

GENERAL NOTES

1. THIS PROJECT IS SUBJECT TO IBC 2018 SPECIAL INSPECTION REQUIREMENTS AS MODIFIED BY UFC 3-301-01. THE STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS, INCLUDED WITH THE PROJECT SPECIFICATIONS, DEFINE THE SCOPE OF SPECIAL INSPECTIONS. STRUCTURAL OBSERVATIONS FOR WIND REQUIREMENTS ARE NOT REQUIRED SINCE THE BASIC DESIGN WIND SPEED FOR THE PROJECT LOCATION EXCEEDS 130 MPH AND THE RISK CATEGORY IS NOT III OR IV. STRUCTURAL OBSERVATIONS FOR SEISMIC RESISTANCE ARE NOT REQUIRED SINCE THE SEISMIC DESIGN CATEGORY IS NOT D, E OR F.
2. THE STRUCTURES ASSOCIATED WITH THIS PROJECT DO NOT MEET THE OCCUPANCY LEVELS OF INHABITED BUILDINGS. THEREFORE, THE STRUCTURES ARE EXEMPT FROM UFC 4-010-01 ANTITERRORISM PROVISIONS.
3. COORDINATE STRUCTURAL WORK WITH WORK SHOWN ON OTHER DRAWINGS.
4. THIS CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. PROVIDE MEANS AND METHODS OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, SHORING AND TEMPORARY BRACING TO MAINTAIN THE STRUCTURE IN A SAFE AND STABLE CONDITION AT ALL TIMES. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE ERECTION PROCEDURES AND SEQUENCE OF CONSTRUCTION. UNDERTAKE NECESSARY MEASURES TO ENSURE SAFETY OF PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. VISITS TO THE SITE BY THE CONTRACTING OFFICER OR CONTRACTING OFFICER'S REPRESENTATIVE DO NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY.
5. IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE CONTRACT DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION MUST BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN OR CALLED FOR SUBJECT TO THE APPROVAL OF THE CONTRACTING OFFICER. WHERE SECTIONS VARY, PROVIDE FOR SMOOTH TRANSITIONS BETWEEN THEM, UNLESS NOTED OTHERWISE.
6. REPORT DIMENSIONAL DISCREPANCIES BETWEEN DRAWINGS TO THE CONTRACTING OFFICER PRIOR TO BEGINNING WORK IN AFFECTED AREAS.
7. CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND SUPERVISION OF THE WORK ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
8. DETAILS TITLED OR NOTED AS TYPICAL OR STANDARD APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED BUT ALSO IN OTHER CASES WHERE THE NATURE OF THE CONSTRUCTION REQUIRES THEIR USE. DETERMINE APPLICABILITY OF TYPICAL AND STANDARD DETAILS FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION WITH ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR REFERENCED.
9. SUBJECT IMPACT-PROTECTIVE SYSTEMS AND IMPACT-RESISTANT GLAZING TO MISSILE TEST AND CYCLIC PRESSURE DIFFERENTIAL TESTS IN ACCORDANCE WITH ASTM E 1996. DEMONSTRATE COMPLIANCE WITH ASTM E 1996 IN ACCORDANCE WITH ASTM E 1886 AND COMPLY WITH THE PASS / FAIL CRITERIA OF SECTIONS 7 OF ASTM E 1996. SUBJECT GLAZING IN OVERHEAD COILING AND SECTIONAL DOORS TO MISSILE TESTS AND CYCLIC PRESSURE DIFFERENTIAL TEST IN ACCORDANCE WITH ANSI/DASMA 115, STANDARD METHOD FOR TESTING SECTIONAL GARAGE DOORS AND ROLLING DOORS: DETERMINATION OF STRUCTURAL PERFORMANCE UNDER MISSILE IMPACT AND CYCLIC WIND PRESSURE.
10. PRESSURE TEST OVERHEAD COILING AND SECTIONAL DOORS FOR COMPONENTS AND CLADDING DESIGN WIND PRESSURE. DEMONSTRATE PASSING RESULTS IN ACCORDANCE WITH ANSI/DASMA 108, STANDARD METHOD FOR TESTING SECTIONAL GARAGE DOORS AND ROLLING DOORS: DETERMINATION OF STRUCTURAL PERFORMANCE UNDER UNIFORM STATIC AIR PRESSURE DIFFERENCE.

CODES, CRITERIA, SPECIFICATIONS AND STANDARDS

1. THE INTERNATIONAL BUILDING CODE 2018, AS MODIFIED BY UFC 1-200-01 (8 OCTOBER 2019), IS THE PRINCIPAL BUILDING CODE FOR THIS PROJECT.
2. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
3. UNIFIED FACILITIES CRITERIA:
 - A. UFC 1-200-01 (8 OCTOBER 2019) GENERAL BUILDING REQUIREMENTS
 - B. UFC 3-301-01 (1 OCTOBER 2019) STRUCTURAL ENGINEERING
4. SPECIFICATIONS AND STANDARDS
 - A. ACI 318-14, AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - B. ANSI/AISC 360-16, AMERICAN INSTITUTE OF STEEL CONSTRUCTION, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
 - C. SDI RD-2017, STEEL DECK INSTITUTE, STANDARD FOR STEEL ROOF DECK
 - D. SJI 100-20: 44TH EDITION STANDARD SPECIFICATION LOAD TABLES AND WEIGHT TABLES FOR STEEL JOISTS AND JOIST GIRDERS K-SERIES, LH-SERIES, DLH-SERIES, JOIST GIRDERS

CODES, CRITERIA, SPECIFICATIONS AND STANDARDS (CONTINUED)

- E. ANSI/AISI S100-10, AMERICAN IRON AND STEEL INSTITUTE, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS
- F. AWS D1.1: 2015 AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE - STEEL
- G. TMS 402-16: BUILDING CODE FOR MASONRY STRUCTURES

DESIGN LOADS

1. RISK CATEGORY: II PER UFC 3-301-01 TABLE 2-2.
2. LIVE LOADS ABOVE UFC 3-301-01 TABLE D-1
- A. GROUND FLOOR SLAB:
1. UNIFORM LOAD:
- | | |
|--------------------|---|
| ADMIN | 100 PSF |
| MECHANICAL/STORAGE | 150 PSF |
| MAINTENANCE BAY | 300 PSF |
| VEHICLE WHEEL LOAD | 15,000 LBS |
| VEHICLE LIFT | 17,000 LBS (EQUIPMENT WEIGHT) |
| | 12,000 LBS (POST LOAD: EQUIPMENT + VEHICLE) |
- B. ROOFS:
1. UNIFORM LOAD: 20 PSF
2. CONCENTRATED LOAD: 300 LBS
- UNIFORM AND CONCENTRATED LIVE LOADS HAVE NOT BEEN APPLIED CONCURRENTLY. WHERE BOTH UNIFORM AND CONCENTRATED LOADS ARE INDICATED, THE SUPPORTING STRUCTURE HAS BEEN DESIGNED FOR THE LOAD THAT PRODUCES THE GREATER LOAD EFFECTS.
4. LIVE LOADS FOR FLOOR AND ROOF FRAMING MEMBERS HAVE NOT BEEN REDUCED.
5. BRIDGE CRANE: POWERED 5 TON SINGLE GIRDER, TOP RUNNING, PENDANT-OPERATED WITH 4'-6" (ASSUMED) WHEEL BASE
- A. MAJOR WHEEL LOADS WITHOUT IMPACT INCREASE:
- $W = 6500 \text{ LBS PER WHEEL}$
- B. MAJOR WHEEL IMPACT FORCE: $1.25 \times 6500 \text{ LBS} = 8100 \text{ LBS PER WHEEL}$
1. LATERAL FORCE: 550 LBS PER WHEEL
2. LONGITUDINAL FORCE: 1300 LBS
6. EQUIPMENT LOADS
- A. AS INDICATED FOR EQUIPMENT WEIGHING IN EXCESS OF 200 PSF.
- B. IF EQUIPMENT FURNISHED IS HEAVIER THAN THE WEIGHTS INDICATED OR REQUIRES STRUCTURAL CHANGES FOR ANY OTHER REASON, AT AN ADDITIONAL COST TO THE OWNER AND WITH NO INCREASE IN CONTRACT TIME, PROVIDE ENGINEERING DESIGN CALCULATIONS PREPARED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER AND ADDITIONAL STRUCTURAL WORK NECESSARY TO SUPPORT LOADS IN ACCORDANCE WITH THE DESIGN STANDARDS LISTED ABOVE.
7. ROOF SNOW LOAD DATA

- A. GROUND SNOW LOAD: $P_g = 10$ PSF PER UFC 3-301-01 TABLE E-2
- B. FLAT-ROOF SNOW LOAD: $P_f = 7.0$ PSF
- C. SNOW EXPOSURE FACTOR: $C_e = 1.0$ FOR PARTIALLY EXPOSED AT TERRAIN CATEGORY C
- D. SNOW LOAD IMPORTANCE FACTOR: $I_s = 1.0$
- E. THERMAL FACTOR: $C_t = 1.0$
- F. SLOPE FACTORS: $C_s = 1.0$
- G. DRIFT SURCHARGE LOADS: 21.2 PSF
- H. WIDTH OF SNOW DRIFTS: $w = 5.6$ FEET

DESIGN LOADS (CONTINUED)

9. WIND DESIGN DATA
 - A. BASIC DESIGN WIND SPEED: 140 MPH
 - B. ALLOWABLE STRESS DESIGN WIND SPEED: 108 MPH
 - C. WIND EXPOSURE CATEGORY: C
 - D. INTERNAL PRESSURE COEFFICIENT: +/- 0.18 (ADMIN)
+/- 0.55 (HIGH BAY)
 - E. ENCLOSURE CLASSIFICATION: ENCLOSED (ADMIN)
PARTIALLY ENCLOSED (HIGH BAY)
 - F. TOPOGRAPHIC FACTOR: 1.0
 - G. COMPONENTS AND CLADDING WIND PRESSURES:

DESIGN WIND PRESSURES FOR ROOF COMPONENTS (PSF)				
ROOF ZONE	COMPONENT TRIBUTARY AREA (SQFT)			
	1 - 100		101+	
1	+41	-100	+33	-41
2	+41	-139	+33	-84
3	+41	-163	+33	-92
OVERHANG ZONE	COMPONENT TRIBUTARY AREA (SQFT)			
	1 - 50		50+	
2	-139		-118	
3	-184		-110	

DESIGN WIND PRESSURES FOR WALL COMPONENTS (PSF)				
WALL ZONE	COMPONENT TRIBUTARY AREA (SQFT)			
	1 - 100		100+	
4	+61	-65	+53	-57
5	+61	-76	+53	-61

NOTES:

1. POSITIVE AND NEGATIVE SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
2. BUILDING ZONES ARE DEFINED IN ASCE 7-16.
3. WIND PRESSURES INDICATED ARE AT STRENGTH-LEVEL (WIND FACTOR = 1.0).
4. DESIGN WIND PRESSURES FOR DEFLECTION-CONTROLLED COMPONENTS AND CLADDING MAY UTILIZE A 10-YEAR MEAN RECURRENCE INTERVAL.

- ## 10. EARTHQUAKE DESIGN DATA

- A. SEISMIC IMPORTANCE FACTOR: $I_e = 1.00$
- B. MAPPED SPECTRAL RESPONSE ACCELERATION PARAMETERS:
- $S_s = 0.11g$, $S_1 = 0.05g$ PER UFC 3-301-01 TABLE E-3
- C. SITE CLASS: D
- D. SHORT-PERIOD SITE COEFFICIENT: $F_a = 1.6$
- E. LONG-PERIOD SITE COEFFICIENT: $F_v = 2.4$
- F. DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS:
- $S_{ds} = 0.123g$, $S_{d1} = 0.088g$
- G. SEISMIC DESIGN CATEGORY: B
- H. BASIC SEISMIC FORCE-RESISTING SYSTEM: BEARING WALL SYSTEM WITH ORDINARY REINFORCED MASONRY SHEAR WALLS
- J. DESIGN BASE SHEAR: 11.5 KIPS
- K. SEISMIC RESPONSE COEFFICIENT: $C_s = 0.061$
- L. RESPONSE MODIFICATION COEFFICIENT: $R = 2$
- M. ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE ANALYSIS

DESIGN LOADS (CONTINUED)

11. ROOF RAIN DATA

RAIN INTENSITY: $i = 4$ INCH/HOUR
12. NOTIONAL LOADS FOR GENERAL STRUCTURAL INTEGRITY:
 - A. LOAD PATH CONNECTIONS: 5% OF THE CONNECTED PORTION'S WEIGHT
 - B. LATERAL FORCES: DESIGN LATERAL FORCE APPLIED AT A STORY EQUAL TO 1% OF THE PORTION OF THE TOTAL DEAD LOAD OF THE STRUCTURE LOCATED OR ASSIGNED TO A LEVEL.
 - C. CONNECTION TO SUPPORTS: 5% OF THE UNFACTORED DEAD LOAD PLUS LIVE LOAD REACTION IMPOSED BY THE SUPPORTED MEMBER ON THE SUPPORTING MEMBER.
 - D. ANCHORAGE OF STRUCTURAL WALLS: STRENGTH LEVEL HORIZONTAL FORCE PERPENDICULAR TO THE PLANE OF THE WALL EQUAL TO 20% OF THE WEIGHT OF THE WALL TRIBUTARY TO THE CONNECTION, BUT NOT LESS THAN 5 PSF.

DELEGATED ENGINEERED SYSTEM

1. DESIGN RESPONSIBILITY FOR THE FOLLOWING ENGINEERED SYSTEMS OR COMPONENT PARTS IS DELEGATED TO A QUALIFIED DELEGATED REGISTERED PROFESSIONAL ENGINEER SELECTED BY THE CONTRACTOR.
 - A. STRUCTURAL STEEL CONNECTIONS EXCEPT FOR PRIMARY LATERAL FORCE RESISTING SYSTEM CONNECTIONS, COLUMN BASEPLATE CONNECTIONS AND CONNECTIONS WHERE SPECIFIC BOLT SIZES AND QUANTITY, PLATE SIZES AND OTHER CONNECTION COMPONENTS ARE NOTED. REFER TO STRUCTURAL STEEL FRAMING CONNECTION DESIGN REACTIONS ON SF501 FOR MAGNITUDE AND DIRECTION OF STRUCTURAL STEEL FRAMING CONNECTION REACTIONS.
 - B. COLD-FORMED METAL FRAMING REACTIONS AND CONNECTIONS
 - C. OPEN WEB STEEL JOISTS
 - D. SEISMIC DESIGN, ANCHORAGE AND BRACING OF NONSTRUCTURAL COMPONENTS
2. REFER TO DESIGN STANDARDS NOTES ON S-001 FOR APPLICABLE DESIGN STANDARDS AND CRITERIA.
3. REFER TO DESIGN LOADS NOTES ON S-001 FOR APPLICABLE DESIGN LOADS.
4. REFER TO SERVICEABILITY LIMITS NOTES ON S-001 FOR APPLICABLE VERTICAL AND HORIZONTAL DEFLECTION LIMITS.
5. INCLUDE SIGNED SEALS FOR WORK DESIGNED BY THE DELEGATED ENGINEER.
6. DO NOT START FABRICATION OF THE DELEGATED SYSTEM OR COMPONENT PART OR FIELD CONSTRUCTION THAT MAY BE AFFECTED BY THE SYSTEM OR COMPONENT PART WITHOUT SUBMITTAL APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.

SERVICEABILITY LIMITS

1. FOUNDATION SETTLEMENT LIMIT: NOT TO EXCEED 1/2 - INCH DIFFERENTIAL OR 1-INCH TOTAL.
2. BUILDING LATERAL DRIFT:

H/480 BASED ON ALLOWABLE STRESS DESIGN WIND SPEED WITH A 10 YEAR MEAN RECURRENCE INTERVAL.
3. WIND INDUCED DEFLECTION LIMITS FOR FRAMING SUPPORTING EXTERIOR WALL FINISHES BASED ON 0.42 TIMES THE BASIC COMPONENT AND CLADDING LOADS.
4. L/600 FOR HORIZONTAL ELEMENTS SUPPORTING BRICK VENEER.

ROUGH CARPENTRY NOTES

1. PROVIDE WOOD FRAMING MEMBERS IN ACCORDANCE WITH PS20 "AMERICAN SOFTWOOD LUMBER STANDARD" AND THE FOLLOWING REQUIREMENTS:
 - A. MOISTURE CONTENT: 19 PERCENT (BEFORE & AFTER TREATMENT)
 - B. GRADE: NO. 2 OR BETTER
 - C. SPECIES: SOUTHERN PINE
2. ALL WOOD IN BRIDGE MUST BE PRESERVATIVE TREATED FOR EXTERIOR EXPOSURE. RETREAT CUT ENDS OF WOOD MEMBERS.
3. STEEL PLATE CONNECTORS MUST COMPLY WITH ASTM A36 SPECIFICATIONS (FY=36 KSI). BOLTS CONNECTING WOOD MEMBERS MUST COMPLY WITH ASTM A307 COMMON STEEL BOLTS, 3/4", UNLESS OTHERWISE NOTED. ALL FASTENERS MUST BE HOT-DIP GALVANIZED.
4. UNLESS OTHERWISE NOTED, NAIL STRUCTURAL FRAMING MEMBERS IN ACCORDANCE WITH THE FASTENING SCHEDULE, "TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE.


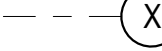


GEOTECHNICAL INFORMATION

1. THE INFORMATION PROVIDED IN THE GEOTECHNICAL DESIGN REPORT PREPARED BY NAVFAC MIDLANT, DATED FEBRUARY 8, 2021 HAS BEEN USED FOR THE DESIGN OF THE FOUNDATIONS.
- A. SITE PREPARATION
 1. EXCAVATE, FILL, AND BACKFILL IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
 2. NOTIFY THE CONTRACTING OFFICER WHEN LOOSE OR SOFT SOILS ARE EXPOSED WHERE SLABS OR FOOTINGS ARE TO BE PLACED SO THAT A DETERMINATION MAY BE MADE REGARDING IMPROVEMENT OF THIS POTENTIALLY UNDESIRABLE CONDITION.
 3. ALL FOUNDATIONS MUST BE UNDERCUT AS SHOWN ON SHEET SB501.
2. SOIL AND SITE CHARACTERISTICS
 - A. UNIT WEIGHT: 140 PCF MOIST.
 - B. MODULUS OF SUBGRADE REACTION: 150 PCI
 - C. FROST PENETRATION: 0 INCHES
3. NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF FOR SHALLOW FOUNDATIONS.

TIMBER PILE NOTES

1. TIMBER PILE FOUNDATIONS HAVE BEEN DESIGNED BASED ON THE INFORMATION PROVIDED IN THE GEOTECHNICAL DESIGN REPORT PREPARED BY NAVFAC MIDLANT, DATED FEBRUARY 8, 2021.
2. TIMBER PILES MUST COMPLY WITH REQUIREMENTS OF ASTM D25 FOR ROUND TIMBER TIP BEARING PILES. PILES MUST BE CLEAN PEELED AND PRESSURE TREATED IN ACCORDANCE WITH AWWA U1 UC4B.
3. INSTALL TIMBER PILES WITH IMPACT HAMMER.
4. TIMBER PILES MUST BE MIN 12-INCH BUTT DIAMETER AND MIN 9-INCH TIP DIAMETER.
5. MINIMUM TIP ELEVATION IS -1 FEET NAVD88.
6. DESIGN ALLOWABLE CAPACITY FOR PILES:
AXIAL COMPRESSION: 6K
LATERAL: .5K (FREE HEAD)
.85K (FIXED HEAD)
AXIAL UPLIFT: 1.5K
7. SUBMIT WAVE-EQUATION ANALYSIS AND DRIVABILITY STUDY (USING GRLWEAP SOFTWARE), BASED ON THE PROPOSED INSTALLATION HAMMER.

PLAN LEGEND

	DEMOLITION KEY NOTE		COLUMN GRID MARK
	NEW WORK KEY NOTE		BEAM TO BEAM MOMENT CONNECTION
W12X26	FRAMING SIZE		
W12X26	EXISTING FRAMING SIZE		
<u>TOF X' - X"</u>	TOP OF FOUNDATION		
<u>TOC X' - X"</u>	TOP OF CONCRETE		
<u>TOS X' - X"</u>	TOP OF STEEL		
<u>TOM X' - X"</u>	TOP OF MASONRY		
X"	TOP OF SLAB SPOT ELEVATION		

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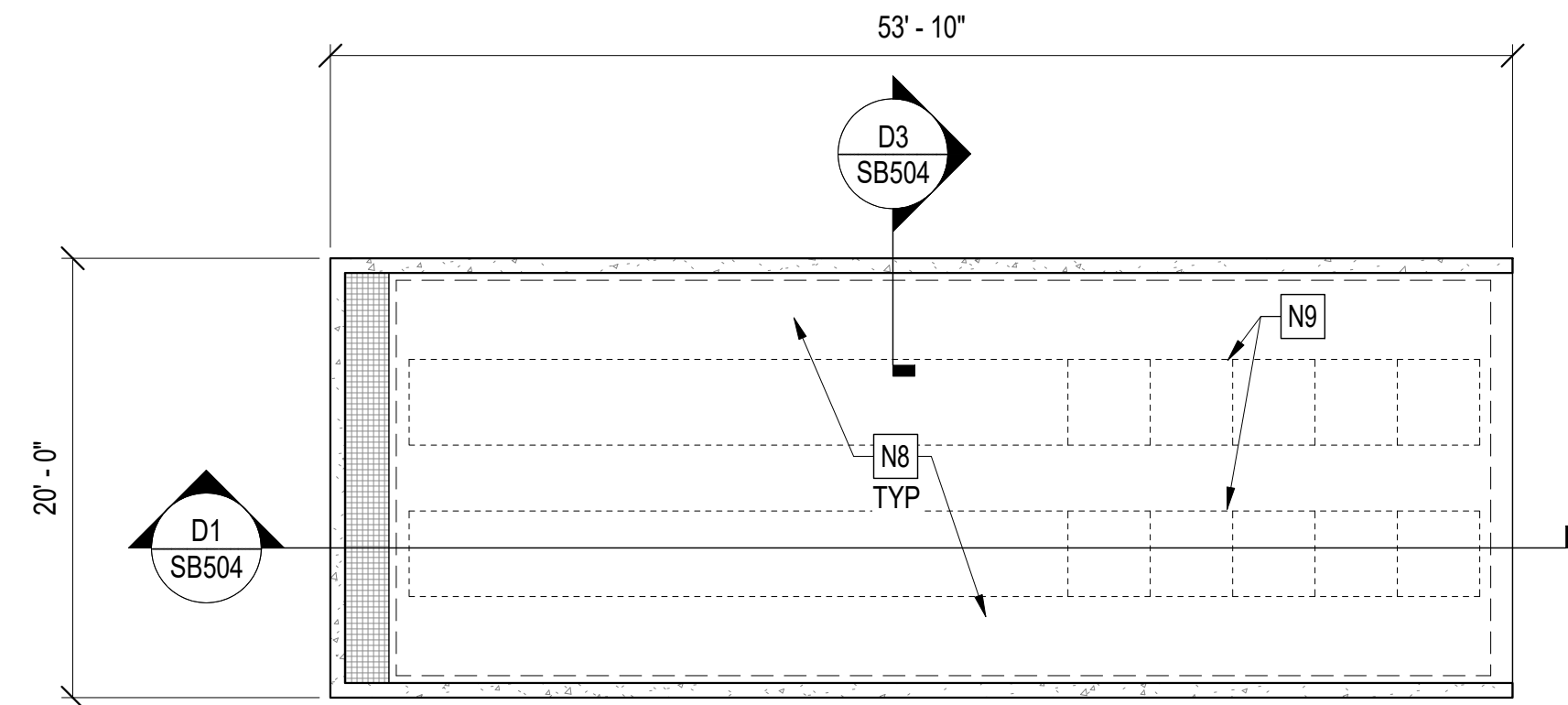
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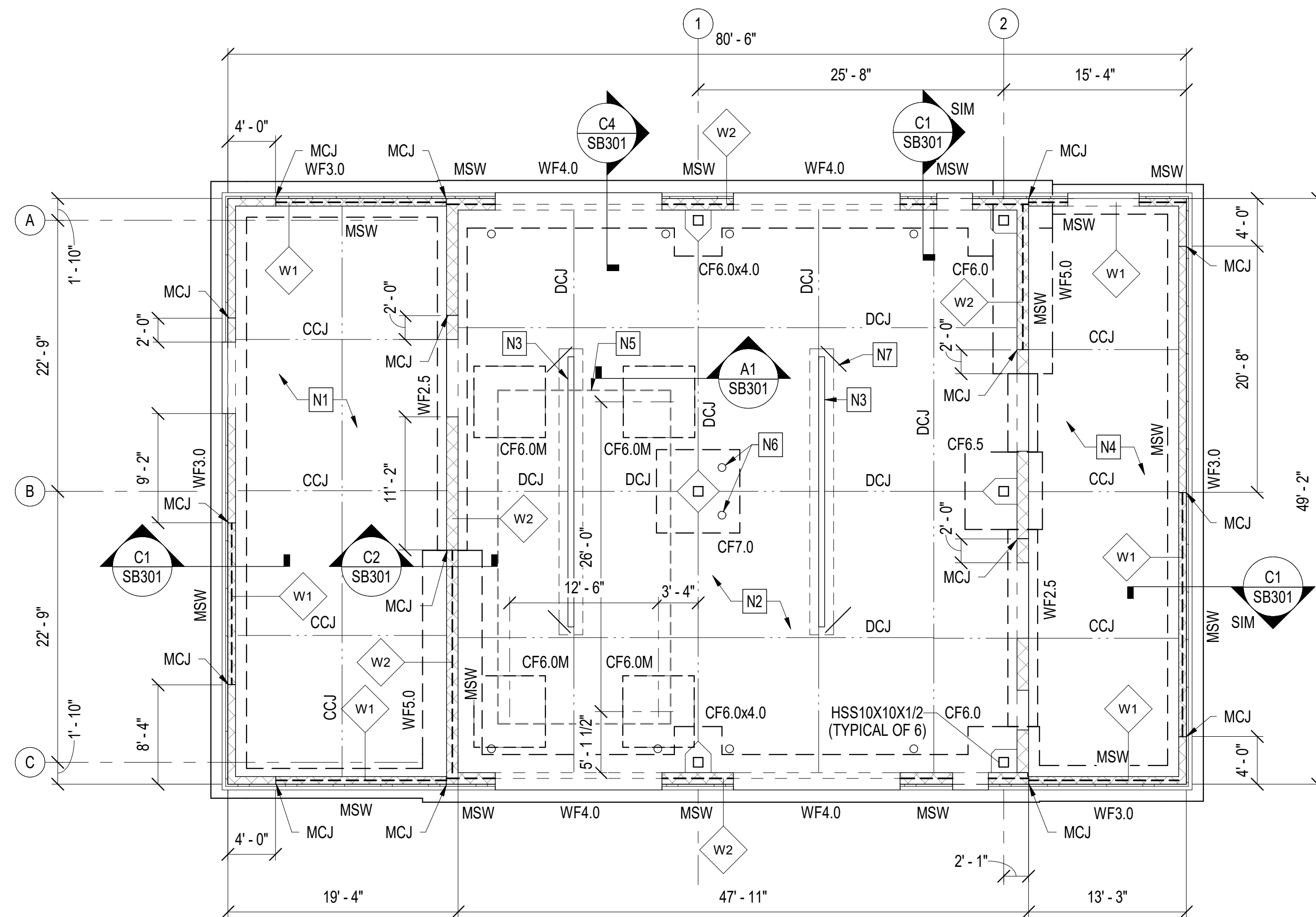
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FOR COMMANDER NAVFAC											
ACTIVITY											
Approved by LtCol Roger Holdaway, Director I&E, MCAS New River											
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BRANCH/MANAGER		EJA									
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FIRE PROTECTION		DSN									
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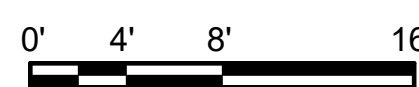


D2 WASHRACK SLAB PLAN NOTE: COORDINATE LOCATION ON SITE WITH CIVIL DRAWINGS.




FOUNDATION AND GROUND FLOOR PLAN

1/8" = 1'-0"



FOUNDATION GENERAL NOTES

1. REFER TO S-001 AND S-002 FOR GENERAL NOTES AND PLAN LEGEND AND SB501 - SB503 FOR FOUNDATION DETAILS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
3. REFER TO PLAN KEY NOTES FOR CONCRETE FLOOR CONSTRUCTION.
4. TOP OF ALL FOOTINGS SHALL BE AT ELEVATION [-1'-4"] REFERENCED FROM FINISHED FIRST FLOOR SLAB ELEVATION [0'-0"], UNLESS OTHERWISE NOTED ON PLAN.
5. WALL FOOTINGS ARE DENOTED WFX.X ON PLAN. REFER TO SHEET SB501 FOR FOOTING SCHEDULE AND TYPICAL DETAILS.
6. ALL ELEVATIONS ARE BASED ON A FINISHED FLOOR ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR ACTUAL ELEVATION. REFER TO ARCHITECTURAL DRAWINGS FOR FIRST FLOOR FINISHES.
7. REFER TO CIVIL DRAWINGS FOR EXTERIOR SLABS AND PAVEMENT.
8. THE SYMBOLS CCJ AND DCJ INDICATES SLAB CRACK CONTROL JOINT AND SLAB DOWEL CONTROL JOINT RESPECTIVELY, WHICH MAY BE EITHER A CONSTRUCTION JOINT OR A SAWED JOINT. REFER TO TYPICAL SLAB CONTROL JOINT DETAILS ON SHEET SB502.
9. REFER TO SHEET SB501 FOR DETAIL OF PIPE SLEEVE THROUGH FOUNDATION DETAIL.
10. MSW INDICATES MASONRY SHEAR WALL. REINFORCE WITH TYPICAL WALL REINFORCING AS INDICATED IN THE SCHEDULE FOR EACH WALL TYPE.
11. LOCATE MASONRY CONTROL JOINT LOCATIONS AS INDICATED ON PLAN. CONTROL JOINTS ARE NOT PERMITTED TO BE LOCATED WITHIN SHEAR WALLS NOTED ON PLAN.
12. ALL CONCRETE MASONRY WALLS ARE WALL TYPE W1 UNLESS NOTED WX ON PLAN. REFER TO MASONRY WALL SCHEDULE ON SHEET SB503.
13. CAST-IN-PLACE CONCRETE COLUMN FOOTING ARE NOTED THUS CFX.X ON PLAN. REFER TO SCHEDULE ON SHEET SB501.
14. SHEAR WALLS ARE INDICATED ON PLAN THUS:  REINFORCE WITH TYPICAL WALL REINFORCING AS INDICATED IN THE SCHEDULE FOR EACH WALL TYPE.

FOUNDATION KEY NOTES

- N1 5-INCH CONCRETE SLAB-ON-GRADE REINFORCED WITH ONE LAYER OF 6X6-W2.9XW2.9 WELDED WIRE REINFORCEMENT OVER VAPOR RETARDER AND 6-INCH DEEP POROUS FILL
- N2 7-INCH CONCRETE SLAB-ON-GRADE REINFORCED #3 AT 12" OC, EACH WAY OVER VAPOR RETARDER AND 6-INCH DEEP POROUS FILL
- N3 TRENCH DRAIN, REFER TO PLUMBING DRAWINGS FOR EXACT LOCATION. REFER TO TYPICAL DETAIL ON SHEET SB301.
- N4 6-INCH CONCRETE SLAB-ON-GRADE REINFORCED WITH ONE LAYER OF 6X6-W2.9XW2.9 WELDED WIRE REINFORCEMENT OVER VAPOR RETARDER AND 6-INCH DEEP POROUS FILL
- N5 OUTLINE OF 35,000 LB CAPACITY, 4-POST VEHICLE LIFT. REFER TO SHEET AE101 FOR PROPOSED LIFT LOCATION. CONTRACTOR MUST COORDINATE LIFT LOCATION WITH CONTRACTING OFFICER AND SEOR PRIOR TO FOUNDATION INSTALLATION.
- N6 BOLLARD, REFER TO ARCHITECTURAL DRAWINGS AND DETAIL ON SHEET SB301.
- N7 REENTRANT BAR, TYPICAL. REFER TO DETAIL ON SB502 FOR REENTRANT BAR ADJACENT TO SLAB JOINT
- N8 8-INCH CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 AT 12" OC, EACH WAY OVER 12" DEPTH OF #57 STONE WRAPPED IN NON WOVEN GEOTEXTILE.
- N9 WASH RACK RAMP DESIGNED BY OTHERS. COORDINATE ANCHOR EMBEDMENT REQUIREMENTS WITH EQUIPMENT MANUFACTURER. WASH RAMP ANCHORS MUST NOT EXCEED 6" EMBEDMENT. REFER TO SHEET AE530 SECTION A1 AND A4 FOR WASH RAMP DETAILS.

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REF

Age Group	1980	1990	2000	2010	2020
0-14	18.0	16.0	14.0	12.0	10.0
15-24	12.0	11.0	10.0	9.0	8.0
25-34	10.0	9.0	8.0	7.0	6.0
35-44	8.0	7.0	6.0	5.0	4.0
45-54	6.0	5.0	4.0	3.0	2.0
55-64	4.0	3.0	2.0	1.0	0.0
65-74	2.0	3.0	4.0	5.0	6.0
75+	1.0	2.0	3.0	4.0	5.0

APPROVED

Approved by LtCol Roger Holliday,
Director I&E, MCAS New River

SATISFACTORY TO		DATE		06/14/21	
DES	LSP	DRW	BS	CHK	TER
PM/DM				GFS/LEJ	

BRANCH MANAGER	NBJ
CHIEF ENGINEER/ARCH	EJA
FIRE PROTECTION	DSN

AND
WOLFOLK, VA
CAROLINA
IOPCOMMUNICATIONS
STATION - NORTH CAMP
NORTH CAMP
NATIONAL SHIP

PLAN

AND FLOOR

ENGINEERING
JACOB
MOTIVE CO
AND GROUND

ENGINE
AUTOMC
DATION A

CS-2 AU

NEW RIVER
85 MAC

NAVJAG
DEPARTMENT OF JUSTICE
MILITANT DOMESTIC TERRORISM
MCAS NEEDHAM
P-6

SCALE: AS NOTED
PROJECT NO.: 1672404
CONSTR. CONTR. NO.


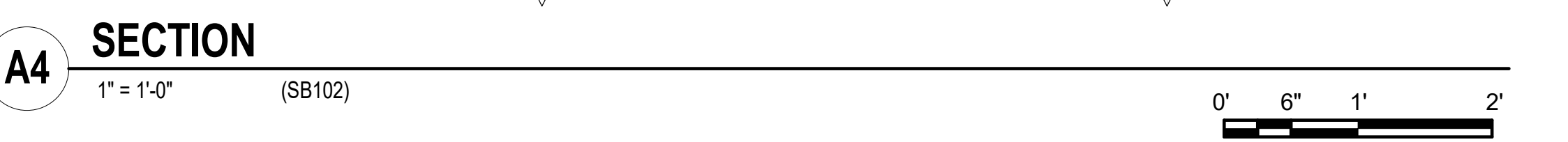
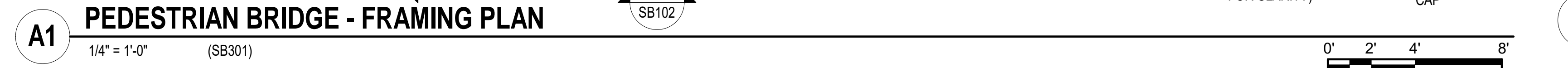
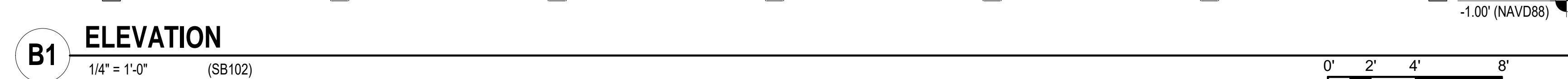
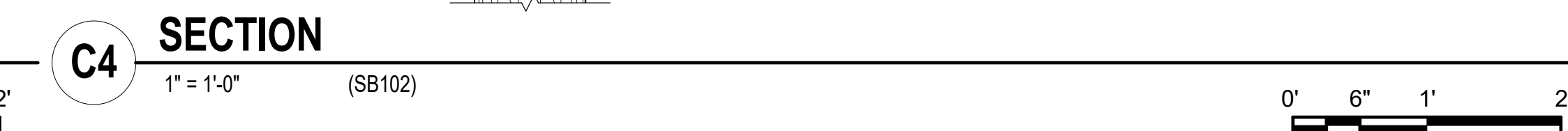
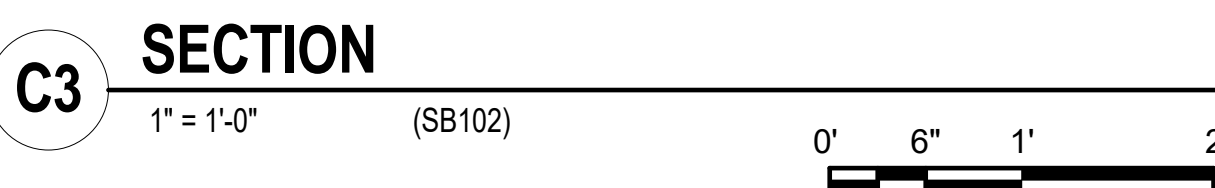
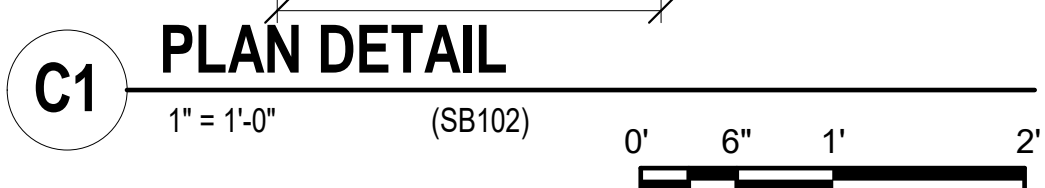
NAVFAC DRAWING NO.
12842258

SHEET 31 OF 117

SB101

DRAWFORM REVISION: 12 APRIL 2018

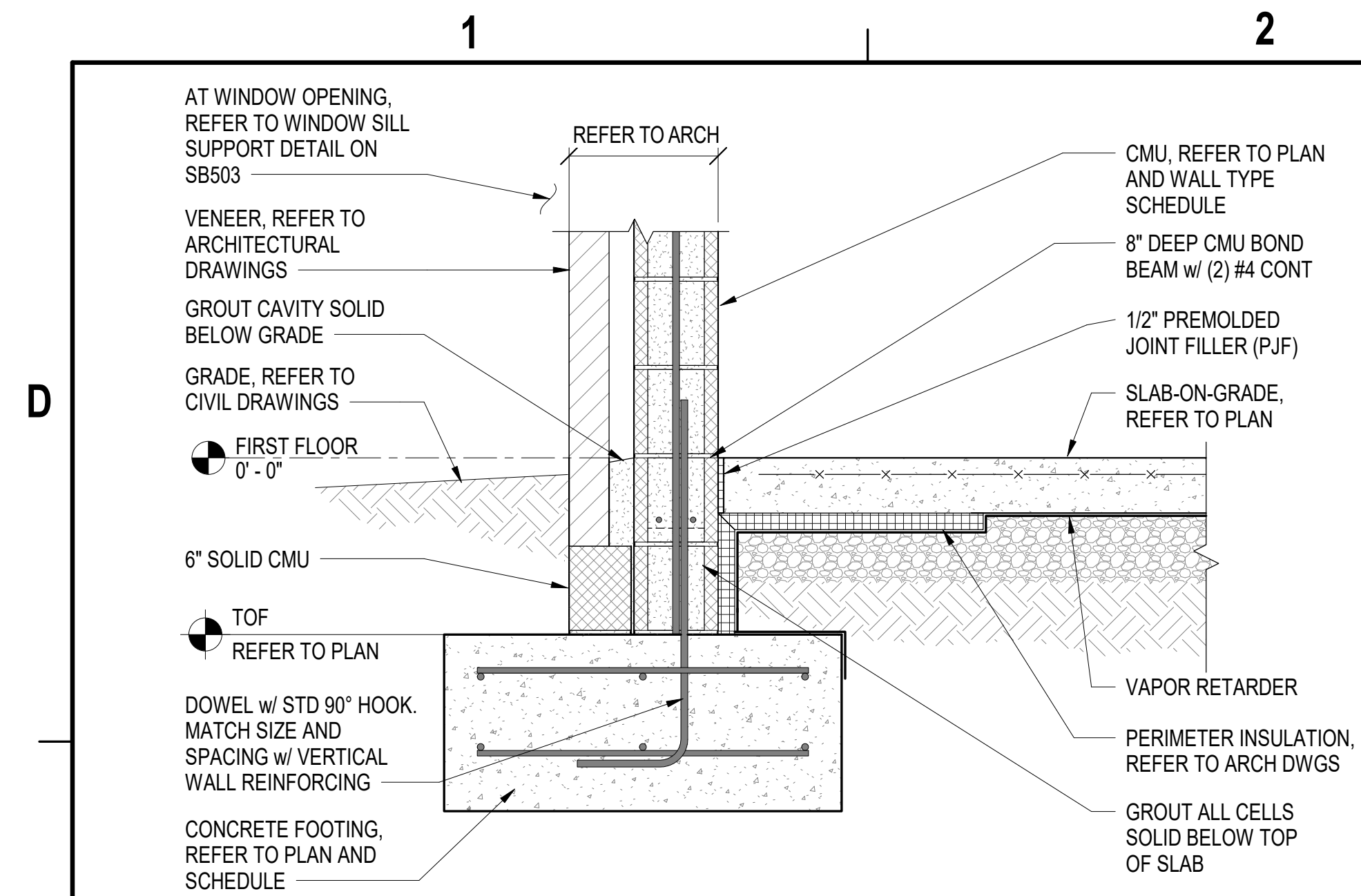
1. REFER TO CIVIL DRAWINGS FOR ALIGNMENT AND ELEVATIONS.
2. BRIDGE DESIGNED FOR UNIFORM PEDESTRIAN LOADING OF 90 PSF. IN ACCORDANCE WITH AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES.
3. BRIDGE DESIGNED FOR WIND LOADS IN ACCORDANCE WITH AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES.
4. BLOCK AND SHIM BRIDGE FRAMING, AND ADD ADDITIONAL FRAMING MEMBERS AS NEEDED, TO PROVIDE A CONTINUOUS WALKWAY ON THE INDICATED ALIGNMENT.
5. HANDRAILS AND GUARDRAILS MUST BE CONTINUOUS ALONG BRIDGE WALKWAY.



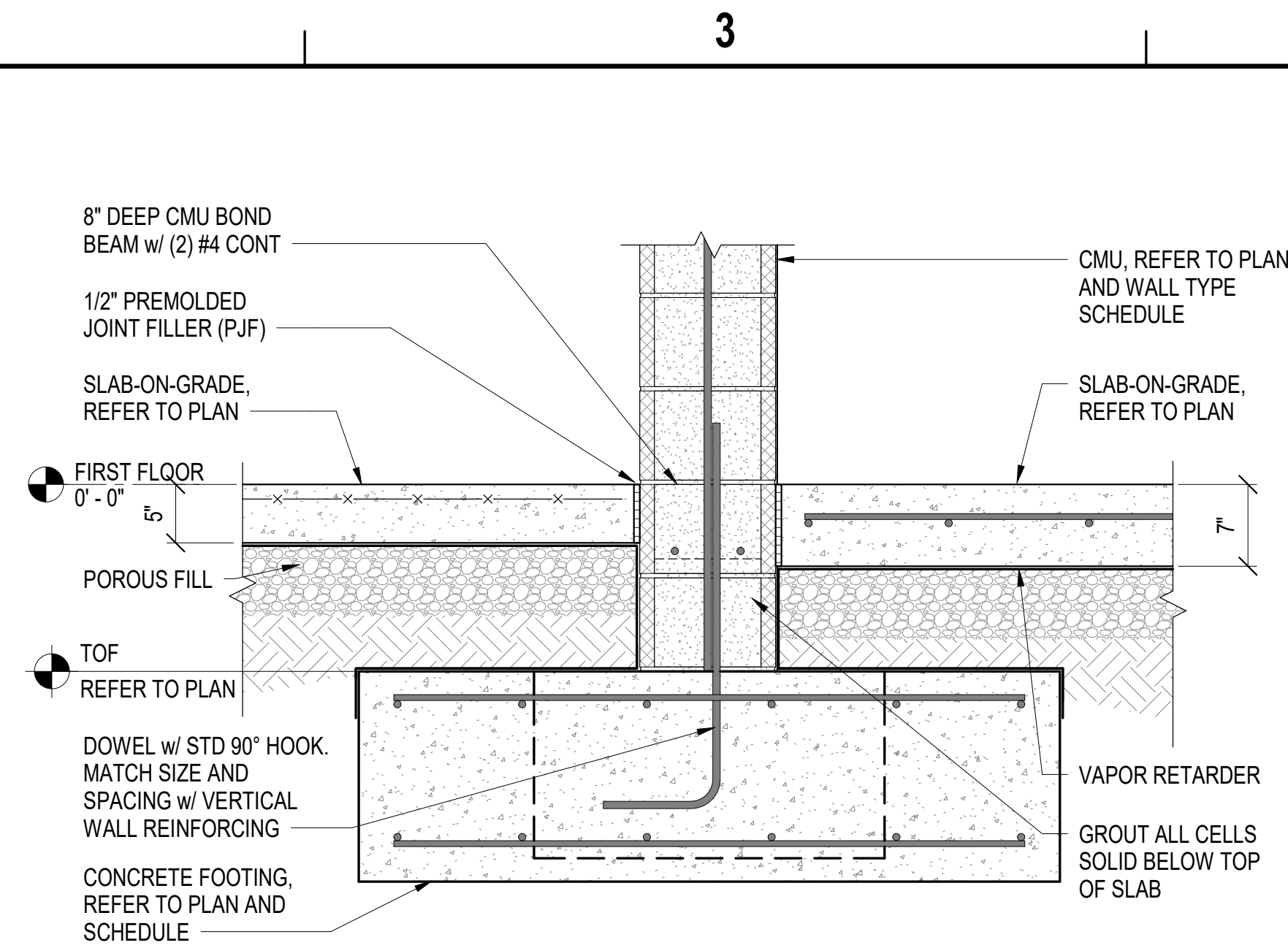
A-15 (NEC)

ENGINEERING SYSTEMS COMMAND	NAVAL STATION - NORFOLK, VA LE, NORTH CAROLINA TIONAL SHOP
EMS COMMAND	
NAVAL STATION - NORFOLK, VA	AILS

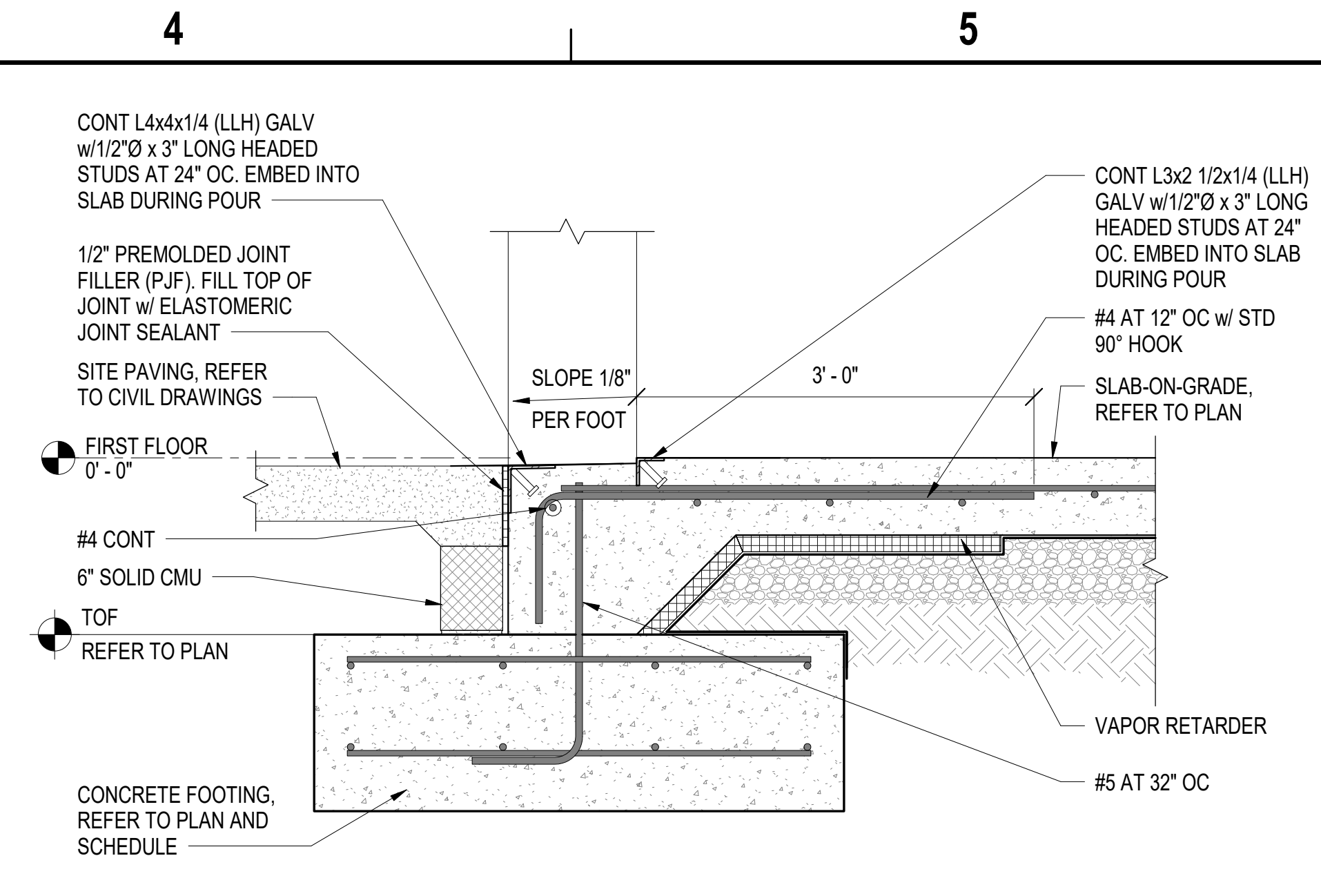
SCALE: AS NOTED		
EPROJECT NO.:		1672404
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.		
		12842259
SHEET	32	OF 117
SB102		



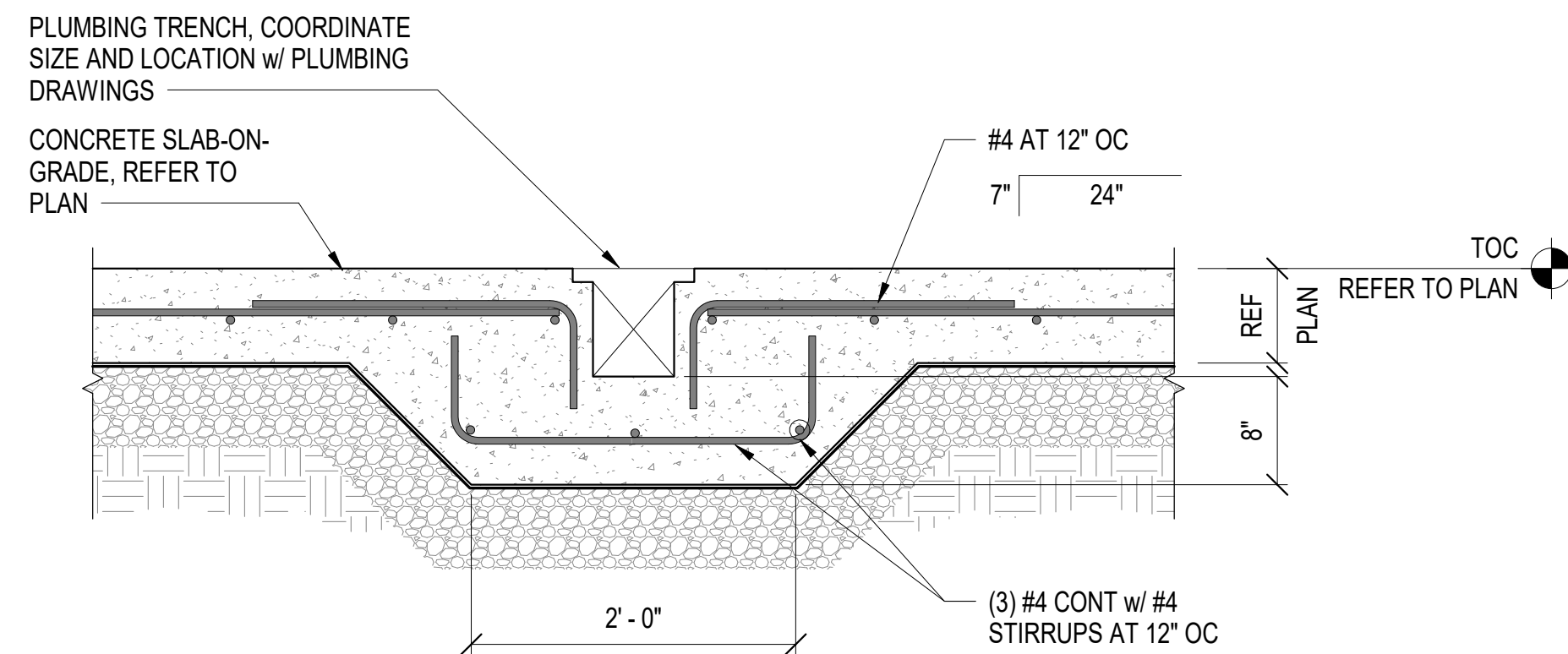
C1 **SECTION**
1" = 1'-0"



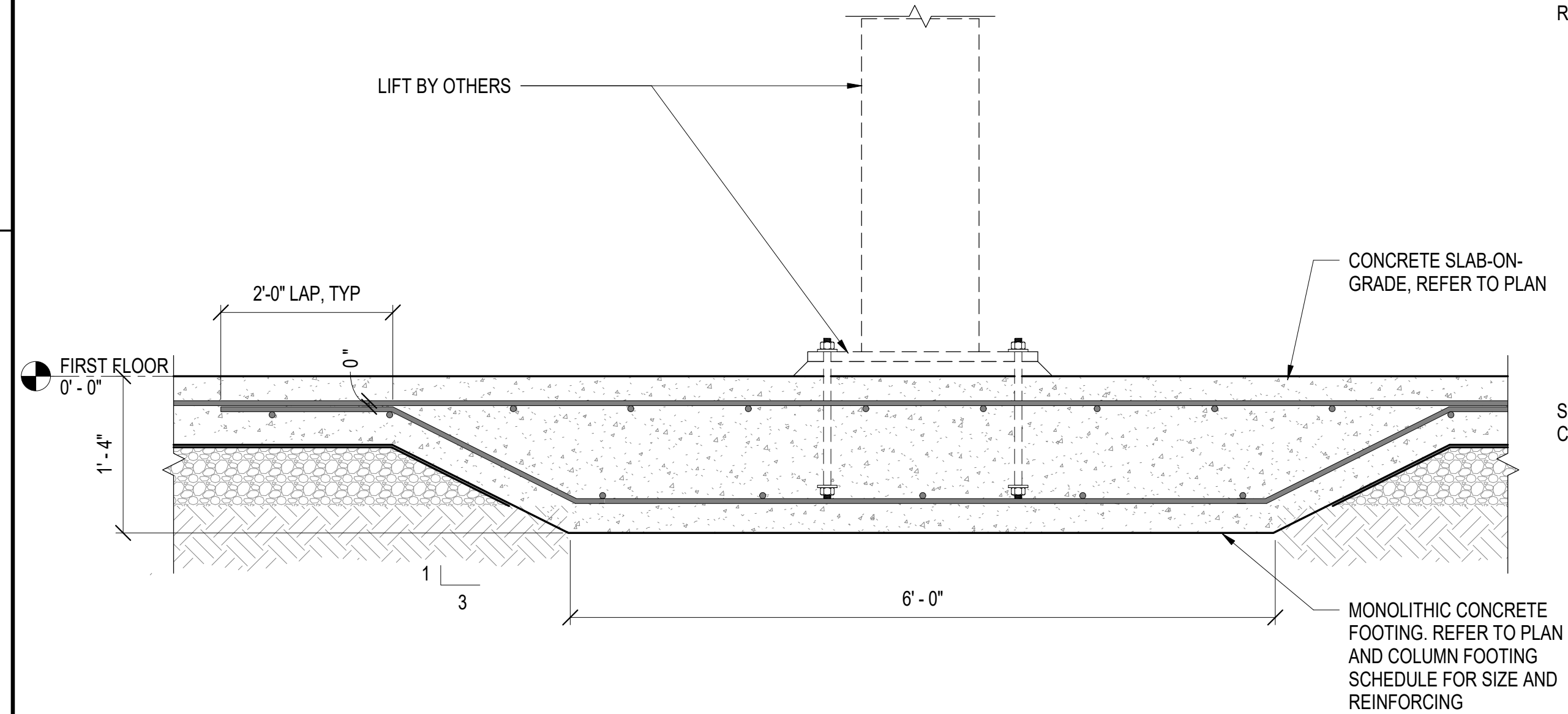
C2 **SECTION**
1" = 1'-0"



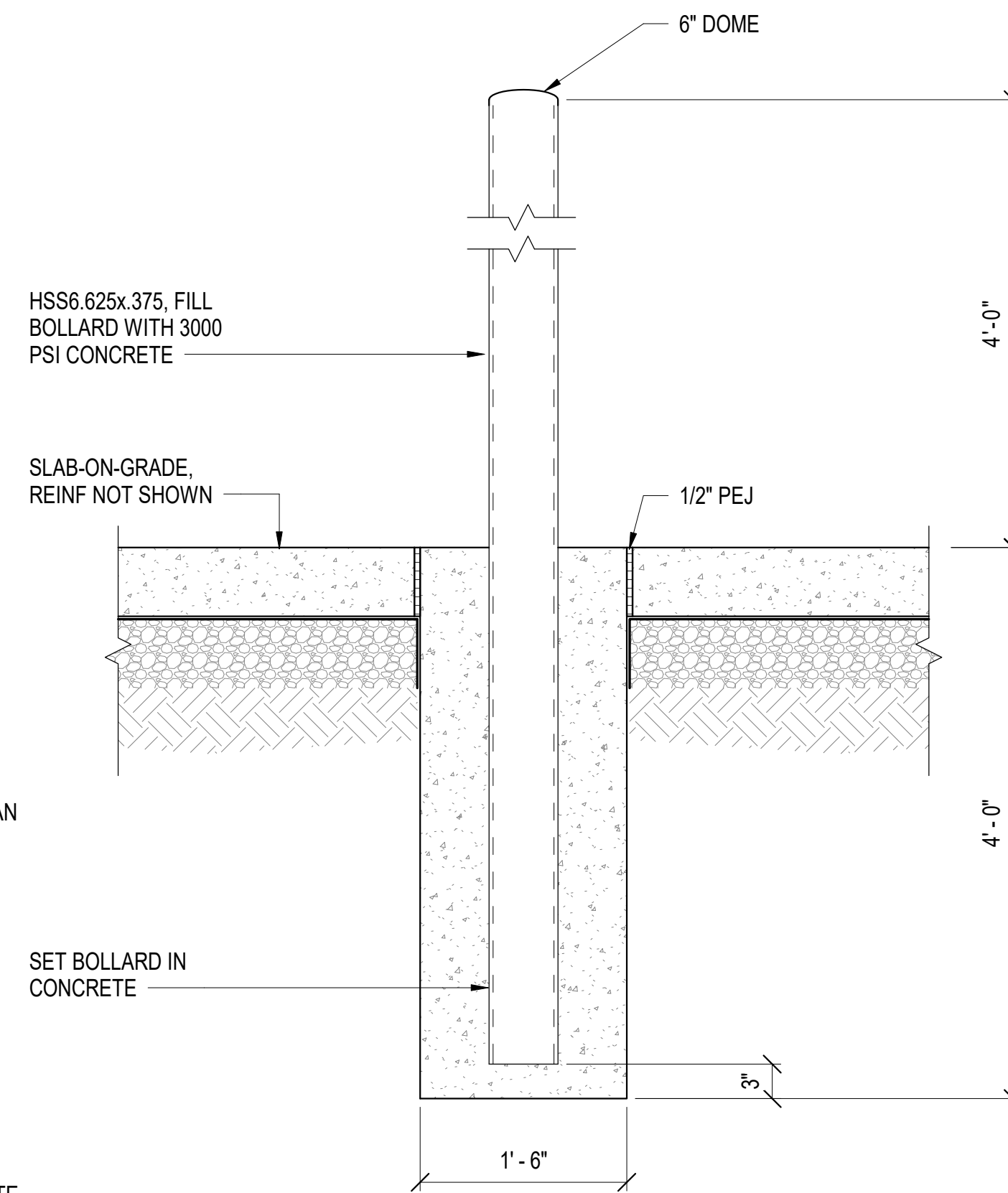
C4 **SECTION**
1" = 1'-0"



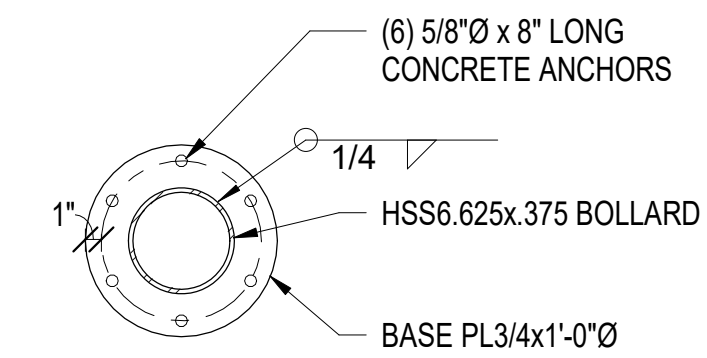
B1 **SLAB TRENCH DETAIL**
1" = 1'-0"



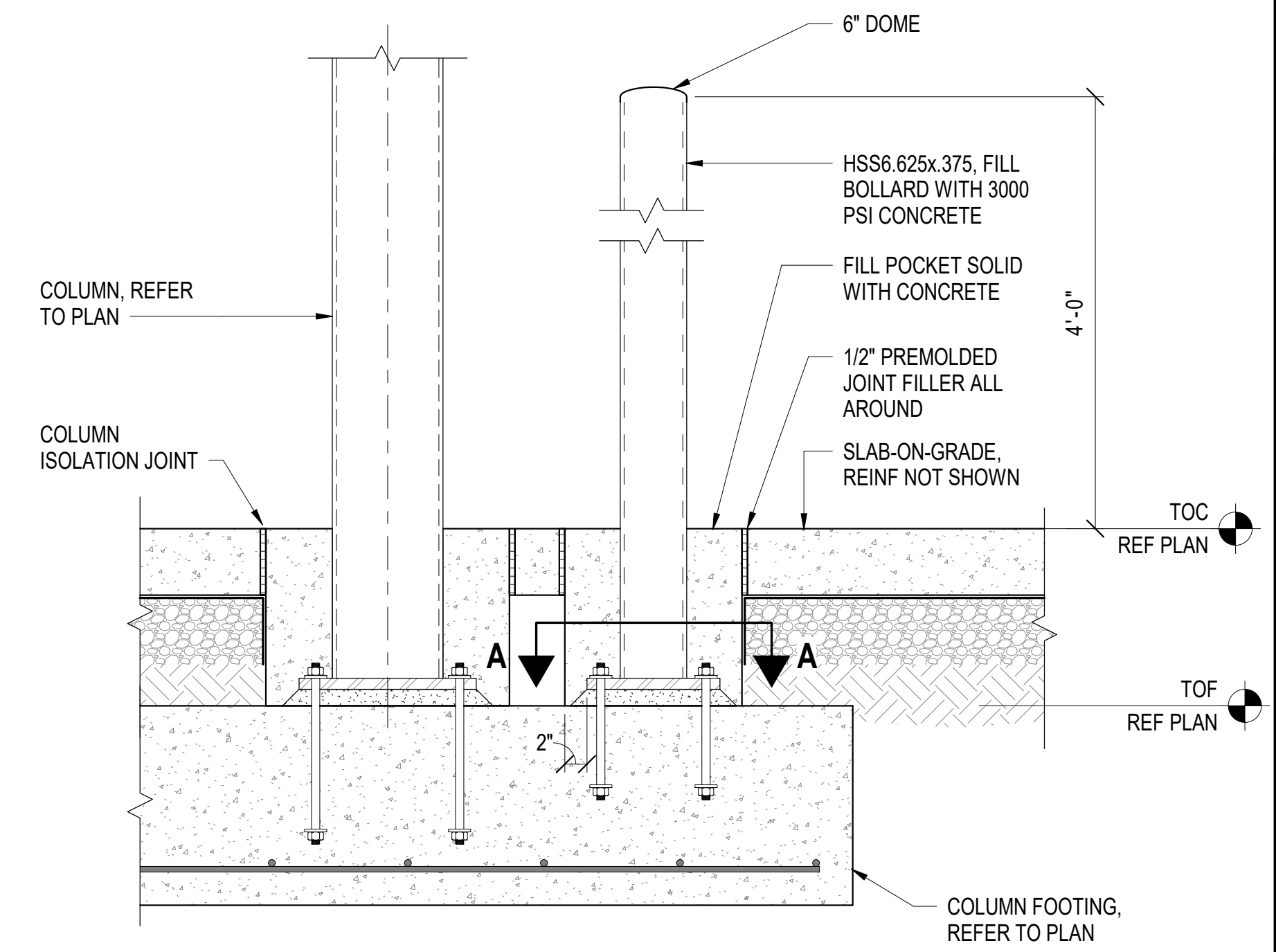
A1 **SECTION**
1" = 1'-0"



TYPICAL - ISOLATED



SECTION A-A



AT COLUMN FOOTING

[illegible]

AE INFO

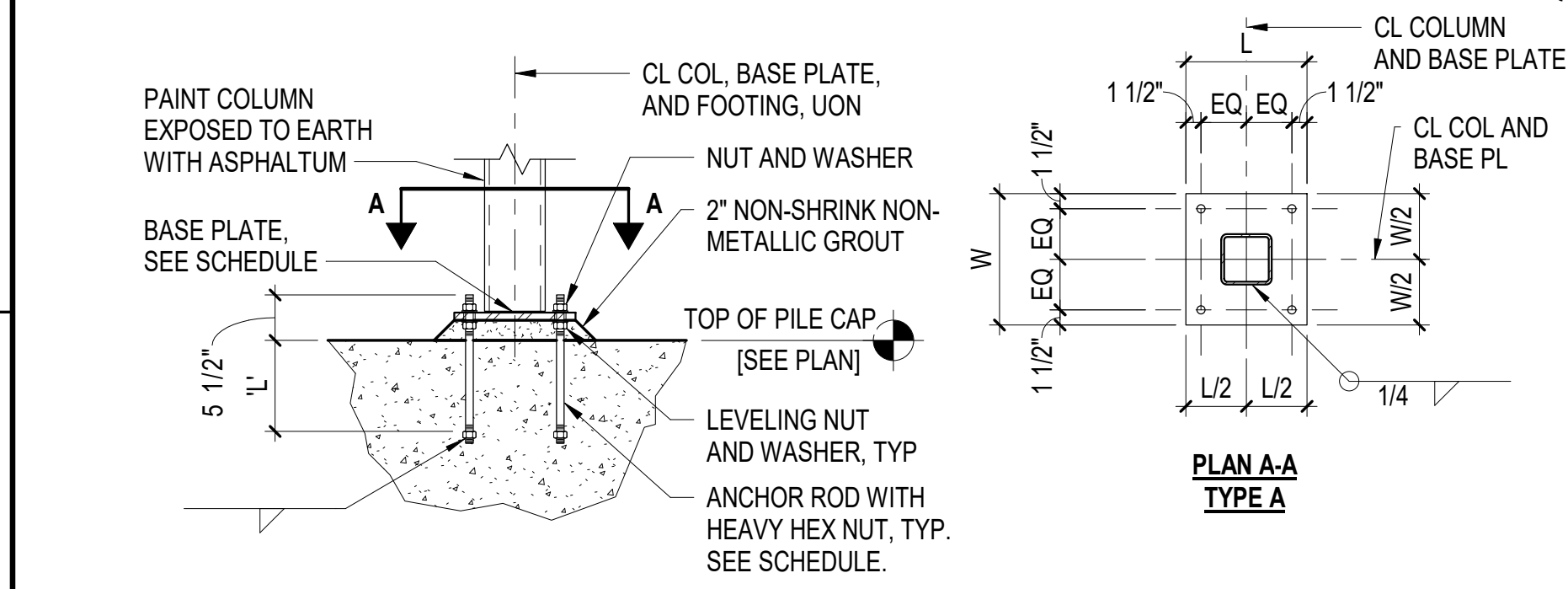
R COMMANDER NAVFAC					
TWITY					
Approved by LtCol Roger Holliday, Director I&E, MCAS New River					
TS/FACILITY TO		DATE		06/14/21	
S	LSP	DRW	BS	CHK	TER
FROM				GFS/LEJ	
BRANCH MANAGER				NBJ	
CHIEF ENGLISH				EJA	
DE PROTECTION				DSN	

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MIDLAND DC CORE
NAVAL STATION - NORFOLK, VA
MCAS NEW RIVER
JACKSONVILLE, NORTH CAROLINA
P-685 MACS-2 AUTOMOTIVE ORGANIZATIONAL SHOP
ENLARGED FOUNDATION SECTIONS AND DETAILS

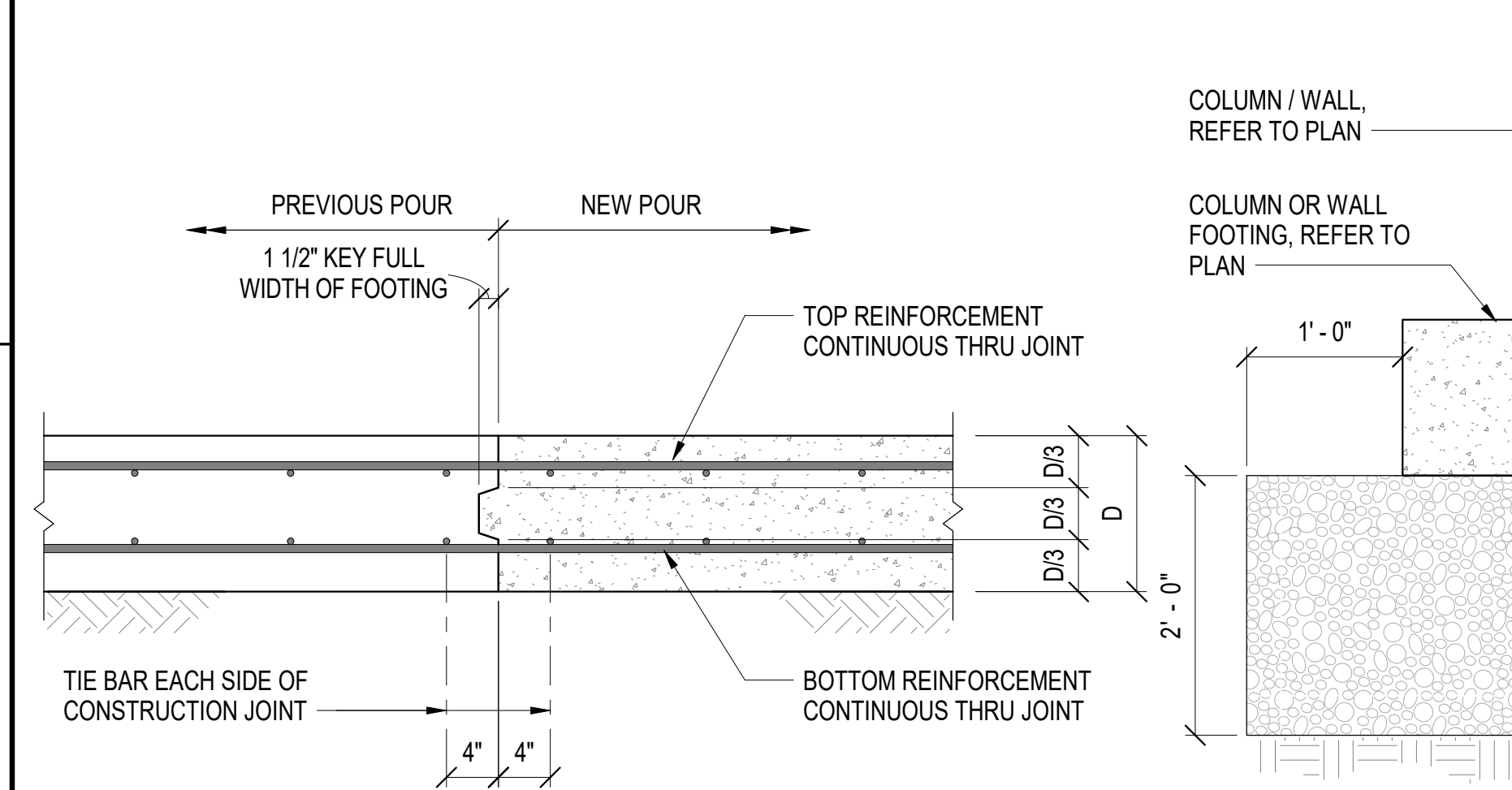
PROJECT NO.:			1672404		
CONSTR. CONTR. NO.					
AVFAC DRAWING NO.					
12842260					
SHEET 33		OF		117	
SB301					

COLUMN BASE PLATE AND ANCHOR ROD SCHEDULE								
COLUMN SIZE	BASE PLATE DIMENSIONS			ANCHOR RODS			PLATE WASHER	NOTES
	WIDTH (W)	LENGTH (L)	THICKNESS (T)	HOLE DIAMETER	DIAMETER	EMBEDMENT		
HSS10X10X1/2	17"	17"	1"	1 5/16"	3/4"	10"	2"x2"x1/4"	TYPE A

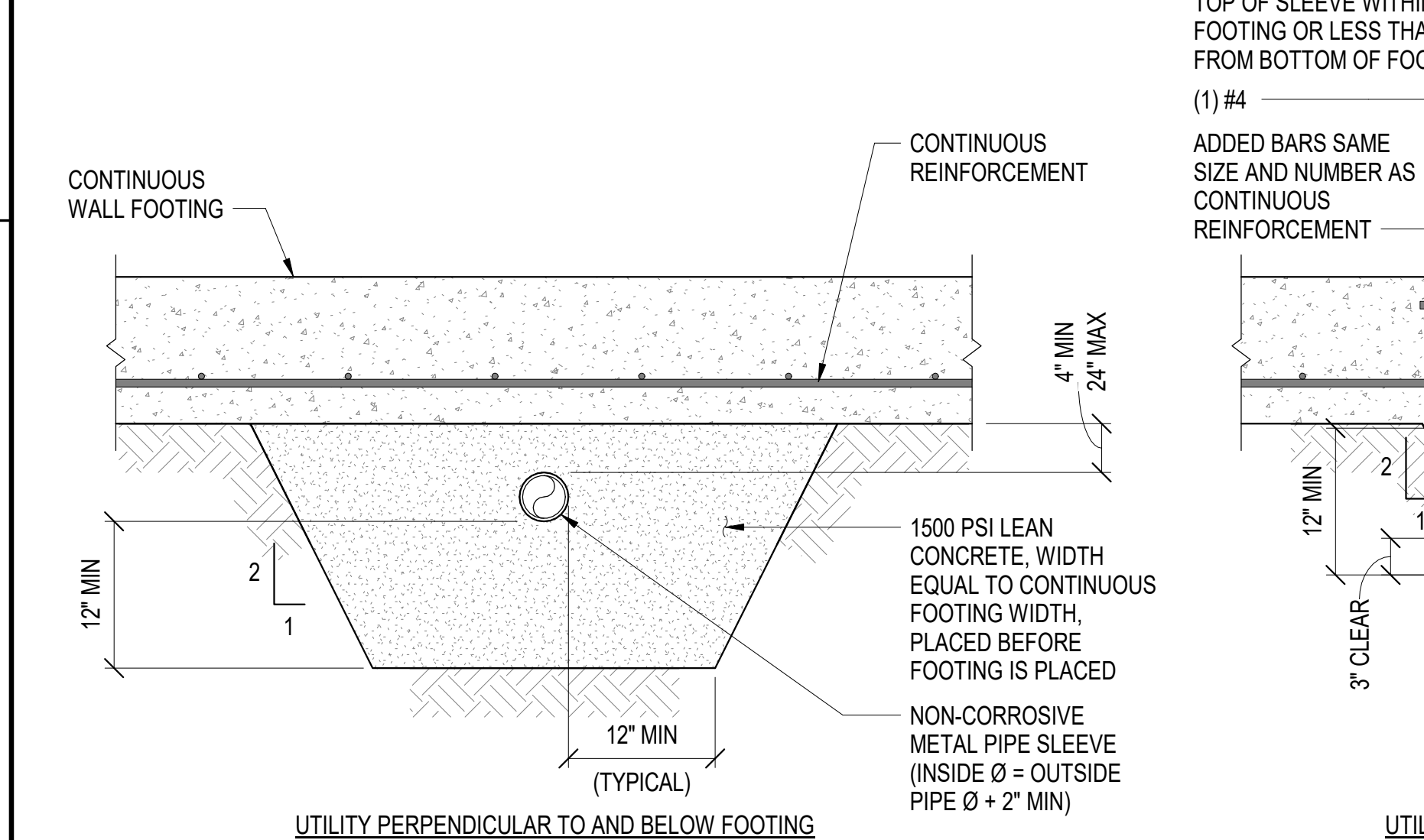
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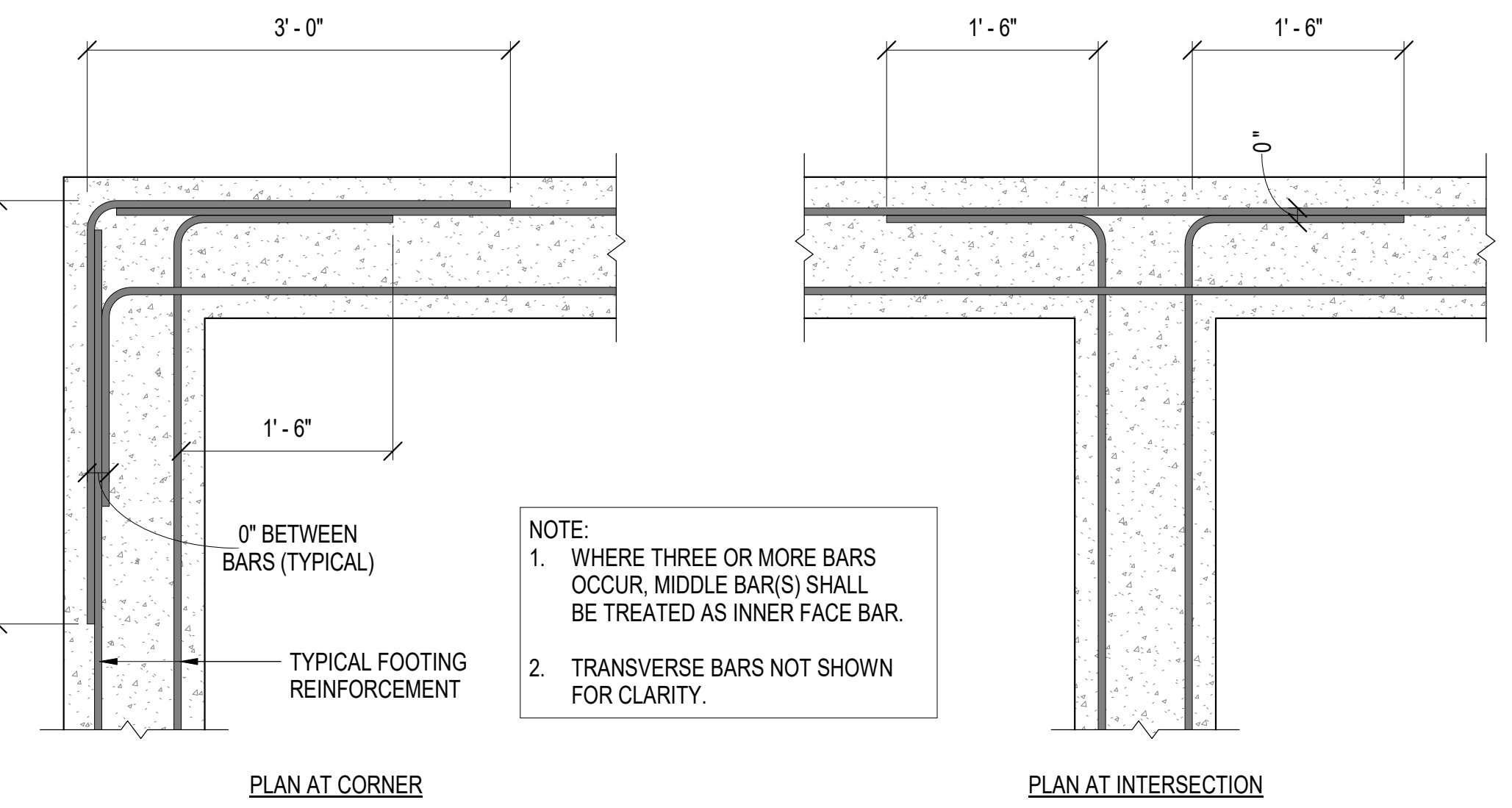
C1 TYPICAL ANCHOR ROD AND BASE PLATE
3/4" = 1'-0"



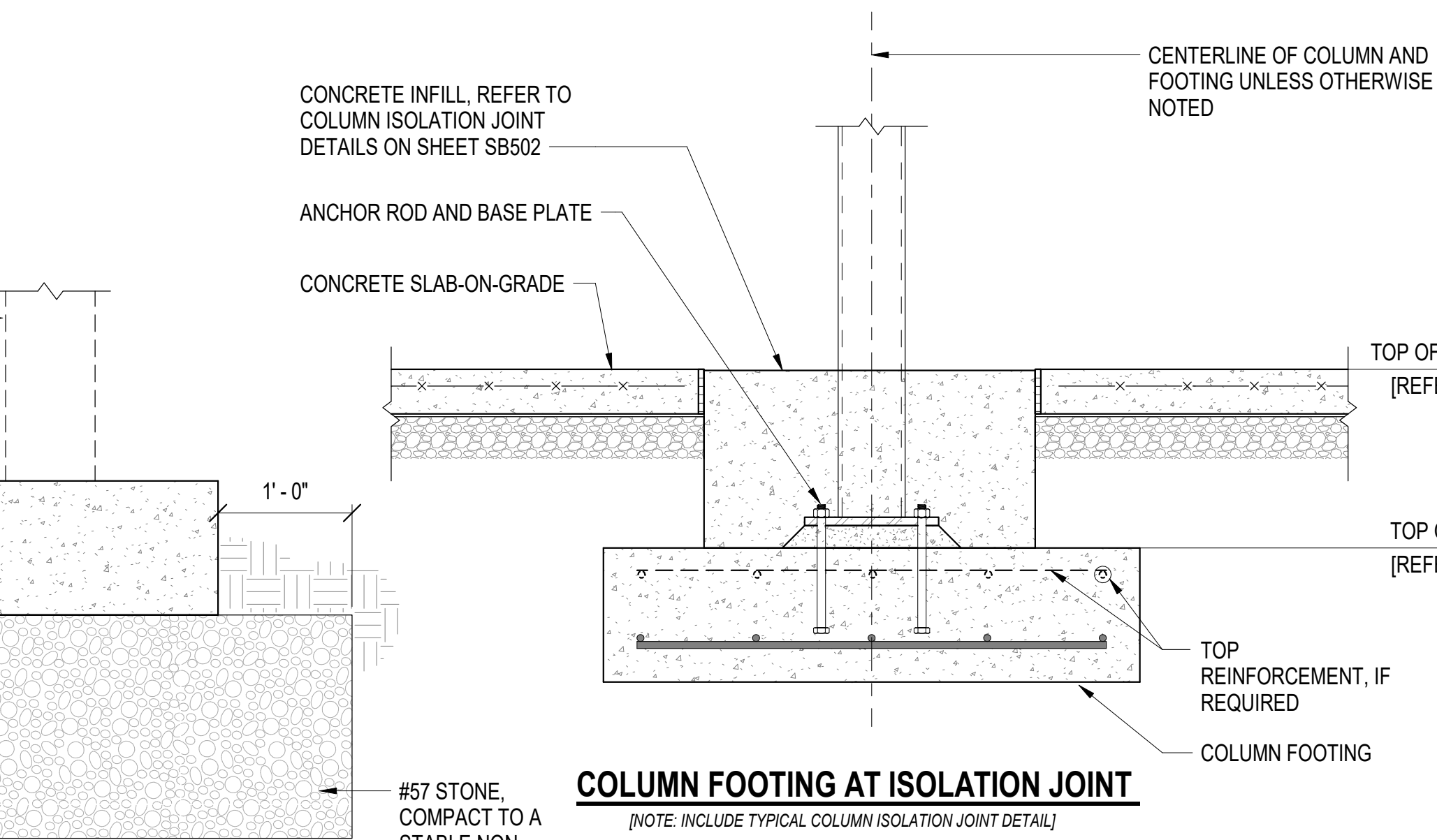
CONTINUOUS FOOTING CONSTRUCTION JOINT



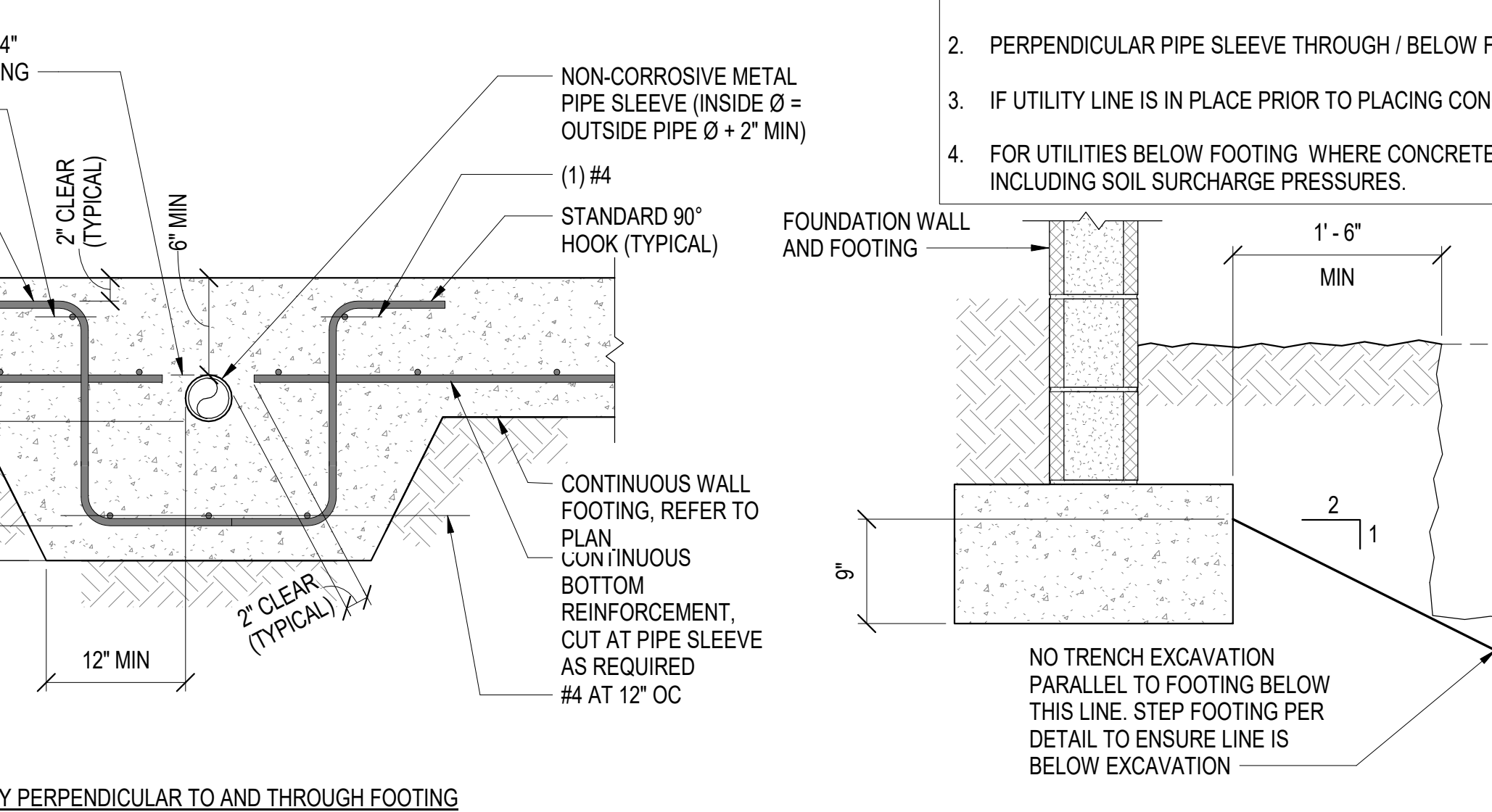
TYPICAL FOOTING DETAILS
NOT TO SCALE



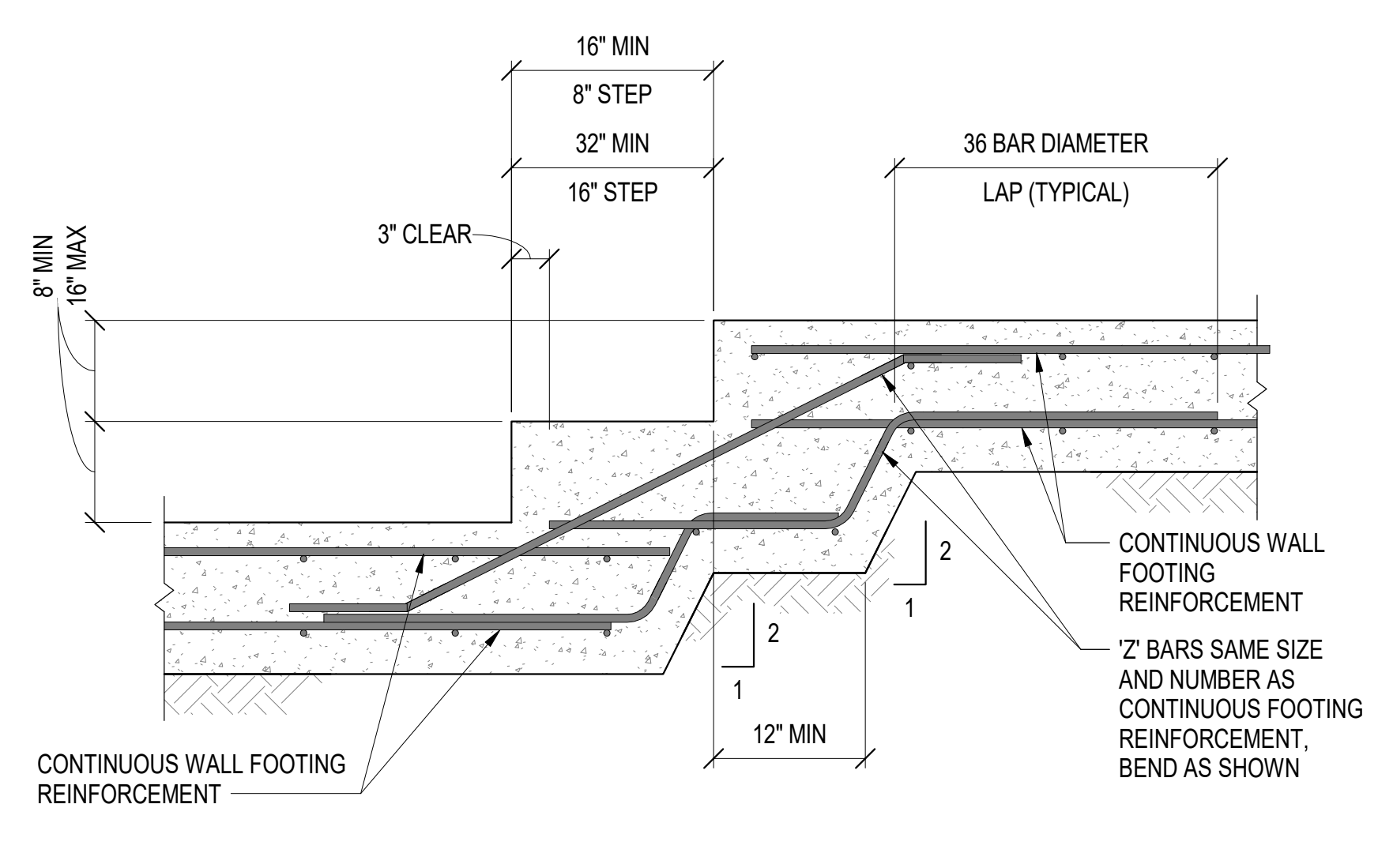
CONTINUOUS FOOTING REINFORCEMENT



COLUMN FOOTING AT ISOLATION JOINT
[NOTE: INCLUDE TYPICAL COLUMN ISOLATION JOINT DETAIL]



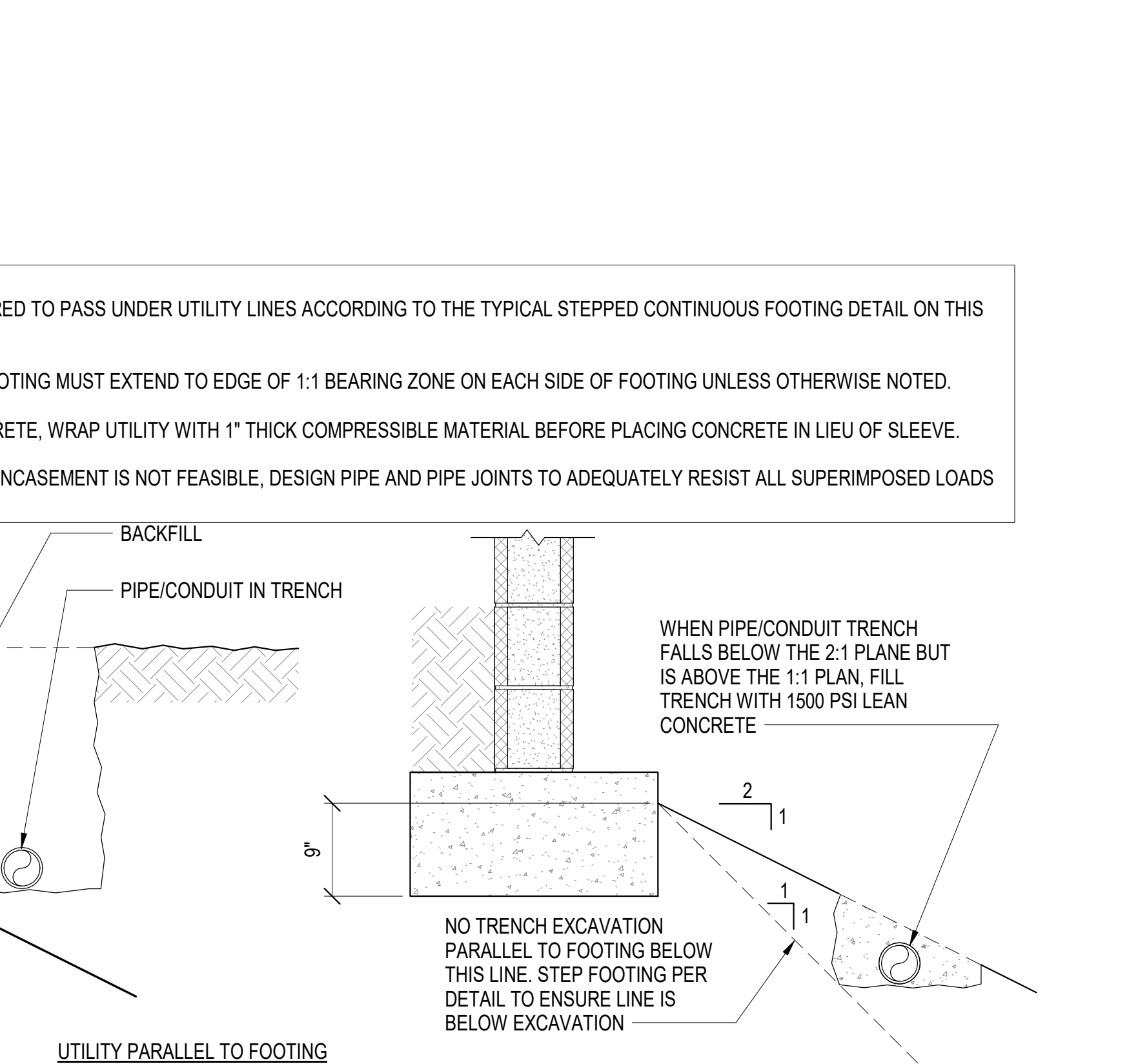
FOUNDATION UNDERCUT DETAIL



STEPPED CONTINUOUS FOOTING (SF)

COLUMN FOOTING SCHEDULE				
MARK	DIMENSIONS		REINFORCING STEEL	
	WIDTH	LENGTH	DEPTH	
CF6.0	6' - 0"	6' - 0"	1' - 4"	(7)-#5 EACH DIRECTION BOTTOM
CF6.0M	6' - 0"	6' - 0"	1' - 4"	(5)-#5 EACH DIRECTION BOTTOM
CF6.0x4.0	4' - 0"	6' - 0"	1' - 4"	(7)-#5 EACH DIRECTION BOTTOM
CF6.5	6' - 6"	6' - 6"	1' - 4"	(8)-#5 EACH DIRECTION BOTTOM
CF7.0	7' - 0"	7' - 0"	1' - 6"	(6)-#6 EACH DIRECTION TOP AND BOTTOM

WALL FOOTING SCHEDULE			
MARK	DIMENSIONS		REINFORCING
	WIDTH	DEPTH	
WF2.5	2' - 6"	1' - 4"	(3) #5 CONTINUOUS w/ #5 AT 12" OC TRANS, TOP AND BOTTOM
WF3.0	3' - 0"	1' - 4"	(3) #5 CONTINUOUS w/ #5 AT 12" OC TRANS, TOP AND BOTTOM
WF4.0	4' - 0"	1' - 4"	(4) #5 CONTINUOUS w/ #5 AT 12" OC TRANS, TOP AND BOTTOM
WF5.0	5' - 0"	1' - 6"	(6) #5 CONTINUOUS w/ #5 AT 12" OC TRANS, TOP AND BOTTOM



WALL FOOTING AT UTILITY LINES

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by LtCol Roger Holliday,
Director I&E, MCAS New River

SATISFACTORY TO DATE 06/14/21

DES LSP DRW BS CHK TER

PMIDM GFS/LEJ

BRANCH MANAGER NBJ

CHIEF ENGINEER EJA

FIRE PROTECTION DSN

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

MILITARY DC CORE

MCAS NEW RIVER

NAVAL STATION - NORFOLK, VA

JACKSONVILLE, NORTH CAROLINA

P-685 MACS-2 AUTOMOTIVE ORGANIZATIONAL SHOP

TYPICAL FOOTING DETAILS

SCALE: AS NOTED

PROJECT NO.: 1672404

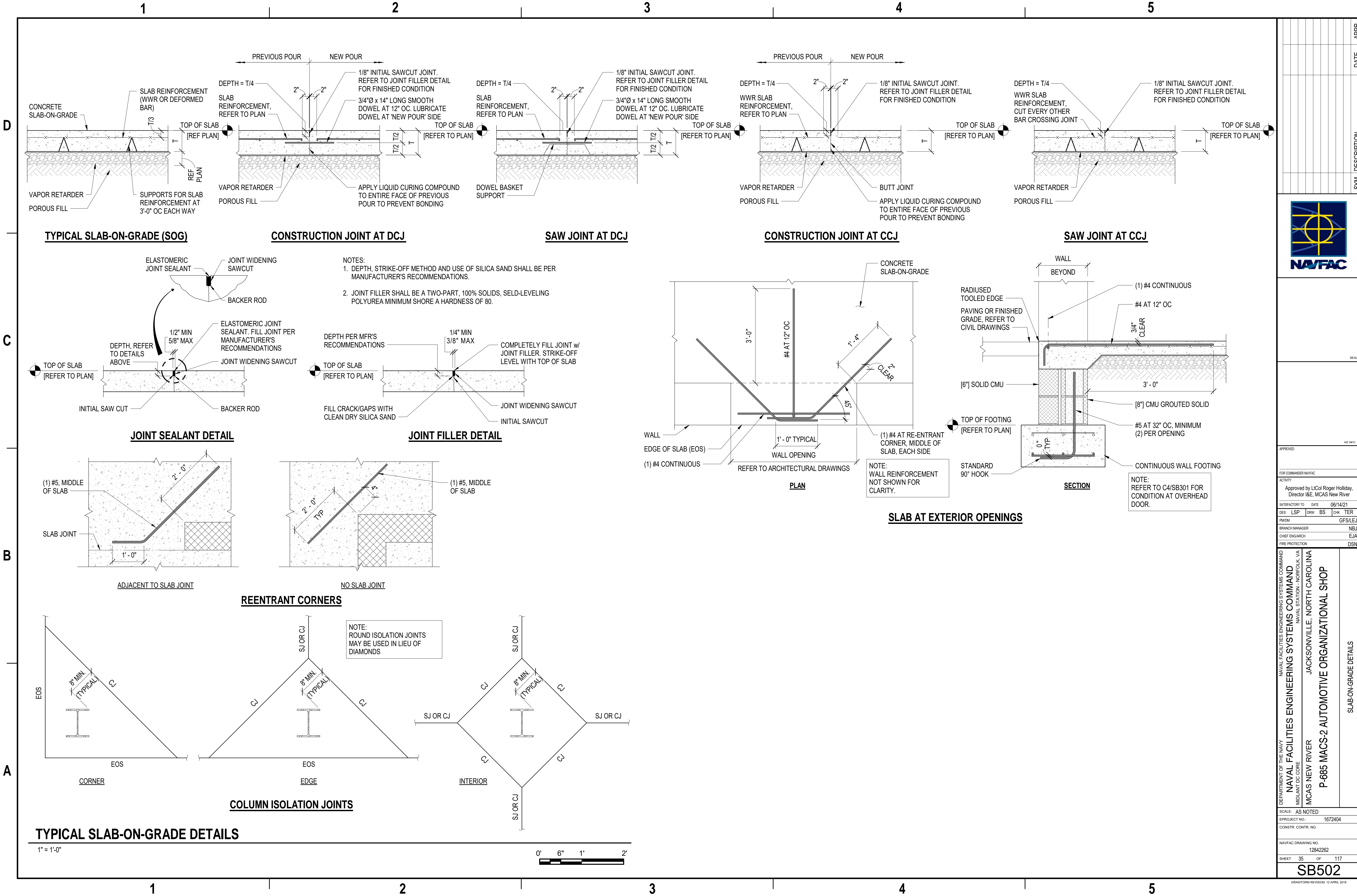
CONSTR. CONTR. NO.

NAVFAC DRAWING NO. 12842261

SHEET 34 OF 117

SB501

DRAWING REVISION: 12 APRIL 2018



APPR
DATE
SYN
DESCRIPTION



SEAL

AVE INFO

FOR COMMANDER NAVFAC
ACTIVITY
Approved by LtCol Roger Holliday, Director I&E, MCAS New River
SATISFACTORY TO DATE 06/14/21
DES LSP DRW BS CHK TER
PMIDM GFS/LEJ
BRANCH MANAGER NBJ
CHIEF ENGINEER EJA
FIRE PROTECTION DSN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
MILITARY DC CORE
MCAS NEW RIVER
JACKSONVILLE, NORTH CAROLINA
P-685 MACS-2 AUTOMOTIVE ORGANIZATIONAL SHOP
SLAB-ON-GRADE DETAILS

SCALE: AS NOTED
PROJECT NO.: 1672404
CONSTR. CONTR. NO.
NAVFAC DRAWING NO. 12842262
SHEET 35 OF 117
SB502

DRAWING REVISION: 12 APRIL 2018

1

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C

B

A

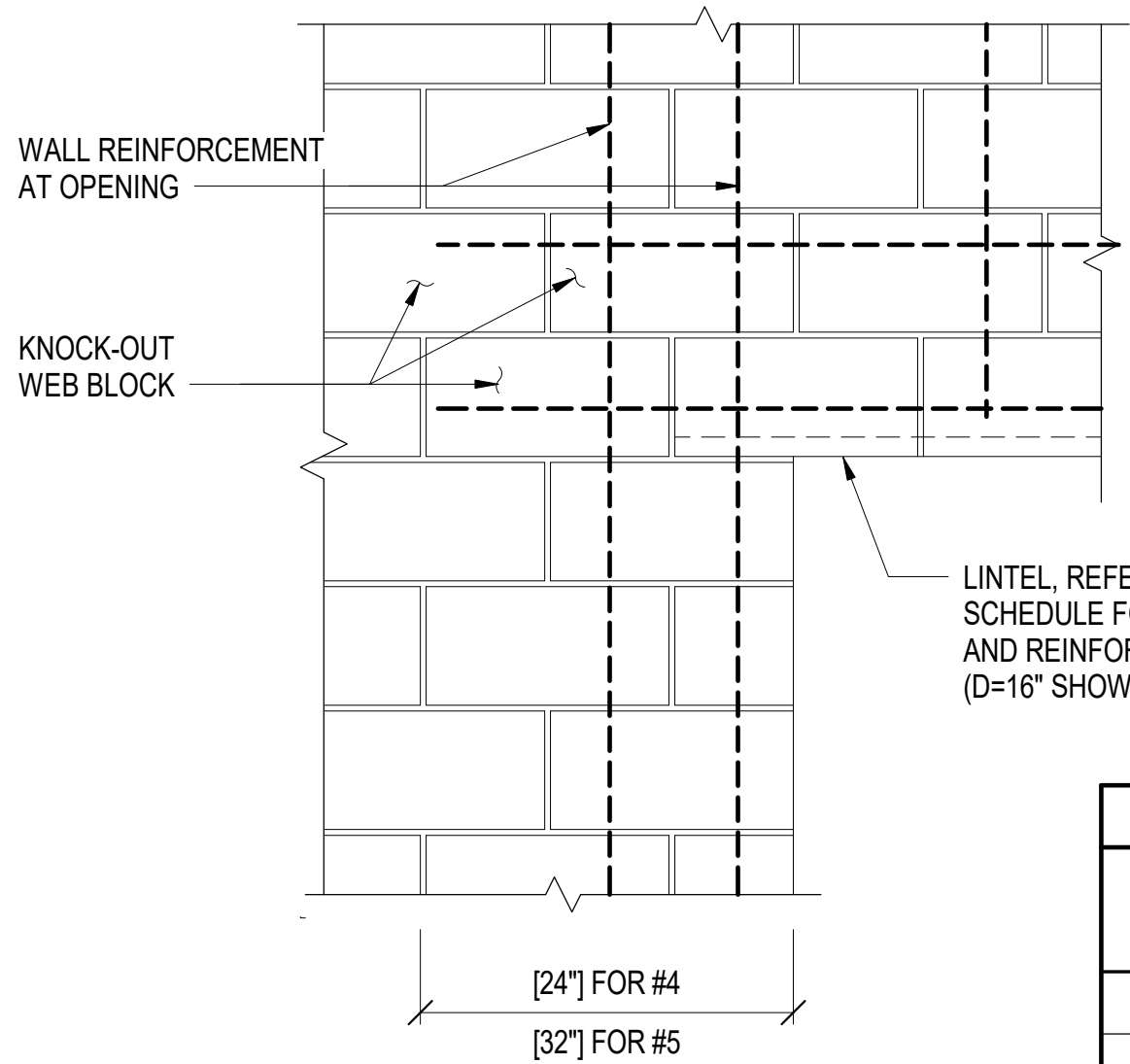
1

2

3

4

5



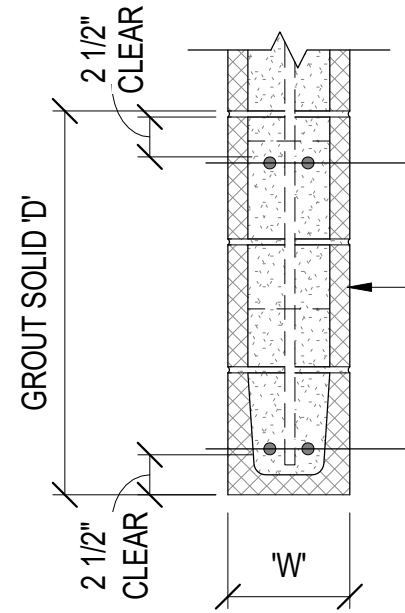
NOT AT CONTROL JOINT

NOTE:
VENEER MASONRY AND
SUPPPORT NOT
SHOWN FOR CLARITY.

BOTTOM OF LINTEL
[REFER TO ARCH]

SECTION ('D' = 8")

CLEAR SPAN	DEPTH 'D'	WIDTH 'W'	REINFORCEMENT	
			BOTTOM	TOP
0' - 3' - 4"	8"	8", 12"	(2) #4	N/A
3' - 5" - 6' - 4"	16"	8", 12"	(2) #4	(2) #4
6' - 5" - 8' - 0"	24"	8", 12"	(2) #5	(2) #5
8' - 1" - 14'-0"	24"	12"	(2) #6	(2) #6



SECTION ('D' > 8")

TOP REINFORCEMENT
IN 8" HIGH KNOCK-OUT
WEB BLOCK AT TOP OF
LINTEL

KNOCK-OUT WEB
BLOCK BETWEEN TOP
AND BOTTOM
COURSES (SLOT
LENGTH HALF DEPTH
MINIMUM)

BOTTOM
REINFORCEMENT IN 8"
HIGH LINTEL BLOCK
FIRST COURSE ABOVE
OPENING

PRECAST SILL, REFER
TO ARCH DWGS

L3x3x1/4 GALV w/ 5/8"Ø
EOPXY ANCHORS AT
32" OC MAX (MIN 3 PER
SILL). EXTEND ANGLE 8"
BEYOND SILL, EA SIDE

VENEER, REFER TO
ARCH DWGS

WINDOW, REFER
TO ARCH DWGS

8" BOND BEAM WITH (2) #4
CONTINUOUS BOTTOM.
REFER TO BOND BEAM
NOTES BELOW.

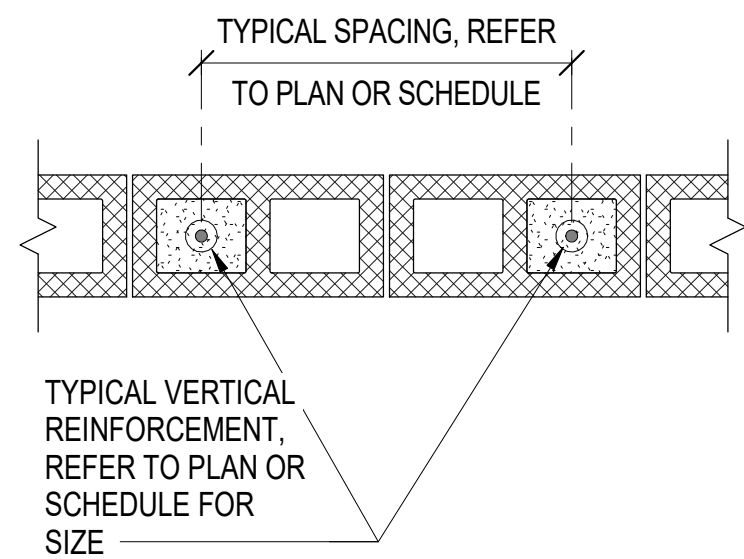
CMU WALL,
REFFER TO PLAN

WINDOW SILL SUPPORT DETAIL

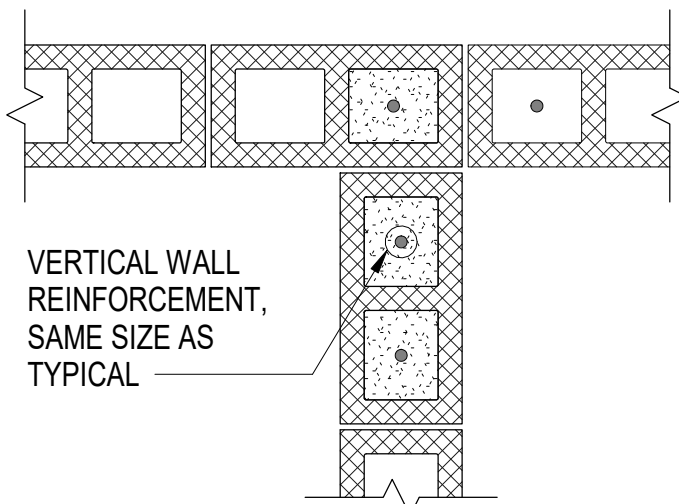
NOT TO SCALE

TYPICAL CONCRETE MASONRY BOND BEAM LINTEL

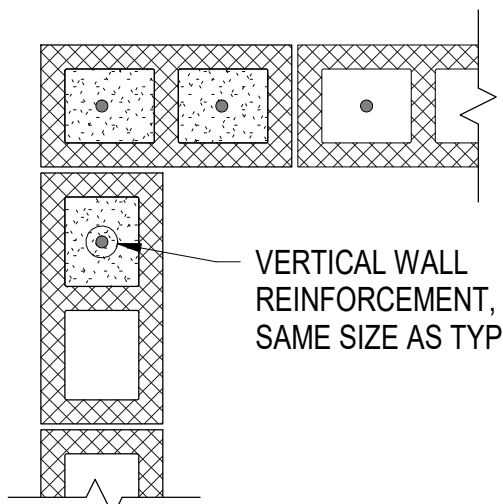
NOT TO SCALE



TYPICAL WALL SEGMENT



INTERSECTION



CORNER

MASONRY LAP SPICE SCHEDULE

BAR SIZE	8" CMU		12" CMU	
	BAR LOCATION		BAR LOCATION	
	MIDDLE OF CELL	OTHER	MIDDLE OF CELL	OTHER
#4	13"	34"	12"	34"
#5	20"	45"	13"	45"
#6	37"	54"	24"	54"

VERTICAL REINFORCING NOTES:

- IN ADDITION TO THE SPACING INDICATED, PLACE ONE BAR IN EACH OF THREE CELLS AT CORNERS. ONE BAR EACH SIDE OF CONTROL JOINTS AND TWO BARS EACH SIDE OF OPENINGS. USE SAME BAR SIZE AS VERTICAL REINFORCING IN WALL.
- VERTICAL REINFORCEMENT MUST BE CONTINUOUS FOR FULL HEIGHT OF WALL. WHERE SPLICES ARE REQUIRED, PROVIDE SPLICES IN ACCORDANCE WITH LAP SPICE SCHEDULE.
- PROVIDE FOUNDATION DOWEL OF THE SAME SIZE FOR EACH VERTICAL REINFORCING BAR. CAST DOWELS INTO SUPPORTING CONCRETE. LENGTH OF DOWEL EXTENDING INTO WALL MUST BE A MINIMUM OF 2" GREATER THAN LAP SPICE LENGTH SPECIFIED IN SCHEDULE.

CONTROL JOINT NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR JOINTS IN MASONRY VENEER AND INTERIOR NON-LOAD BEARING CMU WALLS. WHEN NOT SPECIFICALLY DIMENSIONED OR LOCATED, PROVIDE CONTROL JOINTS AT A MAXIMUM SPACING OF 1.5 TIMES THE WALL HEIGHT OR 25 FEET, WHICHEVER IS LESS. UON. THE MAXIMUM SPACING MAY OCCUR AROUND A CORNER, BUT ONE SIDE OR THE OTHER MUST BE LESS THAN OR EQUAL TO 10 FEET TO THE JOINT.

BOND BEAM NOTES:

- BOND BEAMS ARE 8-INCHES DEEP UNLESS NOTED OTHERWISE.
- REINFORCE BOND BEAMS WITH 2-#4 CONTINUOUS BOTTOM BARS UNLESS NOTED OTHERWISE.
- GROUT BOND BEAMS SOLID.
- LOCATE CONTINUOUS BOND BEAMS AT TOP OF WALLS AND WHERE INDICATED ON PLAN AND IN SECTIONS.
- AT LOCATIONS WHERE CONTINUOUS BOND BEAMS DO NOT OCCUR BELOW OPENINGS, LOCATE BOND BEAMS BELOW MASONRY OPENINGS AND EXTEND A MINIMUM OF 24" BEYOND EACH SIDE OF OPENING.
- DISCONTINUE BOND BEAMS AT VERTICAL CONTROL JOINTS IN CMU WALLS, EXCEPT AT TOP OF WALL.

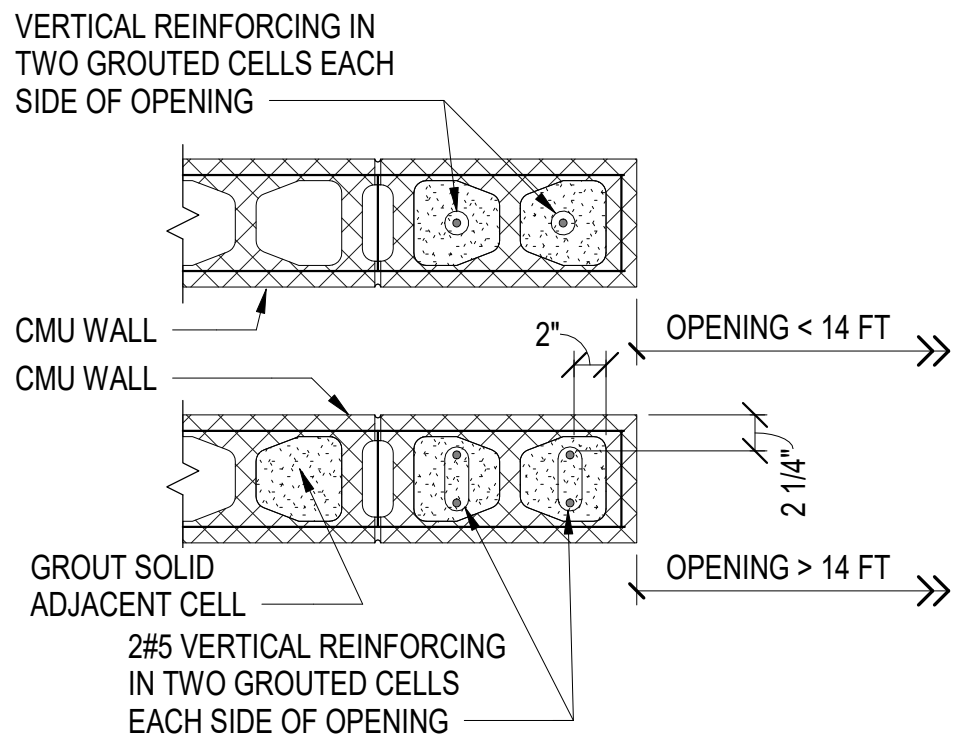
NOTE:
CMU VENEER, METAL WALL PANELS AND OTHER FINISHES ARE NOT SHOWN IN
DETAILS. REFER TO ARCHITECTURAL DRAWINGS.

MASONRY WALL REINFORCING SCHEDULE

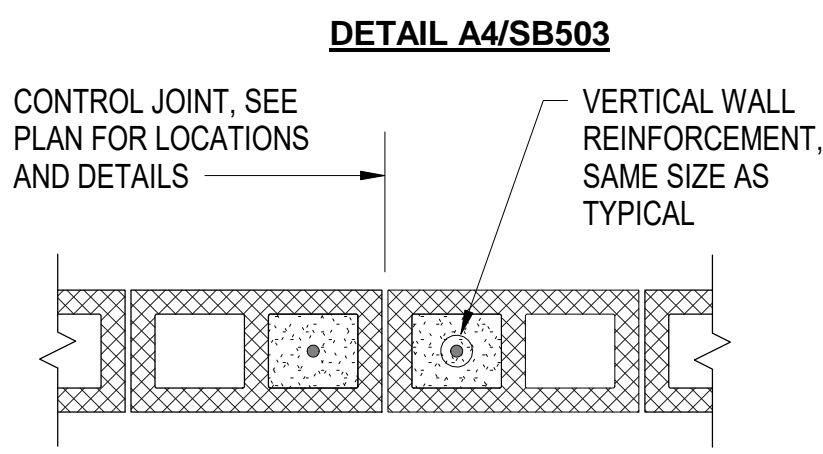
WALL MARK	NOMINAL BLOCK SIZE	REINFORCING	
		VERTICAL	BOND BEAM
W1	8"	#6 AT 32" OC, MOW	(2) #5 TOP AND BOTT
W2	12"	#6 AT 24" OC, MOW	(2) #5 TOP AND BOTT

NOTES:

- UNLESS OTHERWISE NOTED, PLACE CONTINUOUS 8" HIGH REINFORCED BOND BEAMS AT JOIST AND DECK BEARING ELEVATIONS.
- BOND BEAM REINFORCING SHALL BE CONTINUOUS THROUGH MASONRY CONTROL JOINTS AT JOIST AND DECK BEARING ELEVATIONS ONLY. AT ALL OTHER ELEVATIONS (INTERMEDIATE HEIGHTS, TOPS OF PARTITION WALLS, ETC), STOP REINFORCING 2" EACH SIDE OF JOINT.
- UNLESS OTHERWISE NOTED, VERTICAL WALL REINFORCING MUST HAVE STANDARD 90° HOOK INTO BOND BEAM AT TOP OF WALL.



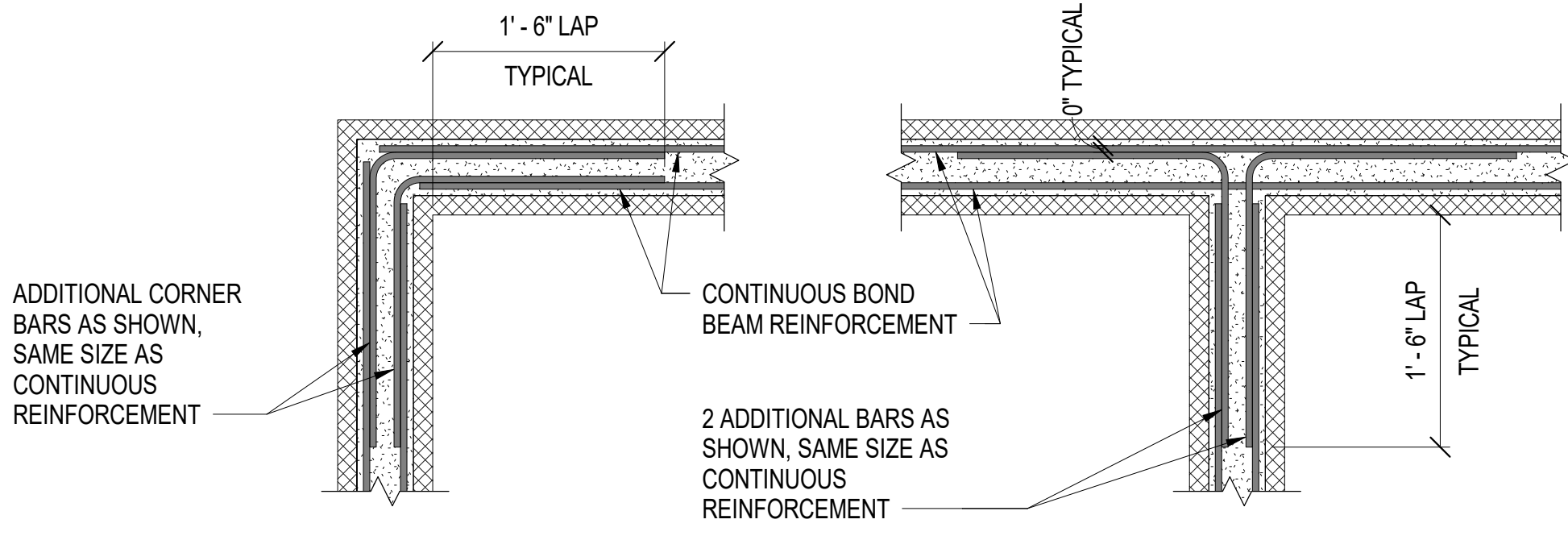
WALL OPENING



CONTROL JOINT

TYPICAL CONCRETE MASONRY WALL VERTICAL REINFORCEMENT

NOT TO SCALE



PLAN AT CORNER

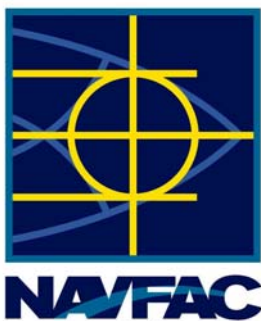
PLAN AT INTERSECTION

TYPICAL CONCRETE MASONRY BOND BEAM REINFORCEMENT

NOT TO SCALE

DATE

SYN DESCRIPTION



SEAL

AVE INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY

Approved by LtCol Roger Holliday,
Director I&E, MCAS New River

SATISFACTORY TO DATE 06/14/21

DES LSP DRW BS CHK TER

PMIDM GFS/LEJ

BRANCH MANAGER NBJ

CHIEF ENDORSE EJA

FIRE PROTECTION DSN

DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND

NAVAL STATION - NORFOLK, VA

MCAS NEW RIVER

JACKSONVILLE, NORTH CAROLINA

P-685 MACS-2 AUTOMOTIVE ORGANIZATIONAL SHOP

MASONRY DETAILS

SCALE: AS NOTED

PROJECT NO.: 1672404

CONSTR. CONTR. NO.

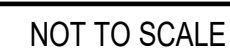
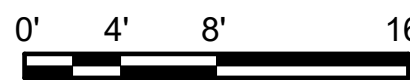
NAVFAC DRAWING NO.

12842263

SHEET 36 OF 117

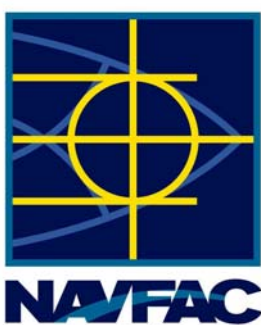
SB503

DRAWING REVISION: 12 APRIL 2018



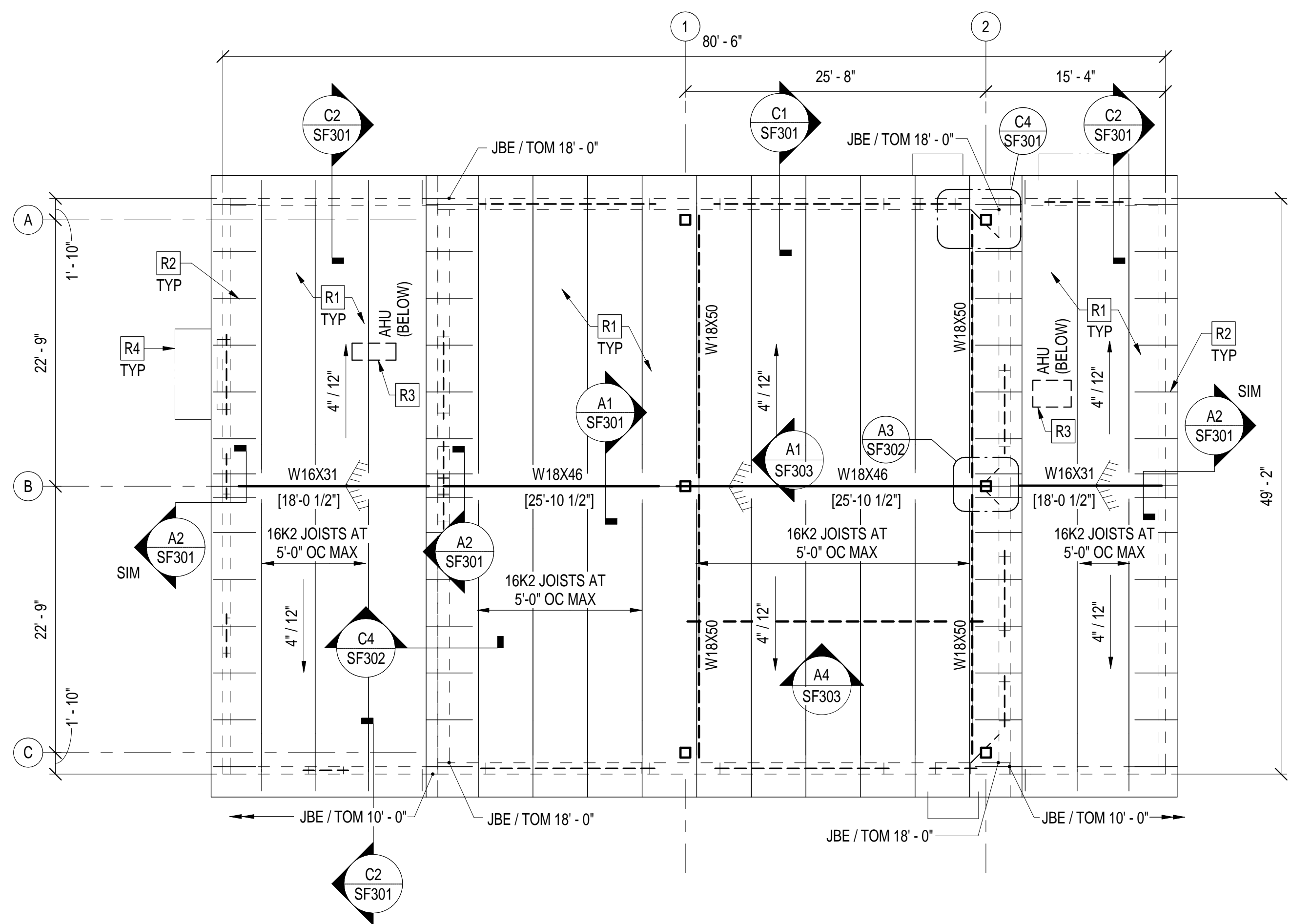
ROOF FRAMING GENERAL NOTES

1. REFER TO S-001 AND S-002 FOR GENERAL NOTES AND PLAN LEGEND AND SF501 FOR MISCELLANEOUS FRAMING DETAILS.
2. REFER TO FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
3. ALL ELEVATIONS ARE BASED ON A FINISHED FLOOR ELEVATION OF 0'-0". REFER TO CIVIL DRAWINGS FOR ACTUAL ELEVATION.
4. ROOF FRAMING CONSISTS OF STEEL JOIST SUPPORTING GALVANIZED 1-1/2" DEEP, 20 GAUGE, TYPE B WIDE-RIB STEEL ROOF DECK, UNLESS OTHERWISE NOTED.
5. UNLESS OTHERWISE NOTED ON PLAN, ROOF JOISTS SHALL BE EQUALLY SPACED NOT TO EXCEED 5'-0" OC TO SUPPORT ROOF DECK.
6. ALL PERMANENT BRIDGING AND BRACING SHALL BE DESIGNED BY JOIST MANUFACTURER.
7. UNLESS OTHERWISE NOTED, LINTELS FOR BEARING WALL ARE SHOWN THUS - - - ON PLAN. FOR LINTEL SCHEDULE, REFER TO SHEET SB503. NOTE: REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ALL WALL OPENING LOCATIONS.



ROOF FRAMING KEY NOTES

- R1 1.50-INCH DEEP X 20 GAUGE STEEL ROOF DECK
- R2 HSS OUTLOOKER, REFER TO DETAIL ON SHEET SF501.
- R3 OUTLINE OF MECHANICAL UNIT. COORDINATE EXACT LOCATION OF UNIT AND ROOF OPENINGS WITH MECHANICAL DRAWINGS. MAXIMUM AHU WEIGHT = 30 POUNDS. REFER TO DETAIL C4/SF501 "CONCENTRATED LOADS ON JOISTS".
- R4 OUTLINE OF CANOPY. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ROOF PLAN. COORDINATE DETAILS WITH SECTION A2/AE530. FOR CONNECTION TO CMU, REFER TO "CANOPY CONNECTION DETAIL" ON SHEET SF501.

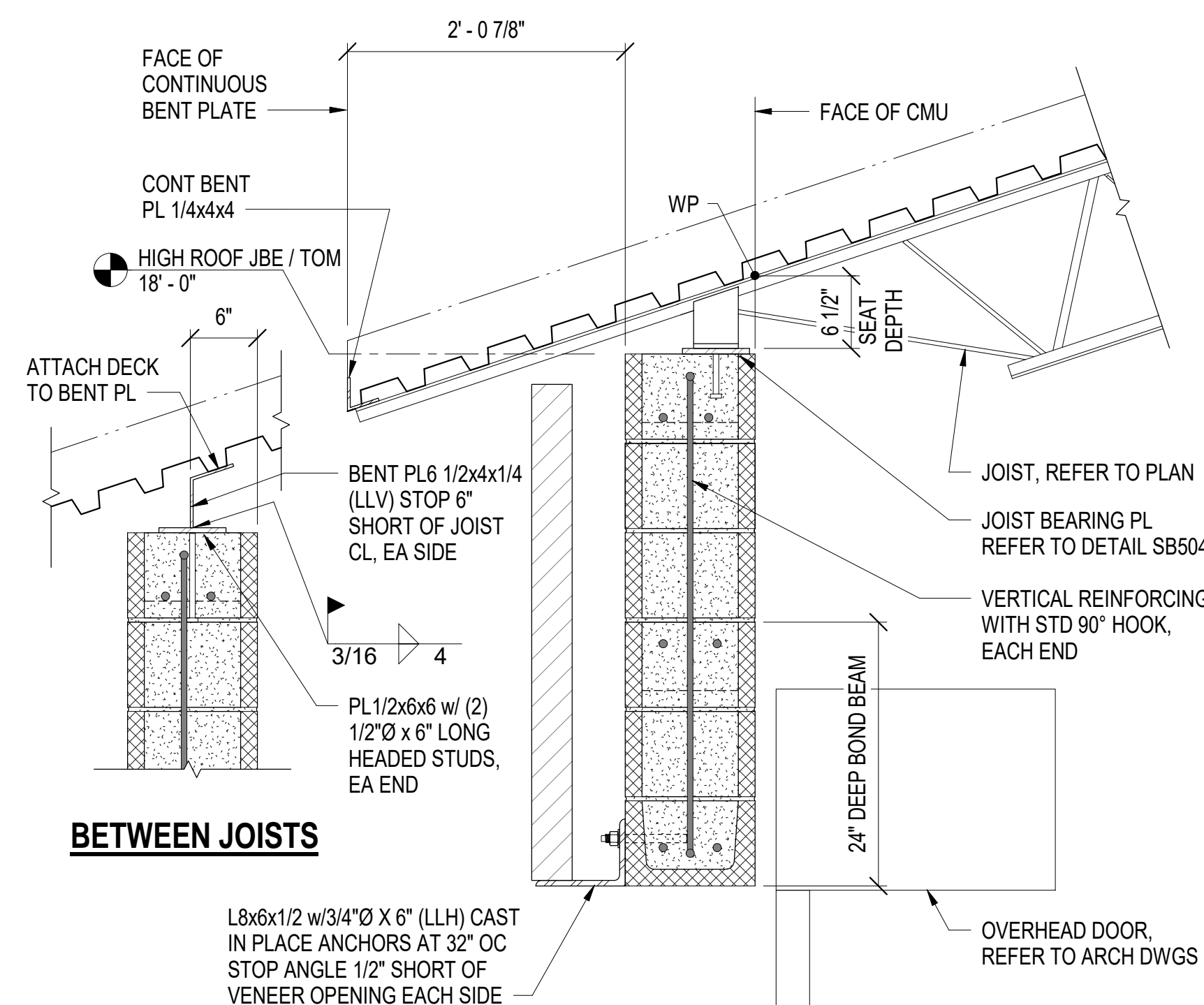


FRAMING PLAN - ROOF

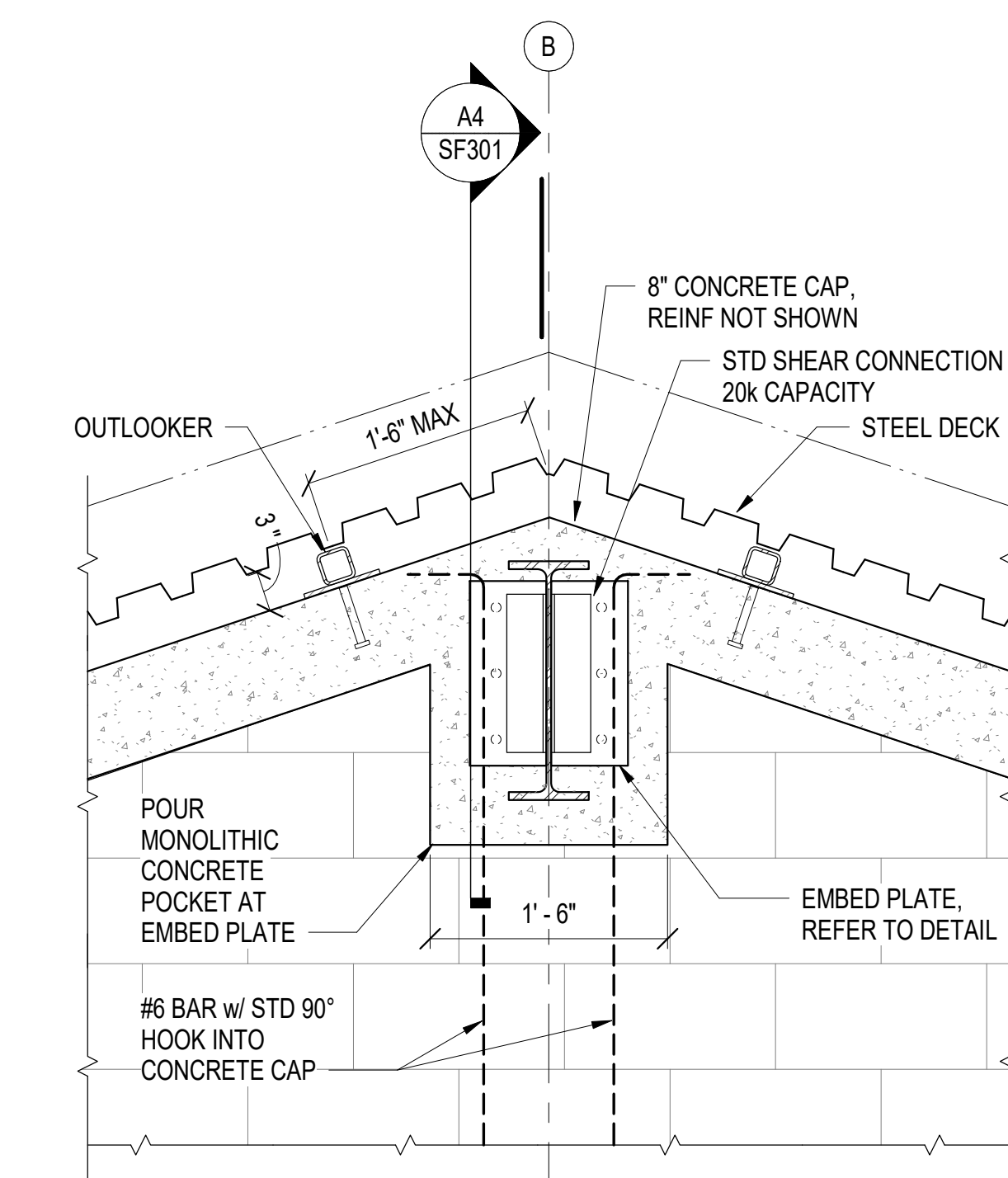
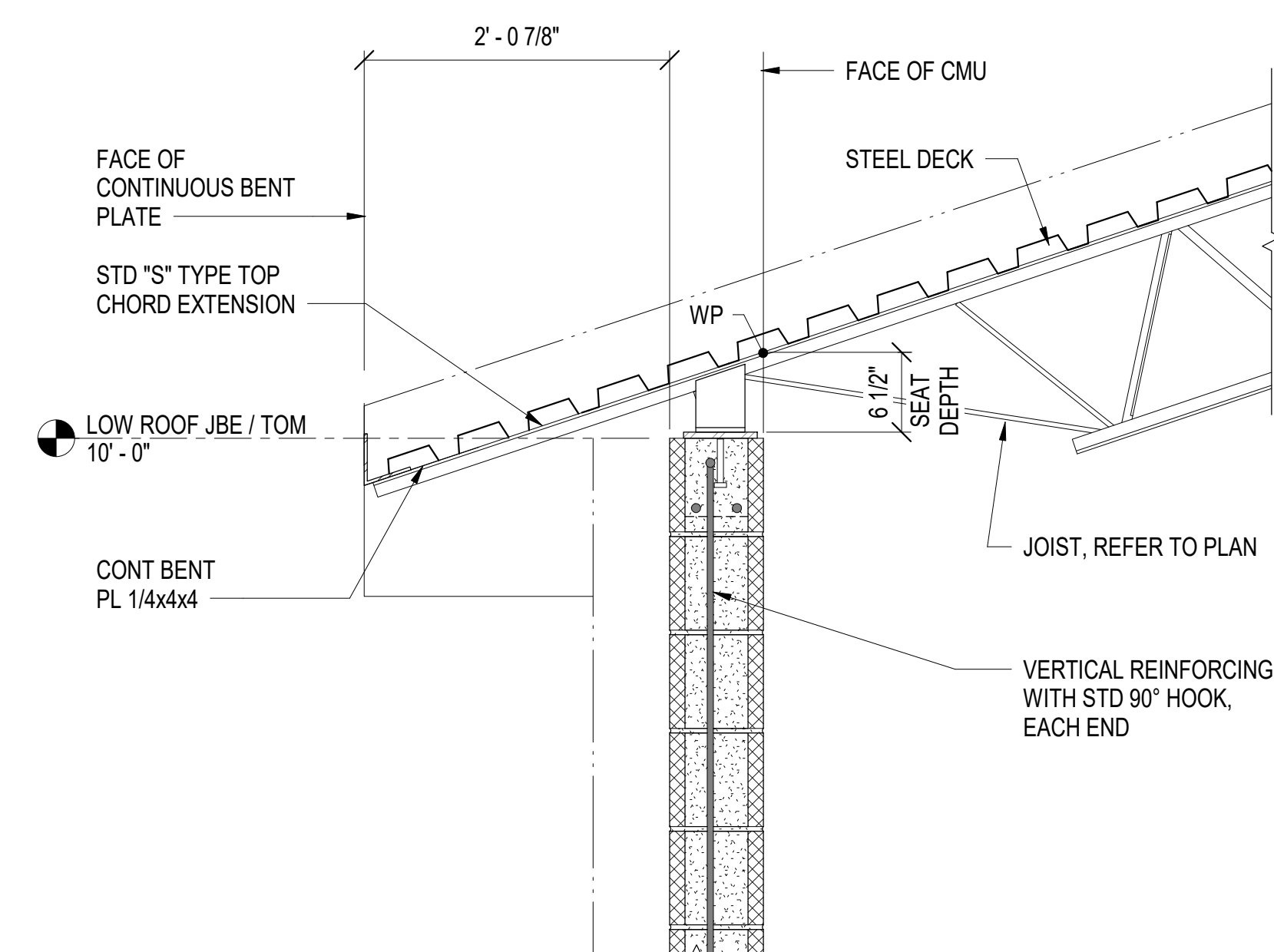
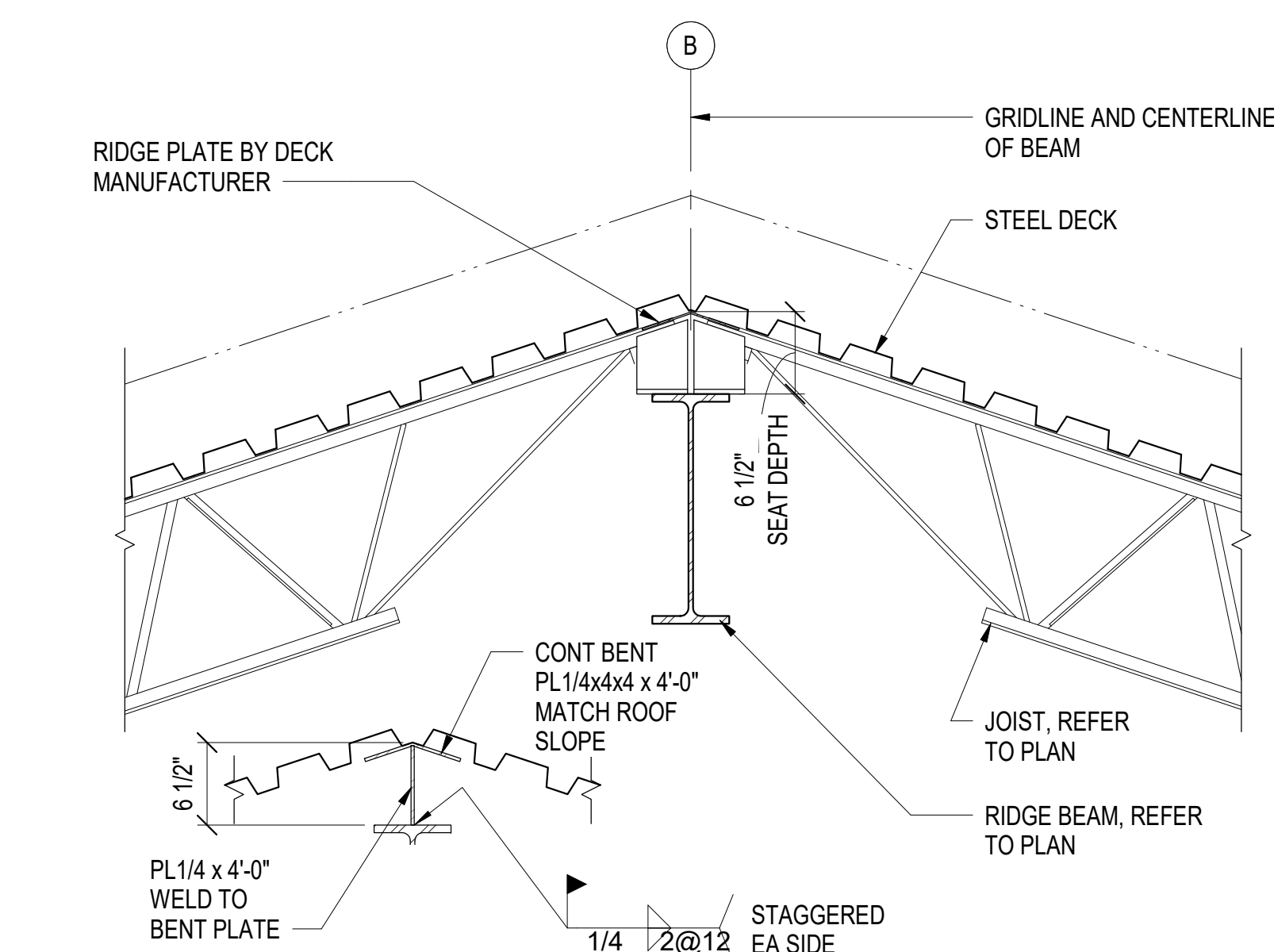
$$1/8'' = 1'-0''$$



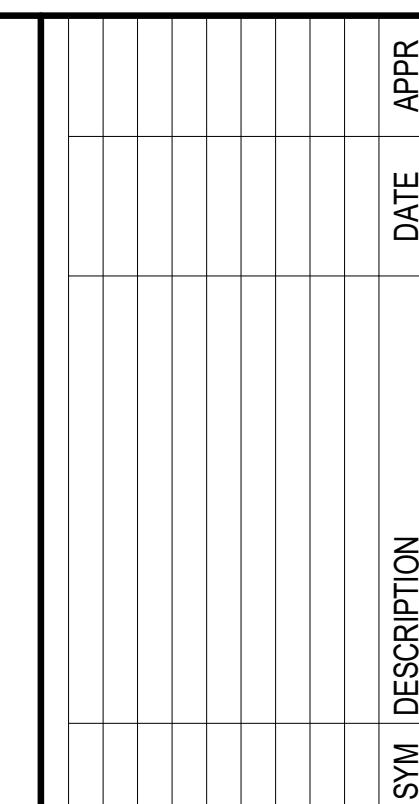
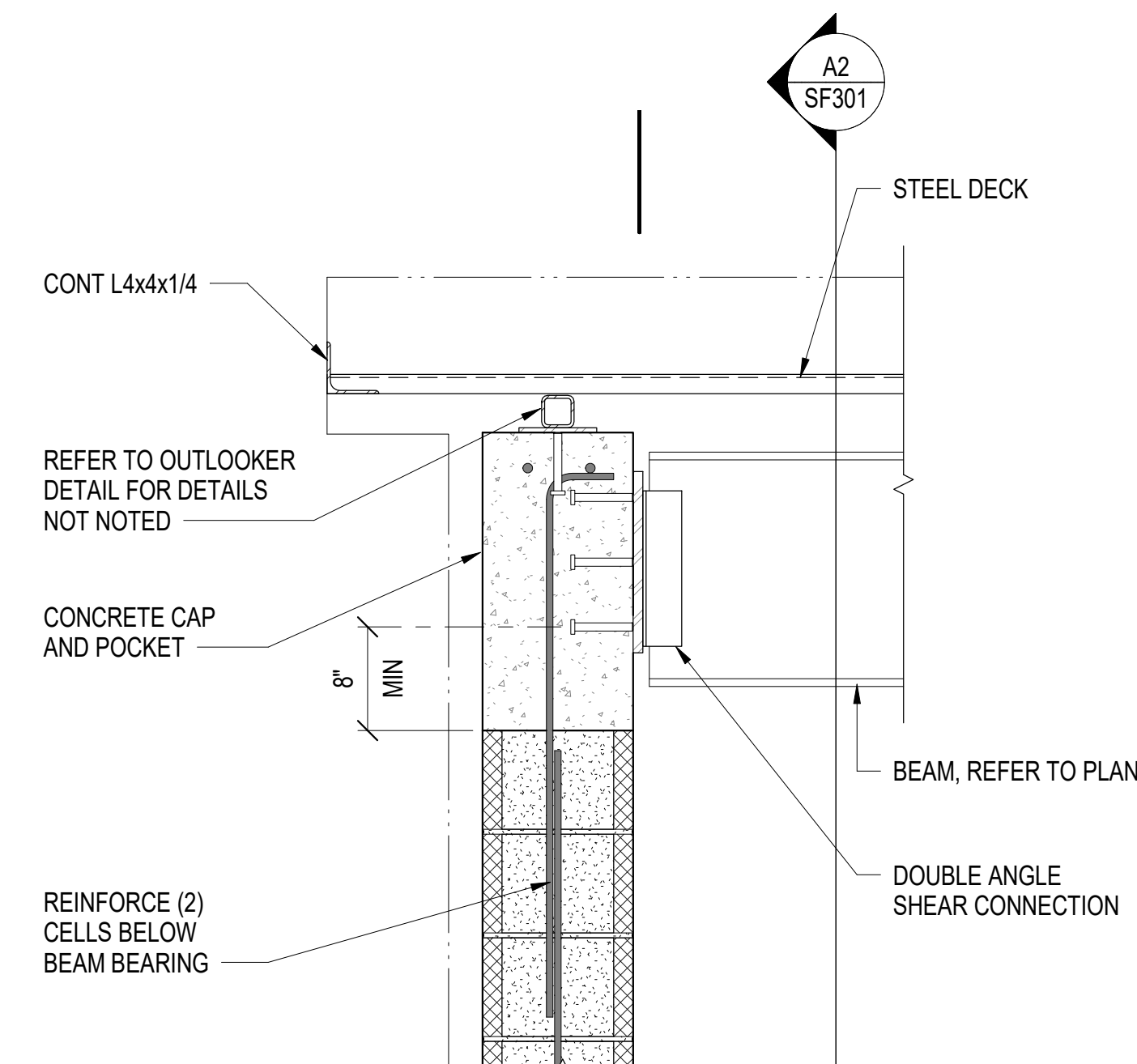
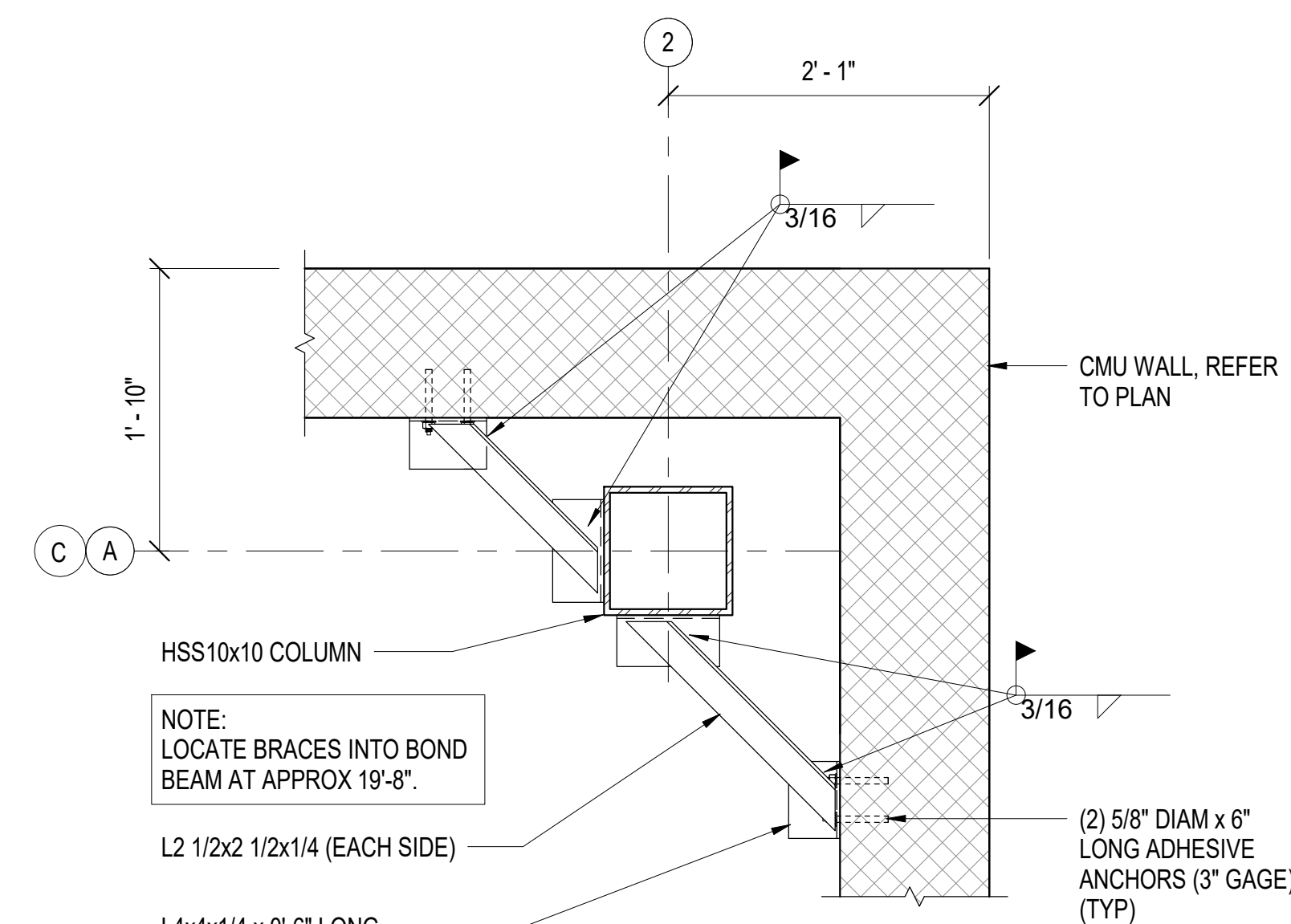

C1 SECTION



A1 **SECTION**



EMBED PLATE DETAIL



						A/E INFO	
APPROVED							
FOR COMMANDER NAVFAC							
ACTIVITY							
Approved by LICol Roger Holliday, Director I&E, MCAS New River							
SATISFACTORY TO				DATE		06/14/21	
DES	LSP	DRW	BS	CHK	TER		
PM/MD						GFS/LEJ	
BRANCH MANAGER						NBJ	
CHIEF ENGINEER						EJA	
CIRC PROTECTION						DSN	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL STATION - NORFOLK, VA
IMMEDIATE DC CORE
JACKSONVILLE, NORTH CAROLINA
P-685 MACS-2 AUTOMOTIVE ORGANIZATIONAL SHOP
ENLARGED FRAMING SECTIONS AND DETAILS

SCALE: AS NOTED		
EPROJECT NO.:		1672404
CONSTR. CONTR. NO.		
NAVFAC DRAWING NO.		
12842266		
SHEET	39	OF 117
SF301		

D

C

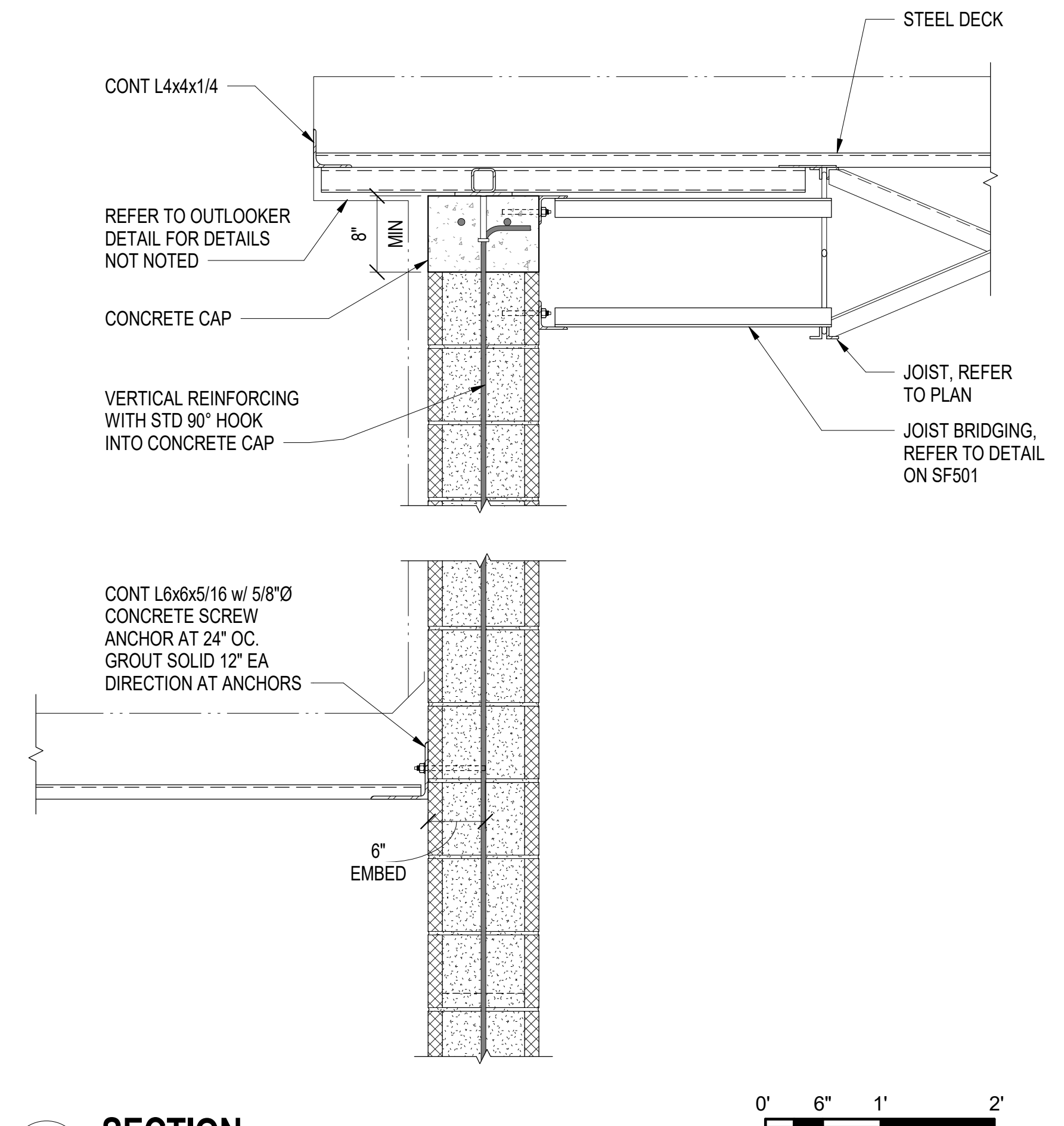
B

A

ITEM	FIGURE	OVERALL TOLERANCE	MAXIMUM RATE OF CHANGE
CRANE SPAN (L) MEASURED AT CRANE WHEEL CONTACT SURFACE	<p>Diagram illustrating the measurement of crane span (L) at the crane wheel contact surface. The span is measured between support points, typically (TYP). The maximum span is $MAX L = L + A$, the minimum span is $MIN L = L - A$, and the nominal span is $NOMINAL SPAN L$. The centerline of the web (CL WEB) is also indicated.</p>	$A = 3/16"$	$1/4" \text{ IN } 20'-0"$
STRAIGHTNESS (B)	<p>Diagram illustrating the straightness of the crane span. The centerline of the web (CL WEB) is shown relative to the theoretical centerline (THEORETICAL CL). The tolerance is $B = 3/8"$.</p>	$B = 3/8"$	$1/4" \text{ IN } 20'-0"$
ELEVATION (C)	<p>Diagram illustrating the elevation of the crane span. The top of the beam is shown relative to the theoretical height. The tolerance is $C = 3/8"$. Support points are typically (TYP).</p>	$C = 3/8"$	$1/4" \text{ IN } 20'-0"$
TOP RUNNING TRANSVERSE RAIL TO RAIL ELEVATION (D)	<p>Diagram illustrating the top running transverse rail to rail elevation. The span is $SPAN L$. The tolerance is $D = \pm 3/16"$.</p>	$D = \pm 3/16"$	$1/4" \text{ IN } 20'-0"$

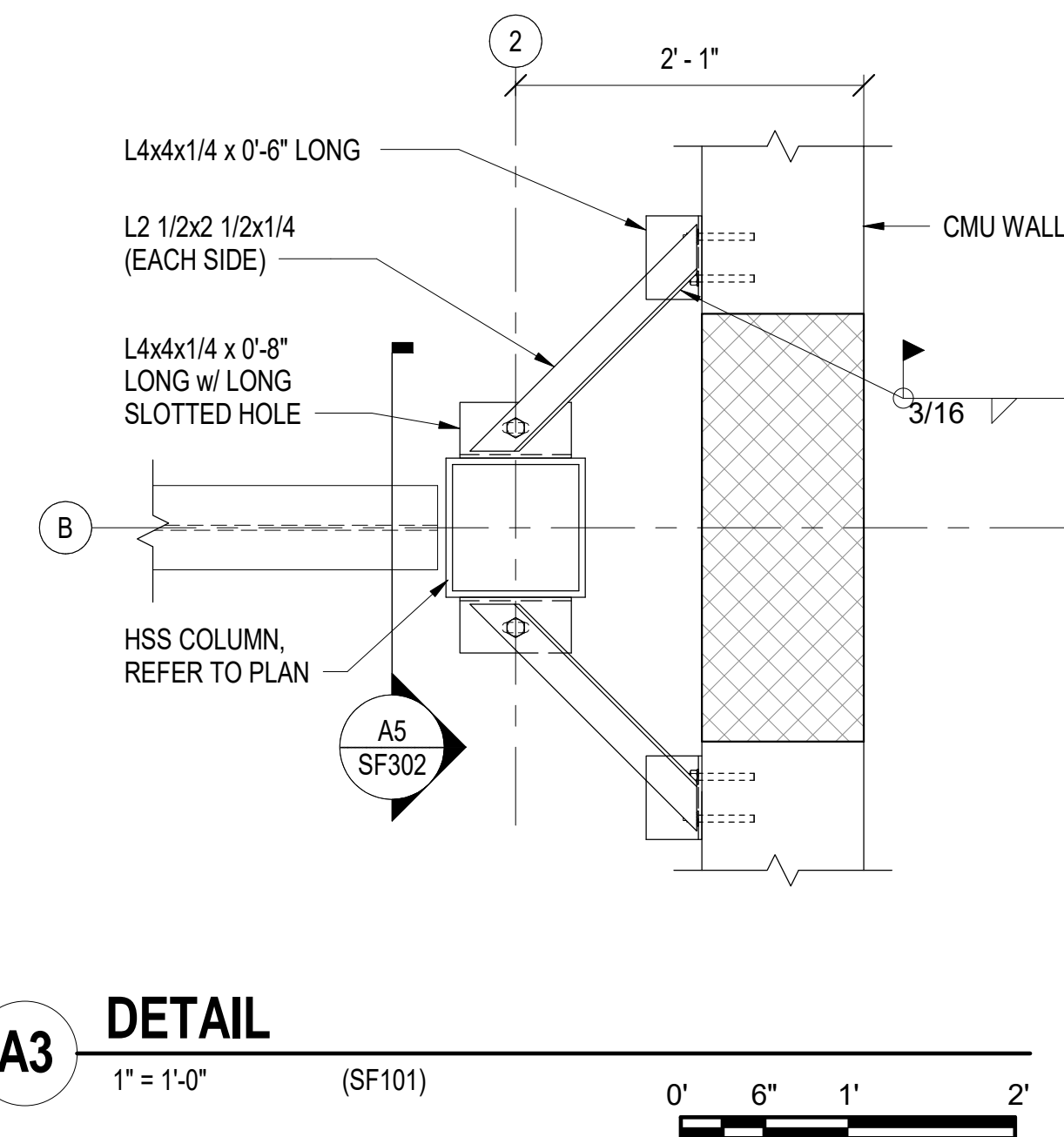
C2 BRIDGE CRANE TOLERANCE DIAGRAMS

NOT TO SCALE

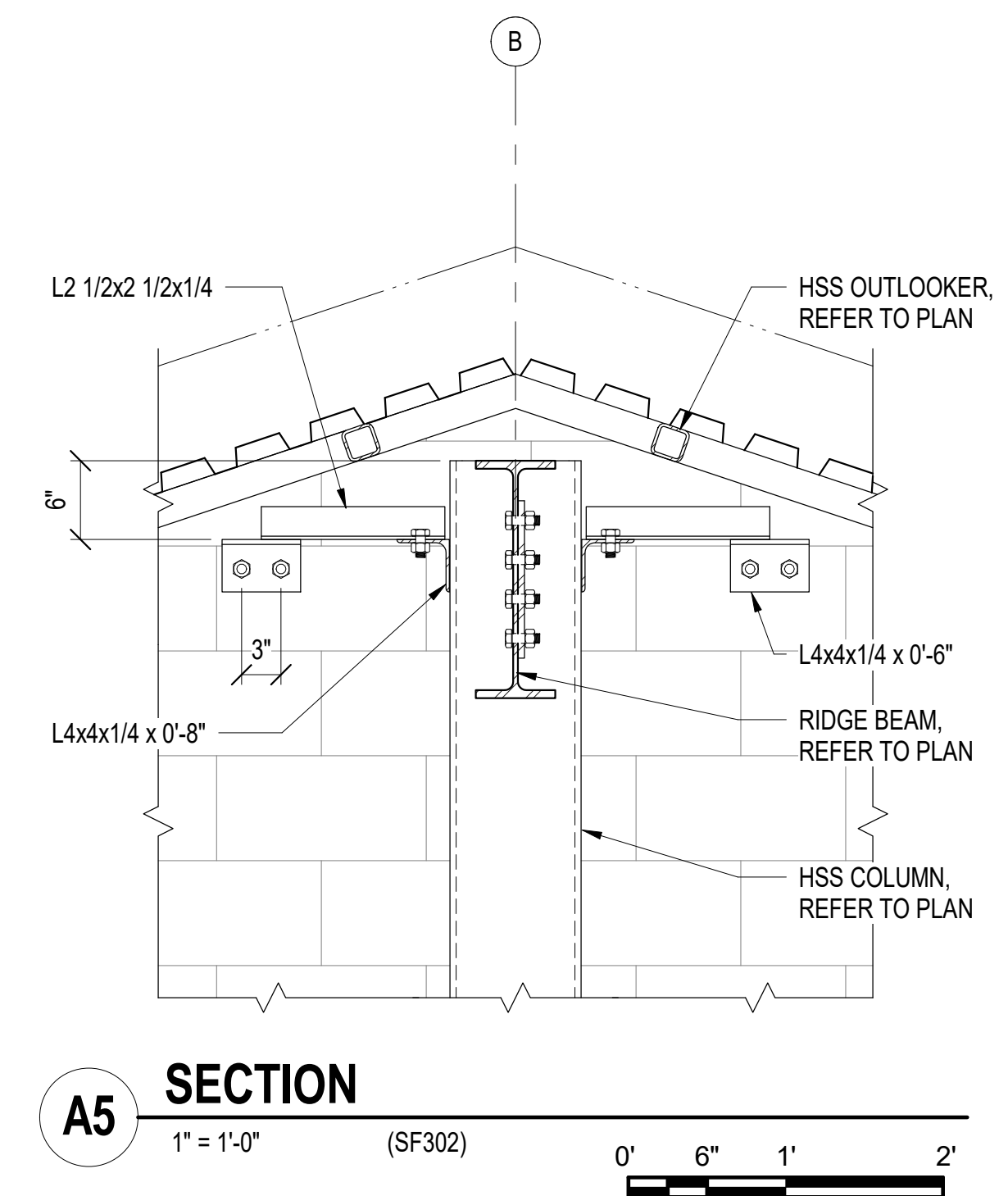


C4 **SECTION**
1" = 1'-0" (SF101)

1" = 1'-0" (SF101)



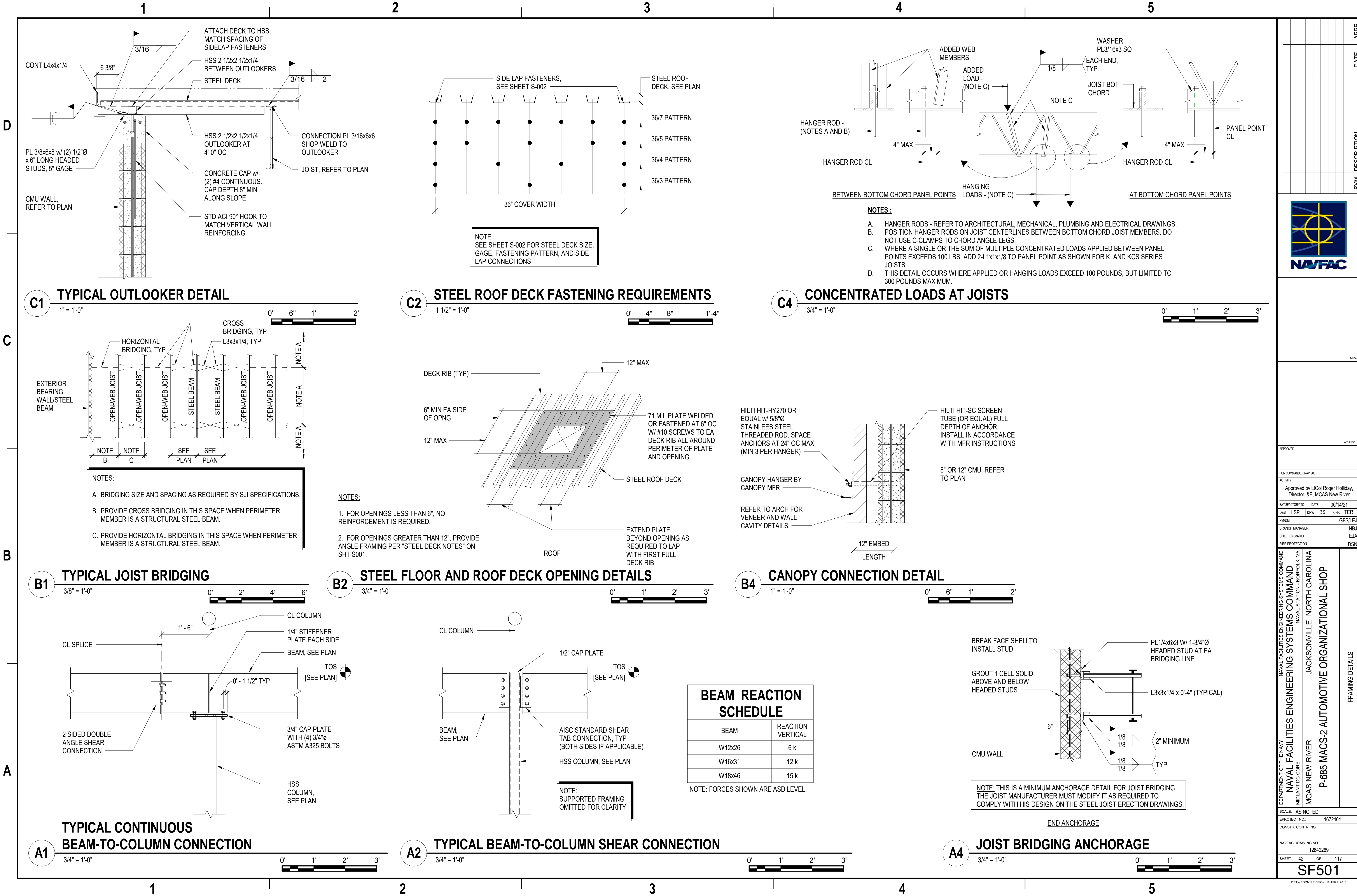
A3 **DETAIL**
1" = 1'-0" (SF101)

$$1'' = 1' - 0'' \quad (\text{SF101})$$


A5 **SECTION**
1" = 1'-0" (SF302)

1" = 1'-0" (SF302)

[illegible]



SYN	DESCRIPTION	DATE	APPR



APPROVED	AVE INFO
FOR COMMANDER NAVFAC	
ACTIVITY	Approved by LtCol Roger Holliday, Director I&E, MCAS New River
SATISFACTORY TO	DATE 06/14/21
DES LSP	DRW BS
CHK TER	
PMOM	GFS/LEJ
BRANCH MANAGER	NBJ
CHIEF ENDORSE	EJA
FIRE PROTECTION	DSN

DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND	NAVAL STATION - NORFOLK, VA
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND	JACKSONVILLE, NORTH CAROLINA	P-685 MACS-2 AUTOMOTIVE ORGANIZATIONAL SHOP
MILITARY DC CORE	MCAS NEW RIVER	
		FRAMING DETAILS

SCALE: AS NOTED	
PROJECT NO.: 1672404	
CONSTR. CONTR. NO.	
NAVFAC DRAWING NO. 12842269	
SHEET 42 OF 117	
SF501	
DRAWING REVISION: 12 APRIL 2018	