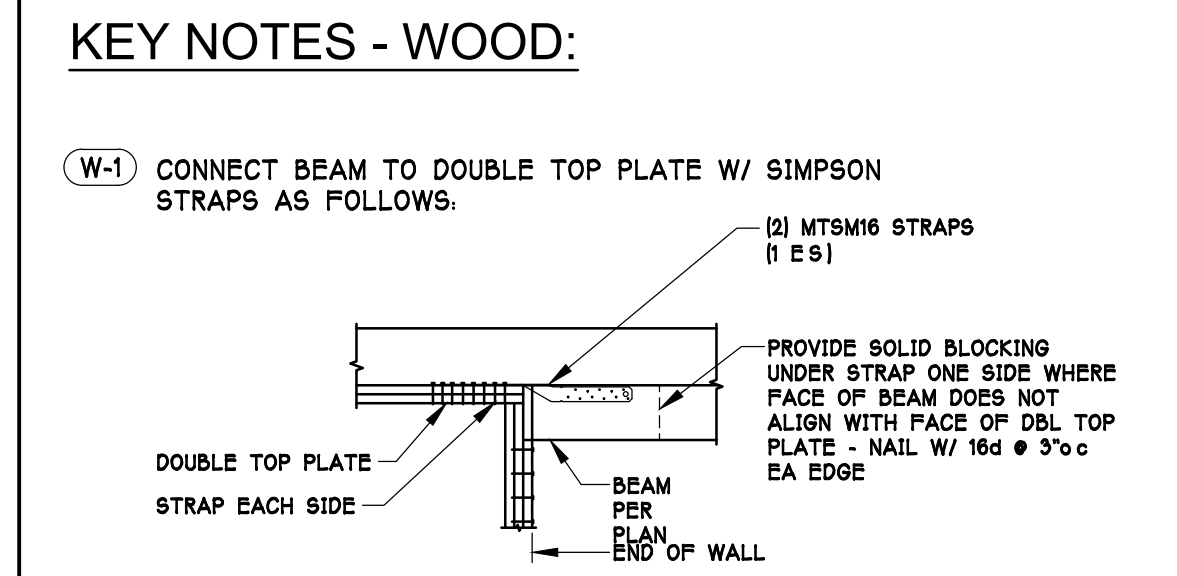
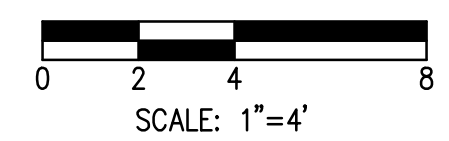


- PLAN NOTES:**
- TOP OF MAIN FLOOR PLYWOOD IS 6'-8" ABOVE REFERENCE ELEVATION 0'-0".
  - [E] INDICATES AN EXISTING MEMBER.
  - [N] INDICATES A NEW MEMBER.
  - [E-W] INDICATES AT MAIN FLOOR FRAMING PLAN - BASEMENT SHEARWALLS BELOW
    - [E-W] INDICATES AT MAIN FLOOR FRAMING PLAN - LEVEL 1 SHEARWALLS ABOVE. SHEATH AND NAIL SHEARWALLS PER SCHEDULE ON SHEET S2.1. TYPICAL SHEARWALL TYPE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON PLANS.
    - EXTERIOR WALLS: P-1
    - INTERIOR WALLS: P-1
  - [P] INDICATES POST ABOVE U.N.O. ON PLAN.
    - [P] INDICATES POST BELOW.
  - TYPICAL HEADER AT ALL INTERIOR AND EXTERIOR BEARING WALLS SHALL BE 4 X 8 DF#2 UNLESS NOTED OTHERWISE ON PLAN.
  - [X-#] INDICATES KEY NOTE. SEE KEY NOTES ON THIS SHEET.
  - [SIMP] INDICATES SIMPSON HARDWARE. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
  - SEE SHEET S2.1 FOR BALANCE OF FRAMING NOTES AND SCHEDULES. SEE SHEETS S2.1 & S2.2 FOR TYPICAL DETAILS.
  - SEE ARCHITECTURAL PLANS FOR DIMENSIONS.



City of Puyallup  
Development & Permitting Services  
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Building	Planning
Engineering	Public Works
Fire	Traffic



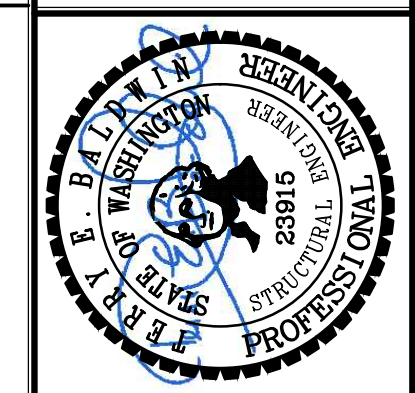
**MAIN FLOOR FRAMING PLAN**

PRRAS20221937

REVISIONS	DATE	DESCRIPTION

B & T DESIGN & ENGINEERING, INC.  
P.O. BOX 595  
16007  
(206) 857-0770 (PH/EXT)

**B&T**  
DESIGN & ENGINEERING



**LOCKWOOD REMODEL**  
3305 S. FRUITLAND AVE  
PUYALLUP, WA 98373

PROJECT TITLE

**MAIN FLOOR FRAMING PLAN**

SHEET TITLE

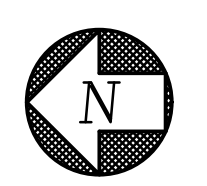
PROJECT	23002
DATE	01/23/23
DRAWN	NH
CHKD.	JT

SHEET :

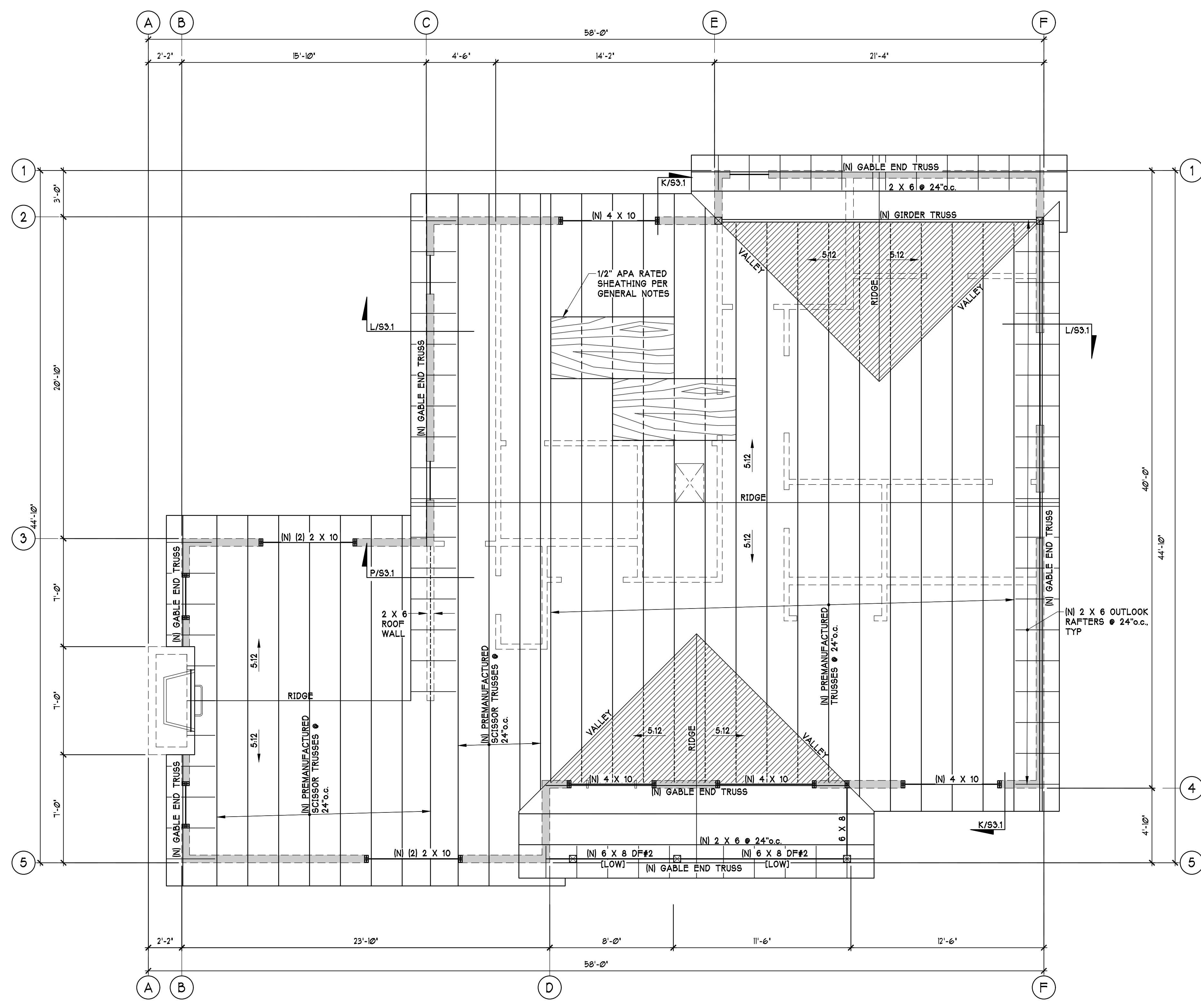
**S1.2**

OF

E3002-S1.1 01/25/23





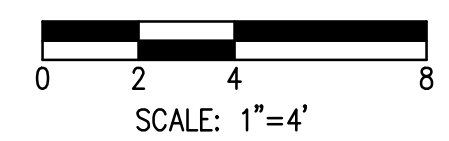


- PLAN NOTES:**
- TOP OF DOUBLE PLATE AT ROOF IS TYPICALLY +15'-0" ABOVE REFERENCE ELEVATION 0'-0".
  - (E) INDICATES AN EXISTING MEMBER.
  - (N) INDICATES A NEW MEMBER.
  - (K/S) AT ROOF FRAMING PLAN - MAIN FLOOR SHEARWALLS BELOW SHEATH AND NAIL SHEARWALLS PER SCHEDULE ON SHEET S2.1. TYPICAL SHEARWALL TYPE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON PLANS:  
EXTERIOR WALLS: P-1  
INTERIOR WALLS: P-1
  - TYPICAL HEADER AT ALL INTERIOR AND EXTERIOR BEARING WALLS SHALL BE 4 X 10 DF#2 UNLESS NOTED OTHERWISE ON PLAN.
  - (X-N) INDICATES KEY NOTE. SEE KEY NOTES ON THIS SHEET.
  - (Hatched area) INDICATES AREAS OF OVERFRAMING. USE PREMANUFACTURED VALLEY SETS OR 2 X 6 HF#2 @ 24"o.c. TYPICAL. MAXIMUM UNSUPPORTED LENGTH OF 2 X 6 RAFTER SHALL BE 8'. FOR LONGER SPANS, PROVIDE 2 X 4 BRACES TO FRAMING BELOW.
  - SEE SHEET S2.1 FOR BALANCE OF FRAMING NOTES AND SCHEDULES. SEE SHEETS S2.1 & S2.2 FOR TYPICAL DETAILS.
  - SEE ARCHITECTURAL PLANS FOR DIMENSIONS.

- PREMANUFACTURED TRUSS NOTES:**
- TRUSS DESIGN LOADS:  
TOP CHORD: DL = 10 PSF  
LL = 25 PSF (SNOW)  
BOTTOM CHORD: DL = 5 PSF
  - "G.E.T." INDICATES GABLE END TRUSS.
  - "GRDR TRUSS" INDICATES GIRDER TRUSS.

City of Puyallup  
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Building	Planning
Engineering	Public Works
Fire	Traffic

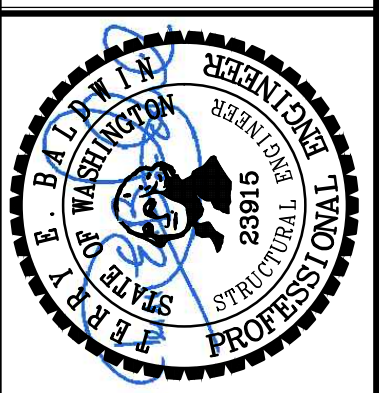


**ROOF FRAMING PLAN**

1/4" = 1'-0"

REVISIONS	DATE	DESCRIPTION

B & T DESIGN & ENGINEERING, INC.  
P.O. BOX 595  
FRUITLAND, WA 98149  
(206) 857-0770 (PHONE)



**LOCKWOOD REMODEL**  
3305 S. FRUITLAND AVE  
PUYALLUP, WA 98373

PROJECT TITLE

**ROOF FRAMING PLAN**

SHEET TITLE

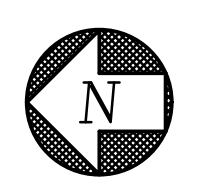
PROJECT	23002
DATE	01/23/23
DRAWN	NH
CHKD.	JT

SHEET : **S1.3**

OF

PRRAS20221937

E3002-S1.J 01/24/23





**REQUIRED SPECIAL INSPECTIONS AND TEST OF CONCRETE CONSTRUCTION (TABLE 1705.3 IBC 2018)**

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION	REFERENCED STANDARD <sup>a</sup>	IBC REFERENCED
1. INSPECTION OF REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X	ACI 318 CH. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	-	X	AWA D1.4 ACI 318 26.6.4	-
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND	X	X		
c. INSPECT ALL OTHER WELDS.	X	-		
3. INSPECT ANCHORS CAST IN CONCRETE.	-	X	ACI 318 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: <sup>b</sup>				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	X	ACI 318 17.8.2.4	-
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	-	X	ACI 318 17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX.	-	X	ACI 318 CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318 26.5.3-26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR:				
a. APPLICATION OF PRESTRESSING FORCES; AND	X	-	ACI 318 26.10	-
b. GROUTING OF BONDED PRESTRESSING TENDONS.	X	-		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	-	X	ACI 318 CH. 26.9	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 26.11.2(b)	-

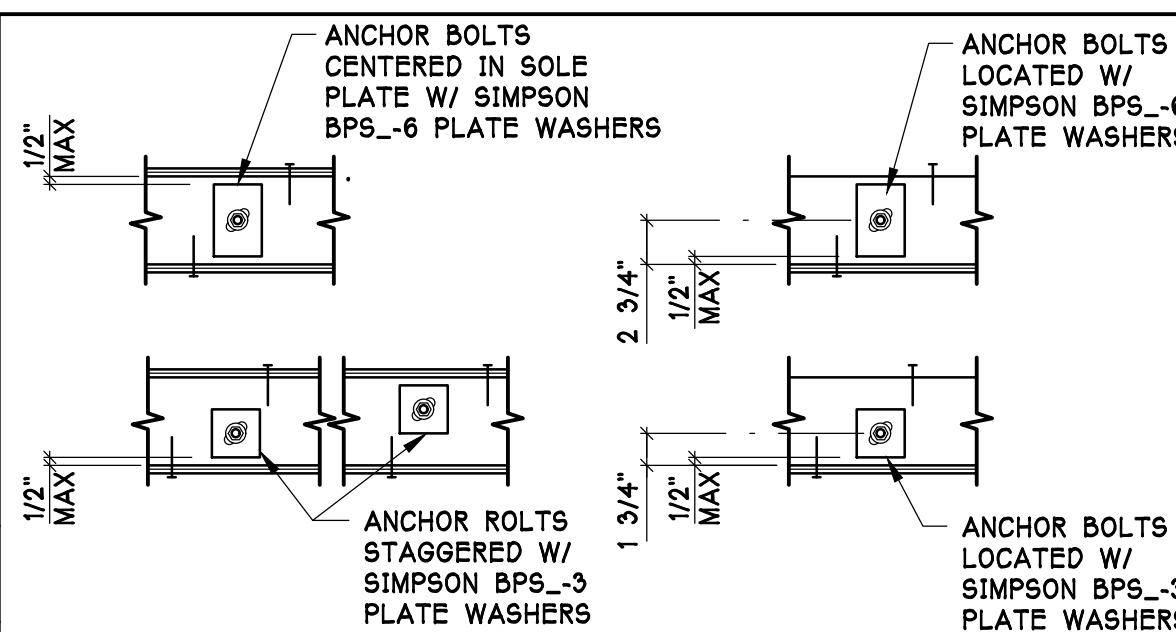
NOTES:  
a. WHERE APPLICABLE, SEE SECTION 1705.12, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.  
b. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318, OR OTHER QUALIFICATION PROCEDURES. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED, SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

**REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS (TABLE 1705.6 IBC 2018)**

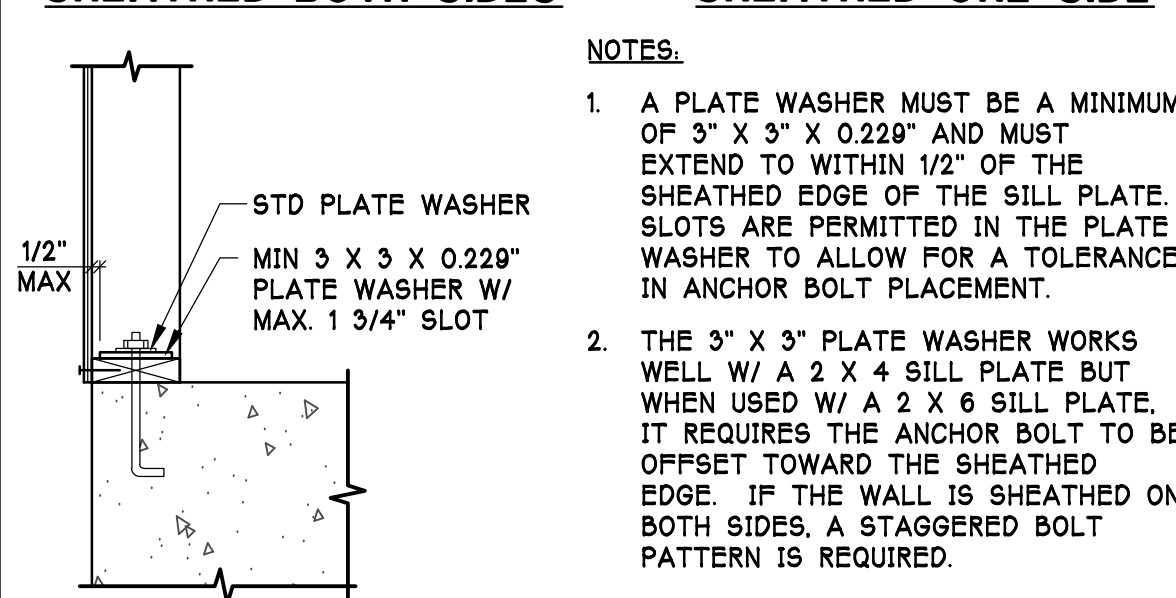
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED 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

**REQUIRED SPECIAL INSPECTIONS AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS (TABLE 1705.8 IBC 2018)**

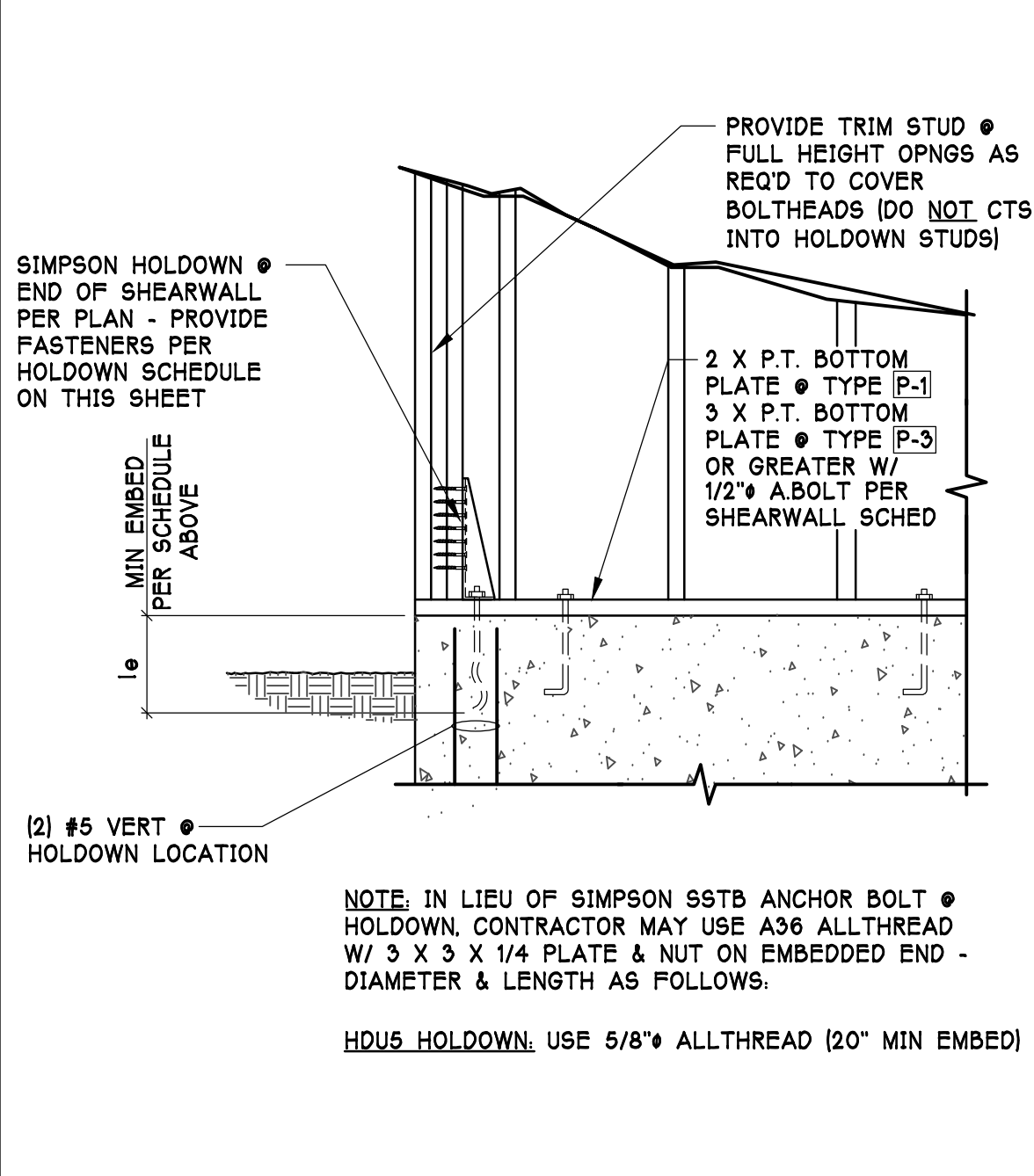
TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	-
3. FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3	-	-



**SHEAR ANCHOR OPTIONS FOR 2 X 6 WALL SHEATHED BOTH SIDES**      **SHEAR ANCHOR OPTIONS FOR 2 X 6 WALL SHEATHED ONE SIDE**



**SILL PLATE ANCHORAGE**



**HD HOLDDOWN DETAIL AT CONCRETE**

**GENERAL NOTE:**  
INTERNATIONAL BUILDING CODE -- 2018 EDITION  
ALL ASTM'S CALLED OUT ARE TO BE THE LATEST EDITION

**LIVE LOADS:**  
BUILDING RISK CATEGORY II (IBC TABLE 1604.5)

**GRAVITY LOADS:**  
SNOW: GROUND SNOW LOAD Pg = 36 psf  
FLAT ROOF SNOW LOAD Pf = 25 psf  
SNOW EXPOSURE FACTOR Ce = 1.0  
SNOW IMPORTANCE FACTOR Is = 1.0  
THERMAL FACTOR Ct = 1.0

**FLOOR DECK:**  
60 PSF

**LATERAL LOADS:**  
WIND: Vult = 110 MPH Vasd = 85 MPH  
EXPOSURE "B" Kzt = 1.00  
SEISMIC: SITE CLASS "C"  
SEISMIC DESIGN CATEGORY "D"  
IMPORTANCE FACTOR Ia = 1.0  
Ss = 1.271g Si = 0.439g  
Fv = 1.2 Fv = NULL  
Ses = 1.017g Sm = NULL  
R = 6.5 (PLYWOOD SHEARWALLS)

**FOUNDATION:**  
FOUNDATION DESIGN WAS BASED ON THE FOLLOWING ASSUMED ALLOWABLE VALUES:  
FOOTING BEARING PRESSURE: 1500 PSF ON DENSE NATIVE MATERIAL OR COMPACTED STRUCTURAL FILL (33% INCREASE FOR WIND OR SEISMIC)  
LATERAL EARTH PRESSURE: 35 PCF EQUIVALENT FLUID PRESSURE (ACTIVE)  
250 PCF EQUIVALENT FLUID PRESSURE (PASSIVE)  
COEFFICIENT OF FRICTION: 0.35

ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 1'-6" BELOW FINISH GRADE. SLABS AND FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR STRUCTURAL FILL COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D-1557. CONTRACTOR SHALL PROVIDE POSITIVE PERMANENT DRAINAGE OF BUILDING PERIMETER.

**CONCRETE:**  
fc = 3000 psi FOR RETAINING WALLS, FOOTINGS & SLABS ON GRADE  
ULTIMATE STRENGTH DESIGN METHOD USED. MIXING AND PLACING OF ALL CONCRETE AND SELECTION OF MATERIALS SHALL BE IN ACCORDANCE WITH THE IBC AND ACI CODE 318.  
PROPORTIONING OF AGGREGATE TO CEMENT SHALL BE SUCH AS TO PRODUCE A DENSE WORKABLE MIX WITH 5" MAXIMUM SLUMP WHICH CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. FOR ADMIXTURES, SEE SPECIFICATIONS. 1/2" CHAMFER ALL EXPOSED EDGES, UNLESS INDICATED OTHERWISE ON ARCHITECTURAL DRAWINGS. WATER CURING SHALL BE USED. AIR ENTRAIN ALL CONCRETE EXPOSED TO WEATHER WITH 3% TO 6% AIR BY VOLUME.

**REINFORCING STEEL:**  
ALL CONCRETE REINFORCING STEEL SHALL BE DEFORMED PER ASTM A615, GRADE 60 (fy=60,000 psi) EXCEPT ALL #4 SLAB DOWELS SHALL BE GRADE 40 (fy=40,000 psi). LAP CONTINUOUS REINFORCING BARS 30 BAR DIAMETERS, 1'-7" MINIMUM UNLESS NOTED OTHERWISE. CORNER BARS (1'-7" BEND) WILL BE PROVIDED FOR ALL HORIZONTAL REINF. DETAIL STEEL IN ACCORDANCE WITH "ACI MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCED CONCRETE STRUCTURES". WELDED WIRE FABRIC (WFW) TO CONFORM WITH ASTM A185. REINFORCING HOOKS TO COMPLY WITH STANDARD AIC HOOKS.

UNLESS NOTED OTHERWISE, COVER TO MAIN REINFORCEMENT TO BE:  
CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH: 3 INCHES  
CONCRETE EXPOSED TO EARTH OR WEATHER: 1 1/2 INCHES (#5 BARS & SMALLER)  
CONCRETE NOT EXPOSED TO WEATHER: 2 INCHES (#8 THRU #18 BARS)  
OR IN CONTACT WITH GROUND: 3/4 INCHES (#11 BAR & SMALLER)  
1 1/2 INCHES (#14 & #18 BARS)

**MISCELLANEOUS STEEL PLATES:**  
MISCELLANEOUS STEEL PLATES SHALL CONFORM TO ASTM A36 (fy=36,000 PSI). WELDS NOT SPECIFIED SHALL BE 1/4" CONTINUOUS FILLET MINIMUM. ALL WELDS TO BE BY WAGO CERTIFIED WELDERS -- USE FRESH E70 ELECTRODES. MISCELLANEOUS HANGERS TO BE SIMPSON OR I.C.C. APPROVED EQUAL. NAIL ALL HOLES WITH NAILS AS SPECIFIED BY MANUFACTURER UNLESS NOTED OTHERWISE ON DRAWINGS. MACHINE HOLES TO BE A-307.

**EPOXY DOWELS:**  
EPOXY SHALL BE HILTI "HIT-RE 500 VS" FROM HILTI US. ANCHORING ADHESIVE SHALL BE A TWO-COMPONENT HIGH-SOLIDS EPOXY-BASED SYSTEM SUPPLIED IN MANUFACTURER'S STANDARD CARTRIDGE AND DISPENSED THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. THE ADHESIVE ANCHOR SHALL HAVE BEEN TESTED AND QUALIFIED FOR PERFORMANCE IN CRACKED AND UNCRACKED CONCRETE PER ESR-3814.  
DOWELS SHALL BE DEFORMED BAR PER "REINFORCING STEEL" NOTE ABOVE. PROVIDE SIZE AND EMBEDMENT AS SPECIFIED ON PLANS AND DETAILS. DOWELS SHALL BE INSTALLED PER HILTI'S INSTRUCTIONS FOR HIT-RE 500 VS ADHESIVE. VERIFY MANUFACTURER'S DATE OF EXPIRATION ON EPOXY PRIOR TO USE.

**EPOXY ANCHORS:**  
EPOXY SHALL BE HILTI "HIT-RE 500-SD" FROM HILTI US. ANCHORING ADHESIVE SHALL BE A TWO-COMPONENT HIGH-SOLIDS EPOXY-BASED SYSTEM SUPPLIED IN MANUFACTURER'S STANDARD CARTRIDGE AND DISPENSED THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. THE ADHESIVE ANCHOR SHALL HAVE BEEN TESTED AND QUALIFIED FOR PERFORMANCE IN CRACKED AND UNCRACKED CONCRETE PER ICC-ES-ESR-2322. ANCHORS SHALL BE THREADED RODS CONFORMING TO ASTM A36. PROVIDE DIAMETER AND EMBEDMENT AS SPECIFIED ON PLANS AND DETAILS. ANCHORS SHALL BE INSTALLED PER HILTI'S INSTRUCTIONS FOR HIT-RE 500-SD EPOXY-TIE ADHESIVE. VERIFY MANUFACTURER'S DATE OF EXPIRATION ON EPOXY PRIOR TO USE.

**WEDGE-BOLT ANCHORS:**  
WEDGE-BOLT ANCHORS SHALL BE TRUBOLT WEDGE ANCHORS OR APPROVED EQUAL AND SHALL BE IMPERIAL-SIZED STEEL THREADED STUD WITH AN INTEGRAL CONE EXPANDER AND A THREE-SEGMENT EXPANSION CLIP. THE STUD SHALL BE MANUFACTURED FROM CARBON STEEL AND THE EXPANSION CLIP SHALL HAVE TWO UNDERCUTTING EMBOSSEMENTS PER SEGMENT AND BE MANUFACTURED FROM 316 STAINLESS STEEL. THE ANCHOR SHALL HAVE BEEN TESTED AND QUALIFIED FOR PERFORMANCE IN CRACKED CONCRETE PER ACI 355.2 AND ICC-ES AC 193. ANCHORS SHALL BE TRUBOLT RED HEAD TYPE ANCHORS OR APPROVED EQUAL AND SHALL BE INSTALLED FOLLOWING MANUFACTURER'S INSTRUCTIONS. DRILLED HOLES SHALL BE SIZED FOR DIAMETER AND DEPTH PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE SPECIAL INSPECTED FOR HOLE SIZE AND DEPTH PRIOR TO ANCHOR INSTALLATION. IF ANCHORS ARE INSTALLED WITHOUT INSPECTION, EACH ANCHOR SHALL BE TORQUE TESTED TO MANUFACTURER'S FOOT/POUND SPECIFICATIONS BASED ON DIAMETER OF ANCHOR. TORQUE TESTING OF ANCHORS WILL BE REQUIRED TO BE DONE BY A SPECIAL INSPECTION AGENCY APPROVED BY THE ENGINEER OF RECORD AND THE BUILDING DEPARTMENT PRIOR TO TESTING.

City of Puyallup  
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Building Planning  
Engineering Public Works  
Fire Traffic

**TIMBER:**  
2X MEMBERS: H.F.#2 (Fb=1270 psi REP.) (2 X 6 OR LESS)  
4X MEMBERS: H.F.#2 (Fb=1035 psi REP.) (2 X 8 OR LARGER)  
D.F.#2 (Fb=1080 psi) (4 X 10 OR LESS)  
D.F.#2 (Fb=990 psi) (4 X 12 OR LARGER)  
6X MEMBERS: D.F.#2 (Fb=1350 psi)  
LUMBER NOT NOTED TO BE: D.F.#2  
BOLTS IN WOOD CONFORM WITH ASTM A307

ALL GRADES SHALL CONFORM TO "WMPA GRADING RULES FOR WESTERN LUMBER -- LATEST EDITION". BOLT HEADS AND NUTS BEARING AGAINST WOOD SHALL BE PROVIDED WITH STANDARD CUT WASHERS. PLATE WASHERS A MINIMUM OF 3" X 3" X 1/4" SHALL BE USED AT ALL SILL PLATE ANCHOR BOLTS. ALL NEW FRAMING LUMBER SHALL HAVE 19% MAXIMUM MOISTURE CONTENT AT TIME OF INSTALLATION. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. ALL NAILS ARE "COMMON" UNLESS INDICATED OTHERWISE. MINIMUM NAILING PER IBC TABLE 2304.10.1. S4S TYPICAL UNLESS NOTED OTHERWISE. SUBSTITUTION OF OTHERS SPECIES WITHOUT WRITTEN APPROVAL OF THE ENGINEER IS PROHIBITED. MISCELLANEOUS HANGERS TO BE SIMPSON OR I.C.C. APPROVED EQUAL. ALL CONNECTORS FOR PRESSURE TREATED LUMBER AND ALL NAILS IN EXTERIOR SHEATHING SHALL BE HOT-DIPPED GALVANIZED. NAIL ALL HOLES WITH NAILS AS SPECIFIED BY MANUFACTURER UNLESS NOTED OTHERWISE ON DRAWINGS.

**NAILS:**  
NAILS SHALL BE COMMON, AMERICAN OR CANADIAN MANUFACTURED ONLY WITH MINIMUM DIAMETERS AS FOLLOWS:

NAIL DESIGNATION	MINIMUM NAIL SHANK DIAMETER (IN)	MINIMUM NAIL LENGTH
8d	0.131"	2 1/2"
10d	0.148"	3"
16d SINKER OR 12d	0.148"	3 1/4"
16d	0.162"	3 1/2"
20d	0.192"	4"

**SIMPSON STRONG-TIE HARDWARE:**  
ALL FRAMING HARDWARE SHALL BE SIMPSON STRONG-TIE OR ENGINEER APPROVED EQUAL. CONTRACTOR SHALL INSTALL ALL FRAMING HARDWARE WITH SIZE, TYPE AND NUMBER OF FASTENERS SPECIFIED BY THE MANUFACTURER.

**GLU-LAMINATED WOOD MEMBERS:**  
GLU-LAMINATED WOOD BEAMS, DOUGLAS FIR COAST REGION, KILN DRIED, AITC COMBINATION 24F-V4 (DF/DF) (Fb=2400 PSI) FOR SIMPLE SPAN MEMBERS AND COMBINATION 24F-V8 (DF/DF) (Fb=2400 PSI) FOR CANTILEVERED MEMBERS. BOTTOM LAM TO BE FREE OF UNSOUND KNOTS LARGER THAN 1/2" DIAMETER. PROVIDE AITC STAMP ON EACH MEMBER AND PROVIDE AITC CERTIFICATE TO ARCHITECT. MATERIALS MUST BE OBTAINED FROM AN APPROVED FABRICATOR. ALL GLU-LAM BEAMS SHALL FIT SNUG AND TIGHT IN THEIR CONNECTIONS AND DEVELOP FULL BEARING AS INDICATED ON DRAWINGS. ALL BEAMS SHALL BE CAMBERED WITH 2000 FOOT RADIUS UNLESS NOTED OTHERWISE ON DRAWINGS.

**PLYWOOD WEB JOISTS:**  
PLYWOOD WEB JOISTS SHALL BE RED-1 OR ENGINEER APPROVED EQUAL WHICH DEMONSTRATES ICC AND NIB ACCEPTANCE. SUBMIT ICC AND NIB REPORTS TO ENGINEER OF RECORD FOR REVIEW PRIOR TO INSTALLATION. JOISTS SHALL HAVE LOAD CARRYING CAPACITIES IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED LOAD TABLES. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

**METAL GUSSET/WOOD TRUSSES:**  
TRUSSES SHALL BE FABRICATED IN ACCORDANCE WITH IBC CHAPTER 2303.4 AND INSPECTED IN ACCORDANCE WITH IBC CHAPTER 1704.2. IN ADDITION, THE MANUFACTURER SHALL MAINTAIN A RECORD BY A SEPARATE IN-HOUSE STAFF WHICH CHECKS AMONG OTHER THINGS, LUMBER GRADES, PLATE SIZE, PLATE LOCATION AND FABRICATION QUALITY FOR ALL TRUSSES. RECORDS SHALL BE SUBMITTED TO ARCHITECT UPON REQUEST. CERTIFIED, FULL SCALE LOAD TEST RESULTS RUN ON SIMILAR TRUSSES AND IN ACCORDANCE WITH IBC CHAPTER 1704.2 SHALL BE SUBMITTED TO THE ARCHITECT UPON REQUEST.  
PLATE MANUFACTURER MUST BE A MEMBER OF THE TRUSS PLATE INSTITUTE (TPI) AND HAVE A CURRENT ICC REPORT FOR ITS METAL GUSSET PLATES.  
ALL LUMBER TO BE KILN DRIED (TO A MAX. OF 19% MC) HEM FIR OR DOUG FIR. TOP CHORDS MUST BE DF. SHOP DRAWINGS TO INCLUDE TRUSS CALCULATIONS, LAYOUT AND PLACEMENT PLANS, INDICATE ALL BRIDGING AND BLOCKING, AND SHOW ALL BEARING CONDITIONS INCLUDING ADDITIONAL BEARING CLIPS TO INSURE ADEQUATE BEARING AREA. SHOP DRAWINGS TO BE PREPARED UNDER THE DIRECT SUPERVISION AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WASHINGTON, AND EMPLOYED BY TRUSS MANUFACTURER. ONE STRUCTURAL ENGINEER MUST STAMP ALL SHEETS INCLUDING ERECTION DRAWINGS AND CALCULATIONS.

**ROOF, FLOOR & SHEARWALL SHEATHING:**  
ROOF SHEATHING SHALL BE 1/2" (NOMINAL) APA RATED SHEATHING 24/0, EXPOSURE 1, SIZED FOR SPACING. INSTALL PANELS WITH 1/8" SPACING AT END JOINTS AND 1/4" SPACING AT EDGE JOINTS. NAILING SHALL BE 10d (COMMON) AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS U.N.O. ON PLANS.  
FLOOR SHEATHING SHALL BE 3/4" (NOMINAL) APA RATED TAG STURD-I-FLOOR 48/24, EXPOSURE 1 AT INTERIOR APPLICATIONS, EXTERIOR AT DECKS, SIZED FOR SPACING. INSTALL WITH 1/8" SPACING BETWEEN EDGE AND END JOINTS. GLUE AND NAIL ALL SUPPORTS AND BLOCKING. NAILING SHALL BE 10d (COMMON) AT 6" O.C. AT PANEL EDGES AND 10" O.C. AT INTERMEDIATE SUPPORTS U.N.O. ON PLANS.  
SHEARWALL SHEATHING SHALL BE 1/2" (NOMINAL) APA RATED SHEATHING WALL-16, EXPOSURE 1, SIZED FOR SPACING. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER. BLOCK ALL PANEL EDGES AND NAIL PER SHEARWALL SCHEDULE ON THIS SHEET.

**SHOP DRAWINGS:**  
SUBMIT THREE SETS OF SHOP DRAWINGS TO THE ENGINEER AND ONE SET TO THE BUILDING DEPARTMENT FOR APPROVAL PRIOR TO FABRICATION FOR:  
REINFORCING STEEL, MISC. STEEL, METAL GUSSET WOOD TRUSSES & GLULAMINATED WOOD MEMBERS.

**SPECIAL INSPECTIONS:**  
INSPECTIONS ARE TO BE PER IBC CHAPTER 17, SECTIONS 1704 AND 1705 AND ARE TO BE BY AN INDEPENDENT TESTING LAB AND APPROVED BY THE OWNER AND BUILDING DEPARTMENT AND ENGAGED BY AND PAID FOR BY THE OWNER PRIOR TO STARTING CONSTRUCTION.  
FOUNDATION: INSPECT FOOTINGS AND EXCAVATIONS JUST PRIOR TO CONCRETE PLACEMENT TO INSURE MATERIAL IS DRY AND DENSE.  
CONCRETE: TAKE CONCRETE CYLINDERS PER IBC SECTION 1705.3. VERIFY MIX DESIGN AND SLUMPS.  
REINFORCING: VERIFY ALL REINFORCING IS PLACED IN ACCORDANCE WITH APPROVED PLANS. CHECK FOR REQUIRED COVER, SIZE AND GRADE.  
FLOOR & ROOF DIAPHRAGM: NOTIFY BUILDING DEPARTMENT AND ENGINEER OF RECORD FOR INSPECTION 48 HOURS PRIOR TO COVERING.  
EPOXY ANCHOR: SPECIAL INSPECTION IS REQUIRED.  
WEDGE ANCHOR: SPECIAL INSPECTION IS REQUIRED.

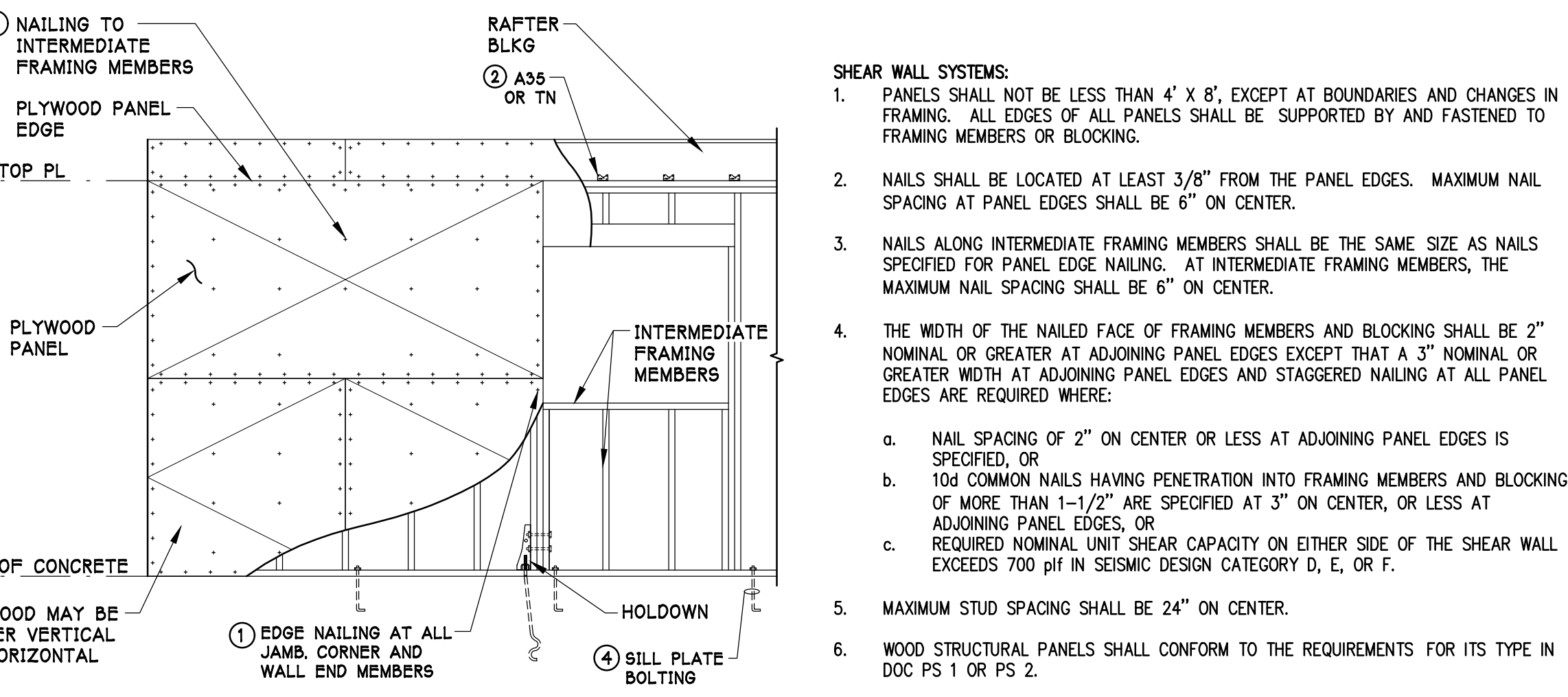
**SPECIAL CONDITIONS:**  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AND SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL FIELD CHANGES PRIOR TO INSTALLATION.

**INSPECTION TABLES**

**SHEARWALL SCHEDULE**

TYPE	CAPACITY EQ / WIND [PLF]	SHEATHING	BLKG REQ'D	① NAILING #10	② RIM JOIST/BLOCKING TO DBL TOP PL	③ WOOD	④ CONNECTION AT SILL
P-1	260 / 335	1/2" PLYWOOD ONE SIDE	YES #3	8d @ 6" O.C. EDGE, 12" O.C. FIELD	SIMPSON A35 @ 16" O.C.	16d @ 6" O.C.	1/2" ANCHOR BOLTS #2 @ 1'-0" O.C.
P-2	380 / 530	1/2" PLYWOOD ONE SIDE	YES #3	8d @ 4" O.C. EDGE, 12" O.C. FIELD	SIMPSON A35 STAGGER 3"	[2] ROWS 16d @ 6" O.C., #4	1/2" ANCHOR BOLTS #2 @ 1'-0" O.C.
P-3	1280 / 1790	1/2" PLYWOOD BOTH SIDES	YES #3	8d @ 2" O.C. EDGE, #10 12" O.C. FIELD	SIMPSON L90 @ 8" O.C.	[2] ROWS 1/4" X 0'-4" LAG #4 SCREWS @ 6" O.C. STAGGER 3"	1/2" ANCHOR BOLTS #2 @ 0'-6" O.C.

**TYPICAL STRUCTURAL NOTES:**  
1. WOOD STRUCTURAL PANEL SHEAR WALLS:  
a. 8d NAILS SHALL BE COMMON (2 1/2" X 0.113" DIAMETER) WITH 1 3/8" MINIMUM PENETRATION INTO FRAMING. NO. 14 GAGE STAPLES WITH A MINIMUM 7/16" OD CROWN AND 1 1/2" LENGTH MAY BE USED ONE FOR ONE IN LIEU OF 8d NAILS. FASTENERS EXPOSED TO WEATHER SHALL BE ZINC COATED BY HOT DIP GALVANIZING, MECHANICALLY DEPOSITED, OR ELECTRO DEPOSITED.  
b. WHERE PLYWOOD IS APPLIED BOTH SIDES OF SHEAR WALL, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING MEMBERS SHALL BE 3" WIDE (NOMINAL) AND NAILS ON EACH SIDE SHALL BE STAGGERED.  
c. FRAMING AT ADJOINING PANEL EDGES AND BOTTOM PLATES OF SHEAR WALLS SHALL BE 3-INCH NOMINAL OR WIDER AND NAILS SHALL BE STAGGERED WHERE THE REQUIRED SHEAR CAPACITY EXCEEDS 700 pF.  
d. ALLOWABLE SHEAR VALUES IN TABLE ABOVE ARE FOR HEM-FIR FRAMING MEMBERS (GROUP III). NO SUBSTITUTION OF LESSER GROUPS WILL BE ALLOWED.  
2. PLATE WASHERS A MINIMUM OF 3 INCH X 3 INCH X 0.229 INCH THICK SHALL BE USED ON EACH ANCHOR BOLT. SEE DETAIL A/S2.1.  
3. ALL BLOCKING SHALL BE 2X HEM-FIR STUD GRADE OR BETTER. (USE 3 X HF BLOCKING WHERE REQUIRED BY NOTE #1b & 1c.)  
4. PROVIDE DOUBLE BLOCKING OR RIM JOIST UNDER WOOD SILL WHERE (2) ROWS OF FASTENERS ARE REQUIRED. PROVIDE TRIPLE BLOCKING OR RIM JOIST UNDER WOOD SILL WHERE (3) ROWS OF FASTENERS ARE REQUIRED. (CLOSEST ALLOWABLE SPACING FOR 16d NAILS IN 1 1/4" "TIMBERSTRAND" LSL RIM IS 6" O.C.)  
5. "Ⓢ" INDICATES CONNECTION TYPE AS DESCRIBED IN SCHEDULE ABOVE -- LOCATE PER DIAGRAM AT RIGHT.



**SHEARWALL SCHEDULE**

REVISIONS  
DATE DESCRIPTION

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2501 SUNSET WAY  
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(253) 857-0770 (PHONE)  
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**B&T DESIGN & ENGINEERING**

**LOCKWOOD REMODEL**  
3305 S. FRUITLAND AVE  
PUYALLUP, WA 98373

PROJECT TITLE

**STANDARD SCHEDULES, NOTES & DETAILS**

SHEET TITLE

PROJECT: 23002  
DATE: 01/23/23  
DRAWN: NH  
CHKD: JT

SHEET :

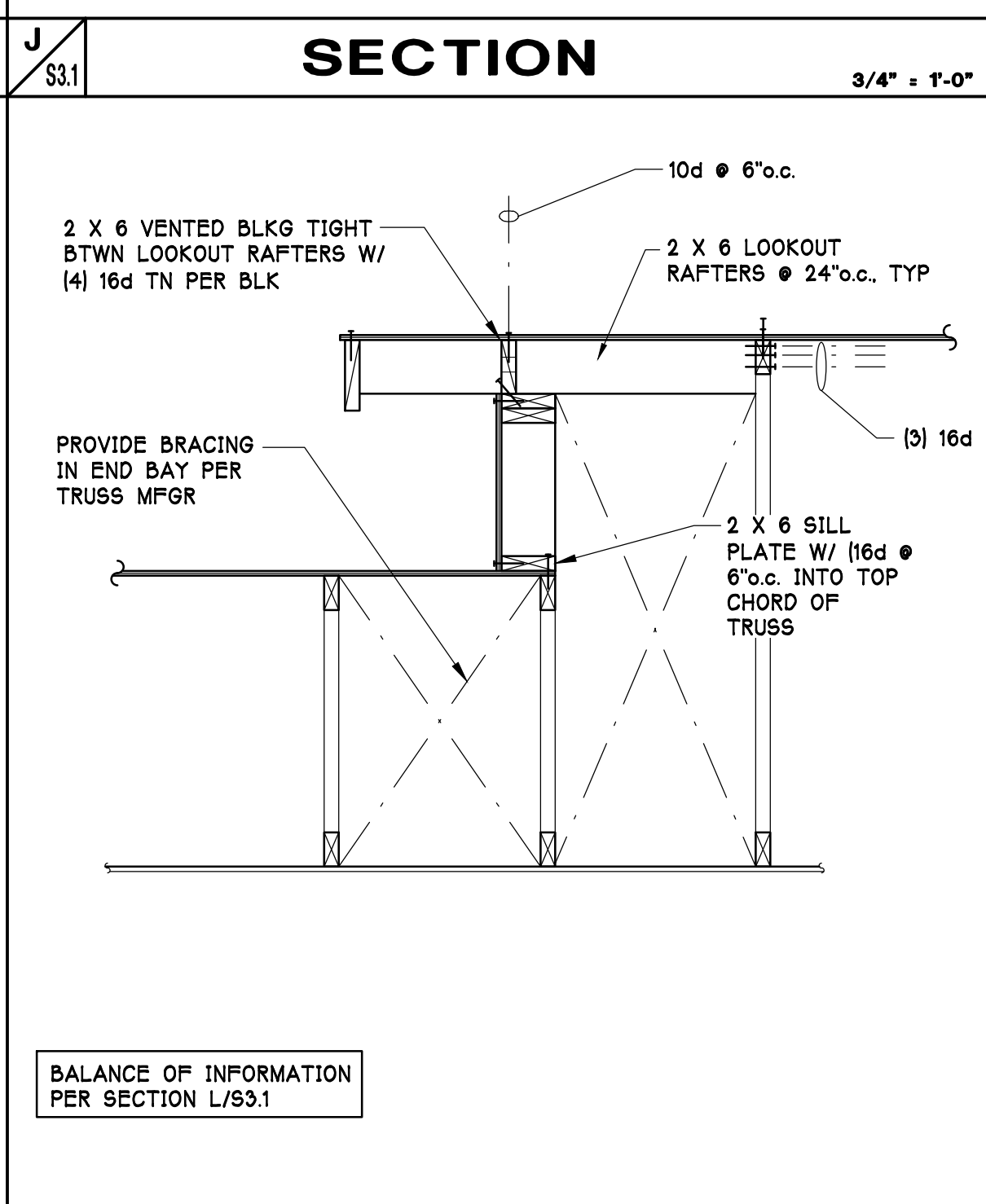
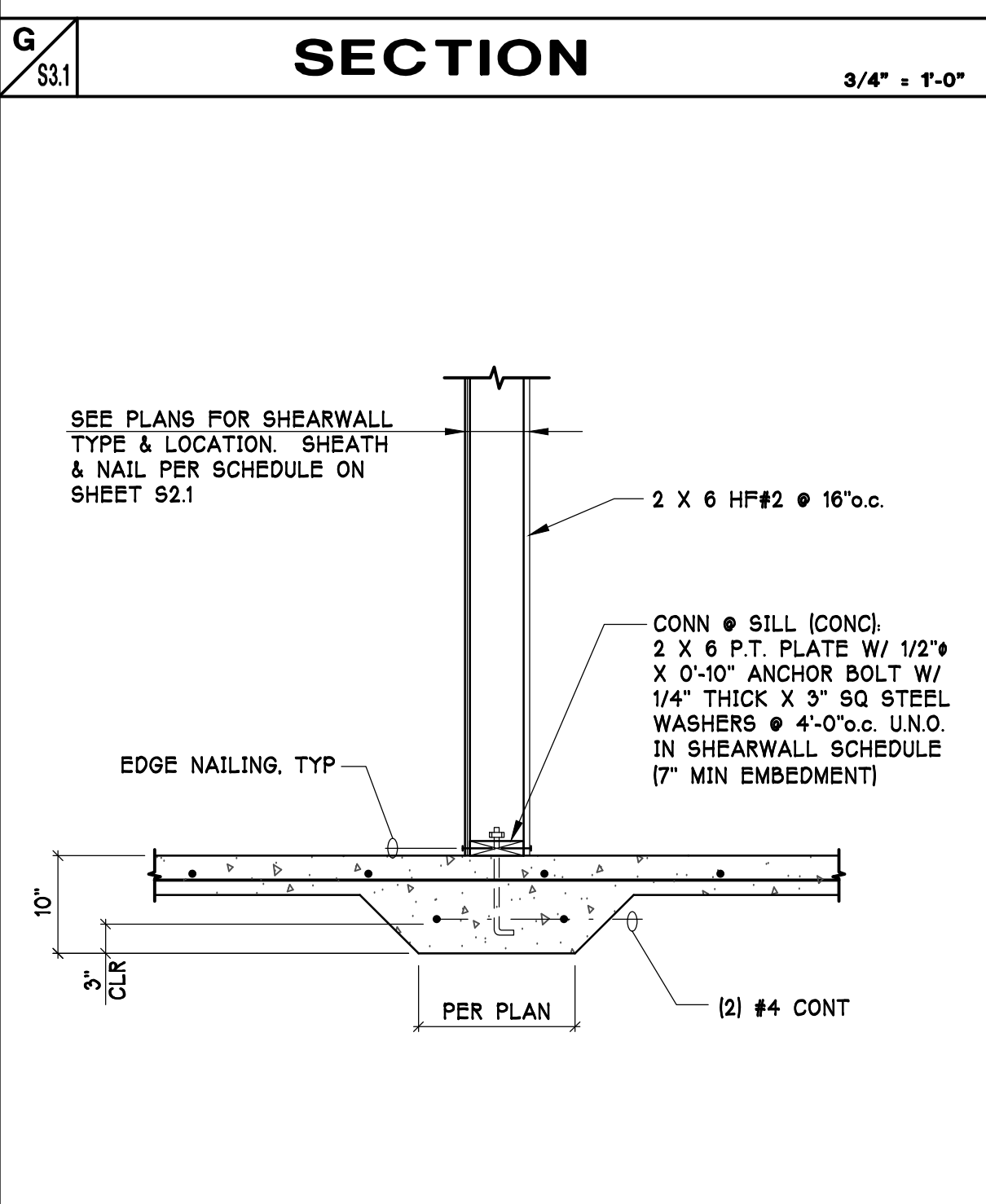
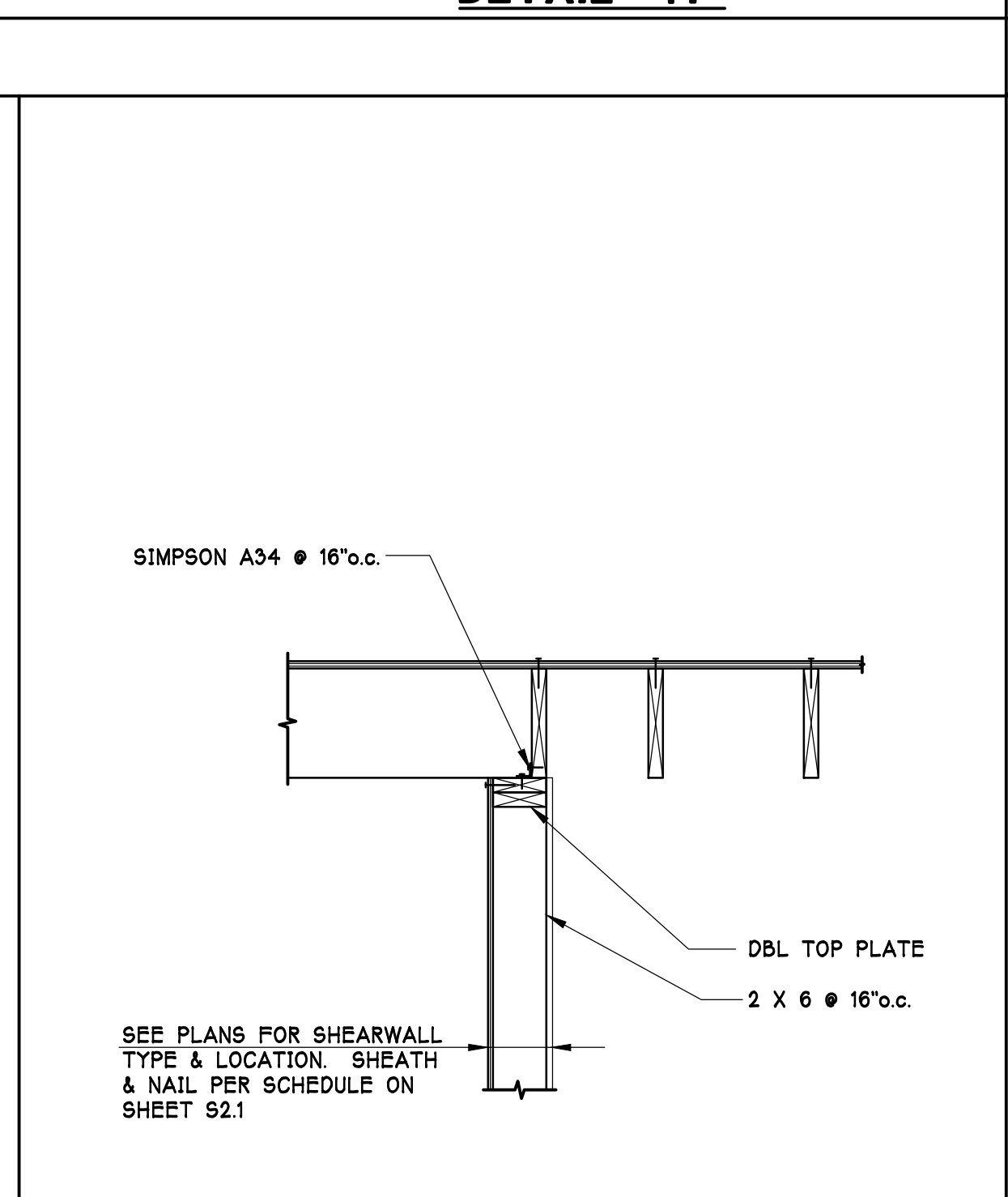
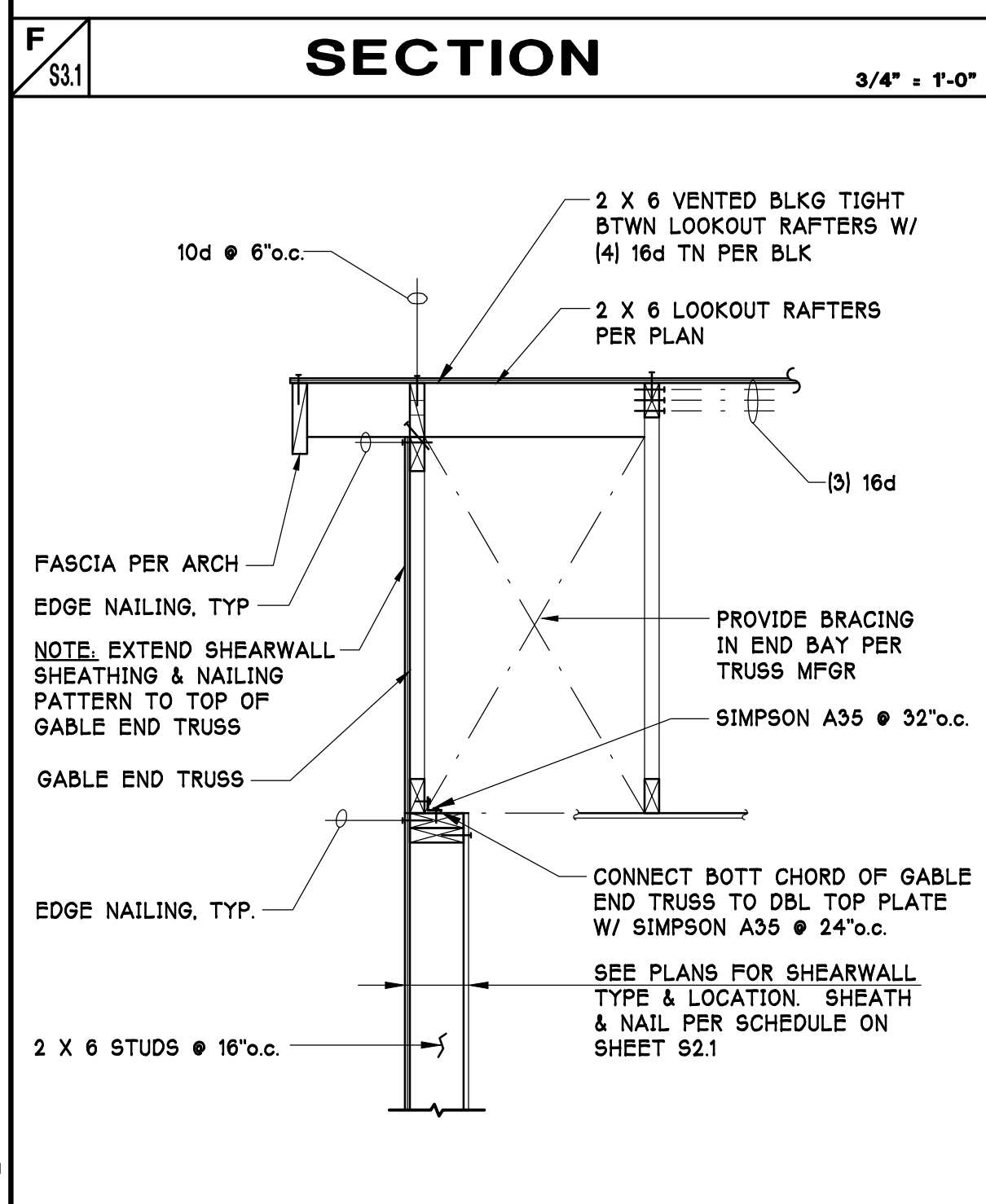
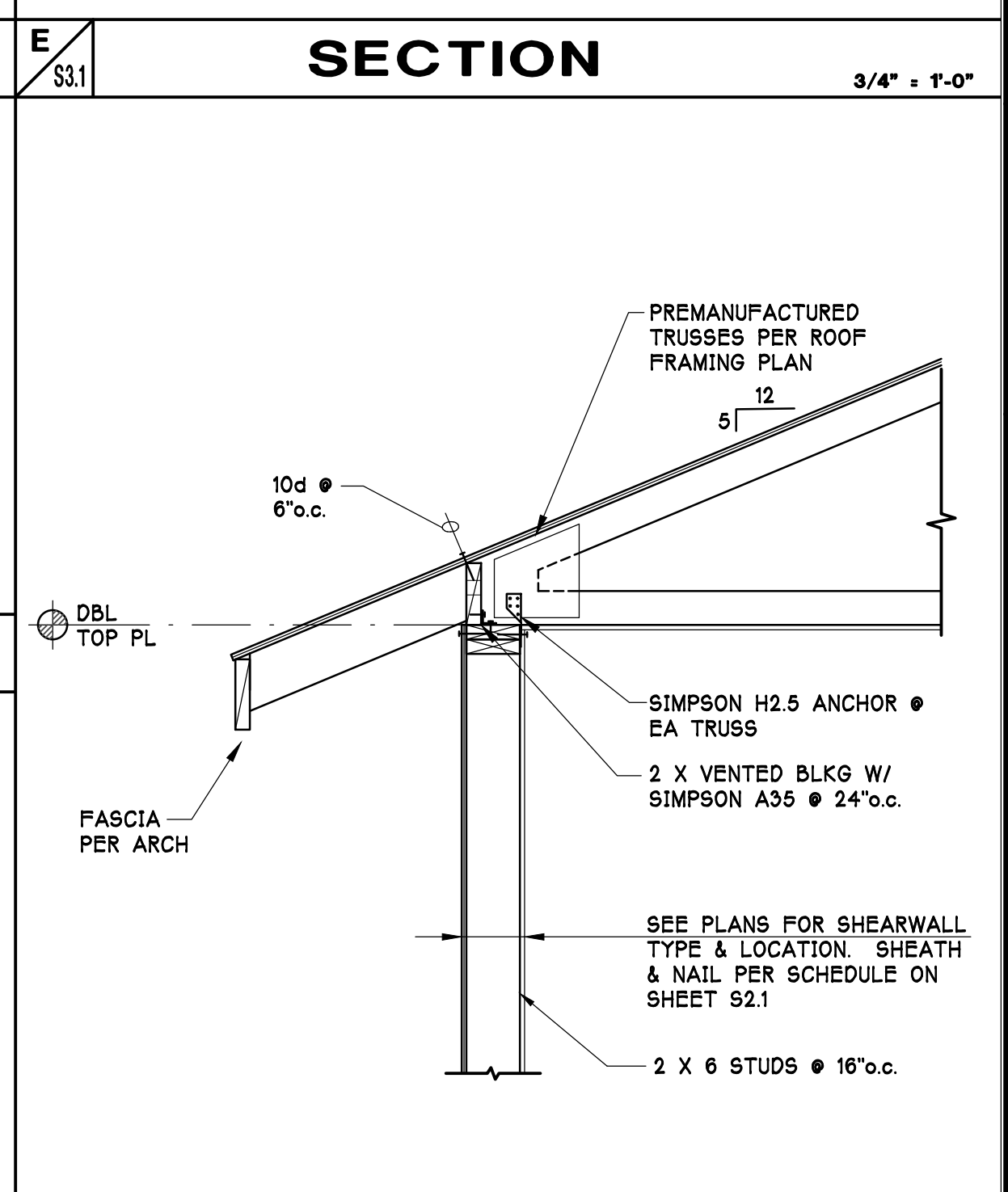
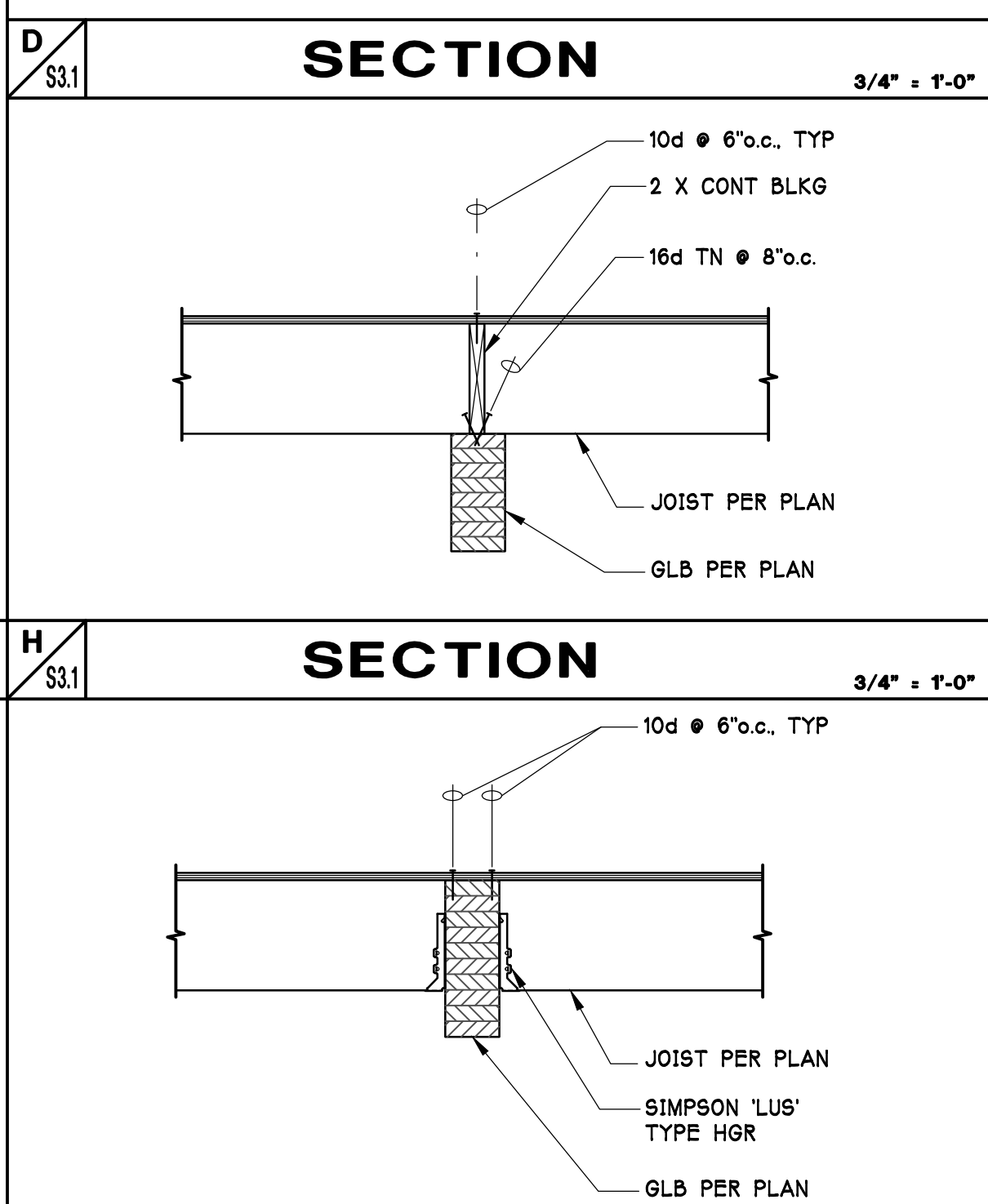
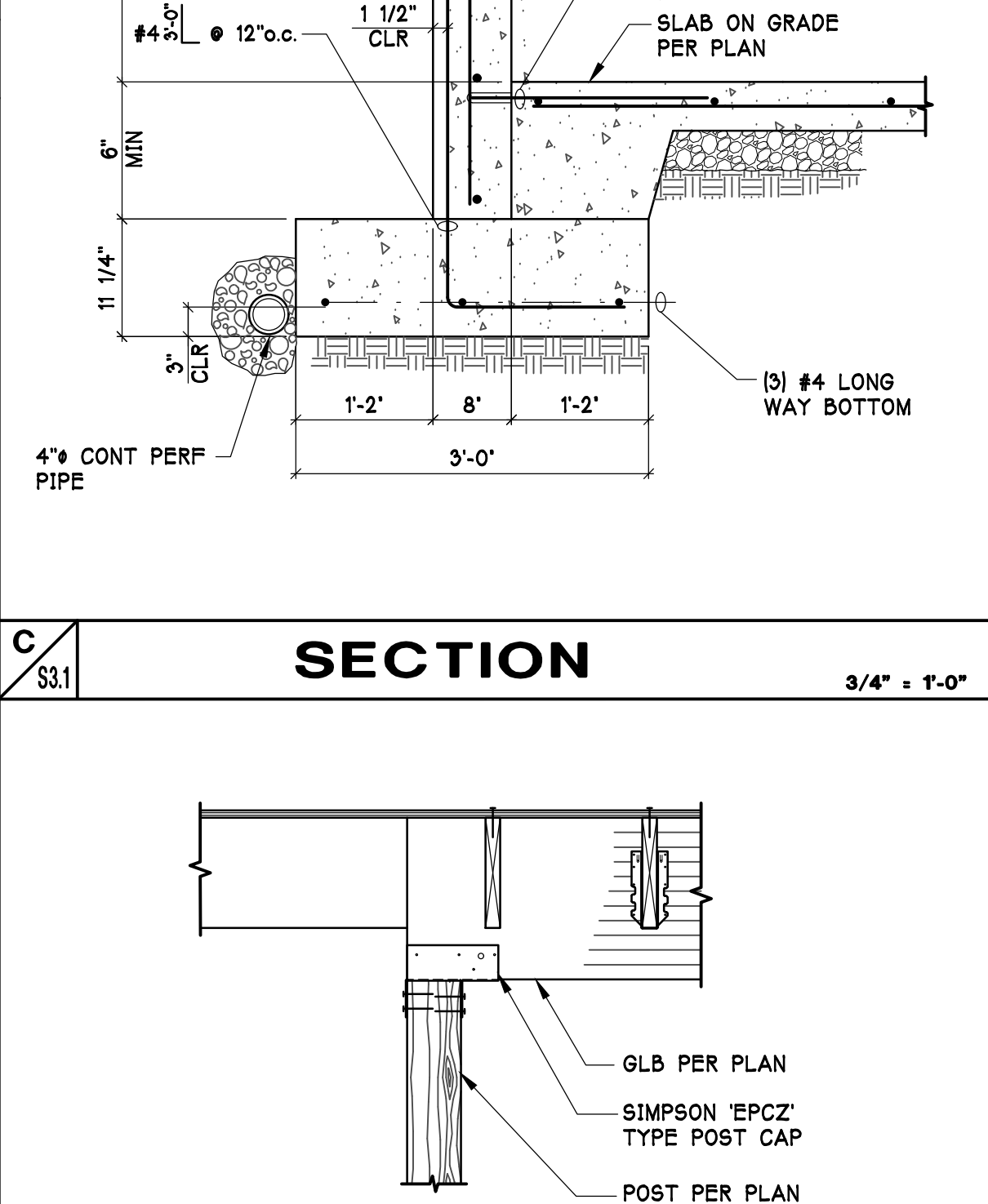
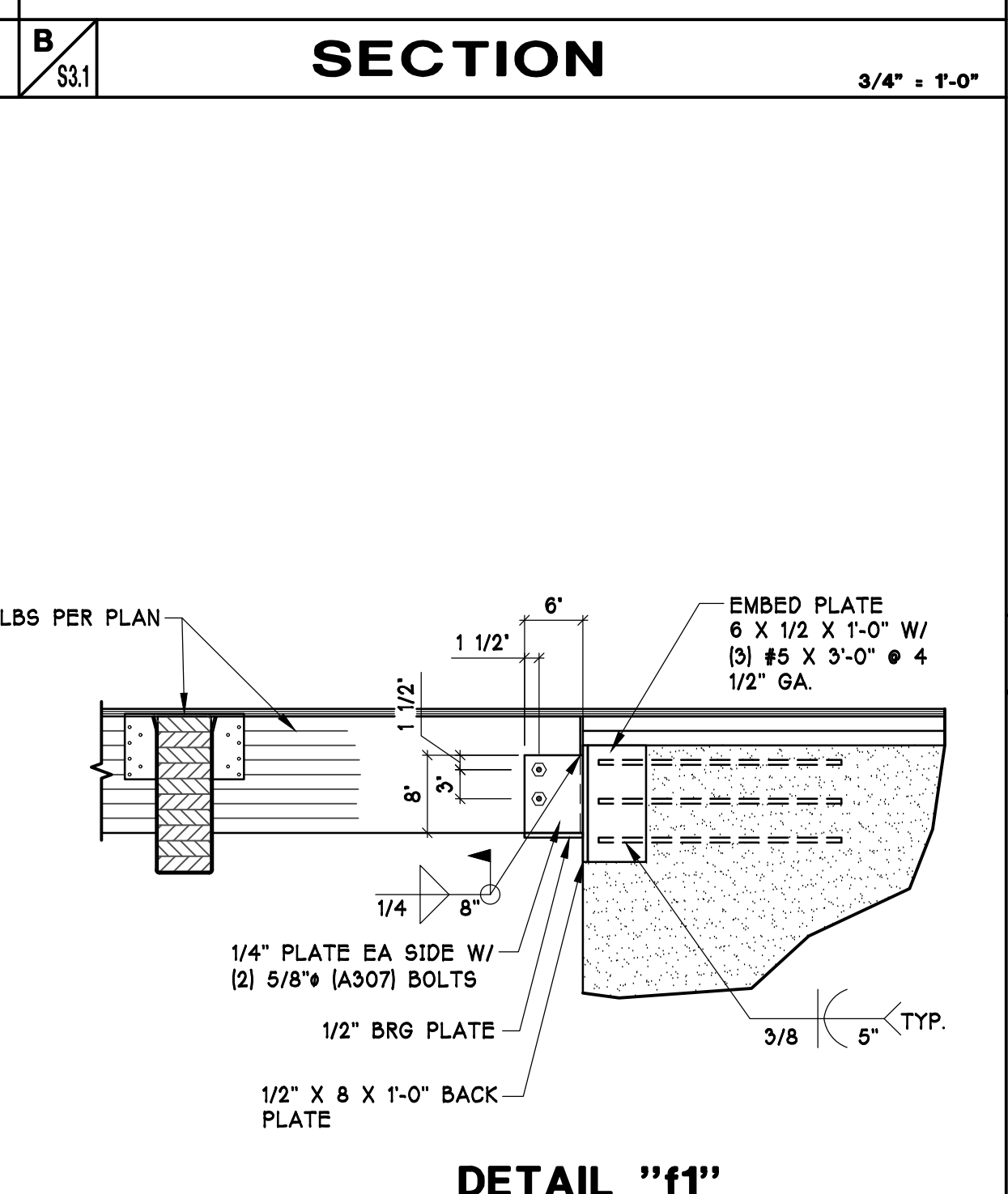
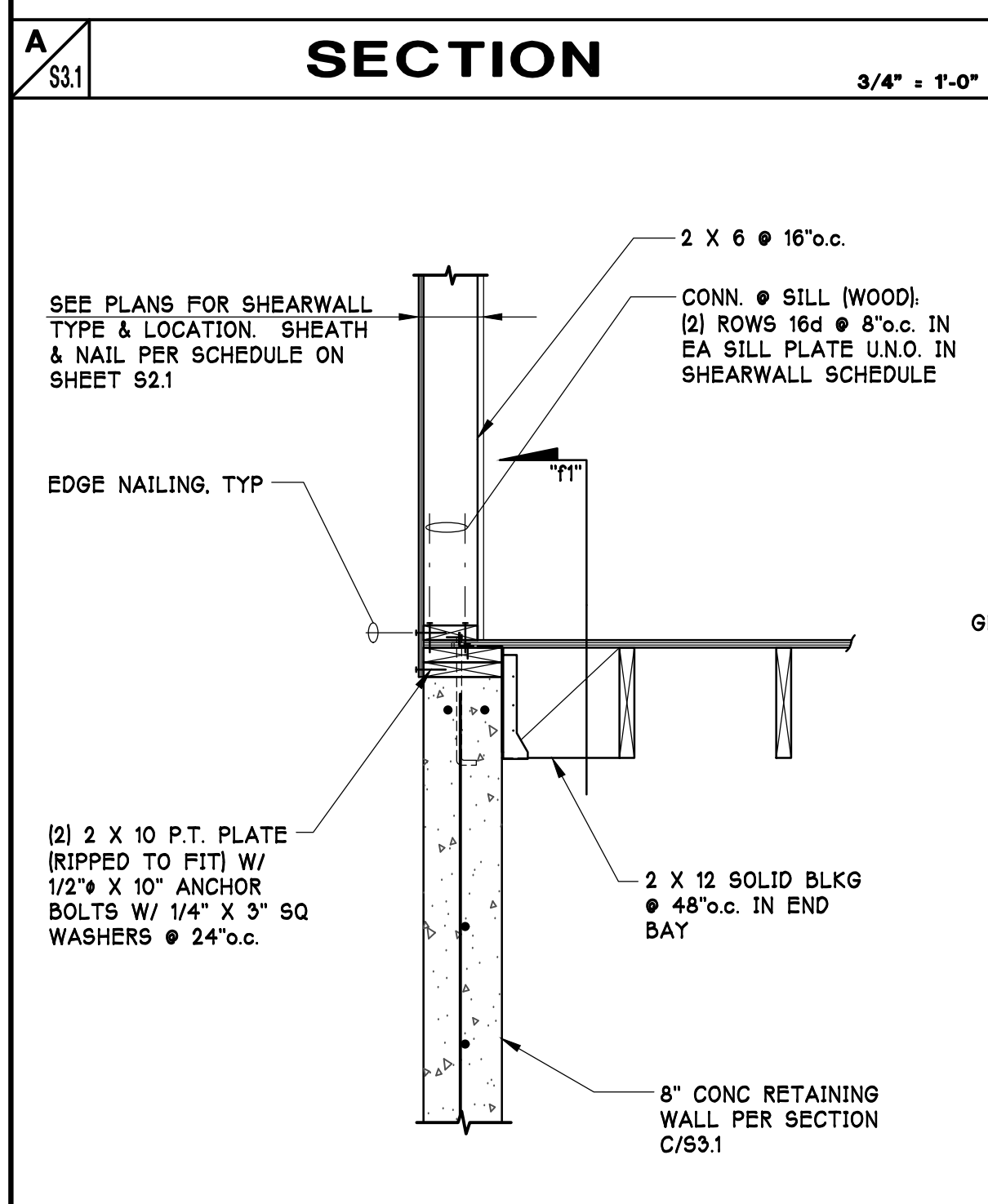
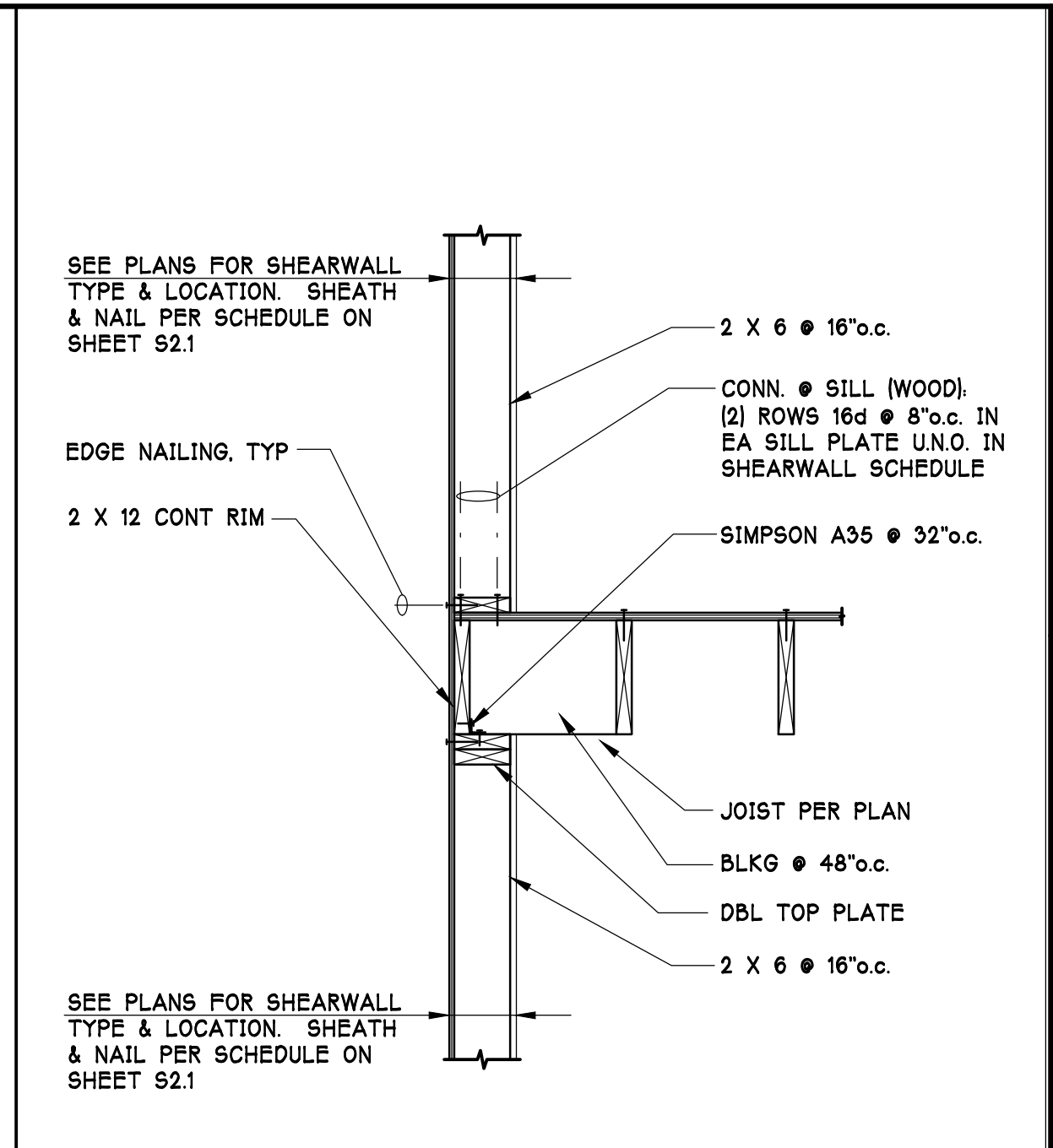
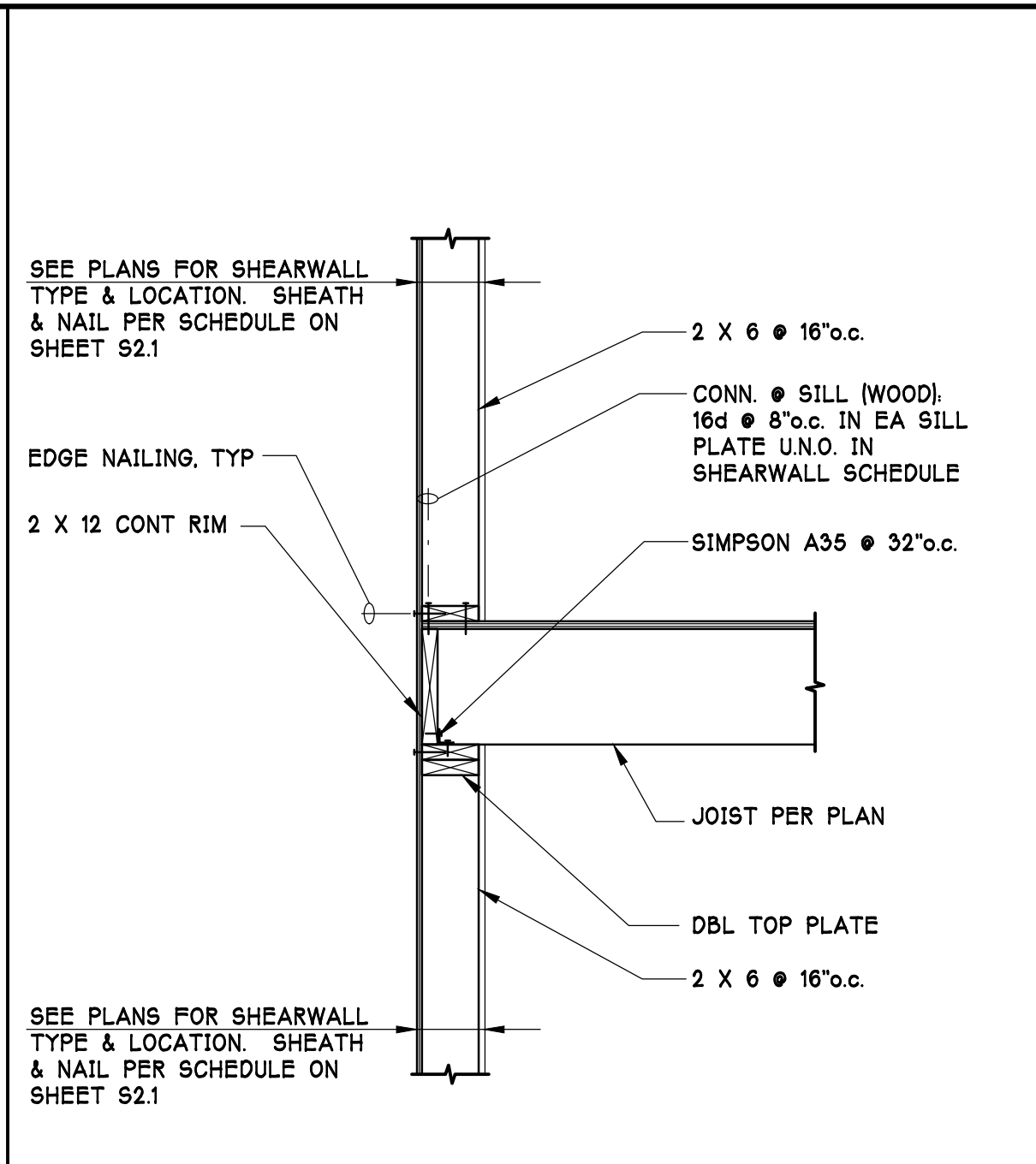
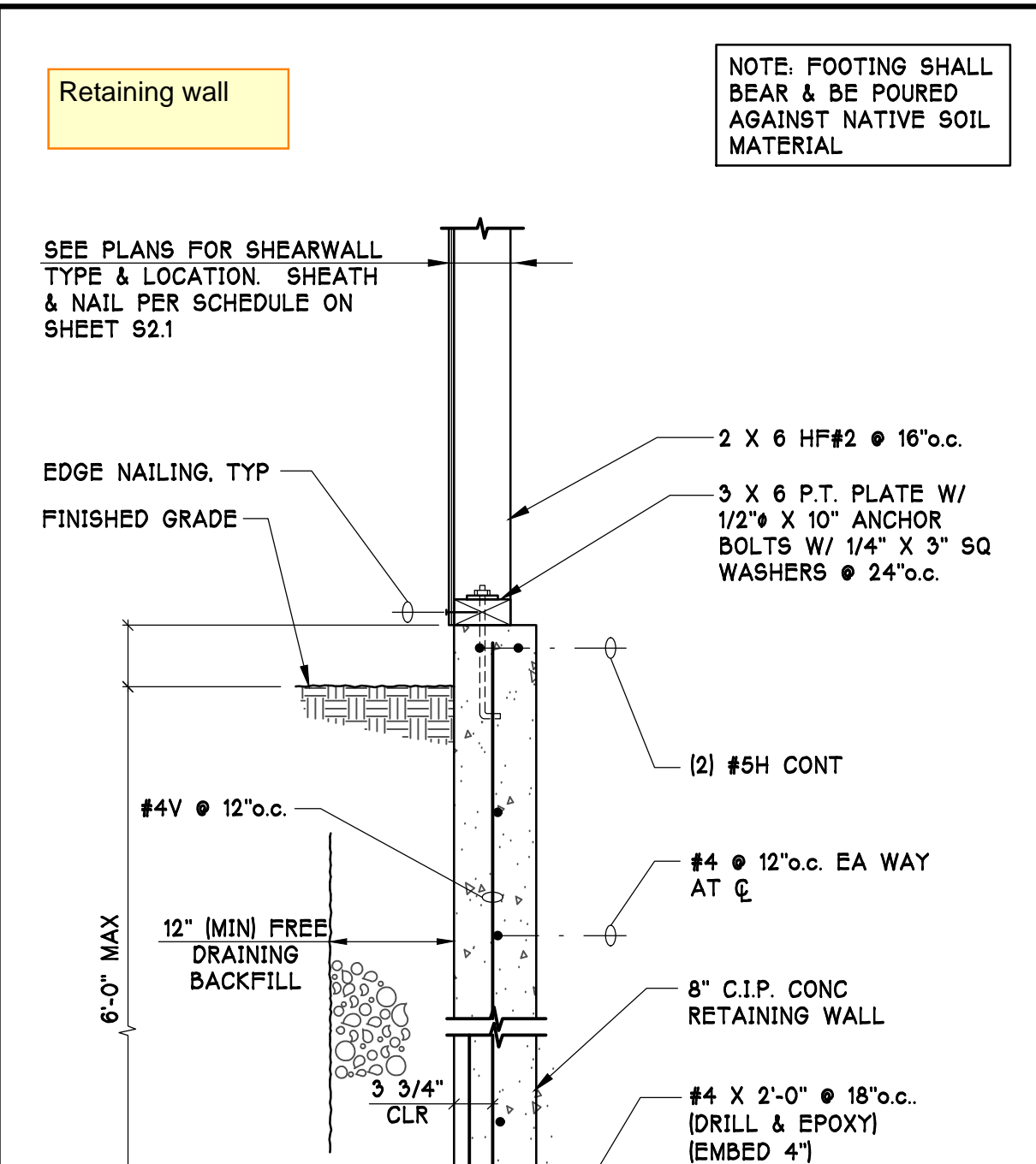
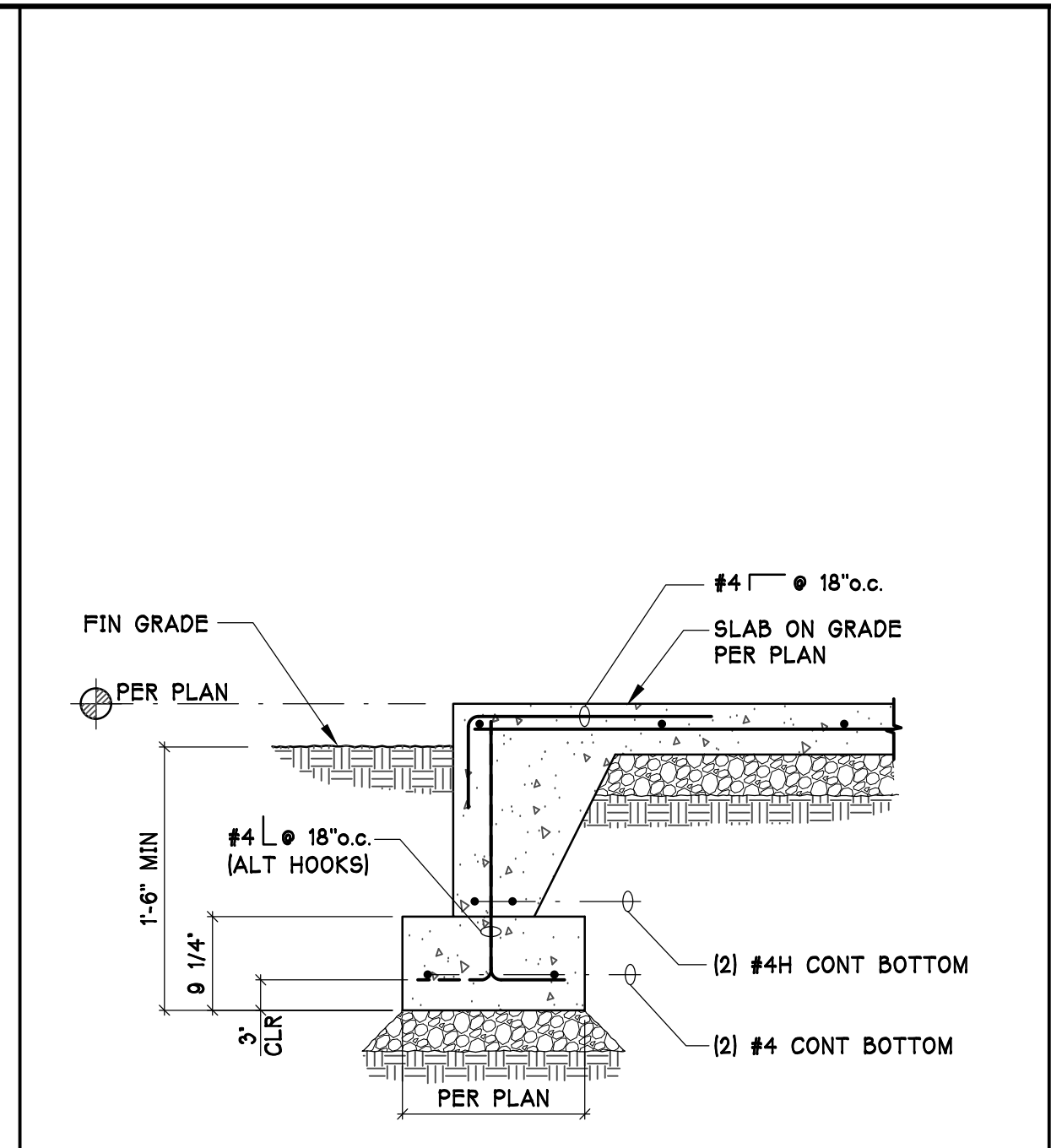
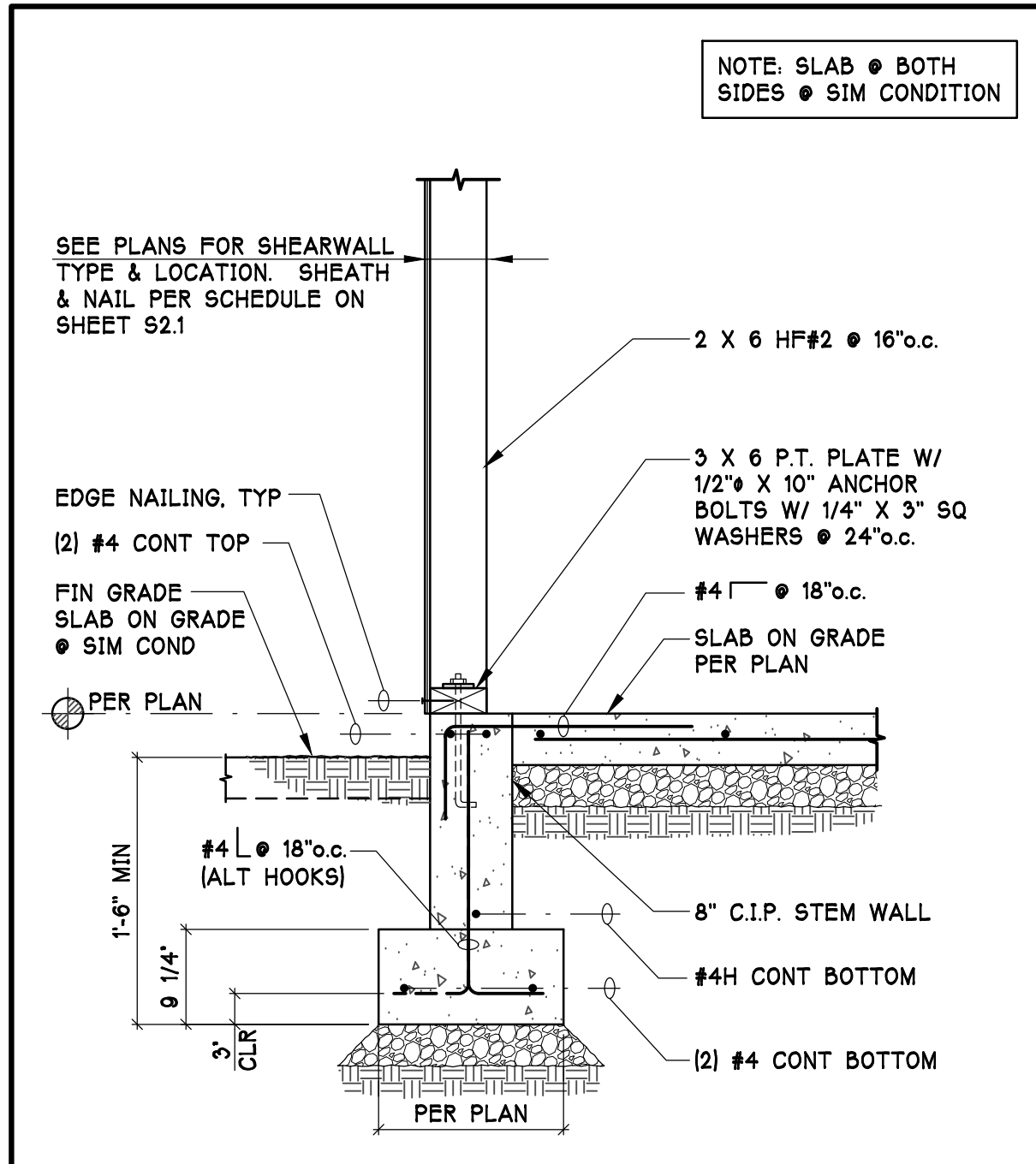
**S2.1**

**GENERAL NOTES**









City of Puyallup  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

PRRAS20221937

REVISIONS	DATE	DESCRIPTION

**B&T**  
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PROJECT TITLE

FOUNDATION DETAILS

SHEET TITLE

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SHEET :

**S3.1**

OF

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