

**DESIGN CRITERIA:**  
 Washington State Building Code w/ 2012 IBC w/ Amendments  
 Type of Construction: Type V-B  
 Occupancy Classification: Assembly A-3  
 Mean Roof Height = 10'-6"  
 Building Volume = 7,060 ft<sup>3</sup>  
 No. of Occupants = 45 (15 ft<sup>2</sup> per person)

**ROOF DL**  
 Metal Roofing & Felt 1.2 psf  
 2" Nom. T&G deck 4.6  
 Misc. 1.2  
 Total = 7.0 psf + weight of framing

**FLOOR LL**  
 L = 100 psf

**ROOF LL**  
 L = 25 psf

**ROOF SL**  
 P<sub>s</sub> = 25 psf (Ground Snow)  
 P<sub>f</sub> = 0.7 \* P<sub>g</sub> \* C<sub>e</sub> \* C<sub>s</sub> \* I<sub>s</sub>  
 C<sub>e</sub> = 1.0, C<sub>s</sub> = 1.2, I<sub>s</sub> = 1.0  
 P<sub>f</sub> = 21 psf  
 P<sub>s</sub> = P<sub>f</sub> \* C<sub>e</sub>  
 4:12 pitch: C<sub>e</sub> = 1.0, P<sub>s</sub> = 21 psf but USE 25 psf on roof

**WIND LOAD**  
 Risk Category II  
 V<sub>ult</sub> = 110 mph, V<sub>ref</sub> = 85 mph  
 Exposure 'B', Open Building w/ GC<sub>1</sub> = 0  
 Component & Cladding Ultimate Wind Pressures: See Sheet #1

**SEISMIC**  
 I<sub>e</sub> = 1.0  
 S<sub>s</sub> = 1.321, S<sub>1</sub> = 0.518  
 Site Class D (assumed)  
 S<sub>DS</sub> = 0.881, S<sub>D1</sub> = 0.518  
 Seismic Design Category D  
 Equivalent Lateral Force Procedure  
 Cantilevered Columns - Timber Frames  
 R = 1.5, C<sub>d</sub> = 0.587  
 V = 4,000#

**CONTRACT NOTE:**  
 Reference accepted proposal and/or executed contract for identification of items furnished. Any item not specifically included shall be provided by owner, installer or others. Some items are specifically noted as N.I.C. (not in contract).

**LAMINATED WOOD SPECIFICATIONS:**  
 SPECIES ----- SOUTHERN YELLOW PINE  
 LAMINATION THICKNESS ----- 2" NOMINAL  
 STRESS COMBINATION ----- SEE MEMBER DETAILS  
 ADHESIVE ----- RESORCINOL  
 APPEARANCE GRADE ----- ARCHITECTURAL  
 FINISH ----- STAIN & SEAL  
 PROTECTION ----- INDIVIDUAL WRAP  
 PRESERVATIVE TREATMENT -- CCA 0.4 PCF (MIN) RETENTION @ COLUMNS, TREATED PRIOR TO GLUING  
 HARDWARE ----- PER DETAILS & LIST

**SOLID TIMBER SPECIFICATIONS**  
 2 x 4 Nailer ----- #1 SYP, S4S, KD, STAINED.  
 2 x 6 Fascia ----- #1 SYP, S4S, KD, TREATED, STAINED.  
 2 x 8 Roof Deck ----- #1 SYP, T&G, S/L, CM, EV1S, KD, STAINED  
 Deck furnished in specified lengths (S/L), not precision end trimmed (PET), field cutting required.

**WOOD SHOP NOTES:**  
 1. Materials, Manufacture and Quality Control of glulam shall be in conformance with, "American National Standard for Wood Products-Structural Glued Laminated Timber ANSI/AITC A190.1-2002".  
 2. Members shall be marked (in an unseal location) with an AITC or APA/EWS Quality Mark and, in addition, an AITC or APA/EWS Certificate of Conformance shall be provided to indicate conformance with "ANSI/AITC A190.1-2002".  
 3. All holes in wood to be 1/32" unless noted otherwise.  
 4. All counterbores to be 2 1/4" unless noted otherwise.  
 5. ▲ denotes edges to be chamfered for welds.

**STEEL & HARDWARE SHOP NOTES:**  
 1. All steel plate to be ASTM A572 Grade 50.  
 2. Steel tubes to be ASTM A500 Grade B, Fy=46 ksi.  
 3. All welding is to be done in accordance with latest AWS standards. If welds are not specified, all welds are to develop full strength of all component parts.  
 4. All bolts to be ASTM A307.  
 5. All holes in steel to be 1/32" unless noted otherwise.  
 6. All fabricated steel to be factory primed & field finished painted. Field touch-up if required by others.

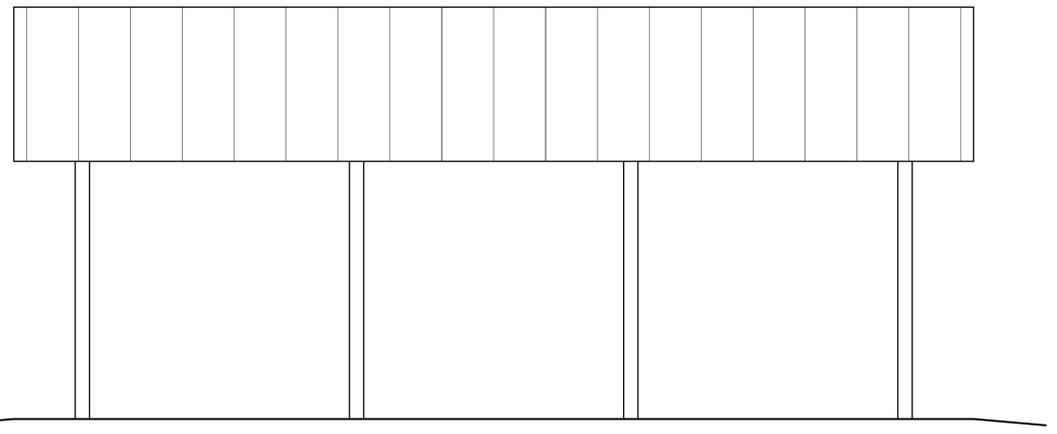
**CONCRETE NOTES:**  
 1. Remove all organic material and topsoil from slab area. Verify suitability of subgrade. Footings are to bear on undisturbed, natural soil or engineered fill. Both are to be compacted to 95% Proctor density.  
 2. Prepare slab with min. 8" compacted sand, gravel, or crushed rock.  
 3. Concrete slab to be 4" thick. Reinforce slab with 6x6-w1.4xw1.4 welded wire fabric at mid-depth. Lap splices 8". Alt.: Fiber mesh admixture (min. 1.5#/c.y., fibrillated polypropylene).  
 4. Edge of slab to be thickened to min. 8" deep x 8" wide reinforced with 2-#4 continuous rebars. Lap splices min. 24".  
 5. In locations subject to frost, install isolation joint, max. 1/8" wide, around column piers using diamond or circular layout. Wire mesh shall be interrupted at isolation joints.  
 6. Install crack control joints (3/16" wide x 1" deep) at 8' to 12' o.c.  
 7. Concrete slabs in open areas are to be sloped for drainage from center to edge and away from columns. Surface is to be lightly broomed or have a wood troweled finish.  
 8. Concrete slabs in enclosed areas are to have positive drainage to floor drains and have a troweled finish.  
 9. Concrete slab, foundation, re-bar, wire mesh, leveling nuts, grout & anchor bolts (if required) are N.I.C.  
 10. All concrete reinforcing steel to be grade 60, deformed bars.  
 11. F<sub>c</sub> of concrete to be 3000 psi @ 28 days, air-entrained.  
 12. All concrete work to be in accordance w/ latest ACI code.  
 13. Assumed allowable soil bearing pressures: 2000 psf vertical bearing, 150 pcf passive lateral bearing. It is the Owner's responsibility to verify that the allowable soil bearing values at the site meet or exceed these assumed values. If the actual values are lower than the assumed values, the foundations must be redesigned (N.I.C.).

**ERECTION NOTES:**  
 All wood members must be properly braced until the complete structural system has been constructed. Correction of minor misfits and a reasonable amount of reaming or alignment with drift pins will be considered a legitimate expense of erection.

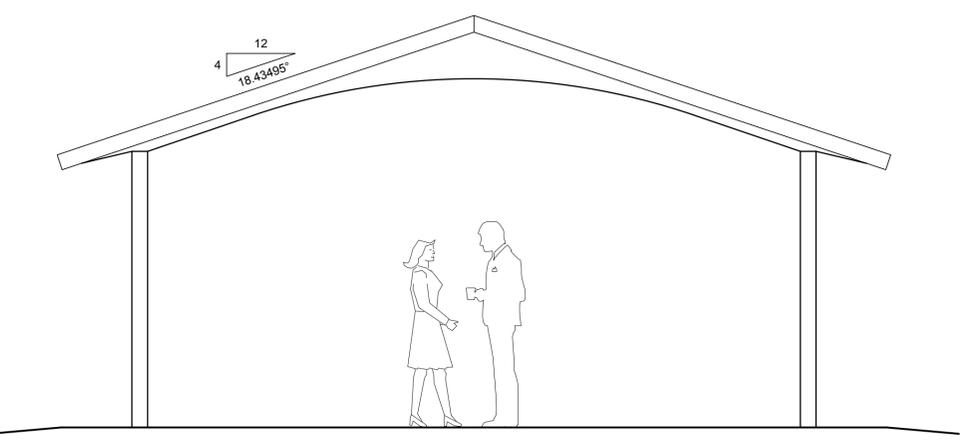
In the event of error, defect in materials, and/or workmanship of shop work which prevents proper assembling and fitting up of parts by the moderate use of drift pins, or reaming, immediately report to the seller and obtain seller's approval of the method of correction.

Bolts through slotted holes in steel are to be left finger tight only to allow for future movement. Other bolts are to be snug tight. Torque measurement is not required.

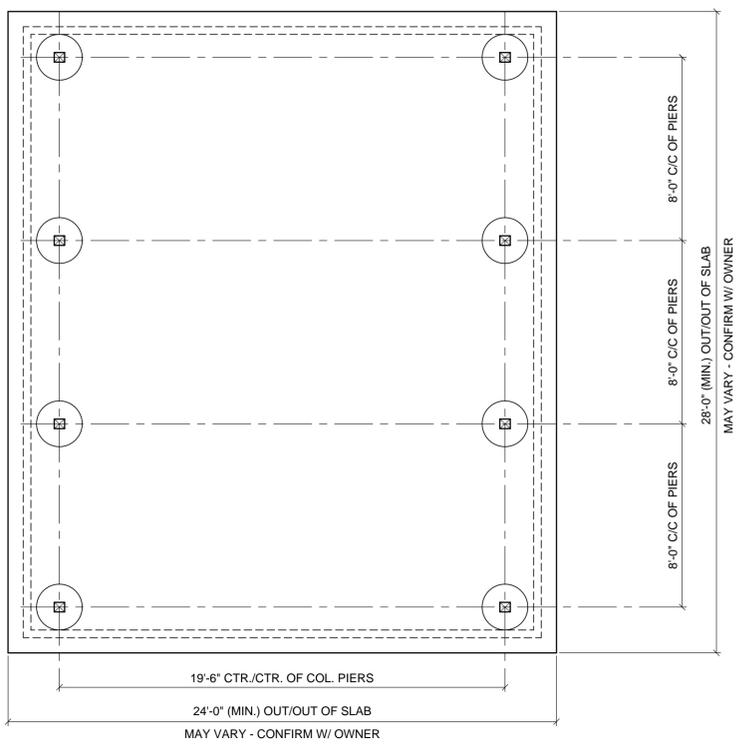
**NOTE:** This building has been designed as a free standing, open structure. If walls are to be added, or if the building is to adjoin another structure, or if other modifications are to be made, the structure must be re-engineered prior to these modifications (by others).



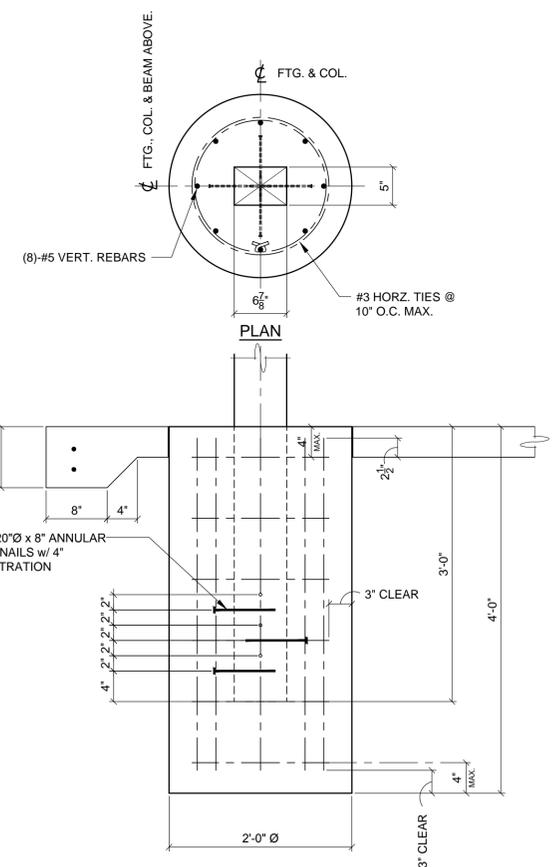
**SIDE ELEVATION**



**END ELEVATION**



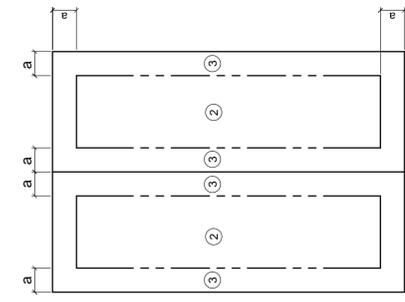
**FOUNDATION PLAN**  
NO SCALE



**COLUMN FOUNDATION DETAIL**

**COLUMN BASE REACTIONS:**

↑ V<sub>DL + SL</sub> = 3,330#  
 ↓ V<sub>0.6\*DL+0.6\*WL UPLIFT</sub> = -110#  
 → H<sub>DL+0.7\*E</sub> = 440#  
 ↻ M<sub>0.T.DL+0.7\*E</sub> = 3,600#-ft



**ROOF PLAN**

a = 3.0'  
**DESIGN PRESSURES**  
 FOR COMPONENTS & CLADDING

ZONE	PRESSURE	SUCTION
2	28 PSF	26 PSF
3	36 PSF	33 PSF

**DESIGN CERTIFICATION FOR:**

BUILDING SIZE: 24' x 28'  
 BUILDING LOCATION: LYNNWOOD, WA

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**LW-G2428-04**  
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 LYNNWOOD, WA

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 REV 2:  
 REV 3:  
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