

HEITER RESIDENCE FOUNDATION ENGINEERING
29550 CO RD 14D
STEAMBOAT SPRINGS,
CO 80487

Reviewed for
Code Compliance

06/06/2022

MARTIN/MARTIN PROJECT NO. 21.0119.S.01
100% CONSTRUCTION DOCUMENTS
5/27/2022

AERIAL PHOTO



VICINITY MAP



CONSULTANT

MARTIN/MARTIN
CONSULTING ENGINEERS

12499 WEST COLFAX AVENUE, LAKEWOOD, COLORADO 80215
MAIN 303.431.6100 MARTINMARTIN.COM

41674
05/27/2022

DRAWING INDEX

SHEET NUMBER	SHEET TITLE
S001	NOTES
S002	NOTES
S100	FLOOR PLANS
S101	GARAGE FOUNDATION
S200	ELEVATIONS
S300	DETAILS
S301	DETAILS
S302	DETAILS

OWNER'S REPRESENTATIVE

EMPIRE WEST HOLDINGS, LLC

CONTACT: DARIN HEITER
PO BOX 6022
FRISCO, CO 80443

STEEL NOTES

1) **CONNECTIONS:**
1A) PROVIDE CONNECTIONS AS SHOWN IN THE 'STEEL BEAM CONNECTION SCHEDULES' AND DETAILS HEREIN.

2) **STEEL MATERIALS:**
2A) SEE 'STEEL MATERIAL TABLE'

3) **WELDING REQUIREMENTS:**
3A) WELDERS: HAVE IN POSSESSION CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS. QUALIFICATION TESTS.

3B) MINIMUM WELDS: AISC SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.

3C) WELD SIZES AND LENGTHS CALLED FOR ON THE DRAWINGS ARE THE NET EFFECTIVE REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT THE FAYING SURFACE.

3D) FIELD WELDING SYMBOLS INDICATE SEQUENCE CONSIDERED DURING DESIGN. THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE ENGINEER TO MODIFY WELD INSTALLATION LOCATION INDICATED ON THE DOCUMENTS:
- FROM SHOP TO FIELD
- FROM FIELD TO SHOP

4) **STRUCTURAL STEEL INSTALLATION:**
4A) UNLESS INDICATED OTHERWISE, SNUG TIGHTEN ALL JOINTS AS DEFINED BY AISC CONNECTIONS AS INDICATED BELOW SHALL BE PRETENSIONED PER TABLE J3.1 OF ANSII/ AISC 360-16
- WHERE NOTED ON THE DRAWINGS AS "PT"

STEEL MATERIAL TABLE					
STEEL ELEMENT	ASTM/TYPE	Fy (KSI)	Fu (KSI)	COMMENTS	
ANCHOR RODS	F1554 GR 55	55	75	WELDABLE, HEAVY HEX HEADED	
BOLTS	F3125 - TYPE A325 OR F1852	--	120	BOLTS ARE 3/4" UNO, USE TENSION-CONTROLLED WHERE POSSIBLE	
OTHER SHAPES	A36	36	58	--	
PIPE	A53 GR B	35	60	--	
PLATES	A36	36	58	--	
RECT HSS	A500 GR C	50	62	--	
ROUND HSS	A500 GR C	46	62	--	
WELDING ELECTRODES, THICKNESS OF THINNER PART > 0.1 INCHES (12 GA)	E70			PER AWS	
WF, WT	A992	50	65	--	

POST INSTALLED ANCHOR NOTES
1) PERSONNEL REQUIREMENTS: 1A) THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. SUBMIT DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS HAVE PASSED THE TRAINING COURSE PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS. 1B) PERSONNEL WHO WILL INSTALL HORIZONTAL OR UPWARDLY INCLINED ADHESIVE ANCHORS IN CONCRETE THAT SUPPORT SUSTAINED TENSION LOADS SHALL BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM. THESE ANCHORS ARE DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALL OUT. SUBMIT DOCUMENTED CONFIRMATION THAT PERSONNEL HAVE PASSED THE TRAINING COURSE PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS. 2) INSTALLATION REQUIREMENTS: 2A) ALL POST-INSTALLED ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND PER MANUFACTURER'S ON-SITE TRAINING. 2B) ALL ADHESIVE ANCHORS AND ADHESIVE ANCHORED REINFORCEMENT DESIGNS ARE FOR INSTALLATION IN THE FOLLOWING CONDITIONS, UNLESS NOTED OTHERWISE. WRITTEN APPROVAL MUST BE RECEIVED FROM ENGINEER PRIOR TO INSTALLATION IN ALTERNATE CONDITIONS. - DRY CONCRETE, UNLESS NOTED OTHERWISE. - CONCRETE TEMPERATURE AT TIME OF INSTALLATION THROUGH CURE TIME MUST BE WITHIN THE TEMPERATURE RANGE SPECIFIED IN MANUFACTURER'S PRINTED INSTALLATION INSTRUCTION FOR ADHESIVE GEL AND CURE TIMES. - ANCHOR HOLES TO BE HAMMER DRILLED AND CLEANED. - CONCRETE MUST BE AT LEAST 21 DAYS OLD BEFORE INSTALLATION OF ANCHORS. - HOLES TO BE CLEANED AND PREPARED IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND EVALUATION REPORT PRIOR TO ADHESIVE INJECTION. 2C) THE POSITION OF EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE SHALL BE LOCATED PRIOR TO INSTALLING POST INSTALLED ANCHORS OR REINFORCEMENT. EXISTING REINFORCEMENT SHALL BE LOCATED USING A SCANNER, GPR, X-RAY, CHIPPING OR OTHER MEANS. DO NOT DAMAGE OR CUT EXISTING REINFORCEMENT. 3) SUBSTITUTION REQUESTS: 3A) SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS AND PRODUCT DATA DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS IN COMPLIANCE WITH THE RELEVANT BUILDING CODES, LOAD RESISTANCE, INSTALLATION CATEGORY, CREEP APPROVAL, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE OF THE SPECIFIED PRODUCT.

POST-INSTALLED ANCHOR TABLE - DEWALT				
ANCHOR TYPE	PRODUCT	Fy (KSI)	Fu (KSI)	COMMENT
ADHESIVE (IN CONCRETE)		-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE (IN CONCRETE W/ > 12" EMBEDMENT)		-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
ADHESIVE ANCHOR RODS		36 MIN	58 MIN	THREADED ROD, UNGREASED
EXPANSION ANCHORS (IN CONCRETE)	SIMPSON STRONG BOLT	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS
SCREW ANCHORS	SIMPSON TITEN HD	-	-	SUBMIT CALCULATIONS FOR SUBSTITUTIONS

CONCRETE NOTES
1) GENERAL: 1A) ALL WORK SHALL CONFORM WITH ACI 301-10, UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS. 1B) DETAIL BARS IN ACCORDANCE WITH THE DRAWINGS, PROJECT SPECIFICATIONS, AND ACI PUBLICATION SP-66 (2004): "ACI DETAILING MANUAL." 2) REINFORCING MATERIALS: 2A) SEE 'REINFORCING MATERIAL TABLE' 3) REINFORCING FABRICATION: 3A) SPLICES: - NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS WHERE DETAIL NOT PROVIDED. WHERE PERMITTED, SPLICES MAY BE MADE BY CONTACT LAPS. - SEE 'LAP SPLICE SCHEDULE' FOR LAP LENGTHS. - SPLICE CONTINUOUS TOP AND BOTTOM BARS IN WALLS, BEAMS, AND GRADE BEAMS 'LTS' UNLESS NOTED OTHERWISE. - SPLICE TOP BARS AT MIDSPAN AND BOTTOM BARS OVER SUPPORT UNLESS NOTED OTHERWISE. 3B) MISCELLANEOUS REINFORCING REQUIREMENTS: - PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT. - MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED. - NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4-2011. - PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REENTRANT CORNERS AS NOTED IN TYPICAL DETAILS. 4) STRUCTURAL CONCRETE MIX REQUIREMENTS: 4A) SEE 'CONCRETE MIX TABLE' 5) SLAB-ON-GRADE: 5A) VERIFY ALKALINITY OF CONCRETE SURFACE, SLAB VAPOR TRANSMISSION, AND SLAB FLATNESS/LEVELNESS ARE COMPATIBLE WITH FLOORING SYSTEM AND ADHESIVES PRIOR TO INSTALLING FLOORING. 5B) TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB OR USE LEVELING COMPOUND IF FLOOR FLATNESS AND LEVELNESS VALUES ARE NOT ACCEPTABLE TO THE ARCHITECT. 6) NON-SHRINK GROUT: 6A) CONFORM TO ASTM C1107 6B) ACHIEVE 6000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. 7) PLACING REINFORCEMENT: 7A) REINFORCEMENT PROTECTION: - SEE 'REBAR COVER TABLE' - SEE ACI 117-10 FOR REINFORCEMENT PLACING TOLERANCES 7B) PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED. 8) CONSTRUCTION/CONTROL JOINTS: 8A) SUBMIT DRAWINGS SHOWING CONSTRUCTION AND CONTROL JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS. CONSTRUCTION JOINT LOCATIONS AND CASTING SEQUENCE SHALL BE ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING/SHRINKAGE. **OR** STRUCTURAL DRAWINGS MUST DEFINE LOCATIONS AND POUR DELAYS FOR POUR STRIPS AND OTHER SEQUENCING ISSUES WHICH IMPACT FINAL PERFORMANCE OF THE STRUCTURE. PROJECTS WHERE SHOWING JOINTS ON THE STRUCTURAL DRAWINGS MAY BE APPROPRIATE INCLUDE LARGE PLAN AREAS WITH NO EXPANSION JOINTS, POST-TENSIONED SLABS, ETC. FOR SUCH PROJECTS, USE THE NOTE BELOW: 8B) CONSTRUCTION JOINT LOCATION AND CASTING SEQUENCE SHOWN ON THE DRAWINGS IS SUGGESTED AND HAS BEEN ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING. SUBMIT DRAWINGS SHOWING PROPOSED CONSTRUCTION JOINT LOCATION AND CASTING SEQUENCE. 8C) CONCRETE CONSTRUCTION JOINT SURFACE SHALL BE CLEANED AND ALL LAITANCE AND LOOSE MATERIAL REMOVED PRIOR TO SECOND CONCRETE PLACEMENT. 9) MODIFICATIONS TO HARDENED OR EXISTING CONCRETE 9A) UNLESS NOTED ON THE STRUCTURAL DOCUMENTS MODIFICATIONS AS LISTED BELOW SHALL NOT BE MADE TO HARDENED OR EXISTING CONCRETE WITHOUT APPROVAL OF THE ARCHITECT: - SAW CUTTING - CORING - CHIPPING 9B) DO NOT CUT OR DAMAGE ANY REINFORCING WITHOUT APPROVAL OF THE ARCHITECT 10) SLEEVES, OPENINGS, AND EMBEDDED PIPE/CONDUITS: 10A) GENERAL - REFER TO TYPICAL DETAILS FOR REQUIREMENTS FOR CONDUIT AND PIPE EMBEDDED IN WALLS AND SLABS - REFER TO TYPICAL DETAILS FOR SPACING AND LAYOUT LIMITATIONS FOR SLEEVES AND OPENINGS - FORM OPENINGS AND PROVIDE SLEEVES BEFORE PLACING CONCRETE. CORING OF CONCRETE IS NOT PERMITTED - AT COMPOSITE SLABS DO NOT CUT DECK FOR AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT 10B) REINFORCING - REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS AT SLEEVES, OPENINGS OR CONDUIT - DO NOT CUT REINFORCING WHICH MAY CONFLICT

REINFORCING MATERIAL TABLE				
REINF ELEMENT	ASTM	Fy (KSI)	Fu (KSI)	COMMENTS
TYP REINFORCING	A615	60	90	-
WELDED & FIELD BENT REINF	A706	60	80	-

CONCRETE MIX TABLE							
CONC MIX TYPE	INTENDED USE	28 DAY STRENGTH f _c (KSI)	CONC WEIGHT	MAX W/C RATIO, INCLUDING FLY ASH	MAX AGGREGATE SIZE (IN), NOTE a	TOTAL AIR CONTENT (%), NOTE b	OTHER REQTS, NOTE c
1	FOOTINGS	4.5	NWC	-	1	-	-
2	BSMT WALLS EXPOSED TO MOISTURE	4.5	NWC	0.45	3/4	6	-
3	INT SLABS ON GRADE	3.5	NWC	-	1	NP	-
4	ALL CONC OTHERWISE NOT SPECIFIED	4	NWC	0.50	3/4	6	-

CONCRETE MIX TABLE NOTES: PROPORTIONS OF MATERIALS IN CONCRETE MIX SHALL BE ESTABLISHED TO: - PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO NOTED. - PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED, WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS. USE TYPE I / II PORTLAND CEMENT UNLESS NOTED OTHERWISE. FOR CONCRETE MIXES USED ON FLOORS MINIMUM CEMENTITIOUS CONTENT SHALL BE 540 POUNDS PER CUBIC YARD. FOR CONCRETE PLACED BY PUMPING PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING SUBJECT TO THE PROVISIONS OF NOTE b BELOW. a. FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33: 3/4": #67 AGGREGATE 1": #57 AGGREGATE b. WHERE AIR CONTENT IS INDICATED IN THE MIX TABLE, PROVIDE AIR ENTRAINING ADMIXTURE. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. "NP" IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED EXCEPT WHERE CONTRACTOR CAN DEMONSTRATE THAT SLABS WITH ENTRAINED AIR WILL HAVE A FINISH ACCEPTABLE TO THE ARCHITECT WITHOUT BLISTERS. AIR CONTENT NOTED IS BASED ON 3/4" AGGREGATE. IF 3/8" AGGREGATE IS USED, INCREASE AIR CONTENT BY 1 1/2%.

WOOD NOTES
1) LAMINATED MEMBER SIZES: 1A) (LVL, PSL, LSL, GLU-LAM AND OTHER FABRICATED MEMBERS (TJI) SIZES SHOWN ARE NET. OTHER MEMBER SIZES ARE NOMINAL. 2) FRAMING LUMBER: 2A) DRY (19% MAXIMUM MOISTURE CONTENT AT THE TIME OF INSTALLATION), HEM-FIR WITH MINIMUM DESIGN VALUES BASED ON THE 2018 NDS. SEE 'FRAMING LUMBER TABLE' FOR MINIMUM GRADES. 2B) BEAMS AND STRINGERS USED WITH CANTILEVERS OR CONTINUOUS SPANS SHALL BE GRADED TO PROVIDE THE SPECIFIED ALLOWABLE STRESSES OVER THE ENTIRE MEMBER LENGTH. 3) FABRICATED LUMBER: 3A) FABRICATED LUMBER DESIGNATIONS ARE THOSE MANUFACTURED BY I-LEVEL, BOISE, IDAHO. 3B) FABRICATED LUMBER IS DESIGNATED ON THE DRAWINGS AS ONE OF THE FOLLOWING: TJI JOISTS, MICROLAM (LVL), PARALLAM (PSL), TIMBERSTRAND (LSL) OR RIMBOARD. 3C) THE MANUFACTURER SHALL PROVIDE WEB STIFFENERS ON I-JOISTS, END BLOCKING, BRIDGING, AND ERECTION BRACING AS REQUIRED. SEE "DESIGN CRITERIA" FOR DESIGN DEAD AND LIVE LOADS. 3D) FABRICATED LUMBER SHALL BE DRY. 3E) SEE 'FABRICATED LUMBER TABLE' FOR MINIMUM PROPERTIES (AT NORMAL LOAD DURATIONS). 4) SHEATHING: 4A) WOOD STRUCTURAL PANELS (WSP) - WOOD STRUCTURAL PANELS SHALL BE APA RATED SHEATHING CONFORMING TO U.S. DEPARTMENT OF COMMERCE STANDARD PS 2-10. - ALL WOOD PANELS SHALL BE EXPOSURE 1. 5) NAILING: - UNLESS NOTED OTHERWISE ON THE DRAWINGS, PROVIDE BOX NAILS COMMON NAILS SINKERS WITH SIZES SHOWN IN THE TABLE BELOW. MINIMUM NAILING SHALL BE IN ACCORDANCE WITH THE TYPICAL WOOD CONNECTION SCHEDULE AND IBC 2018 TABLE 2304.10.1 5B) WHERE COMMON NAILS ARE SPECIFIED, BOX NAILS OF EQUAL LENGTH MAY BE SUBSTITUTED PROVIDED ONE BOX NAIL IS ADDED FOR EVERY THREE COMMON NAILS SPECIFIED. 6) METAL CONNECTORS: 6A) FRAMING CONNECTORS SHALL CONFORM TO IBC 2018 SECTION 2303.5. FRAMING CONNECTOR DESIGNATIONS ARE THOSE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CALIFORNIA. OTHER MANUFACTURER'S PRODUCTS MAY BE USED IF APPROVED BY THE ENGINEER. FURNISH NAILS AND/OR BOLTS OF DIAMETER, LENGTH, AND NUMBER SPECIFIED BY THE MANUFACTURER FOR EACH CONNECTOR. 6B) ALL CONNECTOR HOLES SHALL BE FILLED WITH PROPER NAILS/BOLTS INCLUDING OPTIONAL NAIL LOCATIONS FOR UPLIFT. ALL BOLT HOLES SHALL BE DRILLED INTO FRAMING MEMBERS. MAXIMUM HOLE DIAMETER IS 1/16" LARGER THAN THE BOLT DIAMETER. 7) OPENINGS: 7A) OPENING, POCKETS, ETC., SHALL NOT BE PLACED IN BEAMS, JOISTS, RAFTERS, STUDS, POSTS, COLUMNS, TIMBER AND OTHER STRUCTURAL MEMBERS UNLESS DETAILED ON THE STRUCTURAL DRAWINGS.

FRAMING LUMBER SCHEDULE				
TYPE OF USE	GRADE	Fb (PSI)	Fv (PSI)	E (PSI)
EXTERIOR STUDS	NO. 2			
LOAD BEARING STUDS (AND COLUMNS ASSEMBLED FROM STUDS)	NO. 2			
NON-LOAD BEARING STUDS	STUD			
BEAMS & STRINGERS	NO. 1			
POSTS & TIMBER	NO. 1			
EXPOSED FRAMING	NO. 1			
DECKING	SELECT DX			
ALL OTHER	NO. 1			

FABRICATED LUMBER TABLE							
PRODUCT	SIZE	TYPE	Fb (PSI)	Fv (PSI)	Ft (PSI)	E (KSI)	REMARKS
PARALLEL STRAND BEAM	--	PSL	2000	290	2025	2000	--
LAMINATED STRAND BEAM	--	LSL	2250	400	1075	1500	--
LAMINATED VENEER BEAM	--	LVL	2600	285	1555	1900	--

APA RATED SHEATHING	
PANEL SPAN RATING	PANEL THICKNESS
24/16	7/16"
32/16	15/32", 1/2"
40/20	19/32", 5/8"
48/24	23/32", 3/4"

MARTIN/MARTINCONSULTING ENGINEERS

32499 WEST COLfax AVENUE, LARWOOD, COLORADO 80235

MAIN 303.475.6500 MARTINMARTIN.COM

Reviewed for Code Compliance

06/06/2022

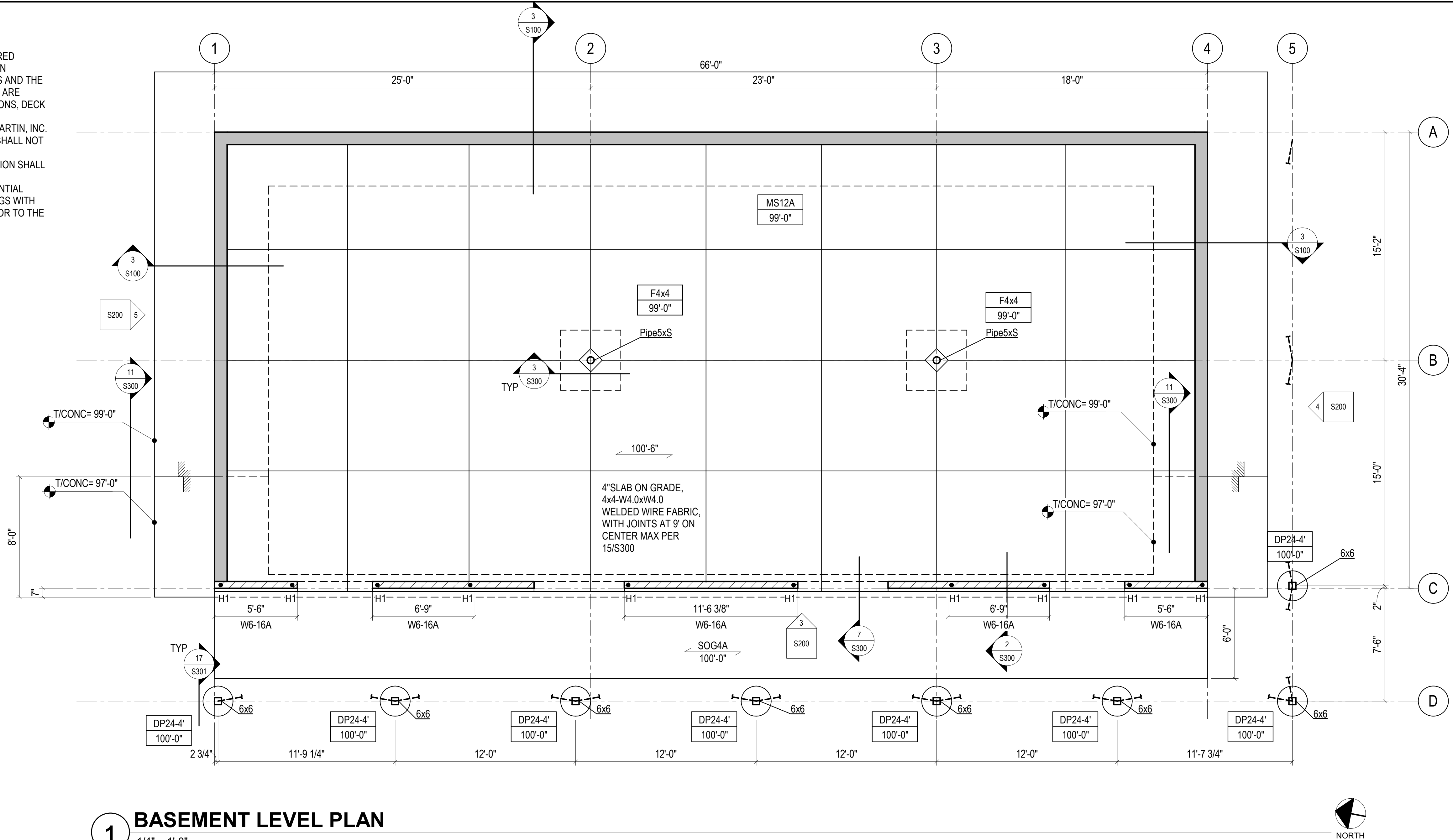
HEITER RESIDENCE FOUNDATION ENGINEERING

29550 CO RD 14D
STEAMBOAT SPRINGS, CO 80487

REVISIONS		
NO.	ISSUE	DATE
100% CONSTRUCTION DOCUMENTS		
PROJECT NO:		22.0119.S01
DATE:		5/27/2022
© MARTIN/MARTIN 2022		

SHEET TITLE: NOTES
SHEET NUMBER: S002

- Reviewed for
de Compliance**
- 06/08/2022
- 41674
- CORPORATE COMPLIANCE DEPARTMENT
- SPRINGFIELD, MASSACHUSETTS
- Matt Fisher



NORTH

The diagram is a structural floor plan for a building addition. It features a grid system with vertical lines 1 through 5 and horizontal lines A through D. The plan shows the layout of steel beams (W16x67, W16x31, W16x40), columns (S301, S302, S200), and wood decking (1-1/4"x6" pressure treated). It also indicates the integration of a pre-manufactured residential building, showing its footprint and elevation relative to the new structure. Key dimensions include overall lengths of 25'-0", 66'-0", 23'-0", 18'-0", and 6'-0", and widths of 10'-2" and 7'-6". Various notes provide details on coordination, elevations, and material specifications. A north arrow is located in the upper left corner.

NOTES:
 1. REFER TO SHEET S303 FOR WOOD COLUMN AND BEAM SCHEDULE.



HEILIER RESIDENCE FOUNDATION ENGINEERING

STEAMBOAT SPRINGS, CO 80487

REVISIONS		
NO.	ISSUE	DATE

100% CONSTRUCTION
DOCUMENTS

PROJECT NO: 22.0119.S01
DATE: 5/27/2022

DOOR PLANS

NUMBER:
S100

1. MARTINMARTIN, INC. HAS BEEN RETAINED TO PROVIDE STRUCTURAL ENGINEERING SERVICES FOR FOUNDATIONS SUPPORTING A PRE-ENGINEERED MODULAR HOME AND GARAGE AND FOR STRUCTURAL ENGINEERING SERVICES FOR A DECK FRAMED INTO THE HOME. FOUNDATIONS HAVE BEEN DESIGNED BY MM BASED ON LIMITED INFORMATION MADE AVAILABLE TO MM BY THE CLIENT. INTERFACE DETAILS BETWEEN THE FOUNDATIONS AND THE PRE-FABRICATED STRUCTURES SHALL BE CONSIDERED AS PRELIMINARY. AS THE HOME AND GARAGE ENGINEERING AND DRAWING PRODUCTION ARE COMPLETED ALL STRUCTURALLY RELEVANT INFORMATION SHALL BE MADE AVAILABLE TO MM FOR REVIEW. MODIFICATIONS TO THE FOUNDATIONS, DECK FRAMING AND INTERFACE DETAILS / CONNECTIONS MAY BE REQUIRED PRIOR TO CONSTRUCTION.
2. THE STRUCTURAL ENGINEERING OF THE HOME AND THE GARAGE STRUCTURES ARE NOT INCLUDED WITHIN THE SCOPE OF WORK OF MARTINMARTIN, INC.
3. FINAL ATTACHMENT DESIGN BETWEEN THE FOUNDATIONS AND THE PRE-FABRICATED STRUCTURES IS THE RESPONSIBILITY OF OTHERS BUT SHALL NOT BE MORE THAN THE INDICATED MINIMUM ATTACHMENTS INCLUDED WITHIN THESE DOCUMENTS.
4. ALL DIMENSIONAL AND LAYOUT INFORMATION PROVIDED HEREIN SHALL BE CONSIDERED PRELIMINARY. FINAL DIMENSIONAL LAYOUT INFORMATION SHALL BE COORDINATED BY THE CONTRACTOR.
5. FOUNDATION PLAN LOCATIONS AND BEARING ELEVATION IS BASED ON THE LIMITED INFORMATION PROVIDED BY THE PRE-ENGINEERED RESIDENTIAL CONTRACTOR. THE CONTRACTOR SHALL COORDINATE FOUNDATION LOCATIONS AND/OR ELEVATIONS SHOWN IN THESE STRUCTURAL DRAWINGS WITH THE PRE-ENGINEERED RESIDENTIAL BUILDING CONTRACTOR PRIOR TO CONSTRUCTION. NOTIFY MARTINMARTIN IF THERE DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.



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SHEET TITLE:
**GARAGE
FOUNDATION**

SHEET NUMBER:
S101



1 3D ORTHO VIEW

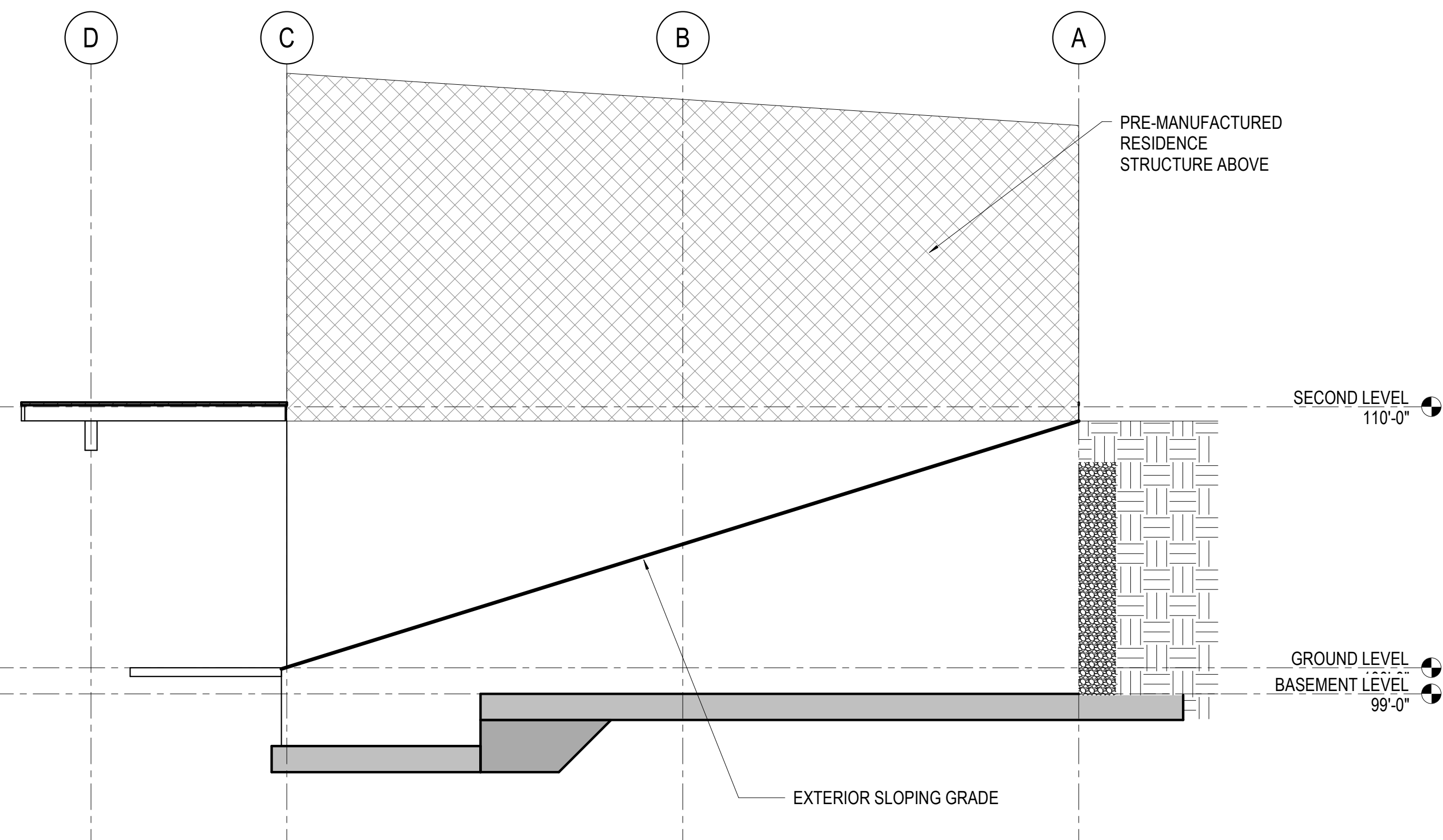
WOOD WALL SHEATHING SCHEDULE 10d NAILS											
MARK	SHEATHING	BLOCKED EDGES	EDGE NAILING	ANCHORAGE TO FOUNDATION	PLATE WASHER REQUIRED AT BASE ANCHORS	CONNECTION AT SILL PLATE	WOOD NAILER AT STEEL	CONNECTION AT TOP PLATE	VW/OMEGA	VS/OMEGA	REMARKS
A	15/32"	YES	10d @ 6" OC	@ 24" OC	YES	16d @ 4"OC	(2) 0.177"Ø PAF @ 8" OC	SIMPSON A35 @ 18" OC	435 PLF	310 PLF	--

WOOD HOLD DOWN SCHEDULE						
MARK	HOLD DOWN TYPE	INTERMEDIATE LEVEL STRAP TYPE	ANCHOR REQTS	MINIMUM STUD PACK AT HOLD DOWN	NUMBER OF PAF	REMARKS
H1	HDU2-SDS2.5	N/A	SSTB16	(2) DF #2 STUDS	11	6" MIN STEMWALL

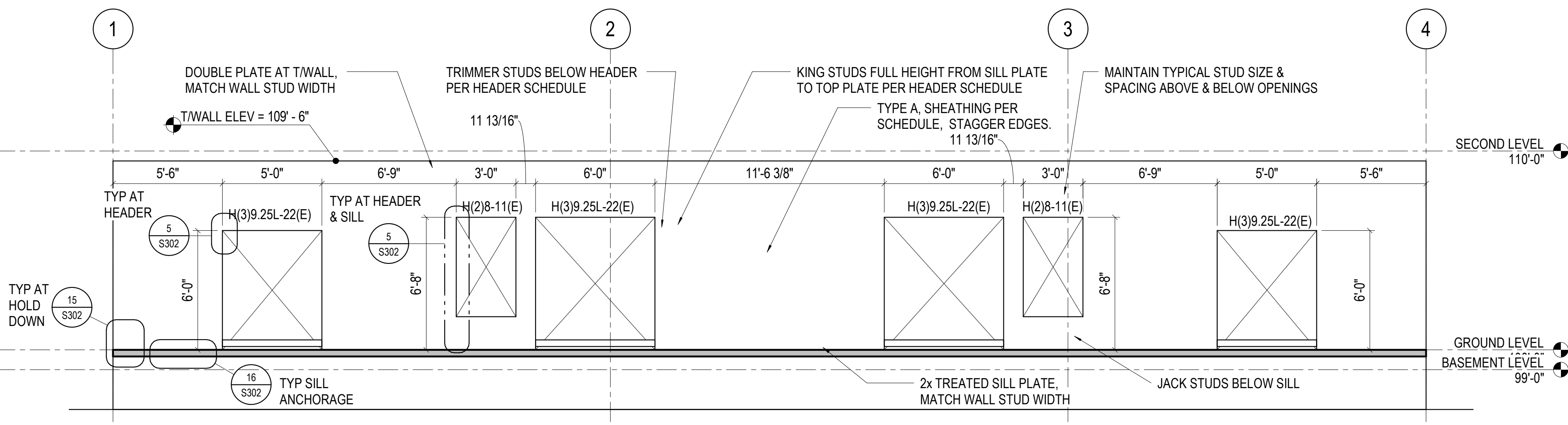
WOOD WALL FRAMING SCHEDULE	
MARK	STUD SIZE & SPACING
W6-16	2x6 DF #2 @ 16" OC

- WALL FRAMING NOTES:**
- SHEATHING PER SCHEDULE. STAGGER EDGES
 - ALL EXTERIOR STRUCTURAL WOOD WALLS SHALL BE W6-X16, UNO
 - SHEATHING TO BE APA-RATED SHEATHING. SEE TABLE IN GENERAL NOTES FOR ADDITIONAL INFORMATION.
 - SHEATHING NAILS SHALL BE INSTALLED A MINIMUM OF 3/8" FROM PANEL EDGES
 - SHEATHING TO BE BACKED WITH 2" NOMINAL OR WIDER MEMBERS
A. NAILS SPACED AT 3" OC OR LESS SHALL BE BACKED WITH 3" NOMINAL OR WIDER MEMBERS, INCLUDING SILL CONDITIONS.
 - FIELD NAILING SHALL BE 10d NAILS @ 12" OC AT SHEATHING
 - SHEATHING NAILS TO BE COMMON
 - CONNECT SHEATHING DIRECTLY TO STUDS
 - ALL WALL NAILING AT WALLS, INCLUDING HEADERS, BLOCKING, RIMBOARDS, ETC SHALL CONFORM TO REQUIREMENTS OF NAILING SCHEDULE IN IBC 2018, TABLE 2304.10.1 UNLESS MORE STRINGENT REQUIREMENTS ARE SHOWN IN DRAWINGS.

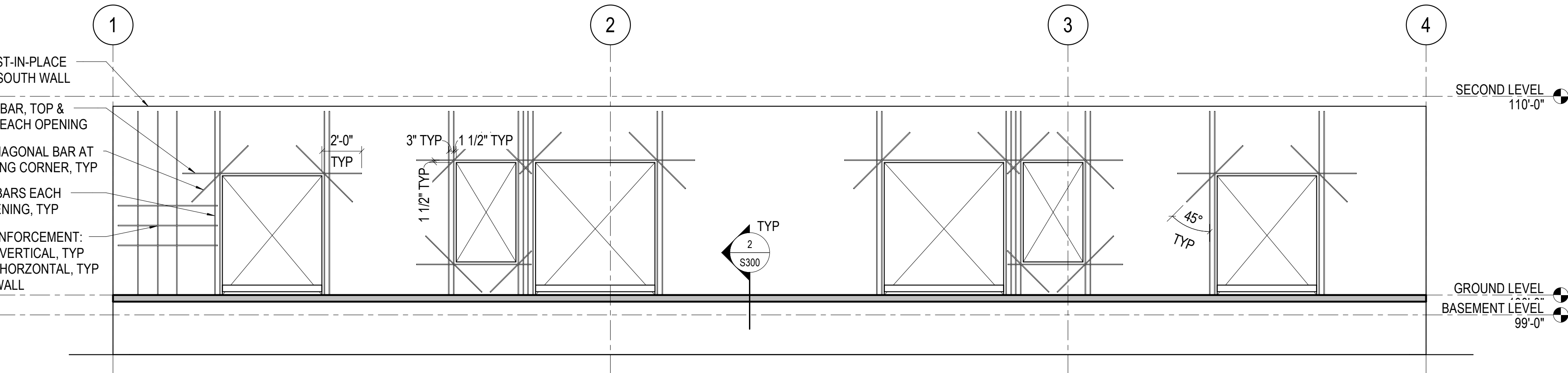
- HOLD DOWN NOTES:**
- HOLD DOWN LOCATIONS AS SHOWN ON PLAN
 - INSTALL ALL HOLD DOWNS AND HOLD DOWN ANCHORS PER MNFR'S WRITTEN INSTRUCTIONS
 - MINIMUM HOLD DOWN ATTACHMENT TO BE (2) 2x WALL STUD THICKNESS, UNLESS NOTED OTHERWISE



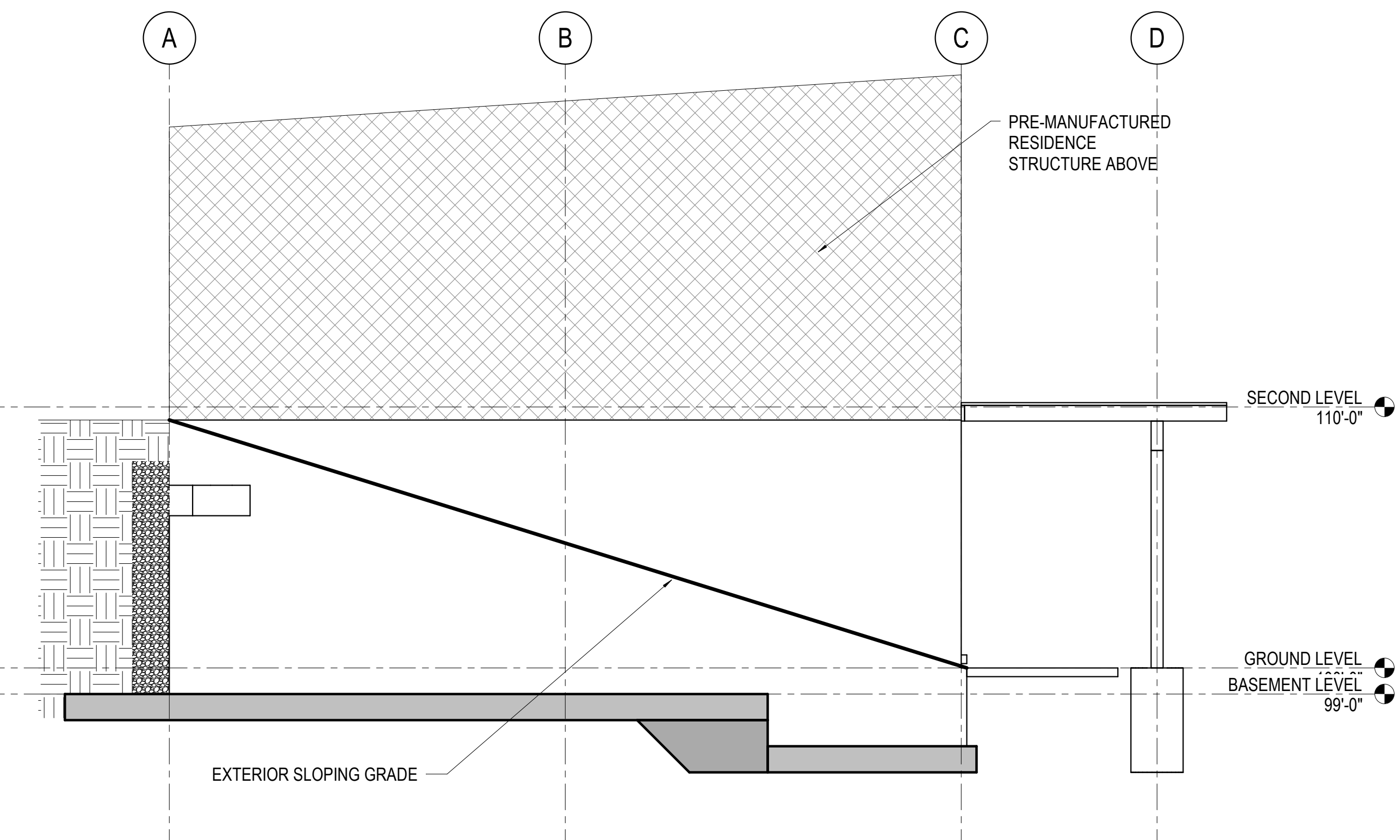
4 EAST ELEVATION
1/4" = 1'-0"



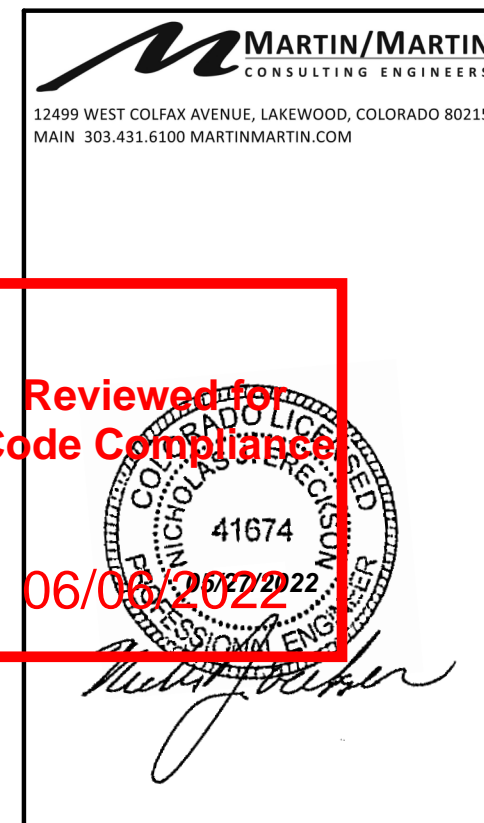
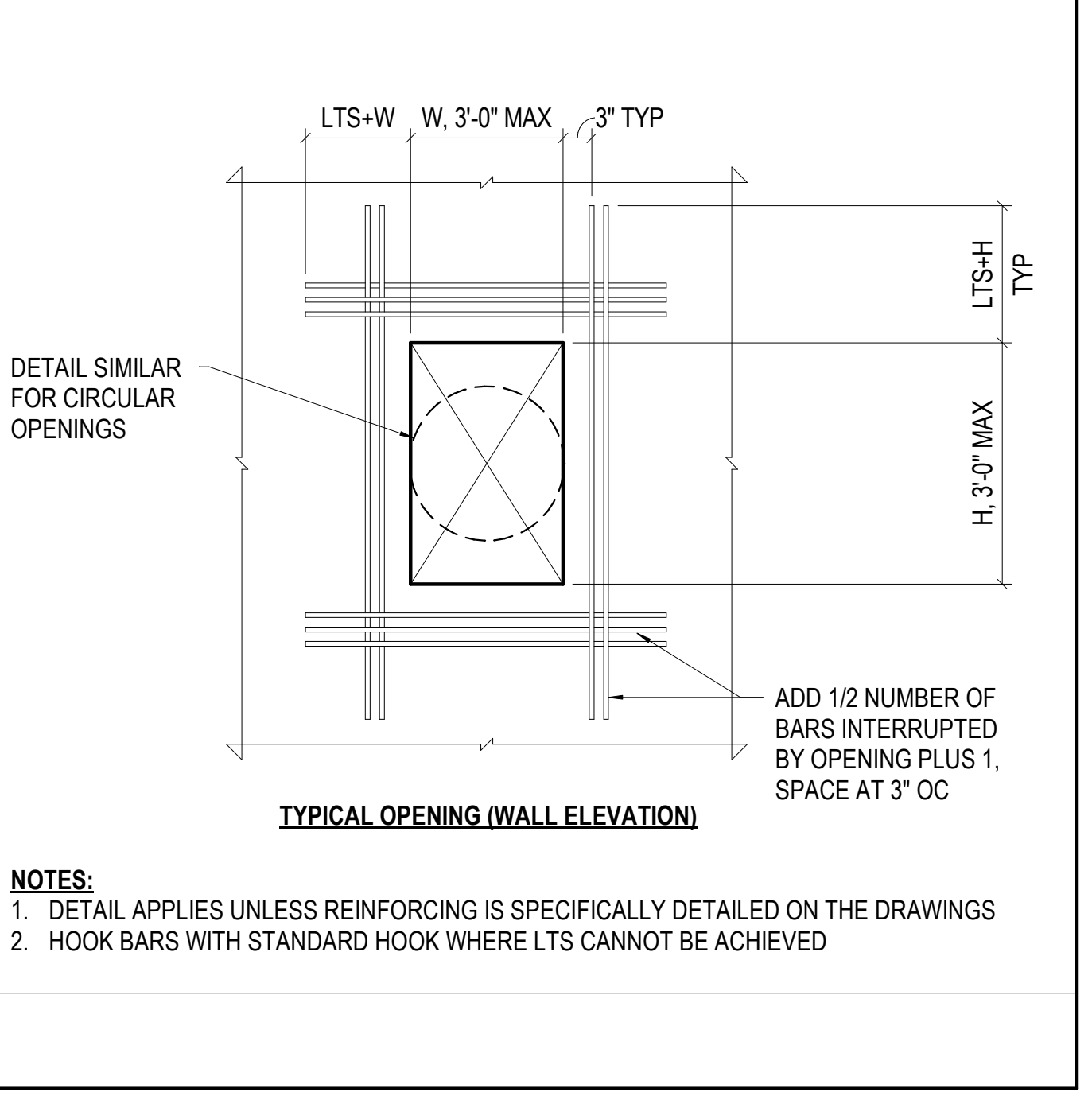
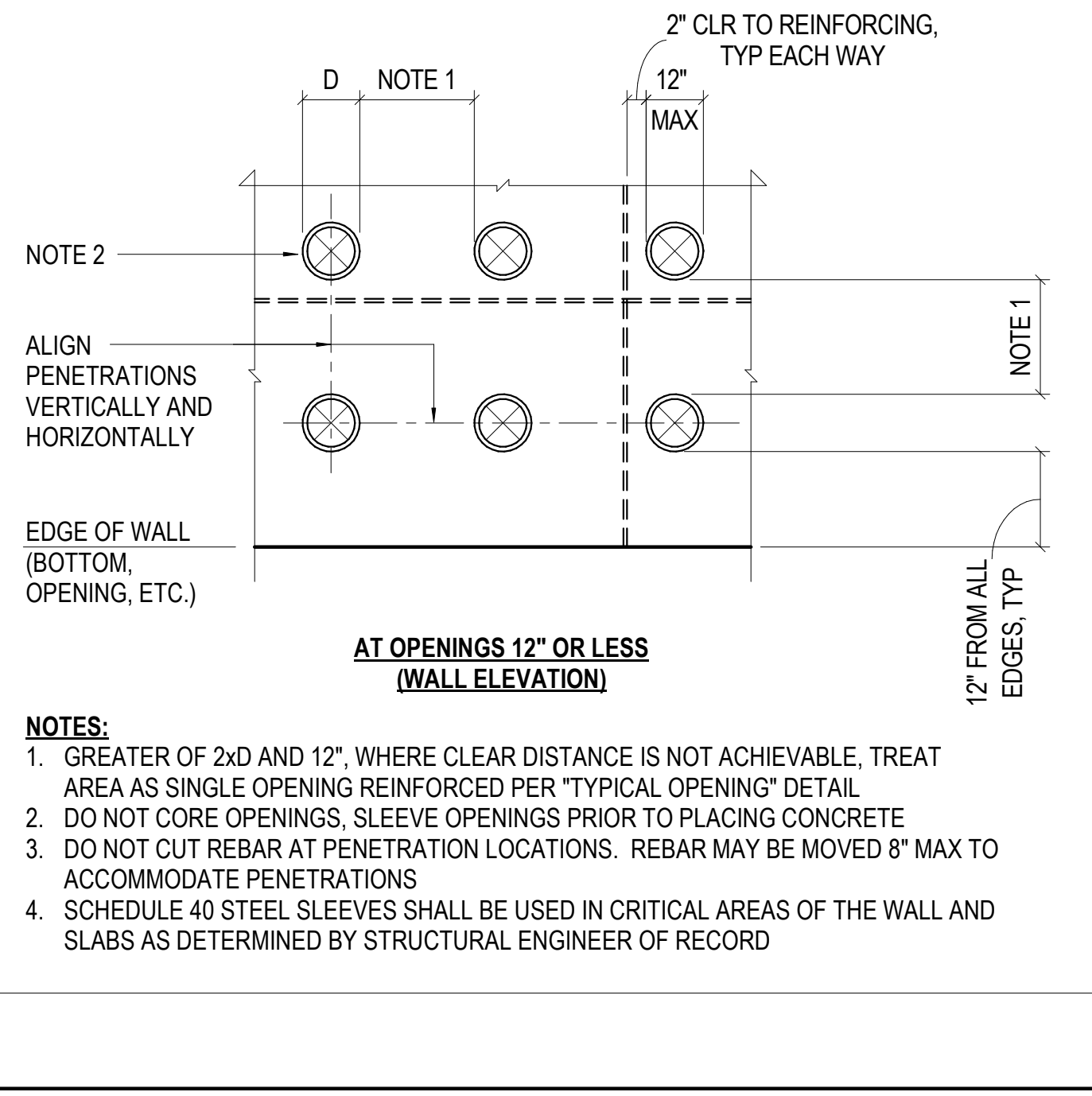
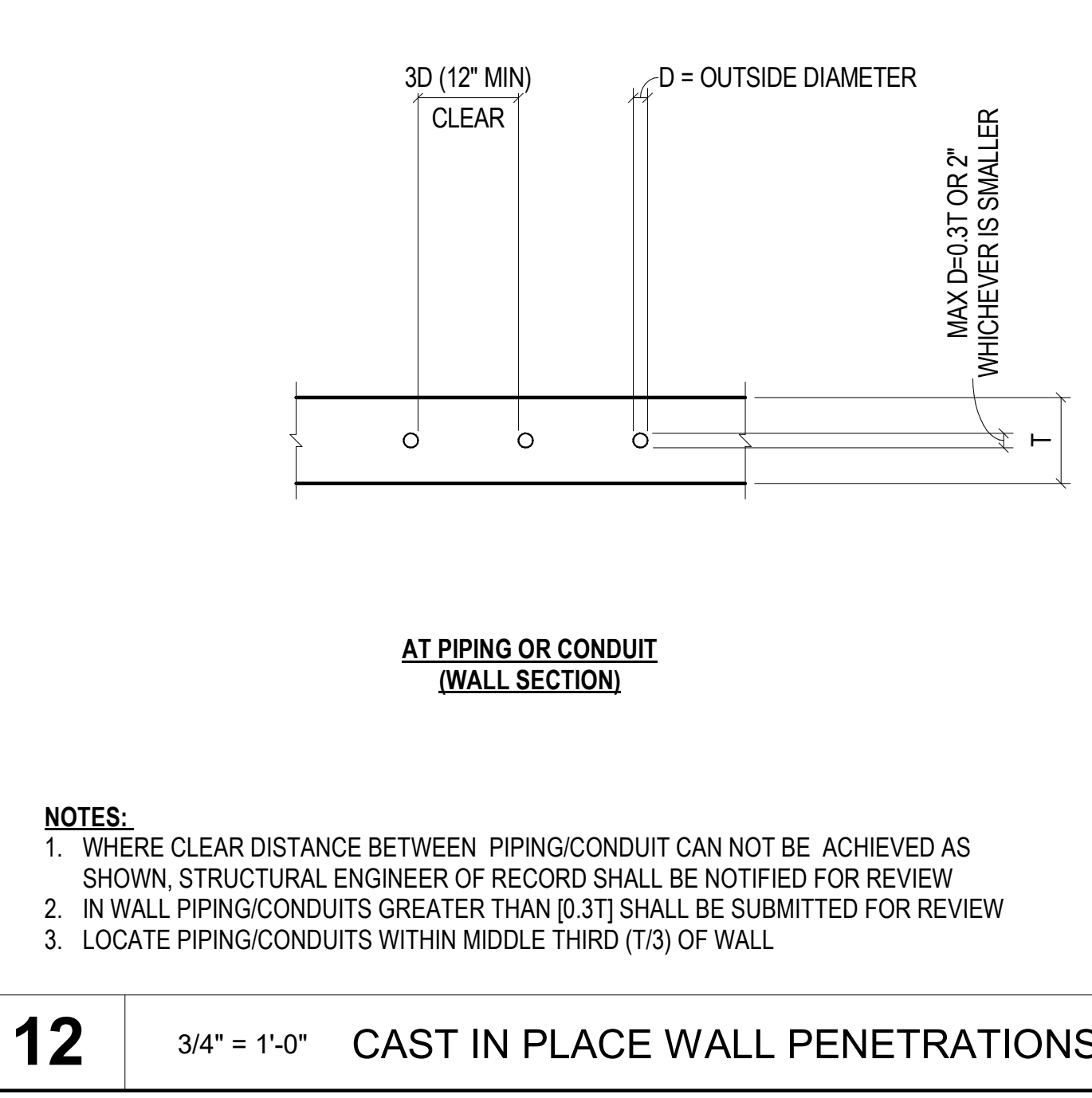
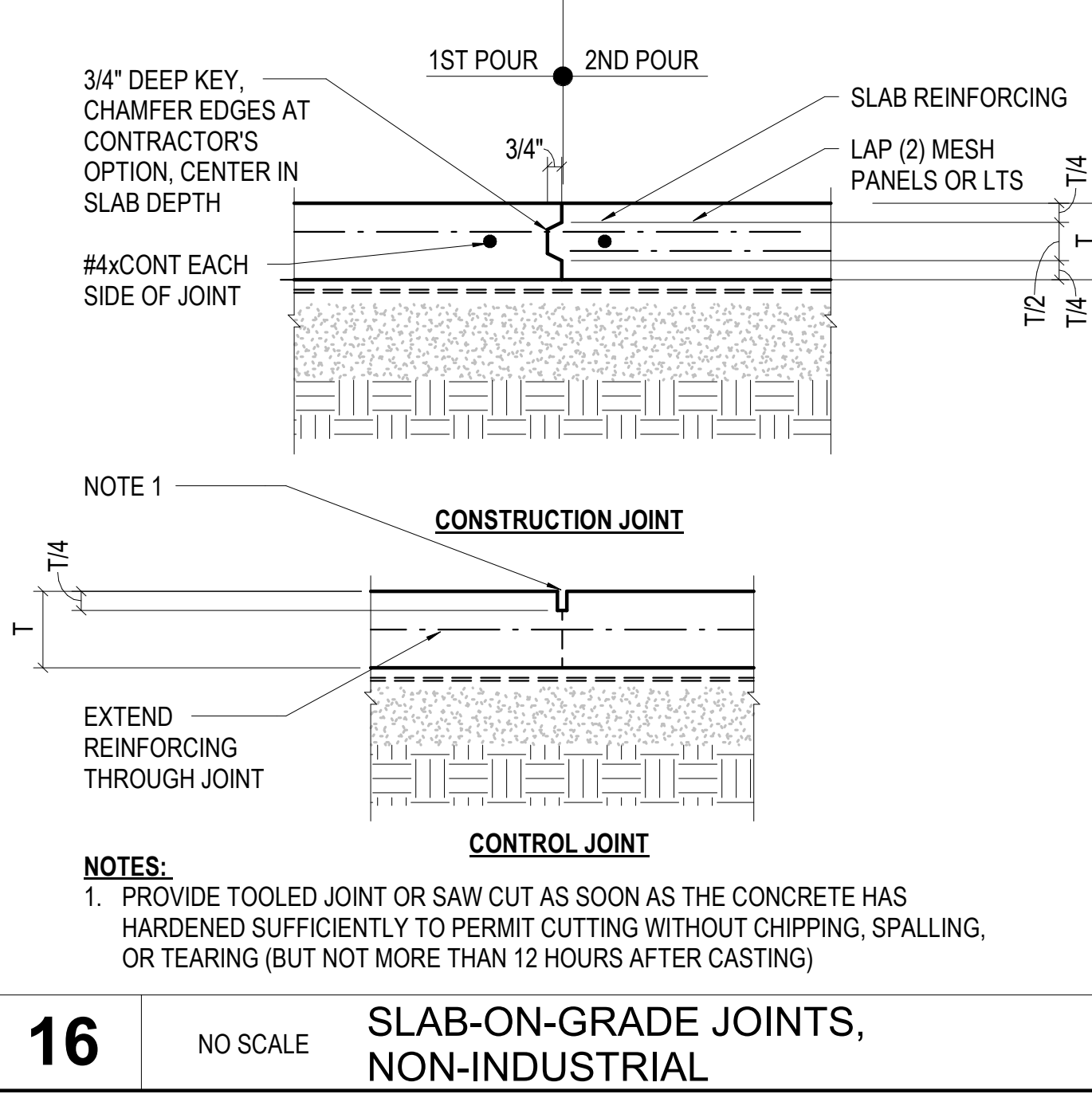
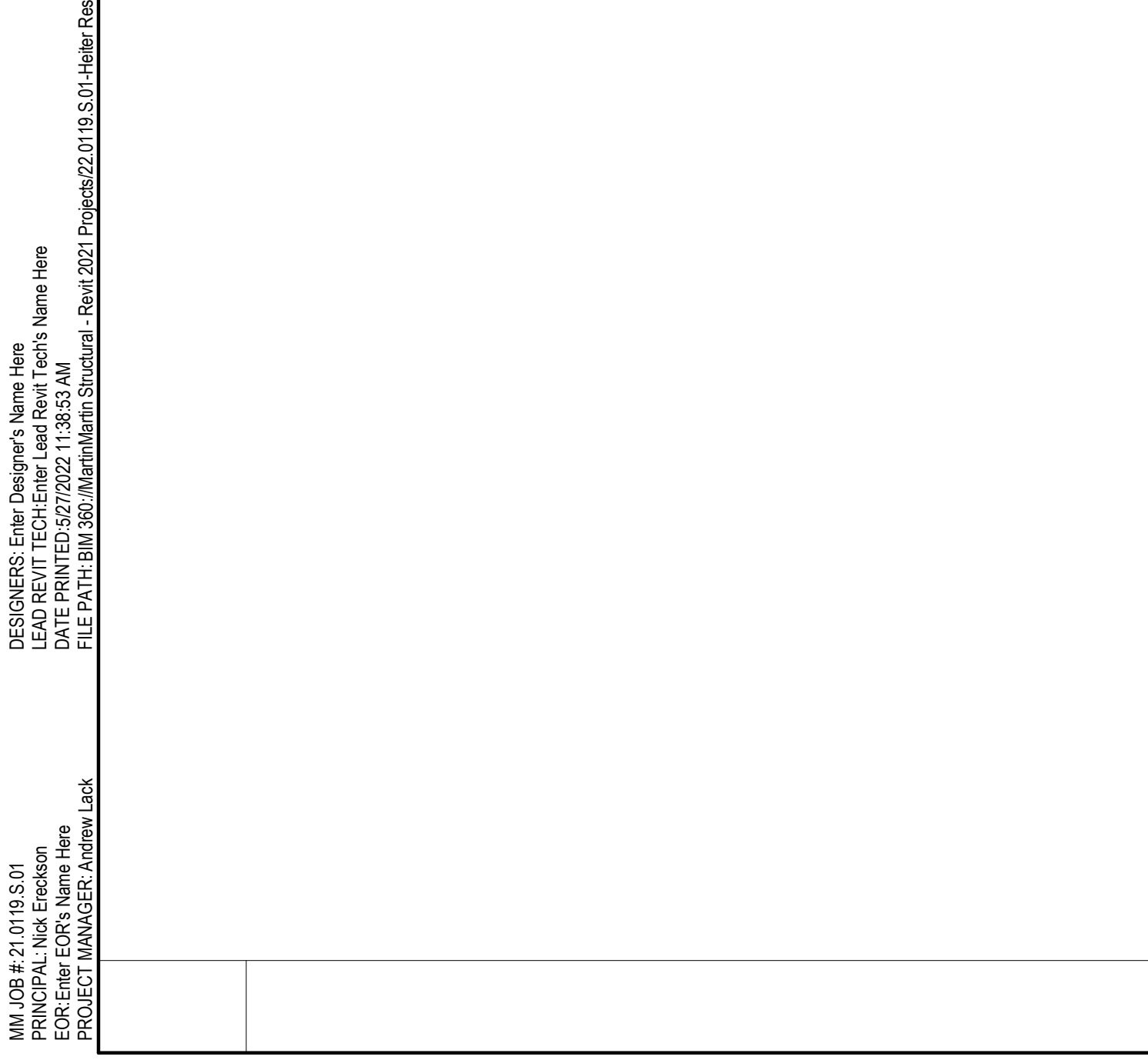
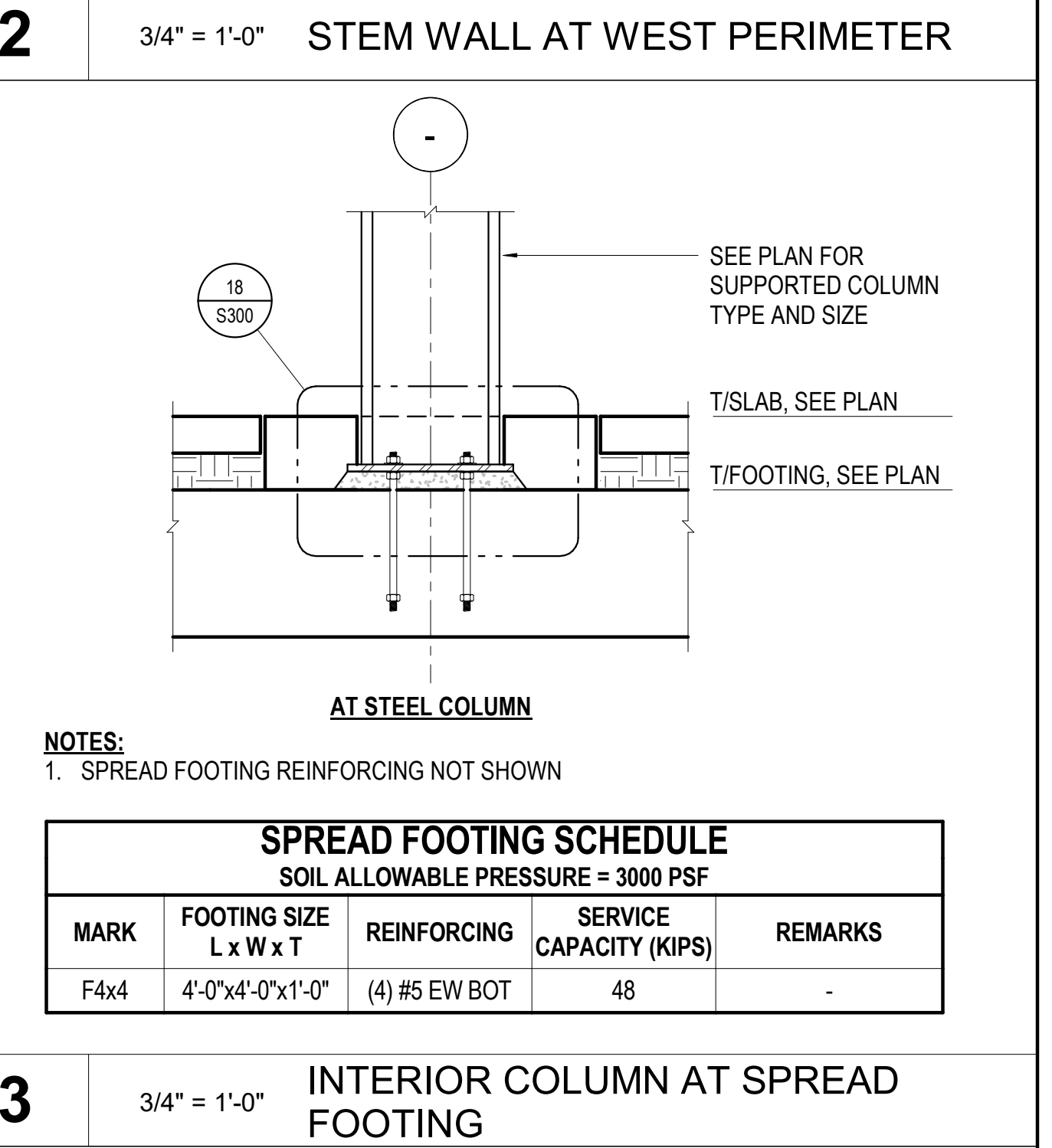
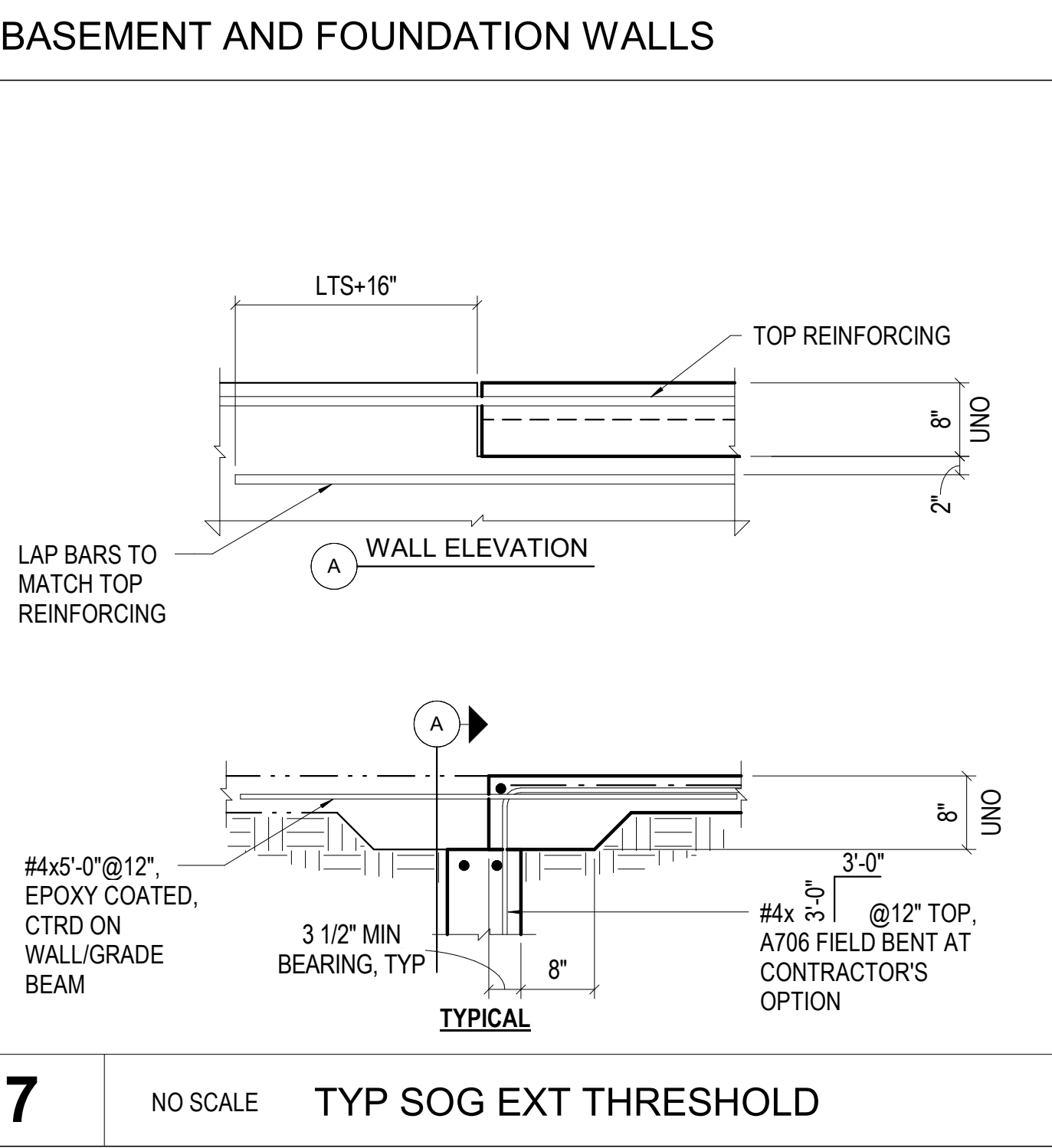
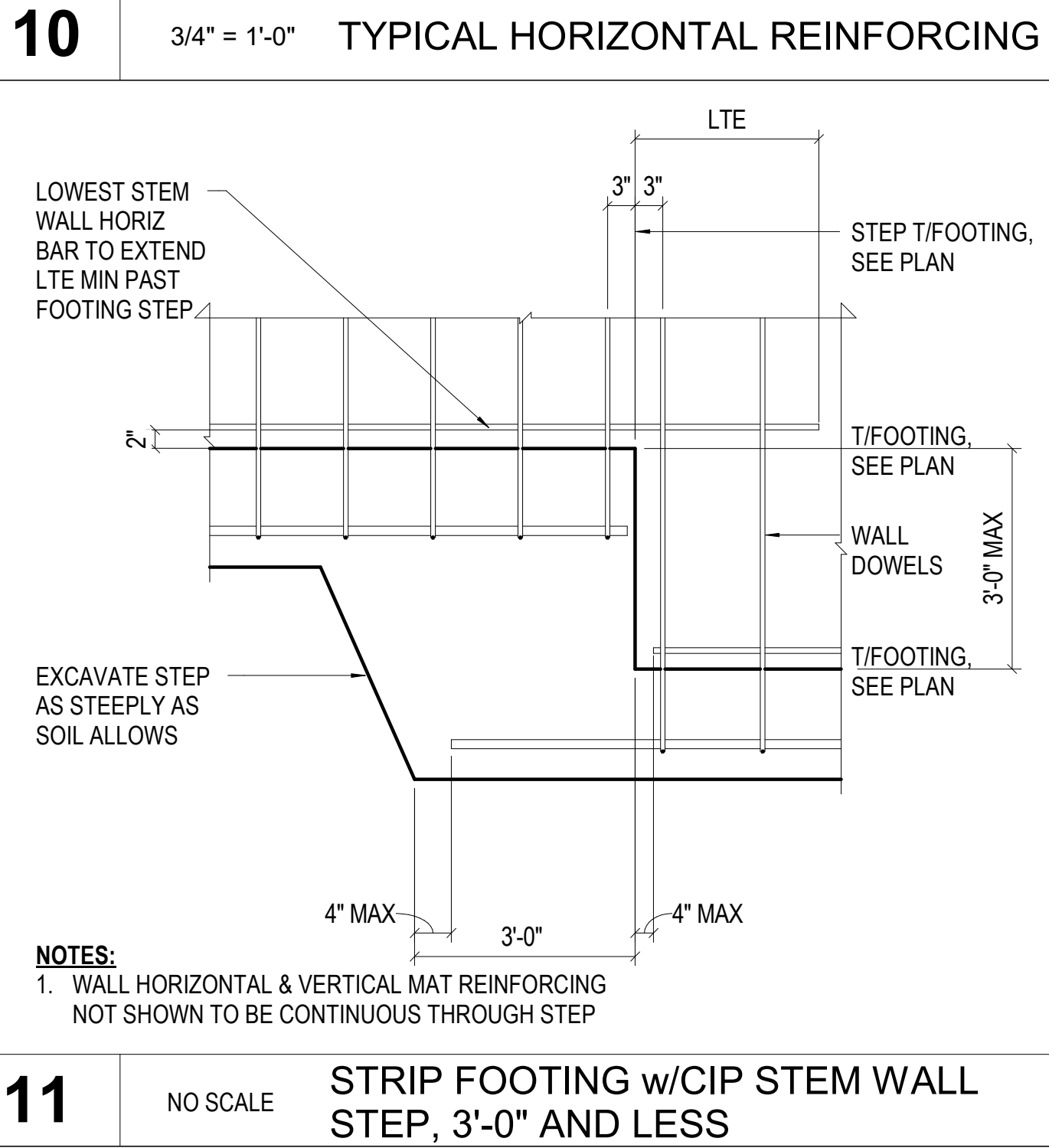
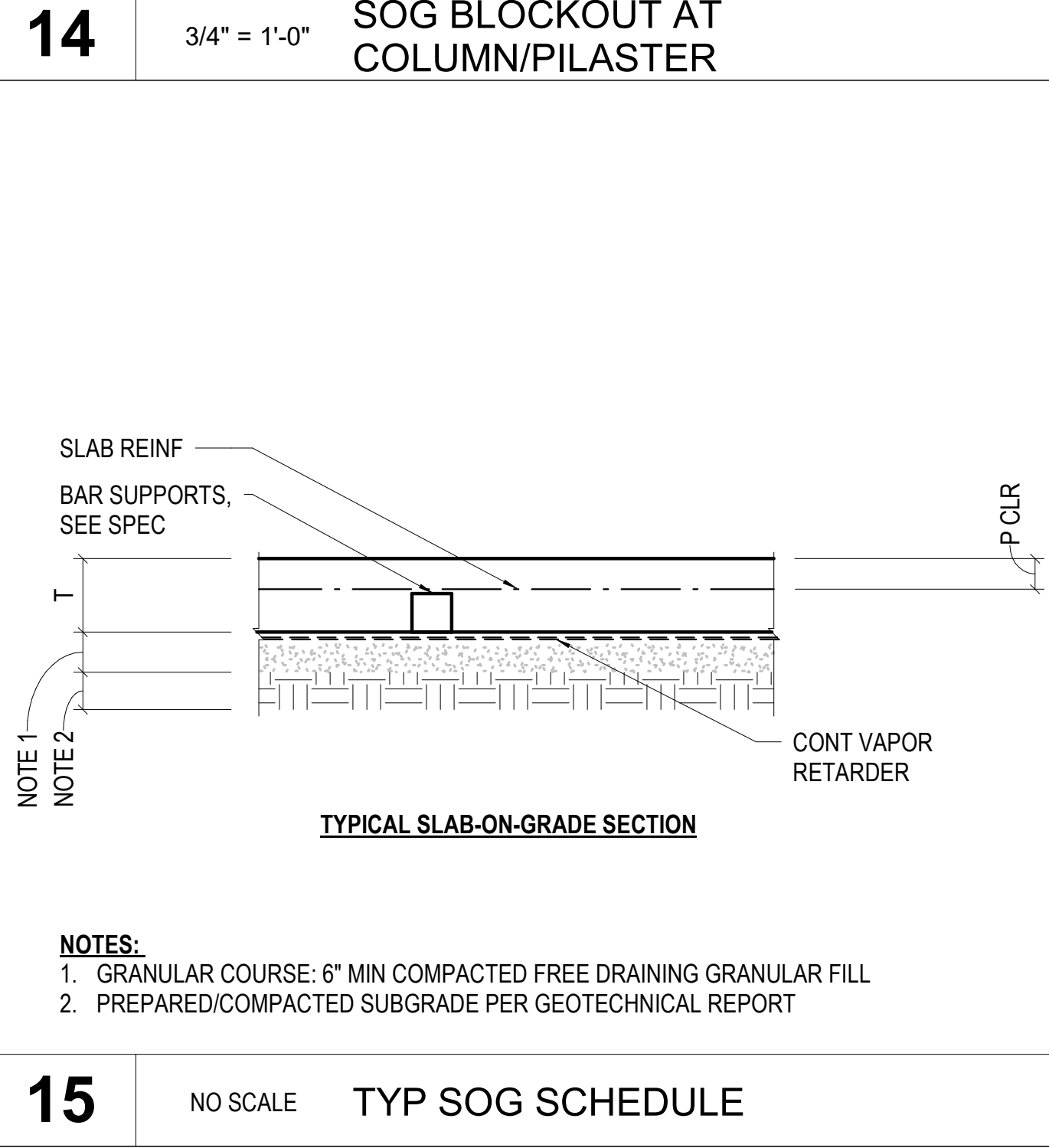
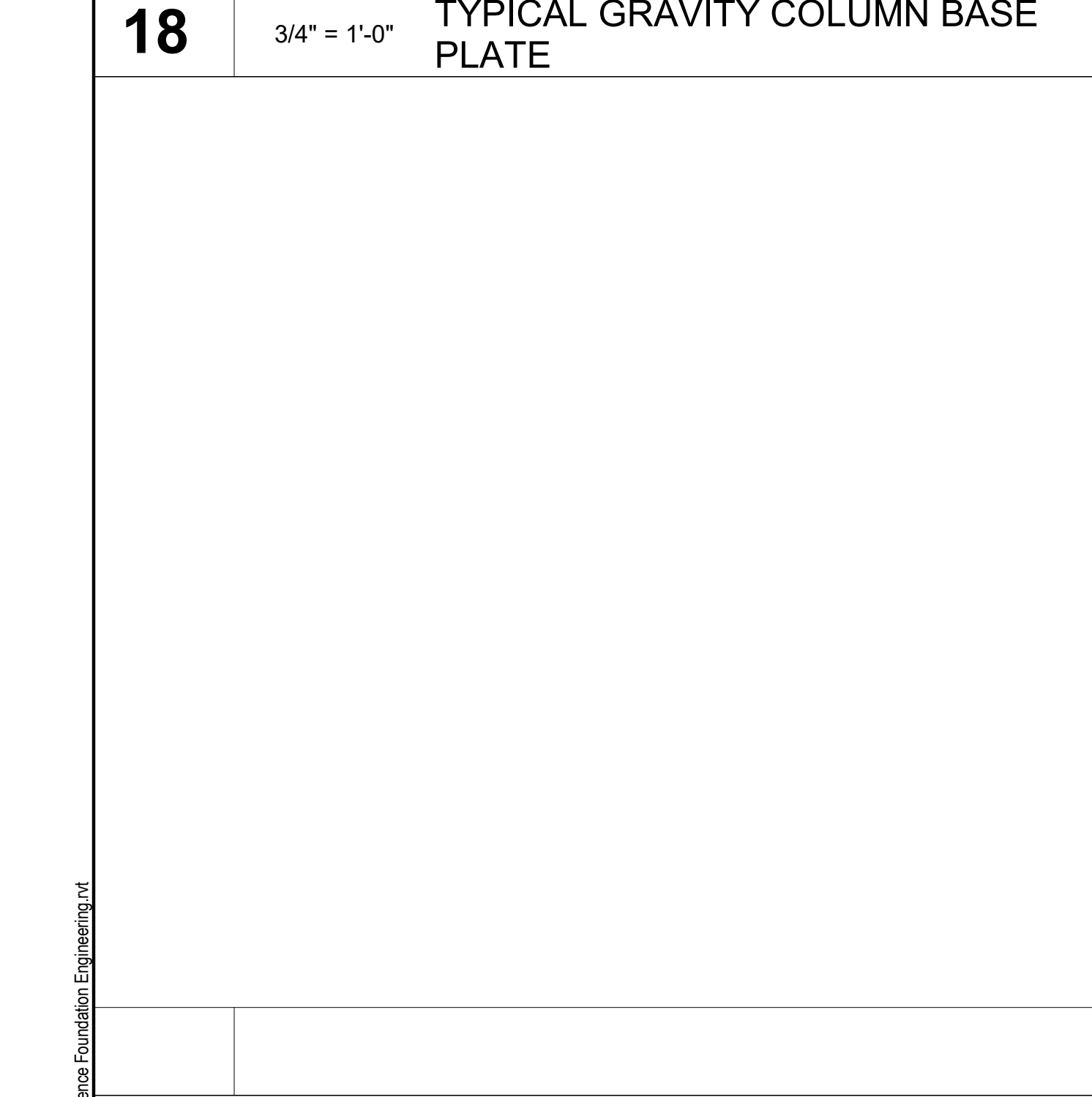
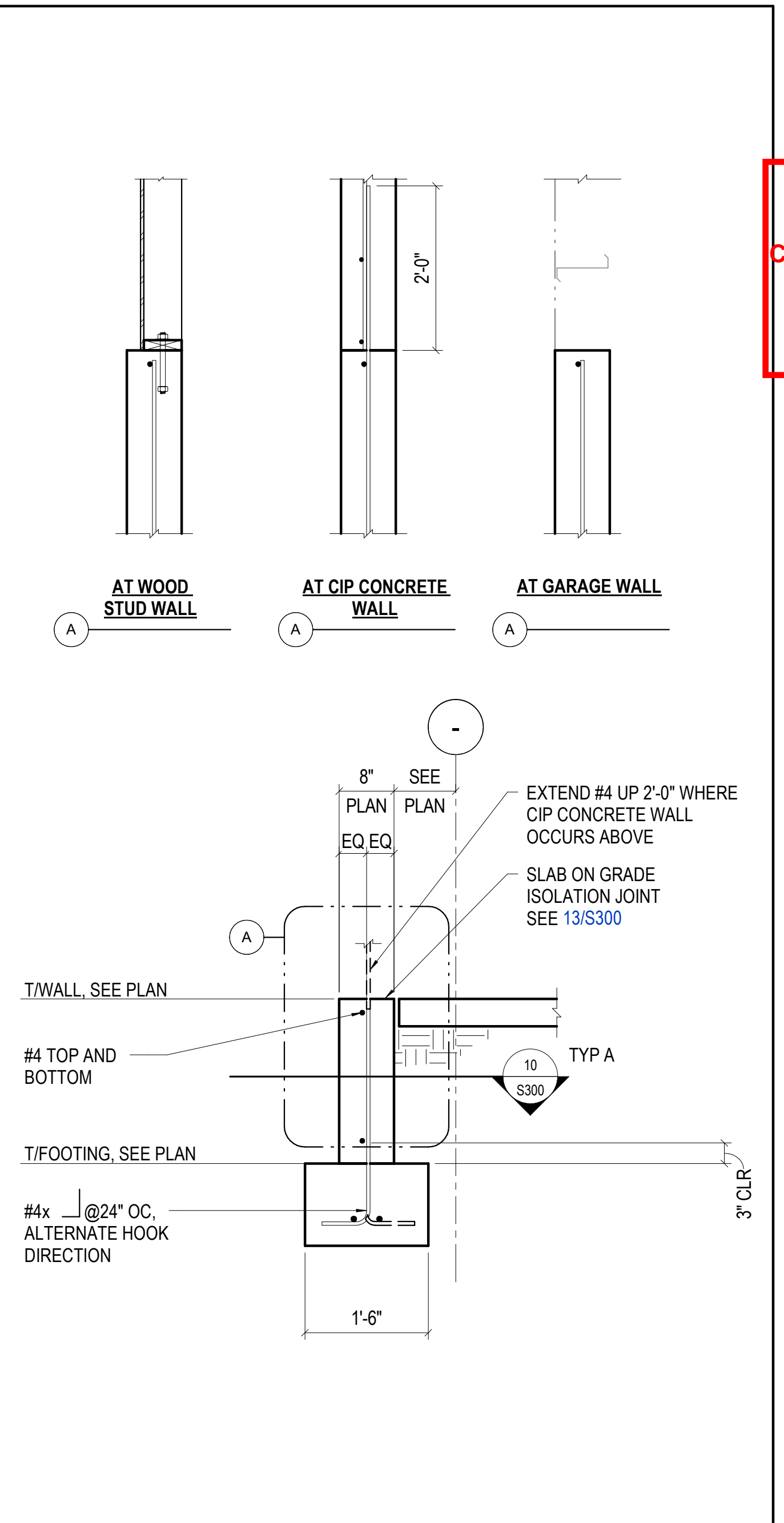
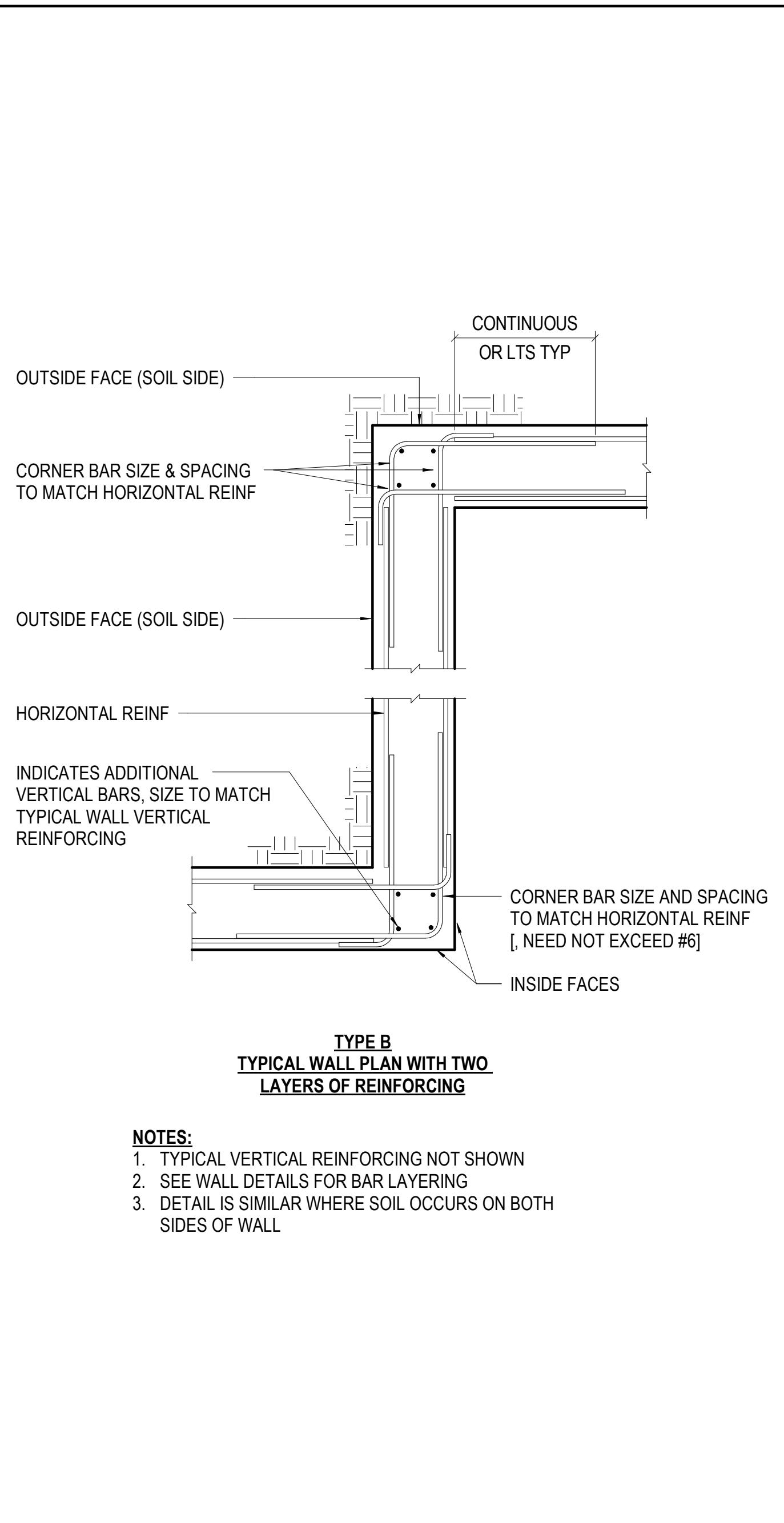
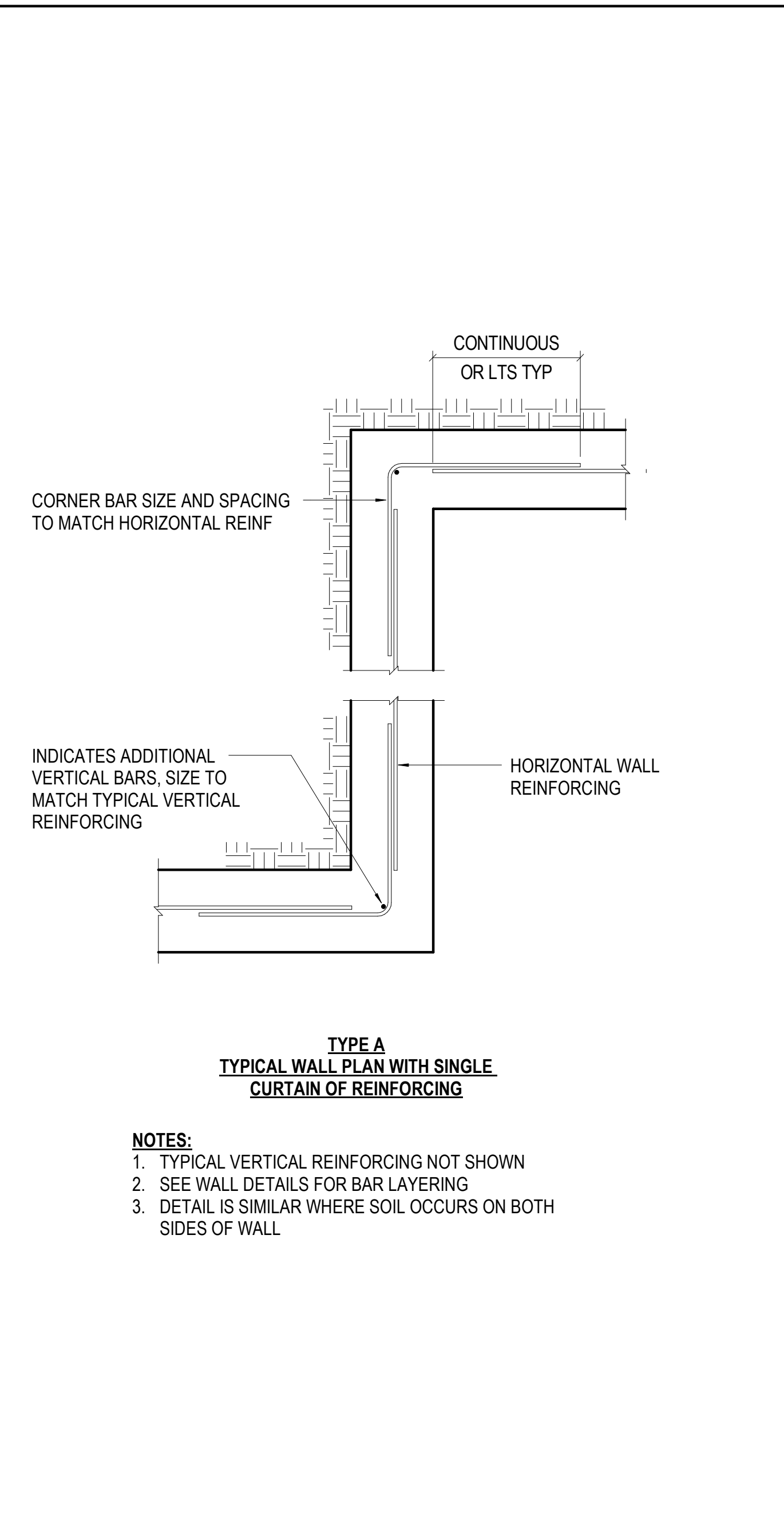
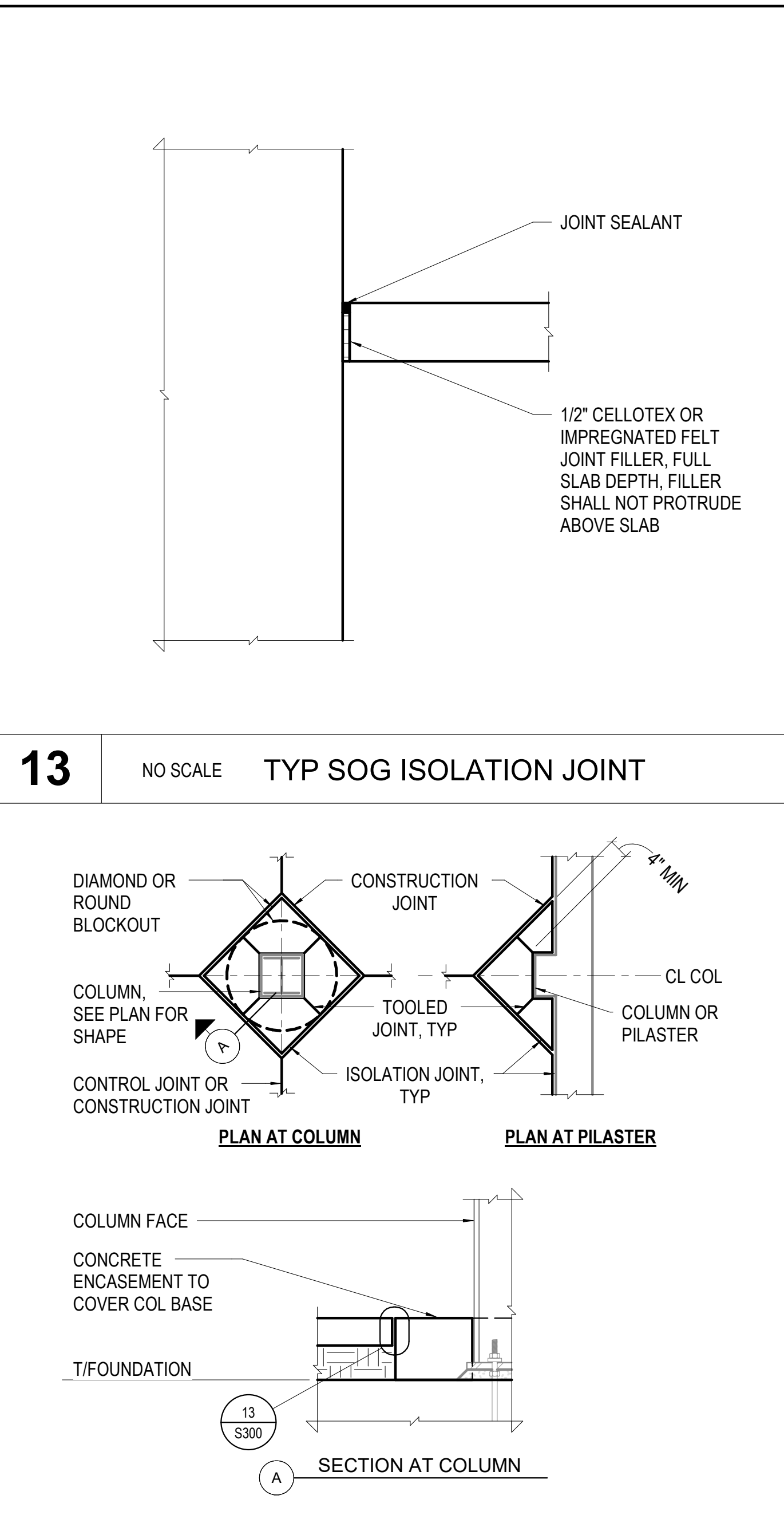
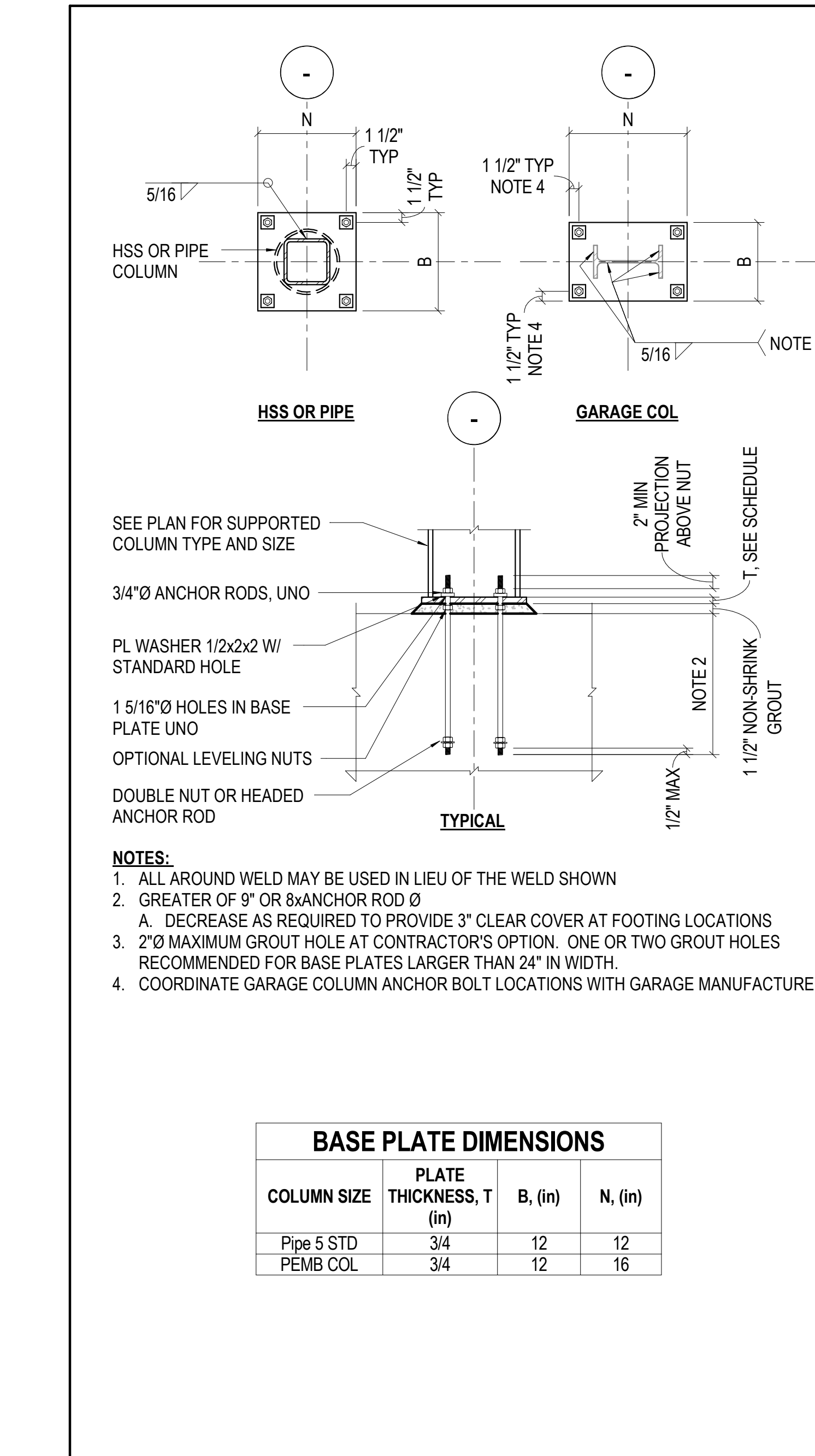
2 SOUTH ELEVATION AND WALL FRAMING NOTES
1/4" = 1'-0"



3 SOUTH ELEVATION AND WALL FRAMING NOTES
CIP CONCRETE OPTION
1/4" = 1'-0"



5 WEST ELEVATION
1/4" = 1'-0"



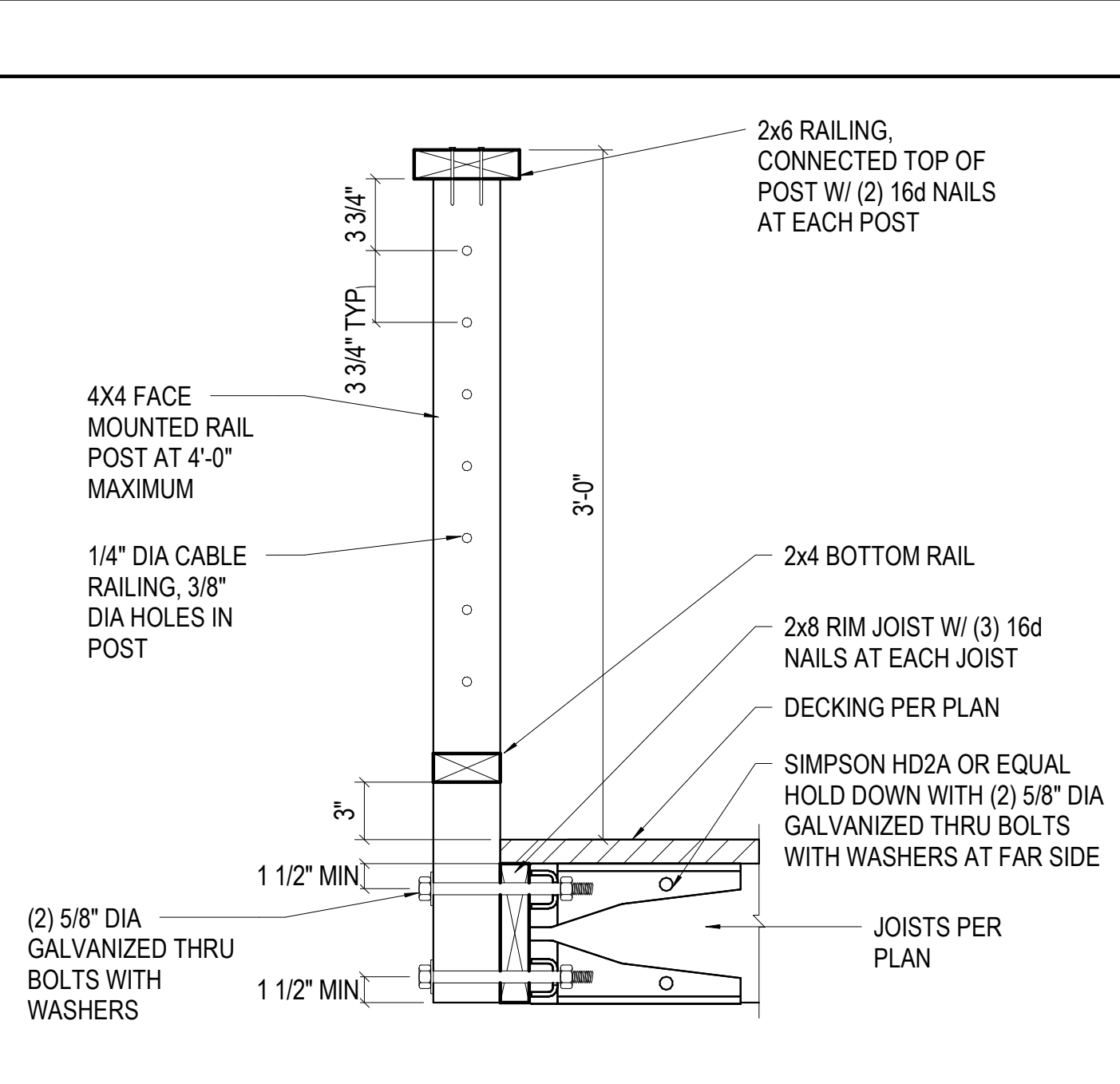
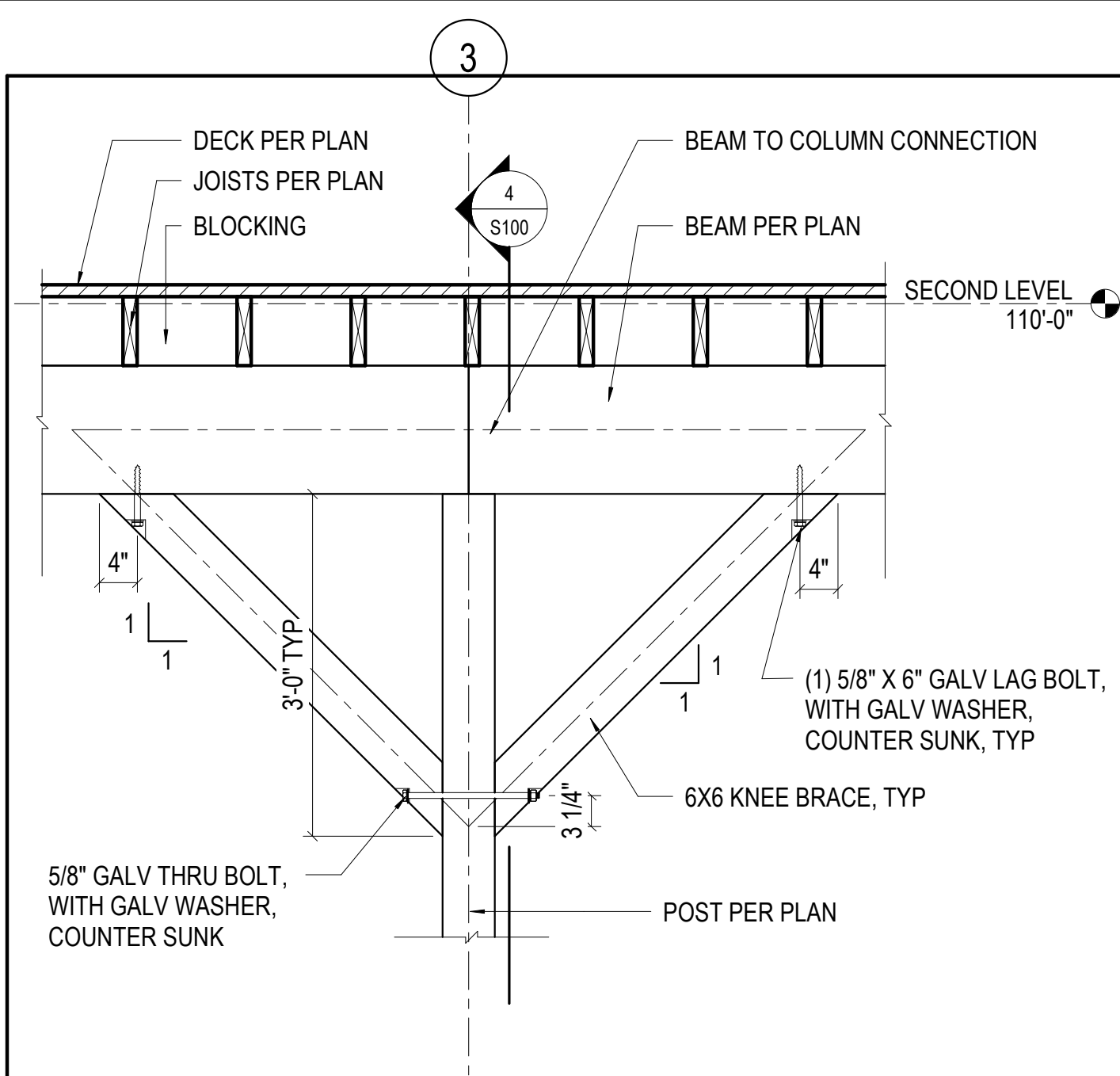
HEITER RESIDENCE FOUNDATION ENGINEERING

29550 CO RD 14D
STEAMBOAT SPRINGS, CO 80487

Reviewed for Code Compliance

06/06/2022

REVISIONS		
NO.	ISSUE	DATE
100% CONSTRUCTION DOCUMENTS		
PROJECT NO:	22.0119.S01	
DATE:	5/27/2022	
© MARTIN/MARTIN 2022		
SHEET TITLE:		
DETAILS		
SHEET NUMBER:		
S300		



WOOD HANGER SCHEDULE			
JOIST / BEAM	FACE MOUNT HANGER		
	TYPE	DOWN CAPACITY (LBS)	UPLIFT CAPACITY (LBS)
2x8	LUS26	865	1165

NOTES:

- ALL HANGERS SHALL BE MANUFACTURED BY SIMPSOM STRONG TIE, INC.

WOOD HEADER SCHEDULE - 2x6 WALLS				
HEADER MARK	HEADER SIZE	#TRIMMERS	#KINGS	
		LEVEL 1	EXTERIOR	
H(2)8	(2) 2x8	(2) 2x6	(2) 2x6	
H(3)12	(3) 2x12	(3) 2x6	(2) 2x6	
H(3)9,25L	(3) 1 3/4" x 9 1/4"	(4) 2x6	(3) 2x6	

NOTES:

1. HEADERS WITH 2 MEMBERS SHALL BE BUILT PER TYPE A REQUIREMENTS.
2. HEADERS WITH 3 MEMBERS SHALL BE BUILT PER TYPE B REQUIREMENTS.
3. HEADERS IN EXTERIOR WALL SHALL HAVE TYPE 1 NAILING BETWEEN MEMBERS PER [10/302](#) A UNO
4. PROVIDE TRIMMER AND KING STUDS AS SHOWN IN SCHEDULE UNLESS NOTED OTHERWISE ON PLAN.

EXTERIOR HEADER SPAN TABLE		
CLEAR SPAN, L	HEADER	
$L \leq 3'-0"$	H(2)8	
$3'-0" < L \leq 5'-0"$	H(3)12	
$5'-0" < L \leq 7'-0"$	H(3)9,25L	

HEADER TO JAMB CONNECTION

HEADER MARK

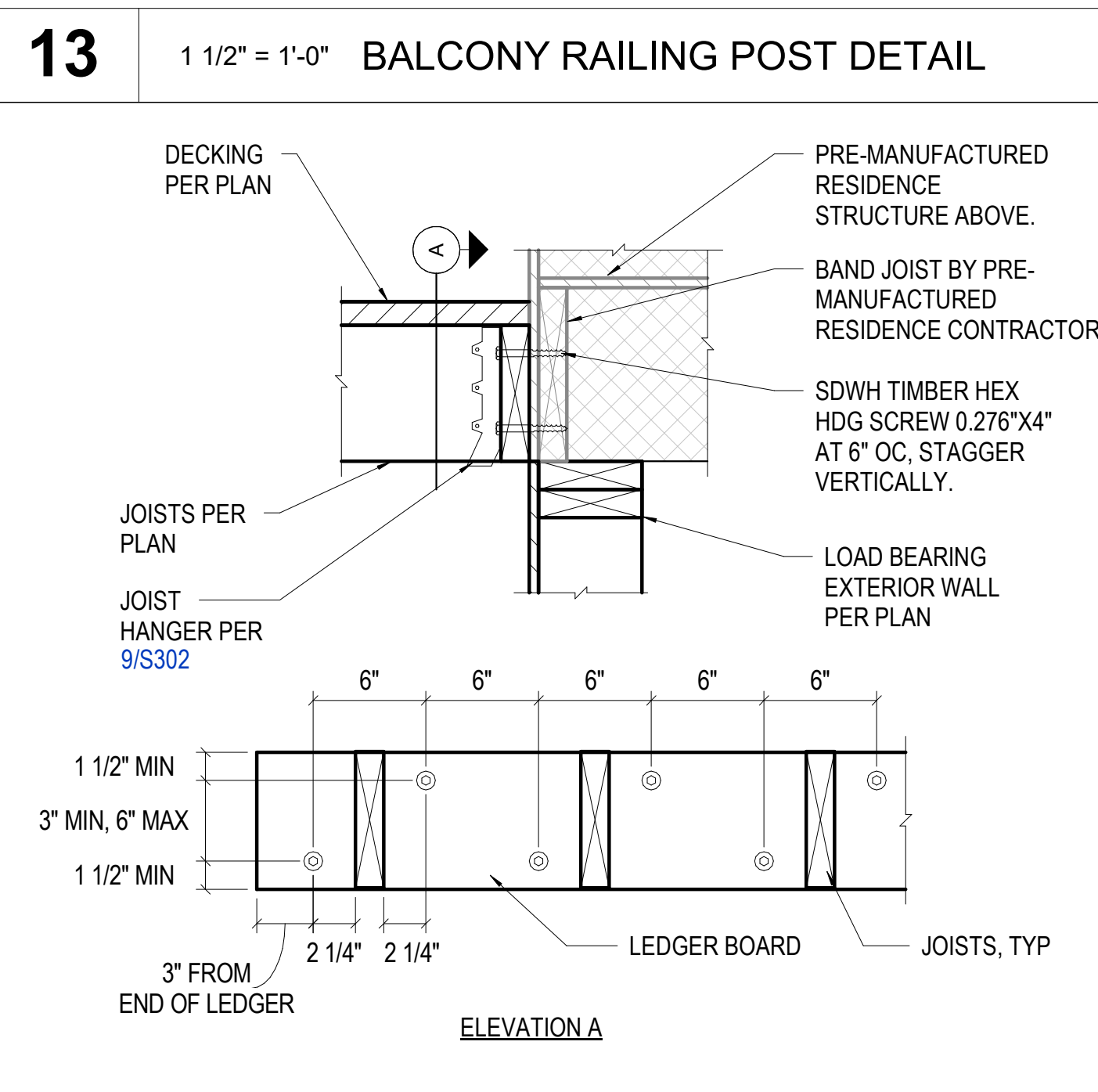
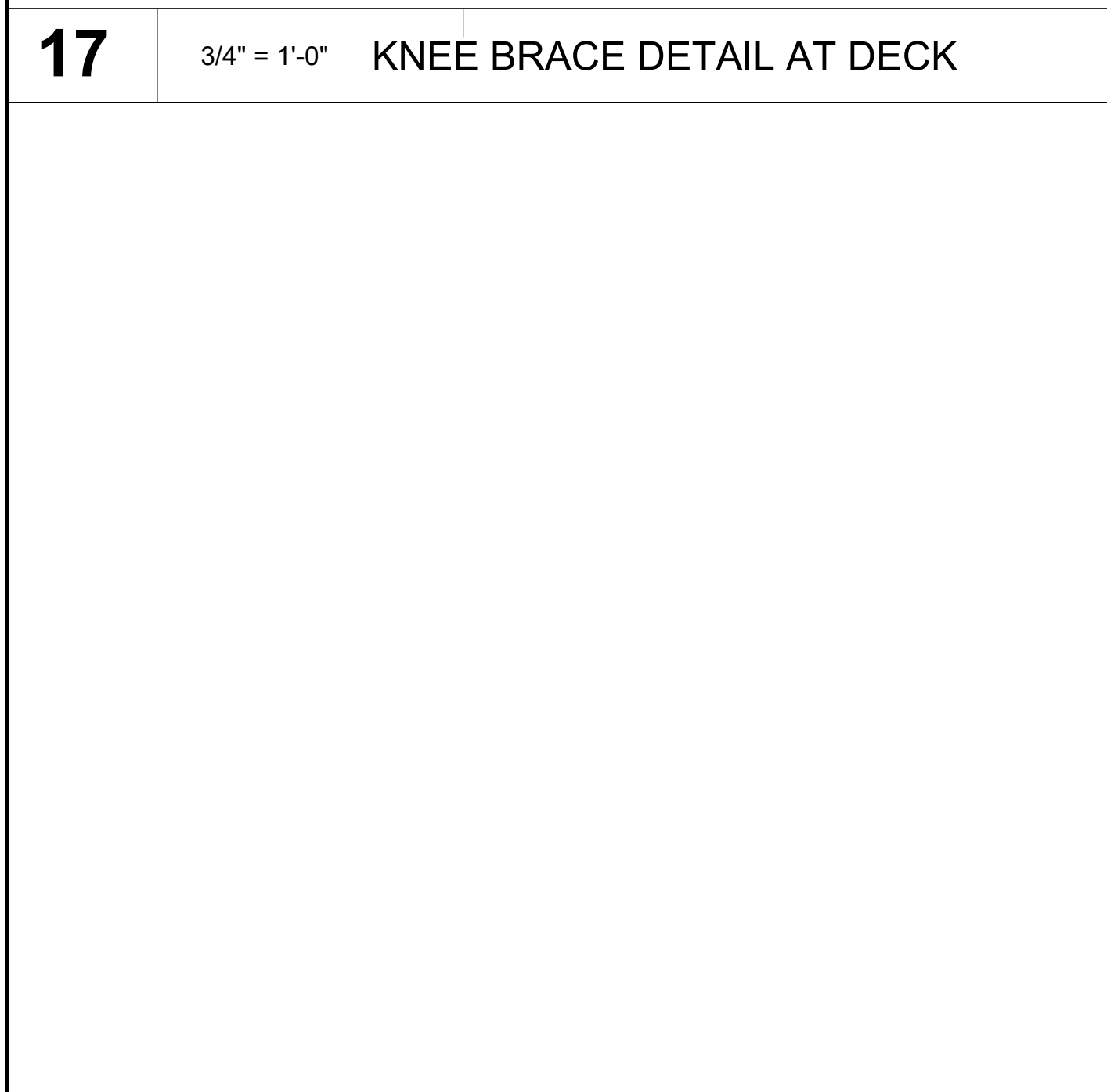
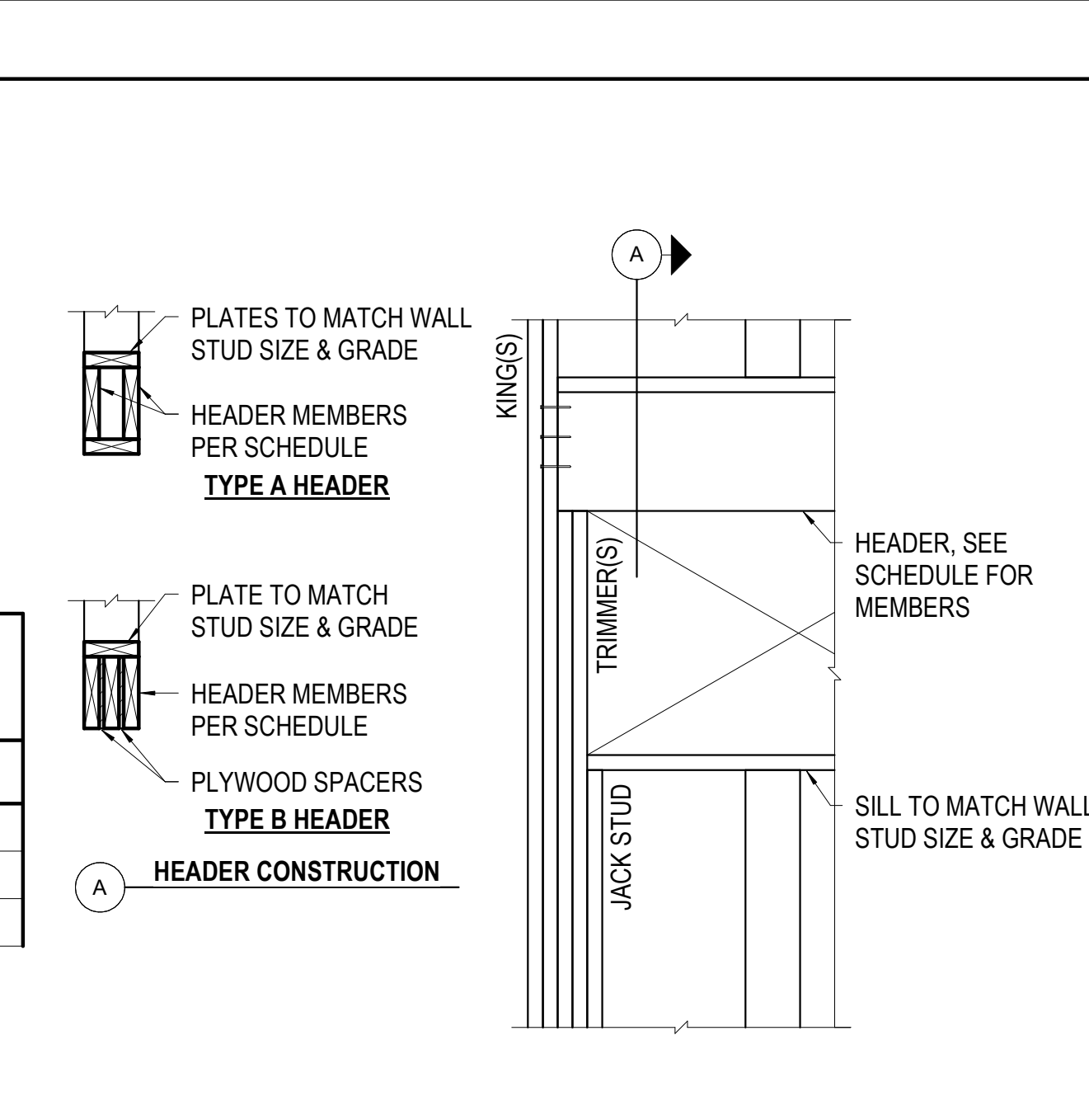
TRIMMER STUDS

KING STUDS

EXTERIOR (WHERE NOTED)

H2LA-22(E)

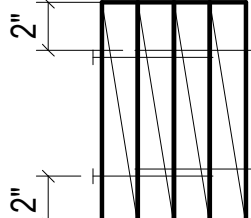
LVL (WHERE NOTED)



9

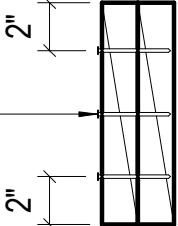
TYPICAL WOOD HANGER SCHEDULE

1" = 1'-0"

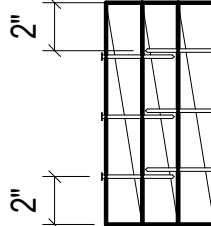


ASSEMBLY C
(4) MEMBERS

(2) ROWS SIMPSON
SDS25600 SCREWS @
12" OC EACH FACE



ASSEMBLY A
(2) MEMBERS



ASSEMBLY B
(3) MEMBERS

(3) ROWS 10d
@ 12" OC
EACH FACE

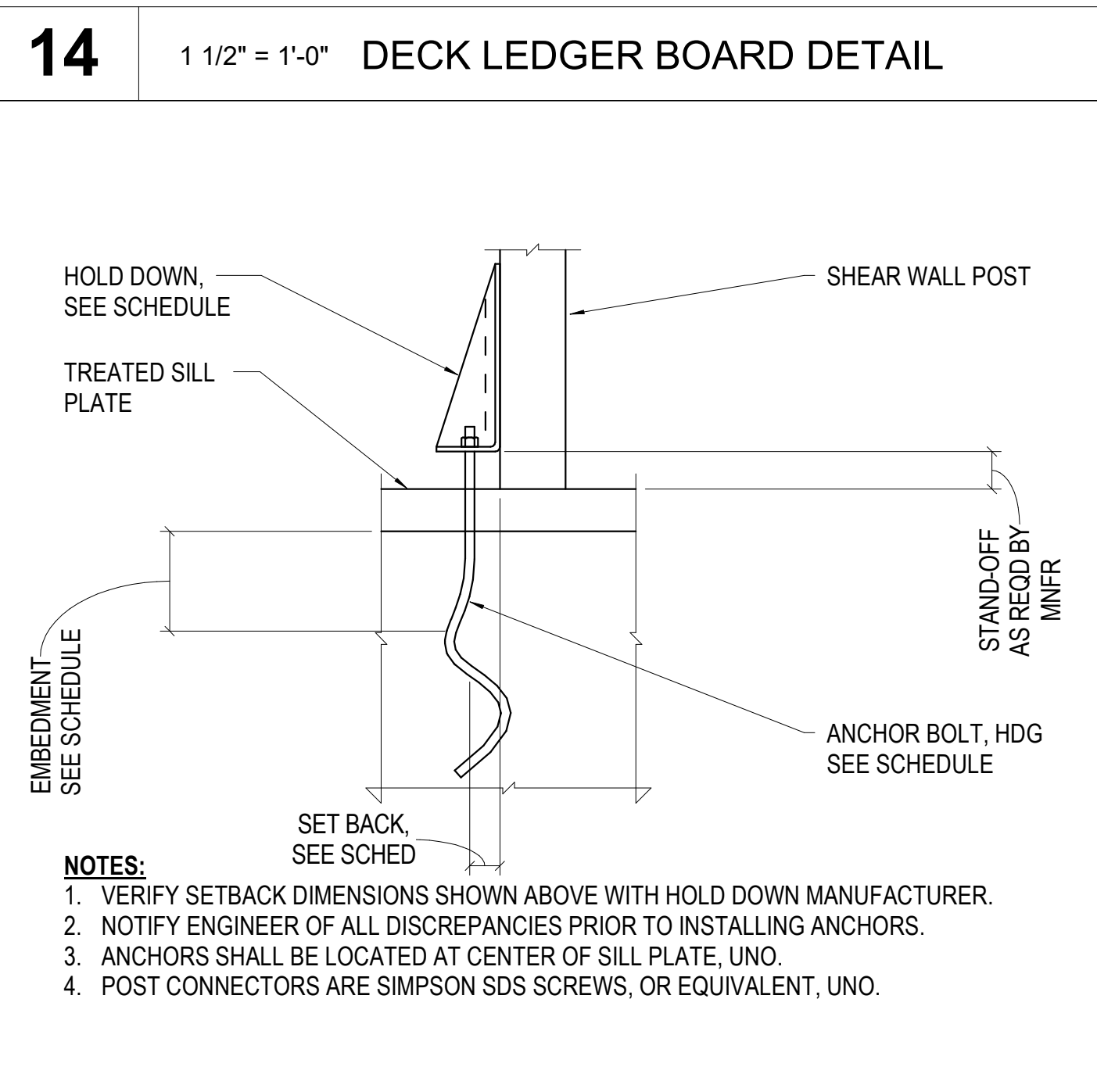
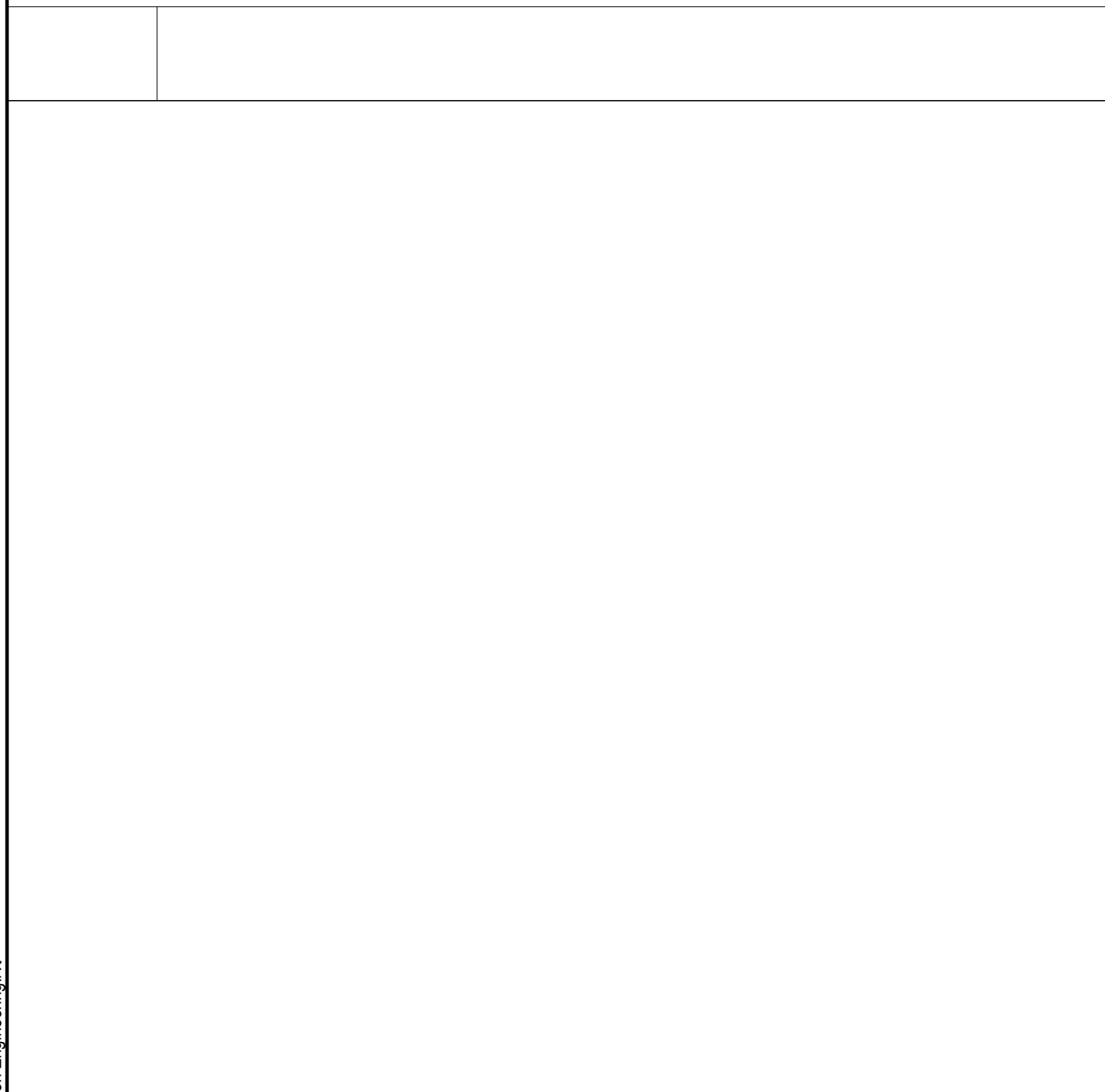
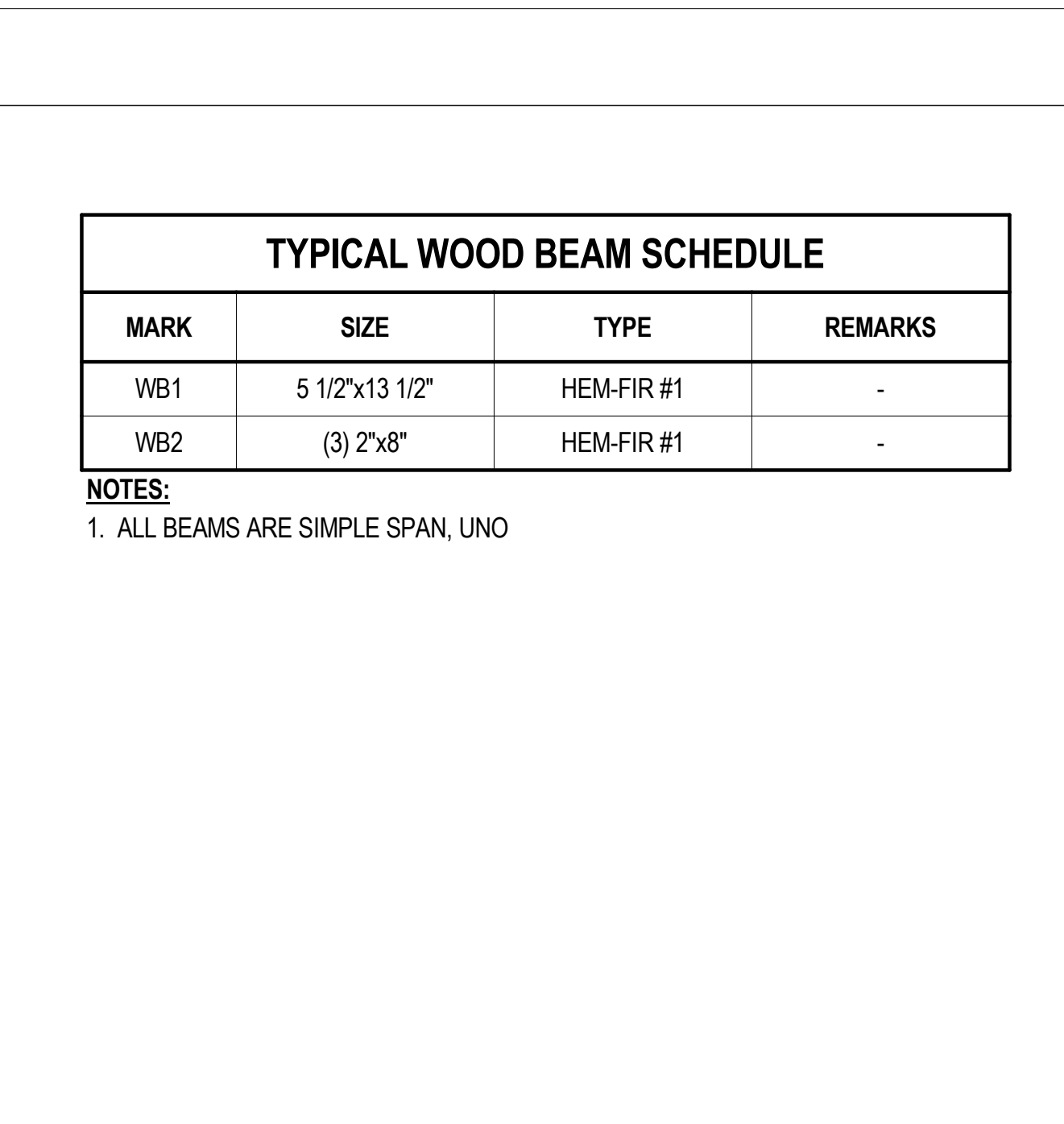
NOTES:

- 10" NOMINAL & SMALLER USE (2) ROWS OF SCREWS

5

3/4" = 1'-0" WALL HEADER CONSTRUCTION

POST AND COLUMN SCHEDULE			
MARK	SIZE	TYPE	REMARKS
WC1	6x6	HEM-FIR #1	-



10 | 1 1/2" = 1'-0"

SMALL PROJECT WOOD BEAM LAYOUT

LEDGER (ELEVATION)

7" MIN 7" MIN 8" MAX W W/5

BEAM, JOIST & RAFTER (ELEVATION)

6" MIN (CLR) CL HOLE W NOTCHING NOT PERMITTED

DOUBLE TOP PLATE (PLAN)

3" MAX 10" MIN 12GA x 3 1/2" STRAP W/ (4) 16d EA SIDE OF NOTCH TO EA PL W W/2 MAX 8" W/3

SILL PLATE (PLAN)

5" MIN 8" MAX CL HOLE W/3

STUD (ELEVATION)

8" MAX 6" MIN CLR CL HOLE W

MEMBER	MAX DIA OF HOLE
JOIST, RAFTER, BEAM, LEDGER	W/8
DBL TOP PL, SILL PL, STUD	W/3

NOTES:

1. HOLES SHALL BE DRILLED
2. PRE-DRILL CORNERS OF NOTCHES

