

General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CRITERIA

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE INTERNATIONAL BUILDING CODE (2009 EDITION).
2. DESIGN LOADING CRITERIA:
ENVIRONMENTAL LOADS
WIND Kzt=1.00, Iw=1.0, GCpi=0.18, 85 MPH, EXPOSURE "B"
EARTHQUAKE . . . ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS,
SITE CLASS=D, Ss=110, Sds=81, S1=37, SD1=40, Cs=0.124
SDC D, Ie=1.0, R=6.5
3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTORS WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
5. CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-02 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".
6. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL AND NOTES SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

QUALITY ASSURANCE

7. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND SECTIONS 110 AND 1704 OF THE INTERNATIONAL BUILDING CODE BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE ARCHITECT, AND RETAINED BY THE BUILDING OWNER. THE ARCHITECT, STRUCTURAL ENGINEER, AND BUILDING DEPARTMENT SHALL BE FURNISHED WITH COPIES OF ALL INSPECTION AND TEST RESULTS. SPECIAL INSPECTION OF THE FOLLOWING TYPES OF CONSTRUCTION

EPOXY GROUTED INSTALLATIONS PER MANUFACTURER

RENOVATION

8. DEMOLITION: CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE COMMENCING ANY DEMOLITION. SHORING SHALL BE INSTALLED TO SUPPORT EXISTING CONSTRUCTION AS REQUIRED AND IN A MANNER SUITABLE TO THE WORK SEQUENCES. DEMOLITION DEBRIS SHALL NOT BE ALLOWED TO DAMAGE OR OVERLOAD THE EXISTING STRUCTURE. LIMIT CONSTRUCTION LOADING (INCLUDING DEMOLITION DEBRIS) ON EXISTING FLOOR SYSTEMS TO 40 PSF.
9. CONTRACTOR SHALL CHECK FOR DRYROT AT ALL AREAS OF NEW WORK. ALL ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

ANCHORAGE

10. EXPANSION BOLTS INTO CONCRETE SHALL BE STRONG BOLT WEDGE ANCHORS AS MANUFACTURED BY THE SIMPSON STRONG TIE COMPANY AND INSTALLED IN STRICT CONFORMANCE TO ICC-ES REPORT NUMBER ESR-1771, INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. BOLTS INTO CONCRETE MASONRY OR BRICK MASONRY UNITS SHALL BE INTO FULLY GROUTED CELLS. SPECIAL INSPECTION IS REQUIRED FOR ALL EXPANSION BOLT INSTALLATION.
11. EPOXY-GROUTED ITEMS (THREADED RODS OR REINFORCING BAR) SPECIFIED ON THE DRAWINGS SHALL BE INSTALLED USING "SET-XP" HIGH STRENGTH EPOXY AS MANUFACTURED BY THE SIMPSON STRONG, TIE COMPANY. INSTALL IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2508. SPECIAL INSPECTION OF INSTALLATION IS REQUIRED. RODS SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED.

STEEL

12. ALL ANCHORS EMBEDDED IN MASONRY OR CONCRETE SHALL BE A307 HEADED BOLTS OR A36 THREADED ROD WITH AN ASTM 563 HEAVY HEX NUT TACK WELDED ON THE EMBEDDED END.

WOOD

13. FRAMING LUMBER SHALL BE KILN DRIED OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH W.C.L.B. STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

STUDS, PLATES & MISC. FRAMING: DOUGLAS-FIR-LARCH OR HEM-FIR NO. 2

14. NEW PLYWOOD SHEATHING SHALL BE GRADE C-D, EXTERIOR GLUE OR STRUCTURAL II, EXTERIOR GLUE IN CONFORMANCE WITH DOC PS 1 OR PS 2. ORIENTED STRAND BOARD OF EQUIVALENT THICKNESS, EXPOSURE RATING AND PANEL INDEX MAY BE USED IN LIEU OF PLYWOOD.

WALL SHEATHING SHALL BE 3/4" (NOMINAL) WITH SPAN RATING 48/24.

REFER TO WOOD FRAMING NOTES BELOW FOR TYPICAL NAILING REQUIREMENTS.

15. ALL NEW WOOD IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.
16. PRESSURE TREATED WOOD (INCLUDES PRESERVATIVE AND FIRE TREATED) SHALL BE TREATED PER ANPA STANDARD. PRESSURE TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO RETENTION OF 0.25 PCF. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO A RETENTION OF 0.40 PCF. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO A RETENTION OF 0.60 PCF. SODIUM BORATE (SBX) TREATED WOOD SHALL NOT BE USED WHERE EXPOSED TO WEATHER. FASTENERS AND TIMBER CONNECTORS WITHOUT AMMONIA IN DIRECT CONTACT WITH ACQ-A (UP TO A RETENTION LEVEL OF 0.40 PCF), CBA-A (UP TO A RETENTION LEVEL OF 0.41 PCF), CA-B (UP TO A RETENTION LEVEL OF 0.21 PCF), OR SBX TREATED WOOD SHALL BE G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653. FASTENERS AND TIMBER CONNECTORS WITH AMMONIA IN DIRECT CONTACT WITH ACQ-A (OVER A RETENTION LEVEL OF 0.40 PCF), CBA-A (OVER A RETENTION LEVEL OF 0.41 PCF), CA-B (OVER A RETENTION LEVEL OF 0.21 PCF), OR WITH ACZA TREATED WOOD SHALL BE TYPE 304 OR 316 STAINLESS STEEL.
17. TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-2009. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.

18. WOOD FASTENERS

A. NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETER
8d	2-1/2"	0.131"
16d BOX	3-1/2"	0.135"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED.

- B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (2005 EDITION) WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.

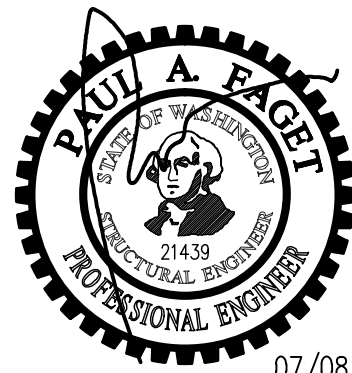
19. WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

A. ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AF&PA "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.9.1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

B. WALL FRAMING: UNLESS OTHERWISE NOTED, UNLESS INDICATED OTHERWISE, 3/4" (NOMINAL) APA RATED SHEATHING (SPAN RATING 48/24) SHALL BE NAILED TO ALL EXTERIOR SURFACES WITH 8d NAILS @ 6" ON-CENTER AT PANEL EDGES AND TOP AND BOTTOM PLATES (BLOCK UN-SUPPORTED EDGES) AND TO ALL INTERMEDIATE STUDS AND BLOCKING WITH 8d NAILS @ 12" ON-CENTER ALLOW 1/8" SPACING AT ALL PANEL EDGES AND PANEL ENDS.



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07/08/11

DRAWN:	SWH
DESIGN:	GFJ
CHECKED:	GFJ
APPROVED:	PAF

REVISIONS:

NO.	DESCRIPTION	DATE
1	Permit Corrections	June 30, 2011

PROJECT TITLE:

Si View Park
400 SE Orchard Drive
North Bend, WA 98045

ARCHITECT:

Taproot Architects LLC
PO Box 1026
Langley, WA 98260
PH 360.321.4447
FX 360.321.4665

ISSUE:

Construction Set

SHEET TITLE:

General Structural Notes

SCALE:

None

DATE:

July 08, 2011

PROJECT NO.:

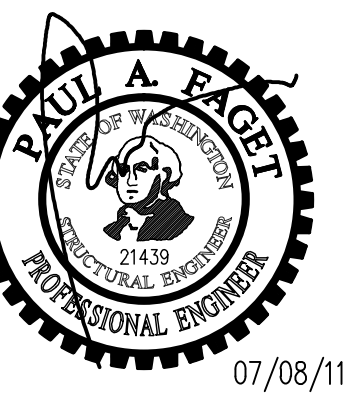
1753-2011-01-00

SHEET NO.:

S1.1

NO: OF SHEETS:

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 DESIGN: GFJ
 CHECKED: GFJ
 APPROVED: PAF

REVISIONS:

1	Permit Corrections	June 30, 2011

PROJECT TITLE:
Si View Park
 400 SE Orchard Drive
 North Bend, WA 98045

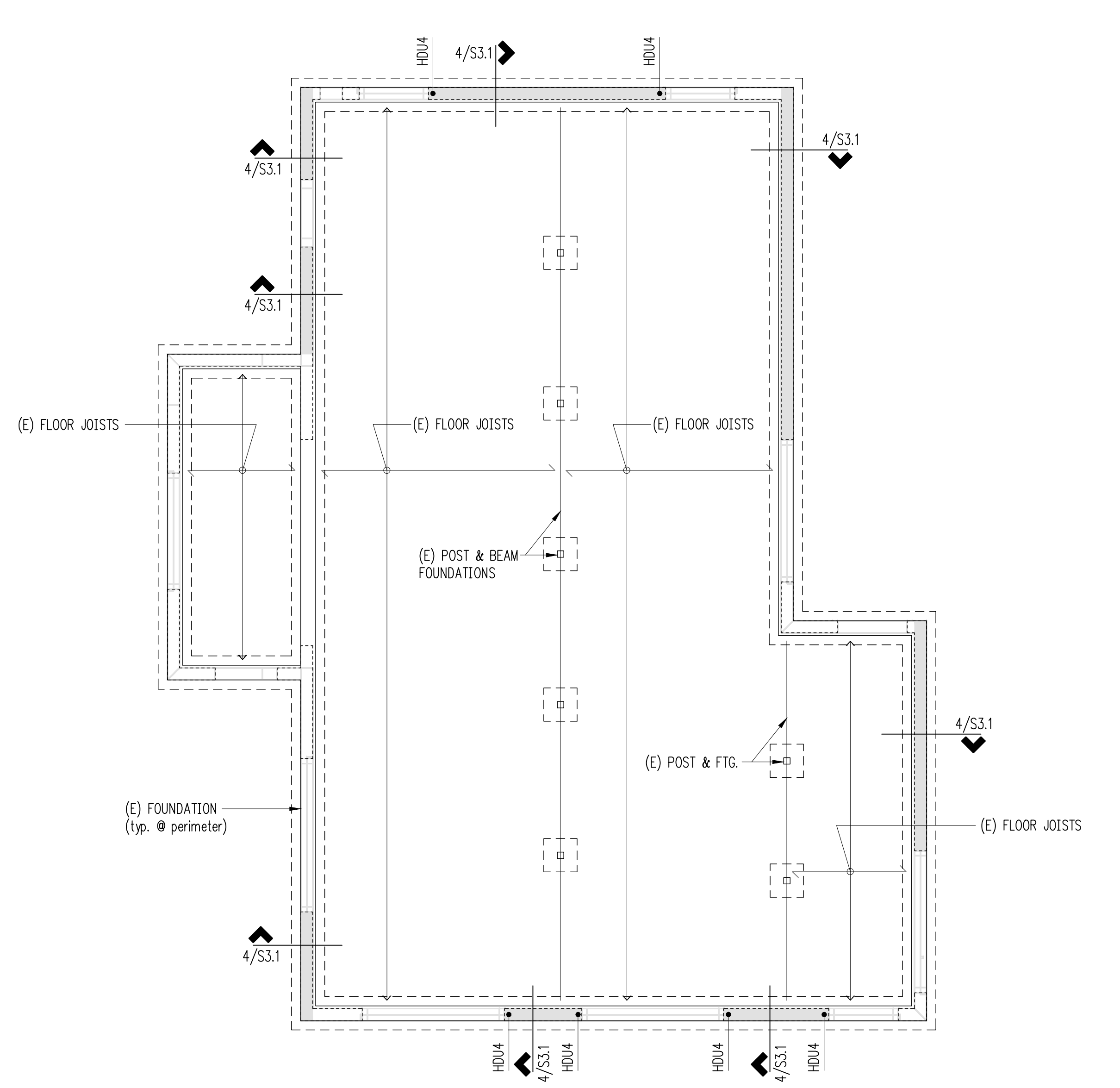
ARCHITECT:
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ISSUE:
Construction Set

SHEET TITLE:
Park Annex Plans

SCALE: 1/4" = 1'-0" U.N.O.
 DATE: July 08, 2011
 PROJECT NO: 1753-2011-01-00
 SHEET NO:

S2.1
 NO. OF SHEETS:



**Main Floor Framing/
 Foundation Plan**

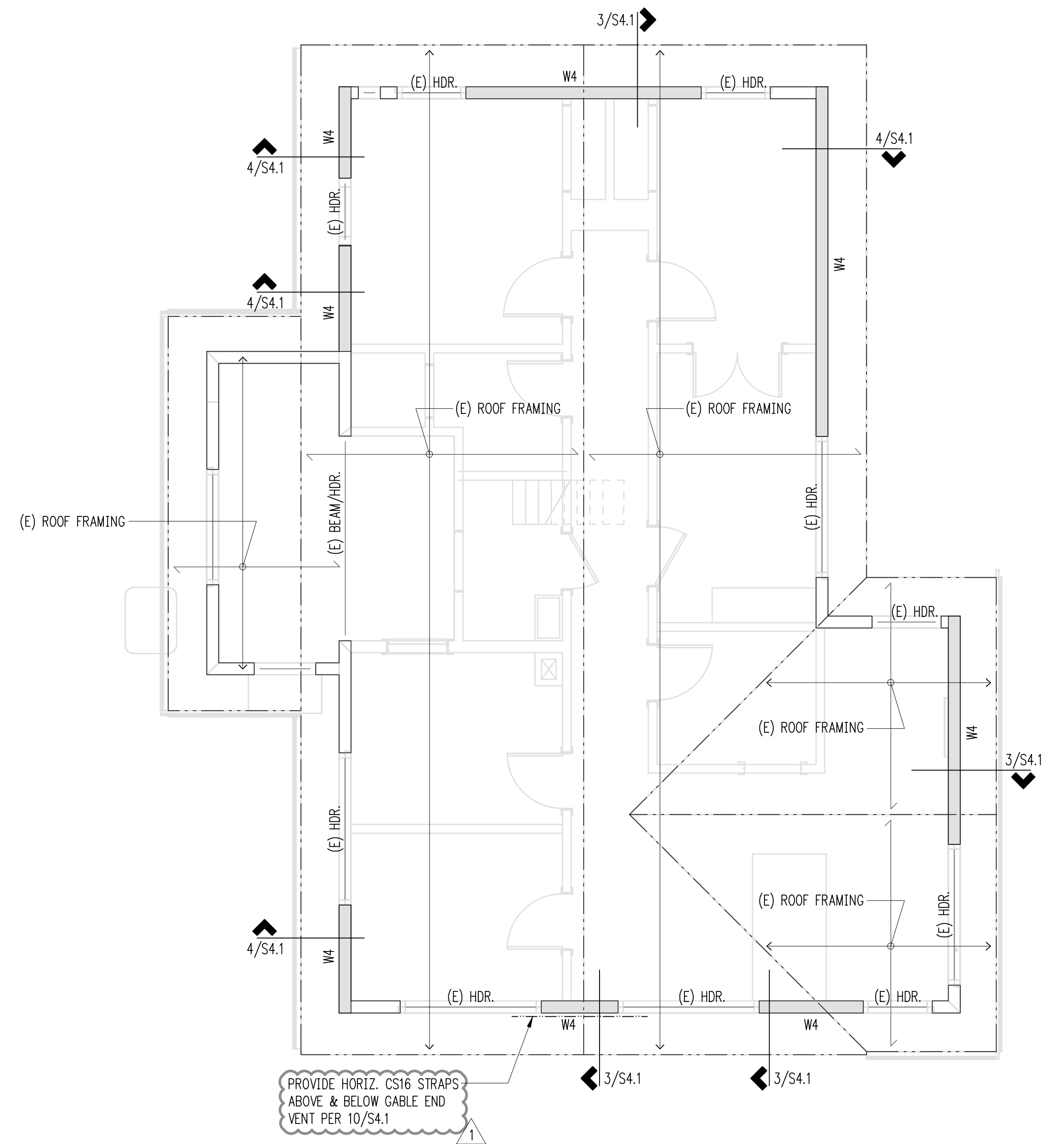
Plan Notes

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- EXISTING FOUNDATIONS
- AREA TO BE UPGRADED
- EXISTING STRUCTURAL WALL ABOVE
- SPAN DIRECTION OF FRAMING
- EXTENTS OF FRAMING
- HOLDOWN PER PLAN, REFER SCHEDULE 12/S3.1

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



PROVIDE HORIZ. C516 STRAPS ABOVE & BELOW GABLE END VENT PER 10/S4.1

Roof Framing Plan

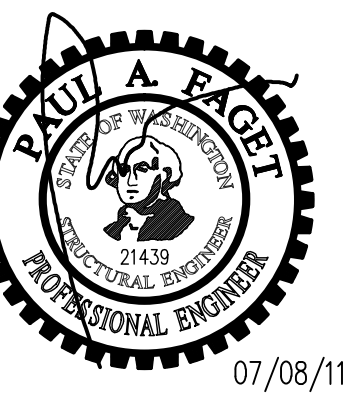
Plan Notes

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS. TOP OF SLAB ELEVATIONS ARE ASSUMED. VERIFY WITH ARCHITECTURAL.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

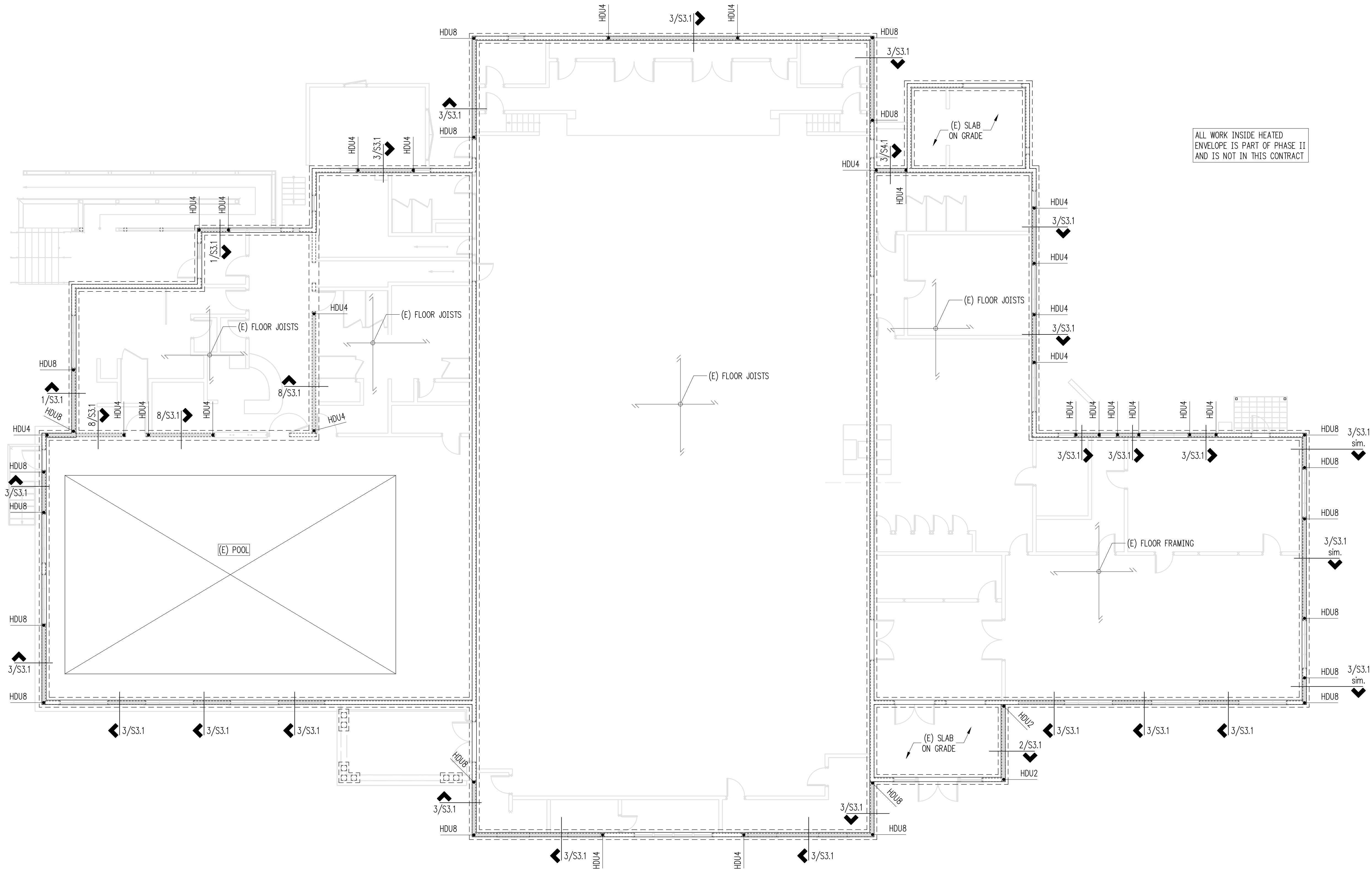
- EXISTING STRUCTURAL WALL
- EXISTING NON-STRUCTURAL WALL
- EXISTING STRUCTURAL WALL TO BE UPGRADED PER PLAN
- SPAN DIRECTION OF FRAMING
- EXTENTS OF FRAMING
- DENOTES NEW SHEARWALL REQUIREMENTS
- UPGRADED WALL LOCATIONS, REFER TO SCHEDULE 12/S4.1

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



DRAWN: SWH
 DESIGN: GFJ
 CHECKED: GFJ
 APPROVED: PAF

REVISIONS:
 1. Permit Corrections June 30, 2011



ALL WORK INSIDE HEATED ENVELOPE IS PART OF PHASE II AND IS NOT IN THIS CONTRACT

Plan Notes

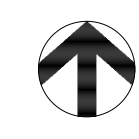
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- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- EXISTING FOUNDATIONS
- AREA TO BE UPGRADED
- EXISTING STRUCTURAL WALL ABOVE
- SPAN DIRECTION OF FRAMING
- EXTENTS OF FRAMING
- HD HOLDOWN PER PLAN, REFER SCHEDULE 12/S3.1

Main Floor Framing/Foundation Plan

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



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 North Bend, WA 98045

ARCHITECT:
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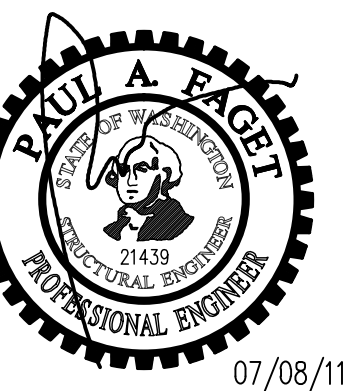
Community Center Main Floor Framing/Foundation Plan

SCALE: 1/8" = 1'-0" U.N.O.
 DATE: July 08, 2011
 PROJECT NO: 1753-2011-01-00
 SHEET NO:

S2.2

NO. OF SHEETS:

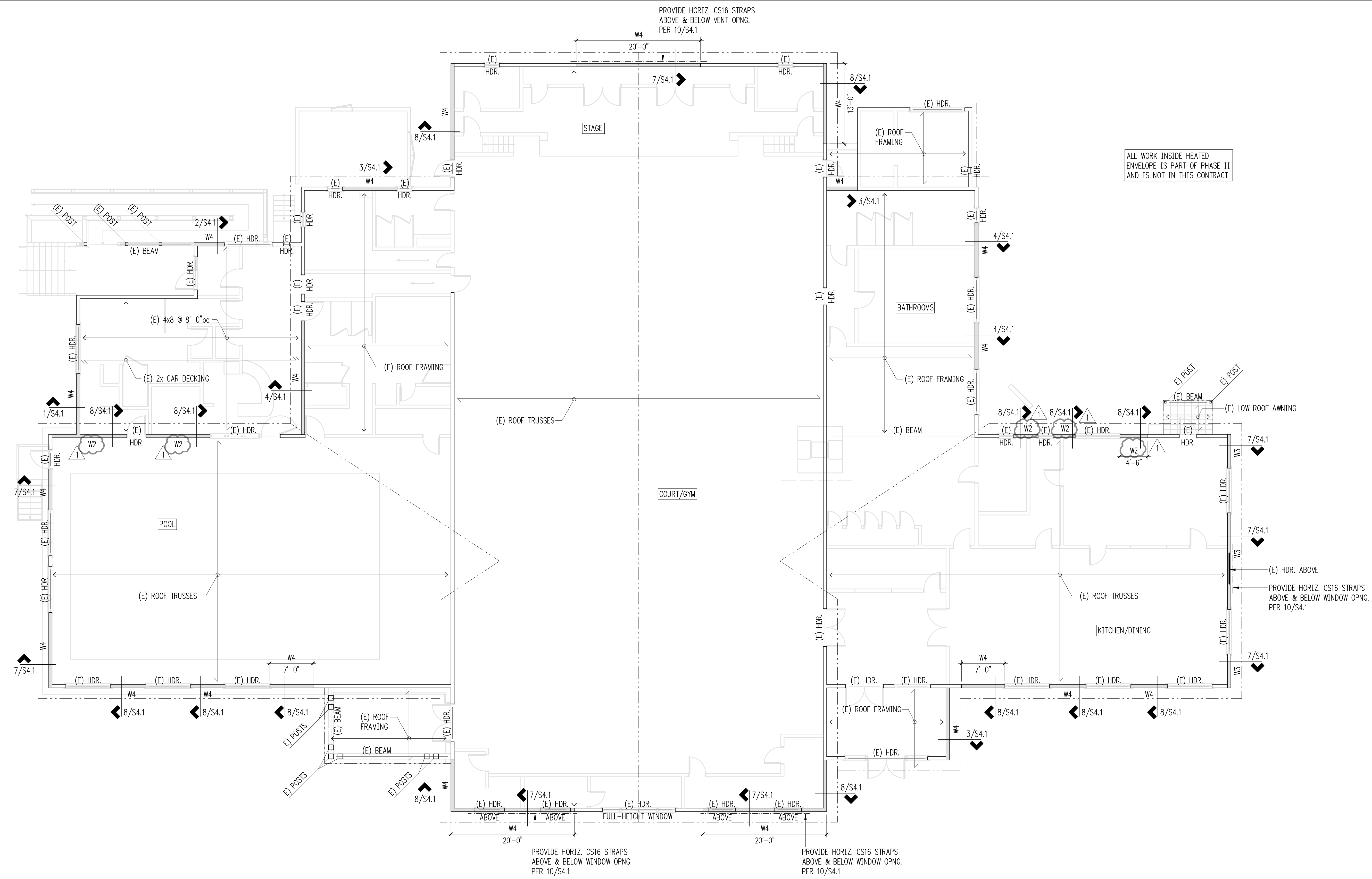
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 DESIGN: GFJ
 CHECKED: GFJ
 APPROVED: PAF

REVISIONS:

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PROVIDE HORIZ. CS16 STRAPS ABOVE & BELOW WINDOW OPNG. PER 10/S4.1

PROVIDE HORIZ. CS16 STRAPS ABOVE & BELOW WINDOW OPNG. PER 10/S4.1

Plan Notes

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- EXISTING STRUCTURAL WALL
- EXISTING NON-STRUCTURAL WALL
- EXISTING STRUCTURAL WALL TO BE UPGRADED PER PLAN
- SPAN DIRECTION OF FRAMING
- EXTENTS OF FRAMING
- DENOTES NEW SHEARWALL REQUIREMENTS
- UPGRADED WALL LOCATIONS, REFER TO SCHEDULE 12/S4.1

Roof Framing Plan
 Scale: 1/8" = 1'-0"

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Construction Set

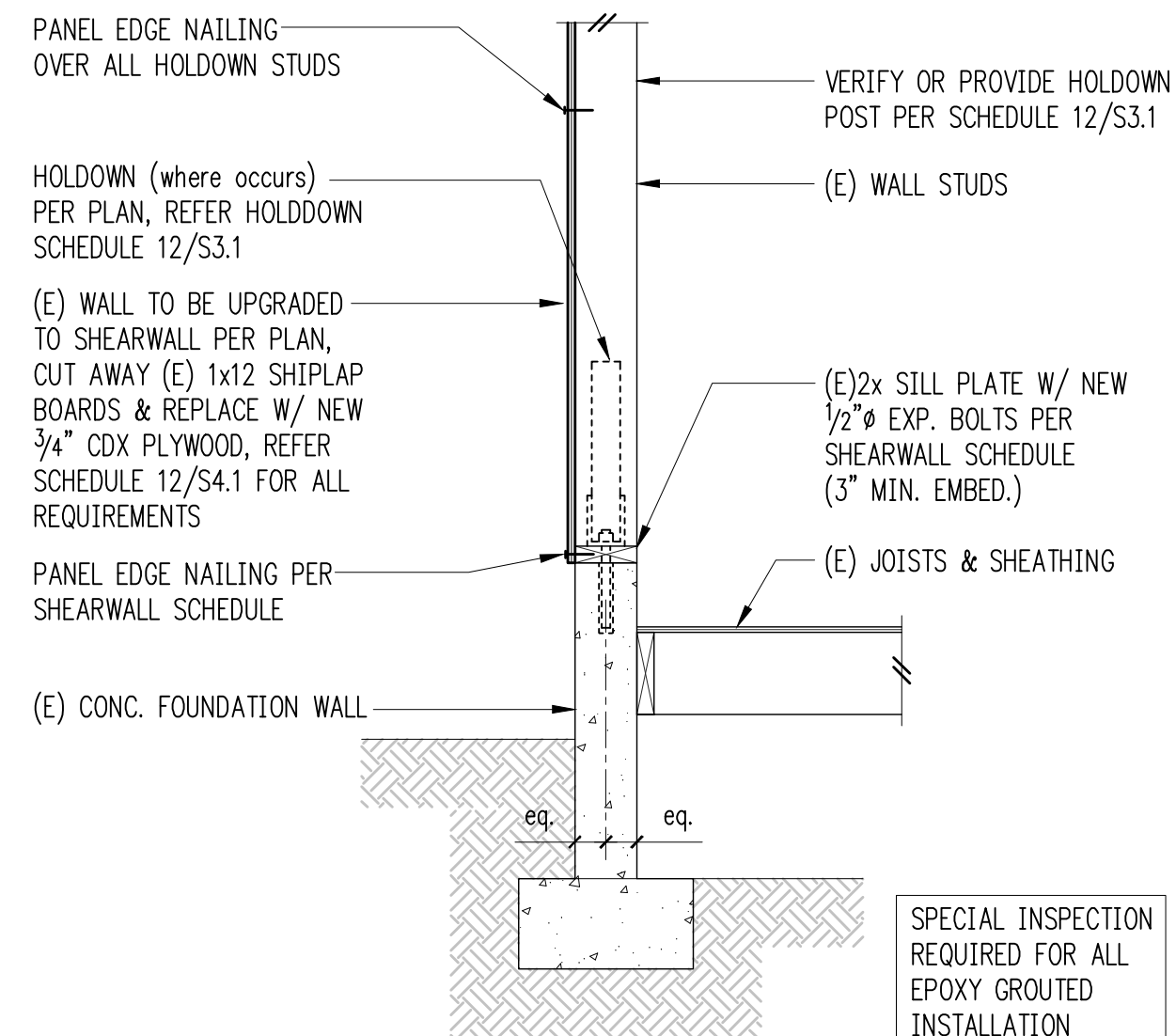
Community Center Roof Framing Plan

SCALE: 1/8" = 1'-0" U.N.O.
 DATE: July 08, 2011
 PROJECT NO: 1753-2011-01-00
 SHEET NO:

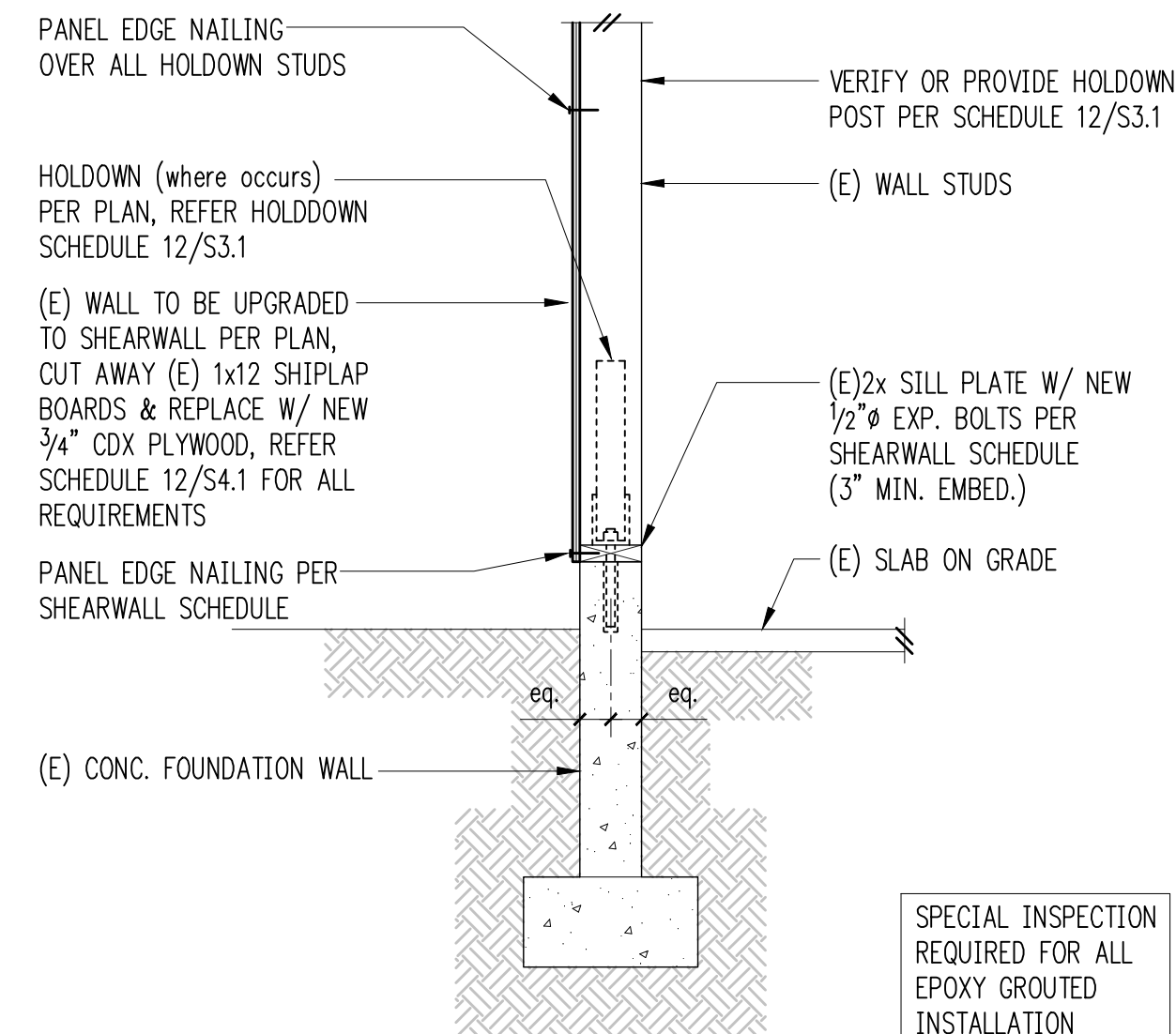
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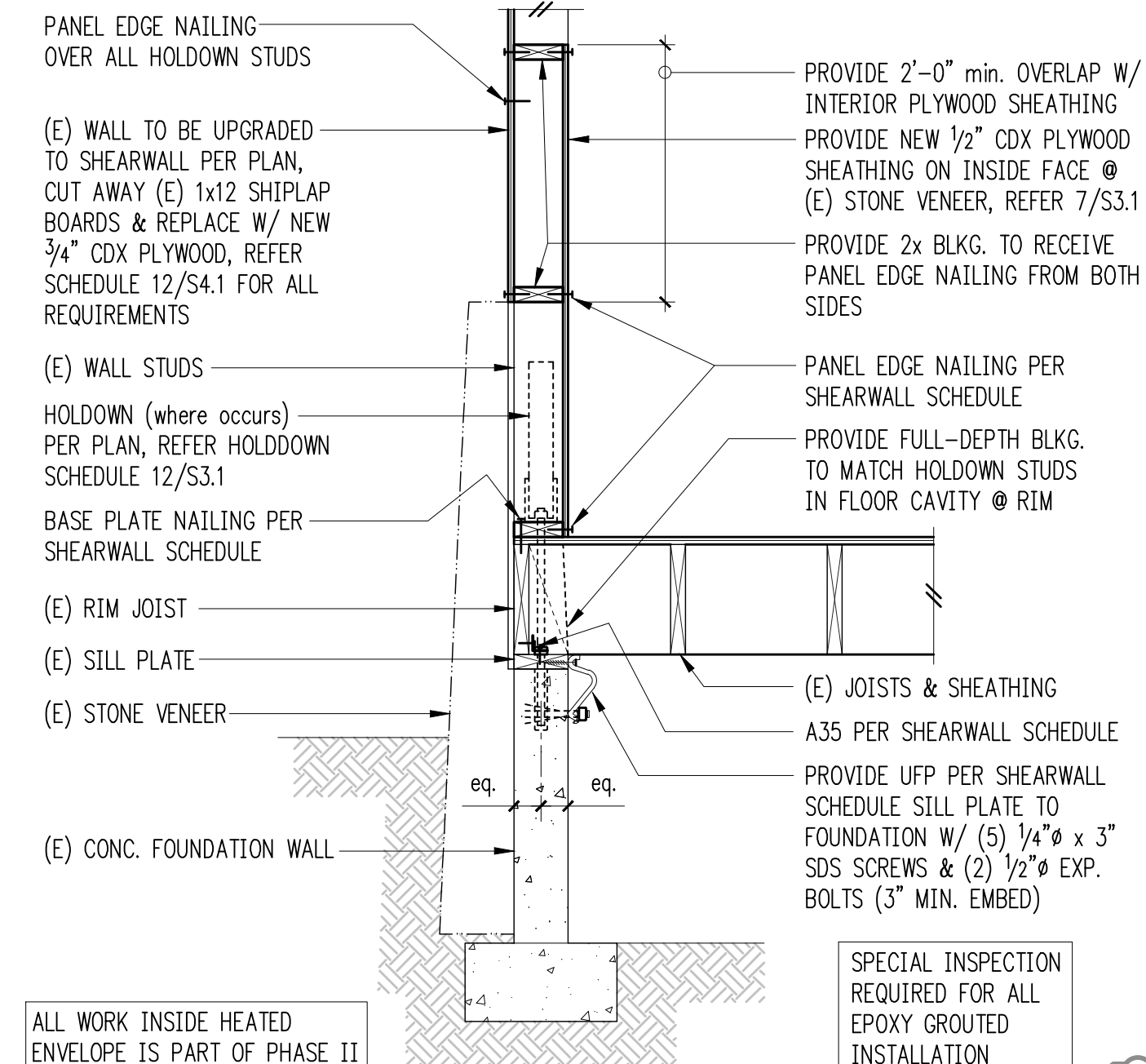
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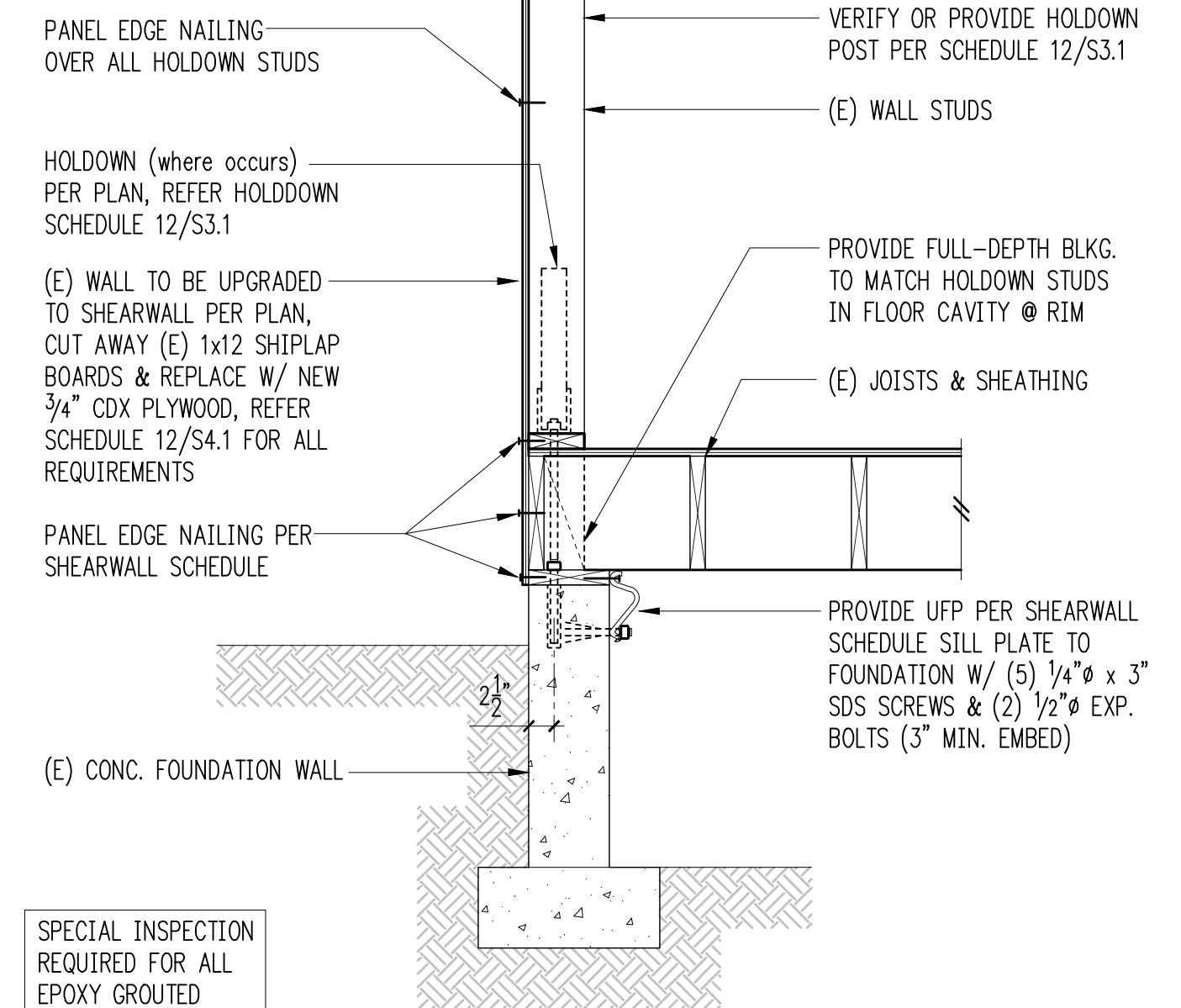
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2



3



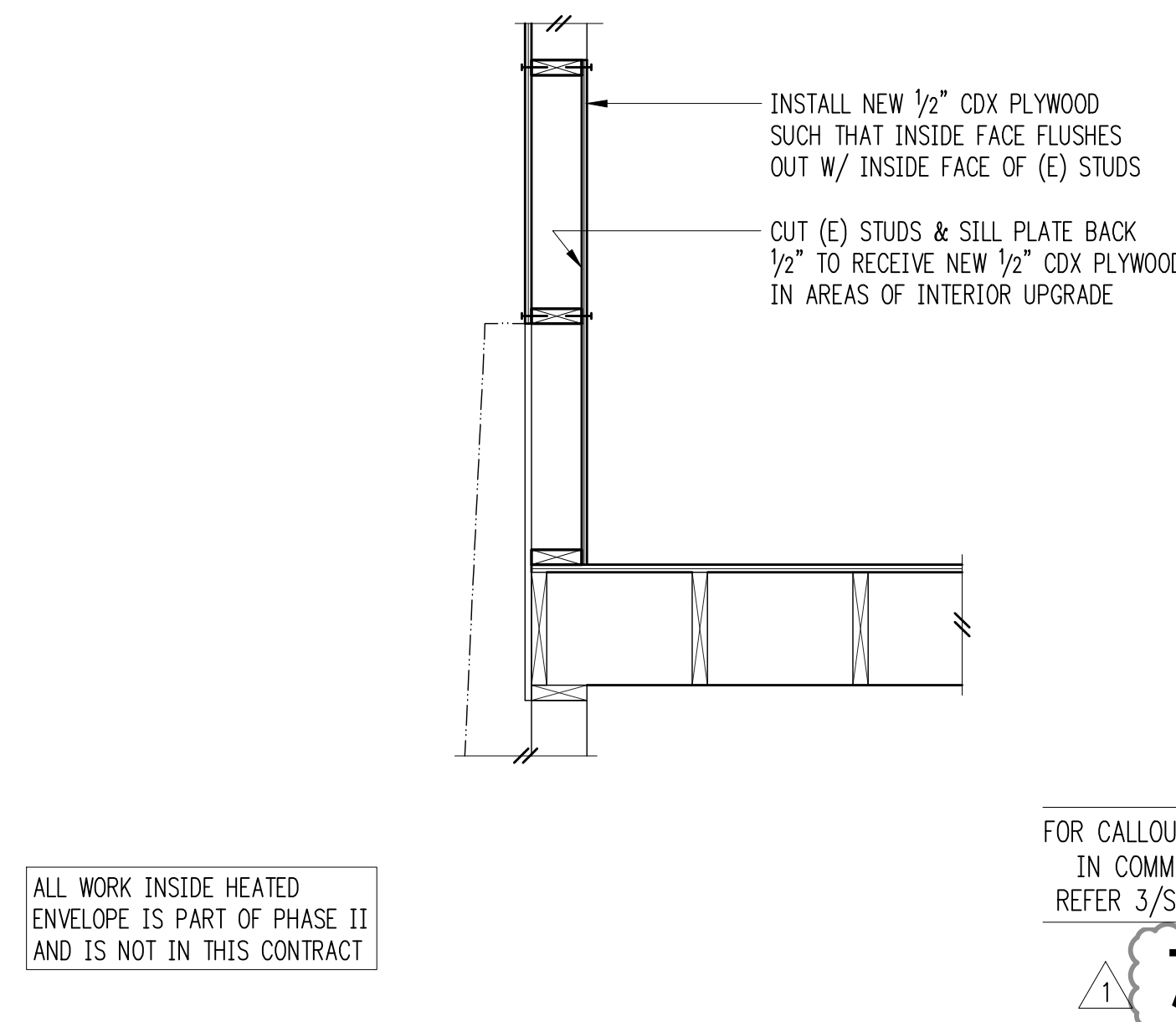
Exterior Framing at Crawl Space 4



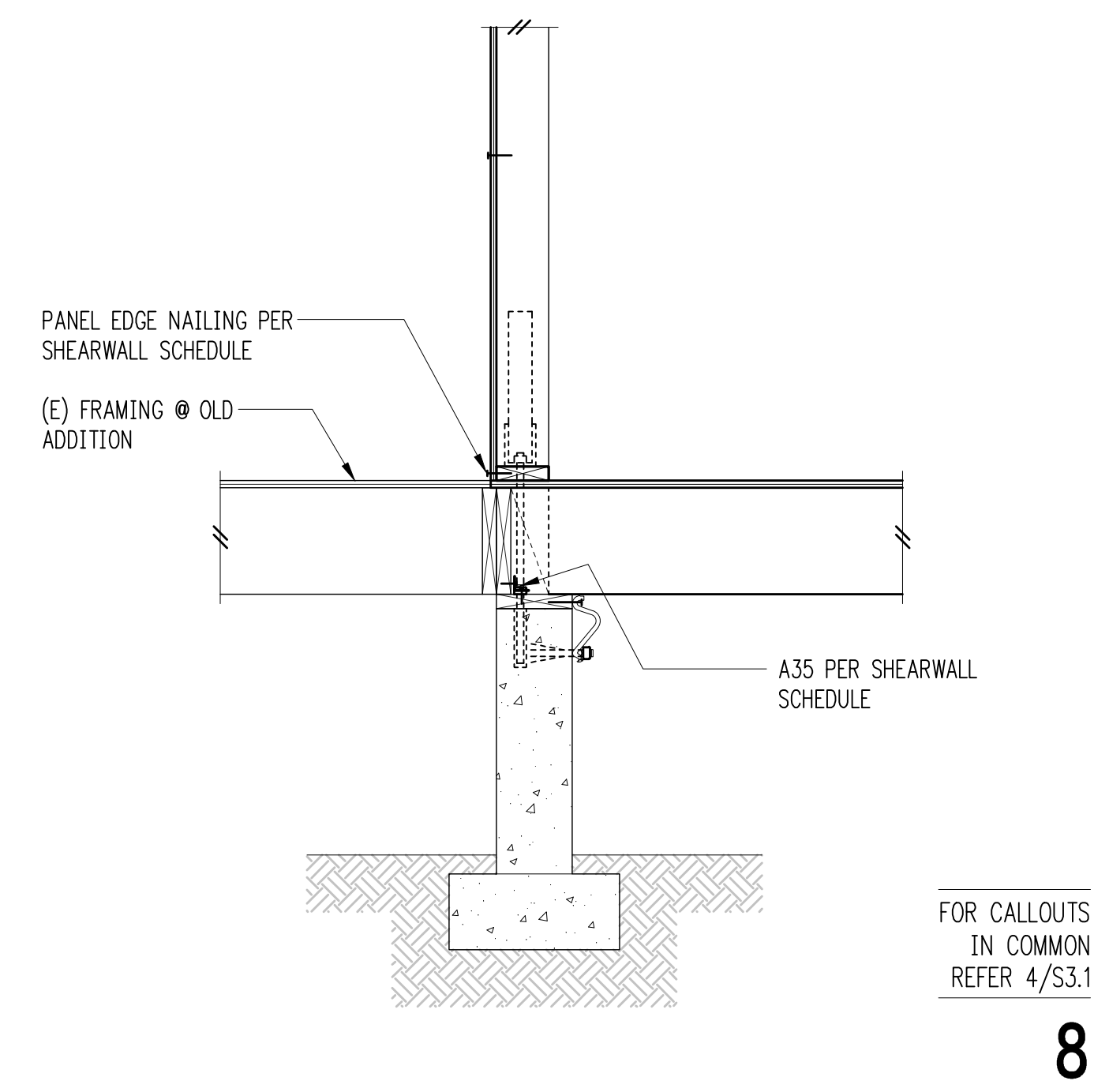
5



6



7



8



9



10



11

ALL WORK INSIDE HEATED ENVELOPE IS PART OF PHASE II AND IS NOT IN THIS CONTRACT

Holdown Schedule

Plan Mark	Screws	All-Thread	Epoxy Embed	Holdown Studs ①②	
				if 2x4	if 2x6
HDU2-SDS2.5	(6)SDS 1/4"x2/2"	5/8"ø	12"	(2) 2x4	(2) 2x6
HDU4-SDS2.5	(10)SDS 1/4"x2/2"	5/8"ø	12"	(2) 2x4	(2) 2x6
HDU5-SDS2.5	(14)SDS 1/4"x2/2"	5/8"ø	12"	(2) 2x4	(2) 2x6
HDU8-SDS2.5	(20)SDS 1/4"x2/2"	7/8"ø	14"	4x4	4x6

① MINIMUM SIZE OF STUDS AT END OF WALL UNLESS OTHERWISE NOTED ON FRAMING PLANS.
 ② WHEN INSTALLING NEW HOLDOWN STUDS, PRE-CUT NEW STUDS TO RECEIVE RECESSED 1/2" PLYWOOD AS SHOWN PER 7/S3.1

SPECIAL INSPECTION REQUIRED FOR ALL EPOXY GROUTED INSTALLATION

Typical HDU Holdown 12



DRAWN: SWH
 DESIGN: GFJ
 CHECKED: GFJ
 APPROVED: PAF

REVISIONS:

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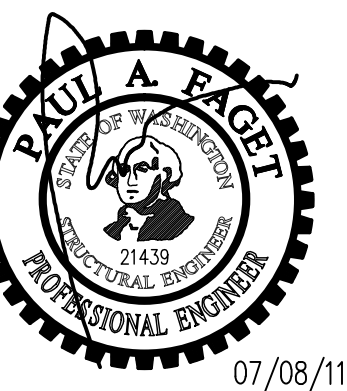
ISSUE:
Construction Set

SHEET TITLE:
Foundation Details

SCALE:
 3/4" = 1'-0" U.N.O.
 DATE:
 July 08, 2011
 PROJECT NO:
 1753-2011-01-00
 SHEET NO:

S3.1
 NO. OF SHEETS:

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REVISIONS:
1 Permit Corrections June 30, 2011

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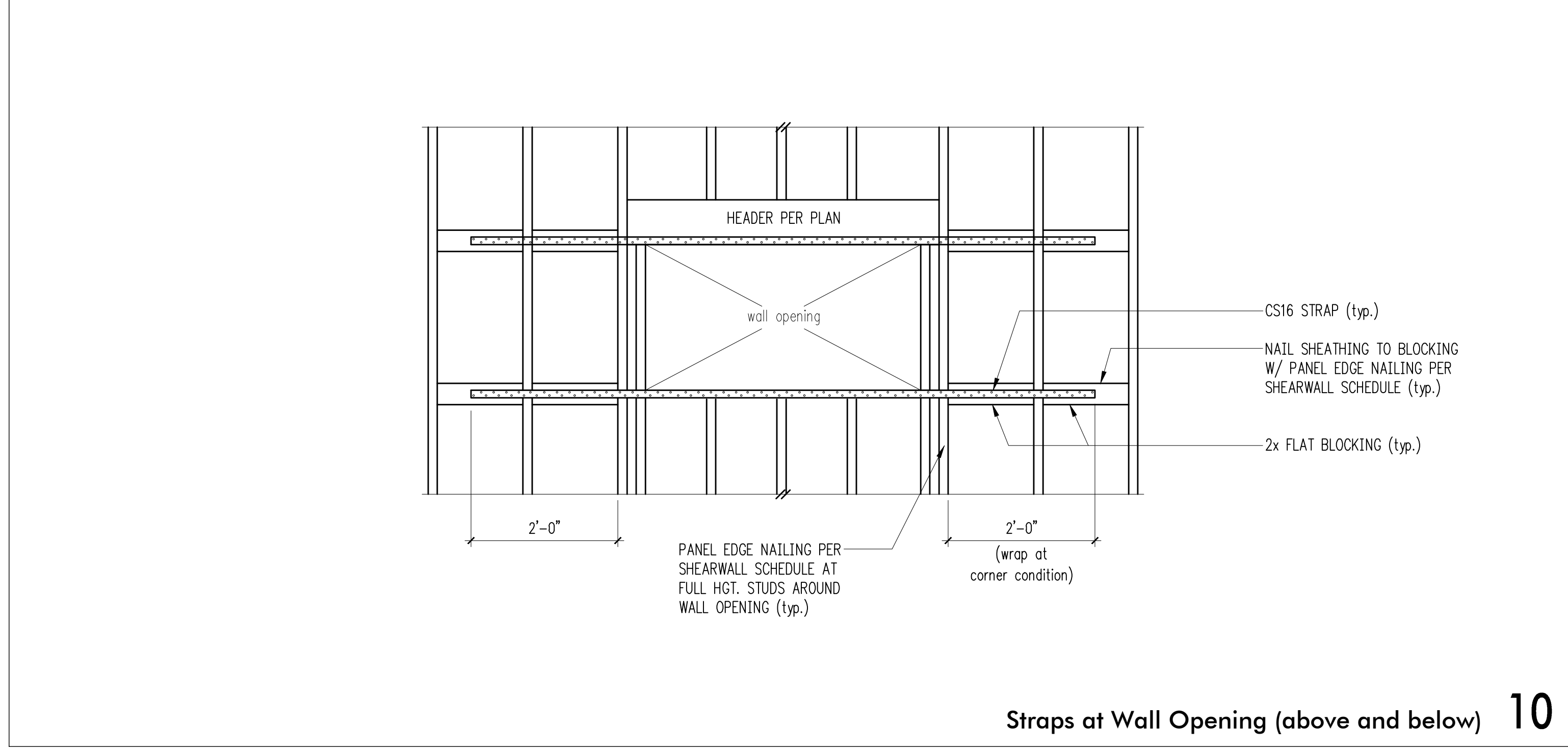
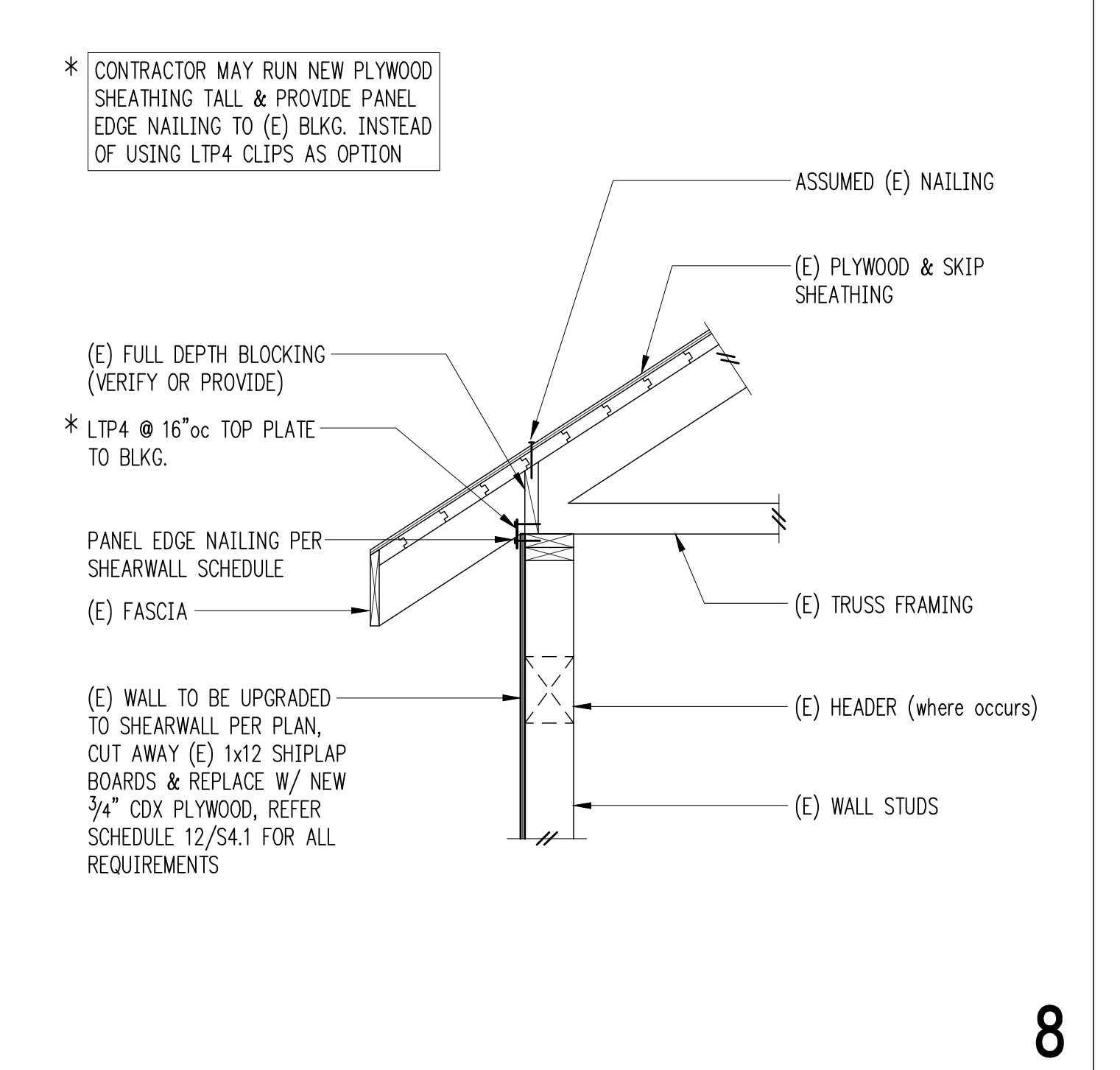
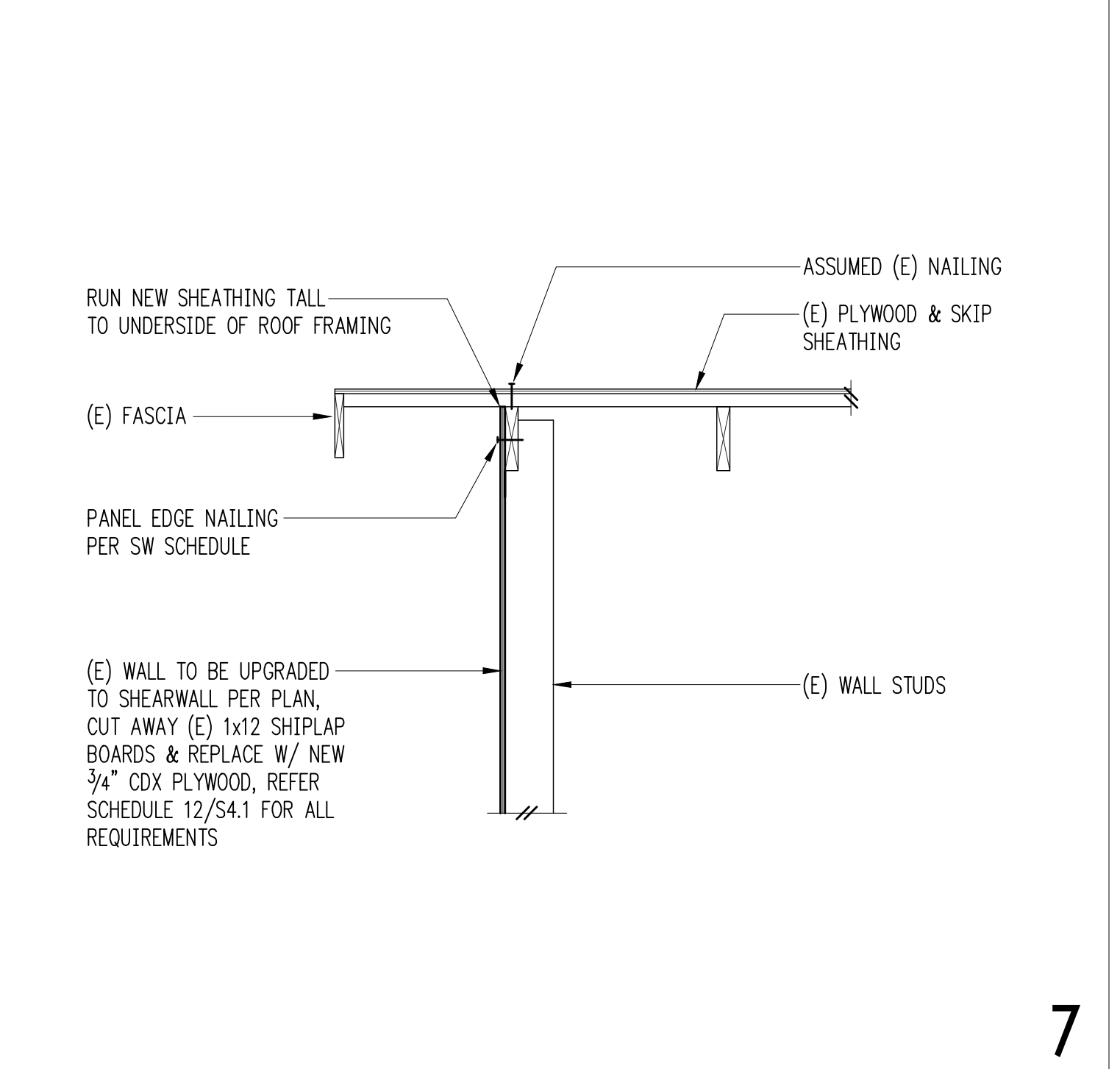
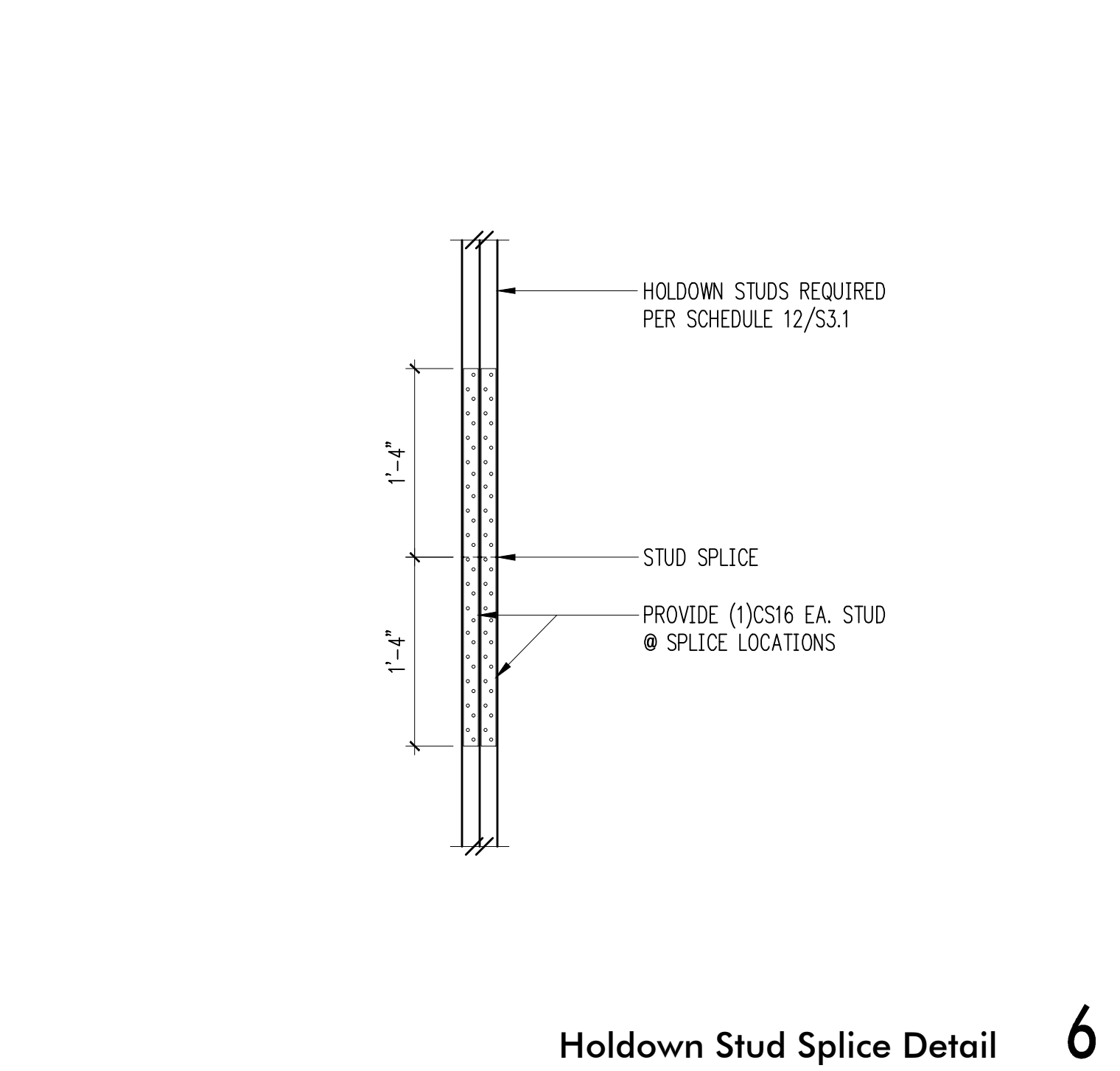
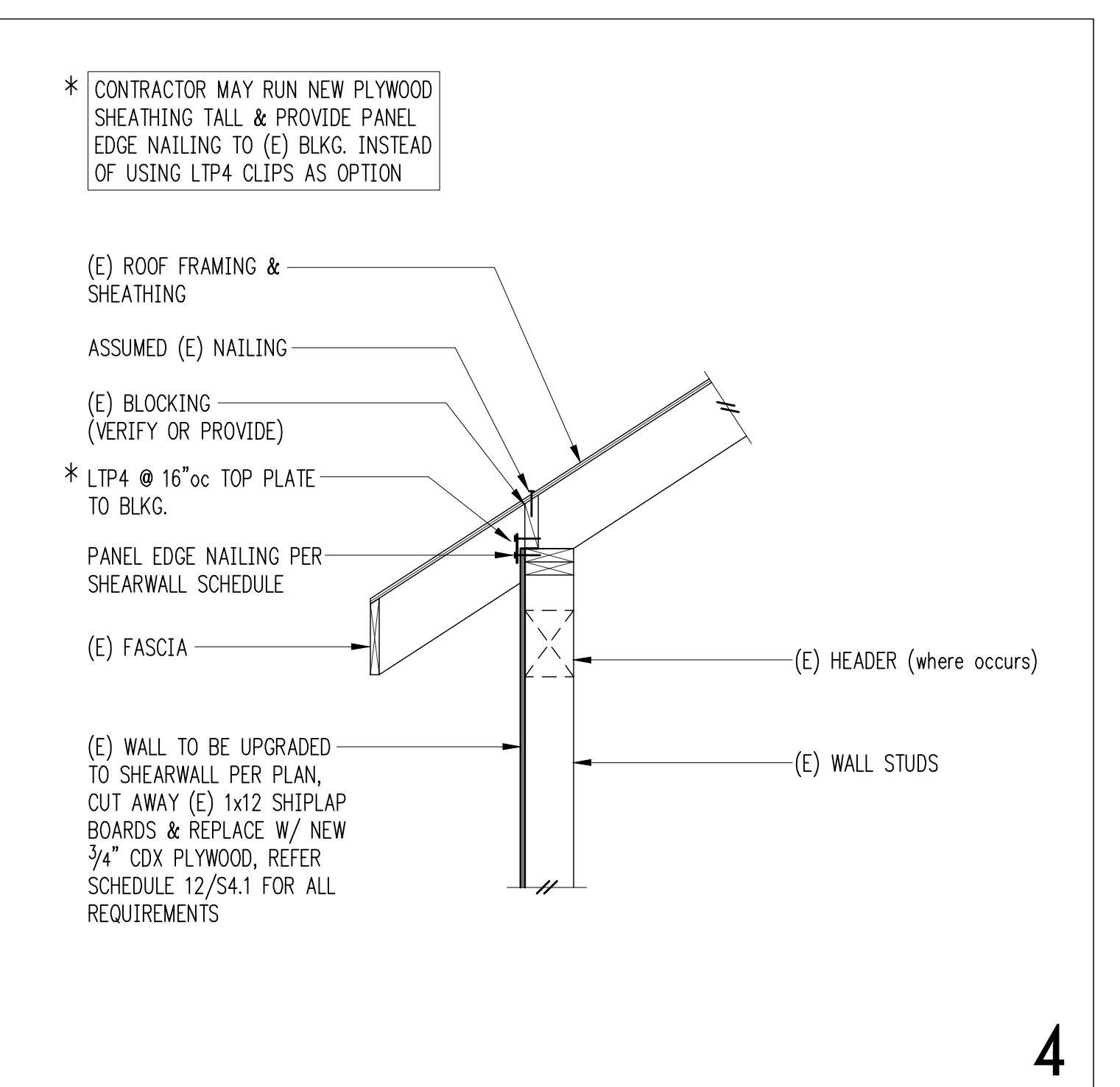
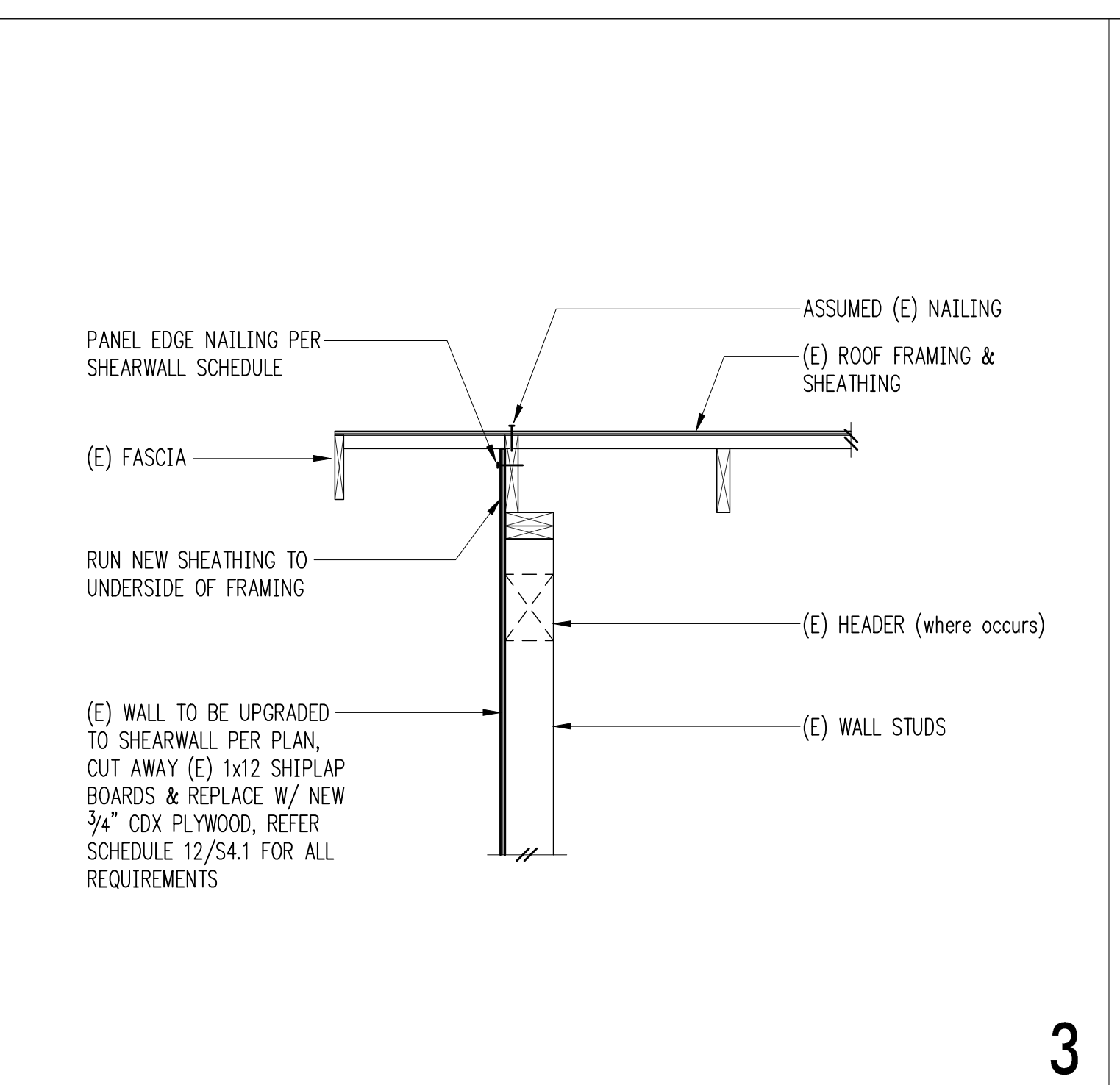
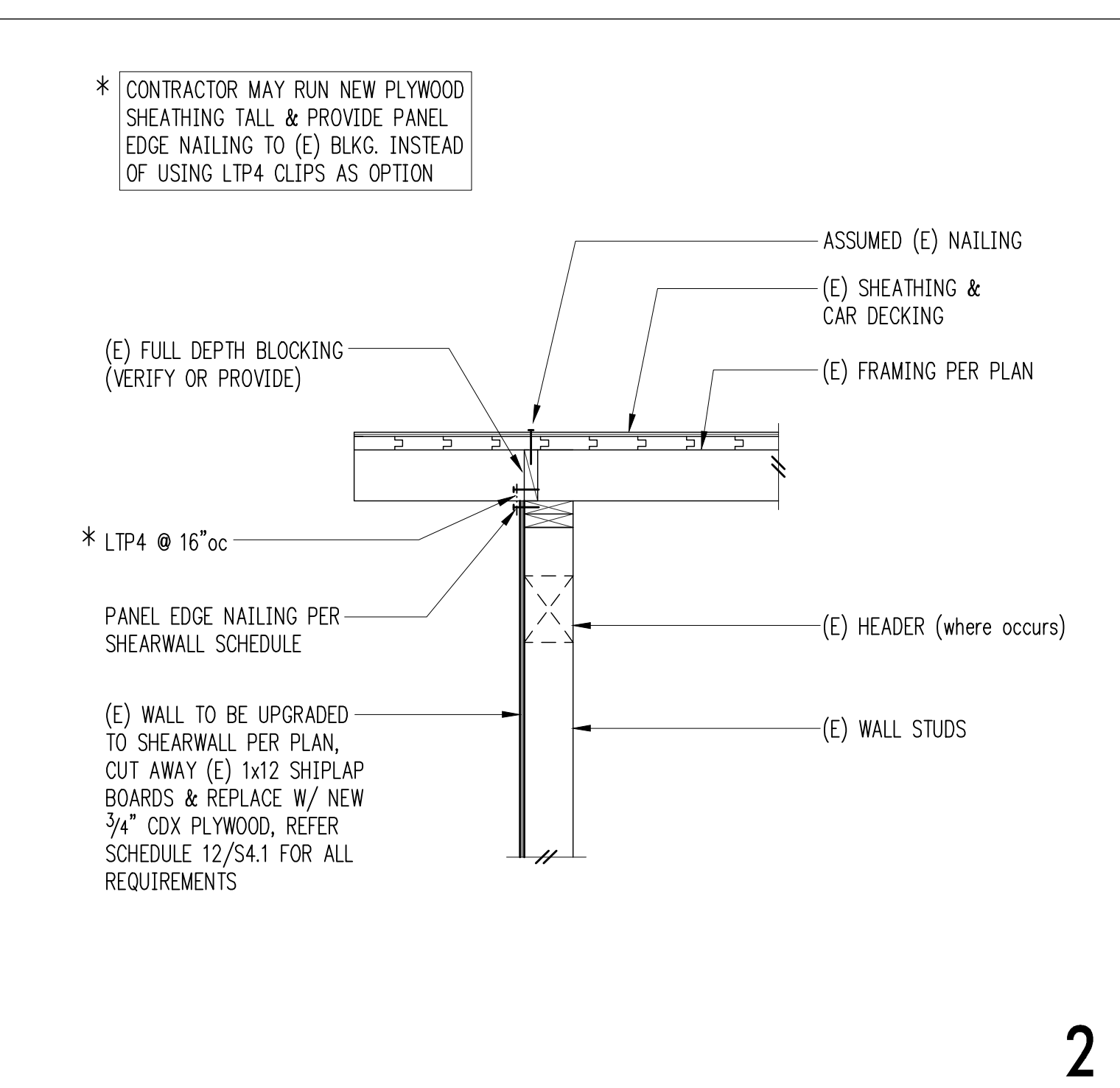
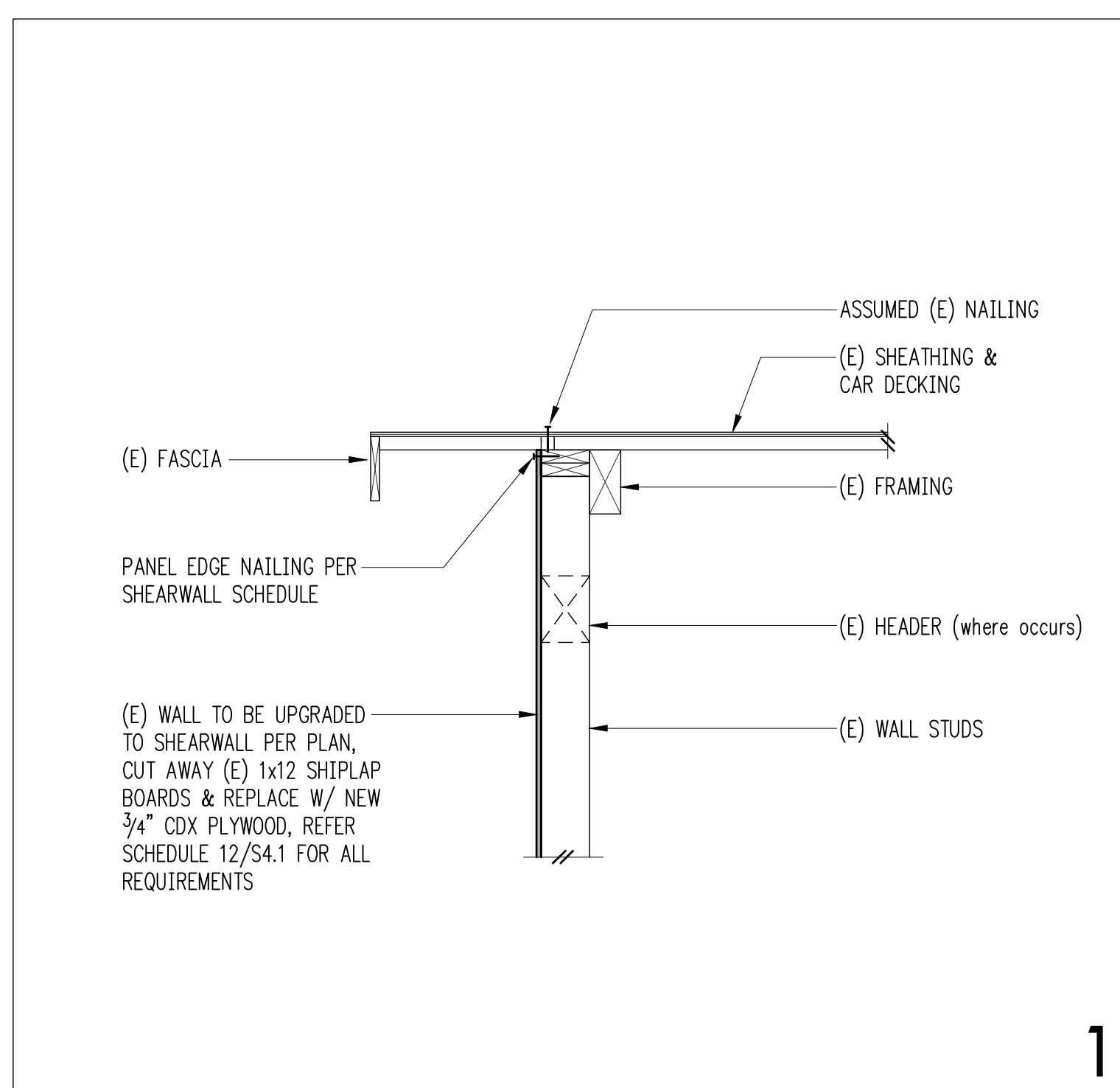
ARCHITECT:
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ISSUE:
Construction Set

SHEET TITLE:
Wood Framing Details

SCALE:
3/4" = 1'-0" U.N.O.
DATE:
July 08, 2011
PROJECT NO:
1753-2011-01-00
SHEET NO:

S4.1
NO. OF SHEETS:



Shearwall Schedule ①②③④⑤

Mark	Sheathing	Panel Edge Nailing	Top Plate Connection	Base Plate Connection		Sill Plate Connection
				at Wood	at Concrete	
W6	3/4" CDX PLYWOOD	8d @ 6"oc	A35 @ 24"oc	16d @ 6"oc	1/2" EXP. BOLTS. @ 48"oc	UFP @ 48"oc
W4	3/4" CDX PLYWOOD	8d @ 4"oc	A35 @ 16"oc	16d @ 4"oc	1/2" EXP. BOLTS. @ 32"oc	UFP @ 32"oc
W3 ①	3/4" CDX PLYWOOD	8d @ 3"oc	A35 @ 12"oc	16d @ 3"oc ⑥	1/2" EXP. BOLTS. @ 12"oc	UFP @ 32"oc
W2 ②	3/4" CDX PLYWOOD	8d @ 2"oc	A35 @ 9"oc	(2)rows 16d @ 4 1/2"oc ⑦	1/2" EXP. BOLTS. @ 8"oc	UFP @ 24"oc

① BLOCK ALL PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12"oc.
 ② 8d NAILS SHALL BE 0.131"Ø x 2 1/2" (common) - 16d NAILS SHALL BE 0.135"Ø x 3 1/2" (box)
 ③ DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2. SEE DETAIL A.
 ④ TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SHEARWALLS AND ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING.
 ⑤ 3/4" O.S.B. MAY BE SUBSTITUTED FOR 3/4" CDX.
 ⑥ STAGGER NAILS IN ROW W/ 1/2" MIN. OFFSET.
 ⑦ MINIMUM OFFSET BETWEEN ROWS 1/2", AND MINIMUM RIM OR JOIST 3/2" WIDE.

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