Occupancy Category, Table 1604.5

Floors: Residential = 40psf	Floors:	Residential	= 40 psf
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Snow: Ground Snow Load = 60 psf

Wind: Wind Velocity 100mph

FOUNDATION:

- inappropriate for this building site.)
- soils engineer.
- * Maximum design soil pressure: 1,500 psf

STRUCTURAL WOOD FRAMING:

2x framing shall be Spruce-Pine-Fir S4S No. 2 and better unless noted. All lumber shall be 19% maximum moisture content, unless noted. Studs shall be Spruce-Pine-Fir S4S No. 2 and better. Top and bottom plates shall be Spruce-Pine-Fir S4S No. 2 and better. Wood in contact with concrete shall be pressure-treated Spruce-Pine-Fir S4S No. 2 or Southern Yellow Pine. Conventional light framing shall comply with IBC Section 2308. Except as noted otherwise, minimum nailing shall be provided as specified in IBC Table 2304.9.1 "Fastening Schedule." Nail wall sheathing with 8d commons at 6" o.c. at panel edges, and 12" o.c. at intermediate framing except

as noted.

Minimum height of sheathing panels shall be 16" to assure that plates are tied to studs. Minimum 3-8d per stud and nail plates with "edge nail" spacing. Sole plate at all perimeter walls and at designated shear walls shall be nailed as for braced panels with 3-16d $x \ 3 \ 1/2$ " long box nails (coated or deformed shank) per 16". 12d nails are not acceptable. Provide solid blocking between joists under jamb studs of openings.

- Registered in the State of construction, and shall comply with Code Requirements.
- and laterally braced to roof framing at 8'-0 spacing.
- develop the rated capacity.
- from the factory.

All beams and trusses shall be braced against rotation at points of bearing. Unless otherwise indicated, install two lengths of solid blocking x joist depth x 12 inches long in floor framing under column loads. Columns must have a continuous load path to foundation. Lead holes for lag screws shall be drilled in accordance with Table 6.23 of the AITC Timber Construction Manual, 3rd edition.

CONCRETE AND REINFORCEMENT:

- * Concrete shall conform to applicable provisions of ACI-301 and 318. * Minimum 28 day compressive strength (F'c) as follows:
- 3,000 psi Footings : Walls: 3,500 psi w/ 6% air entrainment Interior Slabs: Exterior Slabs: Cement Type: I/II
 Deformed reinforcement: ASTM A615 grade 60.

- * In continuous members, splice top bars at mid span and bottom bars over supports.

STRUCTURAL STEEL:

- * Structural WF Beams.: * Angles, misc:
- * Anchor Bolts:
- * Standard pipe columns:
- * HSS Columns:
- ASTM A307 * Connector bolts:
- specifications.
- In concrete: Wedge Type
- In solid masonry: Sleeve Type
- minimum compressive strength 5000psi. * All structural steel shall be fabricated and erected per the current edition of AISC Steel Construction Manual.

- actuated drive pins at 24" o.c., U.O.N. * All steel beams exposed to weather shall be HDG -typ.

- STRUCTURAL ERECTION AND BRACING REQUIREMENTS may be required to achieve the final completed structure.
- department or any other party will be accomplished at the owner's expense.
- of the slab, unless specifically shown and noted otherwise.
- attention of the architect/engineer for review.

- * Fibermesh: 100% virgin polypropylene, fibrillated fibers as manufactured by Fibremesh Co. per * Welded Wire Fabric (WWF): ASTM A185. See also plan.
- at corners and steps.
- * At all splices, lap bars 50 diameters unless noted otherwise.
- weather; 3" for concrete placed against earth. See also drawings.

STRUCTURAL GENERAL NOTES

DESIGN LOADS: International Building Code; IBC 2009 Edition, except as noted II Standard

Attic/Sleeping (not used)

* Foundations are designed without an engineer's soil investigation. Foundation design criteria was assumed for purposes of foundation design and shall be confirmed by a soils engineer, at owner's expense, prior to construction. (This procedure may require revisions to foundation design, at additional expense to the owner, if soils engineer determines that such design criteria are

* Footings shall be placed on undisturbed natural soil or compacted fill tested and approved by

Pre-engineered, prefabricated trusses shall be designed for the fabricator by a Professional Engineer

Truss to truss connections specified shall be by truss supplier, unless specifically noted on the drawings. Lower chord of gable end trusses shall be anchored to wall plate with framing anchors at 4'-0 spacing

Truss supplier shall specify all floor and roof truss bracing and bridging. All roof rafters, joists, trusses, and beams shall be anchored to supports with metal framing anchors. Light gage framing anchors shown or required, shall be Simpson "Strong Tie" or equal Code approved connectors and installed with the number and type of nails recommended by the manufacturer to

Note that heavy-duty hangers and skewed hangers may not be stocked locally and require special order

4,000 psi w/ fibermesh

4,000 psi w/ fibermesh and 6% air entrainment

ASTM C-1116 type 111 4.1.3 and ASTM C-1116 performance level one, 1.5 lb. per cubic yard. * Typical minimum foundation reinforcing: 2 #5 top and bottom,(except as noted) continuous

* Reinforcement shall be fabricated and placed per ACI Manual of Standard Practice (ACI-315).

Minimum 2 #5 around all four sides of all openings, extend min. 2'-0 beyond openings.
Concrete cover over reinforcing: 1¹/₂" for concrete placed against forms; 2" if exposed to

* Keep reinforcement clean and free of dirt, oil, scale. Oil forms prior to placing reinforcement.

ASTM A992 ASTM A36

(HDG) ASTM A307 or A36 or F1554 gr. 36

ÀSTM A 53, Grade B. ASTM A500, Grade B, 46 ksi

* Expansion Anchors shall be NER approved, installed in accordance with manufacturers

* Non-shrink grout beneath column base and beam bearing plates shall be non-metallic with

* Welding by qualified welders. E70XX electrodes. 3/16" fillet welds, unless noted otherwise.
* Except as noted, framed beam connections shall be detailed to develop 0.6 x Allowable Uniform Load values tabulated in the 9th Edition AISC Manual, Pp. 2-27 and following. * All beams shall have full depth fitted web stiffeners each side of webs above and below columns.

* Attach wood nailer plates to beams with 1/2" diameter machine or carriage bolts at maximum 32" o.c., or 3/8" diameter bolts at 32" with glued contact face, or 5/32" diameter powder

* The structural drawings illustrate the completed structure with all elements in their final positions, properly supported and braced. The contractor, in the proper sequence, shall provide proper shoring and bracing as

* These plans have been engineered for construction at one specific building site. Plans shall not be used for construction at any other building site. Contact engineer for review. * Observations of foundation reinforcing or framing required by the owner, lender, insurer, building

* All slabs on grade shall be separated from adjacent structural and finish elements to allow free movement

* All existing conditions shall be verified by the contractor. All discrepancies shall be brought to the

	WOOD POST
0	STEEL COLUMN
	NUMBER OF WOOD STUDS IN POST BELOW
A/B/C	COLUMN (ABOVE, BELOW, OR CONTINUOUS) THIS LEVEL
	(N) JOIST BEARING
— <i>—</i> —	(N) CONTINUOUS JOIST WITH INTERMEDIATE BEARING
	(N) FLUSH FRAMED JOIST W/ HANGER
//////	(N) STUD BEARING WALL BELOW
	(N) SHEAR WALL
	(E) JOIST BEARING
<u> </u>	(E) CONTINUOUS JOIST WITH INTERMEDIATE BEARING
=	(E) FLUSH FRAMED JOIST
//////	(E) BEARING WALL BELOW
	OVER FRAMING BY OTHERS - TYP
"X"T	NUMBER OF TRIM STUDS UNDER HEADER
"X"K	NUMBER OF KING STUDS ADJACENT TO HEADER

A	COL ABOVE	
A.B.	ANCHOR BOLT	
В	COL BELOW	
BRG	BEARING	
С	COL CONT.	
CMU	CONCRETE MASONRY UNIT	
COL	COLUMN	
CONC	CONCRETE	
CONN	CONNECTION	
CONT	CONTINUOUS	
DWG	DRAWING	
EA	EACH	
ES	EACH SIDE	
(E)	EXISTING	
GALV.	GALVANIZED	
LOC	LOCATION	
LVL	LAMINATED VENEER LUMBER	
NTS	NOT TO SCALE	
(N)	NEW	
PT	PRESSURE TREATED	
(R)	REMOVE	
SIM	SIMILAR	
SQ	SQUARE	
T&B	TOP AND BOTTOM	
TYP	TYPICAL	
UNO	UNLESS NOTED OTHERWISE	
WA	WEDGE ANCHOR	

