ROOF TRUSSES:

joist framing.

FLOOR JOIST:

GENERAL STRUCTURAL NOTES

40 psf

60 psf

100 psf

125 psf

20 psf

40 psf

Pf= 40 psf

Ce= 1.0

Ct= 1.1

100 mph (3) second gust

Ss= 0.316 S1= 0.077

Equivalent lateral force procedure

V= 0.039 W

Cs=0.039

R= 6.5

I= 1.0

Snow exposure factor

Thermal factor

Importance factor

Wind exposure E. Seismic design category

Site class

or Engineer of record.

and Electrical plans.

slope to the bottom of same.

to the bottom of the footings.

REINFORCING STEEL FOR CONCRETE:

by CTSI and WCRSI (latest edition).

A. Concrete deposited against earth = 3 inches

C. All structural steel bolts to be ASTM A-307.

#5 rebar and smaller = 1 1/2 inches. #6 rebar and larger = 2 inches.

heights by approved bolsters.

corners and intersections.

detailed otherwise.

REINFORCING PROTECTION:

C. Slabs = 3/4 inches.

approved equivalent.

to complete the job.

shall be pressured treated

STRUCTURAL WOOD:

GLU-LAM BEAMS:

Construction".

grade 60 bars.

FOUNDATION:

Importance factor

Occupancy category

Design base shear

Spectral response accelerations

Spectral response coefficients

Seismic response coefficient(s)

Analysis procedure used

Response modification factor(s)

A. Contractor shall be responsible for all construction methods, techniques,

C. Contractor shall verify all required openings on Architectural, Mechanical

accordance with S. W. Cole Engineering, Inc. report for project 14-1188s

D. All bottom of exterior footings to be a minimum of 54" below finish grade. E. Back fill all pipe trench excavations below footings with lean concrete

A. Concrete to develop a unit compressive stress of 3,000 psi minimum at

B. Details of reinforcing steel shall conform to ASTM Manual of Standard

C. All concrete slab reinforcing steel shall be supported at the required

D. Provide 2'-0" X 2'-0" corner bars for all horizontal wall steel at all

E. Splices shall be lapped 36 bar diameters or 2'-0" minimum unless

A. All structural steel plates, and shapes to be ASTM A-36 (Fy=36,000 psi).

H. Fabrication and erection shall conform to the specifications set fourth

in the Steel Construction Manual of the AISC and the Standard Code for

A. All sawn lumber, inluding stud wall framing, to be #1/#2 grade SPF (U.N.O.),

except 4x lumber to be No. 2 Douglas Fir Larch, 6x lumber or larger

B. The contractor shall furnish and install all bolts and plates as required

C. All bolt heads and nuts bearing on wood to be provided with standard

E. Fasteners in contact with preservative-treated wood shall be of hot-

are used in exterior applications and in contact with preservative-

D. All wood members in contact with concrete, masonry or exposed to weather

dipped zinc coated galvanized steel, silicon bronze or copper. Fasteners

permitted to be of mechanically deposited zinc-coated steel with coating

treated wood shall have coating types and weights in accordance with

type G185 zinc-coated galvanized steel, or equivalent, shall be used.

Exception: Plan carbon steel fasteners in SBX/DOT and zinc borate

F. All nailing not shown shall be called for in I.B.C. table 2304.9.1, fastening

G. Roof sheathing shall be 15/32" CDX plywood with a span rating of 24/16.

Structural Glued Laminated Members of the American Institute of Timber

B. Glued-laminated members shall be laminated from Coast Region Douglas

H. Floor sheathing shall be 3/4" CDX plywood with a span rating of 40/20.

A. Beams to be built in accordance with "Standard Specifications for

preservative-treated wood in an interior, dry environment shall be

the treated wood or connector manufacturer's recommendations. In the

absence of manufacturer's recommendations, a minimum of ASTM A 653,

weights in accordance with ASTM B 695, Class 55 minimum. Connectors that

other than nails, timber rivets, wood screws and lag screws shall be

to be No. 1 Douglas Fir Larch, per I.B.C. section 2303.1.1.

B. Concrete formed surfaces exposed to ground or weather:

B. All anchor bolts to be ASTM F1554, grade 36 minimum.

A.W.S., A.I.S.C., I.B.C., and other applicable codes.

ARC and Gas Welding in Building Construction.

cut washers, except where otherwise shown.

G. All wedge anchors to be Simpson Strong-Bolt 2 anchors or

D. All structural steel beams to be ASTM A-992 (Fy=50,000 psi). E. All steel tube columns to be ASTM A-500 grade B (Fy=46,000 psi). F. All welding to be done by AWS certified welders and shall conform to

practice, Code of Standard Practice for detailing reinforcing materials,

A. All reinforcing steel shall be rail steel deformed bars conforming to

28 days per I.B.C. section 1905 with 5 sacks of cement/ cubic yd. minimum.

ASTM A615, grade 60 bars except where welding is required use A706,

B. Contractor shall verify all dimensions and details prior to proceeding with constuction. All discrepancies shall be approved by the Architect

A. Footing have been designed for a maximum allowable soil bearing pressure of 4,000 psf on native material or properly compacted

B. All footings shall be constructed as shown on the plans and in

5 C. No excavation shall be made below any footing closer than one to one

sequencing and safety required to complete construction.

Seismic-force-resisting system(s)

Occupancy category

D. Basic wind speed

Snow load importance factor

- A. Roof framing members shall be designed to support the specified loads and limit maximum total load deflection to L/240 of the span.
- B. Roof truss manufacturer's design shall include required bearing, bracing, blocking, fastening and attaching devices to carry the specified loads. C. Erection and installation shall be in accordance with the specifications
- set fourth by the manufacturer. D. The roof truss manufacturer shall supply all trusses, associated load

transfer blocks, hangers, bracing, blocking and beveled plates as to complete the roof truss framing.

STRUCTURAL INSPECTION AND TESTING:

- A. All construction shall be inspected in conformance with the
- 2009 Edition International Building Code. B. All items noted as required special inspection per the International Building Code 2009 Edition in accordance with section 1704, shall be Sds= 0.253 Sd1= 0.087 ASCE 7-05 Method 12.8:A.13 & G.1
 - performed by a qualified person who can demonstrate competence for the particular type of construction being inspected. The special inspections shall be performed in addition to the inspections required by the International Building Code, The plans and Specifications, The Architect of Record, and the Building Officials.

ITEM	CONTINUOUS 3	PERIODIC	3 COMMEN
SOILS			
Grading, Excavation & Backfill			By Geotech.
Final Foundation Inspection			By Geotech.
CONCRETE			
Reinforcing Placement		X	
Reinforcing Welding			Ref. Note 6
Anchor Bolts & Inserts		X	
Preparation of Test Specimens			F'c = 2500 ps
Concrete Placement			
Epoxy Anchor Placement	X		
Expansion Anchor Placement		X	
STRUCTURAL STEEL			
High Strength Bolting			A325 89 A490
Welding of Anchors & Studs			
Welding Stairs/Railing System			
Embedded Plates			
SHOP WELDING			
Single Pass Fillet Welds ≤ 5/16"	***************************************	X	Ref. Note 4
Fillet Welds > 5/16"			Ref. Note 4
Partial/Complete Penetration			Ref. Note 5
FIELD WELDING			
Single Pass Fillet Welds ≤ 5/16"		X	Ref. Note 4
Fillet Welds > 5/16"			Ref. Note 4
Partial/Complete Penetration			Ref. Note 5
Prefab. Construction			Ref. Note 7
WOOD			
Plywood Nailing		X	
Holdown Installation		Х	

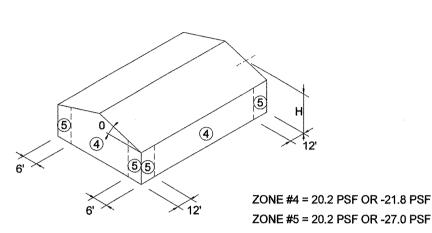
- 1. The items marked with a 'X' shall be inspected in accordance with 2009 I.B.C. Section 1704 by a certified special inspector from an established test agency. For material sampling and testing requirements, refer to the material sampling and testing section, the project specifications and the specific general notes sections. The testing agency shall send copies of all structural testing and inspection reports directly to the Architect, engineer, contractor and building official. Any materials which fail to meet the project specifications shall immediately be brought to the attention of the architect. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority and to the building official. The special inspector shall submit a final signed report stating whether the work requiring special inspection was to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the code. Special inspection testing requirements apply equally to all bidder designed components fabricator per 2009 I.B.C. section 1704.2.2.
- 2. Special inspection is not required for work performed by an approved 3. Continuous special inspection means that the special inspector is on site
- at all times observing the work requiring the special inspection (2009 I.B.C. section 1704). Periodic special inspection means that the special inspector is on the site at the time intervals necessary to confirm that all work requiring special inspection is in compliance. 4. All welds shall be visually inspected.
- 5. All complete penetration welds shall be tested ultrasonically or by using approved method.
- 6. Periodic special inspection is only required for welding of ASTM A706 reinforcing steel not greater then No. 5 used for embedments, provided the materials, qualifications of welding procedures and welders are verified prior to the start of work: periodic inspections are made of work in process: and a visual inspection of all welds is made prior to
- completion or prior to shipment of shop welding. . Inspection for prefabricated construction shall be the same as if the material used in the construction took place on site. Continuous inspection will not be required during prefabrication if the approved agency certifies the construction and furnishes evidence of compliance.
- Snug tight. 9. Turn of the nut method.
- C. Contractor to retain an approved special inspector to observe and approve all high strength bolt installations.

All material and workmanship shall conform to the requirements of the 2009 International Building Code. **DESIGN LOADS:** A. Floor live load Deck live load Common live load Storage live load B. Roof live load 7< 0≤27° C. Roof snow load Flat-roof snow load ZONE #1 = 11.6 PSF OR -18.5 PSF

ZONE #3 = 11.6 PSF OR -47.5 PSF

HIP ROOF

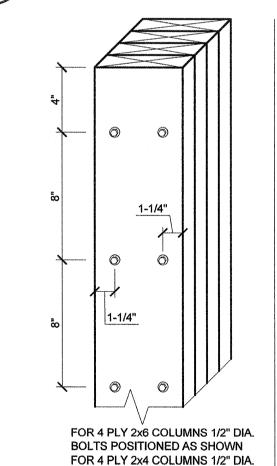
ZONE #2 = 11.6 PSF OR -32.1 PSF

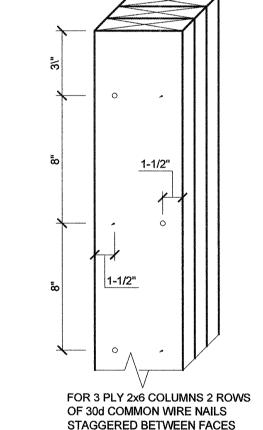


-11.6 PSF OR -32.1 PSF 1 (22)1 7< 0≤27° ZONE #1 = 11.6 PSF OR -18.5 PSF 3 2 33 2 3 ZONE #2 = 11.6 PSF OR -32.1 PSF ZONE #3 = 11.6 PSF OR -47.5 PSF

ROOF COMPONENT AND CLADDING (LOADING DIAGRAM)

SCALE: N.T.S.





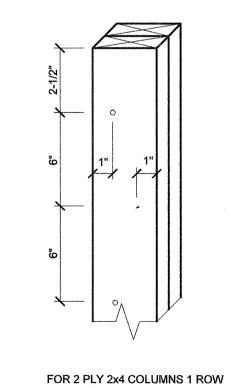
1-1/2"

FOR 2 PLY 2x6 COLUMNS 2 ROWS

OF 10d COMMON WIRE NAILS

STAGGERED BETWEEN FACES

BOLTS AT CENTER LINE SPACE AS



OF 10d COMMON WIRE NAILS STAGGERED BETWEEN FACES

BUILT UP COLUMN (NDS - FIGURE 15C TYP. NAILING FOR BUILT UP COLUMNS) SCALE: N.T.S.

ASSEMBLY "B" ASSEMBLY "C" ASSEMBLY "A" 3 PCS. 1-3/4" 2 PCS, 1-3/4" 4 PCS. 1-3/4" THROUGH BOLTED NAILED CONNECTION CONNECTION 2 ROWS 1/2" 2 ROWS 1/2" 3 ROWS 16d 2 ROWS 16d ASSEMBLY COMMON WIRE COMMON WIRE BOLTS AT AT BOLTS AT AT NUMBER AT 12" O.C. AT 12" O.C. 12" O.C. 1010 505 380 340 760

MULTIPLE MEMBER BEAMS (SIDE LOADED CONNECTION)

STRAP AT DBL. TOP PLATE PER DETAIL 14/S2.3 BATT. INSULATION (2) ROWS 16d @ 24" O.C. - 2 ROWS 16d @ 24" O.C.

TYPICAL CORNER

SCALE: 1" = 1'-0"

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Fir lumber and shall be 24F-V4 structural grade for simple span members and 24F-V8 structural grade for continuous and cantilevered members.

DETAILS 1, 2 NOT USED

8/28/2015

REVISED DATE 1\9/22/2015 2 2/2/2016 5\7/18/2016

SHEET