

STRUCTIQ CROP

STRUCTURAL ENGINEERING SERVICES

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NOTES & SPECIAL INSPECTION

1430 C Street, Rio Linda,
CA 95673
ADU Conversion

DESCRIPTION	DATE	REV
ISSUE FOR CONSTRUCTION	11/16/2020	

REGISTERED PROFESSIONAL ENGINEER
SHARHAM ADANI
61489
9-30-21
STATE OF CALIFORNIA

SIGN DATE: 11-16-2020
DATE: AS NOTED
SCALE: AS NOTED
DRAWN BY: SA
CKD BY: DE
PROJECT #: 2020006058

S1.0

TABLE 2304.10.1–FASTENING SCHEDULE 2019 CALIFORNIA BUILDING CODE					
DESCRIPTION OF BLDG ELEMENTS		NUMBER AND TYPE OF FASTENER	SPACING & LOCATION		
1. BLOCKING BTWN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3–8d COMMON (2½"x0.131"); OR 3–10d BOX (3"x0.128"); OR 3–3"x0.131" NAILS; OR 3–3" 14 GAGE STAPLES, 7⁄16" CROWN		EACH END, TOENAIL		
BLOCKING BTWN RAFTERS OR TRUSS AT THE WALL TOP PLATE, TO RAFTERS OR TRUSS	2–8d COMMON (2½"x0.131")		EACH END, TOENAIL		
	2–3"x0.131" NAILS		EACH END, TOENAIL		
	2–3" 14 GAGE STAPLES		EACH END, TOENAIL		
FLAT BLOCKING TO TRUSS AND WEB FILLER	2–16d COMMON (3½"x0.162")		END NAIL		
	3–3"x0.131" NAILS		END NAIL		
	3–3" 14 GAGE STAPLES		END NAIL		
2. CEILING JOISTS TO PLATE	3–8d COMMON (2½"x0.131"); OR 3–10d BOX (3"x0.128"); OR 3–3"x0.131" NAILS; OR 3–3" 14 GAGE STAPLES, 7⁄16" CROWN		EACH JOIST, TOENAIL		
3. CEILING JOISTS NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	3–16d COMMON (3½"x0.162"); OR 4–10d BOX (3"x0.128"); OR 4–3"x0.131" NAILS; OR 4–3" 14 GAGE STAPLES, 7⁄16" CROWN		FACE NAIL		
4. CEILING JOISTS ATTACHED TO PARALLEL RAFTERS (HEEL JOINT) (SEE SECTION 2308.7.3.1, TABLE 2308.7.3.1)	PER TABLE 2308.7.3.1		FACE NAIL		
5. COLLAR TIE TO RAFTER	3–10d COMMON (3"x0.148"); OR 4–10d BOX (3"x0.128"); OR 4–3"x0.131" NAILS; OR 4–3" 14 GAGE STAPLES, 7⁄16" CROWN		FACE NAIL		
6. RAFTER OR ROOF TRUSS TO TOP PLATE (SEE SECTION 2308.7.5, TABLE 2308.7.5)	3–10d COMMON (3"x0.148"); OR 3–16d BOX (3"x0.135"); OR 4–10d BOX (3"x0.128"); OR 4–3"x0.131" NAILS; OR 4–3" 14 GAGE STAPLES, 7⁄16" CROWN		TOENAIL		
7. ROOF RAFTER TO RIDGE VALLEY OR HIP RAFTERS; OR ROOF RAFTER TO 2–INCH RIDGE BEAM	2–16d COMMON (3½"x0.162"); OR 3–10d BOX (3"x0.128"); OR 3–3"x0.131" NAILS; OR 3–3" 14 GAGE STAPLES, 7⁄16" CROWN		END NAIL		
	3–10d COMMON (3"x0.148"); OR 3–16d BOX (3"x0.135"); OR 4–10d BOX (3"x0.128"); OR 4–3"x0.131" NAILS; OR 4–3" 14 GAGE STAPLES, 7⁄16" CROWN		TOENAIL		
8. STUD TO STUD (NOT BRACED WALL PANELS)	16d COMMON (3½"x0.162")		24" O.C FACE NAIL		
	10d BOX (3"x0.128"); OR 3"x0.131" NAILS; OR 3–3" 14 GAGE STAPLES, 7⁄16" CROWN		16" O.C FACE NAIL		
9. STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACED WALL PANELS)	16d COMMON (3½"x0.162"); OR		16" O.C FACE NAIL		
	16d BOX (3½"x0.135"); OR		12" O.C FACE NAIL		
	3"x0.131" NAILS; OR 3–3" 14 GAGE STAPLES, 7⁄16" CROWN		12" O.C FACE NAIL		
10. BUILT–UP HEADER (2" TO 2" HEADER)	16d COMMON (3½"x0.162"); OR		16" O.C EACH EDGE, FACE NAIL		
	16d BOX (3½"x0.135")		12" O.C EACH EDGE, FACE NAIL		
11. CONTINUOUS HEADER TO STUD	4–8d COMMON (2½"x0.131"); OR 4–10d BOX (3"x0.128")		TOENAIL		
12. TOP PLATE TO TOP PLATE	16d COMMON (3½"x0.162"); OR		16" O.C FACE NAIL		
	10d BOX (3"x0.128"); OR 3"x0.131" NAILS; OR 3" 14 GAGE STAPLES, 7⁄16" CROWN		12" O.C FACE NAIL		
13. TOP PLATE TO TOP PLATE, AT END JOINTS	8–16d COMMON (3½"x0.162"); OR 12–10d BOX (3"x0.128"); OR 12–3"x0.131" NAILS; OR 12–3" 14 GAGE STAPLES, 7⁄16" CROWN		EACH SIDE OF END JOINT, FACE NAIL (MIN 24" LAP SPICE LENGHT EACH SIDE OF END JOINT)		
14. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING(NOT AT BRACED WALL PANELS)	16d COMMON (3½"x0.162"); OR		16" O.C FACE NAIL		
	16d BOX (3"x0.135"); OR 3"x0.131" NAILS; OR 3" 14 GAGE STAPLES, 7⁄16" CROWN		12" O.C FACE NAIL		
15. BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2–16d COMMON (3½"x0.162"); OR 3–16d BOX (3"x0.135"); OR 4–3"x0.131" NAILS; OR 4–3" 14 GAGE STAPLES, 7⁄16" CROWN		16" O.C FACE NAIL		
16. STUD TO TOP OR BOTTOM PLATE	4–8d COMMON (2½"x0.131"); OR 4–10d BOX (3"x0.128")		TOENAIL		
	4–3"x0.131" NAILS; OR 4–3" 14 GAGE STAPLES, 7⁄16" CROWN		TOENAIL		
	2–16d COMMON (3½"x0.162"); OR 3–10d BOX (3"x0.128"); OR 3–3"x0.131" NAILS; OR 3–3" 14 GAGE STAPLES, 7⁄16" CROWN		END NAIL		
17. TOP OR BOTTOM PLATE TO STUD	2–16d COMMON (3½"x0.162"); OR 3–10d BOX (3"x0.128"); OR 3–3"x0.131" NAILS; OR 3–3" 14 GAGE STAPLES, 7⁄16" CROWN		END NAIL		

FOR S: 1 INCH = 25.4 MM.
A. NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305. NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX/CASING.
B. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS. PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED.
C. WHERE A RAFTER IS FASTENED TO AN ADJACENT OF TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL.

WOOD NOTES

1. ALL WOOD MEMBERS SHALL BE DOUGLAS FIR/LARCH, CONFORMING TO THE CBC STANDARD 23–1 USING CURRENT WWPA GRADING RULES, UNLESS OTHERWISE NOTED. EACH PIECE OF LUMBER SHALL BE GRADE MARKED.
HORIZONTAL FRAMING
MEMBERS: THICKNESS 2x" & 3x": NO. 2
ALL OTHER HORIZONTAL
MEMBERS: NO. 1, U.O.N.

VERTICAL FRAMING
MEMBERS: 4x AND 6x POSTS: NO. 1
ALL OTHER VERTICAL MEMBERS: NO. 2
STUDS: CONSTRUCTION, U.O.N.
2. ALL PLYWOOD SHALL CONFORM TO CBC STANDARD 23–2 AND SHALL BE IDENTIFIED WITH APA GRADE MARK. SEE PLANS FOR THICKNESS.
ROOF SHEATHING: 5/8" : STRUCTURAL I (24/16)
OR ICC EQUAL
WALL SHEATHING: 1/2" : STRUCTURAL I (24/0)
OR ICC EQUAL

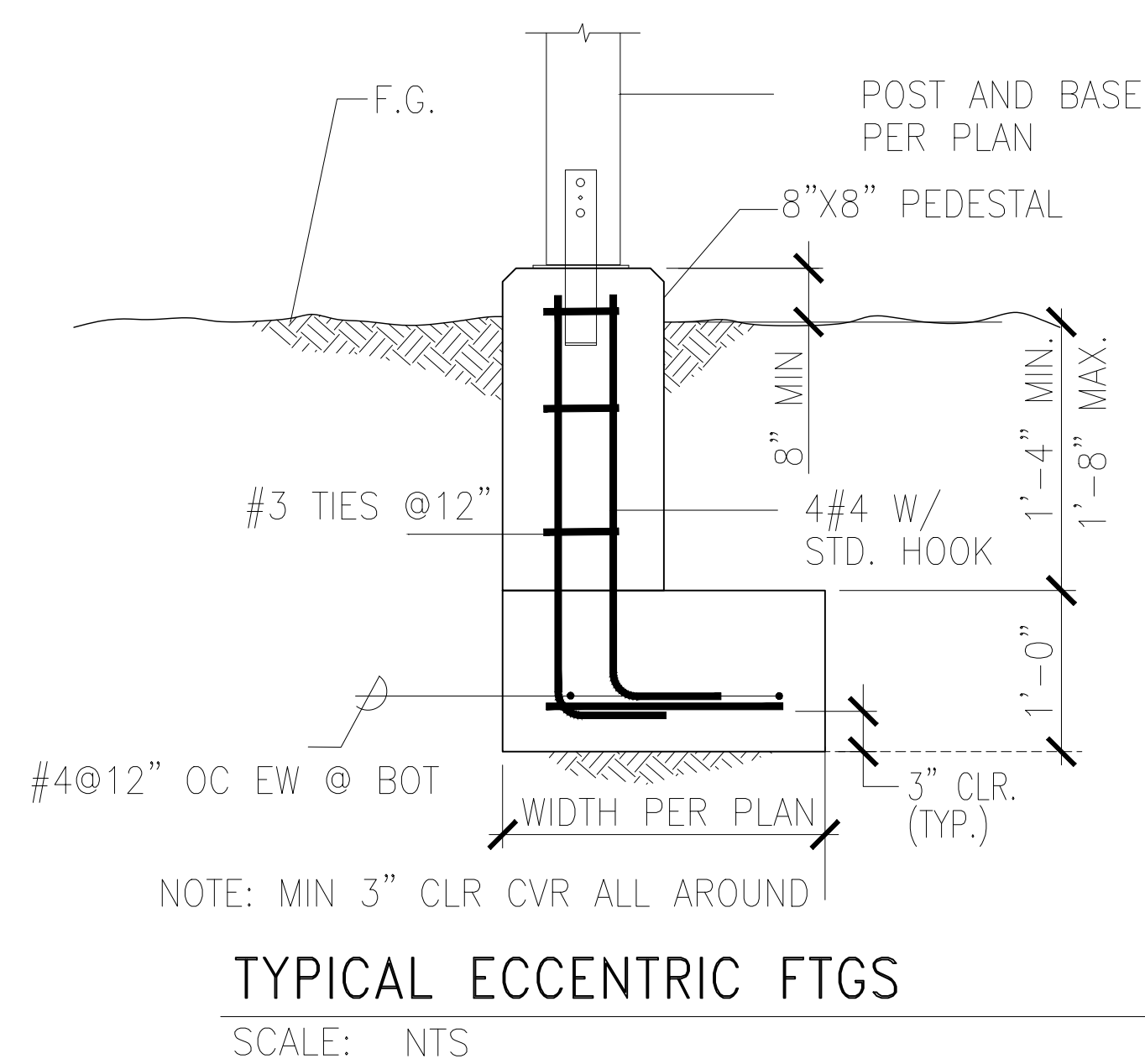
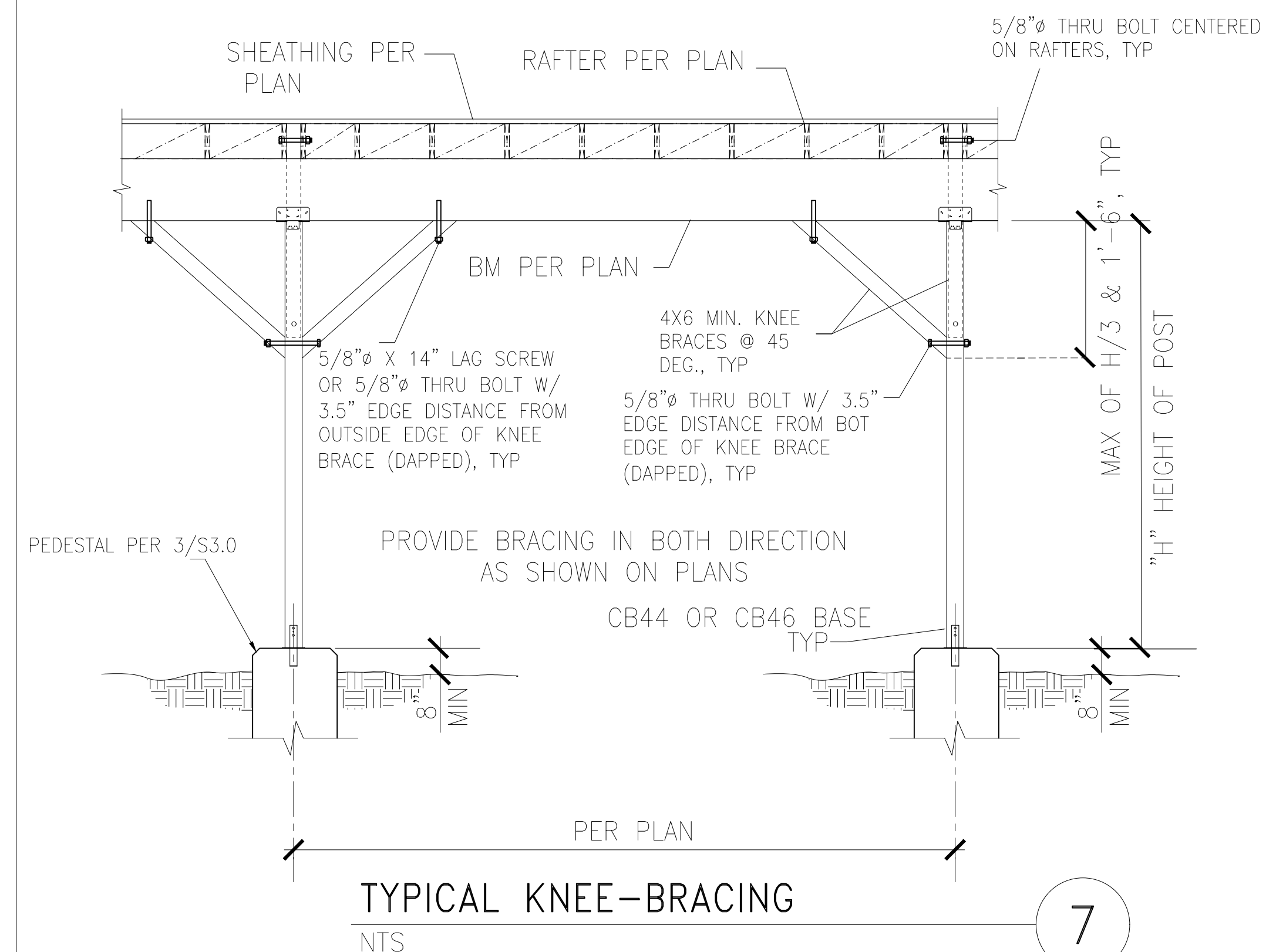
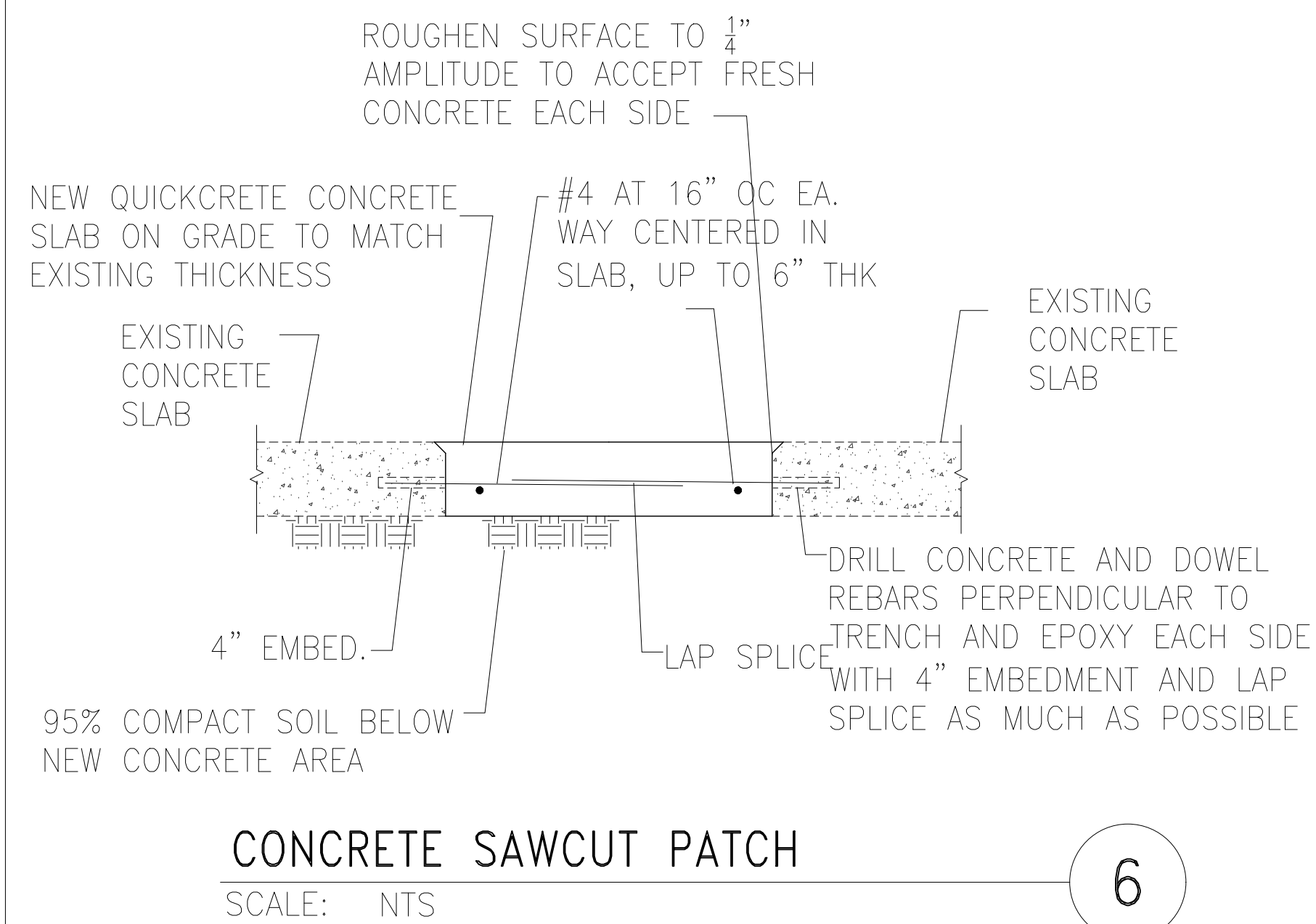
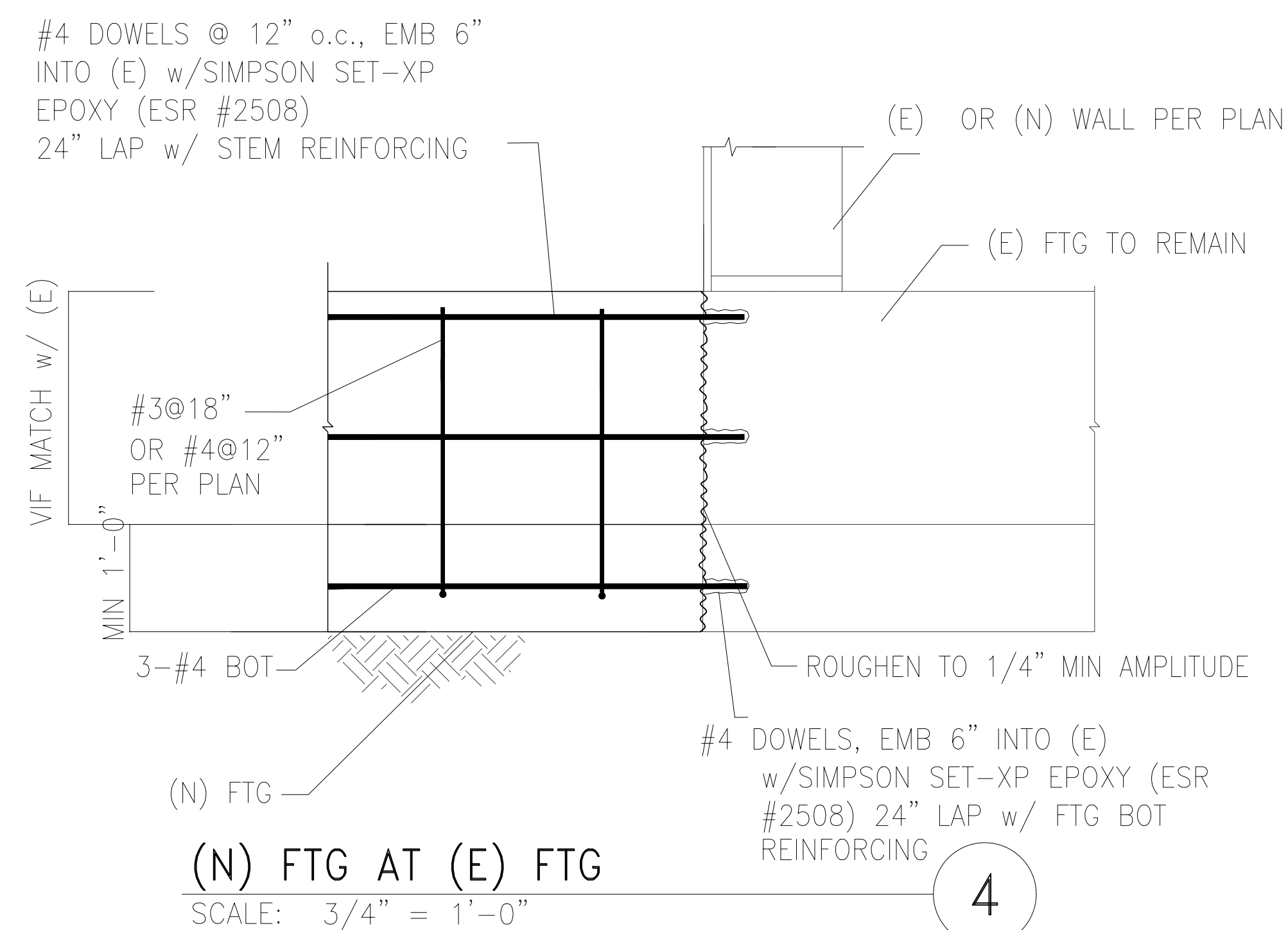
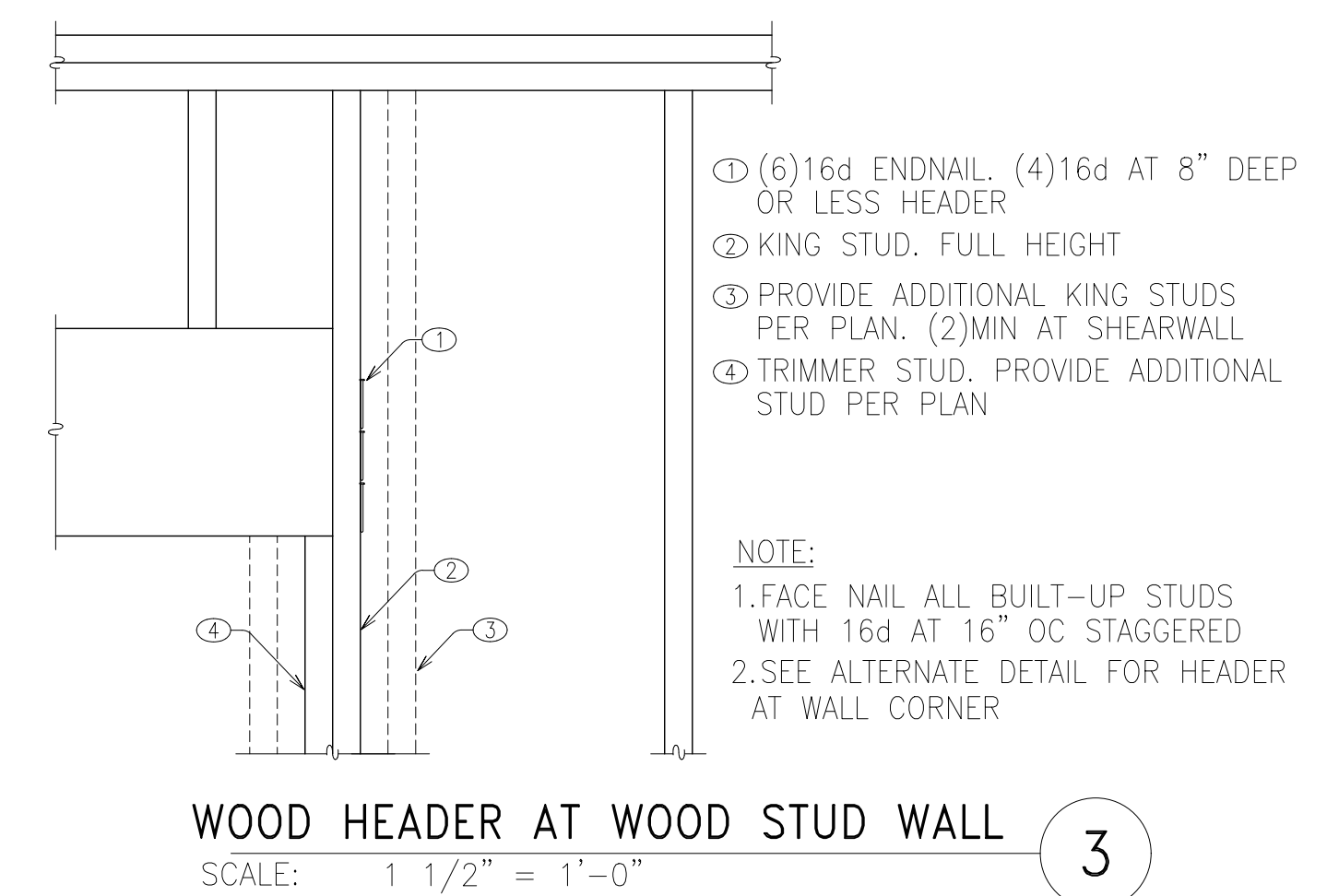
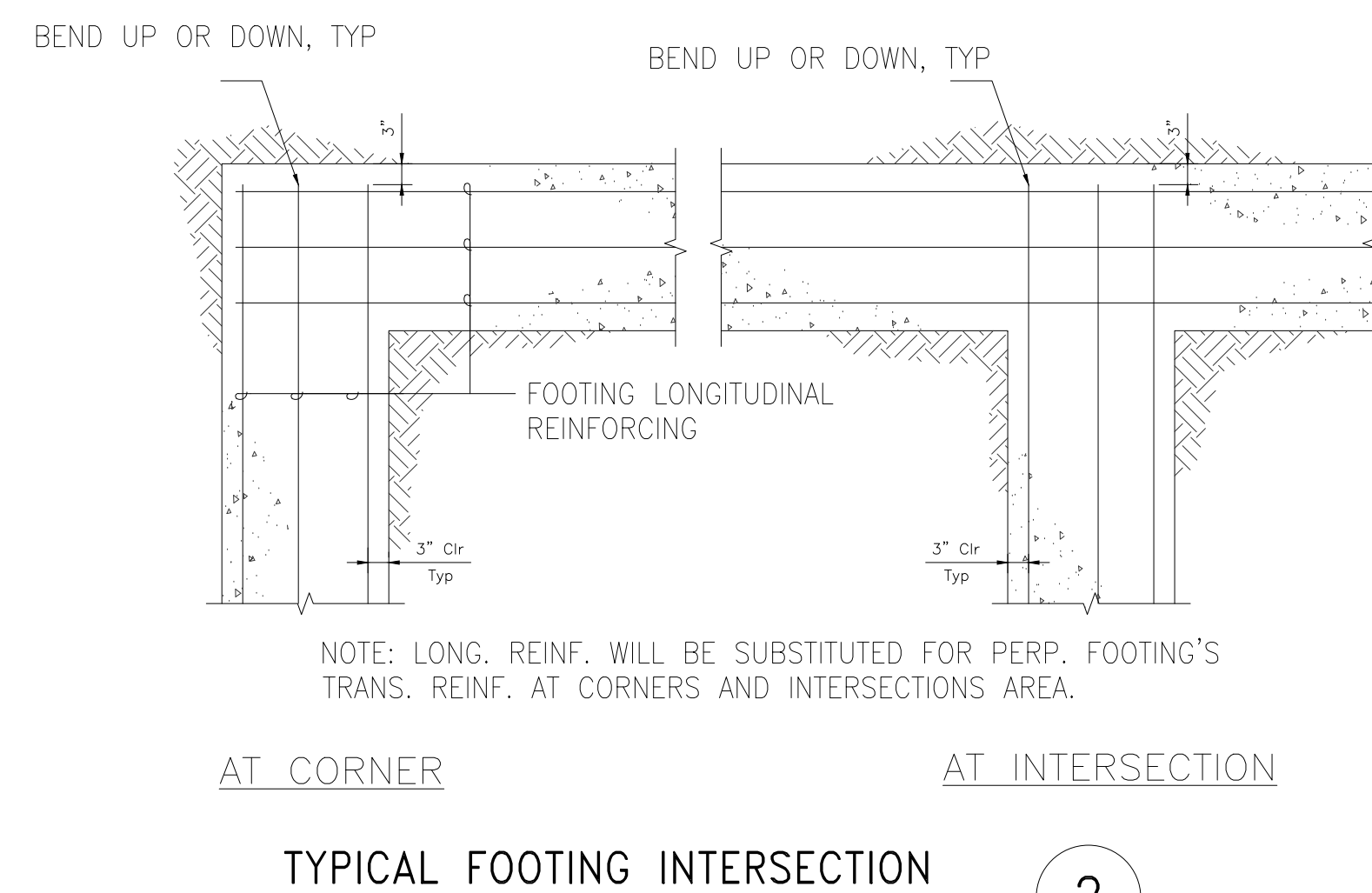
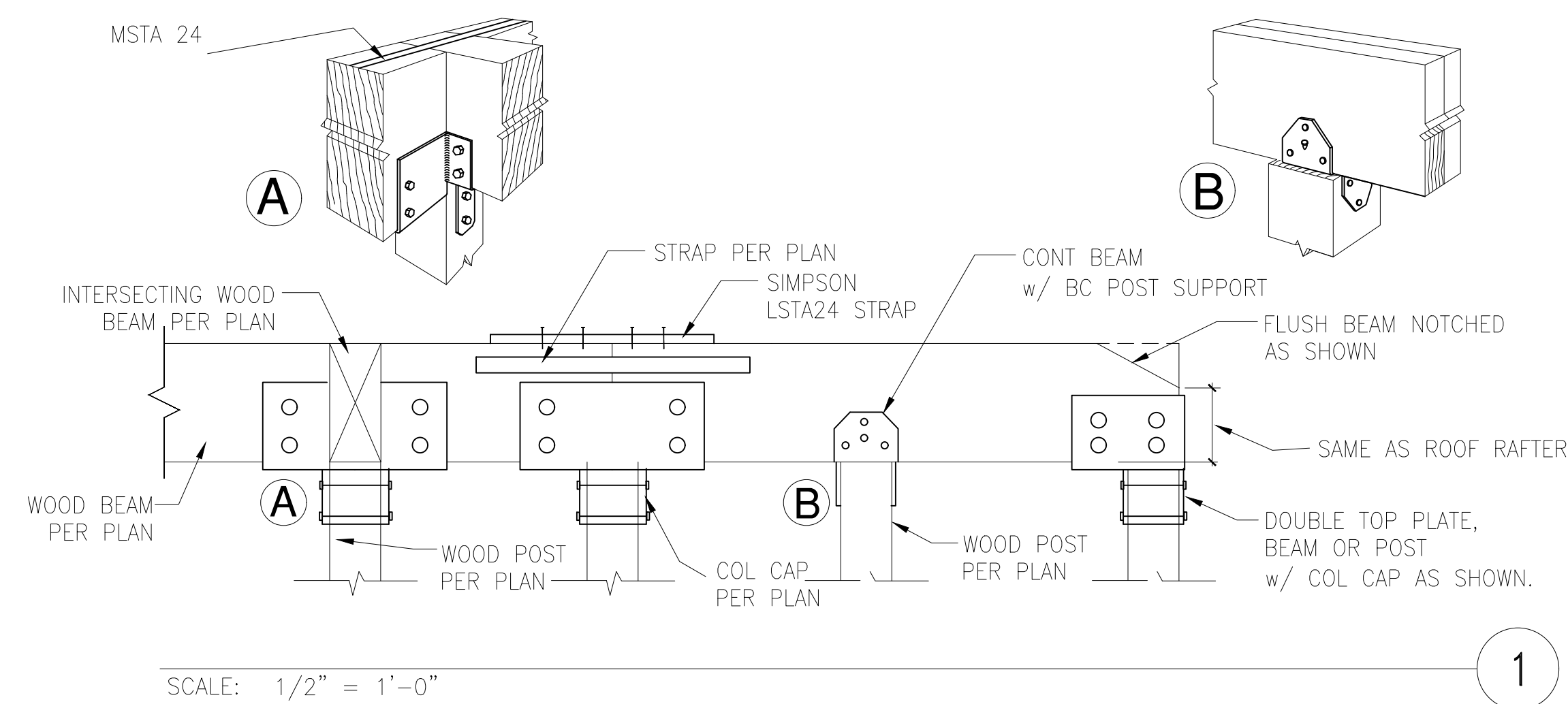
WOOD NOTES Cont.

3. RUN LONG DIMENSION OF PLYWOOD PERPENDICULAR TO FRAMING MEMBERS. NAIL AS INDICATED ON PLANS WITH COMMON WIRE NAILS. PROVIDE 2x OR 3x BLOCKING AT JOINTS PERPENDICULAR TO FRAMING MEMBERS AS INDICATED ON PLAN. ALL FRAMING MEMBERS SHALL BE ON A 4'–0" MODULE TO COINCIDE WITH PLYWOOD PATTERN.
4. 2" SOLID BLK SHALL BE PLACED BTWN ALL JSTS AND RAFTERS AT SUPPORTS.
5. LAG SCREWS: PREDRILL WITH A BIT SIZE OF 65% OF THE SHANK DIA FOR THE THREADED PORTION. LEAD HOLES SHALL BE SAME LENGTH AS UNTHREADED SHANK AND THE SAME DIA AS THE SHANK. SCREW ALL LAGS INTO PLACE. CUT WASHERS SHALL BE PROVIDED UNDER HEADS WHICH BEAR ON WOOD.
6. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIA FROM THE END AND 4 DIA FROM THE EDGE UNLESS OTHERWISE DETAILED.
7. NO CHECKS OR SPLITS ALLOWED AT AREAS TO BE BOLTED.
8. SEE SHEAR WALL SCHED ON DRAWINGS FOR REQUIREMENTS FOR SHEAR WALLS.
9. ALL CONNECTORS SHALL BE BY SIMPSON STRONG–TIE COMPANY OR ICC EQUAL.
10. DIAPHRAGM (VERTICAL AND HORIZONTAL) SHTG NAILS OR OTHER APPROVED CONNECTORS SHALL BE DRIVEN SO THAT THEIR HEAD OR CROWN IS FLUSH W/ THE SURFACE OF THE SHTG.
11. FASTENERS IN P.T. WOOD & FIRE RETARDANT WOOD SHALL BE OF HOT DIPPED ZINC–COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER.
12. WOOD FRMNG MEMBERS, INCLUDING SHTG, RESTING ON EXT FDN WALLS AND ARE LESS THAN 8" FROM EXPOSED EARTH SHALL BE P.T. WOOD.

2019 CBC PROJECT INFORMATION

2019 CBC SECTION	ASCE 7–16 SECTION	DESIGN DATA	VALUE	NOTES
1606	3	ROOF DEAD	15 PSF	PER CALCULATIONS
1606	3	FLOOR DEAD	16 PSF	PER CALCULATIONS
1606	3	WALL DEAD	10 PSF	PER CALCULATIONS
1603.1.1	4	FLOOR LIVE	40 PSF	*LIVE LOAD PER TBL. 1607.1; REDUCED PER SEC. 1607.11.2
1603.1.2	4	ROOF LIVE	20 PSF	*LIVE LOAD PER TBL. 1607.1; REDUCED PER SEC. 1607.11.2
1609	26.5.1(FIG 26–5–1B)	BASIC WIND SPEED	94 MPH	
1613A	11.4.4	SPECTRAL RESPONSE ACCELERATION S _{DS}	0.472g	
1613A	11.4.4	SPECTRAL RESPONSE ACCELERATION S _{D1}	0.338g	
1613A	20	SITE CLASS	D	ASSUMED, NO SOILS REPORT
1603.1.3	7	ROOF SNOW		
	7.2	GROUND SNOW LOAD	0 PSF	UP TO 1800 FT. ELEVATION

1. THE DESIGN SHALL CONFORM TO THE PROVISIONS OF THE 2019 CALIFORNIA BUILDING CODE (CBC), AND STANDARDS REFERENCED THEREIN.



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STRUCTURAL DETAILS

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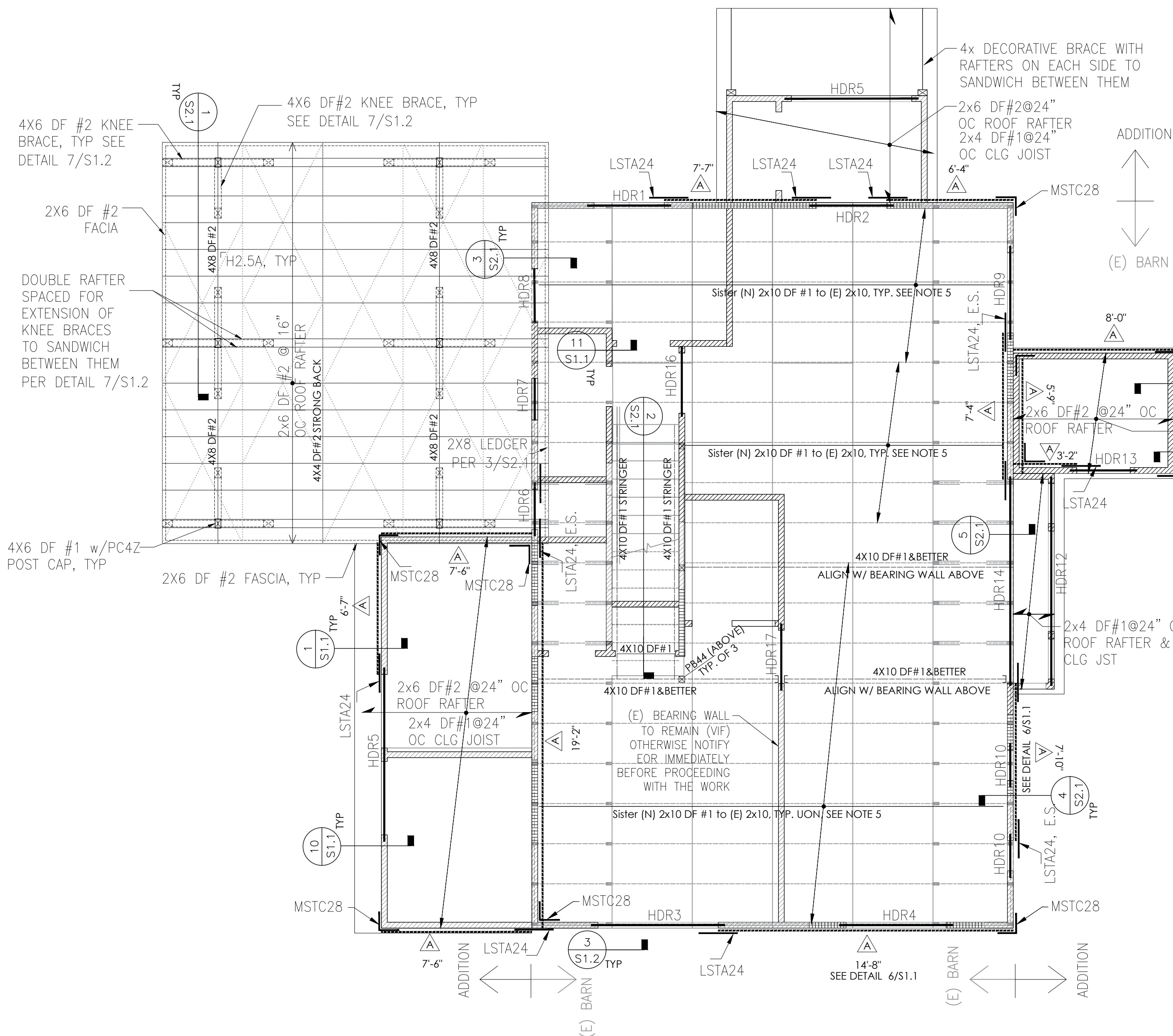
SCALE:	AS NOTED
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RAWN BY: SA

CD BY: DE

PROJECT #: 2020006058

S1.2



SECOND FLOOR & LOWER ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

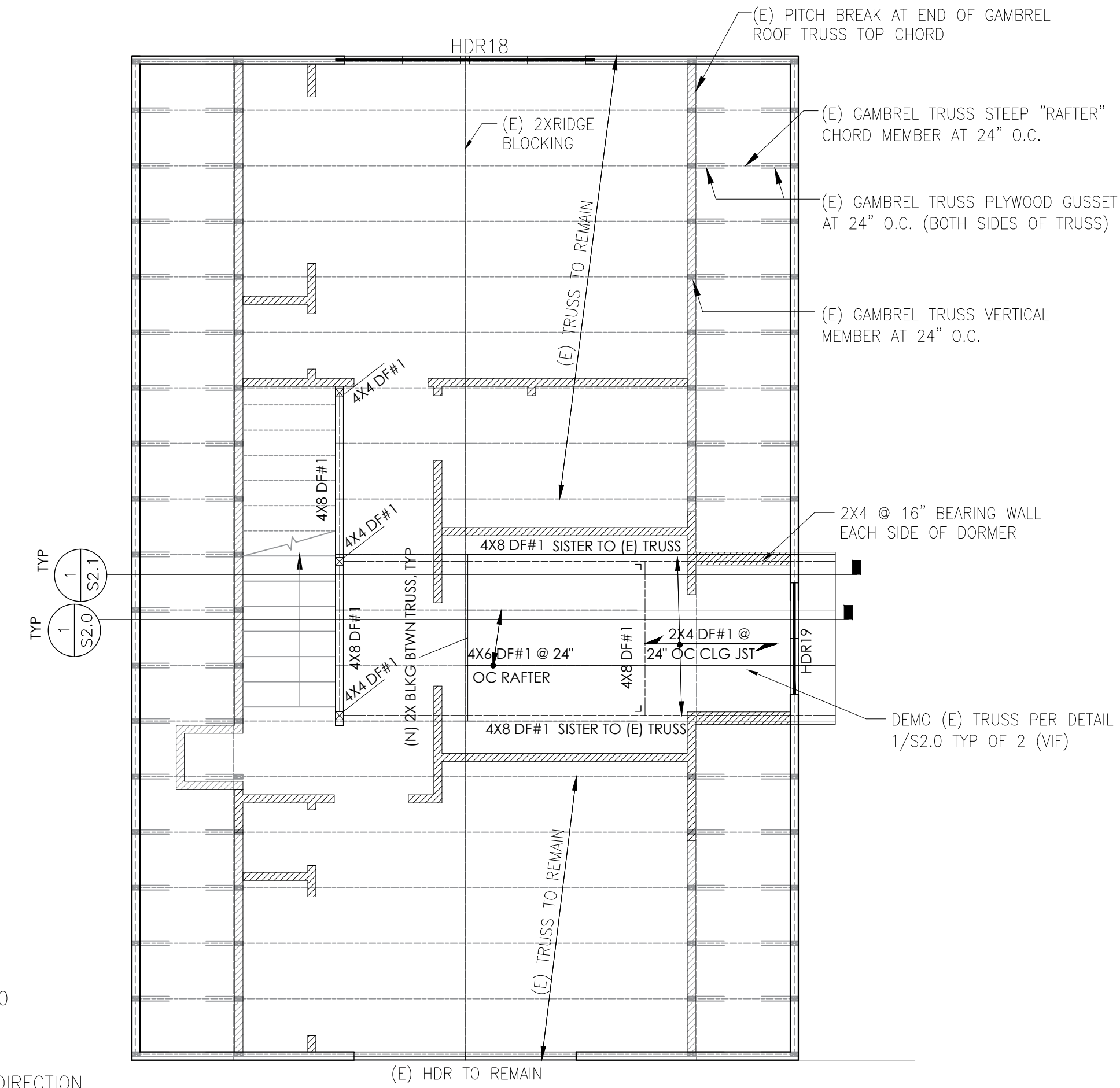
NOTES:

- IF ANY SIZES ARE DIFFERENT THAN WHAT IS SHOWN ON DRAWINGS, ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- ALL DIAPHRAGMS TO BE NAILED WITH COMMON NAILS ONLY.
- ROOF AND FLOOR DIAPHRAGM:
CONVENTIONAL — 1/2" STRUCT-1 SHEATHING, 32/0, MIN.
NAILING — 8d @ 6/6/12 (B/E/F)
(COMMON NAILS ONLY)
- INTERIOR NON-BEARING HEADERS TO BE 2-2x4 DF No. 2, MIN, U.N.O.
- FLOOR JOIST SINTERING CONNECTION INCLUDING CONSTRUCTION ADHESIVE AND 3 ROWS OF 12d NAIL @ 4" OC. STAGGERED, EXTENDED OVER BEARING WALLS.
- WHEN REQUIRED TRUSS PLATE CONNECTION SHOULD BE REMOVED IN KIND AT ONE SIDE, NEW 2X10 FLOOR JOIST SHALL BE EXTENDED OVER THE BEARING WALLS. 2X BLOCKING HAS TO BE ADDED TO FILL THE GAP BETWEEN CONNECTION PLATE AND TRUSS DIAGONALS, THEN THE CONNECTION PLATE SHOULD BE INSTALLED PER ORIGINAL DESIGN AND SHALL BE CONNECTED TO THE NEW JOIST AND BLOCKING.
- PROPER SHORING SHALL BE INSTALLED BY CONTRACTOR PRIOR TO DEMOLITION OF ANY FLOOR JOIST AND ROOF TRUSS ELEMENTS TO SECURE THE STRUCTURE AND PROPERLY TRANSFER THE GRAVITY LOADS TO THE GROUND LEVEL.

HEADER SCHEDULE	
HDR#	MEMBER
HDR1	4X4 DF #2
HDR2	4X4 DF #2
HDR3	4X4 DF #1
HDR4	4X4 DF #2
HDR5	4X4 DF #2
HDR6	4X4 DF #2
HDR7	4X4 DF #1
HDR8	4X4 DF #2
HDR9	4X6 DF #2
HDR10	4X4 DF #2
HDR11	4X4 DF #2
HDR12	4X4 DF #2
HDR13	4X4 DF #2
HDR14	6X12 DF #1
HDR15	4X6 DF #1
HDR16	4X6 DF #1
HDR17	4X6 DF #1
HDR18	4X4 DF #2
HDR19	4X6 DF #1

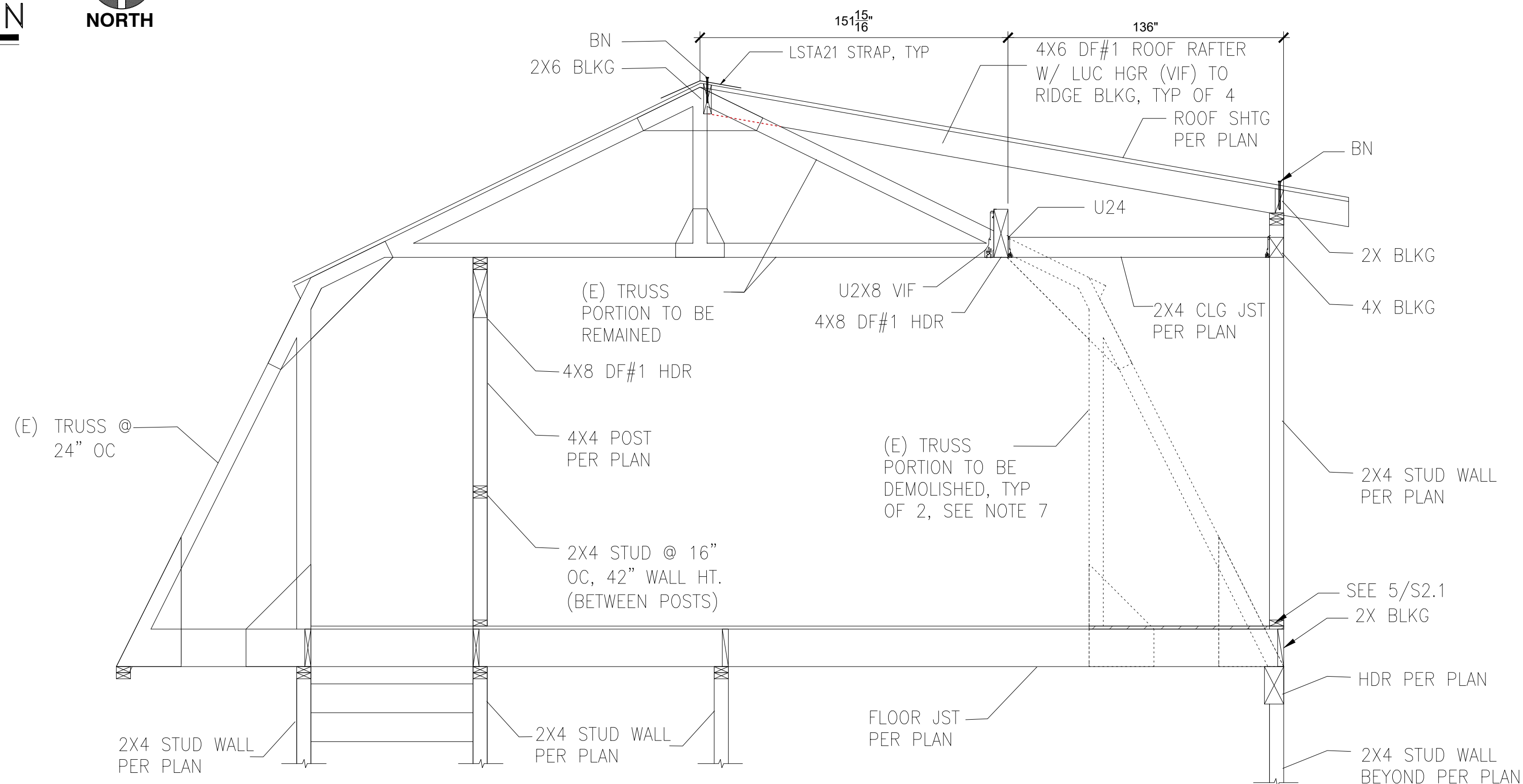
LEGEND:

- EXISTING WALL TO REMAIN
- INFILL AN EXISTING WALL
- NEW INTERIOR TO BE 2X4 STUDS @ 16" (DF-CONSTRUCTION)
- NEW PERIMETER TO BE 2X4 STUDS @ 16" (DF-CONSTRUCTION)
- INDICATES (N) SHEARWALL PER SW/S3.0 SHEARWALL SCHEDULE
- INDICATES SPAN CLG JST AND RAFTER DIRECTION
- INDICATES EXTENT OF FRAMING



UPPER ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"



TYP TRUSS RETROFIT AT DORMER

NTS

1

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FLOOR AND ROOF
FRAMING PLANS
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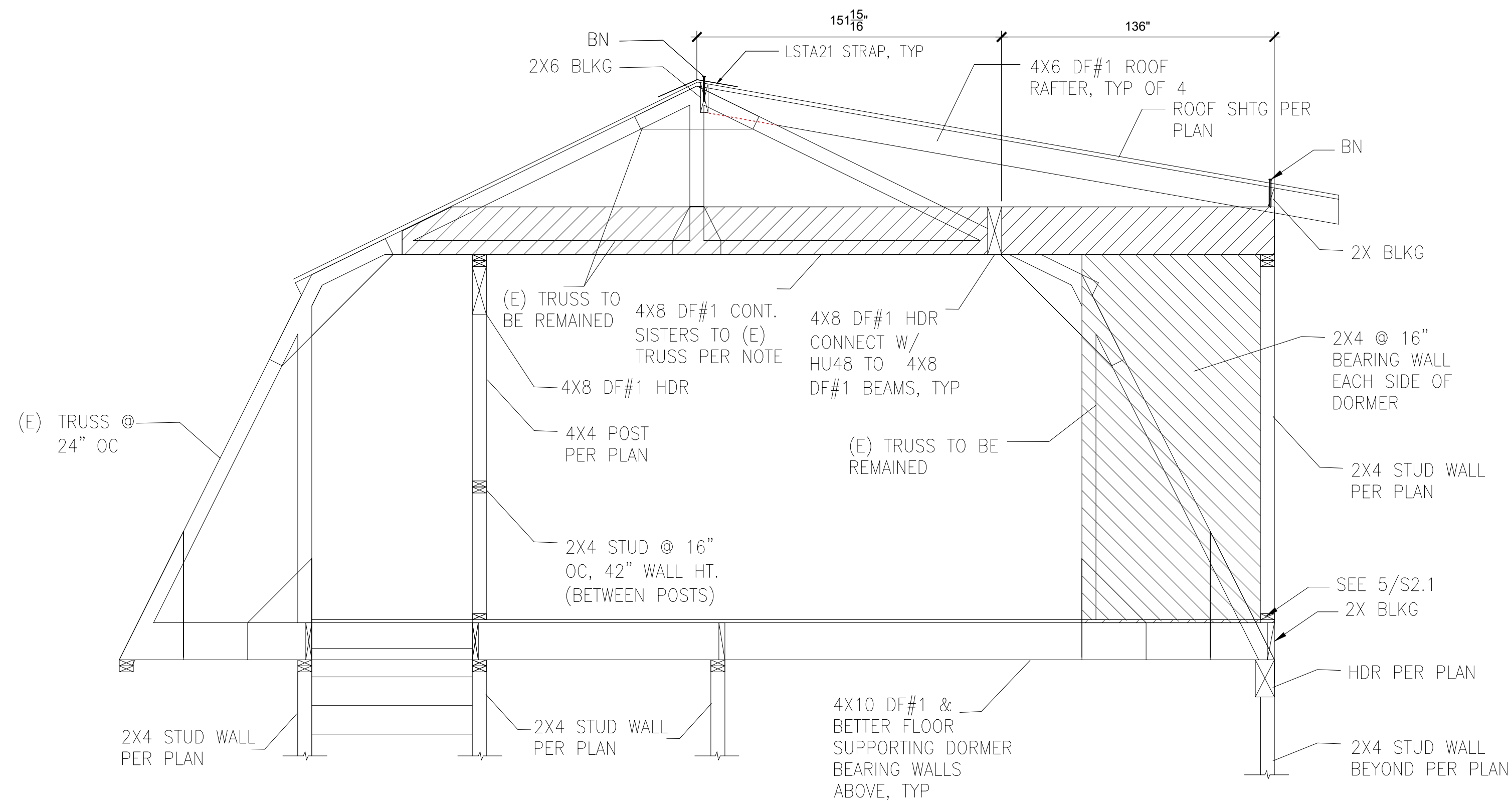
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S2.0

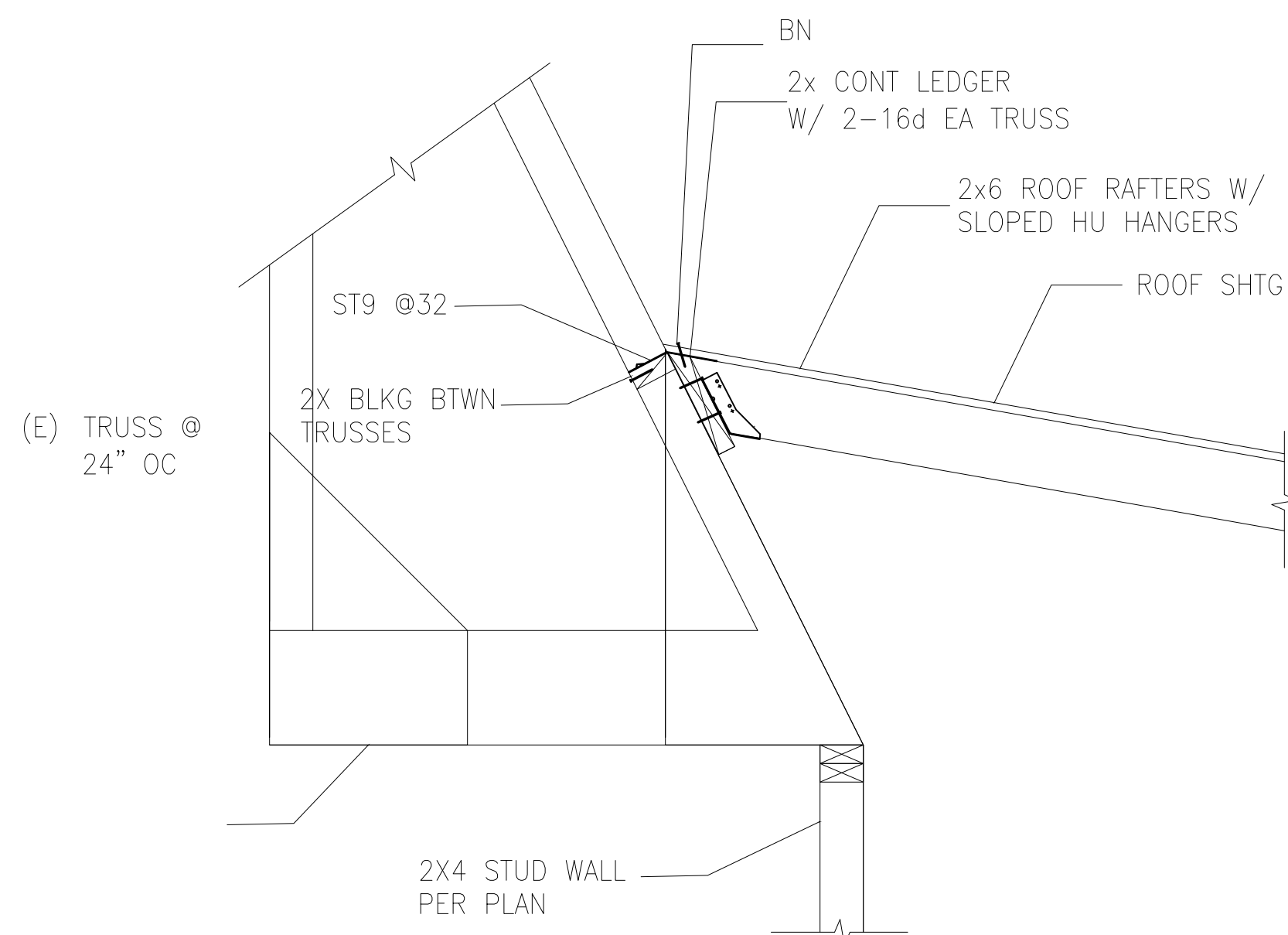


NOTE:
BEAM SISTERING CONNECTION INCLUDING CONSTRUCTION ADHESIVE AND A ROW OF 12d NAIL @ 4" OC. ON OVERLAP AREA EXTENDED OVER BEARING WALLS.

TYP TRUSS RETROFIT AT DORMER

NTS

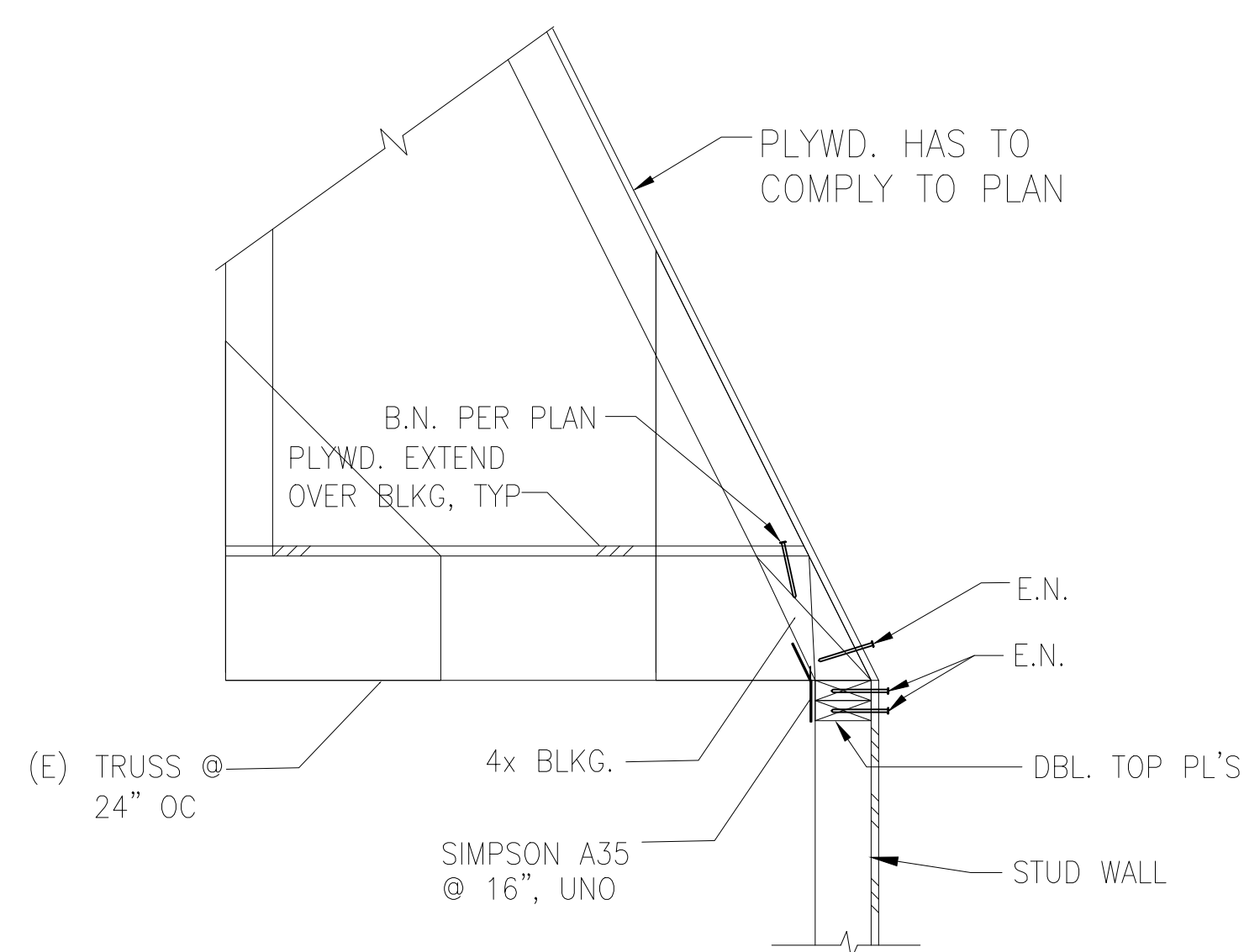
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SLOPED RAFTER TO (E) ROOF

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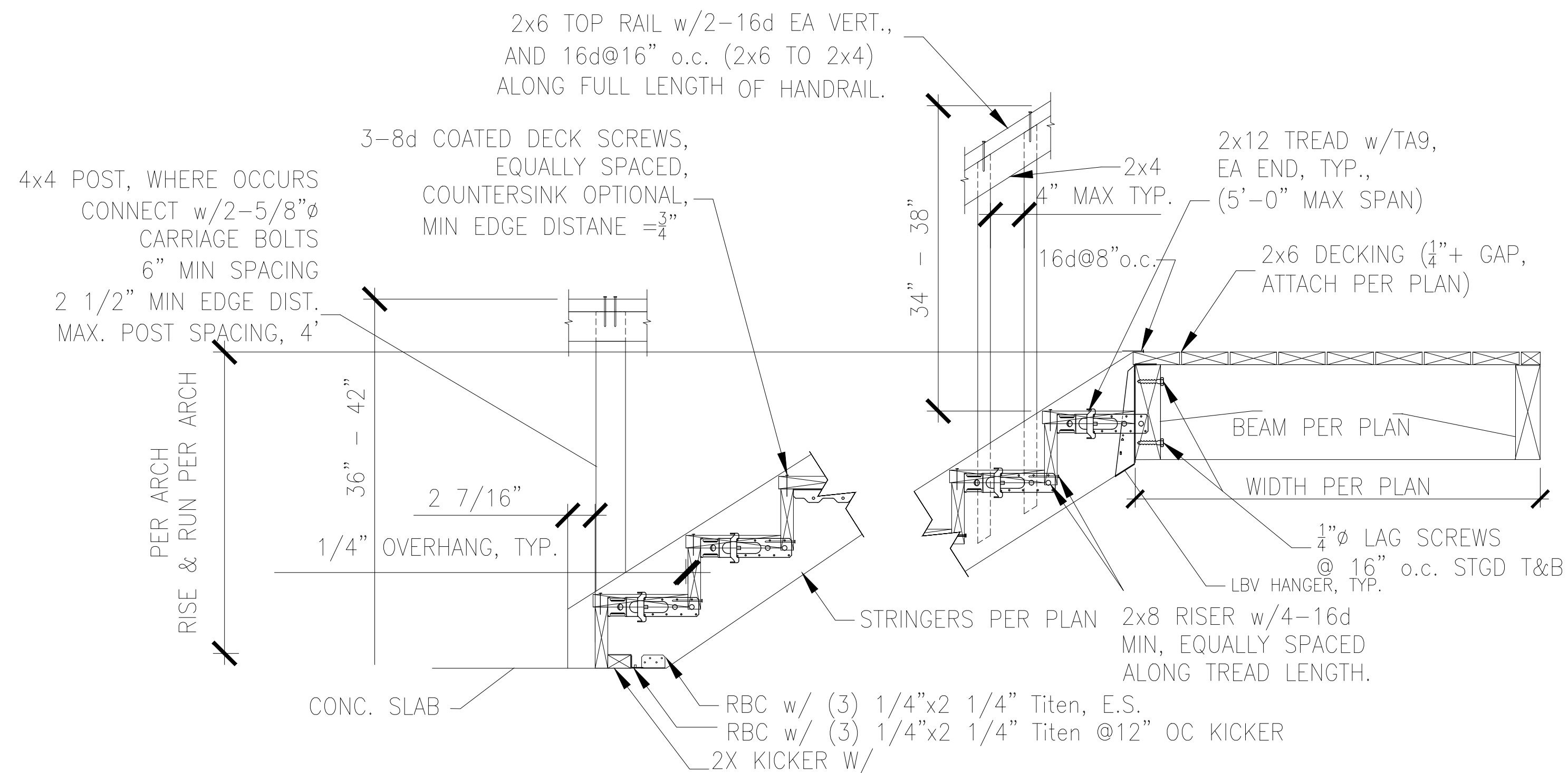
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ROOF AND FLOOR SHEAR TRANSFER

NTS

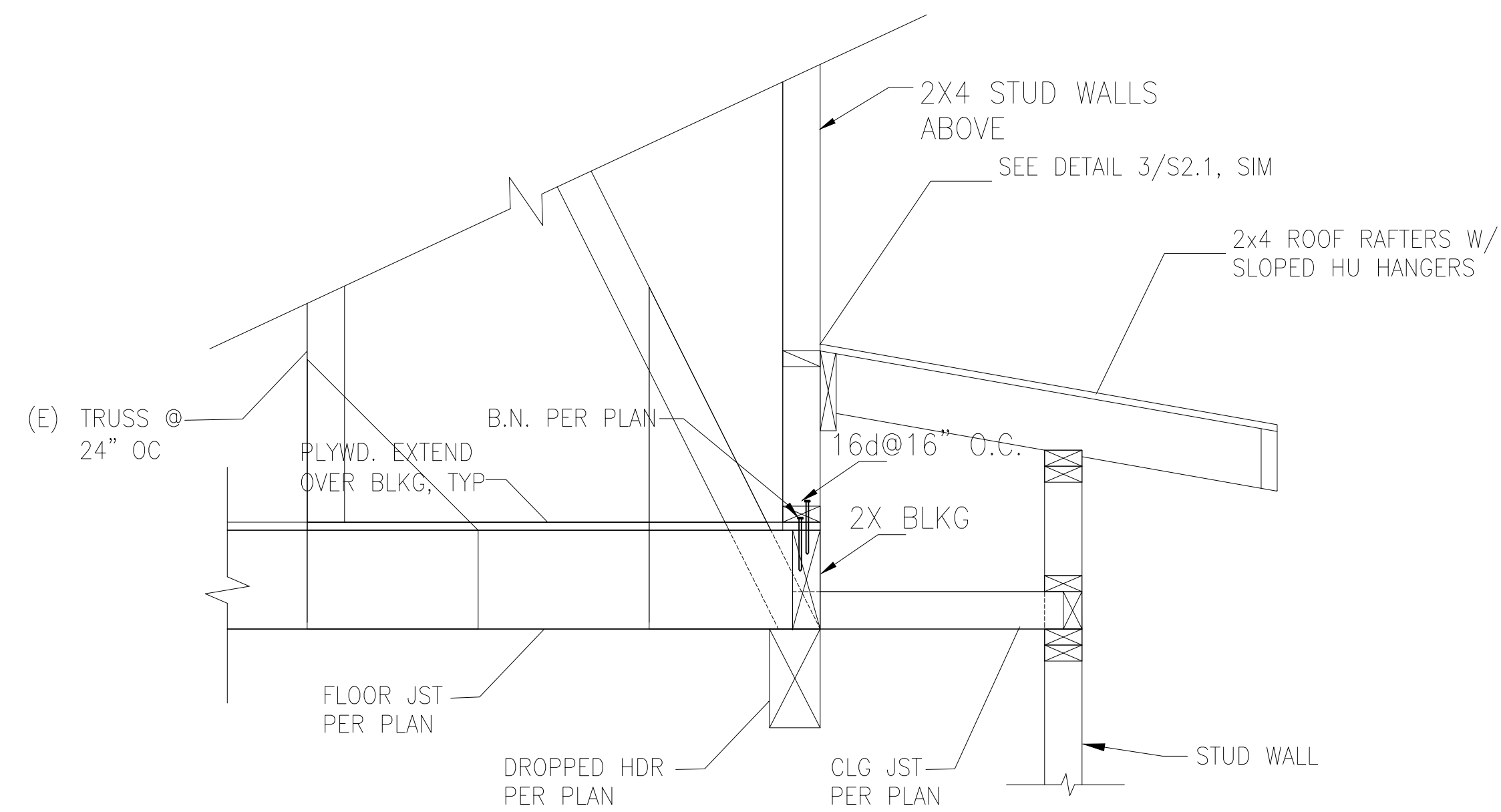
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TYP. STAIR ELEVATION

NTS

2



DROPPED HEADER DETAIL

NTS

5

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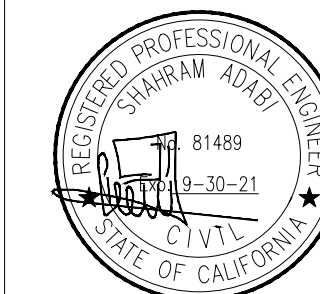
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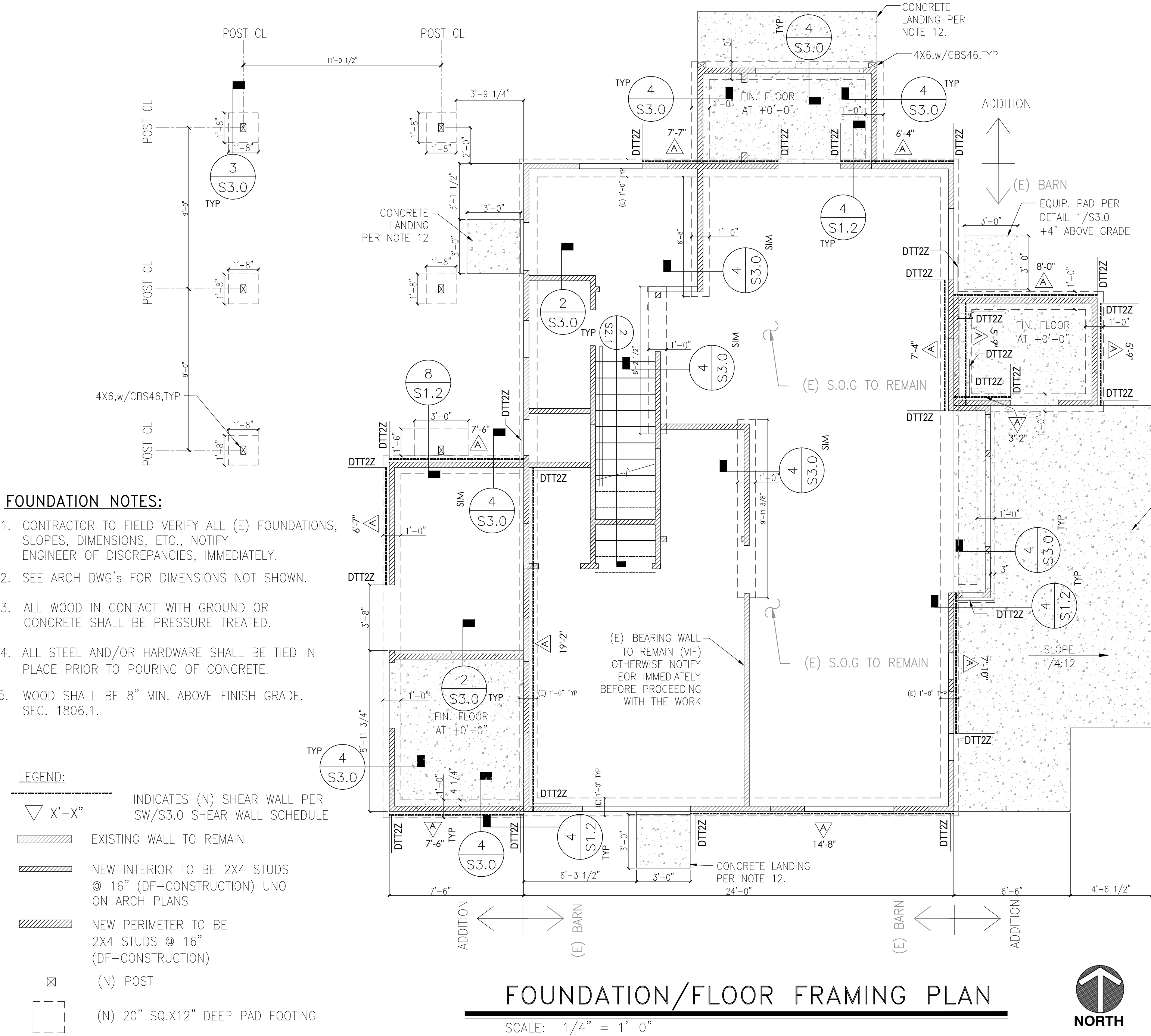
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S2.1



FOUNDATION NOTES:

- CONTRACTOR TO FIELD VERIFY ALL (E) FOUNDATIONS, SLOPES, DIMENSIONS, ETC., NOTIFY ENGINEER OF DISCREPANCIES, IMMEDIATELY.
- SEE ARCH DWG's FOR DIMENSIONS NOT SHOWN.
- MINIMUM SILL BOLT REQUIREMENTS PER $\frac{9}{S1.1}$
- ALL WOOD IN CONTACT WITH GROUND OR CONCRETE SHALL BE PRESSURE TREATED.
- ALL POSTS SHALL BEAR DIRECTLY ON SILL PLATE, w/2-16d TOENAILS MIN.
- ALL STEEL AND/OR HARDWARE SHALL BE TIED IN PLACE PRIOR TO POURING OF CONCRETE.
- ALL NEW EXTERIOR, BEARING WALLS & SHEAR WALLS SHALL BE FRAMED WITH 2x6 STUDS @ 16" o.c.
- INTERIOR, NON-BEARING WALLS SHALL BE FRAMED WITH 2x4 STUDS @ 16" o.c.
- CENTERLINE OF HOLDOWN ANCHORS SHALL MATCH CENTERLINE OF WALL FRAMING U.N.O.
- WOOD SHALL BE 8" MIN. ABOVE FINISH GRADE. SEC. 1806.1.

11. SEE $\frac{SW}{S3.0}$ FOR SHEARWALL SCHEDULE

12. SOG IS 4" THICK W/ #3 @ 18" O.C. CENTERED EW ON VAPOR BARRIER ON 4" OF CRUSHED ROCK. SEE $\frac{1}{S3.0}$ FOR MORE INFO.

CONCRETE:

- ALL CONCRETE WORK SHALL BE DONE IN CONFORMANCE WITH THE LATEST EDITION OF THE ACI BUILDING CODE AND THE LATEST EDITION OF THE MANUALS OF CONCRETE PRACTICE.
- THE CONCRETE FOR THE FOUNDATION SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI. THE USE OF ANY ADMIXTURE SHALL BE APPROVED BY THE ENGINEER.
- THE MAXIMUM AGGREGATE SIZE SHALL BE $\frac{3}{4}$ " - OR PUMP DELIVERED CONCRETE.
- REINFORCEMENT ANCHOR BOLT SLEEVES, AND OTHER SUCH ITEMS TO BE CAST MONOLITHICALLY IN CONCRETE SHALL BE SECURELY FASTENED AND IN PLACE PRIOR TO PLACING THE CONCRETE.

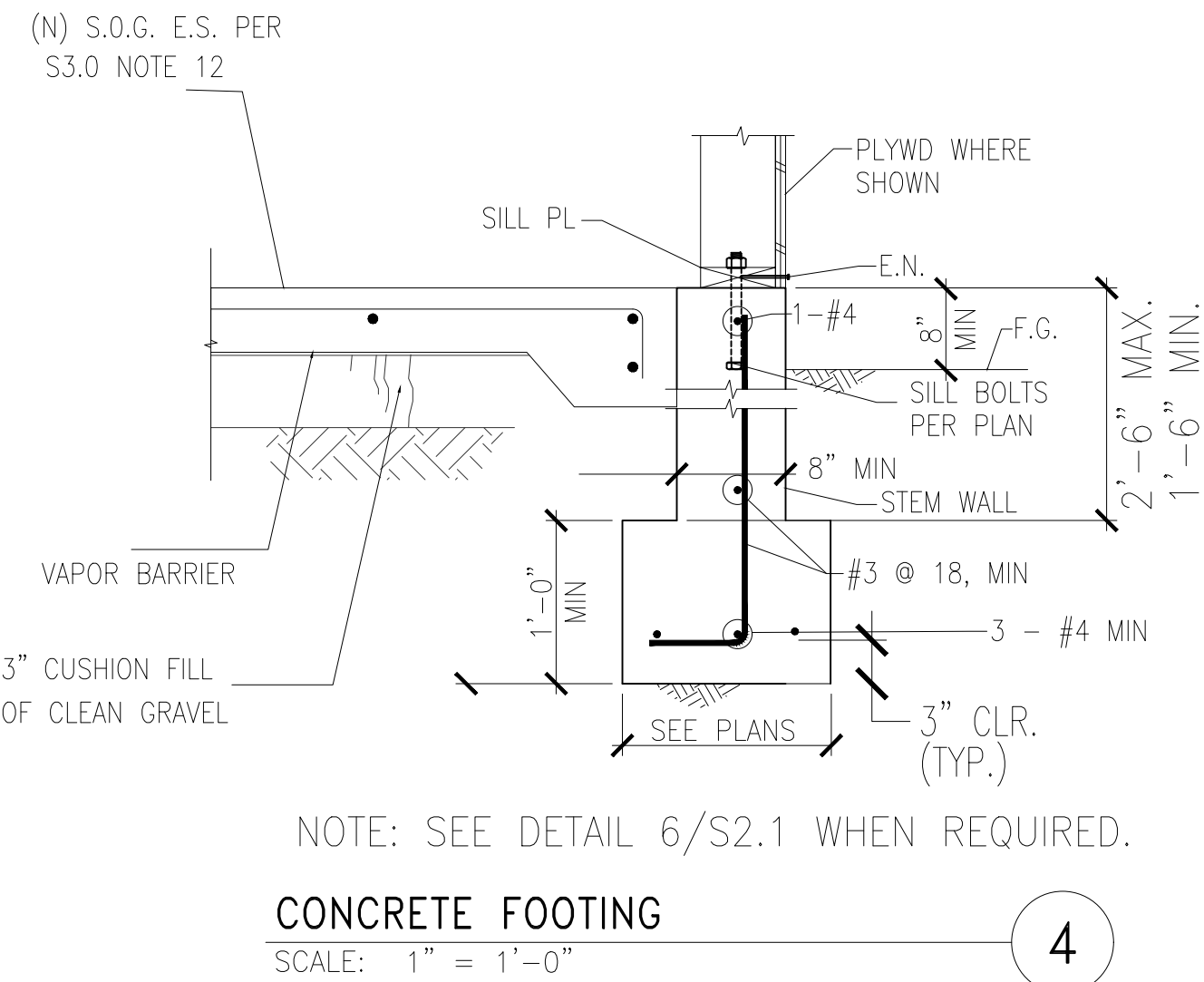
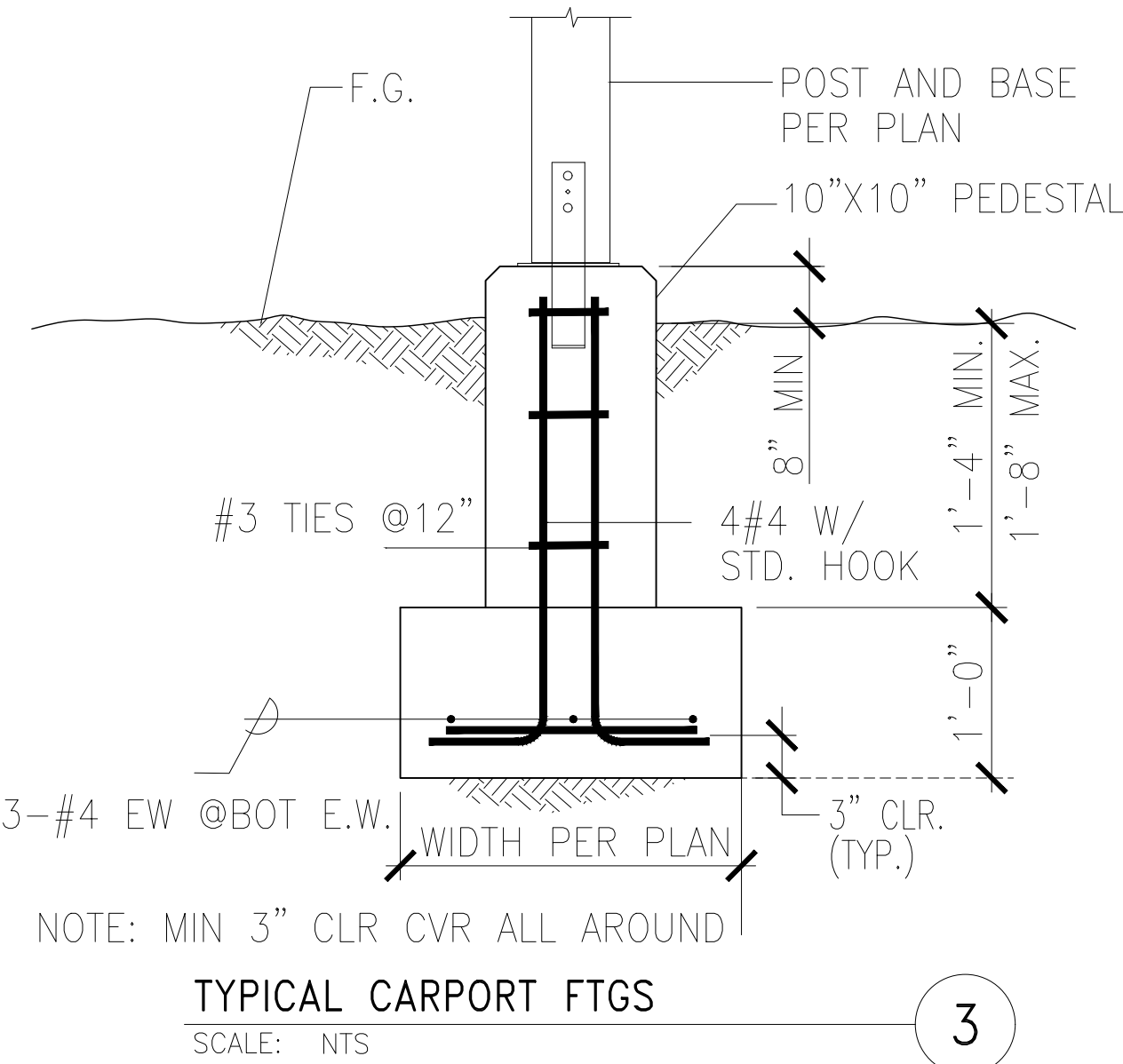
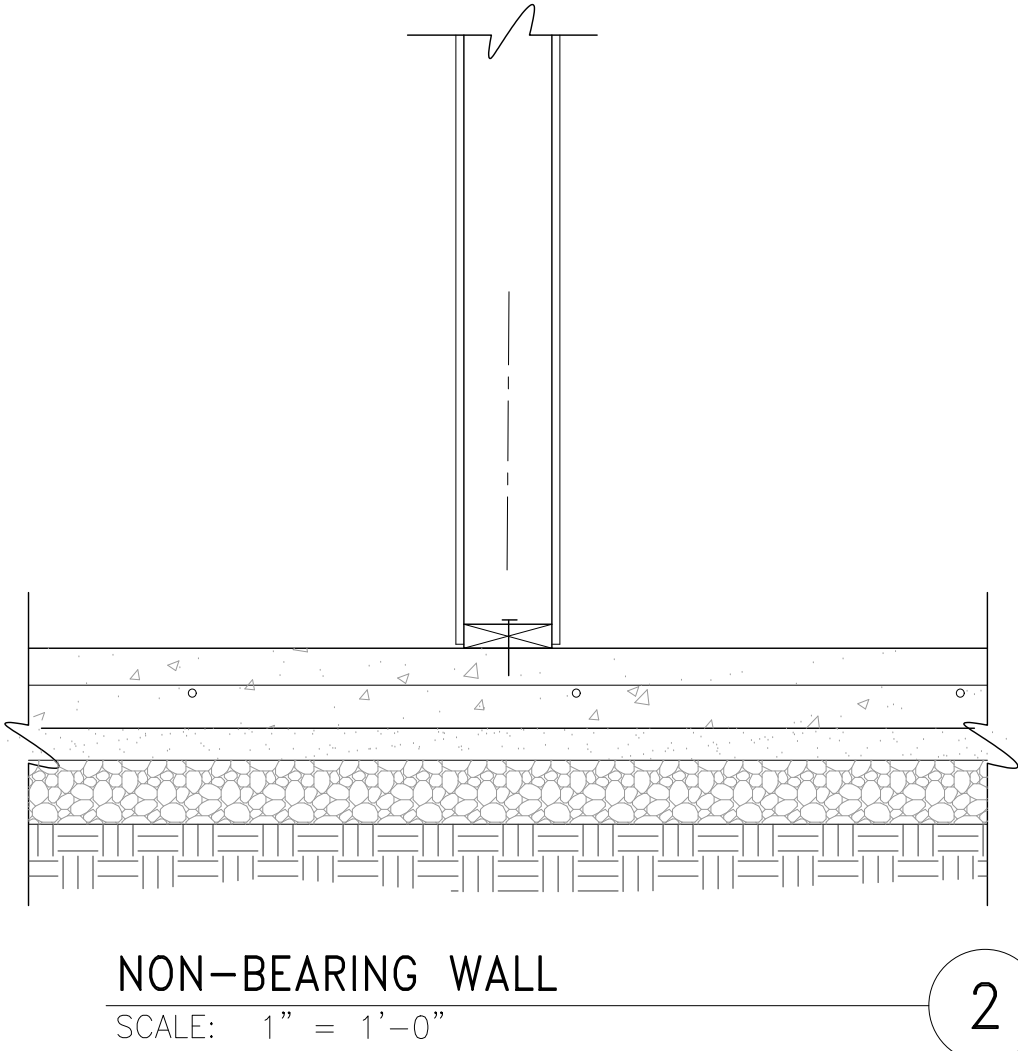
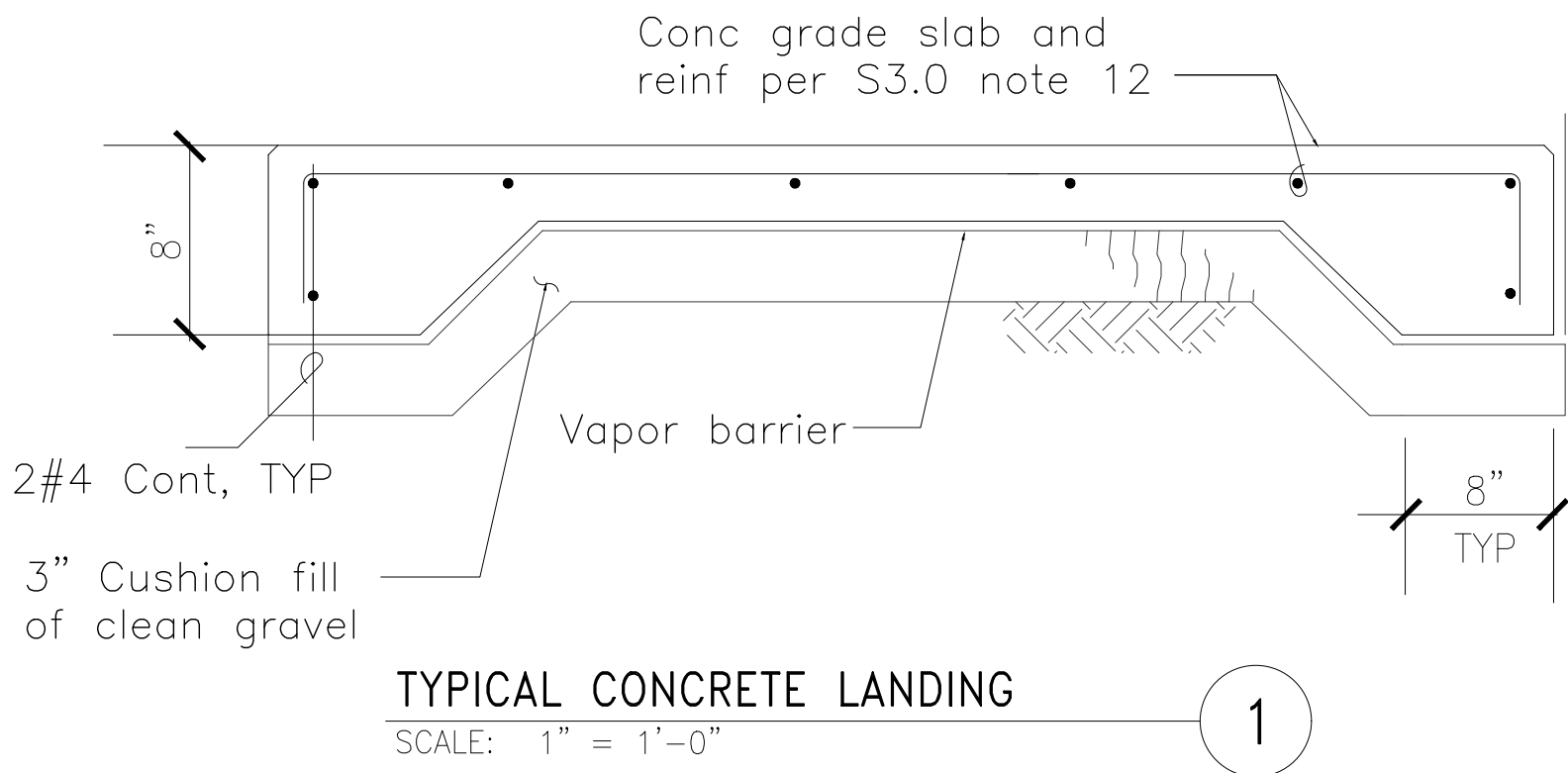
REINFORCING STEEL:

- REINFORCING STEEL SHALL COMPLY WITH ASTM A615, GRADE 40 FOR #4 AND SMALLER BARS, GRADE 60 FOR #5 AND LARGER BARS. SPLICES SHALL BE STAGGERED WHERE POSSIBLE. SPLICE BARS 40 BAR DIAMETERS MINIMUM.
- SUPPORTING DEVICES FOR THE REINFORCEMENT SHALL BE SPACED SUFFICIENTLY TO PROPERLY SUPPORT THE REINFORCEMENT AND PREVENT EXCESSIVE DEFLECTION THAT MAY RESULT IN IMPROPER BAR PLACEMENT.
- THE FOLLOWING MINIMUM BAR COVERS SHALL BE MAINTAINED:
CONCRETE EXPOSED TO EARTH OR WEATHER . . . 1 1/2"
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH . . . 3"

PLYWOOD SHEAR WALL SCHEDULE ^(1,2,3,4,6.)									
MARK	PLYWD. BOTH SIDES	EDGE NAILING	FIELD NAILING	END STUDS/ POSTS	SILL ANCHORS	HOLDOWNS/STRAP @ EA END, U.O.N.	CLIP SPACING	SILL PL NAIL/LAGS	SHEAR WALL DESIGN VALUES
$\triangle$	NO - 3/8"	8d @ 4" O.C.	8d @12" O.C.	3X-OR 2-2X	SEE: $\frac{9}{S1.1}$	PER PLAN AND NOTES	A35 @ 16"	16d @ 4" COMMON NAIL	400 p.l.f. Seismic 560 p.l.f. Wind

NOTES:

- PANELS SHALL BE STRUCT. I (24/0 MIN) PLYWOOD APPLIED DIRECTLY TO WOOD STUDS.
- PANELS CAN BE INSTALLED EITHER VERTICALLY OR HORIZONTALLY.
- USE COMMON NAILS OR GALVANIZED BOX.
- ALL PANELS SHALL BE BACKED WITH 2 INCH NOMINAL OR WIDER FRAMING, TYP. U.O.N.
- FRAMING AT ADJOINING PANEL EDGES AND SILL PLATES SHALL BE 3x NOMINAL OR WIDER AND NAILS STGD.
- WHERE PANELS ARE APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6 INCHES ON CENTER ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3 INCH NOMINAL OR WIDER AND NAILS ON EACH SIDE SHALL BE STAGGERED.
- NAIL 2 - 2x END STUDS TOGETHER WITH 16d @ 6" O.C. END STUDS OR POST OF EVERY SHEARWALL SHALL HAVE A HOLDOWN.
- SILL BOLTS PER 9/S1.1
- SILL POST-INSTALLED A.B.'s INTO CONCRETE TO BE THREADED ROD EPOXIED w/ SIMPSON SET-3G (ESR #4057) MIN EMBED= 7 3/4", MIN EDGE DIST.=2.5",
- POST-INSTALLED 1/2" DIA. A.B.'s INTO CONCRETE TO BE THREADED ROD EPOXIED w/ SIMPSON SET-3G (ESR #4057) MIN EMBED= 8", MIN EDGE DIST.=2.5", DTT2Z HD USING 1/2" DIA. C.I.P. F1554 GR.35 HEADED BOLTS x8" EMB. AND MIN EDGE DIST.=3".
- SEE $\frac{9}{S1.1}$ FOR ADDITIONAL INFORMATION.



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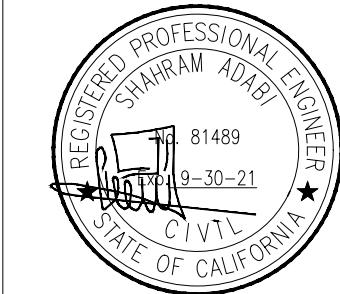
1430 C Street, Rio Linda,
CA 95673
ADU Conversion

FOUNDATION PLAN & DETAILS

DESCRIPTION
ISSUE FOR CONSTRUCTION

DATE
11/16/2020

REV



SIGN DATE: 11-16-2020

DATE: AS NOTED

SCALE: AS NOTED

DRAWN BY: SA

CKD BY: DE

PROJECT #: 2020006058

S3.0

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