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)
   Residential floor ..... 40 psf
   Corridors, stairways, exits ..... 100 psf
3. Design wind loads are based on exposure C using 100 mph basic wind speed.
4. Seismic Design 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 #2 Spruce–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 and/or trusses 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 ½" 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 ⅝" thick APA rated roof sheathing fastened w/ 10d nails @ 6" o.c. at panel edges and intermediate.
9. Provide ¾" thick APA rated floor sheathing fastened w/ construction adhesive and 10d ring shank nails @ 6" o.c. at panel edges and intermediate.
10. LVL indicated laminated veneer lumber beams and posts shall be manufactured by Boise Cascade or approved equal.

PARTIAL ROOF FRAMING PLAN
1/2" = 1'-0"

NOTES:
1. "*" INDICATES: SIMPSON TIE DOWNS (SEE SECTION 2/S2) (TYP. 4 PLACES)
2. "**" INDICATES: SEE STRUCTURAL DRAWING PREPARED BY STRUCTURAL INTEGRITY CONSULTING ENGINEERS, INC. FOR ADDITIONAL INFORMATION REGARDING THESE STRUCTURAL COMPONENTS.
3. "***" INDICATES: CLEAN EXISTING STEEL LINTELS COMPLETELY USING ROTATING WIRE BRUSH FREE OF RUST, DEBRIS, OIL, AND GREASE TO BARE STEEL. COAT W/PRIMER PAINT TNEMEC 10–99 ALKYD RUST INHIBITIVE PRIMER, 2.0 TO 3.5 MILS DRY THICKNESS, OR APPROVED ALTERNATE AND TOP COAT TNEMEC SERIES 2 TNEMEC–GLOSS ENAMEL, 3.0 TO 5.0 MILS DRY THICKNESS, OR APPROVED ALTERNATE. – REINFORCE AS INDICATED ON DWG S1.
4. "E" INDICATES: EXISTING
5. "V.I.F." INDICATES: CONTRACTOR TO "VERIFY IN FIELD"
6. "TYP" INDICATES: TYPICAL
7. "WP" INDICATES: WORK POINT
8. "AFF" INDICATES: ABOVE EXISTING "FINISH (SUB) FLOOR"
9. "(KIPS)" INDICATES: STRUCTURAL GRAVITY BEAM REACTION (kips) + VERTICAL BEAM REACTION DUE TO LATERAL LOAD (kips) AS APPLICABLE TO BE INCORPORATED INTO OVERALL STRUCTURAL DESIGN OF BUILDING PREPARED BY STRUCTURAL INTEGRITY CONSULTING ENGINEERS, INC.

THESE DRAWINGS HAVE BEEN DEVELOPED BY L&L STRUCTURAL ENGINEERING SERVICES, INC. FOR THE TITLED SET ONLY. THE DRAWINGS ARE THE SOLE PROPERTY OF L&L ENGINEERING SERVICES, INC. AND THEY SHALL NOT BE USED, LENT, COPIED OR ALTERED WITHOUT THE WRITTEN CONSENT OF L&L STRUCTURAL ENGINEERING SERVICES, INC.

CITY OF PORTLAND, MAINE — RESURGAM

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 03/05/15

L & L ENGIN
SIX Q S
SOUTH 1
PHONE: (
FAX: (

STATE OF MAINE — JOSEPH H. LEASURE No. 6242 — LICENSED — PROFESSIONAL ENGINEER

rev.	date	description	appr'd
1	07/08/14	MISCELLANEOUS REVISIONS	JHL

designed by: JHL
drawn by: RJW
checked by: JHL
scale: AS NOTED
date: 2/12/2014
plot date: 07/08/2014
project #: 2013–079

BUILDING LOCATED AT
602 CONGRESS STREET
PORTLAND, MAINE

CLOCK TOWER SUPPORT
PARTIAL ROOF FRAMING PLAN

S1