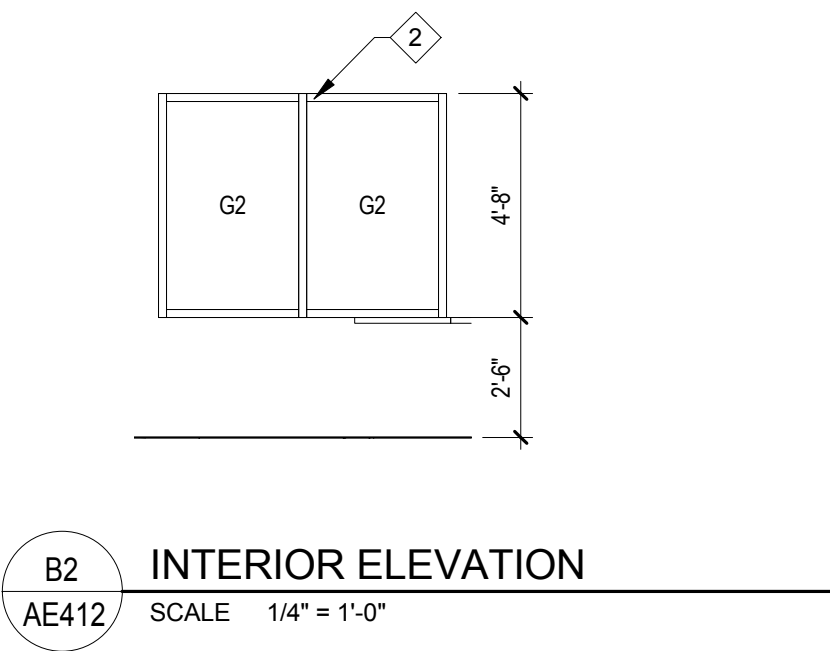
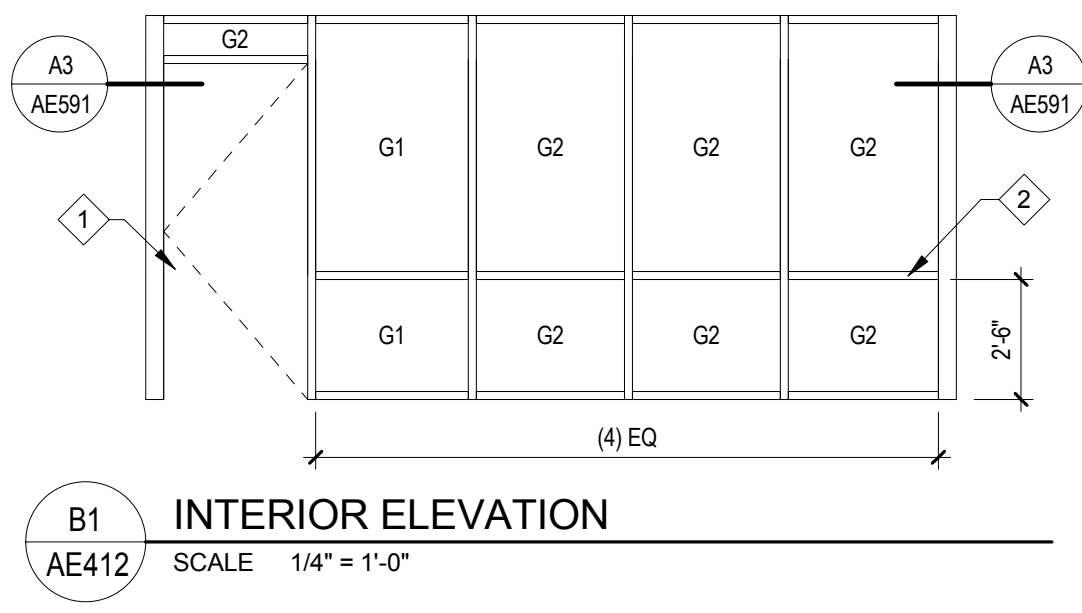
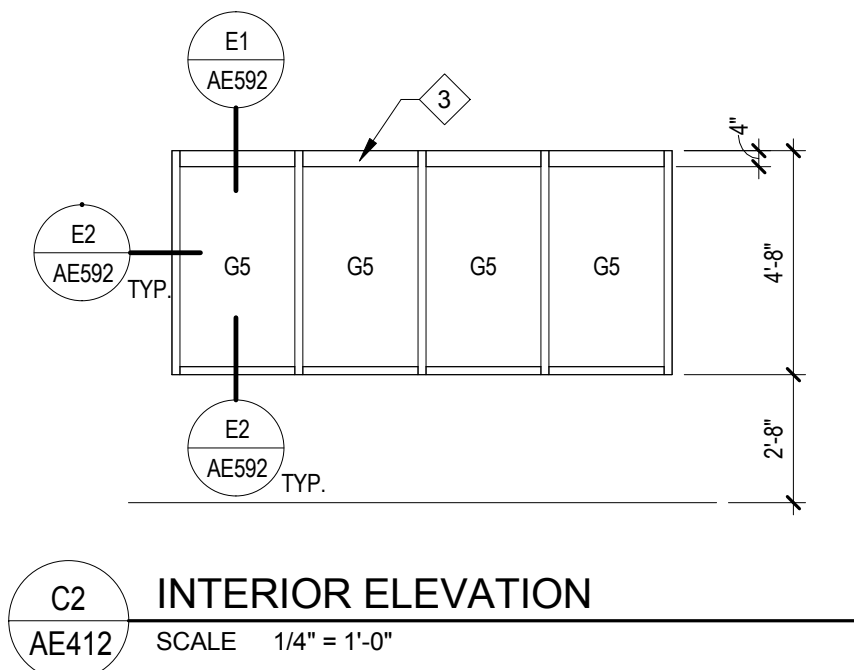
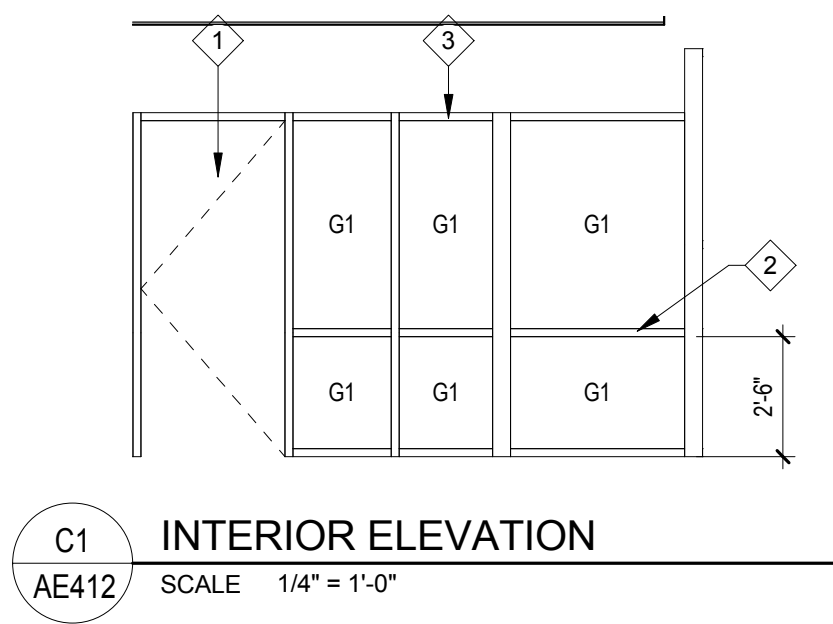
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INTERIOR  
ELEVATIONS

AE411





KEY NOTES:

- 1 SCHEDULED DOOR
- 2 ALUMINUM STOREFRONT SYSTEM
- 3 HM FRAME
- 4 ALUMINUM STOREFRONT SYSTEM

| GLAZING SCHEDULE |                                                   |
|------------------|---------------------------------------------------|
| G1               | 1/4" CLEAR - TEMPERED                             |
| G2               | 1/4" CLEAR                                        |
| G3               | 1" INSULATED - TEMPERED                           |
| G4               | 1" INSULATED                                      |
| G5               | 3/8" LAMINATED                                    |
| G6               | 1" INSULATED SPANDREL                             |
| G7               | 1/4" PATTERN GLASS                                |
| G8               | SECURITY GLAZING, CLEAR, SEE SPEC. SECTION 111900 |

KAYSVILLE CITY POLICE  
STATION

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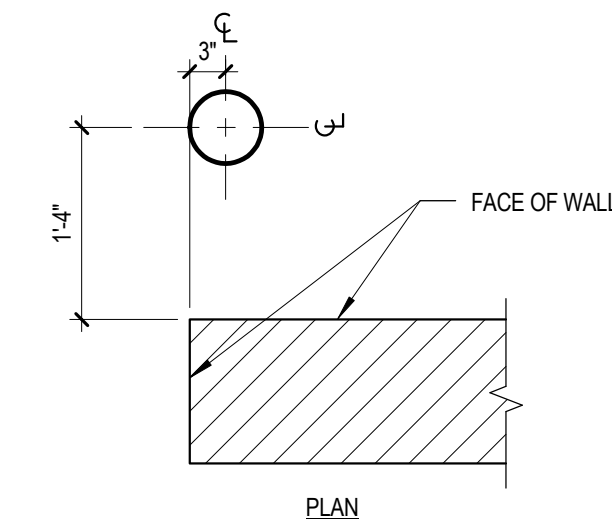
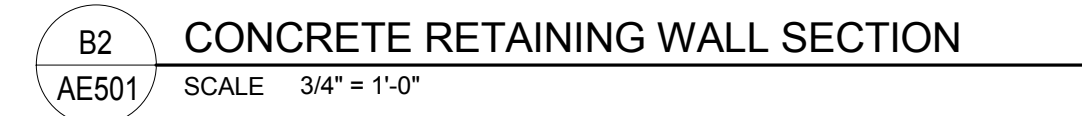
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INTERIOR  
ELEVATIONS

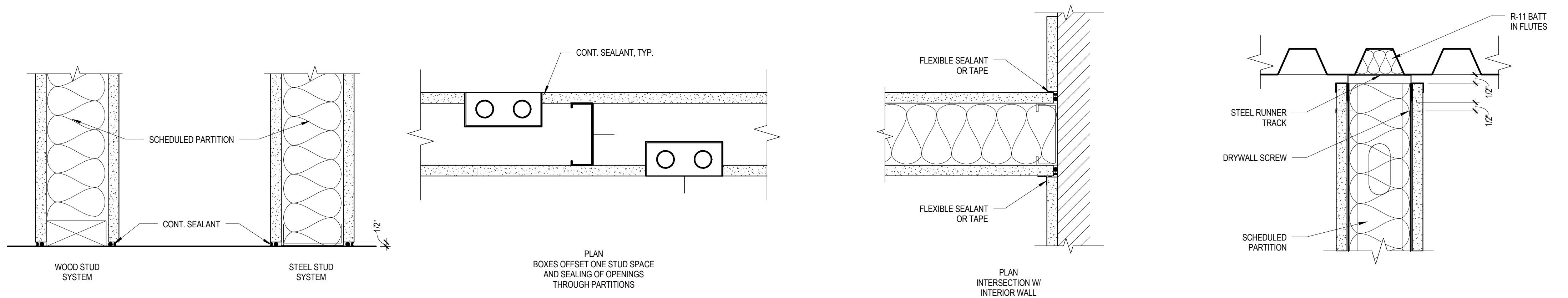
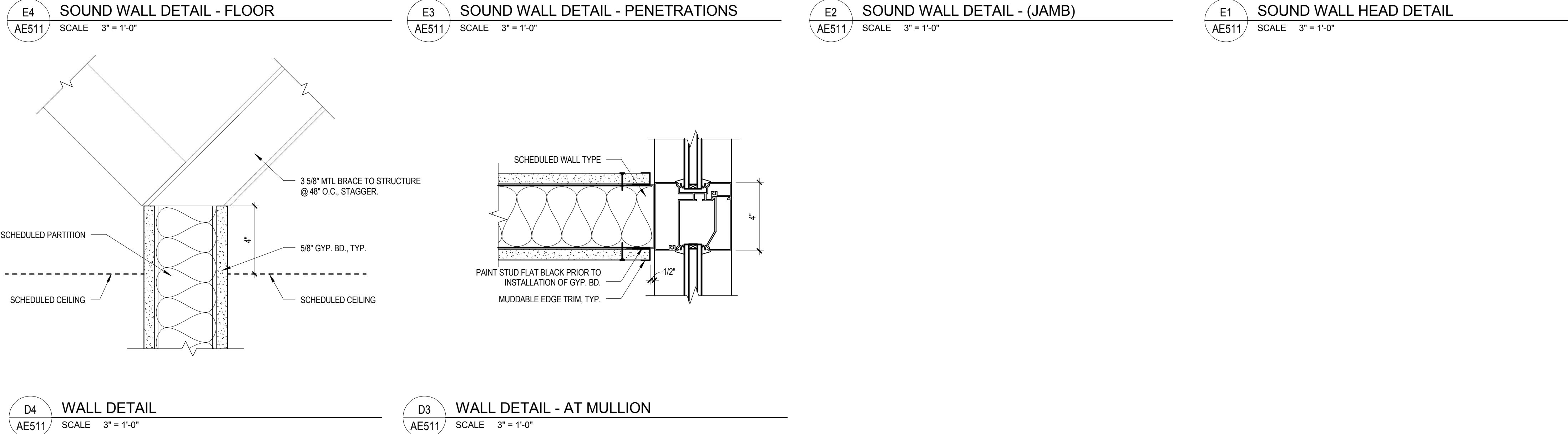
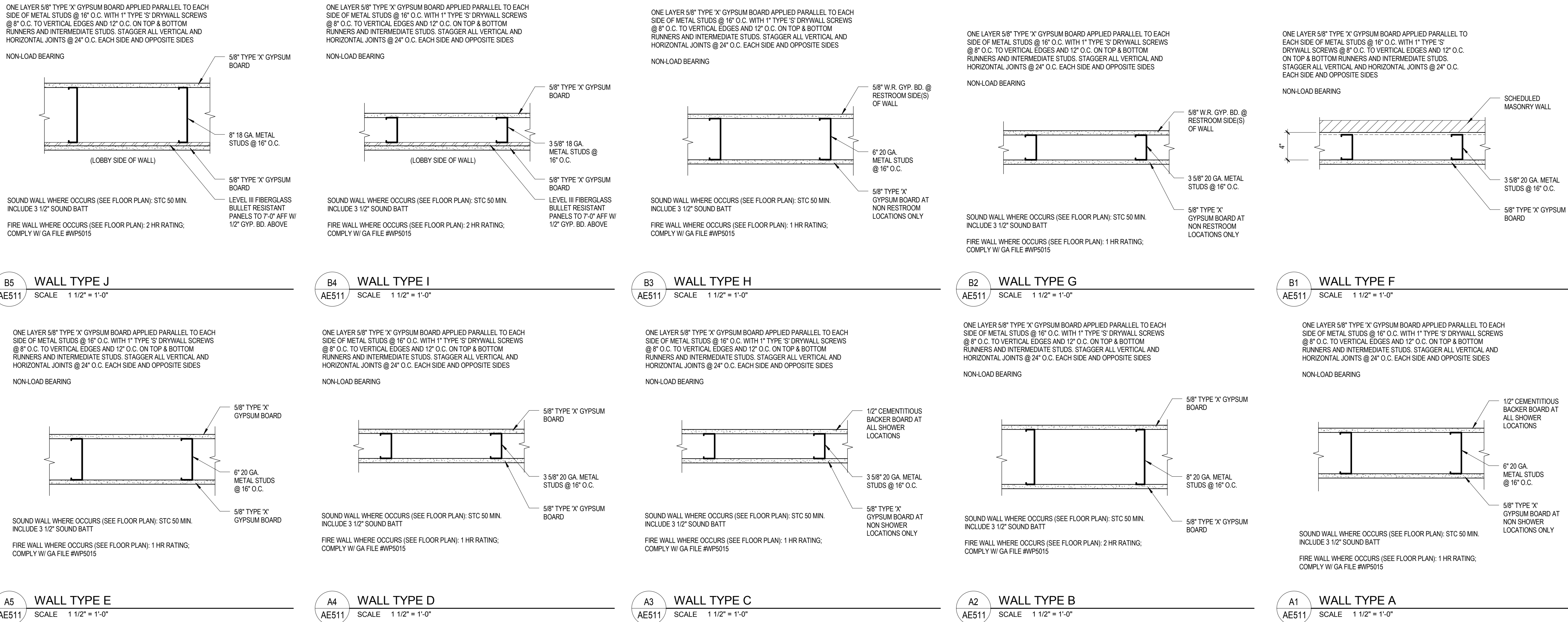
AE412





AE501





GENERAL NOTES:

1. COMPLY WITH DETAIL D4/AE511 FOR ALL WALLS NOT INDICATED AS SOUND WALLS.

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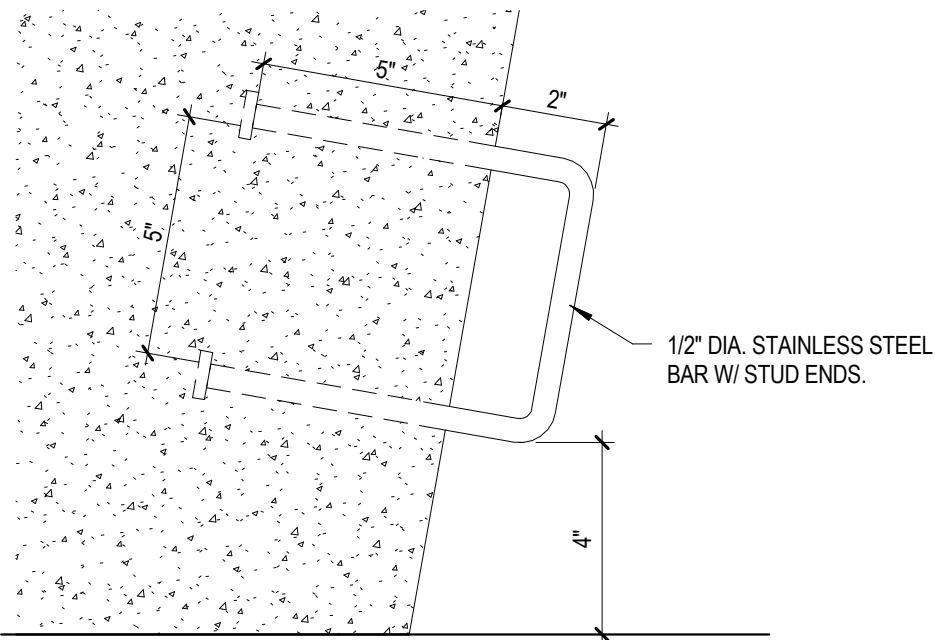
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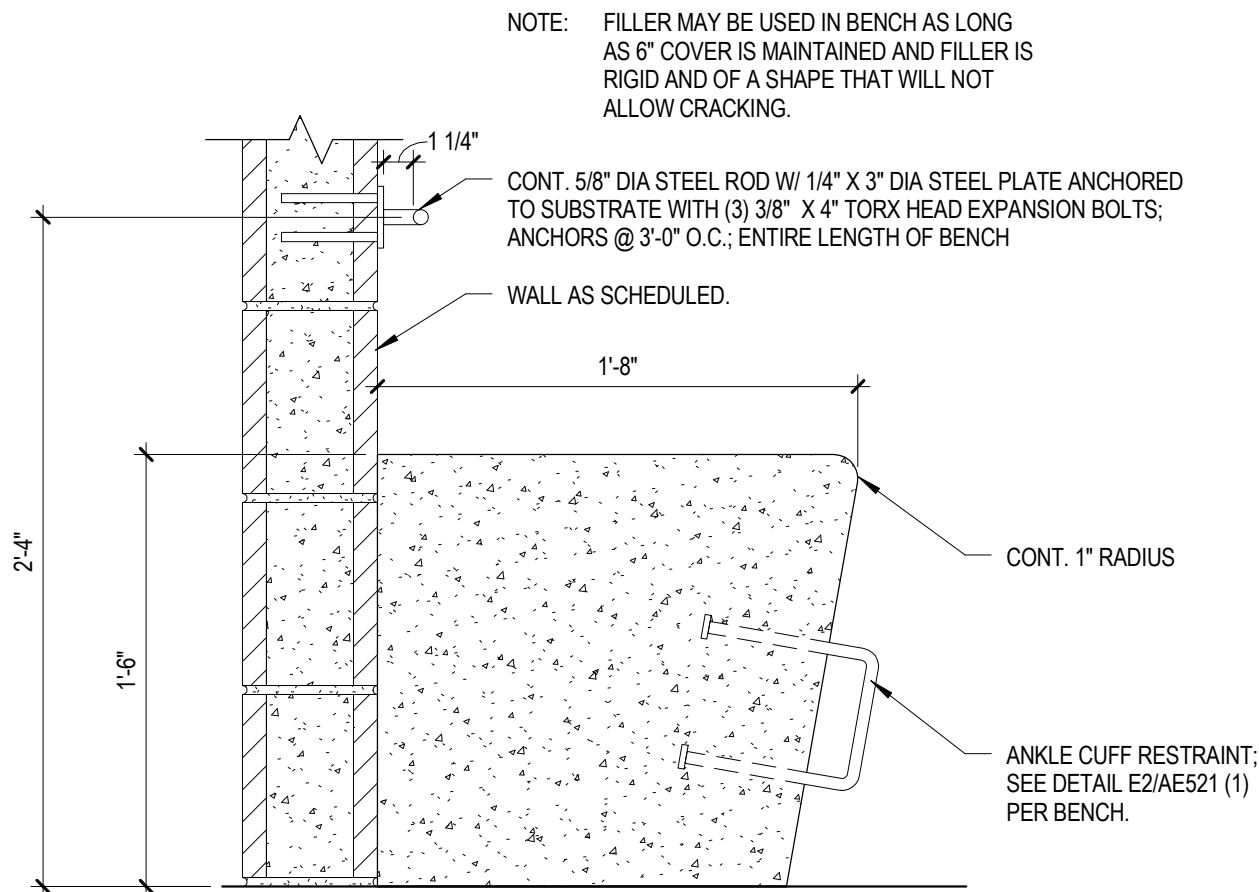
WALL TYPES

AE511

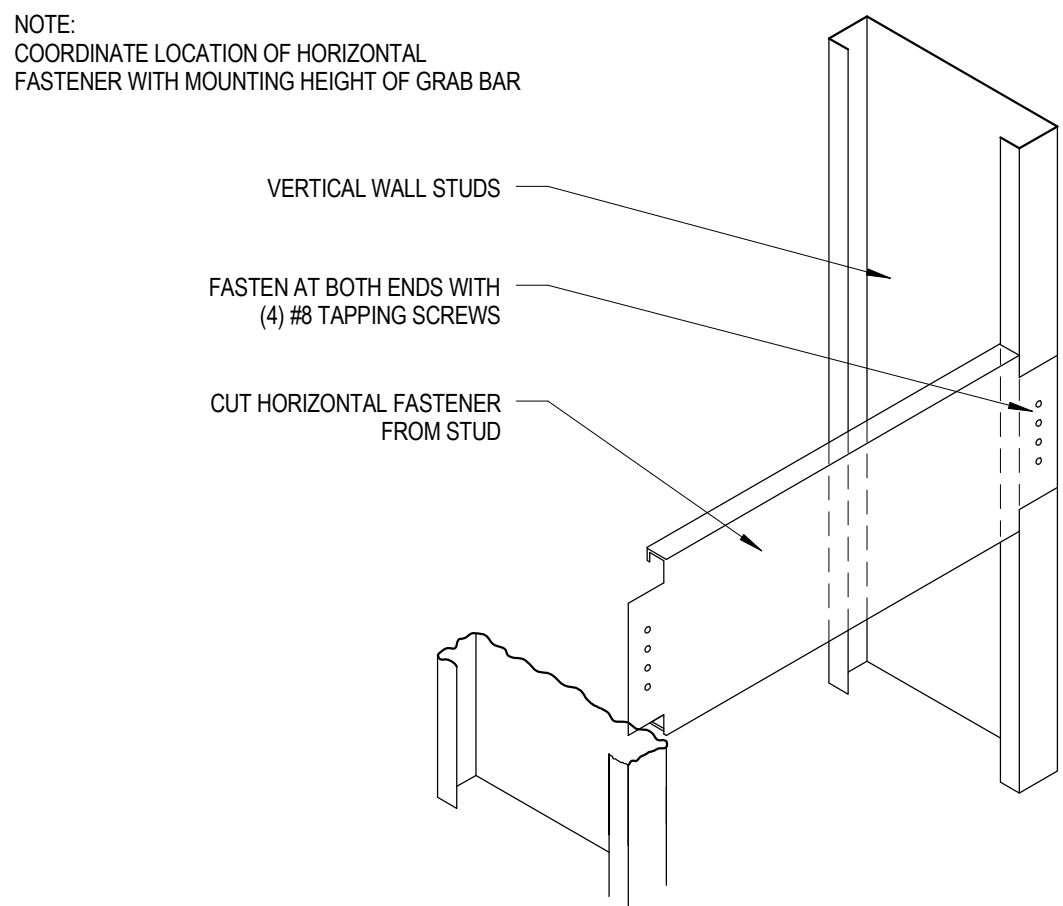




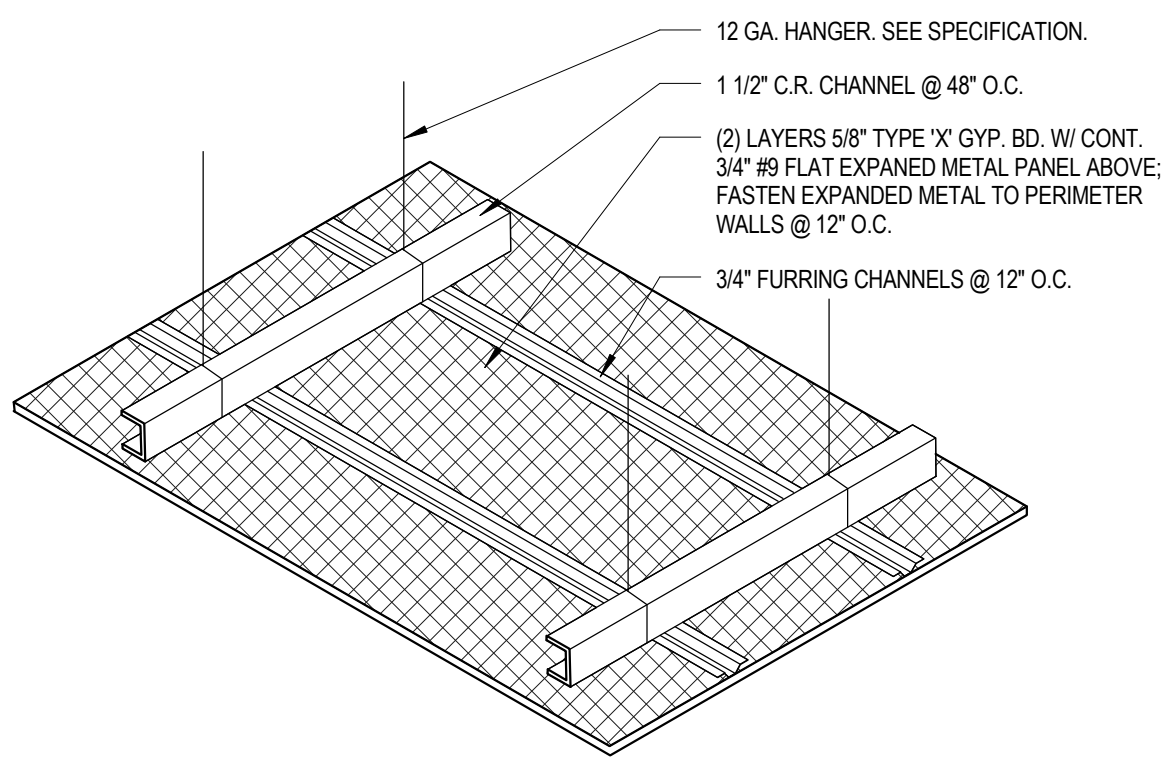
E2 ANKLE CUFF RESTRAINT DETAIL  
SCALE 3" = 1'-0"



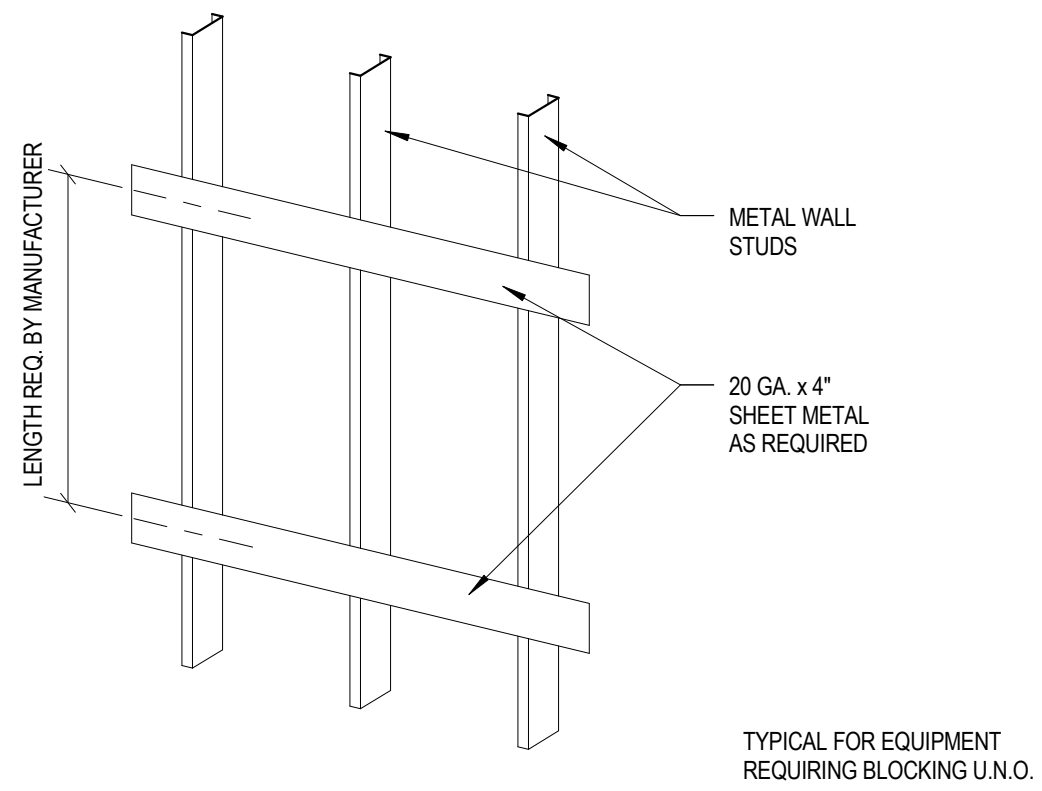
E1 CONCRETE BENCH SECTION  
SCALE 1 1/2" = 1'-0"



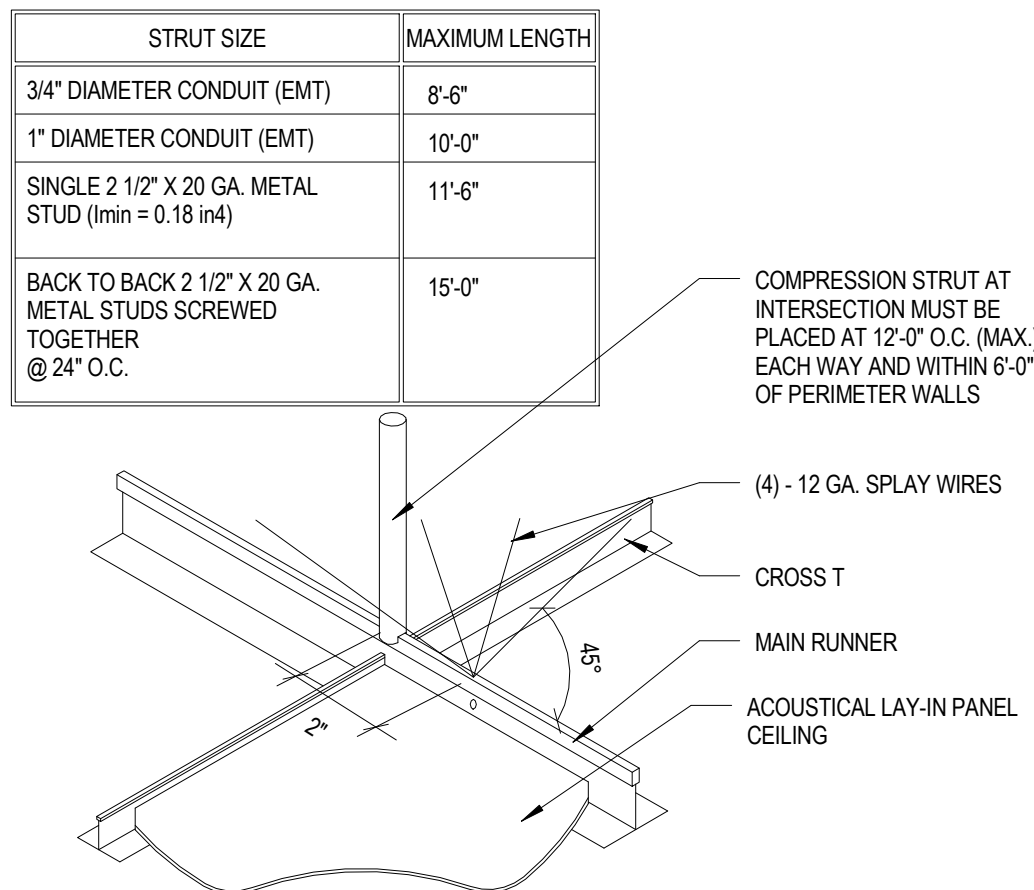
C4 GRAB BAR BLOCKING DETAIL  
SCALE 3/8" = 1'-0"



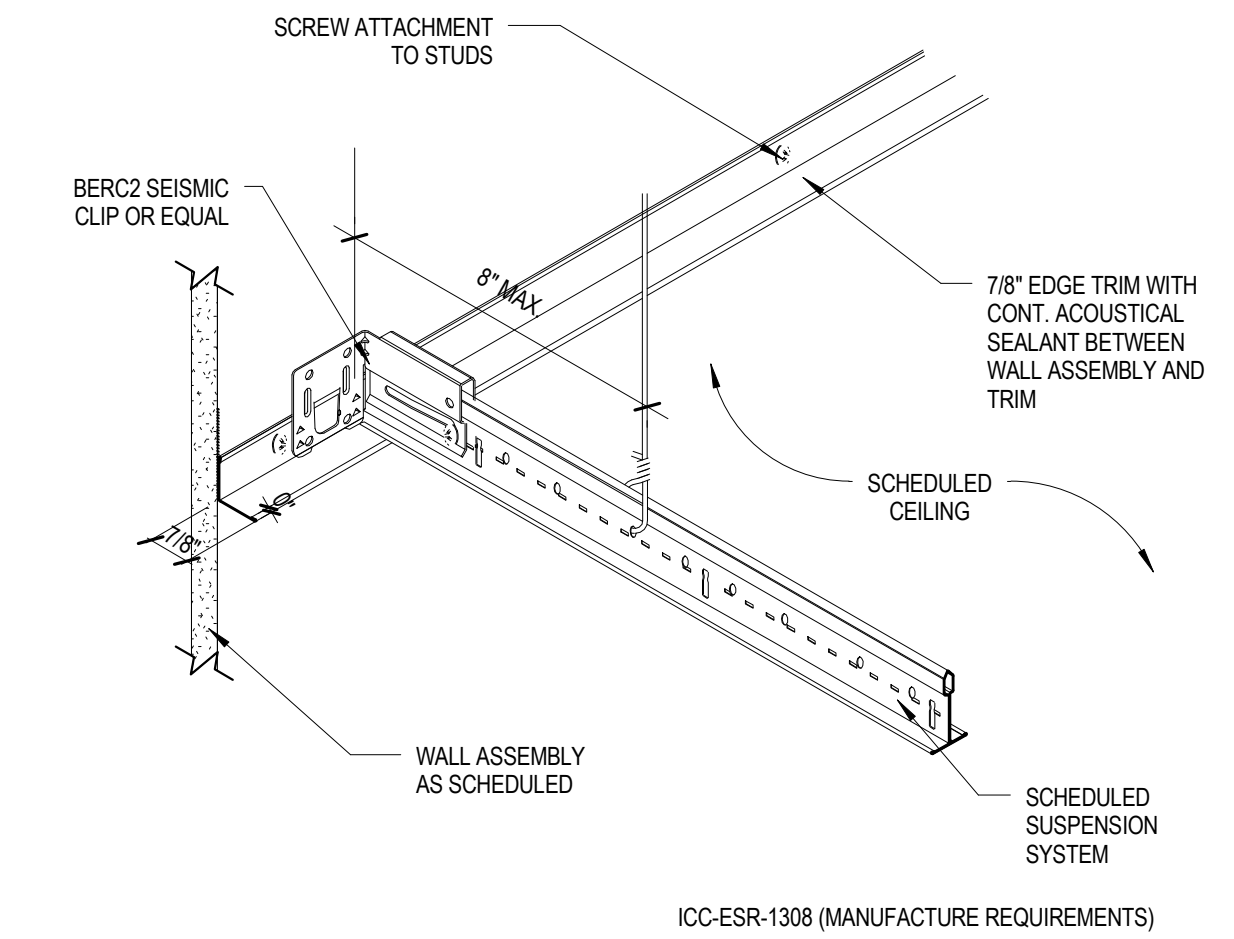
C3 SUSPENDED CEILING SYSTEM (SECURITY)  
SCALE 3" = 1'-0"



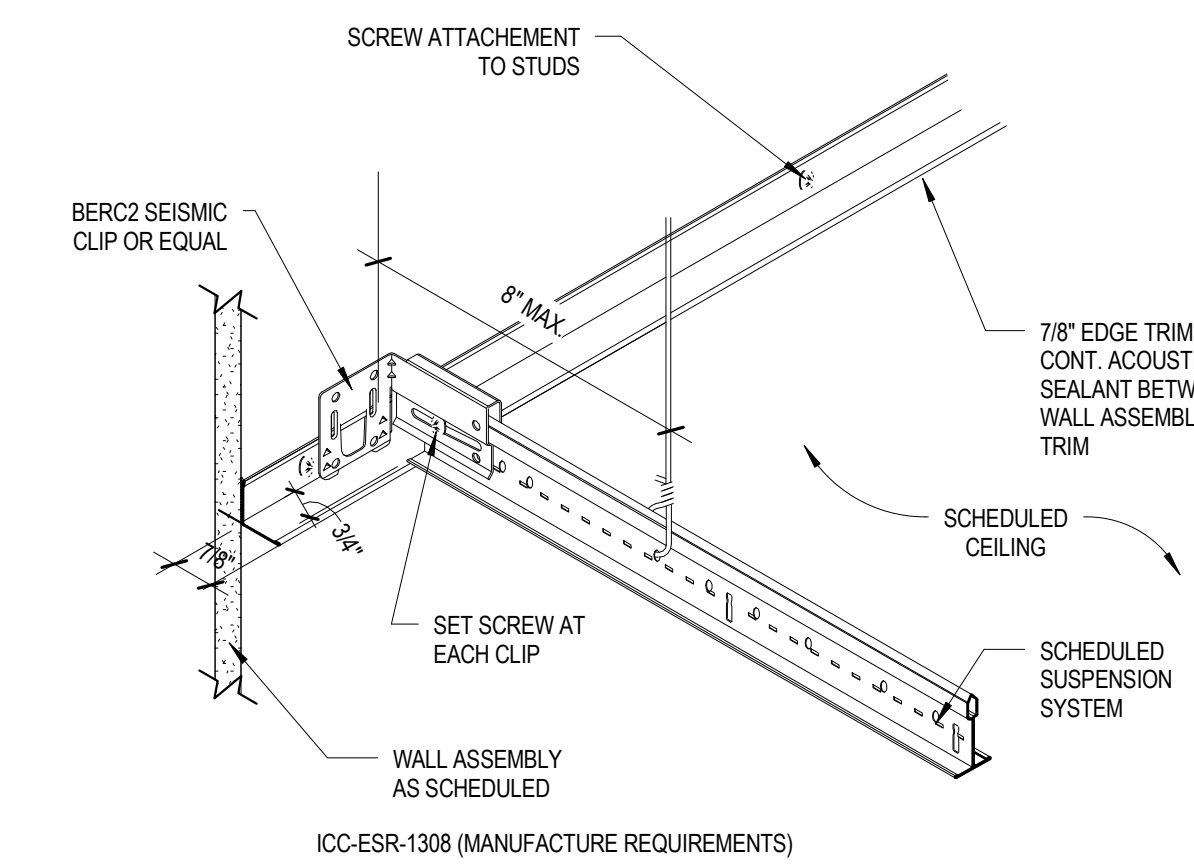
C2 BLOCKING DETAIL  
SCALE 3" = 1'-0"



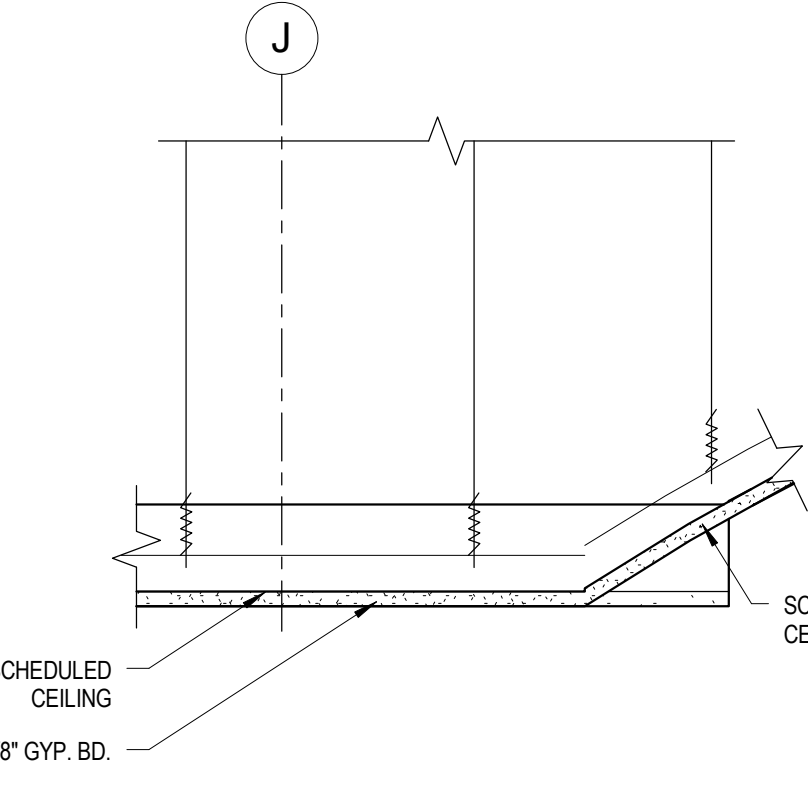
C1 TYPICAL COMPRESSION STRUT  
SCALE 3" = 1'-0"



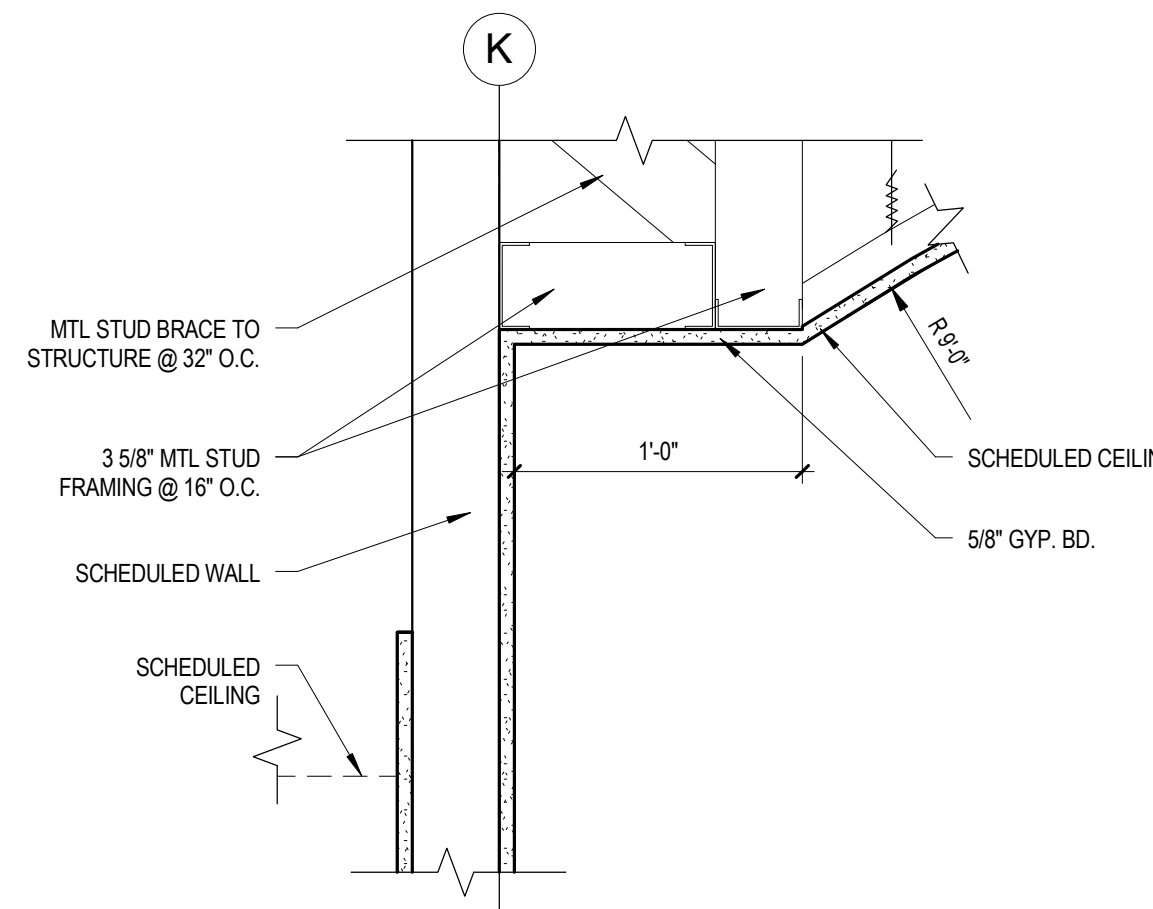
B4 UNRESTRAINED EDGE W/ SEISMIC CLIP  
SCALE 3" = 1'-0"



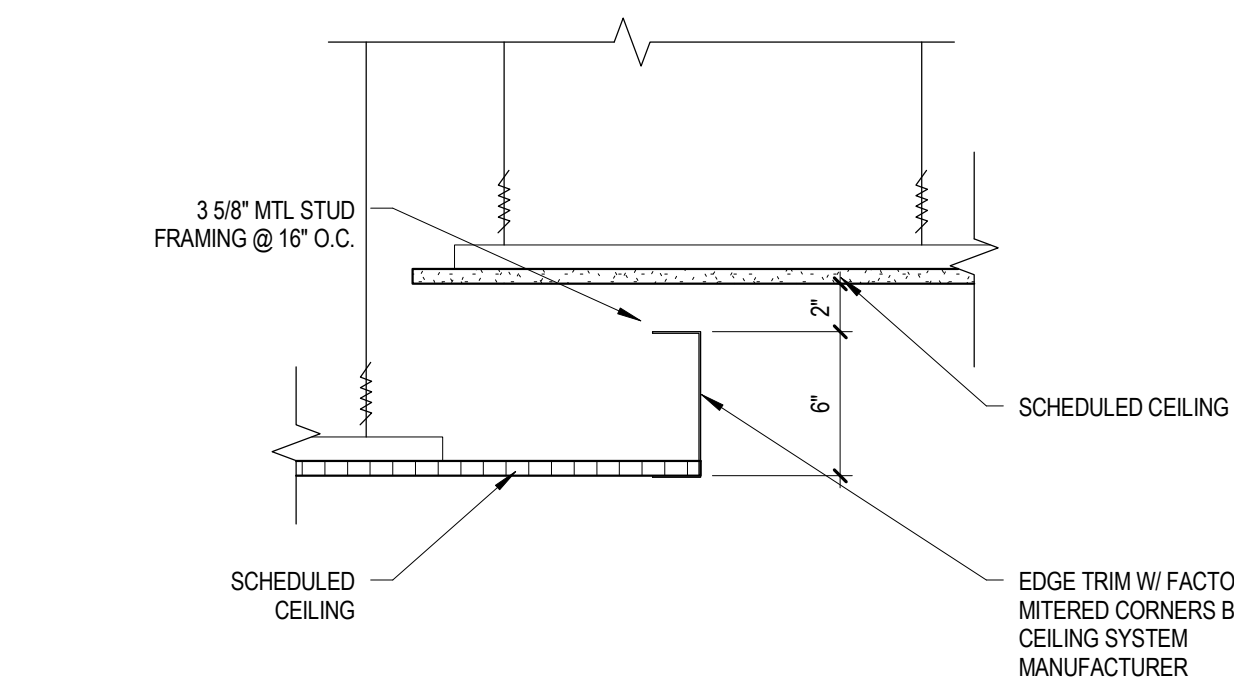
B3 RESTRAINED EDGE W/ SEISMIC CLIP  
SCALE 3" = 1'-0"



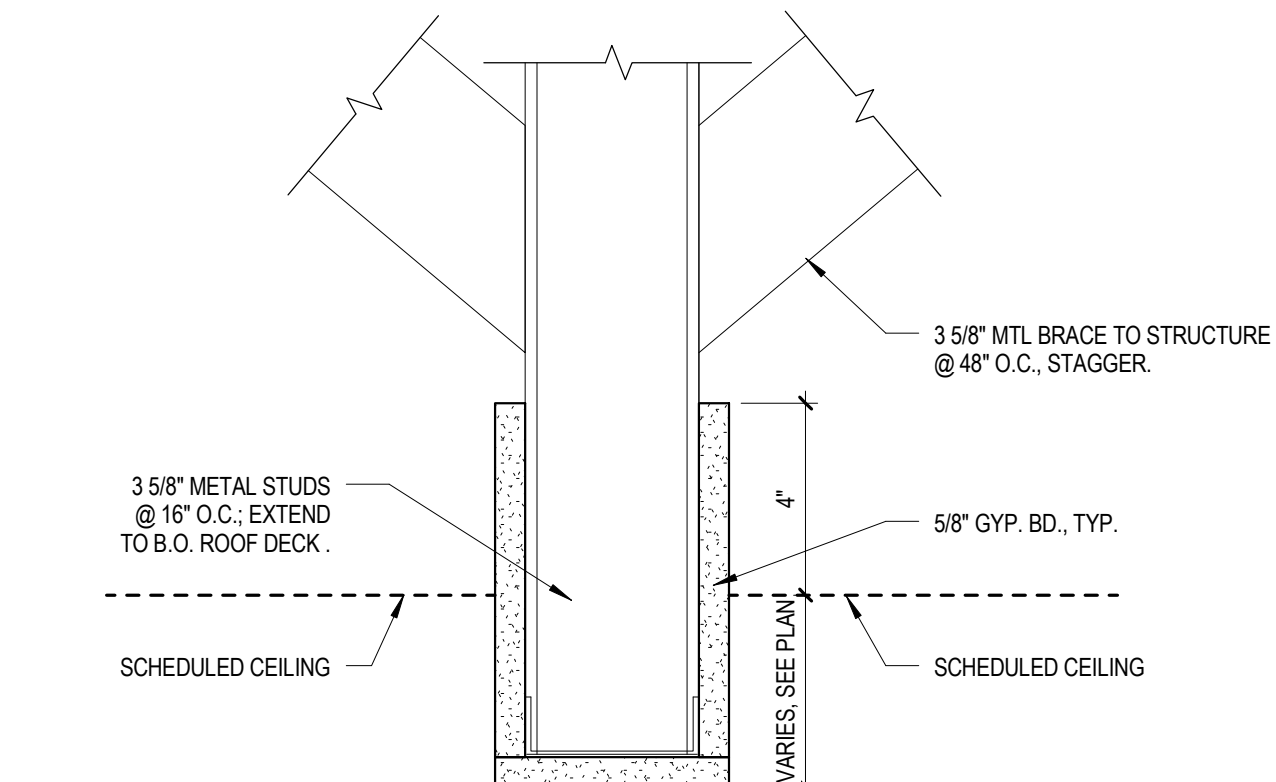
B2 CEILING DETAIL  
SCALE 1 1/2" = 1'-0"



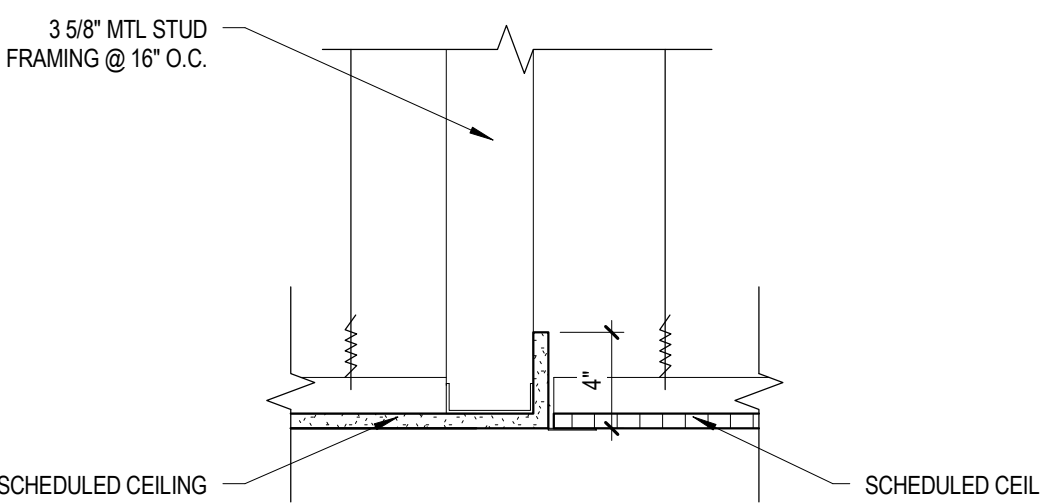
B1 CEILING DETAIL  
SCALE 1 1/2" = 1'-0"



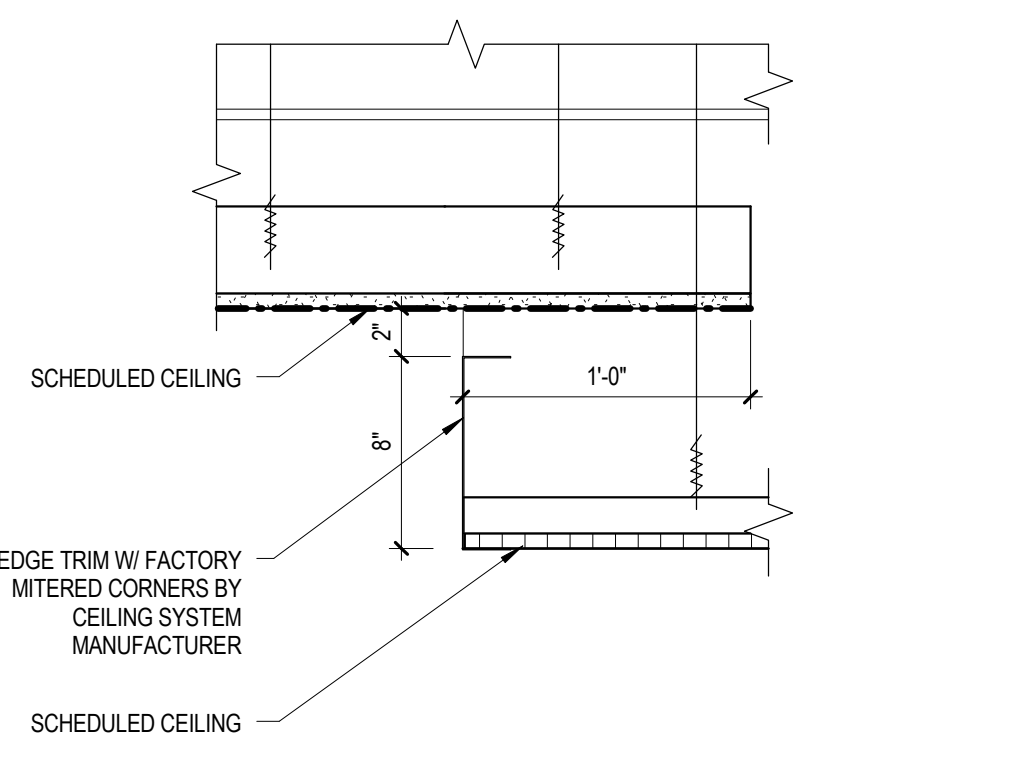
A4 CEILING DETAIL  
SCALE 1 1/2" = 1'-0"



A3 CEILING TRANSITION DETAIL  
SCALE 3" = 1'-0"



A2 CEILING DETAIL  
SCALE 1 1/2" = 1'-0"



A1 CEILING DETAIL  
SCALE 1 1/2" = 1'-0"

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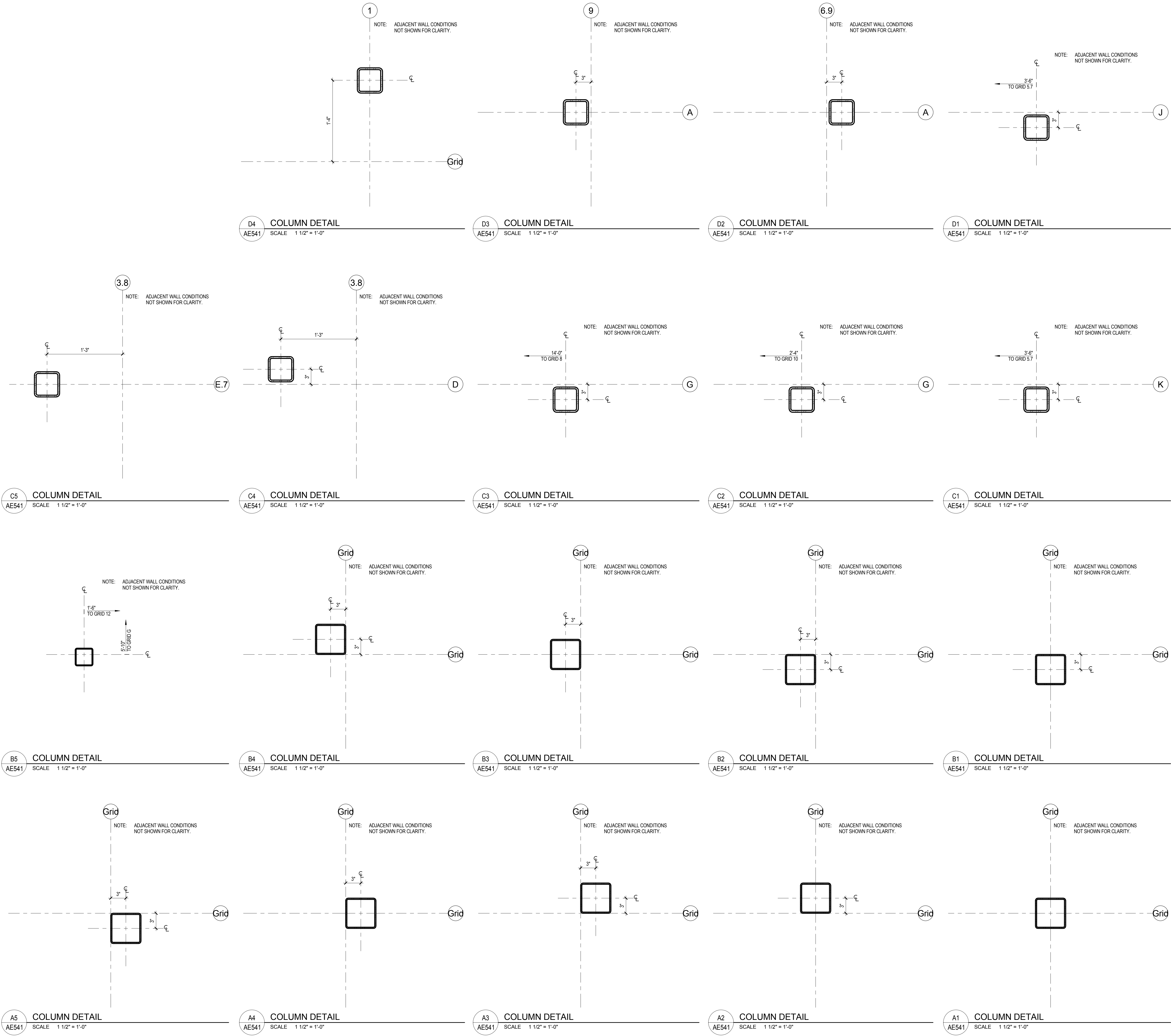
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INTERIOR FINISH  
DETAILS

AE521





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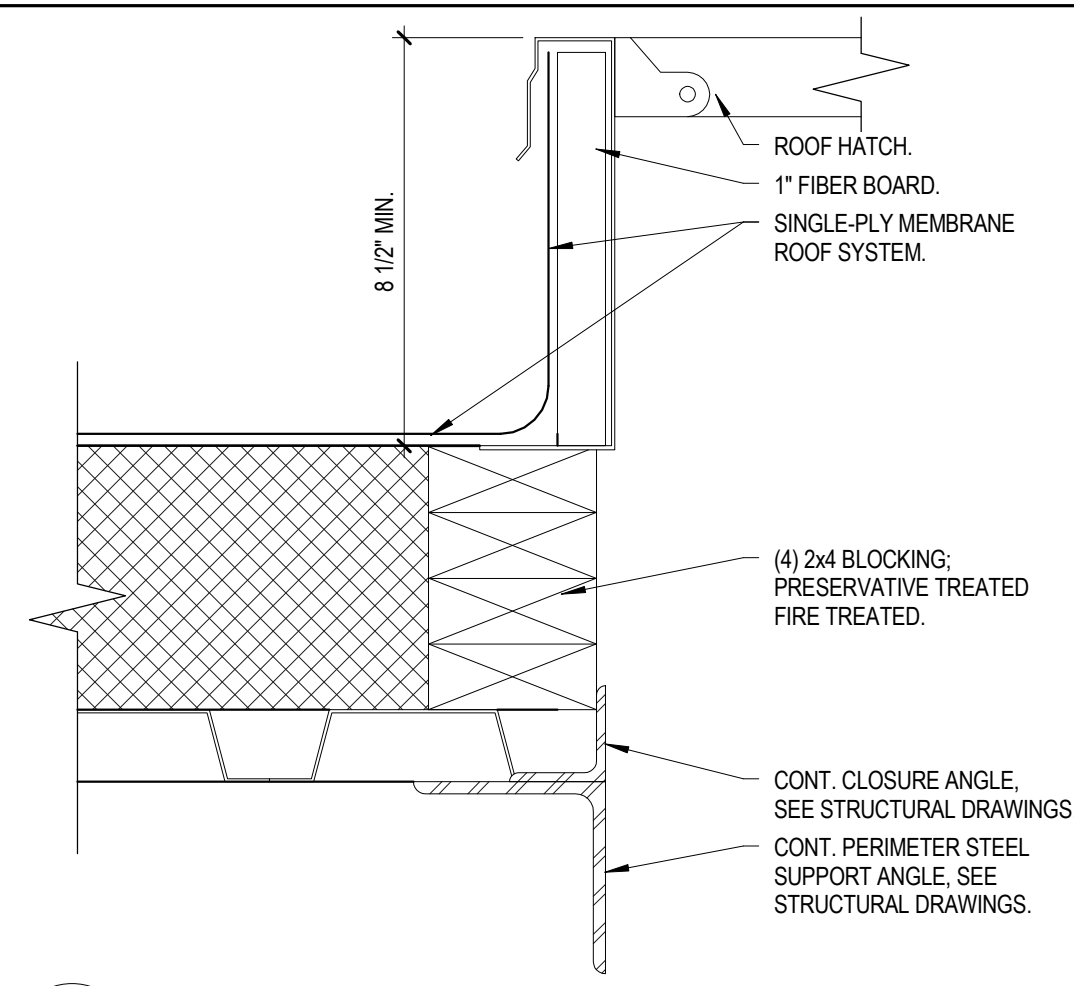
**JRCA**  
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| DATE       | REVISION | PROJECT # |
|------------|----------|-----------|
| 12-03-2013 |          | 10002     |

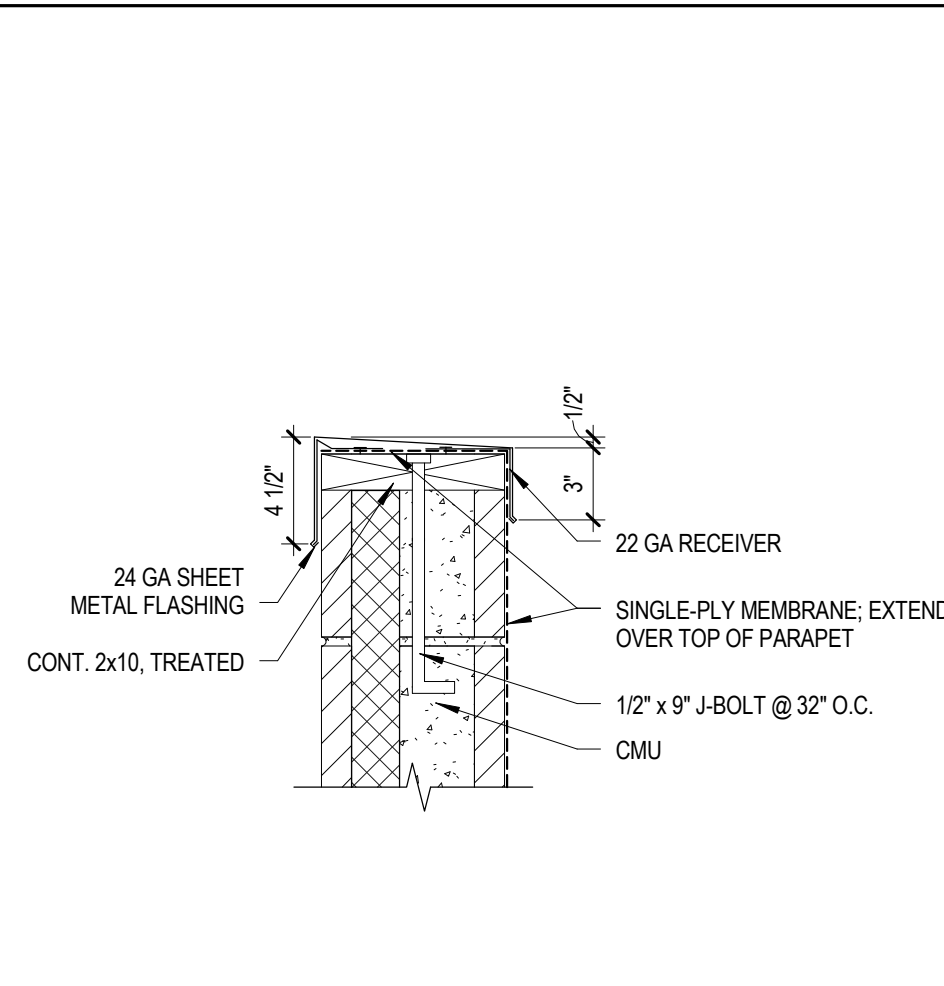
BUILDING  
DETAILS

AE541

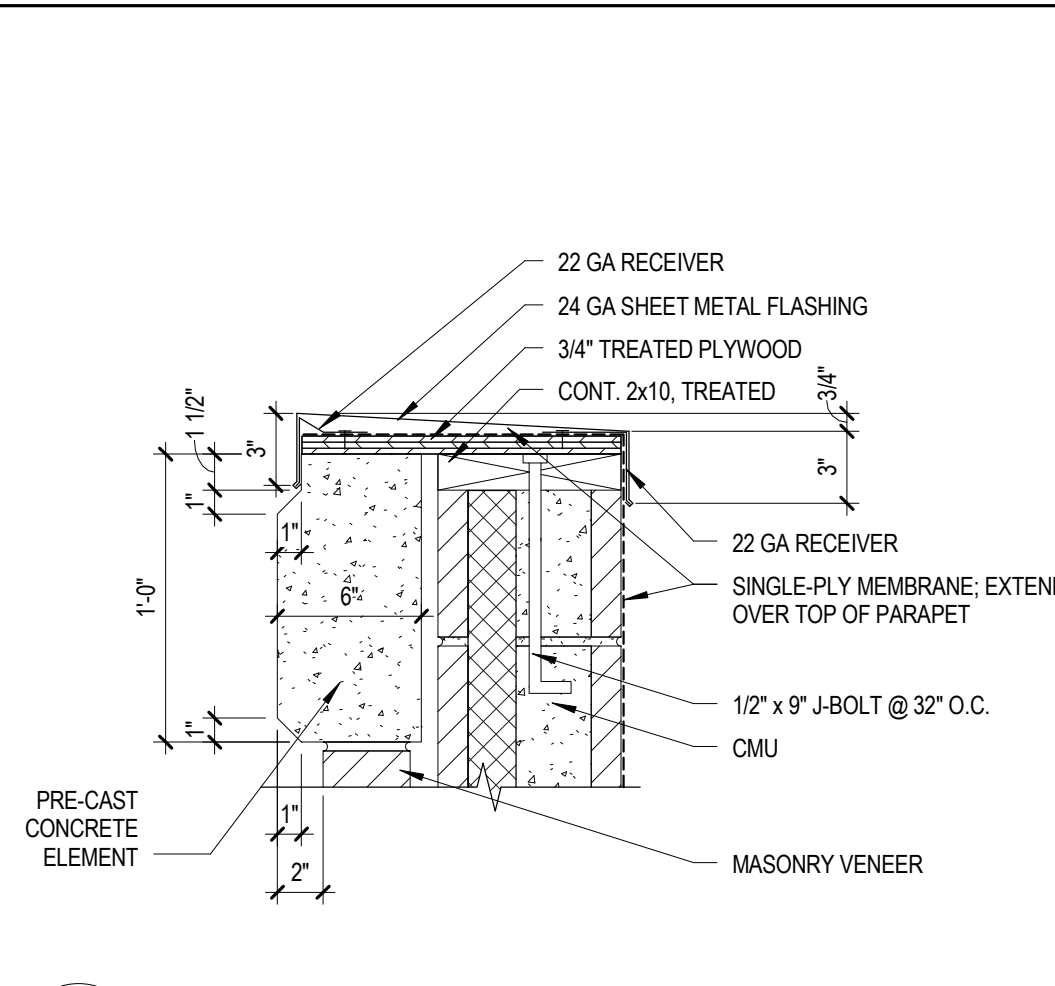




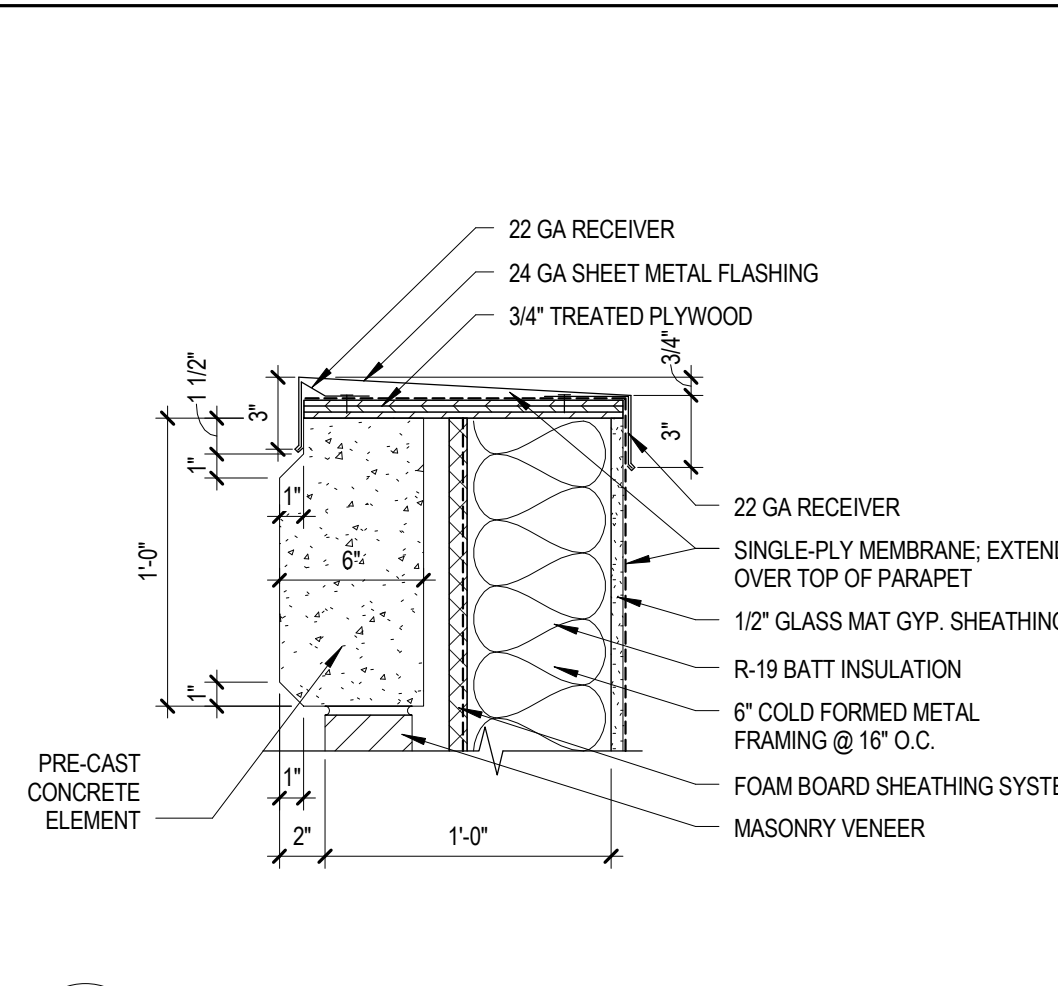
E6 ROOF HATCH DETAIL  
AE542 SCALE 3" = 1'-0"



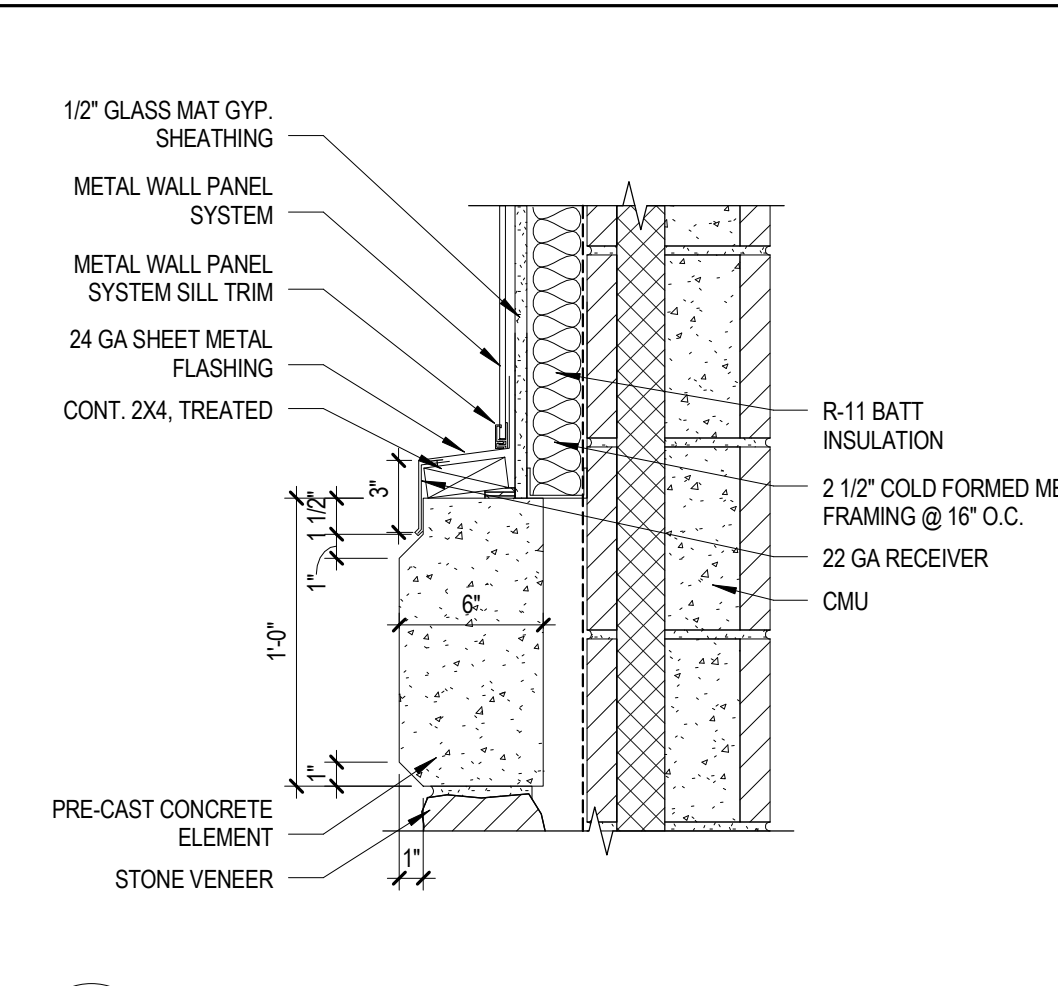
E5 PARAPET DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



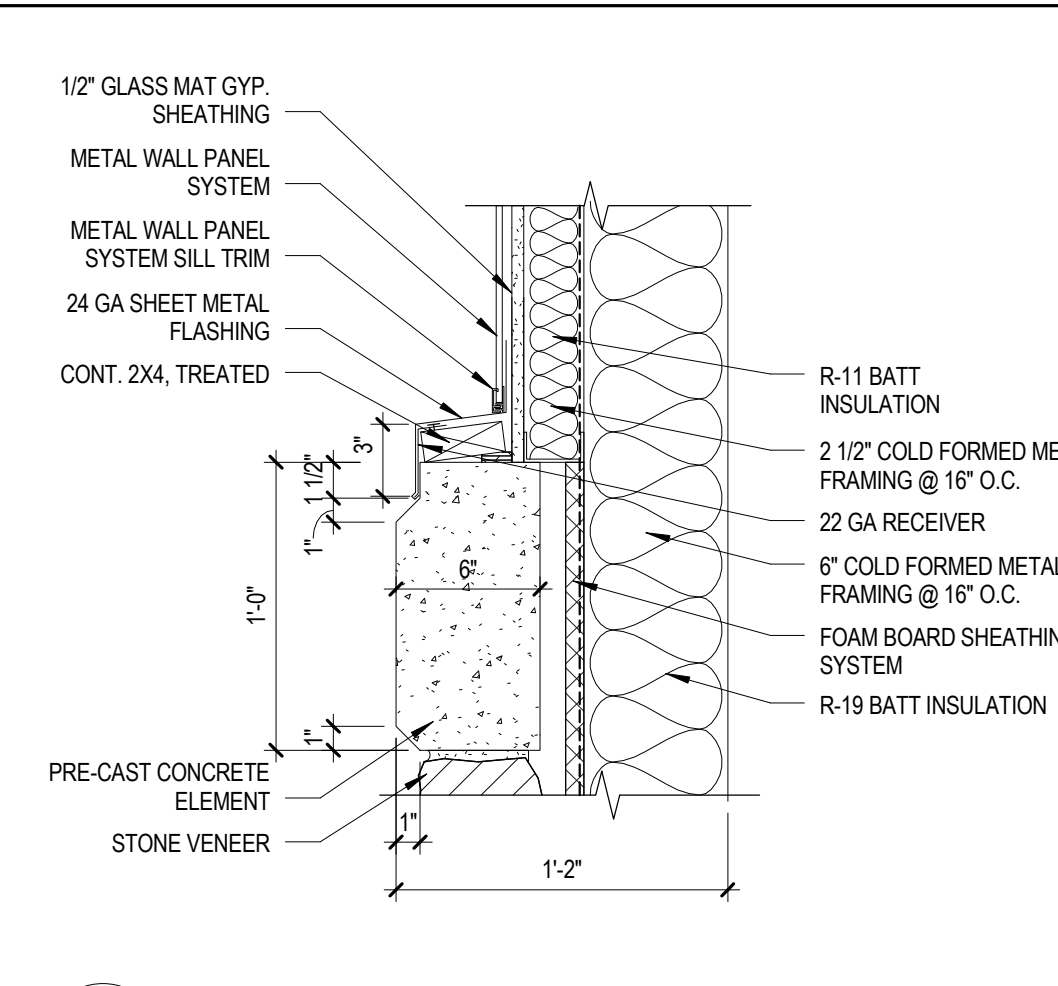
E4 PARAPET DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



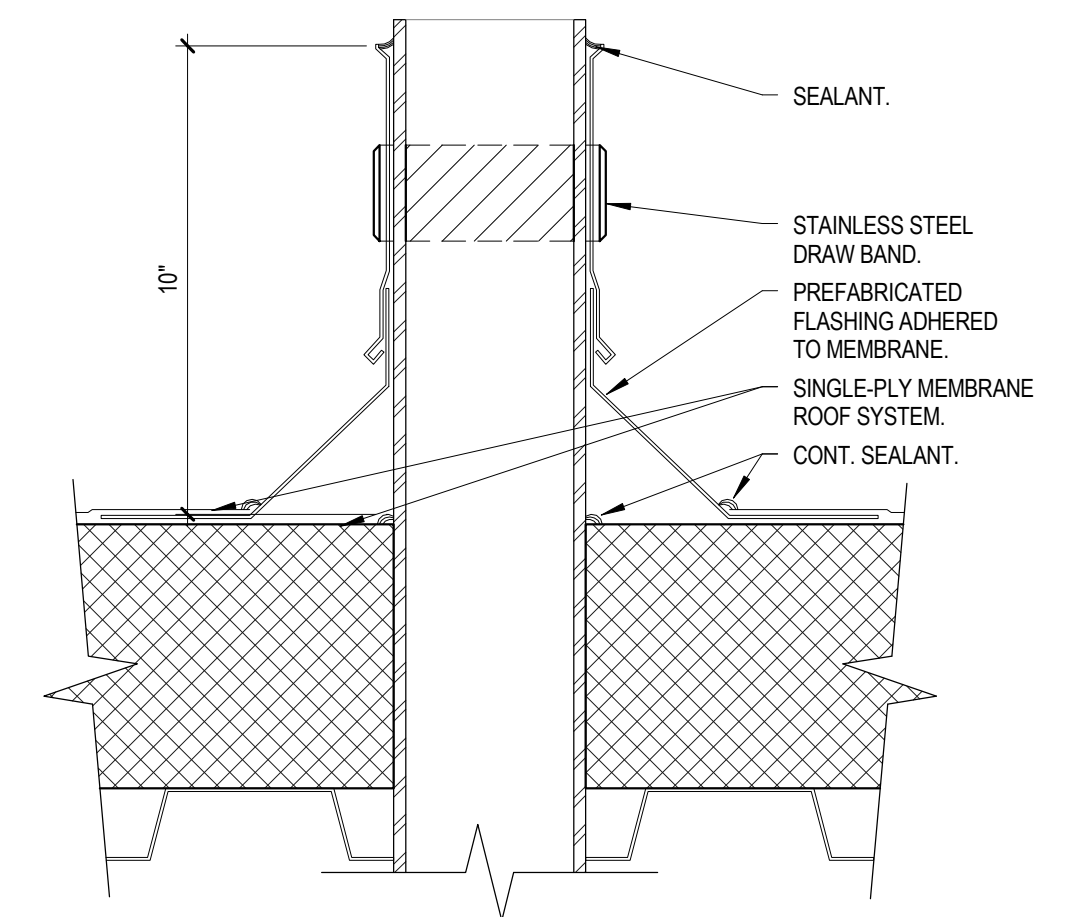
E3 PARAPET DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



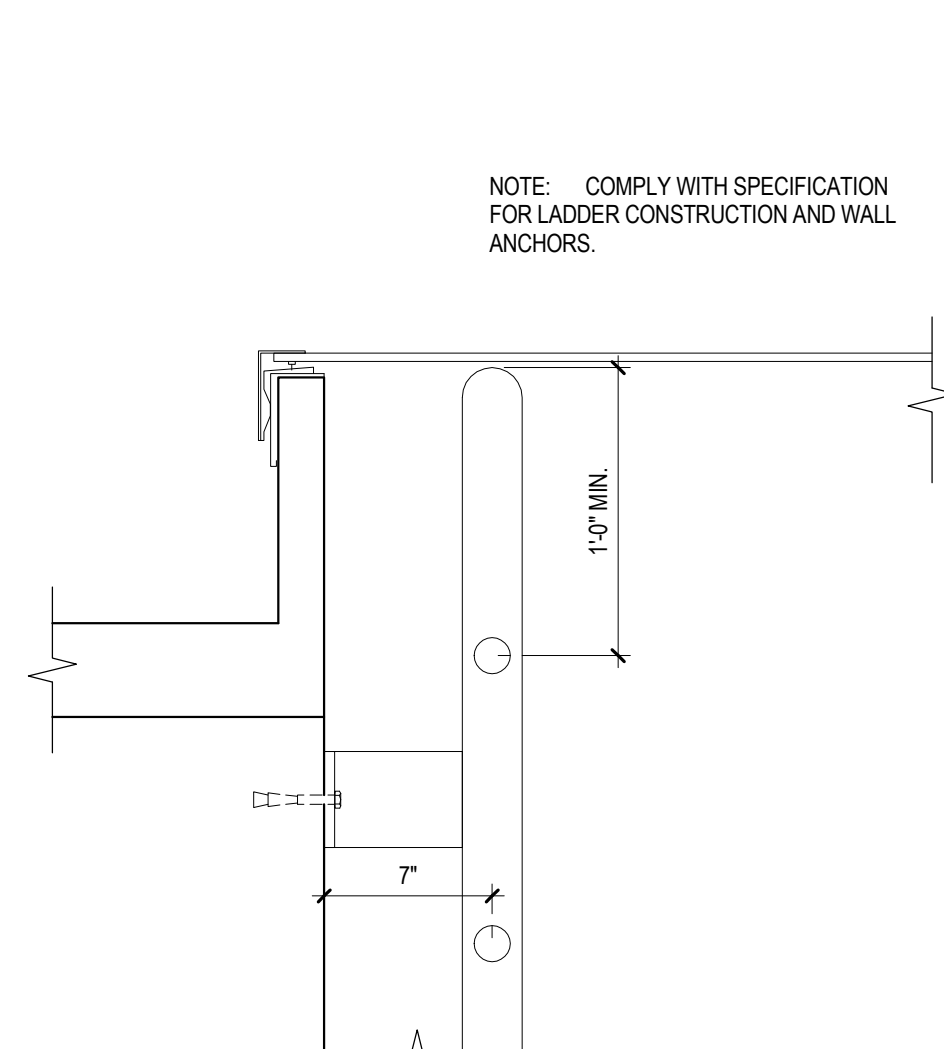
E2 EXTERIOR WALL DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



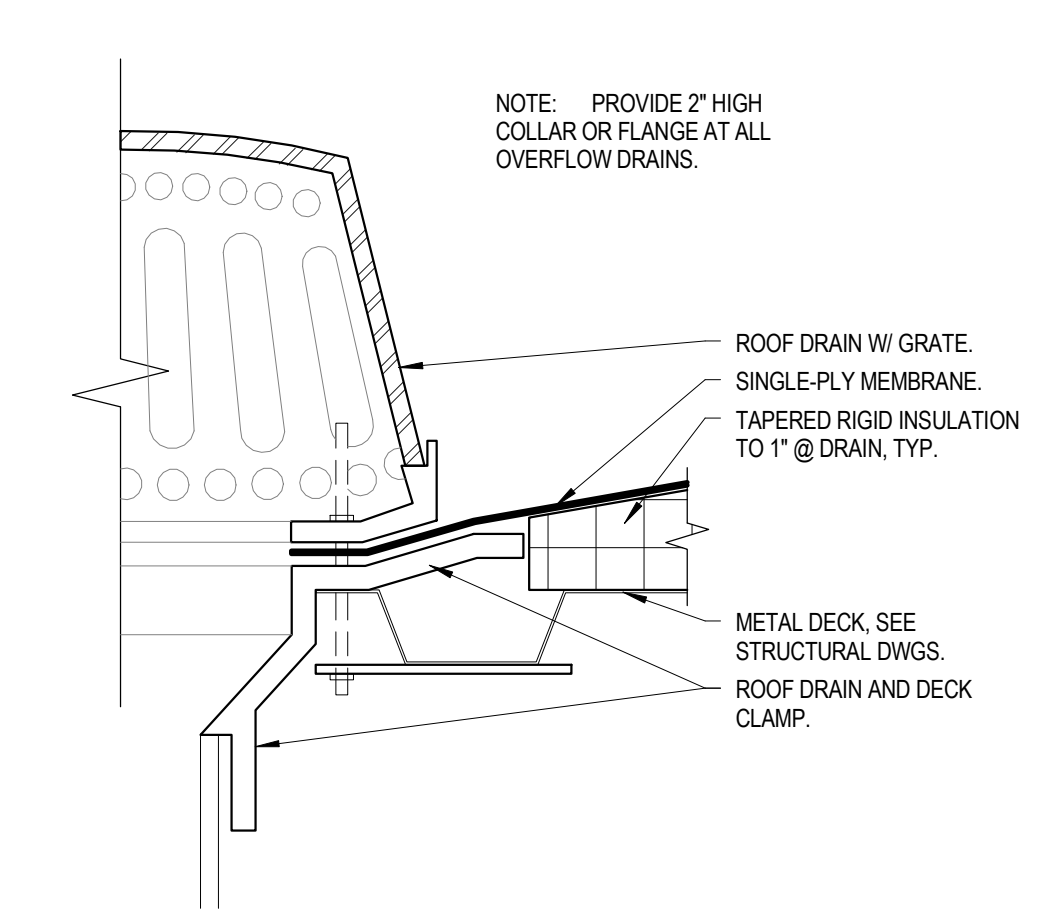
E1 EXTERIOR WALL DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



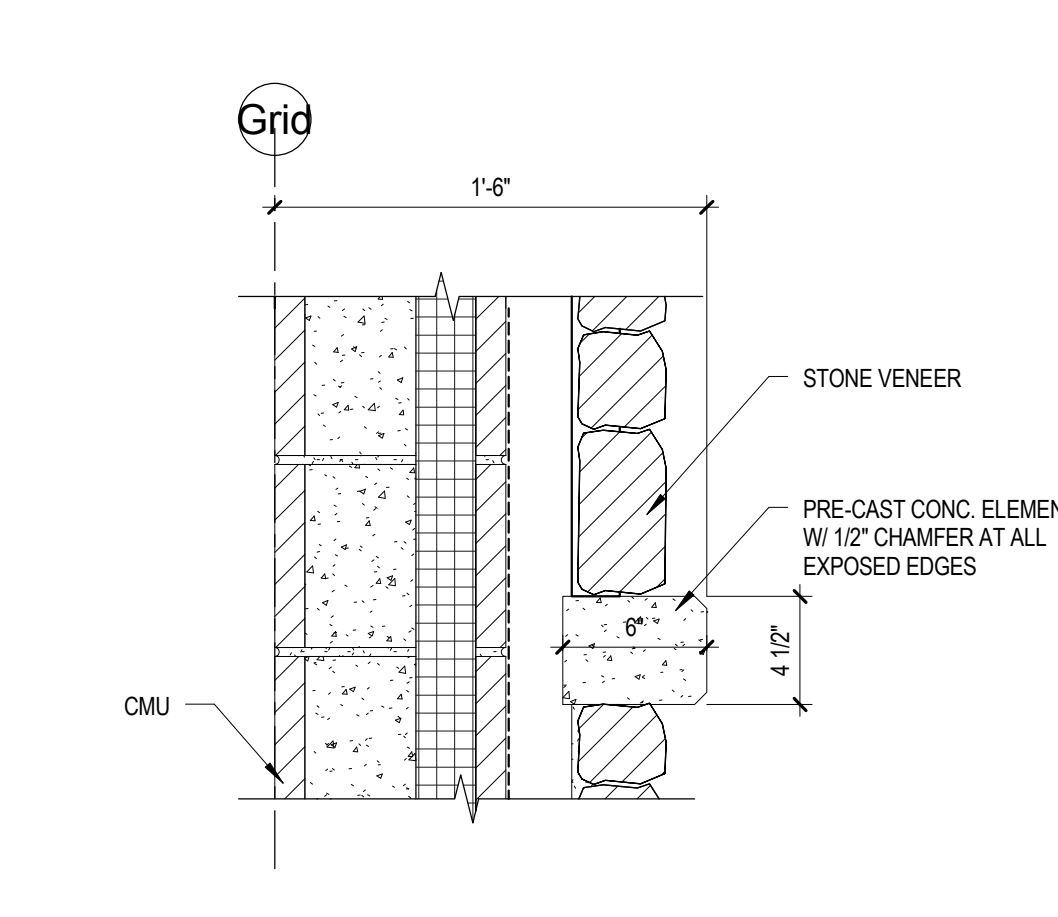
D6 ROOF VENT PENETRATION DETAIL  
AE542 SCALE 3" = 1'-0"



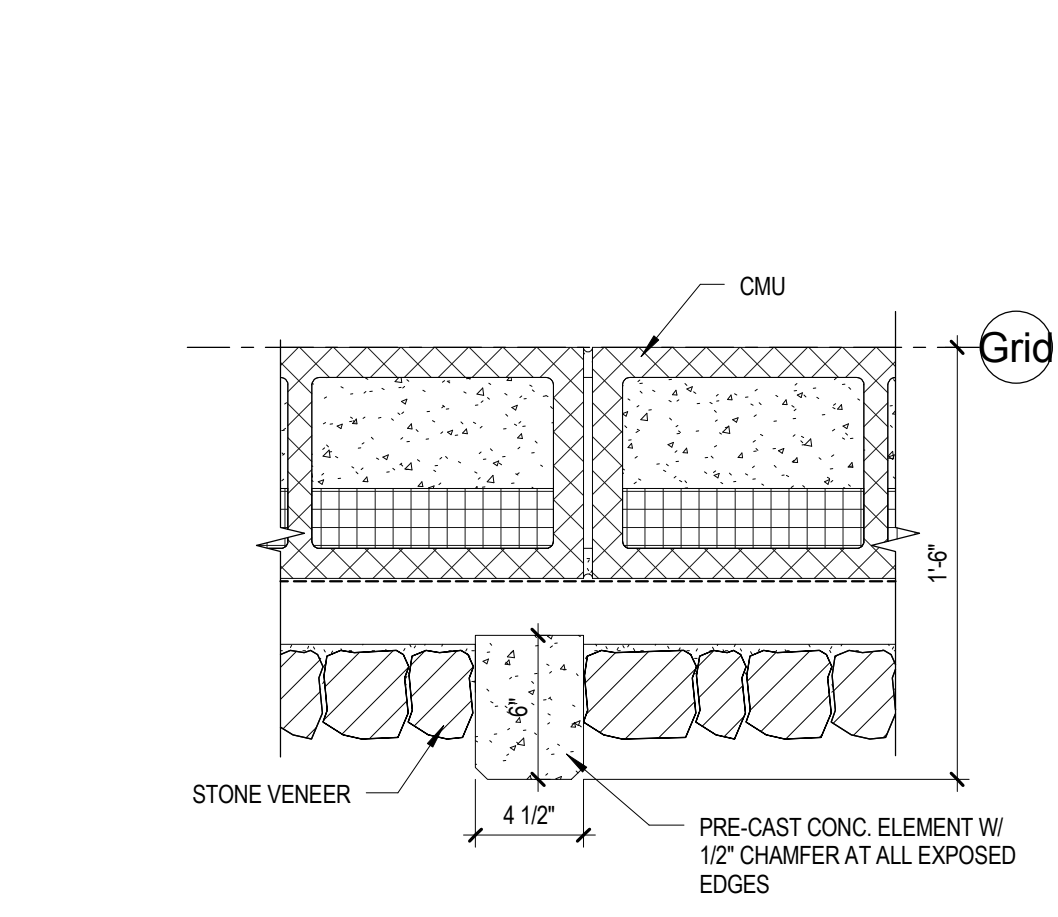
C5 ACCESS LADDER DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



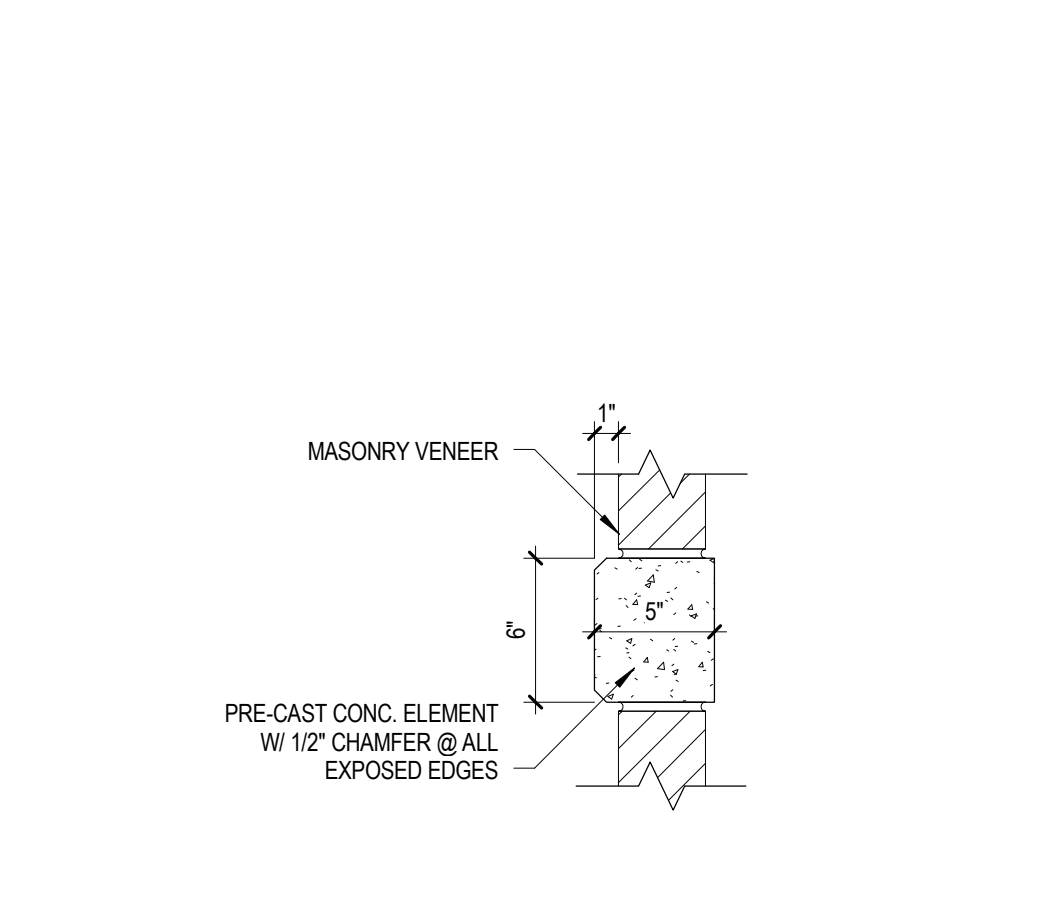
D4 ROOF/OVERFLOW DRAIN DETAIL  
AE542 SCALE 3" = 1'-0"



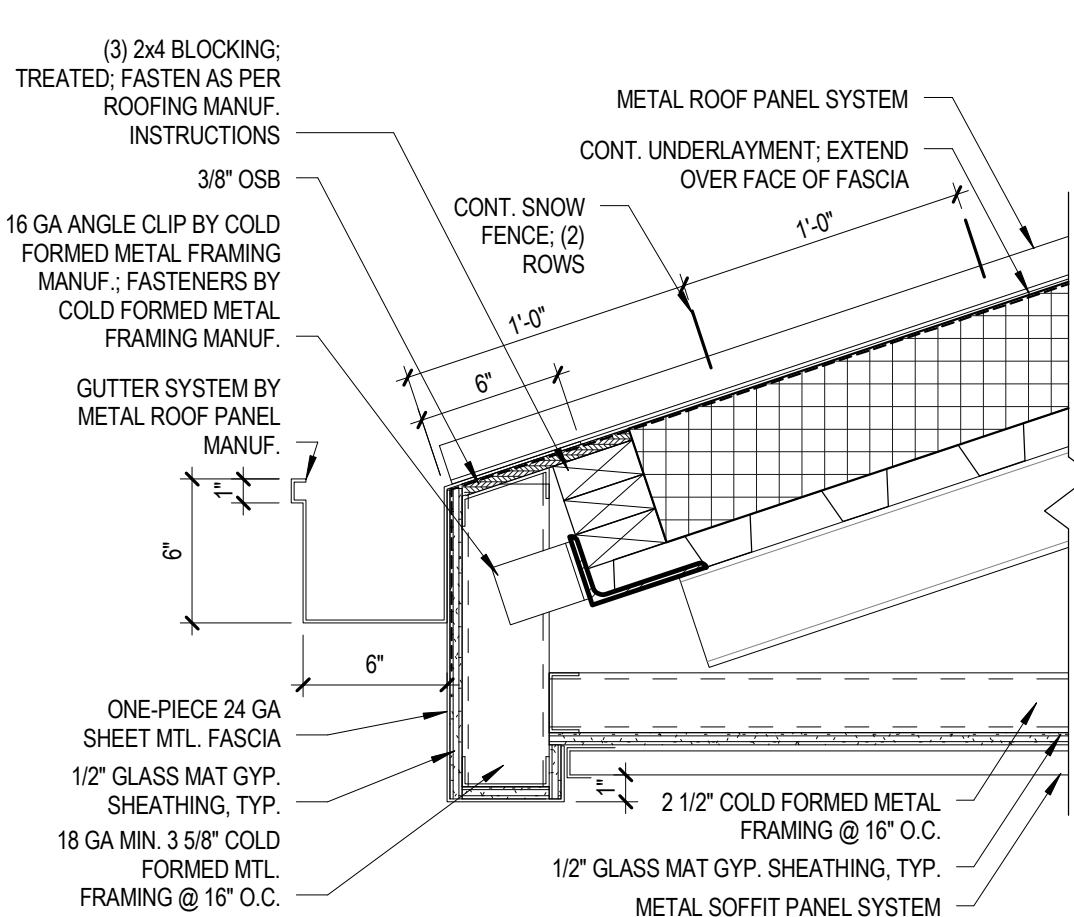
D3 EXTERIOR SILL DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



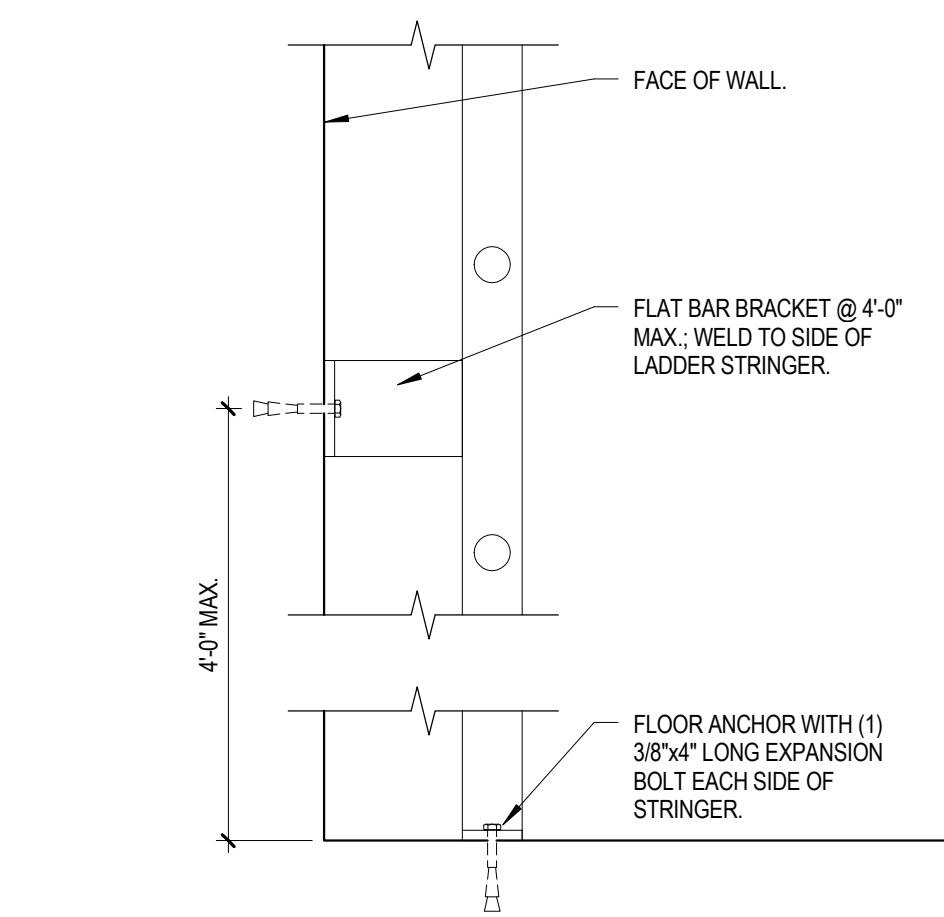
D2 JAMB DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



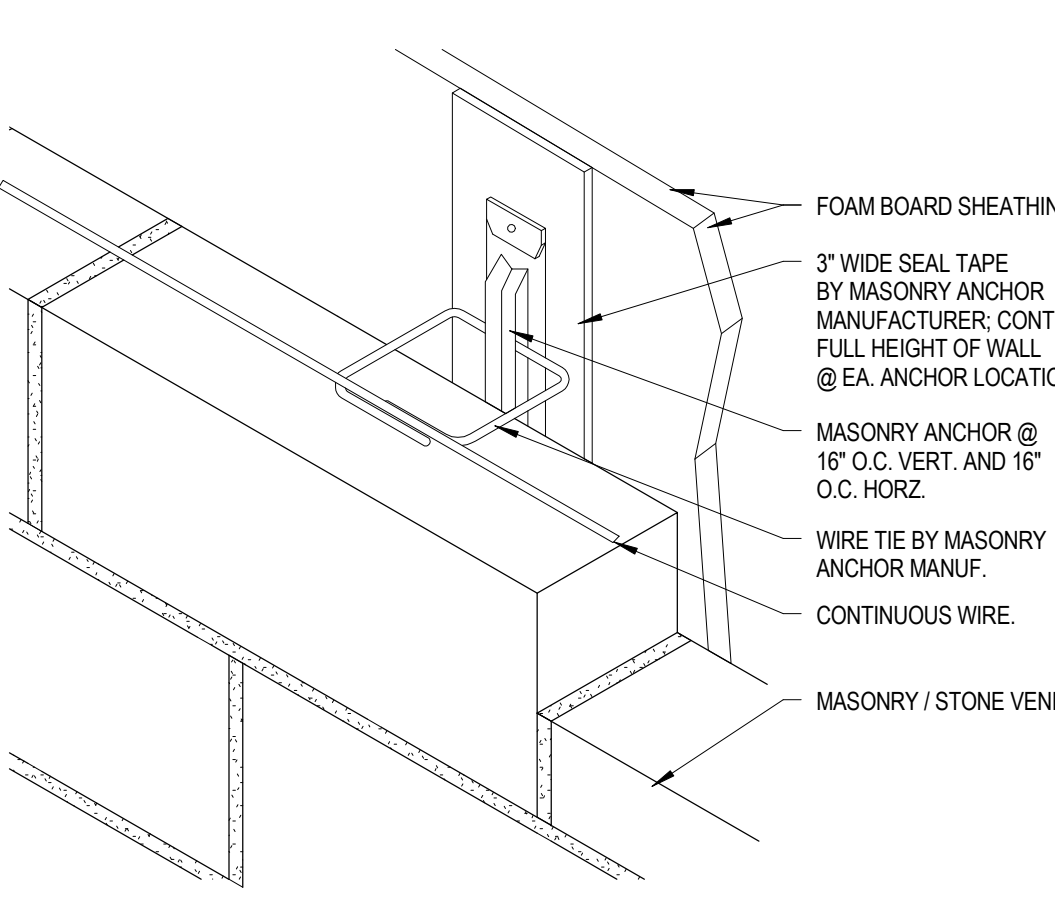
D1 PRE-CAST CONC. ELEMENT DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



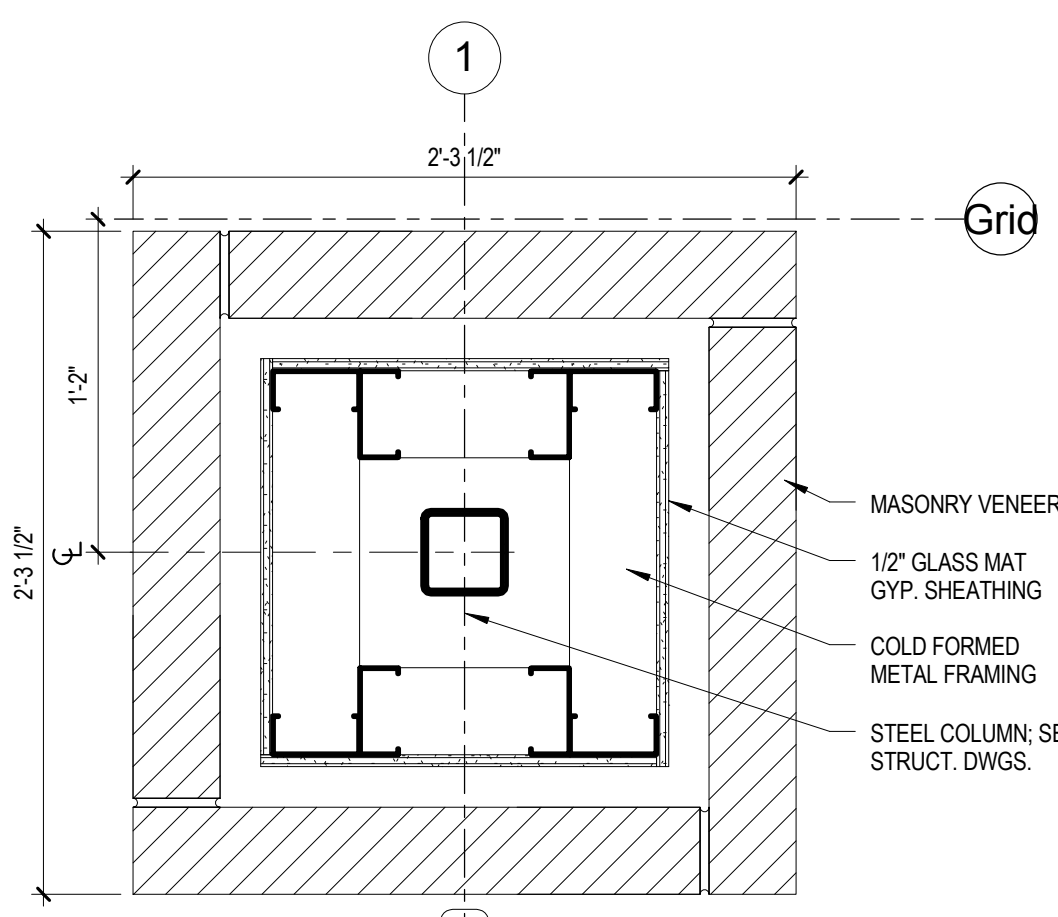
C6 EAVE DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



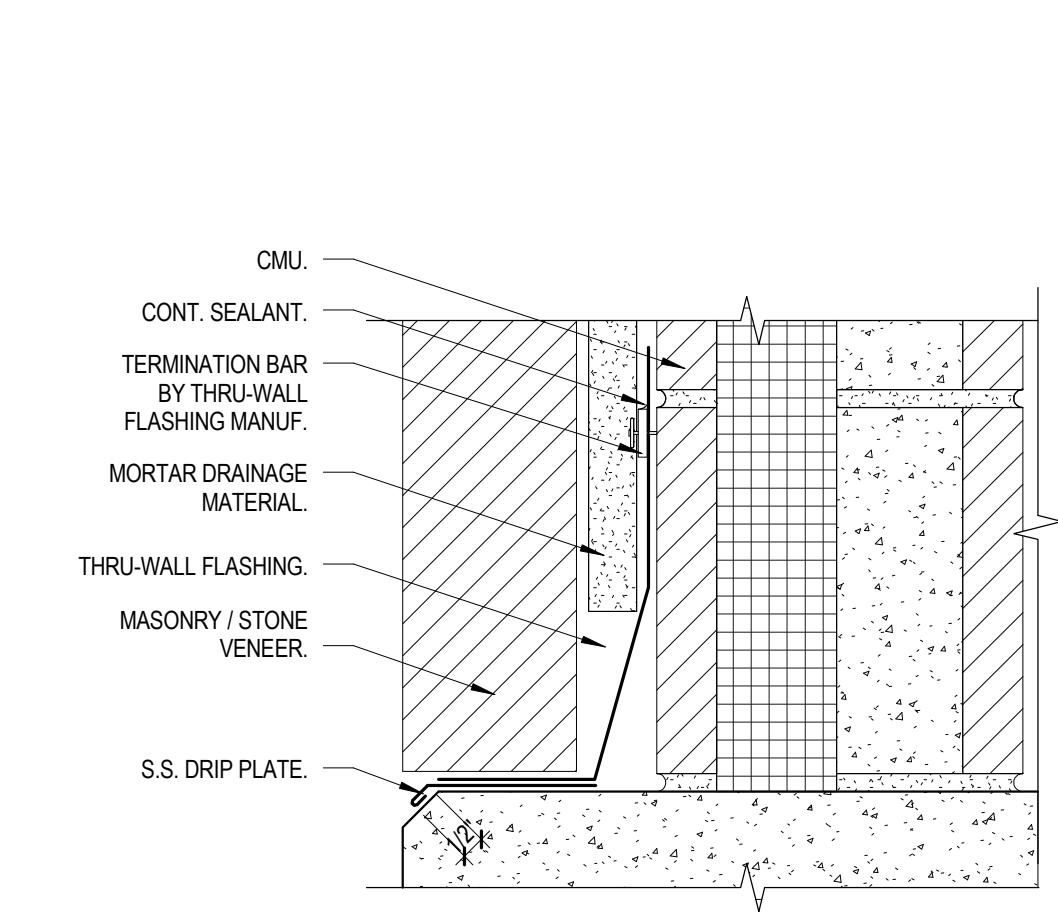
C5 ACCESS LADDER DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



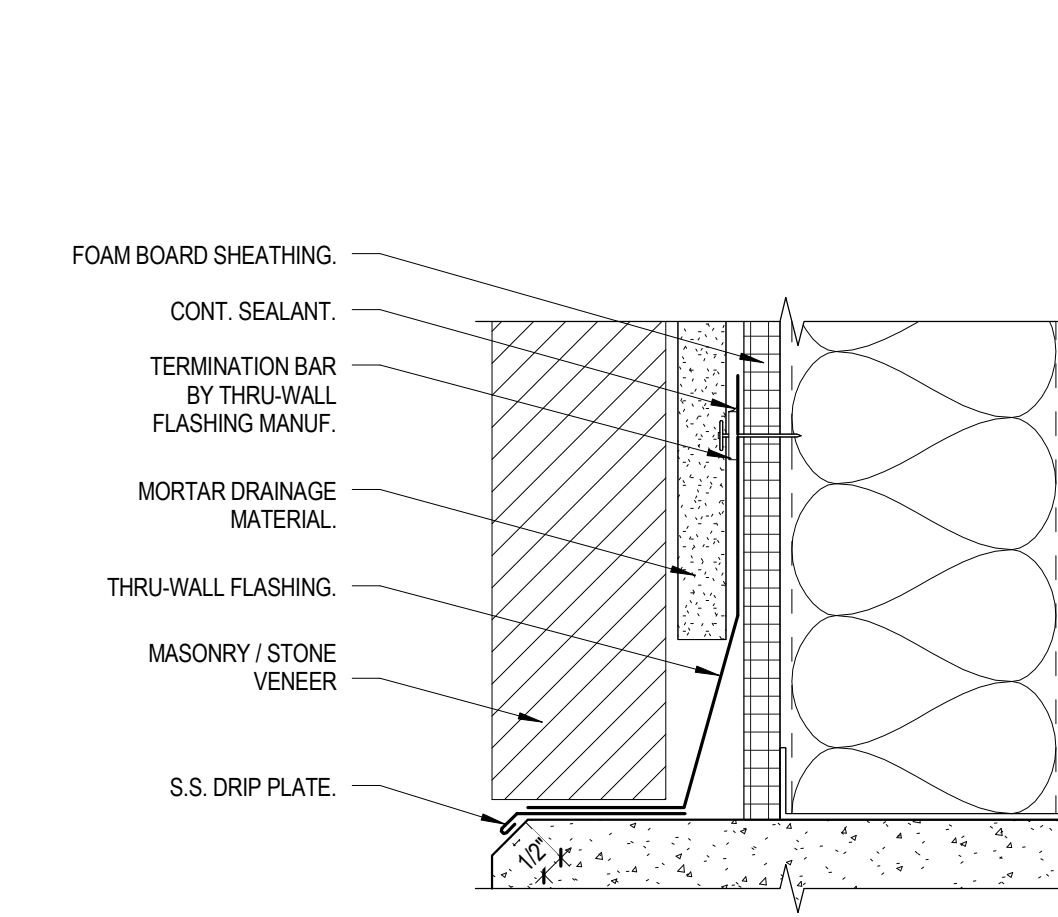
C4 MASONRY ANCHOR DETAIL  
AE542 SCALE N.T.S.



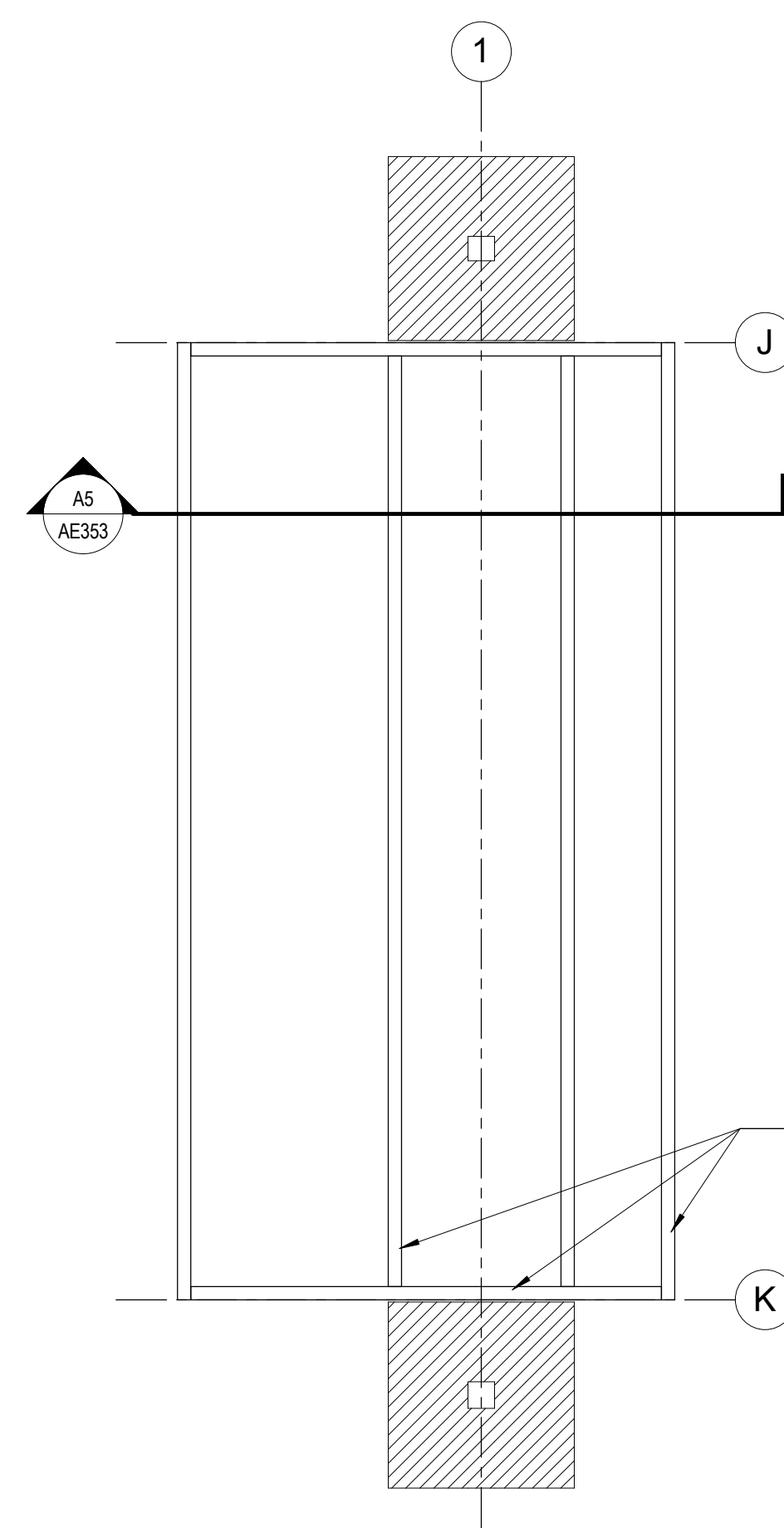
C3 COLUMN DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



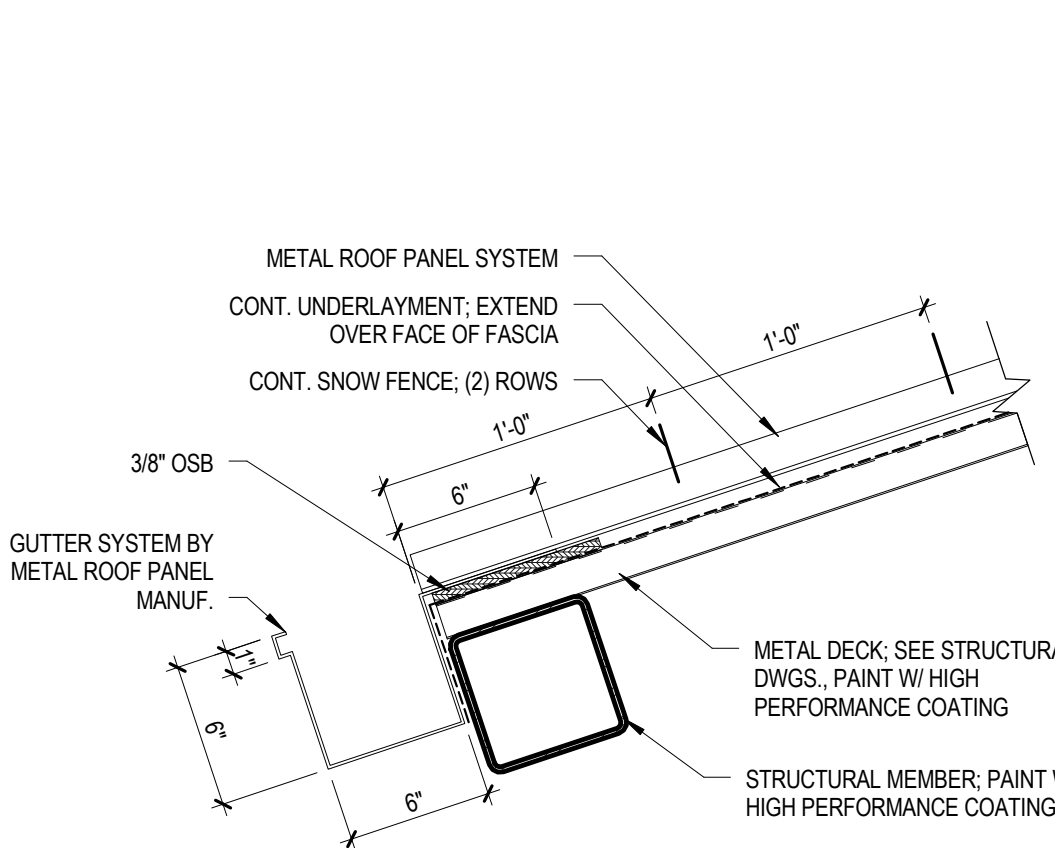
C2 THRU-WALL FLASHING DETAIL  
AE542 SCALE 3" = 1'-0"



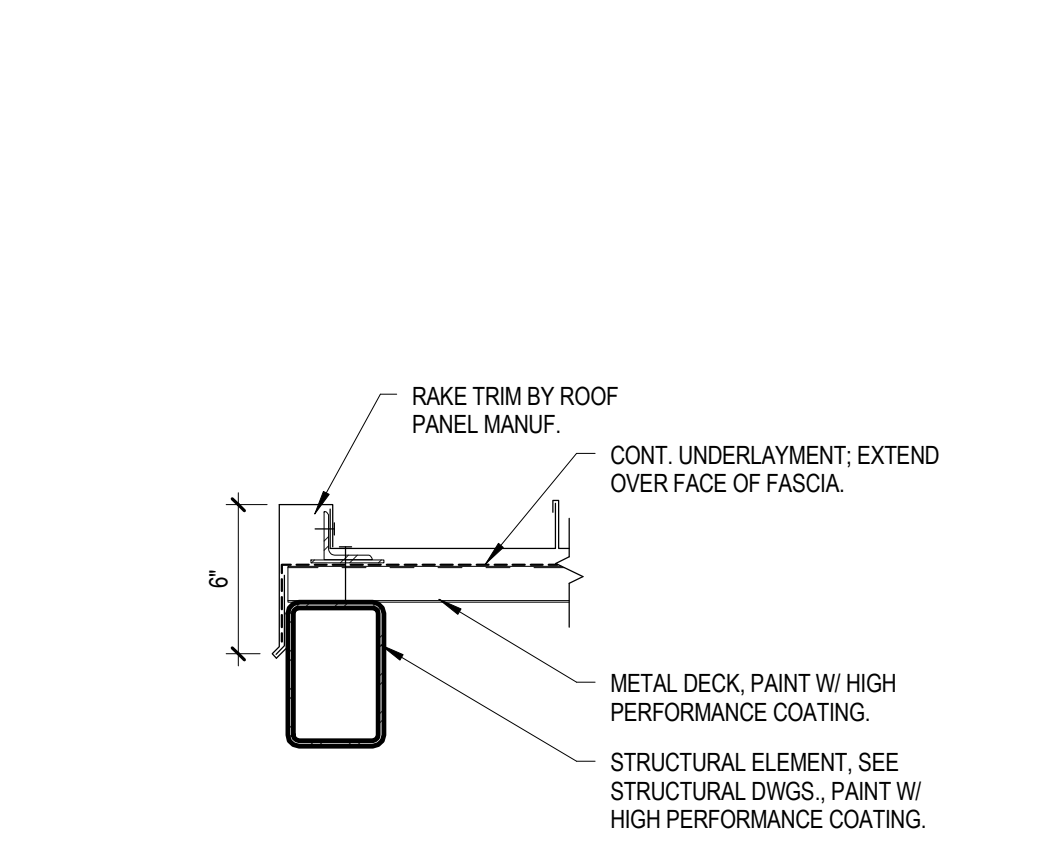
C1 THRU-WALL FLASHING DETAIL  
AE542 SCALE 3" = 1'-0"



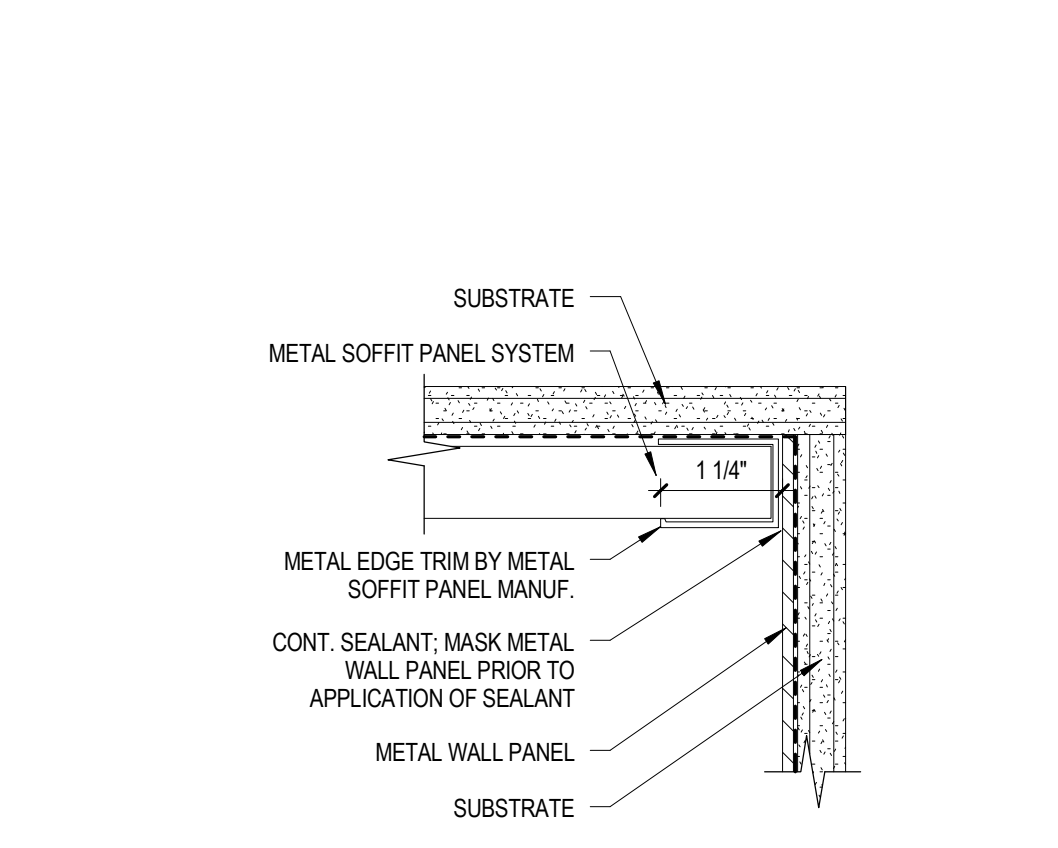
A5 CANOPY PLAN  
AE542 SCALE 1/2" = 1'-0"



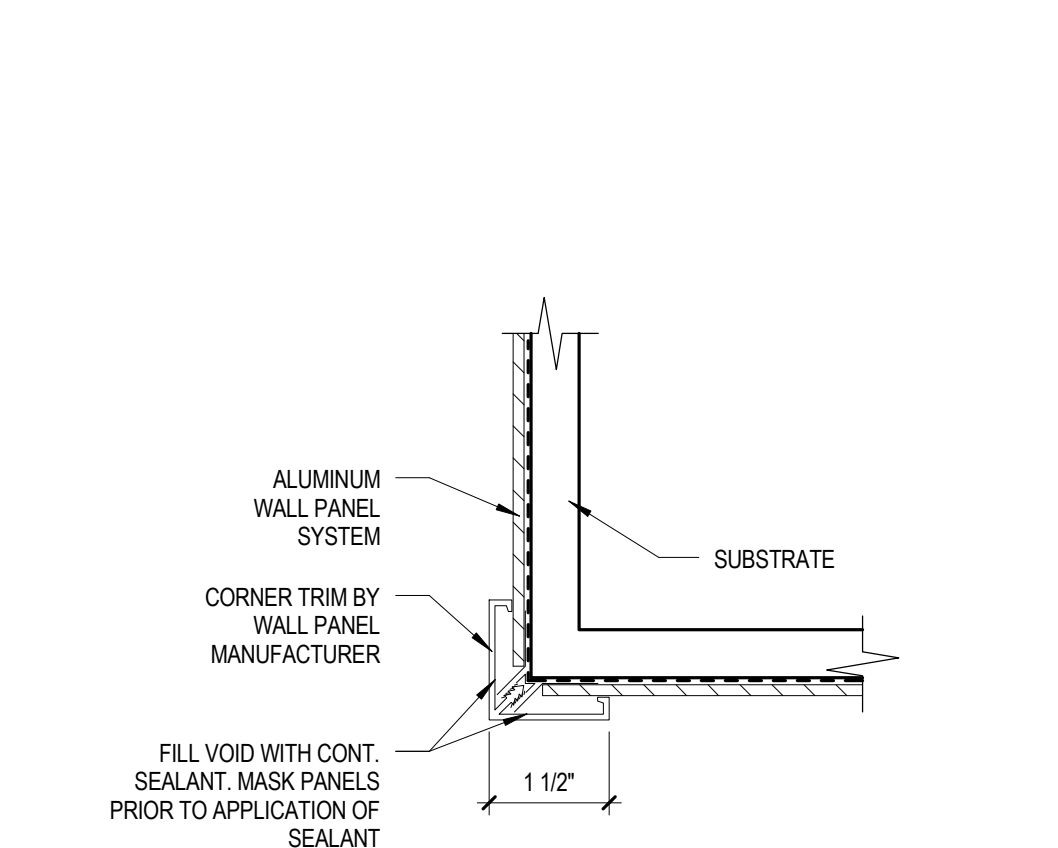
B4 EAVE DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



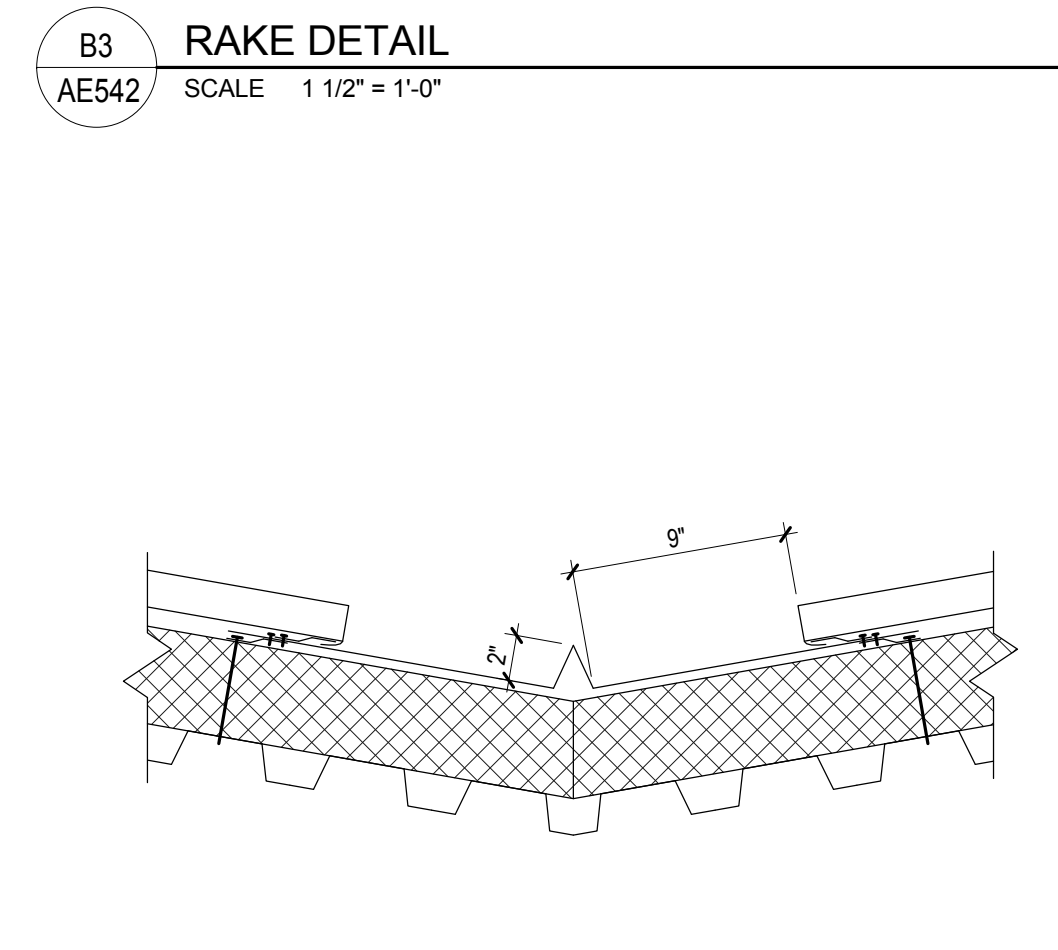
B3 RAKE DETAIL  
AE542 SCALE 1 1/2" = 1'-0"



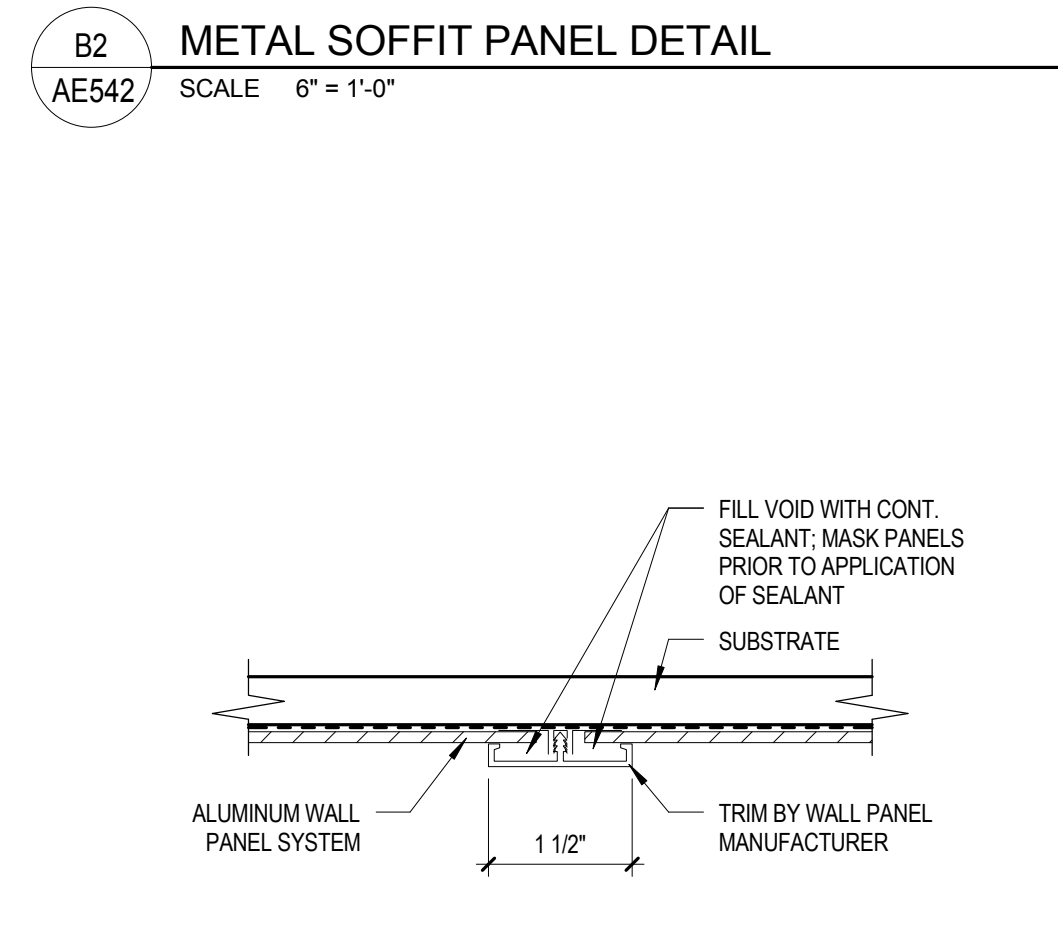
B2 METAL SOFFIT PANEL DETAIL  
AE542 SCALE 6" = 1'-0"



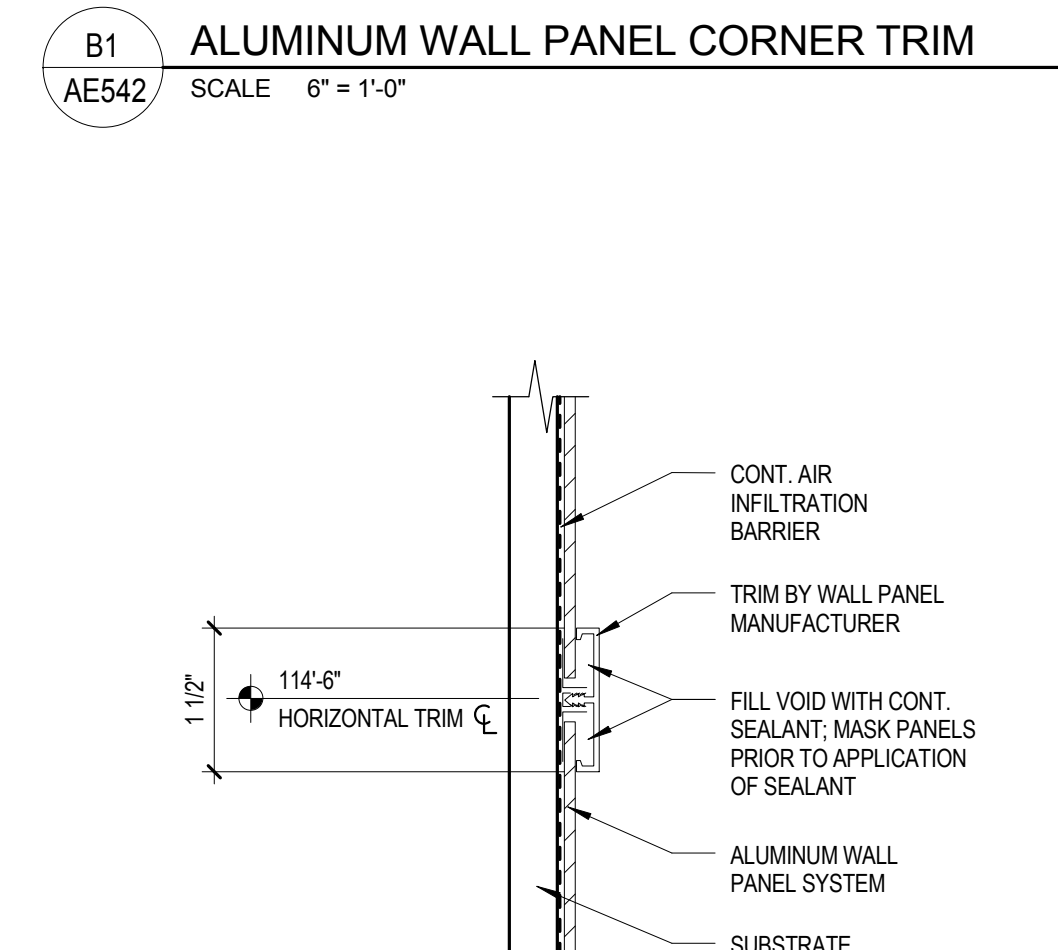
B1 ALUMINUM WALL PANEL CORNER TRIM  
AE542 SCALE 6" = 1'-0"



A3 VALLEY FLASHING  
AE542 SCALE 1 1/2" = 1'-0"



A2 ALUMINUM WALL PANEL JOINT - HORIZ.  
AE542 SCALE 6" = 1'-0"



A1 ALUMINUM WALL PANEL REVEAL JOINT - VERT.  
AE542 SCALE 6" = 1'-0"

## KAYSVILLE CITY POLICE STATION

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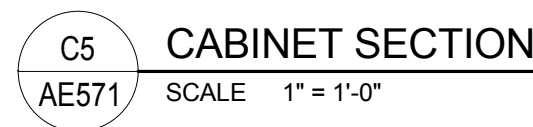
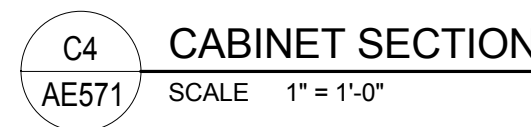
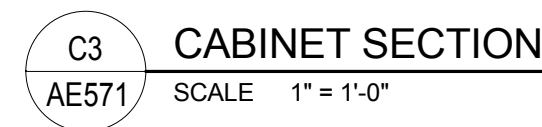
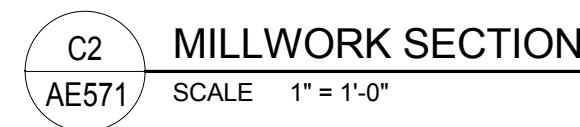
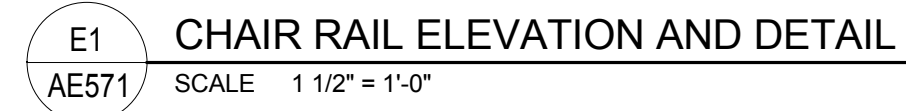
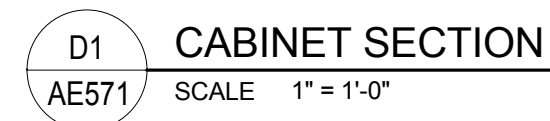
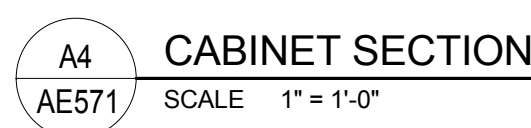
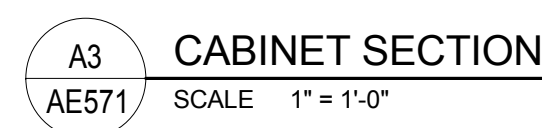
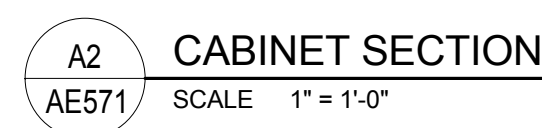
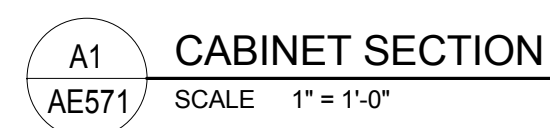
DATE/REVISION  
12-03-2013

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10002

BUILDING  
DETAILS

AE542

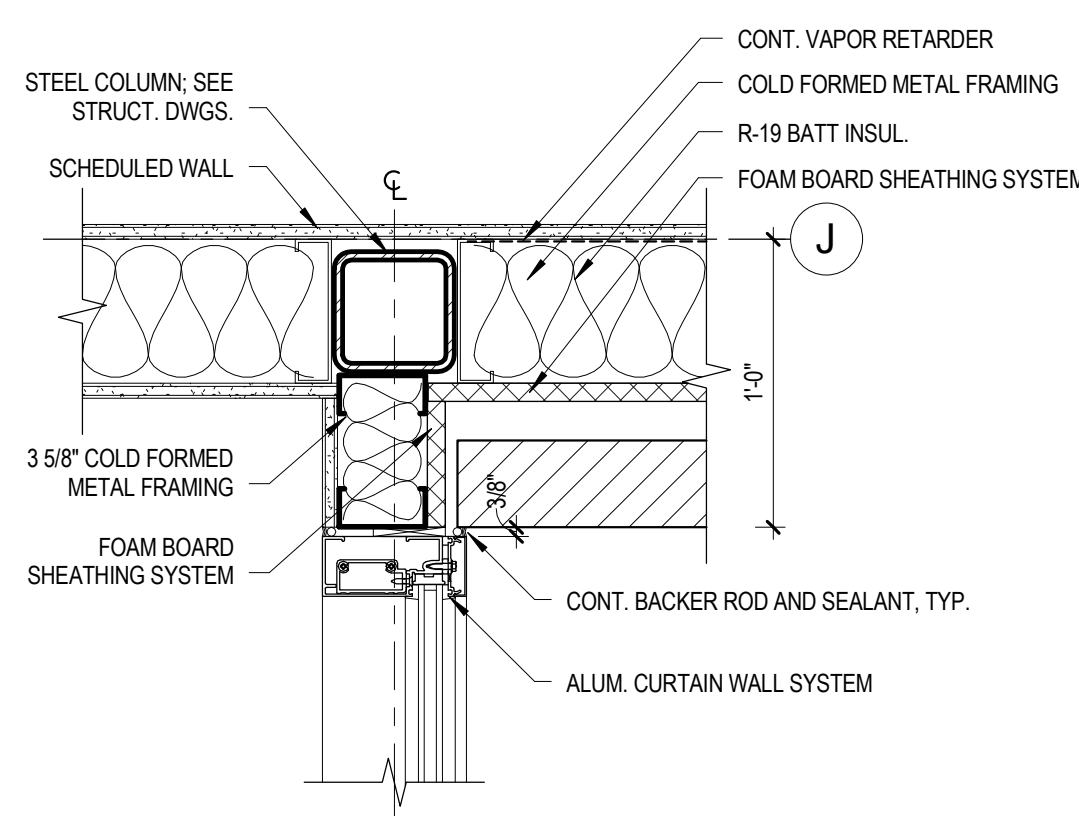




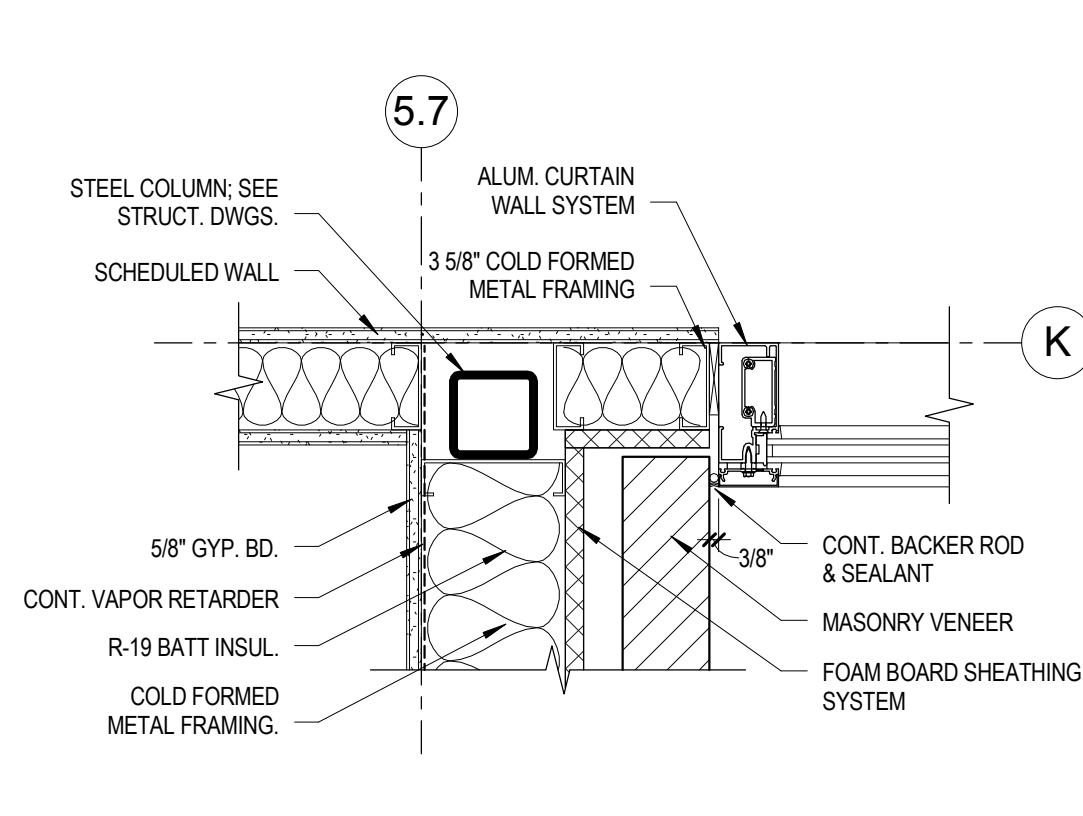
## AE571



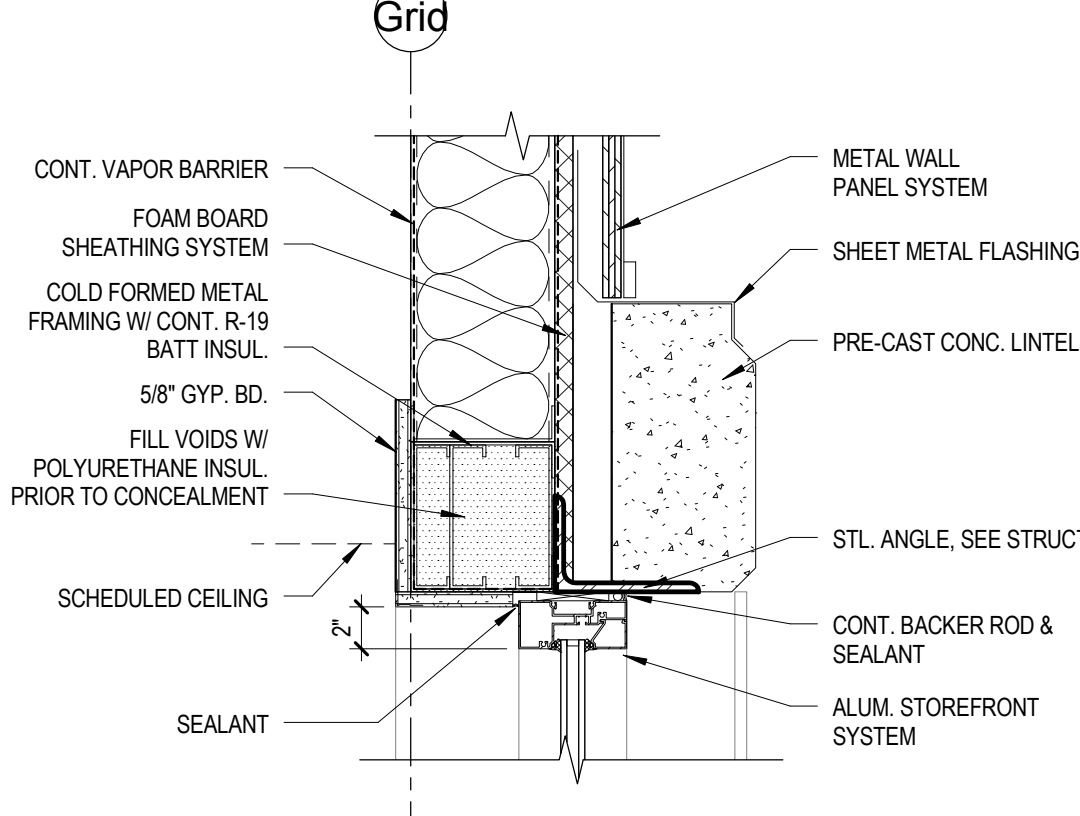
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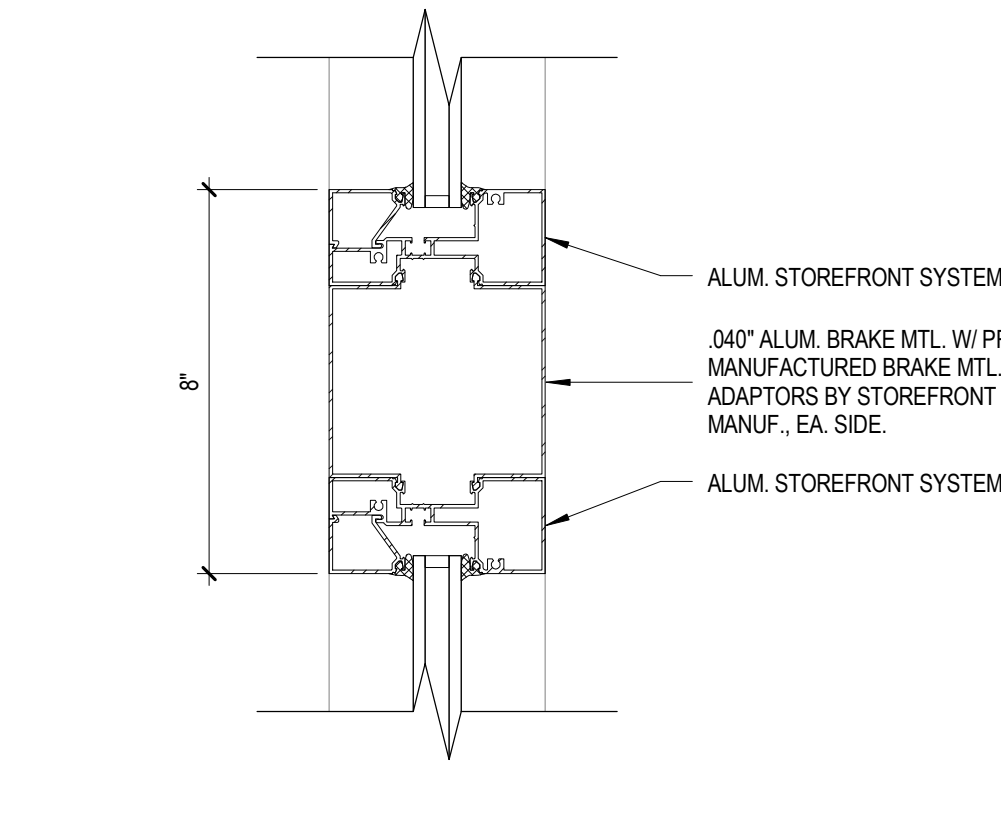
E4 CURTAIN WALL JAMB DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



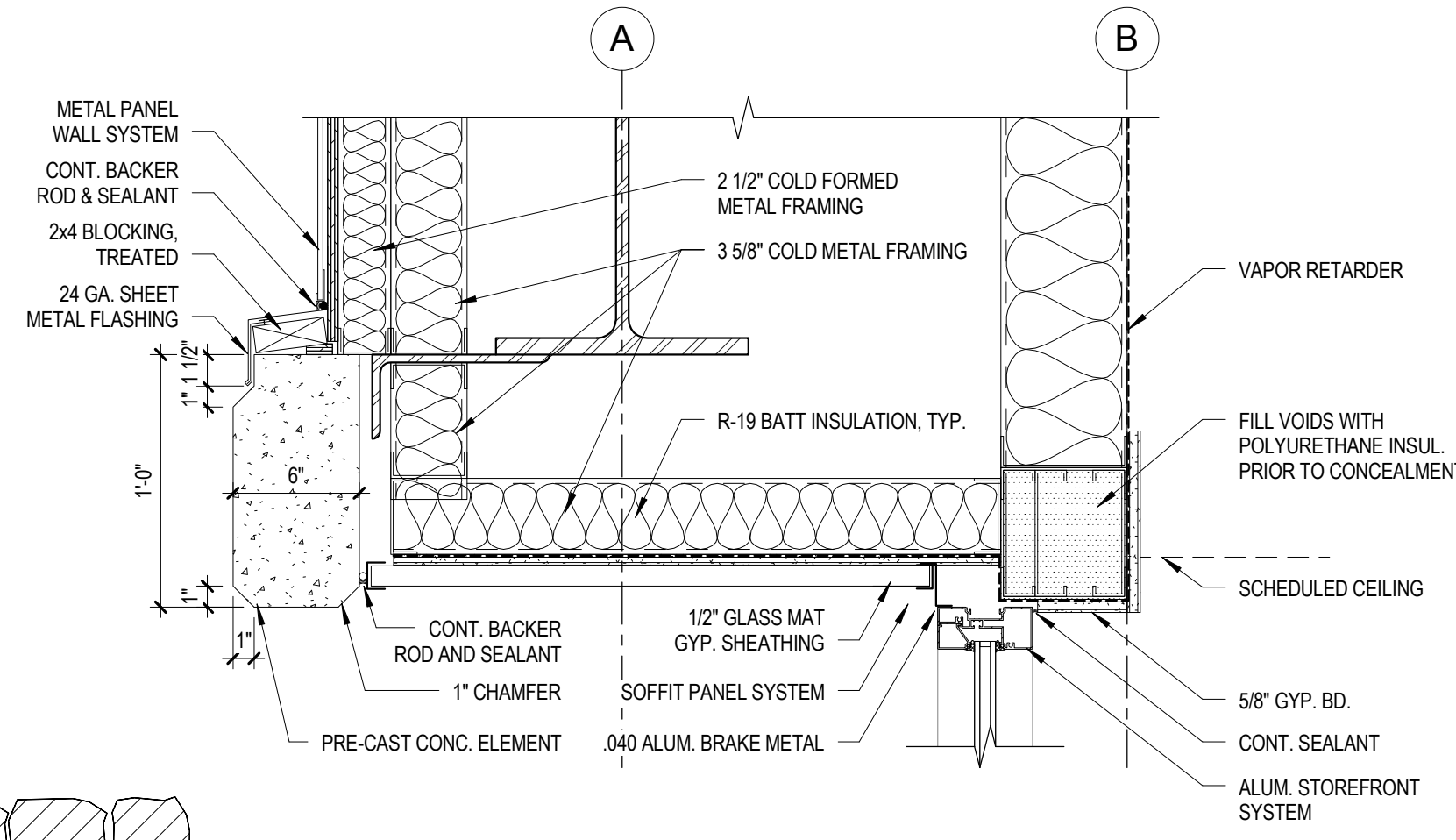
E3 CURTAIN WALL JAMB DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



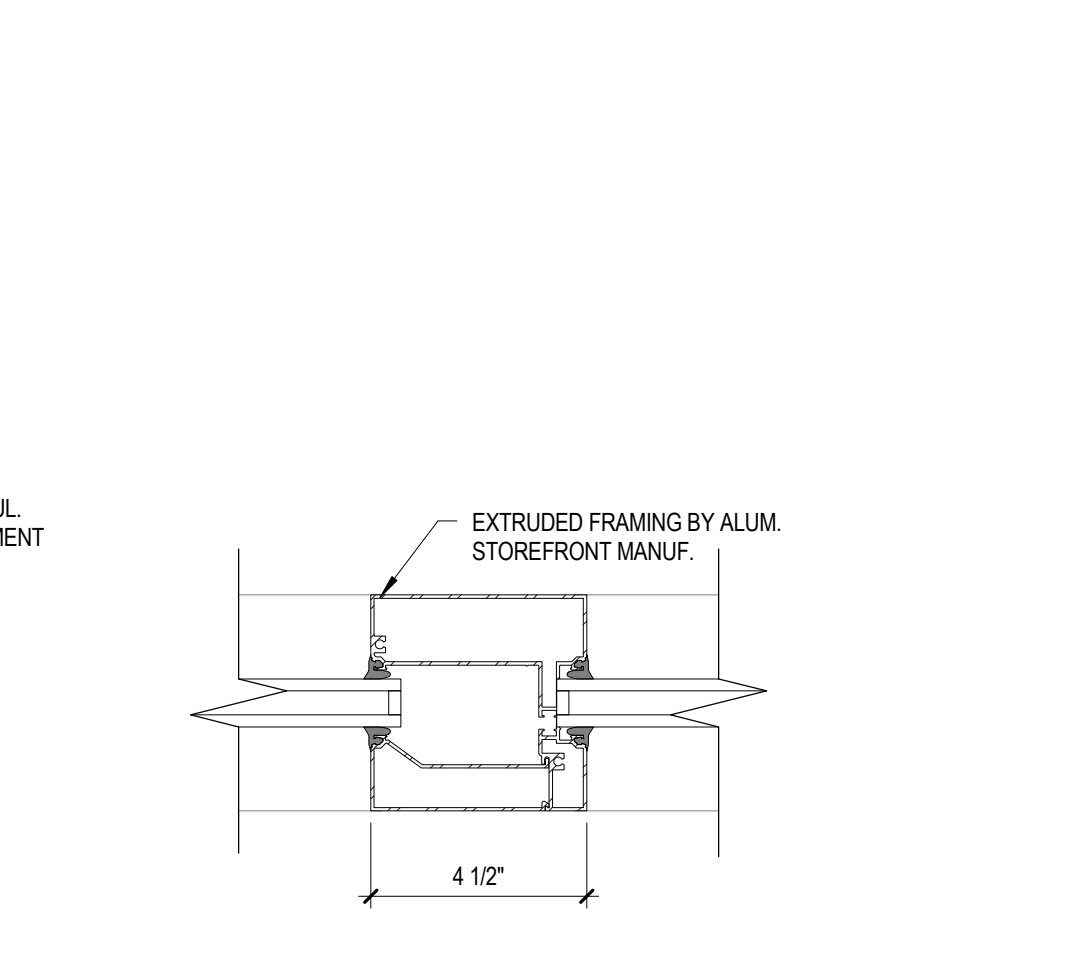
E2 STOREFRONT HEAD DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



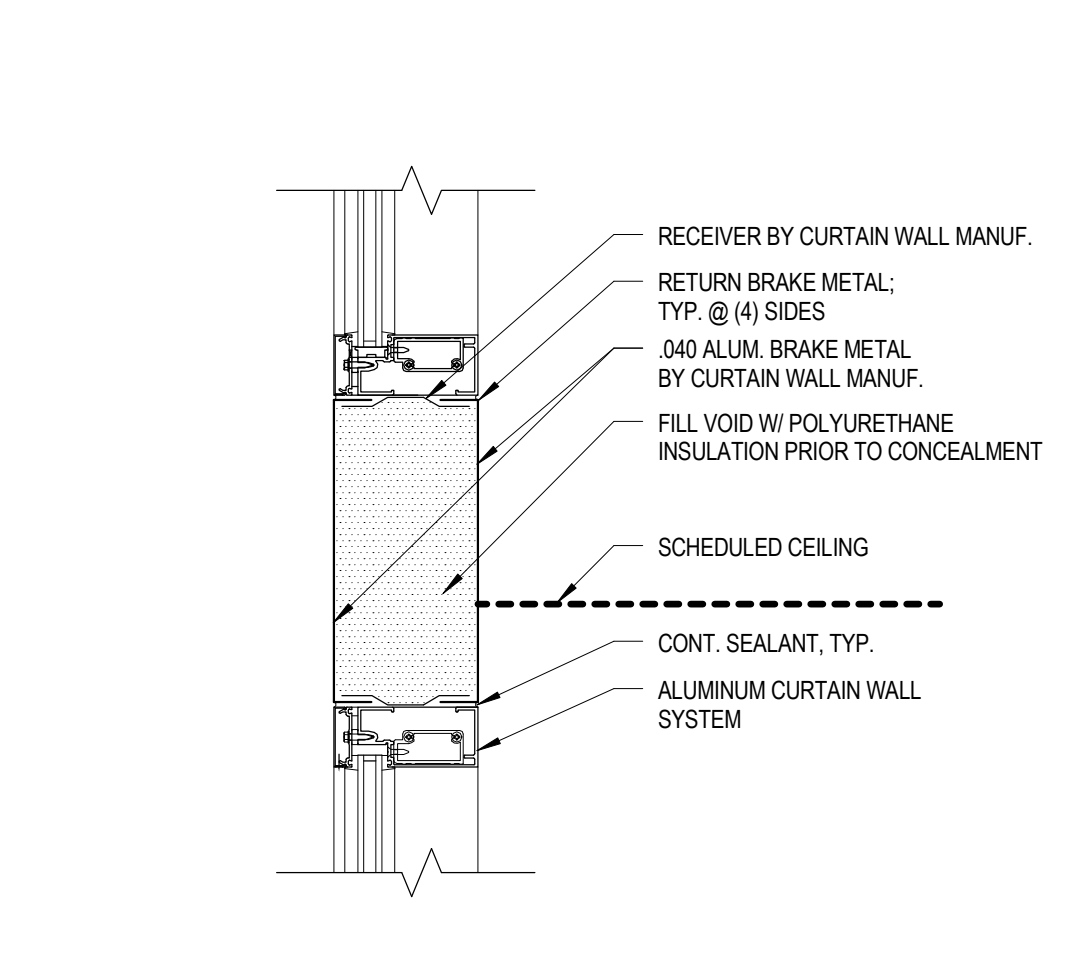
E1 STOREFRONT MULLION DETAIL  
AE591 SCALE 3" = 1'-0"



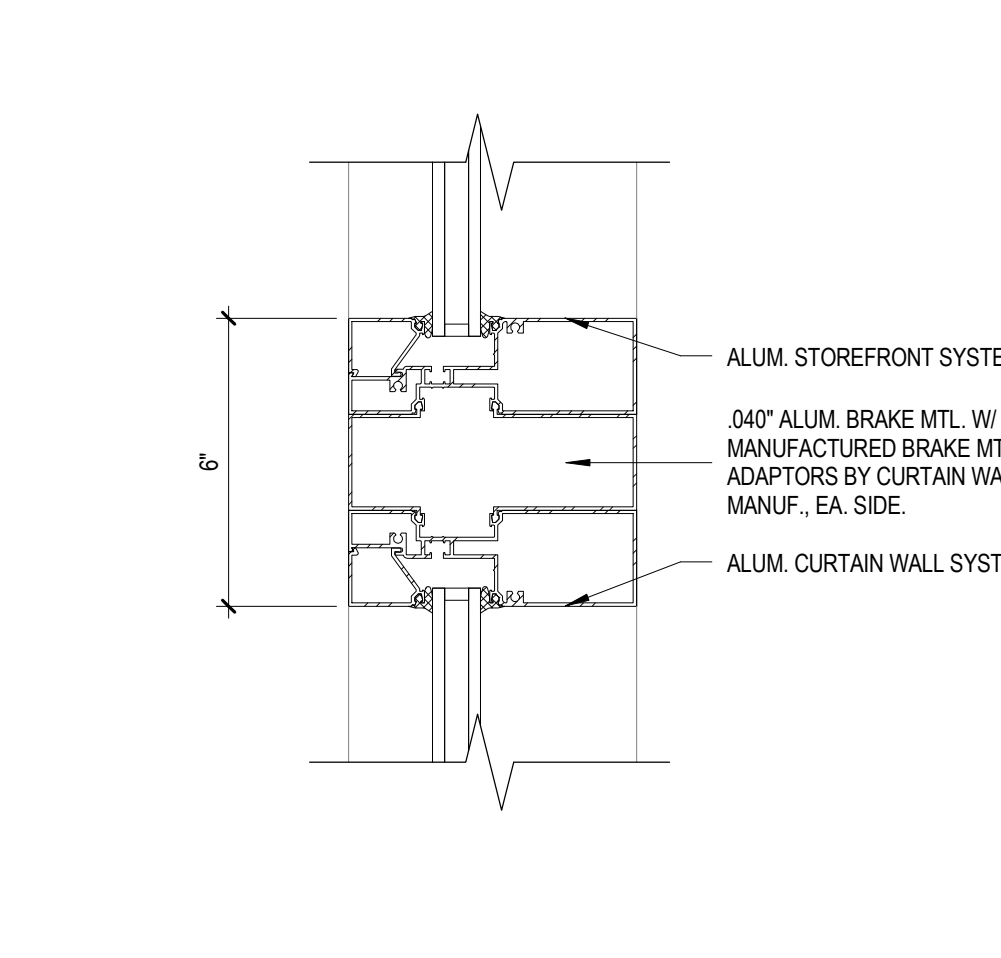
D4 STOREFRONT HEAD DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



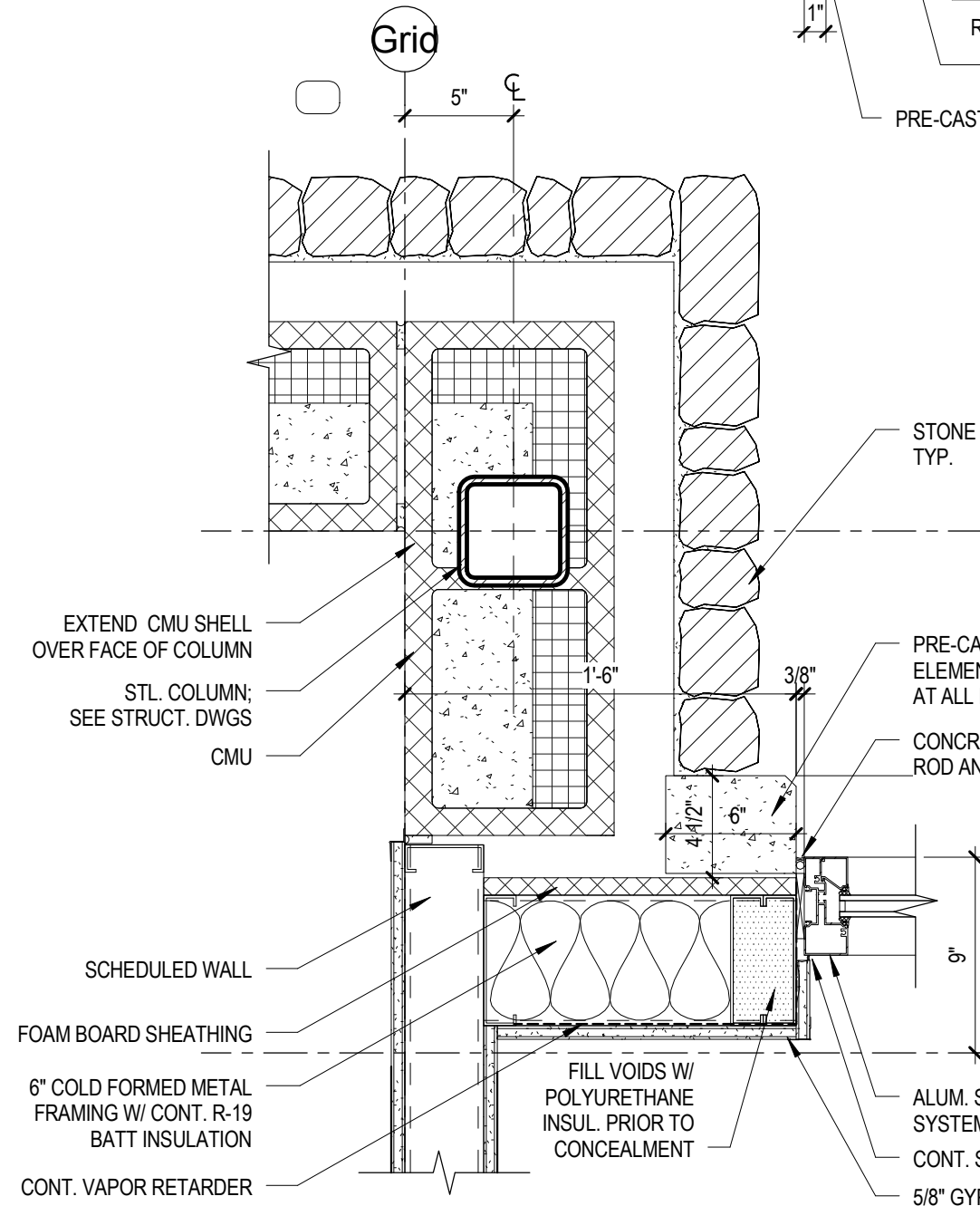
D3 STOREFRONT MULLION DETAIL  
AE591 SCALE 3" = 1'-0"



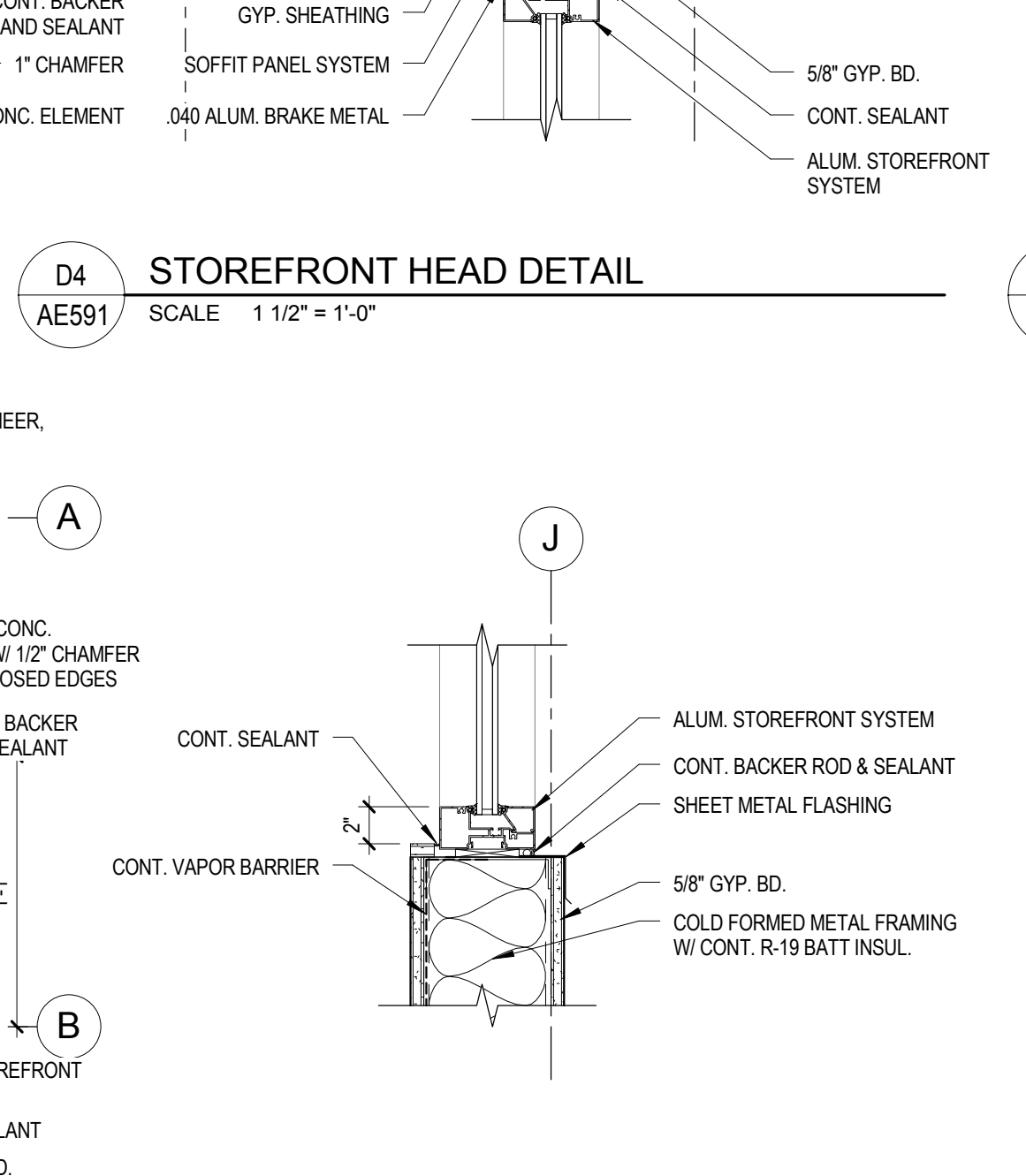
D2 CURTAIN WALL DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



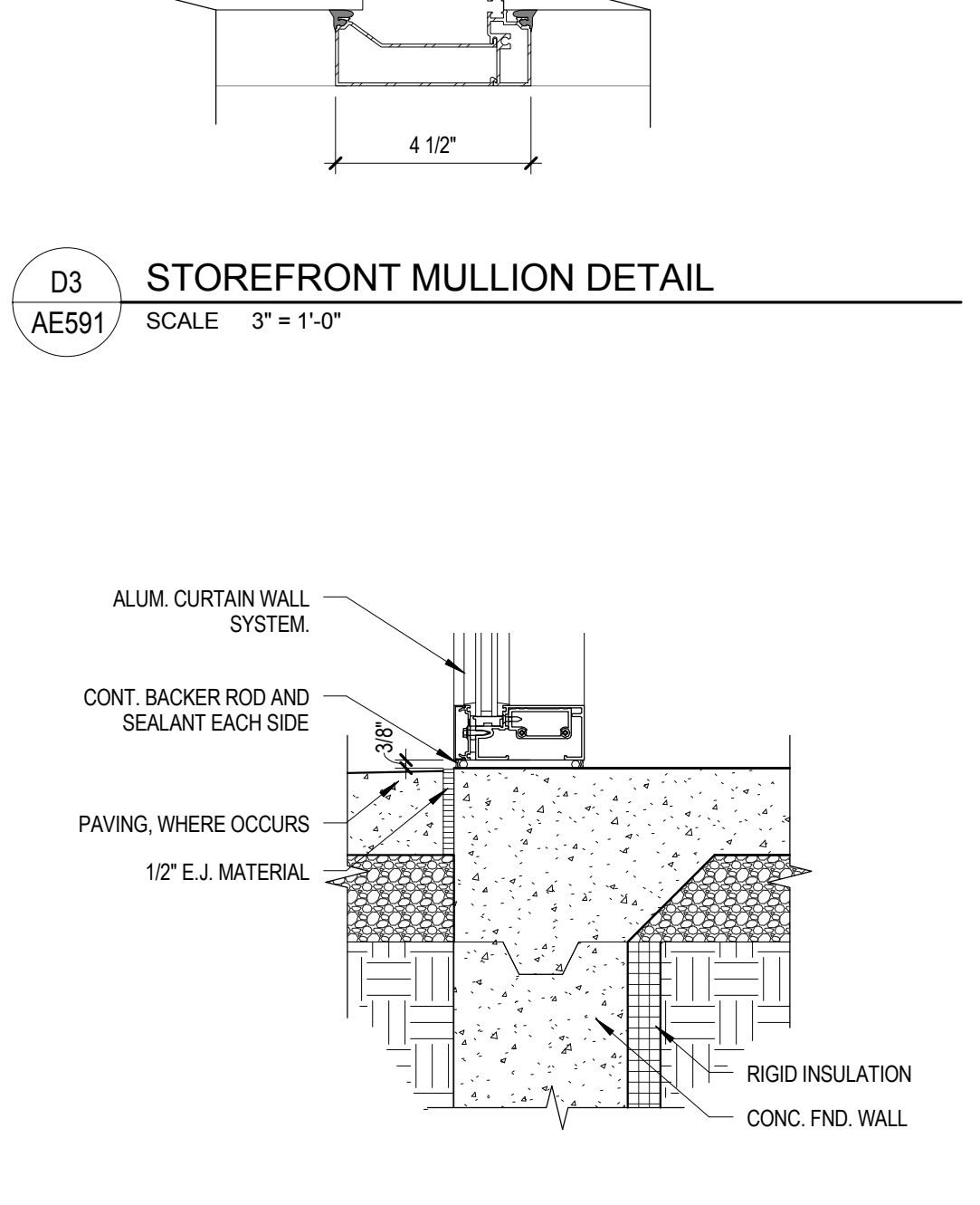
D1 CURTAIN WALL MULLION DETAIL  
AE591 SCALE 3" = 1'-0"



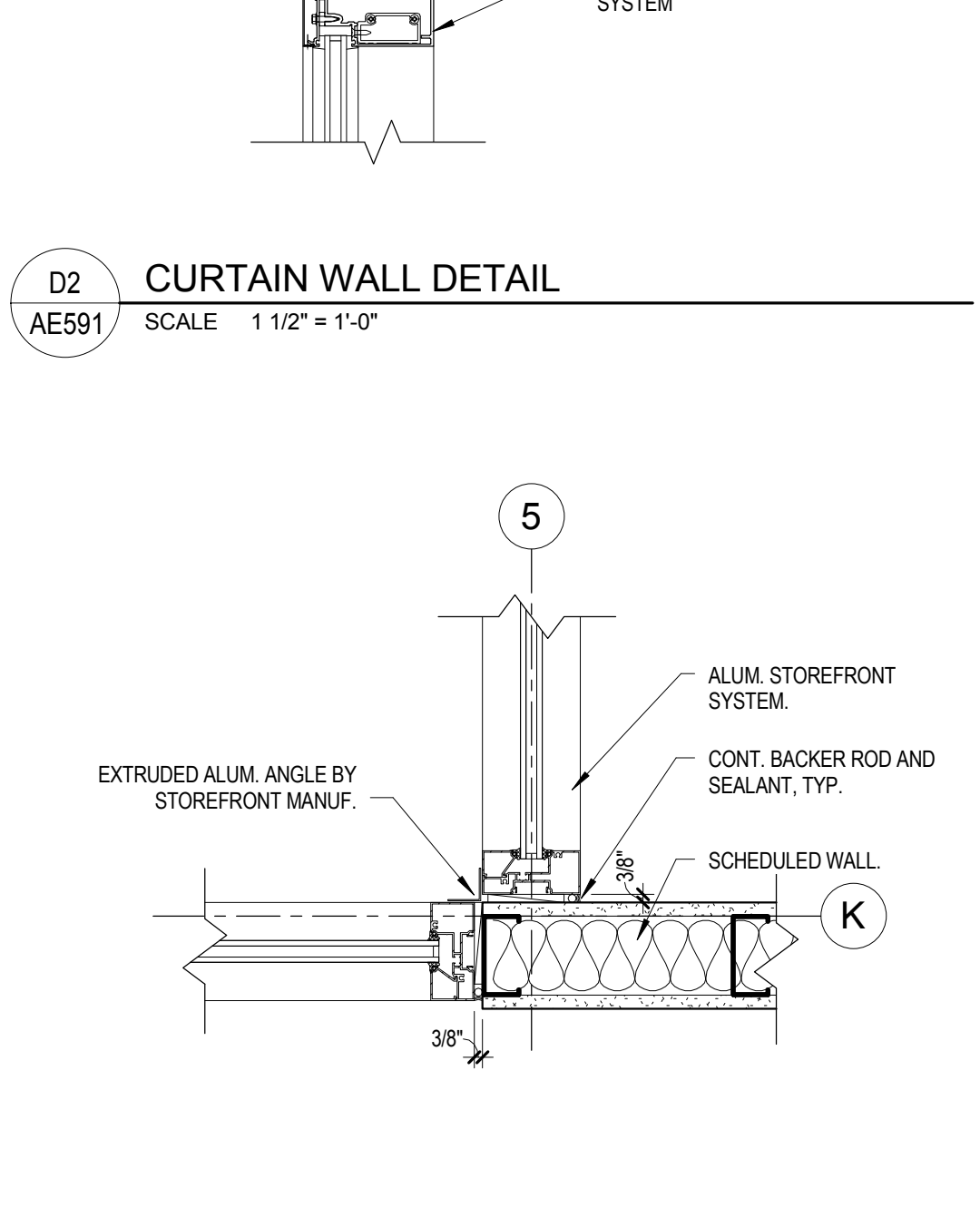
C5 STOREFRONT JAMB DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



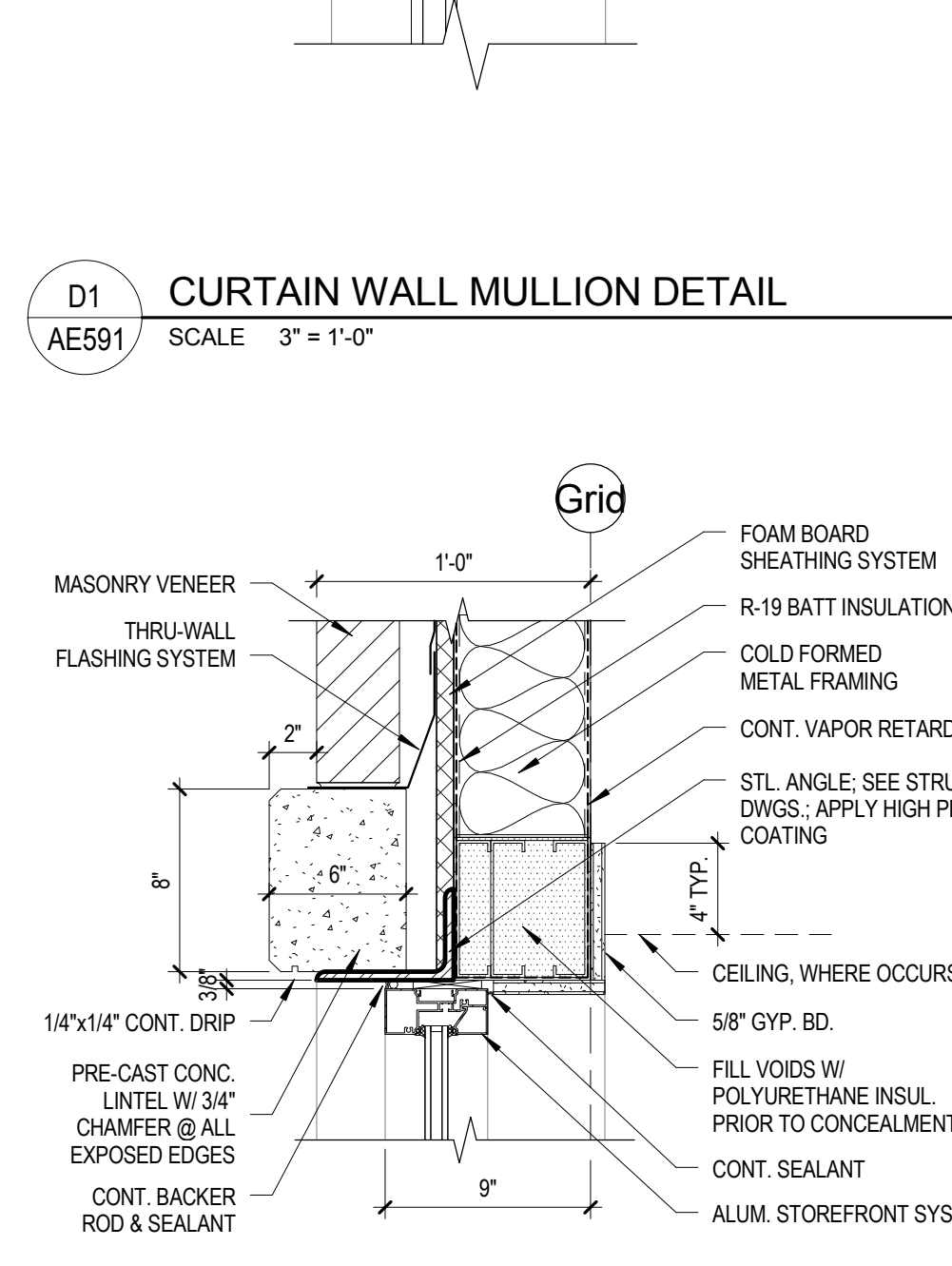
C4 STOREFRONT SILL DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



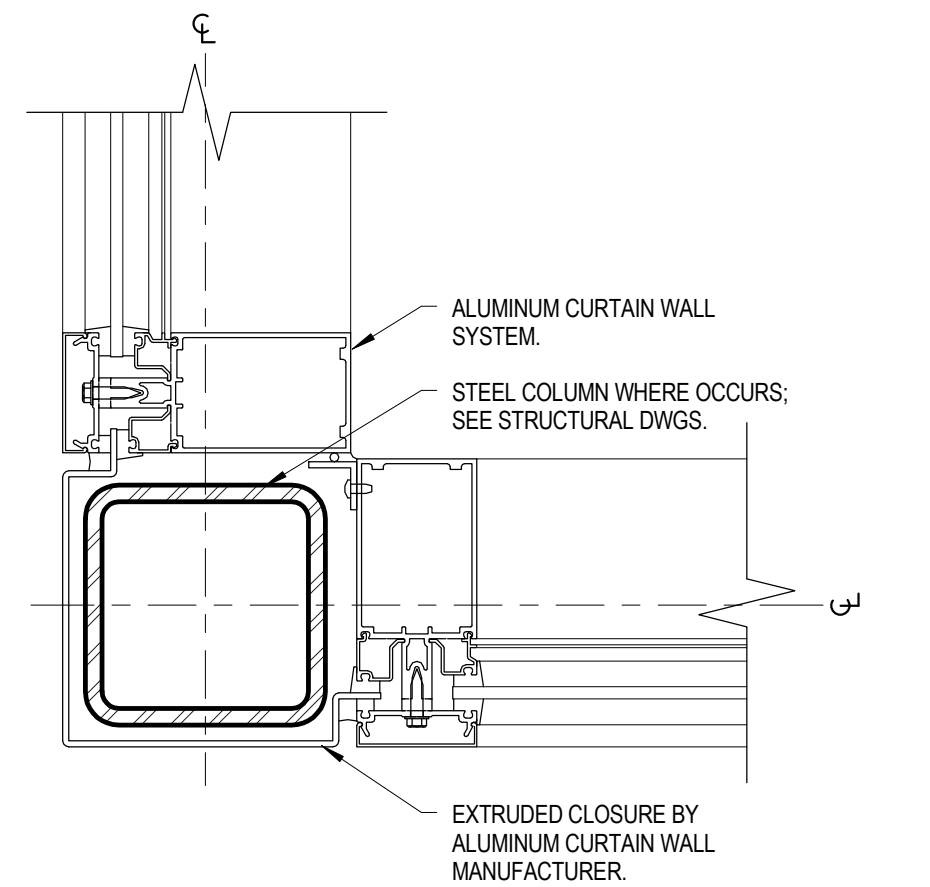
C3 CURTAIN WALL SILL DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



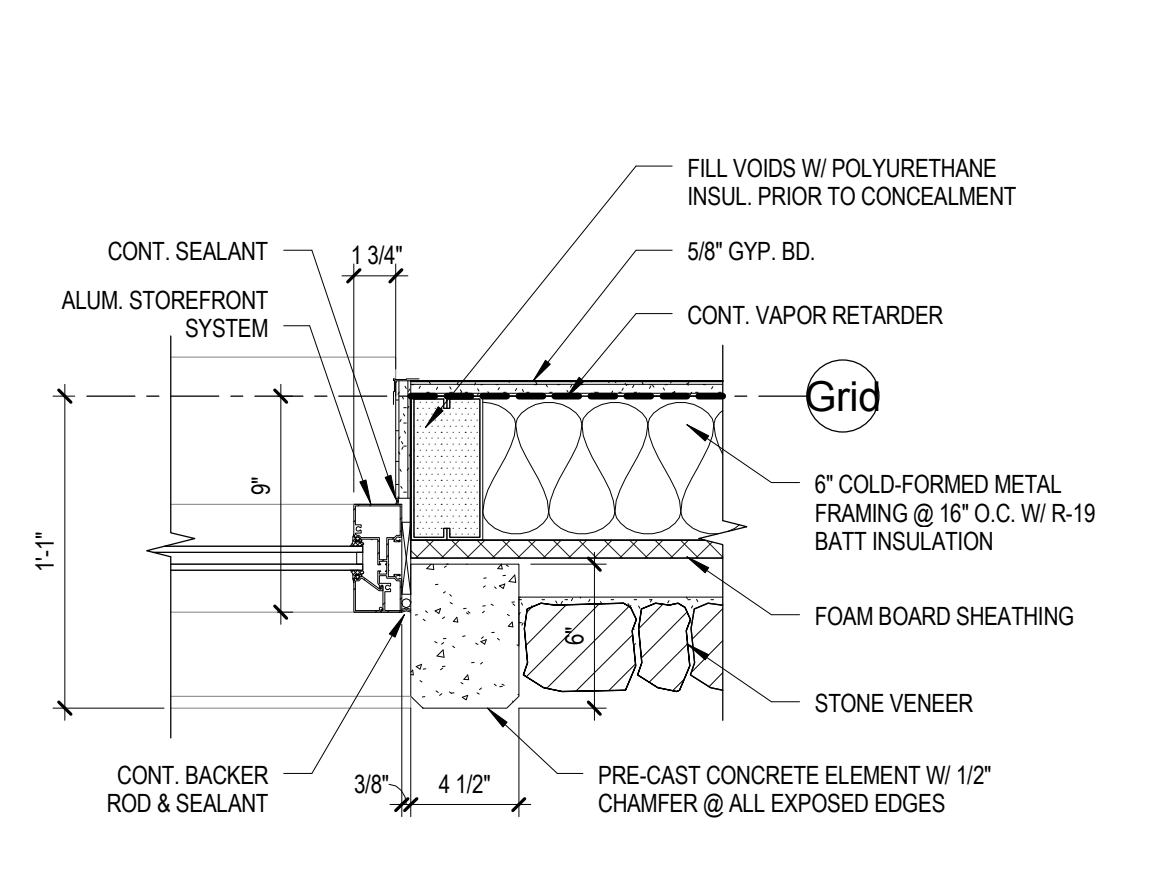
C2 STOREFRONT JAMB DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



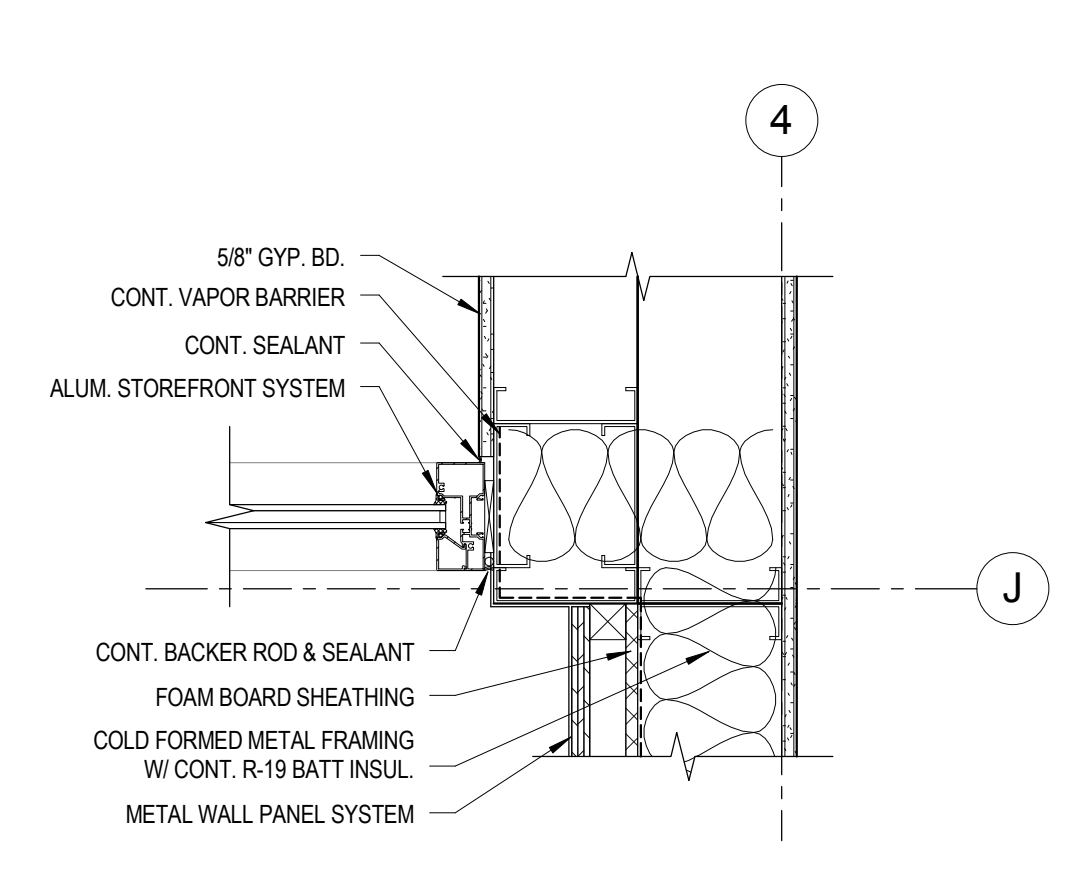
C1 STOREFRONT HEAD DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



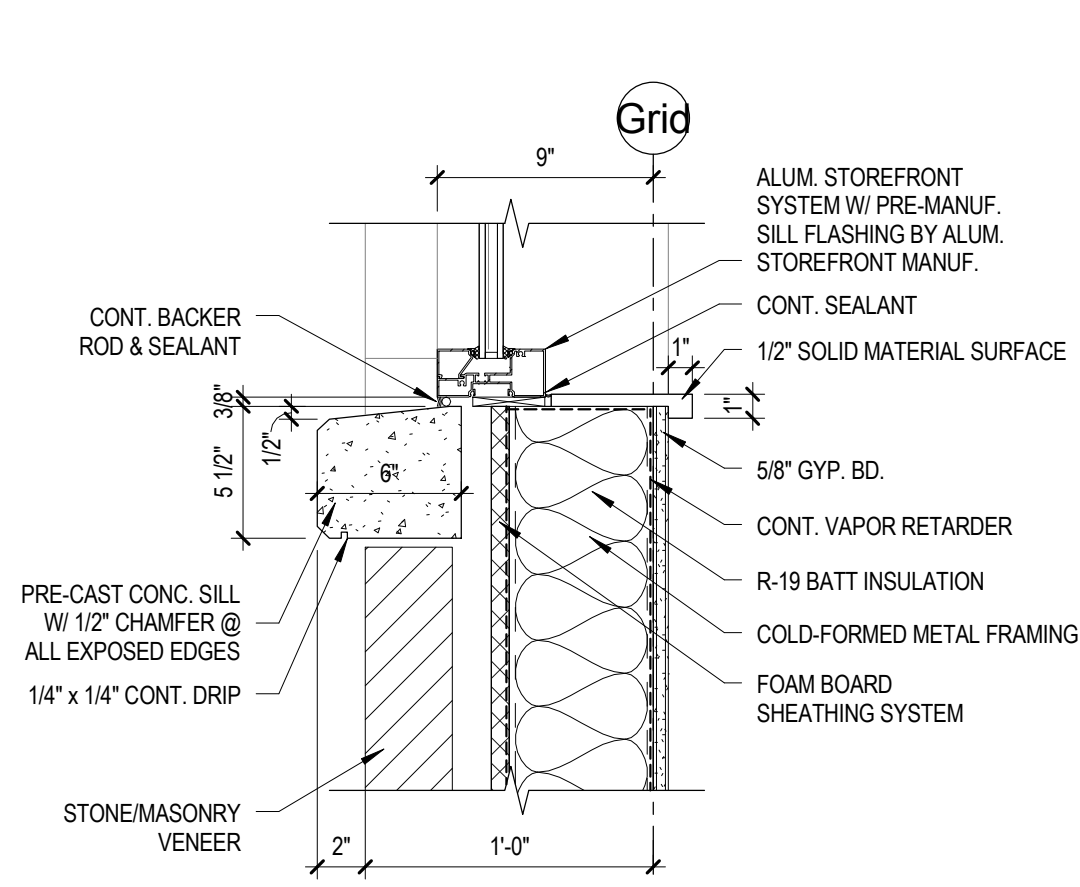
B5 STOREFRONT JAMB DETAIL  
AE591 SCALE 3" = 1'-0"



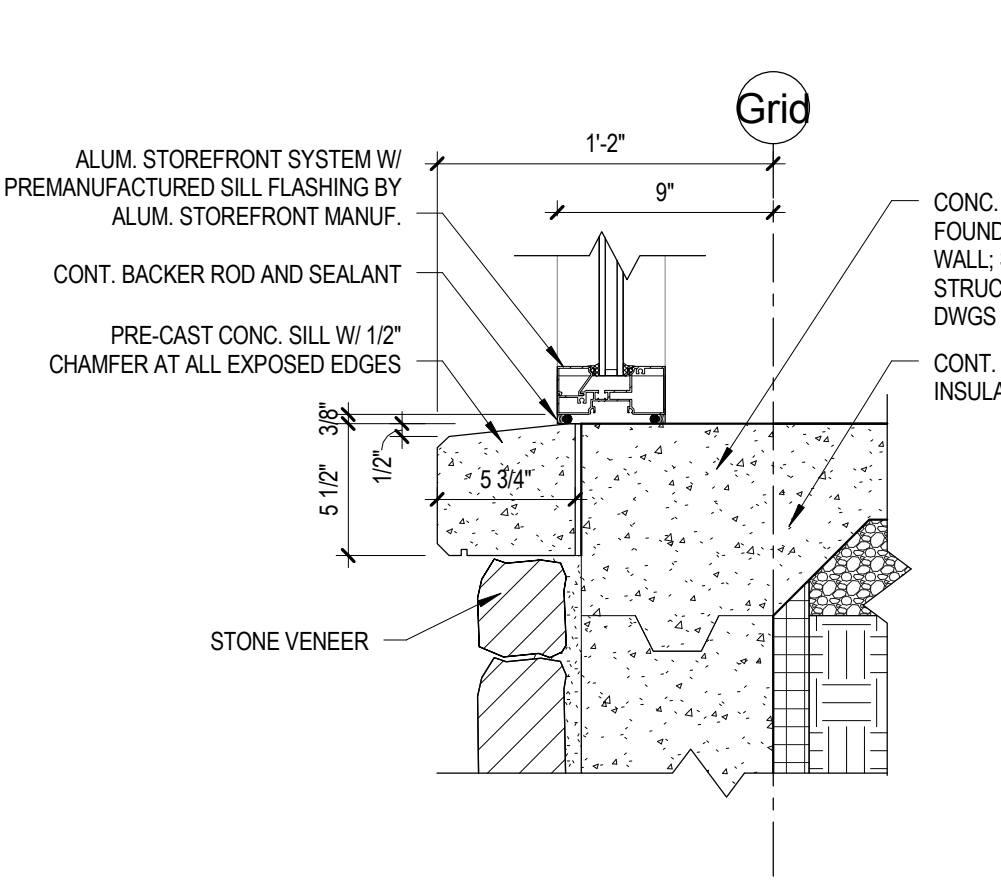
B4 STOREFRONT JAMB DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



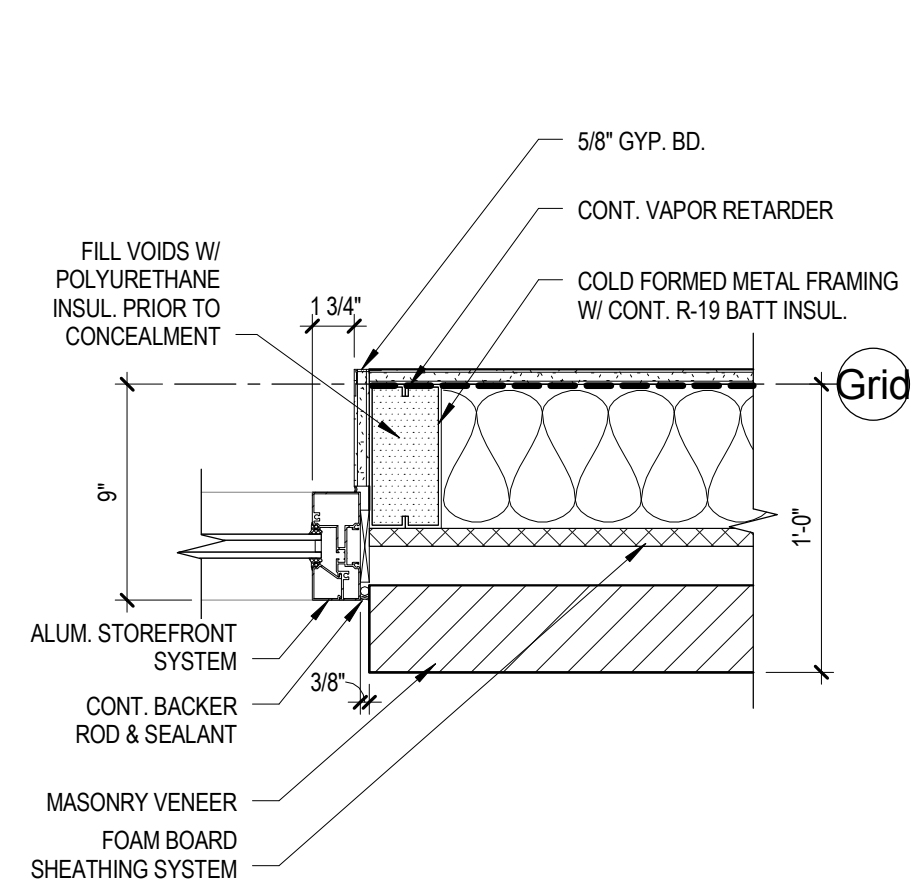
B3 STOREFRONT JAMB DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



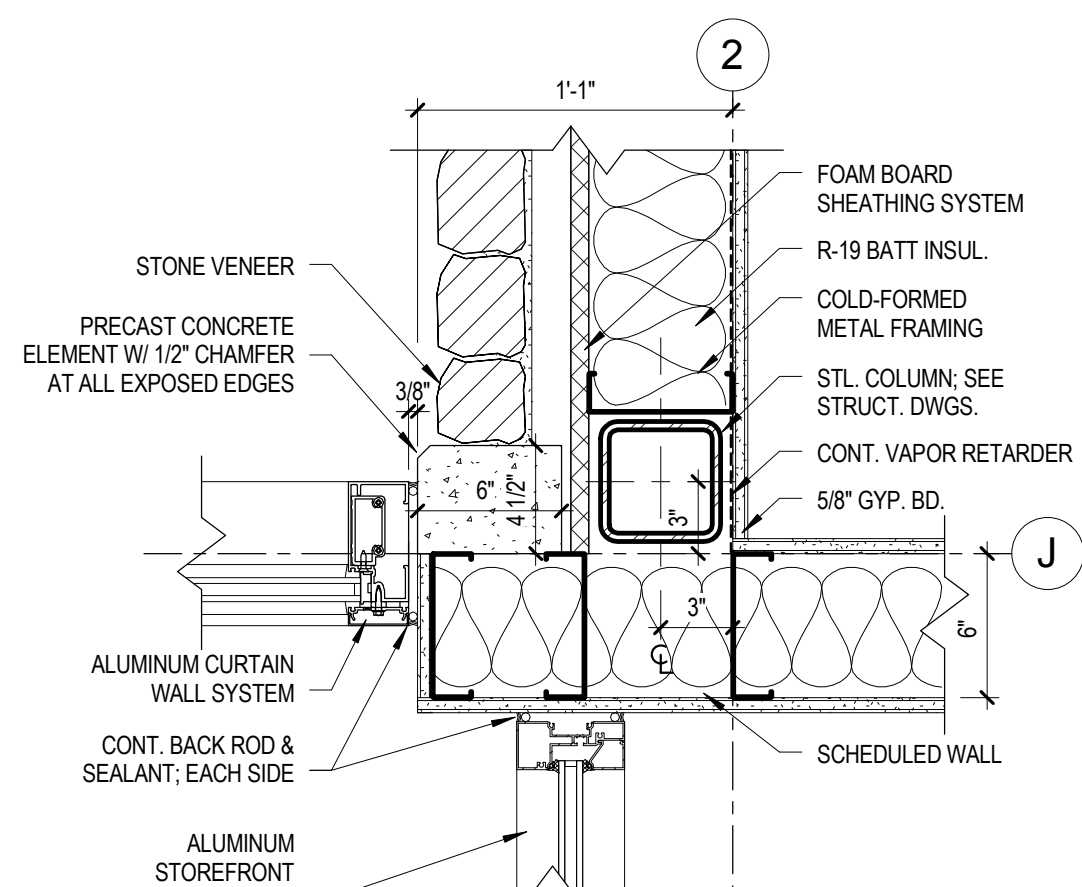
B2 STOREFRONT SILL DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



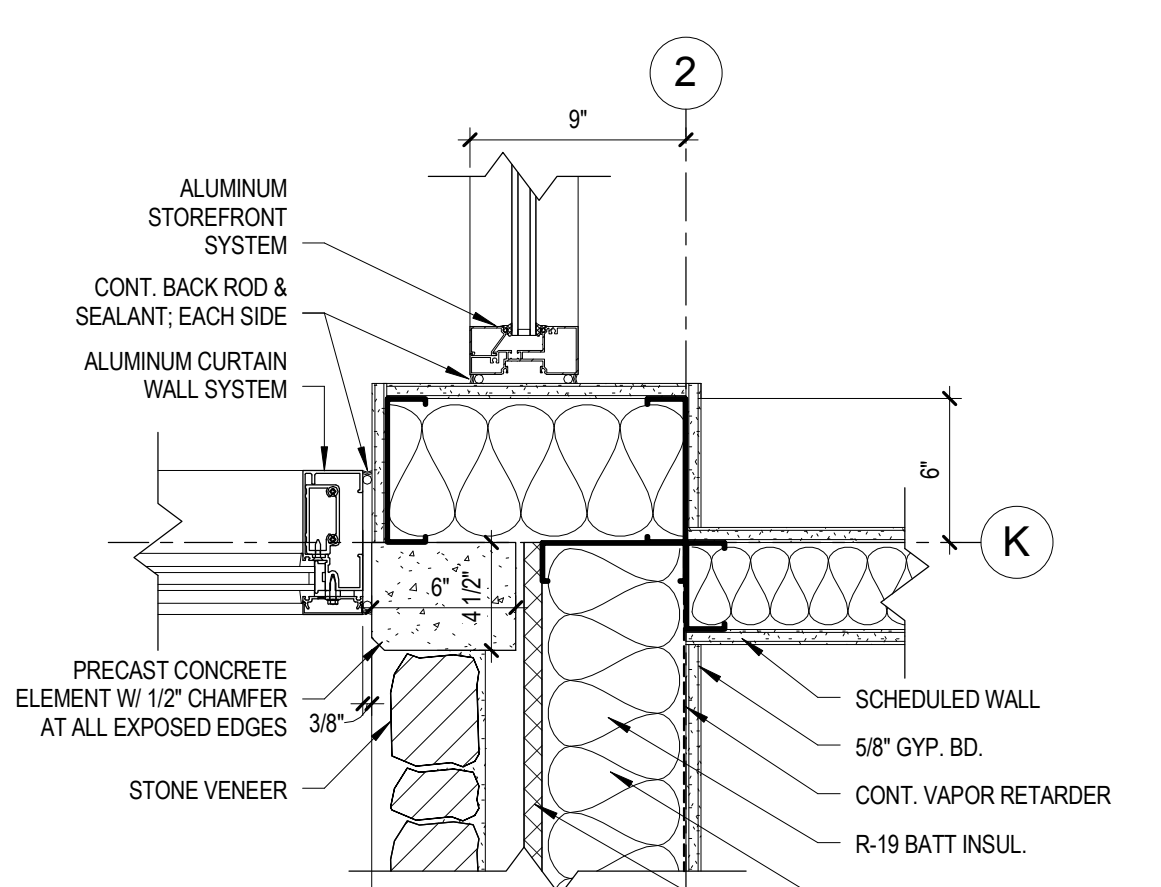
B1 STOREFRONT SILL DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



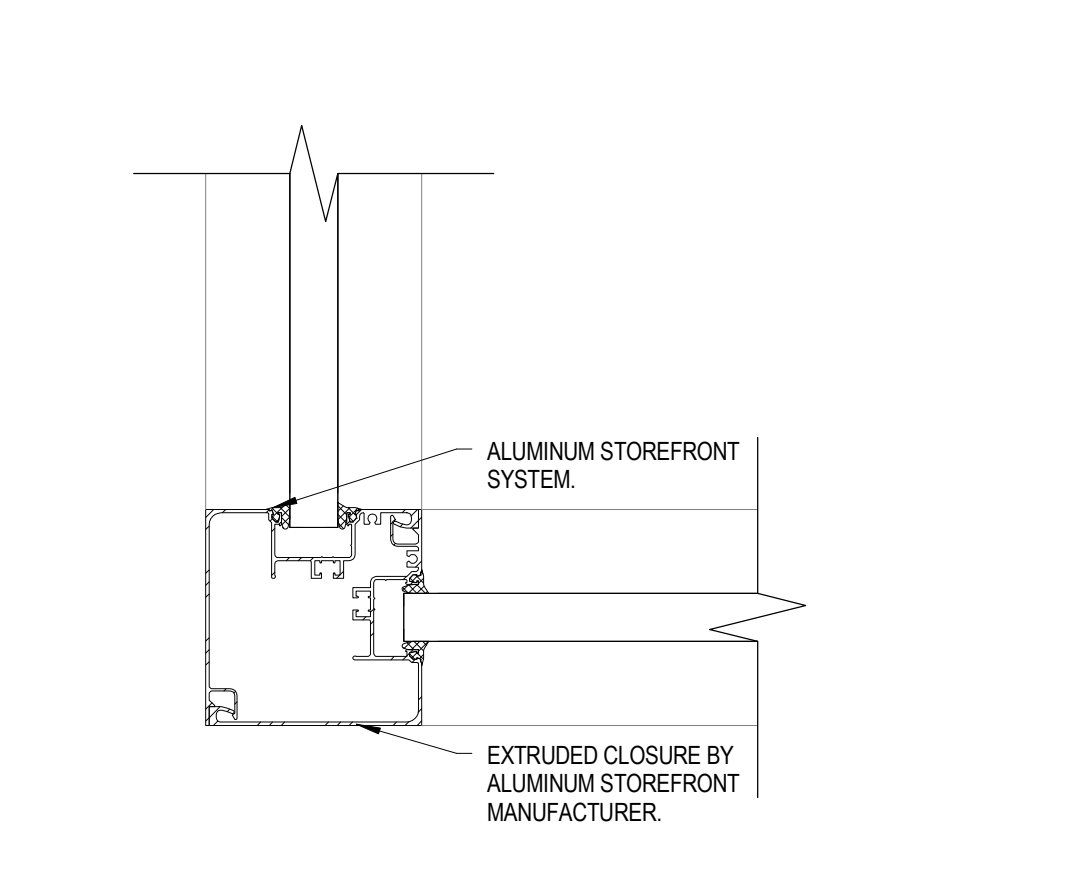
A6 STOREFRONT JAMB DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



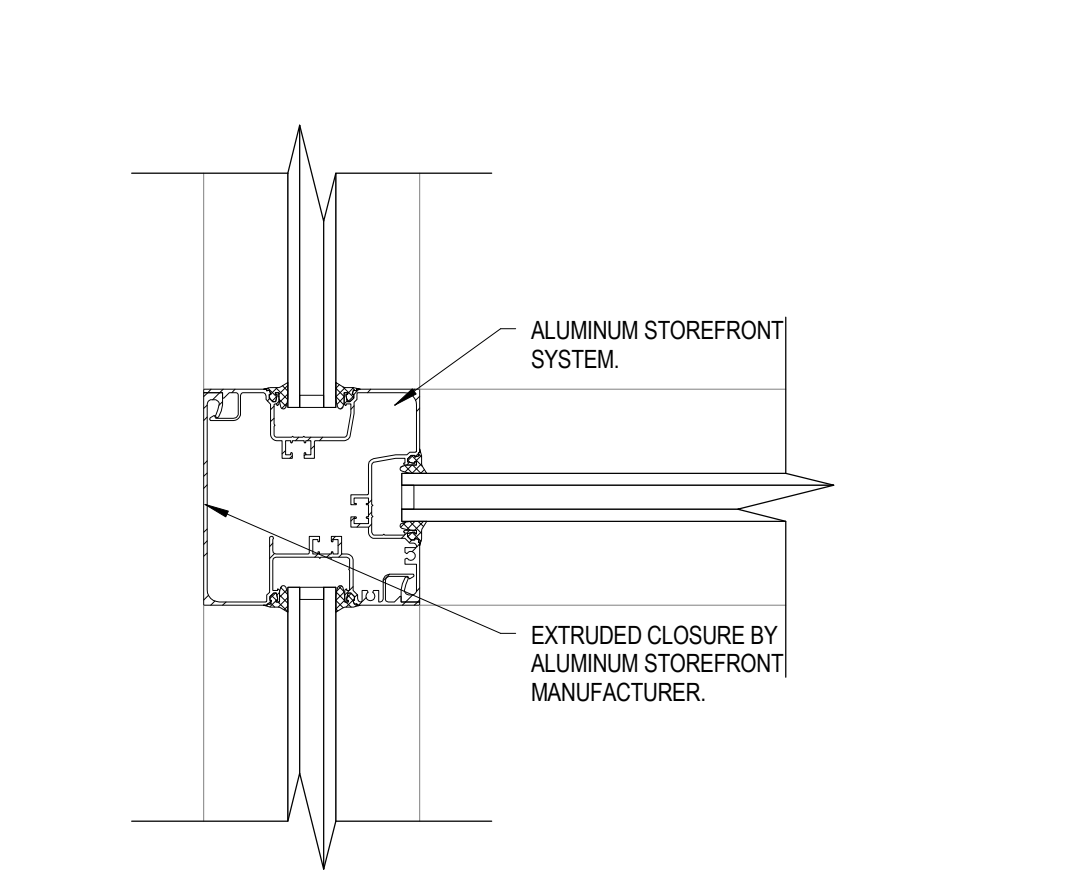
A5 JAMB DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



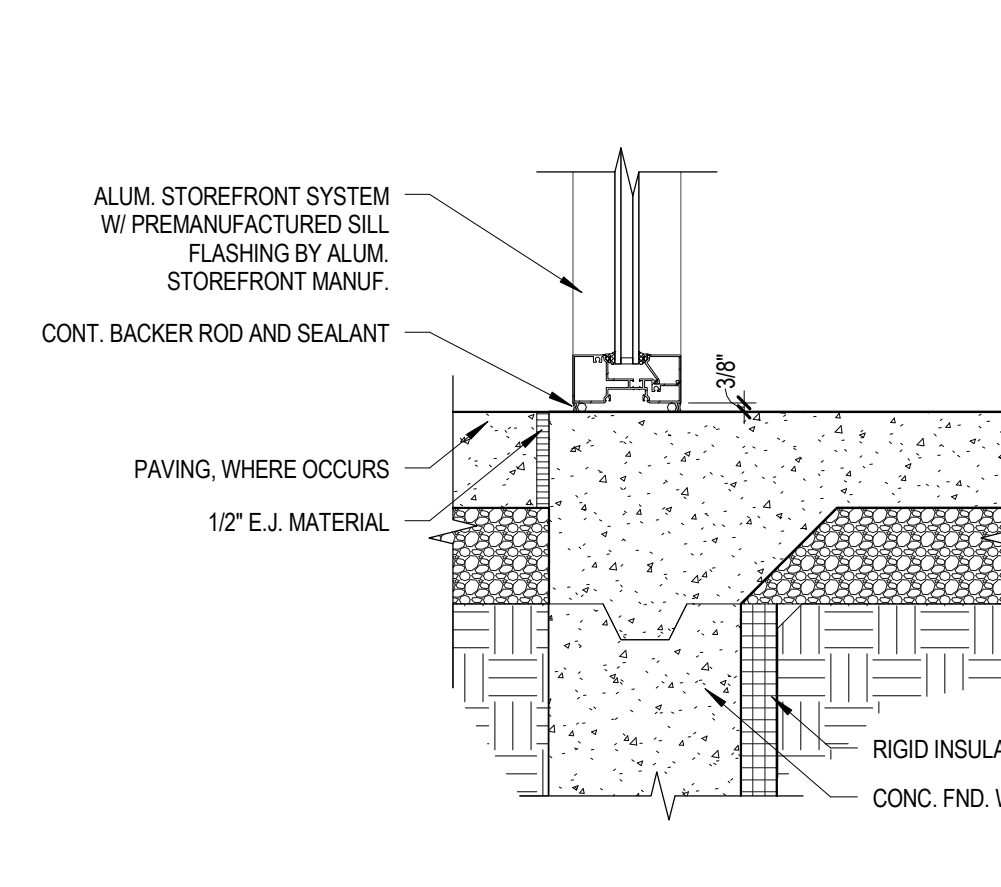
A4 JAMB DETAIL  
AE591 SCALE 1 1/2" = 1'-0"



A3 STOREFRONT JAMB DETAIL  
AE591 SCALE 3" = 1'-0"



A2 STOREFRONT JAMB DETAIL  
AE591 SCALE 3" = 1'-0"



A1 STOREFRONT SILL DETAIL  
AE591 SCALE 1 1/2" = 1'-0"

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KAYSVILLE, UTAH



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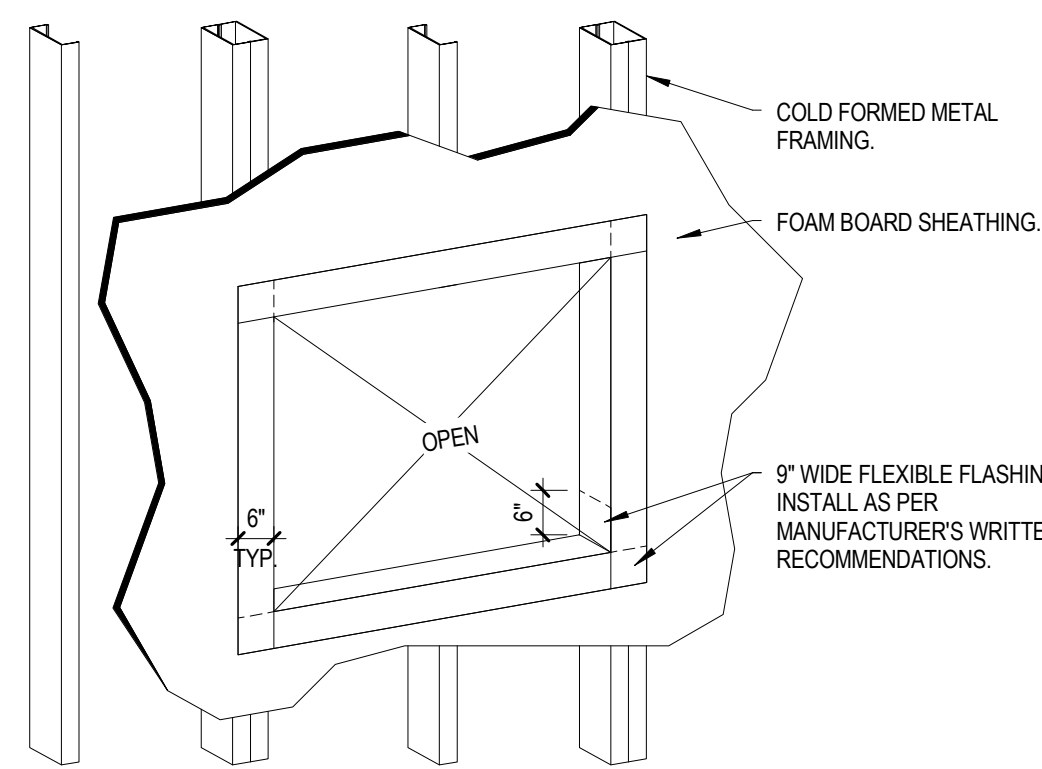
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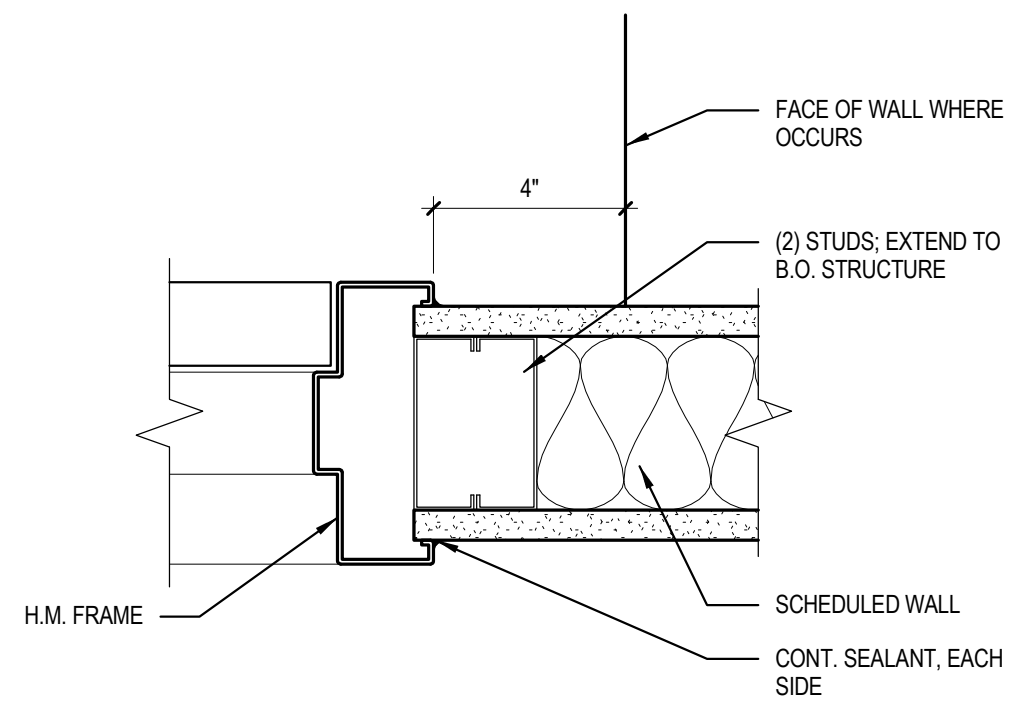
DOOR & WINDOW  
DETAILS

AE591

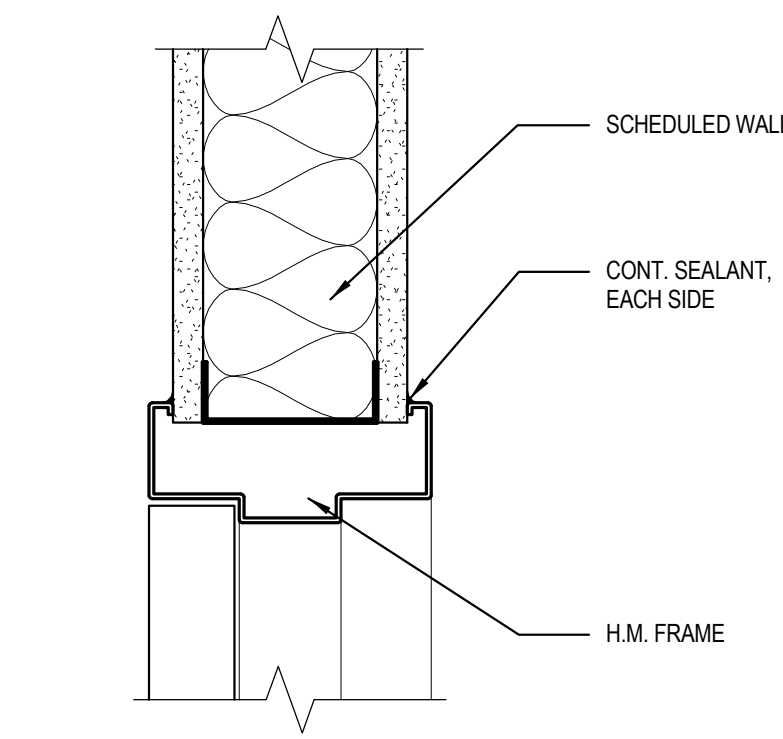




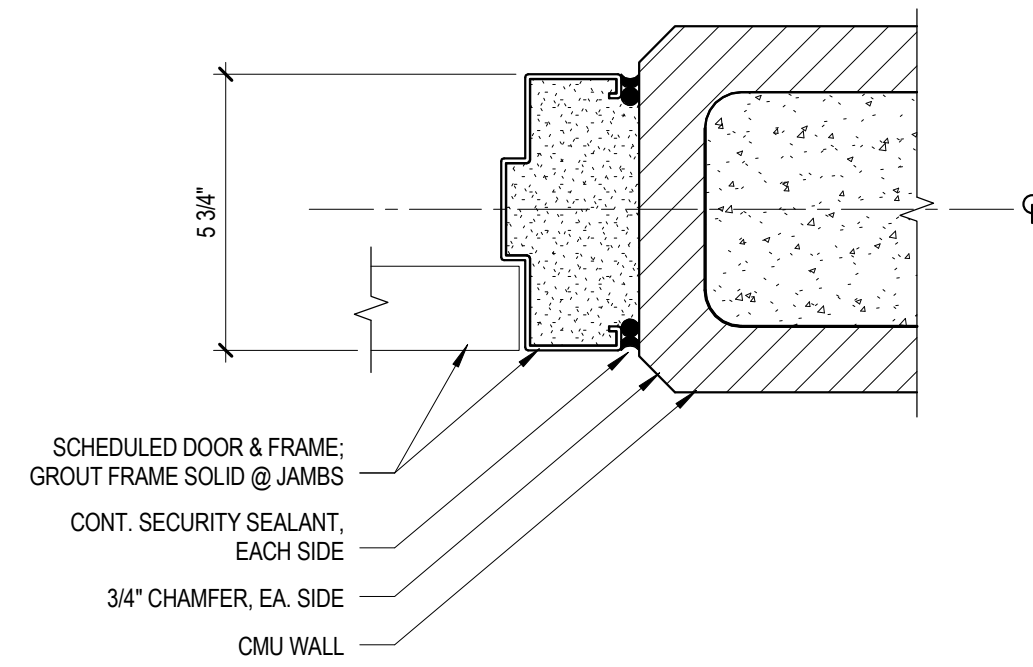
E5  
AE592  
OPENING DETAIL  
SCALE N.T.S.



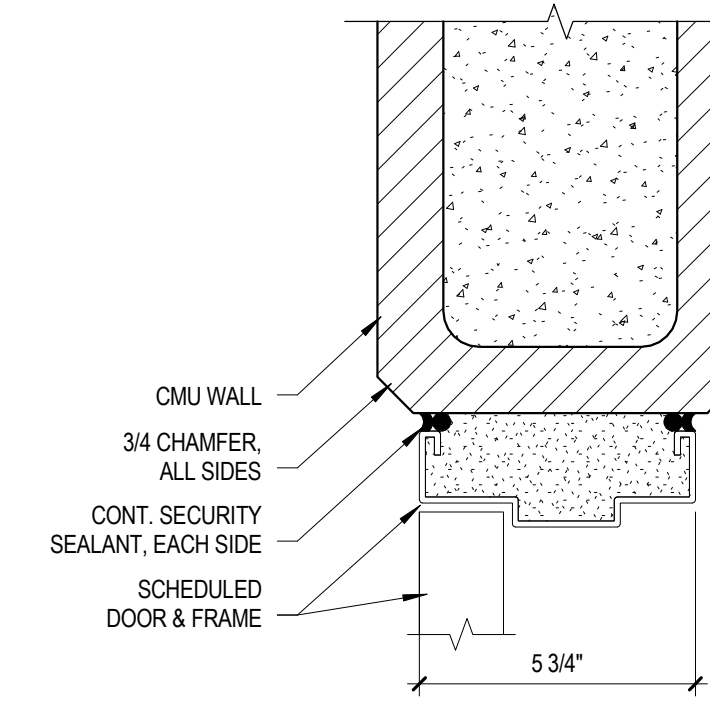
E4  
AE592  
INTERIOR H.M. DOOR JAMB  
SCALE 3\"/>



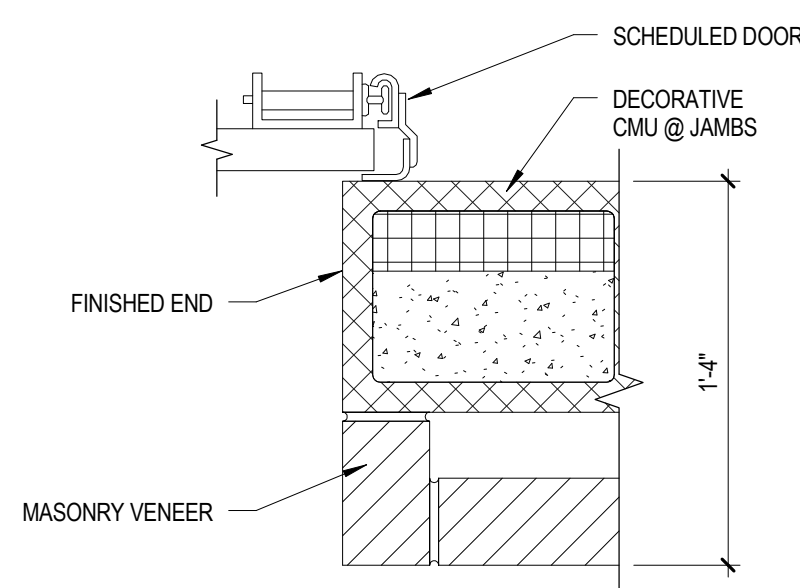
E3  
AE592  
INTERIOR H.M. DOOR HEAD  
SCALE 3\"/>



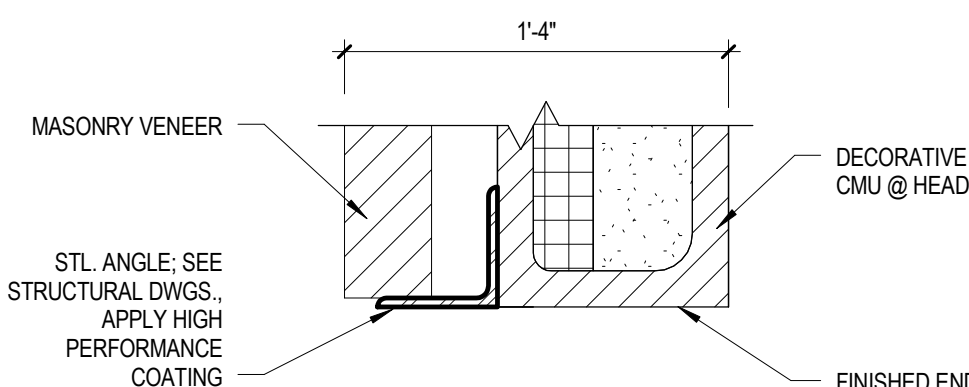
E2  
AE592  
H.M. FRAME JAMB (SILL SIM.)  
SCALE 3\"/>



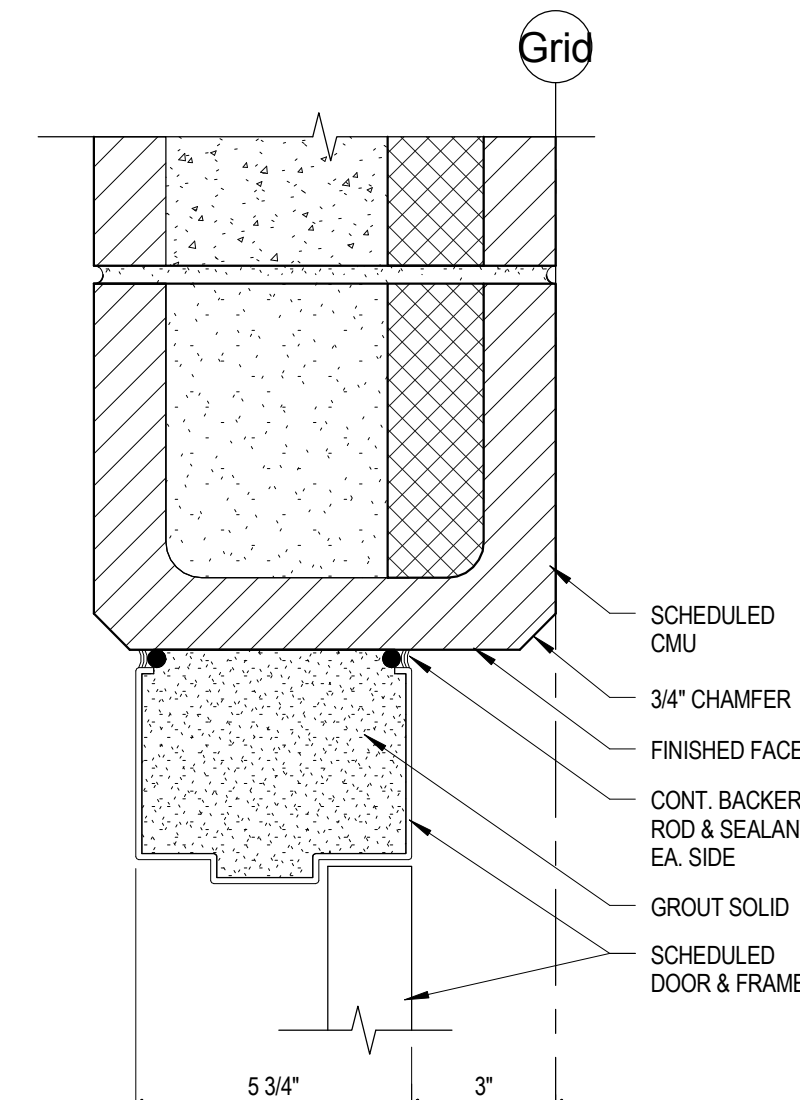
E1  
AE592  
H.M. FRAME HEAD  
SCALE 3\"/>



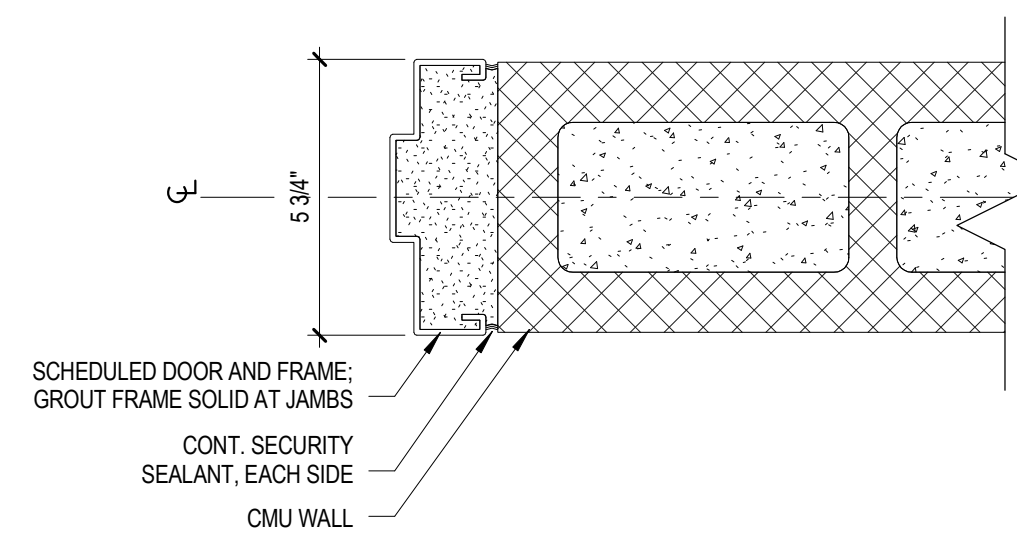
D4  
AE592  
O.H. DOOR JAMB  
SCALE 1 1/2\"/>



D3  
AE592  
O.H. DOOR HEAD  
SCALE 1 1/2\"/>



D2  
AE592  
HEAD DETAIL (JAMB SIM.)  
SCALE 3\"/>



D1  
AE592  
H.M. FRAME JAMB (HEAD SIM.)  
SCALE 3\"/>

## KAYSVILLE CITY POLICE STATION

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DATE/REVISION  
12-03-2013

PROJECT #  
10002

DOOR & WINDOW  
DETAILS

AE592



| DOOR AND FRAME SCHEDULE |            |             |      |       |        |       |      |       |        |                           |                      |                    |  |
|-------------------------|------------|-------------|------|-------|--------|-------|------|-------|--------|---------------------------|----------------------|--------------------|--|
| DOOR                    | DOOR SIZE  | DOOR HEIGHT | DOOR |       |        | FRAME |      |       |        |                           | ASSEMBLY FIRE RATING | NOTES              |  |
|                         | WIDTH      |             | TYPE | MATL  | FINISH | GLAZ  | TYPE | MATL  | FINISH | DETAILS (AE592) HEAD JAMB |                      |                    |  |
| 101A                    | (2) 3'-0"  | 8'-0"       | D2   | AL    | --     | G3    | --   | AL    | --     |                           | --                   |                    |  |
| 102A                    | (2) 3'-0"  | 8'-0"       | D2   | AL    | --     | G1    | --   | AL    | --     |                           | --                   |                    |  |
| 102B                    | (2) 3'-0"  | 8'-0"       | D2   | AL    | --     | G3    | --   | AL    | --     |                           | --                   |                    |  |
| 103A                    | (2) 3'-0"  | 8'-0"       | D2   | AL    | --     | G3    | --   | AL    | --     |                           | --                   |                    |  |
| 104A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F7   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 105A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F7   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 106A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F7   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 107A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 108A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 111A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 112A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F2   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 113A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F2   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 114A                    | 3'-0"      | 7'-0"       | D2   | AL    | --     | G1    | --   | AL    | --     |                           | --                   |                    |  |
| 116A                    | 3'-0"      | 7'-0"       | D3   | WD    | --     | G1    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 117A                    | 3'-0"      | 7'-0"       | D3   | WD    | --     | G1    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 118A                    | 3'-0"      | 7'-0"       | D3   | WD    | --     | G1    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 119A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | AL   | --    | --     |                           | --                   |                    |  |
| 119B                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | AL   | --    | --     |                           | --                   |                    |  |
| 121A                    | 3'-0"      | 7'-0"       | D2   | AL    | --     | G1    | --   | AL    | --     |                           | --                   |                    |  |
| 122A                    | 3'-0"      | 7'-0"       | D2   | AL    | --     | G1    | --   | AL    | --     |                           | --                   |                    |  |
| 123A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 124A                    | 3'-0"      | 7'-0"       | D3   | WD    | --     | G1    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 124B                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 126A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 129A                    | 3'-0"      | 7'-0"       | D3   | WD    | --     | G8    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 130A                    | 3'-0"      | 7'-0"       | D3   | WD    | --     | G8    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 131A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 133A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 134A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F7   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 135A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F7   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 136A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F7   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 137A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F7   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 138A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F7   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 140A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F7   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 141A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F7   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 142A                    | 3'-0"      | 7'-0"       | D3   | HM    | PAINT  | G8    | F3   | HM    | PAINT  | D1 D1                     | --                   | MED SECURITY       |  |
| 143A                    | 3'-0"      | 7'-0"       | D3   | HM    | PAINT  | G8    | F3   | HM    | PAINT  | D1 D1                     | --                   | MED SECURITY       |  |
| 144A                    | 3'-0"      | 7'-0"       | D1   | HM    | PAINT  | G8    | F3   | HM    | PAINT  | D1 D1                     | --                   | MED SECURITY       |  |
| 145A                    | 3'-0"      | 7'-0"       | D3   | HM    | PAINT  | G8    | F3   | HM    | PAINT  | E1 E2                     | --                   | MED SECURITY       |  |
| 145B                    | 3'-0"      | 7'-0"       | D3   | HM    | PAINT  | G8    | F3   | HM    | PAINT  | E1 E2                     | --                   | MED SECURITY       |  |
| 146A                    | (2) 3'-0"  | 7'-0"       | D3   | HM    | PAINT  | G8    | F3   | HM    | PAINT  | D1 D1                     | --                   | MED SECURITY       |  |
| 147A                    | 3'-0"      | 7'-0"       | D1   | HM    | PAINT  | --    | F4   | HM    | PAINT  | E1 E2                     | --                   |                    |  |
| 148A                    | 20'-0"     | 9'-0"       | --   | PAINT | --     | --    | --   | --    | --     | D3 D4                     | --                   | OVERHEAD COILING   |  |
| 148B                    | 20'-0"     | 9'-0"       | --   | PAINT | --     | --    | --   | --    | --     | D3 D4                     | --                   | OVERHEAD COILING   |  |
| 148C                    | 3'-0"      | 7'-0"       | D1   | HM    | PAINT  | --    | F3   | HM    | PAINT  |                           | --                   | MED SECURITY       |  |
| 150A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F3   | HM    | PAINT  | E1 E2                     | --                   |                    |  |
| 151A                    | 3'-0"      | 7'-0"       | D1   | HM    | PAINT  | --    | F3   | HM    | PAINT  | E3 E4                     | --                   | MED SECURITY       |  |
| 152A                    | 3'-0"      | 7'-0"       | D2   | AL    | --     | G3    | --   | AL    | --     |                           | --                   |                    |  |
| 153A                    | 3'-0"      | 7'-0"       | D2   | AL    | --     | G1    | --   | AL    | --     |                           | --                   |                    |  |
| 154A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | AL   | --    | --     |                           | --                   |                    |  |
| 154B                    | 4'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 154C                    | 3'-0"      | 7'-0"       | D2   | AL    | --     | G3    | --   | AL    | --     |                           | --                   |                    |  |
| 155A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F2   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 156A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F2   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 157A                    | 3'-0"      | 7'-0"       | D3   | WD    | --     | G1    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 158A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 158A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 160A                    | (2) 3'-0"  | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 161A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F1   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 162A                    | 3'-0"      | 7'-0"       | D3   | WD    | --     | G1    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 162B                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F2   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 163A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | HM   | PAINT | E3 E4  | --                        |                      |                    |  |
| 164A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 166A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 166B                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 166C                    | 3'-0"      | 7'-0"       | D2   | AL    | --     | G3    | --   | AL    | --     |                           | --                   |                    |  |
| 167A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 168A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 168A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 172A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 173A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 174A                    | 2'-6"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 175A                    | 2'-6"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 176A                    | 2'-6"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 177A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | AL   | --    | --     |                           | --                   |                    |  |
| 178A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | AL   | --    | --     |                           | --                   |                    |  |
| 179A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 180A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 181A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 182A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 183A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 184A                    | 4'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 185A                    | (2) 3'-0"  | 7'-0"       | D1   | WD    | --     | --    | F1   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 185B                    | 3'-0"      | 8'-0"       | D2   | AL    | --     | G3    | --   | AL    | --     |                           | --                   |                    |  |
| 186A                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 186B                    | 3'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 186C                    | (2) 1'-10" | 4'-2"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 187A                    | 4'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 187B                    | 4'-0"      | 7'-0"       | D1   | WD    | --     | --    | F5   | HM    | PAINT  | E3 E4                     | --                   |                    |  |
| 201A                    | 10'-0"     | 12'-0"      | --   | PAINT | --     | --    | --   | --    | --     |                           | --                   | SECTIONAL OVERHEAD |  |
| 201B                    | 3'-0"      | 7'-0"       | D1   | HM    | PAINT  | --    | F3   | HM    | PAINT  | D2 D2                     | --                   | SECTIONAL OVERHEAD |  |
| 202A                    | 10'-0"     | 10'-0"      | --   | PAINT | --     | --    | --   | --    | --     |                           | --                   | SECTIONAL OVERHEAD |  |
| 202B                    | 10'-0"     | 10'-0"      | --   | PAINT | --     | --    | --   | --    | --     |                           | --                   | SECTIONAL OVERHEAD |  |
| 203A                    | 3'-0"      | 7'-0"       | D1   | HM    | PAINT  | --    | F3   | HM    | PAINT  | D2 D2                     | --                   |                    |  |
| 203B                    | 3'-0"      | 7'-0"       | D1   | HM    | PAINT  | --    | F3   | HM    | PAINT  | E1 E2                     | --                   |                    |  |
| 205A                    | 8'-0"      | 8'-0"       | --   | PAINT | --     | --    | --   | --    | --     |                           | --                   | SECTIONAL OVERHEAD |  |
| 205B                    | 3'-0"      | 7'-0"       | D1   | HM    | PAINT  | --    | F3   | HM    | PAINT  | D2 D2                     | --                   |                    |  |
| 206A                    | 3'-0"      | 7'-0"       | D1   | HM    | PAINT  | --    | F3   | HM    | PAINT  | D2 D2                     | --                   |                    |  |

| ROOM FINISH SCHEDULE |                                           |       |      |      |    |    |    |       |
|----------------------|-------------------------------------------|-------|------|------|----|----|----|-------|
| ROOM NO.             | ROOM NAME                                 | FLOOR | BASE | WALL |    |    |    | NOTES |
|                      |                                           |       |      | N    | E  | S  | W  |       |
| 101                  | VESTIBULE                                 | F2    | B4   | W1   | W1 | W1 | W1 |       |
| 102                  | PUBLIC LOBBY                              | F7    | B2   | W1   | W1 | W1 | W1 |       |
| 103                  | SECURITY VESTIBULE                        | F2    | B4   | W1   | W1 | W1 | W1 |       |
| 104                  | RECORDS CLERKS                            | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 105                  | OFFICE                                    | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 106                  | OFFICE                                    | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 107                  | REAL TIME                                 | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 108                  | EQUIPMENT                                 | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 109                  | RECORDS STORAGE                           | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 110                  | KITCHENETTE                               | F8    | B5   | W1   | W1 | W1 | W1 |       |
| 111                  | STORAGE                                   | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 112                  | ASSISTANT CHIEF                           | F1    | B2   | W1   | W1 | W1 | W1 |       |
| 113                  | POLICE CHIEF                              | F1    | B2   | W1   | W1 | W1 | W1 |       |
| 114                  | WAITING                                   | F1    | B2   | W1   | W1 | W1 | W1 |       |
| 115                  | ADMIN ASSISTANT                           | F1    | B2   | W1   | W1 | W1 | W1 |       |
| 116                  | SERVER                                    | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 117                  | DATA/ TELEPHONE                           | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 118                  | IT WORKROOM                               | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 119                  | ADMINISTRATIVE CONFERENCE ROOM            | F1    | B2   | W1   | W1 | W1 | W1 |       |
| 120                  | COPY SUPPLY                               | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 121                  | HALLWAY                                   | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 122                  | HALLWAY                                   | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 123                  | JANITOR / STORAGE                         | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 124                  | TESTING                                   | F4    | B6   | W1   | W1 | W1 | W1 |       |
| 125                  | HALLWAY                                   | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 126                  | MECHANICAL                                | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 127                  | EVIDENCE STORAGE                          | F4    | B6   | W1   | W1 | W1 | W1 |       |
| 128                  | TECHNICIAN                                | F4    | B6   | W1   | W1 | W1 | W1 |       |
| 129                  | DRUG STORAGE                              | F4    | B6   | W1   | W1 | W1 | W1 |       |
| 130                  | WEAPONS STORAGE                           | F4    | B6   | W1   | W1 | W1 | W1 |       |
| 131                  | EVIDENCE PROCESSING                       | F4    | B6   | W1   | W1 | W1 | W1 |       |
| 132                  | EVIDENCE DROP-OFF                         | F10   | B1   | W1   | W1 | W1 | W1 |       |
| 133                  | ARMORY STORAGE                            | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 134                  | OFFICE                                    | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 135                  | OFFICE                                    | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 136                  | OFFICE                                    | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 137                  | PATROL LT.                                | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 138                  | PATROL REPORT WRITING                     | F9    | B1   | W1   | W1 | W1 | W1 |       |
| 139                  | OFFICE                                    | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 140                  | OFFICE                                    | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 141                  | OFFICE                                    | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 142                  | SECURE INTERVIEW                          | F3    | B4   | W1   | W1 | W1 | W1 |       |
| 143                  | SECURE INTERVIEW                          | F3    | B4   | W1   | W1 | W1 | W1 |       |
| 144                  | JANITOR                                   | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 145                  | DETAINEE PROCESSING                       | F3    | B4   | W1   | W1 | W1 | W1 |       |
| 146                  | TOILET                                    | F3    | B4   | W1   | W1 | W1 | W1 |       |
| 147                  | STORAGE                                   | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 148                  | SALLYPORT                                 | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 149                  | DECON                                     | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 150                  | PATROL STORAGE                            | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 151                  | ELECTRICAL                                | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 152                  | VESTIBULE                                 | F2    | B4   | W1   | W1 | W1 | W1 |       |
| 153                  | HALLWAY                                   | F10   | B1   | W1   | W1 | W1 | W1 |       |
| 154                  | BREAK ROOM                                | F8    | B5   | W1   | W1 | W1 | W1 |       |
| 155                  | STRIKE FORCE OFFICER                      | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 156                  | INVESTIGATIONS / S.R.O.                   | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 157                  | INVESTIGATIONS / S.R.O.                   | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 158                  | INTERVIEW                                 | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 159                  | TACTICAL STORAGE                          | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 160                  | INTERVIEW                                 | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 161                  | TABLE/MAT STORAGE                         | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 162                  | PATROL BRIEFING                           | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 163                  | INVEST. CONF./TACTICAL WORK ROOM          | F1    | B1   | W1   | W1 | W1 | W1 |       |
| 164                  | WOMEN'S RESTROOM                          | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 165                  | WOMEN'S LOCKERS                           | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 166                  | PUBLIC SAFETY TRAINING ROOM               | F5    | B1   | W1   | W1 | W1 | W1 |       |
| 167                  | RESTROOM                                  | F4    | B6   | W3   | W3 | W3 | W3 |       |
| 168                  | STORAGE                                   | F5    | B1   | W1   | W1 | W1 | W1 |       |
| 169                  | MEN'S RESTROOM                            | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 170                  | MEN'S LOCKERS                             | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 171                  | MEN'S SHOWER                              | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 172                  | STAFF MEN'S                               | F6    | B3   | W3   | W3 | W3 | W3 |       |
| 173                  | STAFF WOMEN'S                             | F6    | B3   | W3   | W3 | W3 | W3 |       |
| 174                  | STORAGE                                   | F1    | B2   | W1   | W1 | W1 | W1 |       |
| 175                  | INTERVIEW                                 | F1    | B2   | W1   | W1 | W1 | W1 |       |
| 176                  | INTERVIEW                                 | F1    | B2   | W1   | W1 | W1 | W1 |       |
| 177                  | FUTURE C.O.P.                             | F1    | B2   | W1   | W1 | W1 | W1 |       |
| 178                  | VICTIM ADVOCATE                           | F1    | B1   | W2   | W2 | W2 | W2 |       |
| 179                  | JANITOR                                   | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 180                  | MEN'S RESTROOM                            | F6    | B3   | W3   | W3 | W3 | W3 |       |
| 181                  | WOMEN'S RESTROOM                          | F6    | B3   | W3   | W3 | W3 | W3 |       |
| 182                  | AV CLOSET                                 | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 183                  | STORAGE                                   | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 184                  | TABLE / CHAIR STORAGE                     | F3    | B1   | W1   | W1 | W1 | W1 |       |
| 185                  | COMMUNITY AND PUBLIC SAFETY TRAINING ROOM | F9    | B1   | W1   | W1 | W1 | W1 |       |
| 186                  | KITCHEN                                   | F8    | B5   | W1   | W1 | W1 | W1 |       |
| 187                  | MECHANICAL                                | F6    | B3   | W2   | W2 | W2 | W2 |       |
| 201                  | VEHICLE EXAM BAY                          | F3    | B4   | W1   | W1 | W1 | W1 |       |
| 202                  | VEHICLE TRAILER STORAGE                   | F3    | B4   | W1   | W1 | W1 | W1 |       |
| 203                  | PATROL BICYCLE                            | F3    | B4   | W1   | W1 | W1 | W1 |       |
| 204                  | FUND BICYCLE                              | F3    | B4   | W1   | W1 | W1 | W1 |       |
| 205                  | BULK EVIDENCE STORAGE                     | F3    | B4   | W1   | W1 | W1 | W1 |       |
| 206                  | KENNEL                                    | F3    | B4   | W1   | W1 | W1 | W1 |       |



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#### 4. The state

- | Component<br>Elevation<br>above grade | Effective Wind Area for Component(sq.ft.) |           |           |            |            |
|---------------------------------------|-------------------------------------------|-----------|-----------|------------|------------|
|                                       | 10 sq.ft.                                 | 20 sq.ft. | 50 sq.ft. | 100 sq.ft. | 500 sq.ft. |
| 0-15 ft                               | 39.91                                     | 37.26     | 33.70     | 30.94      | 24.73      |
| 20 ft                                 | 39.91                                     | 37.26     | 33.70     | 30.94      | 24.73      |
| 25 ft                                 | 39.91                                     | 37.26     | 33.70     | 30.94      | 24.73      |
| 30 ft                                 | 39.91                                     | 37.26     | 33.70     | 30.94      | 24.73      |
| 35 ft                                 | 41.90                                     | 39.12     | 35.38     | 32.48      | 25.96      |
| 40 ft                                 | 43.50                                     | 40.61     | 36.73     | 33.72      | 26.95      |

## 1010

- ## EARTHWORK
1. All footings shall bear on a minimum of 3 feet of engineered structural fill. The depth and lateral extent of the engineered fills is presented in the Earthwork section of the soils report. See detail 3/S501.
  2. Consult the project specifications and soils report for further earthwork requirements.

## 4. All functions are

#### 4. Materials

3. Only one grade or type of concrete shall be poured on the site at any given time.
4. The contractor shall be responsible for the design, detailing, care, placement and removal of all formwork and shores.

7. Construction
  - a. Chains or other support devices recommended by the CRSI to support and tie reinforcement bars prior to placing concrete. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete.
  - b. Concrete to be mechanically consolidated during placement per ACI standards.
  - c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, and other items with the structural engineer.
  - d. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to placement of concrete.
  - e. No pipes, ducts, sleeves, etc. shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be sealed to the wall prior to placement of concrete. Penetrations through beams and grade beams unless detailed. Piping shall be routed around footings and grade beams and unless detailed. Footings shall be stepped to avoid piping.
  - f. Reinforcement Bars shall be installed in accordance with drawings for DBAs or HSAs.

- ## POST-INSTALLED ANCHORS

#### 4. EPOXY ANCHORS

- b. Detailing requirements
  - a. Vertical reinforcement per "Massive Reinforcing Lap Schedule" on sheet S801
  - b. All vertical reinforcing shall be doweled to the foundation wall, footing (structure below) and to the structure below with the same size dowel, spacing (and in the same core) as the vertical wall reinforcement.
  - c. Corner Bars. Horizontal reinforcement shall be continuous at all corners and at all intersecting walls. Provide corner bars with the required lap splice length.
  - d. Openings. For openings less than 48" diameter, provide horizontal reinforcing on all sides per detail 11VS501. Also, for all scheduled openings, provide horizontal bar at bottom of opening per detail 11VS501. Vertical bars shall extend from floor level below to floor level above, or roof level, and shall be lapped at least 12" above the top of the opening. For 48" diameter bars beyond the corners of the opening. Where a 48" diameter extension is not possible, extend bars as far beyond the opening as possible and terminate the bar(s) at least 36" degree slope from the opening.
  - e. Horizontal wall reinforcing shall be continuous through joining concrete walls, masonry walls, columns, and pilasters. Provide a key between the wall and the column or pilaster.
  - f. Horizontal wall reinforcing shall be continuous through concrete walls and masonry walls.
  - g. Horizontal wall reinforcing shall terminate with a hook at edge of openings and at each side of control joints except at floor and roof levels, inlets, beams and at top of parapets. See detail 10VS501
  - h. All masonry column ties shall terminate with 135 degree hook plus a 6" bar diameter extension.

#### 4. Materials

- a. All welding and cutting shall be performed by AWS certified welders.
- b. Use E-70 XX or as noted otherwise. E60 XX may be used for welding steel roof decks.
- c. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
- d. Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine anchors or headed bar anchors (HSAs).
- e. Do not weld anchor bolts, including "jack" welds.
- f. Headed Stud Anchors (HSAs) welding and bolted bar anchor welding shall conform to the manufacturer's specifications.

- ## METAL DECKING
- 1. Steel deck shall comply with the latest requirements of the Steel Deck Institute.
  - 2. All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible, the contractor shall provide heavier gauge deck as required to provide the equivalent loading of the 3-span continuous deck.
  - 3. Steel roof deck shall not be used to support loads from plumbing, HVAC ducts, light fixtures, architectural elements or equipment of any kind, unless specifically noted. Light weight suspended acoustical ceilings with a total weight of 50 lbs per attachment may be hung from roof deck.
  - 4. Deck hangers shall be staggered to distribute the loads over multiple deck flutes.
  - 5. Deck supporting members shall be dry before welding
  - 6. Clinkers shall before welding intersecting seams.

- a. Steel roof deck shall be 1.1/2" deep X 20 gage minimum painted (see S-121 where 18 Gage

## Minir

- ## COLD-FORMED STEEL

1. Soils (IBC 1704.7)
  - a. Prior to placement of the prepared fill, the special inspector shall determine that the site has been prepared in accordance with the soils report.
  - b. During the spread and compaction of the fill material, the special inspector shall determine

- c. The special inspector shall determine that the in-place dry density of the compacted fill material complies with the soils report.
  - i. Continuous Footing Backfill: At each compacted backfill layer, at least one test for

footing.

- a. Continuous special inspection shall be provided
- b. Cylinders, slump, temperature and air-entrainment shall be done for every 50 cubic yards or each day's production if the day's production is less than 50 cubic yards.

- Periodic special inspection of roof decks.
- Periodic special inspection of single pass fillet welds less than or equal to 5/16"
- Continuous special inspection of single pass fillet welds greater than 5/16" and multi-pass fillet welds.

12. Post-Install Anchors (ICC Section 1704.13)
- a. Epoxy Anchors
    - i. Special inspection shall be performed per manufacturer's requirements and approved ICC-ES reports noted in Post-Installed Anchor section of the General Structural Notes prior to installation of epoxy and anchor rod.
  - b. Mechanical Anchors and Screw Anchors
    - i. Special inspection shall be performed per manufacturer's requirements and approved ICC-ES reports noted in POST INSTALLED ANCHOR section of the General Structural Notes prior to installation of mechanical or screw anchor.

1. Prior to footing pours
2. Prior to masonry grout pours
3. After substantial portion of roof steel framing is erected
4. After roof deck is welded and prior to roofing

1. Open Web Steel Joists and Girders
2. Cold Formed metal framing

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|     |                             |        |                        |
|-----|-----------------------------|--------|------------------------|
| GA  | GAUGE                       | T&B    | TOP AND BOTTOM         |
| VAL | VALVANCED                   | TEMP   | TEMPERATURE            |
| GSB | GENERAL STRUCTURAL NOTES    | THDS   | THIRDS                 |
|     |                             | T.O.   | TOP OF                 |
| HB  | HORIZONTAL BRIDGING         | TOC    | TOP OF CONCRETE        |
| HB  | HORIZONTAL                  | T.O.D. | TOP OF DECK            |
| HR  | HORIZONTAL                  | T.O.F. | TOP OF FOOTING         |
| HR  | HORIZONTAL                  | TOS    | TOP OF STEEL           |
| HR  | HORIZONTAL STUD ANCHOR      | TOW    | TOP OF WALL            |
|     | HEIGHT                      | TYP    | TYPICAL                |
| ICc | INTERNATIONAL CODE COUNCIL  |        |                        |
| IBC | INTERNATIONAL BUILDING CODE | UNO    | UNLESS NOTED OTHERWISE |
| IN  | INSIDE FACE                 |        |                        |
| IN  | INCH                        | VERT   | VERTICAL               |
| INT | INTERIOR                    |        |                        |
| JT  | JOINT                       | WT     | WITH WALL THICKNESS    |
| JST | JOIST                       | W/T    | WALL THICKNESS         |

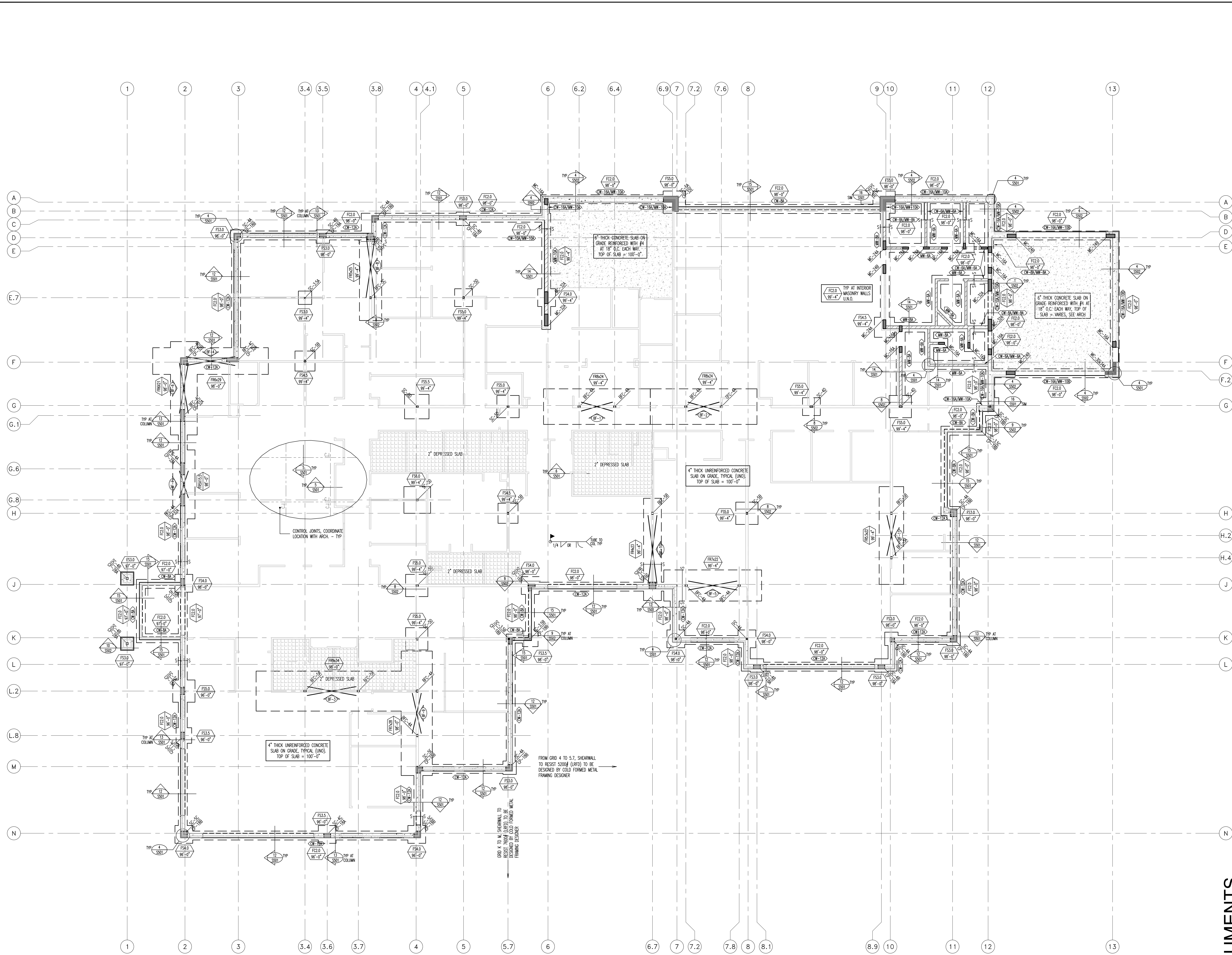
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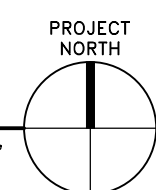
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FOOTING AND FOUNDATION PLAN

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



- MARKS AND SYMBOLS LEGEND**
- SECTION MARK  
SHEET NUMBER
  - FOOTING DESIGNATION  
TOP OF FOOTING ELEVATION
  - S—S  
INDICATES FOOTING STEP. SEE DETAILS 2/5502 AND 3/5502.
  - INDICATES CONCRETE WALL.
  - INDICATES MASONRY WALL.
  - DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAILS 12/5501 AND 1/5502.
  - INDICATES DEPRESSURED SLAB. SEE ARCHITECTURAL PLANS.
  - INDICATES CONCRETE FOUNDATION WALL TYPE. SEE SCHEDULE ON SHEET S601.
  - INDICATES MASONRY WALL (AND TYPE) OVER CONCRETE WALL. SEE SCHEDULES ON SHEET S601.
  - FCxx  
INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S601.
  - FSxx  
INDICATES SPOT FOOTING. SEE SCHEDULE ON SHEET S601.
  - FTSxx  
INDICATES THICKENED SLAB FOOTING. SEE SCHEDULE ON SHEET S601.
  - C.J.  
INDICATES CONTROL/CONSTRUCTION JOINT. SEE DETAILS 5/5501 AND 6/5501.
  - SC-xx  
INDICATES STEEL COLUMN. SEE SCHEDULE ON SHEET S602.
  - CP-xx  
INDICATES CONCRETE PIER. SEE SCHEDULE ON SHEET S601.
  - MC-xx  
INDICATES MASONRY COLUMN TYPE. SEE SCHEDULE ON SHEET S601.
  - BF-xx  
INDICATES BRACED FRAME. SEE ELEVATIONS ON SHEET S202.
  - BFC-xx  
INDICATES BRACE FRAME COLUMN. SEE SCHEDULE ON SHEET S201.

- FOOTING AND FOUNDATION PLAN NOTES**
- COORDINATE LOCATION OF DEPRESSURED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
  - SEE ARCHITECTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
  - ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
  - SEE DETAILS 7/5501 AND 8/5501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
  - SEE DETAILS 5/5501 AND 6/5501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN CONCRETE SLAB ON GRADE.
  - SEE DETAIL 7/5501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.
  - SEE DETAIL 8/5501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
  - SEE DETAIL 9/5501 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
  - SEE DETAIL 10/5501 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
  - SEE DETAIL 11/5501 FOR ADDITIONAL REINFORCING IN MISCELLANEOUS OPENINGS IN MASONRY WALLS.
  - SEE DETAIL 7/5502 FOR ADDITIONAL REINFORCING IN MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

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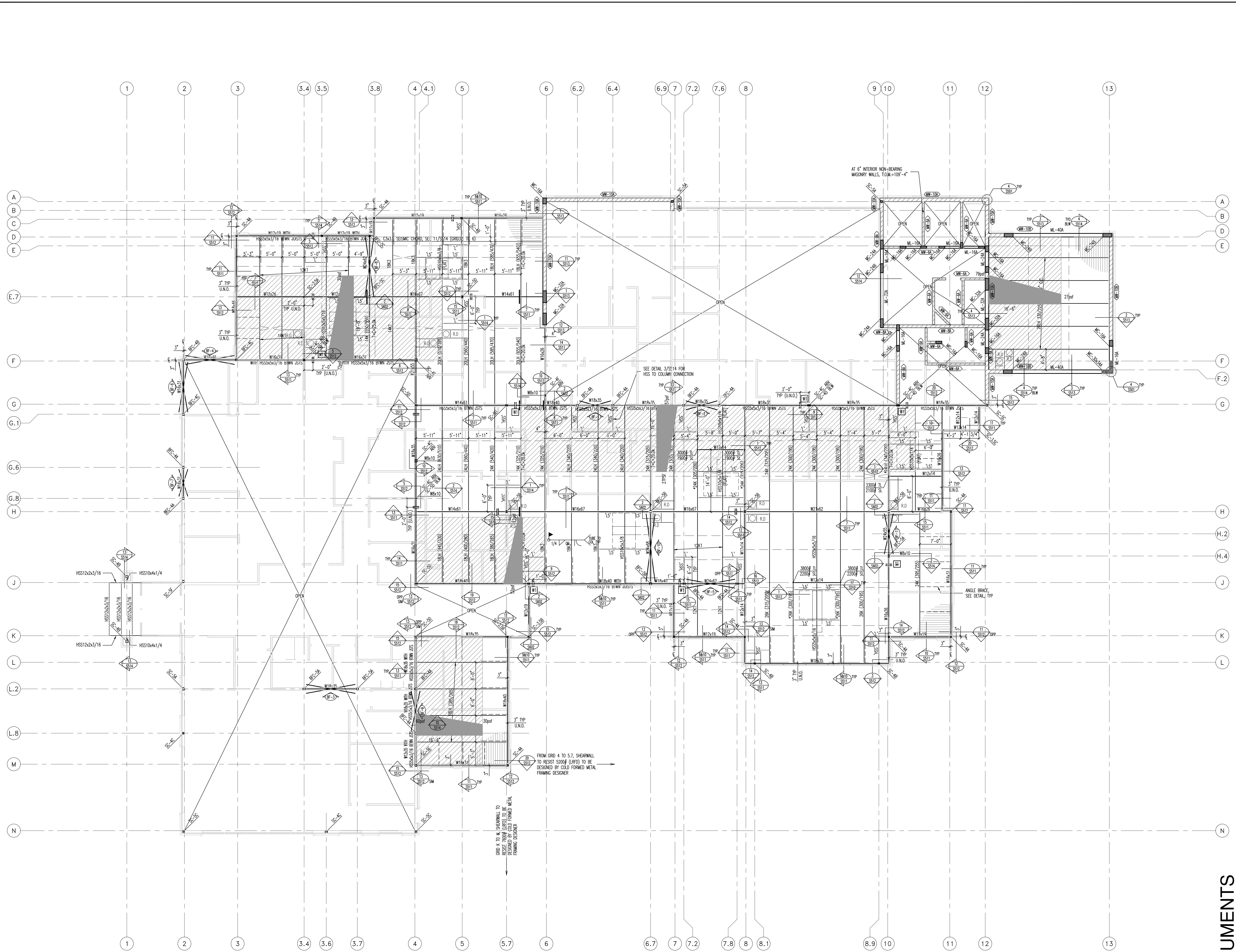
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**FOOTING  
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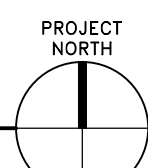
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ROOF FRAMING PLAN

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



| MARKS AND SYMBOLS LEGEND |                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------|
|                          | SECTION MARK                                                                            |
|                          | SHEET NUMBER                                                                            |
|                          | INDICATES MOMENT CONNECTION, SEE DETAILS.                                               |
|                          | INDICATES MASONRY WALL WHICH EXTENDS ABOVE ROOF DECK.                                   |
|                          | INDICATES MASONRY WALL WHICH STOPS AT ROOF DECK.                                        |
|                          | INDICATES METAL ROOF DECK, SEE GENERAL STRUCTURAL ON SHEET S001.                        |
|                          | INDICATES JOIST TOP CHORD TIES, SEE DETAILS 7/511 AND 13/501.                           |
|                          | INDICATES MASONRY WALL TYPE, SEE SCHEDULE ON SHEET S001.                                |
|                          | INDICATES THAT THESE JOISTS SHALL BE DESIGNED FOR AN ALLOWED OF 1000# AT ANY POINT.     |
| $T=C+x$                  | INDICATES ADDITIONAL TOP CHORD ALLOWABLE LOAD, DUE TO SEISMIC, NO 1/3 INCREASE ALLOWED. |
| $L_X (**/**)$            | INDICATES K-SERIES JOIST WITH ALLOWABLE TOTAL LOAD / ALLOWABLE LIVE (SNOW) LOAD.        |
| $L_H (**/**)$            | INDICATES LH-SERIES JOIST WITH ALLOWABLE TOTAL LOAD / ALLOWABLE LIVE (SNOW) LOAD.       |
| $SC-x$                   | INDICATES STEEL COLUMN, SEE SCHEDULE ON SHEET S002.                                     |
| $BFC-x$                  | INDICATES STEEL BRACE FRAME COLUMN, SEE SCHEDULE ON SHEET S001.                         |
| $BF-x$                   | INDICATES BRACED FRAME, SEE ELEVATIONS ON SHEET S002.                                   |
| $MC-x$                   | INDICATES MASONRY COLUMN TYPE, SEE SCHEDULE ON SHEET S001.                              |
| $ML-x$                   | INDICATES MASONRY UNITS TYPE, SEE SCHEDULE ON SHEET S001.                               |
| R.D.                     | INDICATES ROOF DRAIN, SEE DETAIL 2/501.                                                 |
| WI                       | INDICATES FIELD WELDING REQUIRED AT SHEAR TAB CONNECTION, SEE 2/502.                    |

- ROOF FRAMING PLAN NOTES**
- VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHIFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT MASONRY WALLS TO TRANSFER 1500# (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING SHOE.
  - ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (UNO).
  - ALL ROOF OPENINGS GREATER THAN OR EQUAL TO 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS 1/511 AND 2/511. FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, SEE DETAIL 3/511.
  - SEE DETAIL 4/511 WHEN CONCENTRATED LOADS ARE LOCATED MORE THAN 6" FROM JOIST OR JOIST ORDER PANEL POINT.
  - SEE DETAIL 5/511 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
  - VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAIL 6/511 FOR STEEL FRAMES AT ALL ROOF TOP EQUIPMENT. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
  - LOCATE MISCELLANEOUS MECHANICAL OPENINGS BETWEEN JOISTS, NOT UNDERNEATH THEM.
  - OPEN WEB STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS. IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
  - JOIST BRIDGING SHOWN ON PLANS IS FOR REPRESENTATION ONLY; ACTUAL SIZE, QUANTITY, AND LOCATION WILL BE DETERMINED BY THE JOIST SUPPLIER PER S&P REQUIREMENTS. ALL BRIDGING AND BRIDGING ANCHORS NEED TO BE IN PLACE BEFORE APPLYING ANY LOADS. WHERE SKYLIGHT OR MECHANICAL UNITS/DUCTS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE OF THE OPENING. WHERE DIAGONAL BRIDGING CONFLICTS WITH MECHANICAL DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING AFTER ROOF DECK IS IN PLACE.
  - JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR UPLIFT DUE TO WIND. ASSUME:  
DEAD LOAD = 7psf  
WIND UPLIFT = 20psf (GROSS)  
NO 1/3 STRESS INCREASE ALLOWED.
  - SEE DETAIL 11/501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN MASONRY WALLS.
  - SEE DETAIL 9/501 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
  - SEE DETAIL 10/501 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
  - SEE DETAIL 3/502 FOR BRIDGING OF NON-BEARING MASONRY WALLS.
  - SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.
  - WHERE OPENING EXCEEDS 10'-0" PROVIDE TYPICAL VENEER LEDGER DETAIL AT METAL STUD UNITS.

- SNOW DRIFT LEGEND**
- INDICATES AREA OF SNOW DRIFT.
- INDICATES ADDITIONAL LOADING DUE TO SNOW DRIFT (SEE NOTE #1).  
 $X$  = LOAD AT DRIFT HIGH POINT  
 $Y$  = LENGTH OF DRIFT
- INDICATES ADDITIONAL LOADING DUE TO SNOW DRIFT (SEE NOTE #1).  
 $X$  = LOAD AT DRIFT HIGH/LOW POINT  
 $Y$  = LENGTH OF DRIFT
- SEE PLAN FOR SNOW DRIFT LOADS; THESE LOADS ARE IN ADDITION TO THE JOIST UNIFORM AND POINT LOADS SHOWN ON PLANS. JOIST SUPPLIER TO ADD SNOW DRIFT LOAD TO BOTH JOISTS AND ORDERS.

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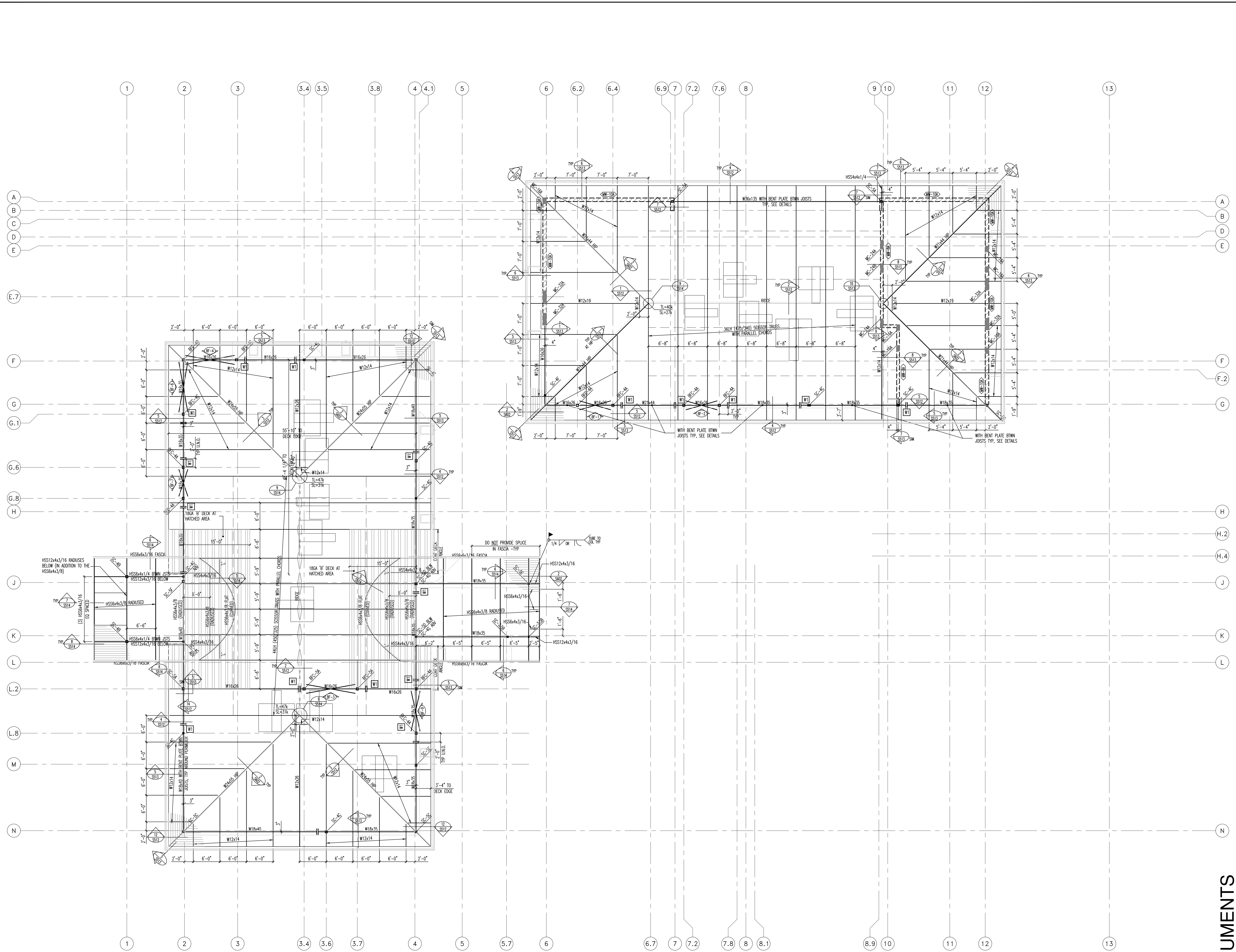
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ROOF FRAMING PLAN

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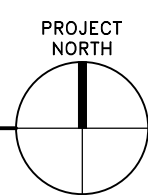
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HIGH ROOF FRAMING PLAN

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



| MARKS AND SYMBOLS LEGEND |                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------|
|                          | SECTION MARK                                                                            |
|                          | SHEET NUMBER                                                                            |
|                          | INDICATES MOMENT CONNECTION, SEE DETAILS.                                               |
|                          | INDICATES MASONRY WALL WHICH EXTENDS ABOVE ROOF DECK.                                   |
|                          | INDICATES MASONRY WALL WHICH STOPS AT ROOF DECK.                                        |
|                          | INDICATES METAL ROOF DECK, SEE GENERAL STRUCTURAL ON SHEET S001.                        |
|                          | INDICATES JOIST TOP CHORD TIES, SEE DETAILS 7/511 AND 13/501.                           |
|                          | INDICATES MASONRY WALL TYPE, SEE SCHEDULE ON SHEET S001.                                |
|                          | INDICATES THAT THESE JOISTS SHALL BE DESIGNED FOR AN ALLOWED OF 1000# AT ANY POINT.     |
|                          | INDICATES ADDITIONAL TOP CHORD ALLOWABLE LOAD, DUE TO SEISMIC, NO 1/3 INCREASE ALLOWED. |
|                          | INDICATES K-SERIES JOIST WITH ALLOWABLE TOTAL LOAD / ALLOWABLE LIVE (SNOW) LOAD.        |
|                          | INDICATES LH-SERIES JOIST WITH ALLOWABLE TOTAL LOAD / ALLOWABLE LIVE (SNOW) LOAD.       |
|                          | INDICATES STEEL COLUMN, SEE SCHEDULE ON SHEET S002.                                     |
|                          | INDICATES STEEL BRACE FRAME COLUMN, SEE SCHEDULE ON SHEET S001.                         |
|                          | INDICATES BRACED FRAME, SEE ELEVATIONS ON SHEET S002.                                   |
|                          | INDICATES MASONRY COLUMN TYPE, SEE SCHEDULE ON SHEET S001.                              |
|                          | INDICATES MASONRY UNIT TYPE, SEE SCHEDULE ON SHEET S001.                                |
|                          | INDICATES ROOF DRAIN, SEE DETAIL 2/511.                                                 |
|                          | INDICATES FIELD WELDING REQUIRED AT SHEAR TAB CONNECTION, SEE 2/502.                    |

- ROOF FRAMING PLAN NOTES**
- VERIFY ALL ROOF OPENINGS FOR MECHANICAL SHIFTS, DRAINS, ETC. WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
  - JOIST SUPPLIER SHALL DESIGN ALL ROOF JOIST BEARING ENDS AT MASONRY WALLS TO TRANSFER 1500# (ALLOWABLE) AXIAL LOAD THROUGH JOIST BEARING SHOE.
  - ALL JOISTS SHALL HAVE 5" DEEP BEARING ENDS (MIN).
  - ALL ROOF OPENINGS GREATER THAN, OR EQUAL TO, 12" x 12" SHALL BE FRAMED AS INDICATED IN DETAILS 1/511 AND 2/511. FOR OPENINGS WHICH CUT LESS THAN TWO DECK FLUTES, SEE DETAIL 5/511.
  - SEE DETAIL 4/511 WHEN CONCENTRATED POINT LOADS ARE LOCATED MORE THAN 6" FROM JOIST OR JOIST GIRDERS PANEL POINT.
  - SEE DETAIL 5/511 WHEN MECHANICAL UNITS ARE HUNG BELOW JOISTS.
  - VERIFY SIZE, WEIGHT, AND LOCATION OF ALL ROOF TOP MECHANICAL UNITS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAIL 4/511 FOR STEEL FRAMES AT ALL ROOF TOP EQUIPMENT. COORDINATE OPENINGS WITH MECHANICAL, ELECTRICAL, AND GENERAL CONTRACTORS.
  - LOCATE MISCELLANEOUS MECHANICAL OPENINGS BETWEEN JOISTS, NOT UNDERNEATH THEM.
  - OPEN WEB STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN.
  - JOIST BRIDGING SHOWN ON PLANS IS FOR REPRESENTATION ONLY; ACTUAL SIZE, QUANTITY, AND LOCATION WILL BE DETERMINED BY THE JOIST SUPPLIER PER "SIP" REQUIREMENTS. ALL BRIDGING AND BRIDGING ANCHORS NEED TO BE IN PLACE BEFORE APPLYING ANY LOADS. WHERE SKYLIGHT OR MECHANICAL UNITS/DUCTS INTERRUPT HORIZONTAL BRIDGING, PROVIDE CROSS BRIDGING AT JOIST SPACES ON EACH SIDE OF THE OPENING. WHERE DIAGONAL BRIDGING CONFLICTS WITH MECHANICAL DUCTS, REMOVE DIAGONAL BRIDGING AND REPLACE WITH HORIZONTAL BRIDGING AFTER ROOF DECK IS IN PLACE.
  - JOIST DESIGNER SHALL DESIGN JOISTS AND SUPPLY ADDITIONAL BRIDGING AS REQUIRED FOR UPLIFT DUE TO WIND. ASSUME:  
DEAD LOAD = 12psf  
WIND UPLIFT = 20psf (GROSS)  
NO 1/3 STRESS INCREASE ALLOWED.
  - SEE DETAIL 11/501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN MASONRY WALLS.
  - SEE DETAIL 9/501 FOR TYPICAL CONTROL JOINTS IN MASONRY WALLS.
  - SEE DETAIL 10/501 FOR TERMINATION OF HORIZONTAL REINFORCING IN MASONRY WALLS.
  - SEE DETAIL 3/502 FOR BRIDGING OF NON-BEARING MASONRY WALLS.
  - SEE ARCHITECTURAL PLANS FOR DIMENSIONS TO ALL STEEL COLUMNS.
  - WHERE OPENING EXCEEDS 10'-0" PROVIDE TYPICAL VENEER LEDGER DETAIL AT METAL STUD UNITS.

- SNOW DRIFT LEGEND**
- INDICATES AREA OF SNOW DRIFT
- INDICATES ADDITIONAL LOADING DUE TO "SNOW DRIFT" (SEE NOTE #1).  
X = LOAD AT DRIFT HIGH POINT  
Y = LENGTH OF DRIFT
- INDICATES ADDITIONAL LOADING DUE TO "SNOW DRIFT" (SEE NOTE #1).  
X = LOAD AT DRIFT HIGH/LOW POINT  
Y = LENGTH OF DRIFT
- SEE PLAN FOR SNOW DRIFT LOADS; THESE LOADS ARE IN ADDITION TO THE JOIST UNIFORM AND POINT LOADS SHOWN ON PLANS. JOIST SUPPLIER TO ADD SNOW DRIFT LOAD TO BOTH JOISTS AND GIRDERS.

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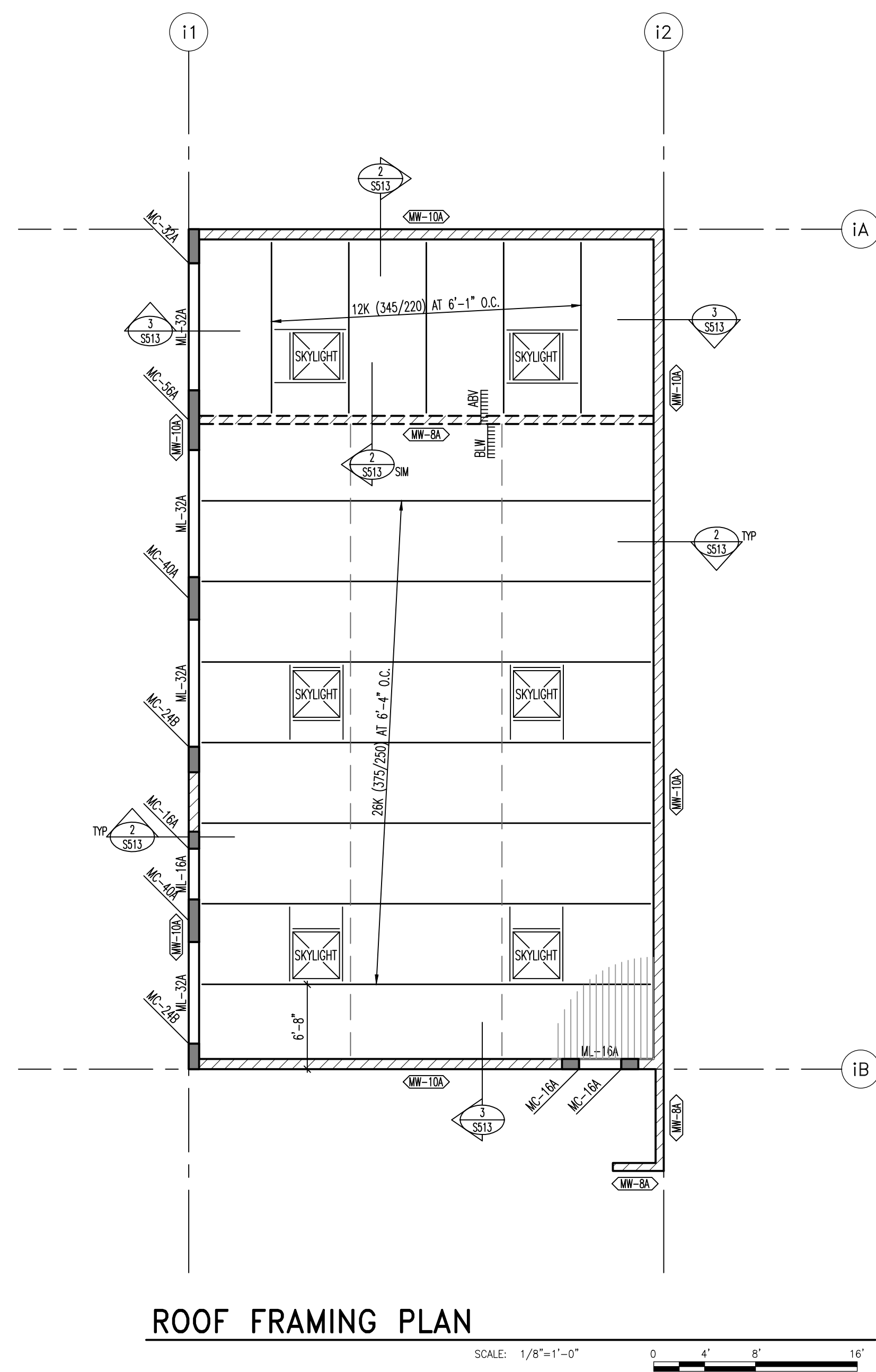
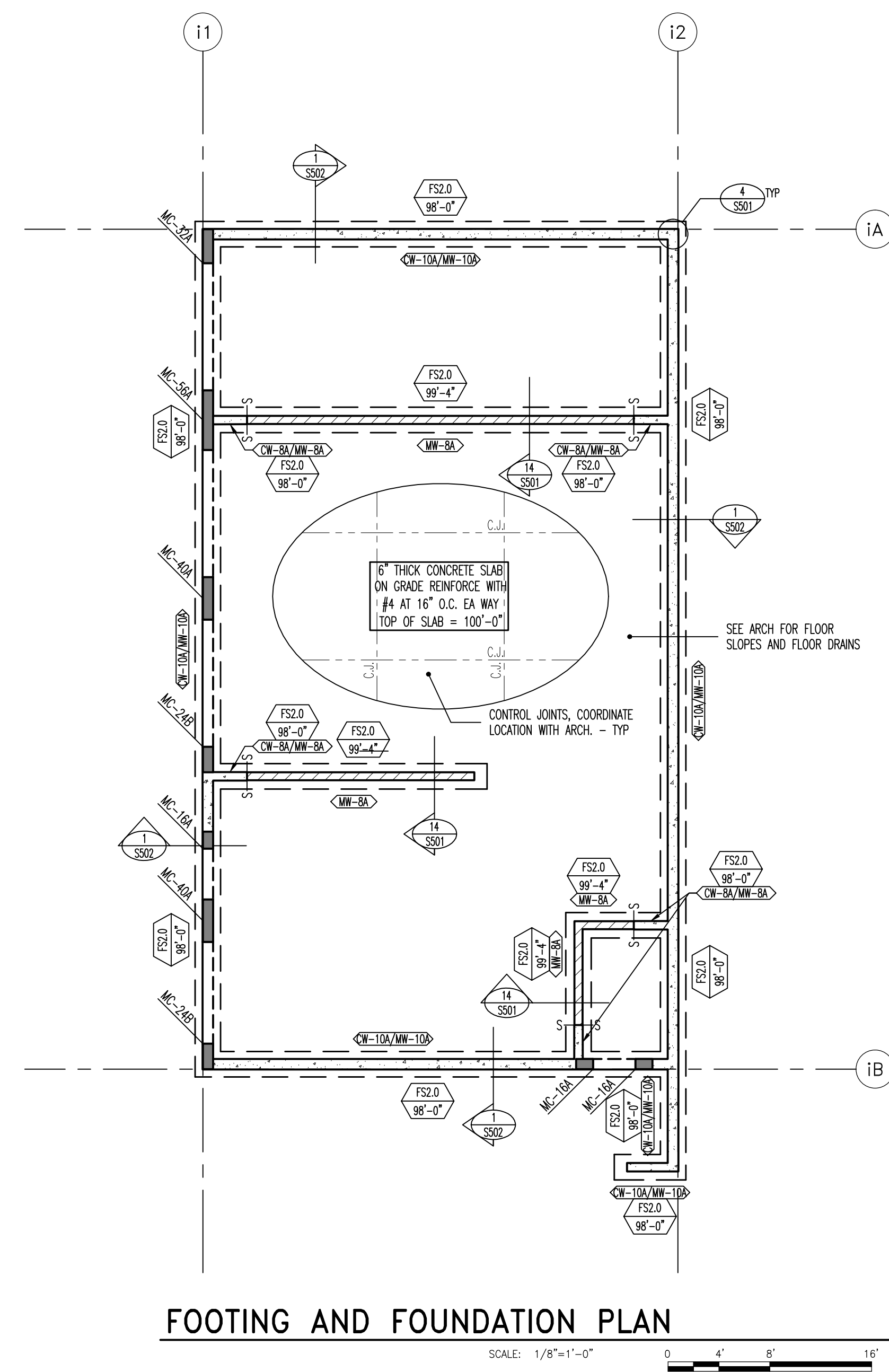
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HIGH ROOF  
FRAMING  
PLAN

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FOR FOOTING AND FOUNDATION NOTES AND LEGENDS REFER TO S101.

FOR ROOF FRAMING NOTES AND LEGENDS REFER TO S111.

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ANCILLARY  
BUILDING  
FOOTING AND  
FOUNDATION AND  
FRAMING PLAN

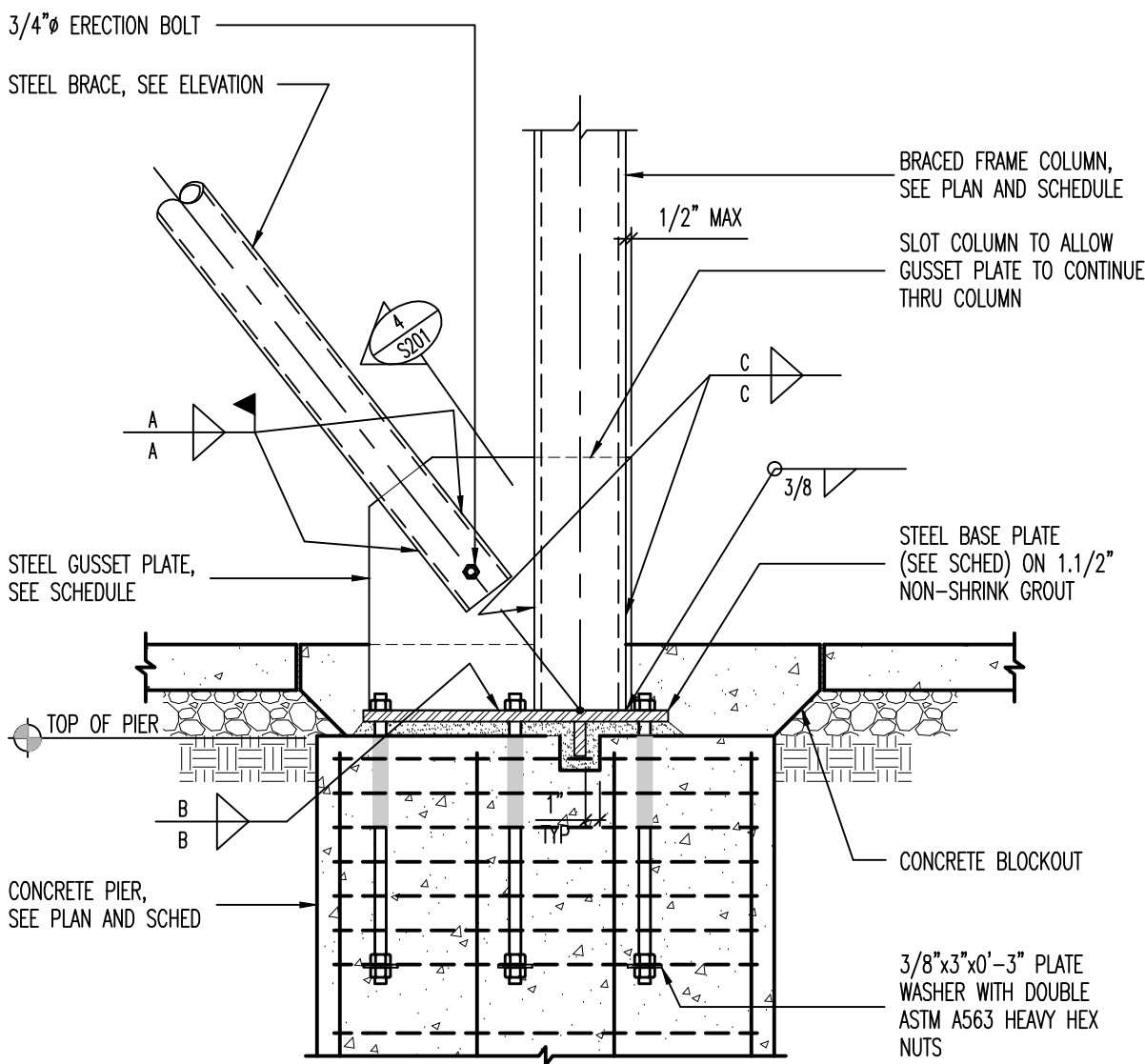
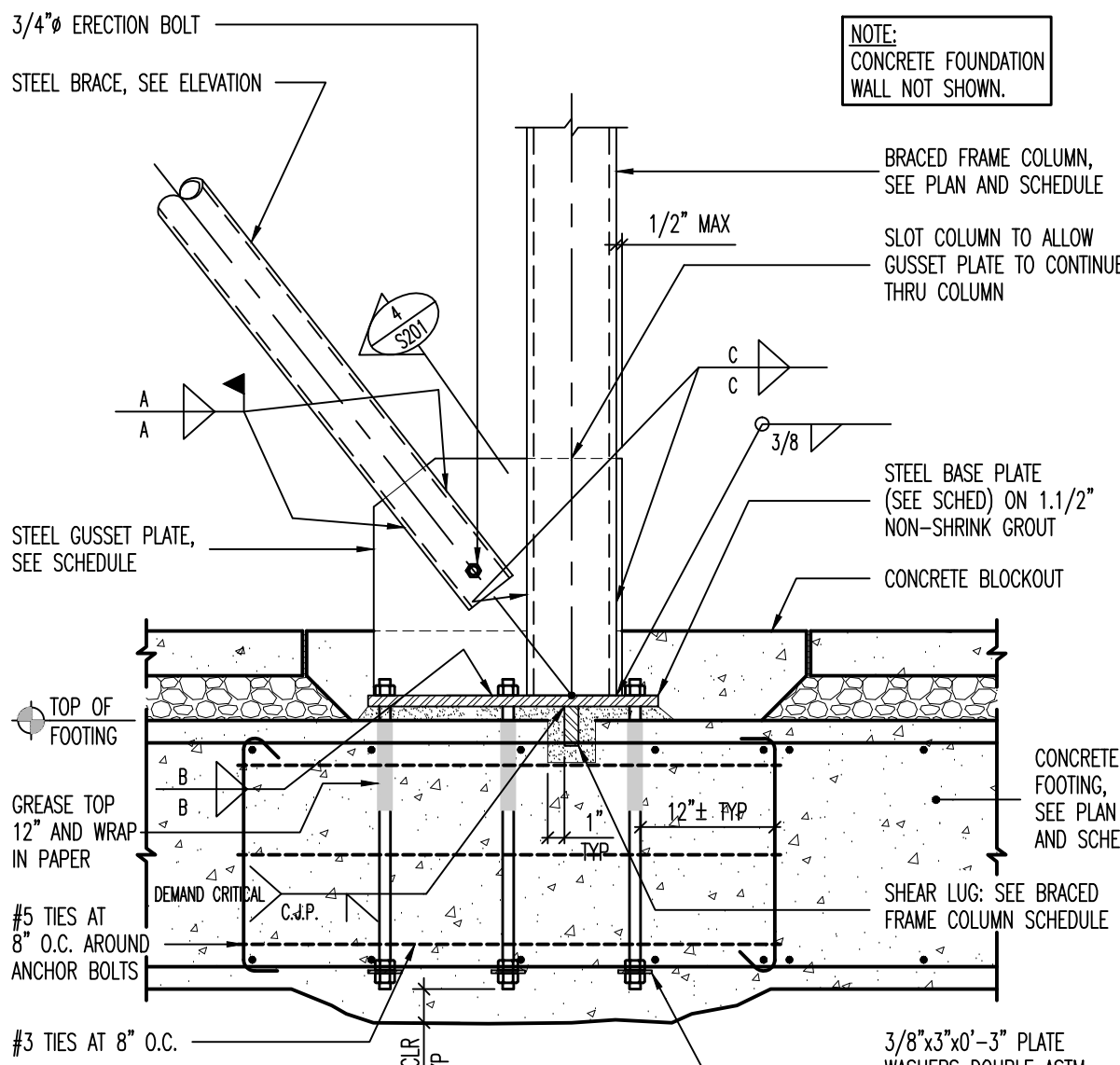
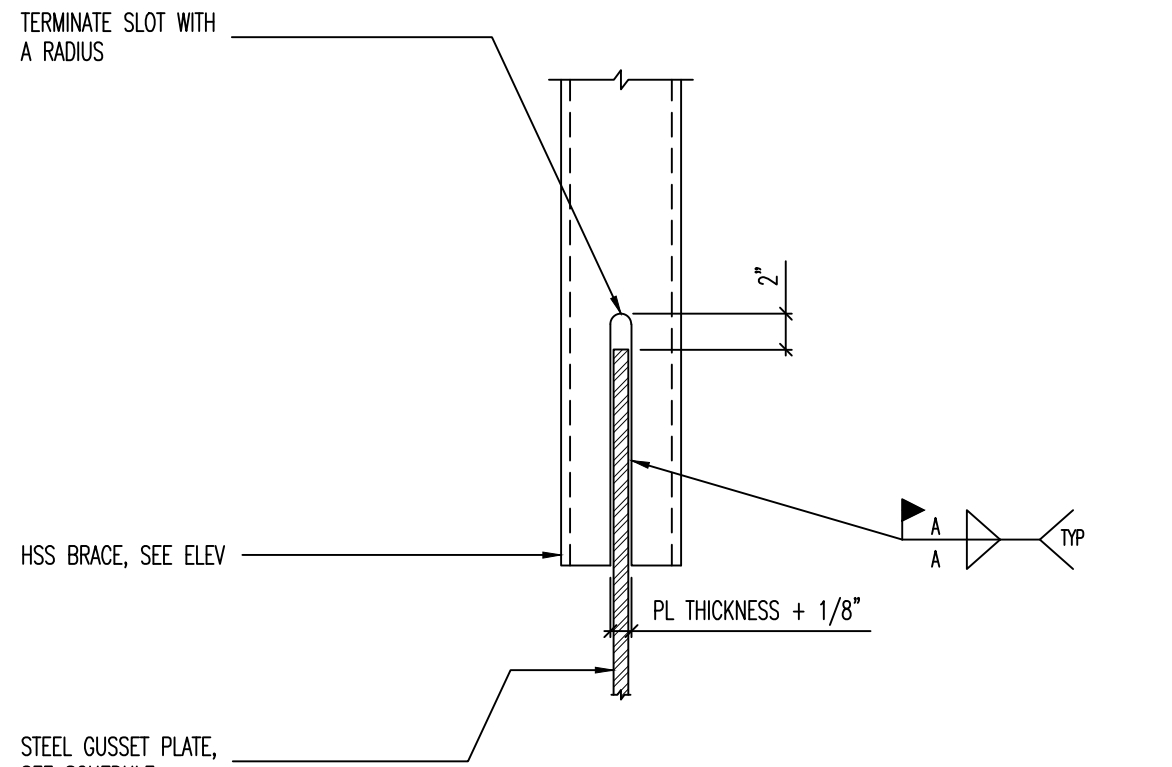
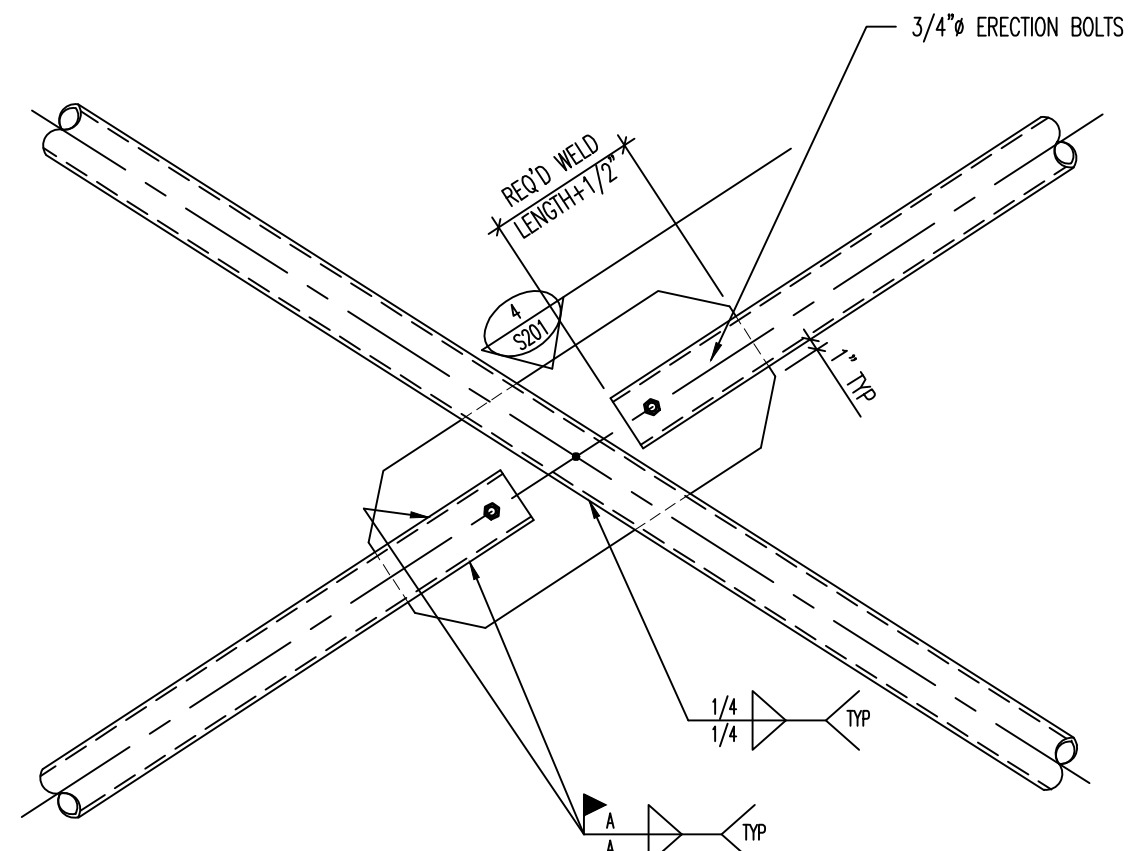
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| BRACED FRAME SCHEDULE |              |                             |                            |                              |
|-----------------------|--------------|-----------------------------|----------------------------|------------------------------|
| BRACE SIZE            | GUSSET PLATE | WELD (A)<br>GUSSET TO BRACE | WELD (B)<br>GUSSET TO BEAM | WELD (C)<br>GUSSET TO COLUMN |
| HSS3x3x1/16           | 1/2"         | 1/4"x5"                     | 5/16"                      | 5/16"                        |
| HSS3x3x1/4            | 1/2"         | 1/4"x8"                     | 5/16"                      | 5/16"                        |
| HSS5x5x1/16           | 3/4"         | 5/16"x10"                   | 5/16"x12"                  | 5/16"x8"                     |
| HSS4x4x1/4            | 1/2"         | 1/4"x6"                     | 5/16"                      | 5/16"                        |

BRACED FRAME ELEVATION NOTES:  
1. SHOP DRAWINGS SHALL DIMENSION ALL WELD LENGTHS



1 BRACED FRAME SCHEDULE

2 TYPICAL BRACED FRAME CONNECTION ON CONCRETE PIER

3 TYPICAL BRACED FRAME CONNECTION

4 STEEL TUBE BRACE AT GUSSET PLATE

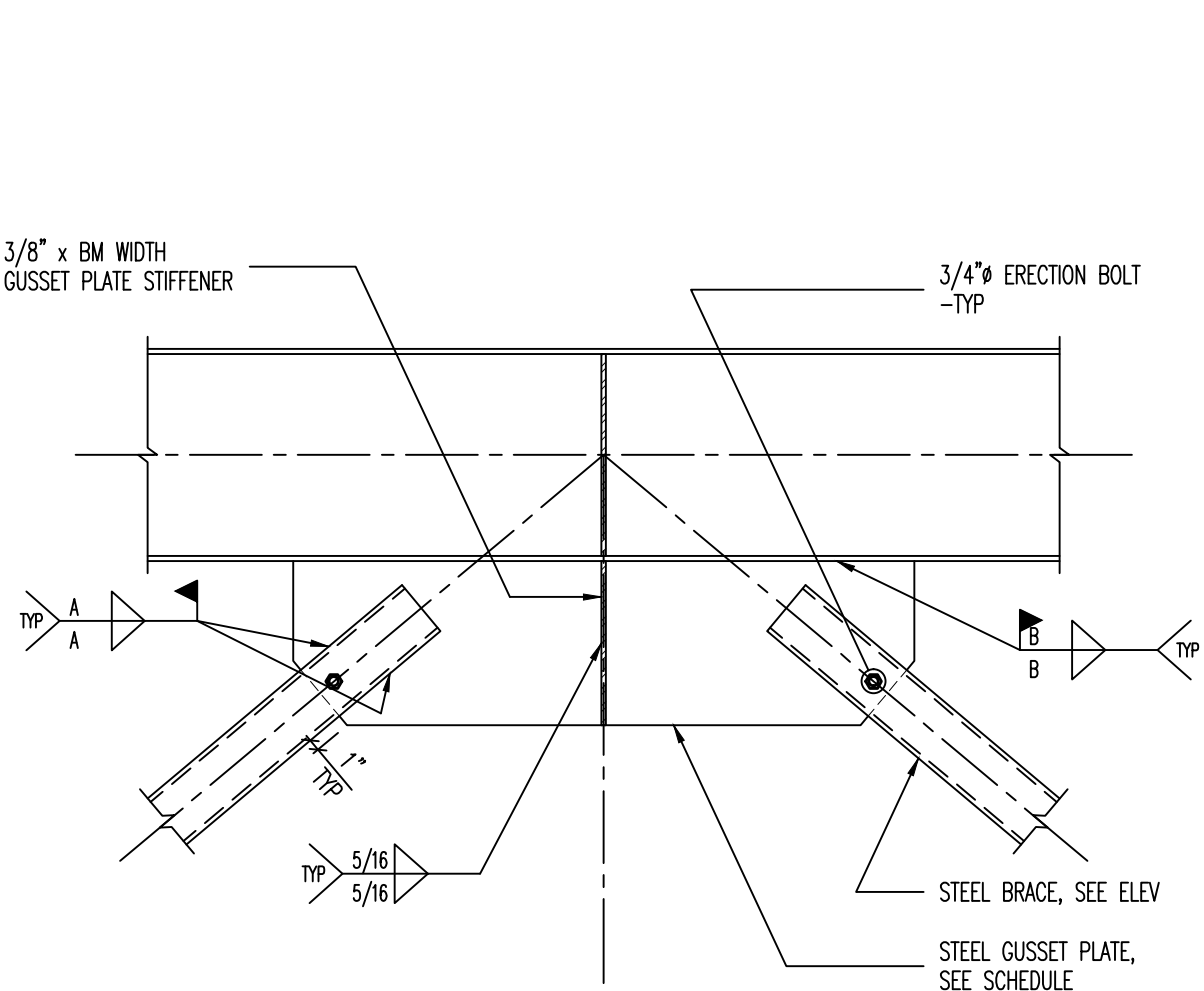
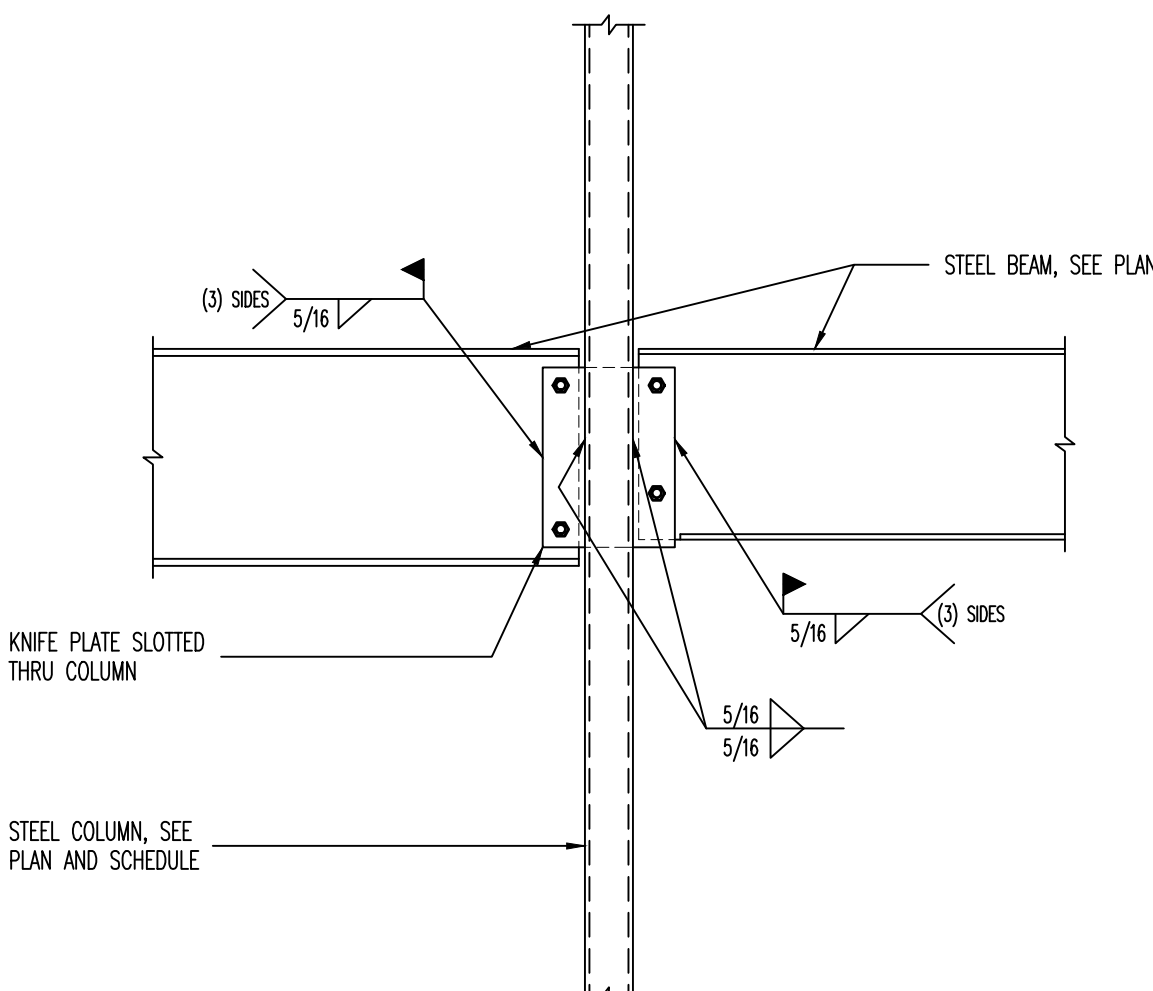
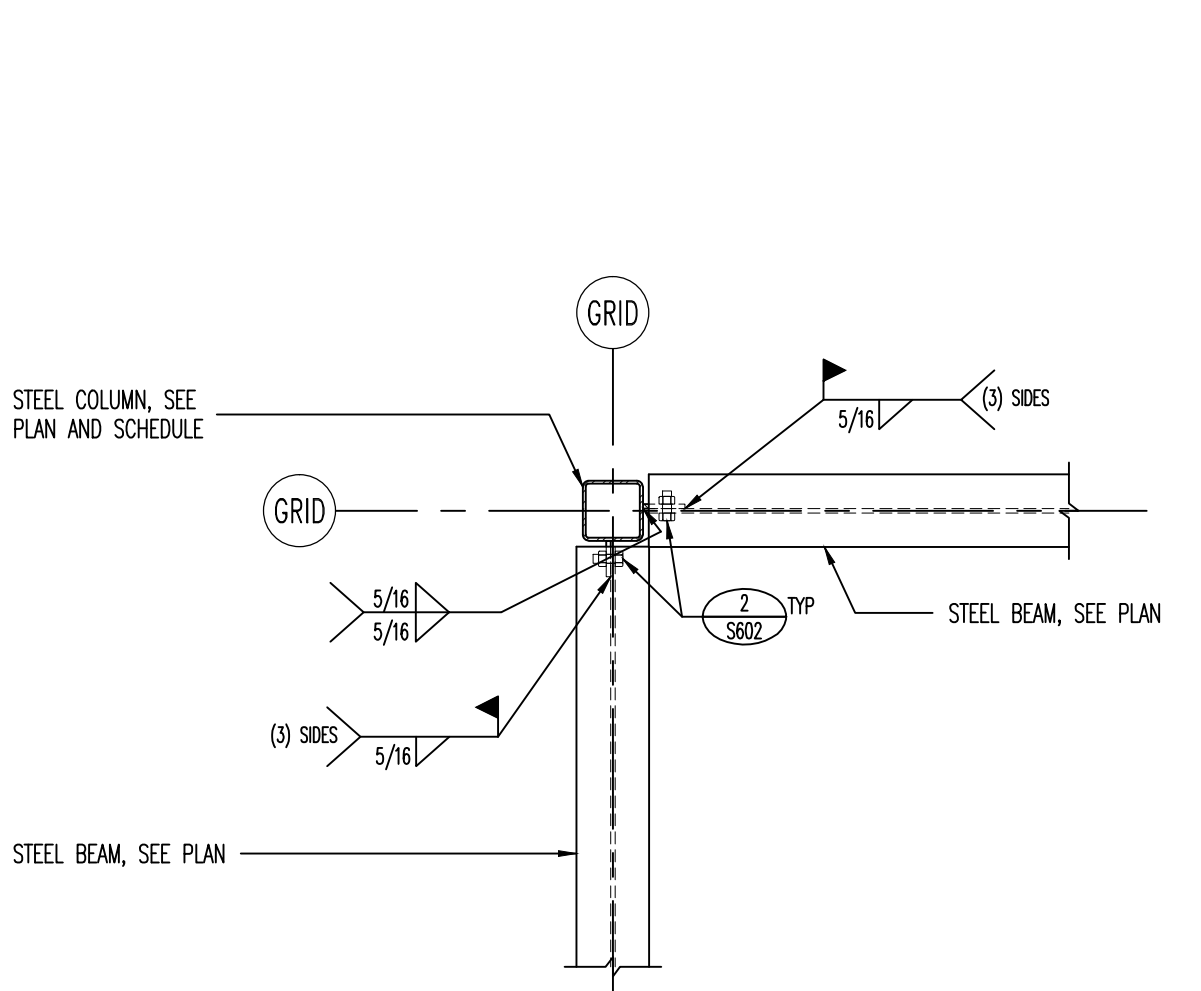
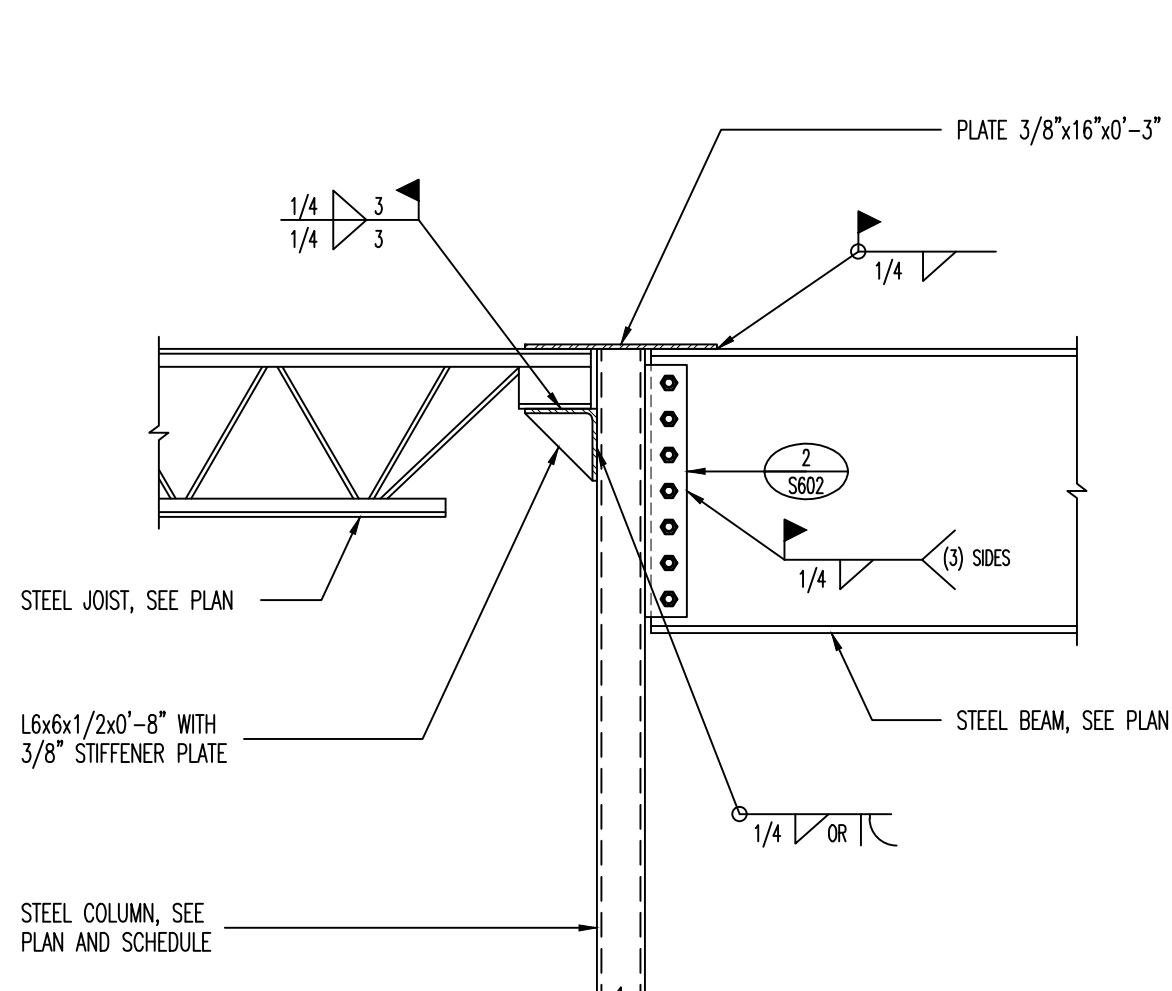
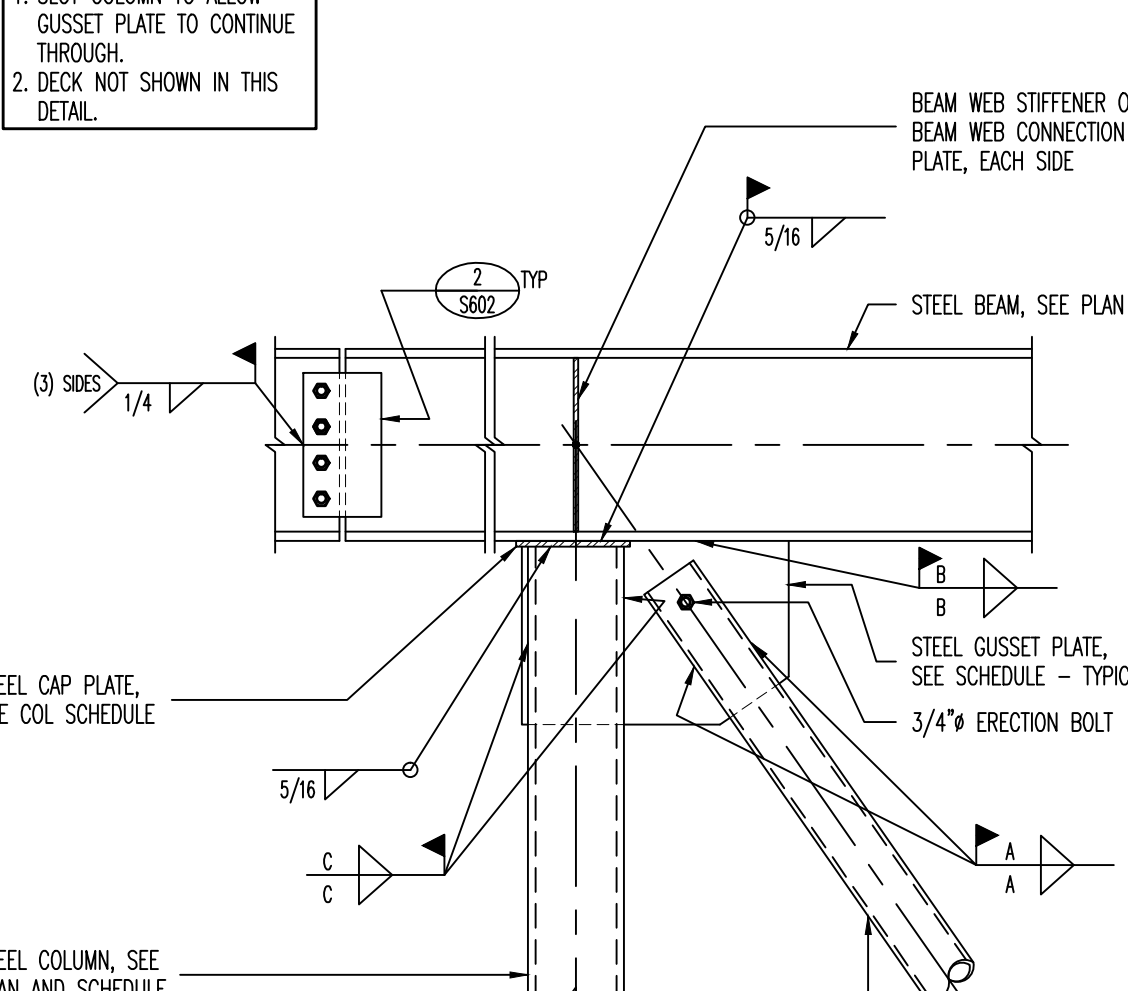
5 BRACED FRAME CONNECTION DETAIL AT "X"

| BRACED FRAME STEEL COLUMN SCHEDULE |            |                  |                  |                  |
|------------------------------------|------------|------------------|------------------|------------------|
| MARK                               | SIZE       | STEEL BASE PLATE | STEEL CAP PLATE  | ANCHOR RODS      |
| BFC-4A                             | HSS4x4x3/8 | 1 1/2" (BFSBP-1) | 1 1/2" (BFSBP-1) | 7/8" x 24" EMBED |
| BFC-4B                             | HSS4x4x3/8 | 1 1/2" (BFSBP-3) | 3/4" COVER PLATE | 7/8" x 24" EMBED |
| BFC-4C                             | HSS4x4x3/8 | 1 1/2" (BFSBP-1) | 1 1/2" (BFSBP-1) | 7/8" x 24" EMBED |
| BFC-5A                             | HSS5x5x3/8 | 1 1/2" (BFSBP-1) | 1 1/2" (BFSBP-1) | 7/8" x 24" EMBED |
| BFC-5B                             | HSS5x5x3/8 | 1 1/2" (BFSBP-1) | 3/8" COVER PLATE | 7/8" x 24" EMBED |

BRACED FRAME STEEL COLUMN NOTES:  
1. UNLESS NOTED OTHERWISE, ALL BRACED FRAME COLUMNS SHALL BE INSTALLED WITH NOTED ANCHOR RODS AND 3/8"x3"x0'-3" PLATE WISHER WITH HEAVY HEX NUT ABOVE AND BELOW PLATE WISHER. PROJECT ANCHOR RODS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE AND EXTEND ANCHOR RODS THROUGH CONCRETE PIER (WHERE OCCURS) TO THE BOTTOM OF THE FOOTING AND OVER-EXCAVATE UNDER FOOTING TO ALLOW 3" COVER. SEE 2.3/SD01. ALL BOLTS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE BOLT DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS.  
2. ALL CAP PLATE BOLTS SHALL BE 3/4" A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.  
3. ANCHOR RODS SHALL NOT BE WELDED (INCLUDING TACK WELDS).  
4. ALL ANCHOR RODS EMBEDDED IN CONCRETE SHALL BE INSTALLED WITHIN CAGE OF CONCRETE PIER REINFORCING.  
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

PLATE LEGEND  
co = 1/2" MINIMUM  
ed = 1/2" MINIMUM  
bc = 3" MINIMUM

6 BRACED FRAME STEEL COLUMN SCHEDULE



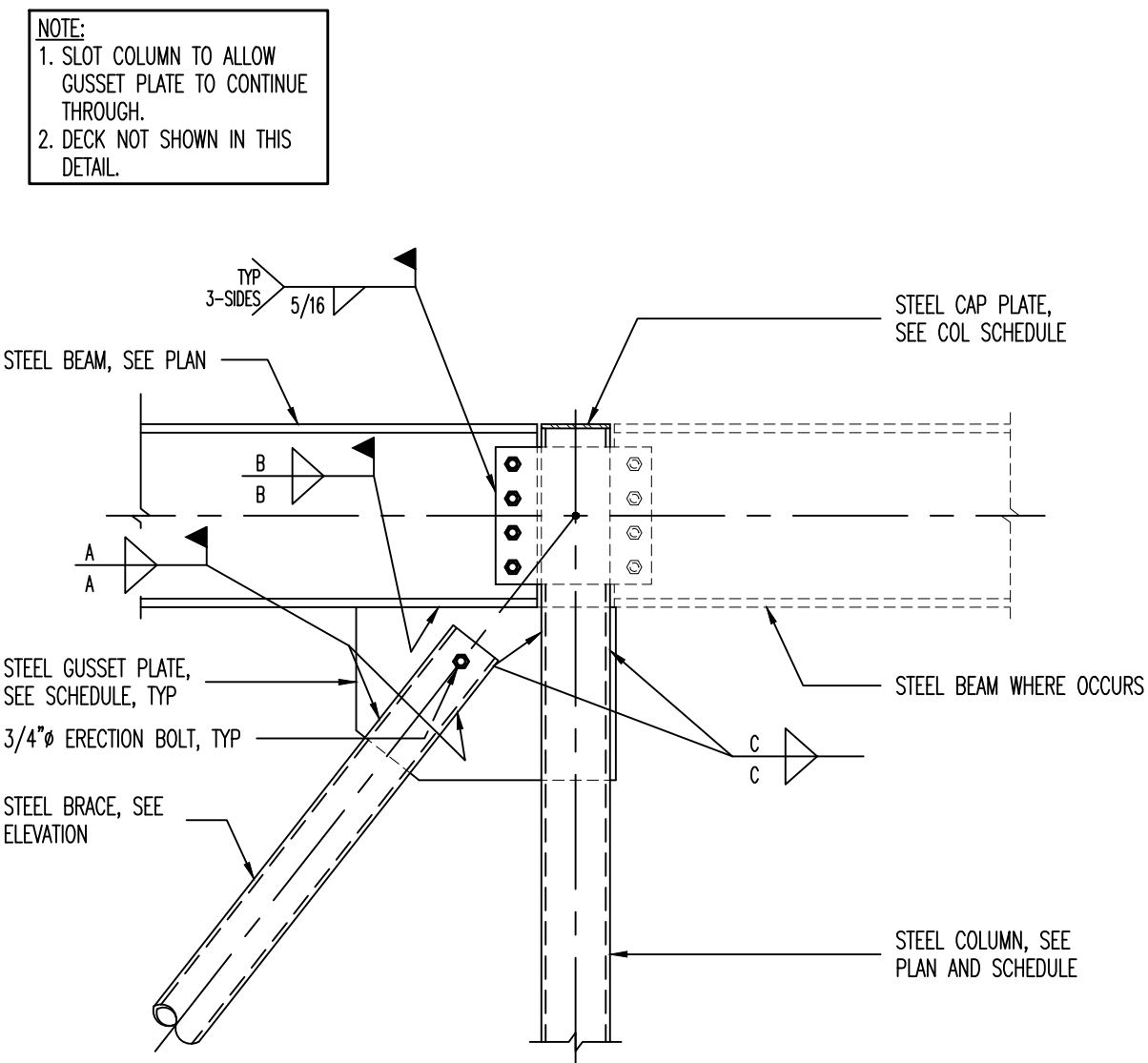
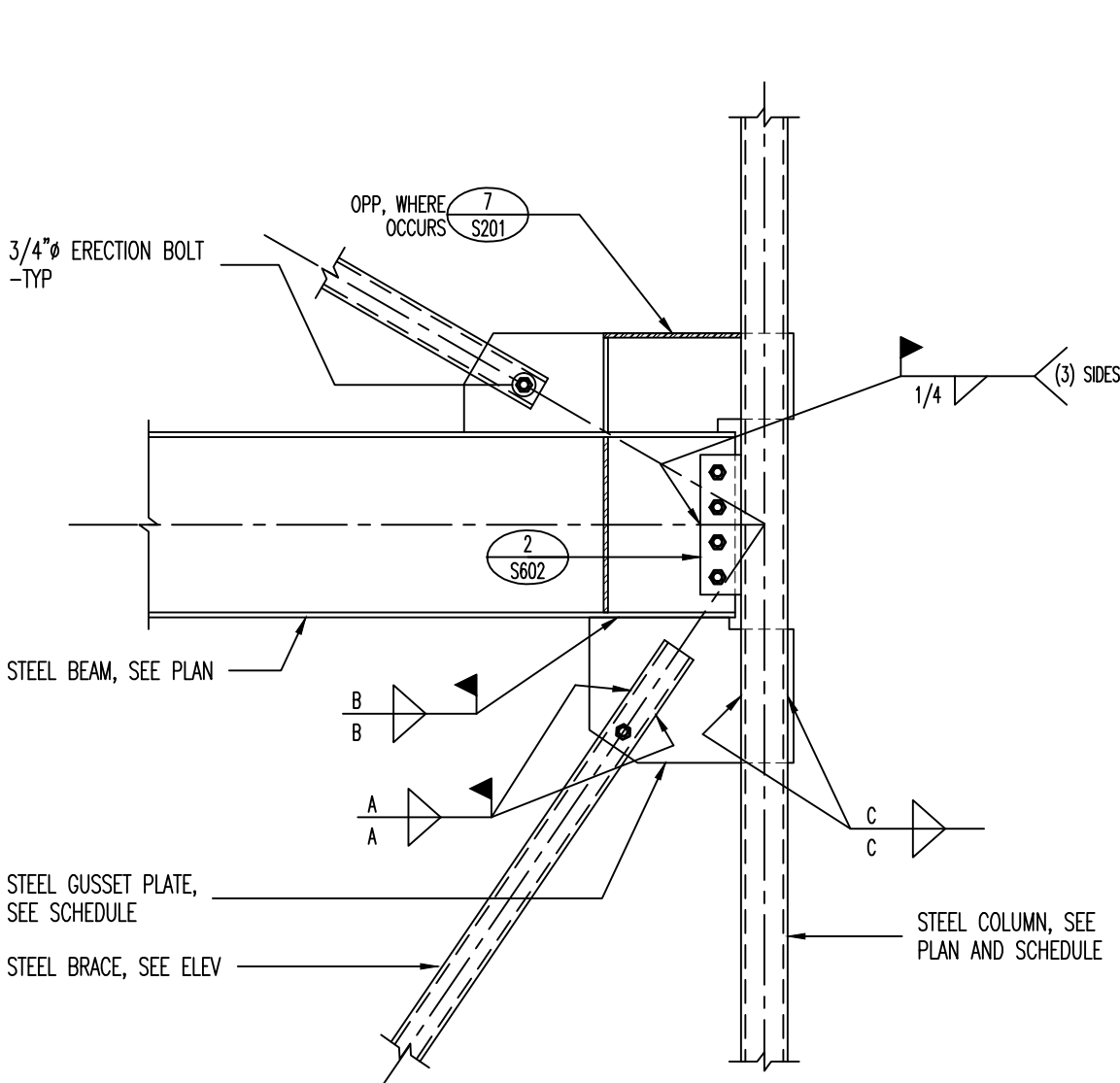
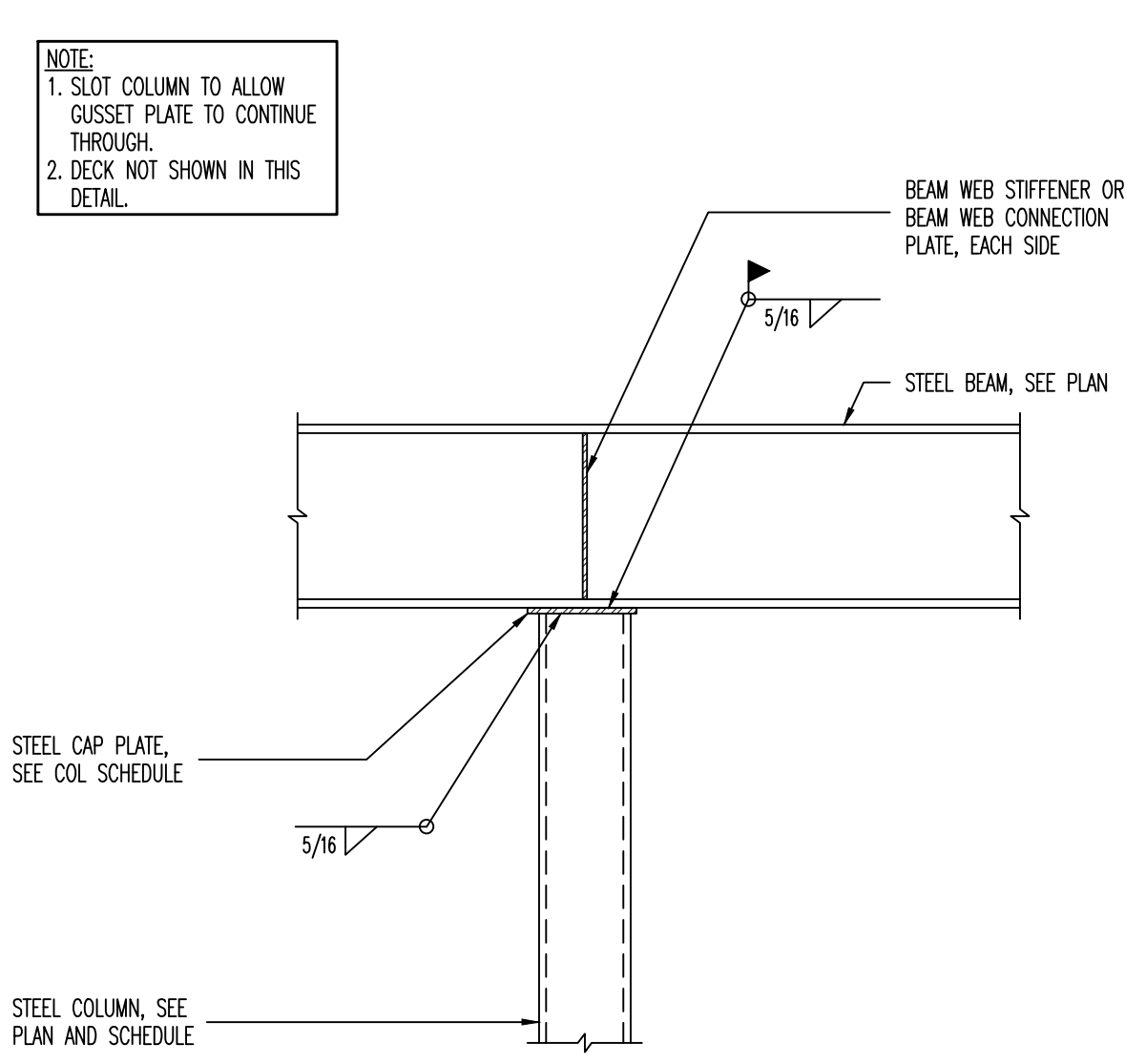
10 BRACE FRAME CONNECTION DETAIL

11 BEAM TO COLUMN CONNECTION DETAIL

12 BEAM TO COLUMN CONNECTION DETAIL [PLAN VIEW]

13 STEEL BEAM TO COLUMN CONNECTION DETAIL

14 BRACED FRAME CONNECTION AT ROOF BEAM



15 BRACED FRAME CONNECTION DETAIL AT ROOF BEAM

16 BRACE FRAME CONNECTION DETAIL

17 COLUMN FRAME CONNECTION AT ROOF BEAM

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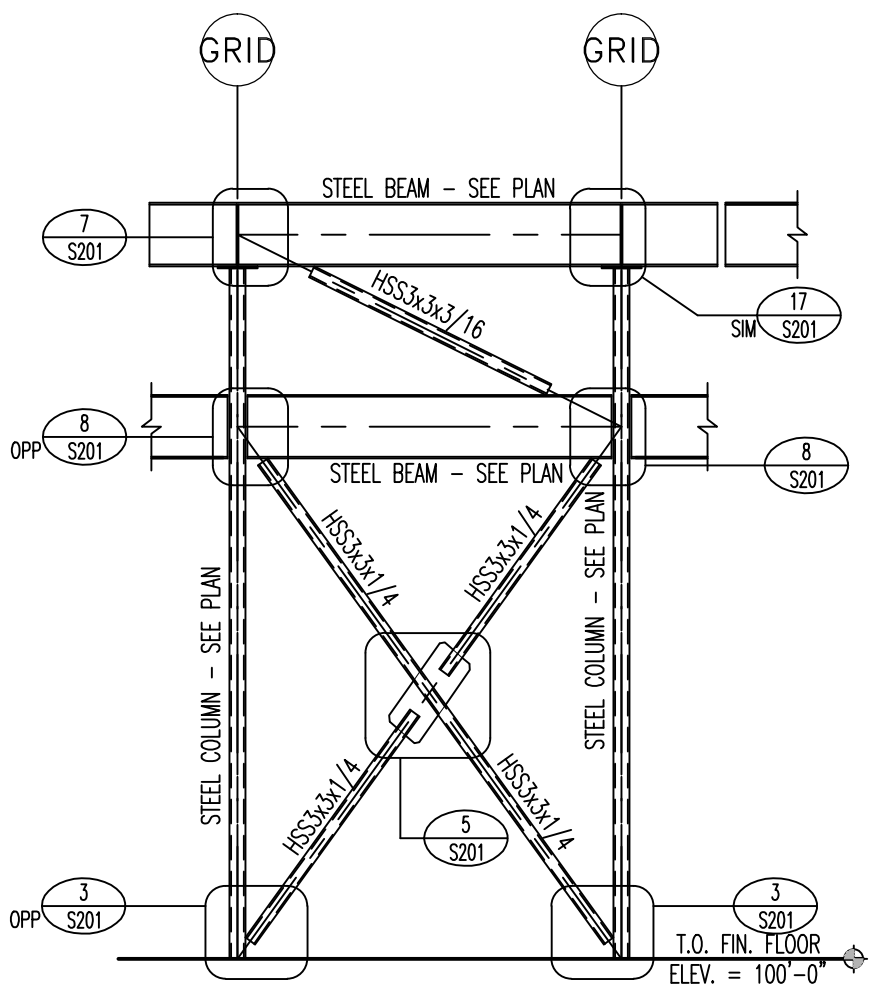
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BRACE  
FRAME  
DETAILS

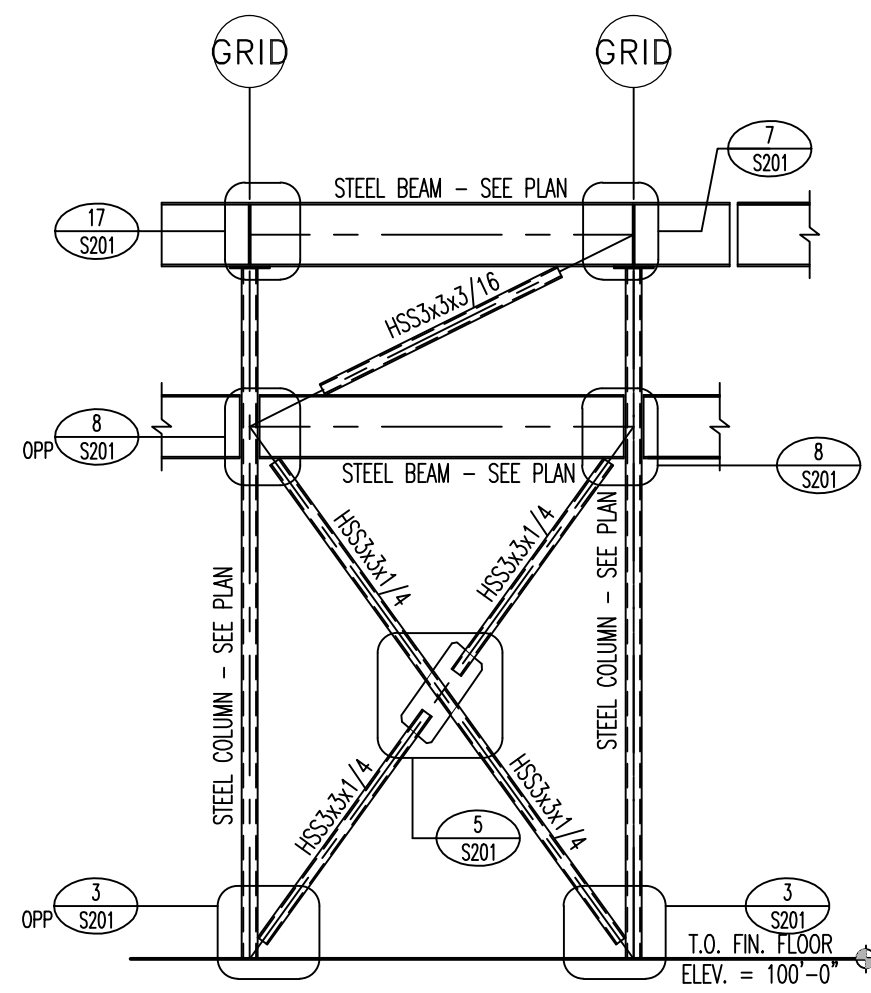
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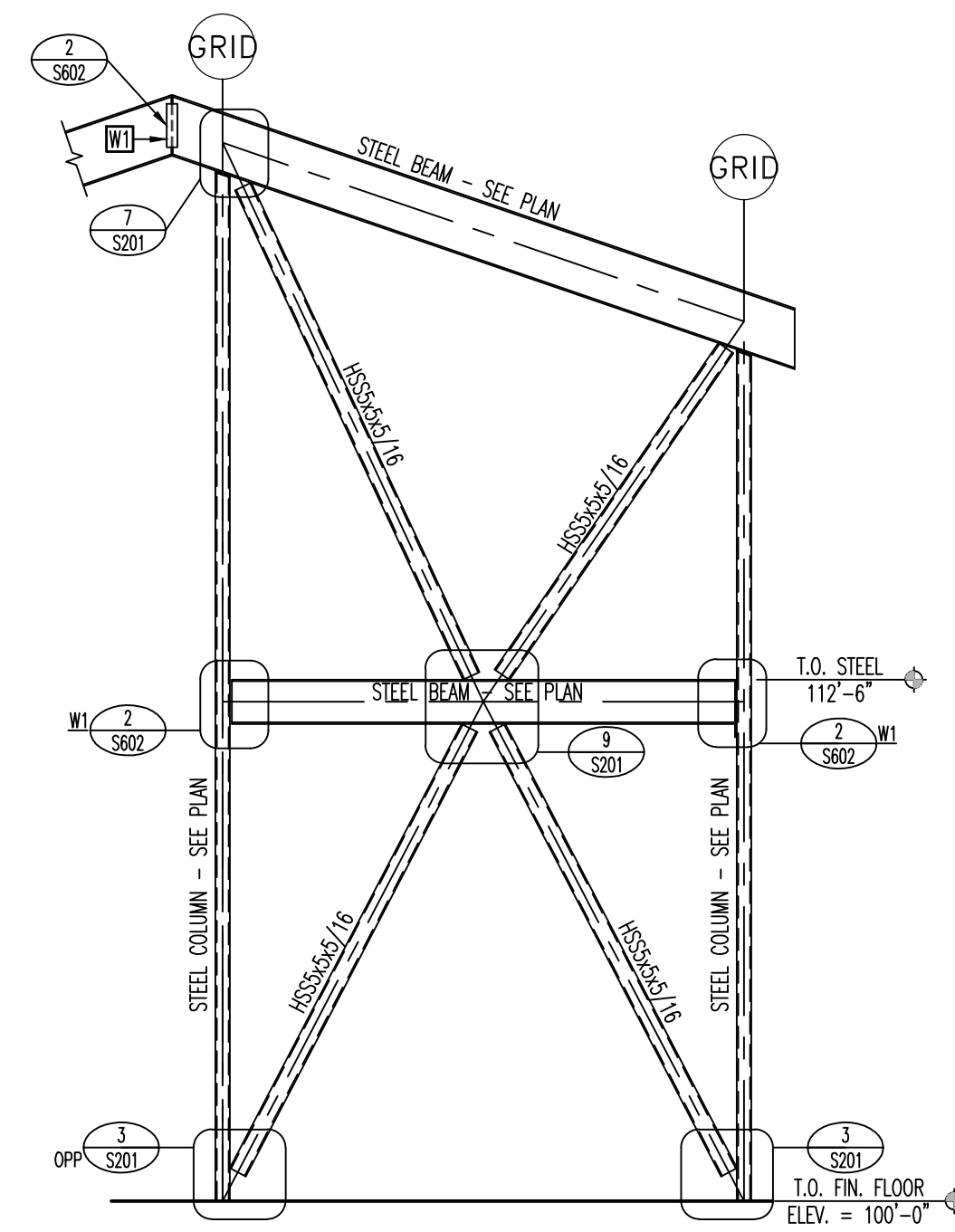




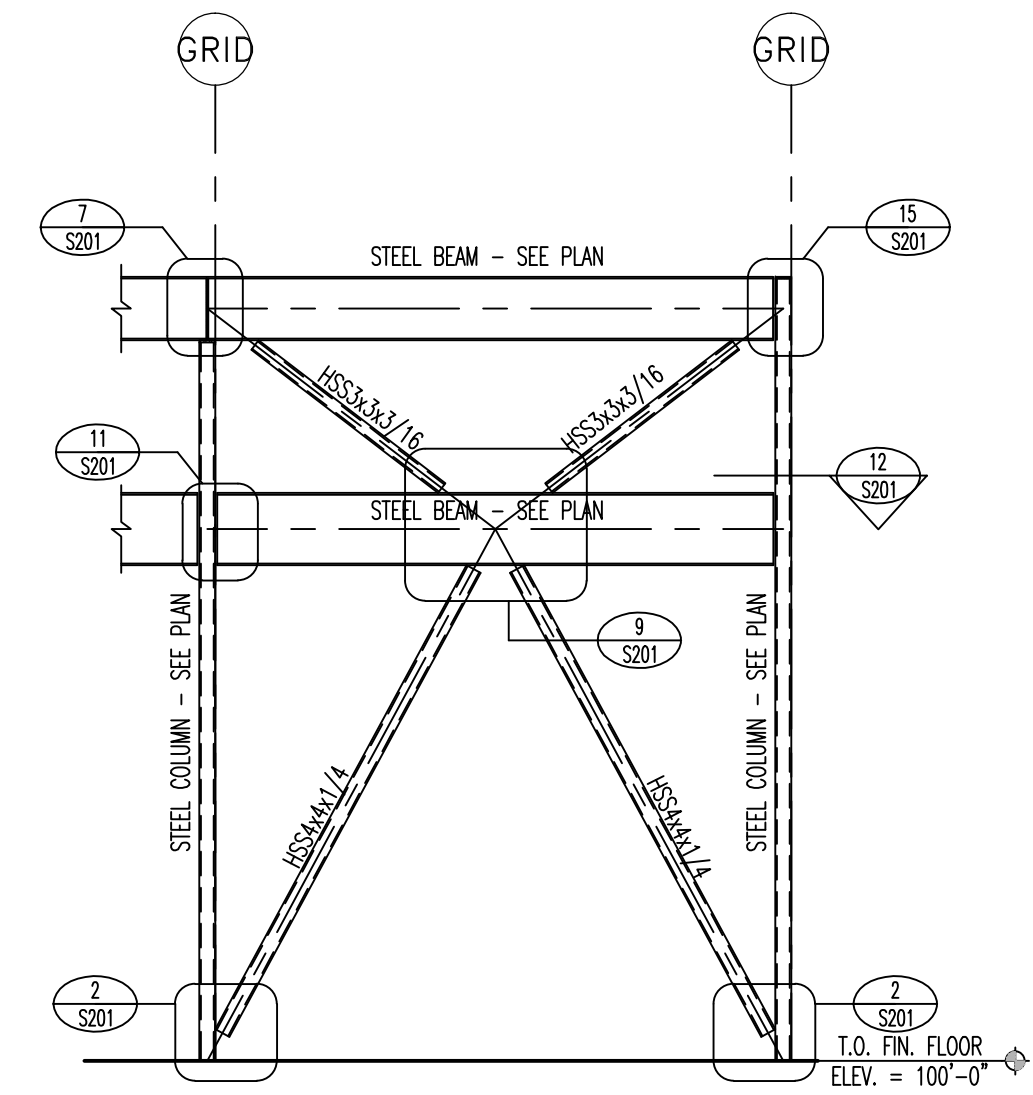
1 BRACED FRAME ELEVATION (BF-1) NO SCALE



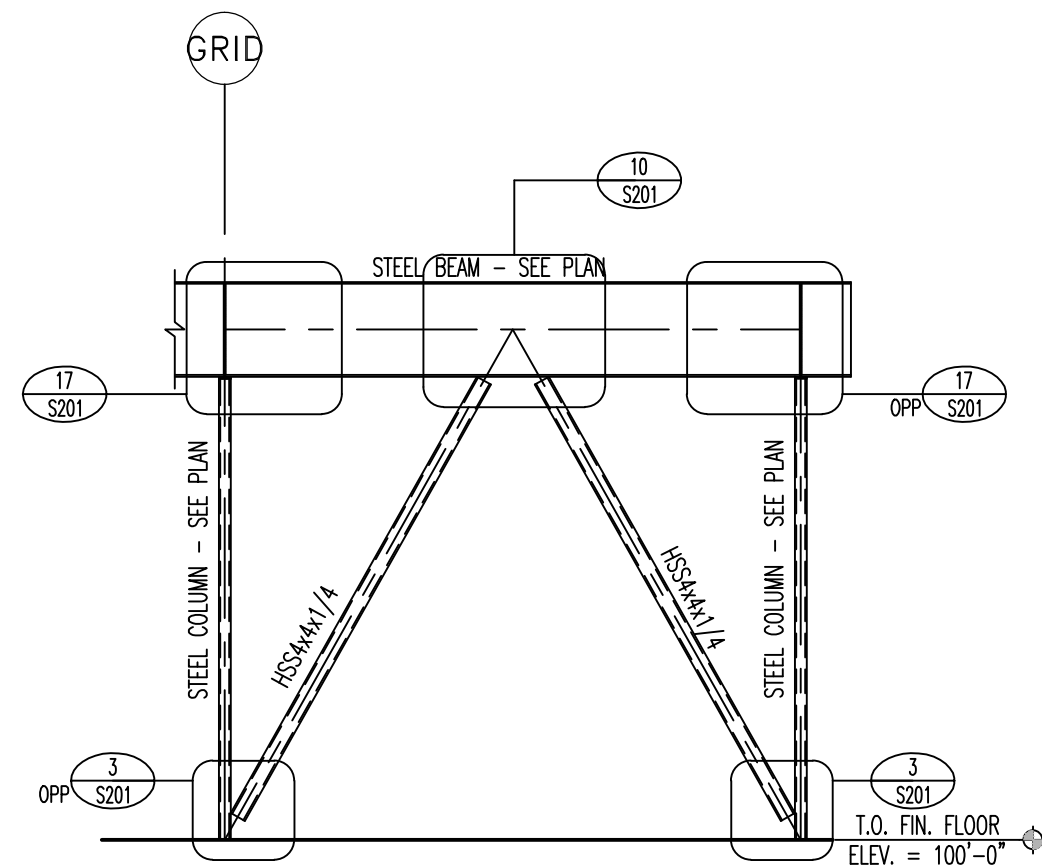
2 BRACED FRAME ELEVATION (BF-2) NO SCALE



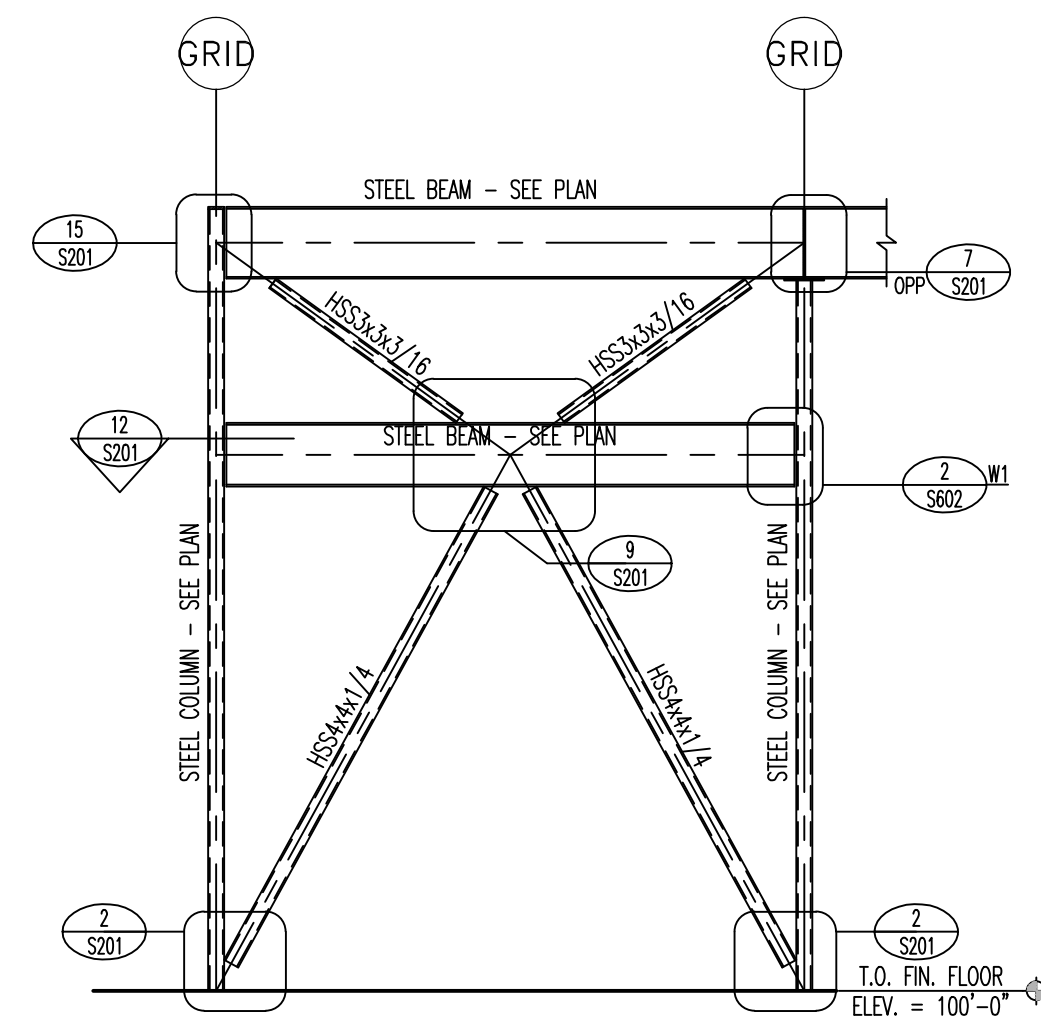
3 BRACED FRAME ELEVATION (BF-3) NO SCALE



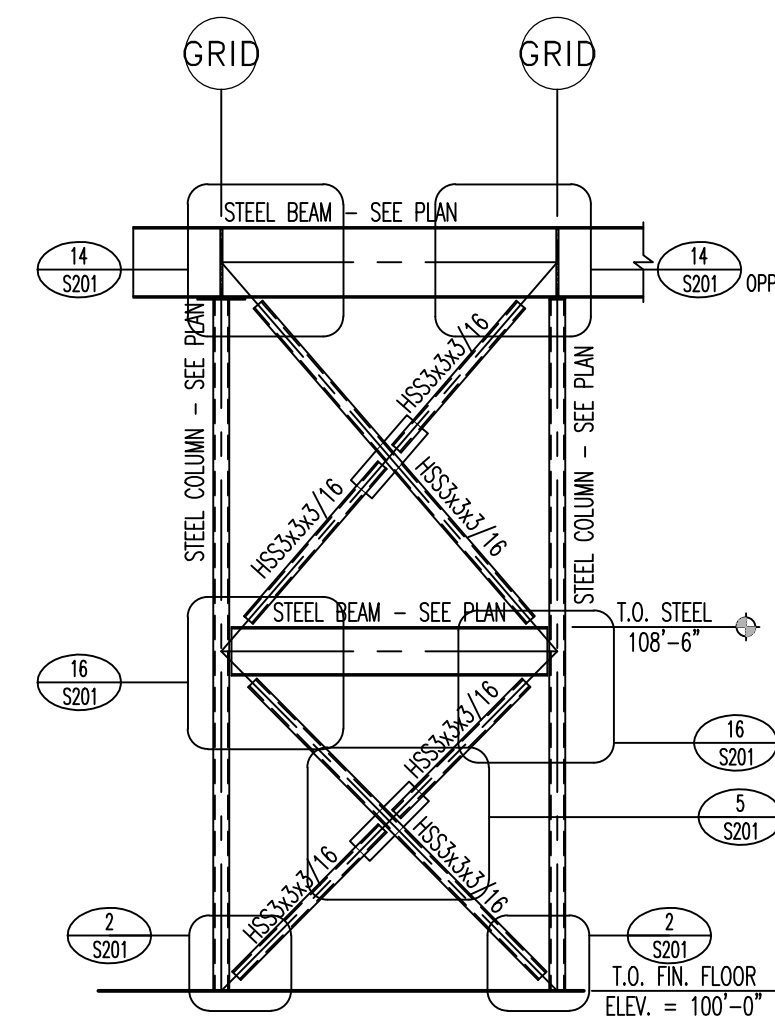
4 BRACED FRAME ELEVATION (BF-4) NO SCALE



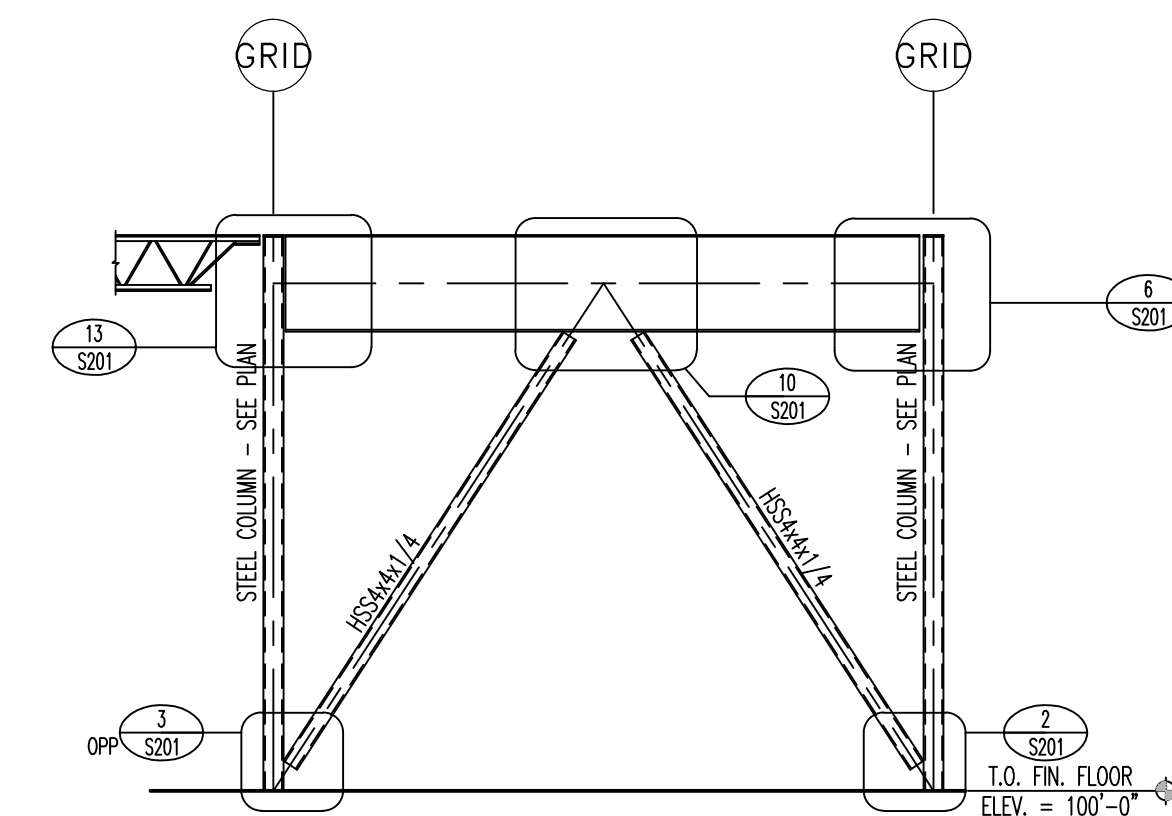
5 BRACED FRAME ELEVATION (BF-5) NO SCALE



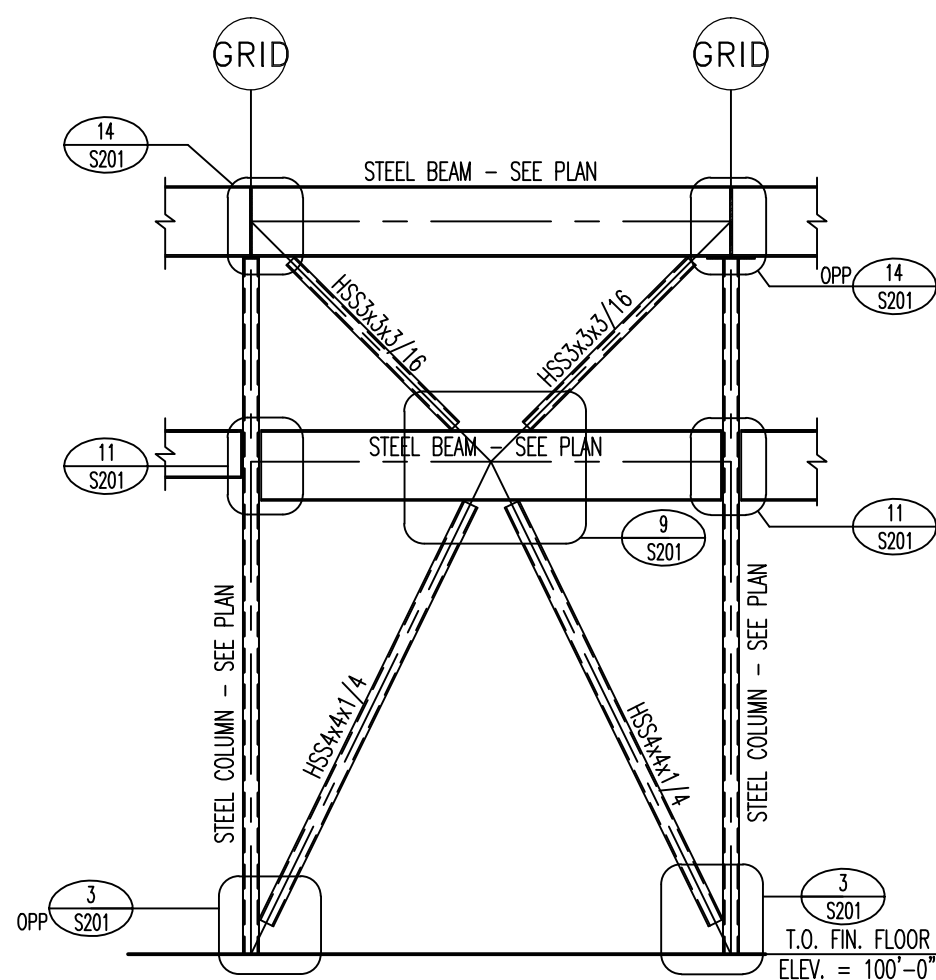
6 BRACED FRAME ELEVATION (BF-6) NO SCALE



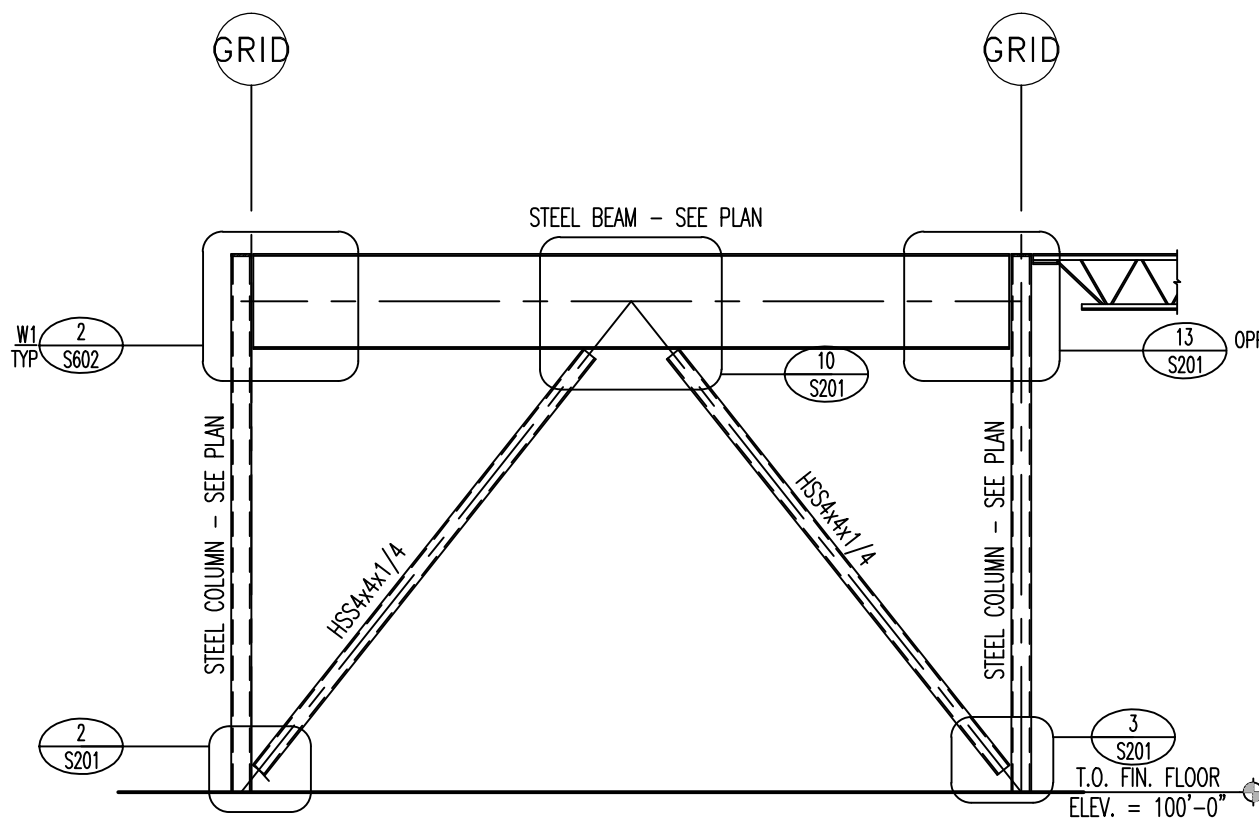
7 BRACED FRAME ELEVATION (BF-7) NO SCALE



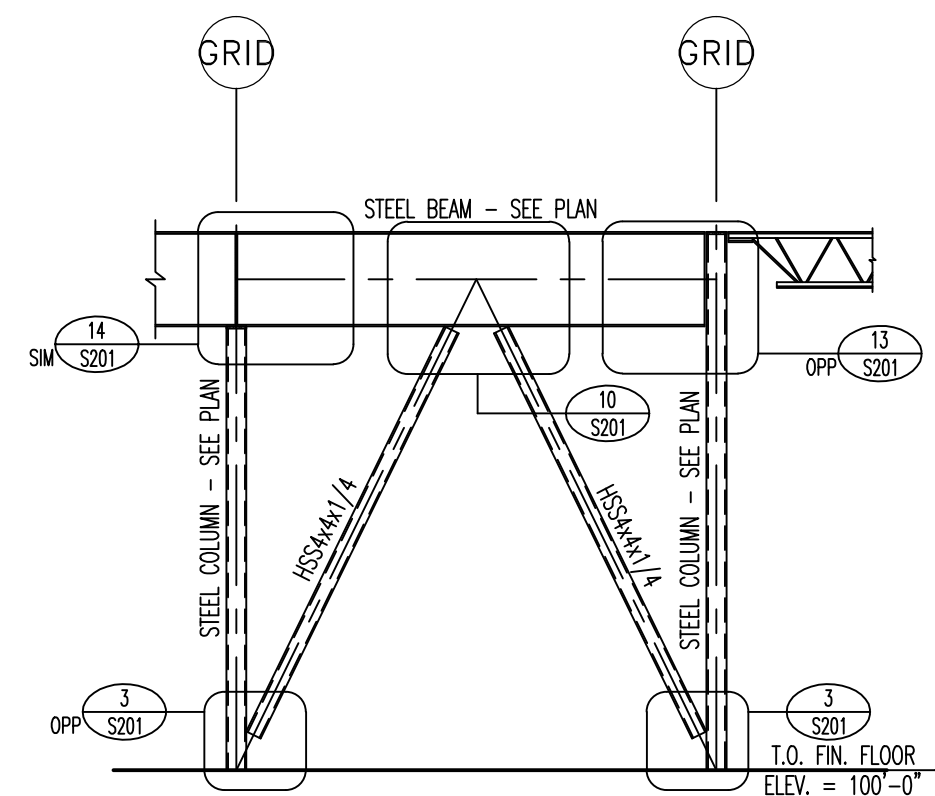
8 BRACED FRAME ELEVATION (BF-8) NO SCALE



9 BRACED FRAME ELEVATION (BF-9) NO SCALE



10 BRACED FRAME ELEVATION (BF-10) NO SCALE



11 BRACED FRAME ELEVATION (BF-11) NO SCALE

NOTE: CALCULATE TOP OF BEAM ELEVATIONS FROM DECK BEARING ELEVATIONS GIVEN ON ARCHITECTURAL DRAWINGS.

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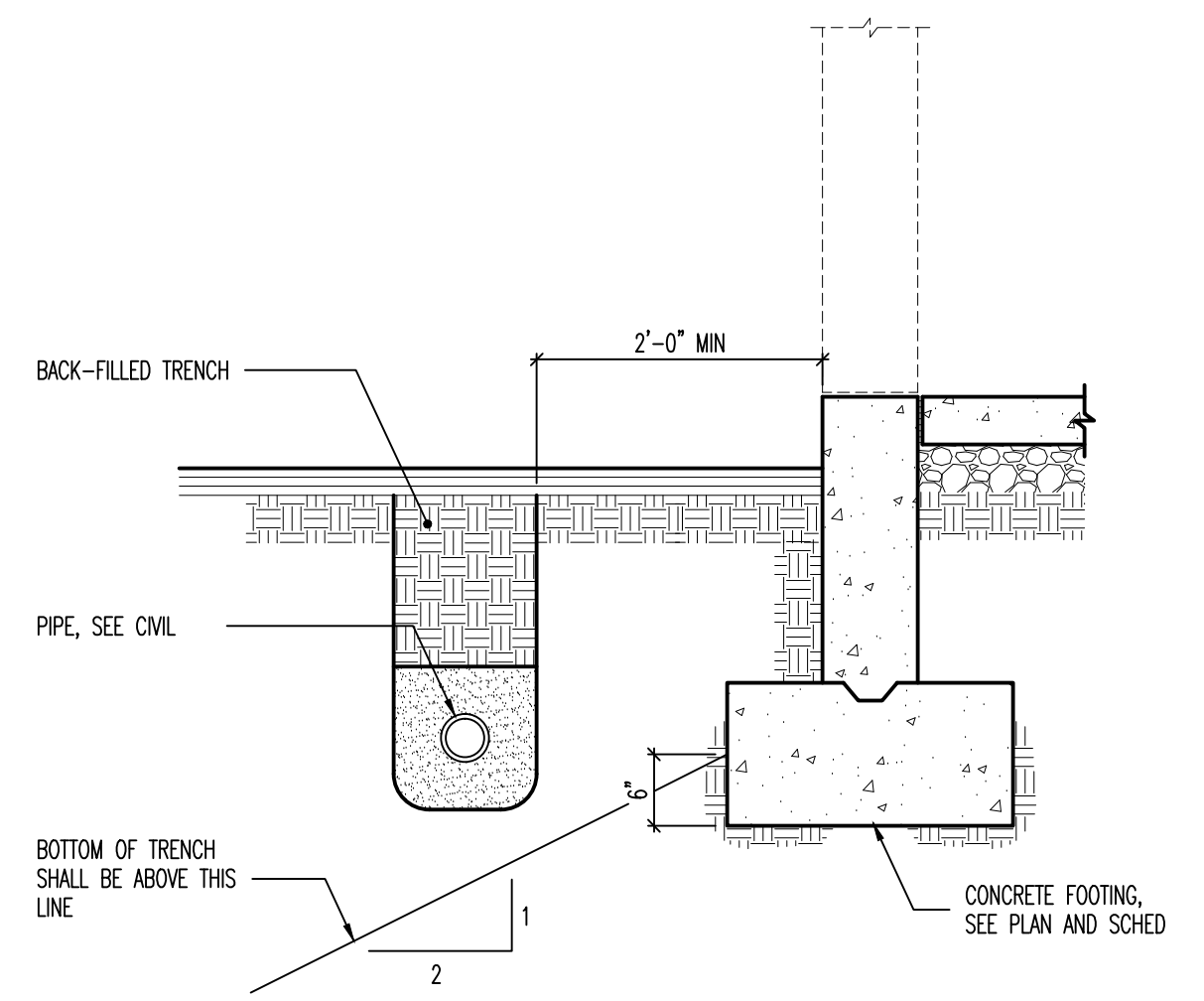
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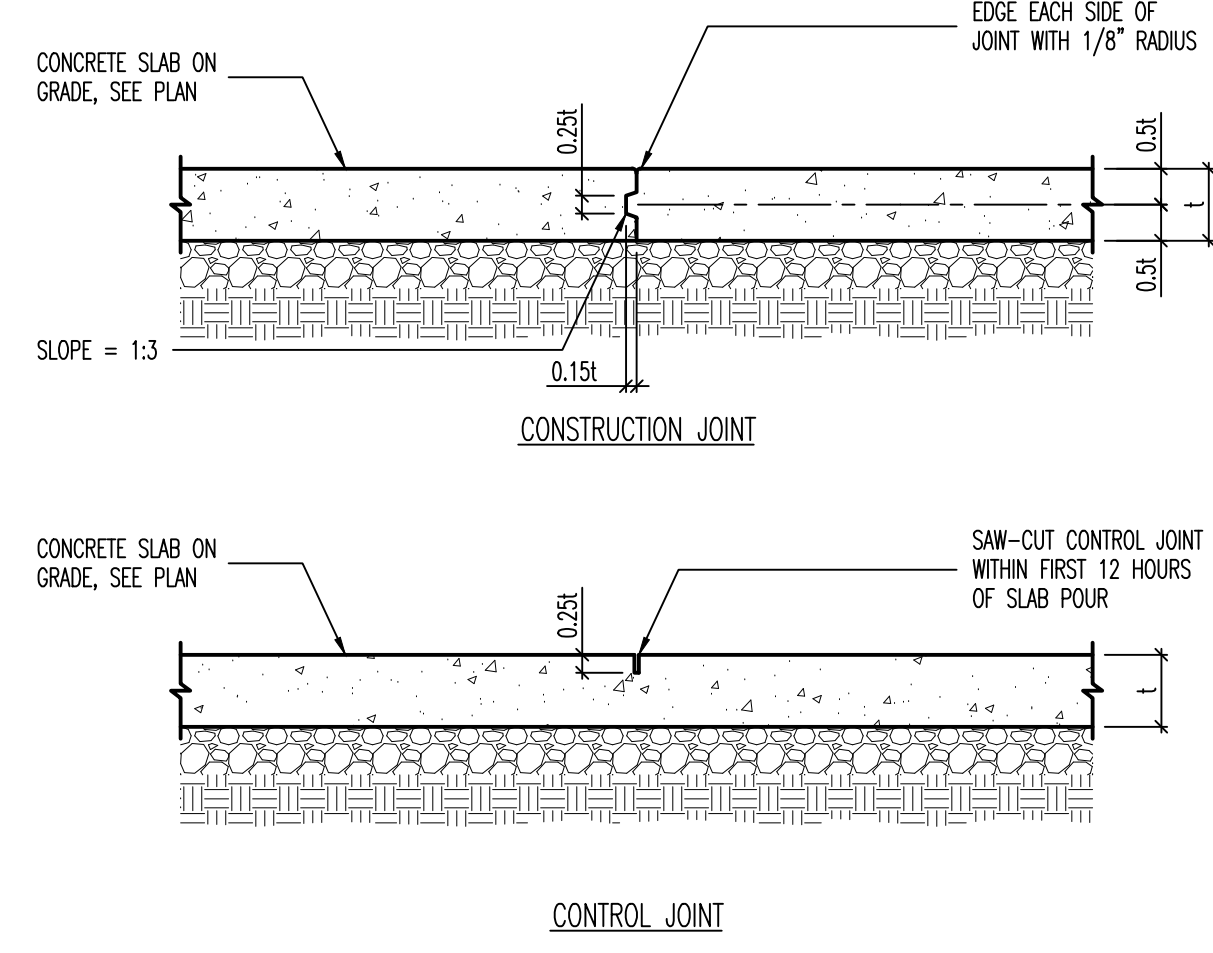
BRACE  
FRAME  
ELEVATIONS

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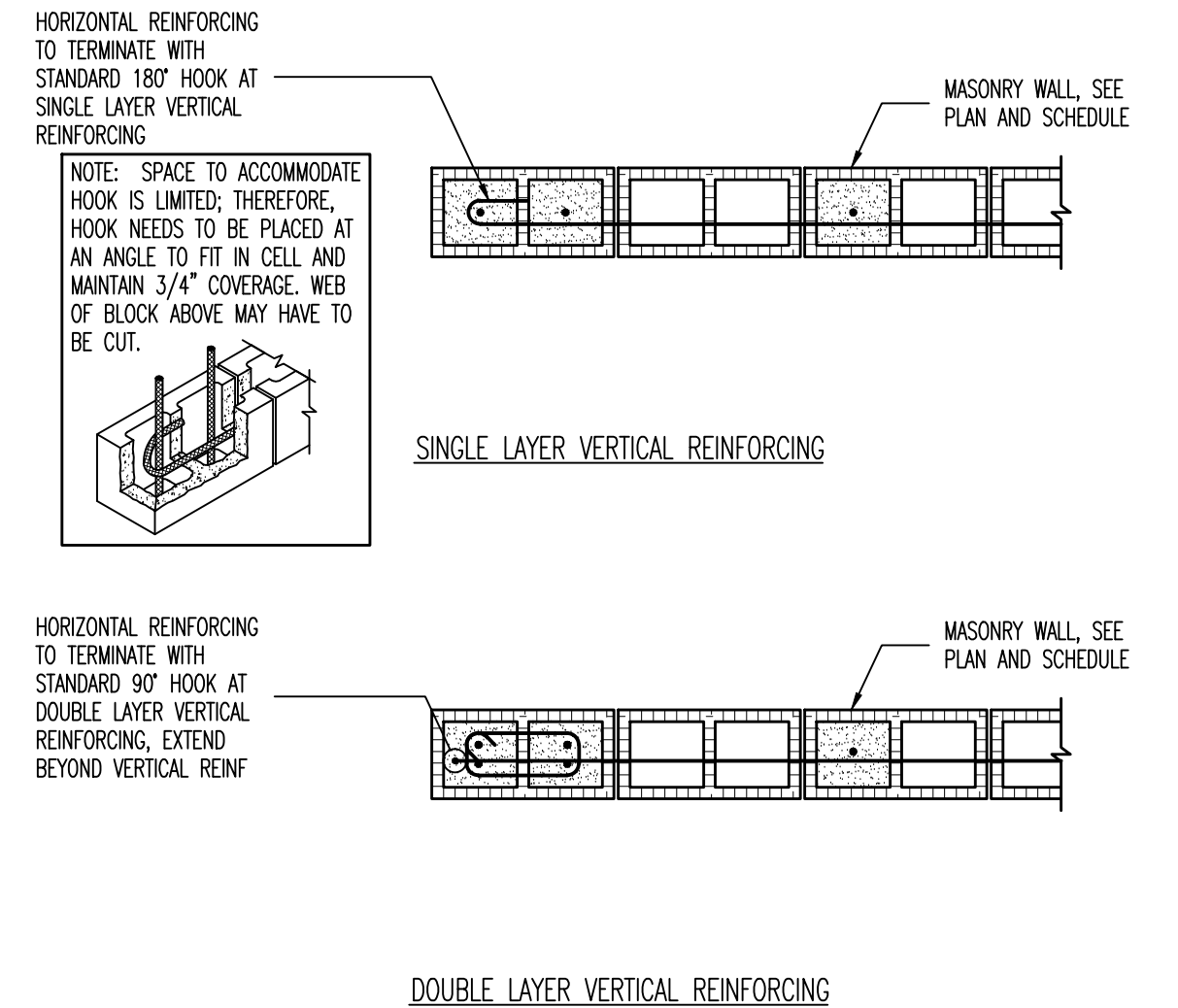




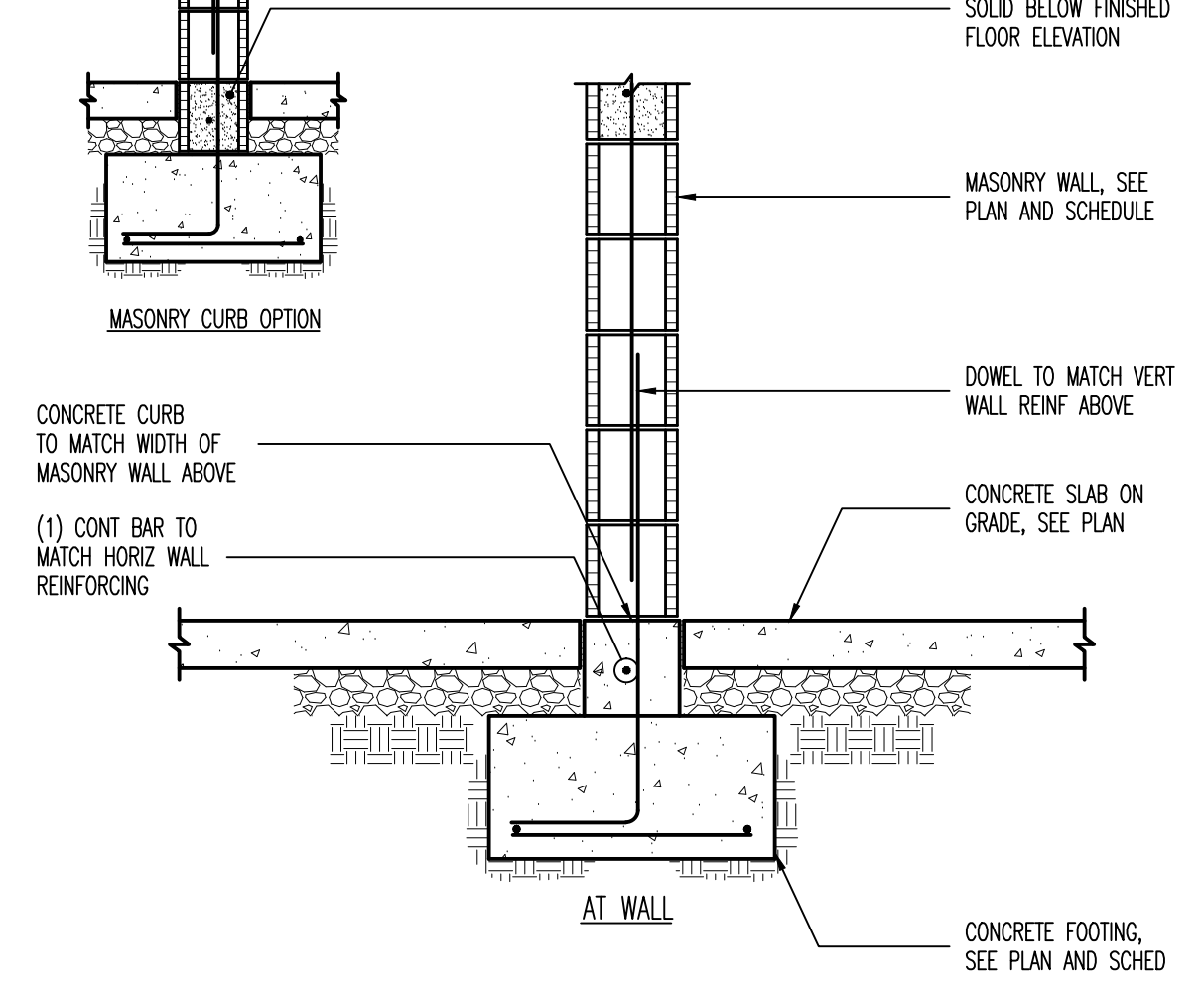
**1** CONDITION AT PIPE PARALLEL TO CONCRETE FOOTING  
NO SCALE



**2** CONDITIONS AT PIPE PERPENDICULAR TO FOOTING  
NO SCALE



**3** ENGINEERED STRUCTURAL FILL DETAIL  
NO SCALE



**4** TYPICAL CORNER WALL REINFORCING  
[PLAN VIEW]  
NO SCALE

**5** TYPICAL SLAB ON GRADE JOINT DETAILS  
NO SCALE

**6** JOINT DETAILS AT SLAB DEPRESSIONS  
NO SCALE

**7** LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING  
[PLAN VIEW]  
NO SCALE

**8** HOUSEKEEPING PAD DETAIL  
NO SCALE

**9** MASONRY CONTROL JOINT DETAIL AT 8" OR 10" MASONRY WALLS  
NO SCALE

**10** TERMINATION OF HORIZONTAL REINFORCING IN 8" OR 10" MASONRY WALL [PLAN VIEW]  
NO SCALE

**11** REINFORCING AT UNSCHEDULED MISCELLANEOUS OPENINGS OR RECESSES IN MASONRY WALLS  
NO SCALE

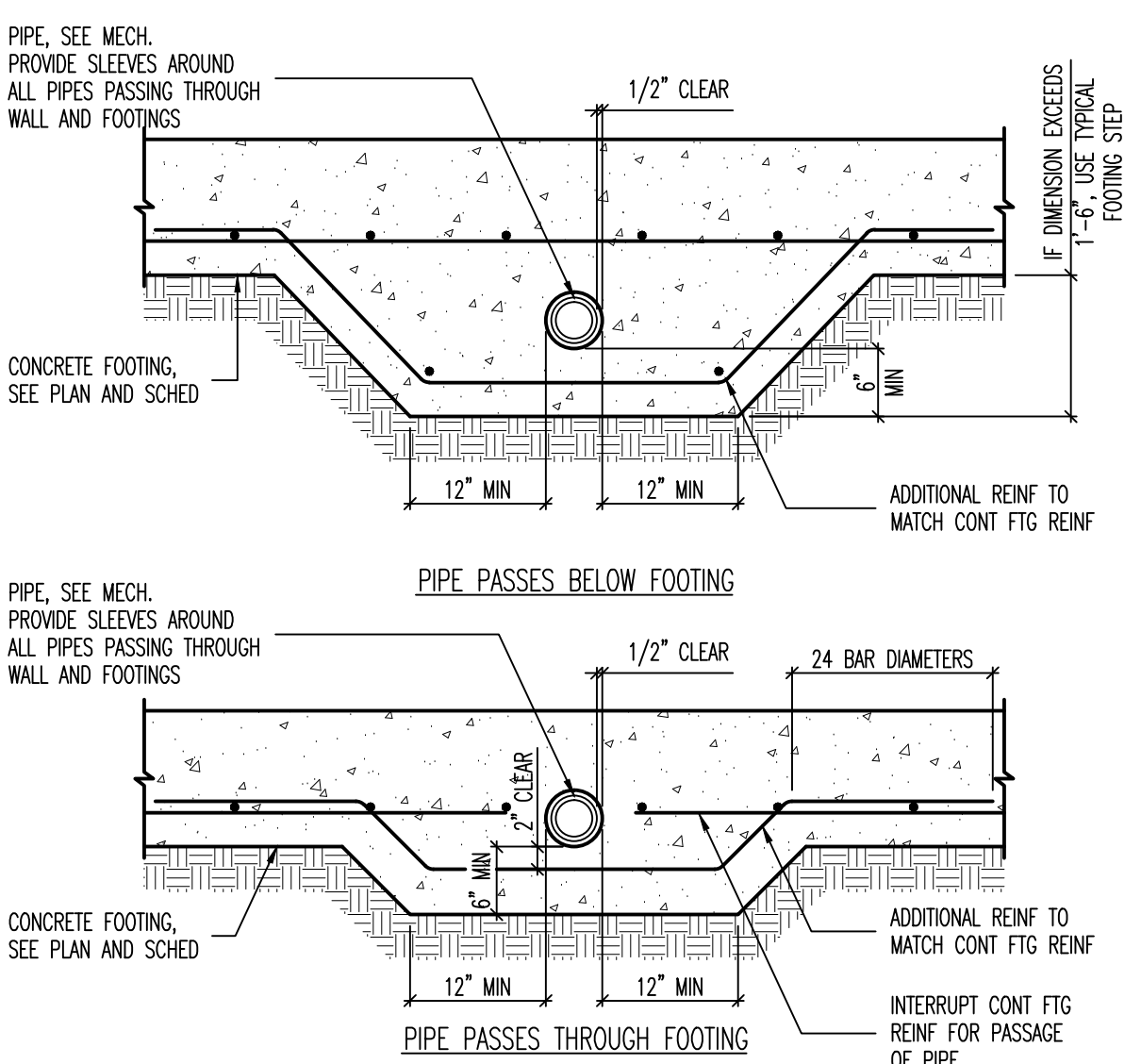
**12** TYPICAL EXTERIOR WALL AT CONCRETE FOUNDATION WALL  
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**13** TYPICAL STEEL COLUMN TO PIER AT EXTERIOR FOUNDATION WALL  
NO SCALE

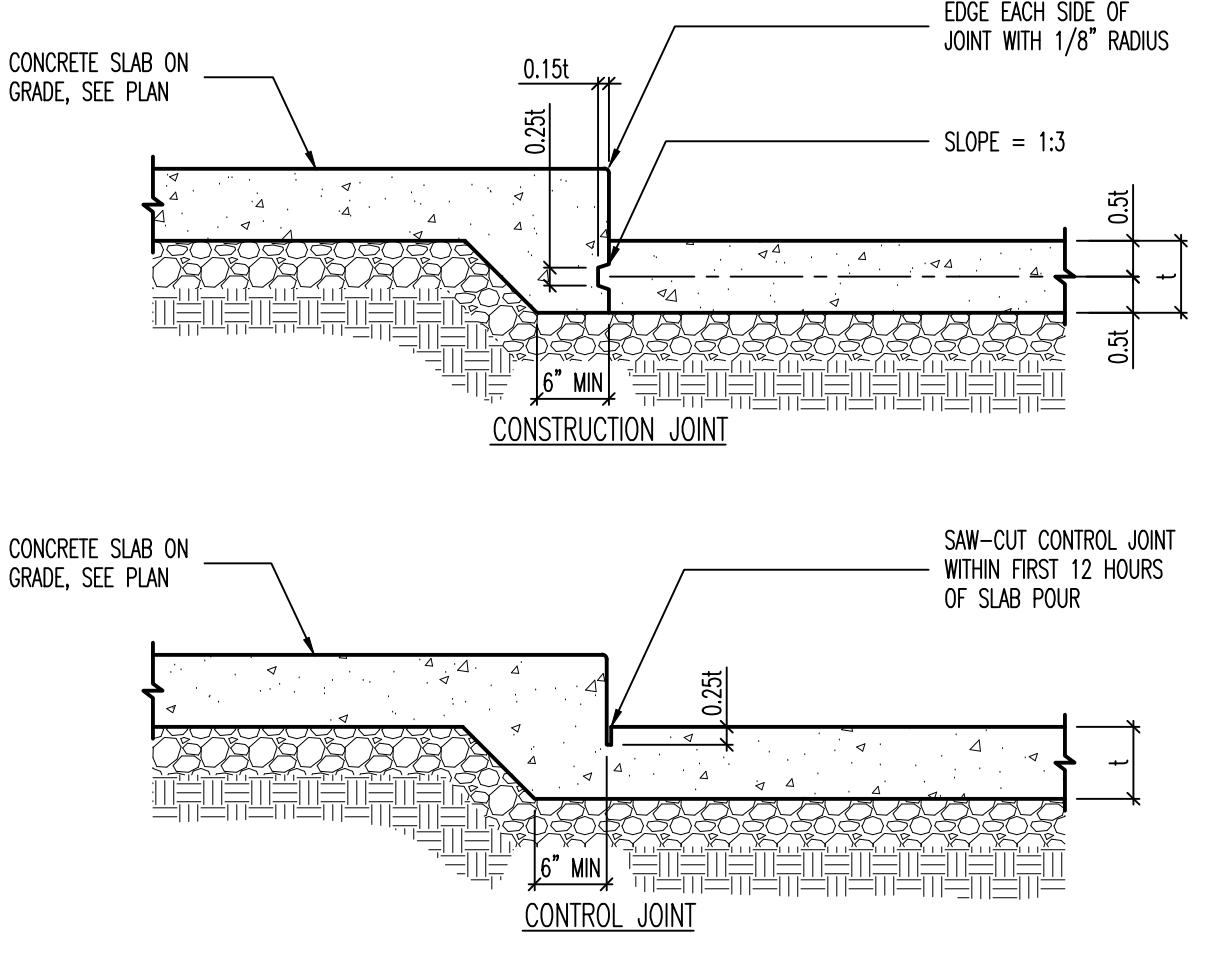
**14** TYPICAL 8" OR 10" INTERIOR MASONRY WALL ON CONCRETE CURB  
NO SCALE

**15** CONCRETE FOUNDATION WALL DETAIL  
NO SCALE

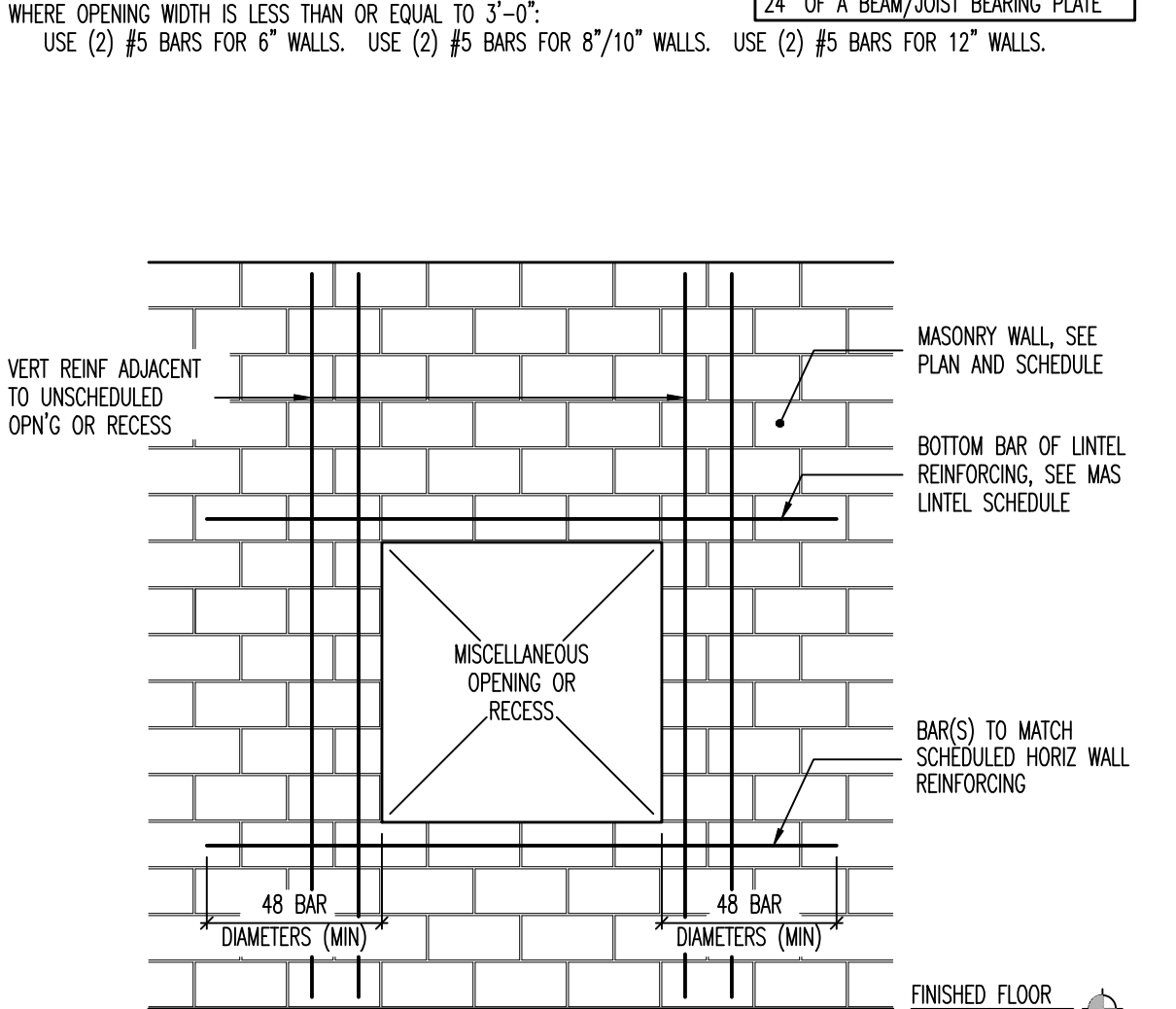
**16** STEEL COLUMN BEARING DETAIL AT 8" OR 10" MASONRY WALL  
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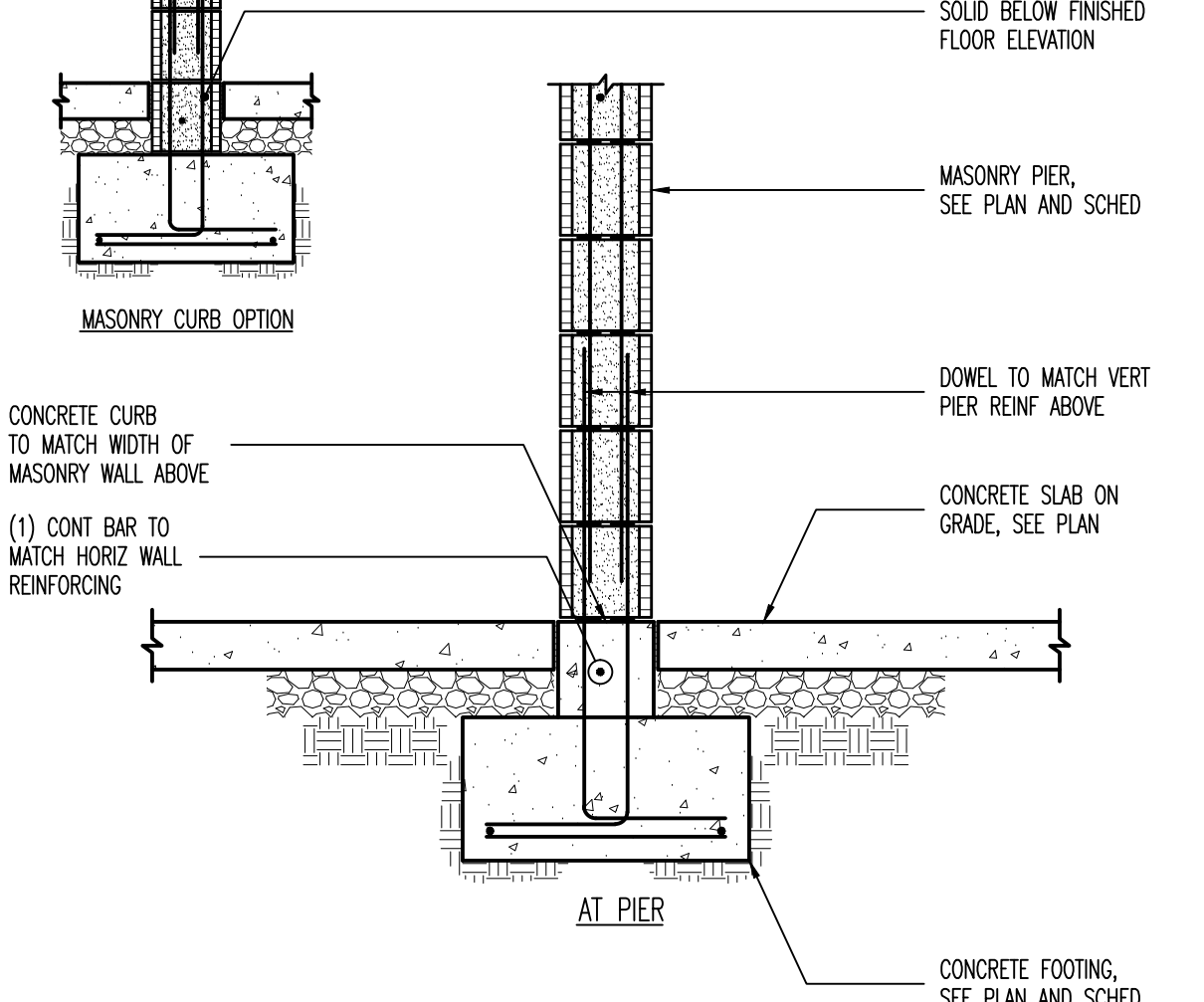
**5** TYPICAL SLAB ON GRADE JOINT DETAILS  
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**6** JOINT DETAILS AT SLAB DEPRESSIONS  
NO SCALE



**7** LOCATIONS REQUIRING ADDITIONAL SLAB REINFORCING  
[PLAN VIEW]  
NO SCALE



**8** HOUSEKEEPING PAD DETAIL  
NO SCALE

**9** MASONRY CONTROL JOINT DETAIL AT 8" OR 10" MASONRY WALLS  
NO SCALE

**10** TERMINATION OF HORIZONTAL REINFORCING IN 8" OR 10" MASONRY WALL [PLAN VIEW]  
NO SCALE

**11** REINFORCING AT UNSCHEDULED MISCELLANEOUS OPENINGS OR RECESSES IN MASONRY WALLS  
NO SCALE

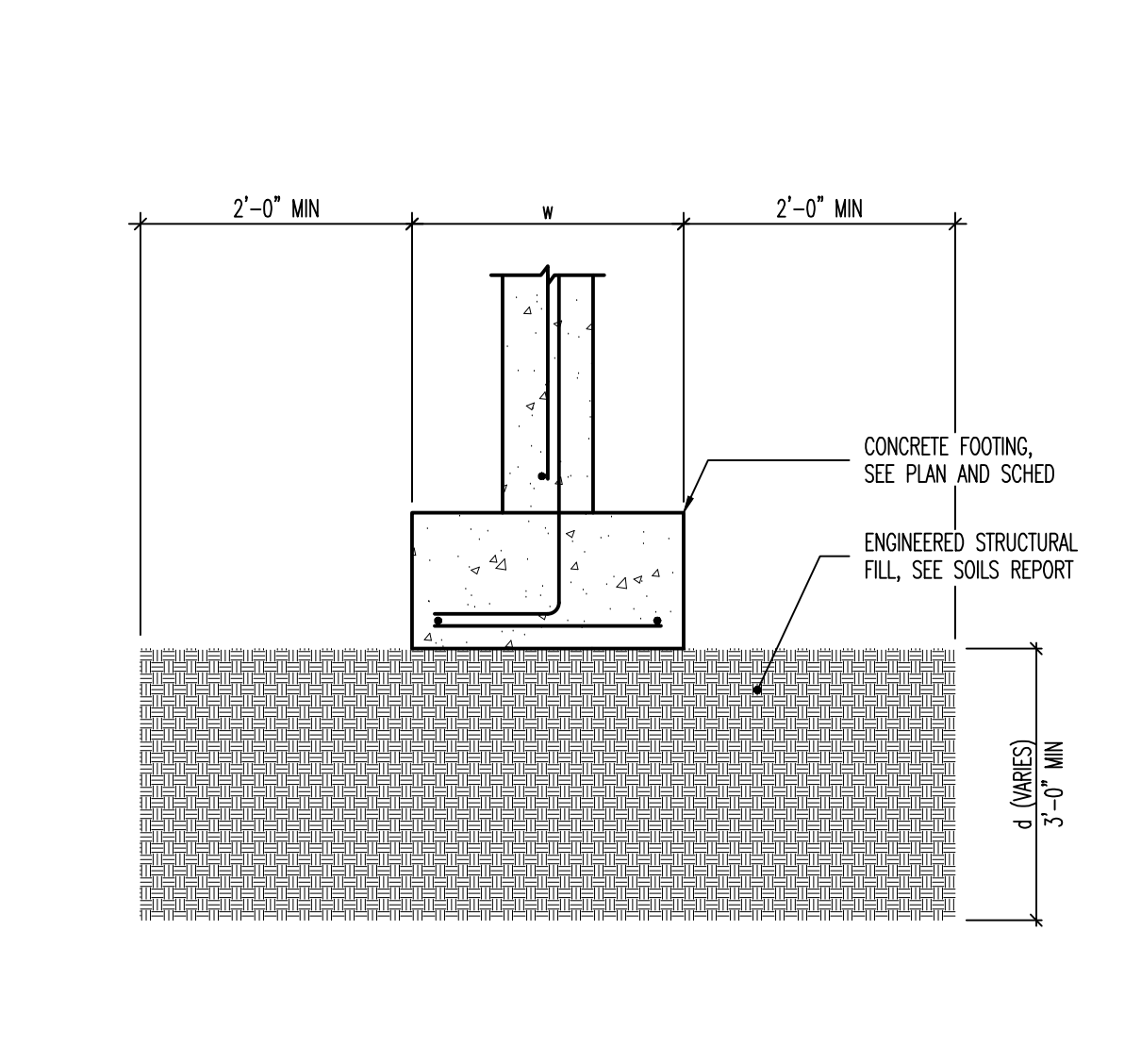
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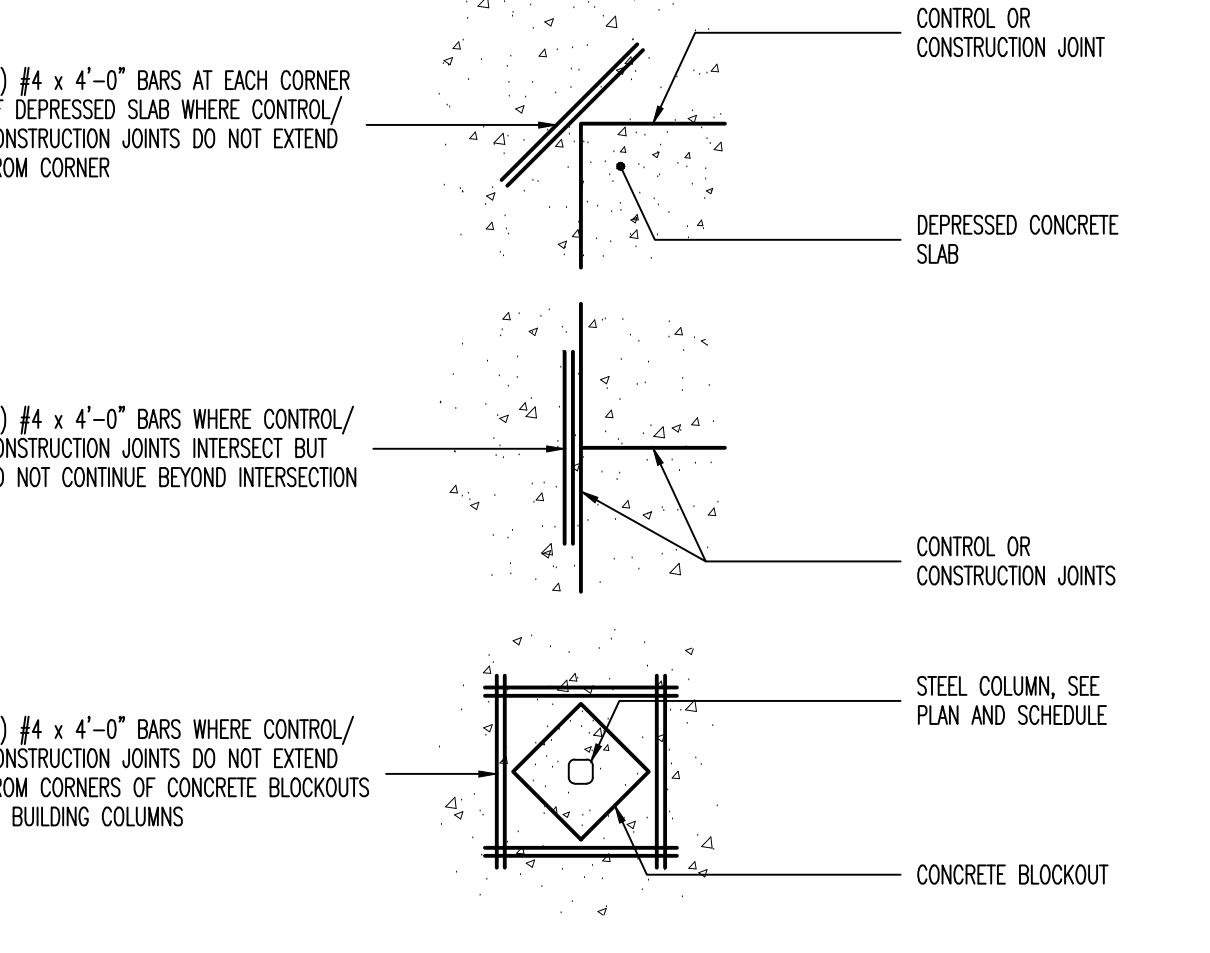
**14** TYPICAL 8" OR 10" INTERIOR MASONRY WALL ON CONCRETE CURB  
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**15** CONCRETE FOUNDATION WALL DETAIL  
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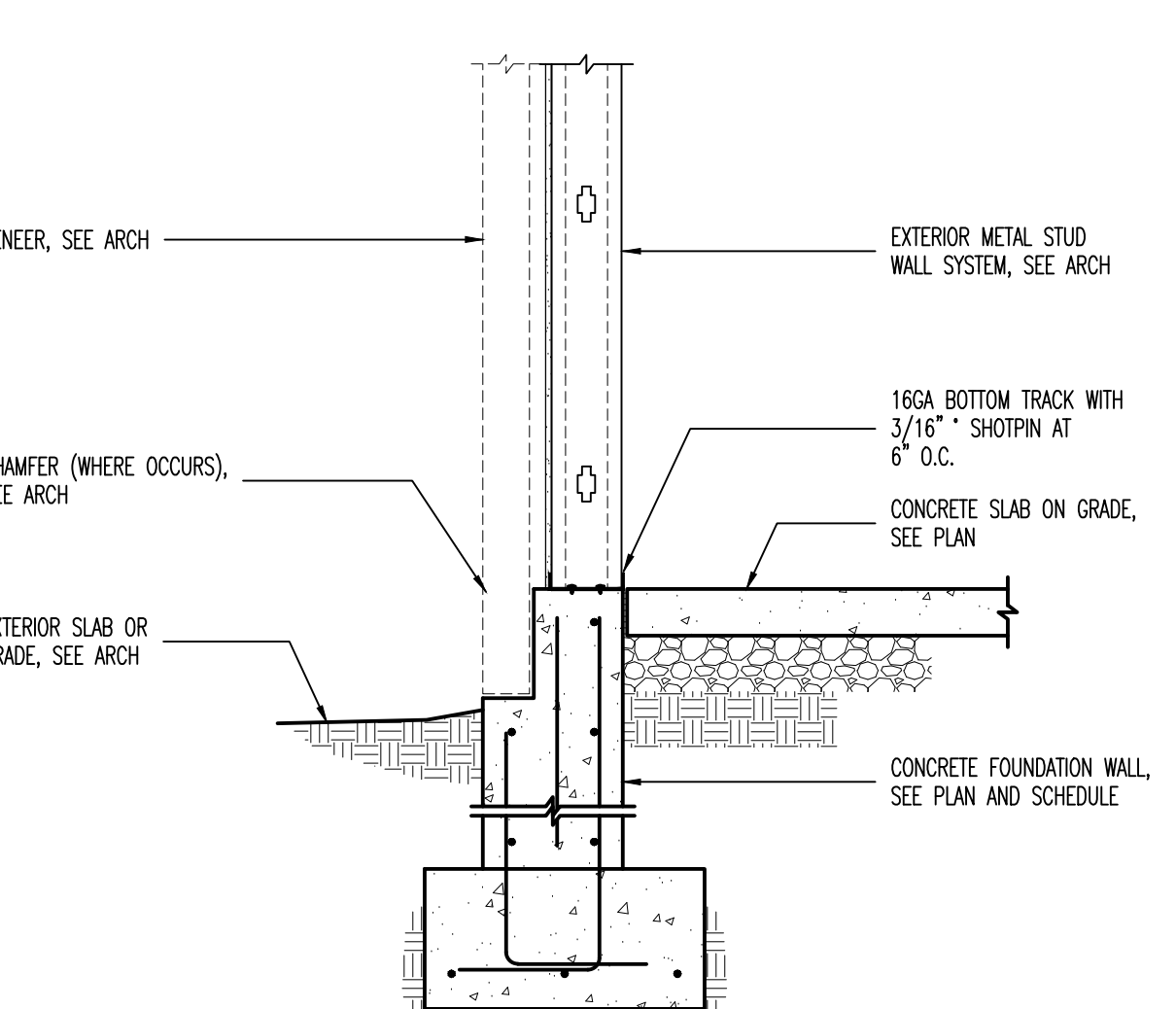
**16** STEEL COLUMN BEARING DETAIL AT 8" OR 10" MASONRY WALL  
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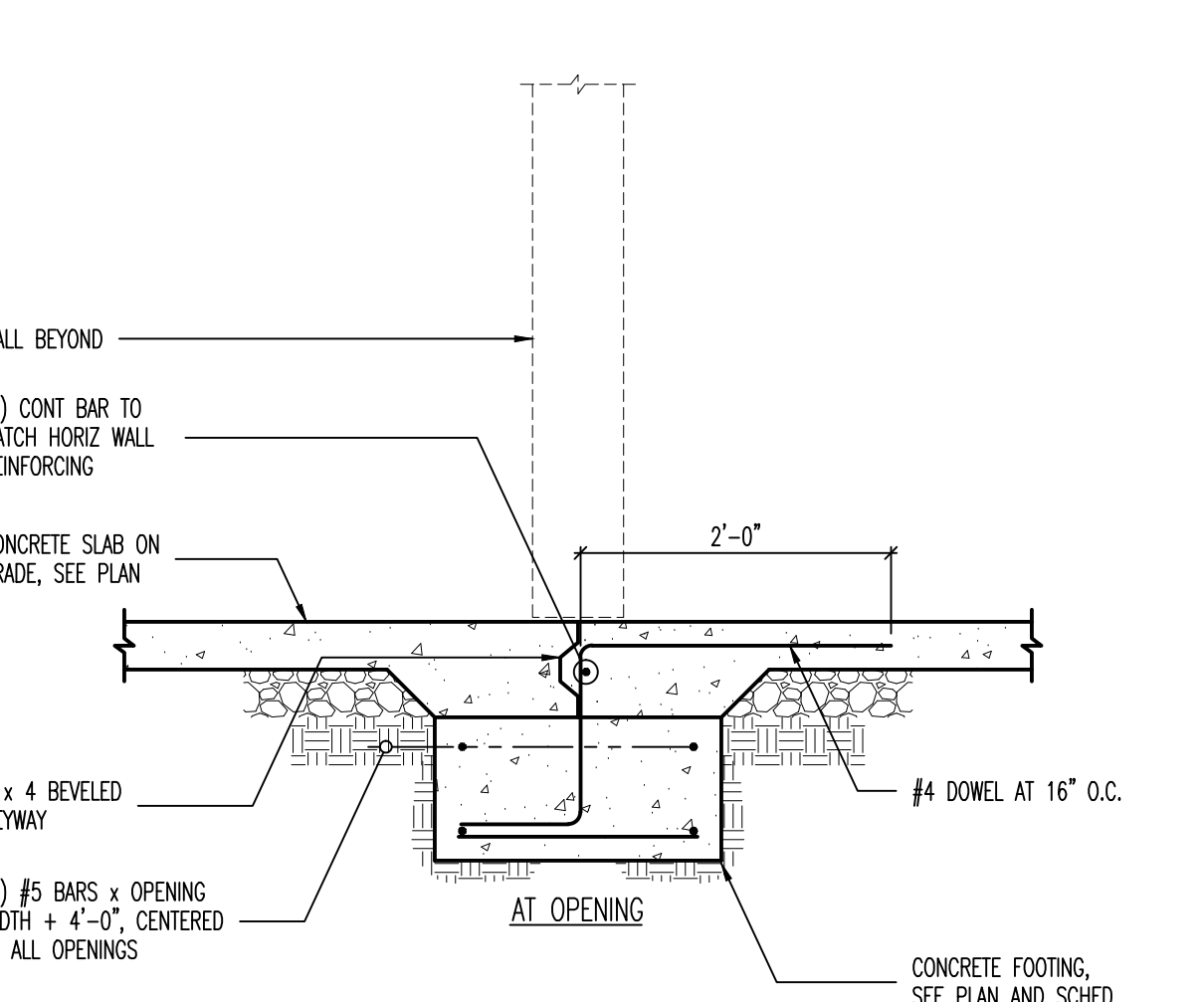
**9** MASONRY CONTROL JOINT DETAIL AT 8" OR 10" MASONRY WALLS  
NO SCALE



**10** TERMINATION OF HORIZONTAL REINFORCING IN 8" OR 10" MASONRY WALL [PLAN VIEW]  
NO SCALE



**11** REINFORCING AT UNSCHEDULED MISCELLANEOUS OPENINGS OR RECESSES IN MASONRY WALLS  
NO SCALE



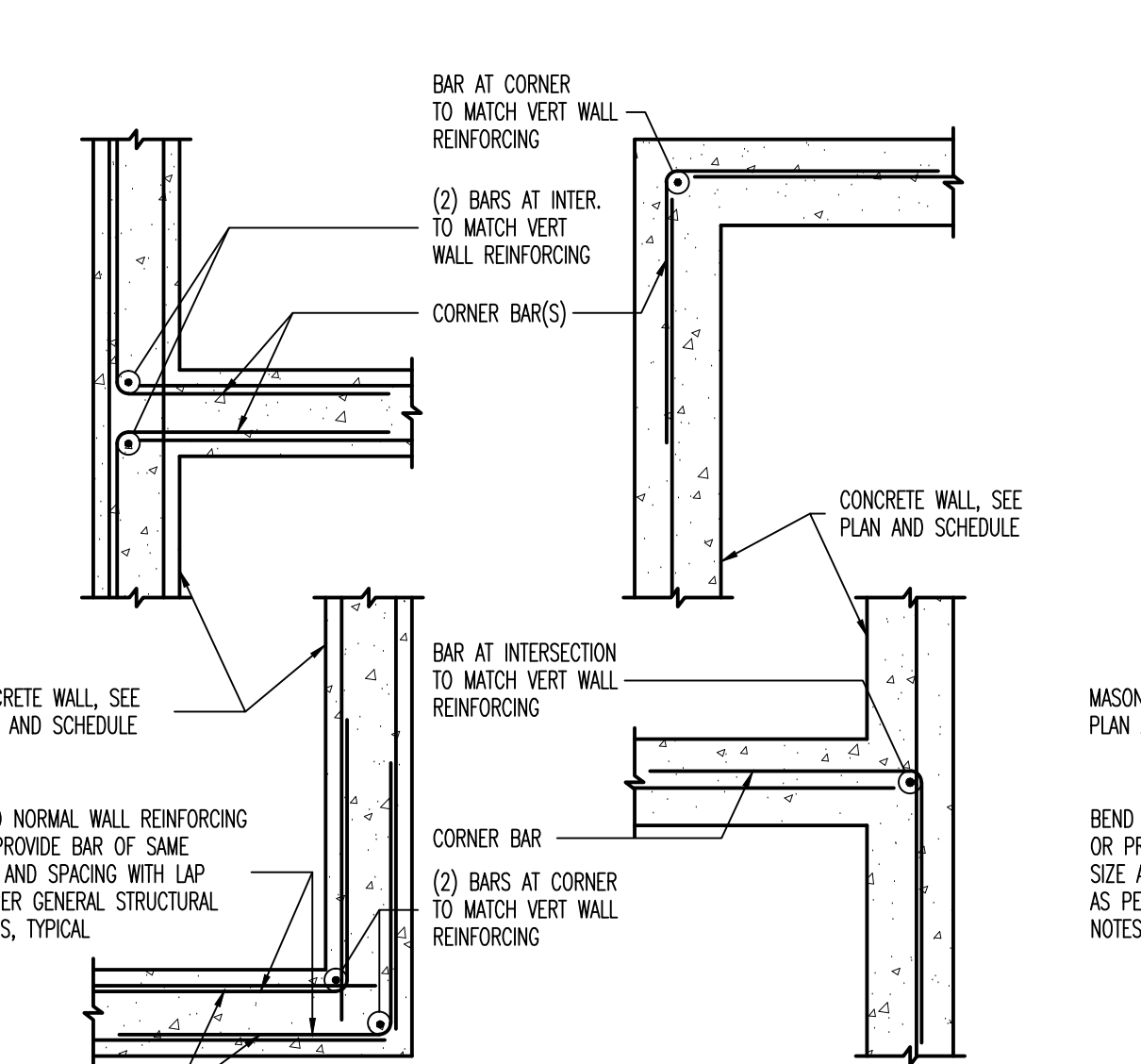
**12** TYPICAL EXTERIOR WALL AT CONCRETE FOUNDATION WALL  
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**13** TYPICAL STEEL COLUMN TO PIER AT EXTERIOR FOUNDATION WALL  
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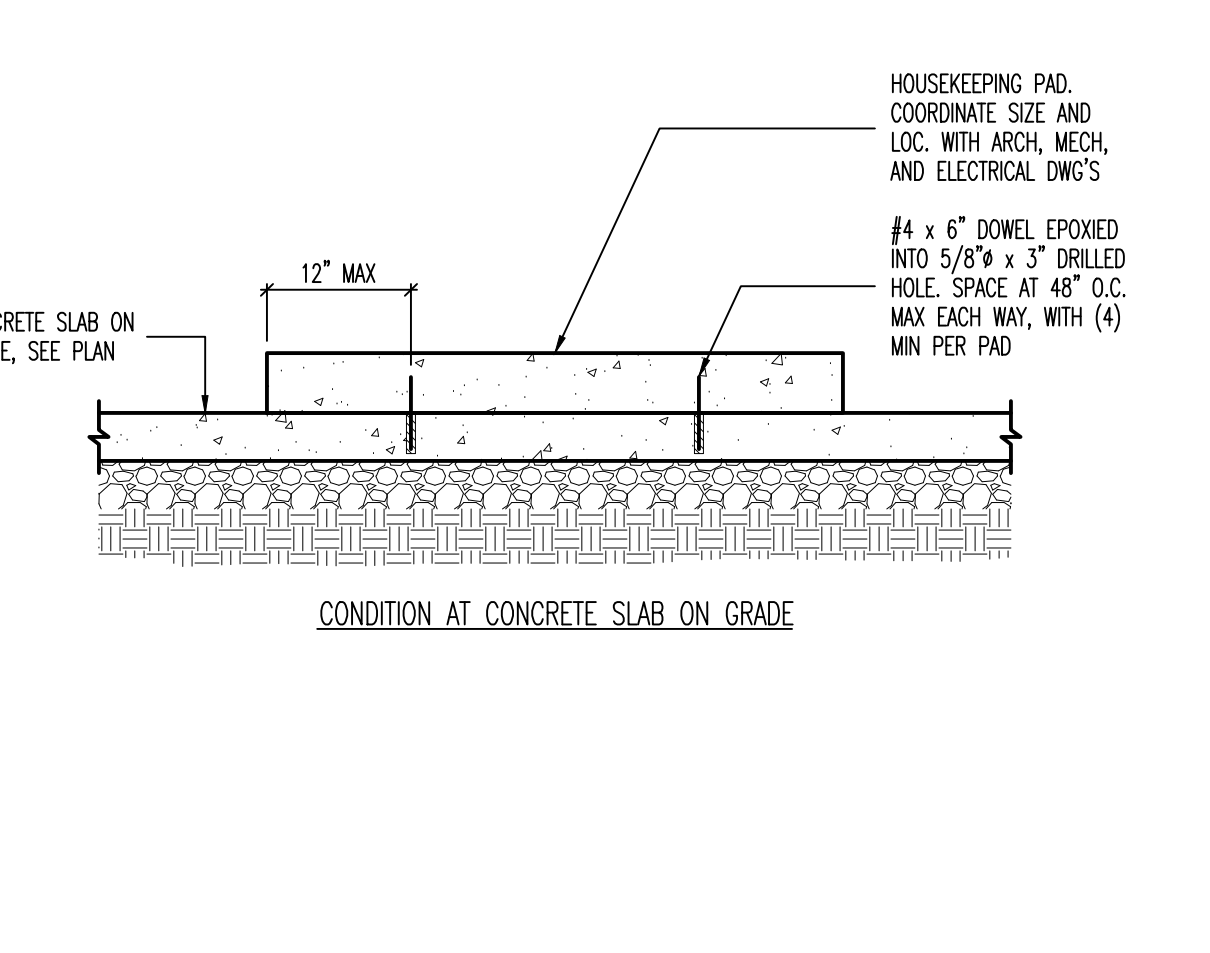
**14** TYPICAL 8" OR 10" INTERIOR MASONRY WALL ON CONCRETE CURB  
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**15** CONCRETE FOUNDATION WALL DETAIL  
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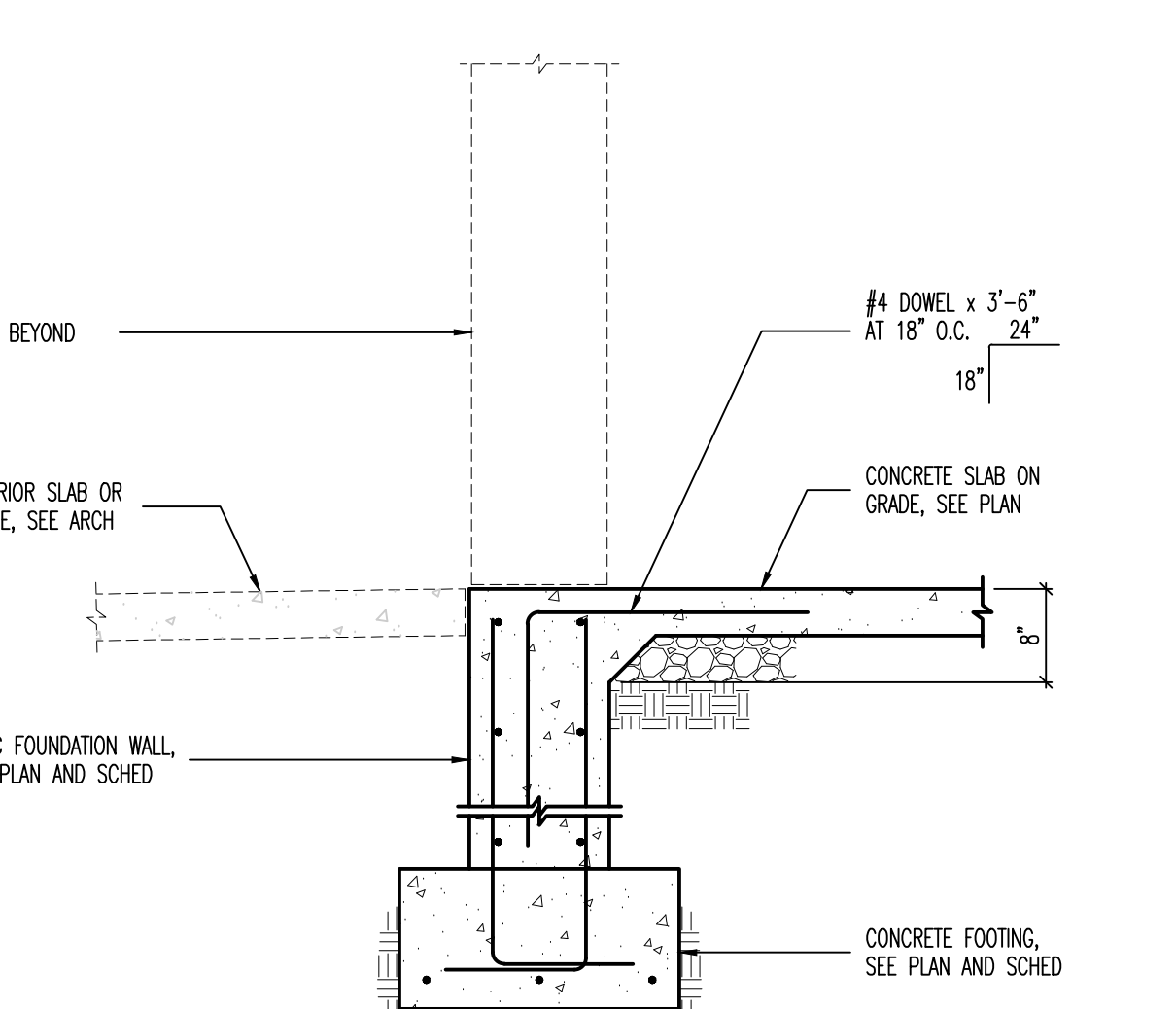
**16** STEEL COLUMN BEARING DETAIL AT 8" OR 10" MASONRY WALL  
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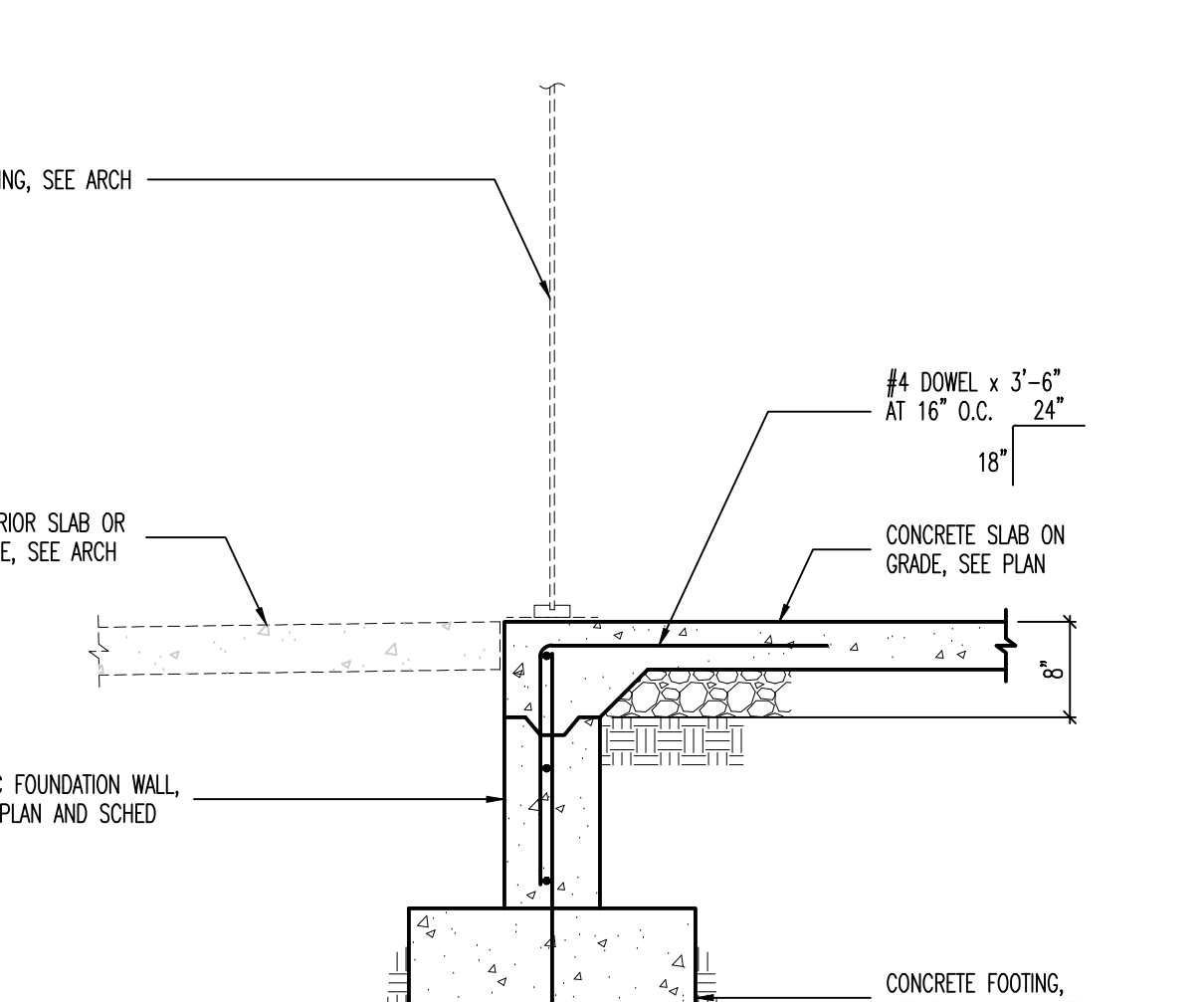
**13** TYPICAL STEEL COLUMN TO PIER AT EXTERIOR FOUNDATION WALL  
NO SCALE



**14** TYPICAL 8" OR 10" INTERIOR MASONRY WALL ON CONCRETE CURB  
NO SCALE



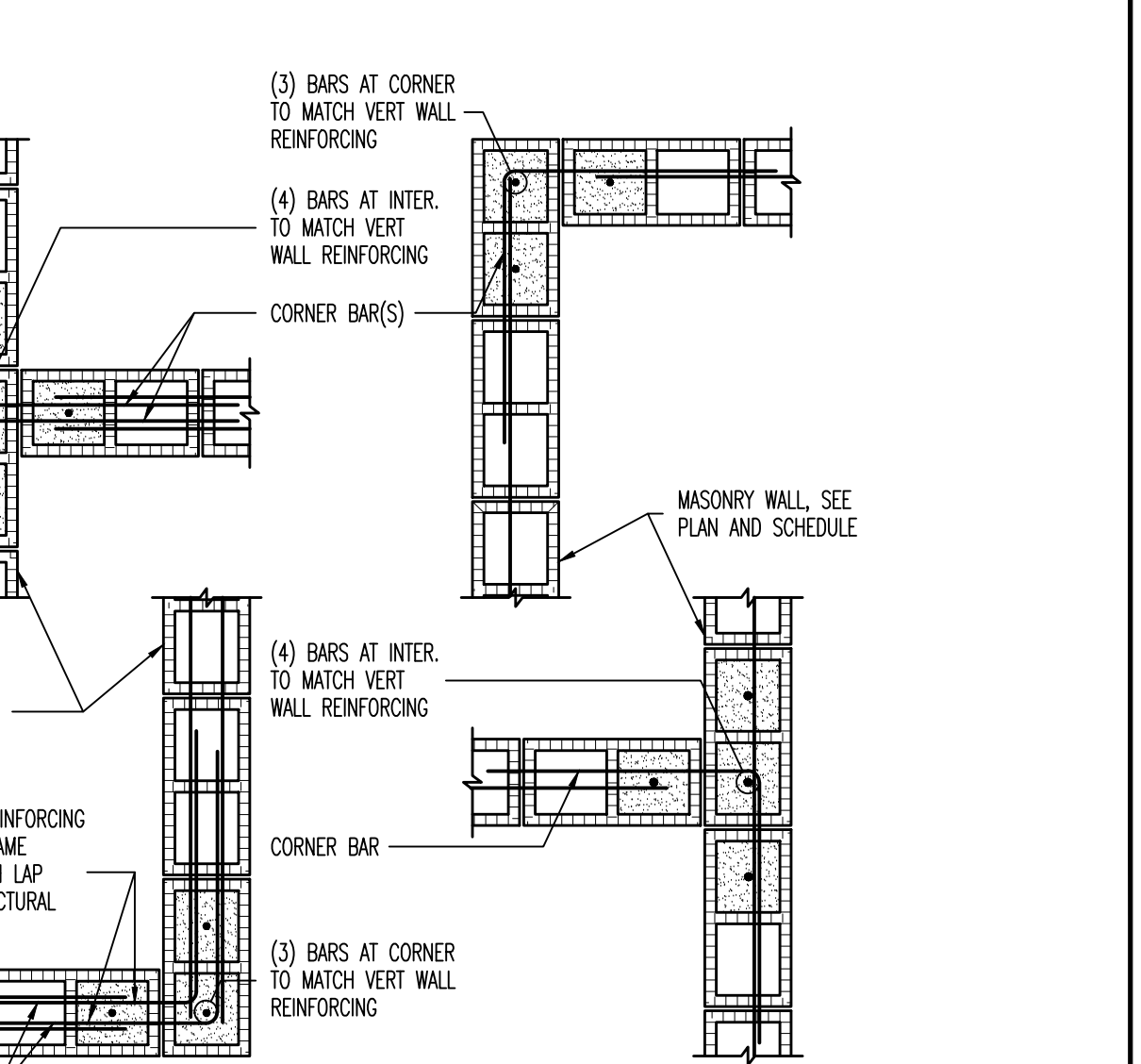
**15** CONCRETE FOUNDATION WALL DETAIL  
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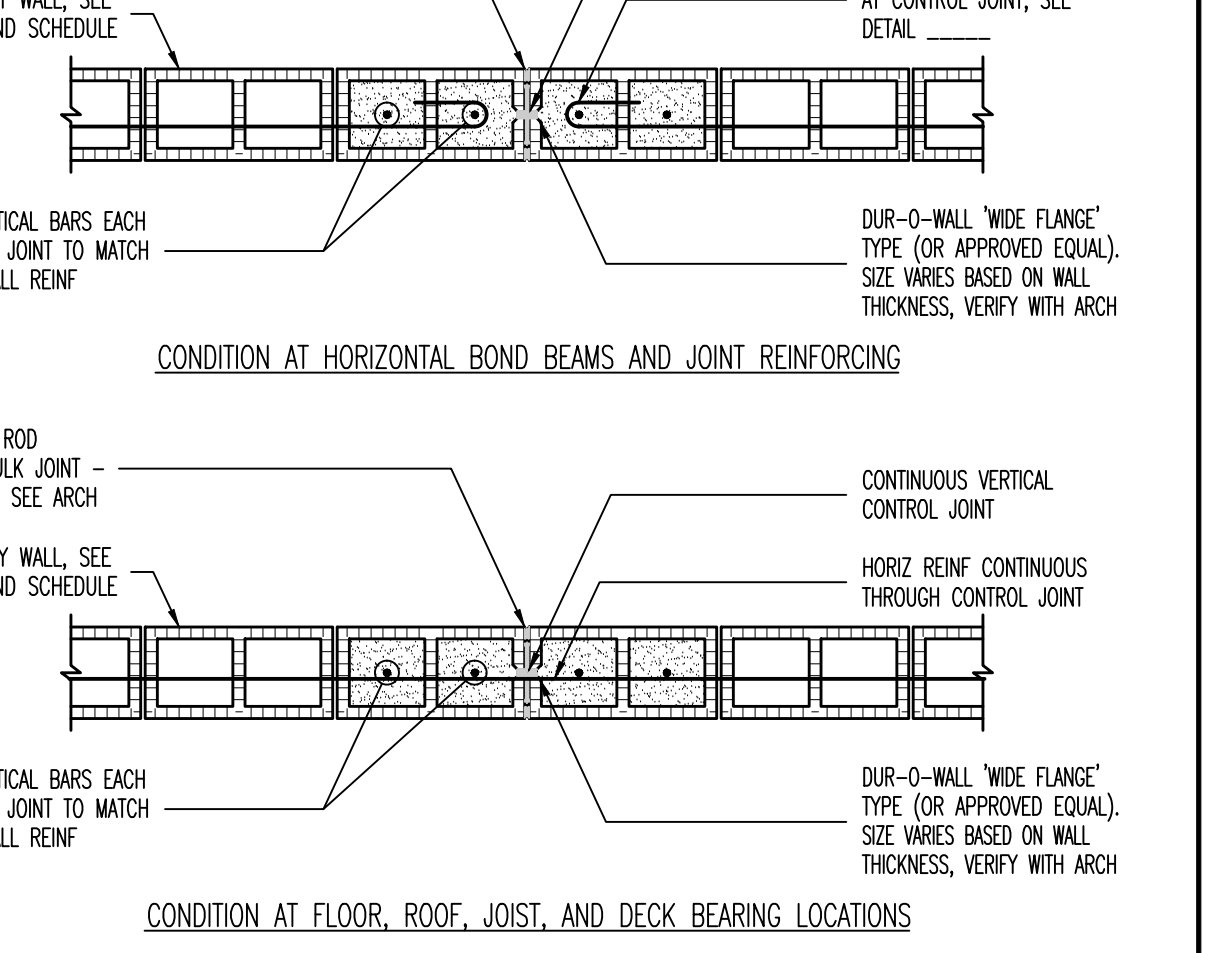
**16** STEEL COLUMN BEARING DETAIL AT 8" OR 10" MASONRY WALL  
NO SCALE

**17** CONCRETE FOUNDATION WALL DETAIL  
NO SCALE

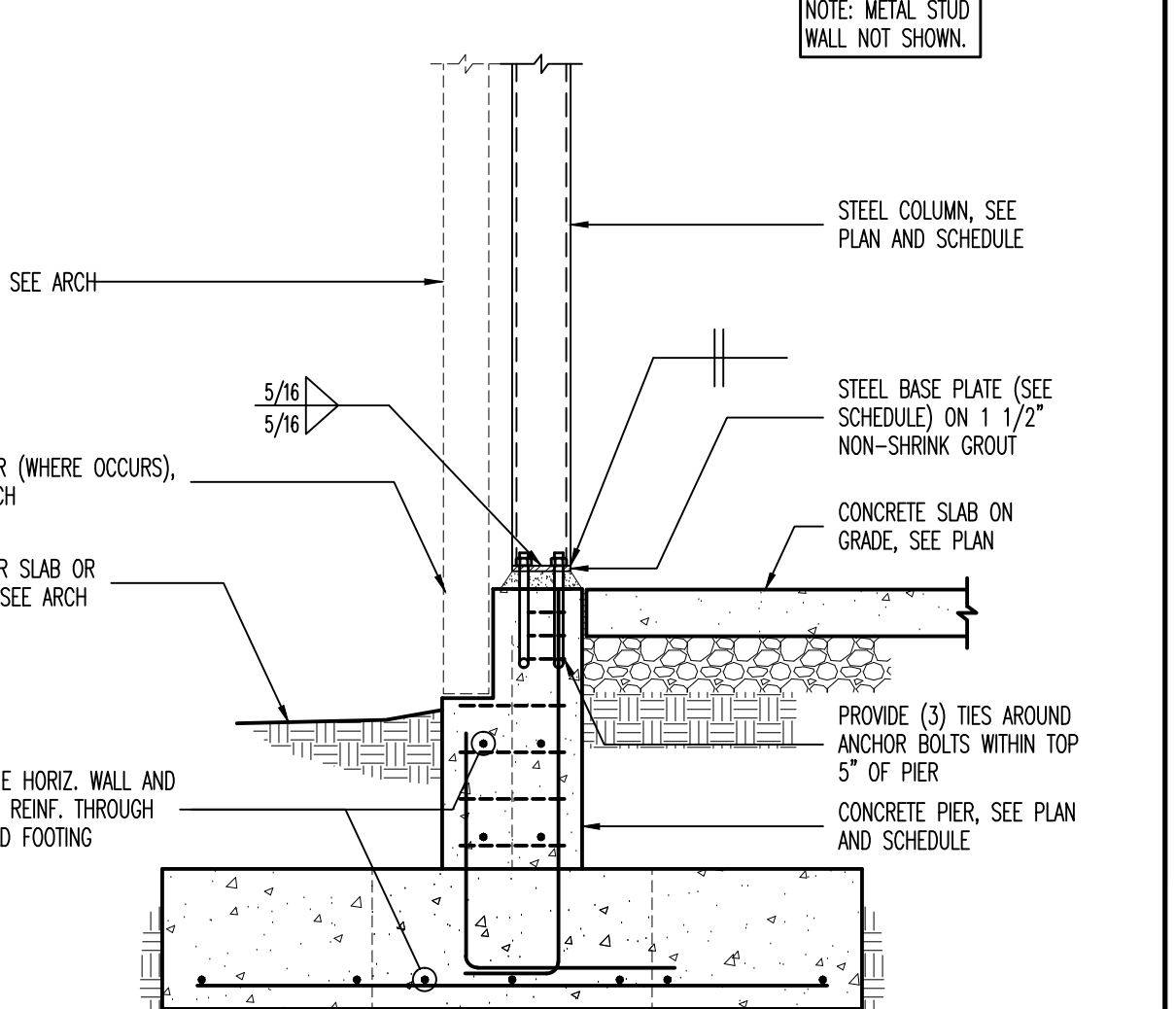
**18** STEEL COLUMN BEARING DETAIL AT 8" OR 10" MASONRY WALL  
NO SCALE



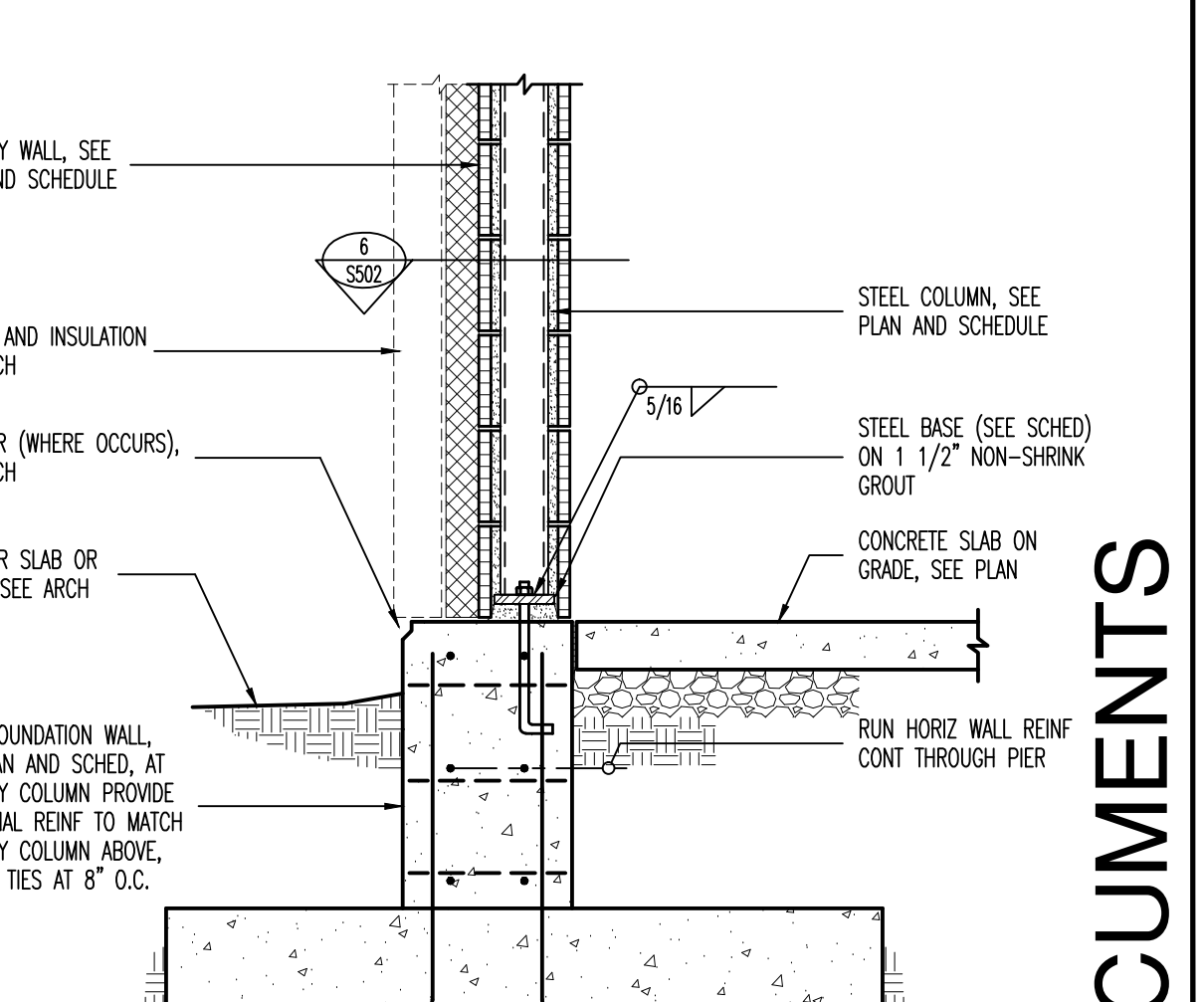
**17** CONCRETE FOUNDATION WALL DETAIL  
NO SCALE



**18** STEEL COLUMN BEARING DETAIL AT 8" OR 10" MASONRY WALL  
NO SCALE



**19** TYPICAL STEEL COLUMN TO PIER AT EXTERIOR FOUNDATION WALL  
NO SCALE



**20** TYPICAL 8" OR 10" INTERIOR MASONRY WALL ON CONCRETE CURB  
NO SCALE

**21** CONCRETE FOUNDATION WALL DETAIL  
NO SCALE

**22** STEEL COLUMN BEARING DETAIL AT 8" OR 10" MASONRY WALL  
NO SCALE

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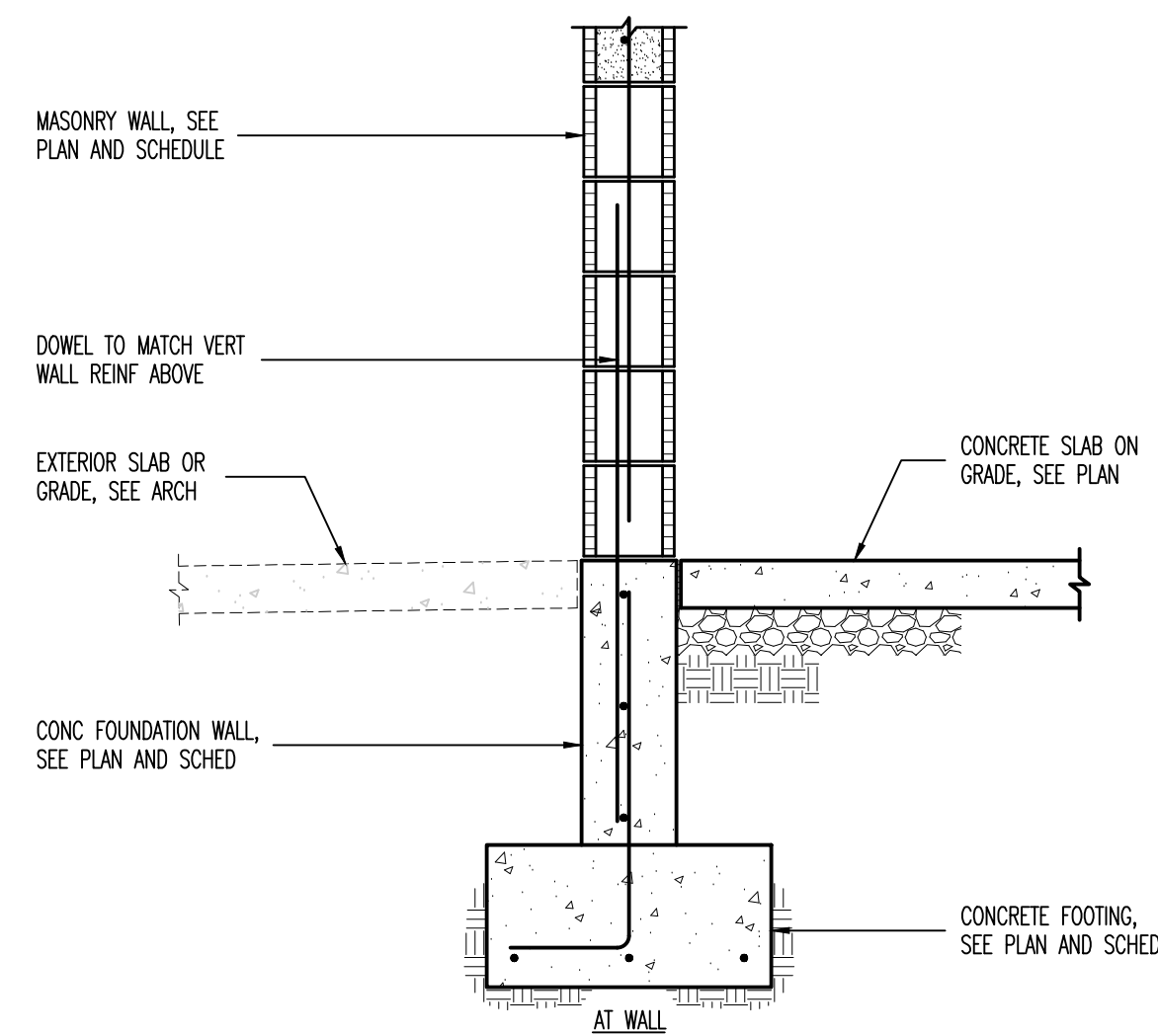
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FOOTING AND FOUNDATION DETAILS

**S 501**

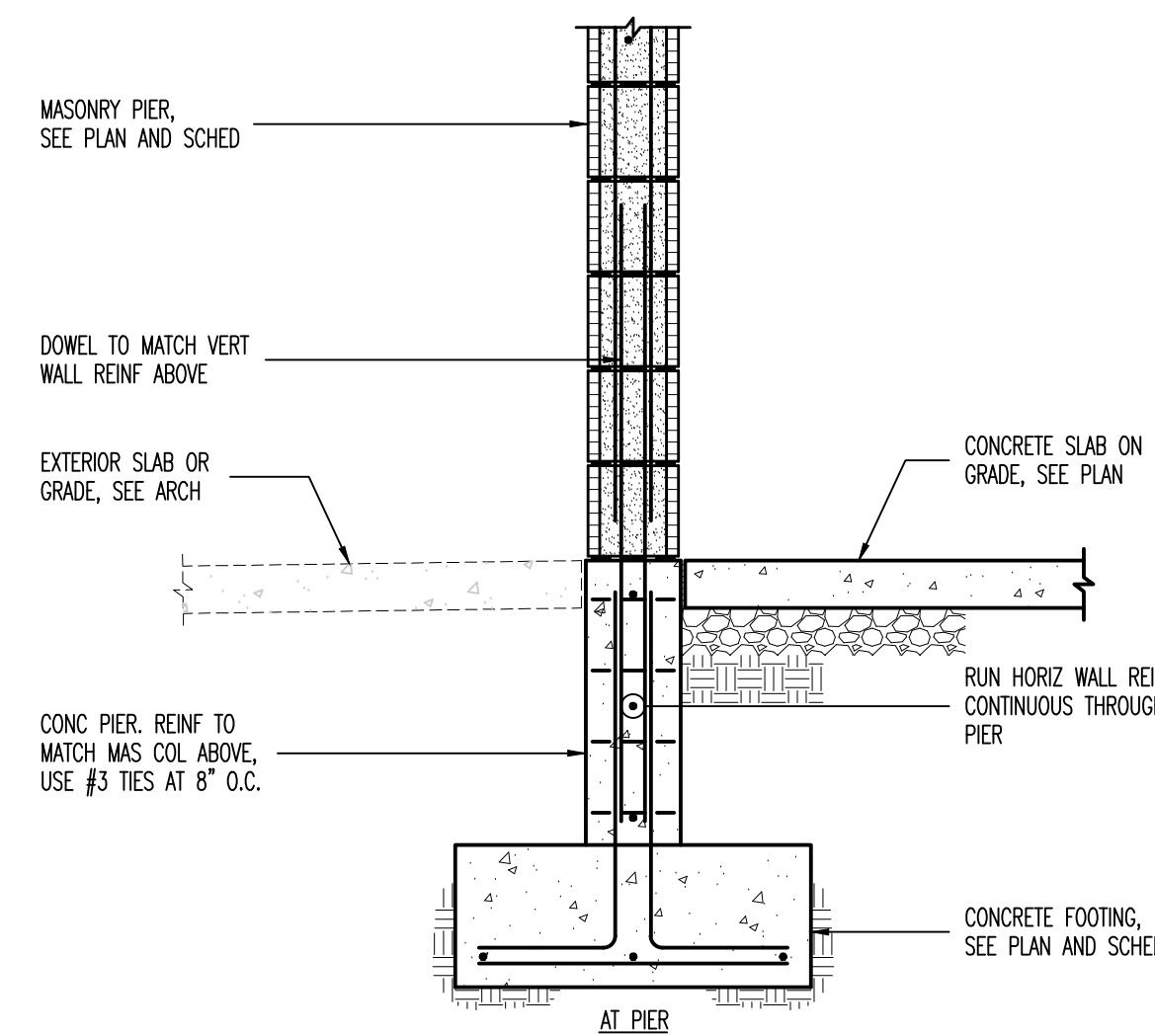
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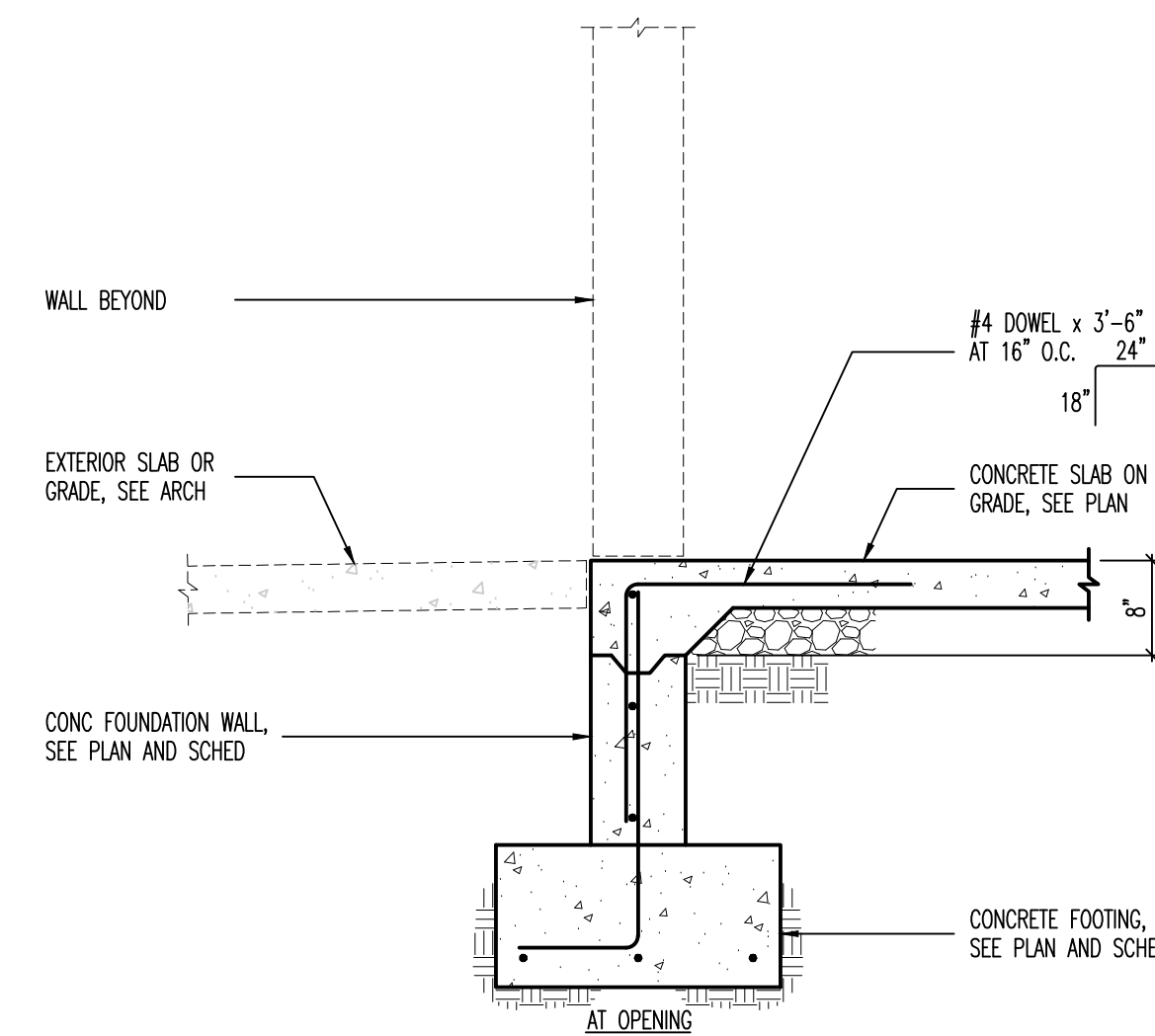
1 FOUNDATION WALL DETAIL AT 8" MASONRY WALL

2006-01



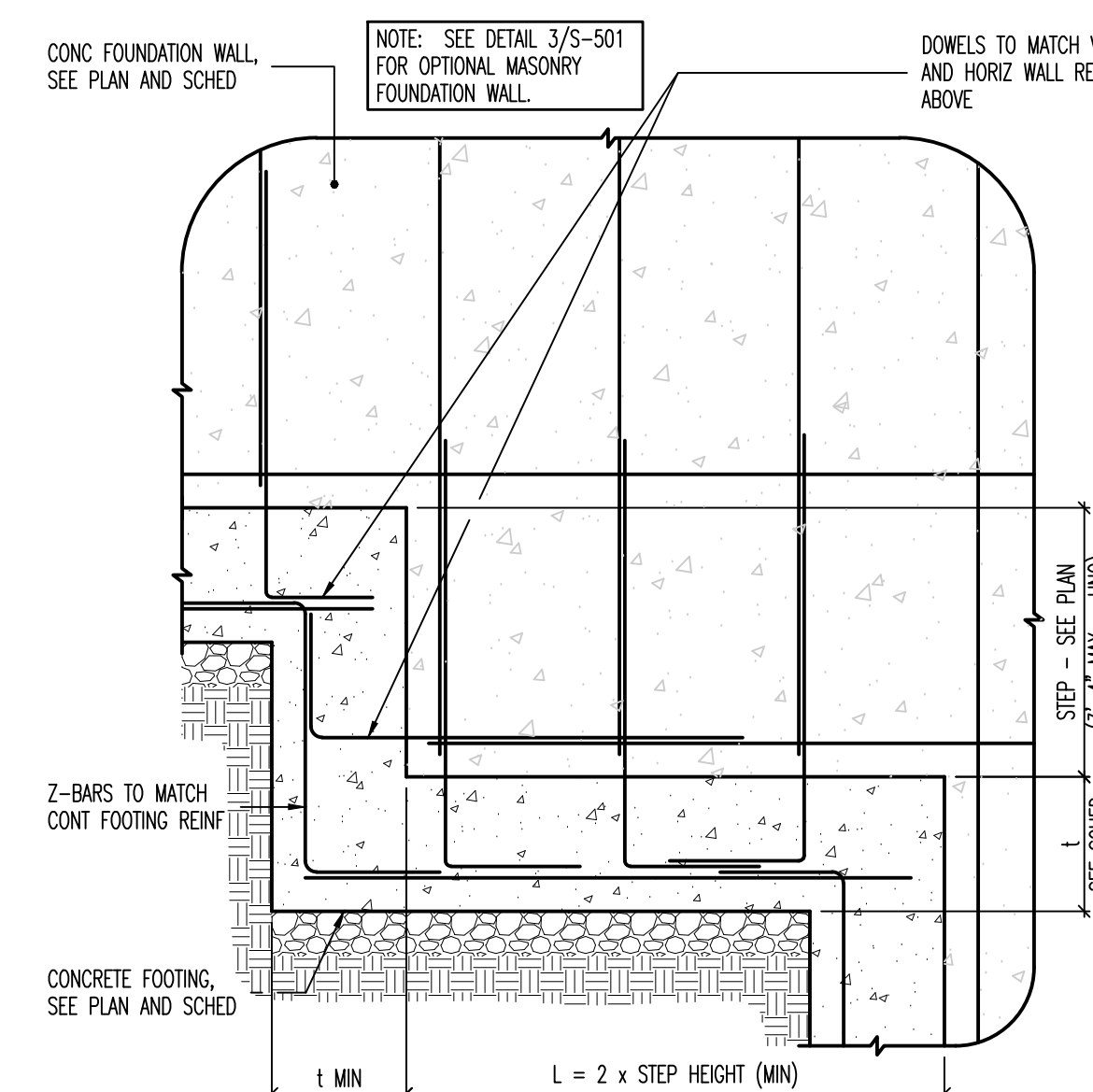
2 FOUNDATION WALL DETAIL AT PIER

2006-01



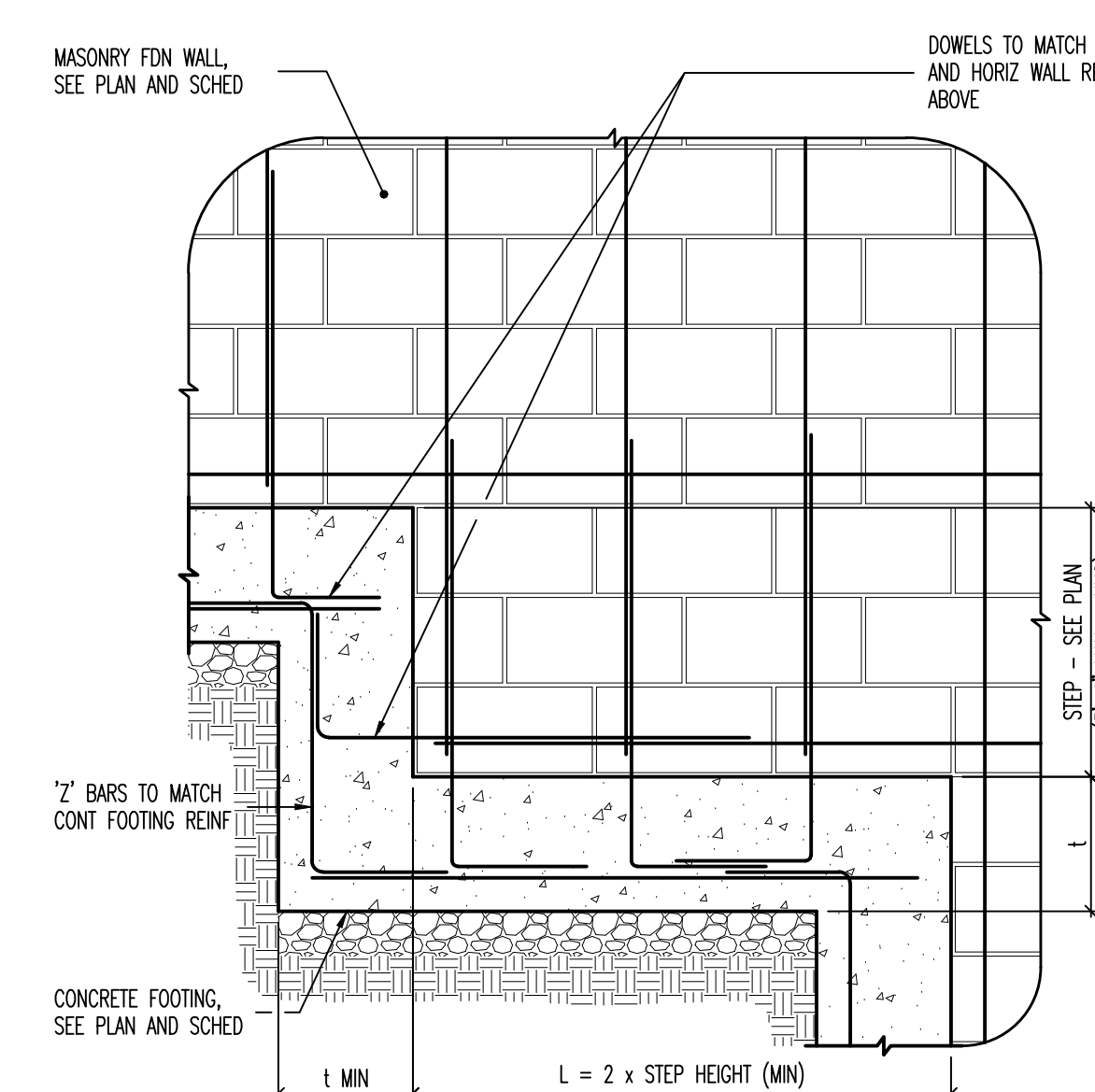
3 FOUNDATION WALL DETAIL AT OPENING

2006-01



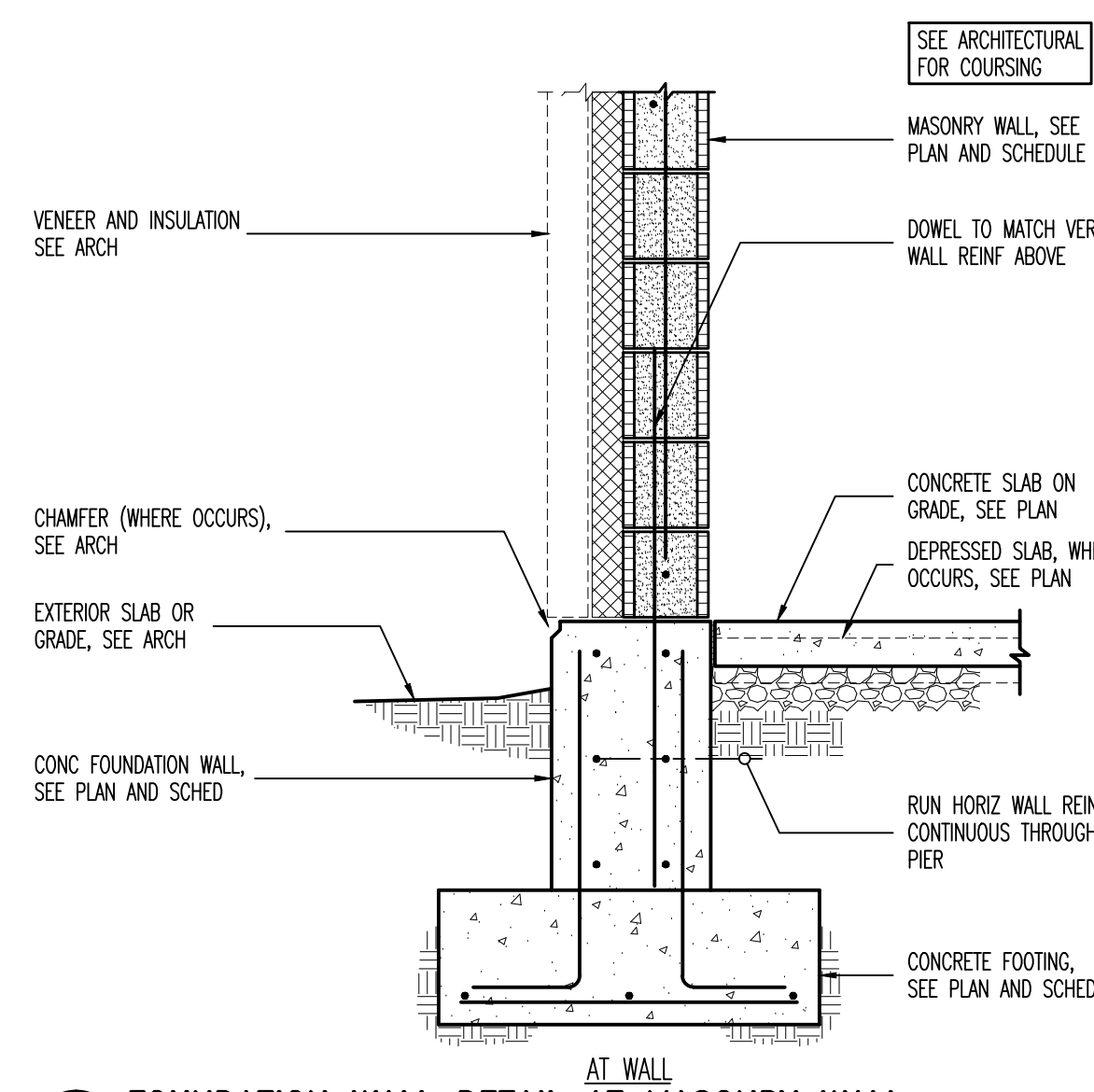
2 TYPICAL FOOTING STEP DETAIL

2006-01



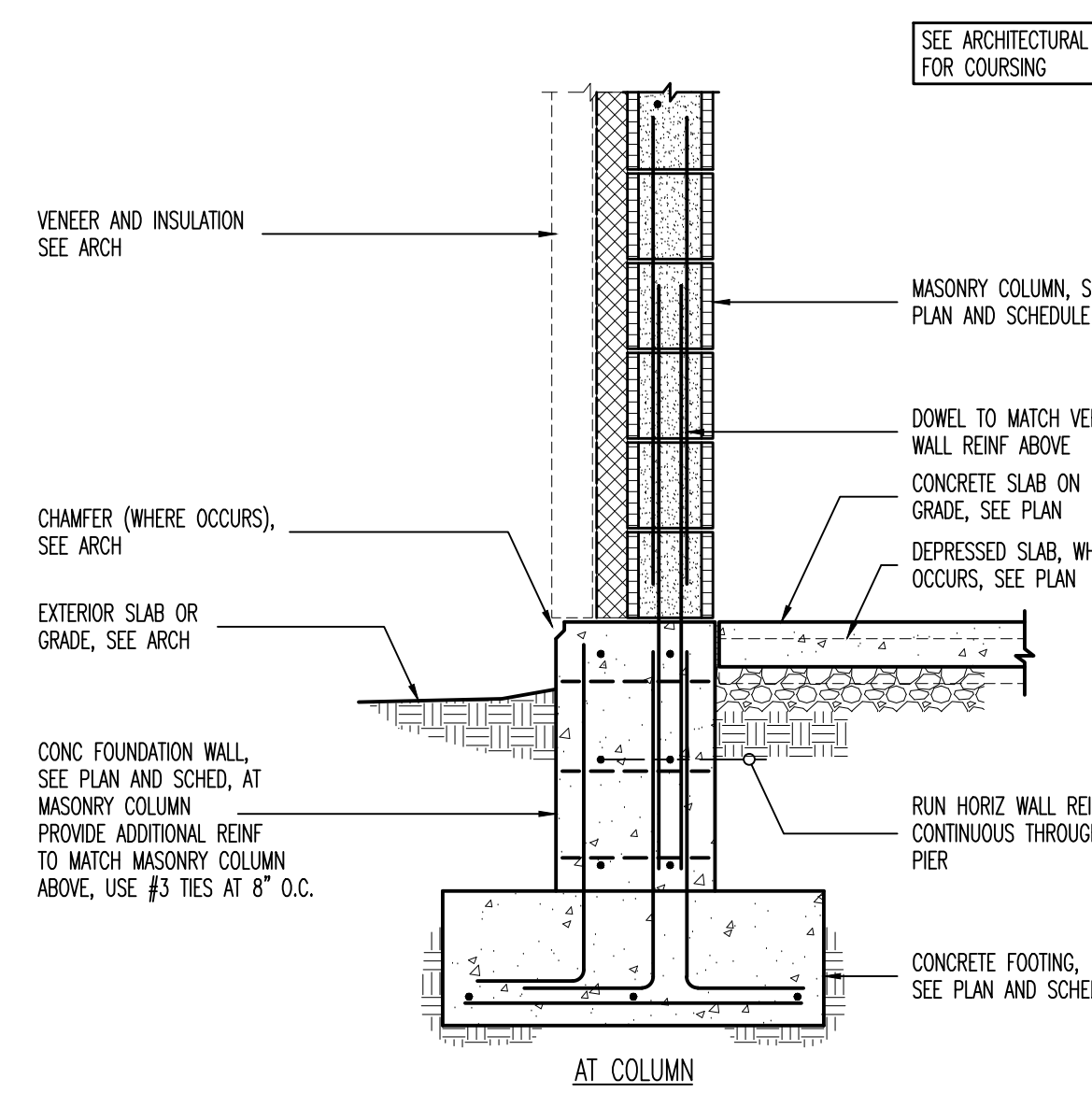
3 TYPICAL FOOTING STEP AT MASONRY FOUNDATION WALL [OPTIONAL]

2006-01



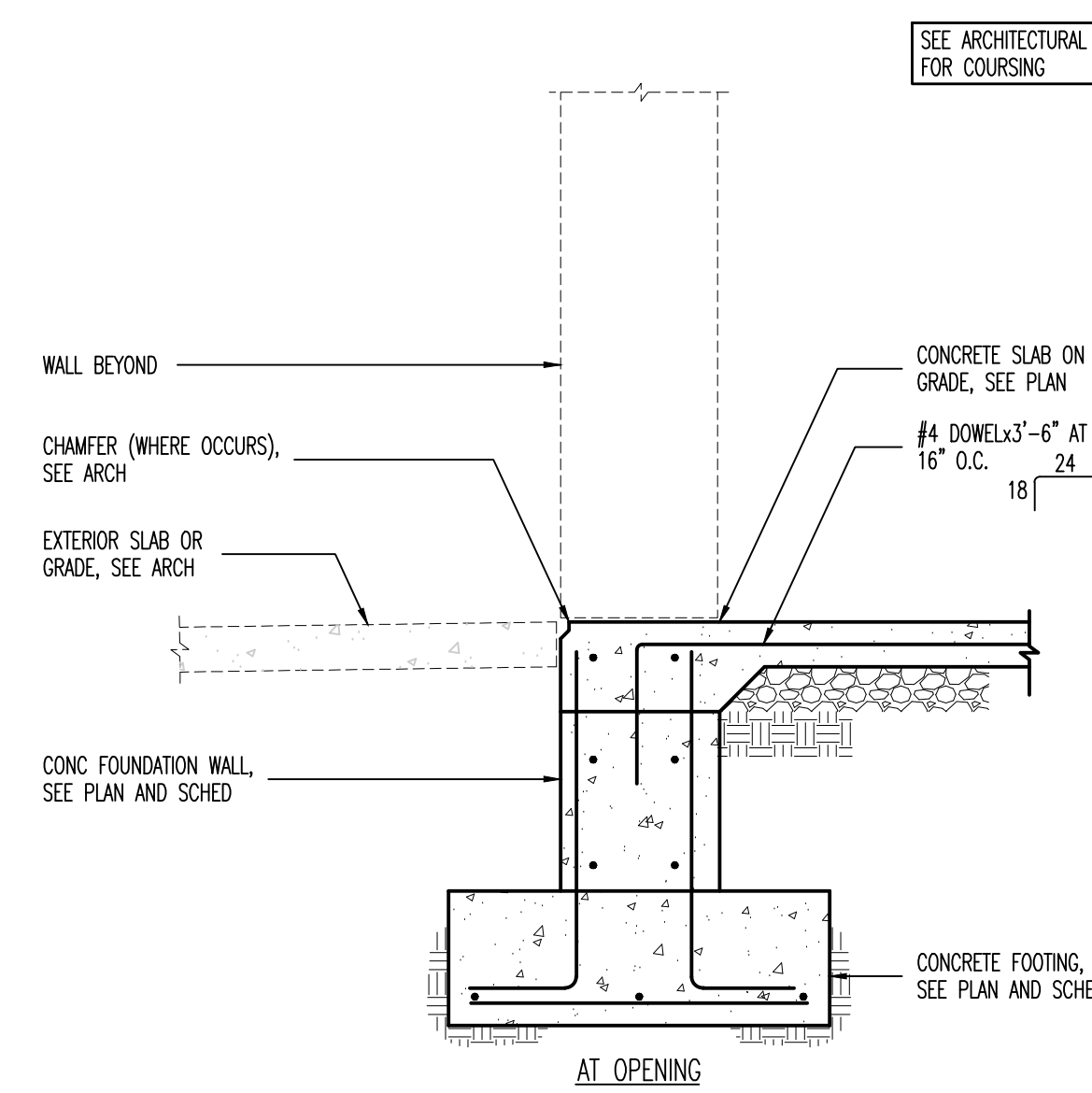
4 FOUNDATION WALL DETAIL AT MASONRY WALL

2006-01



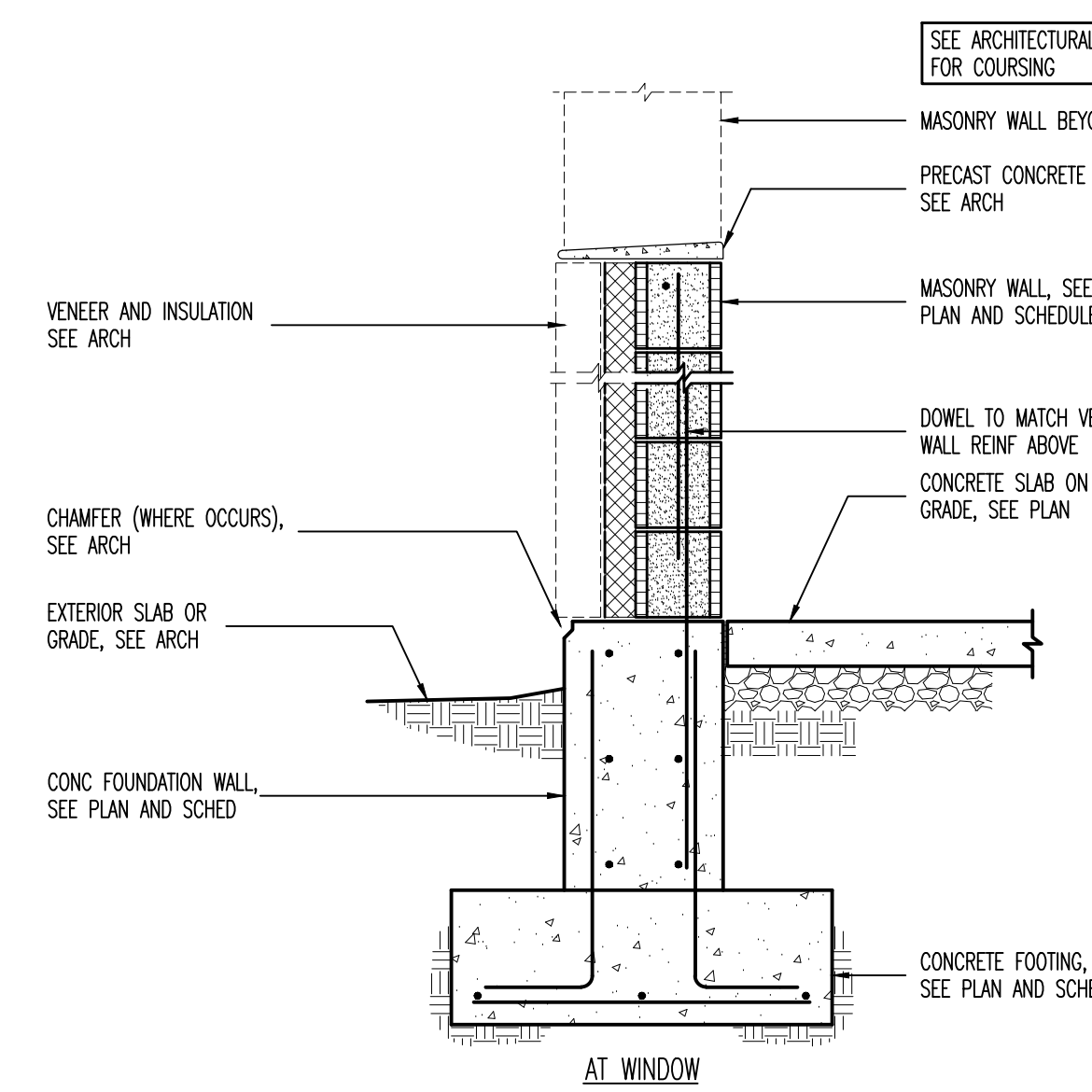
5 FOUNDATION WALL DETAIL AT COLUMN

2006-01



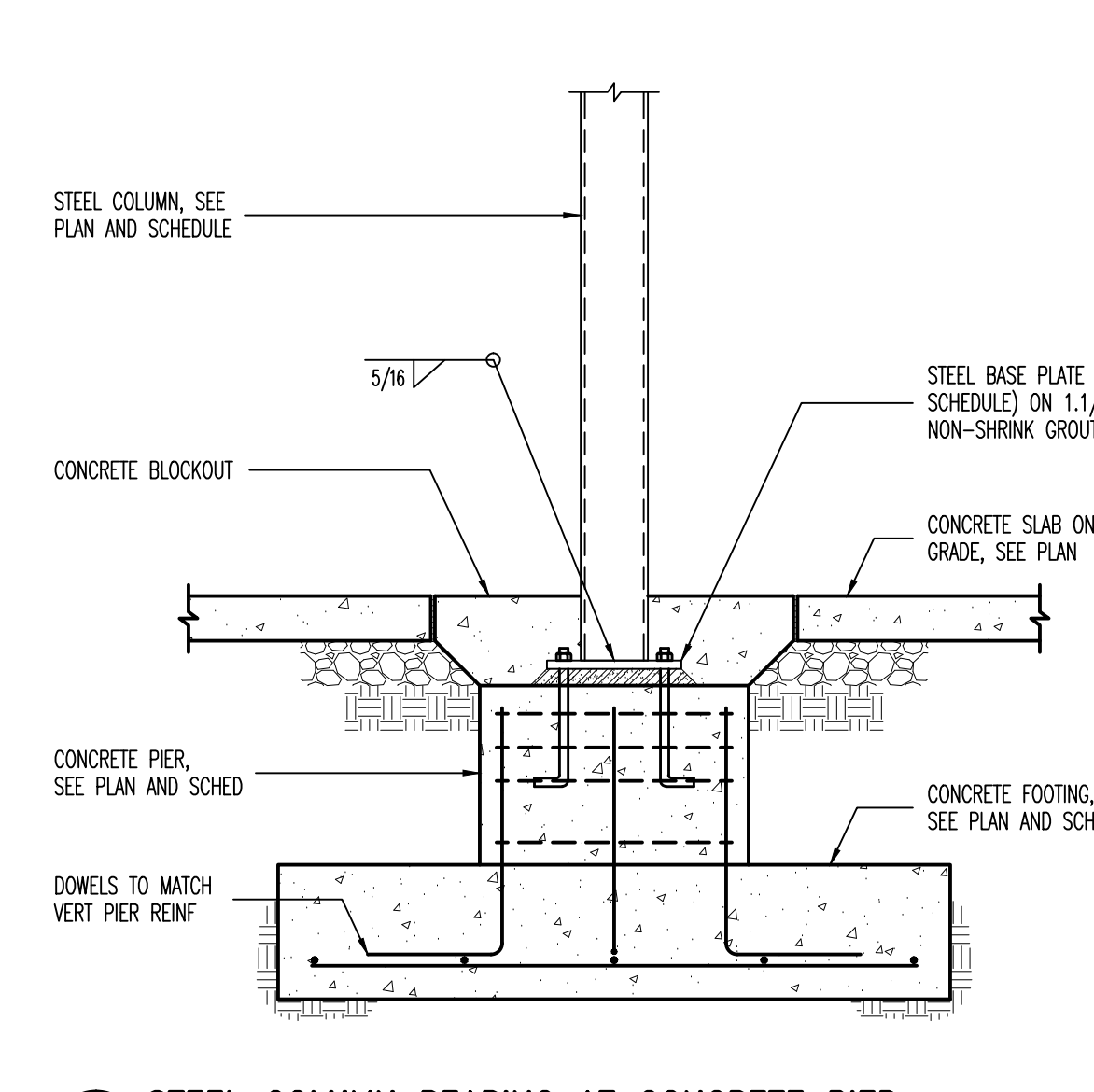
6 FOUNDATION WALL DETAIL AT OPENING

2006-01



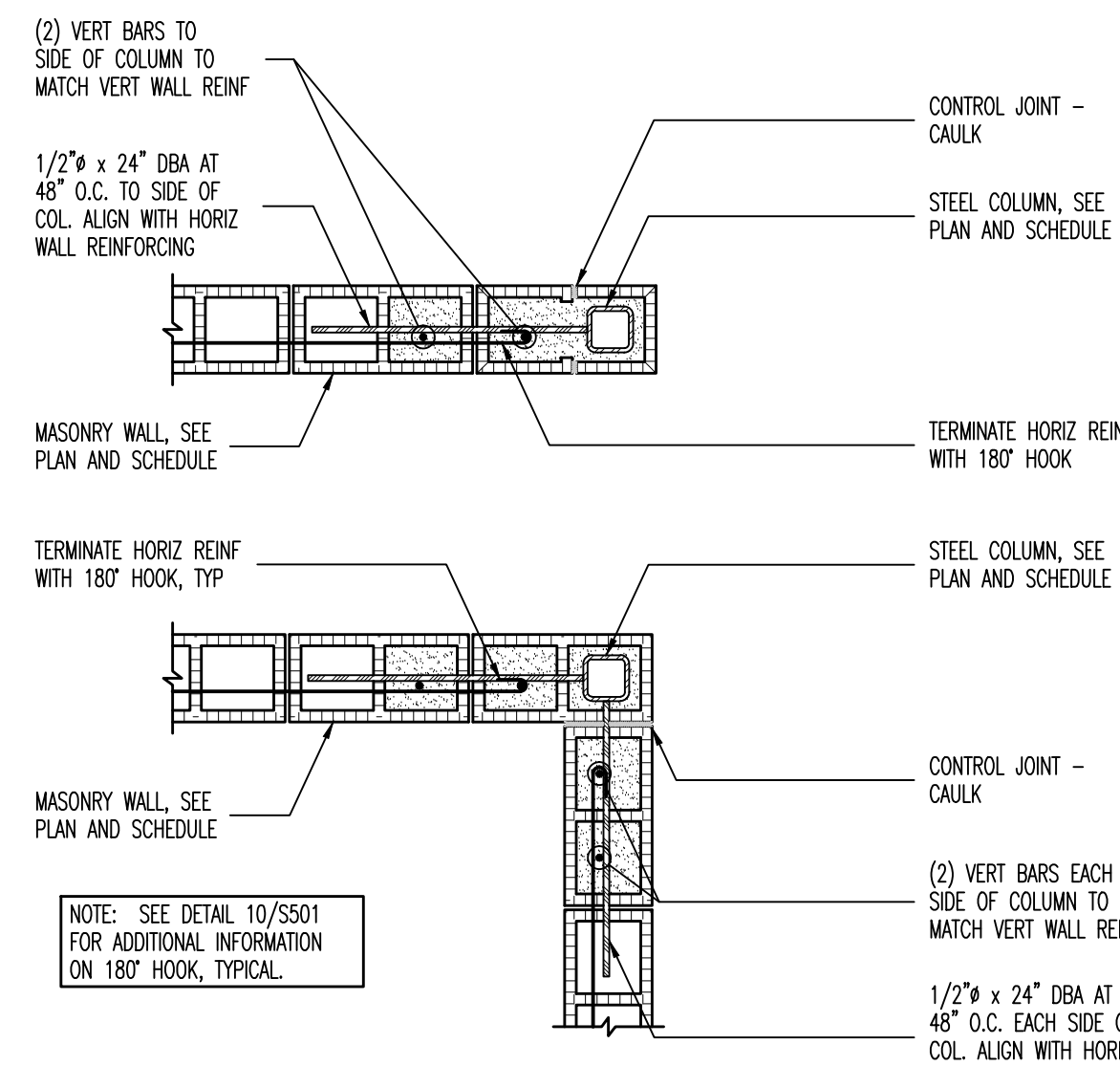
7 FOUNDATION WALL DETAIL AT WINDOW

2006-01



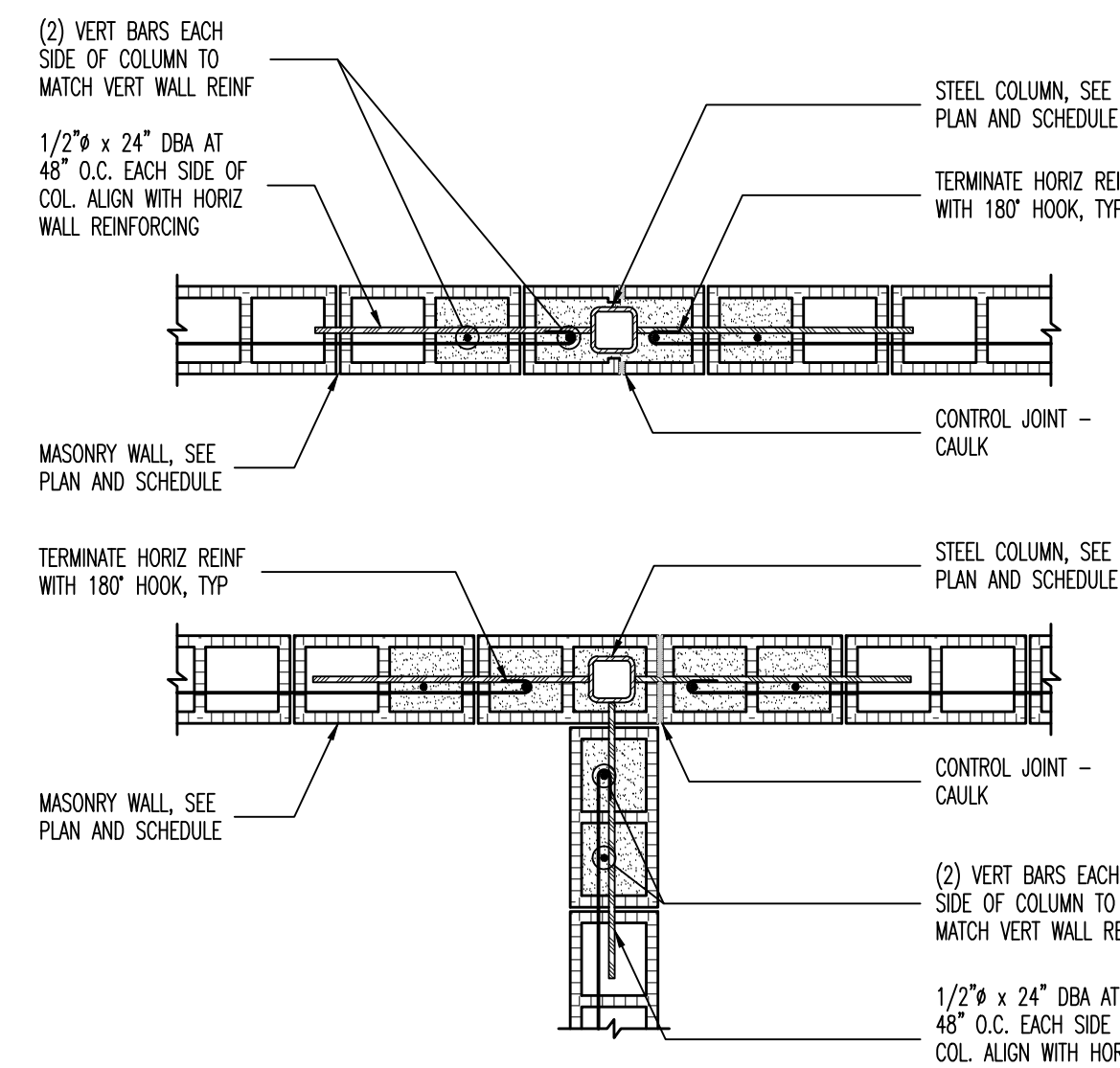
5 STEEL COLUMN BEARING AT CONCRETE PIER

2006-01



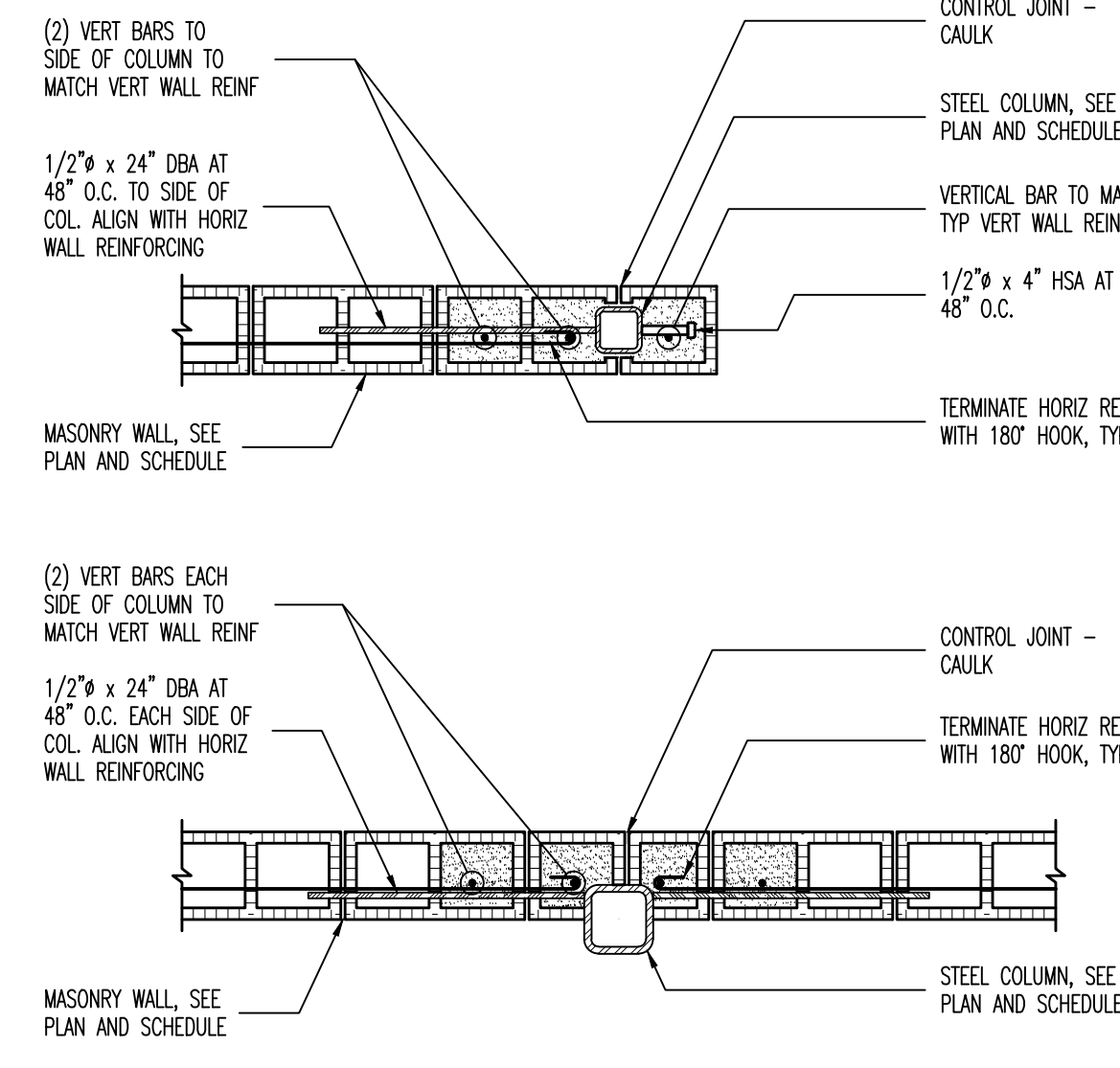
6 TYPICAL STEEL COLUMN BURIED IN MASONRY WALLS [PLAN VIEW]

2006-01



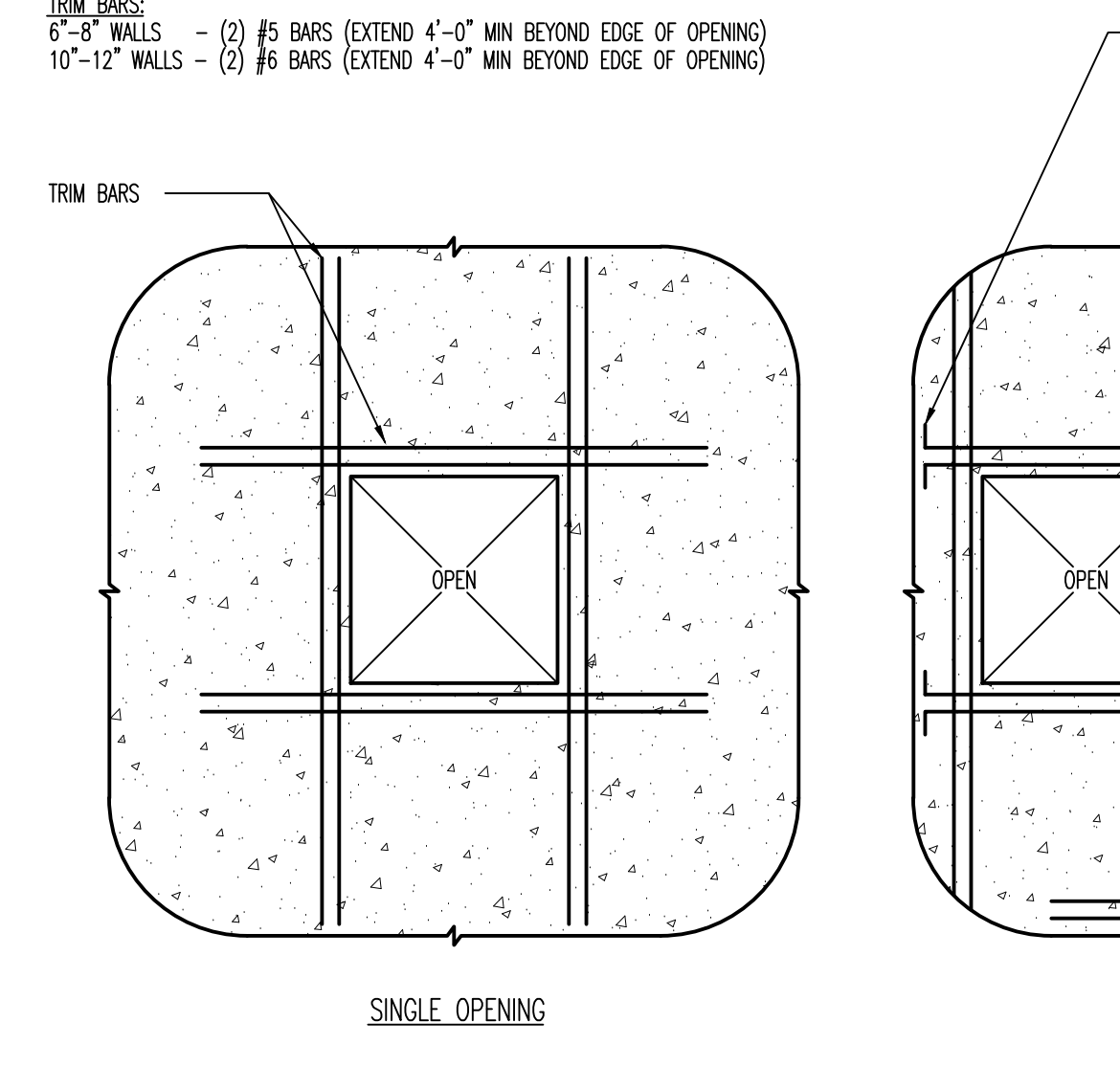
7 TYPICAL STEEL COLUMN BURIED IN MASONRY WALLS [PLAN VIEW]

2006-01



8 TYPICAL STEEL COLUMN BURIED IN MASONRY WALLS [PLAN VIEW]

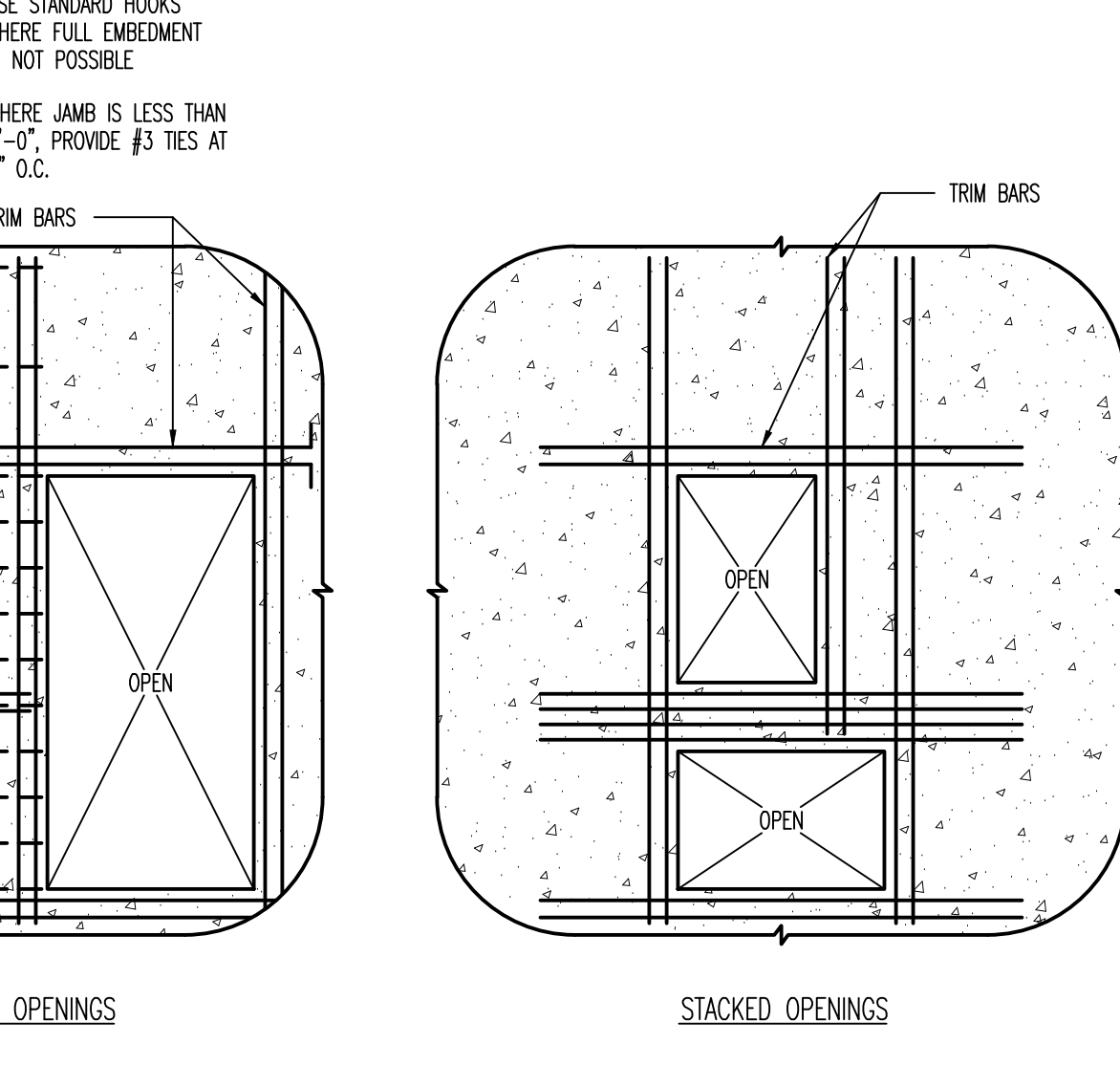
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7 TYPICAL REINFORCING FOR MISCELLANEOUS OPENINGS LESS THAN 3'-0" IN CONCRETE WALLS

WHERE MISCELLANEOUS OPENING WIDTH IS GREATER THAN 3'-0" WIDE, CONTACT STRUCTURAL ENGINEER.

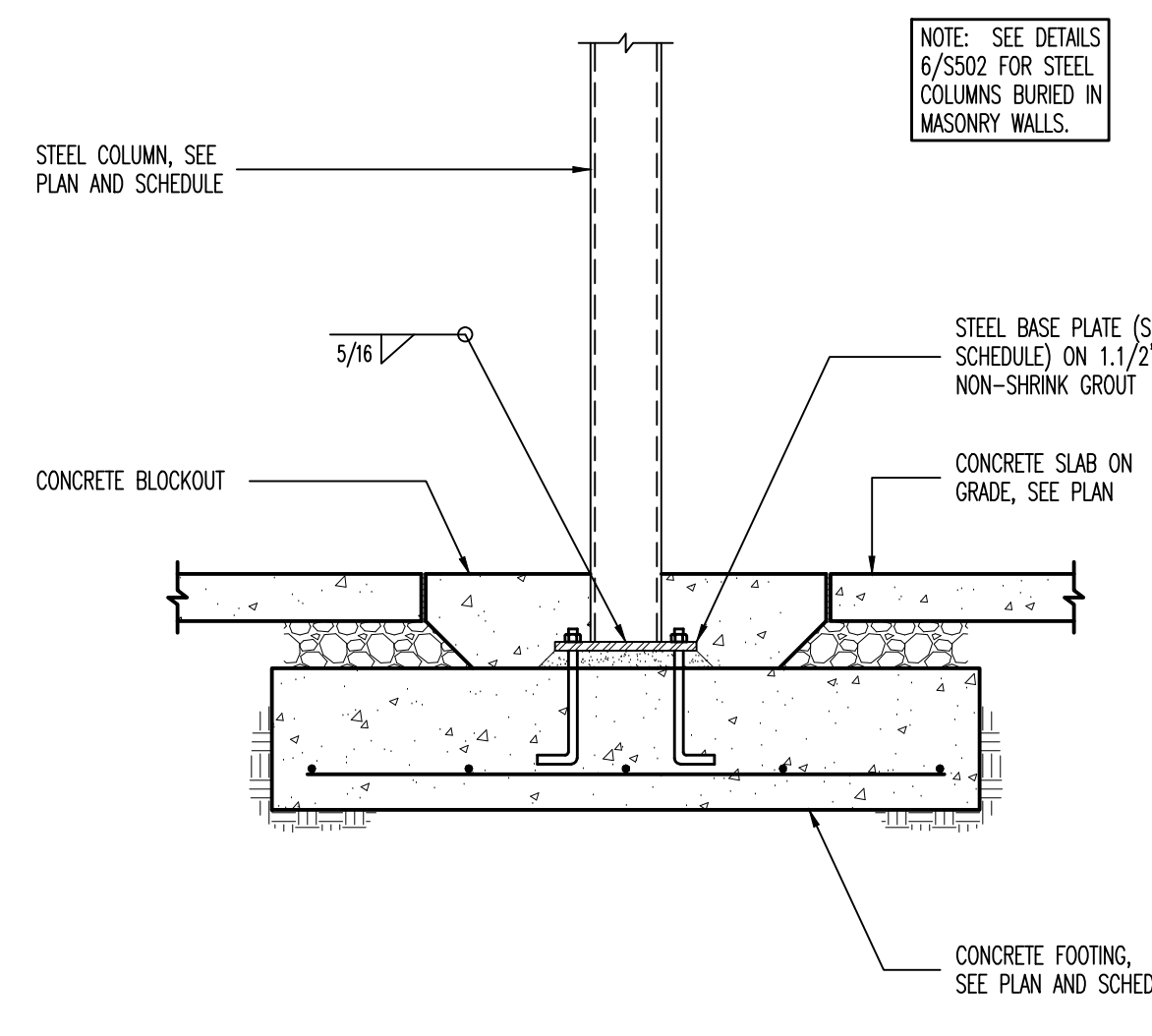
2006-01



8 TYPICAL REINFORCING FOR MISCELLANEOUS OPENINGS LESS THAN 3'-0" IN CONCRETE WALLS

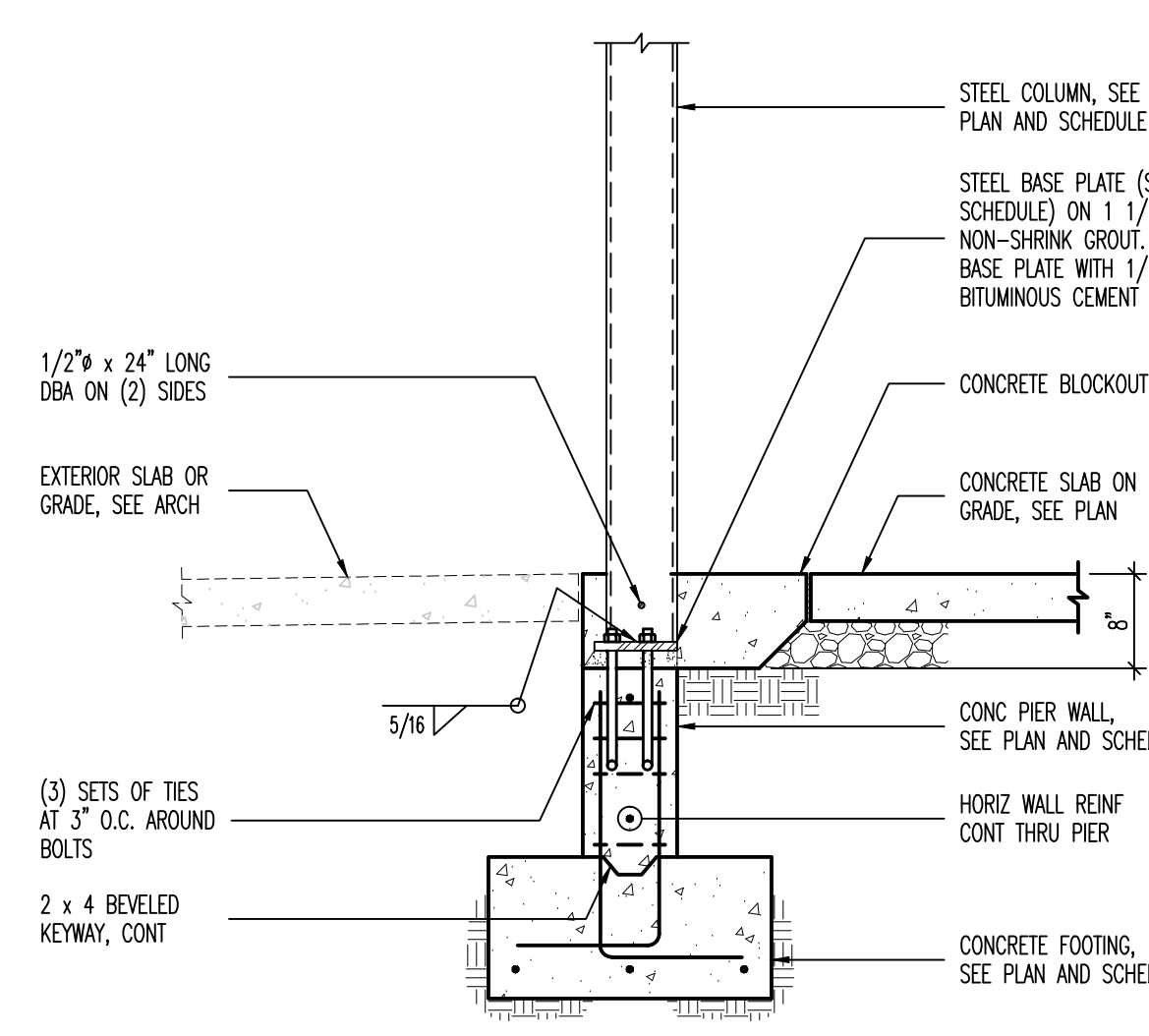
WHERE MISCELLANEOUS OPENING WIDTH IS GREATER THAN 3'-0" WIDE, CONTACT STRUCTURAL ENGINEER.

2006-01



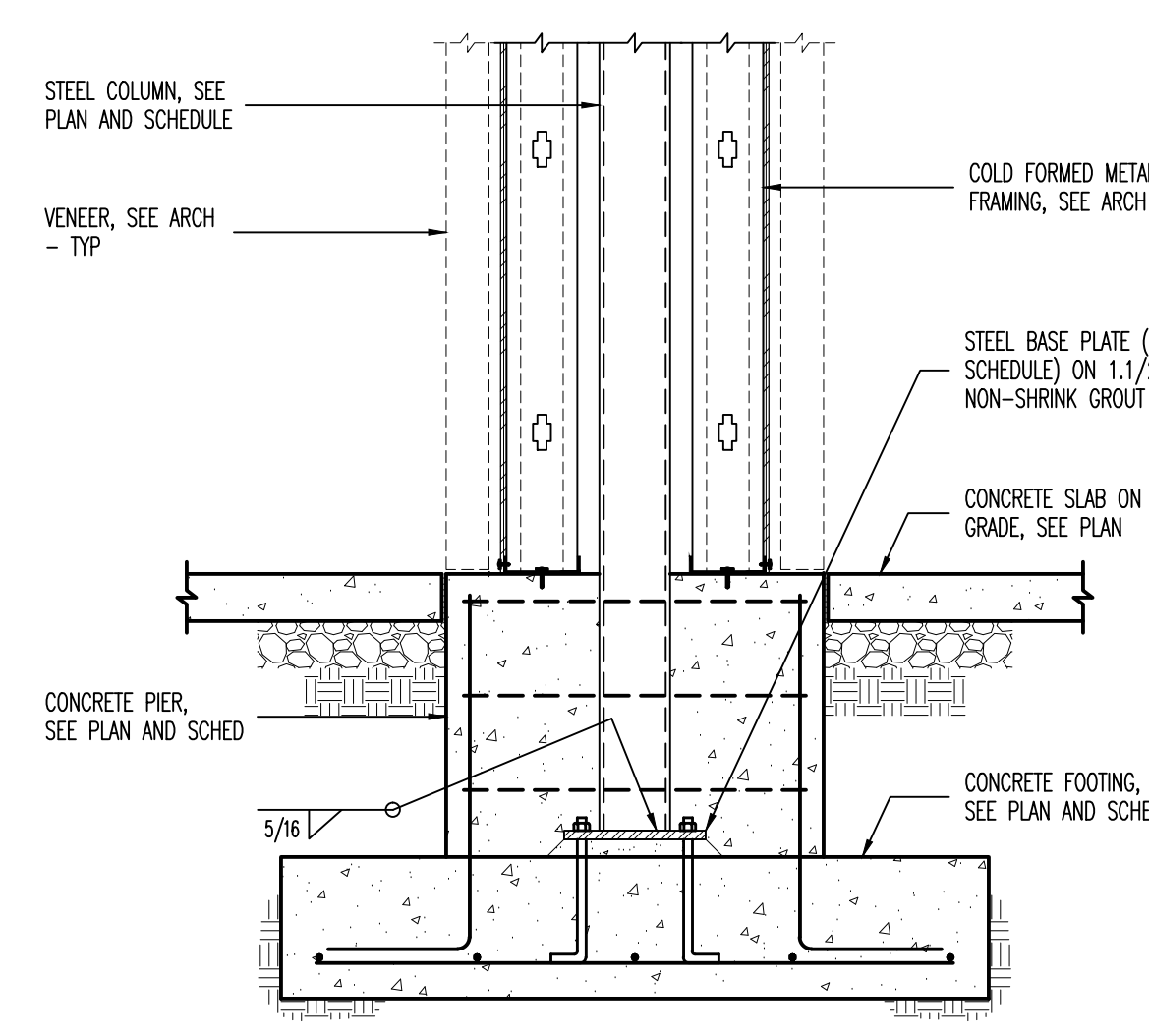
8 TYPICAL INTERIOR STEEL COLUMN TO FOOTING DETAIL

2006-01



9 TYPICAL STEEL COLUMN BEARING AT EXTERIOR CONCRETE FOUNDATION WALL

2006-01



10 STEEL COLUMN BEARING AT CONCRETE FOOTING

2006-01

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FOOTING  
AND  
FOUNDATION  
DETAILS

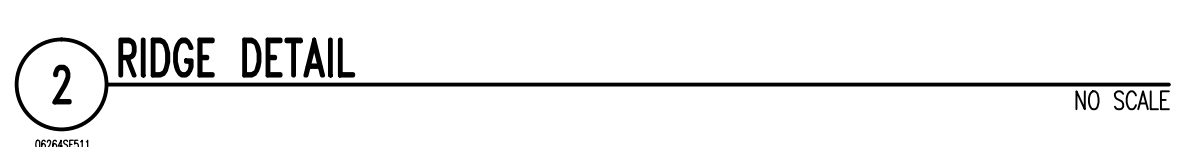
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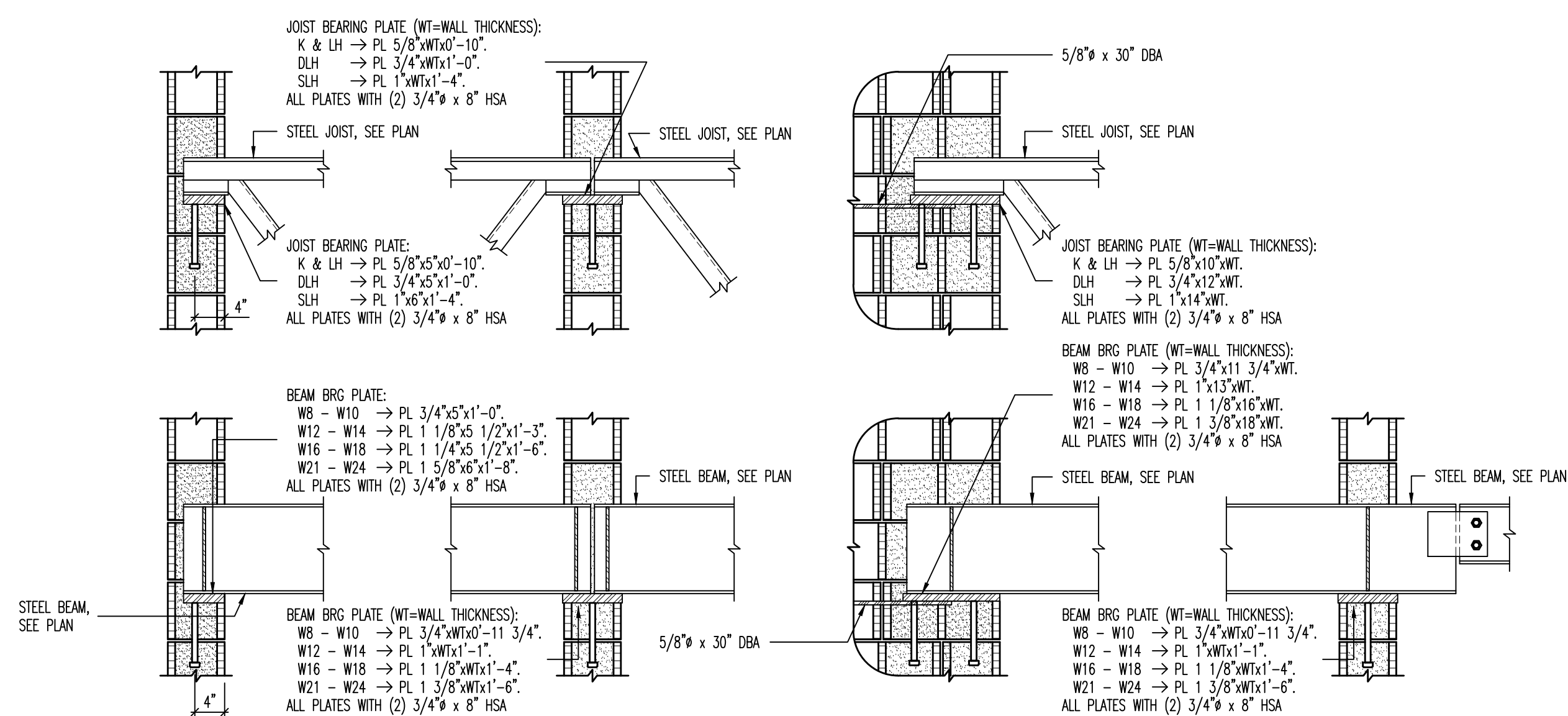




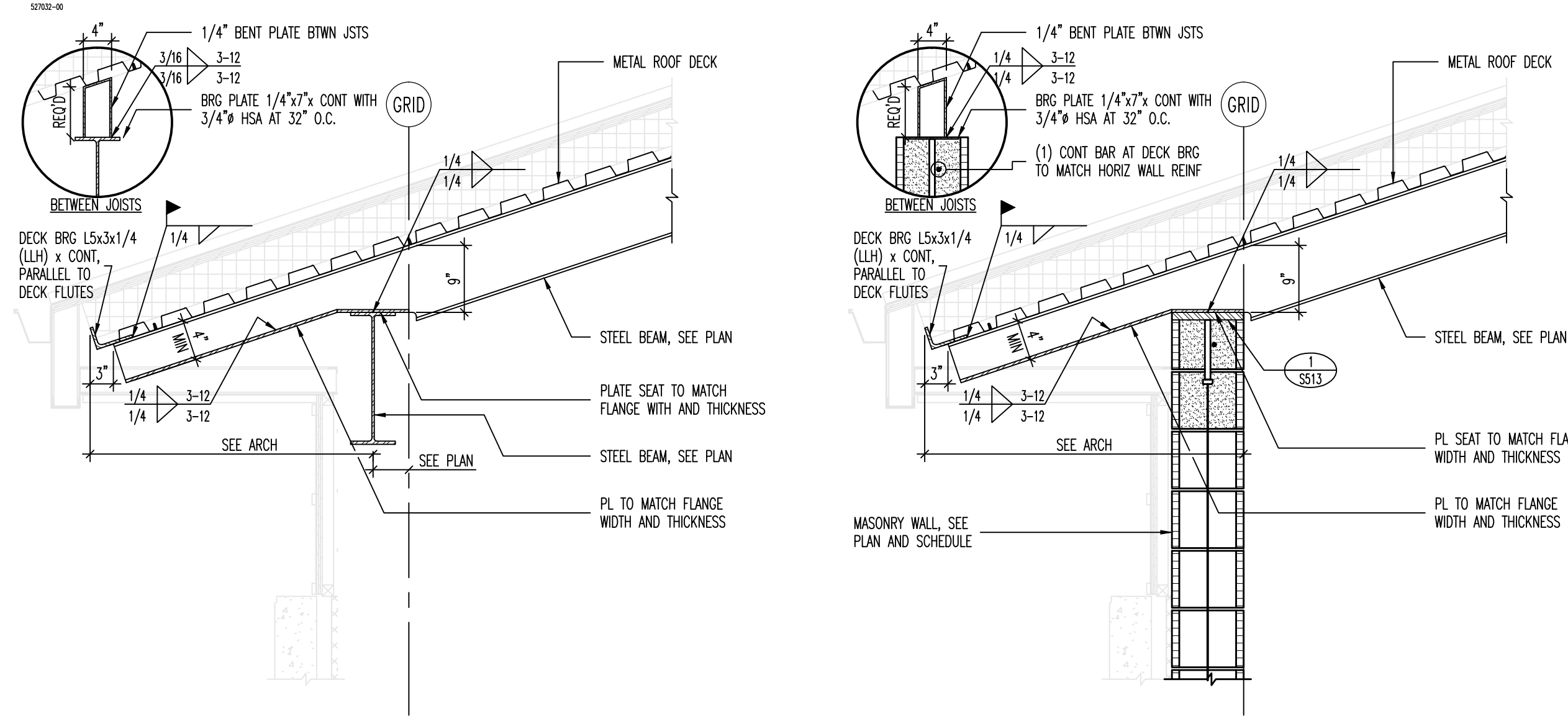




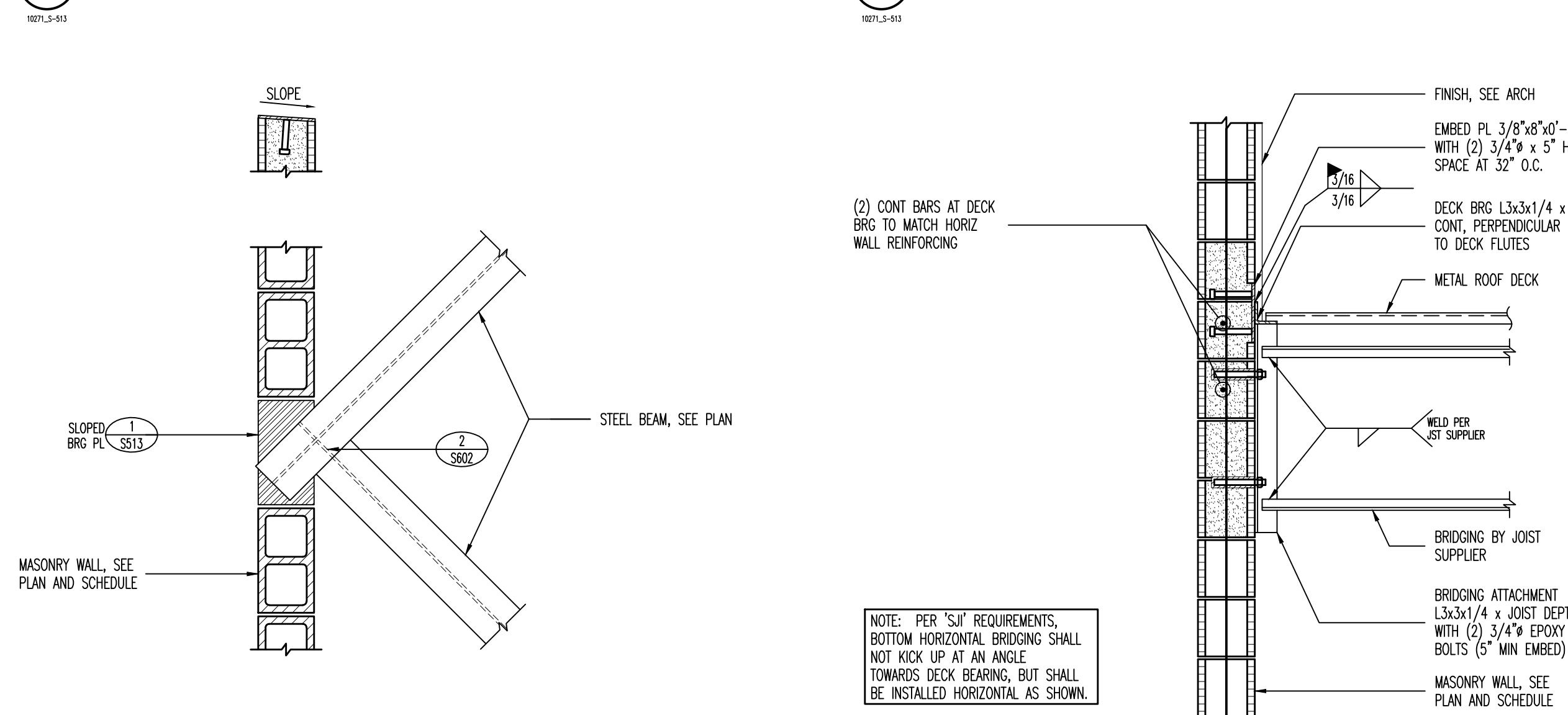




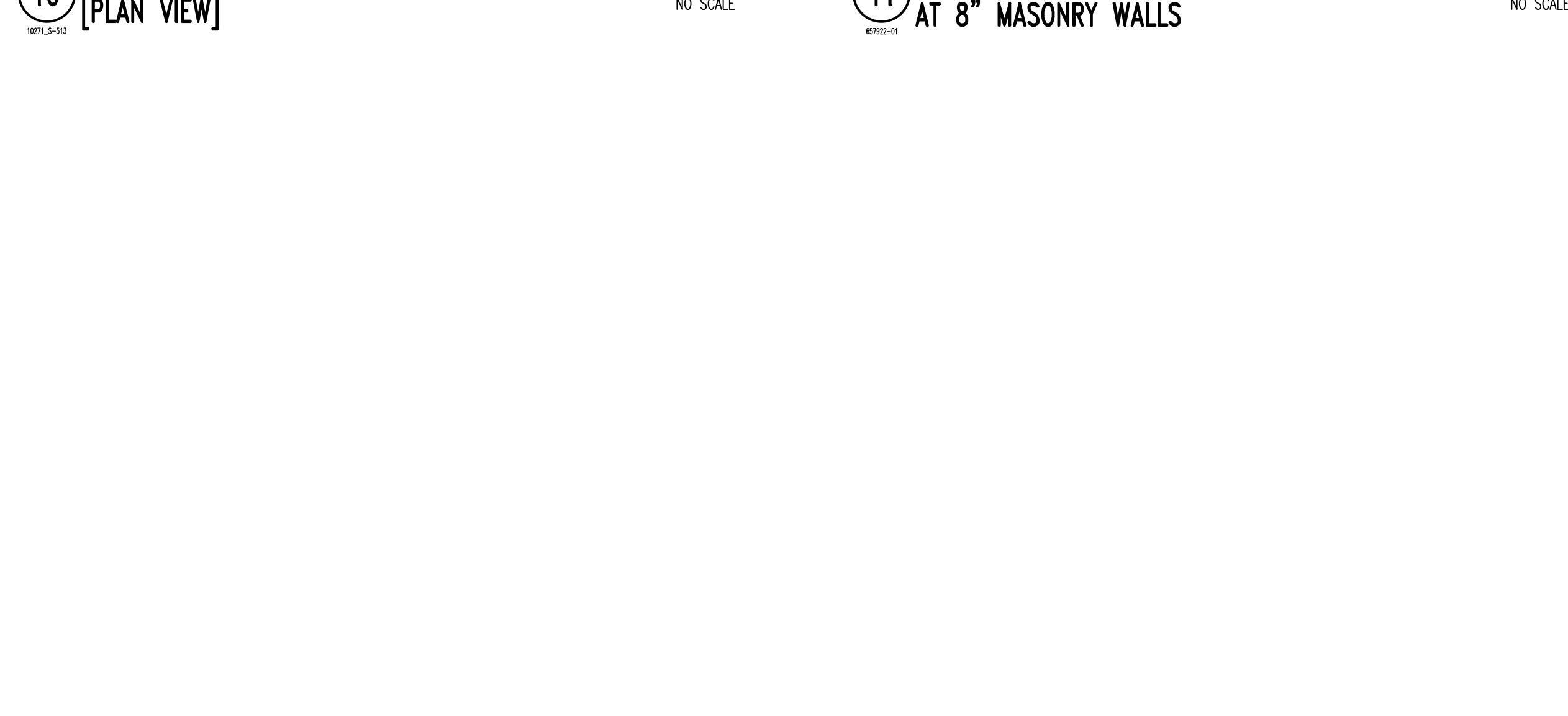
**1 BEARING PLATE SCHEDULE FOR ROOF JOIST/BEAM BEARING AT MASONRY WALLS** NO SCALE



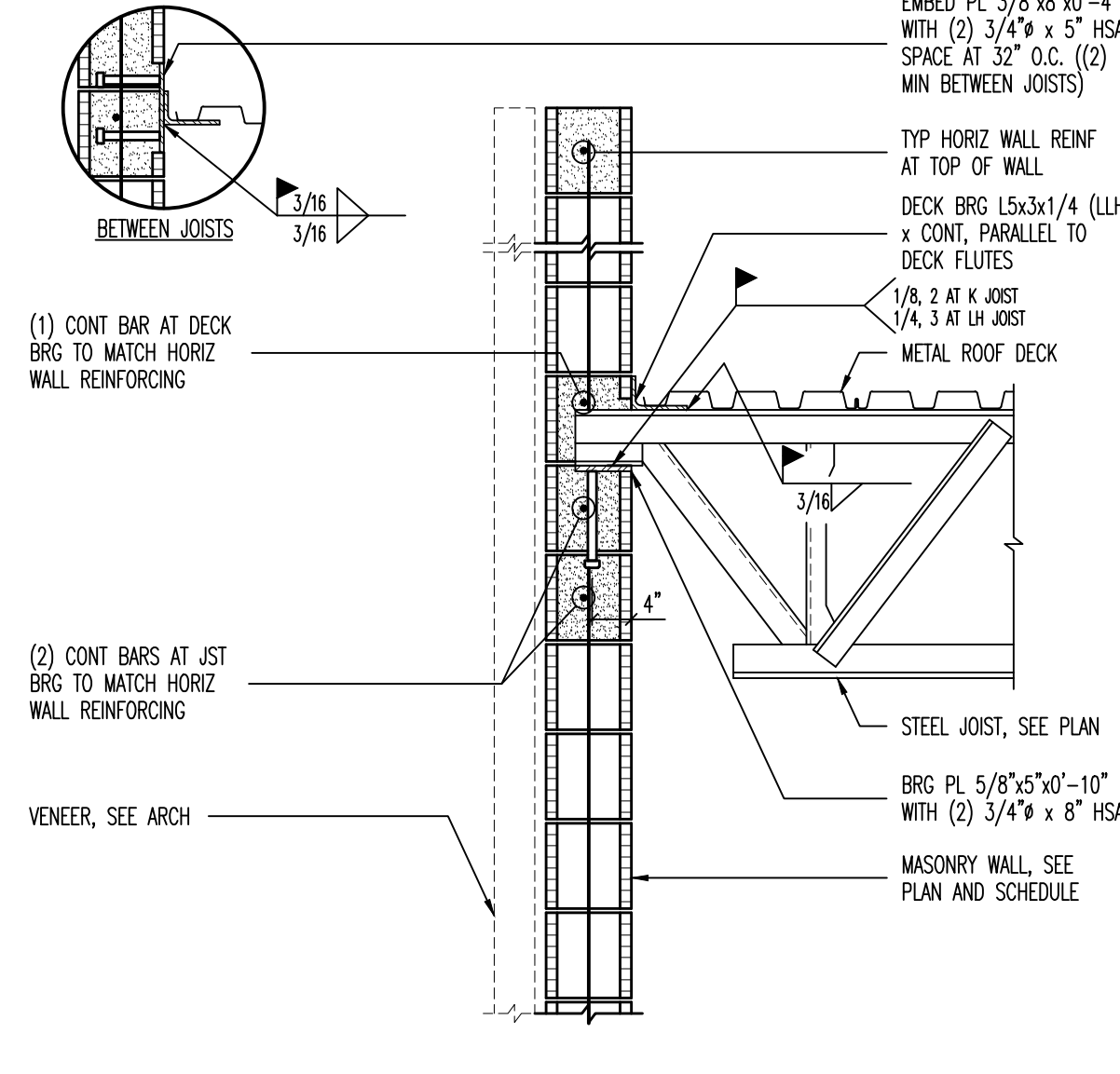
**2 TYPICAL JOIST BEARING AT 8" OR 10" MASONRY WALLS** NO SCALE



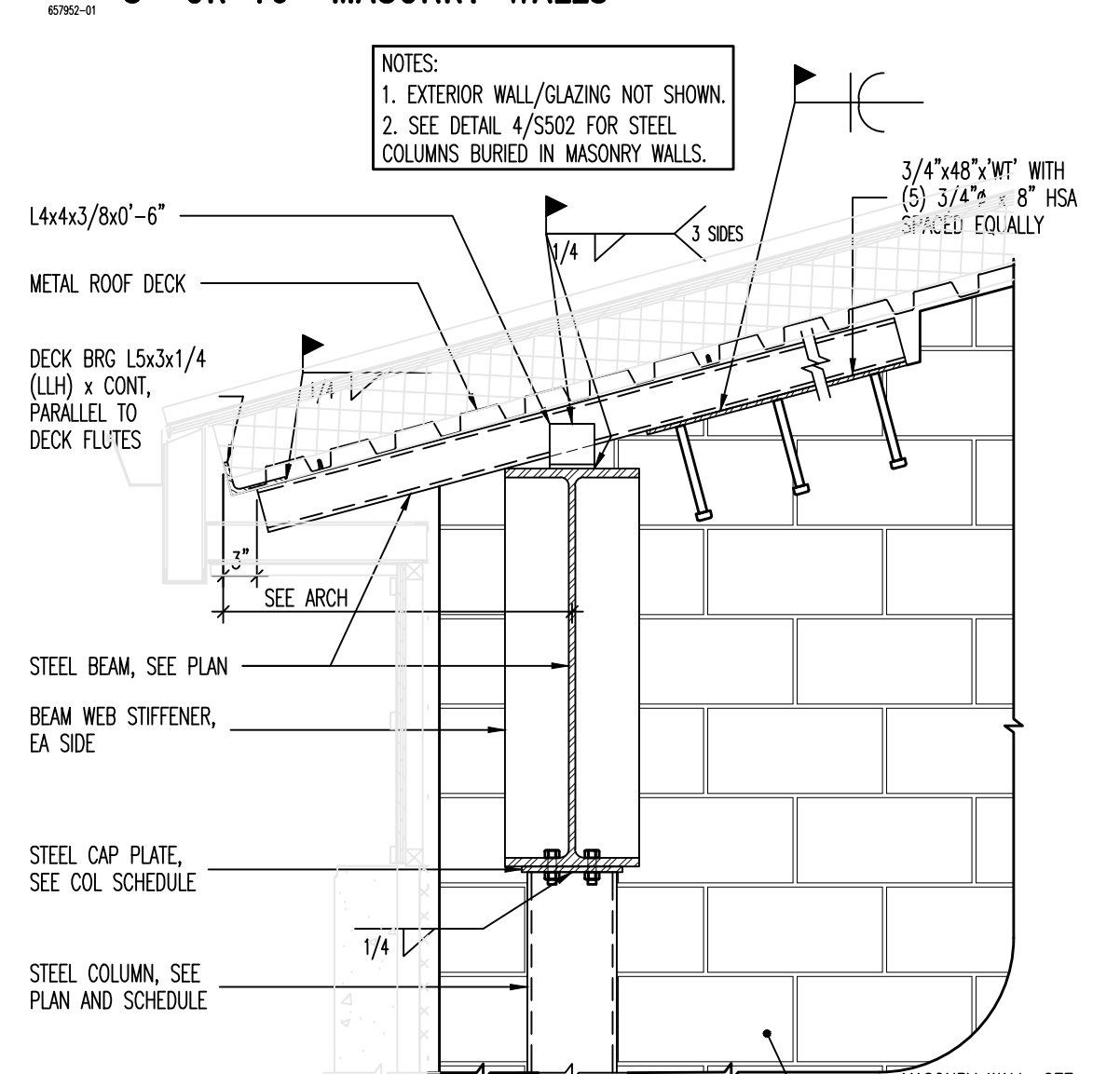
**3 TYPICAL DECK BEARING WITH BRIDGING ATTACHMENT AT 8" OR 10" MASONRY WALLS** NO SCALE



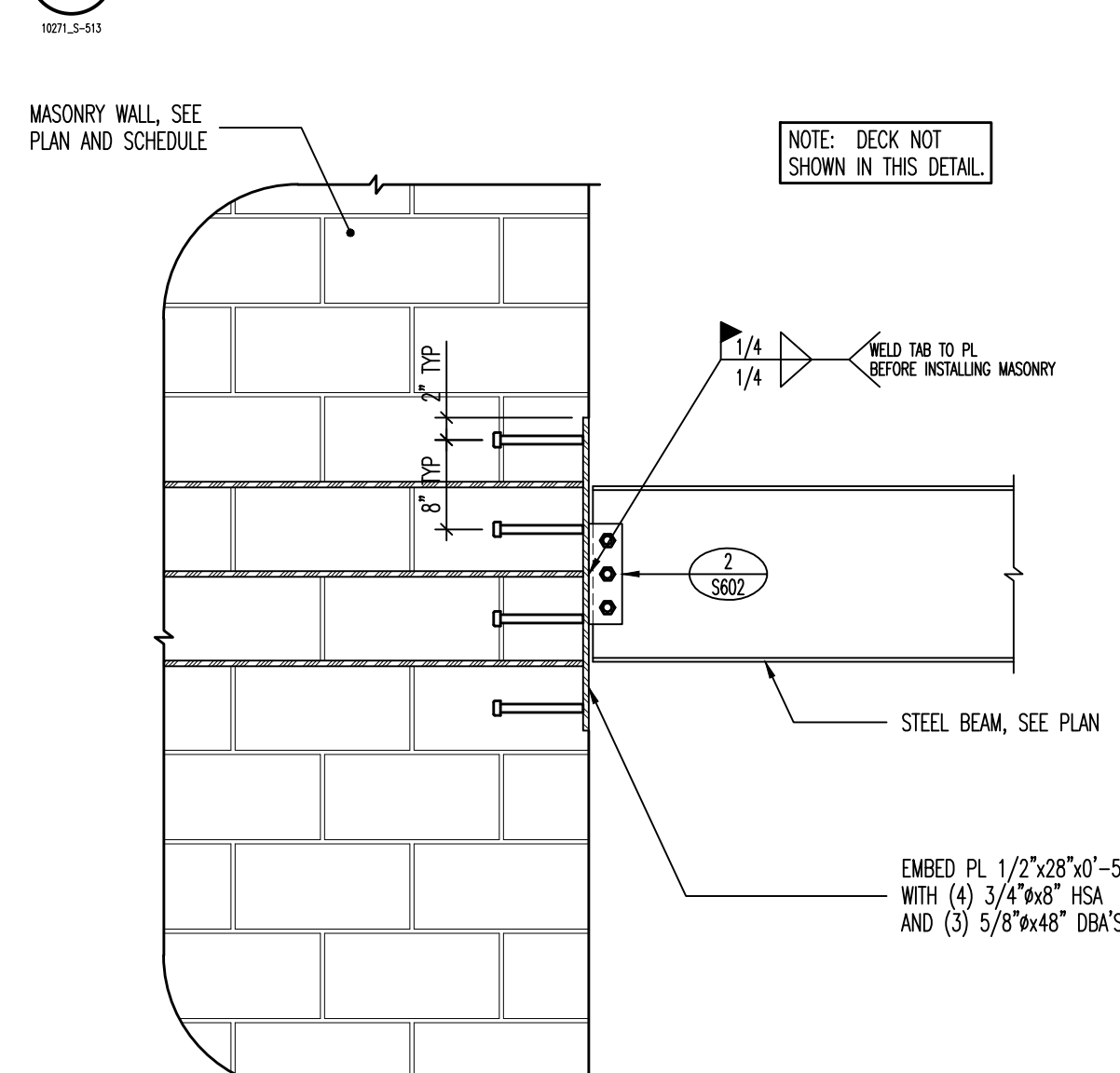
**4 TYPICAL JOIST BEARING AT 8" OR 10" MASONRY WALLS** NO SCALE



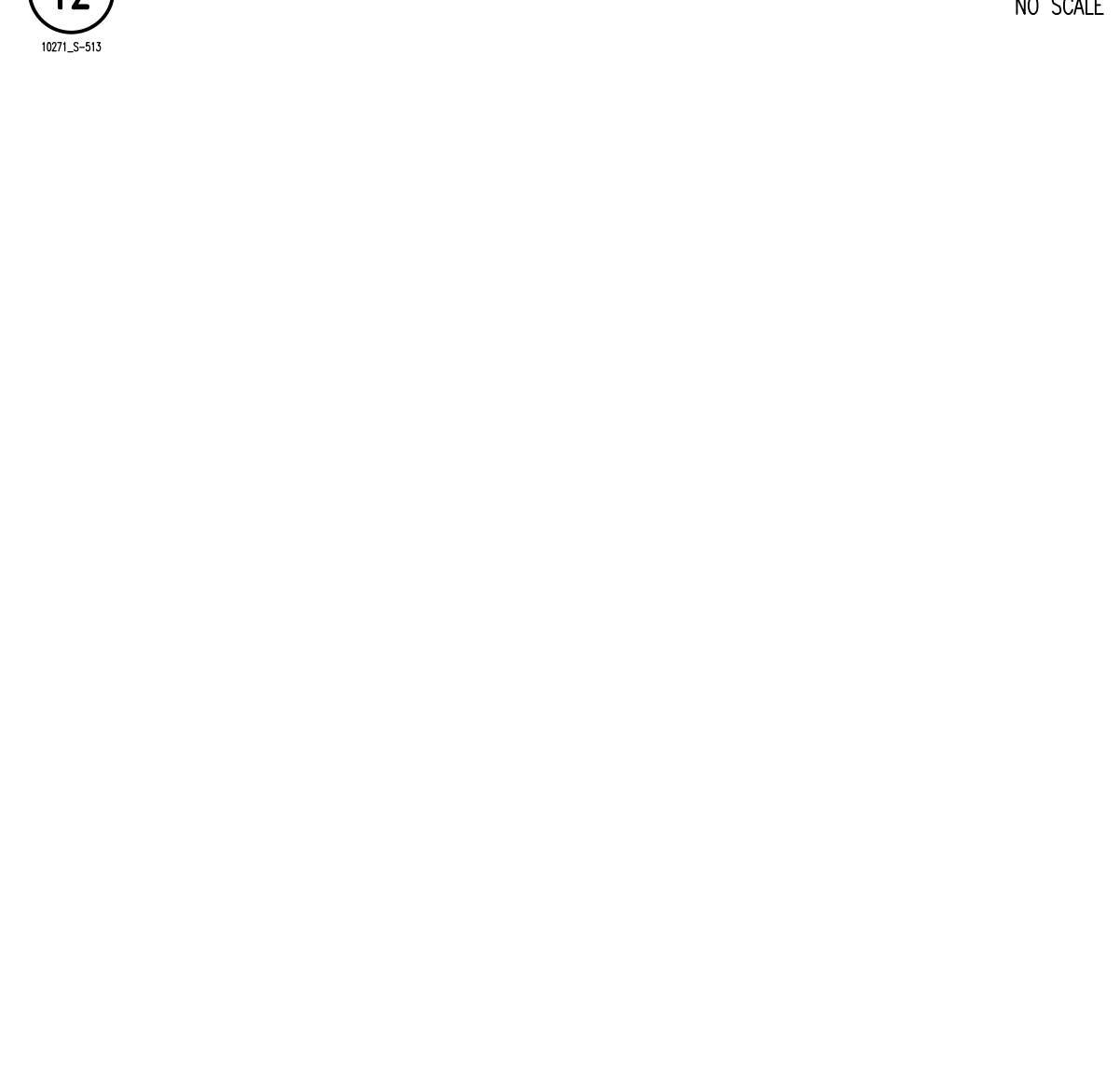
**5 STEEL BEAM BEARING AT STEEL BEAM DETAIL** NO SCALE



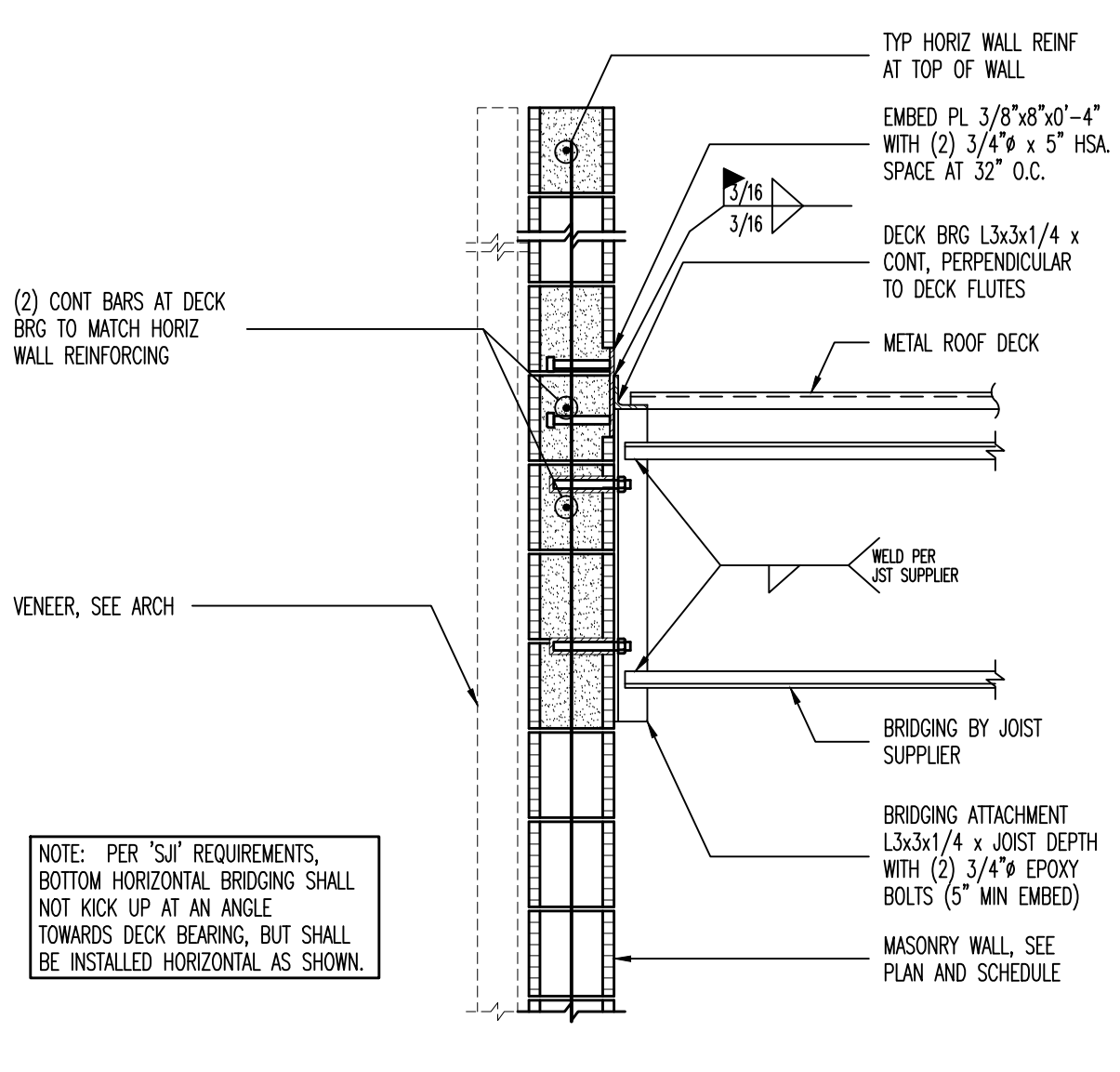
**6 STEEL BEAM BEARING AT MASONRY WALL DETAIL** NO SCALE



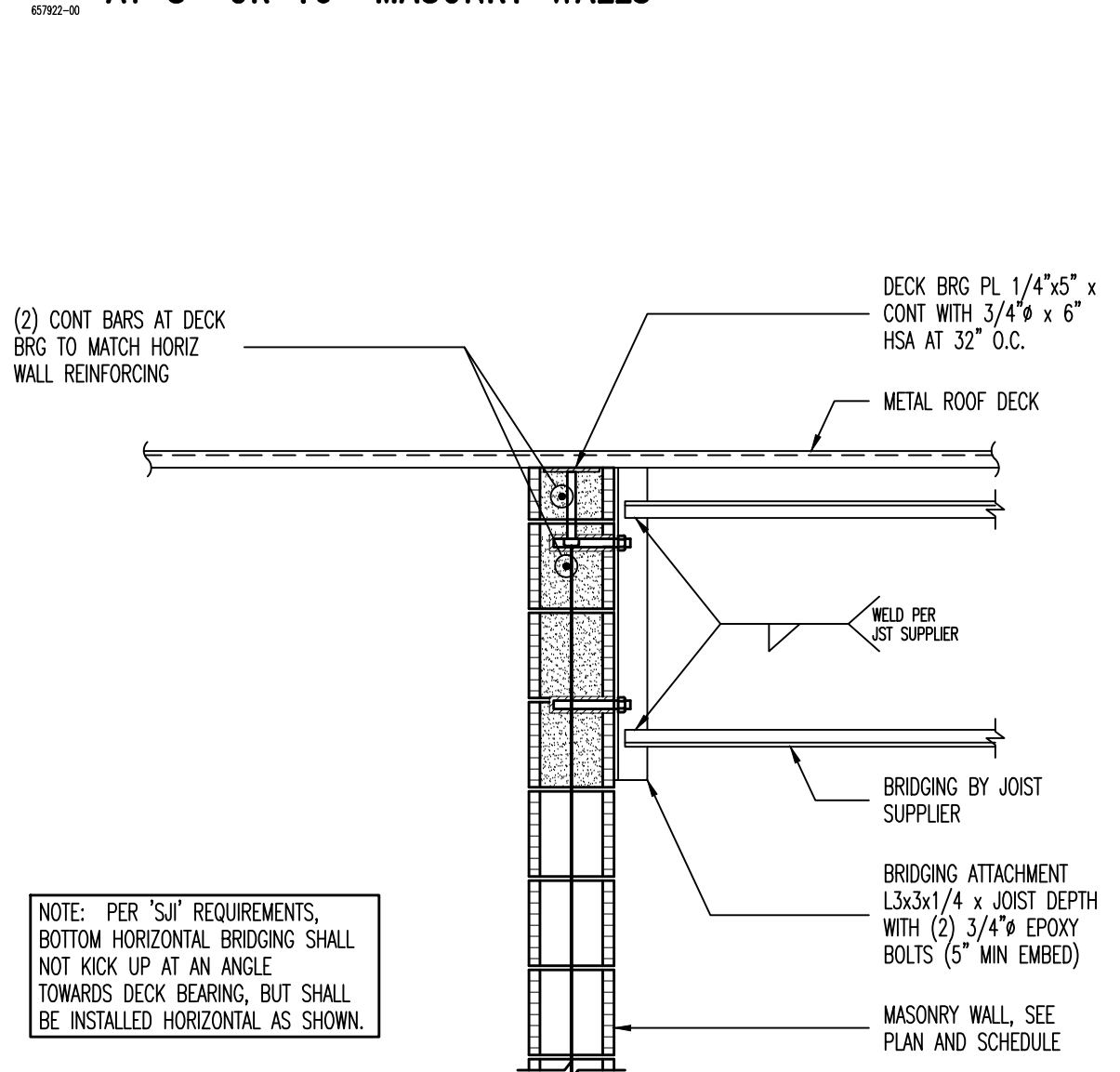
**7 STEEL BEAM BEARING AT MASONRY WALL DETAIL** NO SCALE



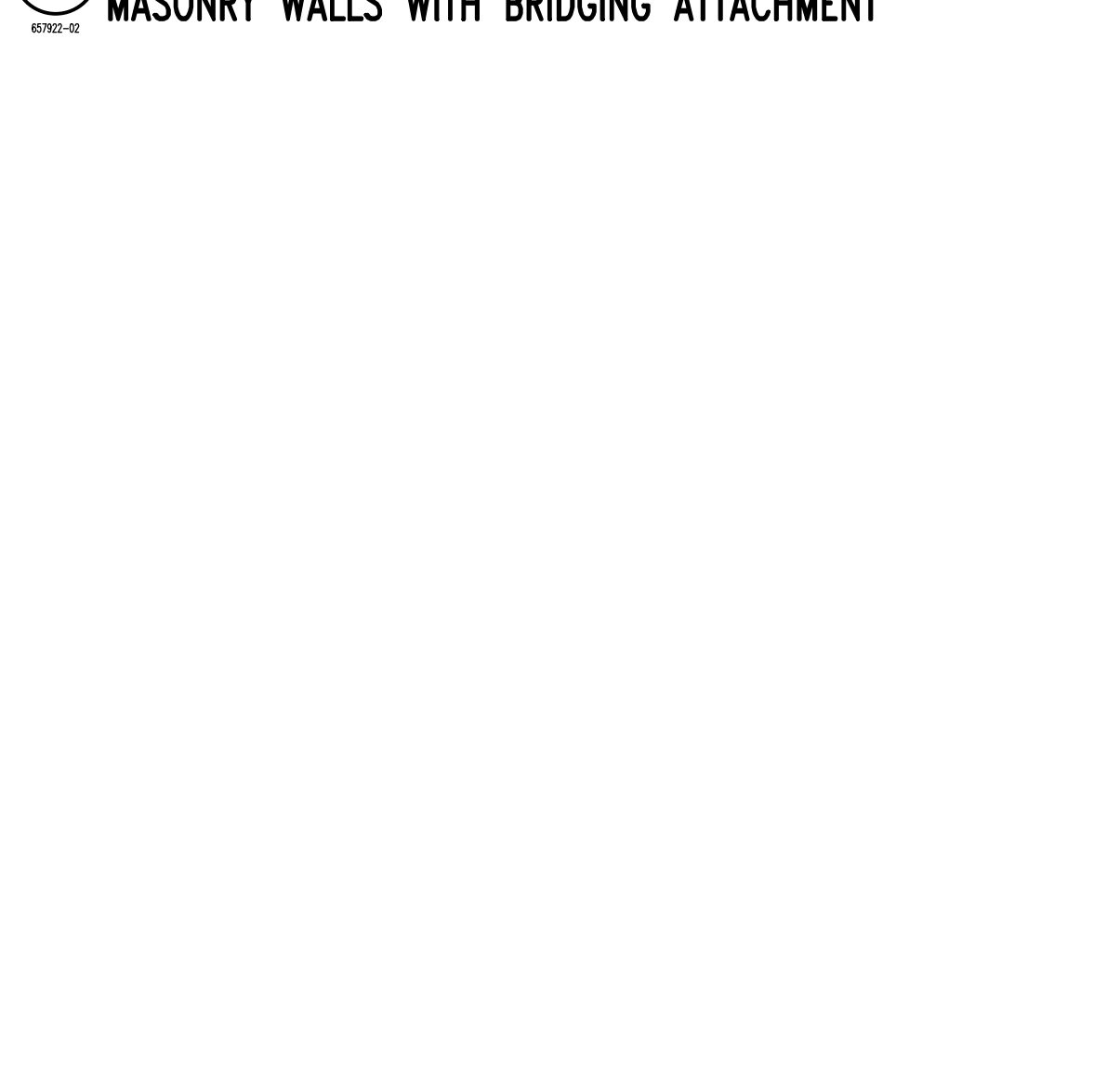
**8 TYPICAL DECK BEARING AT 8" MASONRY WALLS WITH BRIDGING ATTACHMENT** NO SCALE



**9 STEEL BEAM BEARING AT MASONRY WALL** NO SCALE



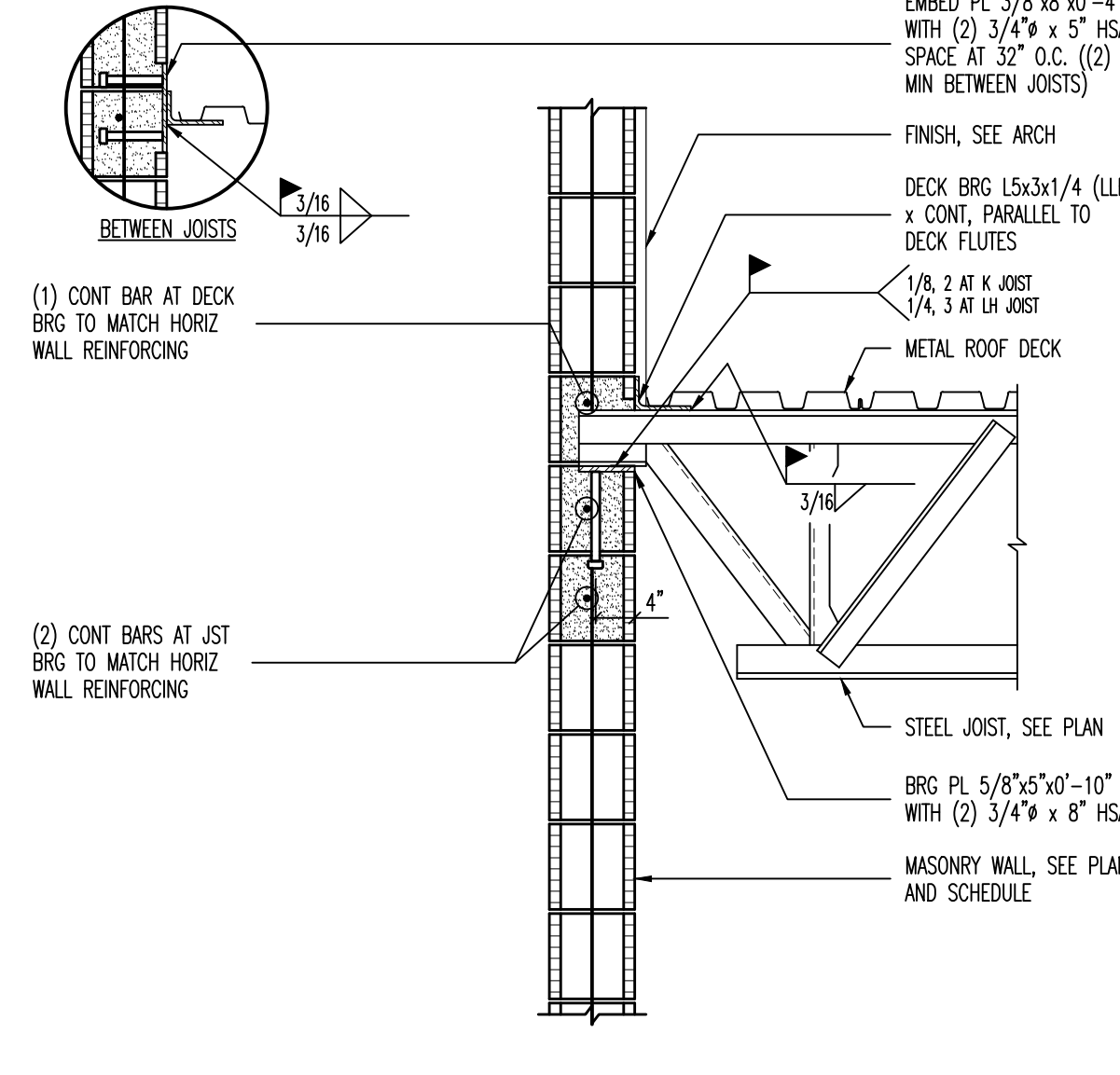
**10 STEEL BEAM BEARING ON MASONRY DETAIL [PLAN VIEW]** NO SCALE



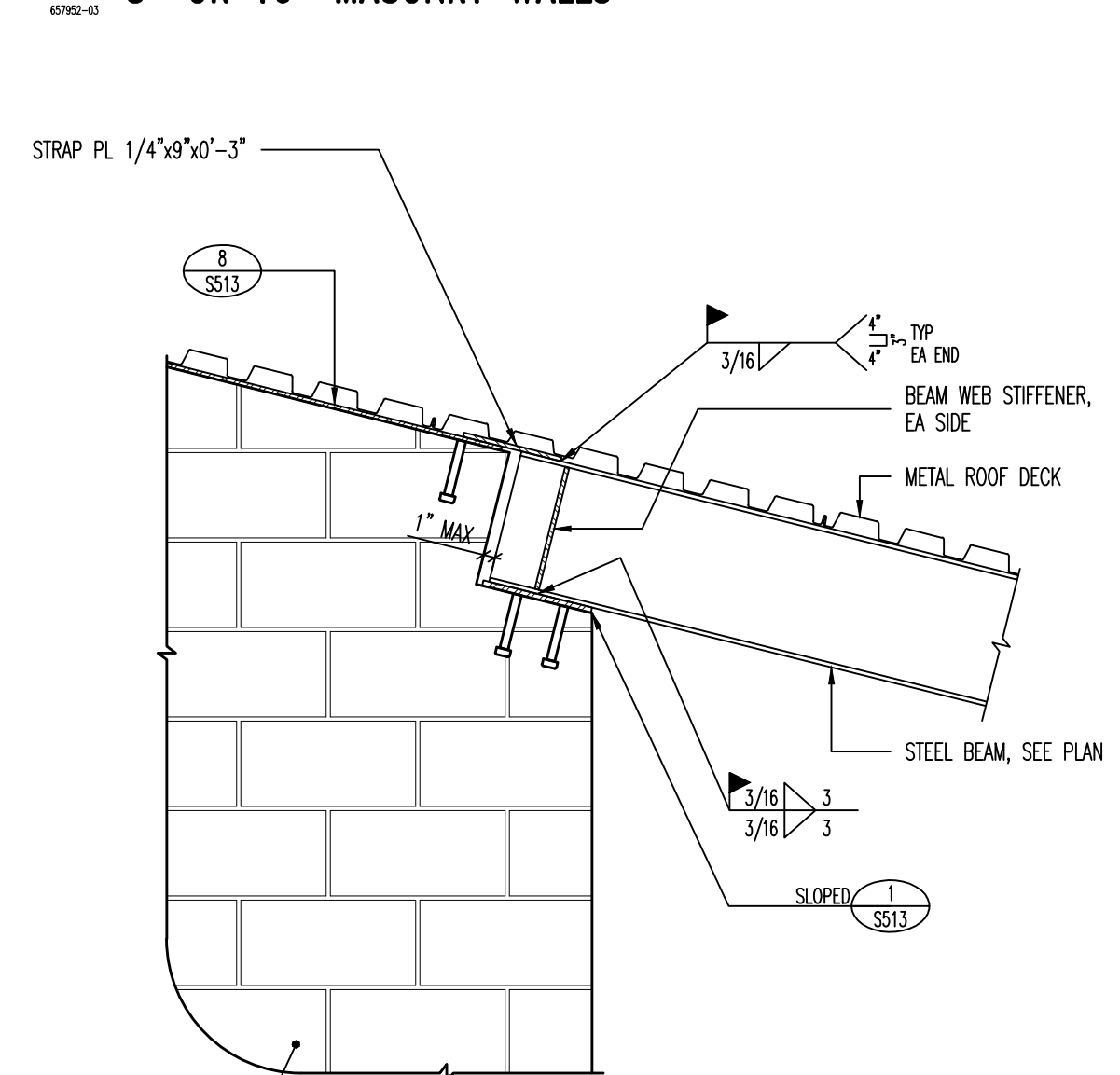
**11 TYPICAL DECK BEARING WITH BRIDGING ATTACHMENT AT 8" MASONRY WALLS** NO SCALE



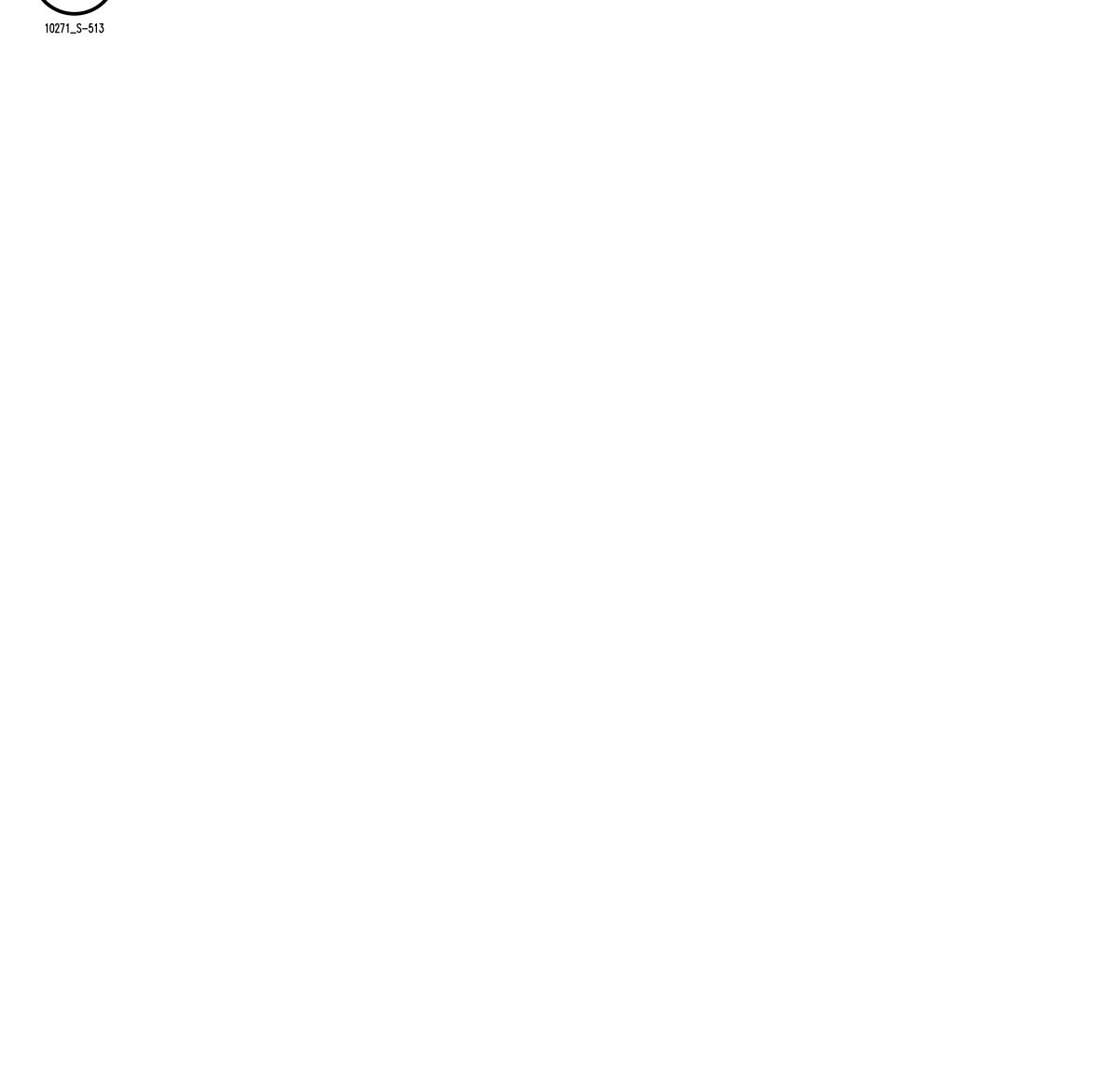
**12 STEEL BEAM CONNECTION TO EMBED PLATE DETAIL** NO SCALE



**13 STEEL BEAM BEARING AT MASONRY WALL** NO SCALE



**14 STEEL BEAM BEARING AT MASONRY WALL** NO SCALE



**15 STEEL BEAM BEARING AT MASONRY WALL** NO SCALE

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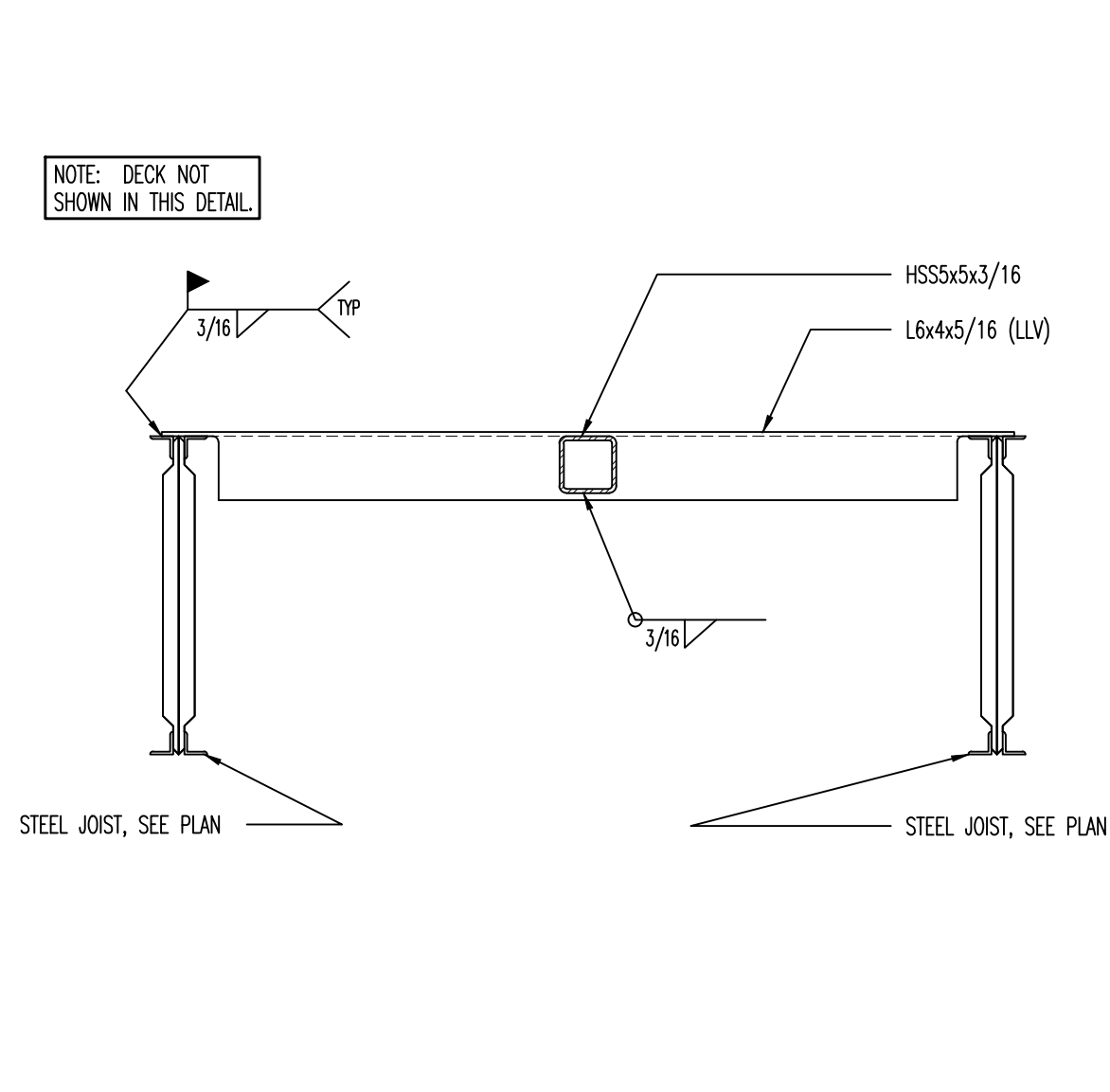
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ROOF  
FRAMING  
DETAILS

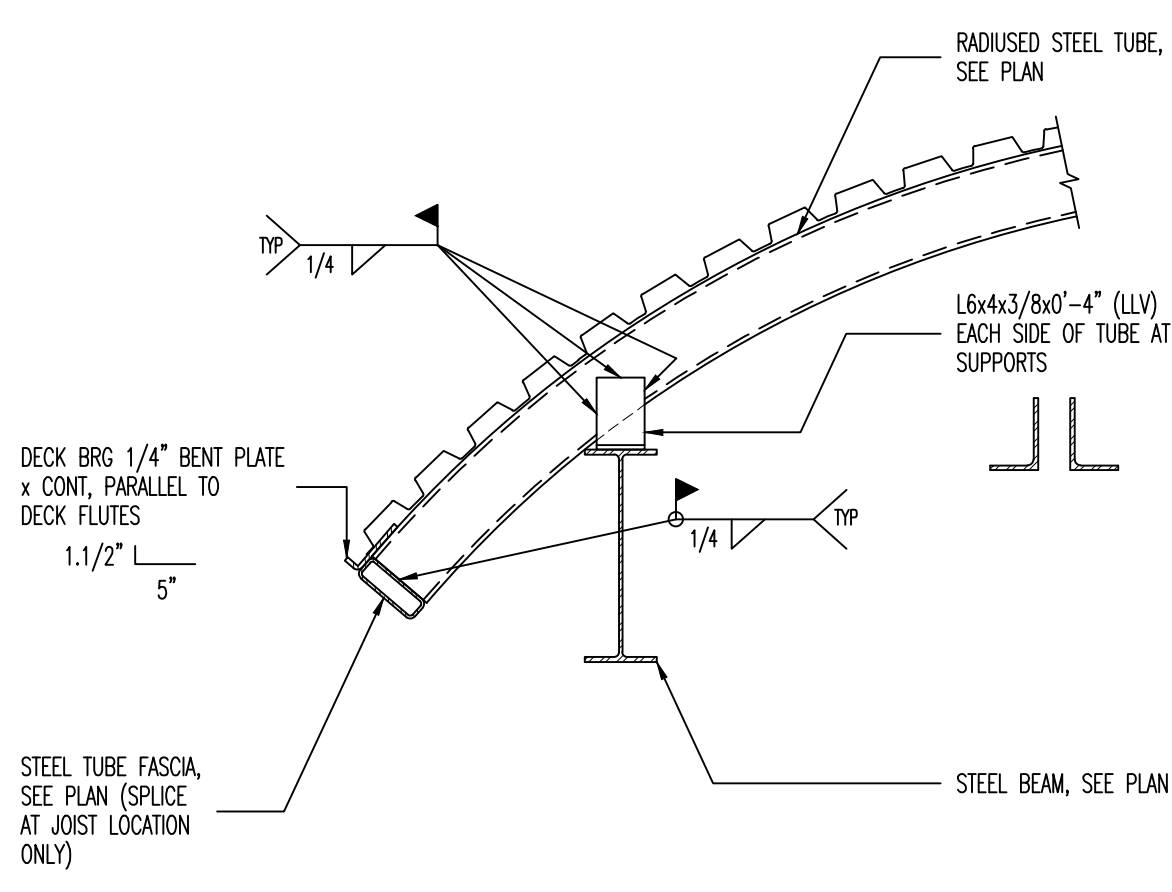
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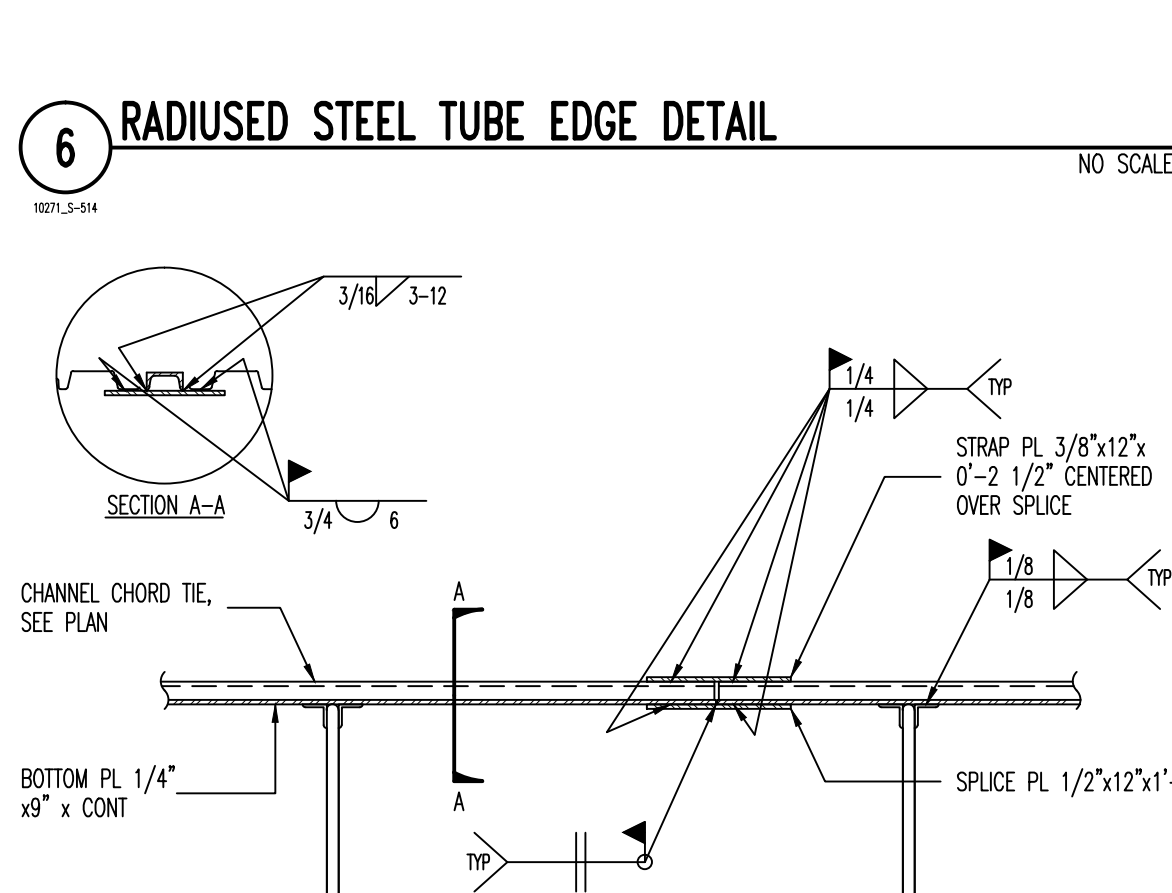




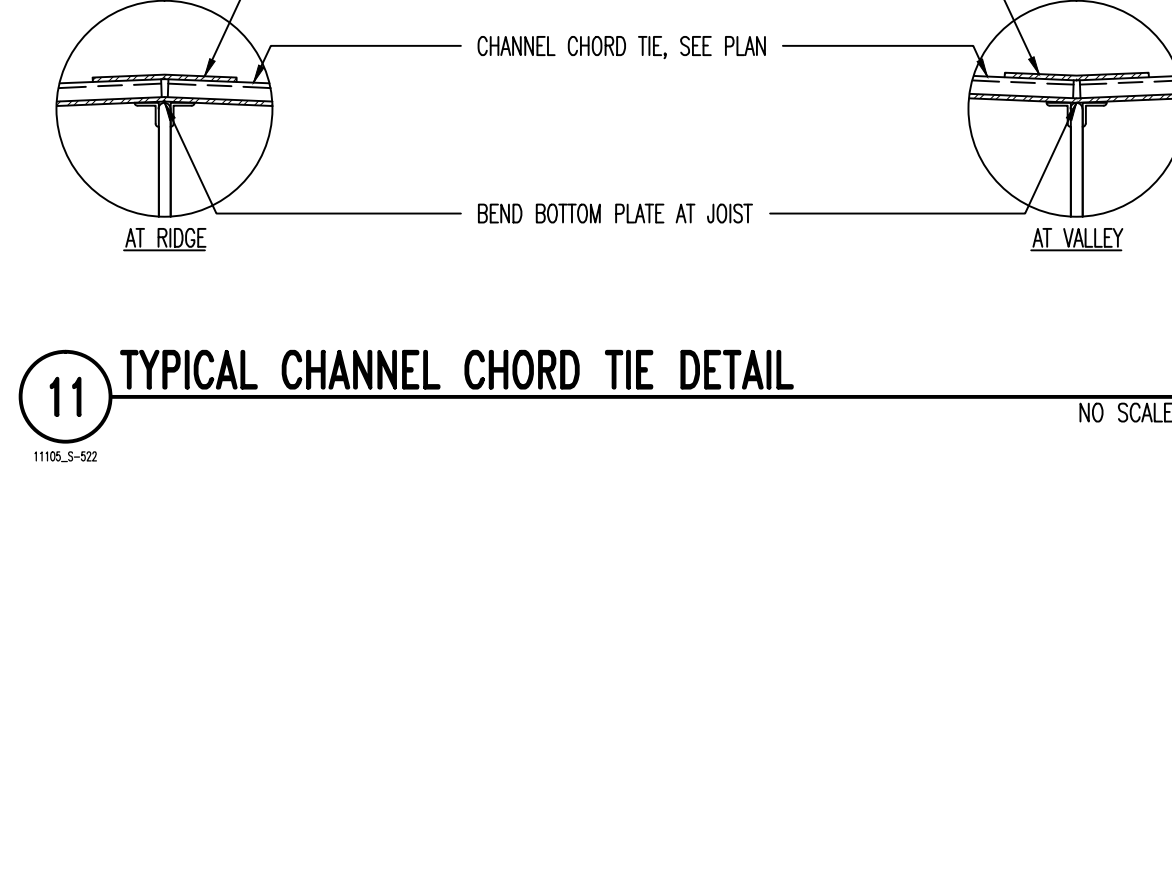
**1 DETAIL** NO SCALE



**2 STEEL TUBE/BEAM CONNECTION DETAIL AT STEEL JOIST** NO SCALE



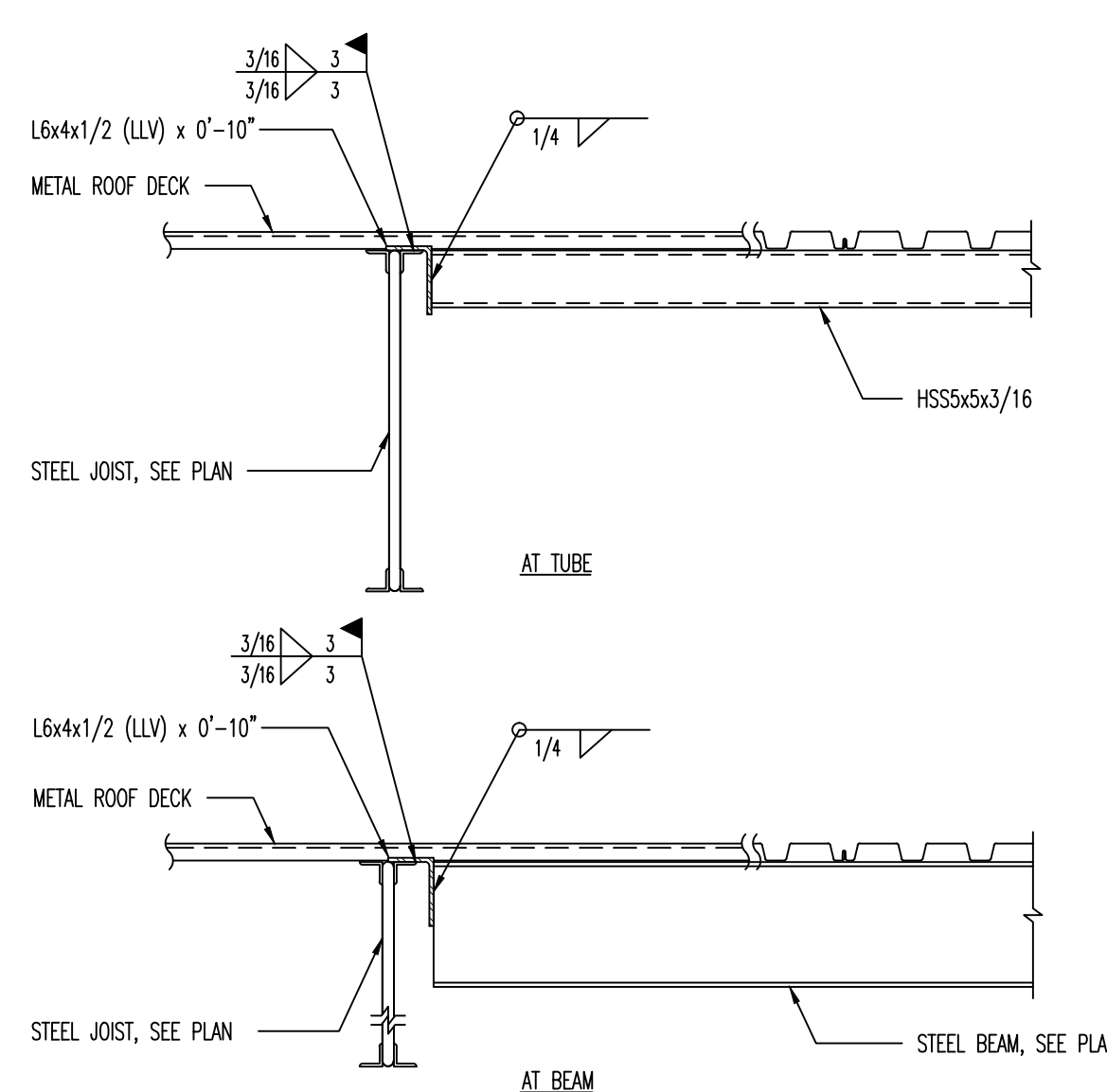
**3 STEEL TUBE TO COLUMN CONNECTION DETAIL** NO SCALE



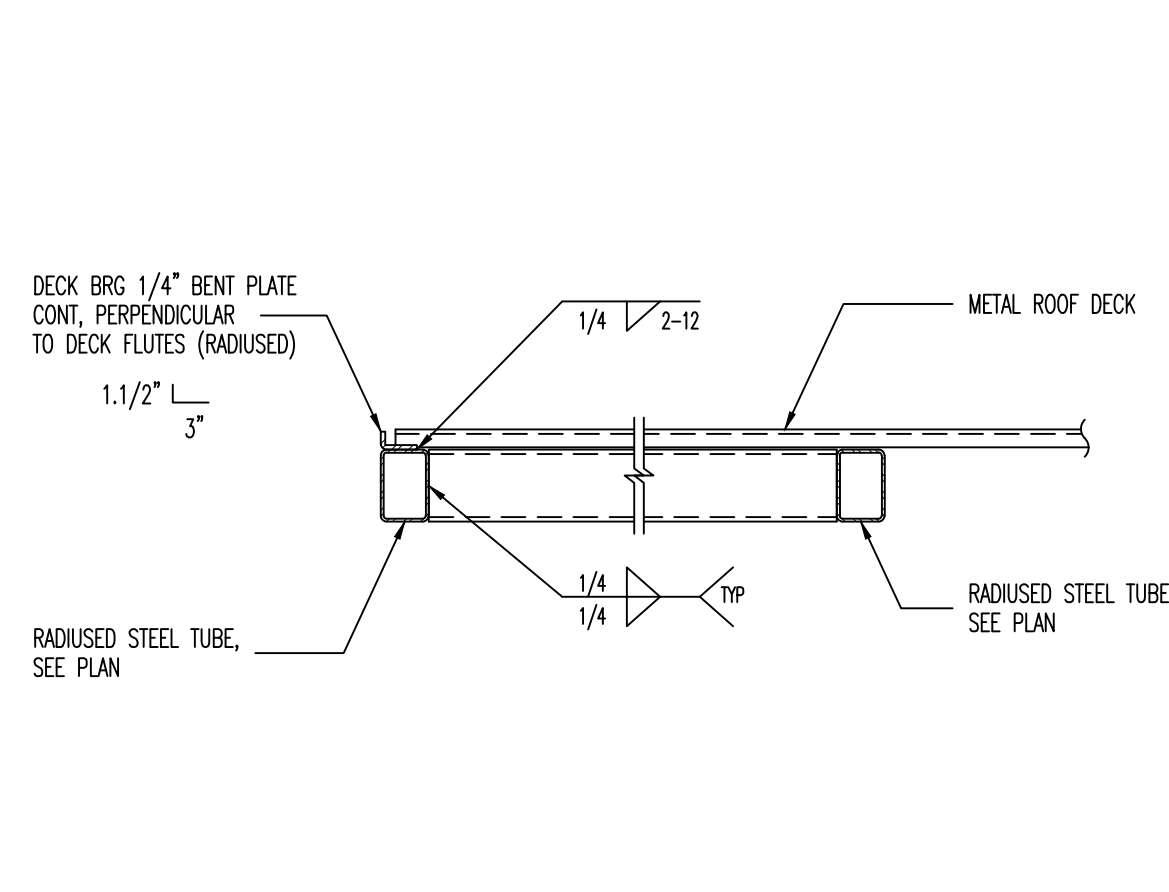
**4 TYPICAL VENEER LEDGER DETAIL AT MASONRY LINTEL** NO SCALE



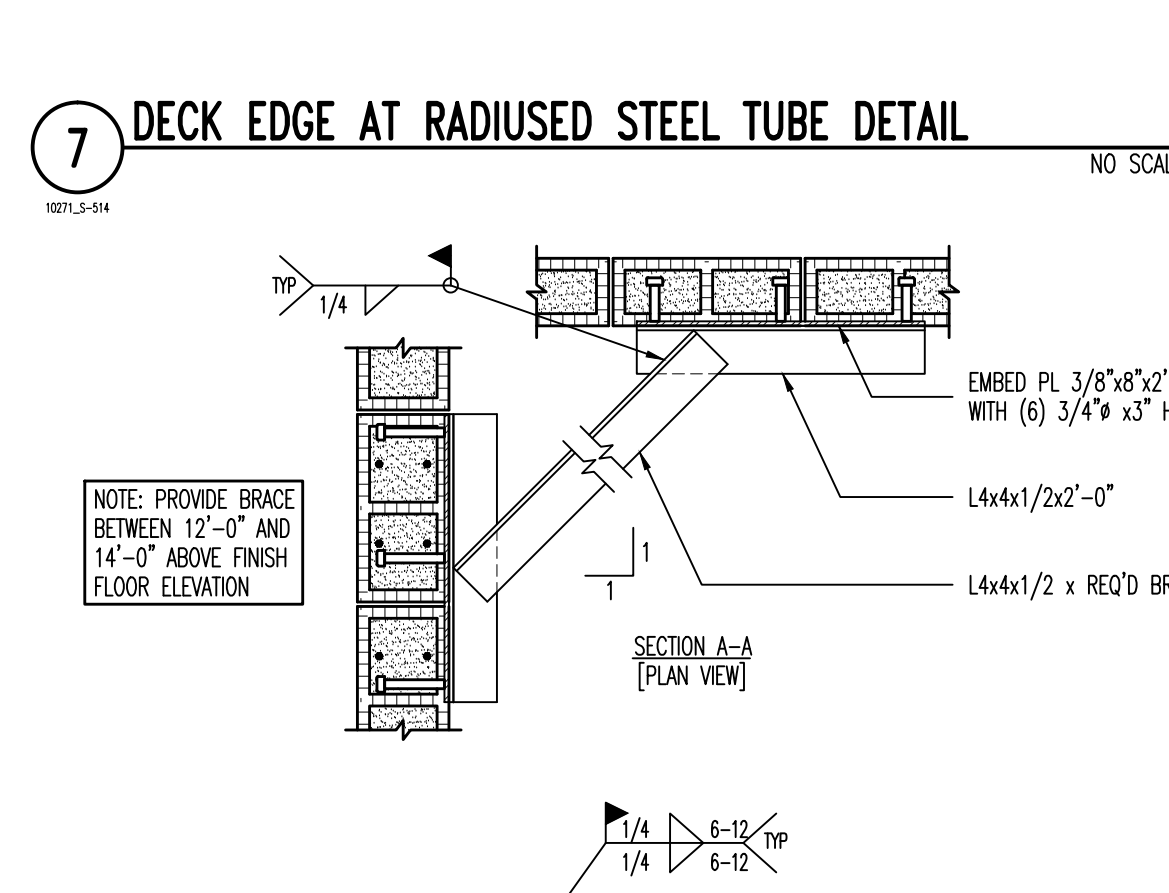
**5 ROOF OVERBUILD DETAIL** NO SCALE



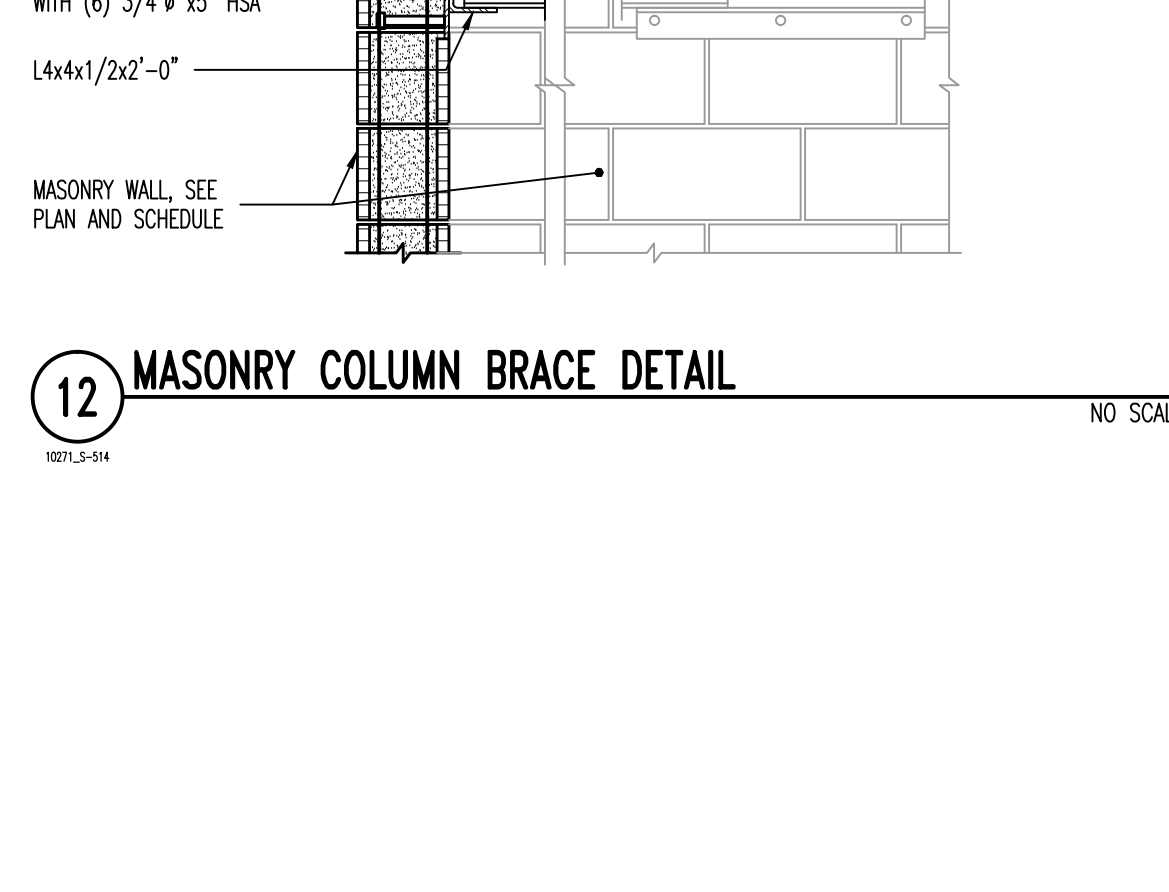
**6 RADIUSSED STEEL TUBE EDGE DETAIL** NO SCALE



**7 DECK EDGE AT RADIUSSED STEEL TUBE DETAIL** NO SCALE



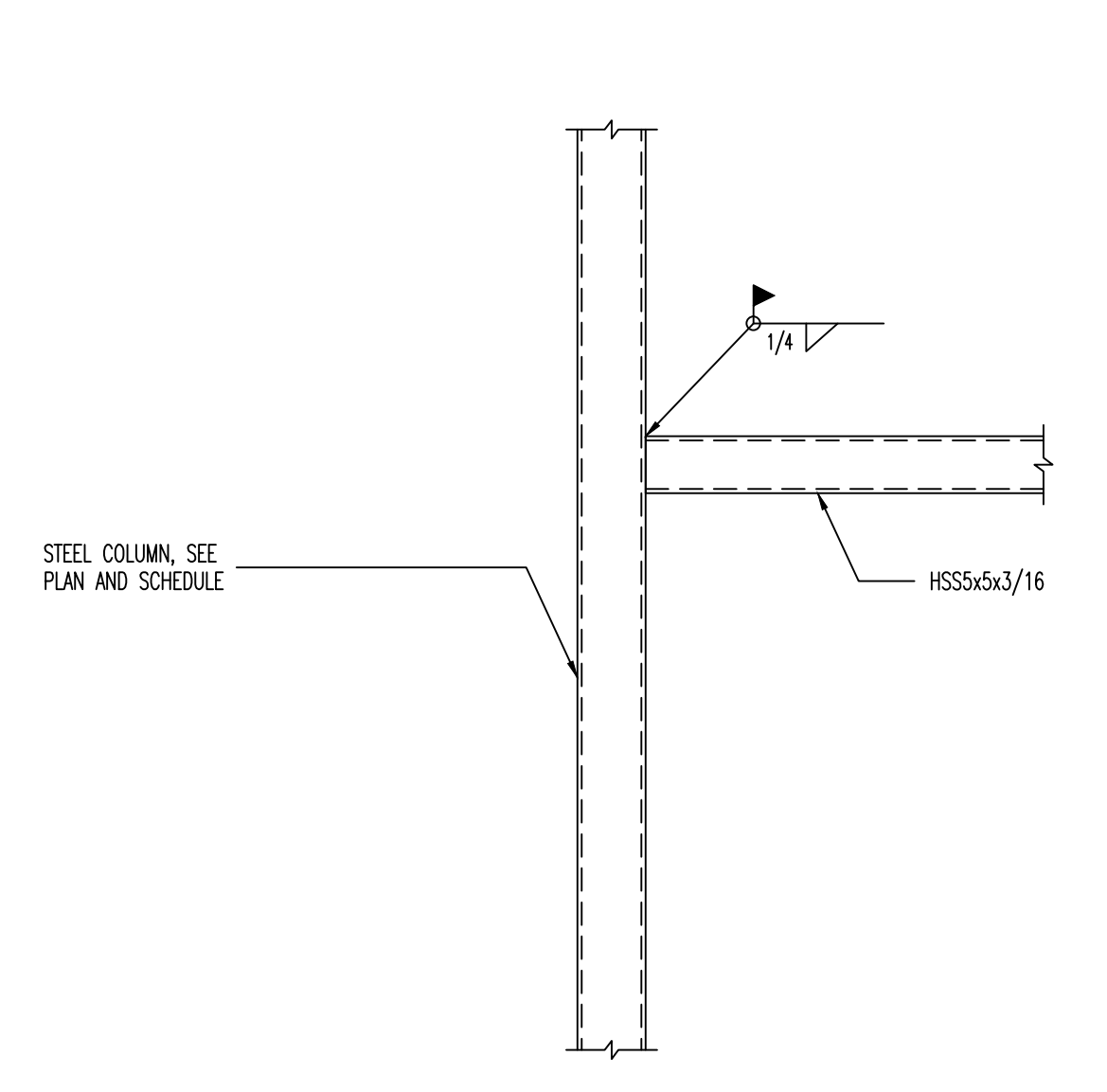
**8 DECK EDGE AT RADIUSSED STEEL TUBE DETAIL** NO SCALE



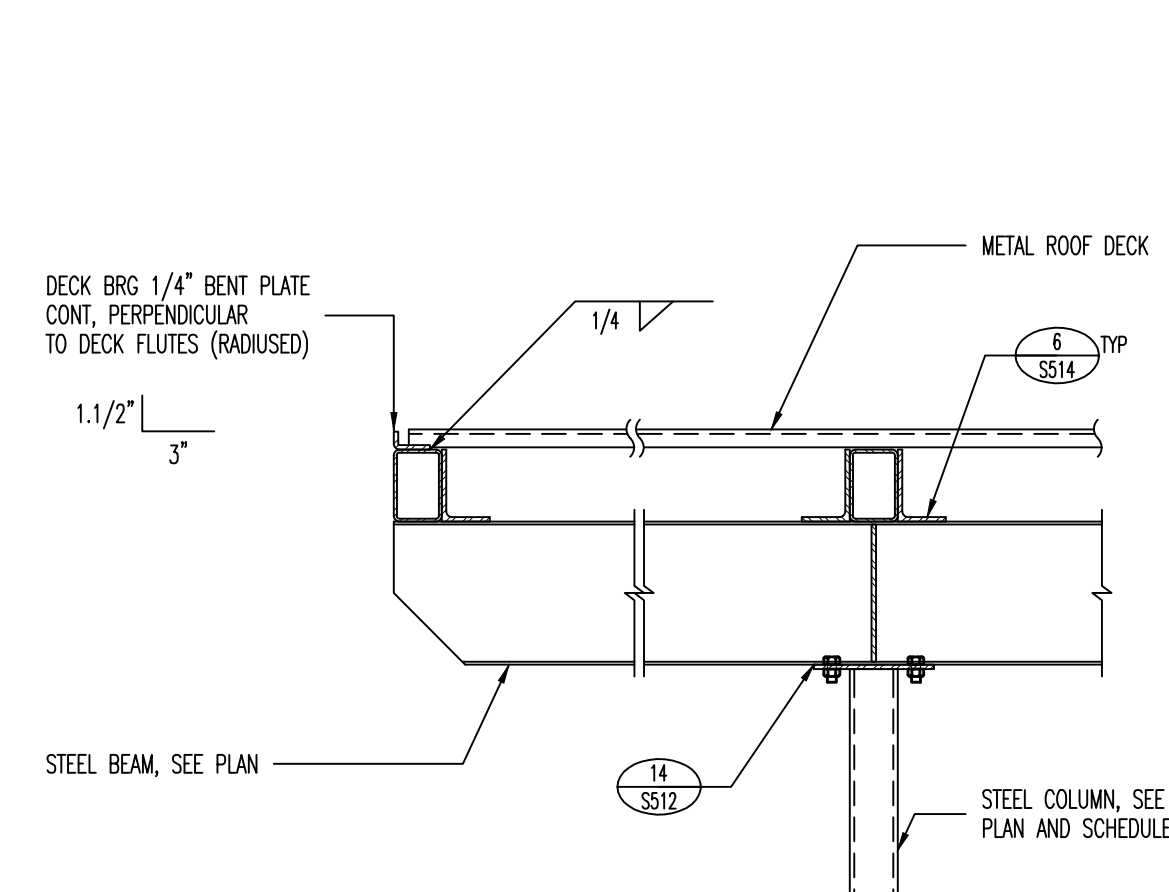
**9 STEEL BEAM TO TRUSS CONNECTION DETAIL [PLAN VIEW]** NO SCALE



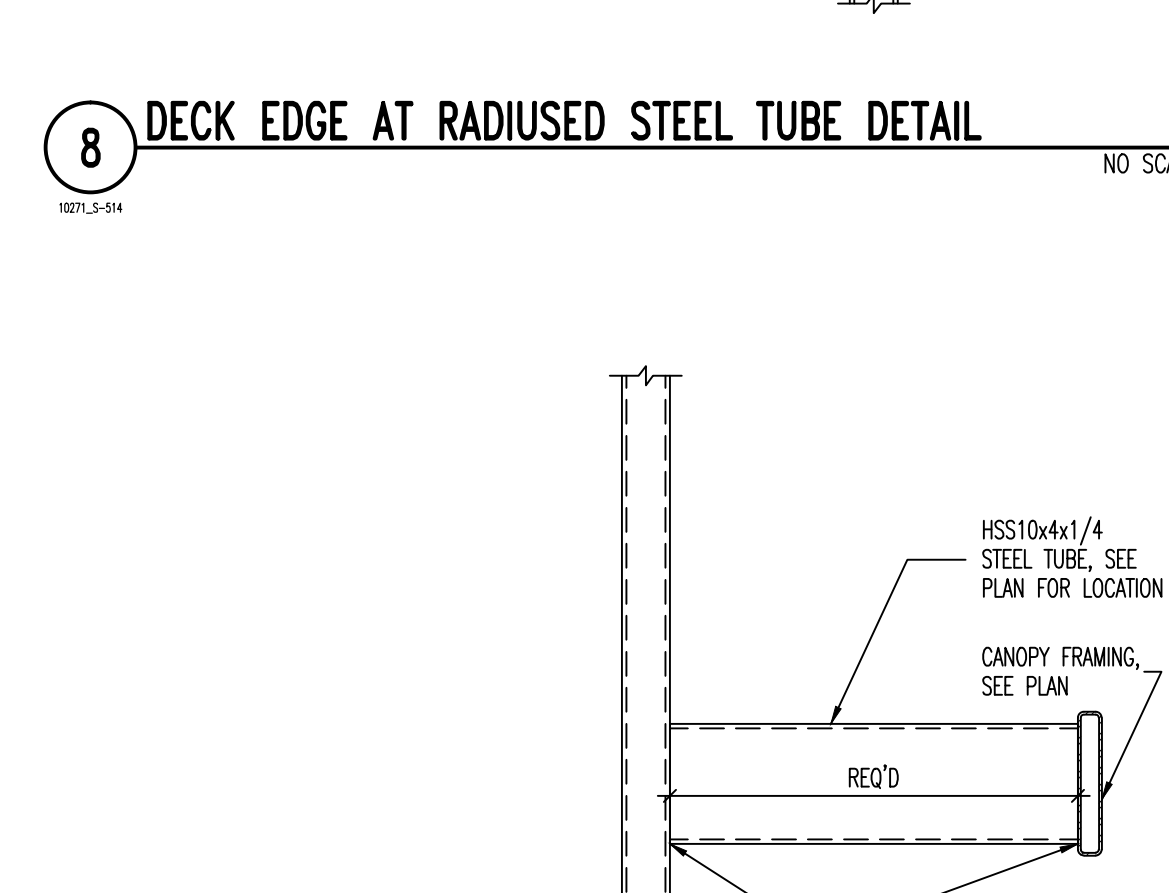
**10 JOIST BEARING AT STEEL BEAM DETAIL** NO SCALE



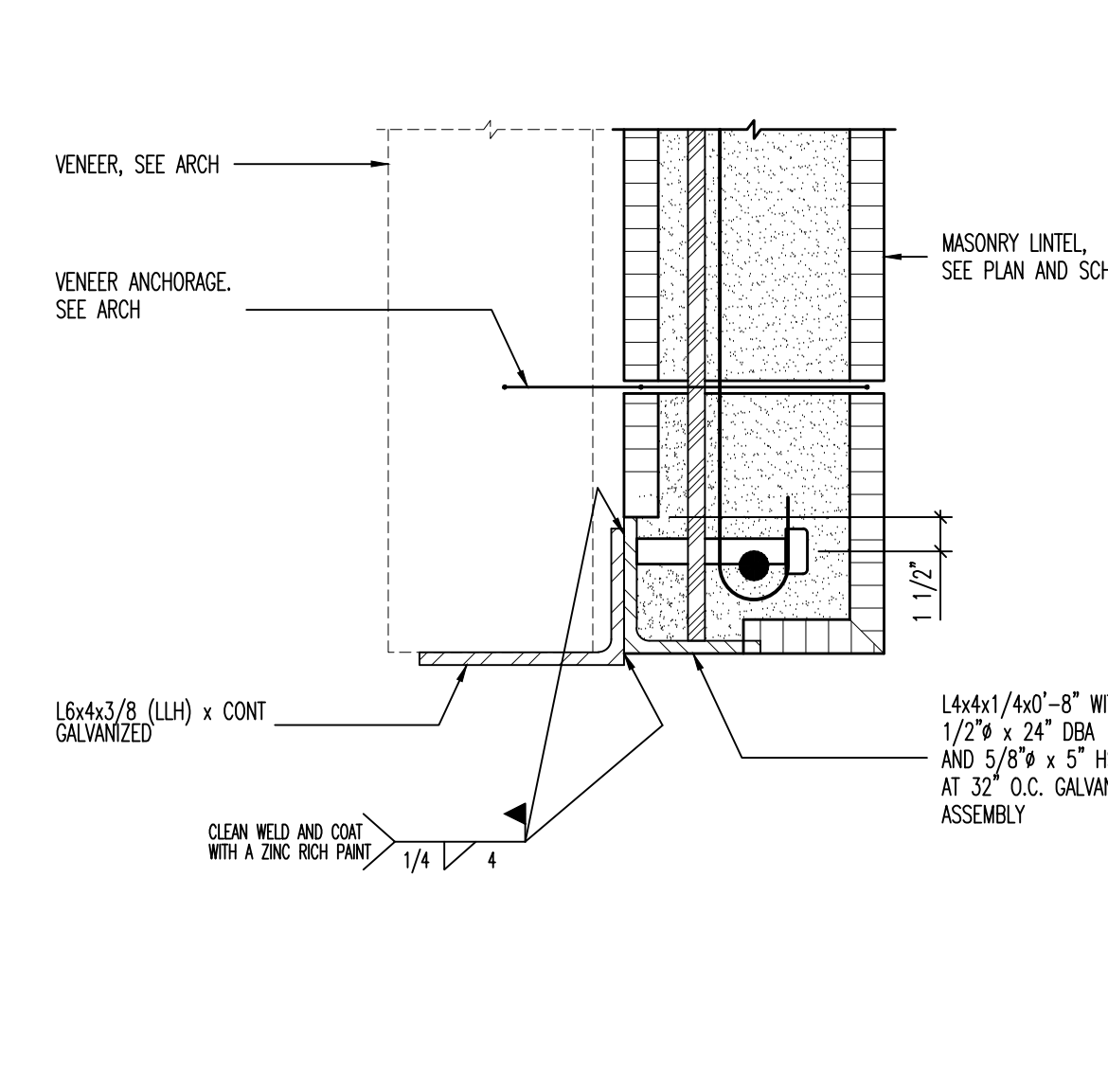
**11 TYPICAL CHANNEL CHORD TIE DETAIL** NO SCALE



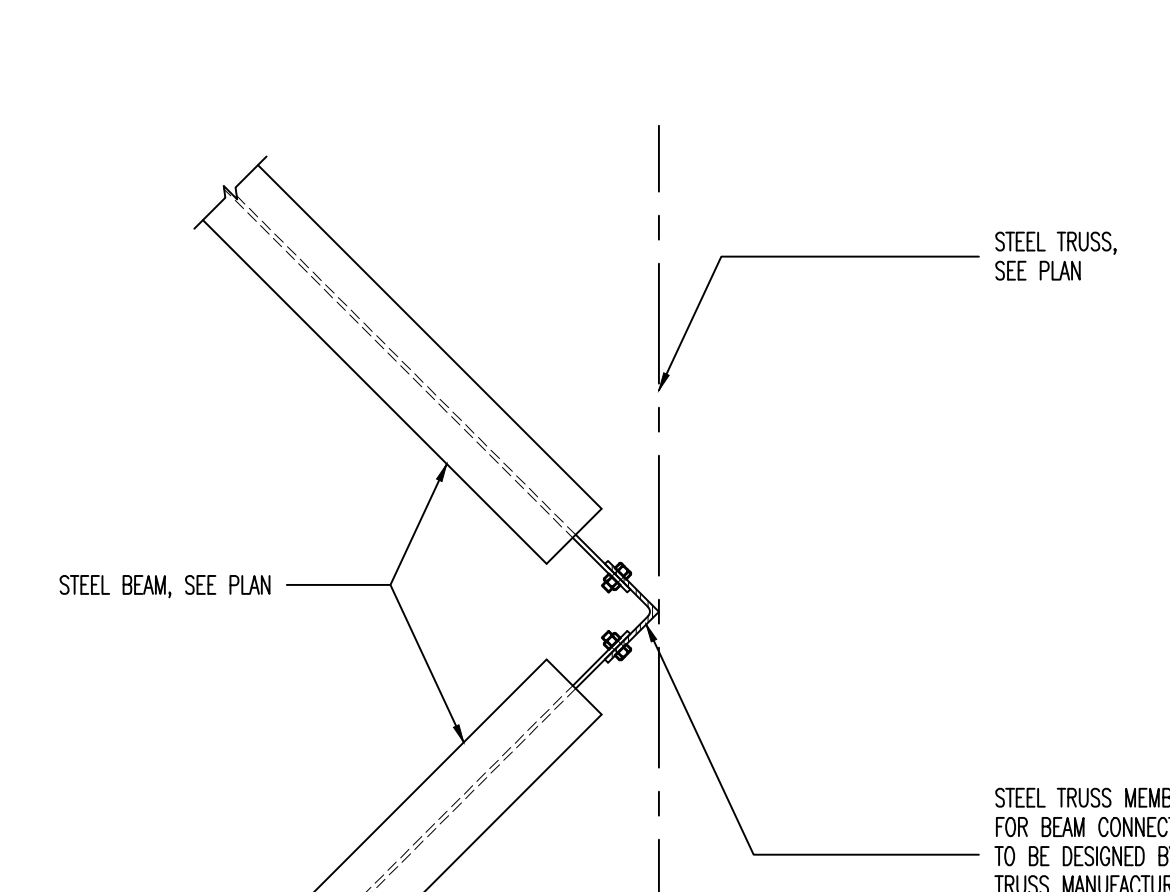
**12 MASONRY COLUMN BRACE DETAIL** NO SCALE



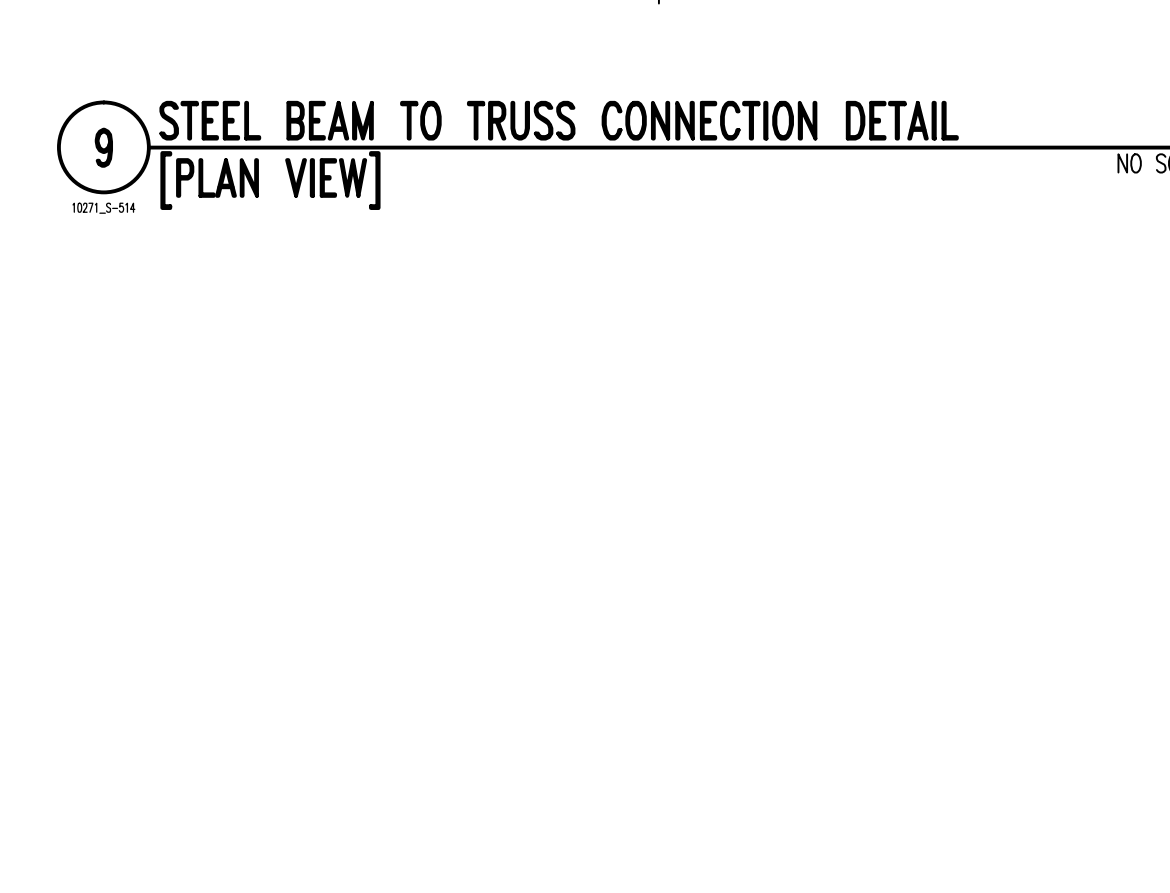
**13 CANOPY SUPPORT DETAIL** NO SCALE



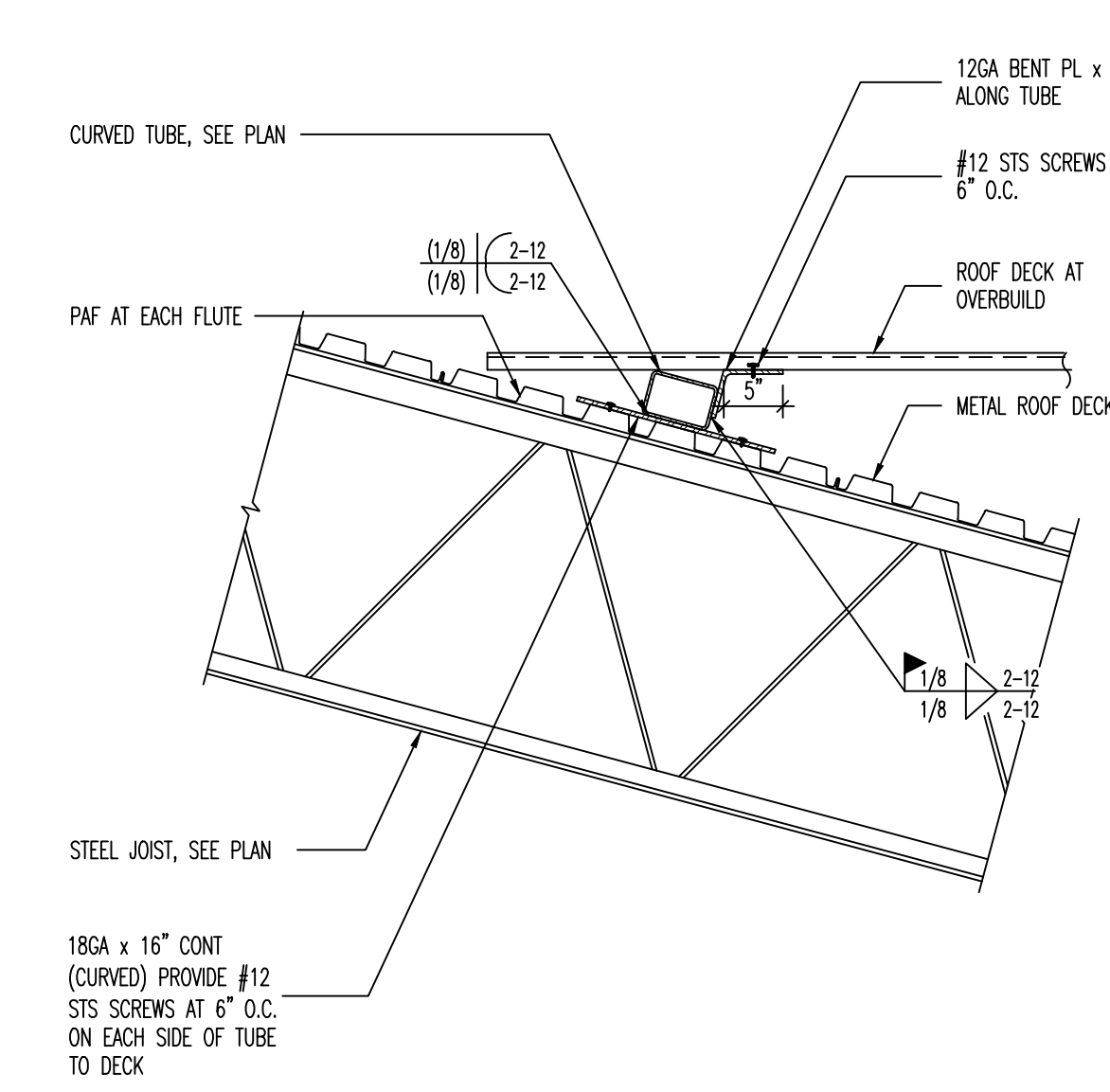
**14 DECK EDGE AT RADIUSSED STEEL TUBE DETAIL** NO SCALE



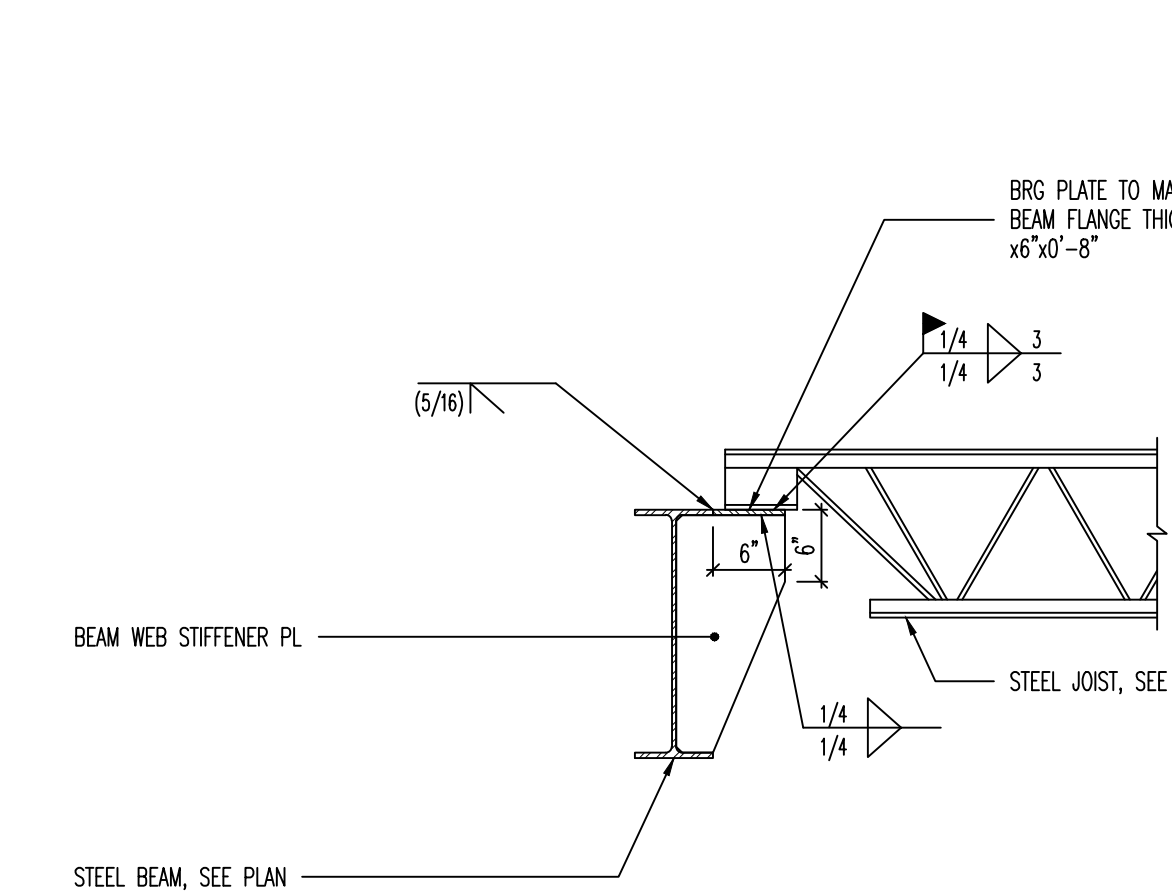
**15 STEEL BEAM TO TRUSS CONNECTION DETAIL [PLAN VIEW]** NO SCALE



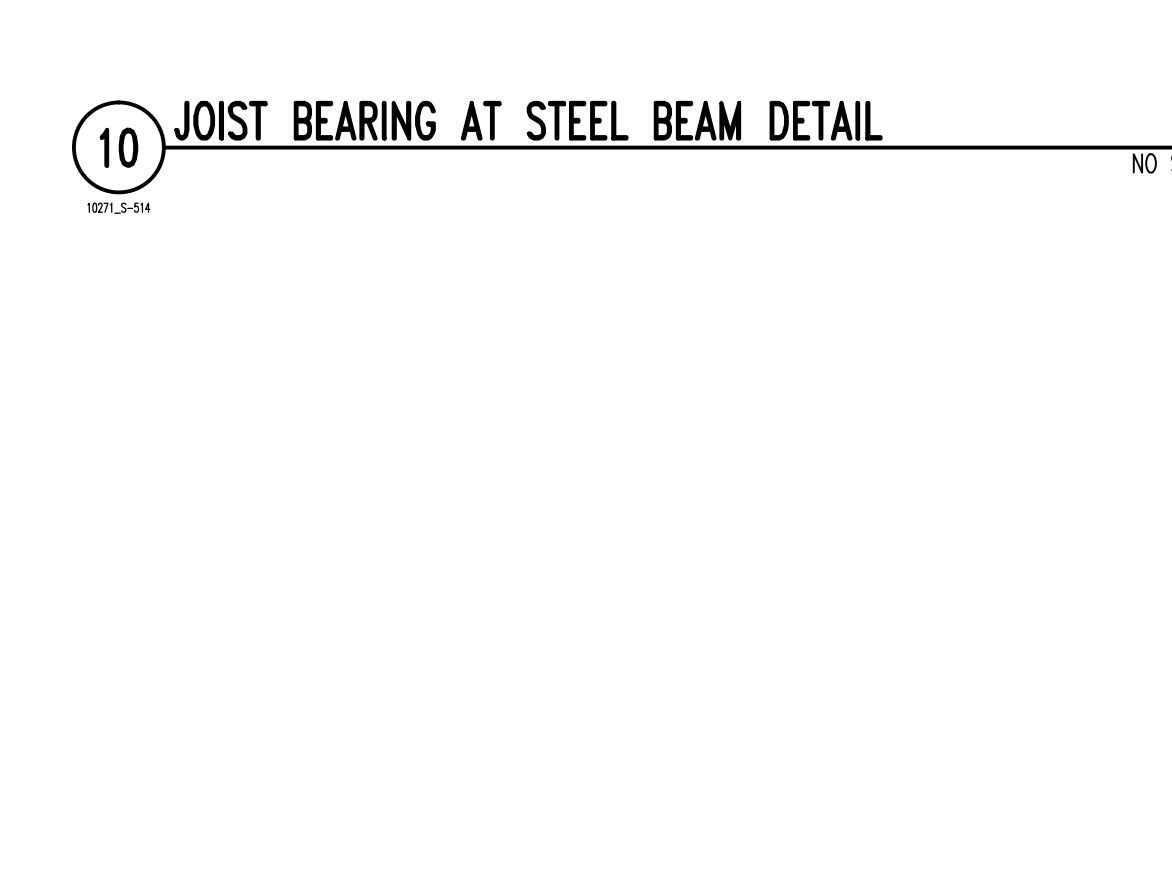
**16 JOIST BEARING AT STEEL BEAM DETAIL** NO SCALE



**17 TYPICAL CHANNEL CHORD TIE DETAIL** NO SCALE



**18 MASONRY COLUMN BRACE DETAIL** NO SCALE



**19 CANOPY SUPPORT DETAIL** NO SCALE

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ROOF  
FRAMING  
DETAILS

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514**

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| CONCRETE FOOTING SCHEDULE |       |        |       |                       |      |         |                        |      |         |          |                |
|---------------------------|-------|--------|-------|-----------------------|------|---------|------------------------|------|---------|----------|----------------|
| MARK                      | WIDTH | LENGTH | DEPTH | REINFORCING CROSSWISE |      |         | REINFORCING LENGTHWISE |      |         | COMMENTS |                |
|                           |       |        |       | No.                   | SIZE | SPACING | No.                    | SIZE | SPACING |          |                |
| FTS2.0                    | 2'-0" | CONT   | 12"   | -                     | -    | -       | 3                      | #4   | CONT    | EQ       | THICKENED SLAB |
| FT1.5                     | 1'-6" | CONT   | 12"   | -                     | -    | -       | 2                      | #5   | CONT    | EQ       |                |
| FT2.0                     | 2'-0" | CONT   | 12"   | -                     | -    | -       | 3                      | #4   | CONT    | EQ       |                |
| FS3.0                     | 3'-0" | 3'-0"  | 12"   | 3                     | #5   | 2'-6"   | EQ                     | 3    | #5      | 2'-6"    | EQ             |
| FS3.5                     | 3'-6" | 3'-6"  | 12"   | 3                     | #5   | 3'-0"   | EQ                     | 3    | #5      | 3'-0"    | EQ             |
| FS4.0                     | 4'-0" | 4'-0"  | 12"   | 4                     | #5   | 3'-6"   | EQ                     | 4    | #5      | 3'-6"    | EQ             |
| FS4.5                     | 4'-6" | 4'-6"  | 12"   | 4                     | #5   | 4'-0"   | EQ                     | 4    | #5      | 4'-0"    | EQ             |
| FS5.0                     | 5'-0" | 5'-0"  | 12"   | 5                     | #5   | 4'-6"   | EQ                     | 4    | #5      | 4'-6"    | EQ             |
| FS5.5                     | 5'-6" | 5'-6"  | 12"   | 5                     | #5   | 5'-0"   | EQ                     | 5    | #5      | 5'-0"    | EQ             |
| FS6.0                     | 6'-0" | 6'-0"  | 12"   | 6                     | #5   | 5'-6"   | EQ                     | 6    | #5      | 5'-6"    | EQ             |
| FR4x23                    | 4'-0" | 23'-0" | 24"   | -                     | #5   | 3'-6"   | 14                     | 5    | #6      | 22'-6"   | EQ             |
| FR4x15.5                  | 4'-0" | 15'-6" | 30"   | -                     | #5   | 4'-6"   | 11                     | 5    | #6      | 15'-0"   | EQ             |
| FR5x25                    | 5'-0" | 25'-0" | 30"   | -                     | #5   | 4'-6"   | 11                     | 5    | #6      | 24'-6"   | EQ             |
| FR5x22                    | 5'-6" | 22'-0" | 24"   | -                     | #5   | 5'-0"   | 14                     | 7    | #6      | 21'-6"   | EQ             |
| FR6x21                    | 6'-0" | 21'-0" | 32"   | -                     | #5   | 5'-6"   | 10                     | 6    | #6      | 20'-6"   | EQ             |
| FR6x29                    | 6'-0" | 29'-0" | 38"   | -                     | #5   | 5'-6"   | 9                      | 6    | #6      | 28'-6"   | EQ             |
| FR7x22                    | 7'-0" | 22'-0" | 35"   | -                     | #5   | 6'-6"   | 9                      | 7    | #6      | 21'-6"   | EQ             |
| FR7x28                    | 7'-0" | 28'-0" | 32"   | -                     | #5   | 6'-6"   | 10                     | 7    | #6      | 27'-6"   | EQ             |
| FR8x24                    | 8'-0" | 24'-0" | 48"   | -                     | #5   | 7'-6"   | 7                      | 10   | #6      | 23'-6"   | EQ             |
| FR9x34                    | 9'-0" | 34'-0" | 42"   | -                     | #5   | 8'-6"   | 8                      | 11   | #6      | 33'-6"   | EQ             |

- CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
  2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
  3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
  4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
  5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

## 1 CONCRETE FOOTING SCHEDULE

NO SCALE

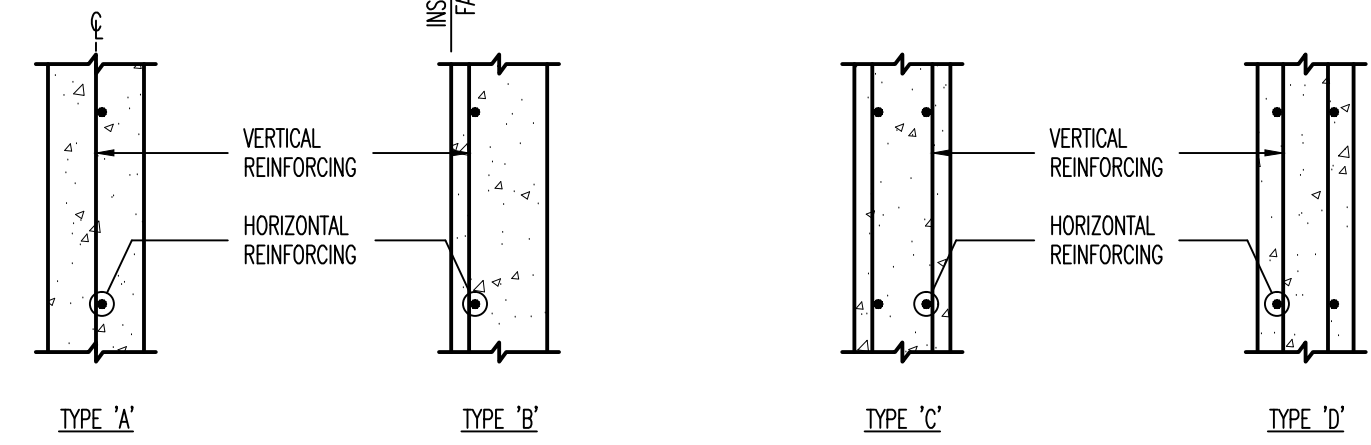
| CONCRETE WALL SCHEDULE |           |                          |                          |                |           |          |
|------------------------|-----------|--------------------------|--------------------------|----------------|-----------|----------|
| MARK                   | THICKNESS | REINFORCING              |                          | TOP AND BOTTOM | WALL TYPE | COMMENTS |
|                        |           | VERTICAL                 | HORIZONTAL               |                |           |          |
| CW-8A                  | 8"        | #4 BARS AT 18" O.C.      | #4 BARS AT 12" O.C.      | (1) #4         | A         |          |
| CW-12A                 | 12"       | #4 BARS AT 18" O.C. E.F. | #4 BARS AT 16" O.C. E.F. | (2) #4         | C         |          |
| CW-16A                 | 16"       | #4 BARS AT 18" O.C. E.F. | #4 BARS AT 12" O.C. E.F. | (2) #4         | C         |          |

- CONCRETE FOUNDATION WALL NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
  2. CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

| THICKNESS | VERTICAL REINFORCING     | HORIZONTAL REINFORCING   |
|-----------|--------------------------|--------------------------|
| 6"        | #4 BARS AT 18" O.C.      | #4 BARS AT 16" O.C.      |
| 8"        | #4 BARS AT 18" O.C.      | #4 BARS AT 12" O.C.      |
| 10"       | #4 BARS AT 18" O.C.      | #4 BARS AT 10" O.C.      |
| 12"       | #4 BARS AT 18" O.C. E.F. | #4 BARS AT 16" O.C. E.F. |

ABBREVIATIONS:  
E.F. EACH FACE  
I.F. INSIDE FACE  
O.F. OUTSIDE FACE

WALL REINFORCING PLACEMENT TYPES:

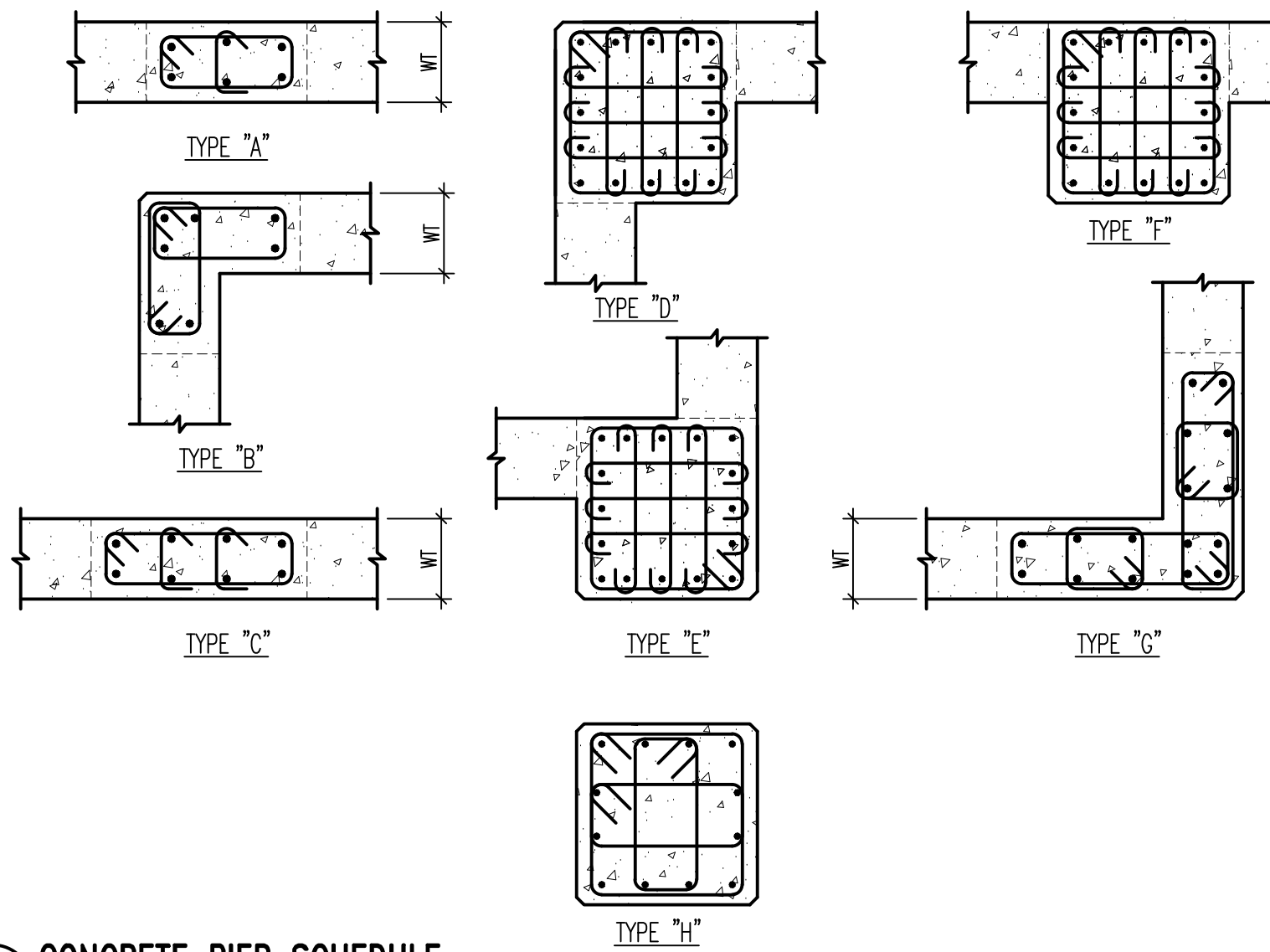


## 2 CONCRETE WALL SCHEDULE

NO SCALE

| CONCRETE PIER SCHEDULE |           |             |                   |      |          |
|------------------------|-----------|-------------|-------------------|------|----------|
| MARK                   | PIER SIZE | REINFORCING |                   | TYPE | COMMENTS |
|                        |           | VERTICAL    | TIES              |      |          |
| CP-18A                 | WT x 18"  | (1) #5      | (2) #5 AT 8" O.C. | A    |          |
| CP-18B                 | WTx18x18" | (7) #5      | (2) #5 AT 8" O.C. | B    |          |
| CP-28A                 | 28"x28"   | (12) #5     | (3) #3 AT 6" O.C. | H    |          |
| CP-32A                 | WTx32"    | (8) #5      | (3) #3 AT 6" O.C. | C    |          |
| CP-32B                 | 32"x32"   | (16) #5     | (6) #3 AT 6" O.C. | D    |          |
| CP-32C                 | 32"x32"   | (16) #5     | (6) #3 AT 6" O.C. | E    |          |
| CP-32D                 | 32"x32"   | (16) #5     | (6) #3 AT 6" O.C. | F    |          |
| CP-32E                 | WTx32x32" | (16) #5     | (4) #3 AT 6" O.C. | G    |          |

- CONCRETE PIER NOTES:
1. INSTALL (3) SETS OF TIES WITHIN TOP 5" OF ALL PIERS (UNO).
  2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS POURED MONOLITHICALLY WITH CONCRETE WALL.
  3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

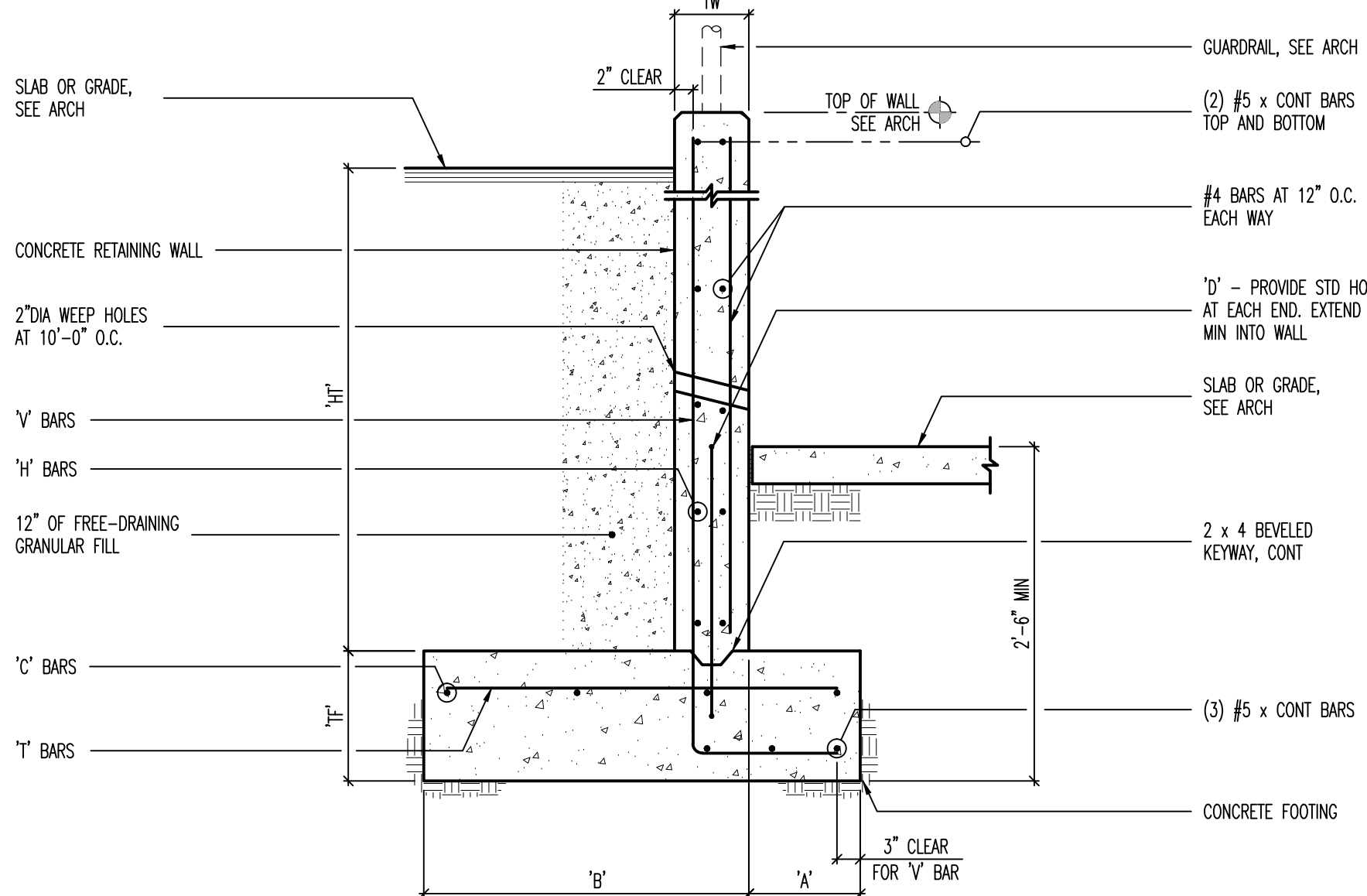


## 3 CONCRETE PIER SCHEDULE

NO SCALE

| CONCRETE RETAINING WALL SCHEDULE |       |       |       |    |     |      |       |      |       |      |       |      |       |      |       |
|----------------------------------|-------|-------|-------|----|-----|------|-------|------|-------|------|-------|------|-------|------|-------|
| MARK                             | HT    | A     | B     | TW | TF  | V    |       | H    |       | T    |       | C    |       | D    |       |
|                                  |       |       |       |    |     | SIZE | SPACE | SIZE | SPACE | SIZE | SPACE | SIZE | SPACE | SIZE | SPACE |
| CRW-8A                           | 4'-0" | 1'-6" | 2'-4" | 8" | 14" | #5   | 18"   | #4   | 12"   | #5   | 18"   | #5   | 12"   | #5   | 18"   |
| CRW-8B                           | 6'-0" | 1'-6" | 4'-6" | 8" | 14" | #5   | 18"   | #4   | 12"   | #5   | 18"   | #5   | 12"   | #5   | 18"   |
| CRW-8C                           | 7'-0" | 2'-0" | 6'-0" | 8" | 17" | #5   | 11"   | #4   | 12"   | #5   | 18"   | #5   | 9"    | #5   | 18"   |

- CONCRETE RETAINING WALL NOTES:
1. "V" BARS SHALL NOT BE SPICED BELOW MID-HEIGHT OF WALL.
  2. WHERE "HT" IS GREATER THAN 9'-0", THEN ONE HALF OF THE "V" BARS MAY BE DISCONTINUED AT MID-HEIGHT OF WALL.
  3. PROVIDE VERTICAL CONTRACTION JOINTS AT 20'-0" O.C. MAXIMUM. SEE ARCHITECTURAL DRAWINGS AND GENERAL STRUCTURAL NOTES.
  4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



## 4 CONCRETE RETAINING WALL SCHEDULE

NO SCALE

| CONCRETE REINFORCING BAR LAP SPICE SCHEDULE |               |      |      |       |                            |      |      |       |               |     |     |       |               |     |     |       |
|---------------------------------------------|---------------|------|------|-------|----------------------------|------|------|-------|---------------|-----|-----|-------|---------------|-----|-----|-------|
| BAR SIZE                                    | f'c = 3000psi |      |      |       | f'c = 4000psi AND 4500 psi |      |      |       | f'c = 5000psi |     |     |       | f'c = 6000psi |     |     |       |
|                                             | REGULAR       |      | TOP  | CLASS | REGULAR                    |      | TOP  | CLASS | REGULAR       |     | TOP | CLASS | REGULAR       |     | TOP | CLASS |
|                                             | A             | B    | A    |       | B                          | A    | B    |       | A             | B   | A   |       | B             |     |     |       |
| #3                                          | 13"           | 17"  | 17"  | 21"   | 12"                        | 16"  | 16"  | 21"   | 12"           | 16" | 16" | 21"   | 12"           | 16" | 16" | 21"   |
| #4                                          | 17"           | 22"  | 22"  | 28"   | 15"                        | 19"  | 19"  | 25"   | 13"           | 17" | 17" | 22"   | 12"           | 16" | 16" | 21"   |
| #5                                          | 21"           | 27"  | 27"  | 35"   | 18"                        | 24"  | 24"  | 31"   | 16"           | 21" | 21" | 27"   | 15"           | 19" | 19" | 25"   |
| #6                                          | 27"           | 36"  | 36"  | 46"   | 24"                        | 31"  | 31"  | 40"   | 21"           | 28" | 28" | 36"   | 20"           | 25" | 25" | 33"   |
| #7                                          | 37"           | 48"  | 48"  | 63"   | 32"                        | 42"  | 42"  | 54"   | 29"           | 38" | 38" | 49"   | 27"           | 34" | 34" | 44"   |
| #8                                          | 49"           | 64"  | 64"  | 82"   | 42"                        | 55"  | 55"  | 71"   | 38"           | 49" | 49" | 64"   | 35"           | 45" | 45" | 58"   |
| #9                                          | 62"           | 80"  | 80"  | 104"  | 54"                        | 70"  | 70"  | 90"   | 48"           | 62" | 62" | 81"   | 44"           | 57" | 57" | 74"   |
| #10                                         | 78"           | 102" | 102" | 132"  | 68"                        | 88"  | 88"  | 115"  | 61"           | 79" | 79" | 102"  | 56"           | 72" | 72" | 94"   |
| #11                                         | 96"           | 125" | 125" | 162"  | 83"                        | 108" | 108" | 141"  | 76"           | 97" | 97" | 126"  | 68"           | 88" | 88" | 115"  |

- CONCRETE REINFORCING BAR LAP SPICE NOTES:
1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE.
  2. CLASS 'A' SPICES MAY BE USED ONLY IN CASES WHERE ONE OR LESS OF THE BARS ARE SPICED WITHIN THE LAP SPICE LENGTH.
  3. CLASS 'B' SPICES SHALL BE USED FOR ALL SPICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.
  4. TIES AND STIRRUPS SHALL NOT BE SPICED.
  5. SPICES FOR BUNDLED BARS:
    - a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.2.
    - b. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPICE LENGTHS SHALL BE MULTIPLIED BY 1.33.
    - c. INDIVIDUAL BAR SPICES WITHIN A BUNDLE SHALL NOT OVERLAP.
    - d. ENTIRE BUNDLES SHALL NOT BE LAP SPICED.
  6. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.
  7. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS.
  8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12" OR MORE OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.
  9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

## 5 CONCRETE REINFORCING BAR LAP SPICE SCHEDULE

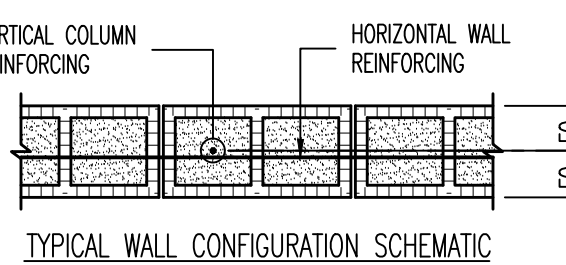
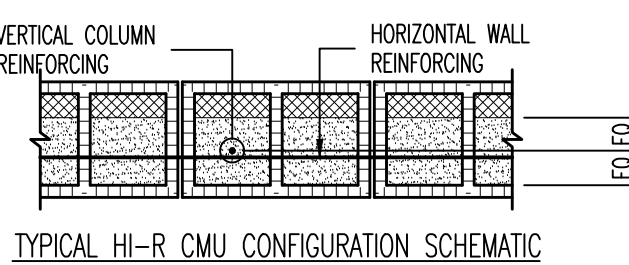
NO SCALE

| MASONRY WALL SCHEDULE |           |          |             |                     |                     |
|-----------------------|-----------|----------|-------------|---------------------|---------------------|
| MARK                  | THICKNESS | MATERIAL | SOLID GROUT | REINFORCING         |                     |
|                       |           |          |             | VERTICAL            | HORIZONTAL          |
| MW-8A                 | 8"        | CMU      | YES         | #5 BARS AT 32" O.C. | #5 BARS AT 48" O.C. |
| MW-10A                | 10"       | HI-R CMU | YES         | #5 BARS AT 16" O.C. | #4 BARS AT 24" O.C. |
| MW-10B                | 10"       | HI-R CMU | YES         | #5 BARS AT 32" O.C. | #4 BARS AT 24" O.C. |

- MASONRY WALL NOTES:
1. COORDINATE WALL FINISHES, MATERIALS, COURSES, ETC. WITH ARCHITECTURAL DRAWINGS.
  2. DO NOT SOLID GROUT WALLS UNLESS REQUIRED BY SCHEDULE, NOTES, OR DETAILS.
  3. SOLID GROUT ALL MASONRY COURSES BELOW GRADE.
  4. VERTICAL REINFORCING SHALL BE CENTER IN WALL (UNO).
  5. PROVIDE TWO VERTICAL BARS (MIN) AT ALL CORNERS AND END OF WALLS.
  6. HORIZONTAL WALL REINFORCING SHALL BE PLACED BETWEEN VERTICAL MASONRY COLUMN REINFORCING BARS.
  7. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
  8. MASONRY WALL NOT DESIGNATED IN THE PLANS SHALL BE REINFORCED AS FOLLOWS:

| THICKNESS | VERTICAL REINFORCING | HORIZONTAL REINFORCING  |
|-----------|----------------------|-------------------------|
| 6"        | #5 BARS AT 32" O.C.  | #4 BARS AT 48" O.C.     |
| 8"        | #5 BARS AT 32" O.C.  | #5 BARS AT 48" O.C.     |
| 10"       | #5 BARS AT 24" O.C.  | #5 BARS AT 48" O.C.     |
| 12"       | #5 BARS AT 24" O.C.  | (2) #5 BARS AT 48" O.C. |

9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

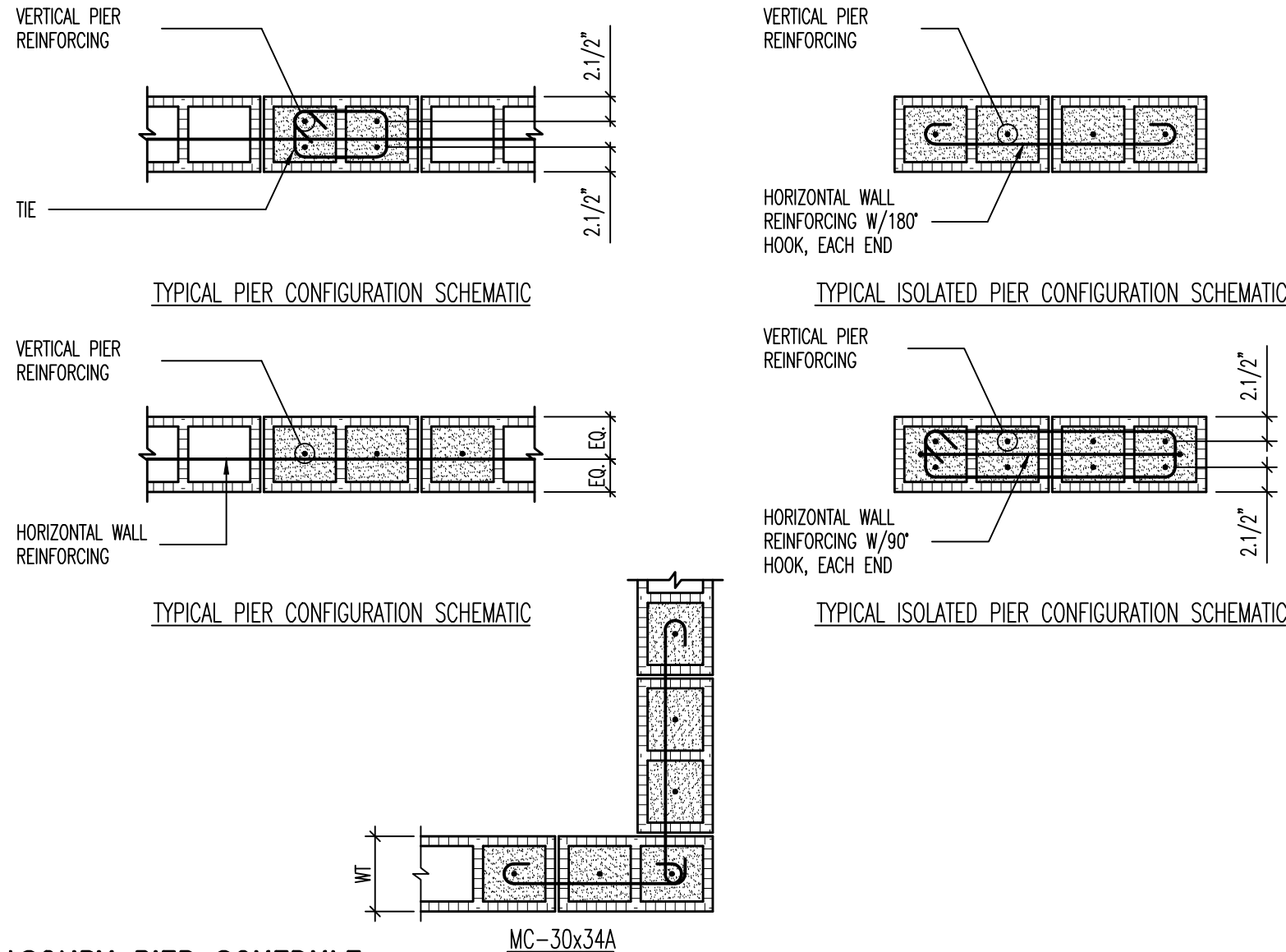


## 6 MASONRY WALL SCHEDULE

NO SCALE

| MASONRY PIER SCHEDULE |            |             |                   |                                                                                                |
|-----------------------|------------|-------------|-------------------|------------------------------------------------------------------------------------------------|
| MARK                  | SIZE       | REINFORCING |                   | REINFORCING SCHEMATIC                                                                          |
|                       |            | VERTICAL    | TIES              |                                                                                                |
| MC-16A                | WTx16"     | (2) #5      | NONE              | • •                                                                                            |
| MC-24A                | WTx24"     | (3) #5      | NONE              | • • •                                                                                          |
| MC-24B                | WTx24"     | (6) #5      | #2 AT 8" O.C.     | • • • • •<br>TIES OCCUR ONLY BETWEEN BOTTOM AND TOP OF OPENING. TIES REPLACE HORIZ. WALL REIN. |
| MC-32A                | WTx32"     | (8) #5      | #2 AT 8" O.C.     | • • • • •<br>TIES OCCUR ONLY BETWEEN BOTTOM AND TOP OF OPENING. TIES REPLACE HORIZ. WALL REIN. |
| MC-30x34A             | WTx30"x34" | (6) #5      | (2) #3 AT 8" O.C. | SEE SCHEMATIC                                                                                  |
| MC-40A                | WTx40"     | (10) #5     | #2 AT 8" O.C.     | • • • • •<br>TIES OCCUR ONLY BETWEEN BOTTOM AND TOP OF OPENING. TIES REPLACE HORIZ. WALL REIN. |
| MC-56A                | WTx56"     | (14) #5     | #2 AT 8" O.C.     | • • • • •<br>TIES OCCUR ONLY BETWEEN BOTTOM AND TOP OF OPENING. TIES REPLACE HORIZ. WALL REIN. |

- MASONRY PIER NOTES:
1. THE CENTERLINE OF THE VERTICAL BARS SHALL BE LOCATED 2 1/2" FROM THE FACE OF THE MASONRY. HORIZONTAL WALL REINFORCING SHALL BE LOCATED TO THE INSIDE OF THE VERTICAL BARS.
  2. VERTICAL REINFORCING AND TIES SHALL EXTEND FULL HEIGHT OF WALL (UNO).
  3. VERTICAL MASONRY PIER REINFORCING SHALL EXTEND INTO THE FOOTING AND TERMINATE WITH A STANDARD 90° HOOK. FOR CONCRETE FOUNDATION WALLS TALLER THAN 5'-0", VERTICAL PIER REINFORCING SHALL DOWEL 4'-0" MINIMUM INTO THE FOUNDATION WALL.
  4. IN CONCRETE FOUNDATION WALLS, VERTICAL MASONRY PIER REINFORCING SHALL BE TIED WITH #3 TIES AT THE SAME SPACING AND CONFIGURATION AS THE MASONRY PIER ABOVE.
  5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

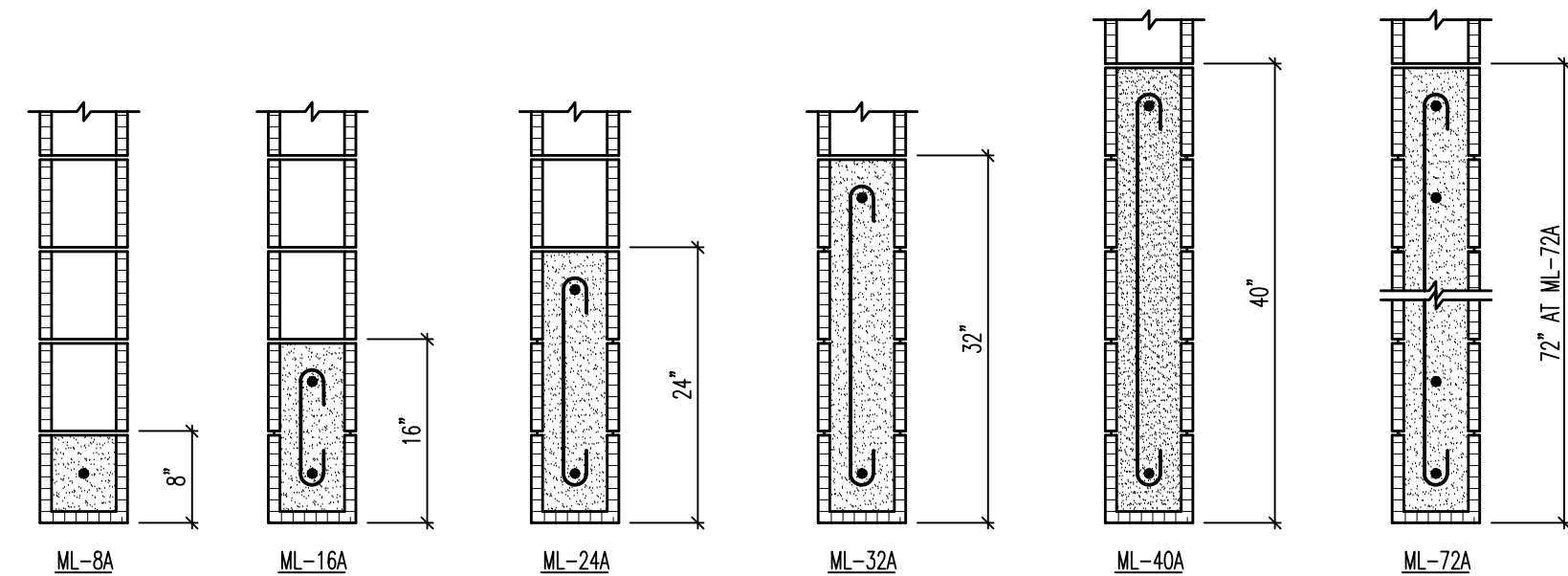


## 7 MASONRY PIER SCHEDULE

NO SCALE

| MASONRY LINTEL SCHEDULE |       |                                       |                              |               |
|-------------------------|-------|---------------------------------------|------------------------------|---------------|
| MARK                    | DEPTH | MAXIMUM SPAN FOR UNSCHEDULED OPENINGS | REINFORCING                  |               |
|                         |       |                                       | HORIZONTAL                   | STIRRUPS      |
| ML-8A                   | 8"    | 3'-4"                                 | (1) #7 x CONT                | NONE          |
| ML-16A                  | 16"   | 6'-0"                                 | (1) #7 x CONT TOP AND BOTTOM | #4 AT 8" O.C. |
| ML-24A                  | 24"   | 8'-0"                                 | (1) #7 x CONT TOP AND BOTTOM | #4 AT 8" O.C. |
| ML-32A                  | 32"   | 10'-0"                                | (1) #7 x CONT TOP AND BOTTOM | #4 AT 8" O.C. |
| ML-40A                  | 40"   | -                                     | (1) #7 x CONT TOP AND BOTTOM | #4 AT 8" O.C. |
| ML-72A                  | 72"   | -                                     | (2) #8 x CONT TOP AND BOTTOM | #5 AT 8" O.C. |

- MASONRY LINTEL NOTES:
1. LINTEL WIDTH AND MATERIAL TYPE SHALL BE THE SAME AS THE WALL IN WHICH THE LINTEL IS CONSTRUCTED.
  2. GROUT MASONRY LINTELS MONOLITHICALLY WITH THE SUPPORT WALL OR COLUMN AT EACH END.
  3. MASONRY LINTELS ML-8A, ML-16A, ML-24A, AND ML-32A SHALL BE USED OVER OPENINGS IN MASONRY WALLS WHEN A SPECIFIC MASONRY LINTEL IS NOT OTHERWISE SPECIFIED. WHEN A LINTEL IS SPECIFIED ON THE PLANS, THE MAXIMUM SPAN AS NOTED IN THIS SCHEDULE SHALL NOT APPLY. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SPECIFIED ON THE PLANS WHICH HAVE A SPAN GREATER THAN 10'-0".
  4. MASONRY LINTELS ML-8A, ML-16A, ML-24A, AND ML-32A SHALL NOT BE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR BRIDGES UNLESS NOTED OTHERWISE ON THE PLANS. JOISTS SHALL NOT BEAR ON ANY LINTEL LESS THAN 18" DEEP. CONSULT THE STRUCTURAL ENGINEER FOR LINTELS NOT SHOWN ON THE PLANS WHICH ARE LOCATED DIRECTLY BELOW FLOOR OR ROOF BEAMS OR BRIDGES.
  5. EXTEND ALL HORIZONTAL REINFORCING 48 BAR DIAMETERS MINIMUM BEYOND THE EDGE OF ALL OPENINGS. IF HORIZONTAL REINFORCING CANNOT EXTEND 48 BAR DIAMETERS BEYOND EDGE OF OPENING, PROVIDE 90° STANDARD HOOK.
  6. SPICE TOP BARS AT MIDSPAN OF LINTEL ONLY AND BOTTOM BARS OVER SUPPORTS ONLY.
  7. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, USE THE LARGER REINFORCING.
  8. DOWEL VERTICAL REINFORCING OF WALL ABOVE LINTEL INTO THE FULL DEPTH OF LINTEL OR 48 BAR DIAMETERS, WHICHEVER IS LESS.
  9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



## 8 MASONRY LINTEL SCHEDULE

NO SCALE

| MASONRY REINFORCING LAP SCHEDULE |                        |                        |
|----------------------------------|------------------------|------------------------|
| BAR SIZE                         | (1) BAR PER CELL       | (2) BARS PER CELL      |
| #3                               | 13"                    | 13"                    |
| #4                               | 21"                    | 21"                    |
| #5                               | 34"                    | 34"                    |
| #6                               | 37"                    | USE MECH SPUCE COUPLER |
| #7                               | USE MECH SPUCE COUPLER | USE MECH SPUCE COUPLER |
| #8                               | USE MECH SPUCE COUPLER | USE MECH SPUCE COUPLER |







MECHANICAL SYMBOL LEGEND AND ABBREVIATIONS

| SINGLE LINE | DOUBLE LINE |                                                                                                                          |
|-------------|-------------|--------------------------------------------------------------------------------------------------------------------------|
|             |             | POSITIVE PRESSURE DUCT - RISE                                                                                            |
|             |             | POSITIVE PRESSURE DUCT - DROP                                                                                            |
|             |             | NEGATIVE PRESSURE - RISE                                                                                                 |
|             |             | NEGATIVE PRESSURE - DROP                                                                                                 |
|             |             | ROUND DUCT - RISE                                                                                                        |
|             |             | ROUND DUCT - DROP                                                                                                        |
|             |             | TURNING VANES                                                                                                            |
|             |             | RETURN AIR GRILLE WITH SOUND BOOT                                                                                        |
|             |             | CEILING SUPPLY DIFFUSER                                                                                                  |
|             |             | CEILING RETURN REGISTER                                                                                                  |
|             |             | CEILING EXHAUST REGISTER                                                                                                 |
|             |             | SIDEWALL SUPPLY REGISTER                                                                                                 |
|             |             | SIDEWALL EXHAUST OR RETURN REGISTER                                                                                      |
|             |             | CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT                                                                               |
|             |             | CEILING PLENUM RETURN REGISTER                                                                                           |
|             |             | FLEXIBLE DUCT CONNECTION                                                                                                 |
|             |             | FLEXIBLE DUCT                                                                                                            |
|             |             | FAN                                                                                                                      |
|             |             | RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES                                                              |
|             |             | ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES                                                                    |
|             |             | INCLINED RISE                                                                                                            |
|             |             | INCLINED DROP                                                                                                            |
|             |             | R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR                                                                                 |
|             |             | RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15' INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE |
|             |             | RECTANGULAR TO ROUND DUCT TRANSFORMATION                                                                                 |
|             |             | BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. TURNING VANE OPTIONAL                                                           |
|             |             | TAP ENTRY AREA EQUALS 150% OF BRANCH AREA                                                                                |

TOP FIGURE INDICATES CFM. BOTTOM FIGURE INDICATES NECK SIZE. BRANCH DUCT SIZE IS FULL SIZE OF DIFFUSER, REGISTER CONNECTION, UNLESS NOTED OTHERWISE.

| SINGLE LINE | DOUBLE LINE |                                          |
|-------------|-------------|------------------------------------------|
|             |             | SINGLE BLADE OR MULTIBLADE VOLUME DAMPER |
|             |             | BACKDRAFT DAMPER                         |
|             |             | COMBINATION FIRE/SMOKE DAMPER            |
|             |             | ATC DAMPER                               |
|             |             | ACCESS PANEL                             |
|             |             | ACCESS PANEL IN DUCT OR PLENUM           |
|             |             | SUPPLY                                   |
|             |             | RETURN                                   |
|             |             | EXHAUST                                  |
|             |             | ROUND DUCT SECTION                       |
|             |             | SUPPLY DIFFUSER 4-WAY BLOW PATTERN       |
|             |             | SUPPLY DIFFUSER 3-WAY BLOW PATTERN       |
|             |             | SUPPLY DIFFUSER 2-WAY BLOW PATTERN       |
|             |             | SUPPLY DIFFUSER 1-WAY BLOW PATTERN       |

RECTANGULAR DUCT SECTION

|  |                                       |
|--|---------------------------------------|
|  | PIPE BRANCH - INTO PLANE              |
|  | PIPE BRANCH - OUT OF PLANE            |
|  | PIPE BRANCH - IN PLANE                |
|  | 90° ELBOW                             |
|  | 45° ELBOW                             |
|  | SIDE OUT DOWN ELBOW                   |
|  | SIDE UP OUT ELBOW                     |
|  | DOUBLE ELBOW                          |
|  | STRAIGHT TEE (PIPE BRANCH - IN PLANE) |
|  | CROSS                                 |
|  | CONCENTRIC REDUCER                    |
|  | ECCENTRIC REDUCER                     |
|  | LATERAL STRAINER                      |
|  | LATERAL STRAINER W/BLOW-OFF VALVE     |
|  | GATE VALVE                            |
|  | ATC VALVE - 3 WAY                     |
|  | GLOBE VALVE                           |
|  | UNION                                 |

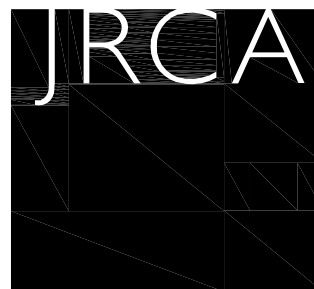
|  |                                                                            |
|--|----------------------------------------------------------------------------|
|  | SHUT-OFF VALVE                                                             |
|  | CHECK VALVE                                                                |
|  | MOTOR OPERATED BUTTERFLY VALVE                                             |
|  | GAS SHUT-OFF VALVE                                                         |
|  | EXPANSION JOINT                                                            |
|  | RELIEF VALVE                                                               |
|  | PNEUMATIC-ELECTRIC CONTROL VALVE                                           |
|  | SOLENOID VALVE                                                             |
|  | ALIGNMENT GUIDE                                                            |
|  | ANCHOR                                                                     |
|  | PRESSURE GAUGE WITH COCK                                                   |
|  | PRESSURE SWITCH                                                            |
|  | FLANGE                                                                     |
|  | UNION                                                                      |
|  | FLOW METER ORIFICE                                                         |
|  | AIR VENT - MANUAL                                                          |
|  | AIR VENT - AUTO                                                            |
|  | FLOW SWITCH                                                                |
|  | SLEEVE                                                                     |
|  | THERMOMETER 0-100°F                                                        |
|  | THERMOMETER 30-240°F                                                       |
|  | THERMOSTAT OR ROOM TEMP. SENSOR                                            |
|  | NIGHT THERMOSTAT                                                           |
|  | DUCT SMOKE DETECTOR                                                        |
|  | SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE                                  |
|  | PUMP                                                                       |
|  | REDUCER                                                                    |
|  | EXPANSION LOOP                                                             |
|  | FLEXIBLE CONNECTION                                                        |
|  | FLOW METER                                                                 |
|  | ARROW INDICATES DIRECTION OF FLOW IN PIPE. LEADER INDICATES DOWNWARD SLOPE |
|  | PIPE INTO PLANE                                                            |
|  | PIPE OUT OF PLANE                                                          |

|  |                                                                                                                                                                                                                                  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | CONDENSATE DRAIN                                                                                                                                                                                                                 |
|  | MAKE UP AIR                                                                                                                                                                                                                      |
|  | VENT                                                                                                                                                                                                                             |
|  | VENT THROUGH ROOF                                                                                                                                                                                                                |
|  | DOMESTIC COLD WATER                                                                                                                                                                                                              |
|  | DOMESTIC HOT WATER                                                                                                                                                                                                               |
|  | DOMESTIC HOT WATER RETURN                                                                                                                                                                                                        |
|  | PROPANE (LPG)                                                                                                                                                                                                                    |
|  | FLOW CONTROL VALVE                                                                                                                                                                                                               |
|  | CALIBRATED BALANCING VALVE                                                                                                                                                                                                       |
|  | WASTE (ABOVE GRADE)                                                                                                                                                                                                              |
|  | WASTE (BELOW GRADE)                                                                                                                                                                                                              |
|  | ROOF DRAIN                                                                                                                                                                                                                       |
|  | ROOF DRAIN OVERFLOW                                                                                                                                                                                                              |
|  | FCO - FLOOR CLEANOUT                                                                                                                                                                                                             |
|  | WCO - WALL CLEANOUT                                                                                                                                                                                                              |
|  | COTG - CLEANOUT TO GRADE                                                                                                                                                                                                         |
|  | POINT OF CONNECTION                                                                                                                                                                                                              |
|  | ROOM NUMBER                                                                                                                                                                                                                      |
|  | SECTION TAG - TOP FIGURE IS SECTION NO.                                                                                                                                                                                          |
|  | DETAIL TAG - TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.                                                                                                                                                                 |
|  | EQUIPMENT IDENTIFICATION                                                                                                                                                                                                         |
|  | EXAMPLE :<br>RTU - ACRONYM USED FOR A PIECE OF EQUIPMENT.<br>1 - # IDENTIFYING THE UNIT AND DISTINGUISHING IT FROM OTHERS THE SAME SIZE.<br>060 - SYMBOL USED TO IDENTIFY THE EQUIPMENT ON THE PLANS WITH THAT IN THE SCHEDULES. |
|  | KEYED NOTE IDENTIFICATION                                                                                                                                                                                                        |
|  | PLUMBING FIXTURES                                                                                                                                                                                                                |
|  | GEO THERMAL SUPPLY                                                                                                                                                                                                               |
|  | GEO THERMAL RETURN                                                                                                                                                                                                               |
|  | SMOKE DETECTOR, DUCT MOUNTED                                                                                                                                                                                                     |
|  | UP THROUGH ROOF                                                                                                                                                                                                                  |

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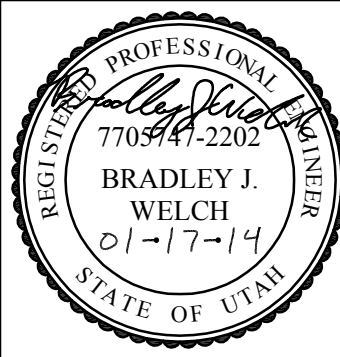
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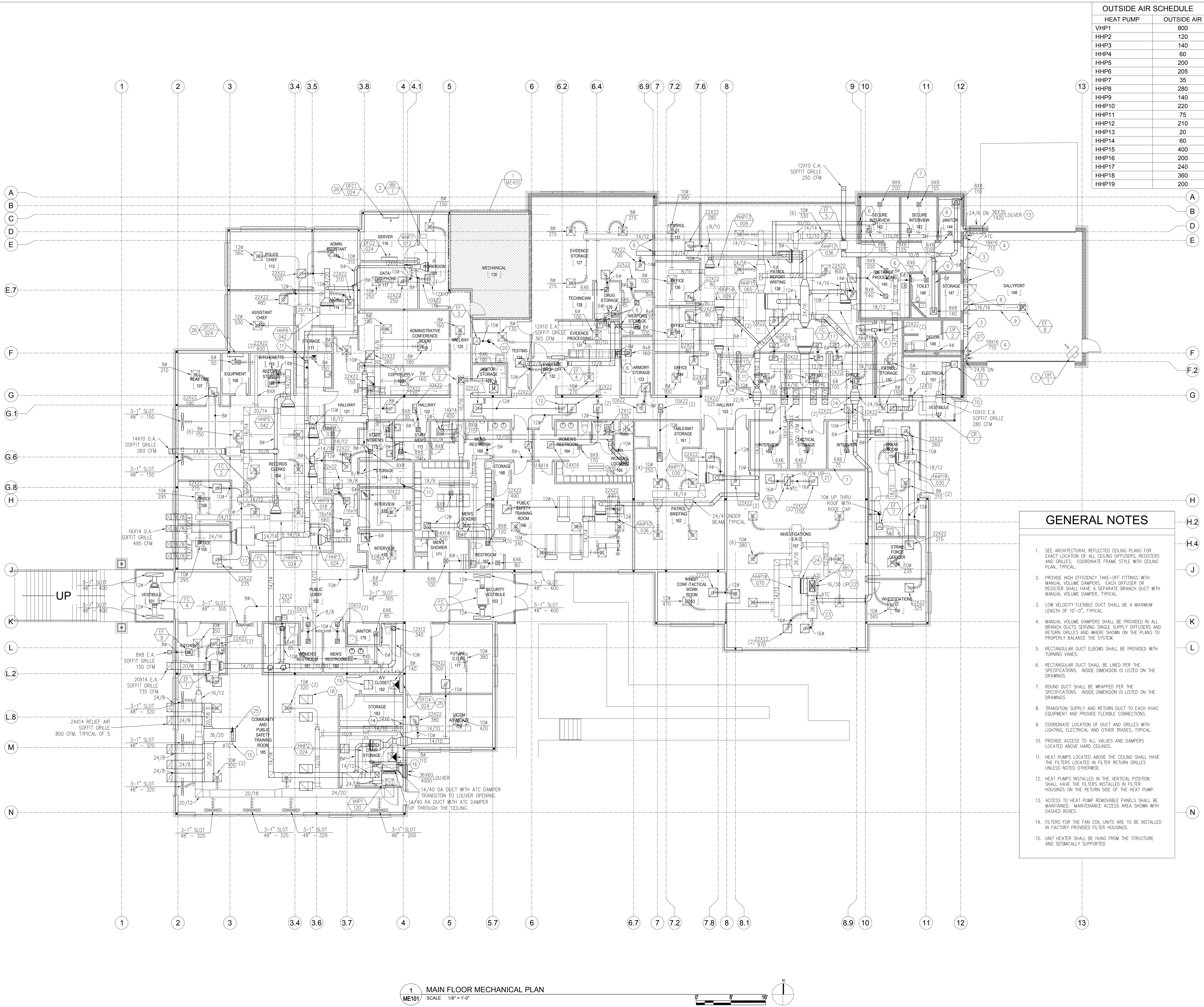
MECHANICAL  
LEGEND

ME001



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| OUTSIDE AIR SCHEDULE |             |
|----------------------|-------------|
| HEAT PUMP            | OUTSIDE AIR |
| VHP1                 | 800         |
| HHP2                 | 120         |
| HHP3                 | 140         |
| HHP4                 | 60          |
| HHP5                 | 200         |
| HHP6                 | 205         |
| HHP7                 | 35          |
| HHP8                 | 280         |
| HHP9                 | 140         |
| HHP10                | 220         |
| HHP11                | 75          |
| HHP12                | 210         |
| HHP13                | 20          |
| HHP14                | 60          |
| HHP15                | 400         |
| HHP16                | 200         |
| HHP17                | 240         |
| HHP18                | 360         |
| HHP19                | 200         |

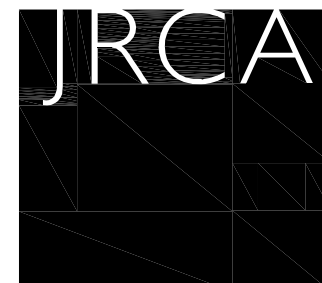
## # KEYED NOTES

- MOUNT UNIT HEATER 10'-0" A.F.F. IN JOIST SPACE.
- DUCTLESS FAN COIL UNIT BRANCH BOX ABOVE CEILING. SEE MECHANICAL PIPING PLAN FOR PIPING AND CONDENSATE DRAIN LINES.
- RUN DUCT TIGHT TO BOTTOM OF JOISTS.
- DROP EXHAUST DUCT DOWN AND MOUNT EXHAUST GRILLE 6" A.F.F.
- BRASCH MANUFACTURING CO. MODEL GOCP-A DIGITAL CONTROL PANEL TO MONITOR REMOTE SENSORS AND CONTROL EXHAUST FAN EF-8 AND FAN COIL UNIT FC-4. MOUNT 60" A.F.F. PROVIDE WITH BRASCH MANUFACTURING CO. MODEL GSE-NOM-TRA REMOTE CARBON MONOXIDE AND NITROGEN SENSOR. MOUNTING HEIGHT PER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE AND INSTALL SECURITY BARS EQUAL TO PRICE MODEL MSDRBG.
- PROVIDE AND INSTALL SECURITY GRILLES AND REGISTERS IN ROOMS WITH SECURITY CEILING SYSTEMS. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- RISE DUCT UP AND RUN UP IN JOIST SPACE. COORDINATE WITH LIGHTING.
- RUN DUCT UP BETWEEN JOISTS.
- LINE VOLTAGE THERMOSTAT TO CONTROL EXHAUST FAN IN ELECTRICAL ROOM BY ATC CONTRACTOR.
- DROP DUCTS DOWN FROM HIGH ROOF AREA TO LOW ROOF AREA. KEEP TIGHT TO BOTTOM OF BEAM.
- TRANSFER AIR GRILLE WITH PLENUM ON THE TOP FOR TRANSITION BETWEEN FLEXIBLE DUCT AND THE GRILLE, TYPICAL. SIZE AS NOTED.
- MOUNT TOP OF LOUVER APPROXIMATELY 10'-0" A.F.F.
- TRANSITION DUCT TO RUN UNDER BEAM. KEEP TIGHT TO BEAM.
- RELIEF AIR ATC DAMPER. INTERLOCK WITH ATC DAMPERS FOR VERTICAL HEAT PUMP VHP-1, BY ATC CONTRACTOR.
- RETURN AIR AND OUTSIDE AIR ATC DAMPERS FOR ECONOMIZER CYCLE. INTERLOCK WITH RELIEF AIR ATC DAMPER, BY ATC CONTRACTOR.
- MOUNT FAN COILS AND OUTSIDE AIR DUCTWORK TO HEAT PUMPS TO RUN ABOVE THE HEAT PUMPS IN THE CEILING SPACE. SLOPE DUCT AS NECESSARY TO RUN ABOVE HEAT PUMPS.
- 22X22 RETURN AIR GRILLE WITH SOUND BOOT, TYPICAL.
- 10X22 RETURN AIR GRILLE WITH SOUND BOOT, TYPICAL.
- EXHAUST DUCT UP THROUGH ROOF WITH ROOF CAP.
- RELIEF AIR DUCT UP TO ROOF HOOD WITH ATC DAMPER. INTERLOCK WITH ATC DAMPERS FOR HORIZONTAL HEAT PUMP HHP-18, BY ATC CONTRACTOR.
- OUTSIDE AIR DUCT UP TO ROOF HOOD WITH ATC DAMPER. INTERLOCK WITH OUTSIDE AIR AND RELIEF AIR ATC DAMPERS, BY ATC CONTRACTOR.
- RETURN AIR ATC DAMPER FOR ECONOMIZER CYCLE. INTERLOCK WITH OUTSIDE AIR AND RELIEF AIR ATC DAMPERS, BY ATC CONTRACTOR.
- PROVIDE FIELD FABRICATED FILTER RACK FOR HHP-18. FILTERS TO BE LOCATED AT THE HEAT PUMP INSTEAD OF FILTER RETURN AIR GRILLES.
- RELIEF AIR DUCT OPEN TO ATTIC SPACE.
- DUCTLESS FAN COIL UNIT ON WALL. SEE MECHANICAL PIPING PLAN FOR PIPING, CONDENSATE DRAIN LINES AND OUTDOOR UNITS.
- 4# DRYER VENT. RISE DUCT UP, EXPOSED AGAINST BLOCK WALL, THROUGH THE CEILING AND RUN OUT THE SIDEWALL OF THE HIGH ROOF TO A DRYER VENT WITH INTEGRAL BACKDRAFT DAMPER.

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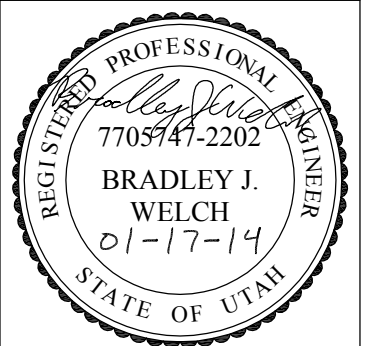
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## MAIN FLOOR MECHANICAL PLAN

ME101

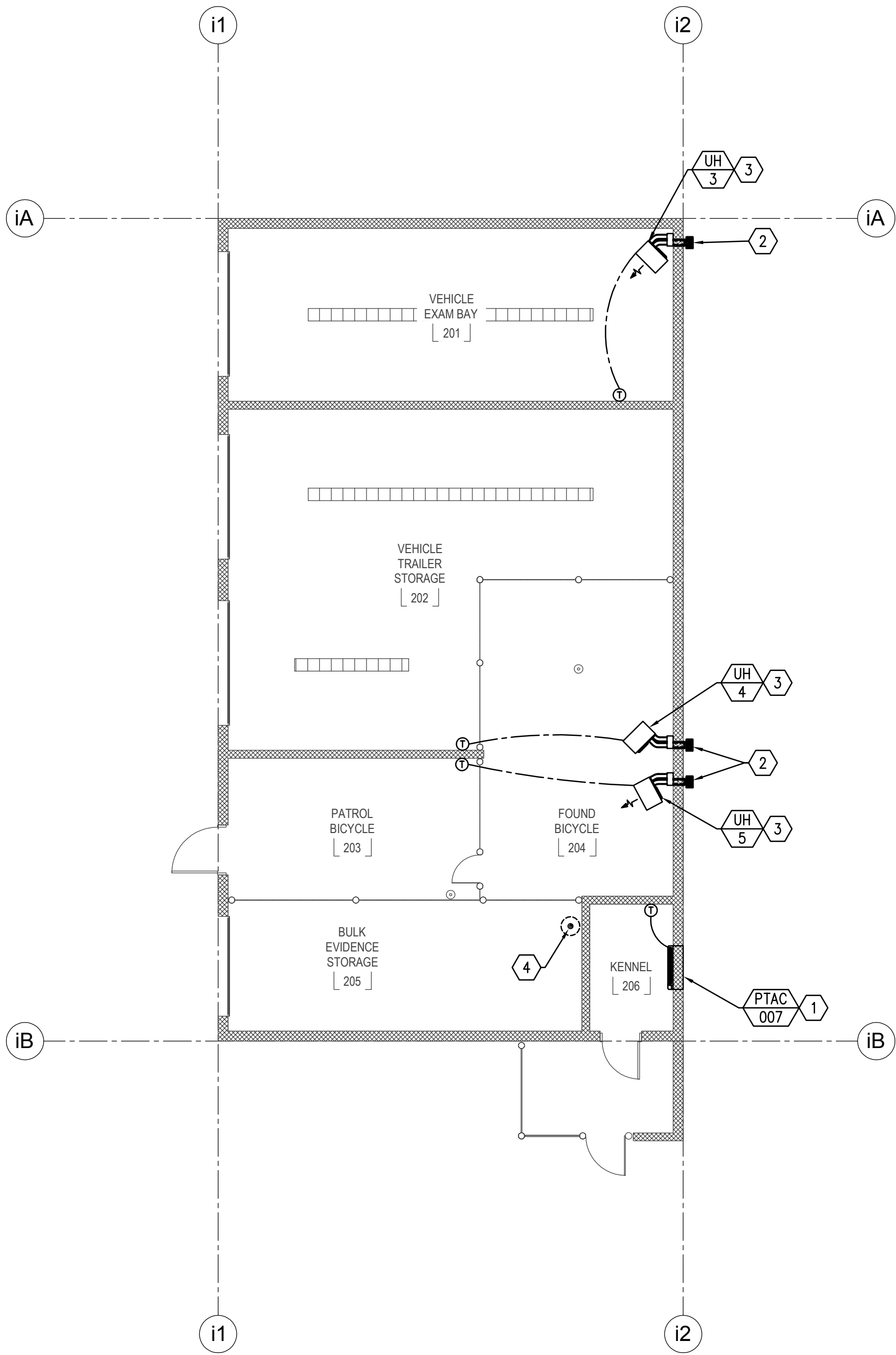
1 MAIN FLOOR MECHANICAL PLAN  
ME101 SCALE 1/8" = 1'-0"





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1 ME102 ANCILLARY BUILDING MECHANICAL PLAN  
SCALE 1/8" = 1'-0"

## # KEYED NOTES

1. MOUNT BOTTOM OF UNIT 5'-0" A.F.F.
2. INSTALL FACTORY INTAKE/EXHAUST WALL ASSEMBLY AND RUN TO UNIT HEATER.
3. MOUNT TOP OF UNIT 10'-0: A.F.F.
4. PROVIDE A 48 TYPE 'B' FLUE FROM THE WATER HEATER THROUGH THE ROOF TO A DRAFT PROOF CAP.

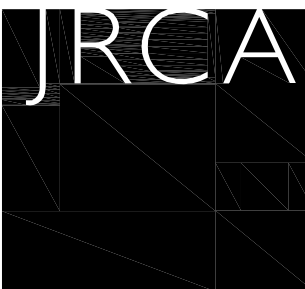
## GENERAL NOTES

1. UNIT HEATERS SHALL BE HUNG FROM THE STRUCTURE AND SEISMICALLY SUPPORTED.
2. UNIT HEATERS SHALL BE CONTROLLED BY A THERMOSTAT.
3. PROVIDE A TYPE 'B' FLUE FROM THE UNIT HEATER THROUGH THE ROOF TO A DRAFT PROOF CAP. SEE PLAN FOR FLUE SIZE.

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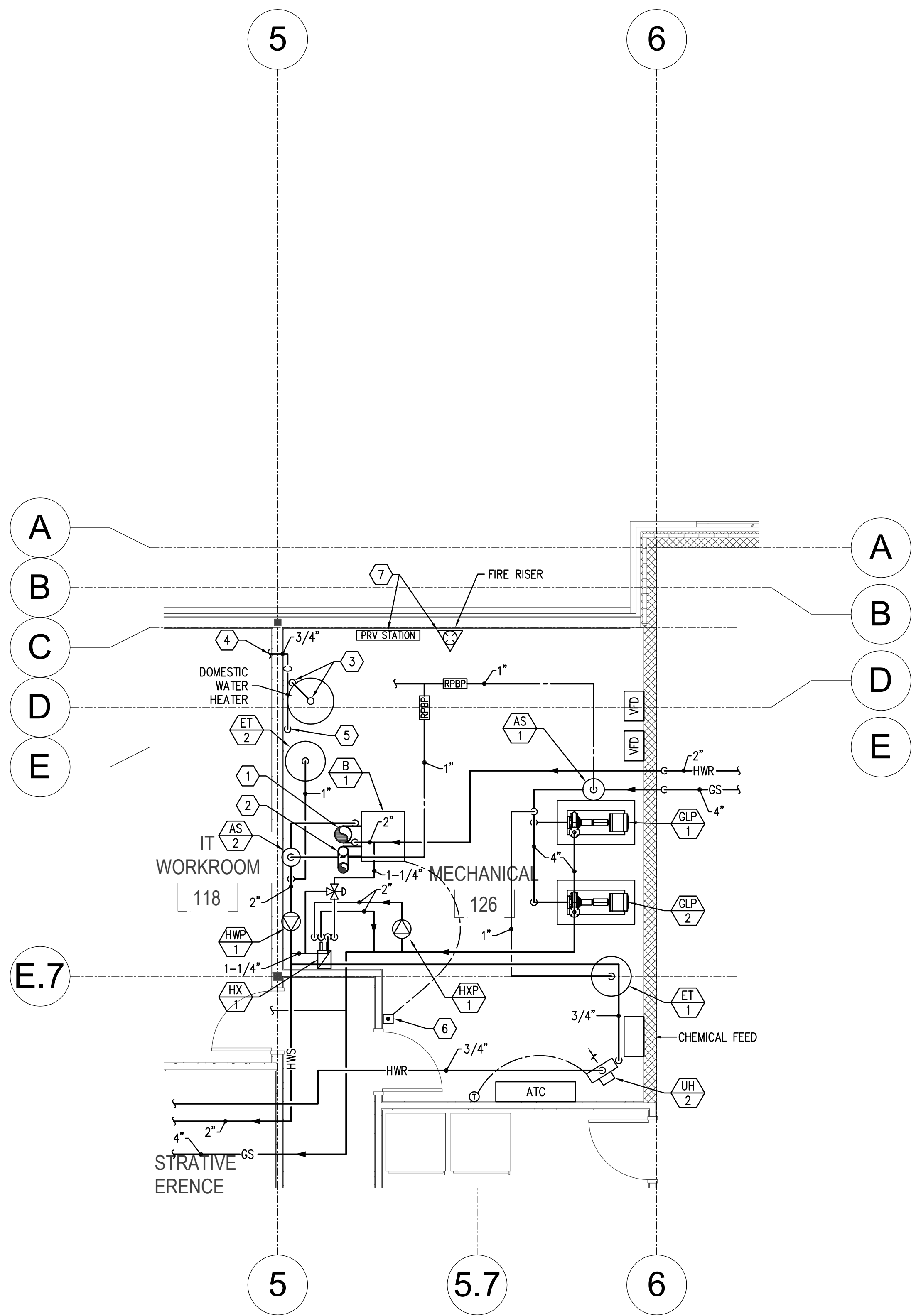
ANCILLARY  
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MECHANICAL PLAN

ME102

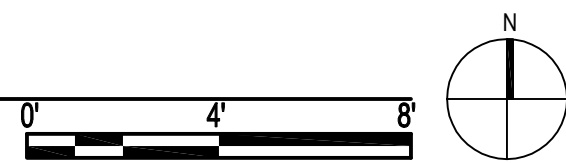


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1 ENLARGED MECHANICAL ROOM PLAN  
ME401 SCALE 1/4" = 1'-0"



## # KEYED NOTES

1. 10" CATEGORY IV STAINLESS STEEL VENT PIPE UP THROUGH ROOF WITH MANUFACTURER'S APPROVED TYPE VENT CAP. RUN CONDENSATE LINE TO NEAREST FLOOR DRAIN.
2. 6" COMBUSTION AIR DUCT UP THROUGH ROOF WITH GOOSENECK AND BIRD SCREEN PER MANUFACTURER'S RECOMMENDATIONS. OFFSET AS NECESSARY TO PROVIDE A MINIMUM OF 3 FT BETWEEN THE INTAKE OPENING AND VENT OUTLET.
3. 3" PVC INTAKE/EXHAUST PIPE UP TO A CONCENTRIC VENT THROUGH THE ROOF.
4. 3/4" CONDENSATE LINE FROM SERVER ROOM
5. DROP 3/4" CONDENSATE LINE AND SPILL TO FLOOR DRAIN. MAINTAIN 1" AIR GAP.
6. ATC CONTRACTOR TO INSTALL EMERGENCY BOILER SHUTDOWN PANIC BUTTON AT EXIT DOOR AND SHALL INTERLOCK WITH THE BOILER TO SHUT DOWN IF PUSHED.
7. SEE PLUMBING PLANS FOR EQUIPMENT AND DOMESTIC WATER PIPING AND FIRE RISER.

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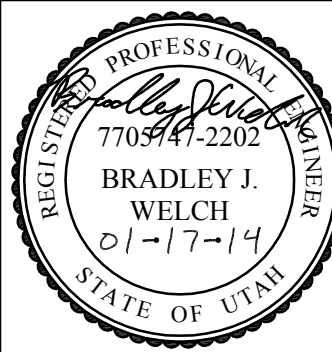
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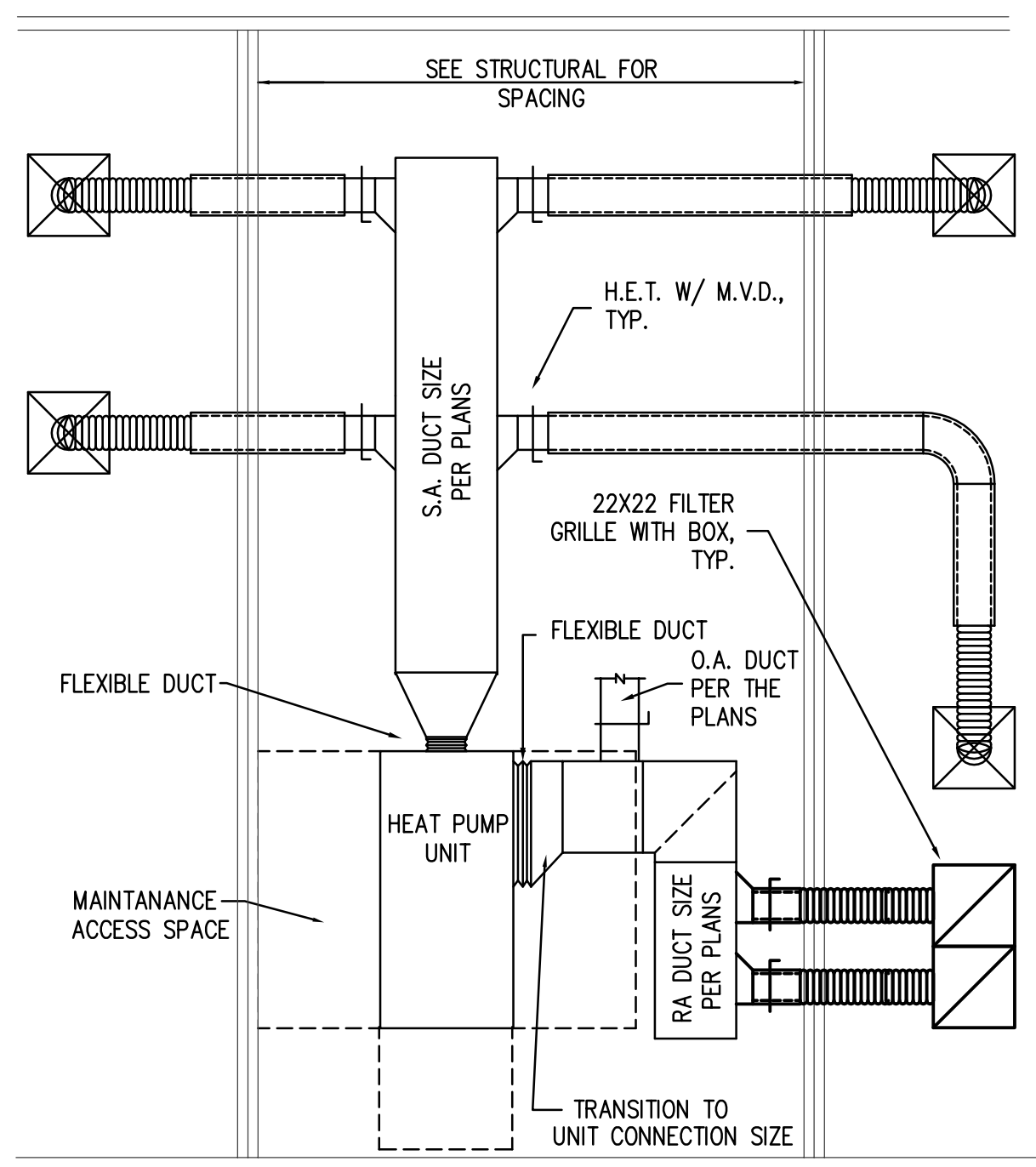
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ENLARGED  
MECHANICAL ROOM  
PLAN

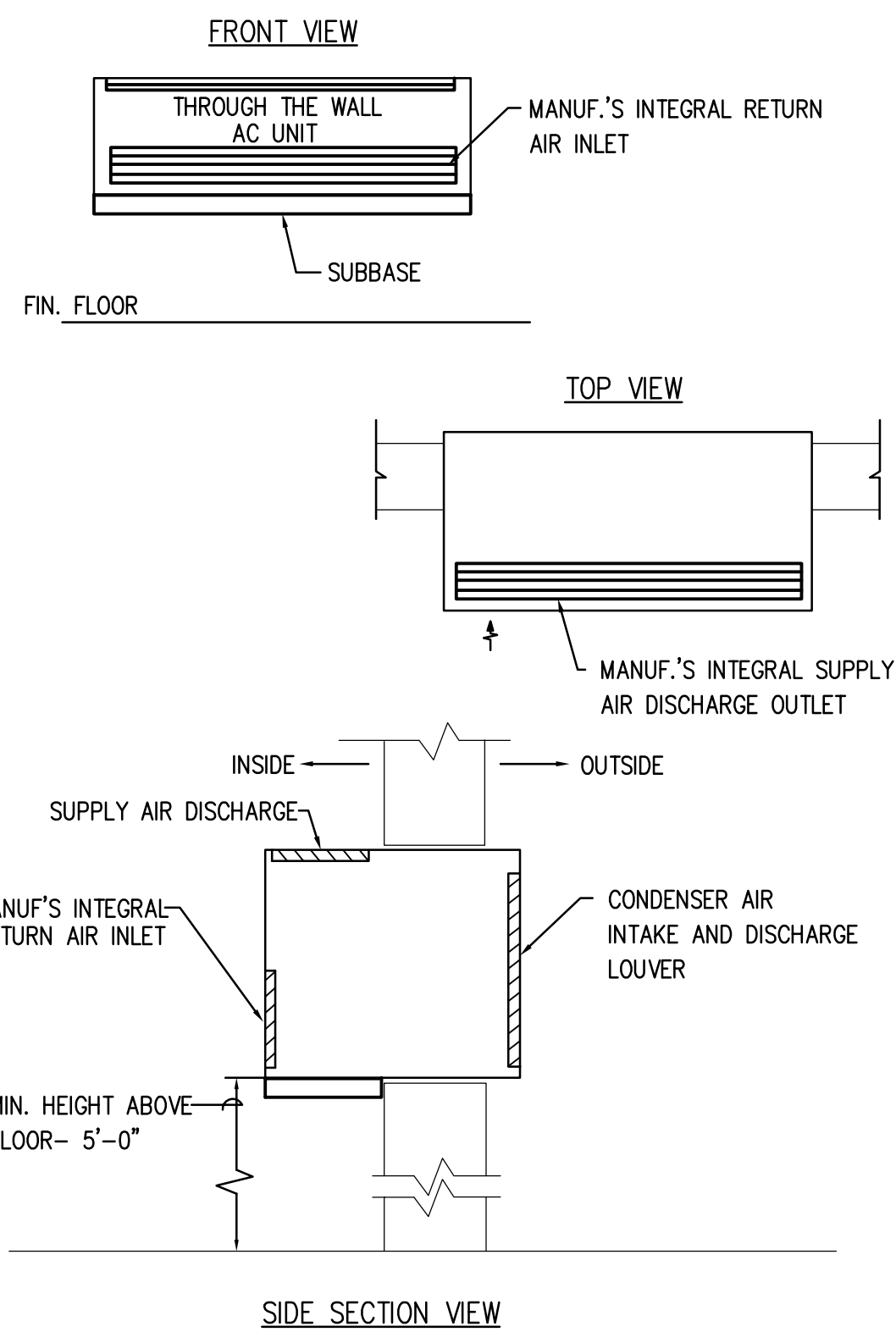
ME401





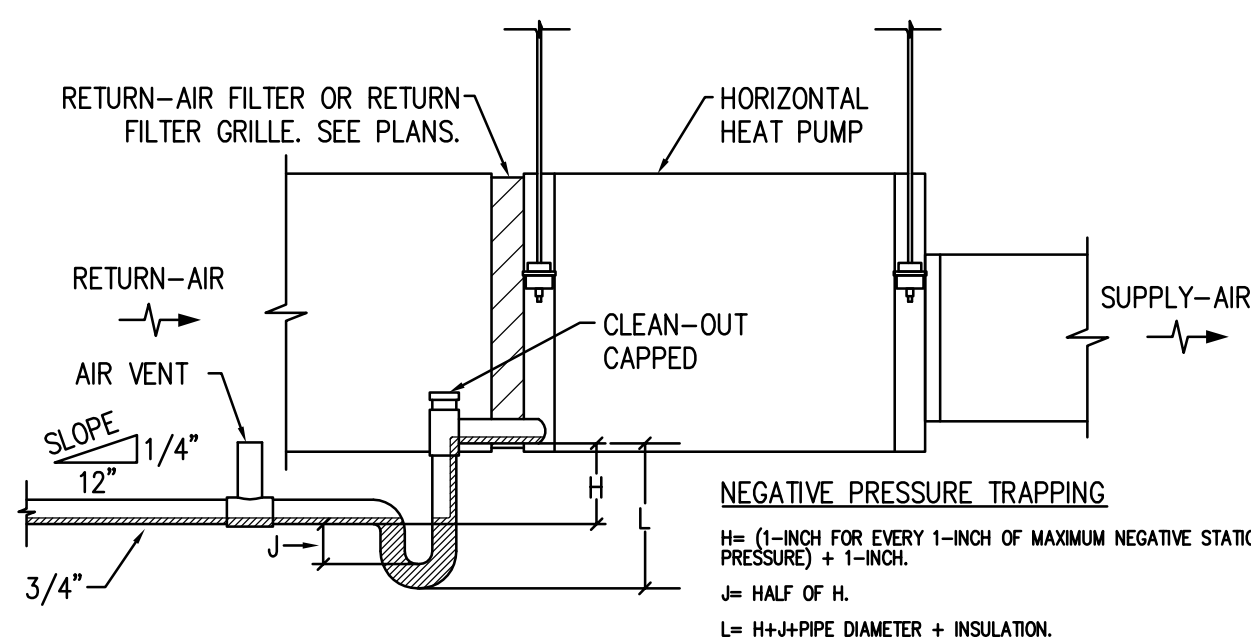
**16 TYPICAL HEAT PUMP INSTALLATION LAY-IN CEILING**

ME501 NO SCALE



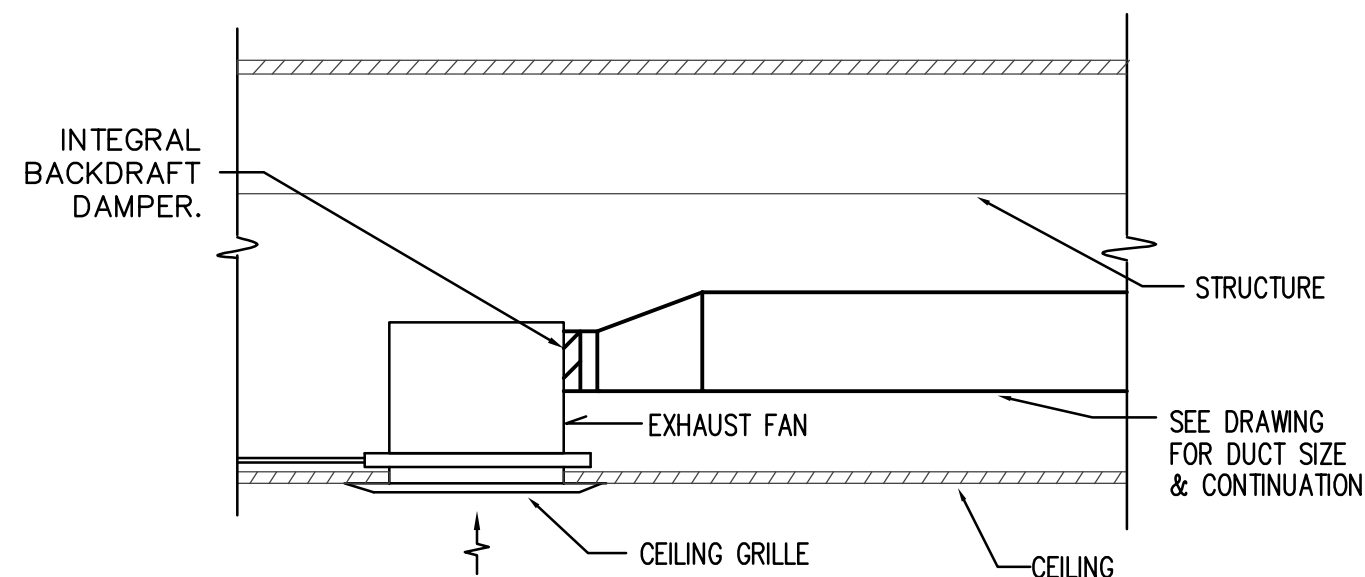
**17 PACKAGED TERMINAL AIR CONDITIONER DETAIL**

ME501 NO SCALE



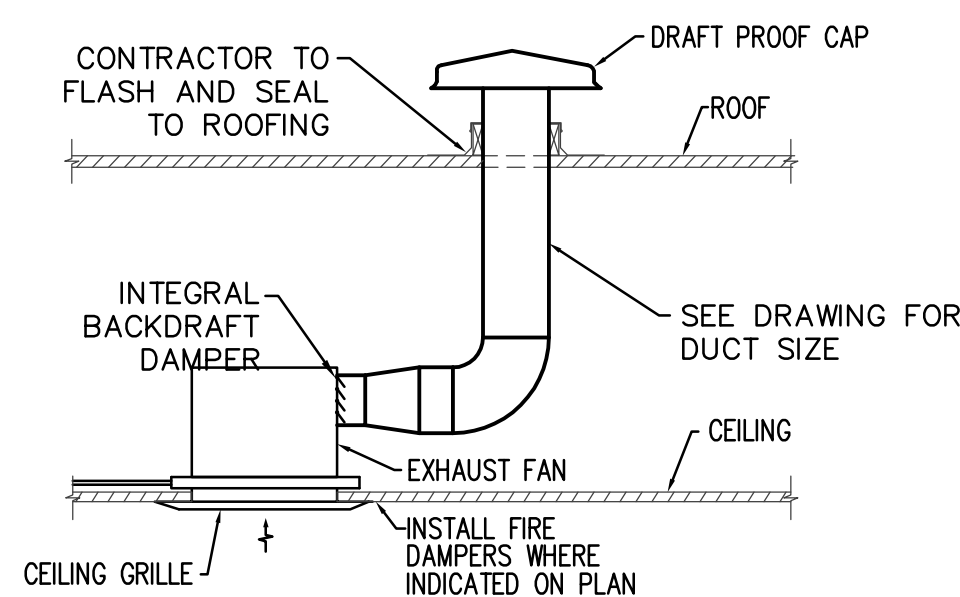
**18 HEAT PUMP CONDENSATE P-TRAP DETAIL**

ME501 NO SCALE



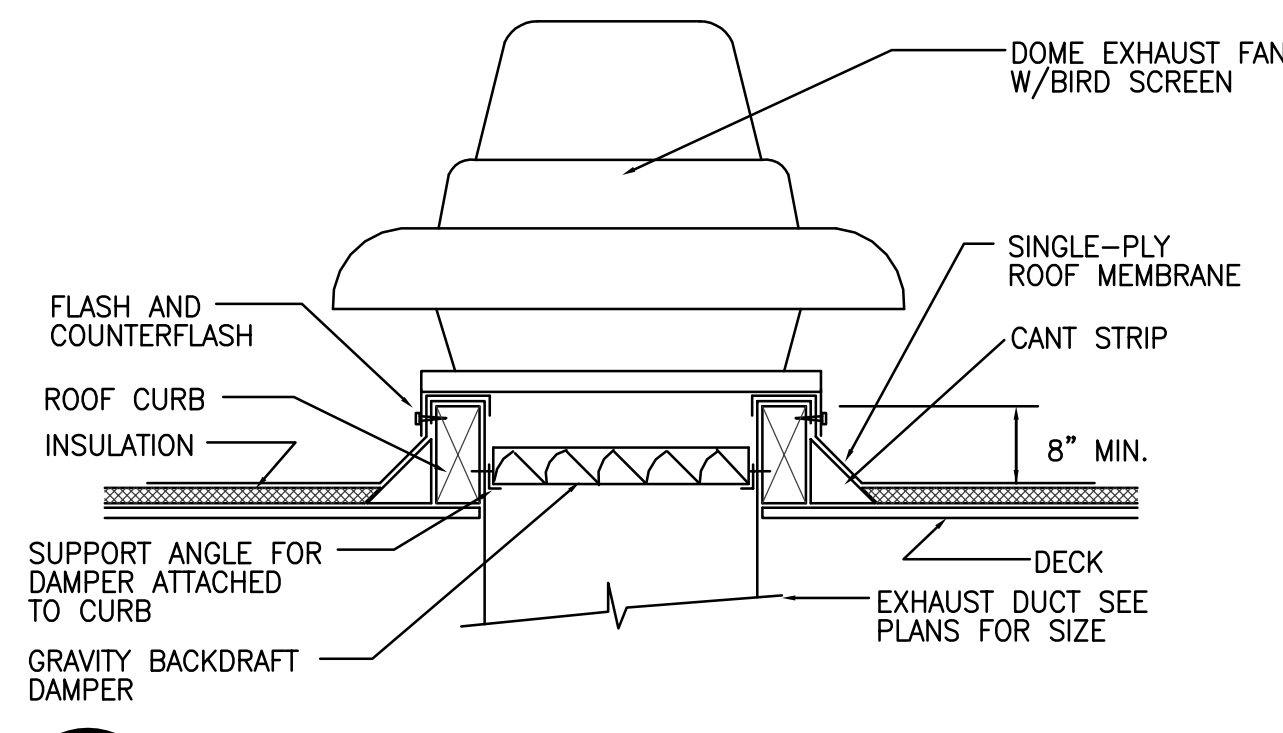
**11 CEILING EXHAUST FAN DETAIL**

ME501 NO SCALE



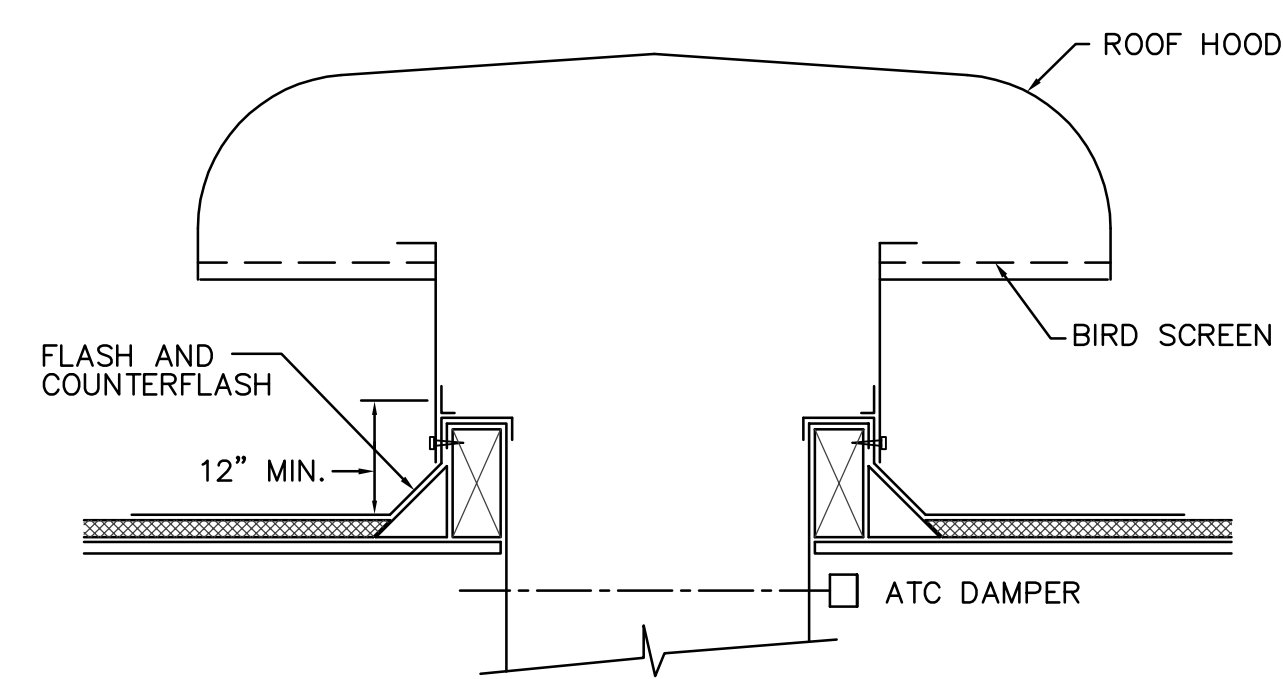
**12 CEILING EXHAUST FAN DETAIL**

ME501 NO SCALE



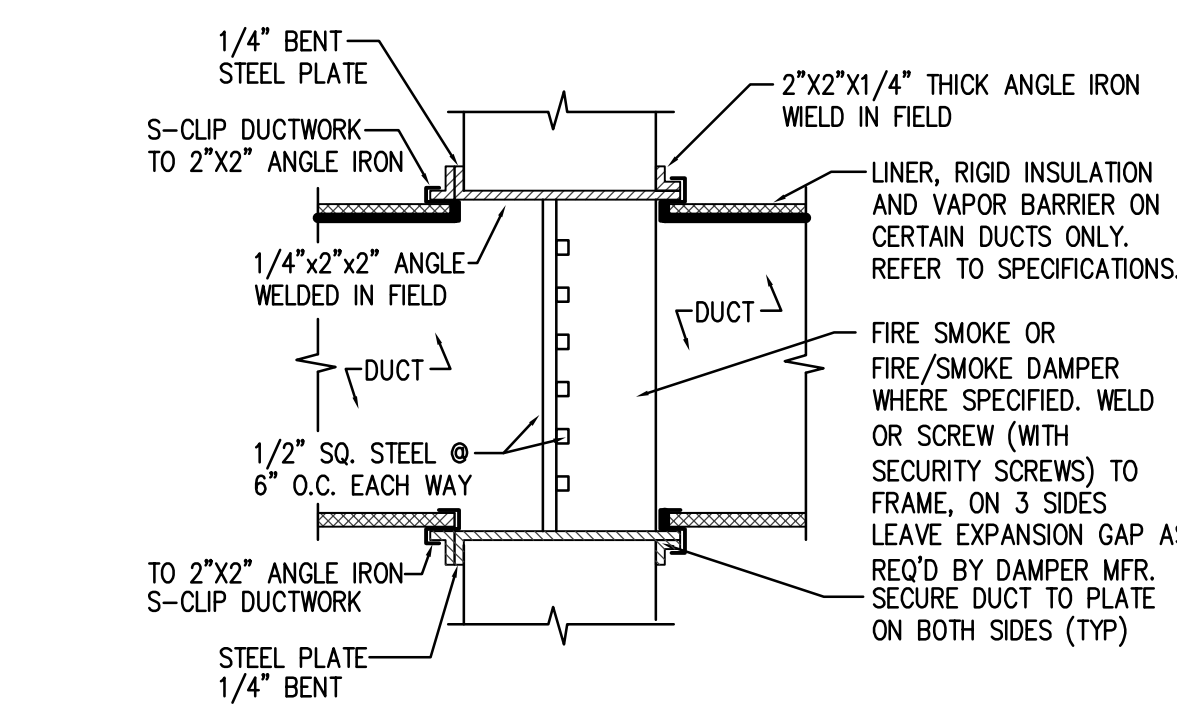
**13 EXHAUST FAN DETAIL**

ME501 NO SCALE



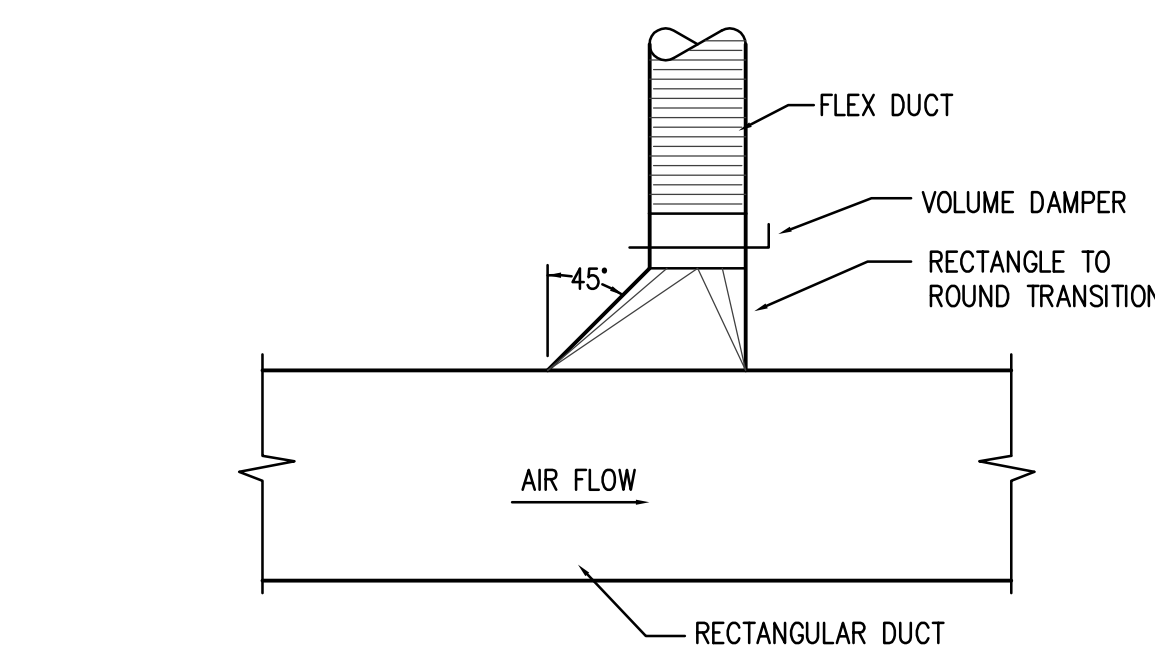
**14 ROOF HOOD DETAIL**

ME501 NO SCALE



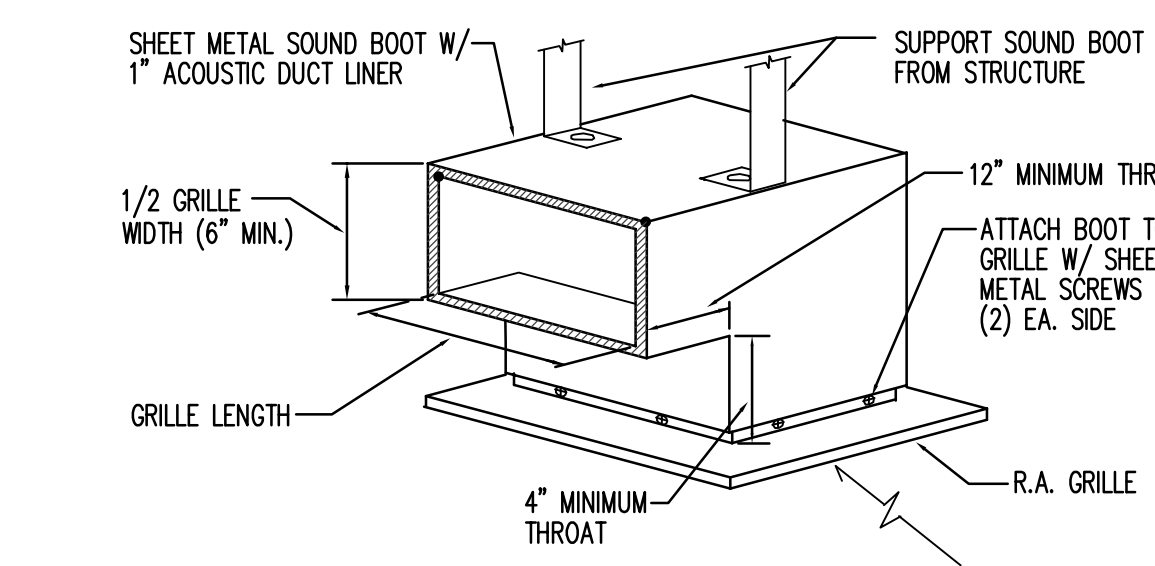
**15 SECURITY BAR (FOR PENETRATIONS IN SECURITY WALLS)**

ME501 NO SCALE



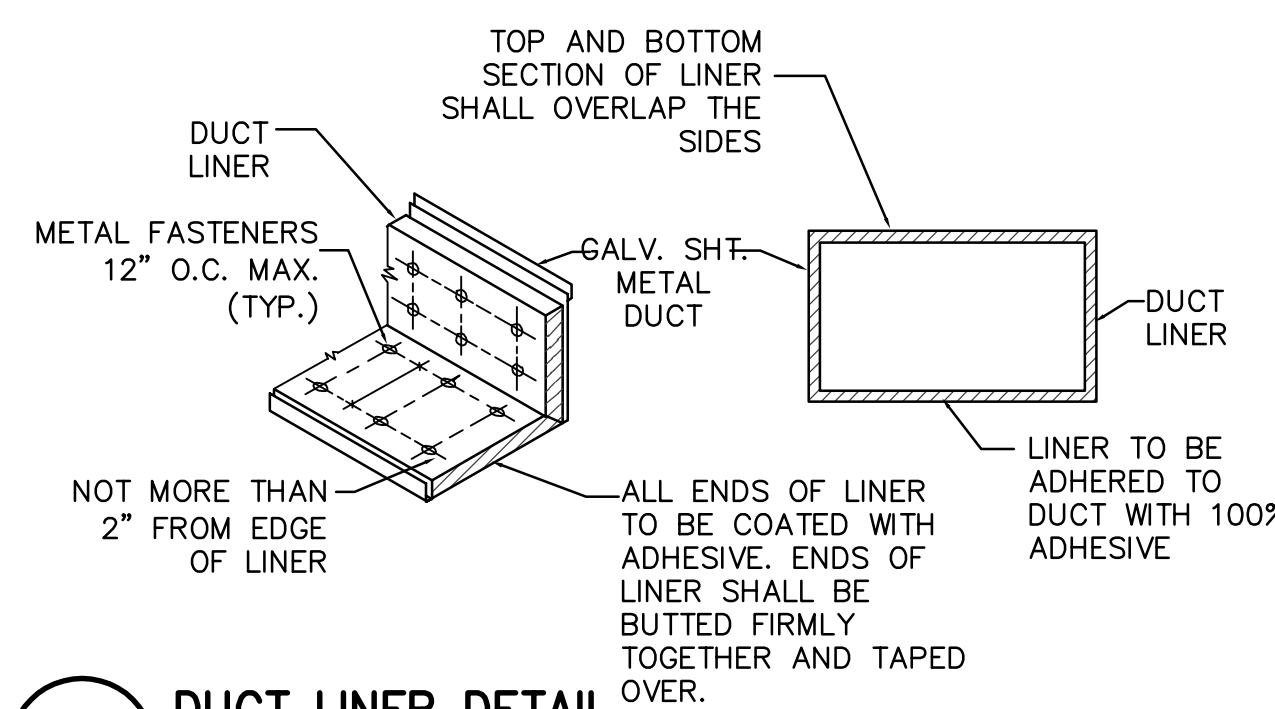
**6 HIGH EFFICIENCY TAKE-OFF DETAIL**

ME501 NO SCALE



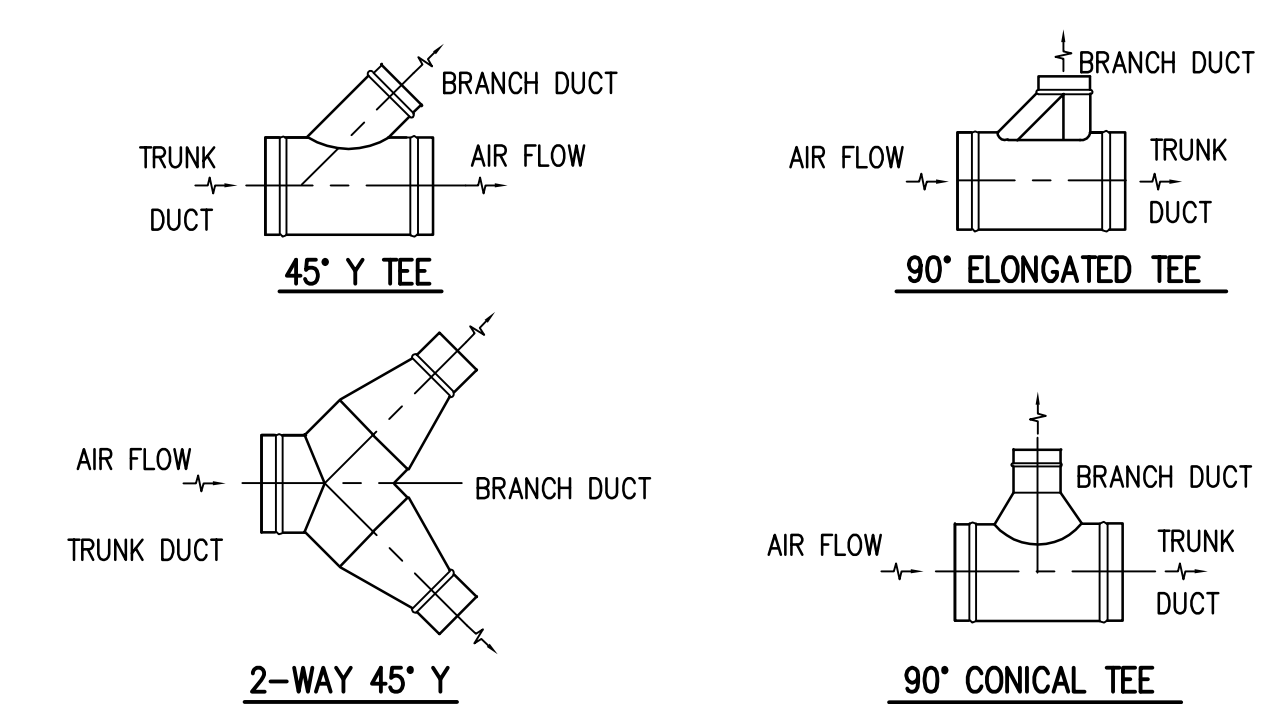
**7 GRILLE WITH SOUND BOOT DETAIL**

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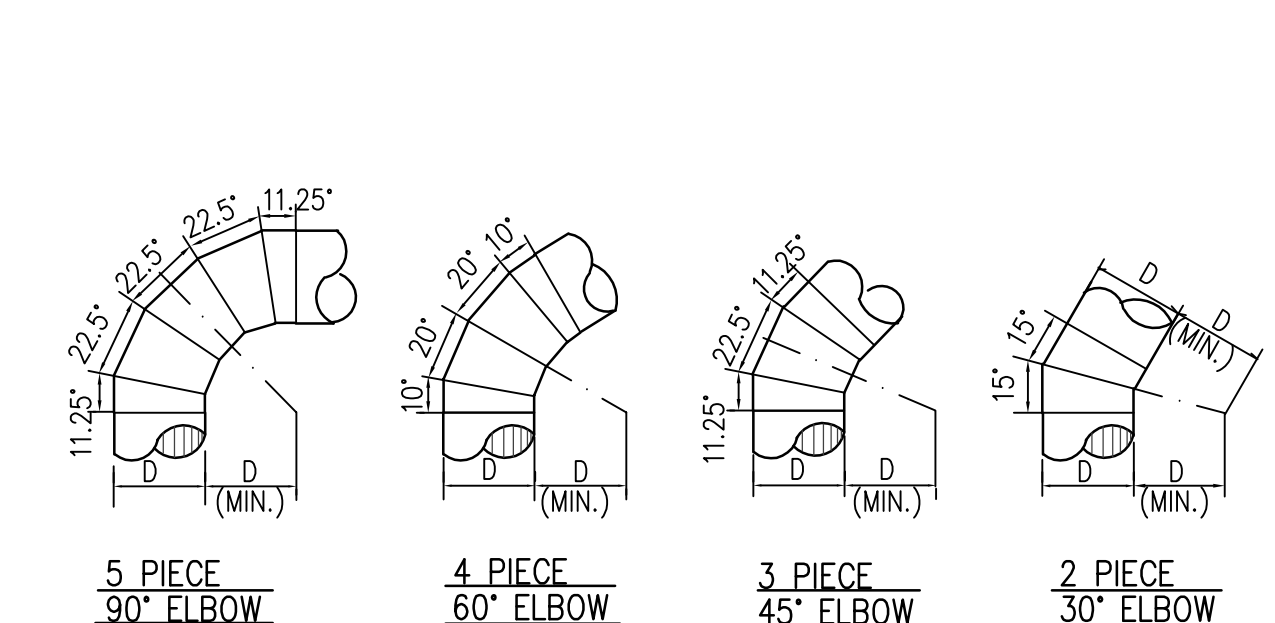
**8 DUCT LINER DETAIL**

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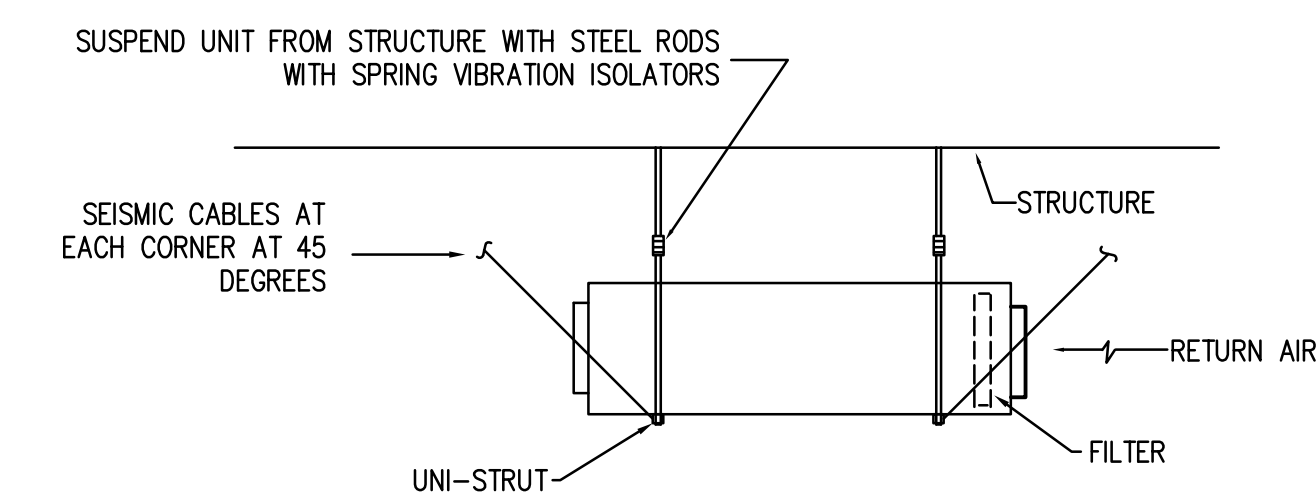
**9 ROUND DUCT BRANCH TAKE-OFF DETAILS**

ME501 NO SCALE



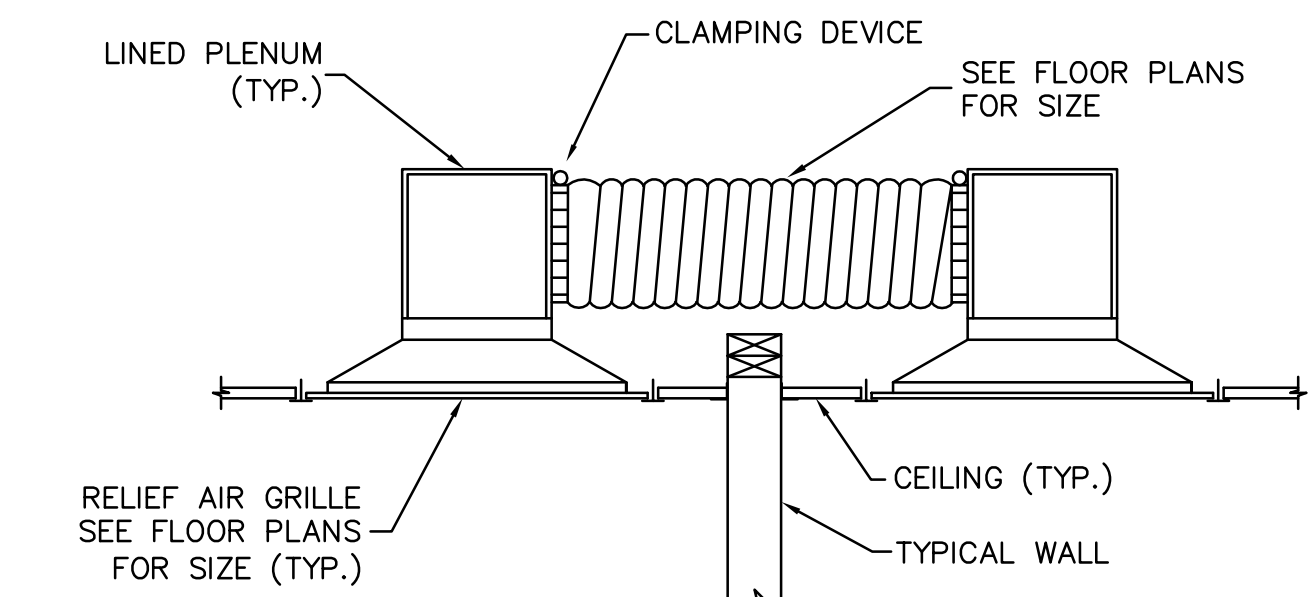
**10 ROUND DUCT ELBOW DETAILS**

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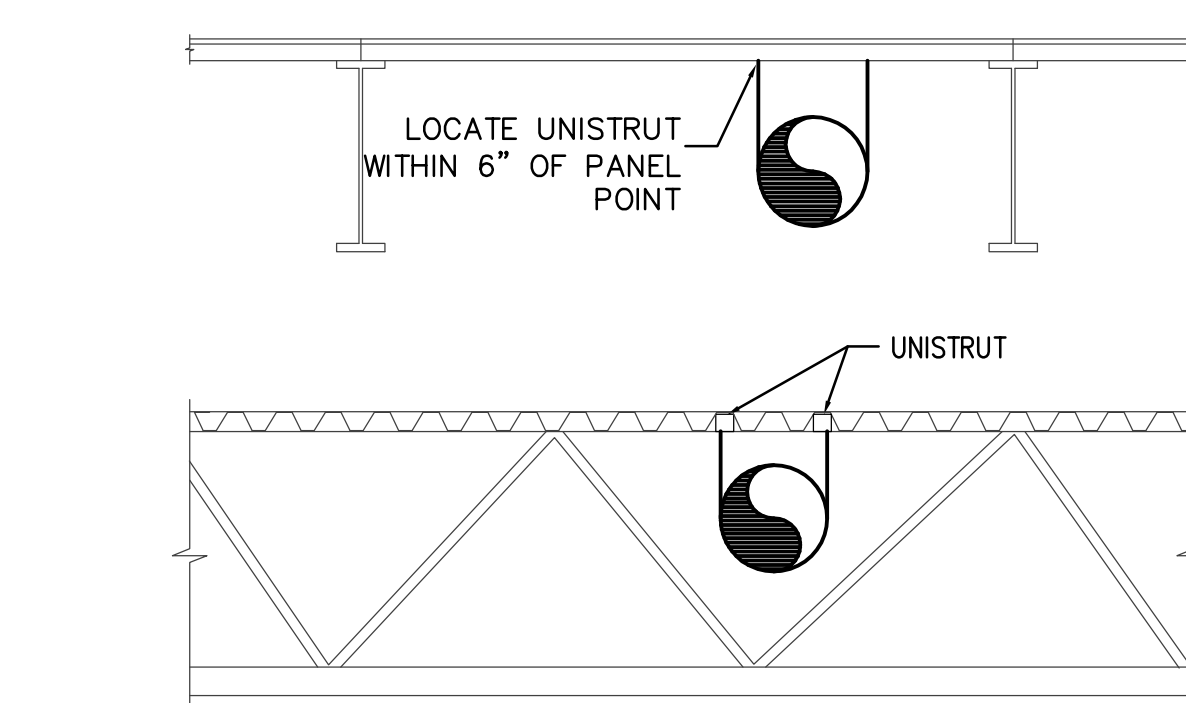
**1 CEILING MOUNTED FAN COIL UNIT**

ME501 NO SCALE



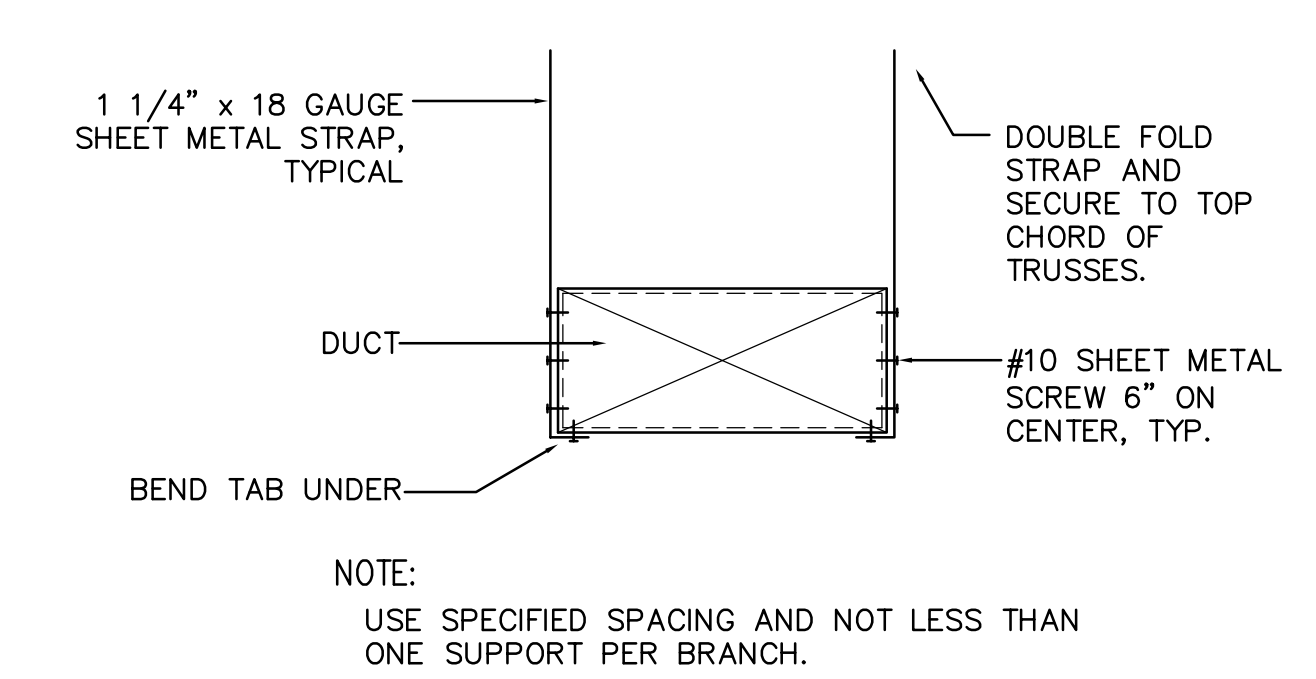
**2 TRANSFER AIR GRILLE (TRANSFER ASSEMBLY)**

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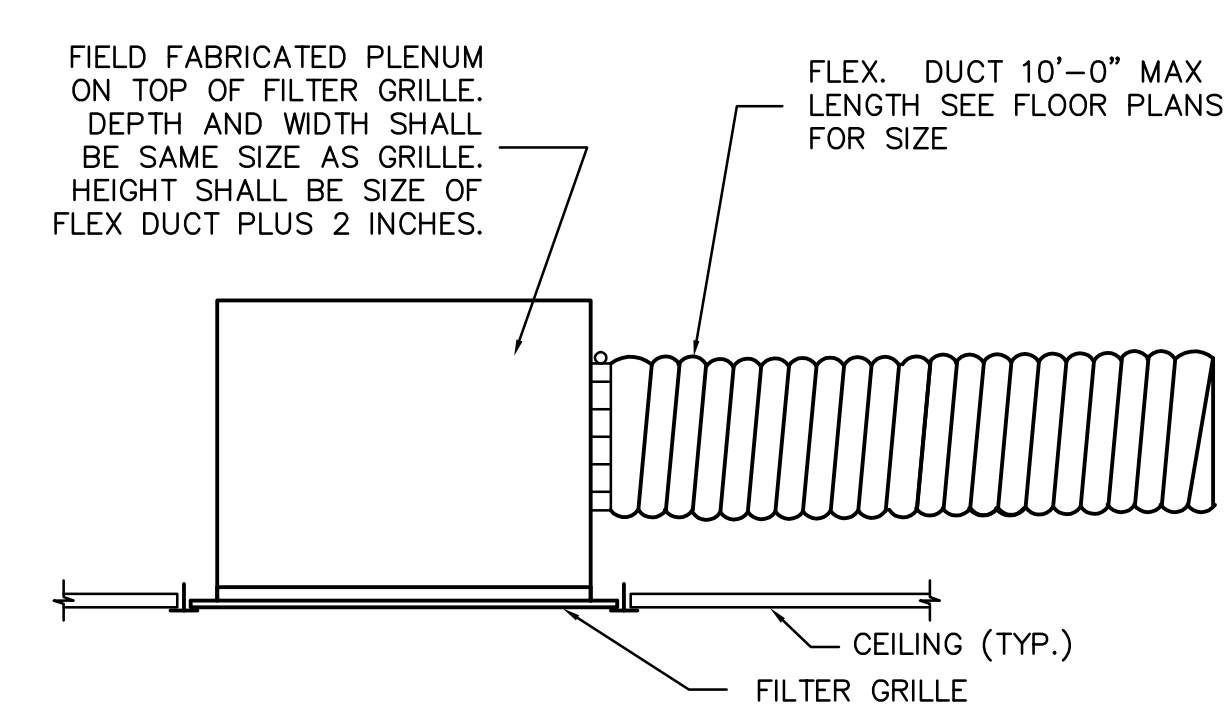
**3 SUPPORT DETAIL**

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**4 RECTANGULAR DUCT SUPPORT DETAIL**

ME501 NO SCALE



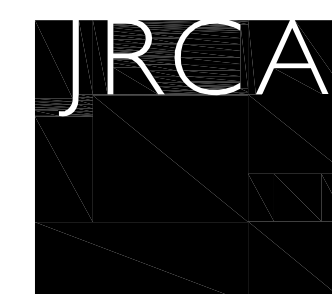
**5 FILTER RETURN GRILLE DETAIL**

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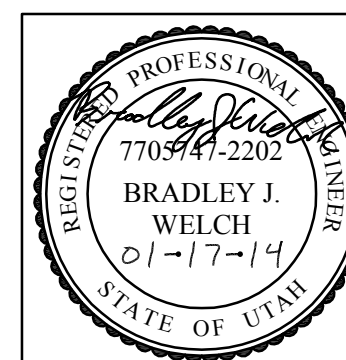
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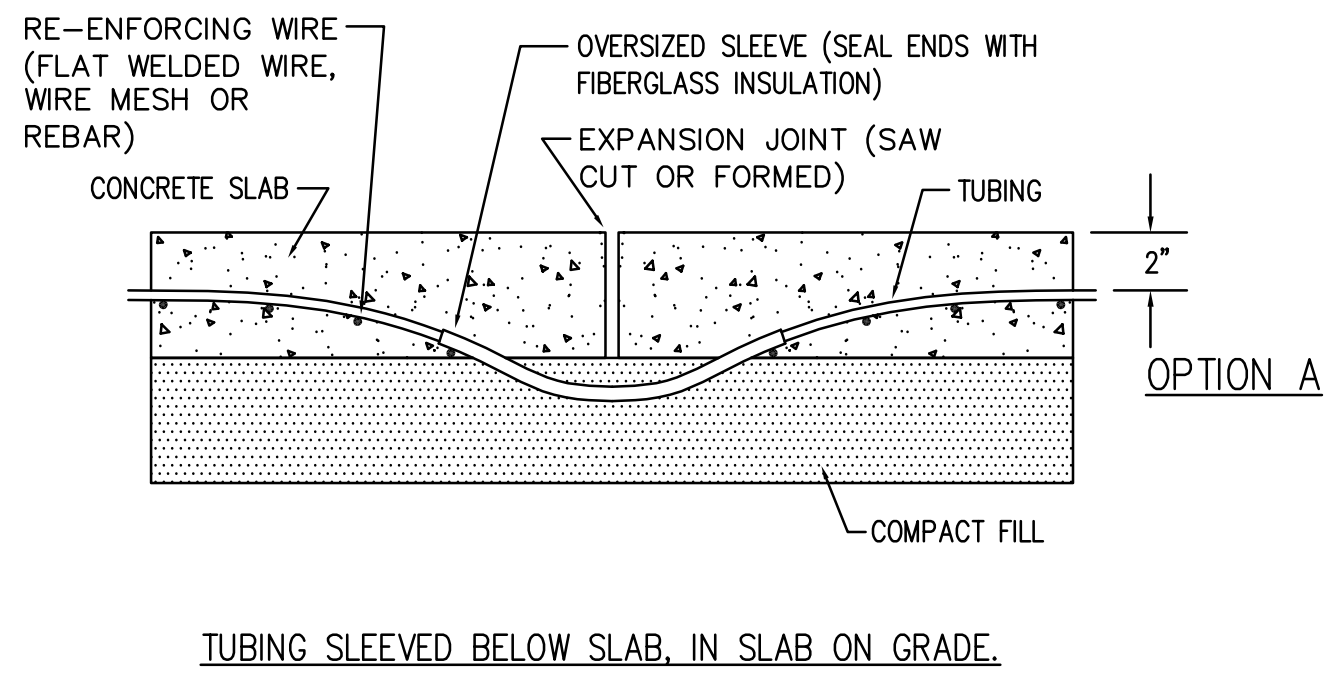
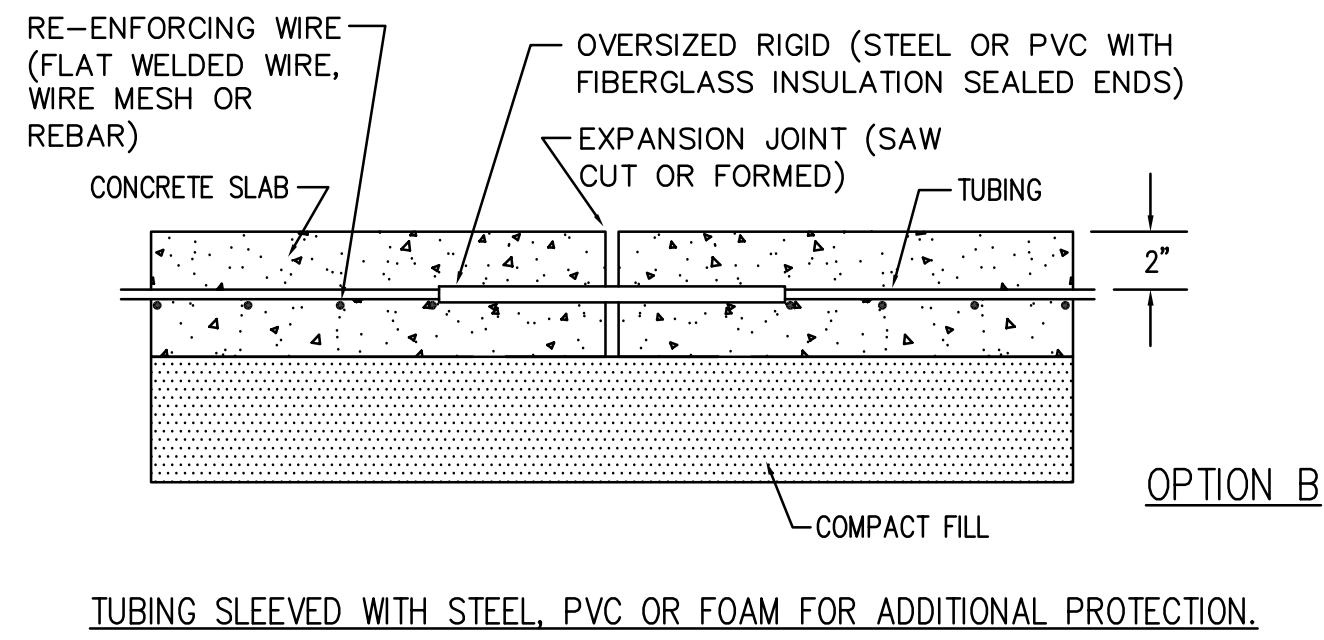
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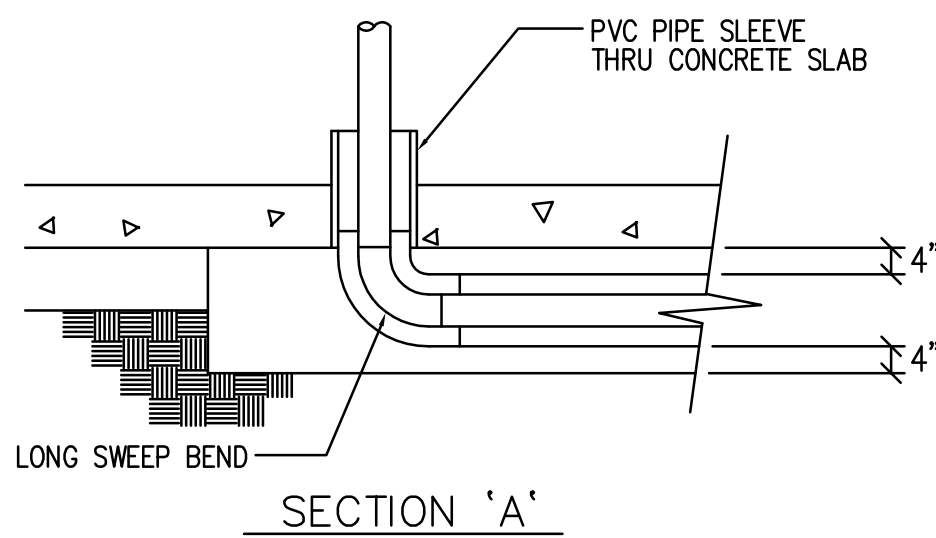
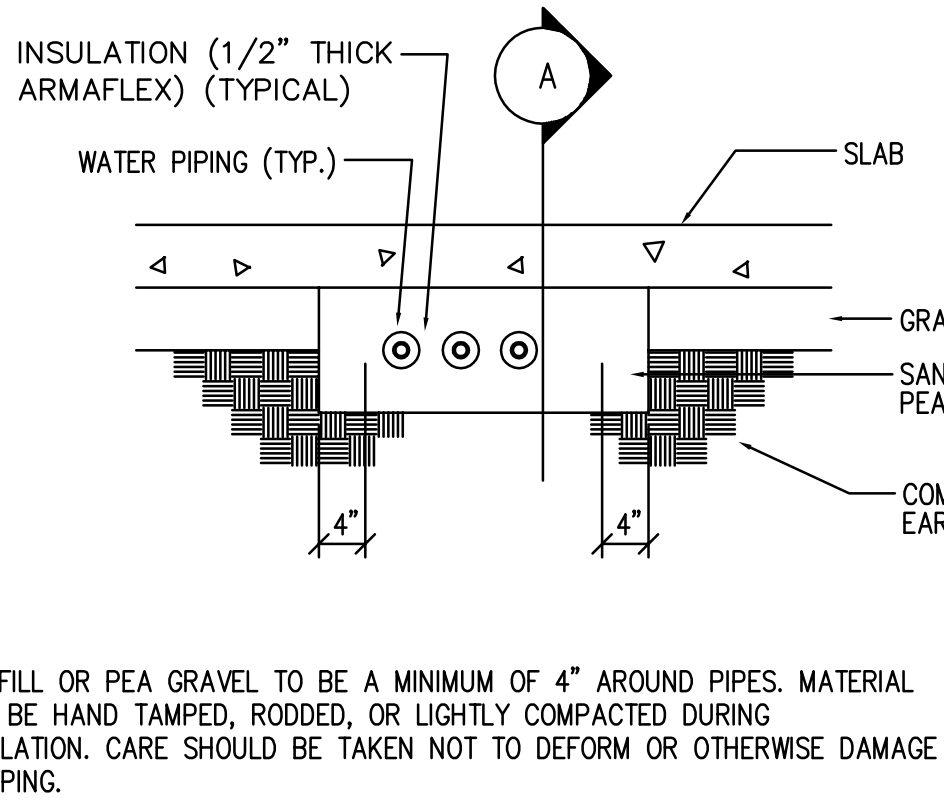
MECHANICAL  
DETAILS

ME501

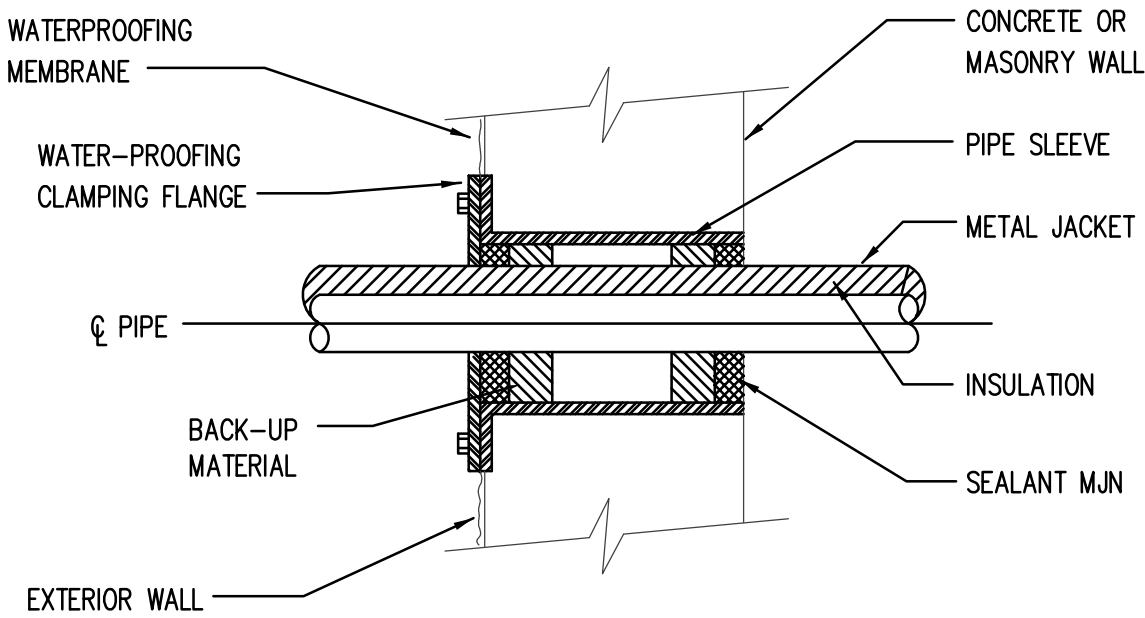




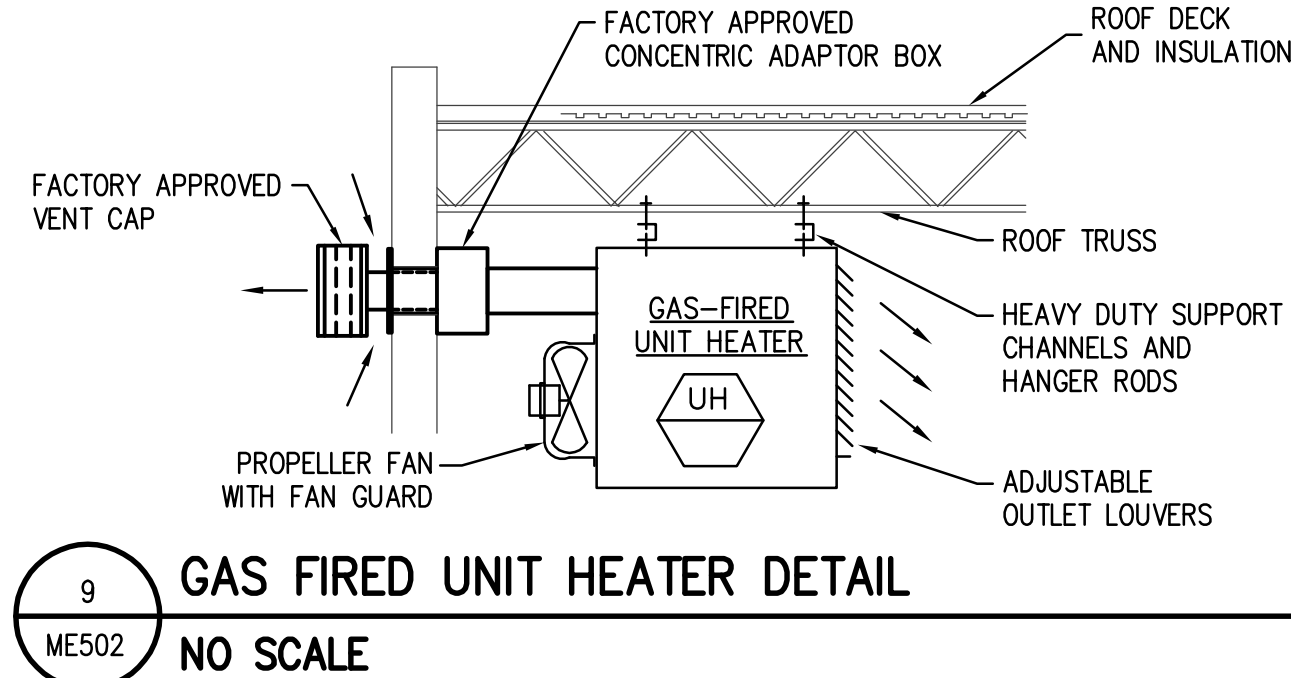
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ME-502 NO SCALE



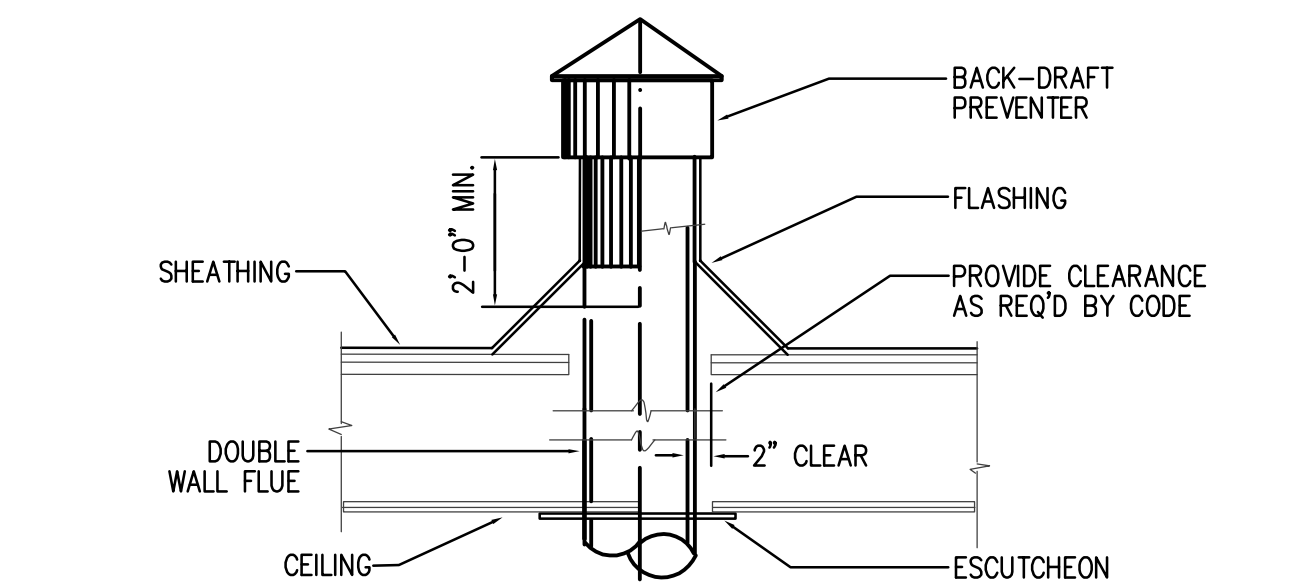
14 UNDER-SLAB PIPING DETAIL  
ME-502 NO SCALE



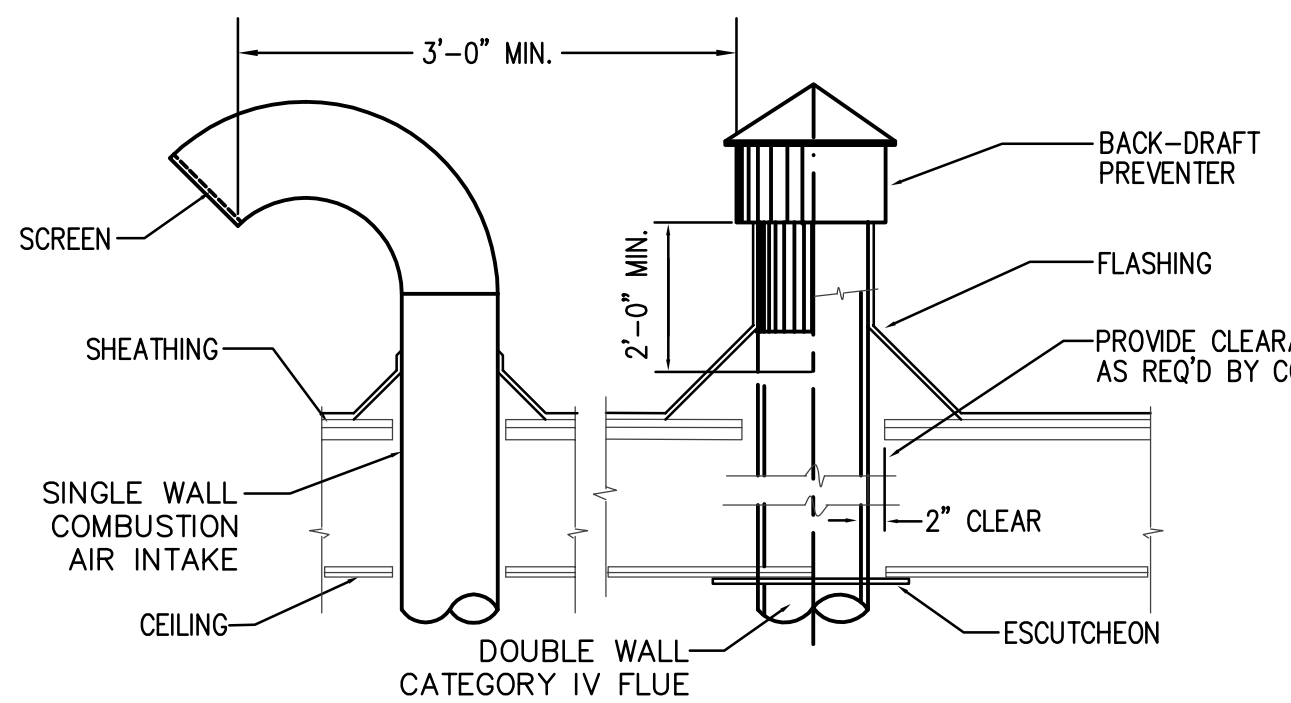
15 PIPE SLEEVE THRU EXTERIOR WALL OR FOUNDATION WALL (BELOW GRADE)  
ME-502 NO SCALE



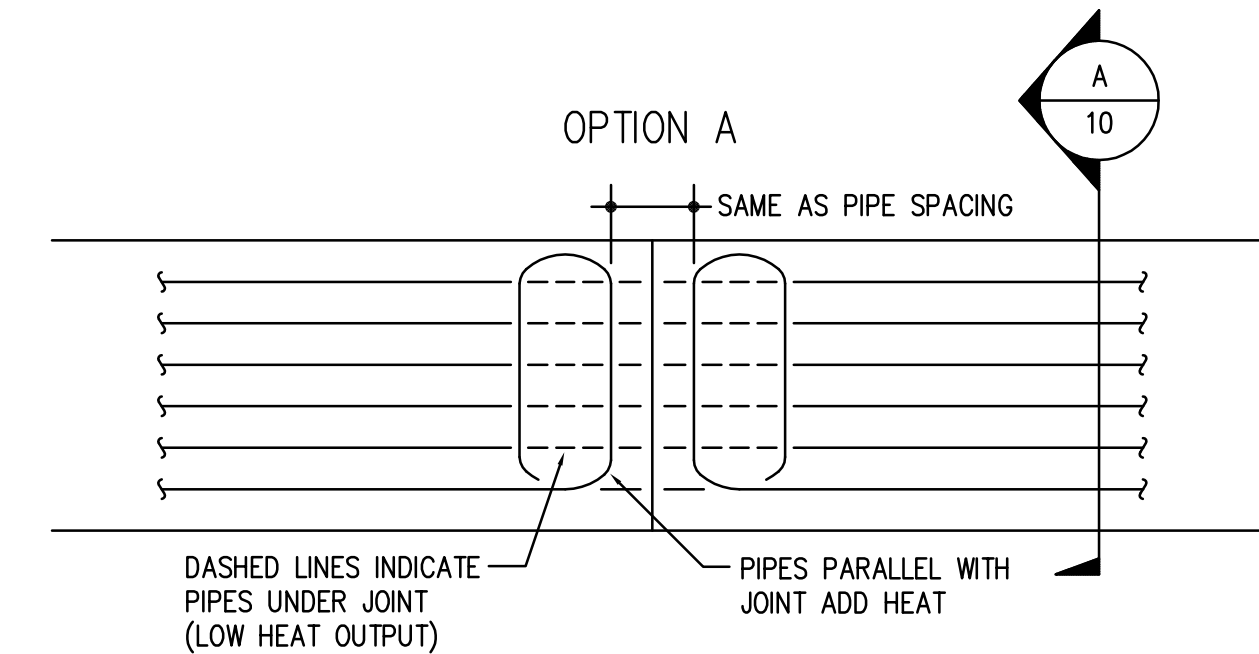
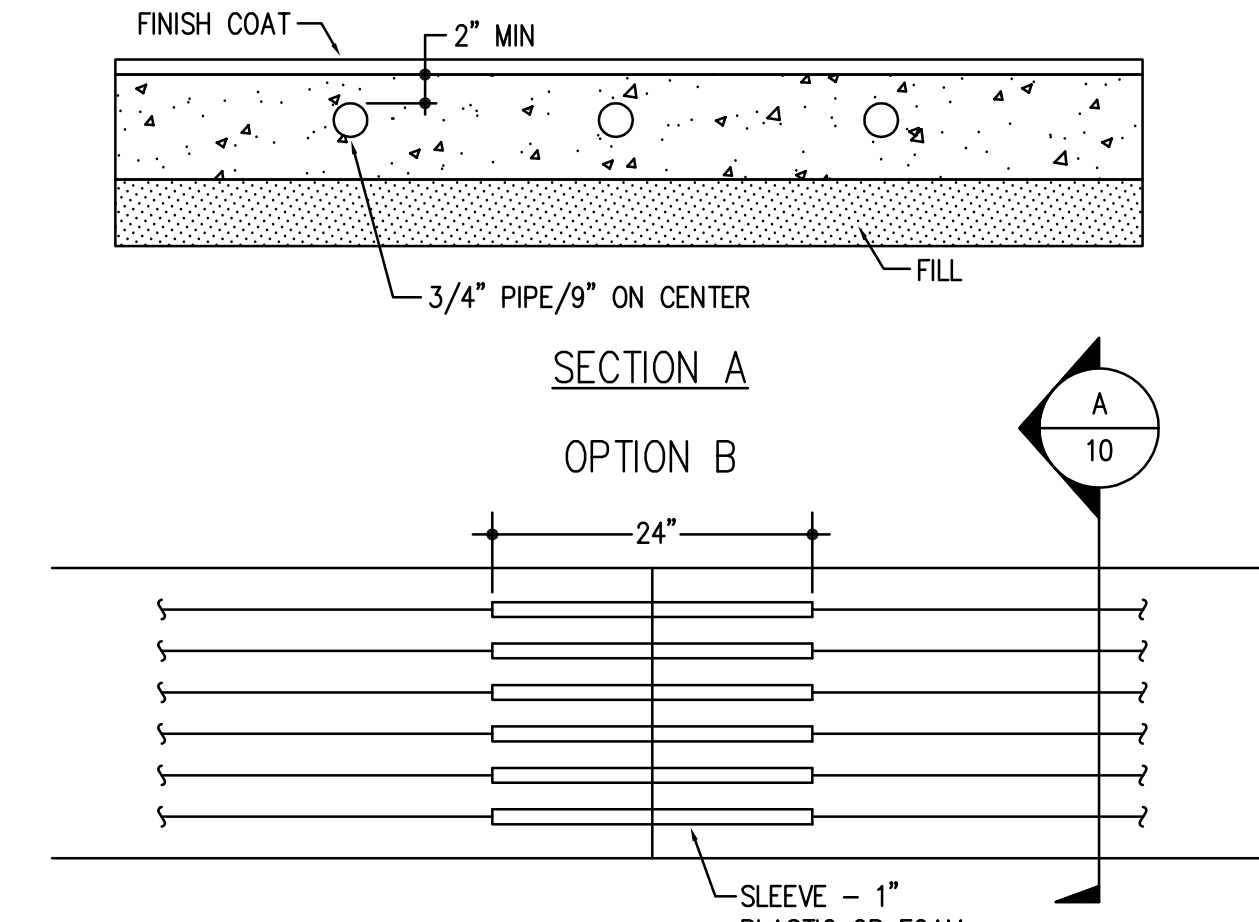
9 GAS FIRED UNIT HEATER DETAIL  
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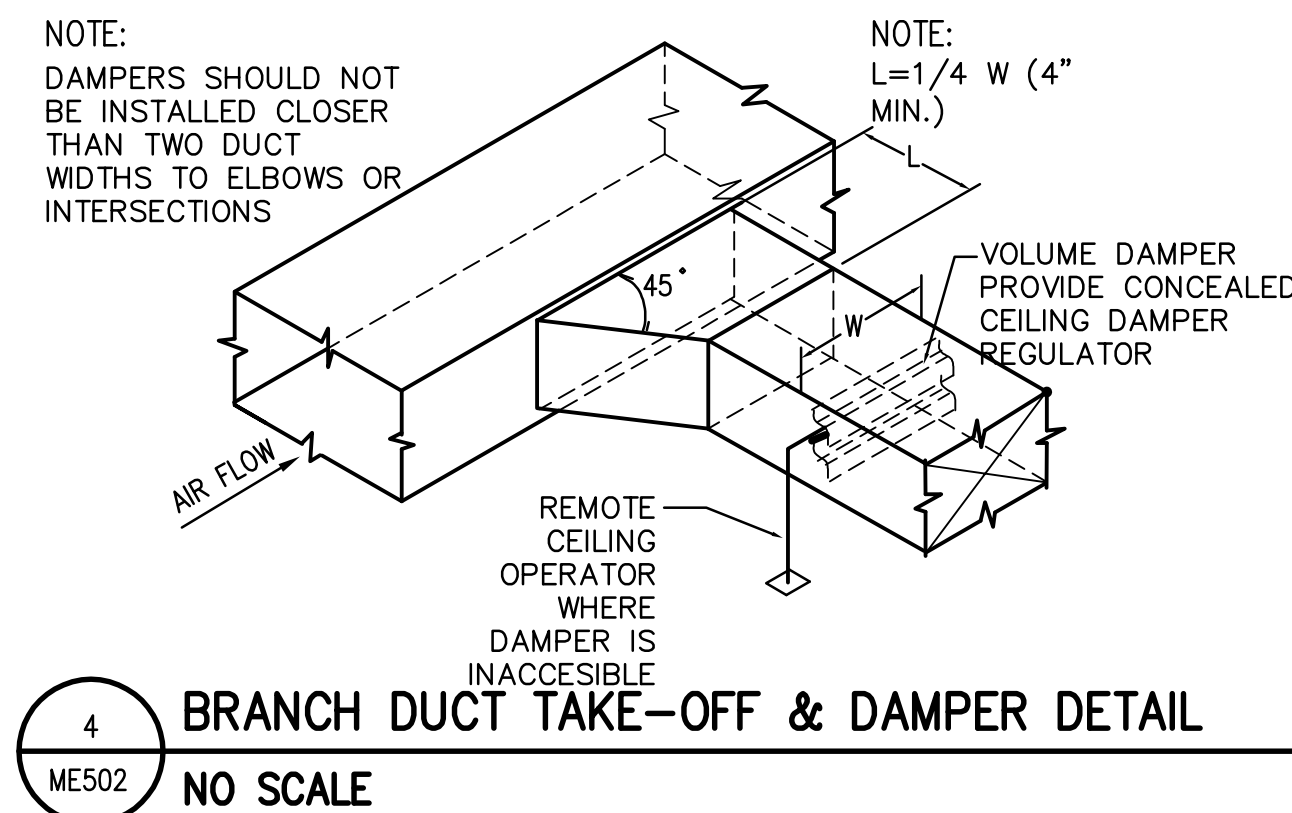
10 FLUE THRU ROOF DETAIL  
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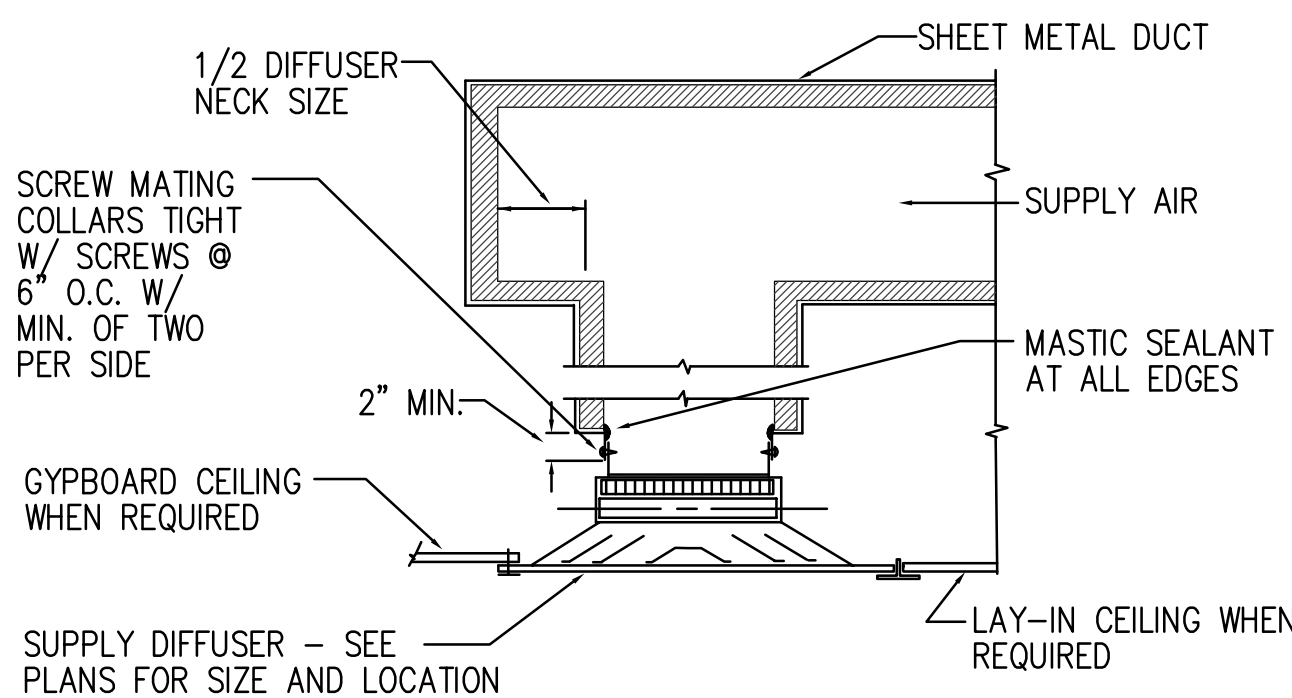
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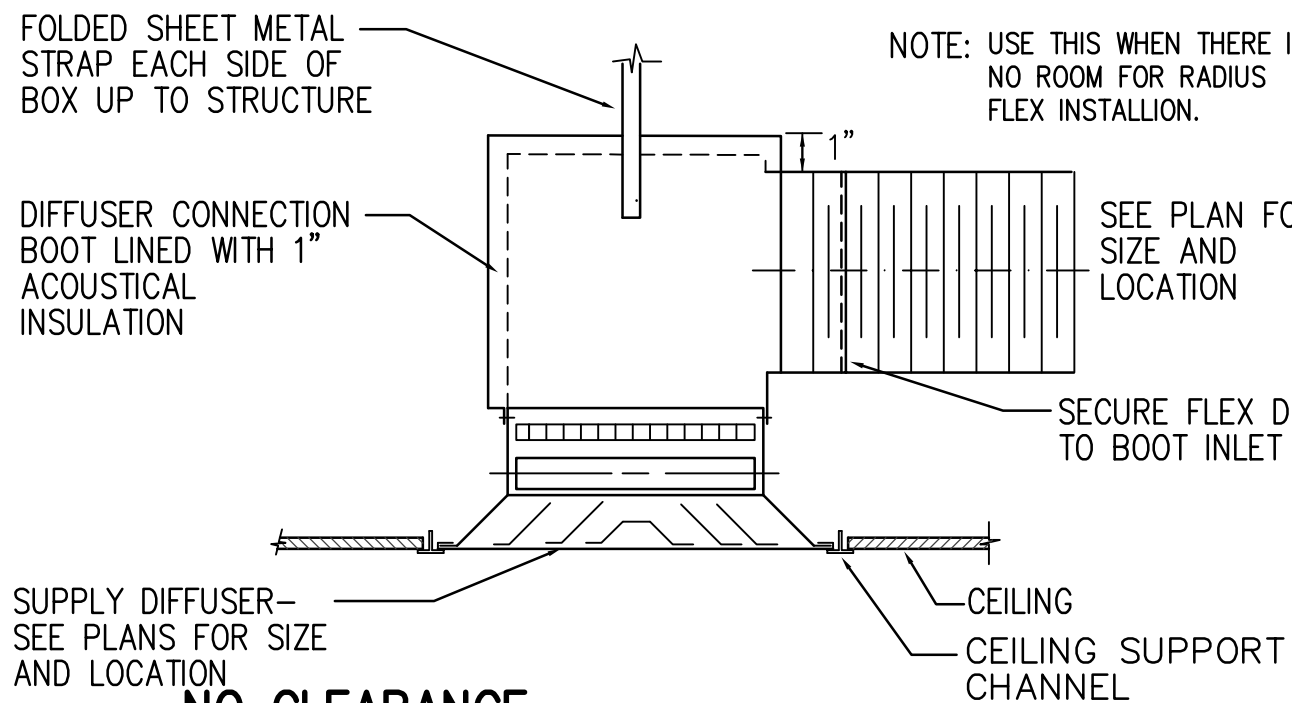
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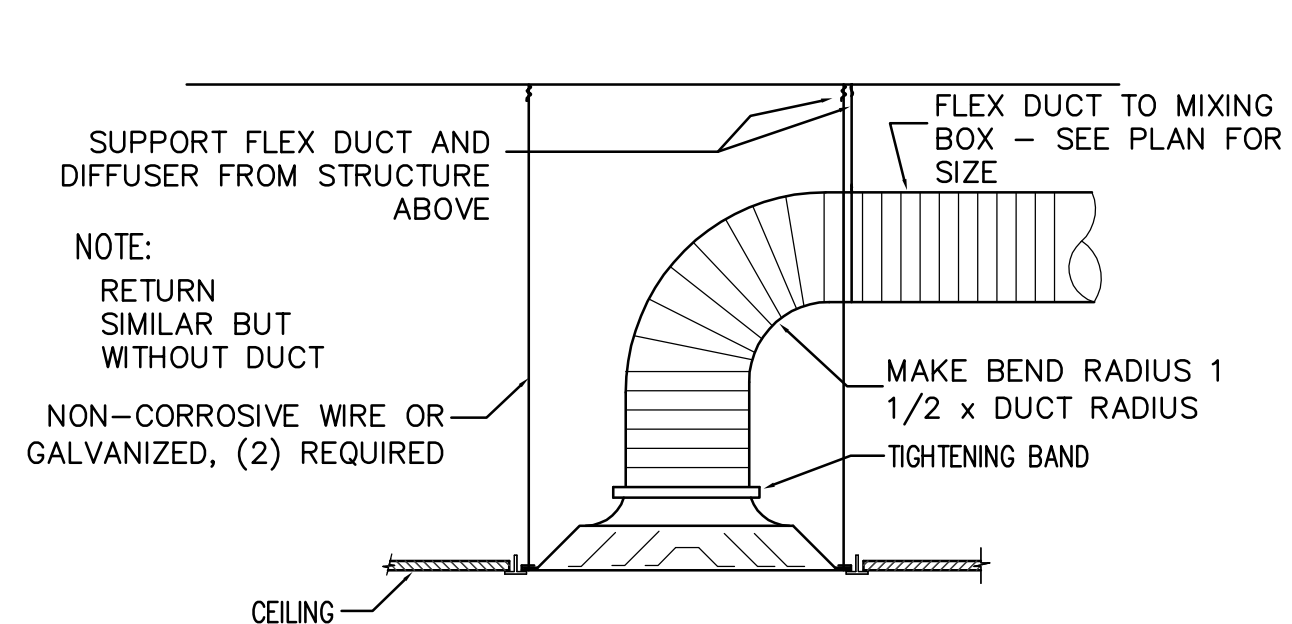
4 BRANCH DUCT TAKE-OFF & DAMPER DETAIL  
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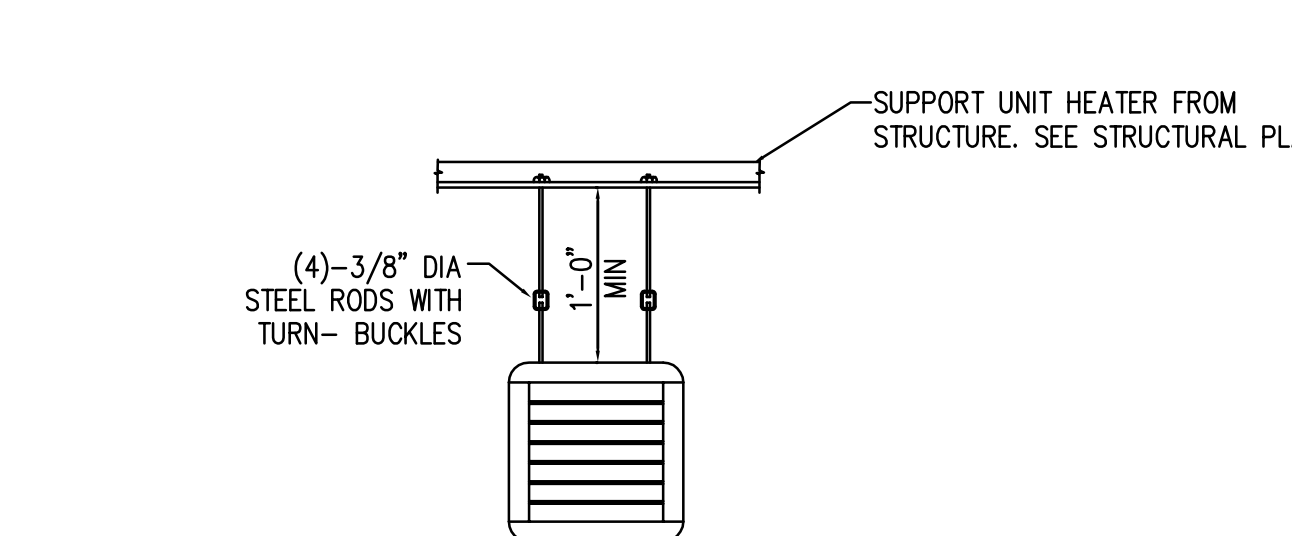
5 TYPICAL CEILING DIFFUSER DETAIL  
ME502 NO SCALE



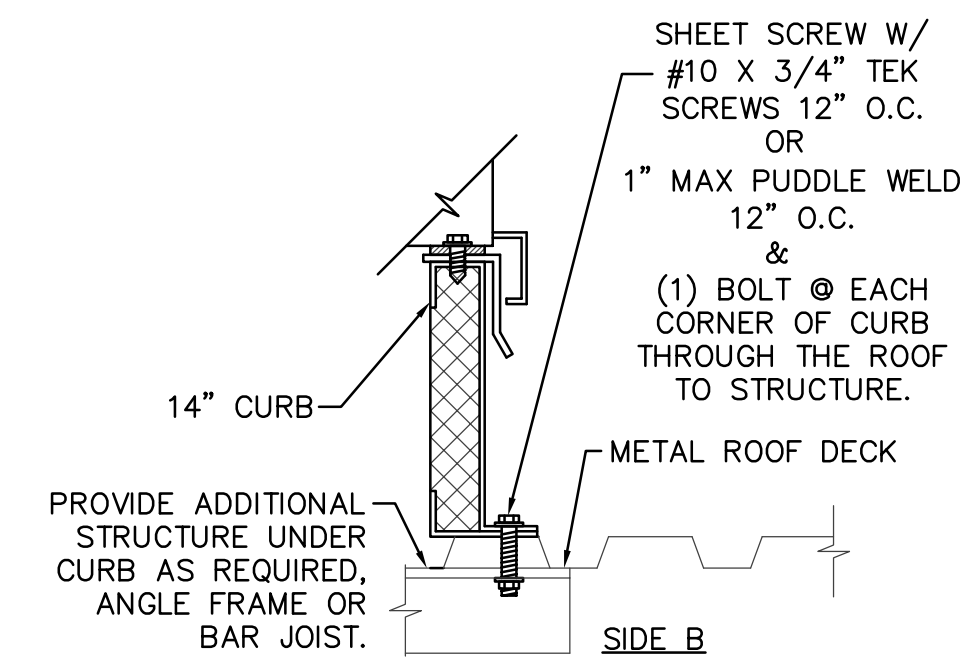
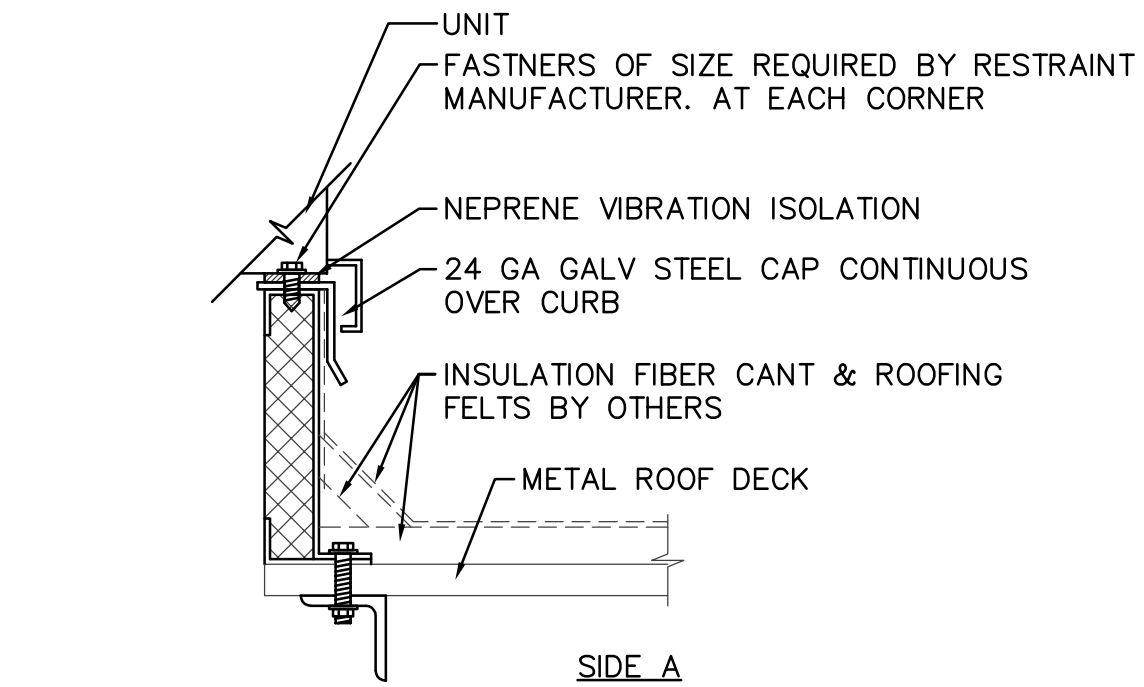
6 SUPPLY DIFFUSER W/FLEX DUCT DETAIL  
ME502 NO SCALE



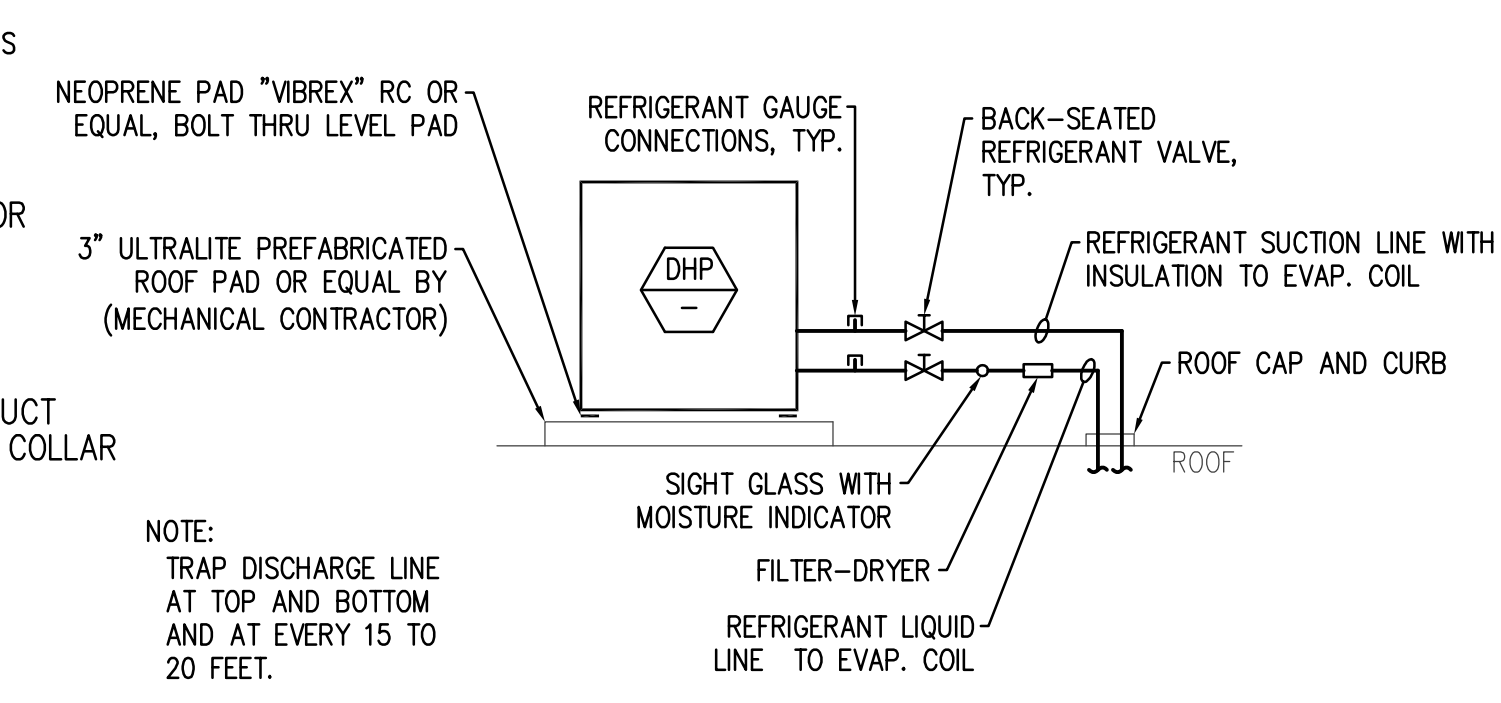
7 DIFFUSER CONNECTION DETAIL  
ME502 NO SCALE



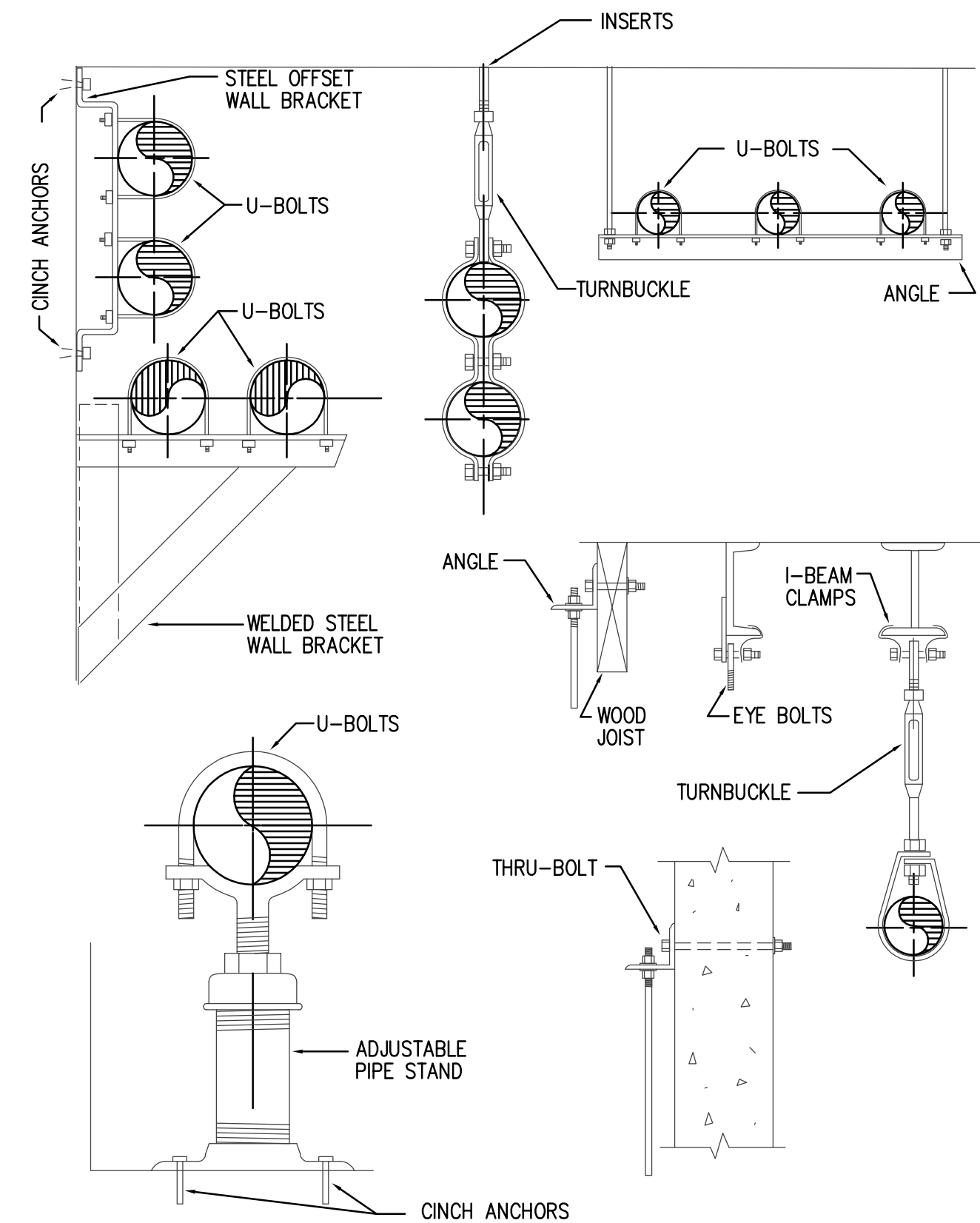
8 HOT WATER UNIT HEATER DETAIL  
ME502 NO SCALE



1 ROOF CURB INTALLED ON METAL ROOF DECK DETAIL  
ME502 NO SCALE



2 ROOF MOUNTED DUCTLESS HEAT PUMP  
ME502 NO SCALE

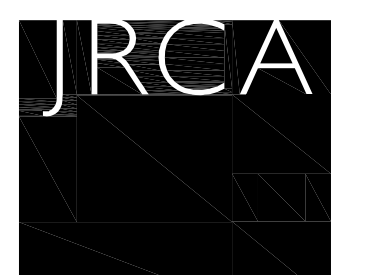


3 TYPICAL PIPE SUPPORT DETAIL  
ME502 NO SCALE

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|                             |                    |                                                                          |
|-----------------------------|--------------------|--------------------------------------------------------------------------|
| DATE/REVISION<br>04-04-2013 | PROJECT #<br>10002 | REGISTERED PROFESSIONAL<br>BRADLEY J. WELCH<br>01-17-14<br>STATE OF UTAH |
|-----------------------------|--------------------|--------------------------------------------------------------------------|

MECHANICAL  
DETAILS

ME502



| WATER TO AIR HEAT PUMP SCHEDULE |                            |             |             |               |               |                                    |                                     |                               |                              |                                            |                        |                                |                                             |                  |                                              |            |      |          |                 |         |
|---------------------------------|----------------------------|-------------|-------------|---------------|---------------|------------------------------------|-------------------------------------|-------------------------------|------------------------------|--------------------------------------------|------------------------|--------------------------------|---------------------------------------------|------------------|----------------------------------------------|------------|------|----------|-----------------|---------|
| SYMBOL                          | MANUF.<br>AND<br>MODEL NO. | ARRANGEMENT | REFRIGERANT | EER<br>@ AHRI | COP<br>@ AHRI | AIR SIDE                           |                                     |                               |                              |                                            | FLUID SIDE             |                                |                                             |                  |                                              | ELECTRICAL |      |          | WEIGHT<br>(LBS) | REMARKS |
|                                 |                            |             |             |               |               | TOTAL<br>AIR FLOW<br>RATE<br>(CFM) | TOTAL<br>CALC.<br>LOAD<br>(MBH)(°1) | SENSIBLE<br>LOAD<br>(MBH)(°1) | HEATING<br>LOAD<br>(MBH)(°2) | EXTERNAL<br>STATIC<br>PRESSURE<br>(IN H2O) | FLUID<br>FLOW<br>(GPM) | BRANCH<br>PIPE<br>SIZE<br>(IN) | HOSE KIT<br>& UNIT<br>CONN.<br>SIZE<br>(IN) | WORKING<br>FLUID | MAXIMUM<br>WATER<br>PRESSURE<br>DROP<br>(FT) | MCA        | MOCP | VOLTAGE  |                 |         |
| HHP - 009                       | TRANE EXHF 009             | HORIZONTAL  | R-410A      | 14.9          | 5.4           | 300                                | 8.84                                | 6.46                          | 8.12                         | 0.30                                       | 2                      | 3/4                            | 1/2                                         | 5% METHANOL      | 5.00                                         | 5.23       | 15   | 208/60/1 | 200             | 1,2,3,5 |
| HHP - 012                       | TRANE EXHF 012             | HORIZONTAL  | R-410A      | 15.5          | 5.2           | 400                                | 11.49                               | 8.39                          | 10.68                        | 0.30                                       | 3                      | 3/4                            | 1/2                                         | 5% METHANOL      | 5.00                                         | 8.6        | 15   | 208/60/1 | 210             | 1,2,3,5 |
| HHP - 018                       | TRANE EXHF 018             | HORIZONTAL  | R-410A      | 16.7          | 5.1           | 600                                | 18.45                               | 13.23                         | 16.79                        | 0.30                                       | 4                      | 1                              | 3/4                                         | 5% METHANOL      | 5.00                                         | 13.5       | 20   | 208/60/1 | 300             | 1,2,3,4 |
| HHP - 024                       | TRANE EXHF 024             | HORIZONTAL  | R-410A      | 16            | 4.8           | 800                                | 22.62                               | 15.96                         | 21.49                        | 0.30                                       | 6.0                    | 1                              | 3/4                                         | 5% METHANOL      | 10.00                                        | 19.08      | 30   | 208/60/1 | 310             | 1,2,3,4 |
| HHP - 030                       | TRANE EXHF 030             | HORIZONTAL  | R-410A      | 16.8          | 5.4           | 1,000                              | 29.18                               | 21.72                         | 26.39                        | 0.30                                       | 6.0                    | 1                              | 3/4                                         | 5% METHANOL      | 10.00                                        | 20.83      | 30   | 208/60/1 | 350             | 1,2,3,4 |
| HHP - 036                       | TRANE EXHF 036             | HORIZONTAL  | R-410A      | 17            | 5.4           | 1,200                              | 33.41                               | 24.36                         | 32.60                        | 0.30                                       | 7.0                    | 1 1/4                          | 3/4                                         | 5% METHANOL      | 5.00                                         | 15.25      | 20   | 208/60/3 | 350             | 1,2,3,4 |
| HHP - 042                       | TRANE EXHF 042             | HORIZONTAL  | R-410A      | 16.8          | 5.3           | 1,400                              | 40.02                               | 28.98                         | 38.78                        | 0.30                                       | 8.0                    | 1 1/4                          | 1                                           | 5% METHANOL      | 10.00                                        | 20.9       | 30   | 208/60/3 | 480             | 1,2,3,4 |
| HHP - 048                       | TRANE EXHF 048             | HORIZONTAL  | R-410A      | 16.1          | 5.3           | 1,600                              | 45.21                               | 32.86                         | 43.41                        | 0.30                                       | 10.0                   | 1 1/4                          | 1                                           | 5% METHANOL      | 10.00                                        | 21.48      | 30   | 208/60/3 | 480             | 1,2,3,4 |
| HHP - 060                       | TRANE EXHF 060             | HORIZONTAL  | R-410A      | 15            | 4.9           | 2,000                              | 56.31                               | 38.84                         | 56.58                        | 0.30                                       | 11.5                   | 1 1/4                          | 1                                           | 5% METHANOL      | 10.00                                        | 28         | 40   | 208/60/3 | 480             | 1,2,3,4 |
| HHP - 070                       | TRANE EXHF 070             | HORIZONTAL  | R-410A      | 15.5          | 4.5           | 2,300                              | 63.69                               | 44.97                         | 61.7                         | 0.30                                       | 15.0                   | 1 1/2                          | 1                                           | 5% METHANOL      | 10.00                                        | 32.63      | 50   | 208/60/3 | 530             | 1,2,3,4 |
|                                 |                            |             |             |               |               |                                    |                                     |                               |                              |                                            |                        |                                |                                             |                  |                                              |            |      |          |                 |         |
| VHP - 120                       | TRANE GEVE 1203            | VERTICAL    | R-410A      | 15.8          | 4.5           | 4,000                              | 107.97                              | 103.06                        | 95.3                         | 0.50                                       | 15.0                   | 1 1/2                          | 1 1/2                                       | 5% METHANOL      | 10.00                                        | 46.7       | 60   | 208/60/3 | 980             | 1,2,3   |

1. COOLING: 90 °F EWT; 80 °F db, 67 °F wb EAT.
2. HEATING: 40 °F EWT, 60 °F EAT.
3. EER AND COP AT ARI/ASHRAE/ISO 13256-1 CONDITIONS.
4. STANDARD 3-SPEED DIRECT DRIVE CENTRIFUGAL FAN MOTOR. (ECM MOTOR)
5. STANDARD 3-SPEED DIRECT DRIVE CENTRIFUGAL FAN MOTOR. (PSC MOTOR)

| FAN COIL UNIT SCHEDULE |                            |                    |                         |                                         |                                             |                                            |                                   |                                 |                                               |                  |                           |                                        |     |            |             |          |     |     |               |         |
|------------------------|----------------------------|--------------------|-------------------------|-----------------------------------------|---------------------------------------------|--------------------------------------------|-----------------------------------|---------------------------------|-----------------------------------------------|------------------|---------------------------|----------------------------------------|-----|------------|-------------|----------|-----|-----|---------------|---------|
| SYMBOL                 | MANUF.<br>AND<br>MODEL NO. | AREA SERVED        | AIR                     |                                         |                                             |                                            | FLUID                             |                                 |                                               |                  |                           |                                        |     | ELECTRICAL |             |          |     |     | WEIGHT<br>LBS | REMARKS |
|                        |                            |                    | MINIMUM<br>AIR<br>(CFM) | ENTERING<br>AIR TEMP.<br>DB<br>(DEG. F) | MIN. LEAVING<br>AIR TEMP.<br>DB<br>(DEG. F) | EXTERNAL<br>STATIC<br>PRESSURE<br>(IN H2O) | MINIMUM<br>HEAT<br>LOAD<br>(BTUH) | TOTAL<br>FLUID<br>FLOW<br>(GPM) | ENTERING<br>LEAVING<br>FLUID TEMP<br>(DEG. F) | WORKING<br>FLUID | FACE<br>VELOCITY<br>(FPM) | MAX. FLUID<br>PRESSURE<br>DROP<br>(FT) | HP  | MCA        | MAX<br>FUSE | V/PH/Hz  |     |     |               |         |
| FC-1                   | TRANE BCHC072E             | PUBLIC AREA        | 1980                    | -10                                     | 60                                          | 0.60                                       | 130,000                           | 9.50                            | 180/150                                       | 40% P. GLYCOL    | 407                       | 5.00                                   | 3/4 | 3.63       | 15          | 208/3/60 | 300 | 1,2 |               |         |
| FC-2                   | TRANE BCHC012E             | OFFICES            | 260                     | -10                                     | 60                                          | 0.45                                       | 17,000                            | 1.50                            | 180/150                                       | 40% P. GLYCOL    | 293                       | 5.00                                   | 3/4 | 3.63       | 15          | 208/3/60 | 150 | 1,2 |               |         |
| FC-3                   | TRANE BCHC072E             | PATROLEVIDENCE     | 2020                    | -10                                     | 60                                          | 0.60                                       | 130,000                           | 9.50                            | 180/150                                       | 40% P. GLYCOL    | 416                       | 5.00                                   | 3/4 | 3.63       | 15          | 208/3/60 | 300 | 1,2 |               |         |
| FC-4                   | TRANE BCHC024E             | VESTIBULE          | 400                     | 60                                      | 100                                         | 0.25                                       | 16,248                            | 1.50                            | 180/150                                       | 40% P. GLYCOL    | 240                       | 5.00                                   | 3/4 | 3.63       | 15          | 208/3/60 | 195 | 1,2 |               |         |
| FC-5                   | TRANE BCHC024E             | SECURITY VESTIBULE | 400                     | 60                                      | 100                                         | 0.25                                       | 17,161                            | 1.50                            | 180/150                                       | 40% P. GLYCOL    | 240                       | 5.00                                   | 3/4 | 3.63       | 15          | 208/3/60 | 195 | 1,2 |               |         |
|                        |                            |                    |                         |                                         |                                             |                                            |                                   |                                 |                                               |                  |                           |                                        |     |            |             |          |     |     |               |         |

1. DISCONNECT BY ELECTRICAL
2. 2-ROW COIL

| EXHAUST FAN SCHEDULE |                            |         |                                    |                                             |                             |                       |                                  |      |     |       |      |                         |        |                 |         |
|----------------------|----------------------------|---------|------------------------------------|---------------------------------------------|-----------------------------|-----------------------|----------------------------------|------|-----|-------|------|-------------------------|--------|-----------------|---------|
| SYMBOL               | MANUF.<br>AND<br>MODEL NO. | TYPE    | FAN                                |                                             |                             |                       | MOTOR                            |      |     |       |      |                         |        | WEIGHT<br>(LBS) | REMARKS |
|                      |                            |         | TOTAL<br>AIR FLOW<br>RATE<br>(CFM) | TOT. STATIC<br>PRESSURE<br>DROP<br>(IN H2O) | OUTLET<br>VELOCITY<br>(FPM) | FAN<br>SPEED<br>(RPM) | FAN<br>WHEEL<br>DIAMETER<br>(IN) | BHP  | HP  | WATTS | AMPS | MOTOR<br>SPEED<br>(RPM) | VOLTPH |                 |         |
| EF-1                 | GREENHECK BCF-206-4        | IN-LINE | 735                                | 0.50                                        | 681                         | 1033                  | 5.75                             | 0.09 | 1/4 | -     | -    | 1725                    | 120/1  | 175             | 1,2,3   |
| EF-2                 | GREENHECK GB-180-4         | ROOF    | 1,870                              | 0.40                                        | 952                         | 731                   | 16.50                            | 0.25 | 1/4 | -     | -    | 1725                    | 120/1  | 140             | 1,2,3   |
| EF-3                 | GREENHECK SP-A410          | CEILING | 350                                | 0.25                                        | 944                         | 1000                  | 7.13                             | -    | -   | 121   | -    | 1350                    | 120/1  | 40              | 4       |
| EF-4                 | GREENHECK BCF-106-4        | IN-LINE | 365                                | 0.40                                        | 730                         | 1491                  | 5.75                             | 0.06 | 1/4 | -     | -    | 1725                    | 120/1  | 100             | 1,2,3   |
| EF-5                 | GREENHECK BCF-106-4        | IN-LINE | 250                                | 0.40                                        | 500                         | 1363                  | 5.75                             | 0.05 | 1/4 | -     | -    | 1725                    | 120/1  | 100             | 1,2,3   |
| EF-6                 | GREENHECK SP-A410          | CEILING | 280                                | 0.35                                        | 791                         | 1000                  | 7.13                             | -    | -   | 121   | -    | 1000                    | 120/1  | 35              | 5       |
| EF-7                 | GREENHECK SP-A390          | CEILING | 365                                | 0.25                                        | 2582                        | 1350                  | 6.75                             | -    | -   | 150   | -    | 1350                    | 120/1  | 24              | 4       |
| EF-8                 | GREENHECK CUBE-141-4       | ROOF    | 1,420                              | 0.30                                        | 826                         | 988                   | 16.63                            | 0.19 | 1/4 | -     | -    | 1725                    | 120/1  | 94              | 2,6     |
| EF-9                 | GREENHECK SP-B150          | CEILING | 150                                | 0.25                                        | 806                         | 1050                  | 8.00                             | -    | -   | 150   | -    | 1050                    | 120/1  | 10              | 4       |

1. DISCONNECT BY ELECTRICAL.
2. PROVIDE WITH BACKDRAFT DAMPER.
3. CONNECT TO OCCUPANCY SCHEDULE. BY ATC CONTRACTOR.
4. CONTROL FAN WITH WALL SWITCH. SWITCH AND WIRING BY ELECTRICAL.
5. CONTROL FAN WITH A LINE VOLTAGE THERMOSTAT. WIRING AND T-STAT BY ATC CONTRACTOR.
6. CONTROL FAN WITH COINO, CONTROL PANEL.

| DUCTLESS SPLIT SYSTEM - OUTDOOR HEAT PUMP SCHEDULE |                            |                |             |      |      |                            |                                     |                        |                       |            |     |      |         |
|----------------------------------------------------|----------------------------|----------------|-------------|------|------|----------------------------|-------------------------------------|------------------------|-----------------------|------------|-----|------|---------|
| NAME                                               | MANUF.<br>AND<br>MODEL NO. | INDOOR<br>UNIT | REFRIGERANT | SEER | HSPF | TOTAL<br>COOLING<br>(BTUH) | HEATING<br>AT<br>17 DEG F<br>(BTUH) | LIQUID<br>LINE<br>(IN) | VAPOR<br>LINE<br>(IN) | ELECTRICAL |     |      | REMARKS |
|                                                    |                            |                |             |      |      |                            |                                     |                        |                       | VOLTPH     | MCA | MOCP |         |
| DHP-048                                            | DAIKIN MXZ-8B48NA          | DFC-1, DFC-2   | R-410A      | 15   | 8.7  | 48,000                     | 33,000                              | 3/8                    | 5/8                   | 208/230-1  | 32  | 40   | 1,2     |

1. DISCONNECT BY ELECTRICAL.
2. OUTDOOR UNIT POWERS INDOOR UNIT. LINE VOLTAGE WIRING BETWEEN OUTDOOR UNIT AND INDOOR UNIT BY ELECTRICAL.

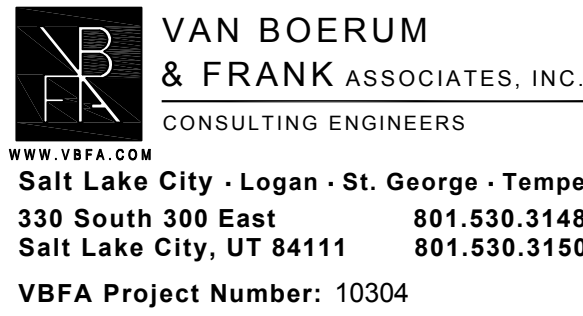
| DUCTLESS SPLIT SYSTEM - HEAT/COOL - INDOOR FAN COIL UNIT SCHEDULE |                            |                 |                                    |                    |                                     |                                           |            |     |                 |                 |         |
|-------------------------------------------------------------------|----------------------------|-----------------|------------------------------------|--------------------|-------------------------------------|-------------------------------------------|------------|-----|-----------------|-----------------|---------|
| NAME                                                              | MANUF.<br>AND<br>MODEL NO. | OUTDOOR<br>UNIT | TOTAL<br>AIR FLOW<br>RATE<br>(CFM) | CAPACITY<br>(BTUH) | OUTDOOR<br>AIRFLOW<br>RATE<br>(CFM) | ENTERING<br>AIR TEMP.<br>DBWB<br>(DEG. F) | ELECTRICAL |     |                 | WEIGHT<br>(LBS) | REMARKS |
|                                                                   |                            |                 |                                    |                    |                                     |                                           | VOLTPH     | MCA | BREAKER<br>SIZE |                 |         |
| DFC1-024                                                          | DAIKIN MSZ-GE24NA          | DHP-048         | 600                                | 22,000             | -                                   | 80/67                                     | 208/230-1  | 1   | -               | 40              | 1,2     |
| DFC2-024                                                          | DAIKIN MSZ-GE24NA          | DHP-048         | 600                                | 22,000             | -                                   | 80/67                                     | 208/230-1  | 1   | -               | 40              | 1,2     |

1. POWER FOR INDOOR UNIT COMES FROM OUTDOOR UNIT. LINE VOLTAGE WIRING BETWEEN OUTDOOR UNIT AND INDOOR UNIT BY ELECTRICAL.

| BRANCH BOX SCHEDULE |                            |                    |                        |                       |                        |                       |            |      |       |                 |        |        |         |
|---------------------|----------------------------|--------------------|------------------------|-----------------------|------------------------|-----------------------|------------|------|-------|-----------------|--------|--------|---------|
| NAME                | MANUF.<br>AND<br>MODEL NO. | NO. OF<br>BRANCHES | REFRIGERANT LINE SIZES |                       |                        |                       | ELECTRICAL |      |       | DIMENSIONS      |        | WEIGHT | REMARKS |
|                     |                            |                    | TO OUTDOOR UNIT        |                       | TO INDOOR UNITS        |                       | VOLT/PH    | AMPS | WATTS | HxWxD<br>(IN)   | (LBS.) |        |         |
|                     |                            |                    | LIQUID<br>LINE<br>(IN) | VAPOR<br>LINE<br>(IN) | LIQUID<br>LINE<br>(IN) | VAPOR<br>LINE<br>(IN) |            |      |       |                 |        |        |         |
|                     |                            |                    |                        |                       |                        |                       |            |      |       |                 |        |        |         |
| BB -1               | mitsubishi PAC-AKA31BC     | 3                  | 3/8                    | 5/8                   | 1/4                    | 3/8                   | 208/1      | 0.05 | 0.003 | 7-3/4X17-3/4X11 | 30     | 1      |         |

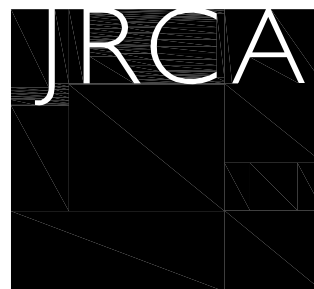
1. INTERLOCK WITH OUTDOOR HEAT PUMP UNIT.

| REGISTERS, DIFFUSERS AND GRILLES                                          |                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESCRIPTION                                                               | SPECIFICATION                                                                                                                                                                                                                                        |
| CEILING MTD SUPPLY                                                        | CEILING SUPPLY DIFFUSERS SHALL BE LOUVERED FACED PRICE SMD. WITH BORDER TYPE 36 FOR LAY-IN CEILINGS OR BORDER TYPE 6 FOR SURFACE MOUNTING IN OTHER THAN LAY IN CEILINGS, BAKED ENAMEL FINISH FOR BLOW AND PATTERN SHOWN ON DRAWINGS.                 |
| CEILING MTD SUPPLY, RETURN OR EXHAUST REGISTERS IN SECURITY CEILING AREAS | SHALL BE PRICE MSPG MAXIMUM SECURITY PERFORATED FACE GRILLE. 1/4" THICK FACE PLATE, SLEEVE LENGTH TO MATCH SUPPORTING STRUCTURE. PROVIDE WITH OPPOSED BLADE DAMPER AND BAKED ENAMEL FINISH.                                                          |
| CEILING MTD FILTER RETURN                                                 | CEILING MOUNTED FILTERED RETURN GRILLES SHALL BE PRICE 10FF. WITH HINGED, PERFORATED FACEPLATE AND 1" FILTER. BAKED ENAMEL FINISH. THE CONTRACTOR IS TO PROVIDE THE 1" FILTER. BORDER TYPE 3 FOR LAY IN CEILINGS OR BORDER TYPE 1 FOR SURFACE MOUNT. |
| CEILING MTD RETURN                                                        | CEILING MOUNTED RETURN GRILLES SHALL BE PRICE PDOR WITH REMOVABLE PERFORATED FACEPLATE AND BAKED ENAMEL FINISH. BORDER TYPE 3 FOR LAY IN CEILINGS OR BORDER TYPE 1 FOR SURFACE MOUNT.                                                                |
| CEILING MTD EXHAUST                                                       | EXHAUST-AIR REGISTERS SHALL BE PRICE PDOR WITH REMOVABLE PERFORATED FACEPLATE AND BAKED ENAMEL FINISH. BORDER TYPE 3 FOR LAY IN CEILINGS OR BORDER TYPE 1 FOR SURFACE MOUNT.                                                                         |
| CEILING MTD TRANSFER                                                      | TRANSFER GRILLES SHALL BE PRICE PDOR WITH REMOVABLE PERFORATED FACEPLATE AND BORDER TYPE 3 FOR LAY-IN T-BAR APPLICATION OR BORDER TYPE 1 FOR SURFACE MOUNT, BAKED ENAMEL FINISH.                                                                     |
| WALL MTD SUPPLY                                                           | WALL MOUNTED SUPPLY REGISTERS SHALL BE PRICE 60D WITH OPPOSED BLADE DAMPER, 45-DEGREE DEFLECTION, 3/4" BLADE SPACING, BAKED ENAMEL FINISH.                                                                                                           |
| WALL MTD EXHAUST                                                          | WALL MOUNTED EXHAUST GRILLES SHALL BE SIGHT-PROOF, HEAVY-DUTY GYMNASIUM TYPE EQUAL TO PRICE 91 WITH HORIZONTAL 45-DEGREE DEFLECTION BLADES, 3/8" BLADE SPACING, BAKED ENAMEL FINISH.                                                                 |
| LINEAR SLOT DIFFUSER                                                      | PRICE SDS SERIES LINEAR SLOT DIFFUSER WITH INSULATED PLENUM. TYPE 1 SCREW MOUNTED FLANGE FRAME FOR SURFACE MOUNTING. 1" SLOT SPACING, WHITE POWDER COAT FINISH. 180 DEGREE AIR PATTERN ADJUSTMENT.                                                   |



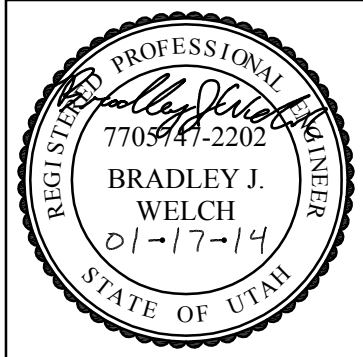
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|               |           |
|---------------|-----------|
| DATE/REVISION | PROJECT # |
| 04-04-2013    | 10002     |



MECHANICAL SCHEDULES

ME601



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| HOT WATER UNIT HEATER SCHEDULE |                        |                           |                          |                        |                               |               |                                 |      |          |     |       |     |          |      |            |         |
|--------------------------------|------------------------|---------------------------|--------------------------|------------------------|-------------------------------|---------------|---------------------------------|------|----------|-----|-------|-----|----------|------|------------|---------|
| SYMBOL                         | MANUFACTURER AND MODEL | AIR SIDE                  |                          | FLUID SIDE             |                               |               | ELECTRICAL                      |      |          |     |       |     |          |      | WEIGHT LBS | REMARKS |
|                                |                        | TOTAL AIR FLOW RATE (CFM) | MINIMUM TOTAL LOAD (MBH) | TOTAL FLUID FLOW (GPM) | ENTER/ LEAVING TEMP. (DEG. F) | WORKING FLUID | MAXIMUM FLUID PRESURE DROP (FT) | HP   | V/PH/Hz  | AMP | WATTS | MCA | MAX FUSE | RPM  |            |         |
| UH-1                           | TRANE S-108            | 1,800                     | 84.24                    | 5.3                    | 180/150                       | 40% P. GLYCOL | 0.20                            | 1/12 | 115/1/60 | 2.2 | -     | 2.8 | 5.0      | 1000 | 80         | 1.2     |
| UH-2                           | TRANE S-A18            | 500                       | 6.62                     | 1.2                    | 180/150                       | 40% P. GLYCOL | 0.88                            | -    | 115/1/60 | 0.8 | 16.0  | 1.0 | 1.8      | 1550 | 30         | 1.2     |

1. TOTALLY ENCLOSED MOTOR.  
2. DISCONNECT BY ELECTRICAL.

| RADIANT CEILING PANEL SCHEDULE |                               |                         |                              |                 |            |             |             |  |       |
|--------------------------------|-------------------------------|-------------------------|------------------------------|-----------------|------------|-------------|-------------|--|-------|
| ID                             | MANUFACTURER AND MODEL NUMBER | MINIMUM LOAD (BTU/H/FT) | FLUID                        | NUMBER OF TUBES | WIDTH (IN) | LENGTH (IN) | HEIGHT (IN) |  | NOTES |
|                                |                               |                         | ENTERING/ LEAVING TEMP. (°F) |                 |            |             |             |  |       |
| CR-1                           | RITTILING 36                  | 550                     | 180/180                      | 6               | 36         | 48          | 1.5         |  | 1.2   |
| CR-2                           | RITTILING 24                  | 400                     | 180/180                      | 4               | 24         | 36          | 1.5         |  | 1.2   |

1. SEE FLOOR PLANS FOR FLOW RATES.  
2. COORDINATE MOUNTING WITH CEILING TYPE.

| BOILER SCHEDULE |                                     |              |                        |                         |                          |            |                       |                                       |                  |                      |     |                      |                                     |                                    |       |
|-----------------|-------------------------------------|--------------|------------------------|-------------------------|--------------------------|------------|-----------------------|---------------------------------------|------------------|----------------------|-----|----------------------|-------------------------------------|------------------------------------|-------|
| ID              | MANUFACTURER<br>AND<br>MODEL NUMBER | FUEL<br>TYPE | INPUT<br>LOAD<br>(MBH) | OUTPUT<br>LOAD<br>(MBH) | ELECTRONIC<br>MODULATION | EFFICIENCY | FLUID                 |                                       |                  | ELECTRICAL           |     |                      | PHYSICAL                            |                                    | NOTES |
|                 |                                     |              |                        |                         |                          |            | FLOW<br>RATE<br>(GPM) | ENTERING/<br>LEAVING<br>TEMP.<br>(°F) | WORKING<br>FLUID | HEAD<br>LOSS<br>(FT) | FLA | BOILER<br>VOLT/PH/Hz | FLUE/<br>INTAKE<br>DIAMETER<br>(IN) | DEPTH/<br>WIDTH/<br>HEIGHT<br>(IN) |       |
| B-1             | RAYPAK MVB-1003A                    | NAT GAS      | 999                    | 869                     | 7:1                      | 87%        | 58                    | 150/180                               | 40% P. GLYCOL    | 6                    | 14  | 208/1/60             | 10/6                                | 26/30/49                           | 1     |

1. INPUT/OUTPUT ARE AT SEA LEVEL CONDITIONS

| GAS FIRED UNIT HEATER SCHEDULE |                        |     |                        |                  |                   |                       |            |       |      |                                    |        |         |
|--------------------------------|------------------------|-----|------------------------|------------------|-------------------|-----------------------|------------|-------|------|------------------------------------|--------|---------|
| SYMBOL                         | MANUFACTURER AND MODEL | CFM | THERMAL EFFICIENCY (%) | GAS INPUT (BTUH) | GAS OUTPUT (BTUH) | OUTLET VELOCITY (FPM) | ELECTRICAL |       |      | VENT OUTLET/INLET DAIMETER IN. DIA | WEIGHT | REMARKS |
|                                |                        |     |                        |                  |                   |                       | VOLTS      | PHASE | HP   |                                    |        |         |
| UH-3                           | MODINE PTS 45          | 720 | 80                     | 45,000           | 36,000            | 725                   | 115        | 1     | 1/15 | 3/3                                | 75     | 1.2     |
| UH-4                           | MODINE PTS 60          | 990 | 80                     | 60,000           | 48,000            | 853                   | 115        | 1     | 1/12 | 4/4                                | 100    | 1.2     |
| UH-5                           | MODINE PTS 45          | 720 | 80                     | 45,000           | 36,000            | 725                   | 115        | 1     | 1/15 | 3/3                                | 75     | 1.2     |

1. DISCONNECT BY ELECTRICAL.  
2. SPARK IGNITED, INTERMITTENT SAFETY PILOT.

| PACKAGED TERMINAL AIR CONDITIONER - HEAT PUMP |                      |                   |                      |                              |      |     |     |                       |          |      |     |           |
|-----------------------------------------------|----------------------|-------------------|----------------------|------------------------------|------|-----|-----|-----------------------|----------|------|-----|-----------|
| NAME                                          | MANUF. AND MODEL NO. | OUTSIDE AIR (CFM) | TOTAL COOLING (BTUH) | REVERSE CYCLE HEATING (BTUH) | EER  | COP | CFM | ELECTRICAL            |          |      |     | REMARKS   |
|                                               |                      |                   |                      |                              |      |     |     | AUXILIARY HEATER (KW) | V-PH-Hz  | MCA  | MOP |           |
| PTAC-007                                      | GE A261H07DAB        | 30                | 7,200                | 7,000                        | 13.2 | 4.0 | 340 | 2.4                   | 208-1-60 | 11.6 | 15  | 1.2,3,4,5 |

1. PROVIDE WITH METAL INSULATED WALL SLEEVE.  
2. PROVIDE WITH ARCHITECTURAL ALUMINUM GRILLE WITH COLOR SELECTION BY OWNER AND ARCHITECT.  
3. PROVIDE WITH SUB-BASE AND HARDWIRE KIT FOR PERMANENT CONNECTION TO THE UNIT.  
4. PROVIDE WITH DRAIN KIT.  
5. PROVIDE WITH WIRED DIGITAL WALL THERMOSTAT.

| DUCTLESS SPLIT SYSTEM - COOLING ONLY - INDOOR FAN COIL UNIT SCHEDULE |                      |              |                           |                 |                            |                                  |            |     |              |         |
|----------------------------------------------------------------------|----------------------|--------------|---------------------------|-----------------|----------------------------|----------------------------------|------------|-----|--------------|---------|
| NAME                                                                 | MANUF. AND MODEL NO. | OUTDOOR UNIT | TOTAL AIR FLOW RATE (CFM) | CAPACITY (BTUH) | OUTDOOR AIRFLOW RATE (CFM) | ENTERING AIR TEMP. DBWB (DEG. F) | ELECTRICAL |     |              | REMARKS |
|                                                                      |                      |              |                           |                 |                            |                                  | VOLT/PH    | MCA | BREAKER SIZE |         |
| DFC3-024                                                             | MTSUBISHI MSY-GA24NA | DHP3-024     | 800                       | 22,000          | -                          | 80/67                            | 208/230-1  | 1   | -            | 1.2     |
| DFC4-024                                                             | MTSUBISHI MSY-GA24NA | DHP4-024     | 800                       | 22,000          | -                          | 80/67                            | 208/230-1  | 1   | -            | 1.2     |

1. POWER FOR INDOOR UNIT COMES FROM OUTDOOR UNIT. LINE VOLTAGE WIRING BETWEEN OUTDOOR UNIT AND INDOOR UNIT BY ELECTRICAL.  
2. PROVIDE INDOOR UNIT WITH CONDENSATE PUMP, SAFETY SHUT-OFF AND ALARM.

| HEAT EXCHANGER SCHEDULE |                               |                 |               |                     |            |                             |                 |               |                      |   |       |
|-------------------------|-------------------------------|-----------------|---------------|---------------------|------------|-----------------------------|-----------------|---------------|----------------------|---|-------|
| ID                      | MANUFACTURER AND MODEL NUMBER | LOAD SIDE       |               |                     |            | SOURCE SIDE                 |                 |               |                      |   | NOTES |
|                         |                               | FLOW RATE (GPM) | WORKING FLUID | ENTERING TEMP. (°F) | LOAD (MBH) | MAXIMUM PRESSURE DROP (PSI) | FLOW RATE (GPM) | WORKING FLUID | ENTERING/ TEMP. (°F) |   |       |
| HX-1                    | SONDEX S4A-IG16-30-TL         | 35              | 5% METHANOL   | 45                  | 168        | 10                          | 11              | 40% P. GLYCOL | 180                  | 2 | -     |

| EXPANSION TANK SCHEDULE |                               |                 |               |                  |                 |                    |               |                     |                  |       |
|-------------------------|-------------------------------|-----------------|---------------|------------------|-----------------|--------------------|---------------|---------------------|------------------|-------|
| ID                      | MANUFACTURER AND MODEL NUMBER | LOCATION        | SYSTEM SERVED | TYPE             | TANK SIZE (GAL) | TANK ACCEPT. (GAL) | WORKING FLUID | RELIEF VALVE (PSIG) | DIA/ HEIGHT (IN) | NOTES |
| ET-1                    | B & G B-300                   | MECHANICAL ROOM | GLHE          | VERTICAL BLADDER | 80              | 80                 | 5% METHANOL   | 40                  | 24 / 51          | -     |
| ET-2                    | B & G B-300                   | MECHANICAL ROOM | HOT WATER     | VERTICAL BLADDER | 80              | 80                 | 40% GLYCOL    | 40                  | 24 / 51          | -     |

| PUMP SCHEDULE |                                     |                 |                       |                      |                  |                   |              |                      |                       |                         |            |   |       |
|---------------|-------------------------------------|-----------------|-----------------------|----------------------|------------------|-------------------|--------------|----------------------|-----------------------|-------------------------|------------|---|-------|
| ID            | MANUFACTURER<br>AND<br>MODEL NUMBER | SERVICE         | FLUID                 |                      |                  | PUMP              |              | ELECTRICAL           |                       |                         |            |   | NOTES |
|               |                                     |                 | FLOW<br>RATE<br>(GPM) | HEAD<br>LOSS<br>(FT) | WORKING<br>FLUID | EFFICIENCY<br>(%) | PUMP<br>TYPE | MOTOR<br>BHP<br>(HP) | MOTOR<br>SIZE<br>(HP) | MOTOR<br>SPEED<br>(RPM) | VOLT/PH/Hz |   |       |
| GLP-1         | B&G SERIES 1510 2BC                 | GLHE            | 170                   | 92                   | 5% METHANOL      | 71                | BASE MOUNTED | 5.52                 | 7.5                   | 1750                    | 208/3      | 1 |       |
| GLP-2         | B&G SERIES 1510 2BC                 | GLHE            | 170                   | 92                   | 5% METHANOL      | 71                | BASE MOUNTED | 5.52                 | 7.5                   | 1750                    | 208/3      | 1 |       |
| HXP-1         | B&G SERIES 60 1-1/4X5-1/4           | HEAT EXCHANGER  | 35                    | 17                   | 5% METHANOL      | 57                | INLINE       | 0.27                 | 1/2                   | 1750                    | 120/1      | - |       |
| HWP-1         | B&G SERIES 80 1-1/2X1-1/2X3-1/2     | HOT WATER LOOP  | 44                    | 65                   | 40% P. GLYCOL    | 48                | INLINE       | 1.5                  | 3.0                   | 1750                    | 208/3      | - |       |
| SMP-1         | GRUNDFOS CR-1-2 A-FGJ-A-E-HQOE      | SNOWMELT ZONE 1 | 8.2                   | 37.4                 | 40% P. GLYCOL    | 29                | INLINE       | 0.28                 | 1/3                   | 3450                    | 115/1      | 2 |       |
| SMP-2         | GRUNDFOS CR-1-2 A-FGJ-A-E-HQOE      | SNOWMELT ZONE 2 | 7.5                   | 40.3                 | 40% P. GLYCOL    | 30                | INLINE       | 0.27                 | 1/3                   | 3450                    | 115/1      | 2 |       |
| SMP-3         | GRUNDFOS CR-1-2 A-FGJ-A-E-HQOE      | SNOWMELT ZONE 3 | 9.2                   | 31.9                 | 40% P. GLYCOL    | 27                | INLINE       | 0.28                 | 1/3                   | 3450                    | 115/1      | 2 |       |

1. CONTROLLED BY VFD  
2. PROVIDE TEKMAR SNOW DETECTOR AND MELTING CONTROL PANEL 664.

| HOOD SCHEDULE |                      |         |                     |                                 |             |                  |              |         |
|---------------|----------------------|---------|---------------------|---------------------------------|-------------|------------------|--------------|---------|
| SYMBOL        | MANUF. AND MODEL NO. | SERVICE | AIR                 | SIZE                            |             |                  |              | REMARKS |
|               |                      |         | AIR FLOW RATE (CFM) | MAXIMUM AIR FLOW VELOCITY (FPM) | HEIGHT (IN) | THROAT SIZE (IN) | WEIGHT (LBS) |         |
| RH-1          | COOK 16X30GI         | INTAKE  | 2,300               | 400                             | 14          | 16X30            | 150          | 1       |
| RH-2          | COOK 16X24GR         | RELIEF  | 2,300               | 500                             | 12          | 16X24            | 125          | 1       |

1. HOOD TO BE PROVIDED WITH ROOF CURB.

| AIR SEPARATOR SCHEDULE |                                |                |             |                 |               |  |                |                  |       |
|------------------------|--------------------------------|----------------|-------------|-----------------|---------------|--|----------------|------------------|-------|
| ID                     | MANUFACTURER AND MODEL NUMBER  | SYSTEM SERVED  | TYPE        | FLUID           |               |  | HEAD LOSS (FT) | DIA/ HEIGHT (IN) | NOTES |
|                        |                                |                |             | FLOW RATE (GPM) | WORKING FLUID |  |                |                  |       |
| AS-1                   | BELL & GOSSETT ROLAIRTRLO RL-4 | GLHE           | CENTRIFUGAL | 170             | 5% METHANOL   |  | 1              | 13/32            | -     |
| AS-2                   | BELL & GOSSETT ROLAIRTRLO RL-3 | HOT WATER LOOP | CENTRIFUGAL | 44              | 40% P. GLYCOL |  | 0.4            | 11/27            | -     |

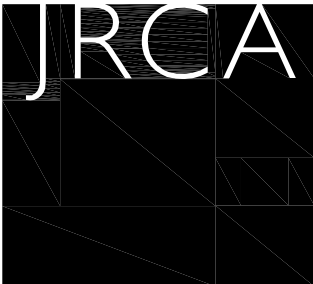
| DUCTLESS SPLIT SYSTEM - OUTDOOR CONDENSING UNIT SCHEDULE |                            |                |             |      |                           |                        |                       |                           |     |      |                 |         |
|----------------------------------------------------------|----------------------------|----------------|-------------|------|---------------------------|------------------------|-----------------------|---------------------------|-----|------|-----------------|---------|
|                                                          | MANUF.<br>AND<br>MODEL NO. | INDOOR<br>UNIT | REFRIGERANT | SEER | TOTAL<br>COOLING<br>(MBH) | LIQUID<br>LINE<br>(IN) | VAPOR<br>LINE<br>(IN) | ELECTRICAL<br><br>VOLT/PH | MCA | MOCP | WEIGHT<br>(LBS) | REMARKS |
| DHP3-024                                                 | MTSUBISHI MUY-GA24NA       | DFC-3          | R-410A      | 17.5 | 22,000                    | 3/8                    | 5/8                   | 208/230-1                 | 17  | 20   | 125             | 1.2     |
| DHP4-024                                                 | MTSUBISHI MUY-GA24NA       | DFC-4          | R-410A      | 17.5 | 22,000                    | 3/8                    | 5/8                   | 208/230-1                 | 17  | 20   | 125             | 1.2     |
|                                                          |                            |                |             |      |                           |                        |                       |                           |     |      |                 |         |

1. DISCONNECT BY ELECTRICAL.  
2. OUTDOOR UNIT POWERS INDOOR UNIT. LINE VOLTAGE WIRING BETWEEN OUTDOOR UNIT AND INDOOR UNIT BY ELECTRICAL.

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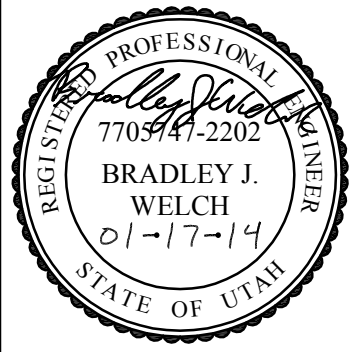
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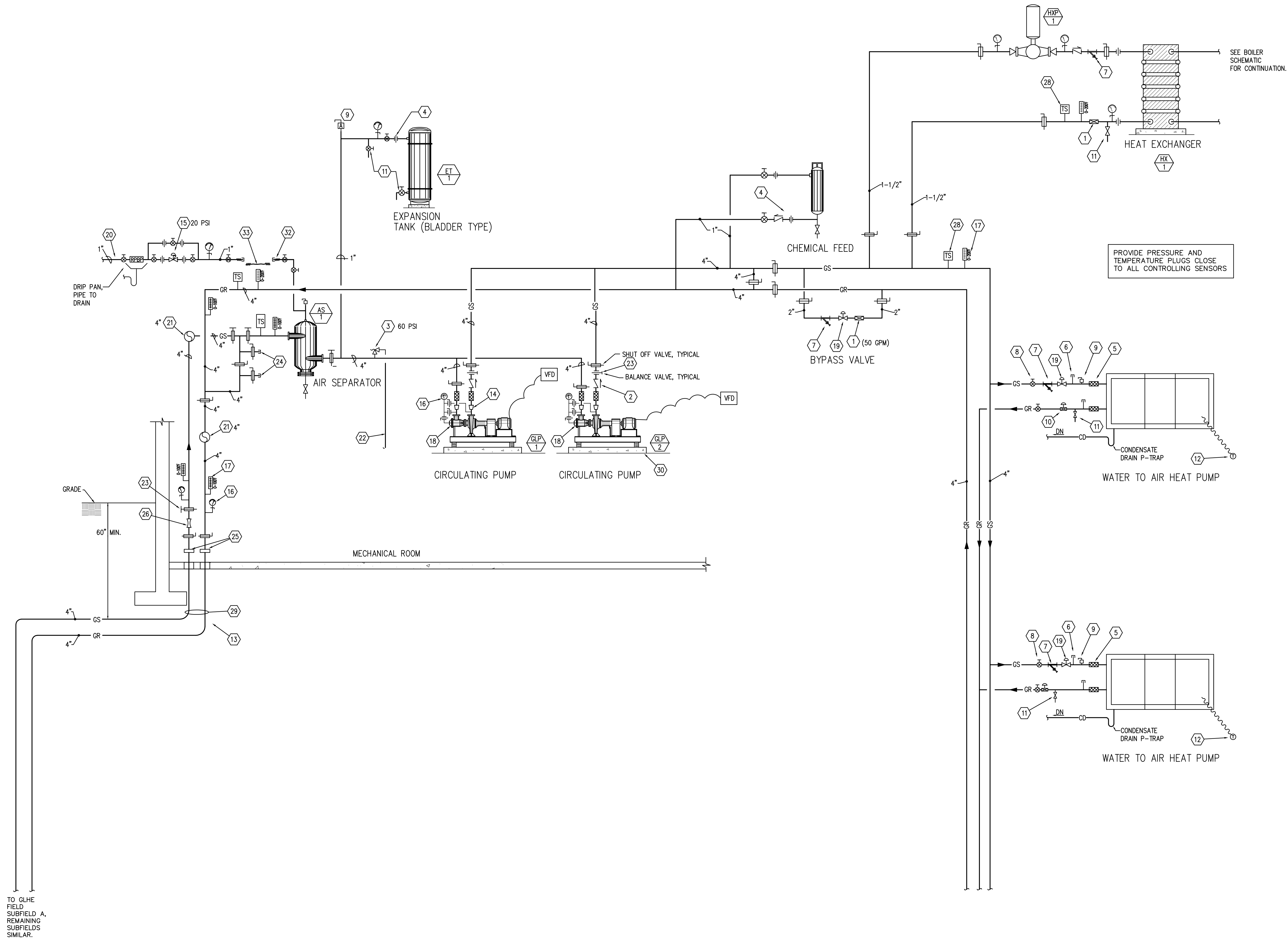
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| 04-04-2013    | 10002     |



MECHANICAL  
SCHEDULES

ME602





TO GLHE  
FIELD  
SUBFIELD A,  
REMAINING  
SUBFIELDS  
SIMILAR.

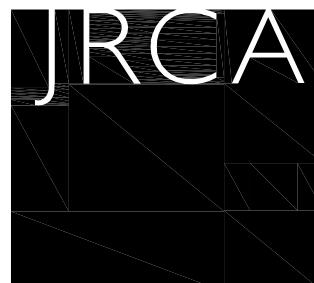
## # KEYED NOTES

1. CIRCUIT SETTER.
2. CHECK VALVE, TYPICAL.
3. P&T RELIEF VALVE, TYPICAL.
4. UNION, TYPICAL.
5. FLEXIBLE PIPE WITH THREADED CONNECTION, TYPICAL.
6. P & T PORT, TYPICAL.
7. STRAINER, TYPICAL.
8. SHUT OFF VALVE, TYPICAL.
9. AIR VENT, TYPICAL.
10. FLOW CONTROL VALVE, TYPICAL.
11. DRAIN, TYPICAL.
12. THERMOSTAT, TYPICAL.
13. SEE GEO LOOP PIPING PLAN FOR LOCATION OF PIPING EXITING THE PUMP ROOM.
14. REDUCER, TYPICAL.
15. PRESSURE REDUING, SELF FILLING VALVE, TYPICAL.
16. PRESSURE GAUGE, TYPICAL.
17. THERMOMETER, TYPICAL.
18. SUCTION DIFFUSER, TYPICAL.
19. 2-WAY AUTOMATIC TEMPERATURE CONTROL VALVE, TYPICAL.
20. MAKE UP WATER LINE. FOR CONTINUATION SEE PLUMBING PLANS.
21. HEADER PIPE. CONNECT EACH SUBFIELD TO HEADER PIPE.
22. PIPE TO FLOOR DRAIN.
23. BUTTERFLY BALANCING VALVE, TYPICAL.
24. 3" PURGE CONNECTIONS.
25. BLACK STEEL TO POLYETHYLENE TRANSITION FITTING.
26. VENTURI.
27. AQUASTAT.
28. TEMPERATURE SENSOR, TYPICAL.
29. TYPICAL FOR EACH SUBFIELD PIPING, VALVES, ACCESSORIES AND HEADER CONNECTIONS. REMAINING SUBFIELDS SHALL BE PIPED AND CONNECTED TO HEADER IN A SIMILAR MANNER.
30. 4" HOUSEKEEPING PAD, TYPICAL.
31. PIPING TO PENETRATE WALL, SEE DETAIL.
32. THREADED HOSE CONNECTION (CAPPED).
33. PROVIDE HOSE FOR CONNECTION FILL LINE.

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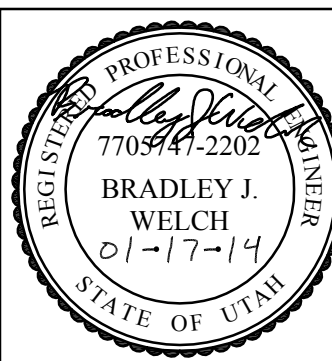
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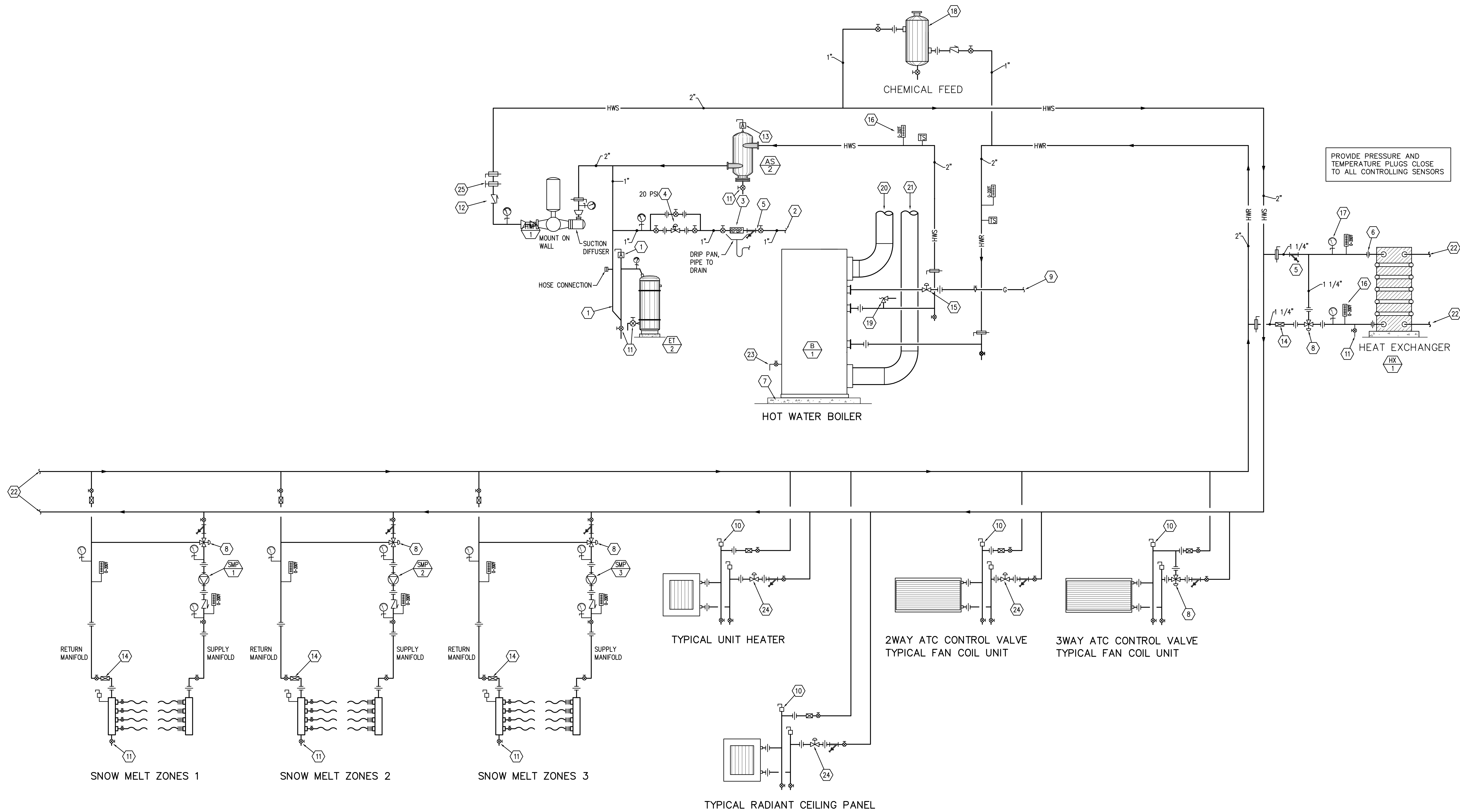
MECHANICAL  
SCHEMATIC

ME701



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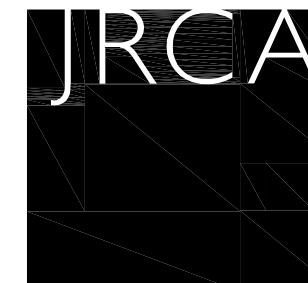
## # KEYED NOTES

1. THERMAL TRAP.
2. TO WATER SUPPLY. SEE PLUMBING PLANS.
3. REDUCED PRESSURE BACKFLOW PREVENTOR. PROVIDE FUNNEL AND DRAIN LINE FROM BACKFLOW PREVENTORS TO NEAREST FLOOR DRAIN.
4. PRV AND SLOW CLOSING SELF FILL VALVE.
5. Y-STRAINER. PROVIDE DRAIN VALVE WITH THREADED HOSE CONNECTION AND CAP, TYPICAL.
6. UNION OR FLANGE, TYPICAL.
7. 4" HOUSEKEEPING PAD, TYPICAL.
8. 3-WAY ATC CONTROL VALVE, TYPICAL.
9. SEE PLUMBING PLANS FOR CONTINUATION.
10. MANUAL AIR VENT, TYPICAL. PROVIDE ADDITIONAL MANUAL AIR VENTS AT ALL HIGH POINTS IN SYSTEM.
11. DRAIN VALVE, TYPICAL. PROVIDE WITH HOSE CONNECTION AND CAP.
12. NON-SLAM CHECK VALVE, TYPICAL.
13. HIGH CAPACITY AUTOMATIC AIR VENT.
14. CIRCUIT SETTER, TYPICAL.
15. BOILER GAS TRAIN.
16. THERMOMETER, TYPICAL.
17. PRESSURE GAUGE WITH SHUT-OFF COCK, TYPICAL.
18. 5 GAL. CHEMICAL FEED TANK WITH REMOVABLE SCREW-TOP LID.
19. PIPE DISCHARGE FROM SAFETY RELIEF VALVE TO FLOOR DRAIN.
20. COMBUSTION AIR DUCT.
21. FLUE.
22. FOR CONTINUATION SEE MECHANICAL PIPING PLANS.
23. BLOW DOWN DRAIN FOR BOILER. PIPE TO FLOOR DRAIN/SINK.
24. 2-WAY CONTROL VALVE, TYPICAL.
25. BALANCING BUTTERFLY VALVE, TYPICAL.
26. HOSE CONNECTION.

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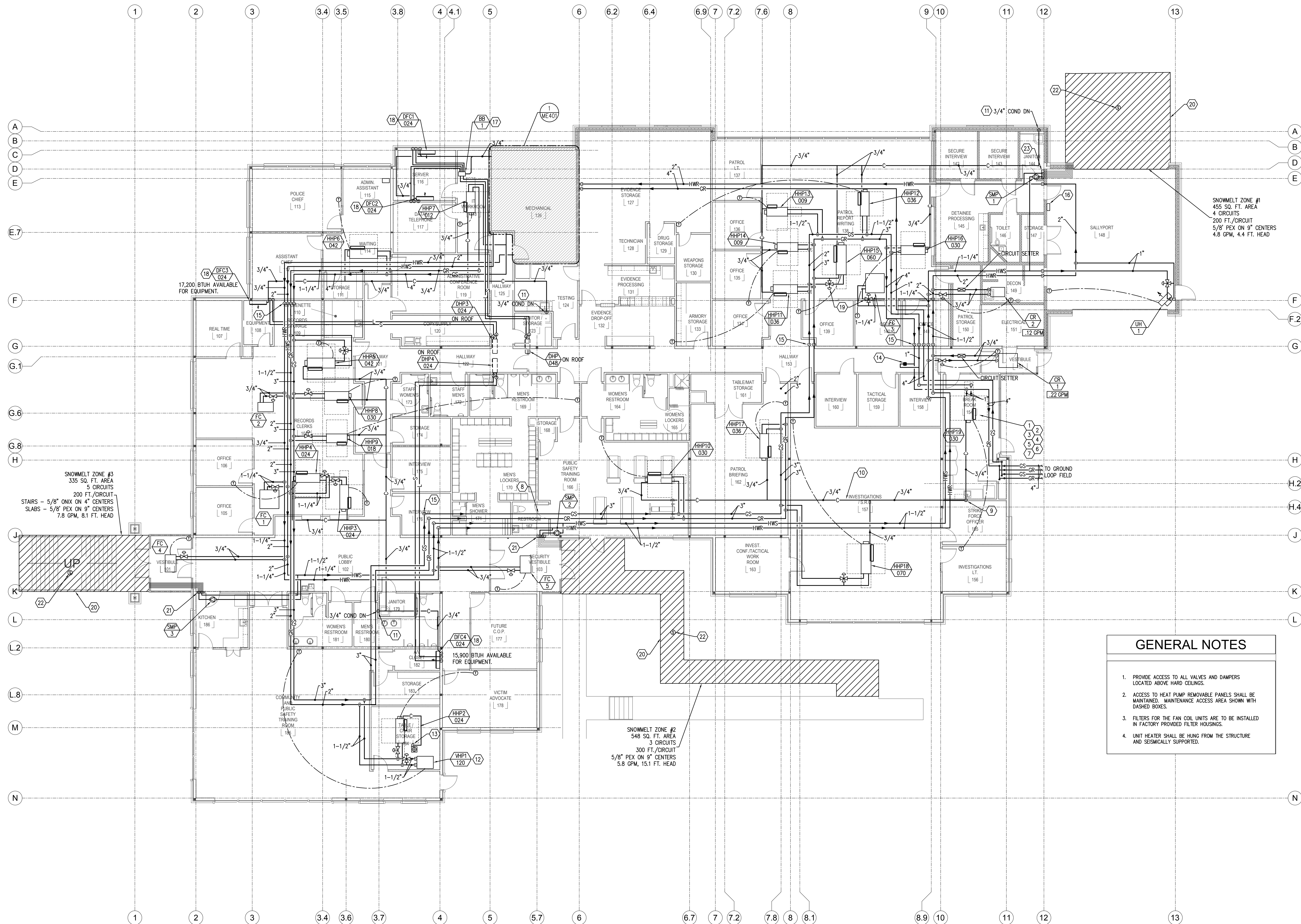
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MECHANICAL  
SCHEMATIC

ME702





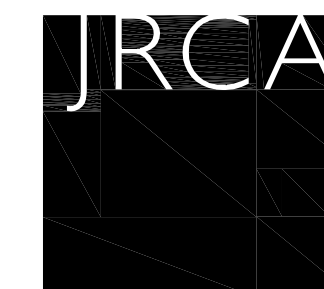
## # KEYED NOTES

- HANG THE HORIZONTAL HEAT PUMPS BELOW THE STRUCTURE MAKING SURE TO PROVIDE THE REQUIRED CLEARANCES TO THE MAINTENANCE PANELS ON THE SIDE OF THE UNIT. THE REQUIRED CLEARANCES SHALL BE MAINTAINED AT ALL TIMES. THE CLEARANCES ARE NOTED BY A DASHED BOX ON THE SIDES AND THE END OF THE HORIZONTAL HEAT PUMP, TYPICAL.
- ATC CONTROLS, VALVES, STRAINERS, SHUTOFFS, DISCONNECTS, ETC. MOUNTED ABOVE THE CEILINGS SHALL BE MOUNTED A MAXIMUM OF 24" ABOVE THE CEILING. IN ADDITION, ELECTRICAL EQUIPMENT MAY NOT BE MOUNTED TO THE CABINET OF THE HVAC EQUIPMENT, TYPICAL.
- A 2-WAY CONTROL VALVE SHALL BE PROVIDED AND INSTALLED IN THE PIPING TO ALL HEAT PUMPS, TYPICAL, UNLESS NOTED OTHERWISE.
- SEE THE PIPING SCHEMATIC FOR ADDITIONAL PIPING AND/OR EQUIPMENT, TYPICAL.
- SEE THE HEAT PUMP SCHEDULES FOR THE SIZE OF THE PIPE BRANCH. THE BRANCH PIPE IN MOST CASES IS NOT THE SAME SIZE AS THE UNIT CONNECTIONS, TYPICAL.
- HEAT PUMP HOSE KITS ARE SHIPPED PRE-ASSEMBLED. DIS-ASSEMBLE THE KIT AND RE-ASSEMBLE WITH THE VALVES, CONTROLS, STRAINERS, ETC. PER THE PIPING SCHEMATIC. HOSE KITS AND 2-WAY VALVES FOR VERTICAL HEAT PUMPS SHALL BE INSTALLED WHERE ACCESSIBLE WITHOUT ACCESSING VIA A LADDER. HORIZONTAL HEAT PUMP HOSE KITS AND 2-WAY VALVES MAY BE LOCATED ABOVE THE CEILING A MAXIMUM OF 24". PROVIDE ADDITIONAL PIPE CLAMPS, UNI-STRUT, ETC. WHERE REQUIRED. IN NO WAY SHALL THE PIPING BE SUPPORTED FROM THE DUCT OR HEAT PUMP CABINETS, TYPICAL.
- ACCESS TO HEAT PUMP CABINET PANELS SHALL BE MAINTAINED, TYPICAL.
- PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS OR EQUIPMENT, TYPICAL.
- DROP CONDENSATE DRAIN LINE DOWN IN AND CONNECT TO TAILPIECE OF SINK.
- SLOPE ALL CONDENSATE DRAIN PIPES A MINIMUM OF 1/8" PER FOOT, TYPICAL.
- DROP CONDENSATE DRAIN LINE DOWN IN WALL AND SPILL TO SERVICE SINK.
- RUN CONDENSATE DRAIN LINE FROM WHP HORIZONTALLY TIGHT AGAINST WALL AND SPILL TO FLOOR DRAIN.
- DROP CONDENSATE DRAIN LINE DOWN IN WALL AND SPILL TO FLOOR DRAIN.
- DIFFERENTIAL PRESSURE TRANSMITTER. INSTALL IN ACCESSIBLE LOCATION PRIOR TO SUPPLY BRANCH TO THE LAST UNIT.
- PIPES TO DROP DOWN AND PASS BELOW BEAM INTO LOWER ROOF AREA. COORDINATE WITH STRUCTURE.
- CO/NO CONTROL PANEL.
- BRANCH BOX LOCATED ABOVE CEILING. RUN CONDENSATE LINE TO MECHANICAL EQUIPMENT ROOM.
- RISE PUMPED CONDENSATE LINE FROM DUCTLESS FAN COIL UNIT UP ABOVE CEILING.
- 3-WAY CONTROL VALVE SHALL BE PROVIDED AND INSTALLED, TYPICAL AS SHOWN.
- HATCHING INDICATES SNOWMELT AREA.
- LOCATE SNOWMELT HEADER IN WALL WITH ACCESS PANEL. LOCATED ASSOCIATED PUMP ABOVE LAY-IN CEILING FOR ACCESS.
- SNOWMELT SENSOR. FIELD VERIFY EXACT LOCATION.
- LOCATE SNOWMELT PANEL ON WALL. MOUNT PUMP ON WALL BELOW CEILING AND ABOVE THE MANIFOLD PANEL.

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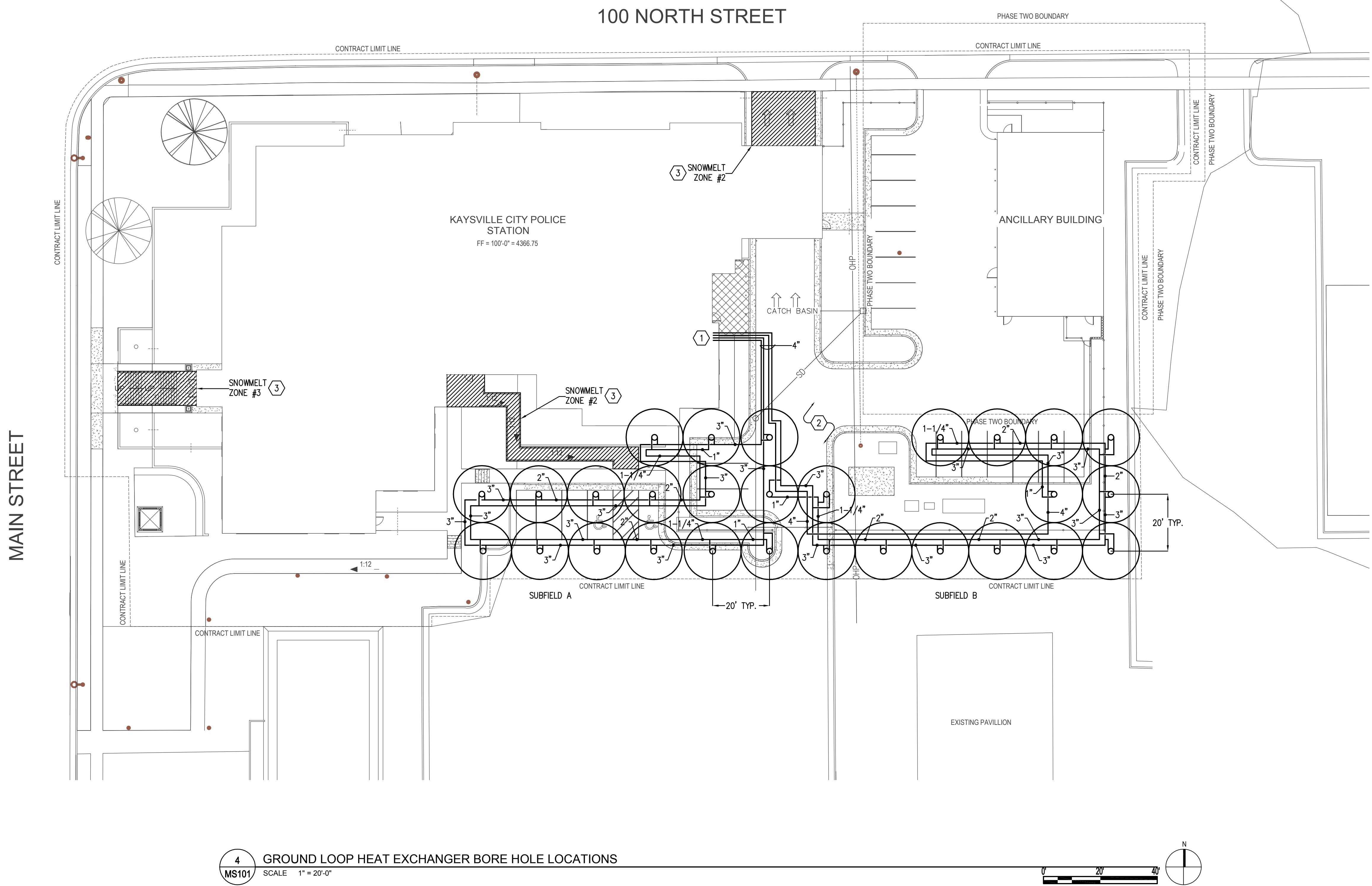
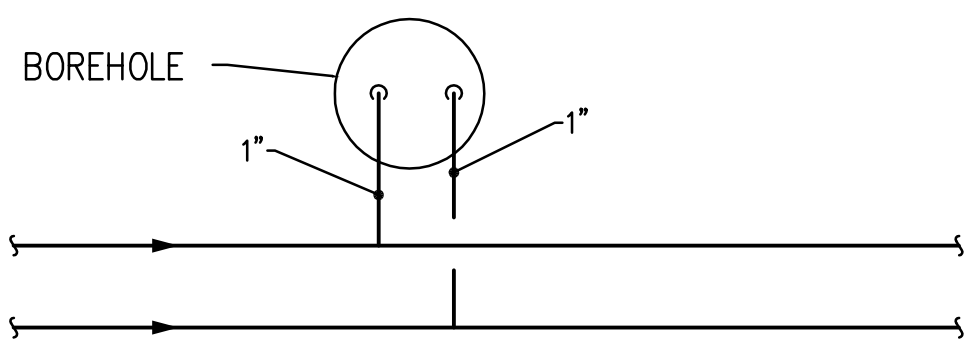
MECHANICAL  
PIPING PLAN

MP101

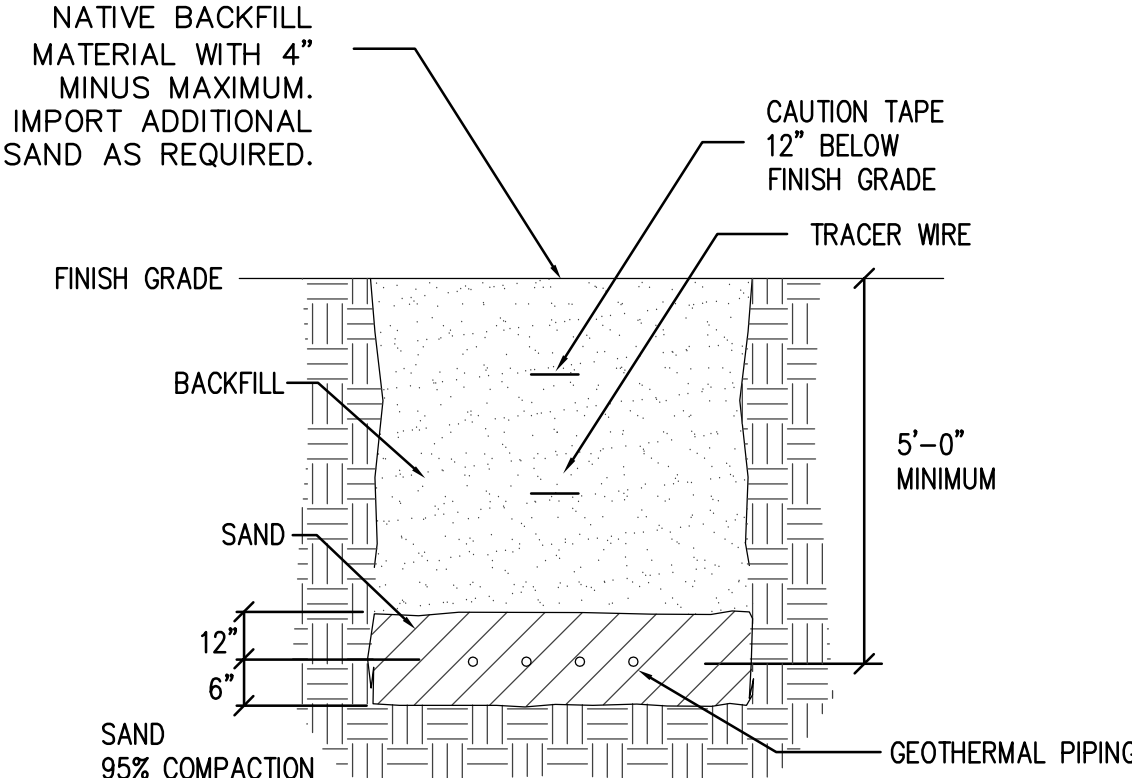
1 MAIN FLOOR MECHANICAL PLAN  
MP101 SCALE 1/8" = 1'-0"



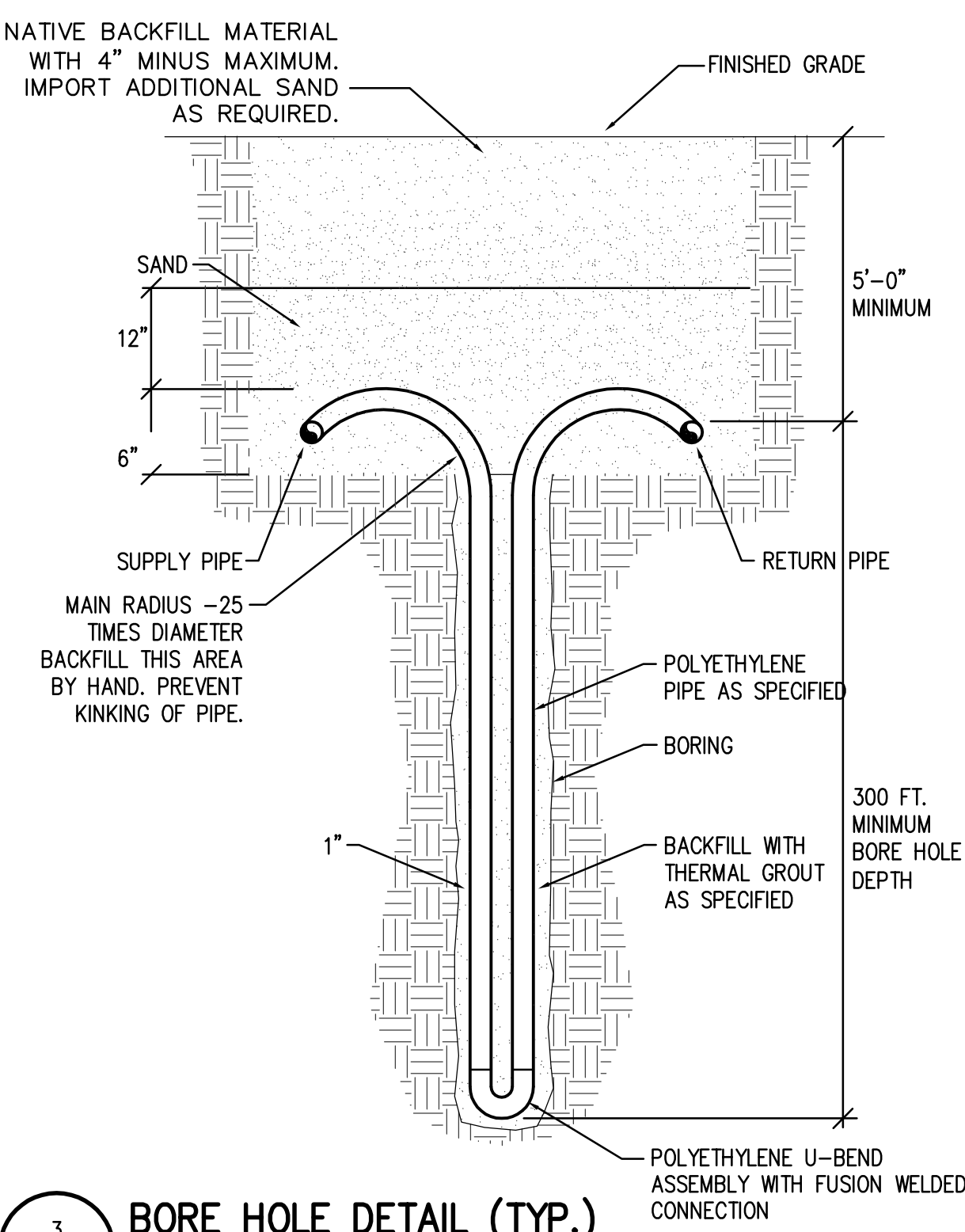




1 TYPICAL BOREHOLE CONNECTION IN SERIES  
NO SCALE



2 TRENCH DETAIL  
NO SCALE



3 BORE HOLE DETAIL (TYP.)  
NO SCALE

IMPORTANT

CALL BLUE STAKES AND HAVE THEM MARK THE SITE PRIOR TO ANY DIGGING OR EXCAVATION.

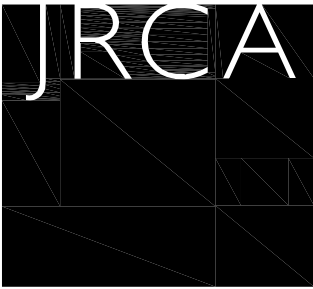
## KEYED NOTES

- SEE MECHANICAL PIPING PLAN FOR CONTINUATION OF PIPING IN BUILDING.
- INDEPENDENTLY FIELD VERIFY EXISTING CONDITIONS PRIOR TO DRILLING.
- SEE MECHANICAL PIPING PLAN FOR SNOWMELT PIPING AND INFORMATION.

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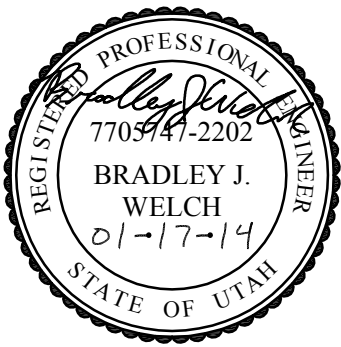
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KAYSVILLE, UTAH



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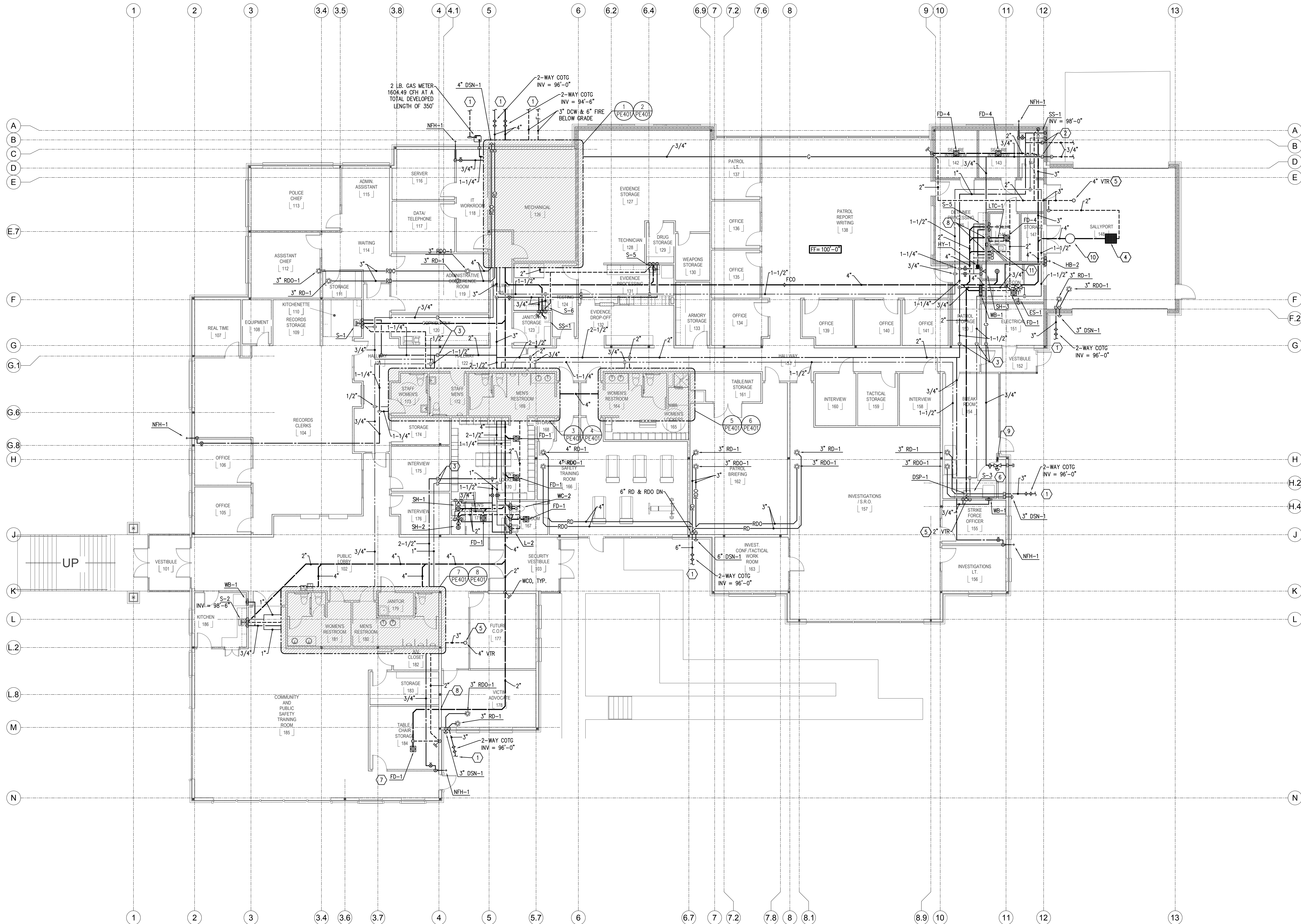
MECHANICAL SITE PLAN

MS101



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1 MAIN FLOOR WASTE AND VENT PIPING PLAN  
PE101 SCALE 1/8" = 1'-0"

## KEYED NOTES

- SEE CIVIL SITE UTILITY PLAN FOR CONTINUATION.
- DROP DW AND GAS LINE DOWN AGAINST WALL IN JANITOR CLOSET. PROVIDE WITH SHUT-OFF VALVE FOR EACH LINE. DROP DW LINE BELOW GRADE AND STUB GAS LINE THROUGH WALL AND DROP BELOW GRADE OUTSIDE OF THE BUILDING. RUN 3/4" DW AND GAS LINES TO ANCILLARY BUILDING. SEE ANCILLARY PLUMBING PLAN FOR CONTINUATION.
- RUN DW AND DHW LINES BELOW THE BEAM AND RISE UP INTO THE UPPER ROOF. COORDINATE WITH STRUCTURAL.
- INSTALL SEDIMENT/OIL INTERCEPTOR JR SMITH MODEL 8925-100, 100 LBS. SLUDGE CAPACITY WITH 2-12"x12" H2O DUCTILE IRON GRATES. STEEL BODY CONSTRUCTION WITH DUCO COATING AND SEDIMENT PAN WITH STAINLESS STEEL BUCKET WITH PERFORATED BACK AND SECONDARY SCREEN. INSTALL WITH TOP FLUSH TO FINISHED FLOOR.
- MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ALL FRESH AIR INTAKES.
- PROVIDE TAILPIECE CONNECTION ON THE SINK WASTE FOR CONDENSATE DRAIN LINE FROM THE HVAC EQUIPMENT. SEE MECHANICAL PLANS.
- PROVIDE A FLOOR DRAIN FOR CONDENSATE DRAIN FROM HVAC UNIT IN THE TABLE STORAGE. SEE MECHANICAL PLANS.
- SEWER LINE TO CROSS ABOVE FOOTING IN THIS AREA. COORDINATE INVERT DEPTH OF WASTE LINE WITH FOOTING.
- PROVIDE AND INSTALL GAS LINE WITH GAS COOK AND 2 LB. TO 4 OZ. PRESSURE REGULATOR IN ACCESSIBLE LOCATION. VENT TO ATMOSPHERE OR PROVIDE VENT LIMITING DEVICE. DROP 3/4" GAS LINE DOWN IN WALL. STUB THROUGH WITH A LOCKABLE GAS CONNECTION FOR GRILLE. COORDINATE LOCATION WITH OWNER/ARCHITECT.
- PROVIDE A 24" SAMPLE BOX, JENSEN PRECAST MODEL 200 OR EQUAL. SAMPLE BOX TO BE RATED FOR H-20 TRAFFIC. COORDINATE LOCATION WITH OWNER/ARCHITECT FOR EASE OF ACCESS. INLET LINE TO BE 3 TO 4" LOWER THAN OUTLET PER CENTRAL DAVIS SEWER DISTRICT.
- LOCATE ELECTRONIC MODULAR FLUSH VALVE CONTROLLER ABOVE THE COUNTER IN DETAINEE PROCESSING - 146. COORDINATE LOCATION WITH ARCHITECT, POWER BY ELECTRICAL.

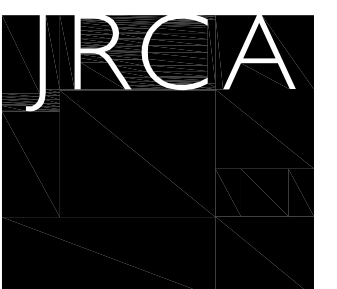
## GENERAL NOTES

- COORDINATE PIPING WITH STRUCTURE AND ALL OTHER TRADES, TYPICAL.
- LOCATE SHUT-OFF VALVES IN ACCESSIBLE LOCATION. INSTALL ABOVE LAY-IN CEILING OR PROVIDE WITH CEILING MOUNTED ACCESS PANEL, TYPICAL.
- WATER HAMMER ARRESTOR VALVES INSTALLED IN DW LINE TO BE INSTALLED IN ACCESSIBLE LOCATION. INSTALL ABOVE LAY-IN CEILING OR PROVIDE WITH CEILING MOUNTED ACCESS PANEL, TYPICAL.
- NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL PANELS OR UNDERNEATH HVAC EQUIPMENT, TYPICAL.
- PROVIDE A CLEANOUT AT THE BASE OF EACH SOIL STACK IN ACCESSIBLE LOCATION, TYPICAL.
- SLOPE ALL CONDENSATE DRAIN LINES A MINIMUM OF 1/8" PER FOOT, TYPICAL.
- PROVIDE A THERMOSTATIC MIXING VALVE THAT MEETS ASSE 1070 FOR ALL LAVATORIES, TYPICAL.

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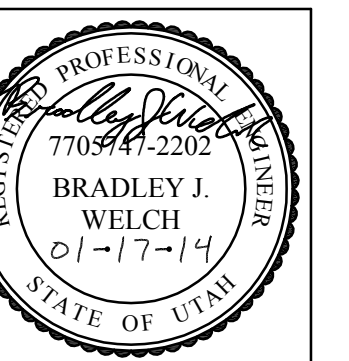
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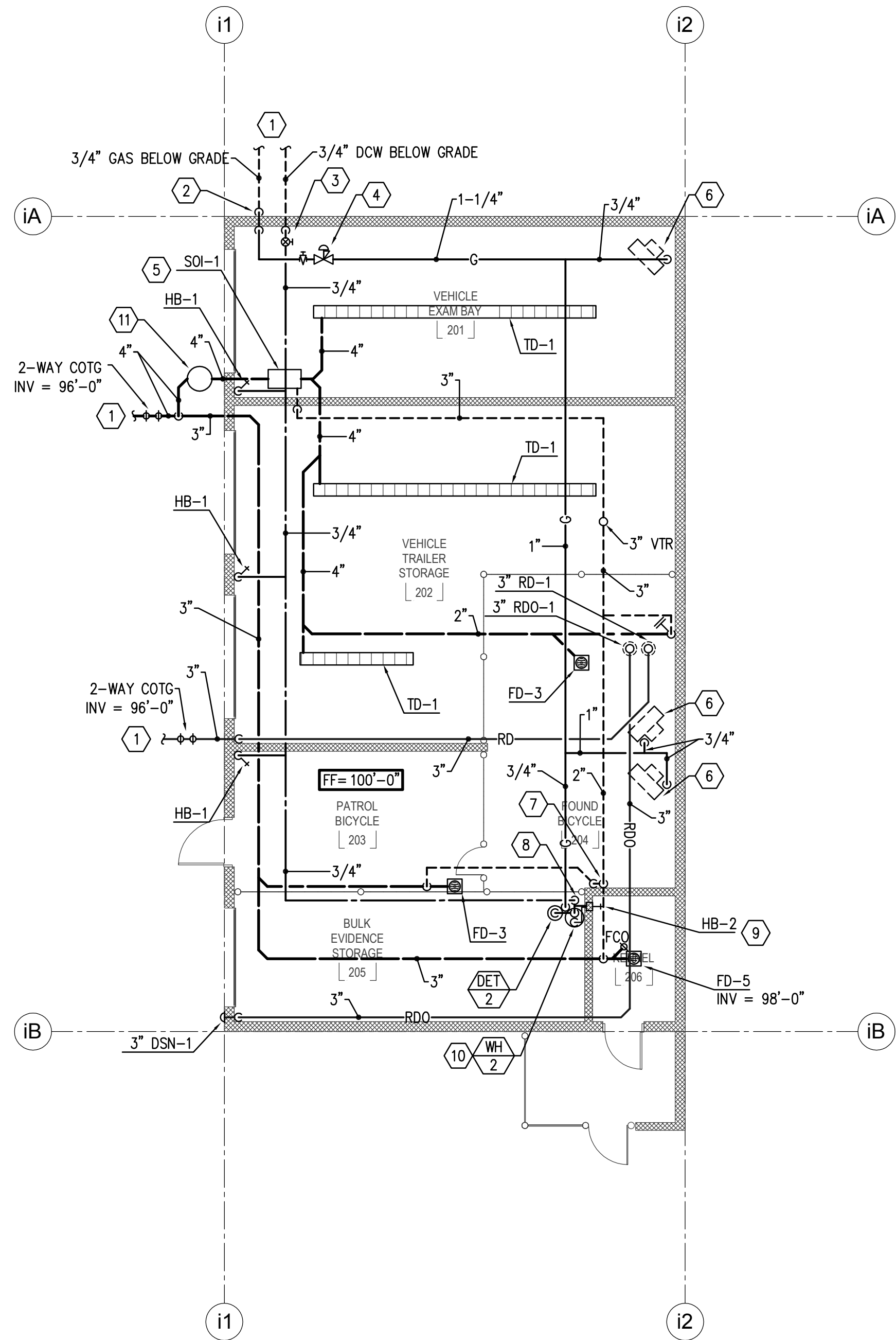
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MAIN FLOOR  
PLUMBING PLAN

PE101





1  
PE102

ANCILLARY BUILDING PLUMBING PLAN

SCALE 1/8" = 1'-0"



## # KEYED NOTES

1. DCW AND GAS LINES FROM MAIN BUILDING.
2. GAS LINE TO RISE UP ABOVE GRADE OUTSIDE OF THE BUILDING BEFORE PENETRATING THE WALL.
3. PROVIDE AND INSTALL MAIN BUILDING SHUT-OFF VALVE IN ACCESSIBLE LOCATION.
4. PROVIDE AND INSTALL GAS LINE WITH GAS COOK AND 2 LB. TO 4 OZ. PRESSURE REGULATOR IN ACCESSIBLE LOCATION. VENT TO ATMOSPHERE OR PROVIDE VENT LIMITING DEVICE. CONTINUE 4 OZ. LINE TO THE GAS FIRED UNIT HEATERS.
5. INSTALL SAND/OIL INTERCEPTOR LID FLUSH WITH FINISHED FLOOR. PROVIDE WITH EXTENSIONS AS NECESSARY.
6. HVAC EQUIPMENT, SEE MECHANICAL PLANS. PROVIDE WITH GAS COOK, DIRT LEG AND TEST TEE PRIOR TO MAKING CONNECTION TO UNIT.
7. RISE SEPARATE VENT LINES FROM BELOW GRADE UP AGAINST THE WALL TO ABOVE THE FLOOD RIM, TIE TOGETHER AND RISE A SINGLE VENT LINE UP INTO THE CEILING SPACE.
8. DROP DCW LINE DOWN AGAINST THE WALL. PROVIDE WITH A SHUT-OFF VALVE AND BRANCH TO THE INSTANTANEOUS WATER HEATER AND THE BOX TYPE HOSE BIB.
9. BOX TYPE HOSE BIB TO HAVE BOTH HOT AND COLD WATER CONNECTIONS. HOSE BIB SHALL BE INSTALLED FLUSH TO THE INSIDE OF THE DOG KENNEL, A MINIMUM OF 3'-0" A.F.F. AND SHALL HAVE A LOCKING HINGED DOOR TO PROTECT FROM THE DOGS.
10. GAS FIRED WATER HEATER TO LOCATED IN THE CONDITIONED SPACE, IN CLOSE PROXIMITY TO THE HOSE BIB LOCATION. PROVIDE AND INSTALL GAS COOK, DIRT LEG AND TEST TEE PRIOR TO MAKING FINAL CONNECTION TO GAS LINE.
11. PROVIDE A 24" SAMPLE BOX, JENSEN PRECAST MODEL 200 OR EQUAL. SAMPLE BOX TO BE RATED FOR H-20 TRAFFIC. COORDINATE LOCATION WITH OWNER/ARCHITECT FOR EASE OF ACCESS. INLET LINE TO BE 3 TO 4" LOWER THAN OUTLET PER CENTRAL DAVIS SEWER DISTRICT.

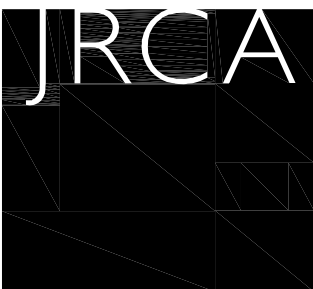
## GENERAL NOTES

1. COORDINATE PIPING WITH STRUCTURE AND ALL OTHER TRADES, TYPICAL.
2. LOCATE SHUT-OFF VALVES IN ACCESSIBLE LOCATION, TYPICAL.
3. NO PIPING SHALL BE INSTALLED ABOVE ELECTRICAL PANELS OR UNDERNEATH HVAC EQUIPMENT, TYPICAL.

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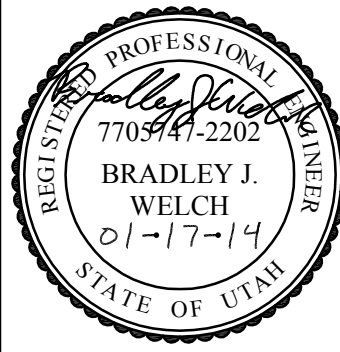
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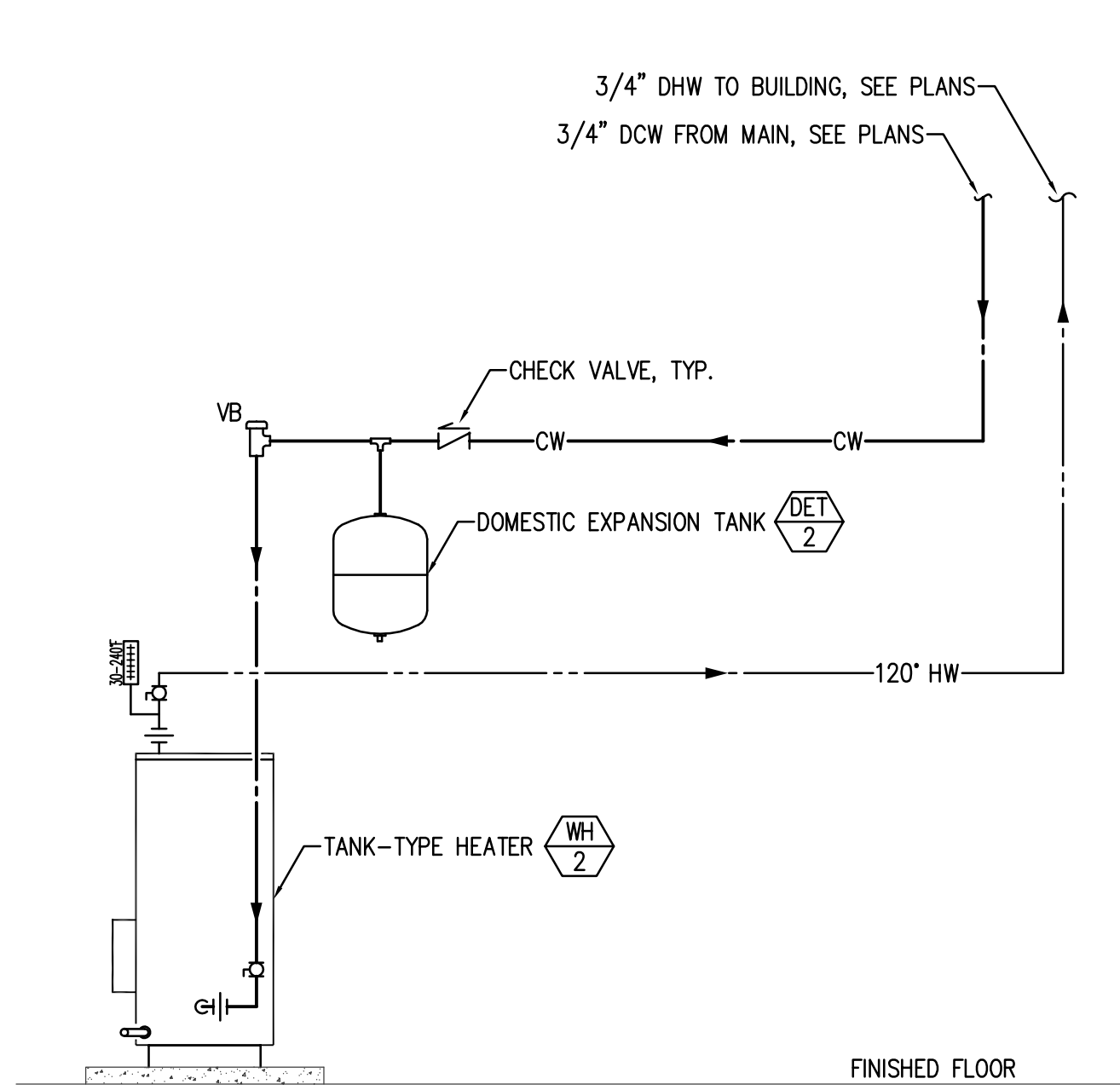
ANCILLARY  
BUILDING  
PLUMBING PLAN

PE102

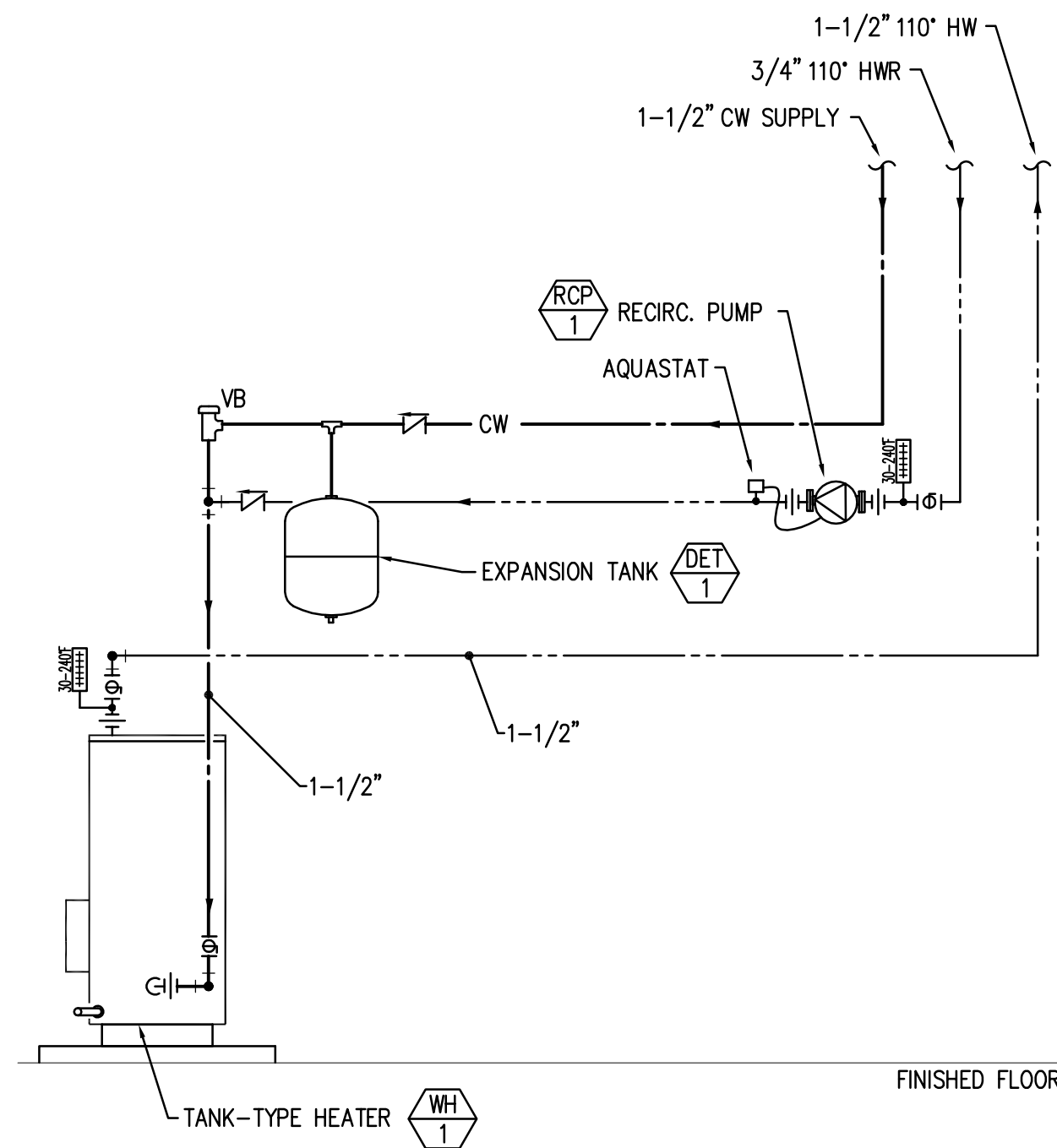




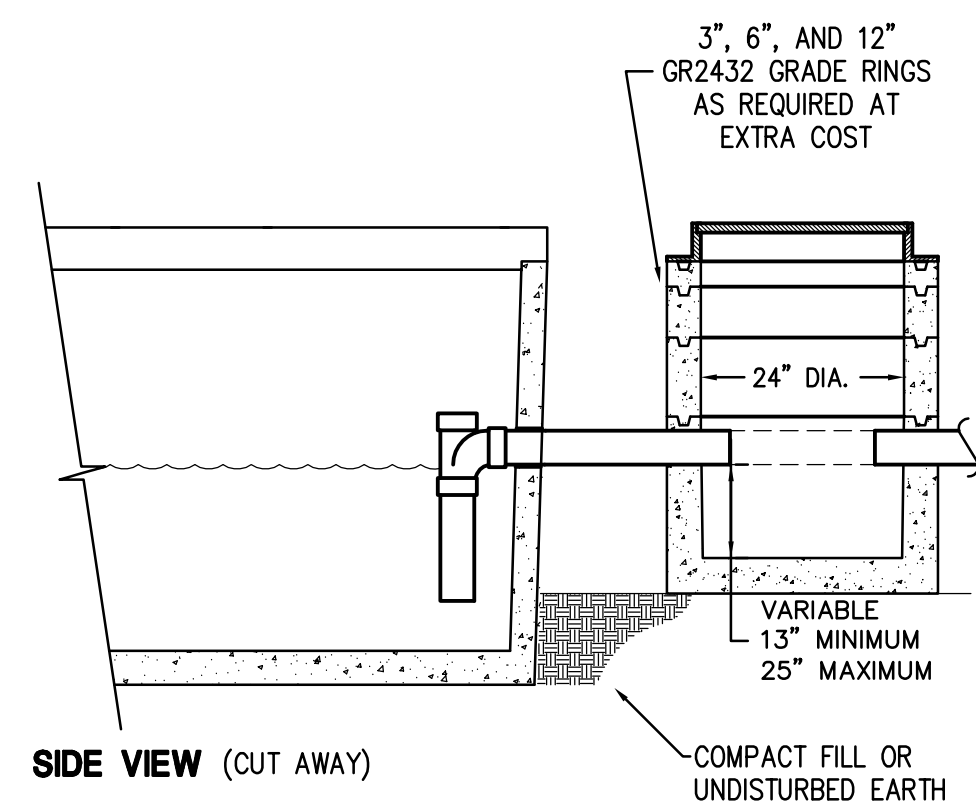
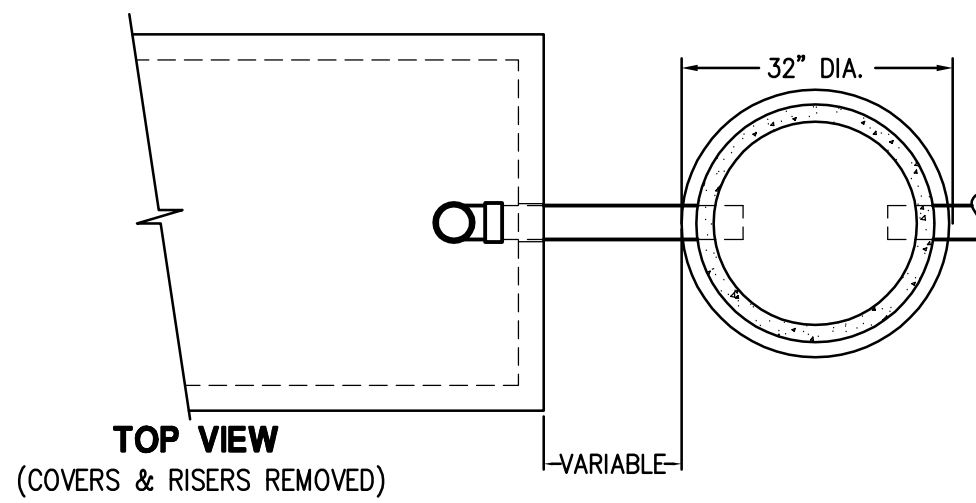




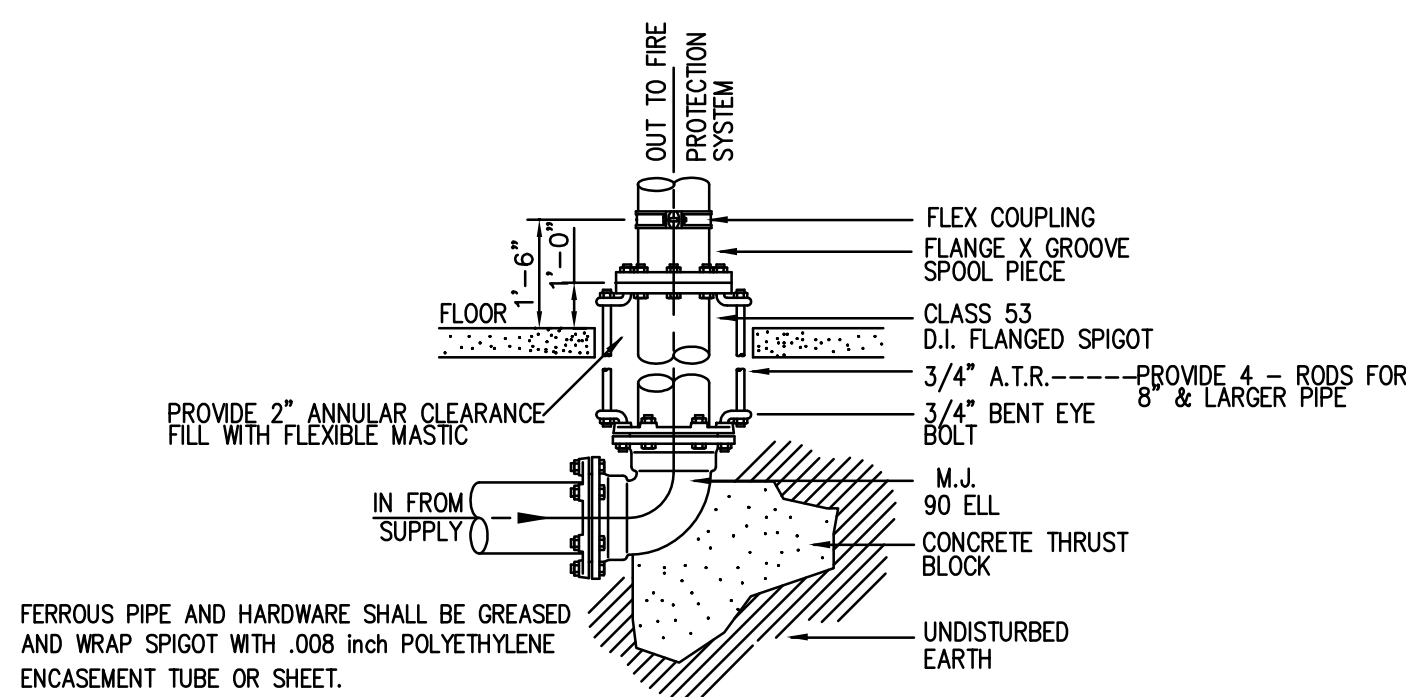
13 DOMESTIC WATER HEATER SCHEMATIC – ANCILLARY  
PE501 NO SCALE



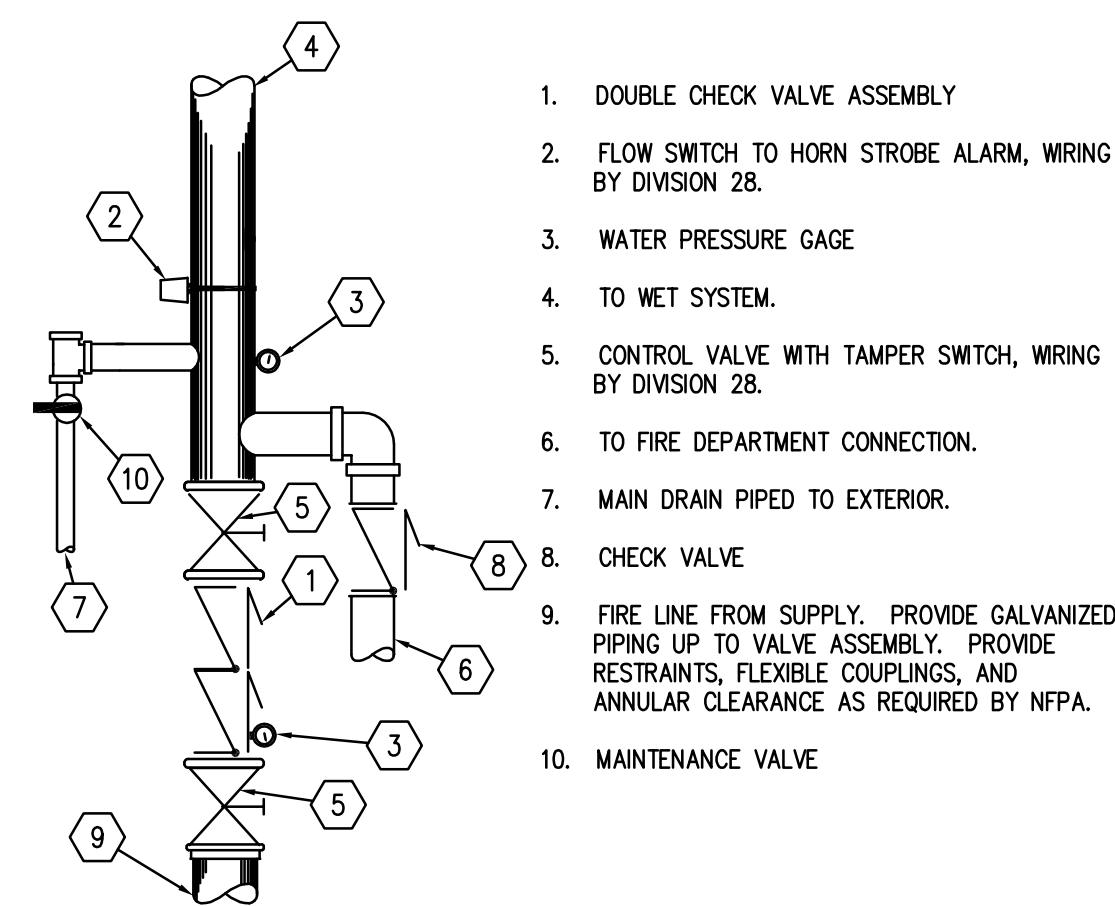
10 DOMESTIC WATER HEATER PIPING SCHEMATIC  
PE501 NO SCALE



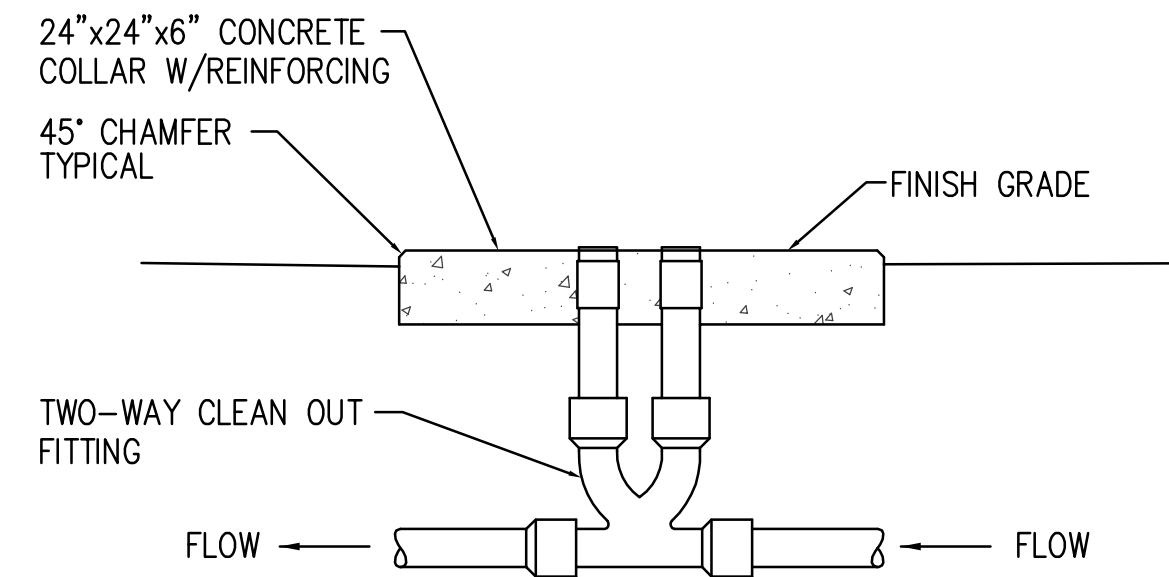
14 SAND-OIL INTERCEPTOR (500 GAL)  
PE501 NO SCALE



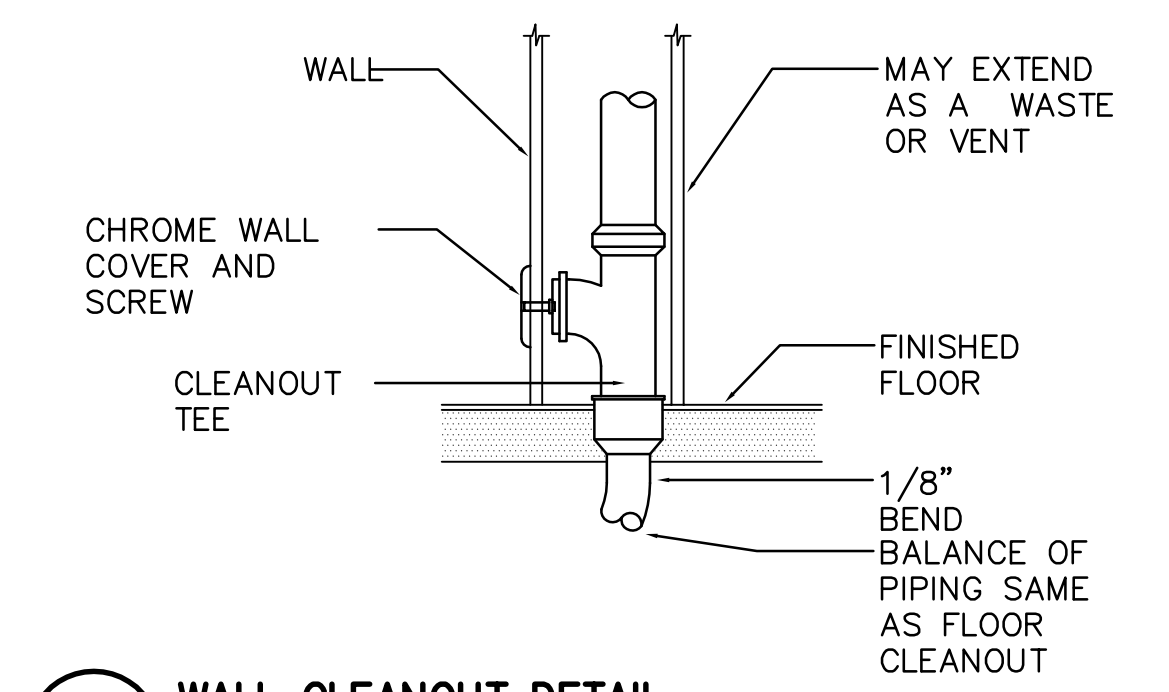
11 STEEL FLANGED SPIGOT DETAIL  
PE501 NO SCALE



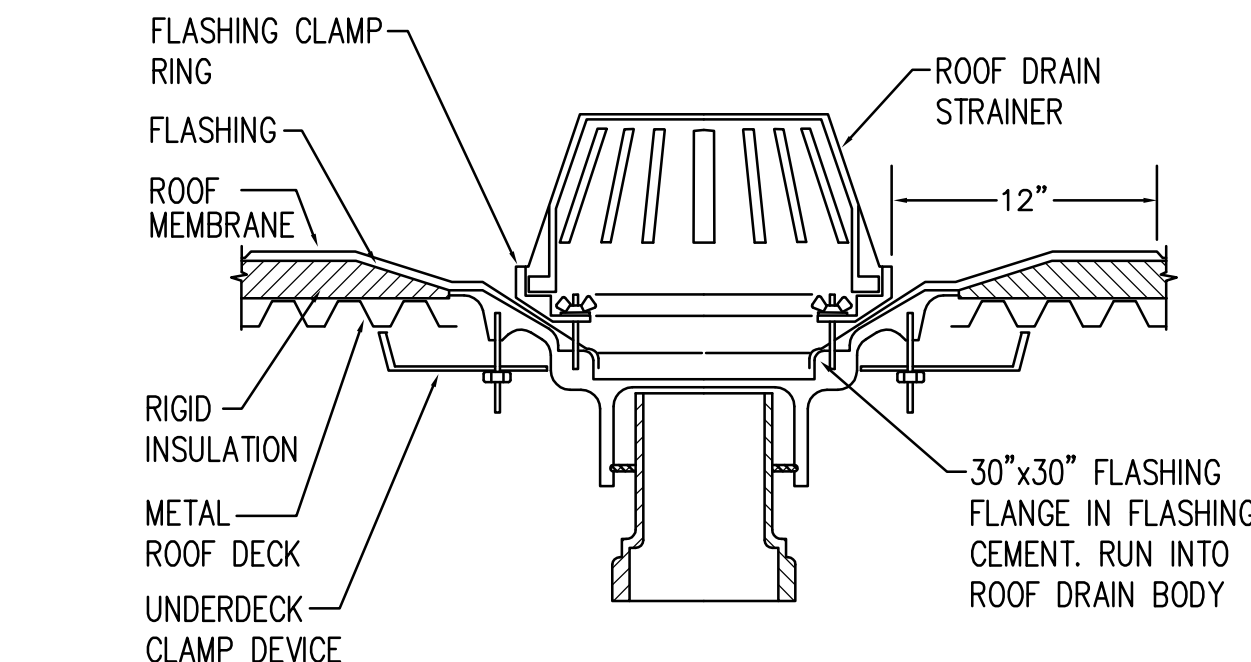
12 FIRE SPRINKLER RISER DETAIL  
PE501 NO SCALE



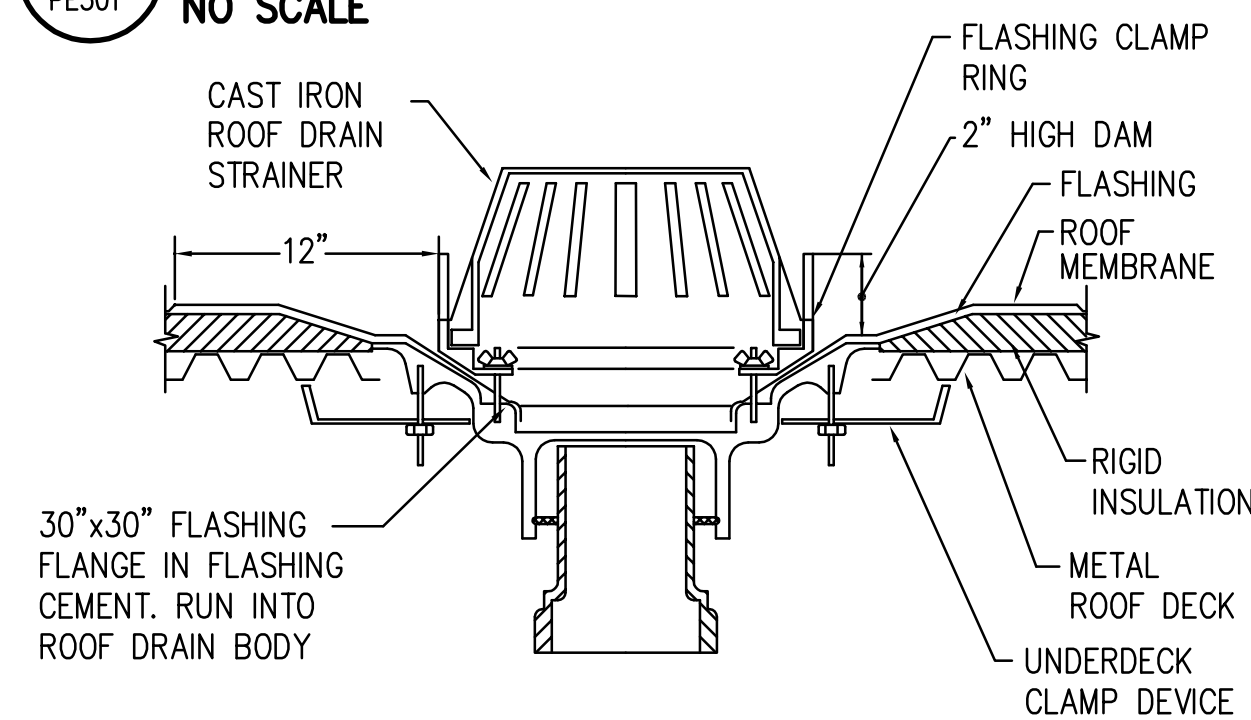
5 CLEANOUT TO GRADE DETAIL (COTG)  
PE501 NO SCALE



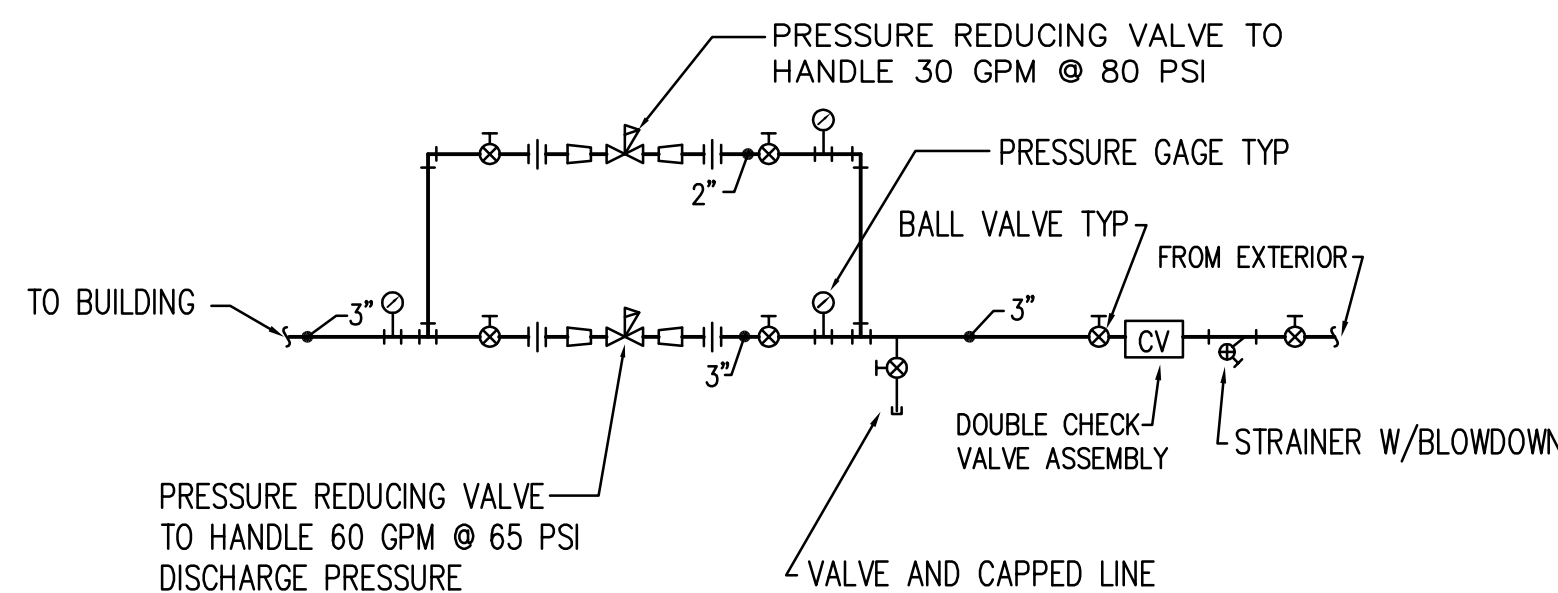
6 WALL CLEANOUT DETAIL  
PE501 NO SCALE



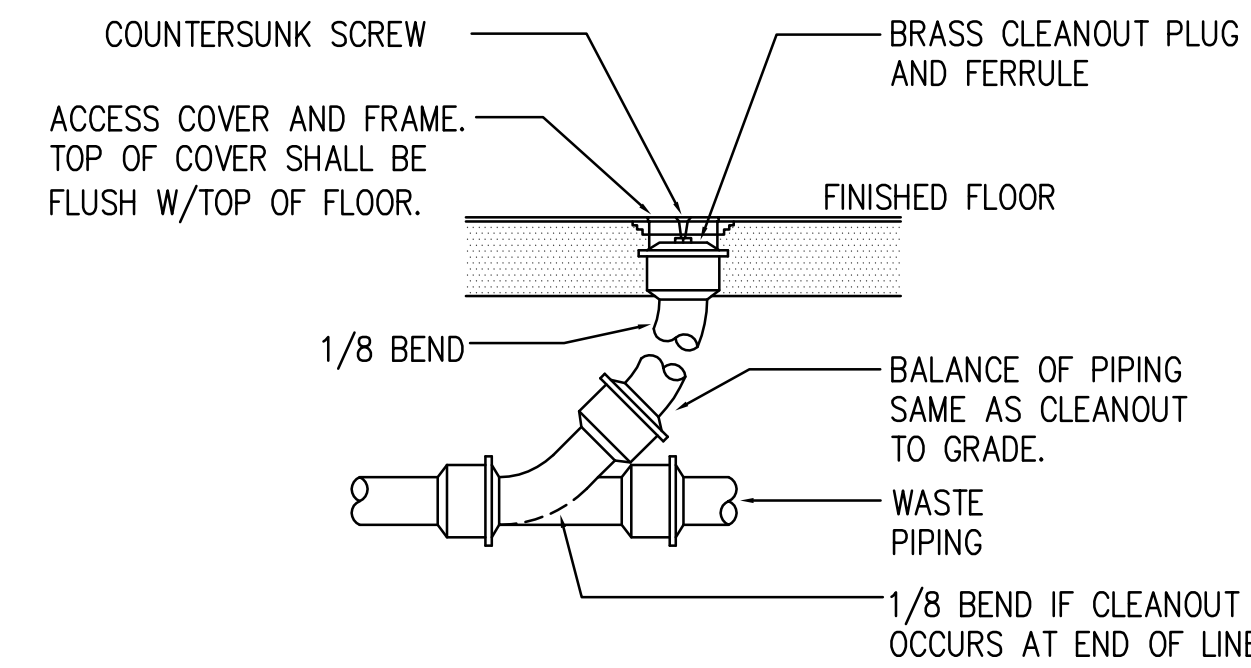
7 ROOF DRAIN  
PE501 NO SCALE



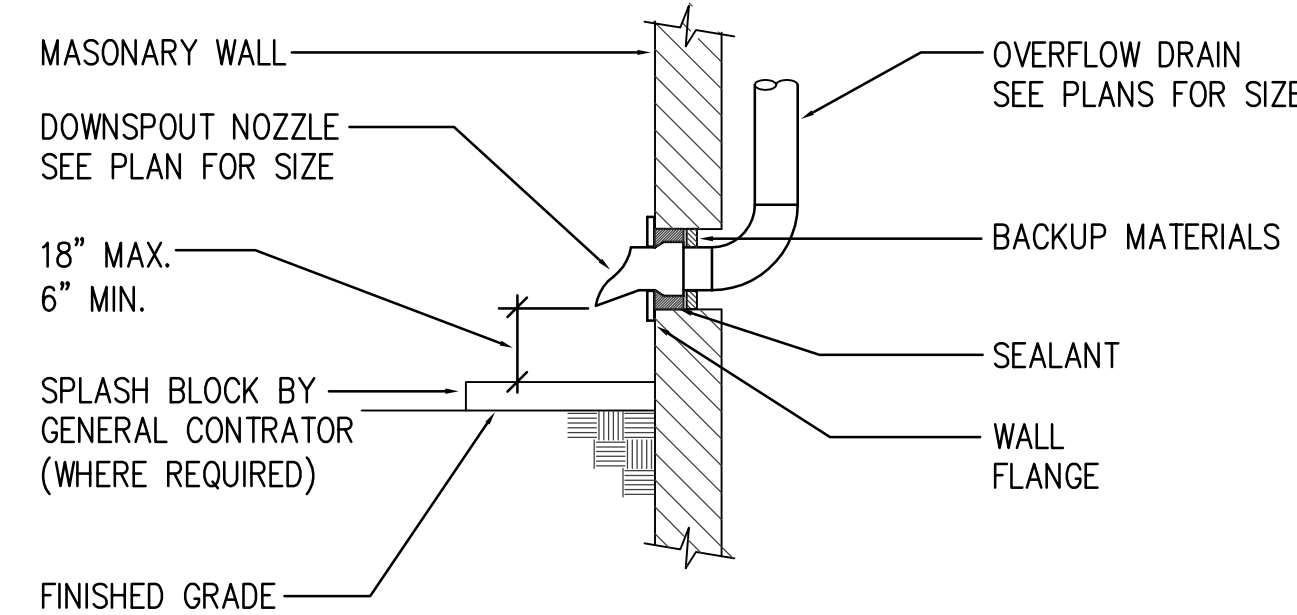
8 OVERFLOW ROOF DRAIN DETAIL  
PE501 NO SCALE



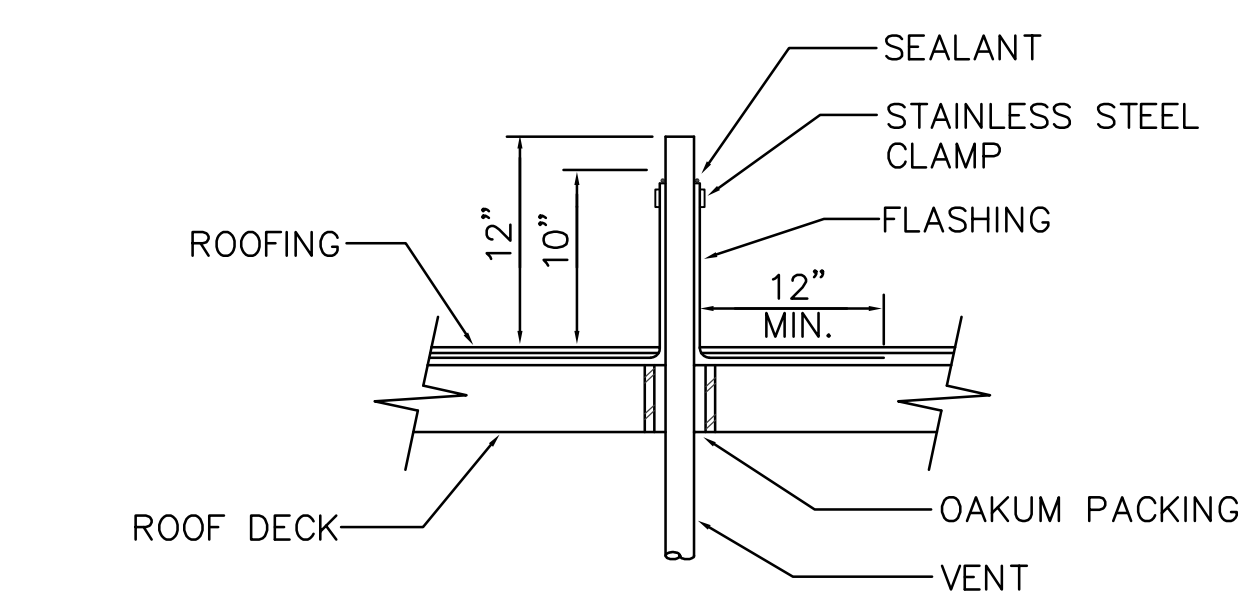
9 PRV DETAIL  
PE501 NO SCALE



1 FLOOR CLEANOUT DETAIL  
PE501 NO SCALE



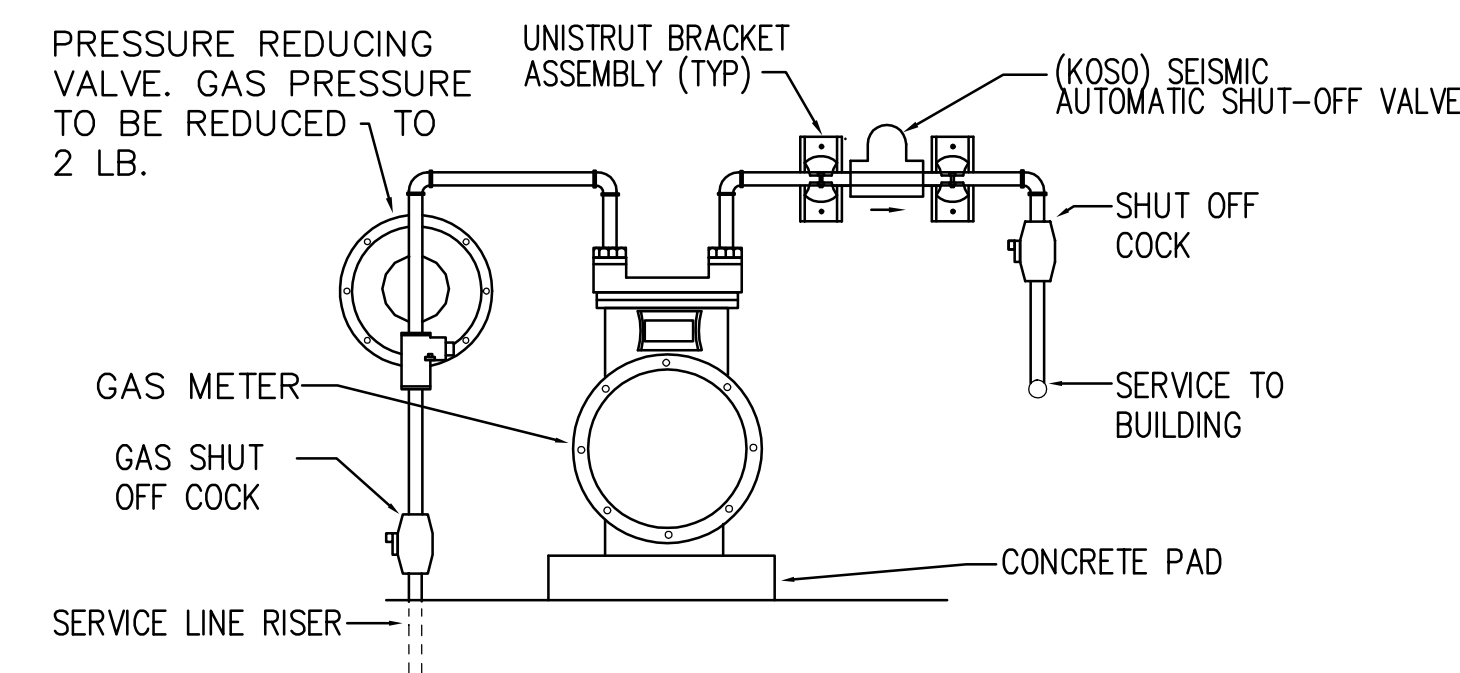
2 DOWNSPOUT NOZZLE DETAIL  
PE501 NO SCALE



3 VENT THRU ROOF FLASHING & SLEEVING DETAIL  
PE501 NO SCALE

| BRANCH WATER LINE SCHEDULE          |               |                                |      |    |        |        |     |
|-------------------------------------|---------------|--------------------------------|------|----|--------|--------|-----|
| FIXTURE                             | FIXTURE UNITS | QUANTITY OF FIXTURES SERVED BY |      |    |        |        |     |
|                                     |               | 1/2"                           | 3/4" | 1" | 1-1/4" | 1-1/2" | 2"  |
| WATER CLOSET (FLUSH VALVE)          | 10            | ---                            | ---  | 1  | 3      | 5      | 15  |
| WATER CLOSET (TANK TYPE)            | 3             | 1                              | 2    | 4  | 10     | ---    | --- |
| URINAL                              | 5             | ---                            | 1    | 2  | 6      | 10     | 30  |
| LAVATORY                            | 2             | 1                              | 3    | 6  | 15     | 25     | --- |
| SERVICE SINK                        | 4             | ---                            | 1    | 3  | ---    | ---    | --- |
| QUANTITY OF FIXTURE UNITS SERVED BY | ---           | 3                              | 6    | 12 | 30     | 50     | 150 |

NOTE:  
WHERE PIPING IS SIZED ON DRAWINGS IT SHALL BE FOLLOWED. OTHERWISE INSTALL  
ACCORDING TO TABLE. WHERE FIXTURES ON A BRANCH ARE MIXED. TAKE THE SUM OF  
FIXTURE UNITS TO DETERMINE SIZING. THE BRANCHES SHALL BE REDUCED AS THE LOAD  
IS TAKEN OFF. MINIMUM SIZE TO ONE (1) FIXTURE SHALL BE 1/2".

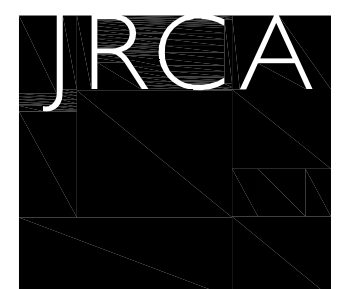


4 GAS METER DETAIL  
PE501 NO SCALE

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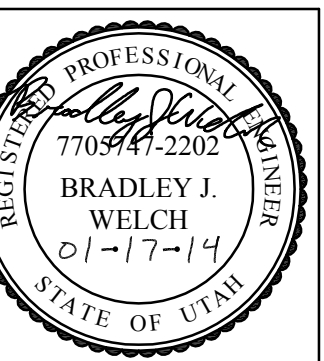
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PLUMBING DETAILS

PE501



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| PLUMBING FIXTURE SCHEDULE |                         |            |            |           |           |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |
|---------------------------|-------------------------|------------|------------|-----------|-----------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| ID                        | FIXTURE                 | CW<br>(IN) | HW<br>(IN) | W<br>(IN) | V<br>(IN) | NOTES                                       | SPECIFICATIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| DSN-1                     | DOWNSPOUT NOZZLE        | --         | --         | --        | --        | SEE PLANS FOR SIZE                          | DOWNSPOUT NOZZLE: SMITH 1770 DOWNSPOUT NOZZLE WITH CAST BRONZE BODY AND FLANGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |
| DSP-1                     | GARBAGE DISPOSER        | --         | --         | 1 1/2     | 1 1/2     | 120 V/60 Hz/1 Ph.                           | GARBAGE DISPOSER: INSINKERATOR BADGER 5 FOOD WASTE DISPOSER WITH 1/2 HORSEPOWER MOTOR, 120 VOLT/1 PHASE POWER CONNECTION, 6.9 AMPS. PROVIDE WITH WALL SWITCH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| ES-1                      | EMERGENCY EYE WASH      | 1/2        | 1/2        | --        | --        | --                                          | EMERGENCY EYE WASH (FLOOR MOUNTED ADA): ACORN SAFETY S-0340 PEDESTAL, STAINLESS STEEL RECEPTOR, DUAL SPRAY HEADS AND FLOOR FLANGE, IN-LINE STRAINER AND A STAY OPEN 1/2" BALL VALVE WITH PUSH HANDLE. PROVIDE WITH FACTORY THERMOSTATIC MIXING VALVE FOR DELIVERY OF TEPID WATER PER ANSI Z358.1-2004. CONNECT 1/2" TEMPERED WATER LINE FROM MIXING VALVE. LOCATE MIXING VALVE ON THE WALL IN ACCESSIBLE LOCATION.                                                                                                                                                                                                                                                                                          |  |  |
| EW-1                      | ELECTRIC WATER COOLER   | 1/2        | 1/2        | 1 1/2     | 1 1/2     | ADA, DUAL STATION                           | ELECTRIC WATER COOLER: ELKAY EZSTL&C DUAL STATION, WALL MOUNTED, BARRIER FREE, ADA ELECTRIC WATER COOLER WITH FLEXIBLE BUBBLER GUARD, STAINLESS STEEL BOWLS AND CONTROL BUTTONS ON FRONT AND SIDED. COMPRESSOR TO BE 115V, 60 HZ WITH CAPACITY TO DELIVER AT LEAST 8.0 GPH OF 50F WATER. 1-1/2" CAST BRASS CHROME-PLATED P-TRAPS. ADA SIDE TO BE ON THE LEFT.                                                                                                                                                                                                                                                                                                                                               |  |  |
| FD-1                      | FLOOR DRAIN             | --         | --         | 2         | 2         | RESTROOM                                    | FLOOR DRAIN (RESTROOM): SMITH FIGURE 2005Y FLOOR DRAIN WITH CAST IRON BODY, DEEP SEAL P-TRAP AND FLASHING COLLAR WITH ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE. PROVIDE WITH TRAP GUARD PART-TG22 2" INSERT TO FIT INSIDE THE STRAINER TAILPIECE. PROVIDE APPROPRIATE TRAP GUARD FOR SPECIFIC APPROVED MANUFACTURER'S DRAIN.                                                                                                                                                                                                                                                                                                                                                         |  |  |
| FD-2                      | FLOOR DRAIN             | --         | --         | 3         | 2         | MECHANICAL ROOM                             | FLOOR DRAIN (MECHANICAL ROOM): SMITH 2220Y FLOOR DRAIN WITH CAST IRON BODY, DEEP SEAL P-TRAP AND FLASHING COLLAR WITH 8" CAST IRON GRATE AND SEDIMENT BUCKET, 3" OUTLET, NO-HUB CONNECTION. PROVIDE WITH TRAP GUARD PART-TG3H-SJ. 3" INSERT TO FIT INSIDE THE STRAINER TAILPIECE. PROVIDE APPROPRIATE TRAP GUARD FOR SPECIFIC APPROVED MANUFACTURER'S DRAIN.                                                                                                                                                                                                                                                                                                                                                |  |  |
| FD-3                      | FLOOR DRAIN             | --         | --         | 2         | 2         | GARAGE DRAIN                                | FLOOR DRAIN (GARAGE): SMITH 2233Y HEAVY DUTY FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 12" CAST IRON TRACTOR GRATE AND SEDIMENT BUCKET, 2" OUTLET, NO-HUB CONNECTION. PROVIDE WITH TRAP GUARD PART-TG22 2" INSERT TO FIT INSIDE THE STRAINER TAILPIECE. PROVIDE APPROPRIATE TRAP GUARD FOR SPECIFIC APPROVED MANUFACTURER'S DRAIN.                                                                                                                                                                                                                                                                                                                                                           |  |  |
| FD-4                      | FLOOR DRAIN             | --         | --         | 2         | 2         | SECURE FLOOR DRAIN                          | FLOOR DRAIN (SECURITY) SMITH FIGURE 2005Y FLOOR DRAIN WITH CAST IRON BODY, DEEP SEAL P-TRAP AND FLASHING COLLAR WITH 6" ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE, VANDAL PROOF SCREWS. PROVIDE WITH TRAP GUARD PART-TG22 2" INSERT TO FIT INSIDE THE STRAINER TAILPIECE. PROVIDE APPROPRIATE TRAP GUARD FOR SPECIFIC APPROVED MANUFACTURER'S DRAIN.                                                                                                                                                                                                                                                                                                                                  |  |  |
| FD-5                      | FLOOR DRAIN             | --         | --         | 3         | 2         | KENNEL DRAIN                                | FLOOR DRAIN (DOG KENNEL) SMITH FIGURE 2008Y FLOOR DRAIN WITH CAST IRON BODY, DEEP SEAL P-TRAP AND FLASHING COLLAR WITH 8" ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE, VANDAL PROOF SCREWS. 3" OUTLET, NO-HUB CONNECTION.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| HB-1                      | HOSE BIB                | 3/4        | --         | --        | --        | --                                          | HOSE BIB: ACORN 8121 HOSE VALVE WITH VACUUM BREAKER, 3/4" MALE HOSE THREAD AND LOOSE KEY HANDLE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |
| HB-2                      | HOSE BIB                | 3/4        | --         | --        | --        | --                                          | HOSE BIB: JR SMITH 5560QT-SAP-H-WH BRONZE PLATE QUARTER TURN TWIN TEMP HYDRANT, 3/4" HOSE CONNECTION, SELF DRAINING VACUUM BREAKER, "T" HANDLE KEY FOR HINGED LOCKING COVER, BRONZE BOX WITH CHROME PLATED FACE, WHEEL HANDLE, 3/4" MALE INLET.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |
| L-1                       | LAVATORY                | 1/2        | 1/2        | 1 1/2     | 1 1/2     | COUNTER MOUNTED                             | LAVATORY (COUNTER MOUNTED): KOHLER K-2196-4 PENNINGTON SELF RIMMING VITREOUS CHINA OVAL LAVATORY WITH 4" FAUCET CENTERS; K-7715 OPEN GRID STRAINER; TECHNICAL CONCEPTS 500484 MILANO BATTERY POWERED SENSOR FAUCET WITH 0.5 GPM VANDAL RESISTANT AERATOR. FAUCET TO BE PROVIDED WITH FACTORY MIXING VALVE TO MEET ASSE 1070 WITH 3/8" COMPRESSION CONNECTIONS AND IN-LINE CHECKS. PROVIDE WATTS NO. 7 DUAL CHECKS IN HOT AND COLD SUPPLIES. PROVIDE LOOSE KEY ANGLE STOPS AND CHROME PLATED COPPER SUPPLIES AND 17 GA. CAST BRASS, CHROME PLATED "P" TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HAND-LAV GUARD" PROTECTOR AS NEEDED TO MEET ADA REQUIREMENTS.                                               |  |  |
| L-2                       | LAVATORY                | 1/2        | 1/2        | 1 1/2     | 1 1/2     | WALL HUNG                                   | LAVATORY (WALL HUNG): KOHLER K-2032 GREENWICH 20" X 18", "D" SHAPED BOWL, VITREOUS CHINA, WALL-MOUNT LAVATORY WITH DUAL FRONT OVERFLOW, 4" FAUCET CENTERS; K-7715 OPEN GRID STRAINER; TECHNICAL CONCEPTS 500484 MILANO BATTERY POWERED SENSOR FAUCET WITH 0.5 GPM MAXIMUM FLOW. FAUCET TO BE PROVIDED WITH FACTORY MIXING VALVE TO MEET ASSE 1070 WITH 3/8" COMPRESSION CONNECTIONS AND IN-LINE CHECKS. PROVIDE WATTS NO. 7 DUAL CHECKS IN HOT AND COLD SUPPLIES. PROVIDE VANDAL RESISTANT AERATOR. PROVIDE LOOSE KEY ANGLE STOPS AND CHROME PLATED COPPER SUPPLIES AND 17 GA. CAST BRASS, CHROME PLATED "P" TRAP. COVER ALL EXPOSED PIPING WITH WHITE "HAND-LAV GUARD" PROTECTOR TO MEET ADA REQUIREMENTS. |  |  |
| LTC-1                     | LAV-TOILET COMBY        | 1          | --         | 4         | 2         | SECURITY FIXTURE                            | LAV-TOILET COMBY: ACORN 1432FA ADA COMPLIANT FLOOR MOUNTED LAV-TOILET COMBY WITH WALL OUTLET, -AR RIGHT TOILET CONFIGURATION, -8P PENAL BUBBLER, -84-M AIR CONTROL PNEUMATICALLY OPERATED PUSH-BUTTON HOT AND COLD VALVE, -JLIF 1.6 GPF FLUSH VALVE, -MVCV TIME-TROL ELECTRONIC FLUSH VALVE WITH SOLENOID TYPE FLUSH VALVE USING LOW VOLTAGE, 24 VAC POWER (BY ELECTRICAL), -GBC GRAB BAR CLOSURE PLATE, FRONT ACCESS PANELS, CLEANOUT, VENTILATION GRILLE, 14 GAUGE 304 STAINLESS STEEL, SEAMLESS WELDED AND ELONGATED TOILET BOWL WITH INTEGRAL SEAT; PROVIDE WALL FASTENERS AS RECOMMENDED BY MANUFACTURER.                                                                                              |  |  |
| NFH-1                     | NON FREEZE WALL HYDRANT | 3/4        | --         | --        | --        | --                                          | NON-FREEZE HYDRANT: SMITH 5698QT NON-FREEZE WALL HYDRANT FOR WALL THICKNESS SHOWN ON PLAN. BRONZE HYDRANT, 3/4-INCH CONNECTION WITH BRASS CASING, INTEGRAL SELF-DRAINING VACUUM BREAKER, AND LOOSE KEY.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| RD-1                      | ROOF DRAIN              | --         | --         | --        | --        | SEE PLANS FOR SIZE                          | ROOF DRAIN: SMITH FIGURE 1010Y CAST IRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP, CAST IRON DOME, SUMP RECEIVER AND UNDERDECK CLAMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |
| RDO-1                     | ROOF DRAIN OVERFLOW     | --         | --         | --        | --        | SEE PLANS FOR SIZE                          | ROOF DRAIN OVERFLOW: SMITH FIGURE 1080Y CAST IRON BODY WITH COMBINED FLASHING CLAMP AND CAST IRON GRAVEL STOP, CAST IRON DOME, 2" HIGH WATER COLLAR, SUMP RECEIVER AND UNDERDECK CLAMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| S-1                       | KITCHENETTE SINK        | 1/2        | 1/2        | 2         | 1 1/2     | COUNTER MOUNTED, SINGLE COMPARTMENT         | SINK: JUST SL-2017-A-GR 14" X 14" X 7-1/2" DEEP, 18-GAUGE, TYPE 304 STAINLESS STEEL, COUNTER MOUNTED SINK WITH 8" CENTERS DRILLING; CHICAGO 786-GN2FC FAUCET, NO. 317 4" WRIST BLADES, GN2 RIGID/SWING CONVERTIBLE GOOSE NECK WITH 1.6 GPM FC LAMINAR FLOW CONTROL AND PLAIN END SPOUT RING; FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; JUST J-35 STAINLESS STEEL CUP STRAINER AND CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.                                                                                                                                                                                                                                                                |  |  |
| S-2                       | KITCHEN SINK            | 1/2        | 1/2        | 2         | 1 1/2     | COUNTER MOUNTED, SINGLE COMPARTMENT         | SINK: JUST SL-2017-A-GR 14" X 14" X 7-1/2" DEEP, 18-GAUGE, TYPE 304 STAINLESS STEEL, COUNTER MOUNTED SINK WITH 8" CENTERS DRILLING; CHICAGO 786-GN2FC FAUCET, NO. 317 4" WRIST BLADES, GN2 RIGID/SWING CONVERTIBLE GOOSE NECK WITH 1.6 GPM FC LAMINAR FLOW CONTROL AND PLAIN END SPOUT RING; FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; JUST J-35 STAINLESS STEEL CUP STRAINER AND CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.                                                                                                                                                                                                                                                                |  |  |
| S-3                       | BREAK ROOM SINK         | 1/2        | 1/2        | 2         | 1 1/2     | COUNTER MOUNTED, SINGLE COMPARTMENT         | SINK: JUST SL-2017-A-GR 14" X 14" X 7-1/2" DEEP, 18-GAUGE, TYPE 304 STAINLESS STEEL, COUNTER MOUNTED SINK WITH 8" CENTERS DRILLING; CHICAGO 786-GN2FC FAUCET, NO. 317 4" WRIST BLADES, GN2 RIGID/SWING CONVERTIBLE GOOSE NECK WITH 1.6 GPM FC LAMINAR FLOW CONTROL AND PLAIN END SPOUT RING; FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; JUST J-35 STAINLESS STEEL CUP STRAINER AND CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.                                                                                                                                                                                                                                                                |  |  |
| S-4                       | PROCESSING SINK         | 1/2        | 1/2        | 2         | 1 1/2     | COUNTER MOUNTED, SINGLE COMPARTMENT         | SINK: JUST SL-2017-A-GR 14" X 14" X 7-1/2" DEEP, 18-GAUGE, TYPE 304 STAINLESS STEEL, COUNTER MOUNTED SINK WITH 8" CENTERS DRILLING; CHICAGO 786-GN2FC FAUCET, NO. 317 4" WRIST BLADES, GN2 RIGID/SWING CONVERTIBLE GOOSE NECK WITH 1.6 GPM FC LAMINAR FLOW CONTROL AND PLAIN END SPOUT RING; FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; JUST J-35 STAINLESS STEEL CUP STRAINER AND CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.                                                                                                                                                                                                                                                                |  |  |
| S-5                       | PROCESSING SINK         | 1/2        | 1/2        | 2         | 1 1/2     | COUNTER MOUNTED, SINGLE COMPARTMENT         | SINK: JUST SL-2017-A-GR 14" X 14" X 7-1/2" DEEP, 18-GAUGE, TYPE 304 STAINLESS STEEL, COUNTER MOUNTED SINK WITH 8" CENTERS DRILLING; CHICAGO 786-GN2FC FAUCET, NO. 317 4" WRIST BLADES, GN2 RIGID/SWING CONVERTIBLE GOOSE NECK WITH 1.6 GPM FC LAMINAR FLOW CONTROL AND PLAIN END SPOUT RING; FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; JUST J-35 STAINLESS STEEL CUP STRAINER AND CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.                                                                                                                                                                                                                                                                |  |  |
| S-6                       | TESTING SINK            | 1/2        | 1/2        | 2         | 1 1/2     | COUNTER MOUNTED, SINGLE COMPARTMENT         | SINK: JUST SL-2125-A-GR, 16" X 22" X 8" DEEP, 18-GAUGE, TYPE 304 STAINLESS STEEL, COUNTER MOUNTED SINK WITH 8" CENTERS DRILLING; CHICAGO 786-GN2FC FAUCET, NO. 317 4" WRIST BLADES, GN2 RIGID/SWING CONVERTIBLE GOOSE NECK WITH 1.6 GPM FC LAMINAR FLOW CONTROL AND PLAIN END SPOUT RING; FLEXIBLE STAINLESS STEEL SUPPLIES WITH LOOSE KEY ANGLE STOPS; JUST J-35 STAINLESS STEEL CUP STRAINER AND CAST BRASS P-TRAP WITH CLEAN-OUT PLUG.                                                                                                                                                                                                                                                                   |  |  |
| SH-1                      | SHOWER                  | 1/2        | 1/2        | 2         | 1 1/2     | ADA, HAND SHOWER                            | SHOWER: SYMMONS BP-56-500-830L-V TEMPTROL II SHOWER SYSTEM WITH PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, ADJUSTABLE STOP SCREW, INTEGRAL SERVICE STOPS, 2.5 GPM CLEAR-FLO SHOWER HEAD WITH ARM AND FLANGE, LEVER DIVERTER WITH INTEGRAL VOLUME CONTROL, 1.5 GPM WALL/HAND SHOWER WITH 5' FLEXIBLE METAL HOSE, IN-LINE BREAKER, WALL CONNECTION AND FLANGE AND 30" SLIDE BAR FOR HAND SHOWER MOUNTING; SMITH FIGURE 2005Y FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE.                                                                                                                                                |  |  |
| SH-2                      | SHOWER                  | 1/2        | 1/2        | 2         | 1 1/2     | --                                          | SHOWER: SYMMONS BP-56-1 TEMPTROL II SHOWER SYSTEM WITH RESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, ADJUSTABLE STOP SCREW, INTEGRAL SERVICE STOPS AND 1.5 GPM CLEAR-FLO SHOWER HEAD WITH ARM AND FLANGE; SMITH FIGURE 2005Y FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE.                                                                                                                                                                                                                                                                                                                                                  |  |  |
| SH-3                      | SHOWER                  | 1/2        | 1/2        | 2         | 1 1/2     | SECURITY                                    | SHOWER: ACORN PENAL-WARE 1741FA-03-M-RD, PENAL-PAK, WALL SHOWER WITH FRONT ACCESS, 14 GAUGE 304 STAINLESS STEEL, 2.5 GPM VANDAL RESISTANT SHOWER HEAD, PNEUMATICALLY OPERATED PUSH BUTTON AIR-CONTROL VALVE, SINGLE TEMPERATURE, METERING, NON-HOLD OPEN TYPE, RECESSED SOAP DISH; SMITH FIGURE 2005Y FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE.                                                                                                                                                                                                                                                                             |  |  |
| SOI-1                     | SAND/OIL INTERCEPTOR    | --         | --         | 3         | 3         | FLOOR MOUNTED                               | SAND/OIL INTERCEPTOR: SMITH 8525 STEEL INTERCEPTOR WITH GRAY DUOCO COATING INSIDE AND OUTSIDE, TRAFFIC RATED COVER, FLOW CONTROL FITTING, NO-HUB ADAPTOR AND 25 GPM MAXIMUM FLOW RATE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
| SS-1                      | SERVICE SINK            | 3/4        | 3/4        | 3         | 2         | --                                          | JANITOR SINK (FLOOR MOUNTED, CORNER): KOHLER K8710, WHITBY, 28 X 28-INCH, ENAMELED CAST IRON FLOOR-MOUNTED CORNER MODEL, K9146-3" DRAIN WITH STRAINER, NO. K8940 REMOVABLE VINYL-COATED RIM GUARD; CHICAGO 897 FAUCET WITH VACUUM BREAKER, SCREWDRIVER STOPS IN SHANKS, 5 FOOT RUBBER HOSE AND WALL HOOK, 853.                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| TD-1                      | TRENCH DRAIN            | --         | --         | 4         | 2         | --                                          | TRENCH DRAIN: J.R. SMITH 9930 ENVIRO-FLO II POLYPROPYLENE TRENCH DRAIN SYSTEM WITH BUILT-IN SLOPE, RADIUSD BOTTOM, 4" HORIZONTAL OUTLET AND 9870-405-GM-13/16" X 1/2" LONGITUDINAL GALVANIZED STEEL SLOT BAR GRATE; COORDINATE LENGTH WITH FLOOR PLANS.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| U-1                       | URINAL                  | 3/4        | --         | 2         | 2         | WALL HUNG, 1/8 GPF, ADA                     | URINAL: ZURN Z5796 VITREOUS CHINA ADA URINAL WITH 3/4" TOP SPUD, EXPOSED 0.125 GPF BATTERY POWERED SENSOR FLUSH VALVE; SMITH 0637 URINAL SUPPORT. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
| WB-1                      | REFRIGERATOR BOX        | 1/2        | --         | --        | --        | ALL REFRIGERATOR LOCATIONS                  | RECESSED REFRIGERATOR WATER CONNECTION VALVE BOX: MANUFACTURED BY GUY GRAY BIM 875 OR EQUAL. 1/2" NPT INLET, 1/4" OUTLET WITH SHUTOFF VALVE. RECESSED BOX TO BE 18 GAUGE STEEL WITH CORROSION RESISTANT EPOXY FINISH.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |
| WC-1                      | WATER CLOSET            | 1          | --         | 4         | 2         | FLOOR MOUNTED, MANUAL DUAL FLUSH VALVE      | WATER CLOSET: KOHLER K-4350 WELCOMME VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL TOILET WITH K-4670-C LUSTRA OPEN FRONT SEAT; SLOAN UPPERCUT WES-111 MANUAL DUAL FLUSH, 1.6 GPF AND 1.1 GPF FLUSH VALVE; INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| WC-2                      | WATER CLOSET            | 1          | --         | 4         | 2         | ADA, FLOOR MOUNTED, MANUAL DUAL FLUSH VALVE | WATER CLOSET: KOHLER K-4368 KINGSTON VITREOUS CHINA, FLOOR MOUNTED, ELONGATED BOWL, ADA TOILET WITH K-4670-C LUSTRA OPEN FRONT SEAT; SLOAN UPPERCUT WES-111 MANUAL DUAL FLUSH, 1.6 GPF AND 1.1 GPF FLUSH VALVE; INSTALL ACTUATOR ON WIDE SIDE OF FIXTURE.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

| GAS WATER HEATER SCHEDULE |                      |                |                  |                   |                  |                    |                |            |       |         |
|---------------------------|----------------------|----------------|------------------|-------------------|------------------|--------------------|----------------|------------|-------|---------|
| SYMBOL                    | MANUF. AND MODEL NO. | CAP. U.S. GAL. | GAS INPUT (BTUH) | GPH @ 100 °F RISE | GPH @ 80 °F RISE | WIDTH/ HEIGHT (IN) | EFFICIENCY (%) | ELECTRICAL |       | REMARKS |
|                           |                      |                |                  |                   |                  |                    |                | AMP        | VIPH  |         |
| WH-1                      | A.O. SMITH 8TH-199   | 100            | 199,000          | 230               | 288              | 27.75/74.50        | 96             | 6.2        | 120/1 | 1       |

1. PROVIDE A 120 VOLT 20 AMP CIRCUIT TO THE WATER HEATER. BY ELECTRICAL.

| DOMESTIC EXPANSION TANK SCHEDULE |                       |               |          |                   |                         |                    |                  |                   |         |
|----------------------------------|-----------------------|---------------|----------|-------------------|-------------------------|--------------------|------------------|-------------------|---------|
| SYMBOL                           | MANUFACTOR MODEL NO.  | SYSTEM SERVED | TYPE     | TANK VOLUME (GAL) | ACCEPTANCE VOLUME (GAL) | RELIEF VALVE (PSI) | DIA/ HEIGHT (IN) | NPTM FITTING (IN) | REMARKS |
| DET-1                            | BELL & GOSSETT PTA-12 | WH-1          | DIAPHRAM | 6.4               | 3.2                     | 112.5              | 12/15.625        | 3/4               |         |
| DET-2                            | BELL & GOSSETT PTA-5  | WH-2          | DIAPHRAM | 2.1               | 0.9                     | 112.5              | 10/10.5          | 3/4               |         |

| DOMESTIC PUMP SCHEDULE |                      |                 |           |               |           |           |     |      |         |
|------------------------|----------------------|-----------------|-----------|---------------|-----------|-----------|-----|------|---------|
| SYMBOL                 | MANUF. AND MODEL NO. | PUMP            |           |               | MOTOR     |           |     |      |         |
|                        |                      | FLOW RATE (GPM) | HEAD (FT) | WORKING FLUID | PUMP TYPE | F.L. AMPS | HP  | RPM  | VOLT/PH |
| RCP-1                  | B&G SERIES PR        | 6.1             | 11.8      | WATER         | INLINE    | 1.9       | 1/6 | 1725 | 115     |

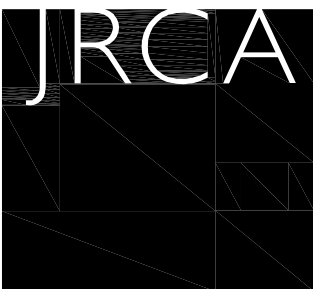
1. TO INCLUDE AGS-3/4 AQUASTAT KIT.

| GAS WATER HEATER SCHEDULE - ANCILLARY |                      |                |                  |                  |                    |                |         |
|---------------------------------------|----------------------|----------------|------------------|------------------|--------------------|----------------|---------|
| SYMBOL                                | MANUF. AND MODEL NO. | CAP. U.S. GAL. | GAS INPUT (BTUH) | GPH @ 90 °F RISE | WIDTH/ HEIGHT (IN) | EFFICIENCY (%) | REMARKS |
|                                       |                      |                |                  |                  |                    |                |         |
| WH-2                                  | A.O. SMITH GCV-40    | 40             | 40,000           | 41               | 18/58.25           | 80             |         |

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DATE/REVISION  
04-04-2013

PROJECT #  
10002



PLUMBING  
SCHEDULES

PE601



| EQUIPMENT SCHEDULE |                           |           |      |       |                |              |          |     |      |            |      |         |    |  |  |
|--------------------|---------------------------|-----------|------|-------|----------------|--------------|----------|-----|------|------------|------|---------|----|--|--|
| UNIT #             | FUNCTION                  | LOAD      | VOLT | PHASE | FULL LOAD AMPS | CONDUIT SIZE | WIRES    |     | OCPD | REF. NOTES |      | REMARKS |    |  |  |
|                    |                           |           |      |       |                |              | NO. SETS | NO. |      | TYPE       | AMPS |         |    |  |  |
| B-1                | BOILER                    | 14 FLA    | 208  | 1     | 14.00          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| BB-1               | BRANCH BOX                | 25 FLA    | 208  | 1     | 0.05           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 1A |  |  |
| DFC-1              | DUCTLESS FAN COIL         | 1 MCA     | 208  | 1     | 0.80           | 3/4"         | 1        | 2   | 12   | 12         | CB   | N/A     | 4A |  |  |
| DFC-2              | DUCTLESS FAN COIL         | 1 MCA     | 208  | 1     | 0.80           | 3/4"         | 1        | 2   | 12   | 12         | CB   | N/A     | 4A |  |  |
| DFC-3              | DUCTLESS FAN COIL         | 1 MCA     | 208  | 1     | 0.80           | 3/4"         | 1        | 2   | 12   | 12         | CB   | N/A     | 4A |  |  |
| DFC-4              | DUCTLESS FAN COIL         | 1 MCA     | 208  | 1     | 0.80           | 3/4"         | 1        | 2   | 12   | 12         | CB   | N/A     | 4A |  |  |
| DHP-1              | DUCTLESS HEAT PUMP        | 17 MCA    | 208  | 1     | 13.60          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 25      | 7A |  |  |
| DHP-3              | DUCTLESS HEAT PUMP        | 17 MCA    | 208  | 1     | 13.60          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 25      | 7A |  |  |
| DHP-4              | DUCTLESS HEAT PUMP        | 17 MCA    | 208  | 1     | 13.60          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 25      | 7A |  |  |
| EF-1               | EXHAUST FAN               | 186.5 VA  | 120  | 1     | 1.55           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| EF-2               | EXHAUST FAN               | 186.5 VA  | 120  | 1     | 1.55           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| EF-3               | EXHAUST FAN               | 121 VA    | 120  | 1     | 1.01           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| EF-4               | EXHAUST FAN               | 186.5 VA  | 120  | 1     | 1.55           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| EF-5               | EXHAUST FAN               | 186.5 VA  | 120  | 1     | 1.56           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| EF-6               | EXHAUST FAN               | 121 VA    | 120  | 1     | 1.01           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| EF-7               | EXHAUST FAN               | 150 VA    | 120  | 1     | 1.25           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| EF-8               | EXHAUST FAN               | 150 VA    | 120  | 1     | 1.25           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| EF-9               | EXHAUST FAN               | 150 VA    | 120  | 1     | 1.25           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| FC-1               | FAN COIL                  | 2.88 MCA  | 208  | 3     | 2.30           | 3/4"         | 1        | 3   | 12   | 12         | CB   | 15      | 1A |  |  |
| FC-2               | FAN COIL                  | 3.63 MCA  | 208  | 3     | 2.90           | 3/4"         | 1        | 3   | 12   | 12         | CB   | 15      | 1A |  |  |
| FC-3               | FAN COIL                  | 3.63 MCA  | 208  | 3     | 2.90           | 3/4"         | 1        | 3   | 12   | 12         | CB   | 15      | 1A |  |  |
| FC-4               | FAN COIL                  | 3.63 MCA  | 208  | 3     | 2.90           | 3/4"         | 1        | 3   | 12   | 12         | CB   | 15      | 1A |  |  |
| FC-5               | FAN COIL                  | 3.63 MCA  | 208  | 3     | 2.90           | 3/4"         | 1        | 3   | 12   | 12         | CB   | 15      | 1A |  |  |
| GLP-1              | GLP-1                     | 7.5 HP    | 208  | 3     | 24.20          | 3/4"         | 1        | 3   | 8    | 10         | CB   | 50      | 8C |  |  |
| GLP-2              | PUMP                      | 7.5 HP    | 208  | 3     | 24.20          | 3/4"         | 1        | 3   | 8    | 10         | CB   | 50      | 8C |  |  |
| HPH-48             | WATER TO AIR HEAT PUMP    | 21.48 MCA | 208  | 1     | 17.18          | 3/4"         | 1        | 2   | 10   | 10         | CB   | 30      | 7A |  |  |
| HPH-30             | WATER TO AIR HEAT PUMP    | 20.83 MCA | 208  | 1     | 16.68          | 3/4"         | 1        | 2   | 10   | 10         | CB   | 25      | 7A |  |  |
| HPH-12             | WATER TO AIR HEAT PUMP    | 18.8 MCA  | 208  | 1     | 6.88           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HPH-26             | WATER TO AIR HEAT PUMP    | 15.25 MCA | 208  | 1     | 12.20          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HPH-19             | WATER TO AIR HEAT PUMP    | 5.23 MCA  | 208  | 1     | 4.18           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HPH-13             | WATER TO AIR HEAT PUMP    | 5.23 MCA  | 208  | 1     | 4.18           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HPH-580            | WATER TO AIR HEAT PUMP    | 20.83 MCA | 208  | 1     | 16.68          | 3/4"         | 1        | 2   | 10   | 10         | CB   | 25      | 7A |  |  |
| HPH-38             | WATER TO AIR HEAT PUMP    | 15.25 MCA | 208  | 1     | 12.20          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HPH-30             | WATER TO AIR HEAT PUMP    | 15.25 MCA | 208  | 1     | 12.20          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HPH-24             | WATER TO AIR HEAT PUMP    | 15.25 MCA | 208  | 1     | 12.20          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HPH-24             | WATER TO AIR HEAT PUMP    | 15.25 MCA | 208  | 1     | 12.20          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HPH-24             | WATER TO AIR HEAT PUMP    | 15.25 MCA | 208  | 1     | 12.20          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HPH-42             | WATER TO AIR HEAT PUMP    | 20.9 MCA  | 208  | 1     | 16.72          | 3/4"         | 1        | 2   | 10   | 10         | CB   | 30      | 7A |  |  |
| HPH-12             | WATER TO AIR HEAT PUMP    | 5.8 MCA   | 208  | 1     | 6.88           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HPH-30             | WATER TO AIR HEAT PUMP    | 20.83 MCA | 208  | 1     | 16.68          | 3/4"         | 1        | 2   | 10   | 10         | CB   | 25      | 7A |  |  |
| HPH-18             | WATER TO AIR HEAT PUMP    | 13.5 MCA  | 208  | 1     | 10.80          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 7A |  |  |
| HW-1               | PUMP                      | 3 HP      | 208  | 3     | 10.80          | 3/4"         | 1        | 3   | 12   | 12         | CB   | 20      | 7A |  |  |
| HW-1               | PUMP                      | 3 HP      | 208  | 3     | 11.1           | 3/4"         | 1        | 3   | 12   | 12         | CB   | 20      | 7A |  |  |
| PTAC-7             | AIR CONDITIONER HEAT PUMP | 11.6 MCA  | 208  | 1     | 9.28           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 4A |  |  |
| RCP-1              | DOMESTIC PUMP             | 125 VA    | 120  | 1     | 1.04           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| SMP-1              | SNOWMELT PUMP             | 15 HP     | 120  | 1     | 7.20           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 4A |  |  |
| SMP-2              | SNOWMELT PUMP             | 15 HP     | 120  | 1     | 7.20           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 4A |  |  |
| SMP-3              | SNOWMELT PUMP             | 15 HP     | 120  | 1     | 7.20           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 4A |  |  |
| UH-1               | HOT WATER UNIT HEATER     | 2.8 MCA   | 120  | 1     | 2.24           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| UH-2               | HOT WATER UNIT HEATER     | 1 MCA     | 120  | 1     | 0.80           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| UH-3               | GAS UNIT HEATER           | 21.56 VA  | 120  | 1     | 0.18           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| UH-4               | GAS UNIT HEATER           | 50 VA     | 120  | 1     | 0.42           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| UH-5               | GAS UNIT HEATER           | 21.56 VA  | 120  | 1     | 0.18           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 15      | 4A |  |  |
| WH-120             | WATER TO AIR HEAT PUMP    | 46.7 MCA  | 208  | 3     | 37.36          | 3/4"         | 1        | 3   | 8    | 10         | CB   | 60      | 7A |  |  |
| WH-1               | WATER HEATER              | 6.2 FLA   | 120  | 1     | 6.20           | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 2A |  |  |
| WH-2               | GAS WATER HEATER          | 1500 VA   | 120  | 1     | 12.80          | 3/4"         | 1        | 2   | 12   | 12         | CB   | 20      | 2A |  |  |

- NOTES:  
1. NON-FUSED DISCONNECT SWITCH  
2. FUSED DISCONNECT SWITCH  
3. BREAKER IN ENCLOSURE  
4. MANUAL STARTER WITH THERMAL OVERLOAD  
5. MAGNETIC STARTER  
6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION  
7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION  
8. MAGNETIC STARTER/BREAKER COMBINATION  
9. VARIABLE FREQUENCY DRIVE  
10. REDUCED VOLTAGE STARTER  
11. DIRECT CONNECTION  
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.  
13. TWO-POLE STARTER. COORDINATE WITH/NOT TYPE  
14. SOLID STATE SOFT STARTER
- A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 16  
B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 16  
C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 16  
D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION  
CB = CIRCUIT BREAKER - THERMAL MAGNETIC  
CKW = CHILLER KILOWATTS
- NOTE 1: PER 280-122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR.

## GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 23 (15) WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
- SEE SECTION 265100 (16510) OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

| 20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING |                        |              |              |
|------------------------------------------------|------------------------|--------------|--------------|
| CONDUCTOR LENGTH (FT)                          | BRANCH CIRCUIT VOLTAGE |              |              |
|                                                | 120 VOLT               | 277 VOLT     |              |
| <70                                            | MIN. #12 AWG           | MIN. #12 AWG |              |
|                                                | 70 - 115               | MIN. #10 AWG | MIN. #12 AWG |
| 115 - 170                                      | MIN. #8 AWG            | MIN. #10 AWG |              |
|                                                | 170 - 270              | MIN. #6 AWG  | MIN. #8 AWG  |
| 271 - 380                                      | NOTE B                 | NOTE B       |              |
|                                                | >380                   | NOTE B       | NOTE B       |

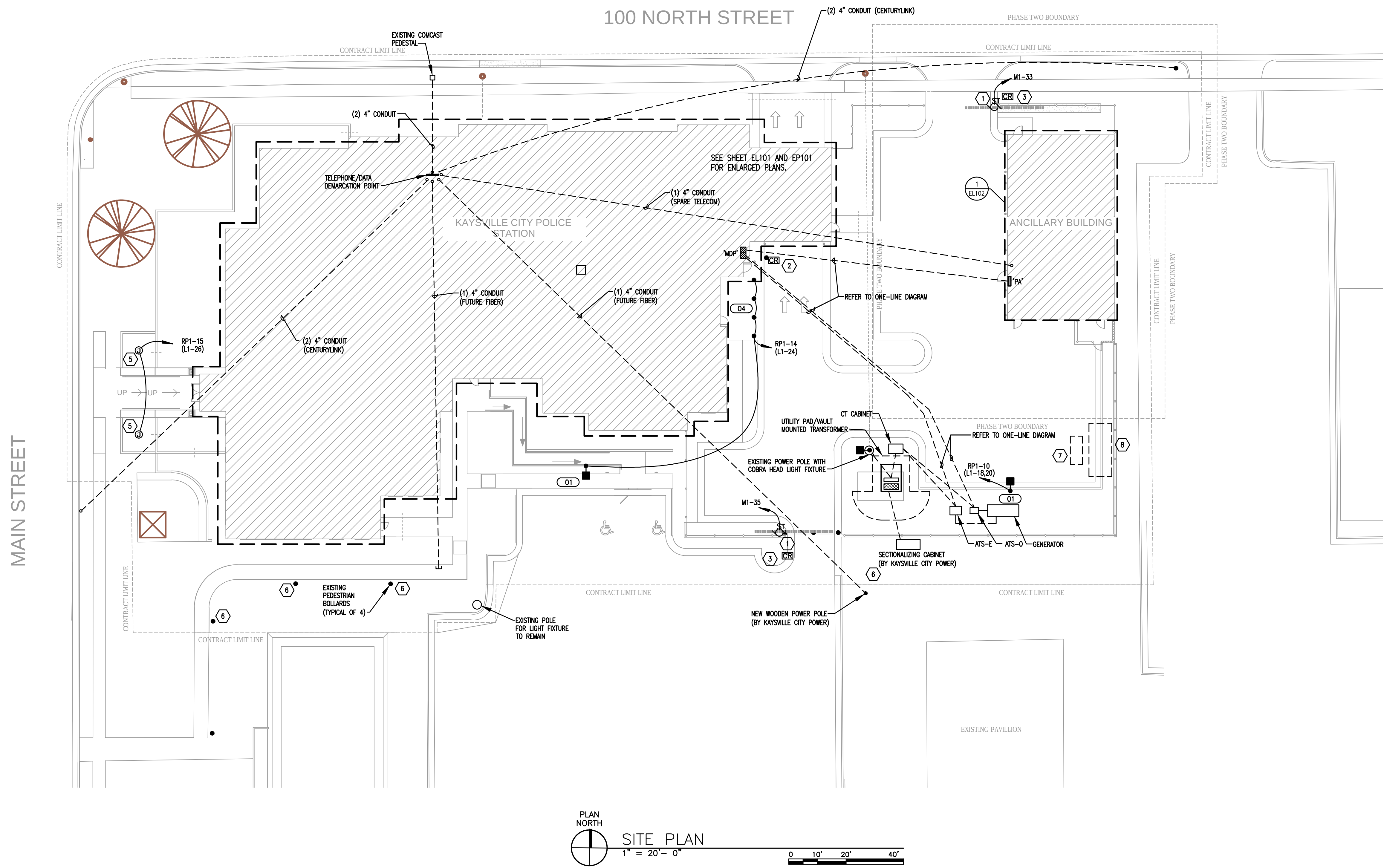
- A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

| FIXTURE SCHEDULE |                                                                                                                                                             |                                                  |       |                          |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------|--------------------------|
| TYPE             | DESCRIPTION                                                                                                                                                 | CATALOG NUMBER                                   | VOLTS | LAMPS                    |
| D6               | 6" COMPACT FLUORESCENT WET LOCATION DOWNLIGHT WHITE TRIM RECESSED WHITE TRIM                                                                                | GOTHAM LGF-142TRT-6RW-GLR                        | 120   | (1) 42W TRT 835K         |
| D6D              | 6" LED DOWNLIGHT, LED, DIMMING                                                                                                                              | GOTHAM LDC-30-32-RW-60-120                       | 120   | LED, 3000 LUMENS 3500K   |
| D6W              | 6" COMPACT FLUORESCENT WET LOCATION DOWNLIGHT WHITE OPAL LENS RECESSED WHITE TRIM                                                                           | GOTHAM LGF-142TRT-6RW-FOL-GLR                    | 120   | (1) 42W TRT 835K         |
| LA3G             | RECESSED 2X4 GRID MOUNT, SATIN LENS, WHITE ALUMINUM DOOR                                                                                                    | PINNACLE: LUG24A-3547-GX-UNV-10-W                | 120   | LED, 3575 LUMENS 3500K   |
| LA3GB            | RECESSED 2X4 GRID MOUNT, A12, 125 REGRESSED LENS, WHITE ALUMINUM DOOR                                                                                       | LITHONIA: 25P-G-32-RW-A12125-GLR                 | 120   | (2) F28T8/835            |
| LA3FB            | RECESSED 2X4 GRID MOUNT, SATIN LENS, WHITE ALUMINUM DOOR                                                                                                    | PINNACLE: LUG24A-3547-FL-UNV-10-W                | 120   | LED, 4548 LUMENS 3500K   |
| LA3G             | RECESSED 2X4 GRID MOUNT, SATIN LENS, WHITE ALUMINUM DOOR                                                                                                    | PINNACLE: LUG24A-3547-GX-UNV-10-W                | 120   | LED, 4548 LUMENS 3500K   |
| LA3GB            | RECESSED 2X4 GRID MOUNT, A12, 125 REGRESSED LENS, WHITE ALUMINUM DOOR                                                                                       | LITHONIA: 25P-G-32-RW-A12125-GLR                 | 120   | (3) F28T8/835            |
| LA4G             | RECESSED 2X4 GRID MOUNT, SATIN LENS, WHITE ALUMINUM DOOR                                                                                                    | PINNACLE: LUG24A-3575-GX-UNV-10-W                | 120   | LED, 7108 LUMENS 3500K   |
| LC2F             | FLANGE MOUNTED, 2X4 FLUORESCENT SATIN LENS, WHITE ALUMINUM DOOR                                                                                             | PINNACLE: LUG24A-3542-FL-UNV-10-W                | 120   | LED, 3861 LUMENS 3500K   |
| D1               | SINGLE HEAD PARKING FIXTURE, TYPE II DISTRIBUTION DIE CAST ALUMINUM, CLEAR TEMPERED FLAT GLASS LENS SINGLE CAM LATCH, ROTATABLE OPTICS, 2X ROUND STEEL POLE | MCGRAW EDISON: GLEEN-AA-03-LED-E1-SMO-SCBA       | 208   | LED, 12,867 LUMENS 4100K |
| D3               | FLOOD LIGHT METAL HALIDE, WIDE FLOOD CONTRACTOR TO PROVIDE 18" DEEP CONCRETE BASE                                                                           | HYDREL: TP93-38LED-WHT-K10V-L7-WPL-YM-ARTL       | 208   | LED, 4200 LUMENS 4100K   |
| D4               | ROUND BOLLARD LED                                                                                                                                           | VISIONAIRE: DWK-2-3P-COG-3-UNV-AB-SCBA           | 208   | LED 4000K                |
| OW1              | MAN DOOR LIGHT COMPACT FLUORESCENT, COLD START BALLAST                                                                                                      | MCGRAW EDISON: ZDW-42-OF-208-25-SCBA             | 208   | (1) 42W TRT 841K         |
| OW2              | SALLYPORT FLOOD LIGHT PROVIDE ARC KEEPER MODULE (BOONIE AK179PLS)                                                                                           | MCGRAW EDISON: CWS-175-AH-208-25-SCBA            | 208   | (1) 175W PSMH 841K       |
| OW3              | WALL PACK FLOOD LIGHT COLD START BALLAST                                                                                                                    | MCGRAW EDISON: CWS-42-OF-208(COLD START)-25-SCBA | 208   | (2) 38W TRT 841K         |
| OW4              | DECORATIVE SCENCE COLD START BALLAST                                                                                                                        | INTERLUX: A28100-46-COLD START                   | 208   | (1) 42W TRT 841K         |
| P24              | 30" ROUND PENDANT, LED BRUSHED NICKEL                                                                                                                       | DALS LIGHTING: PD040-3P-LED-120-CBD-A10          | 120   | LED, 6500 LUMENS 3500K   |
| P4A              | LINEAR PENDANT, CONFERENCE ROOM                                                                                                                             | CORELITE: DSI-HS-2L35-1-UNV-A-C-7BD-8-SCBA       | 120   | LED, 4622 LUMENS 3500K   |
| PL16D            | DIMMABLE, SUSPENDED LINEAR FLUORESCENT 16 FT                                                                                                                | PINNACLE: LCGA75-SH0-16-DAC-UNV-10-W             | 120   | LED, 935 LUMENS/FT       |
| PL24D            | DIMMABLE, SUSPENDED LINEAR FLUORESCENT 24 FT                                                                                                                | PINNACLE: LCGA75-SH0-24-DAC-UNV-10-W             | 120   | LED, 935 LUMENS/FT       |
| PL30D            | DIMMABLE, SUSPENDED LINEAR FLUORESCENT 30 FT                                                                                                                | PINNACLE: LCGA75-SH0-30-DAC-UNV-10-W             | 120   | LED, 935 LUMENS/FT       |
| PL6D             | DIMMABLE, SUSPENDED LINEAR FLUORESCENT 6 FT                                                                                                                 | PINNACLE: LCGA75-SH0-6-DAC-UNV-10-W              | 120   | LED, 935 LUMENS/FT       |
| S232             | 134 CHAIN MOUNTED INDUSTRIAL FLUORESCENT                                                                                                                    | LITHONIA: EISA-26-120-GLR                        | 120   | (2) F28T8/835            |
| S232B            | CONTINUOUS STAGGERED STRIP, SATIN LENS                                                                                                                      | PINNACLE: ESA-115-3XFL-FL-UNV-10-W               | 120   | (1) 28W T5 835K          |
| S432             | 4LAMP HIGHBAY                                                                                                                                               | LITHONIA: IB-454-WD-AWML-212-GE10RS              | 120   | (4) 54W T5 835K          |
| ST               | 4 FLUORESCENT STRIPLIGHT WITH WIRE GUARD                                                                                                                    | METALLUX: 42B-UNV-ER6-WG-SSF                     | 120   | (2) F28T9/835            |
| W                | 2 LAMP SURFACE MOUNTED SPECIFICATION GRADE WRAP WITH ACRYLIC LENS                                                                                           | METALLUX: WS-228A-120-GL-E8B1                    | 120   | (2) F28T8/835            |
| XL               | EDGE LIT EXIT SIGN DOUBLE FACE, GREEN/RED LETTERS WITH WHITE FINISH SEE PLANS FOR ARROWS AND MOUNTING                                                       | EVENITE: SSW-AC-GR-1C-SCHE-UNV-GALDA             | 120   | LED INCLUDED             |
| XW               | EDGE LIT EXIT SIGN                                                                                                                                          | LIGHTOWER: LG-A1-GW-A-802                        | 120   | LED INCLUDED             |



SHEET KEYNOTES

- 1) MOTORIZED GATE
- 2) CARD READER FOR CONTROL OF MOTORIZED DOOR. SEE SHEET EY101 FOR MORE INFORMATION.
- 3) CARD READER FOR CONTROL OF MOTORIZED GATE. EXIT CONTROL WILL BE PROVIDED WITH INDUCTION LOOP. SEE SPECIFICATIONS FOR GATE CONTROLS DETAILS.
- 4) NOT USED.
- 5) PROVIDE POWER FOR FLAG POLE LIGHTING. COORDINATE FINAL LOCATION WITH ARCHITECT.
- 6) EXISTING LIGHT BOLLARDS TO BE REPLACED WITH NEW OWNER FURNISHED POLE LIGHTING. CONTRACTOR TO PROVIDE ALL DEMOLITION OF EXISTING BOLLARDS AND INSTALLATION OF NEW LIGHT POLES. BOLLARDS TO BE RETURNED TO OWNER.
- 7) EXISTING GENERATOR TO BE REMOVED.
- 8) EXISTING BATHROOM TO BE REMOVED. MAINTAIN ELECTRICAL METER THAT FEEDS THE EXISTING RECREATION CENTER AND THE EXISTING POLICE STATION.

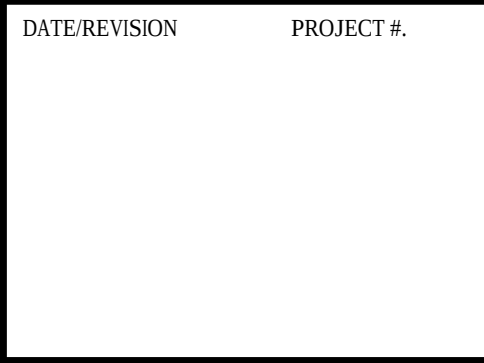


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SITE PLAN

ES101

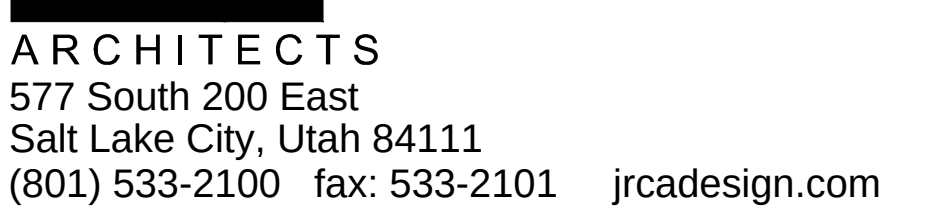


1. CIRCUIT ALL EXIT SIGNAGE TO CIRCUIT E1-3.

- 1 DO NOT SWITCH SHOWER LIGHTING WITH OCCUPANCY SENSOR.
- 2 PROVIDE INTEGRAL BATTERY PACK WITH THESE FIXTURES. PROVIDE UNSWITCHED HOT.
- 3 MOUNT STRIP FIXTURE ABOVE CEILING TO BACKLIGHT STAINED GLASS.



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EL101



- 1 PROVIDE POWER AND DATA LOCATION FOR IRRIGATION CONTROLLER.
- 2 PROVIDE 1" CONDUIT AND (1) CAT6 CABLE FROM ALL CAMERA LOCATIONS BACK TO PATCH PANEL IN DATA/TELEPHONE 117. ALL CAMERAS ARE PROVIDED BY OWNER.





SHEET GENERAL NOTES

1. ALL TELEPHONE/DATA AND TV CABLEING TO RUN BACK TO DATA/TELEPHONE 117.

SHEET KEYNOTES

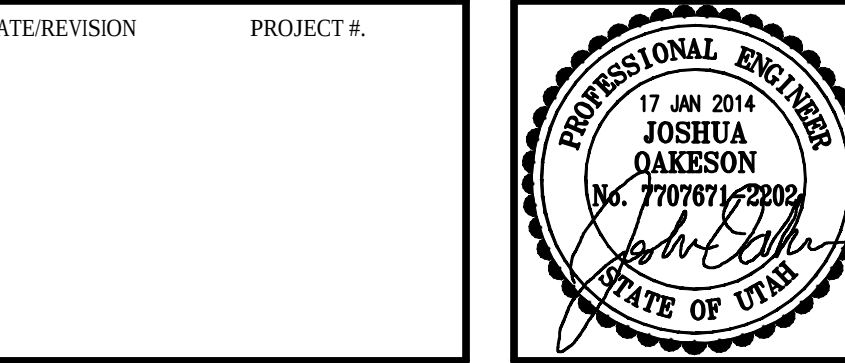
- (1) PROVIDE A DEDICATED CIRCUIT FOR MOTORIZED DOORS.  
(2) PROVIDE A JUNCTION BOX WITH DEDICATED CIRCUIT THAT WILL BE USED FOR THE OVERHEAD DOORS.  
(3) PROVIDE 2" CONDUIT FROM JUNCTION BOX TO ACCESSIBLE CEILING.  
(4) PROVIDE POWER FOR REFRIGERATED EVIDENCE LOCKER. COORDINATE EXACT LOCATION WITH OWNER.  
(5) HAND DRYER.  
(6) PROVIDE (24) CAT 6 CABLES IN (1) 2" CONDUIT TO MODULAR FURNITURE FEED BOX.  
(7) FLOOR BOX FEED TO MODULAR FURNITURE. COORDINATE EXACT LOCATION WITH ARCHITECT.  
(8) PROVIDE (12) CAT 6 CABLES IN (1) 2" CONDUIT TO MODULAR FURNITURE FEED BOX.  
(9) RECEPTACLE IS TO BE MOUNTED IN THE ROOF SOFFIT. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.  
(10) PROVIDE (1) 1-1/2" CONDUIT WITH HDMI AND VGA WITH AUDIO FROM FLOOR BOX TO JUNCTION BOX LOCATED IN AV CLOSET. PROVIDE TERMINATION PLATE IN FLOOR BOX FOR HDMI AND VGA WITH AUDIO (WIREMOLD FTBBS OR EQUAL). PROVIDE A TOTAL OF 4 DATA AND 2 PHONE PORTS PER FLOOR BOX WITH (2) DUPLEX RECEPTABLES. COORDINATE FINAL LOCATION OF FLOOR BOX WITH ARCHITECT.  
(11) PROVIDE (1) 1-1/2" CONDUIT FROM IN WALL ACCESSORY BOX TO JUNCTION BOX LOCATED IN AV CLOSET.  
(12) PROVIDE FOUR-PLEX FOR AV RACK POWER. COORDINATE EXACT LOCATION WITH RACK LOCATION PRIOR TO ROUGH-IN.  
(13) PROVIDE CEILING MOUNTED RECEPTACLE, DATA AND COAX CONNECTION. JUNCTION BOX LOCATED ABOVE CEILING WITH 1-1/2" CONDUIT BACK TO EQUIPMENT ROOM LOCATED ADJACENT TO THIS ROOM.  
(14) PROVIDE (2) 1-1/4" CONDUIT FROM FLOORBOX TO ACCESSIBLE FUTURE AV.  
(15) PROVIDE POWER FOR FUTURE CAR CHARGER.  
(16) RECEPTACLE TO BE MOUNTED ON ROOF PARAPET.  
(17) STUB UP LOCATION FOR COMCAST CONDUIT.  
(18) STUB UP LOCATION FOR CENTURY LINK CONDUIT.  
(19) STUB UP LOCATION FOR FUTURE FIBER OPTIC CABLE.  
(20) ON HEAT PUMP UNIT ON ROOF.

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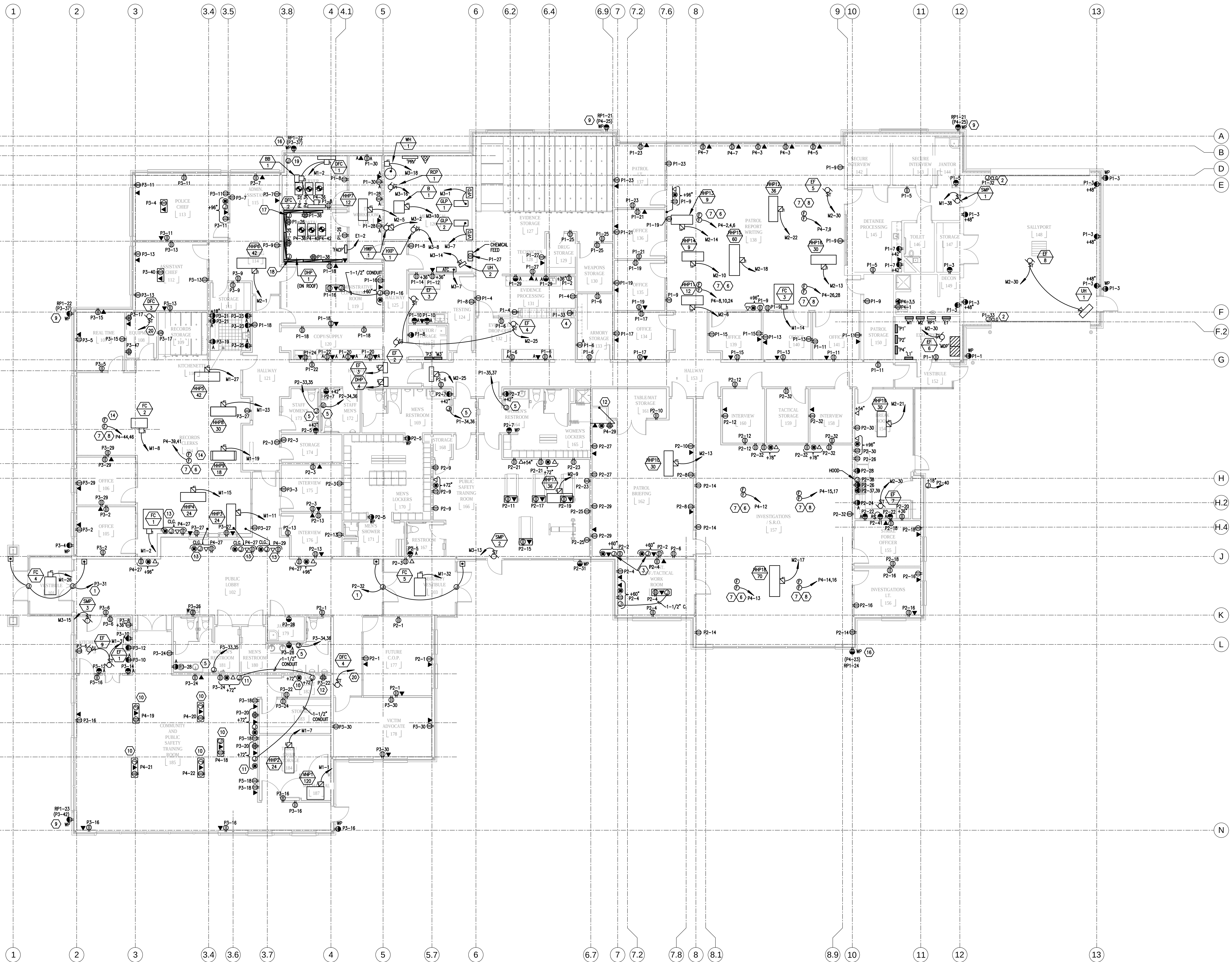


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POWER PLAN

EP101



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



SHEET GENERAL NOTES

SHEET KEYNOTES

- ① PROVIDE HEAT TRACE LOOP DOWN ROOF DRAIN DOWN SPOUTS AND BACK UP.  
② PROVIDE ICE MELT CONTROLLER JUNCTION BOX WITH SENSOR. (ETI GIT-3 OR EQUAL)

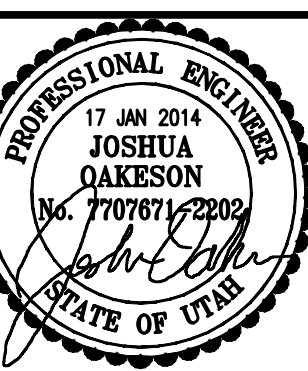
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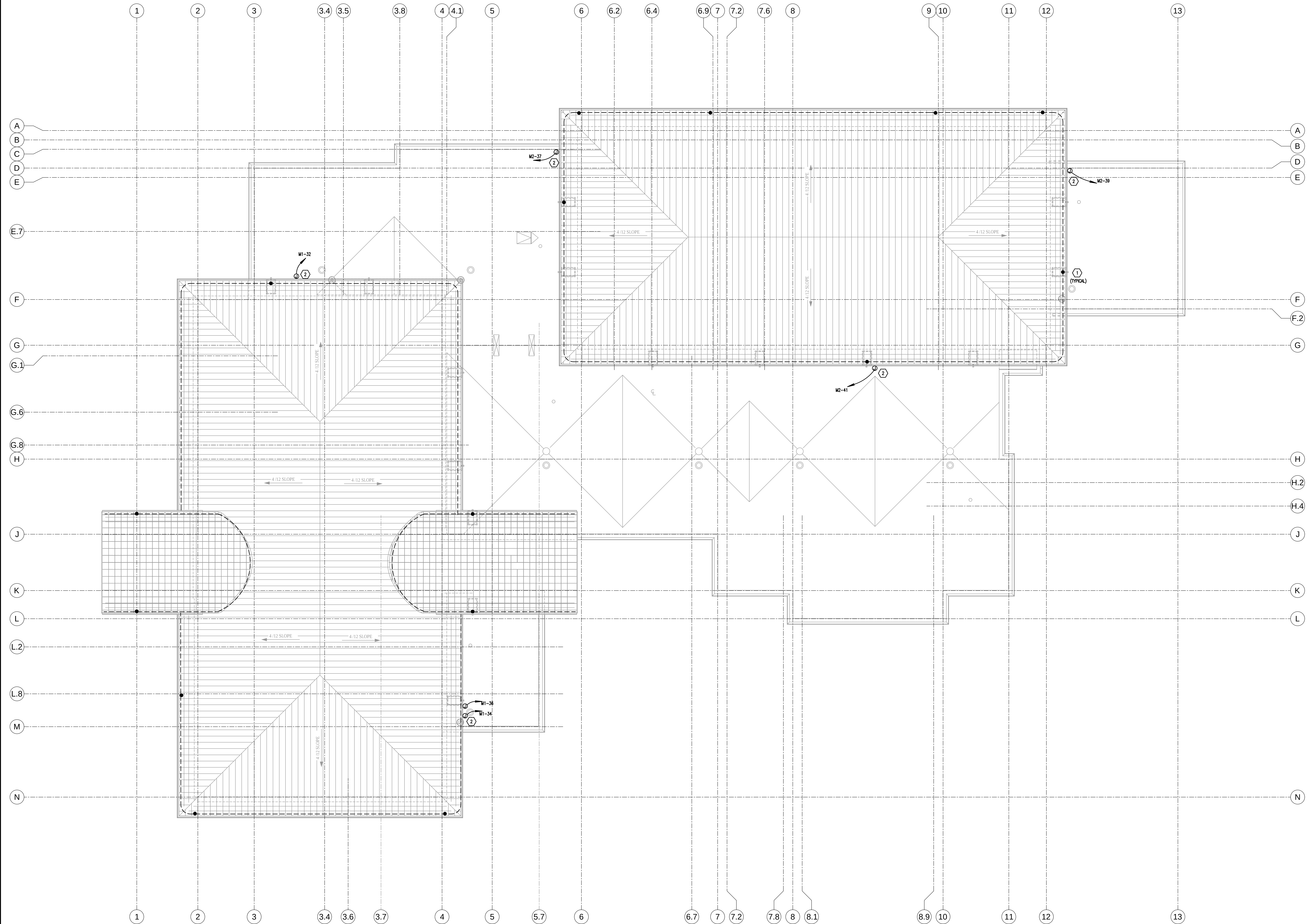
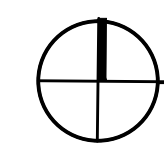
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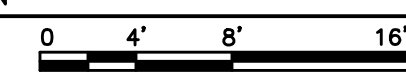
ROOF PLAN

EP102



ROOF POWER PLAN

1/8" = 1' - 0"



LEGEND

- HEAT TRACE CABLE (NELSON #NCB-BW/FT. OR EQUAL)  
● DOWNSPOUT





EY101





1

DO NOT PENETRATE WALL BETWEEN OFFICES.

2

FURNITURE FEED IN FLOOR. SEE SHEET EP101.

3

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GENERAL SHEET NOTES

1. ALL HORIZONTAL CABLING WILL BE RUN TO TELECOM RACKS LOCATED IN DATA/TELEPHONE 117.

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PROFESSIONAL ENGINEER

17 JUN 2014

JOSHUA OAKESON

NO. 770761/2200

STATE OF UTAH

DATE/REVISION

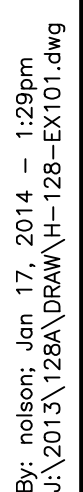
PROJECT #

CABLE TRAY PLAN

EY102

By: jrcad Jan 17, 2014 1:29pm  
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① ONE  
NO SCALE

| ALUMINUM<br>CONDUCTOR & CONDUIT SCHEDULE<br>FOR PARALLEL RUNS |                    |               |      |                    |                 |           |
|---------------------------------------------------------------|--------------------|---------------|------|--------------------|-----------------|-----------|
| TYPE                                                          | MAX. O.C.<br>PROT. | COND.<br>AMPS | SETS | CONDUCTOR<br>QUAN. | CONDUIT<br>SIZE | EQ. COND. |
| 325-2                                                         | 400                | 410           | 2    | 3                  | 250             | 4" 2/0    |
| 425-2                                                         | 400                | 410           | 2    | 5                  | 250             | 4" 2/0    |
| 525-2                                                         | 400                | 410           | 2    | 5 *                | 250             | 4" 2/0    |
| 550-2                                                         | 600                | 620           | 2    | 3                  | 500             | 4" 2/0    |
| 550-2                                                         | 600                | 620           | 2    | 4                  | 500             | 4" 2/0    |
| 550-2                                                         | 600                | 620           | 2    | 5 *                | 500             | 4" 2/0    |
| 775-2                                                         | 800                | 770           | 2    | 3                  | 750             | 4" 3/0    |
| 775-2                                                         | 800                | 770           | 2    | 4                  | 750             | 4" 3/0    |
| 775-2                                                         | 800                | 770           | 2    | 5 *                | 750             | 4" 3/0    |
| 550-3                                                         | 800                | 930           | 3    | 3                  | 500             | 4" 3/0    |
| 775-3                                                         | 1000               | 1150          | 3    | 3                  | 750             | 4" 4/0    |
| 775-3                                                         | 1000               | 1150          | 3    | 4                  | 750             | 4" 4/0    |
| 775-3                                                         | 1000               | 1150          | 3    | 5 *                | 750             | 4" 4/0    |
| 550-4                                                         | 1200               | 1240          | 4    | 3                  | 500             | 4" 250    |
| 550-4                                                         | 1200               | 1240          | 4    | 4                  | 500             | 4" 250    |
| 550-5                                                         | 1600               | 1620          | 6    | 3                  | 400             | 4" 350    |
| 550-6                                                         | 1600               | 1620          | 6    | 4                  | 400             | 4" 350    |
| 650-6                                                         | 2000               | 2040          | 6    | 4                  | 600             | 4" 400    |
| 775-6                                                         | 2000               | 2310          | 6    | 3                  | 750             | 4" 400    |
| 775-6                                                         | 2000               | 2310          | 6    | 4                  | 750             | 4" 400    |
| 775-7                                                         | 2500               | 2695          | 7    | 3                  | 750             | 5" 600    |
| 775-7                                                         | 2500               | 2695          | 7    | 4                  | 750             | 5" 600    |
| 775-8                                                         | 3000               | 3080          | 8    | 3                  | 750             | 5" 800    |
| 775-8                                                         | 3000               | 3080          | 8    | 4                  | 750             | 5" 800    |
| 775-11                                                        | 4000               | 4235          | 11   | 4                  | 750             | 5" 500    |

| COPPER<br>CONDUCTOR & CONDUIT SCHEDULE |      |            |           |      |                 |                    |
|----------------------------------------|------|------------|-----------|------|-----------------|--------------------|
| TYPE                                   | AMP. | COND. SIZE | CONDUCTOR |      | INSUL-<br>ATION | EQ. COND.<br>COND. |
|                                        |      |            | QUAN.     | SIZE |                 |                    |
| 20                                     | 30   | 3/4"       | 2         | 10   | THIN            | 10                 |
| 30                                     | 30   | 3/4"       | 3         | 10   | THIN            | 10                 |
| 40                                     | 30   | 3/4"       | 4         | 10   | THIN            | 10                 |
| 28                                     | 40   | 1"         | 2         | 8    | THIN            | 10                 |
| 38                                     | 40   | 1"         | 3         | 8    | THIN            | 10                 |
| 48                                     | 40   | 1"         | 4         | 8    | THIN            | 10                 |
| 26                                     | 55   | 1"         | 2         | 6    | THIN            | 8                  |
| 36                                     | 55   | 1"         | 3         | 6    | THIN            | 8                  |
| 46                                     | 55   | 1"         | 4         | 6    | THIN            | 8                  |
| 24                                     | 70   | 1"         | 2         | 4    | THIN            | 8                  |
| 34                                     | 70   | 1-1/4"     | 3         | 4    | THIN            | 8                  |
| 44                                     | 70   | 1-1/4"     | 4         | 4    | THIN            | 8                  |
| 23                                     | 85   | 1-1/4"     | 2         | 3    | THIN            | 8                  |
| 33                                     | 85   | 1-1/4"     | 3         | 3    | THIN            | 8                  |
| 43                                     | 85   | 1-1/2"     | 4         | 3    | THIN            | 8                  |
| 32                                     | 95   | 1-1/2"     | 3         | 2    | THIN            | 6                  |
| 42                                     | 95   | 1-1/2"     | 4         | 2    | THIN            | 6                  |

## EX101



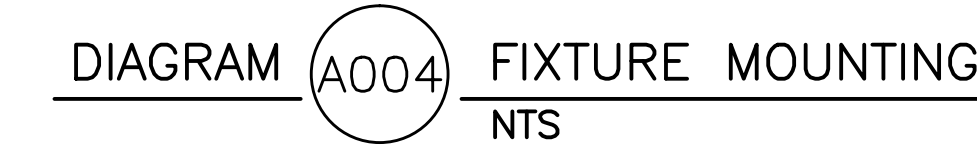
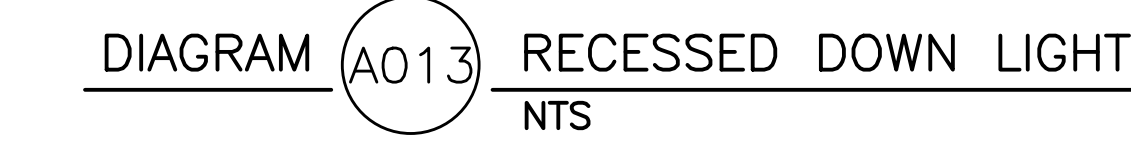
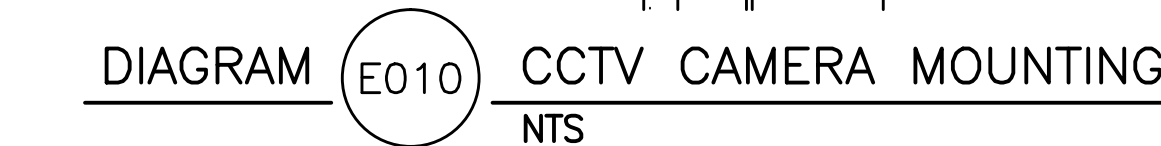
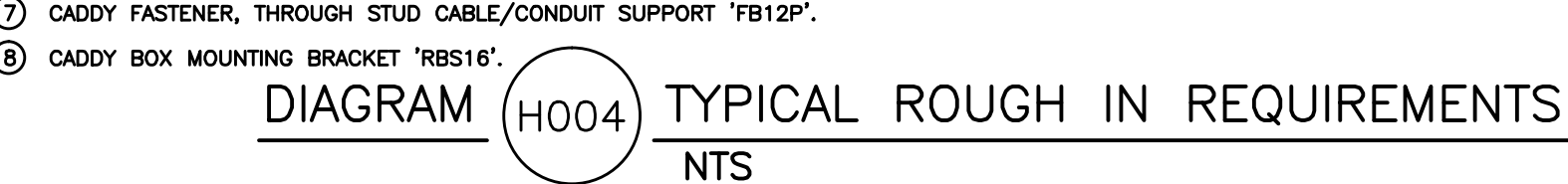
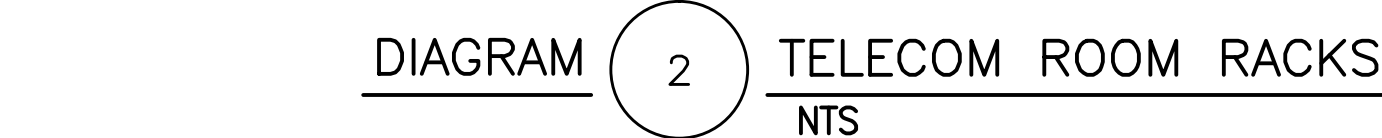
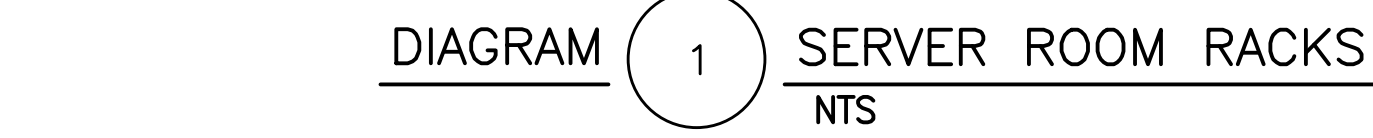
By: nelson, Jan 17, 2014 - 12:00pm  
4:45 PM CST (GMT-7) 145-2521-249

| CT SWITCHBOARD SCHEDULE |  |       |        |            |         |                 |   |           |                  |               |   |         |                      |              |           |              |    |              |            |  |  |
|-------------------------|--|-------|--------|------------|---------|-----------------|---|-----------|------------------|---------------|---|---------|----------------------|--------------|-----------|--------------|----|--------------|------------|--|--|
| PANEL                   |  | CT    |        | TYPE       |         | NGDD            |   | 120/208   |                  | VOLTS         |   | 3       |                      | PH           |           | 4            |    | W            |            |  |  |
| MOUNTING                |  | FLUSH |        | DIMENSIONS |         | LOCATION        |   | ELEC ROOM |                  | MAINS         |   | LUGS    |                      | BREAKER      |           | SURFED LUGS  |    | ISO GROUND   |            |  |  |
| X SURFACE               |  | W     |        | D (in.)    |         | AMP             |   | 800       |                  | 200% NEUTRAL  |   | H       |                      | 200% NEUTRAL |           | 200% NEUTRAL |    | 200% NEUTRAL |            |  |  |
| BRANCH BREAKERS         |  |       |        |            |         |                 |   |           |                  |               |   |         |                      |              |           |              |    |              |            |  |  |
| ITEM                    |  | AMPS  | POLE   | WIRE SIZE  | CR. NO. | LEFT PHASE LOAD |   |           | RIGHT PHASE LOAD |               |   | CR. NO. | AMPS                 | POLE         | WIRE SIZE | ITEM         |    |              |            |  |  |
| PANEL MDP               |  | 1600  | 3      | 500        | 1       | 111033          | A | B         | C                | A             | B | C       | 2                    | 4            | 2         | 12           | 2  |              |            |  |  |
| -                       |  | -     | -      | -          | 3       | -               | - | -         | -                | -             | - | -       | 4                    | 20           | 1         | 12           | 4  |              |            |  |  |
| -                       |  | -     | -      | -          | 5       | -               | - | -         | -                | -             | - | -       | 6                    | 20           | 1         | 12           | 6  |              |            |  |  |
| PANEL E1                |  | 60    | 3      | 4          | 7       | 1876            | - | -         | -                | 109136        | - | -       | 8                    | 20           | 1         | 12           | 8  |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 9       | -               | - | -         | -                | 1500          | - | -       | 10                   | 20           | 1         | 12           | 10 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 11      | -               | - | -         | -                | 500           | - | -       | 12                   | 20           | 1         | 12           | 12 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 13      | -               | - | -         | -                | -             | - | -       | 14                   | 20           | 1         | 12           | 14 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 15      | -               | - | -         | -                | -             | - | -       | 16                   | 20           | 1         | 12           | 16 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 17      | -               | - | -         | -                | -             | - | -       | 18                   | 20           | 1         | 12           | 18 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 19      | -               | - | -         | -                | -             | - | -       | 20                   | 20           | 1         | 12           | 20 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 21      | -               | - | -         | -                | -             | - | -       | 22                   | 20           | 1         | 12           | 22 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 23      | -               | - | -         | -                | -             | - | -       | 24                   | 20           | 1         | 12           | 24 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 25      | -               | - | -         | -                | -             | - | -       | 26                   | 20           | 1         | 12           | 26 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 27      | -               | - | -         | -                | -             | - | -       | 28                   | 20           | 1         | 12           | 28 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 29      | -               | - | -         | -                | -             | - | -       | 30                   | 20           | 1         | 12           | 30 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 31      | -               | - | -         | -                | -             | - | -       | 32                   | 20           | 1         | 12           | 32 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 33      | -               | - | -         | -                | -             | - | -       | 34                   | 20           | 1         | 12           | 34 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 35      | -               | - | -         | -                | -             | - | -       | 36                   | 20           | 1         | 12           | 36 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 37      | -               | - | -         | -                | -             | - | -       | 38                   | 20           | 1         | 12           | 38 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 39      | -               | - | -         | -                | -             | - | -       | 40                   | 20           | 1         | 12           | 40 |              | SPACE ONLY |  |  |
| -                       |  | -     | -      | -          | 41      | -               | - | -         | -                | -             | - | -       | 42                   | 20           | 1         | 12           | 42 |              | SPACE ONLY |  |  |
| 12099                   |  | 12195 | 109636 | 0          | 0       | 0               | 0 | 0         | 0                | 0             | 0 | 0       | CONNECTED LOAD TOTAL |              | 334740 VA |              |    |              |            |  |  |
| 12099                   |  | 12195 | 109636 | TOTAL      |         | AMPS/PHASE      |   |           |                  |               |   |         |                      |              |           |              |    |              |            |  |  |
| 941                     |  | 935   | 914    | AMPS/PHASE |         | EQUIP RATING    |   | 65,000    |                  | AMPS RMS SYM. |   |         |                      |              |           |              |    |              |            |  |  |
| PROJECT NAME:           |  |       |        |            |         |                 |   |           |                  |               |   |         |                      |              |           |              |    |              |            |  |  |

| PANELBOARD SCHEDULE        |  |       |       |            |         |                 |   |                     |                  |              |   |         |      |              |           |              |    |              |                         |                      |  |  |          |  |               |  |
|----------------------------|--|-------|-------|------------|---------|-----------------|---|---------------------|------------------|--------------|---|---------|------|--------------|-----------|--------------|----|--------------|-------------------------|----------------------|--|--|----------|--|---------------|--|
| PANEL                      |  | L1    |       | TYPE       |         | NGDD            |   | 120/208             |                  | VOLTS        |   | 3       |      | PH           |           | 4            |    | W            |                         |                      |  |  |          |  |               |  |
| MOUNTING                   |  | FLUSH |       | DIMENSIONS |         | LOCATION        |   | ELECTRICAL ROOM 151 |                  | MAINS        |   | LUGS    |      | BREAKER      |           | SURFED LUGS  |    | ISO GROUND   |                         |                      |  |  |          |  |               |  |
| X SURFACE                  |  | W     |       | D (in.)    |         | AMP             |   | 225                 |                  | 200% NEUTRAL |   | H       |      | 200% NEUTRAL |           | 200% NEUTRAL |    | 200% NEUTRAL |                         |                      |  |  |          |  |               |  |
| BRANCH BREAKERS            |  |       |       |            |         |                 |   |                     |                  |              |   |         |      |              |           |              |    |              |                         |                      |  |  |          |  |               |  |
| ITEM                       |  | AMPS  | POLE  | WIRE SIZE  | CR. NO. | LEFT PHASE LOAD |   |                     | RIGHT PHASE LOAD |              |   | CR. NO. | AMPS | POLE         | WIRE SIZE | ITEM         |    |              |                         |                      |  |  |          |  |               |  |
| SALLYPORT RPT-1            |  | 20    | 1     | 12         | 1       | 1378            | - | -                   | -                | 960          | - | -       | 2    | 20           | 1         | 12           | 2  |              | INTERIOR LIGHTING       |                      |  |  |          |  |               |  |
| OFFICE LIGHTING            |  | 20    | 1     | 12         | 3       | -               | - | -                   | -                | 1026         | - | -       | 4    | 20           | 1         | 12           | 4  |              | RECORDS CLERK ROOM 104  |                      |  |  |          |  |               |  |
| ROOM 138                   |  | 20    | 1     | 12         | 5       | -               | - | -                   | -                | 1344         | - | -       | 6    | 20           | 1         | 12           | 6  |              | INTERIOR LIGHTING       |                      |  |  |          |  |               |  |
| CORR. 133 122 121 LIGHTING |  | 20    | 1     | 12         | 7       | 1356            | - | -                   | -                | 160          | - | -       | 8    | 20           | 1         | 12           | 8  |              | INTERIOR LIGHTING RPT-6 |                      |  |  |          |  |               |  |
| CORRIDORS EX LIGHTING      |  | 20    | 1     | 12         | 9       | -               | - | -                   | -                | 1196         | - | -       | 10   | 20           | 1         | 12           | 10 |              | ROOM 185                |                      |  |  |          |  |               |  |
| INTERIOR LIGHTING          |  | 20    | 1     | 12         | 11      | -               | - | -                   | -                | 1376         | - | -       | 12   | 20           | 1         | 12           | 12 |              | INTERIOR LIGHTING       |                      |  |  |          |  |               |  |
| INTERIOR LIGHTING          |  | 20    | 1     | 12         | 13      | 1280            | - | -                   | -                | 1152         | - | -       | 14   | 20           | 1         | 12           | 14 |              | INTERIOR LIGHTING       |                      |  |  |          |  |               |  |
| INTERIOR LIGHTING RPT-2    |  | 20    | 1     | 12         | 15      | -               | - | -                   | -                | 1248         | - | -       | 16   | 20           | 1         | 12           | 16 |              | RELAY PANEL RPT1        |                      |  |  |          |  |               |  |
| INTERIOR LIGHTING          |  | 20    | 1     | 12         | 17      | -               | - | -                   | -                | 1312         | - | -       | 18   | 20           | 1         | 12           | 18 |              | INTERIOR LIGHTING       |                      |  |  |          |  |               |  |
| INTERIOR LIGHTING RPT-3    |  | 20    | 1     | 12         | 19      | 1152            | - | -                   | -                | 1500         | - | -       | 20   | 20           | 1         | 12           | 20 |              | SALLY PORT              |                      |  |  |          |  |               |  |
| INTERIOR LIGHTING RPT-3    |  | 20    | 1     | 12         | 21      | -               | - | -                   | -                | 864          | - | -       | 22   | 20           | 1         | 12           | 22 |              | BOLLARDS                |                      |  |  |          |  |               |  |
| INTERIOR LIGHTING          |  | 20    | 1     | 12         | 23      | -               | - | -                   | -                | 1024         | - | -       | 24   | 20           | 1         | 12           | 24 |              | FLAT PLOE               |                      |  |  |          |  |               |  |
| INTERIOR LIGHTING          |  | 20    | 1     | 12         | 25      | 1024            | - | -                   | -                | 1000         | - | -       | 26   | 20           | 1         | 12           | 26 |              | INTERIOR LIGHTING       |                      |  |  |          |  |               |  |
| INTERIOR LIGHTING RPT-4.5  |  | 20    | 1     | 12         | 27      | -               | - | -                   | -                | 1376         | - | -       | 28   | 20           | 1         | 12           | 28 |              | FROM FLOOD LIGHTS       |                      |  |  |          |  |               |  |
| INTERIOR LIGHTING          |  | 20    | 1     | 12         | 29      | -               | - | -                   | -                | 1344         | - | -       | 30   | 20           | 1         | 12           | 30 |              | -                       |                      |  |  |          |  |               |  |
| SPARE                      |  | 20    | 1     | 31         | -       | -               | - | -                   | -                | -            | - | -       | 32   | 20           | 1         | 12           | 32 |              | SPARE                   |                      |  |  |          |  |               |  |
| SPARE                      |  | 20    | 1     | 33         | -       | -               | - | -                   | -                | -            | - | -       | 34   | 20           | 1         | 12           | 34 |              | SPARE                   |                      |  |  |          |  |               |  |
| SPARE                      |  | 20    | 1     | 35         | -       | -               | - | -                   | -                | -            | - | -       | 36   | 20           | 1         | 12           | 36 |              | SPARE                   |                      |  |  |          |  |               |  |
| SPARE                      |  | 20    | 1     | 37         | -       | -               | - | -                   | -                | -            | - | -       | 38   | 20           | 1         | 12           | 38 |              | SPARE                   |                      |  |  |          |  |               |  |
| SPARE                      |  | 20    | 1     | 39         | -       | -               | - | -                   | -                | -            | - | -       | 40   | 20           | 1         | 12           | 40 |              | SPARE                   |                      |  |  |          |  |               |  |
| SPARE                      |  | 20    | 1     | 41         | -       | -               | - | -                   | -                | -            | - | -       | 42   | 20           | 1         | 12           | 42 |              | SPARE                   |                      |  |  |          |  |               |  |
| 6190                       |  | 5740  | 6752  | 4772       | 3788    | 5606            |   |                     |                  |              |   |         |      |              |           |              |    |              |                         | CONNECTED LOAD TOTAL |  |  | 32848 VA |  |               |  |
| 10962                      |  | 9628  | 12358 | TOTAL      |         |                 |   |                     |                  |              |   |         |      |              |           |              |    |              |                         | EQUIP RATING         |  |  | 21,752   |  | AMPS RMS SYM. |  |
| 91                         |  | 79    | 163   | AMPS/PHASE |         |                 |   |                     |                  |              |   |         |      |              |           |              |    |              |                         | EQUIP RATING         |  |  | 21,752   |  | AMPS RMS SYM. |  |
| PROJECT NAME:              |  |       |       |            |         |                 |   |                     |                  |              |   |         |      |              |           |              |    |              |                         |                      |  |  |          |  |               |  |

| CONTROL RELAY SCHEDULE |                               |            |                     |      |            |             |
|------------------------|-------------------------------|------------|---------------------|------|------------|-------------|
| Panel Name:            |                               |            | RP1                 |      |            |             |
| Location:              |                               |            | ELECTRICAL ROOM 151 |      |            |             |
| Transformer Voltage:   |                               |            | 120-24              |      |            |             |
| Control Circuit:       |                               |            | L1-16               |      |            |             |
| Relay #                | Description                   | Panel      | Circuit             | Load | Switch     | Low Voltage |
| 1                      | SALLY PORT LIGHTING           | L1 - 1     | 1378                |      | SWITCH     |             |
| 2                      | PATROL BRIEFING               | L1 - 15    | 896                 |      | SWITCH     |             |
| 3                      | EVIDENCE STORAGE 127          | L1 - 19.21 | 1536                |      | SWITCH     |             |
| 4                      | STAINED GLASS LIGHTING        | L1 - 14    | 250                 |      | TIME CLOCK |             |
| 5                      | FRONT FLOOD LIGHTING          | L1 - 28.30 | 1000                |      | TIME CLOCK |             |
| 6                      | EXTERIOR LIGHTING             | L1 - 6     | 160                 |      | TIME CLOCK |             |
| 7                      | LOCKER RM                     | L1 - 25    | 500                 |      | SWITCH     |             |
| 8                      | PATROL REPORT WRITING         | L1 - 5     | 500                 |      | SWITCH     |             |
| 9                      | HALLWAY 122                   | L1 - 7     | 500                 |      | SWITCH     |             |
| 10                     | EGRESS LIGHTING               | E1 - 1     | 1500                |      | TIME CLOCK |             |
| 11                     | EXTERIOR LIGHTING             | L1 - 18.20 | 3000                |      | TIME CLOCK |             |
| 12                     | SALLY PORT EXTERIOR           | L1 - 22    | 300                 |      | TIME CLOCK |             |
| 13                     | PUBLIC LOBBY                  | L1 - 6     | 1200                |      | SWITCH/TC  |             |
| 14                     | EXTERIOR BOLLARDS AND PARKING | L1 - 24    | 500                 |      | TIME CLOCK |             |
| 15                     | FLAG POLE                     | L1 - 26    | 1000                |      | TIME CLOCK |             |
| 16                     | SPARE                         | -          |                     |      |            |             |
| 17                     | SPARE                         | -          |                     |      |            |             |
| 18                     | SPARE                         | -          |                     |      |            |             |
| 19                     | SPARE                         | -          |                     |      |            |             |
| 20                     | SPARE                         | -          |                     |      |            |             |
| 21                     | SOFTT RECEPTACLE              | P4 - 25    | 360                 |      | TIME CLOCK |             |
| 22                     | SOFTT RECEPTACLE              | P3 - 37    | 360                 |      | TIME CLOCK |             |
| 23                     | SOFTT RECEPTACLE              | P3 - 42    | 180                 |      | TIME CLOCK |             |
| 24                     | SOFTT RECEPTACLE              | P4   23    | 180                 |      | TIME CLOCK |             |
| 25                     | SPARE                         |            |                     |      |            |             |
| 26                     | SPARE                         |            |                     |      |            |             |
| 27                     | SPARE                         |            |                     |      |            |             |
| 28                     | SPARE                         |            |                     |      |            |             |
| 29                     | SPACE ONLY                    |            |                     |      |            |             |
| 30                     | SPACE ONLY                    |            |                     |      |            |             |
| 31                     | SPACE ONLY                    |            |                     |      |            |             |
| 32                     | SPACE ONLY                    |            |                     |      |            |             |
| 33                     | SPACE ONLY                    |            |                     |      |            |             |
| 34                     | SPACE ONLY                    |            |                     |      |            |             |
| 35                     | SPACE ONLY                    |            |                     |      |            |             |
| 36                     | SPACE ONLY                    |            |                     |      |            |             |
| 37                     | SPACE ONLY                    |            |                     |      |            |             |
| 38                     | SPACE ONLY                    |            |                     |      |            |             |
| 39                     | SPACE ONLY                    |            |                     |      |            |             |
| 40                     | SPACE ONLY                    |            |                     |      |            |             |
| 41                     | SPACE ONLY                    |            |                     |      |            |             |
| 42                     | SPACE ONLY                    |            |                     |      |            |             |
| 43                     | SPACE ONLY                    |            |                     |      |            |             |
| 44                     | SPACE ONLY                    |            |                     |      |            |             |
| 45                     | SPACE ONLY                    |            |                     |      |            |             |
| 46                     | SPACE ONLY                    |            |                     |      |            |             |
| 47                     | SPACE ONLY                    |            |                     |      |            |             |
| 48                     | SPACE ONLY                    |            |                     |      |            |             |





KAYSVILLE, UTAH

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(801) 533-2100 fax: 533-2101 [jrcadesign.com](http://jrcadesign.com)

PROJECT #.

EX301

EX301



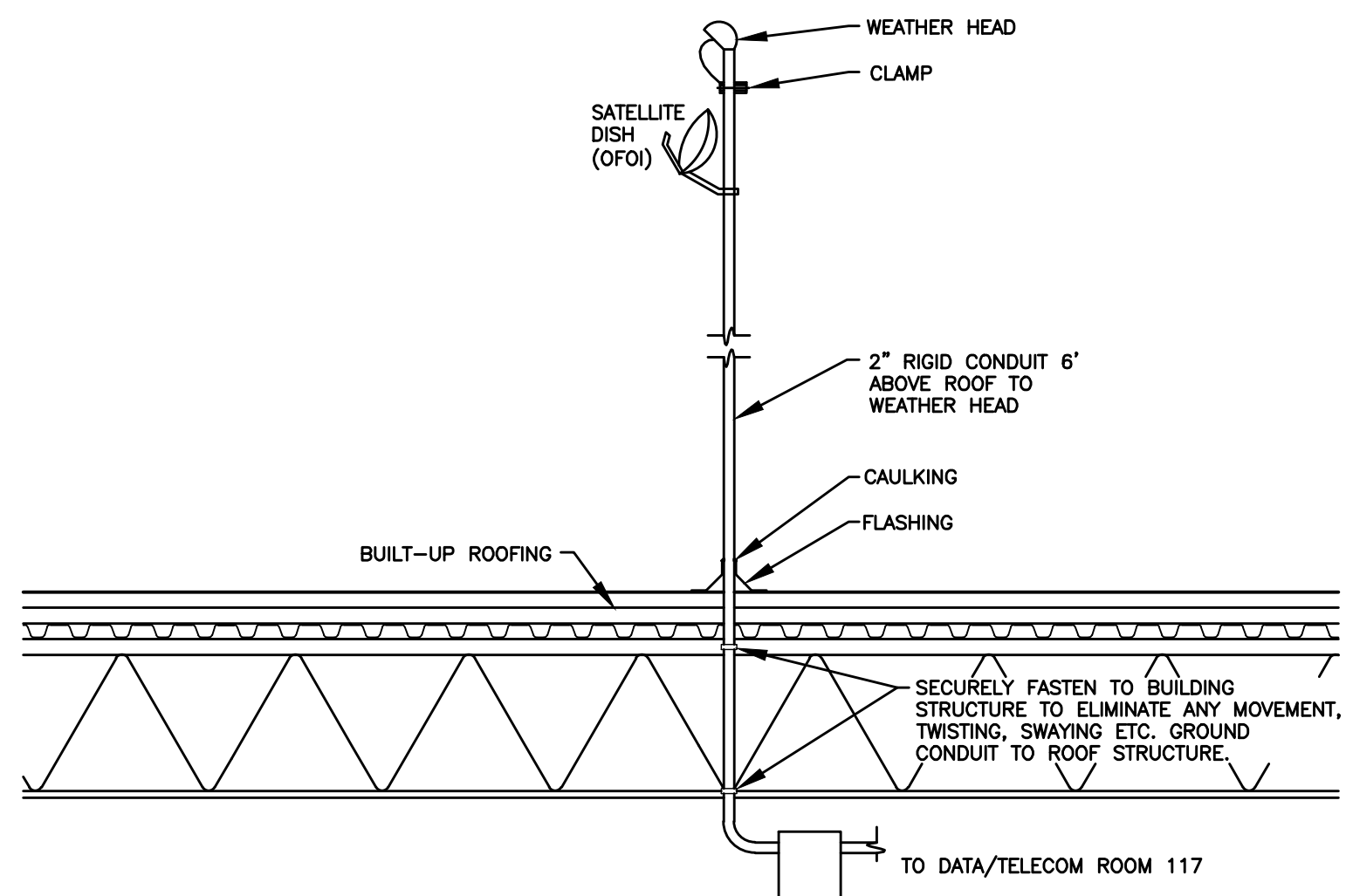


DIAGRAM G005 SATELLITE TV ROOF CONDUIT NTS

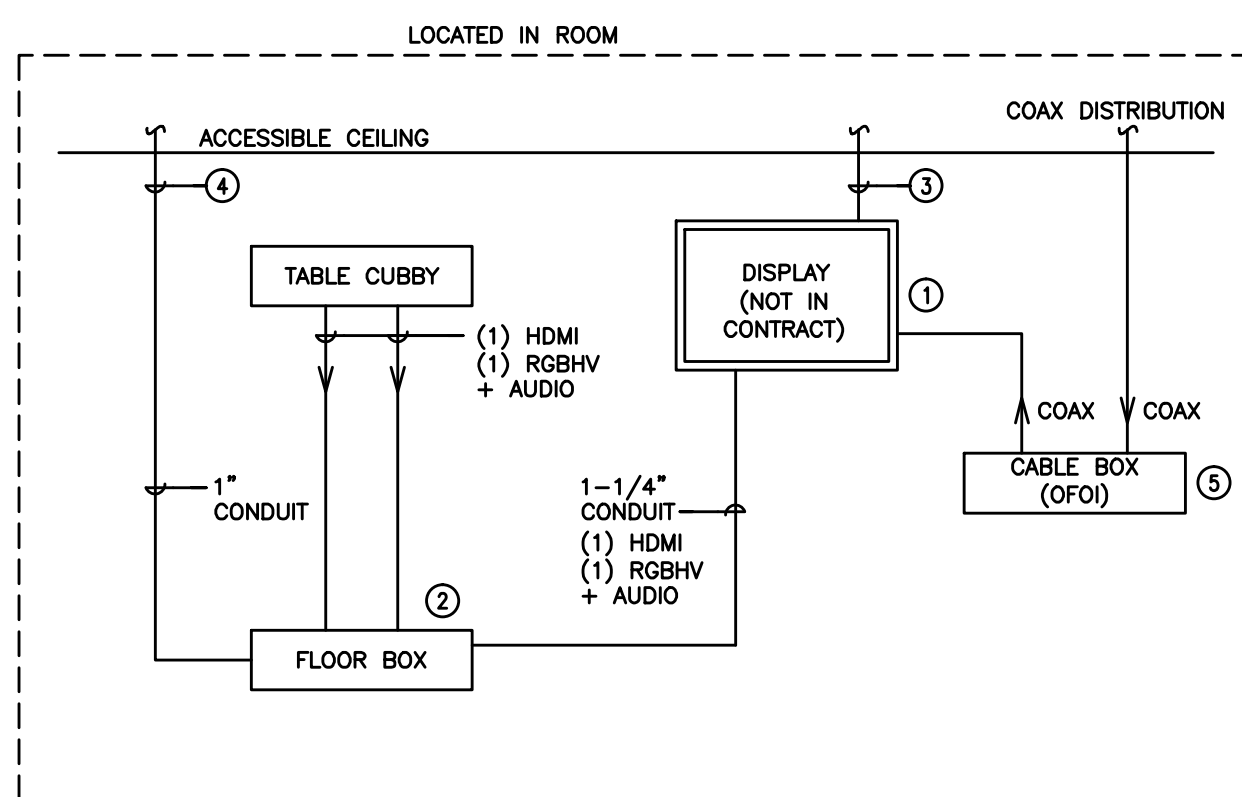


DIAGRAM AV02 TYPICAL CONFERENCE ROOM AV NTS

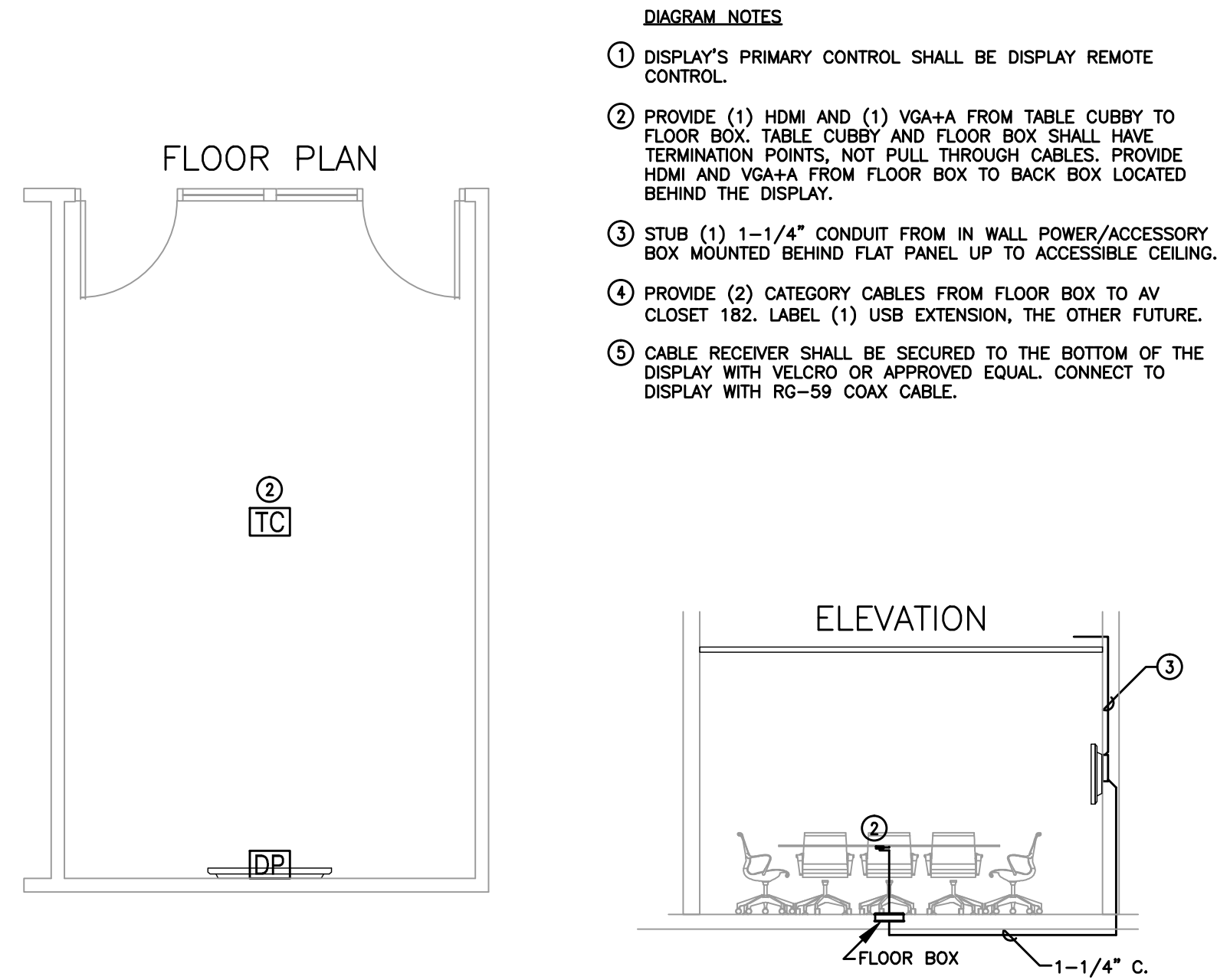
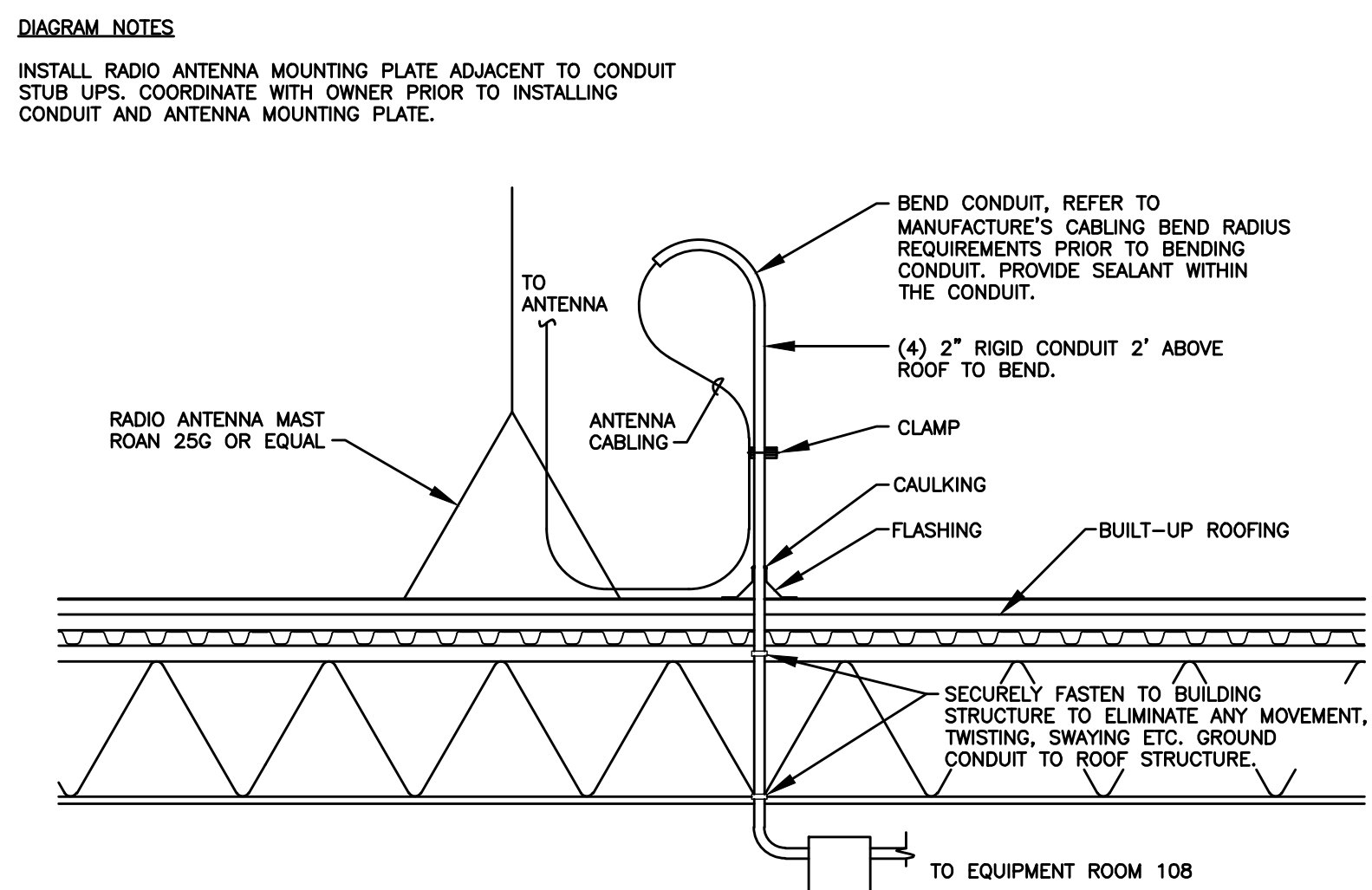


DIAGRAM G006 RADIO ROOF CONDUIT NTS

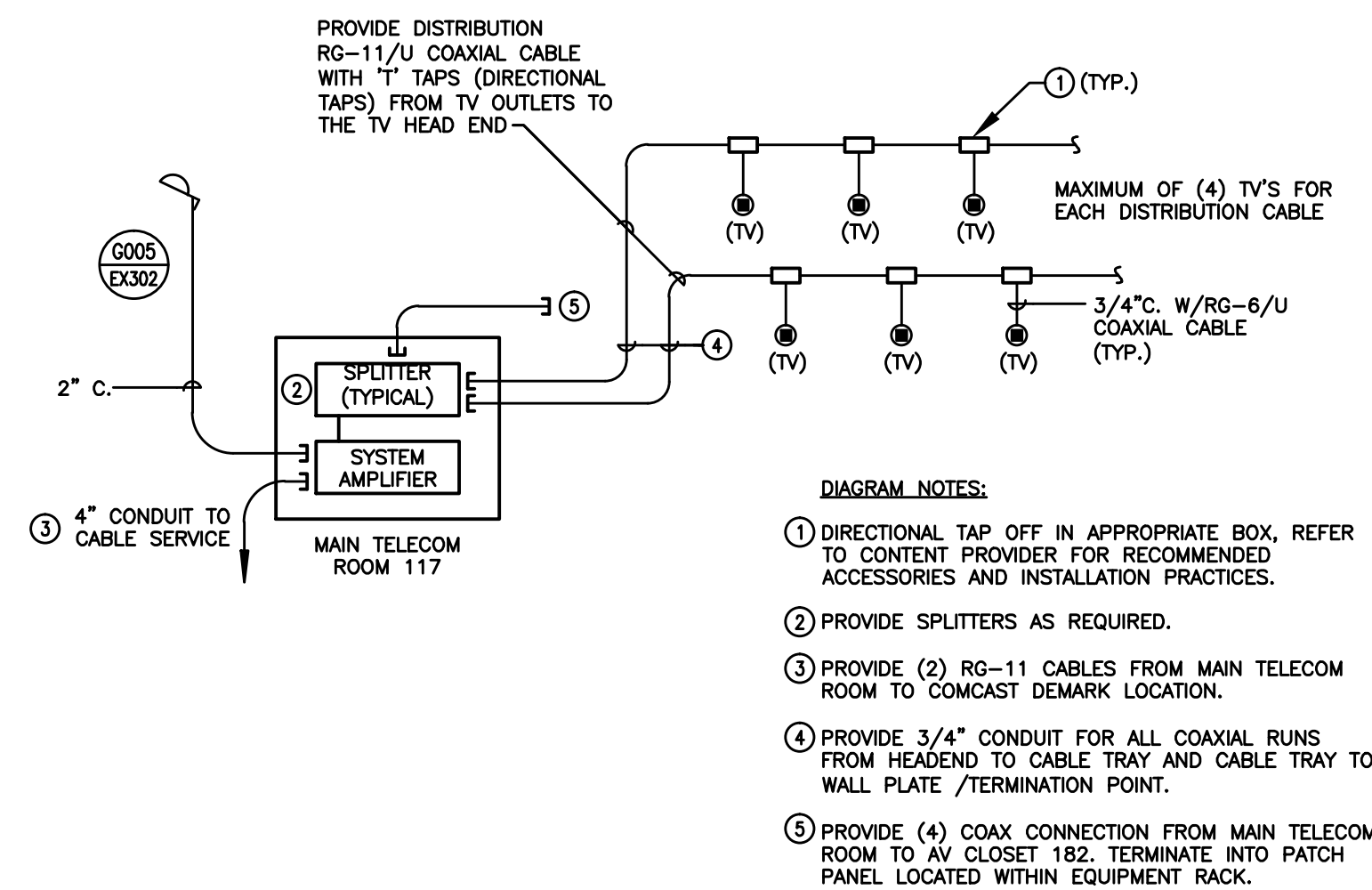


DIAGRAM G007 TV SYSTEM RISER NTS

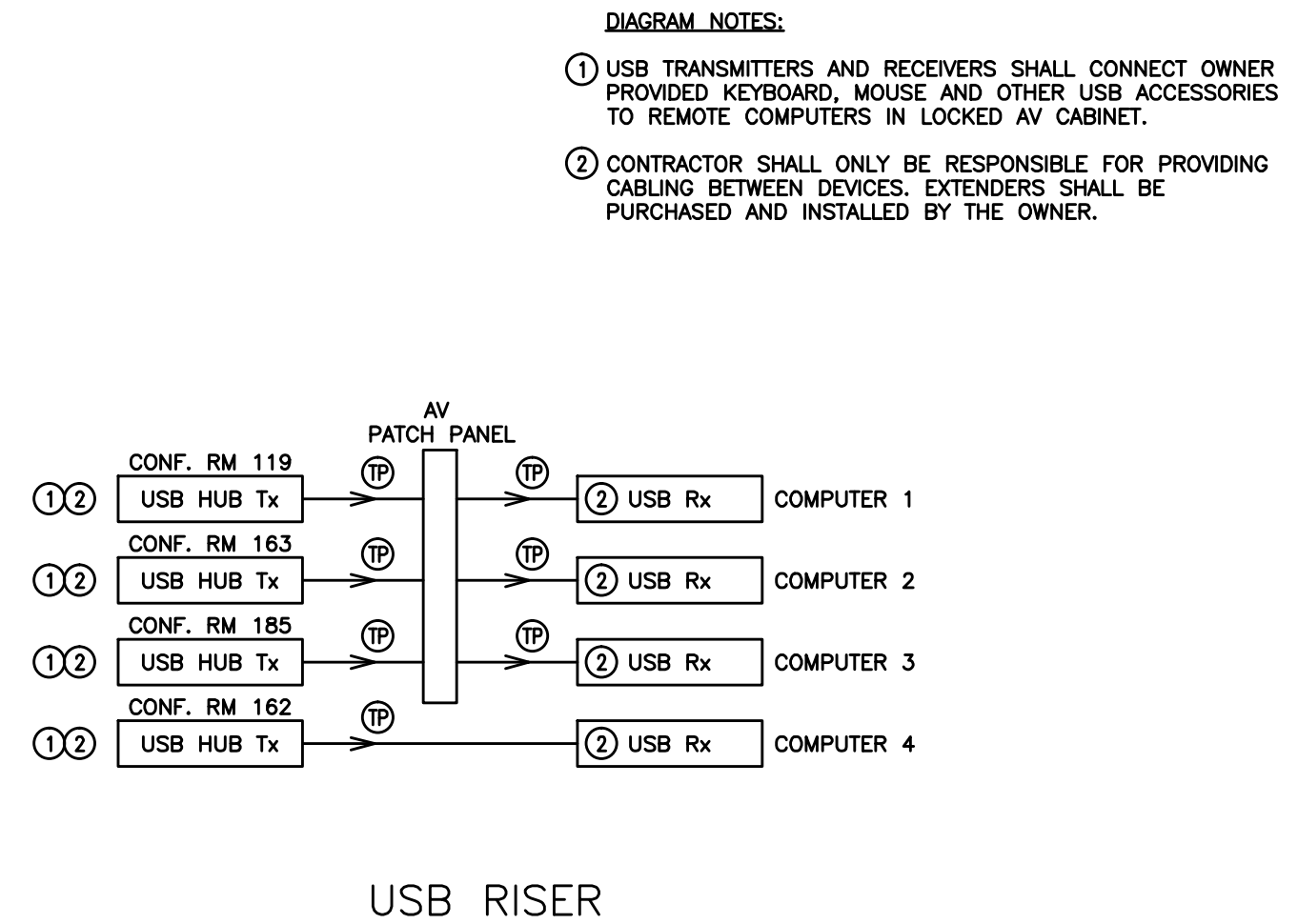


DIAGRAM AV11 USB EXTENSION RISER NTS

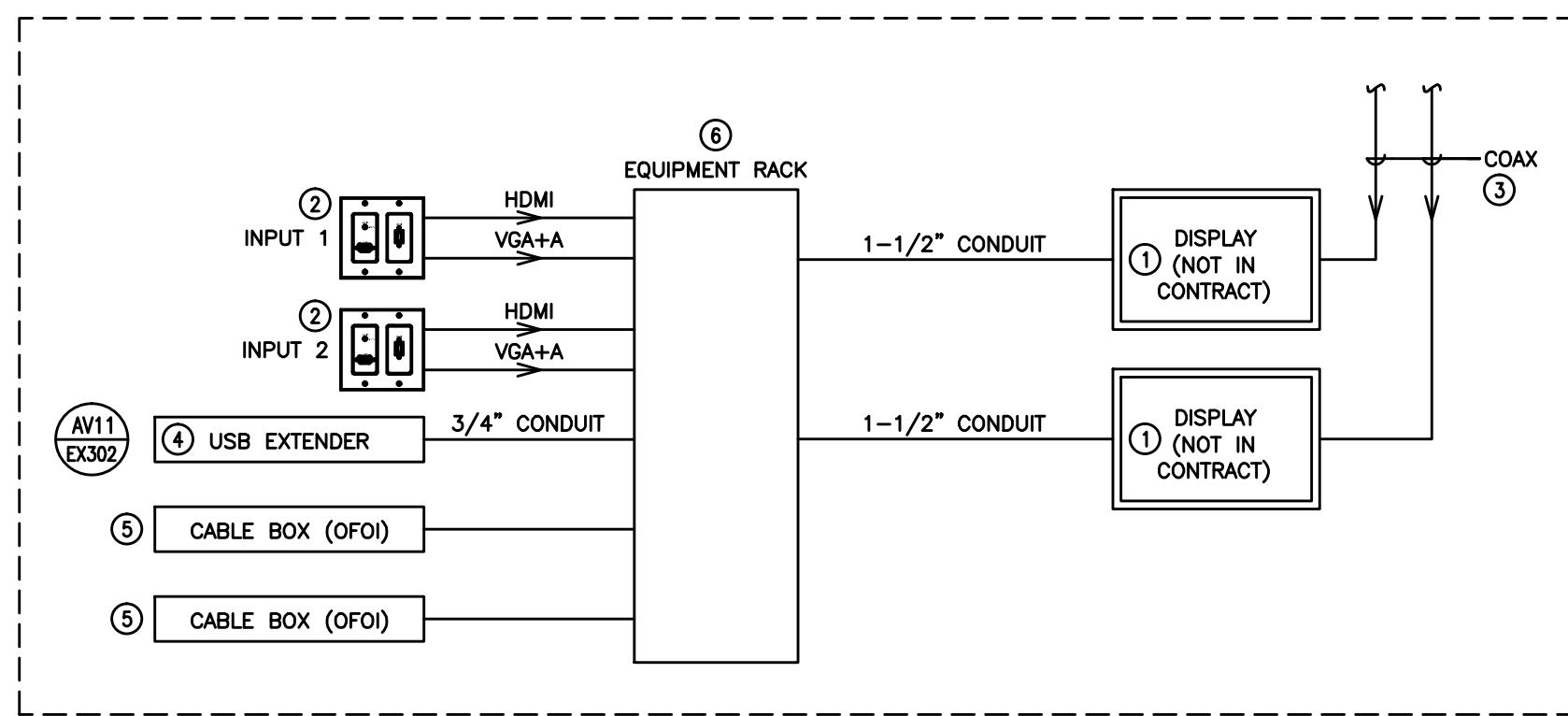


DIAGRAM AV03 PATROL BRIEFING ROOM AV NTS

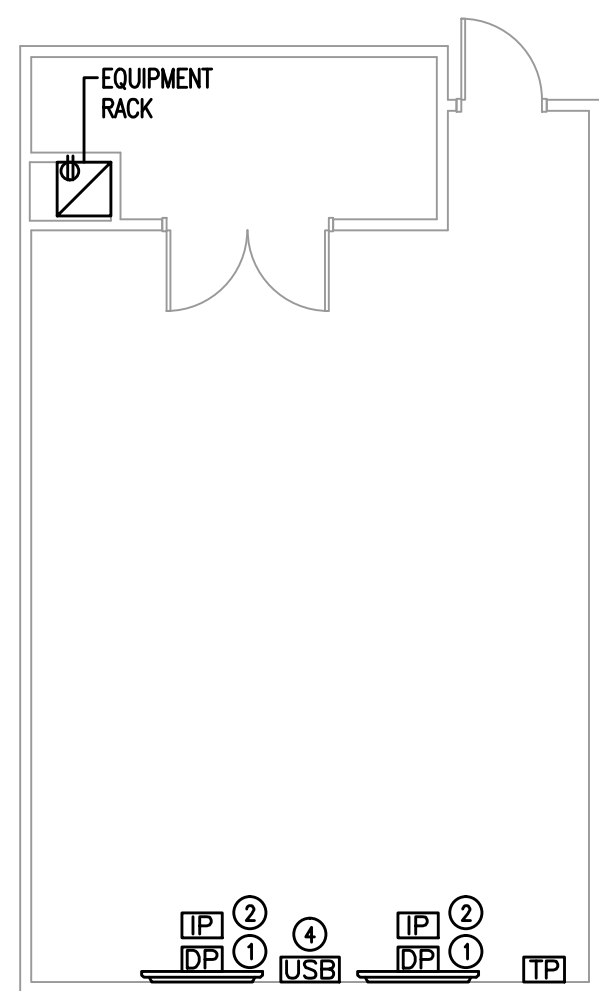


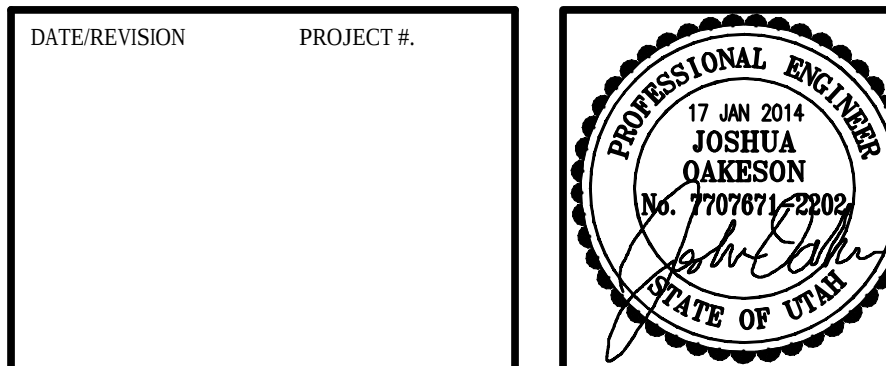
DIAGRAM AV04 PAGING SYSTEM RISER NTS

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AV DIAGRAMS

EX302