

STRUCTURAL GENERAL NOTES CONT'D



1300 East 6th Street Little Rock, AR 72202
501.372.2900 cromwell.com

H. MASONRY WALLS:

- THE DESIGN OF THE MASONRY WALLS IS BASED ON TMS 402-16 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
- SPECIFIED DESIGN COMPRESSIVE STRENGTH: $f_m \approx 2,000$ PSI. PER THE UNIT STRENGTH METHOD.
- CONCRETE BLOCK SHALL CONFORM TO ASTM C-90, NORMALWEIGHT UNITS.
- MORTAR SHALL CONFORM TO ASTM C-270.
 - TYPE S: LOAD-BEARING WALL
- GROUT SHALL CONFORM TO ASTM C476. GROUT SLUMP SHALL BE BETWEEN 9" AND 11". MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 2500 PSI.
- PROVIDE TEMPORARY BRACING FOR ALL MASONRY WALLS UNTIL PERMANENT LATERAL SUPPORT IS COMPLETE.
- PIPES, CONDUIT, AND OTHER ITEMS SHALL NOT BE PLACED IN MASONRY CELLS WITH VERTICAL OR HORIZONTAL REINFORCING.
- FILL ALL BOND BEAMS, CELLS CONTAINING VERTICAL BARS, AND CELLS CONTAINING EXPANSION ANCHORS, STEEL EMBEDS, OR OTHER ANCHORS WITH COARSE GROUT. ALL GROUT SHALL BE CONSOLIDATED AND RECONSOLIDATED BY USE OF A MECHANICAL VIBRATOR.
- DO NOT PLACE LOADS ON BOND BEAMS OR MASONRY CELLS FILLED WITH GROUT UNTIL THE GROUT HAS CURED FOR A MINIMUM OF 3 DAYS.
- MASONRY CONSTRUCTION SHALL NOT PROGRESS WITHOUT PERIODIC AND CONTINUOUS INSPECTION AND TESTING AS SPECIFIED IN THE SCHEDULE OF SPECIAL INSPECTIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COST OF DEMOLITION, RECONSTRUCTION, INSPECTION AND TESTING OF ANY MASONRY CONSTRUCTED WITHOUT THE SPECIFIED INSPECTIONS AND TESTING.

I. STRUCTURAL STEEL:

- THE DESIGN OF STRUCTURAL STEEL IS BASED ON AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- ALL STEEL MEMBERS SHALL CONFORM TO:

SECTION	ASTM STANDARD	YIELD STRENGTH
WIDE FLANGE	A992	50 KSI
ANGLES, PLATES, AND BARS	A572	50 KSI
RECTANGULAR AND SQUARE HSS	A500 GRADE C OR A1085	50 KSI
- ALL BOLTED CONNECTIONS FOR STRUCTURAL STEEL TO STEEL SHALL BE ASTM F3125, GRADE F1852 "TWIST-OFF" STYLE TENSION CONTROL BOLT ASSEMBLIES (SHOP AND FIELD), UNLESS NOTED OTHERWISE. "H.S. BOLTS" DESIGNATES F1852 BOLT ASSEMBLIES.
- ALL WELDING ELECTRODES FOR STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO AWS A5.1 GRADE E-70 BARE ELECTRODES.
- COLUMN ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 36. ANCHOR RODS SHALL HAVE A PLATE WASHER PER AISC TABLE 14-1 AND ONE HEAVY HEX NUT AT THE TOP AND ONE HEAVY HEX NUT AT THE BOTTOM TACK WELDED TO THE ROD, UNLESS NOTED OTHERWISE.
- PLACE AND SECURE ANCHOR RODS IN FOOTING EXCAVATION PRIOR TO POURING CONCRETE FOR FOOTING. DO NOT PLACE ANCHOR RODS IN WET CONCRETE.
- PROVIDE LEVELING NUTS OR SHIM PACKS AS REQUIRED TO LEVEL COLUMN BASE PLATES. IF SHIM PACKS ARE USED, ENCASE SHIM PACKS WITH 1" MIN COVER OF NON-SHRINK GROUT WHEN PLACING GROUT UNDER BASE PLATE.
- CONNECTION DETAILING:
 - CONNECTIONS SHALL BE DETAILED AS INDICATED IN THE DRAWINGS, UNO.
 - THE FABRICATOR'S STEEL DETAILER SHALL SELECT AND COMPLETE TYPICAL CONNECTIONS BASED ON THE PLANS AND THE FOLLOWING:
 - TYPICAL STEEL BEAM AND GIRDER TO COLUMN CONNECTIONS: DETAIL 3/S-501.
 - TYPICAL STEEL BEAM-TO-BEAM CONNECTIONS: DETAIL 2/S-501.
 - TYPICAL CONNECTIONS SHALL USE, AS A MINIMUM, THE NUMBER OF BOLTS INDICATED IN THE TYPICAL DETAILS.
 - IF BEAM END REACTIONS ARE LARGER THAN THE CAPACITY INDICATED IN THE SCHEDULES THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR GUIDANCE.
 - ANY NON-TYPICAL CONNECTIONS THAT ARE NOT DETAILED IN THE DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR FOR THE LOADS INDICATED IN THE DRAWINGS. THE DESIGN SHALL BE DONE BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARKANSAS. THE CONNECTION DETAILS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL.
- ALL STEEL FABRICATION AND ERECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE.
- THE STRUCTURAL STEEL FRAMING FABRICATOR SHALL BE AN AISC CERTIFIED BUILDING FABRICATOR (BU).
- ALL STEEL DETAILS SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF THE LATEST AISC SPECIFICATIONS WITH LATEST REVISIONS.
- SUPPLY STRUCTURAL STEEL FRAMING CONNECTIONS THAT COMPLY WITH OSHA STANDARDS. IF MEETING THESE STANDARDS CONFLICTS WITH ANYTHING SHOWN IN THESE DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING ADVISING OF ANY REQUIRED REVISIONS AND ACQUIRE THE ENGINEER'S APPROVAL BEFORE PROCEEDING WITH THE WORK.
- THE MINIMUM PLATE THICKNESS SHALL BE 1/4", THE MINIMUM WELD SHALL HAVE A 1/4" THICK THROAT, THE MINIMUM BOLT DIAMETER SHALL BE 3/4", AND THE MINIMUM CONNECTION SHALL BE TWO BOLTS, U.N.O.
- ALL COLUMN BEARING PLATES SHALL BE SIZED AS SHOWN ON DETAIL 1/S-303 AND SHALL HAVE ROLLED OR GAS CUT EDGES. MINIMUM EDGE DISTANCE TO CENTER OF BOLT HOLE, SPACING OF HOLES, AND SIZES OF HOLES SHALL BE AS PER AISC MANUAL UNLESS NOTED OTHERWISE.
- PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED LOAD. MINIMUM STIFFENER PLATE THICKNESS TO BE 1/2" OR FLANGE THICKNESS OF COLUMNS ABOVE OR BELOW, WHICHEVER IS GREATER, U.N.O.
- PROVIDE 1/2" MINIMUM THICKNESS STIFFENERS ON ALL BEAMS RUNNING OVER TOPS OF COLUMNS. MINIMUM SIZE OF WELD TO BE 1/4" FILLET WELD, U.N.O.
- ALL STEEL NOT REQUIRED TO BE SHOP PAINTED (SEE SPECIFICATIONS) SHALL BE CLEANED OF OIL, GREASE, DIRT, RUST, LOOSE MILL SCALE, ETC. AND ALL OTHER FOREIGN MATERIALS.
- GALVANIZING OF ALL STEEL MEMBERS SHALL CONFORM TO ASTM A123. ALL GALVANIZED STEEL REQUIRED TO BE PAINTED SHALL BE CLEANED AND PREPPED ACCORDING TO ASTM D6386.
- ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS LATEST EDITIONS. WELDING SHALL BE INSPECTED AND TESTED AS NOTED IN THE SPECIFICATIONS. WELDING INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELDING INSPECTOR.
- FINAL BOLTING OR WELDING SHALL NOT BE PERFORMED UNTIL THE STRUCTURE HAS BEEN PROPERLY ALIGNED.

J. STEEL ROOF DECKING:

- THE DESIGN, FABRICATION, AND ERECTION OF STEEL DECKING SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE LATEST SDI STANDARDS AND SPECIFICATIONS:
 - STEEL ROOF DECK: ANSI/SDI RD-2017, STANDARD FOR STEEL ROOF DECK.
- STEEL DECKING FOR THE CONSTRUCTION OF ROOF DIAPHRAGMS IS BASED ON THE SDI DIAPHRAGM DESIGN MANUAL (FOURTH EDITION) AND AISI S310, NORTH AMERICAN STANDARD FOR THE DESIGN OF PROFILED STEEL DIAPHRAGM PANELS.
- STEEL DECK SHALL BE ATTACHED TO SUPPORTING STEEL AS INDICATED ON:
 - ROOF DECK: DETAIL 1/S-501.
- ROOF DECK AND FORM DECK ENDS SHALL BE BUTTED OR LAPPED OVER SUPPORTS.
- DO NOT SUPPORT ROOFTOP EQUIPMENT OR EQUIPMENT CURBS DIRECTLY FROM ROOF DECK. ATTACH CURBS DIRECTLY TO STRUCTURAL STEEL SUPPORTS OR PROVIDE TREATED BLOCKING IN FLUTES OF DECK BETWEEN STRUCTURAL STEEL SUPPORTS AND CURBS.
- PROVIDE SUPPORT FOR METAL DECK AROUND COLUMNS, SCREED PLATES AROUND OPENINGS, AND EDGES OF SLABS.
- PROVIDE MINIMUM 3/16" X 8" BENT PLATES AT HIPS, VALLEYS, AND RIDGES AS REQUIRED TO SUPPORT AND CONNECT DECK TO STRUCTURE.
- SUSPENDED CEILINGS, LIGHT FIXTURES, EQUIPMENT, DUCTS, OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

K. COLD-FORMED STEEL FRAMING:

- THE DESIGN OF THE COLD FORMED STEEL FRAMING SHALL BE BASED ON AISI S100-16 w/S2-20, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- COLD-FORMED STEEL STUDS SHALL CONFORM TO THE REQUIREMENTS ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. EXTERIOR COLD-FORMED STEEL WALL STUDS SHALL A MINIMUM OF 18 GAUGE. LIMIT DEFLECTION OF STUDS TO L/240.
- EXTERIOR NON LOAD-BEARING STEEL STUDS SHALL BE CONNECTED TO THE BUILDING FRAME WITH RIGID CLIPS OR VERTICAL SLIDE CLIPS AS SHOWN ON THE STRUCTURAL DETAILS.
- ALL MATERIAL SHALL BE COLOR CODED TO INDICATE THE GAUGE OF THE MATERIAL.

L. POST-INSTALLED ANCHORS IN CONCRETE OR MASONRY:

- POST-INSTALLED ANCHORS (MECHANICAL OR ADHESIVE) SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS OR DOWELS. POST-INSTALLED ANCHORS SHALL BE BUILDING CODE COMPLIANT, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND INSPECTED PER THE APPLICABLE ICC-ES OR IAPMO UES EVALUATION REPORT. SEE SPECIFICATIONS SECTIONS 033000 AND 042900 FOR ADDITIONAL INFORMATION.

Project

AEROJET
New Guard
Post - 2

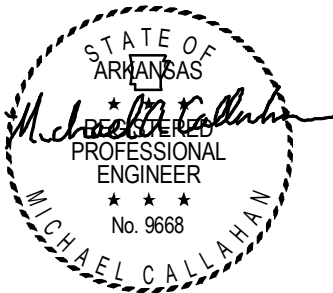
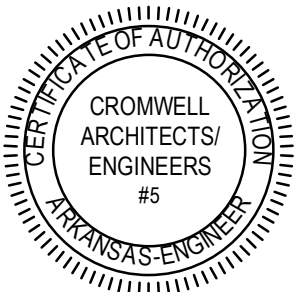
Design Phase

CONSTRUCTION
DOCUMENTS

Revisions

No.	Date	Description

Stamp



07-17-2024

Notes

1. CROMWELL ARCHITECTS ENGINEERS, INC.
ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING.
CRITICAL INFORMATION MAY BE LOST WITH
BLACK AND WHITE PRINTING.

Project Number

2024-052

Issue Date

07-17-2024

Sheet Title

STRUCTURAL
GENERAL NOTES
CONT'D

Sheet Number

S-002

Project

AEROJET
New Guard
Post - 2

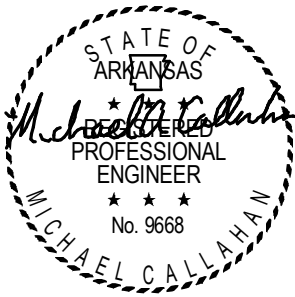
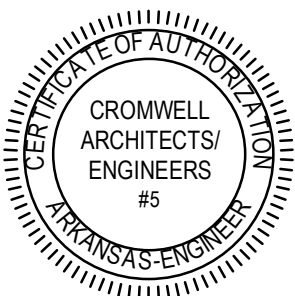
Design Phase

CONSTRUCTION
DOCUMENTS

Revisions

No.	Date	Description

Stamp



07-17-2024

Notes

1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED
2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

Project Number

2024-052

Issue Date

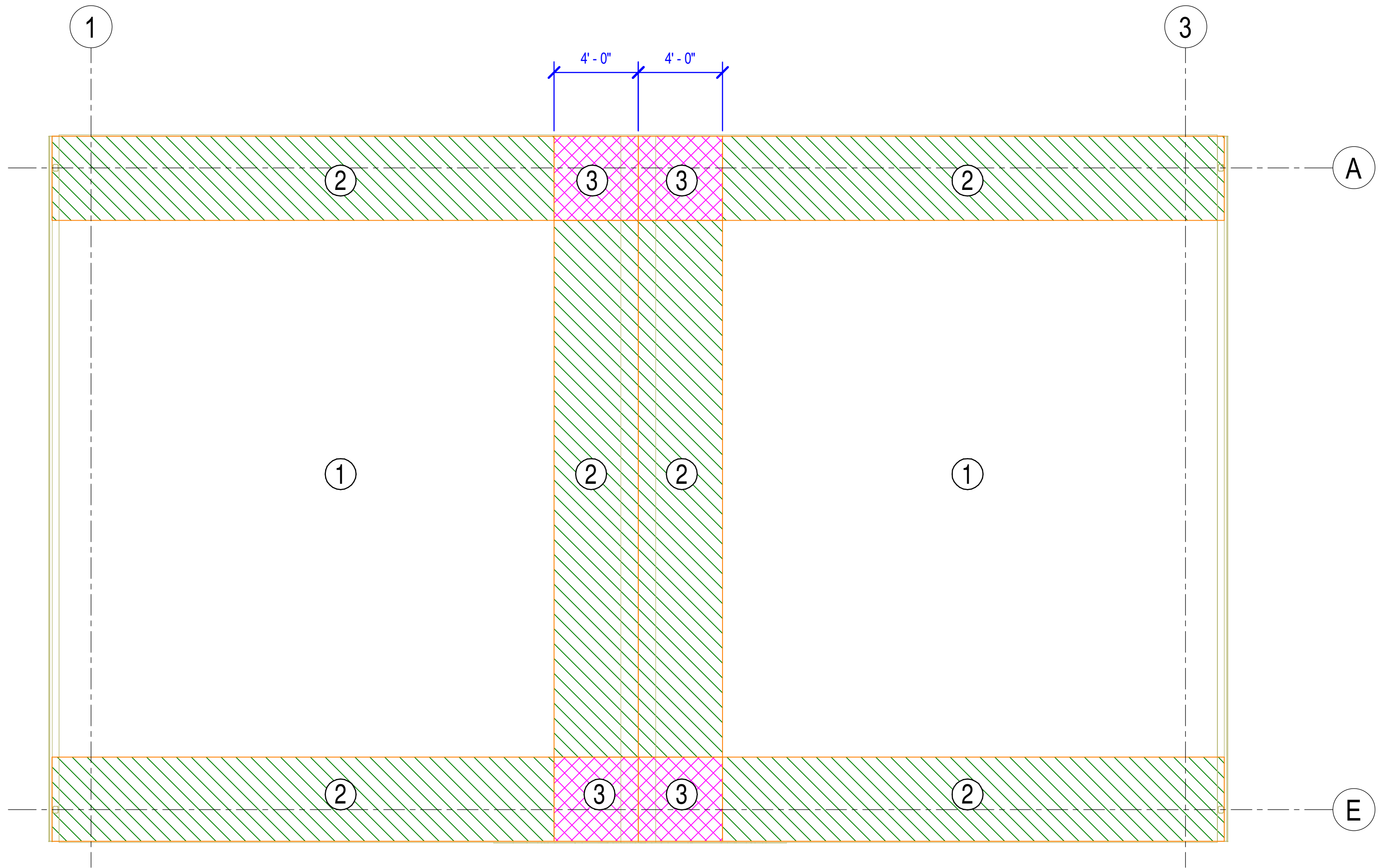
07-17-2024

Sheet Title

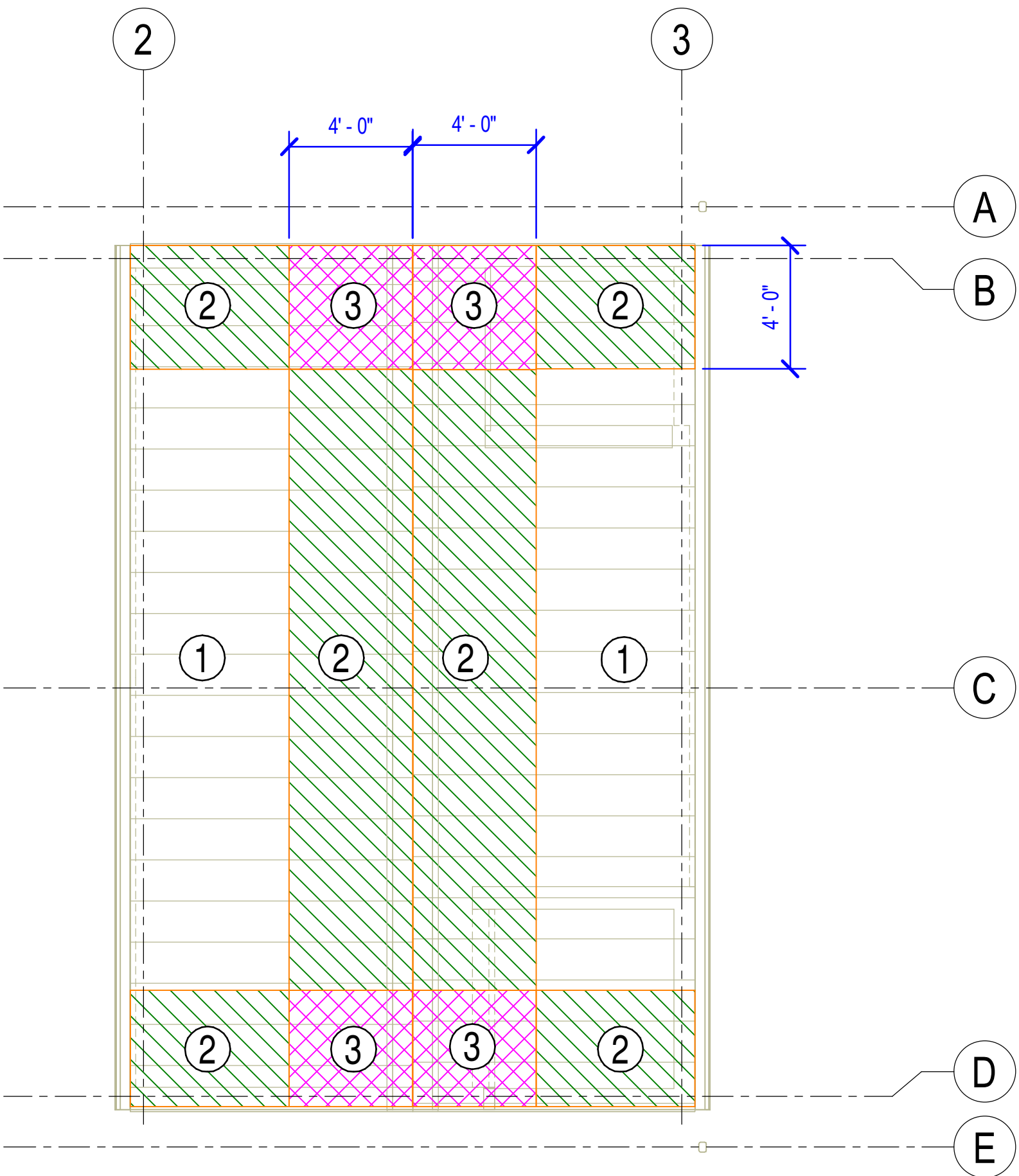
COMPONENTS AND
CLADDING WIND
PRESSURE PLANS

Sheet Number

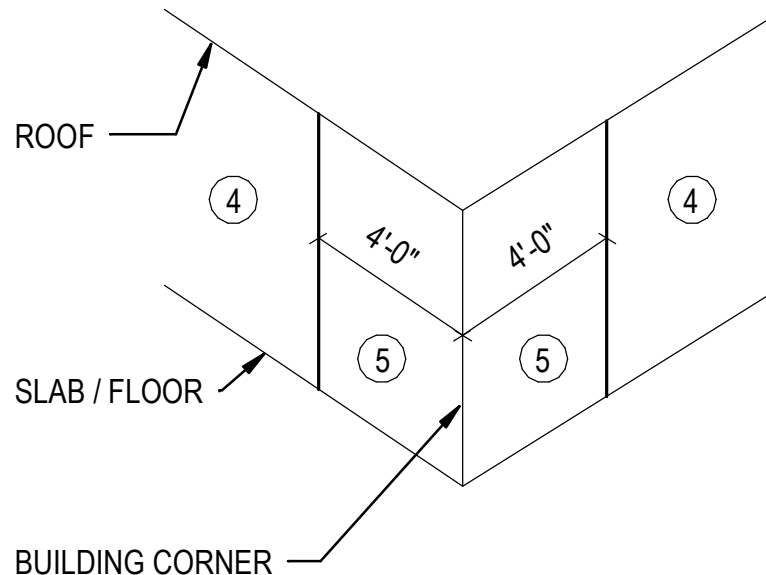
S-003



1 CANOPY COMPONENTS AND CLADDING WIND PRESSURE PLAN
1/4" = 1'-0"



2 GUARD POST COMPONENTS AND CLADDING WIND PRESSURE PLAN
1/4" = 1'-0"



GROSS WIND UPLIFT
(STRENGTH DESIGN)

ZONE	TRIBUTARY AREA (SQ. FT.)		
	10	50	100
4	-26/+24 PSF	-23/+21 PSF	-22/+20 PSF
5	-31/+24 PSF	-27/+21 PSF	-25/+20 PSF

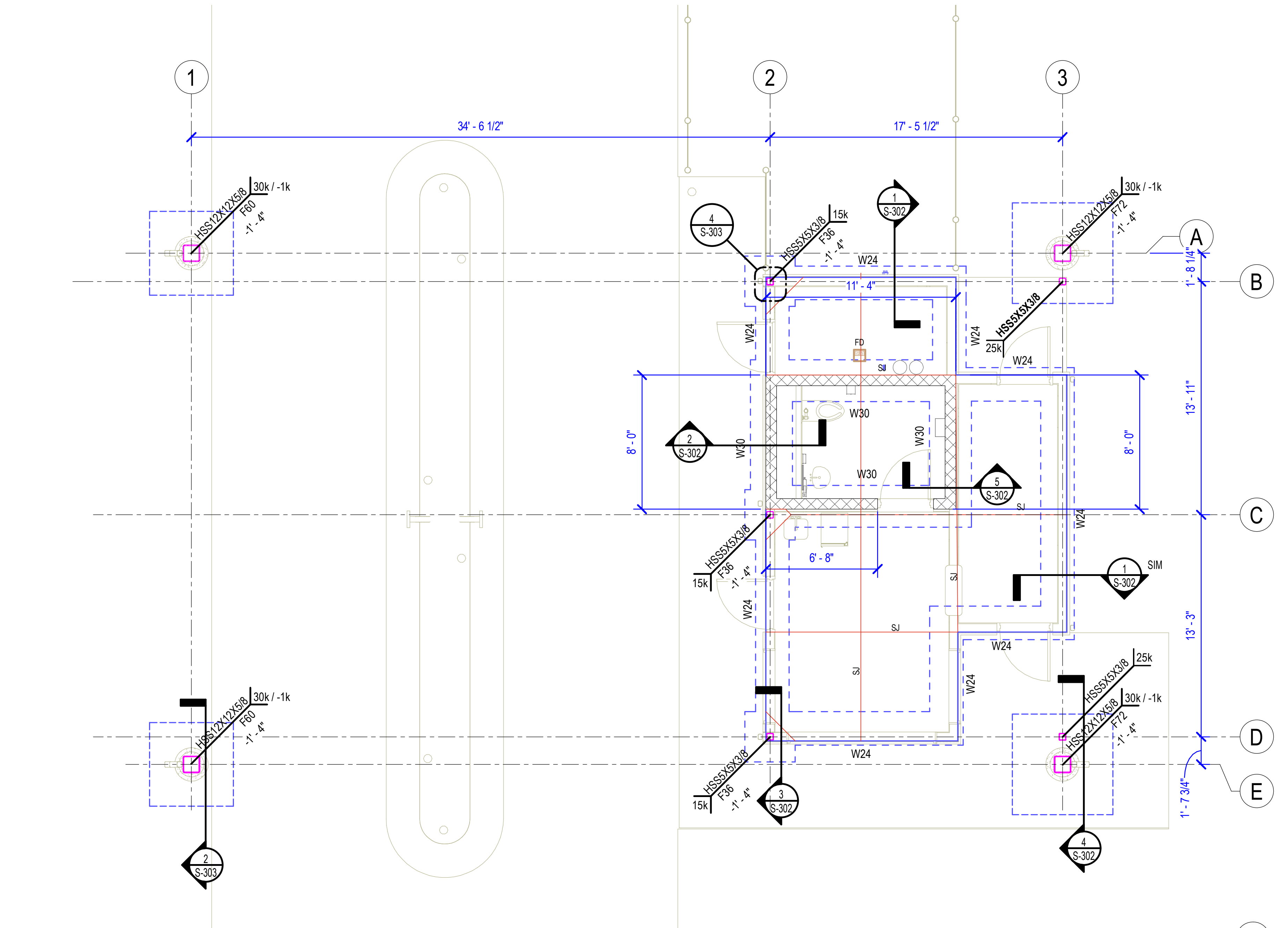
ZONE	TRIBUTARY AREA (SQ. FT.)		
	10	50	100
1	-47/+16 PSF	-29/+16 PSF	-16/+16 PSF
2	-69/+16 PSF	-47/+16 PSF	-38/+16 PSF
3	-82/+16 PSF	-55/+16 PSF	-43/+16 PSF

NOTES:

1. ULTIMATE WIND SPEED: 104 MPH
2. NOMINAL WIND SPEED: 81 MPH
3. WIND PRESSURES ARE BASED ON ASCE 7-16 STRENGTH DESIGN (ULTIMATE).
4. POSITIVE / NEGATIVE VALUES INDICATE FORCES ARE ACTING TOWARDS / AWAY FROM ELEMENT, RESPECTIVELY.
5. COMPONENTS SUBJECTED TO PARAPETWIND FORCE ON BOTH SIDES (e.g. WALL PANELS) SHALL BE DESIGNED FOR CUMULATIVE FORCES.
6. SERVICE LEVEL LOADS MAY BE CALCULATED BY MULTIPLYING THE NUMBERS ABOVE BY 0.6.

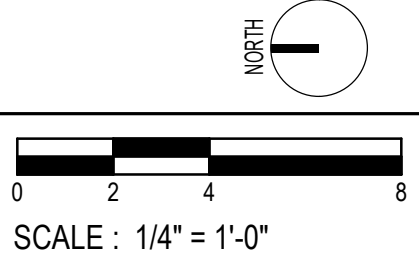
COMPONENTS AND CLADDING WALL WIND PRESSURES

COMPONENTS AND CLADDING ROOF WIND PRESSURES

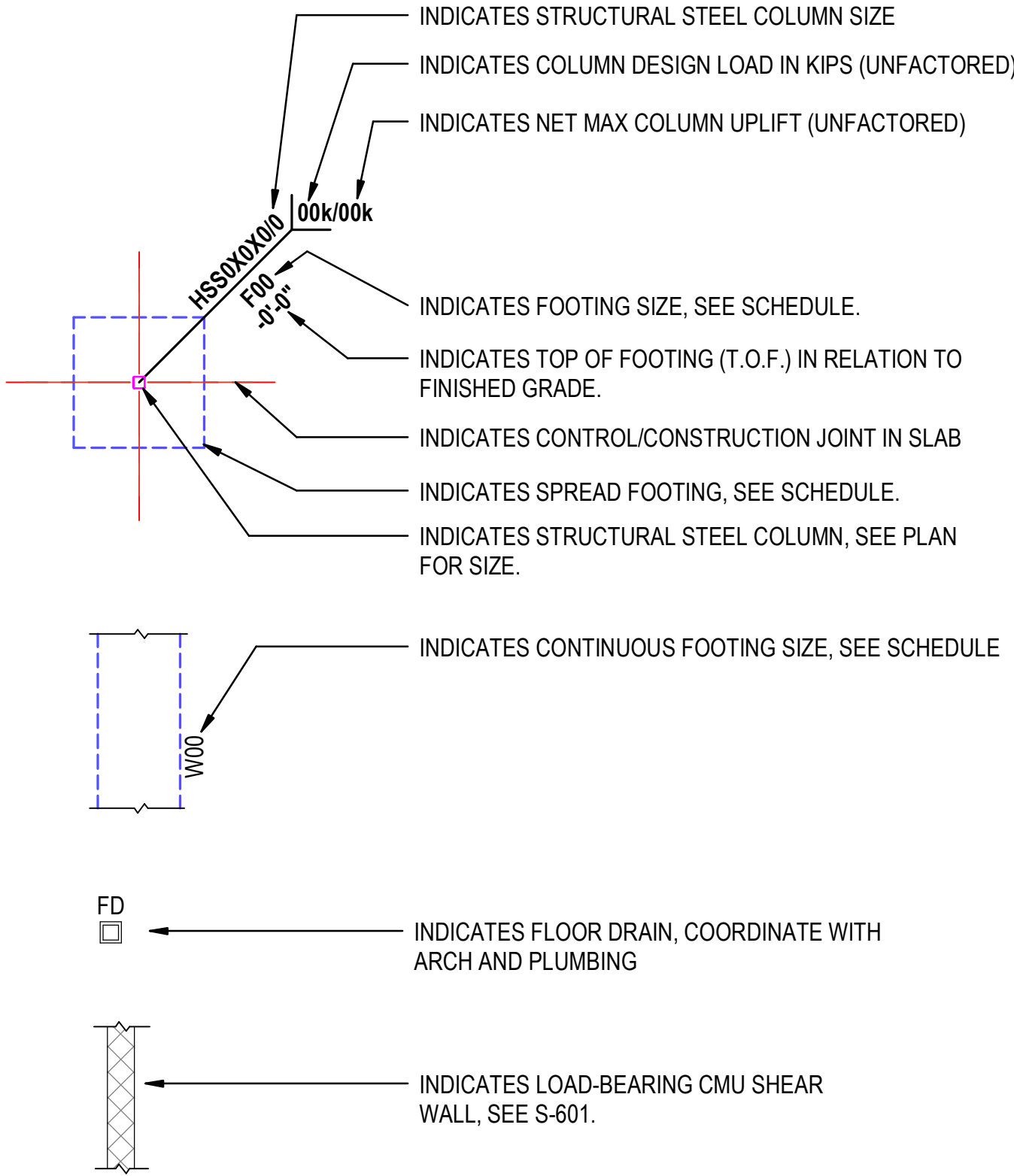


1 FOUNDATION AND SLAB PLAN
1/4" = 1'-0"

FINISHED FLOOR ELEVATION 0' - 0" = SITE ELEVATION SEE CIVIL



FOUNDATION AND SLAB LEGEND



NOTE:
GALVANIZE EXTERIOR COLUMNS

COL FOOTING SCHEDULE				
MARK #	W	L	T	REINFORCING
F36	3' - 0"	3' - 0"	1' - 4"	#5 AT 9" O.C. BOT
F60	5' - 0"	5' - 0"	1' - 4"	#5 AT 9" O.C. TOP AND BOT
F72	6' - 0"	6' - 0"	1' - 4"	#5 AT 9" O.C. TOP AND BOT

CONT FOOTING SCHEDULE			
MARK #	W	T	REINFORCING
W24	2' - 0"	1' - 4"	SEE 1/S-302
W30	2' - 6"	1' - 4"	SEE 2/S-302

Project
AEROJET
New Guard
Post - 2

Design Phase
CONSTRUCTION
DOCUMENTS

Revisions		
No.	Date	Description

Stamp

- Notes
1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED
 2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

Project Number 2024-052
Issue Date 07-17-2024
Sheet Title

FOUNDATION AND
SLAB PLAN

Sheet Number
S-101

Project

AEROJET New Guard Post - 2

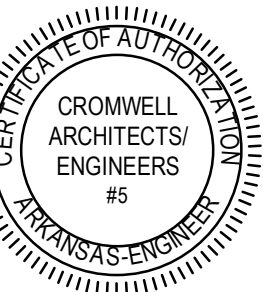
Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp



Notes

1. CROMWELL ARCHITECTS ENGINEERS, INC.
ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING.
CRITICAL INFORMATION MAY BE LOST WITH
BLACK AND WHITE PRINTING.

Project Number

2024-052

Issue Date

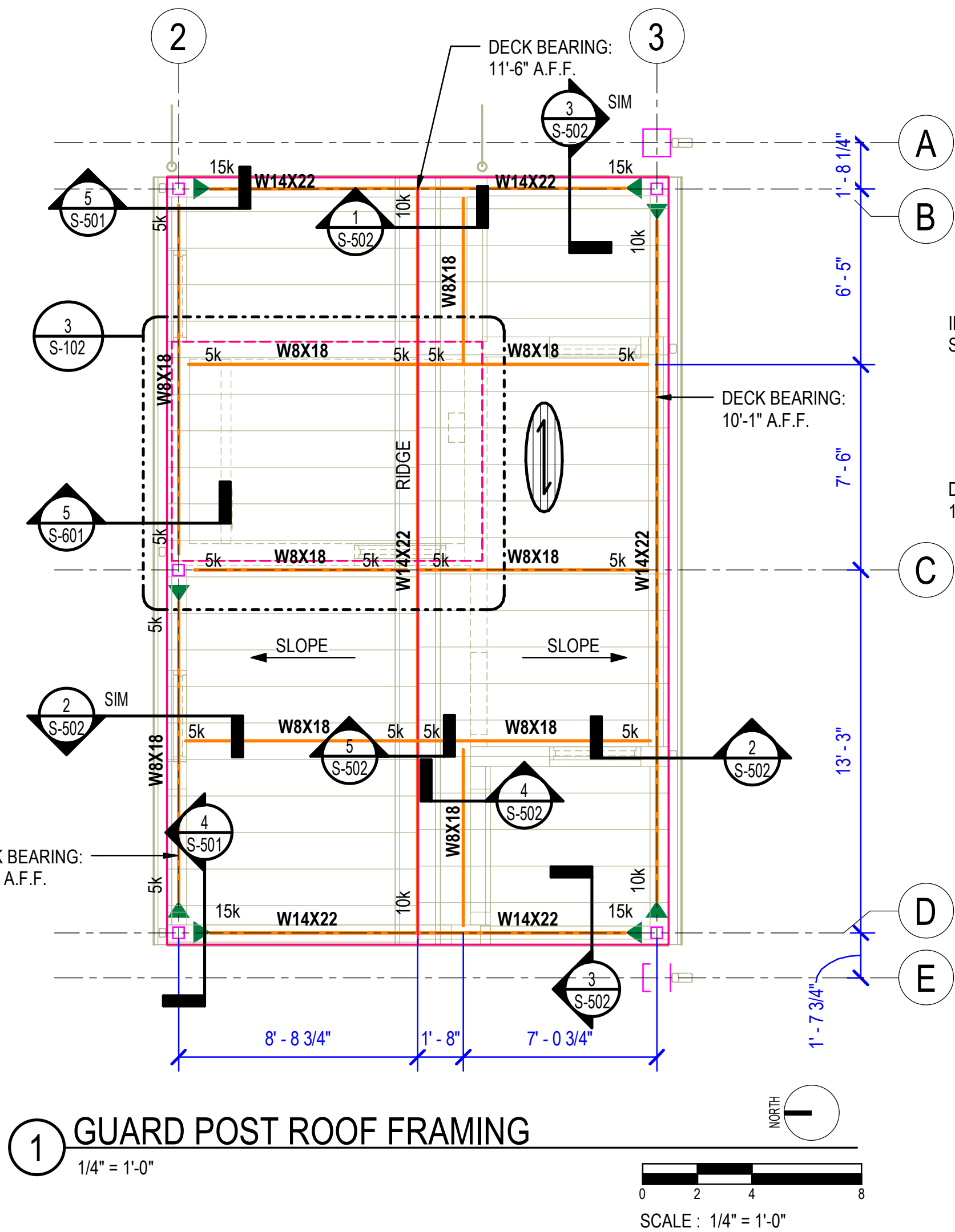
07-17-2024

Sheet Title

ROOF FRAMING PLAN

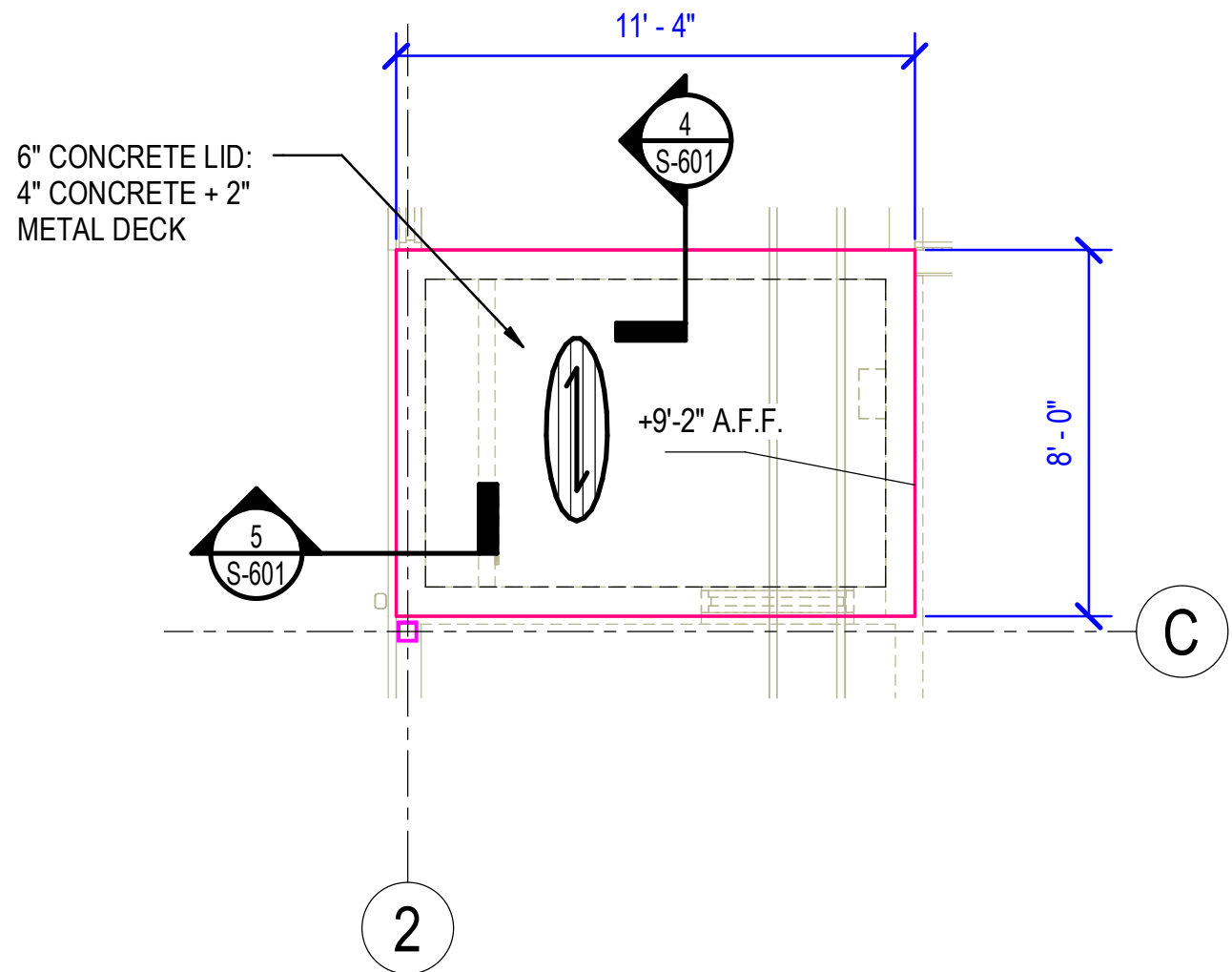
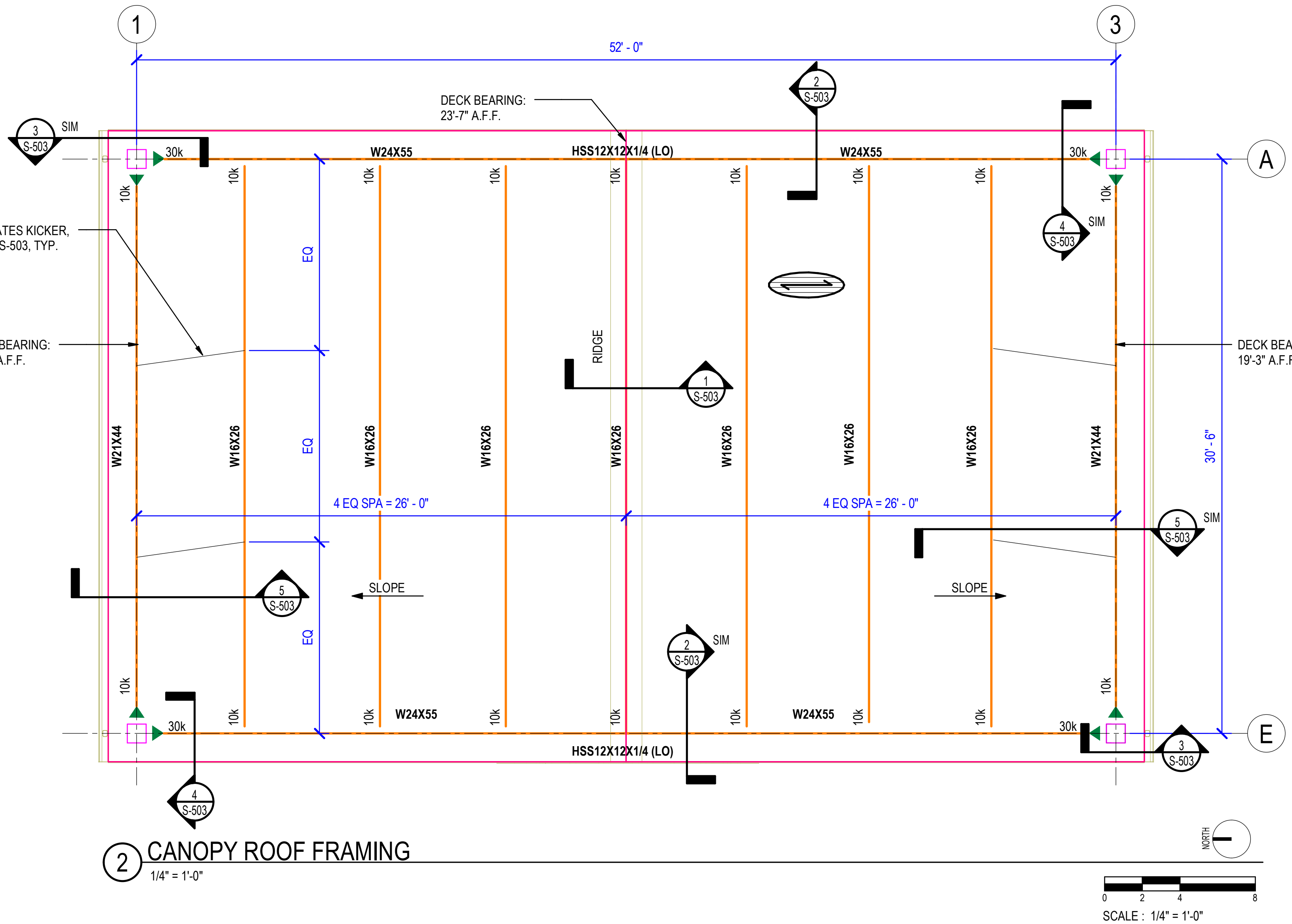
Sheet Number

S-102



FRAMING LEGEND

- INDICATES WIDE FLANGE BEAM SIZE (A992)
- INDICATES MAXIMUM FACTORED END REACTION IN KIPS
- INDICATES SPAN DIRECTION OF METAL DECK, SEE 1/S-501
- INDICATES FIELD WELDED BEAM MOMENT CONNECTION, SEE DETAILS



Project

AEROJET New Guard Post - 2

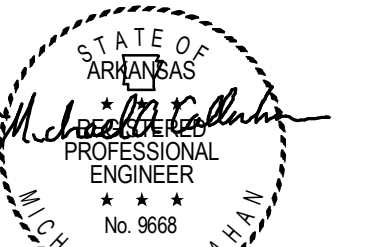
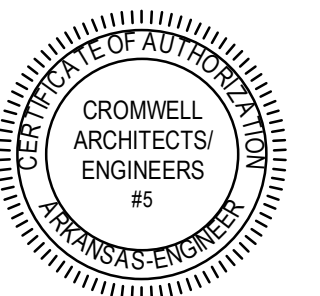
Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp



07-17-2024

Notes

- CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED
- THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

Project Number

2024-052

Issue Date

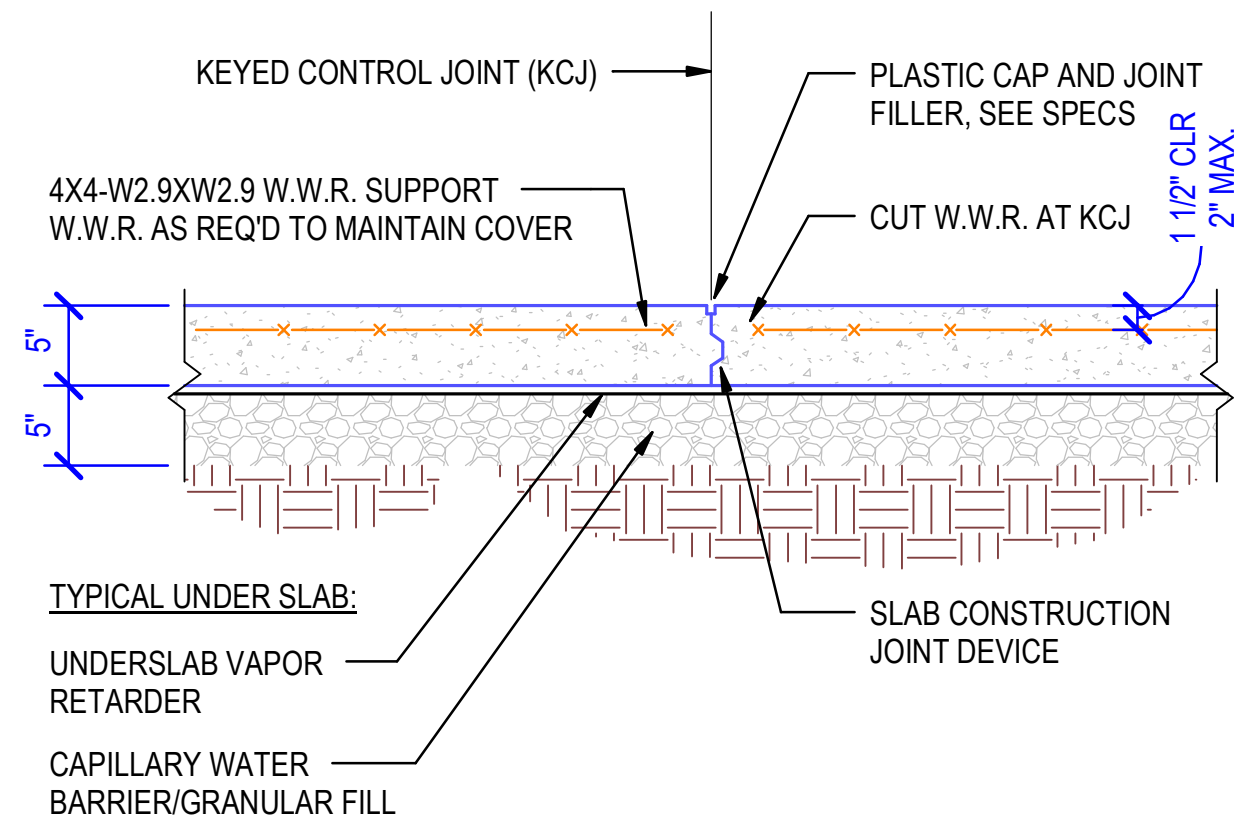
07-17-2024

Sheet Title

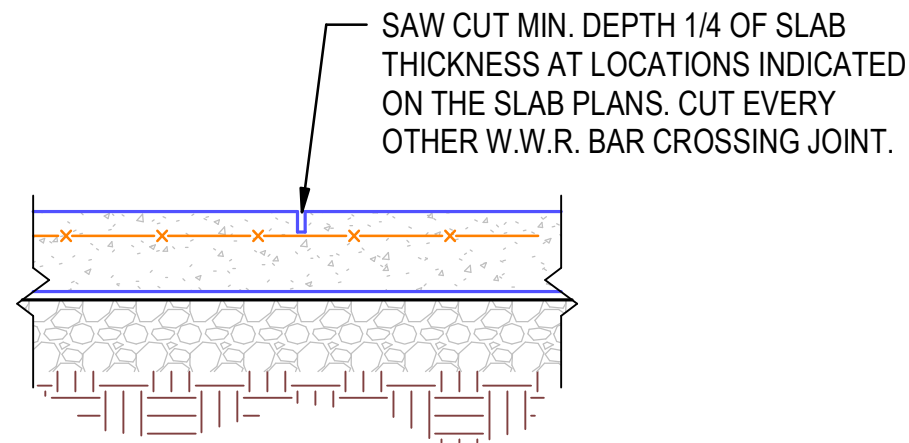
TYP FOUNDATION AND SLAB DETAILS

Sheet Number

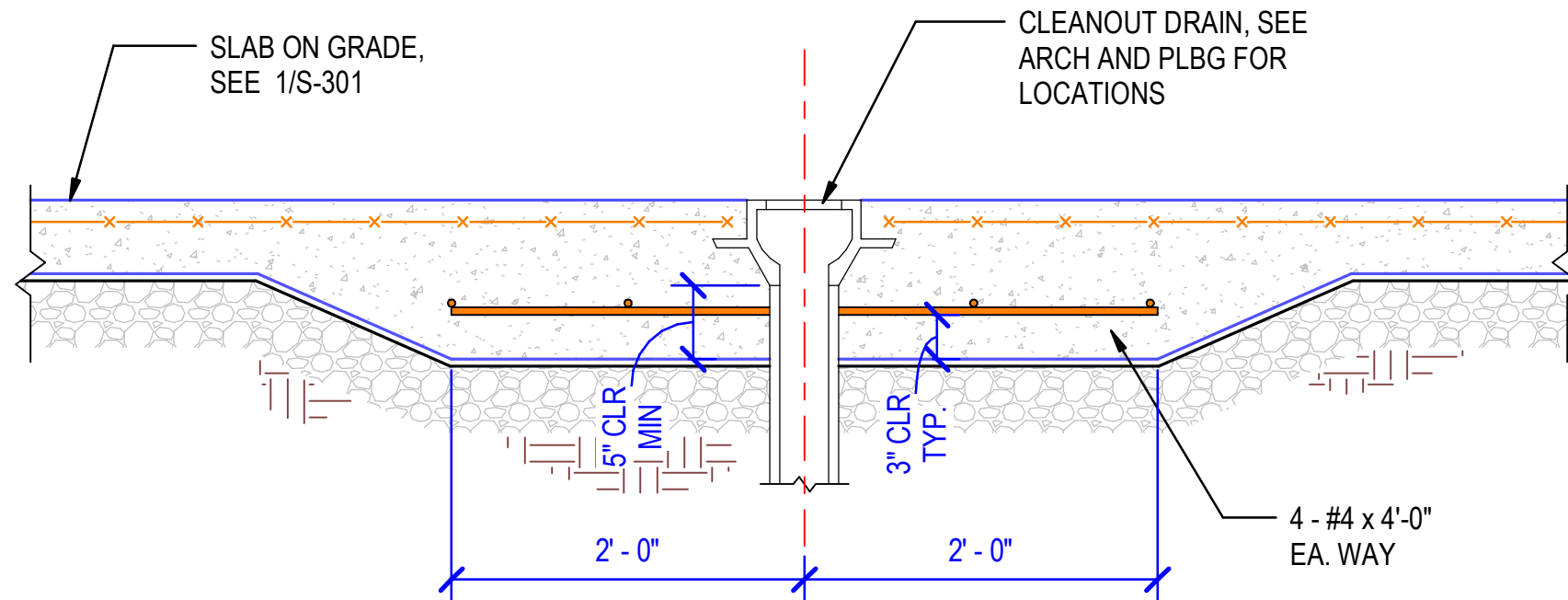
S-301



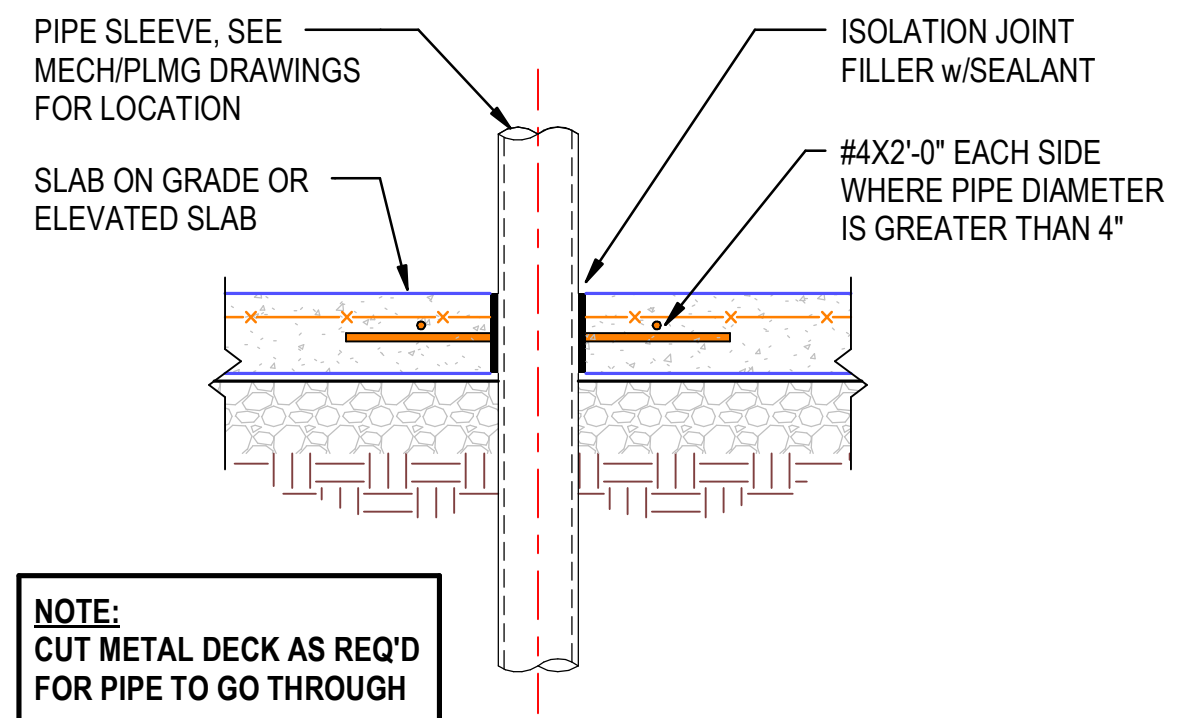
A KCJ (KEYED CONSTRUCTION JOINT)



B SAWN JOINT (SJ)



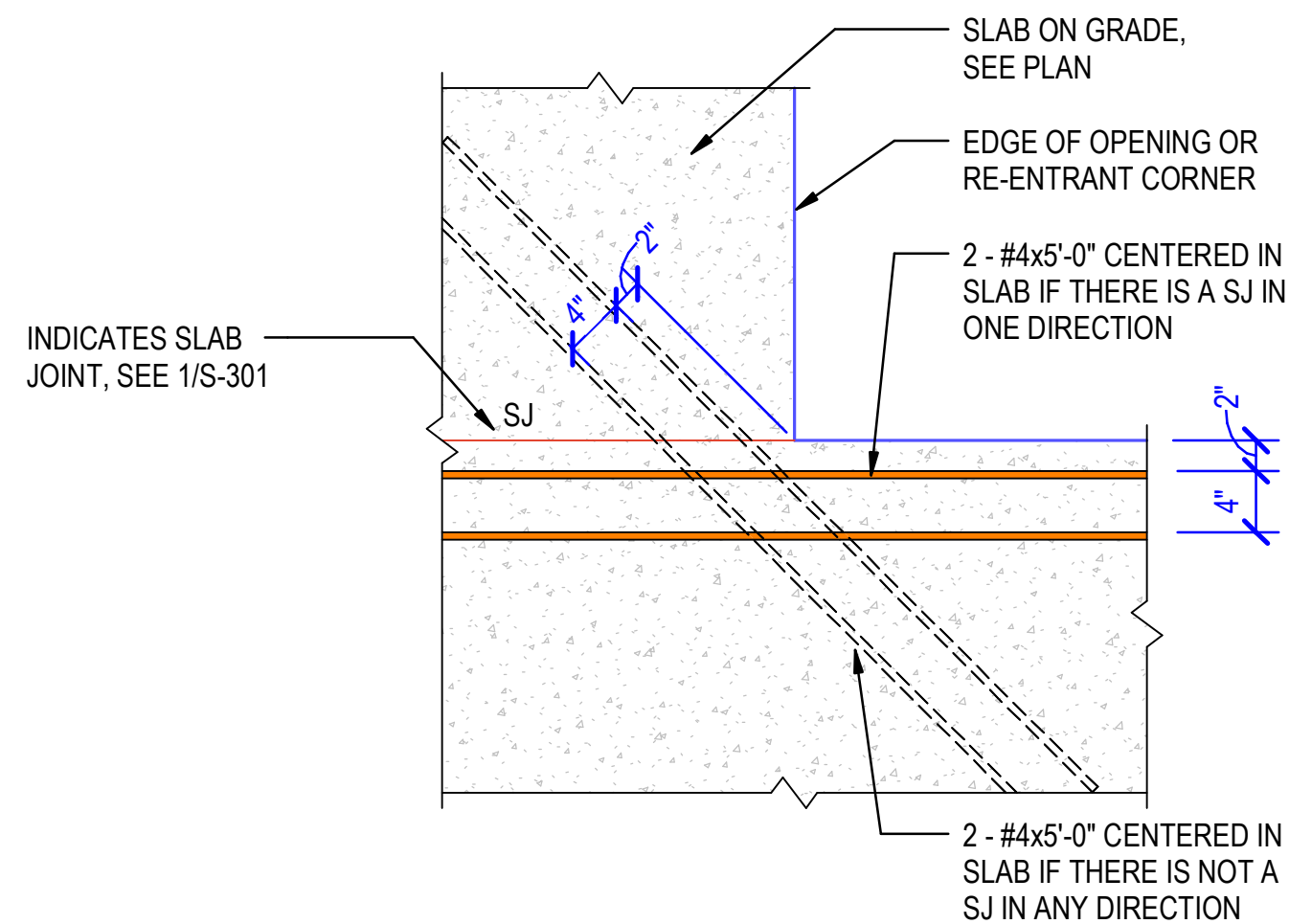
A FLOOR DRAIN AT SLAB



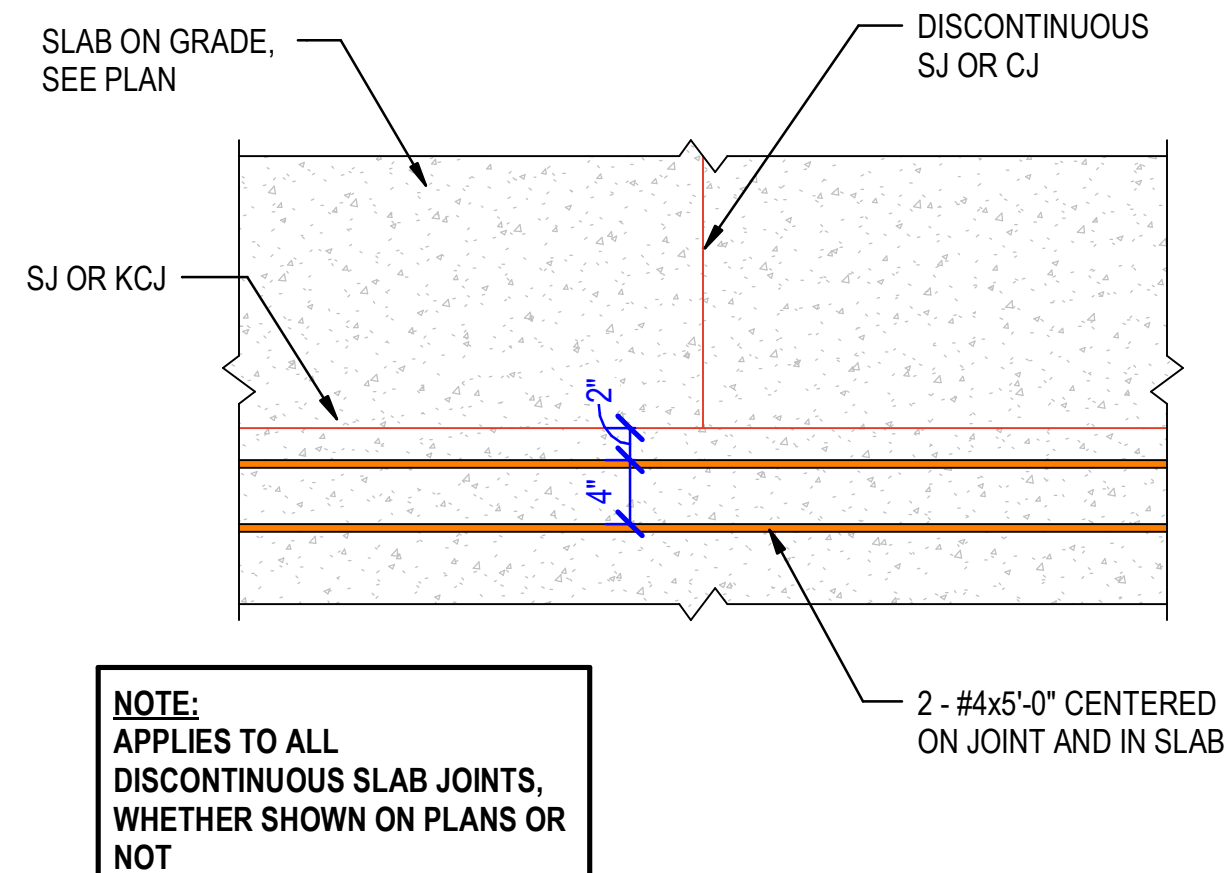
NOTE:
CUT METAL DECK AS REQ'D
FOR PIPE TO GO THROUGH

B MECH/PLMG PIPE THROUGH SLAB

1 TYPICAL SLAB ON GRADE REINFORCING AND JOINT DETAILS NOT TO SCALE

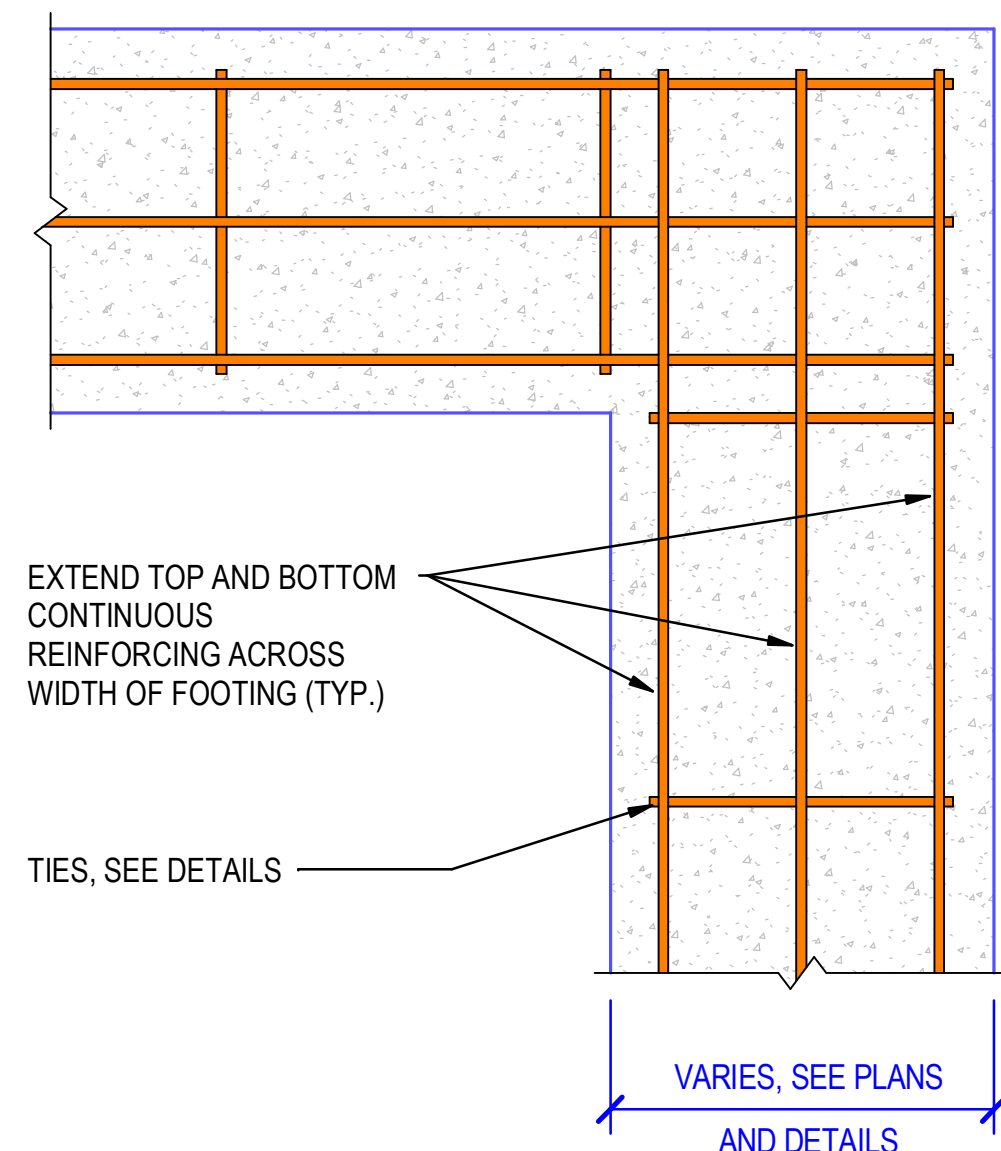


3 TYPICAL REENTRANT CORNER DETAIL NOT TO SCALE

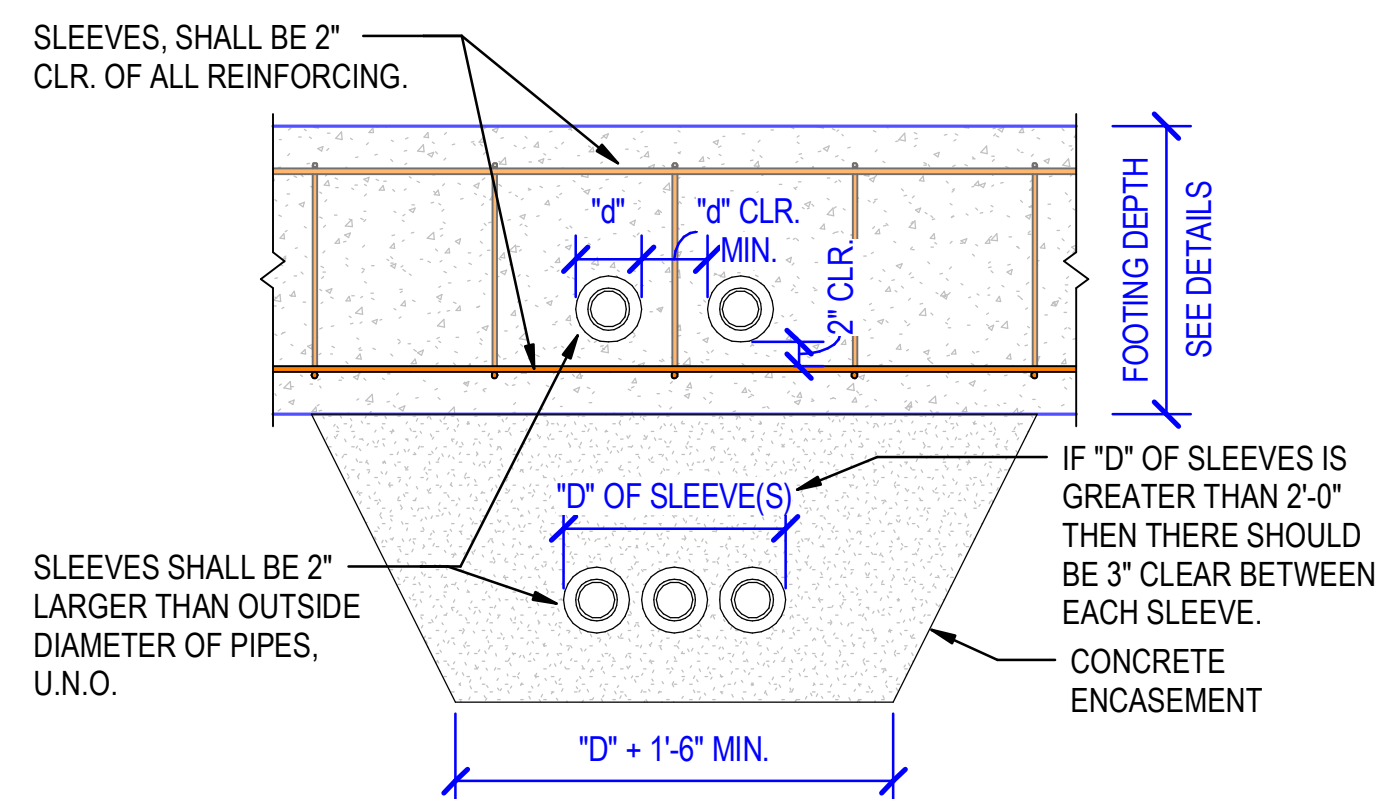


4 TYPICAL DISCONTINUOUS SLAB JOINT DETAIL NOT TO SCALE

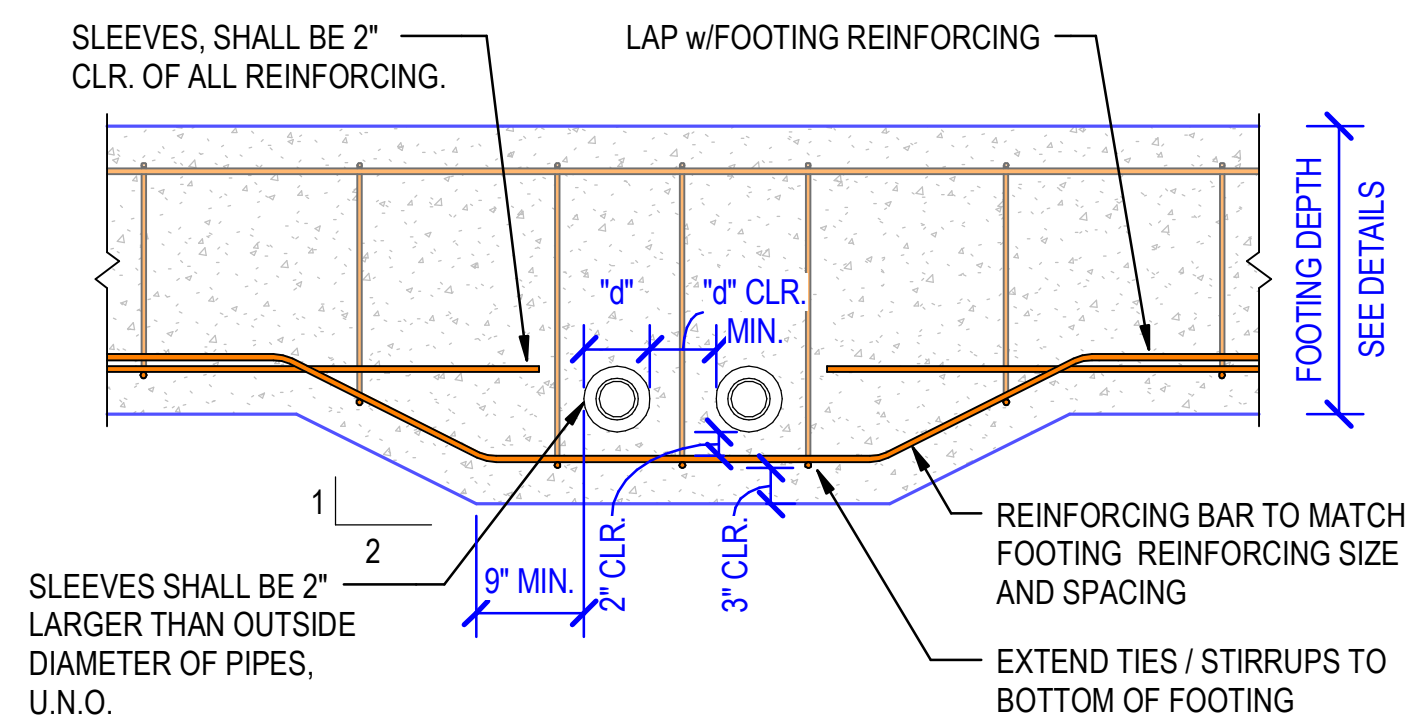
- NOTES:
- PIPE SLEEVES SHALL BE PVC, CAST IRON, OR GALV. STEEL.
 - COORD. PIPE SLEEVE LOCATIONS w/MECH. ELEC. AND PLMG.
 - THE NOMINAL SLEEVE DIAMETER SHALL NOT BE GREATER THAN 1/4 OF THE FOOTING DEPTH. THICKEN FOOTING AS REQUIRED.
 - SLEEVES SHALL BE 2" CLEAR FROM TOP REINF.
 - SEAL EACH SIDE OF SLEEVES AROUND PIPE.



5 TYPICAL CONT. FOOTING REINF. AT CORNERS NOT TO SCALE



A PIPES THROUGH OR BELOW FOOTING



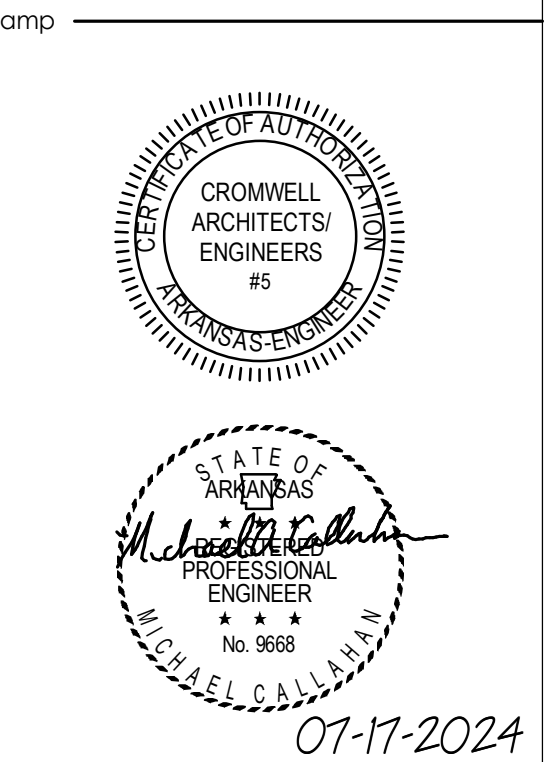
B PIPES THROUGH FOOTING (INTERUPTED REINFORCING)

6 TYPICAL HORIZONTAL PENETRATIONS THRU CONT. FOOTINGS NOT TO SCALE

AEROJET
New Guard
Post - 2

CONSTRUCTION
DOCUMENTS

Revisions		
No.	Date	Description



Notes

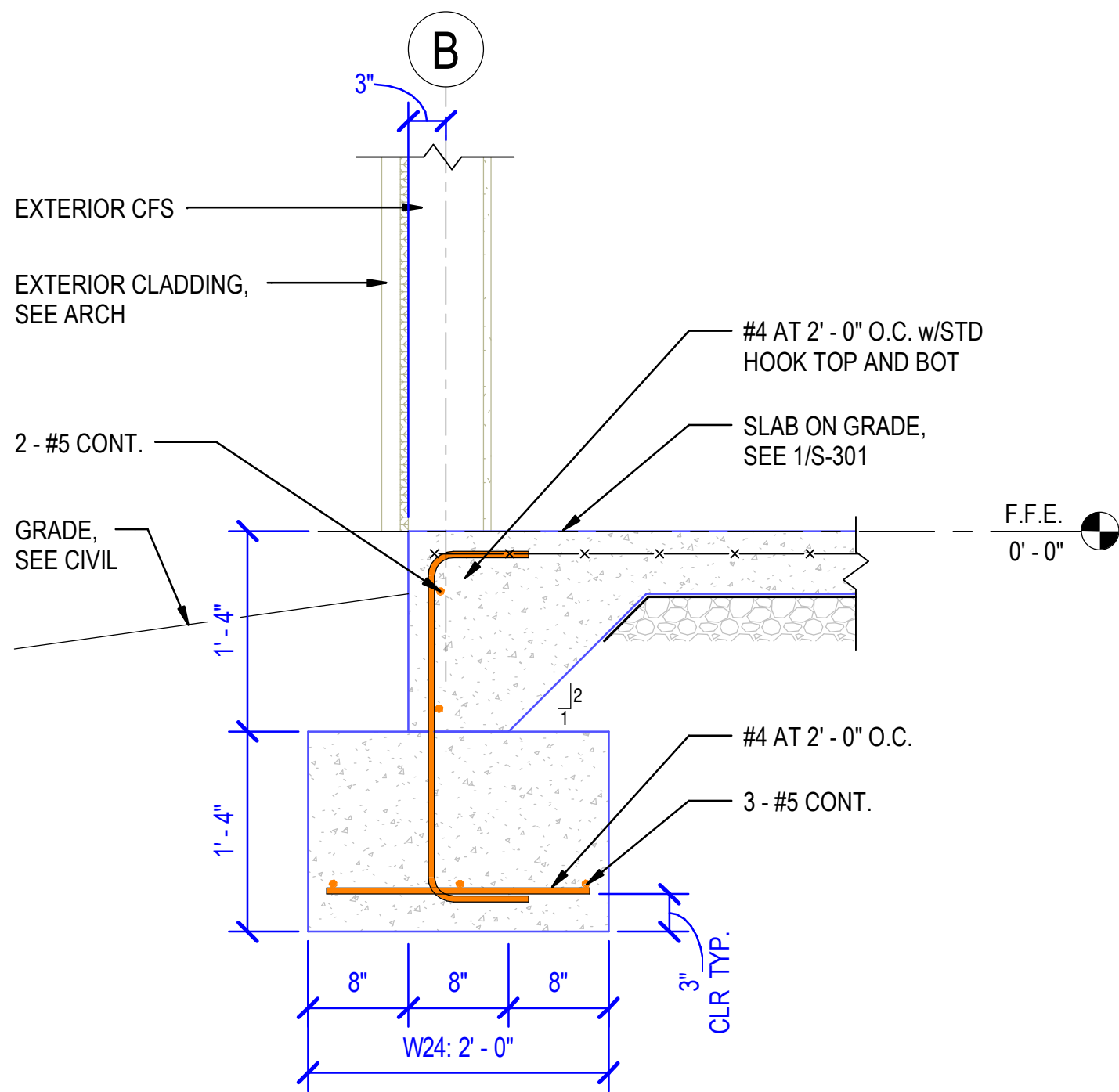
- CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED
- THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

Project Number
Issue Date
Sheet Title

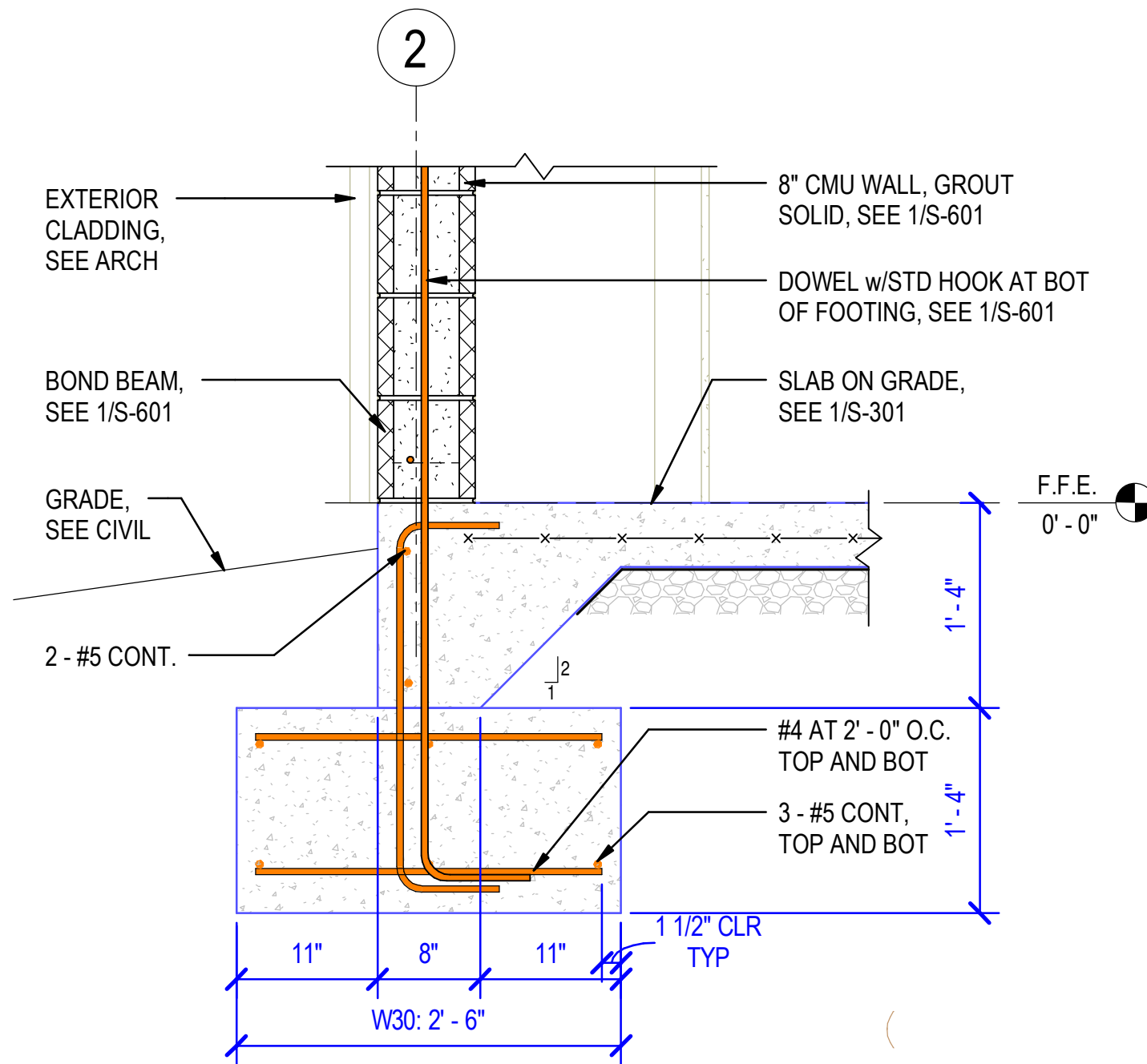
FOUNDATION DETAILS

Sheet Number

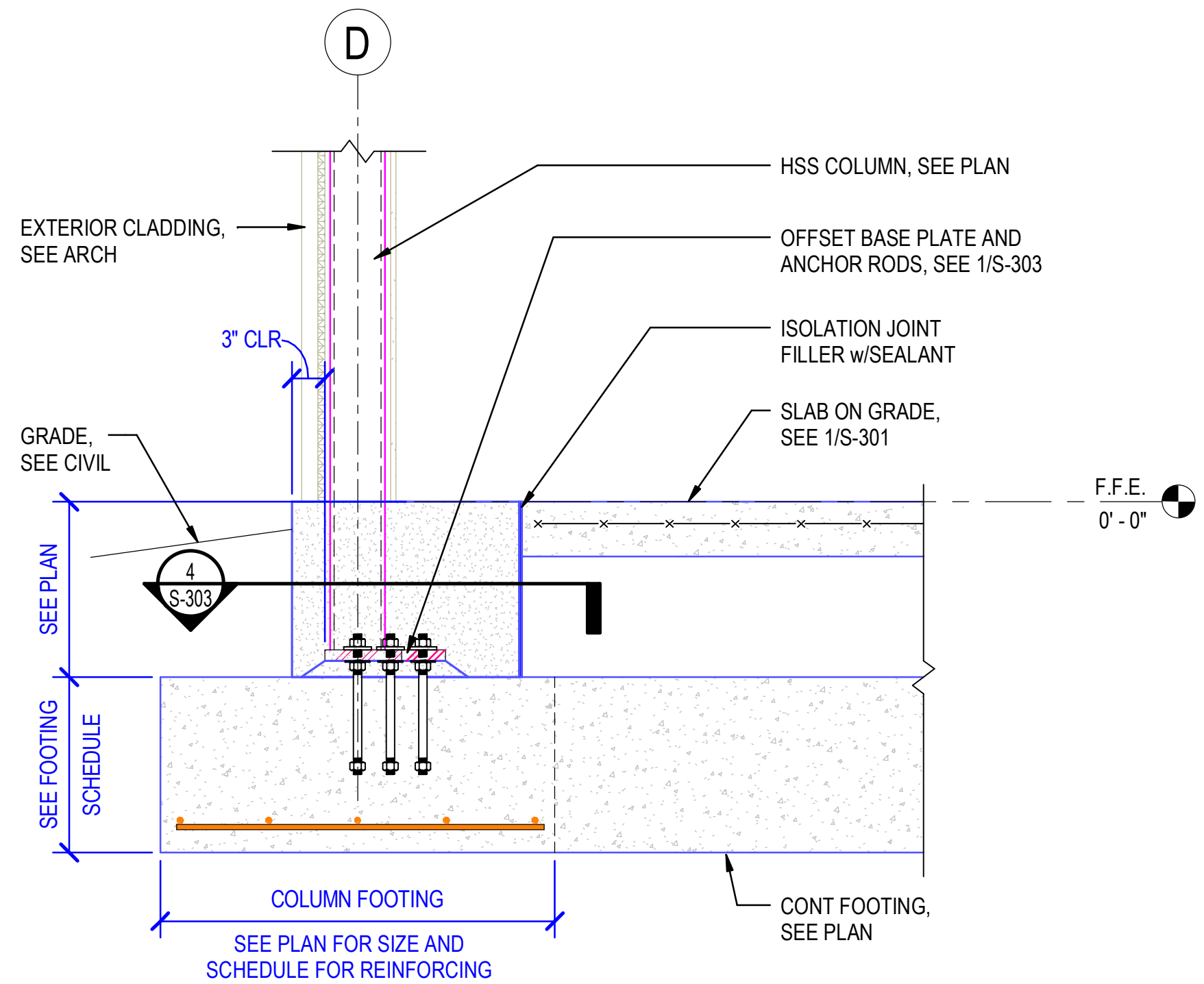
S-302



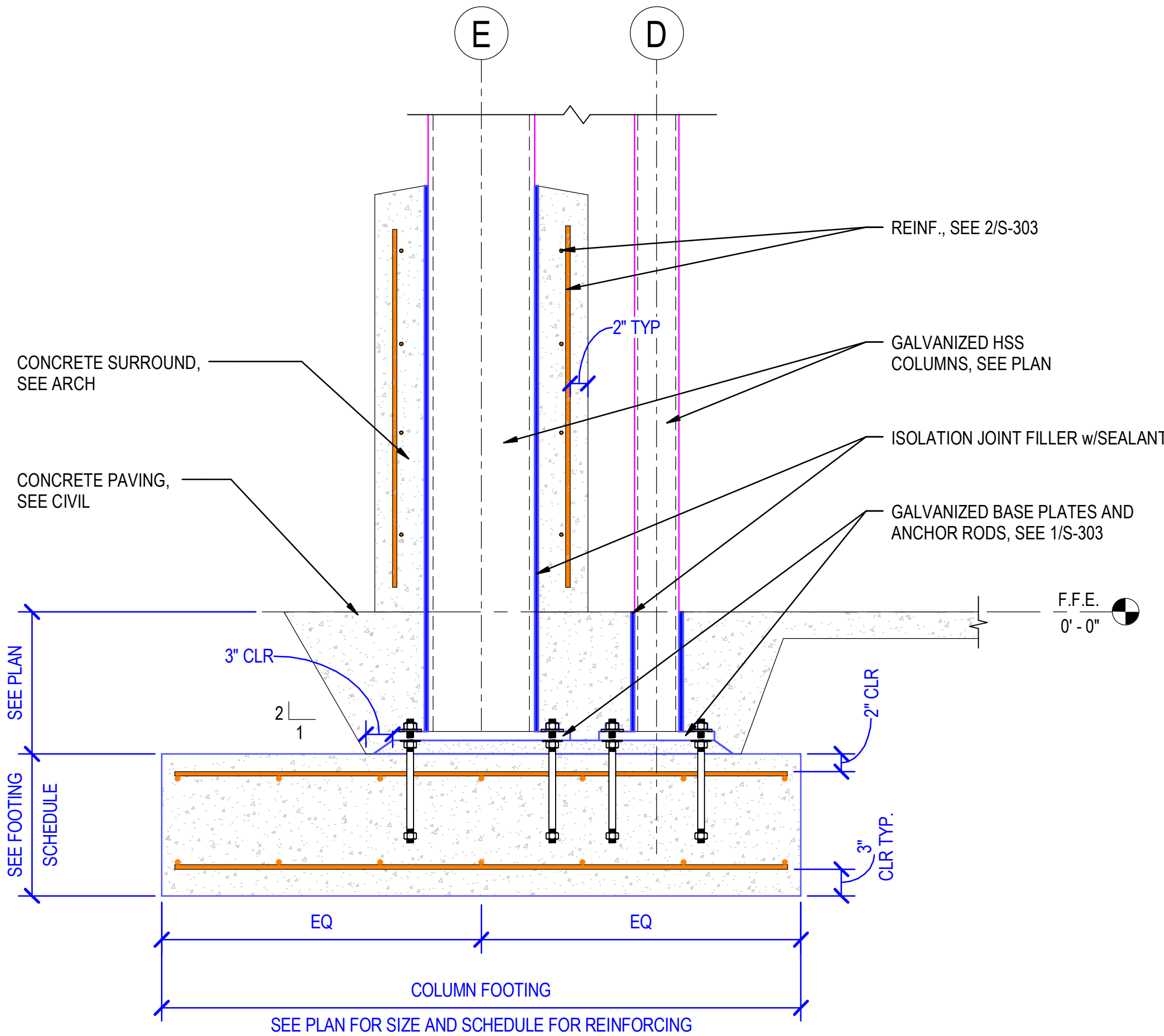
1 TYPICAL SLAB EDGE
1" = 1'-0"



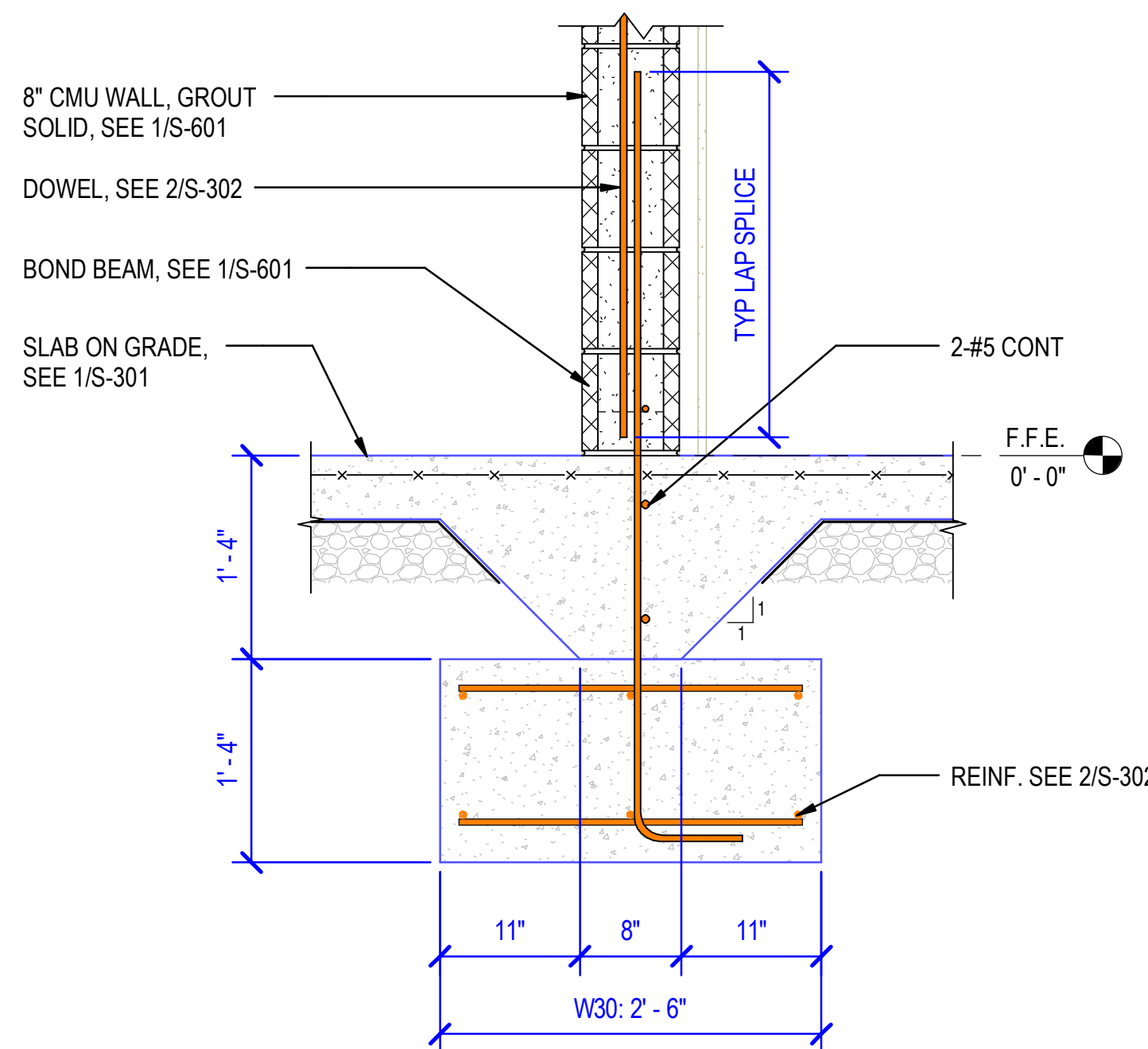
2 SECTION AT EXTERIOR CMU WALL
1" = 1'-0"



3 TYPICAL COLUMN DETAIL AT GUARD POST
1" = 1'-0"



4 TYPICAL COMBINED FOOTING
1" = 1'-0"



5 SECTION AT INTERIOR CMU WALL
1" = 1'-0"

Diagram illustrating the dimensions and components of a column-to-plate connection:

- Dimensions:**
 - B : Total width of the plate.
 - D : Distance between the centerlines of the two columns.
 - $D/2$: Distance from the centerline of a column to the edge of the plate.
 - C : Total height of the plate.
 - $C/2$: Distance from the centerline of a column to the edge of the plate.
- Components:**
 - REFER TO SCHEDULE FOR HOLE \varnothing AND WASHER SIZE**: Points to the bolt holes.
 - COLUMN**: Points to the central square area.
 - GRID AND CENTERLINE OF COLUMN**: Points to the dashed red lines indicating the column's position.
- Reference:** AISC TABLE J.2.4

TYPICAL COLUMN BASEPLATE

HEAVY HEX NUT

PLATE WASHER, SEE CHART

PLATE WASHER ON TOP OF LEVELING NUT, IF USED, TO MATCH WASHER WIDTH FROM CHART

TOP OF FOUNDATION

ANCHOR ROD, SEE SCHEDULE AND NOTE 1.5/S-001

HEAVY HEX NUT

TACK WELD

PROJECTION

MINIMUM EMBEDMENT

SEE BASEPLATE SCHEDULE OR DETAILS

1/4" MIN.

TYPICAL ANCHOR ROD DETAIL

E

#3 ROUND TIES AT 12" O.C., LAP SPLICE AS REQ'D

CONCRETE SURROUND, SEE ARCH

CONCRETE PAVING, SEE CIVIL

8 - #4, 2 EA SIDE OF COLUMN

GALVANIZED HSS COLUMNS, SEE PLAN

ISOLATION JOINT FILLER w/SEALANT

2" CLR

3" CLR

1/2

2" CLR

3" CLR TYP.

SEE FOOTING, SEE PLAN

SEE PLAN FOR SIZE AND SCHEDULE FOR REINFORCING

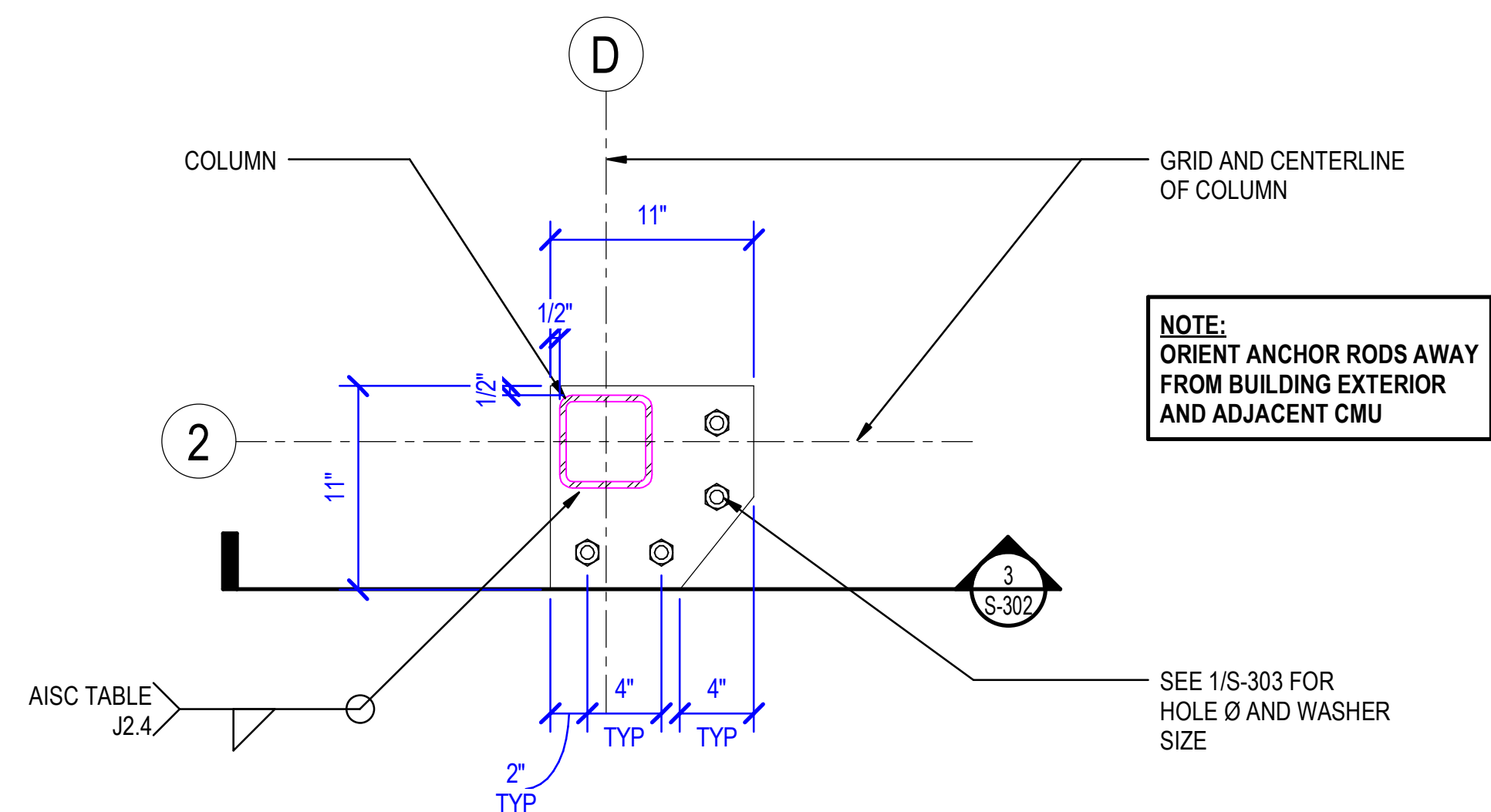
EQ

EQ

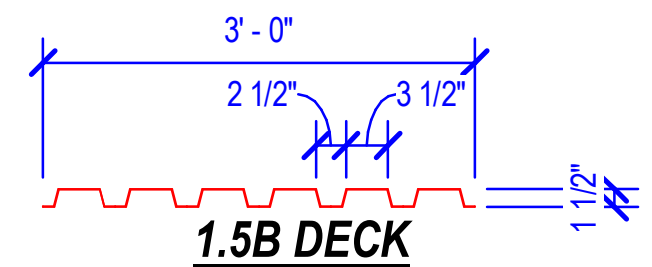
COLUMN FOOTING

F.F.E. 0' - 0"

② TYPICAL CANOPY FOOTING



4 TYPICAL OFFSET COLUMN BASEPLATE



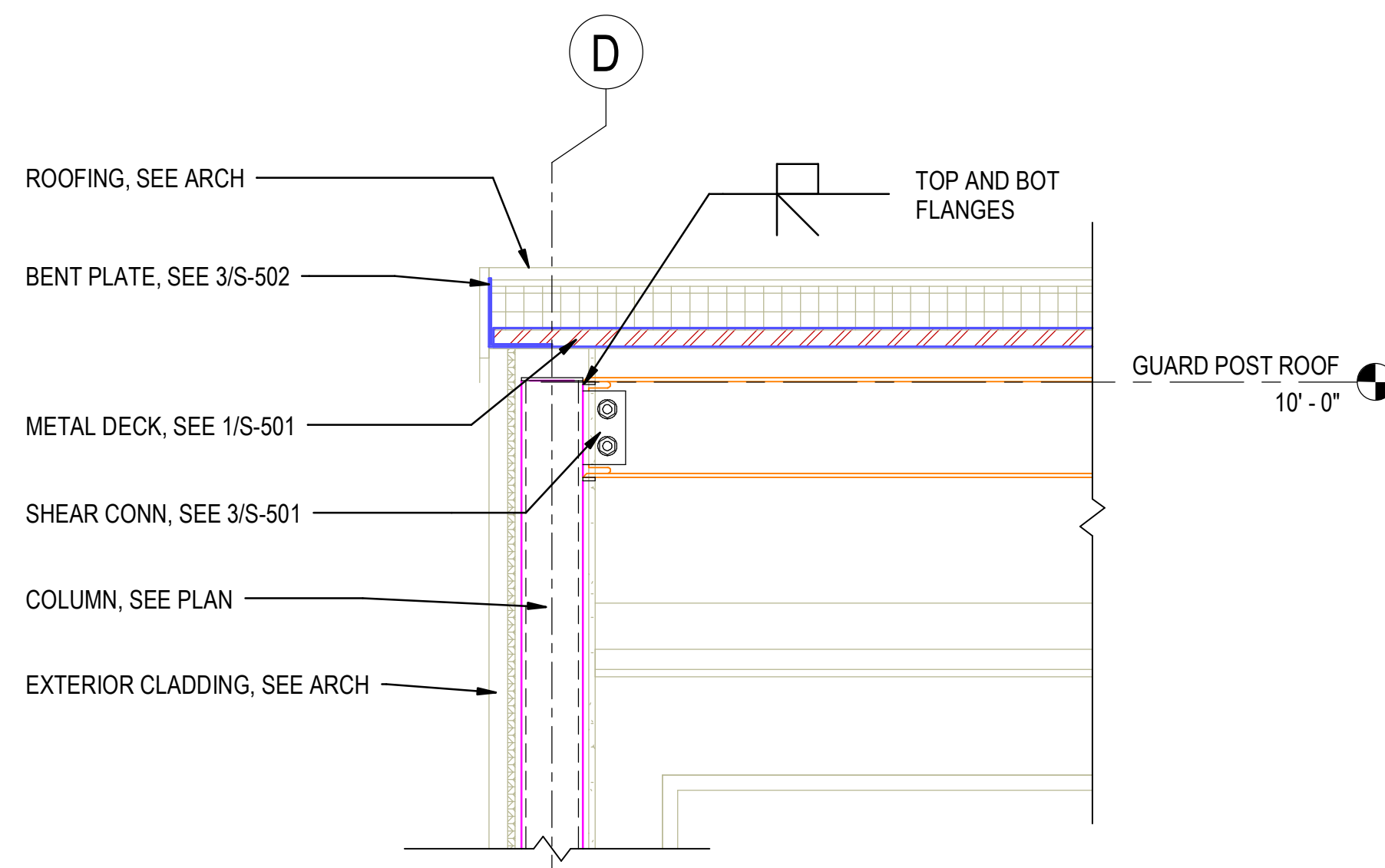
1. EDGES OF SHEET SHALL BE COMPLETELY ENGAGED.
2. DECK GALVANIZING SHALL CONFORM TO ASTM a653 G60

NOTES:
1. SECTION PROPERTIES SHOWN MAY VARY 10%.
2. DECK $F_y = 33$ ksi MIN.

SECTION PROPERTIES

1 TYPICAL 1.5B ROOF DECK ANCHORAGE

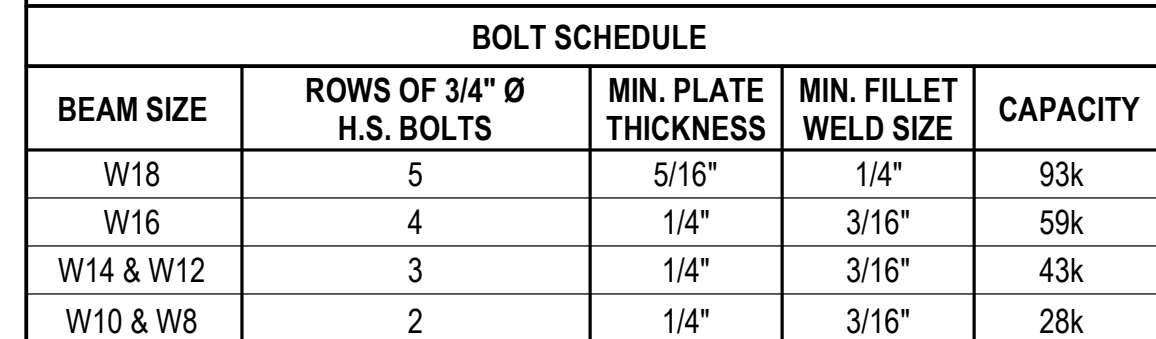
NOT TO SCALE



② TYPICAL BEAM TO HSS COLUMN CONN. SCHEDULE

NOT TO SCALE

① TYPICAL MOMENT CONNECTION

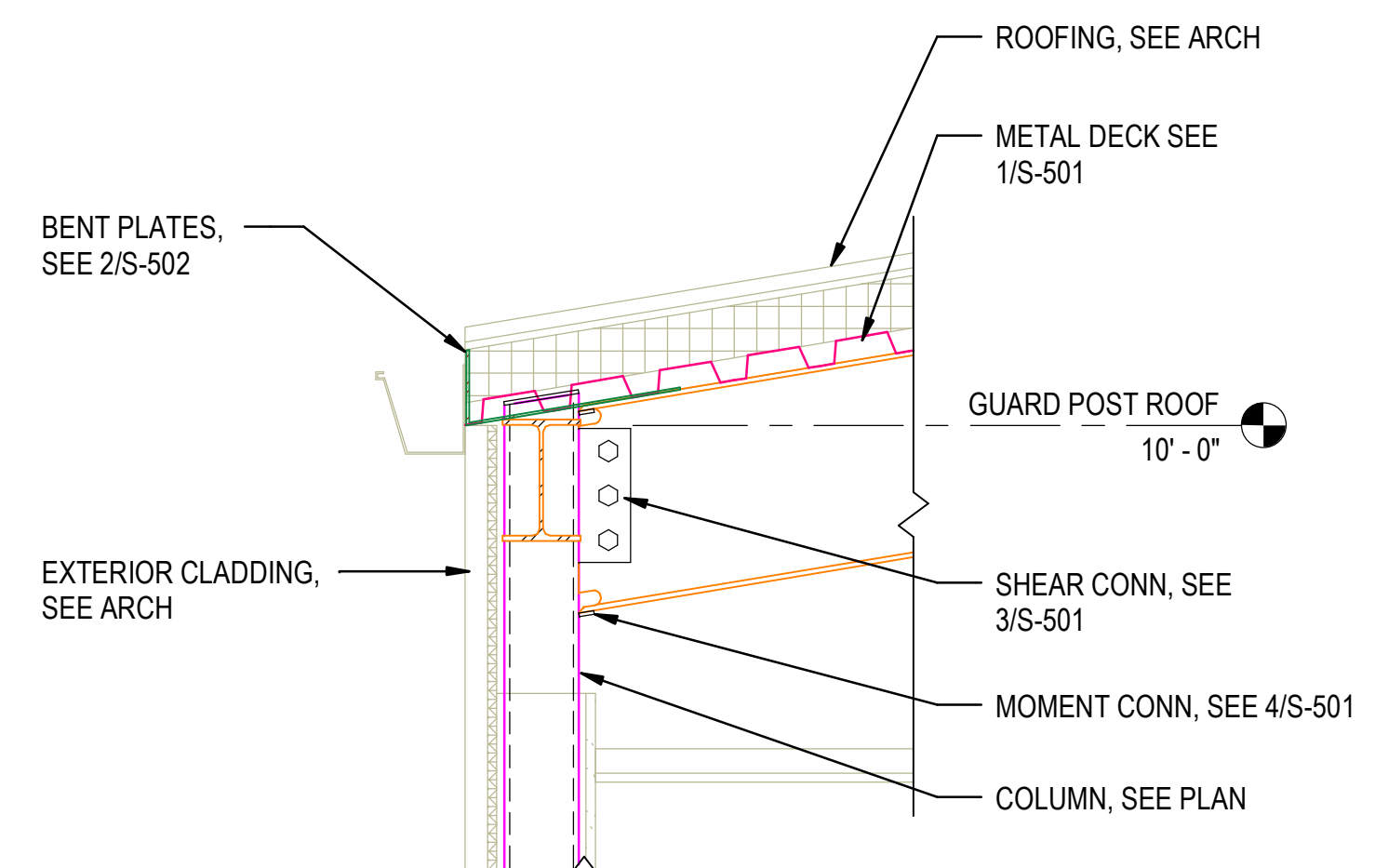
$$1'' = 1' - 0''$$


- NOTES:

1. CAPACITY IS BASED ON LRFD DESIGN WITH STANDARD OR SHORT HORIZONTAL SLOTTED HOLES. OVERSIZE OR VERTICAL SLOTTED HOLES ARE NOT ALLOWED. FOR STANDARD HOLES MINIMUM PLATE THICKNESS SHALL BE USED.
2. NUMBER OF BOLTS SHOWN IS THE MINIMUM REQUIRED FOR CONNECTIONS
3. PREHEAT WELDS AS REQUIRED BY AISC.
4. BEAMS WITH LARGE COPES MAY REQUIRE WEB STIFFENER.

2 TYPICAL SINGLE PLATE BEAM TO GIRDER CONNECTION

NOT TO SCALE



⑤ TYPICAL MOMENT CONN AT GABLE FRAME

$$1'' = 1'-0''$$

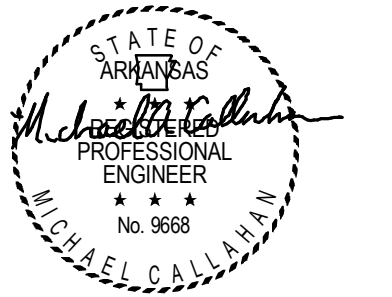
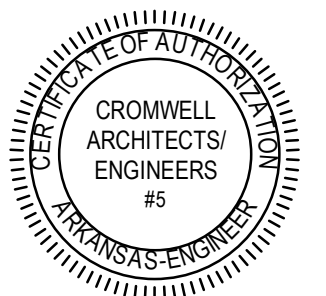
Project —

Design Phase —

Revisions —

[illegible]

Stamp —



07-17-2024

Notes —

1. CROMWELL ARCHITECTS ENGINEERS, INC.
ALL RIGHTS RESERVED
2. THIS SHEET DESIGNED FOR COLOR PRINTING.
CRITICAL INFORMATION MAY BE LOST WITH
BLACK AND WHITE PRINTING.

Project Number 2024-052

Issue Date 2024-052

Sheet Title —

Sheet Number —

S-502



Project

AEROJET New Guard Post - 2

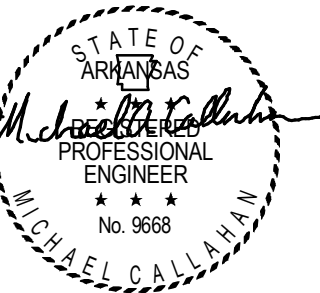
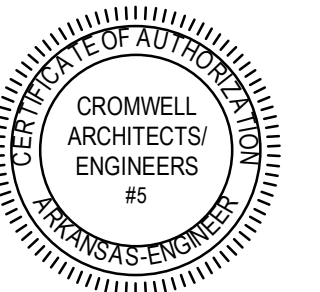
Design Phase

CONSTRUCTION DOCUMENTS

Revisions

No.	Date	Description

Stamp



07-17-2024

Notes

1. CROMWELL ARCHITECTS ENGINEERS, INC. ALL RIGHTS RESERVED

2. THIS SHEET DESIGNED FOR COLOR PRINTING. CRITICAL INFORMATION MAY BE LOST WITH BLACK AND WHITE PRINTING.

Project Number

2024-052

Issue Date

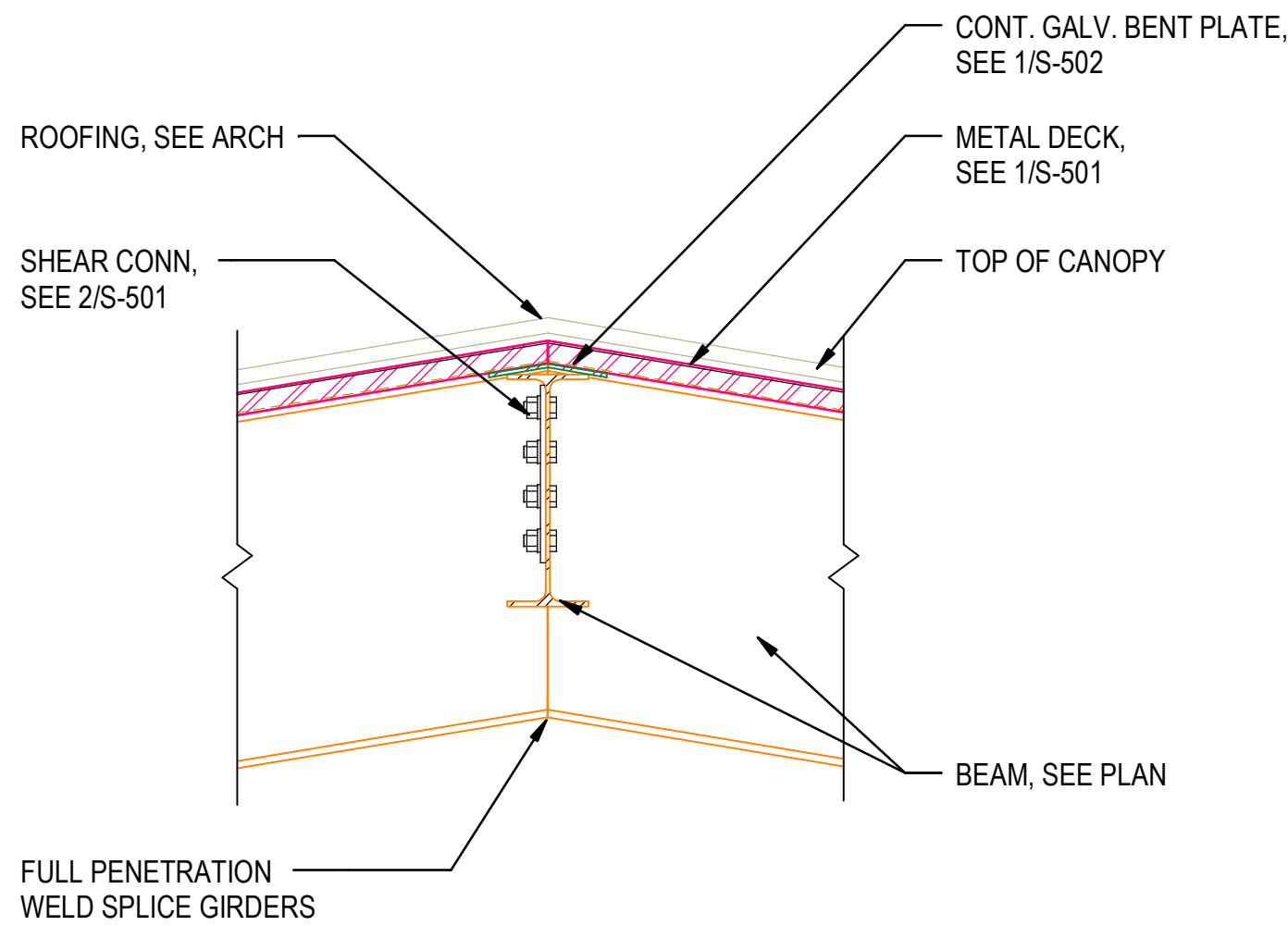
07-17-2024

Sheet Title

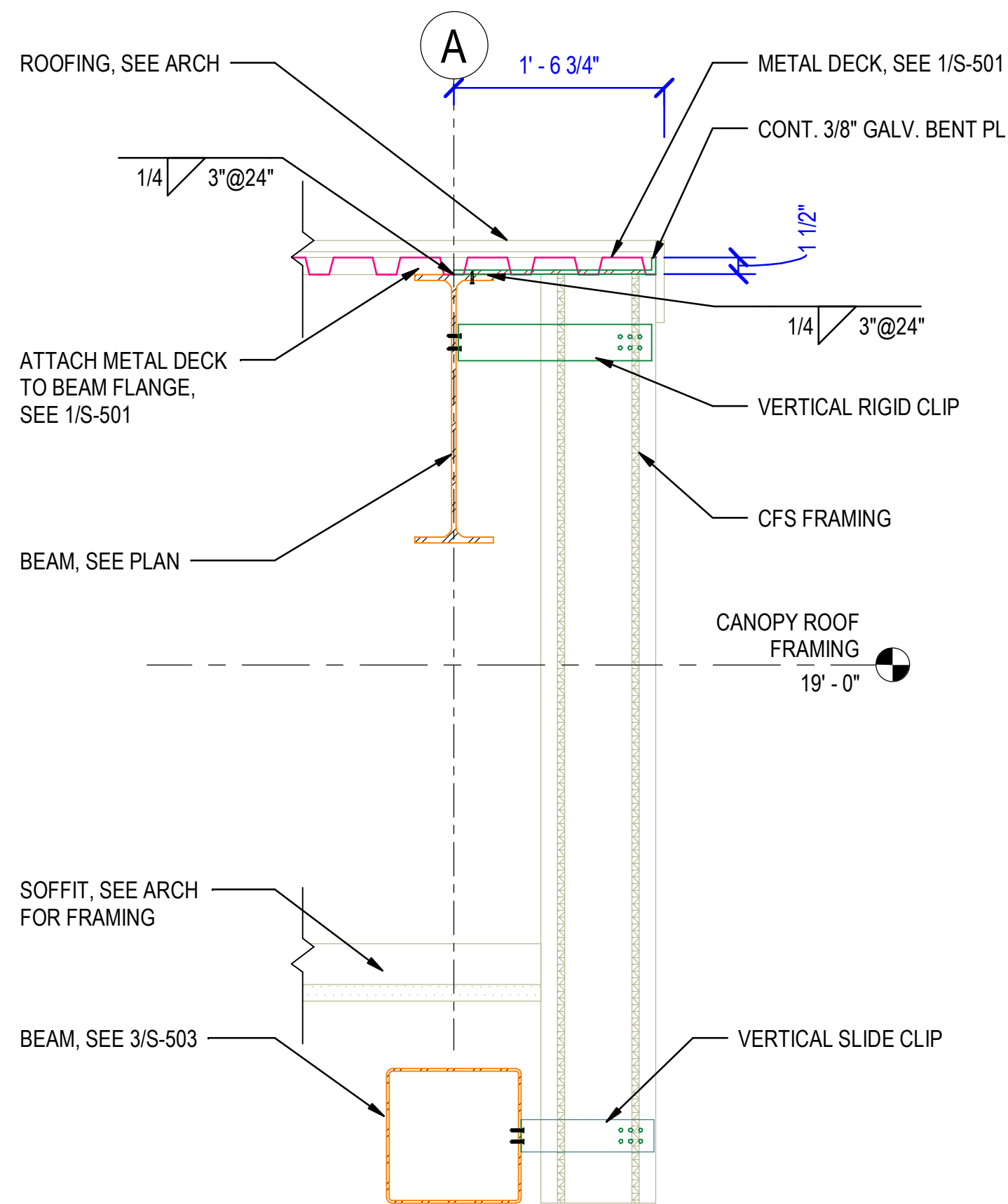
TYPICAL CANOPY
FRAMING DETAILS

Sheet Number

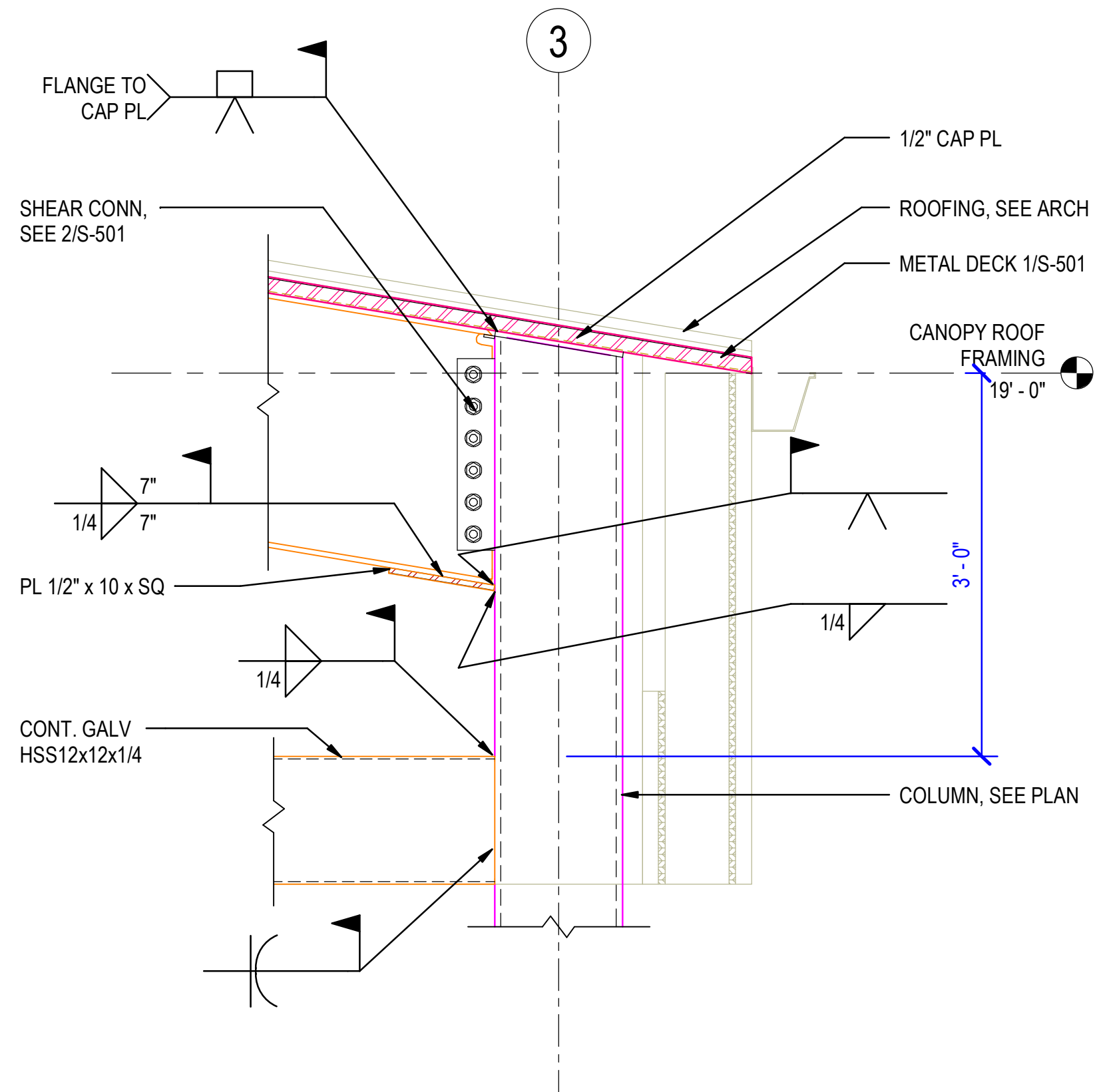
S-503



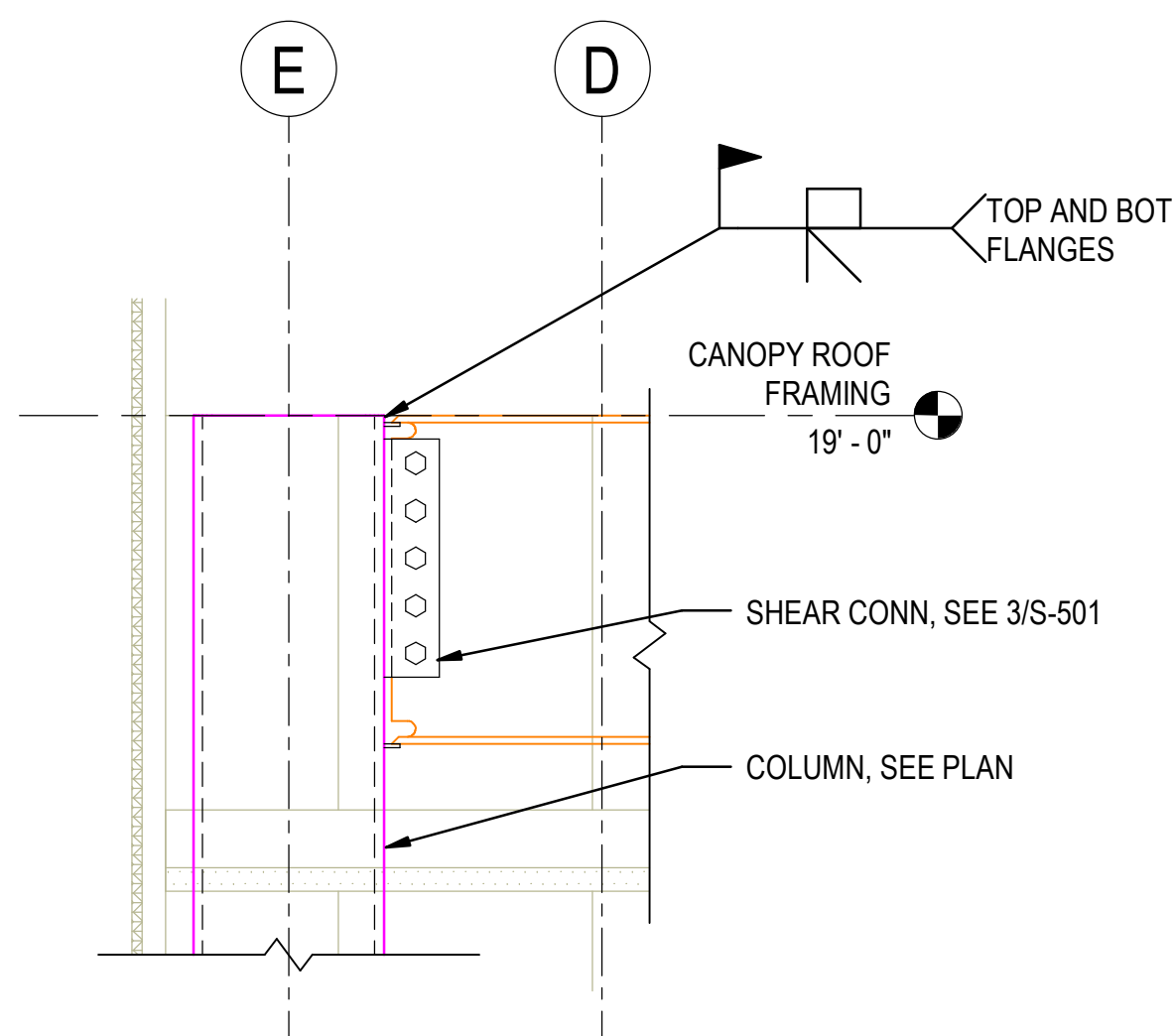
1 TYPICAL SECTION AT CANOPY RIDGE
1" = 1'-0"



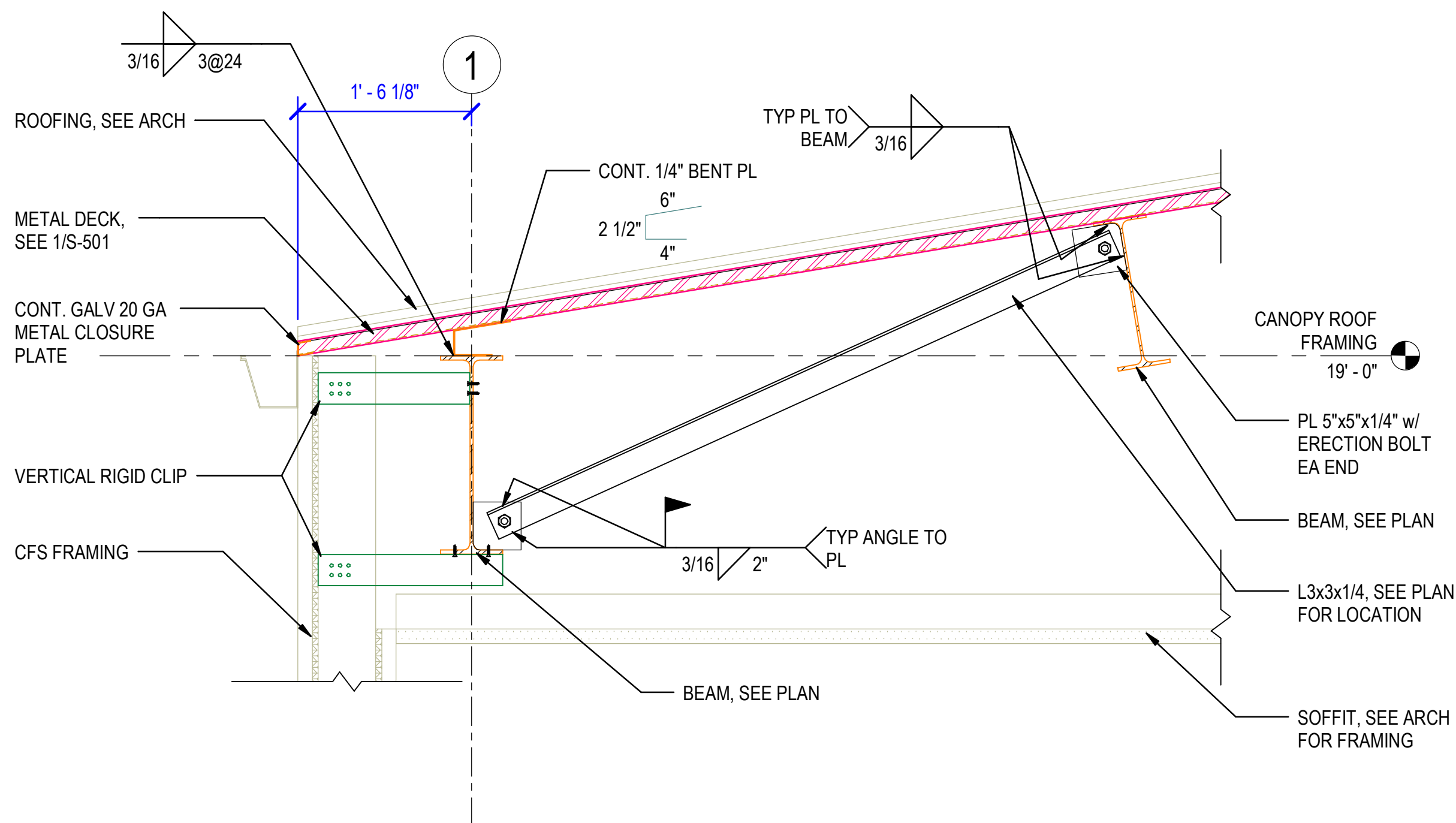
2 TYPICAL CANOPY FRAMING DETAIL
1" = 1'-0"



3 TYPICAL GABLE MOMENT CONNECTION AT CANOPY
1" = 1'-0"



4 TYPICAL CANOPY MOMENT CONNECTION
1" = 1'-0"



5 TYPICAL KICKER DETAIL
1" = 1'-0"

