PROJECT DIRECTORY

OWNER:

TIM BELLANCENU

DESIGN PROFESSIONAL:

MACLEOD STRUCTURAL ENGINEERS, PA 90 BRIDGE STREET WESTBROOK, MAINE 04092 TEL. 207-839-0980

GENERAL CONTRACTOR:

CHRISTIAN DARLING, BUILDER PORTLAND, MAINE TEL. 207-409-7048

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF -1. ADDING A SECOND FLOOR IN-LAW APARTMENT OVER THE EXISTING GARAGE AND KITCHEN/ LIVING ROOM OF THE HOUSE. 2. THE FOOTPRINT OF THE BUILDING IS UNCHANGED 3. EXISTING COMPONENTS TO REMAIN EXCEPT AS NOTED HEREIN

GENERAL NOTES:

- 1. THIS PLAN IS DESIGNED TO COMPLY WITH MAINE BUILDING AND ENERGY CODE, 2009 IRC, AND 2009 IECC
- 2. ALL OTHER CODES SHALL BE THE RESPONSIBILITY OF THE OWNER/CONTRACTOR
- 3. ALL MECHANICAL/PLUMBING/ELEVATRICAL DESIGN BY OTHERS 4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING WORK

ENERGY CODE STANDARDS: ZONE 6

- 1. FENESTRATIONS -Windows u-0.35, shq-0.38 -Doors u-0.25
- 1.1
- -R49 (R30 at Sloping Ceiling Areas) 2. ROOF
- 3. EXTERIOR WALLS -R20 (at New Construction) 4. BASEMENT CONC. WALLS (Exist to Remain)

ENERGY CODE NOTES:

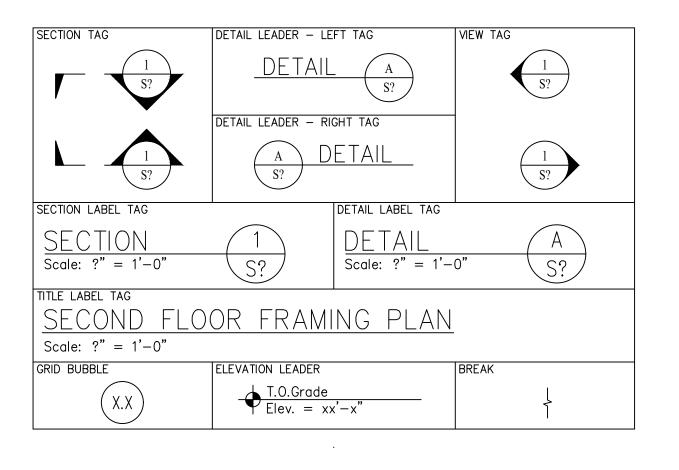
- 1. ALL JOINTS AND PENETRATIONS SHALL BE CAULKED, GASKETED, OR
- COVERED WITH MOISTURE VAPOR-PERMEABLE WRAPPING MATERIAL 2. COMPONENT R-VALUES & U-FACTORS SHALL BE LABELED AS CERTIFIED.
- 3. INSULATION SHALL BE INSTALLED ACCORDING TO MFRS. INSTRUCTIONS, AND IN A MANNER THAT ACHIEVES THE REQ'D R–VALUE
- 4. STAIR, ELEVATOR SHAFT VENTS, AND OTHER OUTDOOR INTAKE AND EXHAUST OPENINGS SHALL BE EQUIPPED WITH MOTORIZED DAMPERS.
- 5. RECESSED LIGHTING FIXTURES INSTALLED IN THE BUILDING ENVELOPE SHALL BE TRYPE IC RATED AS MEETING ASTM E283, AND SEALED OR CAULKED.

CODE REVIEW NFPA 101 Chapter 24 One and Two Family Dwellings 24.2 Means of Egress — One primary means of egress and one secondary means of escape is required from every sleeping room and every living area. This design meets this requirement 24.2.5 Stairs — min. width =36in, 24.2.6 Hallways — min. width 36in 24.2.7 Bulkheads - shall provide direct access to the basement, are exempt from requirements of 24.2.5.1 24.3.4.1 Smoke alarms shall be provided in each sleeping room, outside each separate sleeping area in the immediate vicinity, and on each additional level including attic and basement, and shall be interconnect

per this code 24.3.5.2 Sprinkler system is required per NFPA 13D

SYMBOLS

102	ROOM NUME
2	DOOR NUMB
2	WINDOW NU
2	REVISION NU
2	WALL TYPE



<u>Single Family Residence Code Review</u> 21 STUART STREET PORTLAND, MAINE

CODE REVIEW: IRC2009

SECT 301 DESIGN CRITERIA Design Wind speed = 100mph, therefore design per IRC Design Snow, Pg= 60psf, therefore design per IRC For additional structural design criteria, refer to Structural notes.

SECT 302 FIRE RESISTANT CONSTRUCTION R302.1 Exterior Walls shall comply with Table R302.1 Not within 5ft of property line. R302.7 Under stair protection is required for accessible spaces below stairs R302.9 Wall and ceiling finishes shall meet flame spread <200 and smoke index <450. R302.10 Insulation materials including vapor barriers shall meet flame spread <25 and smoke index <450 except as otherwise provided in this section R302.11 Fireblocking is required at floors and ceilings, top and bottom of stair runs, and openings at vents, pipes, ducts, cables and wires with materials approved in this code

R302.12 Draftstoping at floor/ceilings is not required for this project R302.13 Recessed lights, fans, etc shall be installed per this section R303 LIGHT VENTILATION AND HEATING R303.1 Habitable rooms shall have glazing >8 % of floor area, with 4% openable R303.3 Bathrooms, min. glazing area of 3 sq. ft. with half openable R303.6 Stairways shall have artificial illumination per this section R303.8 Heating shall be provided per the requirements of this code

R304 MINIMUM ROOM AREA requirements have been met in these plans R305 CEILING HEIGHT min. of 7ft has been met R306 SANITATION requirements have been met R307 TOILET, BATH AND SHOWER SPACES comply with this section R308 GLAZING shall comply with the requirements of this section R310 EMERGENCY ESCAPE is required from the basement and sleeping rooms - Complies. R311 MEANS OF EGRESS each unit in these plans has one egress in compliance with this section R311.6 Hallways are > 36 in. wide details within (these are existing) NFPA13D

CHAPTER 6 WALL CONSTRUCTION 602.10.1 Braced Wall Panels Mixed wall types are used First Floor Walls are Existing

CHAPTER 11 ENERGY EFFICIENCY Table N1101.2 Climate zone 6A Windows, U = 0.35, SHGC = NR Doors, U = 0.35Glazed Fenestrations, U = 0.35, SHGC = NR Exterior walls, R=20

Basement, R= 30 at ceiling

Attic, R= 49 (R30 if uncompressed over exterior walls and at Sloped Ceilings)

R311.7 Stairways, handrails, rise and run, nosings, headroom, etc are in compliance with this code refer to stairway sections and R313 AUTOMATIC SPRINKLER SYSTEMS R313.2, new two family dwellings shall have an automatic sprinkler system complying with

R314 SMOKE ALARMS shall be provided in each sleeping room, outside each separate sleeping area in the immediate vicinity, and on each additional level including attic and basement, and shall be interconnect per this code R315 CARBON MONOXIDE ALARMS shall be provided in the immediate vicinity outside sleeping areas

MATERIALS

Δ Δ ·

EARTH

BRICK

WOOD

BATT INSULATION

RIGID INSULATION

CONCRETE

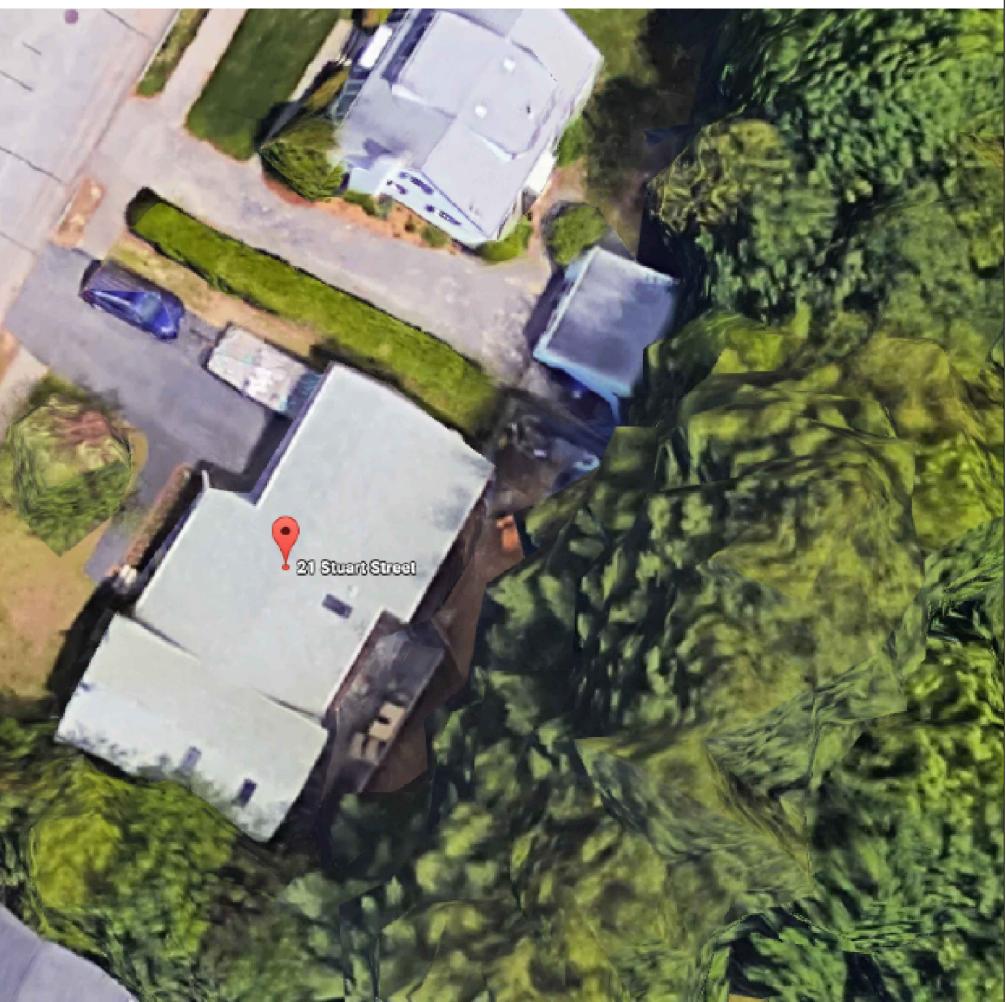
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NUMBER/NAME

NUMBER

NUMBER

21 STUART STREET Portland, Maine



PLOT PLAN

RESIDENTIAL SPECIFICATIONS:

14" ENGINEERED JOIST @ 16"o.c.

2x8 SPF #1/2 JOIST @ 12"o.c.

SHEATHING AS INDICTED (3/4")

2x6 Studs as Indicated (16"oc)

Sheathing as Indicated (7_{16} ")

Siding/Finish as Indicated

¹/₂" Gypboard as Indicated

Rafters/Trusses as Indicated

Ice & Water Shield at Eaves/Valleys

235# Asphalt Shingles as Indicated

Sheathing as Indicated $(\frac{5}{8})$

FLOOR SYSTEM:

EXTERIOR WALLS:

INTERIOR WALLS:

ROOF SYSTEM:

INSULATION:

15# Underlayment

Exterior Walls R-20

Soffit – 2"Contin. Strip

Ridges - Contin. Shingle

Circulation Vents Between

Rafters/Trusses

BEAMS/HEADERS:

INTERIOR FINISHES:

At Walls/Ceilings

Flooring As Indicated

be Per Contract

Paint/Stain As Indicated

(3)2x6 Max. 40" Span

(3)2x10s Max 76" Span

Min. 4" Bearing all Beams

 $\frac{1}{2}$ " Gypboard or As Indicated

Note: Items not Indicated Shall

Attic Cap R-49

Sills -Existing

VENTILATION:

2x4 Studs @ 16"oc

Air Infiltration Wrap

	DRAWING LIST:					
	A-1 A-2 A-3	COVER SHEET FLOOR PLANS ELEVATIONS FRAMING PLANS SECTIONS & NOTES				
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			and Use of these drawings S	by others without writte MACLEOD	se of: en consent is prohibited. PA	
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