

MATERIAL REQUIREMENTS SUMMARY

THE STRUCTURAL REQUIREMENTS ON THIS SHEET PERTAIN TO ALL STRUCTURAL WORK ON THIS PROJECT WHETHER SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. IN THE EVENT OF CONFLICT WITH OTHER WORK SHOWN, THE REQUIREMENTS HERE SHALL GOVERN. REFER TO THE SPECIFICATIONS FOR ADDITIONAL DETAILED STRUCTURAL REQUIREMENTS. IN THE EVENT OF CONFLICT WITH THE SPECIFICATIONS THE REQUIREMENTS HERE SHALL GOVERN.

- STRUCTURAL FILLS: REFER TO GEOTECHNICAL REPORT AND SPECIFICATIONS
- REINFORCING FOR CONCRETE CONSTRUCTION:
 - ASTM 615 GRADE 60 U.O.N.; GRADE 40 REBAR MAT BE USED FOR #4 BARS OR SMALLER.
 - SMOOTH DONNELLS: ASTM A615, 60 KSI
 - WELD WIRE FABRIC: ASTM 105

- CONCRETE: 3000 PSI MINIMUM AT 28 DAYS
 - INTERIOR SLAB ON GRADE:
 - THE CONCRETE SHALL BE ENHANCED WITH TEMPERATURE/SHRINKAGE AND FLEXURAL REINFORCEMENT BY MEANS OF POLYMERIC REINFORCING FIBERS. REINFORCING FIBERS SHALL BE NO/OMESH 150 FIBERS. THE FIBERS SHALL BE PACKAGED IN DEGRADABLE BAGS OF FIVE (5) POUNDS NET CONTENTS AND MIXED INTO THE CONCRETE AT A MINIMUM PROPORTION OF 5 POUNDS (1 BAG) PER CUBIC YARD OR 0.33 PERCENT BY VOLUME (3.0 KG PER CUBIC METER).
 - ALL FIBROUS CONCRETE SHALL CONFORM TO ASTM C 1116 AND PRODUCE AN AVERAGE RESIDUAL STRENGTH (AR5) OF NO LESS THAN 215 PSI FROM A TEST SET OF 5 BEAMS IN ACCORDANCE WITH ASTM C 1391 TEST METHOD FOR DETERMINING AVERAGE RESIDUAL STRENGTH OF FIBER REINFORCED CONCRETE.
 - NO/OMESH 150 FIBERS SHALL BE ADDED TO THE CONC. AT THE BATCH PLANT OR AT THE JOB SITE AT THE OWNER'S OPTION. FIBER SUPPLIER SHALL PROVIDE INSTALLATION AND FINISHING GUIDELINES.
 - A SUBMITTAL PACKAGE FOR FIBERS MUST ACCOMPANY THE CONC. MIX DESIGN FOR APPROVAL BY THE ENGINEER BEFORE ANY CONC. CAN BE PLACED. THE FIBER SUBMITTAL PACKAGE SHALL CONTAIN: PRODUCT LITERATURE DESCRIBING A BLEND OF MACRO-FILAMENTS & COLLATED-FIBRILLATED FIBERS ASSERTION THAT FIBERS COMPLY WITH ASTM C1116 TYPE II FIBERS IN SECTION 4.1.3 VERIFICATION THAT THE FIBROUS REINFORCED CONC. IS ADEQUATE FOR THE DESIGN LIVE (TRUCK) LOADING & CONSTRUCTION LOADS.
 - FIBROUS CONCRETE REINFORCEMENT SHALL BE MANUFACTURED BY PROPEX CONCRETE SYSTEMS, CHATTANOOGA, TN, TELEPHONE 423-292-3000
 - STANDARD ACI PROCEDURES FOR PLACING, FINISHING AND CURING SHALL BE FOLLOWED.

- WOOD FRAMING
 - SAWN LUMBER GRADES - ALL DOUGLAS FIR U.O.N., 19% MAX MC WHEN INSTALLED. JOISTS AND RAFTERS: NO. 2, S-DRY. 4x AND 6x POSTS, BEAMS, AND HEADERS: NO. 1 STUDS: CONSTRUCTION GRADE FOR 2x4 & NO. 2 FOR 2x6 AND LARGER, S-DRY. PLATES, BLOCKS, LIGHT FRAMING AND MISG.: NO. 2, S-DRY.
 - ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY TO BE DECAY RESISTANT OR TREATED. MAY BE HEM FIR OR DF, S-DRY.

STRUCTURAL SHEATHING:
 ROOFS: CD EXPOSURE 1, 5/8" (14/32") 40/20 SPAN APA RATED T&G OR BLOCKING OR H-CLIPS AT UNSUPPORTED EDGES
 WALLS: 1/2" (19/32 IN.), CD EXPOSURE 1 APA SPAN RATED 32/16, 4 OR 5 PLY.

WOOD FLANGE/STEEL WEB JOIST: RED-L BY REDBUILT OR APPROVED.
 SELF-DRILLING WOOD SCREWS: SIMPSON STRONG-TIE SDS SERIES OR APPROVED.
 WOOD CONNECTION BOLTS: ASTM A307 MACHINE BOLTS.
 ANCHOR BOLTS: ASTM A307 GRADE A OR B
 FRAMING HARDWARE: AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY OR APPROVED. SIMPSON DESIGNATIONS ARE USED ON THE DRAWINGS.
 NAILS: COMMON WIRE GAGE U.O.N., SEE SCHED. 10/55/1, PREDRILL HOLES IF REQUIRED TO PREVENT SPLITTING. USE #40 GALVANIZED NAILS AT EXTERIOR SHEATHINGS. USE HOT-DIPPED GALVANIZED NAILS (#10S) FOR NAILING OF OR TO PRESERVATIVE TREATED LUMBER. (NOT REQUIRED IF TREATED WITH BORRATE)

- GLUE-LAMINATED BEAMS: DOUGLAS FIR, 24F-V4 FOR SIMPLE SPANS AND 24F-V3 FOR CANTILEVERED AND CONTINUOUS BEAMS. FABRICATED WITH EXTERIOR GLUE, PROVIDE 0' CAMBER, U.O.N.

- STEEL:
 - STRUCTURAL STEEL & MISG METAL FABRICATIONS SHALL COMPLY WITH AISC MANUAL OF STEEL CONSTRUCTION & CODE OF STANDARD PRACTICE (CURRENT EDITIONS).
 - HOLLOW STEEL SECTIONS (#56). ASTM A500, GRADE B
 - PIPE: A53 TYPE E, GRADE B
 - PLATES: A56
 - ANCHOR BOLTS AND MACHINE BOLTS: A307, U.O.N.
 - ALL-THREAD ROD: A307
- MISCELLANEOUS
 - EXPANSION ANCHORS: HILTI TZ (AT CONCRETE) OR APPROVED
 - EPOXY ADHESIVE: SIMPSON SET-XP. USE APPROVED ACRYLIC ADHESIVE IN LIEU OF 2-PART EPOXY IN GOLD WEATHER APPLICATIONS.
 - NON-SHRINK GROUT: FLOXABLE WITH A MINIMUM 7-DAY STRENGTH OF 5000 PSI, 28 DAY STRENGTH OF 1000 PSI, MASTER BUILDERS OR APPROVED.
 - CONCRETE SCREWS: HILTI KWIK-CON II OR APPROVED
 - CONCRETE BOLTS: SIMPSON TITEN HD OR APPROVED
 - SHOT PINS: HILTI X-DI1 POWDER ACTUATED FASTENER OR APPROVED

STRUCTURAL SHOP DRAWINGS / SUBMITTALS

- SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS OF WORK:
- CONCRETE & GROUT MIX DESIGNS
 - REINFORCING FOR CONCRETE CONSTRUCTION
 - MISG. STEEL FABRICATIONS/FRAMING CONNECTIONS
 - WOOD FLANGE/STEEL WEB JOIST FRAMING, INCL. ENGINEERED LUMBER MEMBERS

TESTING, SPECIAL INSPECTION AND OBSERVATION

- THE FOLLOWING WORK IS REQUIRED IF MARKED TO BE TESTED, SPECIAL INSPECTED, OR STRUCTURALLY OBSERVED PER 055G CHAPTER 17 REQUIREMENTS. TESTING SHALL BE MADE IN ACCORDANCE WITH THE CURRENT CODE BY AN APPROVED SPECIAL TESTING LAB, SPECIAL INSPECTOR, AND OR BY AN ENGINEER RETAINED BY THE OWNER.
- OBSERVATION SHALL BE DONE BY THE ENGINEER OF RECORD, EXCEPT PER NOTE 3. STRUCTURAL OBSERVATION BY THE ENGINEER OF RECORD WILL BE PERFORMED AT ALL KEY PHASES OF THE STRUCTURAL WORK.
- COMPACTION TESTING, & GRADING OPERATIONS SHALL BE OBSERVED BY A GEOTECHNICAL ENGINEER IF COMPACTED FILL IS REQUIRED.
- INSPECTION MAY BE PERIODIC.

ITEM	TO BE PROVIDED IF MARKED (1)		
	TESTING	SPECIAL INSPECTION	ENGINEERS OBSERVATION (2)
STRUCTURAL FILLS COMPACTION (3)	X (3)		X (3)
REINFORCING FOR CONCRETE (EXCEPT NON-STRUCTURAL CURBS, PADS AND SITERCKR)			X
ANCHOR BOLT PLACEMENT			X
CONCRETE PLACEMENT (EXCEPT NON-STRUCTURAL CURBS AND SITERCKR)		X	
CONCRETE STRENGTH	X		
CONCRETE ADHESIVE (EPOXY) ANCHORS		X (4)	
EXPANSION ANCHORS		X (4)	
SHEARWALL AND DIAPHRAGM SHEATHING NAILING			X
SHEARWALL AND DIAPHRAGM STRAPS, CLIPS AND HOLDINGS			X
STRUCTURAL WELDING (IBC TABLE 1704.3)		X (4)	

BASIS OF DESIGN

APPLICABLE CODE: 2014 OREGON STRUCTURAL SPECIALTY CODE (2012 INTERNATIONAL BUILDING CODE WITH 2014 055G AMMENDMENTS)

RISK CATEGORY: II

VERTICAL LOADS:
 ROOFS:
 LIVE LOAD 20 psf

SNOW LOAD
 Fg = 15 psf
 IMPORTANCE FACTOR: Is = 1.1
 SNOW EXPOSURE FACTOR, Ce = 1.0
 THERMAL FACTOR, Ct = 1.1
 Pf = 19 psf PLUS DRIFT SLIDING AND UNBALANCED
 SNOW LOAD AS REQD PER 055G 2014/ASCE 7-10
 Pf,min = 20 psf

LATERAL LOADS:
 WIND: BASIC WIND SPEED: 120 mph (3 SECOND GUST)
 EXPOSURE CATEGORY: B
 INTERNAL PRESSURE COEFFICIENT = 0.18 (FULLY ENCLOSED)

SEISMIC: IMPORTANCE FACTOR: Ie = 1.0
 MAPPED SPECTRAL ACCELERATIONS: Ss = 0.76g, S1 = 0.40g
 SITE CLASS: D
 SPECTRAL RESPONSE COEFFICIENTS: Sds = 0.61g, Sd1 = 0.43g
 BASIC SEISMIC FORCE RESISTING SYSTEMS:
 LIGHT-FRAME SHEAR WALLS

RESPONSE MODIFICATION FACTOR: R = 6.5

SEISMIC DESIGN CATEGORY: D
 SEISMIC RESPONSE COEFFICIENT: Cs = 0.075g (STRENGTH LEVEL)
 Cs = 0.065 (ASD)

THE EQUIVALENT STATIC FORCE PROCEDURES OF THE 2014 055G AND ASCE-7 (2010 EDITION) HAVE BEEN USED TO DESIGN THE PRIMARY SEISMIC FORCE ELEMENTS OF THE BUILDINGS.

GEOTECHNICAL CRITERIA:
 FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT PREPARED FOR UO CENTRAL KITCHEN AND WOODSHOP BY GR1 DATED JUNE 11, 2013.

ALLOWABLE SOIL BEARING PRESSURE = 2000psf (DEAD PLUS LIVE LOADS)
 = 3000psf (SHORT TERM LOADS)

SYMBOLS

	DETAIL NUMBER
	SHEET NUMBER
	BUILDING SECTION OR ELEVATION NUMBER
	FRAMING MEMBER
	DIAGRAMMATIC EXTENT OF FRAMING
	CHANGE IN FRAMING ELEVATION
	ROOF/FLOOR/WALL OPENING
	UNDISTURBED NATIVE GRADE OR SOILS IN SECTION
	STRUCTURAL FILL IN SECTION PER SPECIFICATIONS
	REINFORCED CONCRETE CONSTRUCTION IN SECTION
	REFERENCE ELEVATION PER PLANS U.O.N.
	REVISION REFERENCE (APPEARS IN ALL REVISIONS TO DATE)
	REVISION CLOUD, APPEARS ONLY ON MOST CURRENT REVISIONS
	DENOTES NON-STRUCTURAL WALLS BELOW
	DENOTES STRUCTURAL WALLS BELOW
	DENOTES NON-STRUCTURAL WALLS ABOVE
	DENOTES STRUCTURAL WALLS ABOVE

GENERAL STRUCTURAL NOTES

- DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION INCLUDING BUT NOT LIMITED TO SHORING & TEMPORARY BRACING. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO INSURE SAFETY OF ALL PERSONS AND STRUCTURES AT THE SITE AND ADJACENT TO THE SITE. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT, ENGINEER OR OTHER PERSONNEL SHALL NOT RELIEVE THE CONTRACTOR OF SUCH RESPONSIBILITY.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND SHALL REPORT ANY DISCREPANCIES.
- OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DWS, NOTES, AND DETAILS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND RESOLVED BEFORE PROCEEDING WITH THE WORK.
- DO NOT USE SCALED DIMENSIONS, USE WRITTEN DIMENSIONS. WHERE NO DIMENSION IS PROVIDED, CONSULT THE ARCHITECT FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- IF CERTAIN FEATURES ARE NOT FULLY SHOWN OR CALLED FOR ON THE DRAWINGS OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE CALLED FOR OR SHOWN. ALL WORK SHALL COMPLY WITH 055G 2010 (EFFECTIVE DATE 09/2010).
- DO NOT COMMENCE WORK UNTIL PERMITS/APPROVALS HAVE BEEN OBTAINED.
- REFER TO THE PROJECT SPECIFICATIONS FOR DETAILED AND ADDITIONAL INFORMATION AND REQUIREMENTS NOT NOTED ON THIS SHEET.

STRUCTURAL SHEET INDEX

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S1.3	TYPICAL CONCRETE AND FOUNDATION DETAILS
S1.4	TYPICAL WOOD FRAMING DETAILS
S1.5	TYPICAL WOOD FRAMING DETAILS
S1.6	ROOF FRAMING DETAILS

STRUCTURAL SHEETS ABBREVIATIONS

A	AND	LSL	LAMINATED STRAND LUMBER
AT	AT	LONG.	LONGITUDINAL
A.B.	ANCHOR BOLT	LSH	LONG SLOTTED HOLE
ALT.	ALTERNATE	LVL	LAMINATED VENEER LUMBER
ARCH.	ARCHITECTURAL	MFR.	MANUFACTURER
BLDG.	BUILDING	M.B.	MACHINE BOLTS
BLKG.	BLOCKING	MAX.	MAXIMUM
BD	BOARD	MTL.	METAL
BM	BEAM	MIN.	MINIMUM
BOT.	BOTTOM	MISG.	MISCELLANEOUS
B.O.	BOTTOM OF	N	NORTH
BETWN	BETWEEN	N.S.	NEAR SIDE
C.	CENTER LINE	NTS.	NOT TO SCALE
C.B.	COLUMN BASE	O.C.	ON CENTER
C.I.P.	CAST-IN-PLACE	OP.	OPENING
C.J.	CONTROL JOINT	OH.	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	R.	ROUGH SAWN
COL.	COLUMN	PL	STEEL PLATE
CONT.	CONTINUOUS	PERP.	PERPENDICULAR
C.P.	CONTROL POINT	PSL	PARALLEL STRAND LUMBER
DSL	DOUBLE	P.T.	PRESSURE TREATED
DET.	DETAIL	R.C.J.	ROUGHENED CONSTRUCTION JOINT
DM.	DIMENSION	REIN.	REINFORCEMENT
DWS.	DRAWING	REQ'D	REQUIRED
E	EAST	R.S.	ROUGH SAWN
(E)	EXISTING	S	SOUTH
EA	EACH	S.A.D.	SEE ARCHITECTURAL DRAWINGS
EL.	ELEVATION	SCHED.	SCHEDULE
EMBED.	EMBEDMENT	SM.	SIMILAR
EN.	EDGE NAIL	S.O.S.	SLAB-ON-GRADE
E.N.	EACH WAY	SSH	SHORT SLOTTED HOLE
EXPANG.	EXPANSION ANCHOR	SPEC.	SPECIFICATION
EXT.	EXTERIOR	SQ.	SQUARE
F.S.	FAR SIDE	SS.	STAINLESS STEEL
FDN.	FOUNDATION	STD.	STANDARD
FIN.	FINISH	SYMM.	SYMMETRICAL
F.G.	FINISHED GRADE	T&B	TOP AND BOTTOM
FLR.	FLOOR	T.O.	TOP OF
F.O.C.	FACE OF CONCRETE	T.O.C.	TOP OF CONCRETE
F.O.S.	FACE OF STUD	T.O.F.	TOP OF FOOTING
FTG.	FOOTING	T.O.S.	TOP OF SLAB
G.A.	GAUGE	T.O.W.	TOP OF WALL
GL	GLUE LAMINATED (BEAM)	TRANS.	TRANSVERSE
GT	GRIDDER TRUSS	TYP.	TYPICAL
H.R.	HEADER	U.O.N.	UNLESS OTHERWISE NOTED
H.D.	HOLDOWN	V. VERT.	VERTICAL
H. HORIZ.	HORIZONTAL	W	WEST
INT.	INTERIOR	W/	WITH
		WITHIN	WITHIN
		WITHOUT	WITHOUT

G.M.P
CONFORMED SET
 Not For
 Construction



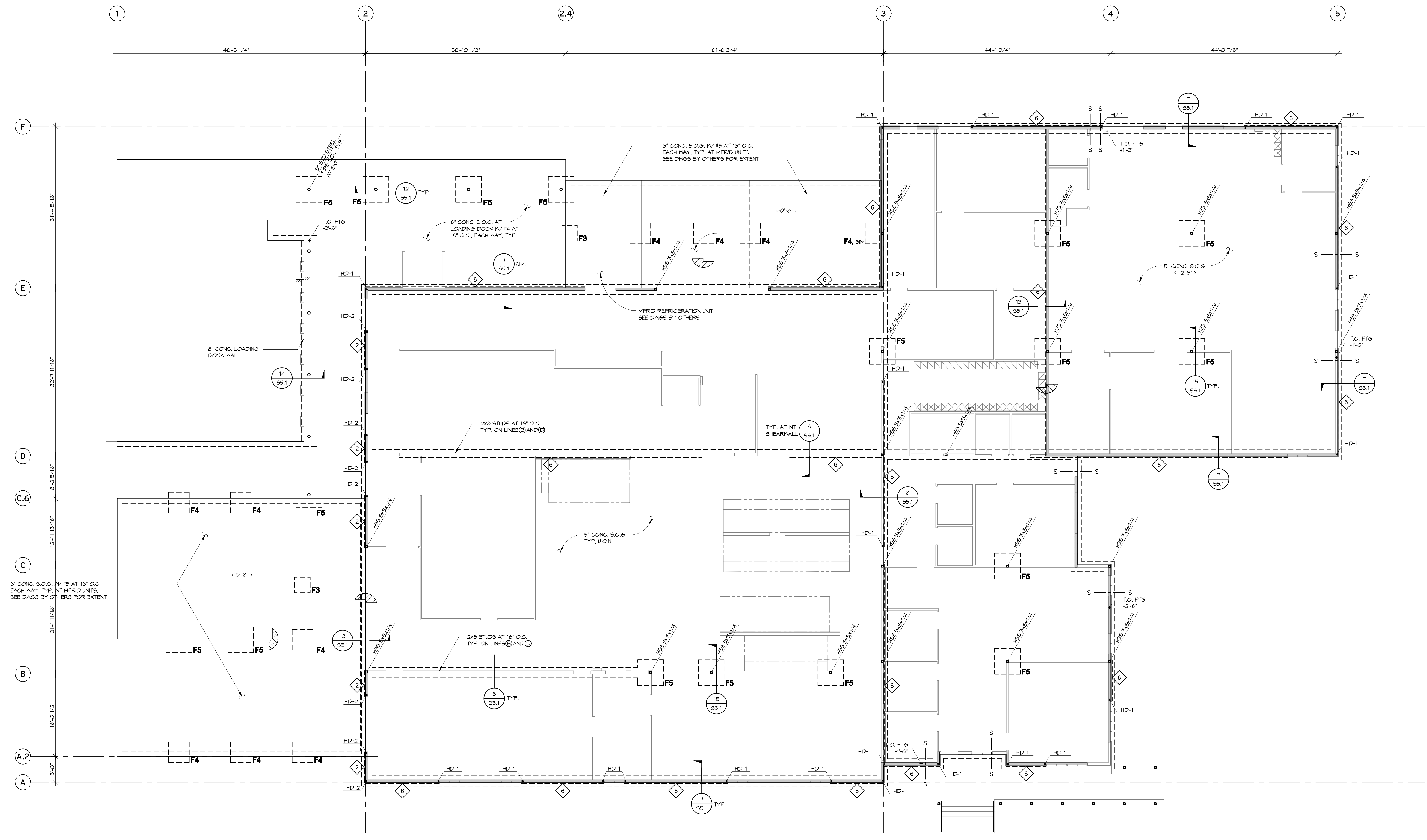
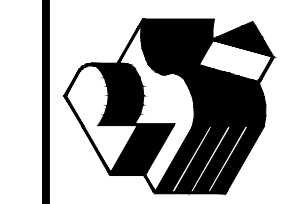
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GENERAL STRUCTURAL NOTES AND SYMBOLS

Drawn By	AMA
Checked	VHB
Date	7 NOV 2014
Project	1407

S1.0



A FOUNDATION PLAN
S1.1 1/8" = 1'-0"

FOUNDATION PLAN NOTES

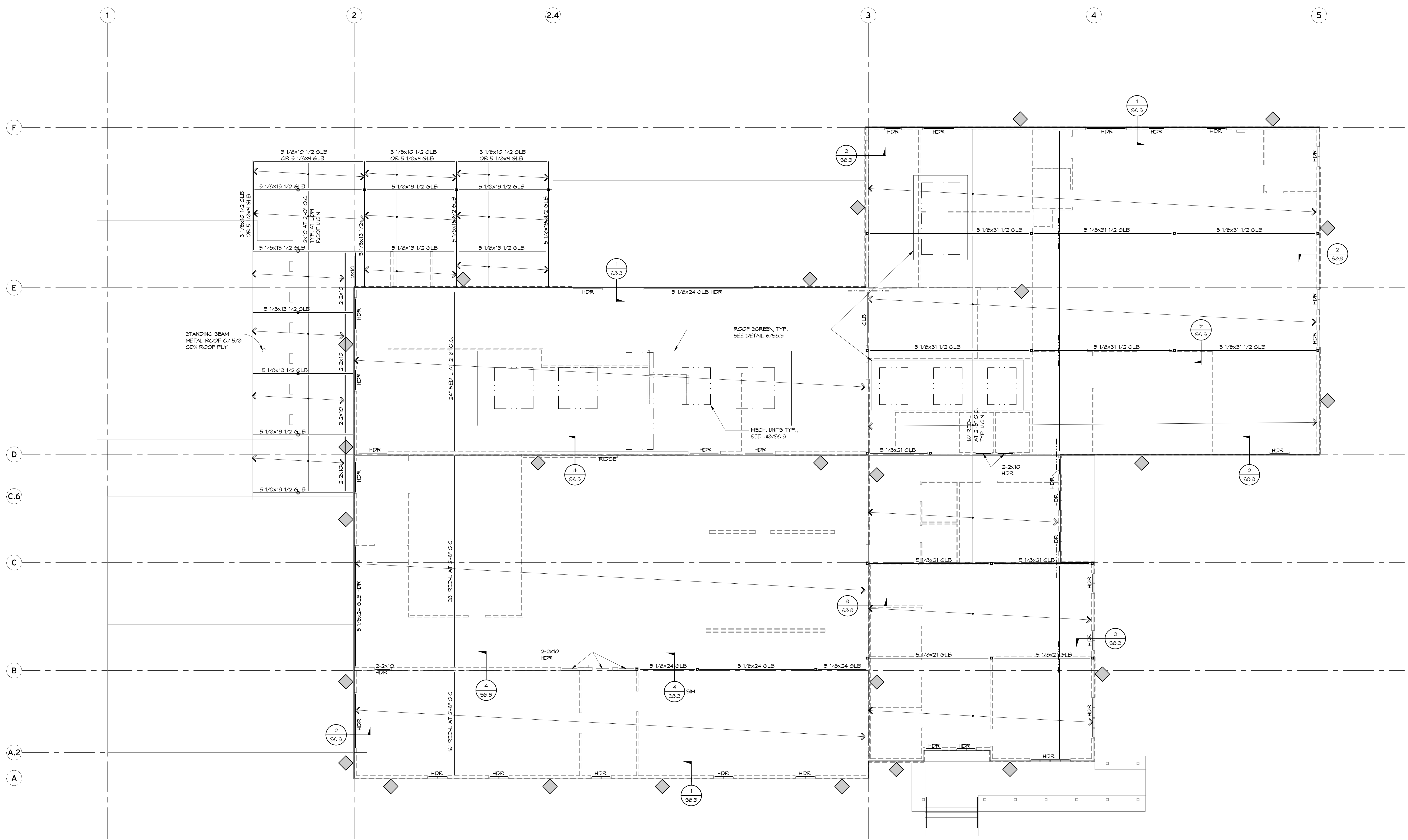
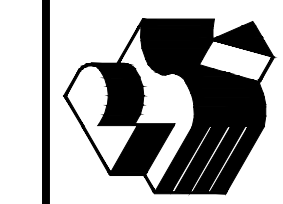
- SEE GENERAL NOTES AND SYMBOLS ON SHEET S1.0.
- SEE ARCHITECTURAL PLANS FOR ELEVATIONS AND DIMENSIONS FOR INTERIOR WALLS AND ALL WALL OPENINGS, AND MISCELLANEOUS ARCHITECTURAL FEATURES.
- T.O. SLAB DATUM ELEVATION (PER THE LANDSCAPE DRAWINGS) = FINISH FLOOR EL. (FFE) + 489.50' = RELATIVE ELEVATION = 0'-0", TYP. UNLESS NOTED ON PLAN THIS: (-X'-XX")
- T.O. FOOTING RELATIVE ELEVATION = -1'-0" UNLESS OTHERWISE NOTED ON PLAN THIS: (-X'-XX")
- SEE FOUNDATION DETAILS FOR ELEVATION AT BTM OF FOOTING RELATIVE TO FFE OR GRADE. CONTRACTOR TO ADJUST LOCATION AND DEPTHS OF STEPS SHOWN ON THE PLANS AS REQUIRED TO MAINTAIN MINIMUM DETAIL REQUIREMENTS.
- DIMENSIONS ARE TO EXTERIOR FACE OF STUD, & OF INTERIOR WALL, OR POST TYP. U.O.N.
- EXCAVATIONS SHALL BE MADE AS NEAR AS POSSIBLE TO THE LINES REQUIRED BY THE FOOTING. NO MATERIAL IS TO BE OVER EXCAVATED NECESSARILY.
- VERIFY LOCATION OF UNDERGROUND UTILITIES BEFORE EXCAVATION. NOTIFY ARCHITECT PRIOR TO EXCAVATION IN THE EVENT SUG UTILITIES ARE ENCOUNTERED.
- FOR DRAINAGE DETAILS, BUMPS, FITS, CAMPROOFING, TRENCHES, CURBS, EXTERIOR WALKS, UTILITIES, EQUIPMENT DETAILS, STEPS DIMENSIONS NOT SHOWN, ETC. SEE DRAWINGS OTHER THAN STRUCTURAL.
- SEE DETAILS 1, 2 ON SHEET S5.1 FOR TYPICAL REINFORCING INFORMATION.
- SETBACK CONDITIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO TRENCHING AND FORMING FOUNDATION. THE FOUNDATION SUBCONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR, SURVEYOR AND THE ARCHITECT.

FOUNDATION PLAN SYMBOLS

- DENOTES FIRST FLOOR SHEAR WALL. SEE SCHEDULE, DETAIL 5/50.2
- DENOTES EXTENT OF SHEAR WALL NAILING SHEATHINGS AND PANEL EDGE REQUIRED FULL LENGTH OF WALL, INCLUDING ABOVE AND BELOW ALL WALL OPENINGS
- DENOTES WALL ABOVE
- DENOTES SPREAD FOOTING
- DENOTES 6" CONCRETE STEM WALL
- DENOTES HSS COLUMN SIZE PER PLAN
- DENOTES HOLD-DOWN AT FOUNDATION PER 5/50.2
- DENOTES FOOTING STEP. SEE PLAN NOTE 5 AND DETAIL 6/55.1
- DROP IN FLOOR ELEVATION

FOOTING SCHEDULE

FOOTING SCHEDULE		
MARK	DIM.	BOT. RENF.
F3	3'-0" x 3'-0" x 1'-6"	4-#5 EA. WAY
F4	4'-0" x 4'-0" x 1'-6"	5-#5 EA. WAY
F4, SIM.	4'-0" x 4'-0" x 1'-6"	5-#5 EA. WAY
F6	5'-0" x 5'-0" x 1'-6"	6-#5 EA. WAY



A ROOF FRAMING PLAN
S2.1 1/8" = 1'-0"

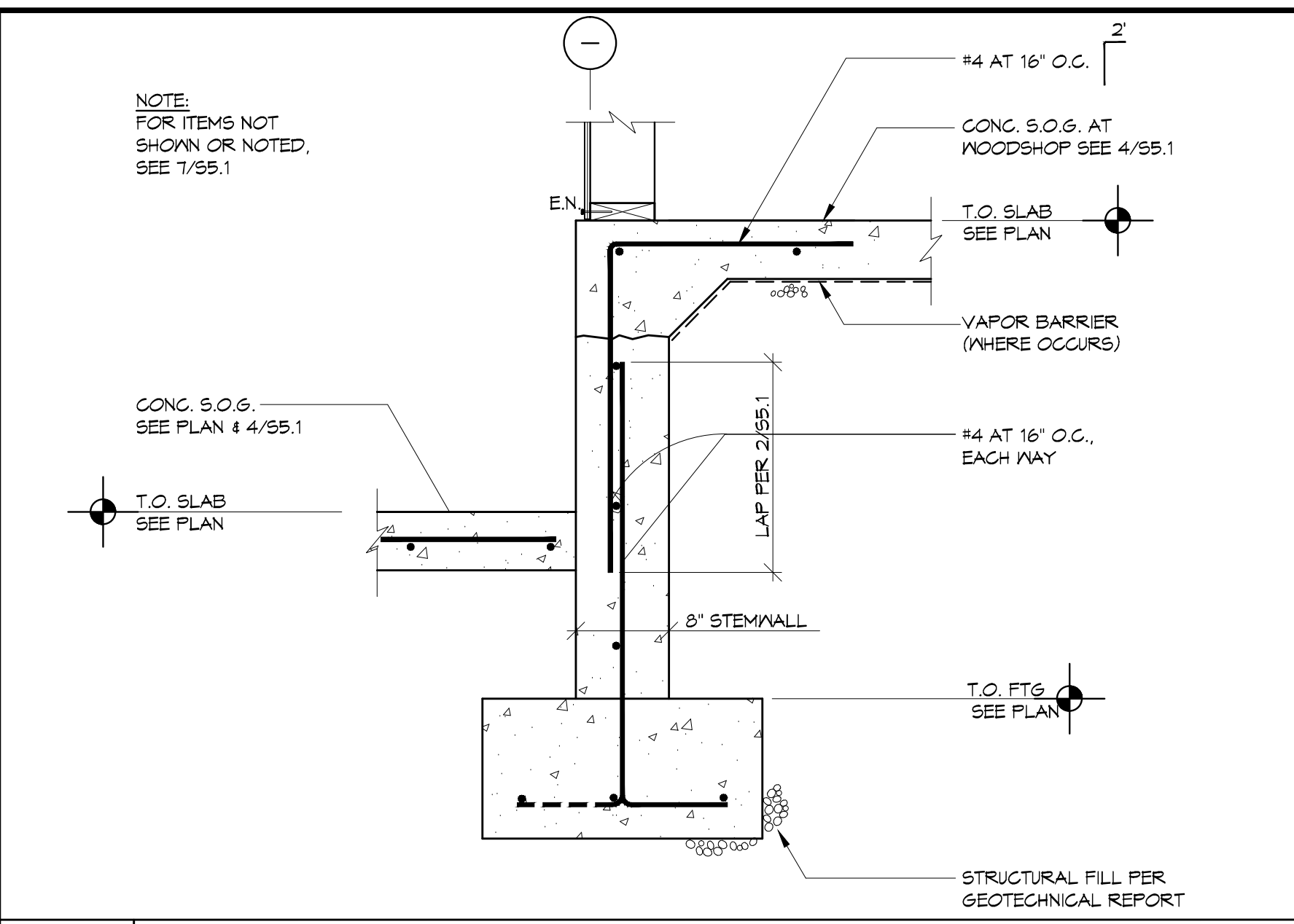


ROOF FRAMING PLAN NOTES

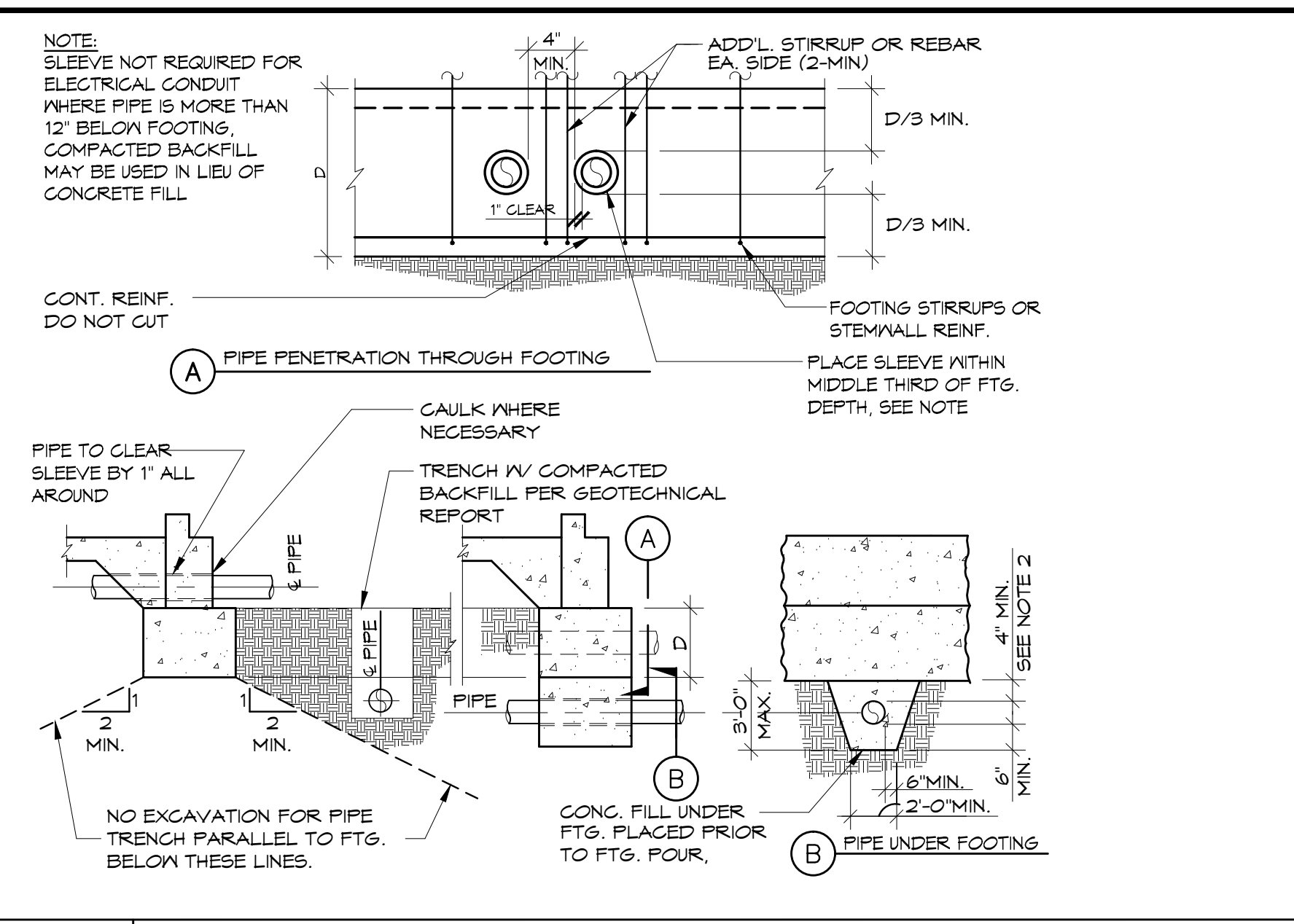
- SEE GENERAL NOTES AND SYMBOLS ON SHEET S1.0.
- SEE DRAWING OTHER THAN STRUCTURAL FOR MECHANICAL, ELECTRICAL AND SHAFT OPENINGS, ETC.
- SEE DETAIL 4/S0.1 AND FOR ALLOWABLE HOLES AND NOTCHES AT FRAMING MEMBERS.
- SAWN LUMBER BEAMS SPECIFIED MAY BE SUBSTITUTED WITH PREFABRICATED BEAMS (i.e. LVL) AS A CONTRACTOR OPTION. THIS SUBSTITUTION SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD.
- SEE DETAILS 0 & 12/S0.1 FOR TYPICAL BEAM/POST CONNECTIONS UNLESS OTHERWISE NOTED.
- SEE DETAIL 10/S0.2 FOR DIAPHRAGM NAILING.

ROOF FRAMING PLAN SYMBOLS

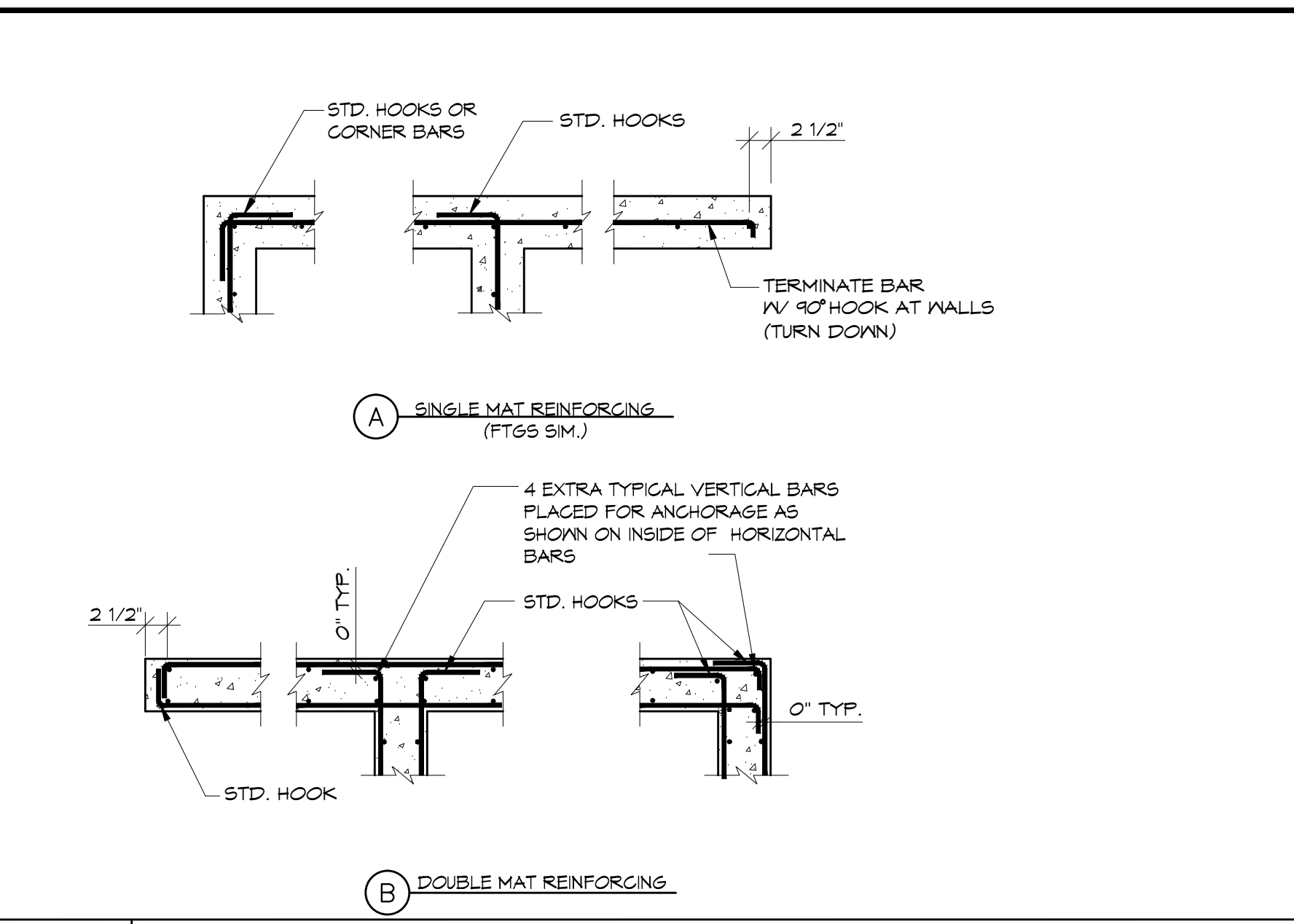
- DENOTES SHEARWALL BELOW FLOOR LEVEL. SEE SCHED. AND DETAIL 4/S0.2.
- DENOTES BEARING WALL BELOW.
- DENOTES WALL BELOW.
- DENOTES CMSTC16x6 STRAP OVER ROOF FLY, U.O.N. ON PLAN.
- DENOTES HSS COL. BELOW.



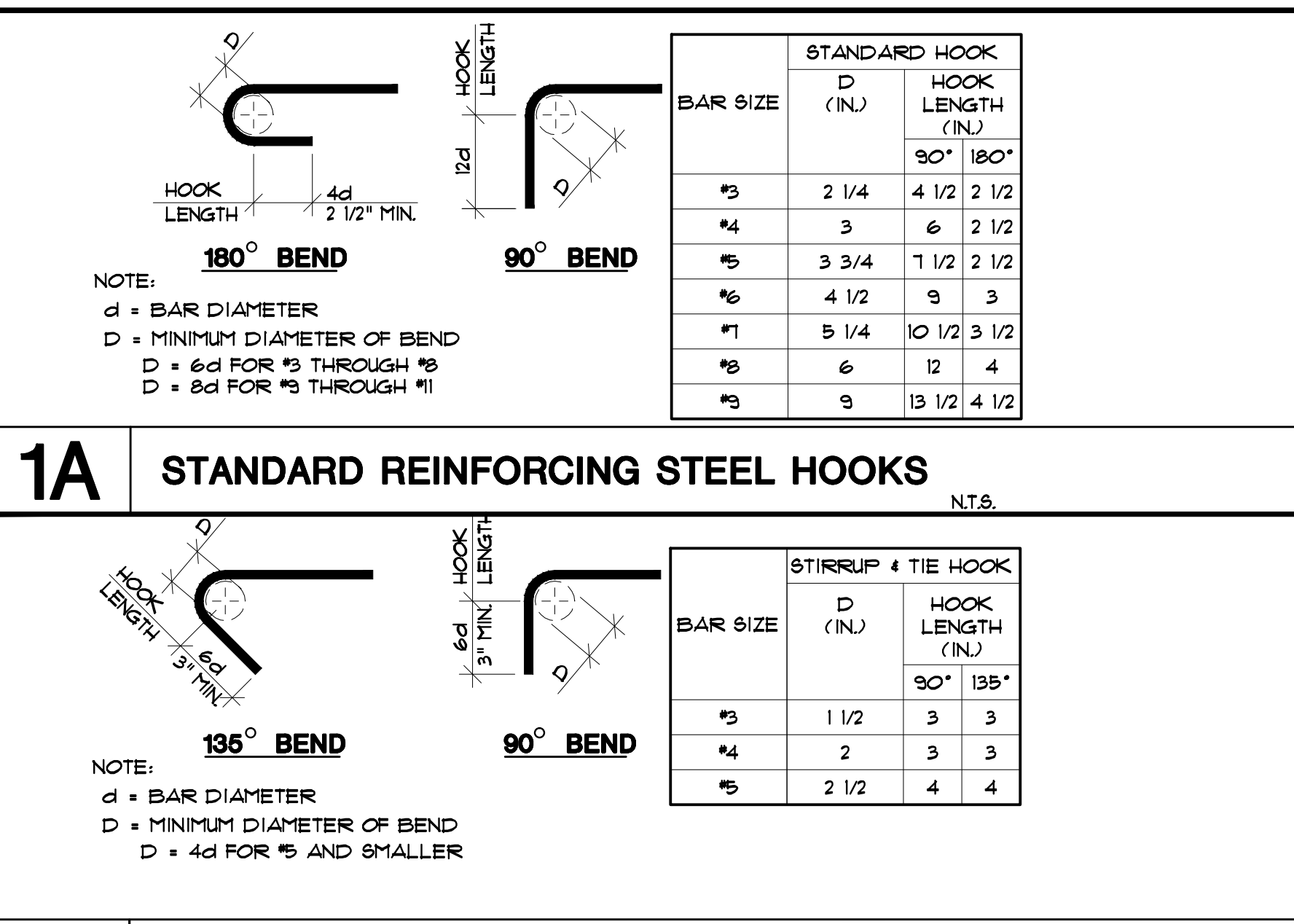
13 SECTION AT WOOD SHOP 1/4"=0'



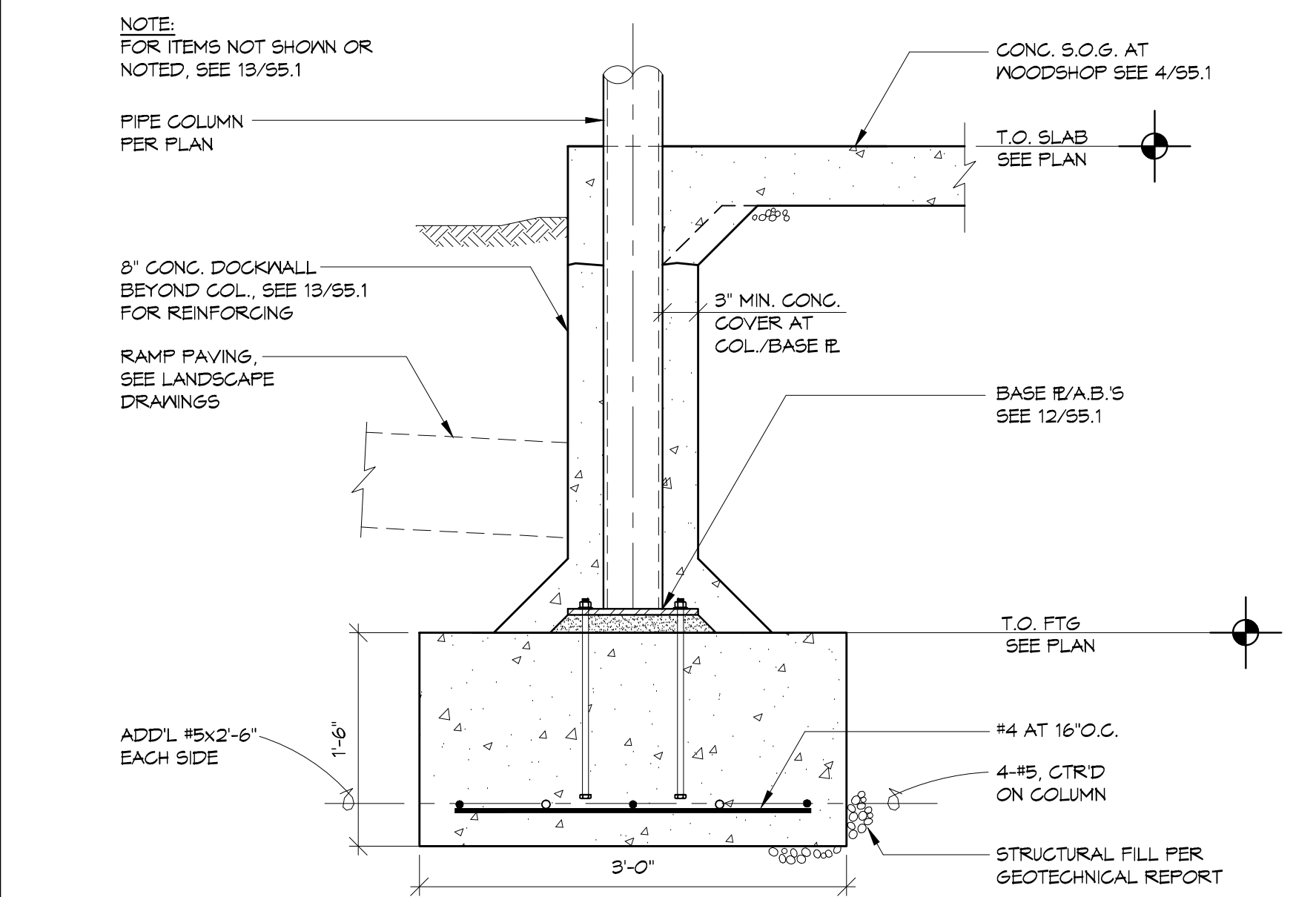
9 TYP. PIPE CLEARANCES WITH FOOTINGS 1/4"=0'



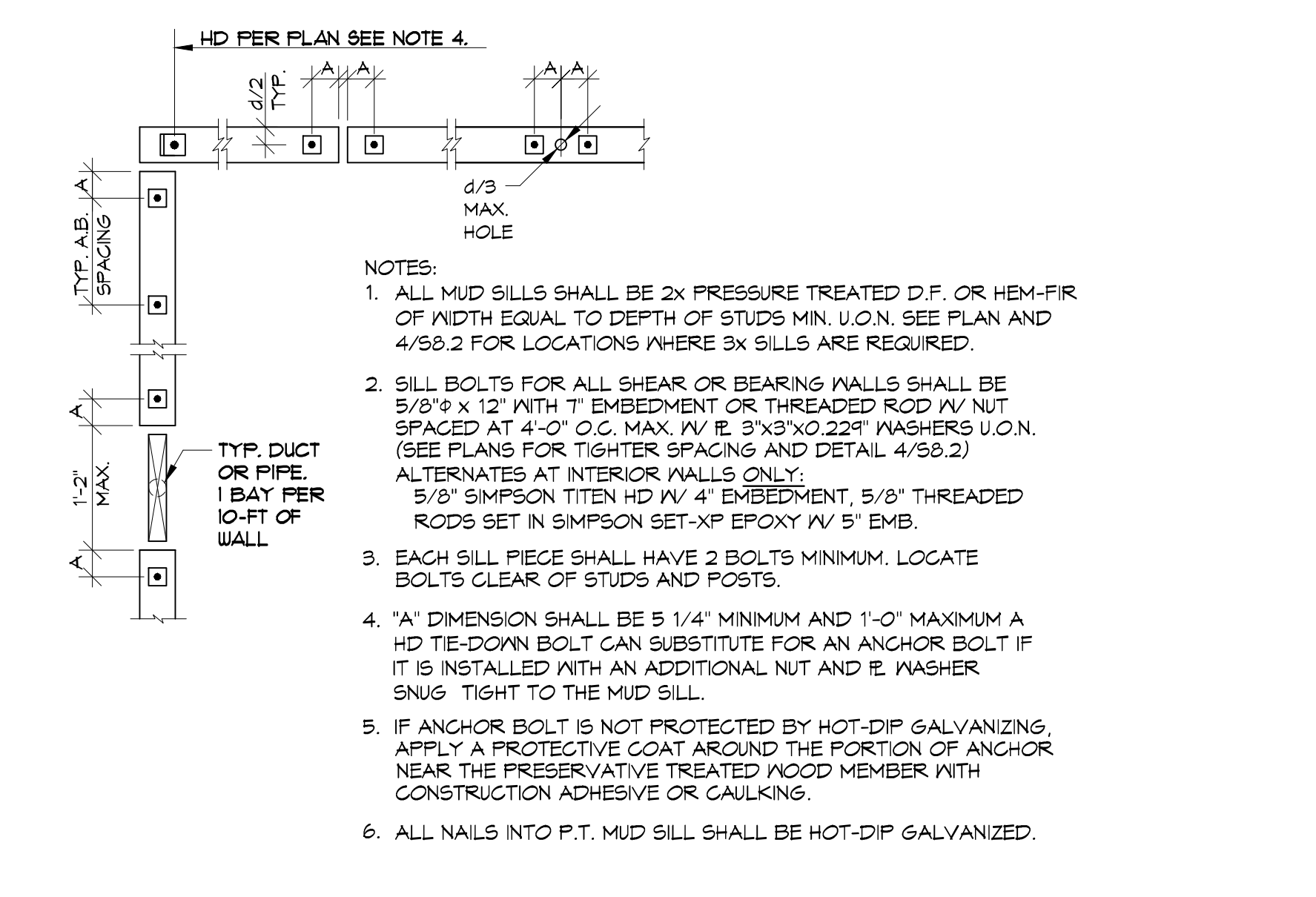
5 CONCRETE CORNERS & INTERSECTIONS N.T.S.



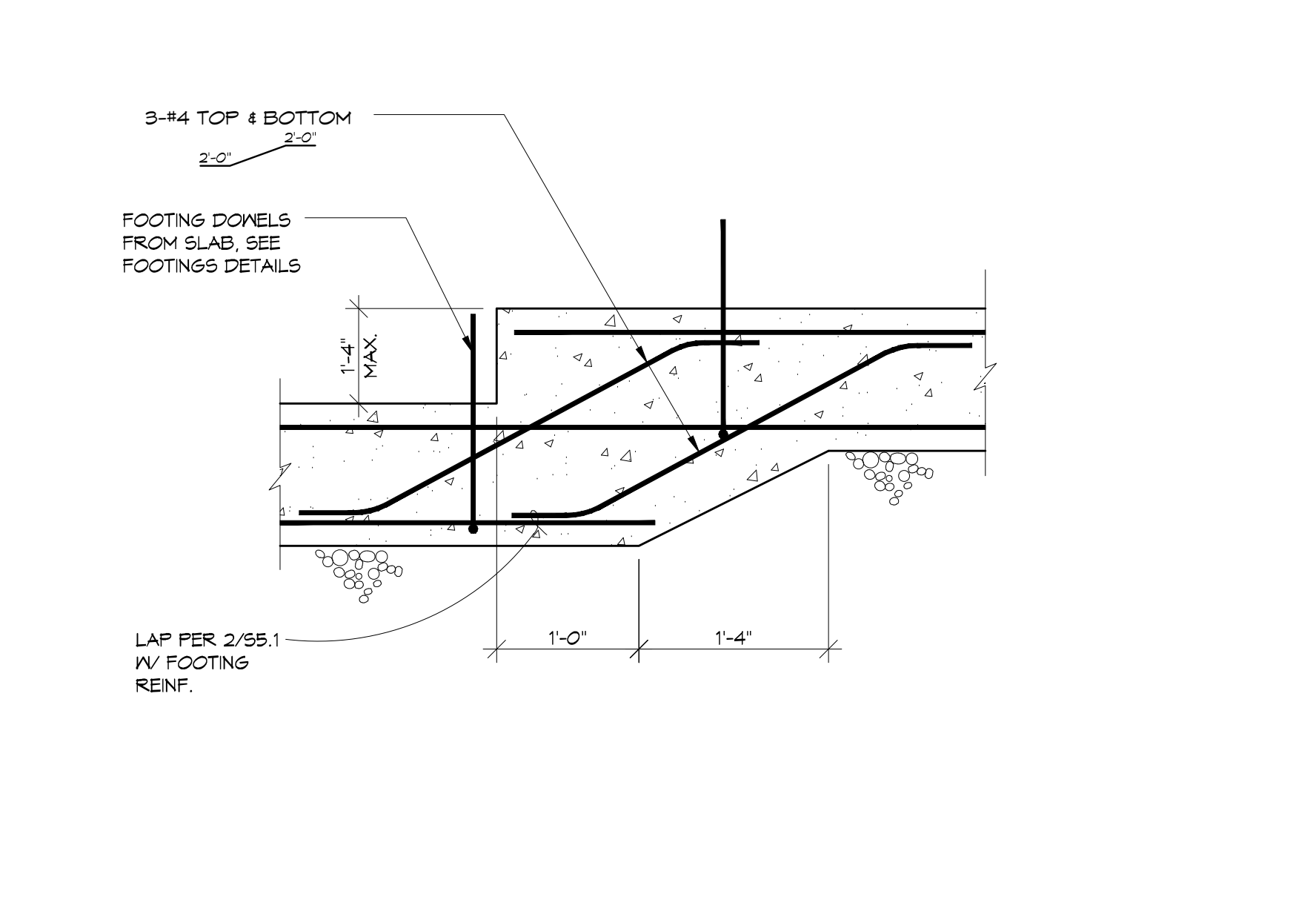
1A STANDARD REINFORCING STEEL HOOKS N.T.S.



14 PIPE COLUMN FTG AT LOADING DOCK 1/4"=0'



10 MUD SILL & ANCHOR BOLT REQUIREMENTS N.T.S.



6 TYPICAL FOOTING STEP DETAIL 1/4"=0'

TOP BARS - 90° HOOK EMBEDMENT AND CLASS B TENSION LAP SPLICE FOR GRADE 60 REINF.

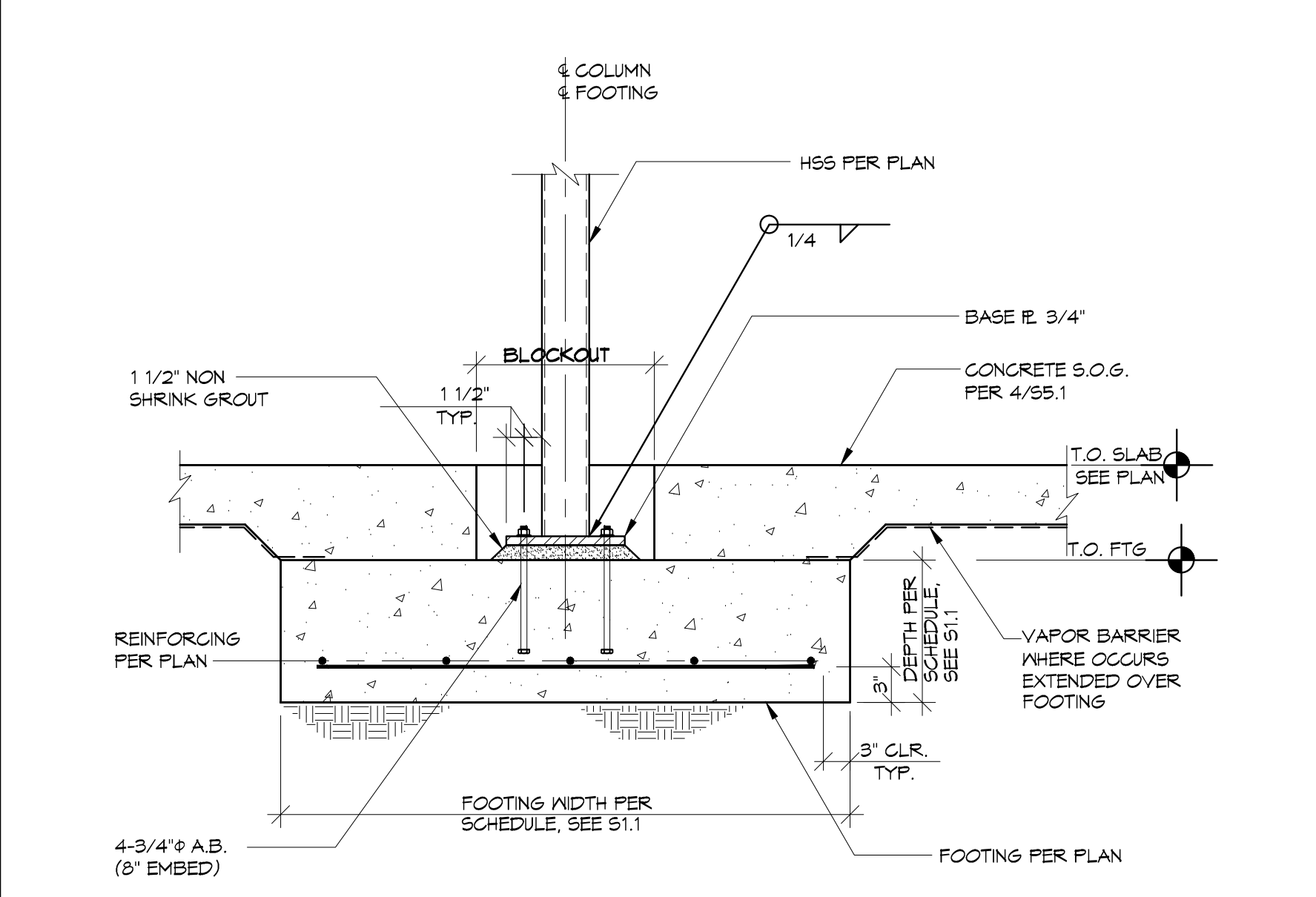
BAR SIZE	2,500 PSI		3,000 PSI		4,000 PSI		5,000 PSI	
	EMBED (IN.)	CLASS B (IN.)	EMBED (IN.)	CLASS B (IN.)	EMBED (IN.)	CLASS B (IN.)	EMBED (IN.)	CLASS B (IN.)
#3	9	31	9	25	8	25	7	22
#4	12	41	11	30	10	33	9	24
#5	15	51	14	47	12	41	11	36
#6	18	61	17	56	15	49	13	44
#7	21	69	20	61	17	54	15	49
#8	24	102	22	83	19	67	17	54
#9	27	115	25	105	22	91	20	63

OTHER BARS - 90° HOOK EMBEDMENT AND CLASS B TENSION LAP SPLICE FOR GRADE 60 REINF.

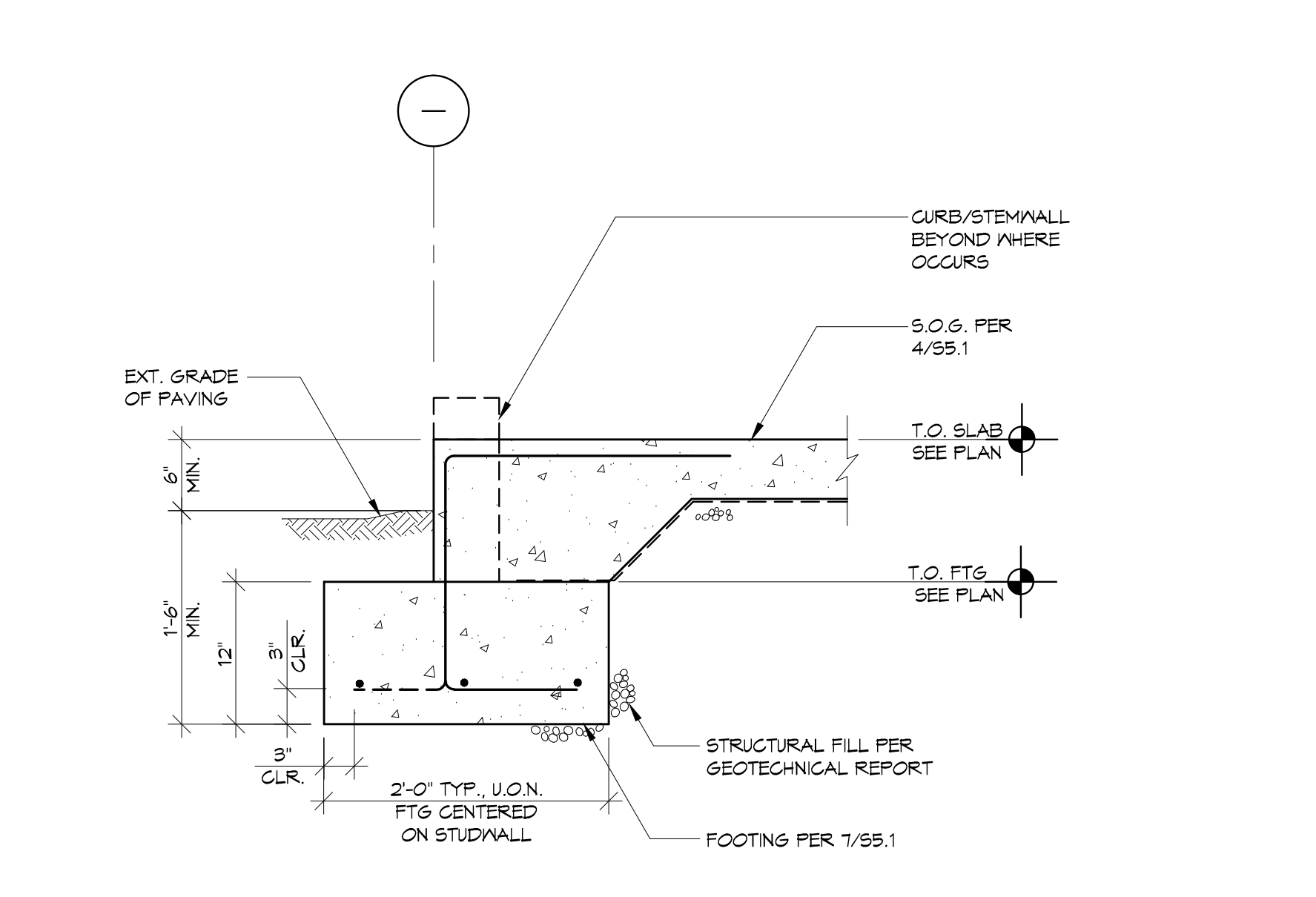
BAR SIZE	2,500 PSI		3,000 PSI		4,000 PSI		5,000 PSI	
	EMBED (IN.)	CLASS B (IN.)	EMBED (IN.)	CLASS B (IN.)	EMBED (IN.)	CLASS B (IN.)	EMBED (IN.)	CLASS B (IN.)
#3	9	24	9	22	8	19	7	17
#4	12	32	11	29	10	25	9	23
#5	15	39	14	36	12	31	11	28
#6	18	47	17	43	15	37	13	34
#7	21	69	20	63	17	54	15	49
#8	24	78	22	72	19	62	17	56
#9	27	88	25	81	22	70	20	63

NOTES: 1. TOP BARS = HORIZONTAL BARS (OTHER THAN IN WALLS) PLACED WITH MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THEM. SEE DET. 3.
2. ABOVE TABLES ARE BASED UPON MINIMUM CLEAR COVER GREATER THAN 1.00D AND MINIMUM CLEAR SPACING GREATER THAN 2d. WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE THE EMBEDMENT OR LAP LENGTH BY 50%.
3. USE CLASS B LAP SPLICE FOR ALL BAR SPLICES TYP.
4. FOR ADDITIONAL INFORMATION SEE DET. 3A.

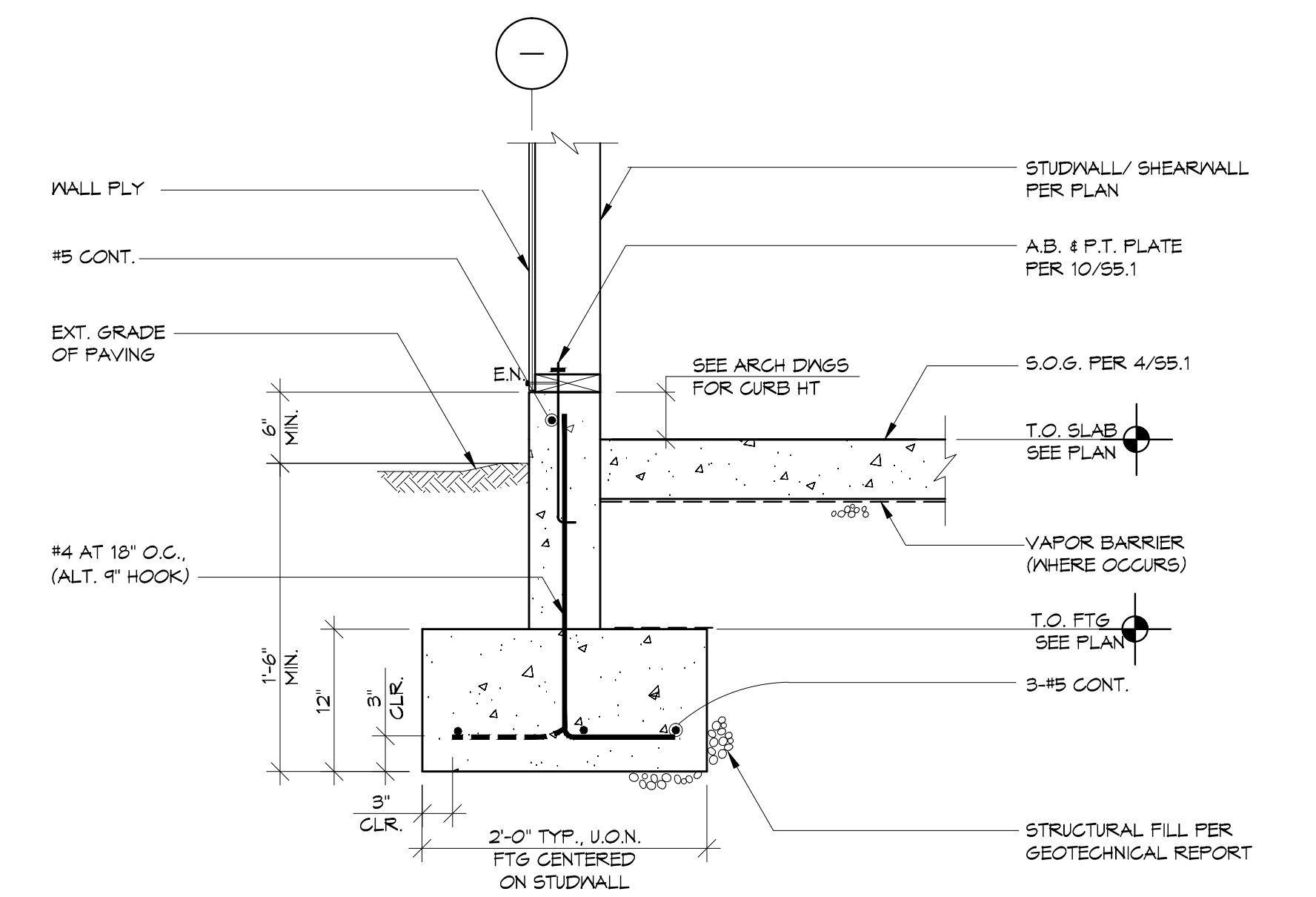
2 TYPICAL REINFORCEMENT EMBED AND LAP SPLICE S.S.10-02 N.T.S.



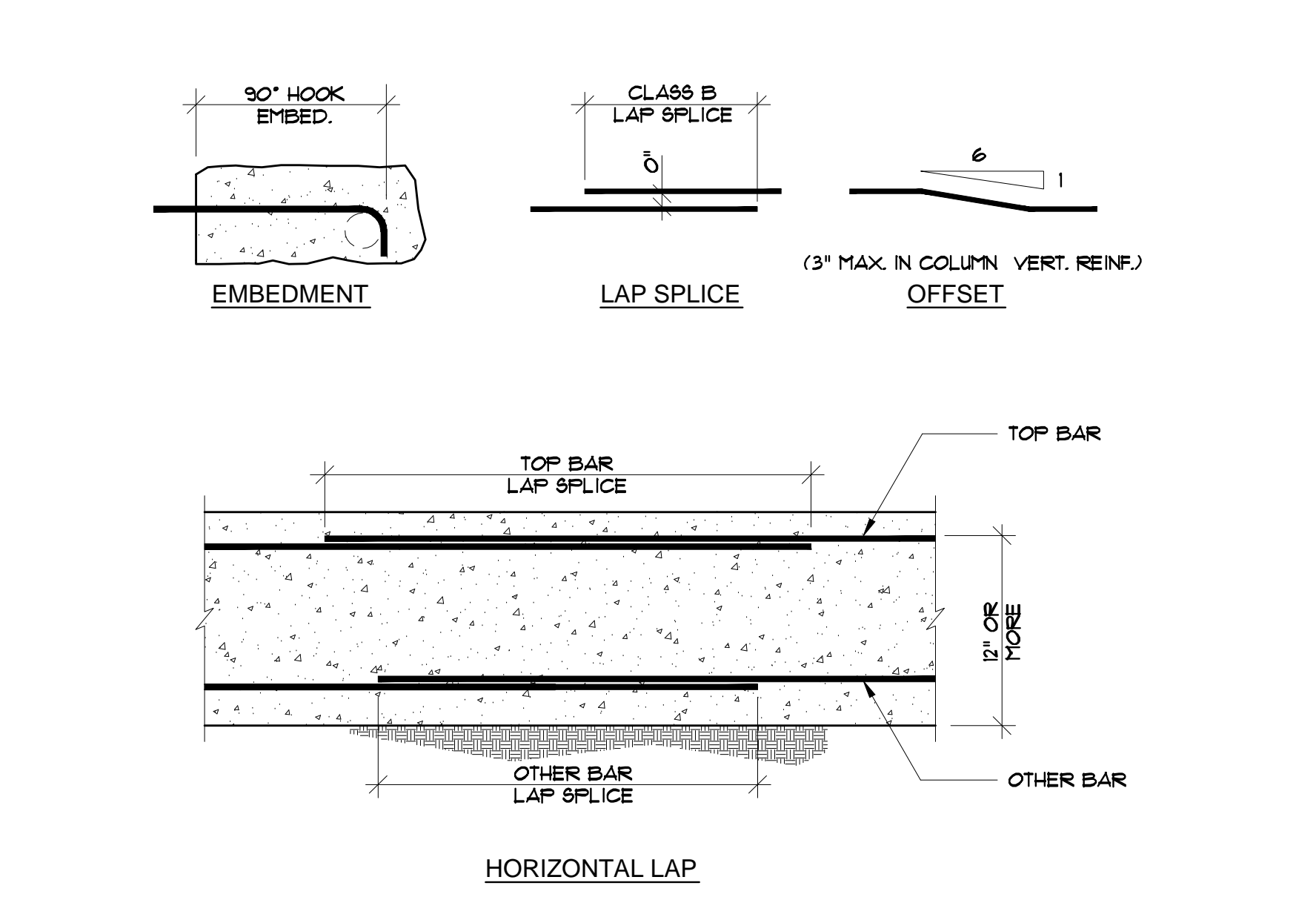
15 HSS COLUMN FOOTING 1/4"=0'



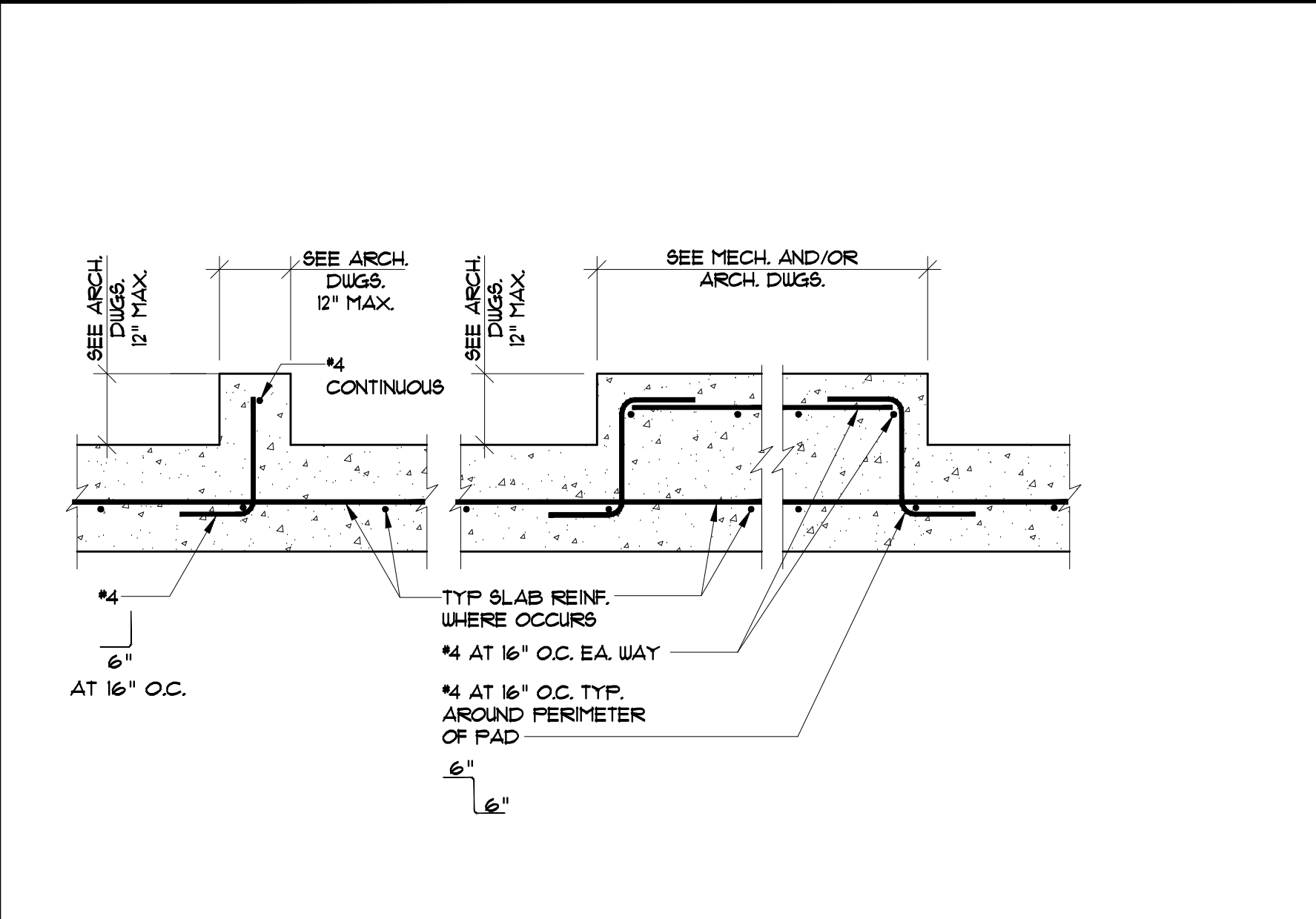
11 FOUNDATION AT THRESHOLD 1/4"=0'



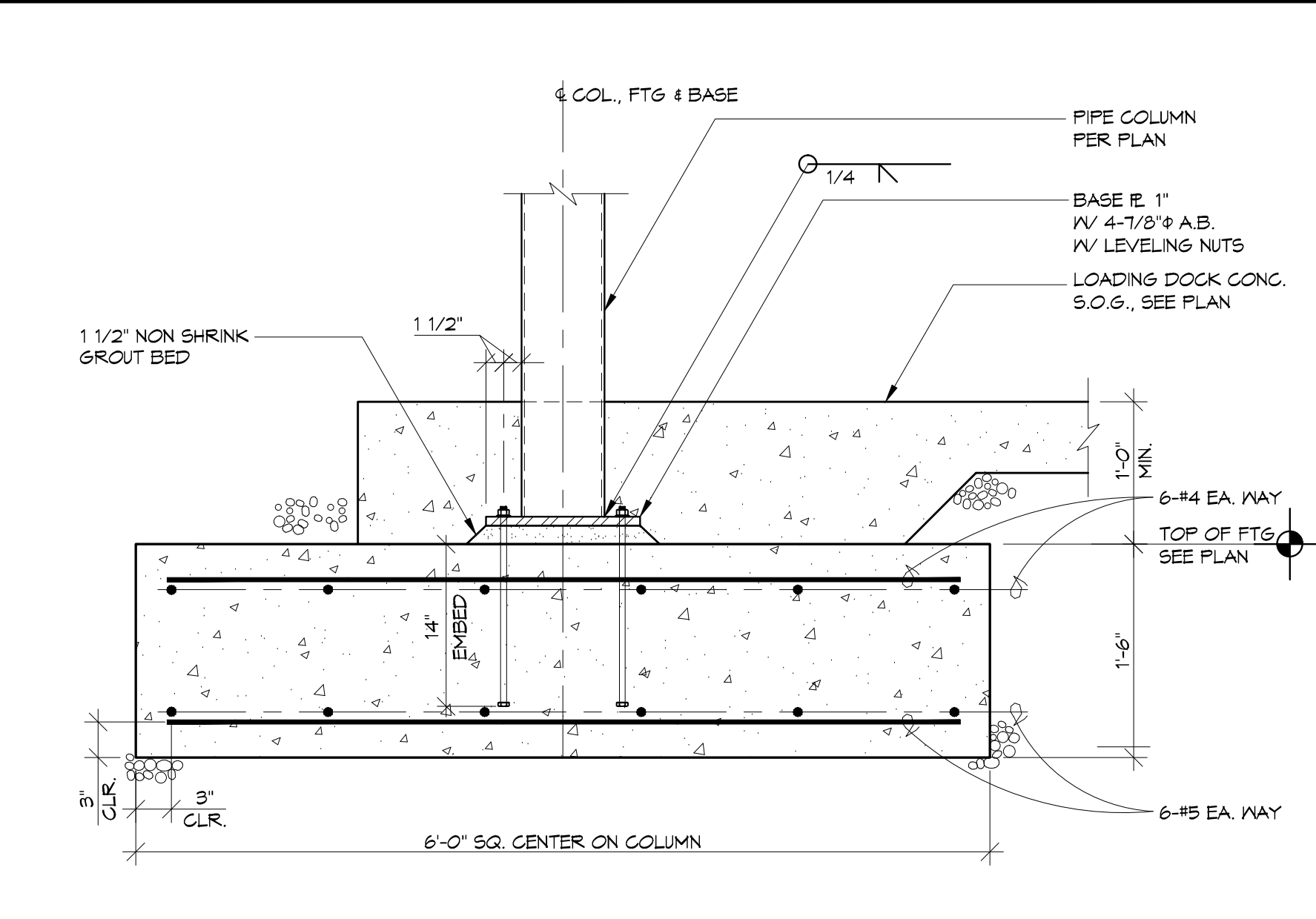
7 TYP. EXTERIOR STUD WALL FOOTING 1/4"=0'



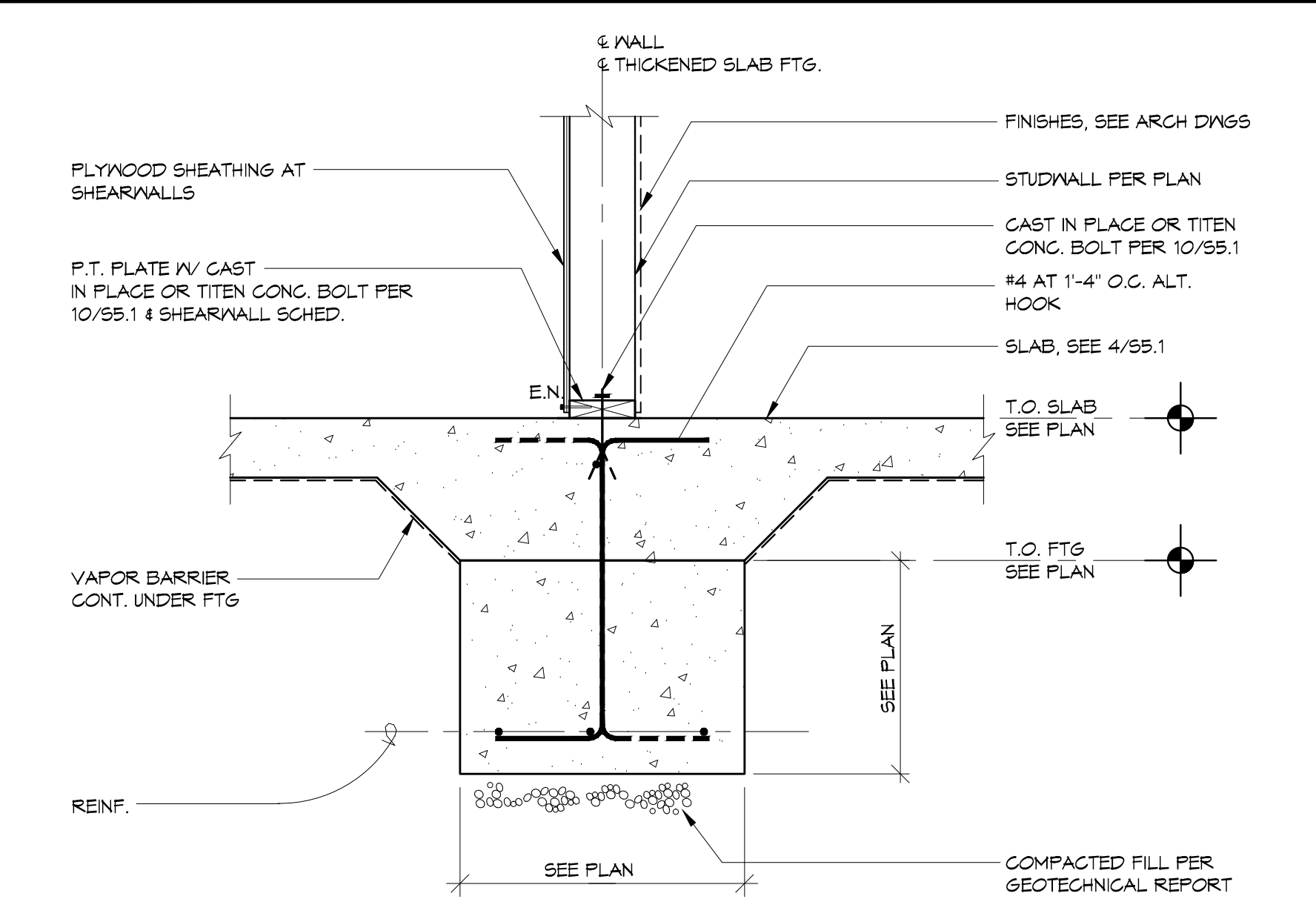
3 TYPICAL REINFORCEMENT EMBED, LAP SPLICE AND OFFSET 1/4"=0'



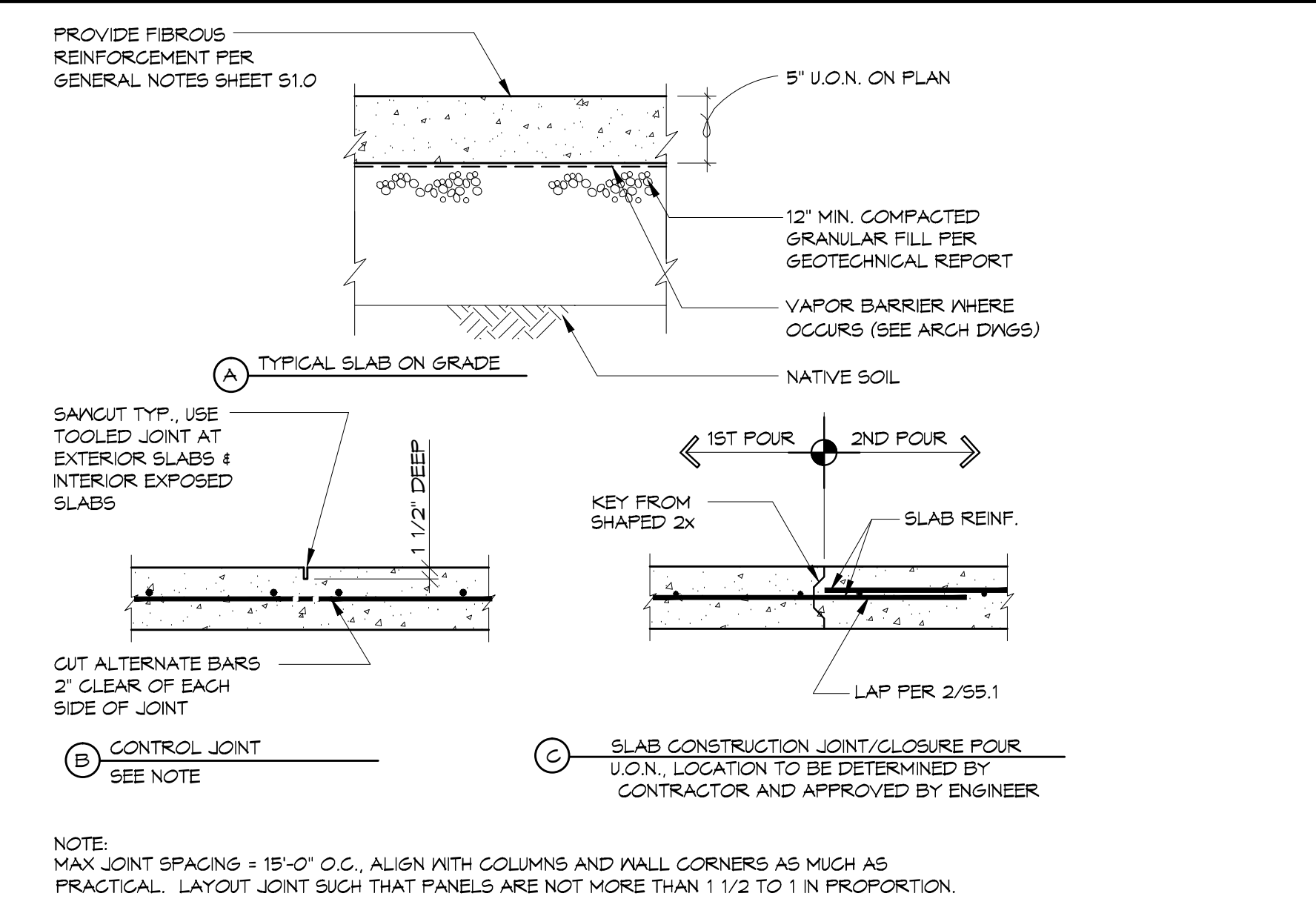
16 TYPICAL CURB AND RAISED PAD DETAILS N.T.S.



12 PIPE COLUMN FOOTING AT LOADING DOCK 1/4"=0'



8 THICKENED SLAB FTG. / STRUCTURAL WALL 1/4"=0'



4 CONCRETE SLAB ON GRADE DETAILS N.T.S.

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TYPICAL CONCRETE AND FOUNDATION DETAILS

Drawn By: AMA
Checked: VHB
Date: 7 NOV 2014
Project: 1407

S5.1
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CONNECTION	NAILING
1. Joist to sill or girder, toenail	3-8d
2. Bridging to joists, toenail each end	2-8d
3. Sole plate to joist or blocking, face nail Sole plate to joist or blocking, at braced wall panels	16d at 16" o.c. 3-16d per 16"
4. Top plate to stud, end nail	2-16d
5. Stud to sole plate	4-8d, toenails or 2-16d, end nail
6. Double studs, face nail	16d at 24" o.c.
7. Doubled top plates, face nail Double top plates, lap splice (EXCEPT SHEAR WALLS/LINE)	16d at 16" o.c. 8-16d
8. Blocking between joists or rafters to top plate, toenail	3-8d
9. Rim joist to top plate, toenail	8d at 6" o.c.
10. Top plates, corner laps and intersections, face nail	4-16d
11. Built-up corner studs	16d at 24" o.c.
12. Built-up girder and beams (Note 3)	16d at 32" o.c. top and bottom staggered 3-16d at ends

Notes:

- COMMON OR BOX NAIL MAY BE USED FOR TYPICAL NAILING U.O.N.
- NAILING PER SCHEDULE ABOVE IS TO BE USED WHERE NAILING IS NOT SPECIFIED ON PLANS OR DETAILS. NAILING PER PLANS AND DETAILS SUPERCEDES NAILING SCHEDULE UNLESS APPROVED BY ENGINEER.
- FOR SAUN LUMBER, FOR DBL OR TRIPLE L&L OR LVL BEAMS, USE 16d COMMON NAILS AT 12" O.C. TOP AND BOTTOM, ONE FACE FOR DOUBLE, BOTH FACES FOR TRIPLE.

13

9 NAILING SCHED. (PER OSSC TABLE 2304.9.1)

NO SCALE

MEMBER	FACE MOUNT	TOP FLANGE
2x6	LU826	HJ26TF
2x8	LU826	HJ28TF
2-2x8	LU826-2	HJ28-2TF
2x10	LU8210	HJ210TF
2-2x10	LU8210-2	HJ210-2TF
4x6	HJ46 MAX.	W46
4x8	HJ48 MAX.	B48
4x10	HJ410 MAX.	B410
4x12	HJ412	HJ412
14" TJI	IUS	ITB
GLB 3 1/8 / PSL 3 1/2	HGU8	LEG
GLB 5 1/8 / PSL 5 1/4	HGU8	LEG
GLB 6 3/4 / PSL 7	HGU8	LEG

Notes:

- INSTALL PER MANUFACTURER'S INSTRUCTIONS. FILL ALL HOLES WITH FASTENERS SPECIFIED.
- USE SKEWED AND/OR SLOPED HANGERS AS REQ'D.
- HANGERS ARE TYP. U.O.N. IN DRAWINGS.

14

10 HANGER SCHEDULE

NO SCALE

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

15

11 TYPICAL FRAMING OPENINGS IN WALLS

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

16

12

5 TYPICAL NAILER AT HSS

1'-1'-0"

Notes:

- COORDINATE WIDTH/DEPTH OF NAILERS WITH ARCH. DETAILS. USE 2x 8d NAILERS W/ 8d THREADED RODS AT 8" O.C. TYP. USE 3x (OR 4x) NAILERS ONLY WHERE NOTED OR WHERE COUNTERSINK BOLTS ARE REQUIRED TO RECEIVE PLT. OR TO CONCEAL BOLTS FOR ARCH FINISHES. MAX IN 3x NAILERS SHALL NOT EXCEED 7" IN DEPTH.
- LOCATE FIRST THREADED RODS 6" ABOVE FIN. ELEV. AND EXTEND NAILERS TO 6" BELOW TOP OF 75-TYPICAL U.O.N.
- SEE ARCHITECTURAL DETAILS FOR LOCATION OF HSS COLUMN WITHIN STUD WALL.
- WHERE ARCHITECTURAL DETAILS SHOW SHEATHING APPLIED DIRECTLY TO HSS COL. OR IOK, ATTACH W/ 1/4" POWER DRIVEN PINS @ 2' O.C.

5 TYPICAL NAILER AT HSS

1'-1'-0"

1 STRENGTHENING PENETRATION THROUGH BEARING OR SHEAR WALL

NO SCALE

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

6 BEARING OR SHEAR WALL FRAMING

1'-1'-0"

8 TYP. BEAM TO POST CONN.

N.T.S.

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

4 TYPICAL ALLOWABLE HOLES IN SAWN LUMBER MEMBERS AND GLULAM BEAMS (U.O.N.)

NO SCALE

4 TYPICAL ALLOWABLE HOLES IN SAWN LUMBER MEMBERS AND GLULAM BEAMS (U.O.N.)

NO SCALE

Notes:

- D = DEPTH OF SAUN LUMBER RAFTER OR BEAM
- S = STUD WIDTH
- L = CLEAR SPAN
- PREDRILL CORNERS OF NOTCHES
- NOTCH MAY OCCUR TOP OR BOTTOM, NOT BOTH.
- NO HOLES WITHIN 2 INCHES OF TOP OR BOTTOM.

8 TYP. BEAM TO POST CONN.

N.T.S.

4 TYPICAL ALLOWABLE HOLES IN SAWN LUMBER MEMBERS AND GLULAM BEAMS (U.O.N.)

NO SCALE

9 HANGER SCHEDULE

NO SCALE

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

9 HANGER SCHEDULE

NO SCALE

10 HANGER SCHEDULE

NO SCALE

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

10 HANGER SCHEDULE

NO SCALE

11 TYPICAL FRAMING OPENINGS IN WALLS

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

11 TYPICAL FRAMING OPENINGS IN WALLS

12

8 TYP. BEAM TO POST CONN.

N.T.S.

4 TYPICAL ALLOWABLE HOLES IN SAWN LUMBER MEMBERS AND GLULAM BEAMS (U.O.N.)

NO SCALE

1 STRENGTHENING PENETRATION THROUGH BEARING OR SHEAR WALL

NO SCALE

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

1 STRENGTHENING PENETRATION THROUGH BEARING OR SHEAR WALL

NO SCALE

6 BEARING OR SHEAR WALL FRAMING

1'-1'-0"

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

6 BEARING OR SHEAR WALL FRAMING

1'-1'-0"

10 HANGER SCHEDULE

NO SCALE

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

10 HANGER SCHEDULE

NO SCALE

11 TYPICAL FRAMING OPENINGS IN WALLS

Notes:

- UNLESS OTHERWISE NOTED ON PLANS
- USE NAILING SCHEDULE DTL. (V/88) FOR OTHER NAILING REQUIREMENTS NOT NOTED.
- SEE (C) FOR BUILT-UP HEADER
- 2-2x BRG STUDS AT INTERIOR HEADERS
- 2-2x KING STUDS AT INTERIOR HEADERS

11 TYPICAL FRAMING OPENINGS IN WALLS

12

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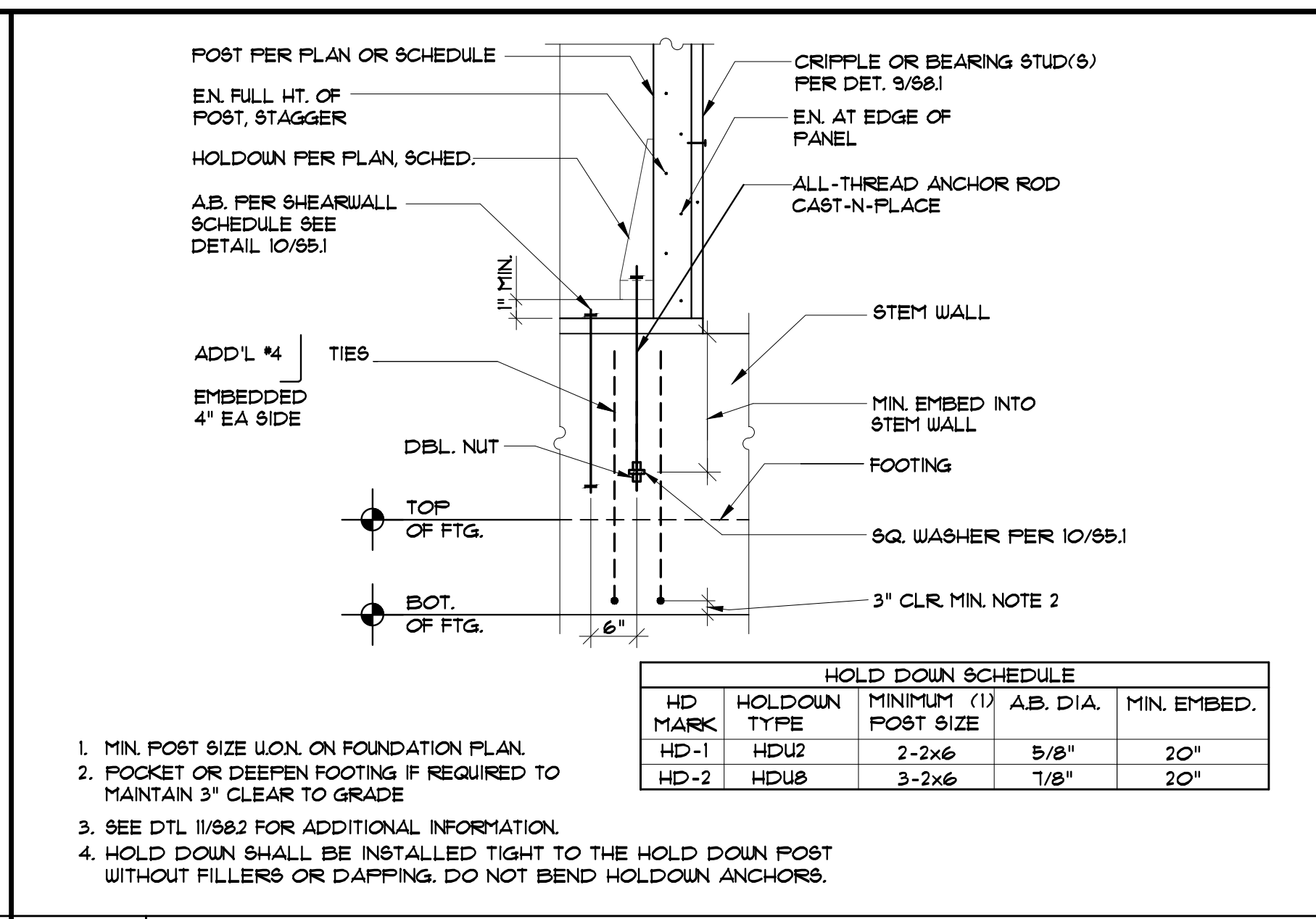
TYPICAL WOOD FRAMING DETAILS

Drawn By: AMA
Checked: VHB
Date: 7 NOV 2014
Project: 1407

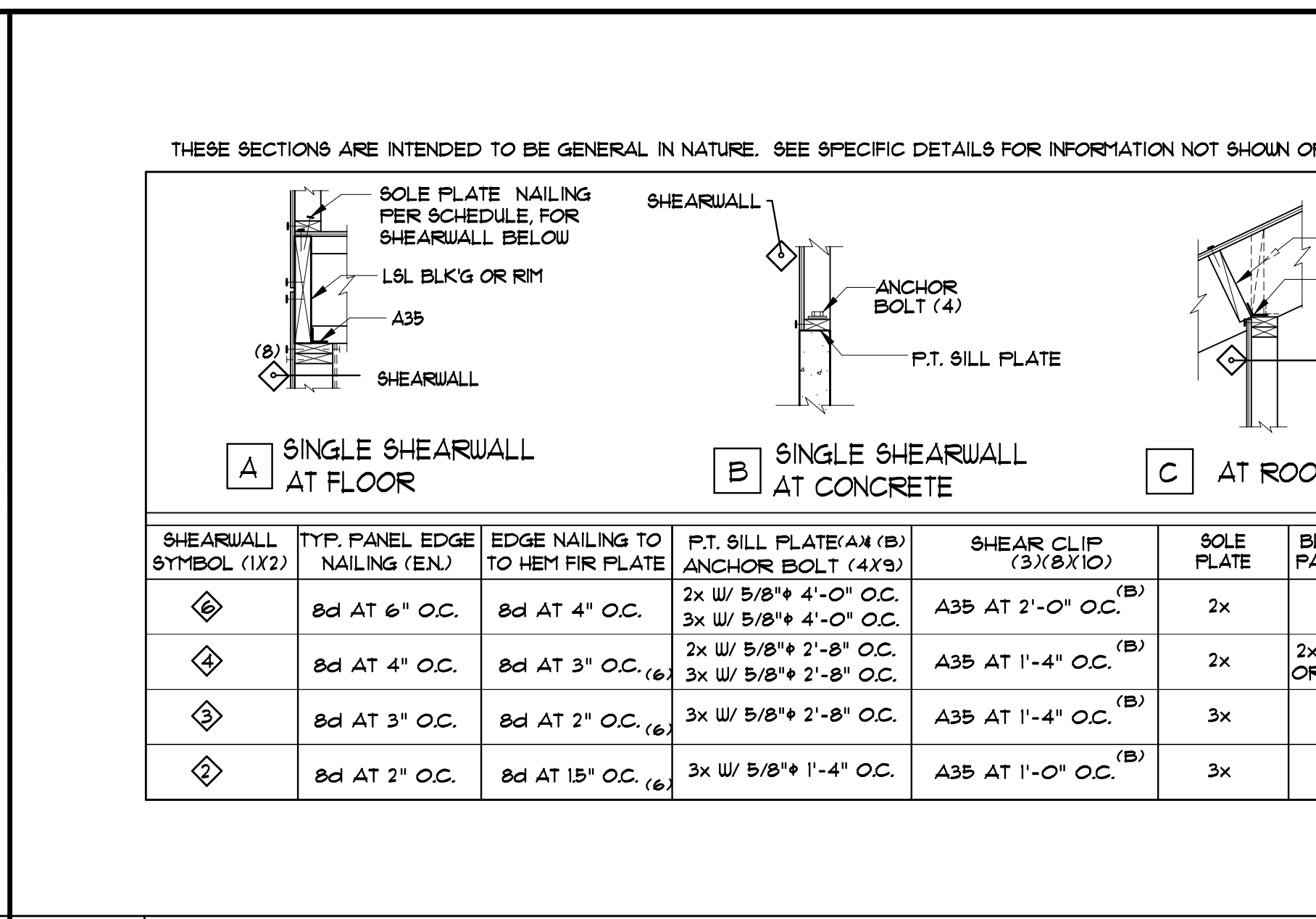
S8.1



13



9 TYPICAL HOLD DOWN AT FOUNDATION. NO SCALE



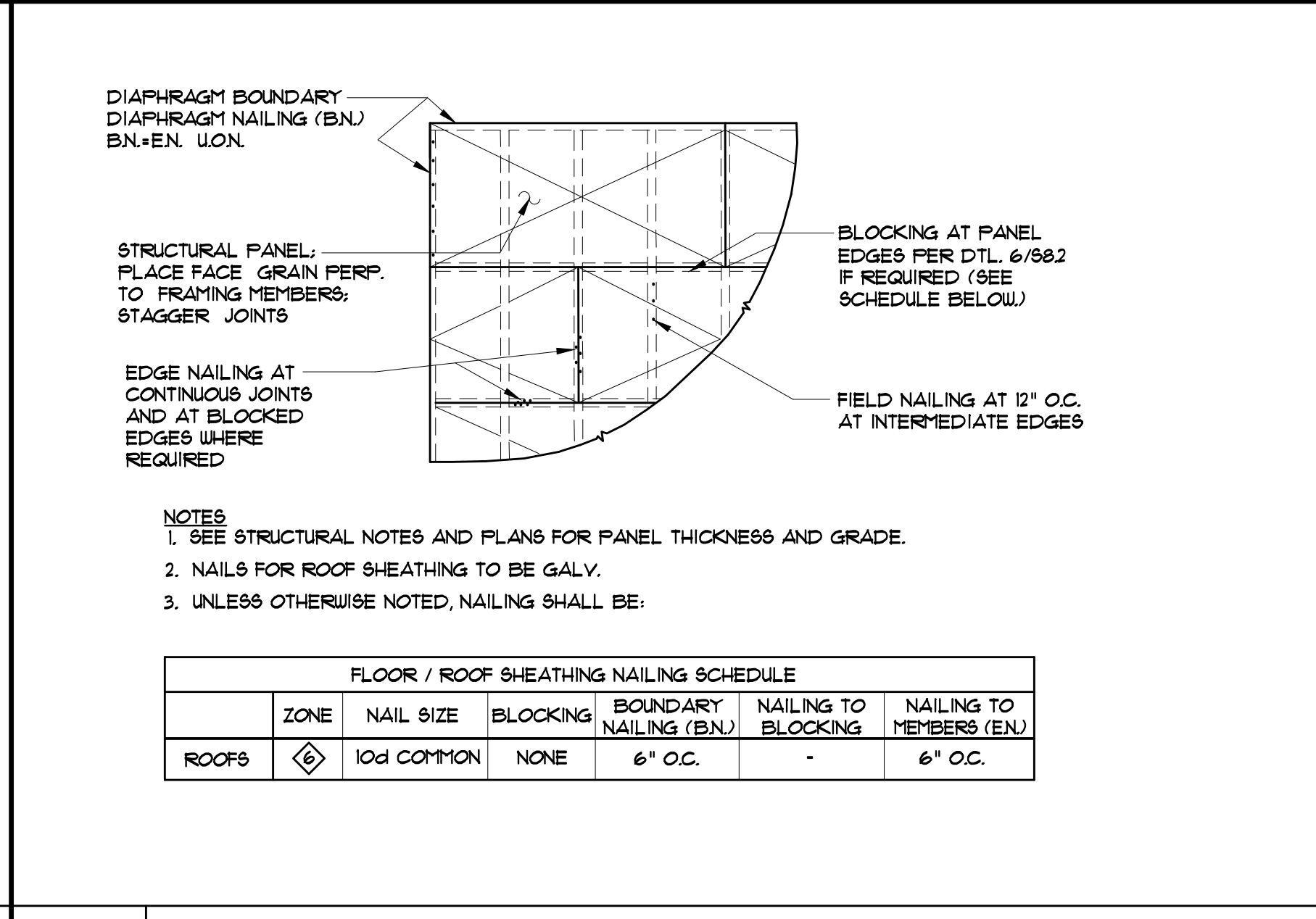
5 SHEAR WALL SCHEDULE

NOTES:

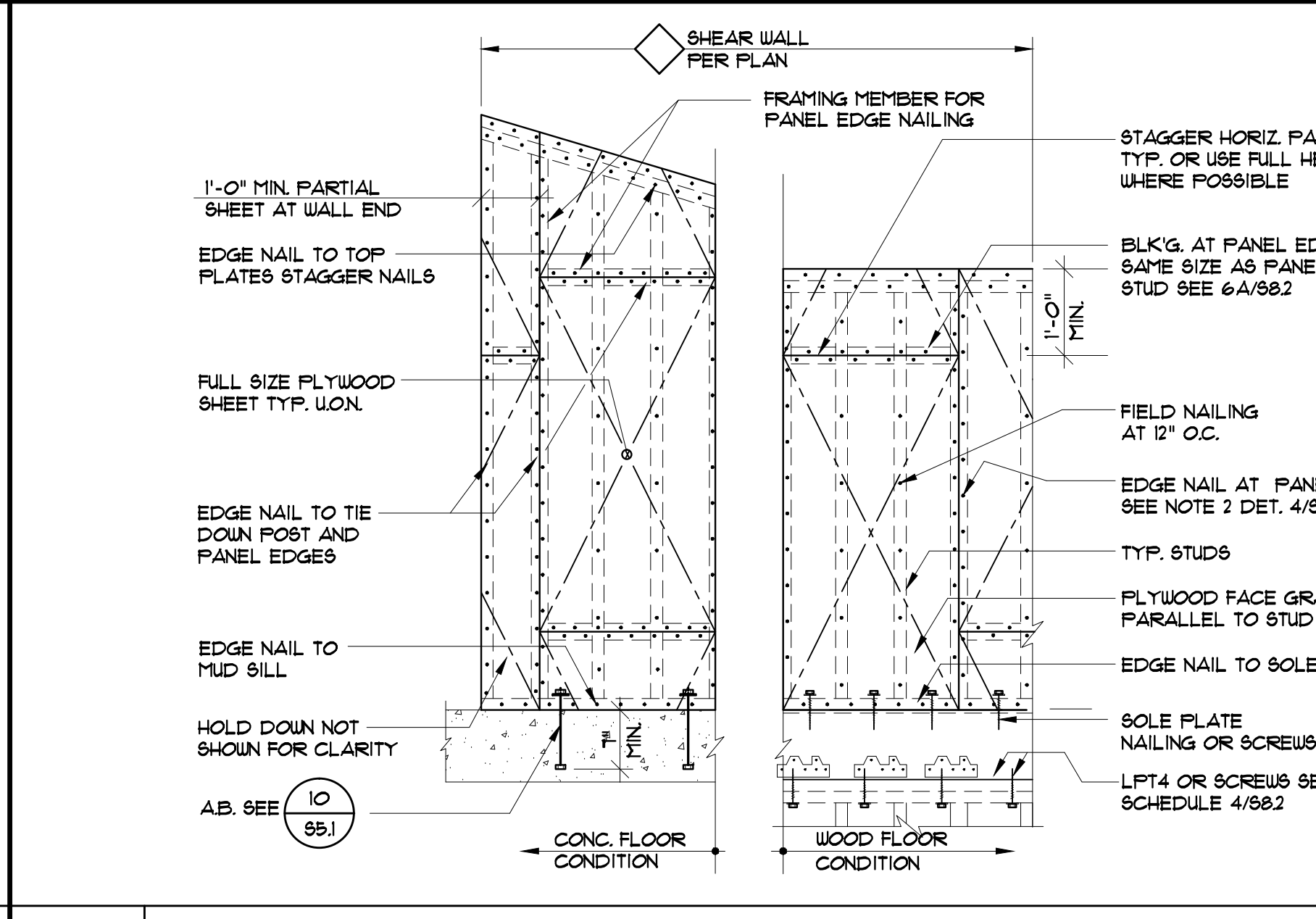
- USE 8d (0.131" DIAM. x 2-1/2" LONG) COMMON WIRE NAILS U.O.N. GALV. FOR EXTERIOR WALLS.
- NUMBER SHOWN IN SYMBOL REPRESENTS PLYWOOD PANEL EDGE NAILING IN INCHES.
- USE A35F OR LTF4 AS ALTERNATE TO A35 U.O.N.
- SEE DETAIL 10/551 FOR ANCHOR BOLT AND BILL DETAIL.
- SEE DETAIL 6/582 FOR BLOCKING AT PANEL EDGES.
- STAGGER NAILS SPACED AT 3" OR CLOSER IN TWO ROWS ON ALL MEMBERS RECEIVING EN. STAGGER ON DBL MEMBERS AND WALL TOP PLATES.
- SEE DETAIL 5/582 FOR ADDITIONAL SHEAR WALL FRAMING INFORMATION.
- SHEAR CLIPS AND SOLE PLATE FASTENING NOT REQUIRED WHERE PLYWOOD WALL SHEATHING IS CONTINUOUS SEE 14 2/583.
- USE OF 2x OR 3x FT. BILL PLATE IS AT CONTRACTOR'S OPTION WHERE NOTED.
- SHEAR CLIPS NOT REQUIRED AT ROOF WHERE THE BLKG IS VERT. AND WALL AND ROOF SHEATHING IS EN. TO THE SAME BLOCK. SEE SPECIFIC ROOF DETAIL FOR APPLICABILITY.



14



10 ROOF / FLOOR SHEATHING FASTENING NO SCALE



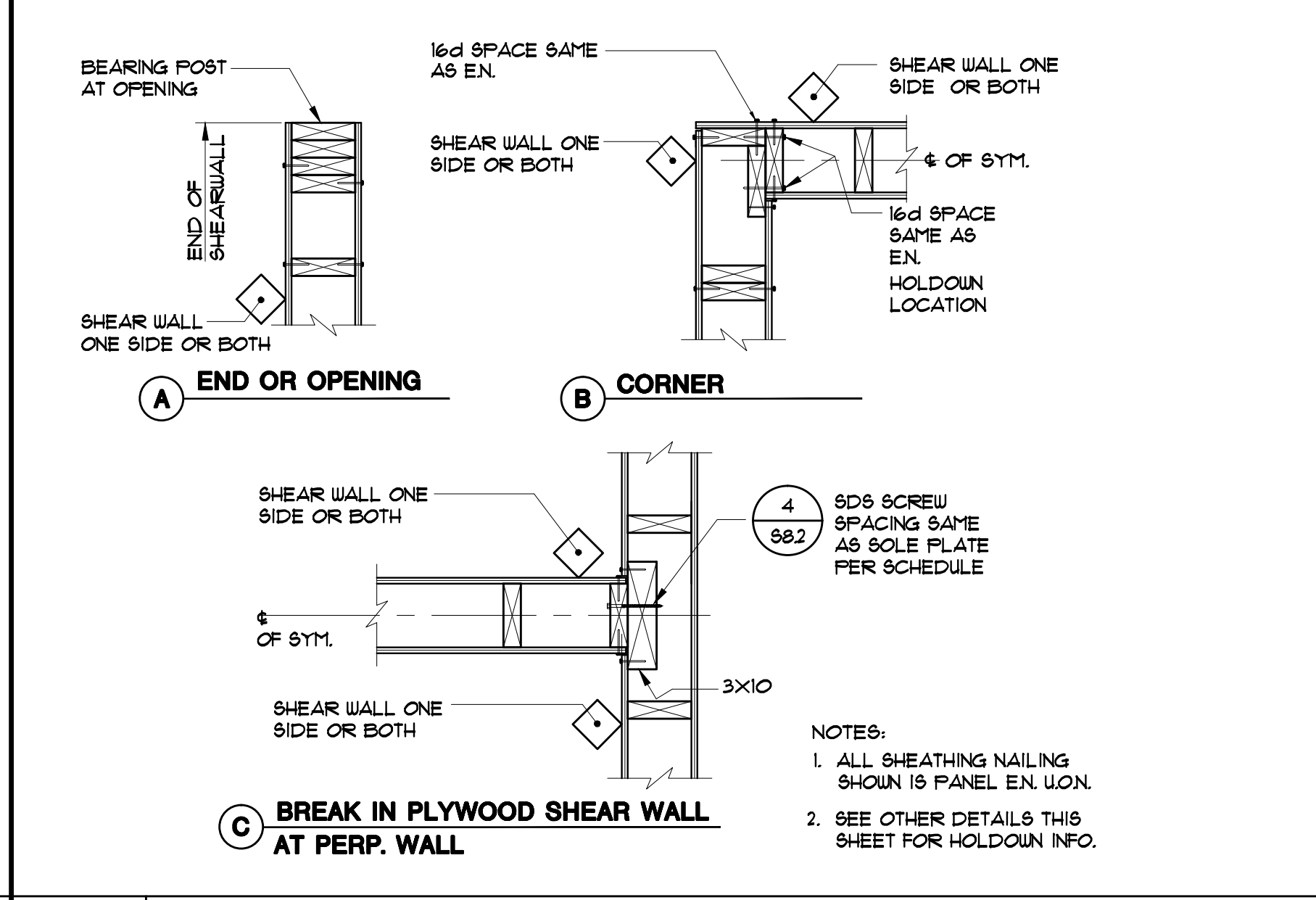
6 SHEAR WALL ELEVATIONS

NOTES:

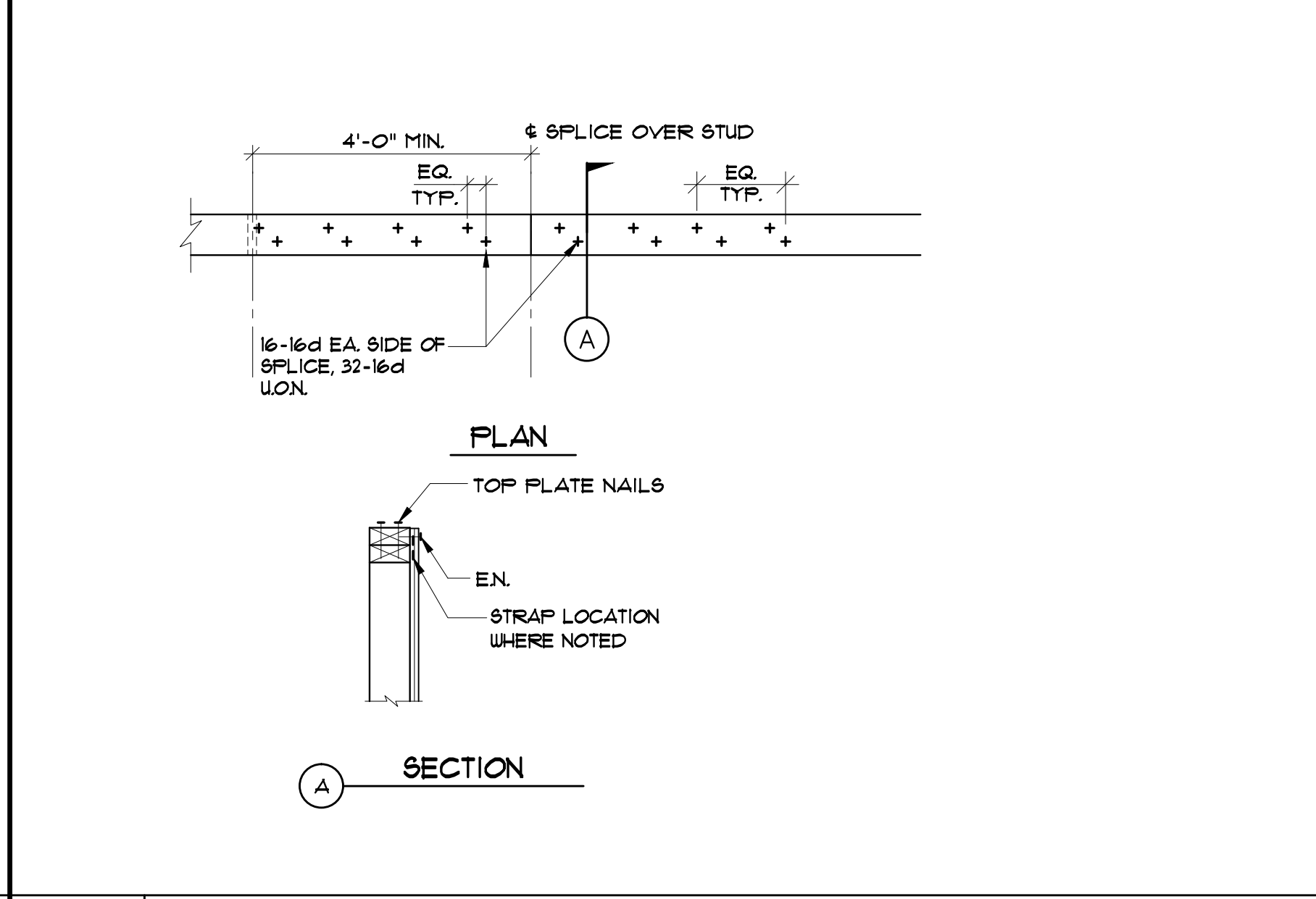
- SEE DETAIL 11/582 FOR SHEARWALLS, CORNERS AND INTERSECTIONS.
- SEE DETAIL 1/582 FOR SPLICE WALL OF TOP PLATES AT SHEARWALLS.
- EDGE NAIL PLYWOOD TO ALL POSTS, WALL PLATES, NAILERS KING STUDS AND HOLD-DOWN STUDS, AND AS SHOWN. STAGGER ON MULTIPLE STUDS WHERE OCCURS.
- SHEATHING PANELS MAY BE INSTALLED HORIZ. OR VERT. AT CONTRACTOR'S OPTION.
- SEE SHEET 510 FOR PANEL THICKNESS AND GRADE.



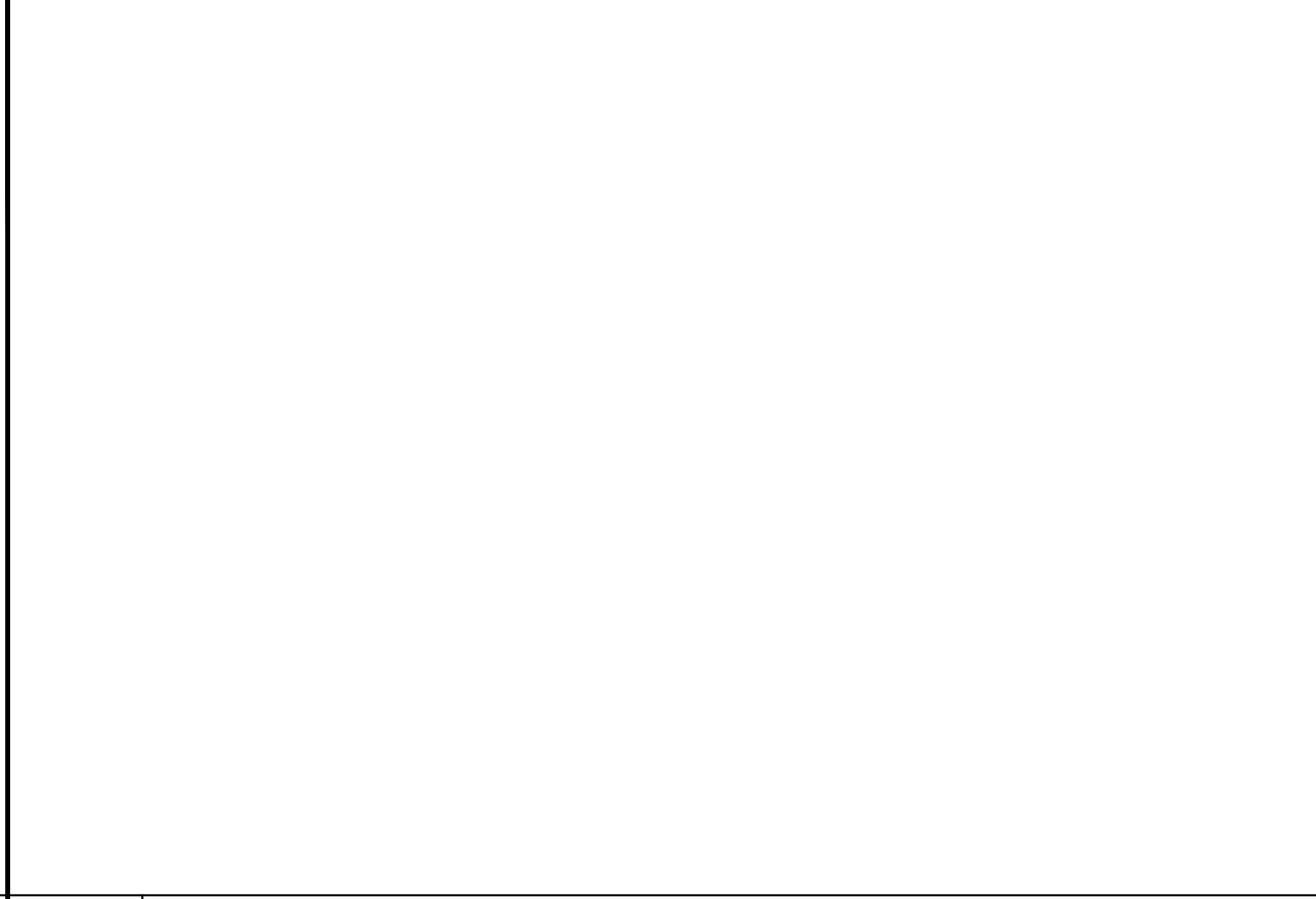
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11 SHEAR TRANSFER AT WALL INTERSECTIONS NO SCALE



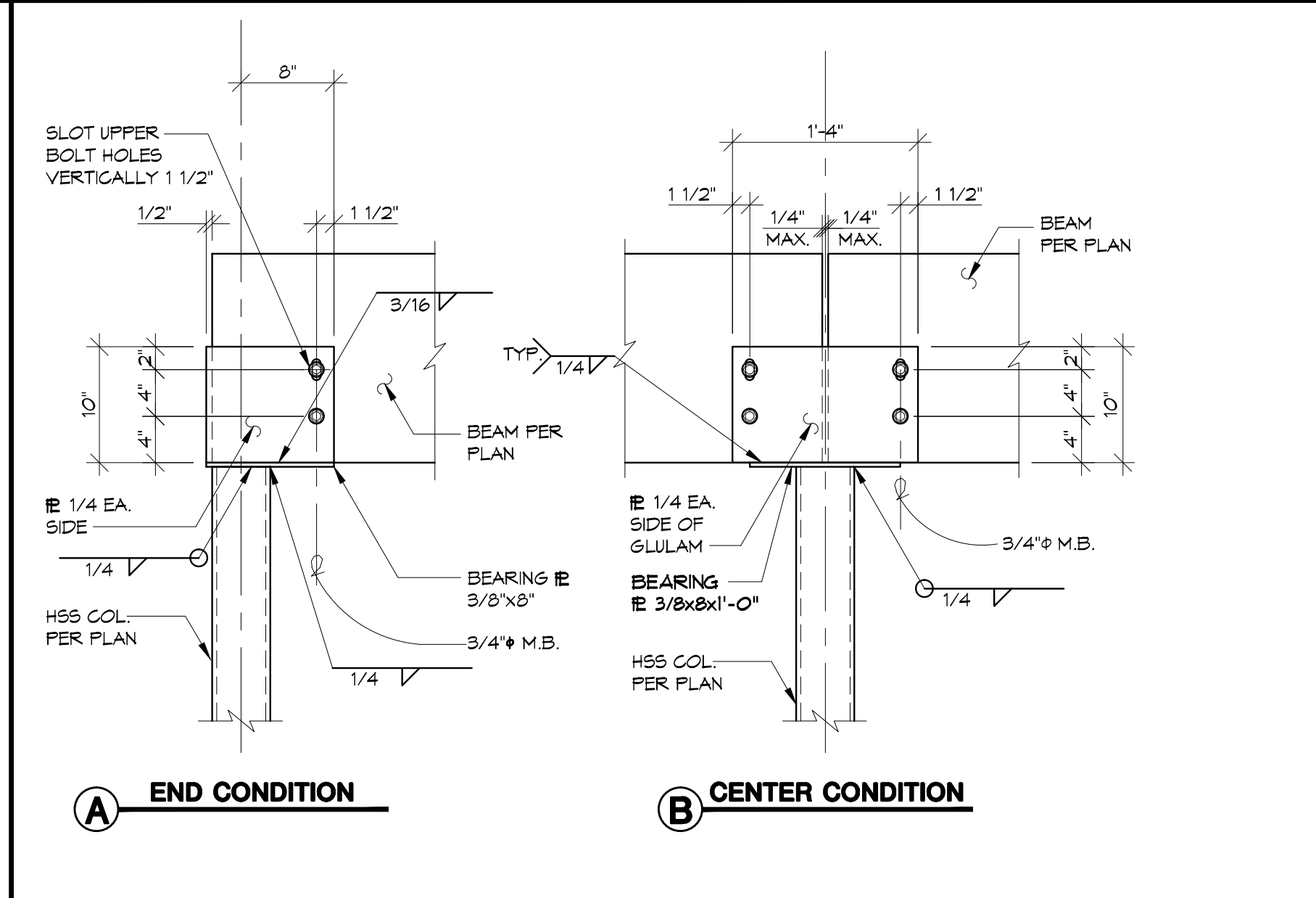
7 TOP PLATE SPLICE AT BEARING OR SHEAR WALLS N.T.S.



3



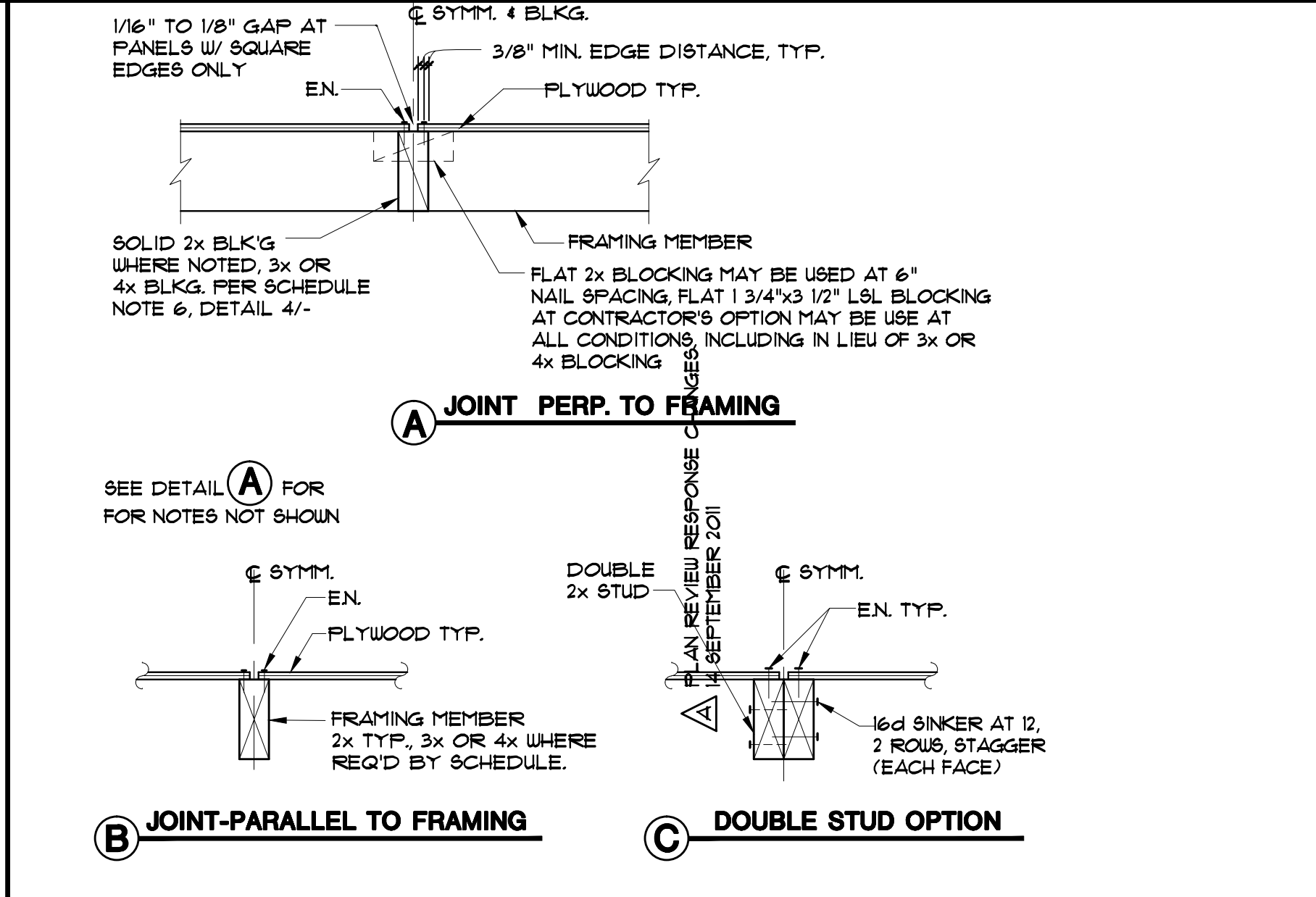
12 BEAM TO HSS COLUMN CONNECTIONS 1"=1'-0"



8



4 PLYWOOD NAILING /BLOCKING DETAILS N.T.S.



16

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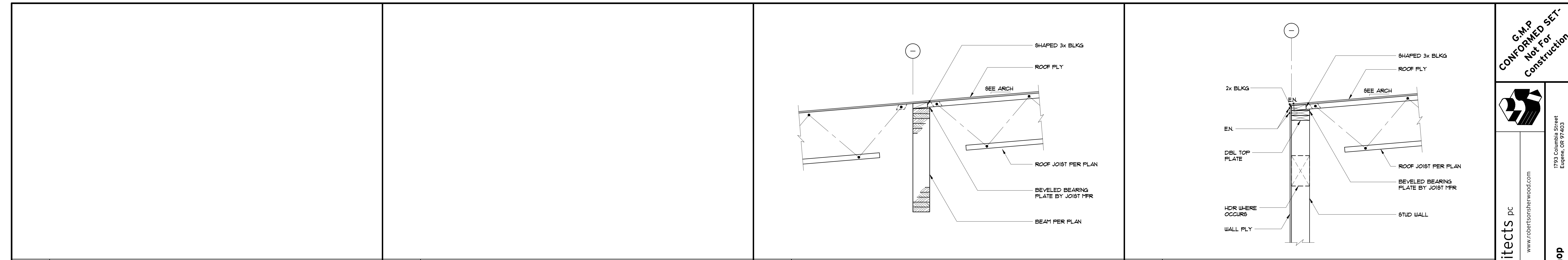
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TYPICAL WOOD FRAMING DETAILS

Drawn By: AMA
Checked: VHB
Date: 7 NOV 2014
Project: 1407

S8.2
HLI Project - 9368.1



13

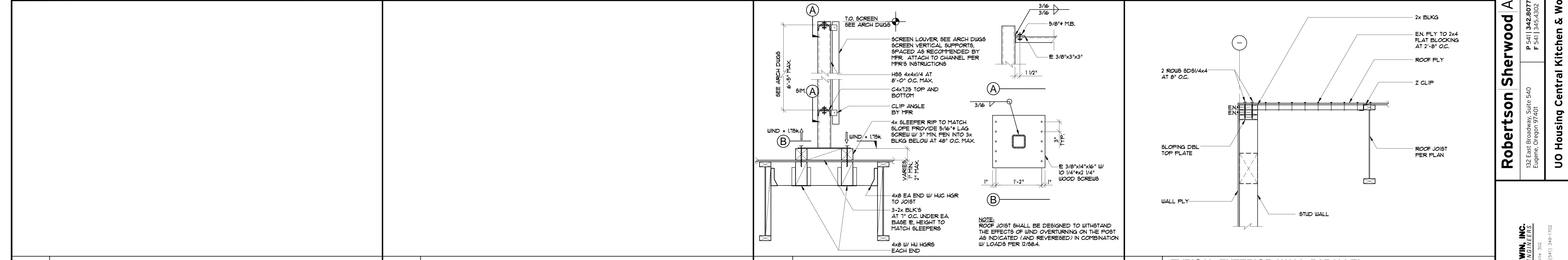
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5

ROOF JOIST TO GLB CONN.

1

TYPICAL EXTERIOR WALL PERP. TO ROOF JOIST



14

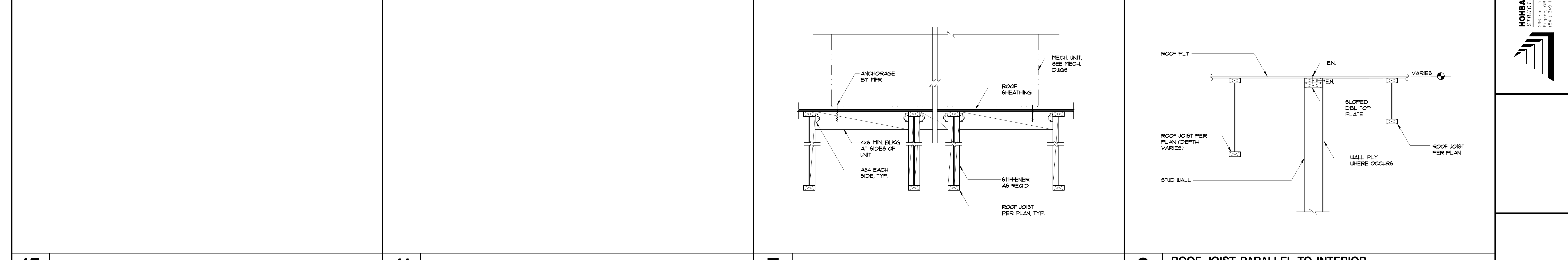
10

6

ROOF SCREW SUPPORT DETAIL

2

TYPICAL EXTERIOR WALL PARALLEL TO ROOF JOIST



15

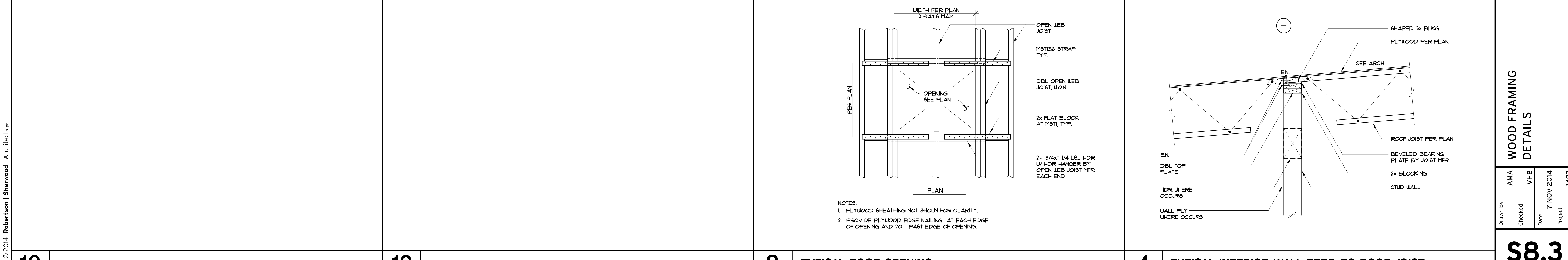
11

7

TYPICAL FRAMING AT MECHANICAL UNIT

3

ROOF JOIST PARALLEL TO INTERIOR SHEAR WALL



16

12

8

TYPICAL ROOF OPENING

4

TYPICAL INTERIOR WALL PERP. TO ROOF JOIST

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WOOD FRAMING DETAILS
 Drawn By: AMA
 Checked: VHB
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 Project: 1407

S8.3
 HLI Project - 93681