

STRUCTURAL NOTES

DESIGN CRITERIA

1. VERTICAL LOADS:

A) DEAD LOADS:	
ROOF.....	24 PSF
FLOOR.....	24 PSF
B) LIVE LOADS (UNREDUCIBLE)	
ROOF.....	20 PSF
FLOOR.....	40 PSF
C) SNOW LOADS:	
ROOF.....	15 PSF

2. LATERAL LOADS:

A) EARTHQUAKE DESIGN DATA:

V = 0.11 W (ASD) (INCLUDES $p=1.0$)	
SEISMIC IMPORTANCE FACTOR.....	=1
OCCUPANCY CATEGORY.....	=II
MAPPED SPECTRAL RESPONSE ACCEL.....	$S_s = 1.536$
	$S_1 = 0.722$
SITE CLASS.....	=D
SPECTRAL RESPONSE COEFF.....	$SDS = 1.024$
	$SD1 = 0.722$
SEISMIC DESIGN CATEGORY.....	=D
RESPONSE MODIFICATION FACTOR.....	=6.5
PLYWOOD SHEAR WALLS	
SEISMIC RESPONSE COEFF.....	=0.158
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE	

B) WIND:

BASIC WIND SPEED.....	110 MPH
SITE EXPOSURE.....	=1.00

REINFORCED CONCRETE

- CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
- AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS: (4" MAX. SLUMP FOR FLATWORK)
- ADDMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM C494 & C1017 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED).
- NO CONDUIT PLACED IN A CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB. NO CONDUIT SHALL BE EMBEDDED IN A SLAB THAT IS LESS THAN 3 1/2" THICK, EXCEPT FOR LOCAL OFFSETS. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE THREE DIAMETERS ON CENTER. (EXCEPT IF THE CONDUIT IS PASSING THROUGH).
- PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH 3/4" CHAMFERS.
- REFER TO DRAWINGS OF OTHER DISCIPLINES FOR MOLDS, GROOVES, CLIPS, ORNAMENTS, OR FOUNDATIONS REQUIRED TO BE CAST INTO CONCRETE.
- ALL SLABS ON GRADE SHALL HAVE CONTROL JOINTS INSTALLED TO PROVIDE APPROXIMATELY 15 FOOT SQUARES UNLESS DETAILED OTHERWISE ON THE PLANS. WHERE CONCRETE POURS ARE STOPPED, THE JOINTS SHALL BE FORMED. SEE "TYPICAL SLAB-ON-GRADE JOINTS DETAIL".

STRUCTURAL WOOD

- ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH GRADE MARKED BY A RECOGNIZED GRADING AGENCY (WCLB & WWPA)
 - JOISTS & PLANKS: NO. 2
 - BEAMS AND STRINGERS: NO. 1
 - POST AND TIMBERS: NO. 1
 - GLUED LAMINATED TIMBERS: COMBINATION 24F-V8
 - PARALLAM, PSL: 2.2E (2900 F)
 - VERTICAL STUDS:
 - 2x4 STUDS, 8'-0" LONG: STUD GRADE
 - 2x4 STUDS, 8'-1" TO 14'-0": NO. 1
 - 2x6 STUDS: NO. 2
 - ALL OTHER LUMBER: "NO. 1 STRUCTURAL" LIGHT FRAMING
- ALL SILL PLATES RESTING ON CONCRETE OR MASONRY, WHICH IS IN CONTACT WITH EARTH OR RESTING ON FOUNDATIONS SHALL BE PRESSURE TREATED DOUGLAS FIR (P.T.D.F.). ALL FASTENERS SUCH AS NAILS, BOLTS, SCREWS, ANCHOR BOLTS, ETC. ATTACHING P.T.D.F. OR FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED ZINC COATED GALVANIZED OR STAINLESS STEEL (ASTM A153), WHERE STUD PARTITIONS JOIN CONCRETE OR MASONRY WALLS THE END STUD SHALL BE ANCHORED THERETO WITH 1/2" BOLTS NEAR THE TOP & BOTTOM AND AT EACH ROW OF FIRE BLOCKING. SUCH BOLTS SHALL BE EMBEDDED IN THE WALL NOT LESS THAN 2/3 OF THE WALL THICKNESS OR 8" MAX.) CUTTING, NOTCHING, OR BORING OF STUDS SHALL BE PERMITTED ONLY AS DETAILED OR APPROVED BY ENGINEER AND/OR PER 2015 NDS. SEE ALSO 1053.3.
- ALL NAILING SHALL CONFORM TO CBC TABLE 2304.9.1, AND SHALL BE COMMON NAILS, UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
- ALL BOLT HEADS AND NUTS BEARING ON WOOD SHALL HAVE STANDARD CUT WASHERS. HOLES FOR BOLTS SHALL BE BORED 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER.
- TOP PLATES OF ALL WOOD STUD WALLS TO BE 2x2x MINIMUM (SAME WIDTH AS STUDS), LAP 48" MIN. WITH NOT LESS THAN 6-16d NAILS AT EACH LAP AND NOT MORE THAN 12" BETWEEN NAILS. PLYWOOD SHALL BE APA STRUCTURAL I RATED SHEATHING WITH EXTERIOR GLUE.
- PROVIDE DOUBLED JOISTS UNDER ALL PARALLEL PARTITIONS.
- ALL LAG SCREWS TO BE PREDRILLED, DRILL DIAMETER TO BE 60 PERCENT OF SHANK DIAMETER.
- RE-TIGHTEN ALL ANCHOR BOLTS JUST BEFORE CLOSING IN.
- ALL FRAMING ANCHORS, POST CAPS, BASES, HANGERS, STRAPS, ETC. SHALL BE AS MANUFACTURED BY "SIMPSON COMPANY" OR ENGINEER APPROVED EQUALS.
- PROVIDE BLOCKING OR BRIDGING PER 2015 NDS SECTION 4.4.1.
- MOISTURE CONTENT OF WOOD AT TIME OF PLACING SHALL NOT EXCEED 19 PERCENT.
- MACHINE BOLTS AND ANCHOR BOLTS SHALL BE GRADE-A CONFORMING TO ASTM A307. NUTS FOR MACHINE BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A563. HEX GRADE-A, THREADED RODS SHALL CONFORM TO ASTM A36. ROUND WASHERS SHALL CONFORM TO ASTM F436 AND SQUARE PLATE WASHERS SHALL CONFORM TO ASTM A36.

SPECIAL INSPECTION

- SPECIAL INSPECTION SHALL MEET THE REQUIREMENTS OF CBC SECTION 1704.
- SPECIAL INSPECTORS SHALL:
 - A. BE UNDER THE SUPERVISION OF A CALIFORNIA REGISTERED CIVIL ENGINEER.
 - B. OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.
 - C. FURNISH INSPECTION REPORTS TO THE ENGINEER AND BUILDING DEPARTMENT. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN IF NOT CORRECTED, TO THE ENGINEER AND BUILDING DEPARTMENT.
 - D. SUBMIT TO THE ENGINEER AND BUILDING DEPARTMENT A FINAL REPORT, SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER, STATING THAT THE WORK WAS IN CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CBC.
- INSPECTION NOTES:
 - A. CONSTRUCTION INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY CBC SECTION 109, APPENDIX CHAPTER 1. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A BUILDING OFFICIAL. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT APPROVAL OF THE BUILDING OFFICIAL IS SUBJECT TO REMOVAL OR EXPOSURE.
 - B. CONTINUOUS INSPECTION IS ALWAYS REQUIRED DURING PERFORMANCE OF THE WORK UNLESS SPECIFICALLY NOTED.
 - C. SPECIAL INSPECTORS MUST BE CERTIFIED BY THE BUILDING DEPARTMENT TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED.
 - D. IT IS THE RESPONSIBILITY OF THE OWNER TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY BEFORE PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.

SPECIAL INSPECTION REQUIRED

1. ANCHORS, ANCHOR BOLTS, & DOWELS

- VERIFY MANUFACTURERS INSTALLATION REQUIREMENTS (AND TESTING) OF EPOXY DOWELS IN CONCRETE AT (HOLD-DOWNS) (EXISTING FOOTINGS) (CONCRETE REPAIRS).
- VERIFY MANUFACTURERS INSTALLATION REQUIREMENTS OF WEDGE AND SLEEVE ANCHORS (WHERE INDICATED).

GENERAL

- NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THESE STANDARD STRUCTURAL NOTES. DETAILS NOTED AS "TYPICAL" SHALL BE USED WHENEVER APPLICABLE. REFER TO SPECIFICATION FOR INFORMATION NOT COVERED BY THESE NOTES OR DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK, AND THE ENGINEER/ARCHITECT SHALL BE IMMEDIATELY NOTIFIED, IN WRITING, OF ANY DISCREPANCIES. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
- ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF, AND RESOLVED WITH, THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INDICATED.
- WHERE A CONSTRUCTION DETAIL IS NOT SPECIFICALLY SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED, BEFORE BEGINNING EXCAVATION.
- NO PIPES, DUCTS, SLEEVES, CHASES, ETC. SHALL BE PLACED IN OR THRU SLABS, BEAMS, OR WALLS, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC. EXCEPT AS INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE 2016 CBC.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- RETAIL A CALIFORNIA REGISTERED CIVIL ENGINEER TO DESIGN ALL TEMPORARY BRACING, SHORING, AND SUPPORT REQUIRED DURING CONSTRUCTION.
- INCLUDE ENGINEERING FEES, ENGINEERING DESIGN TIME AND BUILDING DEPARTMENT APPROVAL TIME IN THE COST OF PROPOSED MATERIAL ALTERNATES. CONTACT ENGINEER FOR FEE AMOUNT. SUBMIT MATERIAL ALTERNATE FOR REVIEW BEFORE CONSTRUCTION.

FOUNDATION

SOILS INFORMATION:

- SOIL DESIGN PRESSURES:
 - PREPARED BY: BRUN GEOTECHNICAL SERVICES, INC. PROJECT # APN 3107-012-905, JAN. 31, 2018.
 - ALLOWABLE BEARING PRESSURE: 1200 PSF (1/3 INCREASE FOR WIND OR SEISMIC)
 - LATERAL EQUIVALENT FLUID PRESSURE: N/A
 - LATERAL BEARING PRESSURE: 150 PCF
 - FRICTIONAL FACTOR: 0.25
- BOTTOM OF FOOTING SHALL BE AT LEAST 24 INCHES BELOW LOWEST ADJACENT FINISHED GRADE INTO NATURAL GRADE OR ENGINEERED.
- REFER TO AND CHECK WITH ARCHITECTURAL DRAWINGS FOR VARIOUS FLOOR SLOPES, DROPPED SLABS, DEPRESSIONS, CURBS, STEPS, WALKS, DRAINS, DEPRESSED FLOOR, ETC. & DIMENSIONS NOT SHOWN.
- NO CONCRETE SHALL BE POURED IN ANY FOUNDATION UNTIL EXCAVATION HAS BEEN INSPECTED, EXCAVATION SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER.
- ALL SLEEVES THROUGH FOUNDATION WALLS AND UNDER FOOTING TO BE INSTALLED PRIOR TO FOUNDATION POUR. SEE DETAIL.
- NO SLEEVING OF ANY GRADE BEAM WILL BE PERMITTED UNLESS SHOWN ON STRUCTURAL DRAWINGS APPROVED BY THE ENGINEER.
- THE ENGINEER HAS NO CONTROL OR RESPONSIBILITY FOR THE DESIGN OF TEMPORARY SHORING, SCAFFOLDING, FORMING, UNDERPINNING, ETC., NOT DETAILED ON THESE PLANS.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE (OR GRATE) HAS ATTAINED FULL DESIGN STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL BUILDING AND PIT WALLS BELOW GRADE FROM LATERAL LOADS UNTIL ATTACHING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED FULL STRENGTH. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OF SUCH BRACING.
- CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS. NOTIFY STRUCTURAL ENGINEER, PRIOR TO FABRICATION OR ERECTION, WHEN DISCREPANCIES ARE FOUND.

REINFORCED STEEL

- NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOOTING STEEL OFF THE GROUND. PRECAST CONCRETE DOBIES ARE APPROVED.
- BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
- BAR REINFORCEMENT THAT IS TO BE WELDED SHALL BE ASTM A706, GRADE 60. WELDING OF REINFORCING BARS SHALL CONFORM TO AWS D1.4-92 AND CBC STANDARD 19-1. E90XX ELECTRODES SHALL BE USED. SPECIAL INSPECTION IS REQUIRED FOR ALL FIELD WELDING.
- SPICES IN REINFORCING STEEL SHALL LAP AS FOLLOWS, UNLESS NOTED OTHERWISE:
 - #3 THROUGH #6 = 48 DIA. #7 THROUGH #9 = 68 DIA. #10 THROUGH #11 = 86 DIA.
- HORIZONTAL SPICES SHALL BE STAGGERED. NON-CONTACT SPICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART 1/5 THE REQUIRED LAP SPICE LENGTH, OR 6 INCHES.
- THE CLEAR DISTANCE BETWEEN PARALLEL BARS SHALL BE FOUR BAR DIAMETERS BUT NO LESS THAN 1 1/2" O.N. IN WALLS AND SLABS OTHER THAN CONCRETE JOIST CONSTRUCTION. REINFORCEMENT SHALL BE SPACED NOT FARTHER APART THAN THREE TIMES THE WALL OR SLAB THICKNESS, NOR 18 INCHES.
- REINFORCING STEEL SHALL HAVE A PROTECTED CONCRETE COVERING AS FOLLOWS, UNLESS NOTED OTHERWISE:
 - WALL STEEL BELOW GRADE: ON DIRT SIDE WHEN POURED AGAINST DIRT - 3" ON DIRT SIDE WHEN FORMED = 2"
 - WALL STEEL ABOVE GRADE: IN ALL OTHER CASES = 1-1/2"
 - FOOTING PADS = 3"
 - SLABS (ON EARTH) = 2"
 - SLABS (LIGHT WEIGHT CONCRETE) = 3/4"
 - SLABS (HARD ROCK CONCRETE) = 1"
 - JOISTS (SIDES, TOPS & SOFFITS) = 1"
 - COLUMNS (TO MAIN STEEL) = 2"
 - BEAMS, GIRDERS (SIDES, TOPS AND SOFFITS) = 2"
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE LAPPED 12 INCHES MINIMUM.
- ALL WALLS SHALL BE DOWELED TO SUPPORTING FOOTINGS, BEAMS, PADS, ETC., WITH BARS THE SAME SIZE AND SPACING AS VERTICAL BARS IN THE WALL UNLESS OTHERWISE DETAILED. ANCHORAGE OF DOWELS SHALL BE EQUIVALENT OF A BAR SPICE.
- DOWEL REINFORCED SLABS TO WALLS AND OTHER EDGE MEMBERS PER TYPICAL DETAILS.
- ALL REINFORCING STEEL IS TO BE PLACED IN RELATIVE POSITION SHOWN ON DRAWINGS. NO SPICES IN ANY REINFORCING WILL BE PERMITTED EXCEPT THOSE SHOWN ON THE STRUCTURAL DRAWINGS.
- REINFORCING DETAILING, BENDING, AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTES' MANUAL OF STANDARD PRACTICE, LATEST EDITION.
- ALL REINFORCING STEEL ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE WELL SECURED IN POSITION WITH WIRE POSITIONERS BEFORE PLACING CONCRETE OR GROUT. VERTICAL BARS IN MASONRY WALLS SHALL BE TIED IN POSITION AT THE TOP AND BOTTOM AND INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.

COLD-FORMED STEEL FRAMING

- DESIGN, MANUFACTURE, AND INSTALLATION OF LIGHT GAGE, COLD-FORMED STEEL JOISTS, PURLINS, AND STUDS SHALL CONFORM WITH CBC CHAPTER 22 SECTIONS 220 & 221.
- STRUCTURAL LIGHT GAGE STUDS, TRACK, BRIDGING, AND ACCESSORIES SHALL BE AS SPECIFIED IN THE "STEEL STUD MANUFACTURERS ASSOCIATION" MANUAL (ICC # R 2457P) OR AN ENGINEER APPROVED EQUAL AND BE FABRICATED USING THE FOLLOWING MATERIALS:
 - A) 12, 14, AND 16 GAGE MEMBERS: ASTM A570, GRADE 50 (50KSI)
 - B) 18 AND 20 GAGE MEMBERS: ASTM A611, GRADE C (33 KSI)
- ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL." QUALIFICATIONS OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1 CHAPTER 5, PART C, "WELDER QUALIFICATION." USE E70XX ELECTRODES.
- SEE LATEST EDITION OF THE AISI SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS* FOR ALLOWABLE WELD VALUES.
- PROVISIONS FOR POSSIBLE VERTICAL MOVEMENT OF FLOORS AT WALLS SHALL BE BY USE OF "SLIDE CLIPS."
- TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED UNTIL ERECTION IS COMPLETE AND SAFELY SECURED TO STRUCTURE.
- CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH DETAILS PROVIDED AND CBC LOADS AND DEFLECTION CRITERIA. CALCULATIONS AND DRAWINGS SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER SHALL BE SUBMITTED TO AND REVIEWED BY THE ENGINEER AND BUILDING DEPARTMENT BEFORE FABRICATION.
- ALL FLOOR, CEILING, AND ROOF JOISTS SHALL BE UNPINCHED.
- ALL FASTENER ("TEK") SCREWS SHALL BE "KWIK FLEX" SELF DRILLING SCREWS PER ICC E5 ESR # 2196 OR AN APPROVED EQUIVALENT.

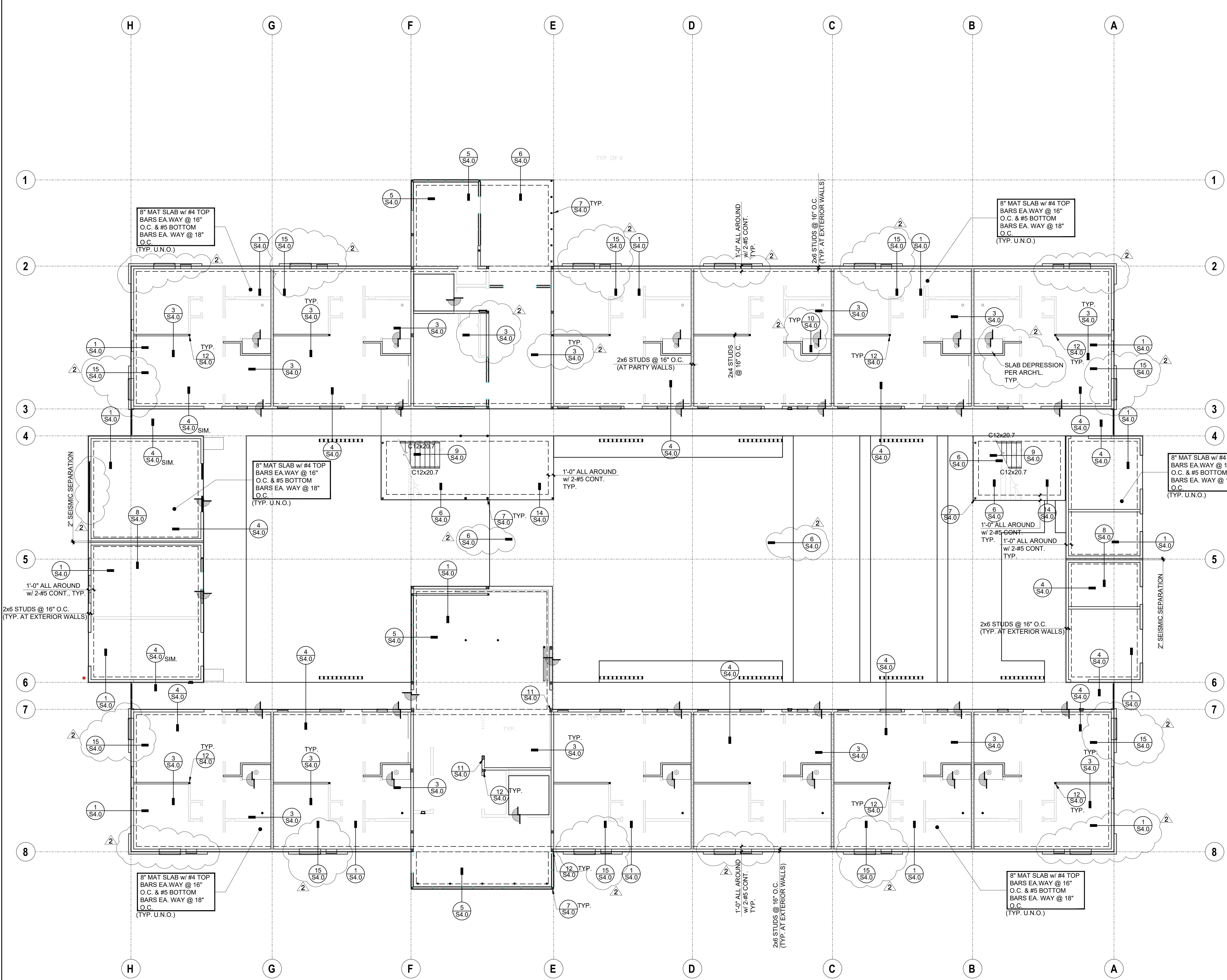
STRUCTURAL ABBREVIATIONS

A.B.	ANCHOR BOLT	FAB.	FABRICATION	PAR. (//)	PARALLEL
ABV.	ABOVE	FND.	FOUNDATION	P/C	PRECAST CONCRETE
ADD.	ADDITIONAL	FIN.	FINISHED	PER. (L)	PERPENDICULAR
ADJ.	ADJACENT	FLG.	FLANGE	PL. (Ø)	PLATE
ALUM.	ALUMINUM	FLR.	FLOOR	PSL.	PARALLEL STRAND LUMBER
ALT.	ALTERNATE	F.N.	FIELD (FACE) NAIL	P.W.	PLYWOOD
APPRX.	APPROXIMATE(LY)	F.O.C.	FACE OF CONCRETE	P.S.F.	POUNDS PER SQUARE FOOT
ARCH.	ARCHITECT(URAL)	F.O.M.	FACE OF MASONRY	P.S.I.	POUNDS PER SQUARE INCH
& OR {	AND	F.O.S.	FACE OF STUD	P.T.	PRESSURE TREATED
	AT	F.O.W.	FACE OF WALL	P.T.	POSTTENSIONED (PRESTRESSED)
		FRM.	FRAMING(S)		
BEL.	BELOW	F.S.	FACE SIDE		
B.F.	BRACED FRAME	FT. (')	FOOT (FEET)	QTY.	QUANTITY
BLDG.	BUILDING	FTG.	FOOTING		
BLK.	BLOCK	F.V.	FIELD VERIFY	RAD. (R)	RADIUS
BLKG.	BLOCKING	G.A.	GAUGE	R.C.P.	REINFORCED CONCRETE PIPE
BM.	BEAM	GALV.	GALVANIZED	REF.	REFERENCE
B.N.	BOUNDARY NAILING	GB.	GRADE BEAM	REF.	REINFORCEMENT(ING)
BNDRY.	BOUNDARY	GLB.	GLUED LAMINATED BEAM	REIN.	REQUIRED
B.O.F.	BOTTOM OF FOOTING	GRD.	GRADE	R.F.	RIGID FRAME
BRDG.	BRIDGE(ING)	GYPDB.	GYPSPUM WALLBOARD	R.O.	ROUGH OPENING
BRG.	BEARING			R.B.	RIDGE BOARD
BTM.	BOTTOM	HD	HOLD DOWN	SCHED.	SCHEDULE
BTWN.	BETWEEN	HDR.	HEADER	SCHT.	SHEET
		HGR.	HANGER	SHG.	SHEATHING
CAMB. (C)	CAMBERED	HORZ. (H)	HORIZONTAL	SM.	SIMILAR
CANT.	CANTILEVERED	HSB.	HIGH STRENGTH BOLTS	SKW.	SKWEEED
C.F.	CUBIC FEET (FOOT)	HT.	HEIGHT	SPC.	SPACES(ING)
C.G.	CENTER OF GRAVITY			SPEC.	SPECIFICATION(S)
C.I.P.	CAST IN PLACE	I.D.	INSIDE DIAMETER	SQ.	SQUARE
C.J.	CONSTRUCTION JOINT	I.E.	INVERT ELEVATION	SS	SELECT STRUCTURAL
CL. OR (C)	CENTER LINE	I.F.	INSIDE FACE	STD.	STANDARD
CLG.	CEILING	IN. (")	INCHES	STR.	STAGGERED
CLR.	CLEAR	INT.	INTERIOR	STIFF.	STIFFENERS
CMU.	CONC. MASONRY UNIT			STIR.	STIRRUPS
COL.	COLUMN	JST.	JOIST	STL.	STEEL
CONC.	CONCRETE	JT.	JOINT	STR.	STRUCTURAL
CONN.	CONNECTION			SUSP.	SUSPENSION(ION)
CONST.	CONSTRUCTION	K	KIPS (1000)	SYMM.	SYMMETRICAL
CONT.	CONTINUOUS	LA.	LATERAL	(T)	TOP
CTR.	COUNTERSINK	LB.	POUNDS	T & B	TOP AND BOTTOM
C.Y.	CUBIC YARD	L.B.	LAG BOLTS	T & P	TEMPERATURE
		LDGR.	LEDGER	T & G	TONGUE AND GROOVE
d	PENNY(N)ALS	L.F.	LINEAR FEET (FOOT)	TH.	THICKNESS
DBL.	DOUBLE	L.G.	LONGI(TUDINAL)	THRD.	THREADED
DEPT.	DEPARTMENT	LGH.	LENGTH	TMPLY.	TEMPORARY
D.F.	DOUGLAS FIR	LLH.	LONG LEG HORIZ.	T.A.	TOE NAIL
DIA. (Ø)	DIAMETER	LLV.	LONG LEG VERT.	T.O.S.	TOP OF SHEATHING
DIAG.	DIAGONAL	LT.WT.	LIGHT WEIGHT	T.O.W.	TOP OF WALL
DIAPH.	DIAPHRAGM			TRANSV.	TRANSVERSE
DN.	DOWN	MAS.	MASONRY	T.P.	TOP OF STEEL
		MATL.	MATERIAL	TYP.	TYPE
		MAX.	MAXIMUM	UBC	UNIFORM BUILDING CODE
DP (D)	DEEP (DEPTH)	M.B.	MACHINE BOLT		UNLESS NOTED OTHERWISE
DRAWING(S)	DRAWING(S)	MECH.	MECHANICAL		
DWL.	DOWELS	MEZZ.	MEZZANINE	VERT.	VERTICAL
		MFR.	MANUFACTURER	VERIFY.	VERIFY IN FIELD
EA.	EACH	MISC.	MISCELLANEOUS	VP	VERIFY IN FIELD
E.F.	EACH FACE	MIN.	MINIMUM	W.	WIDE
E.J.	EXPANSION JOINT	MIN.	MINI-LAMB.	W.	WITH
EL.	ELEVATION	MTL.	METAL	WD.	WOOD
ELEC.	ELECTRICAL			W.P.	WORK POINT
ELEV.	ELEVATOR	(N)	NEW	WPJ	WEAKENED PLANE JOINT
EMB.	EMBED(MENT)	NO. (#)	NUMBER	W.S.	WELDED STUD(S)
END.	EDGE NAIL/SCREWS	N.S.	NEAR SIDE	WT.	WEIGHT
ENG.	ENGINEER	N.S.G.	NON-SHRINK GROUT	WWF	WELDED WIRE FABRIC
E.S.	EDGE SCREWS	N.T.	NOT TO SCALE	X-STG	EXTRA STRONG
EQ.	EQUAL			XX-STG	DOUBLE EXTRA STRONG
EQPT.	EQUIPMENT	O.C.	ON CENTER		
EXP.	EXPANSION	O.D.	OUTSIDE DIAMETER		
EXT.	EXISTING	O.F.	OUTSIDE FACE	YD.	YARD
EXT.	EXTERIOR	O.H.	OPPOSITE HAND		
		OPNG.	OPENING		
		ORNT.	ORIENTATE(ION)		
		OWJ.	OPEN WEB JOISTS		

DEFERRED SUBMITTAL ITEMS

- WOOD ROOF TRUSSES
- STEEL STAIRS AND HANDRAILS
- CALCULATIONS AND DRAWINGS SIGNED BY A CALIFORNIA REGISTERED PROFESSIONAL ENGINEER SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER AND BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. (DRAWINGS NEED NOT BE SIGNED FOR OPEN-WEB-STEEL JOISTS AND GIRDERS)
- THE DEFERRED APPROVAL ITEM SHALL BE DESIGNED IN ACCORDANCE WITH THE LOAD AND DEFLECTION CRITERIA SHOWN ON THESE CONSTRUCTION DOCUMENTS.
- THE LAYOUT OF THE DEFERRED SUBMITTAL ITEMS IS SHOWN ON THESE PLANS FOR SCHEMATIC REASONS ONLY. TO MEET THE DESIGN AND LOAD REQUIREMENTS SHOWN ON THESE PLANS, MULTIPLE MEMBERS MAY BE REQUIRED WHERE ONLY ONE IS SHOWN. THESE ADDITIONAL MEMBERS SHALL BE ACCOUNTED FOR BY THE SUPPLIER.
- DETAILS FOR DEFERRED SUBMITTAL ITEMS ARE FOR SCHEMATIC REASONS ONLY. WHERE NO DIMENSIONAL INFORMATION IS GIVEN, DIMENSIONS SHALL BE DETERMINED BY THE SUPPLIER. IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS.
- SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS
- ALL BRIDGING, BRACING, SHORING, AND CONNECTIONS NOT SHOWN ASSOCIATED WITH THE DEFERRED SUBMITTAL ITEM SHALL BE CONSIDERED AND DESIGNED AS PART OF THAT ITEM.
- ALLOW 3-4 WEEKS FOR DEFERRED ITEM REVIEW BY BUILDING DEPARTMENT.
- CONTRACTOR SHALL INCLUDE ENGINEERING FEES AND ENGINEERING REVIEW TIME, IN THE COST OF DEFERRED APPROVAL SUBMITTALS ITEMS IF THEY REQUIRE ENGINEERING SEAL OVERSTAMPING.

TABLE NO. 2304.9.1-NAILING SCHEDULE			
CONNECTION	FASTENINGS ¹		LOCATION
1. JOIST TO SILL OR GIRDER	3-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		TOENAIL
2. BRIDGING TO JOIST	2-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		TOENAIL EACH END
3. 1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2 1/2"x0.131")		FACE NAIL
4. WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST	3-8d COMMON (2 1/2"x0.131")		FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS AT 16" O.C. 3-3/4" 14 GAGE STAPLES AT 16" O.C.		BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING	3-1/2" 14 GAGE STAPLES AT 12" O.C.		TYPICAL FACE NAIL
SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANEL	3-1/8" (3 1/2"x0.135") AT 16" 4-3"x0.131" NAILS AT 16" 4-3/4" 14 GAGE STAPLES PER 16" 2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		BRACED WALL PANELS
7. TOP PLATE TO STUD	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		END NAIL
8. STUD TO SOLE PLATE	4-8d COMMON (2 1/2"x0.131") 4-3/4" 13" NAILS 3-3/4" 14 GAGE STAPLES		TOENAIL
9. DOUBLE STUDS	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS AT 24" O.C. 3"x0.131" NAILS AT 8" O.C. 3"x14 GAGE STAPLES AT 8" O.C.		FACE NAIL
10. DOUBLE TOP PLATE	16d (3 1/2"x0.135") AT 16" O.C. 3"x0.131" NAILS AT 12" O.C. 3"x14 GAGE STAPLES AT 12" O.C.		TYPICAL FACE NAIL
DOUBLE TOP PLATE	2-16d COMMON (3 1/2"x0.162") 16-3"x0.131" NAILS 12-3/4" 14 GAGE STAPLES		LAP SPlice
11. BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE	2-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		TOENAIL
12. RM JOIST TO TOP PLATE	8d (2 1/2"x0.131") AT 8" O.C. 3"x0.131" NAILS AT 8" O.C. 3"x14 GAGE STAPLES AT 8" O.C.		TOENAIL
13. TOP PLATES,LAPS AND INTERSECTIONS	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		FACE NAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		16" O.C. ALONG EDGE
15. CEILING JOIST TO PLATE	2-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		TOENAIL
16. CONTINUOUS HEADER, TO STUD	4-8d COMMON (2 1/2"x0.131") 2-16d COMMON (3 1/2"x0.162") MIN. TABLE 2308.10.4.1		TOENAIL
17. CEILING JOIST LAPS OVER PARTITIONS (see Section 2308.10.4.1 Table 2308.10.4.1)	4-3/4" 14 GAGE STAPLES 4-3/4" 14 GAGE STAPLES 4-3/4" 14 GAGE STAPLES		FACE NAIL
18. CEILING JOIST TO PARALLEL RAFTERS (see Section 2308.10.4.1 Table 2308.10.4.1)	2-16d COMMON (3 1/2"x0.162") MIN. TABLE 2308.10.4.1 4-3/4" 14 GAGE STAPLES 4-3/4" 14 GAGE STAPLES		FACE NAIL
19. RAFTER TO PLATE (see Section 2308.10.1 Table 2308.10.1)	3-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		TOENAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	2-8d COMMON (2 1/2"x0.131") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		FACE NAIL
21. 1"x2" SHEATHING TO EACH BEARING	3-8d COMMON (2 1/2"x0.131")		FACE NAIL
22. WIDER THAN 1"x6" SHEATHING TO EACH BRG.	3-8d COMMON (2 1/2"x0.131")		FACE NAIL
23. BUILD-UP CORNER STUDS	16d COMMON (3 1/2"x0.162") 3"x0.131" NAILS 3"x14 GAGE STAPLES AT 24" O.C.		24" O.C. 16" O.C.
24. BUILD-UP GIRDER AND BEAMS	20d COMMON (4"x0.162") AT 24" O.C. 3"x0.131" NAILS AT 24" O.C. 3"x14 GAGE STAPLES AT 24" O.C.		FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
25. 2" PLANKS	2-20d COMMON (4"x0.162") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		FACE NAIL AT ENDS AND AT EACH SPlice
26. COLLAR TIE TO RAFTER	16d COMMON (3 1/2"x0.162") 3-1/2" 14 GAGE STAPLES		AT EACH BEARING
27. JACK RAFTER TO HIP	3-1/2" 14 GAGE STAPLES 4-3/4" 14 GAGE STAPLES 4-3/4" 14 GAGE STAPLES 4-3/4" 14 GAGE STAPLES		FACE NAIL FACE NAIL FACE NAIL TOENAIL
28. ROOF RAFTER TO 2-BY RIDGE BEAM	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		FACE NAIL
29. JOIST TO BAND JOIST	2-16d COMMON (3 1/2"x0.162") 3-3"x0.131" NAILS 3-3/4" 14 GAGE STAPLES		TOENAIL OR FACE NAIL
30. LEADER STRIP	3-16d COMMON (3 1/2"x0.162") 4-3/4" 14 GAGE STAPLES 4-3/4" 14 GAGE STAPLES		FACE NAIL
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD SUBFLOOR,ROOF AND WALL SHEATHING (TO FRAMING)	12" AND LESS 6d ^{3,2} 2-3/8"x0.113" NAIL ⁴ 1-3/4" 16 GAGE 18/32" TO 3/4" 8d or 6d 2-3/8"x0.113" NAIL ⁵ 2" 16 GAGE		¹⁴ ¹⁶
SINGLE FLOOR (COMBINATION SUB FLOOR- UNDERLAMENT TO FRAMING)	3/4" AND LESS 6d ⁴ 7/8" TO 1" 10d OR 8d 1-1/8" TO 1-1/4" 10d OR 8d		⁵
32. PANEL SIDING (TO FRAMING)	12" OR LESS 6d ⁵ 5/8" 8d ⁶		
33. FIBERBOARD SHEATHING ⁷	12" NO. 11 GAGE ROOFING NAIL ⁸ 8" 8d COMMON NAIL (2"x0.113") 16" NO. 16 GAGE STAPLE ⁹ 25/32" NO. 11 GAGE ROOFING NAIL ⁸ 8d COMMON NAIL (2 1/2"x0.113") 16" NO. 16 GAGE STAPLE ⁹		
34. INTERIOR PANELING	1/2" 4d ¹⁰ 3/4" 6d ¹¹		



- PLAN NOTES
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 - FOR NATURE AND EXTENT OF DRAINS, SUMPS, EXTERIOR HARDSCAPE, ETC., REFER TO OTHER DRAWINGS.
 - FOR SIZE AND DIMENSIONS OF SLAB STEPS AND DEPRESSIONS, REFER TO ARCHITECTURAL DRAWINGS.
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- LEGEND
- SPREAD FOOTING PER SCHEDULE ON THIS SHEET.
 - STEP IN SURFACE OF SLAB-ONGRADE PER DETAIL 10/S4.0 REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH OF STEP.
 - STEPPED FOOTING PER DETAIL 4/S3.0
 - INDICATES FOOTING.
 - INDICATES POST SIZE. POST SIZE IS INDICATED AT THE TOP OF THE POST.

ARCHITECT:

LA

AHMON ARCHITECTS

3834 WILLAT AVENUE, CULVER CITY, CA 90232
(T) 424.299.4666 (F) 424.299.4698

CONSULTANT:

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DCA Structural Engineer
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OWNER:

WHEN LIFE HANDS YOU LEMONS, LP

6265 VARIEL AVENUE
WOODLAND HILLS, CA 91367

818.789.5550

PROJECT:

KENSINGTON CAMPUS

AVENUE I & WEST 32ND STREET
LANCASTER, CA 93536

BUILDINGS:
45260 32ND ST W
45244 32ND ST W

PHASE:
BULLETIN 2
11.16.2018

STAMP:

DAVID CHOI

REV # 2 DESCRIPTION Bulletin 2 DATE 11/16/2018

KEY PLAN

DCA PROJECT NO.	18-122
PLOT DATE	11.16.2018
SCALE	AS SHOWN
SHEET TITLE	

BLDG. A
FOUNDATION
PLAN

SHEET NO.

S2.0

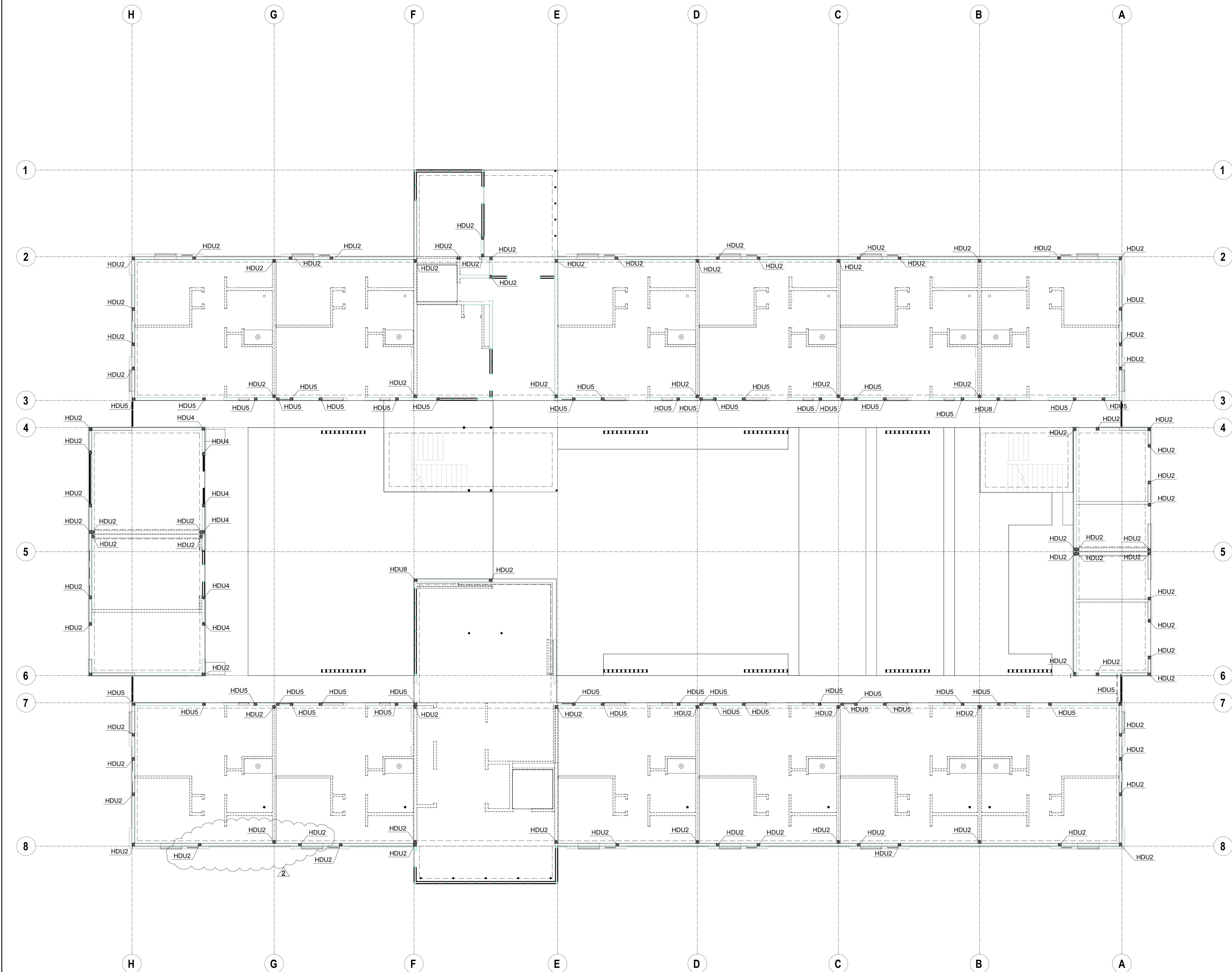
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BLDG. A FOUNDATION PLAN

SCALE: 1/8"=1'-0"

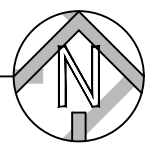
11.16.2018

BULLETIN 2



BLDG. A FOUNDATION PLAN

SCALE: 1/8"=1'-0"



PLAN NOTES

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LEGEND

HDU2 INDICATES HOLDOWN LOCATION AND ANCHOR SIZE PER DETAIL 15/S3.0. HOLDDOWN ANCHORS SHALL BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION

ARCHITECT:



CONSULTANT:

Structural Engineer
DCA Structural Engineer
1327 Loma Ave.
Long Beach, Ca. 90804
(562) 382-8040

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11.16.2018

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David Choi
DAVID CHOI

REV #	DESCRIPTION	DATE
2	Bulletin 2	11/16/2018

KEY PLAN

DCA PROJECT NO.

18-122

PLOT DATE

11.16.2018

SCALE

AS SHOWN

SHEET TITLE

SHEARWALL
HOLDOWNS

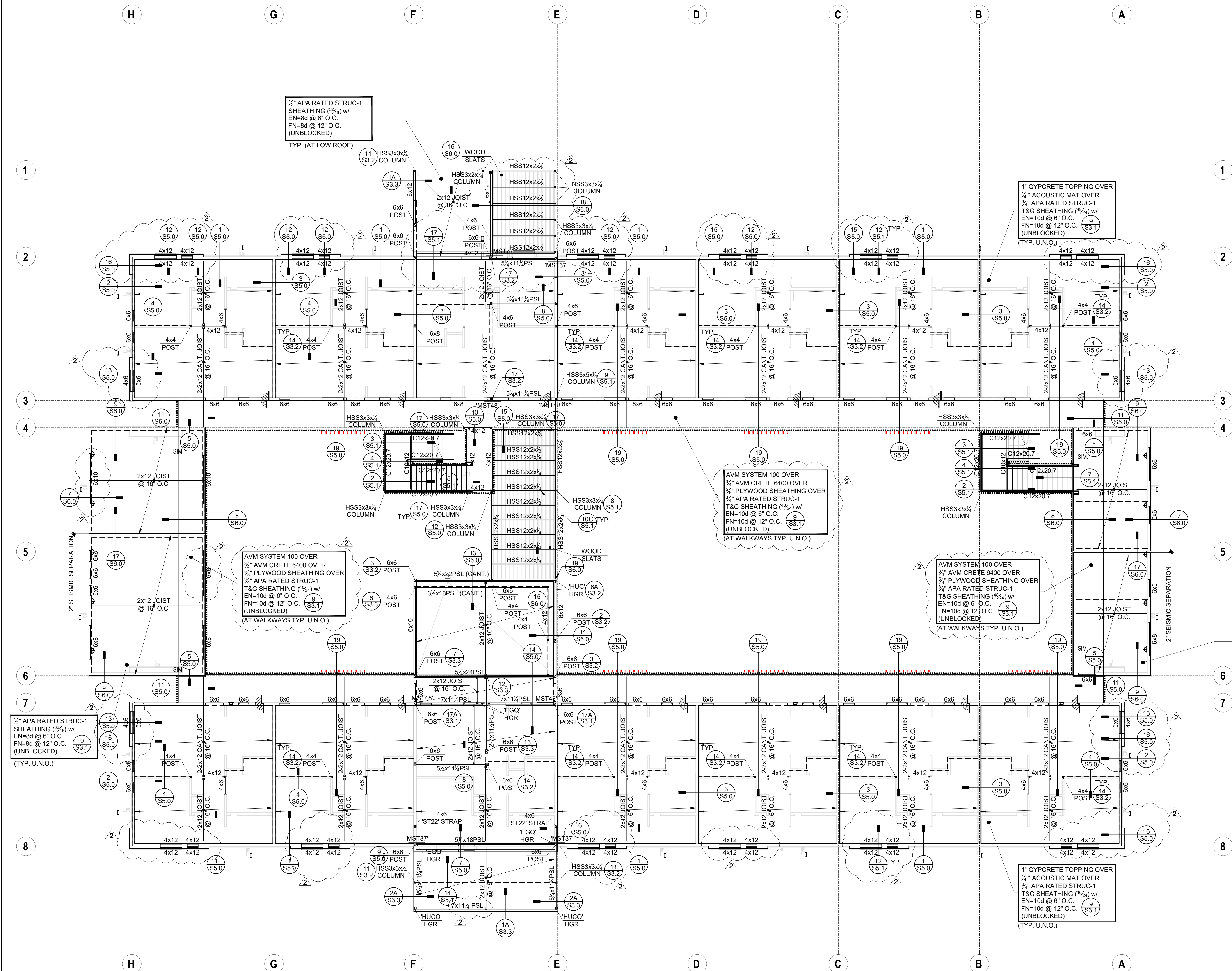
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S2.0A

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11.16.2018

BULLETIN 2



PLAN NOTES

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LEGEND

- INDICATES FLOOR STEP. REFER TO ARCHITECTURAL DRAWINGS FOR DEPTH OF STEP.
- REQUIRED TOP PLATE SPLICE. SEE SCHEDULE ON 10/S3.1 FOR ALL REQUIREMENTS. THE MARKED SPLICE SHALL APPLY FOR THE FULL LENGTH OF THE WALL WHERE INDICATED. USE TYPE N6 SPLICE MIN., U.N.O. ON PLAN.
- FRAMING MEMBER BEARING ON TOP OF SUPPORT. SEE TYP. DETAILS FOR CONNECTION.
- INDICATES MEMBER INSTALLED FLUSH (IN HANGER) AT ITS SUPPORT, SEE TYP. HANGER DETAILS 6/S3.2.
- INDICATES BEAM MEMBER INSTALLED DIRECTLY BELOW SHEATHING, U.N.O.
- INDICATES HEADER MEMBER. INSTALL MEMBER AT HEAD OF OPENING IN WALL BELOW. SEE DETAIL 14/S3.1.
- INDICATES POST SIZE. POST SIZE IS INDICATED AT THE TOP OF THE POST.

ARCHITECT:



CONSULTANT:

Structural Engineer
DCA Structural Engineer
1327 Loma Ave.
Long Beach, Ca. 90804
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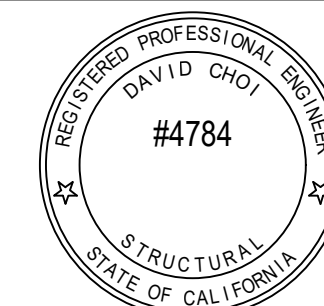
AVENUE I & WEST 32ND STREET
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BUILDINGS:
45260 32ND ST W
45244 32ND ST W

PHASE:

BULLETIN 2
11.16.2018

STAMP:



DAVID CHOI

REV #

2

DESCRIPTION
Bulletin 2

DATE
11/16/2018

KEY PLAN

DCA PROJECT NO.

18-122

PLOT DATE

11.16.2018

SCALE

AS SHOWN

SHEET TITLE

BLDG. A SECOND
FLOOR FRAMING
PLAN

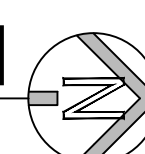
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S2.1

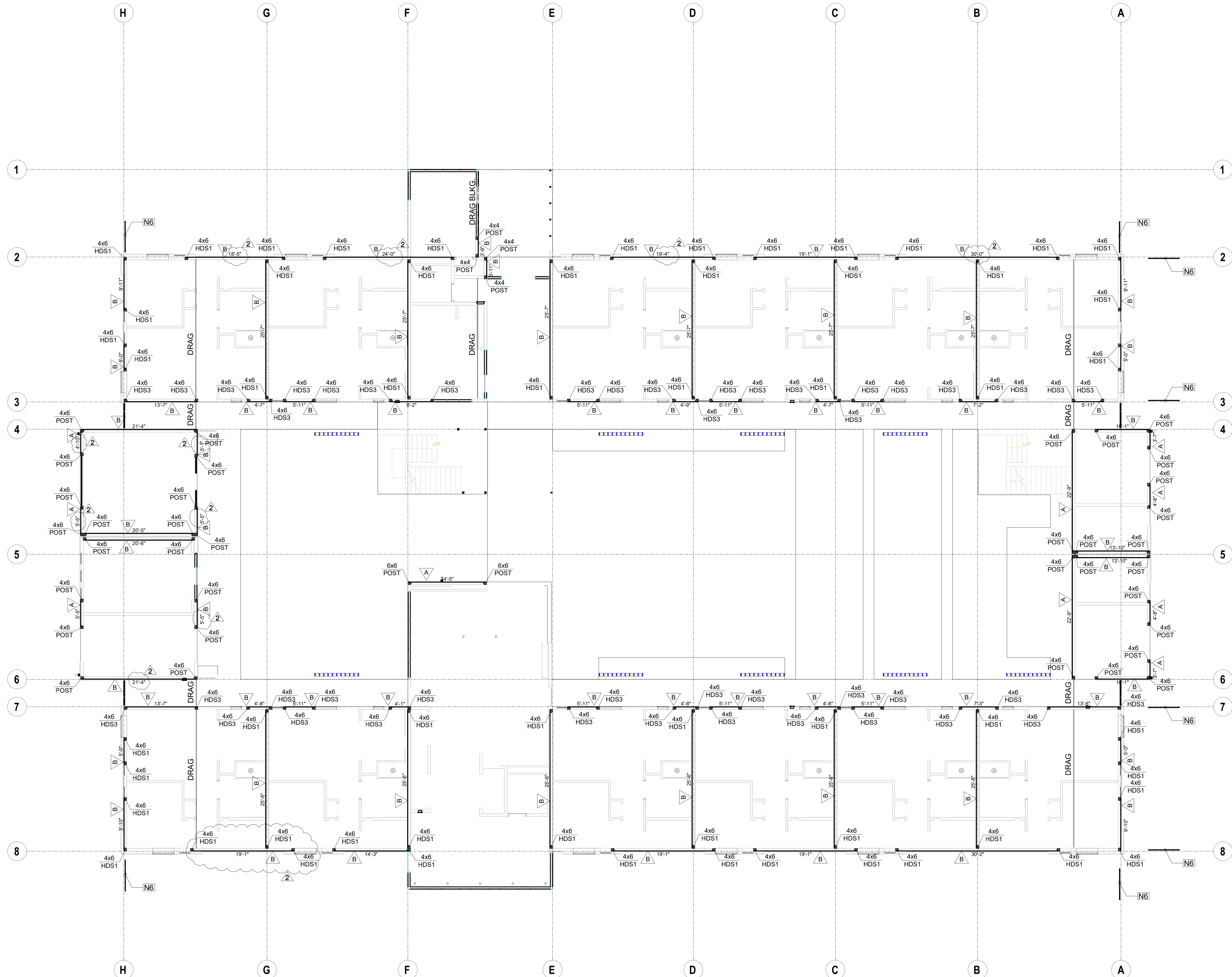
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BLDG. A SECOND FLOOR FRAMING PLAN

SCALE: 1/8"=1'-0"

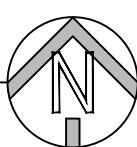


11.16.2018



BLDG. A SECOND FLOOR SHEARWALL PLAN

SCALE: 1/8"=1'-0"



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- FOR SIZE AND LOCATION OF FLOOR OPENINGS FOR STAIRS AND ELEVATORS, REFER TO ARCHITECTURAL DRAWINGS.
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LEGEND

- INDICATES POST LOCATION. POST SIZE IS INDICATED AT FLOOR ABOVE.
- INDICATES HOLDOWN LOCATION AND ANCHOR SIZE PER DETAIL 15/S3.0. HOLDOWN ANCHORS SHALL BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION
- REQUIRED TOP PLATE SPLICE. SEE SCHEDULE ON 10/S3.1 FOR ALL REQUIREMENTS. THE MARKED SPLICE SHALL APPLY FOR THE FULL LENGTH OF THE WALL WHERE INDICATED. USE TYPE N6 SPLICE MIN., U.O.N. ON PLAN.
- INDICATES POST SIZE. POST SIZE IS INDICATED AT THE TOP OF THE POST.
- INDICATES SHEARWALL PER SCHEDULE ON SHEET S2.1. SEE DETAILS 2/S3.1, 4/S3.1 & 7/S3.1 FOR TYPICAL SHEARWALL ASSEMBLY.
- INDICATES POST SIZE BELOW AND HOLDOWN FOUNDATION SIZE PER DETAIL 10/S3.2. HOLDOWN IS REQUIRED AT FOUNDATION AT EACH FLOOR TO FLOOR STRAP/POST.
- DRAG DRAG BEAM PER PLAN (4x, MIN.) w/ 2-ROWS OF E.N. & 'MST60' @ EA. END, U.O.N. (INSTALL AT TOP OF WALLS SHOWN)
- DRAG BLKG. 3x4 FLAT DRAG BLKG. w/ 2-ROWS OF E.N. AND FULL-LENGTH 'CS14' STRAP. SEE 20/S3.3. TO BE INSTALLED AT THE TOP OF THE INDICATED WALL.

SCHEDULES

HD STRAP SCHEDULE						
TAG	STRAP TYPE	END LENGTH L'	NAILS REQUIRED WITHIN END LENGTH L'	CAPACITY (KIPS)	L.A. CITY (KIPS)	EQUIVALENT AT FOUNDATION
HDS1	CS18	10"	10-10d	1.37	1.03	HDS2
HDS2	CS18	12"	12-10d	1.705	1.27	HDS2
HDS3	2-CS18	10"	20-10d	2.74	2.05	HDS2
HDS4	2-CS18	12"	22-10d	3.41	2.58	HDS4
HDS5	CMSTC16	20"	30-16d SINKERS	4.59	3.44	HDS5
HDS6	CMST14	30"	30-16d	6.49	4.86	HDS6
HDS7	CMST12	36"	40-16d	9.22	6.92	HDS7
HDS8	2-MST60		68-16d	13.46	10.10	HDS14

NOTES:

- SEE DETAIL 10/S3.2 FOR STRAP TO BEAM CONDITIONS.
- BASED ON LARR# 25713 & ICC# ESR-2105.
- HOLDOWN IS REQUIRED AT FOUNDATION AT EACH FLOOR TO FLOOR STRAP/POST.
- INSTALL STRAP OVER SHEATHING. SHEATHING EDGE NAILING REQUIRED IN ADDITION TO STRAP NAILING.

SHEARWALL SCHEDULE									
MARK	SHEATHING (1)	NAIL SIZE (2)	EDGE NAIL SPACING	FIELD NAIL SPACING	SILL TO TOP PLATE CONNECTION	SILL TO WOOD CORN.	BLKG TO CONC. CORN.	ALLOW. SHEAR (PLF)	SHEAR WALL TYPE(3)
A	15/32"	10d	6"	12"	SDS1/4x6" @ 16"	2x: 5/8"x10 A.B. @ 32" 3x: 5/8"x10 A.B. @ 48"	A'35' @ 16"	340	I
B	15/32"	10d	4"	12"	SDS1/4x6" @ 12"	3x: 5/8"x10 A.B. @ 32"	A'35' @ 10"	510	II
C	15/32"	10d	3" STGR(4)	12"	SDS1/4x6" @ 9"	3x: 5/8"x10 A.B. @ 24"	A'35' @ 8"	665	III
D	15/32"	10d	2" STGR(4)	12"	SDS1/4x6" @ 6"	3x: 5/8"x10 A.B. @ 16"	A'35' @ 6"	870	IV
E	15/32"	10d	4"	12"	SDS1/4x6" @ 6"	3x: 5/8"x10 A.B. @ 16"	A'35' @ 5"	1020	V
F	15/32"	10d	3" STGR(4)	12"	SDS1/4x6" @ 4"	3x: 5/8"x10 A.B. @ 12"	A'35' @ 4"	1330	VI
G	15/32"	10d	2" STGR(4)	12"	SDS1/4x6" @ 3"	3x: 5/8"x10 A.B. @ 8"	A'35' @ 6" & LTP4 @ 6"	1740	VII

SHEARWALL NOTES:

- 2B, 2C, & 2D INDICATE DOUBLE SIDED SHEARWALL: SHEATHING ON BOTH SIDES OF WALL. G.C. MAY USE EITHER STRUCT-1 OSB OR PLYWOOD.
- USE COMMON WIRE NAILS.
- SEE DETAILS 2/S3.1, 4/S3.1 & 7/S3.1 FOR SHEARWALL ASSEMBLIES BASED ON SHEARWALL TYPE.
- FOR STAGGERED EDGE NAILING REQUIREMENTS SEE DETAILS 2/S3.1, 4/S3.1 & 7/S3.1.

ARCHITECT:



3834 WILLAT AVENUE, CULVER CITY, CA 90232
(T) 424.299.4666 (F) 424.299.4698

CONSULTANT:

Structural Engineer
DCA Structural Engineer
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OWNER:

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6265 VARIEL AVENUE
WOODLAND HILLS, CA 91367

818.789.5550

PROJECT:

KENSINGTON CAMPUS

AVENUE I & WEST 32ND STREET
LANCASTER, CA 93536

BUILDINGS:
45260 32ND ST W
45244 32ND ST W

PHASE:

BULLETIN 2
11.16.2018

STAMP:



REV # 2

DESCRIPTION Bulletin 2

DATE 11/16/2018

KEY PLAN

DCA PROJECT NO.

18-122

PLOT DATE

11.16.2018

SCALE

AS SHOWN

SHEET TITLE

SECOND FLOOR SHEARWALLS PLAN

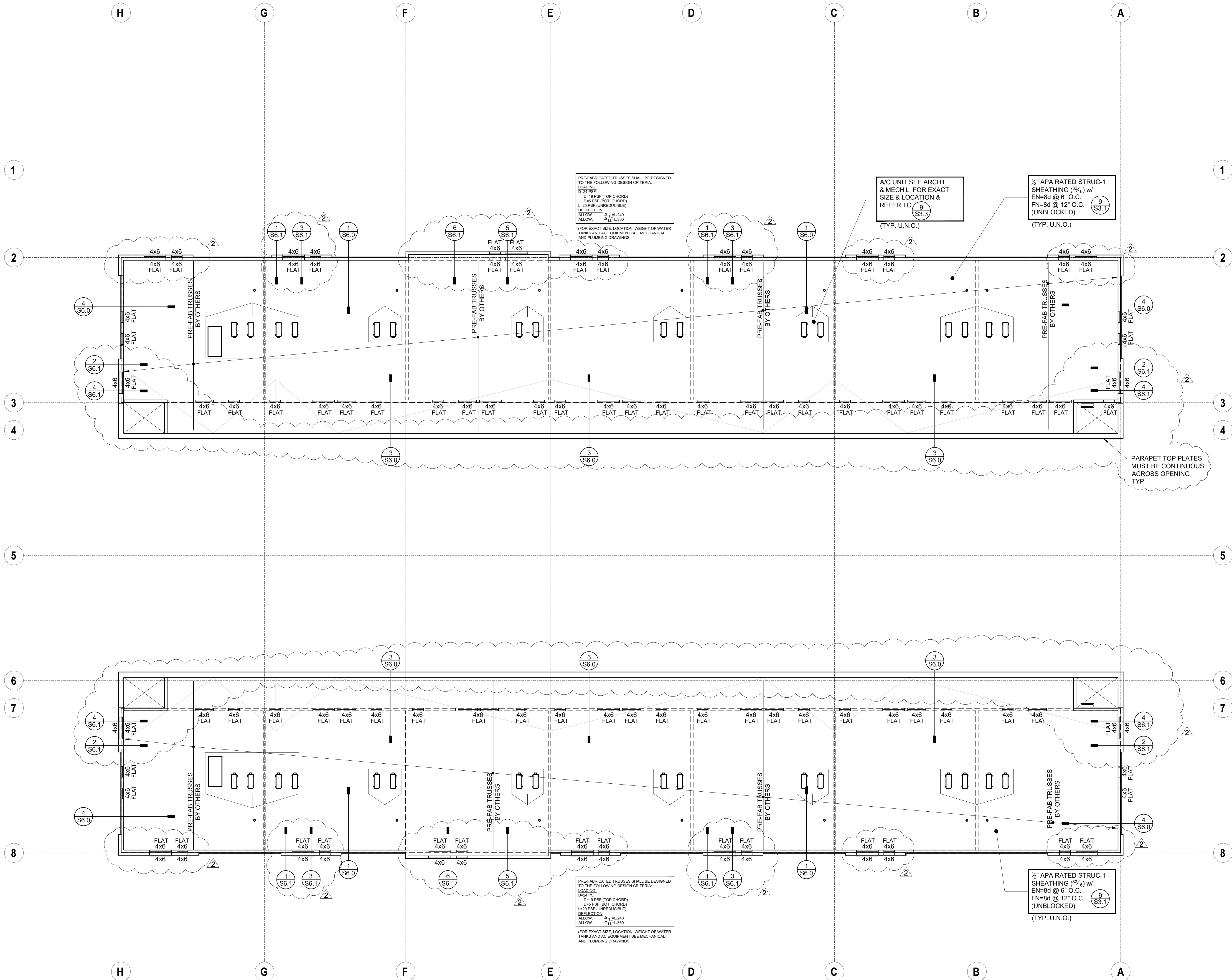
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S2.1A

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11.16.2018

BULLETIN 2



PLAN NOTES

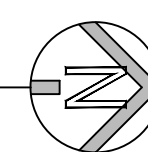
- SEE GENERAL NOTES AND TYPICAL DETAILS ON SHEETS S3.0-S3.3. THESE NOTES AND DETAILS SHALL BE USED WHERE APPLICABLE WHETHER SPECIFICALLY REFERENCED OR NOT.
- CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES WITH THE STRUCTURAL REQUIREMENTS INDICATED. REFER TO CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
- FOR NATURE AND EXTENT OF DRAINS, SUMPS, EXTERIOR HARDSCAPE, ETC., REFER TO OTHER DRAWINGS.
- FOR SIZE AND DIMENSIONS OF SLAB STEPS AND DEPRESSIONS, REFER TO ARCHITECTURAL DRAWINGS.
- FOR ITEMS EMBEDDED INTO CONCRETE SLABS AND WALLS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ANCHOR BOLTS, INCLUDING HOLDOWN ANCHORS, SHALL BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.
- STRUCTURAL WALLS ARE WALLS THAT RESIST GRAVITY, WIND, AND/OR SEISMIC LOADS. ALL EXTERIOR WOOD FRAME WALLS ARE STRUCTURAL WALLS. WALLS OR PORTIONS OF WALLS NOT INDICATED ON THE STRUCTURAL DRAWINGS ARE PARTITION WALLS. REFER TO ARCHITECTURAL PLANS FOR LOCATION AND EXTENT OF PARTITIONS.
- ALL WOOD FRAME STRUCTURAL WALLS ARE 2x4 @ 16" O.C. U.O.N. (USE 2x6 @ 16" O.C. AT PLUMBING WALLS.)
- FOR DIMENSIONS, EXTENT, AND NATURE OF ALL WALLS, REFER TO ARCH. DRAWINGS.
- HOLDOWNS SHALL BE RE-TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING.
- FOR TOP OF SHEATHING AND TOP OF PARAPET ELEVATIONS NOT NOTED REFER TO ARCHITECTURAL DRAWINGS.
- FOR SIZE AND LOCATION OF FLOOR OPENINGS FOR PIPES AND DUCTS, REFER TO MECHANICAL AND PLUMBING DRAWINGS.
- FOR SIZE AND LOCATION OF FLOOR OPENINGS FOR STAIRS AND ELEVATORS, REFER TO ARCHITECTURAL DRAWINGS.
- ALL WOOD EXPOSED TO WEATHER TO BE TREATED WOOD, REDWOOD OR OTHER SPECIES NATURALLY RESISTANT TO DECAY AND JOIST HANGERS, STRAPS, TIES, ETC. SHALL BE GALVANIZED (G185 COATING). FASTENERS SHALL BE STAINLESS STEEL OR APPROVED EQUAL.

LEGEND

- REQUIRED TOP PLATE SPLICE. SEE SCHEDULE ON 10/S3.1 FOR ALL REQUIREMENTS. THE MARKED SPLICE SHALL APPLY FOR THE FULL LENGTH OF THE WALL WHERE INDICATED. USE TYPE IN6 SPLICE MIN., U.N.O. ON PLAN.
- FRAMING MEMBER BEARING ON TOP OF SUPPORT. SEE TYP. DETAILS FOR CONNECTION.
- INDICATES MEMBER INSTALLED FLUSH (IN HANGER) AT ITS SUPPORT. SEE TYP. HANGER DETAILS 6/S3.2.
- INDICATES BEAM MEMBER INSTALLED DIRECTLY BELOW SHEATHING, U.N.O.
- INDICATES HEADER MEMBER. INSTALL MEMBER AT HEAD OF OPENING IN WALL BELOW. SEE DETAIL 14/S3.1.
- 4x4 POST
INDICATES POST SIZE. POST SIZE IS INDICATED AT THE TOP OF THE POST.

BLDG. A ROOF FRAMING PLAN

SCALE: 1/8"=1'-0"



ARCHITECT:



CONSULTANT:

Structural Engineer
DCA Structural Engineer
1327 Loma Ave.
Long Beach, Ca. 90804
(562) 382-8040

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PROJECT:

KENSINGTON CAMPUS

AVENUE I & WEST 32ND STREET
LANCASTER, CA 93536

BUILDINGS:
45260 32ND ST W
45244 32ND ST W

PHASE:

BULLETIN 2
11.16.2018

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REV # 2 DESCRIPTION Bulletin 2 DATE 11/16/2018

KEY PLAN

DCA PROJECT NO. 18-122

PLOT DATE 11.16.2018

SCALE AS SHOWN

SHEET TITLE

**BLDG. A ROOF
FRAMING PLAN**

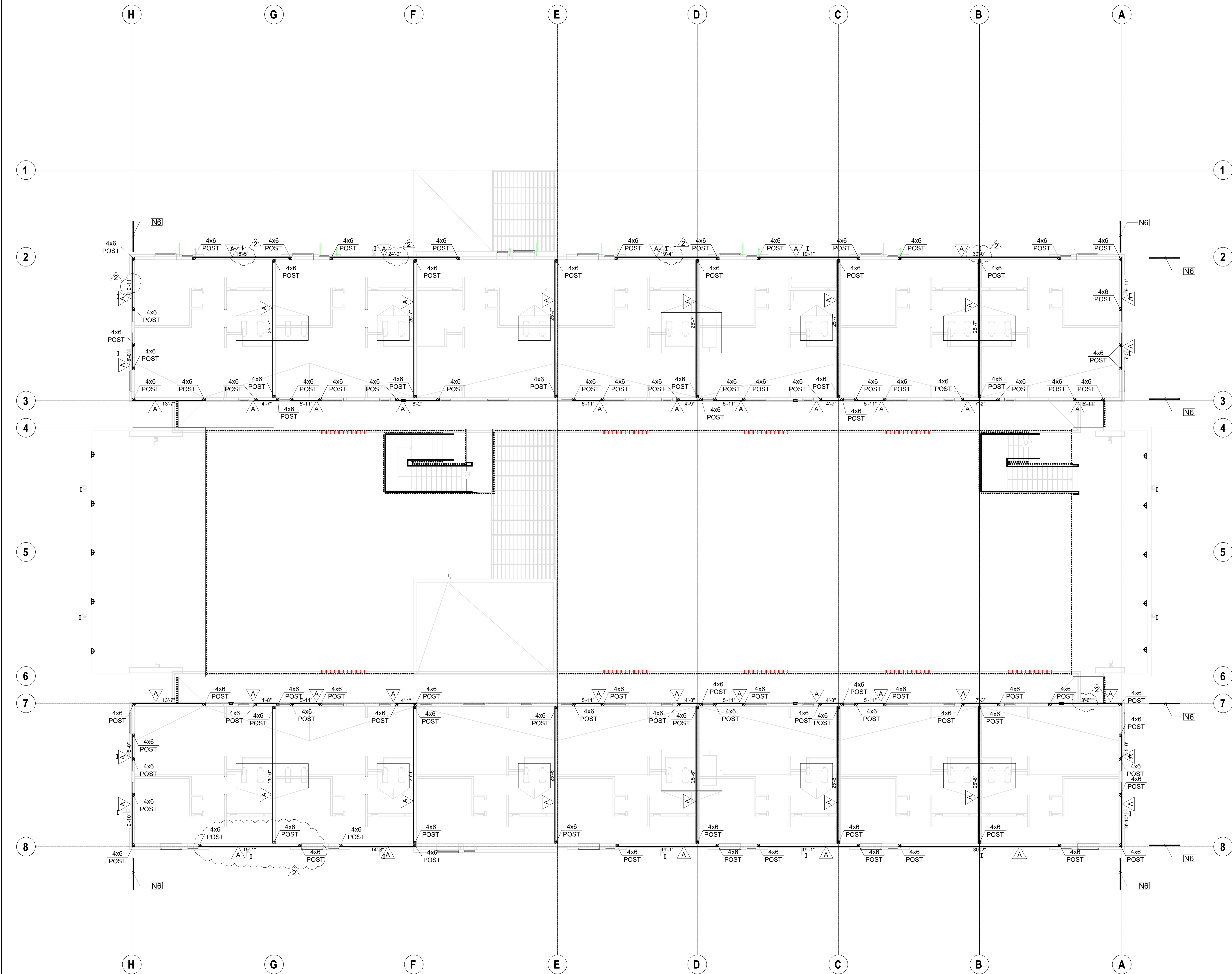
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S2.2

FILE REF. \\nasd\projects\2018\project\18-122\Kensington\10232018\11.16.2018\18-122.k2.d floor plans bldg a.dwg

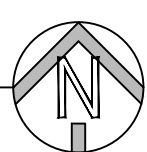
11.16.2018

BULLETIN 2



BLDG. A ROOF SHEARWALL PLAN

SCALE: 1/8"=1'-0"



PLAN NOTES

- SEE GENERAL NOTES AND TYPICAL DETAILS ON SHEETS S3.0-S3.3. THESE NOTES AND DETAILS SHALL BE USED WHERE APPLICABLE WHETHER SPECIFICALLY REFERENCED OR NOT.
- CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES WITH THE STRUCTURAL REQUIREMENTS INDICATED. REFER TO CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.
- FOR NATURE AND EXTENT OF DRAINS, SUMPS, EXTERIOR HARDSCAPE, ETC., REFER TO OTHER DRAWINGS.
- FOR SIZE AND DIMENSIONS OF SLAB STEPS AND DEPRESSIONS, REFER TO ARCHITECTURAL DRAWINGS.
- FOR ITEMS EMBEDDED INTO CONCRETE SLABS AND WALLS, REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- ANCHOR BOLTS, INCLUDING HOLDOWN ANCHORS, SHALL BE TIED IN PLACE PRIOR TO FOUNDATION INSPECTION.
- STRUCTURAL WALLS ARE WALLS THAT RESIST GRAVITY, WIND, AND/OR SEISMIC LOADS. ALL EXTERIOR WOOD FRAME WALLS ARE STRUCTURAL WALLS. WALLS OR PORTIONS OF WALLS NOT INDICATED ON THE STRUCTURAL DRAWINGS ARE PARTITION WALLS. REFER TO ARCHITECTURAL PLANS FOR LOCATION AND EXTENT OF PARTITIONS.
- ALL WOOD FRAME STRUCTURAL WALLS ARE 2x4 @ 16" O.C. U.O.N. (USE 2x6 @ 16" O.C. AT PLUMBING WALLS.)
- FOR DIMENSIONS, EXTENT, AND NATURE OF ALL WALLS, REFER TO ARCH. DRAWINGS.
- HOLDOWNS SHALL BE RE-TIGHTENED JUST PRIOR TO COVERING THE WALL FRAMING.
- FOR TOP OF SHEATHING AND TOP OF PARAPET ELEVATIONS NOT NOTED REFER TO ARCHITECTURAL DRAWINGS.
- FOR SIZE AND LOCATION OF FLOOR OPENINGS FOR PIPES AND DUCTS, REFER TO MECHANICAL AND PLUMBING DRAWINGS.
- FOR SIZE AND LOCATION OF FLOOR OPENINGS FOR STAIRS AND ELEVATORS, REFER TO ARCHITECTURAL DRAWINGS.
- ALL WOOD EXPOSED TO WEATHER TO BE TREATED WOOD, REDWOOD OR OTHER SPECIES NATURALLY RESISTANT TO DECAY AND JOIST HANGERS, STRAPS, TIES, ETC. SHALL BE GALVANIZED (G185 COATING). FASTENERS SHALL BE STAINLESS STEEL OR APPROVED EQUAL.

LEGEND

- REQUIRED TOP PLATE SPLICE. SEE SCHEDULE ON 10/S3.1 FOR ALL REQUIREMENTS. THE MARKED SPLICE SHALL APPLY FOR THE FULL LENGTH OF THE WALL WHERE INDICATED. USE TYPE N6 SPLICE MIN., U.N.O. ON PLAN.
- INDICATES POST SIZE. POST SIZE IS INDICATED AT THE TOP OF THE POST.
- INDICATES SHEARWALL PER SCHEDULE ON THIS SHEET SEE DETAILS 2/S3.1, 4/S3.1 & 7/S3.1 FOR TYPICAL SHEARWALL ASSEMBLY.
- DRAG BEAM PER PLAN (3/4" x JOIST DEPTH LSL, MIN.) w/ 2-ROWS OF E.N. & 'MST60' @ EA. END, U.O.N. (INSTALL AT TOP OF WALLS SHOWN)
- DRAG BLKG. 3x4 FLAT DRAG BLKG. w/ 2-ROWS OF E.N. AND FULL-LENGTH 'CS14' STRAP. SEE 20/S3.3. TO BE INSTALLED AT THE TOP OF THE INDICATED WALL.

SCHEDULES

SHEARWALL SCHEDULE									
MARK	SHEATHING (1")	NAIL SIZE (2)	FIELD NAIL SPACING	FIELD NAIL SPACING	SILL TO WOOD CORN.	SILL TO CONC. CORN.	BLKG. TO TOP PLATE CONNECTION	ALLOW SHEAR (PLF)	SHEAR WALL TYPE(S)
	15/32"	10d	6"	12"	SDS1/4x6" @ 16"	2x 5/8" @ A.B. @ 32" 3x 5/8" @ A.B. @ 48"	'A35' @ 16"	340	I
	15/32"	10d	4"	12"	SDS1/4x6" @ 12"	3x 5/8" @ A.B. @ 32" 3x 5/8" @ A.B. @ 48"	'A35' @ 10"	510	II
	15/32"	10d	3" STGR(4)	12"	SDS1/4x6" @ 9"	3x 5/8" @ A.B. @ 24" 3x 5/8" @ A.B. @ 32"	'A35' @ 8"	665	II
	15/32"	10d	2" STGR(4)	12"	SDS1/4x6" @ 6"	3x 5/8" @ A.B. @ 16" 3x 5/8" @ A.B. @ 24"	'A35' @ 6"	870	II
	15/32"	10d	4"	12"	SDS1/4x6" @ 6"	3x 5/8" @ A.B. @ 16" 3x 5/8" @ A.B. @ 24"	'A35' @ 5"	1020	III
	15/32"	10d	3" STGR(4)	12"	SDS1/4x6" @ 4"	3x 5/8" @ A.B. @ 12" 3x 5/8" @ A.B. @ 16"	'A35' @ 4"	1330	IV
	15/32"	10d	2" STGR(4)	12"	SDS1/4x6" @ 3"	3x 5/8" @ A.B. @ 8" 3x 5/8" @ A.B. @ 12"	'A35' @ 3" & 1/4" @ 6"	1740	IV

SHEARWALL NOTES:

- 2B, 2C, & 2D INDICATE DOUBLE SIDED SHEARWALL. SHEATHING ON BOTH SIDES OF WALL. G.C. MAY USE EITHER STRUCT-1 OSB OR PLYWOOD.
- USE COMMON WIRE NAILS.
- SEE DETAILS 2/S3.1, 4/S3.1 & 7/S3.1 FOR SHEARWALL ASSEMBLIES BASED ON SHEARWALL TYPE.
- FOR STAGGERED EDGE NAILING REQUIREMENTS SEE DETAILS 2/S3.1, 4/S3.1 & 7/S3.1.

ARCHITECT:



CONSULTANT:

Structural Engineer
DCA Structural Engineer
1327 Loma Ave.
Long Beach, Ca. 90804
(562) 382-8040

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6265 VARIEL AVENUE
WOODLAND HILLS, CA 91367

818.789.5550

PROJECT:

KENSINGTON CAMPUS

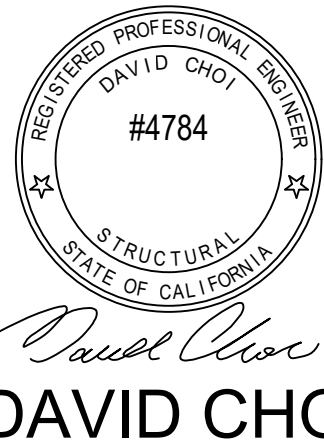
AVENUE I & WEST 32ND STREET
LANCASTER, CA 93536

BUILDINGS:
45260 32ND ST W
45244 32ND ST W

PHASE:

BULLETIN 2
11.16.2018

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REV #

2

DESCRIPTION

Bulletin 2

DATE

11/16/2018

KEY PLAN

DCA PROJECT NO.

18-122

PLOT DATE

11.16.2018

SCALE

AS SHOWN

SHEET TITLE

ROOF SHEARWALLS
PLAN

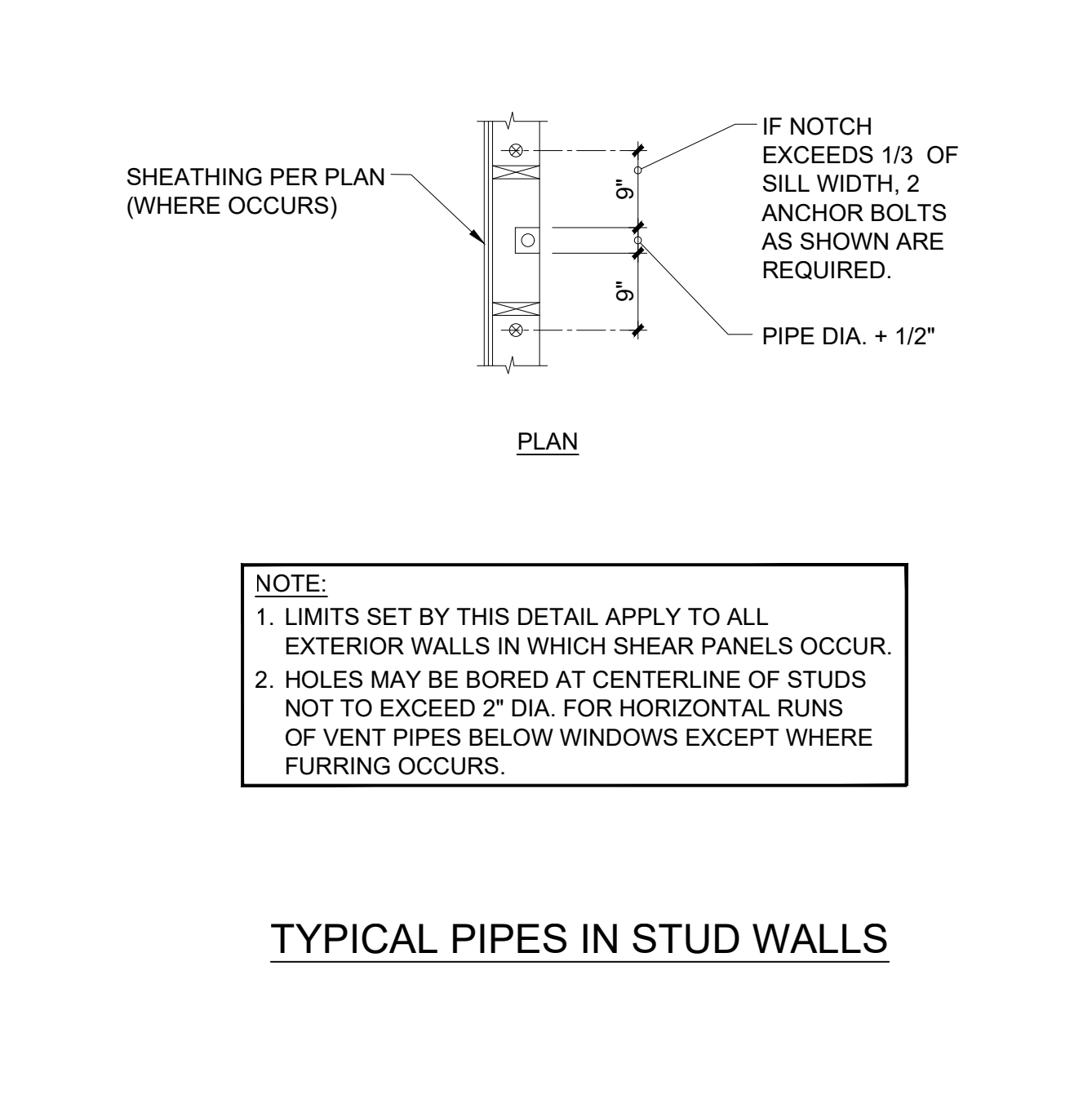
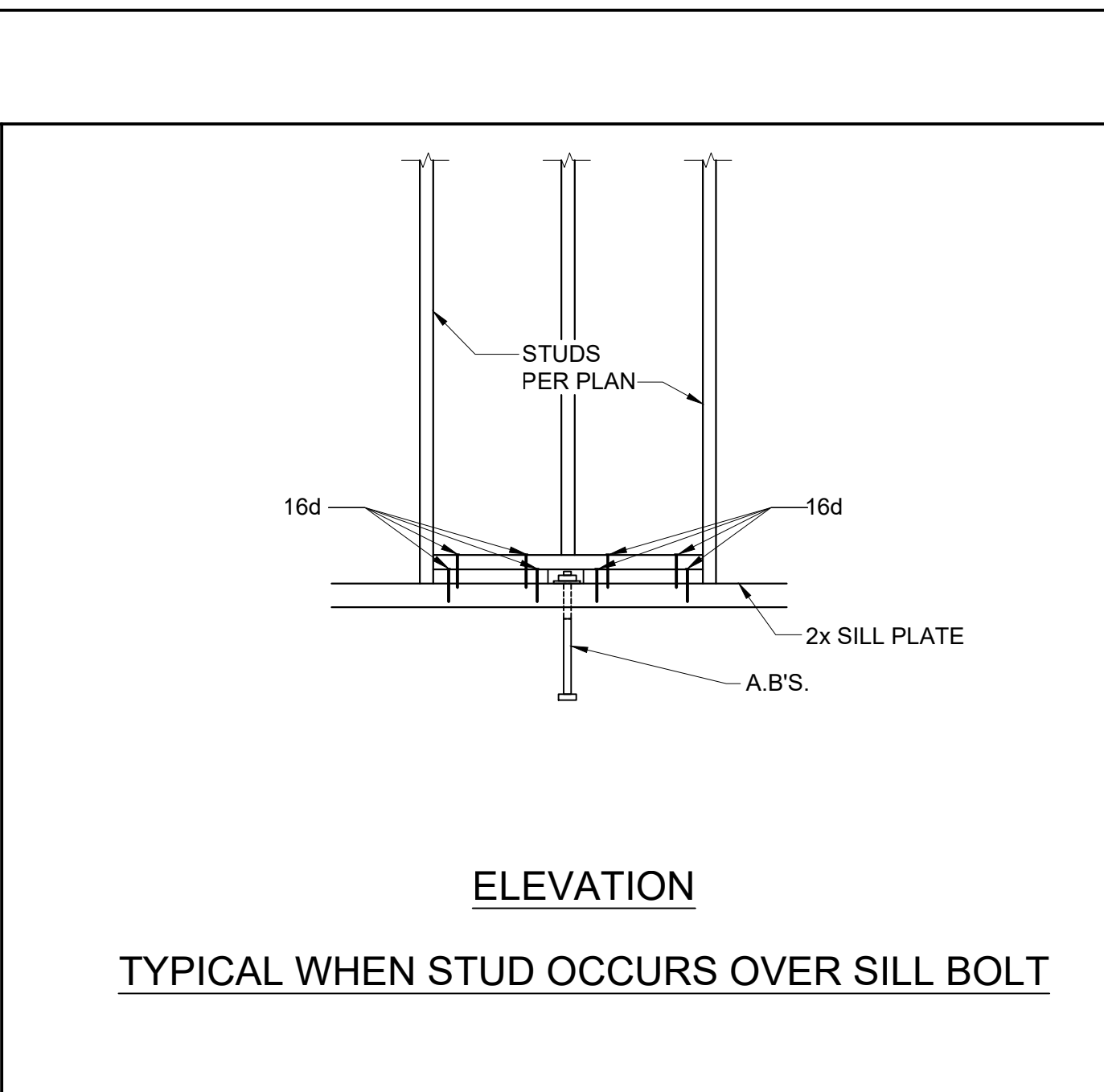
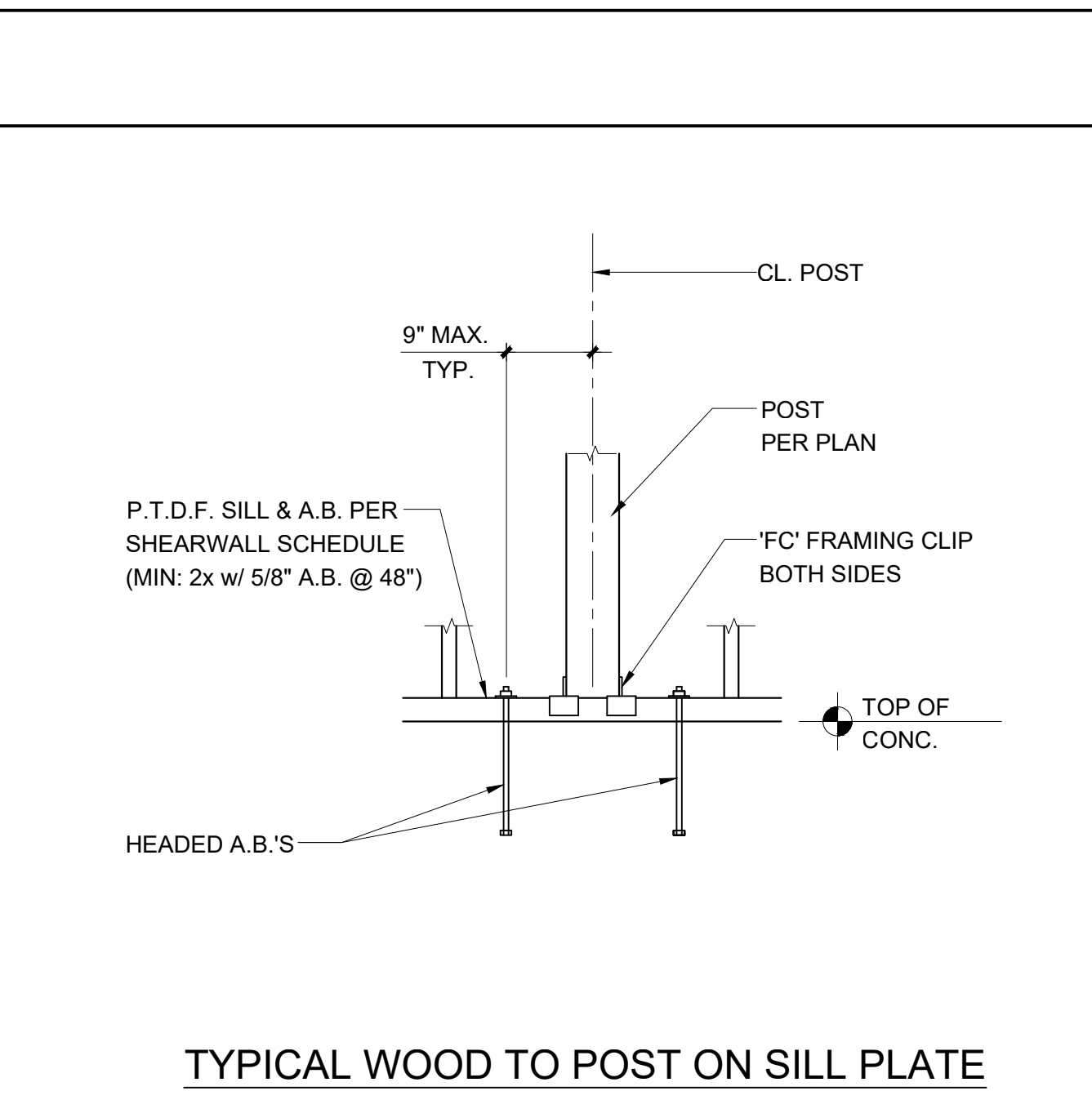
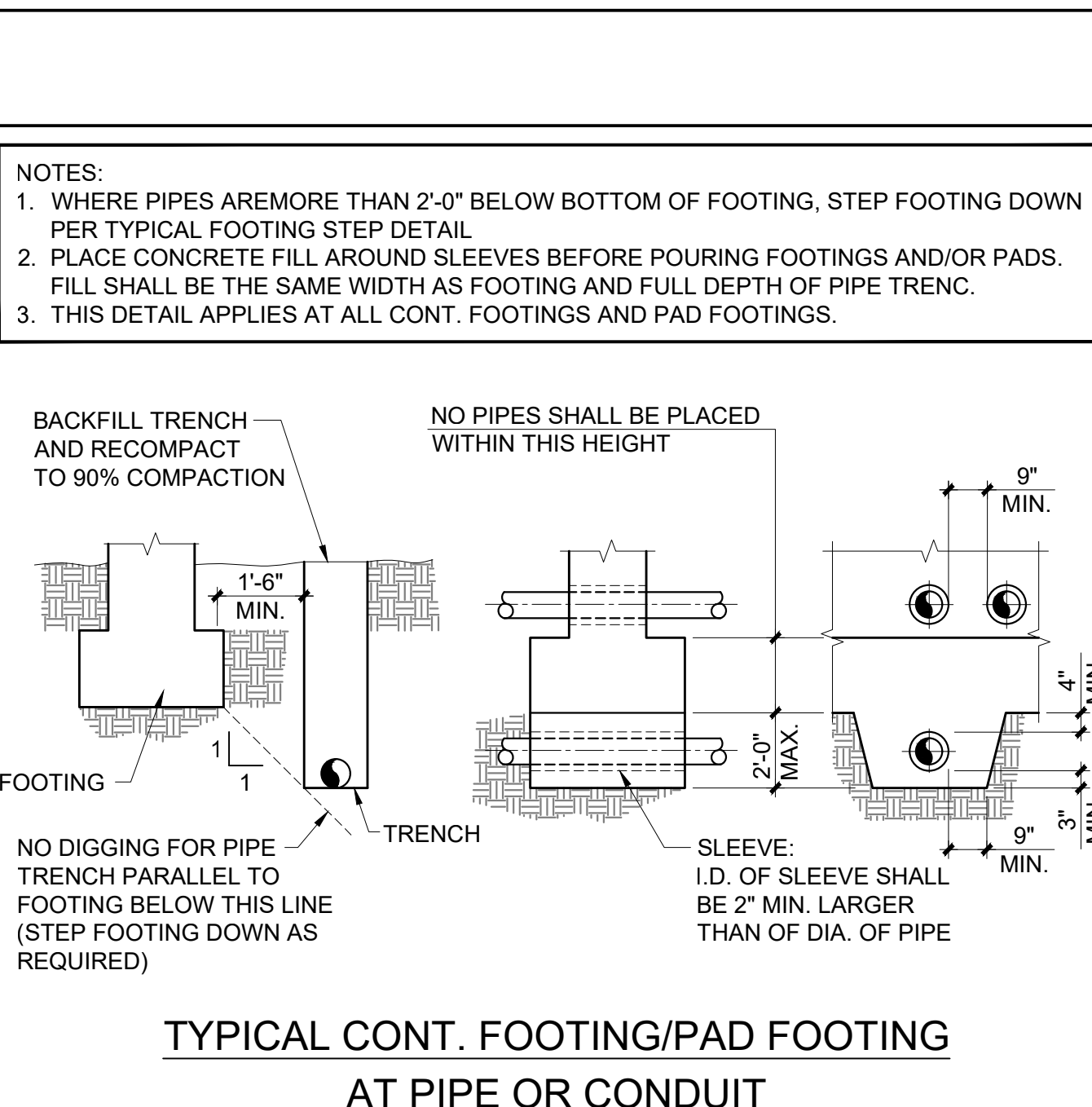
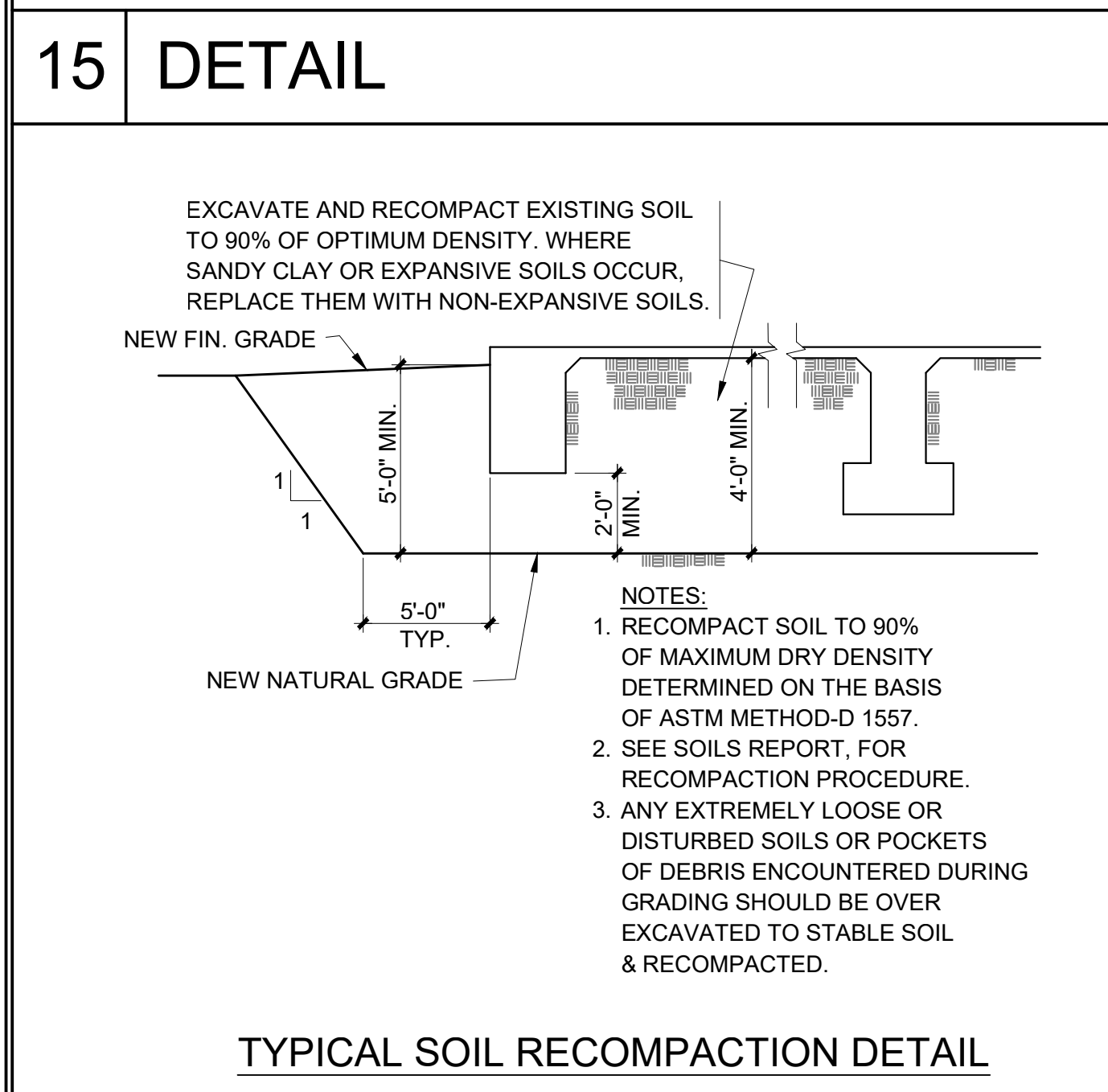
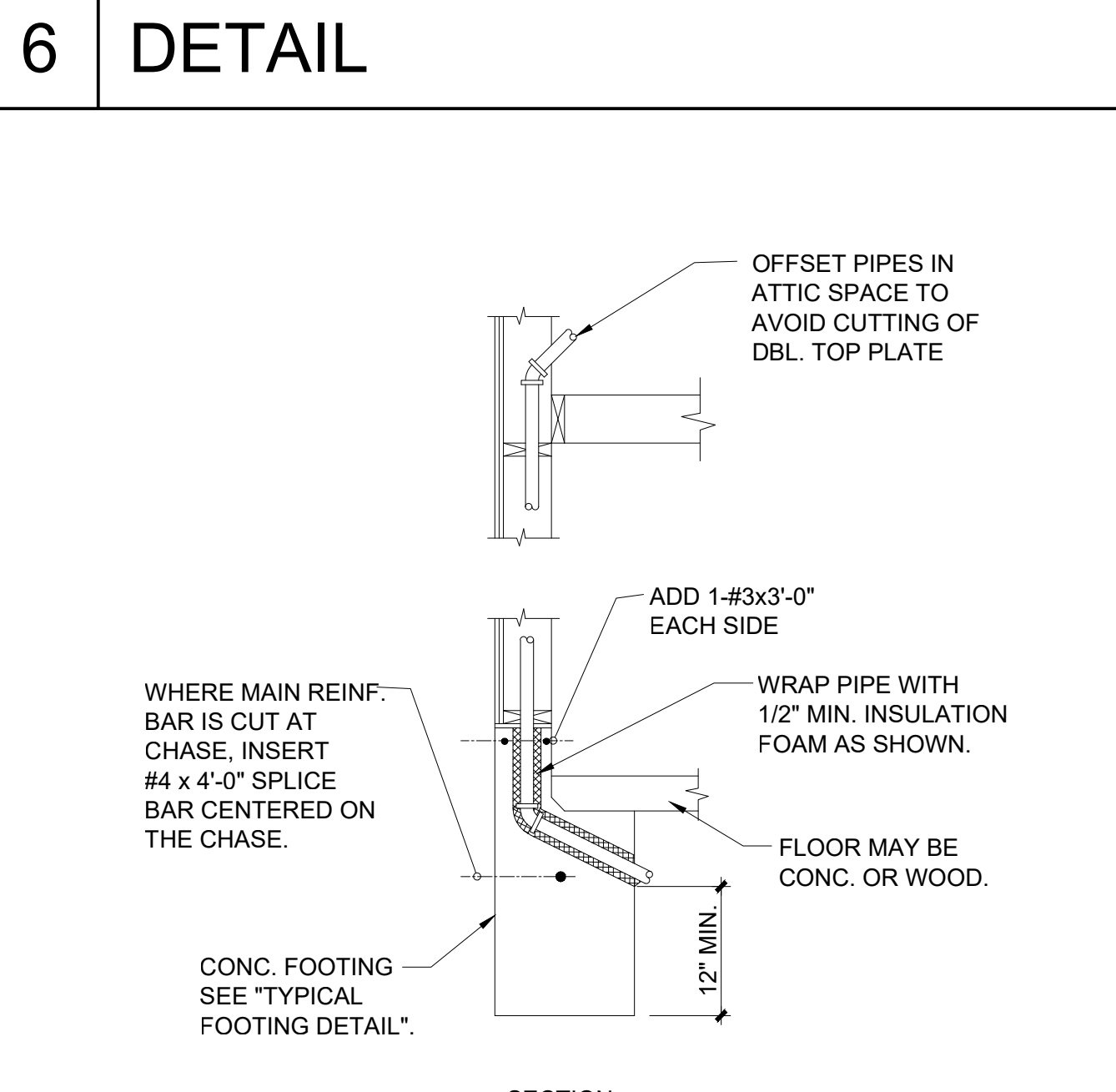
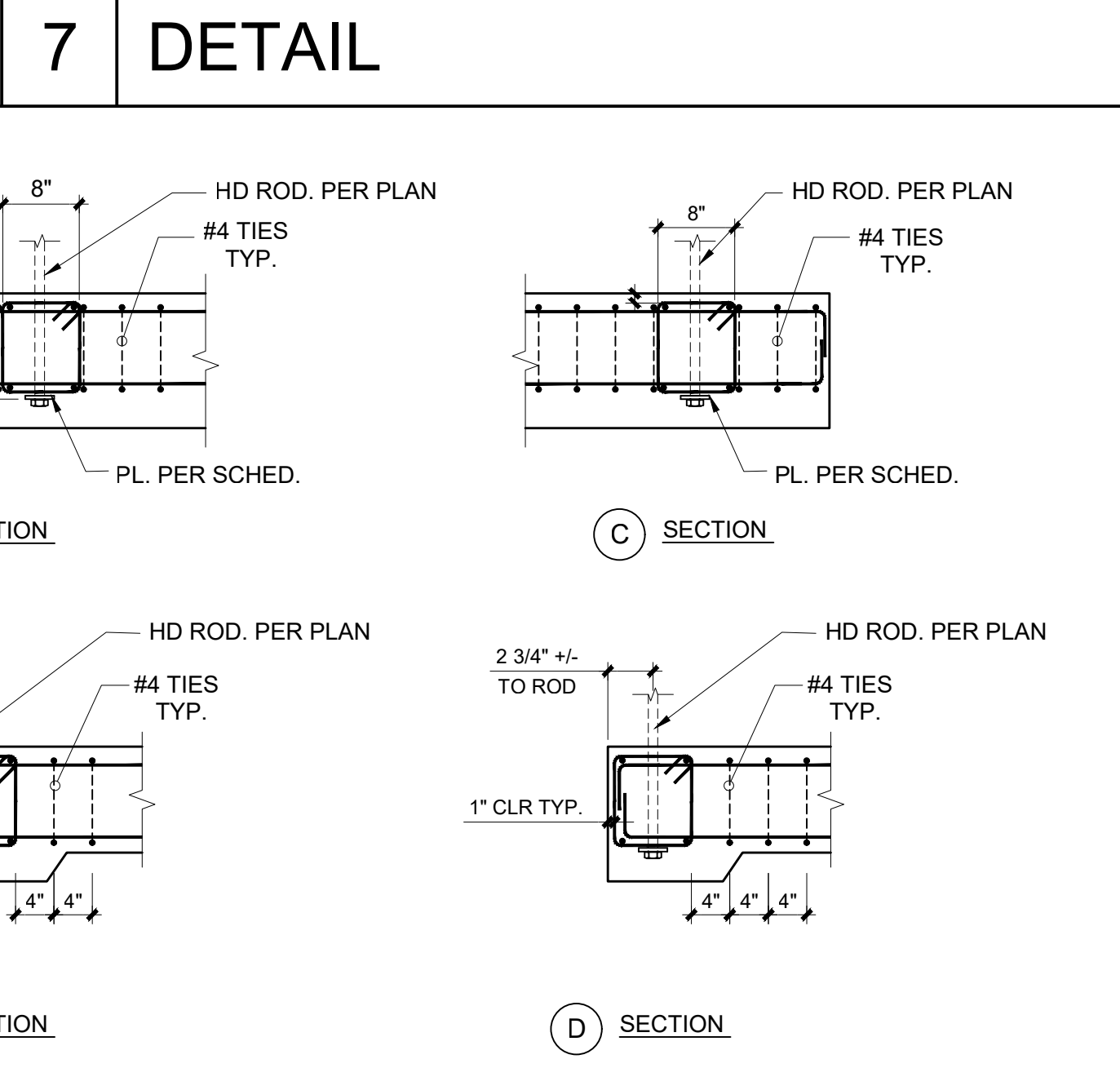
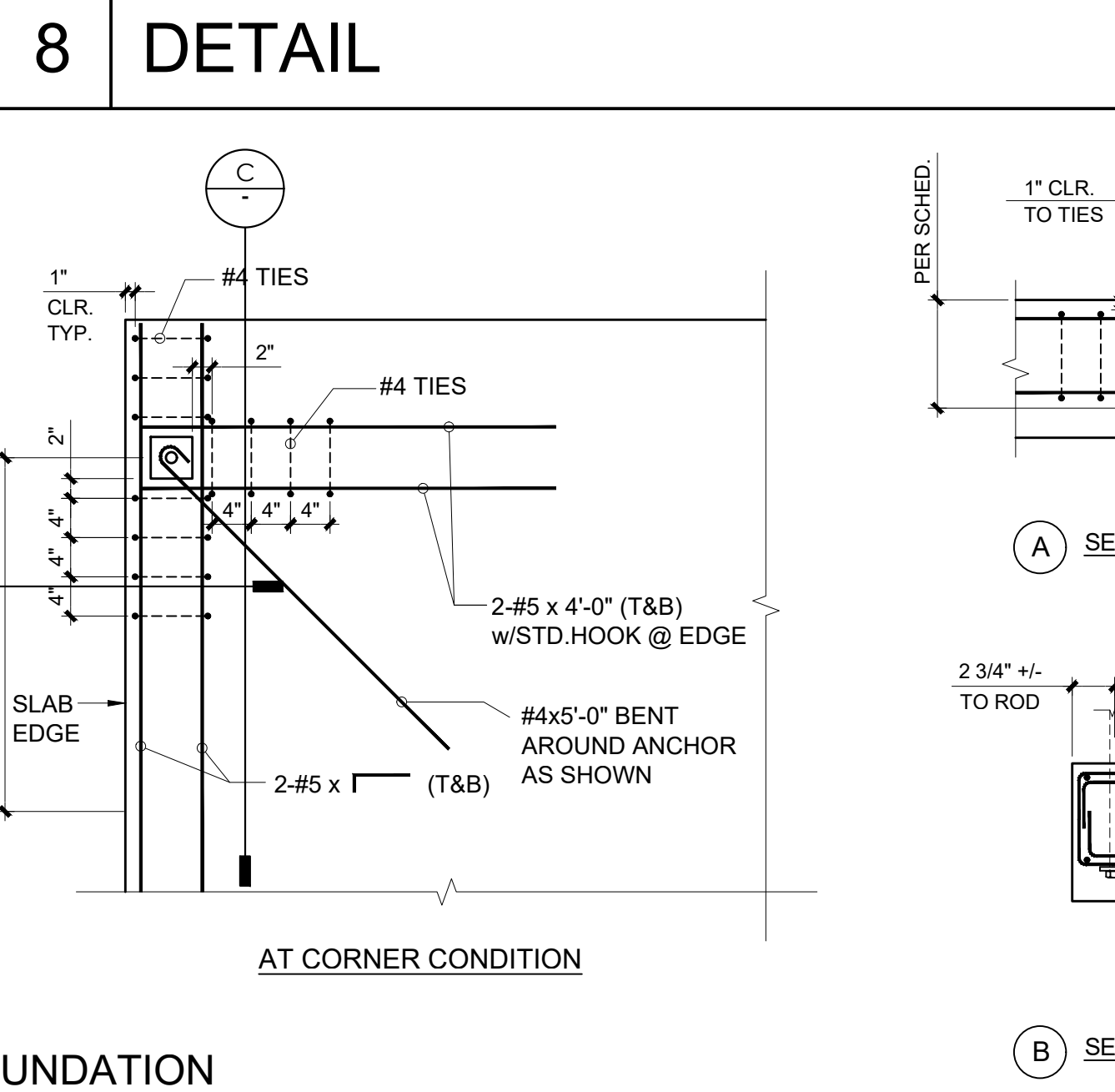
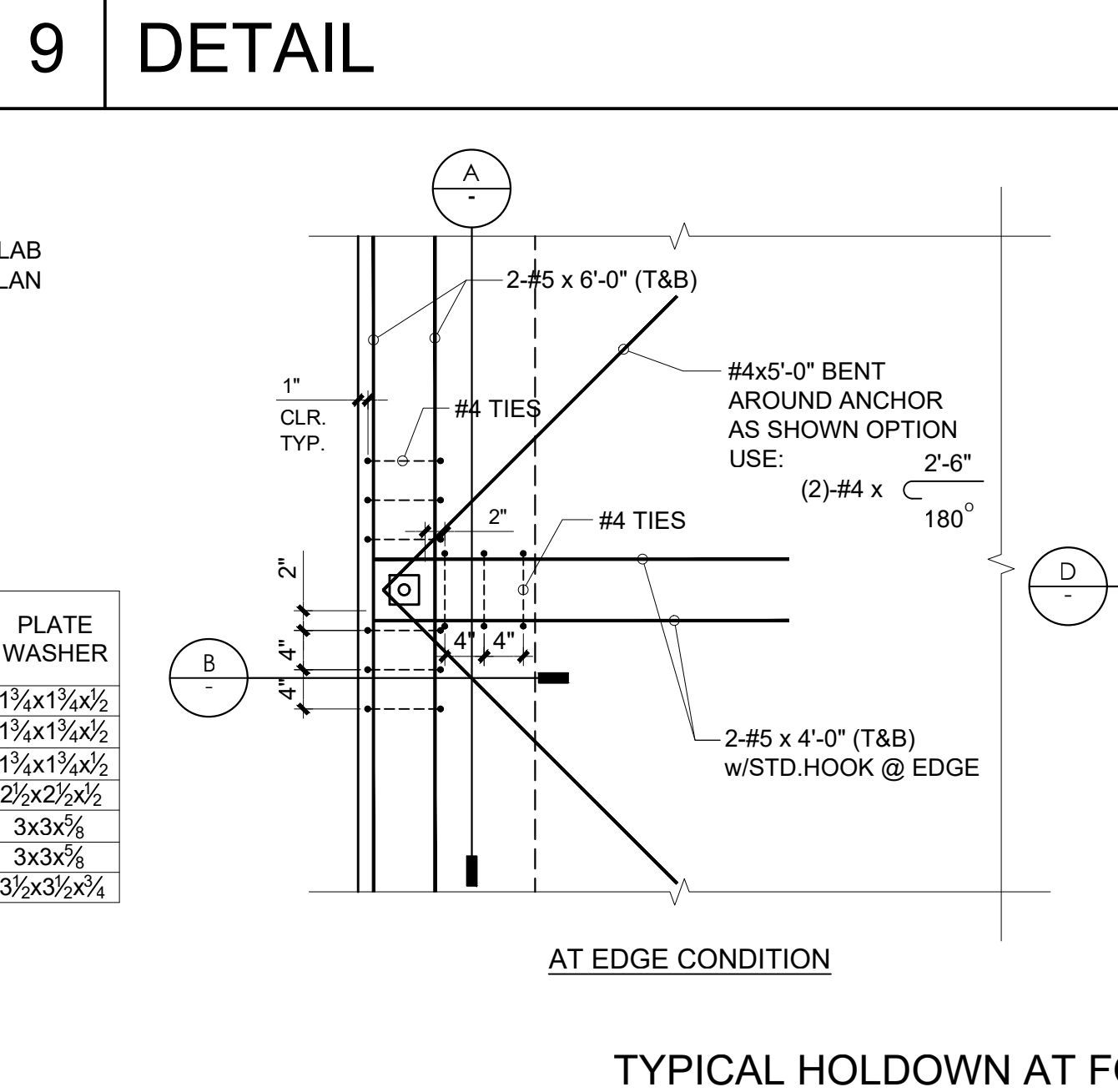
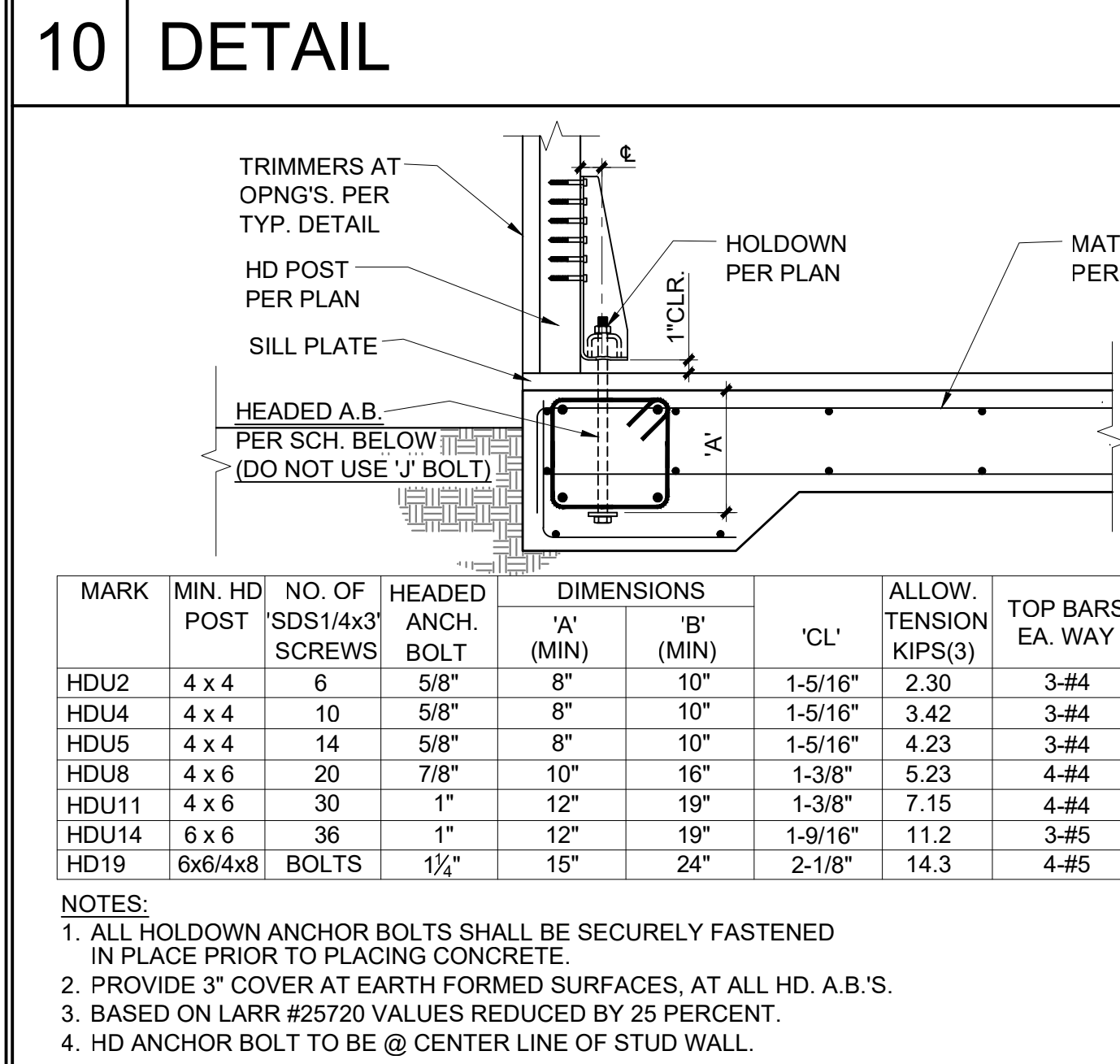
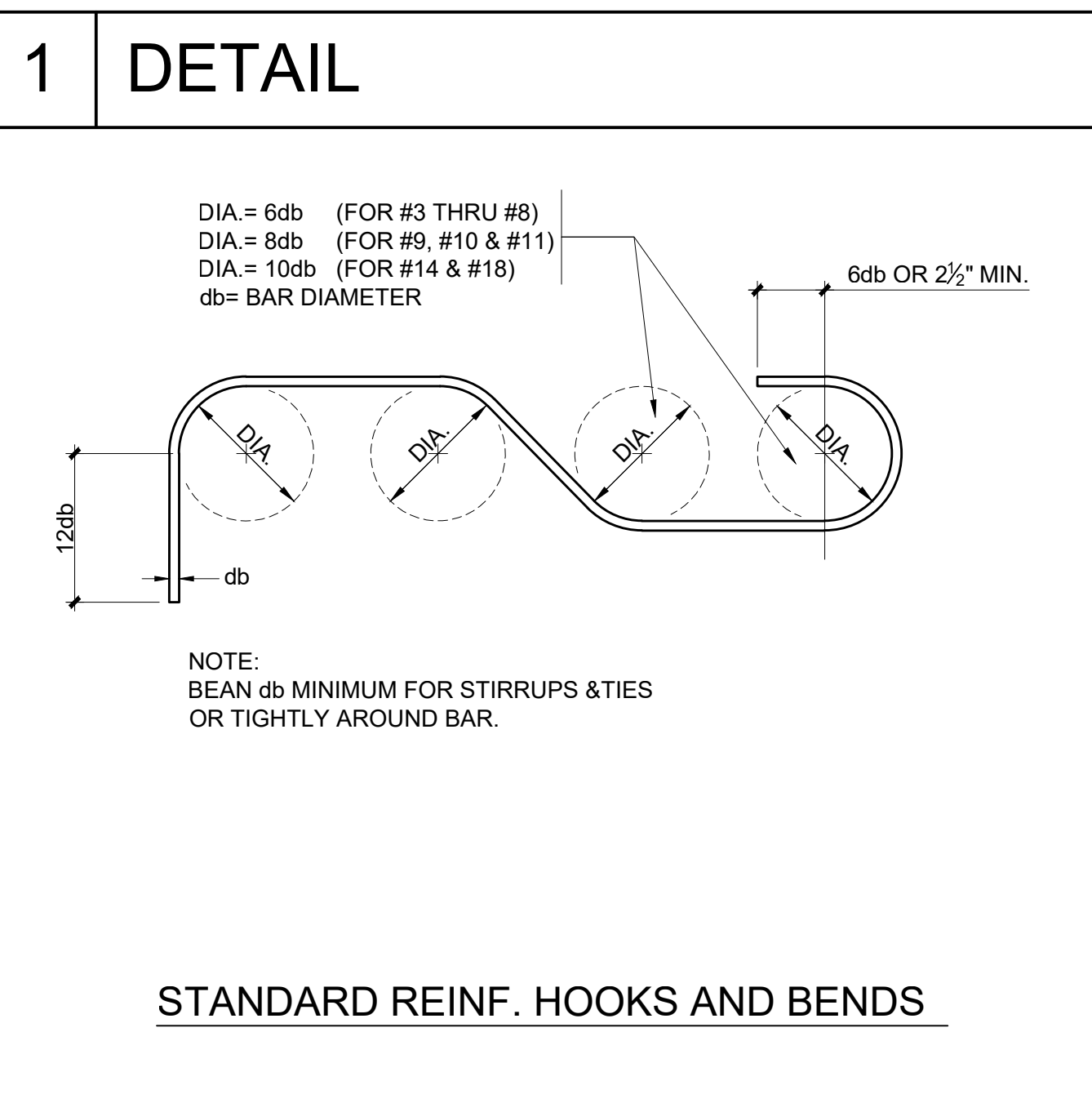
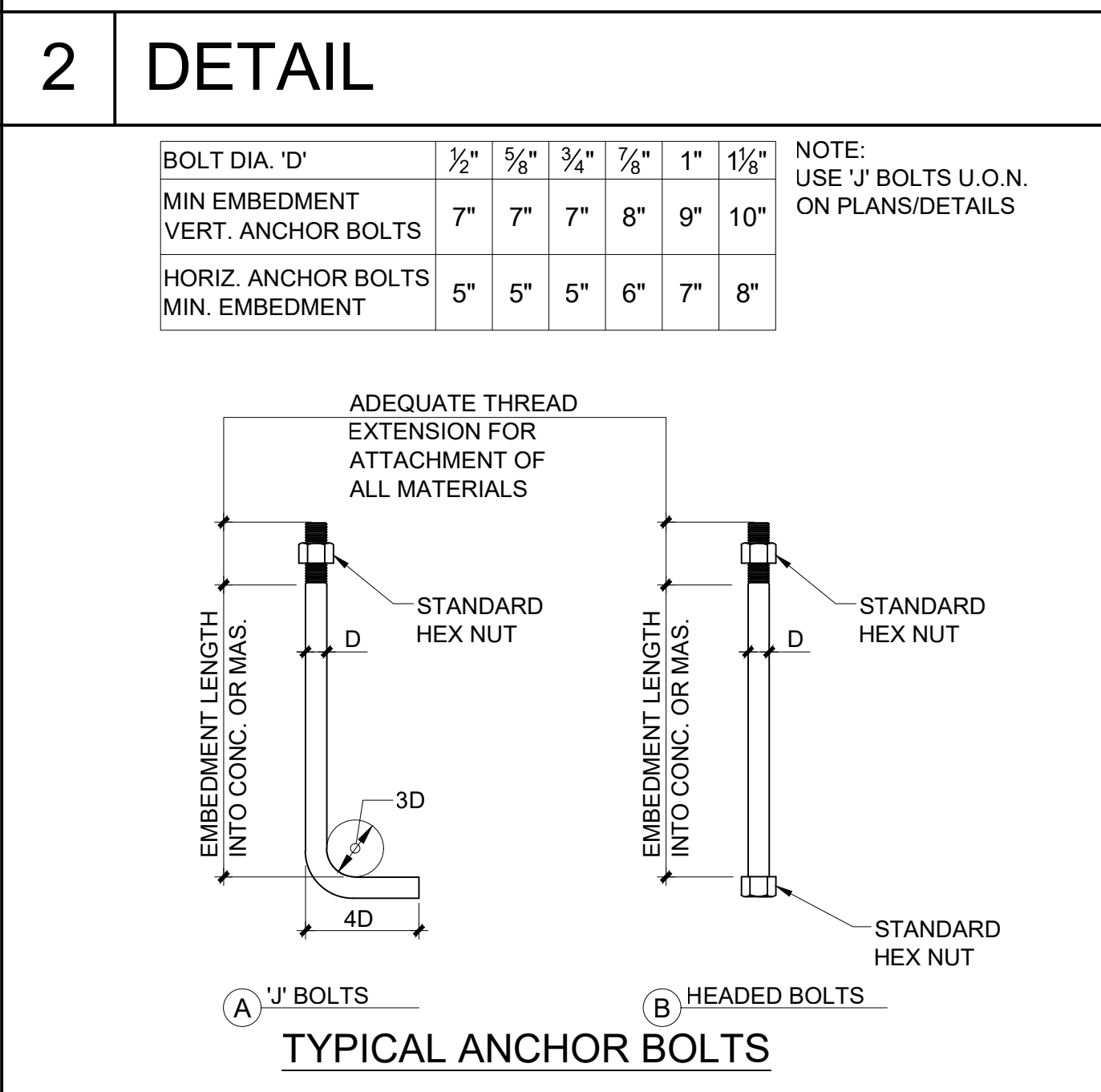
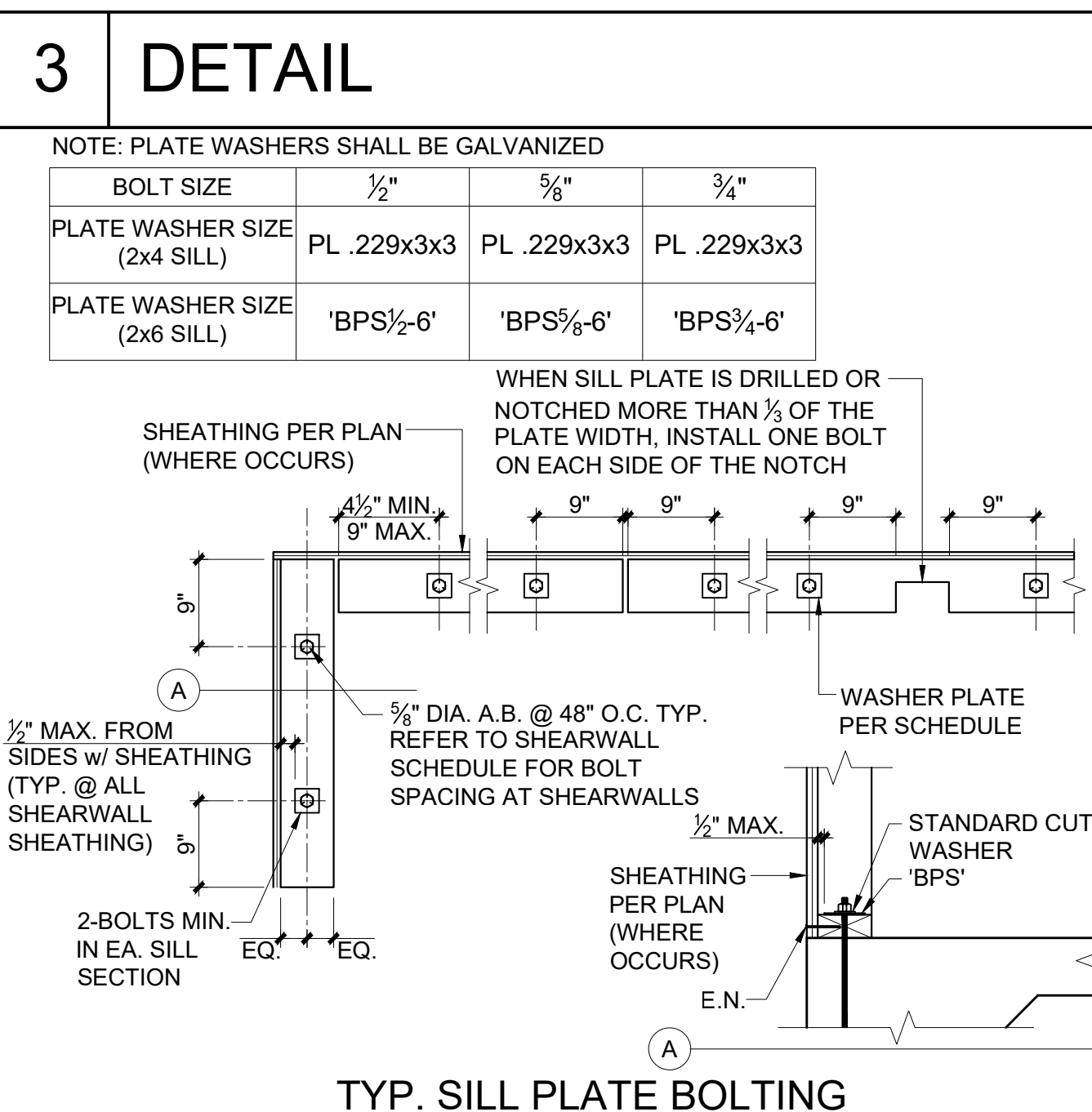
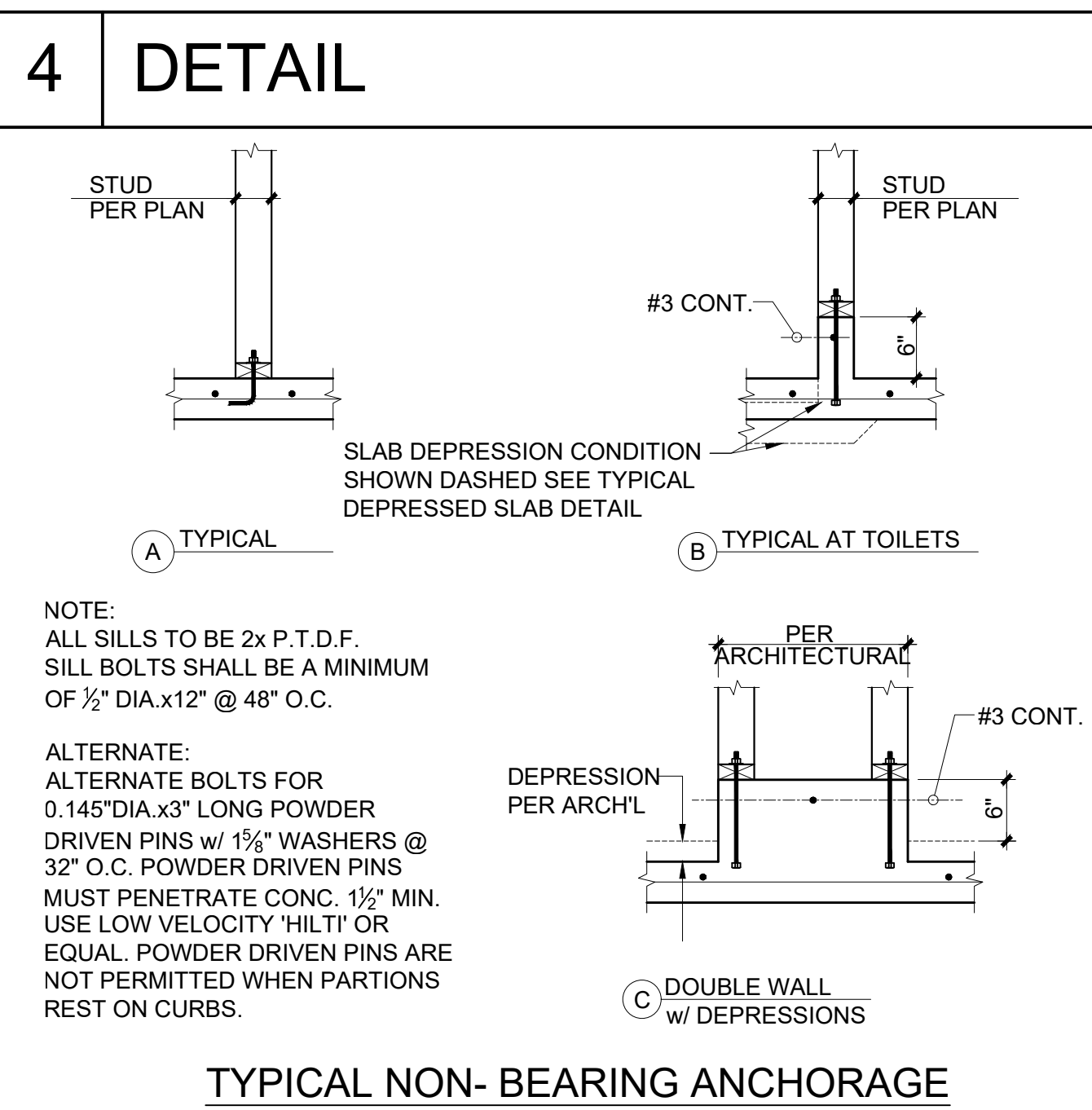
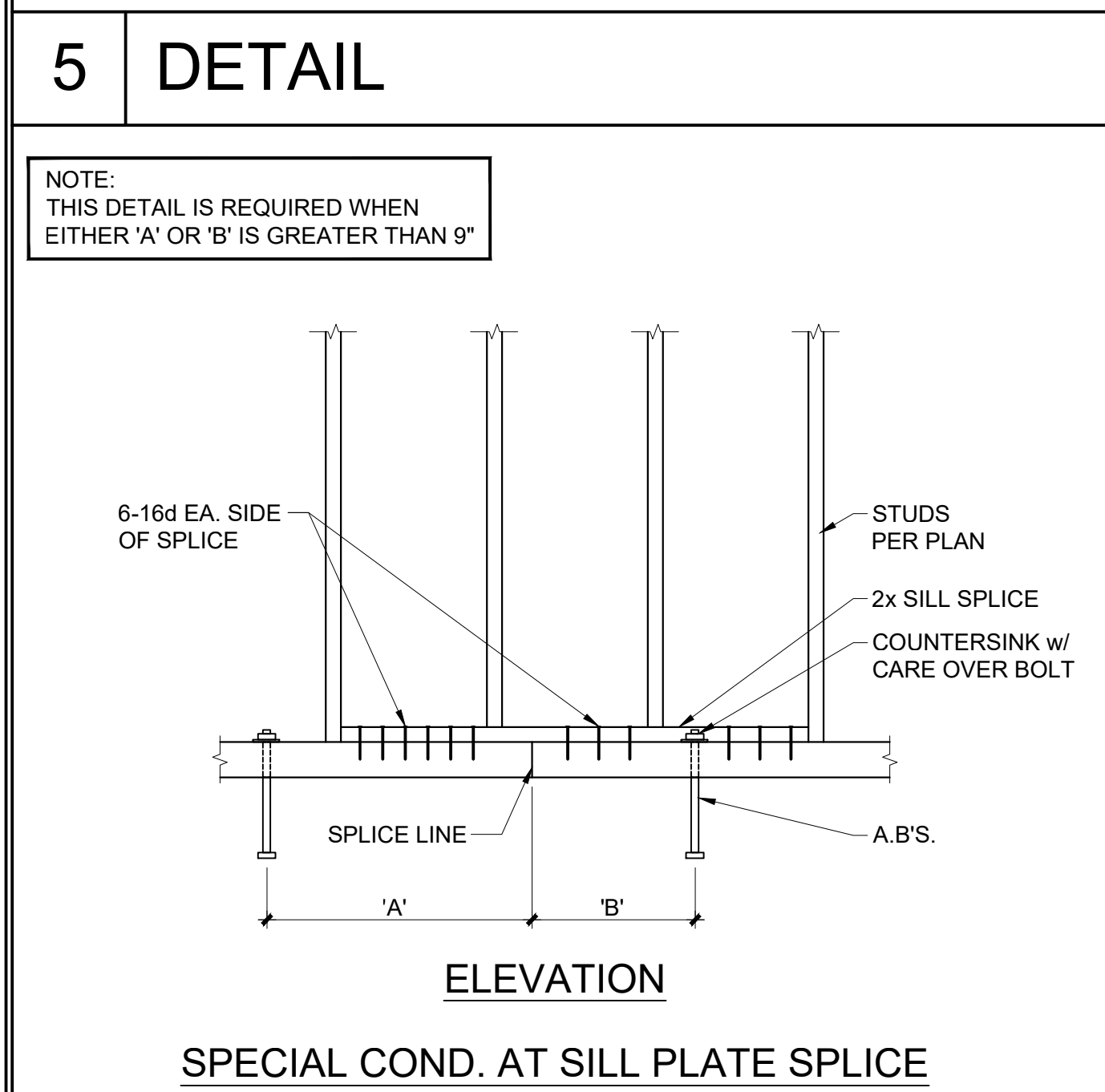
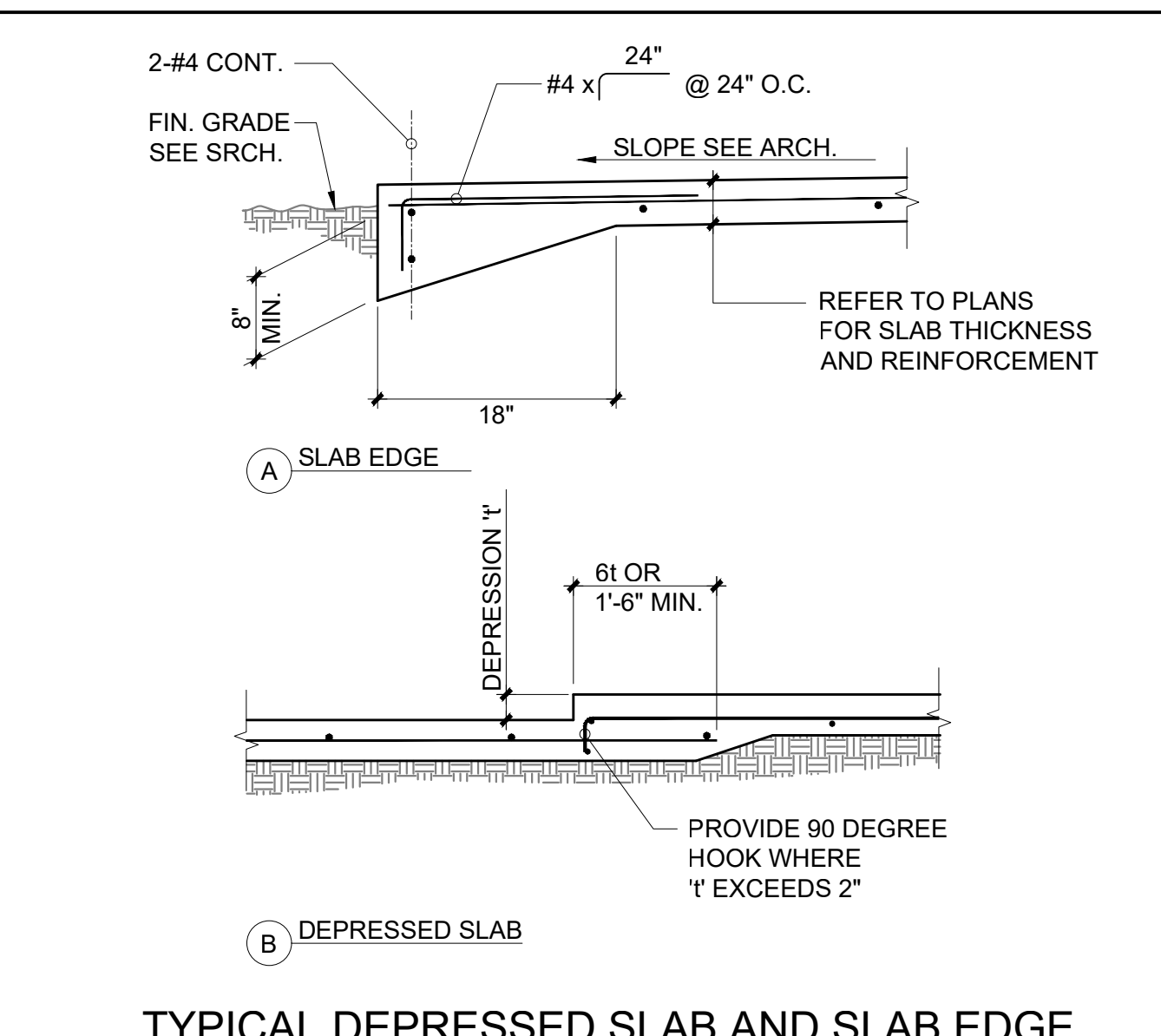
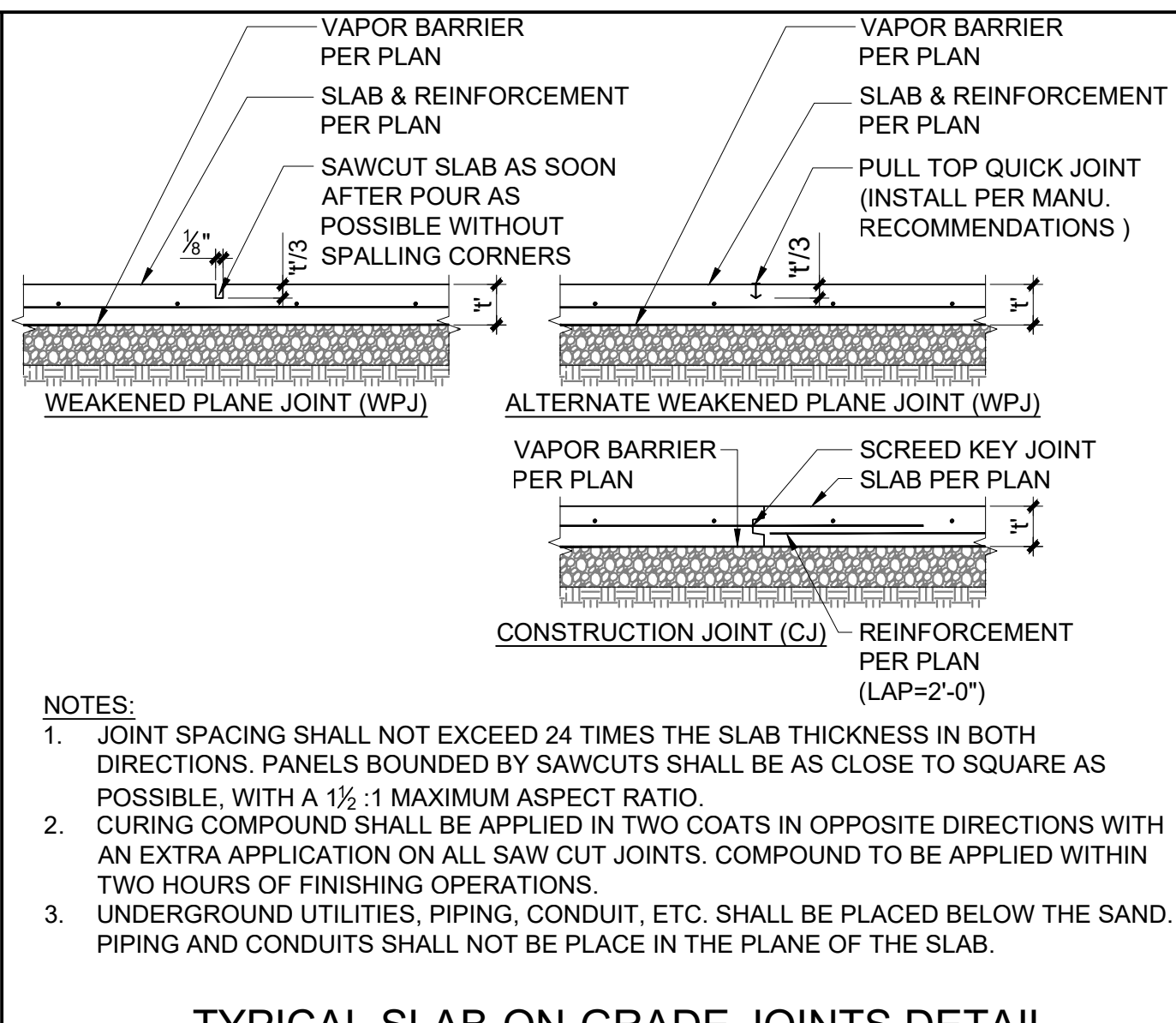
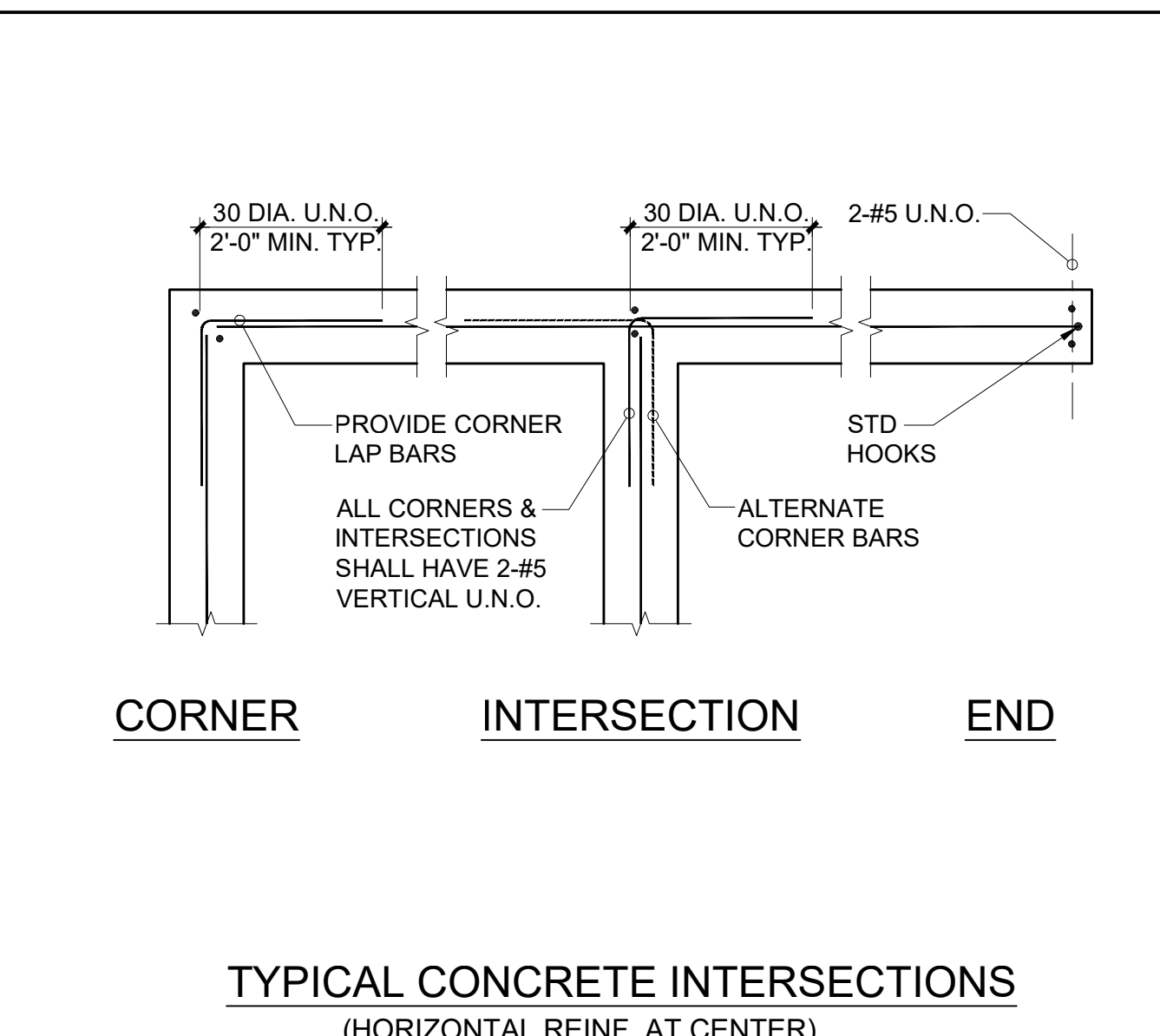
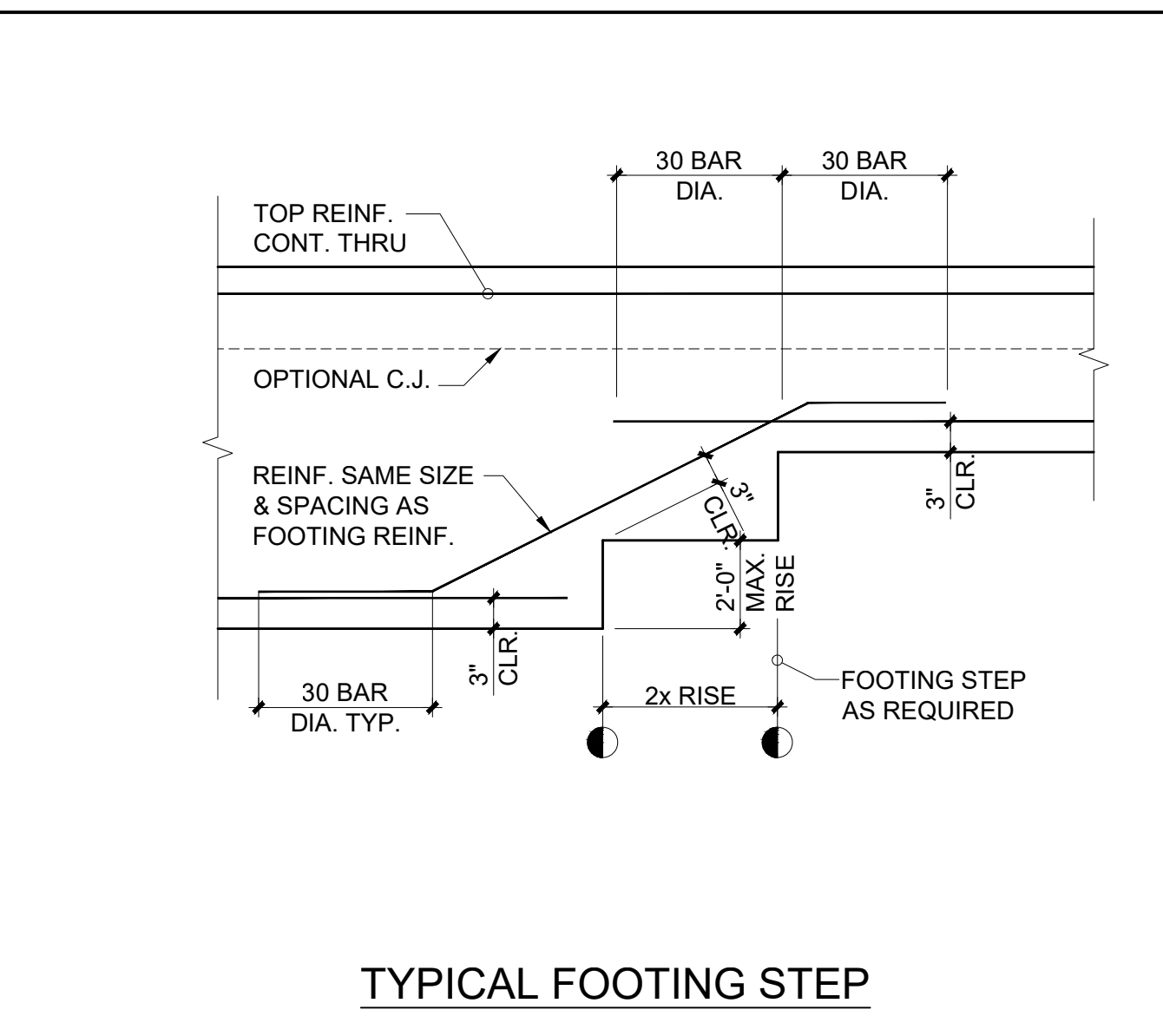
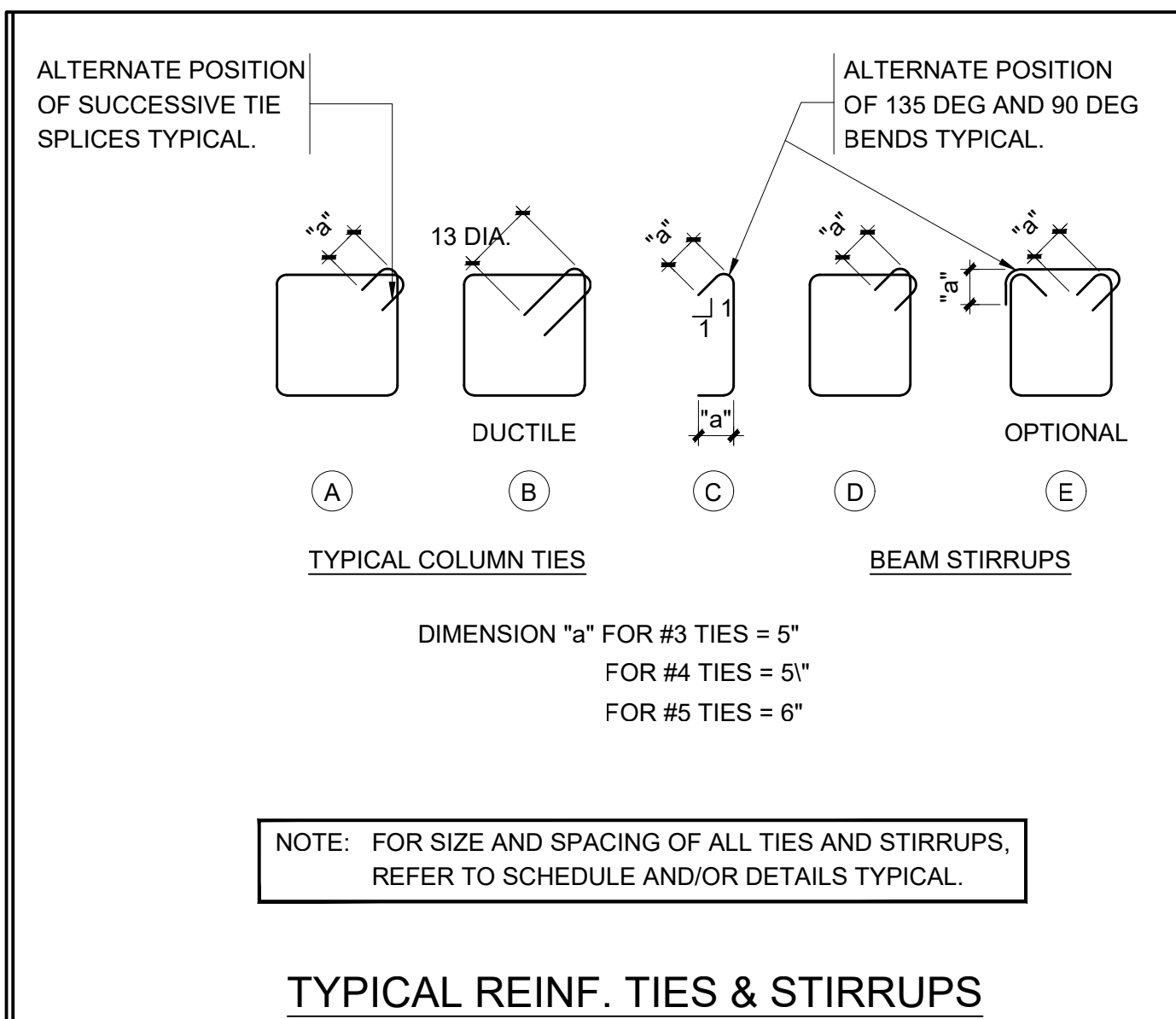
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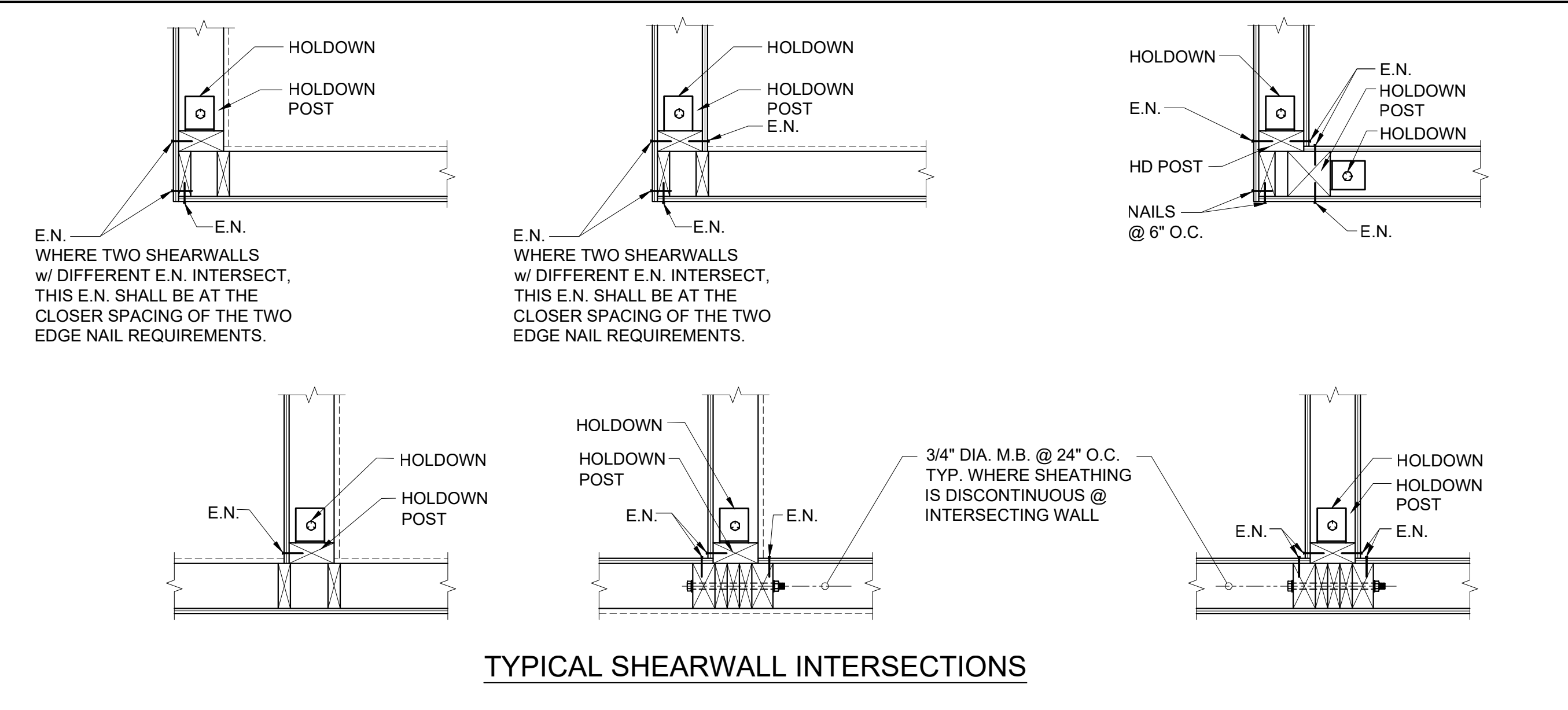
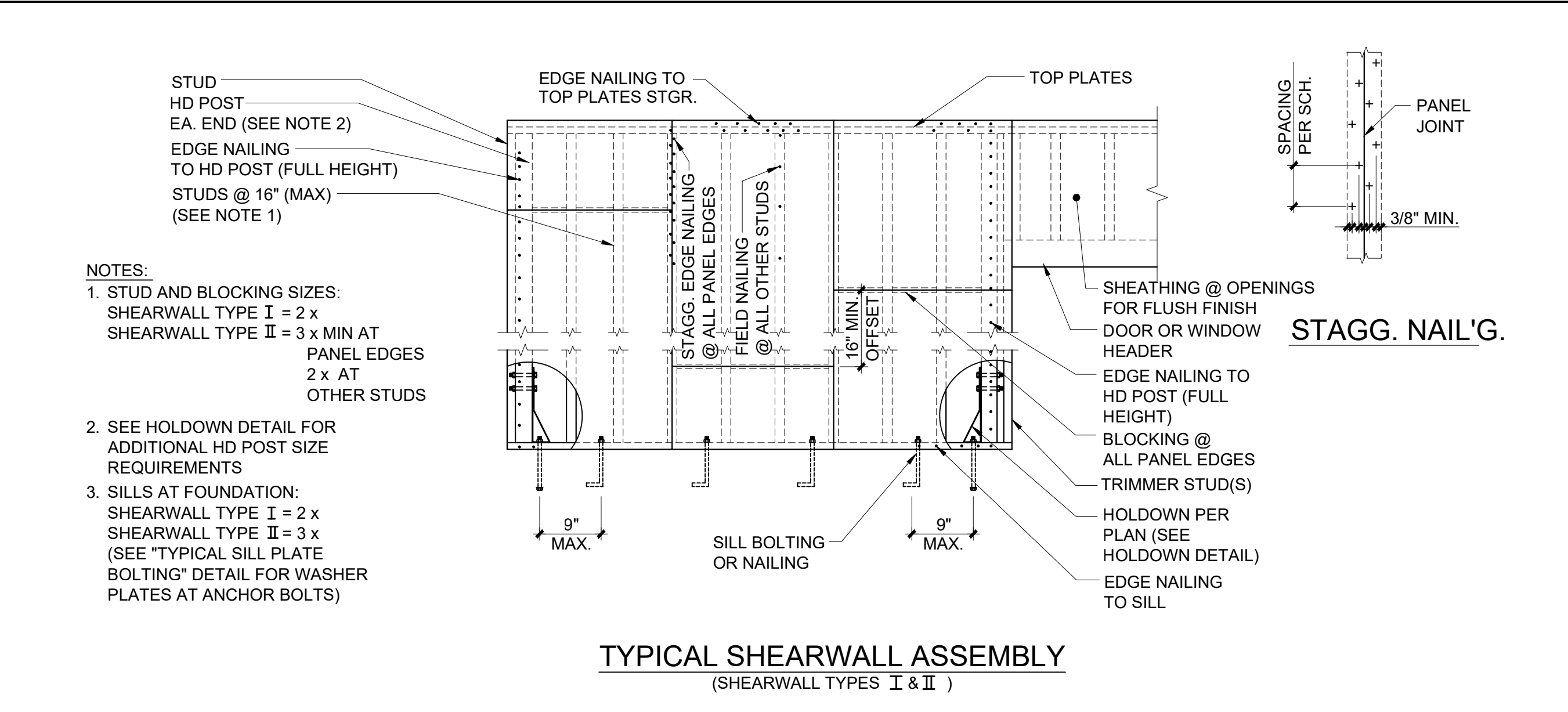
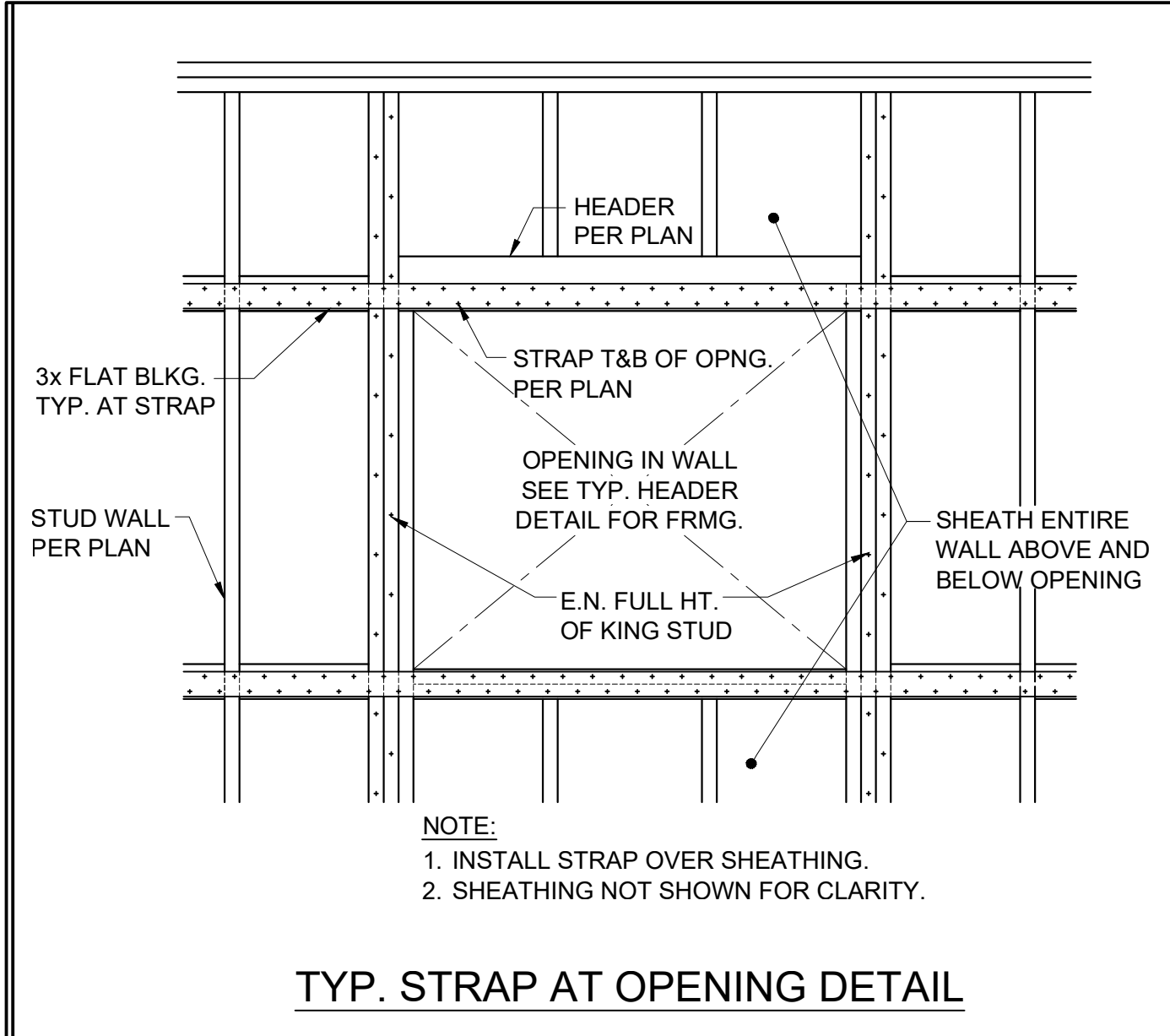
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11.16.2018

BULLETIN 2





5 DETAIL

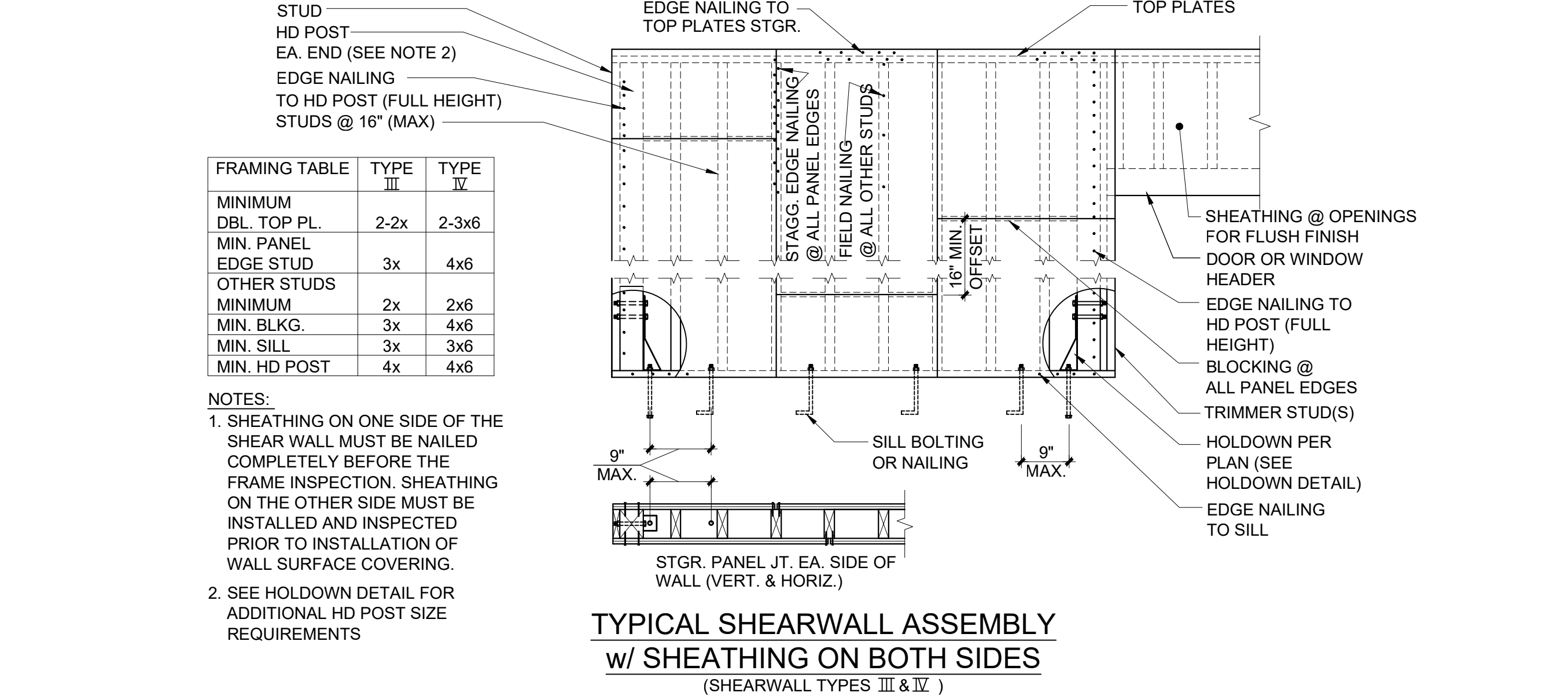
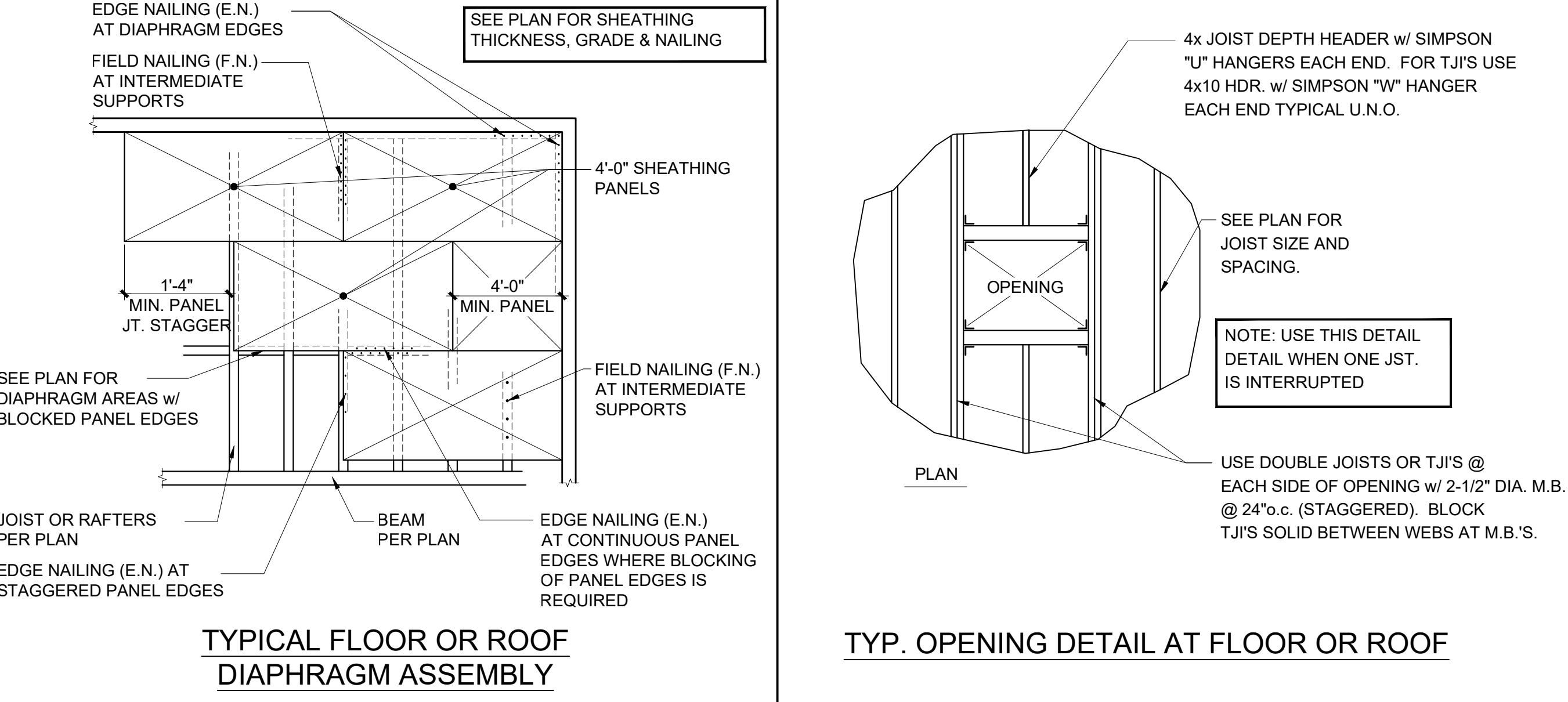
4 DETAIL

2 DETAIL

TOP PLATE SPLICE DESIGN TABLE

MARK	MIN PL. THK	NAILS	DESIGN LOAD	MARK	MIN PL. THK	BOLTS	DESIGN LOAD
N1	2 x	6 - 16d	1250 #	N9	2 x	22 - 16d	3780# / 4600# (1)
N2	2 x	8 - 16d	1670 #	N10	2 x	24 - 16d	3780# / 5010# (1)
N3	2 x	10 - 16d	2090 #	B1	2 x	6 - 5/8	3780# / 5800# (1)
N4	2 x	12 - 16d	2510 #	B2	2 x	8 - 5/8	3780# / 7590# (1)
N5	2 x	14 - 16d	2920 #	B3	2 x	8 - 3/4	3780# / 7590# (1)
N6	2 x	16 - 16d	3340 #	B4	3 x 6	6 - 3/4	11,600 #
N7	2 x	18 - 16d	3760 #	B5	3 x 6	8 - 3/4	12,650 #
N8	2 x	20 - 16d	(1) 3780# / 4180 #				

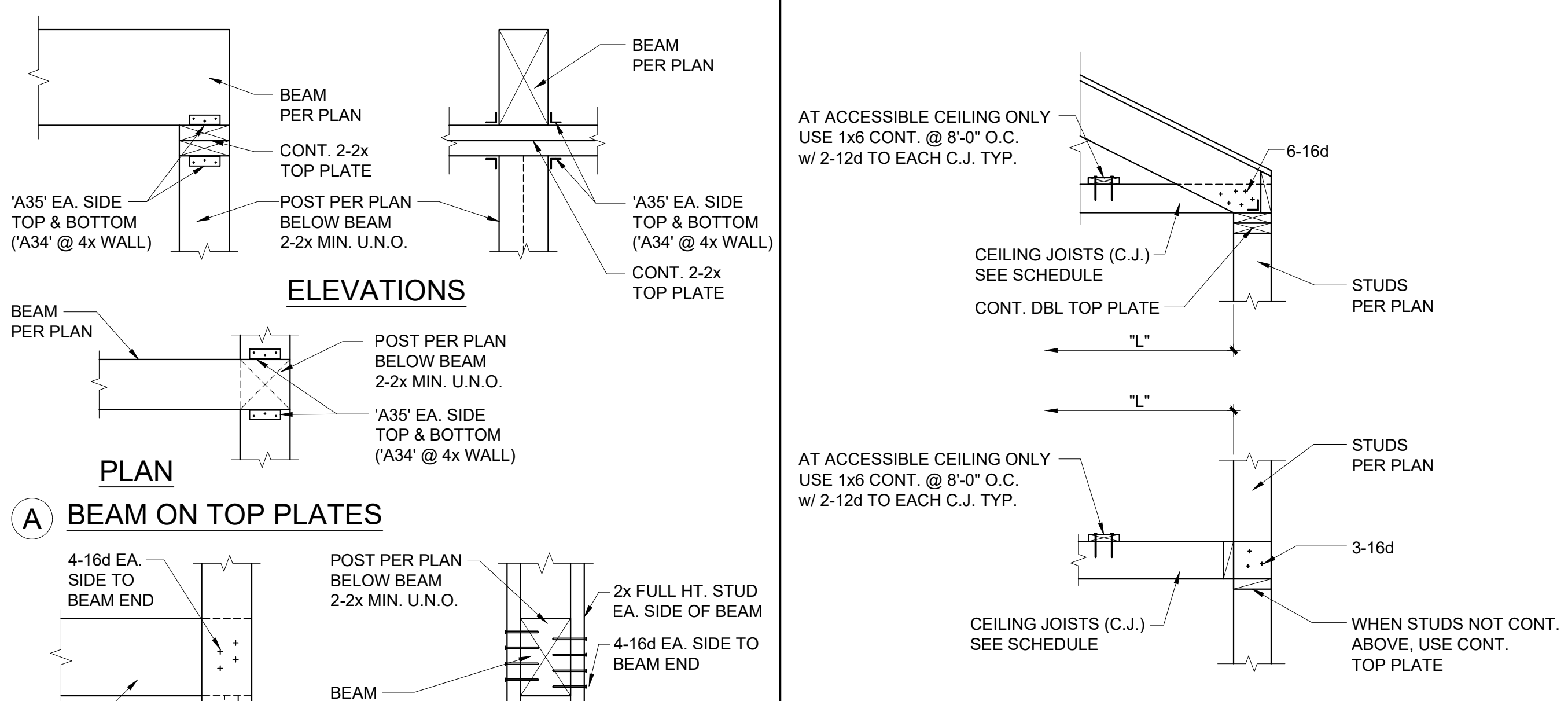
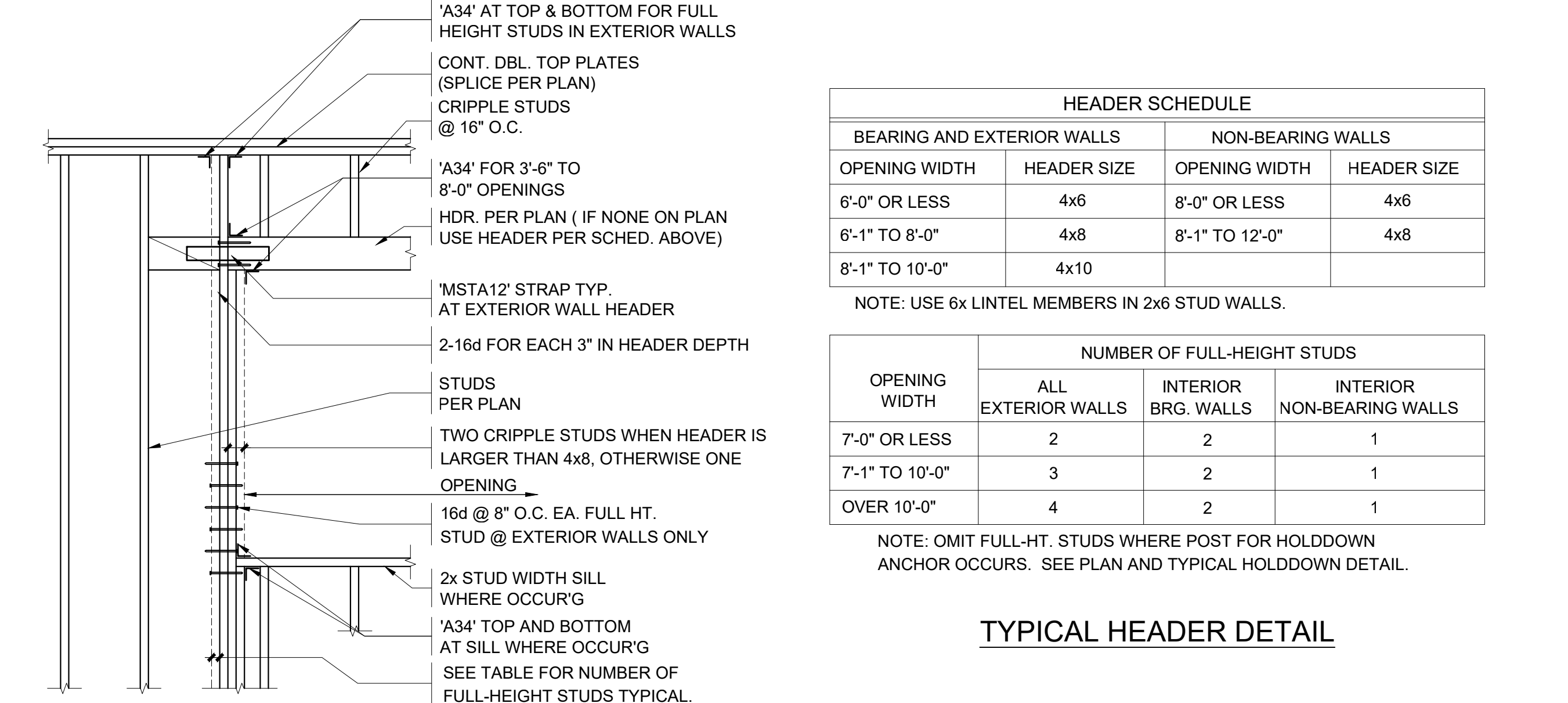
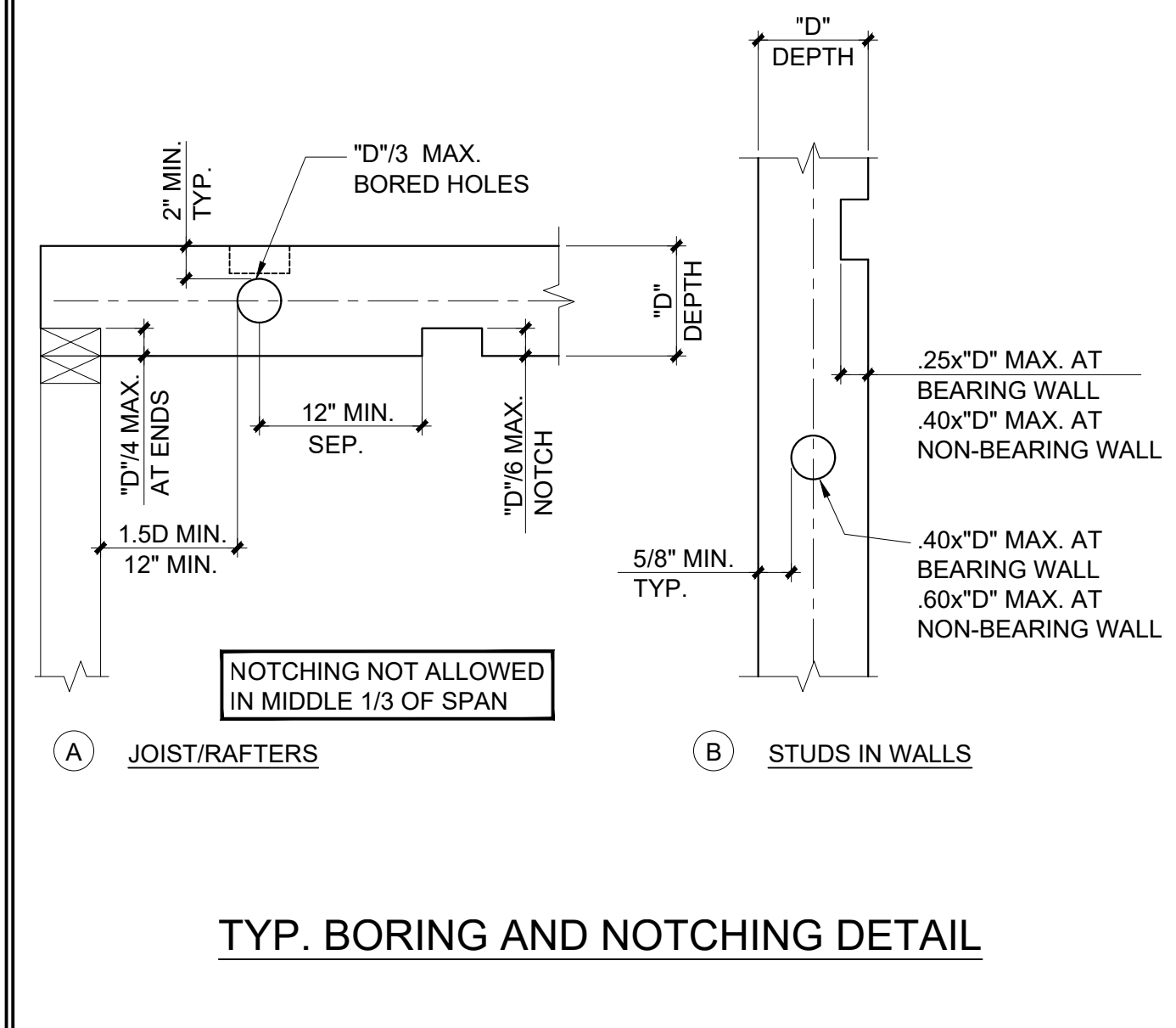
* = 6'-0" MIN LAP LENGTH AT SPLICE 20, 22 & 24 (1) x4 VALUE/ x6 VALUE



10 DETAIL

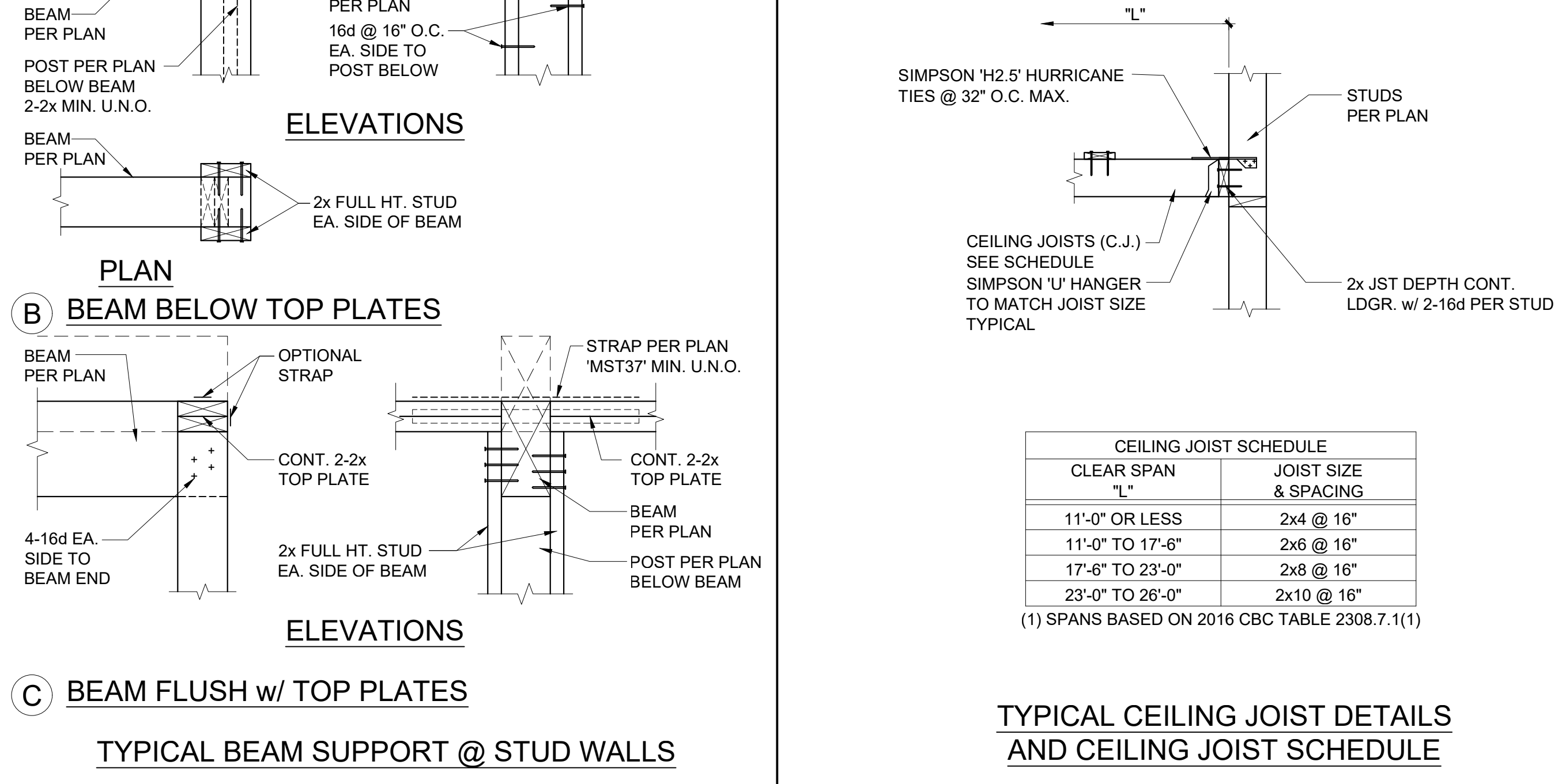
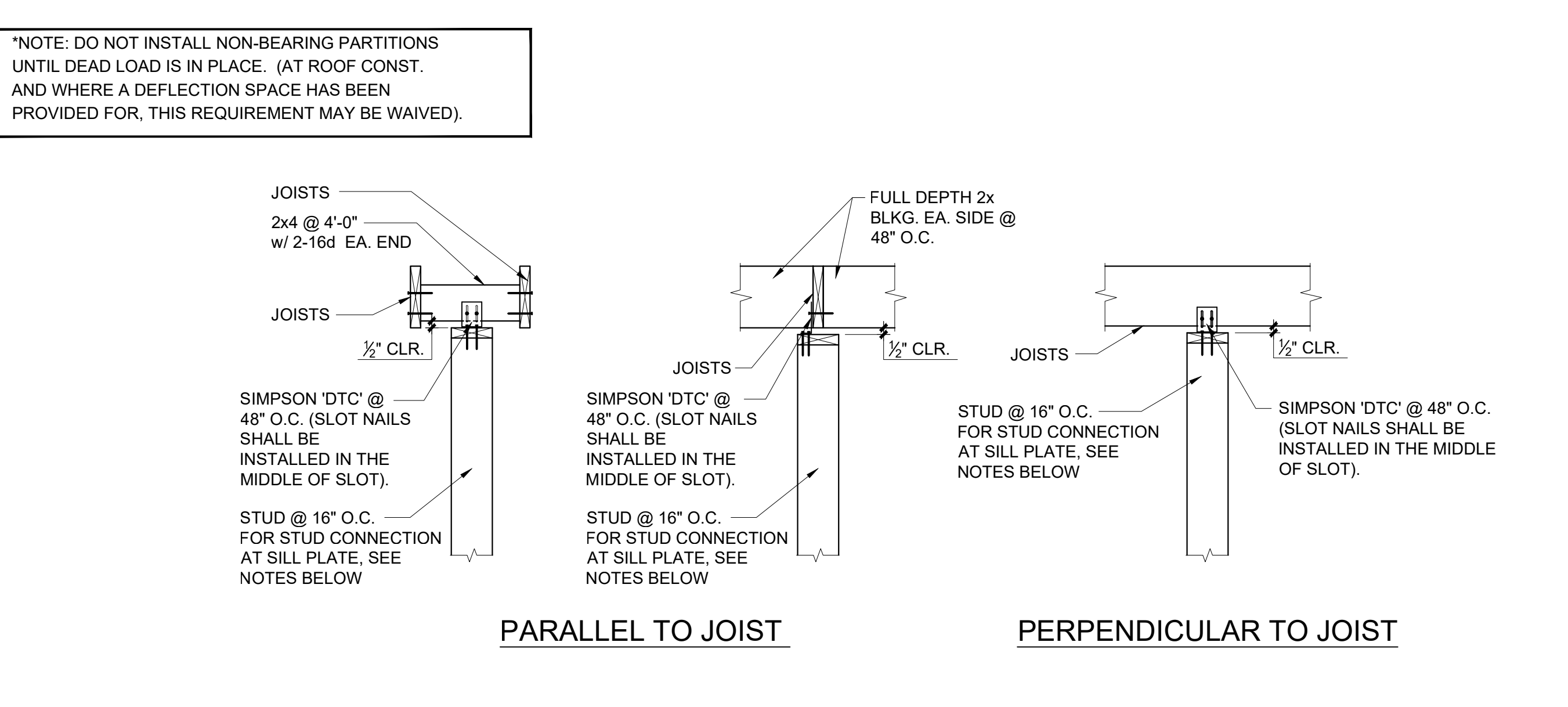
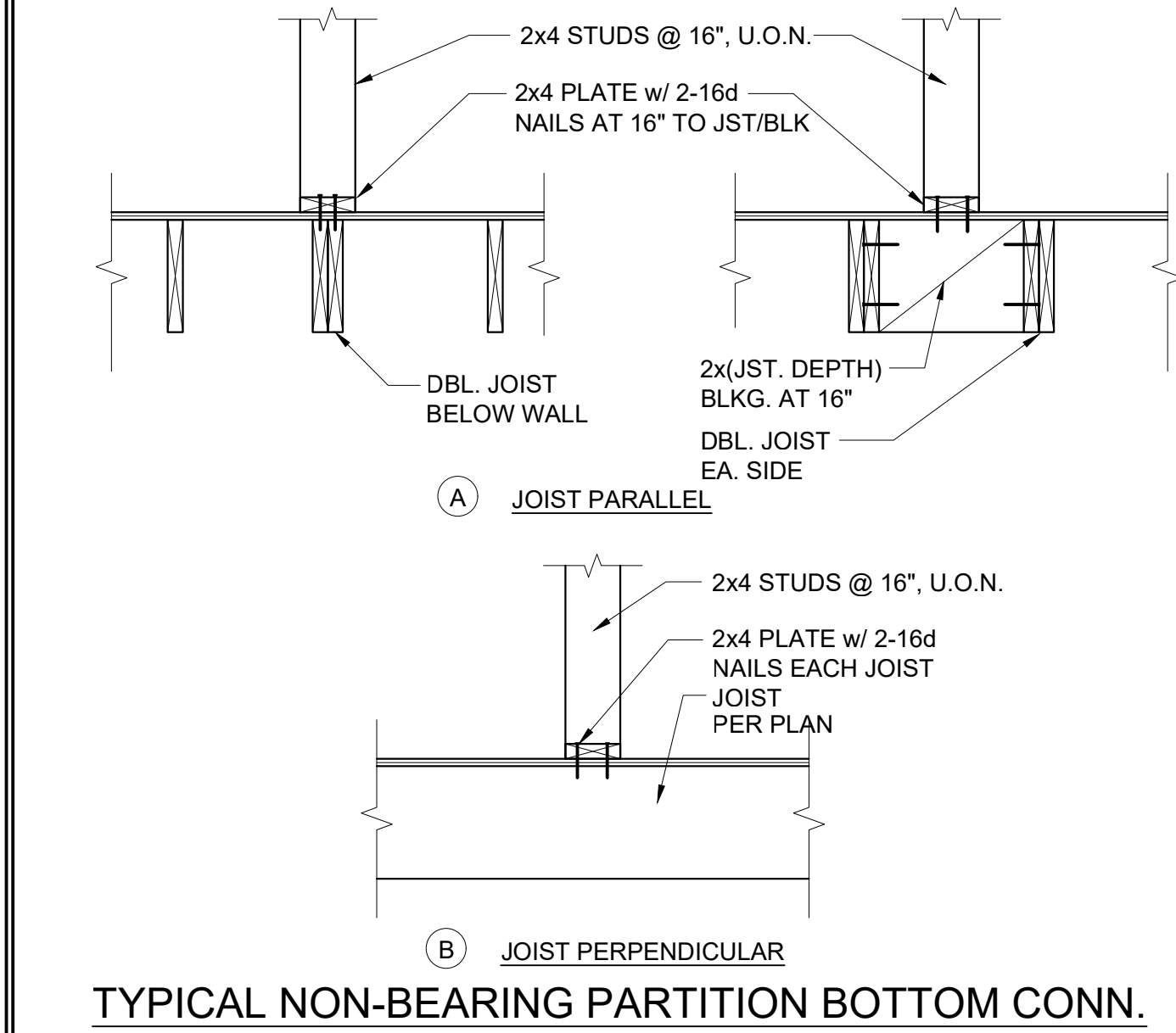
9 DETAIL

7 DETAIL



15 DETAIL

14 DETAIL



20 DETAIL

19 DETAIL

17 DETAIL

ARCHITECT: **LAHMON ARCHITECTS**
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818.789.5550

PROJECT: **KENSINGTON CAMPUS**
AVENUE I & WEST 32ND STREET
LANCASTER, CA 93536
BUILDINGS:
45260 32ND ST W
45244 32ND ST W

PHASE: **BULLETIN 2**
11.16.2018

STAMP: **DAVID CHOI**
REGISTERED PROFESSIONAL ENGINEER
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STRUCTURAL
ENGINEER
CALIFORNIA

REV # 2 DESCRIPTION Bulletin 2 DATE 11/16/2018

KEY PLAN

DCA PROJECT NO. 18-122
PLOT DATE 11.16.2018
SCALE AS SHOWN

SHEET TITLE

TYPICAL DETAILS

SHEET NO.

S3.1

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11.16.2018

5	DETAIL			3	DETAIL			
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ARCHITECT:

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PROJECT:
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45260 32ND ST W
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PHASE:
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DAVID CHOI
REV 2 DESCRIPTION Bulletin 2 DATE 11/16/2018

KEY PLAN

DCA PROJECT NO. 18-122
PLOT DATE 11.16.2018
SCALE AS SHOWN
SHEET TITLE
TYPICAL DETAILS
SHEET NO.
S3.3

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David Choi

DAVID CHOI

REV # 2

DESCRIPTION Bulletin 2

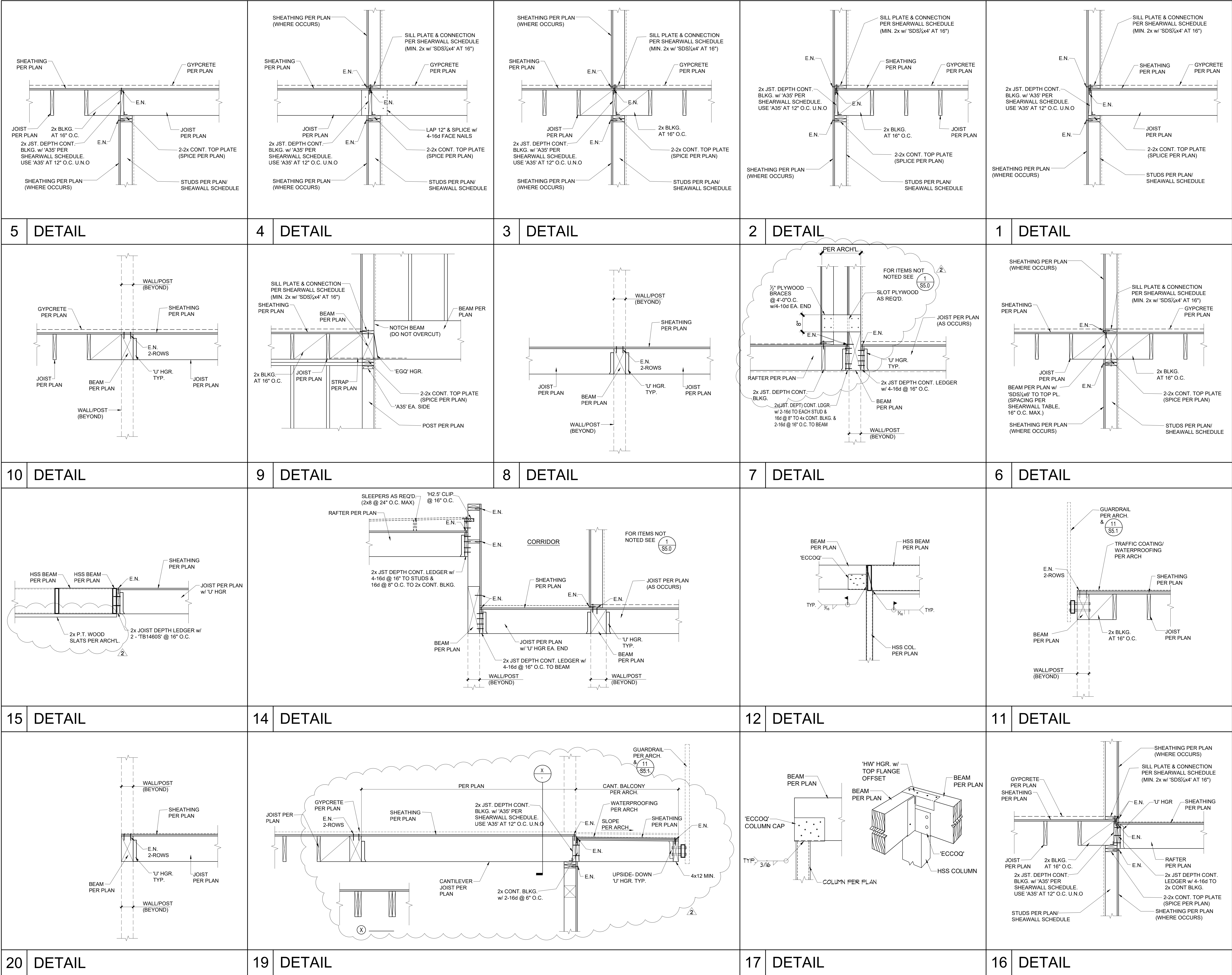
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KEY PLAN:

DCA PROJECT NO. 18-122
PLOT DATE 11.16.2018
SCALE AS SHOWN
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SHEET NO.
S4.0
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SCALE AS SHOWN

SHEET TITLE

FLOOR DETAILS

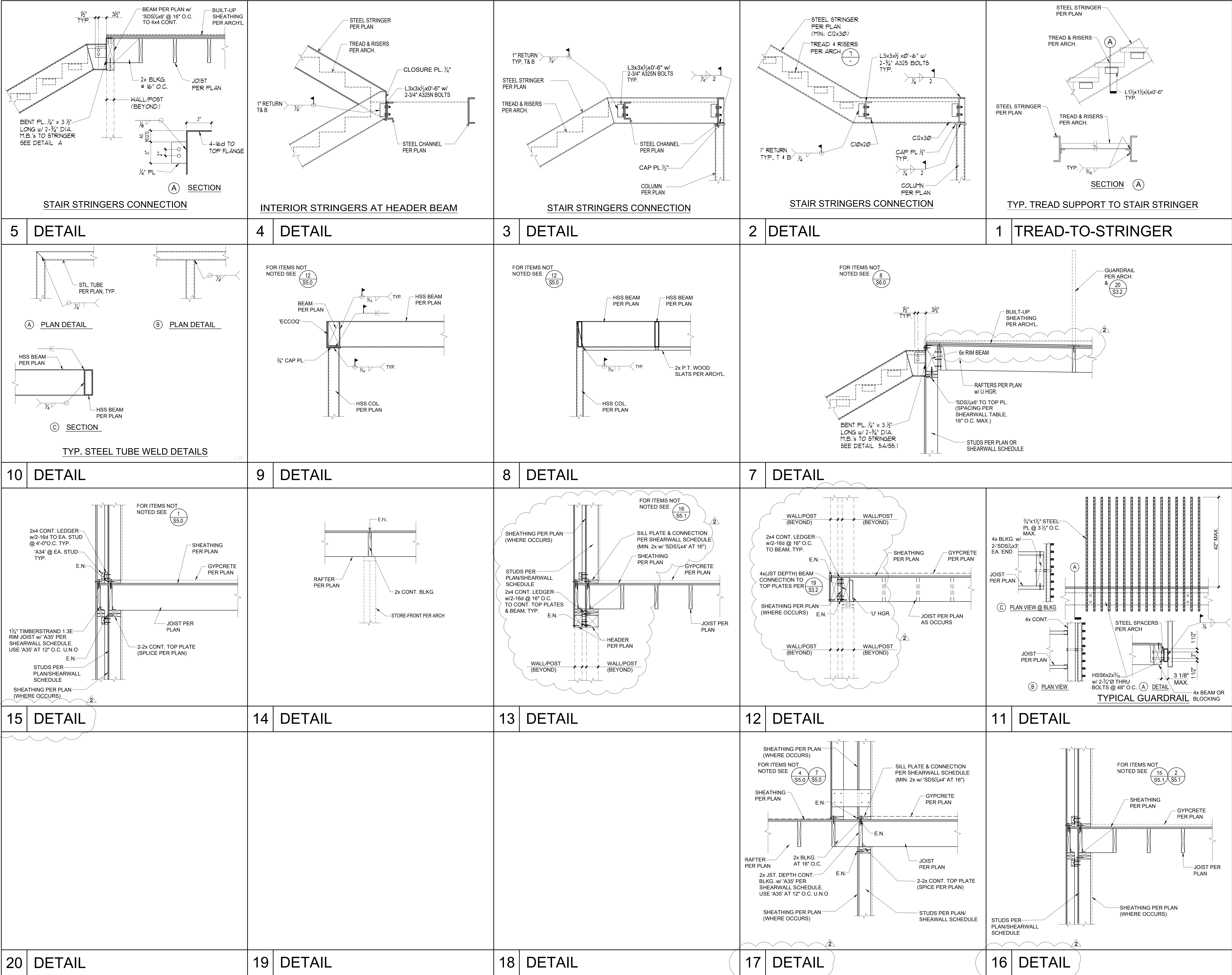
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SHEET TITLE

FLOOR DETAILS

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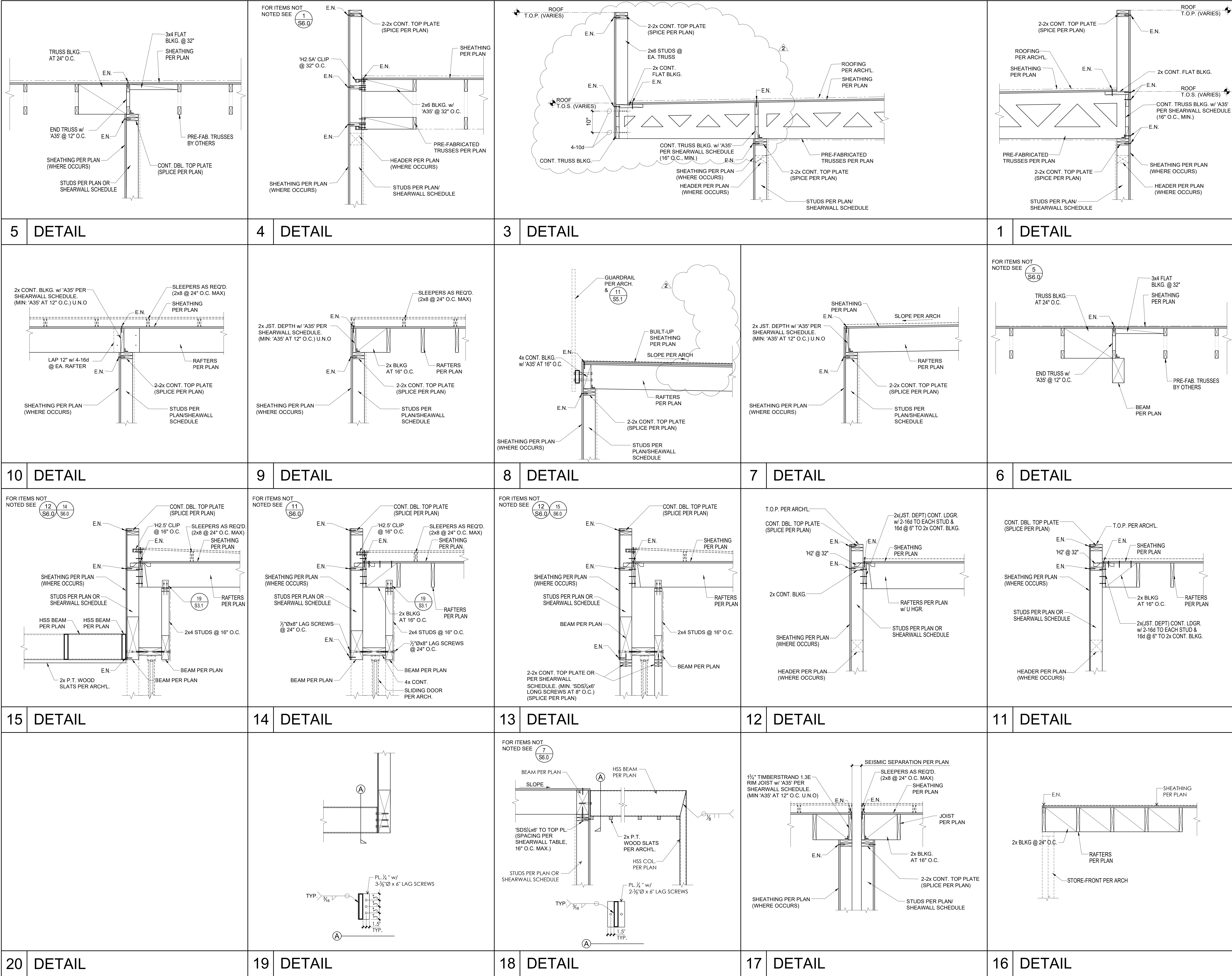
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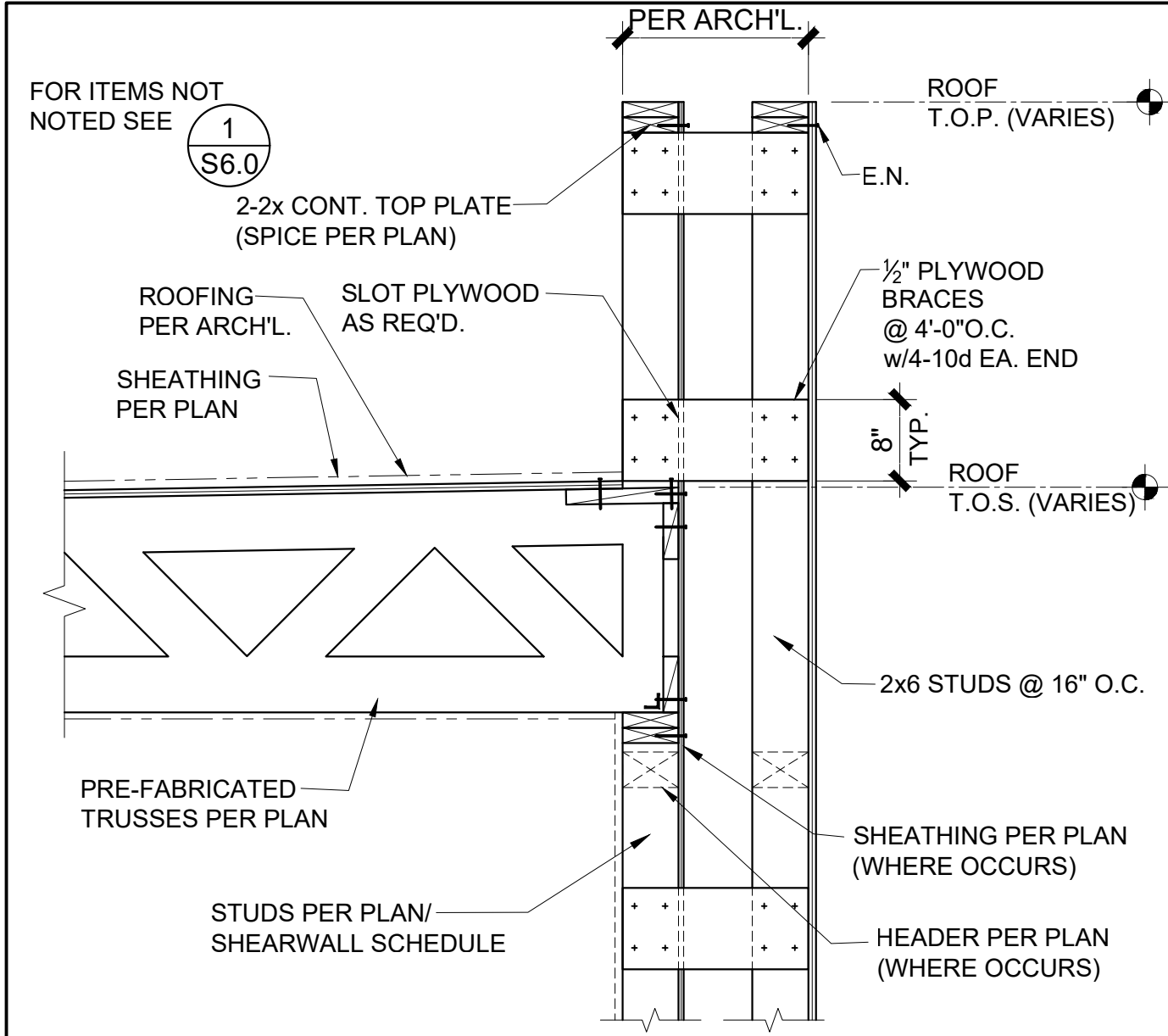
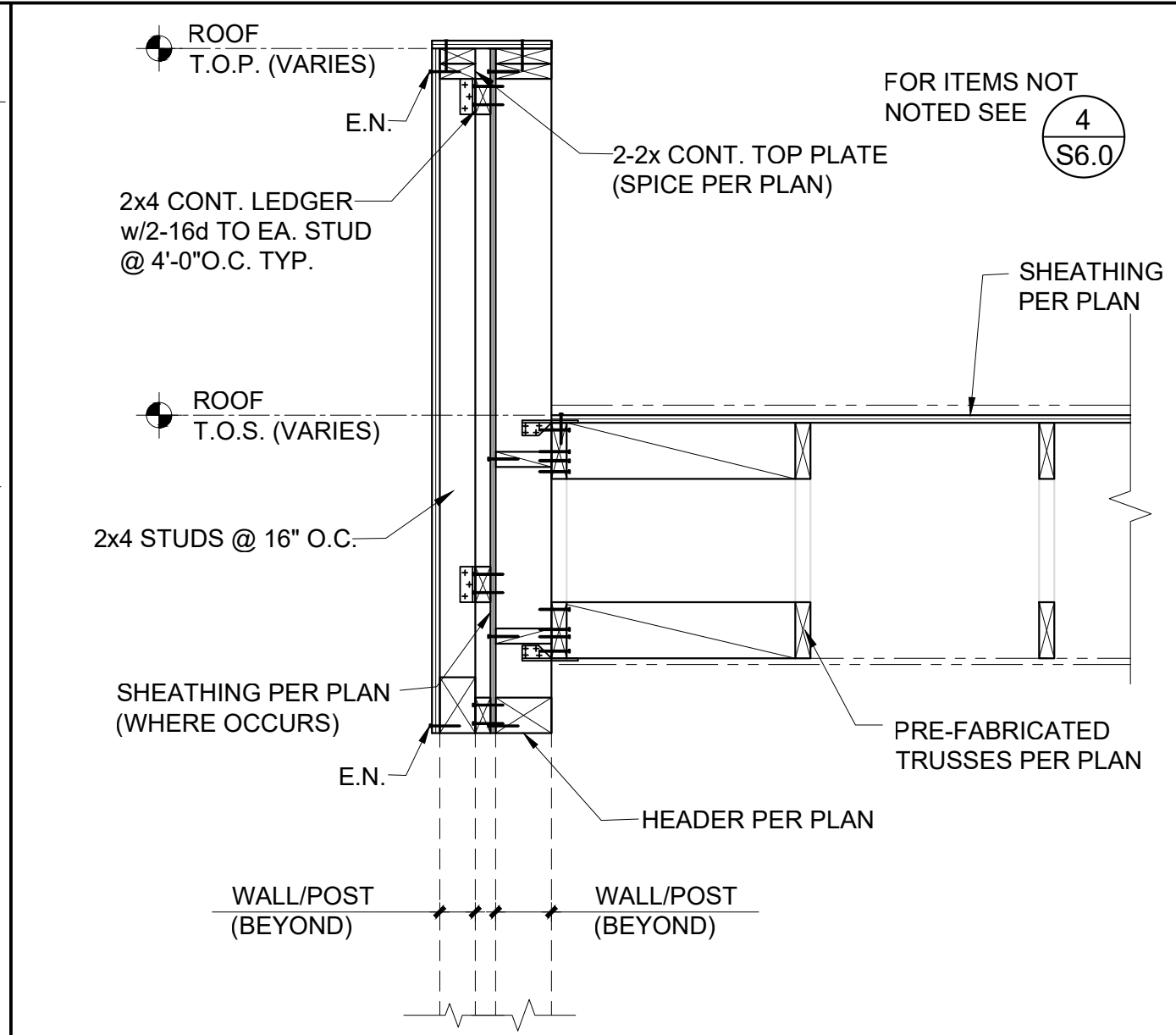
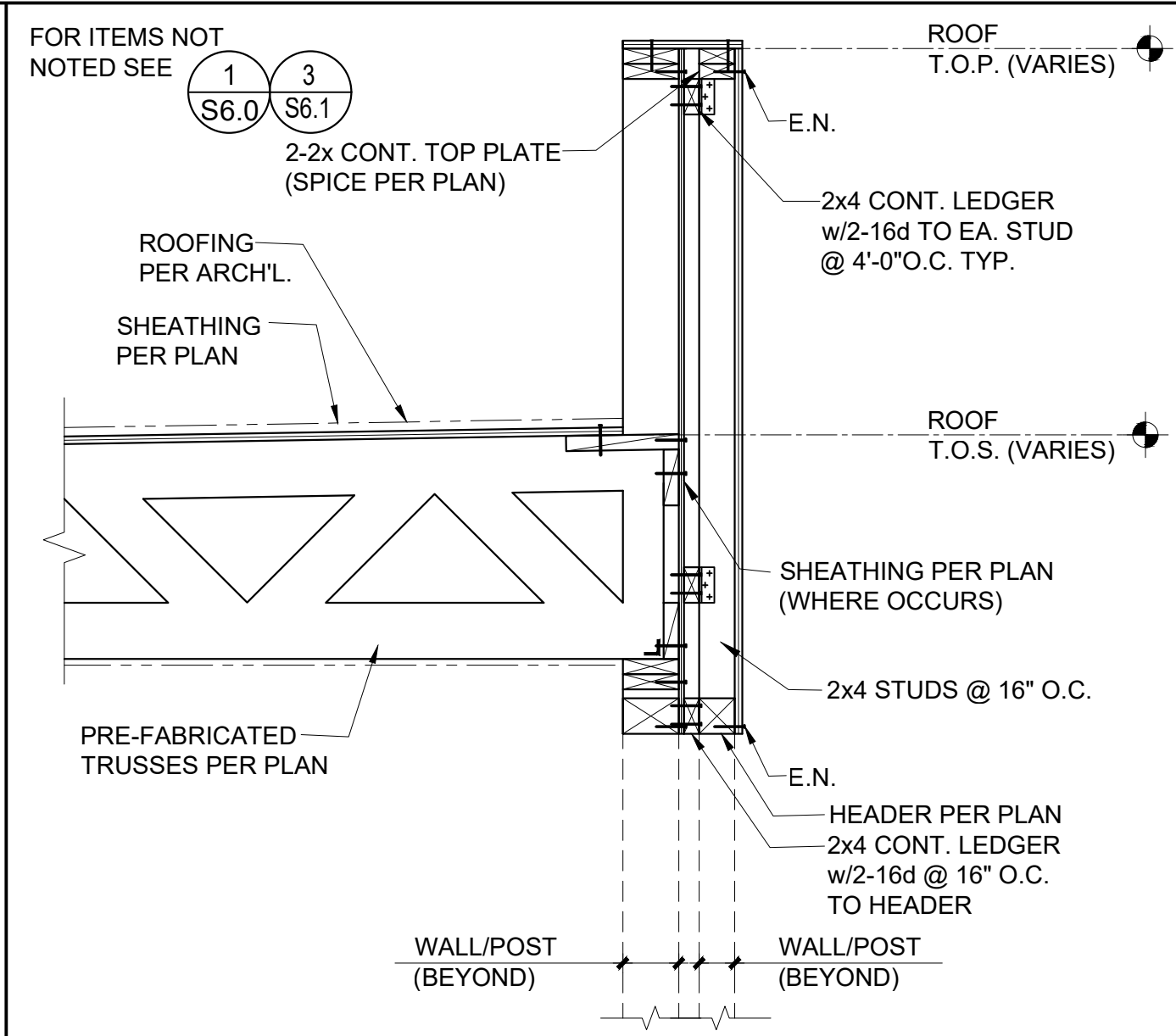
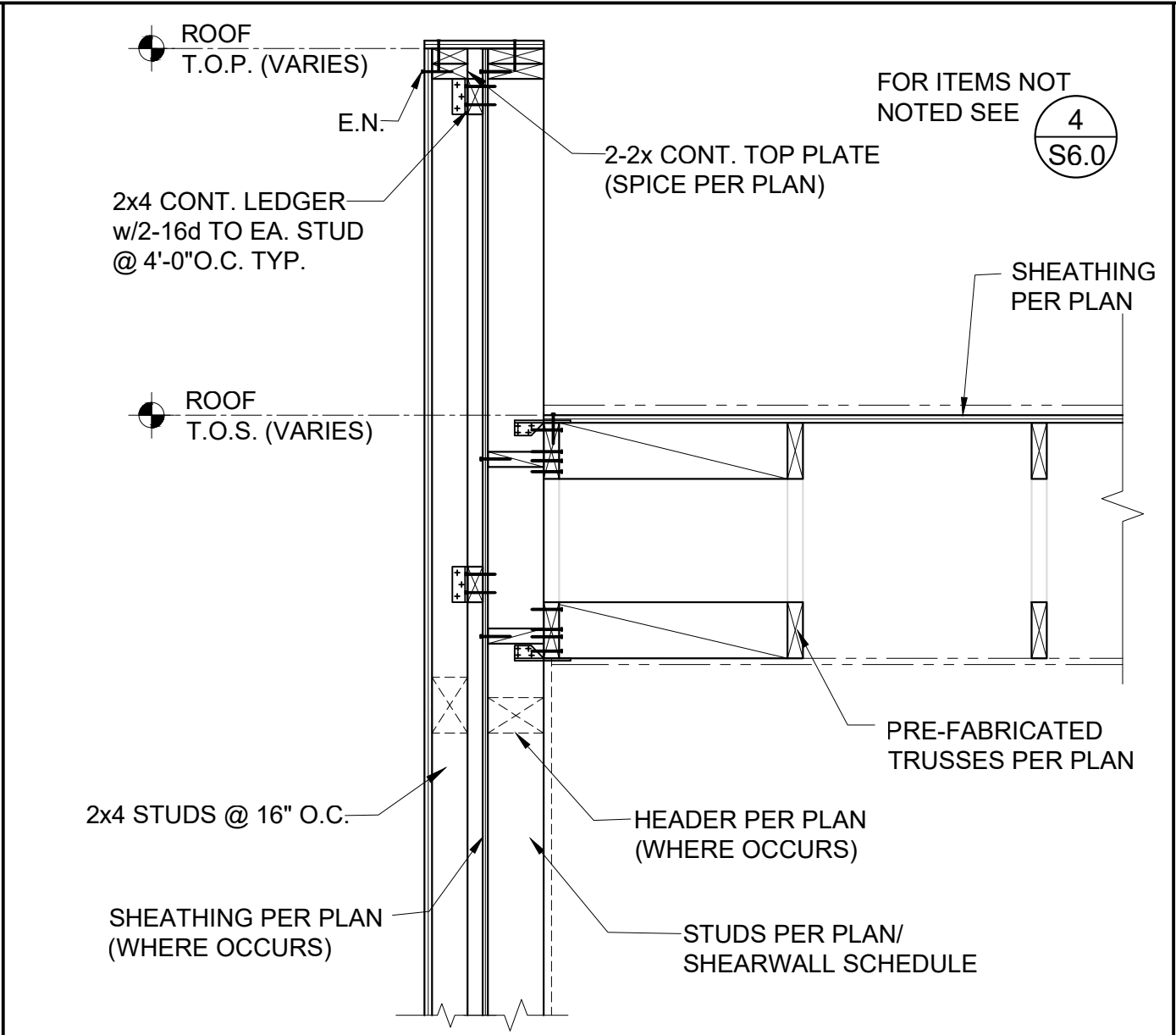
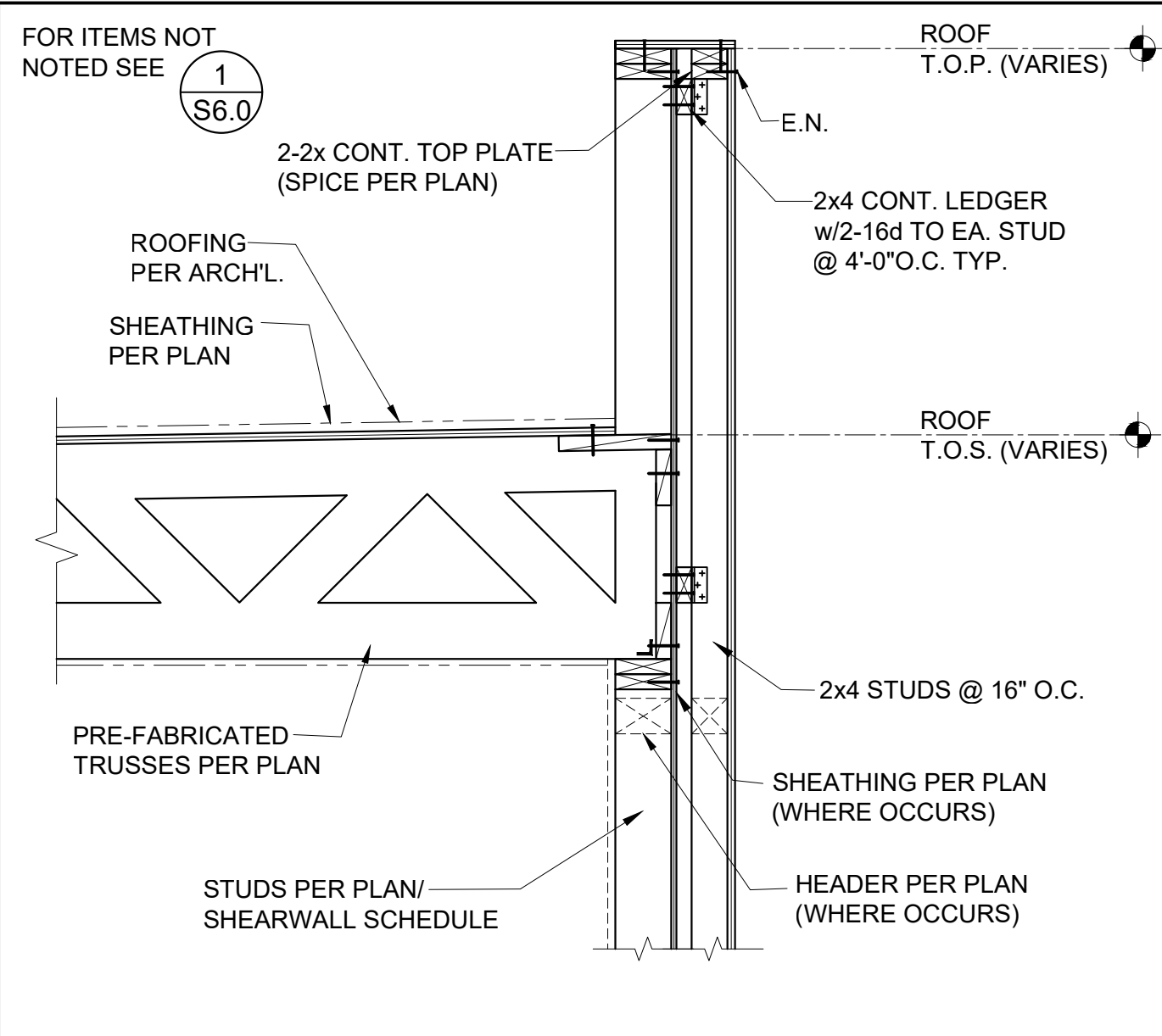
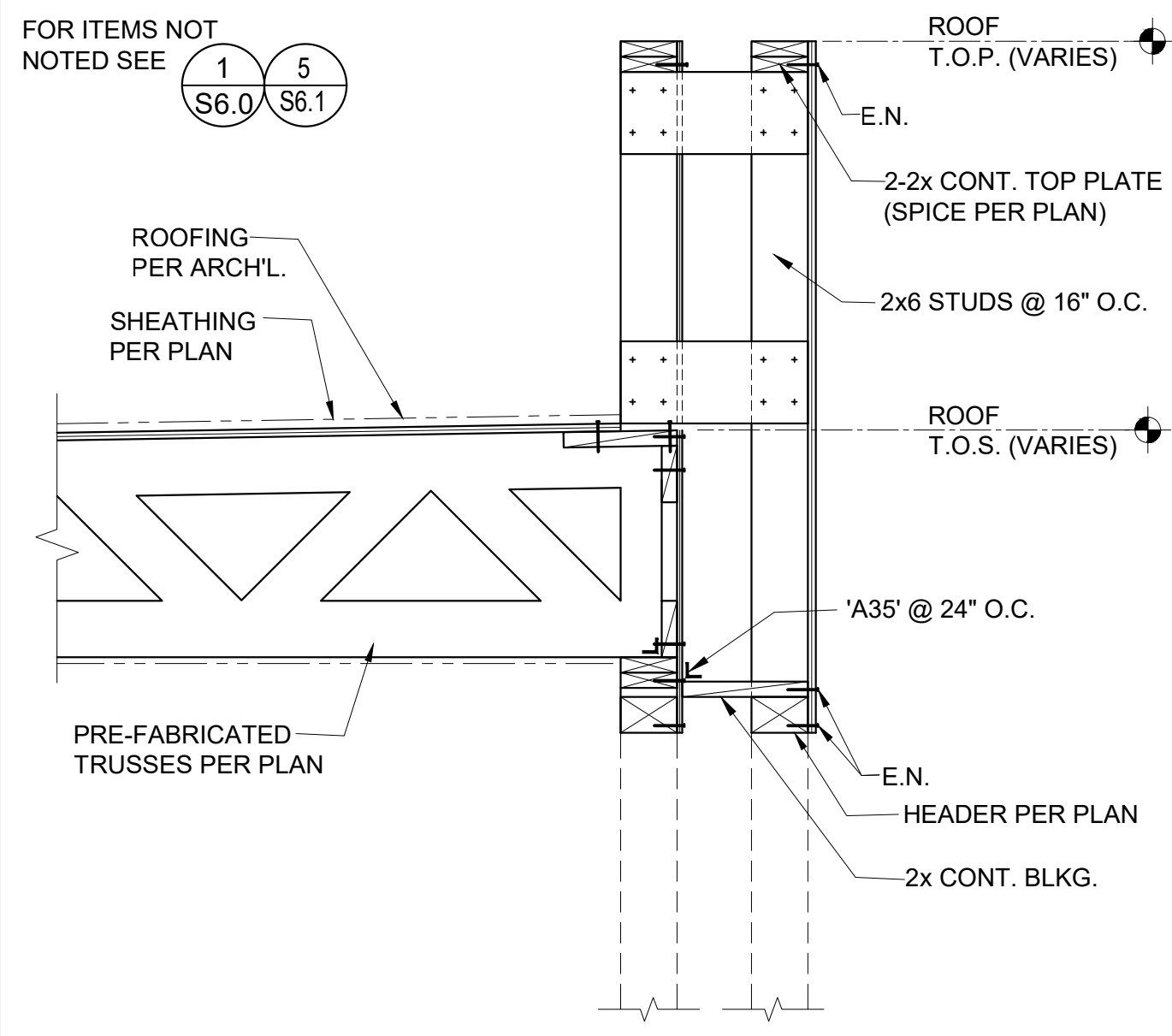
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DAVID CHOI
REV # 2 DESCRIPTION Bulletin 2 DATE 11/16/2018

KEY PLAN:

DCA PROJECT NO. 18-122
PLOT DATE 11.16.2018
SCALE AS SHOWN
SHEET TITLE
ROOF FRAMING DETAILS
SHEET NO.
S6.0
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PLOT DATE 11.16.2018

SCALE AS SHOWN

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ROOF FRAMING DETAILS

SHEET NO.

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