

PA POST-INSTALLED ANCHORS

- PA-1 POST-INSTALLED ANCHORS INCLUDE EXPANSION ANCHORS, SCREW ANCHORS, EPOXY ANCHORS/DOWELS, AND POWDER-ACTUATED FASTENERS.
- PA-2 INSTALL POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE ICC-ES REPORT AND THE MANUFACTURER'S RECOMMENDATIONS.
- PA-3 USE SCANNING EQUIPMENT OR OTHER MEANS TO LOCATE AND AVOID CUTTING OR DAMAGING REINFORCING BARS. SER APPROVAL IS REQUIRED PRIOR TO CUTTING OR DAMAGING REINFORCING.
- PA-4 SPECIAL INSPECTION IS REQUIRED FOR ALL POST-INSTALLED ANCHOR INSTALLATIONS, UON.
- PA-5 FIELD TESTING OF POST-INSTALLED ANCHORS IS REQUIRED, UON. TEST INSTALLED ANCHORS IN ACCORDANCE WITH THE FOLLOWING:

A. TEST 100% OF ANCHORS AT ALL STRUCTURAL APPLICATIONS, UON.

B. TEST 50% OF ANCHORS AT ALL NON-STRUCTURAL APPLICATIONS (SUCH AS EQUIPMENT ANCHORAGE), UON.

C. TEST 10% OF ANCHORS AT SILL PLATE BOLTING APPLICATIONS, UON.

D. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS.

E. FIELD TESTS SHALL BE EITHER TENSION TESTS OR TORQUE TESTS, AS REQUIRED FOR THE SPECIFIC ANCHOR TYPE.

F. TENSION TESTS: APPLY TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS AS THE ORIGINAL NUT USING A TORQUE WRENCH. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY THE FIXTURES. TO BE ACCEPTABLE, ANCHORS SHALL HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD (OBSERVABLE MOVEMENT IS DEFINED AS THE WASHER UNDER THE NUT BECOMING LOOSE).

G. TORQUE TESTS: TO BE ACCEPTABLE, THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN ONE-HALF TURN OF THE NUT.

H. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

I. FIELD TESTING SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR.

PA-6 EXPANSION ANCHORS

A. EXPANSION ANCHORS SHALL BE ONE OF THE FOLLOWING, UON:

CARBON STEEL HILTI KWIK BOLT TZ (ICC-ES REPORT ESR-1917)

SIMPSON STRONG-BOLT (ICC-ES REPORT ESR-1771)

B. ANCHOR EMBEDMENT AND FIELD TEST VALUES ARE AS FOLLOWS, UON:

HILTI KWIK BOLT TZ IN NORMAL-WEIGHT CONCRETE			
ANCHOR DIAMETER	Hef	MINIMUM HOLE DEPTH	TORQUE TEST VALUE (FT-LBS)
3/8"	2"	2-5/8"	25
1/2"	2"	2-5/8"	40
5/8"	4"	4-3/4"	60
3/4"	4-3/4"	5-3/4"	110

HILTI KWIK BOLT TZ IN LIGHTWEIGHT CONCRETE			
ANCHOR DIAMETER	Hef	MINIMUM HOLE DEPTH	TORQUE TEST VALUE (FT-LBS)
3/8"	2"	2-5/8"	25
1/2"	2"	2-5/8"	40
5/8"	3-1/8"	3-7/8"	60

SIMPSON STRONG-BOLT IN NORMAL-WEIGHT CONCRETE			
ANCHOR DIAMETER	Hef	MINIMUM HOLE DEPTH	TORQUE TEST VALUE (FT-LBS)
1/2"	2-1/4"	2-3/4"	50
5/8"	4-1/2"	5-1/8"	85
3/4"	5"	5-3/4"	180
1"	9"	9-3/4"	230

SIMPSON STRONG-BOLT IN LIGHTWEIGHT CONCRETE			
ANCHOR DIAMETER	Hef	MINIMUM HOLE DEPTH	TORQUE TEST VALUE (FT-LBS)
1/2"	2-1/4"	2-3/4"	40
5/8"	2-3/4"	3-3/8"	40

- C. Hef IS MEASURED FROM FACE OF CONCRETE SUBSTRATE TO THE TEETH ON THE EXPANSION ELEMENT.
- D. CONTRACTOR SHALL PROVIDE ANCHORS WITH SUFFICIENT TOTAL LENGTH FOR THE SPECIFIED EMBEDMENT LENGTH, THICKNESS OF FASTENED PART, WASHER AND NUT.

- PA-7 SCREW ANCHORS

A. SCREW ANCHORS SHALL BE SIMPSON TITEN HD (ICC-ES REPORT ESR-2713), UON.

B. ANCHOR EMBEDMENT SHALL BE AS SPECIFICALLY DETAILED ELSEWHERE IN THE DRAWINGS.

C. FIELD TEST VALUES ARE AS FOLLOWS, UON:

SCREW ANCHORS	
ANCHOR DIAMETER (IN)	TORQUE TEST VALUE (FT-LBS)
3/8	10
1/2	10
3/4	20

- PA-8 EPOXY ANCHORS AND DOWELS

A. EPOXY SHALL BE ONE OF THE FOLLOWING, UON:

HILTI HY-150 MAX-SD (ICC-ES REPORT ESR-3013)

HILTI HIT-RE 500-SD (ICC-ES REPORT ESR-2322)

SIMPSON SET-XP (ICC-ES REPORT ESR-2508)

B. RODS EMBEDDED IN EPOXY SHALL BE CARBON STEEL THREADED RODS PER THE EPOXY MANUFACTURER'S ICC-ES REPORT.

C. REINFORCING STEEL BARS EMBEDDED IN EPOXY SHALL BE ASTM A615, GRADE 60, UON.

D. ANCHOR EMBEDMENT AND FIELD TEST VALUES ARE AS FOLLOWS, UON:

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (3000 PSI MIN)				
REBAR SIZE	EMBEDMENT (IN)	TENSION TEST VALUE (LBS)		
		HILTI HY-150 MAX-SD	HILTI HIT-RE 500-SD	SIMPSON SET-XP
#3	3	1420	2050	*
#4	4	2760	3640	5790
#5	5	4640	5750	6250
#6	6	7180	8150	11070
#7	7	9860	10140	8450
#8	8	12970	12380	17050
#9	9	*	14700	*
#10	10	*	16780	*
* LISTED EPOXY ADHESIVE MAY NOT BE USED WITH NOTED REBAR SIZES				

EPOXY ANCHORS IN NORMAL-WEIGHT CONCRETE (3000 PSI MIN)				
THREADED ROD DIAMETER (IN)	EMBEDMENT (IN)	TENSION TEST VALUE (LBS)		
		HILTI HY-150 MAX-SD	HILTI HIT-RE 500-SD	SIMPSON SET-XP
3/8	3	1420	2030	*
1/2	4	2760	3060	4090
5/8	5	4640	5770	6250
3/4	6	7180	8150	9650
7/8	7	9860	10200	8450
1	8	12970	12310	17050
1-1/4	10	*	16520	*
* LISTED EPOXY ADHESIVE MAY NOT BE USED WITH NOTED ROD SIZES				

- E. TESTING OF EPOXY DOWELS AT JOINTS BETWEEN NEW AND EXISTING SLABS-ON-GRADE IS NOT REQUIRED.
- F. TESTING OF #3 EPOXY DOWELS AT CURBS AND HOUSEKEEPING PADS IS NOT REQUIRED.
- G. TESTING SHALL OCCUR AFTER EPOXY HAS CURED, AS PER MANUFACTURER'S RECOMMENDATIONS.

- PA-9 POWDER-ACTUATED FASTENERS (PAF):

A. POWDER-ACTUATED FASTENERS SHALL BE ONE OF THE FOLLOWING, UON:

HILTI X-U (ICC-ES REPORT ESR-2269)

SIMPSON POWER-DRIVEN FASTENERS (ICC-ES REPORT ESR-2138)

B. PROVIDE 0.08" THICK x 1.1" SQUARE OR 1.425" ROUND WASHERS FOR ALL POWDER-ACTUATED FASTENERS.

C. FASTENER DIAMETER AND EMBEDMENT SHALL BE AS SPECIFICALLY DETAILED ELSEWHERE IN THE DRAWINGS.

D. TESTING OF POWDER-ACTUATED FASTENERS IS NOT REQUIRED.

All designs, ideas, arrangements and plans indicated by these drawings are the property and copyright of the Architect and shall neither be used on any other work nor be disclosed to any other person for any use whatsoever without written permission.

Koning Eizenberg Architecture and/or its principals and employees waives any and all liability or responsibility for problems that may occur when these plans, drawings, specifications, and/or designs are followed without the professional's guidance with ambiguities, or conflicts which are alleged.

3	07/16/12		BULLETIN 1
	09/20/12		PLAN CHECK 2
	05/07/12		PLAN CHECK 1
NO.	DATE	BY	DESCRIPTION

REVISIONS

ISSUE

SHEET NO.

WD WOOD

WD-1	ALL FRAMING LUMBER SHALL BE DOUGLAS FIR, UON. GRADE SHALL BE AS FOLLOWS: JOIST AND RAFTERS: NO. 1 POST, BEAMS, HEADERS: NO. 1 STUDS, PLATES, BLOCKS LIGHT FRAMING AND MISC: NO. 2
WD-2	ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY 6'-0" OR LESS ABOVE GROUND SHALL BE PRESSURE TREATED.
WD-3	LUMBER MOISTURE CONTENT: SEE SPECIFICATIONS
WD-4	REJECTION OF WOOD MEMBERS: THE PROVISION IN DOC PS 20 (AS REFERENCED BY CBC 2303.1.1) WHICH PERMITS 5 PERCENT OF THE MATERIAL TO FALL BELOW GRADE SHALL NOT BE CONSTRUED TO PERMIT BELOW-GRADE MATERIAL TO BE USED AS LOAD-CARRYING MEMBERS WHICH HAVE BEEN DESIGNED FOR SPECIFIED ALLOWABLE STRESSES AND ACCEPTABLE SAFETY FACTORS. MATERIALS WHICH FALL BELOW GRADE SHALL BE REJECTED FOR LOAD-CARRYING USE. WOOD MEMBERS WHICH ARE REQUIRED TO CARRY DESIGN LOADS AND WHICH THE PROJECT ARCHITECT, ENGINEER OR INSPECTOR JUDGE TO BE MISGRADED SHALL BE REINSPECTED BY A QUALIFIED LUMBER GRADING INSPECTOR TO VERIFY THE PROPER GRADING OF THE MATERIAL. WOOD MEMBERS WHICH HAVE PERMISSIBLE GRADE CHARACTERISTICS OR DEFECTS IN SUCH COMBINATION AS TO AFFECT THE SERVICEABILITY OF THE MEMBER SHALL BE REJECTED BY THE PROJECT INSPECTOR WITH THE CONCURRENCE OF THE ARCHITECT OR STRUCTURAL ENGINEER.
WD-5	STRUCTURAL SHEATHING: A. ROOF SHEATHING: 15/32" APA RATED SHEATHING 32/16", EXPOSURE 1, PS1-07, 5 PLY PLYWOOD B. NOT USED C. WALL SHEATHING: 15/32" APA RATED SHEATHING, EXPOSURE 1, PS1-07, 5 PLY PLYWOOD.
WD-6	NOT USED.
WD-7	NOT USED.
WD-8	NOT USED.
WD-9	NOT USED.
WD-10	NOT USED.
WD-11	GLUED-LAMINATED BEAMS: A. 24FV4 FOR SIMPLE SPANS AND 24FV8 FOR CANTILEVERED AND CONTINUOUS BEAMS. B. APPEARANCE: INDUSTRIAL GRADE TYP.; ARCHITECTURAL GRADE IF EXPOSED. C. CAMBER TO RADIUS OF 1600' UON D. ALL GLULAM BEAMS SHALL BE STAMPED WITH AN IDENTIFICATION MARK.
WD-12	NOT USED.
WD-13	FRAMING HARDWARE: AS MANUFACTURED BY SIMPSON CO. OR APPROVED EQUAL SIMPSON DESIGNATIONS USED.
WD-14	NAILS: COMMON WIRE GAGE UON. NAILING TO CONFORM TO CBC TABLE 2304.9.1, UON.
WD-15	BOLTS: ASTM A307. ANCHOR RODS = ASTM F1554, FY = 36 KSI.
WD-16	PROVIDE LATERAL SUPPORT FOR BEAMS, JOISTS AND RAFTERS PER CBC 2308.8.5.
WD-17	NOT USED.
WD-18	NAILS, BOLTS AND SCREWS FOR PRESSURE PRESERVATIVE TREATED AND FIRE RETARDANT TREATED WOOD SHALL BE HOT-DIPPED ZINC COATED GALVANIZED.

SI SPECIAL INSPECTIONS

- SI-1 ALL TESTS AND INSPECTIONS SHALL BE PERFORMED BY A SPECIAL INSPECTOR PER CBC SECTIONS 1704, 1707, AND 1708. THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER, BUT NOT BY THE CONTRACTOR OR ANY OTHER PERSON RESPONSIBLE FOR THE WORK.
- SI-2 THE SPECIAL INSPECTOR SHALL BE A QUALIFIED (LICENSED) PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- SI-3 CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING INSPECTOR AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER CBC SECTION 1709.
- SI-4 PER THE 2010 CBC, THE FOLLOWING ITEMS SHALL BE TESTED AND INSPECTED BY A DEPUTY INSPECTOR:
A. DIAPHRAGM AND SHEAR WALL NAILING
B. TABLES AS FOLLOWS:

INSPECTION TASK	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	ACI 530/ASCE 5/TMS 402 ^a	ACI 530/ASCE 6/TMS 602 ^a
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: a. PROPORTIONS OF SITE PREPARED MORTAR. b. CONSTRUCTION OF MORTAR JOINTS. c. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS AND ANCHORAGES. d. PRESTRESSING TECHNIQUE e. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	—	X	—	—	ART. 2.6A
2. THE INSPECTION PROGRAM SHALL VERIFY: a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS FRAMES OR OTHER CONSTRUCTION. c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT d. WELDING OF REINFORCEMENT BARS. e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F) f. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE.	—	X	—	SEC. 1.2.2(e), 2.1.4, 3.1.6	ART. 3.3G
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE: a. GROUT SPACE IS CLEAN b. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES. c. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. d. CONSTRUCTION OF MORTAR JOINTS	—	X	—	—	ART. 3.2D
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS: a. GROUTING OF PRESTRESSING BONDED TENDONS. 5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISIMS SHALL BE OBSERVED	X	—	—	—	ART. 3.5
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	—	X	—	—	ART. 1.5

TABLE 1704.7
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	—	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	—	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS	—	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	—
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	—	X

TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS: a. IDENTIFICATION MARKING TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	—	X	AISC 360, SECTION A3.3 AND APPLICABLE ASTM MATERIAL STANDARDS	—
2. INSPECTION OF HIGH-STRENGTH BOLTING: a. SNUG-TIGHT JOINTS b. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCH-MARKING TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION c. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCH-MARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION	—	X	AISC 360, SECTION M2.5	1704.3.3
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK: a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS c. MANUFACTURER'S CERTIFIED TEST REPORTS	—	X	AISC 360, SECTION M5.5 APPLICABLE ASTM MATERIAL STANDARDS	—
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	—	X	AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS	—
5. INSPECTION OF WELDING: a. STRUCTURAL STEEL AND COLD FORMED STEEL DECK: 1) COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS. 2) MULTIPASS FILLET WELDS 3) SINGLE-PASS FILLET WELDS > 5/16" 4) SINGLE-PASS FILLET WELDS ≤ 5/16" 5) FLOOR AND ROOF DECK WELDS b. REINFORCING STEEL: 1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. 3) SHEAR REINFORCEMENT. 4) OTHER REINFORCING STEEL.	X	—	AWS D1.1	1704.3.1
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE: a. DETAILS SUCH AS BRACING AND STIFFENING. b. MEMBER LOCATIONS c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	—	X	AWS D1.4 ACI 318: SECTION 3.5.2	—

FOR SI: 1 INCH = 25.4 mm.
A. WHERE APPLICABLE, SEE ALSO SECTION 1707.1, SPECIAL INSPECTION FOR SEISMIC RESISTANCE

TABLE 1704.4
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT	—	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL, WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B	—	—	AWS D1.4 ACI 318: 3.5.2	—
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	X	—	ACI 318: 8.1.3, 21.2.8	1911.5 1912.1
4. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE	—	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1912.1
5. VERIFYING USE OF REQUIRED DESIGN MIX	—	X	ACI 318: CH. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	—	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	—	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
8. INSPECTION OF MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	—	X	ACI 318: 5.11-5.13	1913.9
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	—	ACI 318: 18.20 ACI 318: 18.18.4	—
10. ERECTION OF PRECAST CONCRETE MEMBERS.	—	X	ACI 318: CH. 16	—
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	—	X	ACI 318: 6.2	—
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	—	X	ACI 318: 6.1.1	—

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

KoningEizenberg Architecture

1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.

1001

ARCHITECT

All designs, ideas, arrangements and plans indicated by these drawings are the property and copyright of the Architect and shall neither be used on any other work nor be disclosed to any other person for any use whatsoever without written permission.

Koning Eizenberg Architecture and/or its principals and employees waive any and all liability or responsibility for problems that may occur when these plans, drawings, specifications, and/or designs are followed without the professional's guidance with ambiguities, or conflicts which are alleged.

Thornton Tomasetti

Thornton Tomasetti, Inc.
6080 Center Drive, Suite 260
Los Angeles CA 90045-9204
T 310.665.0010 F 310.665.0101

CONSULTANT

City of Santa Monica
Architecture Services

1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX: (310) 399-1541
architecture@smgov.net

APPROVED BY:

1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX: (310) 399-1541
architecture@smgov.net

CITY CLIENT

REVISIONS

ISSUE

100% CONSTRUCTION DOCUMENTS

DATE
07/16/2012

DRAWING NO.
6693

SHEET TITLE
GENERAL NOTES

SHEET NO.
S0.03

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ABV	ABOVE	LLV	LONG LEG VERTICAL
ADDL	ADDITIONAL	LONG	LONGITUDINAL
ADJ	ADJACENT	LP	LOW POINT
ALT	ALTERNATE	LW	LIGHTWEIGHT
APPRX	APPROXIMATE	LWC	LIGHTWEIGHT CONCRETE
ARCH	ARCHITECT OR ARCHITECTURAL	M	MOMENT
B/	BOTTOM OF	MATL	MATERIAL
B/B	BACK TO BACK	MAX	MAXIMUM
BLDG	BUILDING	MC	MOMENT CONNECTION(S)
BLK	BLOCK	MECH	MECHANICAL
BLKG	BLOCKING	MEP	MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION
BLW	BELOW		
BM	BEAM	MEZZ	MEZZANINE
BOT	BOTTOM	MFR	MANUFACTURER
BRDG	BRIDGING	MID	MIDDLE
BRG	BEARING	MIN	MINIMUM
BTWN	BETWEEN	MISC	MISCELLANEOUS
C/C	CENTER TO CENTER	NIC	NOT IN CONTRACT
CIP	CAST-IN-PLACE	NO	NUMBER
CL	CENTER LINE	NOM	NOMINAL
CLR	CLEAR OR CLEARANCE	NS	NEAR SIDE
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
COL	COLUMN	NW	NORMAL WEIGHT
COMP	COMPRESSION	NWC	NORMALWEIGHT CONCRETE
CONC	CONCRETE	OC	ON CENTER
CONN	CONNECTION(S)	OD	OUTSIDE DIAMETER
CONST	CONSTRUCTION	OF	OUTSIDE FACE
CONT	CONTINUOUS	OH	OPPOSITE HAND
db	REINFORCING BAR DIAMETER	OPNG(S)	OPENING(S)
DBL	DOUBLE	OPP	OPPOSITE
DEG	DEGREE(S)	OSL	OUTSTANDING LEG
DET	DETAIL	P/T	POST-TENSIONED
DIA	DIAMETER	PC	PIECE
DIAG	DIAGONAL	PCY	POUNDS PER CUBIC YARD
DIM(S)	DIMENSION(S)	PERP	PERPENDICULAR
DL	DEAD LOAD	PG	PLATE GIRDER
DWG(S)	DRAWING(S)	PL	PLATE
DWL	DOWEL(S)	PRC	PRECAST
EA	EACH	PRLl	PARALLEL
ECC	ECCENTRICITY	PSF	POUNDS PER SQUARE FOOT
EF	EACH FACE	PSI	POUNDS PER SQUARE INCH
EL	ELEVATION	PT	POINT
ELEC	ELECTRICAL	RAD	RADIUS
ENGR	ENGINEER	REF	REFERENCE
EOS	EDGE OF SLAB	REINF	REINFORCE(D) (ING) OR (MENT)
EQ	EQUAL	REQD	REQUIRED
EQUIP	EQUIPMENT	SCHED	SCHEDULE(D)
EW	EACH WAY	SDL	SUPERIMPOSED DEAD LOAD
EXP	EXPANSION	SECT	SECTION
EXST	EXISTING	SER	STRUCTURAL ENGINEER OF RECORD
EXT	EXTERIOR	SF	SQUARE FOOT (FEET)
F/F	FACE TO FACE	SHT	SHEET
FIN	FINISHED	SIM	SIMILAR
FLR	FLOOR	SLRS	SEISMIC LOAD RESISTING SYSTEM
FND	FOUNDATION	SOG	SLAB ON GRADE
FP	FIREPROOF(ING)	SP	SPACE
FS	FAR SIDE	SPEC(S)	SPECIFICATION(S)
FTG	FOOTING	STD	STANDARD
GA	GAGE, GAUGE	STL	STEEL
GALV	GALVANIZED	STR	STRUCTURE
GB	GRADE BEAM	STRCTL	STRUCTURAL
GEN	GENERAL	SYM	SYMMETRICAL
GLB	GLU LAM BEAM	T	TENSION
GR	GRADE	T&B	TOP AND BOTTOM
HK	HOOK	T/	TOP OF
HORIZ	HORIZONTAL	TEMP	TEMPERATURE OR TEMPORARY
HP	HIGH POINT	TEN	TENSION
HT	HEIGHT	THK	THICK OR THICKNESS
ID	INSIDE DIAMETER	THRD	THREAD
IF	INSIDE FACE	TYP	TYPICAL
INFO	INFORMATION	UON	UNLESS OTHERWISE NOTED
INT	INTERIOR	V	SHEAR
INTRM	INTERMEDIATE	VERT	VERTICAL
JST(S)	JOIST(S)	VIF	VERIFY IN FIELD
JT	JOINT	W/	WITH
K	KIPS (1,000 POUNDS)	W/O	WITHOUT
KLF	KIP PER LINEAR FOOT	WD	WOOD
KSF	KIP PER SQUARE FOOT	WP	WORK POINT
LL	LIVE LOAD	WPFG	WATERPROOFING
LLH	LONG LEG HORIZONTAL	WS	WATERSTOP
		WWR	WELDED WIRE REINFORCEMENT

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

KoningEizenberg Architecture
1454 25th St. Santa Monica, CA 90404

310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.

1001

ARCHITECT

All designs, ideas, arrangements and plans indicated by these drawings are the property and copyright of the Architect and shall neither be used on any other work nor be disclosed to any other person for any use whatsoever without written permission.

Koning Elzenberg Architecture and/or its principals and employees waives any and all liability or responsibility for problems that may occur when these plans, drawings, specifications, and/or designs are followed without the professional's guidance with ambiguities, or conflicts which are alleged.



Thornton Tomasetti

Thornton Tomasetti, Inc.
6080 Center Drive, Suite 260
Los Angeles CA 90045-9204
T 310.665.0010 F 310.665.0101

CONSULTANT



1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX. (310) 399-1541
architecture@smgov.net

DATE : _____ 20__

SUBMITTED BY :

APPROVED BY :
Miriam Mulder,
Architecture Services Manager


CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

CITY CLIENT

	07/16/12	BULLETIN 1	
	06/20/12	PLAN CHECK 2	
	05/07/12	PLAN CHECK 1	
NO.	DATE	BY	DESCRIPTION

REVISIONS

ISSUE

100% CONSTRUCTION DOCUMENTS

DATE _____

07/16/2012

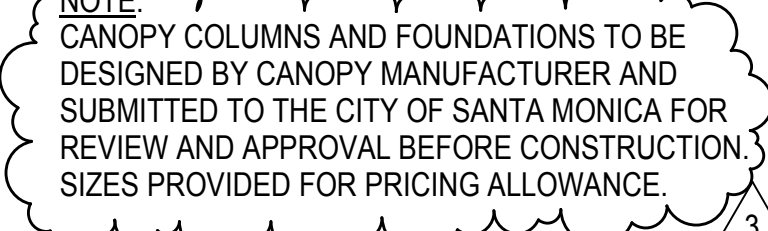
6693

SHEET TITLE
ABBREVIATIONS

SHEET TITLE
ABBREVIATIONS

SHEET NO.

S0.04



① $1/8'' = 1'-0''$

- 3

- LEGEND:

- SHEET REFERENCE:

ISSUE

DATE
07/16/2012

DRAWING NO. **6693**

SHEET TITLE
**FOUNDATION &
GROUND FLOOR
PLAN**

\$1.00



Thornton Tomasetti
Thornton Tomasetti, Inc.
6080 Center Drive, Suite 260
Los Angeles CA 90045-9204
T 310.665.0010 F 310.665.0101

CONSULTANT

 City of
Santa Monica
Architecture Services

1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX. (310) 399-1541
architecture@smgov.net

DATE : _____ 20____

SUBMITTED BY : _____

DATE: _____ 20____

APPROVED BY:
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : 20

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

CITY CLIENT

[illegible]

ISSUE

100% CONSTRUCTION DOCUMENTS

DATE
07/16/2012

DRAWING NO. **6693**

SHEET TITLE
**FOUNDATION &
GROUND FLOOR
PLAN**

\$1.00



mton Tomasetti, Inc.
 80 Center Drive, Suite 260
 Angeles CA 90045-9204
 310.665.0010 F 310.665.0101



City of
Santa Monica
Architecture Services

1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX. (310) 399-1541
architecture@smgov.net

DATE : _____ 20 ____

SUBMITTED BY : _____

DATE: _____ 20____

APPROVED BY:
Miriam Mulder,
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY : DATE : _____ 20 ____

REVIEWED BY: DATE: _____ 20__

REVIEWED BY: DATE: 20

ITY CLIENT

3	07/16/12	BULLETIN 1	
	08/20/12	PLAN CHECK 2	
	05/07/12	PLAN CHECK 1	
	02/21/12	ADDENDUM 2	
NO.	DATE	BY	DESCRIPTION

REVISIONS

SUE

100% CONSTRUCTION DOCUMENT

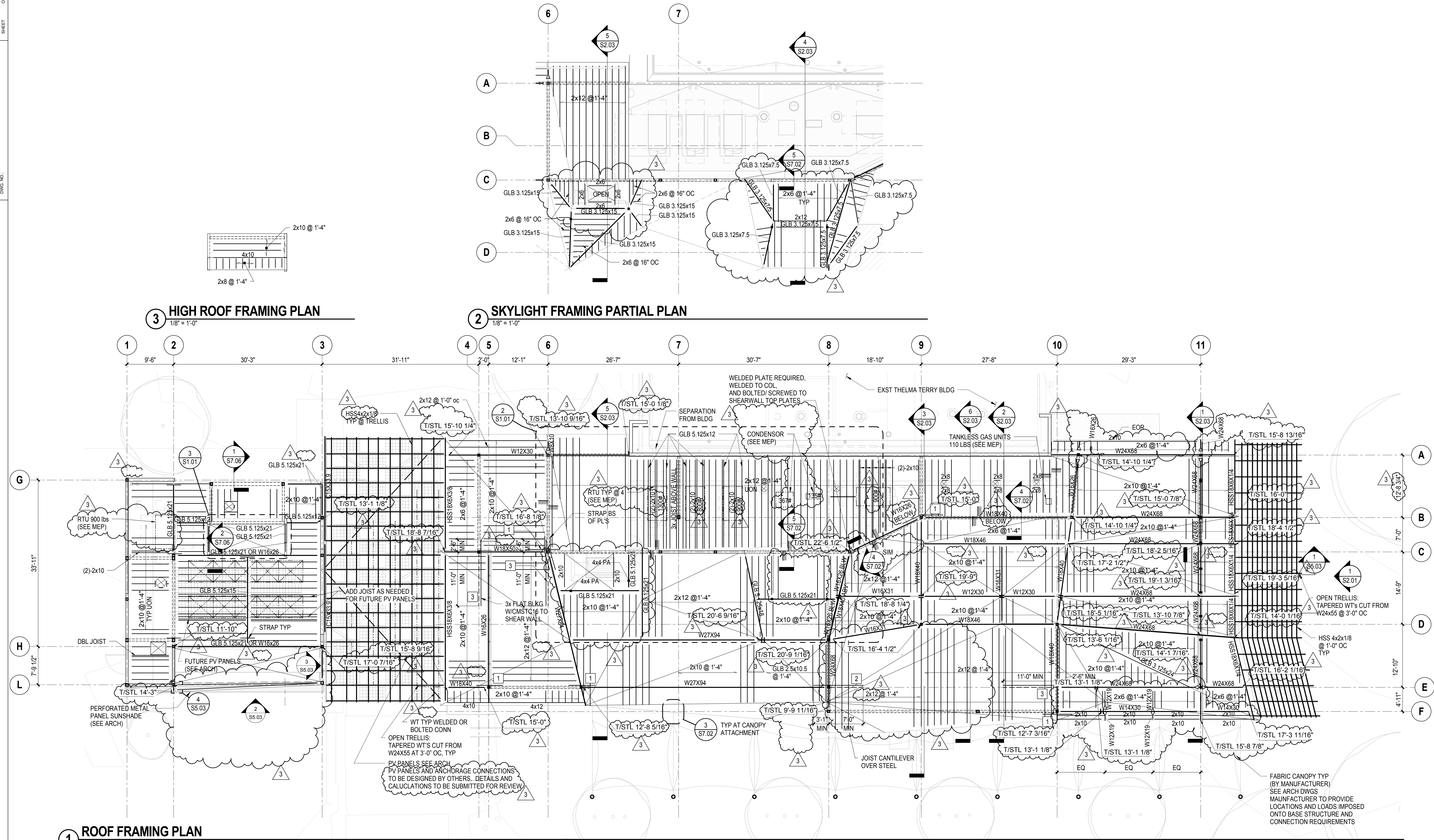
7/16/2012

6693

ROOF FRAMING PLAN

SHEET NO.

S1.01



PLAN NOTES:

1. T/ROOF ELEVATION VARIES SEE PLAN, SEE ARCH DWGS FOR ADDITIONAL ELEVATION INFO NOT SHOWN.

2. T/ROOF ELEVATION = T/ROOF 1/2" PLYWOOD SHEATHING.
ELEVATIONS INDICATE HEIGHT ABOVE FINISH FLOOR.
FINISH FLOOR DATUM = +164.0'.

3. STRUCTURAL LOAD-BEARING STUD WALLS SUPPORTING THE ROOF ARE SHOWN THUS === ON PLAN. SEE ARCH DRAWINGS FOR NON-LOAD BEARING PARTITIONS.

4. VERIFY ALL DIMENSIONS SHOWN AND NOT SHOWN WITH ARCH DRAWINGS

5. FOR ROOFTOP EQUIPMENT AND ROOF OPENINGS, SEE ARCH AND MEP DRAWINGS. CONTRACTOR TO COORDINATE FINAL LOCATION OF EQUIPMENT SUPPORT BEAMS WITH EQUIPMENT REQUIREMENTS.

6. WHERE RIPPERS ARE ATTACHED TO TOP OF ROOF JOISTS (I.E. TO OBTAIN SLOPE FOR DRAINAGE), THE RIPPERS SHALL BE NAILED TO THE JOIST WITH 10d AT SPACING REQUIRED FOR DIAPHRAGM SHEAR. WHEN THE RIPPERS BECOME MORE THAN 1 1/2" DEEP, SIDE PLATES SHALL BE NAILED TO JOISTS AT SPACING REQUIRED TO TRANSFER DIAPHRAGM SHEAR.





7. MARK 1, ETC DESIGNATE SIMPSON STRONG-TIE STRAP CONNECTION.

PLAN MARK	STRAP
1	MST48
2	CS14
3	CMSTC16

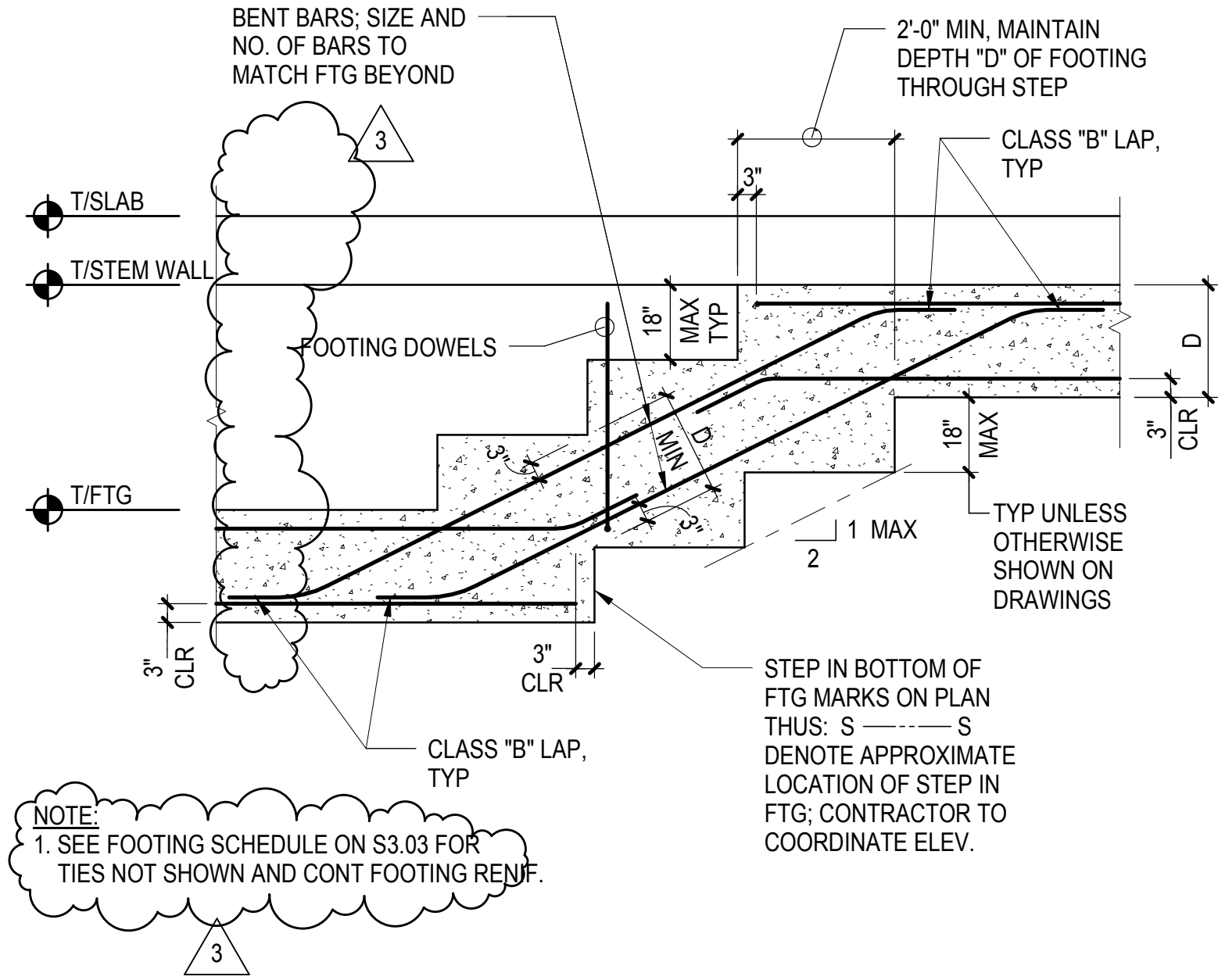
SHEET REFERENCE:

- | | |
|-----------------------------|--------|
| 1. GENERAL NOTES | \$0.0X |
| 2. ELEVATIONS & SECTIONS | \$2.XX |
| 3. TYPICAL CONCRETE DETAILS | \$3.XX |
| 4. TYPICAL STEEL DETAILS | \$5.XX |
| 5. TYPICAL CMU DETAILS | \$6.XX |
| 6. TYPICAL WOOD DETAILS | \$7.XX |

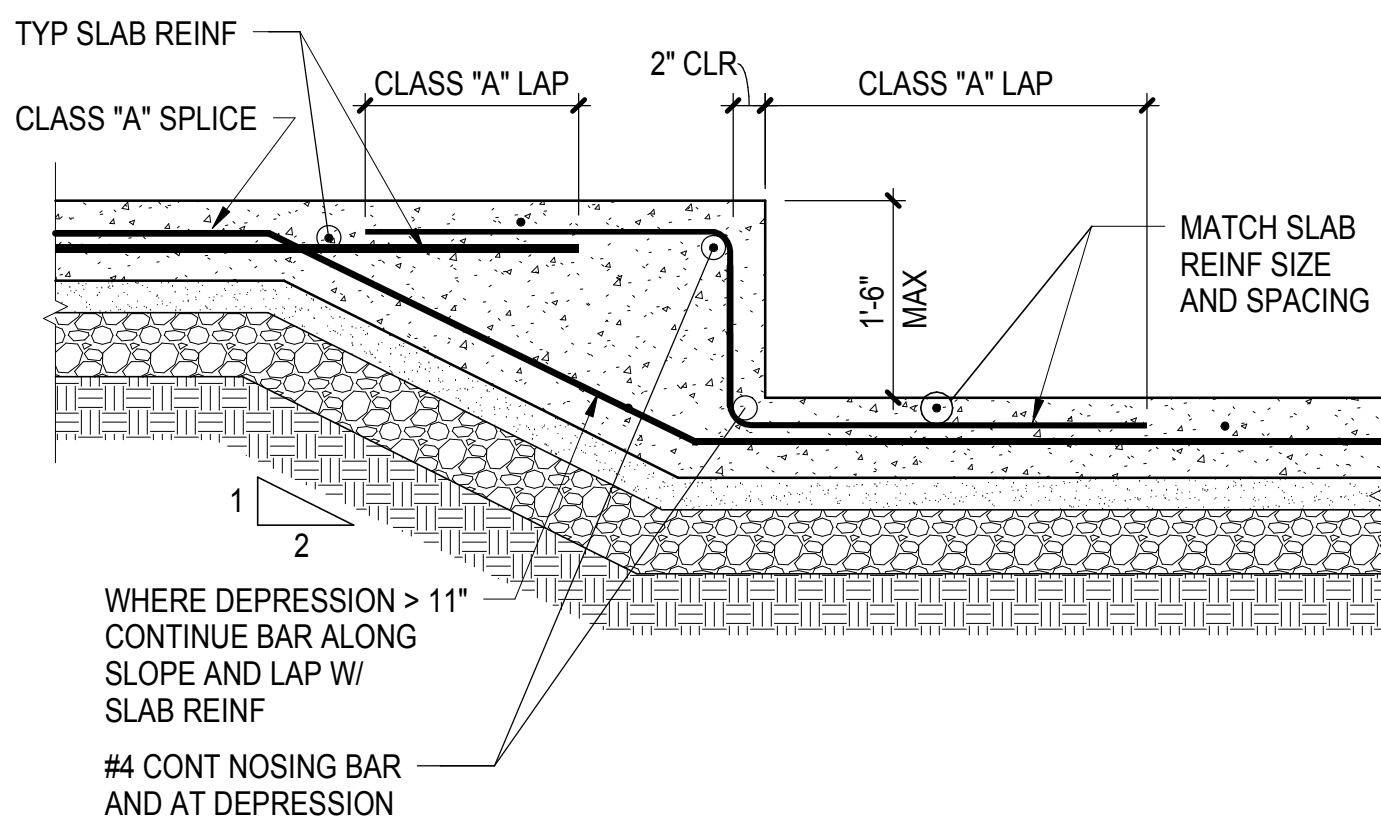
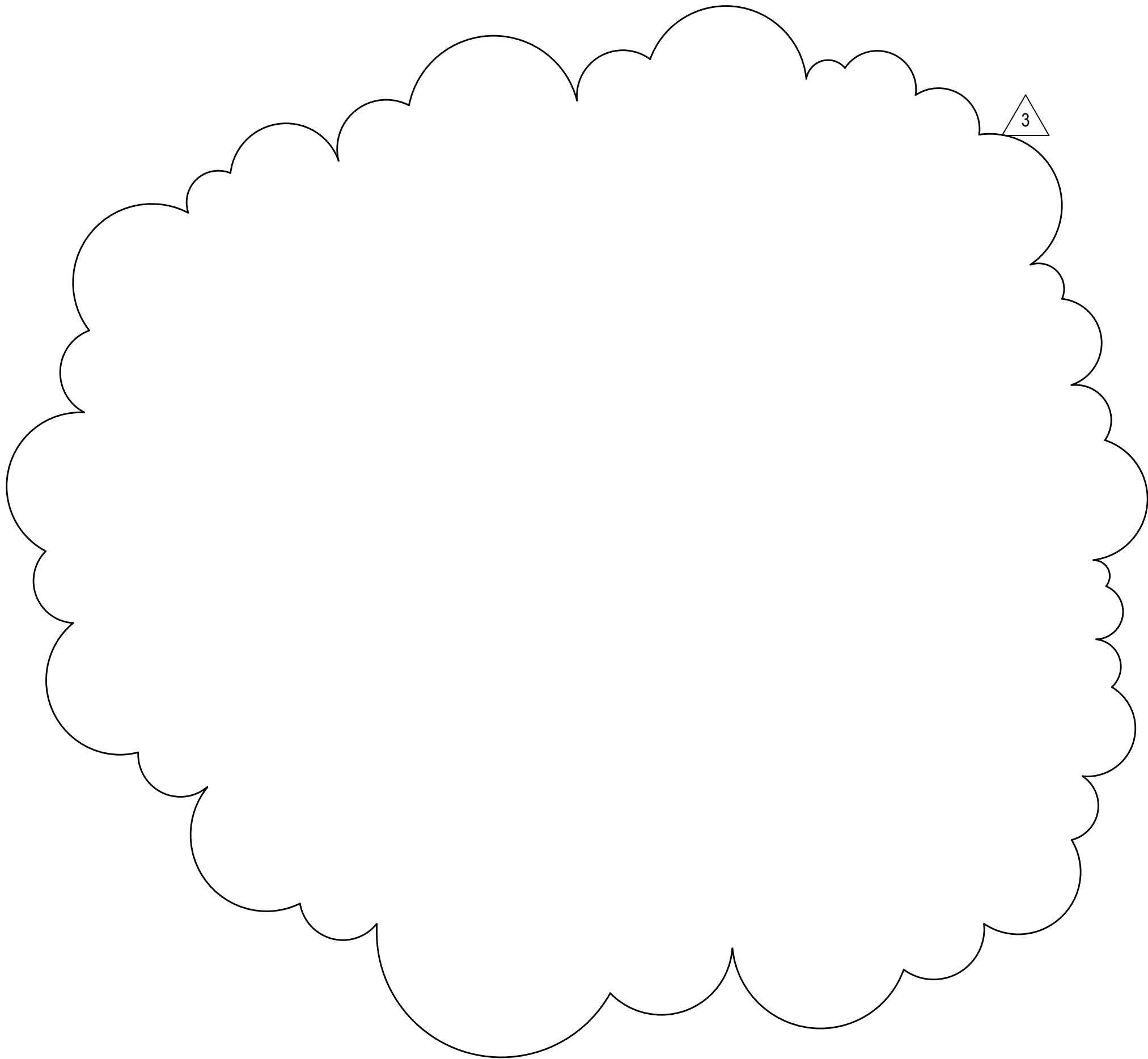
LEGEND:

1.  INDICATES TOP OF SHEATHING ELEVATION
2.  (NOT USED)
3.  INDICATES TOP STEEL SPLICE
4. GLB INDICATES GLULAM BEAMS
5.  INDICATES GRAVITY MOMENT CONNECTION

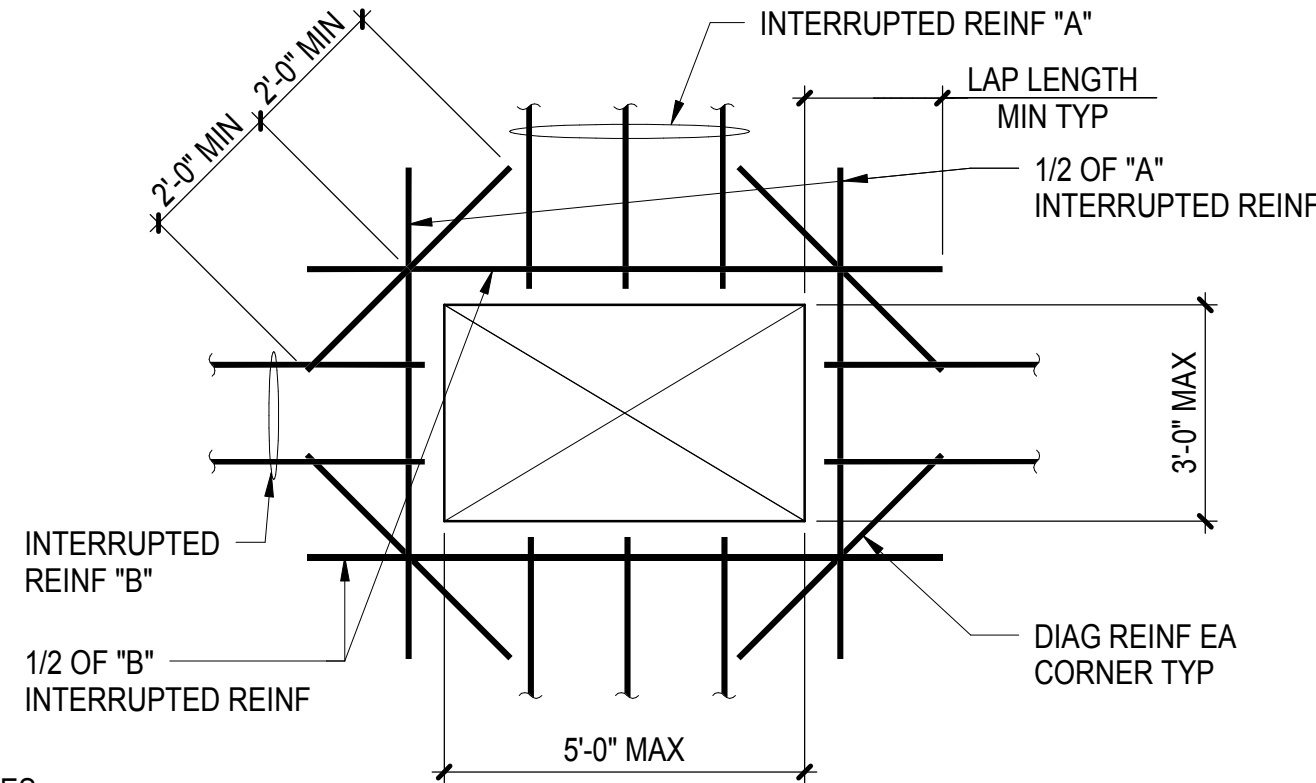




6 STEPS IN CONTINUOUS FOOTING
1/2" = 1'-0"



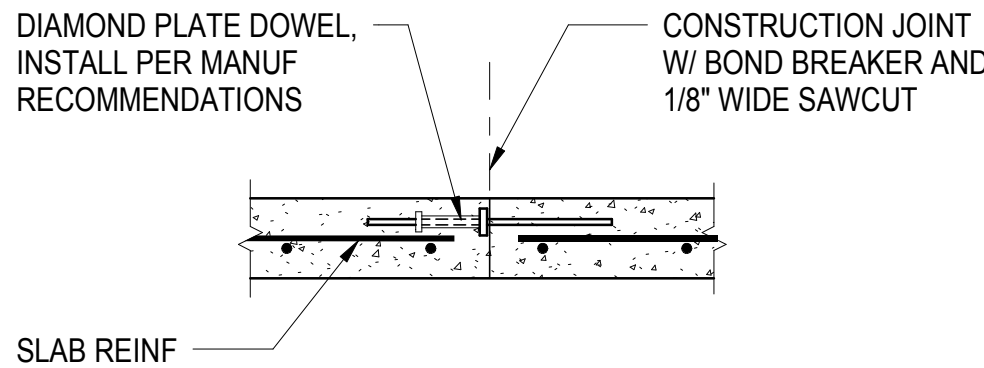
4 SLAB-ON-GRADE DEPRESSION
1" = 1'-0"



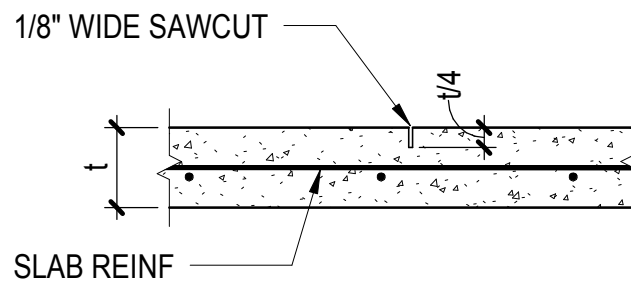
- NOTES:
1. OPENING SIZE, LOCATION, AND REINFORCING SHALL BE SUBMITTED AS PART OF THE REINFORCING SHOP DRAWING SUBMITTAL FOR REVIEW AND APPROVAL.
 2. AT EACH SIDE OF THE OPENING, ADD NOT LESS THAN ONE-HALF THE AREA OF REINFORCING THAT IS INTERRUPTED BY THE OPENING. WHERE THE BAR LENGTH PAST THE OPENING IS INTERRUPTED BY AN EDGE OF SLAB, PROVIDE A STANDARD HOOK AT THE DISCONTINUOUS END.
 3. WHERE THE DIAGONAL LENGTH IS INTERRUPTED BY AN EDGE OF SLAB, PROVIDE A STANDARD HOOK.
 4. NOT REQUIRED AT COLUMN LOCATIONS.

SCHEDULE OF DIAGONAL REINFORCING		
SLAB THICKNESS	DIAGONAL REINFEA CORNER	COMMENT
4" TO 5"	1-#4	CENTERED IN SLAB
>5" TO 8"	1-#5	CENTERED IN SLAB
>8" TO 12"	1-#5	T&B IN SLAB

3 OPENING IN SLAB-ON-GRADE
1" = 1'-0"



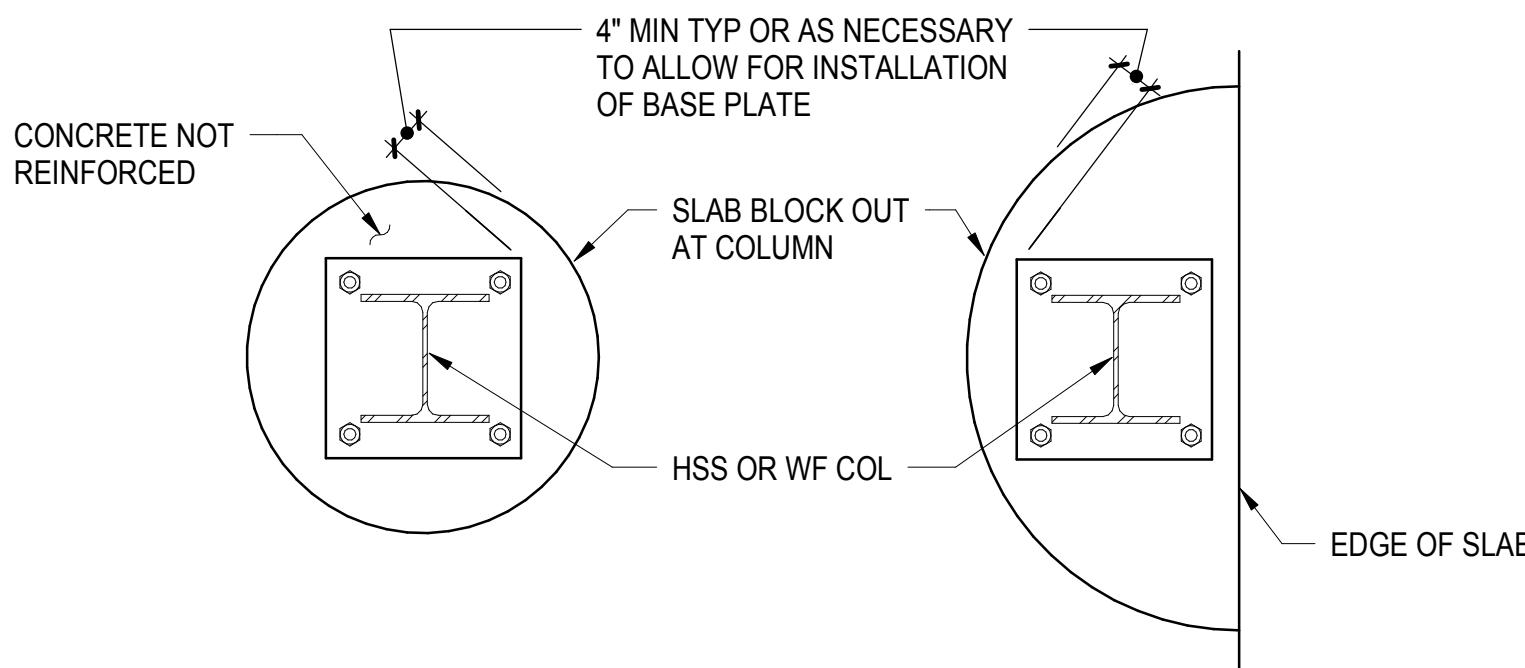
CONSTRUCTION JOINT, SLAB-ON-GRADE ≥ 5" THICK



CONTROL JOINT

EITHER CONTROL OR CONSTRUCTION JOINTS SHALL BE LOCATED NO FURTHER THAN 36 x SLAB THICKNESS UNLESS A SMALLER SPACING IS INDICATED ON DRAWINGS. ASPECT RATIO OF ENCLOSED AREA SHALL NOT EXCEED 1.5. SUBMIT LAYOUT FOR APPROVAL. LOCATE JOINTS ON COLUMN LINES AND UNDER PARTITIONS WHEREVER POSSIBLE. MAXIMUM SLAB AREA CONTROLLED BY JOINTING IS 400 SQ FT. SAWCUTS SHALL BE MADE AS SOON AS POSSIBLE AFTER SLAB FINISHING AS MAY SAFELY BE DONE WITHOUT DISLOGGING AGGREGATE OR BREAKING EDGES. FILL SAWCUT JOINT WITH SEALANT AFTER SLAB HAS CURED.

JOINT LAYOUT



PLAN - SLAB BLOCKOUT AT COLUMN

PLAN - SLAB BLOCKOUT AT EDGE COLUMN

1 SLAB-ON-GRADE CONSTRUCTION AND CONTROL JOINTS
1" = 1'-0"

PROJECT

KoningEizenberg Architecture
1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com

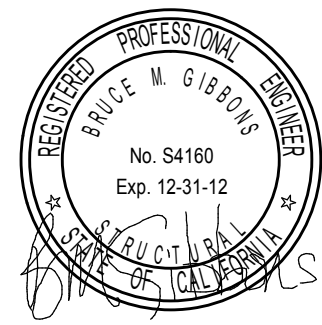
ARCHITECT'S PROJECT NO.

1001

ARCHITECT

All designs, ideas, arrangements and plans indicated by these drawings are the property and copyright of the Architect and shall neither be used on any other work nor be disclosed to any other person for any use whatsoever without written permission.

Koning Eizenberg Architecture and/or its principals and employees waives any and all liability or responsibility for problems that may occur when these plans, drawings, specifications, and/or designs are followed without the professional's guidance with ambiguities, or conflicts which are alleged.



Thornton Tomasetti, Inc.

6080 Center Drive, Suite 260
Los Angeles CA 90045-9204
T 310.665.0010 F 310.665.0101

CONSULTANT



1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL. (310) 458-2205
FAX: (310) 399-1541
architecture@smgov.net

SUBMITTED BY: DATE: 20

APPROVED BY: Miriam Mulder, Architecture Services Manager
CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
3	07/16/12		BULLETIN 1
	09/20/12		PLAN CHECK 2
	05/07/12		PLAN CHECK 1

REVISIONS

ISSUE

100% CONSTRUCTION DOCUMENTS

DATE

07/16/2012

DRAWING NO.

6693

SHEET TITLE

TYPICAL
CONCRETE
DETAILS

SHEET NO.

S3.02

File Path: C:\Users\michal\Documents\Projects\Pico Branch Library\TT-151002-PICO BRANCH LIBRARY-Local.rvt
ON: 7/13/2017, 4:18:42 PM

DWG. NO. SHEET 04

TITLE OF PROJECT:

12 COLUMN FOOTING
1/2" = 1'-0"

SEE TYPICAL STEEL DETAILS FOR BASE PLATE AND ANCHOR ROD INFORMATION

#4 @ 12" OC TYP
4 SIDES OF FOOTING
W/ STD HOOK BOTH ENDS

90 DEG STANDARD HOOK
IF INDICATED IN
FOOTING SCHEDULE

CL
COLUMN & FOOTING

STEEL COLUMN
SEE SCHEDULE

SLAB BLOCK OUT AND
CONCRETE INFILL AFTER
STEEL ERECTION

T/SLAB ON GRADE
EL SEE PLAN

T/FOOTING
EL SEE PLAN

BEARING STRUT
FOR NET ALLOWABLE
BEARING PRESSURE
SEE GENERAL NOTES
(TO BE VERIFIED BY
OWNER'S GEOTECHNICAL
TESTING AGENCY)

H
SEE
SCHEDULE

3" CLR
TYP

2" CLR
TYP

EQ

W OR L
SEE SCHEDULE

COMPACTED FILL

TOP BARS
SEE SCHEDULE
PLACE LONG BARS
ABOVE SHORT
BARS UON

BOTTOM BARS
SEE SCHEDULE
PLACE LONG BARS
BELOW SHORT
BARS UON

CONCRETE WALL

8" CMU WALL

NEW PICO LIBRARY

EXIST THELMA TERRY BLDG
(VIF)

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING
SEE PLAN

FOR FOOTING INFO NOT SHOWN,
SEE 3

NOTES:
1. UNDERPIN (E) FOUNDATIONS OR USE PERMANENT
SHORING BETWEEN NEW AND (E) FOUNDATIONS
TO AVOID IMPOSING SURCHARGE ON FOUNDATION
WALL. REFER TO GEOTECHNICAL REPORT.
2. SHORING/UNDERPINNING DESIGN IS BY CONTRACTOR
AND SHOULD BE STAMPED/SIGNED AND SUBMITTED
TO DESIGN TEAM AND CITY FOR REVIEW/APPROVAL.
3. EXST BLDG FOUNDATION TO BE VERIFIED IN FIELD.
4. SEE DETAIL 6/- FOR ADDL INFO NOT SHOWN.

12 COLUMN FOOTING
1/2" = 1'-0"

ISOLATED FOOTING SCHEDULE

MARK

SIZE

REINFORCEMENT

REMARKS

F1

F2

F3

F4

NOTE:
1. REINFORCEMENT SHALL NOT BE SPLICED WITHOUT WRITTEN AUTHORIZATION OF STRUCTURAL ENGINEER.

11 ISOLATED FOOTING SCHEDULE
1/2" = 1'-0"

FOOTING, WHERE
OCCURS

STD HOOK,
TYP

0" TYP

2" TO FIRST TIE,
OR HORIZONTAL BAR,
TYP

FOOTING LONGITUDINAL
BAR, TYP

PLAN VIEW

2" TO FIRST TIE,
OR HORIZONTAL BAR,
TYP

FOOTING LONGITUDINAL
BAR, TYP

11 ISOLATED FOOTING SCHEDULE
1/2" = 1'-0"

2'-1"

3" CLR

#3 @ 5" OC

#3 @ 10" OC

#3 @ 10" OC

#4 @ 12" HORIZ EA FA
CONTINUOUS

#5 @ 10" VERT
EA FACE

HSS6x3

SEE ARCH FOR
WIRE/PLUG HOLE

T/WALL
SEE ARCH

10" CONC WALL

ROUGHEN SURFACE TO
FULL AMPLITUDE OF 1/4"

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING
SEE PLAN

FOR FOOTING INFO NOT SHOWN,
SEE PLAN 3

7 TYP FOUNDATION SECTION AT EAST GLAZING
1" = 1'-0"

NEW PICO LIBRARY

EXIST THELMA TERRY BLDG
(VIF)

8" CMU WALL

CONCRETE WALL

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING
SEE PLAN

FOR FOOTING INFO NOT SHOWN,
SEE PLAN 3

NOTES:
1. UNDERPIN (E) FOUNDATIONS OR USE PERMANENT
SHORING BETWEEN NEW AND (E) FOUNDATIONS
TO AVOID IMPOSING SURCHARGE ON FOUNDATION
WALL. REFER TO GEOTECHNICAL REPORT.
2. SHORING/UNDERPINNING DESIGN IS BY CONTRACTOR
AND SHOULD BE STAMPED/SIGNED AND SUBMITTED
TO DESIGN TEAM AND CITY FOR REVIEW/APPROVAL.
3. EXST BLDG FOUNDATION TO BE VERIFIED IN FIELD.
4. SEE DETAIL 6/- FOR ADDL INFO NOT SHOWN.

7 TYP FOUNDATION SECTION AT EAST GLAZING
1" = 1'-0"

6 TYP FOUNDATION SECTION AT EXISTING BUILDING
1" = 1'-0"

NEW PICO LIBRARY

EXIST THELMA TERRY BLDG
(VIF)

8" CMU WALL

CONCRETE WALL

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING
SEE PLAN

FOR FOOTING INFO NOT SHOWN,
SEE 3

NOTES:
1. UNDERPIN (E) FOUNDATIONS OR USE PERMANENT
SHORING BETWEEN NEW AND (E) FOUNDATIONS
TO AVOID IMPOSING SURCHARGE ON FOUNDATION
WALL. REFER TO GEOTECHNICAL REPORT.
2. SHORING/UNDERPINNING DESIGN IS BY CONTRACTOR
AND SHOULD BE STAMPED/SIGNED AND SUBMITTED
TO DESIGN TEAM AND CITY FOR REVIEW/APPROVAL.
3. EXST BLDG FOUNDATIONS TO BE VERIFIED IN FIELD.

6 TYP FOUNDATION SECTION AT EXISTING BUILDING
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

STD HOOK

SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

STD HOOK

SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

STD HOOK

SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

STD HOOK

SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

STD HOOK

SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

STD HOOK

SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

STD HOOK

SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

STD HOOK

SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

STD HOOK

SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

STD HOOK

SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

SOG SEE PLAN

GROUND FLOOR
164'-0"

SOG
162'-6"

FOOTING SEE PLAN

CONT FTG BEYOND
SEE PLAN

6" WOOD SHEARWALL

1'-6"

4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

CL CONC WALL = C FTG

STUD WALL

NOTCH WALL
PER ARCH

8"

EQ

#4 @ 9" OC
EA WAY

#4 DOWEL
@ 18" OC

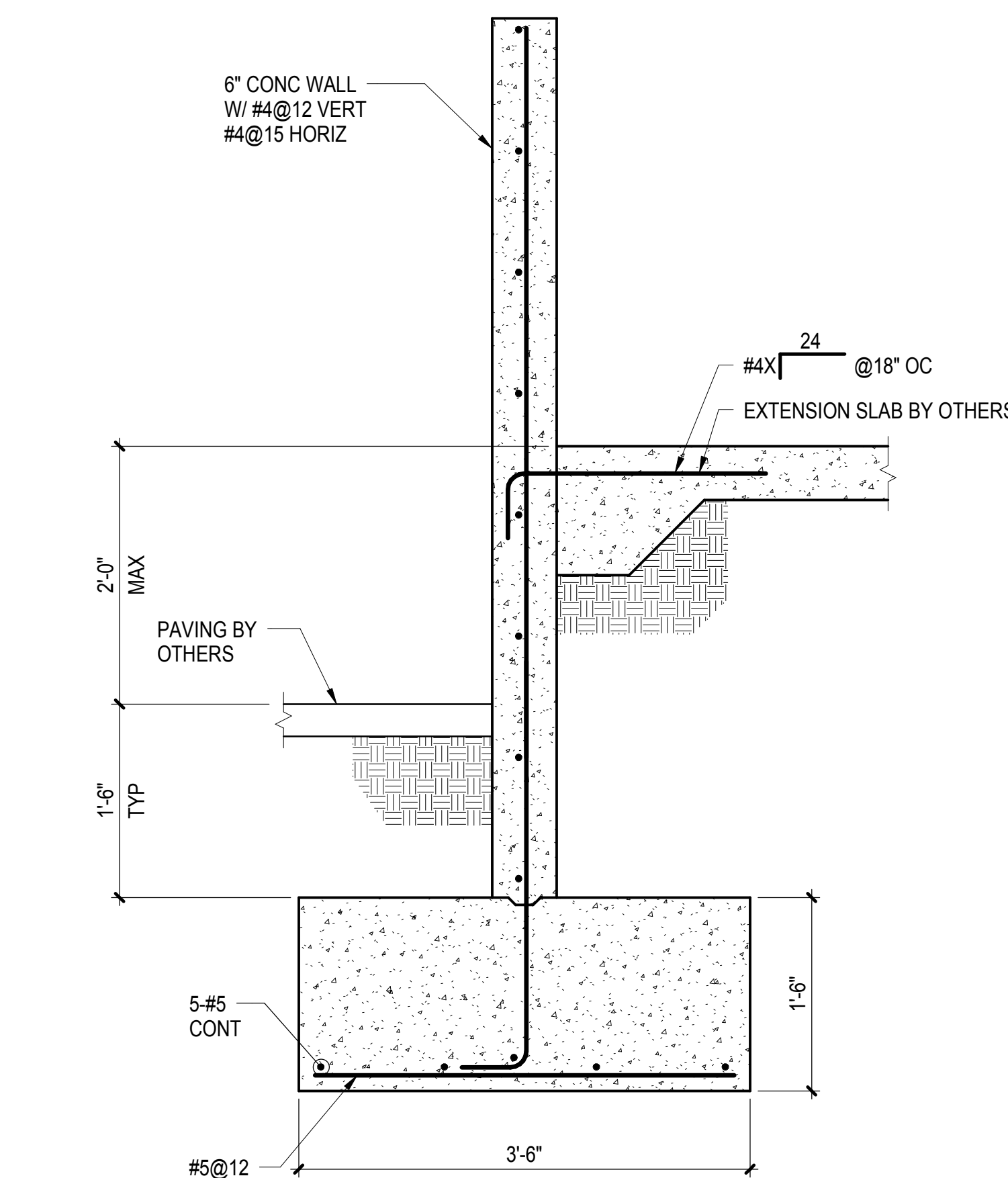
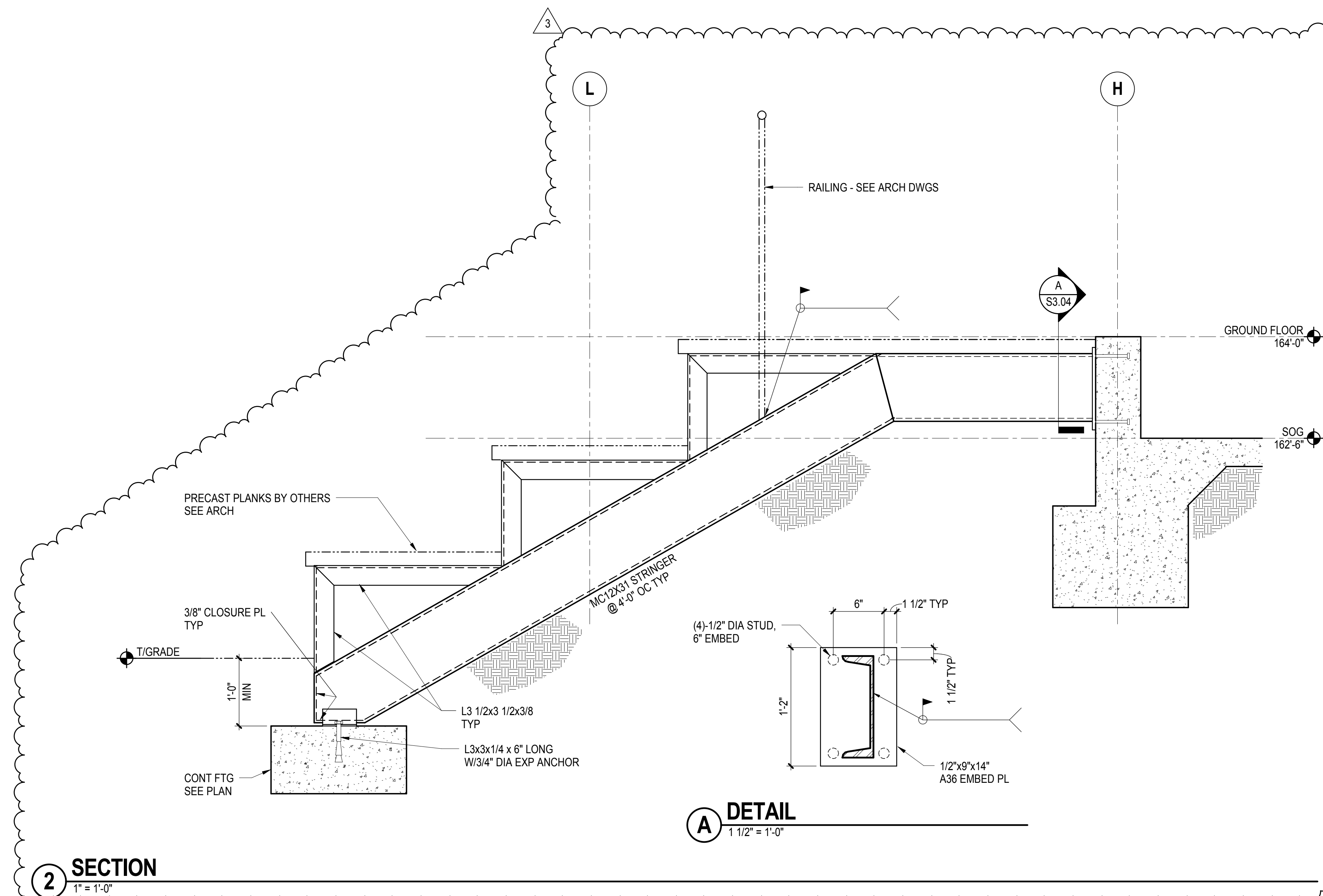
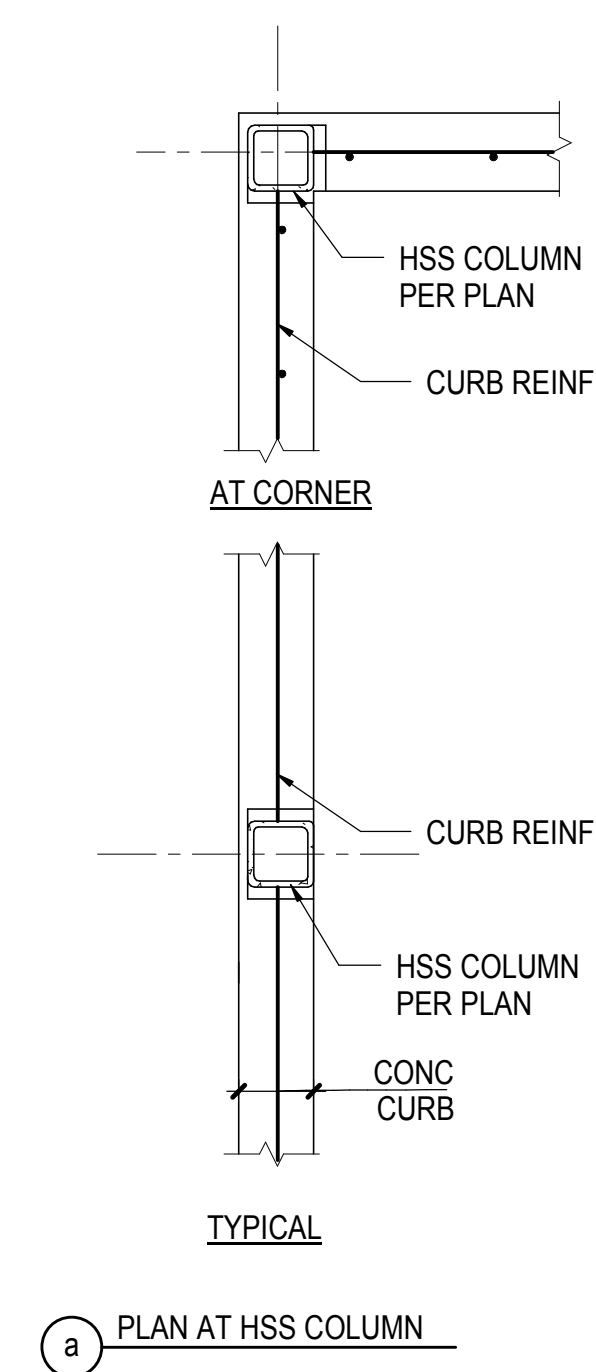
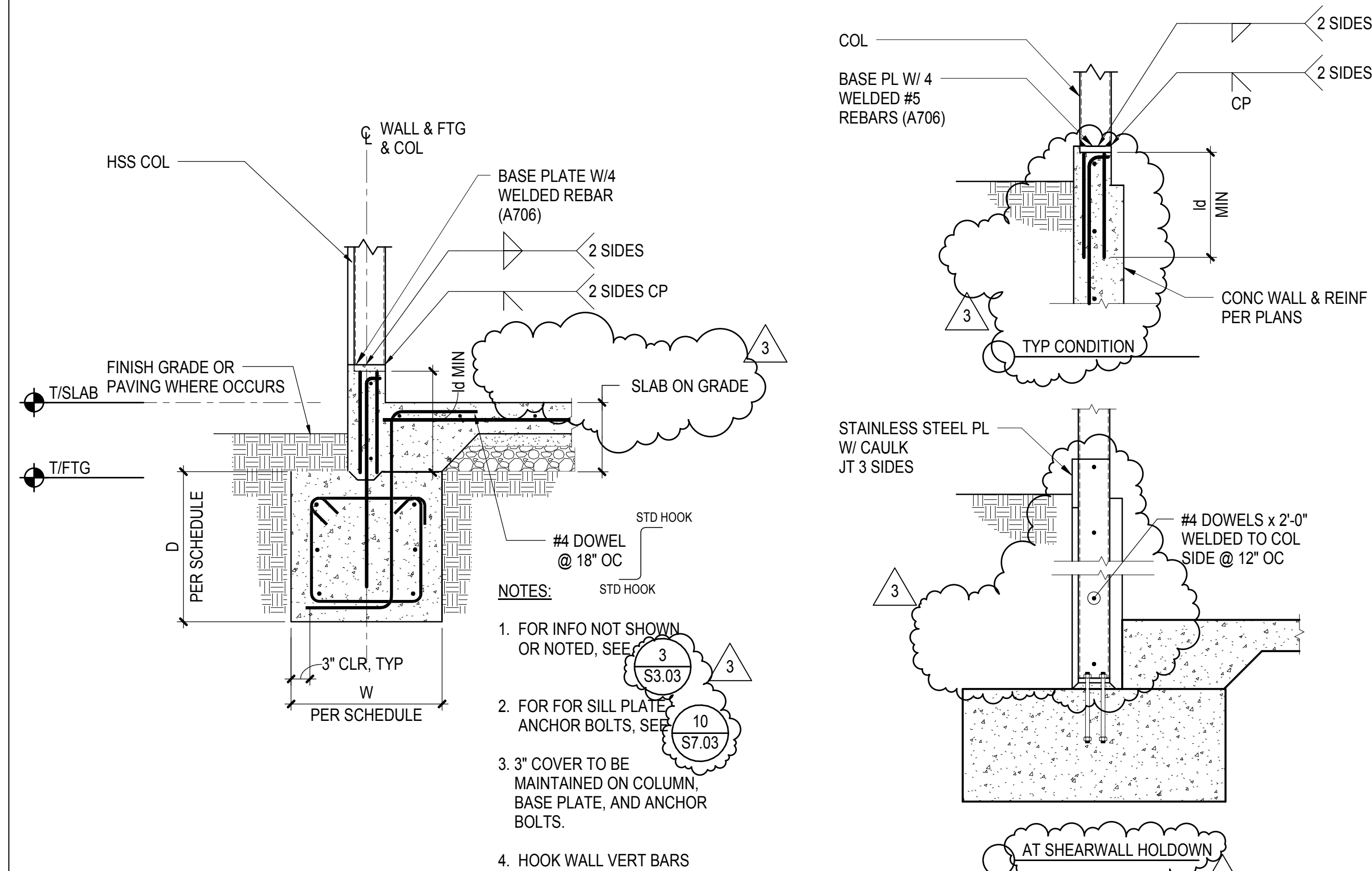
STD HOOK

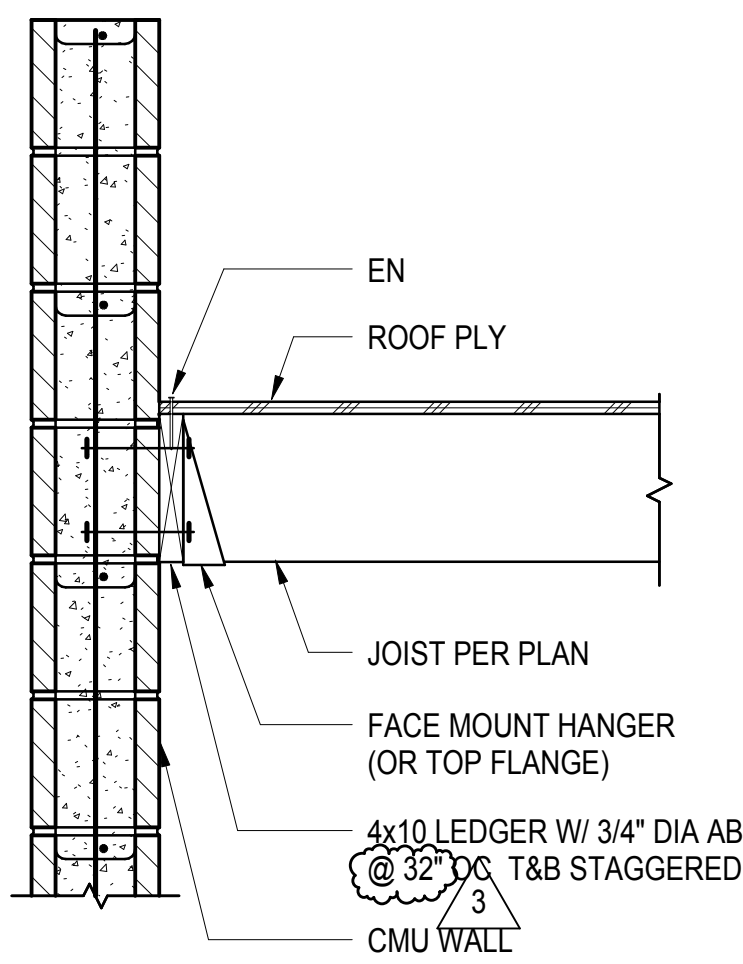
SLAB REINF
PER PLAN

FOR FOOTING INFO NOT
SHOWN, SEE PLAN & 3

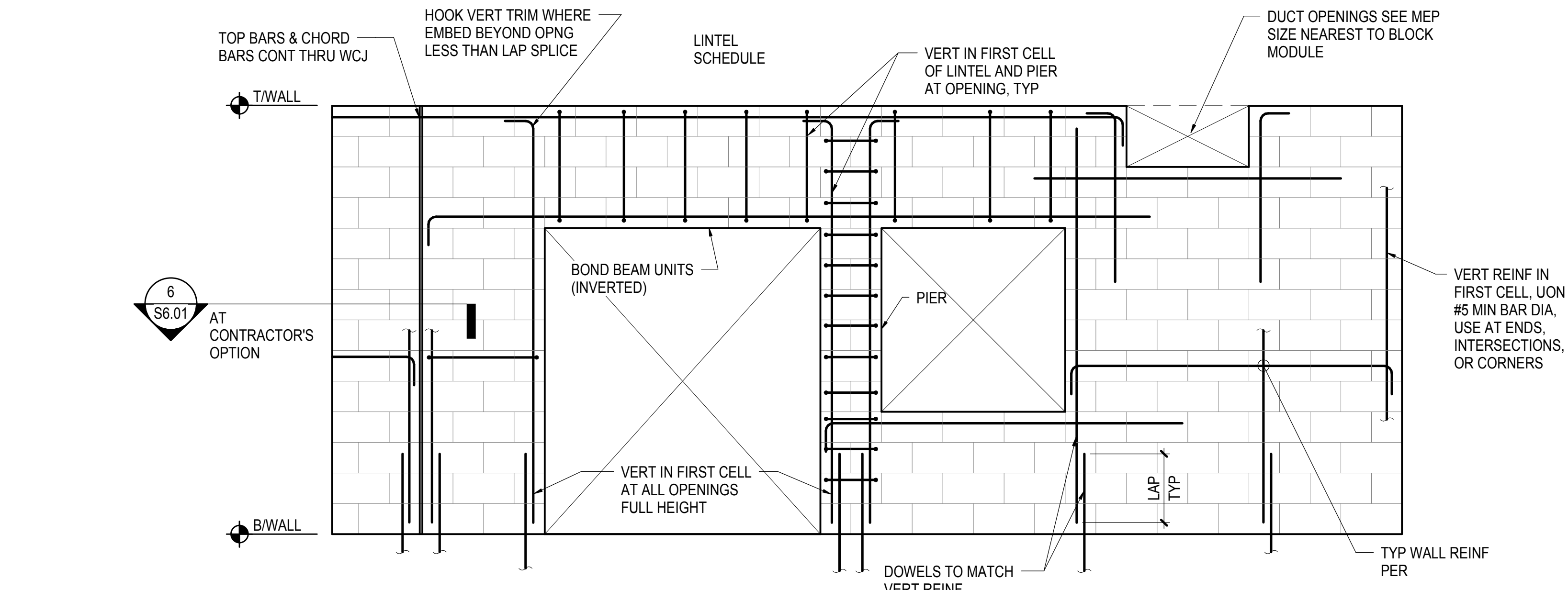
4 FOUNDATION SECTION AT INTERIOR WALL
1" = 1'-0"

FOUNDATION SECTION AT INTERIOR WALL

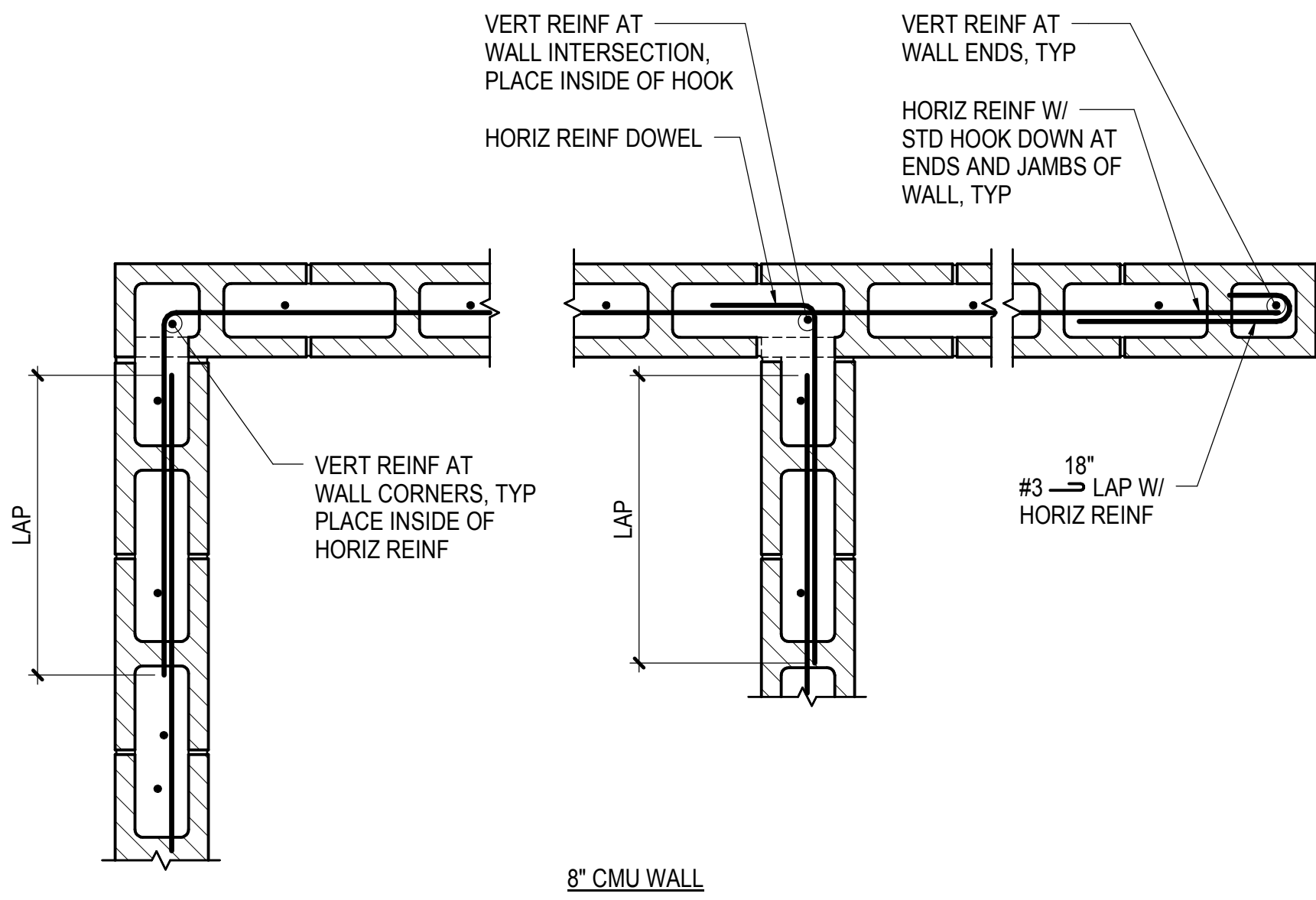




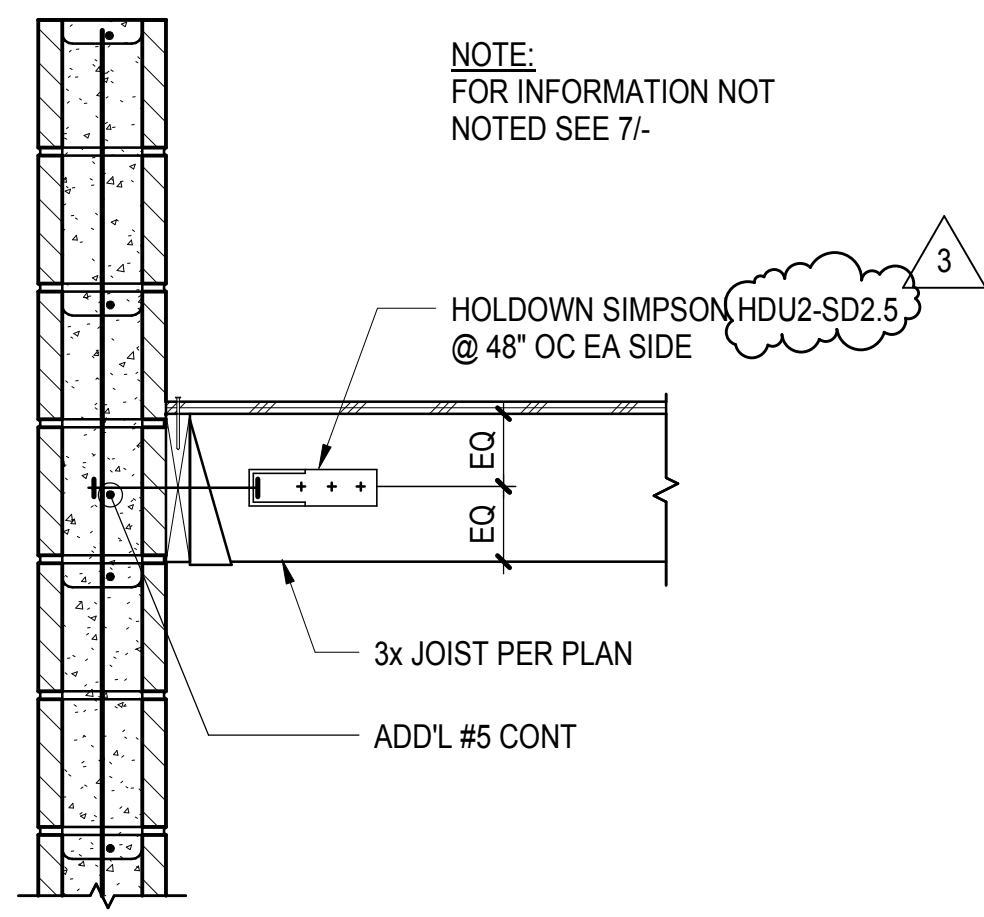
7 ROOF JOIST PERPENDICULAR TO EXTERIOR CMU WALL
1" = 1'-0"



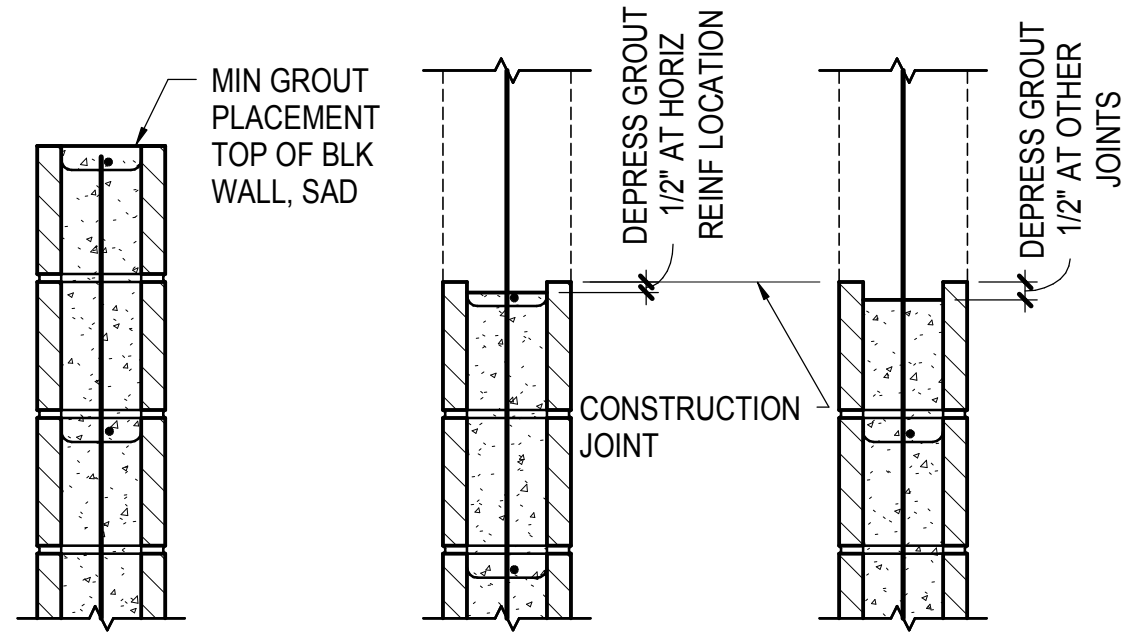
4 TYPICAL CMU WALL ELEVATION W/ OPENINGS
1" = 1'-0"



5 CMU WALL CORNERS & INTERSECTIONS
1" = 1'-0"

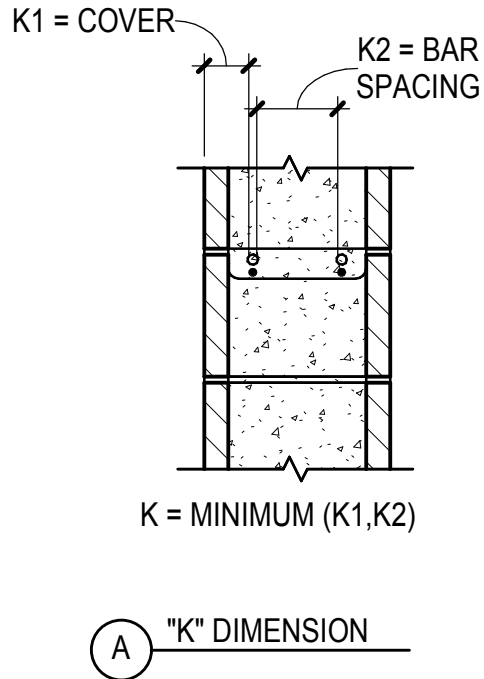


8 CMU WALL TIE AT PERPENDICULAR JOISTS
1" = 1'-0"



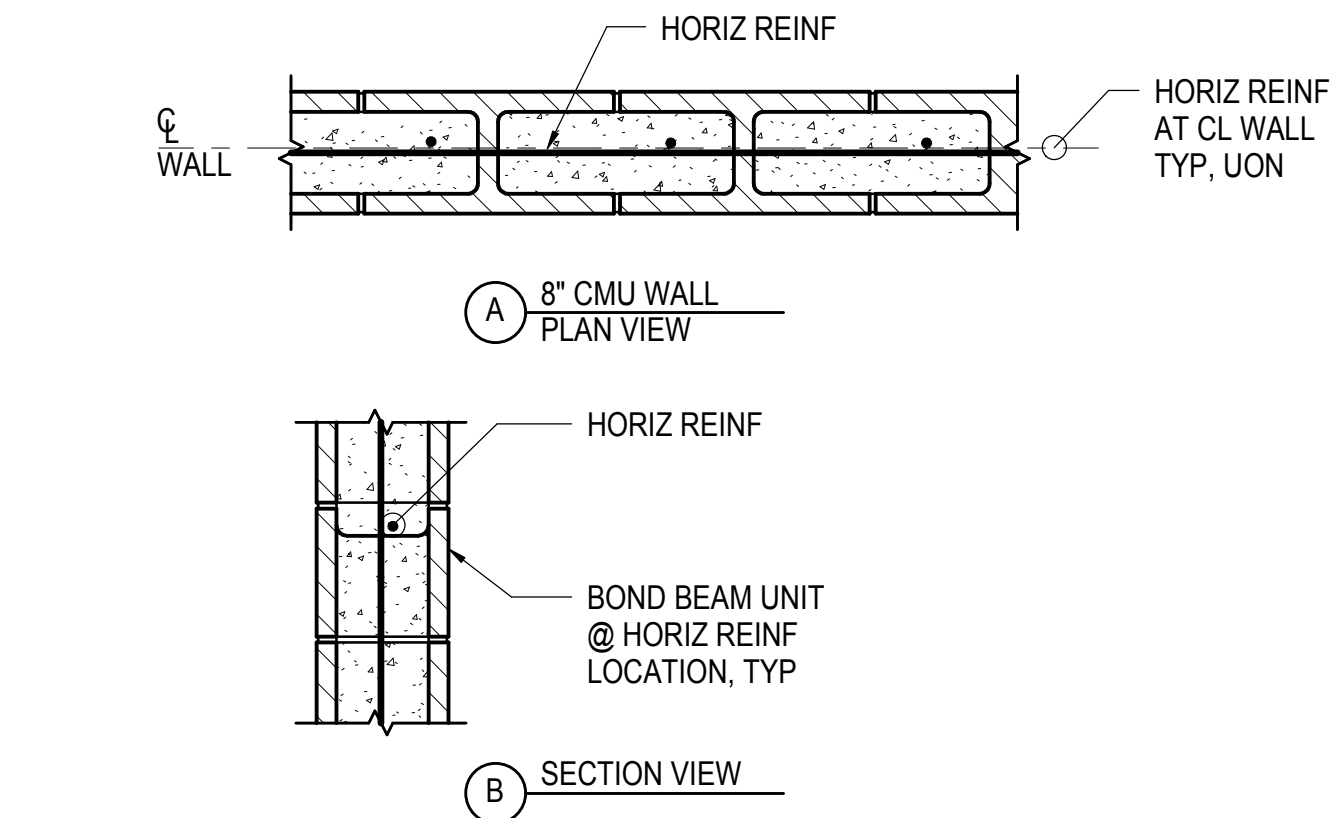
WALL SECTION VIEW

BAR SIZE	LAP SPLICE LENGTH (f'm = 2500 PSI)		
	FOR K ≥ 2db	FOR K ≥ 3db	FOR K ≥ 4db
#3	N.A.	1'-8"	1'-3"
#4	3'-0"	2'-2"	1'-8"
#5	3'-9"	2'-9"	2'-1"
#6	4'-6"	4'-3"	3'-3"
#7	5'-3"	5'-0"	3'-9"
#8	6'-0"	6'-0"	4'-11"
#9	6'-10"	6'-10"	5'-6"



- NOTES:
- "K" SHALL BE TAKE AS THE CMU COVER DIMENSION OR THE CLEAR SPACING BETWEEN ADJACENT BARS, WHICHEVER IS LESS. SEE DETAIL "A" ABOVE.
 - WHERE EPOXY-COATED REINFORCING IS USED, INCREASE LAP SPLICE LENGTH BY 50%.
 - SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS SHALL BE STAGGERED.
 - SPLICES OF HORIZONTAL REINFORCEMENT IN WALLS CONTAINING TWO CURTAINS OF REINFORCEMENT SHALL NOT OCCUR IN THE SAME LOCATION.
 - "N.A." MEANS "NOT ALLOWABLE". INCREASE "K" FOR ALLOWABLE LAP SPLICE.

REBAR OFFSET AND LAP SPLICE CMU f'm = 2500 PSI



REINFORCING SCHEDULE FOR CONCRETE MASONRY WALLS			
WALL TYPE	NOMINAL THICKNESS	VERTICAL REINF	HORIZONTAL REINF
CMU1	8"	#5 @ 16"OC	#6 @ 8"OC
CMU2	8"	#5 @ 16"OC	#5 @ 16"OC

- NOTES:
- SEE PLANS FOR WALL TYPE LOCATIONS.
 - LAP SPLICE REINFORCING PER 3/-.
 - CMU SHALL BE RUNNING BOND AND FULLY GROUTED, UON.
 - USE DOUBLE OPEN END BLOCKS TO THE EXTENT PRACTICAL TYP, DO NOT PLACE CLOSED SIDES BACK TO BACK.
 - SEE STRUCTURAL GENERAL NOTES FOR MATERIAL SPECIFICATION.
 - FOR WALL CONSTRUCTION JOINTS, SEE DETAIL 6/-.
 - FOR WALL CORNERS & INTERSECTIONS, SEE DETAIL 5/-.

2 CMU WALL REINFORCING SCHEDULE
1" = 1'-0"

PROJECT

KoningEizenberg Architecture
1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com

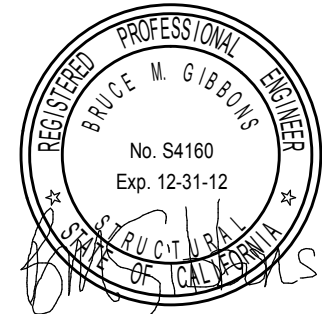
ARCHITECTS PROJECT NO.

1001

ARCHITECT

All designs, ideas, arrangements and plans indicated by these drawings are the property and copyright of the Architect and shall neither be used on any other work nor be disclosed to any other person for any use whatsoever without written permission.

Koning Eizenberg Architecture and/or its principals and employees waives any and all liability or responsibility for problems that may occur when these plans, drawings, specifications, and/or designs are followed without the professional's guidance with ambiguities, or conflicts which are alleged.



Thornton Tomasetti

Thornton Tomasetti, Inc.
6080 Center Drive, Suite 260
Los Angeles CA 90045-9204
T 310.665.0010 F 310.665.0101

CONSULTANT



1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL: (310) 458-2205
FAX: (310) 399-1541
architecture@smgov.net

SUBMITTED BY: DATE: 20

APPROVED BY: DATE: 20
Miriam Mulder
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
3	07/16/12		BULLETIN 1
	06/20/12		PLAN CHECK 2
	05/07/12		PLAN CHECK 1
1	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

100% CONSTRUCTION DOCUMENTS

DATE
07/16/2012
DRAWING NO.

6693

SHEET TITLE
TYPICAL CMU
DETAILS

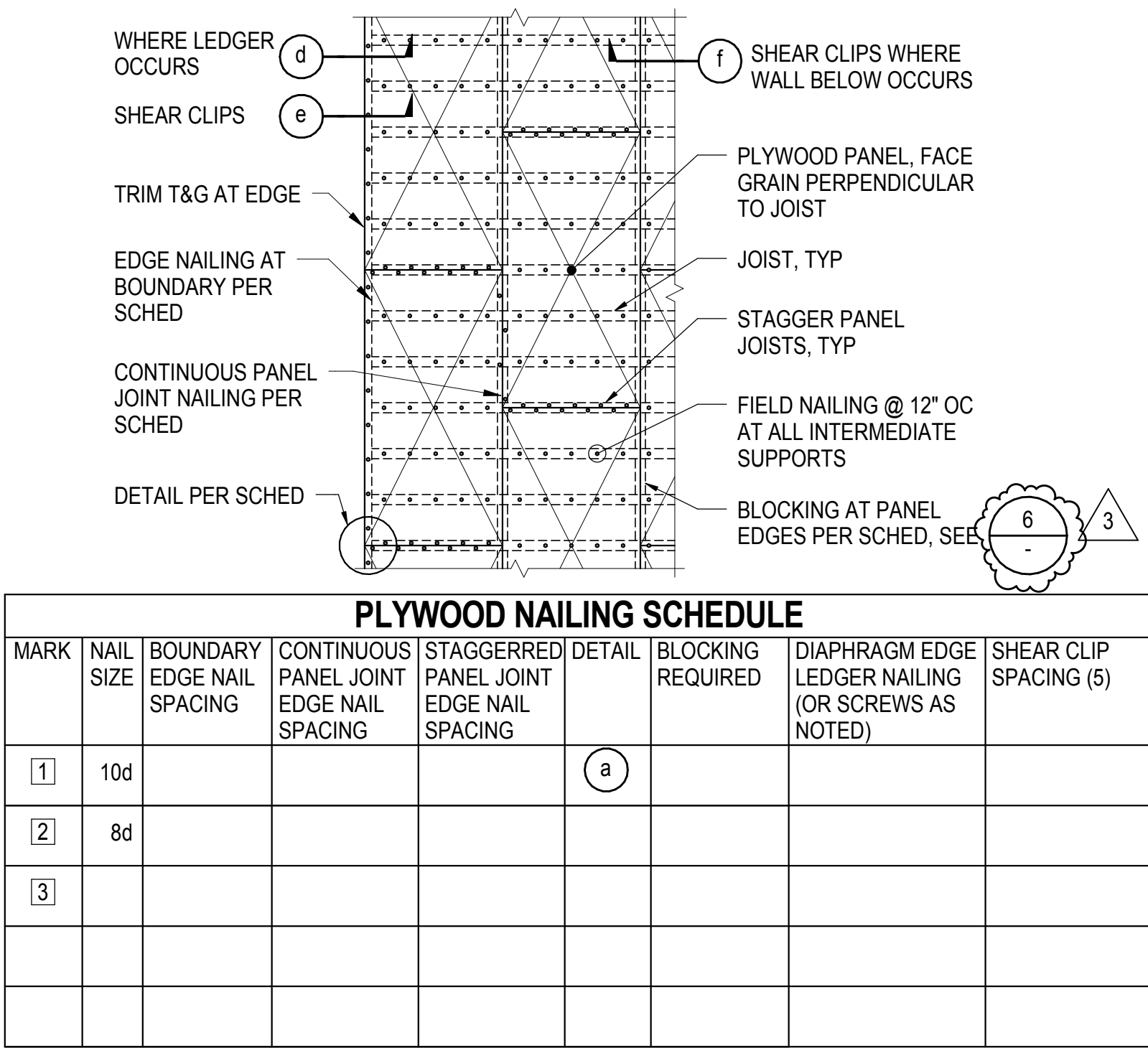
SHEET NO.

S6.01

FOOTNOTES:

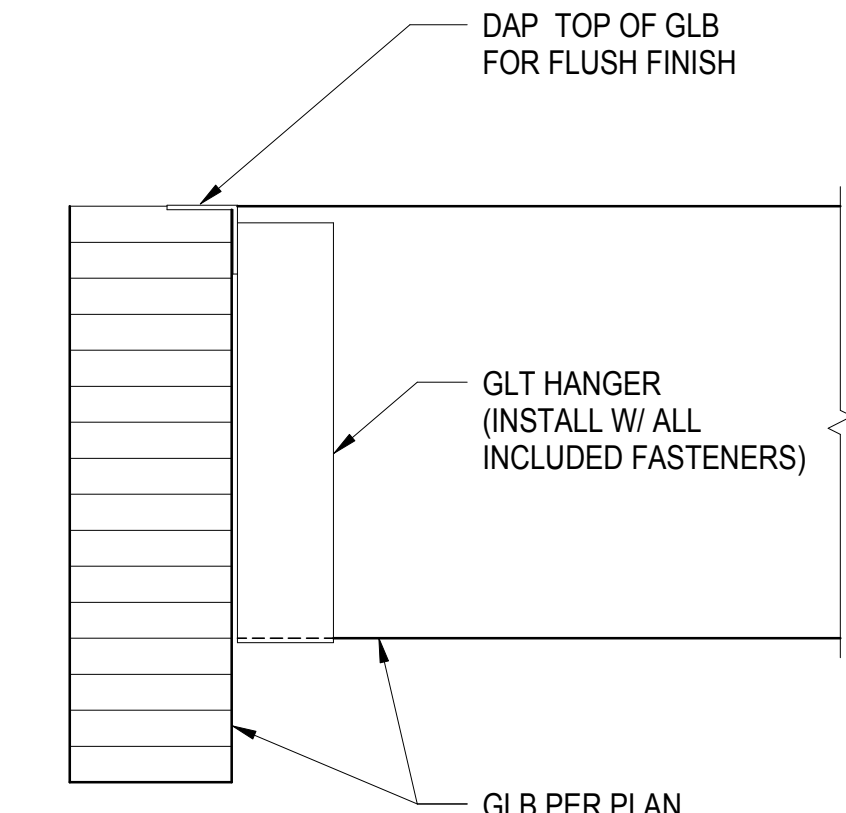
- a. Use common wire nails except where otherwise stated.
- b. Nails spaced at 6 inches on center at edges, 12 inches at intermediate supports except 6 inches at all supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Sections 2305. Nails for wall sheathing may be common, box or casing.
- c. Common or deformed shank. (6d-2", 8d-2-1/2", 10d-3")
- d. Common. (6d-2", 8d-2-1/2", 10d-3")
- e. Deformed shank. (6d-2", 8d-2-1/2", 10d-3")
- f. Corrosion-resistant siding or casing nails conforming to the requirements of Section 2304.9.5.
- g. Fasteners spaced 3 inches on center at exterior edges and 6 inches on center at intermediate supports, when used as structural sheathing Spacing shall be 6 inches on center on the edges and 12" on center at intermediate supports for non structural applications.
- h. Corrosion-resistant roofing nails with 7/16" inch-diameter head and 1-1/2"-inch length for 1/2"-inch sheathing and 1-3/4"-inch length for 25/32-inch sheathing conforming to the requirements of Section 2304.9.5.
- i. Corrosion-resistant staples with nominal 7/16-inch crown and 1-1/8-inch length for 1/2-inch sheathing and 1-1/2-inch length for 25/32-inch sheathing conforming to the requirements of Section 2304.9.5.
- j. Casing or finish nails spaced 6-inches on panel edges, 12 inches at intermediate supports.
- k. Panel supports at 24". Casing or finish nails spaced 6" on panel edges, 12" at intermediate supports.
- l. For roof sheathing applications, 8d nails are the minimum required for wood structural panels.
- m. Staples shall have a minimum crown width of 7/16 inch.
- n. For roof sheathing applications, fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports.
- o. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports for subfloor and wall sheathing and 3 inches on center at edges, 6 inches at intermediate supports for roof sheathing.
- p. Fasteners spaced 4 inches on center at edges, 8 inches at intermediate supports.
- q. For roof slopes 3:12 or greater in which ceiling joists serve as a tie for roof rafters, minimum nailing per CBC Table 2308.10.4.1.
- r. For roof slopes 3:12 or greater in which ceiling joists serve as a tie for roof rafters, minimum nailing must be adequate to withstand minimum wind uplift per CBC Table 2308.10.1.
- s. At 3x sole, 2-20d end nails shall be used in place of 2-16d end nails.

7 DIAPHRAGM NAILING SCHEDULE
NOT TO SCALE



NOTE:1

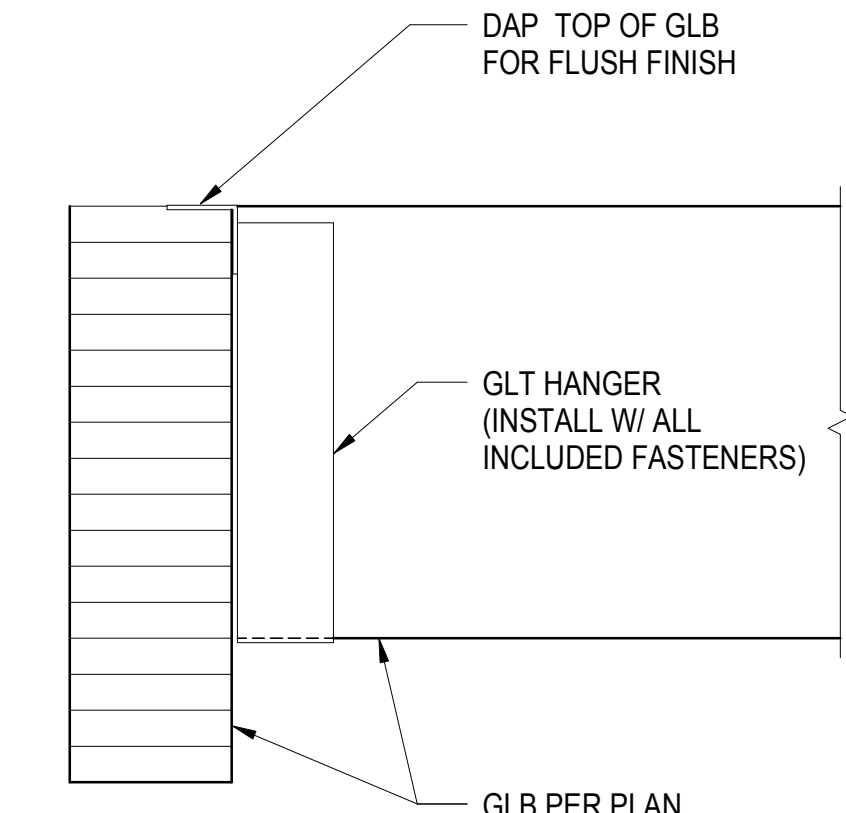
1. INSTALL NAILS INTO GLB BEAMS PER HANGER MANUFACTURER'S INSTRUCTIONS.



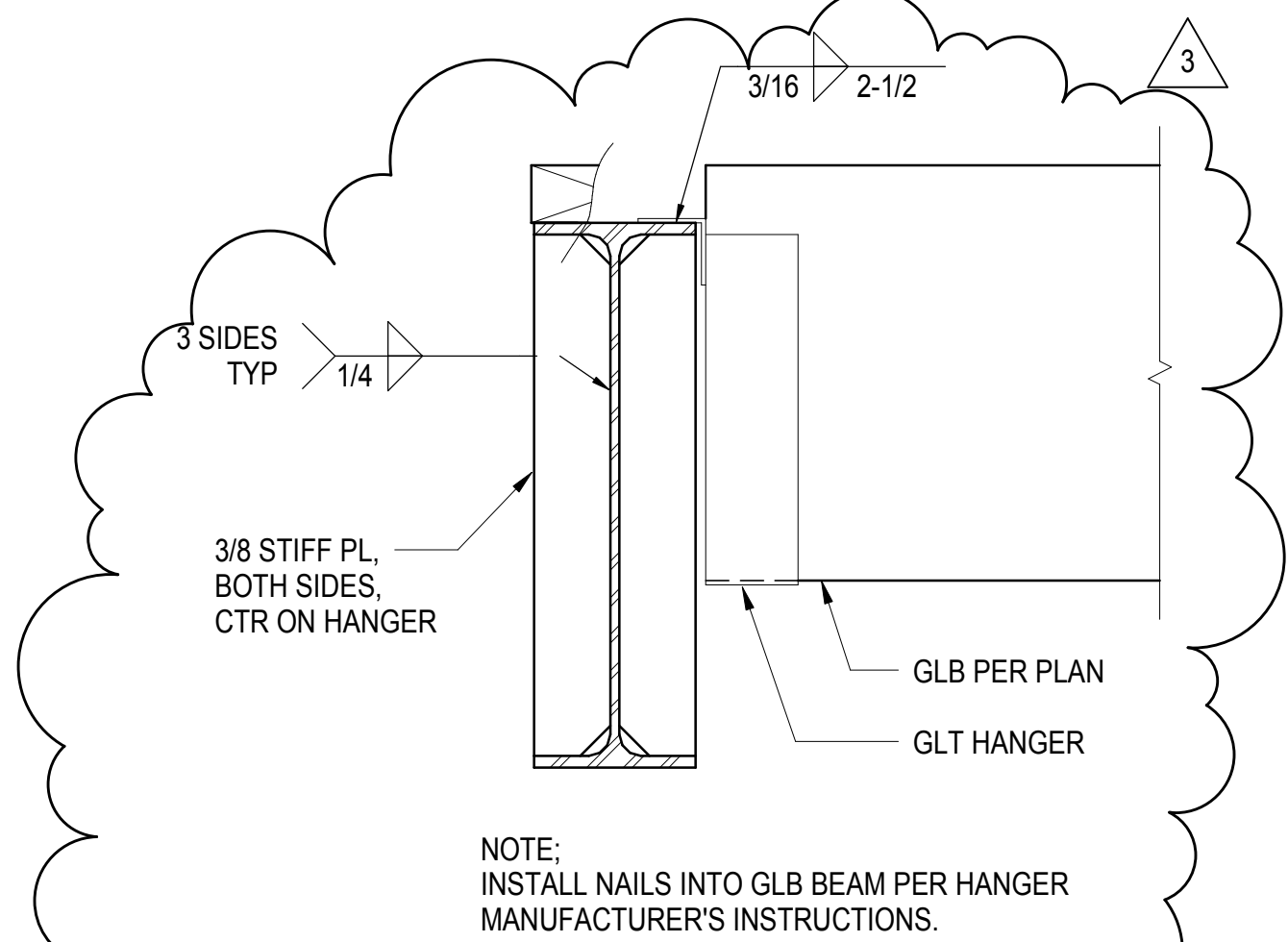
HANGER AT JOIST TO WOOD BEAM					HANGER AT JOIST TO STEEL WF BEAM				
JOIST SIZE	TYPICAL HANGER	FASTENERS INTO SUPPORT	SKWEDED AND/OR SLOPED HANGER	FASTENERS INTO SUPPORT	TYPICAL HANGER	FASTENERS INTO NAILER	SKWEDED AND/OR SLOPED HANGER	FASTENERS INTO NAILER	
2x4	LUS24	4-10dX1-1/2"	U24	4-10dX1-1/2"	LB26	4-16dX2-1/2"	LBV, W=1-9/16	6-16dX2-1/2"	
2x6	LUS26	4-10dX1-1/2"	U26	6-10dX1-1/2"	LB28	4-16dX2-1/2"	LBV, W=1-9/16, H=7-1/4	6-16dX2-1/2"	
2x8	LUS28	6-10dX1-1/2"	U26	6-10dX1-1/2"	LB210	4-16dX2-1/2"	LBV, W=1-9/16, H=9-1/4	6-16dX2-1/2"	
2x10	LUS210	8-10dX1-1/2"	U210	10-10dX1-1/2"	-	-	-	-	
DBL 2x10	LUS210-2	8-16dX1-1/2"	U210-2	14-10dX1-1/2"	-	-	-	-	
2x12	LUS210	8-10dX1-1/2"	U210	10-10dX1-1/2"	LB212	4-16dX2-1/2"	-	-	

NOTES:

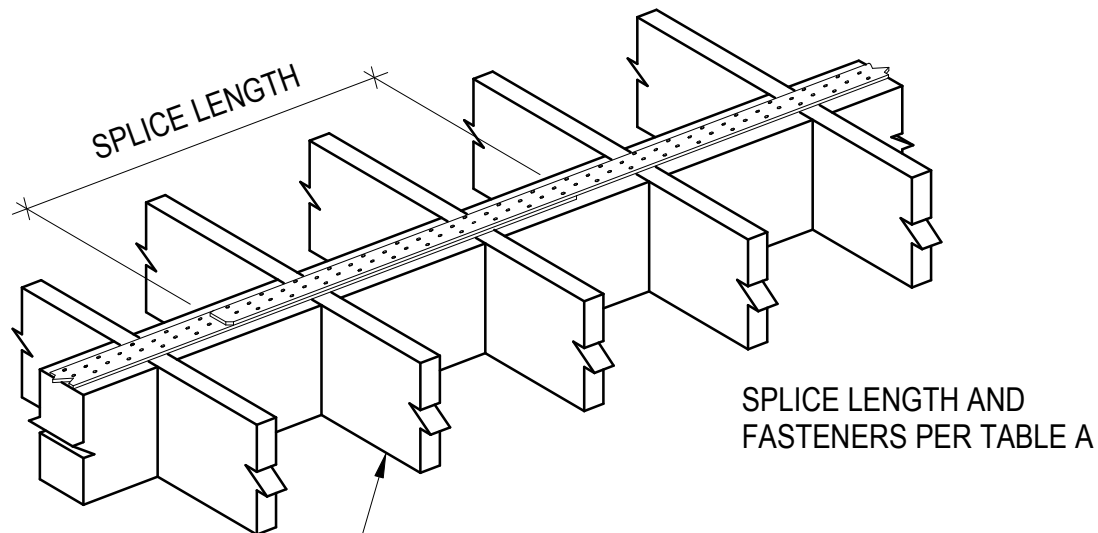
1. PROVIDE AND INSTALL NAILS INTO JOIST PER HANGER MANUFACTURER'S INSTRUCTIONS. FILL ALL HOLES TO ACHIEVE MAXIMUM VALUES AS SPECIFIED BY MFR.
2. TYPICAL HANGERS MAY BE USED UP TO 5° SKEW AND/OR 1/2" : 12 SLOPE. OTHERWISE PROVIDE SKEWED AND/OR SLOPED HANGERS.
3. SEE DETAIL 3 ON THIS SHEET FOR TYPICAL ATTACHMENT OF NAILERS AND BACKER BLOCK TO WIDE FLANGE BEAMS.



① **HANGER FOR GLB ON WF BEAM**
1 1/2" = 1'-0"

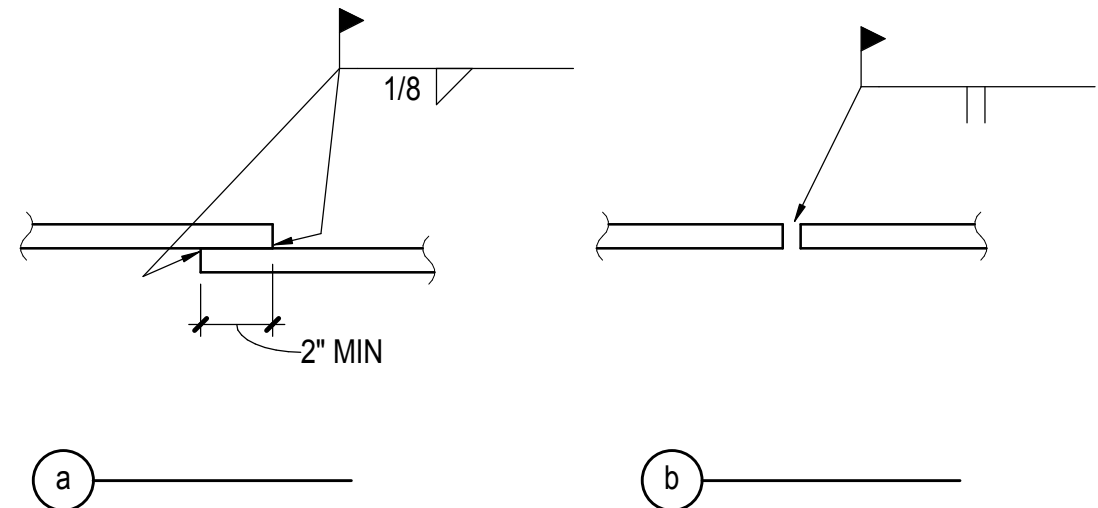


NOTE;
INSTALL NAILS INTO GLB BEAM PER HANGER
MANUFACTURER'S INSTRUCTIONS.

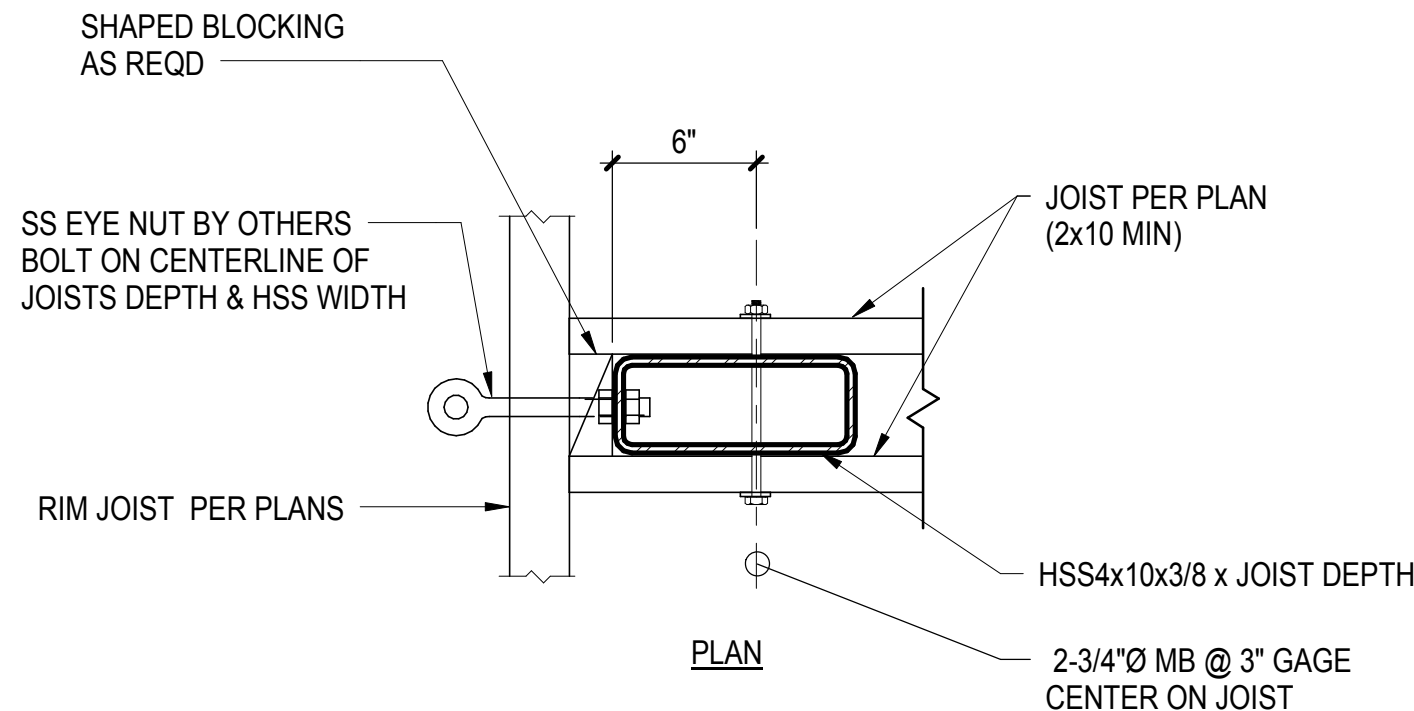
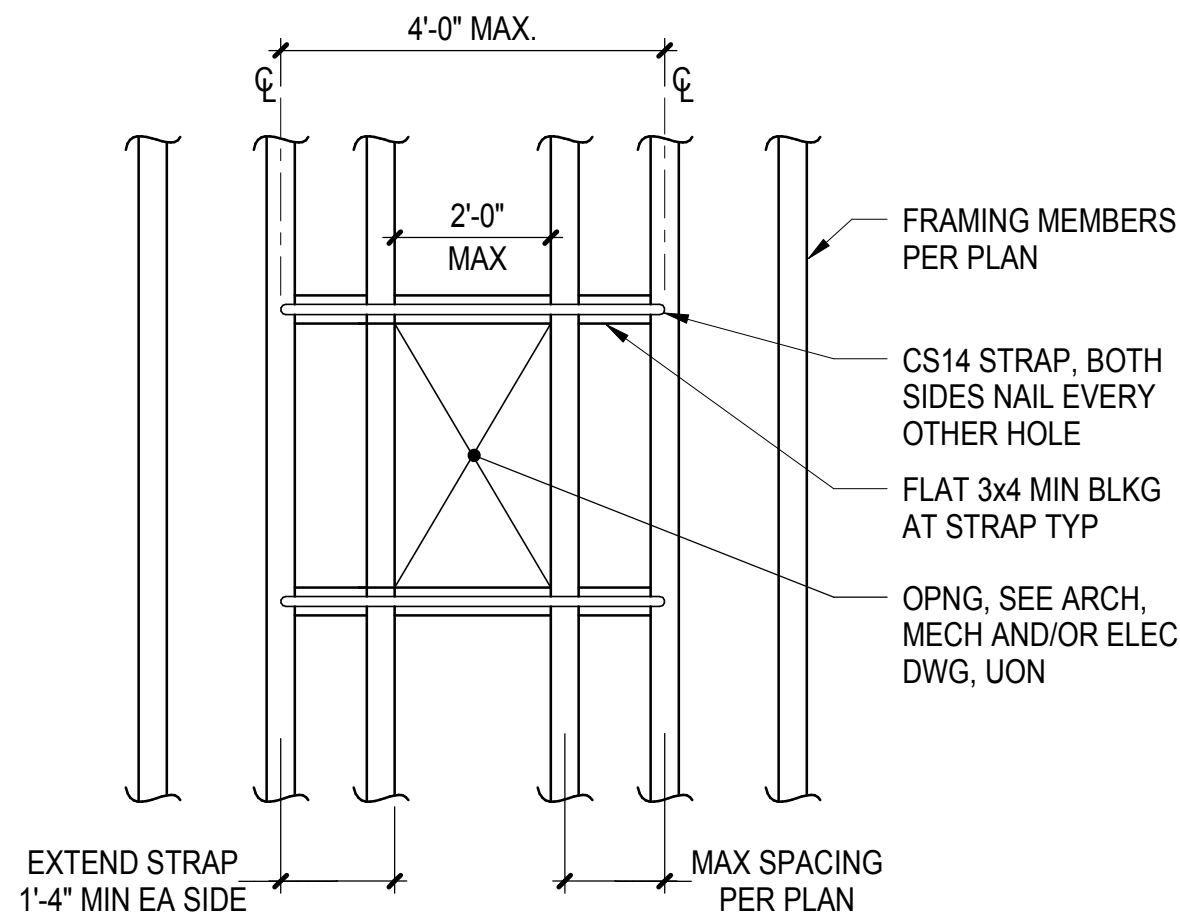


MODEL No.	GAGE	STRAP LAP SPICE	
		MINIMUM FASTENERS PER SPICE	MINIMUM SPICE LENGTH
CMST12	12	25-16d 30-10d	22" 27"
CMST14	14	18-16d 21-10d	16" 19"
CMSTC16	16	13-16d 15-10d	11" 12"

- NOTES:
1. NO STRAP MODIFICATION IS ALLOWED AND SPICE MUST MEET BOTH MINIMUM NUMBER OF FASTENERS AND THE MINIMUM SPICE LENGTH.
 2. ALTERNATE PER DETAIL 9/ MAY BE USED AT CONTRACTOR'S OPTION.



NOTE: EITHER DETAIL (a) OR (b) MAY BE USED IN LIEU OF 1/- COORDINATE ARCHITECTURAL FINISH REQUIREMENTS.



12 STRAP SPICE

NOT TO SCALE

9 STRAP SPICE - ALTERNATE

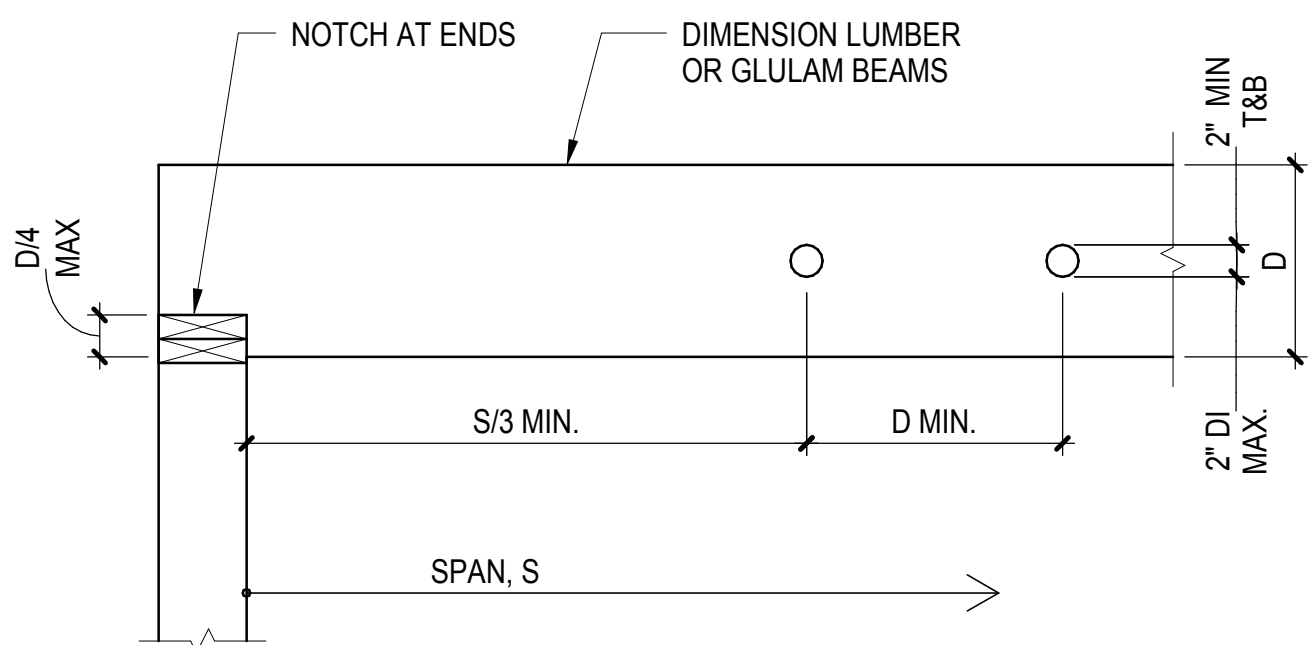
NOT TO SCALE

6 SMALL OPENING IN DIAPHRAGM

1/2" = 1'-0"

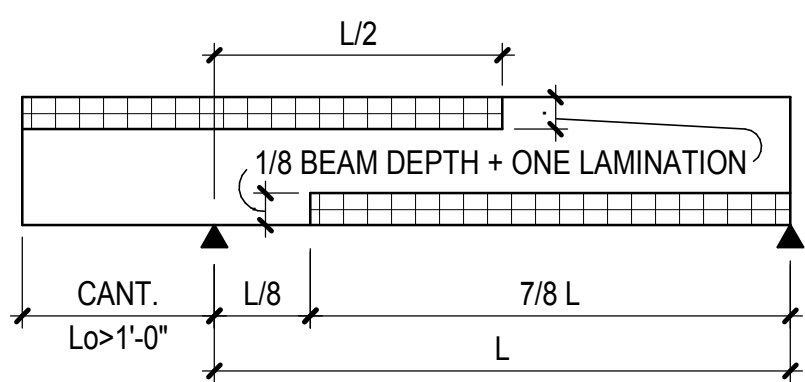
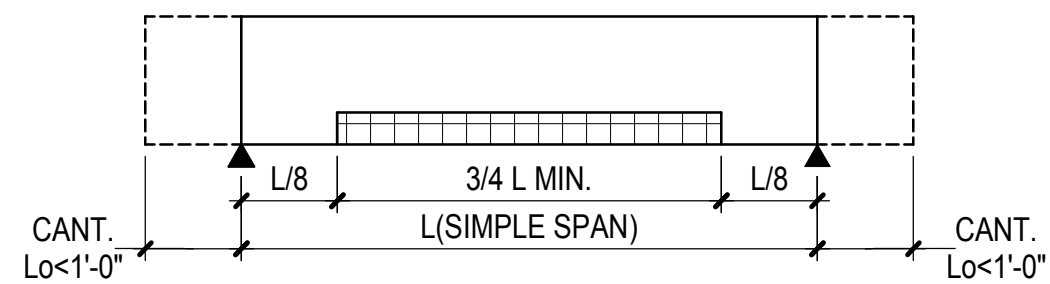
3 EYE BOLT ANCHOR DETAIL

1 1/2" = 1'-0"



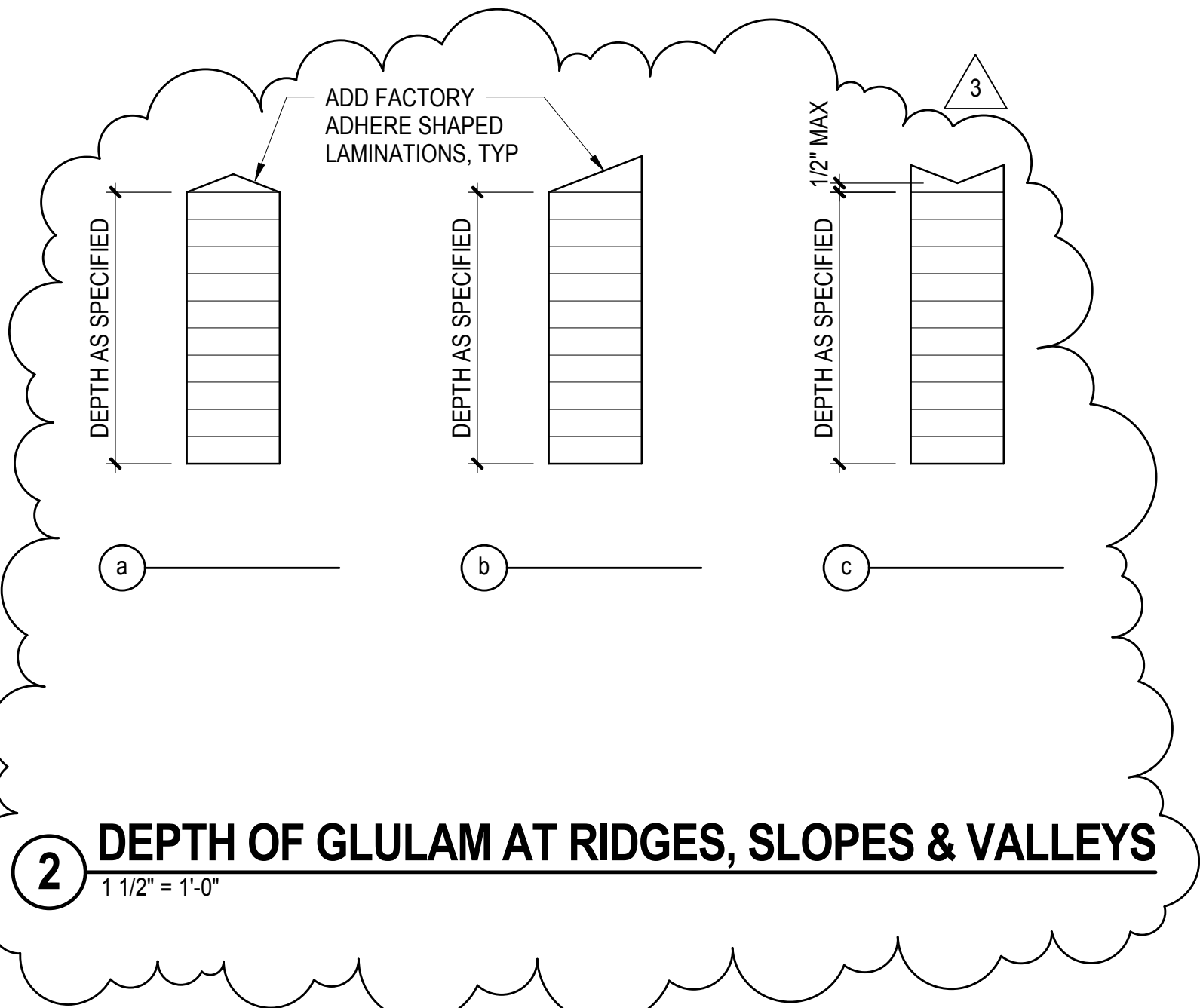
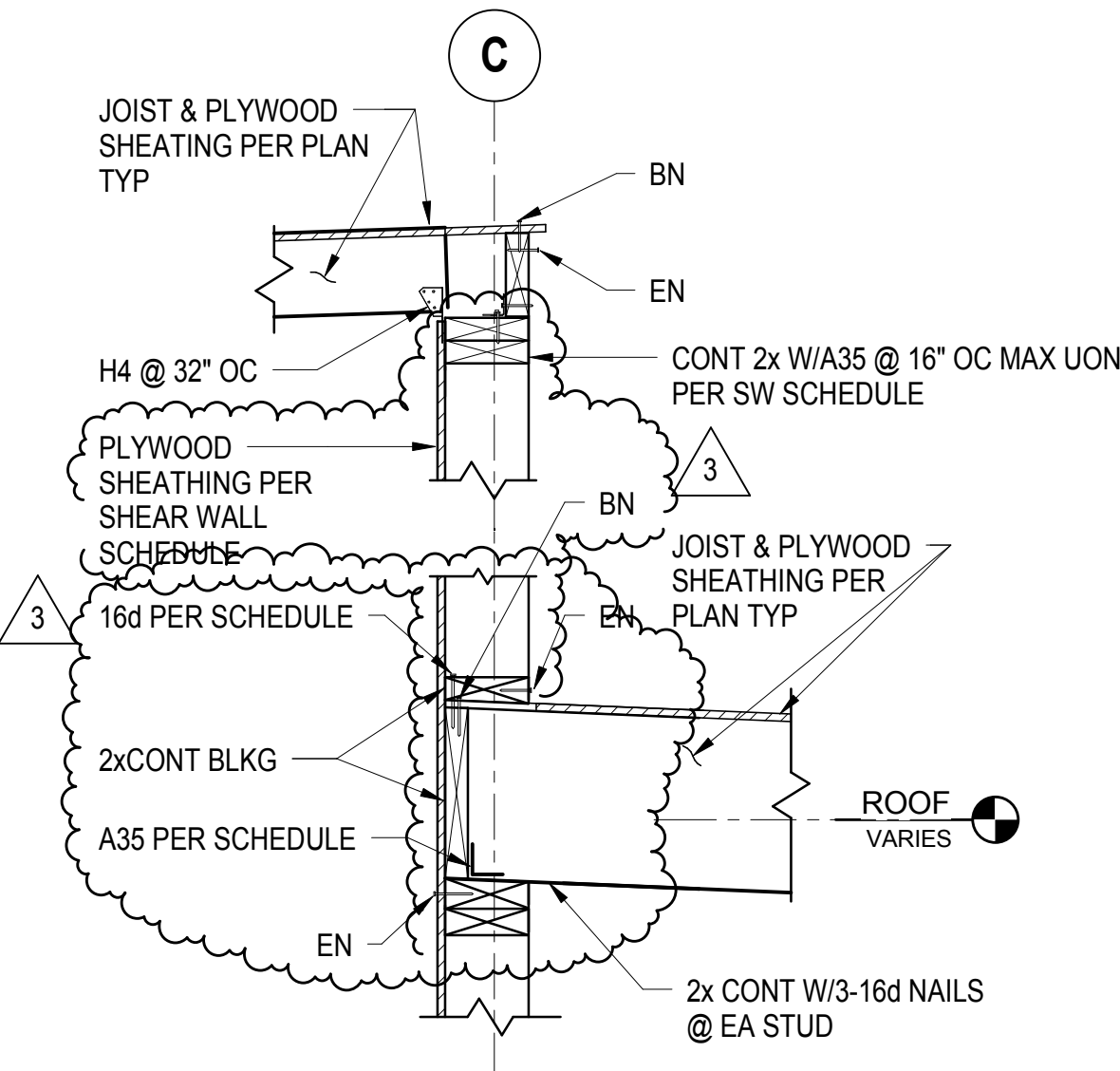
NOTE:

1. NOTCH MAY OCCUR TOP OR BOTTOM, NOT BOTH.



BEAM WITH ONE END CANTILEVERED

CROSS HATCHED AREA = PORTION OF BEAM WHERE THERE SHALL BE 6" MIN. END JOINT SPACING IN ADJACENT LAMINATIONS.



11 HOLES AND NOTCHES IN BEAMS

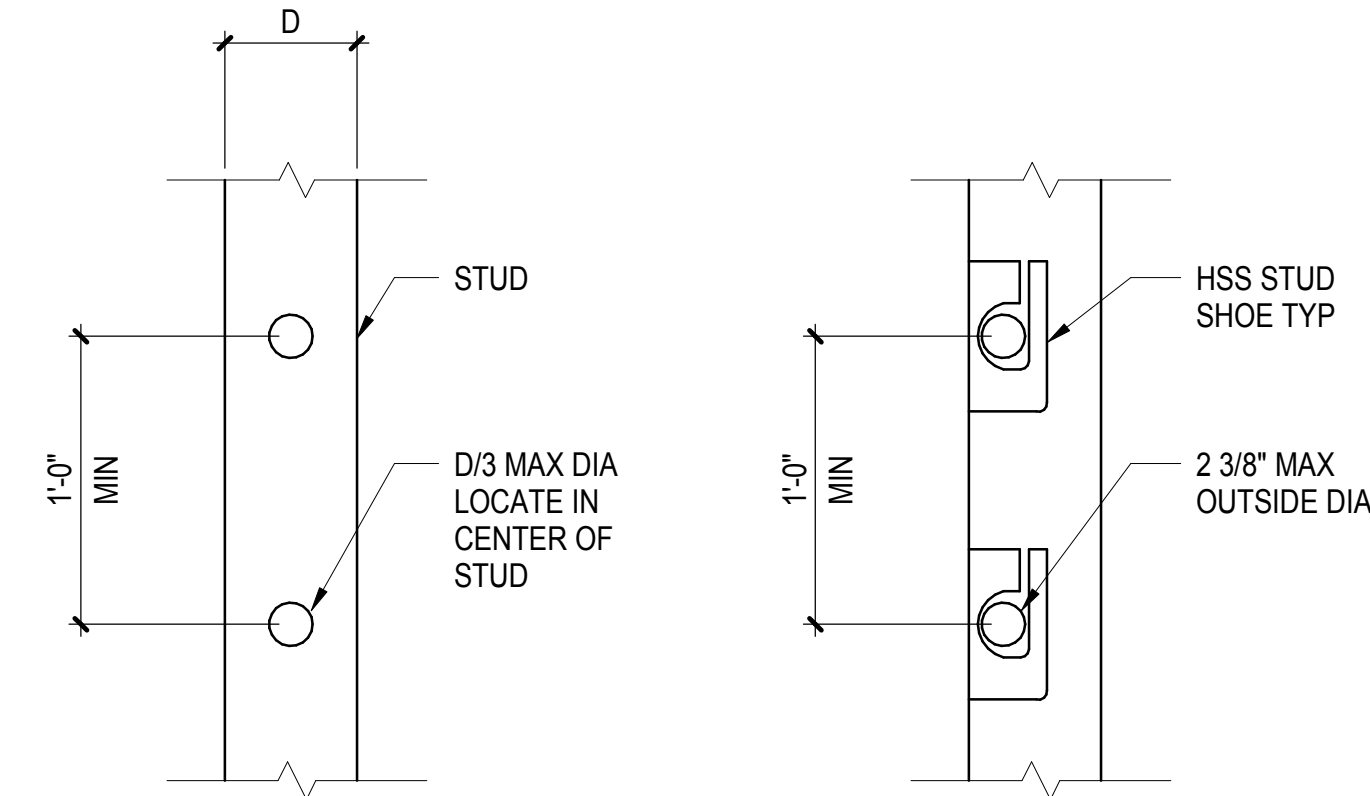
1" = 1'-0"

8 GLULAM LAMINATION SPICE CRITERIA

1" = 1'-0"

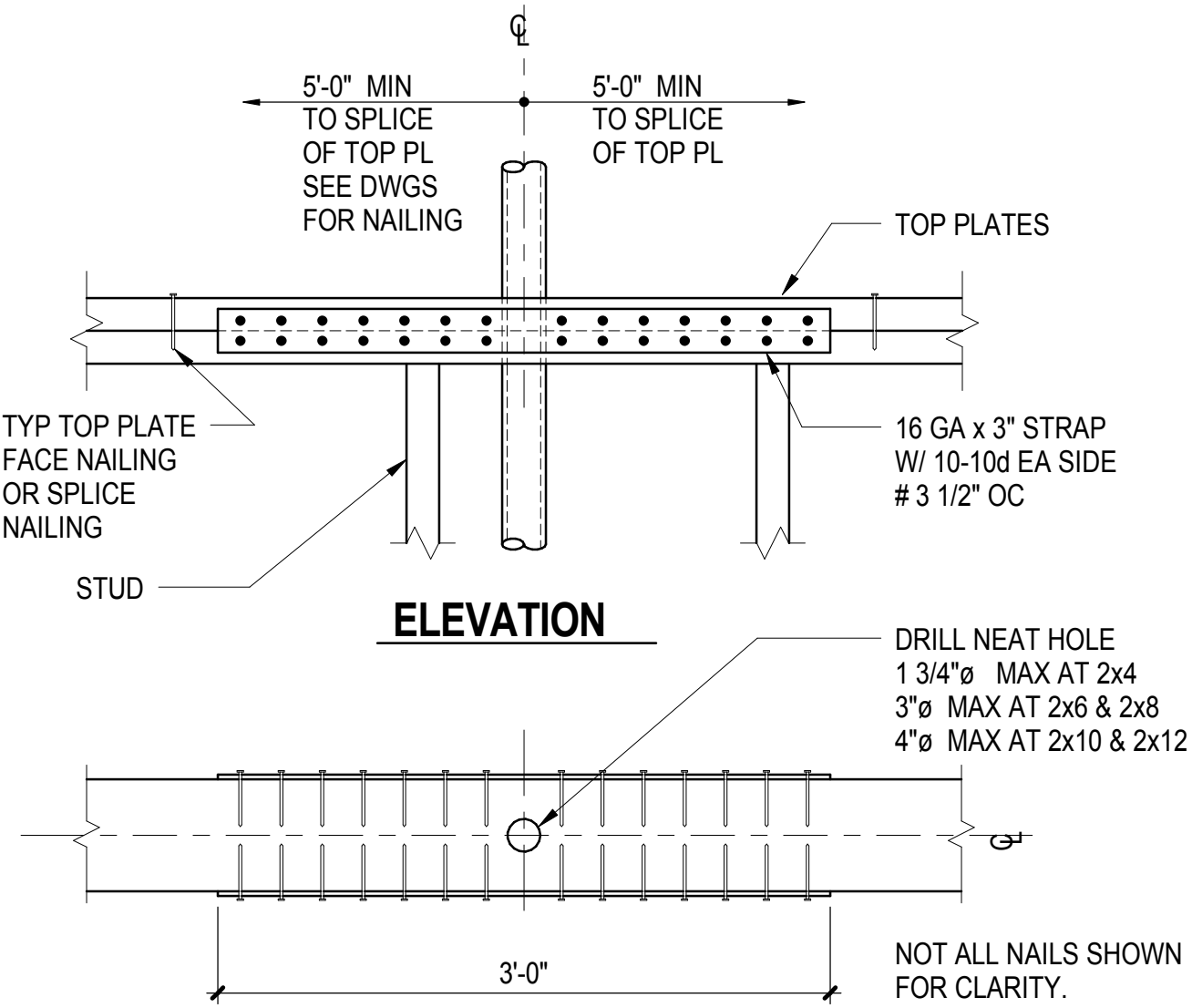
5 SECTION

1" = 1'-0"

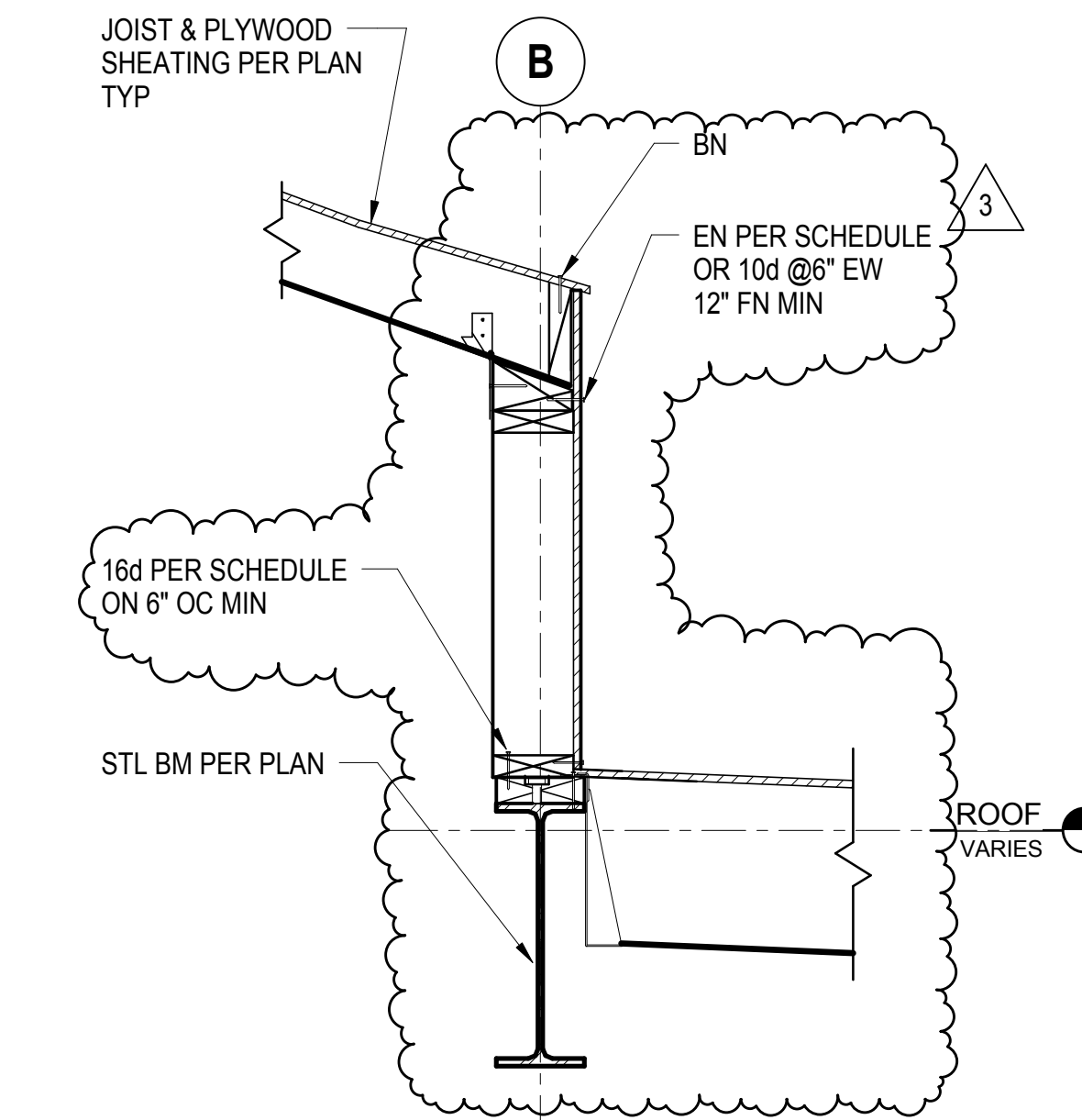


TYPICAL STUD WALLS

INTERIOR NON-SHEAR WALLS



PLAN VIEW



4 SECTION

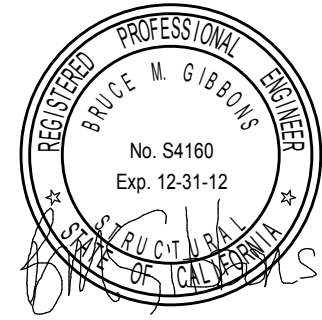
1" = 1'-0"

10 PENETRATIONS THROUGH WALL STUDS

1 1/2" = 1'-0"

7 TOP PLATE MEP PENETRATION

1 1/2" = 1'-0"



Thornton Tomasetti

Thornton Tomasetti, Inc.
6080 Center Drive, Suite 260
Los Angeles CA 90045-9204
T 310.665.0010 F 310.665.0101



1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL: (310) 458-2205
FAX: (310) 399-1541
architecture@smgov.net

DATE: 20

SUBMITTED BY:

DATE: 20

APPROVED BY:

Miriam Muller
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

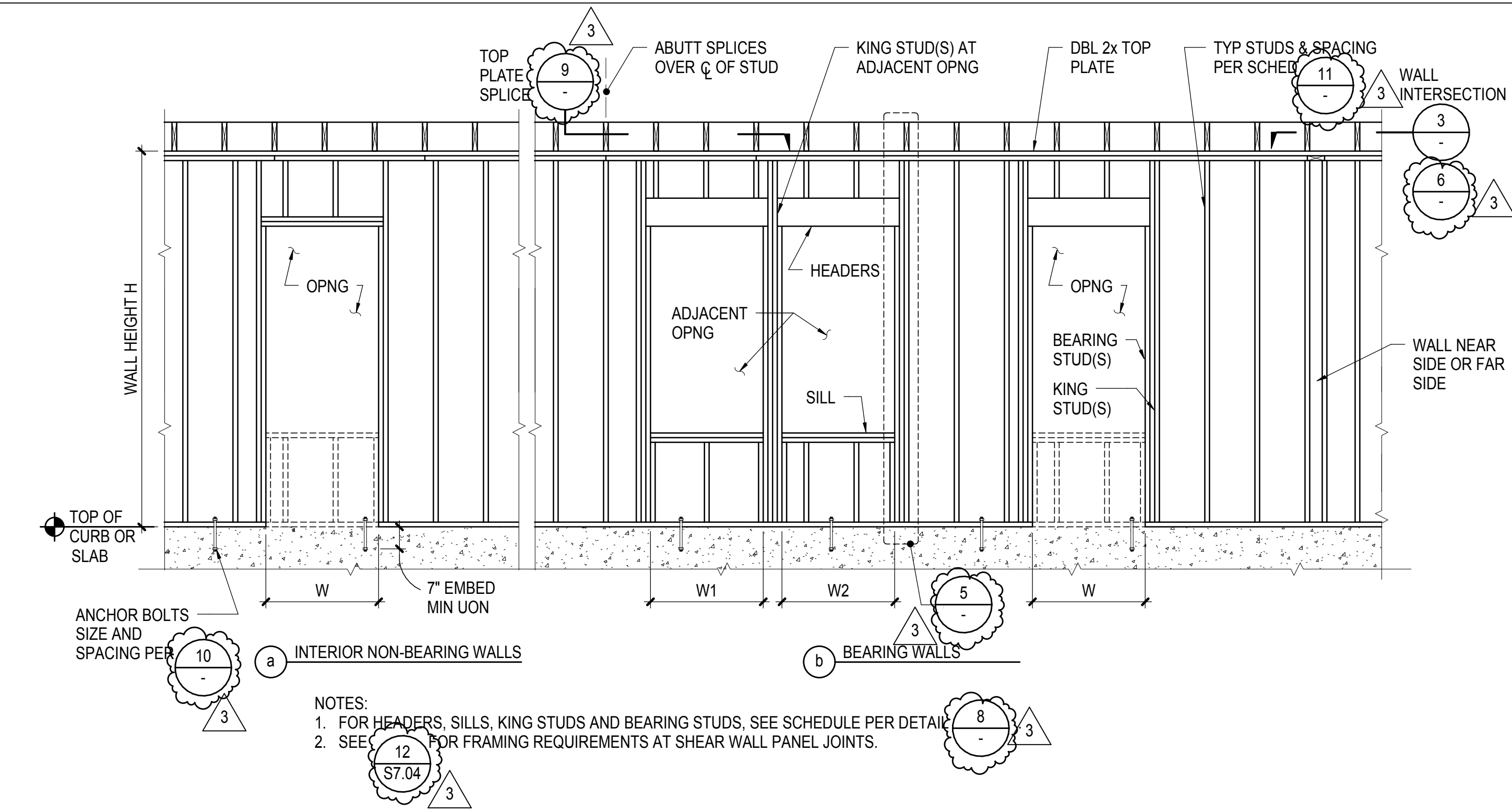
REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

NO.	DATE	BY	DESCRIPTION
1	07/16/12		BULLETIN 1
2	09/20/12		PLAN CHECK 2
3	09/07/12		PLAN CHECK 1

12 TYPICAL WALL FRAMING



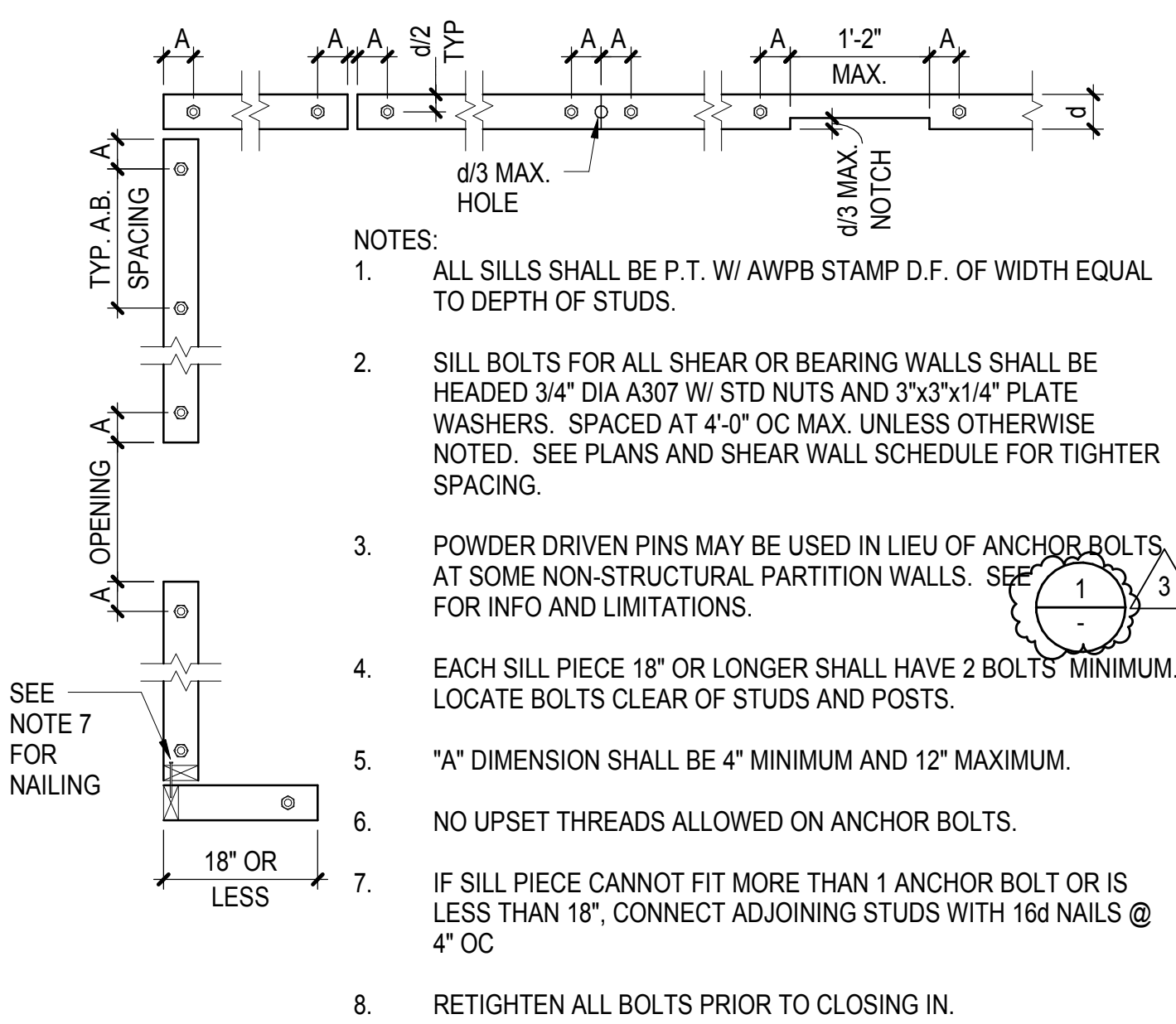
BEARING WALL STUD SCHEDULE			INTERIOR NON-BEARING WALL STUD SCHEDULE		
WALL HEIGHT	STUD SIZE	SPACING	WALL HEIGHT	STUD SIZE	SPACING
H ≤ 15'-0"	2x6	16"	H ≤ 10'-0"	2x4	16"
15'-0" < H ≤ 19'-0"	2x6	8"	10' < H ≤ 15'-0"	2x6	16"
			15'-0" < H ≤ 24'-0"	2x6	8"

BEARING WALL SCHEDULE						
OPENING WIDTH	KING STUD(S)	ADJACENT OPENINGS		HEADER ² DEPTH UON ON PLAN	BEARING STUD(S)	SILL
		COMBINED WIDTH W1+ W2	KING STUD(S)			
W ≤ 6'-0"	2-2x	6'-0" MAX	3-2x	8x	1-2x6	1-2x
W ≤ 8'-0"	3-2x	8'-0" MAX	4-2x	10x	2-2x6	2-2x
W ≤ 10'-0"	3-2x	10'-0" MAX	4-2x	12x	2-2x6	2-2x

NON-BEARING WALL SCHEDULE						
OPENING WIDTH	KING STUD(S)	ADJACENT OPENINGS		HEADER ² DEPTH	BEARING STUD(S)	SILL
		COMBINED WIDTH W1+ W2	KING STUD(S)			
W ≤ 6'-0"	2-2x	6'-0" MAX	2-2x	2-2x	1-2x	1-2x
W ≤ 10'-0"	2-2x	10'-0" MAX	3-2x	3-2x	1-2x	1-2x

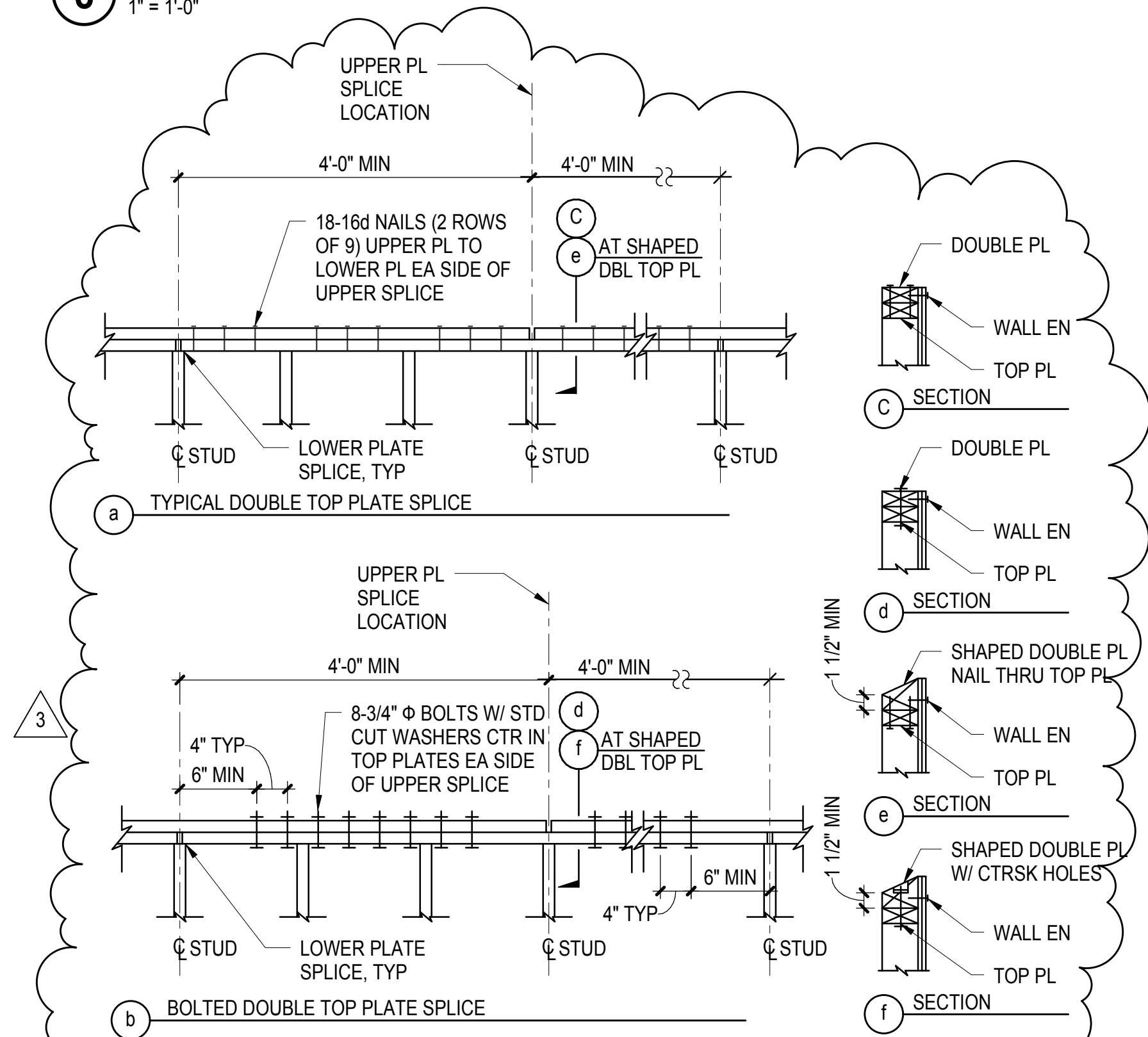
- NOTES:
- NOTE: AT HD, USE POST PER DETAIL 10 AND ADD KING STUD(S) TO HD POST IF REQUIRED TO CREATE A TOTAL POST WIDTH GREATER THAN THE SCHEDULED KING POST.
 - STUD, SILL, AND HEADER WIDTHS TO MATCH WALL FRAMING SIZE.

11 WALL STUD SCHEDULE



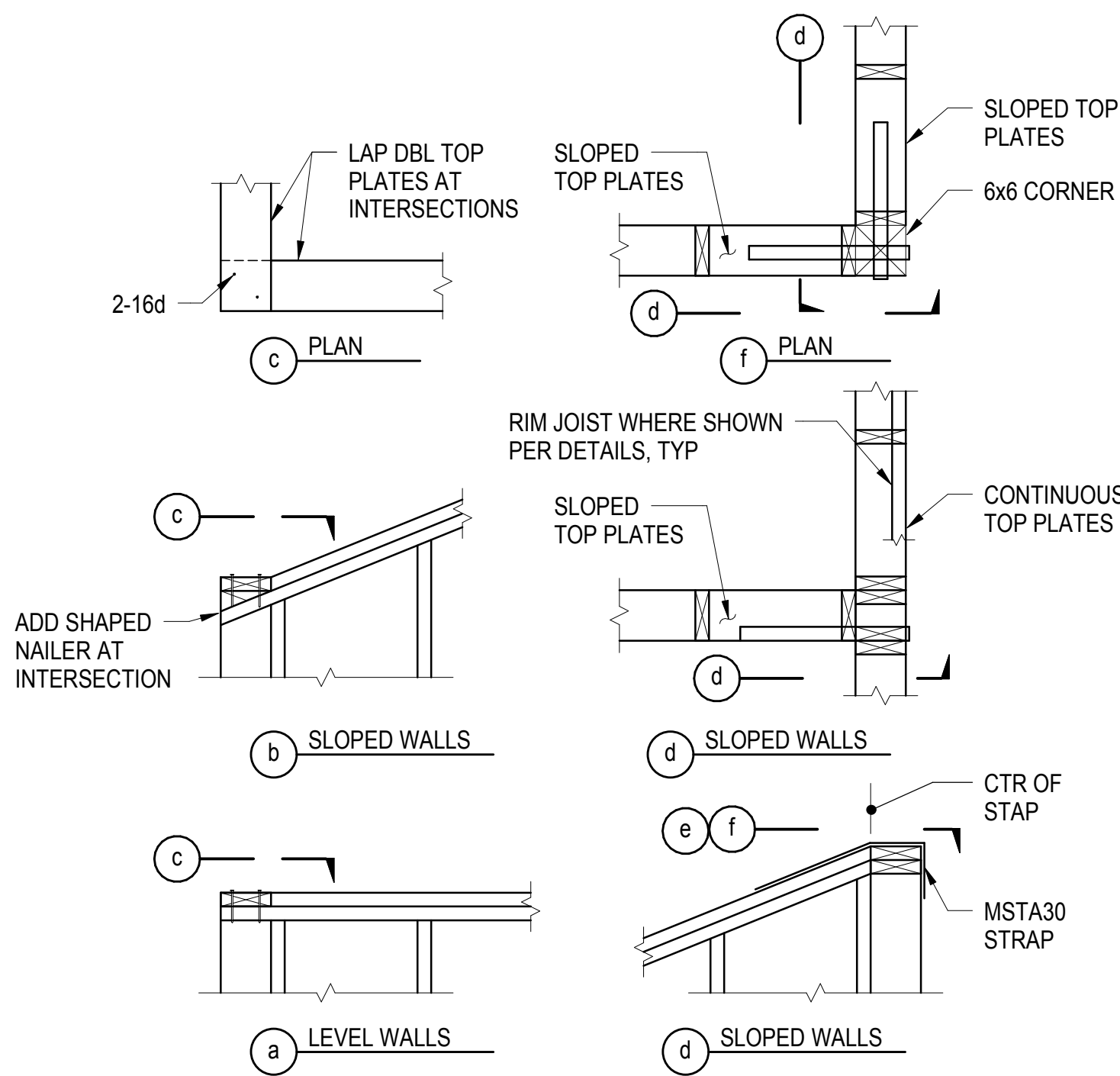
10 ANCHOR BOLT AND SILL PLATE

8 FRAMING SCHEDULE AT OPENING

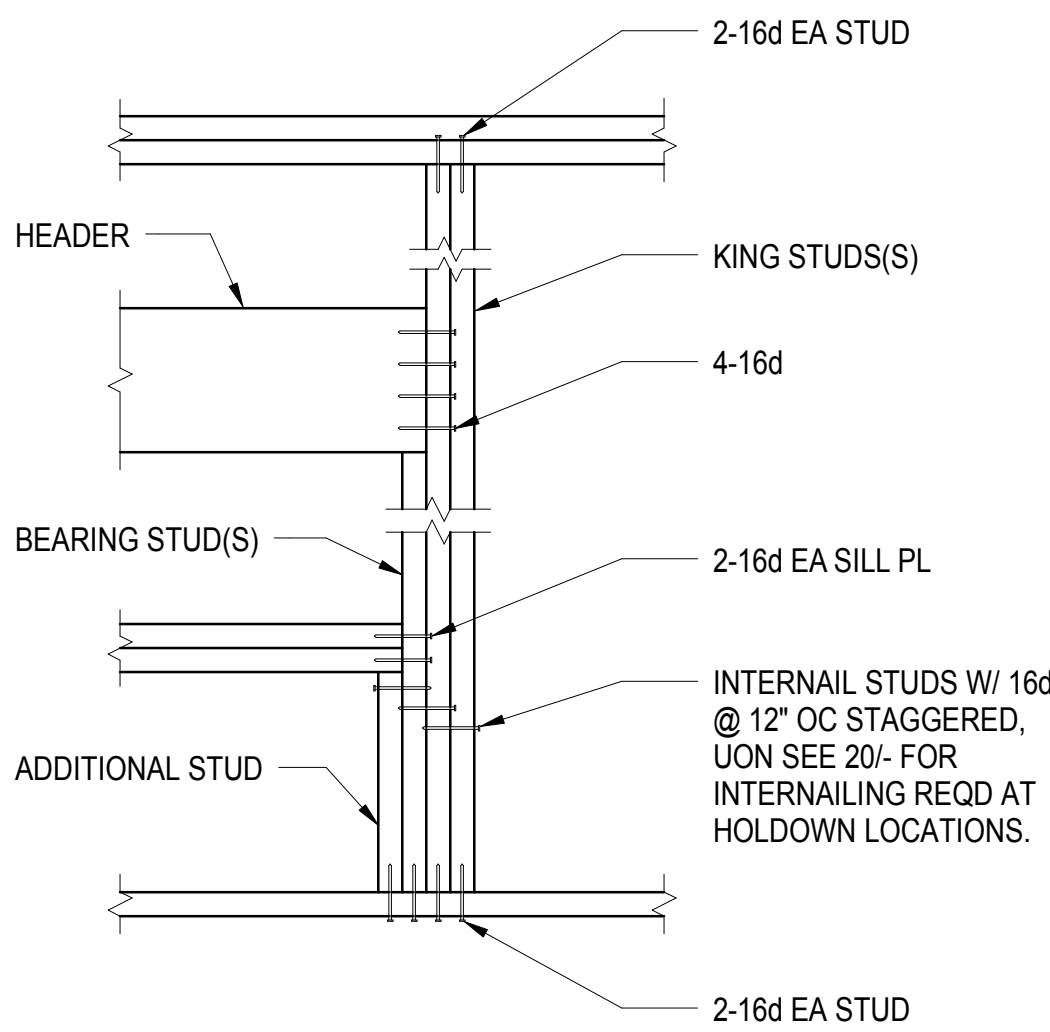
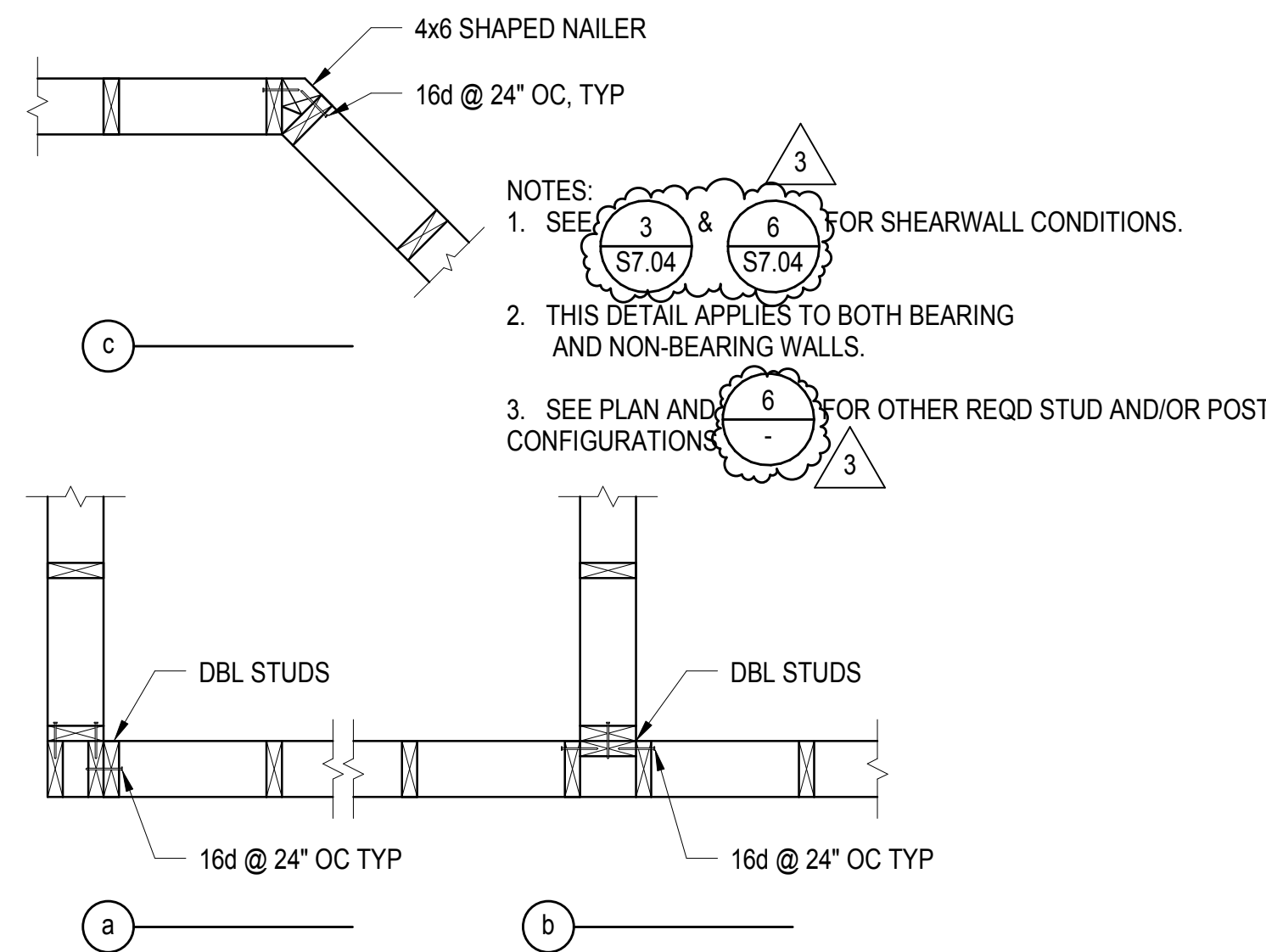


9 DOUBLE TOP PLATE SPLICE

6 TOP PLATE INTERSECTIONS



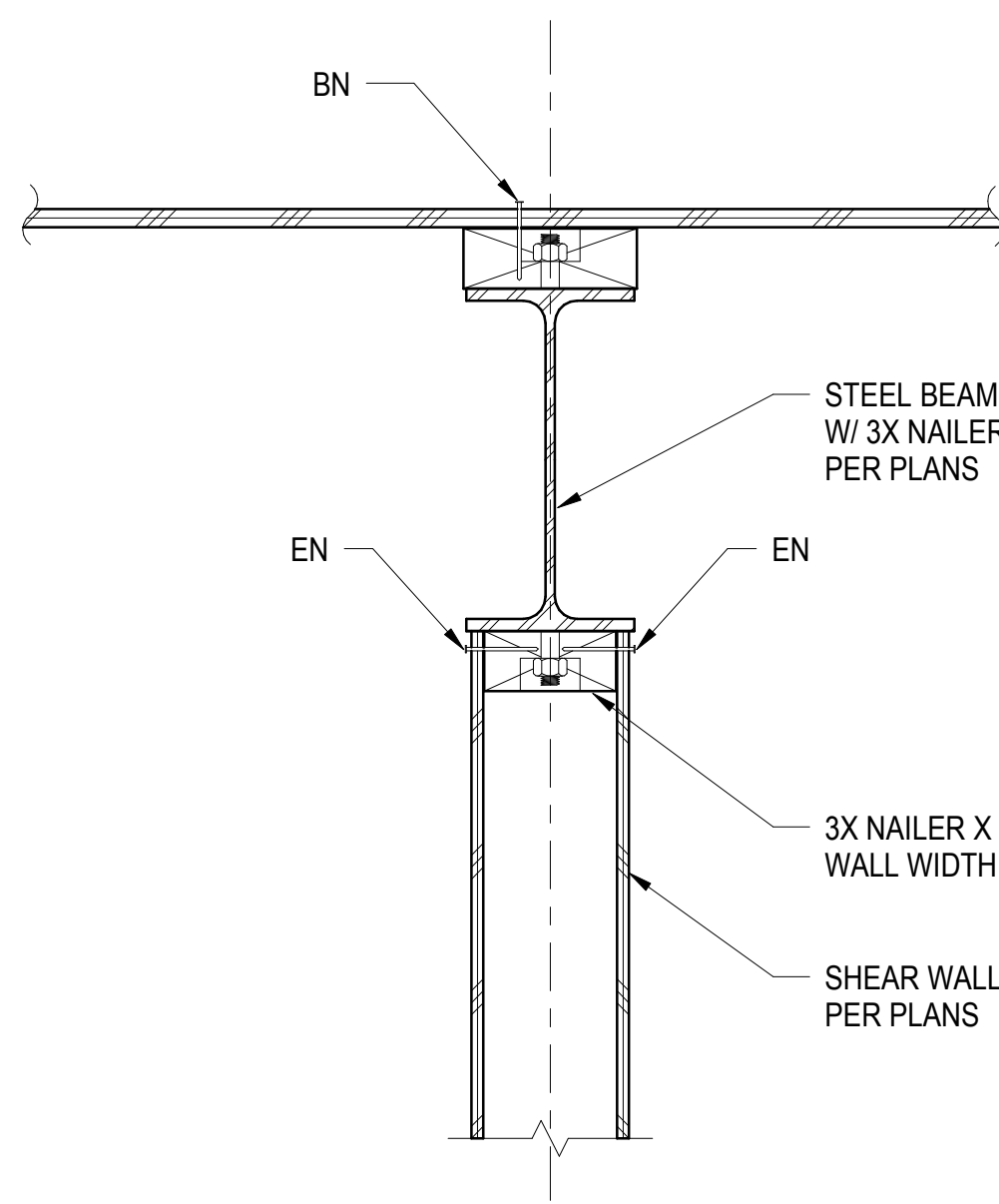
3 WALL INTERSECTIONS



POST SCHEDULE		
PLAN DESIGNATION	POST SIZE	COMMENTS
P4	4x4	
P6	6x6	
P8	8x8	
P8a	6x8	
P10	10x10	

- NOTES:
- SEE HOLDOWN SCHEDULE FOR ADDITIONAL POST REQUIREMENTS.
 - SEE GENERAL NOTES FOR REQUIRED LUMBER GRADING.
 - SEE PLAN FOR POST LOCATIONS.

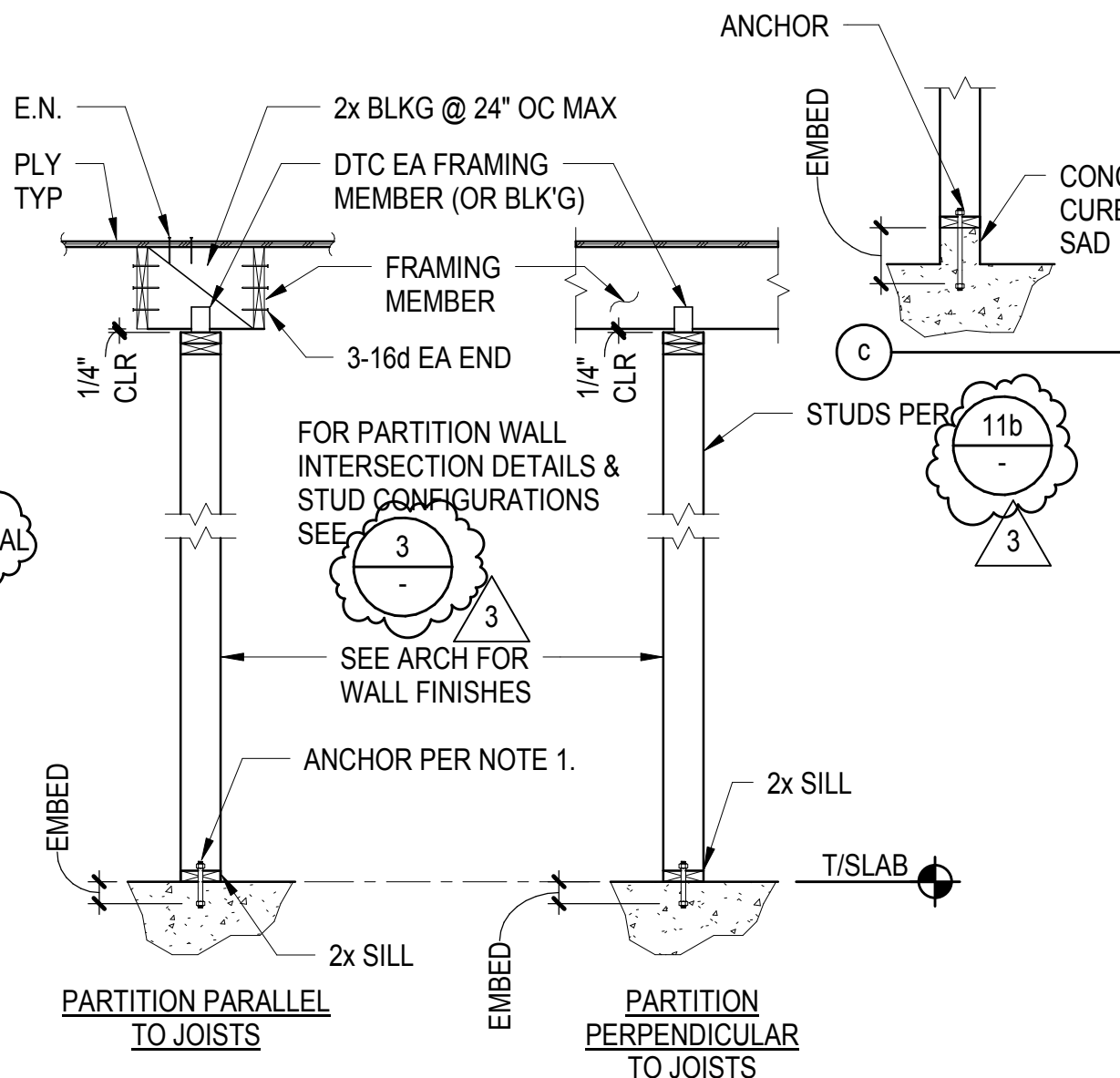
5 WALL OPENING



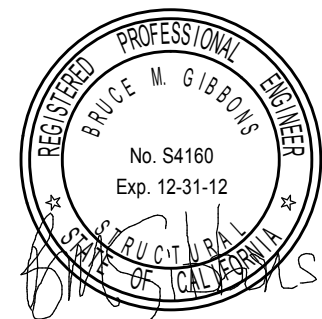
4 SHEAR WALL AT STEEL BEAM

2 POST SCHEDULE

- NOTES:
1. AT CONTRACTOR'S OPTIONS ANCHOR IS A) 5/8"Ø A.B. @ 4'-0" OC W/ 3" EMBED; B) 5/8"Ø SCREW ANCHOR @ 4'-0" OC PER GENERAL NOTES; C) PAF W/ 1 3/8" PENETRATION INTO CONC @ 2'-8" OC PER GENERAL NOTES.
2. SEE DETAIL 12 ON THIS SHEET FOR TYPICAL WALL FRAMING. SEE DETAIL 8 ON THIS SHEET FOR FRAMING SCHEDULE AT OPENINGS.
3. FOR CURB CONDITION SEE DETAIL 3.



1 NON-BEARING WALL PARTITION



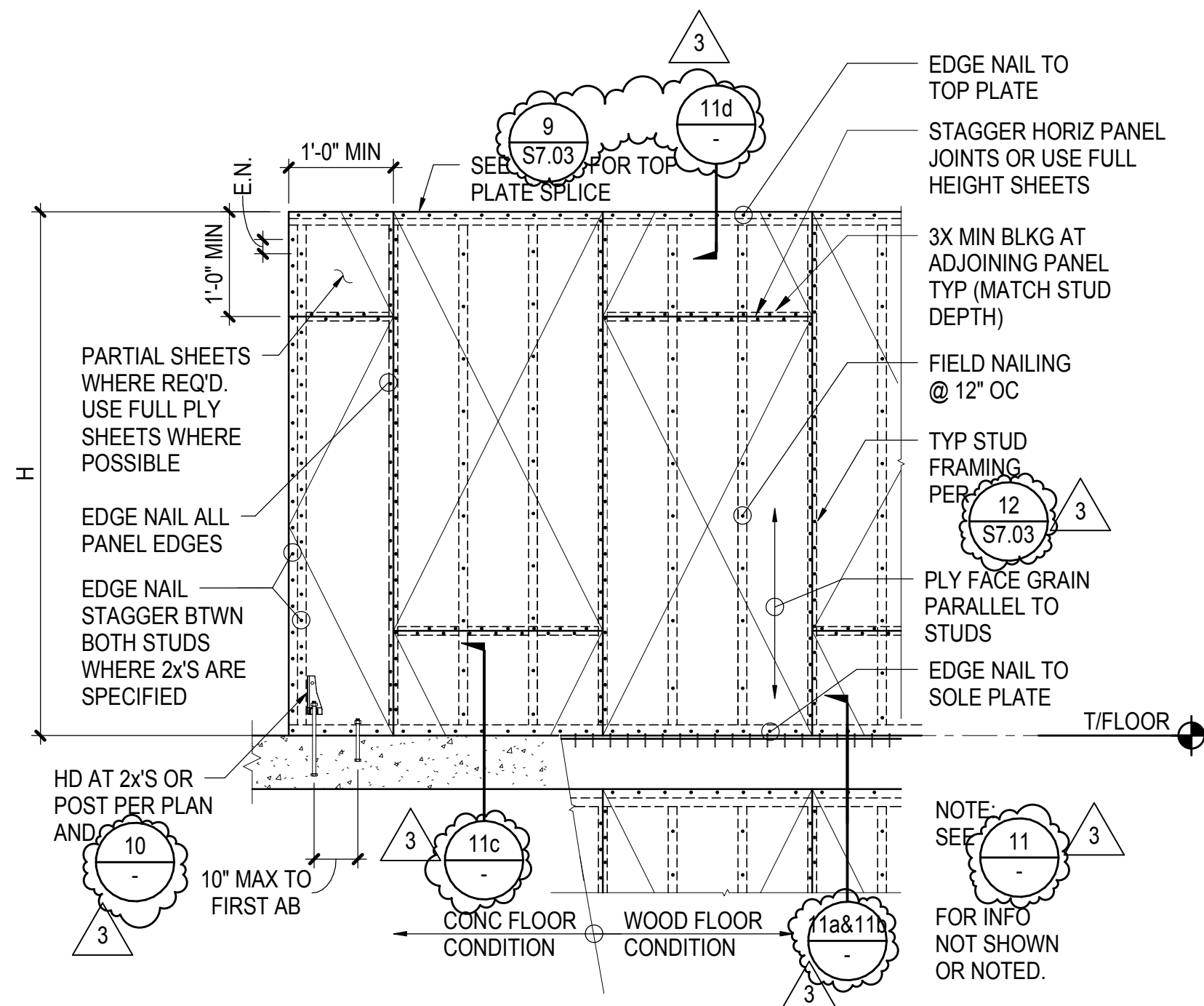
Thornton Tomasetti

Thornton Tomasetti, Inc.
6080 Center Drive, Suite 260
Los Angeles CA 90045-9204
T 310.665.0010 F 310.665.0101



1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL: (310) 458-2205
FAX: (310) 399-1541
architecture@smgov.net

NO.	DATE	BY	DESCRIPTION
1	07/16/12		BULLETIN 1
2	09/20/12		PLAN CHECK 2
3	09/07/12		PLAN CHECK 1



12 SHEARWALL ELEVATION

3/8" = 1'-0"

BEARING WALL STUD SCHEDULE						
DETAIL CONDITION						
	a	b	c	d	e	
SHEARWALL SYMBOL (1) (2)	SOLE PLATE NAILING	SOLE PLATE SIZE	SHEAR CLIP	ANCHOR BOLT	MUD SILL	SHEARWALL CAPACITY (lbs/in)
6(4)	-	-	-	3/4"DIA @ 4'-0"OC	2x A35 @ 12" OC	340
4(4)	-	-	-	3/4"DIA @ 4'-0"OC	3x A35 @ 8" OC	510
4(4)(3)(4)	-	-	-	3/4"DIA @ 2'-0"OC	3x A35 @ 8" OC EA SIDE	1020

NOTES:

- USE 10d (2 1/8" LONG) COMMON WIRE NAILS UON
- NUMBER SHOWN IN SYMBOL REPRESENTS PLYWOOD PANEL EDGE NAIL SPACING IN INCHES.
- DENOTES PLYWOOD ON BOTH SIDES OF WALL.
- PROVIDE 3x FRAMING MEMBERS AT ALL PLYWOOD ADJOINING PANEL EDGES. STAGGER NAILS ON EACH SIDE OF STUD WHERE PLYWOOD IS ON BOTH SIDES. PROVIDE 1/2" MIN EDGE DISTANCE FROM PANEL EDGES AND 1/2" MIN EDGE DISTANCE OF CONNECTING MEMBERS.
- USE LTP4 AS ALTERNATE TO A35 UON
- SEE DETAIL 10S7.03 FOR ANCHOR BOLT AND SILL DETAIL.
- PILOT DRILL HOLES FOR SOLE PLATE NAILING OR BOLTING.
- NAILS INTO PRESSURE TREATED MUD SILL SHALL BE GALVANIZED.
- SEE DETAIL 12S7.03 FOR TYPICAL SHEAR WALL FRAMING ELEVATION.
- SEE PLAN AND DETAIL 10S7.03 FOR SHEAR WALL HOLDOWNS.

11 SHEARWALL SCHEDULE

1" = 1'-0"

HOLDOWN (1)(2)(3)	POST SIZE UON	MIN ANCHOR ROD DIA	MIN ANCHOR ROD EMBED
HDU2-SD2.5	2-2x SW	5/8"	9"
HDU4-SD2.5	2-2x SW	5/8"	9"
HDU5-SD2.5	3-2x SW	5/8"	9"
HDU8-SD2.5	3-2x SW	7/8"	12"
HDU11-SD2.5	4-2x SW	1"	12"
HDU14-SD2.5	5-2x SW	1"	12"

SW = STUD WIDTH

NOTES:

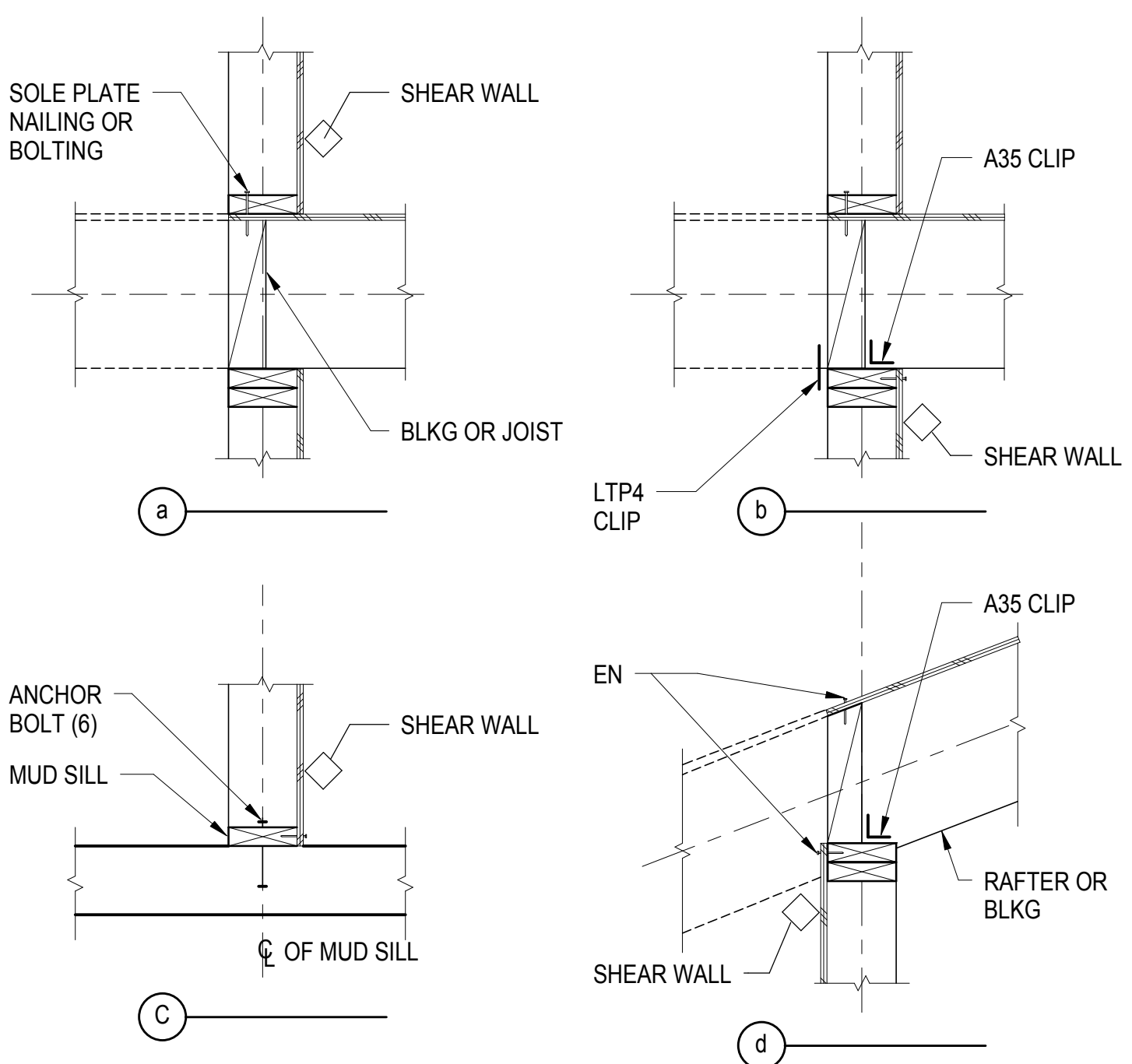
- SEE PLAN FOR SIZES & LOCATIONS OF HOLDOWNS.
- FOR HD AT WALL INTERSECTIONS SEE 3 & 6
- FOLLOW ALL MANUFACTURER'S GUIDELINES NECESSARY TO ACHIEVE FULL ICC DESIGN VALUES.
- AT MULTIPLE 2x HOLDOWN POST CONDITION, INTERNAL STUDS W/ STAGGERED 16d @ 6" OC, UON

10 SHEARWALL HOLDOWNS INTO FOUNDATION

1 1/2" = 1'-0"

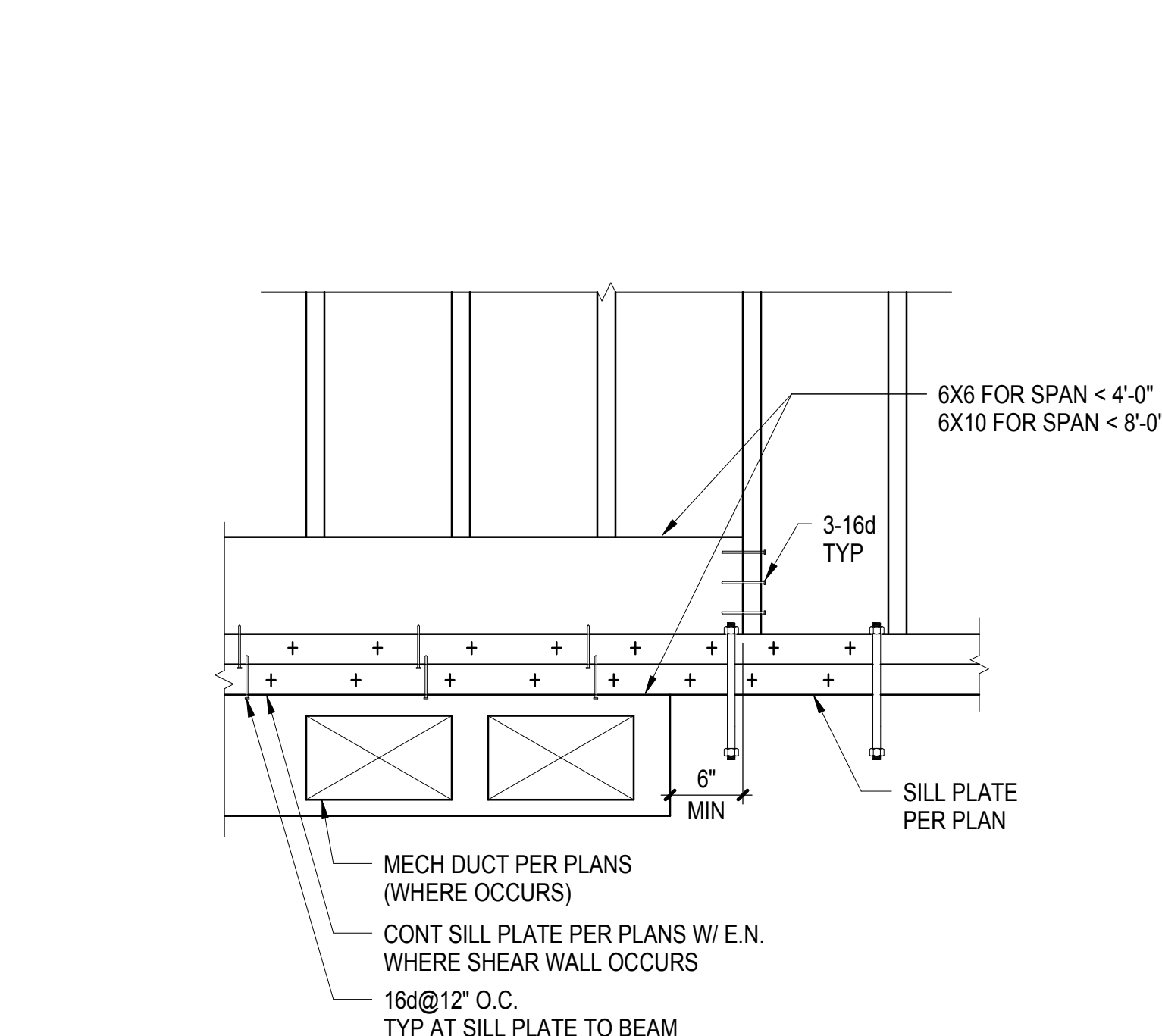
9 BEAM AND POST CONNECTION AT WALL

1" = 1'-0"



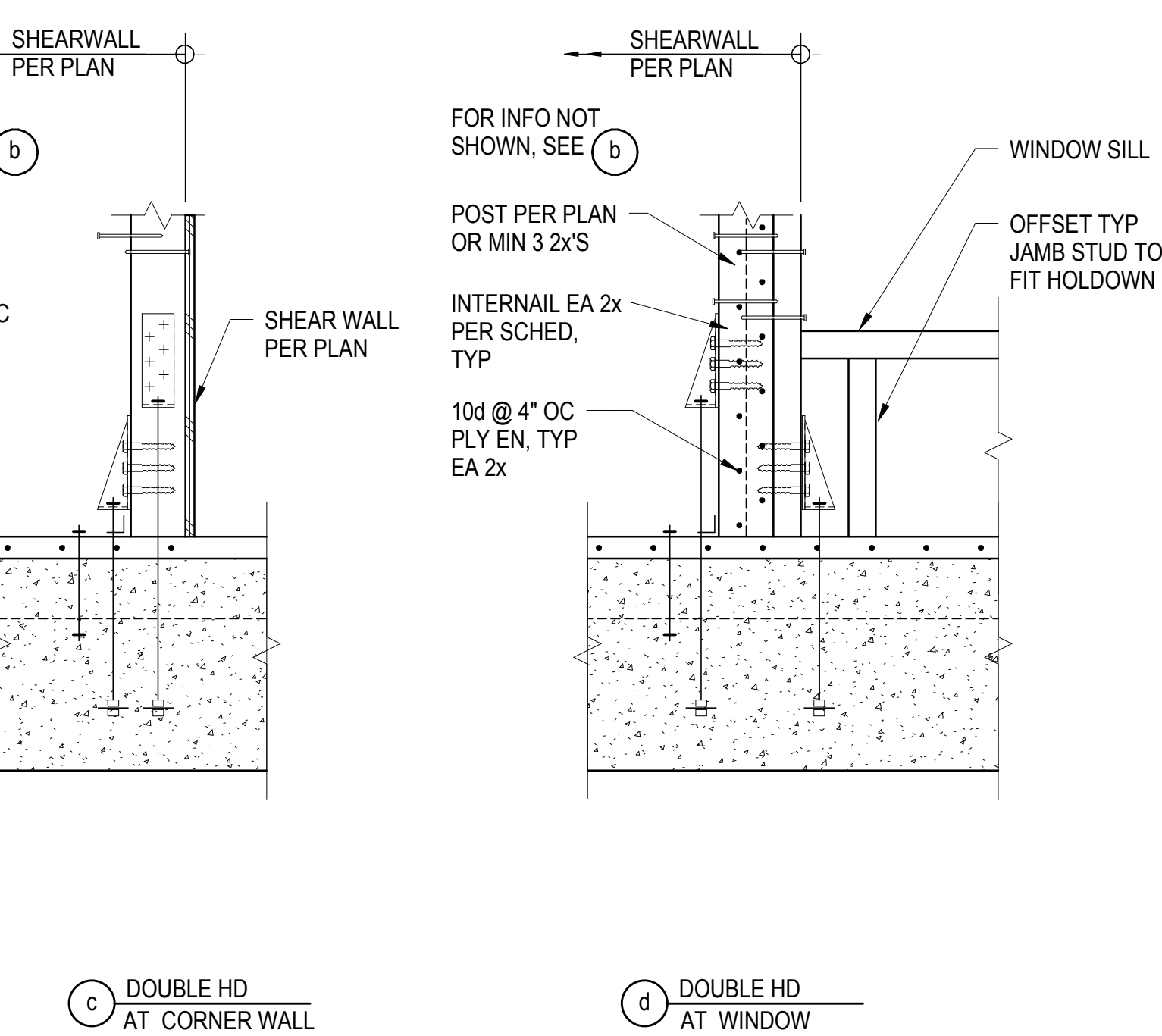
6 SHEARWALL INTERSECTIONS

1" = 1'-0"



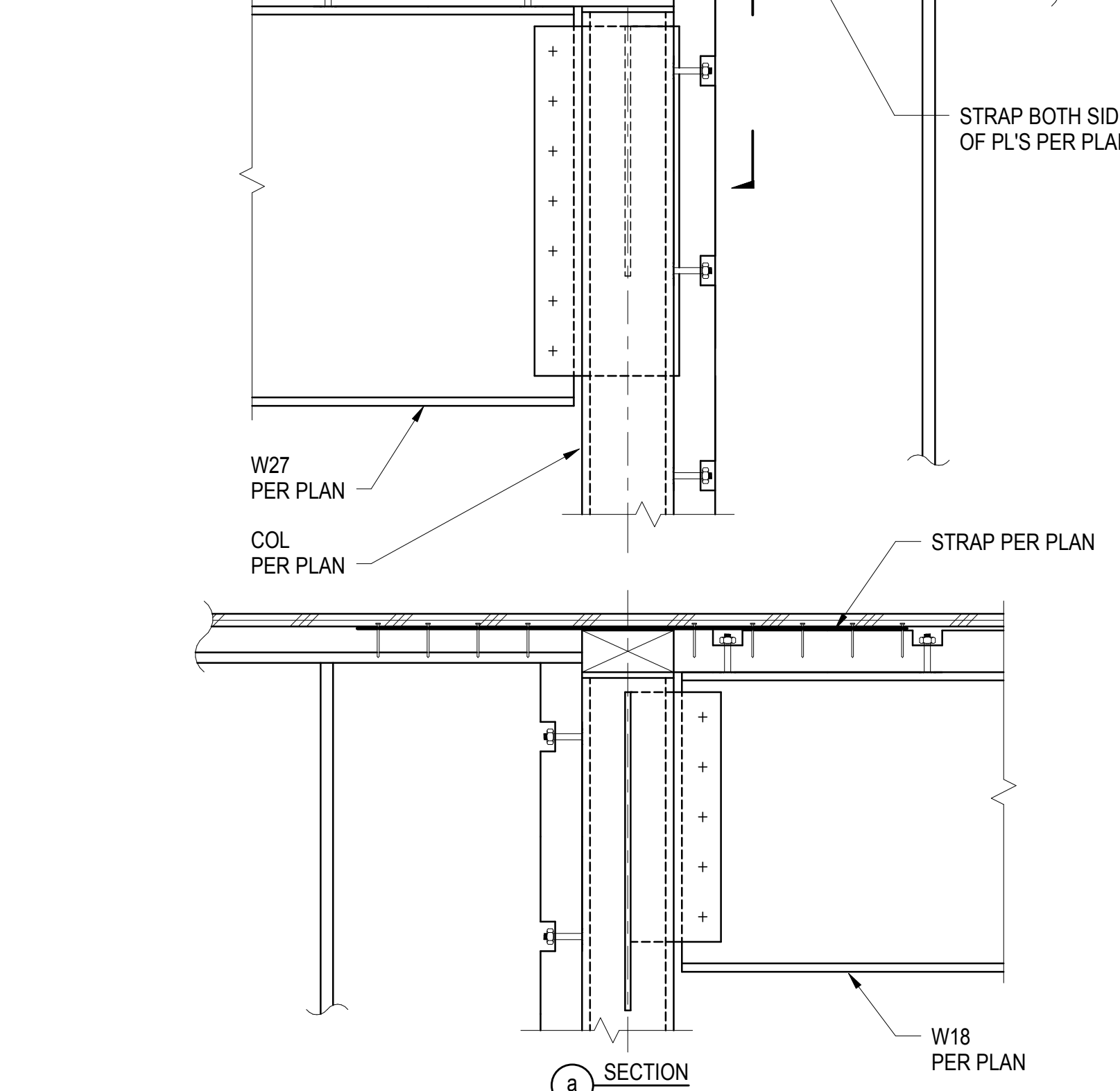
5 DUCT BELOW SHEARWALL

1" = 1'-0"



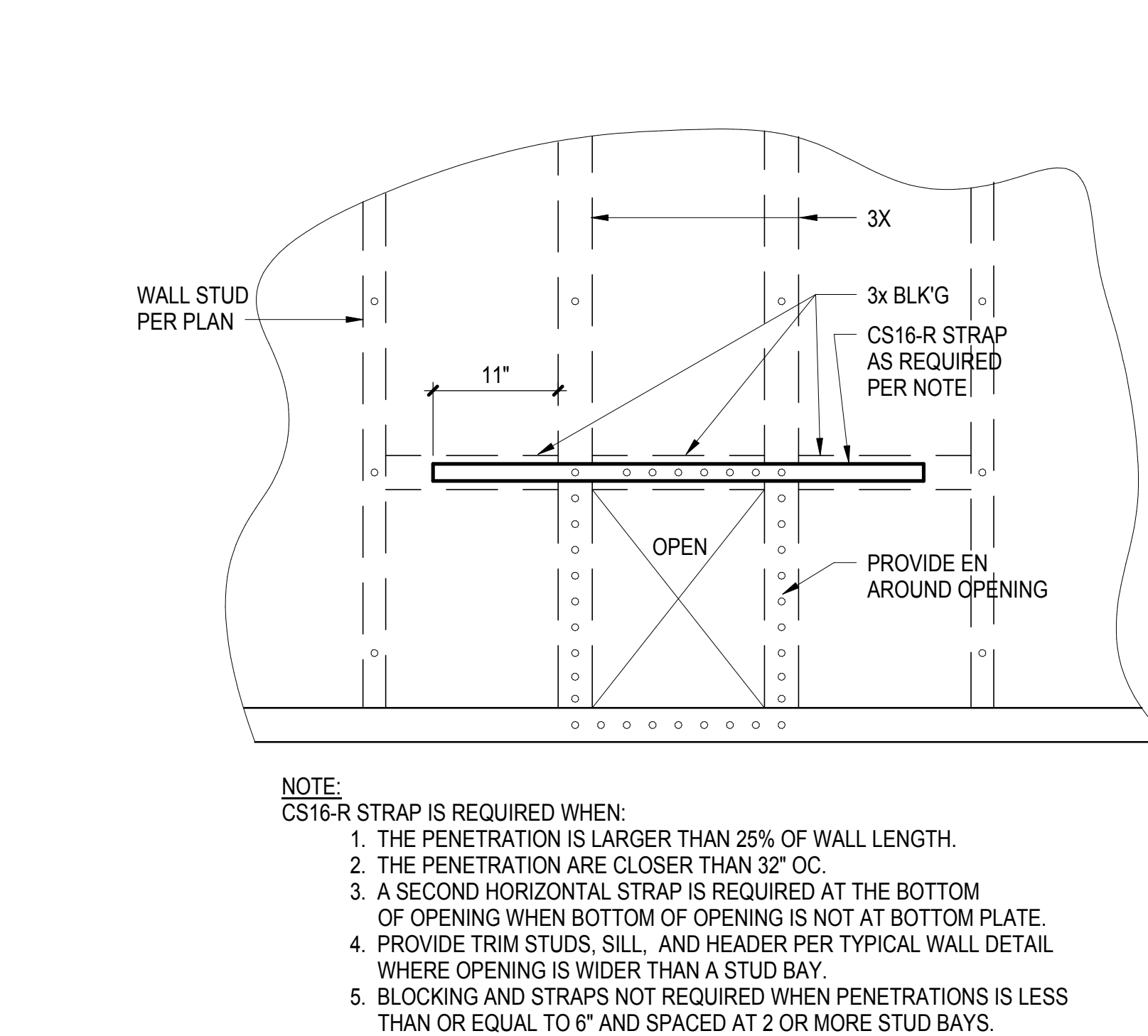
3 NAILER AT HSS COLUMN

1" = 1'-0"



2 DRAG STRAP AT SHEAR WALL

1 1/2" = 1'-0"



NOTE:

- CS16-R STRAP IS REQUIRED WHEN:
- THE PENETRATION IS LARGER THAN 25% OF WALL LENGTH.
 - THE PENETRATION ARE CLOSER THAN 32" OC.
 - A SECOND HORIZONTAL STRAP IS REQUIRED AT THE BOTTOM OF OPENING WHEN BOTTOM OF OPENING IS NOT AT BOTTOM PLATE.
 - PROVIDE TRIM STUDS, SILL, AND HEADER PER TYPICAL WALL DETAIL WHERE OPENING IS WIDER THAN A STUD BAY.
 - BLOCKING AND STRAPS NOT REQUIRED WHEN PENETRATIONS IS LESS THAN OR EQUAL TO 6" AND SPACED AT 2 OR MORE STUD BAYS.

1 TYPICAL SHEARWALL PENETRATION DETAIL

1" = 1'-0"

PROJECT

KoningEizenberg Architecture
1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com

ARCHITECT'S PROJECT NO.

1001

ARCHITECT

All designs, ideas, arrangements and plans indicated by these drawings are the property and copyright of the Architect and shall neither be used on any other work nor be disclosed to any other person for any use whatsoever without written permission.

Koning Eizenberg Architecture and/or its principals and employees waives any and all liability or responsibility for problems that may occur when these plans, drawings, specifications, and/or designs are followed without the professional's guidance with ambiguities, or conflicts which are alleged.



Thornton Tomasetti

Thornton Tomasetti, Inc.
6080 Center Drive, Suite 260
Los Angeles CA 90045-9204
T 310.665.0010 F 310.665.0101

CONSULTANT

City of Santa Monica
Architecture Services

1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL: (310) 458-2205
FAX: (310) 399-1541
architecture@smgov.net

DATE: 20

SUBMITTED BY:

DATE: 20

APPROVED BY:
Miriam Mulder
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
3	07/16/12		BULLETIN 1
	06/20/12		PLAN CHECK 2
	05/07/12		PLAN CHECK 1
2	02/21/12		ADDENDUM 2
1			

REVISIONS

ISSUE

100% CONSTRUCTION DOCUMENTS

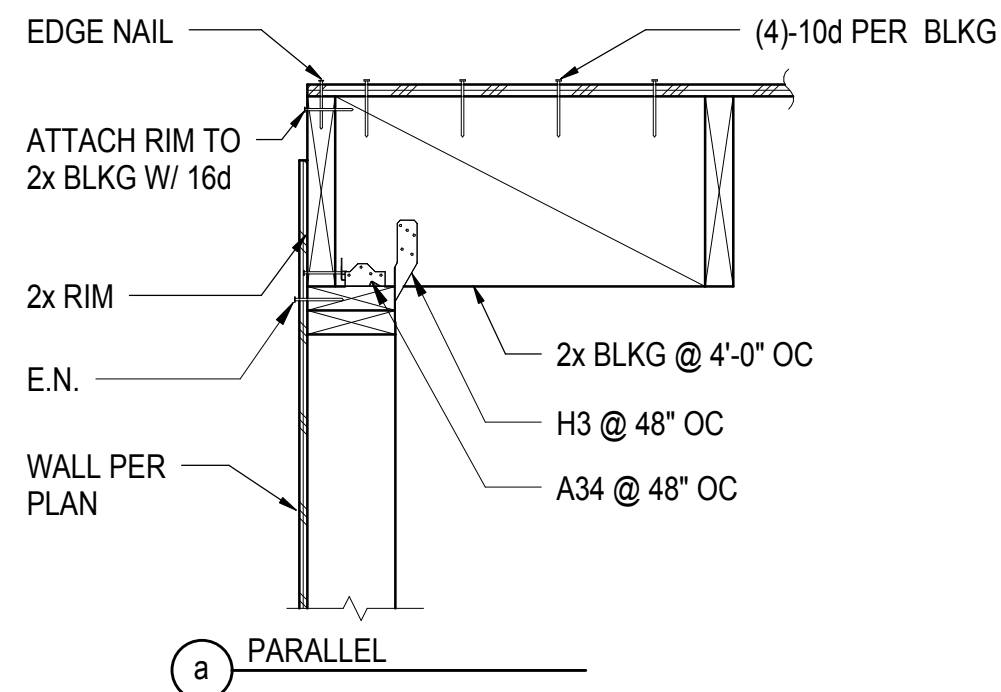
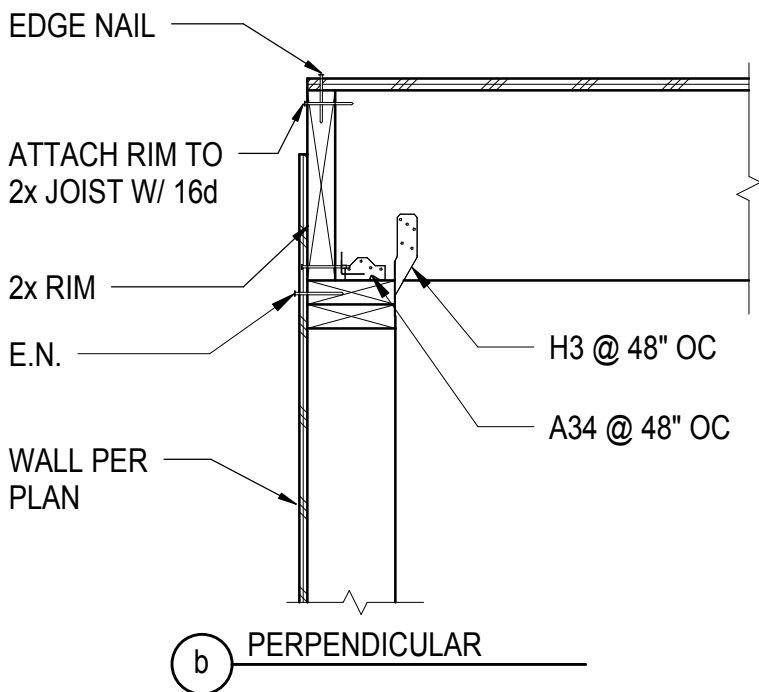
DATE: 07/16/2012

6693

SHEET TITLE:
**TYPICAL WOOD
SHEARWALL
DETAILS**

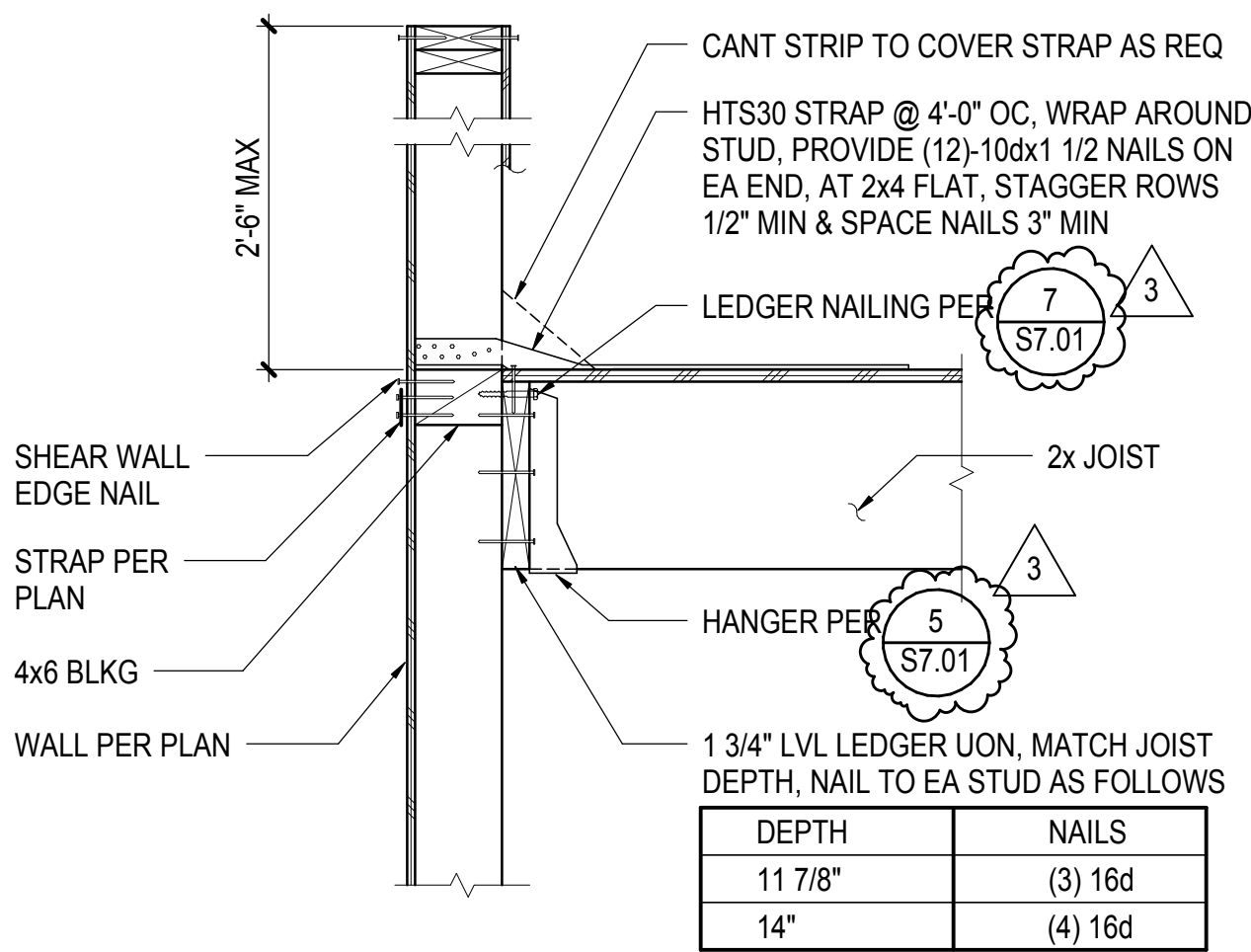
SHEET NO.

S7.04



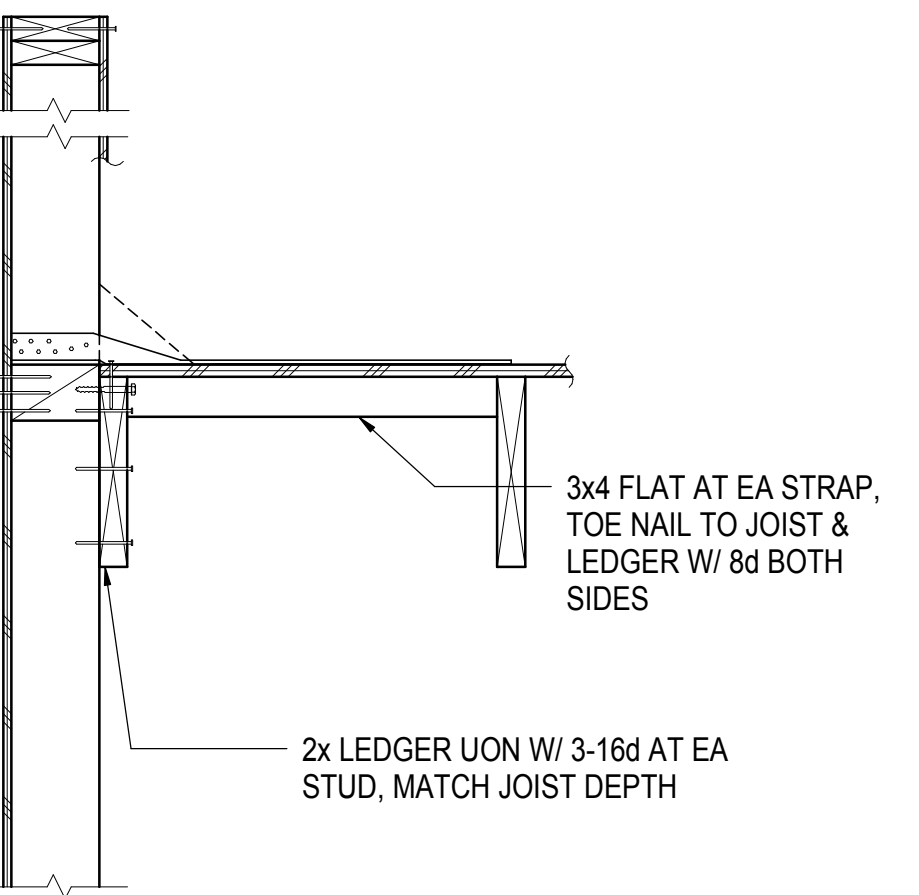
12 ROOF AT EXTERIOR WALL
1" = 1'-0"

- NOTES:
- WHERE JOIST DO NOT ALIGN WITH WALL STUDS, STRAP PER DETAIL 6
 - FOR WALLS WITH PLYWOOD SHEATHING ON LEDGER SIDE, SEE DETAIL 10

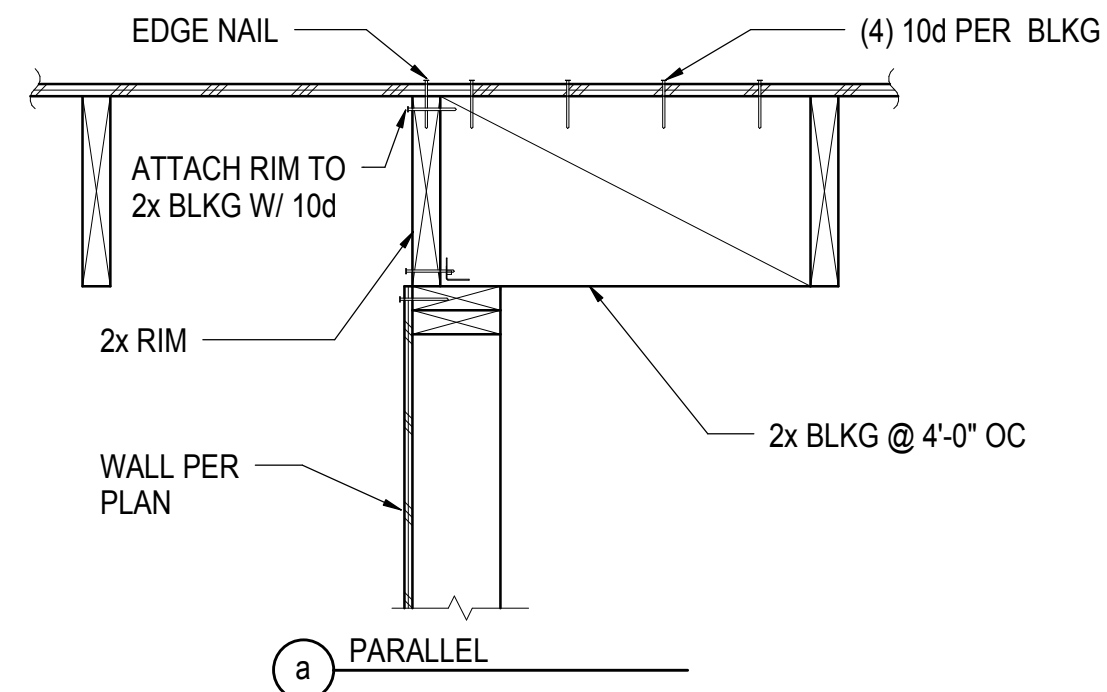
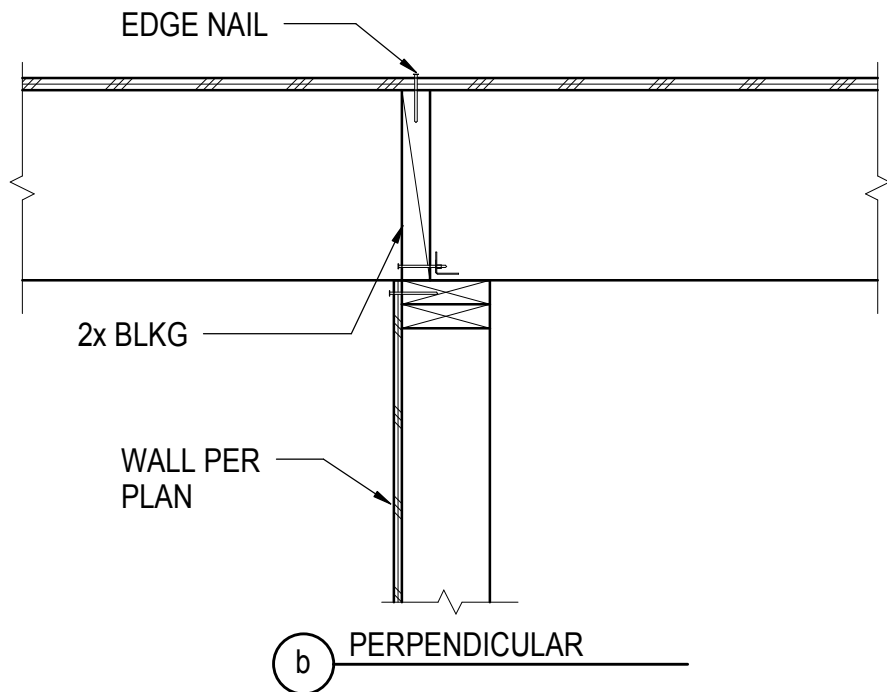


11 ROOF JOIST PERPENDUCULAR TO PARAPET WALL
1" = 1'-0"

- NOTE:
- FOR INFO NOT SHOWN OR NOTED, SEE 5

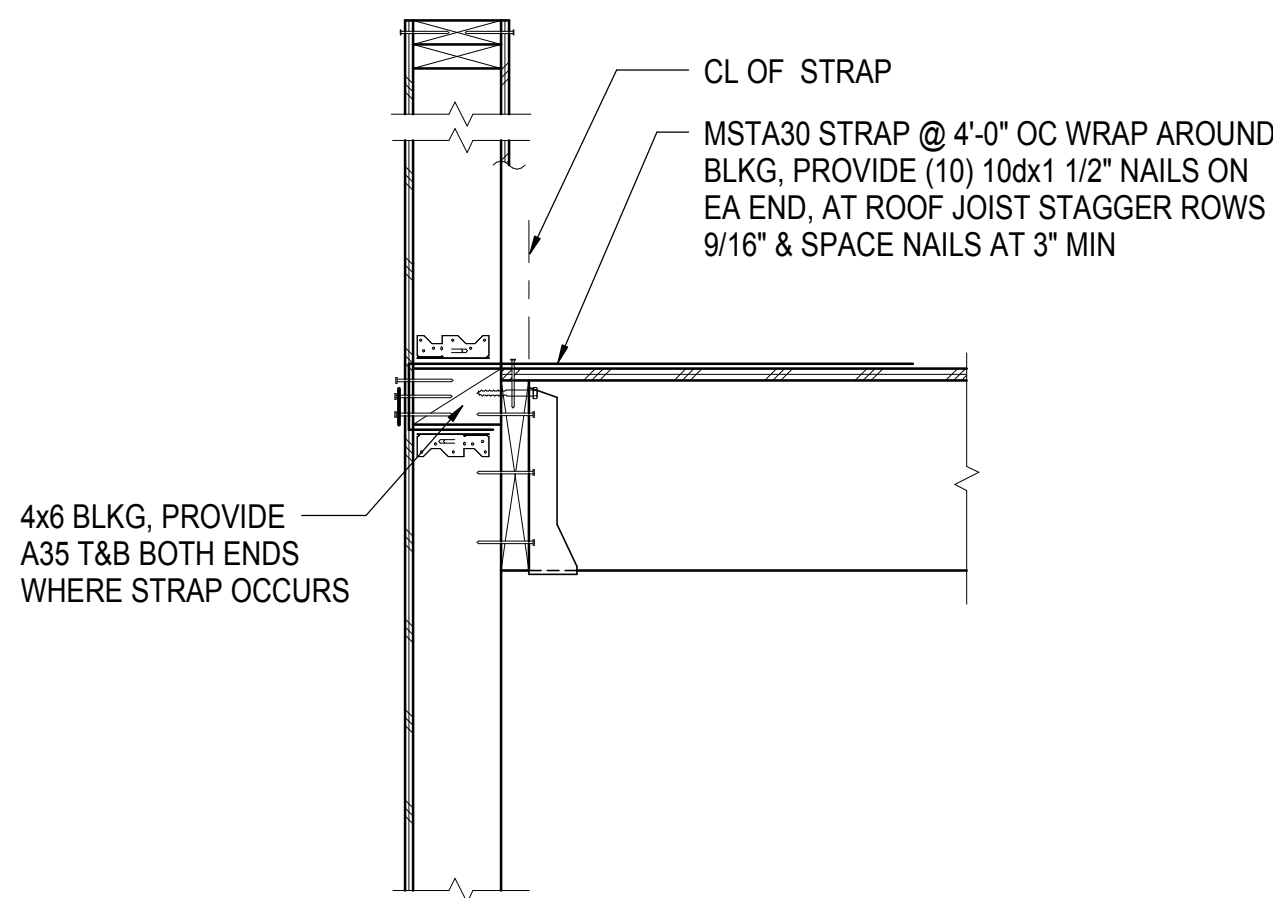


10 ROOF JOIST PARALLEL TO PARAPET WALL
1" = 1'-0"



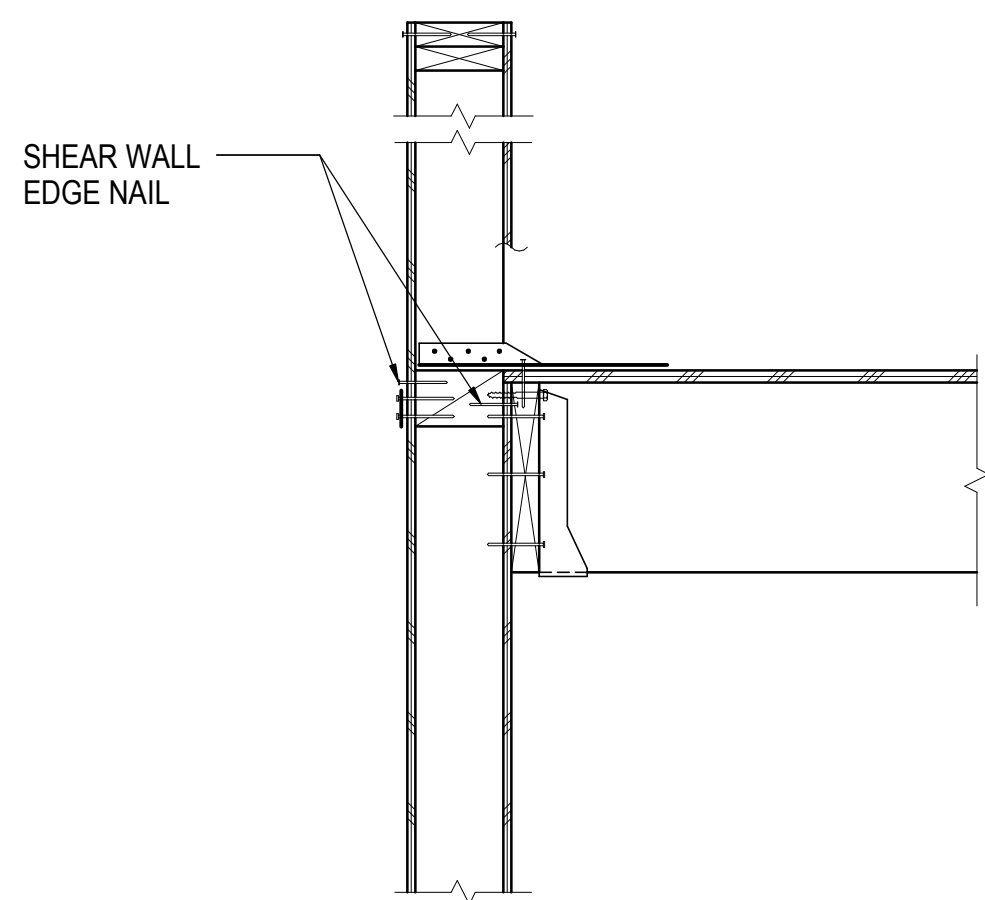
9 ROOF JOIST AT INTERIOR WALL
1" = 1'-0"

- NOTE:
- FOR INFO NOT SHOWN OR NOTED, SEE 5

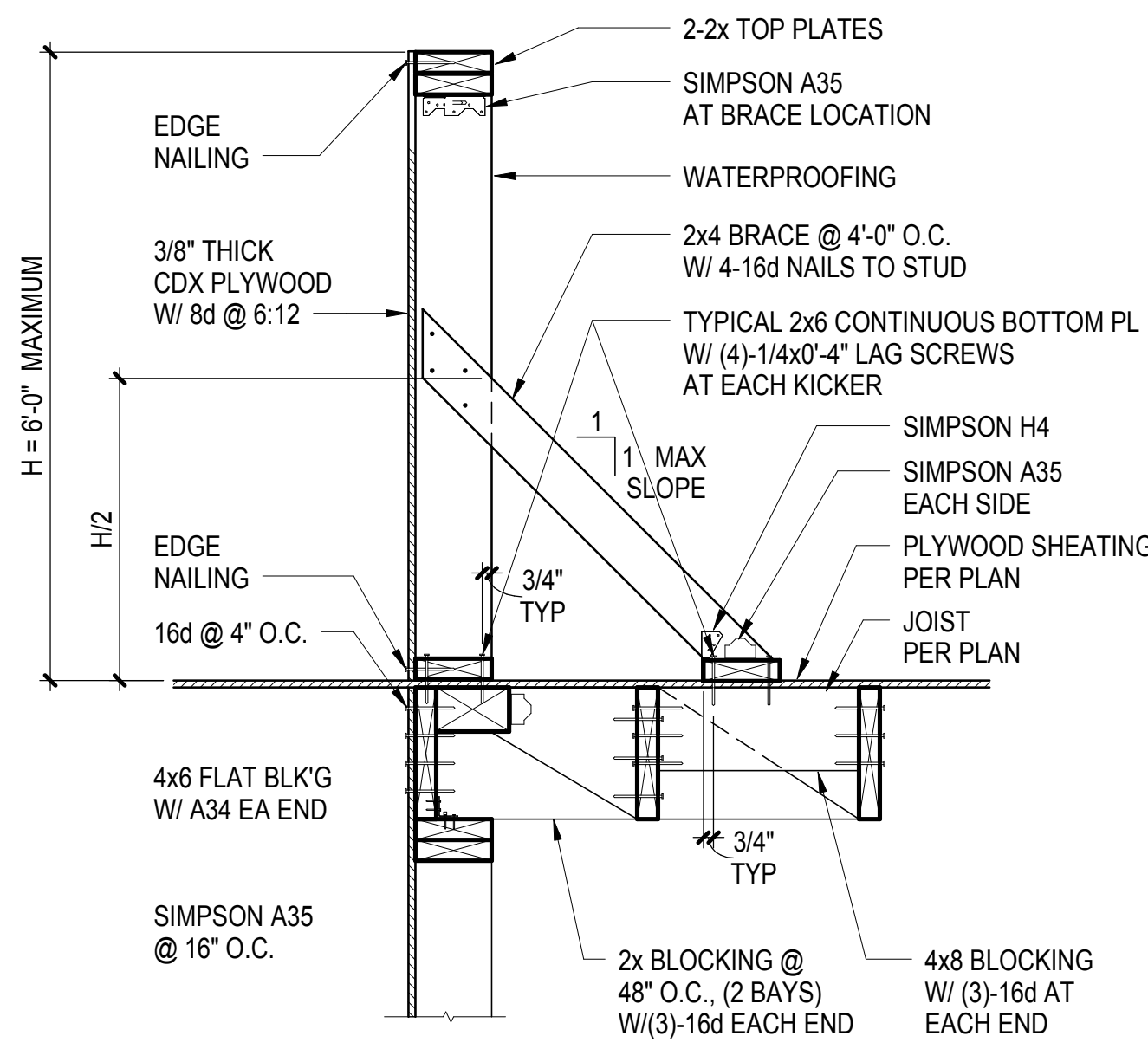


8 ROOF JOIST PERPENDUCULAR TO PARAPET WALL
1" = 1'-0"

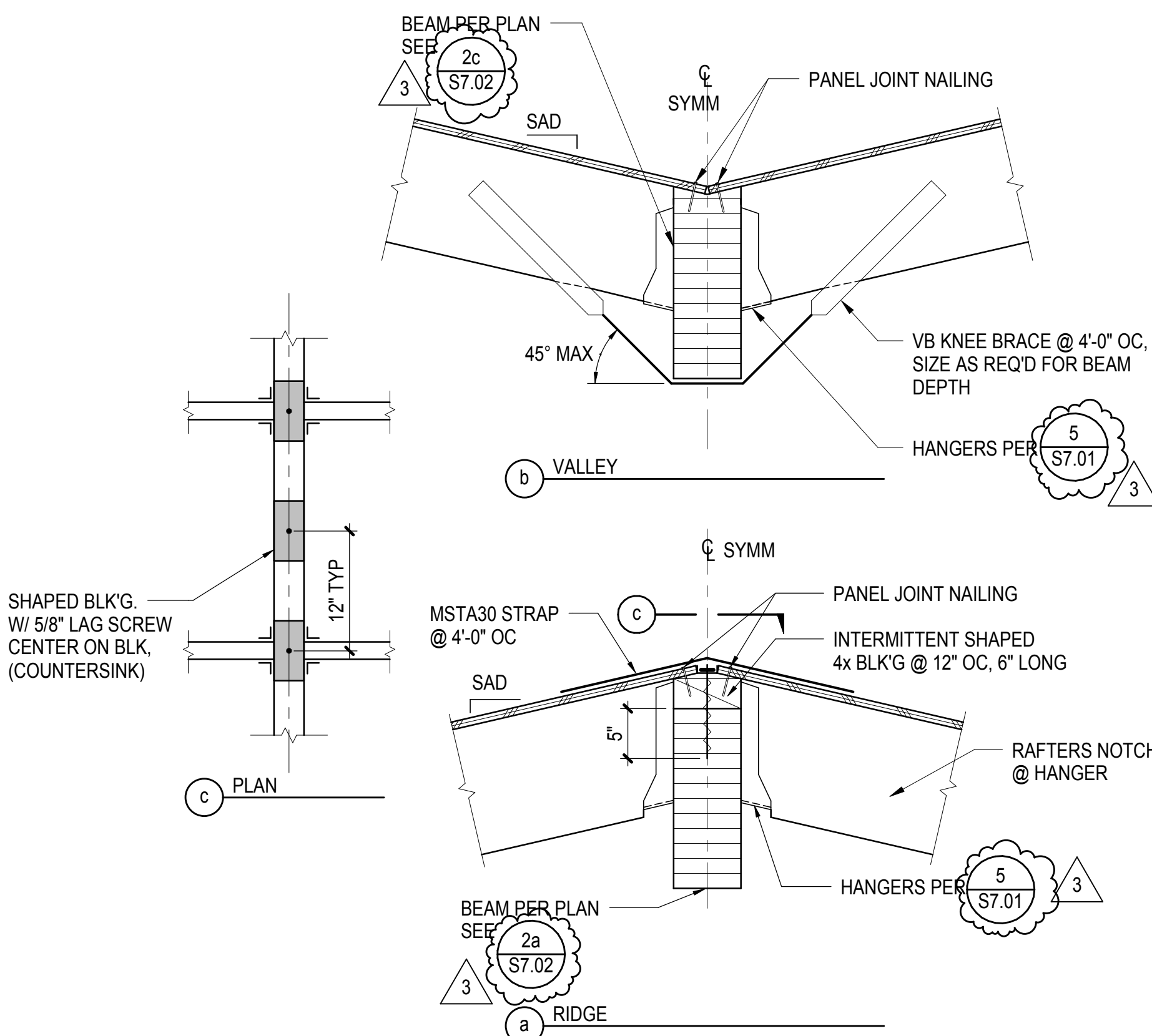
- NOTE:
- FOR INFO NOT SHOWN OR NOTED, SEE 5



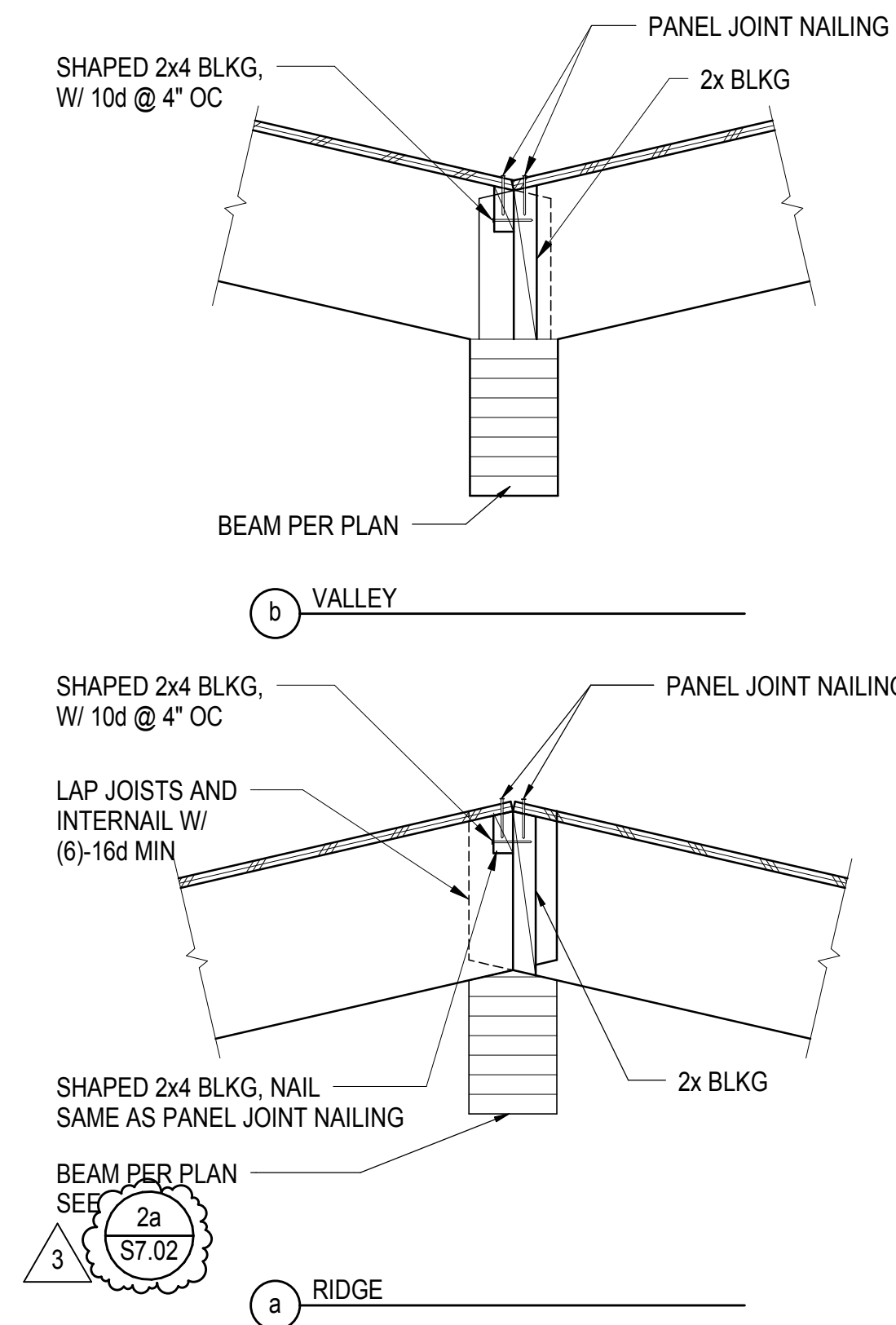
7 LEDGER AT PLYWOOD SHEATHING
1" = 1'-0"



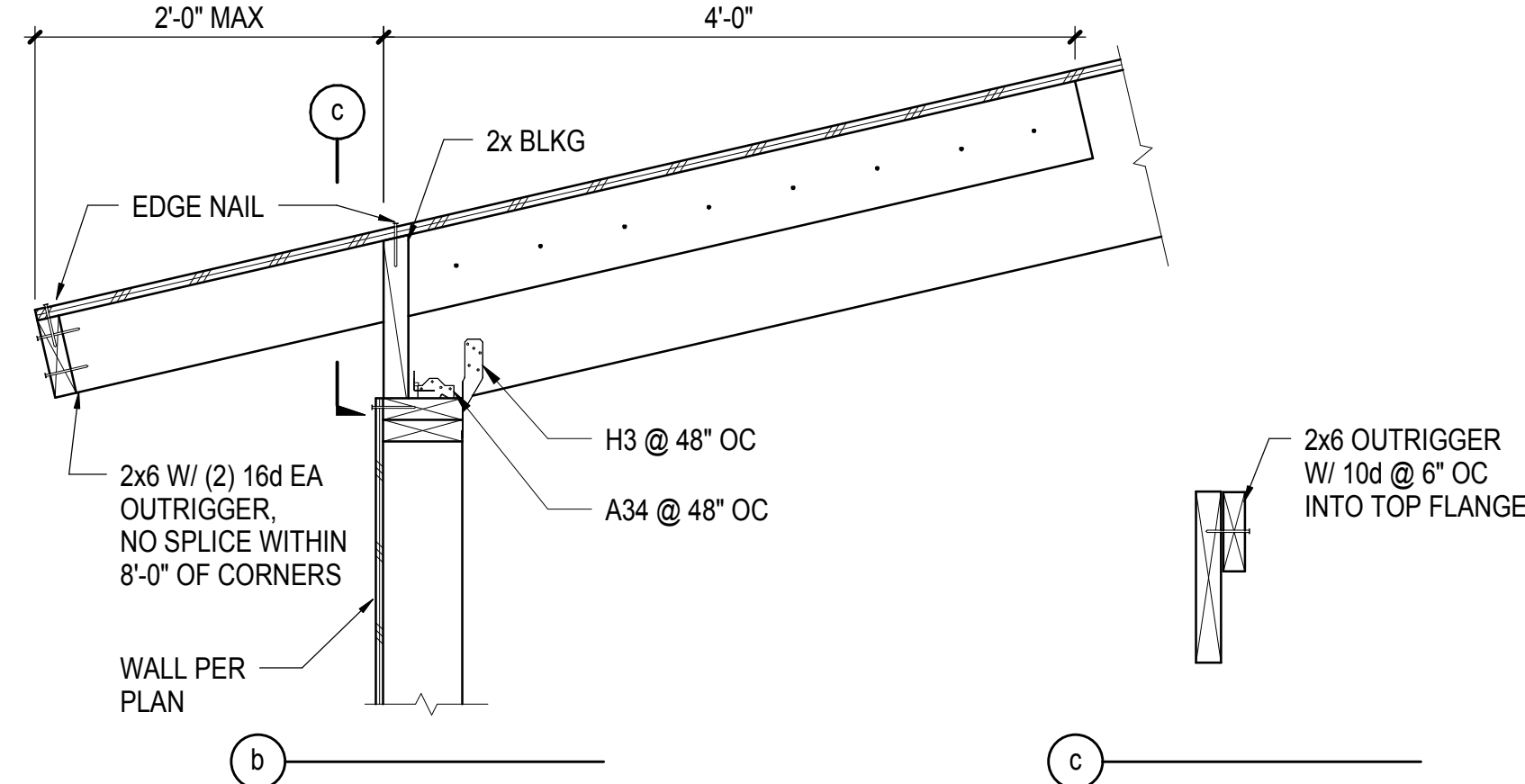
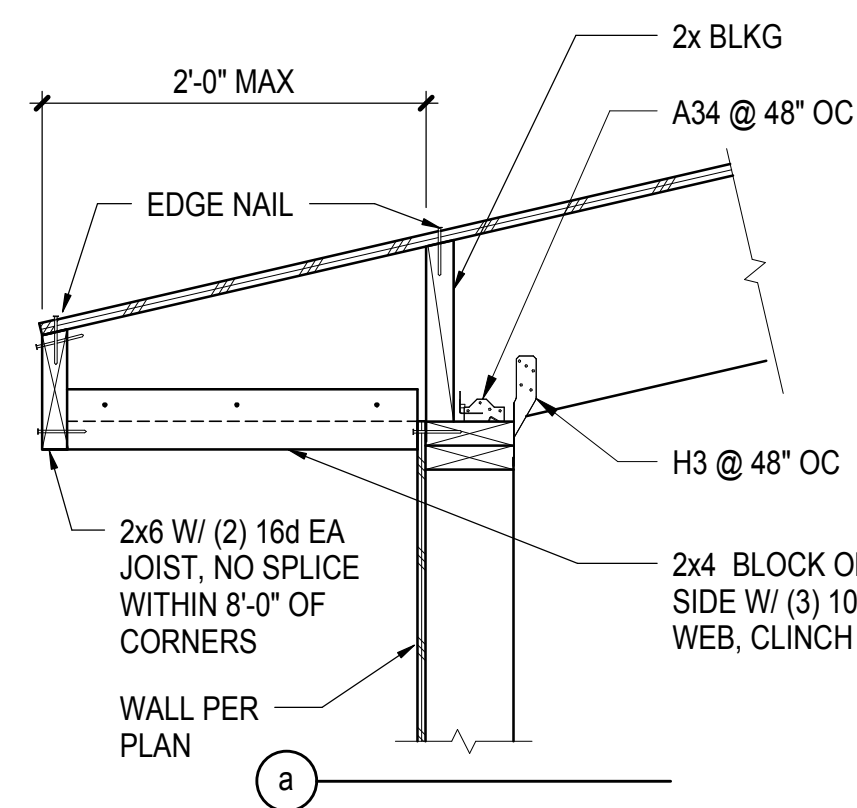
6 TYPICAL PARAPET DETAIL PARALLEL TO JOIST
1" = 1'-0"



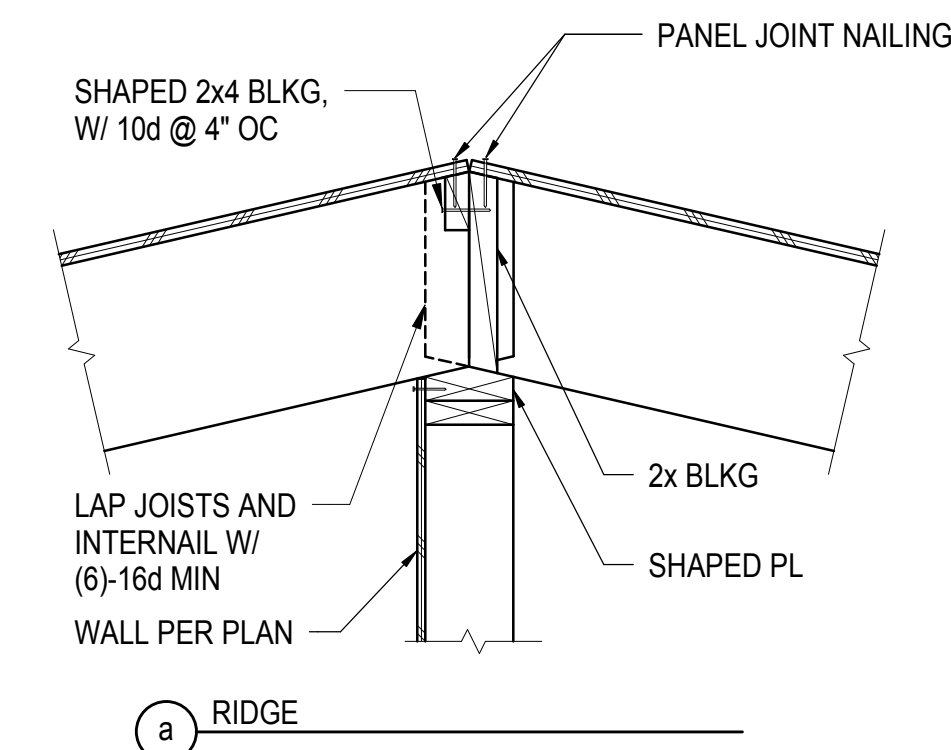
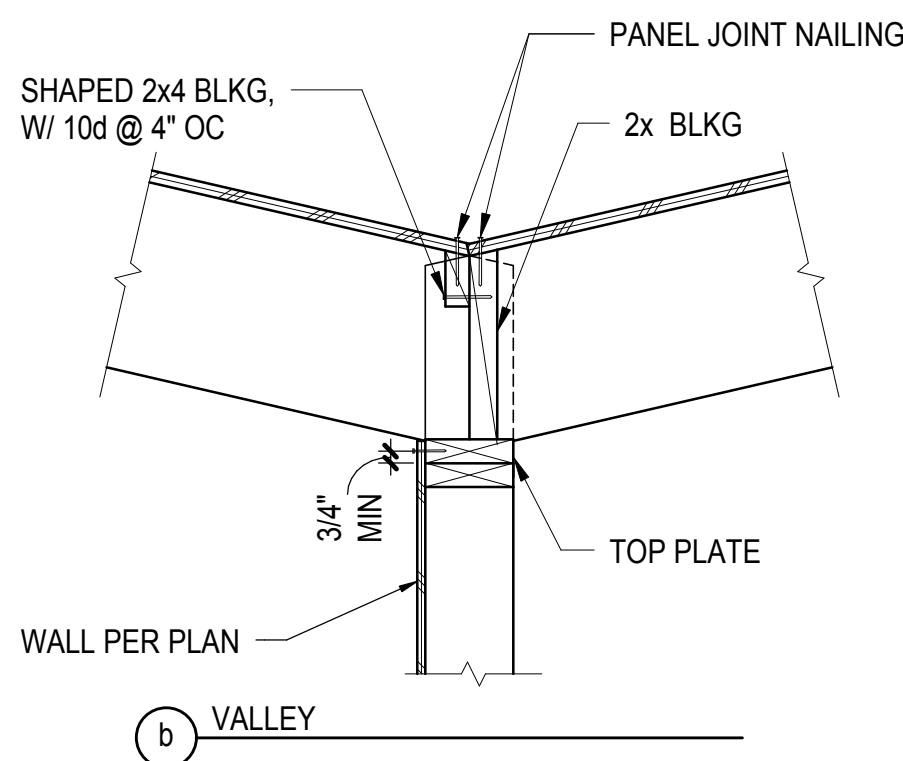
5 RIDGE / VALLEY AT BEAM
1" = 1'-0"



4 RIDGE / VALLEY AT BEAM
1" = 1'-0"



2 ROOF JOIST AT EAVE
1" = 1'-0"



1 RIDGE AT WALL
1" = 1'-0"



Thornton Tomasetti

Thornton Tomasetti, Inc.
6080 Center Drive, Suite 260
Los Angeles CA 90045-9204
T 310.665.0010 F 310.665.0101

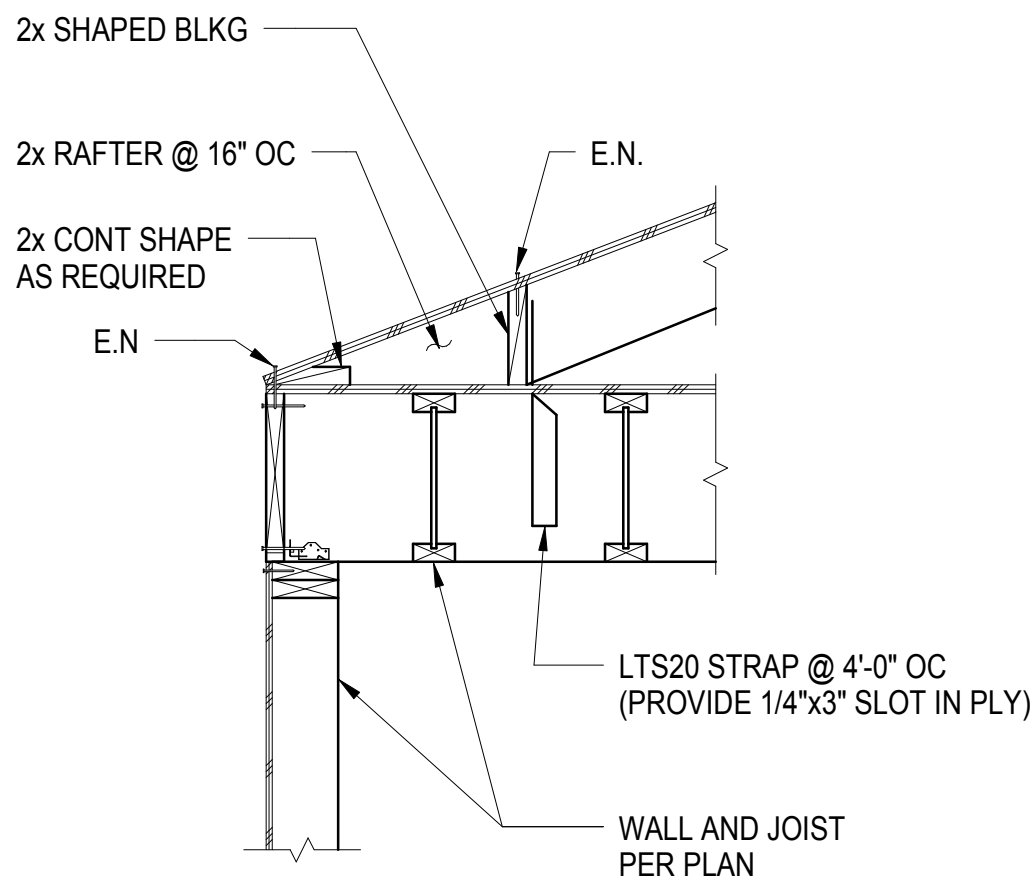


1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL: (310) 458-2205
FAX: (310) 399-1541
architecture@smgov.net

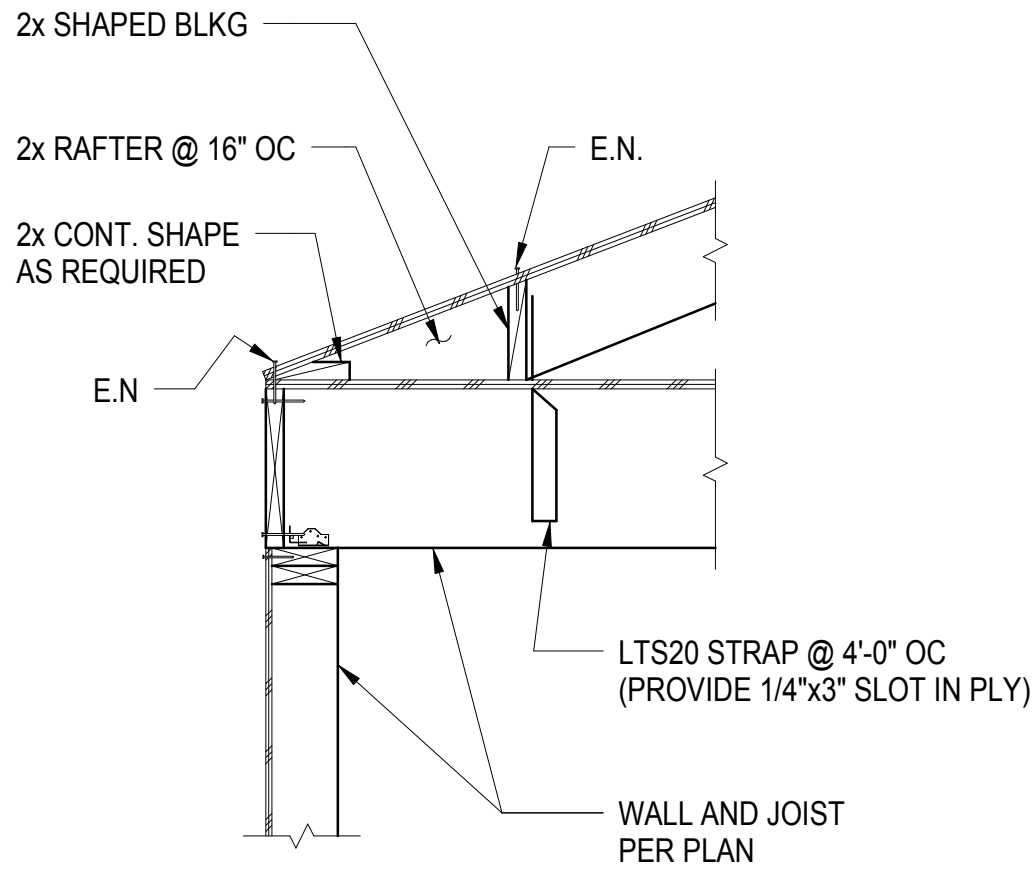
NO.	DATE	BY	DESCRIPTION
1	07/16/12		BULLETIN 1
2	09/20/12		PLAN CHECK 2
3	05/07/12		PLAN CHECK 1

File Path: C:\Users\mduchomsk\Documents\Projects\Pico Branch Library\TT-151602-PICO BRANCH LIBRARY-Local.rvt
ON: 7/13/2012 4:19:08 PM

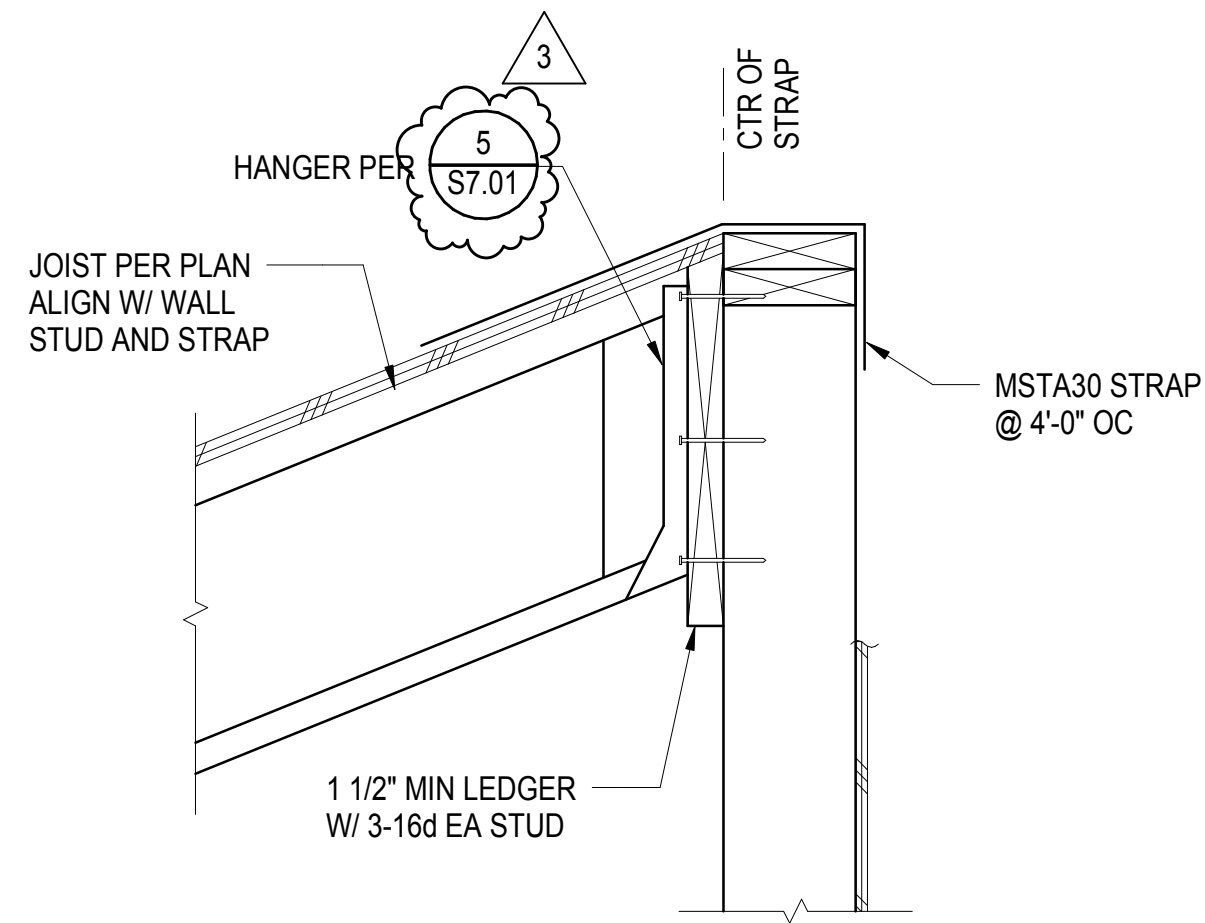
DWG. NO.: SHEET OF



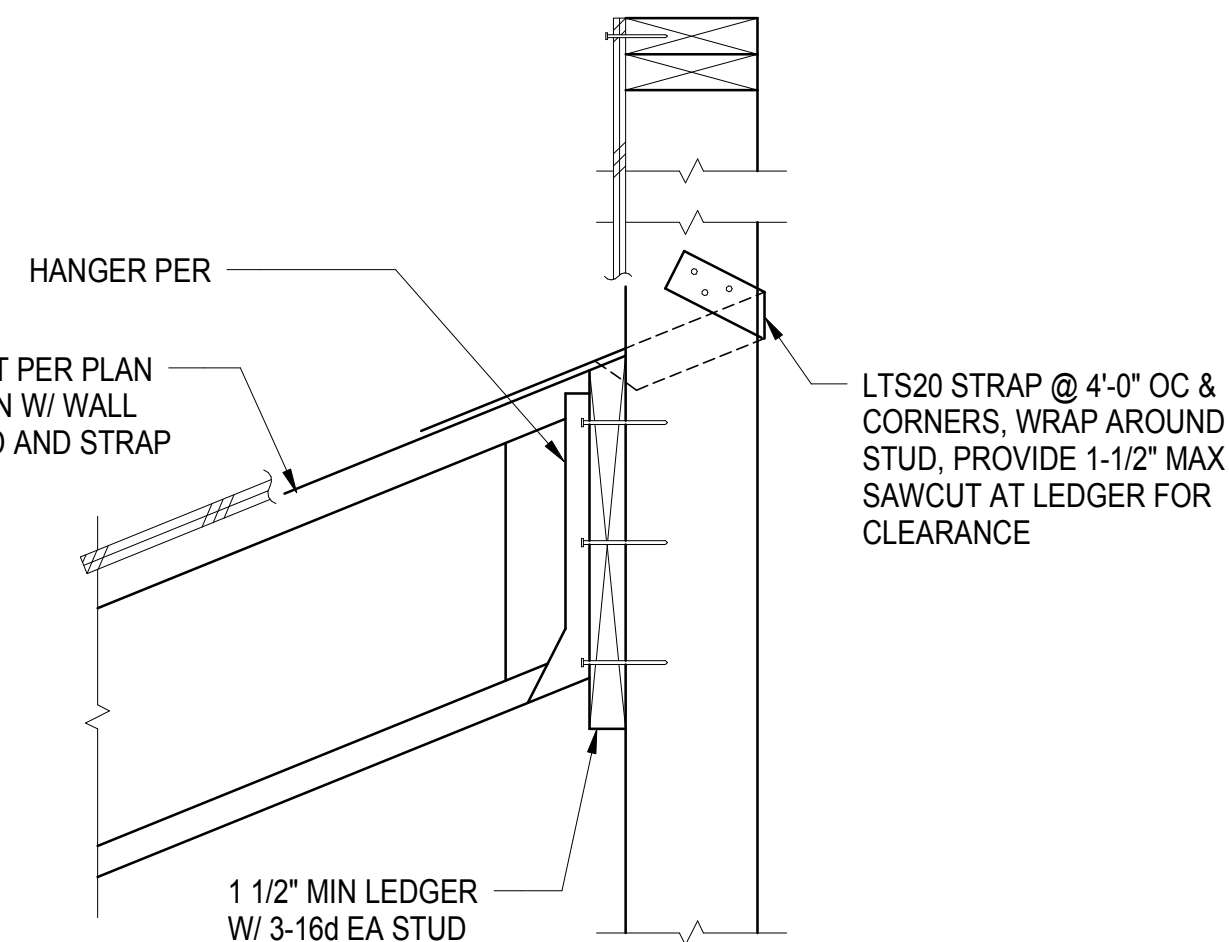
12 CALIFORNIA FRAMING WITH JOIST PERPENDICULAR
3/4" = 1'-0"



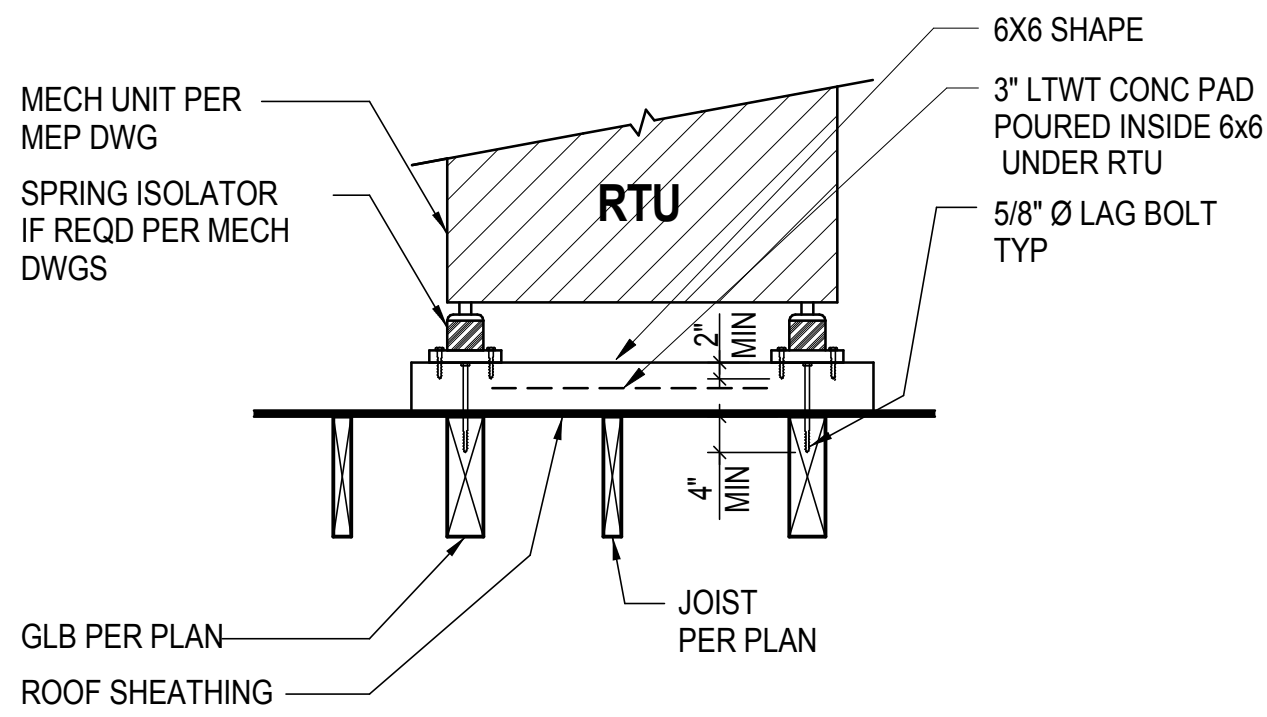
9 CALIFORNIA FRAMING WITH JOIST PARALLEL
3/4" = 1'-0"



11 ROOF LEDGER
1 1/2" = 1'-0"

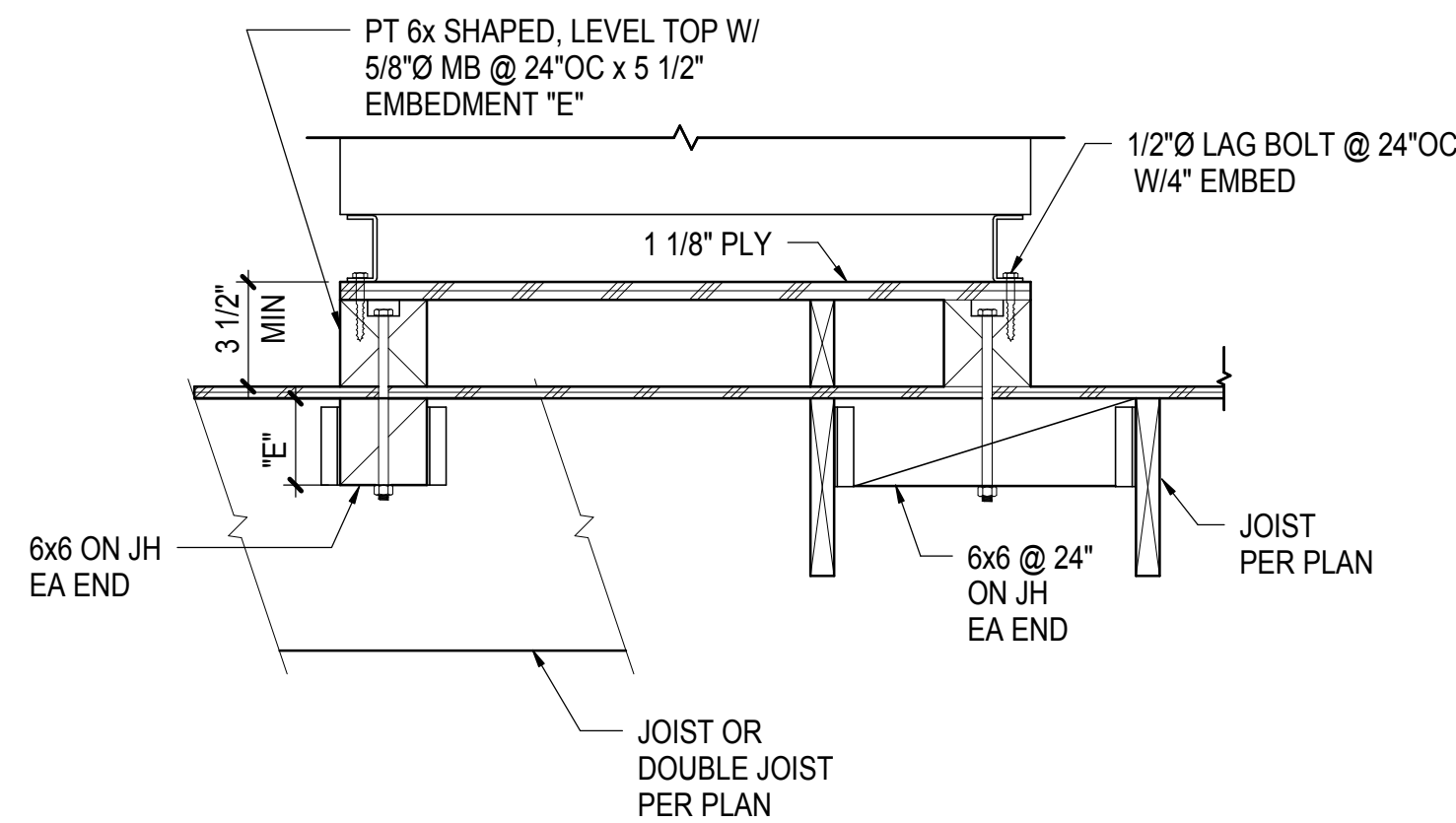


8 ROOF LEDGER
1 1/2" = 1'-0"

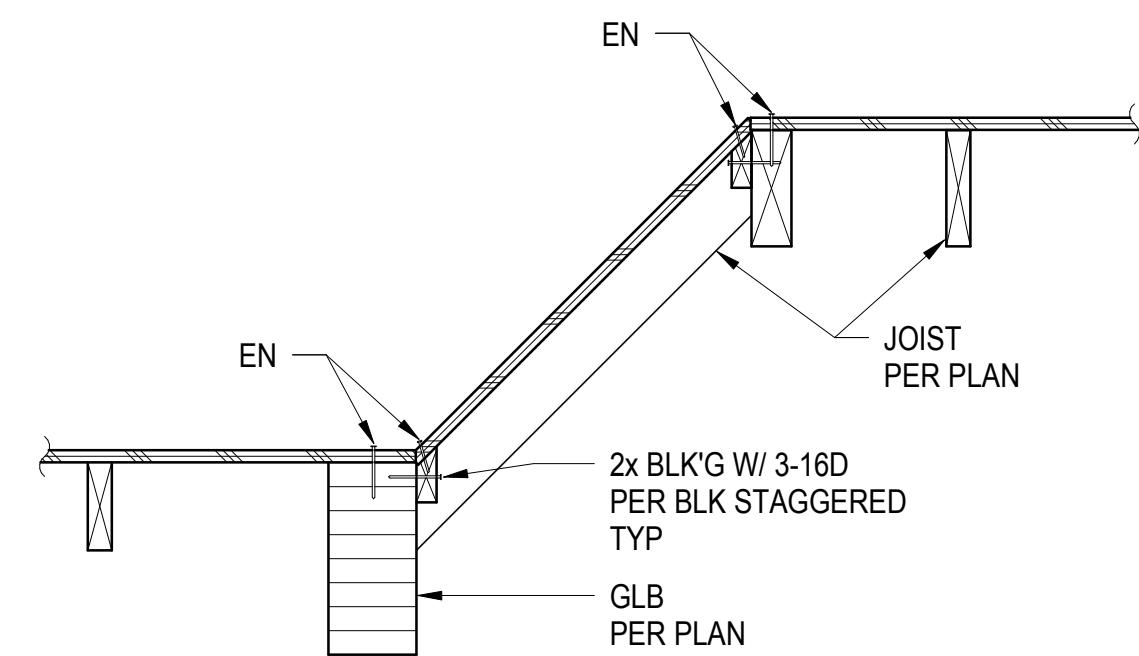


NOTE:
COORDINATE W/
ARCHITECT FOR FLASHING
& ROOFING REQUIREMENTS

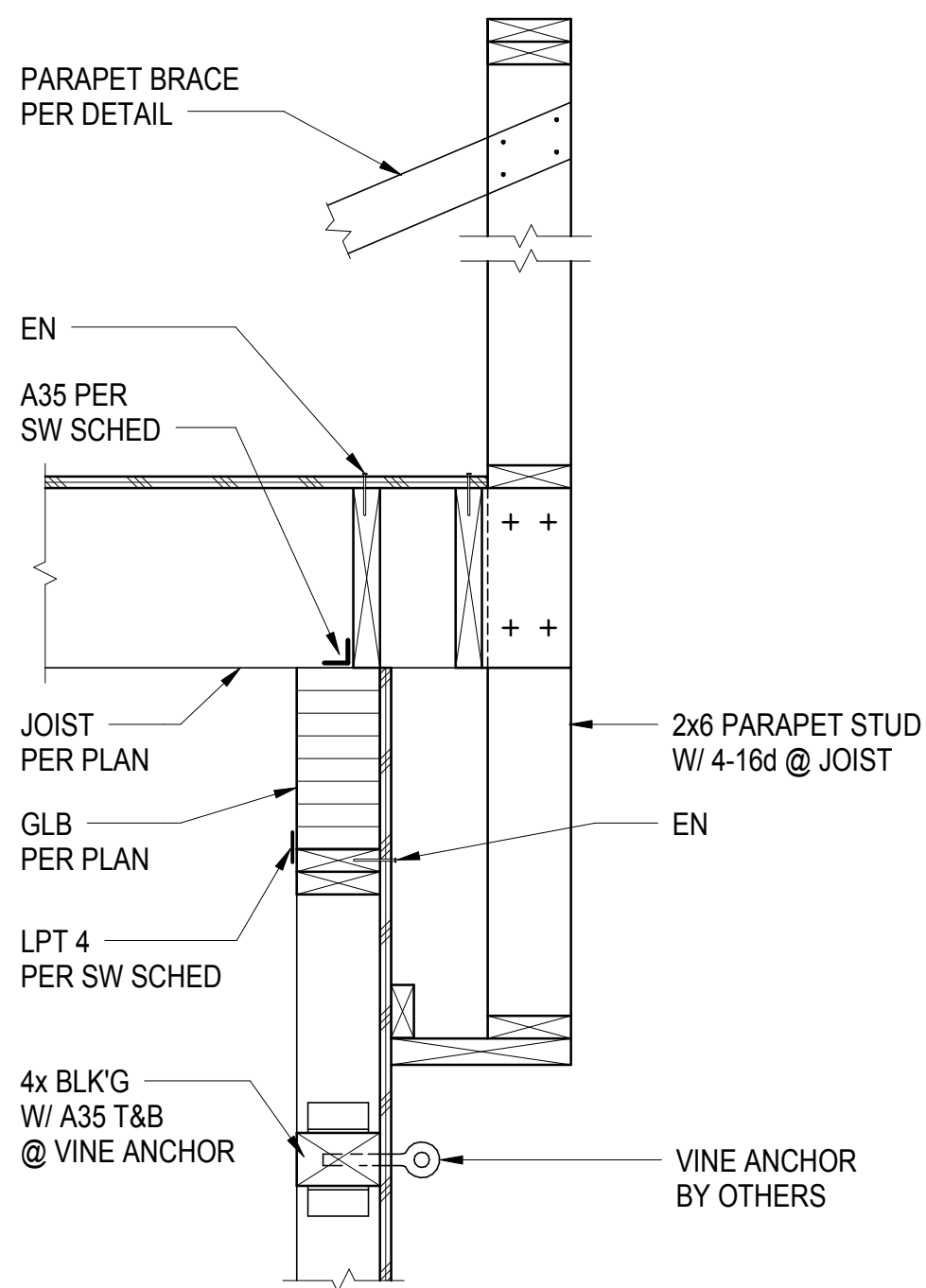
10 TYPICAL MECHANICAL UNIT AT ROOF
3/4" = 1'-0"



7 CONDENSING UNIT SUPPORT
1" = 1'-0"



2 DETAIL
1" = 1'-0"



1 DETAIL
1" = 1'-0"

PICO BRANCH LIBRARY

2201 Pico Blvd.
Santa Monica, CA 90404

PROJECT

KoningEisenberg Architecture
1454 25th St, Santa Monica, CA 90404
310.828.6131 info@kearch.com
310.828.0719 fax www.kearch.com

ARCHITECTS PROJECT NO.

1001

ARCHITECT

All designs, ideas, arrangements and plans indicated by these drawings are the property and copyright of the Architect and shall neither be used on any other work nor be disclosed to any other person for any use whatsoever without written permission.

Koning Eisenberg Architecture and/or its principals and employees waives any and all liability or responsibility for problems that may occur when these plans, drawings, specifications, and/or designs are followed without the professional's guidance with ambiguities, or conflicts which are alleged.



Thornton Tomasetti, Inc.

6080 Center Drive, Suite 260
Los Angeles CA 90045-9204
T 310.665.0010 F 310.665.0101

CONSULTANT



1437 4TH STREET, SUITE 300
SANTA MONICA, CA 90401
TEL: (310) 458-2205
FAX: (310) 399-1541
architecture@smgov.net

DATE: 20

SUBMITTED BY:

DATE: 20

APPROVED BY:
Miriam Mulder
Architecture Services Manager

CITY OF SANTA MONICA
DEPARTMENT OF PUBLIC WORKS

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

REVIEWED BY: DATE: 20

CITY CLIENT

NO.	DATE	BY	DESCRIPTION
3	07/16/12		BULLETIN 1
	06/20/12		PLAN CHECK 2
	05/07/12		PLAN CHECK 1
2	02/21/12		ADDENDUM 2

REVISIONS

ISSUE

100% CONSTRUCTION DOCUMENTS

DATE
07/16/2012

DRAWING NO.

6693

SHEET TITLE
TYPICAL ROOF
DETAILS

SHEET NO.

S7.06