

STRUCTURAL NOTES:

CODE: Comply with the 2009 International Residential Building Code.

DESIGN LOADS:

Dead Loads: Roof = 20.0 psf, Floor = 16.0 psf,
Live Loads: Roof = 45.0 psf (Plus Drift), Office Space = 50.0 psf, Common Areas = 100.0 psf.

Wind:

Wind Speed = 100 mph, Exposure 'C', $I_w = 1.0$
Uplift Loads: Roof framing is subject to an uplift load.
Overlapped Siding = 22 PSF
12' Strip Around Perimeter = 22 PSF
12' Squares At Building Corners = 24 PSF

STEEL:

1. Rolled sections and plates, ASTM A-36, $F_y = 36$ ksi.
2. Structural shapes, ASTM A-36, $F_y = 36$ ksi.
3. Steel Lally Columns: ASTM A313, $F_y = 32$ ksi, 16 gage steel filled w/ 3,000 psi concrete.
4. Steel Pipe Columns: (not lally columns) ASTM A-36, $F_y = 36$ ksi.
5. Bolts and plain anchors: ASTM A 307.
6. Submit shop drawings. Fabricate after Engineers review.

WOOD:

1. Connections:
 - a. Each piece of lumber shall be "S-DRY" and bear the grade stamp of a grading rules agency approved by the American Lumber Standards Committee.
 - b. Double up studs at jacks and under beams.
 - c. Do not notch or drill joists, beams or load bearing studs without approval.
2. Connections:
 - a. Nail wall plywood with 8d common at 6" o.c. at all edges and boundary members and 10" o.c. at intermediate supports.
 - b. Glue floor plywood to all framing members and nail with 8d common at 6" o.c. at all plywood edges and boundary members and 10" o.c. at intermediate supports.
 - c. Nail wall plywood with 10d common nails at 6" o.c. at all edges and boundary members and 12" o.c. at intermediate supports.
3. Structural Lumber:
 - a. Stud: Spruce Pine Fir No. 2 with F_b (positive) = 1200 p.s.i.
 - b. Stud: Spruce Pine Fir No. 2 with F_b (repetitive) = 1200 p.s.i.
 - c. Micro-Lam Beams (LVL): $F_b = 3080$ psi, $F_y = 285$ psi, $E = 2,000$ ksi
4. Plywood:
 - a. Roof Sheathing: C-D INT-APA (PSI-94) with exterior glue; 5/8" with Identification Index 48/24. Lay up with face grain perpendicular to supports. Stagger joints. Each plywood piece to be a minimum of two spans with a minimum width of 1'-0" unless blocking is provided at all joints.
 - b. Sub-flooring: C-D INT-APA (PSI-94) with exterior glue; 3/4" with Identification Index 48/24. Lay up with face grain perpendicular to supports. Stagger joints. Each plywood piece to be continuous over a minimum of two spans with a minimum width of 1'-0" unless blocking is provided at all joints.
 - c. Wall Sheathing: C-D INT-APA (PSI-74) with exterior glue, 1/2" with Identification Index 24/0. All panel edges backed with 2" nominal or wider framing.

SUPPLEMENTARY NOTES:

1. Verify all dimensions and conditions with architectural drawings prior to starting work. Notify the Engineer of any discrepancies or inconsistencies.
2. Provide all necessary temporary bracing, shoring, guying or other means to avoid excessive stresses and to hold structural elements in place during construction.

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BUILDING RENOVATIONS
111 Commercial Street * Portland * Maine
GENERAL NOTES & DETAILS

DESIGNED BY:
Larry Wichroski, P.E.
DRAWN BY:
LAW
JOB NO.:
04913
DATE:
12-20-2013

NOT SHOWN

SHEET:

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