**ASCE 7-16** 

SEAW Rapid Solutions Methodology for Wind Design

#### **DESIGN LOADS**

Wind Design ANALYSIS PROCEDURE SEAW RAPID SOLUTIONS METHODOLOGY for WIND DESIGN **BUILDING CATEGORY = 1** WIND SPEED = 85 MPH EXPOSURE = 'B' TOPOGRAPHIC FACTOR Kzt = 1.3

**Building Design Loads** SNOW LOAD = 25 SPF ROOF (DL) = 15 PSF, (LL) 25 PSFFLOOR (DL) = 12 PSF, (LL) = 40 PSFEXTERIOR WALL (DL) = 15 PSF INTERIOR WALL = 7.5 PSF

#### Seismic Design

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

#### **Geotechnical Parameters**

SEE SOILS REPORT BY NELSON GEOTECHNICAL ASSOCIATES, INC. **DATED: MARCH 10, 2020** 

ALLOWABLE SOIL BEARING PRESSURE = 2500 pcf ACTIVE SOIL BEARING PRESSURE FOR YIELDING WALLS = 40 pcf ACTIVE SOIL BEARING PRESSURE FOR NON-YIELDING WALLS = 60 pcf PASSIVE SOIL BEARING PRESSURE = 200 pcf SAFETY FACTOR = 1.5 **COEFFICIENT OF FRICTION = .35** SOIL WEIGHT = 130 pcf

**Seismic Considerations** SITE CLASS D **OCCUPANCY CATAGORY = 1 IMPORTANCE FACTOR = 1** 

 $S_S = 1.378 g$  $S_1 = .531$  $F_a = 1.0$  $F_{V} = 1.5$  $S_{ms} = F_{a*}S_S = 1*1.28 = 1.37$  $S_{m1} = F_V * S_1 = 1.5 * .5 = .79$  $S_{DS} = S_{MS}^*.67 = 1.28^*.67 = .919$  $S_{D1} = S_{M1}^*.67 = .75^*.67 = .531$ 

SEISMIC RESISTING SYSTEM, NORTH-SOUTH: WOOD PANEL SHEAR WALLS, R-6.5 SEISMIC RESISTING SYSTEM, EAST-WEST: WOOD PANEL SHEAR WALLS, R=6.5

#### SHEAR WALL NOTES - WALLS

PX-X INDICATES SHEAR WALL. SEE LEGEND. SEE SHEAR WALL SCHEDULE FOR SHEAR WALL NOTES, ANCHOR BOLT PLACEMENT, PRESSURE TREATED SILL SIZES, AND INSTALLATION DETAILS. NOTIFY ENGINEER OF ANY REVISIONS TO SHEAR WALL OR FIELD MODIFICATIONS DUE TO

UNFORESEEN CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION. DIAPHRAGM SHEATHING NAILS SHALL BE DRIVEN

SO THAT THEIR HEAD OR CROWN IS FLUSH WITH THE SURFACE OF THE SHEATHING.

THE FASTENERS USED IN THE SHEAR WALL DESIGN ARE 10d COMMONS OR 10d GALVANIZED **BOX NAILS. ANY FASTENER SUBSTITUTION WILL** HAVE TO BE REVIEWED BY ENGINEER PRIOR TO CONSTRUCTION.

SOLID BLOCK BELOW SHEAR WALLS ABOVE.

■ INDICATES SHEAR WALL TIE DOWN STRAP BETWEEN THE SHEAR WALL ABOVE AND THE FRAMING ABOVE OR THE WALLS BELOW.

#### **Shear Wall Notes - Foundation**

( ) indicates 'Simpson' holdown location( see manufacturer's installation requirements). Holdown anchors are to be installed at the end of plywood shear panels.

See Shear Wall Schedule for shear wall notes, schedules, anchor bolt placement, and pressure treated sill sizes.

All shear wall panels other than P1-6" are to be installed with pressure treated 3X sills.

All holdown 4X or 6X posts to be Doug fir #2 or better.

Anchor bolts to be minimum 5/8"d. X 10" @ 48" o.c. (unless noted otherwise in Anchor Bolt Sheaar Wall Schedule, Sheet #S-1).

Concrete strength f'c = 3000 psi for concrete exposed to the elements. Concrete strength f"c = 2500 psi for concrete not exposed to elements.

Notify engineer of any revisions to shear wall or holdown plan or field modifications due to unforeseen conditions before proceeding with construction.

Increase depth of foundation at holdown anchor bolts to insure proper concrete coverage.

Simpson Strong Tie connectors are specifically required to meet the structural calculations of this plan. Before substituting another brand, confirm load capacity based on reliable published testing data of calculations. The Engineer of Record should evaluate and give approval for substitution prior to installation.

EXTERIOR DECK (DL) = 15 PSF, (LL) = 65 PSF CORRIDORS, STAIRS, EXITS (DL) = 12 PSF, (LL) = 100 PSF

#### MATERIAL SPECIFICATIONS

#### Prefabricated Floor Trusses/Floor Joists (if required)

> Submit to engineer of record complete shop drawings and calculations stamped by a Washington State registered professional engineer for approval prior to fabrication. > Provide for all temporary and permanent truss and joist bracing and bridging (per manufacturer's recommendations). > Store and erect trusses in accordance with the manufacturer's details and installation recommendations.

engineer of record prior to installation. > Plywood to be glue nailed to top flange of prefab floor joist or

> Substitution in prefabricated assemblies to be approved by

> Provide additional web reinforcing at TJI joists at or over

Floor Loads (See loading table above)

#### Wood Notes

> New exterior walls to be framed with 2 x 4 or 2 X 6 studs @ 16" O.C. (unless noted otherwise). > New interior walls to be framed with 2 x 4 studs @ 16" o.c.

(unless noted otherwise). > All frame nailing shall be in accordance with Table No. 2304.9.1, 2015 IBC

> When a girder is spliced over a support, an adequate tie shall be > Provide solid blocking over all supports.

> Provide fire blocking within framing cavity at 10'-0"vertically and horizontally). Fire stop openings around vents, pipes, ducts, chimneys, etc. with non-combustible materials.

> Framing anchors shall be provided to support joists which frame into the side of a wood girder or framing band. > Wood members shall have sufficient bearing area based on allowable values for compression perpendicular to grain per 2001

> Provide double joists under all interior bearing walls. > Where boring through studs is required for plumbing or electrical wiring in bearing walls use 2 X 6 or double 2 X 4 studs. > All joists, studs, blocking, bracing, and rafters shall be Hem Fir #2 or better; Fb = 850 psi ( 1000 psi repetitive), Fv = 75 psiE = 1,300,000

> All sawn beams, headers, posts, lintels, and girders which are 4" nominal width shall be Doug-Fir Larch #2 or better; Fb = 850 psi, Fv = 95 psi, E = 1,600,000.

> All sawn beams, headers, posts, lintels, and girders which are 6" nominal width shall be Doug-Fir Larch #1 or better: Fb = 850 psi, Fv = 85 psi, E = 1,600,000.> All glue-laminated timbers to be kiln dried Doug-Fir top and

bottom (24 F-V-4) for simple span beams; (24 F-V8) for multiple span or cantilever beams. Fb = 2400 psi, Fv = 165 psi, E = 1.800.000.

> All framing lumber shall be kiln dried to a maximum 19% moisture content prior to installation.

> Steel framing accessories and structural fasteners shall be as manufactured by Simpson Company (or approved equal). Connectors shall be installed in accordance with manufacturer's recommendations. Provide all plan designated manufacturer's

> Simpson Strong Tie connectors are specifically required to meet the structural calculations of this plan. Before substituting another brand, confirm load capacity based on reliable published testing data of calculations. The Engineer of Record should evaluate and give approval for substitution prior to installation.

#### Holdowns

> Holdowns to be by Simpson Company or equal. Any substitutions in hardware manufacturer must be approved by the Engineer of Record prior to installation.

Plywood Notes

> All plywood shall be installed per American Plywood Association standards.

> All plywood shall be A.P.A rated C-D Struct 1(min.). > All panel edges to occur with long edges over wood supports, short edges to be blocked.

> All roof plywood to be ½" thick with span rating 24/0. > Nail panels with 10d common nails at 12" o.c. in the field, 6" o.c. at all panel edges. Nail at 4" o.c. to all exterior walls and other

shear walls. > All floor plywood to be min 3/2" thick with span rating 32/16. > Nail panels with 10d. galv. nails at 6" o.c. at panel edges, 12"

o.c. in the field. See Shear wall schedule for nailing patterns shear

> At floor sub-floor glue floor plywood to floor joists with an approved elastomeric adhesive suitable for use in wet weather. > See shear wall schedule and notes for wall plywood and nailing

> All plywood at waterproof decks to be pressure treated. > Plywood floor and roof sheathing shall be laid up with face grain perpendicular to supports.

> All floor plywood shall be glue nailed to supporting joist in accordance with the American Plywood Association. Glue shall meet the requirements of Adhesive Specification AFG-01.

#### Concrete/Foundation Notes

> Foundation design is in accordance with chapter 19 of the 2015 IBC All work shall be performed in accordance with all current building and safety codes.

> Concrete strengths shall be verified by standard 28-day cylinder tests, unless approved otherwise.

> Anchor bolts to be 5/8"diameter with 10" embedment @ 48" o.c. (see shear wall schedule for anchor bolt size and spacing at other than P1-6" shearwalls). All anchor bolts to be ASTM A-307.

> ALLOWABLE SOIL BEARING PRESSURE = 15000 PSF > Backfill behind unbraced retaining walls prior to attaching floor

> Exterior footings to be entrenched a minimum of 18" below existing grade and bear on firm undisturbed soil. > All reinforcing bars to be Grade 60 deformed bars. The tie wire is to be 16 Ga. double annealed wire. Lap all reinforcing 36 diameters. At corners of walls extend horizontal bars 2" from outside face of wall and lap with elbow bars of 30 diameters at the

openings. Provide footing dowels to match vertical reinforcing. Concrete cover

concrete poured against earth formed concrete with earth backfill 1 1/2" outside face of walls exposed to weather, slabs on a moisture barrier walls, outside face

same size and spacing. Provide 2-#5 bars around all wall

> Provide 4"diameter perforated PVC drain in granular fill at the base of all new exterior footings (existing and new).

#### Concrete mix

Mix design shall be in conformance with ACI-318-99. Submit mix designs to engineer of record 2 weeks prior to placement indicating where each concrete mix is used and the maximum aggregate size.

max.water/cem.ratio min. fc type non-air ent. air ent. sks/cu.yd. .42 6

found.walls 2500

slab on grade 3000 .65

> Water reducing mixtures may be incorporated into the mix designs in accordance with ASTM C 494 and manufacturer's recommendations.

>Water/Cement ratio shall be measured by weight and shall be based on the total cementious material. Water/Cement ration shall be determined by the supplier based on the strength requirements and shall no exceed the maximum water/cement ratio shown above.

#### **General Conditions**

> Contractor will call for inspection prior to placing any footing and foundation wall concrete.

> Provide rigid insulation around the perimeter of all slabs within heated spaces.

> Permanent cut and fill slopes should not exceed

2:1 (H:V). > All reinforcing shall be detailed in accordance with ACI detailers manual.

> All excavations shall be adequately barricaded and marked. All work area and surfaces shall be cleaned upon completion of the project. All debris and waste materials shall be removed off the site to an approved disposal area by the contractor. -Use air -entrained (3%-6%) in all flat work exposed to weather.-Master flow 928 or equal.

> Provide minimum of 1/2" air space between non-pressure treated wood and concrete, or provide waterproofing membrane between concrete and non-pressure treated wood.

> Top of concrete to be field verified by contractor.

> Contractor to field verify existing grade cut and soil conditions with before proceeding with concrete retaining wall forming and reinforcing steel placement.

> Contractor shall be responsible for all safety precautions and the methods, techniques, sequences or procedures required to perform the work.

>In the case of discrepancies between the drawings and the anticipated field conditions the contractor shall notify the architect before proceeding with construction.

>DO NOT SCALE the architects or engineer's drawings - noted dimensions take precedence over scaled dimensions.

#### **Fasteners**

Fasteners for pressure treated wood must be ZMAX hot dipped galvanized (G185) or stainless steel.

#### Prefabricated Roof Trusses (if required)

> Submit complete shop drawings and calculations stamped by a Washington State registered professional engineer for approval prior to fabrication.

> Design for the spans and conditions shown on plans.

> Deflections under total loads not to exceed L/360.

SHEAR WALL SCHEDULE - 2015 IBC

WALL SHEATHING TO BE 1/2" (C-D) STRUCTURAL 1, 24/0

ROOF SHEATHING TO BE 1/2" (C-D) STRUCTURAL 1, 32/16

ALL FRAMING MEMBERS TO BE MAXIMUM 19% MOISTURE CONTENT

PANEL NAIL SPACING

EDGES STUDS PLATES

1. P-1 INDICATES PLYWOOD ON ONE SIDE OF SHEAR WALL ONLY.

6. SOLID BLOCK ALL PANEL EDGES WITH FULL DEPTH BLOCKING. 7. USE 10d. COMMON NAILS FOR SHEAR WALL FASTENERS.

8. NAILS MUST BE FLUSH DRIVEN WITH THE DIAPHRAGM SURFACE.

9. ANCHOR BOLTS TO HAVE A MINIMUM 3"X3"X1/4" PLATE WASHERS.

5. FOR NAILING AT 4",3",2" ON CENTER USE P.T. 3X SILL AT FOUNDATION.

10. FINGER JOINTED STUDS ARE NOT TO BE USED AT HOLDOWN LOCATIONS

13. DO NOT INSTALL FLOOR DIAPHRAGM NAILING OVER BOTTOM SILL NAILING.

OFFSET PANEL JOINTS TO FALL ON DIFFERENT STUDS.

STAGGER FASTENERS AT ALL PANEL JOINTS.

COMMON(0.148X 3 1/4" LONG).

14. ALL STUDS TO BE 2X HEM-FIR OR BETTER.

2. P-2 INDICATES PLYWOOD ON TWO SIDES OF SHEAR WALL. FRAMING MEMBES SHALL BE 3X.

4. FOR NAILING AT 4", 3", 2" ON CENTER, USE 3X FRAMING MEMBERS AT ALL P. IEL EDGES.

SHALL CONSIST OF TWO ROWS IN EACH MEMBER OFFSET 1/2" AND STAGGERED.

3. PLYWOOD MAY BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY ON I M-FIR, OR DOUG FIR

11. NAILS FOR PANEL EDGES SHALL BE 10d COMMON(0.148 X 3" LONG). NAILS FOR PLATES SHALL BE 12d

12. WHERE BOTTOM PLATE NAILING REQUIRES (4) NAILS AT A SPECIFIC SPACING, BLOCK FLOOR SPACE

BELOW THE SOLE PLATE CONSISTING OF A MINIMUM OF TWO FRAMING MEMBERS. NAILING PATTERN

PANEL FIELD TOP/BTM BLK'G

2X6(4) 5/8"Ø @ 48" 16d @ 6" 262(HF), 320(DF)

3X6(4) 5/8"Ø @ 32" (2) 16d @ 8" 348(HF), 425(DF)

3X6(4) 5/8"Ø @ 24" (2) 16d @ 6" 525(HF), 640(DF)

3X6(4) 3/4"Ø @ 24" (2) 16d @ 5" 599(HF), 730(DF)

3X6(4) 3/4"Ø @ 16" (4) 16d @ 6" 1050(HF),1280(DF)

USE 10d COMMON NAILS (.148"Ø X 3" LONG)

**Shear Wall Notes** 

> Provide for all temporary and permanent truss bracing and

> Store and erect trusses in accordance with the manufacturer's recommendations.

Roof Dead Load = (15 psf) Live Load = (25 psf)Bottom chord Dead Load = 7 psf Top Chord uplift = 7 psf

#### STRUCTURAL STEEL/WELDING

STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 22 OF THE 2015 IBC SUBSTITUTION OF MEMBER SIZES OR STEEL GRADE WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER OF

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES REQUIRED ROOT OPENINGS, ROOF FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, SCOPES, SURFACE ROUGHNESS VALUES AND UNEQUAL PARTS. EXPANSION BOLTS SHALL BE ICBO APPROVED AND INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS. UNLESS OTHERWISE SPECIFIED ON DRAWINGS OR DETAILS. SIZE AND EMBEDMENT DEPTHS SHALL BE APPROVED THE THE ENGINEER OF RECORD.

STRUCTURAL STEEL ATM A 992GRADE50 CONNECTION MATERIAL. ASTM A 36 EMBEDDED ITEMS CHANNELS, ANGLES, BASE PLATES STRUCTURAL TUBES ASTM A 500, GRADE B STRUCTURAL BOLTS ASTM A 325-N WOOD CONNECTION BOLTS ASTM A 307 ANCHOR BOLTS ASTM A 307 THREADED RODS ASTM A 36

> BEAM CAMBER NOTED ON DRAWINGS IS THE UPWARD CAMBER REQUIRED IN THE BEAM AS DELIVERED TO THE JOB SITE. THE CONTRACTOR SHALL CONSIDER CAMBER LOSS DUE TO SHIPPING AND HANDLING.

WELDING ELECTRODES 70ksi, LOW HYDROGEN

STRUCTURAL STEEL AND CONNECTIONS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN COMPLIANCE WITH ASTM A 123. ALL FIELD WELDS ON GALVANIZED MATERIAL SHALL BE COATED WITH BRUSH APPLIED ZINC-RICH PAINT COMPLYING WITH ASTM A 780 (GALVACON OR EQUIVALENT).



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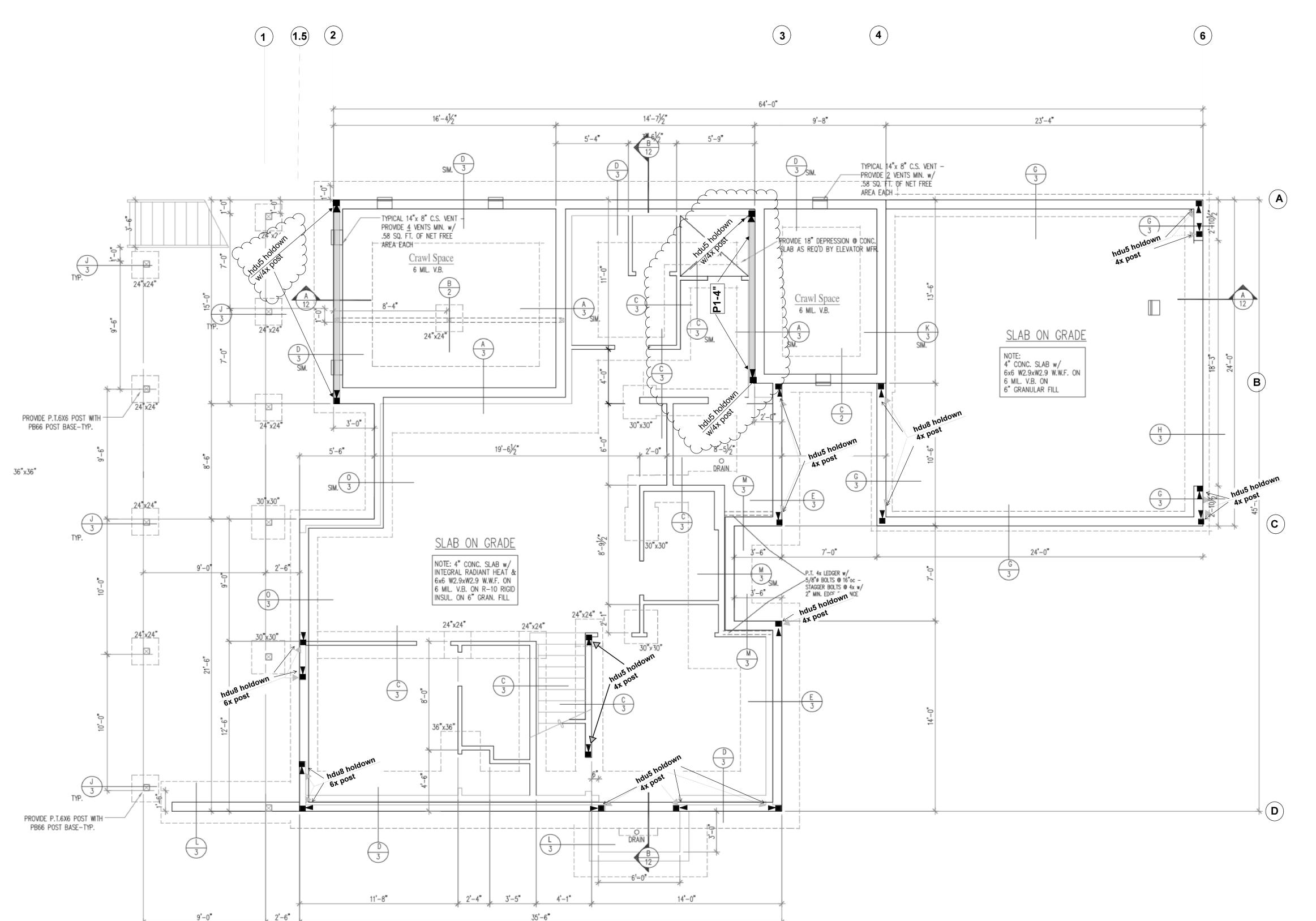
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#### **SHEAR WALL NOTES - FOUNDATION**

INDICATES 'SIMPSON' HOLDOWN LOCATION (SEE

MANUFACTURER'S INSTALLATION REQUIREMENTS).
HOLDOWN ANCHORS ARE TO BE INSTALLED AT THE END OF
PLYWOOD SHEAR WALL PANELS.

SEE SHEAR WALL SCHEDULE FOR SHEAR WALL NOTES,
SCHEDULES, ANCHOR BOLT PLACEMENT, AND PRESSURE
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ALL SHEAR WALL PANELS OTHER THAN PL 6" ARE TO BE

ALL SHEAR WALL PANELS OTHER THAN P1-6" ARE TO BE INSTALLED WITH PRESSURE TREATED 3X SILLS.

ANCHOR BOLTS TO BE MINIMUM 5/8"Ø X 10" @ 48" O.C. (UNLESS NOTED OTHERWISE IN ANCHOR BOLT SCHEDULE, SHEET S-3).

CONCRETE STRENGTH F'C = 3000 PSI FOR CONCRETE EXPOSED TO THE ELEMENTS.

CONCRETE STRENGTH F"C = 2500 PSI FOR CONCRETE NOT EXPOSED TO ELEMENTS.

NOTIFY ENGINEER OF ANY REVISIONS TO SHEAR WALL OR HOLDOWN PLAN OR FIELD MODIFICATIONS DUE TO UNFORESEEN CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION.

INCREASE DEPTH OF FOUNDATION AT HOLDOWN ANCHOR BOLTS TO INSURE PROPER CONCRETE COVERAGE.

SIMPSON STRONG TIE CONNECTORS ARE SPECIFICALLY REQUIRED TO MEET THE STRUCTURAL CALCULATIONS OF THIS PLAN. BEFORE SUBSTITUTING ANOTHER BRAND, CONFIRM LOAD CAPACITY BASED ON RELIABLE PUBLISHED TESTING DATA OF CALCULATIONS. THE ENGINEER OF RECORD SHOULD EVALUATE AND GIVE APPROVAL FOR SUBSTITUTION PRIOR TO INSTALLATION.



Holdown Location Plan

revisions 4/6/21 6.16.21

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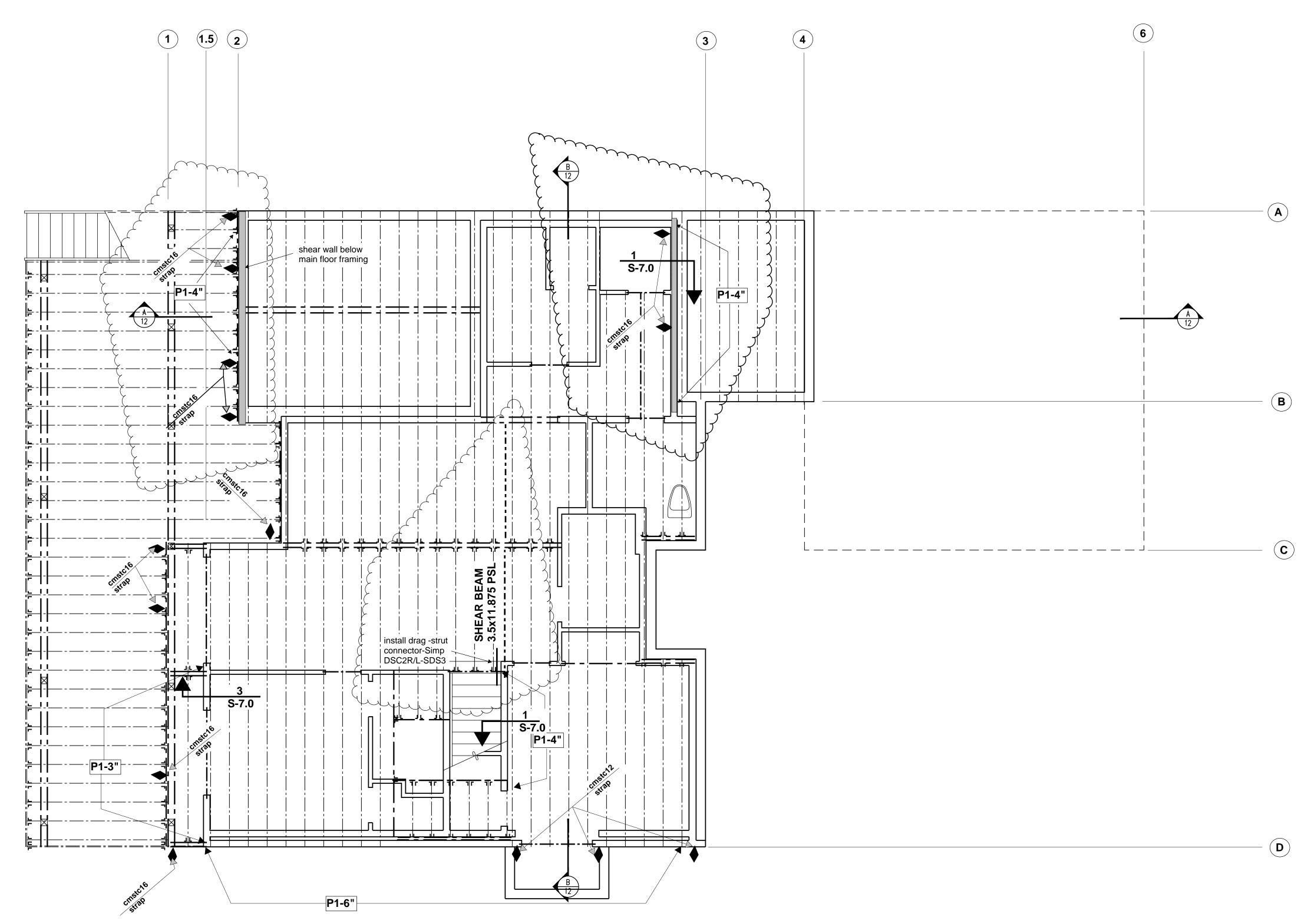
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### **SHEAR WALL NOTES - WALLS**

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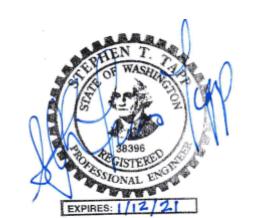
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#### SOLID BLOCK BELOW SHEAR WALLS ABOVE.

INDICATES SHEAR WALL TIE DOWN STRAP
BETWEEN THE SHEAR WALL ABOVE AND
THE FRAMING ABOVE OR THE WALLS
BELOW.

# Lower Floor Shear Wall Plan



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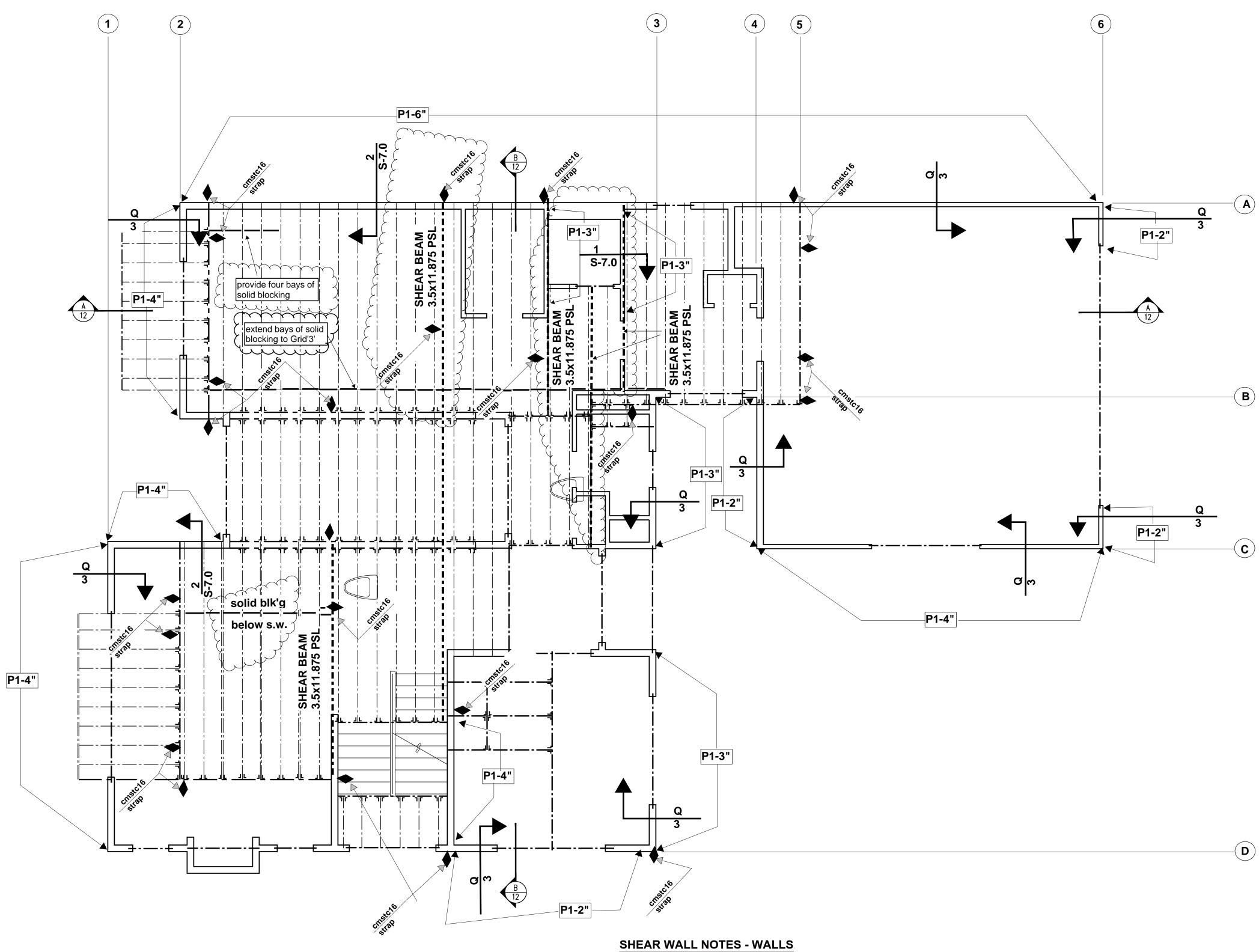
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Main Floor Shear Wall Plan

1/4" = 1'-0"

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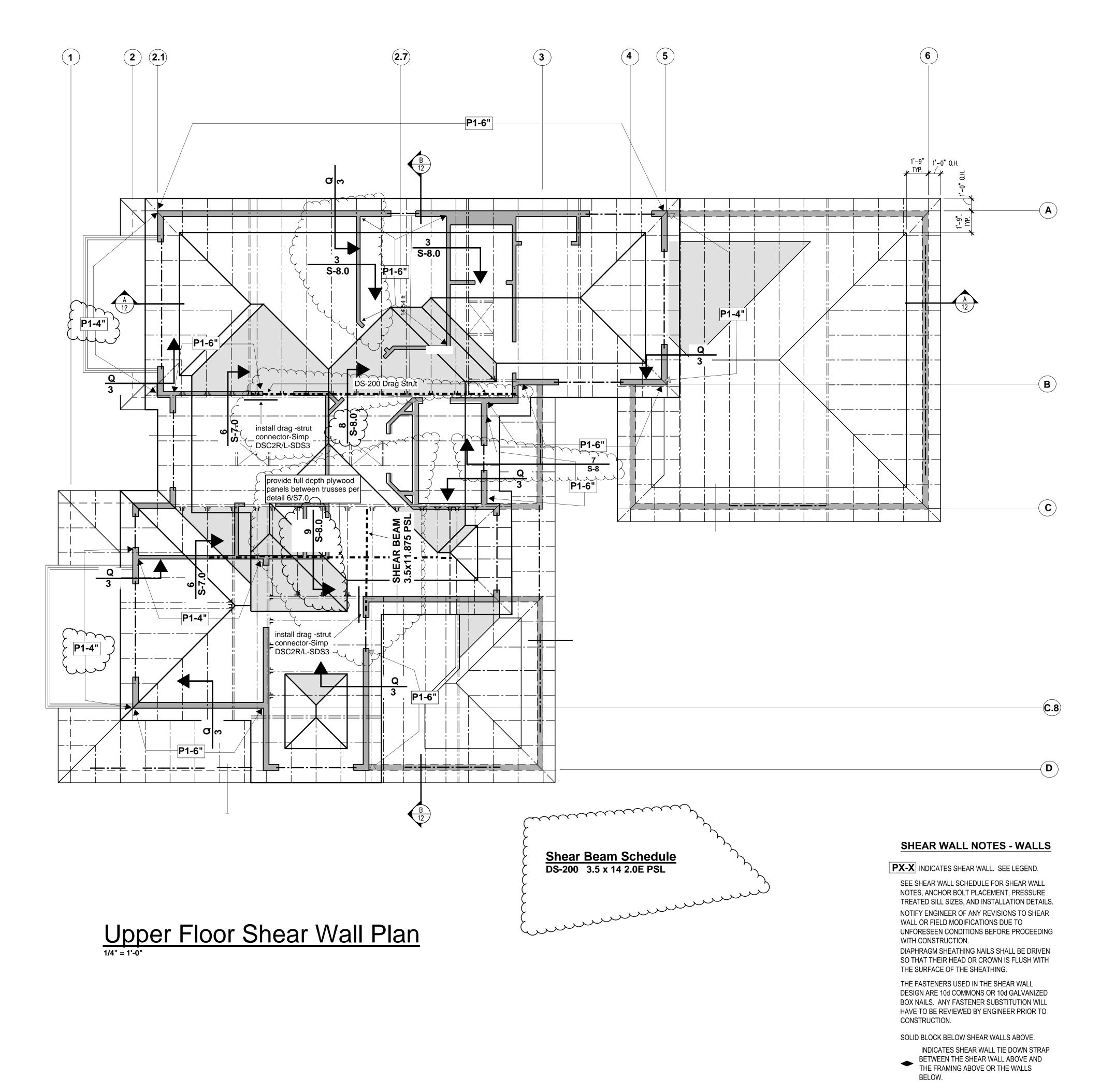
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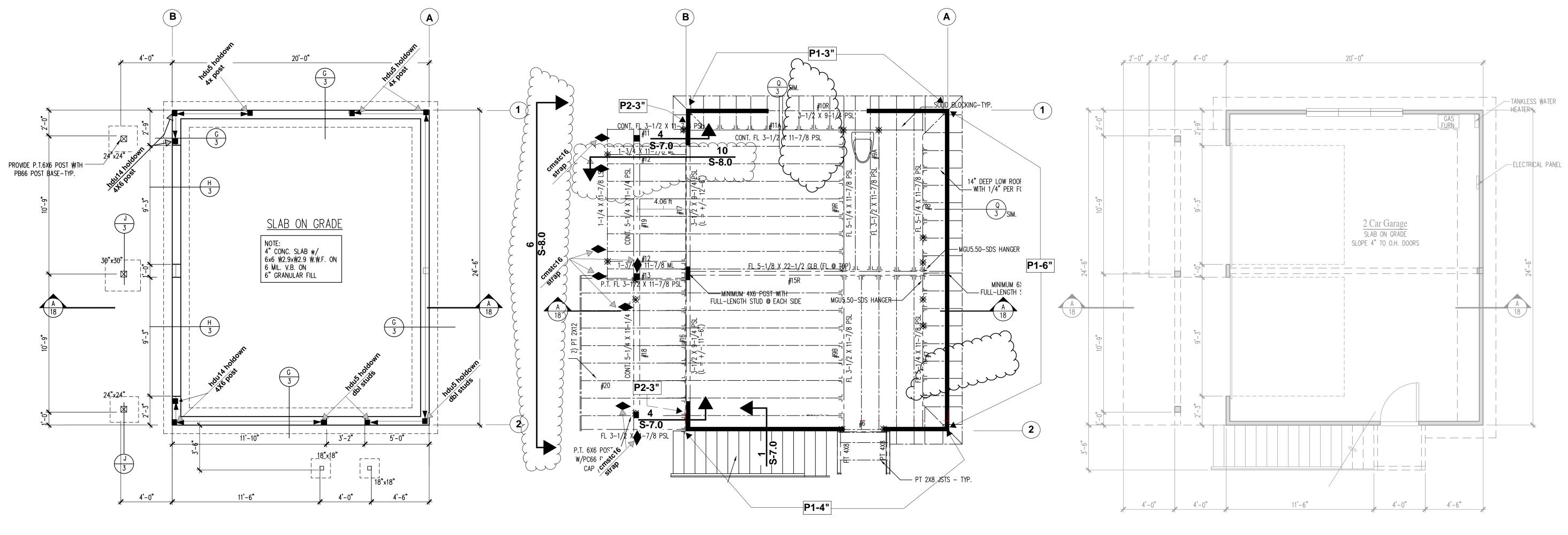
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## ADU-Foundation Plan

Holdown Anchor Schedule

holdown
HDU5

HDU14

PAB8

#### **SHEAR WALL NOTES - FOUNDATION**

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## SHEAR WALL NOTES - WALLS

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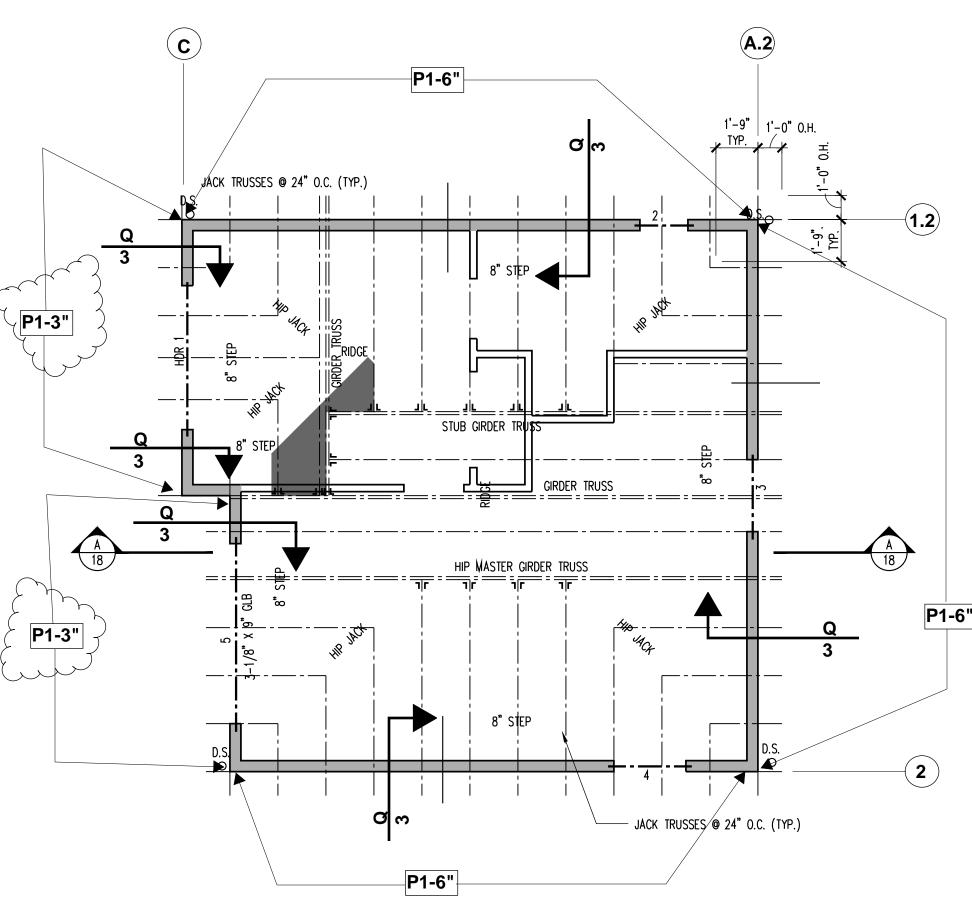
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# ADU Main Floor Shear Wall Plan

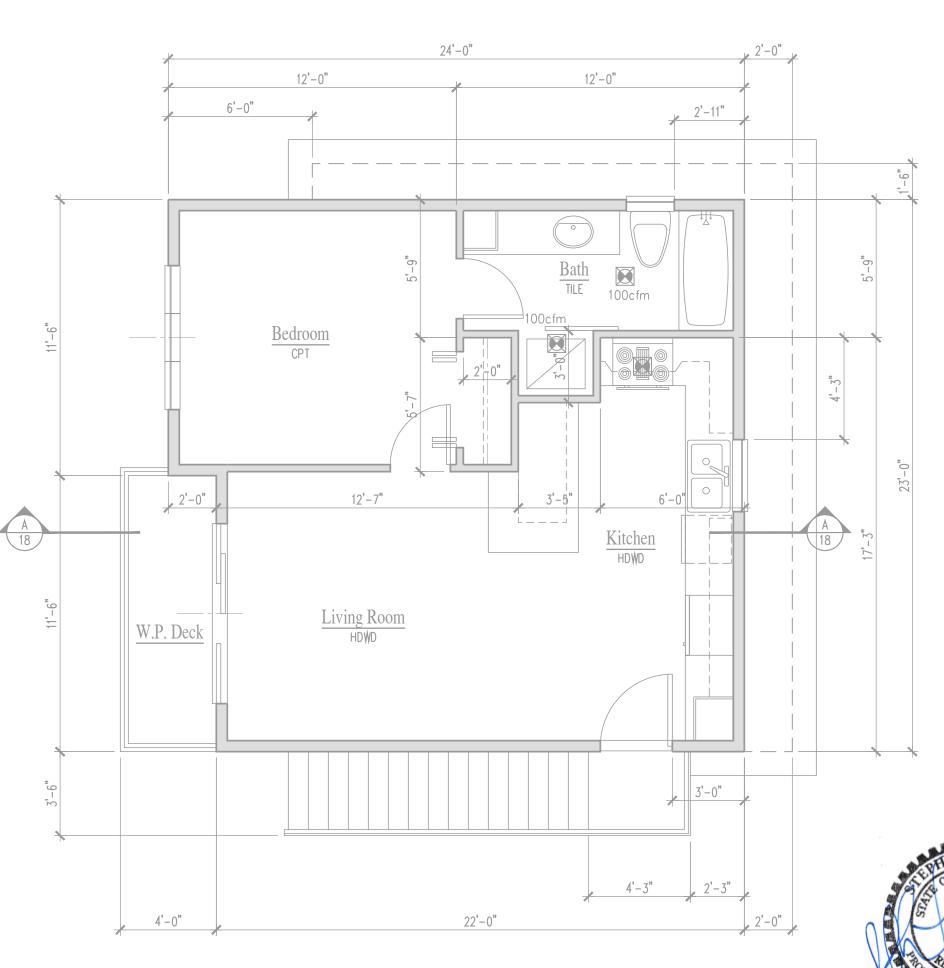


ADU Upper Floor Shear Wall Plan

# ADU-Garage Floor Plan

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

MAIN FLOOR AREA = 0000 S



ADU-Upper Floor Plan

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

UPPER FLOOR AREA = 0000 S.F.

as noted 5/13/20 T20D3

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Stephen Architect / Fachitect / Fachitect

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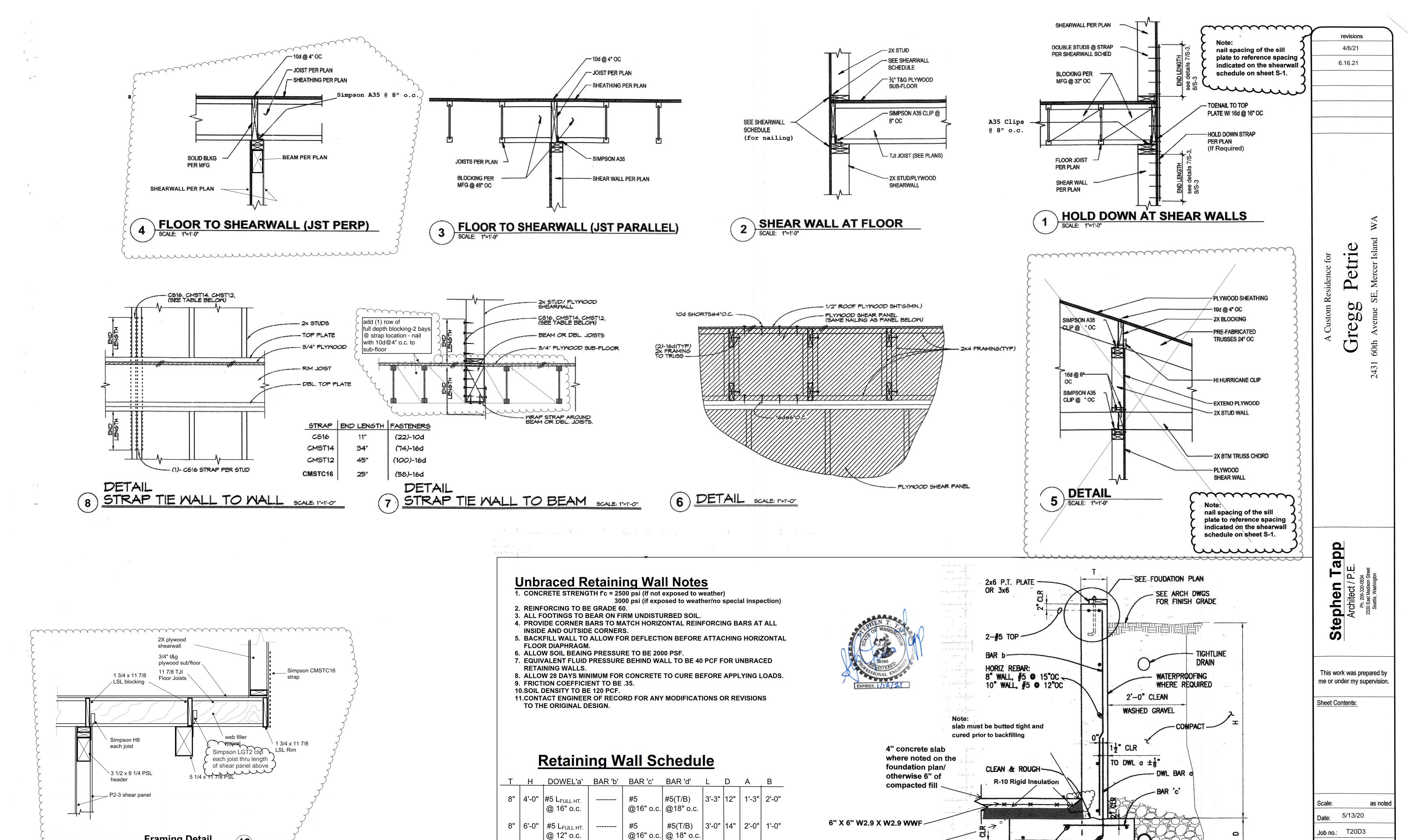
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#5(T/B) | 4'-0" | 14" | 2-6" | 1'-6"

| #5(T/B) | 4'-3" | 14" | 2'-0" | 2'-3"

@12" o.d. @16" o.c. @18"o.c.

@12"o.c| @16" o.c| @18" o.c.|

8" | 8'-0" | #5 L<sub>2'-10"</sub>

8" |10'-0" | #5L<sub>4'-3"</sub>

@6" o.c.

min 6" thick compacted

granular fill below or

rigid insulation

STT

S-7.0

Drawn by:

Sheet no.:

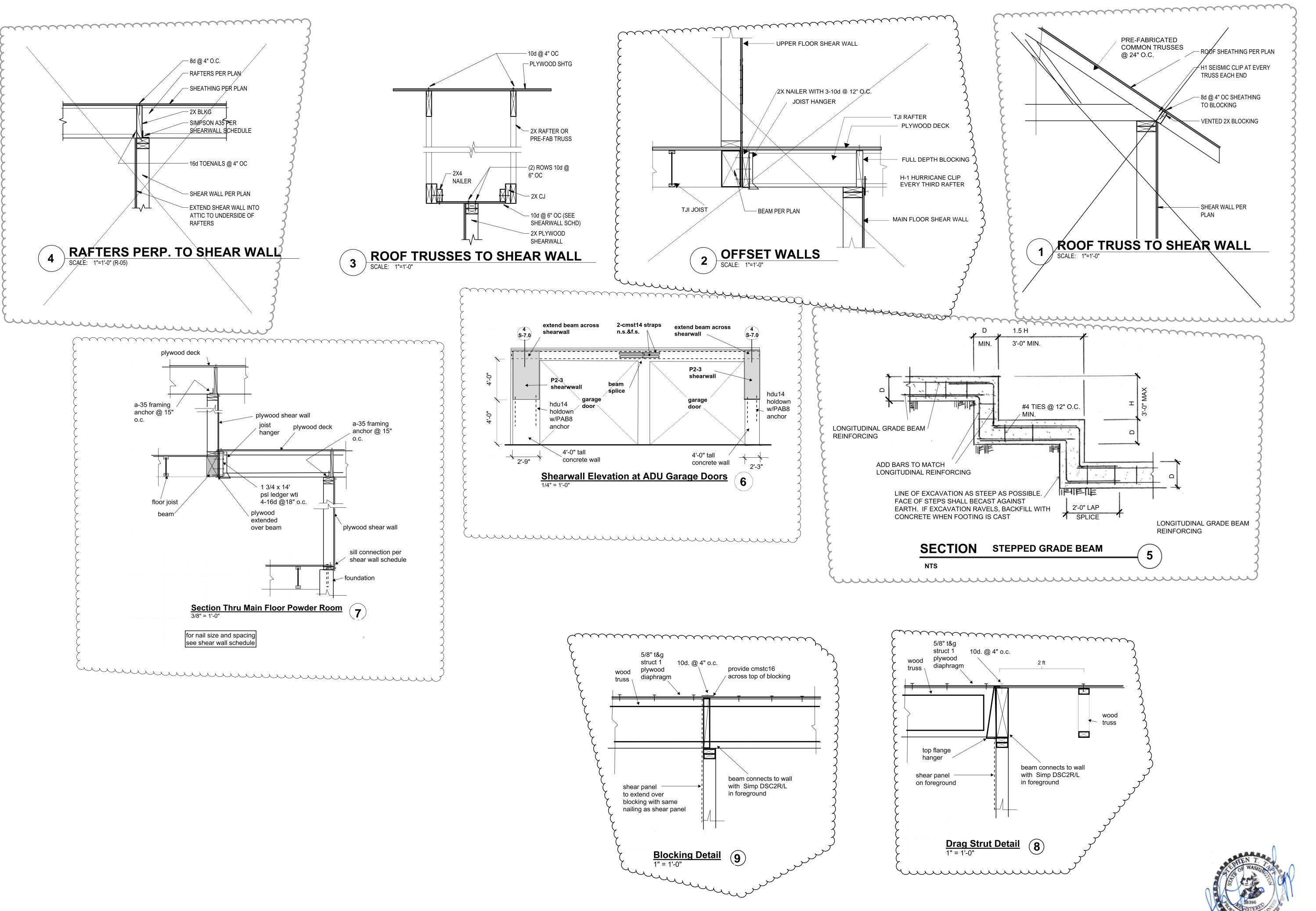
-4" CONT PERFORATED

**Concrete Retaining Wall Section** 

**(10)** 

Framing Detail
3/4" = 1'-0"

minimum in the second s



revisions
4/6/21
6.16.21

Custom Residence for regg Petrie

Stephen Tapp
Architect / P.E.
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2330 East Madison Street
Seattle Washington

This work was prepared by me or under my supervision.

Sheet Contents:

Scale: as noted

Date: 5/13/20

Job no.: T20D3

Drawn by:

Sheet no.:

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