

CODE: INTERNATIONAL BUILDING CODE (IBC) 2018

LOADINGS
FLOOR LIVE LOAD..... 40 PSF
DECK LIVE LOAD..... 60 PSF
ROOF SNOW LOAD..... 25 PSF

WIND CRITERIA
BUILDING CLASSIFICATION..... II
ULTIMATE WIND SPEED..... 97 MPH
WIND EXPOSURE..... B
TOPOGRAPHIC FACTOR, Kzt..... 1.0

SEISMIC CRITERIA
SEISMIC RISK CATEGORY..... II
SPECTRAL RESPONSE COEFFICIENT, Ss 1.40
SPECTRAL RESPONSE COEFFICIENT, S1 0.50
SEISMIC SITE CLASS D
SEISMIC DESIGN CATEGORY..... D

STRUCTURAL DESCRIPTIONS

GENERAL CONDITIONS

- 1. THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE STRUCTURAL ENGINEER IN WRITINGS OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK...
2. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT...
3. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS...
4. IF A SPECIFIC DETAIL IS NOT SHOWN FOR ANY PART OF THE WORK, THE CONSTRUCTION SHALL BE THE SAME AS FOR SIMILAR WORK...
5. WORKING DIMENSIONS SHALL NOT BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS...
6. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY CONDITION THAT, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE...
7. THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES...
8. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS...
9. ALL CONSTRUCTION SHALL BE DONE WITH MATERIALS, METHODS, AND WORKMANSHIP ACCEPTED AS GOOD PRACTICE BY THE CONSTRUCTION INDUSTRY AND IN CONFORMANCE WITH THE PROVISIONS OF PREVAILING CODE EDITION OF THE "INTERNATIONAL BUILDING CODE" (IBC) AND STANDARDS REFERENCED THEREIN...
10. PIPES, DUCTS, SLEEVES, OPENINGS, POCKETS, CHASES, BLOCK-OUTS, ETC., SHALL NOT BE PLACED IN SLABS, FOUNDATIONS, ETC., NOR IN ANY STRUCTURAL MEMBER BE CUT FOR SUCH ITEMS, UNLESS SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS...
11. ALTERNATE ASSEMBLIES AND MATERIALS WILL BE CONSIDERED FOR REVIEW. ENGINEER MAY REQUEST PAYMENT FOR REVIEW.

DIMENSIONAL LUMBER, ANCHOR BOLT AND NAILING SPECIFICATIONS

- 1. MEET REQUIREMENTS OF PS 20-70 AND NATIONAL GRADING RULES FOR SOFTWOOD DIMENSIONAL LUMBER. BEAR STAMP OF W.W.P.A.
2. MINIMUM DIMENSIONAL LUMBER GRADES TO BE:
WALL STUDS, 2X, 3 X..... HF STUD GRADE
WALL PLATES, 2X, 3X..... HF STANDARD GRADE U.N.O
JOISTS, 2 X 6..... HF #2
JOISTS, 2 X 8 AND UP..... DF #2
BEAMS, HEADERS, 6X..... DF #2
BEAMS, HEADERS, 4X..... DF #2, WWPA GRADING
POSTS, 4X, 6X..... DF #2 U.N.O
LUMBER NOT NOTED HERE... DF #2 U.N.O
3. PROVIDE STANDARD CUT WASHERS FOR BOLT HEADS AND NUTS BEARING AGAINST WOOD.

- 4. ALL SILLS OR PLATES RESTING ON CONCRETE OR MASONRY THAT IS IN CONTACT WITH OR RESTING ON FOUNDATIONS SHALL BE PRESSURE-TREATED DOUGLAS FIR/ HEMFIR IN ACCORDANCE TO WITH AWPA U1 (PLANT/SHOP TREATMENT) AND M4 (FIELD TREATMENT) STANDARDS. ALL BEARING WALL PLATES SHALL HAVE 5/8" O X 10" I/BOLTS PLACED AT MAXIMUM OF 9" FROM THE END OF A PLATE AND SPACED AT INTERVALS SHOWN ON THE SHEARWALL SCHEDULE (MAXIMUM 4'-0" OC SPACING). PROVIDE BP PLATE WASHER AT ALL FOUNDATION SILL PLATE ANCHOR BOLTS. PROVIDE TWO ANCHOR BOLTS MINIMUM PER SECTION OF SILL. FOR NON-SHEARWALL, PLACE ANCHORS AT 48".

- 5. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER.

- 6. NAILS: COMMON WIRE NAILS. NAILING IN ACCORDANCE WITH IBC TABLE 2304.9.1.

- 7. PRESSURE TREATED WOOD: ALL NAILS INTO PT WOOD SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 OR STAINLESS STEEL. ALL METAL CONNECTORS IN CONTACT WITH PT WOOD SHALL BE HOT DIPPED GALVANIZED AND MEET ASTM A653 CLASS G185 (1.85 OZ OF ZINC PER SQ FT MINIMUM) OR TYPE 304 / 316 STAINLESS STEEL SHIMSPON Z-MAX CONNECTORS MEET THIS REQUIREMENT. FASTENERS AND CONNECTORS USED TOGETHER SHALL BE OF THE SAME TYPE (E.G. HOT DIPPED NAILS WITH HOT DIPPED HANGERS)

- 8. ALL LUMBER WITH A LEAST DIMENSION OF 2" (NOMINAL) SHALL BE STAMPED "SURFACE-DRY" AND SHALL HAVE A MOISTURE CONTENT WHEN SURFACED AND WHEN INSTALLED OF NO MORE THAN 19 PERCENT. LUMBER WITH A LEAST DIMENSION OF 4" (NOMINAL) OR GREATER SHALL BE STAMPED "SURFACE-GREEN" AND AIR-DRIED TO A MOISTURE CONTENT OF NOT MORE THAN 19 PERCENT PRIOR TO ITS USE IN FRAMING THE STRUCTURE.

- 9. NOTCHING AND BORING OF BEAMS AND JOISTS IS NOT ALLOWED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

Table with columns: REQUIRED? (Y/N), MATERIAL / ACTIVITY, and EXTENT. Contains rows for Fabricators, Steel Construction, Concrete Construction, and Wood Construction.

Table with columns: REQUIRED? (Y/N), MATERIAL / ACTIVITY, and EXTENT. Contains rows for Steel Construction Other Than Structural Steel, Concrete Construction, and Wood Construction.

Table with columns: REQUIRED? (Y/N), MATERIAL / ACTIVITY, and EXTENT. Contains rows for Concrete Construction and Wood Construction.

Table with columns: REQUIRED? (Y/N), MATERIAL / ACTIVITY, and EXTENT. Contains rows for Foundation, Steel Construction, and Wood Construction.

Notes:
1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested.

- 3. Special Inspections as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2
4. Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element.
5. NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.

Table with columns: LOCATION, COMP. STRENGTH, W/C RATIO, AIR CONTENT, REMARK. Contains rows for CONCRETE AND REINFORCING and FOUNDATION.

Table with columns: REQUIRED? (Y/N), MATERIAL / ACTIVITY, and EXTENT. Contains rows for Masonry Construction, Steel Construction, Concrete Construction, Wood Construction, and Foundation.

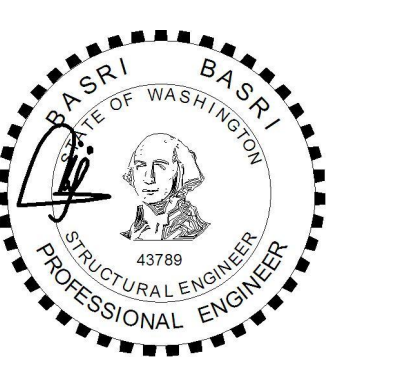
STRUCTURAL AND MISCELLANEOUS STEEL

- 1. The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work.

- 1705.10.1 Structural Wood Special Inspections For Wind Resistance
1. Inspection of field gluing operations of elements of the main windforce-resisting system
2. Inspection of nailing, bolting, anchoring and other fastening of components within the main windforce-resisting system
1705.10.2 Cold-formed Steel Special Inspections For Wind Resistance
1. Inspection during welding operations of elements of the main windforce-resisting system
2. Inspection for screw attachment, bolting, anchoring and other fastening of components within the main windforce-resisting system

1705.11.1 Structural Steel Special Inspections for Seismic Resistance
Inspection of structural steel in accordance with AISC 341
1705.11.2 Structural Wood Special Inspections for Seismic Resistance
1. Inspection of field gluing operations of elements of the seismic-force resisting system
2. Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system
1705.11.3 Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance
1. Inspection during welding operations of elements of the seismic-force-resisting system
2. Inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system

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TSO ADDITION

8802 SE 37TH ST
MERCER ISLAND, WA
98040

DRAWING INFO

ISSUE DATE 07-07-23

ISSUED FOR REVIEW

PROJECT NO.22126

ENGINEER BB

REVISION SCHEDULE

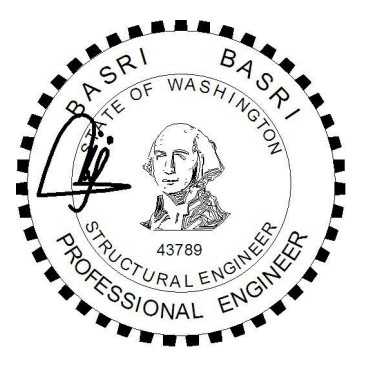
Table with columns: NO., DATE, DESCRIPTION

DRAWING LIST

Table with columns: SHEET NUMBER, SHEET NAME, ISSUE DATE. Lists sheets S-0, S-1, S-2, S-3.

Grand total: 4

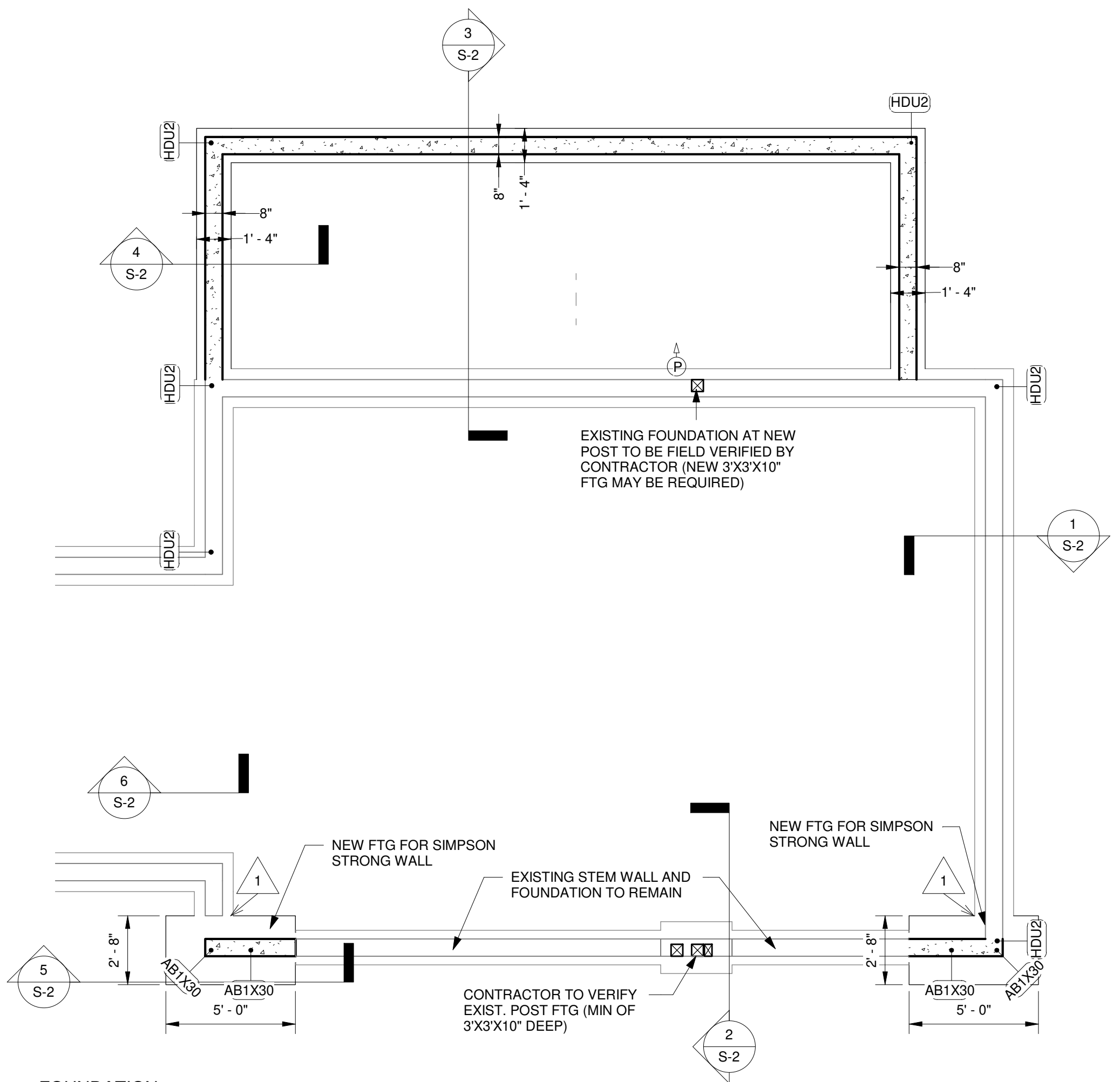
GENERAL NOTES AND SPECIFICATIONS S-0



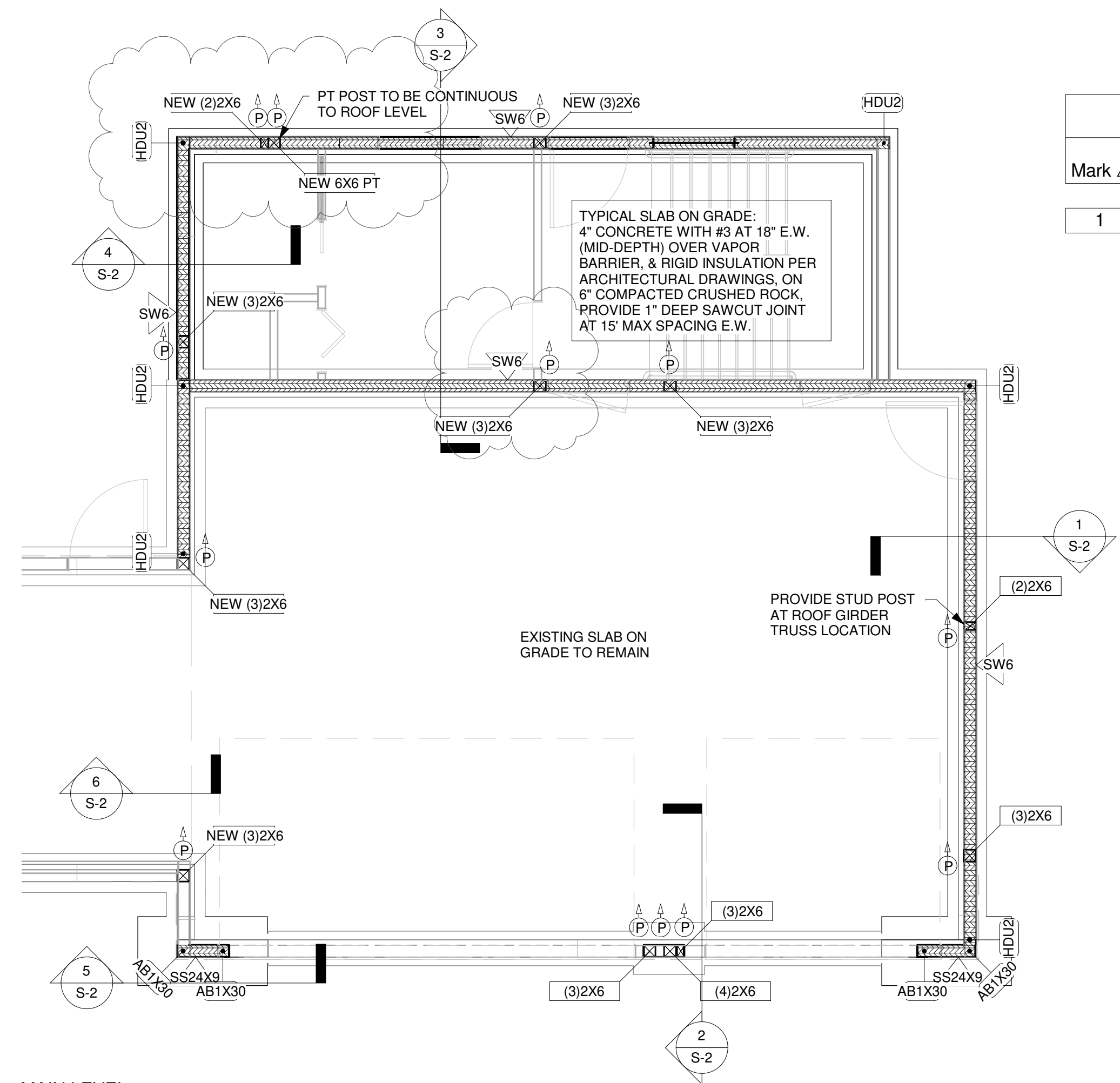
TSO ADDITION

8802 SE 37TH ST
MERCER ISLAND, WA
98040

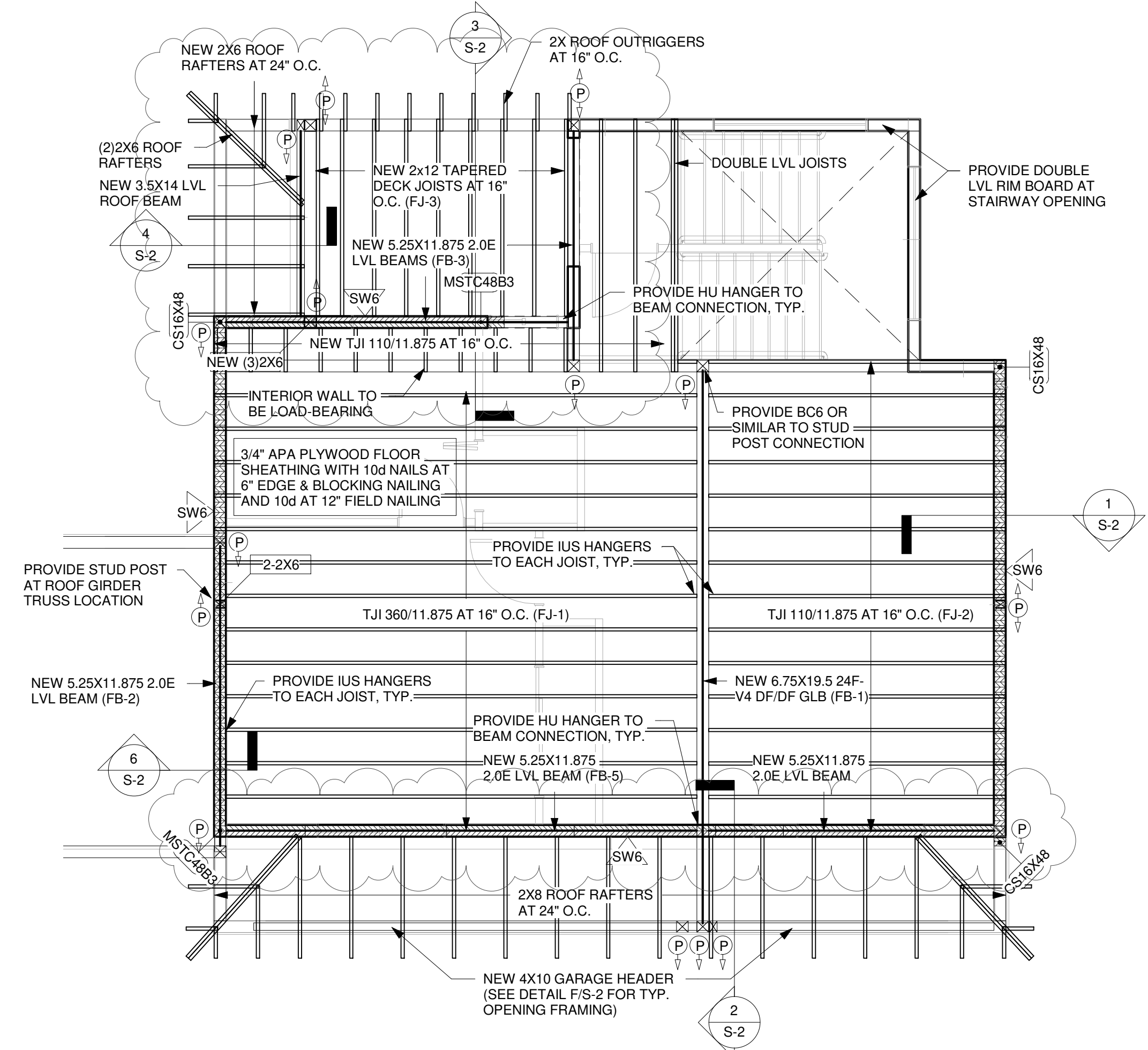
FOOTING SCHEDULE						
Mark Δ	TYPE	WIDTH / DIAMETER	LENGTH / DIAMETER	THICKNESS	COUNT	REINFORCEMENT
1	Footing-Rectangular	2' - 8"	5' - 0"	1' - 0"	2	3 - #4 E.W.



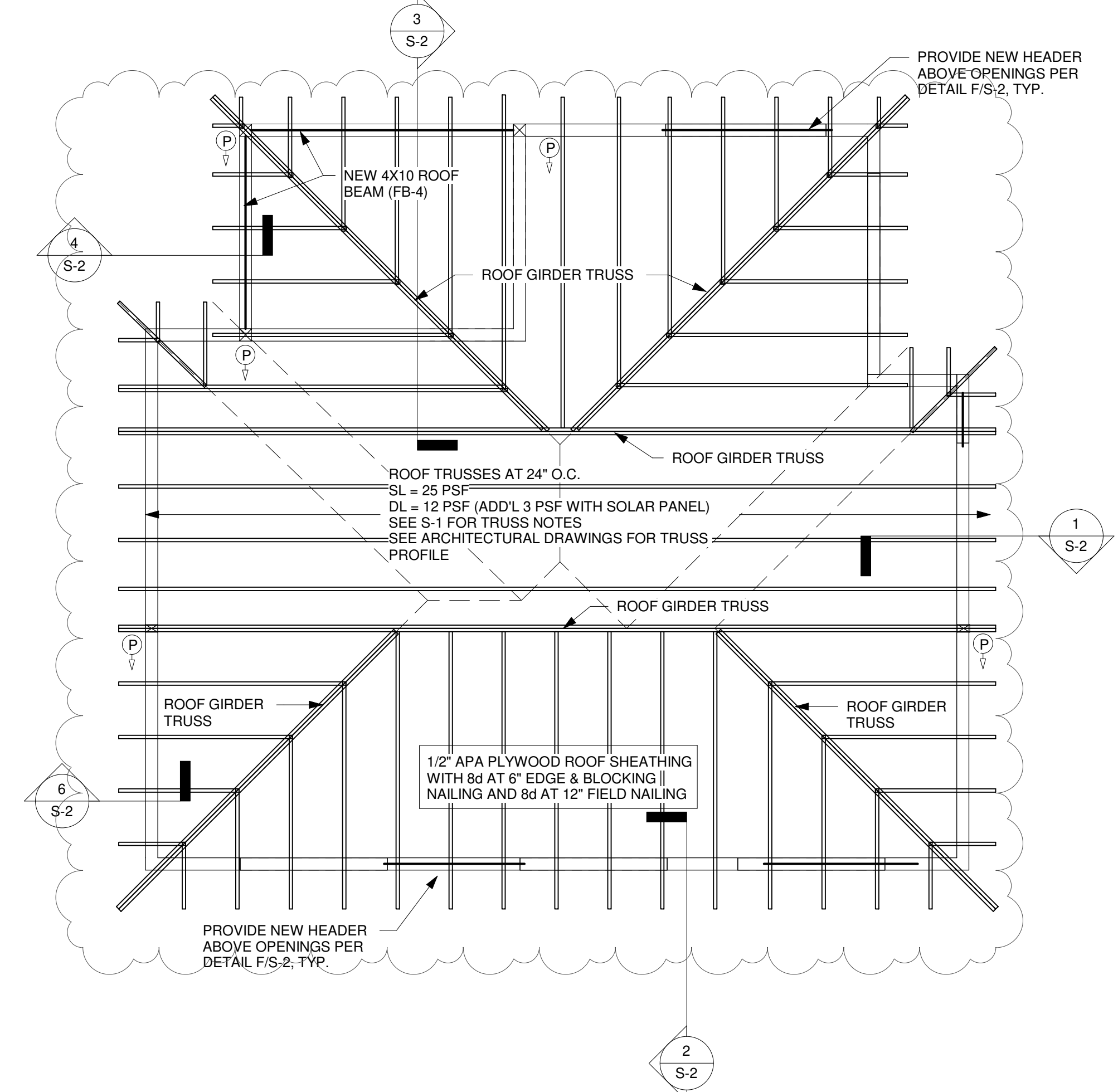
A FOUNDATION
1/4" = 1'-0"



B MAIN LEVEL
1/4" = 1'-0"



C UPPER LEVEL
1/4" = 1'-0"



D ROOF PLAN
1/4" = 1'-0"

IMPORTANT NOTES ON DRAWING REVIEW, FIELD VERIFICATION, TEMPORARY SHORING AND WATERPROOFING:

- CONTRACTOR MUST REVIEW STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION & NOTIFY DESIGN TEAM/OWNER OF ANY DISCREPANCY IN COMPARISON WITH ARCHITECTURAL DOCUMENTS OR FIELD CONDITIONS.
- IN REMODEL/RETROFIT PROJECTS, CONTRACTOR MUST FIELD VERIFY & NOTIFY DESIGN TEAM/OWNER OF EXISTING MECHANICAL, PLUMBING, AND ELECTRICAL LINES THAT MAY INTERFERE WITH STRUCTURAL WORK PRIOR TO CONSTRUCTION. STRUCTURAL DRAWINGS MAY NOT REFLECT ALL EXISTING FRAMING CONDITIONS DUE TO LIMITED AVAILABLE INFORMATION.
- CONTRACTOR IS SOLELY RESPONSIBLE IN PROVIDING PROPER TEMPORARY SHORING PRIOR TO REMOVING ANY STRUCTURAL ELEMENTS.
- ENGINEER IS NOT RESPONSIBLE FOR WATERPROOFING SYSTEM OR DETAILS. CONTRACTOR/OWNER SHALL CONSULT WITH QUALIFIED PROFESSIONALS AS REQUIRED.

IMPORTANT NOTES ON FOUNDATION AND FRAMING:

- ALL FOOTINGS SHALL BEAR ON SUITABLE SOIL SUCH AS MIN. OF MEDIUM DENSE NATIVE SOIL OR COMPACTED STRUCTURAL FILL (NO SOFT OR ORGANIC MATERIALS). GEOTECHNICAL ENGINEER MAY BE REQUIRED TO ASSESS EXISTING SOIL CONDITIONS.
- FOR FRAMING LUMBER TYPES AND GRADES, AND CONCRETE MIX REQUIREMENTS PLEASE SEE S-0
- FOR PLYWOOD/OSB SHEARWALL SCHEDULE, PLEASE SEE S-XX
- FOR COMMON HEADER FRAMING DETAIL AND HEADER SIZE, SEE S-XX
- PROVIDE (2) 2X6 OR (3) 2X4 STUD POSTS AT EACH END OF BEAMS, UNLESS NOTED OTHERWISE ON PLAN
- SLAB ON GRADE SHALL BE MIN. 4" THICK WITH #3 AT 18" EACH WAY (AT MID-DEPTH) ON 6" COMPACTED CRUSHED ROCK. SAWCUT JOINT (1" DEEP) AT 15' MAX. SPACING EACH WAY SHALL BE DONE WITHIN 4 TO 12 HOURS AFTER FINISHING, DEPENDING ON WEATHER.
- FLOOR SHEATHING SHALL BE 3/4" PLYWOOD OR OSB WITH 10d AT 6" NAILING AT EDGES & BLOCKING AND AT 12" AT FIELD
- ROOF SHEATHING SHALL BE 1/2" PLYWOOD OR OSB WITH 8d AT 6" NAILING AT EDGES & BLOCKING AND AT 12" AT FIELD

IMPORTANT NOTES ON TRUSS AND LUMBER PACKAGE/LUMBER PACKAGE REVIEW:

- TRUSS FRAMING LAYOUT SHOWN IS GENERAL CONCEPT ONLY, CONTRACTOR/TRUSS SUPPLIER MUST SUBMIT TRUSS SHOP DRAWINGS INCLUDING TRUSS TEMPORARY/PERMANENT BRACING PLANS FOR ENGINEER'S REVIEW
- TRUSS FRAMING PROFILE/LAYOUT SHOULD CONFORM TO BOTH STRUCTURAL AND ARCHITECTURAL DRAWINGS. ANY DEVIATIONS SHALL BE APPROVED BY ENGINEER/ARCHITECT PRIOR TO TRUSS DESIGN WORK.
- TRUSS DEFLECTION CRITERIA:
FLOOR/DECK TOTAL LOAD = L/480
FLOOR/DECK LIVE LOAD = L/600
ROOF TOTAL LOAD = L/240
ROOF SNOW LOAD = L/300
** MAXIMUM TOTAL LOAD DEFLECTION SHOULD NOT EXCEED 1.0" IN ALL CASES
- FLOOR/ROOF FRAMING LAYOUT AND CONNECTORS (SUCH AS LUMBER PACKAGE BY SUPPLIERS) MUST BE SUBMITTED FOR ENGINEER'S REVIEW PRIOR TO CONSTRUCTION

FRAMING SYMBOLS:

SS24	SIMPSON WSW WOOD STRONG WALL (24" WIDE)	⊕	CONTINUOUS POST
SW6	PLYWOOD SHEARWALL	⊖	POST STOPS BELOW THIS FLOOR
A	SHEARWALL HOLDOWN	⊙	POST STARTS AT THIS FLOOR

LEGEND AND NOTES
1/4" = 1'-0"

DRAWING INFO

ISSUE DATE 07-07-23

ISSUED FOR REVIEW

PROJECT NO.22126

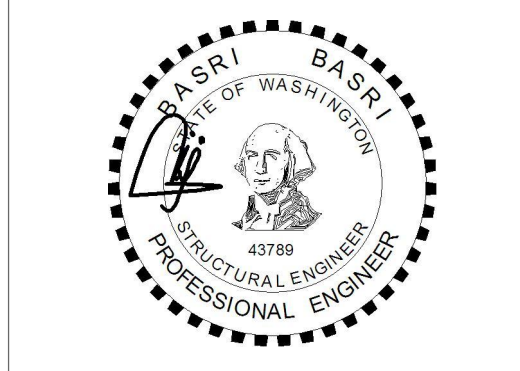
ENGINEER BB

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03-20-23	Revision 1

FRAMING PLANS

S-1



TSO ADDITION

8802 SE 37TH ST
MERCER ISLAND, WA
98040

DRAWING INFO

ISSUE DATE 07-07-23

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PROJECT NO.22126

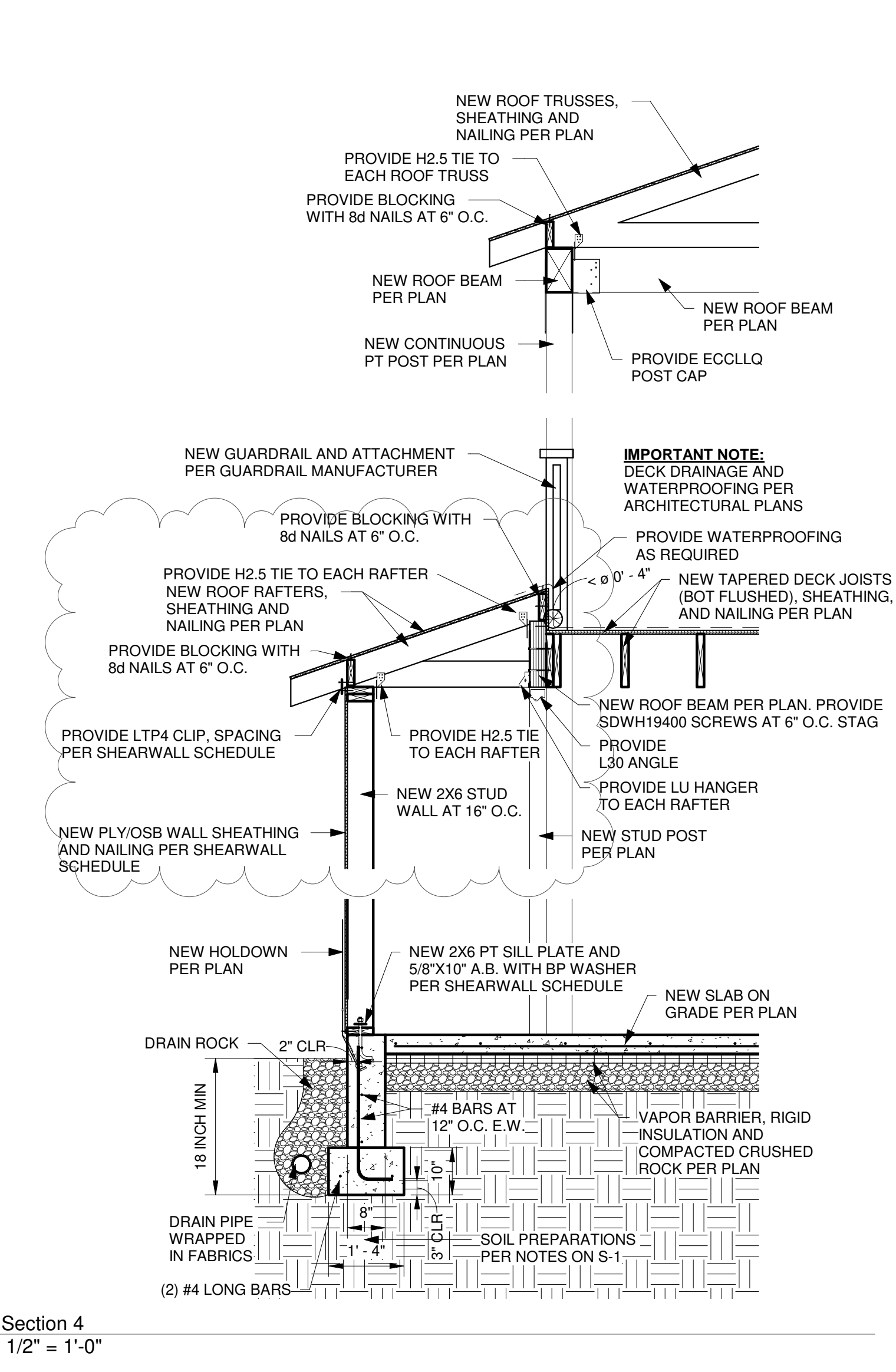
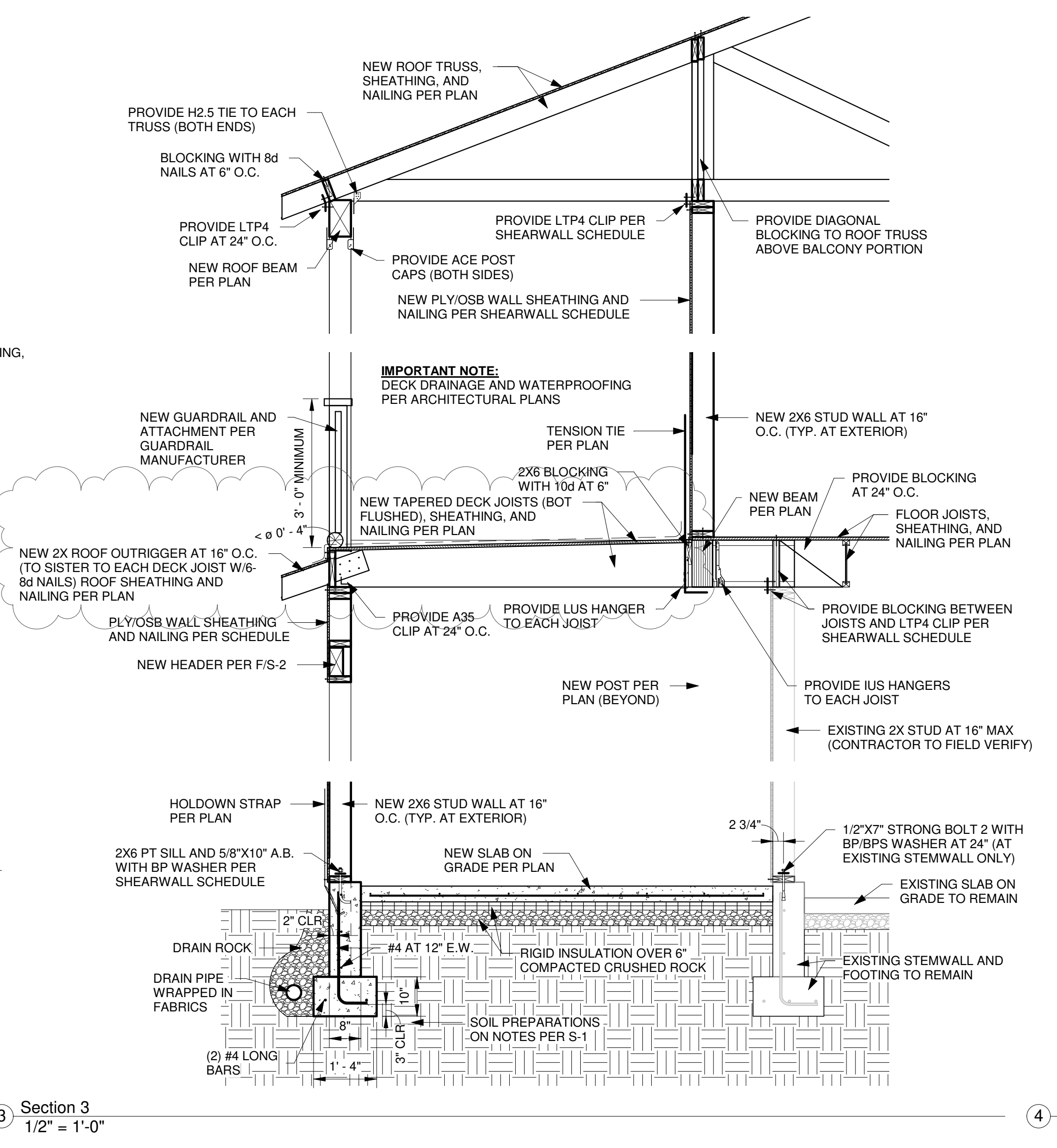
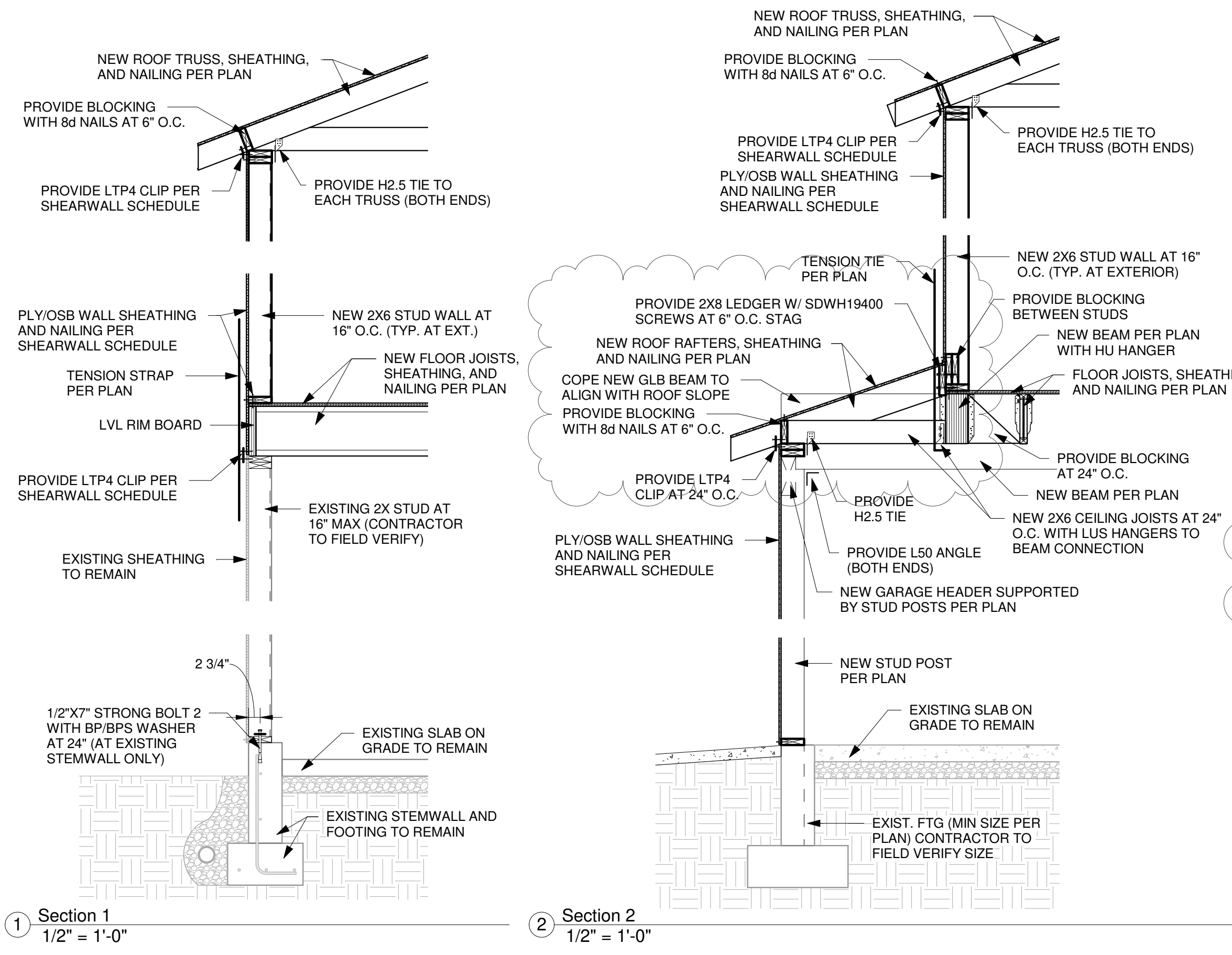
ENGINEER BB

REVISION SCHEDULE

NO.	DATE	DESCRIPTION
1	03-20-23	Revision 1

FRAMING DETAILS

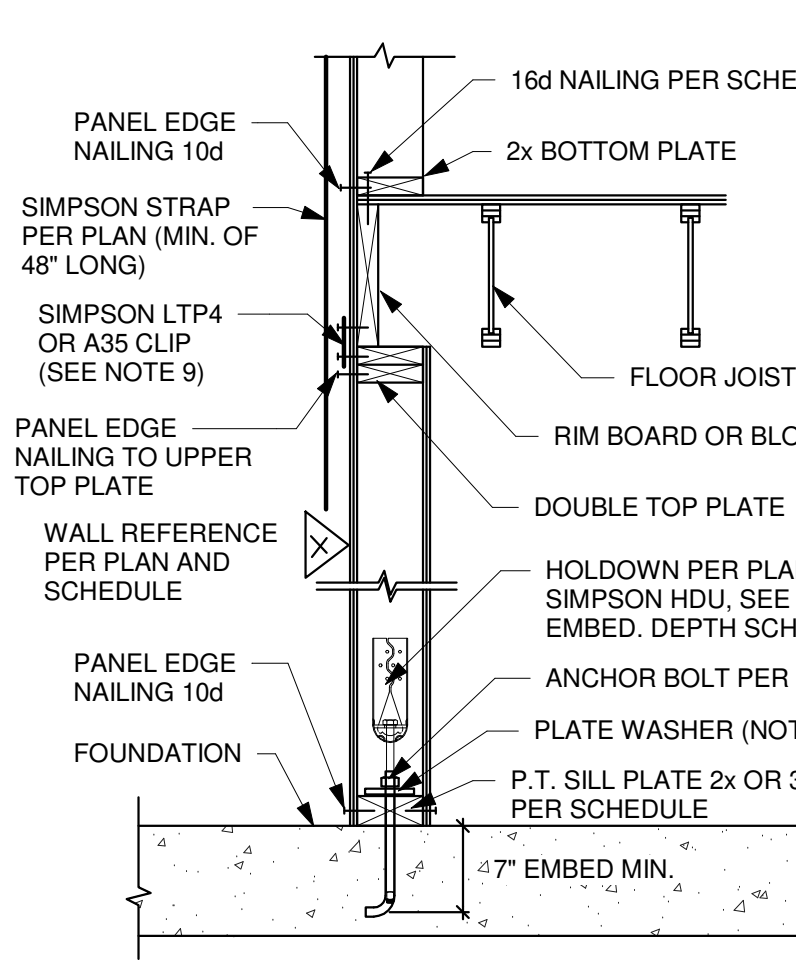
S-2
Copyright b2 Structural Engineers 2008



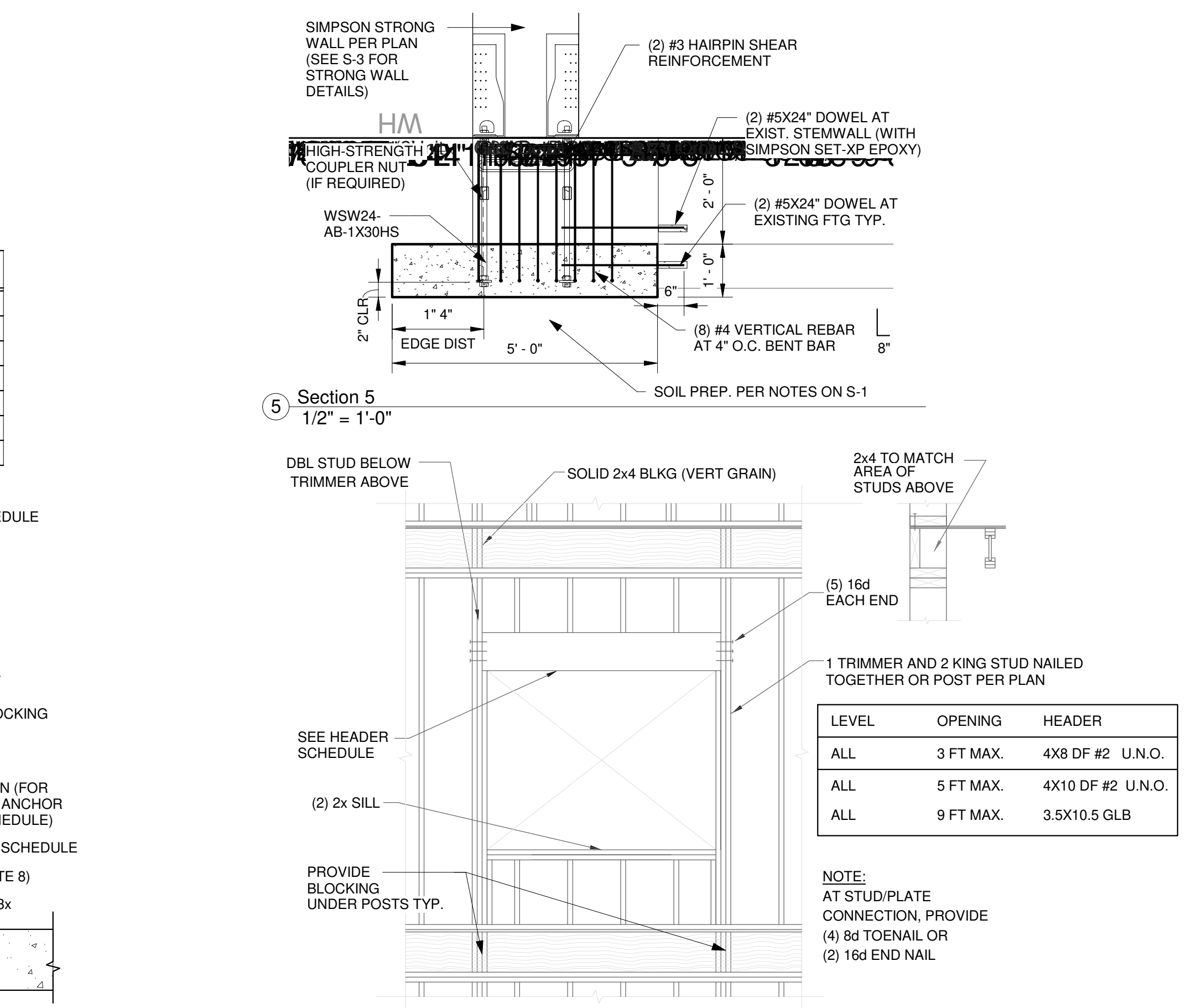
TYPE	PLYWOOD OR OSB SHEATHING (NOTE 7)	PANEL EDGE NAILING (NOTE 4)	PANEL EDGE STUDS AND BLKG	ANCHOR BOLTS AT SILL PLATE (NOTE 8)	TOP/SILL PLATE TO BLOCKING/ RIM (NOTE 9)	BOTTOM PLATE TO BLOCKING/ RIM (NOTE 4)	CAPACITY (LRFD) (SEISMIC/WIND)
SW6	15/32" PLY/OSB ONE SIDE	10d COM AT 6"	2x	5/8" AT 36" O.C.-2x	SIMPSON LTP4 AT 24" O.C.	16d COM AT 6" O.C.-NARROW	496 PLF/ 696 PLF
SW4	15/32" PLY/OSB ONE SIDE	10d COM AT 4"	2x (SEE NOTE 5)	5/8" AT 24" O.C.-2x	SIMPSON LTP4 AT 16" O.C.	16d COM AT 4" O.C.-NARROW	736 PLF/ 1032 PLF
SW3	15/32" PLY/OSB ONE SIDE	10d COM AT 3"	3x	5/8" AT 18" O.C.-2x	SIMPSON LTP4 AT 12" O.C.	16d COM AT 3" O.C.-WIDE	960 PLF/ 1344 PLF
SW2	15/32" PLY/OSB ONE SIDE	10d COM AT 2"	3x	5/8" AT 12" O.C.-2x	SIMPSON LTP4 AT 8" O.C.	16d COM AT 2" O.C.-WIDE	1232 PLF/ 1724 PLF
SW44	15/32" PLY/OSB TWO SIDES	10d COM AT 4"	2x	5/8" AT 18" O.C.-3x	SIMPSON LTP4 AT 16" O.C. B.S.	(2) 16d COM AT 4" O.C.-WIDE	1472 PLF/ 2064 PLF
SW33	15/32" PLY/OSB TWO SIDES	10d COM AT 3"	3x	5/8" AT 16" O.C.-3x	SIMPSON LTP4 AT 12" O.C. B.S.	(2) 16d COM AT 3" O.C.-WIDE	1920 PLF/ 2688 PLF
SW22	15/32" PLY/OSB TWO SIDES	10d COM AT 2"	3x	5/8" AT 12" O.C.-3x	SIMPSON LTP4 AT 8" O.C. B.S.	(2) 16d COM AT 2" O.C.-WIDE	2464 PLF/ 3448 PLF

SHEARWALL SCHEDULE NOTES:

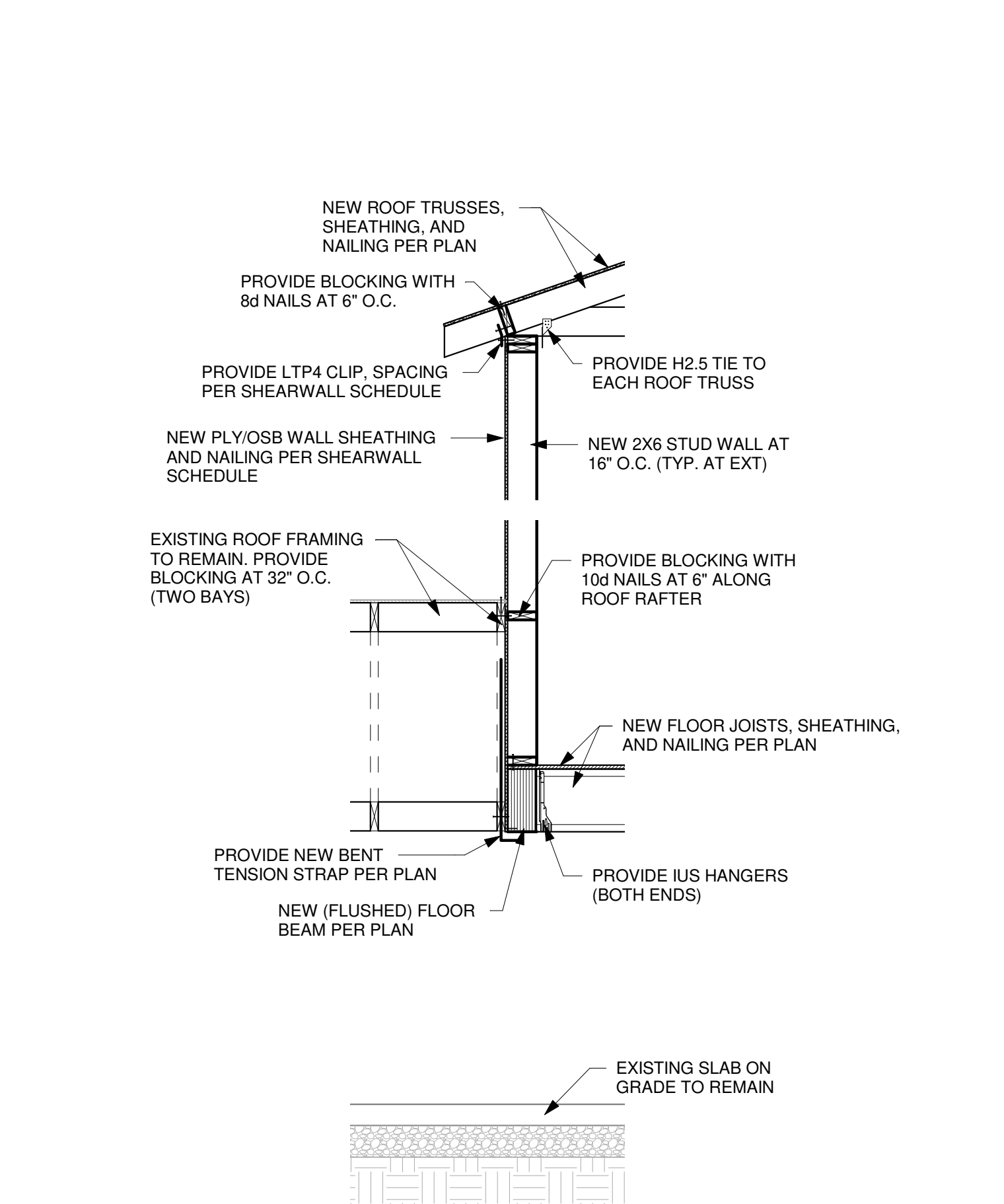
- ALL PANEL EDGES TO OCCUR OVER STUDS, PLATES, RIMS OR HORIZONTAL BLOCKING AT WALLS
- NAIL SHEATHING TO INTERMEDIATE SUPPORTS/ FIELD NAILING 10d AT 12" O.C.
- ALL NAILS INTO 3x MEMBERS SHALL BE STAGGERED. (2)2x STUDS MAY BE USED IN LIEU OF 3x STUDS AT PANEL JOINTS. NAIL STUDS TOGETHER W/2 ROWS 16d COMMON AT 6" O.C. AT SINGLE SIDE SHEATHING AND NAIL WITH 2 ROWS OF 16d COMMON AT 3" O.C. AT DOUBLE SHEATHED WALLS.
- COM DENOTES COMMON NAILS. MIN. NAIL PENETRATION INTO PLATE, RIM OR BLOCKING SHALL BE 1 5/8". STAGGER BOTTOM PLATE NAILING
- FOR SHEARWALL SW4, ALL FRAMING MEMBERS RECEIVING EDGE NAILINGS FROM ABUTTING PANELS SHALL BE 3X OR (2) 2X NAILED TOGETHER WITH 16d AT 6"
- WHERE SHEATHING IS APPLIED TO BOTH SIDES OF WALL, OFFSET PANEL EDGES TO FALL ON DIFFERENT STUDS.
- PROVIDE SHEAR WALL SHEATHING AND NAILING FOR ENTIRE LENGTH OF WALLS NOTED ON PLAN. PROVIDE HOLD-DOWNS PER PLAN AT EACH END OF WALL, UNO. PROVIDE (2) 2X STUDS AT ENDS OF ALL SHEARWALL. FACE NAIL MULTIPLE STUDS WITH 16d AT 12" PROVIDE PANEL EDGE NAILING IN EACH HOLD-DOWN STUD AT END OF WALL.
- ALL FOUNDATION SILL PLATES SHALL BE PT MEMBERS AND THE ANCHOR BOLTS SHALL HAVE MIN. OF 7" EMBEDMENT WITH SIMPSON'S BP/ BPS WASHER PLATE. END OF WALL ANCHOR BOLTS SHALL BE LOCATED MAX 12" AND MIN 5" FROM END OF THE PLATE.
- WHERE NOTED IN DETAILS, USE SIMPSON A35 IN LIEU OF LTP4 PLATES SPACE AT 2/3 OF LTP4 SPACING.



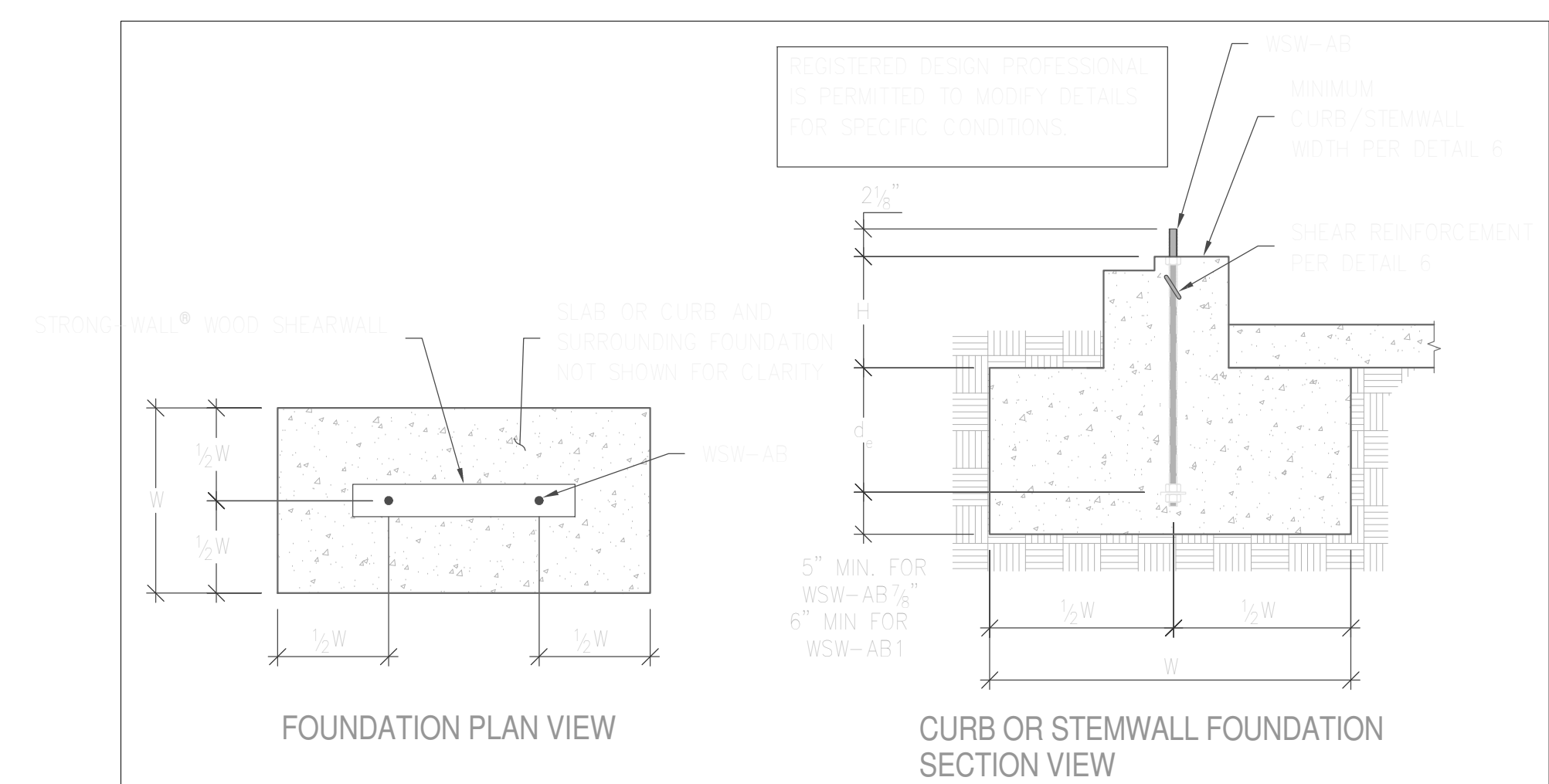
E SHEARWALL SCHEDULE
3/4" = 1'-0"



F TYP. WALL OPENING FRAMING
3/4" = 1'-0"



G Section 6
1/2" = 1'-0"

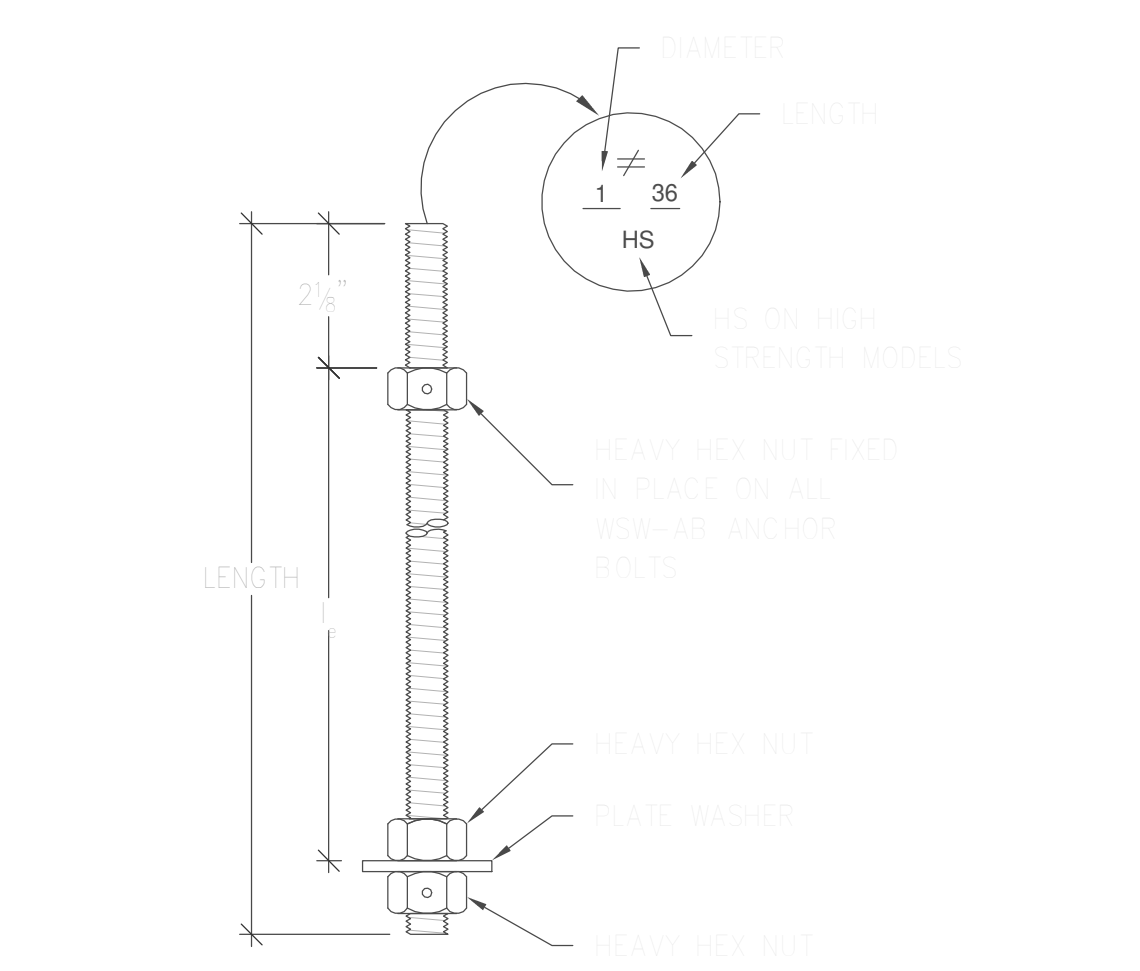


WSW ANCHORAGE SOLUTIONS FOR 2500 PSI CONCRETE

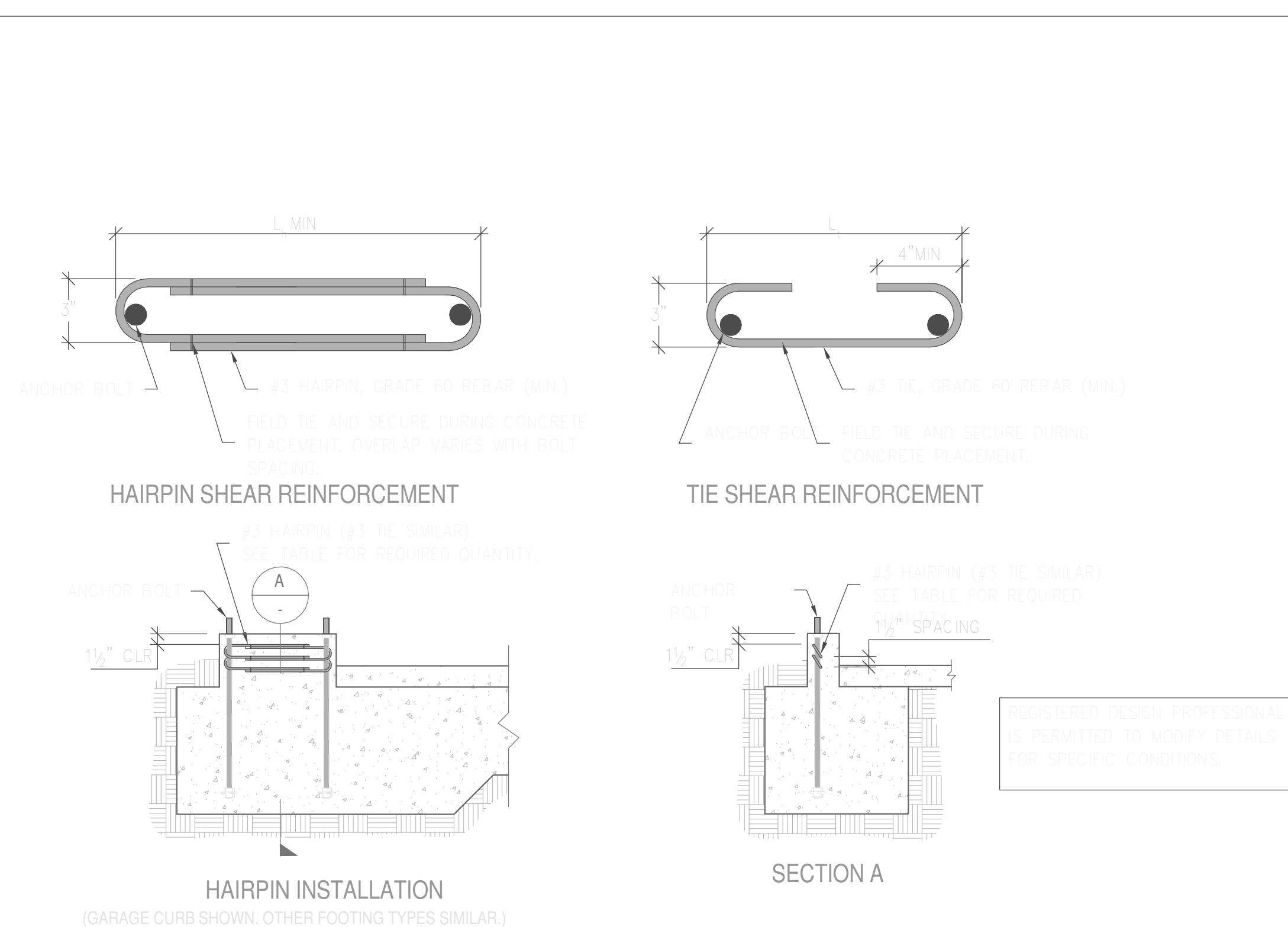
DESIGN CRITERIA	CONCRETE CONDITION	ANCHOR STRENGTH ASD ALLOWABLE UPLIFT	WSW-AB 1/8" ANCHOR BOLT			WSW-AB1 ANCHOR BOLT		
			W (in)	de (in)	ASD ALLOWABLE UPLIFT (lbs)	W (in)	de (in)	ASD ALLOWABLE UPLIFT (lbs)
SEISMIC	CRACKED	STANDARD	1 1/2	1/2	1000	1 1/2	1/2	1000
		HIGH STRENGTH	1 1/2	1/2	1500	1 1/2	1/2	1500
	UNCRACKED	STANDARD	1 1/2	1/2	1000	1 1/2	1/2	1000
		HIGH STRENGTH	1 1/2	1/2	1500	1 1/2	1/2	1500
WIND	CRACKED	STANDARD	1 1/2	1/2	1000	1 1/2	1/2	1000
		HIGH STRENGTH	1 1/2	1/2	1500	1 1/2	1/2	1500
	UNCRACKED	STANDARD	1 1/2	1/2	1000	1 1/2	1/2	1000
		HIGH STRENGTH	1 1/2	1/2	1500	1 1/2	1/2	1500

NOTES:

- ANCHORAGE DESIGNS CONFORM TO ACI 318-11 APPENDIX D AND ACI 318-14 WITH NO SUPPLEMENTARY REINFORCEMENT FOR CRACKED OR UNCRACKED CONCRETE AS NOTED.
- ANCHOR STRENGTH INDICATES REQUIRED GRADE OF WSW-AB ANCHOR BOLT: STANDARD (ASTM F1554 GRADE 36) OR HIGH STRENGTH (ASTM A443).
- SEISMIC WITH RES SEISMIC DESIGN CATEGORY C, D, DETACHED 1 AND 2 FAMILY DWELLINGS IN SRC D MAY USE WIND ANCHORAGE SOLUTIONS. SEISMIC ANCHORAGE DESIGNS CONFORM TO ACI 318-11 SECTION D.3.3.4.3 AND ACI 318-14 SECTION 17.2.3.4.3.
- WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SRC C.
- FOUNDATION DIMENSIONS ARE FOR ANCHORAGE ONLY. FOUNDATION DESIGN (SIZE AND REINFORCEMENT) BY OTHERS. THE REGISTERED DESIGN PROFESSIONAL MAY SPECIFY ALTERNATE EMBEDMENT, FOOTING SIZE OR ANCHOR BOLT.
- REFER TO SECTION VIEW FOR 4.



WSW PANEL MODEL	MODEL NO.	DIAMETER	LENGTH	I_b
WSW12 AND WSW18	WSW-AB1000	1/2"	10"	1.0
	WSW-AB1500	1/2"	15"	1.5
	WSW-AB2000	1/2"	20"	2.0
	WSW-AB2500	1/2"	25"	2.5
WSW24	WSW-AB3000	3/8"	30"	3.0
	WSW-AB3500	3/8"	35"	3.5
	WSW-AB4000	3/8"	40"	4.0
	WSW-AB4500	3/8"	45"	4.5



STRONG-WALL® WOOD SHEARWALL SHEAR ANCHORAGE

MODEL	L OR L_v (in.)	SEISMIC ¹		WIND ⁴		ASD ALLOWABLE SHEAR LOAD V (lbs.) ⁶	
		SHEAR REINFORCEMENT	MIN. CURB/STEMWALL WIDTH (in.)	SHEAR REINFORCEMENT	MIN. CURB/STEMWALL WIDTH (in.)	6" MIN CURB/STEMWALL	
						UNCRACKED	CRACKED
WSW12	10"	(1) #3 HARPIN	6"	(1) #3 HARPIN	6"	1200	1200
WSW18	15"	(1) #3 HARPIN	6"	(1) #3 HARPIN	6"	1800	1800
WSW24	20"	(1) #3 HARPIN	6"	(1) #3 HARPIN	6"	2400	2400

HARPIN REINFORCEMENT ACHIEVES MAXIMUM ALLOWABLE SHEAR LOAD OF THE WSW.

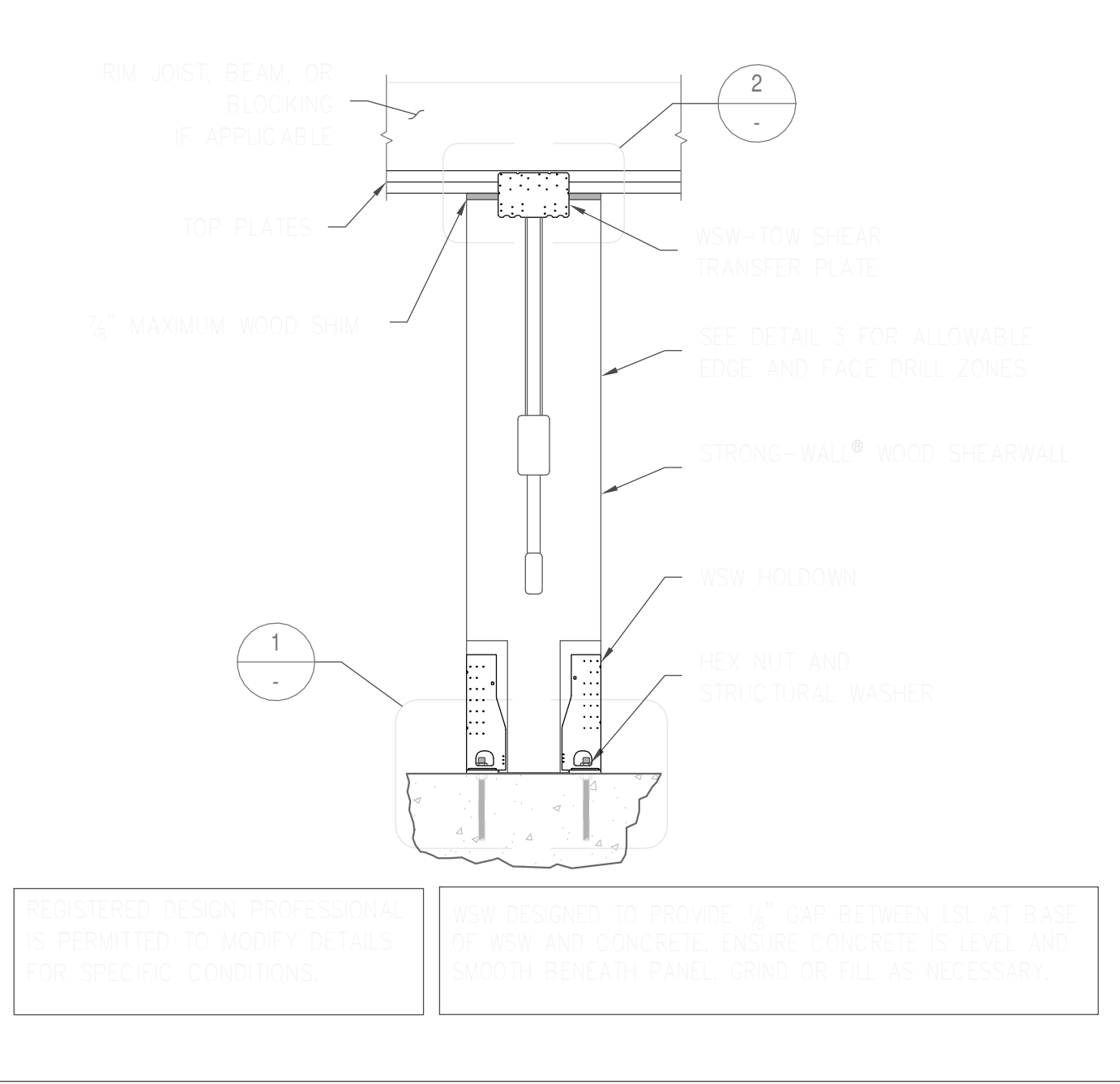
NOTES:

- SHEAR ANCHORAGE DESIGNS CONFORM TO ACI 318-11 AND ACI 318-14 AND ASSUME MINIMUM 2500 PSI CONCRETE.
- SHEAR REINFORCEMENT IS NOT REQUIRED FOR INTERIOR FOUNDATION APPLICATIONS (PANEL INSTALLED AWAY FROM EDGE OF CONCRETE) OR BRACED WALL PANEL APPLICATIONS.
- SEISMIC INDICATES SEISMIC DESIGN CATEGORY C THROUGH F. DETACHED 1 AND 2 FAMILY DWELLINGS IN SRC C MAY USE WIND ANCHORAGE SOLUTIONS.
- WIND INCLUDES SEISMIC DESIGN CATEGORY A AND B AND DETACHED 1 AND 2 FAMILY DWELLINGS IN SRC C.
- WHERE NOTED, MINIMUM CURB/STEMWALL WIDTH IS 6 INCHES WHEN STANDARD STRENGTH ANCHOR BOLT IS USED.
- 1/8" DIA. IS TO BE FOR WSW12 WHEN PANEL DESIGN SHEAR CAPACITY EXCEEDS TABULATED ANCHORAGE ALLOWABLE SHEAR LOAD.
- #4 GRADE 40 SHEAR REINFORCEMENT MAY BE SUBSTITUTED FOR WSW SHEAR ANCHORAGE SOLUTIONS.

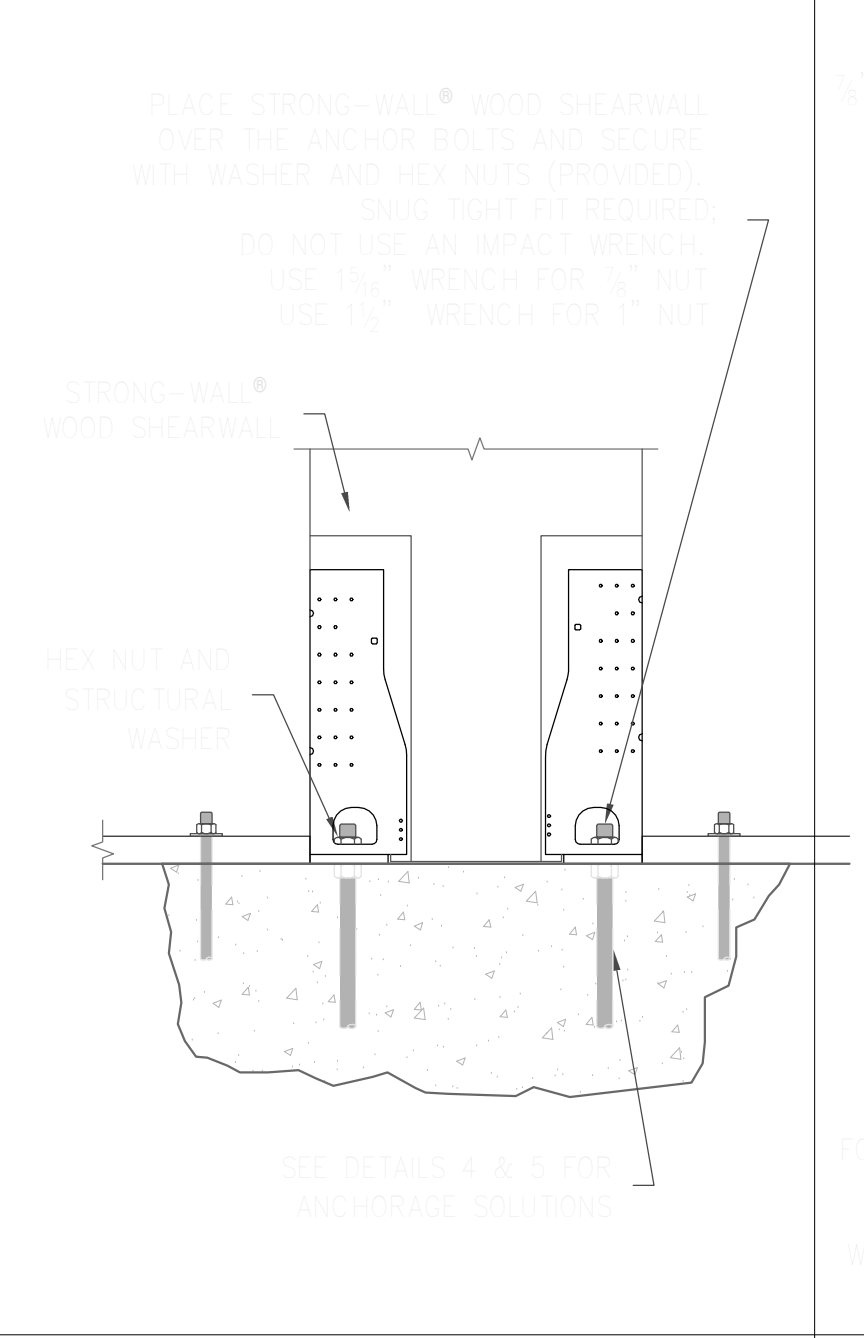
2500 PSI CONCRETE ANCHORAGE SOLUTIONS 4

WSW ANCHOR BOLTS 5

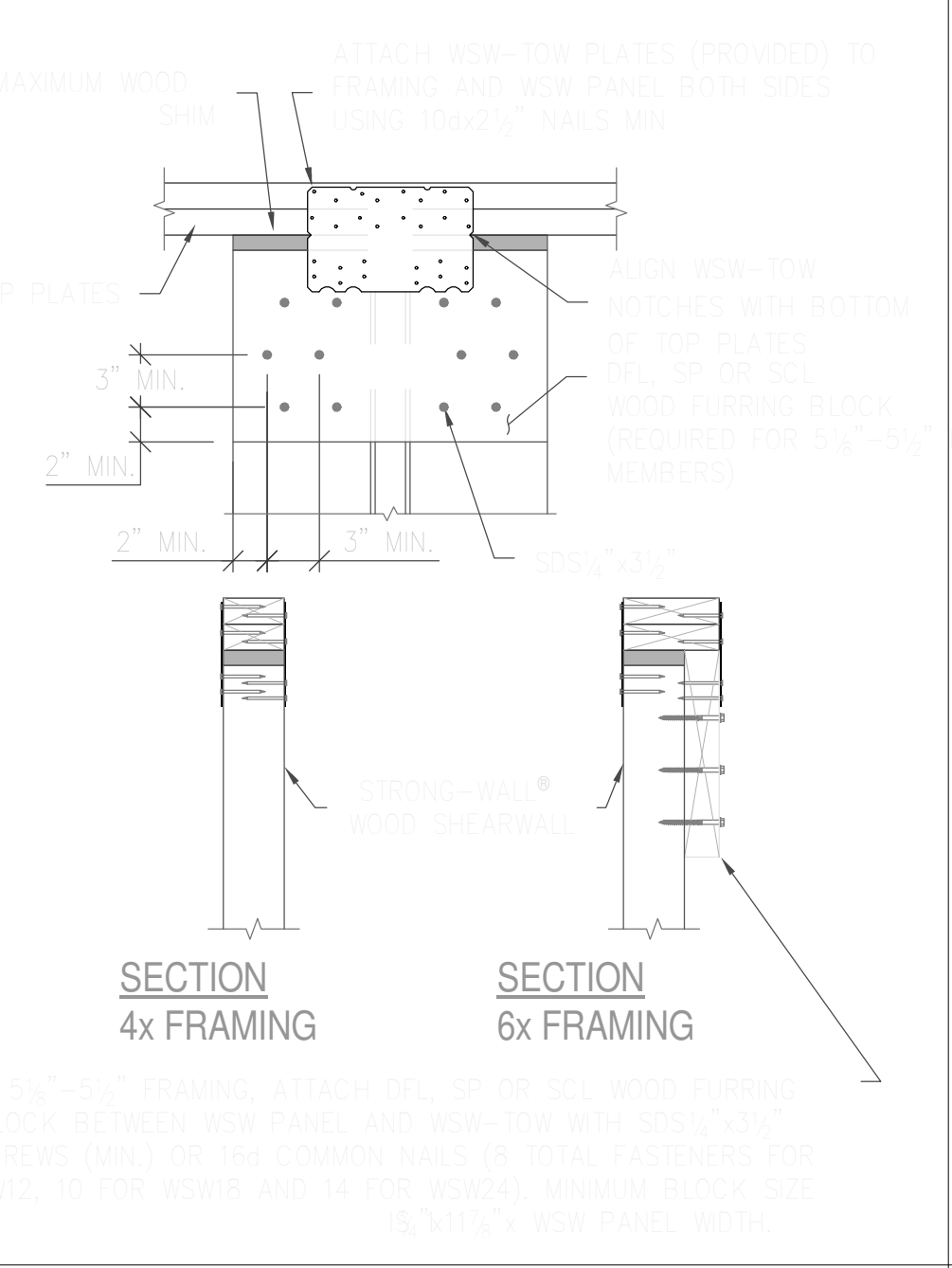
STRONG-WALL® WSW SHEAR ANCHORAGE SCHEDULE AND DETAILS 6



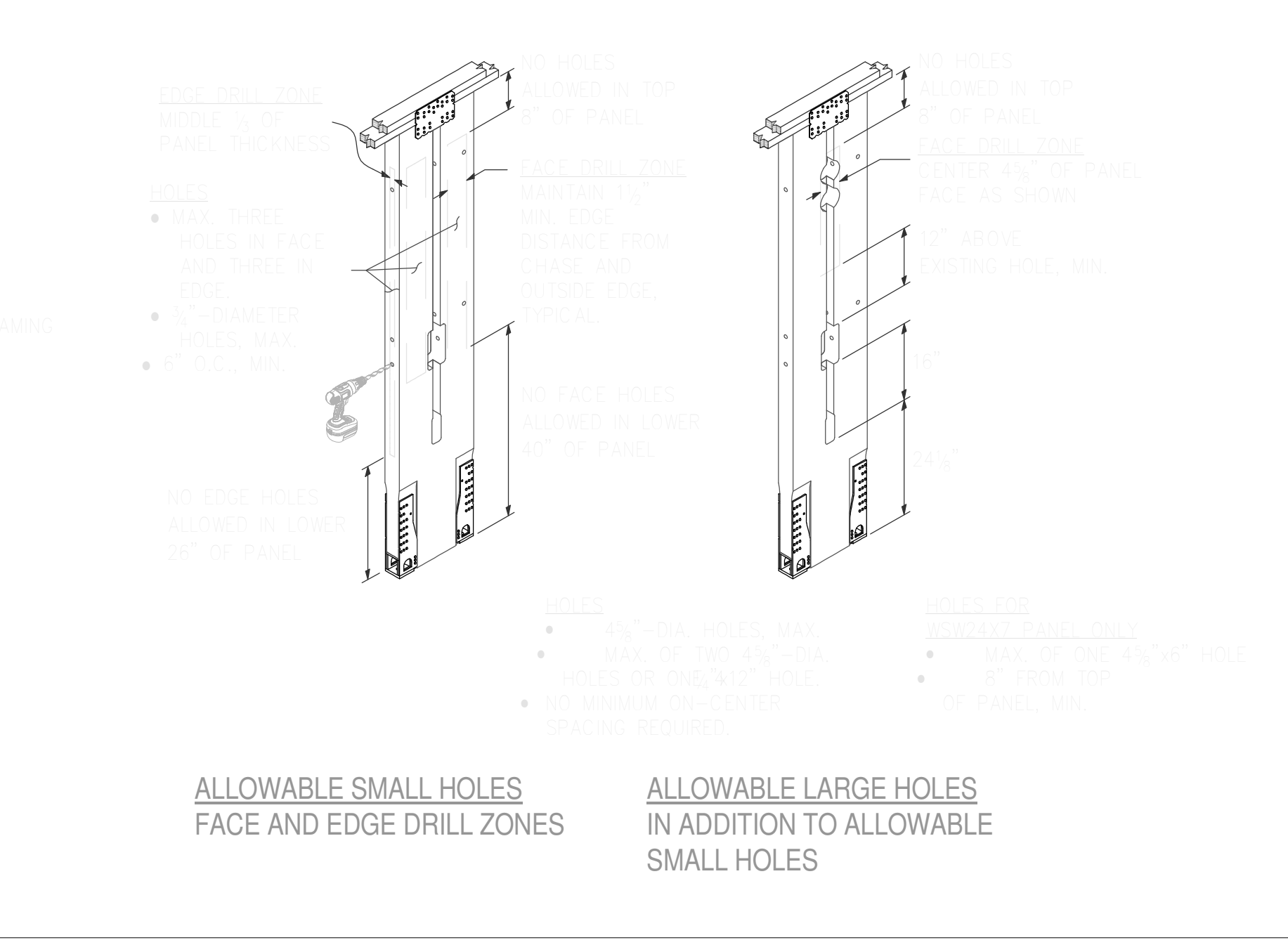
SINGLE STORY WSW ON CONCRETE 0



STANDARD INSTALLATION 1



STANDARD TOP CONNECTION 2



TRIM ZONE AND ALLOWABLE HOLES 3

TSO ADDITION

8802 SE 37TH ST
MERCER ISLAND, WA
98040

DRAWING INFO

ISSUE DATE 07-07-23
ISSUED FOR REVIEW
PROJECT NO.22126
ENGINEER BB

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

WSW DETAILS