GENERAL NOTES:

- 1. The notes on the drawings are not intended to replace specifications. in addition to general notes. See specifications for requirements
- 2. Structural drawings shall be used in conjunction with job specifications and architectural, mechanical, electrical, plumbing, and site drawings. Consult, openings, chases, inserts, reglets, sleeves, depressions, and other details not shown on structural drawings.
- 3. All dimensions and conditions must be verified in the field. Any discrepancies shall be brought to the attention of the engineer before proceeding with the affected part of the work.
- 4. Do not scale plans.
- 5. Sections and details shown on any structural drawings shall be considered typical for similar conditions.
- 6. All propietary products shall be installed in accordance with the manufacturers written instructions.
- 7. The structure is designed to be self supporting and stable after the erection is complete. It is the contractor's sole responsibility to determine erection procedures and sequencing to ensure the safety of the building and its components during erection. This includes the addition of necessary shoring, sheeting temporary bracing, guys or tiedowns. Such material shall remain the property of the contractor after completion of the project.
- 8. All applicable federal, state, and municipal regulations shall be followed, including the federal department of labor occupational safety and health act.

DESIGN LOADS:

- 1. Building code: IBC (2009) International Building Code.
- 2. Design Live Loads: (Ground Snow load = 50 psf)
- Roof 45 psf + drift as applicable 3. Design wind loads are based on exposure C using 100 mph basic wind speed.
- 4. Seismic Design Utilizes Analysis Procedure shall be equivelant Lateral Force Proceedure per IBC 2009.

STRUCTURAL STEEL NOTES:

- 1. Structural steel fabrication, erection, and connection design shall conform to AISC "Specification for the design, fabrication, and erection of structural steel"-Ninth edition. 2. Structural steel:
- a) Structural steel shall conform to ASTM A-36.
- b) Structural tubing shall conform to ASTM A-500 GR-B
- c) Structural pipe shall conform to ASTM A-53, TYPE E OR S 3. The fabricator shall design connections for the reactions shown on the drawings or the maximum end reaction that can be produced by a laterally supported uniformly loaded
- beam for each given beam size and span. 4. Field connections shall be bolted using 3/4" diameter ASTM A325 high strength bolts except where field welding is indicated on the drawings.
- 5. All welding shall conform to AWS D1.1-Latest edition. Welding electrodes shall be E70XX. 6. Structural Steel Primer Paint. TNEMEC 10-99 Alkyd rust inhibitive primer, 2.0 to 3.5 mils
- dry thickness, or approved alternate.
- 7. Structural Steel Top Coat for steel permanently exposed to view. TNEMEC series 2 TNEMEC-GLOSS Enamel, 3.0 to 5.0 mils dry thickness, or approved alternate.
- 8. Complete shop drawings and schedules of all structural steel shall be prepared by the contractor and submitted to the engineer for review prior to commencement of that portion of the work. All accessories must be shown on the shop drawings. Submit (2) black line prints to the Engineer/Architect.

TIMBER FRAMING:

- 1. All Timber framing shall be in accordance with the AITC timber construction manual or the national design specification (NDS) - latest edition
- 2. Individual timber framing members shall be visually graded, minimum grade #2Spruce-Pine-Fir (SPF), kiln dried to 19% maximum moisture content.
- 3. Timber shall be southern yellow pine treated with ACQ water borne preservative in accordance with AWPA treatment C1 with 0.40 PCF retainage for items in contact with roofing, masonry or concrete with 0.60 PCF retainage for items in contact with earth.
- 4. Metal connectors shall be used at all timber to timber connections or as noted on the design drawings. All metal connectors in contact with pressure treated timber shall be stainless steel.
- 5. Provide Simpson H2.5A hurricane anchors where timber framing bear on bearing wall and structural beams.
- 6. Nails and screws not specified shall conform with IBC 2009. All nails and screws in contact with pressure treated timber shall be stainless steel.
- 7. Provide $\frac{1}{2}$ " thick APA rated exterior wall sheathing fastened w/ 10d nails @ 4" o.c. at panel edges and 6" o.c. intermediate. Lap sheathing 1'-0" minimum over existing structure (Where applicable).
- 8. Provide $\frac{5}{8}$ " thick APA rated roof sheathing fastened w/ 10d nails @ 6" o.c. at panel edges and intermediate.
- 9. Provide $\frac{3}{4}$ " thick APA rated floor sheathing fastened w/ construction adhesive and 10d ring shank nails @ 6" o.c. at panel edges and intermediate.
- 10. LVL indicates laminated veneer lumber beams manufactured by Boise Cascade or approved eaual.

- the specifications.
- following minimum yield points (Fy):
- 5. Manufacturer of studs, runners, tracks and other framing members shall comply with ASTM C955.
- 6. Framing components and accessories shall be galvanized per ASTM A525 minimum G60
- coatina. exposed threads.
- under Structural Steel Notes.
- stiffening and bracing.
- by the design submitted.
- drawings or as approved by the Engineer of Record.

- 19. Wire tying of members is not permitted.



LIGHT GAGE METAL FRAMING:

1. Acceptable light gage Manufacturer: Dietrich or Marino

2. The extent of the work for the exterior metal stud wall system is detailed on the Architectural drawings. These notes shall be worked in conjunction with those drawings and

3. The following specifications and publications shall be followed.

a) American iron and steel institute cold form design manual, specification for the design of cold form steel structural members - latest edition.

b) American society for testing and materials (ASTM). c) American institute of steel construction Manual of Steel Construction - Latest Edition.

4. Fabrication of light gage steel shall conform with requirements of ASTM A446 with the

a) 16 gage. and heavier - Fy = 50,000 psi (Grade D)

b) 18 gage. - Fy = 33,000 Psi (Grade A) c) 20 gage. — Fy = 33,000 PSI (Grade A)

7. Screws and other attachment devices shall have a protective coating equivalent to

cadmium or zinc plating and shall comply with ASTM A165 Type NS. self tapping screws shall be of the minimum diameter as indicated on the design drawings for each specific attachment detail. Penetration through joined materials shall not be less than three

8. Standard steel shapes, plates, etc. shall conform to the material and finish specifications

9. Provide channel shaped studs, joists, runners, tracks, blocking, clip angles, shoes, reinforcements, fasteners and other accessories recommended by the manufacturer for a complete framing system.

10. The wall system shall be designed for a maximum allowable deflection, either horizontal or vertical, of 1/360 of the span in inches measured from point of attachment to structural steel or concrete including affect of studs only, not sheathing board or facing material. Refer to notes for interior partition design criteria.

11. The design internal pressure shall be 7 psf.

12. The lightguage stud framing subcontractor shall submit shop drawings and design calculations as specified in the previous mentioned specifications and publications. The shop drawings and design calculations shall be prepared and sealed by an engineer licensed to practice in the State of Maine. These drawings shall illustrate the design of the steel stud exterior wall framing and sheathing including steel lintels and all necessary structural steel

13. Securely anchor studs in track to floor construction and overhead structure. Provide slip joints where nonbearing vertical studs meet floor or roof structural members allow for 1/2" of vertical live load deflection at slip joints. Do not install steel studs until all dead load has been applied to the structure.

14. Frame all openings larger than two feet with a minimum of double studs or as determined

15. Welding of framing components will be permitted only where indicated on structural

16. Field cutting of holes in steel framing members shall not be permitted.

17. Touch up all steel bared by welding with zinc rich paint.

18. Splices of axially loaded members shall not be permitted.

20. Complete bearing on supports shall be maintained for studs in axially loaded assemblies.

PRELIMINARY **NOT FOR CONSTRUCTION**

det	designed by: JHL	rev. date	description	appr'd	Hilling	_
dro	drawn by: PJM	A 01/2t	01/26/17 FOR PRICING & PERMIT	JHL	hann	
ch	checked by: JHL			JO LE N	ATE	•
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dat	date: 12/19/2016			HH. RE 42 B B B	MA	
old	plot date: 01/26/2017					
bro	project #: 2014-167A					