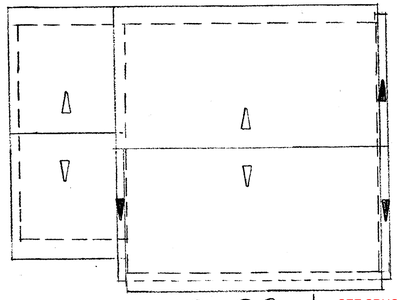
B-21-0712
CITY OF PUALLUP
DETACH GARAGE/LOFT

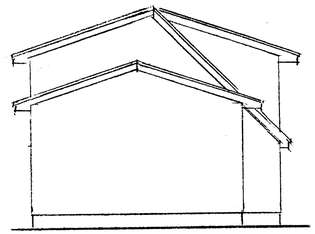


ROOF PLAN

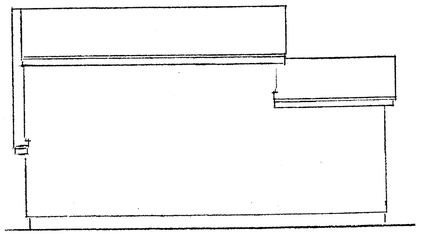
SEE SRUCTURAL
S2 OF 2 FOR ROOF PLAN

= 4:12 - 24"O.H.
= 12:12 - 12"O.H.

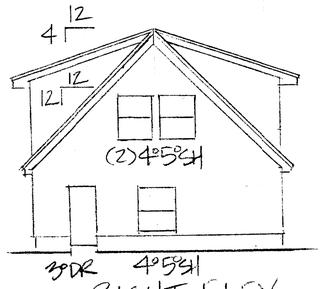
PROVIDE ROOF VENTING 1/150



LEFT ELEV



REAR ELEV



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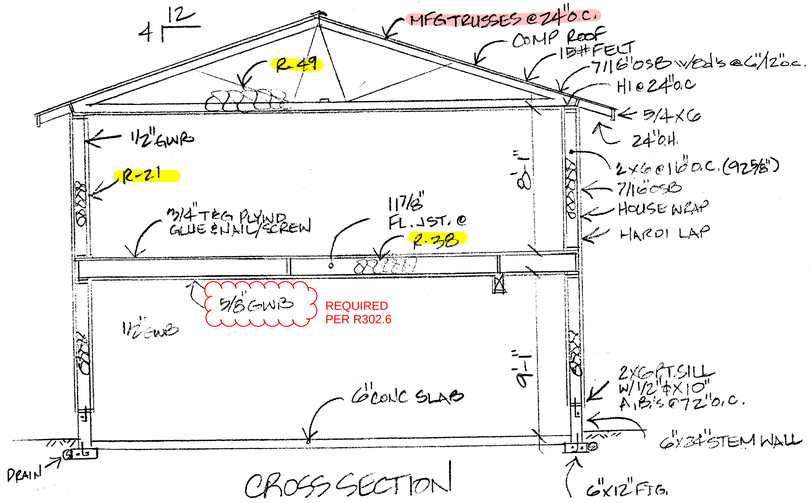
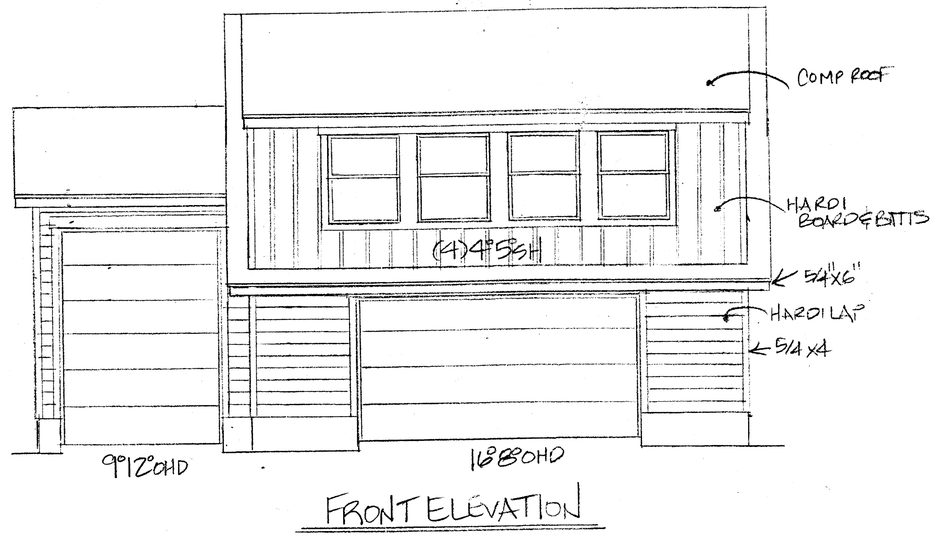


CROSS SECTION



FRONT ELEVATION

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

BUILDING, MECHANICAL & PLUMBING -

Reviewed for Compliance
Approved for Construction

By Janelle Montgomery ✔

B-21-0712

Date of Review 11/22/2021

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

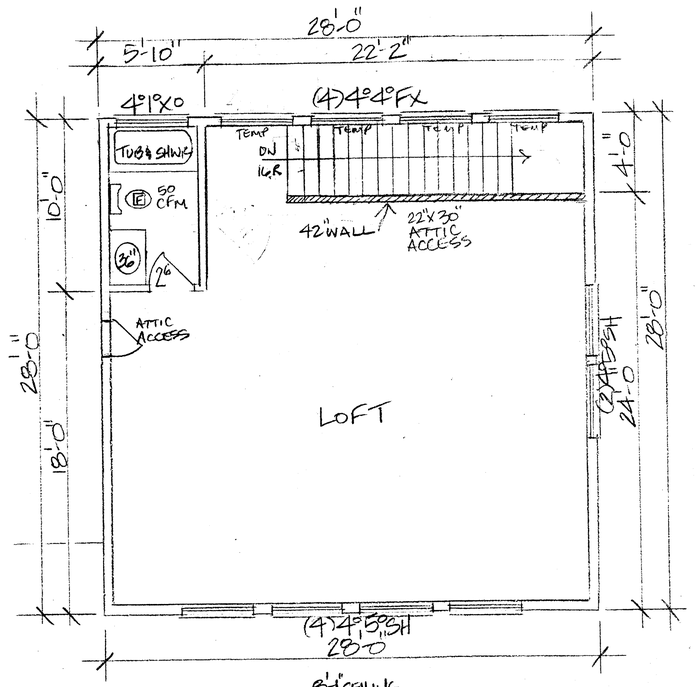
THE APPROVED CONSTRUCTION PLANS, DOCUMENTS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITEE ON SITE FOR INSPECTION

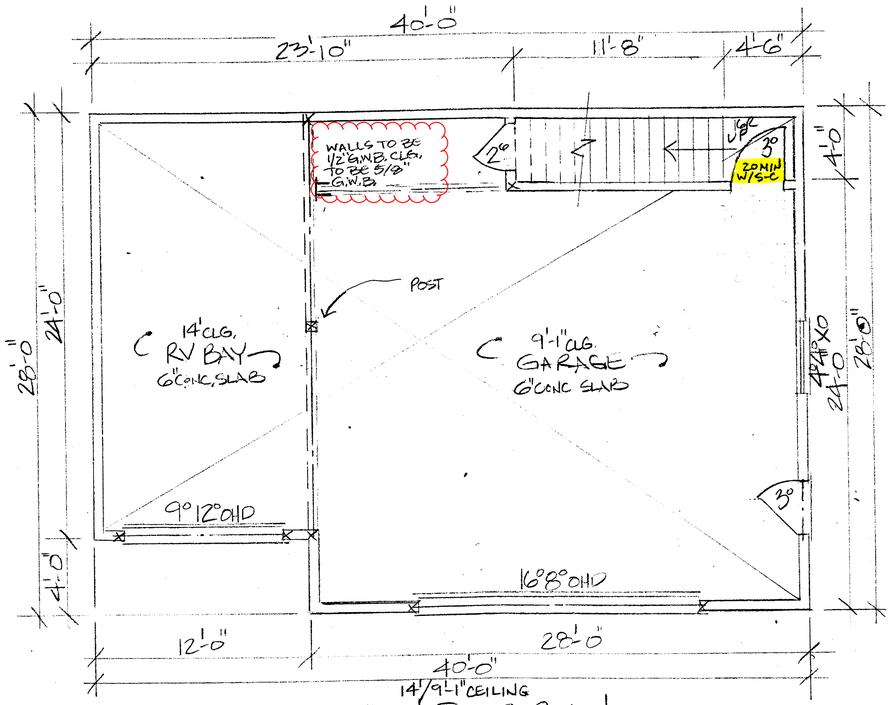
Design Drafting
Bruce G. Bennett 5745445

SCALE 1/4" 1/8"	1972 SQ. FT. 784 SQ. FT.
THE STROBL GARAGE	
1/2	40 X 28

B-21-0712
CITY OF PUALLUP



8'-1" CEILING
UPPER FLOOR PLAN
784 SQ FT.



14'/9'-1" CEILING
MAIN FLOOR PLAN
1072 SQ. FT.

FLOOR AREA
MAIN FLOOR 1072 SQ FT
UPPER FLOOR 784 SQ FT

SEE SHEETS S1-S2 FOR STRUCTURAL PLANS, NOTES AND DETAILS

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Design Drafting
Bruce G. Bennett 5745495

SCALE 1/4" 1/8"	1072 SQ. FT. 784 SQ. FT.
THE STROBL GARAGE	
2/2-	40X28

B-21-0712
CITY OF PUALLUP

City of Puyallup
Development & Permitting Services
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Fire | Traffic

STRUCTURAL NOTES

CONTRACTOR, OWNER, AND FRAMER ARE TO THOROUGHLY REVIEW THESE DOCUMENTS AND THEIR RELATIONSHIP TO THE ARCHITECTURAL PLANS. IF THERE ARE ANY QUESTIONS, OR DISCREPANCIES ABOUT THE NOTES, DETAILS, OR PLANS, CONTACT THE ENGINEER OF RECORD AT THOMPSON ENGINEERING (509) 987-1599.

These structural notes supplement the drawings. Any discrepancy found among the drawings, these notes, and the site conditions shall be reported to the Engineer, who shall correct such discrepancy in writing. Any work done by the Contractor after discovery of such discrepancy shall be done at the Contractor's risk. **The Contractor shall verify and coordinate the dimensions among all drawings prior to proceeding with any work or fabrication.** The Contractor is responsible for all bracing and shoring during construction. All construction shall conform to the applicable portions of the latest edition of the **2018 International Building Code** except where noted.

Construction Stability:

The design, adequacy and safety of erection bracing, shoring and all temporary supports is the sole responsibility of the Contractor, and has not been considered by the Engineer of Record. The Contractor shall provide the bracing necessary to provide stability to the structure prior to the completed application of the lateral resisting system. During construction, the Contractor shall keep loads within the design roof and floor load limits indicated below.

Design Criteria:

1. Live Load = 25 PSF (Snow)
   = 40 PSF (Floors)
2. Dead Load = 15 PSF (Roofs)
   = 12 PSF (Floors)
   = 10 PSF (Wood Walls)
   = 10 PSF (Partition Load)
   = 150 PCF (Concrete)
3. Wind : **2018 IBC**
   a. Basic wind speed = 110 mph
   b. V-asd wind speed = 85 mph
   c. Risk category = "II"
   d. Exposure category = "B"
   e. Internal pressure coefficient = +0.55/-0.55
4. Earthquake: **2018 IBC**
   a. Risk category = II
   b. Importance factor "I" = 1.0
   c. Spectral response acceleration parameter Ss = 1.277
   d. Spectral response acceleration parameter S1 = 0.440
   e. Site classification = "D"
   f. Spectral response acceleration parameter Sds = 1.021
   g. Spectral response acceleration parameter Sd1 = null
   h. Seismic design category "D2"
   i. Seismic response coefficient CS = 0.127
   j. Response modification factor = 6.5
   k. Basic force resisting system = bearing walls-"K"
   l. Design procedure = Simplified analysis
5. Soil = 1500 PSF, Assumed Bearing Capacity

Foundation

1. All footings shall be founded on native undisturbed soil.
2. **Optional:** A continuous 4" diameter perforated footing drain shall be placed around the entire perimeter of the foundation and installed as shown on the drawings. The footing drain shall be sloped and terminated at an approved location down hill of the structure.
3. Pressure-treated Mud-sills: **Use 1/2" diameter X 10" ASTM A307 anchor bolts at 72" on center with pressure treated 2x nominal thickness plates, unless otherwise noted on the foundation plan.**
4. All anchor bolts shall use 3" square x 1/4" thick steel plate washers.

Concrete & Reinforcing Steel:

1. All concrete work shall be per the **2018 IBC** Chapter 19. Tolerances shall be per IBC Chapter 19, Section 07. Mixing, placement, and inspection shall be per Sections 03, 04, 05, and 06.
2. Cement: ASTM C150, normal-Type I or I-II.
3. Coarse or fine aggregate: ASTM C33.
4. All reinforcing shall be ASTM A615 Grade 40 for #4 bars or smaller and Grade 60 for #5 bars or larger.
5. Use 24" elbow bars at all footing and stemwall corners and intersections at horizontal continuous reinforcement.
6. Admixtures: Water reducers-ASTM C494, Type A. Air entrainment-ASTM C260 and ASTM C494, with no chlorides.
7. Concrete shall be in accordance with ASTM 150. Do not use calcium chloride, fly ash or related materials. f'c = 2500 PSI @ 28 day-5-1/2 sack mix-3/4" maximum size aggregate. Slump = 5" maximum, 6% max Air entrained.

Carpentry:

1. Structural 2X & 4X framing shall be #2 Doug-Fir.
2. 6X columns/beams/headers shall be #1 Doug-Fir.
3. 2X rafters/joists shall be #2 Douglas-fir, kiln dried, and stored in a dry area prior to installation.
4. Floor joists shall be by Trus-joist, Boise Cascade, Louisiana Pacific, or other approved manufacturer.
5. Roof trusses shall be by a pre-approved manufacturer and constructed according to the specifications of the Truss Plate Institute. Contractor and Truss Manufacturer are responsible for all bracing of the trusses including end wall bracing and all other bracing between the building and the trusses unless specifically shown otherwise on the drawings.
6. Manufactured beams/columns (LSL) shall have the following properties:

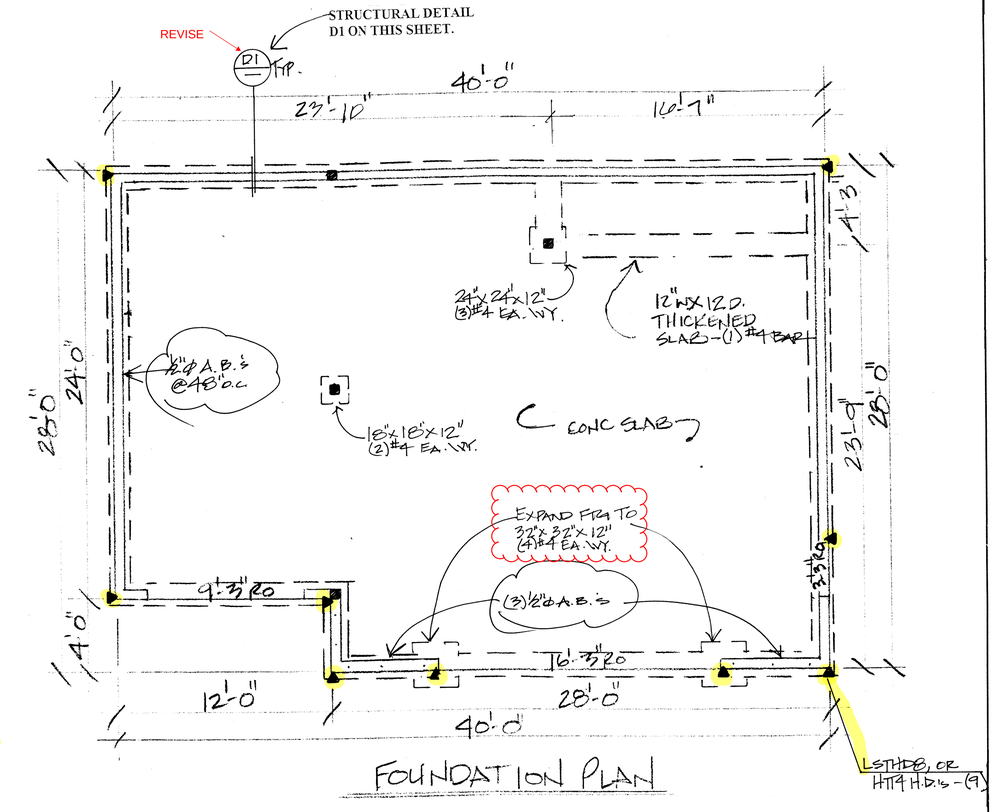
   (Fb = 1,730 psi)
   (Fv = 410 psi)
   (E = 1,350,000 psi)
7. Glue laminated beams shall be 24F-V4 for simple spans, and 24F-V8 for cantilevered or continuous beams and have the following properties:
   (Fb = 2,400 psi)
   (Fv = 240 psi)
   (E = 1,800,000 psi)
   (Fcl = 650 psi)
8. Continuous and cantilevered beams shall not be cambered. All other Glu-laminated beams shall be cambered for L/480. See framing plans for any exceptions.
9. Floor sheathing shall be ¾" T&G. Sheathing at floors shall be laid with the face grain perpendicular to supports and end joints staggered 4'-0" on center. Provide 1/8" space between panel edges as required by sheathing manufacturer's specifications. Floor sheathing shall be nailed with 10d box nails at 6" o.c. edges and 10" o.c. in the field unless otherwise noted on the drawings.
10. Sheathing at roofs shall be laid with face grain perpendicular to supports and end joints staggered 4'-0" on center. Provide 1/8" space between panel edges as required by sheathing Manufacturer's. Roof sheathing shall be nailed with 8d box nails at 6" o.c. edges and 12" o.c. in the field unless otherwise noted on plans.

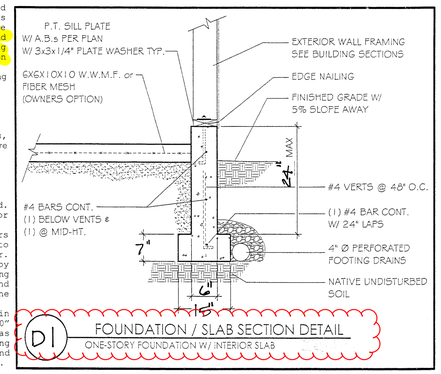
CAUTION

PLACE TRUSSES PER MANUFACTURER'S RECOMMENDATIONS. BRACE PER RECOMMENDATIONS. NOT PROVIDED ON TRUSS LAYOUT - PROVIDE CALULATIONS AND ATTACHMENTS TO SUPPORT LAYOUT

CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING AND SHORING REQUIRED DURING PLACEMENT OF TRUSSES.

CONTRACTOR IS REQUIRED TO FIELD VERIFY ALL CONDITIONS AND ALL ELEVATIONS.





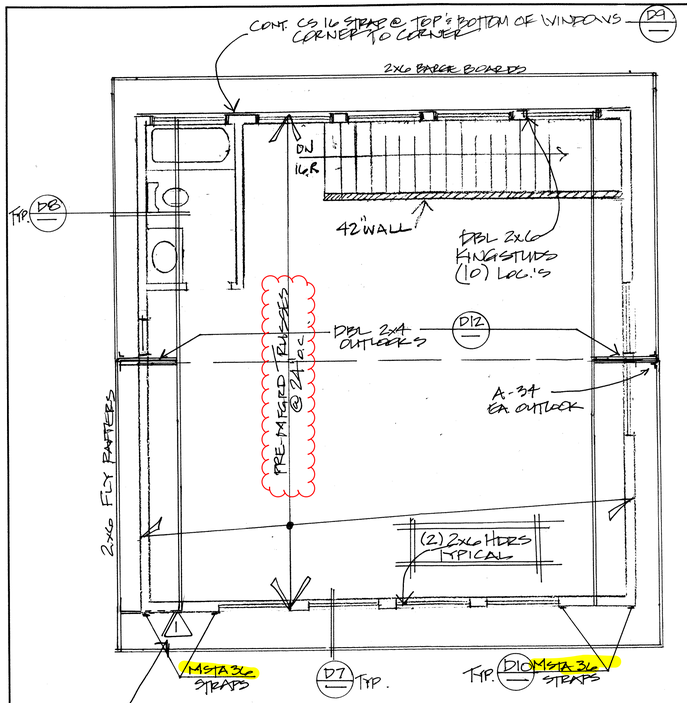
ATTENTION:

ALL ENGINEERING CALLOUTS ON THESE PLANS MUST BE STRICTLY FOLLOWED! NO EXCEPTIONS! ANY CHANGES OR MODIFICATIONS MUST BE PRE-APPROVED BY THE ENGINEER OF RECORD!

THOMPSON ENGINEERING, INC.
541 JORDAN LN RICHLAND, WA 99352
PHONE: (509) 987-1599 email: rthompsonengineering@yahoo.com

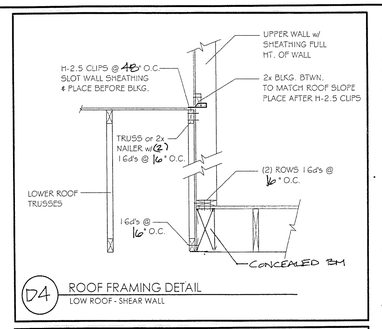
SCALE:	PROJECT #21-107	DRAWN BY:
DATE:		REVISED:
STROBL GARAGE/RV		
FOUNDATION PLAN, NOTES & DETAILS		DRAWING NUMBER: SHEET S1 OF 2

RANDALL THOMPSON STATE OF WASHINGTON 34971 REGISTERED PROFESSIONAL ENGINEER
8/3/21

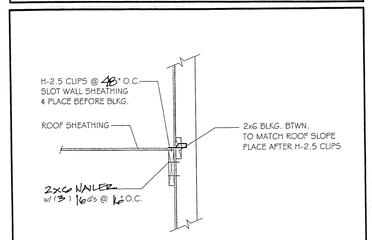


UPPER ROOF FRAMING PLAN
SHEARWALL & HOLDOWN PLAN

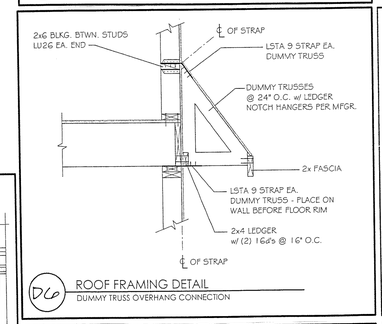
TYPICAL AT ALL EXTERIOR
WALLS UNLESS OTHERWISE NOTED!



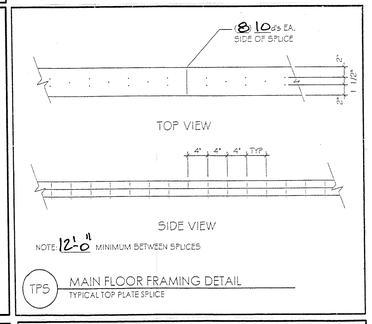
D4 ROOF FRAMING DETAIL
LOW ROOF - SHEAR WALL



D5 ROOF FRAMING DETAIL
LOW ROOF - WALL CONNECTION



D6 ROOF FRAMING DETAIL
DUMMY TRUSS OVERHANG CONNECTION



TP5 MAIN FLOOR FRAMING DETAIL
TYPICAL TOP PLATE SPLICE

TYPICAL SHEAR-WALL NOTES

All wall sheathing shall be 15/32" CDX plywood, 7/16" OSB (with studs at 16"o.c.), or as called out below, with exterior exposure glue and span rated "SR 24/0" or better. **(5/8" T1-11 siding is an acceptable substitution except where 5/8" or thicker sheathing is specifically called out in the schedule below).** Sheathing may be installed either horizontally or vertically.

All nails shall be per table below. Nail size and spacing at all sheathing edges shall be as required in shear-wall schedule below.

Nail Type	Diameter (inches)	Length (inches)
8d box	0.113	2-1/2
10d box	0.128	3
16d sinker	0.148	3-1/4
8d common	0.131	2-1/2
10d common	0.148	3

ALL SHEARWALL FRAMING LUMBER SHALL BE #2 DOUG-FIR SPECIES MATERIAL.

SHEAR-WALL SCHEDULE

1 sheathing nailed with 8d box at 6" on center all edges **= 260 plf.**

2 sheathing nailed with 8d box at 4" on center all edges **= 380 plf.**

ADDITIONAL SHEAR WALL NOTES:

- **Blocking is required at all horizontal edges of sheathing. Sheathing edge nailing is required at all holdown posts.**
- **Intermediate framing is to be minimum 2x members with nailing at 12" on center.**
- **Double 2x studs nailed together with (2) rows of 10d's at 4" o.c. may be used in place of a single 3x stud, unless other wise required in holdown schedule below.**

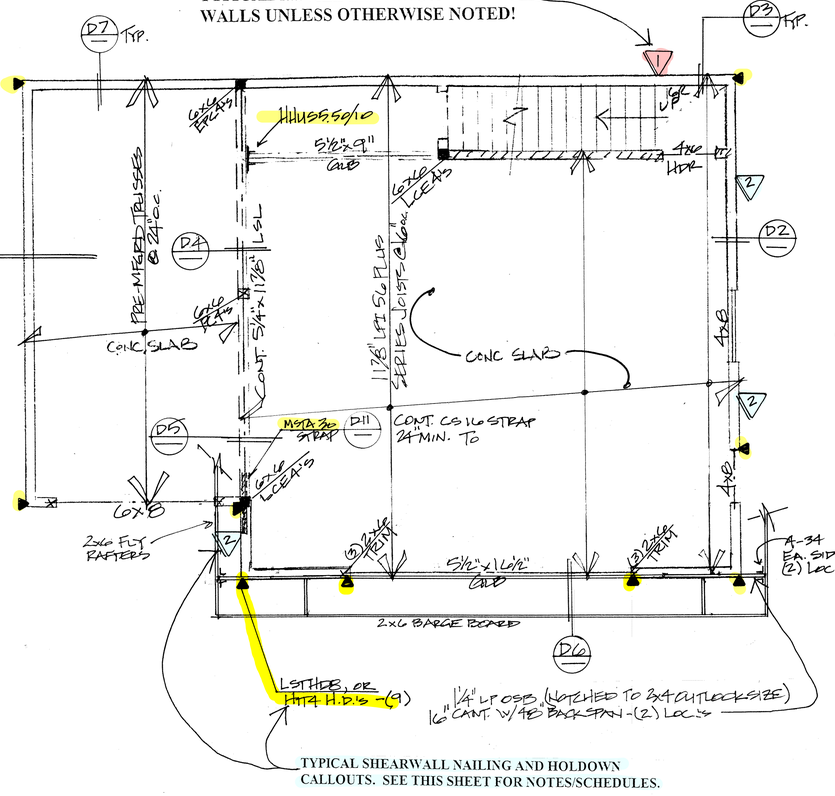
HOLDOWN SCHEDULE

Hold-downs shall be Simpson "Strong Tie" and shall be installed per the manufacture's recommendation.

All double OR triple studs **(ALLOWED PER HOLDOWN SCHEDULE BELOW)** shall be nailed together with (2) rows 10d's staggered at 4" on center each row for each layer.

LSTHD6/LSTHD8RJ--embeds a minimum of 8 inches into concrete oundation and to a double 2X6 stud with (16) 16d sinker nails in wall above.

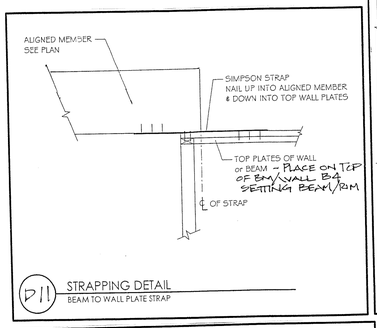
HTT4 attaches to concrete foundation with a Simpson **SSTAB16** bolt 12" minimum into concrete. HTT4 attaches to double 2X studs with (18) 16d *SINKER* nails in wall above.



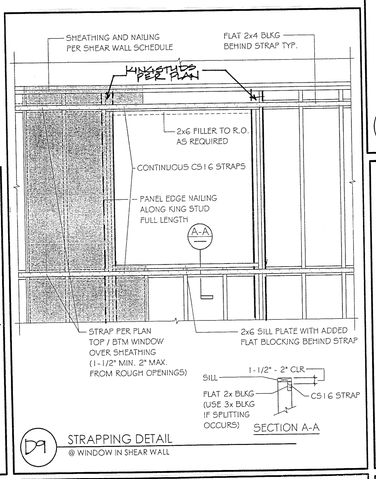
TYPICAL SHEARWALL NAILING AND HOLDOWN CALLOUTS. SEE THIS SHEET FOR NOTES/SCHEDULES.

LOW ROOF FRAMING PLAN
UPPER FLOOR FRAMING PLAN
SHEARWALL & HOLDOWN PLAN

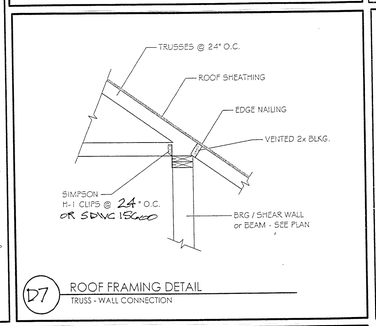
B-21-0712
CITY OF PUALLUP



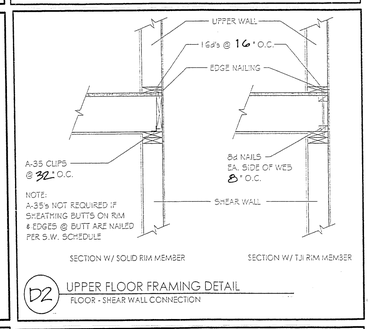
D11 STRAPPING DETAIL
BEAM TO WALL PLATE STRAP



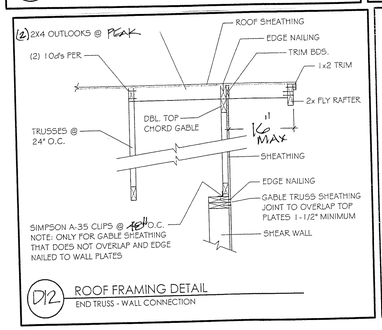
D9 STRAPPING DETAIL
@ WINDOW IN SHEAR WALL



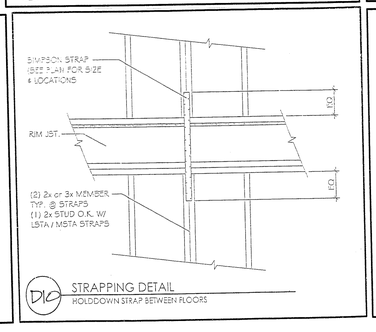
D7 ROOF FRAMING DETAIL
TRUSS - WALL CONNECTION



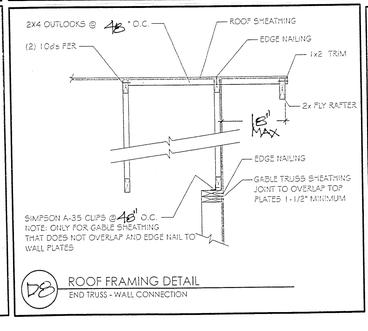
D2 UPPER FLOOR FRAMING DETAIL
FLOOR - SHEAR WALL CONNECTION



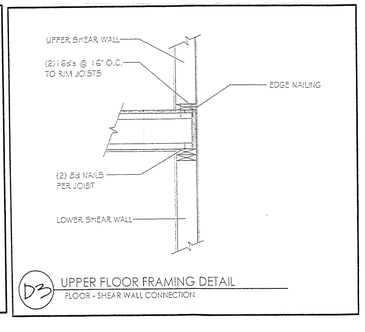
D12 ROOF FRAMING DETAIL
END TRUSS - WALL CONNECTION



D10 STRAPPING DETAIL
HOLDDOWN STRAP BETWEEN FLOORS



D8 ROOF FRAMING DETAIL
END TRUSS - WALL CONNECTION



D3 UPPER FLOOR FRAMING DETAIL
FLOOR - SHEAR WALL CONNECTION

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

ATTENTION:

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THOMPSON ENGINEERING, INC.
541 JORDAN LN RICHLAND, WA 99352
PHONE: (509) 987-1599 email: rthompsonengineering@yahoo.com

SCALE:	PROJECT #21-107	DRAWN BY:
DATE:		REVISED:
STROBL GARAGE/RV		
FRAMING/SW& HD PLANS, NOTES & DETAILS		DRAWING NUMBER: SHEET S2 OF 2

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8/3/21