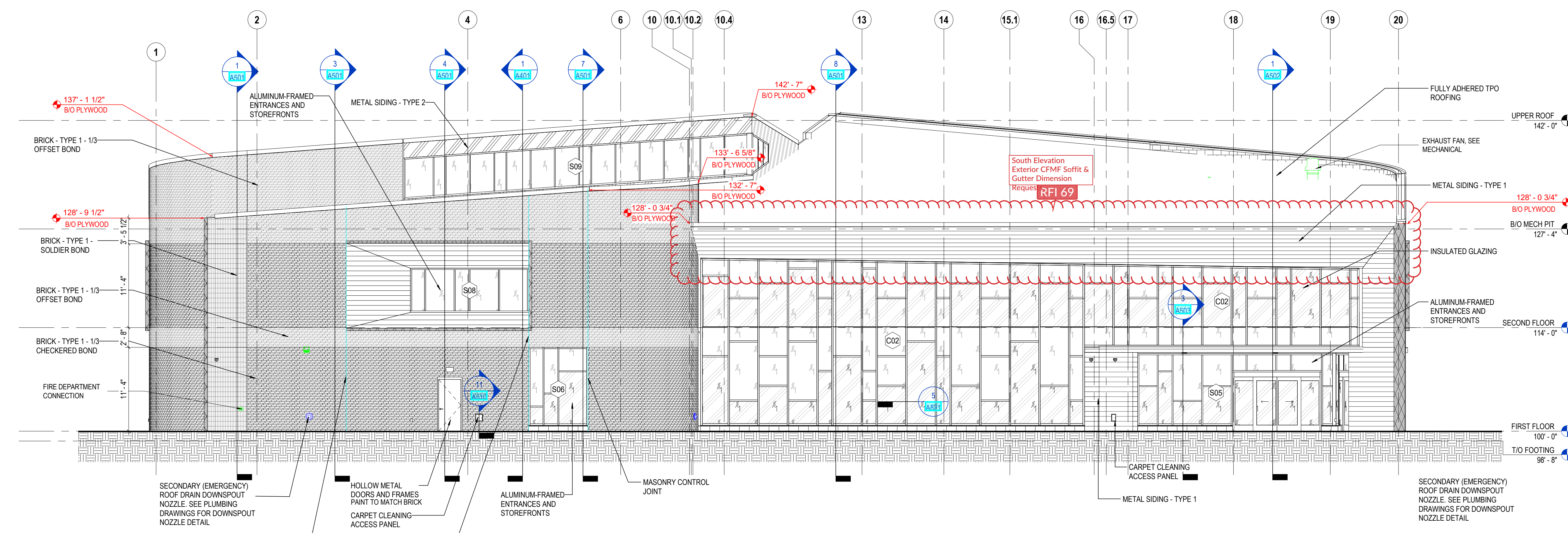


**2 ELEVATION EAST**  
 1/8" = 1'-0" REF: 1/A101



**1 ELEVATION SOUTH**  
 1/8" = 1'-0" REF: 1/A101

**GENERAL NOTES - EXTERIOR ELEVATIONS**

- SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION AND CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.
- REFER TO A101 SERIES SHEETS FOR WINDOW, DOOR SCHEDULES & DETAILS.
- REFER TO REFLECTED CEILING PLANS FOR EXTERIOR SOFFIT INFORMATION.
- COORDINATE FINAL LOCATIONS OF EXTERIOR HVAC UNITS AND VENTS WITH ARCHITECT PRIOR TO ROUGH IN / INSTALLATION.

**CODED NOTE LEGEND**

- EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
- ROOF LADDER TO ADJACENT ROOF LEVEL. SEE DETAILS ON SHEET 8/A530 AND SPECIFICATION SECTION 05 50 00.
- ENCLOSE STRUCTURAL PIER WITH TPO MEMBRANE.
- ROOF TOP MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
- CARPET CLEANING HOSE LOCKABLE ACCESS PANELS. PROVIDE ACCESS PANEL AT THE INTERIOR & EXTERIOR SIDE OF WALL WITH A STAINLESS STEEL INNER LINING AND FRAME. SEE SPECIFICATIONS 08 31 13.
- HOSE BIB. SEE PLUMBING DRAWINGS.
- GAS METER & PIPING. SEE PLUMBING DRAWINGS.
- SECONDARY (EMERGENCY) ROOF DRAIN DOWNSPOUT NOZZLE. SEE PLUMBING DRAWINGS FOR DOWNSPOUT NOZZLE DETAIL.

**EXTERIOR LEGEND**

	IG-1 EXTERIOR INSULATED GLAZING
	IG-1A EXTERIOR INSULATED GLAZING (TEMPERED)
	IG-2 EXTERIOR INSULATED GLAZING (LAMINATED)
	IG-2A EXTERIOR INSULATED GLAZING (TRANSLUCENT TEMPERED)
	IG-3 EXTERIOR INSULATED GLAZING (SPANDREL - LIGHT GRAY)
	METAL SIDING TYPE 1
	METAL SIDING TYPE 2
	FORMED METAL FABRICATIONS

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
04 00 00.B1A	BRICK - TYPE 1 - 1/3 OFFSET BOND
04 00 00.B1B	BRICK - TYPE 1 - 1/3 CHECKERED BOND
04 00 00.B1C	BRICK - TYPE 1 - SOLDIER BOND
04 00 00.X17	MASONRY CONTROL JOINT
05 50 00	FORMED METAL FABRICATIONS
07 46 10.A1	METAL SIDING - TYPE 1
07 46 10.A2	METAL SIDING - TYPE 2
07 54 23.A2	FULLY ADHERED TPO ROOFING
07 62 00.F1	GRAVEL STOP
08 11 13	HOLLOW METAL DOORS AND FRAMES
08 31 13.A1	CARPET CLEANING ACCESS PANEL
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 42 29	SLIDING AUTOMATIC ENTRANCES
08 81 00.A1	INSULATED GLAZING
10 41 16	EMERGENCY KEY CABINETS
10 73 16	CANOPIES
11 51 16	BOOK DEPOSITORIES
22 14 26.A4	SECONDARY (EMERGENCY) ROOF DRAIN DOWNSPOUT NOZZLE. SEE PLUMBING DRAWINGS FOR DOWNSPOUT NOZZLE DETAIL.

**RFI 67 Metal Siding Types**

#	DATE	CHANGE DESCRIPTION
1	8/18/2020	BULLETIN 05
2	9/30/2020	RFI 067
3	Date 16	RFI 069
4	01/29/2021	BULLETIN 06

**CML KARL ROAD BRANCH**  
 5590 Hart Road  
 Columbus, Ohio 43229  
 FOR  
**COLUMBUS METROPOLITAN LIBRARY**

300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

**EXTERIOR ELEVATIONS - OVERALL**

DRAWING TITLE: EXTERIOR ELEVATIONS - OVERALL

DATE: FEBRUARY 21, 2020

DRAWN BY: KG CHECKED BY: HBBL

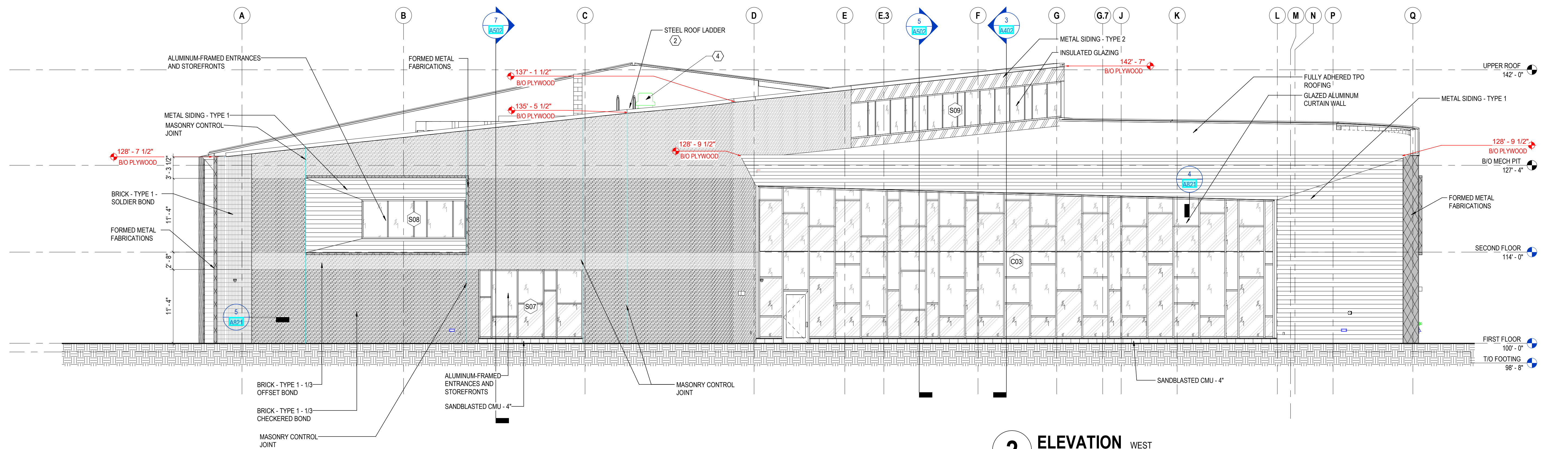
18428

**A301**

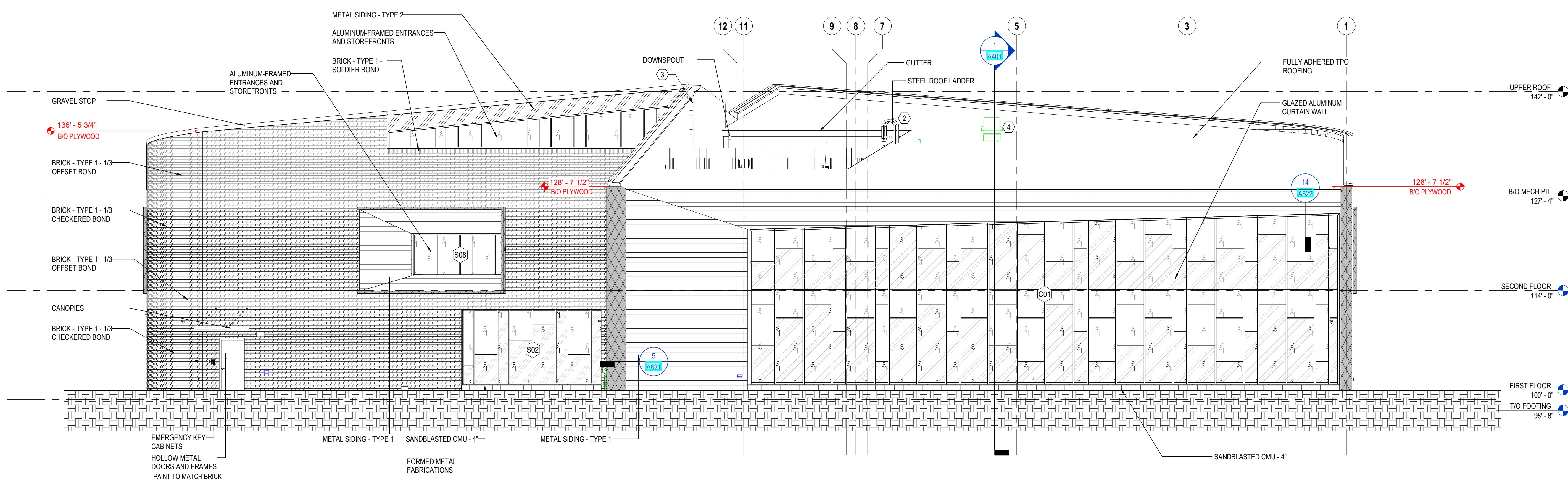
PERMIT SET

CURTIS J. MOODY, LIC. #7096  
 EXP. DATE: 12/31/2019





**2 ELEVATION WEST**  
 1/8" = 1'-0" REF: 1/A101



**1 ELEVATION NORTH**  
 1/8" = 1'-0" REF: 1/A101

**GENERAL NOTES - EXTERIOR ELEVATIONS**

- SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION AND CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.
- REFER TO A700 SERIES SHEETS FOR WINDOW, DOOR SCHEDULES & DETAILS.
- REFER TO REFLECTED CEILING PLANS FOR EXTERIOR SOFFIT INFORMATION.
- COORDINATE FINAL LOCATIONS OF EXTERIOR HVAC UNITS AND VENTS WITH ARCHITECT PRIOR TO ROUGH IN / INSTALLATION.

**CODED NOTE LEGEND**

- EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
- ROOF LADDER TO ADJACENT ROOF LEVEL. SEE DETAILS ON SHEET 8/A530 AND SPECIFICATION SECTION 05 50 00.
- ENCLOSE STRUCTURAL PIER WITH TPO MEMBRANE.
- ROOF TOP MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
- CARPET CLEANING HOSE LOCKABLE ACCESS PANELS. PROVIDE ACCESS PANEL AT THE INTERIOR & EXTERIOR SIDE OF WALL WITH A STAINLESS STEEL INNER LINING AND FRAME. SEE SPECIFICATIONS 08 31 13.
- HOSE BIB. SEE PLUMBING DRAWINGS.
- GAS METER & PIPING. SEE PLUMBING DRAWINGS.
- SECONDARY (EMERGENCY) ROOF DRAIN DOWNSPOUT NOZZLE. SEE PLUMBING DRAWINGS FOR DOWNSPOUT NOZZLE DETAIL.

**EXTERIOR LEGEND**

	<b>IG-1</b> EXTERIOR INSULATED GLAZING
	<b>IG-1A</b> EXTERIOR INSULATED GLAZING (TEMPERED)
	<b>IG-2</b> EXTERIOR INSULATED GLAZING (LAMINATED)
	<b>IG-2A</b> EXTERIOR INSULATED GLAZING (TRANSLUCENT TEMPERED)
	<b>IG-3</b> EXTERIOR INSULATED GLAZING (SPANDREL - LIGHT GRAY)
	METAL SIDING TYPE 1
	METAL SIDING TYPE 2
	FORMED METAL FABRICATIONS

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
04 00 00 B1A	BRICK - TYPE 1 - 1/3 OFFSET BOND
04 00 00 B1B	BRICK - TYPE 1 - 1/3 CHECKERED BOND
04 00 00 B1C	BRICK - TYPE 1 - SOLDIER BOND
04 00 00 T1	SANDBLASTED CMU - 4"
04 00 00 X17	MASONRY CONTROL JOINT
05 50 00 K1	STEEL ROOF LADDER
05 50 00	FORMED METAL FABRICATIONS
07 48 10 A1	METAL SIDING - TYPE 1
07 48 10 A2	METAL SIDING - TYPE 2
07 54 23 A2	FULLY ADHERED TPO ROOFING
07 62 00 A1	GUTTER
07 62 00 D1	DOWNSPOUT
07 62 00 F1	GRAVEL STOP
08 11 13	HOLLOW METAL DOORS AND FRAMES
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 44 13	GLAZED ALUMINUM CURTAIN WALL
08 81 00 A1	INSULATED GLAZING
10 41 16	EMERGENCY KEY CABINETS
10 73 16	CANOPIES

**RFI 67 Metal Siding Types**

#	DATE	CHANGE DESCRIPTION
1	9/30/2020	RFI 067
2	Date 16	RFI 069
3	01/29/2021	BULLETIN 06

**CML KARL ROAD BRANCH**  
 5590 Karl Road  
 Columbus, Ohio 43229  
 FOR  
**COLUMBUS METROPOLITAN LIBRARY**

300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

**EXTERIOR ELEVATIONS - OVERALL**

DRAWING TITLE: **EXTERIOR ELEVATIONS - OVERALL**

DATE: FEBRUARY 21, 2020

DRAWN BY: KG CHECKED BY: HBBBL

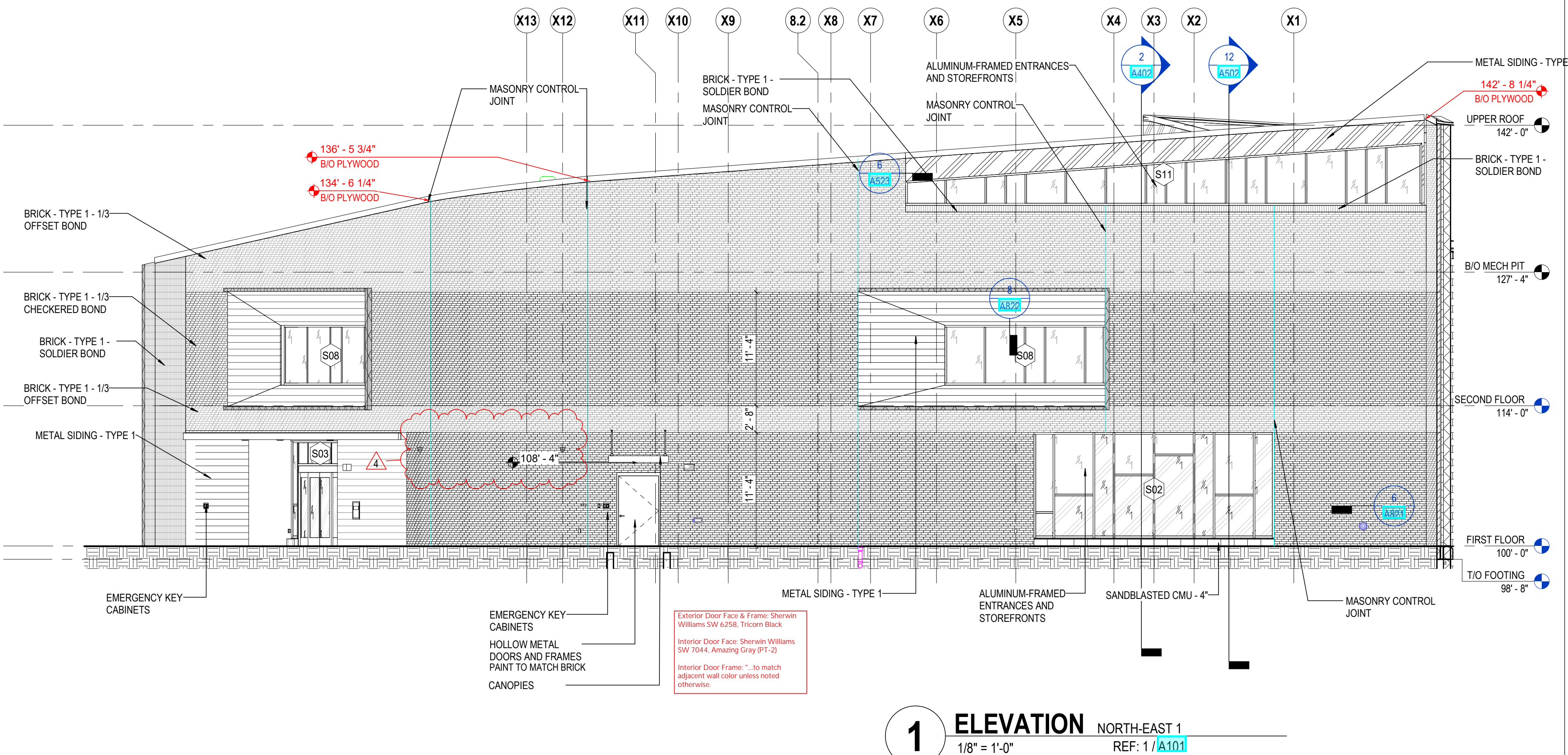
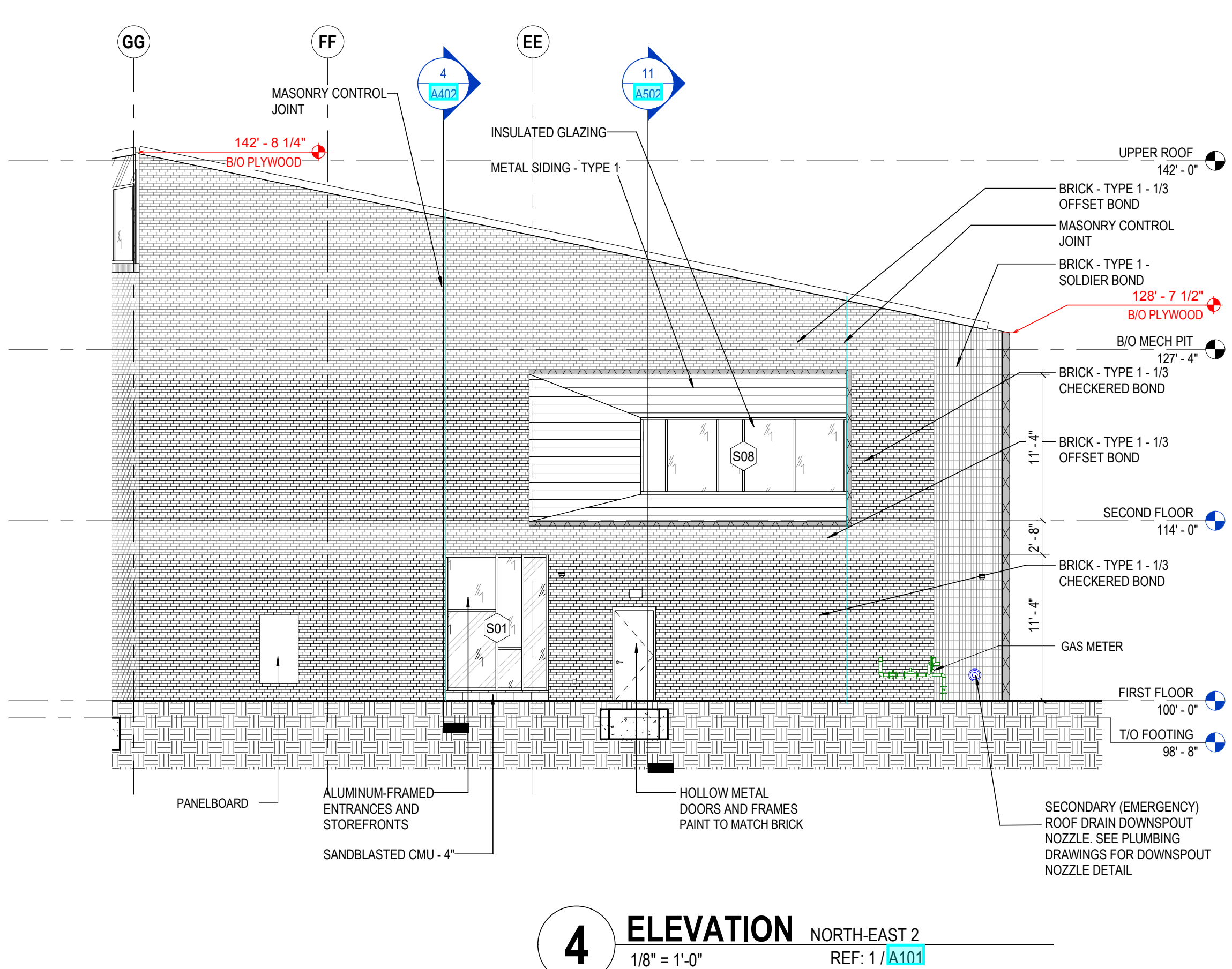
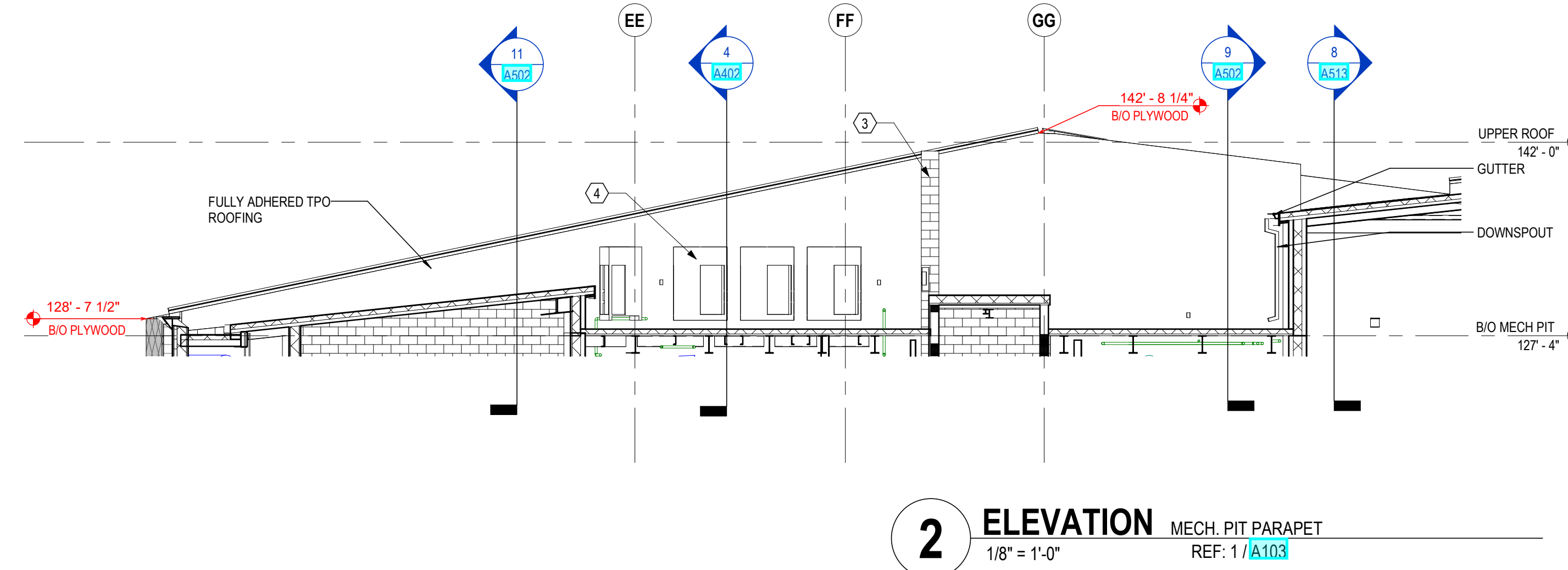
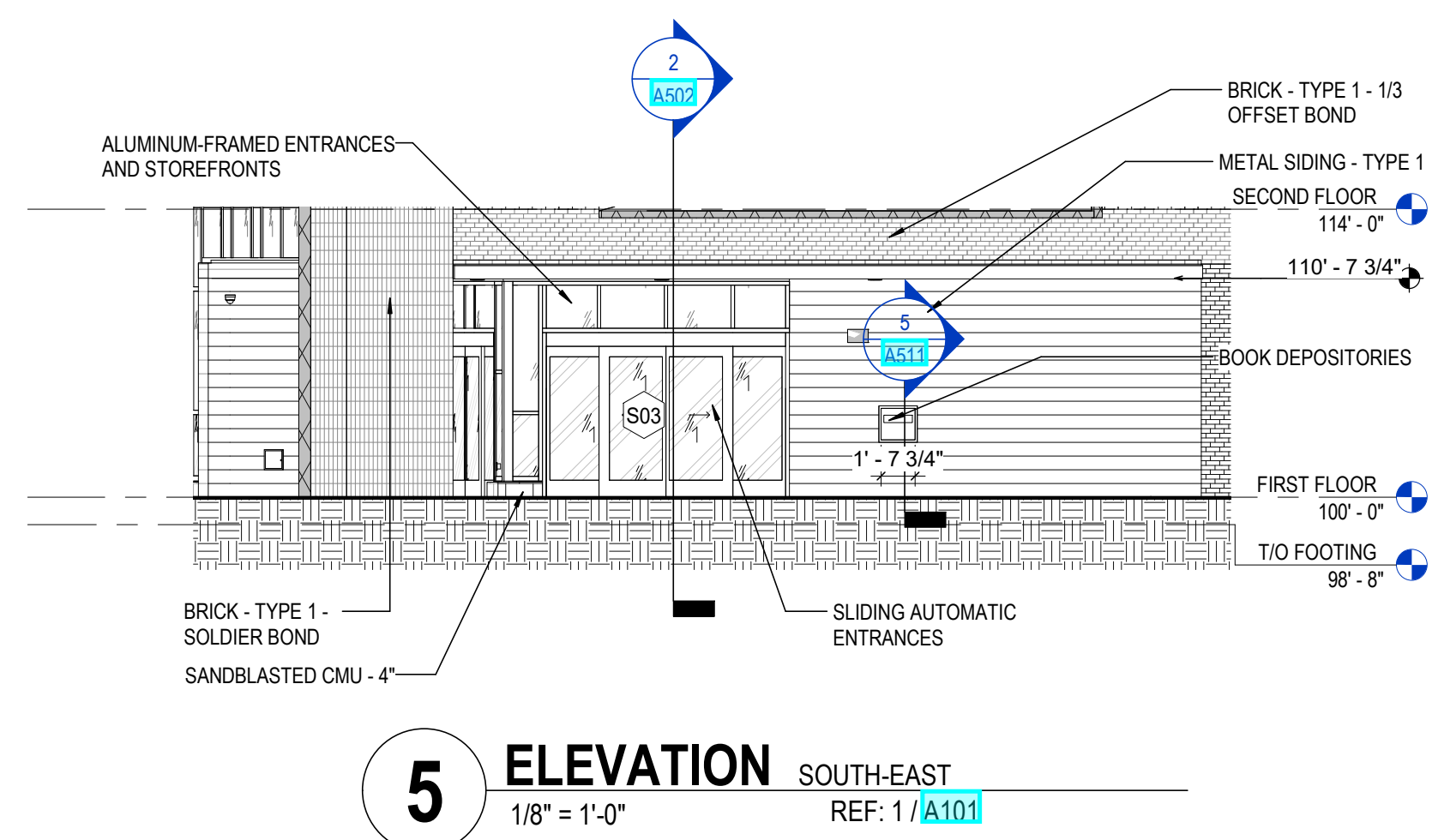
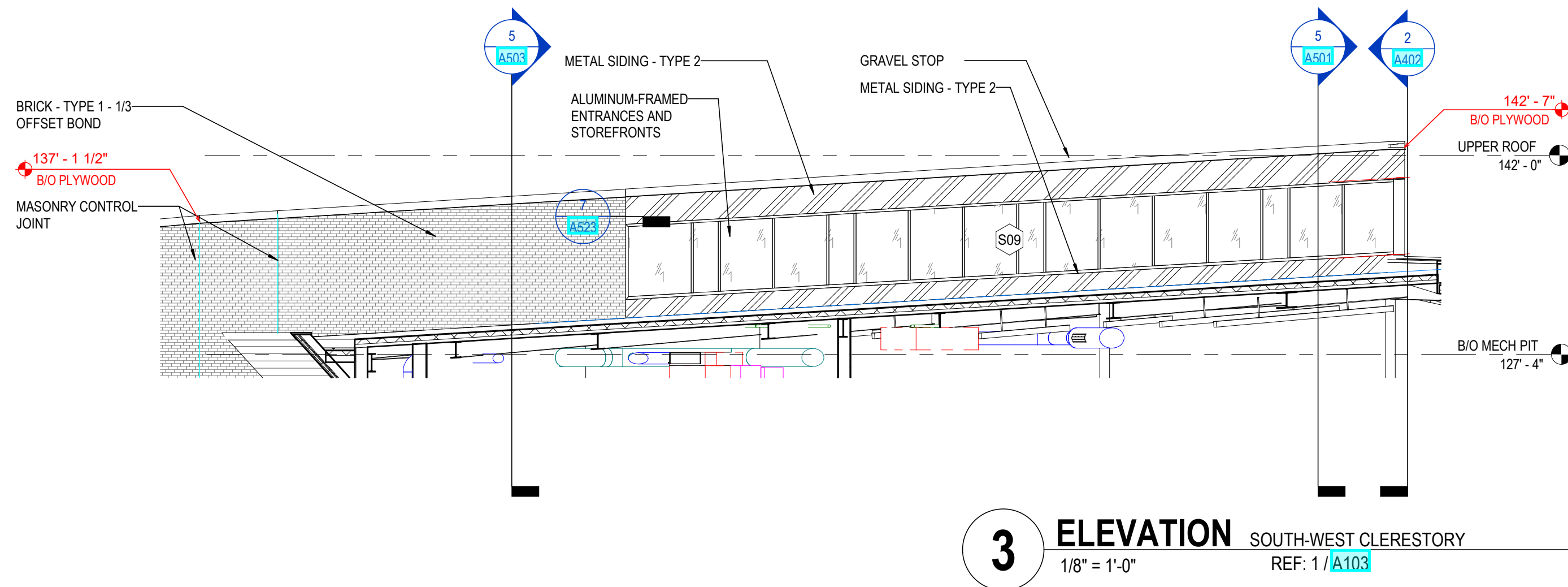
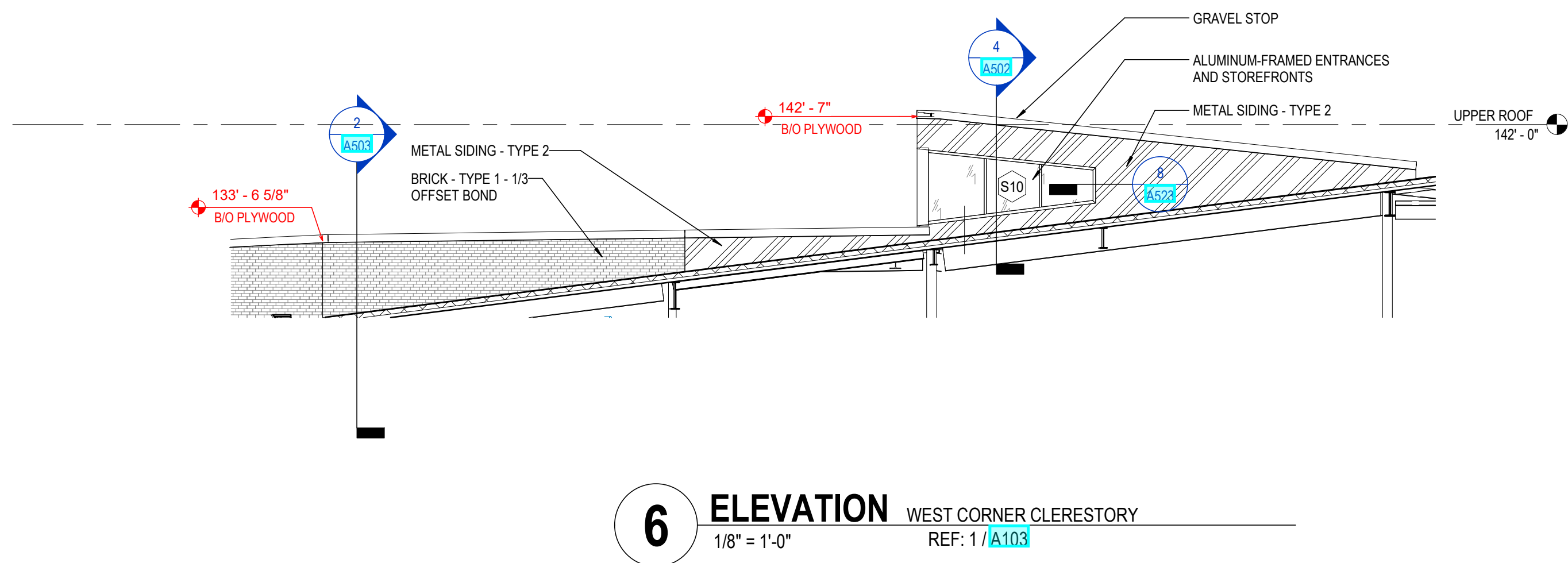
18428

**A302**

PERMIT SET

CURTIS J. MOODY, LIC. #7096  
 EXP. DATE: 12/31/2019





- GENERAL NOTES - EXTERIOR ELEVATIONS**
- SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION AND CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.
  - REFER TO A700 SERIES SHEETS FOR WINDOW, DOOR SCHEDULES & DETAILS.
  - REFER TO REFLECTED CEILING PLANS FOR EXTERIOR SOFFIT INFORMATION.
  - COORDINATE FINAL LOCATIONS OF EXTERIOR HVAC UNITS AND VENTS WITH ARCHITECT PRIOR TO ROUGH IN / INSTALLATION.

- CODED NOTE LEGEND**
- EXTERIOR LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS.
  - ROOF LADDER TO ADJACENT ROOF LEVEL. SEE DETAILS ON SHEET 8/A530 AND SPECIFICATION SECTION 05 00.
  - ENCLOSE STRUCTURAL PIER WITH TPO MEMBRANE.
  - ROOF TOP MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS.
  - CARPET CLEANING HOSE LOCKABLE ACCESS PANELS. PROVIDE ACCESS PANEL AT THE INTERIOR & EXTERIOR SIDE OF WALL WITH A STAINLESS STEEL INNER LINING AND FRAME. SEE SPECIFICATIONS 08 31 13.
  - HOSE BIB. SEE PLUMBING DRAWINGS.
  - GAS METER & PIPING. SEE PLUMBING DRAWINGS.
  - SECONDARY (EMERGENCY) ROOF DRAIN DOWNSPOUT NOZZLE. SEE PLUMBING DRAWINGS FOR DOWNSPOUT NOZZLE DETAIL.
- EXTERIOR LEGEND**
- IG-1 EXTERIOR INSULATED GLAZING
  - IG-1A EXTERIOR INSULATED GLAZING (TEMPERED)
  - IG-2 EXTERIOR INSULATED GLAZING (LAMINATED) **NOT USED**
  - IG-2A EXTERIOR INSULATED GLAZING (TRANSLUCENT TEMPERED)
  - IG-3 EXTERIOR INSULATED GLAZING (SPANDREL - LIGHT GRAY)
  - METAL SIDING TYPE 1
  - METAL SIDING TYPE 2
  - FORMED METAL FABRICATIONS

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
04 00 00 B1A	BRICK - TYPE 1 - 1/3 OFFSET BOND
04 00 00 B1B	BRICK - TYPE 1 - 1/3 CHECKERED BOND
04 00 00 B1C	BRICK - TYPE 1 - SOLDIER BOND
04 00 00 T1	SANDBLASTED CMU - 4"
04 00 00 X17	MASONRY CONTROL JOINT
07 46 10 A1	METAL SIDING - TYPE 1
07 46 10 A2	METAL SIDING - TYPE 2
07 54 23 A2	FULLY ADHERED TPO ROOFING
07 62 00 A1	GUTTER
07 62 00 D1	DOWNSPOUT
07 62 00 F1	GRAVEL STOP
08 11 13	HOLLOW METAL DOORS AND FRAMES
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 42 29	SLIDING AUTOMATIC ENTRANCES
08 81 00 A1	INSULATED GLAZING
10 41 16	EMERGENCY KEY CABINETS
10 73 16	CANOPIES
11 51 16	BOOK DEPOSITORIES
22 14 26 A4	SECONDARY (EMERGENCY) ROOF DRAIN DOWNSPOUT NOZZLE. SEE PLUMBING DRAWINGS FOR DOWNSPOUT NOZZLE DETAIL.

**RFI 67**  
Metal Siding Types

#	DATE	CHANGE DESCRIPTION
1	8/18/2020	BULLETIN 05
2	9/30/2020	RFI 067
3	DATE 15	RFI 069
4	01/29/2021	BULLETIN 06

**CML KARL ROAD BRANCH**  
5590 Hart Road  
Columbus, Ohio 43229  
FOR  
**COLUMBUS METROPOLITAN LIBRARY**

300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215

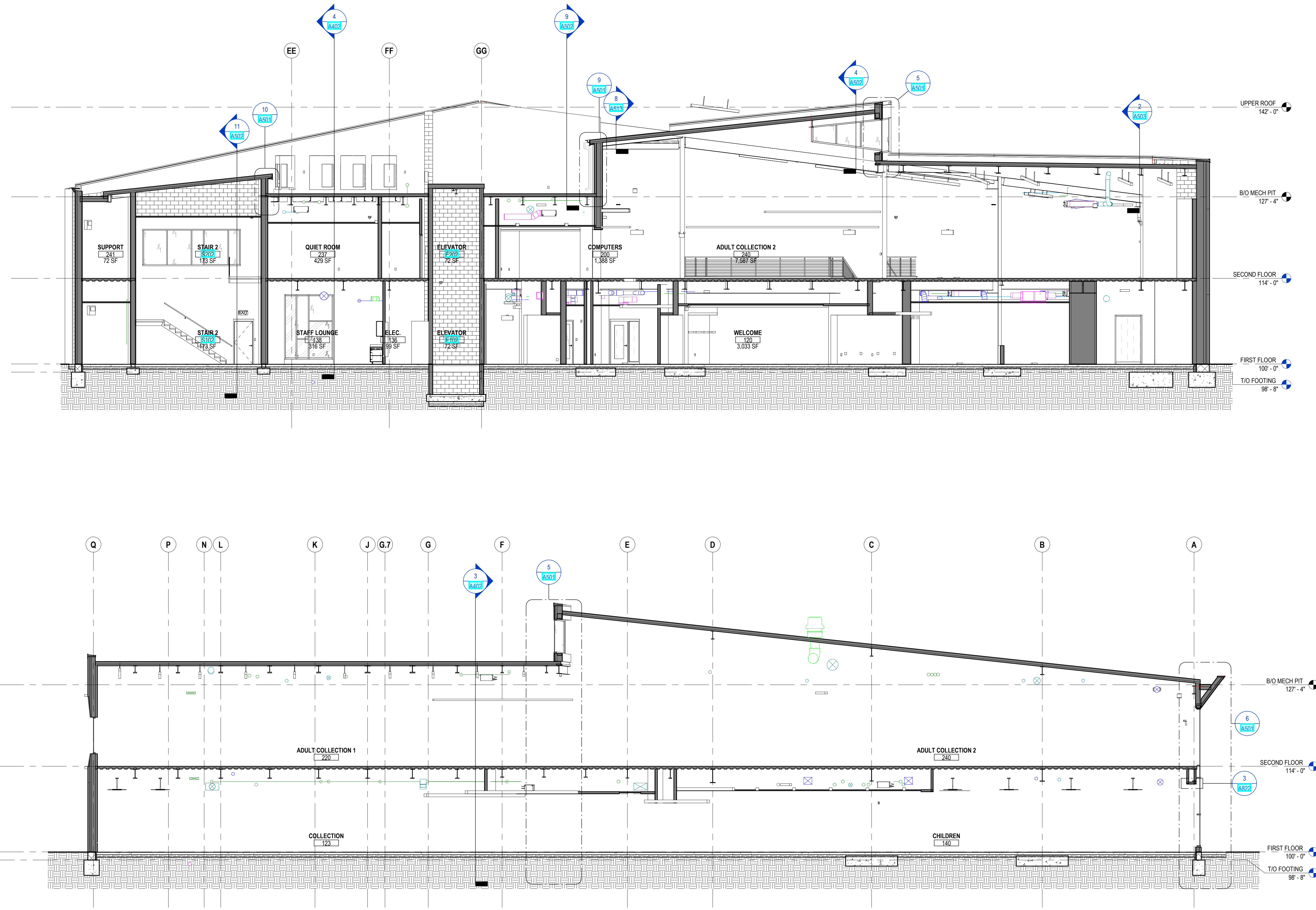
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:  
**EXTERIOR ELEVATIONS - OVERALL**

DATE: FEBRUARY 21, 2020  
DRAWN BY: KG CHECKED BY: HBBL  
18428  
**A303**  
PERMIT SET

CURTIS J. MOODY, LIC. #7096  
EXP. DATE: 12/31/2019





**1 SECTION** NORTH-SOUTH 1  
 1/8" = 1'-0" REF: 1 / A101

**GENERAL NOTES - BUILDING SECTIONS**

1. X

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
1	BRICK ON CMU
2	METAL PANEL ON METAL STUD
3	METAL PANEL ON CMU
4	METAL PANEL ON METAL STUD
5	METAL PANEL ON CMU
6	METAL PANEL ON CMU
7	METAL PANEL ON METAL STUD
8	METAL PANEL ON CMU
9	METAL PANEL ON METAL STUD
10	METAL PANEL ON CMU
11	METAL PANEL ON METAL STUD

**THERMAL RESISTANT COMPONENTS R-VALUE**

THERMAL RESISTANT COMPONENTS	R-VALUE
<b>ROOF</b>	
OUTSIDE AIR FILM	0.17
SINGLE PLY ROOF MEMBRANE	0.00
1/2" THICK COVER BOARD	0.53
4" THICK MINERAL POLYISOCYANURATE RIGID INSULATION	24.00
METAL ROOF DECK	0.00
INSIDE AIR FILM	0.61
<b>TOTAL</b>	<b>25.31</b>
<b>WALLS</b>	
<b>1. BRICK ON 8" STUD</b>	
OUTSIDE AIR FILM	0.17
4" BRICK VENEER	0.44
1" AIR SPACE	1.00
2 1/2" THICK POLYISOCYANURATE RIGID INSULATION	15.00
PLASTIC SHEET AIR BARRIER	0.00
5/8" THICK EXTERIOR SHEATHING	0.87
3 1/2" THICK FOIL FACED GLASS-FIBER BATT INSULATION	11.00
6" METAL STUD	0.00
5/8" GYPSUM WALL BOARD	0.56
INSIDE AIR FILM	0.68
<b>TOTAL</b>	<b>29.52</b>
<b>2. BRICK ON CMU</b>	
OUTSIDE AIR FILM	0.17
4" BRICK VENEER	0.44
1" AIR SPACE	1.00
2 1/2" THICK POLYISOCYANURATE RIGID INSULATION	15.00
FLUID APPLIED AIR BARRIER	0.00
8" CONCRETE MASONRY	1.11
3 5/8" METAL STUD (OR 7/8" RIGID CHANNEL)	0.00
5/8" GYPSUM WALL BOARD (OR 7/8" RIGID CHANNEL)	0.56
INSIDE AIR FILM	0.68
<b>TOTAL</b>	<b>18.96</b>
<b>3. METAL PANEL ON METAL STUD</b>	
OUTSIDE AIR FILM	0.17
METAL WALL PANEL	0.00
SUBGIRT	0.00
PLASTIC SHEET AIR BARRIER	0.00
5/8" EXT GRADE PLYWOOD	0.82
2 1/2" THICK POLYISOCYANURATE RIGID INSULATION	15.00
FLUID APPLIED AIR BARRIER	0.00
8" CONCRETE MASONRY	1.11
3 5/8" METAL STUD (OR 7/8" RIGID CHANNEL)	0.00
5/8" GYPSUM WALL BOARD	0.56
INSIDE AIR FILM	0.68
<b>TOTAL</b>	<b>16.93</b>
<b>4. METAL PANEL ON CMU</b>	
OUTSIDE AIR FILM	0.17
METAL WALL PANEL	0.00
SUBGIRT	0.00
2 1/2" THICK POLYISOCYANURATE RIGID INSULATION	15.00
FLUID APPLIED AIR BARRIER	0.00
8" CONCRETE MASONRY	1.11
3 5/8" METAL STUD (OR 7/8" RIGID CHANNEL)	0.00
5/8" GYPSUM WALL BOARD	0.56
INSIDE AIR FILM	0.68
<b>TOTAL</b>	<b>17.52</b>

#	DATE	CHANGE DESCRIPTION

**CML KARL ROAD BRANCH**  
 5590 Hart Road  
 Columbus, Ohio 43229  
 FOR  
**COLUMBUS METROPOLITAN LIBRARY**

**MOODY-NOLAN**  
 300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

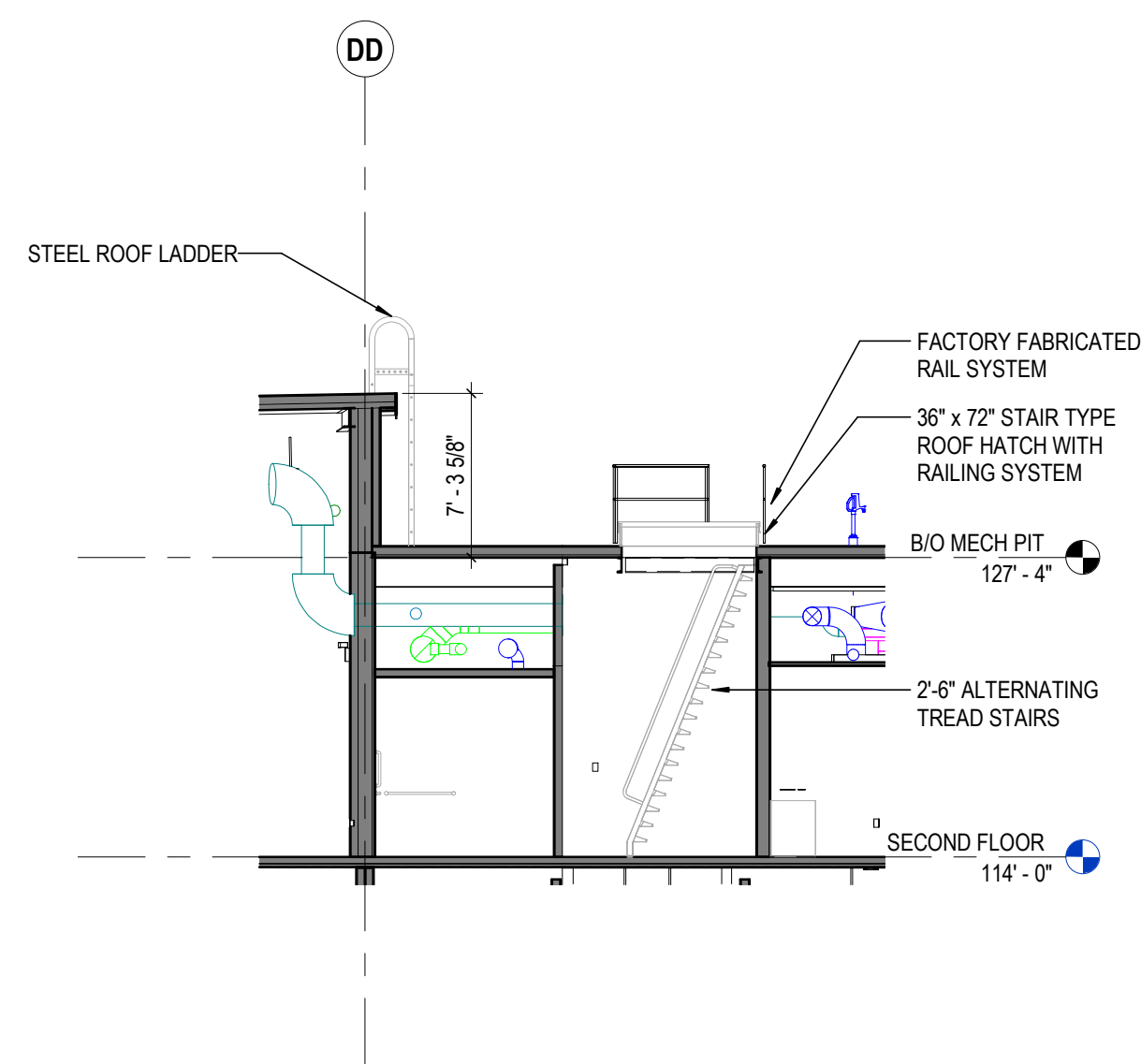
DRAWING TITLE: **BUILDING SECTIONS**

STATE OF OHIO  
 CURTIS J. MOODY  
 REGISTERED ARCHITECT

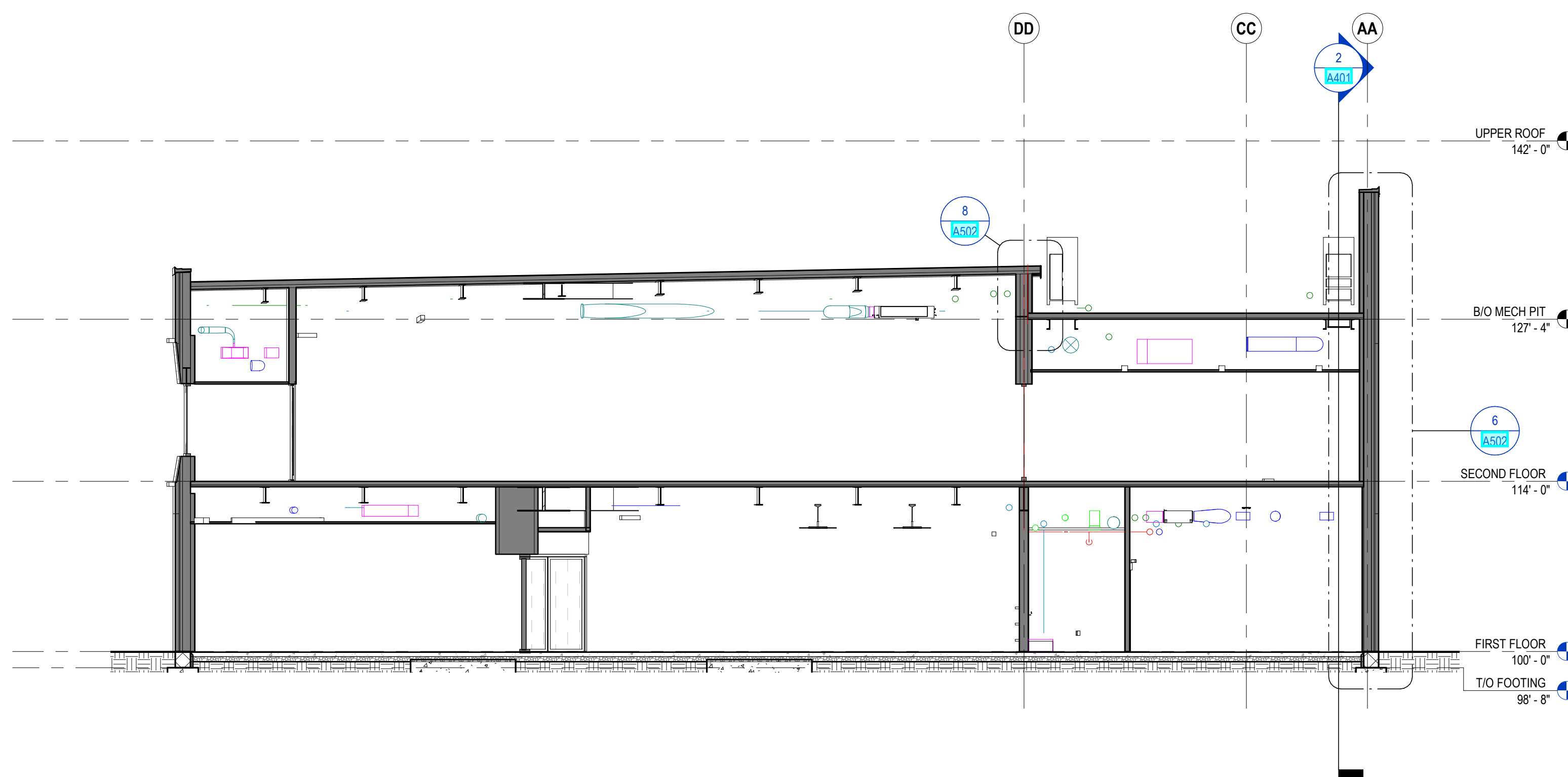
FEBRUARY 21, 2020  
 DRAWN BY: KG CHECKED BY: HBBL  
 18428  
**A401**  
 PERMIT SET

CURTIS J. MOODY, LIC. #7096  
 EXP. DATE: 12/31/2019

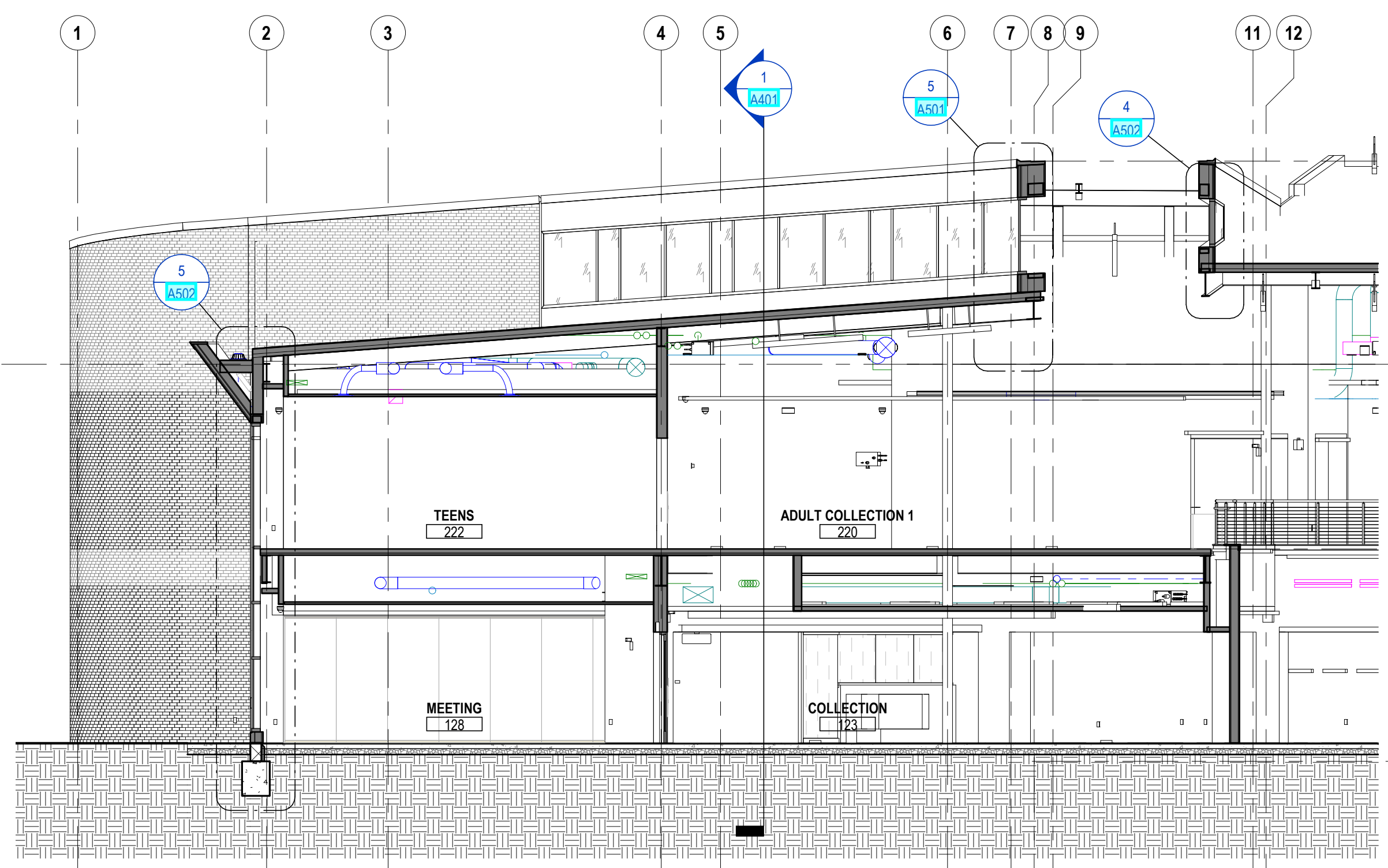




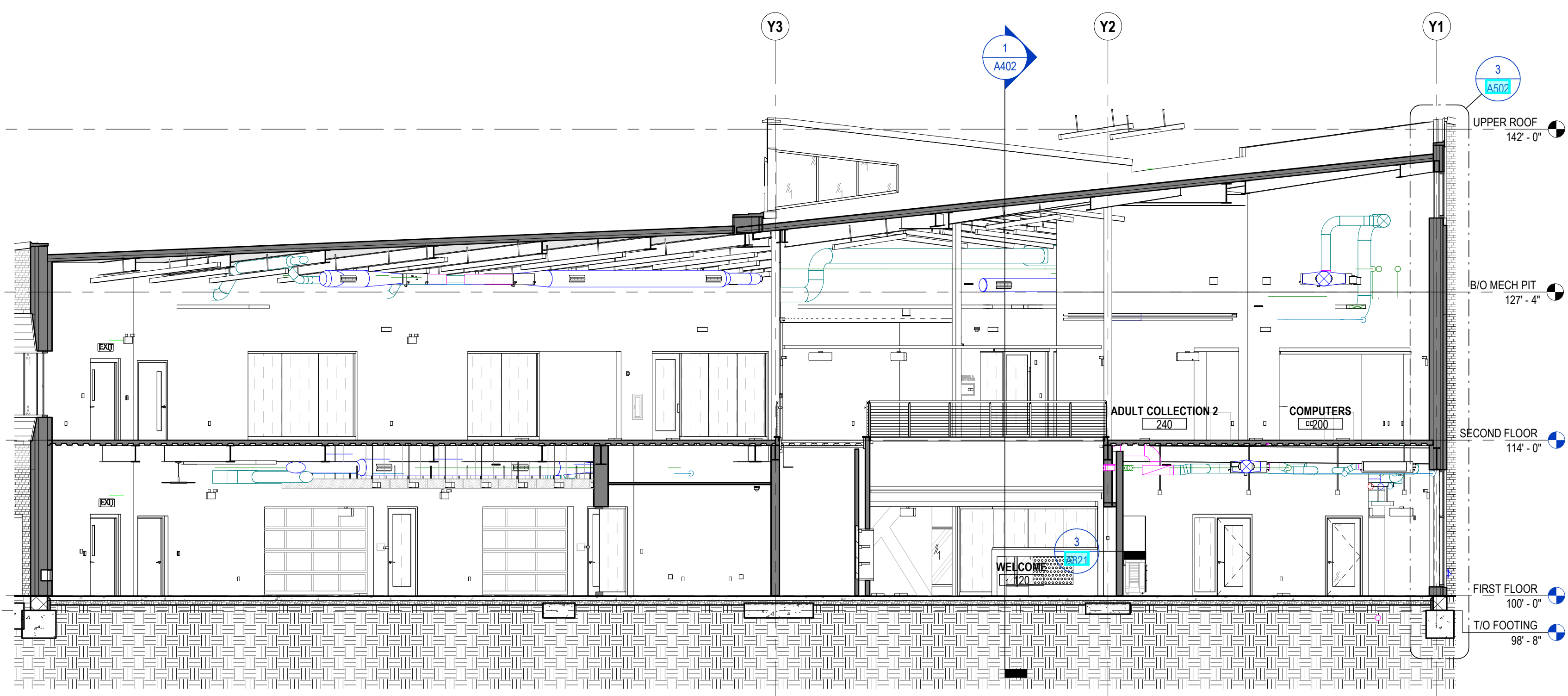
**5 SECTION** ROOF ACCESS  
 1/8" = 1'-0" REF: 1 / A102



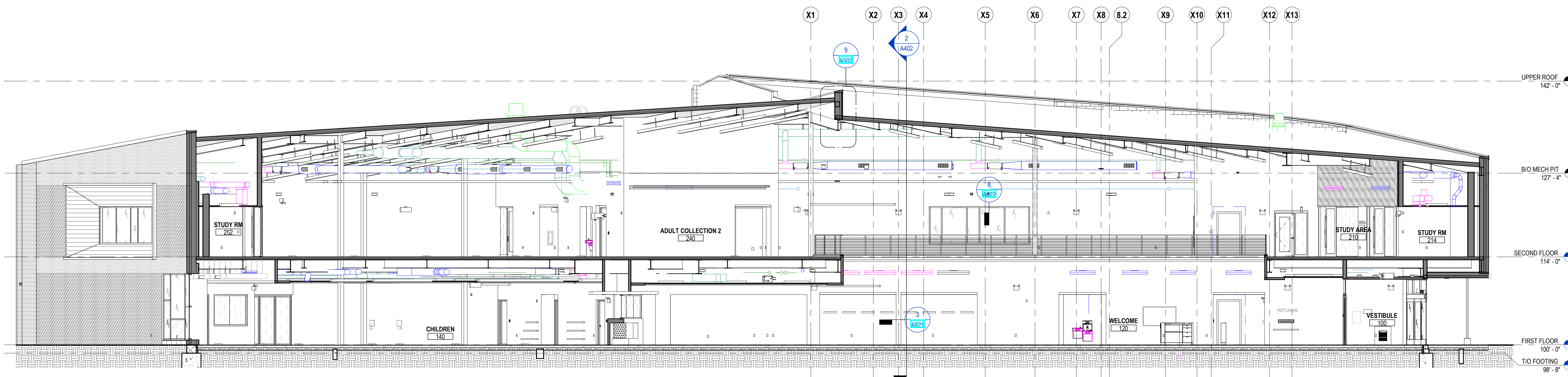
**4 SECTION** EAST-WEST ALIGNED 2a  
 1/8" = 1'-0" REF: 1 / A101



**3 SECTION** EAST-WEST 1  
 1/8" = 1'-0" REF: 1 / A101



**2 SECTION** EAST-WEST 2  
 1/8" = 1'-0" REF: 1 / A101



**1 SECTION** EAST-WEST ALIGNED  
 1/8" = 1'-0" REF: 1 / A101

**GENERAL NOTES - BUILDING SECTIONS**

1. X

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
05 50 00 K1	STEEL ROOF LADDER
05 50 00 T1	2'-6" ALTERNATING TREAD STAIRS
07 72 33 A3	36" x 72" STAIR TYPE ROOF HATCH WITH RAILING SYSTEM
07 72 33 C1	FACTORY FABRICATED RAIL SYSTEM

**THERMAL RESISTANT COMPONENTS R-VALUE**

ROOF	R-VALUE
OUTSIDE AIR FILM	0.17
SINGLE PLY ROOF MEMBRANE	0.00
1/2" THICK COVER BOARD	0.53
4" THICK MINERAL POLYISOCYANURATE RIGID INSULATION	24.00
METAL ROOF DECK	0.00
INSIDE AIR FILM	0.61
<b>TOTAL</b>	<b>25.31</b>

WALLS	R-VALUE
<b>1. BRICK ON 8" STUD</b>	
OUTSIDE AIR FILM	0.17
4" BRICK VENEER	0.44
1" AIR SPACE	1.00
2 1/2" THICK POLYISOCYANURATE RIGID INSULATION	15.00
PLASTIC SHEET AIR BARRIER	0.00
5/8" THICK EXTERIOR SHEATHING	0.87
3 1/2" THICK FOIL FACED GLASS-FIBER BATT INSULATION	11.00
6" METAL STUD	0.00
5/8" GYPSUM WALL BOARD	0.56
INSIDE AIR FILM	0.68
<b>TOTAL</b>	<b>29.52</b>
<b>2. BRICK ON CMU</b>	
OUTSIDE AIR FILM	0.17
4" BRICK VENEER	0.44
1" AIR SPACE	1.00
2 1/2" THICK POLYISOCYANURATE RIGID INSULATION	15.00
FLUID APPLIED AIR BARRIER	0.00
8" CONCRETE MASONRY	1.11
3 5/8" METAL STUD (OR 7/8" RIGID CHANNEL)	0.00
5/8" GYPSUM WALL BOARD (OR 7/8" RIGID CHANNEL)	0.56
INSIDE AIR FILM	0.68
<b>TOTAL</b>	<b>18.96</b>
<b>3. METAL PANEL ON METAL STUD</b>	
OUTSIDE AIR FILM	0.17
METAL WALL PANEL	0.00
SUBGIRT	0.00
PLASTIC SHEET AIR BARRIER	0.00
5/8" EXT GRADE PLYWOOD	0.82
2 1/2" THICK POLYISOCYANURATE RIGID INSULATION	15.00
6" METAL STUD	0.00
5/8" GYPSUM WALL BOARD	0.56
INSIDE AIR FILM	0.68
<b>TOTAL</b>	<b>16.93</b>
<b>4. METAL PANEL ON CMU</b>	
OUTSIDE AIR FILM	0.17
METAL WALL PANEL	0.00
SUBGIRT	0.00
2 1/2" THICK POLYISOCYANURATE RIGID INSULATION	15.00
FLUID APPLIED AIR BARRIER	0.00
8" CONCRETE MASONRY	1.11
3 5/8" METAL STUD (OR 7/8" RIGID CHANNEL)	0.00
5/8" GYPSUM WALL BOARD	0.56
INSIDE AIR FILM	0.68
<b>TOTAL</b>	<b>17.52</b>

#	DATE	CHANGE DESCRIPTION

**CML KARL ROAD BRANCH**  
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 Columbus, Ohio 43229  
 FOR  
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300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

DRAWING TITLE: **BUILDING SECTIONS**

DATE: **FEBRUARY 21, 2020**

DRAWN BY: **KG** CHECKED BY: **HBL**

PROJECT NO: **18428**

**A402**

PERMIT SET

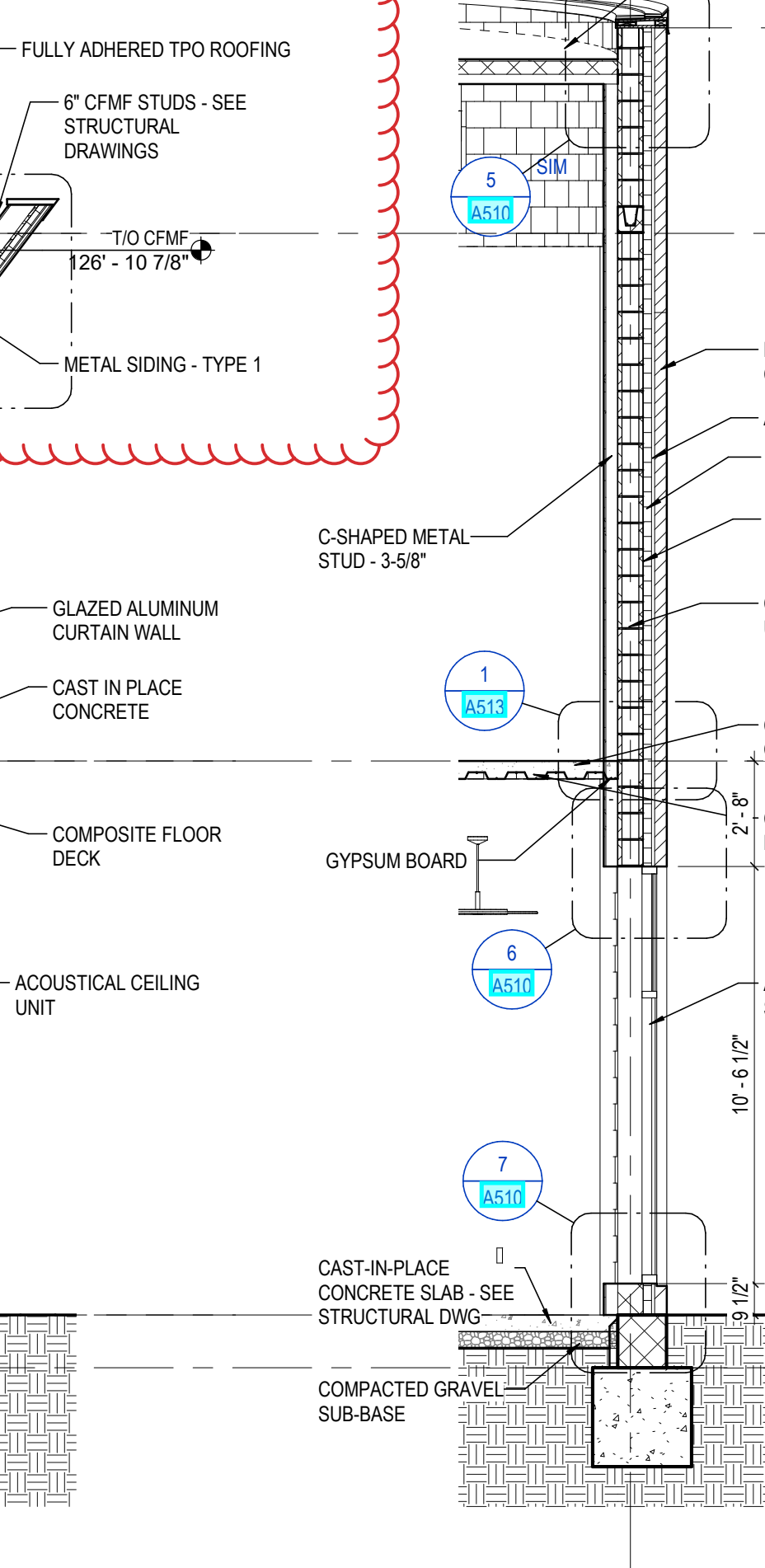
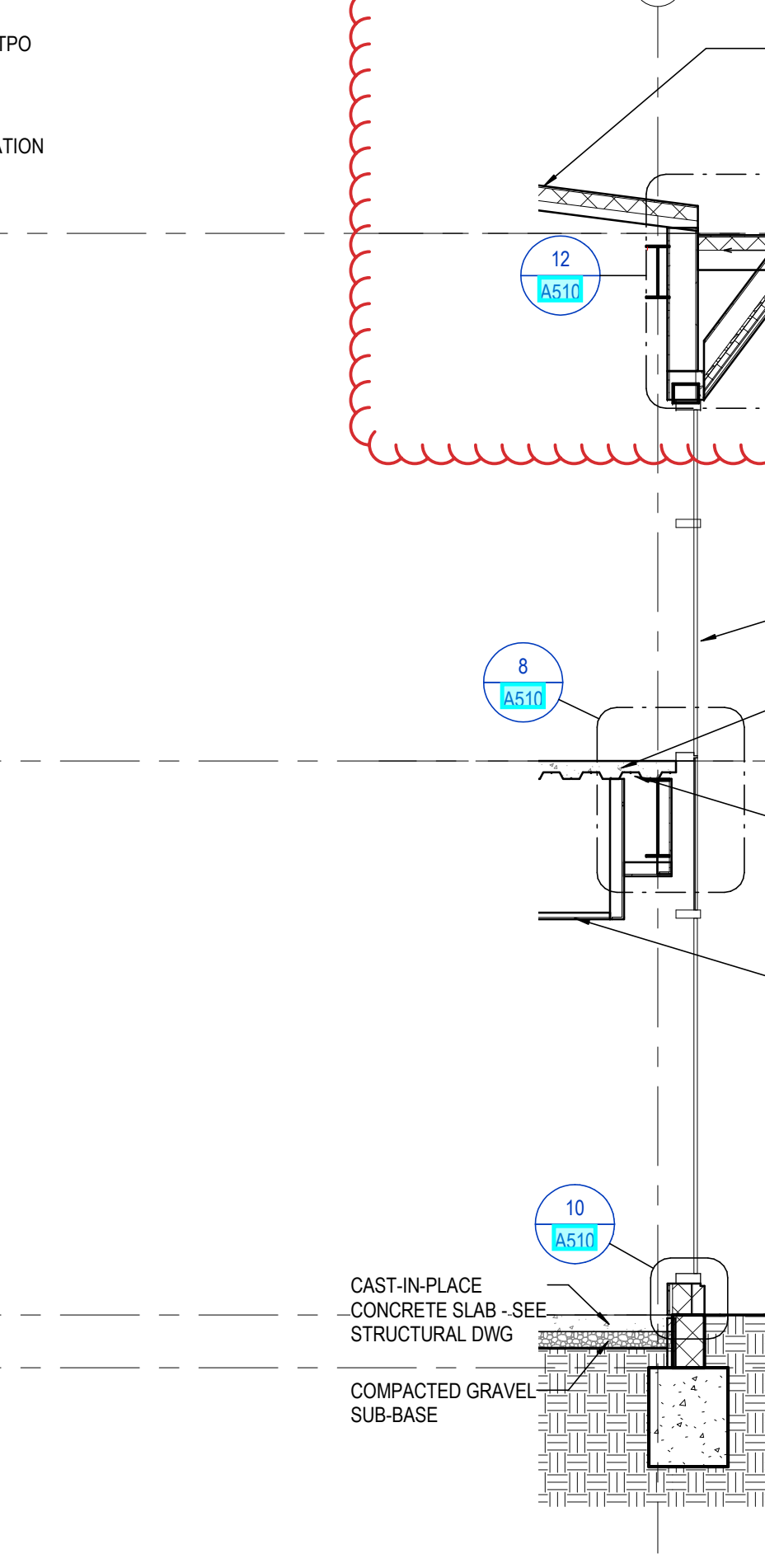
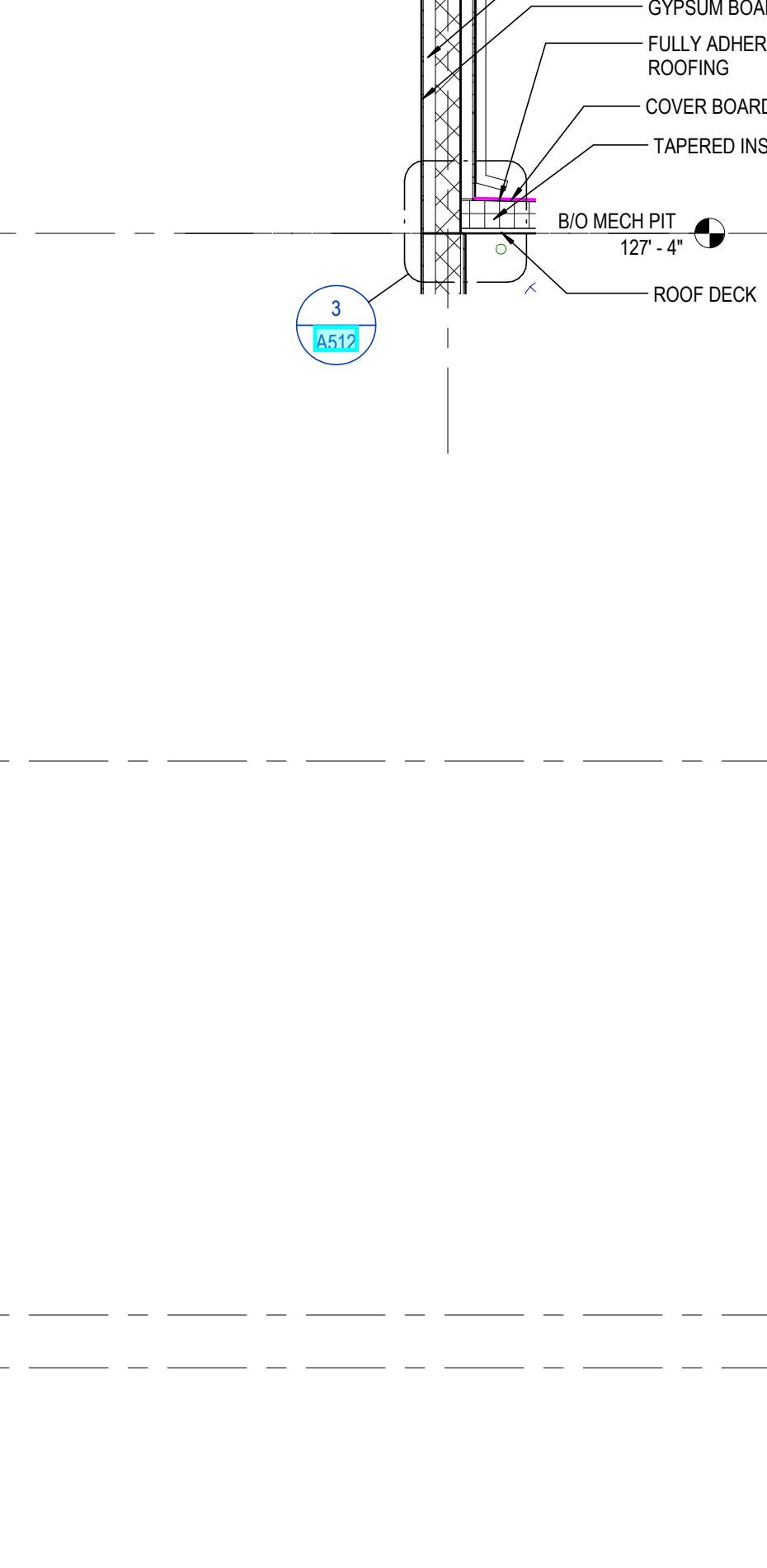
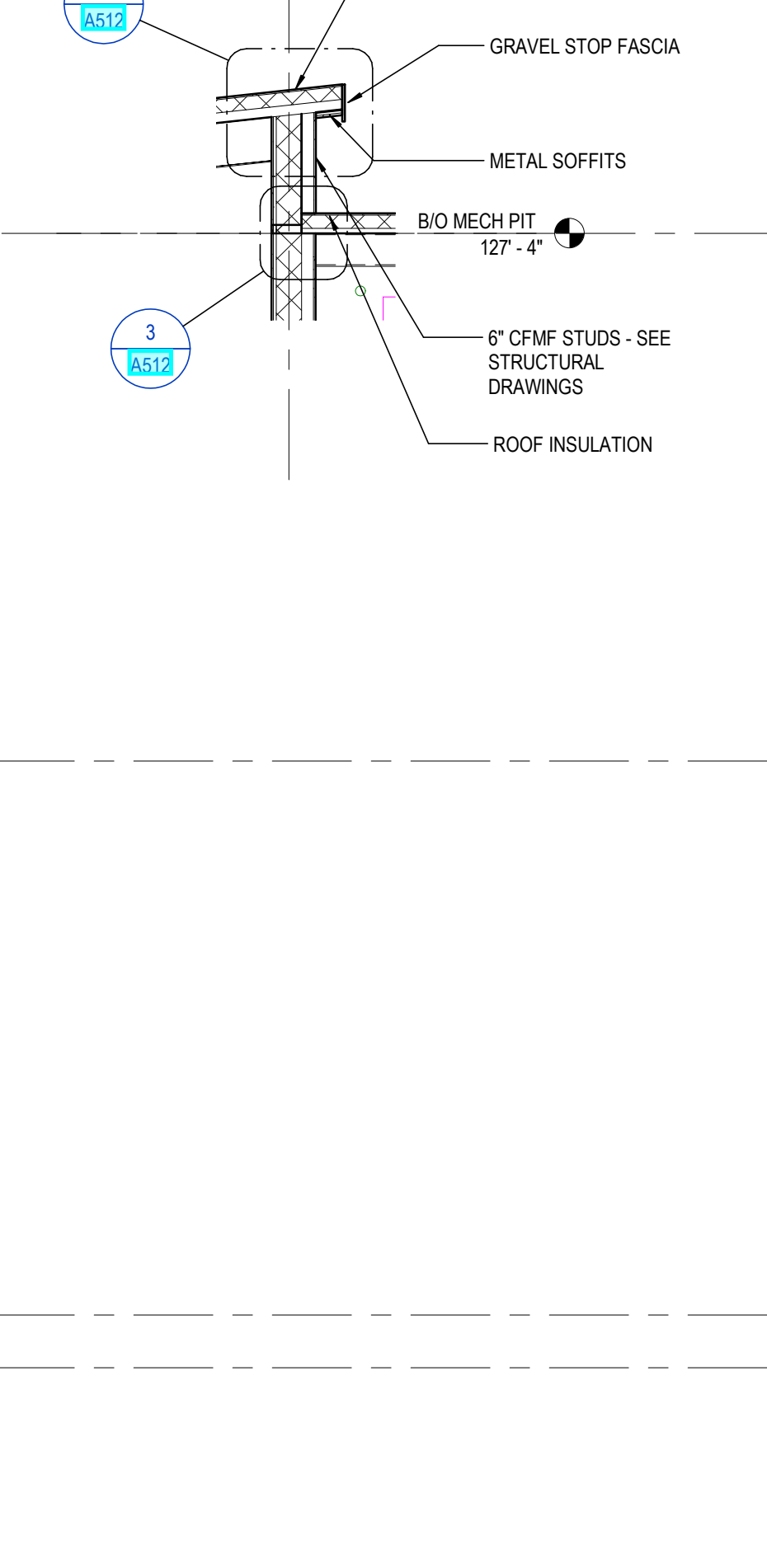
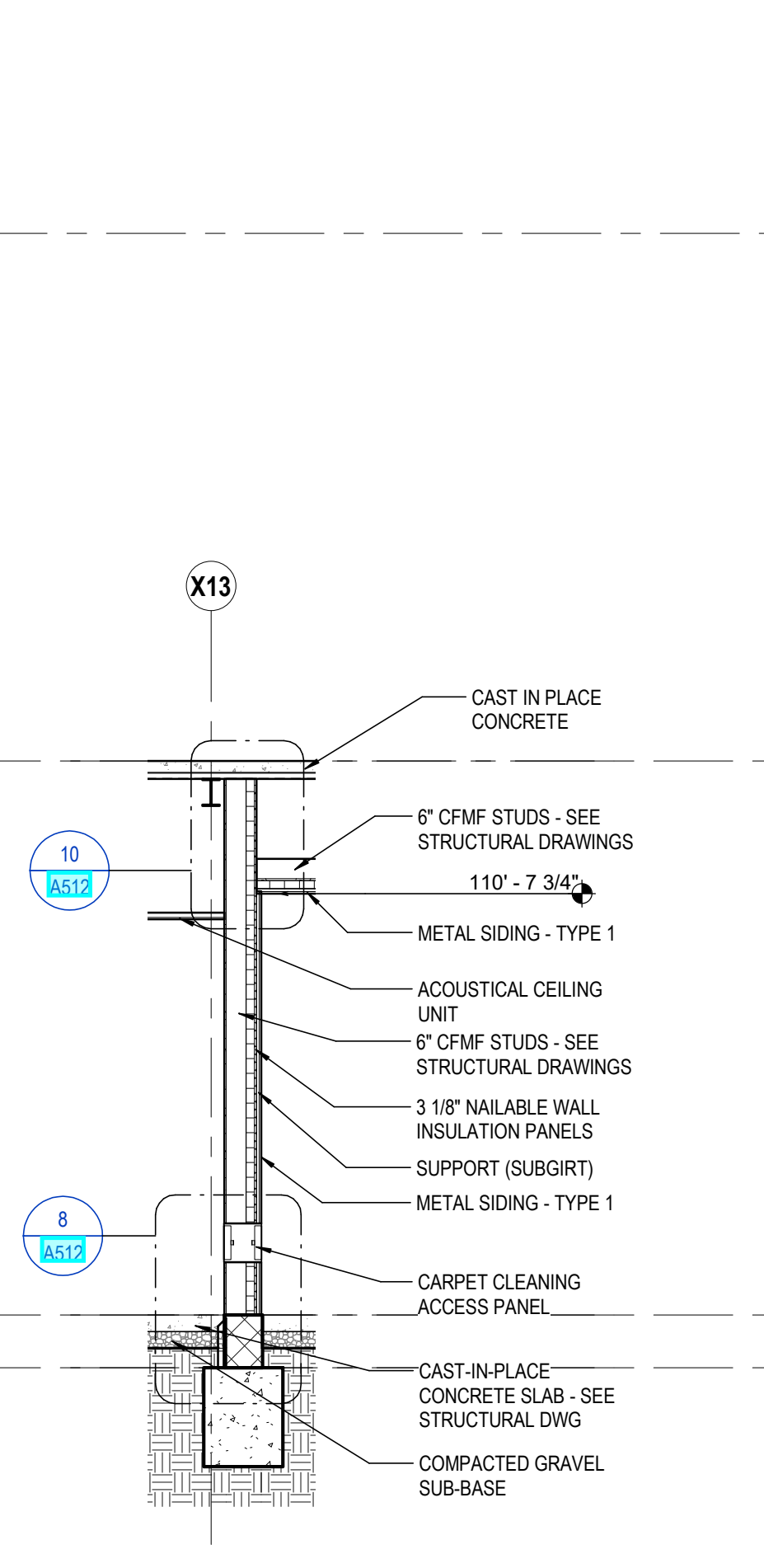
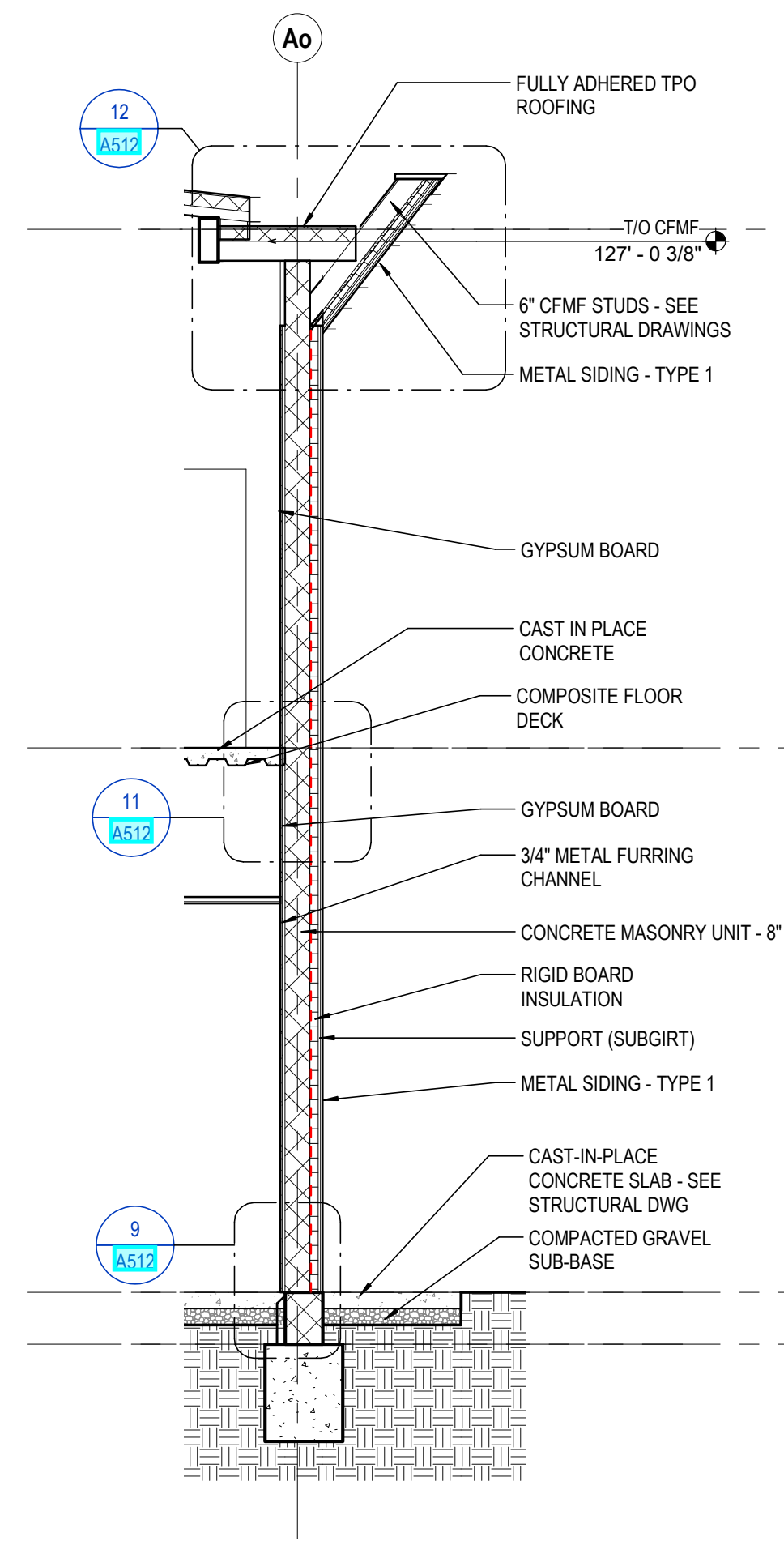
CURTIS J. MOODY, LIC. #7096  
 EXP. DATE: 12/31/2019



1. X

### KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
03.30.00.A1	CAST IN PLACE CONCRETE
03.30.00.D1	CAST-IN-PLACE CONCRETE SLAB - SEE STRUCTURAL DWG
04.00.00.B1A	BRICK - TYPE 1 - 1/3 OFFSET BOND
04.00.00.B1B	BRICK - TYPE 1 - 1/3 CHECKERED BOND
04.00.00.B1C	BRICK - TYPE 1 - SOLDIER BOND
04.00.00.D4	CONCRETE MASONRY UNIT - 8"
04.00.00.T1	SANDBLASTED CMU - 4"
04.00.00.21	AIR SPACE
05.31.00.A1	ROOF DECK
05.31.00.B2	COMPOSITE FLOOR DECK
05.40.00.A4	C-SHAPED METAL STUD - 3.58"
05.40.00.A8	6" CFMF STUDS - SEE STRUCTURAL DRAWINGS
07.21.00.A1	RIGID BOARD INSULATION
07.22.19.A1	3 1/8" NAILABLE WALL INSULATION PANELS
07.28.16	BELOW-GRADE VAPOR BARRIERS
07.27.26	FLUID-APPLIED MEMBRANE AIR BARRIER
07.42.13	METAL WALL PANEL
07.42.13.D1	SUPPORT (SUBGIRT)
07.46.10.A1	METAL SIDING - TYPE 1
07.46.10.A2	METAL SIDING - TYPE 2
07.54.23.A2	FULLY ADHERED TPO ROOFING
07.54.23.B1	ROOF INSULATION
07.54.23.B3	COVER BOARD
07.54.23.B4	TAPERED INSULATION
07.62.00.A1	GUTTER
07.62.00.D1	DOWNSPOUT
07.62.00.F1	GRAVEL STOP
07.62.00.H1	GRAVEL STOP FASCIA
08.11.13	HOLLOW METAL DOORS AND FRAMES
08.31.13.A1	CARPET CLEANING ACCESS PANEL
08.41.13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08.41.13.B1	ALUMINUM STOREFRONT SYSTEM
08.44.13	GLAZED ALUMINUM CURTAIN WALL
08.81.00.A1	INSULATED GLAZING
09.21.16.A8	3/4" METAL FURRING CHANNEL
09.21.16.G1	RIGID FURRING CHANNEL - HAT-SHAPED
09.21.16.M1	GYPNUM BOARD
09.21.16.M14	GYPNUM BOARD CEILING
09.51.13.B	ACOUSTICAL CEILING UNIT
09.54.25	METAL SOFFITS
31.30.00.B2	COMPACTED GRAVEL SUB-BASE



12 SECTION WALL SECTION - 12 REF: 1/A101

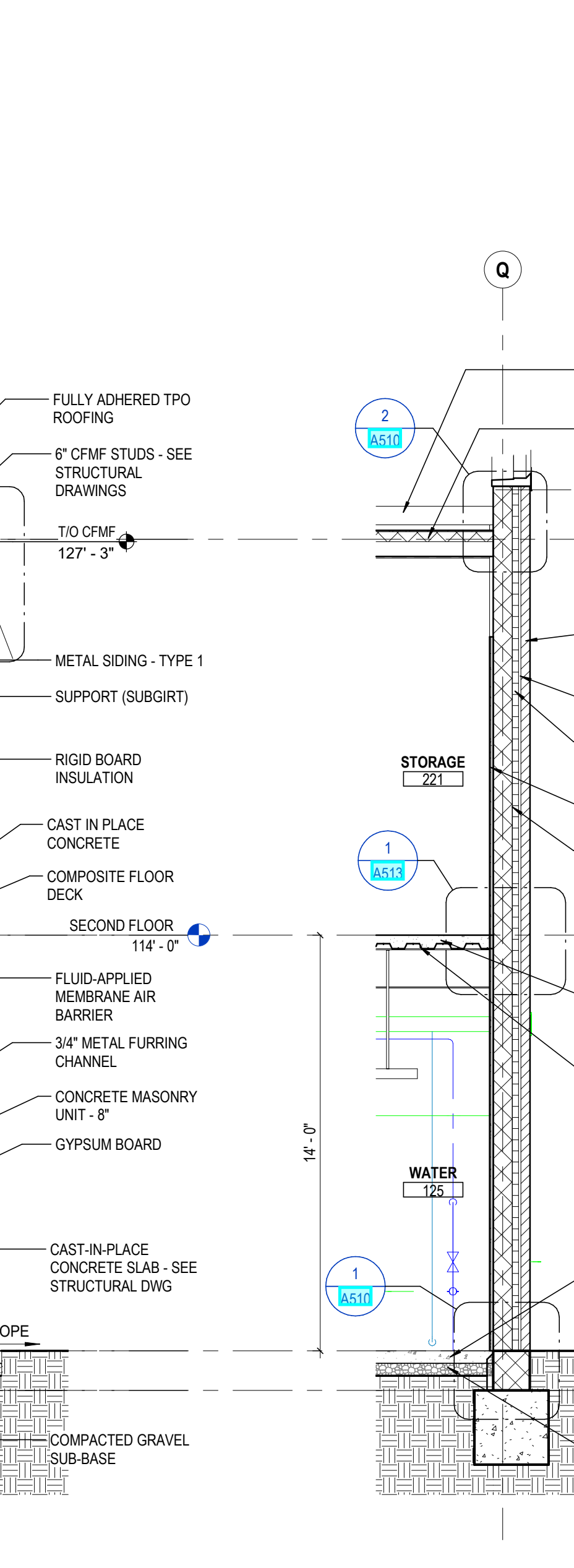
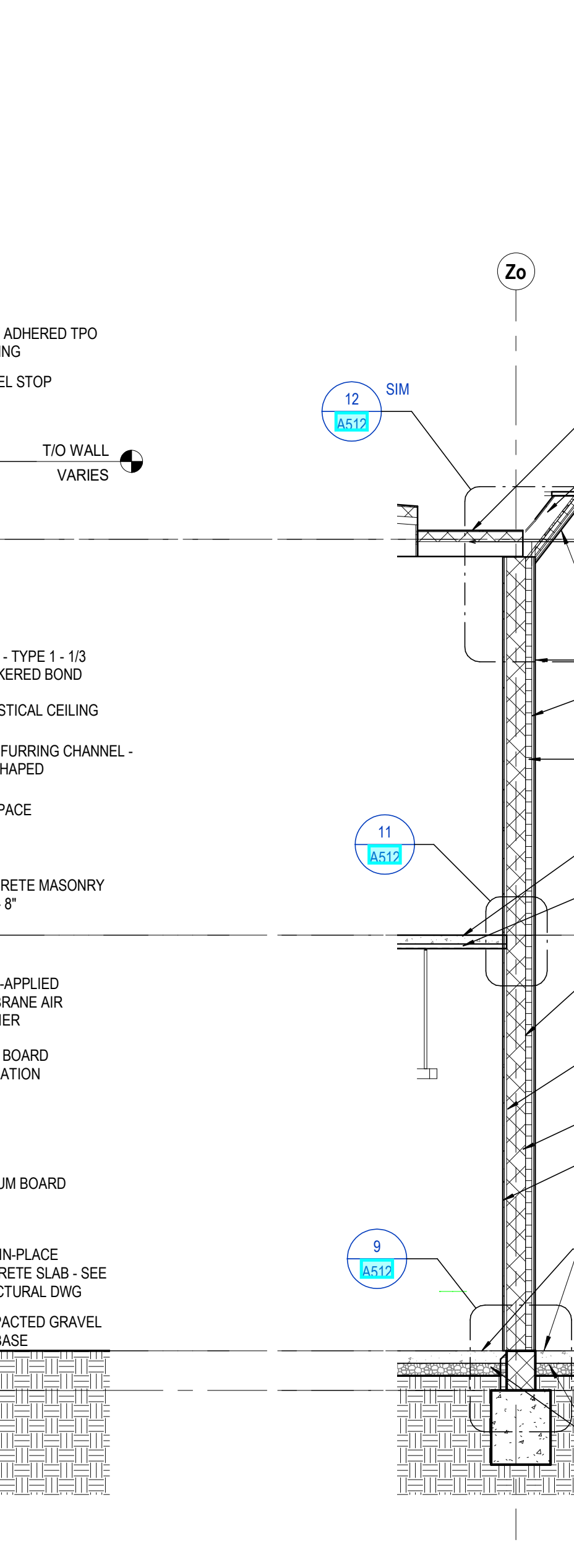
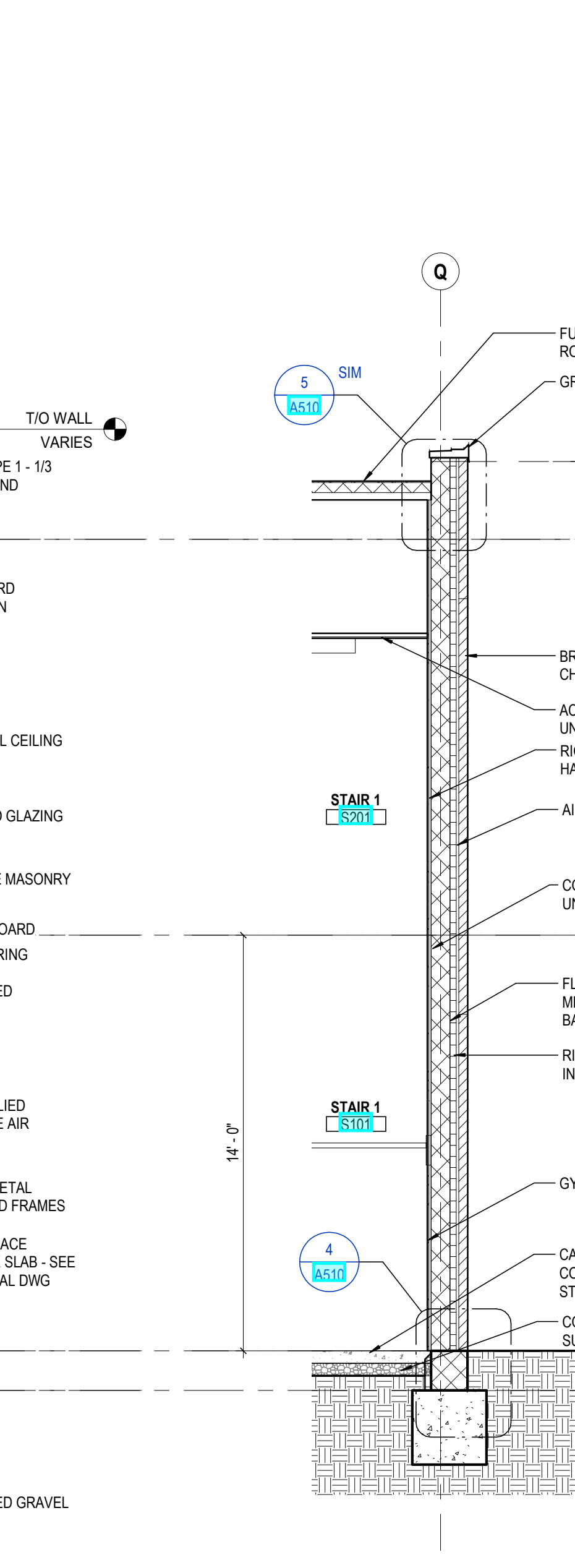
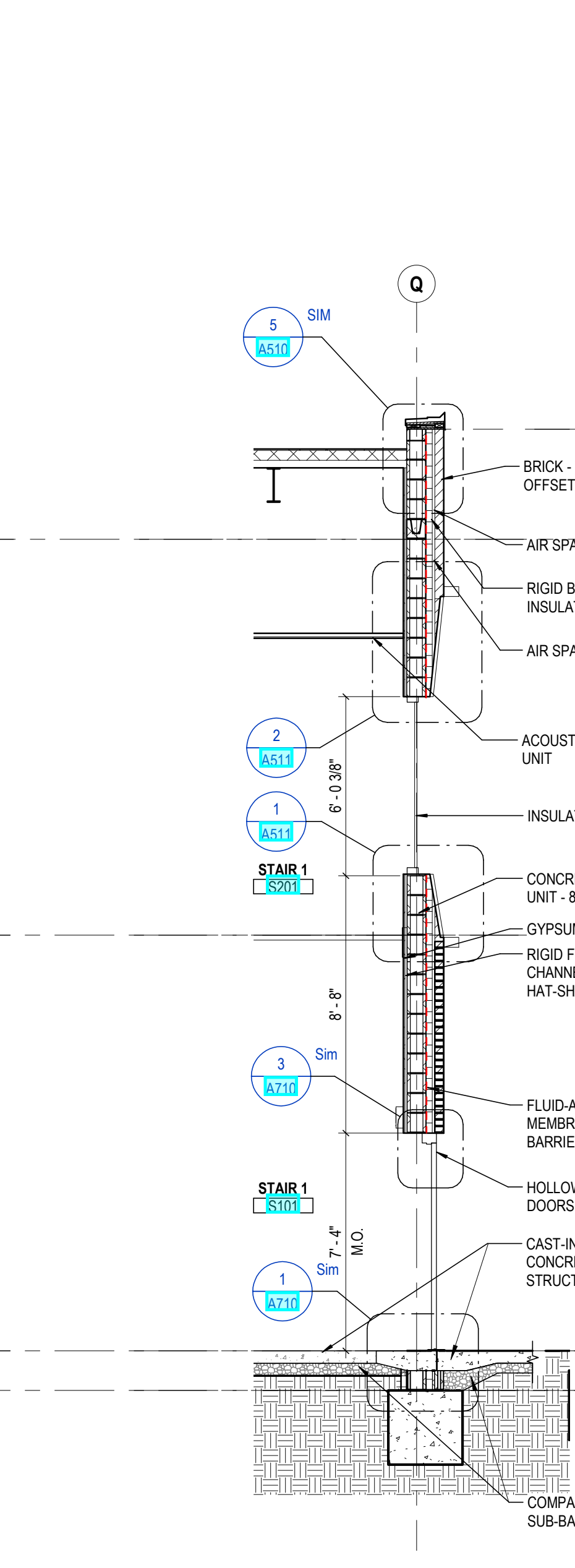
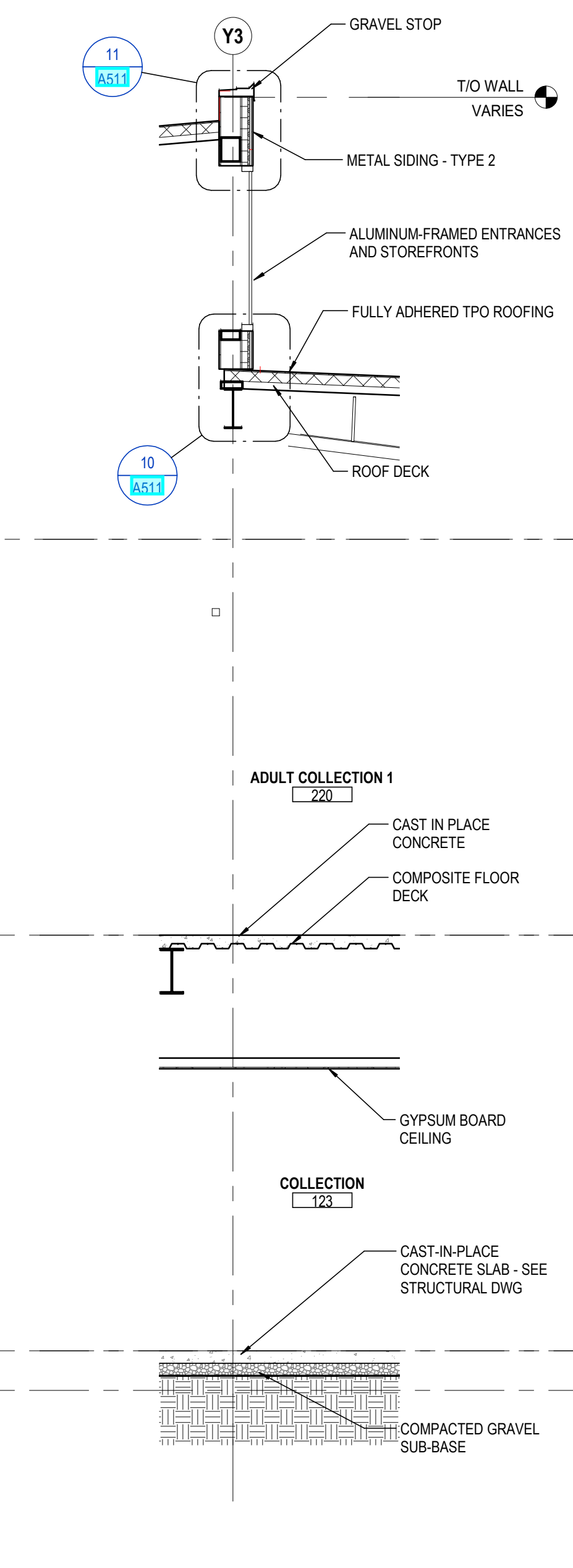
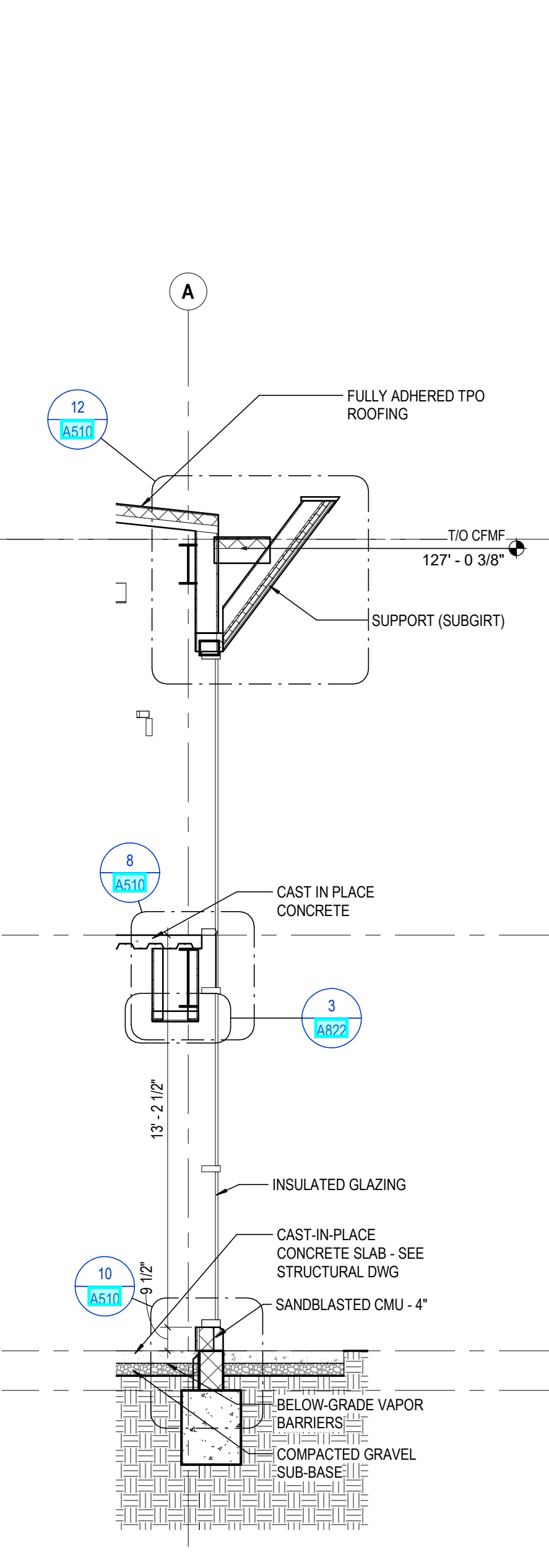
11 SECTION WALL SECTION - 11 REF: 1/A101

10 SECTION WALL SECTION - 10 REF: 1/A103

9 SECTION WALL SECTION - 9 REF: 1/A103

8 SECTION WALL SECTION - 8 REF: 1/A101

7 SECTION WALL SECTION - 7 REF: 1/A101



6 SECTION WALL SECTION - 6 REF: 1/A101

5 DETAIL WALL SECTION - 5 REF: 1/A102

4 SECTION WALL SECTION - 4 REF: 1/A101

3 SECTION WALL SECTION - 3 REF: 1/A101

2 SECTION WALL SECTION - 2 REF: 1/A101

1 SECTION WALL SECTION - 1 REF: 1/A101

#	DATE	CHANGE DESCRIPTION

**CML KARL ROAD BRANCH**  
5590 Hart Road  
Columbus, Ohio 43229  
FOR  
**COLUMBUS METROPOLITAN LIBRARY**

300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:  
**WALL SECTIONS**

STATE OF OHIO  
REGISTERED ARCHITECT  
CURTIS J. MOODY, LIC. #7066  
EXP. DATE: 12/31/2019

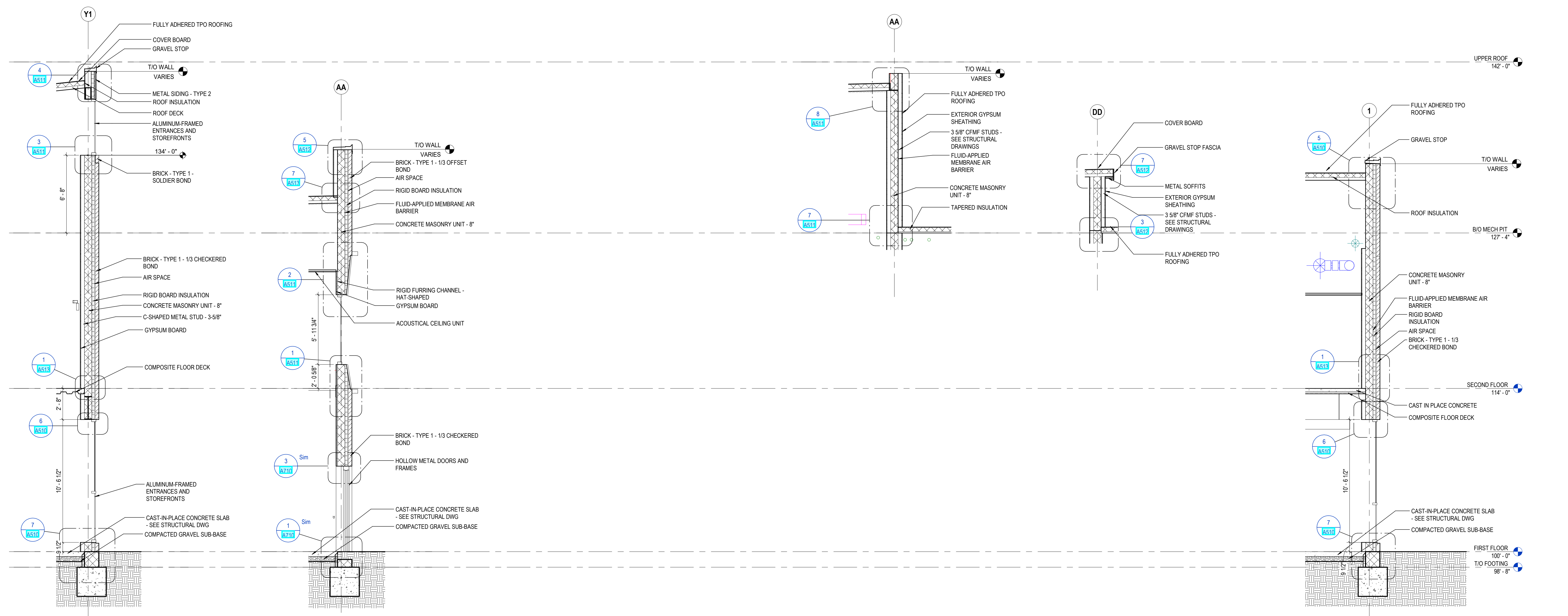
FEBRUARY 21, 2020  
DRAWN BY: KG CHECKED BY: HBL  
18428  
**A501**  
PERMIT SET



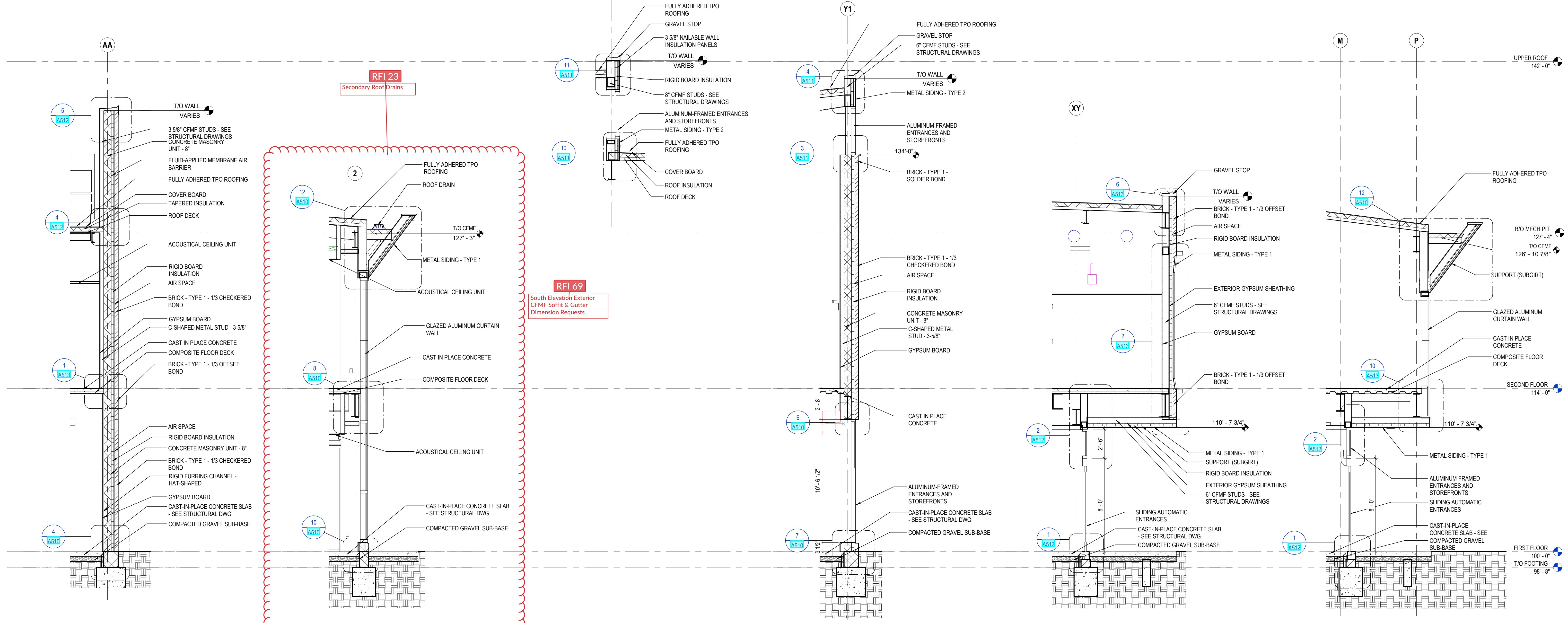
1. X

KEY VALUE	KEYNOTE TEXT
03 30 00 A1	CAST-IN-PLACE CONCRETE
03 30 00 D1	CAST-IN-PLACE CONCRETE SLAB - SEE STRUCTURAL DWG
04 00 00 B1A	BRICK - TYPE 1 - 1/3 OFFSET BOND
04 00 00 B1B	BRICK - TYPE 1 - 1/3 CHECKERED BOND
04 00 00 B1C	BRICK - TYPE 1 - SOLDIER BOND
04 00 00 D4	CONCRETE MASONRY UNIT - 8"
04 00 00 Z1	AIR SPACE
05 31 00 A1	ROOF DECK
05 31 00 B2	COMPOSITE FLOOR DECK
05 40 00 A4	C-SHAPED METAL STUD - 3-5/8"
05 40 00 A6	3 5/8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 40 00 A8	8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 40 00 A10	8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
07 21 00 A1	RIGID BOARD INSULATION
07 22 19 A2	3 5/8" NAILABLE WALL INSULATION PANELS
07 27 26	FLUID-APPLIED MEMBRANE AIR BARRIER
07 42 13 D1	SUPPORT (SUBGIRT)
07 46 10 A1	METAL SIDING - TYPE 1
07 46 10 A2	METAL SIDING - TYPE 2
07 54 23 A2	FULLY ADHERED TPO ROOFING
07 54 23 B1	ROOF INSULATION
07 54 23 B3	COVER BOARD
07 54 23 B4	TAPERED INSULATION
07 62 00 F1	GRAVEL STOP
07 62 00 H1	GRAVEL STOP FASCIA
08 11 13	HOLLOW METAL DOORS AND FRAMES
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 42 29	SLIDING AUTOMATIC ENTRANCES
08 44 13	GLAZED ALUMINUM CURTAIN WALL
09 21 16 G1	RIGID FURRING CHANNEL - HAT-SHAPED
09 21 16 M1	GYPSUM BOARD
09 21 16 M5	EXTERIOR GYPSUM SHEATHING
09 51 13 B	ACOUSTICAL CEILING UNIT
09 54 25	METAL SOFFITS
22 14 26 A1	ROOF DRAIN
31 30 00 B2	COMPACTED GRAVEL SUB-BASE

KEYNOTE LEGEND



**12 SECTION** WALL SECTION - 24 REF: 1 / A1011  
**11 SECTION** WALL SECTION - 23 REF: 1 / A1011  
**9 SECTION** WALL SECTION - 21 REF: 1 / A1013  
**8 SECTION** WALL SECTION - 20 REF: 1 / A1013  
**7 SECTION** WALL SECTION - 19 REF: 1 / A1011



**6 SECTION** WALL SECTION - 18a REF: 4 / A402  
**5 SECTION** WALL SECTION - 17 REF: 1 / A1011  
**4 SECTION** WALL SECTION - 16 REF: 1 / A1013  
**3 SECTION** WALL SECTION - 15 REF: 2 / A402  
**2 SECTION** WALL SECTION - 14 REF: 1 / A1011  
**1 SECTION** WALL SECTION - 13 REF: 1 / A1011

#	DATE	CHANGE DESCRIPTION

**CML KARL ROAD BRANCH**  
 5590 Hart Road  
 Columbus, Ohio 43229  
 FOR  
**COLUMBUS METROPOLITAN LIBRARY**

300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

DRAWING TITLE:  
**WALL SECTIONS**

FEBRUARY 21, 2020  
 DRAWN BY: KG CHECKED BY: HBBL  
 18428  
**A502**  
 PERMIT SET

CURTIS J. MOODY, LIC. #7066  
 EXP. DATE: 12/31/2019

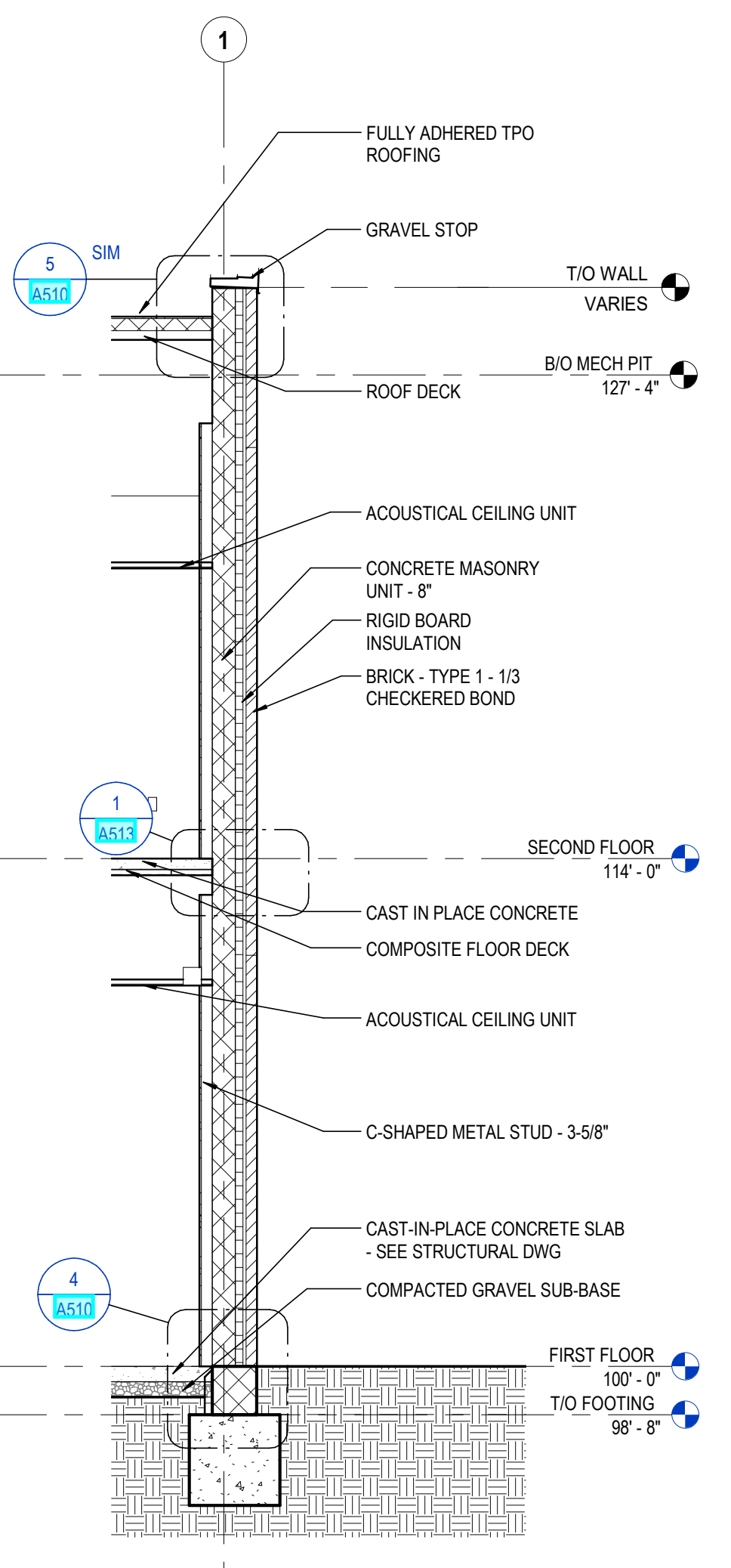
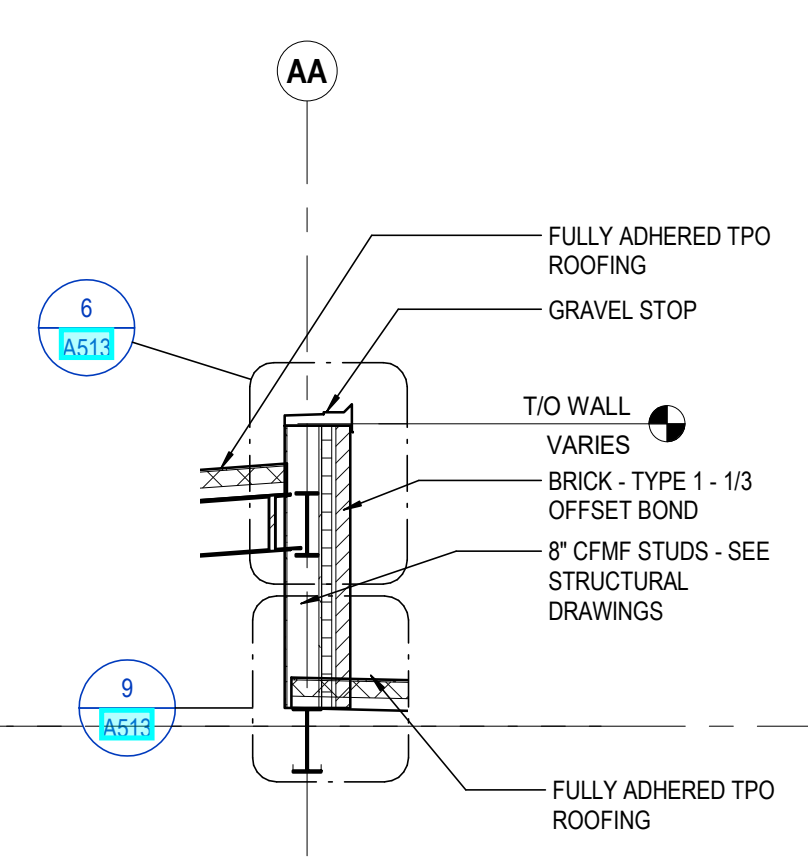
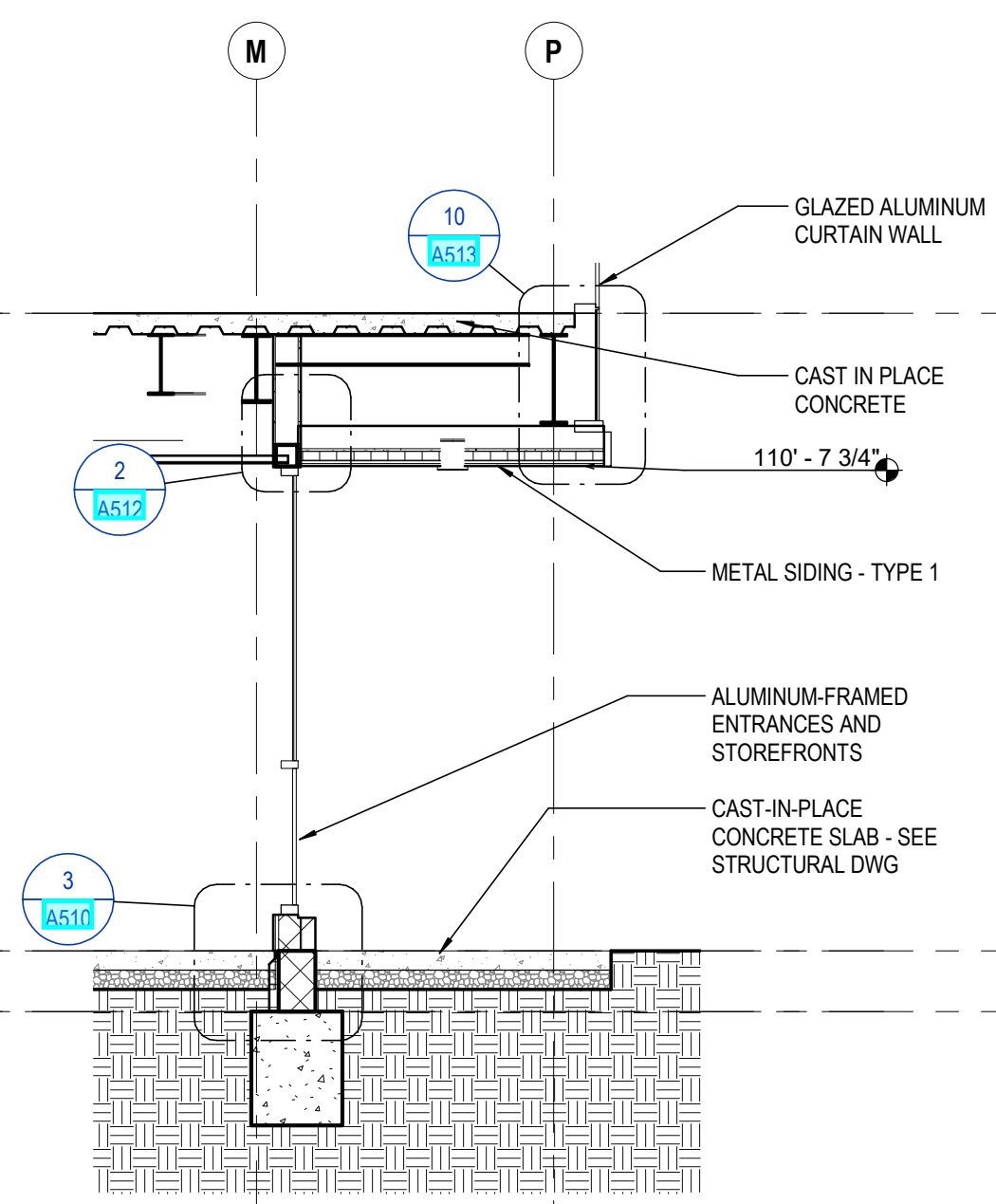
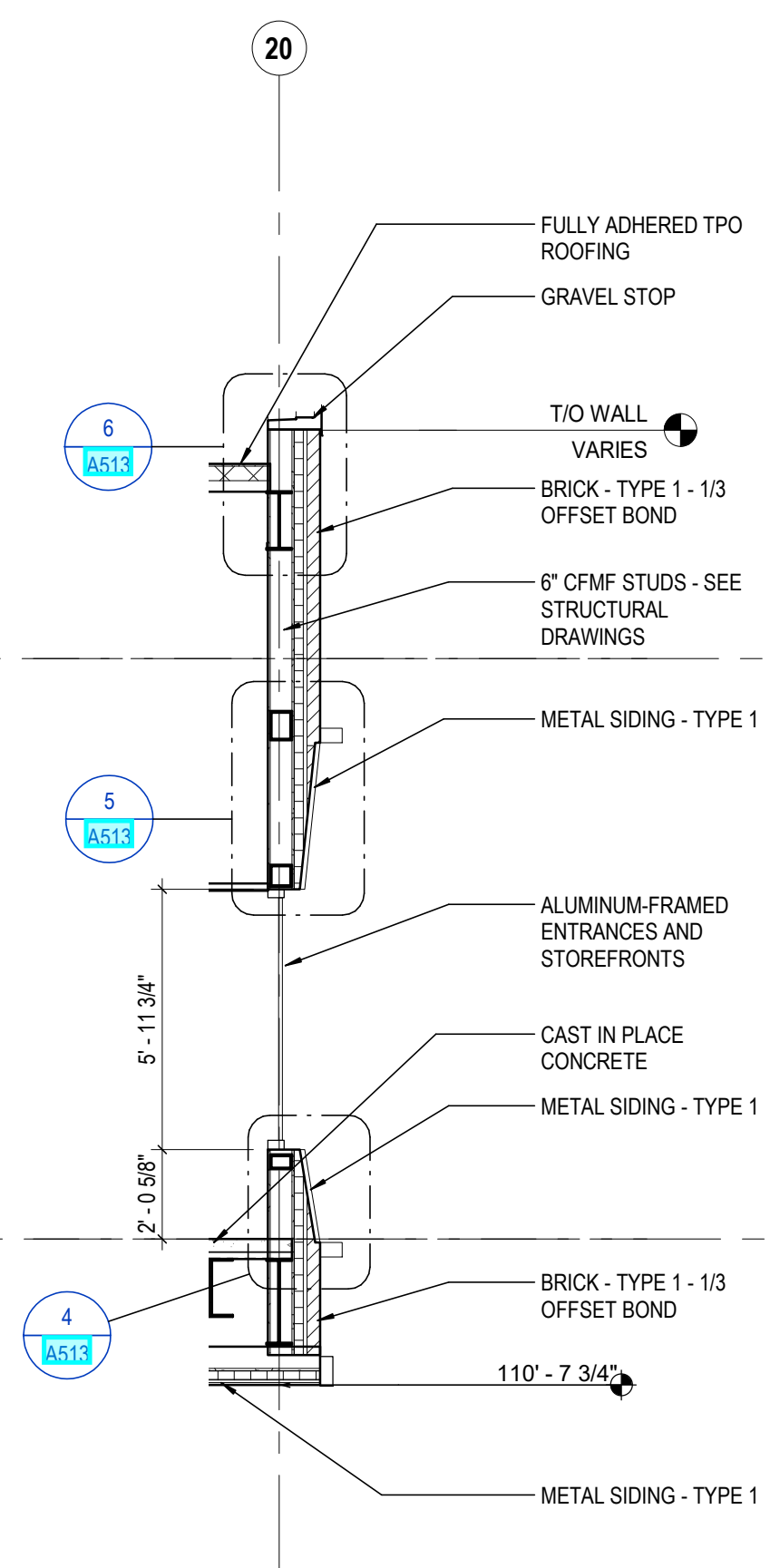
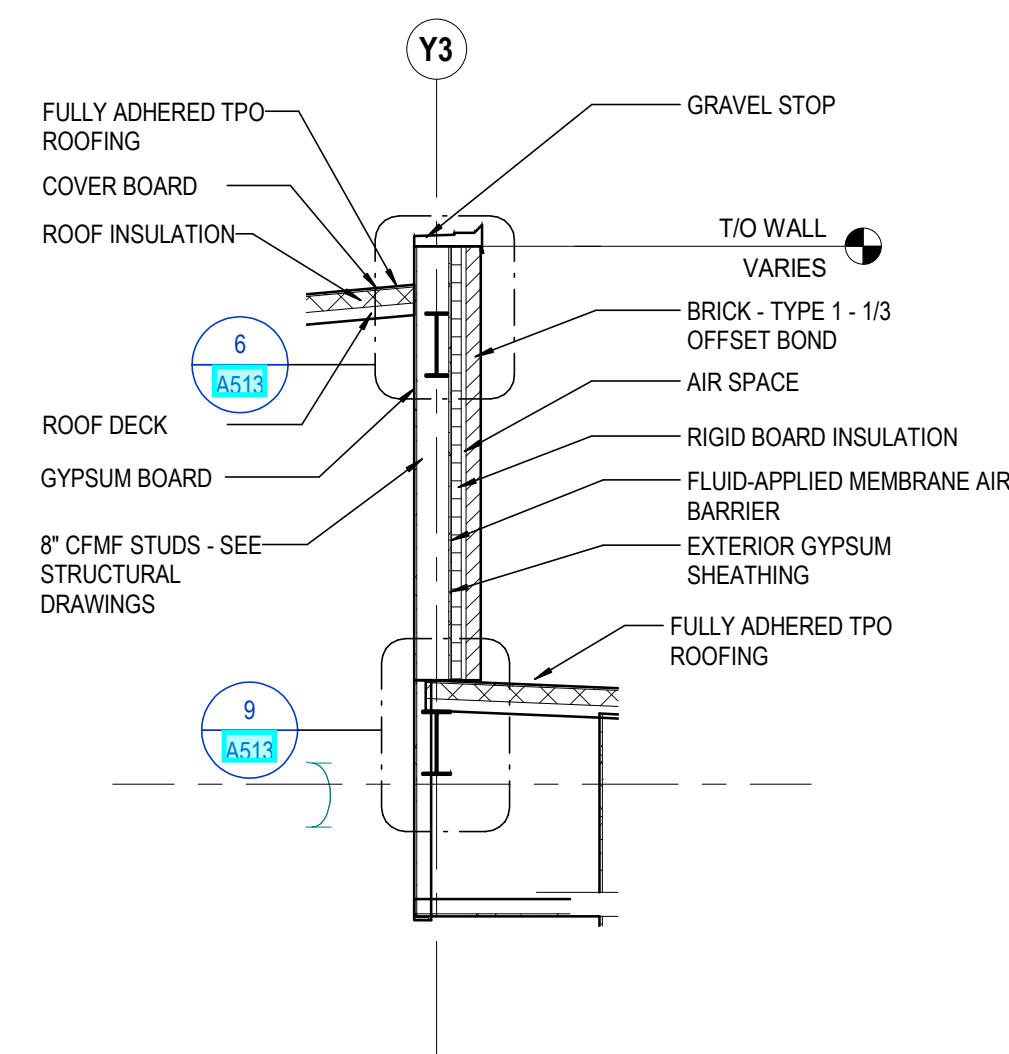


**GENERAL NOTES - WALL SECTIONS**

1. X

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
03.30.00.A1	CAST IN PLACE CONCRETE
03.30.00.D1	CAST-IN-PLACE CONCRETE SLAB - SEE STRUCTURAL DWG
04.00.00.B1A	BRICK - TYPE 1 - 1/3 OFFSET BOND
04.00.00.B1B	BRICK - TYPE 1 - 1/3 CHECKERED BOND
04.00.00.B4	CONCRETE MASONRY UNIT - 8"
04.00.00.Z1	AIR SPACE
05.31.00.A1	ROOF DECK
05.31.00.B2	COMPOSITE FLOOR DECK
05.40.00.A4	C-SHAPED METAL STUD - 3-5/8"
05.40.00.A8	8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05.40.00.A10	8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
07.21.00.A1	RIGID BOARD INSULATION
07.27.26	FLUID-APPLIED MEMBRANE AIR BARRIER
07.46.10.A1	METAL SIDING - TYPE 1
07.54.23.A2	FULLY ADHERED TPO ROOFING
07.54.23.B1	ROOF INSULATION
07.54.23.B3	COVER BOARD
07.62.00.F1	GRAVEL STOP
08.41.13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08.44.13	GLAZED ALUMINUM CURTAIN WALL
09.21.16.M1	GYPSUM BOARD
09.21.16.M5	EXTERIOR GYPSUM SHEATHING
09.51.13.B	ACOUSTICAL CEILING UNIT
31.30.00.B2	COMPACTED GRAVEL SUB-BASE



**5 SECTION** WALL SECTION - 5  
 1/4" = 1'-0" REF: 1 / A103

**4 SECTION** WALL SECTION - 28  
 1/4" = 1'-0" REF: 1 / A102

**3 SECTION** WALL SECTION - 27  
 1/4" = 1'-0" REF: 1 / A103

**2 SECTION** WALL SECTION - 26  
 1/4" = 1'-0" REF: 1 / A103

**1 SECTION** WALL SECTION - 25  
 1/4" = 1'-0" REF: 1 / A103

#	DATE	CHANGE DESCRIPTION

**CML KARL ROAD BRANCH**  
 5590 Hill Road  
 Columbus, Ohio 43229  
 FOR  
**COLUMBUS METROPOLITAN LIBRARY**

300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

DRAWING TITLE:  
**WALL SECTIONS**

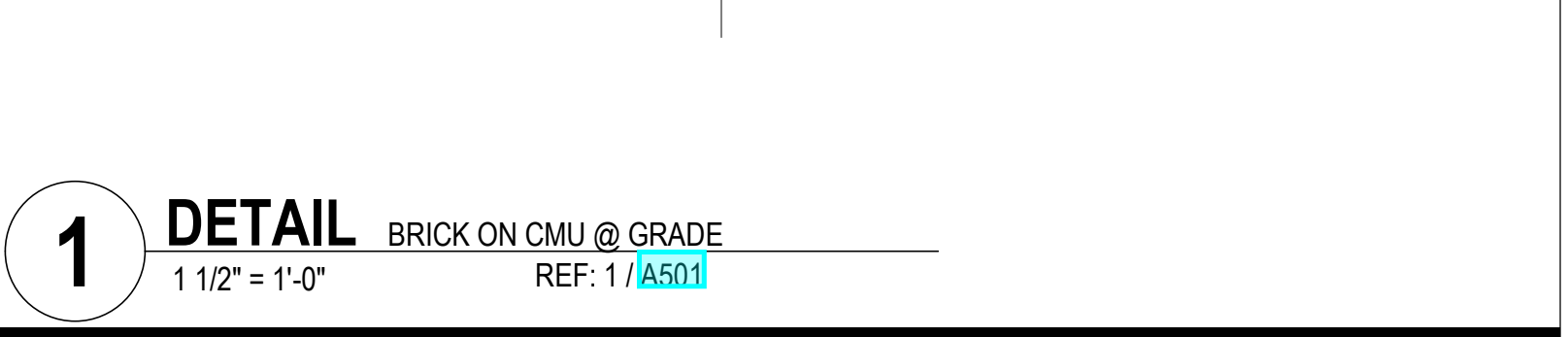
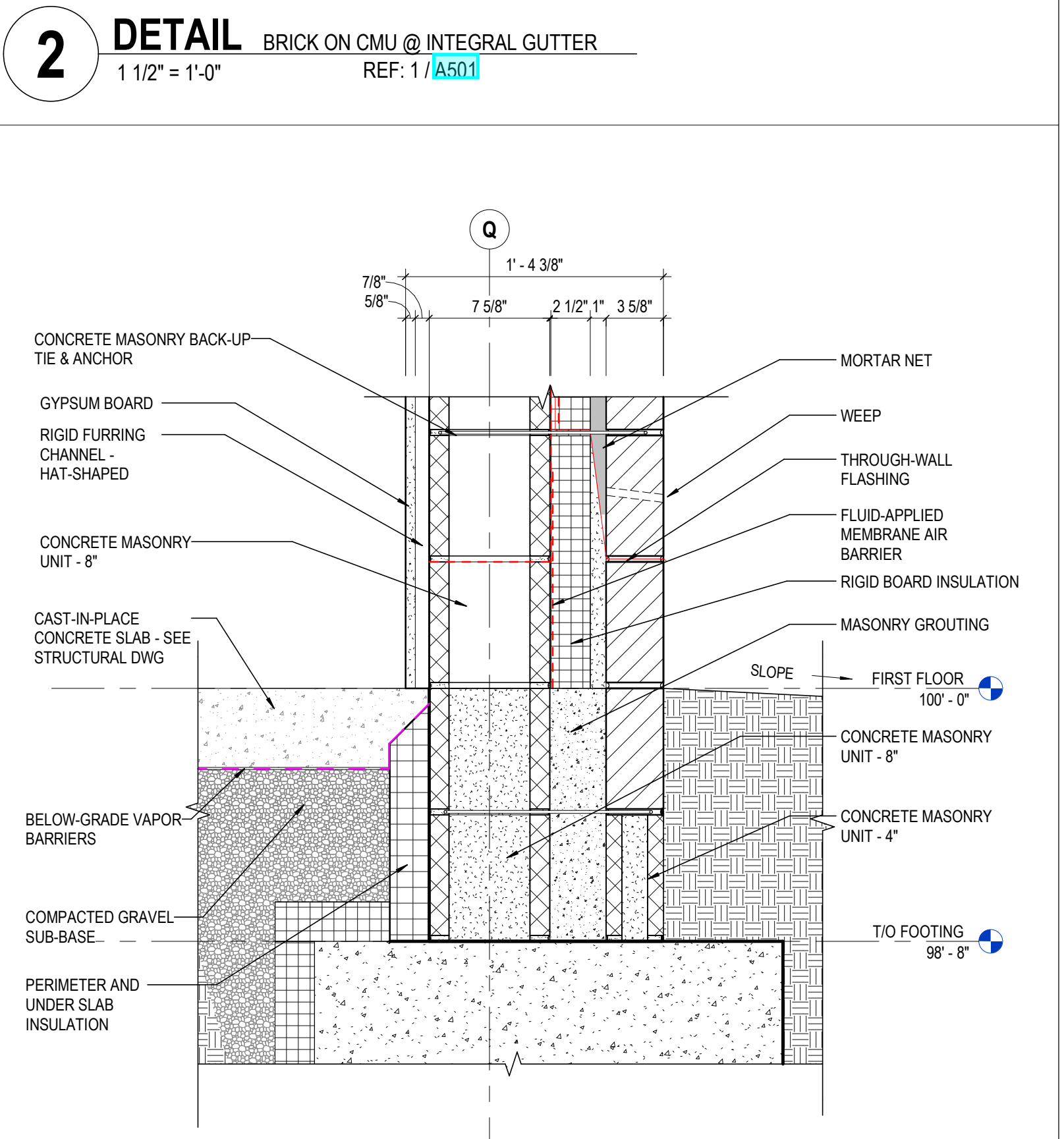
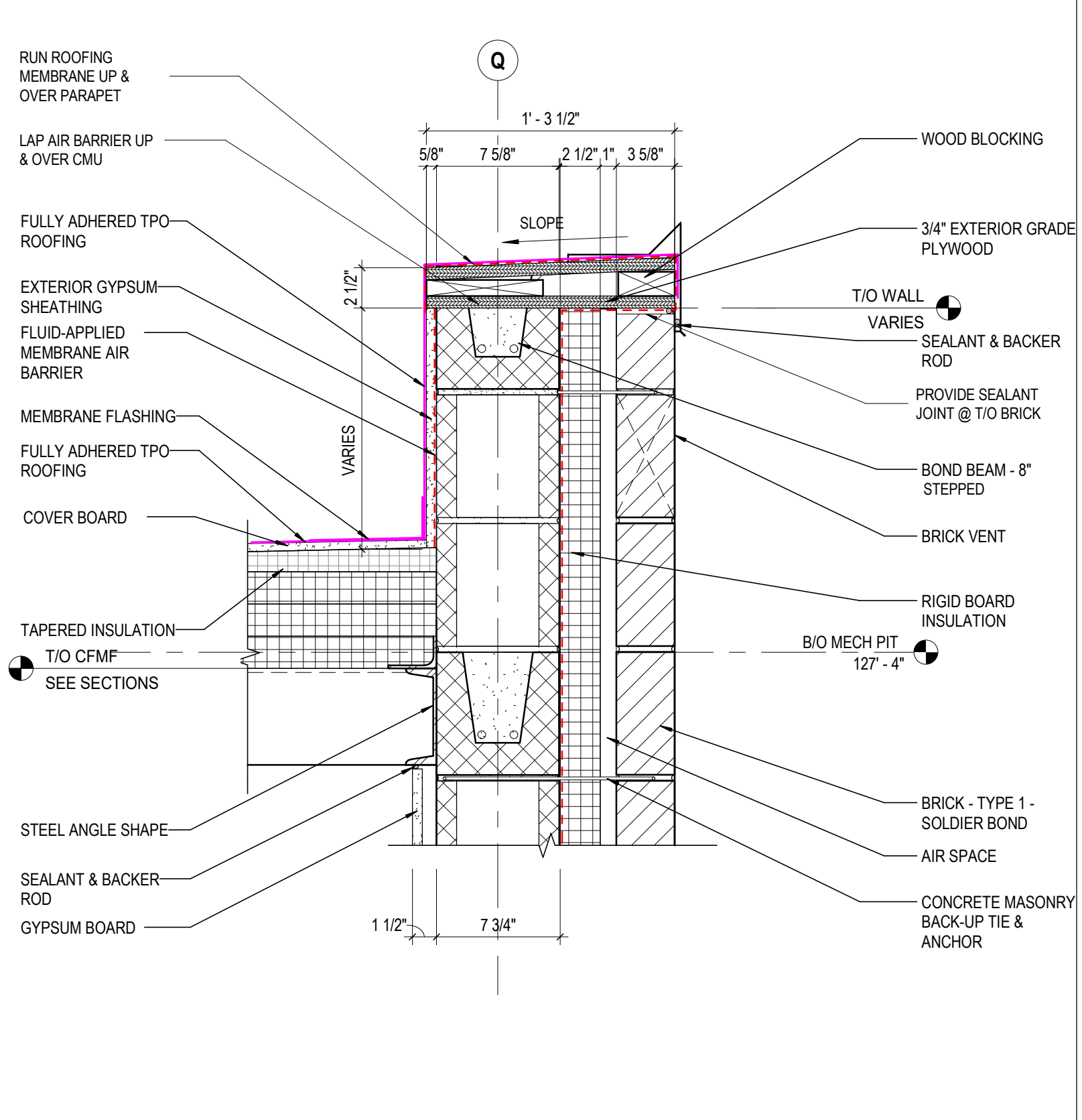
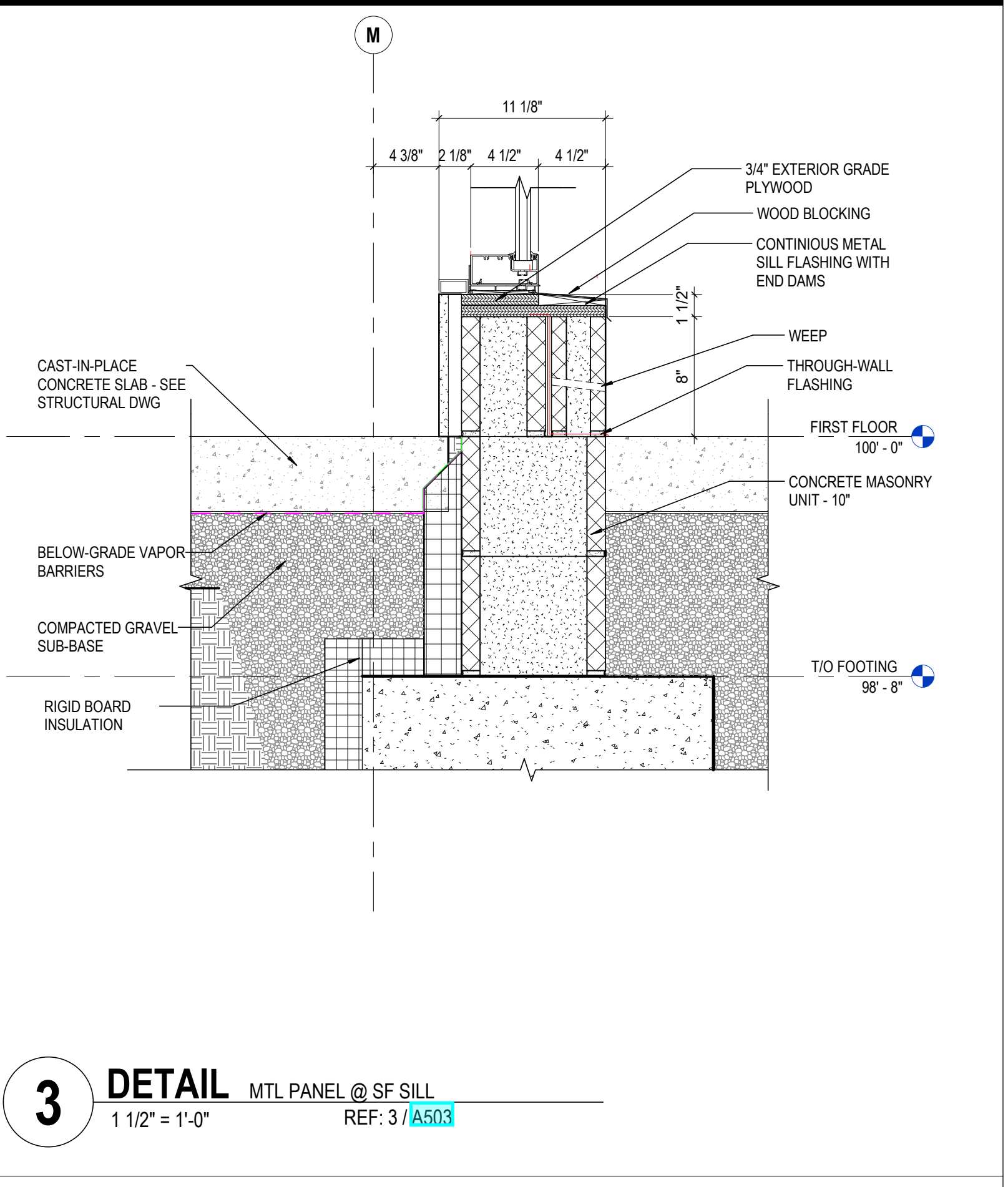
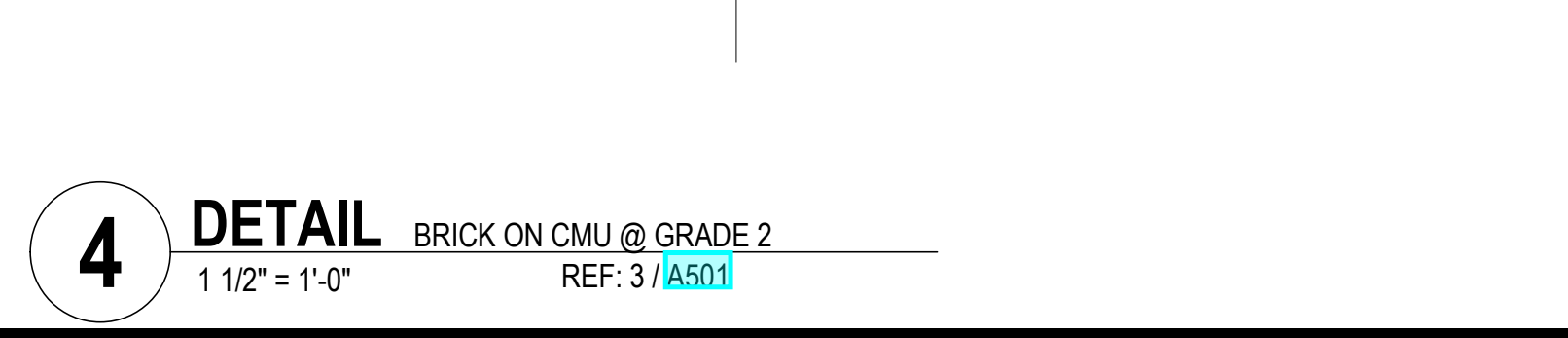
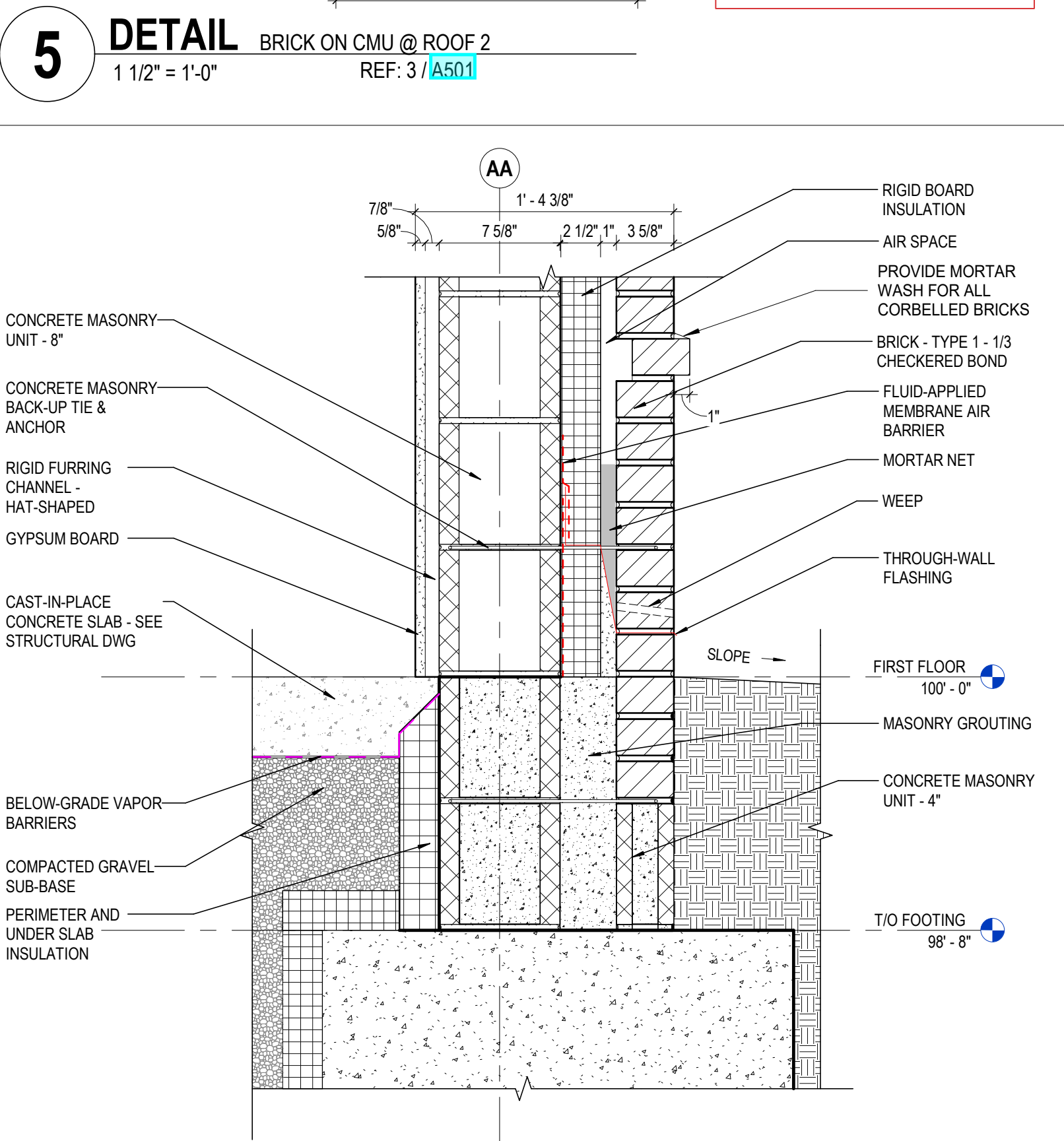
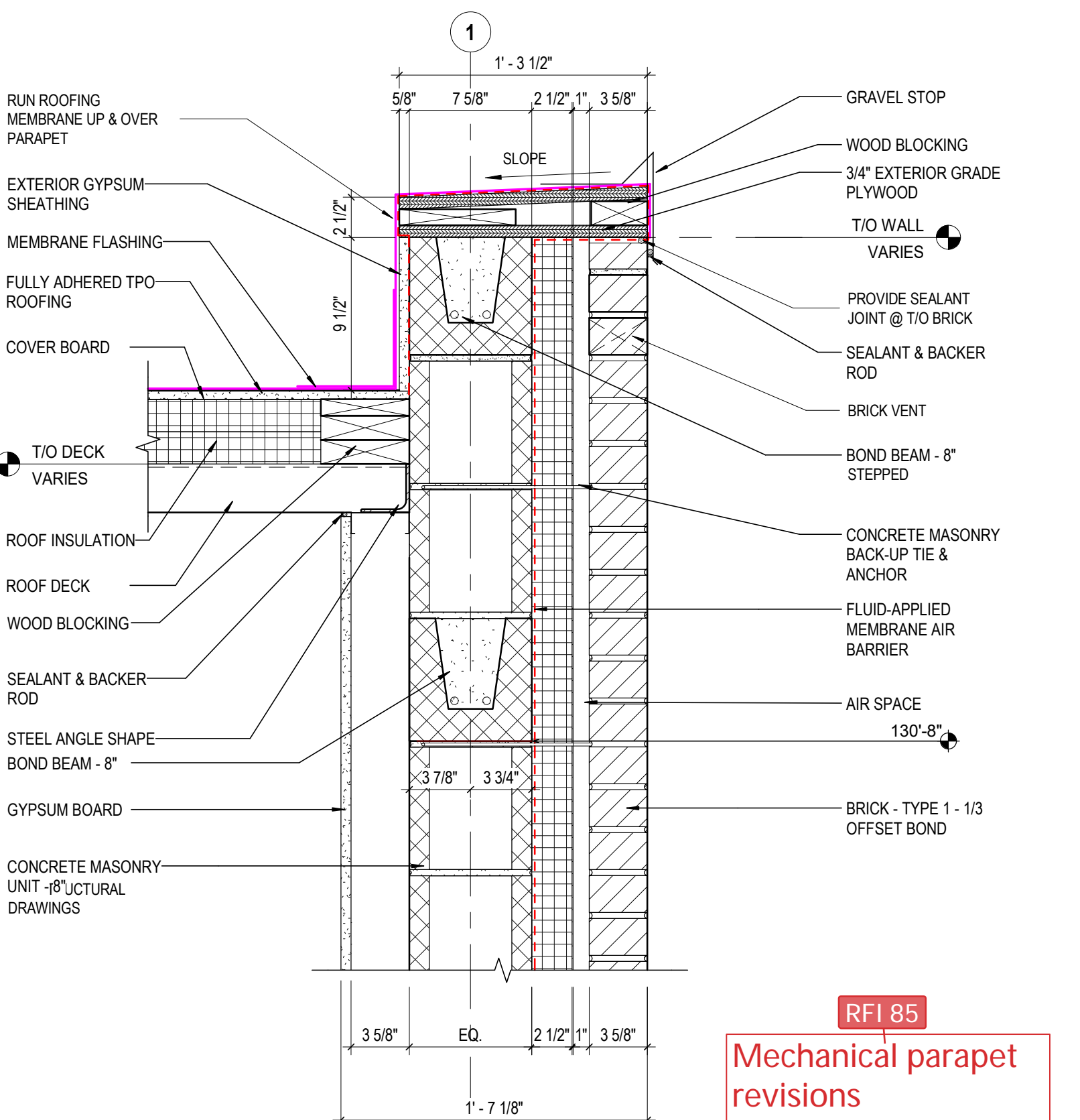
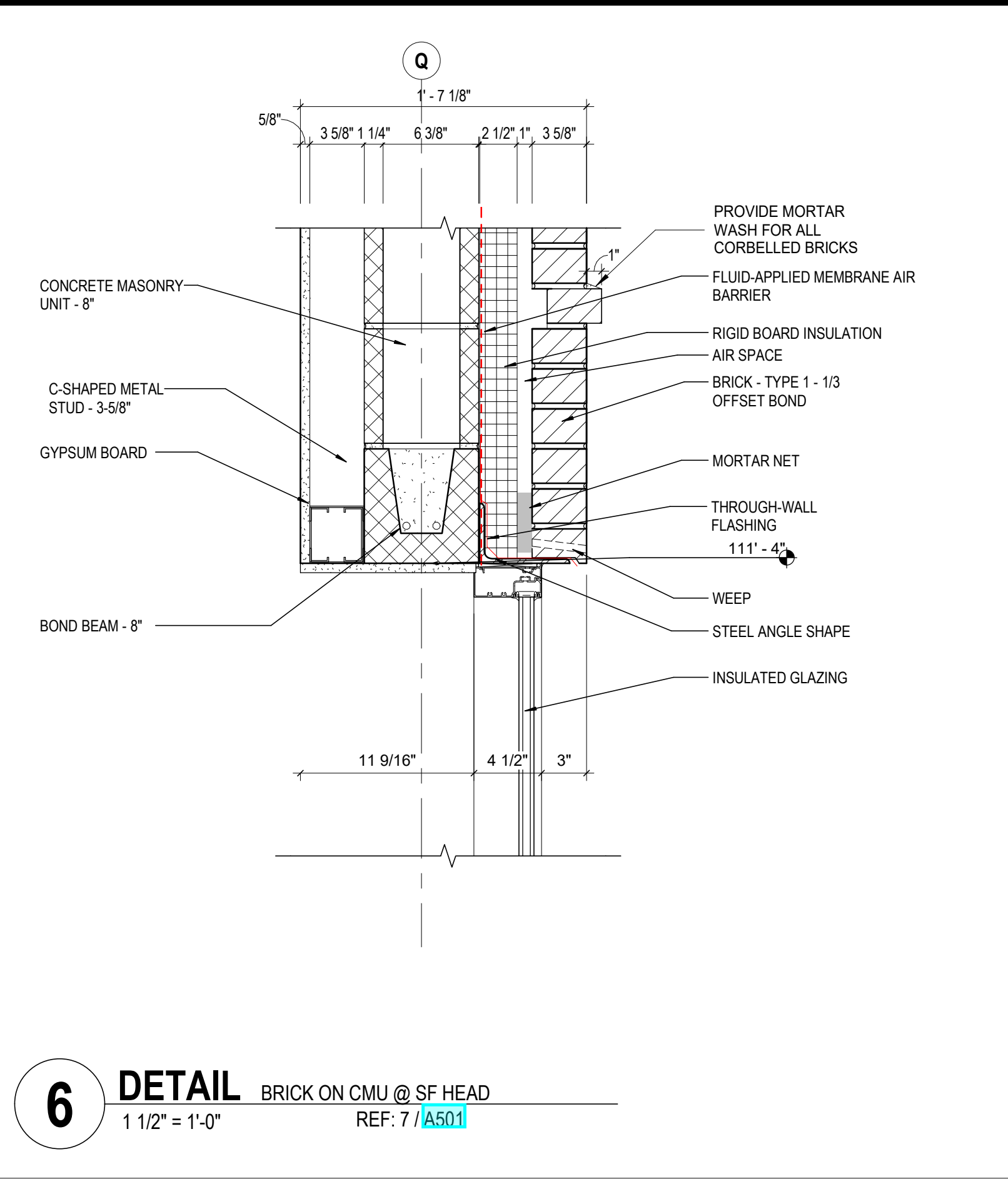
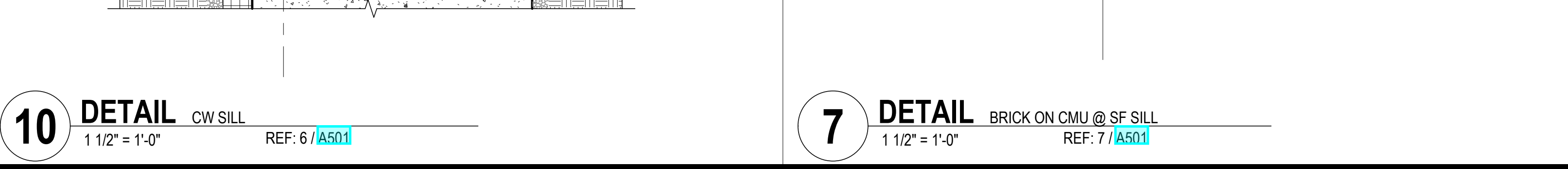
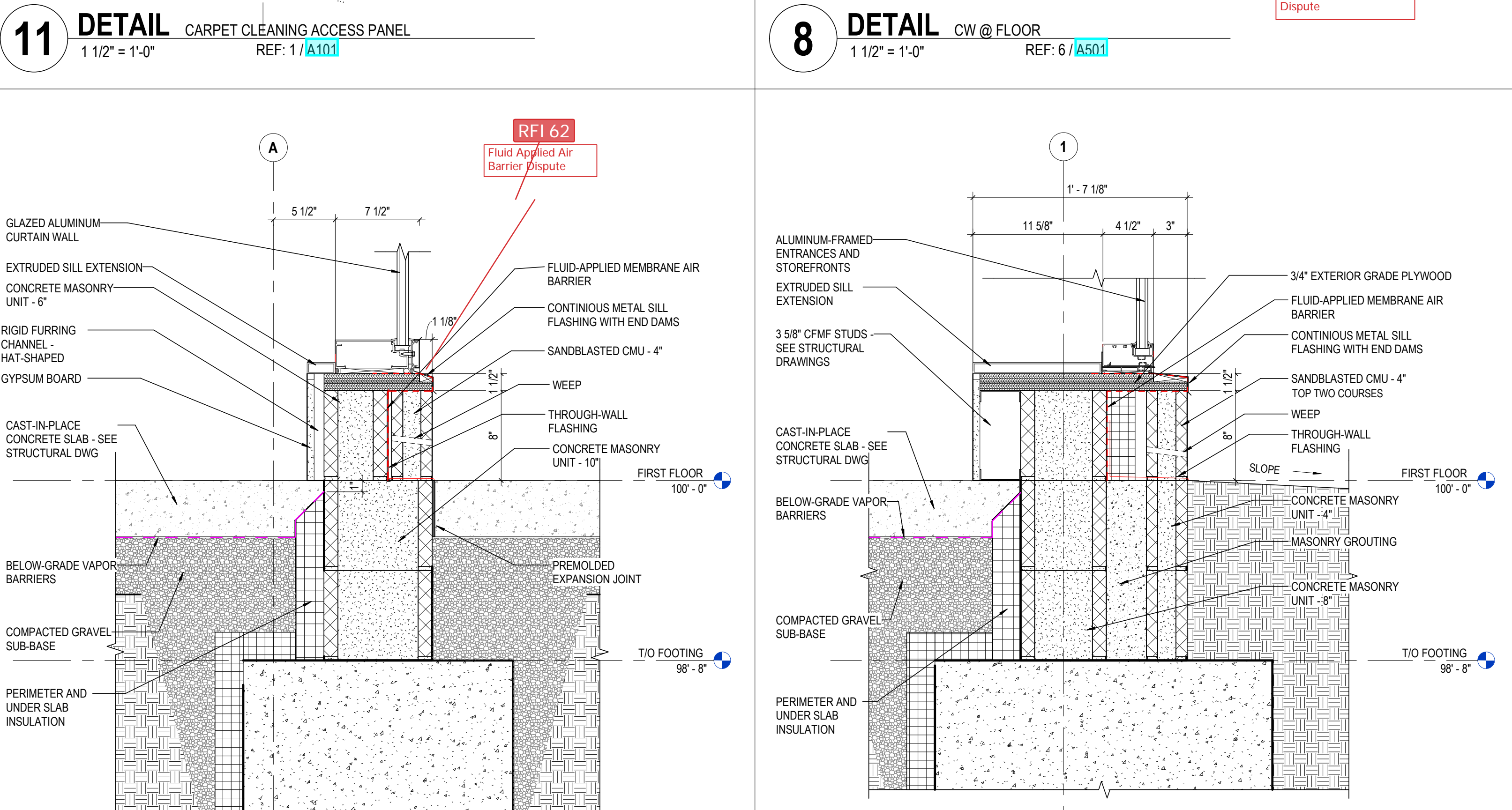
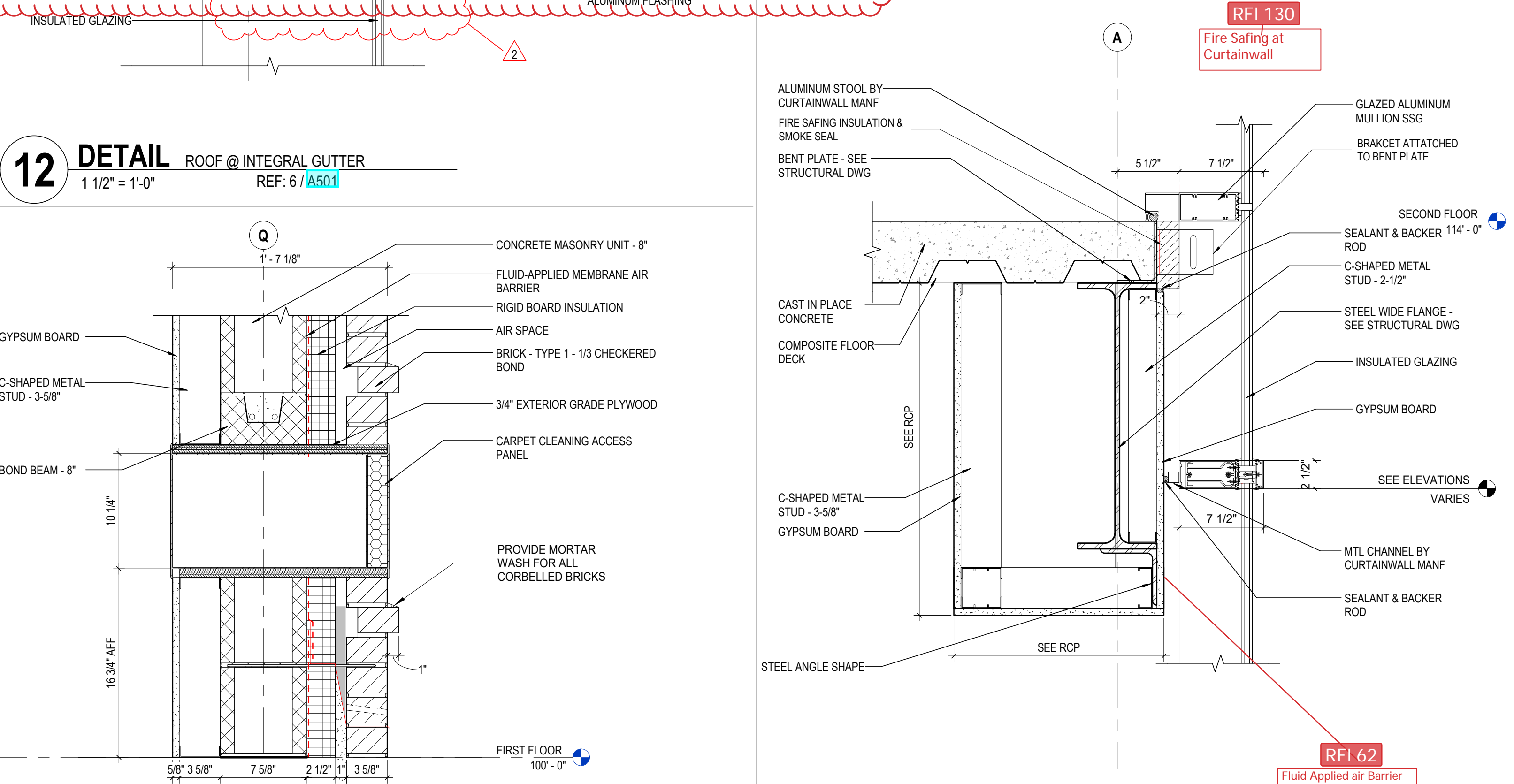
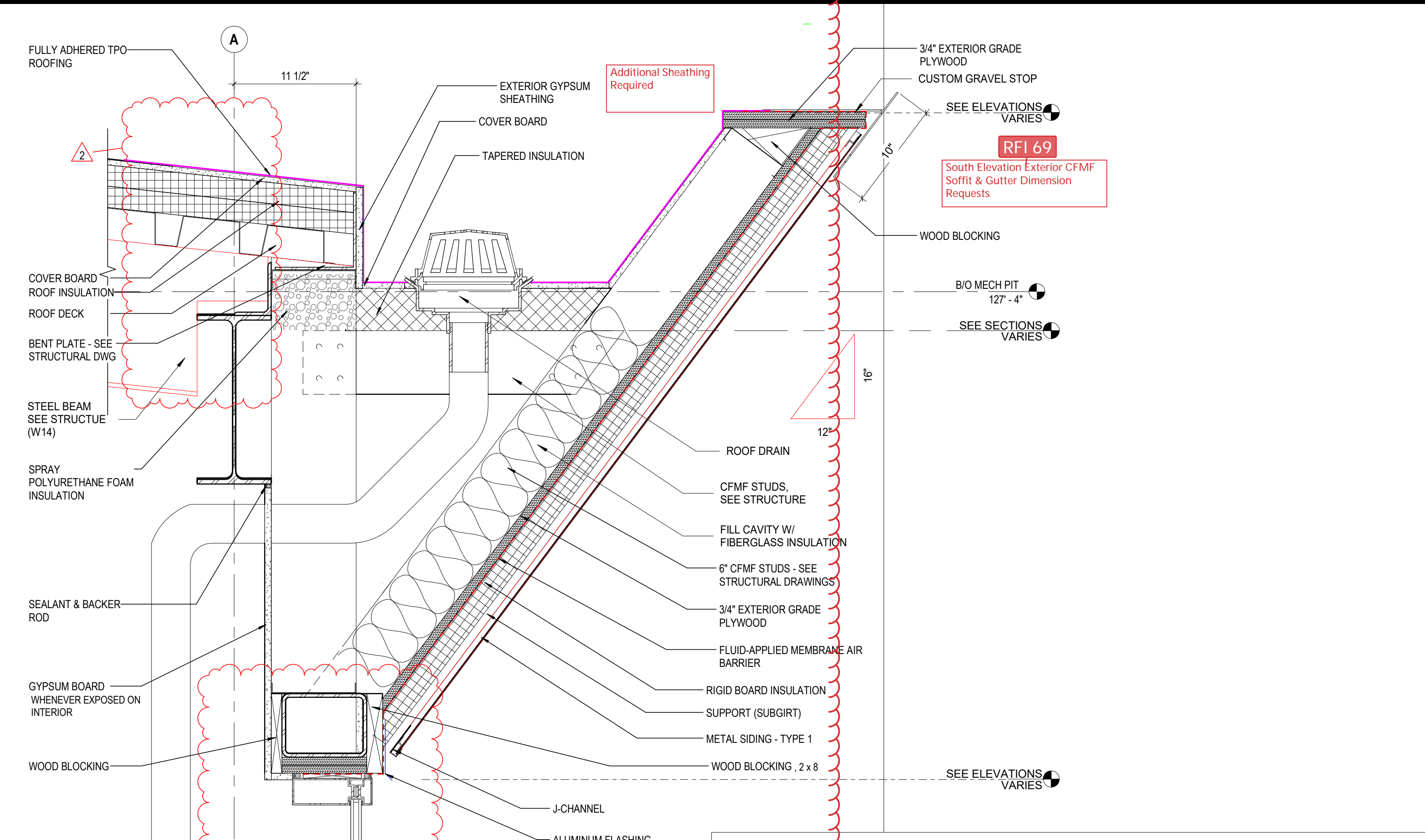
STATE OF OHIO  
 CURTIS J. MOODY  
 REGISTERED ARCHITECT

FEBRUARY 21, 2020  
 DRAWN BY: KG CHECKED BY: HBB/L  
 18428  
**A503**  
 PERMIT SET

CURTIS J. MOODY, LIC. #7096  
 EXP. DATE: 12/31/2019



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 RFI 23 Secondary Roof Drains  
 RFI 69 South Elevation Exterior CFMF Soffit & Gutter Dimension Requests  
 RFI 130 Fire Safing at Curtainwall  
 RFI 62 Fluid Applied Air Barrier Dispute  
 RFI 85 Mechanical parapet revisions  
 PRINT DATE: 01/24/2020 10:14:52 PM  
 FILE INFO: C:\S\Local\Revit\Projects\2019\0820 CML Karl Road Branch - ARCH\_KC\as510.rvt



**GENERAL NOTES - EXTERIOR DETAILS**

- PROVIDE DAMPPROOF MASONRY FOR ALL BELOW GRADE

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
03 30 00.A1	CAST IN PLACE CONCRETE
03 30 00.D1	CAST-IN-PLACE CONCRETE SLAB - SEE STRUCTURAL DWG
03 30 00.S1	PRECAST EXPANSION JOINT
04 00 00.B1	BRICK - TYPE 1 - 1/3 OFFSET BOND
04 00 00.B1B	BRICK - TYPE 1 - 1/3 CHECKERED BOND
04 00 00.B1C	BRICK - TYPE 1 - SOLDIER BOND
04 00 00.D2	CONCRETE MASONRY UNIT - 4"
04 00 00.D3	CONCRETE MASONRY UNIT - 6"
04 00 00.D4	CONCRETE MASONRY UNIT - 8"
04 00 00.D5	CONCRETE MASONRY UNIT - 10"
04 00 00.P2	BOND BEAM - 8"
04 00 00.T1	SANDBLASTED CMU - 4"
04 00 00.W8	CONCRETE MASONRY BACK-UP TIE & ANCHOR
04 00 00.W9	BRICK VENT
04 00 00.X1	THROUGH-WALL FLASHING
04 00 00.X15	WEEP
04 00 00.X16	MORTAR NET
04 00 00.Z1	AIR SPACE
04 05 16	MASONRY GROUTING
05 12 00.A1	STEEL ANGLE SHAPE
05 12 00.B1	STEEL WIDE FLANGE - SEE STRUCTURAL DWG
05 12 00.B5	BENT PLATE - SEE STRUCTURAL DWG
05 31 00.A1	ROOF DECK
05 31 00.B2	COMPOSITE FLOOR DECK
05 40 00.A2	C-SHAPED METAL STUD - 2-1/2"
05 40 00.A4	C-SHAPED METAL STUD - 3-5/8"
05 40 00.A6	3-5/8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 40 00.A8	6" CFMF STUDS - SEE STRUCTURAL DRAWINGS
06 10 00.A1	WOOD BLOCKING
06 10 50.B1	3/4" EXTERIOR GRADE PLYWOOD
07 21 00.A1	RIGID BOARD INSULATION
07 21 00.D1	PERIMETER AND UNDER SLAB INSULATION
07 21 00.F1	SPRAY POLYURETHANE FOAM INSULATION
07 26 16	BELOW GRADE VAPOR BARRIERS
07 27.26	FLUID-APPLIED MEMBRANE AIR BARRIER (SUBGIRT)
07 42 13.D1	J-CHANNEL
07 42 13.H1	METAL SIDING - TYPE 1
07 46 10.A1	FLUID-APPLIED MEMBRANE AIR BARRIER
07 54 23.A2	FULLY ADHERED TPO ROOFING
07 54 23.B1	ROOF INSULATION
07 54 23.B3	COVER BOARD
07 54 23.B4	TAPERED INSULATION
07 62 00.F1	GRAVEL STOP
07 62 00.H4	CONTINUOUS METAL SILL FLASHING WITH END DAMS
07 62 00.H5	MEMBRANE FLASHING
07 62 00.H6	SEALANT & BACKER ROD
07 62 00.H7	BRICK VENT
08 31 13.A1	CARPET CLEANING ACCESS PANEL
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 41 13.E1	EXTRUDED SILL EXTENSION
08 44 13	GLAZED ALUMINUM CURTAIN WALL
08 44 13.A2	GLAZED ALUMINUM MULLION SSG
08 44 13.C1	ALUMINUM FLASHING
08 44 13.E1	EXTRUDED SILL EXTENSION
08 44 13.I1	MTL CHANNEL BY CURTAINWALL MANF
08 44 13.K1	ALUMINUM STOOL BY CURTAINWALL MANF
08 81 00.A1	INSULATED GLAZING
09 21 16.G1	RIGID FURRING CHANNEL - HAT SHAPED
09 21 16.M1	GYPSUM BOARD
09 21 16.M5	EXTERIOR GYPSUM SHEATHING
31 30 00.B2	COMPACTED GRAVEL SUB-BASE

#	DATE	CHANGE DESCRIPTION
1	01/24/2020	ADDENDUM 02
2	8/18/2020	BULLETIN 05

**CML KARL ROAD BRANCH**  
 5590 Hart Road  
 Columbus, Ohio 43229  
 FOR  
**COLUMBUS METROPOLITAN LIBRARY**

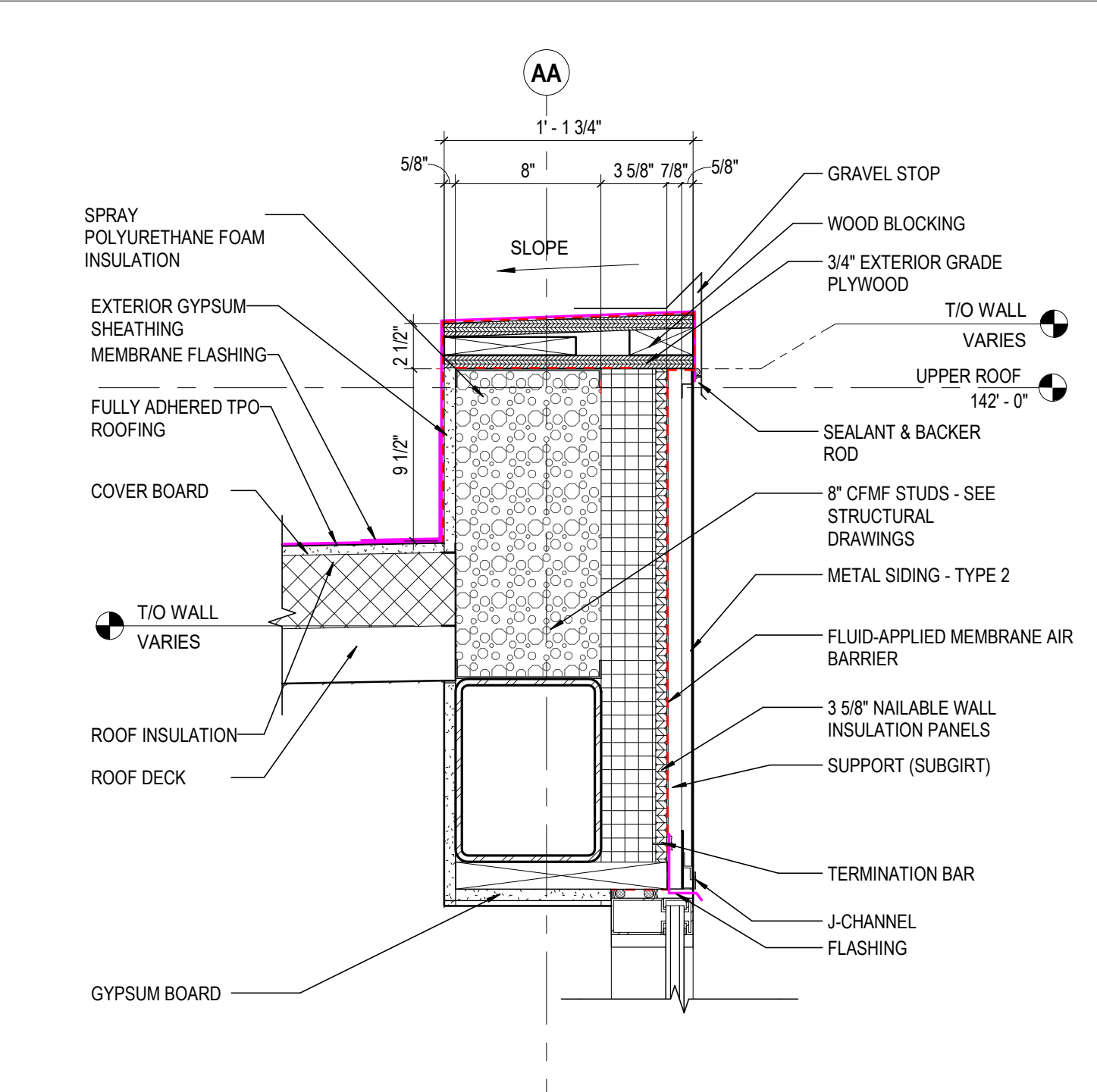
300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

DRAWING TITLE: **SECTION DETAILS**

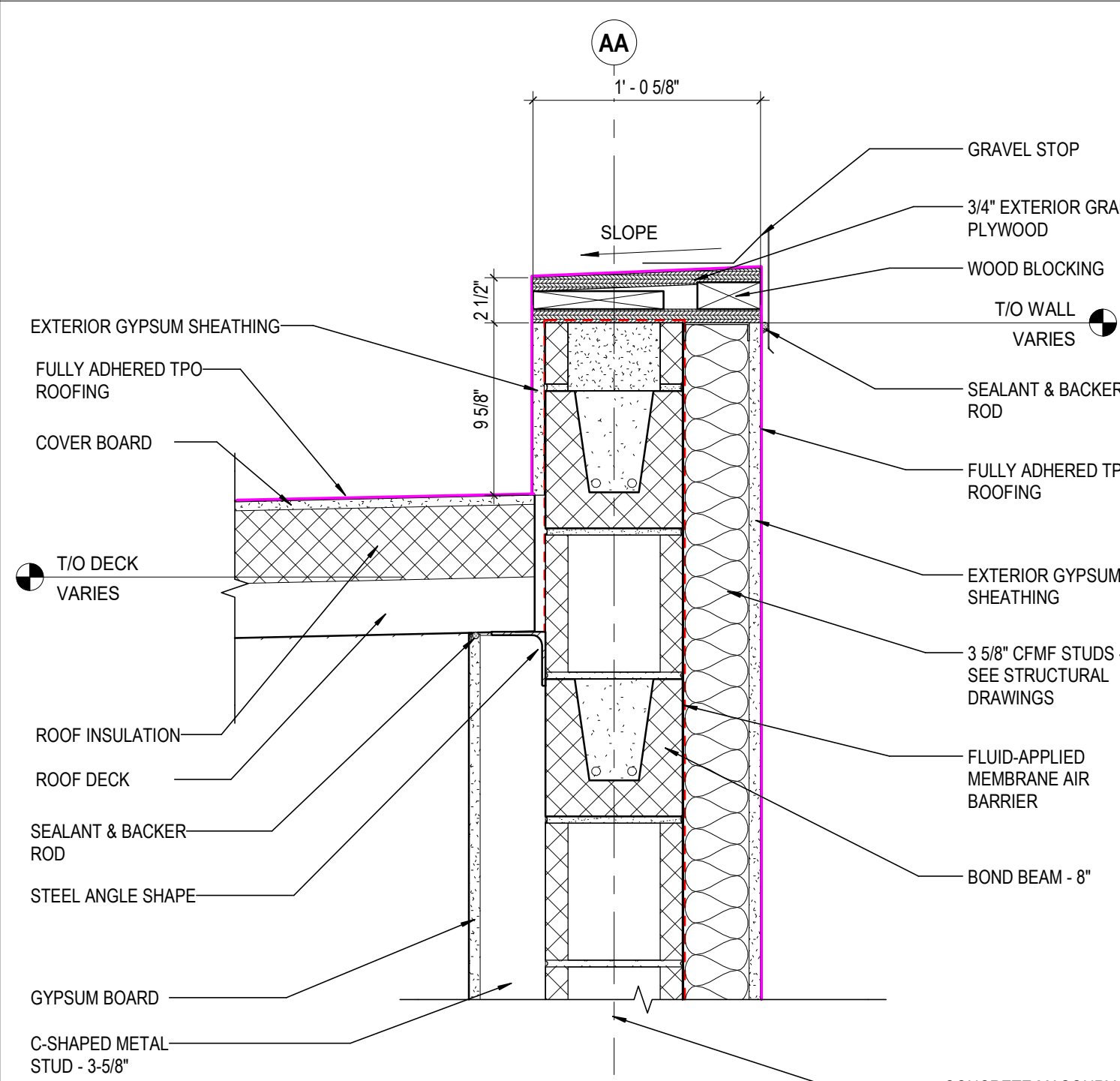
FEBRUARY 21, 2020  
 DRAWN BY: KG CHECKED BY: HBL  
 18428  
**A510**  
 PERMIT SET

CURTIS J. MOODY, LIC. #7096  
 EXP. DATE: 12/31/2019

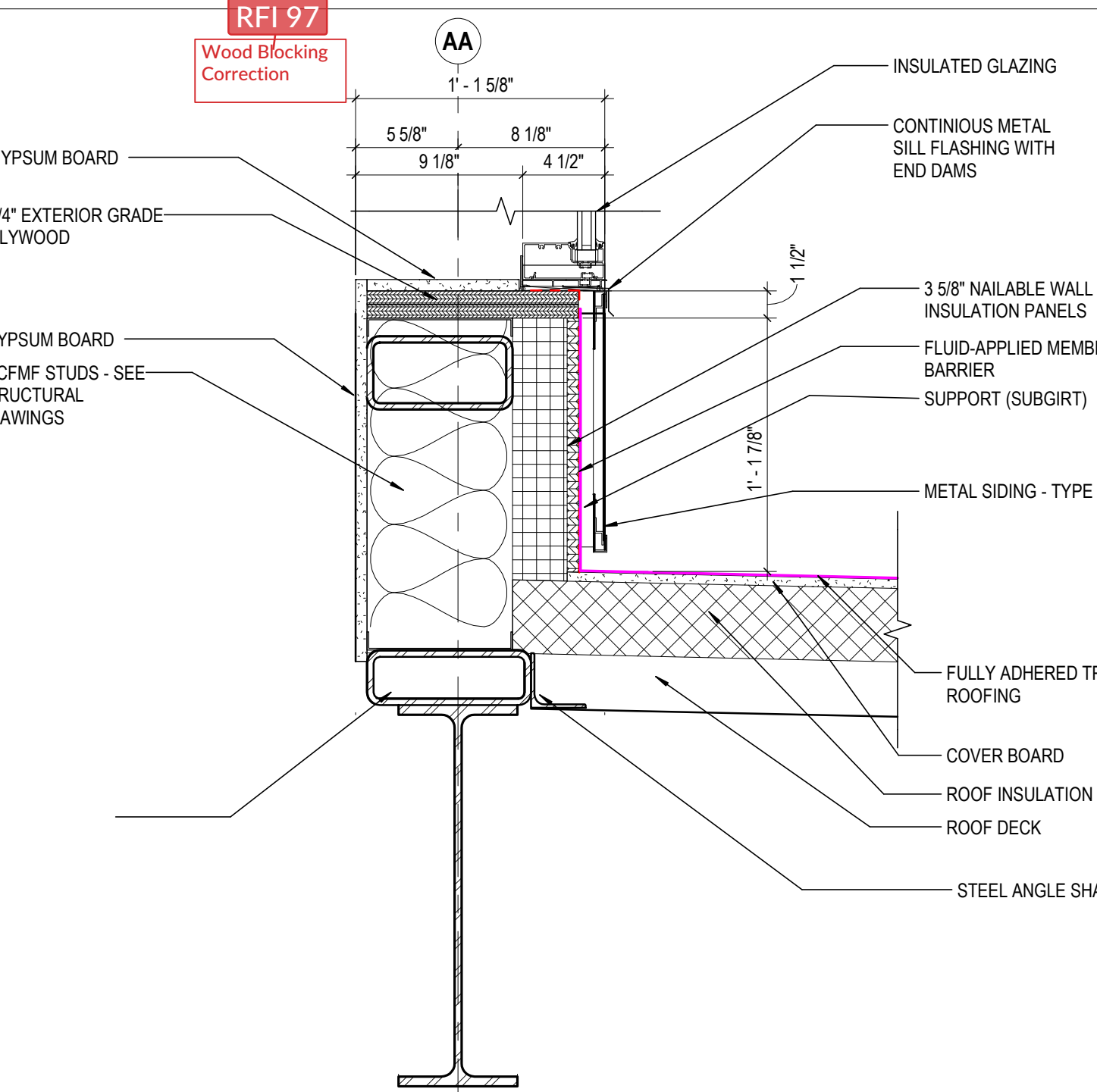




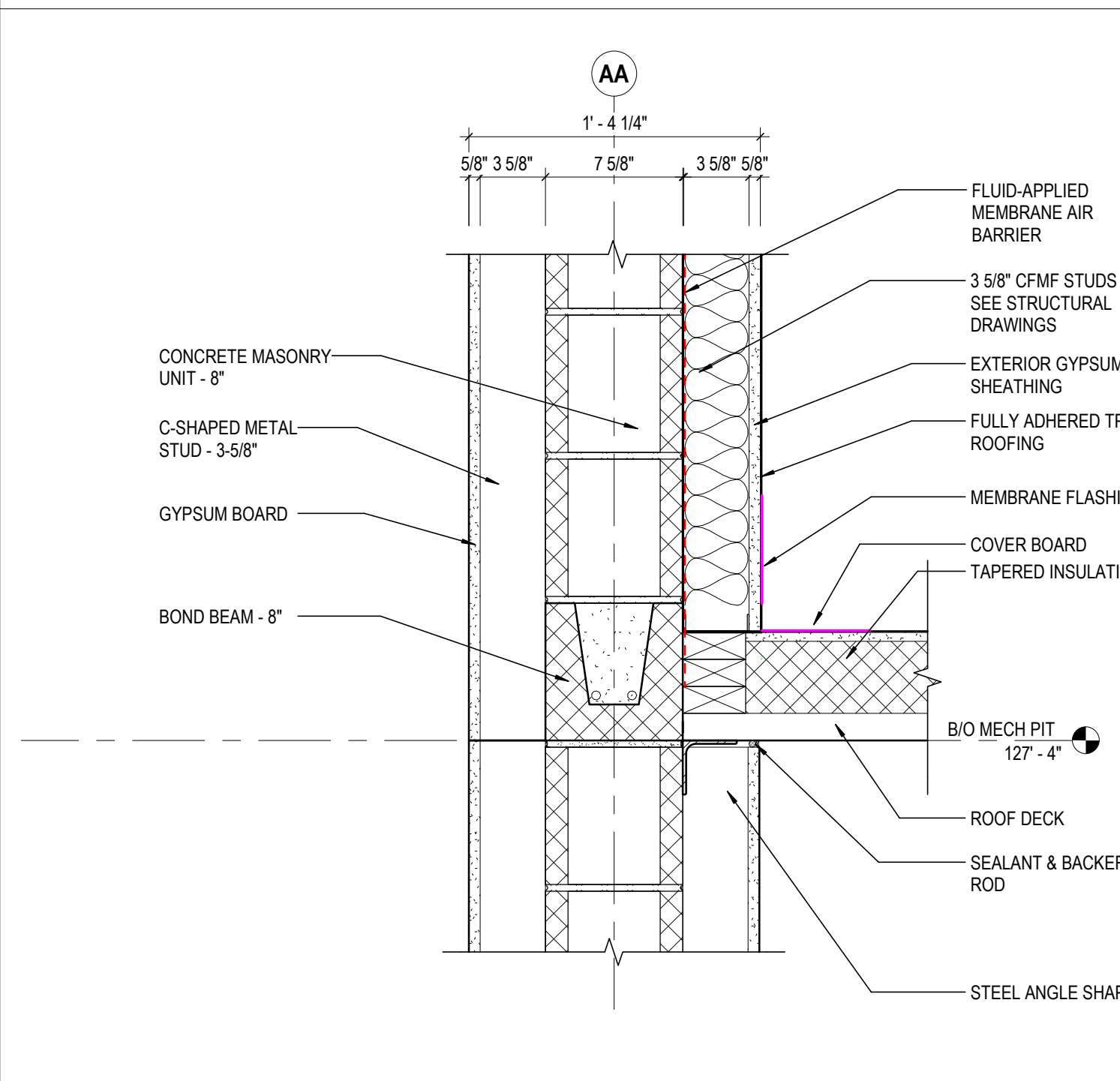
**11 DETAIL** EAST CLERESTORY HEAD  
 1 1/2" = 1'-0" REF: 5 / A501



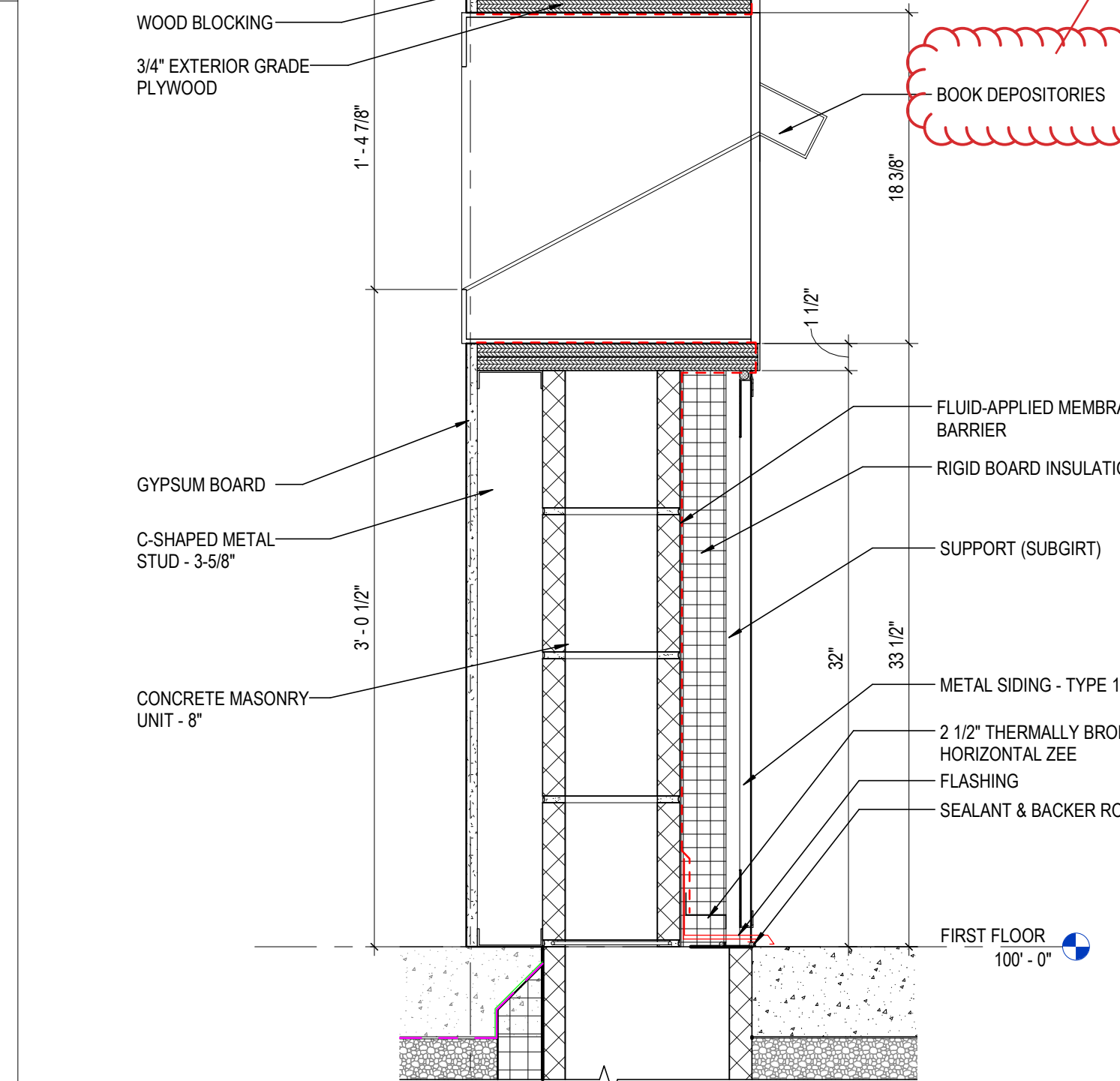
**8 DETAIL** T/O EAST WALL @ MECHANICAL PIT  
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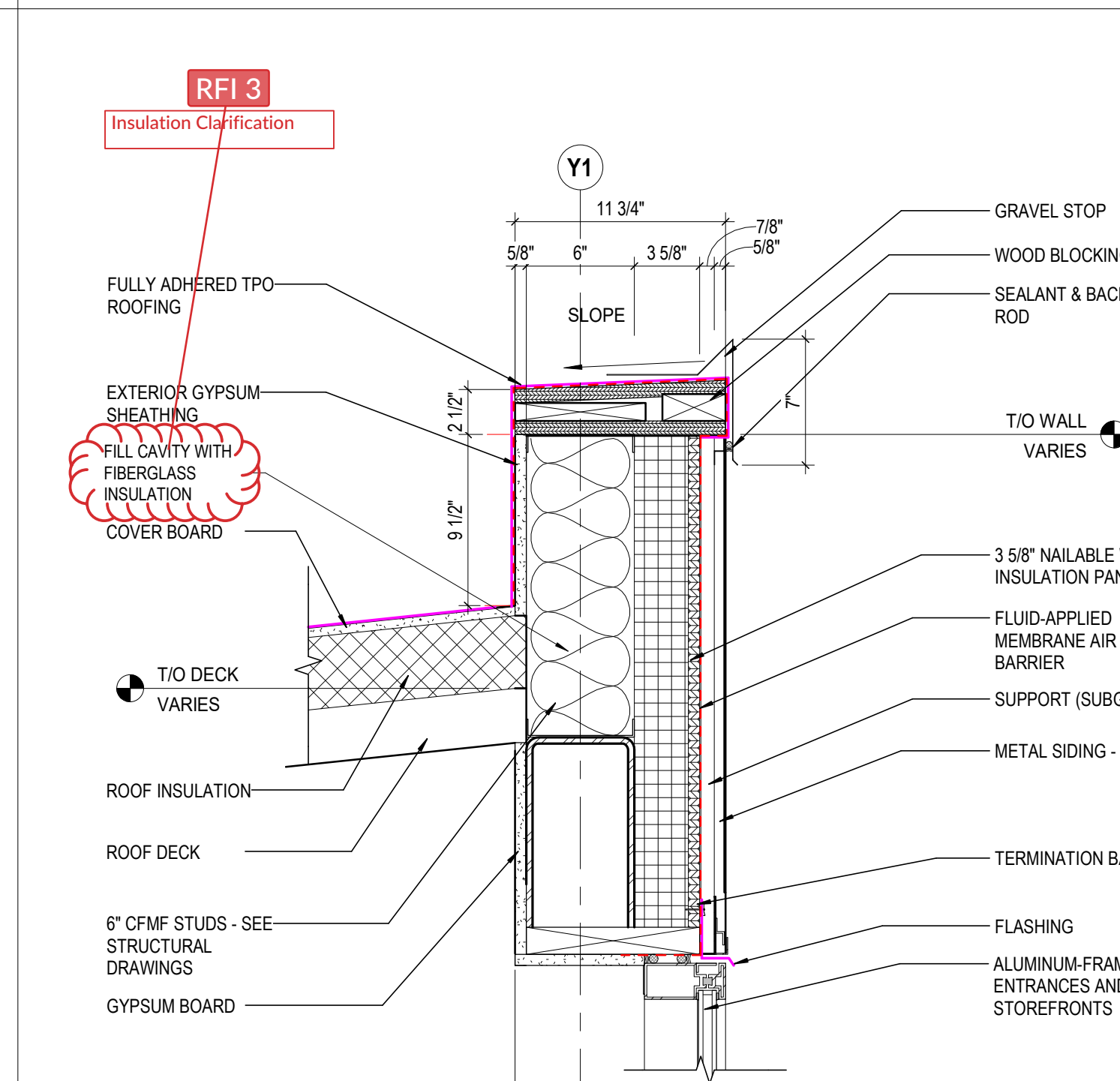
**10 DETAIL** EAST CLERESTORY SILL  
 1 1/2" = 1'-0" REF: 5 / A501



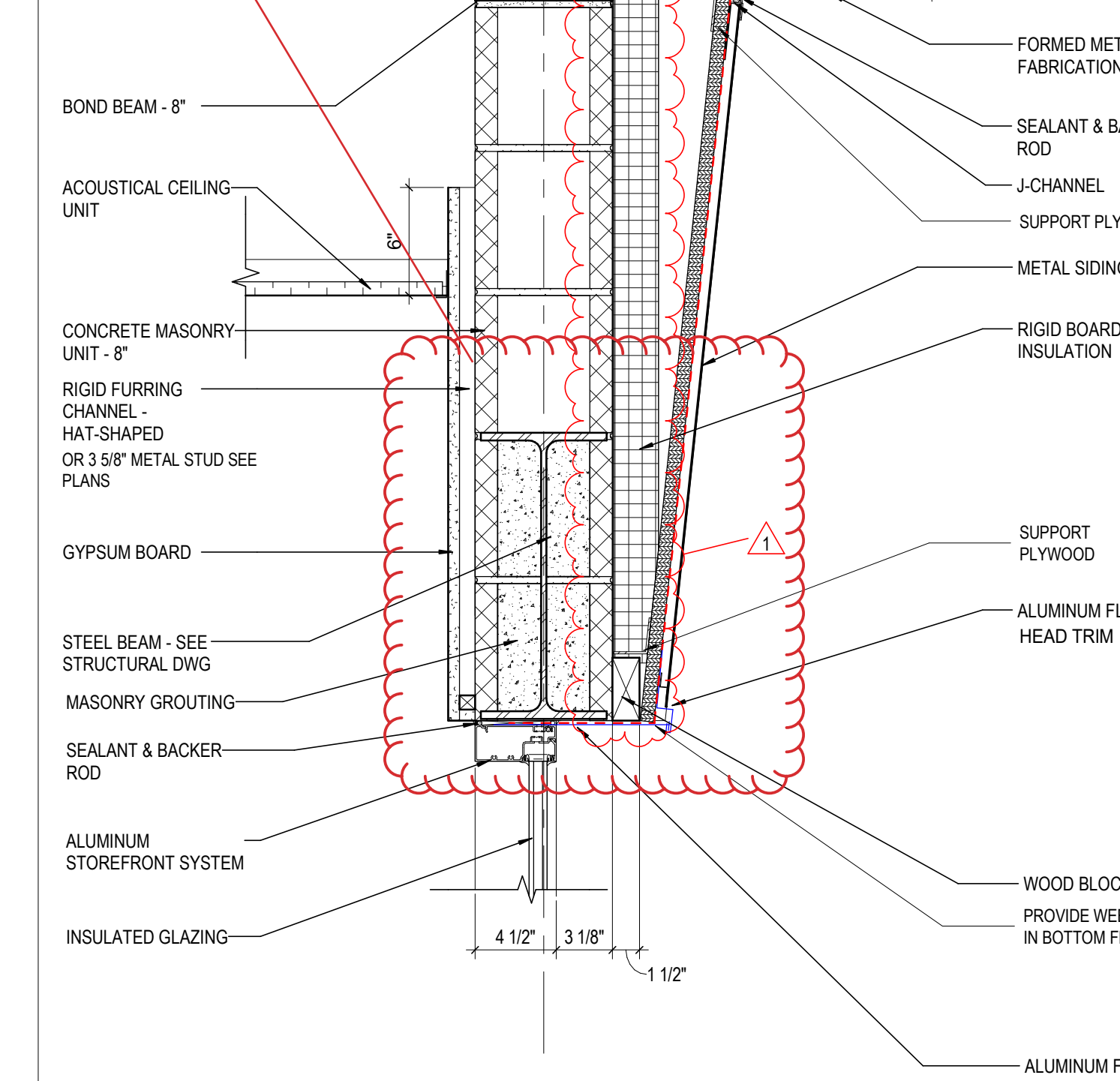
**7 DETAIL** B/O EAST WALL @ MECHANICAL PIT  
 1 1/2" = 1'-0" REF: 9 / A502



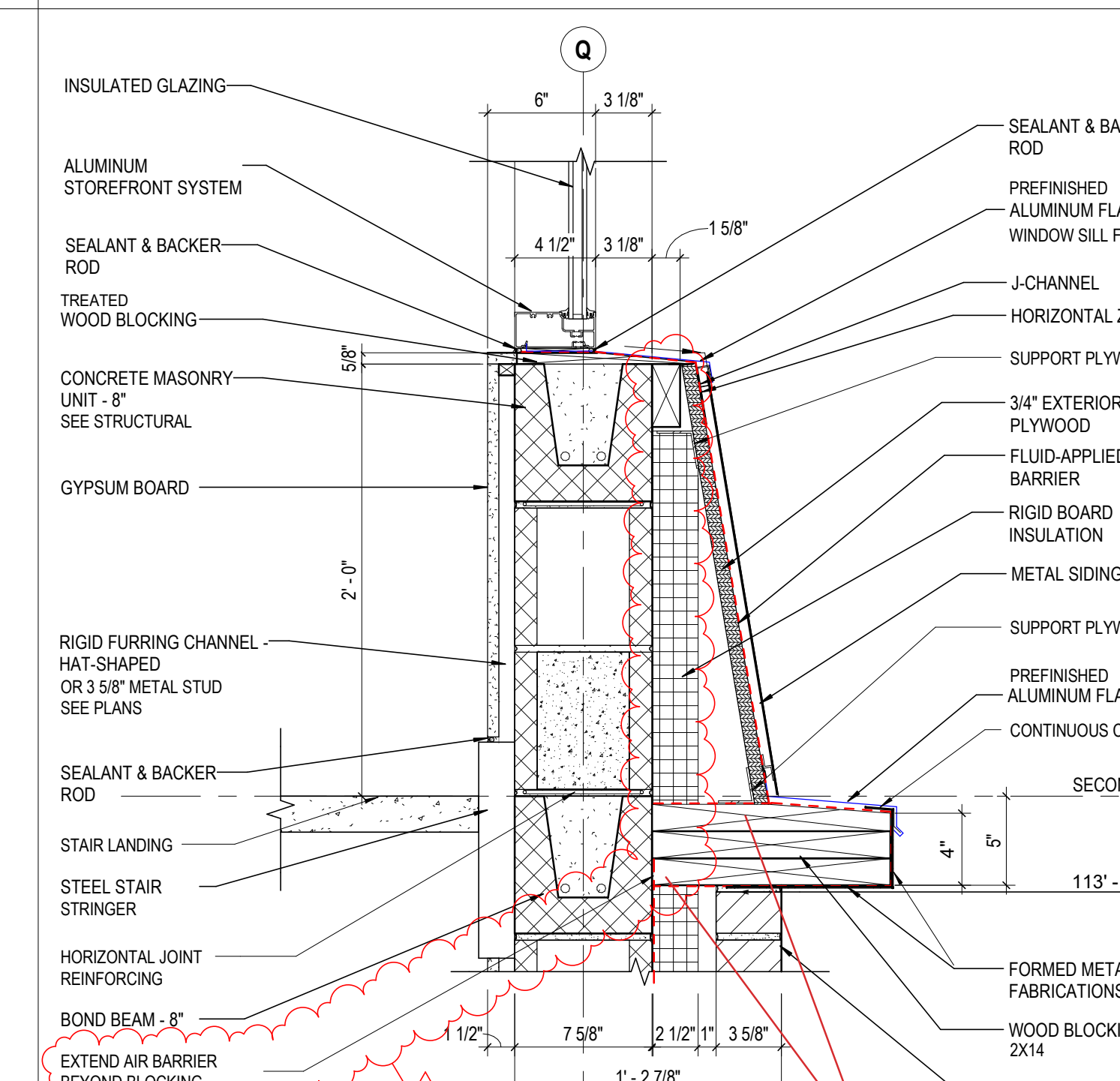
**5 DETAIL** BOOK DROP OFF  
 1 1/2" = 1'-0" REF: 1 / A101



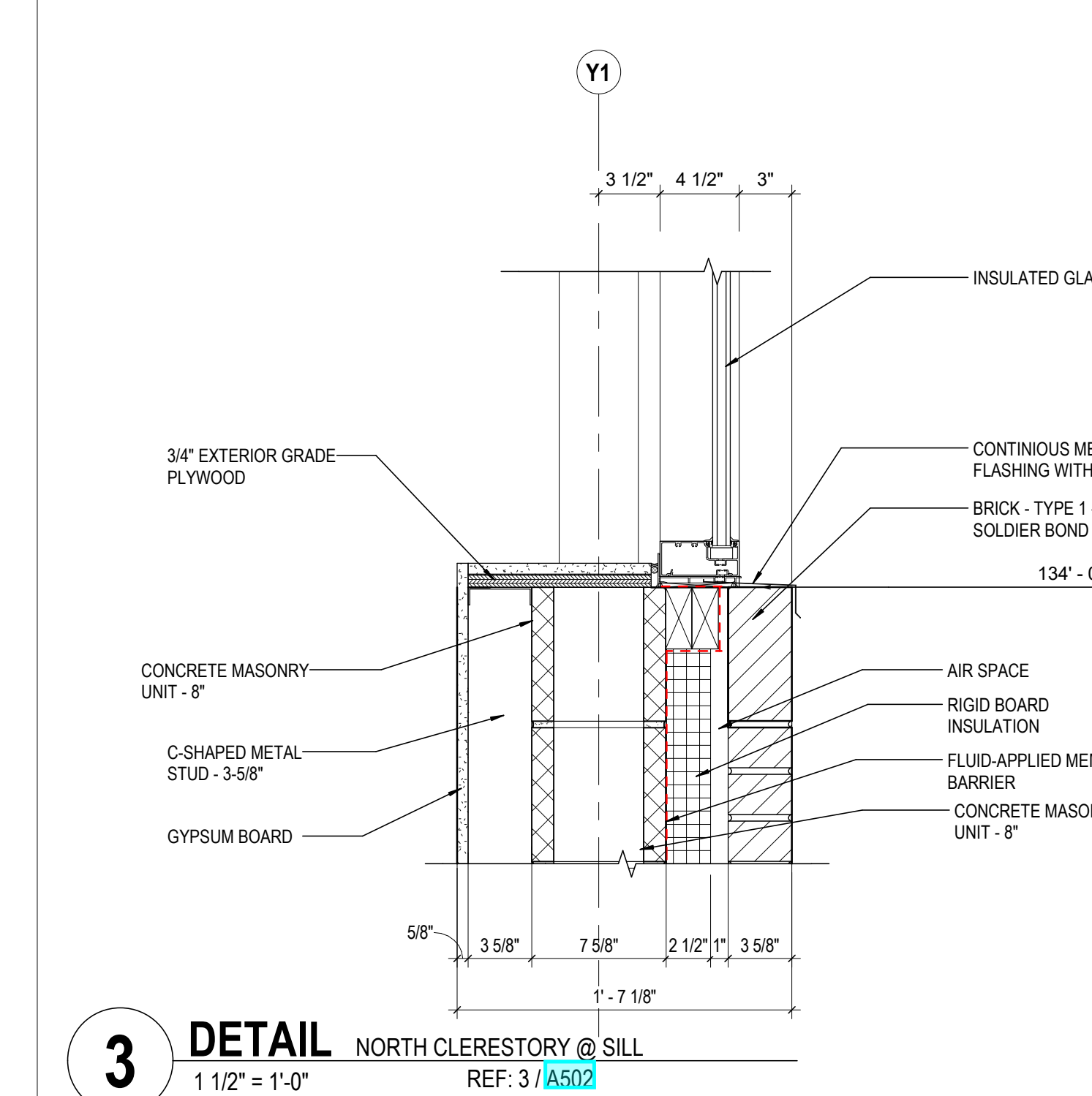
**4 DETAIL** NORTH CLERESTORY @ HEAD  
 1 1/2" = 1'-0" REF: 3 / A502



**2 DETAIL** SF HEAD @ SECOND FLOOR  
 1 1/2" = 1'-0" REF: 4 / A501



**1 DETAIL** SF SILL @ SECOND FLOOR  
 1 1/2" = 1'-0" REF: 4 / A501



**3 DETAIL** NORTH CLERESTORY @ SILL  
 1 1/2" = 1'-0" REF: 3 / A502

**GENERAL NOTES - EXTERIOR DETAILS**

1. PROVIDE DAMPROOF MASONRY FOR ALL BELOW GRADE

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
04 00 00 B1A	BRICK - TYPE 1 - 1/3 OFFSET BOND
04 00 00 B1C	BRICK - TYPE 1 - SOLDIER BOND
04 00 00 C4	CONCRETE MASONRY UNIT - 8"
04 00 00 P2	BOND BEAM - 8"
04 00 00 X1	THROUGH-WALL FLASHING
04 00 00 X15	WEEP
04 00 00 X16	MORTAR NET
04 00 00 Z1	AIR SPACE
04 05 16	MASONRY GROUTING
05 12 00 A1	STEEL ANGLE SHAPE
05 12 00 B2	STEEL BEAM - SEE STRUCTURAL DWG
05 31 00 A1	ROOF DECK
05 40 00 A4	C-SHAPED METAL STUD - 3.58"
05 40 00 A6	3.58" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 40 00 A8	6" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 40 00 A10	8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 50 00 H1	STEEL STAIR
05 50 00	FORMED METAL FABRICATIONS
06 10 00 A1	WOOD BLOCKING
06 10 50 B1	3/4" EXTERIOR GRADE PLYWOOD
07 21 00 A1	RIGID BOARD INSULATION
07 22 19 A2	3.58" NAILABLE WALL INSULATION PANELS
07 27 26	FLUID-APPLIED MEMBRANE AIR BARRIER
07 42 13 B2	FLASHING
07 42 13 D1	SUPPORT (SUBGIRT)
07 42 13 G1	2 1/2" THERMALLY BROKEN HORIZONTAL ZEE
07 42 13 G3	HORIZONTAL ZEE
07 42 13 H1	J-CHANNEL
07 46 10 A1	METAL SIDING - TYPE 1
07 46 10 A2	METAL SIDING - TYPE 2
07 54 23 A2	FULLY ADHERED TPO ROOFING
07 54 23 B1	ROOF INSULATION
07 54 23 B3	COVER BOARD
07 54 23 B4	TAPERED INSULATION
07 62 00 F1	GRAVEL STOP
07 62 00 G1	FLASHING
07 62 00 H4	CONTINUOUS METAL SILL FLASHING WITH END DAMS
07 62 00 H5	MEMBRANE FLASHING
07 62 99 M1	TERMINATION BAR
07 92 00 H3	SEALANT & BACKER ROD
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 41 13 B1	ALUMINUM STOREFRONT SYSTEM
08 44 13 C1	ALUMINUM FLASHING
08 51 00 A1	INSULATED GLAZING
09 21 16 G1	RIGID FURRING CHANNEL - HAT-SHAPED
09 21 16 M1	GYPSON BOARD
09 21 16 M5	EXTERIOR GYPSON SHEATHING
09 51 13 B	ACOUSTICAL CEILING UNIT
11 51 16	BOOK DEPOSITORIES

#	DATE	CHANGE DESCRIPTION
1	03/27/2020	BULLETIN 02

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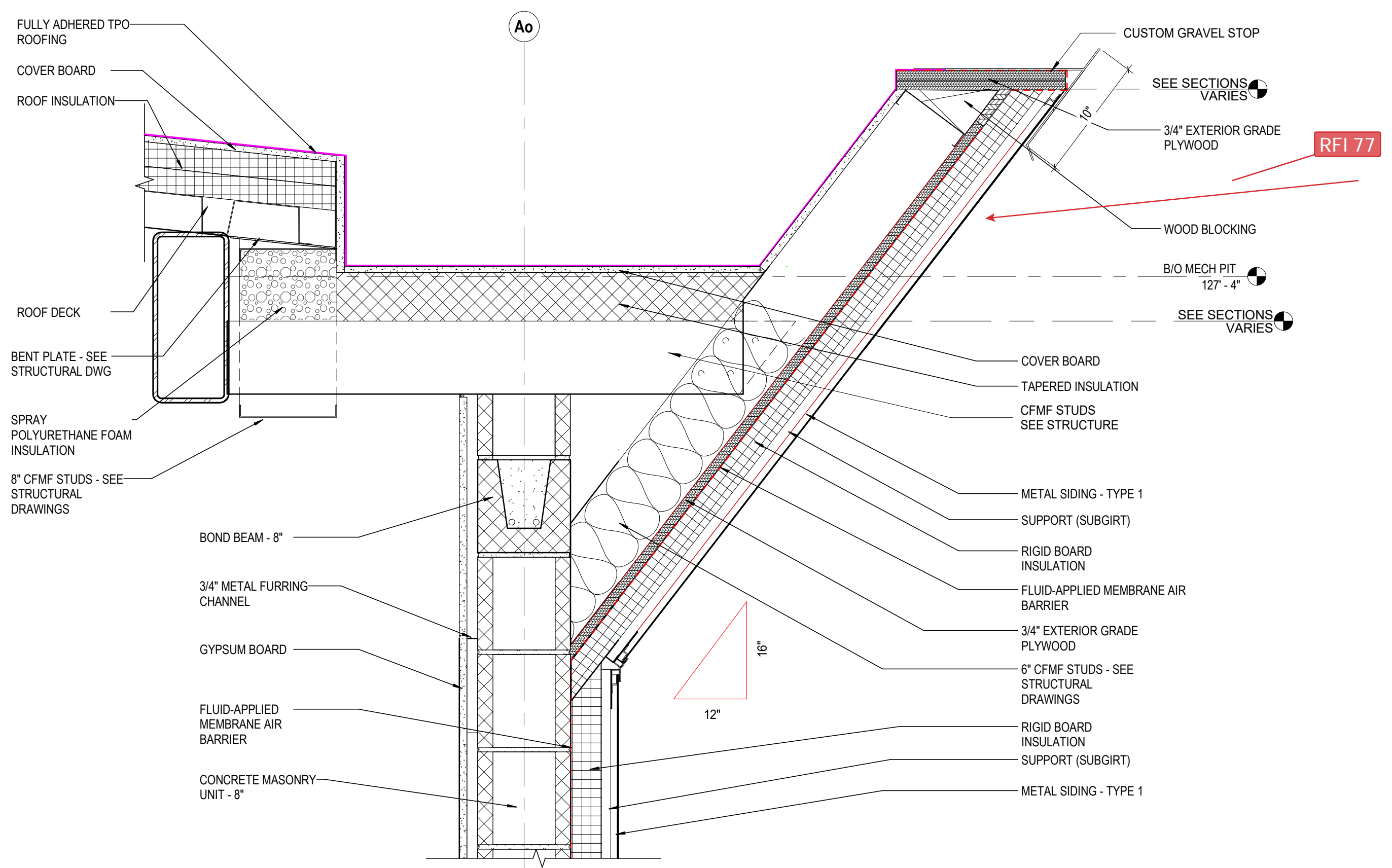
300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

DRAWING TITLE: **SECTION DETAILS**

FEBRUARY 21, 2020  
 DRAWN BY: KG CHECKED BY: HBLB  
 18428  
**A511**  
 PERMIT SET

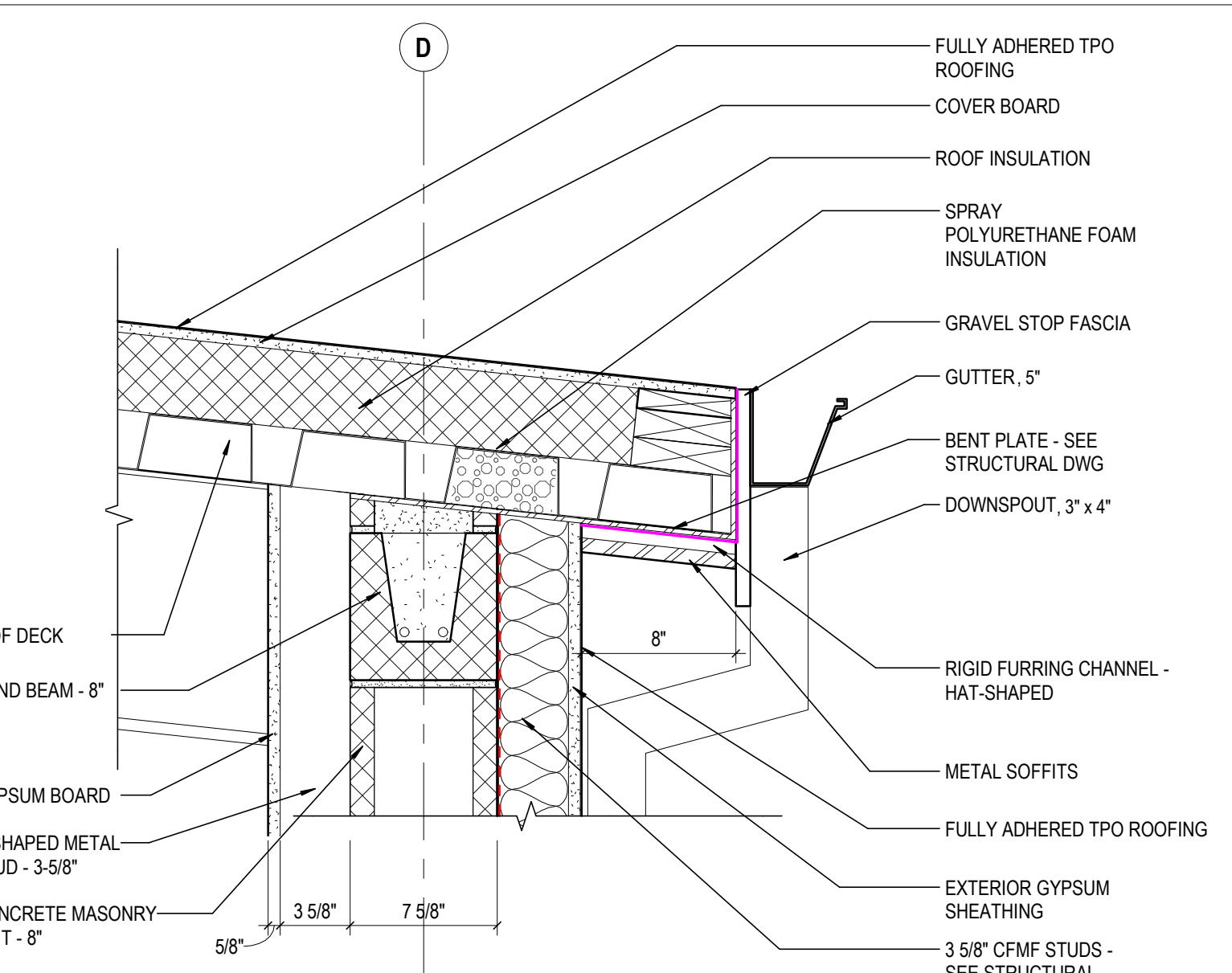
CURTIS J. MOODY, LIC. #7096  
 EXP. DATE: 12/31/2019



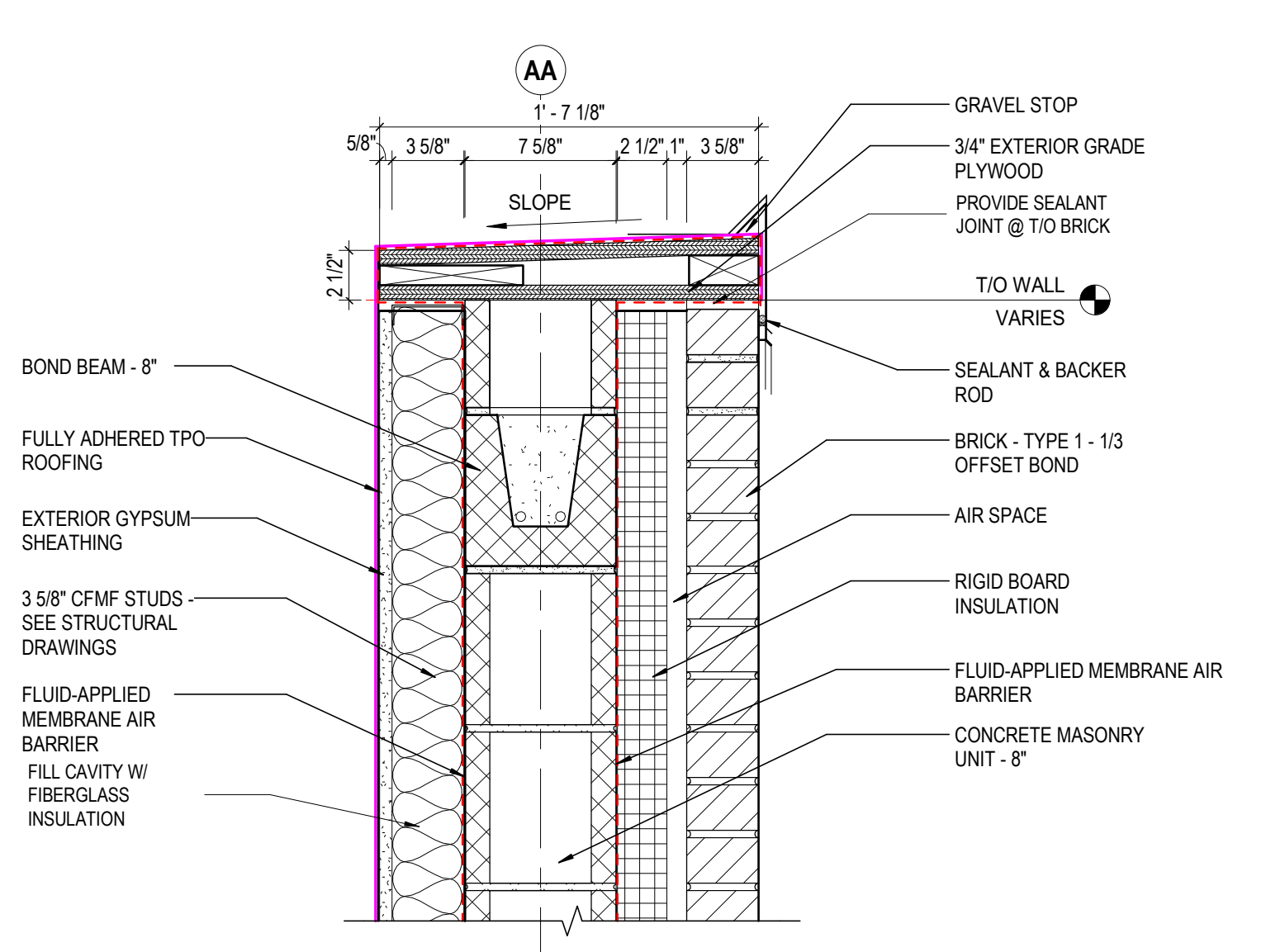


**12 DETAIL** MTL PANEL ON CMU @ ROOF  
1 1/2" = 1'-0" REF: 2 / A501

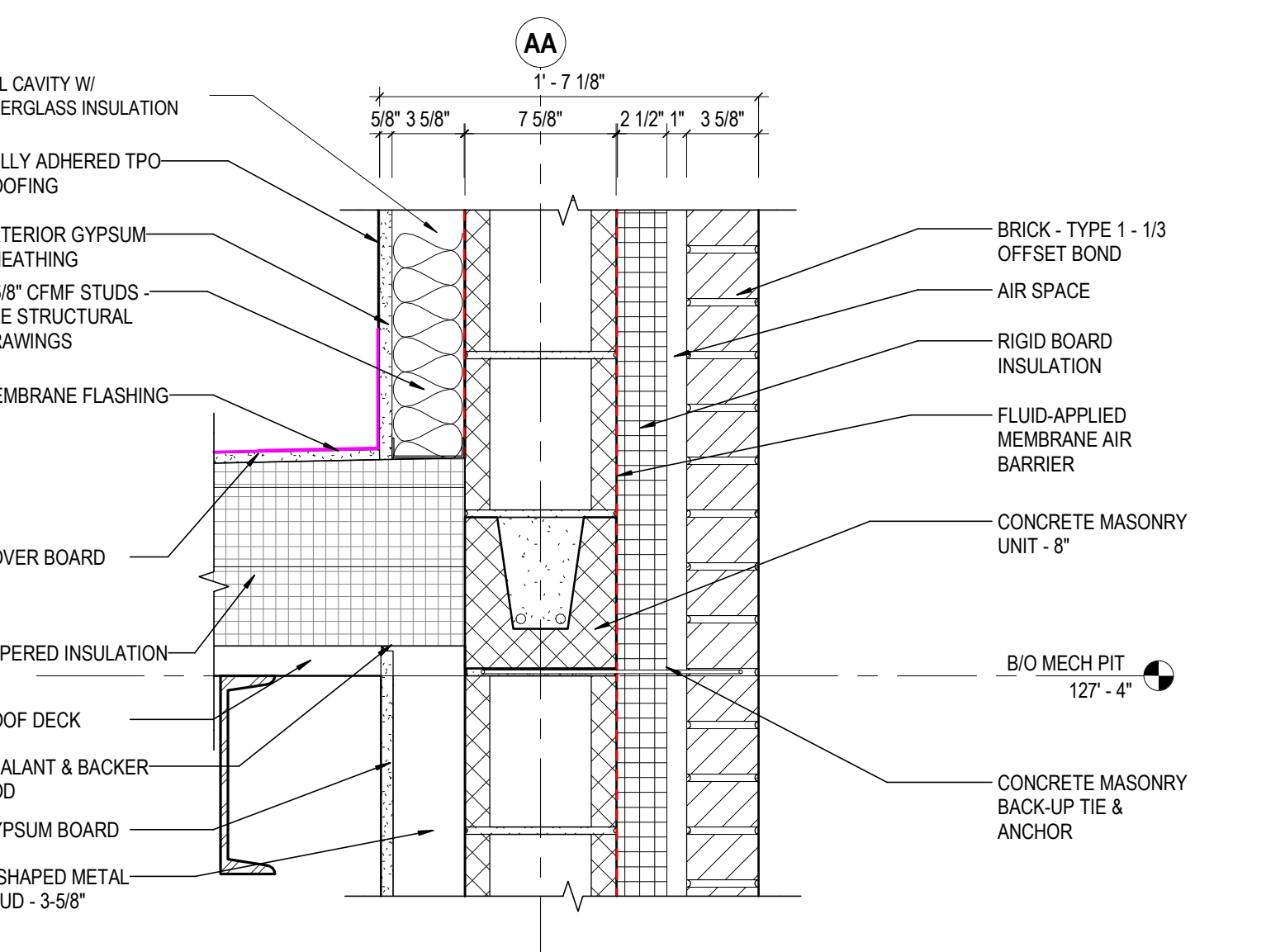
**7 DETAIL** NORTH WALL MECH PIT  
1 1/2" = 1'-0" REF: 10 / A501



**6 DETAIL** SOUTH WALL MECH PIT @ ROOF  
1 1/2" = 1'-0" REF: 9 / A501

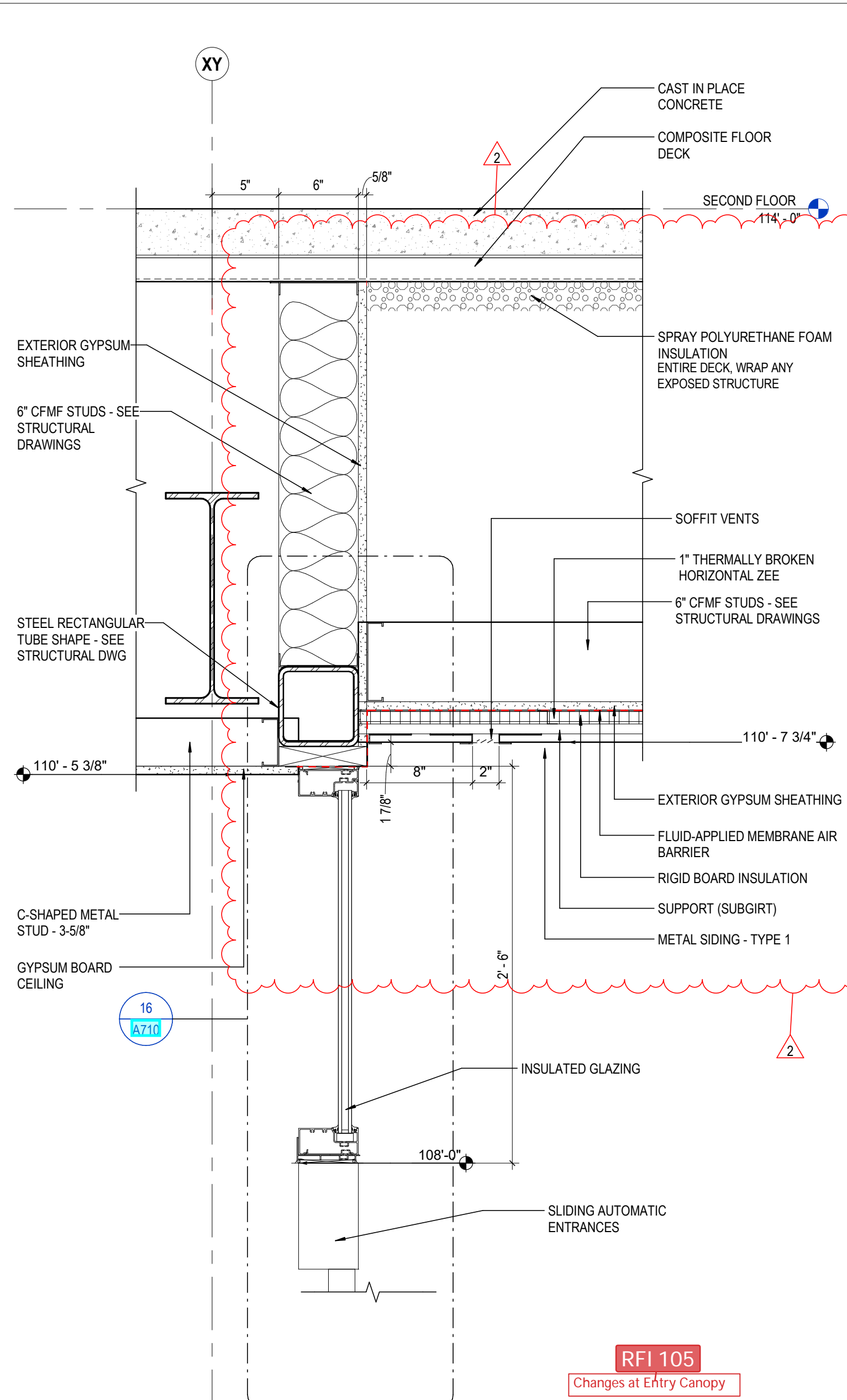


**5 DETAIL** MECHANICAL PIT PARAPET  
1 1/2" = 1'-0" REF: 6 / A502

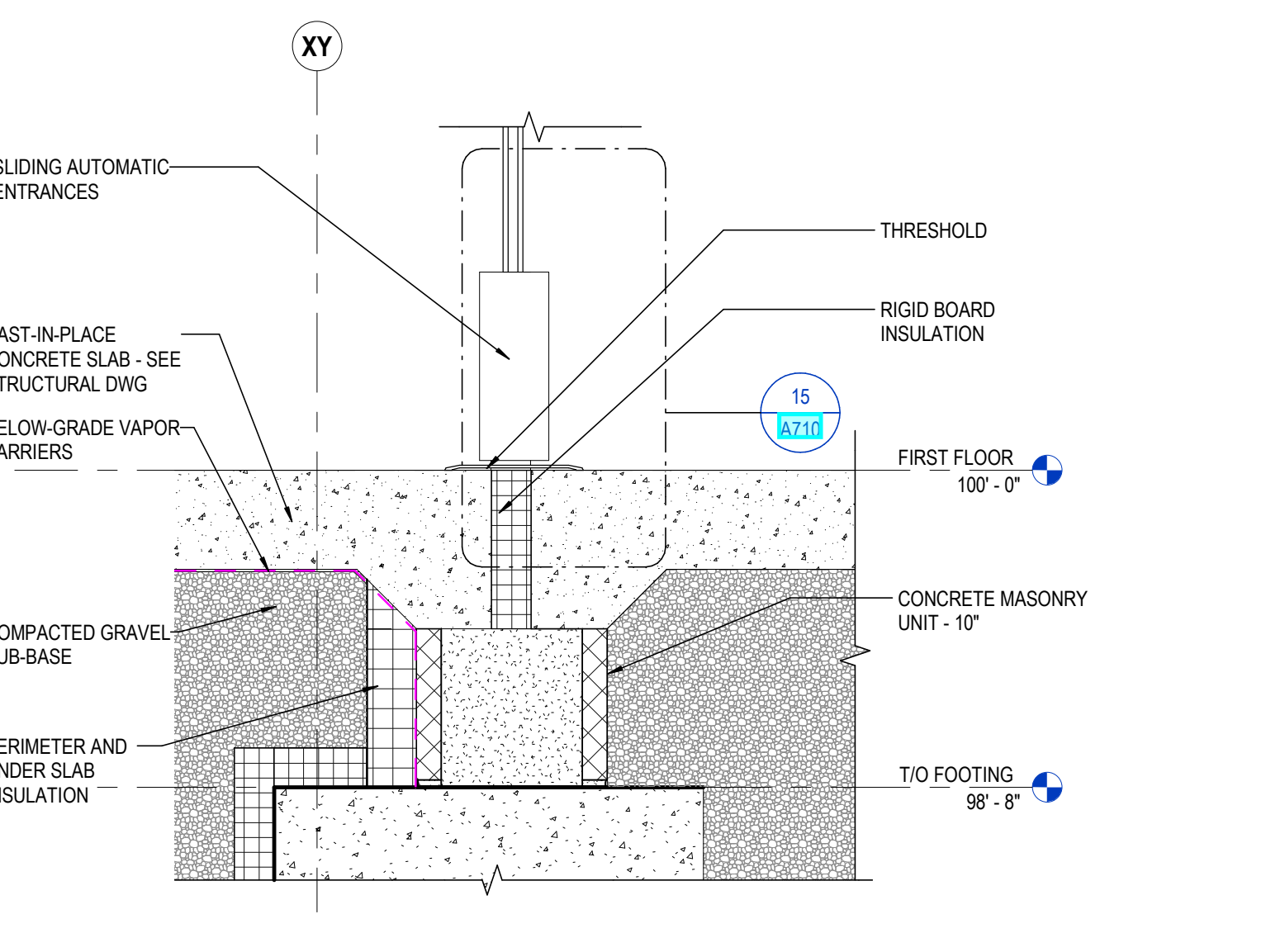


**4 DETAIL** MECHANICAL PIT @ EXT WALL  
1 1/2" = 1'-0" REF: 6 / A502

**3 DETAIL** MECH PIT @ LOWER LEVEL  
1 1/2" = 1'-0" REF: 9 / A501

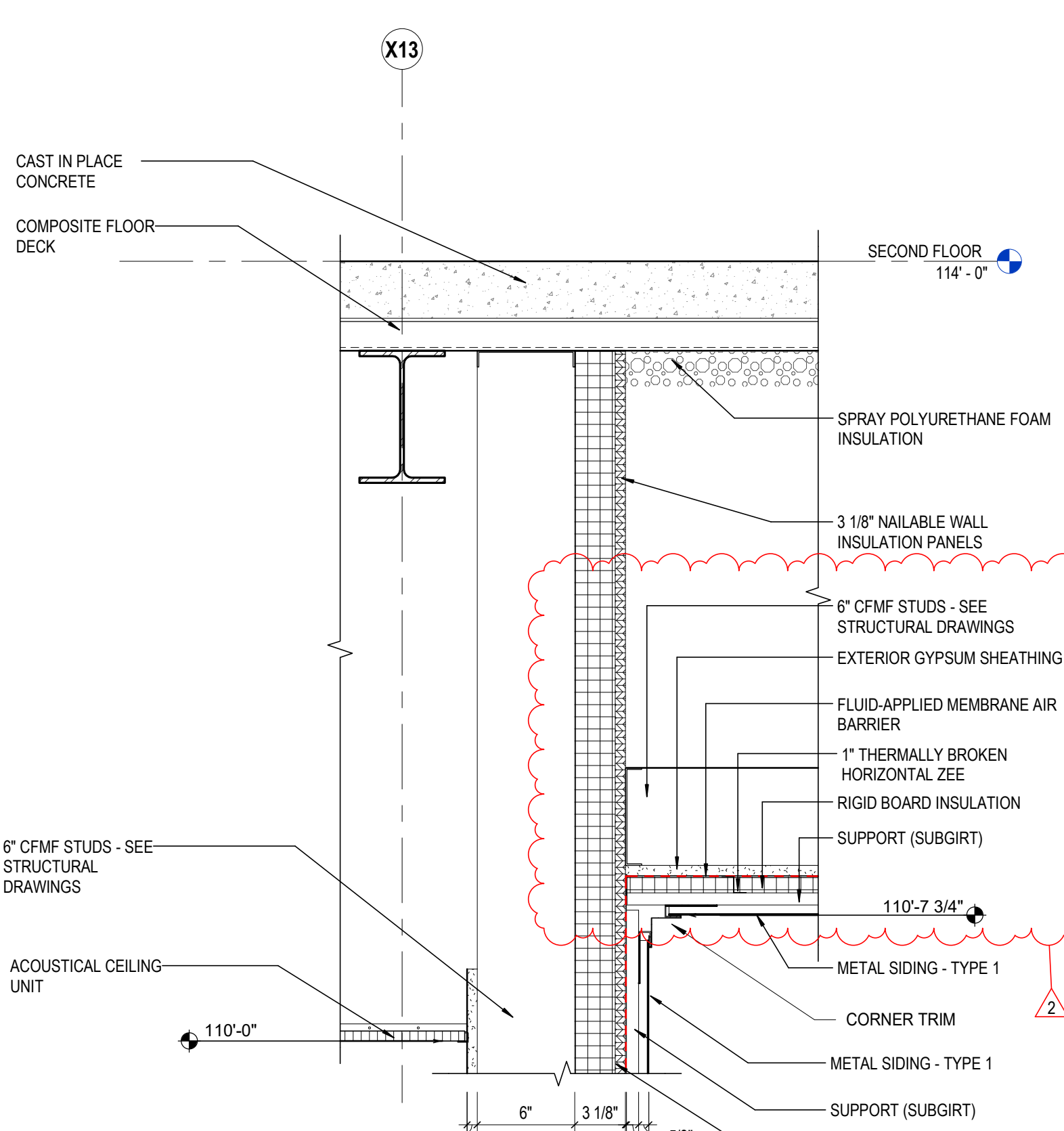


**2 DETAIL** EAST SF ENTRY @ HEAD  
1 1/2" = 1'-0" REF: 1 / A502



**1 DETAIL** SF ENTRY THRESHOLD  
1 1/2" = 1'-0" REF: 1 / A502

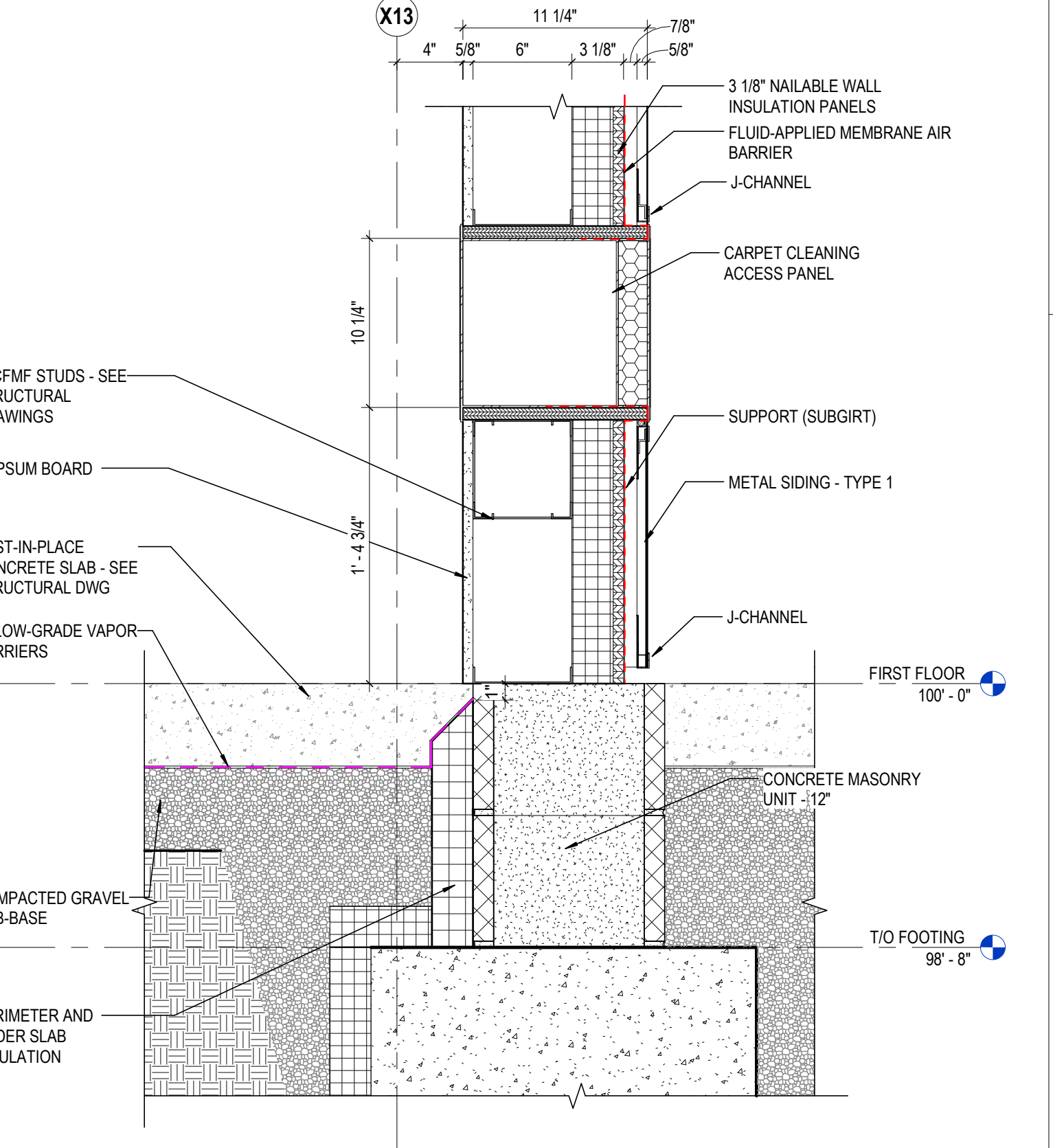
**11 DETAIL** MTL PANEL ON CMU @ FLOOR  
1 1/2" = 1'-0" REF: 2 / A501



**10 DETAIL** METAL PANEL @ SOFFIT  
1 1/2" = 1'-0" REF: 11 / A501



**9 DETAIL** MTL PANEL ON CMU @ GRADE  
1 1/2" = 1'-0" REF: 2 / A501



**8 DETAIL** MTL PANEL ON STUD @ GRADE  
1 1/2" = 1'-0" REF: 11 / A501



**GENERAL NOTES - EXTERIOR DETAILS**

- PROVIDE DAMPROOF MASONRY FOR ALL BELOW GRADE

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
03 30 00 A1	CAST IN PLACE CONCRETE
03 30 00 D1	CAST-IN-PLACE CONCRETE SLAB - SEE STRUCTURAL DWG
04 00 00 B1A	BRICK - TYPE 1 - 1/3 OFFSET BOND
04 00 00 D4	CONCRETE MASONRY UNIT - 8"
04 00 00 D5	CONCRETE MASONRY UNIT - 10"
04 00 00 D6	CONCRETE MASONRY UNIT - 12"
04 00 00 P2	BOND BEAM - 8"
04 00 00 W8	CONCRETE MASONRY BACK-UP TIE & ANCHOR
04 00 00 Z1	AIR SPACE
05 12 00 A1	STEEL ANGLE SHAPE
05 12 00 B5	BENT PLATE - SEE STRUCTURAL DWG
05 12 00 C1	STEEL RECTANGULAR TUBE SHAPE - SEE STRUCTURAL DWG
05 31 00 A1	ROOF DECK
05 31 00 B2	COMPOSITE FLOOR DECK
05 40 00 A4	C-SHAPED METAL STUD - 3-5/8"
05 40 00 A6	3-5/8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 40 00 A8	6" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 40 00 A10	8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
06 10 00 A1	WOOD BLOCKING
06 10 50 B1	3/4" EXTERIOR GRADE PLYWOOD
07 21 00 A1	RIGID BOARD INSULATION
07 21 00 D1	PERIMETER AND UNDER SLAB INSULATION
07 21 00 D1	SPRAY POLYURETHANE FOAM INSULATION
07 22 19 A1	3-1/2" NAILED WALL INSULATION PANELS
07 26 16	BELOW-GRADE VAPOR BARRIERS
07 27 26	FLUID-APPLIED MEMBRANE AIR BARRIER
07 42 13 B2	FLASHING
07 42 13 D1	SUPPORT (SUBGIRT)
07 42 13 G1	2-1/2" THERMALLY BROKEN HORIZONTAL ZEE
07 42 13 G5	1" THERMALLY BROKEN HORIZONTAL ZEE
07 42 13 H1	J-CHANNEL
07 46 10 A1	METAL SIDING - TYPE 1
07 54 23 A2	FULLY ADHERED TPO ROOFING
07 54 23 B1	ROOF INSULATION
07 54 23 B3	COVER BOARD
07 54 23 B4	TAPERED INSULATION
07 62 00 A1	GUTTER
07 62 00 D1	DOWNSPOUT
07 62 00 F1	GRAVEL STOP
07 62 00 H1	GRAVEL STOP FASCIA
07 62 00 H5	MEMBRANE FLASHING
07 92 00 H3	SEALANT & BACKER ROD
08 31 13 A1	CARPET CLEANING ACCESS PANEL
08 42 29	SLIDING AUTOMATIC ENTRANCES
08 71 13 D1	THRESHOLD
08 81 00 A1	INSULATED GLAZING
08 95 13	SOFFIT VENTS
09 21 16 A8	3/4" METAL FURRING CHANNEL - HAT-SHAPED
09 21 16 G1	RIGID FURRING CHANNEL - HAT-SHAPED
09 21 16 M1	EXTERIOR GYPSUM SHEATHING
09 21 16 M5	GYPSUM BOARD CEILING
09 21 16 M14	GYPSUM BOARD CEILING
09 54 25	METAL SOFFITS
01 30 00 B2	COMPACTED GRAVEL SUB-BASE

#	DATE	CHANGE DESCRIPTION
1	01/24/2020	ADDENDUM 02
2	03/12/2021	BULLETIN 07

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DRAWING TITLE: **SECTION DETAILS**

DATE: **FEBRUARY 21, 2020**

DRAWN BY: **KG** CHECKED BY: **HBBL**

PROJECT: **18428**

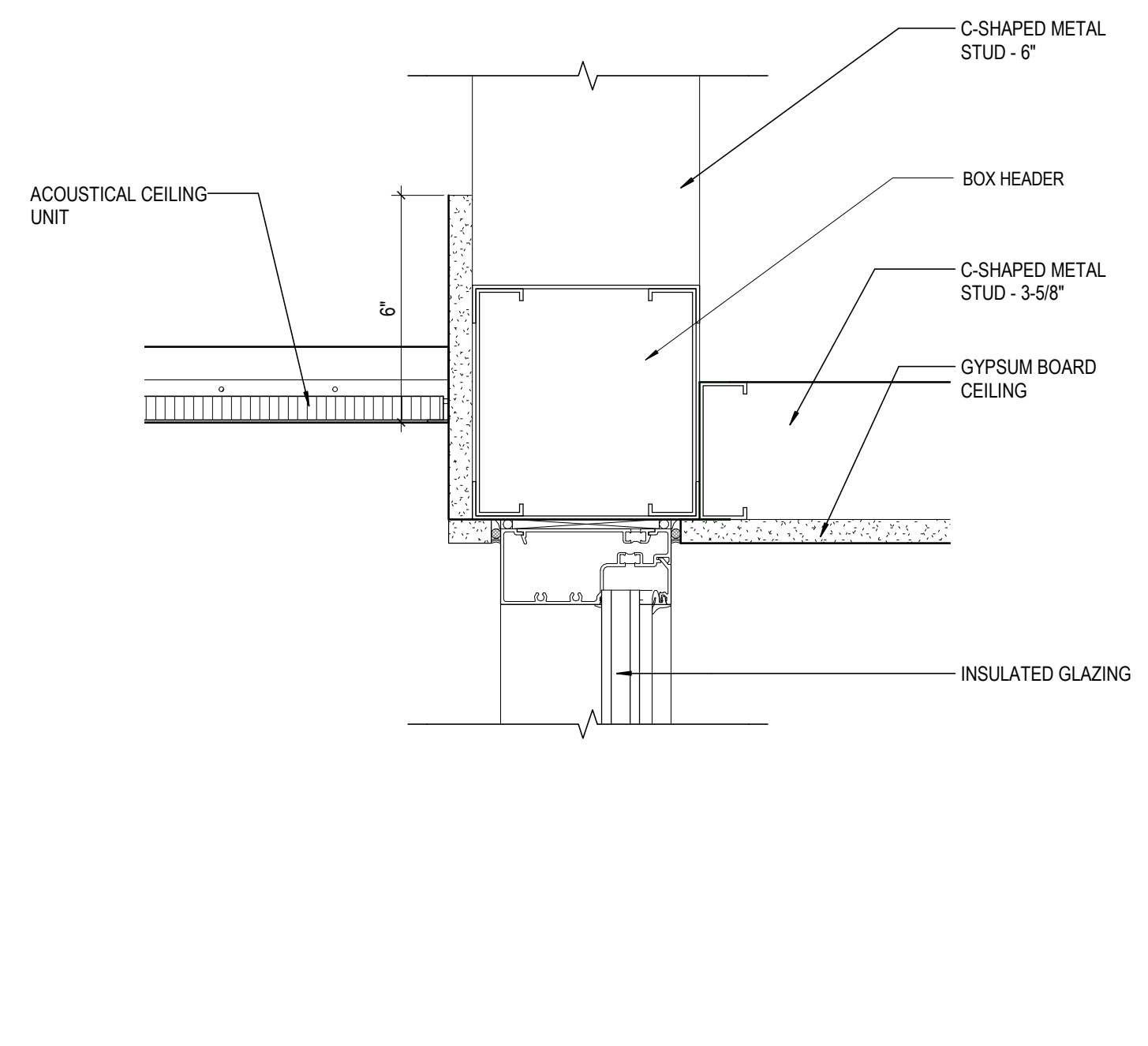
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PERMIT SET

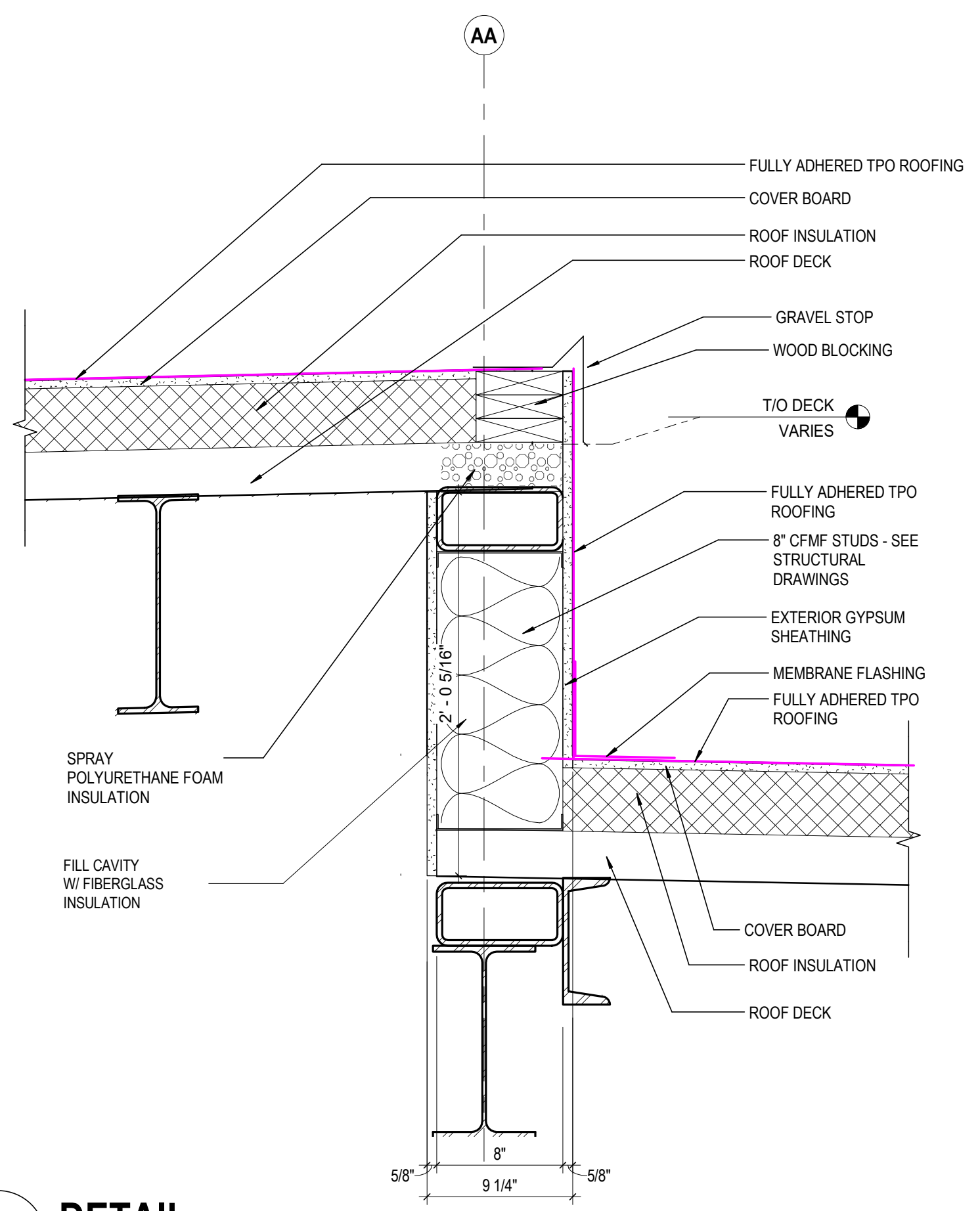
CURTIS J. MOODY, LIC. #7096  
EXP. DATE: 12/31/2019



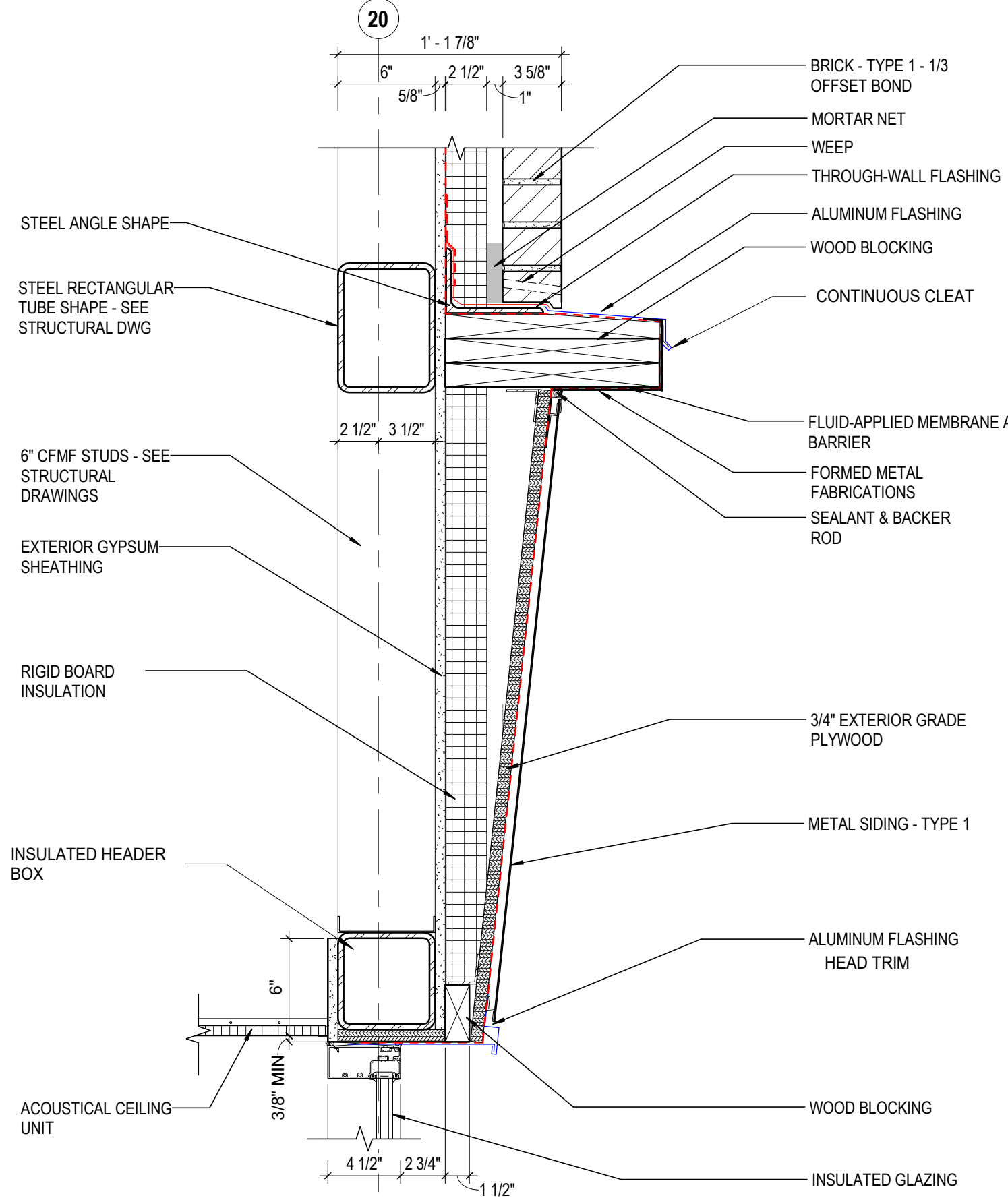
**RFI 93**  
Head Detail  
Clarification at the  
Main Entry  
 vestibule door



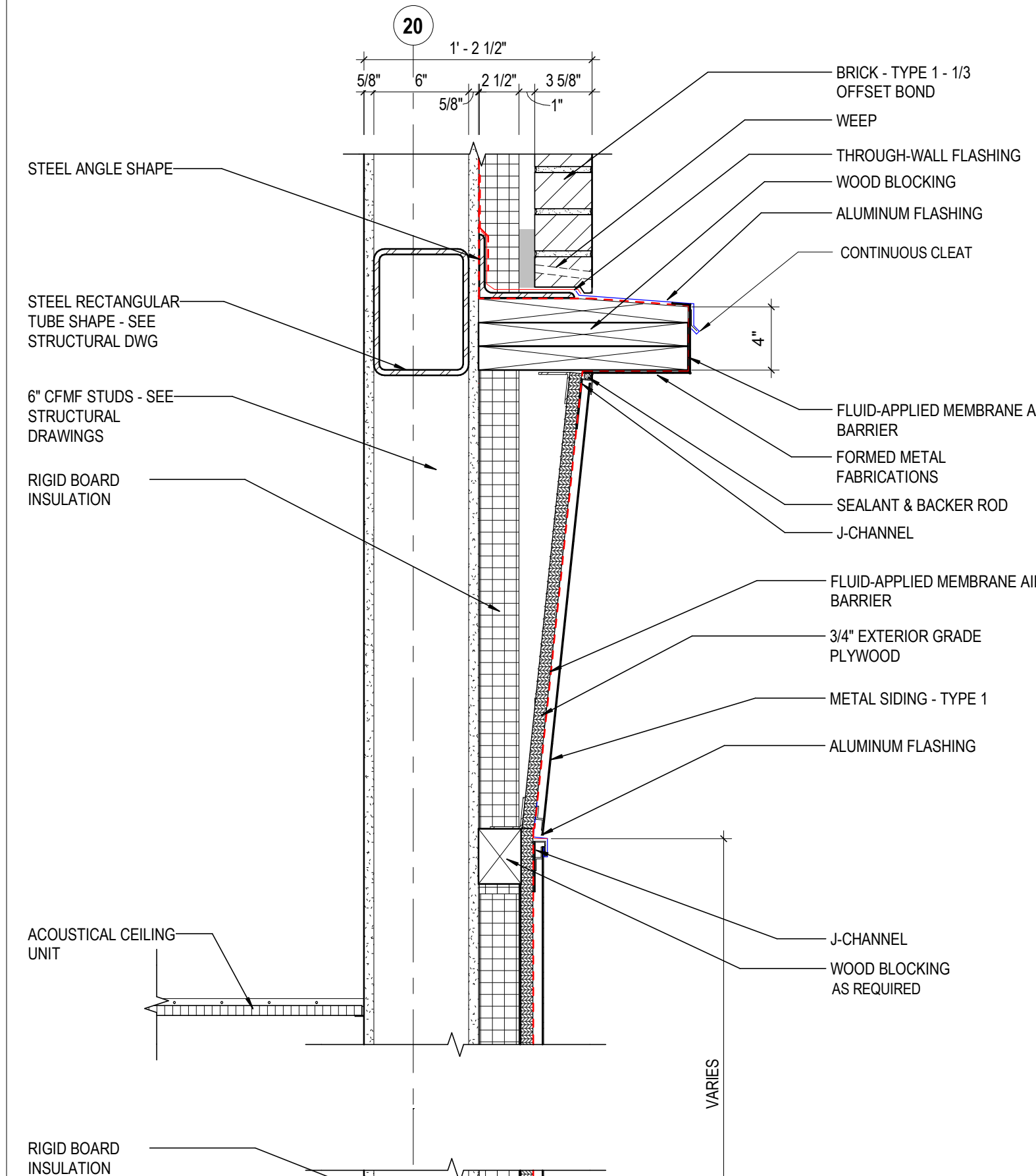
**11 DETAIL** HEAD @ INT. SLIDING DOOR  
3\"/>



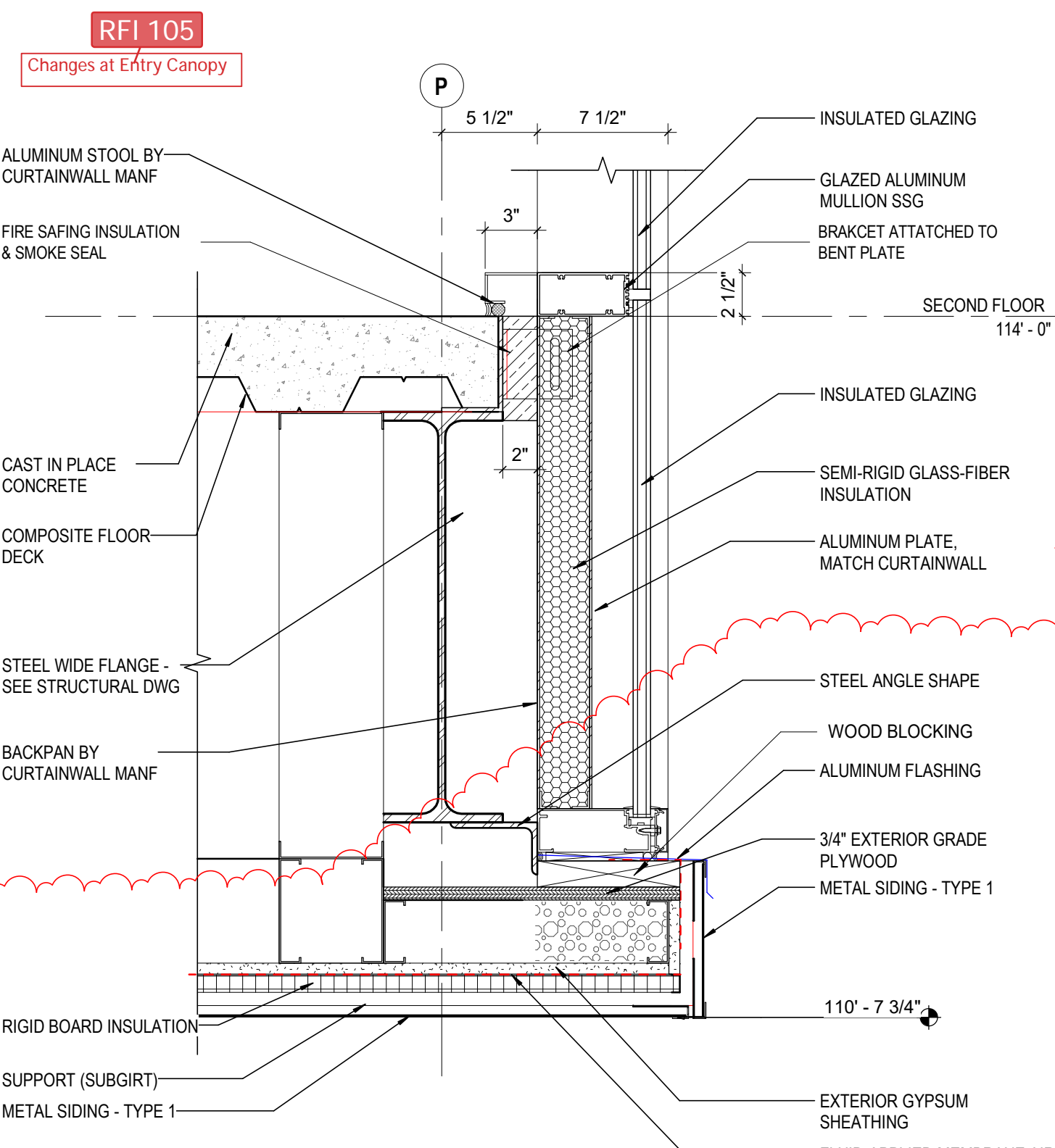
**8 DETAIL** ROOF TRANSITION  
1 1/2\"/>



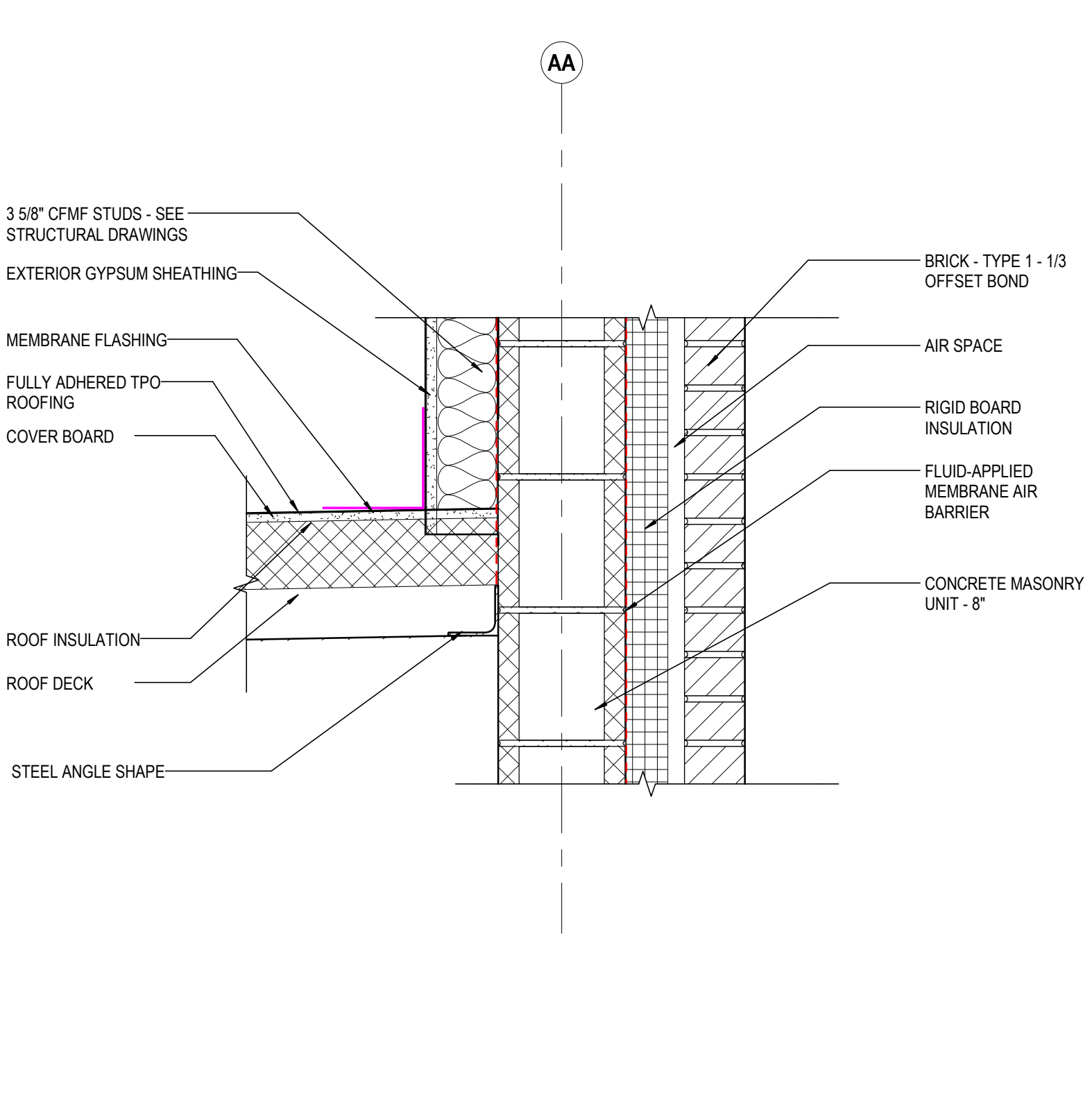
**5 DETAIL** SF HEAD @ SECOND FLR MTL STD  
1 1/2\"/>



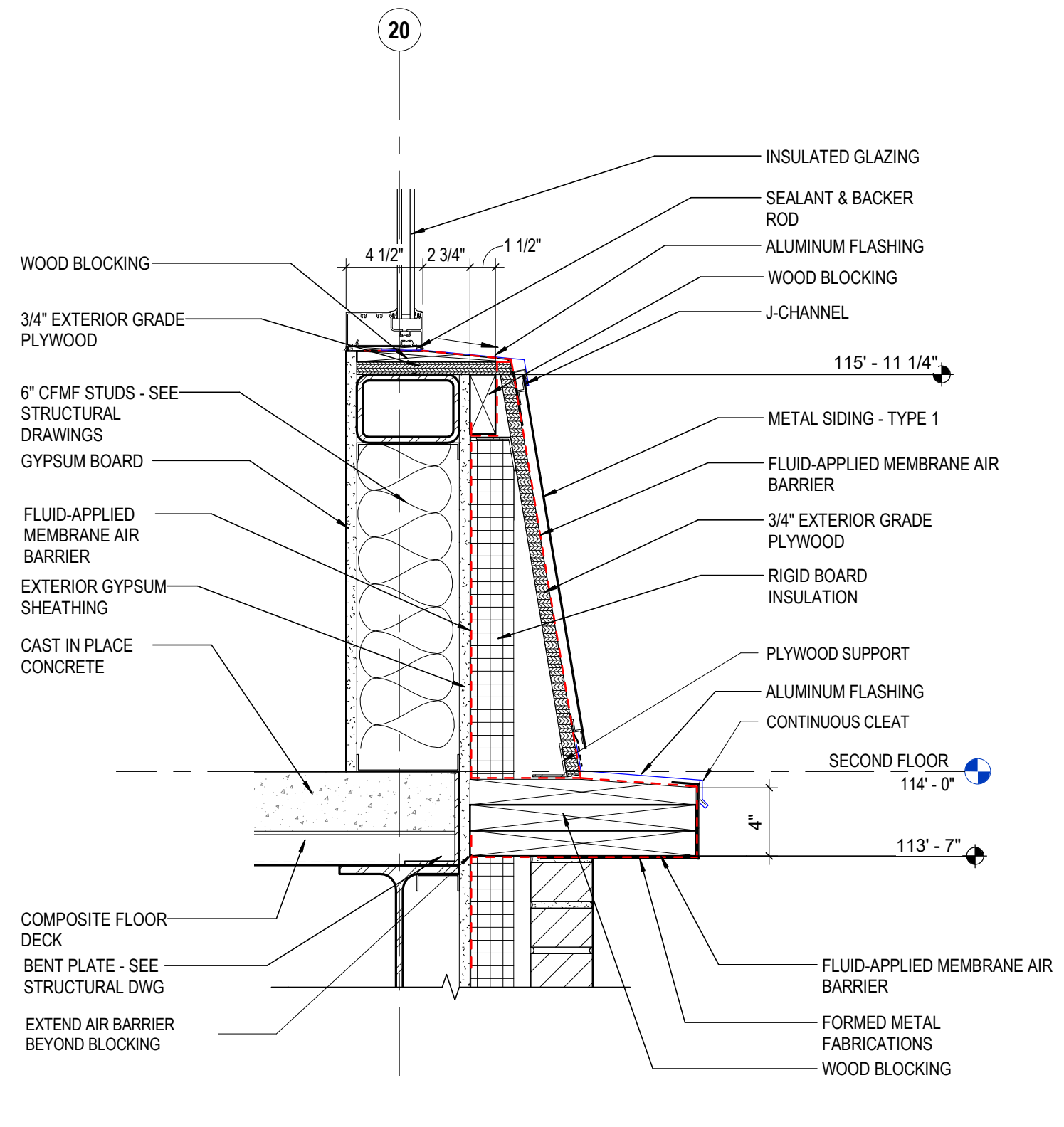
**2 DETAIL** MTL PANEL UPPPER TRANSITION  
1 1/2\"/>



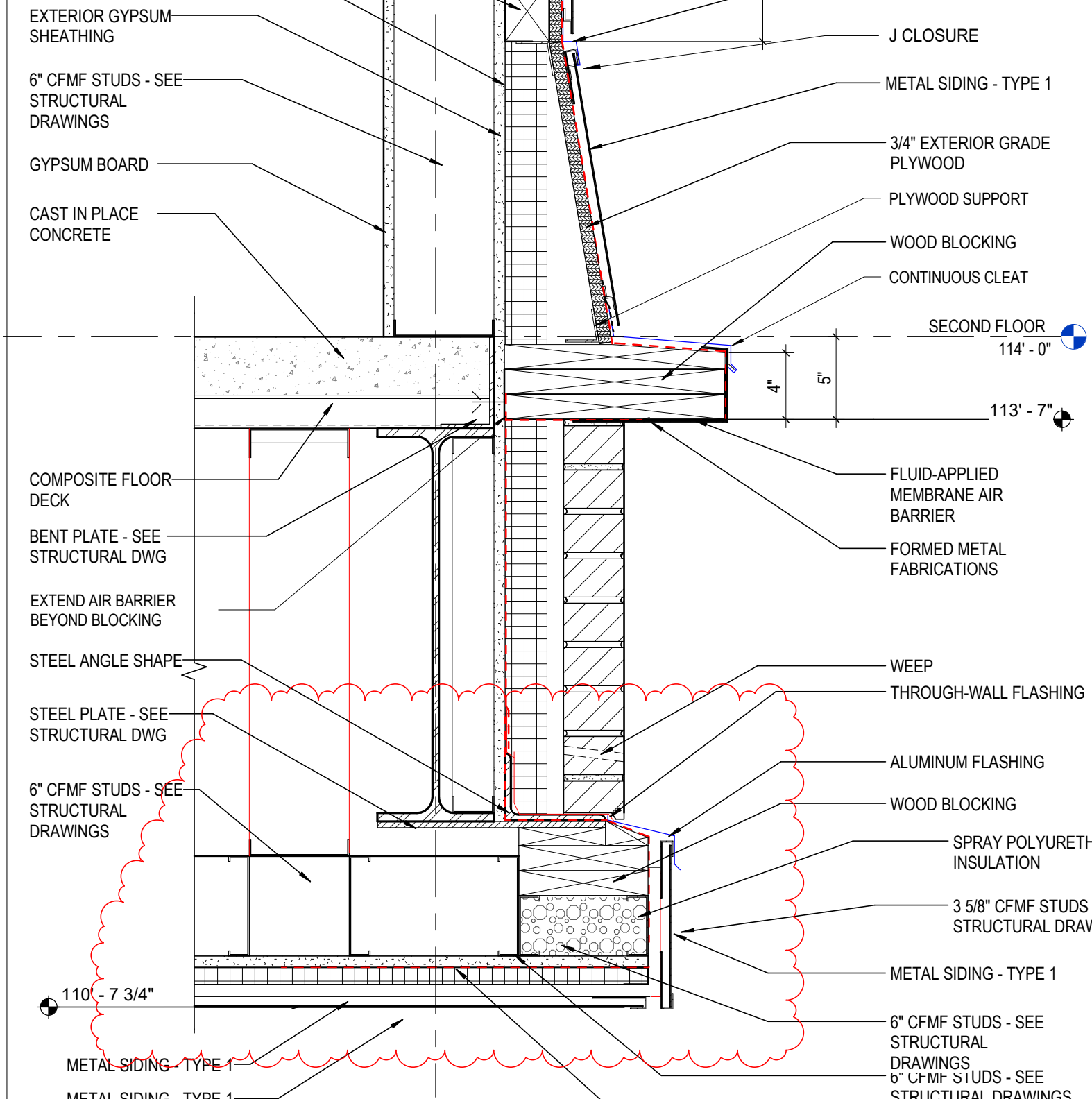
**10 DETAIL** CW @ ENTRY  
1 1/2\"/>



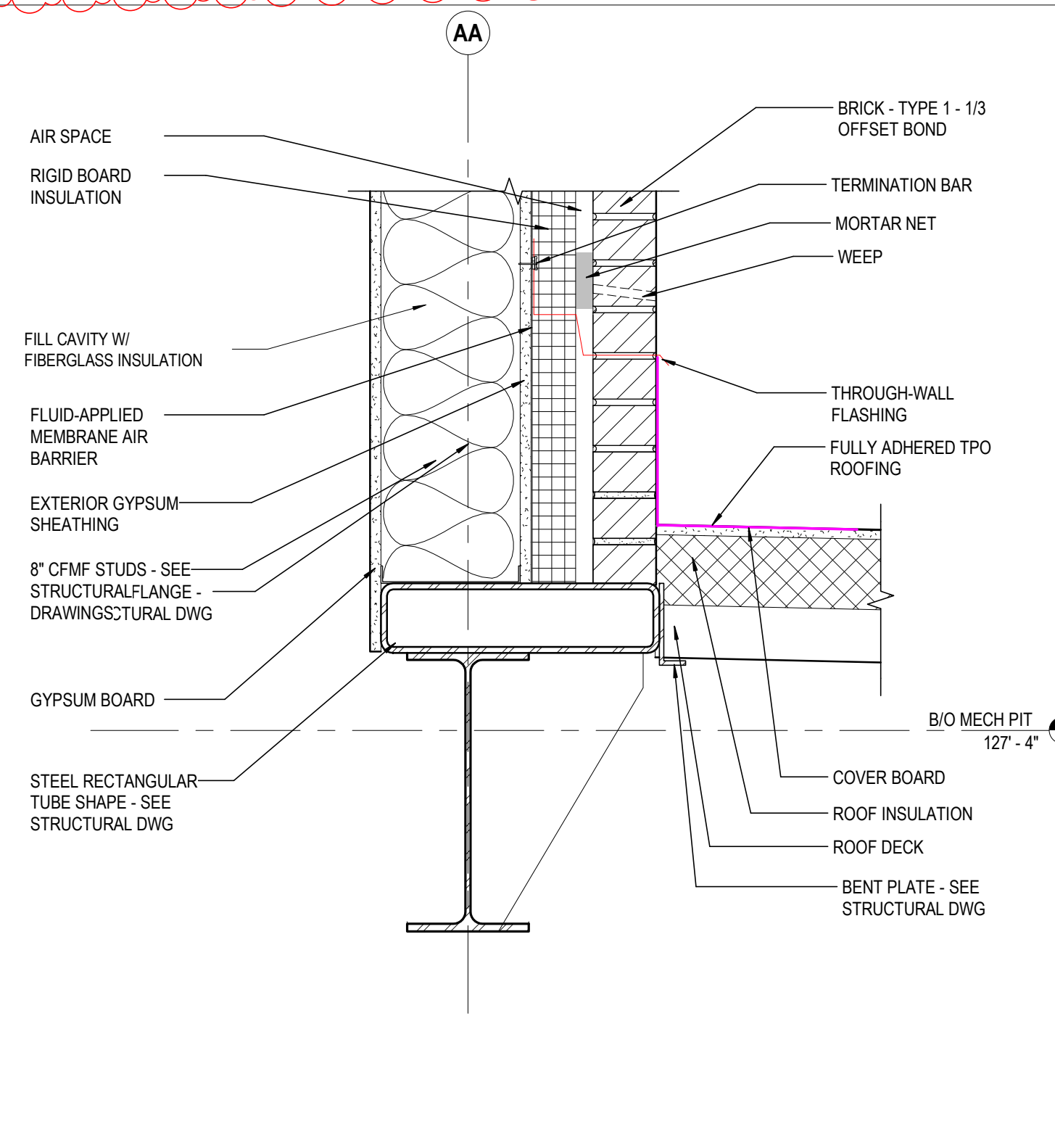
**7 DETAIL** PARAPET AT LOWER ROOF  
1 1/2\"/>



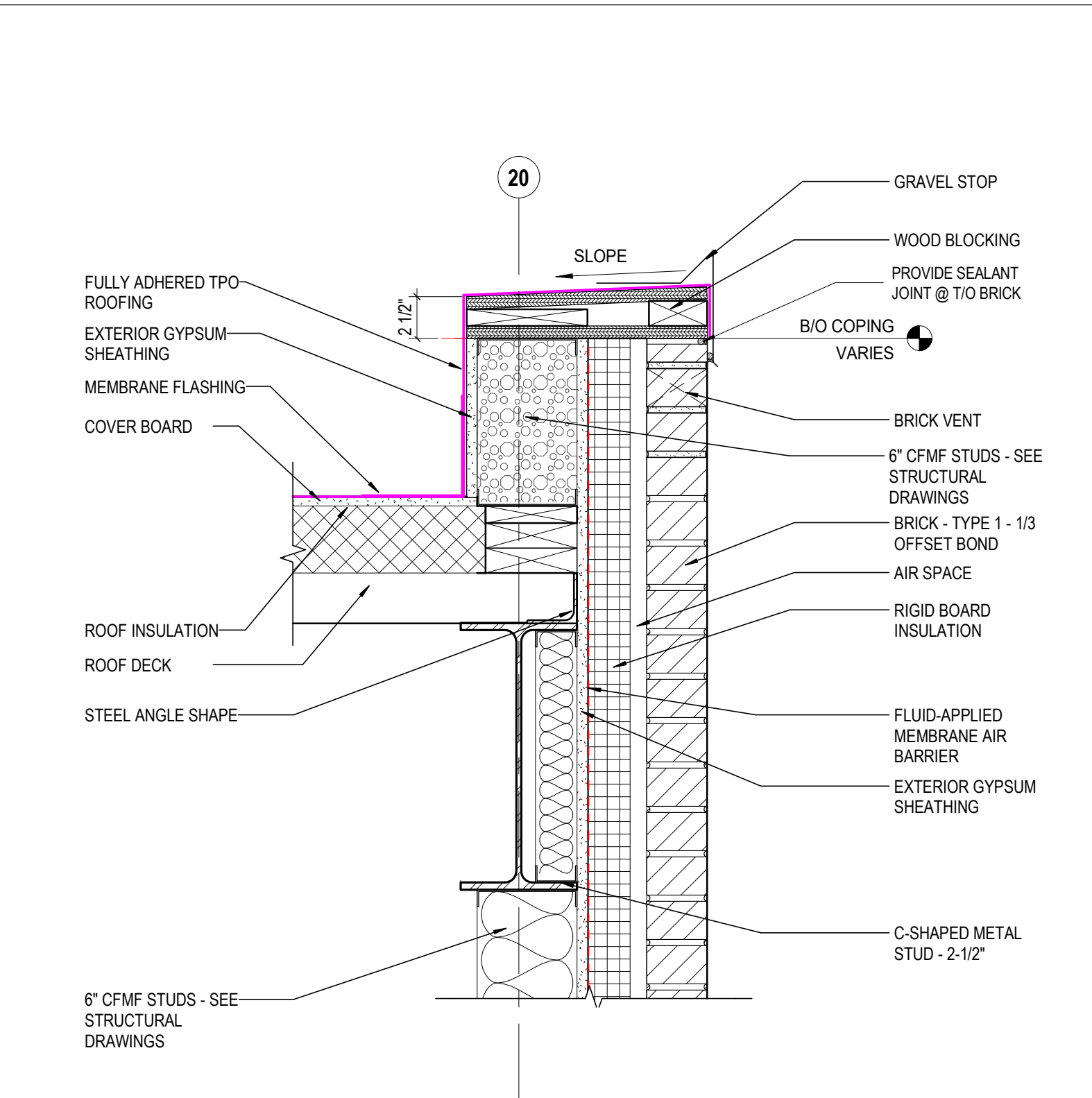
**4 DETAIL** SF SILL @ SECOND FLR MTL STD  
1 1/2\"/>



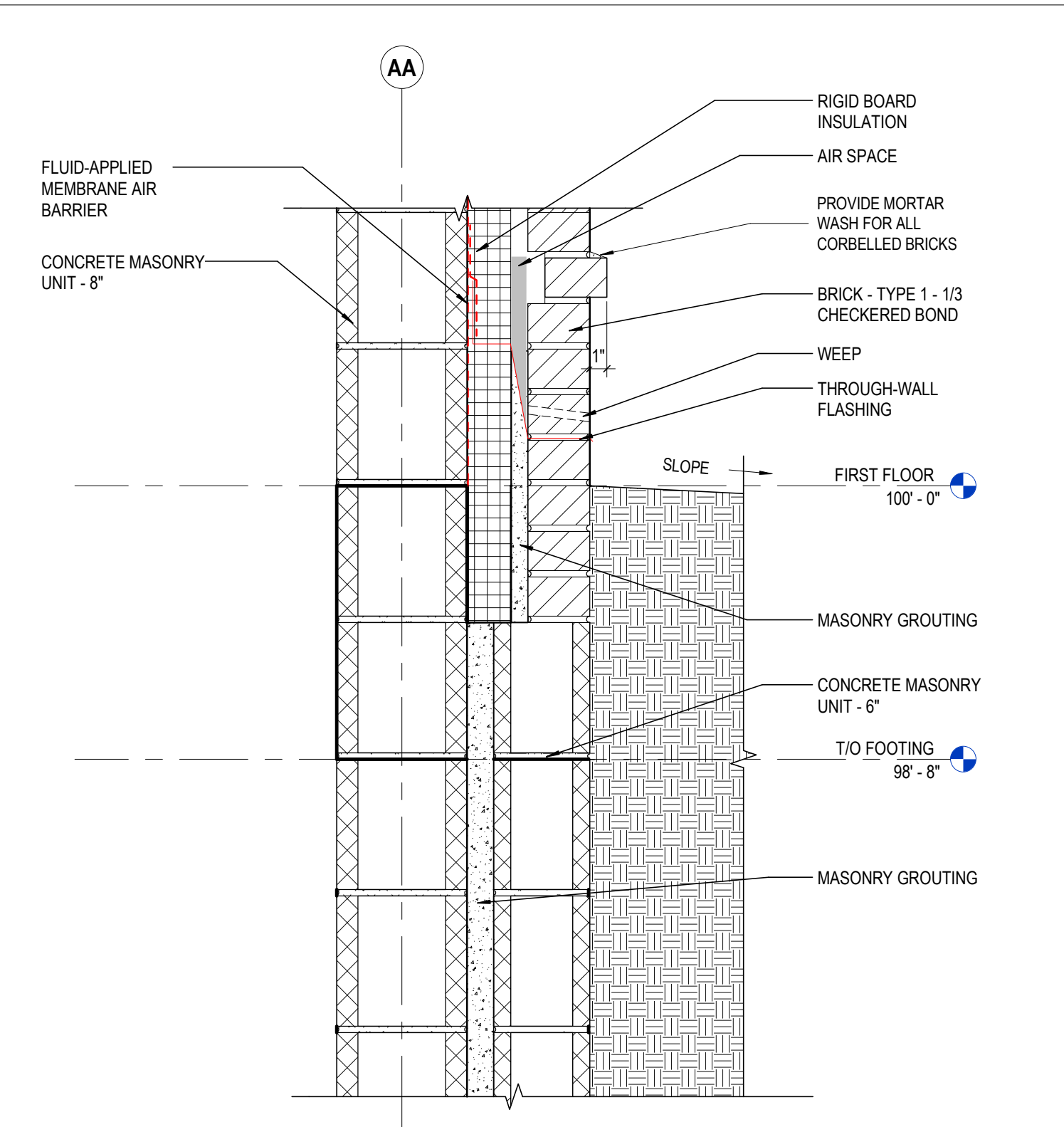
**1 DETAIL** BRICK ON CMU @ FLOOR  
1 1/2\"/>



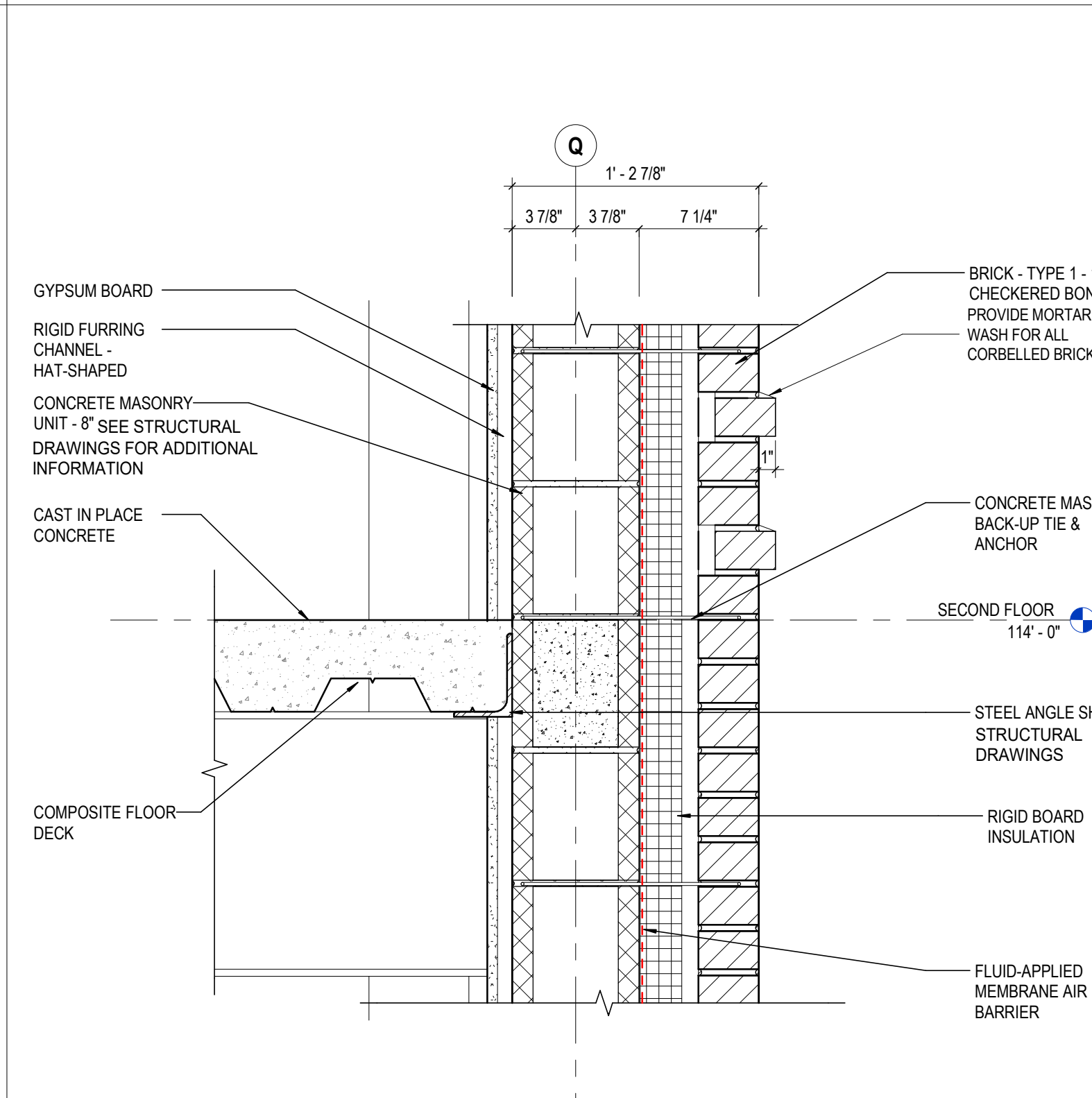
**9 DETAIL** BRICK ON MTL STD @ LOWER ROOF  
1 1/2\"/>



**6 DETAIL** BRICK ON MTL STD @ COPING  
1 1/2\"/>



**3 DETAIL** EXT. WALL @ ELEVATOR  
1 1/2\"/>



**1 DETAIL** BRICK ON CMU @ FLOOR  
1 1/2\"/>

**GENERAL NOTES - EXTERIOR DETAILS**

- PROVIDE DAMPPROOF MASONRY FOR ALL BELOW GRADE

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
03 30 00 A1	CAST IN PLACE CONCRETE
04 00 00 B1A	BRICK - TYPE 1 - 1/3 OFFSET BOND
04 00 00 B1B	BRICK - TYPE 1 - 1/3 CHECKERED BOND
04 00 00 D4	CONCRETE MASONRY UNIT - 8"
04 00 00 W8	CONCRETE MASONRY BACK-UP TIE & ANCHOR
04 00 00 X1	THROUGH-WALL FLASHING
04 00 00 X15	WEEP
04 00 00 X16	MORTAR NET
04 00 00 Z1	AIR SPACE
04 05 16	MASONRY GROUTING
04 22 00 A3	CONCRETE MASONRY UNIT - 6"
05 12 00 A1	STEEL ANGLE SHAPE
05 12 00 B1	STEEL WIDE FLANGE - SEE STRUCTURAL DWG
05 12 00 B5	BENT PLATE - SEE STRUCTURAL DWG
05 12 00 B6	STEEL PLATE - SEE STRUCTURAL DWG
05 12 00 C1	STEEL RECTANGULAR TUBE SHAPE - SEE STRUCTURAL DWG
05 31 00 A1	ROOF DECK
05 40 00 A2	COMPOSITE FLOOR DECK
05 40 00 A4	C-SHAPED METAL STUD - 2-1/2"
05 40 00 A4	C-SHAPED METAL STUD - 3-5/8"
05 40 00 A5	C-SHAPED METAL STUD - 6"
05 40 00 A6	3/8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 40 00 A8	6" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 40 00 A10	8" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 58 00	FORMED METAL FABRICATIONS
06 10 00 A1	WOOD BLOCKING
06 10 00 B1	3/4" EXTERIOR GRADE PLYWOOD
07 21 00 A1	RIGID BOARD INSULATION
07 21 00 E1	SEMI-RIGID GLASS-FIBER INSULATION
07 21 00 F1	SPRAY POLYURETHANE FOAM INSULATION
07 27 26	FLUID-APPLIED MEMBRANE AIR BARRIER
07 42 13 01	SUPPORT (SUBGIRT)
07 42 13 01	J-CHANNEL
07 46 10 A1	METAL SIDING - TYPE 1
07 54 23 A2	FULLY ADHERED TPO ROOFING
07 54 23 B1	ROOF INSULATION
07 54 23 B3	COVER BOARD
07 62 00 F1	GRAVEL STOP
07 62 00 H5	MEMBRANE FLASHING
07 62 99 N1	TERMINATION BAR
07 92 00 H3	SEALANT & BACKER ROD
08 44 13 A2	GLAZED ALUMINUM MULLION SSG
08 44 13 C1	ALUMINUM FLASHING
08 44 13 E4	ALUMINUM PLATE, MATCH CURTAINWALL
08 44 13 H1	BACKPAN BY CURTAINWALL MANF
08 44 13 X1	ALUMINUM STOOL BY CURTAINWALL MANF
08 61 00 A1	INSULATED GLAZING
08 21 16 G1	RIGID FLURRING CHANNEL - HAT SHAPED
08 21 16 M1	GYPSTUM BOARD
08 21 16 M5	EXTERIOR GYPSTUM SHEATHING
08 21 16 M14	GYPSTUM BOARD CEILING
08 51 13 B	ACOUSTICAL CEILING UNIT

#	DATE	CHANGE DESCRIPTION
1	03/27/2020	BULLETIN 02
2	12/11/2020	RFI 193
3	03/10/2021	BULLETIN 07

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DRAWING TITLE: **SECTION DETAILS**

DATE: **FEBRUARY 21, 2020**

DRAWN BY: **KG** CHECKED BY: **HBBL**

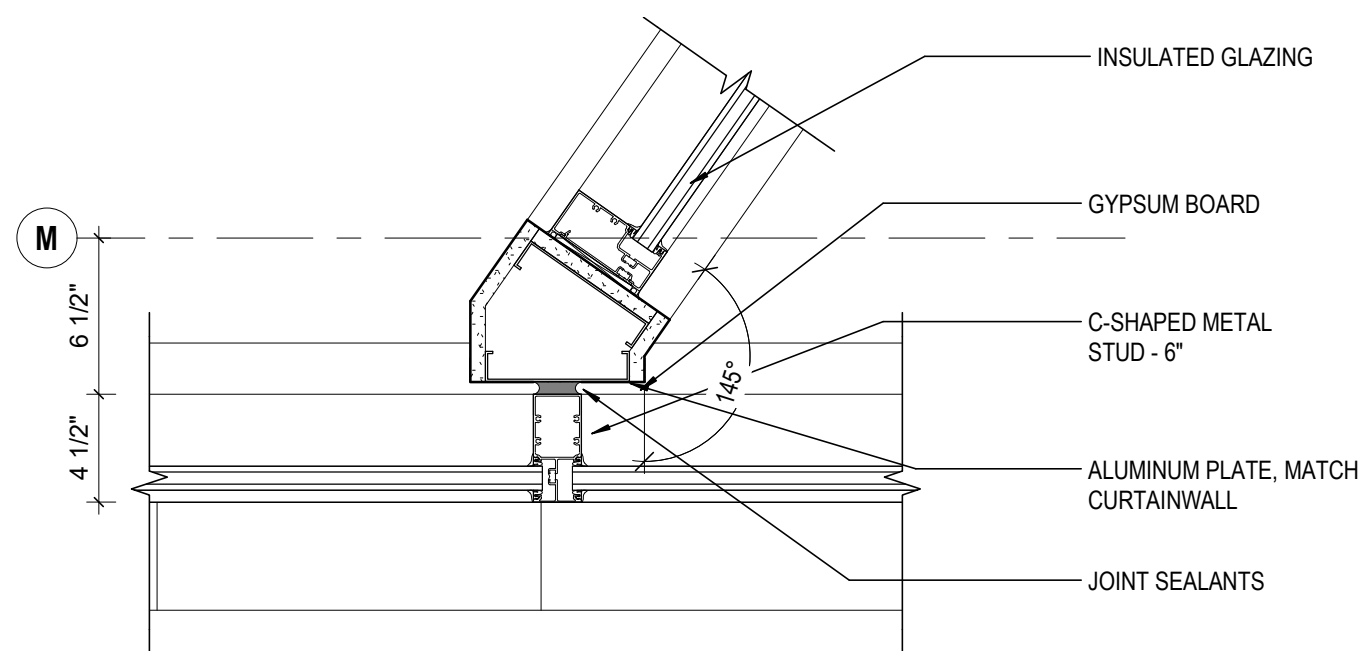
PROJECT: **18428**

**A513**

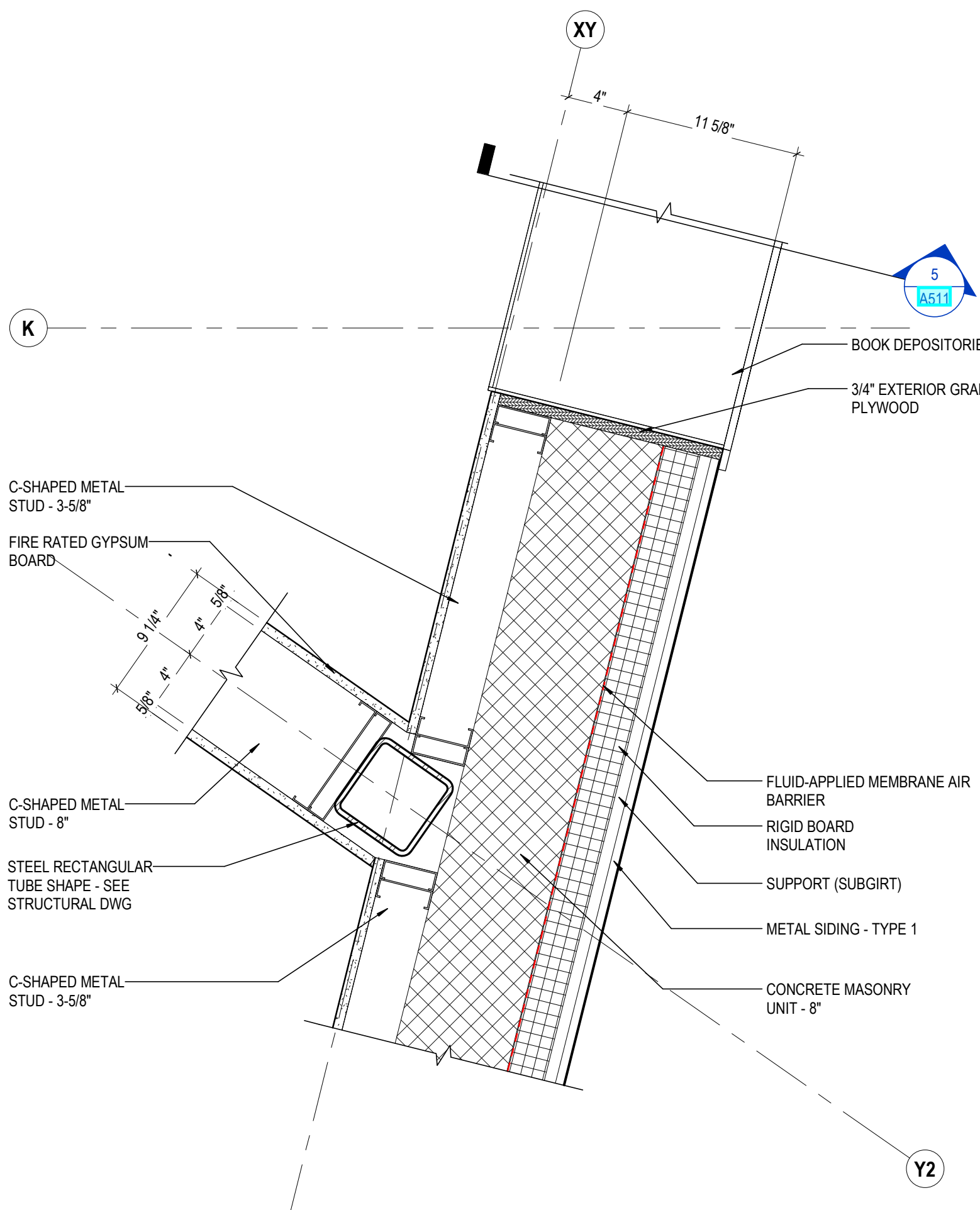
PERMIT SET

CURTIS J. MOODY, LIC. #7096  
EXP. DATE: 12/31/2019

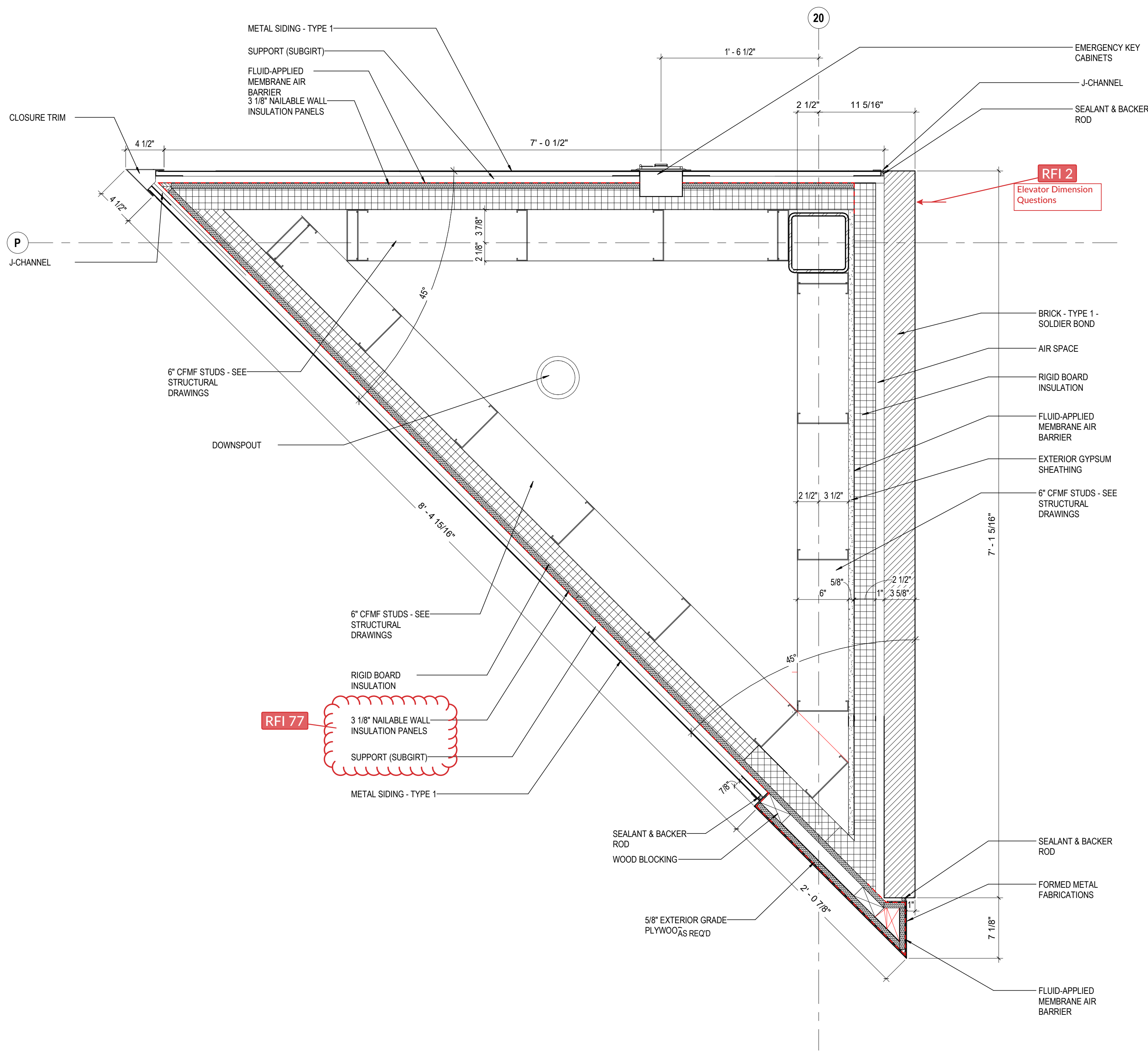




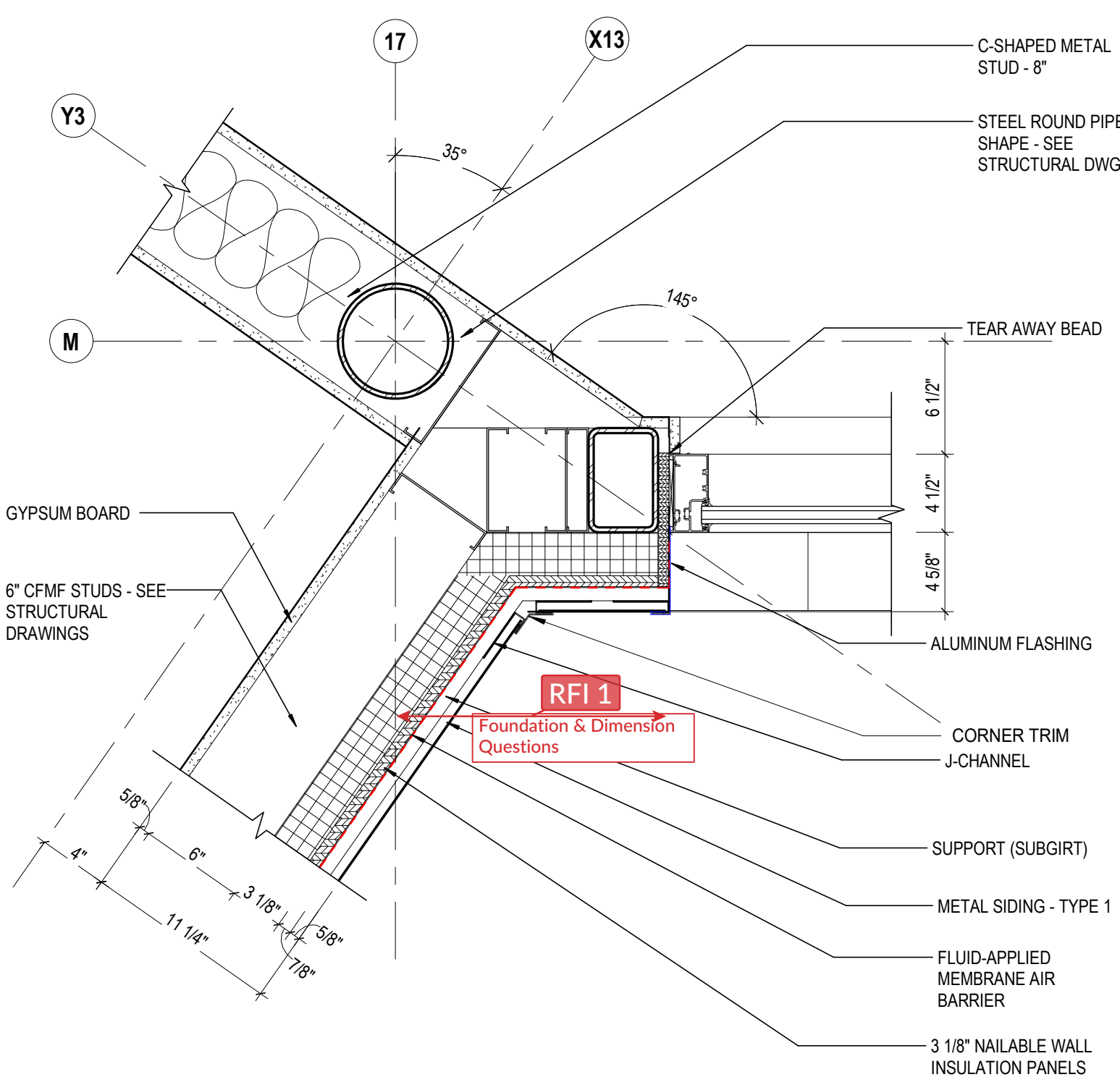
**6 DETAIL VESTIBULE CORNER**  
 1 1/2" = 1'-0" REF: 1/A101



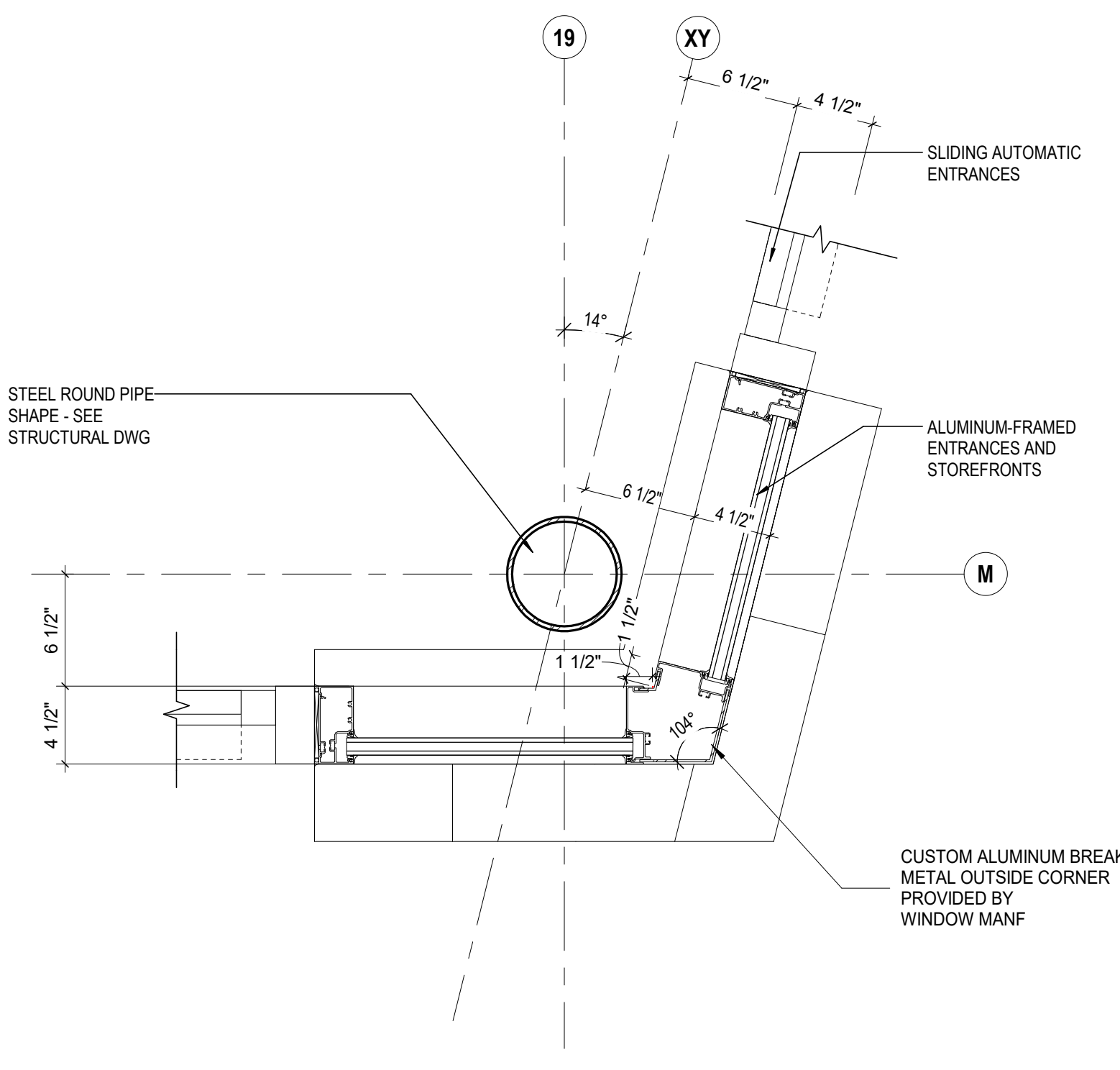
**5 DETAIL VESTIBULE @ INT WALL**  
 1 1/2" = 1'-0" REF: 1/A101



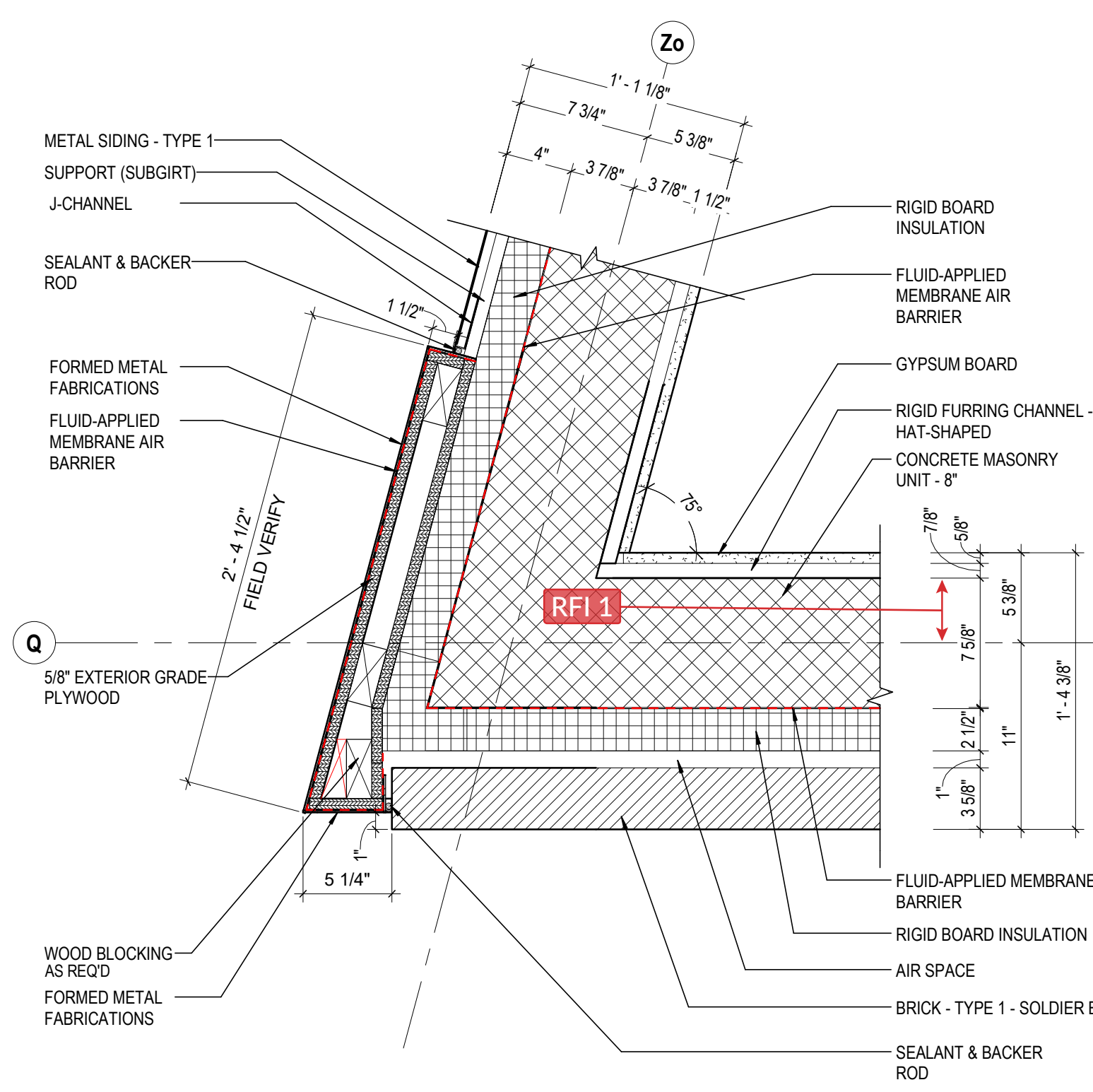
**2 DETAIL ENTRY TOWER @ GRADE**  
 1 1/2" = 1'-0" REF: 1/A101



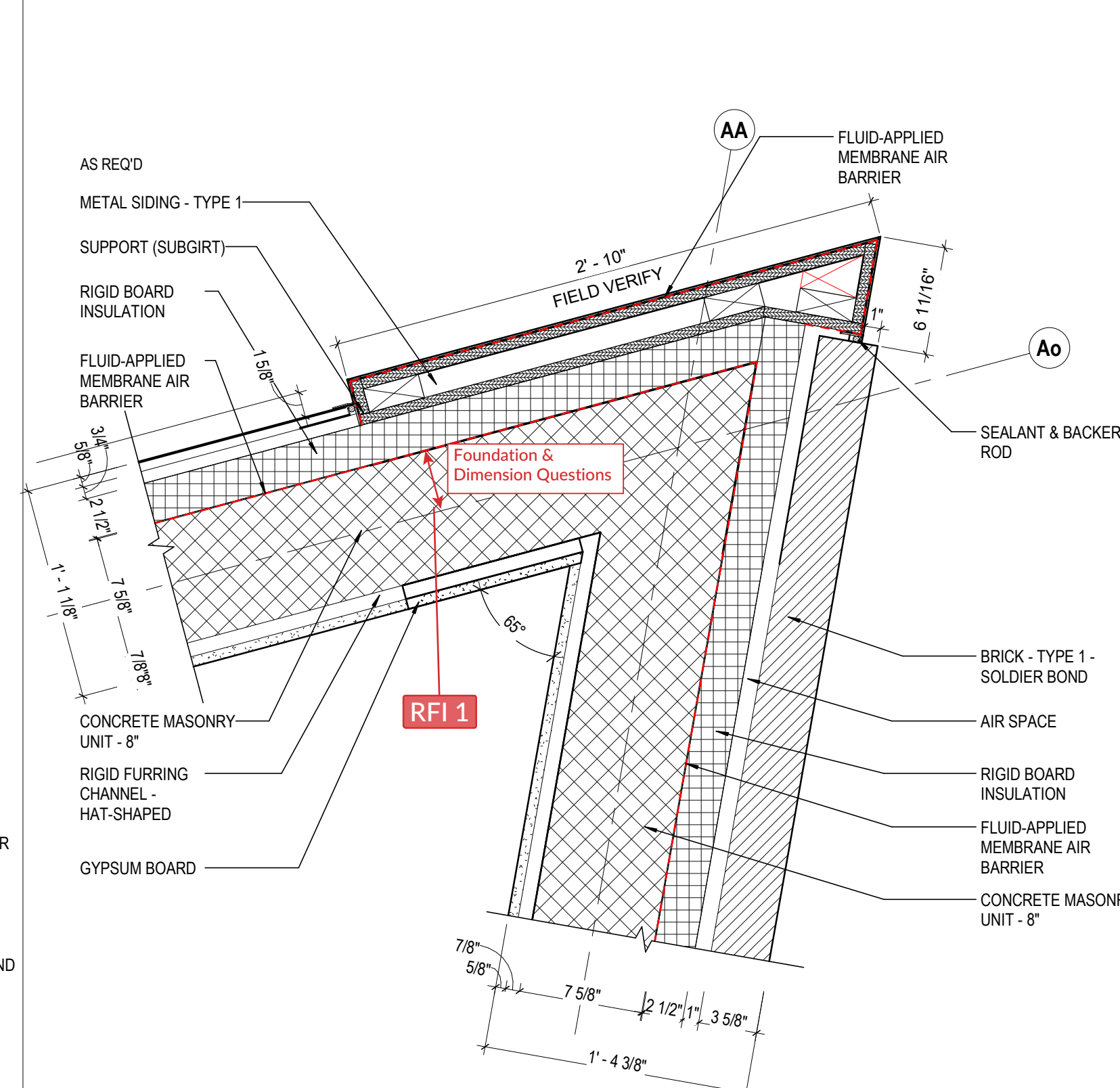
**7 DETAIL SOUTH CORNER @ S05**  
 1 1/2" = 1'-0" REF: 1/A101



**4 DETAIL SF ENTRY @ CORNER**  
 1 1/2" = 1'-0" REF: 1/A101



**3 DETAIL SOUTH WEST CORNER**  
 1 1/2" = 1'-0" REF: 1/A101



**1 DETAIL NORTH EAST CORNER**  
 1 1/2" = 1'-0" REF: 1/A101

**GENERAL NOTES - EXTERIOR DETAILS**

- PROVIDE DAMPROOF MASONRY FOR ALL BELOW GRADE

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
04 00 00.B1C	BRICK - TYPE 1 - SOLDIER BOND
04 00 00.D4	CONCRETE MASONRY UNIT - 8"
04 00 00.Z1	AIR SPACE
05 12 00.C1	STEEL RECTANGULAR TUBE SHAPE - SEE STRUCTURAL DWG
05 12 00.C2	STEEL ROUND PIPE SHAPE - SEE STRUCTURAL DWG
05 40 00.A4	C-SHAPED METAL STUD - 3-5/8"
05 40 00.A5	C-SHAPED METAL STUD - 6"
05 40 00.A8	6" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 40 00.A9	C-SHAPED METAL STUD - 8"
05 58 00	FORMED METAL FABRICATIONS
06 10 00.A1	WOOD BLOCKING
06 10 50.B1	3/4" EXTERIOR GRADE PLYWOOD
06 10 50.B2	5/8" EXTERIOR GRADE PLYWOOD
07 21 00.A1	RIGID BOARD INSULATION
07 22 19.A1	3 1/8" NAILABLE WALL INSULATION PANELS
07 27 26	FLUID-APPLIED MEMBRANE AIR BARRIER
07 42 13.D1	SUPPORT (SUBGIRT)
07 42 13.H1	J-CHANNEL
07 42 13.J1	CLOSURE TRIM
07 46 10.A1	METAL SIDING - TYPE 1
07 62 00.D1	DOWNSPOUT
07 92 00	JOINT SEALANTS
07 92 00.H3	SEALANT & BACKER ROD
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 42 29	SLIDING AUTOMATIC ENTRANCES
08 44 13.C1	ALUMINUM FLASHING
08 44 13.E4	ALUMINUM PLATE, MATCH CURTAINWALL
08 91 00.A1	INSULATED GLAZING
09 21 16.G1	RIGID FURRING CHANNEL - HAT-SHAPED
09 21 16.M1	GYPSUM BOARD
09 21 16.M2	FIRE RATED GYPSUM BOARD
09 21 16.M5	EXTERIOR GYPSUM SHEATHING
09 21 16.P7	TEAR AWAY BEAD
10 41 16	EMERGENCY KEY CABINETS
11 51 16	BOOK DEPOSITORIES

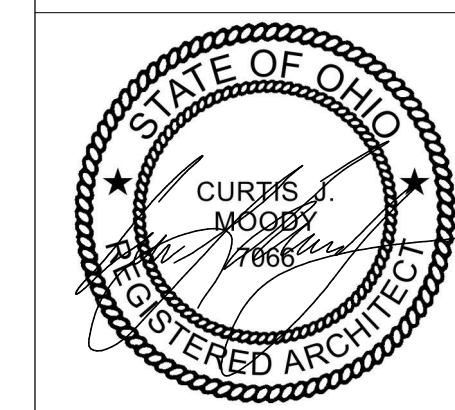
#	DATE	CHANGE DESCRIPTION
1	01/24/2020	ADDENDUM 02

**CML KARL ROAD BRANCH**  
 5590 Hart Road  
 Columbus, Ohio 43229  
 FOR  
**COLUMBUS METROPOLITAN LIBRARY**

**MOODY-NOLAN**  
 300 SPRUCE STREET  
 SUITE 300  
 COLUMBUS, OHIO 43215  
 PHONE: (614) 461-4664  
 FAX: (614) 280-8881

DRAWING TITLE:

**PLAN DETAILS**



FEBRUARY 21, 2020

DRAWN BY: KG CHECKED BY: HBB/L

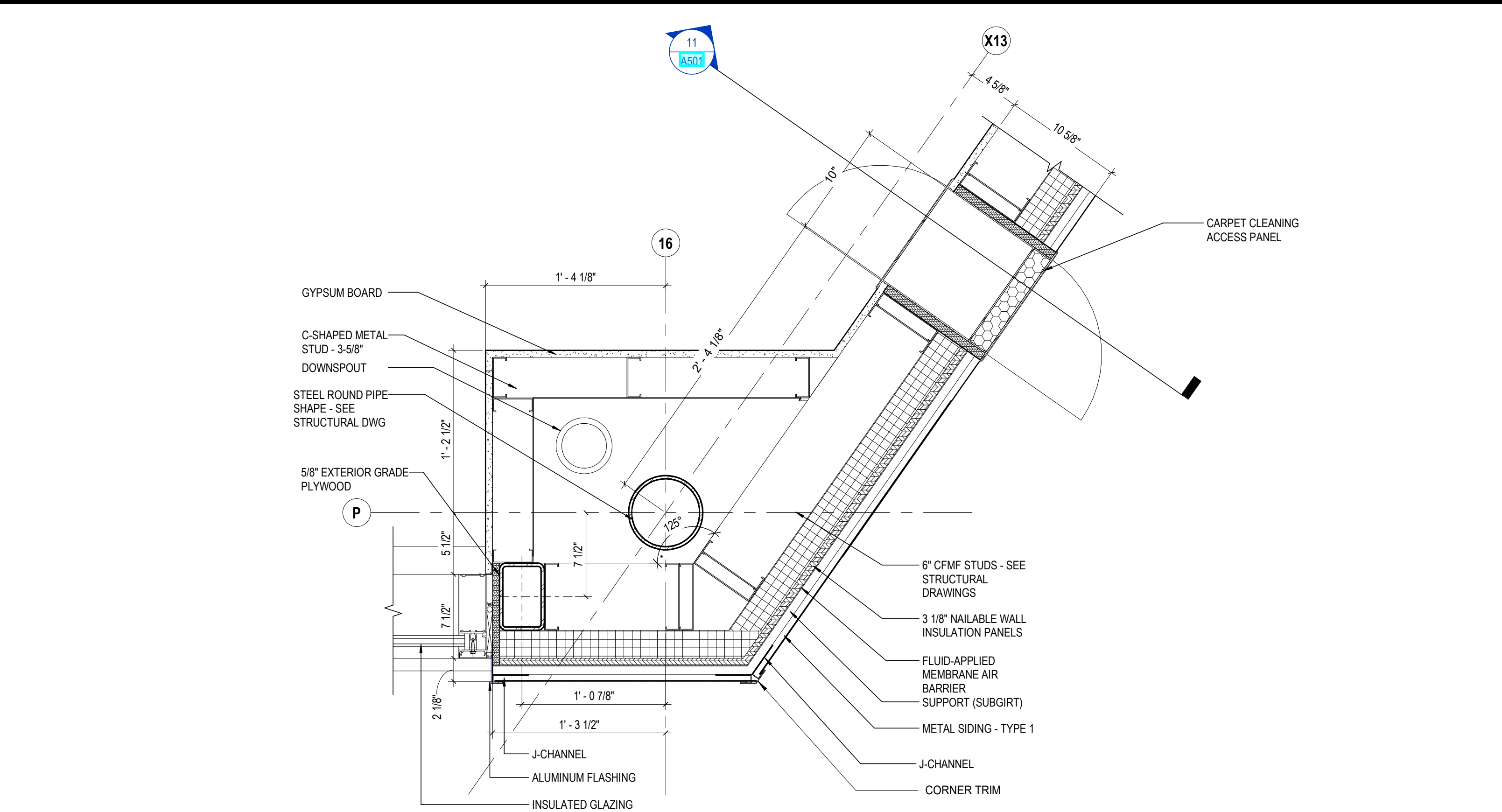
18428

**A520**

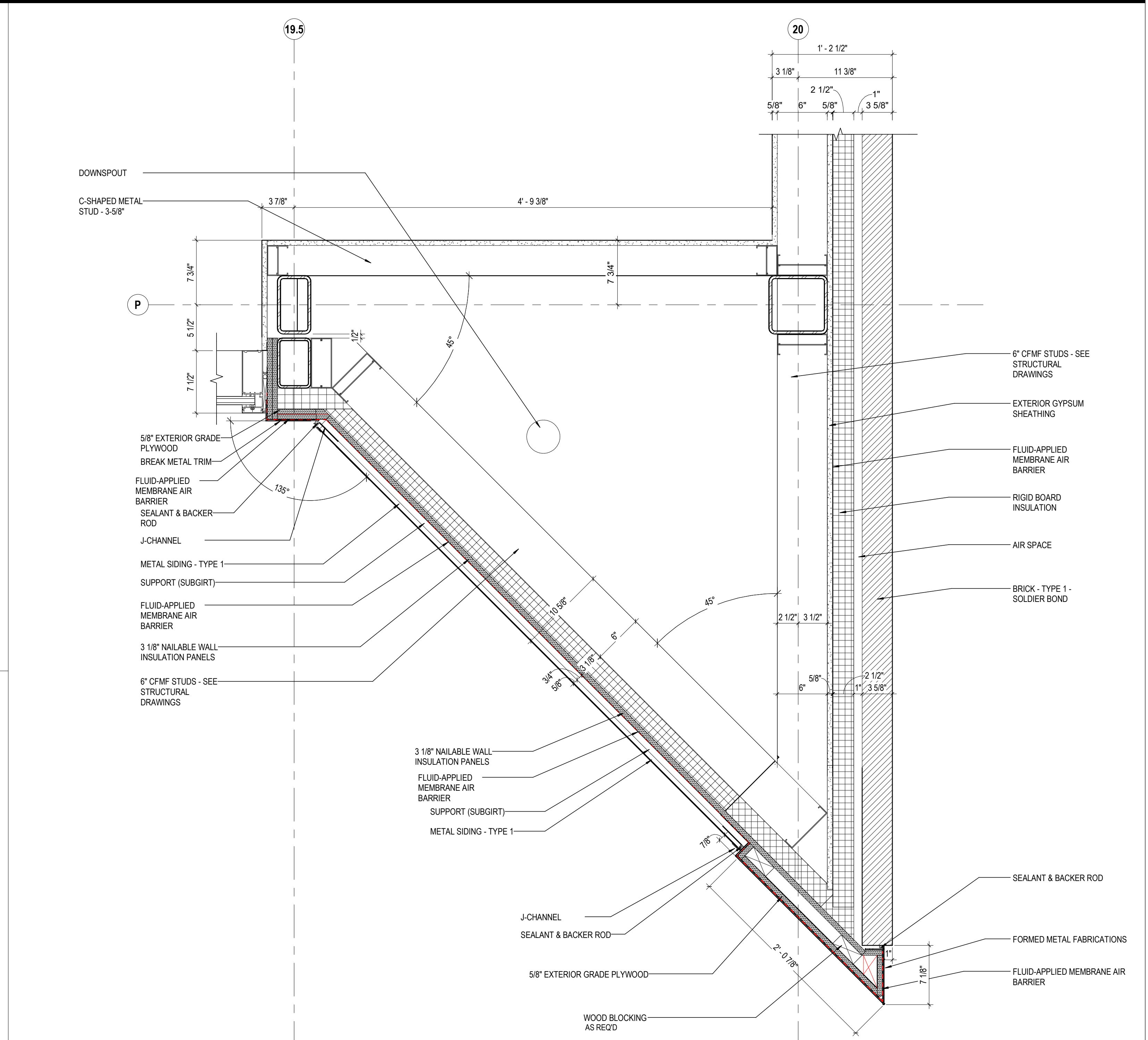
PERMIT SET

CURTIS J. MOODY, LIC. #7096  
 EXP. DATE: 12/31/2019

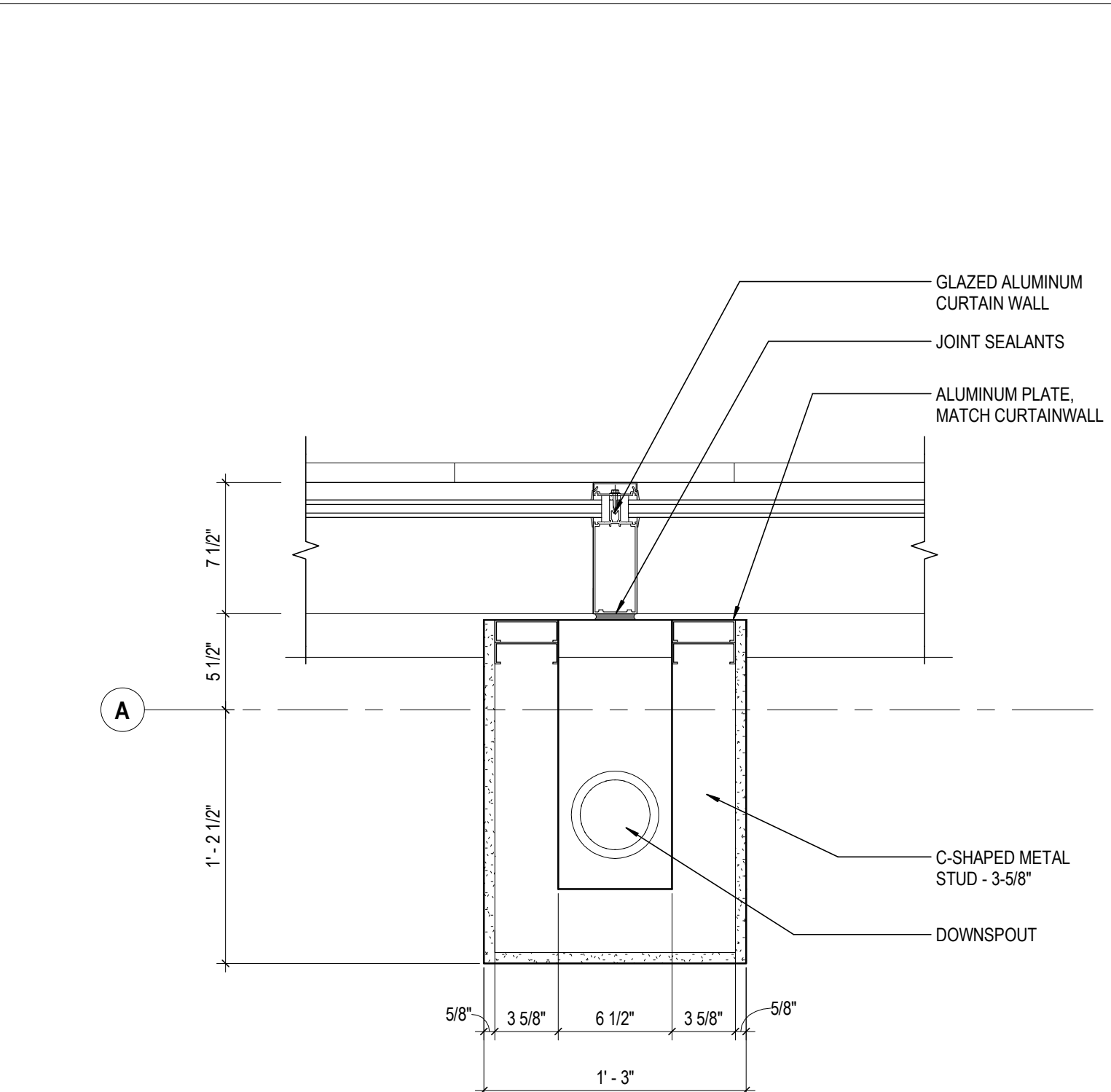




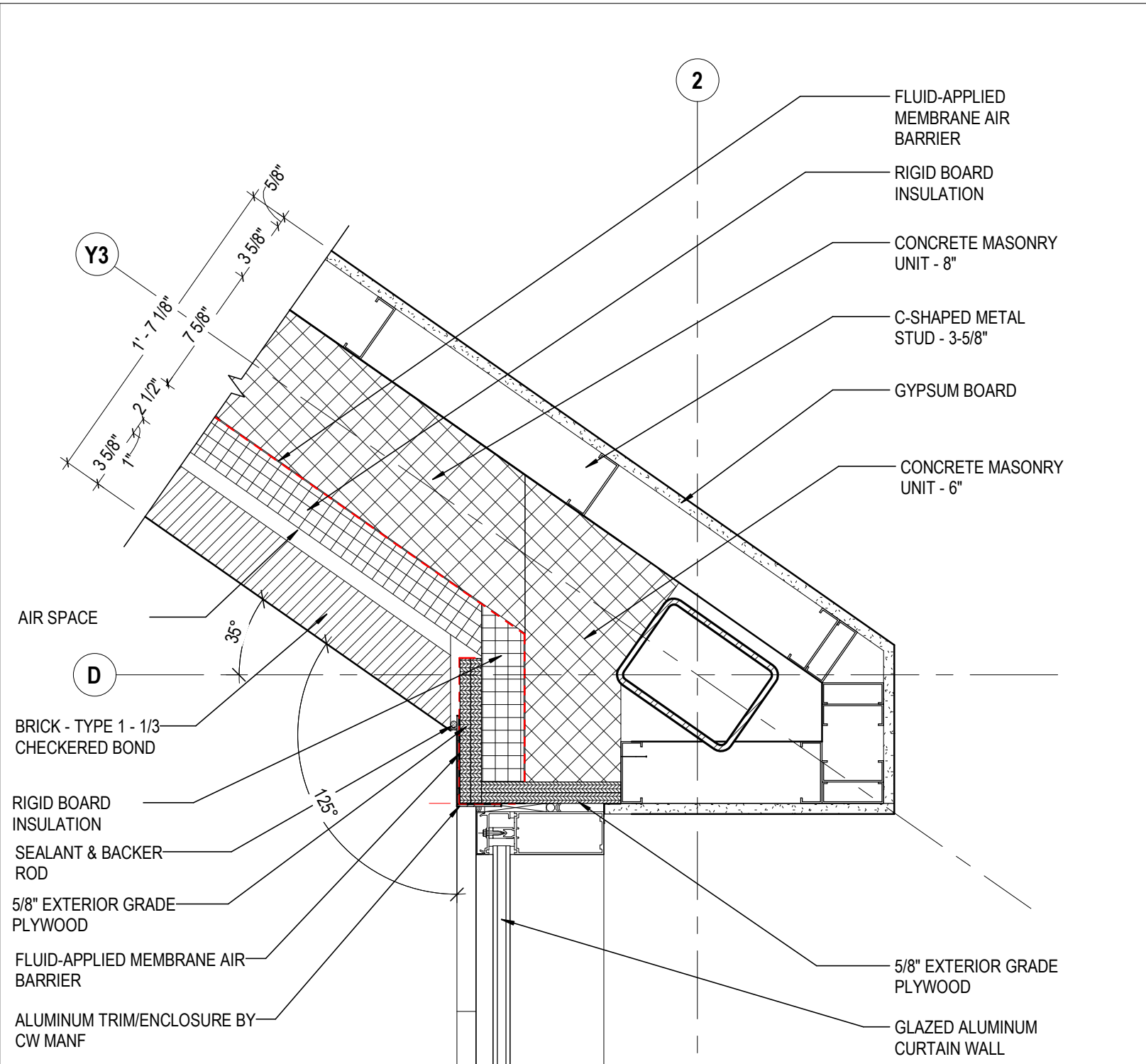
**9 DETAIL** SOUTH CORNER @ C02  
1 1/2" = 1'-0" REF: 1 / A101



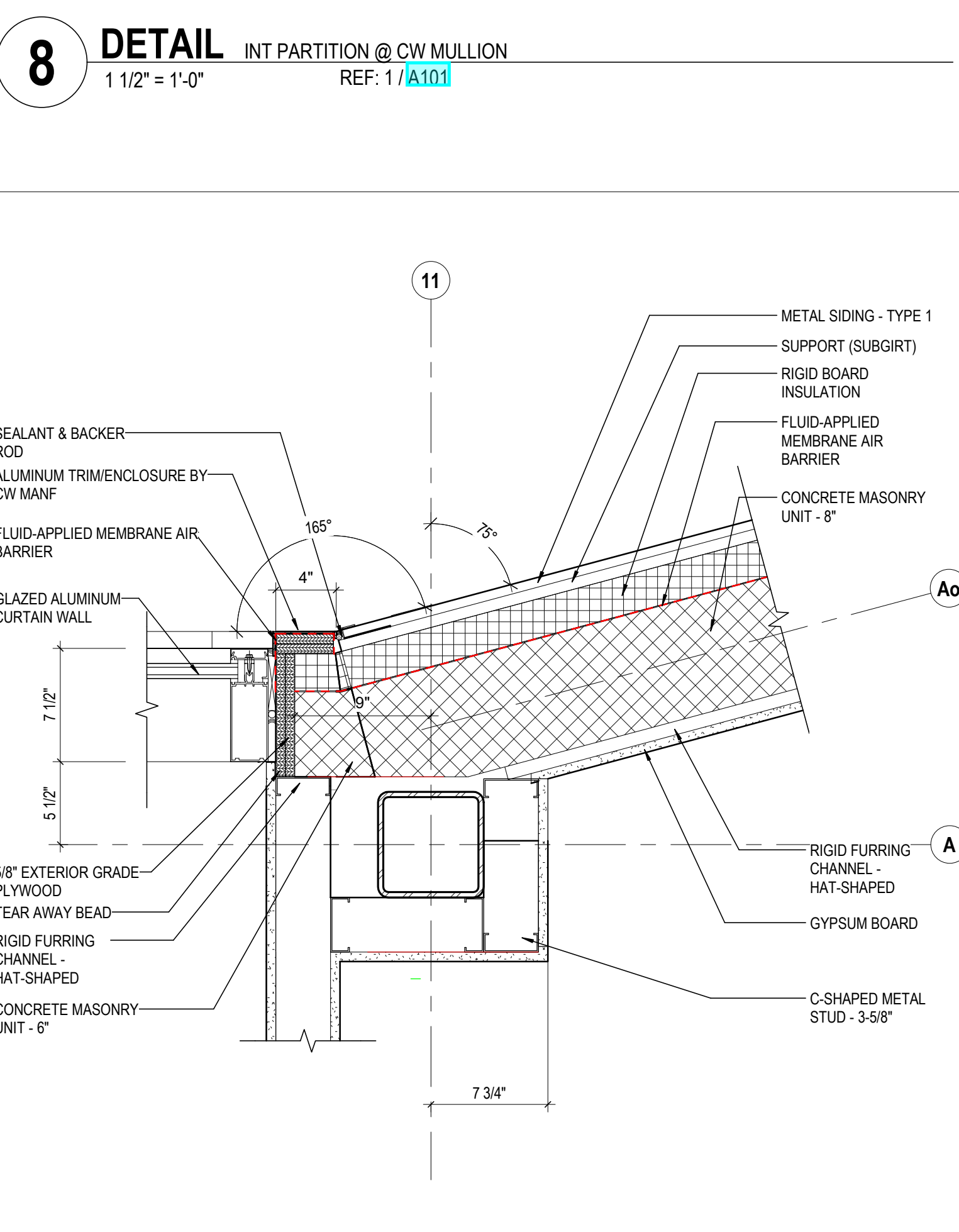
**2 DETAIL** SOUTH CORNER @ C02  
1 1/2" = 1'-0" REF: 1 / A102



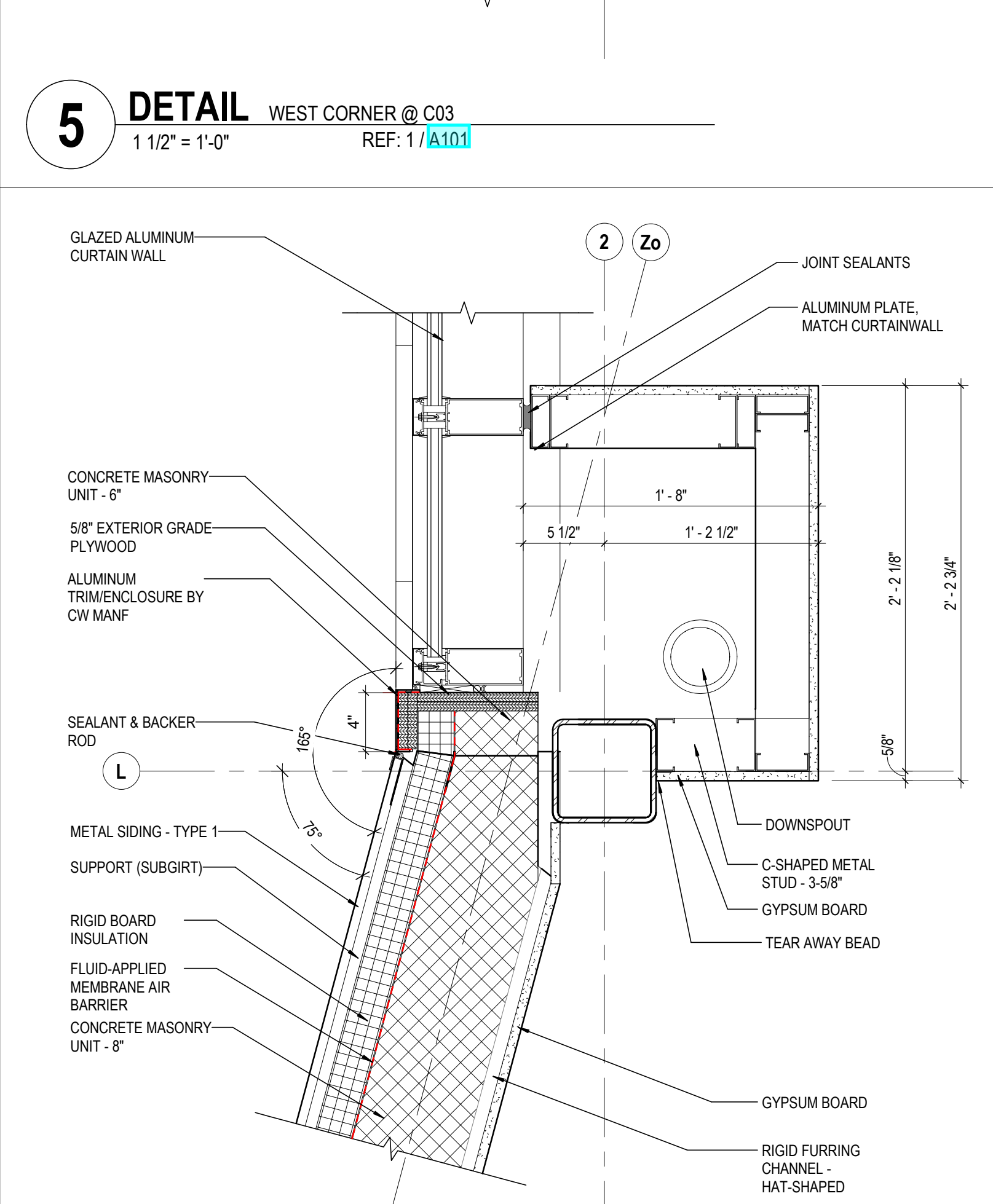
**8 DETAIL** INT PARTITION @ CW MULLION  
1 1/2" = 1'-0" REF: 1 / A101



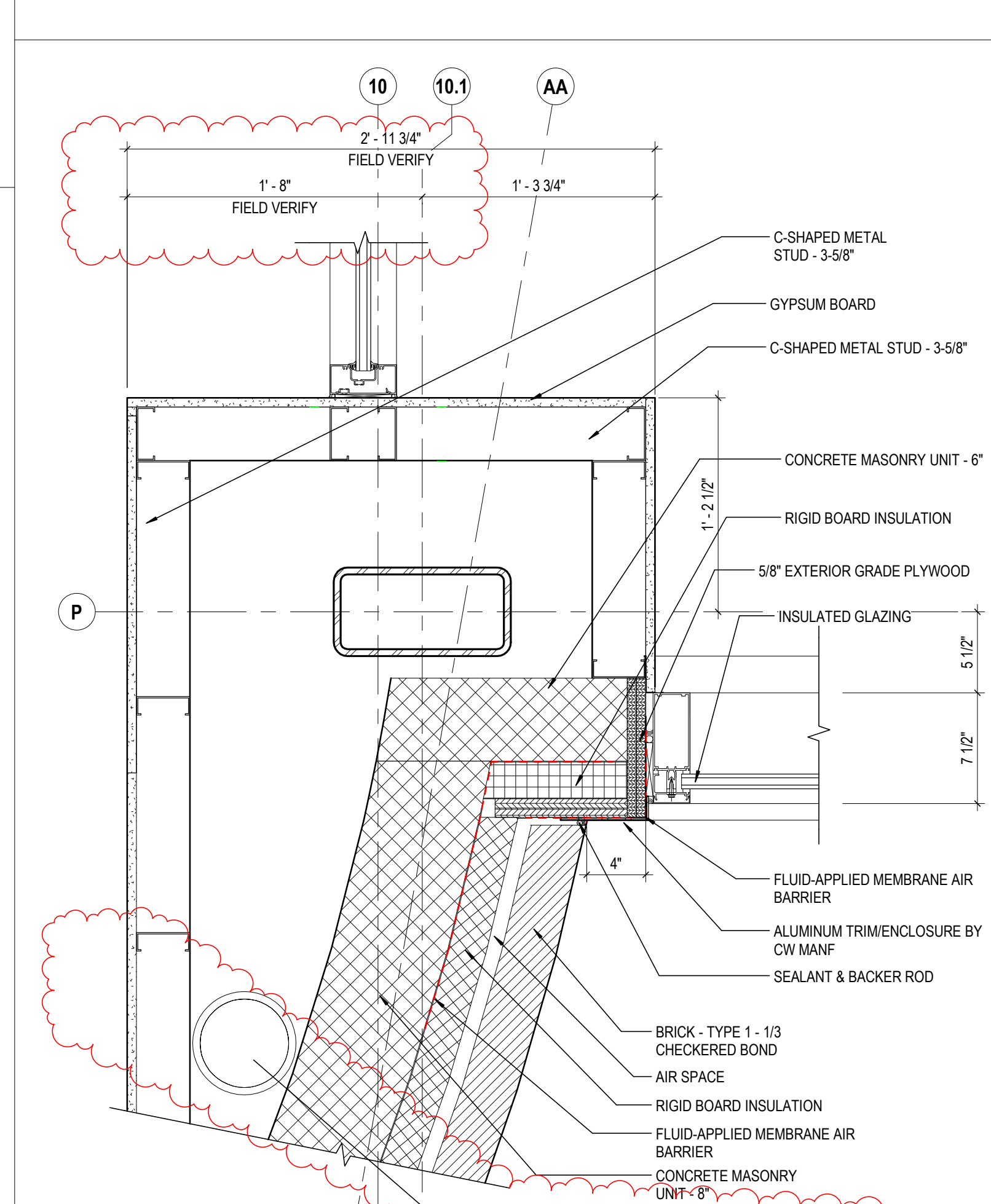
**5 DETAIL** WEST CORNER @ C03  
1 1/2" = 1'-0" REF: 1 / A101



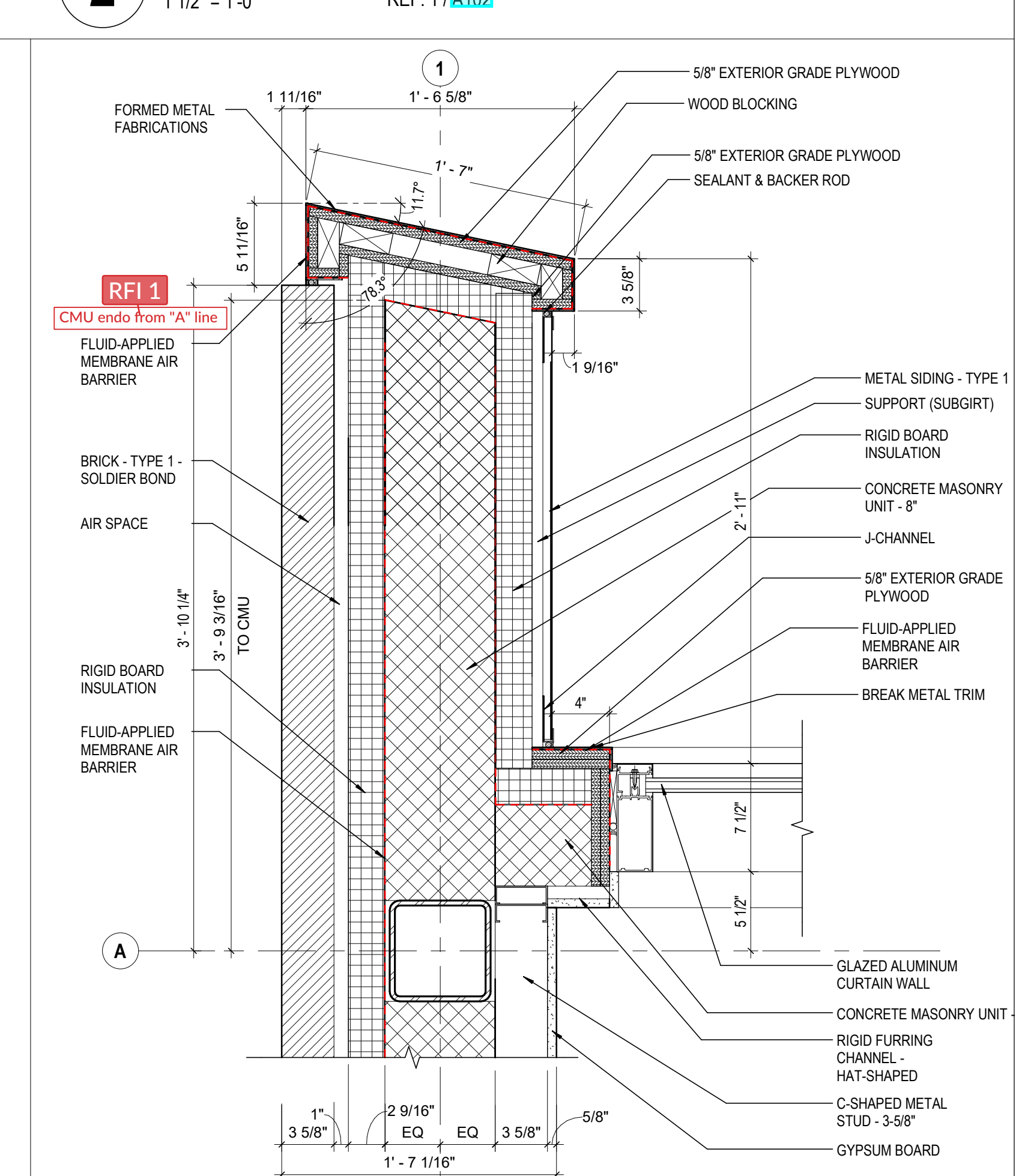
**7 DETAIL** NORTH CORNER @ C01  
1 1/2" = 1'-0" REF: 1 / A101



**4 DETAIL** WEST CORNER @ C03  
1 1/2" = 1'-0" REF: 1 / A101



**3 DETAIL** SOUTH CORNER @ C02  
1 1/2" = 1'-0" REF: 1 / A101



**1 DETAIL** NORTH CORNER @ C01  
1 1/2" = 1'-0" REF: 1 / A101

**GENERAL NOTES - EXTERIOR DETAILS**

1. PROVIDE DAMPPROOF MASONRY FOR ALL BELOW GRADE

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
04 00 00 B1B	BRICK - TYPE 1 - 1/3 CHECKERED BOND
04 00 00 B1C	BRICK - TYPE 1 - SOLDIER BOND
04 00 00 D3	CONCRETE MASONRY UNIT - 6"
04 00 00 D4	CONCRETE MASONRY UNIT - 8"
04 00 00 Z1	AIR SPACE
05 12 00 C2	STEEL ROUND PIPE SHAPE - SEE STRUCTURAL DWG
05 40 00 A4	C-SHAPED METAL STUD - 3-5/8"
05 40 00 A8	6" CMF STUDS - SEE STRUCTURAL DRAWINGS
05 50 00	FORMED METAL FABRICATIONS
06 10 00 A1	WOOD BLOCKING
06 10 50 B2	5/8" EXTERIOR GRADE PLYWOOD
07 21 00 A1	RIGID BOARD INSULATION
07 22 19 A1	3 1/8" NAILABLE WALL INSULATION PANELS
07 27 25	FLUID-APPLIED MEMBRANE AIR BARRIER
07 42 13 D1	SUPPORT (SUBGIRT)
07 42 13 H1	J-CHANNEL
07 46 10 A1	METAL SIDING - TYPE 1
07 60 00 D1	DOWNSPOUT
07 91 16	JOINT GASKET
07 92 00	JOINT SEALANTS
07 92 00 H3	SEALANT & BACKER ROD
08 31 13 A1	CARPET CLEANING ACCESS PANEL
08 41 13 D2	BREAK METAL TRIM
08 44 13	GLAZED ALUMINUM CURTAIN WALL
08 44 13 C1	ALUMINUM FLASHING
08 44 13 E3	ALUMINUM TRIM ENCLOSURE BY CW MANF
08 44 13 E4	ALUMINUM PLATE, MATCH CURTAIN WALL
08 61 00 A1	INSULATED GLAZING
09 21 16 G1	RIGID FURRING CHANNEL - HAT-SHAPED
09 21 16 M1	GYPSUM BOARD
09 21 16 M5	EXTERIOR GYPSUM SHEATHING
09 21 16 P7	TEAR AWAY BEAD
22 14 26 A4	SECONDARY (EMERGENCY) ROOF DRAIN DOWNSPOUT NOZZLE. SEE PLUMBING DRAWINGS FOR DOWNSPOUT NOZZLE DETAIL.

#	DATE	CHANGE DESCRIPTION
1	01/24/2020	ADDENDUM 02
2	04/17/2020	RFI 001
3	8/18/2020	BULLETIN 05
4	11/03/2020	ASI 004
5	01/29/2021	BULLETIN 06

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DRAWING TITLE: **PLAN DETAILS**

DATE: **FEBRUARY 21, 2020**

DRAWN BY: **KG** CHECKED BY: **RP**

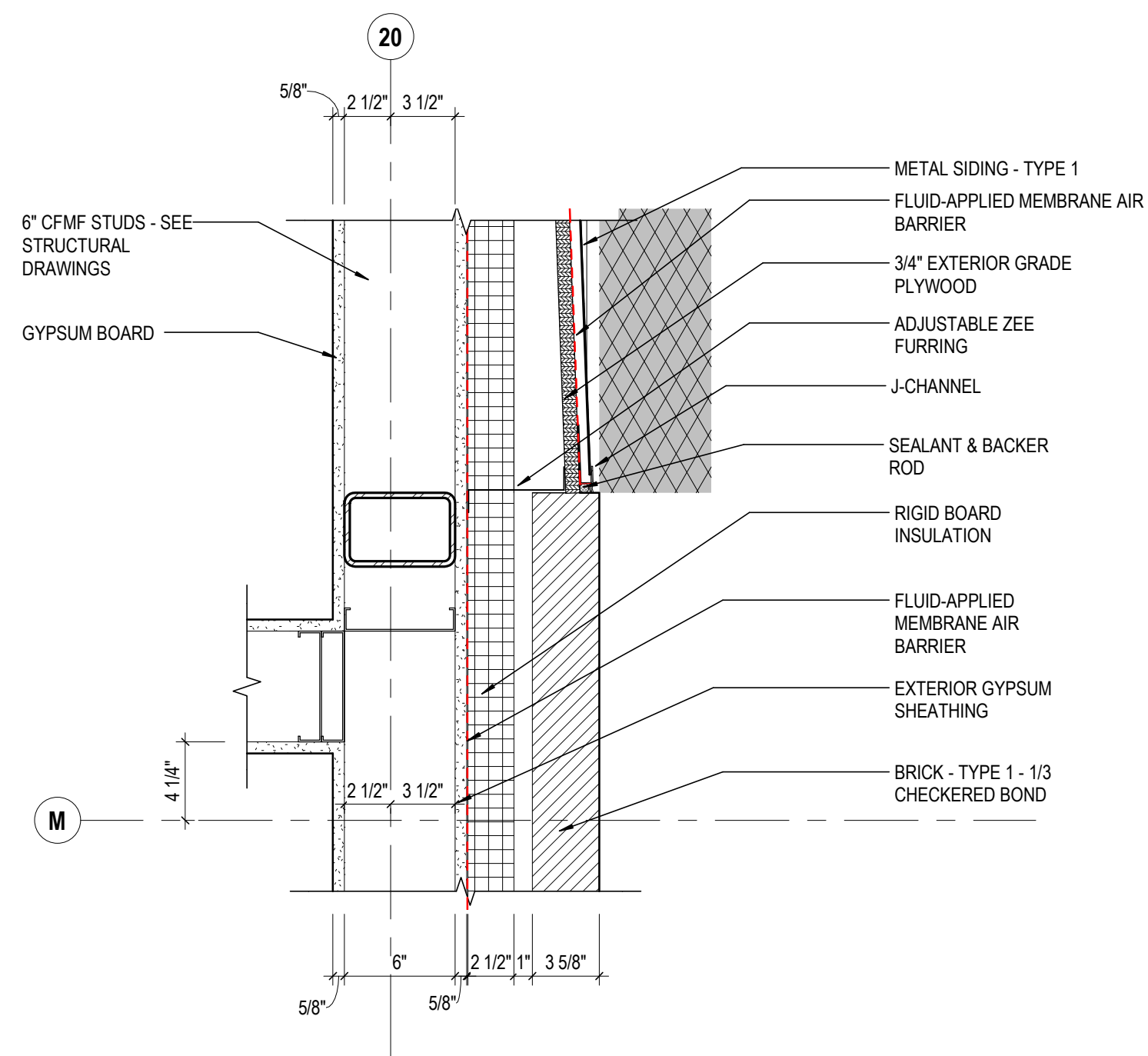
PROJECT NO: **18428**

**A521**

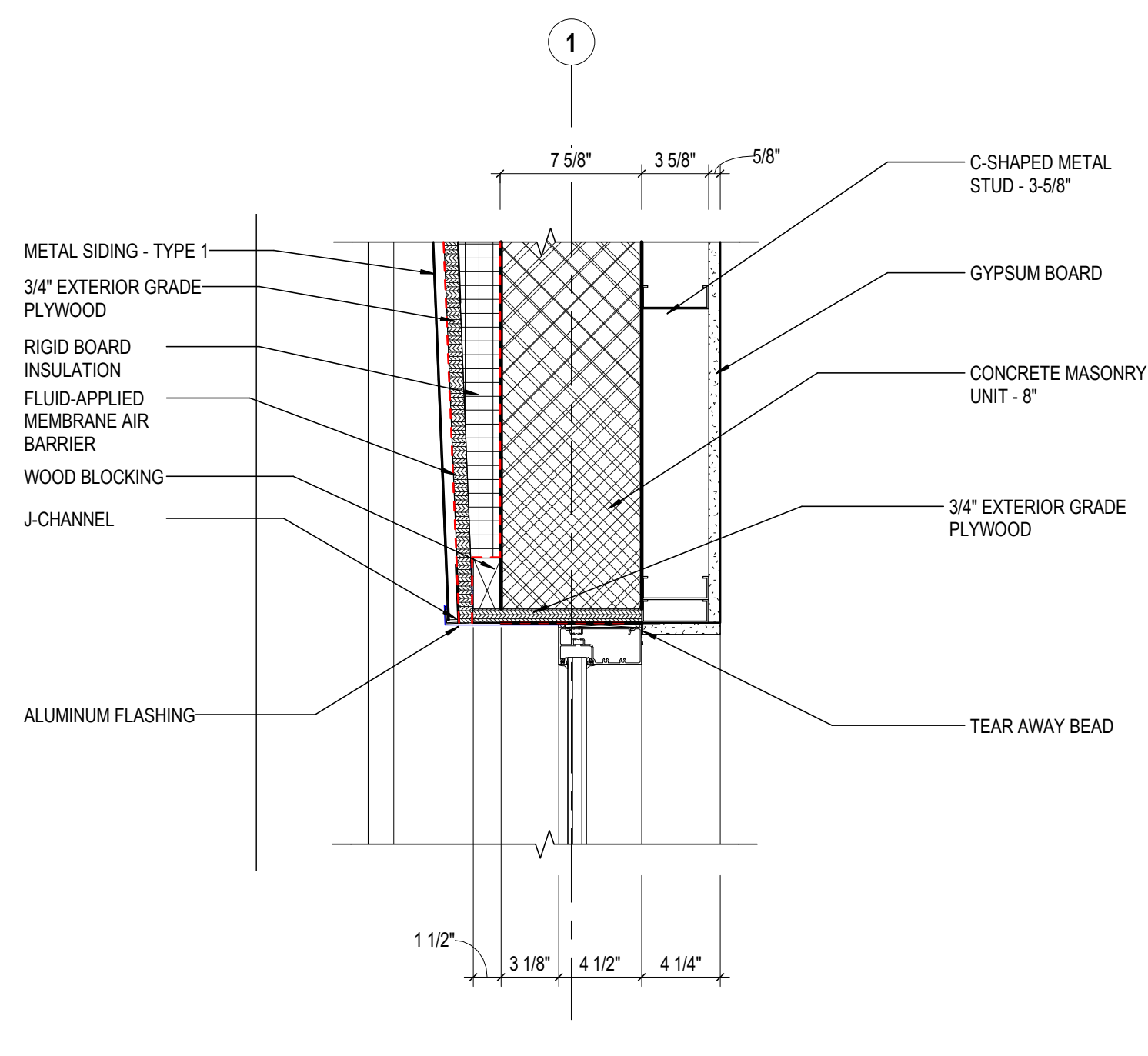
PERMIT SET

CURTIS J. MOODY, LIC. #7066  
EXP. DATE: 12/31/2019

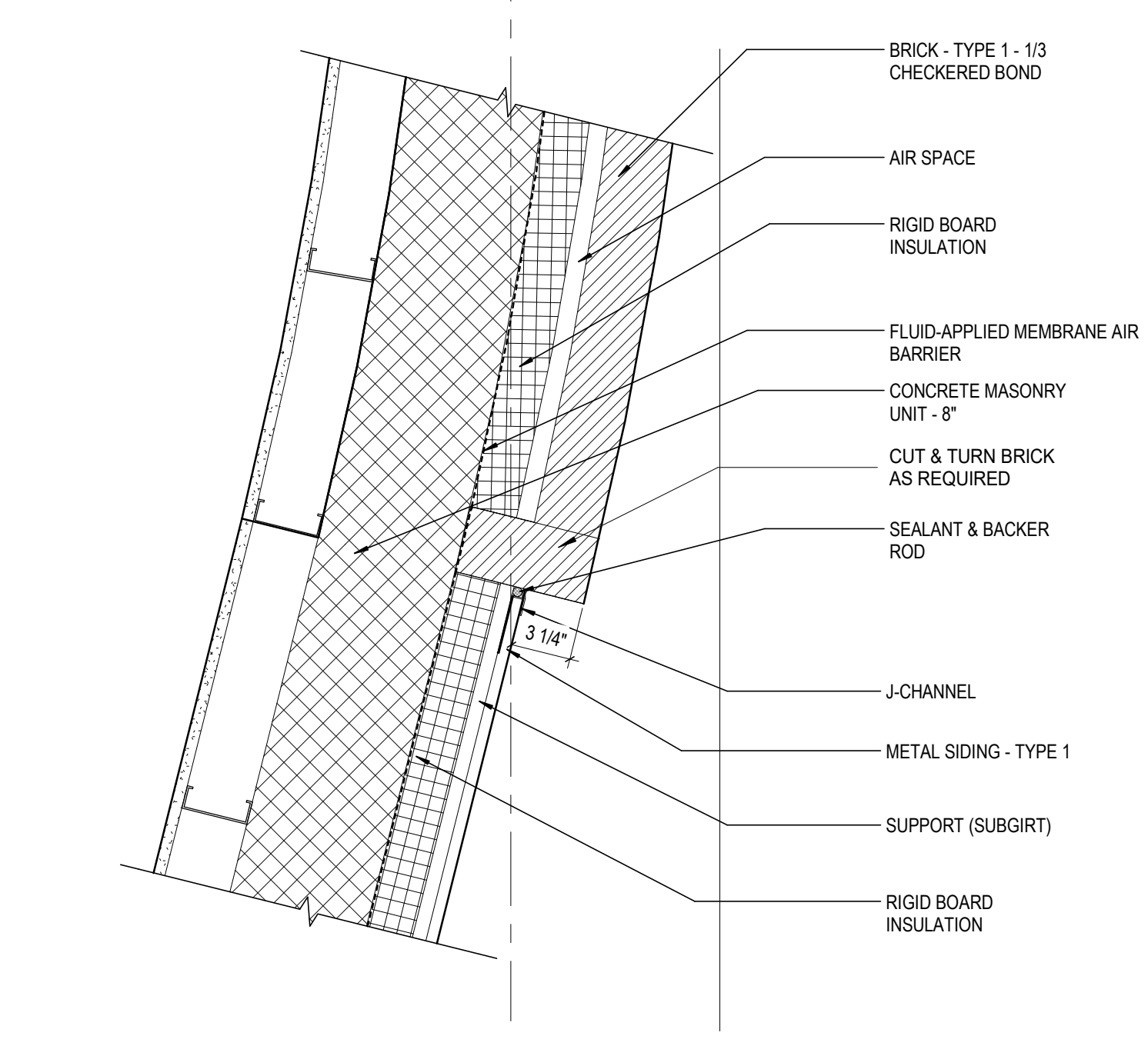




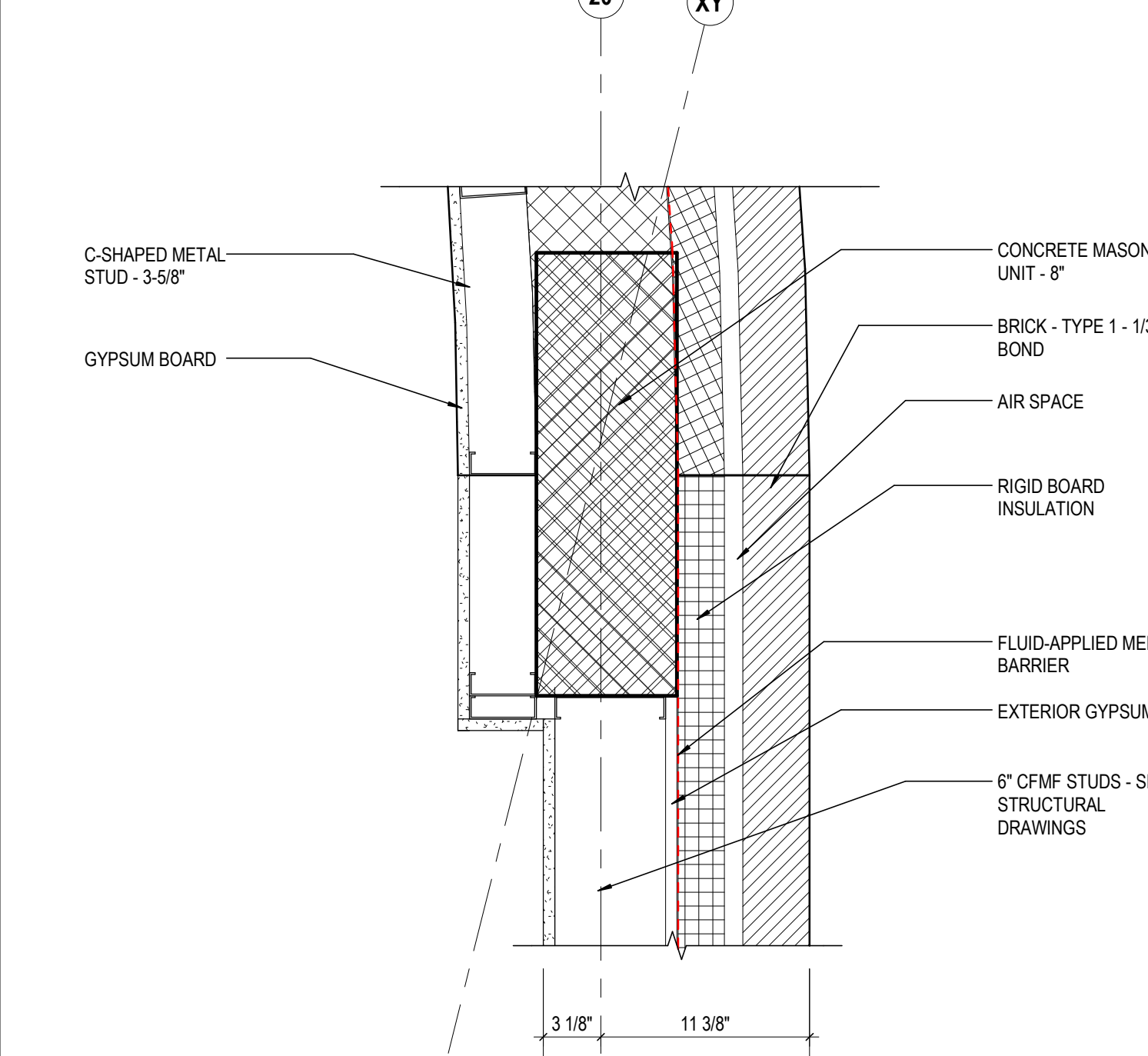
**11** DETAIL METAL PANEL @ BRICK ON MTL STD  
1 1/2" = 1'-0" REF: 1 / A102



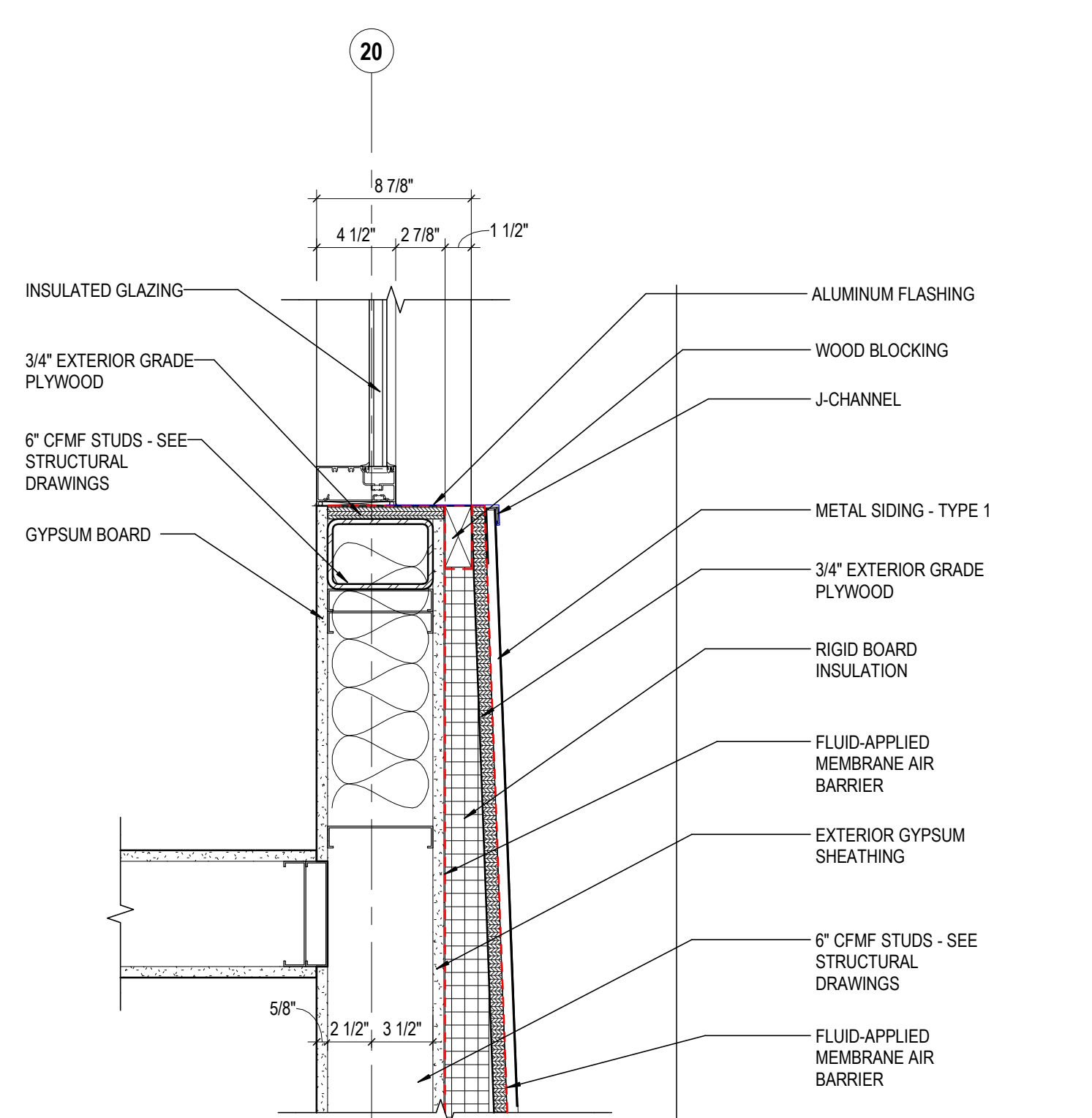
**8** DETAIL SF JAMB @ ANGELED MTL PANEL  
1 1/2" = 1'-0" REF: 1 / A102



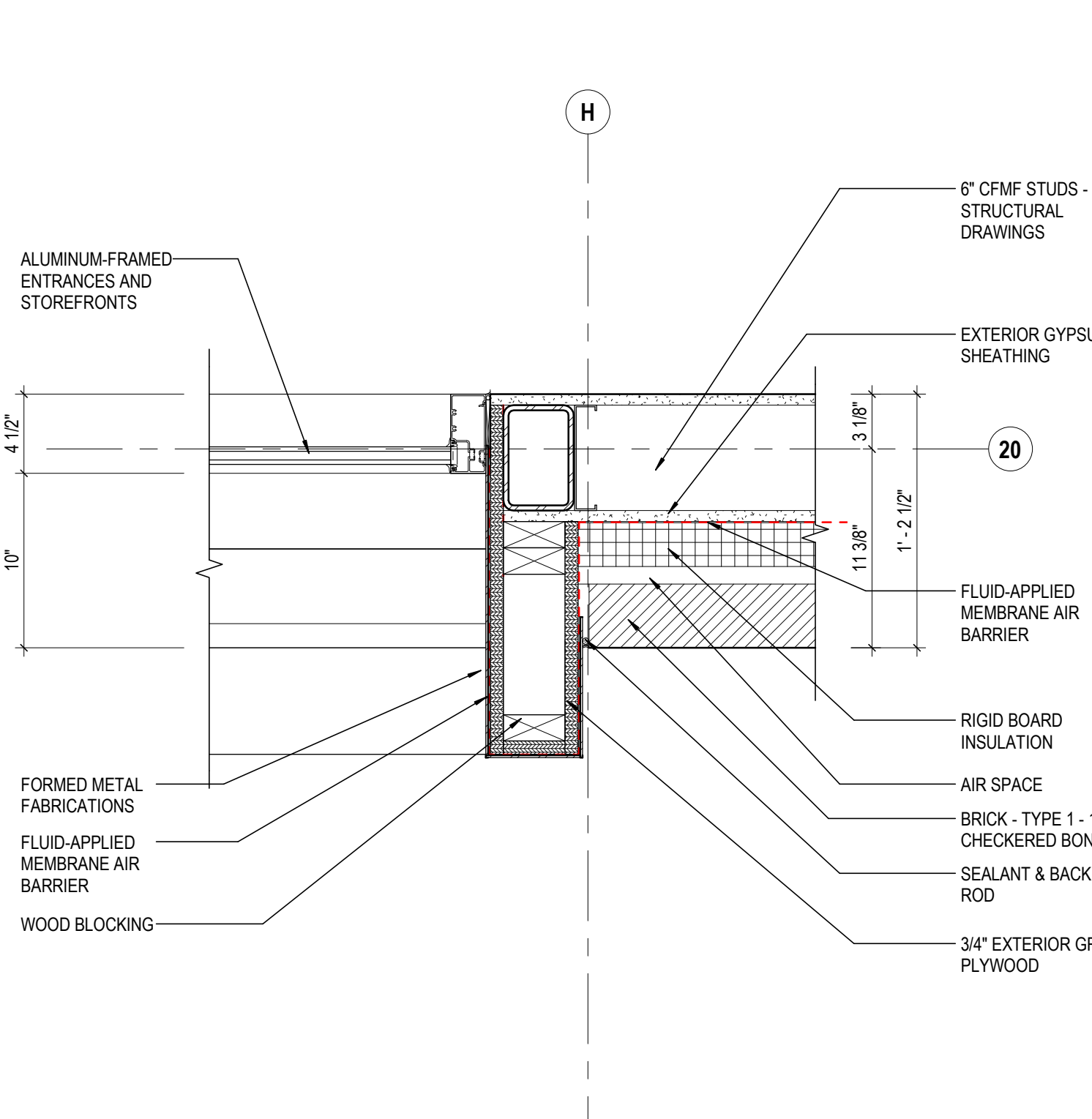
**5** DETAIL BRICK TO METAL PANEL  
1 1/2" = 1'-0" REF: 1 / A102



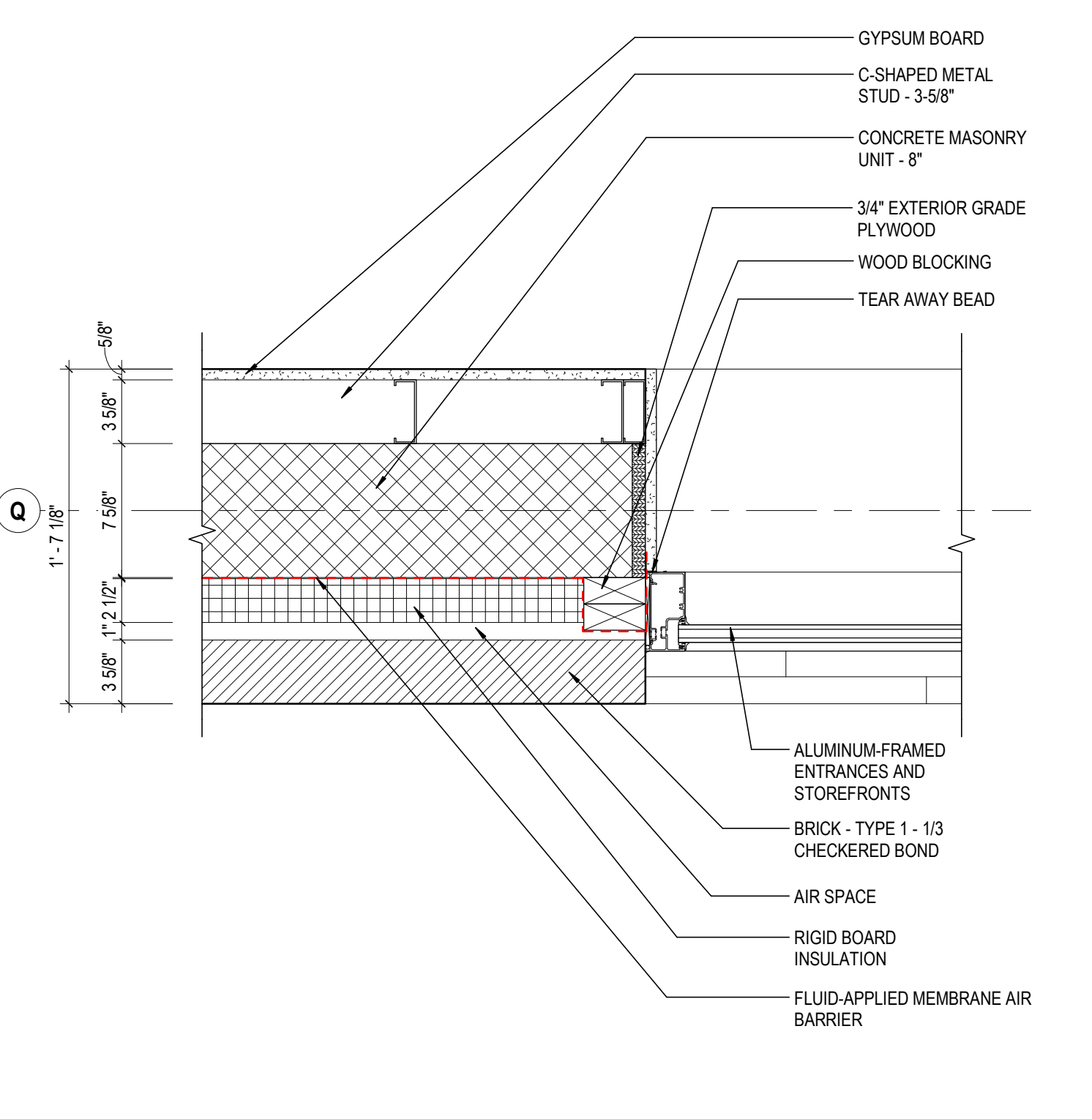
**2** DETAIL CMU TO MTL STUD @ BRICK  
1 1/2" = 1'-0" REF: 1 / A102



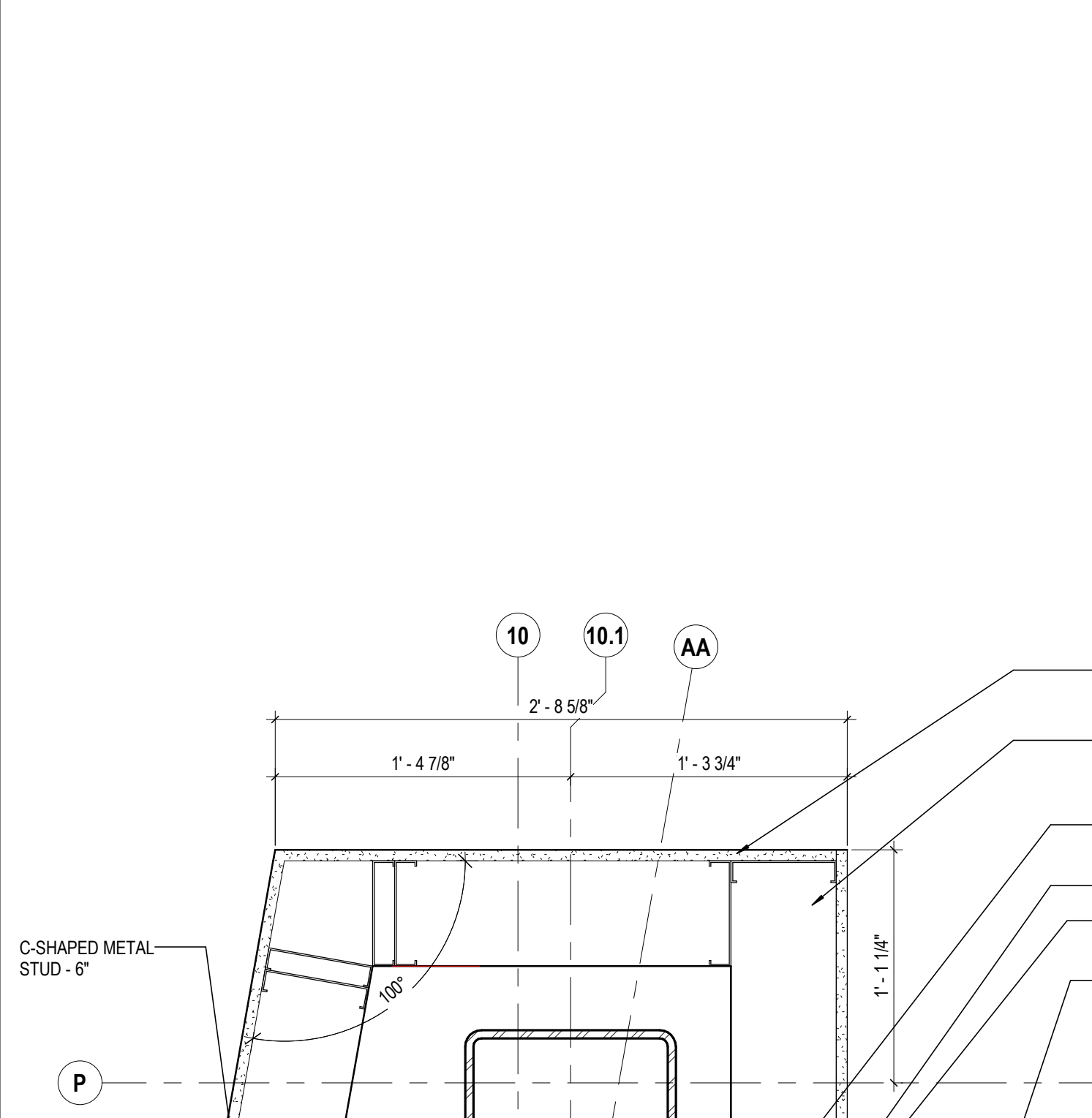
**10** DETAIL SF JAMB @ MTL STUD W/ MTL PANEL  
1 1/2" = 1'-0" REF: 1 / A102



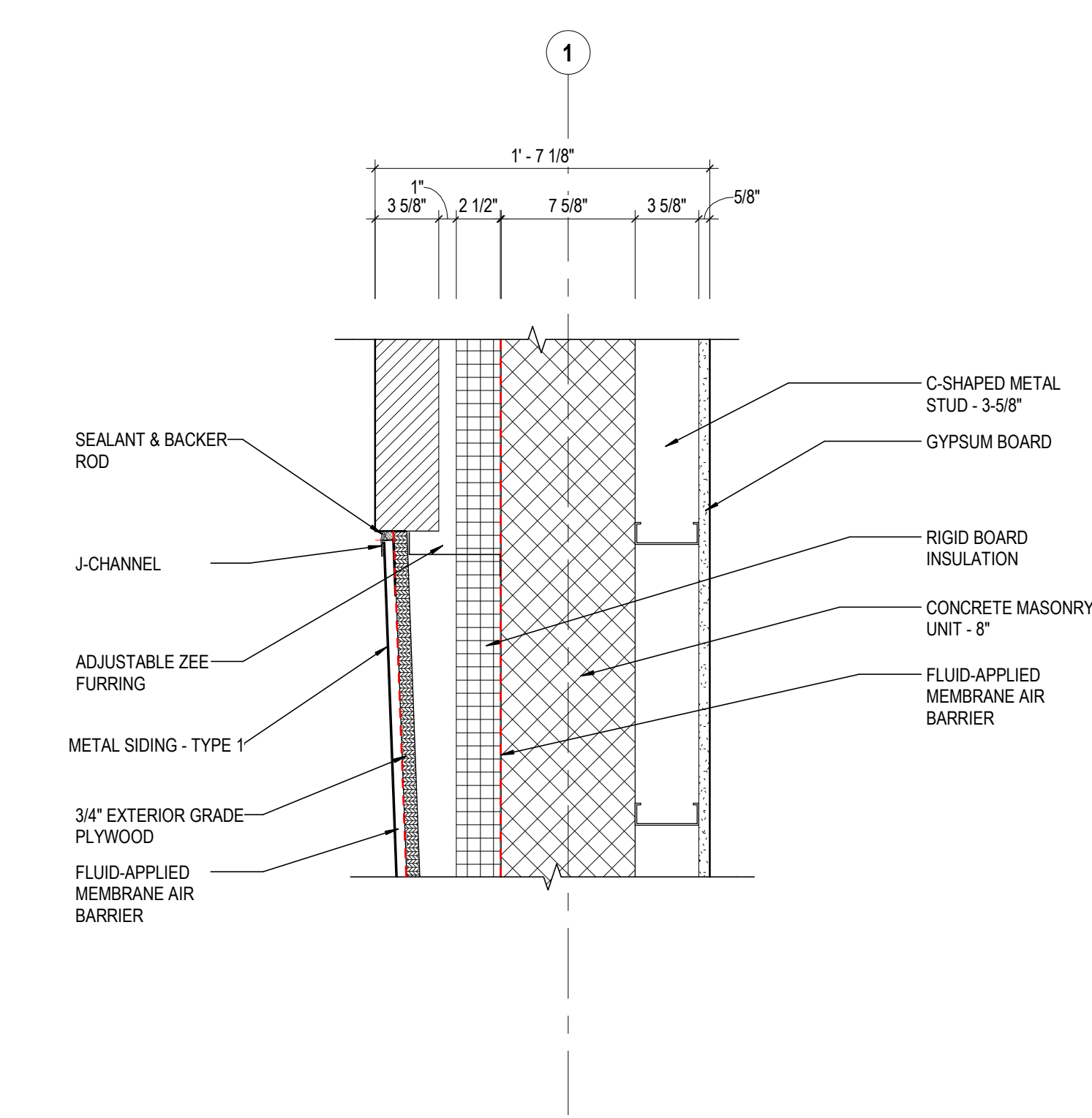
**7** DETAIL SF JAMB @ MTL STUD (TYP)  
1 1/2" = 1'-0" REF: 1 / A102



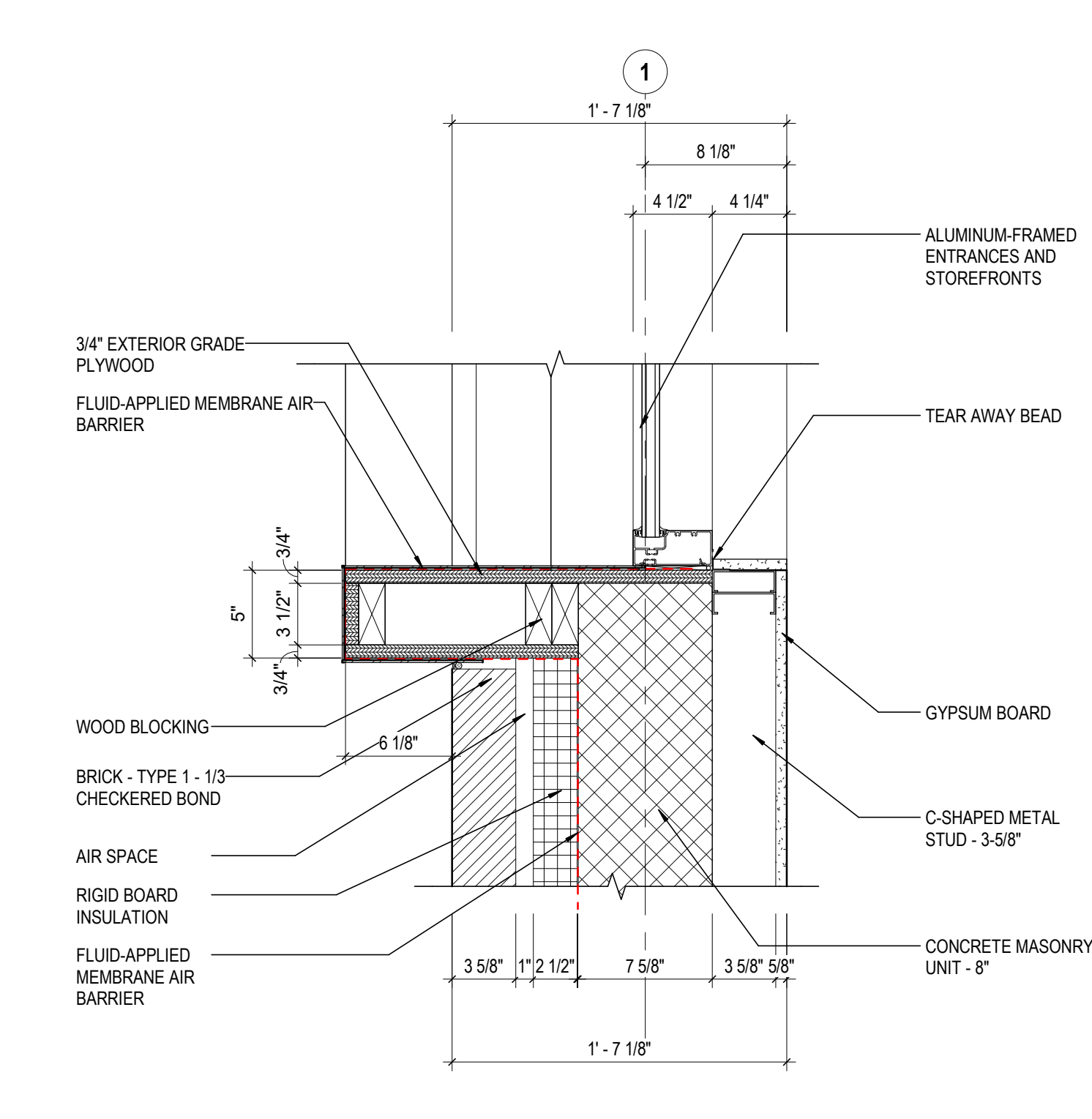
**4** DETAIL SF JAMB @ CMU (TYP)  
1 1/2" = 1'-0" REF: 1 / A102



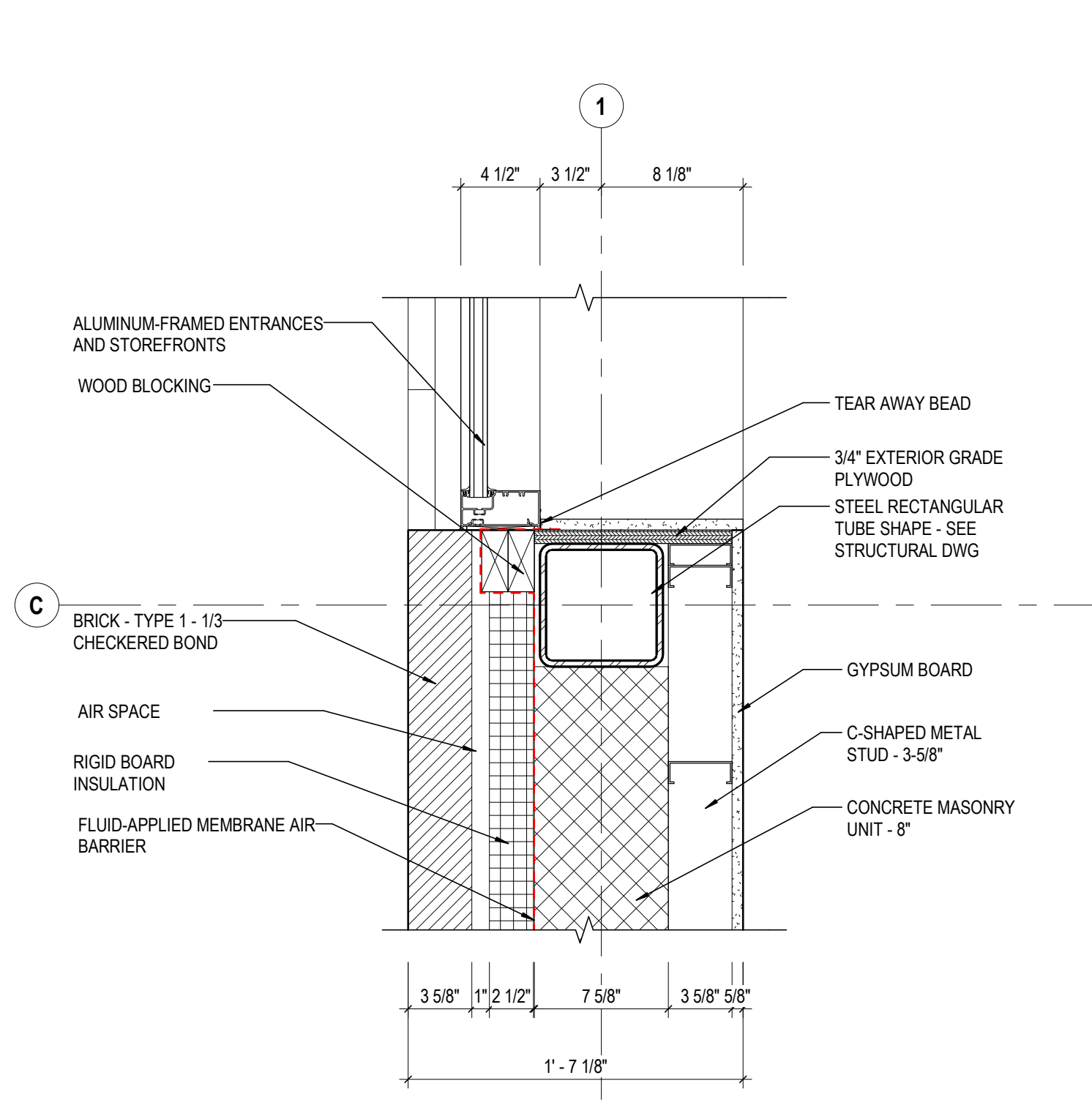
**1** DETAIL SOUTH CORNER @ C02  
1 1/2" = 1'-0" REF: 1 / A102



**9** DETAIL ANGELED PANEL TO BRICK  
1 1/2" = 1'-0" REF: 1 / A102



**6** DETAIL SF JAMB @ MTL PANEL  
1 1/2" = 1'-0" REF: 1 / A102



**3** DETAIL SF JAMB @ CMU W/ TUBE  
1 1/2" = 1'-0" REF: 1 / A102

**GENERAL NOTES - EXTERIOR DETAILS**

1. PROVIDE DAMPROOF MASONRY FOR ALL BELOW GRADE

**KEYNOTE LEGEND**

KEY VALUE	KEYNOTE TEXT
04 00 00 B/B	BRICK - TYPE 1 - 1/3 CHECKERED BOND
04 00 00 03	CONCRETE MASONRY UNIT - 8"
04 00 00 04	CONCRETE MASONRY UNIT - 6"
04 00 00 21	AIR SPACE
04 22 00 04	CONCRETE MASONRY UNIT - 8"
05 12 00 01	STEEL RECTANGULAR TUBE SHAPE - SEE STRUCTURAL DWG
05 40 00 04	C-SHAPED METAL STUD - 3-5/8"
05 40 00 05	C-SHAPED METAL STUD - 6"
05 40 00 08	6" CFMF STUDS - SEE STRUCTURAL DRAWINGS
05 58 00	FORMED METAL FABRICATIONS
06 10 00 01	WOOD BLOCKING
06 10 50 01	3/4" EXTERIOR GRADE PLYWOOD
06 10 50 02	5/8" EXTERIOR GRADE PLYWOOD
07 21 00 01	RIGID BOARD INSULATION
07 27 26	FLUID-APPLIED MEMBRANE AIR BARRIER
07 42 13 01	SUPPORT (SUBGIRT)
07 42 13 04	ADJUSTABLE ZEE FURRING
07 42 13 01	J-CHANNEL
07 46 10 01	METAL SIDING - TYPE 1
07 92 00 03	SEALANT & BACKER ROD
08 41 13	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
08 41 13 02	BREAK METAL TRIM
08 44 13	GLAZED ALUMINUM CURTAIN WALL
08 44 13 01	ALUMINUM FLASHING
08 81 00 01	INSULATED GLAZING
09 21 16 01	GYPSUM BOARD
09 21 16 05	EXTERIOR GYPSUM SHEATHING
09 21 16 07	TEAR AWAY BEAD
22 14 26 04	SECONDARY (EMERGENCY) ROOF DRAIN DOWNSPOUT NOZZLE. SEE PLUMBING DRAWINGS FOR DOWNSPOUT NOZZLE DETAIL.

#	DATE	CHANGE DESCRIPTION
1	8/18/2020	BULLETIN 05
2	11/03/2020	ASI 004
3	01/29/2021	BULLETIN 06

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DRAWING TITLE: **PLAN DETAILS**

FEBRUARY 21, 2020  
DRAWN BY: KG CHECKED BY: RP  
18428  
**A522**  
PERMIT SET

CURTIS J. MOODY, LIC. #7096  
EXP. DATE: 12/31/2019







**GENERAL:**

- DESIGN PARAMETERS:
  - SOIL BEARING PRESSURE: 3000 PSF
  - DESIGN LIVE LOADS:
    - STUDY ROOMS, OFFICE - 50 PSF + 20 PSF PARTITION LOAD
    - STAIRS, CORRIDORS, (1ST FLOOR) & ALL PUBLIC AREAS - 100 PSF
    - CORRIDORS OTHER THAN 1ST FLOOR - 80 PSF
    - STORAGE - 125 PSF
    - MECHANICAL ROOM - 150 PSF
    - ROOF DESIGN LIVE LOADS .25 PSF PLUS THE EFFECTS OF DRIFTING SNOW PER O.B.C LIVE LOAD REDUCTIONS COMPUTED IN ACCORDANCE WITH THE OHIO BUILDING CODE
  - ROOF SNOW LOAD DESIGN PARAMETERS
    - GROUND SNOW LOAD (Pg) = 25 PSF
    - FLAT-ROOF SNOW LOAD (Pf) = 20 PSF
    - SNOW EXPOSURE FACTOR (Ce) = 0.9
    - SNOW LOAD IMPORTANCE FACTOR (I) = 1.1
    - THERMAL FACTOR (Ct) = 1.0
 PROVISIONS FOR SNOW DRIFTING AND UNBALANCED SNOW LOAD SHALL BE CONSIDERED IN DESIGN.
  - WIND LOAD DESIGN PARAMETERS
    - BASIC WIND SPEED = 90 MPH
    - WIND LOAD IMPORTANCE FACTOR (I) = 1.15
    - EXPOSURE FACTOR (Ce) = 1.0 PARTIALLY EXPOSED
    - WIND EXPOSURE = EXPOSURE B
    - MAIN WIND DESIGN PRESSURE (P)
    - EXPOSURE B:  
WIND LOAD 0' - 30' = 18 PSF  
31' - 40' = 22 PSF
  - SEISMIC DESIGN PARAMETERS
    - SEISMIC USE GROUP - CATEGORY III
    - SEISMIC IMPORTANCE FACTOR (I) = 1.25
    - SPECTRAL RESPONSE COEFFICIENTS:  
SDS = 0.127  
SD1 = 0.098
    - SITE CLASS D
    - BASIC SEISMIC - FORCE RESISTING SYSTEM:  
MASONRY SHEAR WALLS
    - DESIGN BASE SHEAR = ### KIPS
    - ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE PROCEDURE
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE-DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- VERIFY BEFORE FABRICATION OR CONSTRUCTION, ALL OPENINGS, LINTELS, EQUIPMENT SUPPORTS AND OTHER CONSTRUCTION REQUIRED FOR MECHANICAL WORK.
- STRUCTURAL SUPPORTS ARE DESIGNED FOR EQUIPMENT LOADS SHOWN IN DRAWINGS. VERIFY EQUIPMENT WEIGHTS AND DIMENSIONS. CONTACT ARCHITECT IF ACTUAL WEIGHTS ARE GREATER THAN SHOWN.
- AVOID LOCATING CHASES, RISER AND CONDUIT WITHIN 16" OF EDGE OF BEAM, BEAM BEARING PLATE, GRILLAGE BEAM OR POINT OF LOAD CONCENTRATION.
- CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE ARCHITECT.
- PROVIDE LINTELS OF ADEQUATE SIZE FOR ALL OPENINGS NOT SPECIFICALLY NOTED ON THE DRAWINGS.
- ALL CONNECTIONS ARE TO DEVELOP FULL STRENGTH OF THE FRAMING MEMBERS UNLESS OTHERWISE NOTED. PROVIDE STIFFENER PLATES, BEARING STIFFENERS AND FASTENERS AS REQUIRED.
- BRACE ALL WALLS WITH ROOF OR FLOOR FRAMING FOR FULL STRENGTH LATERAL SUPPORT.
- OBTAIN FIELD MEASUREMENTS OF ALL COMPONENTS AND ENSURE ALL APPLICABLE CLEARANCES PRIOR TO THE PREPARATION OF SHOP DRAWINGS AND FABRICATIONS.
- DETAILS SHOWN ON THE ARCHITECTURAL DRAWINGS ARE PART OF THE STRUCTURAL REQUIREMENTS. IF THE REQUIREMENTS CONFLICT, THE STRICTER REQUIREMENTS SHALL GOVERN. NOTES, SPECIFICATIONS & TYPICAL DETAILS ARE ALL PART OF THE STRUCTURAL REQUIREMENTS. IF ANY OF THE REQUIREMENTS CONFLICT, THE STRICTER REQUIREMENTS SHALL GOVERN.
- WHERE CONTROL JOINT OR EXPANSION JOINT OF THE EXTERIOR WALL IS INDICATED, PROVIDE WATER-STOP ABOVE THE FINISHED FLOOR IF EARTH BACKFILL IS AGAINST THE JOINT.
- EXTEND ALL VERTICAL MASONRY CONTROL JTS. DOWN TO THE TOP OF THE CONCRETE FOOTING.  
  
DEFINITION: A/E SHALL MEAN ARCHITECT OR ENGINEER, ASSOCIATE ARCHITECT OR ASSOCIATE ENGINEER.

**MISC. ALLOWANCES:**

- CONTRACTOR SHALL FURNISH 1 TON OF #5 REINFORCING BARS DELIVERED TO THE JOB SITE IN STANDARD LENGTHS TO BE FABRICATED AND PLACED AS DIRECTED BY THE ARCHITECT. THE UNUSED MATERIAL SHALL BE REMOVED AND CREDITED TO THE PROJECT.
- PROVIDE AND ERECT 1 1/2 TONS OF STRUCTURAL AND/OR MISCELLANEOUS STEEL (STRUCTURAL SHAPES, ANGLES, PLATES, ETC.) TO BE USED AS DIRECTED BY THE ARCHITECT. CONNECTIONS TO BE FIELD-WELDED IF REQUIRED.
- INCLUDE AN ALLOWANCE TO INSTALL ONE TON OF REINFORCEMENT AND 20 CU YD OF GROUT TO BE PLACED IN MASONRY WALLS AS FIELD DIRECTED BY THE ARCHITECT
- INCLUDE AN ALLOWANCE FOR 6 ADDITIONAL PENETRATIONS OF UP TO 4" DIAMETER, AS FIELD DETERMINED, THROUGH STL GIRDERS.
- INCLUDE AN ALLOWANCE TO REMOVE AND REPLACE 20 CU YD OF UNSUITABLE SOIL AS FIELD DIRECTED BY THE SOIL ENGINEER.
- INCLUDE AN ALLOWANCE TO EXCAVATE SOIL & INSTALL 10 CU YD OF LEAN CONCRETE UNDER NEW FOOTING FOR SUITABLE BEARING SUPPORT.
- INCLUDE 60 LF OF #3 REBAR FOR SLAB CRACK CONTROL. SEE SLAB JOINT PLAN NOTE #1 ON DWG S100.

**CONCRETE:**

- CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF:
    - AMERICAN CONCRETE INSTITUTE CODES AND STANDARDS, INCLUDING, BUT NOT LIMITED TO ACI 318 (AS MODIFIED IN THE PROJECT MANUAL), ACI 305.1, ACI 306, ACI 314, ACI 315, ACI 318 AND SP-15.
    - CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE."
    - KEEP A COPY OF ACI 304, ACI 314 & ACI 315 FOR REFERENCE
  - SEE SPECIFICATIONS FOR 28 DAY STRENGTHS OF CONCRETE CLASSES & DESIGN MIX REQUIREMENTS.
    - MAX FLY ASH ALLOWED SHALL BE 20% OF PORTLAND CEMENT FOR ALL CLASS OF CONCRETE.
    - LEAN CONCRETE BELOW FOOTING - 1,500 PSI - MIN. PORTLAND CEMENT 376 lb/C.YD.
    - SEE SPECIFICATIONS FOR WHICH CLASSES OF CONCRETE ARE TO RECEIVE SUPERPLASTICIZER.
    - IN ADDITION TO WWF, PROVIDE FIBRILLATED POLYPROPYLENE FIBERS AS SECONDARY REINFORCEMENT FOR ALL ELEVATED SLABS & SLAB ON GRADE.
  - REINFORCING STEEL WITH THE FOLLOWING MINIMUM YIELD POINTS: 60 KSI - ALL OTHER UNLESS OTHERWISE NOTED.
  - ALL REINFORCING STEEL SHALL BE NEW DEFORMED BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60.
  - WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 DELIVERED IN FLAT SHEETS.
  - APPLY EPOXY BONDING AGENT TO ENTIRE CONTACT SURFACE BETWEEN ADJACENT CONCRETE POURS. ADD KEYED JOINTS AS DEPICTED IN DETAILS. APPLY EPOXY BONDING AGENT TO ENTIRE HC PRECAST SURFACE PRIOR TO POURING CONC TOPPING.
  - CONTRACTOR SHALL REVIEW ALL DRAWINGS (ELECT, ARCH, PLUMB & MECH) FOR SIZE AND LOCATION OF EMBEDDED ITEMS, SLEEVES, SLAB DEPRESSIONS, OPENINGS, ETC AS REQUIRED BY OTHER TRADES. RECONCILE THEIR EXACT SIZES & LOCATIONS BEFORE PROCEEDING WITH THE WORK. ALL ITEMS SHALL BE FURNISHED & INSTALLED PRIOR TO PLACEMENT OF CONCRETE. SECURE THE APPROVAL OF THE ARCHITECT PRIOR TO PLACING OPENINGS NOT SHOWN IN THE STRUCTURAL DRAWINGS.
  - WHERE BAR LENGTHS ARE GIVEN ON THE DRAWINGS, THE LENGTH OF ANY HOOK, IF REQUIRED, IS NOT INCLUDED. USE STANDARD 90-DEGREE BAR HOOK U.O.N.
  - PROVIDE HORIZONTAL CONTROL/CONSTRUCTIONS JOINTS IN SLABS AND VERTICAL CONTROL/CONSTRUCTION JOINTS IN WALLS AS SHOWN IN THE DRAWINGS. ALL BEAMS, SPANDRELS & SLABS SHALL BE CAST MONOLITHICALLY, EXCEPT FOR THE REQUIRED CONTROL/CONSTRUCTION JOINTS SHOWN IN THE DRAWINGS. CONTRACTOR SHALL SUBMIT ALTERNATE AND ADDITIONAL SAWCUT & CONSTRUCTION JOINT LOCATIONS AND DETAILS TO THE A/E FOR APPROVAL PRIOR TO CONSTRUCTION. AT LEAST 48 HOURS SHALL ELAPSE BETWEEN CASTING OF ADJOINING UNITS. REINFORCEMENT SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS UNLESS DETAILED OTHERWISE ON THE DRAWINGS. SUBMIT ALL SAWCUT & CONSTRUCTION JOINT LOCATIONS WITH REINFORCING STEEL SHOP DRAWINGS.
  - WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY SHALL BE LOCATED AT MID-SPAN OF BEAMS, SLABS AND WALLS, AND SHALL BE SUBJECT TO REVIEW BY THE A/E OR OWNER, UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS. PROVIDE A CONTINUOUS SHEAR KEY IN SLABS AND WALLS, AND A MINIMUM OF TWO CONTINUOUS HORIZONTAL KEYS IN BEAMS AND EACH JOIST. THE MINIMUM KEY SIZE SHALL BE 1 1/2" DEEP BY 1/3 THE WIDTH OF THE MEMBER. AT CONCRETE SLABS ON STEEL DECK, SUPPORTED BY STEEL BEAMS AND GIRDERS, CONSTRUCTION JOINTS SHALL BE PLACED AT MID-SPAN OF DECK AND MID-WAY BETWEEN GIRDERS.
  - REINFORCE ALL SLABS WITH ONE LAYER OF WELDED WIRE FABRIC AS FOLLOWS UNLESS OTHERWISE NOTED OR UNLESS BOTTOM REINFORCING BARS ARE CALLED FOR IN TWO DIRECTIONS:
 

6x6xW1.4/W1.4	IN CONC CAST ON GROUND & ALL OTHER SLABS PLACE WWF 2" BELOW TOP OF CONCRETE IN SLAB-ON-GRADE.
6x6xW2.9/W2.9	IN CONC ON ELEVATED COMPOSITE STL DECKING

 IN ADDITION TO WWF, PROVIDE FIBRILLATED POLYPROPYLENE FIBERS AS SECONDARY REINFORCEMENT FOR ALL CONCRETE SLABS. SEE SPECIFICATIONS FOR MIX REQUIREMENTS.
  - LAP ALL COMPRESSION SPLICES 30 BAR DIAMETERS. LAP ALL OTHER SPLICES IN ACCORDANCE WITH THE FOLLOWING:
    - IF NOT MORE THAN ONE-HALF OF THE BARS ARE LAP SPLICES WITHIN A LAP LENGTH, PROVIDE LAPS IN ACCORDANCE WITH THE FOLLOWING TABLE ( CLASS B SPLICES):
 

BAR SIZE	#3	#4	#5	#6	#7	#8	#9
*TOP BARS	1'-4"	1'-10"	2'-3"	2'-11"	3'-5"	4'-7"	5'-9"
*OTHER BARS	1'-4"	1'-4"	1'-8"	2'-1"	2'-8"	3'-3"	4'-1"

 \*HORIZONTAL BARS WITH NOT MORE THAN 12 INCHES OF CONCRETE. BELOW.
    - IF MORE THAN ONE-HALF OF THE BARS ARE LAP SPLICED WITHIN A LAP LENGTH, INCREASE THE ABOVE TABULATED LAP LENGTHS 30% (CLASS C SPLICES).
  - FURNISH CLEARANCE BETWEEN REINFORCING STEEL AND THE CONCRETE SURFACE AS FOLLOWS:
 

3"	CONCRETE PLACED AGAINST GROUND.
2"	FORMED SURFACES EXPOSED TO WEATHER OR GROUND.
1 1/2"	BEAMS AND COLUMNS.
3/4"	SLAB, JOISTS AND WALLS NOT EXPOSED TO WEATHER.
  - REINFORCE WALLS WITH #5 BARS AT 12" O.C. EACH WAY UNLESS OTHERWISE NOTED. PROVIDE 2-#5 BARS AROUND ALL OPENINGS AND EXTEND 2'-0" BEYOND OPENING.
  - KEY AND DOWEL ALL AREAWAY AND OTHER PROJECTING ELEMENTS TO SUPPORTING WALLS WITH #4 BARS @ 12" O.C. EXTENDING 1'-0" INTO SUPPORTING WALL UNLESS OTHERWISE NOTED.
  - BEND ALL HORIZONTAL WALL, BOND BEAM, AND FOOTING BARS 1'-0" AROUND CORNERS OR PROVIDE CORNER BARS WITH 2'-0" LAP. SEE TYPICAL CORNER BAR DETAILS ##S00#.
  - PROVIDE 3/4"x45 DEGREE CHAMFER ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS & WALLS, UNLESS OTHERWISE NOTED.
  - OBTAIN APPROVAL OF A/E BEFORE LOCATING SLEEVES, HOLES OR INSERTS IN SLABS WITHIN 2'-0" OF FACE OF COLUMNS OR ANYWHERE IN BEAMS, JOISTS, OR COLUMNS.
  - PROVIDE HORIZONTAL KEYWAYS IN CONSTRUCTION JOINTS IN BEAMS, JOISTS, SUPPORTED SLABS AND WALL FOOTINGS WITH A MINIMUM 1 1/2" DEPTH AND HEIGHT EQUAL TO ONE-THIRD OF MEMBER DEPTH.
  - CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL NOT BE SPACED FARTHER THAN 40 FEET. USE THE LONG STRIP METHOD OF CONSTRUCTION RECOMMENDED BY ACI 302.1R80 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION."
  - PROVIDE EPOXY COATED REINFORCING AT THRESHOLD SLABS @ DOORWAYS. NOTE: INCREASE LAP LENGTH 30 PERCENT.
- CONTRACTOR SHALL FURNISH 1 TONS OF #5 REINFORCING BARS DELIVERED TO THE JOB SITE IN STANDARD LENGTHS AND FABRICATED AND PLACED AS DIRECTED BY THE A/E. THE UNUSED MATERIAL SHALL BE REMOVED AND CREDITED TO THE PROJECT.

RFI 20

**FOUNDATION**

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH SUB-SURFACE INVESTIGATION REPORT BY GEOTECHNICAL CONSULTANTS, INC. (GCI) DATED JULY 8, 2019. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SURVEY AND THE SUB-SURFACE INVESTIGATION REPORT BEFORE BEGINNING CONSTRUCTION. A COPY OF THE SOILS AND FOUNDATION INVESTIGATION REPORT IS AVAILABLE IN THE SPECIFICATION MANUAL.
- CONFORM TO THE RECOMMENDATION OF THE SOIL ENGINEER FOR EXCAVATION, BACKFILL, PREPARATION OF SUBSOIL, UNDERCUTTING AND COMPACTION OF EXISTING SOIL, ENGINEERED BACKFILL, BUILDING PAD PREPARATION, SITE DRAINAGE, ETC. FOR EARTH WORK FOR BUILDING CONSTRUCTION
- NOTIFY THE A/E AS SOON AS POSSIBLE OF ANY UNUSUAL SOIL CONDITIONS OR SOIL CONDITIONS IN VARIANCE WITH TEST BORINGS, SUCH AS UNEXPECTED SPRING OR SEEPAGE WATER, MATERIAL DIFFERING FROM TEST BORINGS, OR SOIL OF QUESTIONABLE BEARING CAPACITY.
- SET FOUNDATIONS AT ELEVATIONS SHOWN, OR ON FIRM UNDISTURBED MATERIAL OF DESIGN BEARING CAPACITY, WHICHEVER IS LOWER. THE CONTRACTOR SHALL RETAIN AN INDEPENDENT SOIL ENGINEERING CONSULTANT TO VERIFY THAT EACH FOOTING PLACED IS BEARING CAPACITY, PER SUB-SURFACE INVESTIGATION REPORT
- DOWELS IN FOOTINGS TO MATCH VERTICAL COLUMN OR WALL REINFORCING UNLESS SHOWN OTHERWISE.
- STRUCTURAL FILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 98% STANDARD PROCTOR DENSITY. UNLESS STRICTER REQUIREMENT IS SPECIFIED, OR RECOMMENDED BY THE SOIL ENGINEER.
- PROVIDE LEAN CONCRETE UNDER ALL OVER-EXCAVATION OF FTG
- NO BACKFILLING OF FOUNDATION WALLS SHALL BE UNDERTAKEN UNTIL SUITABLE WALL BRACING, TEMPORARY OR PERMANENT, HAS BEEN PROVIDED. BACKFILL BOTH SIDES OF WALL SIMULTANEOUSLY UNLESS BRACED WALL CONSTRUCTION IS INDICATED.
- DO NOT PLACE FILL ON FROZEN GROUND. ALL SOIL SURROUNDING AND UNDER FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION. SOIL THAT HAS BEEN ALLOWED TO FREEZE SHALL BE REMOVED.
- BOTTOMS OF EXTERIOR FOOTINGS SHALL BE AT LEAST 32" BELOW FINISHED GRADE OR AS PER THE LOCAL FROST DEPTH REQUIREMENT, WHICHEVER IS GREATER.
- SUPPORT RETAINING WALLS AND FOUNDATION WALLS LATERALLY WITH FIRST FLOOR FRAMING BEFORE PLACING ANY BACKFILL AT THE CONTRACTOR'S OPTION, WALLS MAY BE BRACED AND BACKFILL INSTALLED. ANY SUCH BRACING SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL THE FIRST FLOOR IS COMPLETED TO THE SATISFACTION OF THE A/E.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND FINAL CLEARANCE OF ANY REQUIRED NEEDLING, UNDERPINNING, SHORING, OR BRACING OF EXISTING STRUCTURES, AS RECOMMENDED BY THE SOIL ENGINEER.
- EXCAVATION THROUGH EXISTING SLABS ON GRADE SHALL BE CONDUCTED SO AS NOT TO UNDERMINE REMAINING SLABS UNDERMINED SLABS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- PROVIDE 6" COMPACTED GRANULAR FILL UNDER ALL SLABS ON GRADE UNLESS OTHERWISE NOTED ON PLAN OR IN SOIL REPORT.

**STEEL DECK:**

- STEEL DECK FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST STEEL DECK INSTITUTE SPECIFICATIONS
  - DECK SHALL INCLUDE ANY MISCELLANEOUS CLOSURE PIECES, METAL SCREEDS, ROOF CURBS, DRAINS SUMP PANS, REINFORCING AROUND OPENINGS, ETC., REQUIRED TO MAKE A COMPLETE JOB. MISCELLANEOUS ITEMS SHALL BE GALVANIZED.
- DECK SHALL BE PUDDLE WELDED (5/8" DIAMETER MINIMUM) TO THE SUPPORTS AT 12" O.C. MAXIMUM WITH THE FIRST AND LAST RIBS OF EACH SHEET WELDED TO THE SUPPORTS. SIDE LAPS SHALL BE SCREWED WITH #10 SELF-TAPPING SCREWS AT 36" O.C. THE HEADED STUDS IN COMPOSITE CONSTRUCTION MAY BE SUBSTITUTED FOR WELDS. PROVIDE WELDING WASHERS. PROVIDE A MINIMUM OF 2 SIDE LAP FASTENERS BETWEEN SUPPORTS. FASTEN AT THE PERIMETER OF EACH LEVEL AT 6" O.C. BY WELDING.

**THE STEEL DECK SHALL BE AS FOLLOWS:**

- METAL ROOF DECK:
  - METAL ROOF DECK SPECIFICALLY MARKED AS 3" DEEP 20 GAGE WIDE RIB DECK SHALL BE LAID SINGLE SPAN. THE DECK SHALL BE FASTENED TO THE SUPPORTING MEMBERS WITH 5/8" DIA PUDDLE WELDS SPACED AT 12" O.C. PROVIDE A MINIMUM OF 3 SIDE LAP FASTENERS BETWEEN SUPPORTS. FASTEN DECK AT 6" ON CENTER ALONG THE PERIMETER OF EACH THE ROOF DECK LEVEL. ALL 3" DECK SHALL BE ACOUSTIC DECK. 20 GA =0.0358" OR 33 MILS
  - METAL ROOF DECK SHALL BE 1 1/2" DEEP (ELEVATOR ROOF CAP & MECHANICAL ROOF LEVEL) 20 GAGE WIDE RIB DECK. THE DECK SHALL BE LAID CONTINUOUS OVER 2 SPANS. THE DECK SHALL BE FASTENED TO THE SUPPORTING MEMBERS WITH 5/8" DIA PUDDLE WELDS SPACED AT 12" O.C. PROVIDE A MINIMUM OF 2 SIDE LAP FASTENERS BETWEEN SUPPORTS. FASTEN DECK AT 6" O.C. ALONG THE PERIMETER OF EACH ROOF DECK LEVEL.
  - METAL ROOF DECKS ARE UN-RESTRAINED UL ASSEMBLIES.
- COMPOSITE DECK
  - FABRICATE PANELS WITH INTEGRALLY EMBOSSED OR RAISED PATTERN RIBS AND INTERLOCKING SIDE LAPS TO COMPLY WITH SDI PUBLICATION NO. 29 "SPECIFICATIONS AND COMMENTARY FOR COMPOSITE STEEL FLOOR DECK".
    - PROVIDE 2" DP - 20 GA MIN (T=0.0358" OR 33 MILS) COMPOSITE DECK
    - PROVIDE 1 1/2" DP - 20 GA COMPOSITE DECK AT STAIR LANDINGS.
  - INSTALL DECK PANELS AND ACCESSORIES ACCORDING TO APPLICABLE SPECIFICATIONS AND COMMENTARY OF SDI PUBLICATION NO. 29 AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
  - FASTEN ALL COMPOSITE DECK TO SUPPORTS WITH 5/8" DIAMETER PUDDLE WELDS SPACED NO FARTHER THAN 12" O.C. PROVIDE WELDING WASHERS AT ALL WELDS.
  - INSTALL TEMPORARY SHORING BEFORE PLACING DECK PANELS WHEN REQUIRED TO MEET DEFLECTION LIMITATIONS.
  - PROVIDE POUR STOPS, CLOSURES AS REQUIRED.
    - 6) CONCRETE COMPOSITE FLOORS ARE RESTRAINED UL ASSEMBLIES

**MASONRY:**

- MORTAR: MINIMUM COMPRESSIVE STRENGTH: (TYPE S = 1,800 PSI)
- PROVIDE THE FOLLOWING MINIMUM WALL REINFORCEMENT:
 

VERTICAL:	AS NOTED IN PLANS AND DETAILS
HORIZONTAL:	LADDER REINFORCING @ 16" O.C. MIN. EFFECTIVE AREA = 0.148 SQ.IN. (9 GA), U.O.N. ANY CMU WALLS MARKED NON-BRG ON PLANS SHALL HAVE #4V @ 48" O.C. MIN.
- START REINFORCING AT THE CORNER/END OF EACH WALL. PROVIDE ADDITIONAL VERTICAL REINFORCING AT INTERSECTIONS, WALL ADJACENT TO STEEL COLUMNS, MASONRY CONTROL JOINTS, LINTEL AND BEAM BEARING. FILL CORES OF WALLS SOLID WHERE REINFORCING IS TO BE INSTALLED WITH CEMENT GROUT (ASTM C476). DO NOT USE MORTAR. CONTRACTOR MAY USE PEA GRAVEL CONCRETE IN LIEU OF GROUT.
- PROVIDE CONT BOND BEAMS AS NOTED ON PLANS AND SECTIONS. BOND BEAM TO BE INTEGRAL WITH MASONRY COLUMNS. BOND BEAM REINFORCING SHALL BE CONTINUOUS AT CONTROL JOINTS. PROVIDE ADD'L LAPPED BARS @ CORNERS TO CONTINUE REINF
 

BOND BM	REINF
4" CMU	1 - #3
6" CMU	1 - #4
8" CMU	2 - #5
12" CMU	4 - #5 (2 T. & B.)
- COMPLY WITH RECOMMENDATIONS OF NATIONAL CONCRETE MASONRY ASSOCIATION FOR CONSTRUCTION, ERECTION AND BONDING OF MASONRY STRUCTURES.
- FILL ANY MASONRY VOIDS WITH MORTAR OR CONCRETE WHERE ANCHORS OCCUR
- ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530.92) AND SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-92).
- ALL MASONRY PILASTERS AND COLUMNS SHALL BE REINFORCED VERTICALLY WITH 1-#5 BAR IN EACH CORE OF THE BLOCK UNLESS OTHERWISE NOTED. PROVIDE 9 GAGE LATERAL TIES IN ALL MASONRY PILASTERS AND COLUMNS AT EVERY BLOCK COURSE (8 IN. O.C. VERTICALLY). BOND PILASTERS TO ADJACENT MASONRY WALLS WITH INTERLOCKING UNITS.
- UNLESS SPECIFICALLY INDICATED OTHERWISE, PROVIDE CONTROL JOINTS AT 25 FEET O.C. FOR EXTERIOR MASONRY WALLS AND 35 FEET O.C. FOR INTERIOR MASONRY WALLS.
- PROVIDE VERTICAL CONTROL JT WHERE INTERIOR MASONRY WALLS ARE PERPENDICULAR TO EXTERIOR MASONRY WALLS. ALSO, VERTICAL MASONRY CONTROL JOINTS SHOULD BE PLACED WHEREVER NON-BRG MASONRY WALLS INTERSECT BRG WALLS.
- ALL MASONRY WALLS SHOWN ON STRUCTURAL FOUNDATION PLANS ARE "LOAD-BEARING" UNLESS OTHERWISE NOTED.
- GROUT POCKET IN WALL SOLID OR FILL WITH MASONRY AFTER INSTALLATION OF BEAMS & JOISTS.
- SEE DWG S004 FOR STEEL LINTEL SCHEDULE FOR MASONRY WALLS, SECTIONS & DETAILS.
- PROVIDE SLEEVES FOR ALL PENETRATIONS THROUGH MASONRY WALLS UNLESS A LINTEL IS PROVIDED OR OTHERWISE SPECIFICALLY NOTED; AS FOLLOWS:
  - SLEEVES SHALL BE SCHEDULE 40 STEEL PIPE GROUTED
  - MINIMUM CLEAR DISTANCE BETWEEN SLEEVES = 3"
  - MASONRY BETWEEN THE OPENINGS WITH LESS THAN 12"
  - INFILL ALL VOIDS WITH SOLID MASONRY OR GROUT.
  - COORDINATE LOCATIONS WITH ELECTRICAL/MECHANICAL.
- GROUT ALL FOUNDATION WALL CMU CORES SOLID AT ALL LOCATIONS BELOW GRADE AND UP TO F.F. ELEVATION ON PLAN.

**CONNECTIONS, FASTENERS AND ACCESSORIES**

UNLESS SPECIFICALLY NOTED OTHERWISE, PROVIDE FASTENERS AND ACCESSORIES AS INDICATED HEREIN:

- PROVIDE TYPE 304 OR 316 STAINLESS-STEEL FASTENERS FOR EXPOSED TO EXTERIOR (TYP @ CANOPIES) AND ZINC PLATED FASTENERS WITH COATING WITH ASTM B 689, CLASS FE/ZN 5, WHERE BUILT INTO EXTERIOR WALLS. SELECT FASTENERS FOR TYPE, GRADE AND CLASS REQUIRED.
- ANCHOR BOLTS: ASTM F 1554, GRADE 36. MACHINE SCREW: ASME B 18.6.3 LAG BOLT: ASME B18.2.3 PLAIN WASHERS: ROUND, CARBON L, ASME B 18.22.1 LOCK WASHER: HELICAL, SPRING TYPE, CARBON STEEL, ASME B 18.21.1
- EXPANSION ANCHORS: ANCHOR BOLT AND SLEEVE ASSEMBLY MATERIAL INDICATED BELOW WITH CAPABILITY TO SUSTAIN, WITHOUT FAILURE, A LOAD EQUAL TO SIX TIMES THE LOAD IMPOSED WHEN INSTALLED IN UNIT MASONRY AND DETERMINED BY TESTING PER ASTM E 488, CONDUCTED BY A QUALIFIED INDEPENDENT TESTING AGENCY.
- GROUT: NON-SHRINK, NON-METALLIC GROUT: FACTORY PACKAGED, NON-STAINING, NON-CORROSIVE, NON-GASEOUS GROUT COMPLYING WITH ASTM C 1107. PROVIDE GROUT SPECIFICALLY RECOMMENDED BY MANUFACTURER FOR INTERIOR AND EXTERIOR APPLICATIONS.
- CAST-IN-PLACE ANCHORS IN CONCRETE: ANCHORS OF TYPE INDICATED BELOW, FABRICATED FROM CORROSION-RESISTANT MATERIALS CAPABLE OF SUSTAINING, WITHOUT FAILURE, THE LOAD IMPOSED WITHIN A SAFETY FACTOR OF 4, AS DETERMINED BY TESTING PER ASTM E 488, CONDUCTED BY A QUALIFIED INDEPENDENT TESTING AGENCY.
- THREADED OR WEDGE TYPE: GALVANIZED FERROUS CASTINGS, ASTM A47 MALLEABLE IRON OR ASTM A27 CAST STEEL. PROVIDE BOLTS, WASHERS AND SHIMS AS NOTED, HOT-DIP GALVANIZED PER ASTM A153.
- WELDING RODS AND BARE ELECTRODES: SELECT ACCORDING TO AWS SPECIFICATIONS FOR METAL ALLOY WELDED.
- MINIMUM EMBEDMENT OF FASTENERS SHALL BE AS FOLLOWS U.O.N. 3/8" DIA. - 3" LG EMBEDMENT 1/2" DIA. - 6" LG 3/4" DIA. - 6" LG MAXIMUM SPACING SHALL BE 24" O.C.
- SEE STRUCTURAL STEEL NOTES ON DWG S002 FOR WELDING REQUIREMENTS.

RFI 43

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Phone: (614) 899-6707 Fax: (614) 899-7503

#	DATE	CHANGE DESCRIPTION
2	01/31/2020	Addenda #4

**CML KARL ROAD BRANCH**  
5598 KARL ROAD  
COLUMBUS, OH 43229  
FOR  
**COLUMBUS METROPOLITAN LIBRARY**

300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

DRAWING TITLE:

**STRUCTURAL NOTES**

2/21/2020  
DRAWN BY: AB CHECKED BY: SPS  
18428  
**S001**  
PERMIT SET



**STRUCTURAL STEEL:**

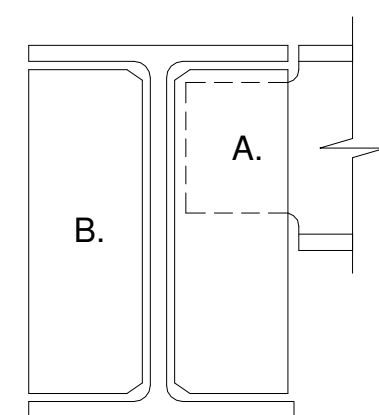
- STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (AISC STEEL CONSTRUCTION MANUAL) ASD & LRFD" LATEST EDITION
- WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1 - LATEST EDITION
- BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A-325 OR A-490 BOLTS - ALLOWABLE STRESS DESIGN" AS APPROVED BY THE COUNCIL ON RIVETED AND BOLTED JOINTS. USE BEARING-TYPE BOLTS WITH THREADS ALLOWED ACROSS THE SHEAR PLANE. ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.
- STRUCTURAL STEEL:
  - USE ASTM A992 GRADE 50 STEEL FOR WIDE FLANGE SHAPES. USE ASTM A572 GRADE 50 STEEL FOR ANGLES AND PLATES.
  - ASTM A36, BARS AND RODS
  - ASTM A500, GRADE B; TUBING.
  - ASTM A53, TYPE E OR S, GRADE B; STEEL PIPE
  - EXPANSION BOLTS: HILTI "KWIK-BOLTS" OR APPROVED EQUAL
  - EPOXY ANCHORS: HILTI OR APPROVED EQUAL.
- WELDING ELECTRODES SHALL BE E-70 OR BETTER. FOR WELDING SYMBOLS WITH NO LENGTH DIMENSION GIVEN, THE WELDING SHALL BE CONTINUOUS BETWEEN ABRUPT CHANGES IN DIRECTION.
- UNLESS DETAILED OTHERWISE, THE MINIMUM FIELD WELD SIZE IS A CONT 3/16" FILLET WELD ALL AROUND ALL CONTACT EDGES OF TWO ADJACENT STEEL SURFACES. UNLESS DETAILED OTHERWISE, MINIMUM SHOP WELD SIZE IS A CONT 1/4" FILLET WELD ALL AROUND ALL CONTACT EDGES OF TWO ADJACENT STEEL SURFACES.
- IN GENERAL, IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT ALL SHOP CONNECTIONS BE WELDED AND ALL FIELD CONNECTIONS BE BOLTED EXCEPT WHERE NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, THE BEAM CONNECTIONS SHALL BE DESIGNED FOR THE REACTIONS SHOWN ON THE DRAWINGS. THESE REACTION VALUES SHALL BE THE SAME ON EACH END U.O.N. WHEN REACTIONS ARE NOT GIVEN ON PLANS, THE MINIMUM VALUES SHALL BE AS FOLLOWS:

BEAM	NON-COMPOSITE	COMPOSITE
W6	15 KIPS	18 KIPS
W8	19 K	22 K
W10	24 K	27 K
W12	35 K	40 K
W14	40 K	44 K
W16	45 K	50 K
W18	50 K	55 K
W21	60 K	66 K
W24	75 K	84 K
W27		

- MOMENT CONNECTIONS INDICATED ON THE DRAWINGS SHALL BE DESIGNED FOR THE MOMENTS NOTED. IF NO DESIGN MOMENTS IS INDICATED, THEN THE FULL CAPACITY OF THE SECTION MUST BE DEVELOPED.
  - TRUSS MEMBER AND WIND BRACING CONNECTIONS SHALL BE DESIGNED FOR THE FORCES INDICATED ON THE DRAWINGS.
  - EXCEPT AS NOTED HEREIN, ALL OTHER CONNECTIONS TO DEVELOP FULL STRENGTH OF MEMBERS. PROVIDE STIFFENER PLATES, BEARING STIFFENERS AND STIFFENER ANGLES AS REQUIRED
- VERIFY THE EXACT SIZE AND LOCATION OF ALL OPENINGS PRIOR TO FABRICATION OF STEEL FRAMING MEMBERS.
  - OPENING THROUGH STEEL BEAMS SHALL BE PROVIDED AS DETAILED ON THE DRAWINGS. ALL SUCH OPENINGS SHALL BE MACHINE CUT. ALL RECTANGULAR OPENINGS SHALL HAVE A CORNER RADIUS OF 2 TIMES THE WEB THICKNESS, 1/2" MINIMUM.
  - PROVIDE BEARING PLATES UNDER STEEL BEAMS OF ADEQUATE SIZE TO KEEP MASONRY BEARING PRESSURE UNDER 200 PSI. STEEL BEAMS AND GIRDERS SHALL BEAR A MINIMUM OF 8" ON MASONRY, UNLESS OTHERWISE NOTED. MINIMUM THICKNESS OF BEARING PLATE SHALL BE 1/2" U.O.N. ON BM BRG PLATE SCHEDULE ON DWG S00.
  - COLUMN SPLICES SHALL BE DESIGNED IN ACCORDANCE WITH TABLE C-3, PAGE C-10 OF THE AISC "STRUCTURAL STEEL CONNECTIONS, VOL II" MANUAL, 9TH EDITION.
  - PROVIDE A NON-METALLIC, NOT-SHRINK GROUT UNDER ALL COLUMN BASE PLATES AND BEAM BEARINGS.
  - EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLID MASONRY OR CONCRETE SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:  
1/2" DIAMETER BOLTS - 6" EMBEDMENT  
3/4" DIAMETER BOLTS - 8" EMBEDMENT
  - PROVIDE LINTELS OF ADEQUATE DESIGN OVER ALL OPENINGS NOT OTHERWISE COVERED. EXTEND BOTTOM PLATE ON MASONRY BEARING LINTELS TO END OF MEMBER UNLESS OTHERWISE NOTED.
  - PROVIDE 3/4" CAP PLATE OVER ALL COLUMNS HAVING BEAM BEARING, AND FIELD WELD THE BEAM FLANGE TO THE CAP PLATE WITH 5/16" FILLET WELD ALL AROUND.
  - PROVIDE 1/4" THICK WEB STIFFENERS FOR BEAMS LESS THAN 16" IN DEPTH AND 3/8" OR BEAMS 16" OR DEEPER IN ALL LINTELS AND BEAMS AT MASONRY BEARING, AND A PAIR OF WEB STIFFENERS ALIGNED WITH THE FACE OF TUBE COLUMNS WHERE BEAM IS BEARING ON THE TOP OF THE COLUMN CAP PLATE.
  - UNLESS OTHERWISE APPROVED, THE BEAMS SUPPORTING ROOF OR FLOOR DECKS SHALL BE CAMBERED FOR DEAD LOAD DEFLECTIONS ONLY.
  - PROVIDE MASONRY ANCHORS AT 16" O.C EACH SIDE, FOR ALL MASONRY ABUTTING COLUMNS. [SEE](#) DETAIL # [S003](#)
  - SEE SLEEVE REQUIREMENTS IN MASONRY NOTES.
  - GUSSET TAB CONNECTION MAY BE USED IN BM-TO-BM CONNECTIONS WHEN THE LOAD TRANSFERRED TO THE PRIMARY BEAM IS LESS THAN THE LIMIT LISTED HEREIN:

GUSSET TAB LIMIT TABLE Max allowable load

BEAM	SHEAR LOAD @ CONN
W6	8 KIPS
W8	12 K
W10	15 K
W12	20 K
W14	25 K
W16	32 K
W18	45 K
W21	55 K
W24	80 K



- USE FULL HT GUSSET TAB WHEREVER SECONDARY BM HT IS MORE THAN 50% OF PRIMARY BM HT
- PROVIDE STIFF PL ON F.S. OF BM WEB AT A SINGLE (OR UNMATCHED) SECONDARY BM CONN.
- UNLESS DETAILED OTHERWISE, THRU-PLATES ARE TO BE USED AS BM TO COL CONNECTIONS IN CONJUNCTION W/ A STIFFENED ANGLE SEAT W/ A MIN ACTUAL BRG L= 4" MIN. FOR W16 OR SMALLER, INCREASE BRG LENGTH ON ANGLE SEAT TO 5" FOR W18 TO W24 BEAMS, OR 6" BRG LENGTH FOR W27 OR LARGER BEAMS. SEE SECTIONS 8a & [89](#)/S004.

**STEEL FRAMED STAIRS AND HANDRAILS**

- SUBMIT SHOP DRAWING FOR FABRICATION AND ERECTION OF METAL FABRICATIONS. INDICATE PROFILES, SIZES, CONNECTION ATTACHMENTS, REINFORCING, ANCHORAGE, SIZE AND TYPE OF FASTENERS, AND ACCESSORIES. PROVIDE TEMPLATE FOR ANCHOR AND BOLT INSTALLATION BY OTHER TRADES. SHOW ALL FIELD CONNECTIONS AND FIELD MEASUREMENTS.
- COMPLY WITH NAAMM MINIMUM STANDARDS FOR CONSTRUCTION, INSTALLATION, PROPORTIONS AND DIMENSIONS OF FIXED METAL STAIRS AND HANDRAILS
- PREASSEMBLE ITEMS IN SHOP TO GREATEST EXTENT POSSIBLE TO MINIMIZE FIELD SPLICING AND ASSEMBLY. PREASSEMBLE UNITS ONLY AS NECESSARY FOR SHIPPING & HANDLING LIMITATIONS, CLEARLY MARK UNITS FOR REASSEMBLY AND COORDINATED INSTALLATION.
- PERFORMANCE REQUIREMENTS:
  - METAL STAIR ASSEMBLIES SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A MINIMUM UNIFORM LIVE LOAD OF 100 POUNDS PER SQUARE FOOT OF PROJECTED PLAN AREA. TREADS SHALL CARRY A 300 POUND CONCENTRATED LOAD AT MID-SPAN
  - HANDRAILS SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A CONCENTRATED LOAD OF 250 POUNDS APPLIED AT ANY POINT AND IN ANY DIRECTION
- CONSTRUCT STAIR UNITS TO CONFORM TO SIZES AND ARRANGEMENTS SHOWN. PROVIDE COMPLETE STAIR ASSEMBLIES INCLUDING METAL FRAMING, CLIPS, BRACKETS, BEARING PLATES AND OTHER COMPONENTS FOR THE SUPPORT OF STAIRS.
- PROVIDE BRACKETS AND BEARING SURFACES AS REQUIRED TO ANCHOR AND CONTAIN THE STAIRS ON THE SUPPORTING STRUCTURE.
- ERECT STAIR WORK TO ALIGN PLUMB, SQUARE & TRUE WITH RUNS REGISTERING LEVEL WITH FLOOR AND PLATFORM LEVELS.
- USE WELDING FOR JOINING PIECES TOGETHER. FABRICATE UNITS SO THAT BOLTS AND OTHER FASTENINGS DO NOT APPEAR ON FINISHED SURFACE. MAKE JOINTS TRUE AND TIGHT AND MAKE CONNECTIONS BETWEEN PARTS LIGHTPROOF TIGHT
- PROVIDE CONTINUOUS WELDS, GROUND SMOOTH WHERE EXPOSED.
- FABRICATE STRINGERS USING HSS 12x2x1/4 TUBES. PROVIDE CLOSURE PLATES AT EXPOSED ENDS OF STRINGERS WHERE STRINGERS ARE ADJ TO CMU WALLS, BOLT STRINGER TO WALL UNDER EVERY OTHER TREAD W/ 3/4" DIA EPOXY ANCHORS, PROVIDE CLOSURE PLATES FOR EXPOSED ENDS OF STRINGERS.
- FURNISH AND INSTALL AS FOLLOWS: (USE WHEN APPLICABLE)
  - PROVIDE CLOSED RISERS WITH PAN TYPE TREADS AND PLATFORMS FOR FIELD CONCRETE FILL, WELD SUPPORTING BRACKETS TO STRINGERS & RISERS, AND TREADS TO BRACKETS.
  - TREADS: MINIMUM 14 GAGE STEEL PANS WITH SELF-FURRING METAL LATH WELDED IN PANS
  - RISERS: MINIMUM 14 GAGE STEEL
  - LANDINGS: MINIMUM 10 GAUGE STEEL PANS WITH ANGLE SUPPORTS, PROVIDE STEEL-FRAMED STAIRS SHOP PRIMED READY FOR FIELD PAINTED FINISH.
- GRATING SHALL CONFORM TO NAAMM MBG531 "METAL BAR GRATING MANUAL"
- STEEL TUBE HANDRAILS. (UNLESS DETAILED OTHERWISE)
  - GENERAL: FABRICATE HANDRAILS TO COMPLY WITH REQUIREMENTS INDICATED FOR DESIGN, DIMENSIONS, DETAILS, FINISH AND MEMBER SIZES, INCLUDING WALL THICKNESS OF TUBE, POST SPACINGS AND ANCHORAGE, BUT NOT LESS THAN THAT NEEDED TO WITHSTAND INDICATED LOADS.
  - CONFIGURATION: 1 1/2 INCH ROUND TOP AND BOTTOM RAILS, 1 1/2 INCH SQUARE POSTS, AND 1/2 INCH SQUARE PICKETS SPACED NOT MORE THAN 4 INCHES CLEAR.
  - INTERCONNECT MEMBERS BY BUTT-WELDING OR WELDING W/ INTERNAL CONNECTORS, AT FABRICATOR'S OPTION, UNLESS OTHERWISE INDICATED. AT TEE AND CROSS INTERSECTIONS, COPE ENDS OF INTERSECTING MEMBERS TO FIT CONTOUR OF TUBE TO WHICH END IS JOINED, AND WELD ALL AROUND. FORM CHANGES IN DIRECTION OF HANDRAILS AND RAILS AS FOLLOWS: BY RADIUS BENDS OF RADIUS INDICATED. FORM SIMPLE AND COMPOUND CURVES BY BENDING MEMBERS IN JIGS TO PRODUCE UNIFORM CURVATURE FOR EACH REPETITIVE CONFIGURATION REQUIRED; MAINTAIN CROSS SECTION OF MEMBER THROUGHOUT ENTIRE BEND WITHOUT BUCKLING, TWISTING, CRACKING OR OTHERWISE DEFORMING EXPOSED SURFACES OF COMPONENTS.
  - CLOSE EXPOSED ENDS OF HANDRAIL MEMBERS WITH PREFABRICATED END FITTINGS. PROVIDE WALL RETURNS AT ENDS OF WALL-MOUNTED HANDRAILS, UNLESS OTHERWISE INDICATED. CLOSE ENDS OF RETURNS, UNLESS CLEARANCE BETWEEN END OF RAIL AND WALL IS 1/4 INCH OR LESS
  - BRACKETS, FLANGES, FITTINGS AND ANCHORS: PROVIDE WALL BRACKETS, END CLOSURES, FLANGES, MISCELLANEOUS FITTINGS AND ANCHORS FOR INTERCONNECTING HANDRAILS AND FOR ATTACHING TO OTHER WORK. FURNISH INSERTS AND OTHER ANCHORAGE DEVICES FOR CONNECTING TO CONC OR MASONRY.

**MISCELLANEOUS CONSTRUCTION REQUIREMENTS:**

- MINIMUM EMBEDMENT LENGTH OF AN EPOXY DOWEL SHALL BE: #3 REBAR - 3" LG EMBEDMENT  
#4 REBAR - 4" LG  
#5 REBAR - 6" LG
- ALL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED (OR STAINLESS STEEL). OTHER STEEL MEMBERS SHALL HAVE ONE COAT OF SHOP PRIMER. TOUCH UP ALL DAMAGED GALVANIZING OR PAINT AFTER INSTALLATION IS COMPLETED. TOUCH UP FIELD WELDED AREAS AS SPECIFIED. STEEL MEMBERS RECEIVING TYPE 1 FIREPROOFING SHALL NOT HAVE ANY PRIMER.
- ALL SUPPORTED STRUCTURE IS REQUIRED TO BE FIREPROOFED. SEE SPECIFICATION AND ARCHITECTURAL DETAILS FOR THE APPROVED METHODS OF FIREPROOFING. SPECIALIZED FIREPROOF PAINTING IS REQUIRED AT CERTAIN LOCATIONS FOR CLEARANCE AND FOR AESTHETIC REASONS.
- MAXIMUM CORE THROUGH STRUCTURAL MEMBERS WITHOUT REINFORCING SHALL BE AS FOLLOWS:
  - STEEL - 1 1/2" DIA.
  - CONCRETE FLOOR (NO BEAMS OR RIBS) - 6" DIA.
  - CONCRETE BEAM / RIB - 2 1/2" DIA. (AT MID DEPTH)

**STEEL FABRICATOR'S NOTES:**

- WHERE BEAM SEATS ARE DETAILED FOR BEAM/COLUMN CONNECTION, THE SEAT REQUIREMENT IS MANDATORY. THE PLATE CONNECTION TO COLUMN AND NUMBER OF BOLTS MAY BE REDUCED IF THE STRENGTH DESIGN REQUIREMENTS PERMIT.
- THE SIZE OF MEMBERS WHERE INDICATED ARE MINIMUM SIZES TO BE PROVIDED. ENGINEER OF RECORD MAY REQUIRE LARGER THAN REQUIRED SIZES/THICKNESS FOR ADDITIONAL FACTOR OF SAFETY. FABRICATOR MAY MODIFY MEMBERS AS LONG AS THE SIZES PROPOSED ARE LARGER OR STRONGER THAN THOSE INDICATED ON THE DRAWINGS.

**STRUCTURAL LIGHTGAGE METAL FRAMING:**

- SPECIFICATIONS AND STANDARDS:
  - ALL STRUCTURAL PROPERTIES OF LIGHTGAGE METAL FRAMING SHALL BE COMPUTED IN ACCORDANCE WITH AISI "SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" AND SHALL BE PUBLISHED IN THE MANUFACTURER'S CATALOG.
  - WELDING SHALL BE PERFORMED ONLY BY QUALIFIED OPERATORS USING PROPER EQUIPMENT FOR THE PARTICULAR TYPE OF WORK REQUIRED.
  - AWS STANDARD WELDING SYMBOLS.
  - AWS D1.3, SPECIFICATION FOR WELDING SHEET STEEL IN STRUCTURES.
  - DESIGN ALL WALLS FOR APPLICABLE LIVE LOAD AND MINIMUM OF 10 PSF HORIZONTAL LOAD. DESIGN CEILING OR INDICATED LIVE LOAD (10 PSF MIN) & APPLICABLE DEAD LOAD
  - FOR THE PURPOSE OF REPRESENTATION, THE FRAMING MEMBERS INDICATED ON THE DRAWINGS ARE BASED UPON THE PRODUCTS OF "DIETRICH INDUSTRIES, INC." THE CONTRACTOR MAY SUBSTITUTE APPROVED EQUAL PRODUCTS AS APPLICABLE.
  - MAXIMUM DEFLECTION ALLOWED = L/240. MAXIMUM DEFLECTION W/ BRICK VENEER = L/600.
  - MINIMUM GAUGE OF STRUCTURAL MEMBERS SHALL BE 18 GA (43 MILS).
  - MEMBER SIZES & GAUGES SHOWN IN THESE DRAWINGS ARE THE MINIMUM ALLOWED. FABRICATOR'S ENGINEERING MAY RESULT IN LARGER & HEAVIER SIZES, BUT NOT LESS THAN THE MINIMUMS GIVEN HEREIN.
- MATERIALS:
  - NON-STRUCTURAL FRAMING MEMBERS LIGHTER THAN 18 GAGE : ASTM A446-76, GRADE B, Fy=33,000 PSI. ALL STRUCTURAL MEMBERS 18 GAGE AND HEAVIER: Fy=50,000 PSI MINIMUM.
  - ALL BRACING AND BRIDGING MATERIAL, Fy=33,000 PSI MIN
  - WELDING ELECTRODES: AWS A5.1, A5.5 OR A5.18 SERIES E60
- CONNECTIONS:
  - CUT ALL FRAMING COMPONENTS TO FIT SQUARELY AGAINST ABUTTING MEMBERS AND HOLD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
  - ALL PANELS SHALL BE SQUARE AND BRACED AGAINST RACKING
  - THE COMPONENTS SHALL BE WELDED TOGETHER IN PLACE. FURNISH WELDED CONNECTION FOR ALL THE STRUCTURAL MEMBERS
  - WIRE TYING OF STRUCTURAL FRAMING COMPONENTS IS NOT PERMITTED.
  - FURNISH AND INSTALL BRACING AND BRIDGING AS REQUIRED AND AS RECOMMENDED BY THE MANUFACTURER. THE MINIMUM REQUIREMENTS ARE AS FOLLOWS  
WALLS:  
1. MINIMUM TWO ROWS OF U CHANNEL BRIDGING.  
2. DIAGONAL STRAPPING BRACING AT EACH CORNER.  
CEILING:  
1. SOLID BRIDGING, TWO END BAYS TYPICAL  
2. STRAP BRIDGING ALL OTHER BAYS TOP AND BOTTOM.  
3. MINIMUM ROWS OF BRIDGING = 4.  
4. SOLID BLOCKING AND WEB STIFFENER AS REQUIRED.
  - ERECTION:
    - ATTACH BOTTOM TRACK SECURELY TO THE FLOOR & STUDS TO THE TRACK.
    - SEAT STUDS SQUARELY TO THE FLOOR AND OVERHEAD TRACK AND ATTACH SECURELY
    - SPLICES IN STRUCTURAL FRAMING MEMBERS ARE NOT PERMITTED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER
    - DO NOT APPLY AXIAL LOADS TO STUDS UNTIL ALL BRIDGING, CONNECTIONS AND ATTACHMENT OF COLLATERAL MATERIALS ARE COMPLETE.
  - BRACE ALL WALLS WITH ROOF AND FLOOR FRAMING AND/OR OTHER APPROVED BRACING TECHNIQUES.
  - SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO FABRICATION.  
NOTE: THE FORESTATED REQUIREMENTS ARE FOR STRUCTURAL LIGHTGAUGE METAL "C" STUDS AND "C" JOISTS ONLY. FOR THE NON-LOAD BEARING INTERIOR PARTITIONS, FURNISH 20 GAGE (33 MILS) STANDARD METAL STUD AND CONSTRUCT TO THE INDUSTRY STANDARD. BRACE WALL WITH FLOOR OR CEILING CONSTRUCTION WITH FLEXIBLE CONNECTION TO ENSURE THAT NO FLOOR OR CEILING LOADS ARE TRANSFERRED TO NON-BEARING WALLS. ADDITIONALLY, BRACE WALLS AFTER ALL DEAD LOADS ARE IN PLACE.
  - SEE DWG S002 FOR MTL STUD LINTEL SCHEDULE FOR MTL STUD WALLS.

**LINTEL SCHEDULE (LT GA METAL FRAMING)**

UNLESS OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS, PROVIDE FOLLOWING LINTELS FOR ALL 6" MTL STUD WALL OPENINGS:

OPENING	MEMBERS	BEARING
0'-3"	3-6" CEE JOIST	600S200-54 4" E.S.
0'-5"	3-8" CEE JOIST	800S200-54 4" E.S.
5'-6"	3-10" CEE JOIST	1000S200-54 4" E.S.
6'-8"	3-12" CEE JOIST	1200S200-54 4" E.S.
8'-11"	HSS 8x6x5/16 LSV	U.O.N. 6" E.S.
11'-16"	HSS 8x6x3/8 LSV	8" E.S.

- FOR 8" MTL STUD WALLS, PROVIDE AN ADD'L CEE JOIST MEMBER OF THE SAME SIZE.
- LINTELS SHALL BE WELDED TOGETHER PER DETAIL [S008](#).
- PROVIDE A MIN. OF DOUBLE STUDS UNDER LINTEL AT EACH JAMB FOR OPENINGS LESS THAN 8'-0"; AND HSS8x4x3/8 FOR OPENINGS 8'-0" OR GREATER WHERE OPNG IS NOT ADJACENT TO A STL COLUMN.
- PROVIDE LINTELS OVER ALL WALL OPENINGS. REFER TO THE ARCH. AND HVAC DWGS. FOR SIZE, LOCATION, AND NUMBER OF OPENINGS, U.O.N.
- ALL OPENINGS WITH BRICK VENEER SHALL HAVE CONT ANGLE L6x6x3/8 WELDED TO CEE JST LINTEL. SHAPE ANGLE TO CONFORM WITH THE PROFILE OF THE OPENING. PROVIDE MINIMUM 6" BEARING EACH SIDE.

**ABBREVIATIONS**

A.A.	ALL AROUND (WELD)	HD	HEADED (STUD)
A.B.	ANCHOR BOLT	HK	HOOK, HOOKED
ADD'L	ADDITIONAL	HOR	HORIZONTAL
ADJ	ADJACENT	HGT	HEIGHT
A.F.F.	ABOVE FINISHED FLOOR	INT	INTERIOR
ANC	ANCHOR BOLT	JBE	JOIST BEARING ELEVATION
ANG	ANGLE	JST	JOIST
AOR	ARCHITECT OF RECORD	JT	JOINT
ARCH	ARCHITECTURAL	LG	LONG
B/	BOTTOM OF	LL	LIVE LOAD
B.B.	BOND BEAM	LH	LONG LEG HORIZONTAL
B.BM	BOND BEAM	LLV	LONG LEG VERTICAL
B.C.	BOTTOM CHORD	LOC.	LOCATE
BETW	BETWEEN	LSH	LONG SIDE HORIZ
BM	BEAM	LSV	LONG SIDE VERTICAL
BOT	BOTTOM	LT WT	LIGHT WEIGHT
BRG	BRACING	LVL	LEVEL
BRG	BRACING	LW	LONG WAY
C/C	CENTER TO CENTER	MAX	MAXIMUM
CL	CENTERLINE	MAS	MASONRY
CLG	CEILING	MC	MASONRY COLUMN
CLR	CLEAR	MECH	MECHANICAL
CMU	CONCRETE MASONRY UNIT	MFR	MANUFACTURER/SUPPLIER
CNR	CORNER	MIN	MINIMUM
COL	COLUMN	MTL	METAL
COMP	COMPOSITE	N.S.	NEAR SIDE
CONC	CONCRETE	N/S	NORTH/SOUTH
CONN	CONNECTION	N.T.S.	NOT TO SCALE
CONT	CONTINUOUS	O.C.	ON CENTER
COORD	COORDINATE	O.H.	OPPOSITE HAND (OPP)
CTR	CENTER	OPNG	OPENING
CRS	COURSING	PL	PLATE
DBL	DOUBLE	PNL	PANEL
DEMO	DEMOLISH	PT	POINT
DET	DETAIL	REINF	REINFORCING
DIA	DIAMETER	REQ'D	REQUIRED
DIM	DIMENSION	SCHED.	SCHEDULE
DL	DEAD LOAD	SECT	SECTION
DN	DOWN	SIM	SIMILAR
DP	DEEP	S.O.G.	SLAB ON GRADE
DWG	DRAWING	SPC	SPACING
DWL	DOWEL	SPEC	SPECIFICATIONS
EA	EACH	S.S.	STAINLESS STEEL
E.E.	EACH END	STIFF	STIFFENER
E.F.	EACH FACE	STL	STEEL
EL	ELEVATION	STR	STAIR
EMBED	EMBEDMENT	S.W.	SHORT WAY
E.S.	EACH SIDE	SYM	SYMMETRICAL
EX	EXISTING	T/	TOP OF (T/STL, T/CONC)
EXSTG	EXISTING	T.C.	TOP CHORD
EXP	EXPANSION	TCX	TOP CHORD EXTENSION
EXT	EXTERIOR	THK	THICK, THICKNESS
E/W	EASTWEST	TKS	THICKENED SLAB
E.W.	EACH WAY	TOJ	TOP OF JOIST
FDN	FOUNDATION	TR	TRENCH (FTG)
F.F.	FINISH FLOOR	TYP	TYPICAL
FLR	FLOOR	U.O.N.	UNLESS OTHERWISE NOTED
FRMG	FRAMING	V.	VERTICAL (VERT)
F.S.	FAR SIDE	V.B.	VAPOR BARRIER
FTG	FOOTING	W.	WIDE
F.W.	FIELD WELD	W/	WITH
GA	GAGE	WDW	WINDOW
GALV	GALVANIZED	WF	WIDE FLANGE (BM)
G.C.	GENERAL CONTRACTOR	WF##	WALL FOOTING SIZE
H.	HIGH, HORIZONTAL	W.W.F	WELDED WIRE FABRIC

RFI 75  
Cable Railing Size Correction

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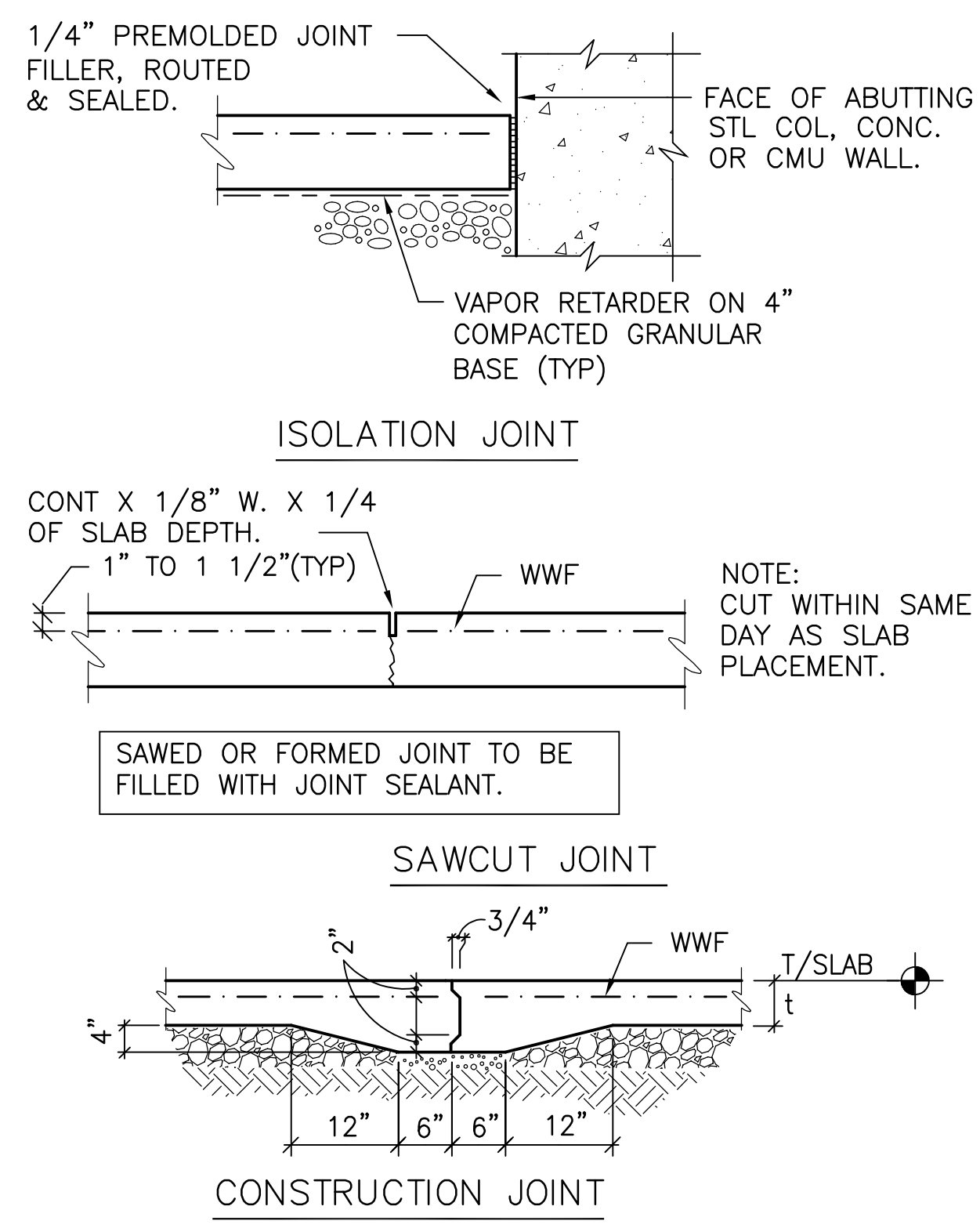
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DRAWING TITLE:

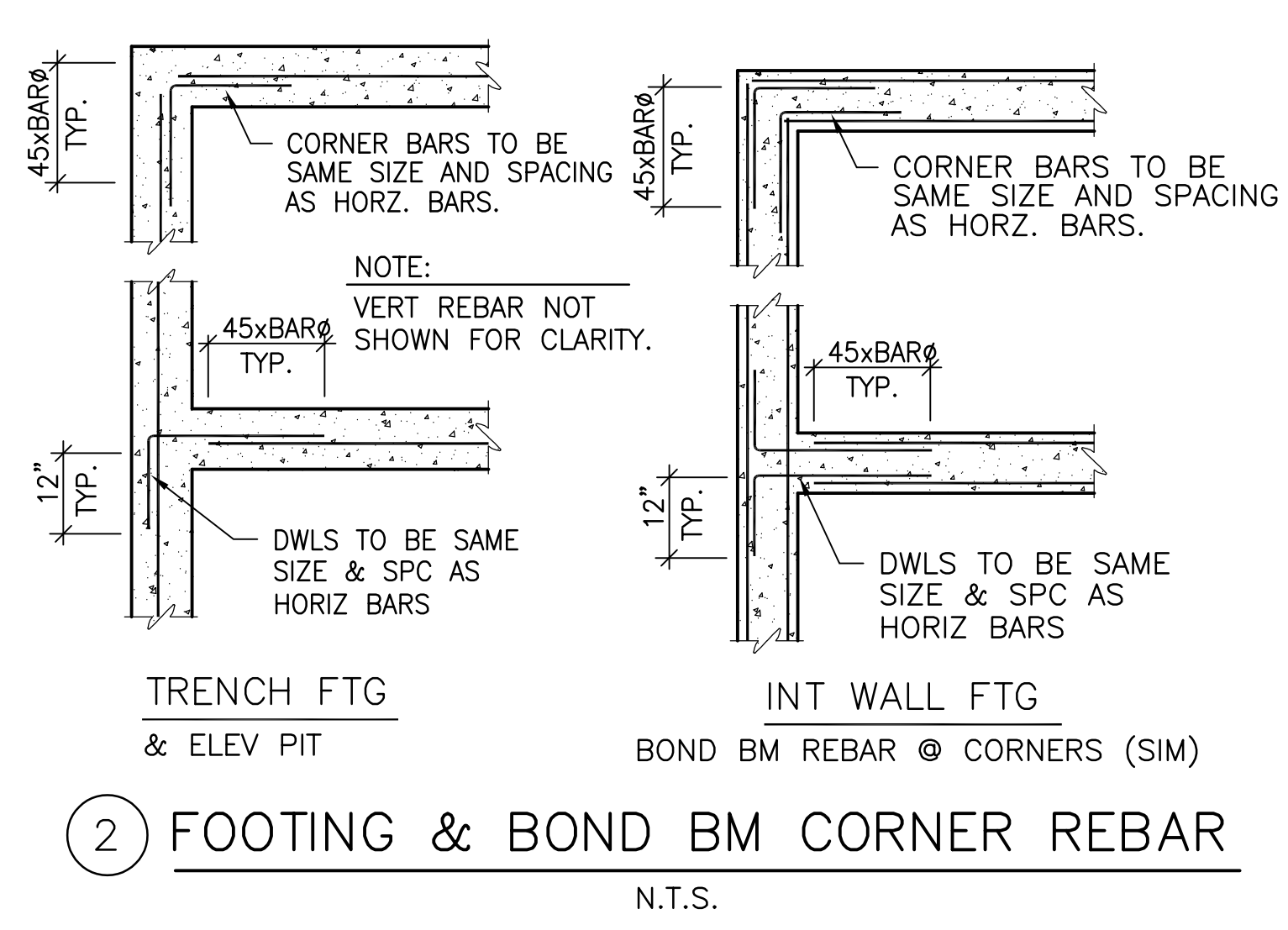
**STRUCTURAL NOTES**

2/21/2020  
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**S002**  
PERMIT SET

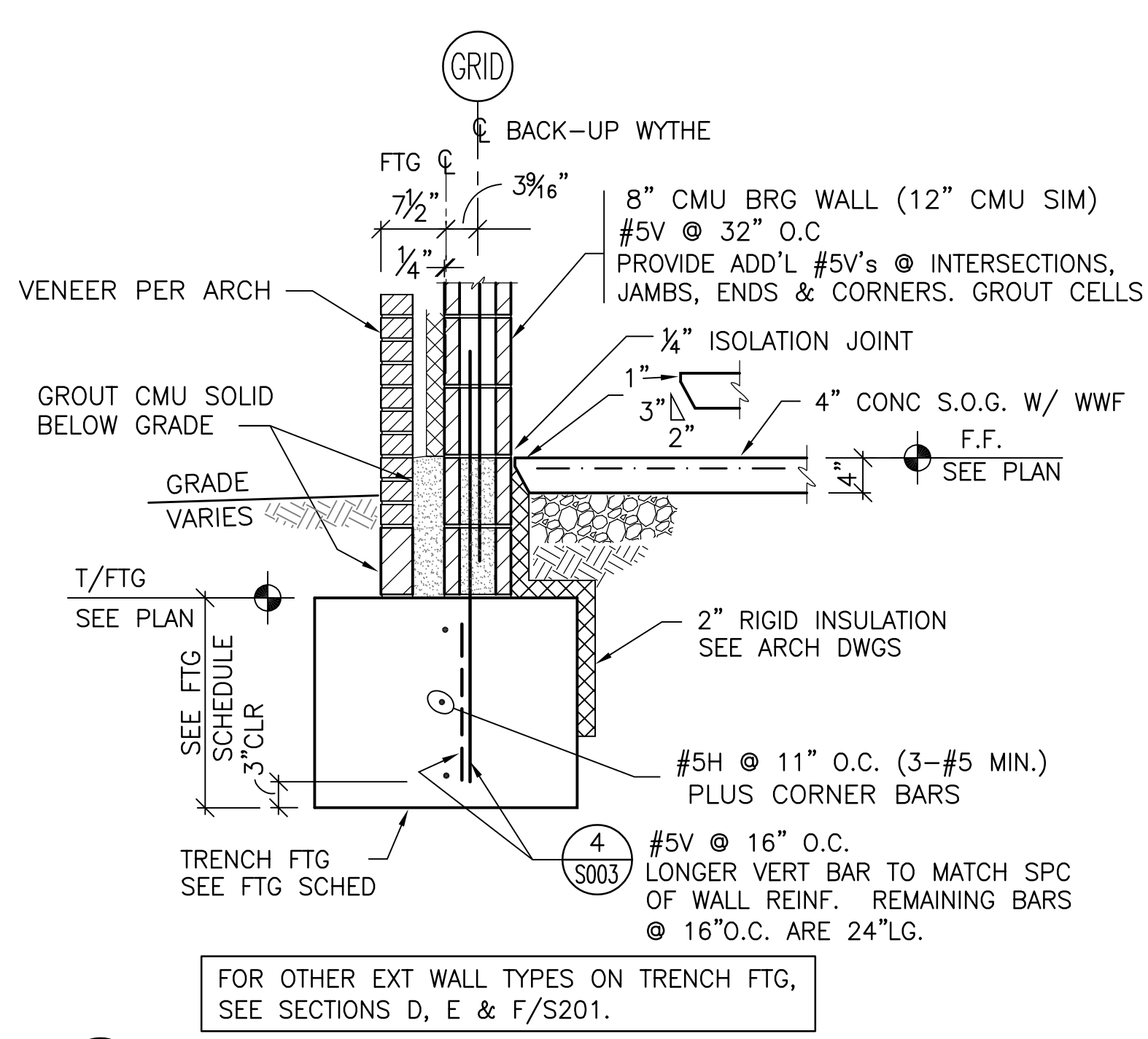




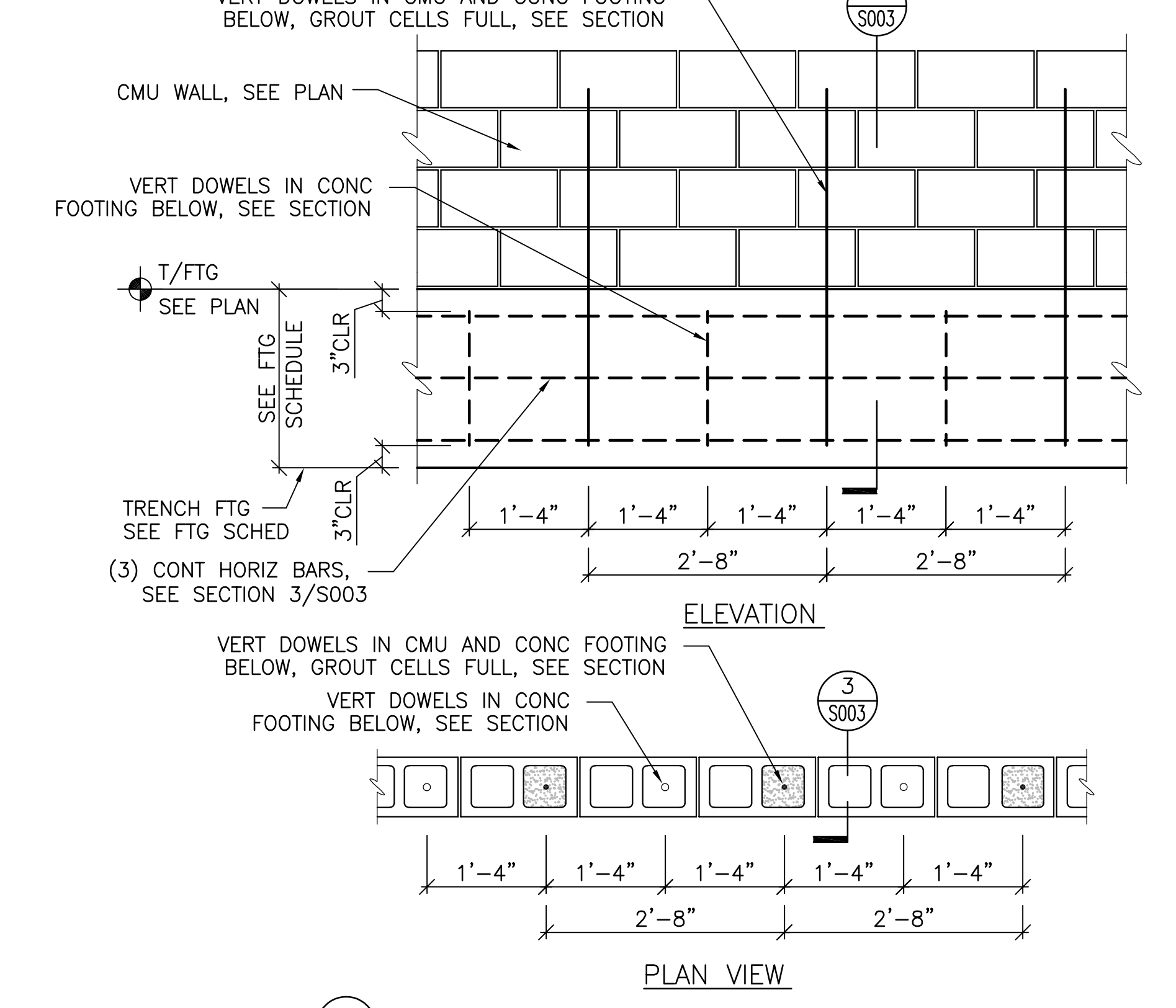
① TYP CONC JT DETAILS  
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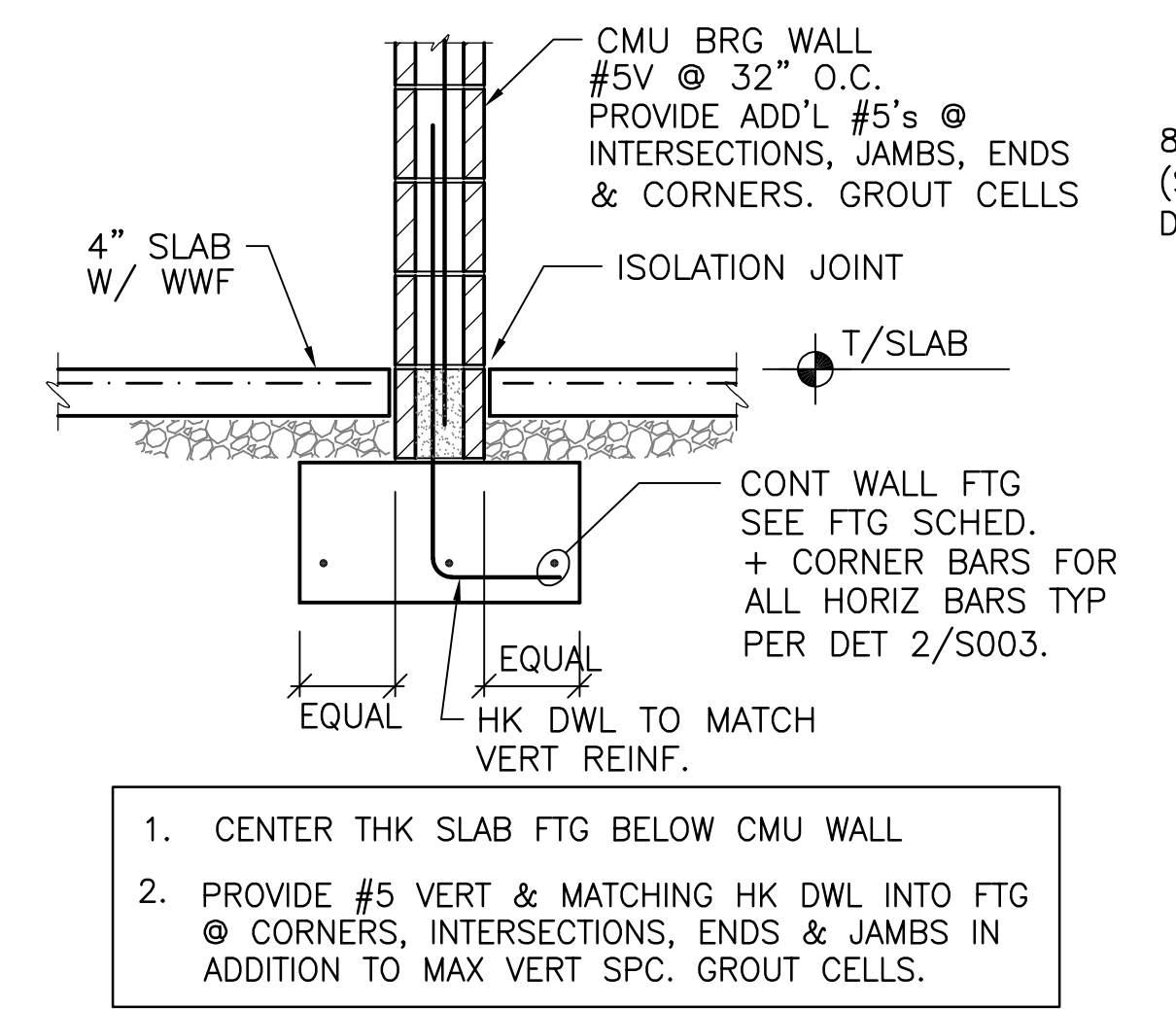
② FOOTING & BOND BM CORNER REBAR  
N.T.S.



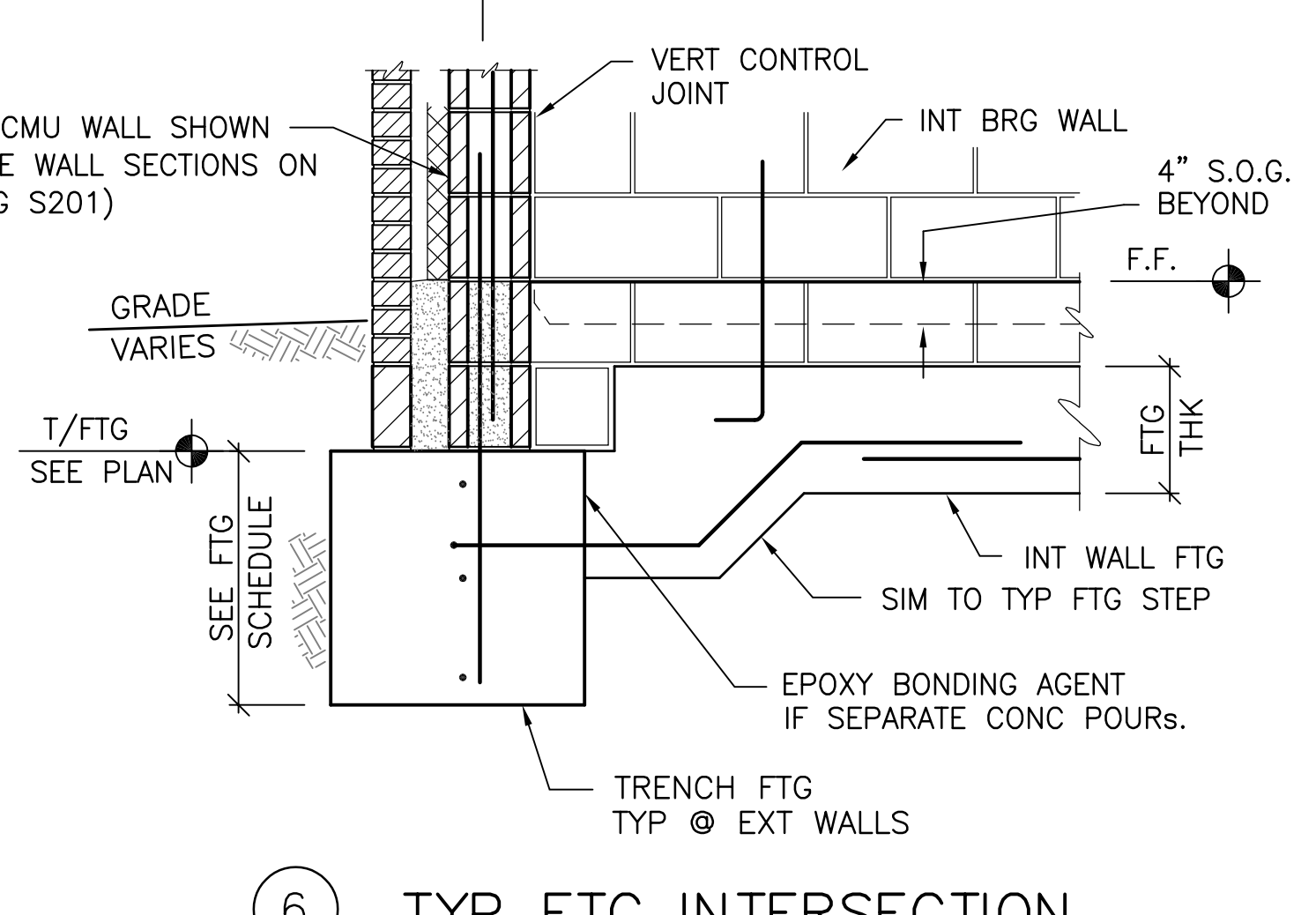
③ TYP EXT WALL ON TRENCH FTG  
SCALE: 3/4" = 1'-0"



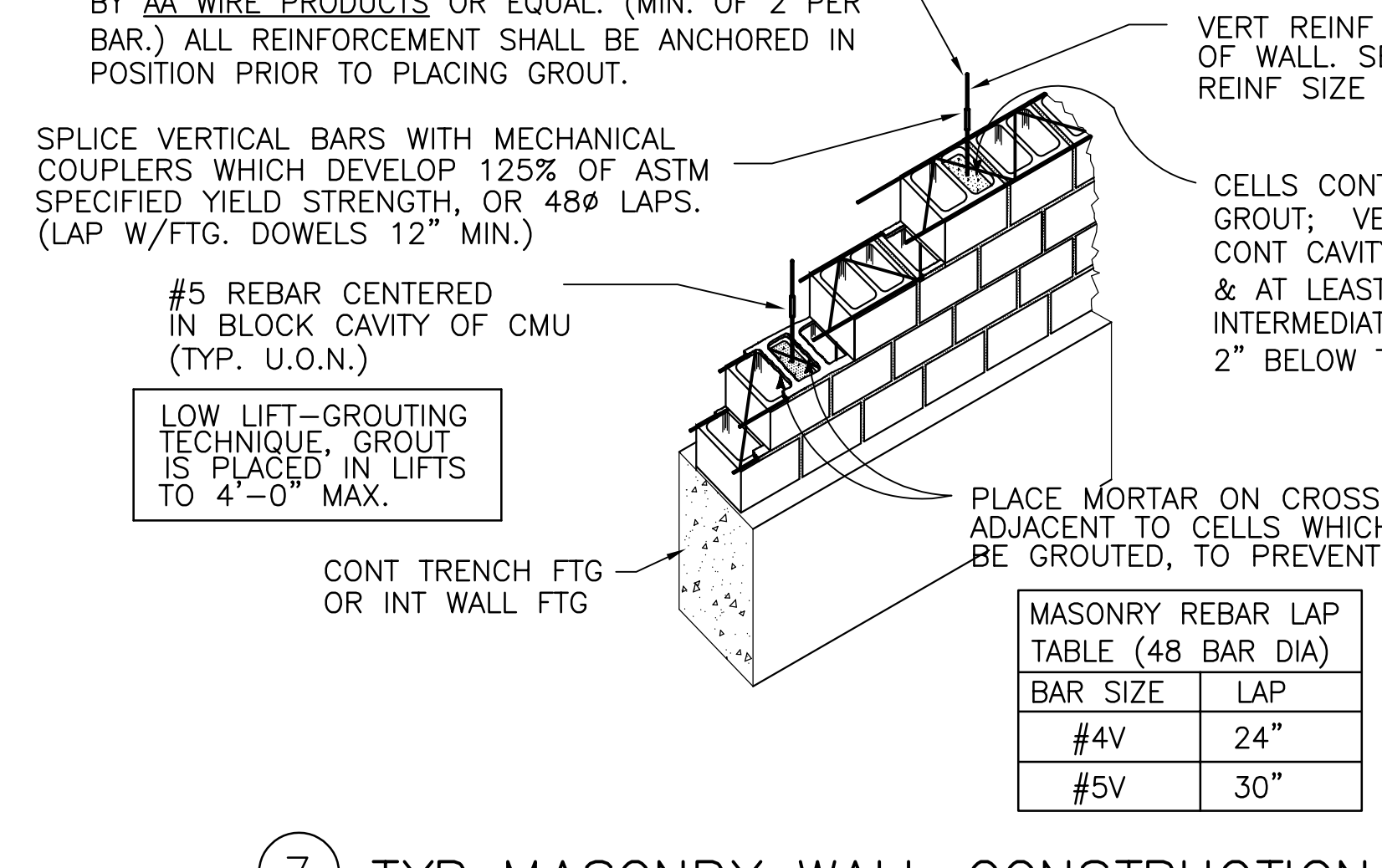
④ TYP EXT WALL ON TRENCH FTG  
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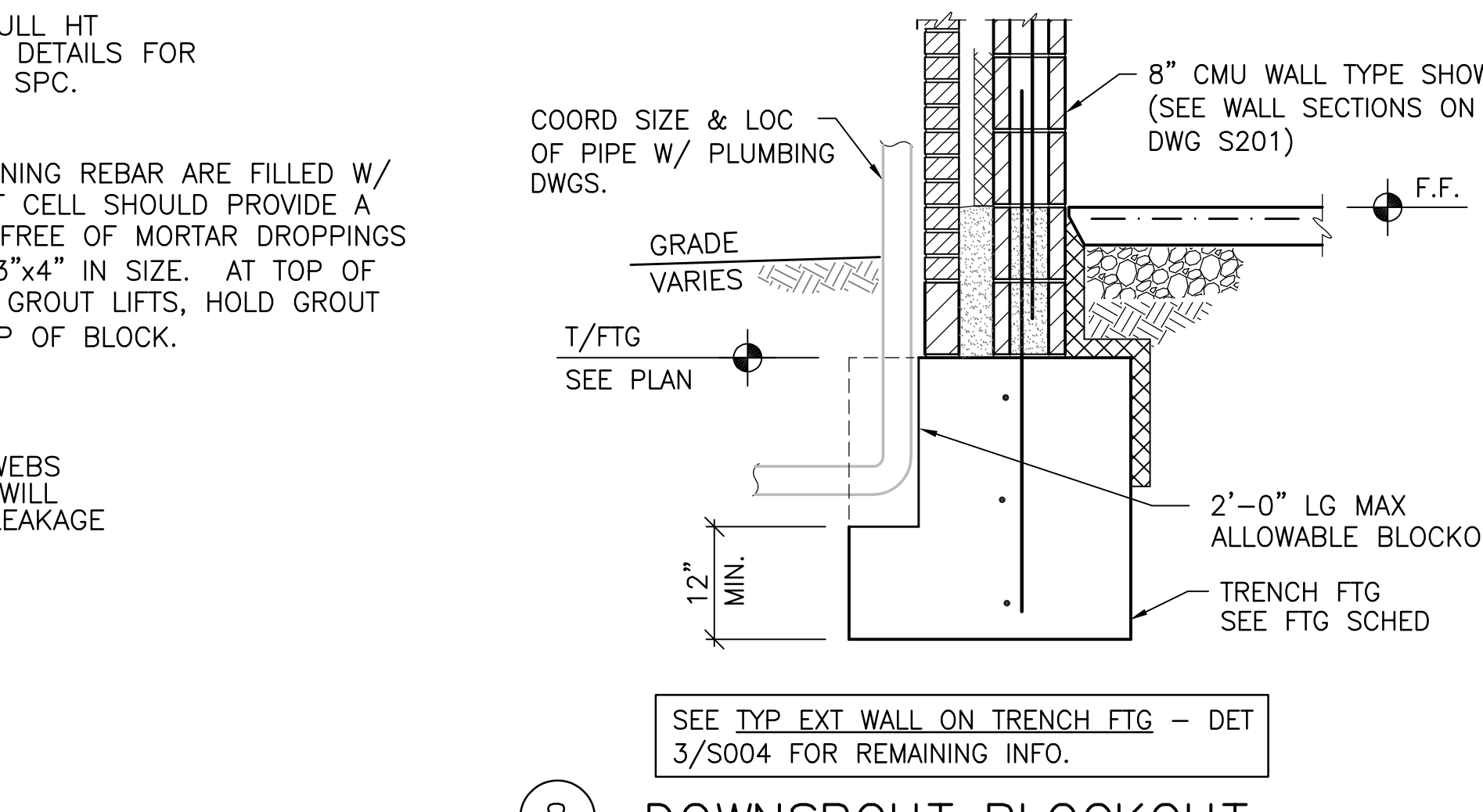
⑤ TYP INT CMU BRG WALL  
SCALE: 3/4" = 1'-0"



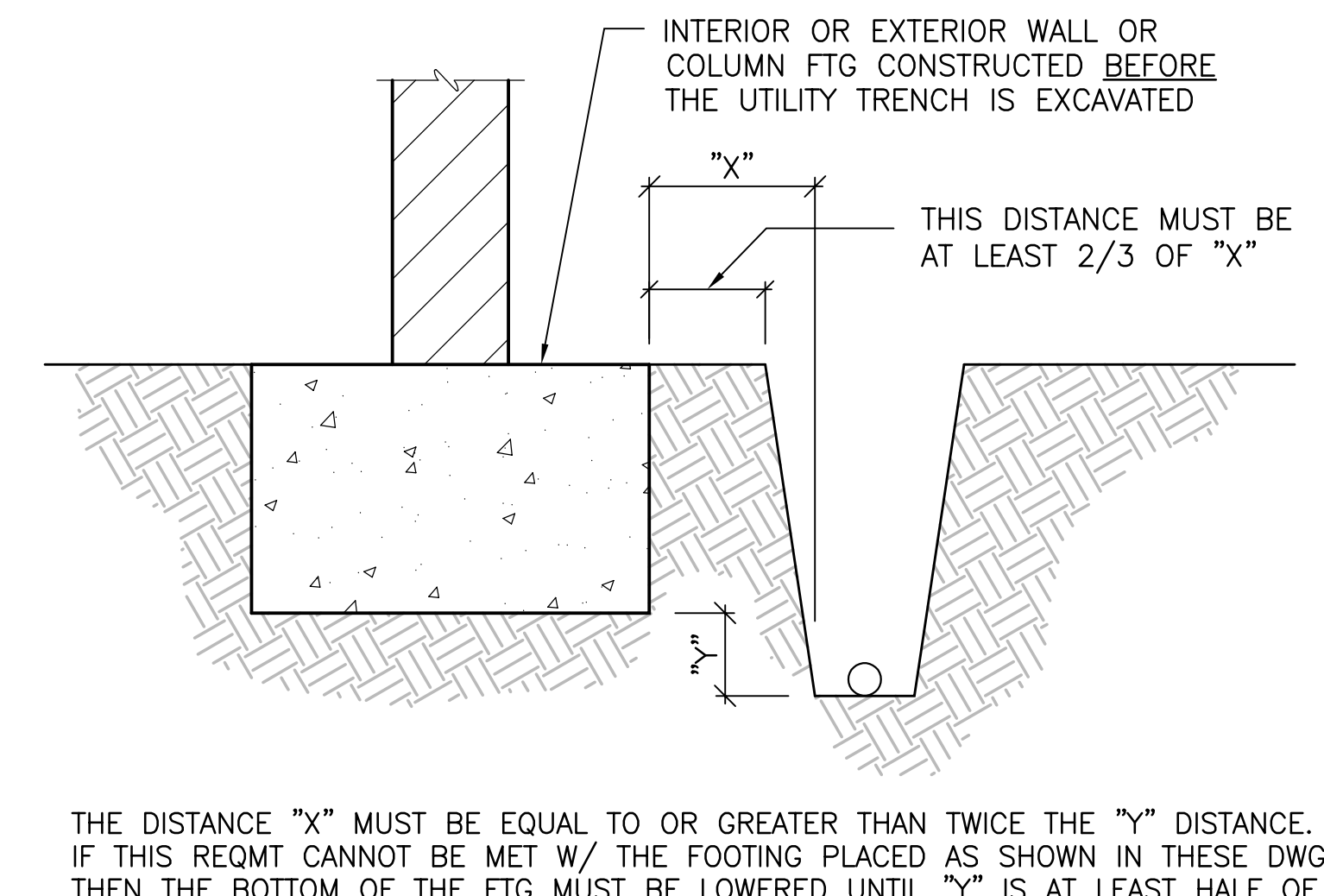
⑥ TYP FTG INTERSECTION  
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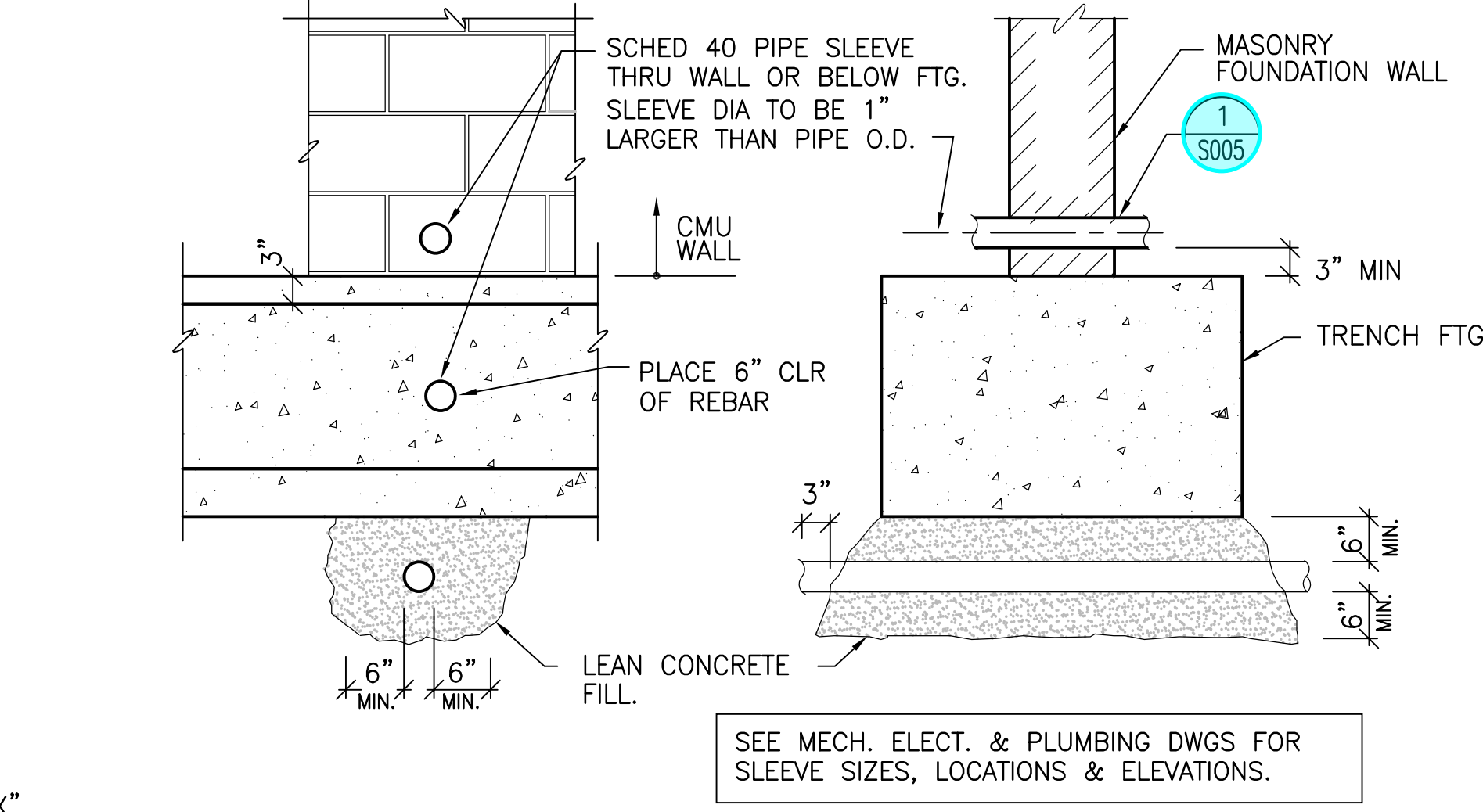
⑦ TYP MASONRY WALL CONSTRUCTION  
N.T.S.



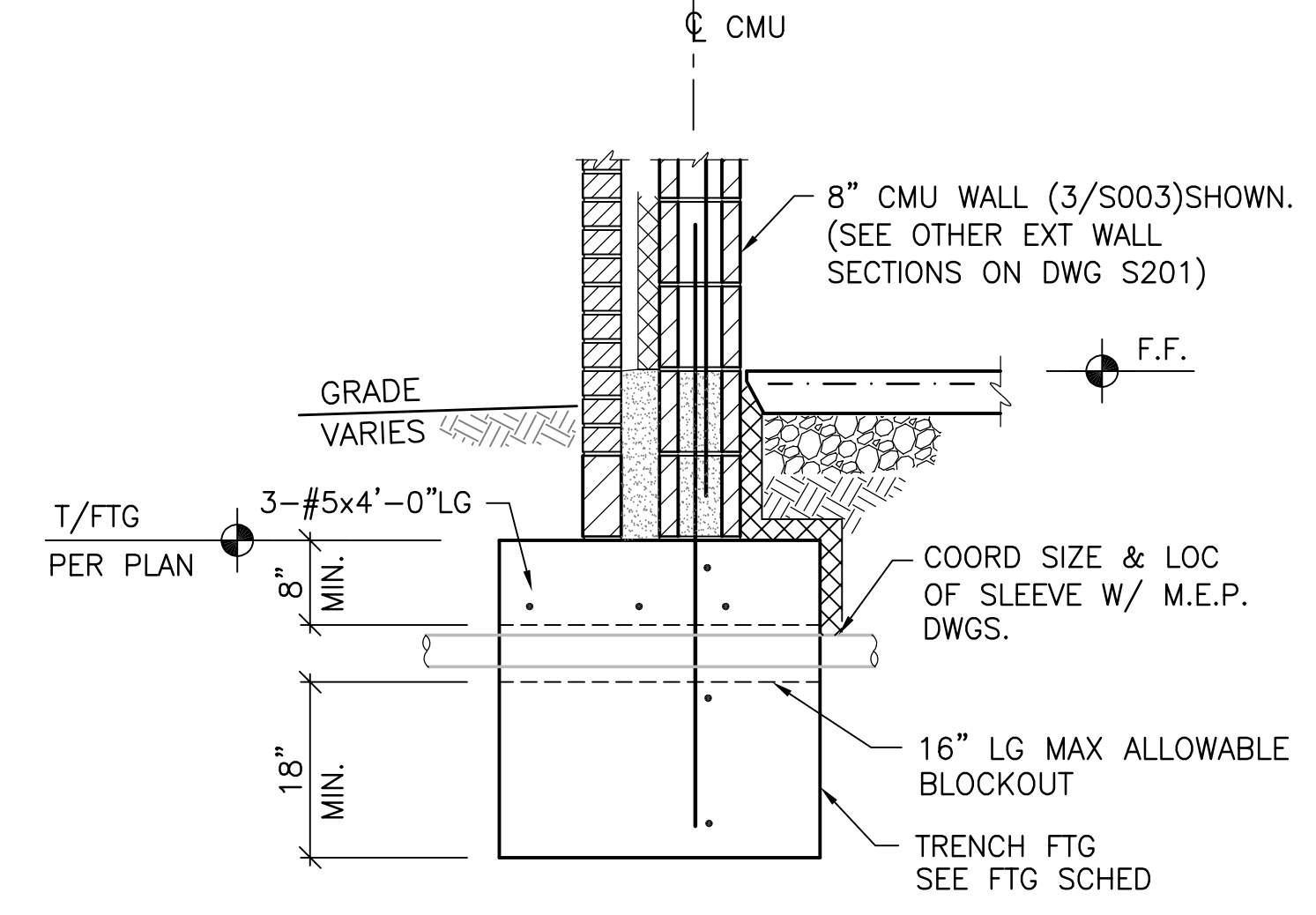
⑧ DOWNSPOUT BLOCKOUT IN TRENCH FTG  
SCALE: 3/4" = 1'-0"



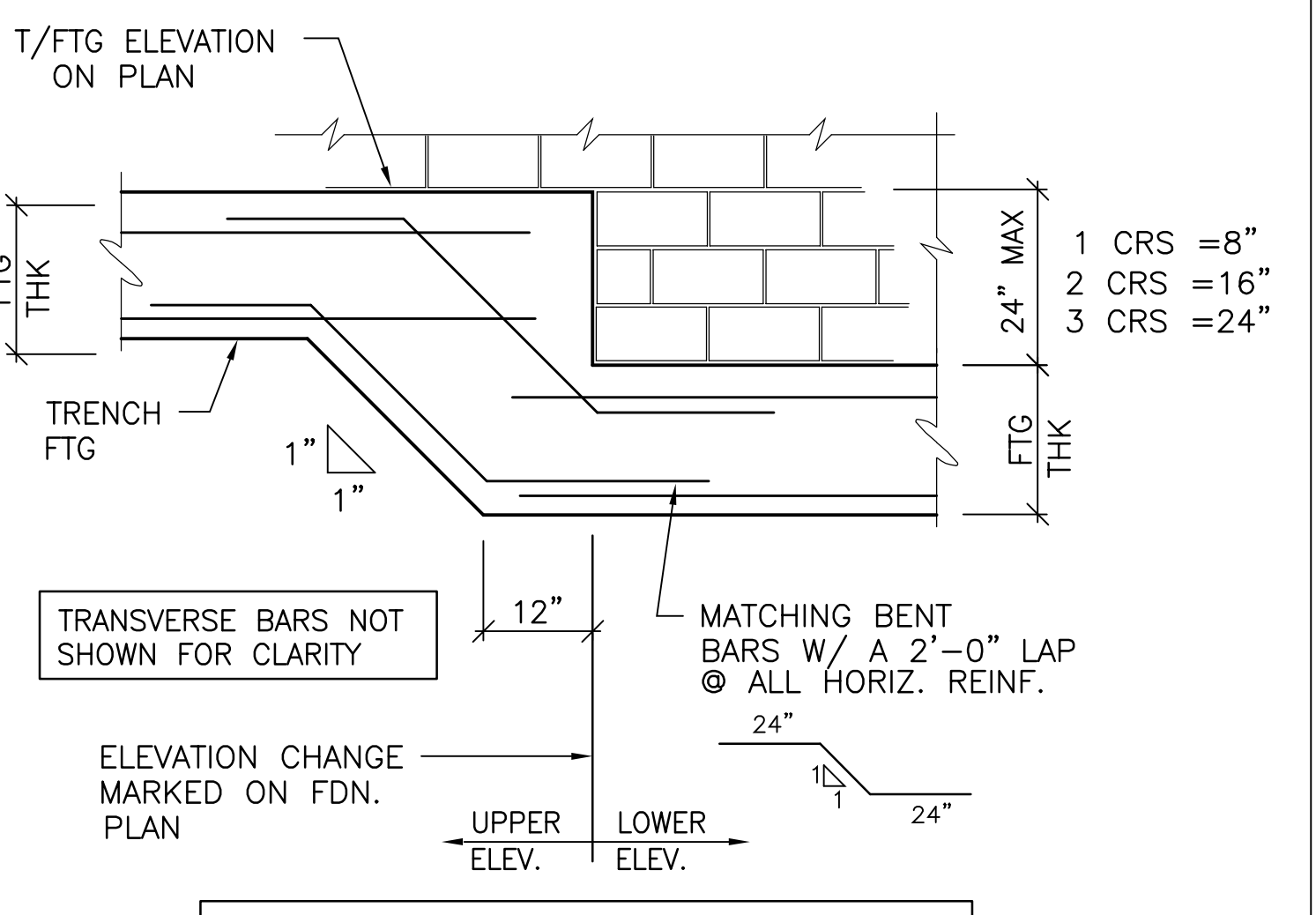
⑨ TYP UTILITY TRENCH REQMTS @ ALL FTGS  
SCALE: 3/4" = 1'-0"



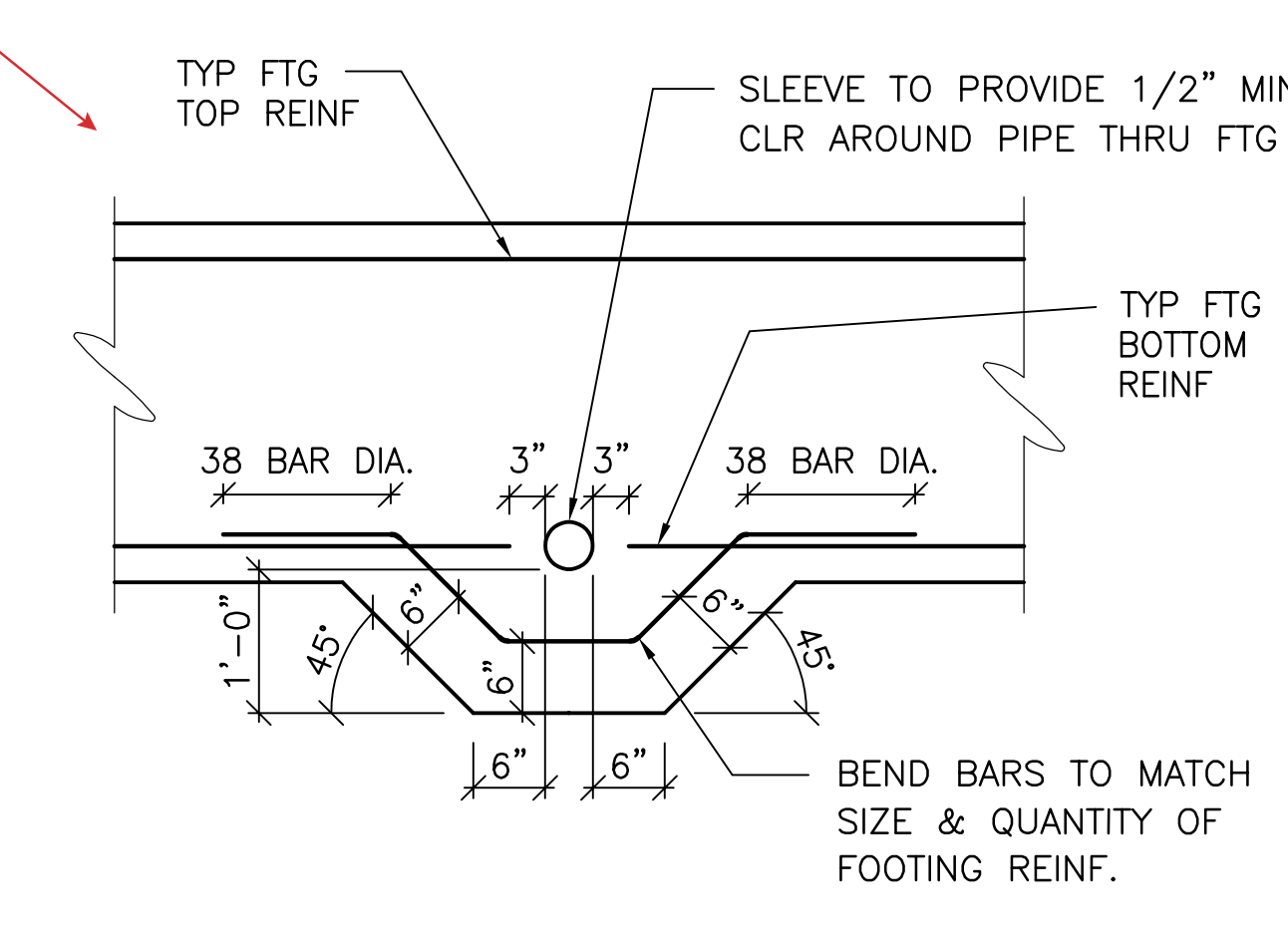
⑩ TYP UTILITY LINE ABOVE & BELOW FTG  
N.T.S.



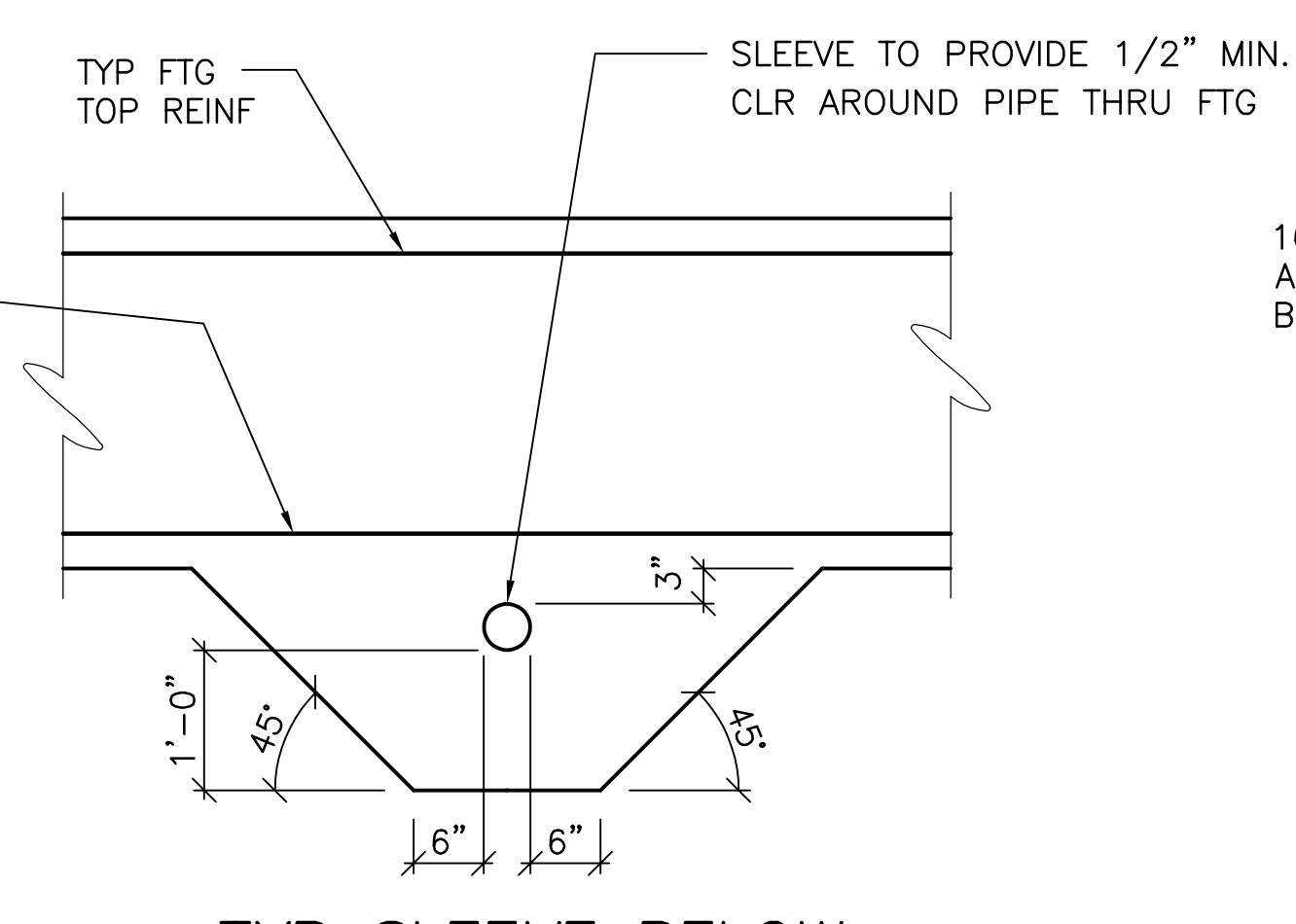
⑪ TYP SLEEVE THRU TRENCH FTG  
SCALE: 3/4" = 1'-0"



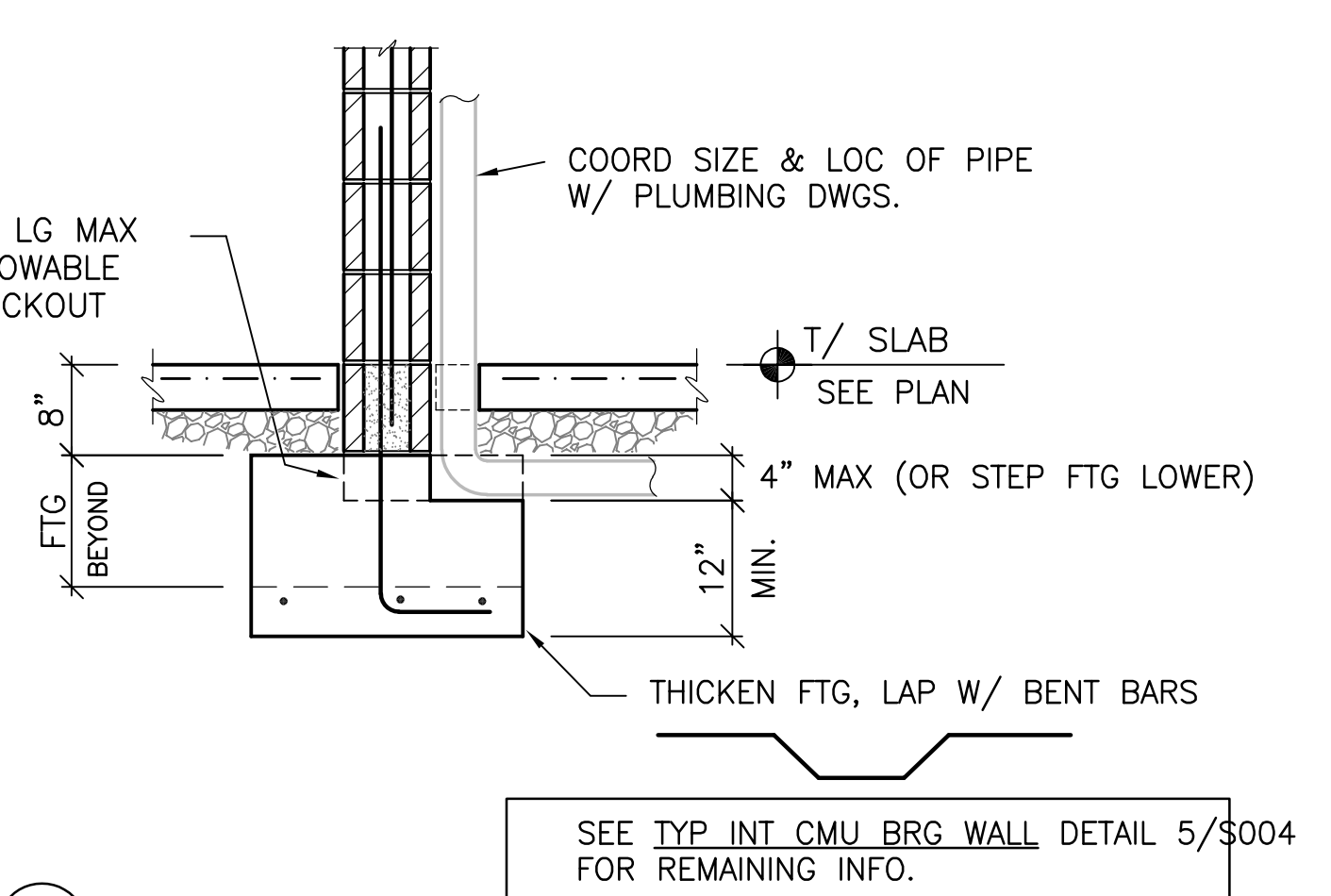
⑫ FTG STEP FOR FTGS  
N.T.S.



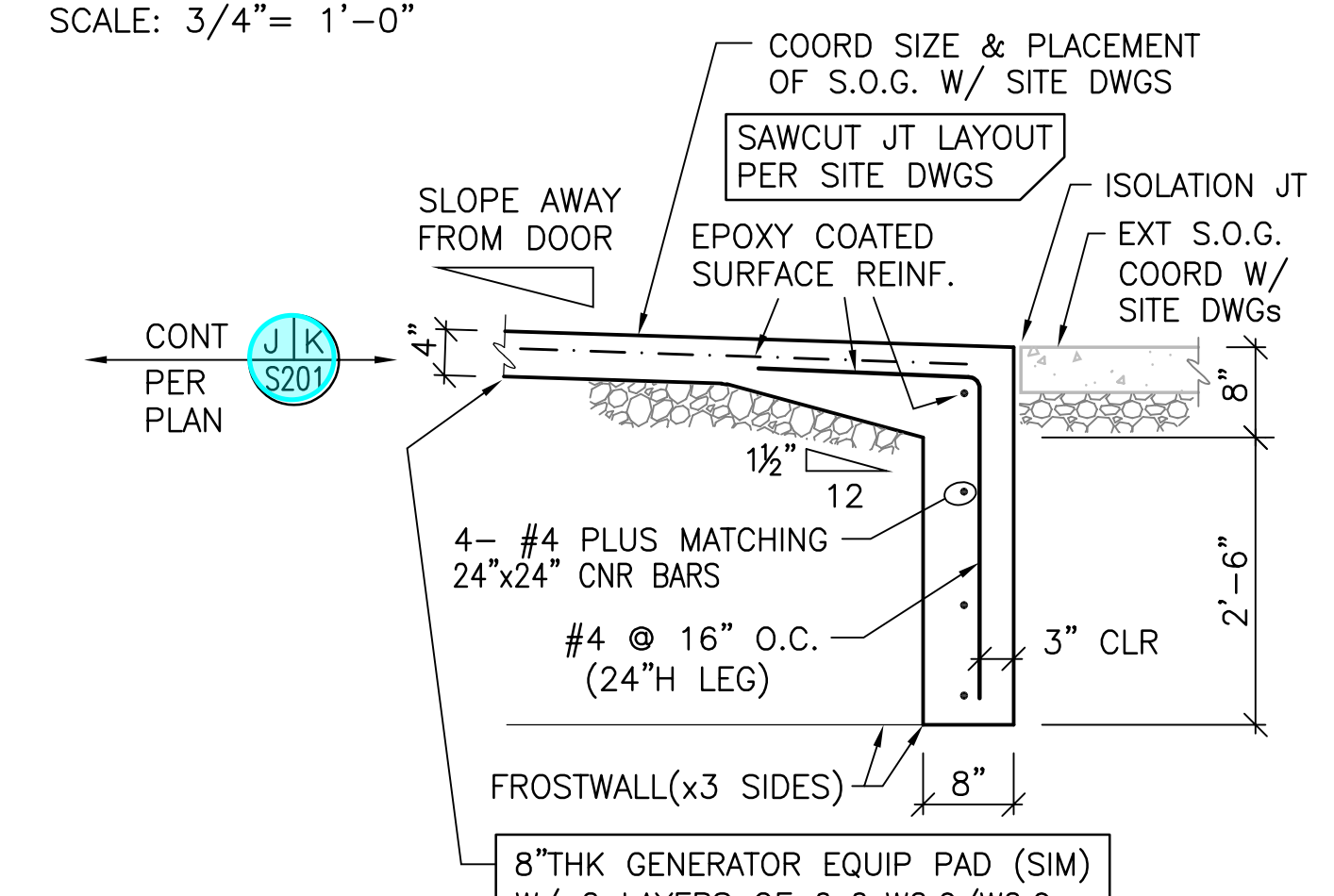
⑬ TYP SLEEVE THRU REINF OF FOOTING  
N.T.S.



⑭ TYP SLEEVE BELOW REINF OF FOOTING  
N.T.S.



⑮ PLUMBING BLOCKOUT IN INTERIOR FTG  
SCALE: 3/4" = 1'-0"



⑯ EXT CONC PAD FROSTWALL  
SCALE: 3/4" = 1'-0"

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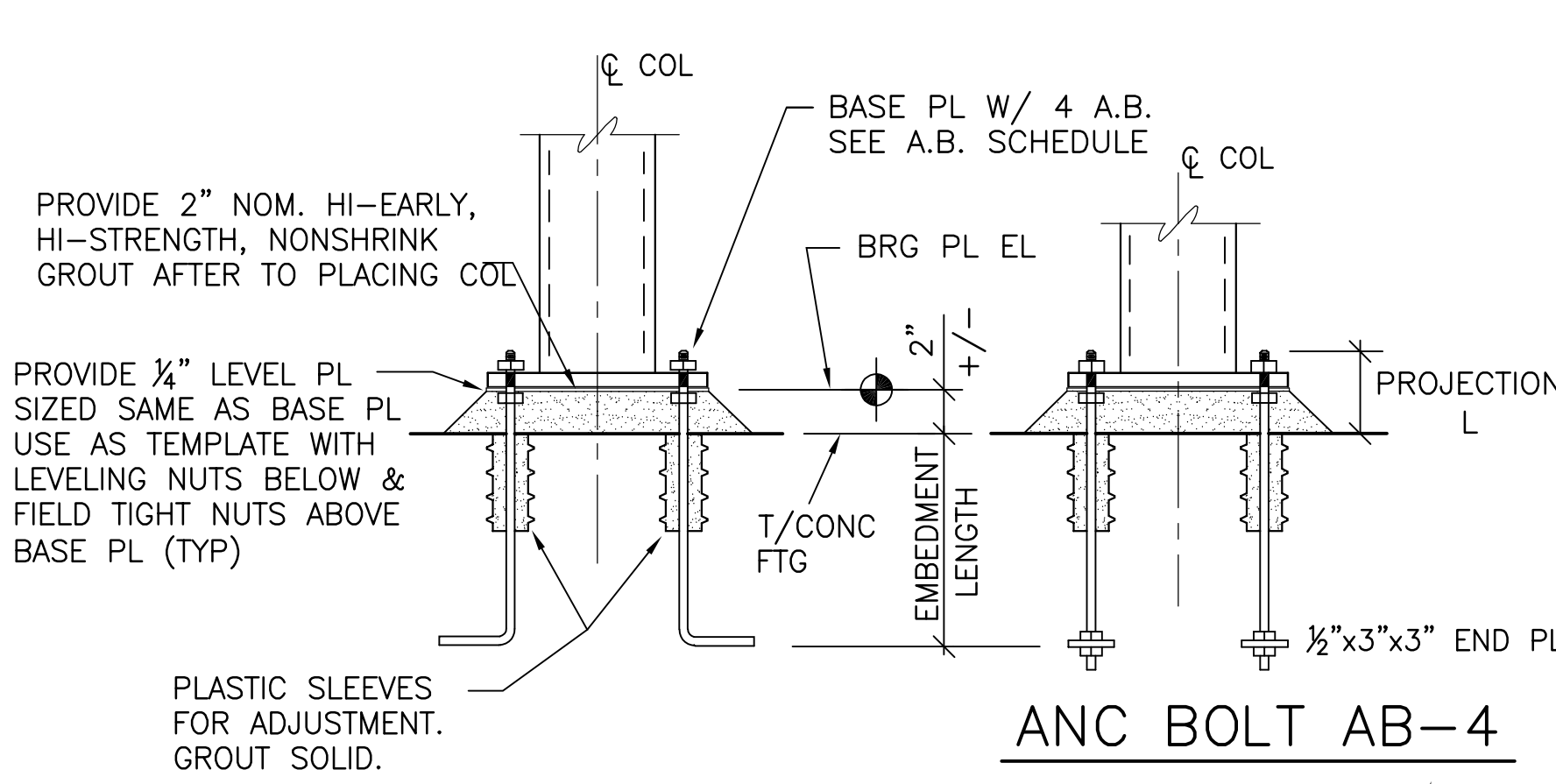
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**TYPICAL FOUNDATION SECTIONS & DETAILS**

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RFI 21





1 TYP COL BASE PL & A.B.'s  
N.T.S.

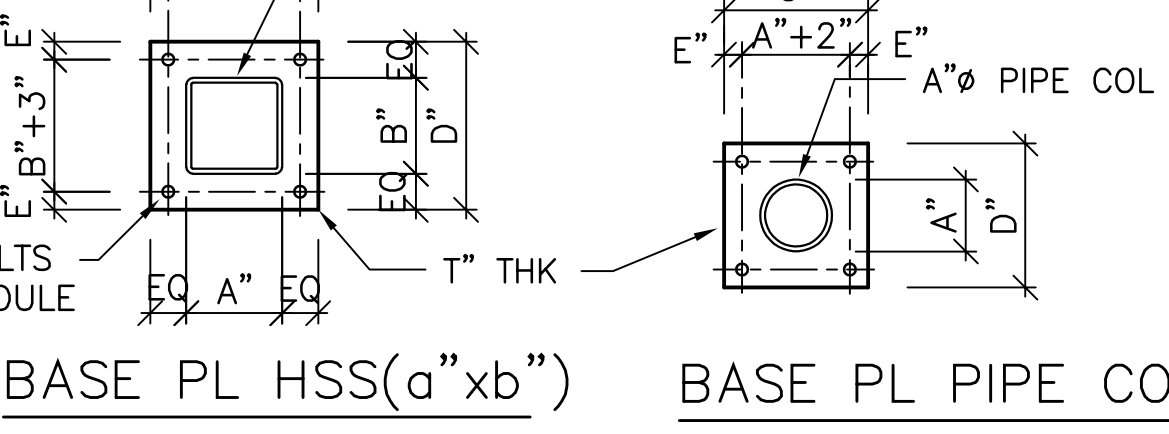
ANCHOR BOLT & BASE PL SCHEDULE

ANCHOR BOLT TYPE	ANCHOR BOLT				REMARK
	#	Ø	PROJ. L	EMBED L	
AB-1	4	3/4"	5"	9"	
AB-2	4	3/4"	5"	12"	
AB-3	4	1"	6"	12"	
AB-4	4	1"	6"	15"	HVY DUTY WASHER

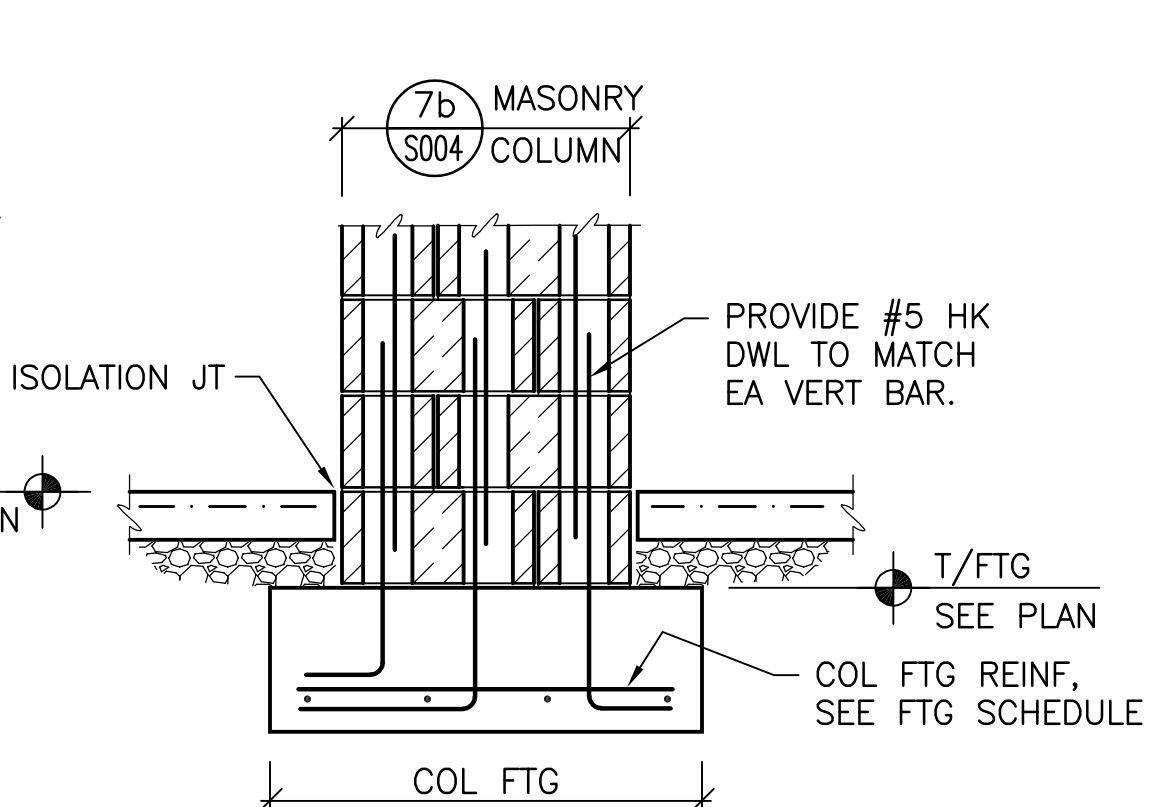
NOTE :  
OVERALL ANCHOR BOLT LENGTH IS APPROX. THE SUM OF THE PROJECTION, EMBEDMENT & HOOK LENGTHS.

COLUMN SIZE/SHAPE	BASE PLATE DIMS						ANCHOR BOLT
	A"	B"	C"	D"	E"	F"	
HSS 3 1/2 x 3 1/2	3 1/2"	3 1/2"	9 1/2"	9 1/2"	1 1/2"	3/4"	3/4"Ø EPOXY ANCHORS
HSS 4x4	4"	4"	10"	10"	1 1/2"	1"	
HSS 6x4x3/8 EXT	6"	4"	10"	10"	SEE SECTION B/S008		
HSS 6x4x3/8 INT	6"	4"	12"	10"	1 1/2"	7/8"	AB-2
HSS 6x6 INT	6"	6"	12"	12"	1 1/2"	3/4"	AB-1
HSS 6x6 EXT	6"	6"	12"	12"	1 1/2"	3/4"	AB-2
HSS 7x7 INT	7"	7"	13"	13"	1 1/2"	3/4"	AB-2
HSS 7x7 EXT	7"	7"	14"	14"	2"	1"	AB-4
HSS 8x8 INT	8"	8"	15"	15"	2"	1"	AB-3
HSS 8x6x3/8 INT	8"	6"	14"	12"	1 1/2"	7/8"	AB-2
HSS 8x6x1/2 INT	8"	6"	15"	13"	2"	1"	AB-3
HSS 8x6 EXT	8"	6"	15"	13"	2"	1"	AB-4
HSS 12x6	8"	6"	15"	13"	2"	1"	AB-4
HSS 6"Ø	6"	11"	11"	11"	1 1/2"	3/4"	AB-2
HSS 8"Ø	8"	14"	14"	14"	2"	1"	AB-3

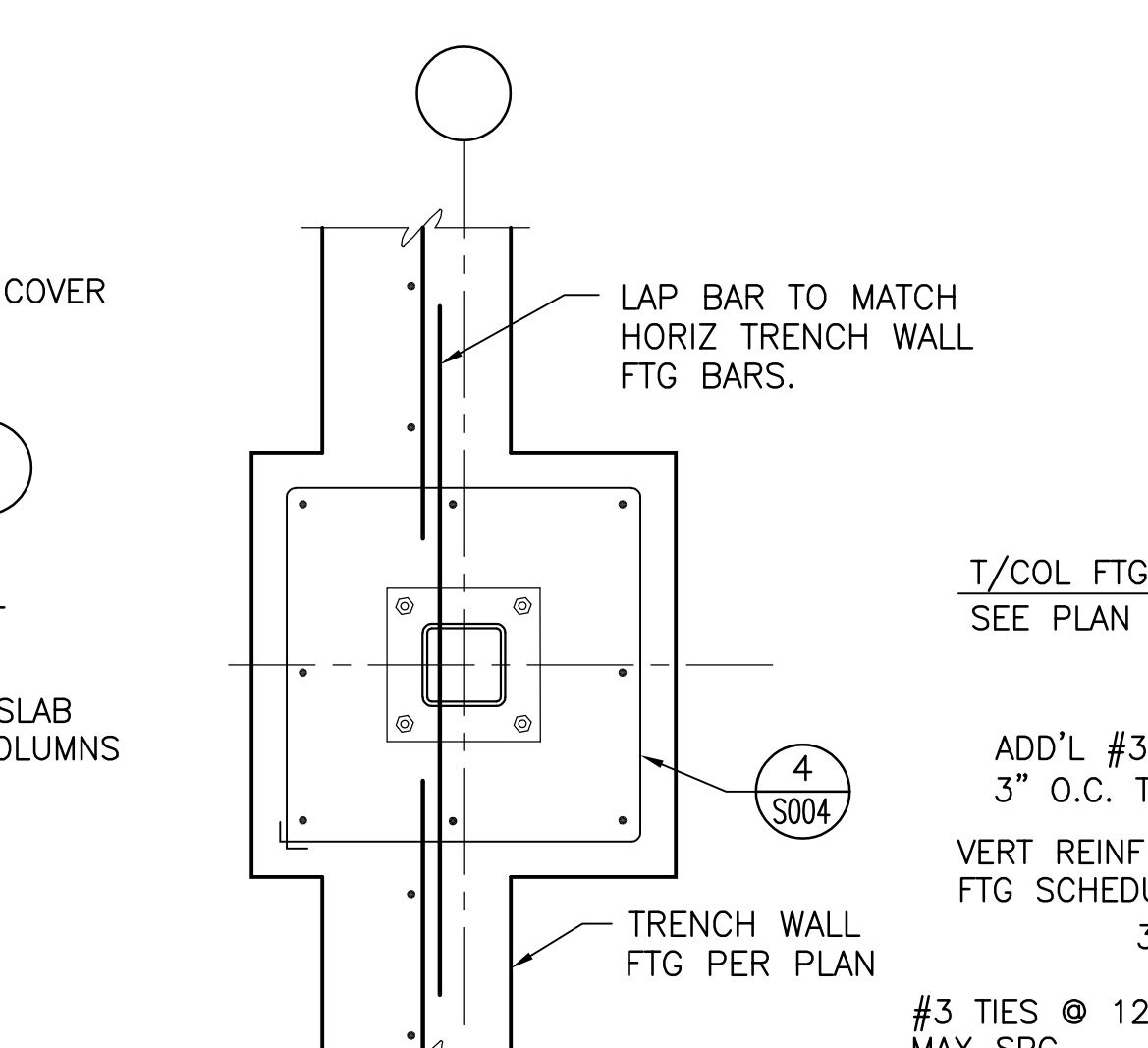
NOTE 1) COORD HOLE DIA W/ A.B. SIZE LISTED IN A.B. SCHEDULE ON DWG S004  
2) 'INT' ARE INTERIOR COL ON SPREAD FTGS 'EXT' ARE COLUMNS AT THE EXT WALL ON FTG TYPE (F##A). SEE SECTION G & H/S201



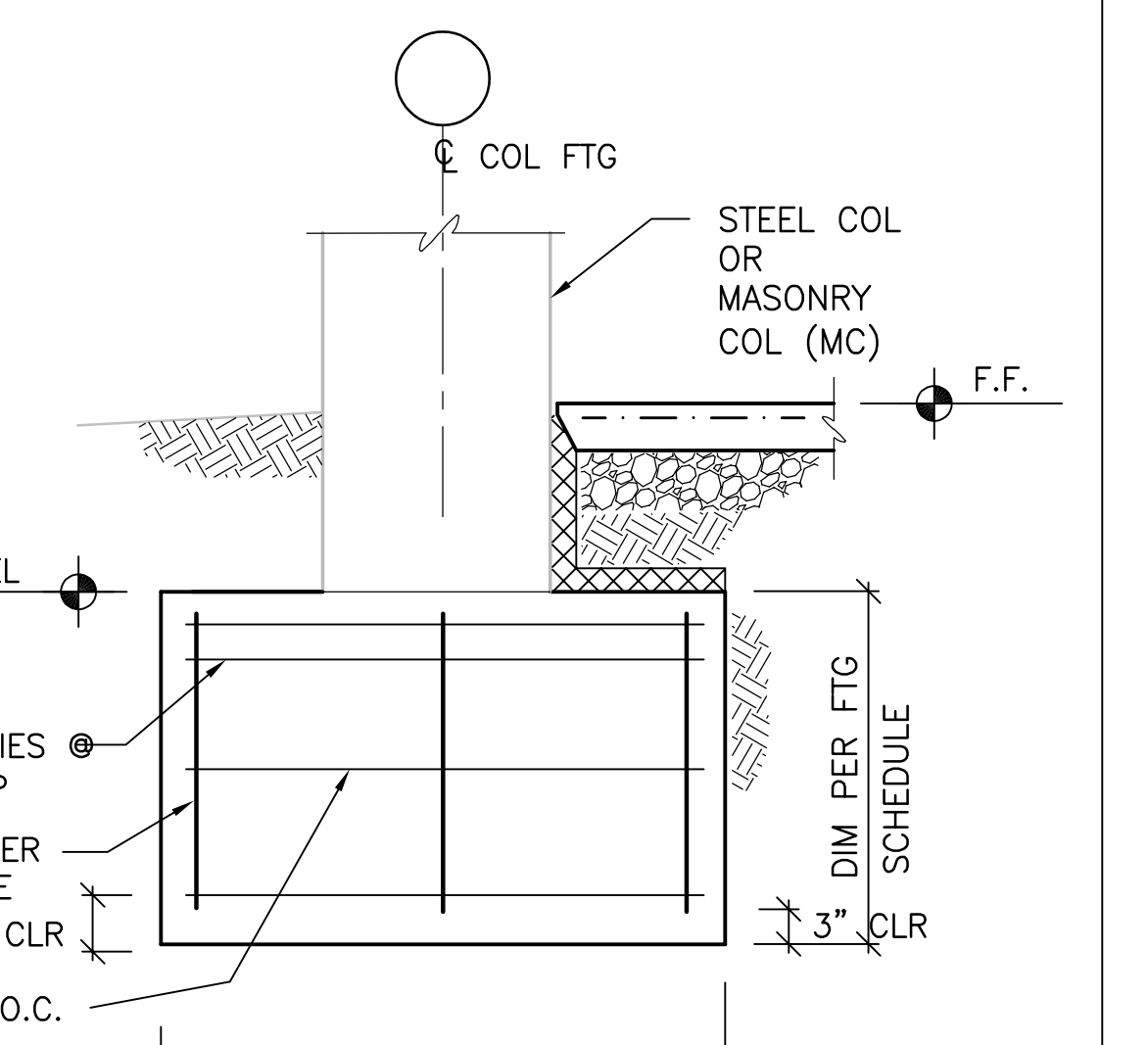
2 TYP INT COL ON SPREAD FTG  
SCALE: 3/4" = 1'-0"



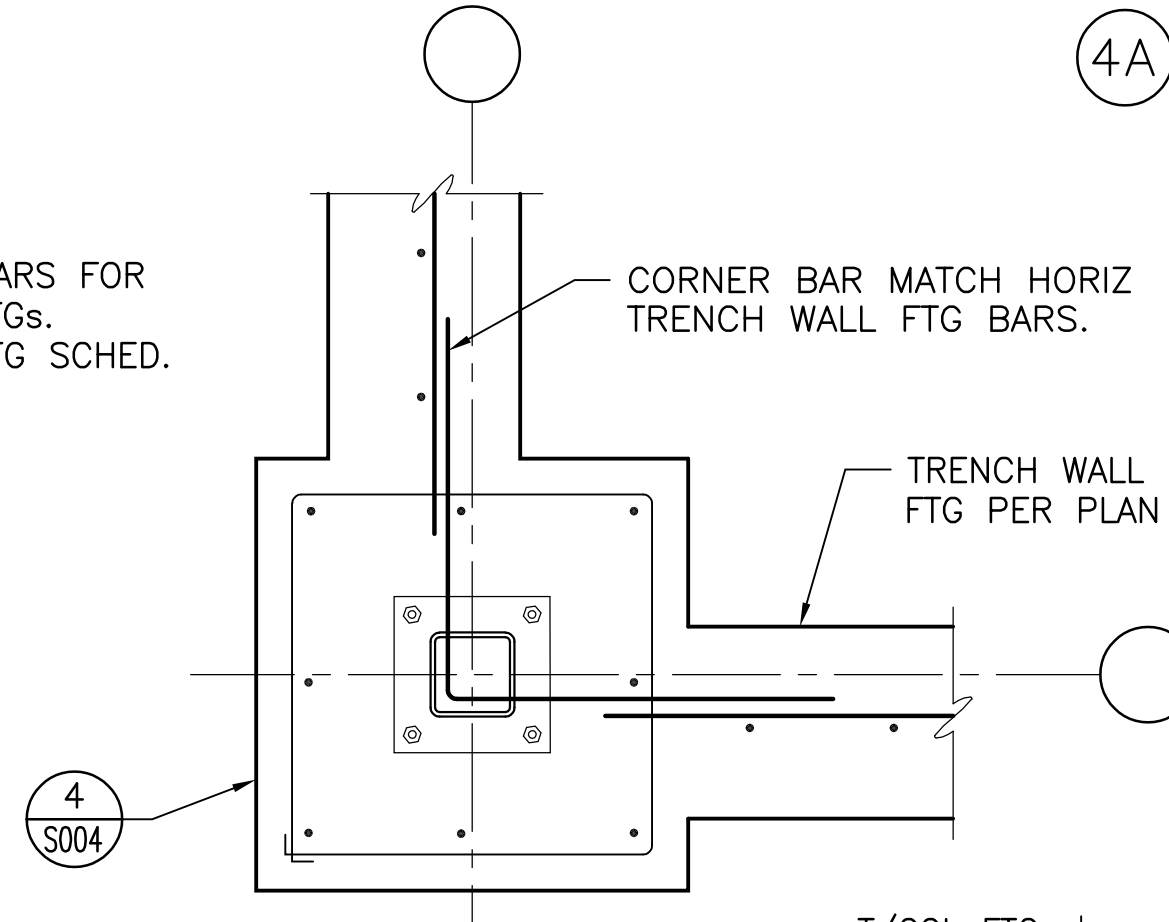
7A MASONRY COL ON INT FTG  
SCALE: 3/4" = 1'-0"



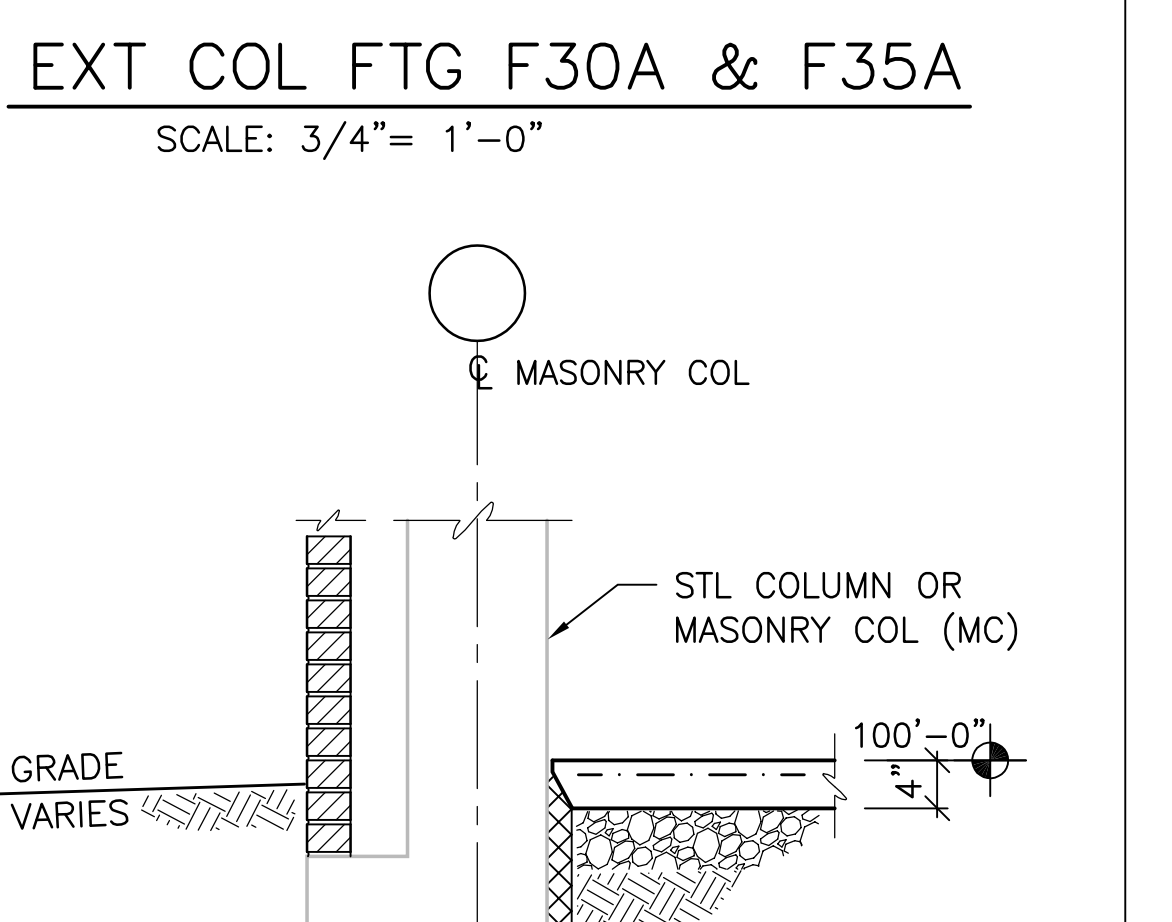
3a COL FTG F30A  
SCALE: 3/4" = 1'-0"



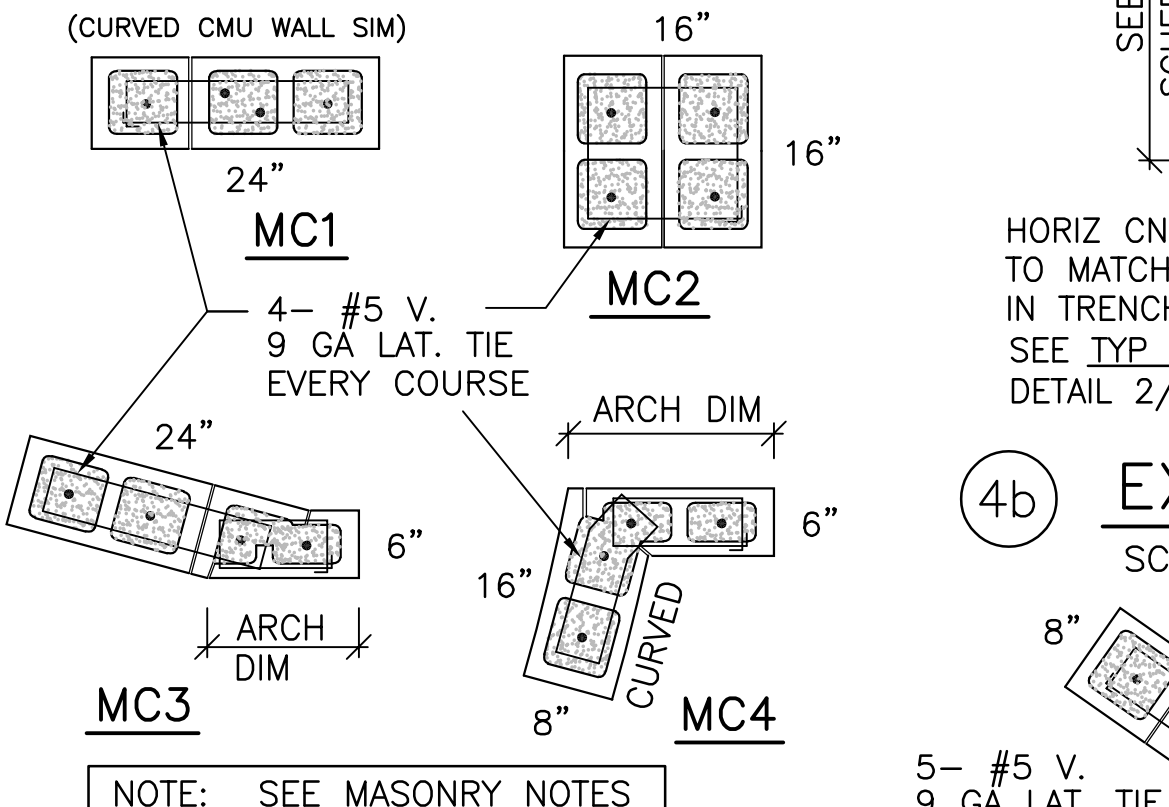
4A EXT COL FTG F30A & F35A  
SCALE: 3/4" = 1'-0"



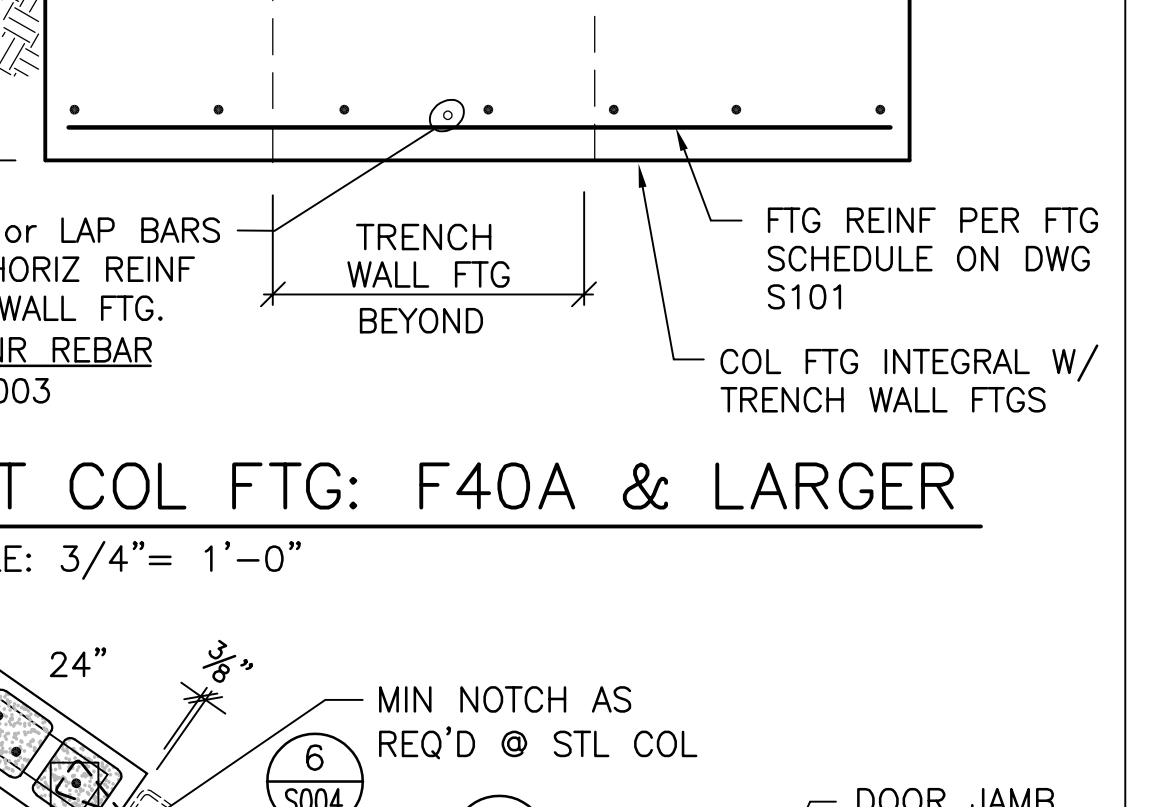
3b CORNER COL FTG  
SCALE: 3/4" = 1'-0"



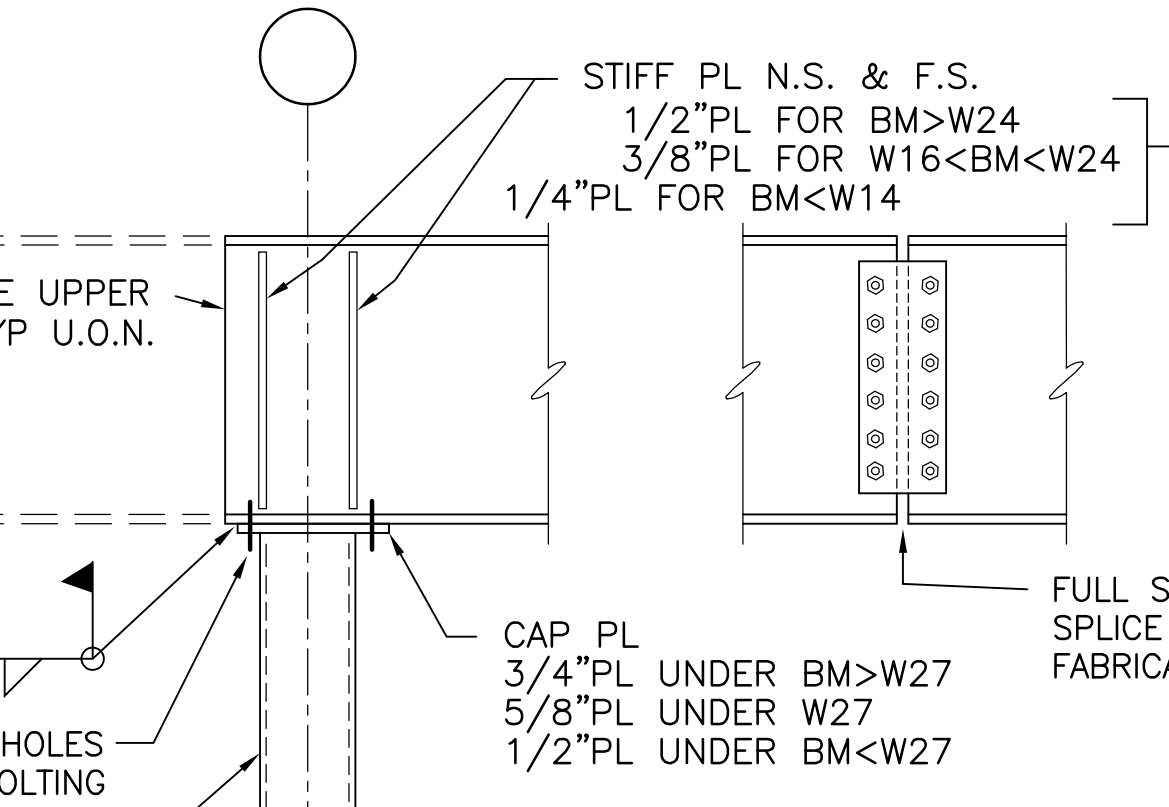
4b EXT COL FTG: F40A & LARGER  
SCALE: 3/4" = 1'-0"



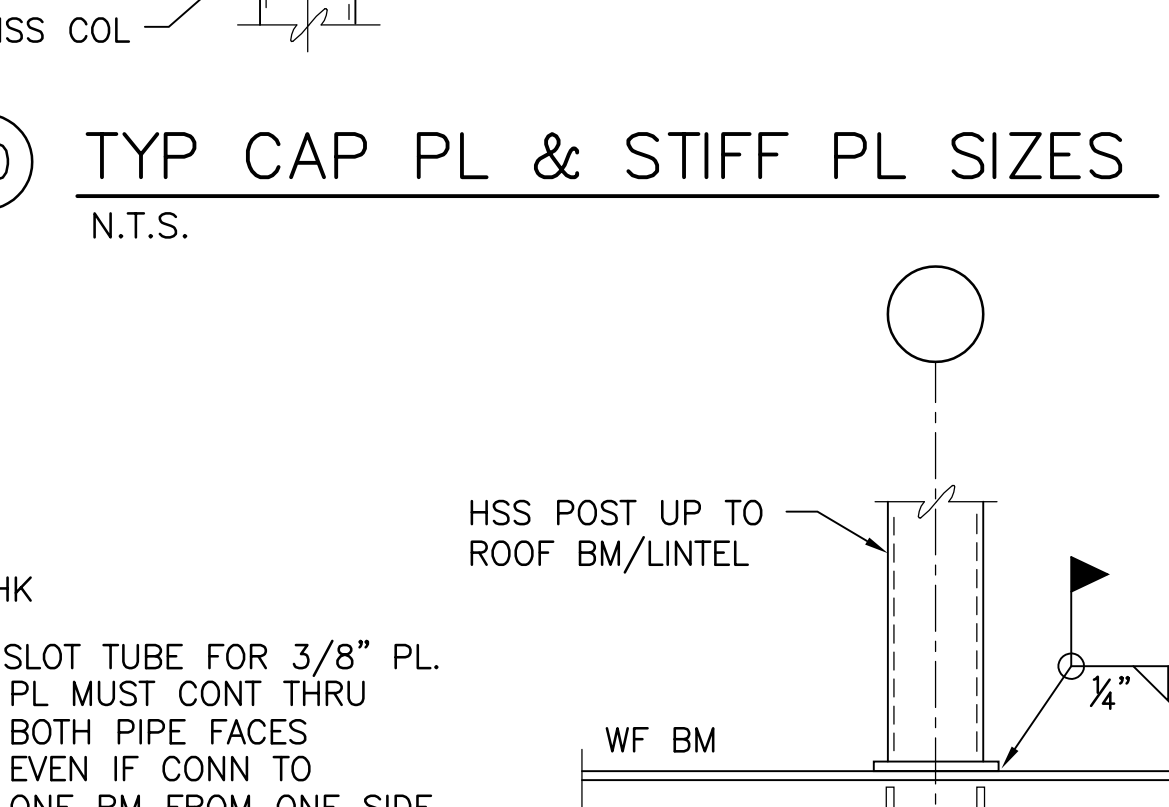
7b MASONRY COL DETAILS  
N.T.S. ON PLAN



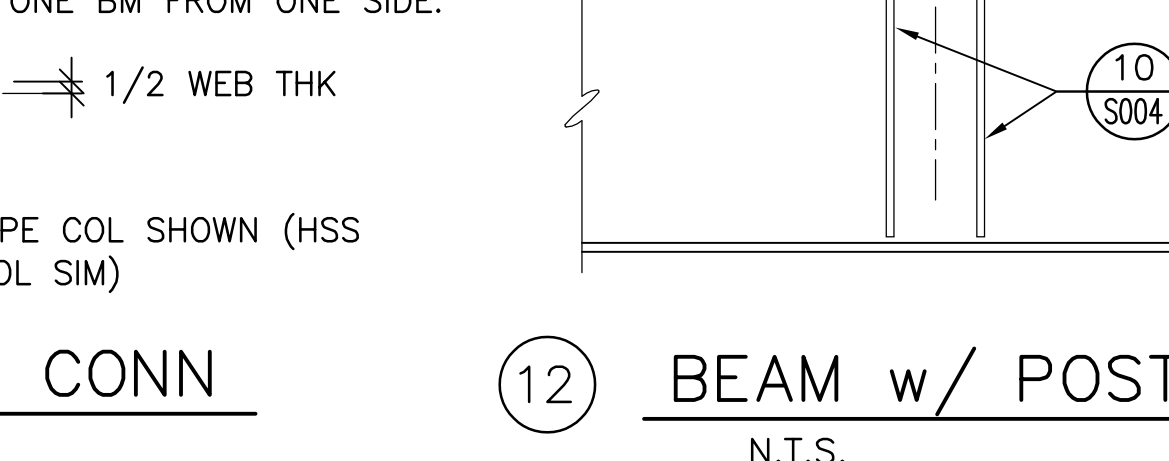
10 TYP CAP PL & STIFF PL SIZES  
N.T.S.



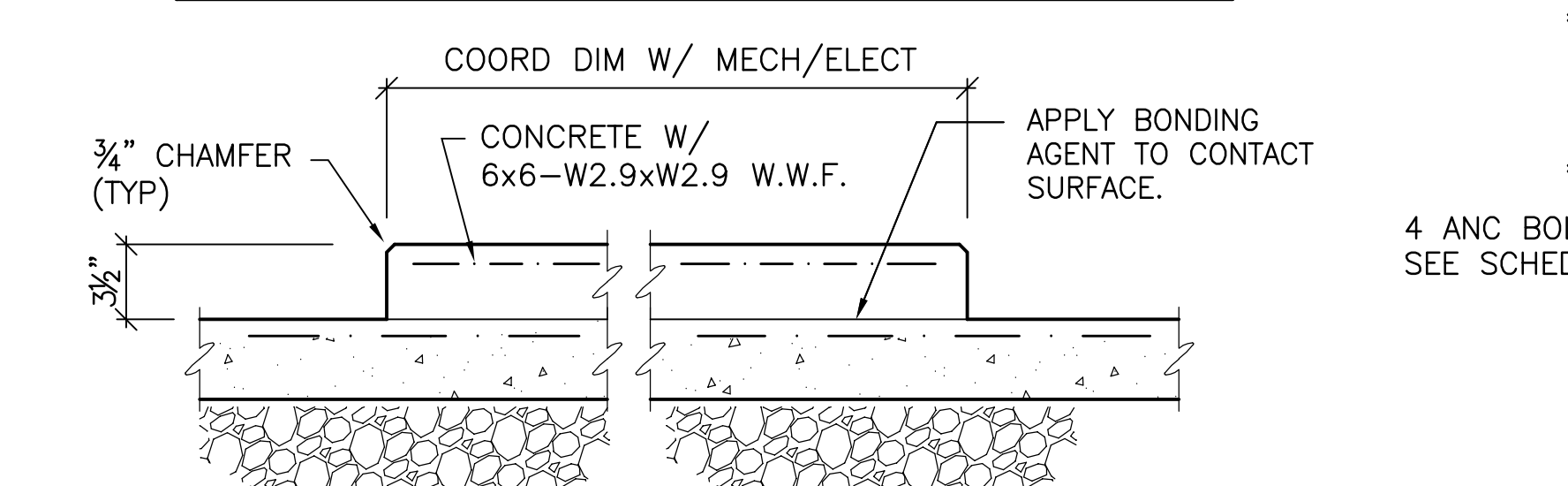
11 SECONDARY BM/ PRIMARY BM CONN  
N.T.S.



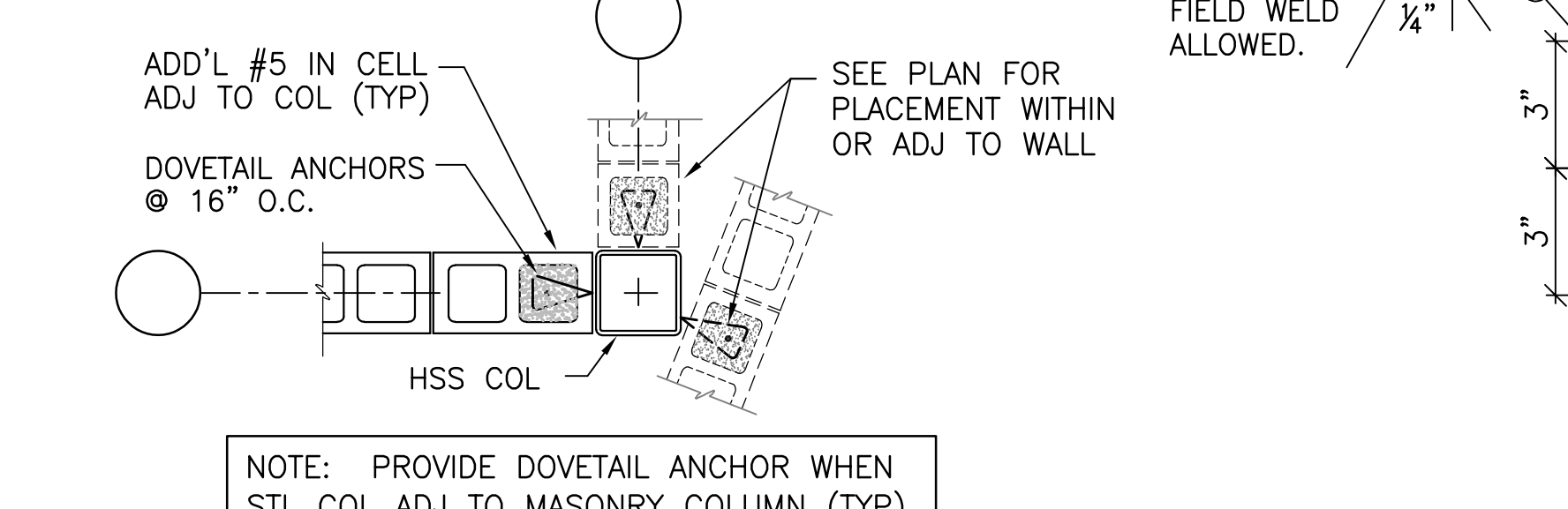
12 BEAM w/ POST UP  
N.T.S.



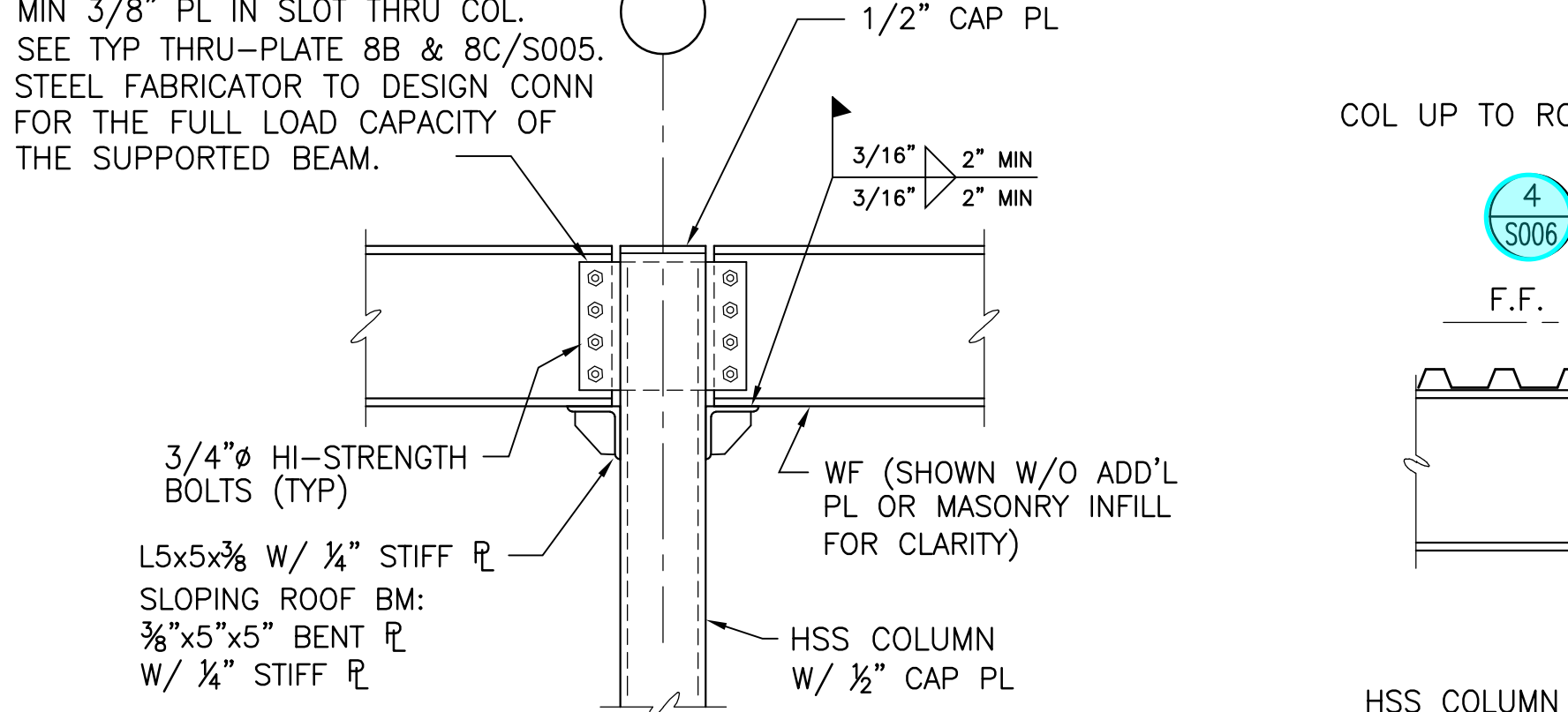
13 CANTILEVER BEAM CONN  
N.T.S.



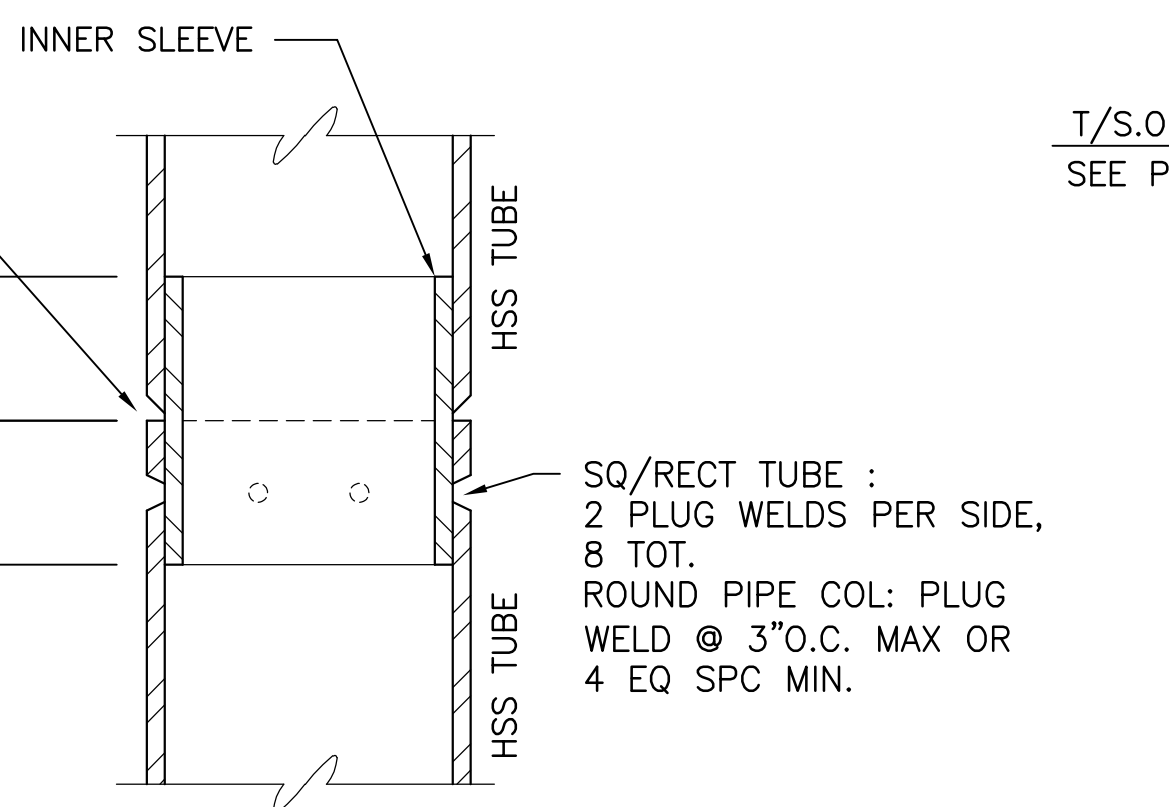
5 EQUIP PAD ON S.O.G.  
N.T.S.



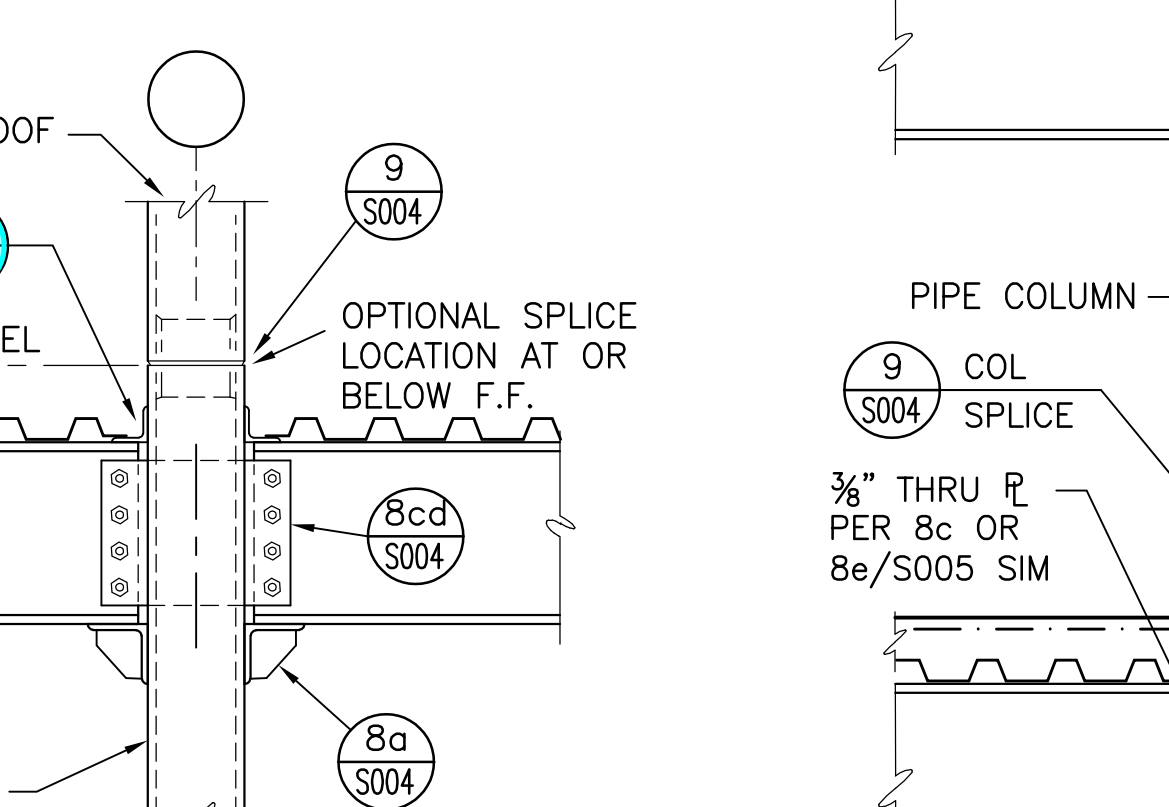
6 TYP TUBE COL ADJ TO CMU  
N.T.S.



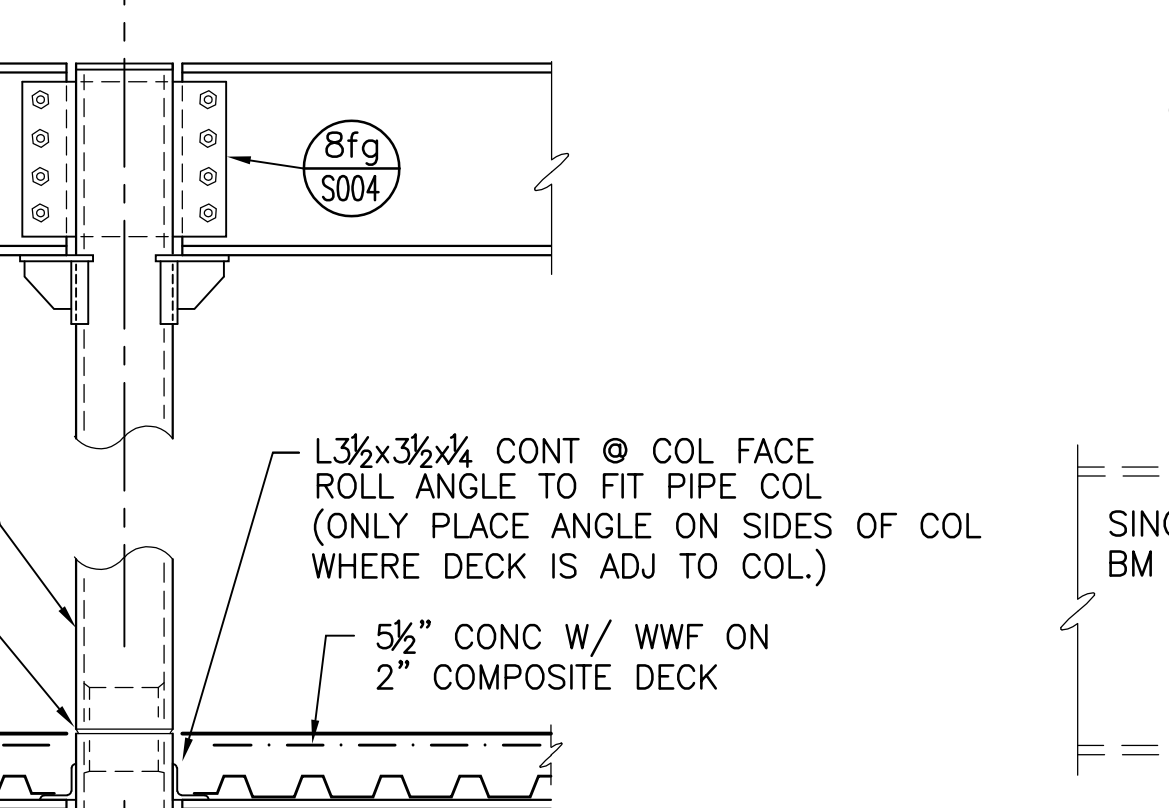
8a TYP BM/COL CONNECTION  
N.T.S.



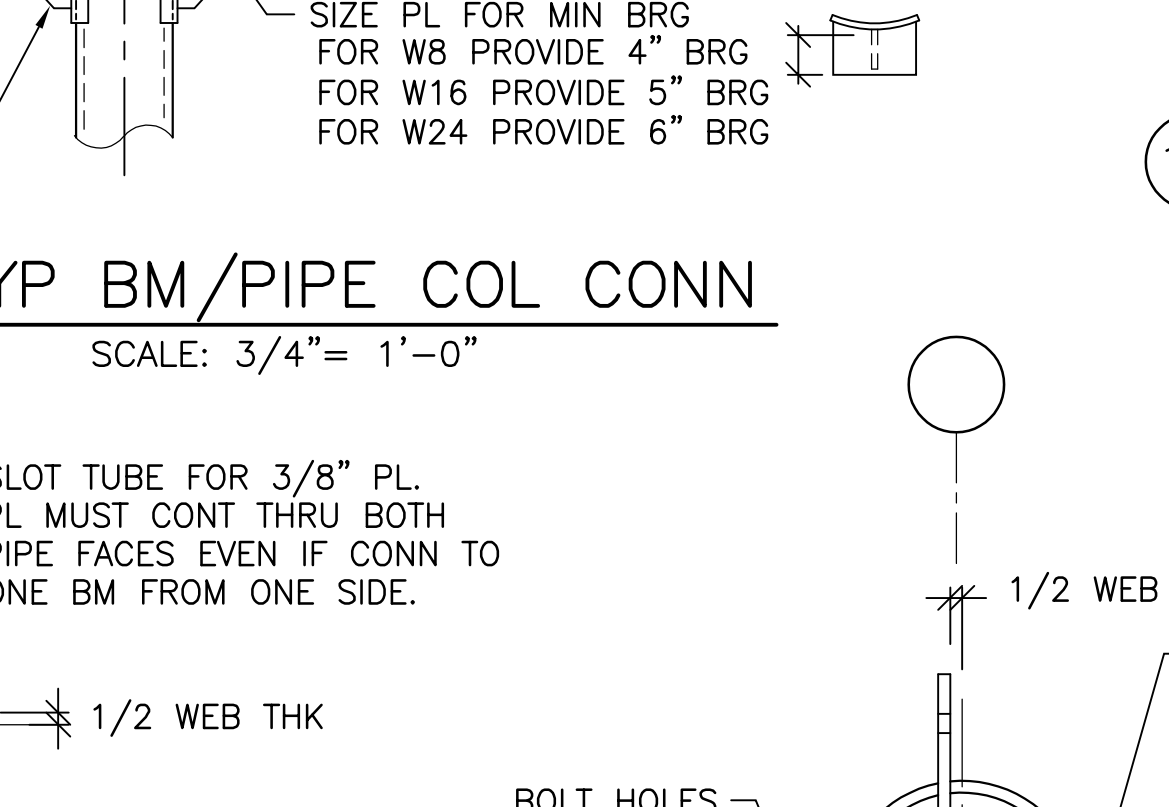
9 TYP TUBE SPLICE  
AS REQ'D. N.T.S.



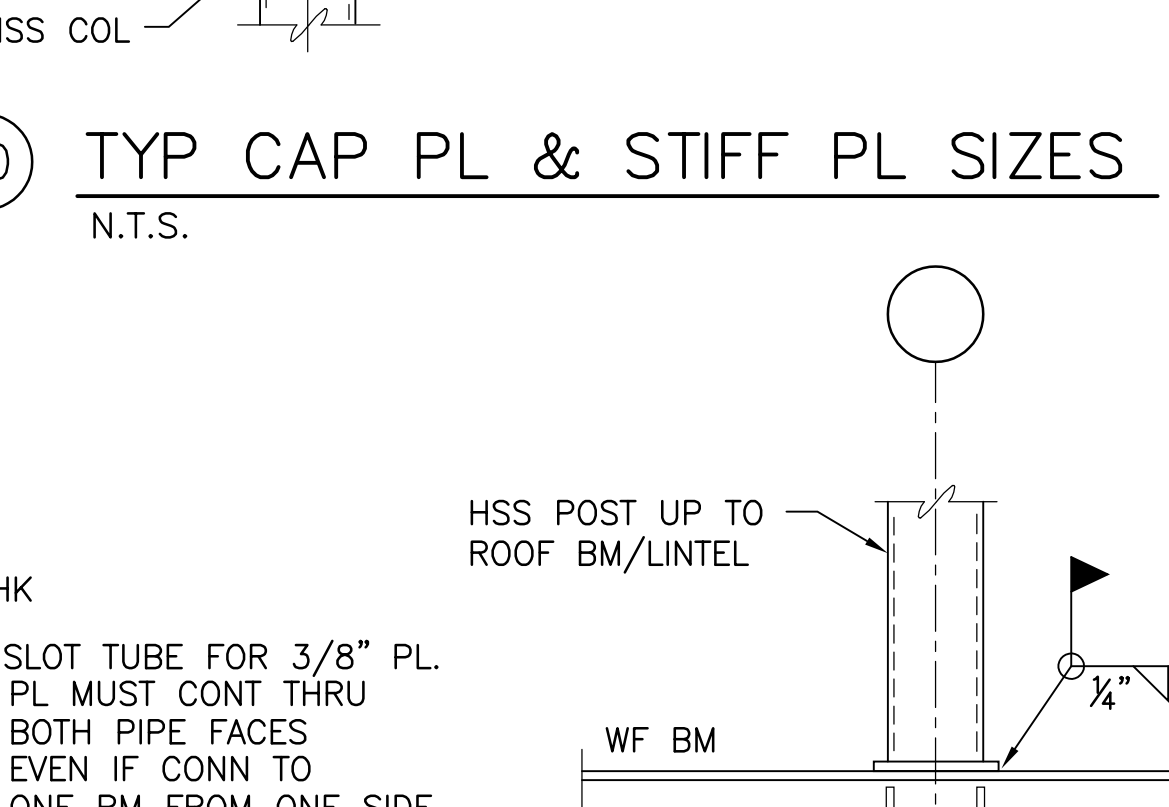
8b TYP MULTI LEVEL COL  
SCALE: 3/4" = 1'-0"



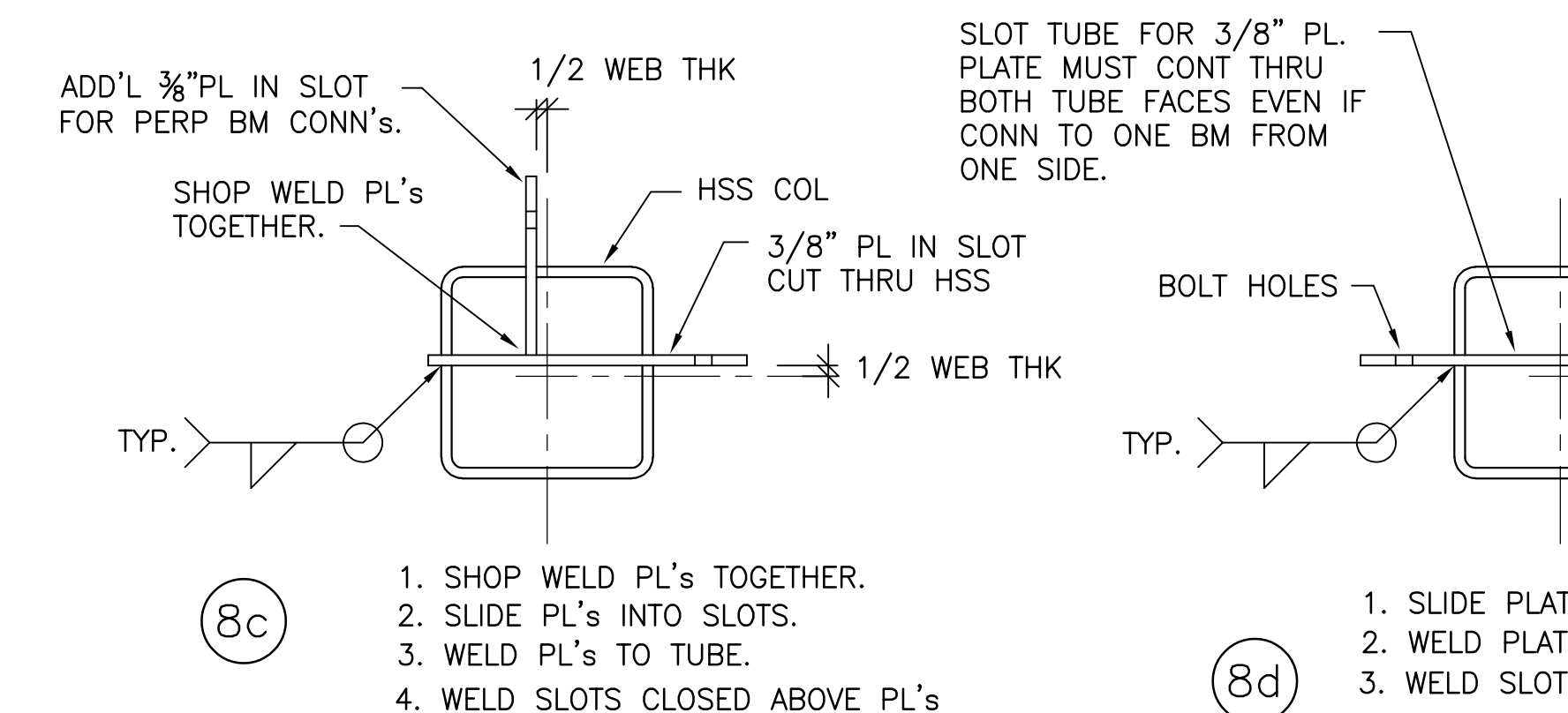
8c TYP THRU PL BM/COL CONN  
N.T.S.



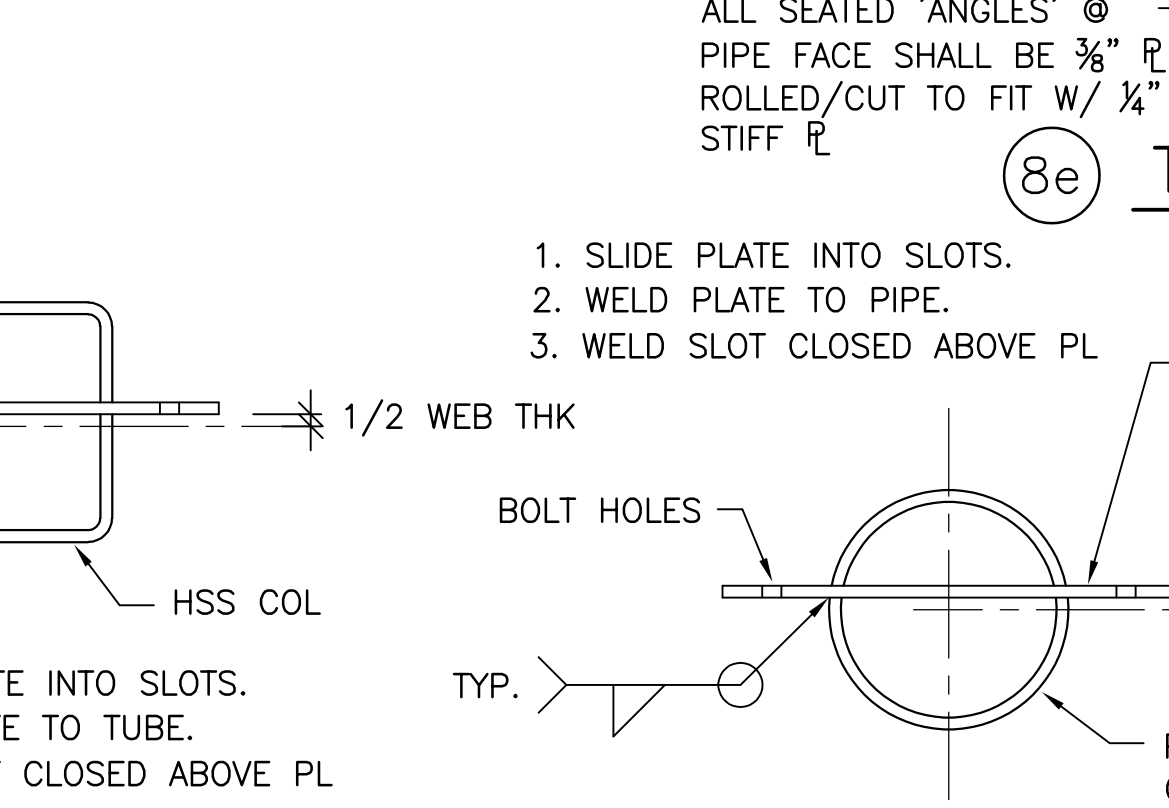
8d TYP BM/PIPE COL CONN  
SCALE: 3/4" = 1'-0"



8e TYP BM/PIPE COL CONN  
SCALE: 3/4" = 1'-0"



8f TYP BM/PIPE COL CONN  
N.T.S.



8g TYP BM/PIPE COL CONN  
N.T.S.



8h TYP BM/PIPE COL CONN  
N.T.S.

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#	DATE	CHANGE DESCRIPTION

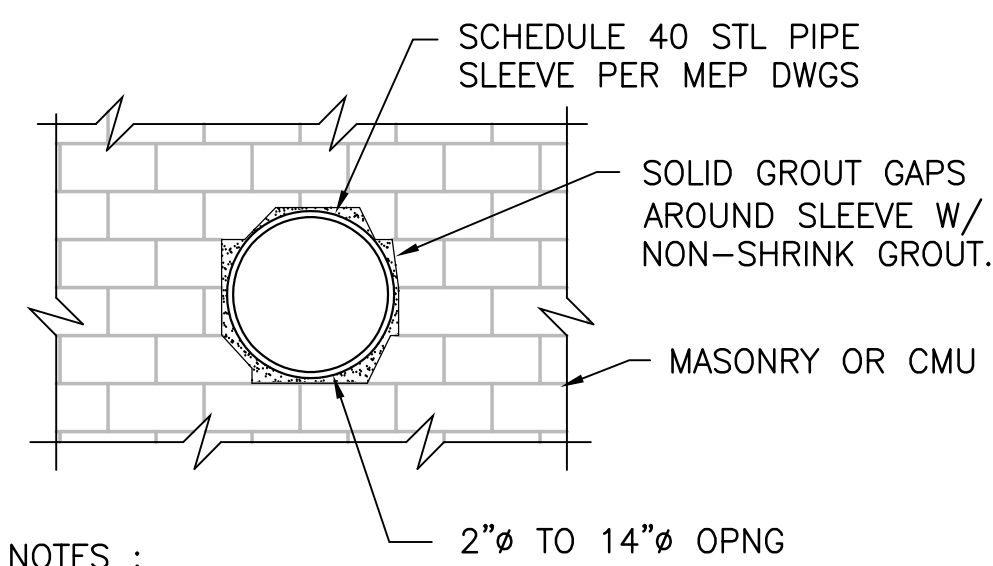
**CML KARL ROAD BRANCH**  
5590 KARL ROAD  
COLUMBUS, OH 43229  
FOR  
**COLUMBUS METROPOLITAN LIBRARY**

300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
PHONE: (614) 461-4664  
FAX: (614) 280-8881

**TYPICAL COLUMN SECTIONS & DETAILS**

2/21/2020  
DRAWN BY: AB CHECKED BY: SPS  
18428  
**S004**  
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- NOTES :
- INSTALL ONE SLEEVE AT A TIME.
  - ALTERNATE INSTALLATION OF ADJ CORE DRILLS.
  - PROVIDE PIPE SLEEVES FOR ALL PENETRATIONS THROUGH MASONRY WALLS UNLESS A LINTEL IS PROVIDED OR OTHERWISE SPECIFICALLY NOTED; AS FOLLOWS :
    - SLEEVES SHALL BE SCHEDULE 40 STEEL PIPE GROUTED SOLID IN THE WALL.
    - MINIMUM CLEAR DISTANCE BETWEEN SLEEVES = 3"
    - ALL MASONRY BETWEEN THE SLEEVES WITH LESS THAN 12" CLEARANCE SHALL BE SOLID.
    - INFILL ALL VOIDS WITH SOLID MASONRY OR GROUT.
    - COORDINATE LOCATIONS WITH ELECTRICAL/MECHANICAL.

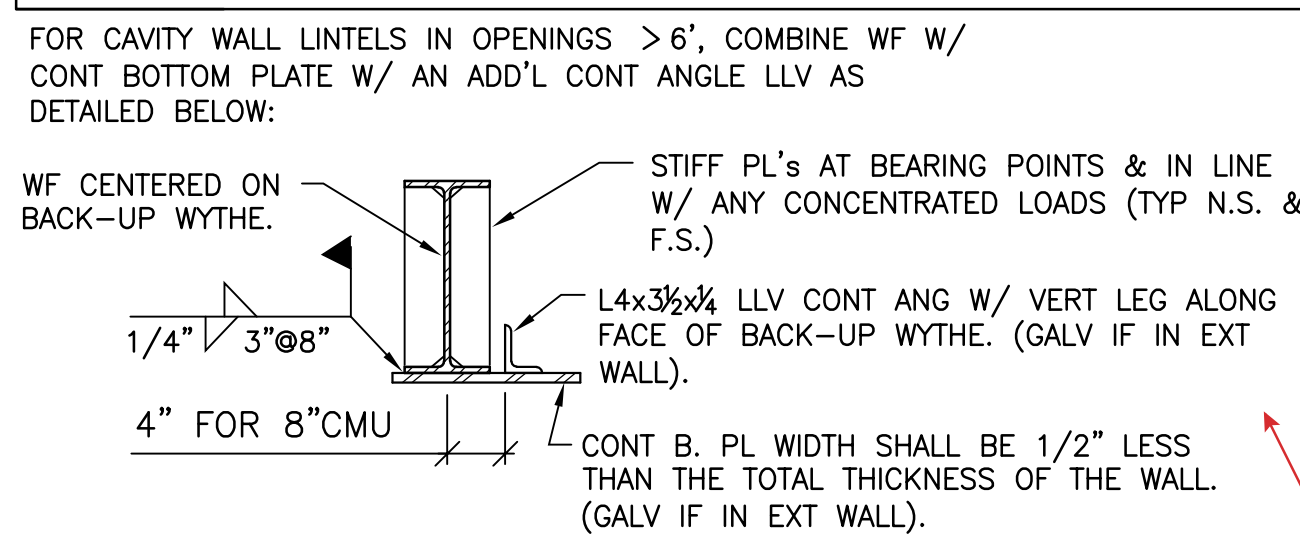
**1 TYP SLEEVED OPNG**  
N.T.S.

**STEEL LINTEL SCHEDULE:**

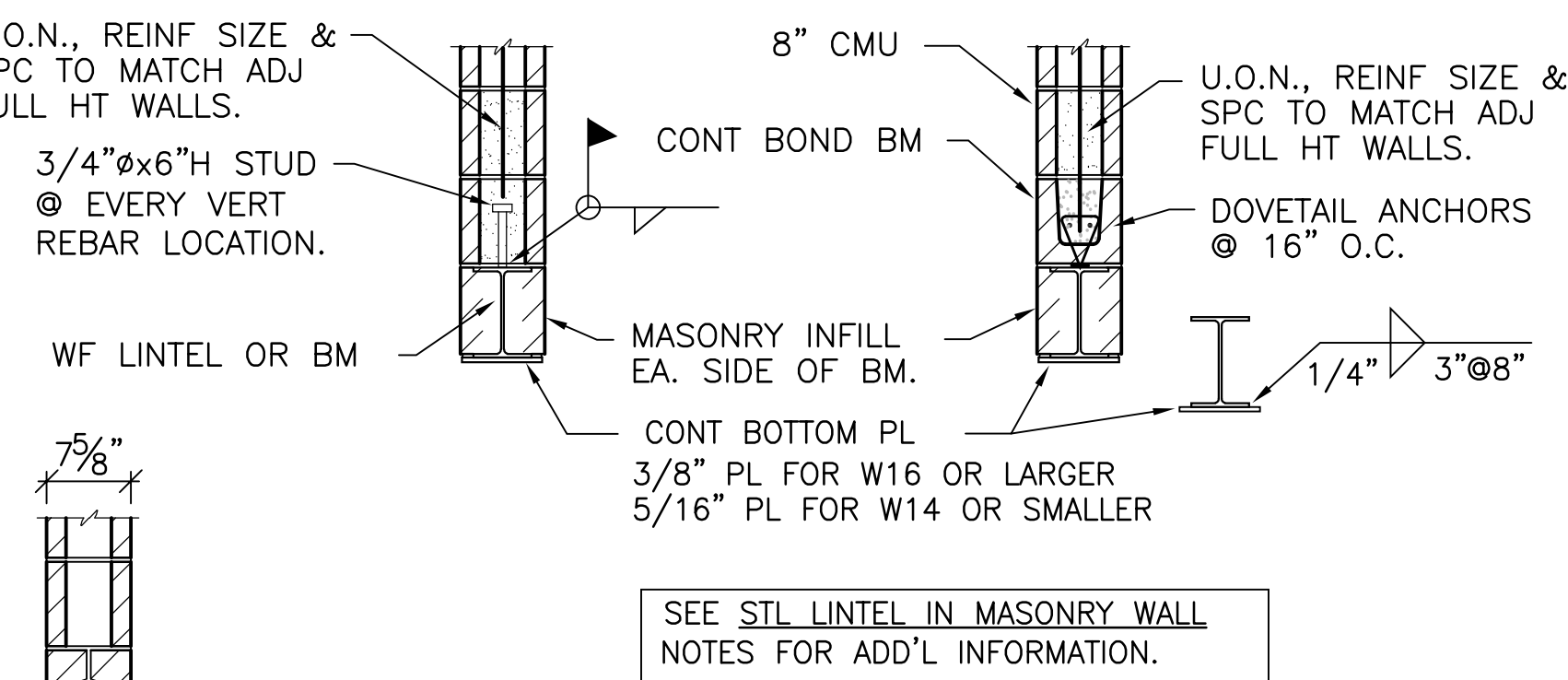
NOTE: ANGLE LINTELS TO BE PROVIDED FOR EACH 4" OF WALL THICKNESS:

MASONRY OPENING SIZE	MATERIALS	BEARING AT EACH END
0" TO 0-1 1/4"	NO LINTEL REQ'D	
2" TO 1-2"	SCHED 40 PIPE SLEEVE	
1'-3" TO 4'-0"	L4 x 3 1/2 x 5/16 (L.L.V.)	6"
4'-1" TO 6'-0"	L5 x 3 1/2 x 5/16 (L.L.V.)	6"
6'-1" TO 8'-0"	W8x18 W/ 5/16" CONT PL	8"
8'-1" TO 10'-0"	W8x21 W/ 5/16" CONT PL	8"
10'-1" TO 12'-0"	W16x31 W/ 5/16" CONT PL	12"
12'-1" TO 15'-0"	W16x36 W/ 3/8" CONT PL	12"
15'-1" TO 18'-0"	W16x40 W/ 3/8" CONT PL	15"

ANGLES & CONT BOTTOM PL's TO BE GALV WHEN LINTEL IS IN EXT WALLS.

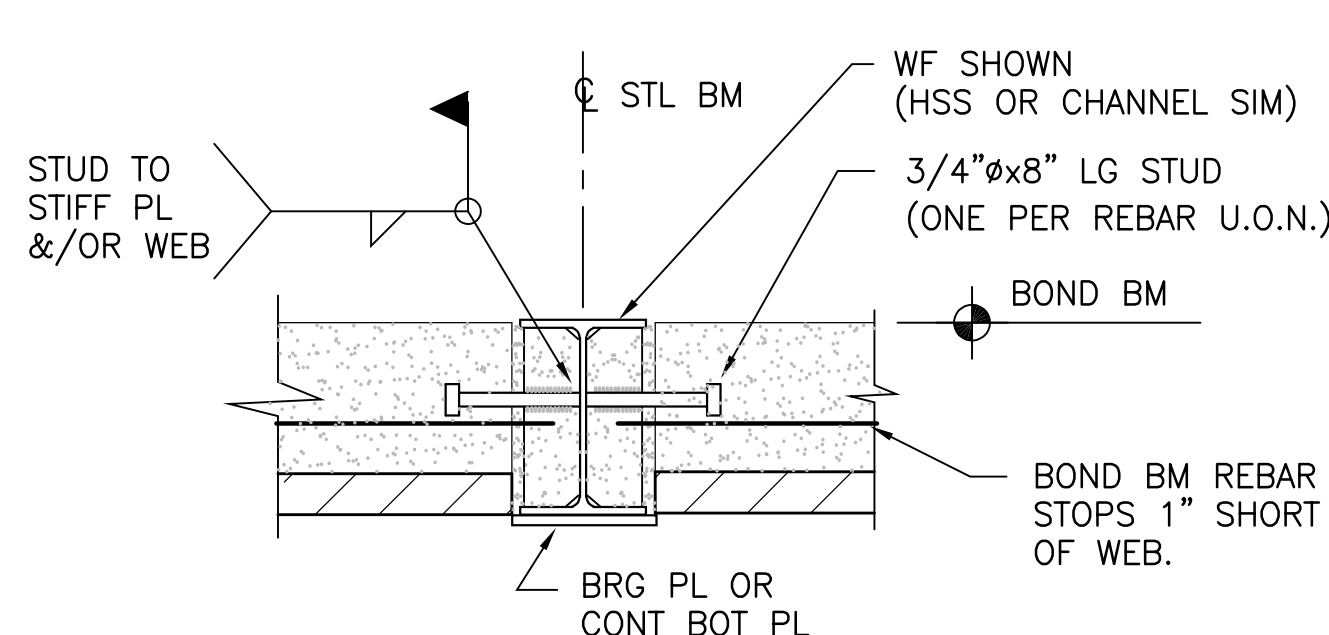


**3 TYP INSTALLATION OF BEAM OR LINTEL @ INT CMU WALL**  
SCALE: 3/4" = 1'-0"

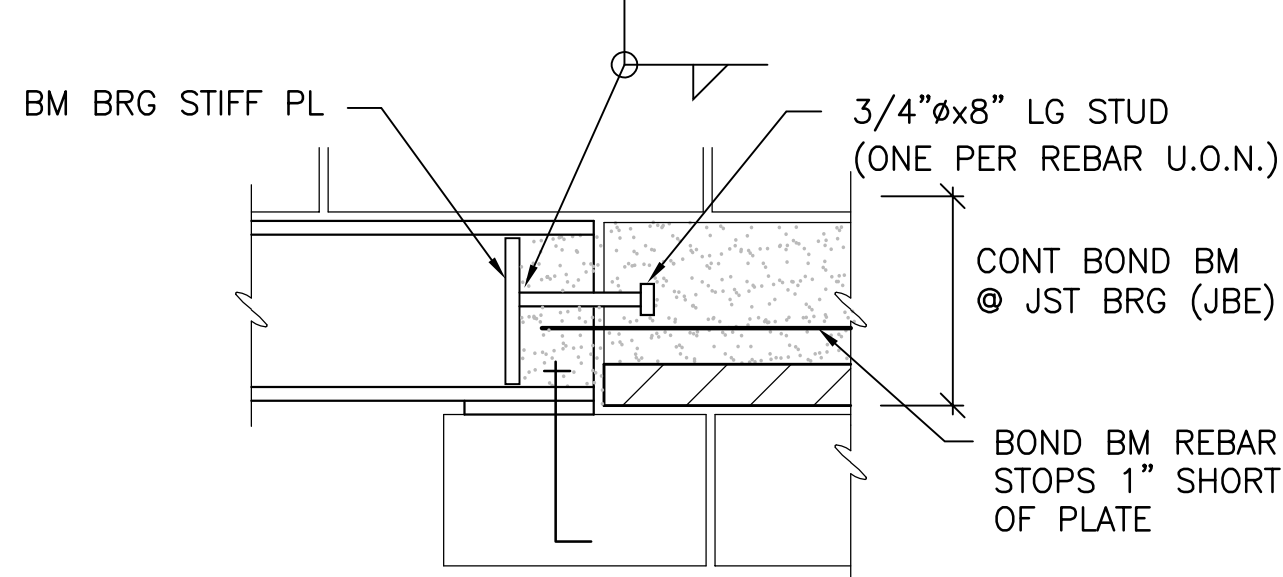


**2 TYP LINTEL NOTES & SCHEDULE**  
N.T.S.

NOTE: ANGLES & CONT BOTTOM PL's TO BE GALV WHEN LINTEL IS IN EXT WALLS.



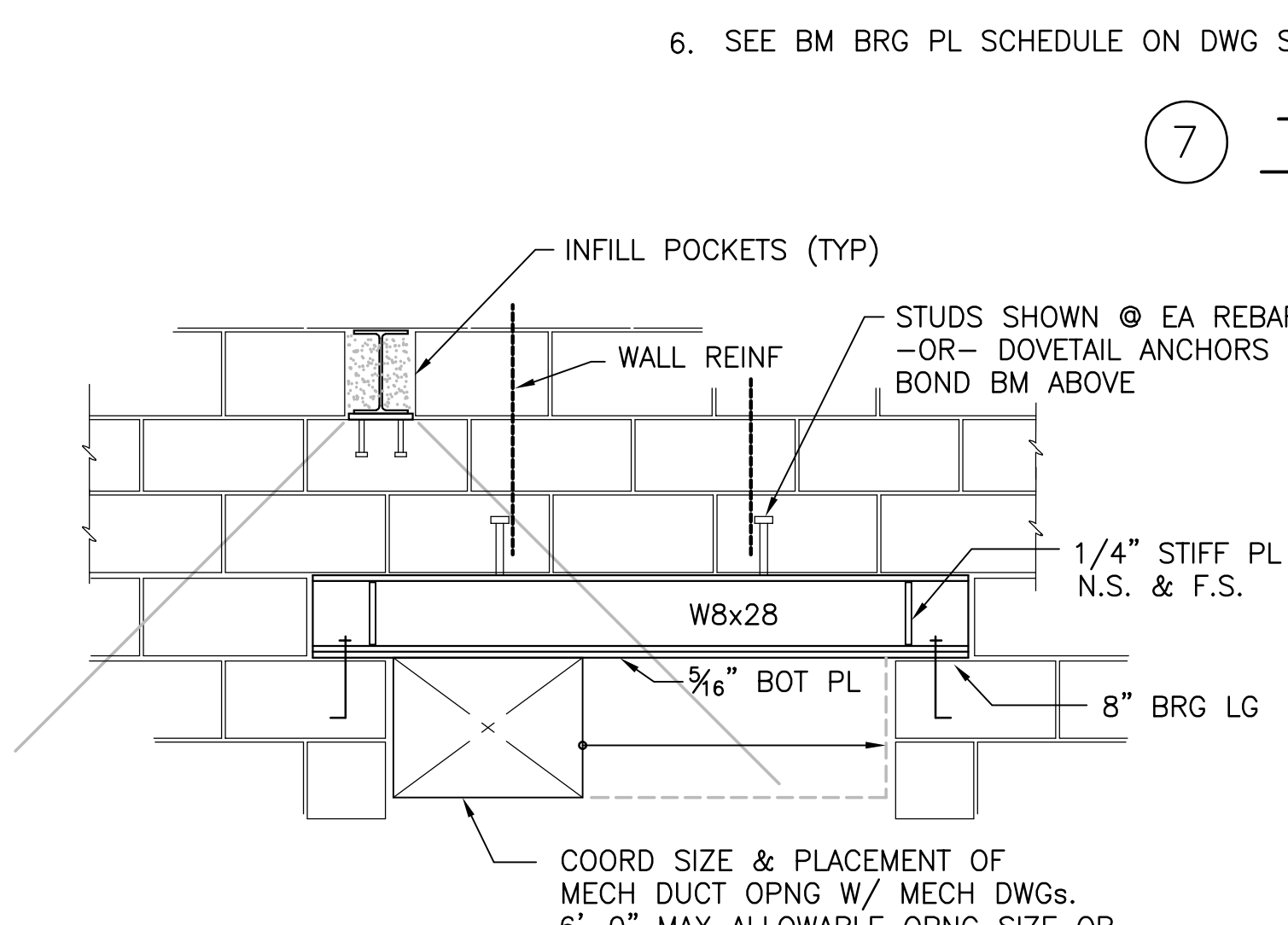
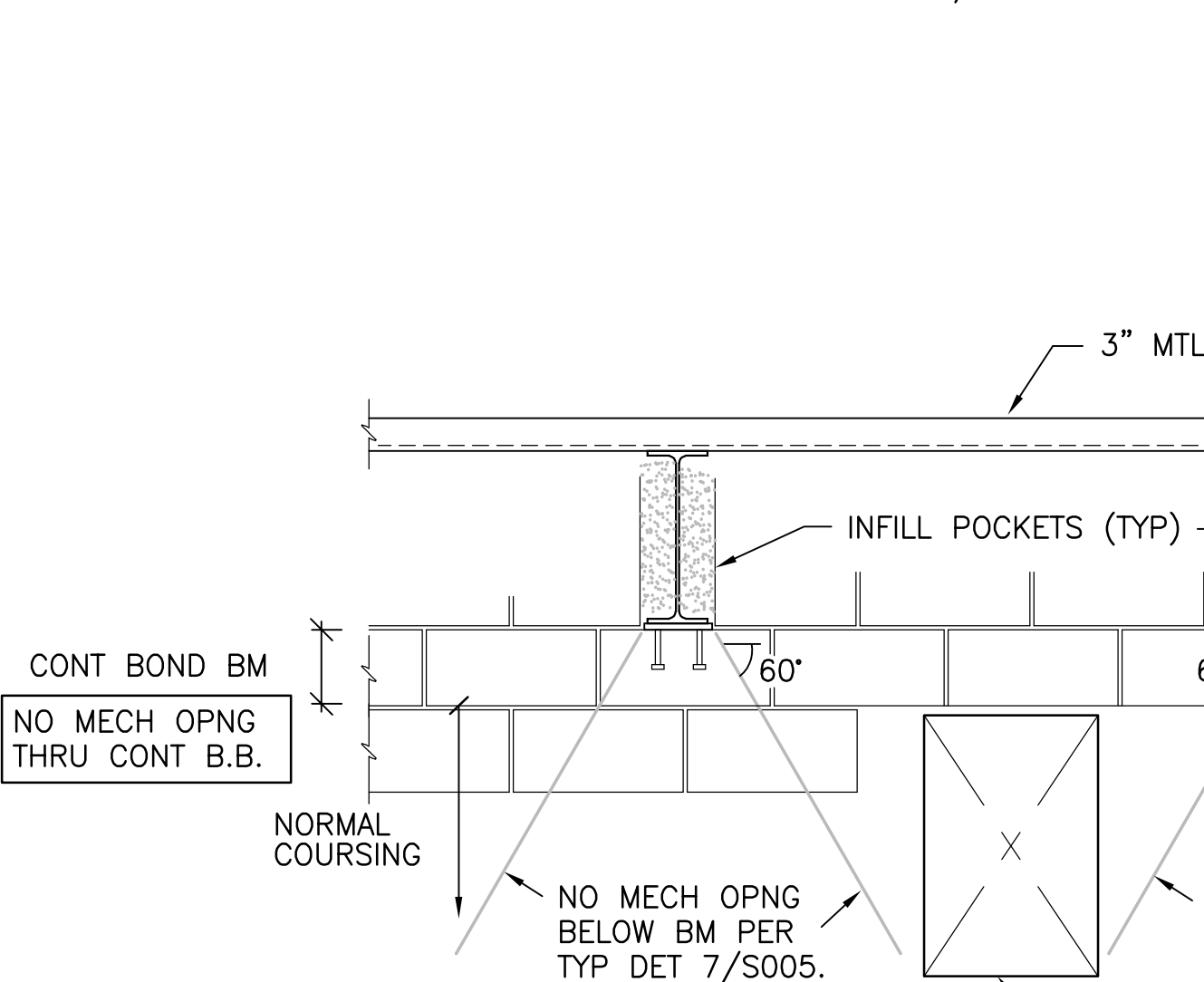
**PERPENDICULAR CONN.**



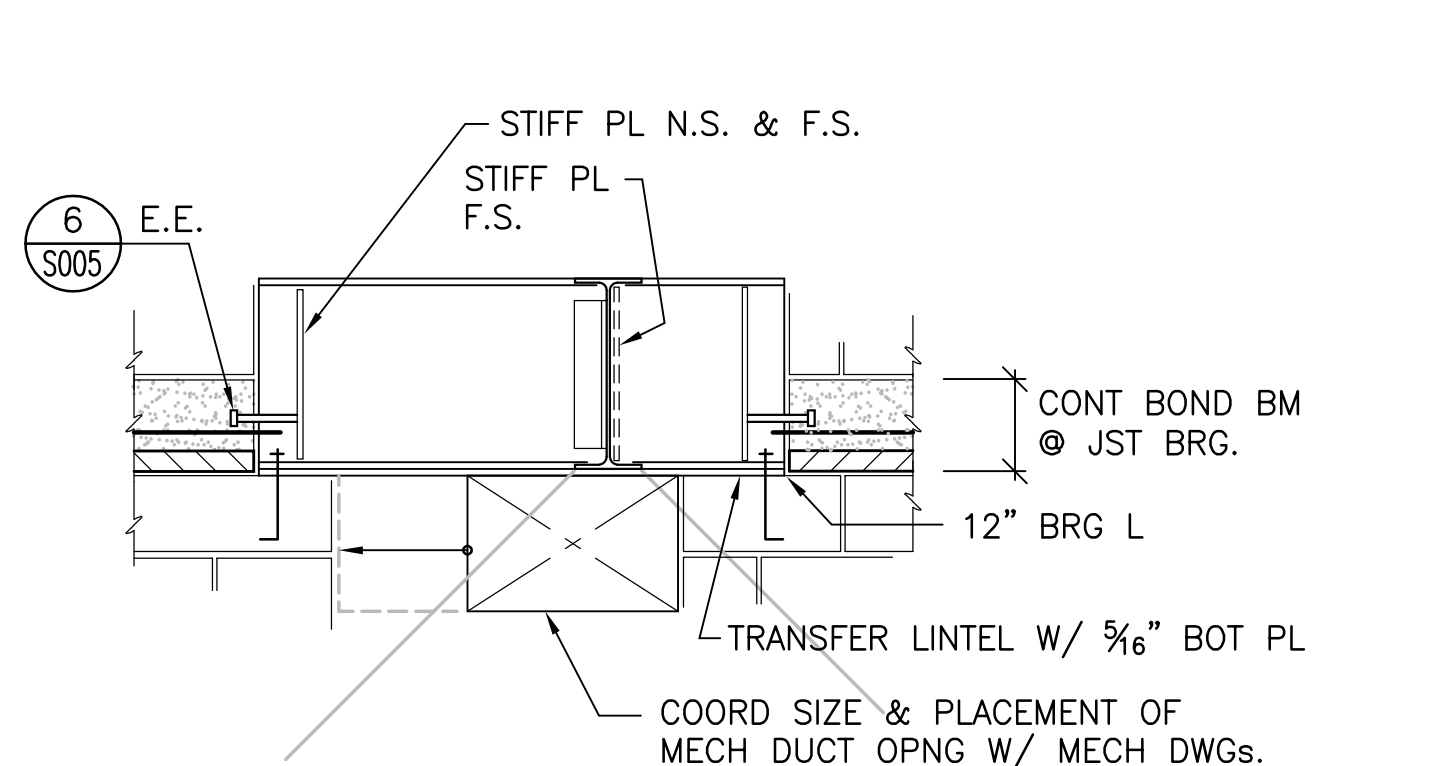
**COLINEAR CONN.**

- W16 OR DP, TUBE OR CHANNELS TIED TO BOND BM ARE SIMILAR.
- WHERE STL BM OCCURS AT CORNER BOND BM, THEN STUDS MUST TIE STL TO BOTH PERPENDICULAR & COLINEAR BOND BM ENDS.

**6 TYP BOND BM/STL BM CONNECTIONS**  
SCALE: 1 1/2" = 1'-0"



**9a TYP MECH OPNG COORD DETAIL**  
N.T.S.



- LINTEL (TRANSFER) BM SIZE TO MATCH FLR BM/ROOF BM SIZE.
- STIFF PL (THK) SIZE PER DETAIL 11/S004.
- 6'-0" MAX ALLOWABLE OPNG SIZE OR NOTIFY ARCH/ENGR.

**9b MECH OPNG UNDER BM DETAIL**  
N.T.S.

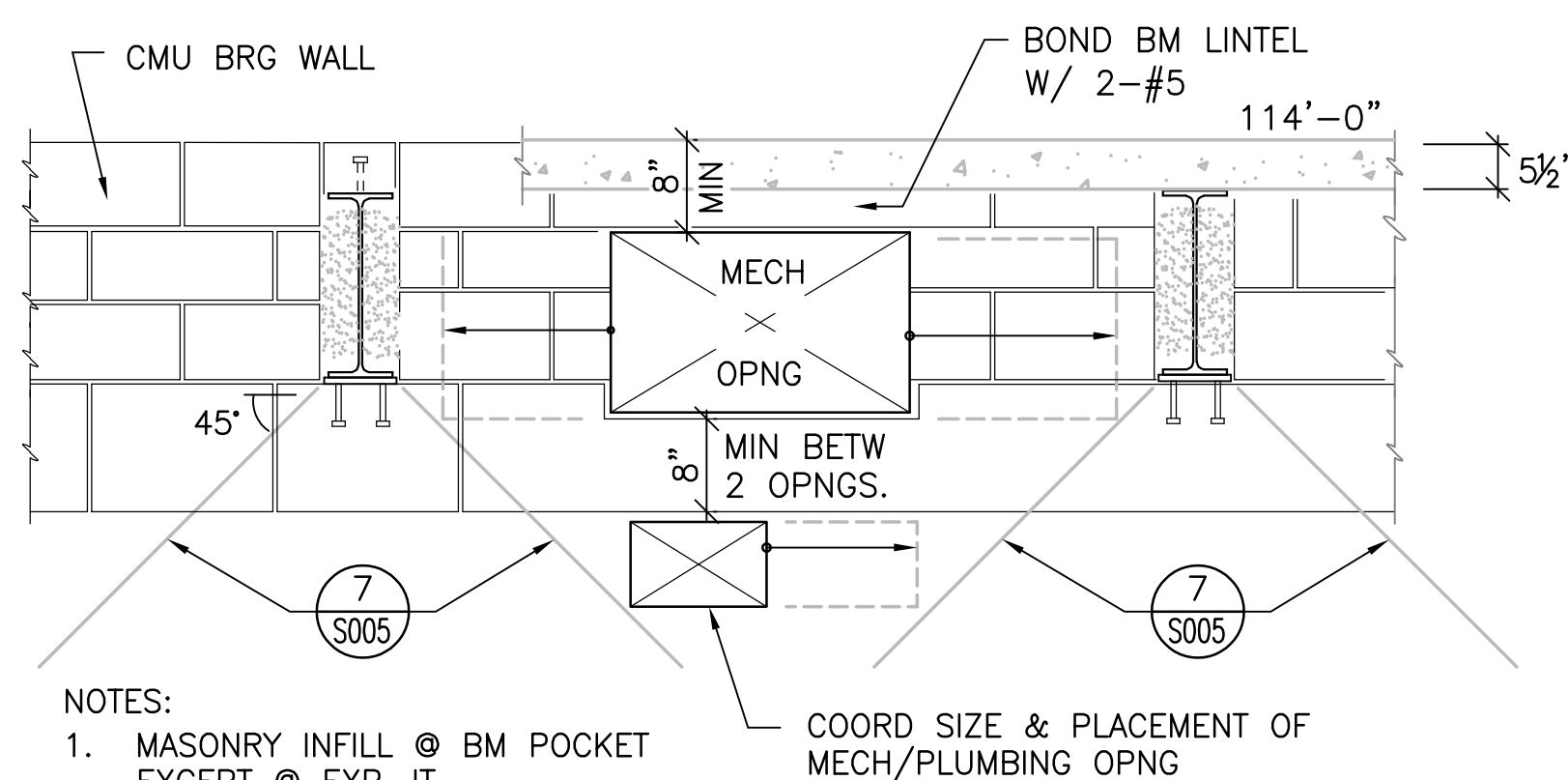
**7 TYP BM & LINTEL BRG DETAIL**  
N.T.S.



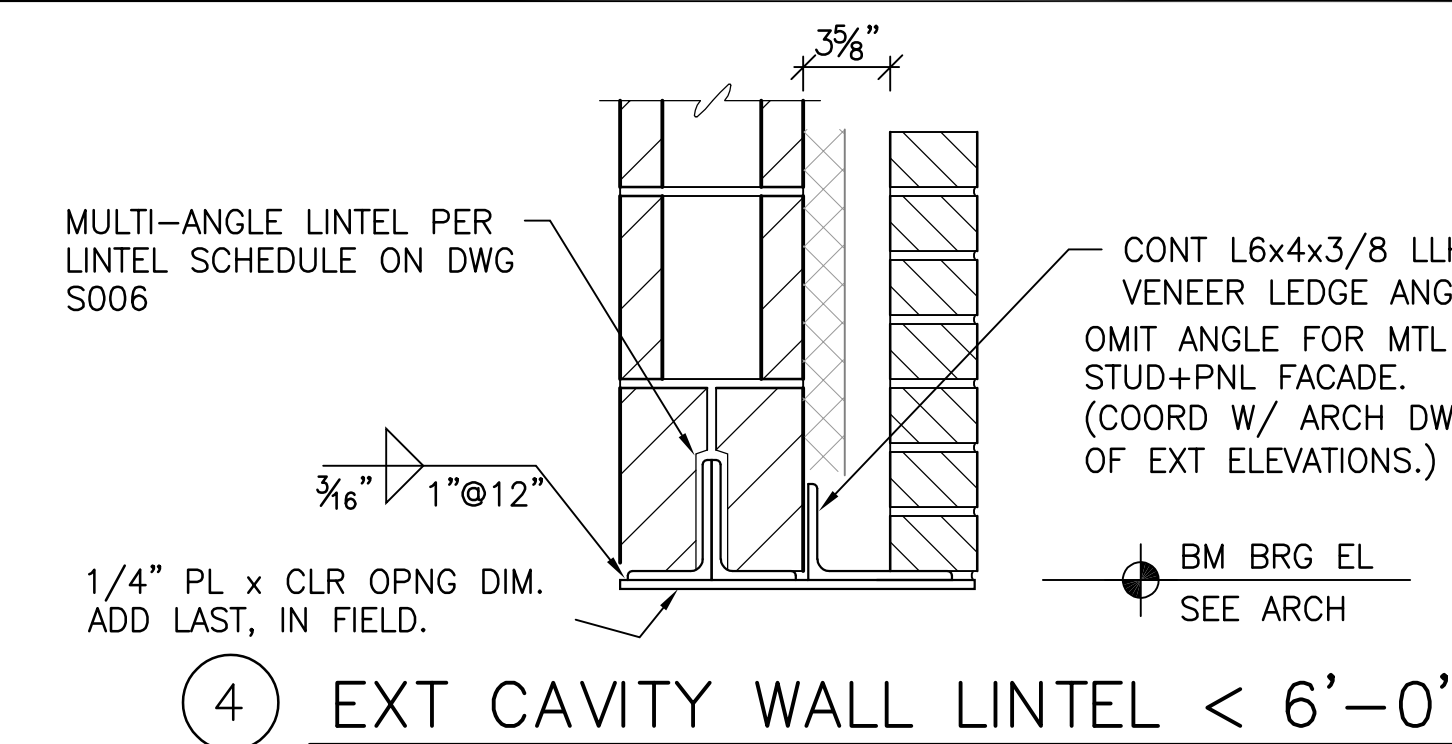
- NOTES:
- INFILL MASONRY @ BM POCKET (NOT SHOWN FOR CLARITY)
  - COORDINATE INSTALLATION W/ OTHER NOTES, TYP DETS & SCHEDULES.
  - ALL MASONRY UNITS ENTIRELY OR PARTIALLY IN SHADED AREA SHALL BE GROUT FILLED OR SOLID CMU BLOCK. TYP. UNLESS PLANS CALL FOR MASONRY COLUMN (MC#).
  - DO NOT PLACE A MECH OPNG WITHIN THE SHADED AREA BELOW BEAM OR JOIST BRG PL. SEE DETAIL 8b/S005.
  - THIS DETAIL APPLIES TO JST BRG ALSO.
  - SEE BM BRG PL SCHEDULE ON DWG S005.

WF BM SIZE	BRG @ EA END	STIFF PLATES
W6 & W8	8" BEARING	1/4" THK
W12 - W16	12" BEARING	3/8" THK
W18 - W27	16" BEARING	3/8" THK

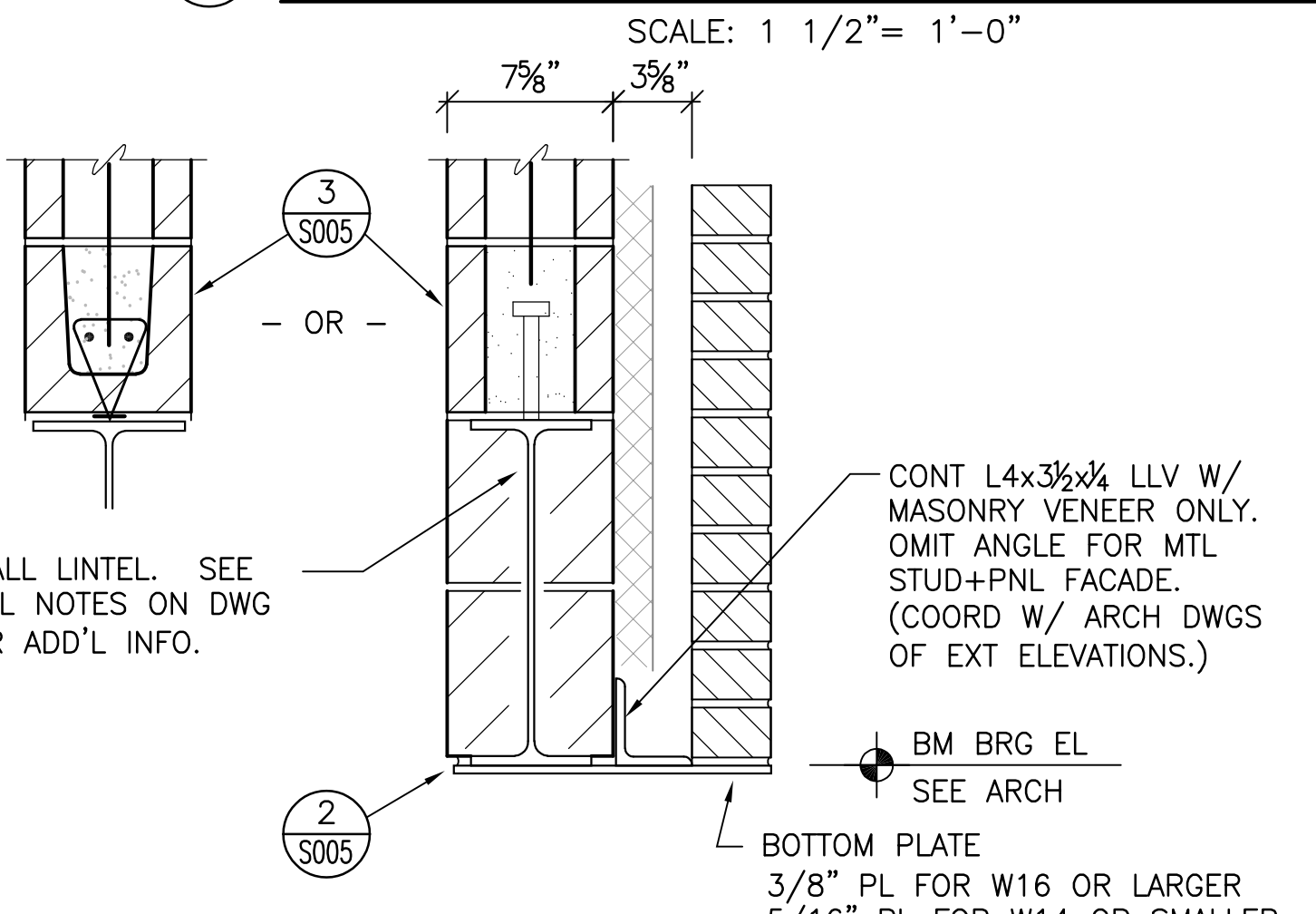
**8 TYP MECH OPNG COORD DETAIL**  
N.T.S.



- NOTES:
- MASONRY INFILL @ BM POCKET EXCEPT @ EXP JT.
  - SEE NOTES IN DETAIL 6/S005
  - WHEN DUCT OPNG MUST BE WITHIN BRG ZONE BELOW BEAM, SEE DETAIL 9a OR 9b/S005.



**4 EXT CAVITY WALL LINTEL < 6'-0"**  
SCALE: 1 1/2" = 1'-0"

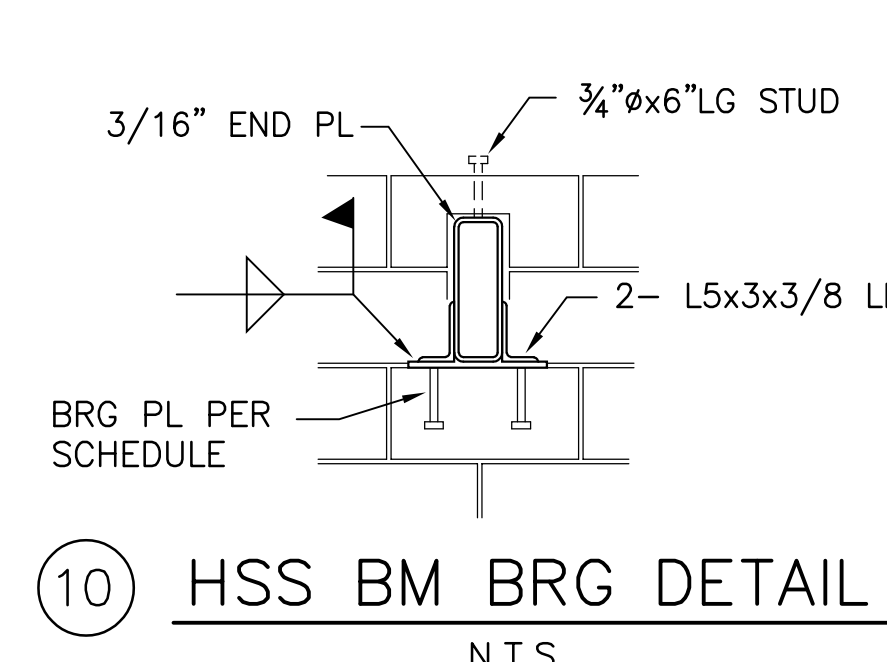


**5 EXT CAVITY WALL LINTEL > 6'-0"**  
SCALE: 1 1/2" = 1'-0"

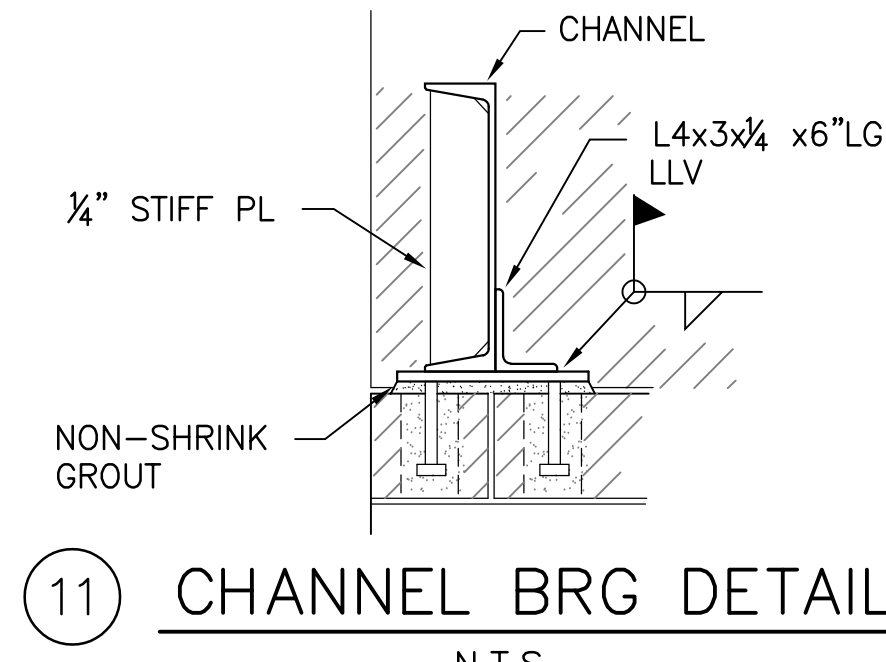
**BEARING PL SCHEDULE**

SIZE	8" CMU WALL	ANCHORS (E.E)	REMARKS
W6 (MAX WT 20)	3/8"x7 1/2"x10"	2- 3/4"x8" LG	
W8 (MAX WT 31)	3/8"x7 1/2"x10"	2- 3/4"x8" LG	
W10 (MAX WT 30)	1/2"x7 1/2"x10"	2- 3/4"x8" LG	
W12 (MAX WT 30)	1/2"x7 1/2"x10"	2- 3/4"x8" LG	
W14 (MAX WT 30)	1/2"x7 1/2"x10"	2- 3/4"x8" LG	
W16 (MAX WT 31)	3/8"x7 1/2"x10"	2- 3/4"x8" LG	
W16 (MAX WT 40)	3/8"x7 1/2"x16"	2- 3/4"x8" LG	
W18 (MAX WT 35)	3/8"x7 1/2"x16"	2- 3/4"x8" LG	
W16 (MAX WT 50)	3/4"x7 1/2"x18"	2- 3/4"x8" LG	
W18x55 (MAX)	3/4"x7 1/2"x24"	4- 3/4"x8" LG	
W21x50 (MAX)	3/4"x7 1/2"x24"	4- 3/4"x8" LG	
W24x62 (MAX)	3/4"x7 1/2"x24"	4- 3/4"x8" LG	
HSS (UP TO 8)	3/8"x7 1/2"x10"	2- 3/4"x8" LG	10/S005
HSS (UP TO 16)	1/2"x7 1/2"x12"	2- 3/4"x8" LG	10/S005
C4 TO C12	3/8"x7 1/2"x10"	2- 3/4"x8" LG	11/S005

- BEARING PLATE SCHEDULE NOTES :**
- SEE TYP BM & LINTEL BRG DETAIL 7/S005 FOR STIFF PL AT BRG, & SOLID GROUTING OF CORES IN CMU BRG ZONE BELOW BM/JST (TYP)
  - BRG PL DIM. MAY BE ADJUSTED AS REQ'D TO BETTER FIT WALL OR MASONRY COL CONFIGURATION, HOWEVER, BEARING PRESSURES ARE NOT TO EXCEED THOSE LISTED IN STRUCTURAL STL NOTE #11 ON DWG S002. VARIATIONS FROM THIS BRG SCHEDULE ARE TO BE CLEARLY FLAGGED ON THE SHOP DWGS FOR REVIEW.
  - BM TO BE FIELD WELDED 1/4"- 4" LG EA SIDE TO BRG PLATE.
  - 8" ANCHOR BOLTS SHALL BE 5"V + 3" HK. CONTRACTOR MAY SUBSTITUTE MATCHING DIA x5 1/2" LG STUDS.



**10 HSS BM BRG DETAIL**  
N.T.S.



**11 CHANNEL BRG DETAIL**  
N.T.S.

- STEEL LINTELS FOR MASONRY WALLS:**
- ALL BEAM LINTELS SHALL HAVE 16" OF SOLID MASONRY BELOW BEARING END, U.O.N. ON PLAN TO BEAR ON A MASONRY COL.
  - ALL ANGLE LINTELS SHALL HAVE 8" OF SOLID MASONRY BELOW BEARING END, UNLESS NOTED OTHERWISE.
  - CONT BOTTOM PLATES WIDTH SHALL BE 1/2" LESS THAN THE TOTAL WALL THICKNESS AND EXTEND FOR THE FULL LENGTH OF BEAM INCLUDING THE BEARING ENDS UNLESS NOTED OTHERWISE.
  - BOTTOM PLATES SHALL BE WELDED TO BEAM WITH A 1/4" FILLET WELD 3" LONG ON BOTH SIDES AT 8" ON CENTER, STAGGER PLACEMENT OF WELDS FROM SIDE TO SIDE.
  - PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS NOT OTHERWISE INDICATED ON THE DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION, NUMBER, AND SIZES OF OPENINGS. ONLY REPRESENTATIVE LINTELS ARE SHOWN IN THE STRUCTURAL FRAMING PLANS. EXACT QUANTITY OF SUCH LINTEL REQUIREMENTS TO BE DETERMINED BY MECHANICAL, ELECTRICAL & ARCHITECTURAL DRAWING COORDINATION PRIOR TO BIDDING.
  - REFER TO THESE NOTES FOR BEAMS THAT ARE SIZED ON THE FRAMING PLANS. ALTHOUGH THE LINTEL SCHEDULE DOES NOT OVERRIDE THE BEAM'S SIZE, APPLY ALL OTHER RELATED INFO ABOUT BM BRG LENGTHS & WELDING OF PL & ANGLE, ETC.
  - ALTHOUGH NO LINTEL IS REQ'D FOR SMALL OPNGS LESS THAN 16" WIDE, NO WALL REINF IS TO BE CUT WHEN THE OPNG IS MADE & IF MULTIPLE VERY SMALL OPNGS ARE TO BE MADE, ADJACENT OPNGS ARE NOT TO BE WITHIN 16" OF EACH OTHER.
  - WHENEVER A LINTEL OR BM OCCURS DIRECTLY BELOW A CONT BOND BM, TIE THE BOND BM TO THE WF TOP FLANGE W/ DOVETAIL ANCHORS @ 16" O.C.

**Kabil Associates, Inc.**  
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#	DATE	CHANGE DESCRIPTION

**CML KARL ROAD BRANCH**  
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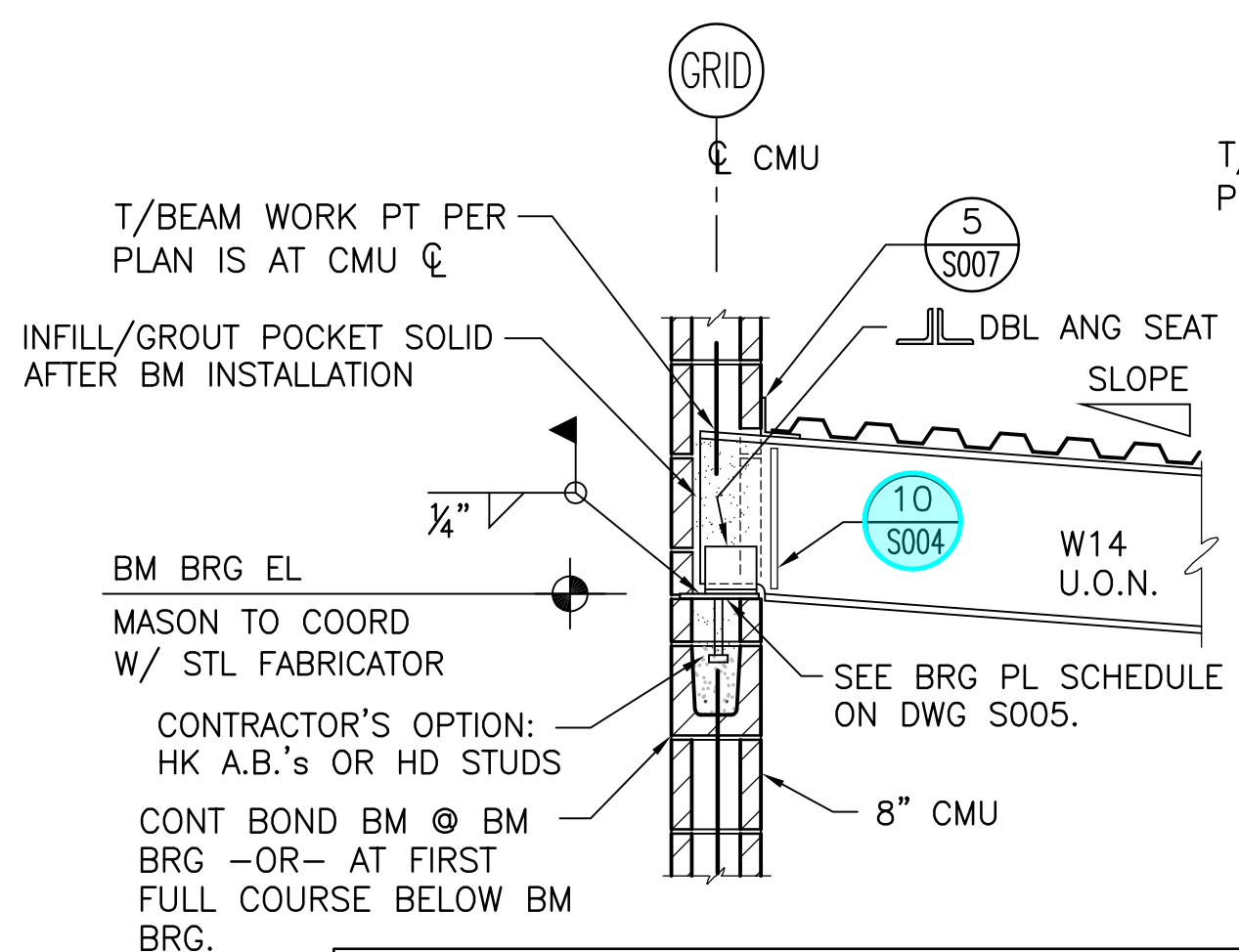
**TYPICAL CMU LINTEL SCHEDULES & DETAILS**

2/21/2020  
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18428  
**S005**  
PERMIT SET

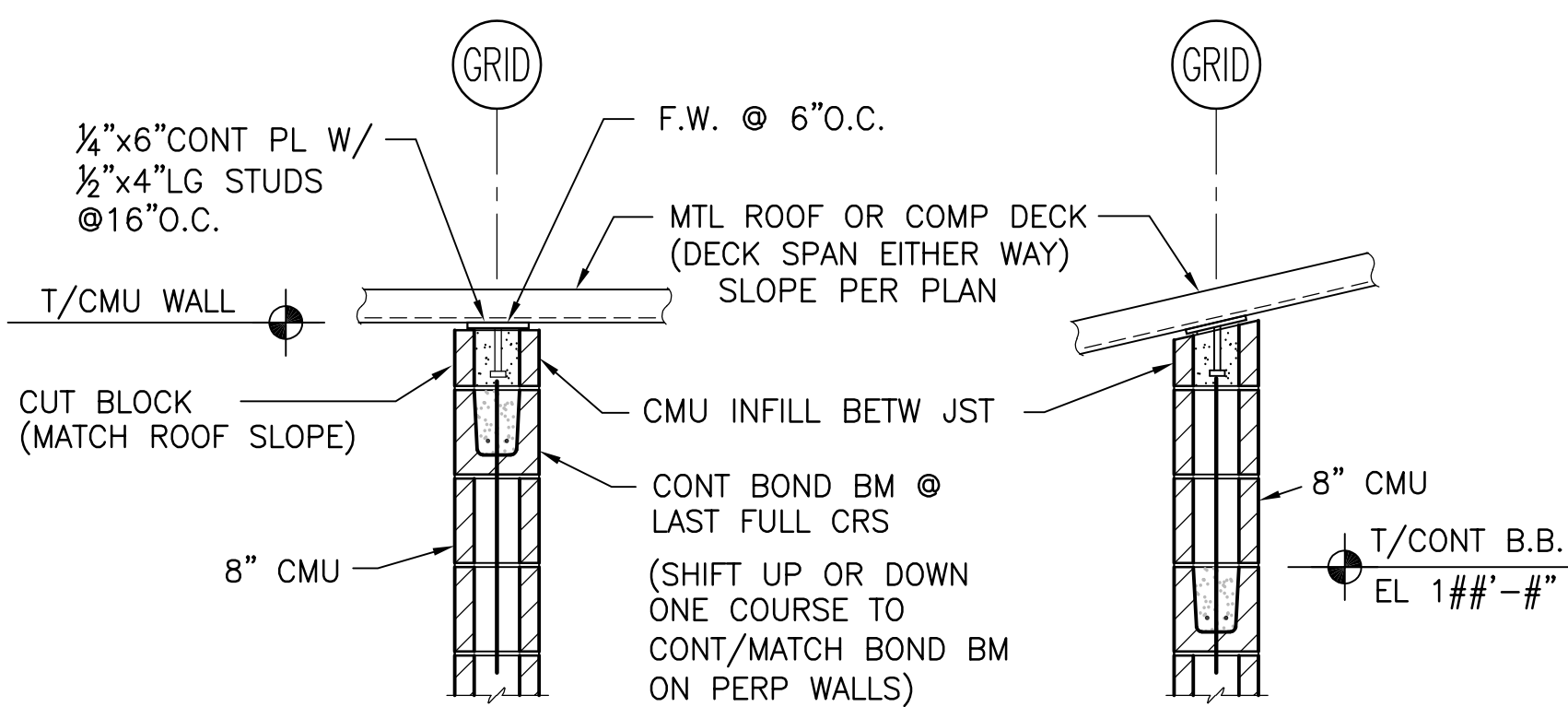




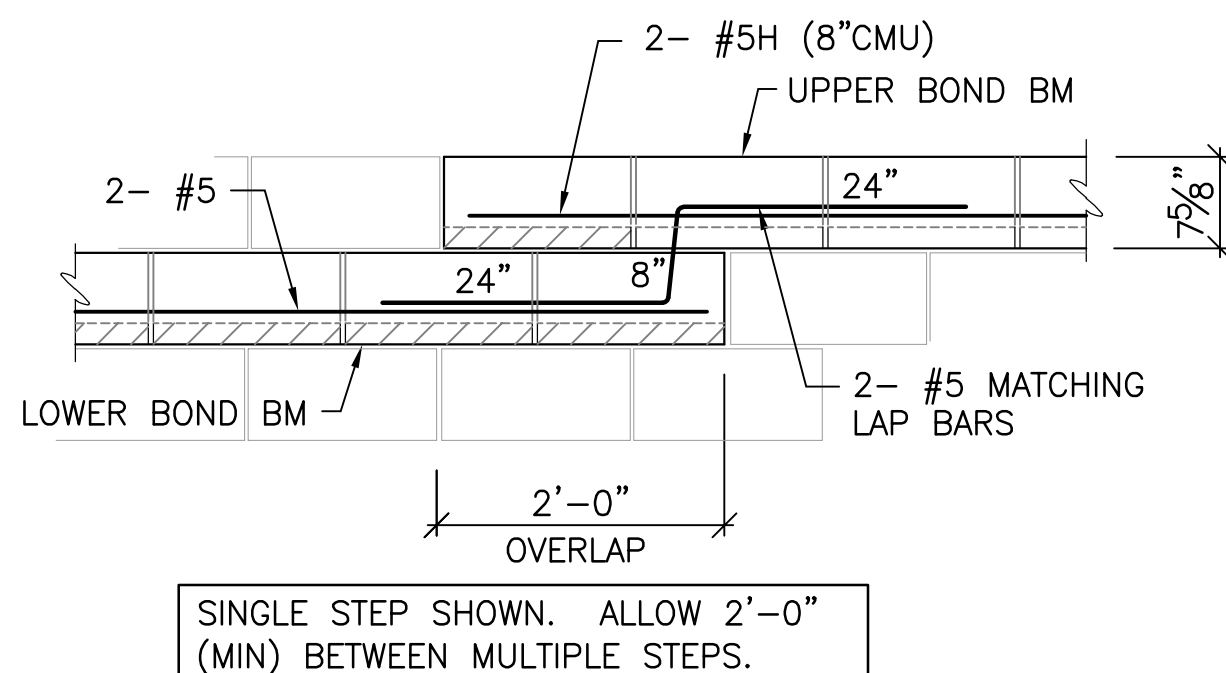




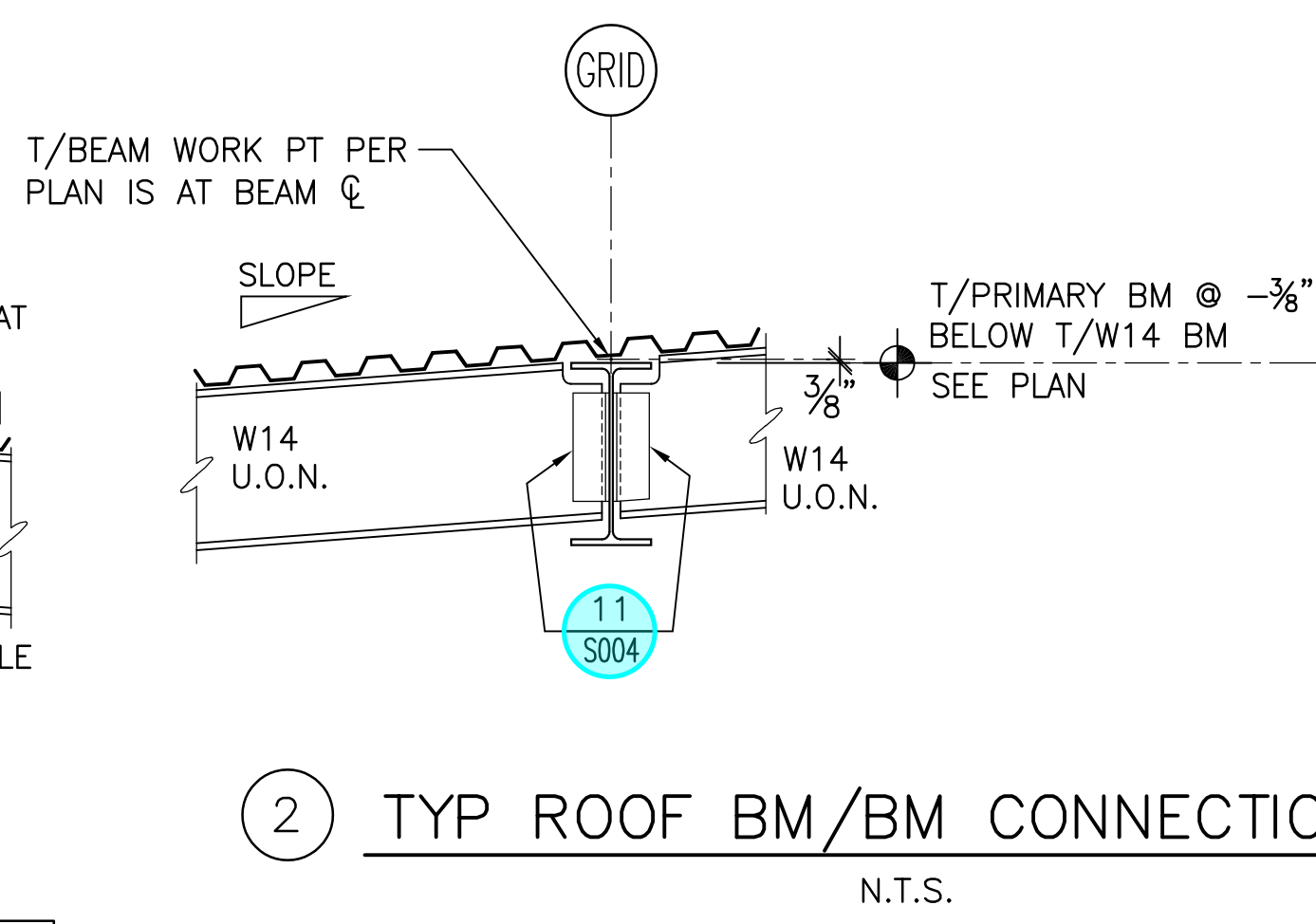
1 TYP BEAM BRG @ CMU WALL  
N.T.S.



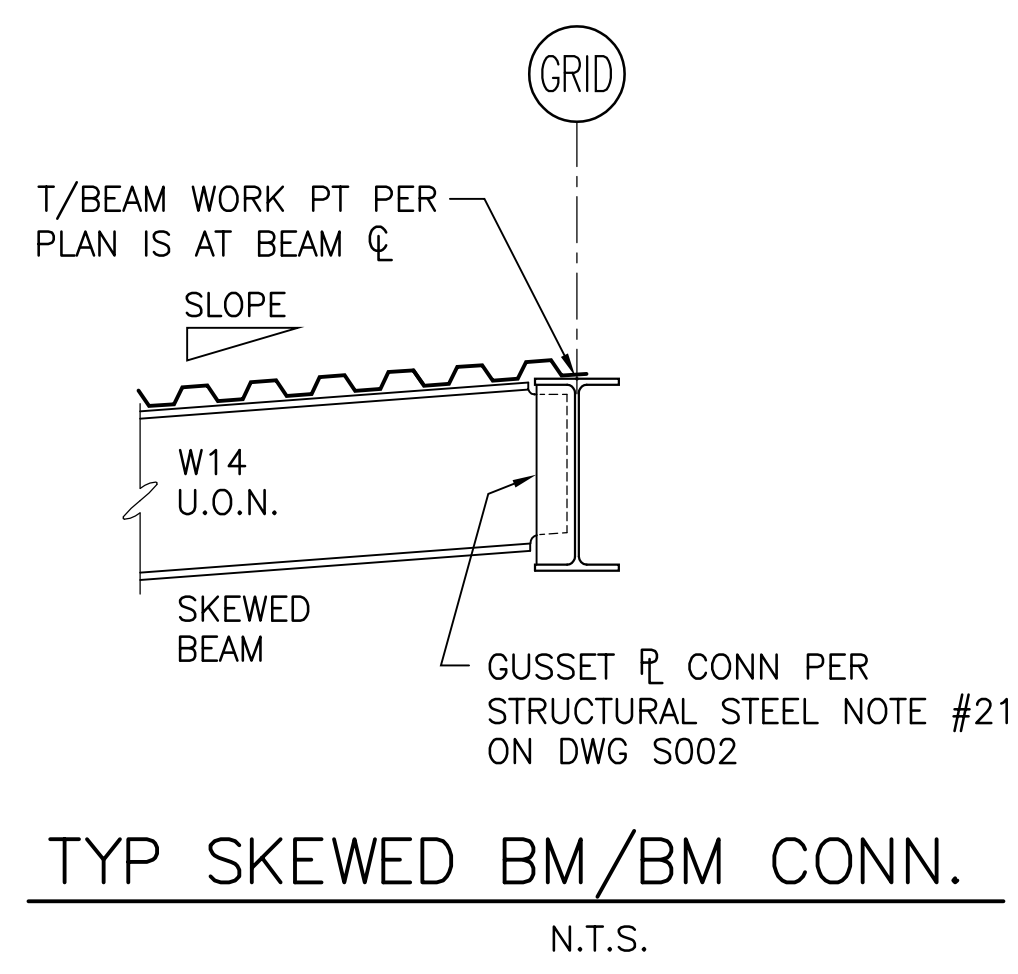
6 TYP MTL DECK/CMU BRG WALL CONN  
SCALE: 3/4" = 1'-0"



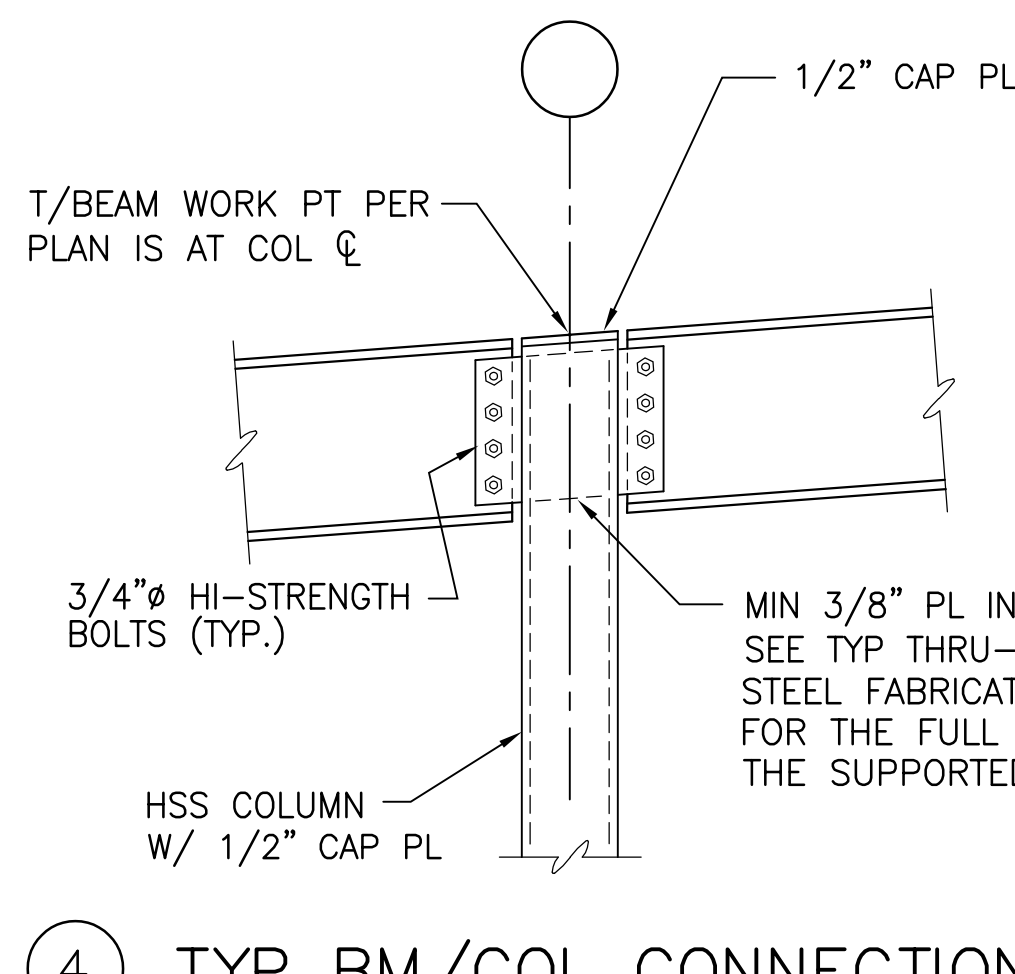
10 CONT BOND BM STEP  
SCALE: 3/4" = 1'-0"



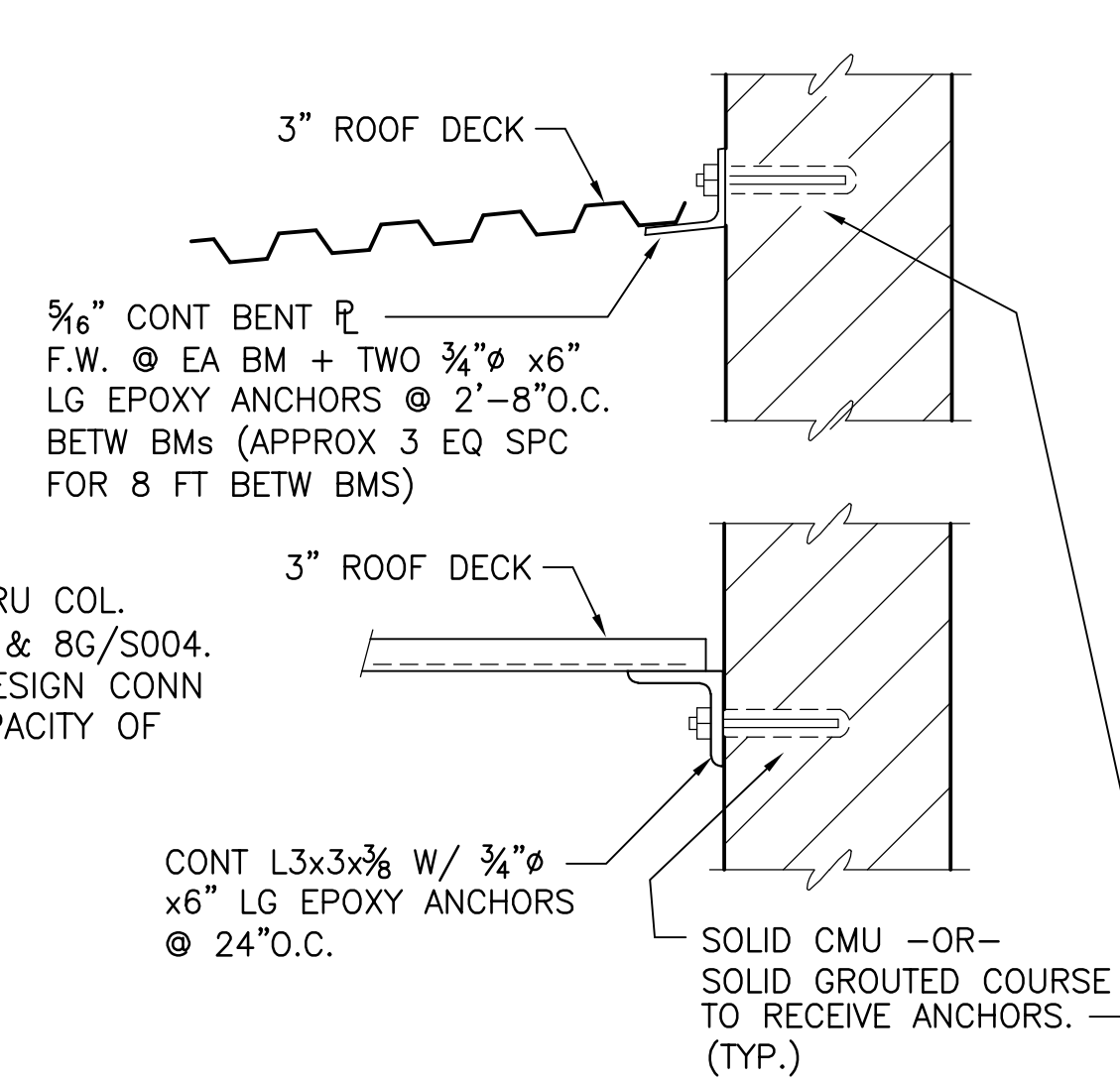
2 TYP ROOF BM/BM CONNECTION  
N.T.S.



3 TYP SKEWED BM/BM CONN.  
N.T.S.

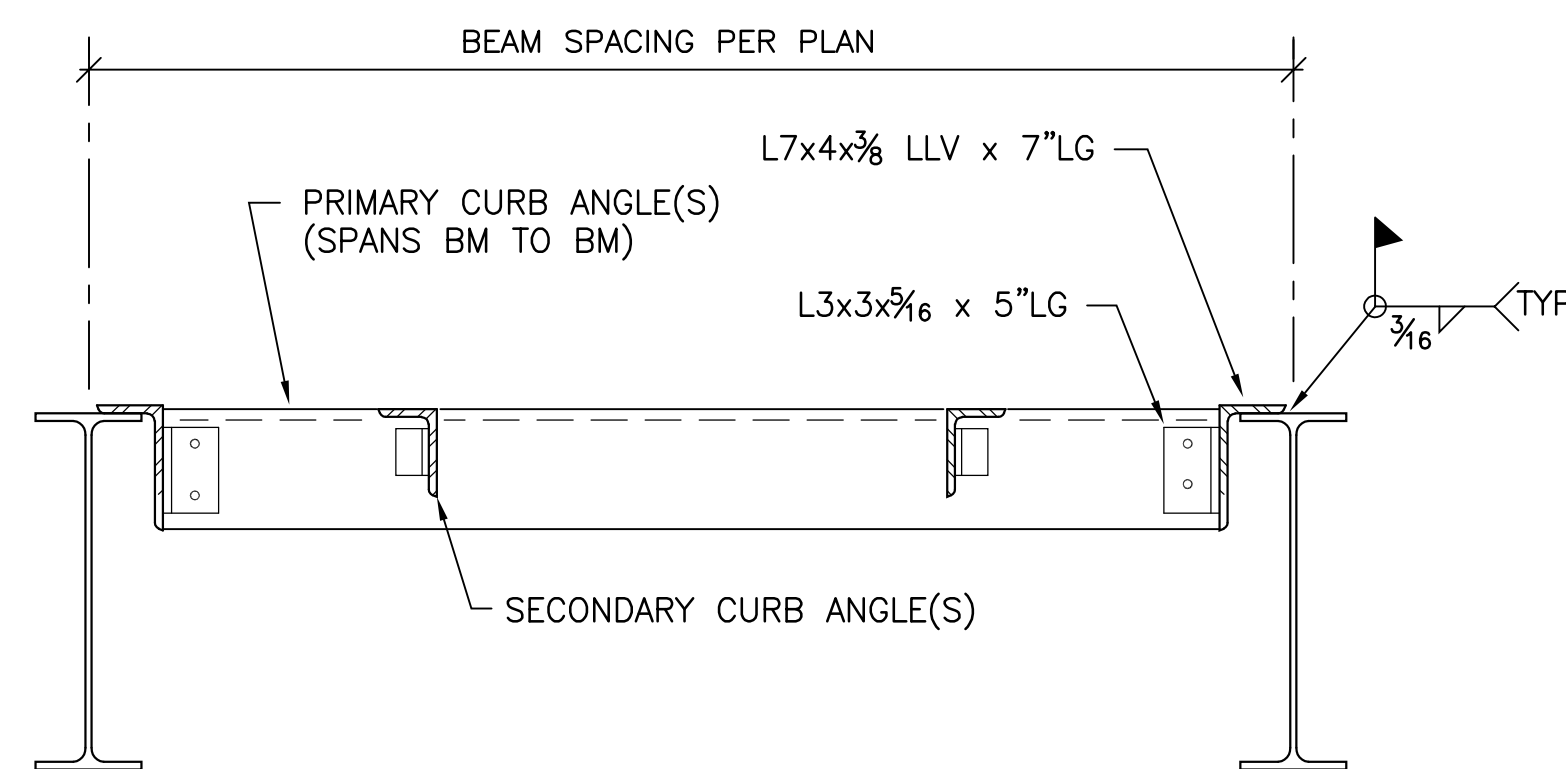


4 TYP BM/COL CONNECTION  
N.T.S.



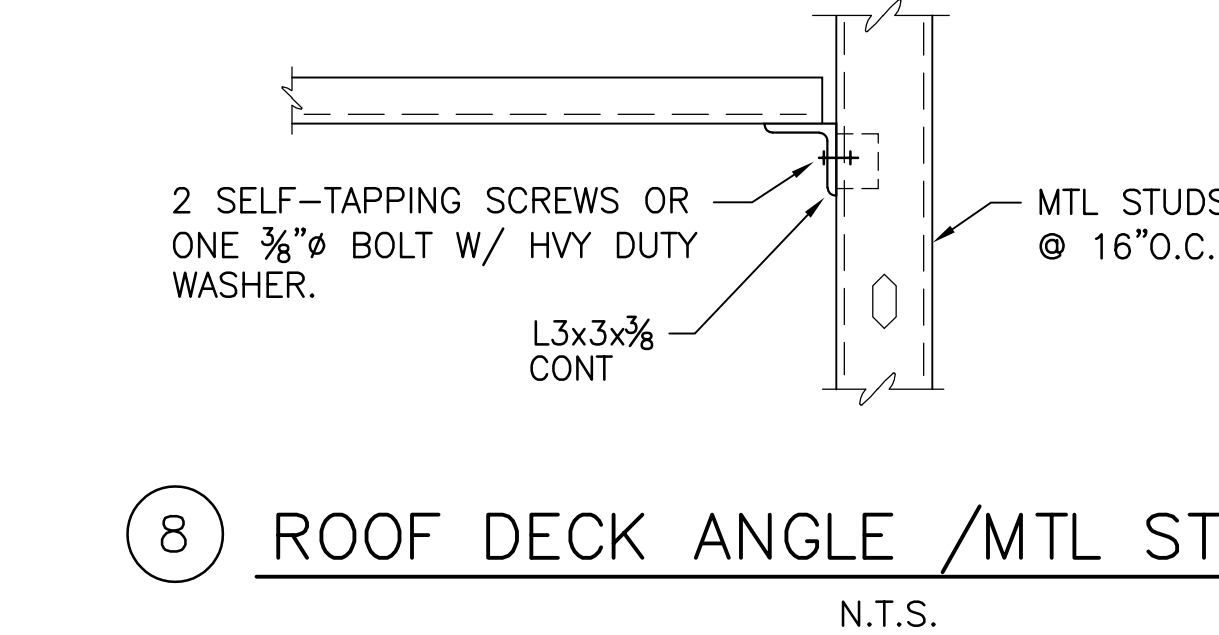
- WHERE ROOF DECK ELEVATION VARIES, PLACE BOTTOM OF BOND BM AT LOWEST ROOF DECK ELEVATION & SOLID GROUT ALL CELLS TO RECEIVE DECK PERIMETER ANCHORS AS THE ROOF DECK SLOPES UP ABOVE THE CONT BOND BM.
- REINFORCE CONT BOND BMS PER MASONRY NOTE #4 ON DWG S001

5 TYP ROOF DECK PERIMETER ANGLE  
N.T.S.

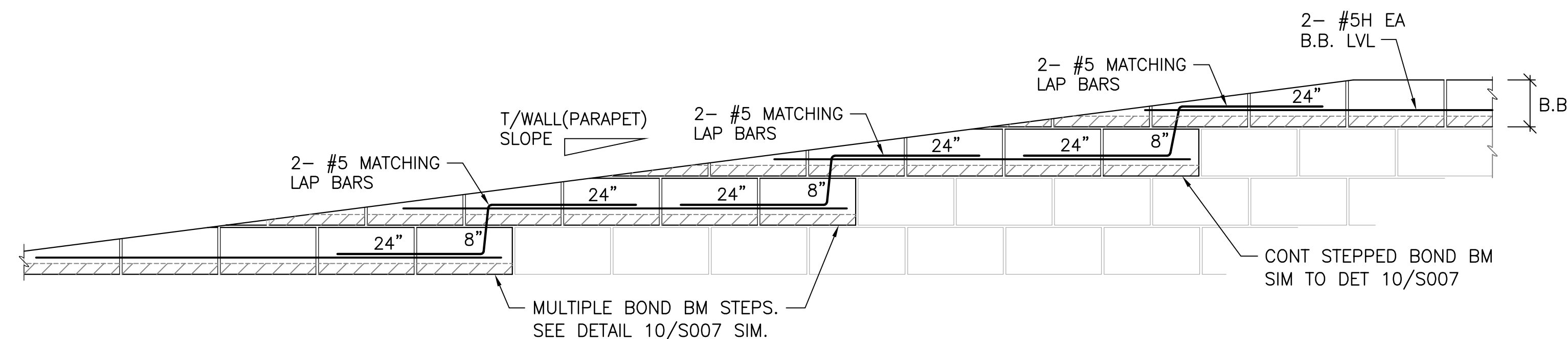


- NOTES:
- PROVIDE L7x4x3/8 LLV PRIMARY CURB ANGLES FOR BM/BM OR BM/WALL. PROVIDE L4x3x3/8 LLV SECONDARY CURB ANGLES FOR ROOF OPNG PENETRATIONS. (TYP U.O.N.) COORD PLACEMENT W/ MECH EQUIP SUPPLIER.
  - DO NOT USE THIS TYP DETAIL FOR MECH EQUIPMENT WT EXCEEDING 750#.
  - PROVIDE SHOP-ASSEMBLED & SHOPWELDED ROOF FRAMES TO DIM'S REQ'D FOR EQUIPMENT OR ROOF HATCH. COORD W/ ARCH. OR MECH.
  - FIELD MEASURE RESPECTIVE BEAM CTR'S PRIOR TO SHOP FAB., PROVIDE CLOSE FIT FOR ALL HEADERS AT ALL LOCATIONS.
  - BOLTED AND WELDED 'SADDLE-TYPE' FRAMES ARE REQ'D FOR CONN OF THE PRIMARY CURB ANGLE ENDS TO THE BM TOP FLANGES.
  - ROOF HATCH: PROVIDE L5x3x3/8 LLV PRIMARY CURB ANGLES & SADDLE ANG'S E.E. PROVIDE L4x3x3/8 LLV SECONDARY CURB ANGLES FOR ROOF HATCH OPNG FRAME. COORD LAYOUT & PLACEMENT W/ ARCH DWGS.

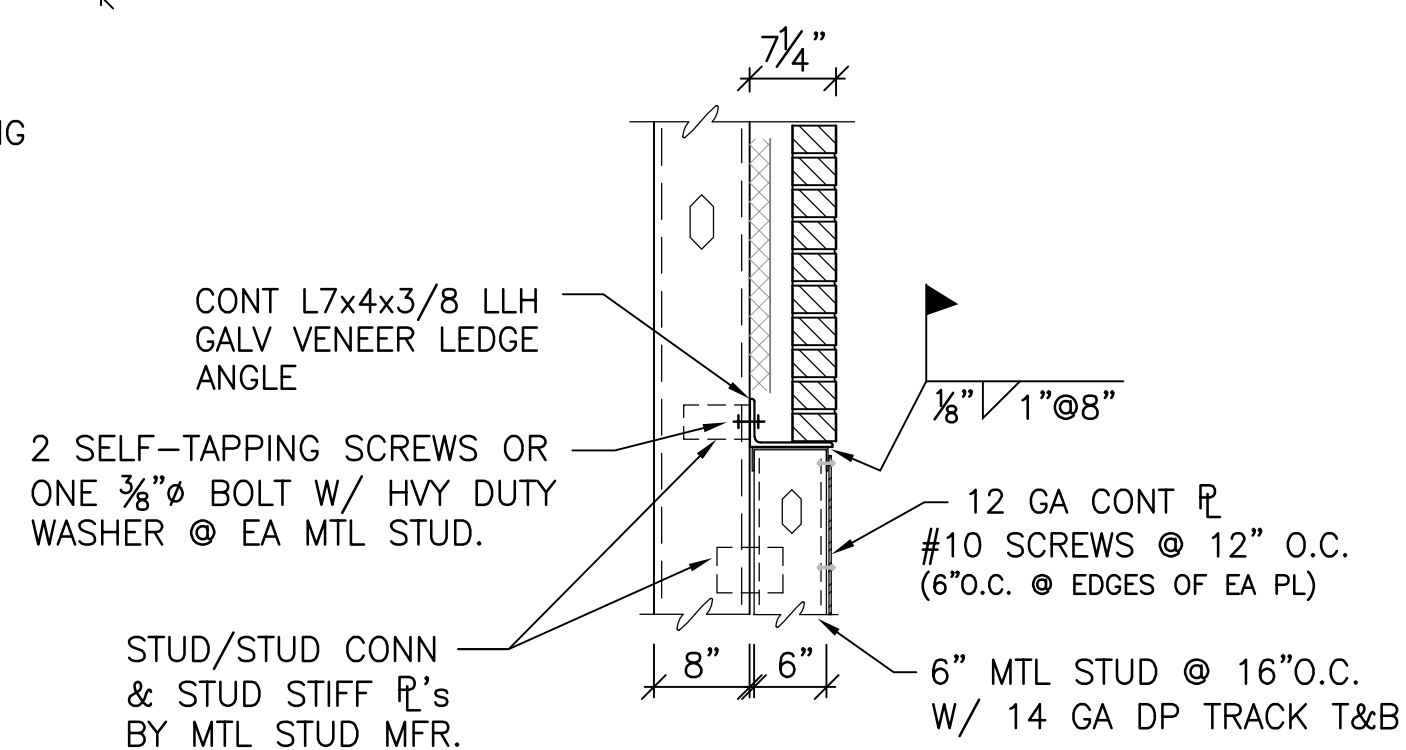
7 TYP MINOR RTU & ROOF OPNG FRMG



8 ROOF DECK ANGLE /MTL STUD WALL  
N.T.S.



9 CONT BOND BM at T/PARAPET  
SCALE: 3/4" = 1'-0"



11 VENEER ANGLE @ STUD WALL  
N.T.S.

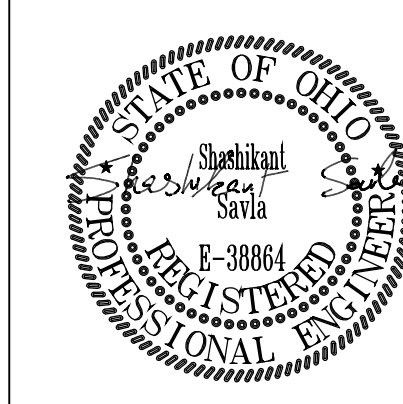
#	DATE	CHANGE DESCRIPTION

**CML KARL ROAD BRANCH**  
5950 KARL ROAD  
COLUMBUS, OH 43229  
FOR  
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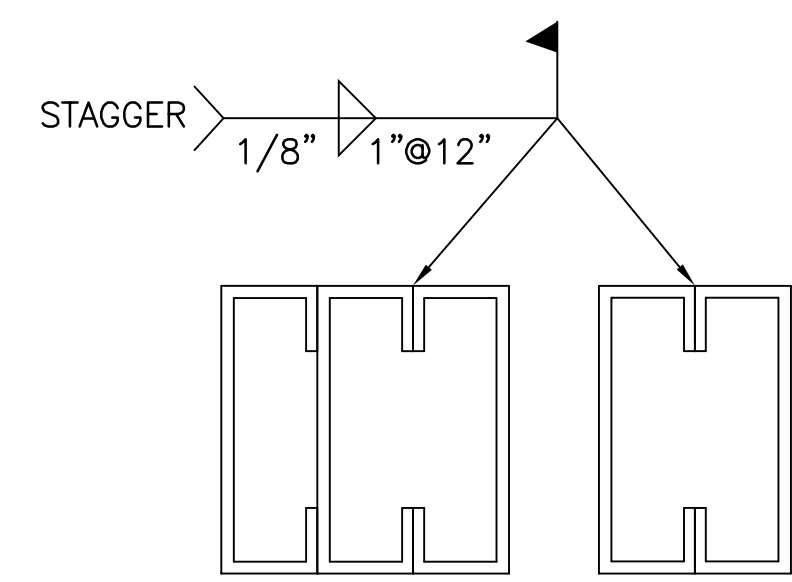
**MOODY-NOLAN**  
300 SPRUCE STREET  
SUITE 300  
COLUMBUS, OHIO 43215  
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**TYPICAL STRUCTURAL SECTIONS & DETAILS**

2/21/2020  
DRAWN BY: AB CHECKED BY: SPS  
18428  
**S007**  
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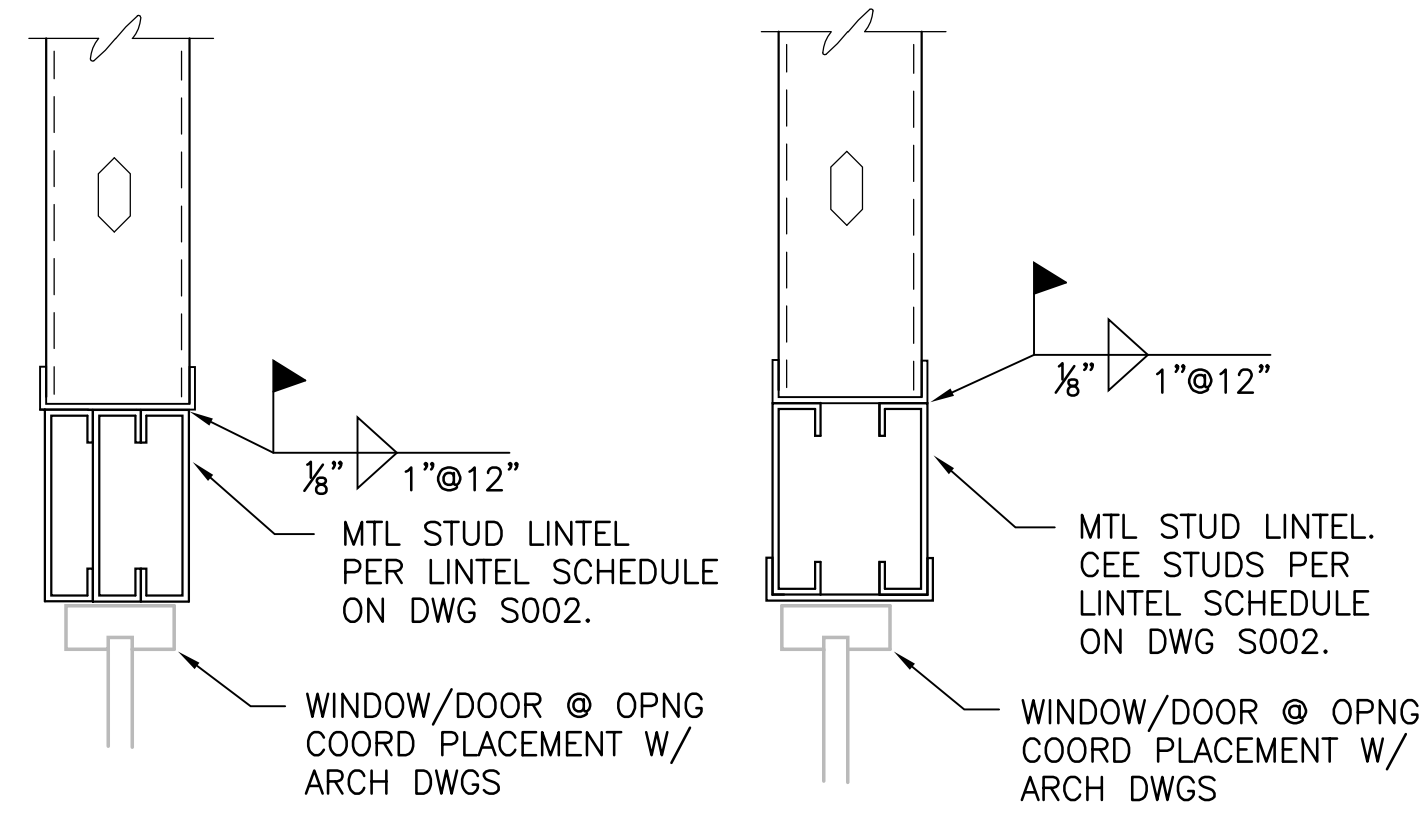


6" MTL STUD WALL : 6x6 POST= 3-600S200-54  
6x8 POST= 4-600S200-54

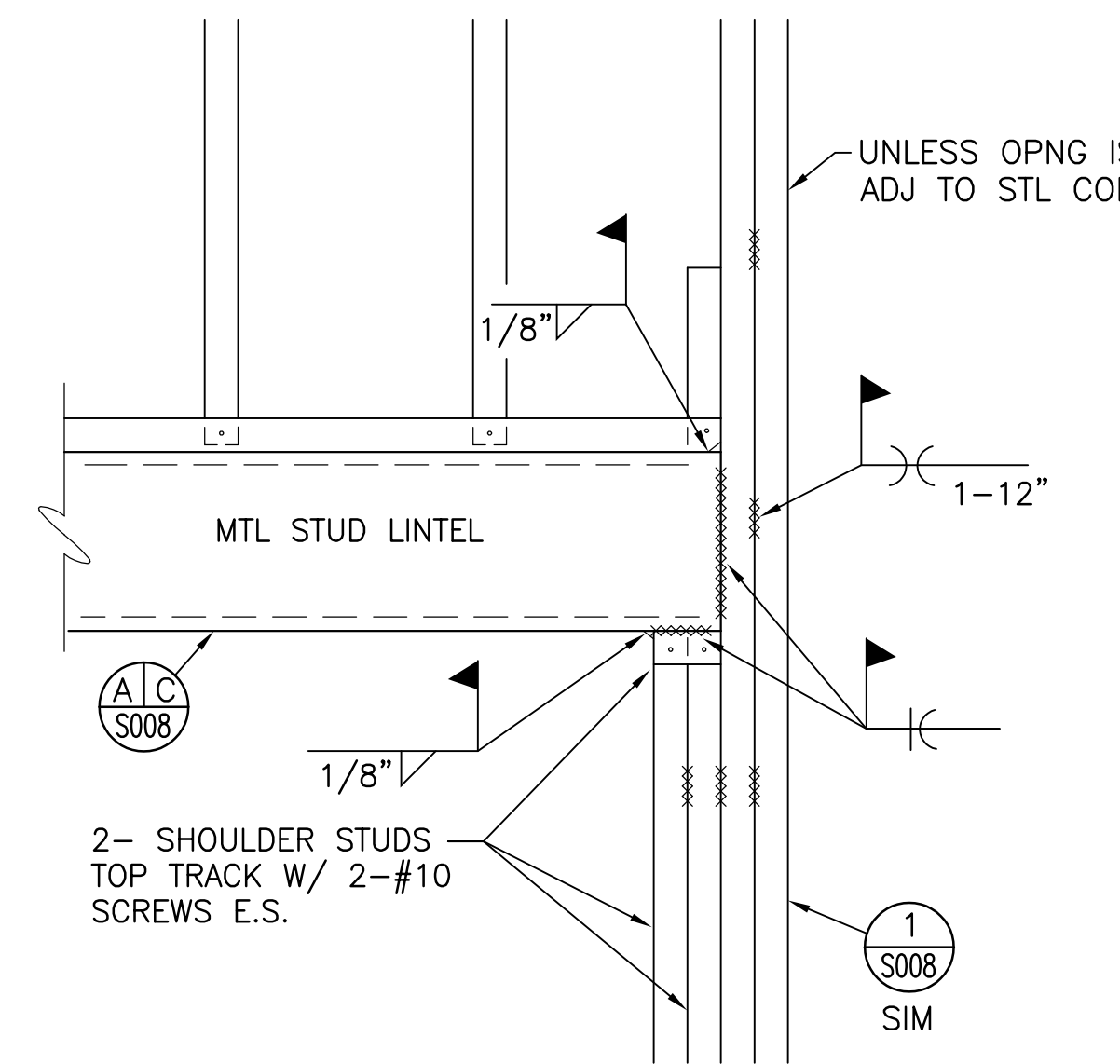
8" MTL STUD WALL : 8x6 POST= 3-800S200-54  
8x8 POST= 4-800S200-54

WELD PATTERN SHOWN FOR BUILT-UP MTL STUD LINTEL PER MTL STUD LINTEL SCHEDULE ON DWG S002.

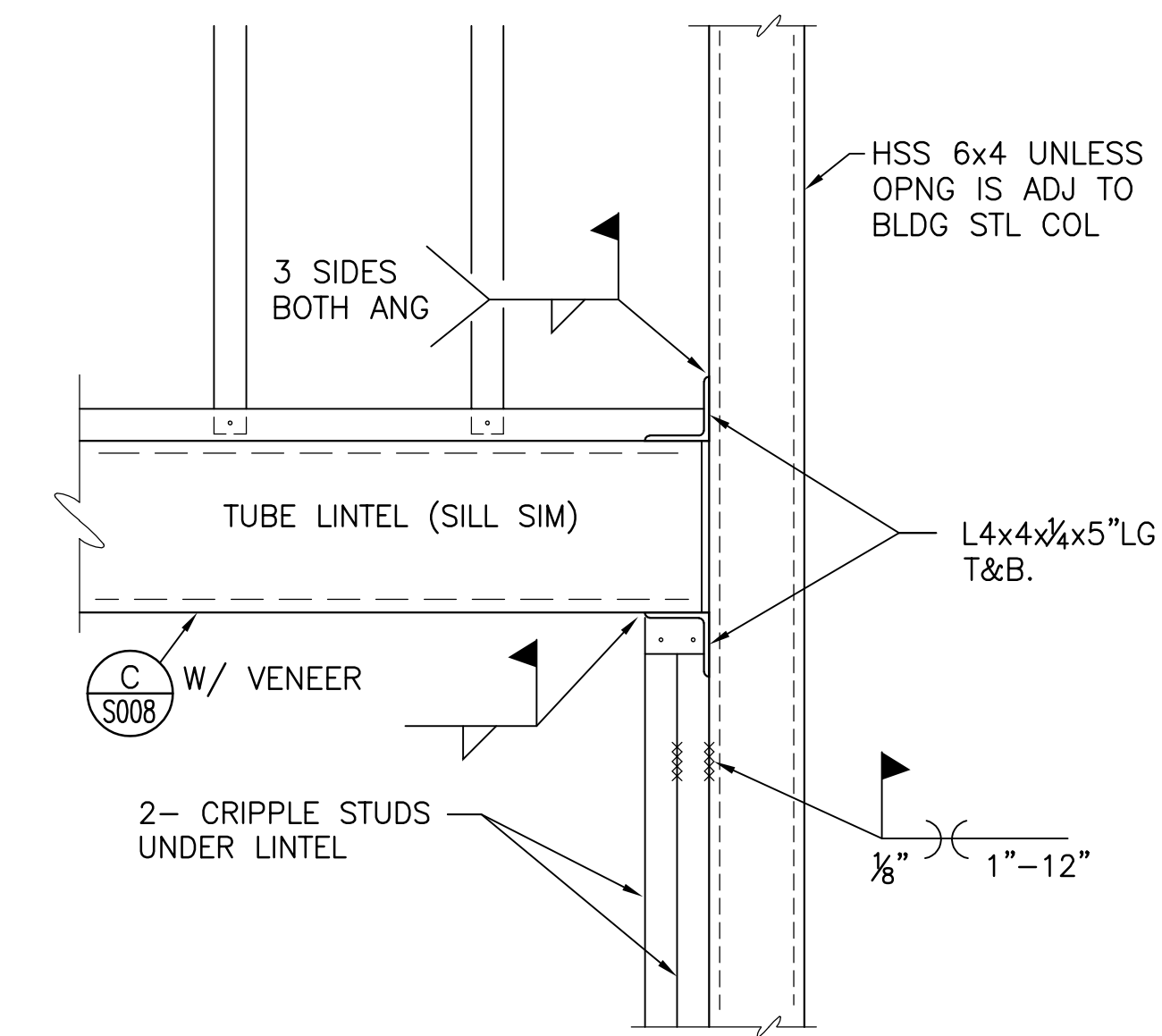
1 TYP BUILT-UP STUD POST/JAMB  
AS REQ'D. N.T.S.



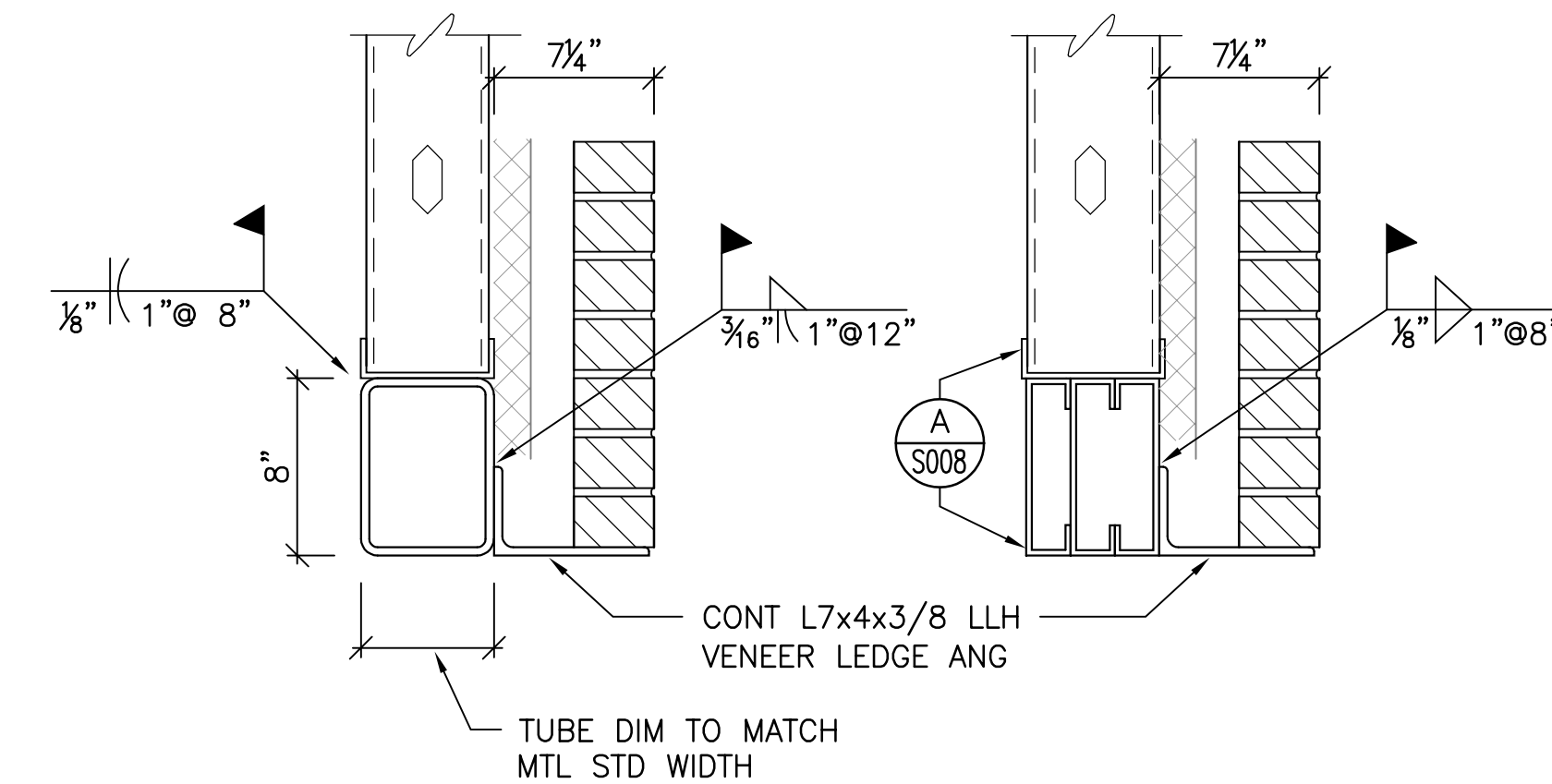
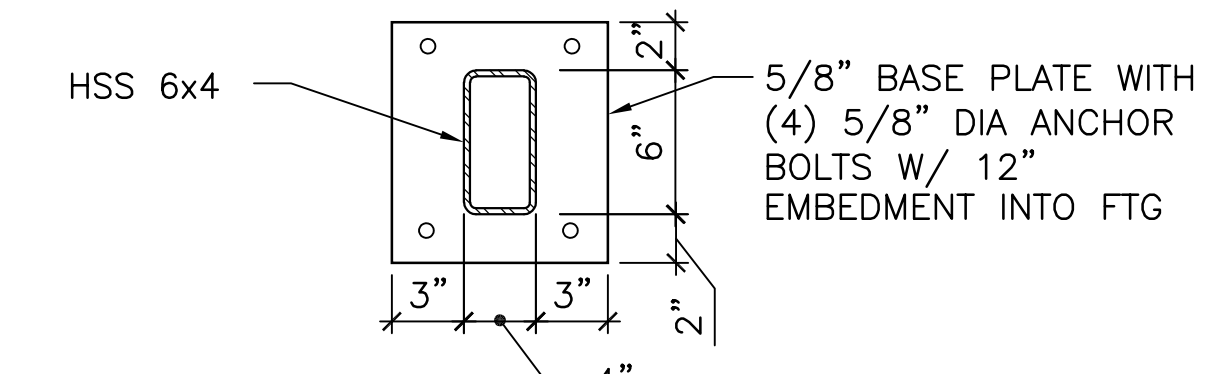
SECTION A - SHORT LINTEL OPTIONS  
SCALE: 1 1/2" = 1'-0"



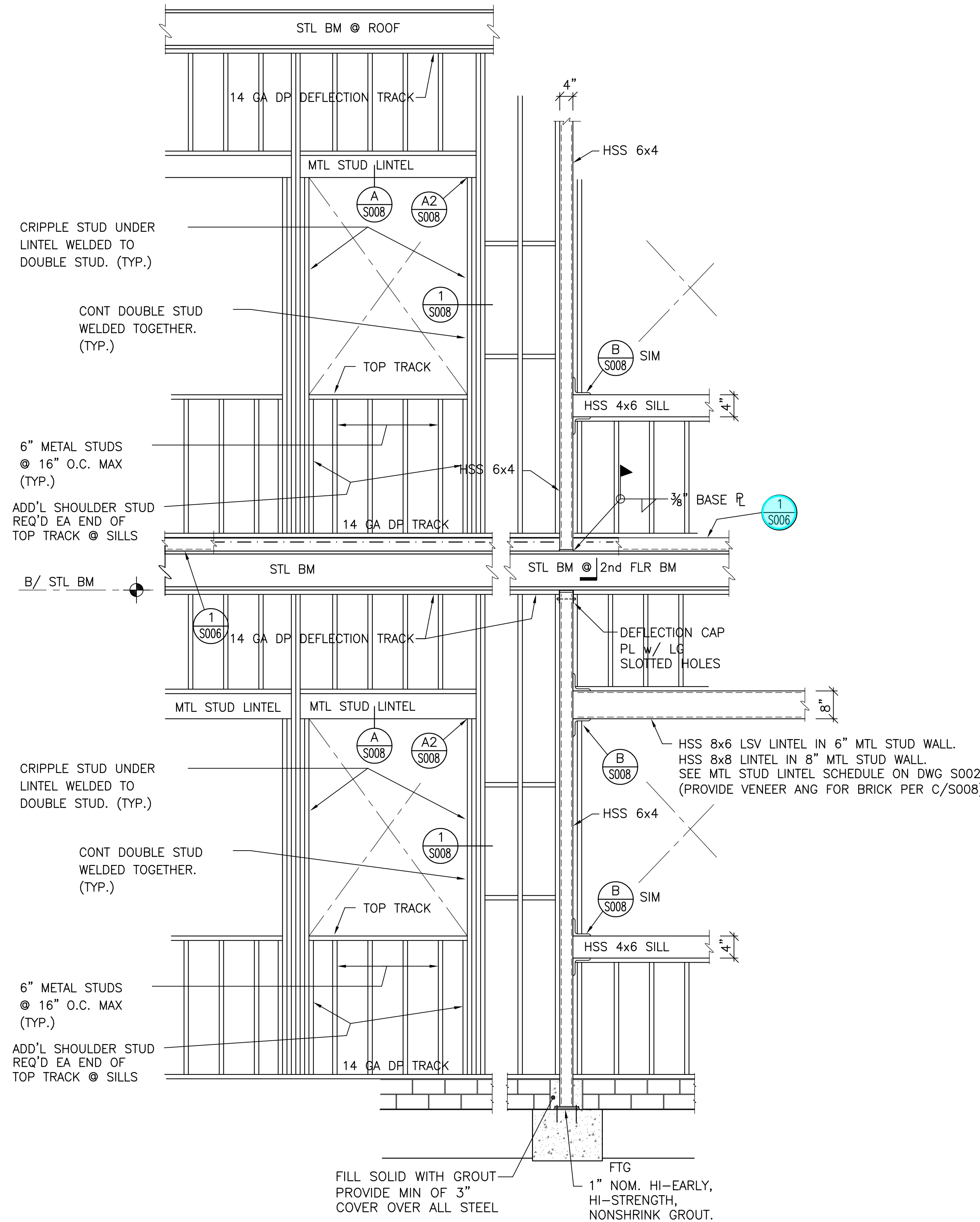
SECTION A2 - SHORT LINTEL <8' LG  
SCALE: 1 1/2" = 1'-0"



SECTION B - LONG LINTEL >8' LG  
SCALE: 1 1/2" = 1'-0"



SECTION C - MTL STUD+VENEER LINTEL  
SCALE: 1 1/2" = 1'-0"



2 TYP EXT WALL OPNG/ STUD FRMG DETAIL  
N.T.S.

**Kabil Associates, Inc.**  
Engineers Architects Planners  
5900 Sharon Woods Boulevard Columbus, Ohio 43229  
Phone: (614) 899-6707 Fax: (614) 899-7503

#	DATE	CHANGE DESCRIPTION

**CML KARL ROAD BRANCH**  
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COLUMBUS, OH 43229  
FOR  
**COLUMBUS METROPOLITAN LIBRARY**

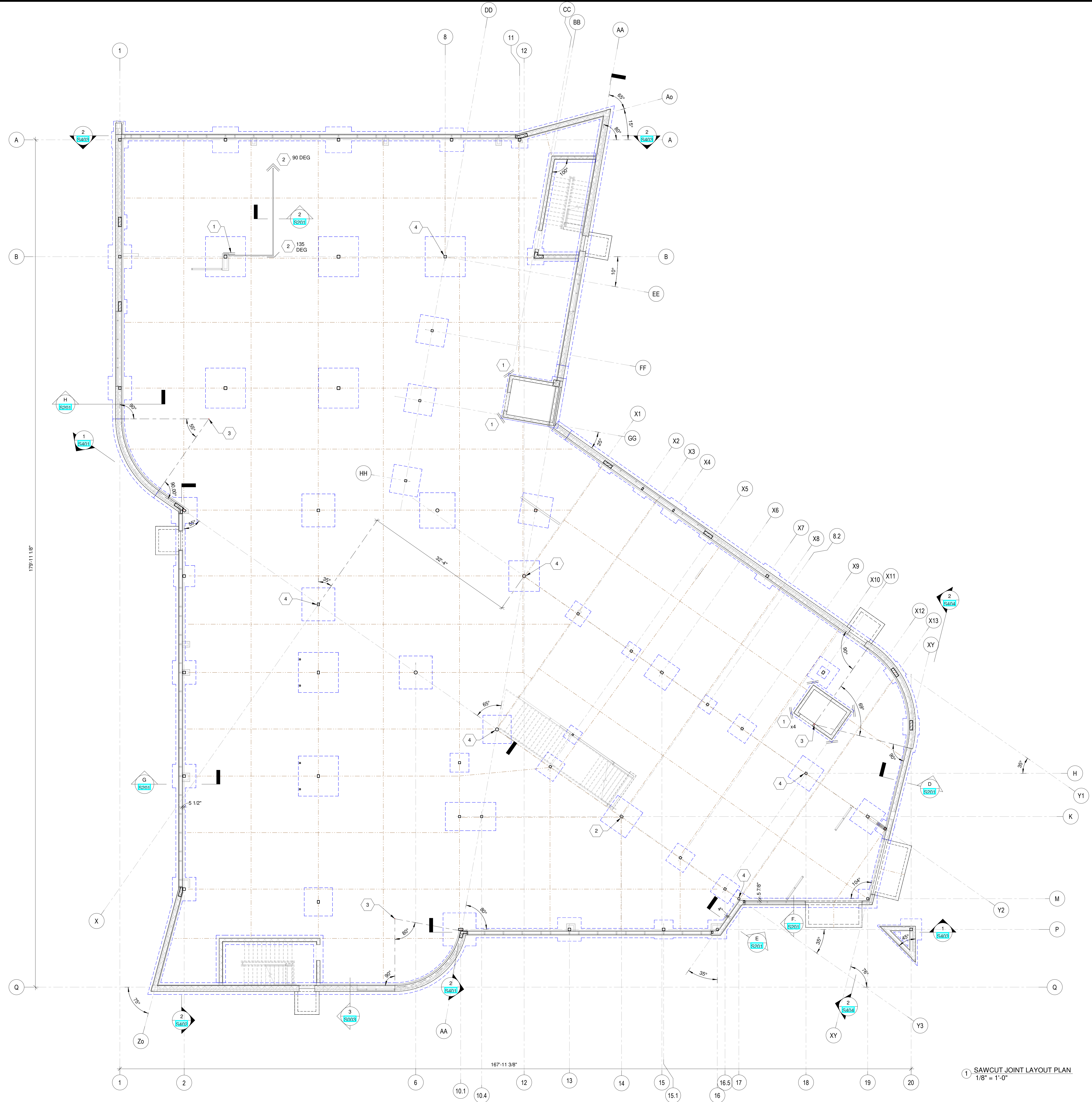
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PHONE: (614) 461-4664  
FAX: (614) 280-8881

TYPICAL STRUCTURAL SECTIONS & DETAILS

2/21/2020  
DRAWN BY: AB CHECKED BY: SPS  
18428  
**S008**  
PERMIT SET







**SLAB JOINT PLAN NOTES :**

- 1) SAWCUT JT & CONSTRUCTION JTs SHALL BE LOCATED AS TO COINCIDE W/ COL CENTERLINES & RE-ENTRANT CORNERS IN SLAB WHEREVER POSSIBLE & ALL CMU DOOR OPNGS. INCLUDE ALL LOCATIONS MARKED FOR 2-#3 x 3'-0" LG. @ 45 DEG IN SLAB FOR ANY RE-ENTRANT CORNERS WITHOUT SAWCUT JOINTS. INCLUDE AN ALLOWANCE OF 60 LF OF #3 REBAR FOR RE-ENTRANT CORNERS. \*\*\*\* APPROX JOINT LAYOUT SPACED IN SQUARISH GRIDLIKE PATTERN OF 13 FT TO 15 FT MAX SPACING AS SHOWN ON DWG S100. \*\*\*\* SUBSTITUTE A CONSTRUCTION JT IN LIEU OF A SAWCUT JT WHEREVER SEPARATE CONC POURS OCCUR. SEE DETAIL 1/S003.
- 2) CONT THK SLABS UNDER NON-BRG CMU WALLS NOT SHOWN FOR CLARITY.

**KEYNOTES :**

- 1) LOCATIONS MARKED FOR 2-#3 x 3'-0" LG. @ 45 DEG IN SLAB FOR ANY RE-ENTRANT CORNERS WITHOUT SAWCUT JOINTS. INCLUDE AN ALLOWANCE OF 60 LF OF #3 REBAR FOR RE-ENTRANT CORNERS.
- 2) 2-#3x3'-0" LG BARS IN SLAB BENT TO THE ANGLE SHOWN ON PLAN.
- 3) COORD CURVED WALL PLACEMENT & RADII W/ ARCH DWG DIMS.
- 4) WORK POINT / CONTROL PT OF 4 OR MORE INTERSECTING GRIDLINES.

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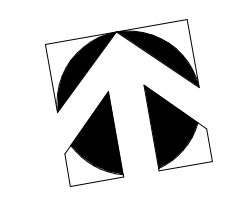
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**SAWCUT JOINT LAYOUT PLAN**

2/21/2020  
DRAWN BY: AB CHECKED BY: SPS  
18428  
**S100**  
PERMIT SET

1 SAWCUT JOINT LAYOUT PLAN  
1/8" = 1'-0"











**2nd FLOOR FRAMING KEYNOTES:**

- 1 5 1/2" CONC ON 2" DP (20 GA) COMPOSITE DECK REINF W/ 6x6xW2.9/W2.9 T/CONC EL 114'-0" TYP. T/STL BM EL 113'-6 1/2" U.O.N.
- 2 STAIR LANDING: 4" CONC W/ 6x6xW2.9/W2.9 WWF + FIBRILLATED POLYPROPYLENE FIBER ON 1 1/2" COMPOSITE MTL DECK. RECONFIRM STL ELEVATIONS OF INTERMEDIATE LANDINGS W/ ARCH DWGS. SEE GENERAL STAIR PLAN 10S006 & SECT A-K/S006.
- 2b MAIN STAIR: BOTH STRINGERS SHALL BE HSS 12x3x5/16. MIDDLE LANDING: 3" CONC W/ 6x6xW2.9/W2.9 WWF + FIBRILLATED POLYPROPYLENE FIBER ON 3/4" DP - 24 GA FORM DECK PER SECTIONS B & L/S006.
- 3 WF BM AS NOTED W/ A CONT BOTTOM PL LINTEL CONFIGURATION. PROVIDE 5/16" CONT BOTTOM PL FOR W8-W12 BMS UNLESS DETAILED OTHERWISE. PROVIDE 3/8" CONT BOTTOM PL FOR W14 OR LARGER BMS. SEE TYP INSTALLATION OF BM IN CMU WALL PER DWG S0003 & EXCEPT FOR BM OVERRIDE. SEE LINTEL SCHEDULE FOR REMAINING INFO. REINF CMU W/ # 5 @ 32" O.C. (PLUS CORNERS, INTERSECTIONS & JAMBS) ABOVE LINTEL BM.
- 4 WF BM AS NOTED IN CAVITY WALL LINTEL CONFIGURATION PER TYP CAVITY WALL LINTEL DETAILS ON DWG S005. EXCEPT FOR BM OVERRIDE, SEE LINTEL SCHEDULE FOR REMAINING INFO.
- 5 MTL STUD EXT WALL LINTEL W/ CONT L6x4x3/8 LHH VENEER LEDGE ANGLE PER DETAIL 4S008.
- 6 COL PASS THRU CONC FLR DECK W/ DECK SUPPORT ANG'S ON 3 SIDES PER DETAIL 4S003 SIM.
- 7 SINGLE STORY COL BELOW
- 7b SINGLE STORY COL BELOW BM PER DETAIL 10S004.
- 8 COL UP FROM 2ND FLR BM PER DETAIL 10S004.
- 9 SINGLE STORY CMU BRG WALL UP TO EL 113'-6 1/2" PER 6S007. PROVIDE BM BRG PL FOR EACH W16 FLR BM THEN CANTILEVER SOUTHEAST BM ENDS TO SUPPORT W24 BM ALONG GRIDLN 20.
- 10 HSS 6x4x5/16 POSTS E.S. AS WINDOW JAMBS FOR ALL WINDOWS > 7'-11" WIDE. HSS 8x6x5/16 LSV LINTEL W/ HSS 4x6x5/16x2x1 1/2x1/4 SILL. PROVIDE DEFLECTION CAP PLATE AT ROOF BM BOTTOM FLANGE. COORD W/ ARCH DWGS / WDW SCHEDULE.
- 11 HSS 8x6x5/16 LSV LINTEL W/ HSS 4x6x5/16x2x1 1/2x1/4 SILL FOR RIBBON WINDOW W/ STL COLUMNS AS JAMBS. PROVIDE DEFLECTION CAP PLATE AT ROOF BM BOTTOM FLANGE. COORD W/ ARCH DWGS / WDW SCHEDULE.
- 12 LINTEL REQ'D FOR MECH DUCT PASSAGE. COORD LINTEL LENGTH & ELEVATION W/ MECHANICAL DWGS. SEE TYPICAL MECH OPNG COORD DETAIL 8S005 UNLESS A MECH DUCT OPNG MUST OCCUR DIRECTLY BELOW A BM WHERE DETAIL 9A & 9b/S005 APPLIES INSTEAD.
- 13 CANTILEVERED BM END TO SUPPORT W16 EDGE BM W/ FULL-STRENGTH CONN TO BE DESIGNED BY FABRICATORS OH P.E.
- 14 BOND BM LINTEL OVER BOOK DROP OPNG. COORD LINTEL ELEV. PLACEMENT & LENGTH W/ ARCH DWGS.
- 15 HSS 6x6x3/8 GALV CURTAIN WALL LINTEL HUNG FROM EA 2nd FLR BM. COORD LINTEL ELEV & LENGTH W/ ARCH DWGS.
- 16 MITER & F.W. BOTH HSS 6x6 LINTEL TUBES @ CORNER. PROVIDE CONN TO CORNER COL @ GRIDLN6 MXY/19 PER DETAIL 1S301.

**FLOOR FRAMING PLAN NOTES:**

- 1 ALL ELEV GIVEN THUS (F'-IN) ARE TOP OF STL BEAMS & TOP OF FLAT JOIST. ALL ELEV VALUES GIVEN EA END OF JOISTS ARE TOP OF JOIST ELEVATIONS WHEN K-JOISTS ARE SLOPED.
- 2 TOP OF 2ND FLOOR SLAB @ EL 114'-0" (U.O.N.) TOP OF 2ND FLR BMS @ EL 113'-6 1/2" (U.O.N.) TYP FLOOR CONSTRUCTION IS 5 1/2" CONC W/ 6x6xW2.9/W2.9 WWF ON 2" - 20 GA COMPOSITE DECK.
- 3 SEE ARCHITECTURAL DWGS FOR ALL ADDL DIMS & ELEVATIONS.
- 4 SEE MTL STUD LINTEL SCHEDULE ON DWG S002.
- 5 T/STL @ LITELS TO BE COORDINATED W/ STRUCTURAL DETAILS & ARCHITECTURAL SECTIONS & SCHEDULES PRIOR TO SHOP DWG SUBMITTAL.
- 6 COORDINATE ALL DOOR, WINDOW & WALL OPNG LINTEL LENGTH & ELEVATIONS W/ ARCH DWGS. SIZE ALL LITELS USING LINTEL SCHEDULE & NOTES ON DWG S002 UNLESS AS MARKED ON PLAN OTHERWISE. FOR EXAMPLE, ANY MULTI-ANGLE LINTEL BY DEFAULT SHALL UPSIZED WHEN MARKED AS "W8 LINTEL" ON PLAN. SEE LINTEL SCHEDULES & LINTEL DETAILS FOR ADDL PLATE/ANGLE COMPONENTS SIZES AND BRG PL & BRG LENGTH REQUIREMENTS FOR A W8x18 LINTEL.
- 7 ADDL LITELS REQ'D FOR DUCTS & LOUVERS THRU WALLS. CONTRACTOR TO PROVIDE & INSTALL LITELS AS REQ'D. COORDINATE LENGTH & ELEVATION OF LITELS W/ MECH, ELECTR & PLUMB DWGS. SIZE LITELS USING SCHEDULE & NOTES ON DWG S005.
- 8 REQUIRED CONT BOND BEAM PLACEMENT IS MARKED ON PLAN BUT ADDL BOND BEAMS ARE DEPICTED IN DETAILS. CONTINUE ALL CMU WALL VERT REINFORCING BARS THRU BOND BMS. PROVIDE CONT 8" H. BOND BM @ CMU WALLS WHICH HAVE BLDG PARAPETS. (TYP.)
- 9 ALL REQUIRED STEEL MEMBERS ARE NOT SHOWN ON THE PLAN DRAWINGS. REFER TO STRUCTURAL DETAILS & SECTIONS TO DETERMINE REQUIREMENTS OF ADDL STL ANGLES & PLATES. SEE ARCH DWGS FOR ADDL MISC STL.

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#	DATE	CHANGE DESCRIPTION
3	08/18/2020	Bulletin #5
4	01/29/2021	Bulletin #6

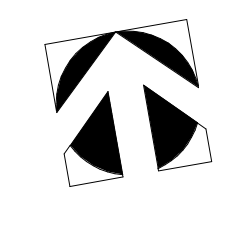
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**SECOND FLOOR FRAMING PLAN**

8/18/2020  
 DRAWN BY: AB CHECKED BY: SP5  
 18428  
**S102**

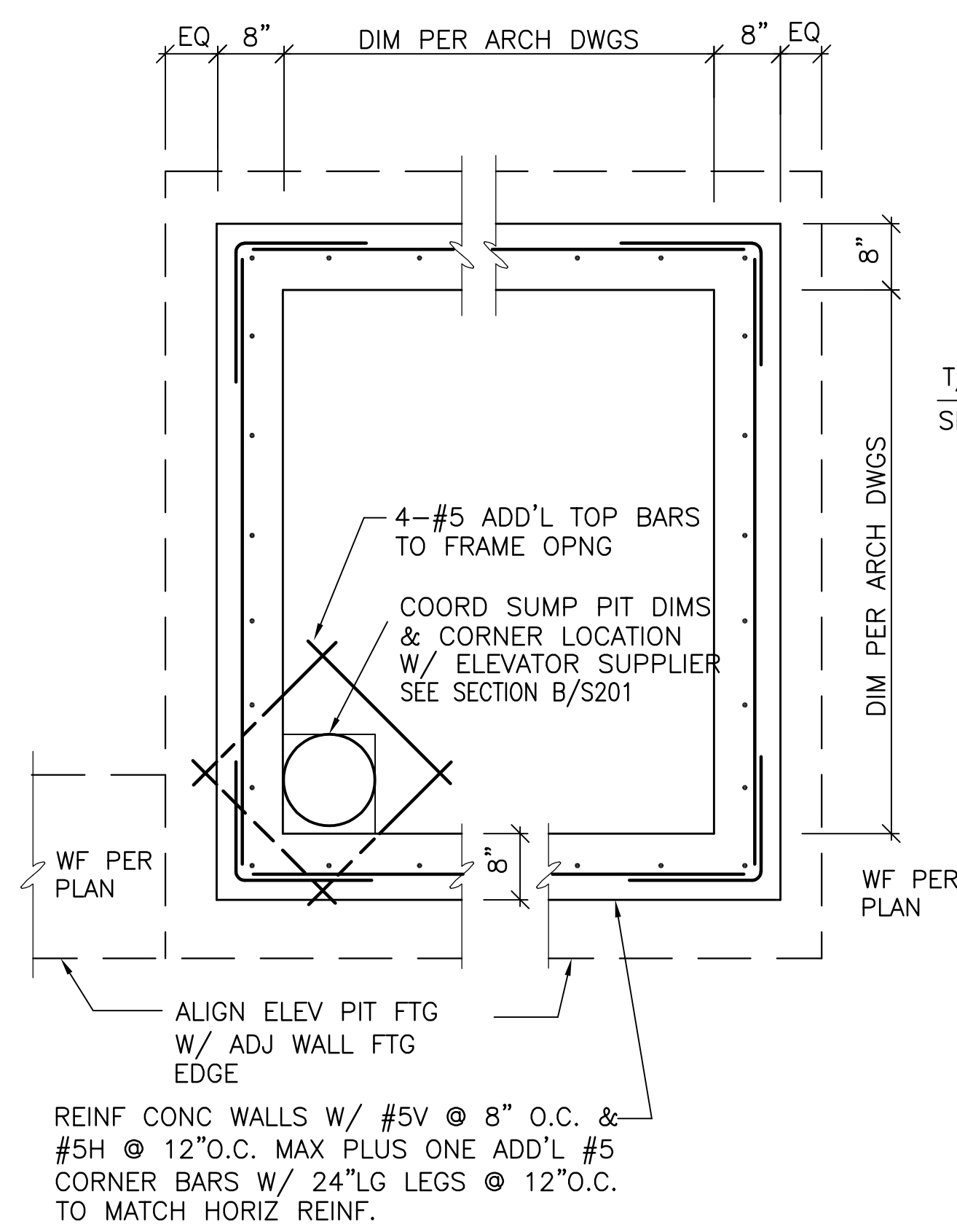
**1 SECOND FLOOR FRAMING PLAN**  
 1/8" = 1'-0"



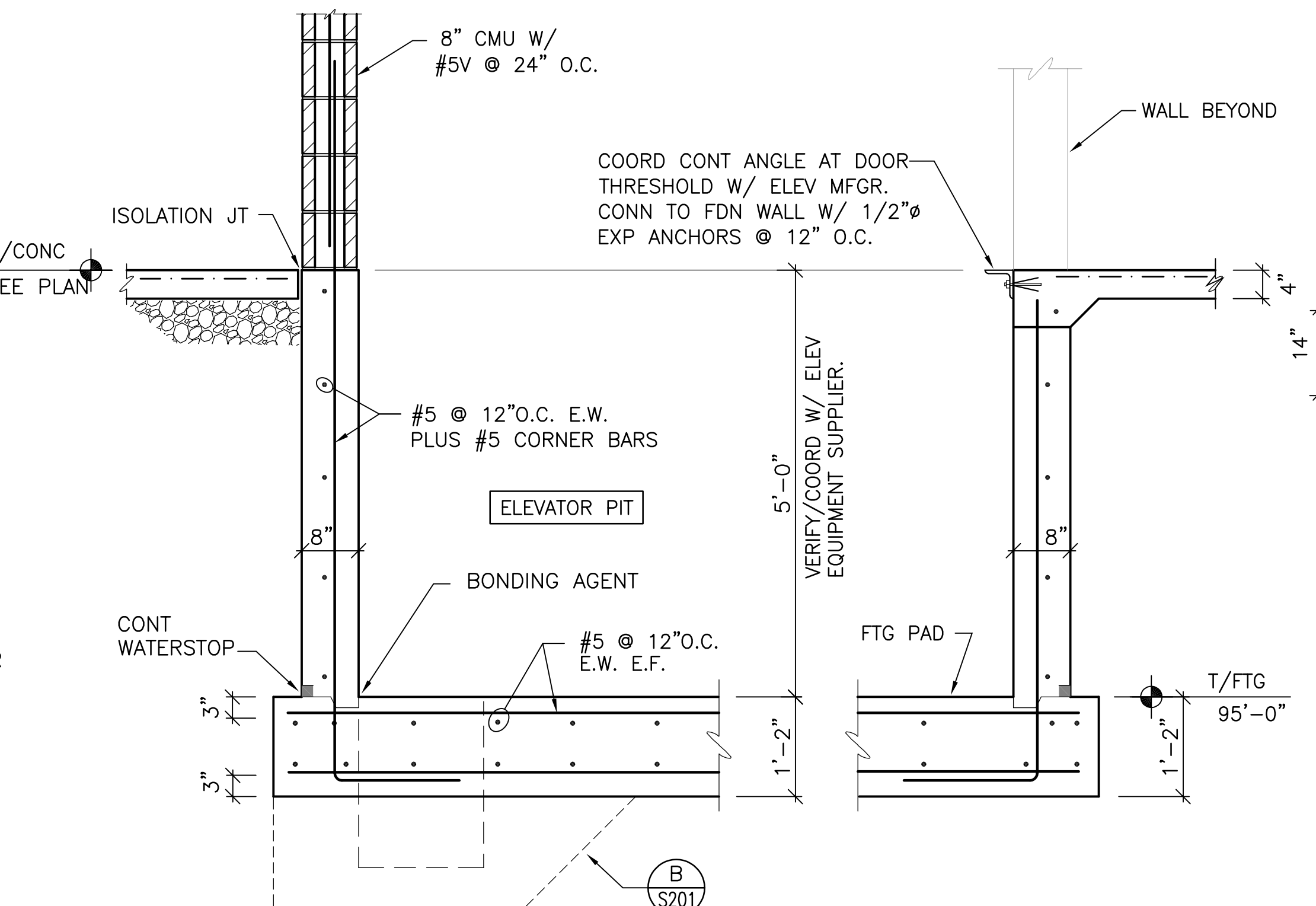




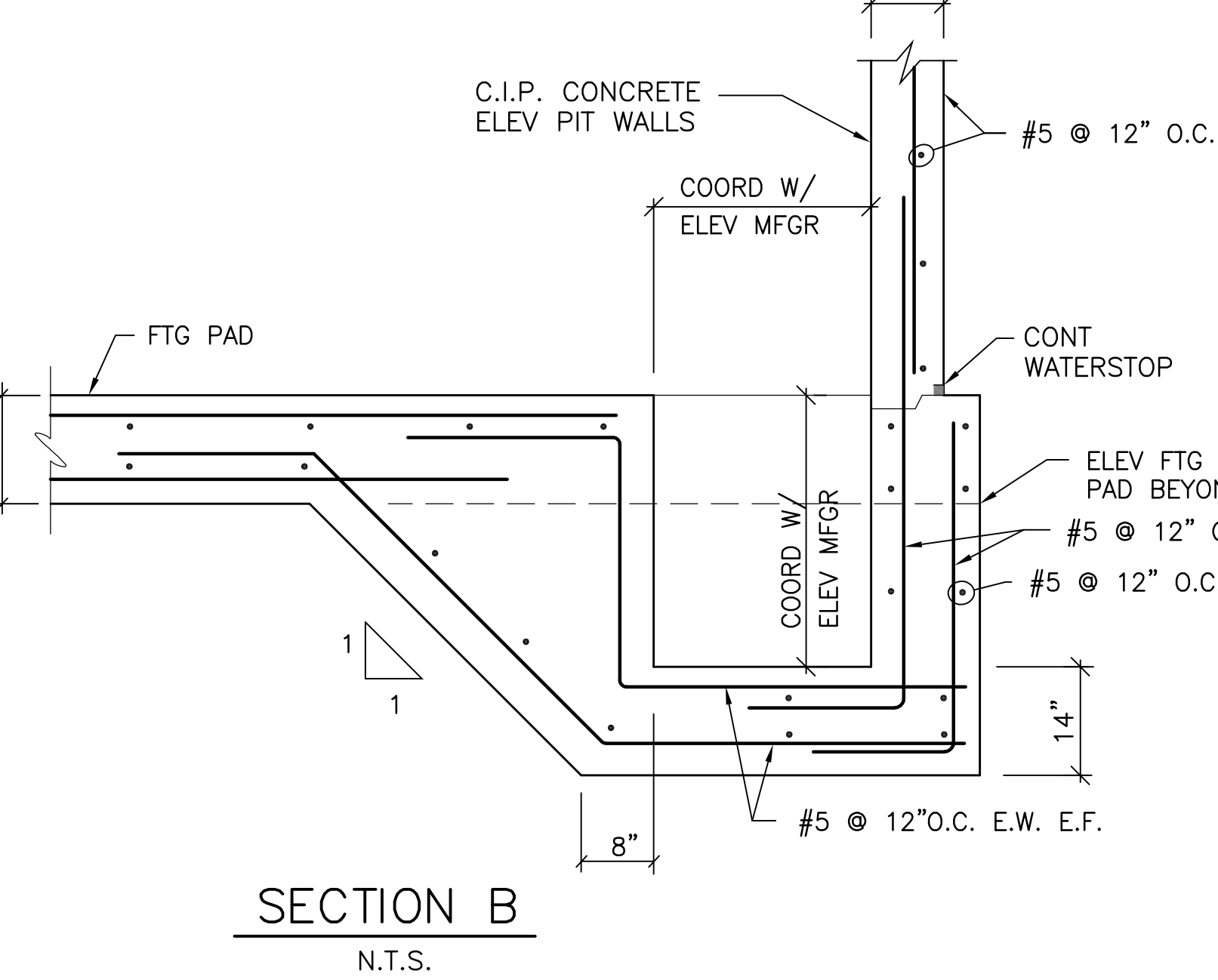




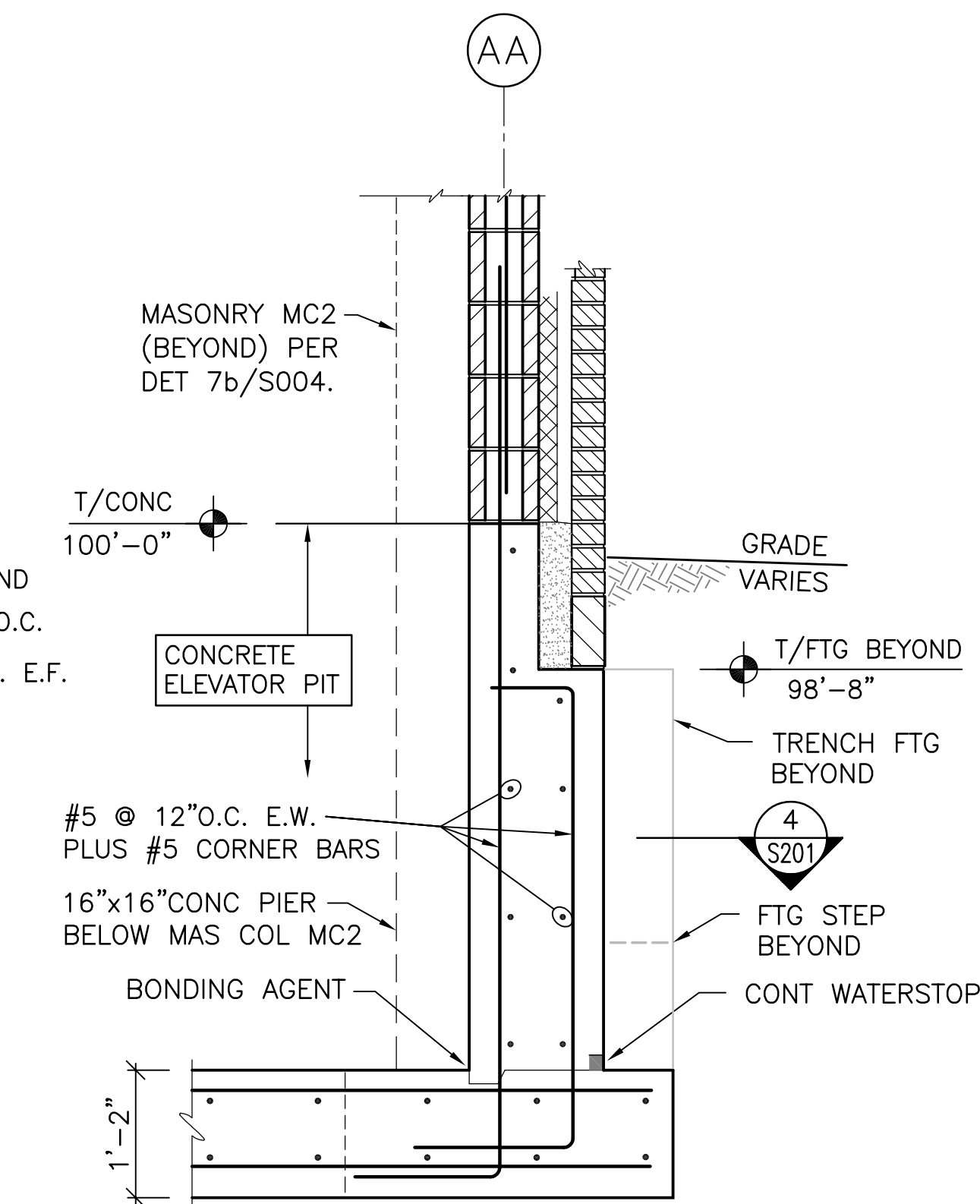
1 **GENERIC ELEVATOR PIT PLAN**  
N.T.S.



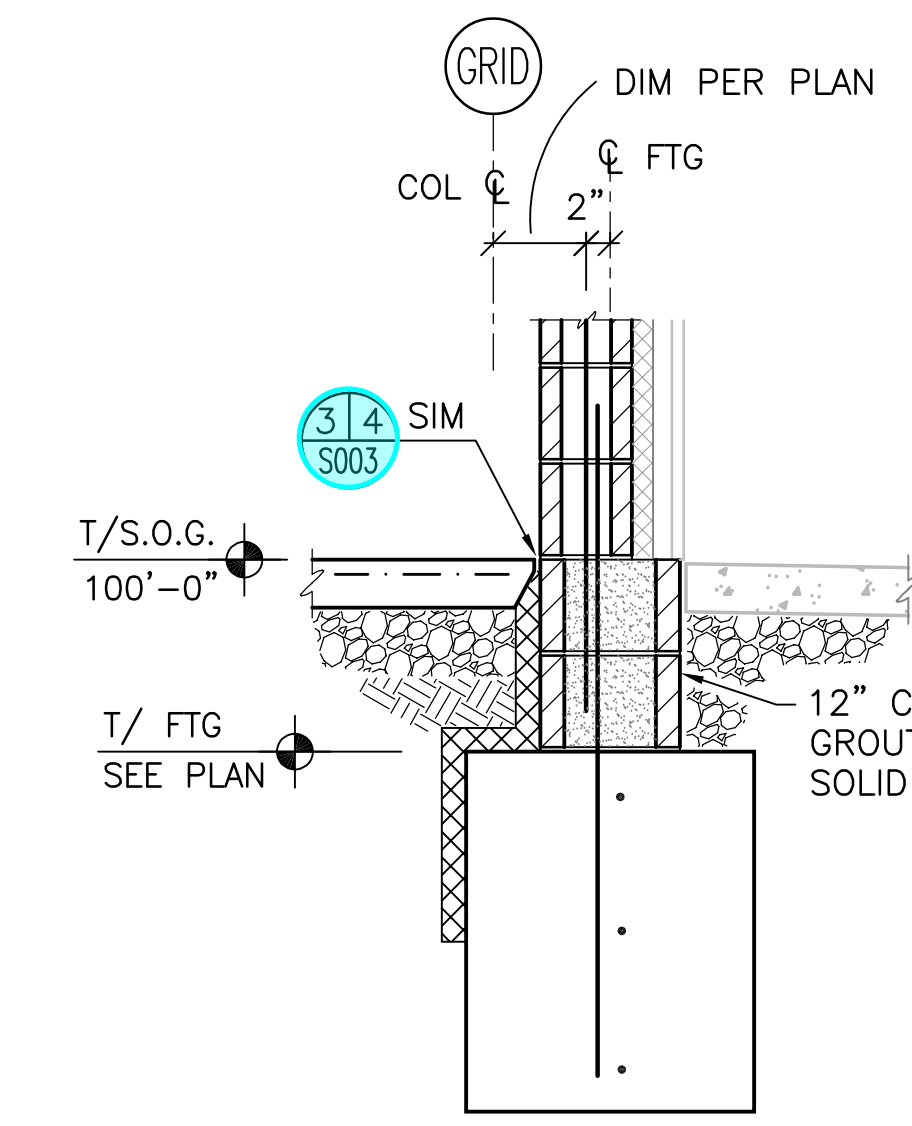
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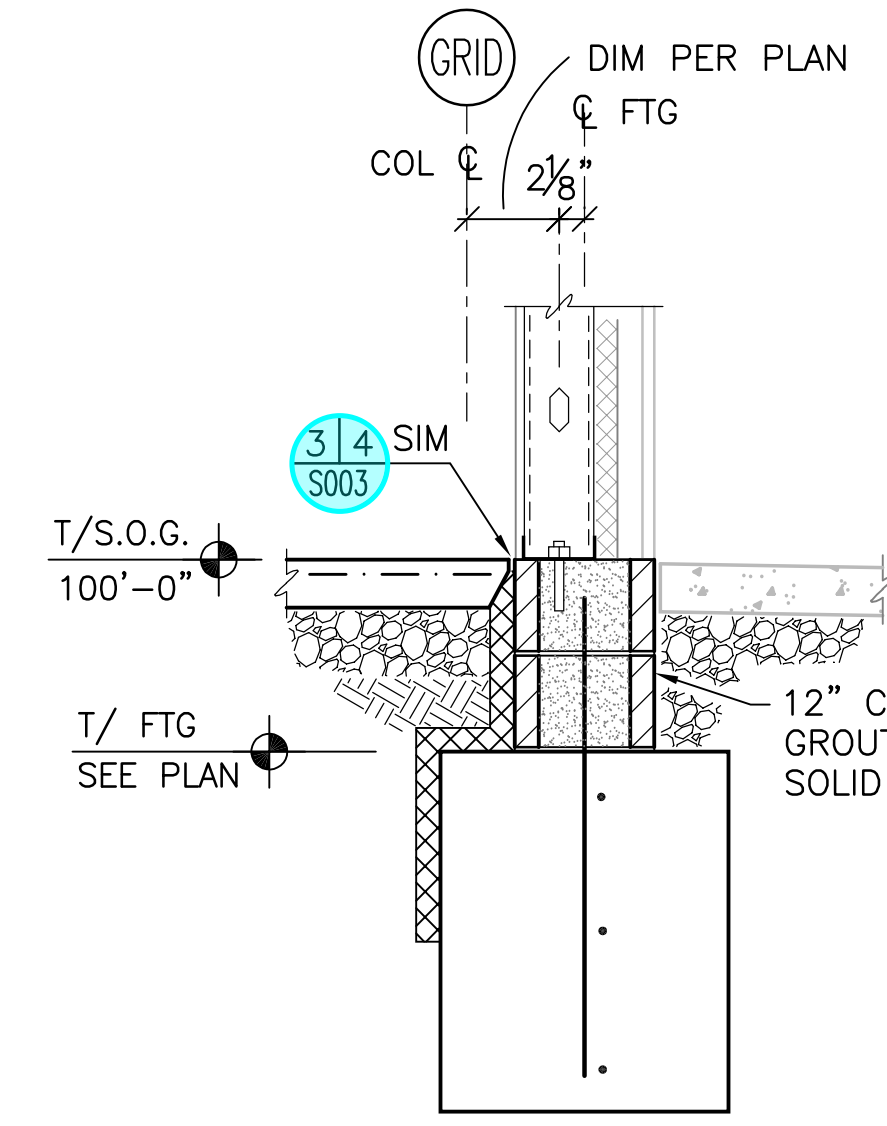
**SECTION B**  
N.T.S.



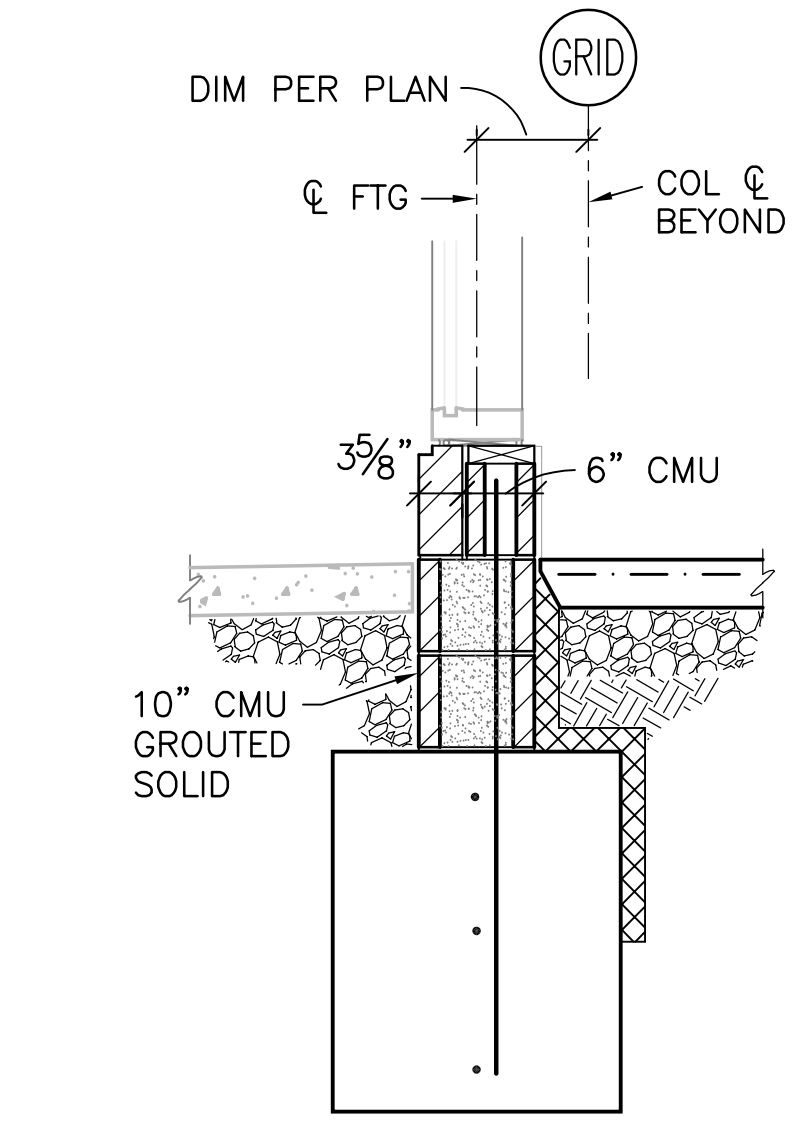
**SECTION C**  
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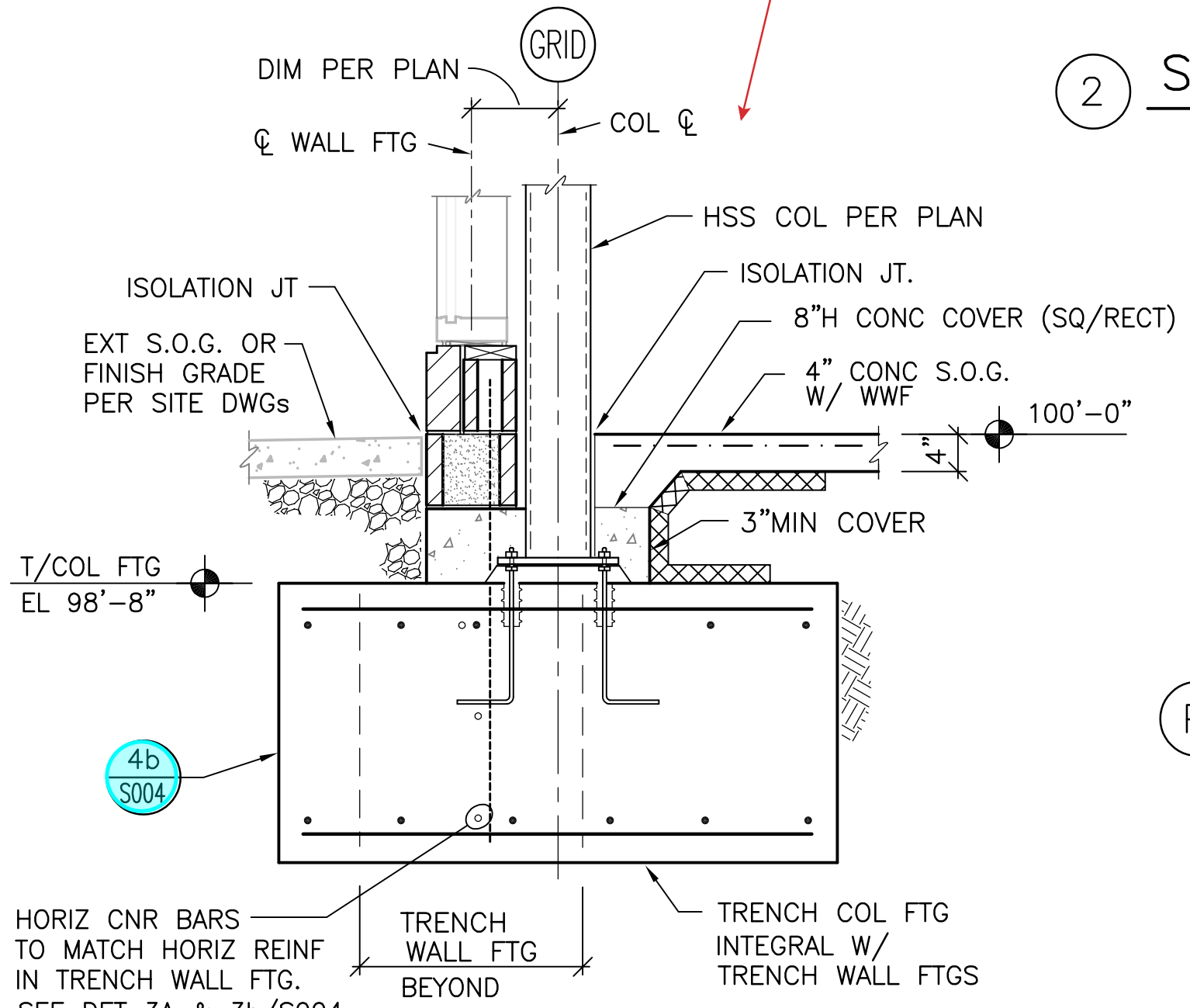
**SECTION D**  
SCALE: 3/4" = 1'-0"



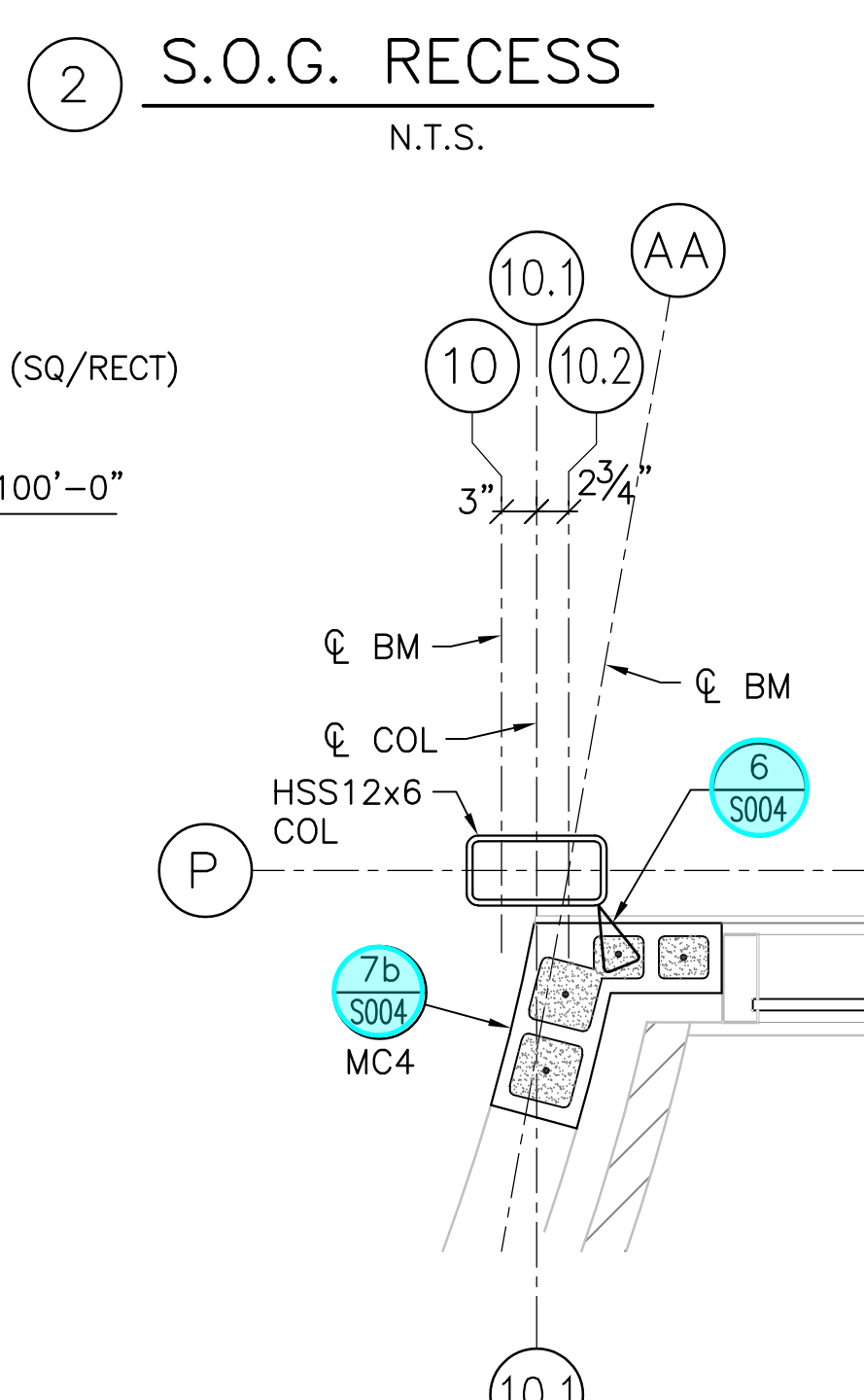
**SECTION E**  
SCALE: 3/4" = 1'-0"



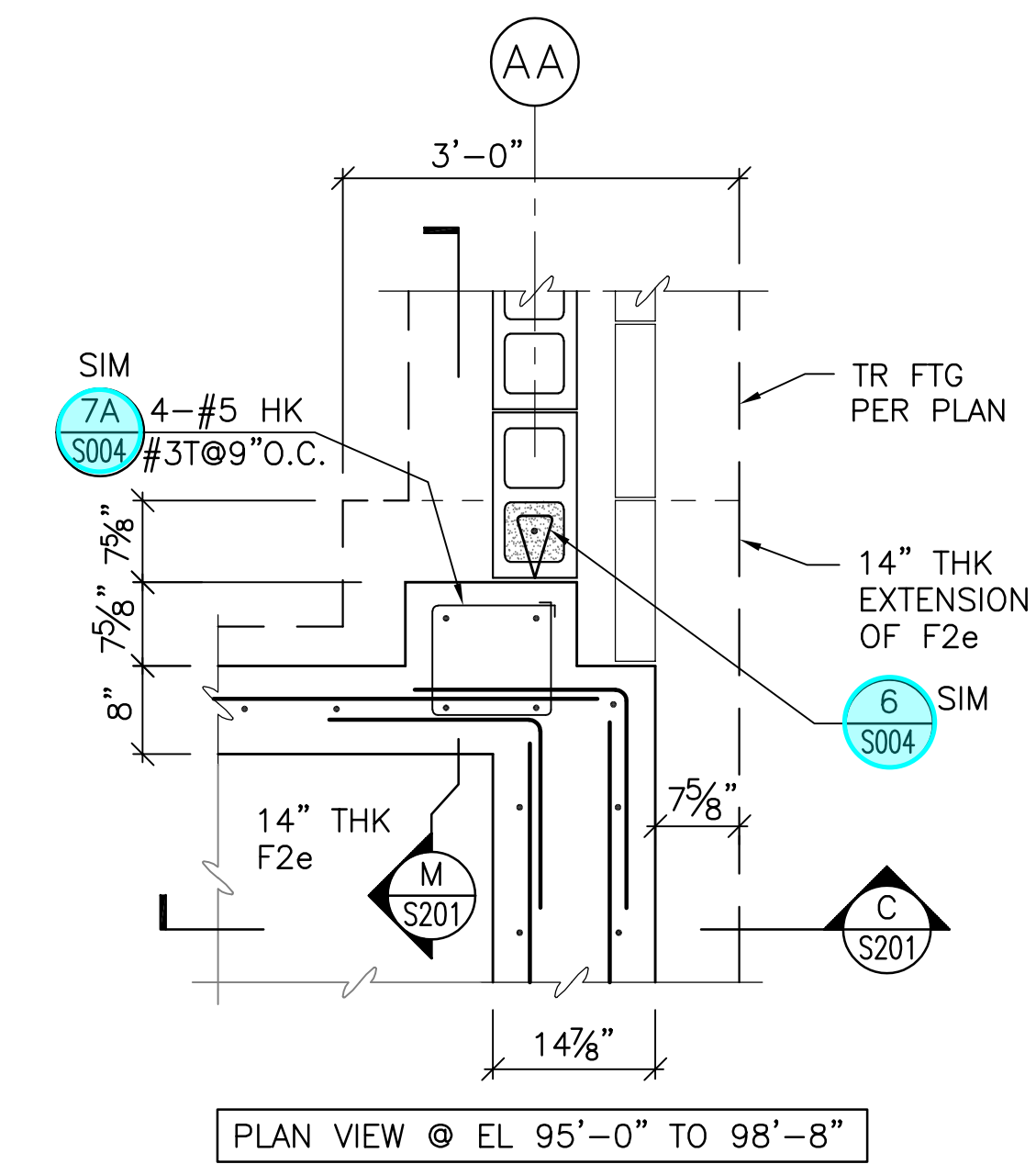
**SECTION F**  
SCALE: 3/4" = 1'-0"



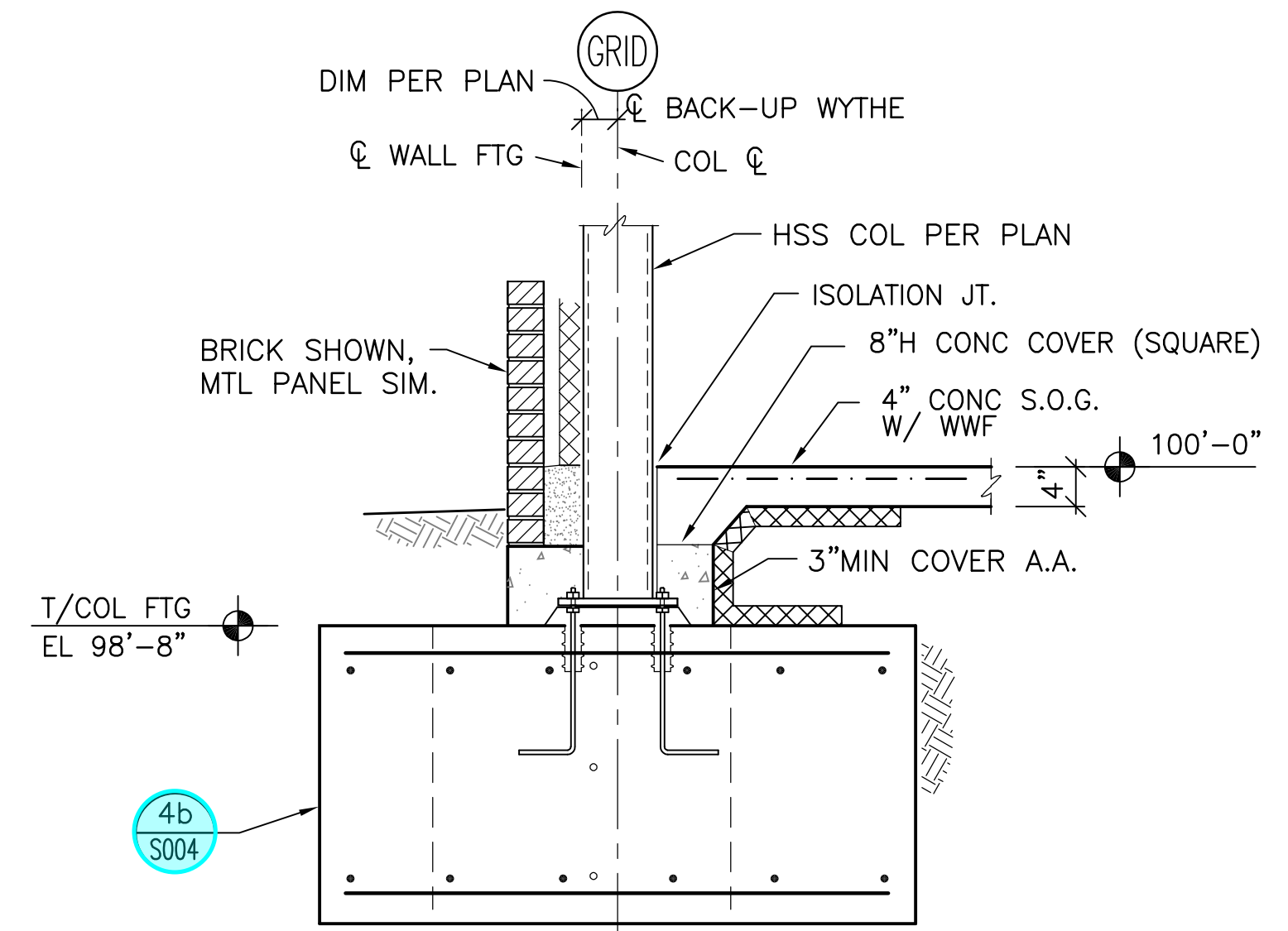
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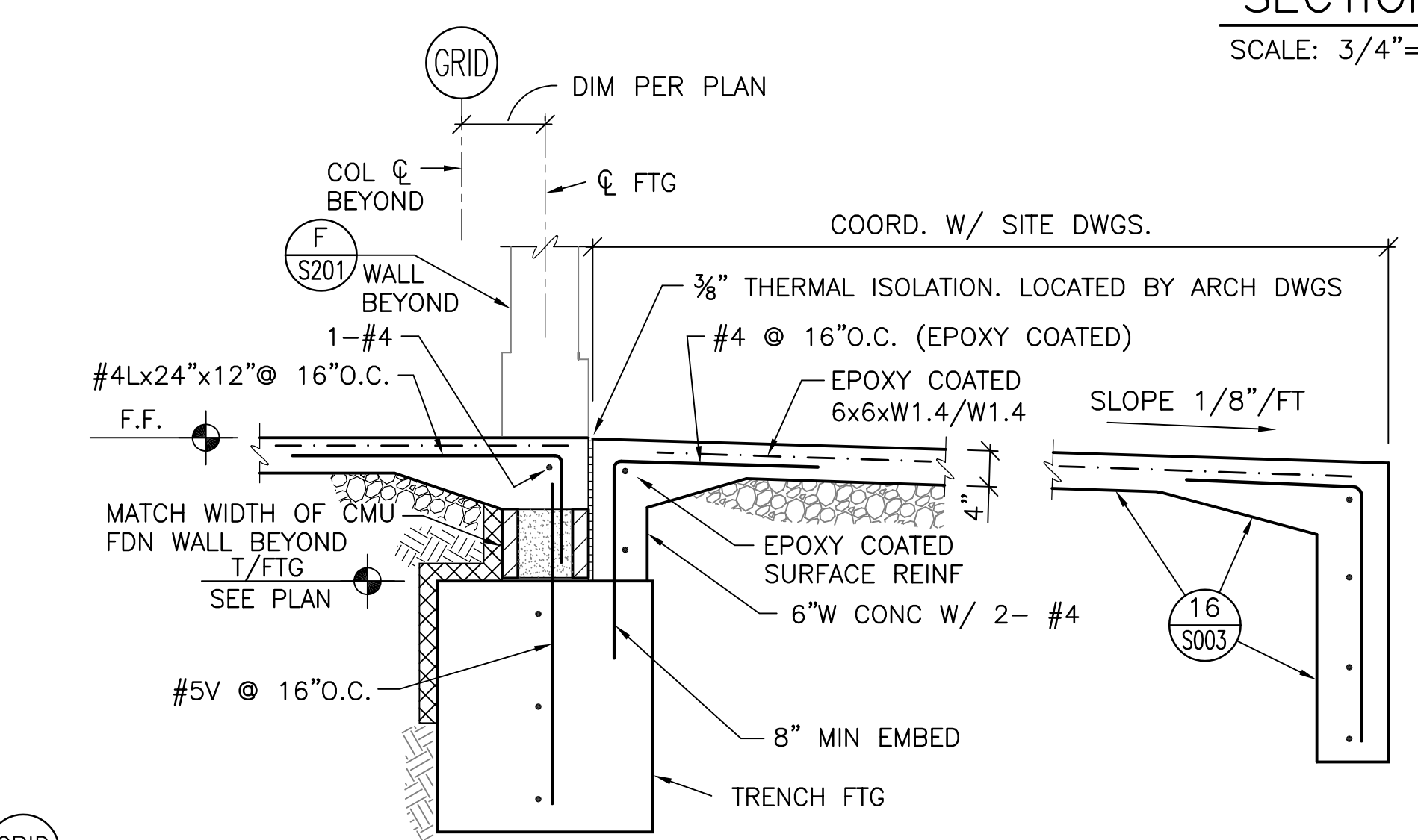
2 **S.O.G. RECESS**  
N.T.S.



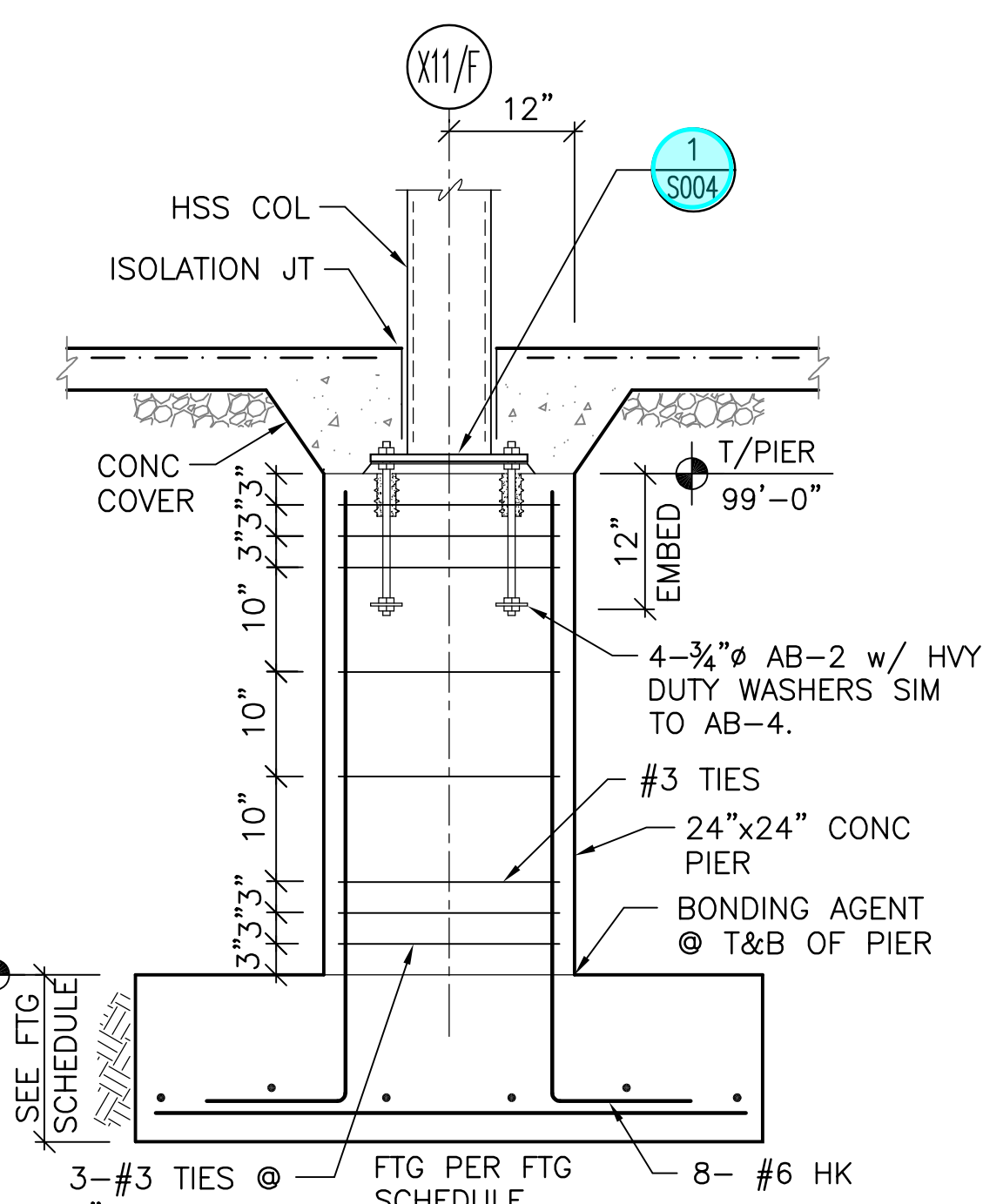
4 **ELEV PIT @ EXT WALL**  
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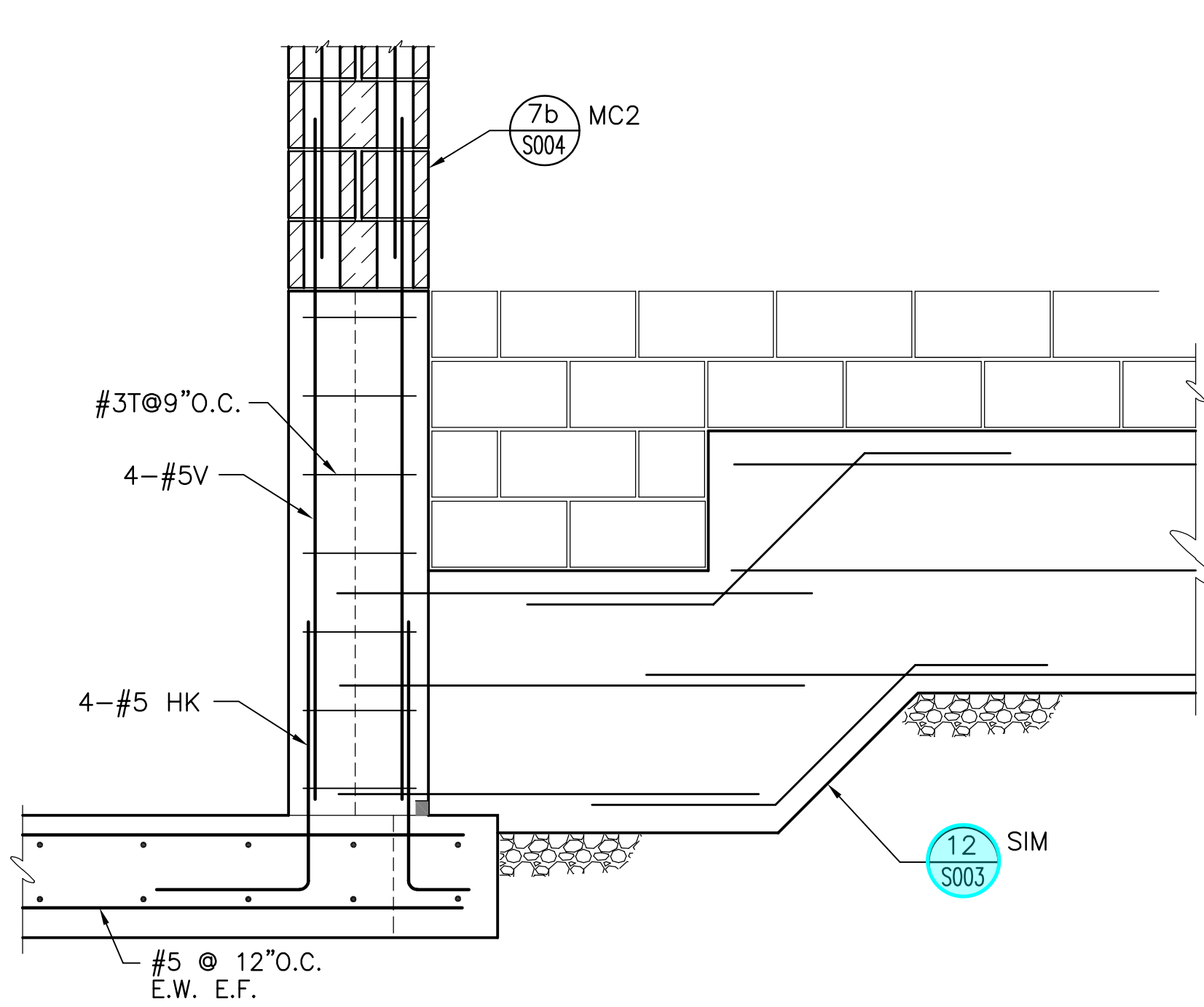
**SECTION H**  
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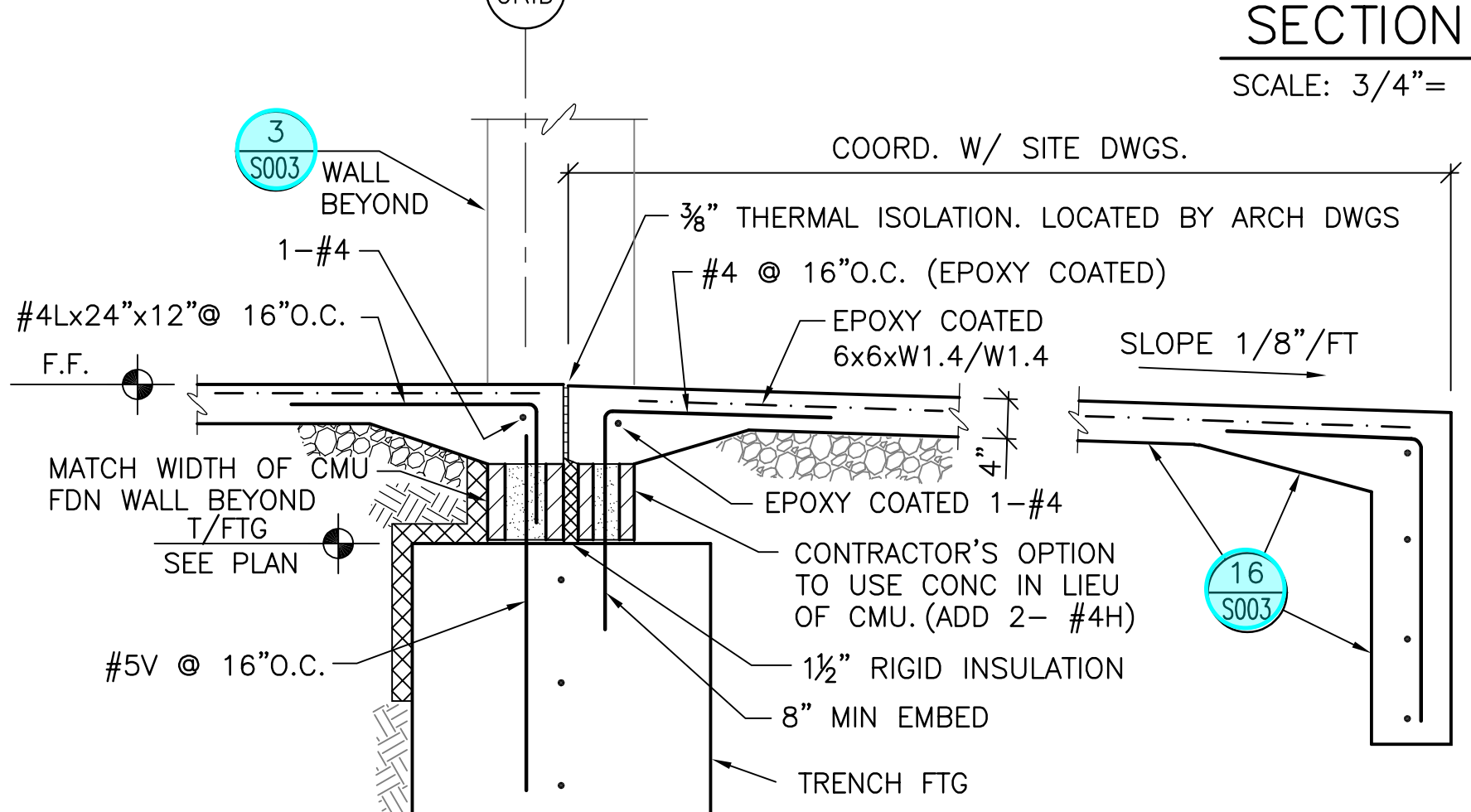
**SECTION J**  
SCALE: 3/4" = 1'-0"



3 **PLAN VIEW HSS12x6 COL**  
SCALE: 3/4" = 1'-0"



**SECTION L**  
SCALE: 3/4" = 1'-0"



**SECTION K**  
SCALE: 3/4" = 1'-0"

**SECTION M**  
SCALE: 3/4" = 1'-0"

**RFI 45**  
Stair 1 - Door and Tech Clarification

**RFI 15**  
Storm Line Footer Issue

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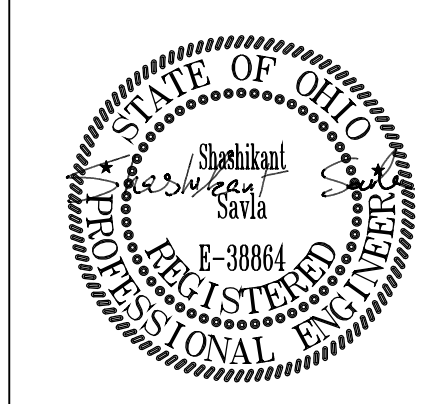
#	DATE	CHANGE DESCRIPTION

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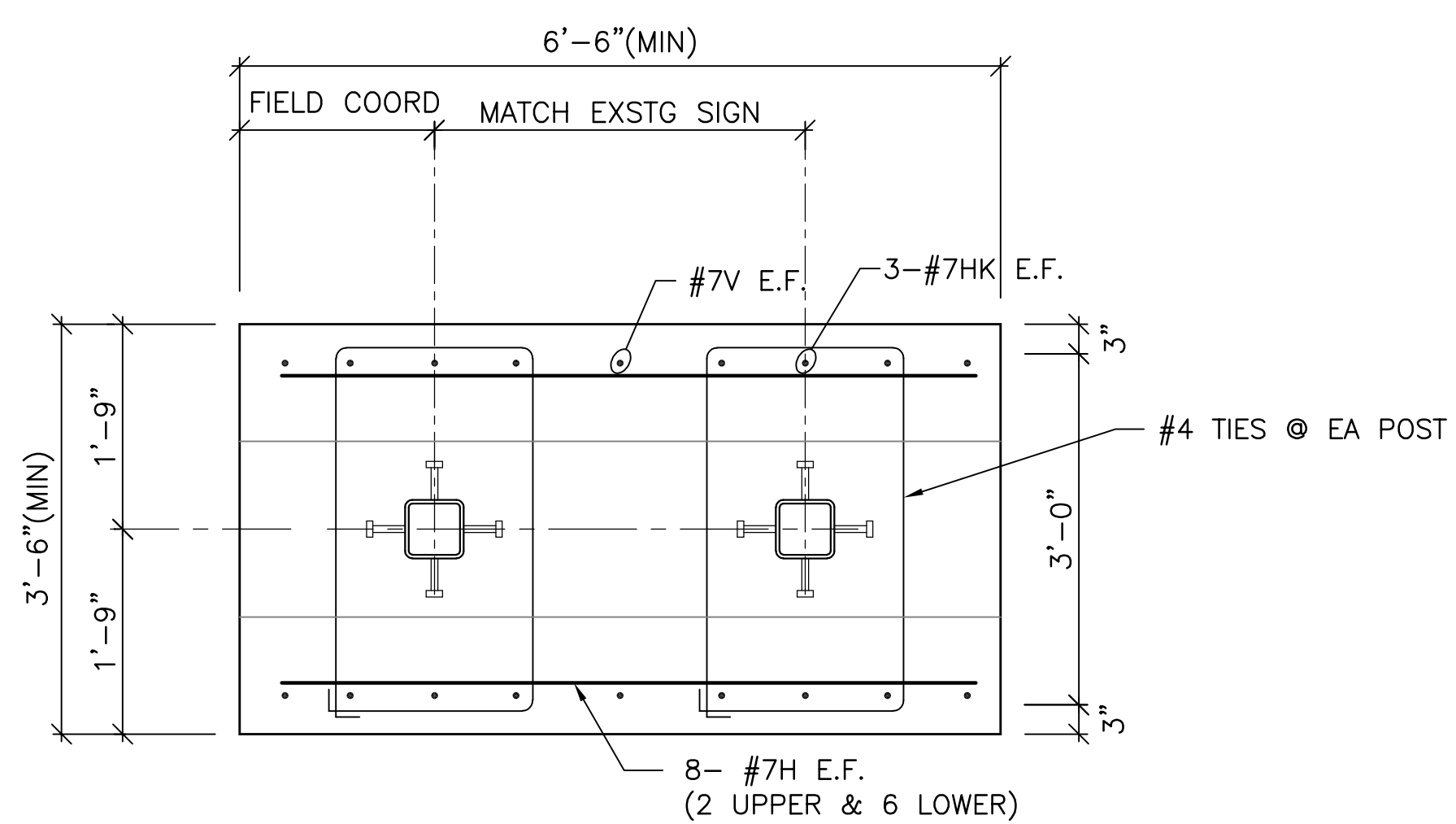
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**FOUNDATION SECTIONS & DETAILS**

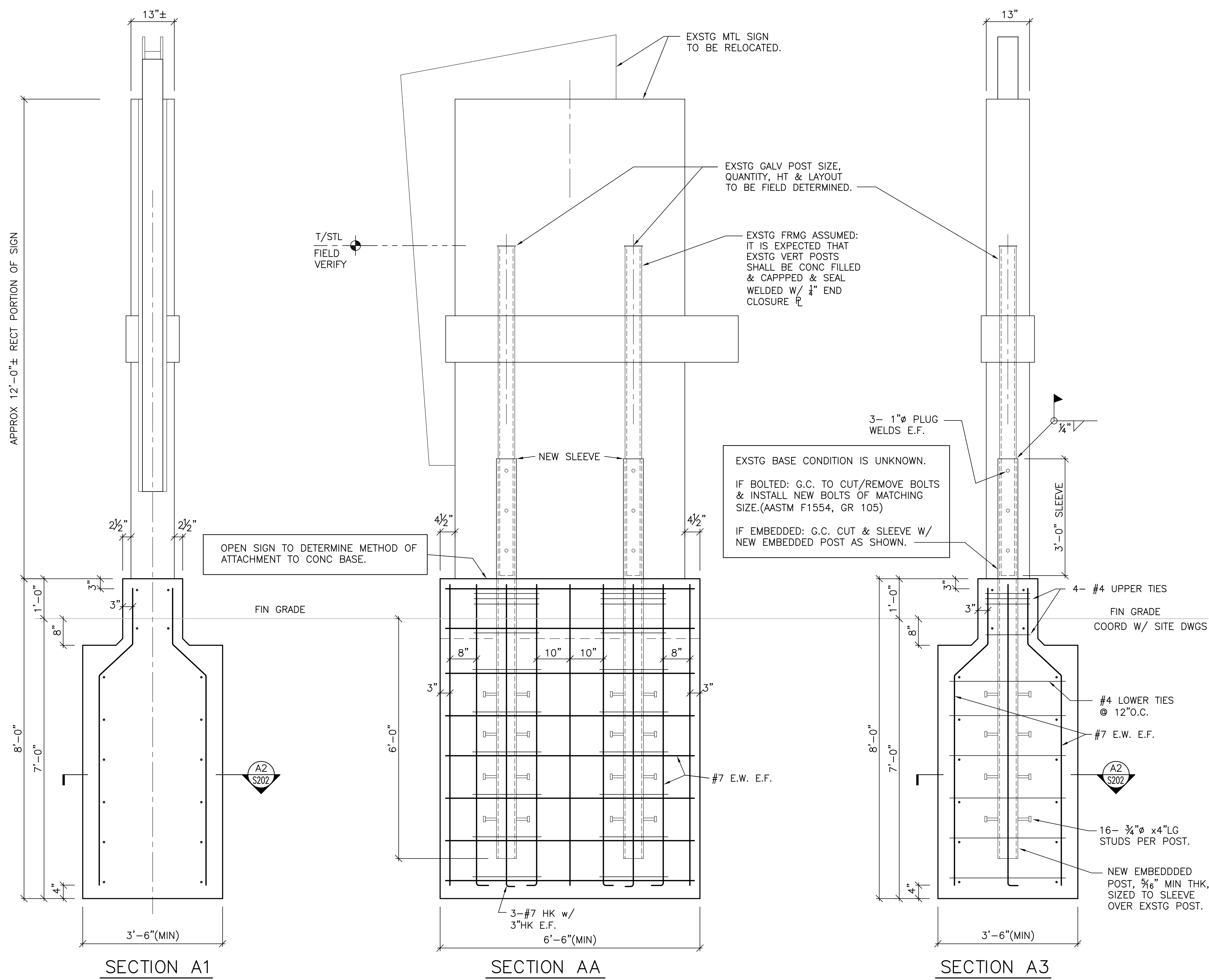
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18428  
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SECTION A2



DESIGN INTENT :

EXSTG SIGN SHALL BE REMOVED, SALVAGED (CAREFULLY/NO DAMAGE) & RELOCATED PER ARCHITECT'S DIRECTION. EXISTING SIGN'S INTERNAL FRAMING & CONCEALED CONNECTIONS ARE CURRENTLY UNKNOWN. DESIGN ASSUMPTIONS HAVE BEEN MADE FOR RELOCATION W/O SAVING THE EXSTG CONC BASE/FTG. G.C. SHALL FIELD VERIFY EXISTING SIGN FRAMING AND DETERMINE HOW THE EXSTG SIGN IS ANCHORED TO THE EXSTG CONC FOUNDATION. G.C. TO NOTIFY A/E W/ ACTUAL FIELD CONDITIONS FOR FINAL DESIGN.

PROPOSED CONSTRUCTION SEQUENCE :

- 1.) G.C. TO FIELD DETERMINE INTERIOR FRAMING LAYOUT OF EXSTG SIGN, CURRENT CONNECTION METHOD TO FOUNDATION, MEASURE CONNECTION MEMBERS USED, AND PROPOSE METHOD OF RELOCATION. G.C. IS RESPONSIBLE TO PRESERVE SIGN COMPONENTS UNTIL REINSTALLATION.
- 2.) ENGINEER OF RECORD TO REVIEW ACTUAL FIELD CONDITIONS AND CONFIRM FINAL DESIGN OF SIGN FTG & RECONNECTION TO NEW FOUNDATION. EOR WILL REQUIRE 14 DAYS FROM DATE OF FIELD MEASUREMENTS TO RELEASE CONFIRMATION OF FINAL DESIGN.
- 3.) G.C. TO PROVIDE TO A/E, SHOP DWGS BASED ON CONFIRMED FINAL DESIGN.

EXSTG SIGN RELOCATION ALLOWANCES :

- 1A. G.C. TO FIELD DETERMINE INTERIOR FRAMING LAYOUT OF EXSTG SIGN, CURRENT CONNECTION METHOD TO FOUNDATION, MEASURE CONNECTION MEMBERS USED, AND PROPOSE METHOD OF RELOCATION. G.C. IS RESPONSIBLE TO PRESERVE SIGN COMPONENTS UNTIL REINSTALLATION.
- 1B. INCLUDE AN ALLOWANCE TO INSTALL UP TO AN ADD'L 3 CU. YD OF CONCRETE FOR FOUNDATION/PIER OR POST FILL.
- 1C. INCLUDE AN ALLOWANCE TO INSTALL UP TO AN ADD'L 500 LBS OF CONCRETE FOR FOUNDATION REINFORCING.
- 2A. INCLUDE IN BID TO INSTALL A GALV STL SLEEVE AS DETAILED HEREIN.
- 2B. INCLUDE AN ALLOWANCE TO INSTALL A BOLTED CONNECTION OF THE EXSTG SIGN TO THE NEW FOUNDATION W/ MATCHING ANCHOR BOLTS.
3. INCLUDE AN ALLOWANCE TO FIELD WELD UP TO 1,000 LBS OF (GALV) STL W/ 60° OF ¼" FILLET WELD.
4. INCLUDE IN BID TO FULLY REMOVE EXSTG FOUNDATION (CURRENTLY UNKNOWN).

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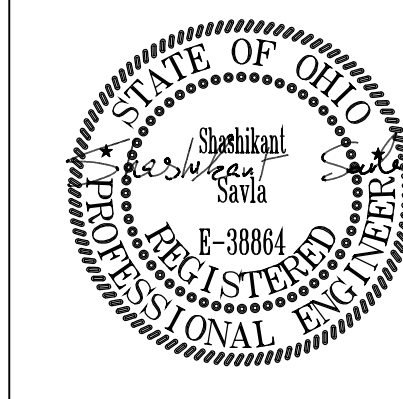
#	DATE	CHANGE DESCRIPTION
1	01/24/2020	ADDENDA # 2

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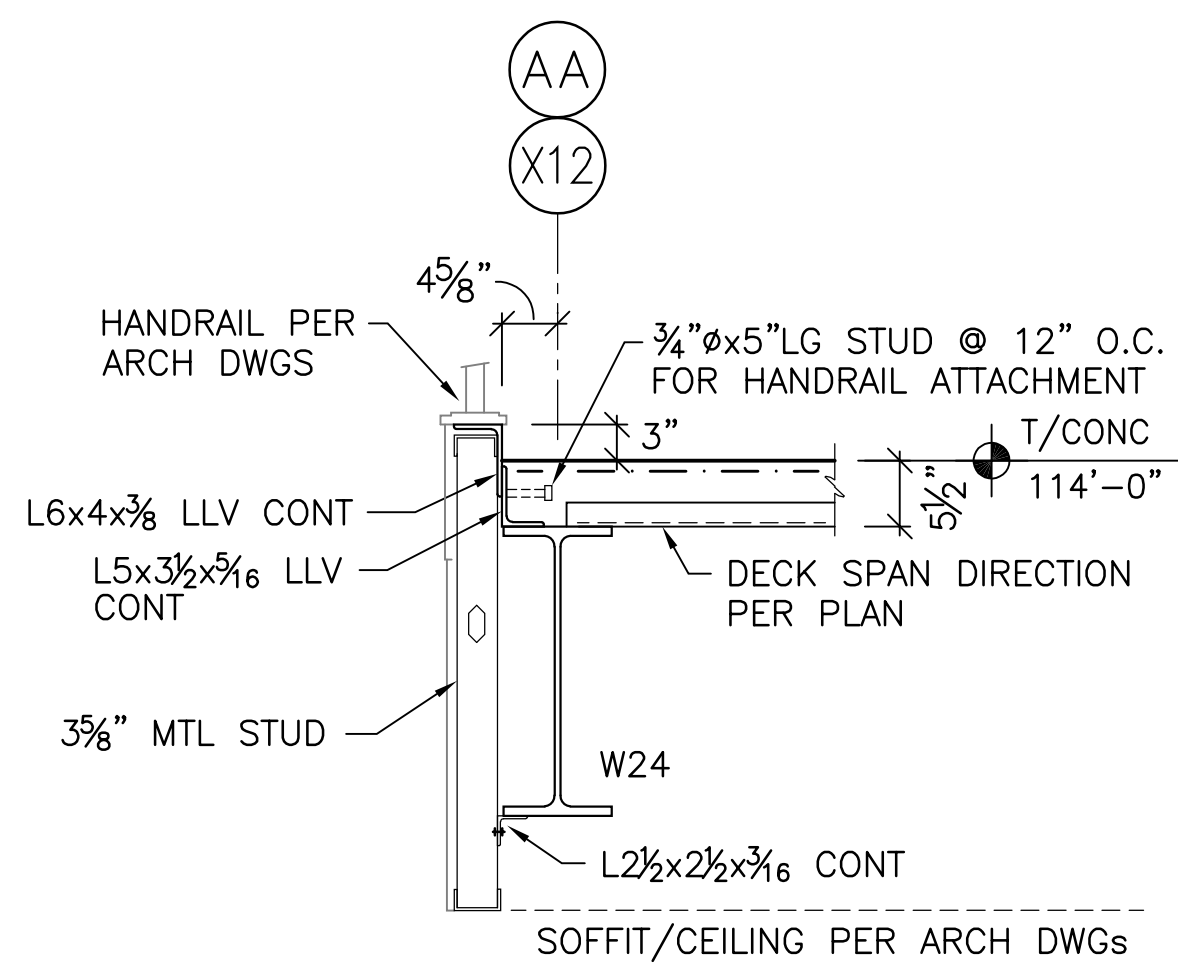
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DRAWING TITLE:  
**FOUNDATION SECTIONS & DETAILS**

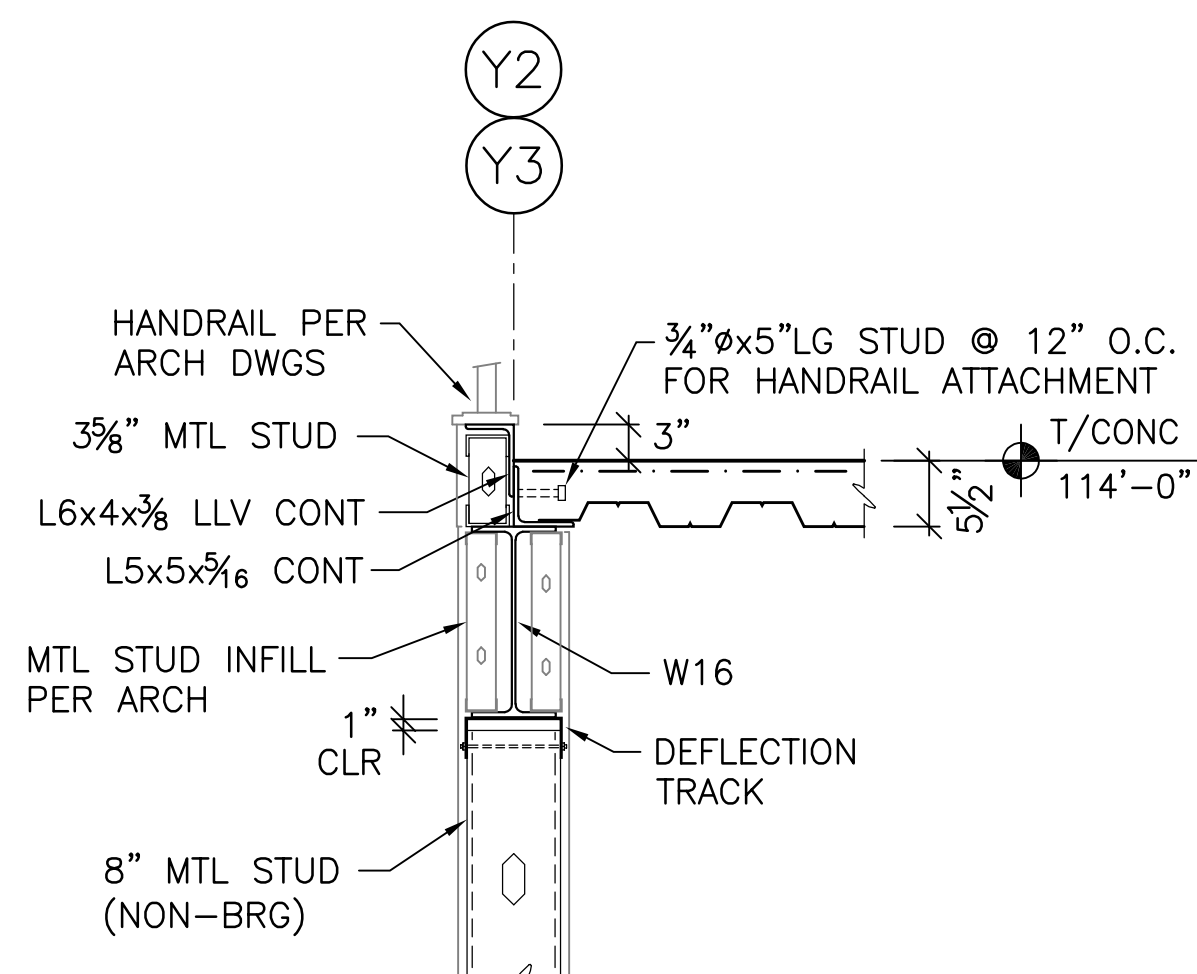
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**S202**  
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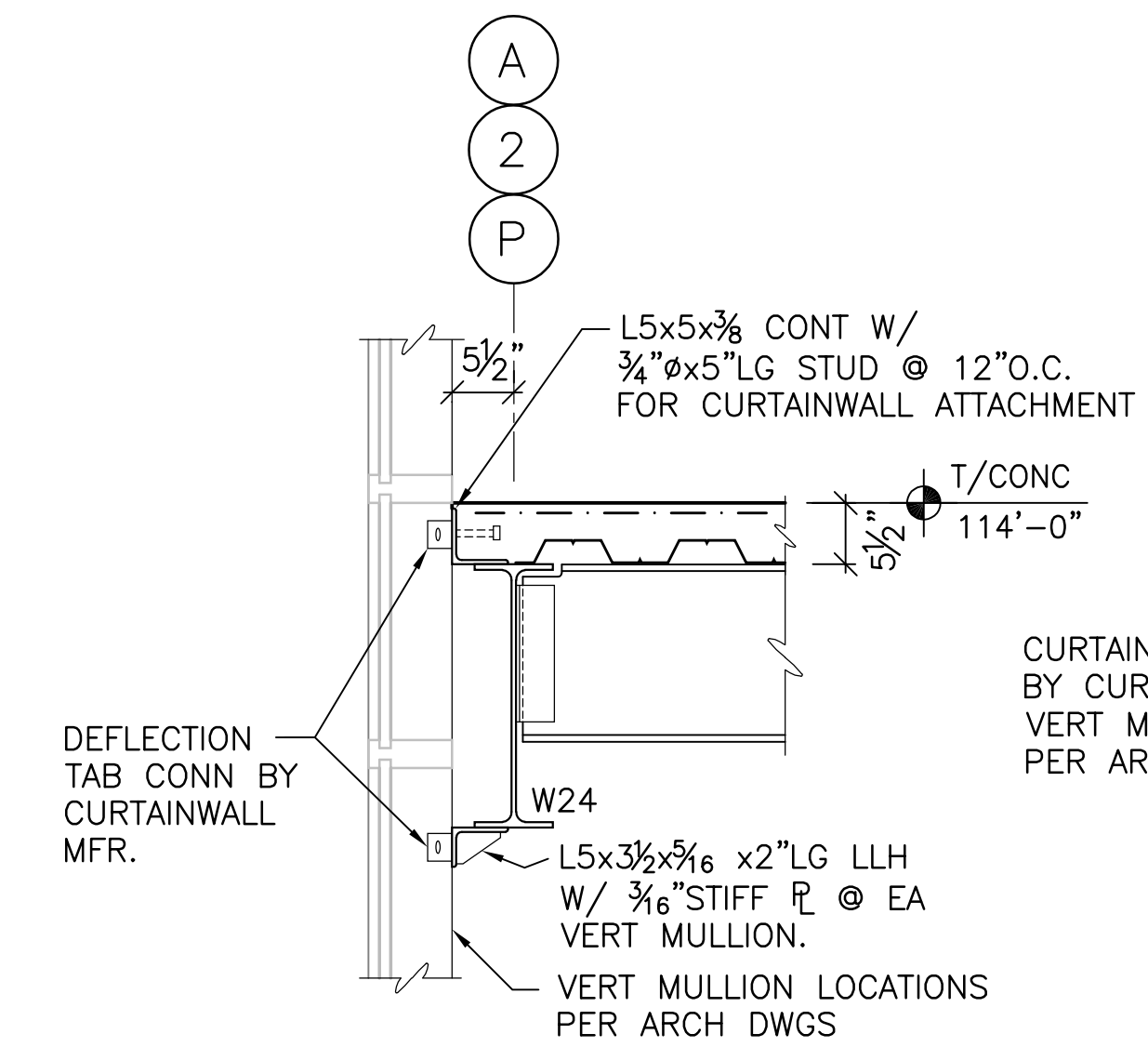
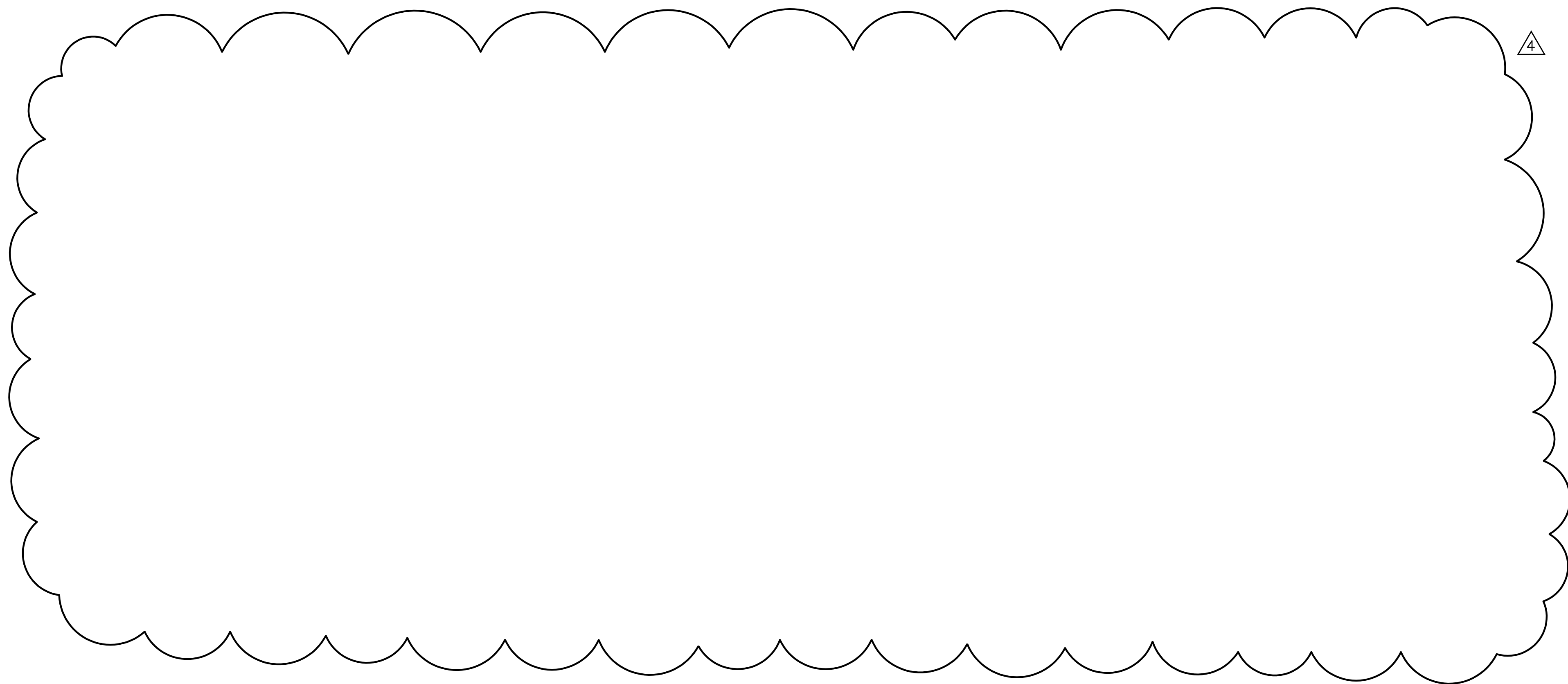




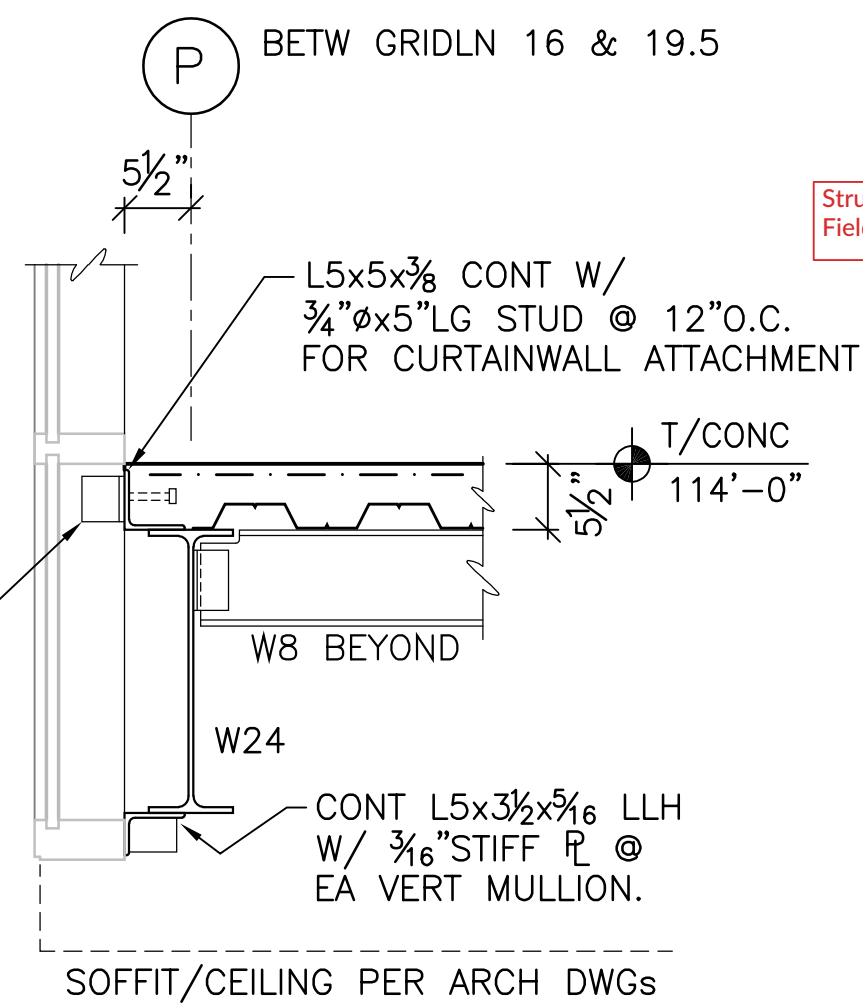
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**SECTION B**  
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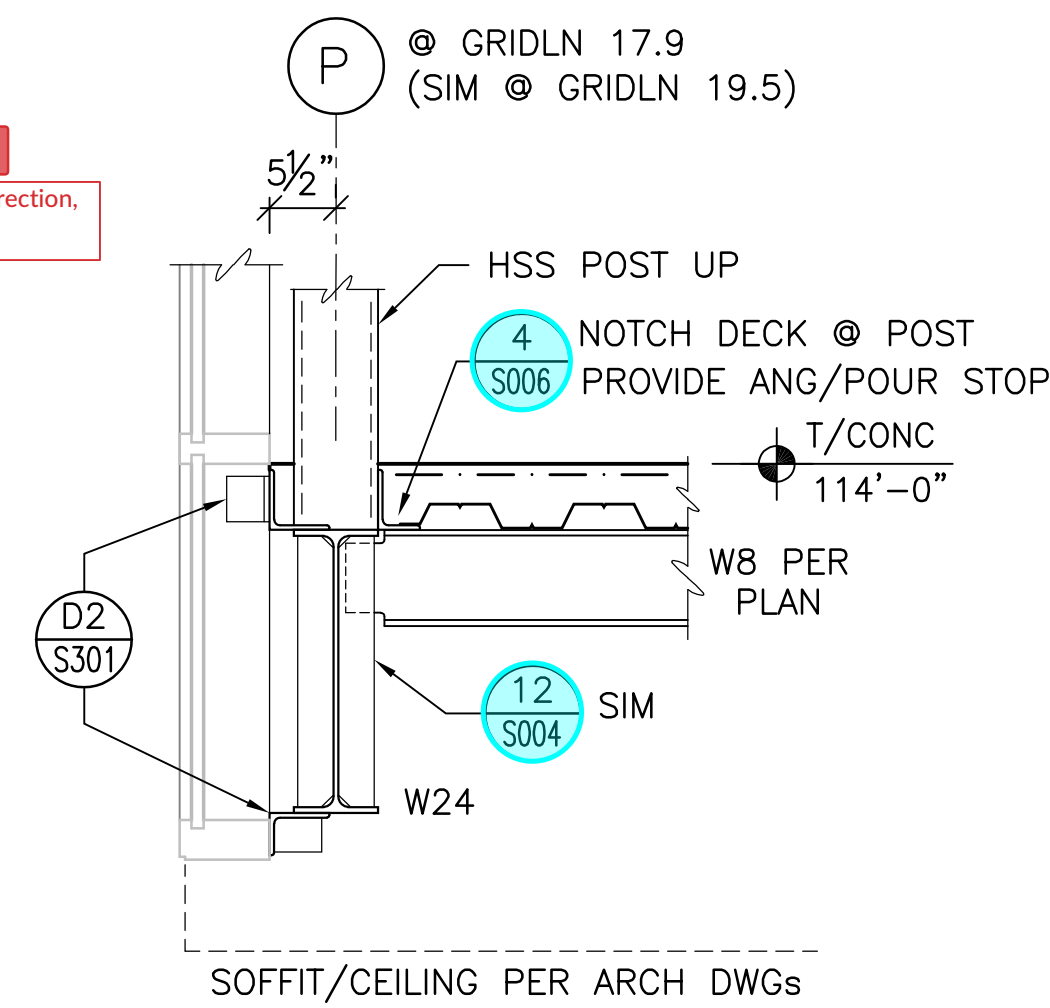


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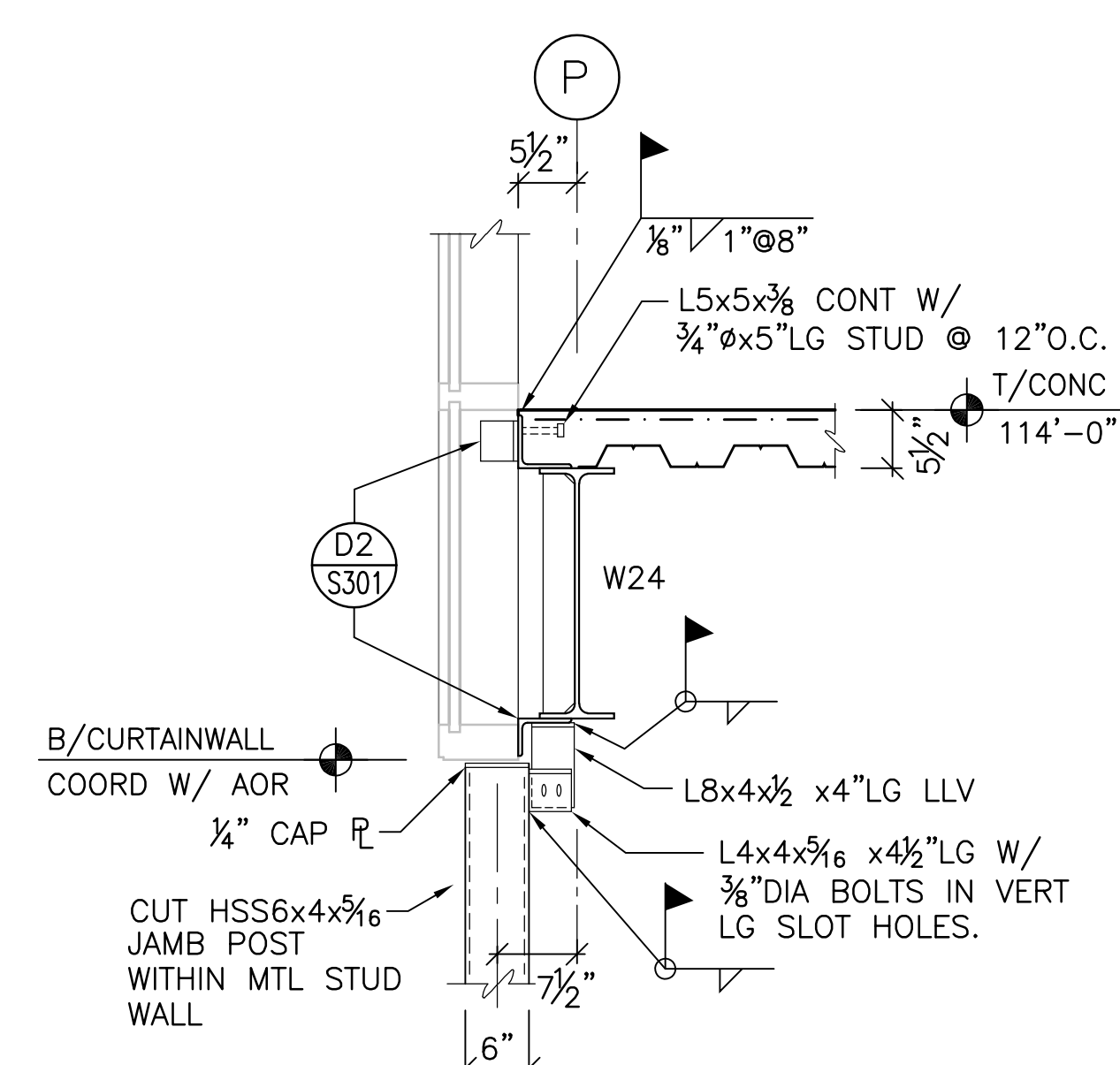


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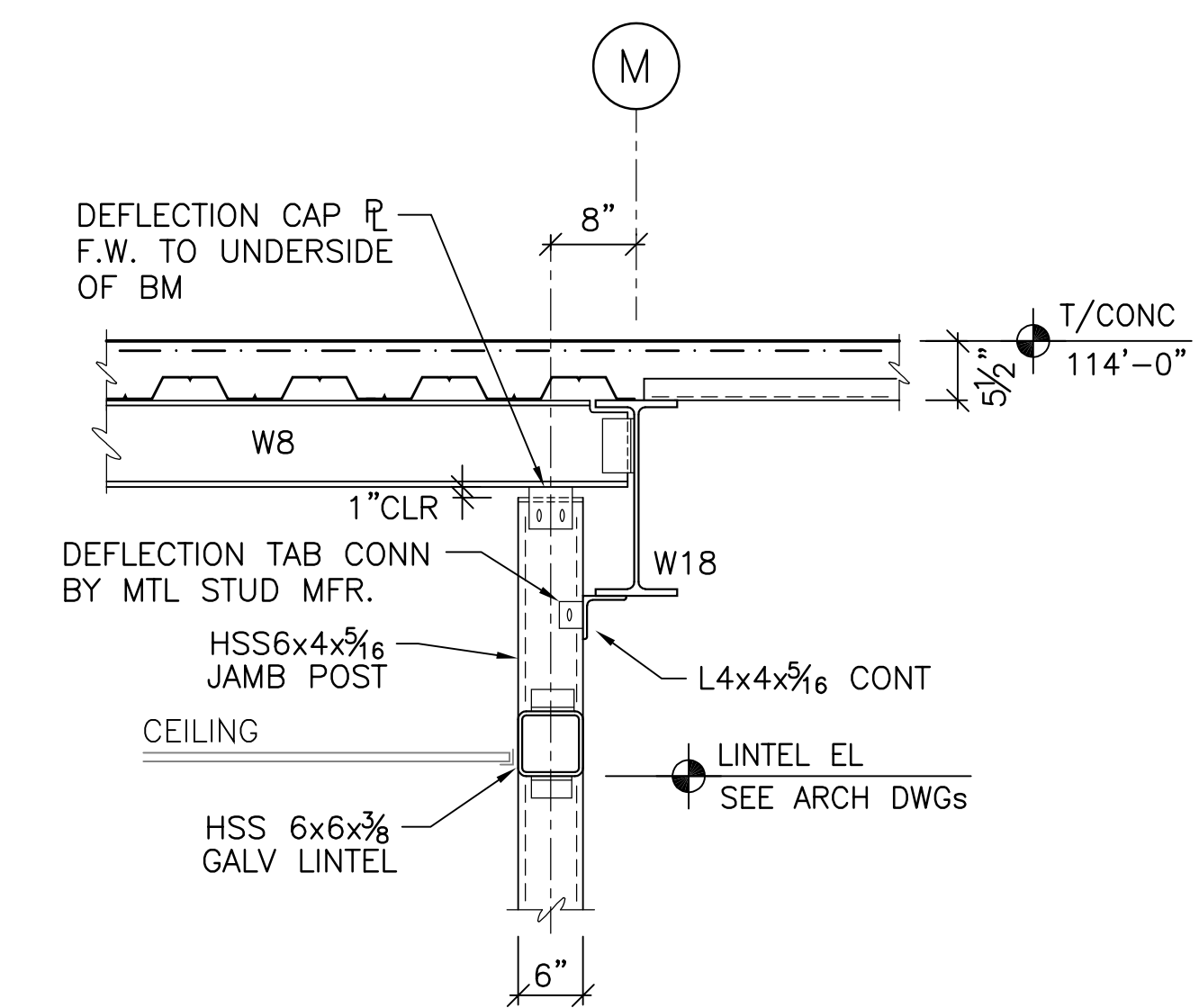
**RFI 59**  
Structural Steel - Erection  
Field Modification



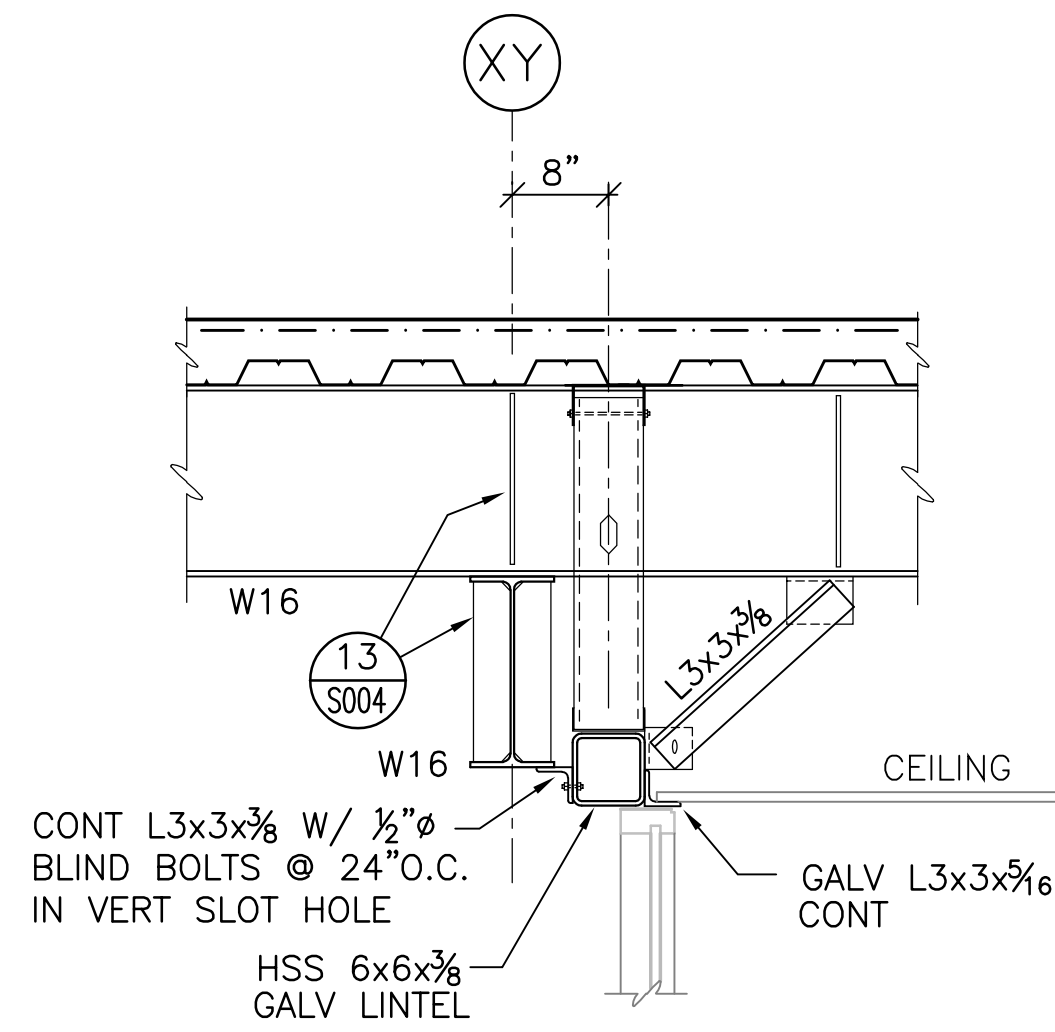
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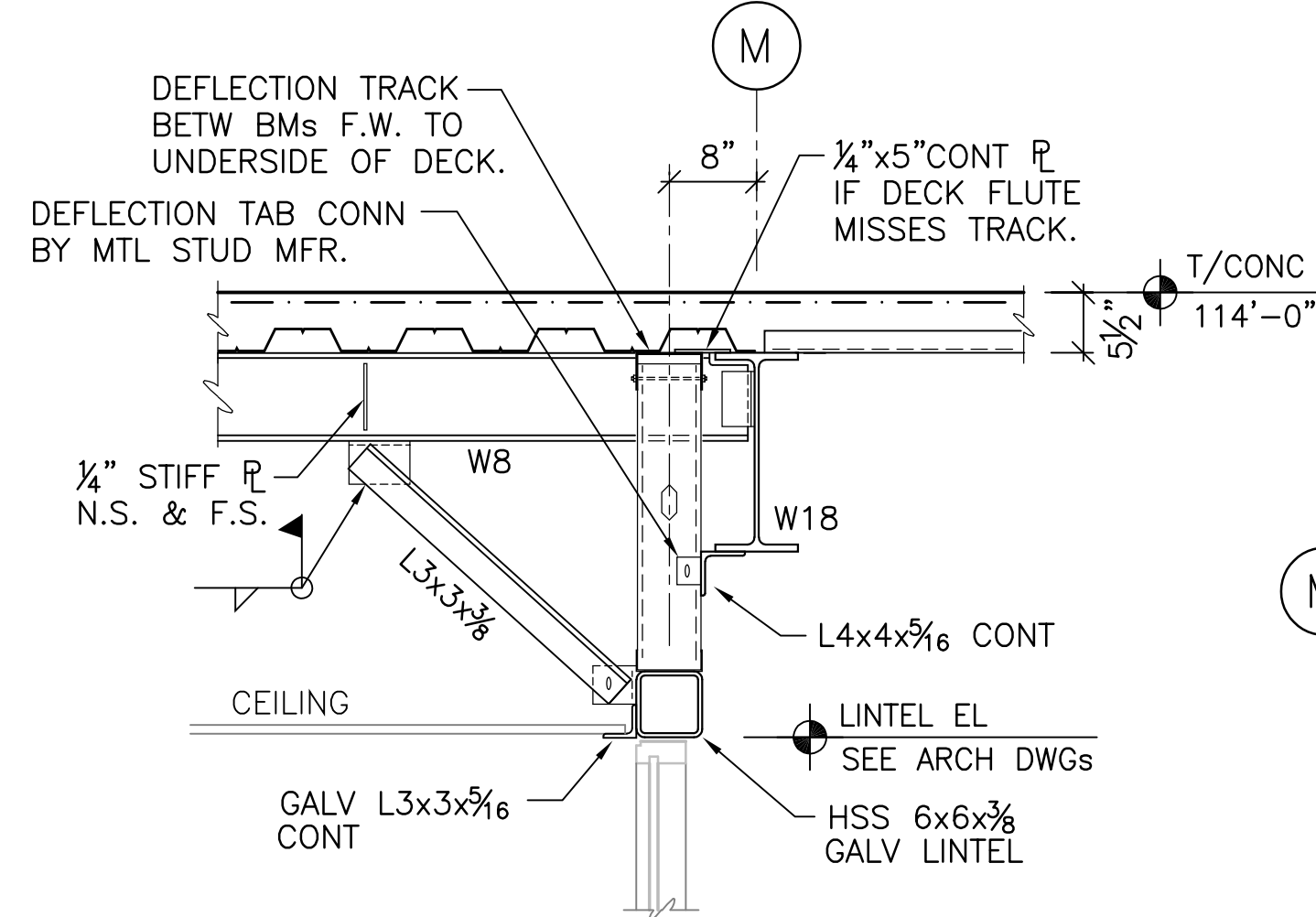
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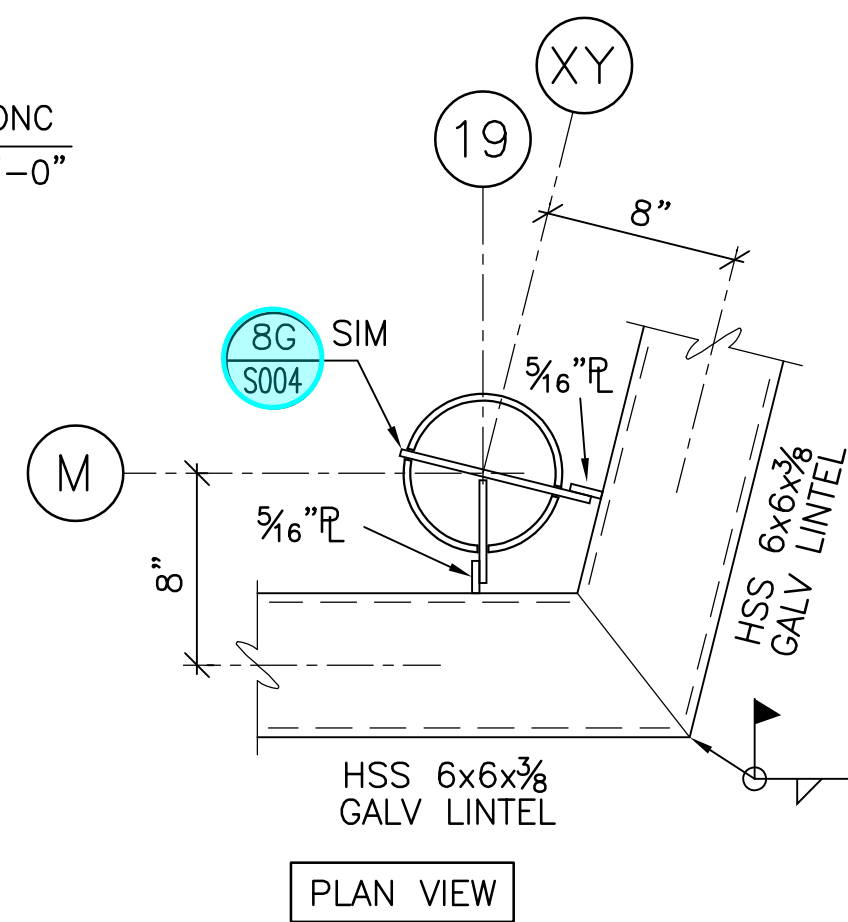
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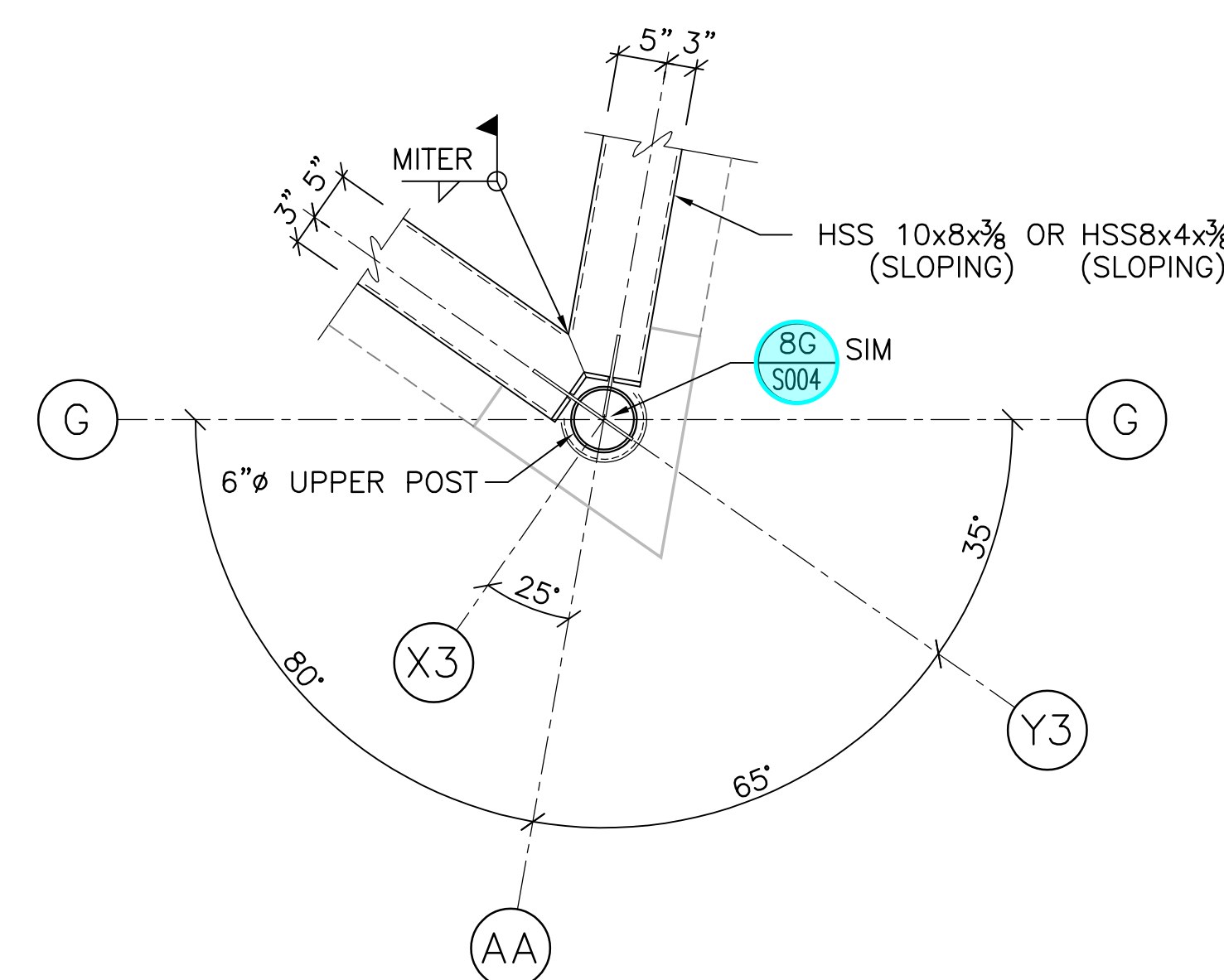
**SECTION G**  
SCALE: 3/4" = 1'-0"



**SECTION H/S301**  
SCALE: 3/4" = 1'-0"



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



**DETAIL 2**  
SCALE: 3/4" = 1'-0"

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#	DATE	CHANGE DESCRIPTION
1	01/24/2020	ADDENDA # 2
4	01/28/2021	BULLETIN # 6

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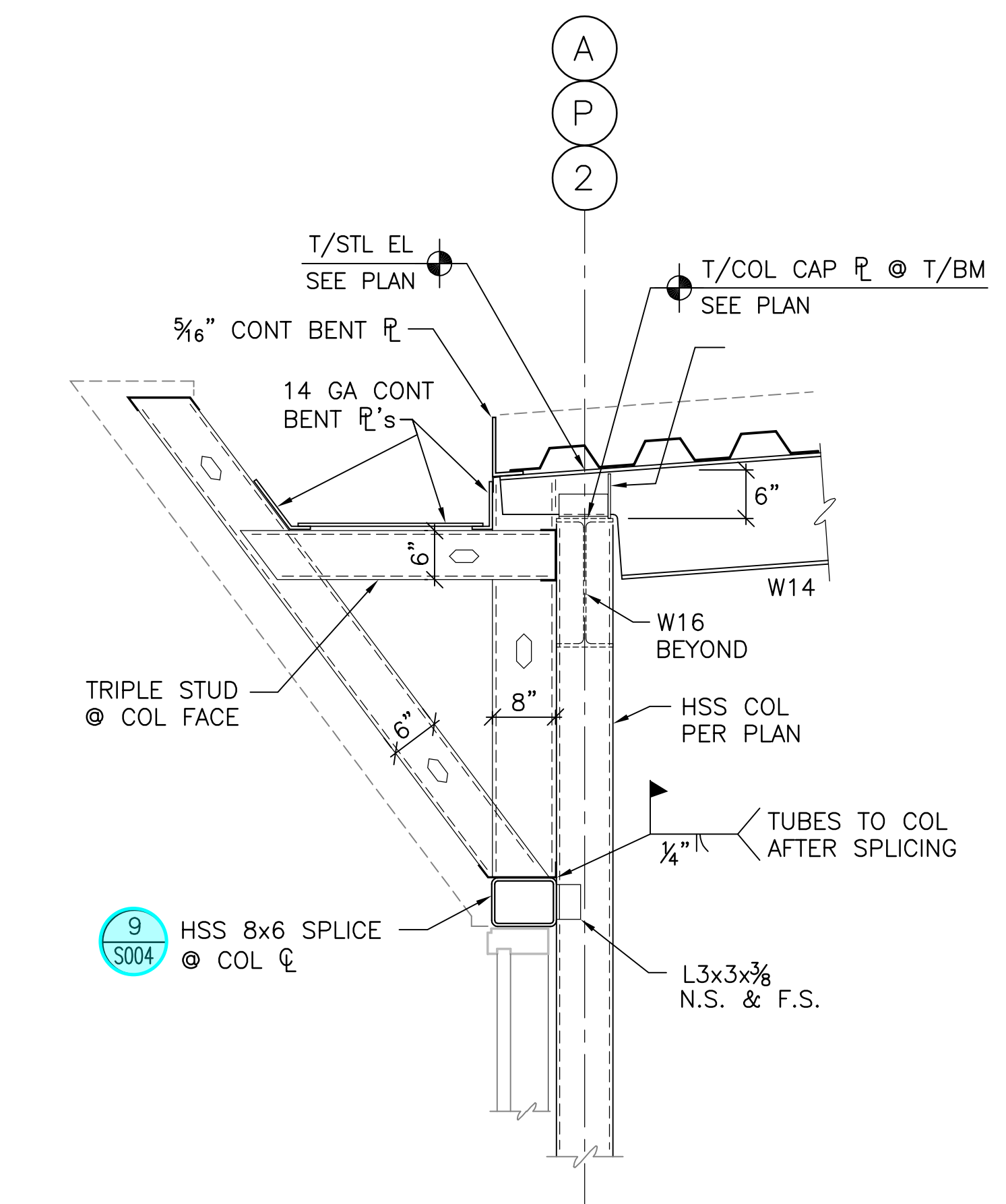
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**SECTIONS & DETAILS**

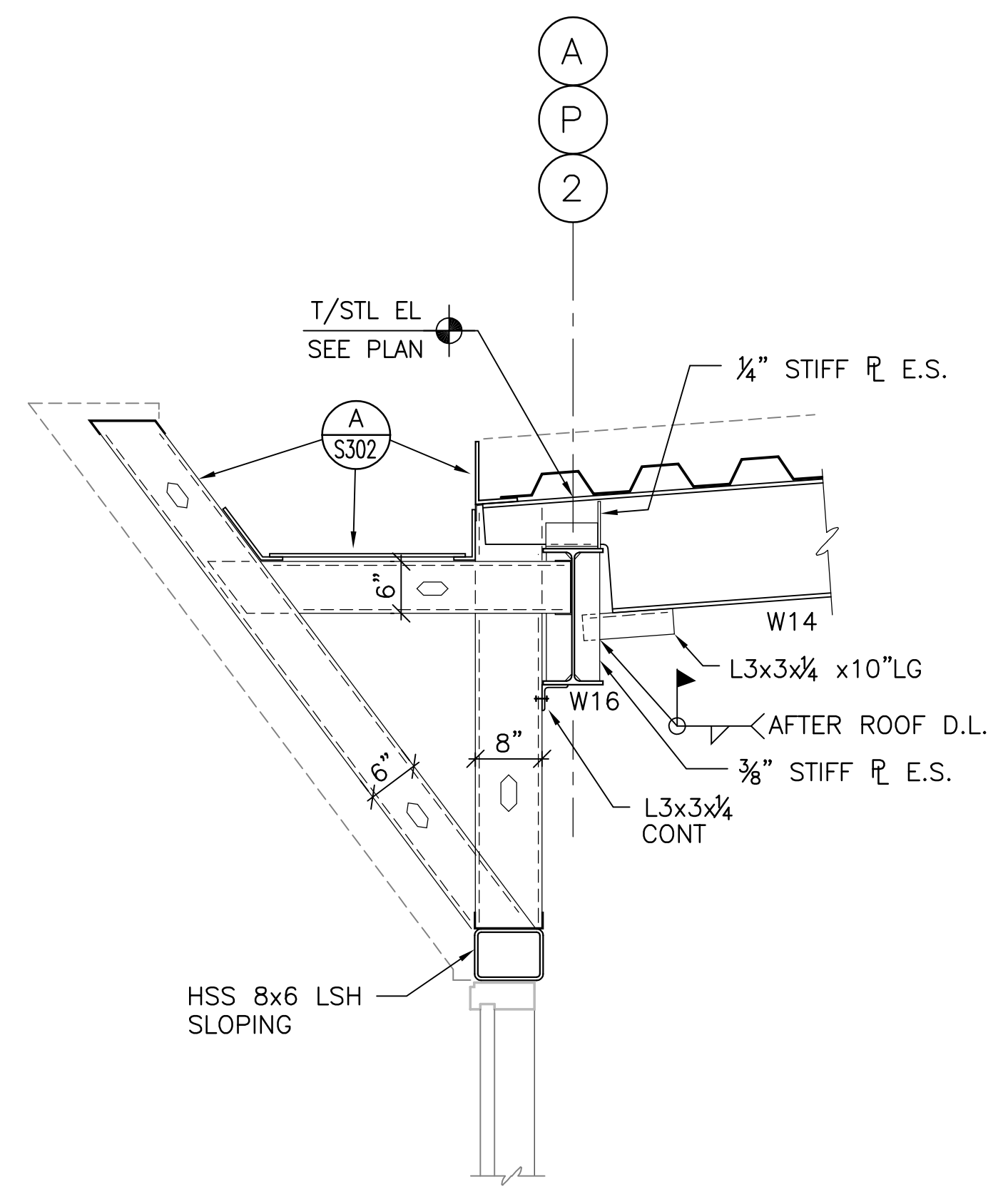
DRAWING TITLE: **S301**

DATE: 08/18/2020  
DRAWN BY: AB CHECKED BY: SPS  
18428

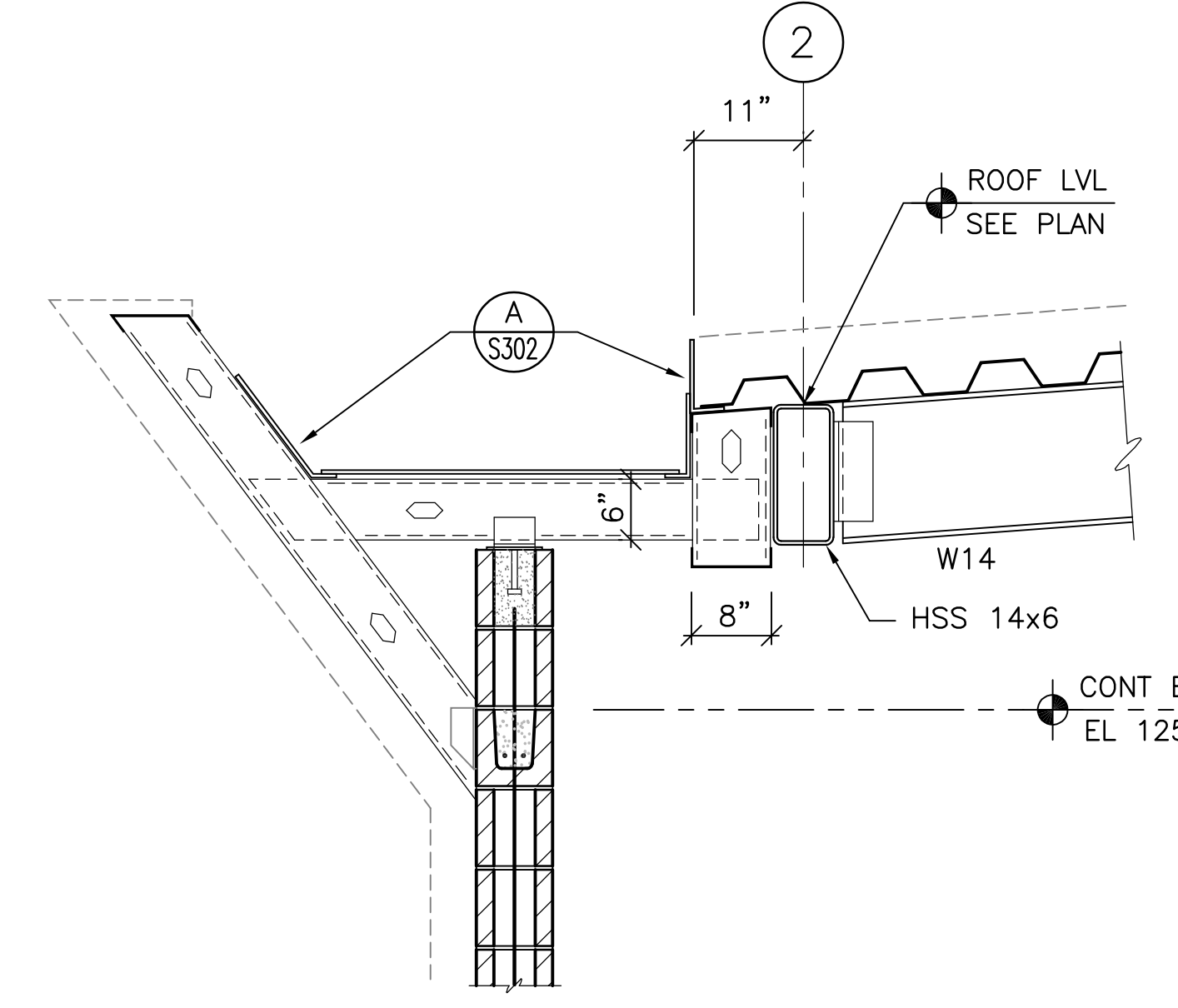




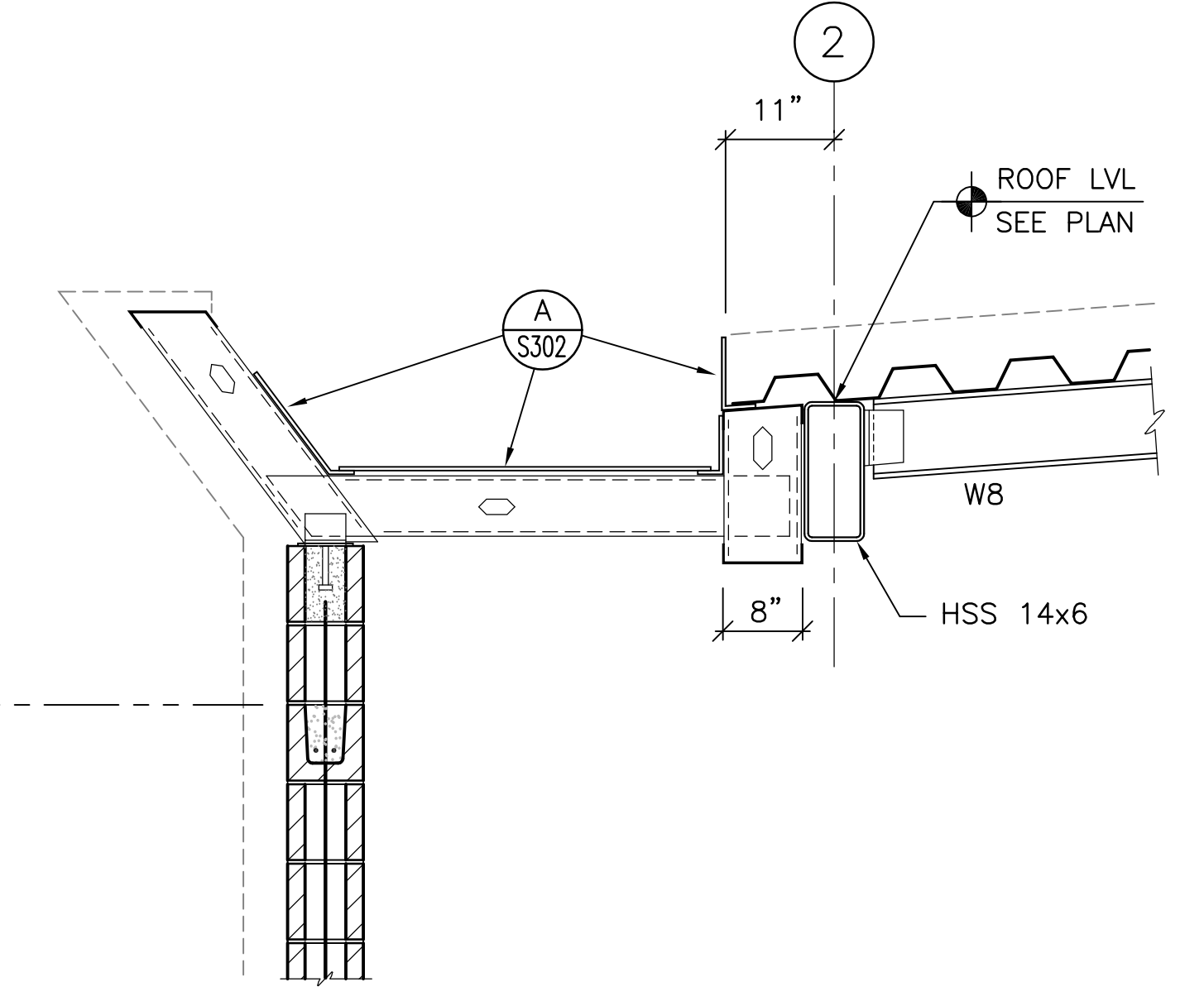
**SECTION A**  
SCALE: 3/4" = 1'-0"



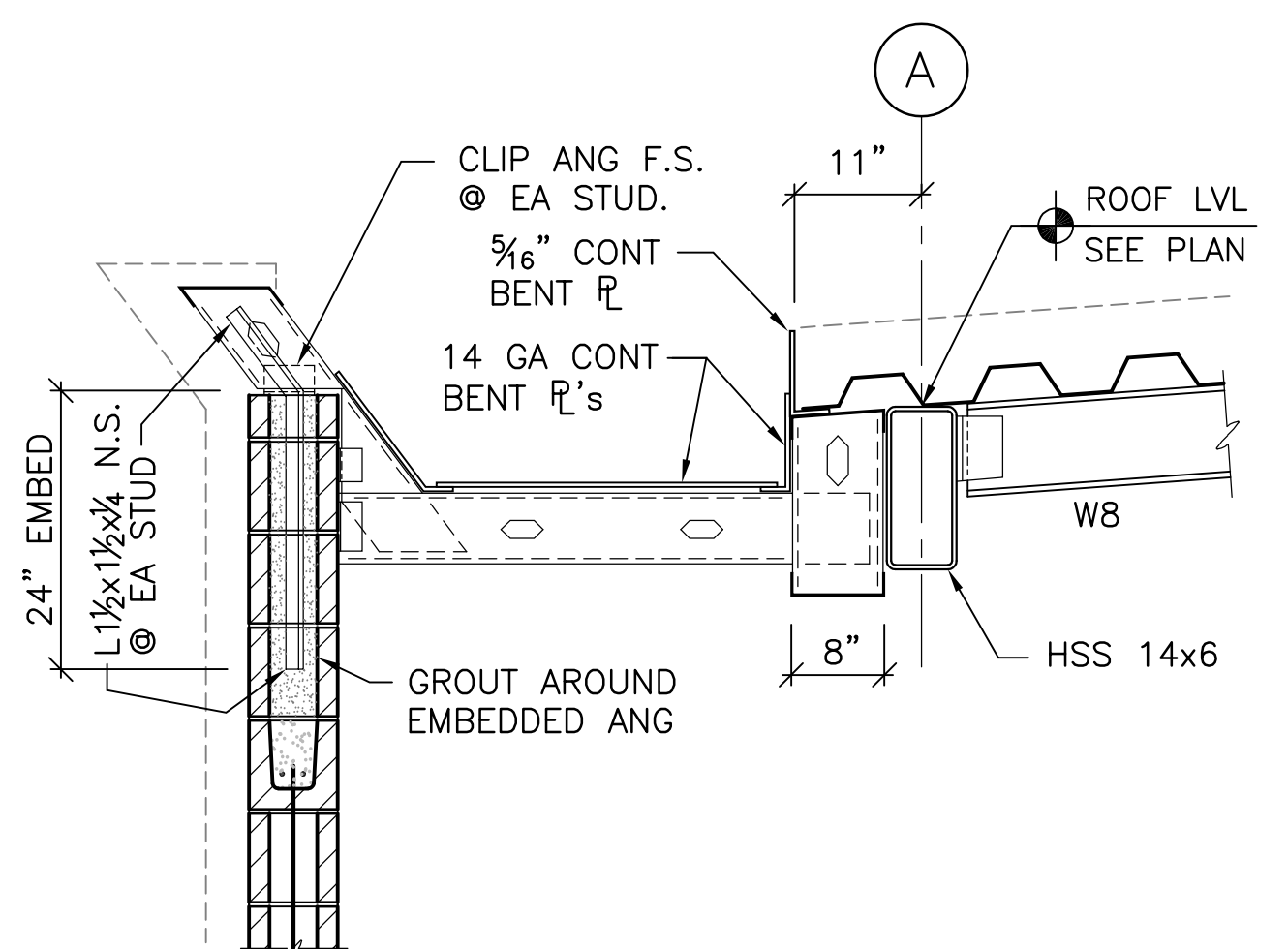
**SECTION B**  
SCALE: 3/4" = 1'-0"



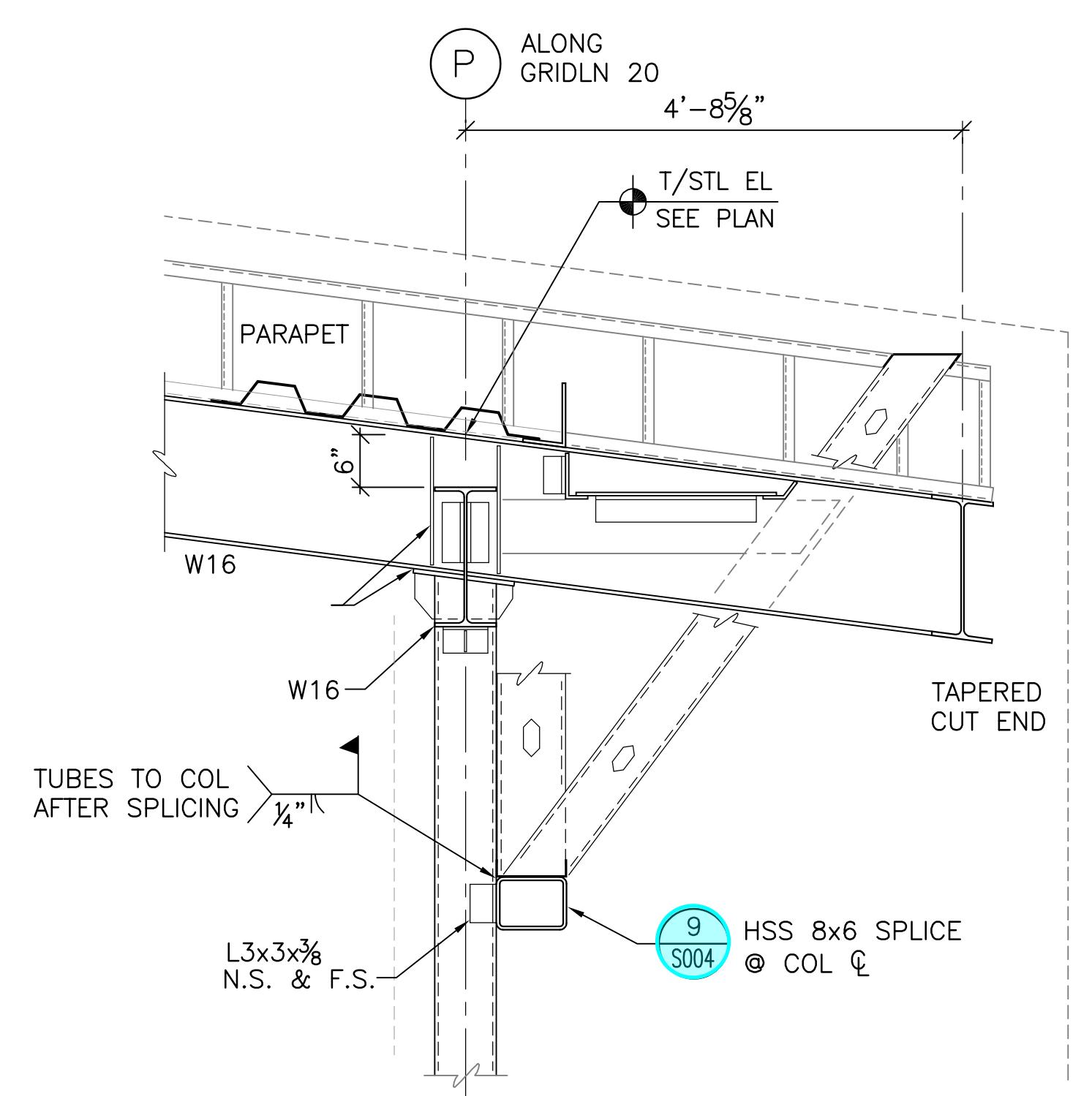
**SECTION C1**  
SCALE: 3/4" = 1'-0"



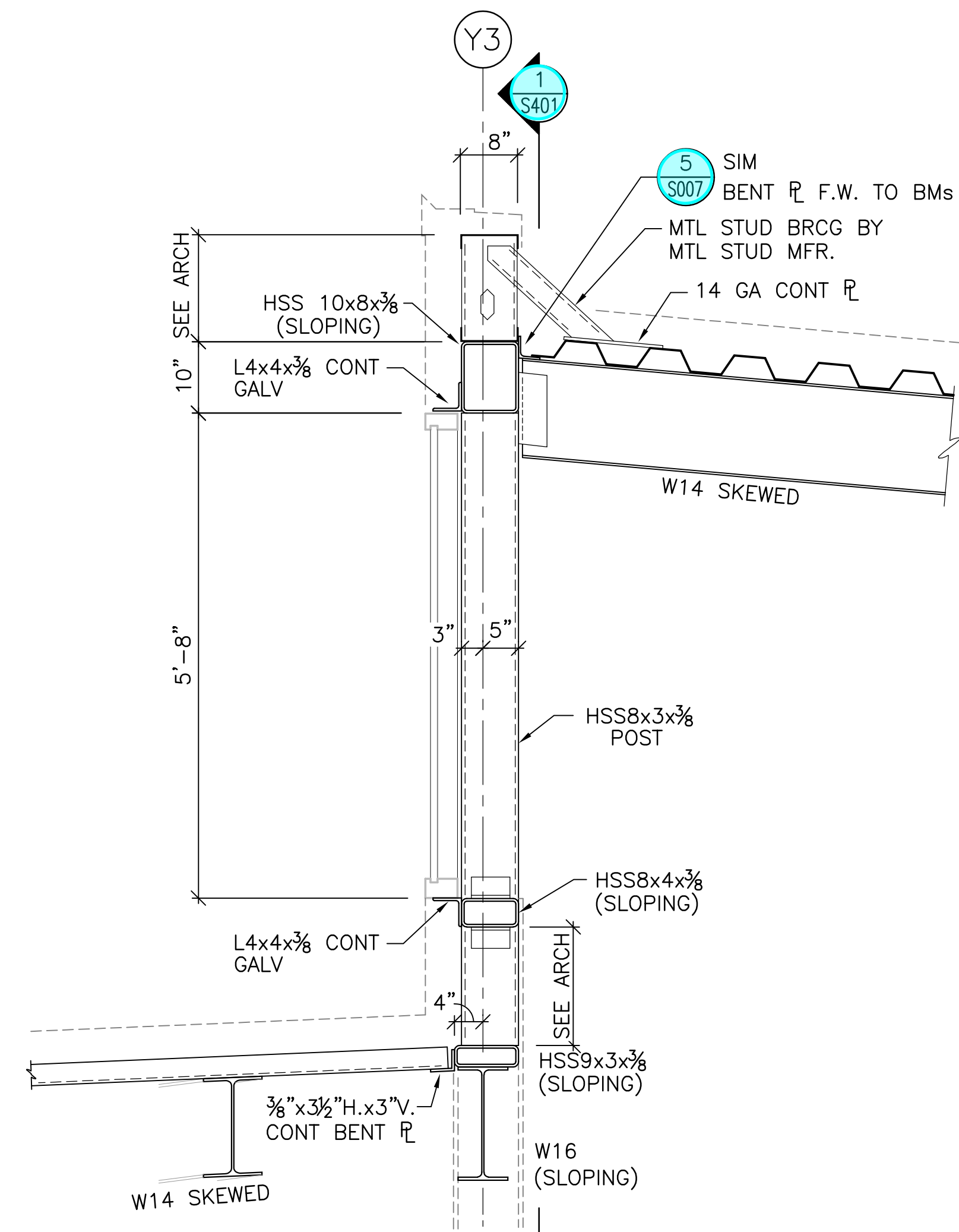
**SECTION C2**  
SCALE: 3/4" = 1'-0"



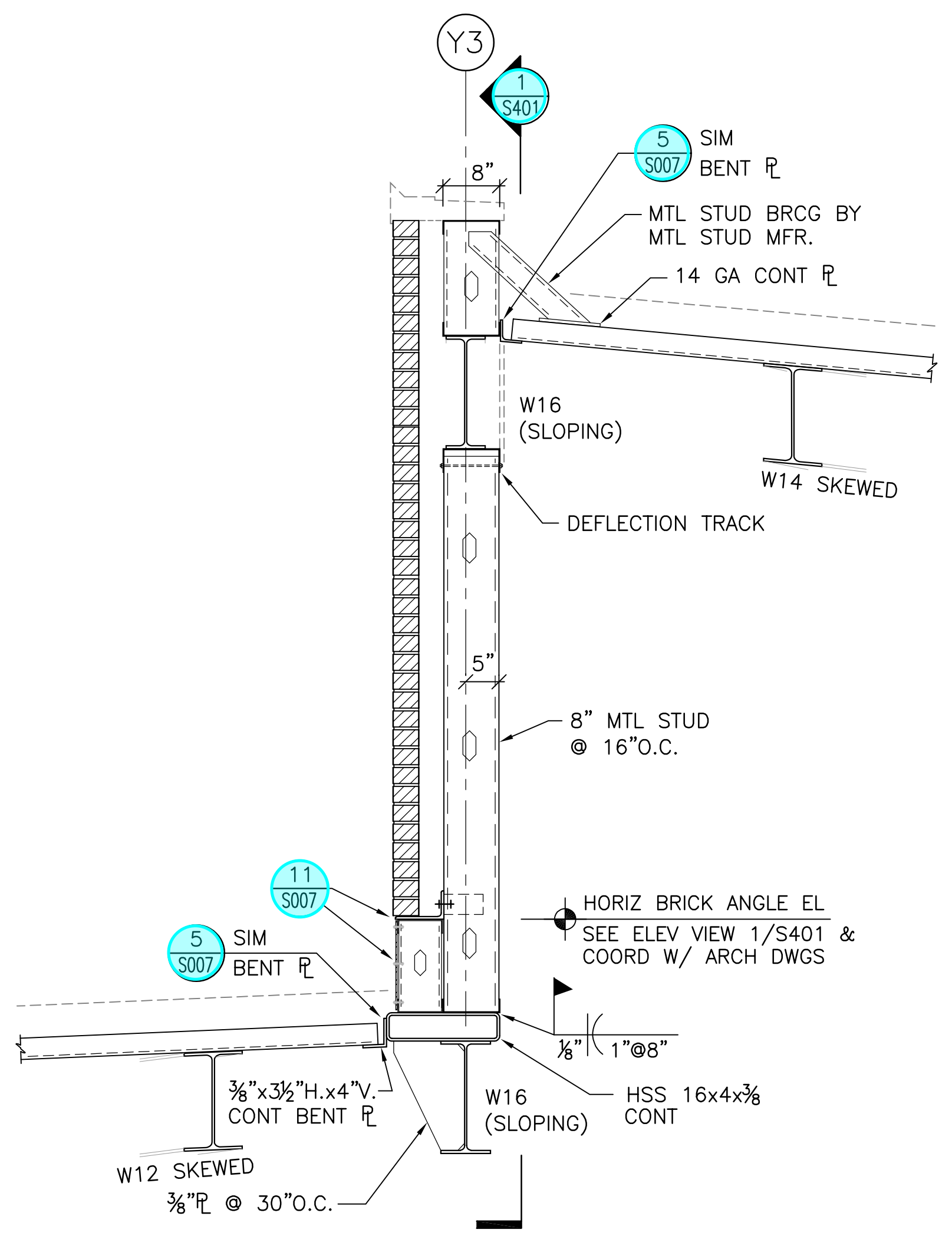
**SECTION D**  
SCALE: 3/4" = 1'-0"



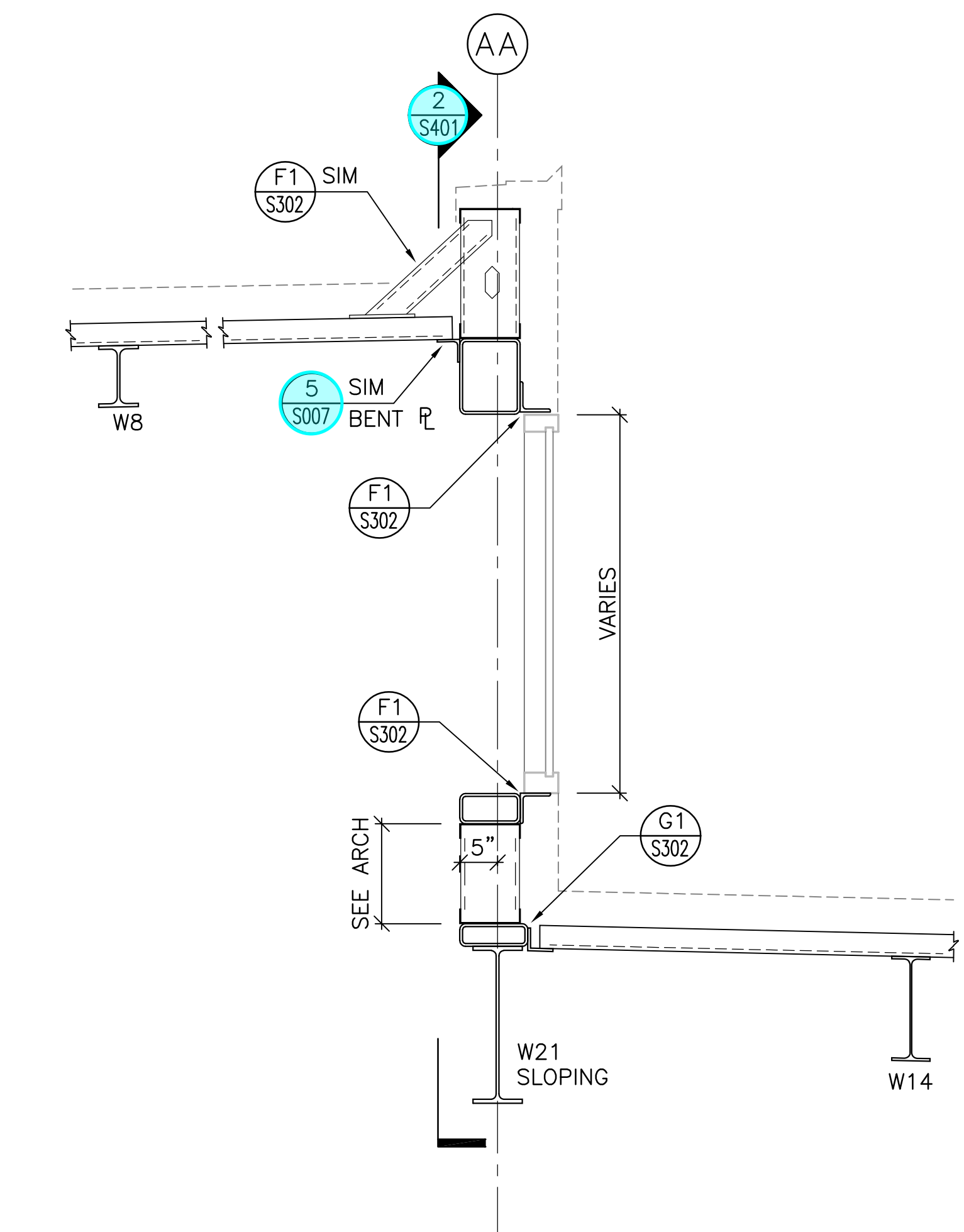
**SECTION E**  
SCALE: 3/4" = 1'-0"



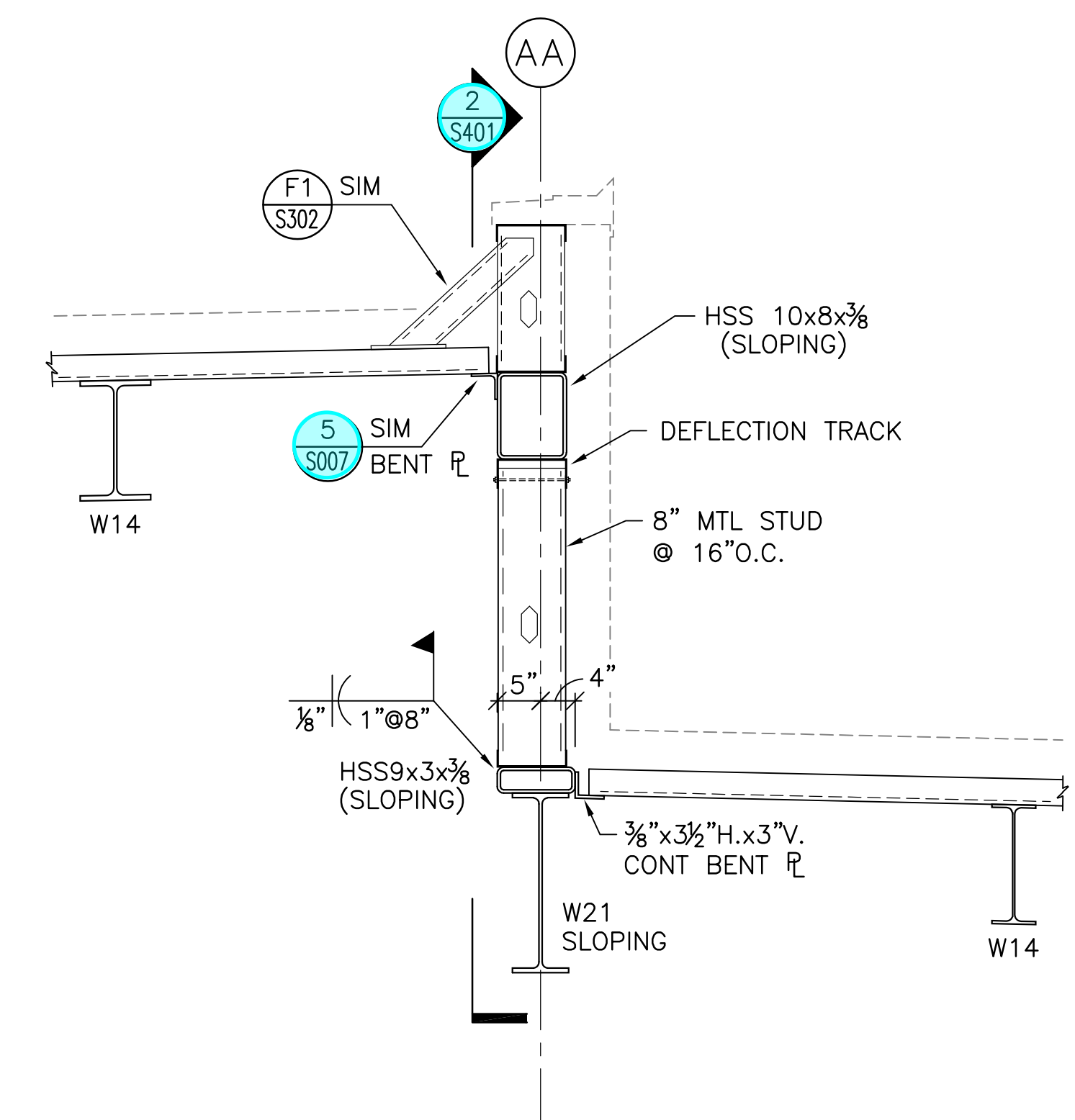
**SECTION F1**  
SCALE: 3/4" = 1'-0"



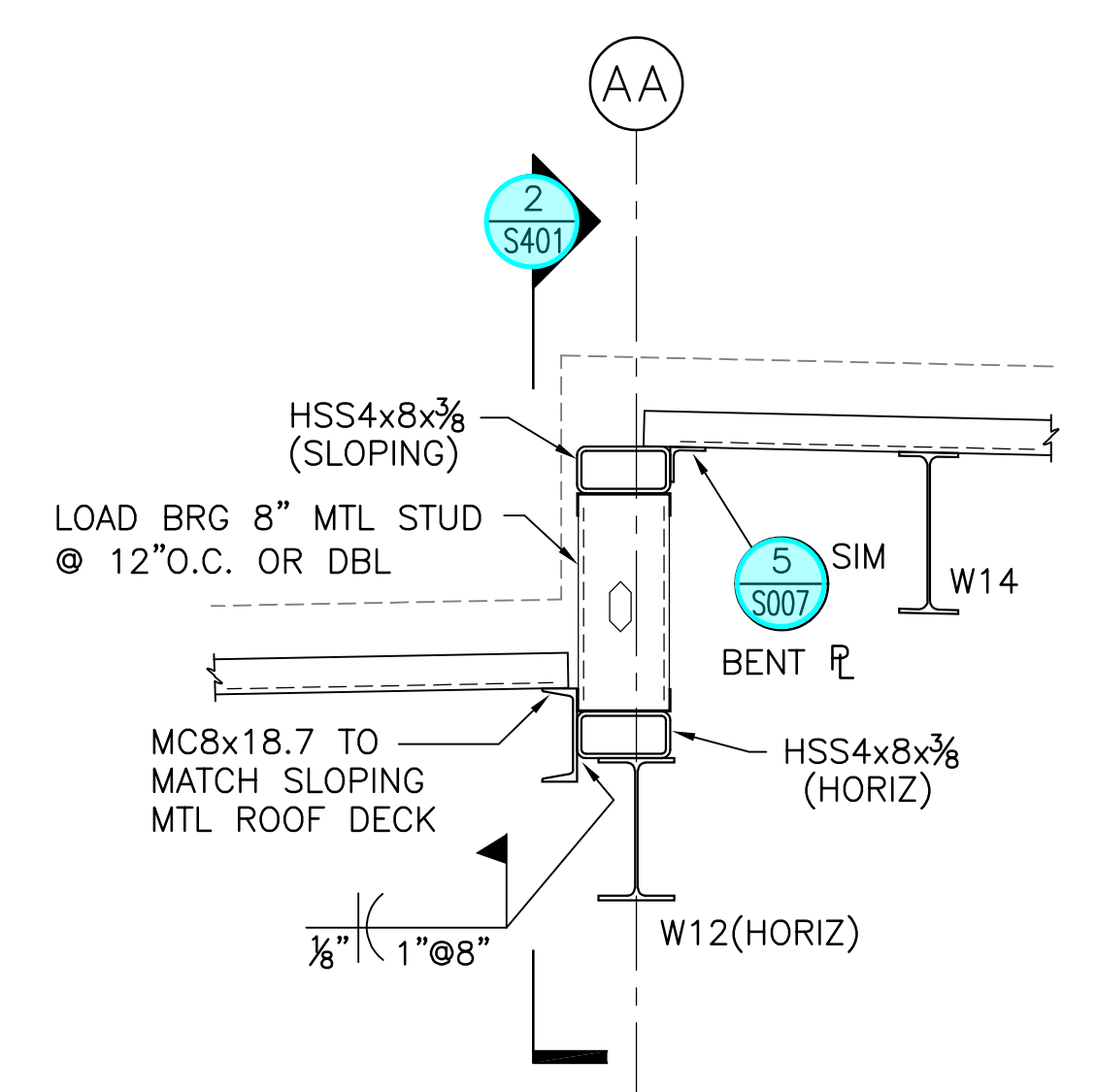
**SECTION F2**  
SCALE: 3/4" = 1'-0"



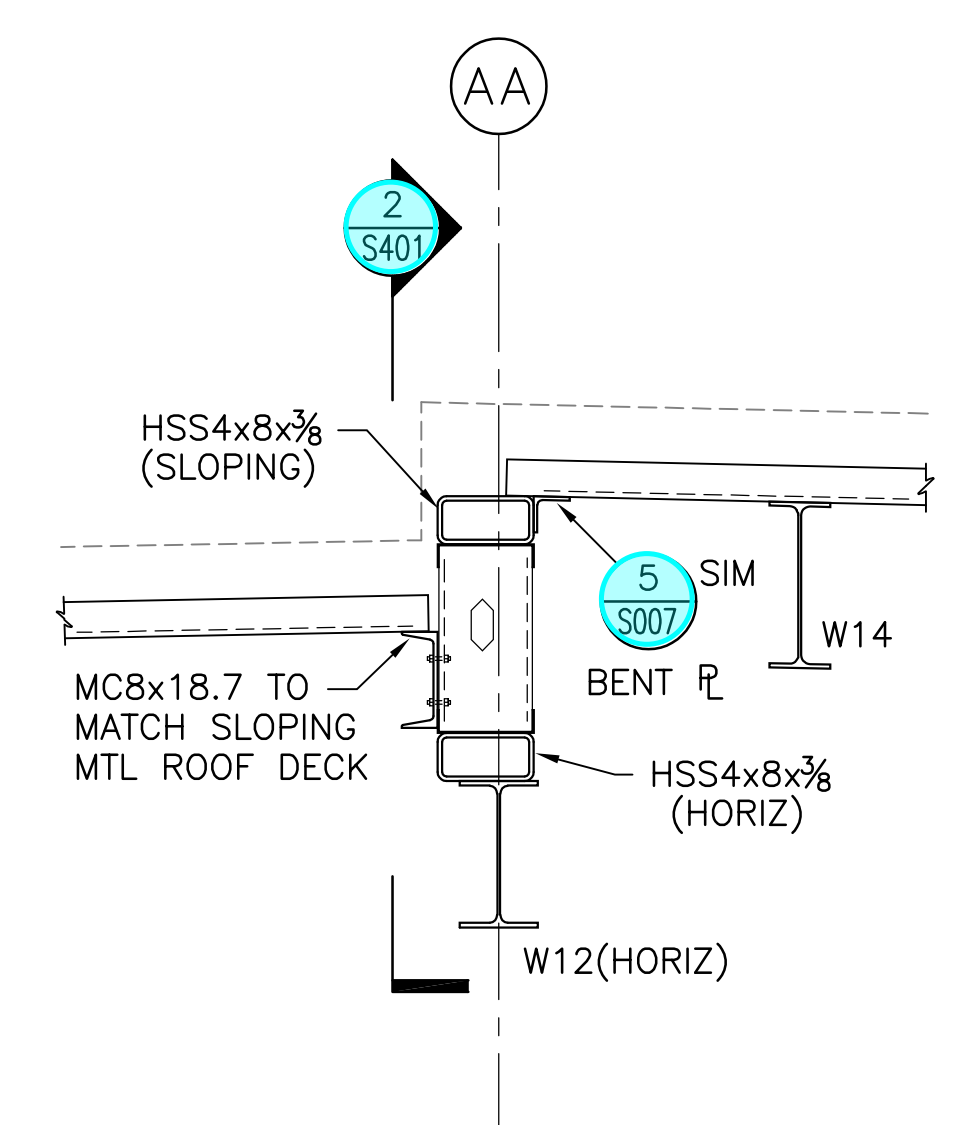
**SECTION G2**  
SCALE: 3/4" = 1'-0"



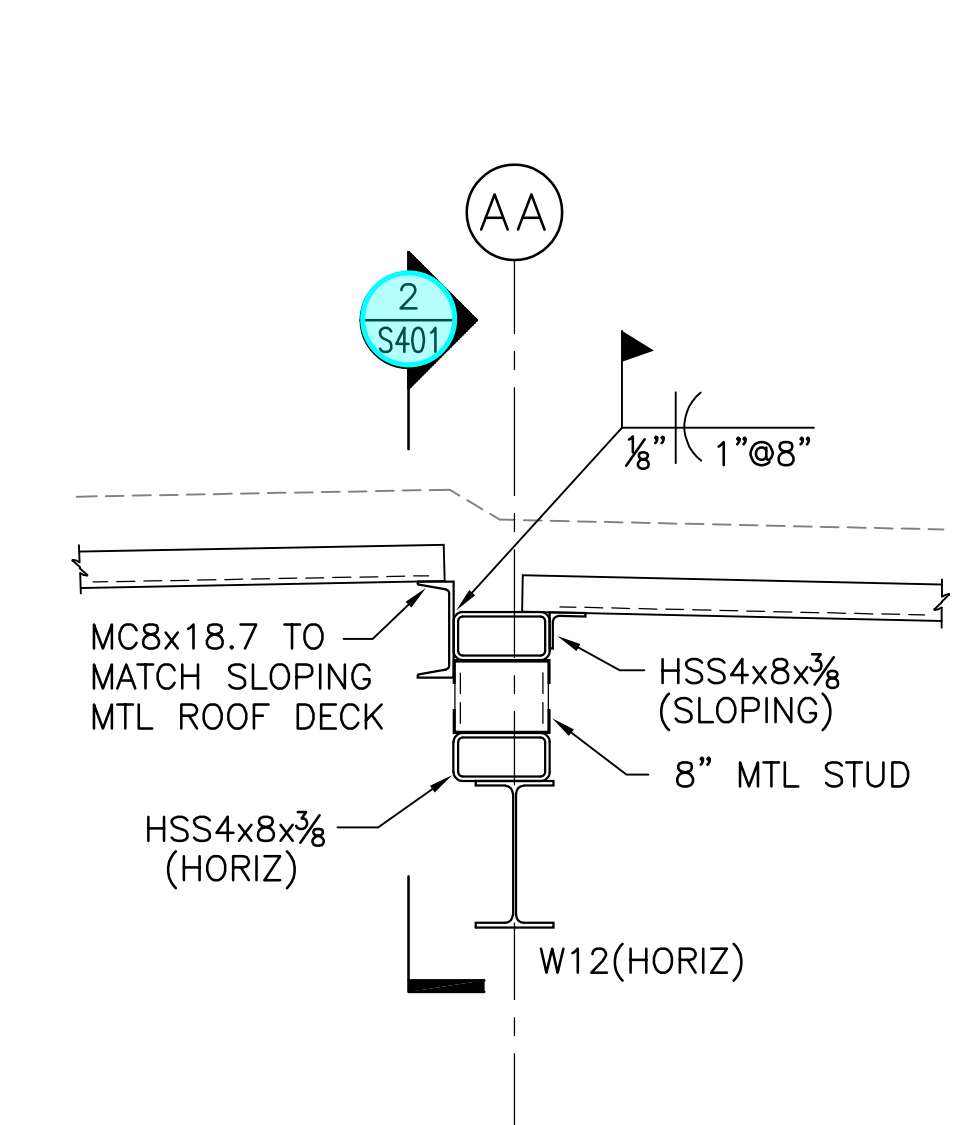
**SECTION G1**  
SCALE: 3/4" = 1'-0"



**SECTION H1**  
SCALE: 3/4" = 1'-0"



**SECTION H2**  
SCALE: 3/4" = 1'-0"



**SECTION H3**  
SCALE: 3/4" = 1'-0"

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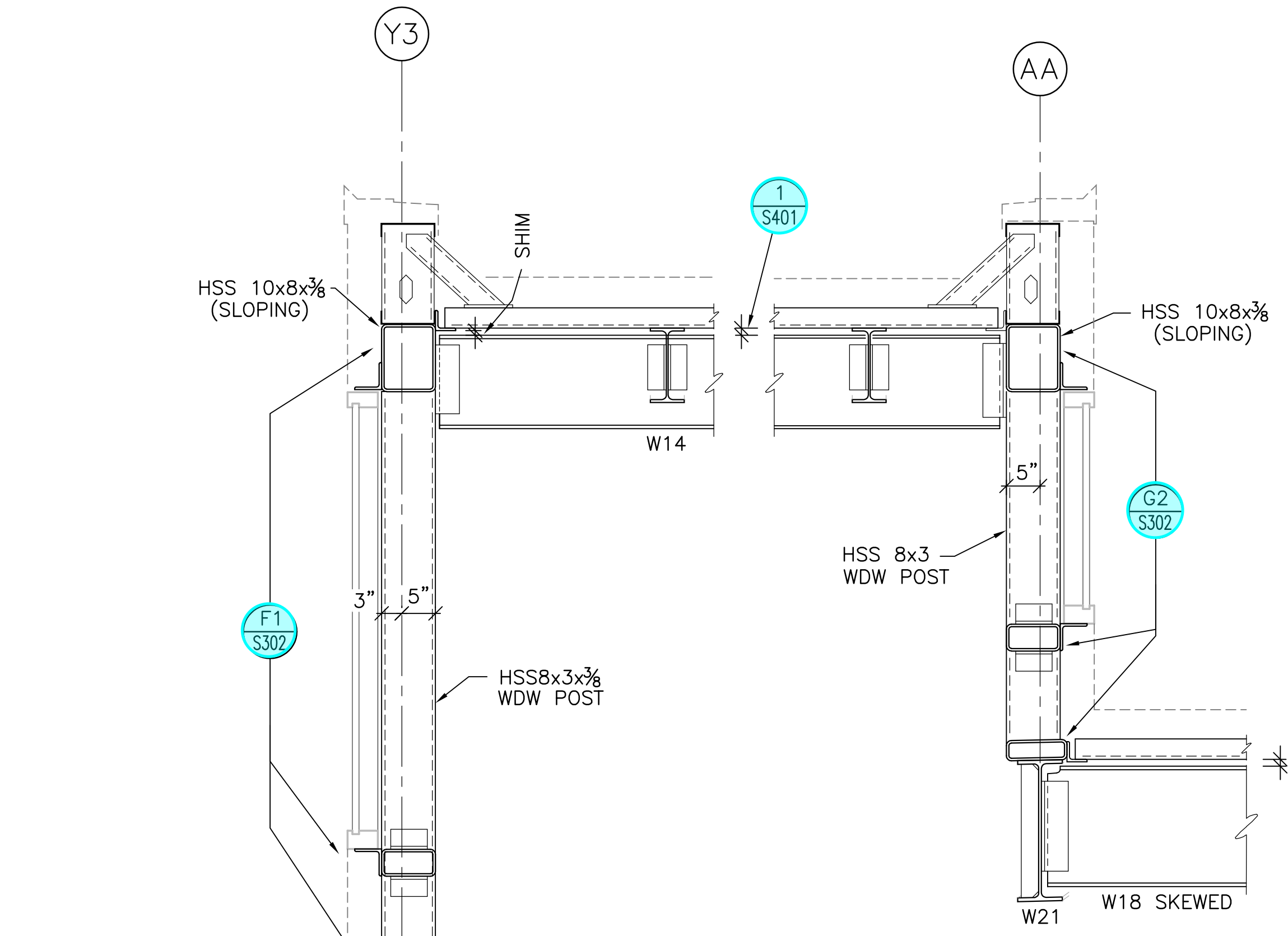
**CML KARL ROAD BRANCH**  
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COLUMBUS, OH 43229  
FOR  
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COLUMBUS, OHIO 43215  
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**SECTIONS & DETAILS**

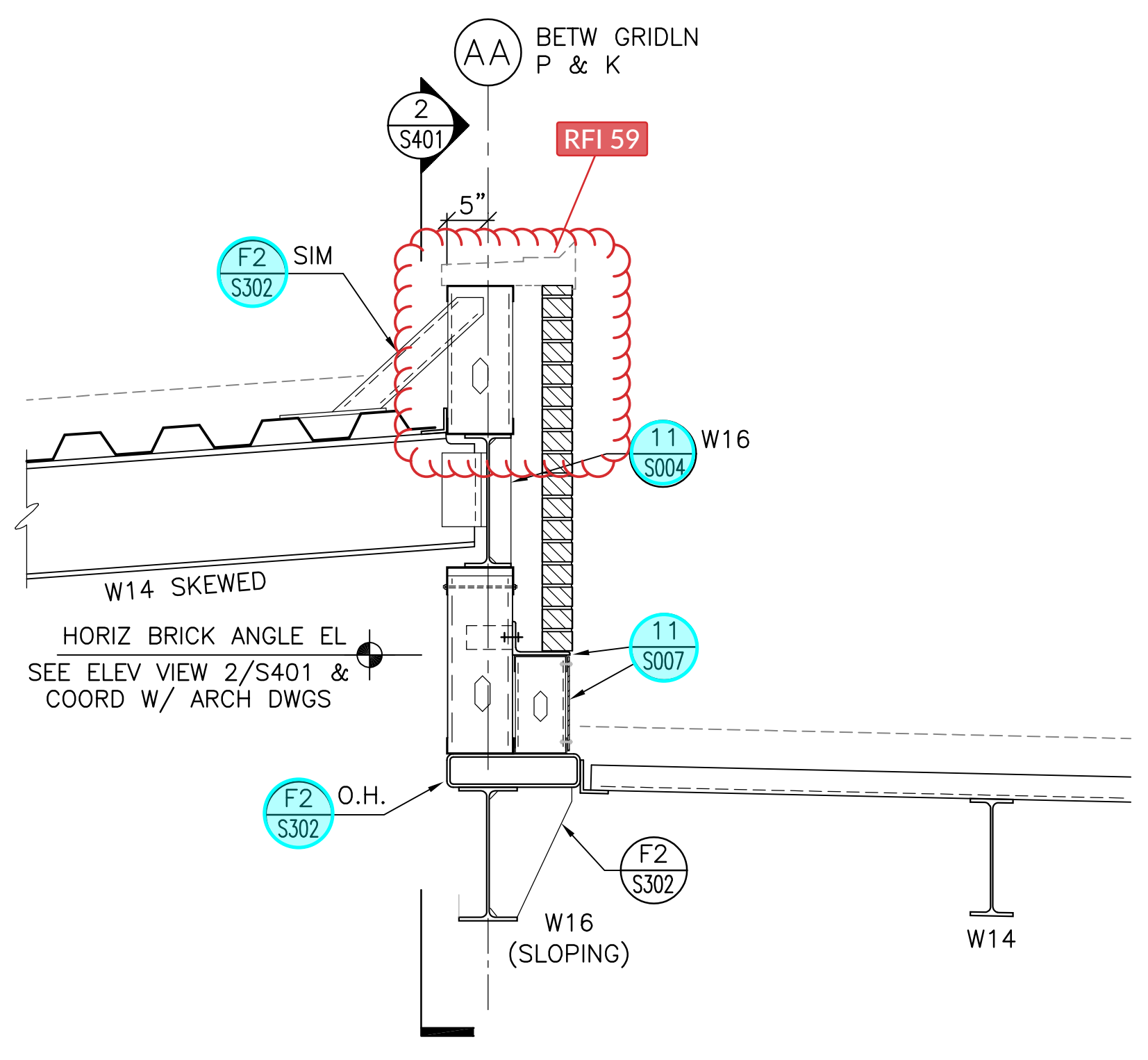
2/21/2020  
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18428  
**S302**  
PERMIT SET



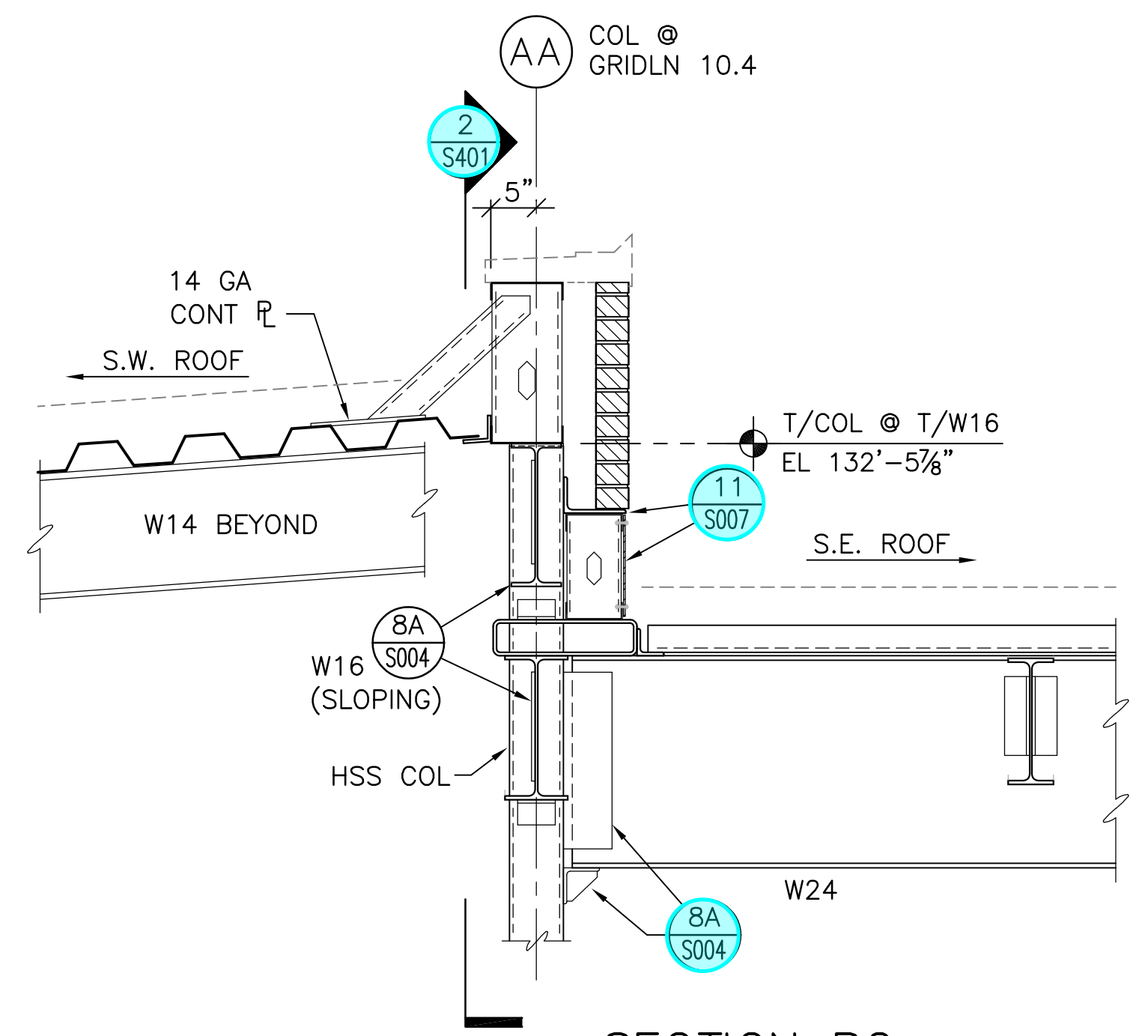


SECTION A1  
SCALE: 3/4" = 1'-0"

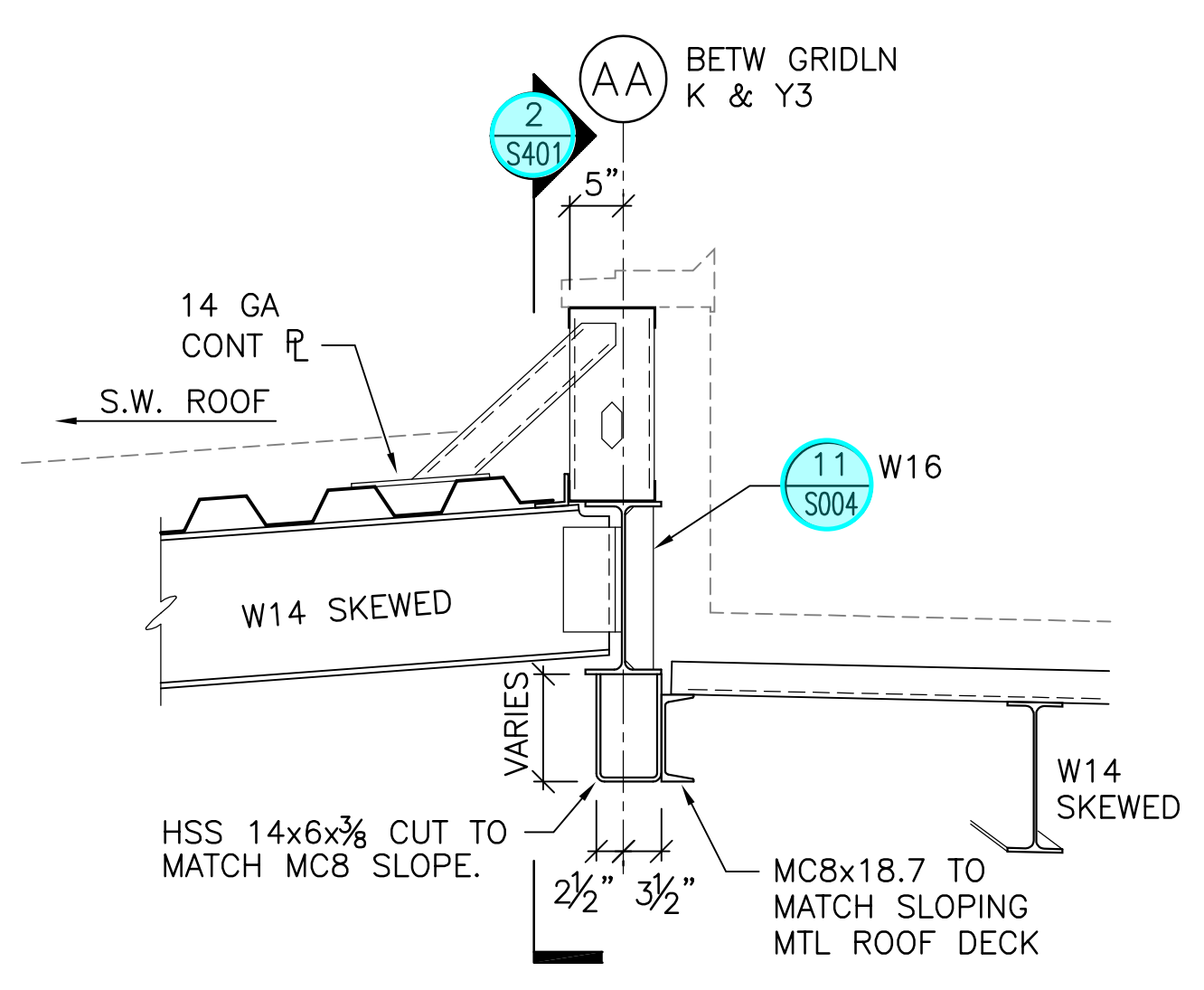
SECTION A2  
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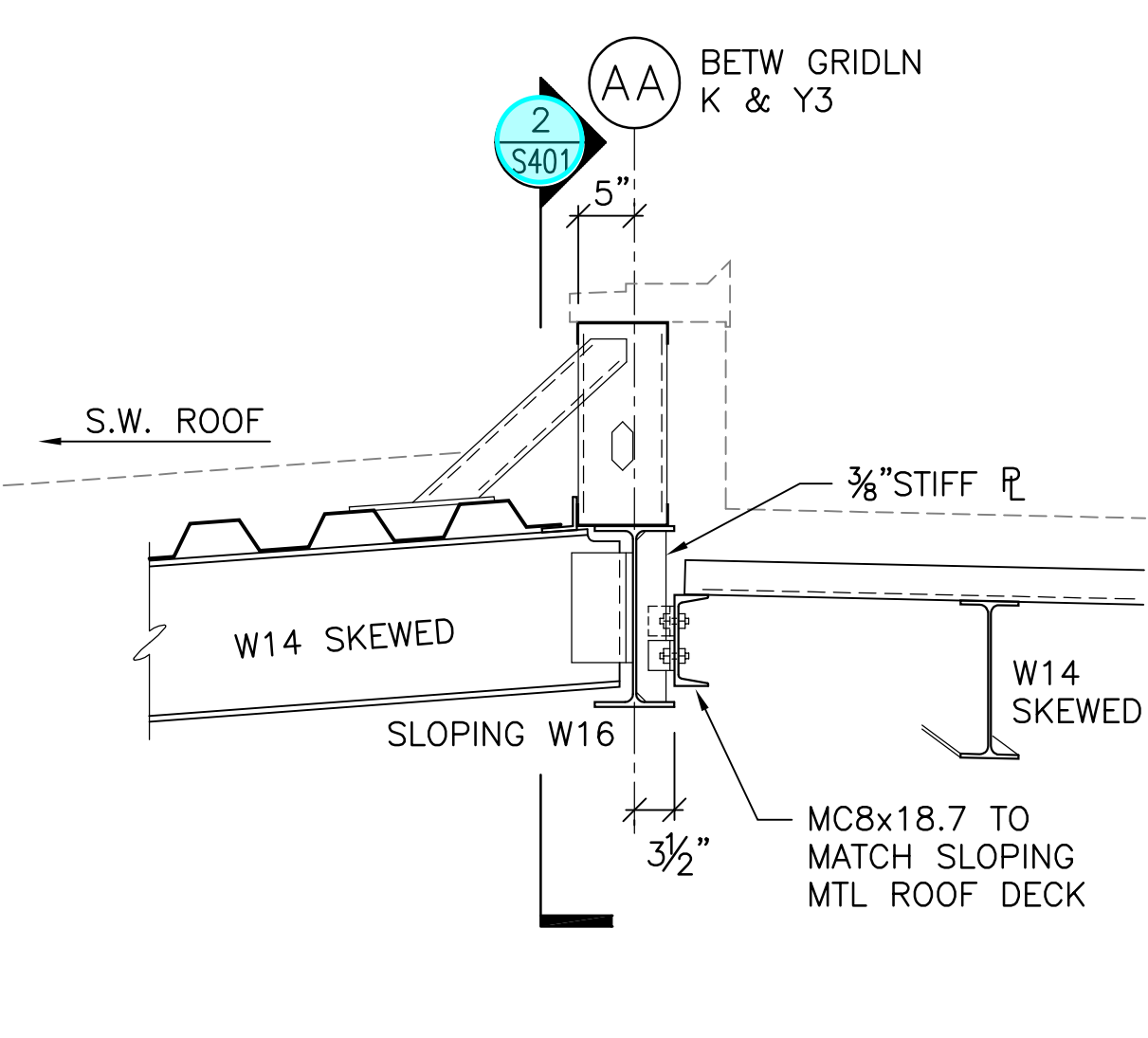
SECTION B1  
SCALE: 3/4" = 1'-0"



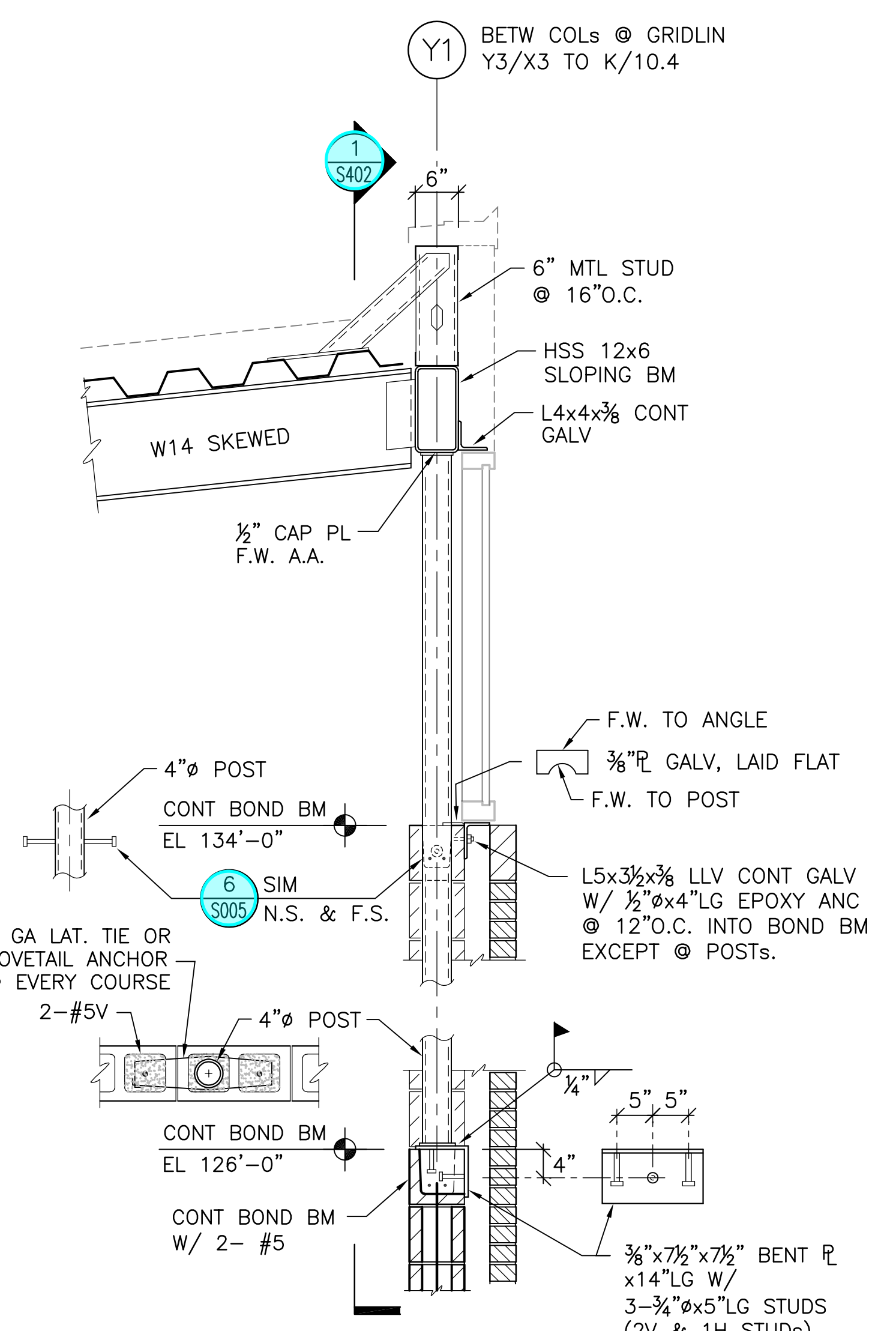
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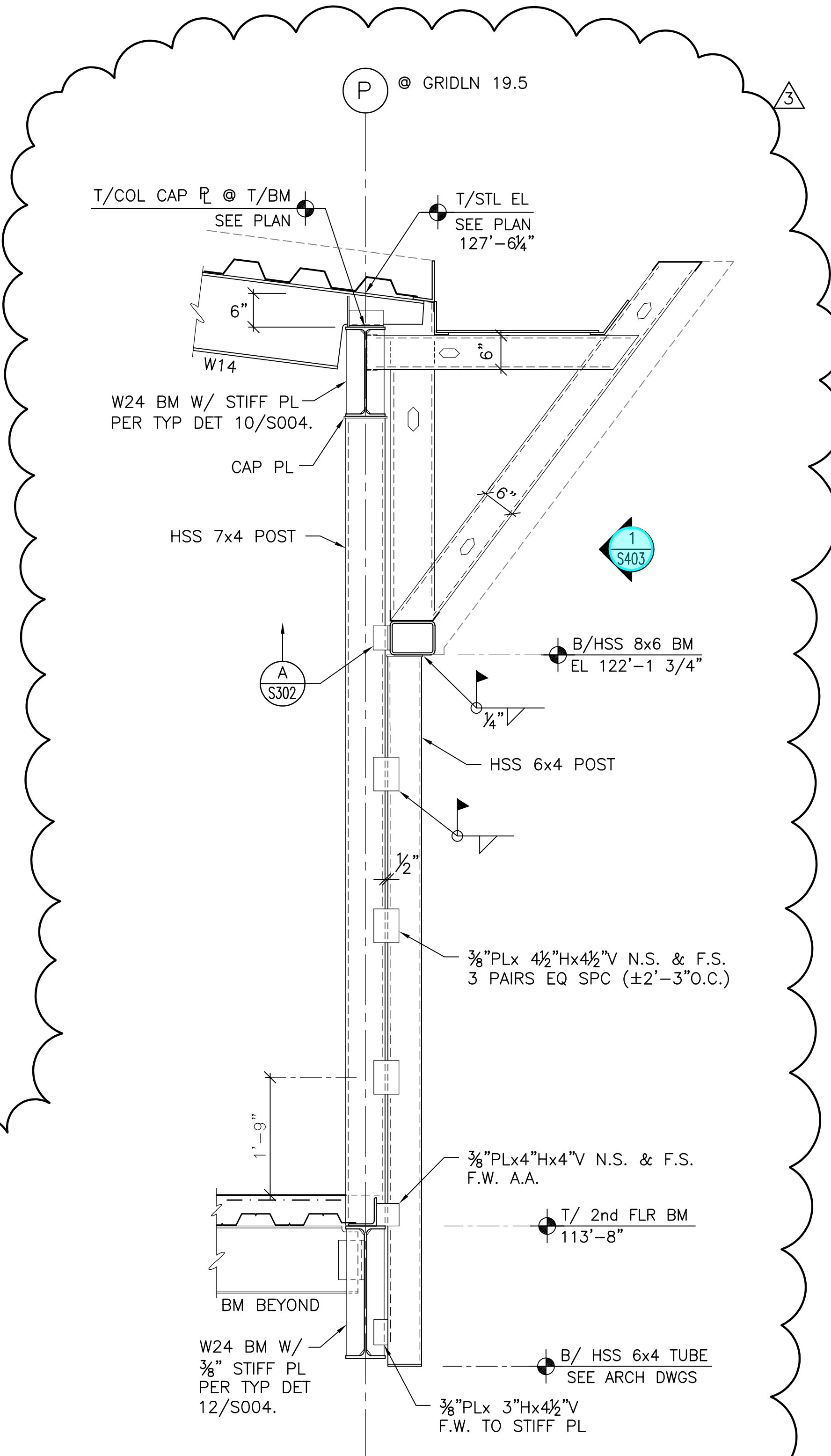
SECTION C1  
SCALE: 3/4" = 1'-0"



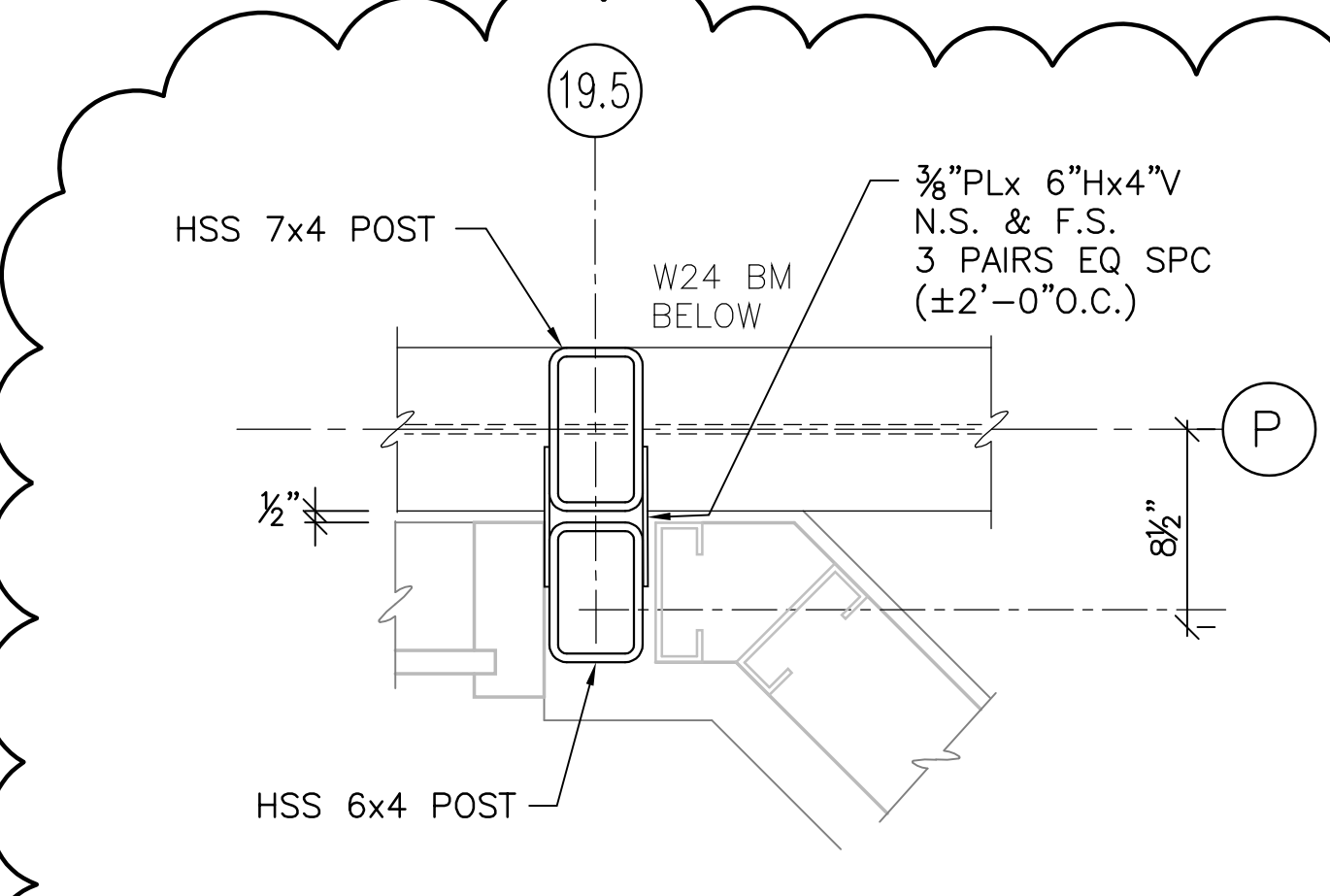
SECTION C2  
SCALE: 3/4" = 1'-0"



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



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



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

RFI 48  
Jamb Post Connection

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#	DATE	CHANGE DESCRIPTION
3	08/18/2020	BULLETIN #5

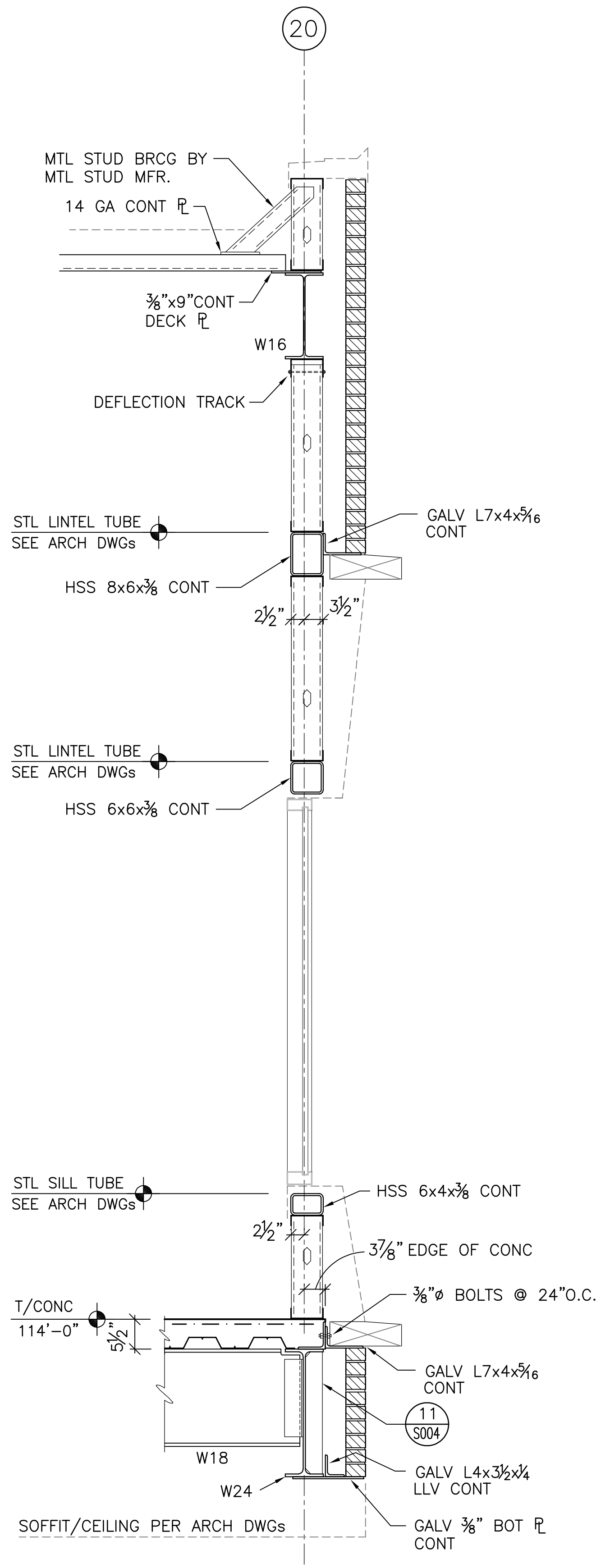
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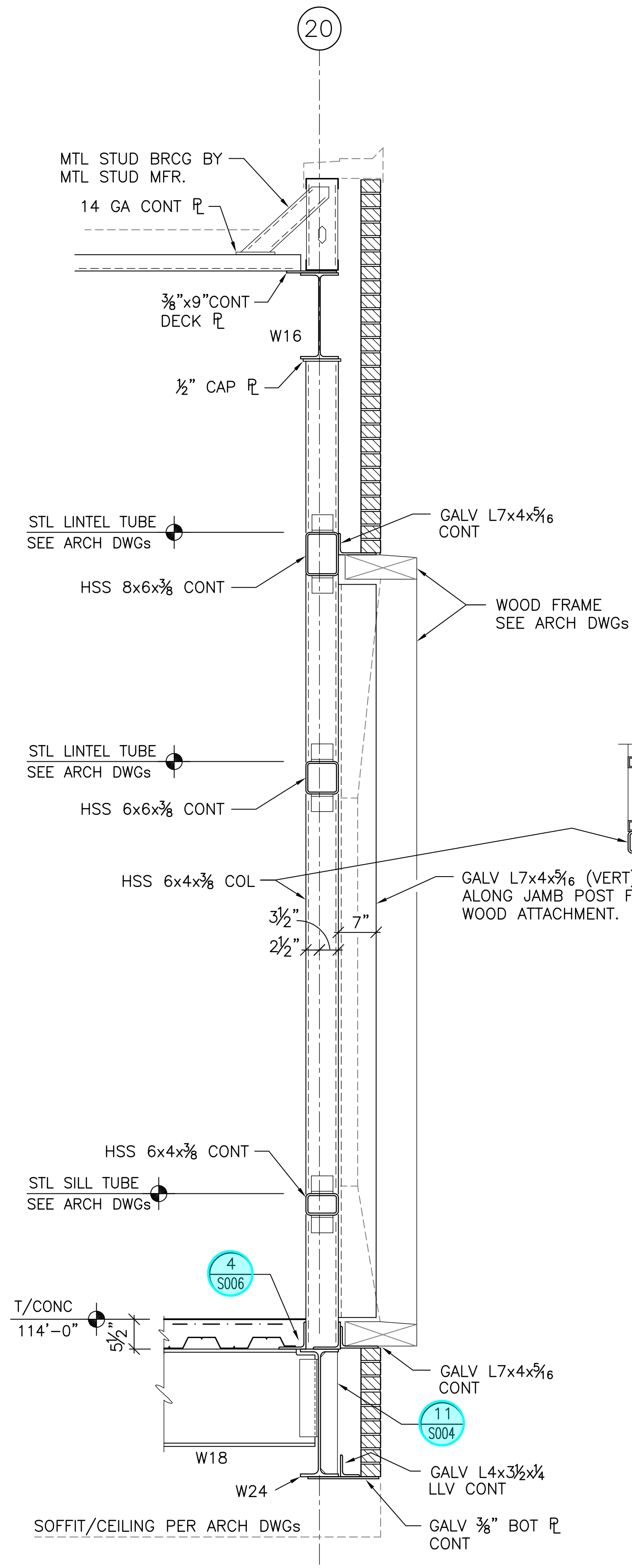
**SECTIONS & DETAILS**

08/18/2020  
DRAWN BY: AB CHECKED BY: SPS  
18428  
**S303**

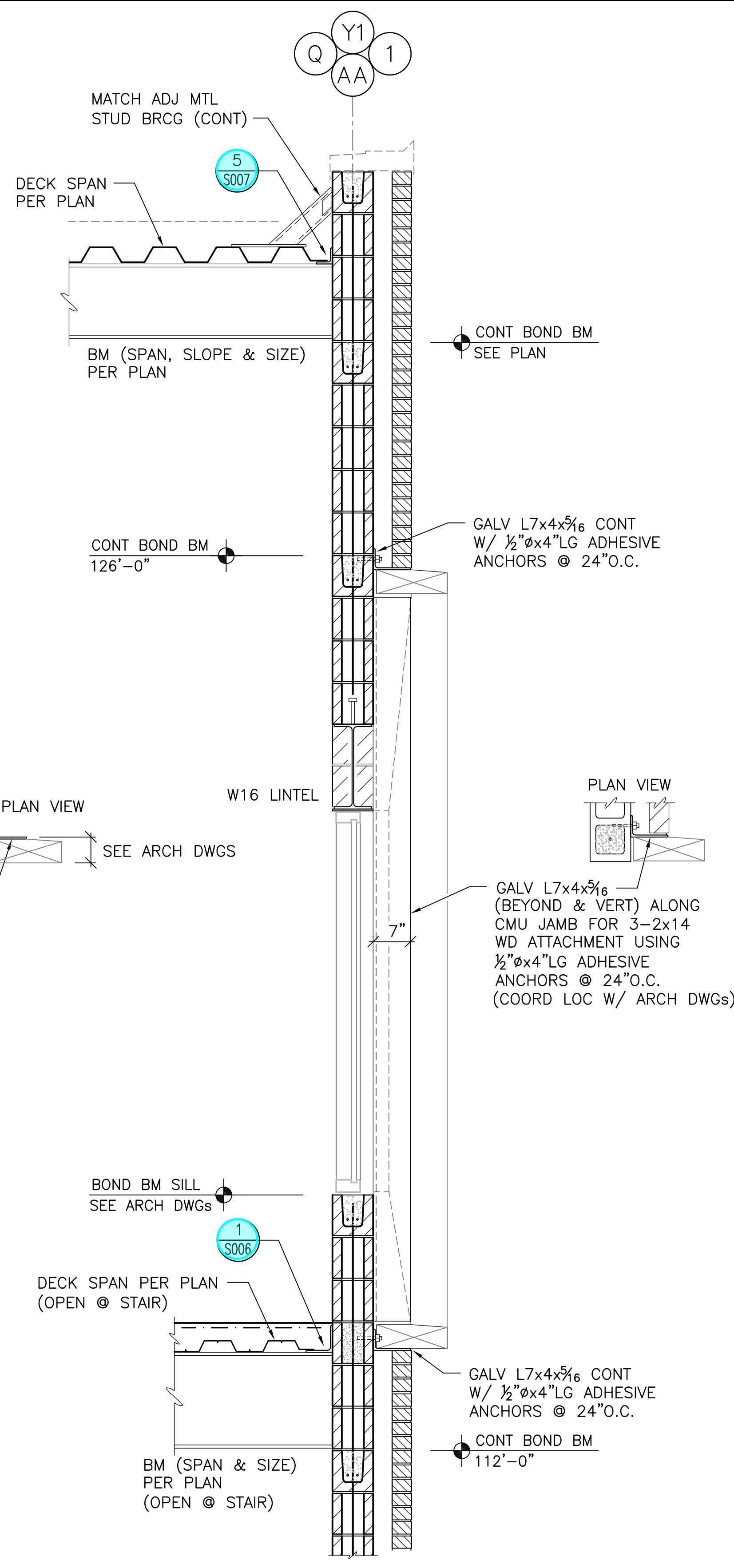




SECTION A  
SCALE: 3/4" = 1'-0"



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



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

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#	DATE	CHANGE DESCRIPTION

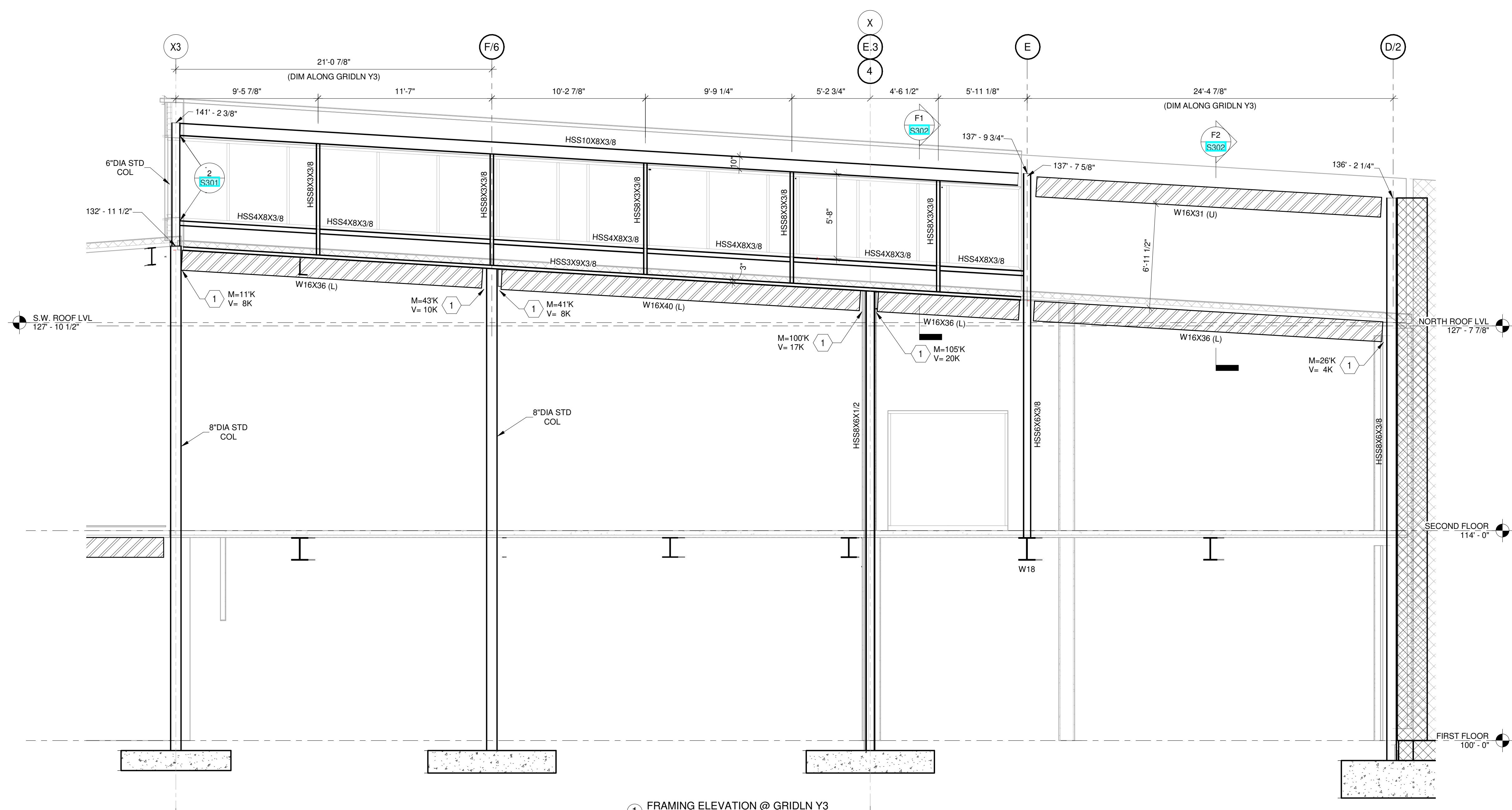
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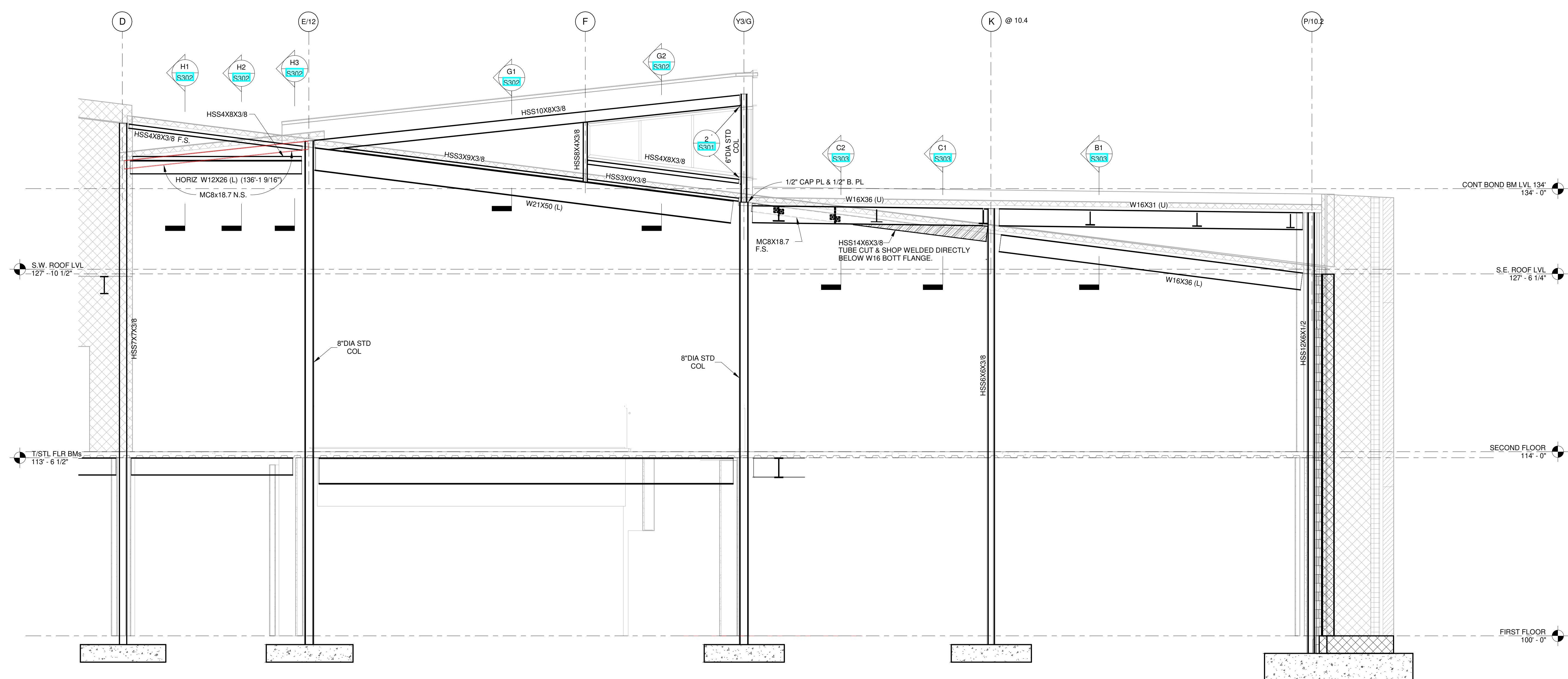
**SECTIONS & DETAILS**

2/21/2020  
DRAWN BY: AB CHECKED BY: SPS  
18428  
**S304**  
PERMIT SET





1 FRAMING ELEVATION @ GRIDLN Y3  
1/4" = 1'-0"



2 FRAMING ELEVATION @ GRIDLN AA  
1/4" = 1'-0"

KEYNOTES:  
1 BM/COL MOMENT CONN TO BE DESIGNED BY FABRICATOR'S OH P.E. USING THE MOMENT & SHEAR VALUES SHOWN.

RFI 56  
Roof Framing Clarifications

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#	DATE	CHANGE DESCRIPTION
1	01/24/2020	Addenda #2

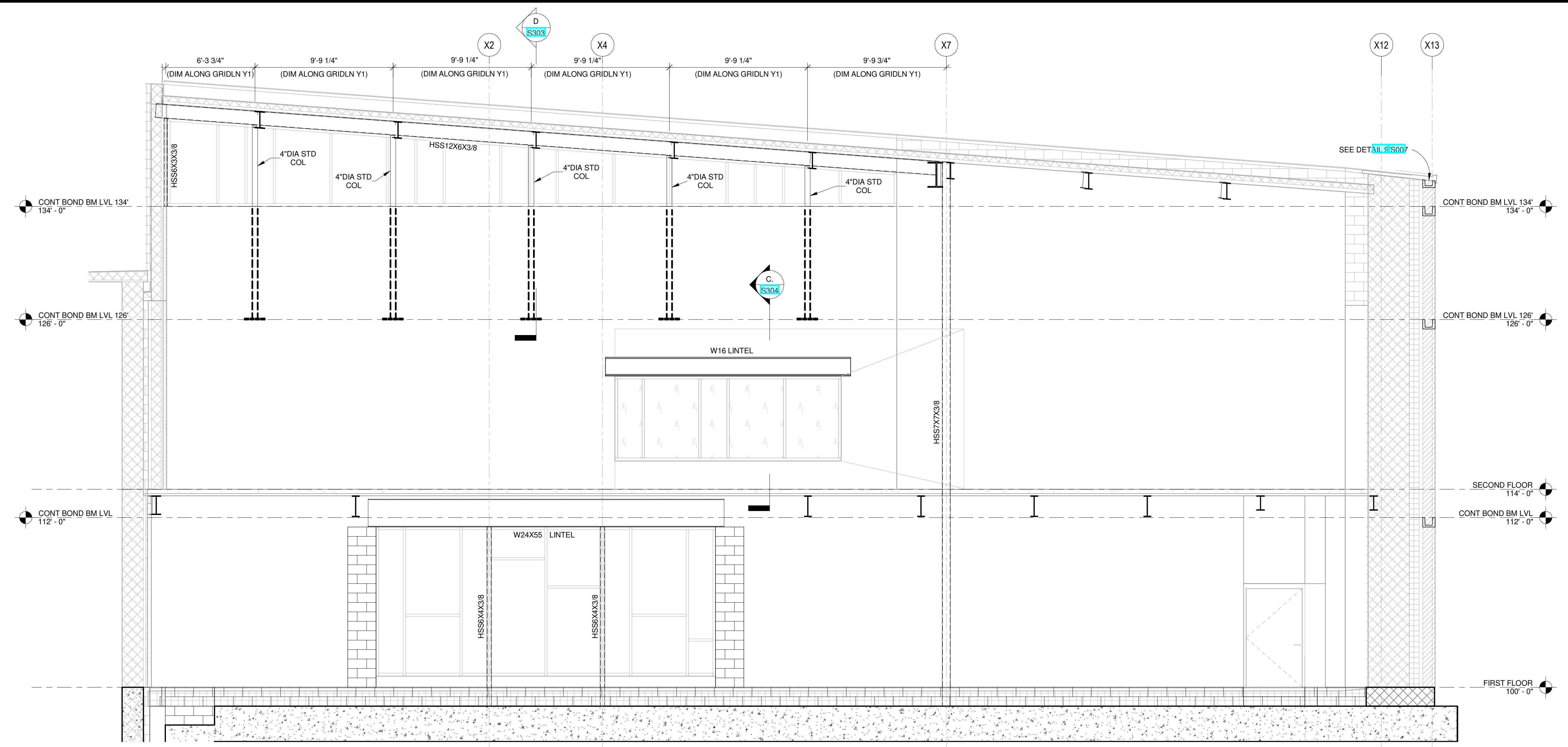
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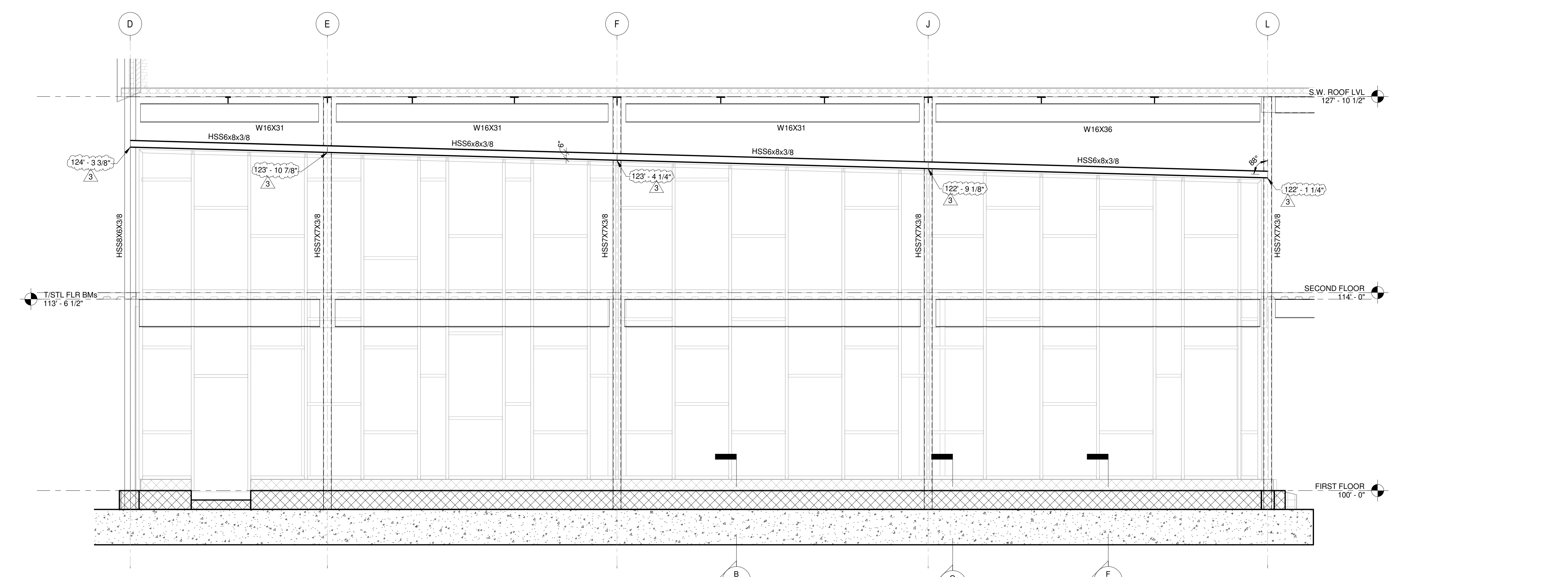
DRAWING TITLE:  
**FRAMING ELEVATIONS**

2/21/2020  
DRAWN BY: AB CHECKED BY: SPS  
18428  
**S401**  
PERMIT SET





1 FRAMING ELEVATION @ GRIDLN Y1  
1/4" = 1'-0"



2 FRAMING ELEVATION @ GRIDLN 2  
1/4" = 1'-0"

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#	DATE	CHANGE DESCRIPTION
1	01/24/2020	Issuance #2
3	08/18/2020	Bulletin #5

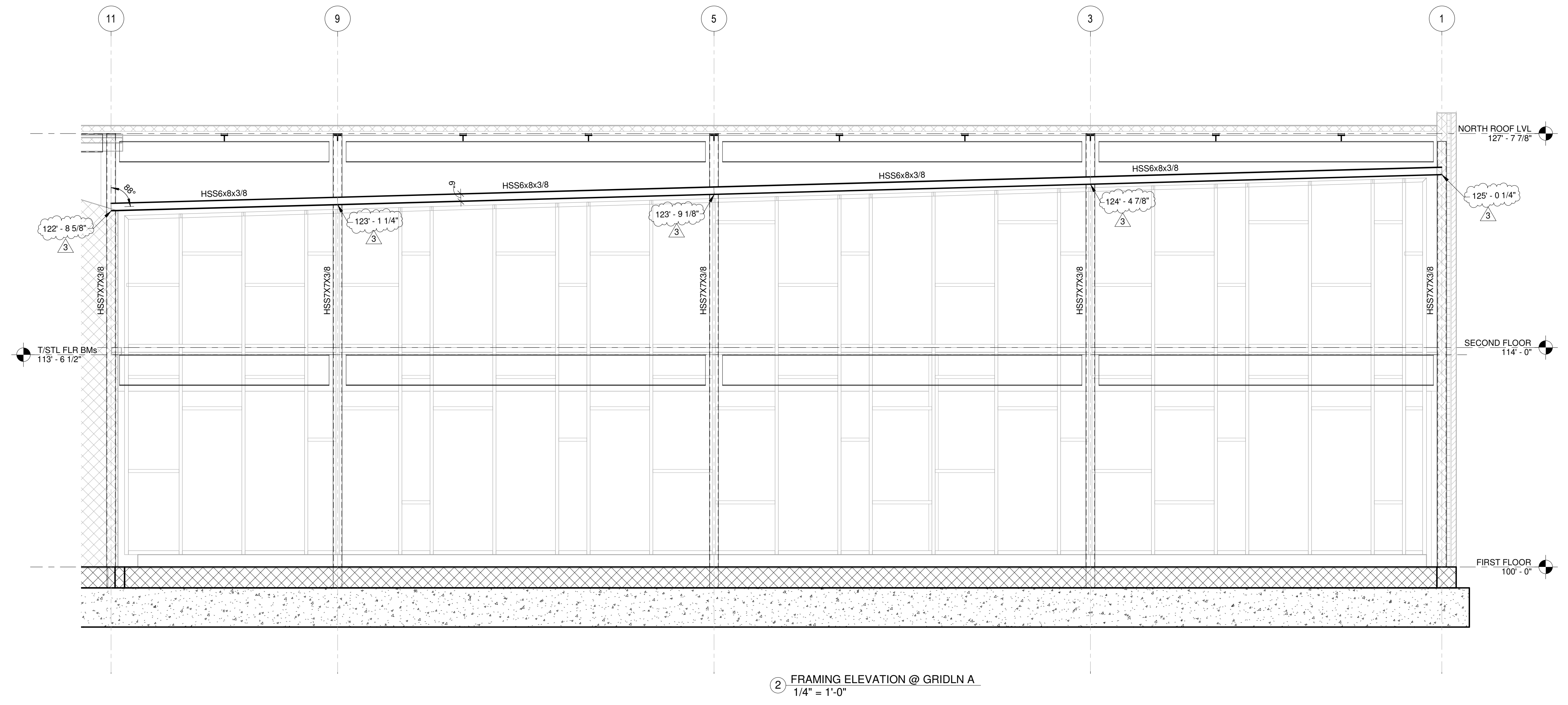
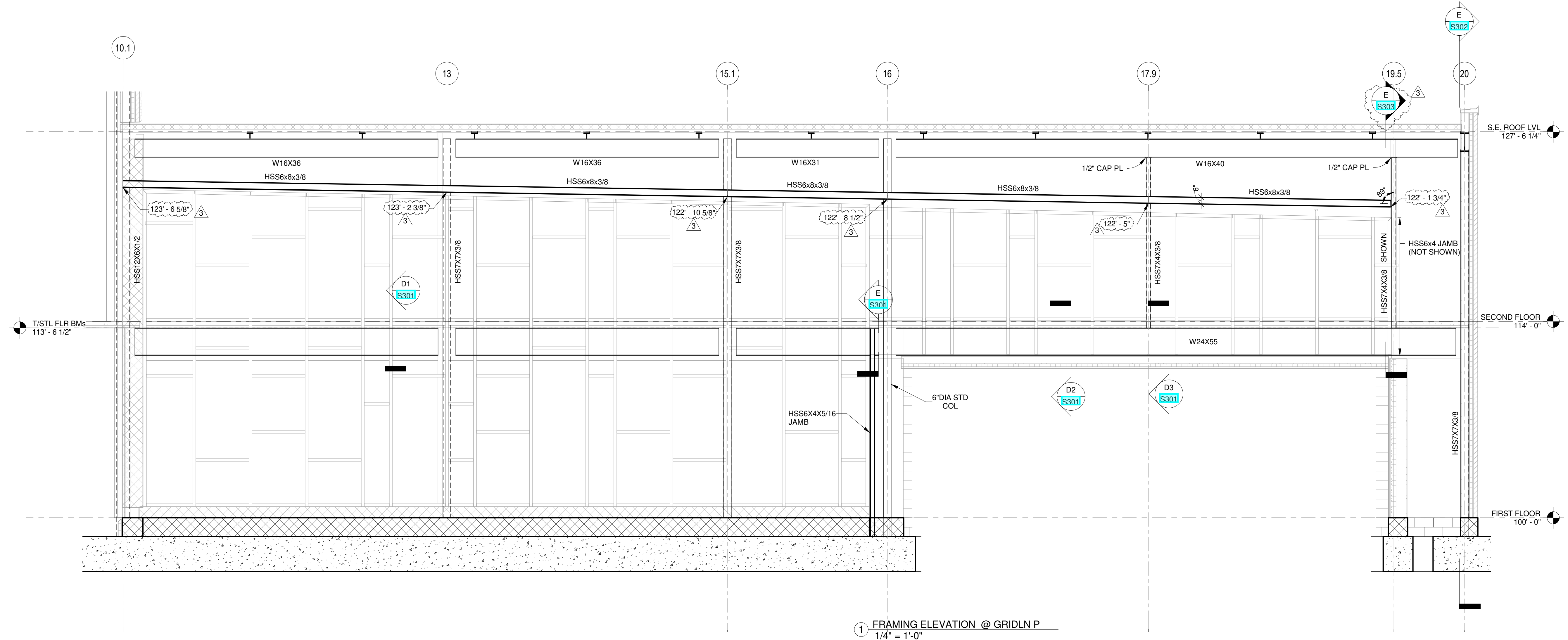
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DRAWING TITLE:  
**FRAMING ELEVATIONS**

8/18/2020  
DRAWN BY: Author CHECKED BY: Checker  
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**S402**





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#	DATE	CHANGE DESCRIPTION
3	08/18/2020	Bulletin #5

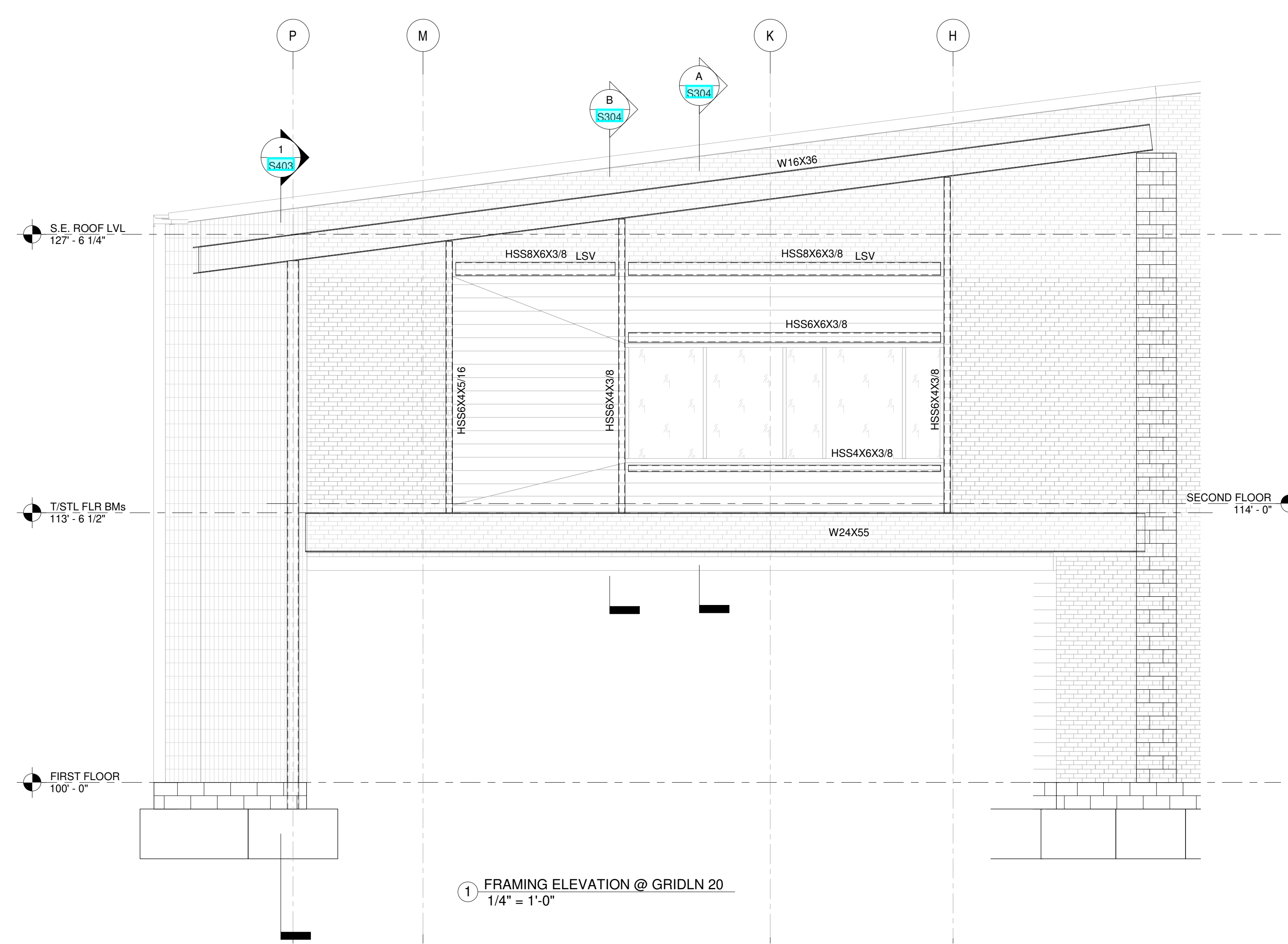
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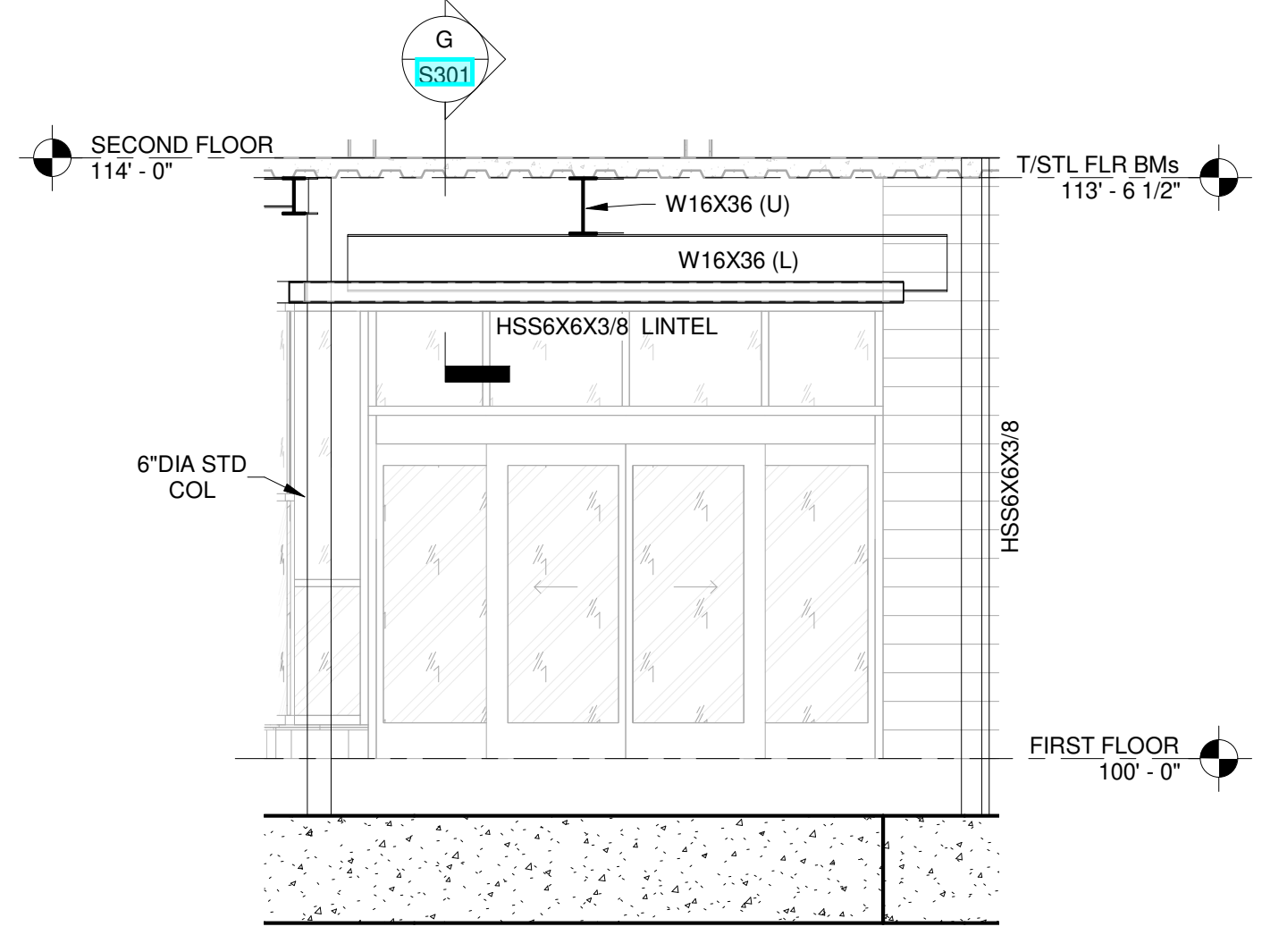
DRAWING TITLE:  
**FRAMING ELEVATIONS**

8/18/2020  
DRAWN BY: Author CHECKED BY: Checker  
18428  
**S403**

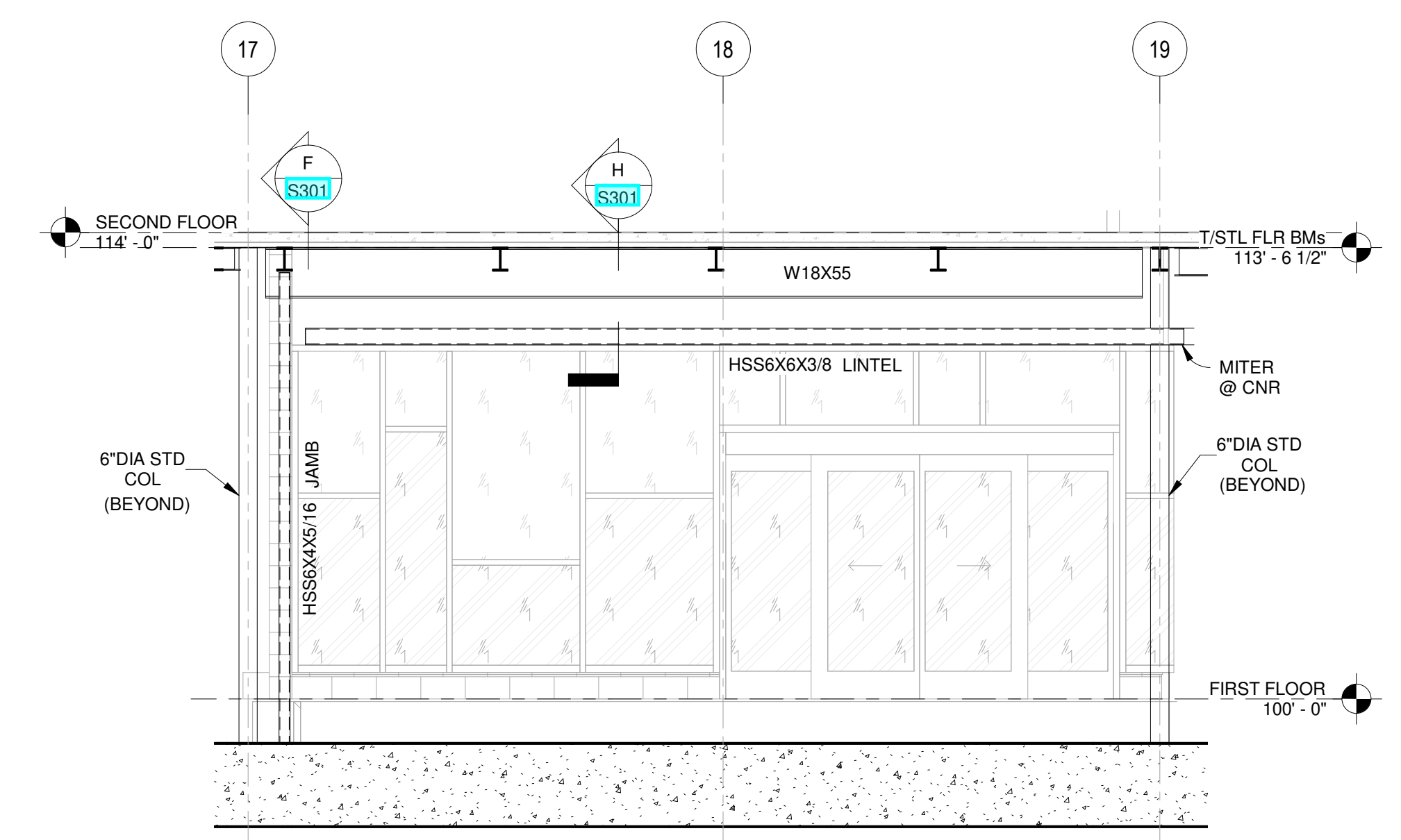




1 FRAMING ELEVATION @ GRIDLN 20  
1/4" = 1'-0"



2 FRAMING ELEVATION @ GRIDLN XY  
1/4" = 1'-0"



3 FRAMING ELEVATION @ GRIDLN M  
1/4" = 1'-0"

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DRAWING TITLE:  
**FRAMING ELEVATIONS**

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DRAWN BY: Author CHECKED BY: Checker
18428
<b>S404</b>
PERMIT SET