

- 3. WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO
- 4. THE CONTRACTOR SHALL, PRIOR TO WORK, REVIEW WITH DESIGN TEAM AND OWNER ALL ASPECTS OF SITE ACCESS, WORK SCHEDULE, AND COORDINATION WITH OTHERS TO ENSURE SMOOTH PROJECT FLOW.
- 5. NOTIFY OWNER AND ENGINEER OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
- 6. THE INSTALLATION AND OR REMOVAL OF PROPOSED MATERIALS SHALL NOT DAMAGE EXISTING COMPONENTS.
- 7. ANY MODIFICATION OR ALTERATION OF THESE CONSTRUCTION DOCUMENTS OR CHANGES IN CONSTRUCTION FROM THE INTENT OF THESE DRAWINGS BY THE CONTRACTOR WITHOUT WRITTEN APPROVAL OF THE ENGINEER SHALL REMOVE ALL PROFESSIONAL AND LIABILITY RESPONSIBILITY OF THE ENGINEER.
- 8. DO NOT SCALE FROM THE DRAWINGS.
- STRUCTURAL ENGINEERING GENERAL REQUIREMENTS
- 1. COORDINATE CONSTRUCTION TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK.
- 3. IDENTIFY DEVIATIONS FROM CONTRACT DOCUMENTS ON SUBMITTALS. REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. MARK WITH APPROVAL STAMP BEFORE SUBMITTING
- 5. SUBMIT SAMPLES FINISHED AS SPECIFIED AND PHYSICALLY IDENTICAL WITH PROPOSED
- 6. DELIVER, STORE, AND HANDLE PRODUCTS USING MEANS AND METHODS THAT WILL PREVENT DAMAGE, DETERIORATION, AND LOSS, INCLUDING THEFT. COMPLY WITH MANUFACTURER'S
- 7. SCHEDULE DELIVERY TO MINIMIZE LONG-TERM STORAGE AT PROJECT SITE AND TO PREVENT OVERCROWDING OF CONSTRUCTION SPACES. DELIVER PRODUCT IN MANUFACTURER'S ORIGINAL SEALED CONTAINER OR PACKAGING, COMPLETE WITH LABELS AND INSTRUCTIONS FOR HANDLING, STORING, UNPACKING, PROTECTING, AND INSTALLING.
- 8. STORE PRODUCTS THAT ARE SUBJECT TO DAMAGE BY THE ELEMENTS UNDER COVER IN A WEATHERTIGHT ENCLOSURE ABOVE GROUND, WITH VENTILATION ADEQUATE TO PREVENT CONDENSATION.
- 9. WHERE DRAWINGS SPECIFY A SINGLE PRODUCT OR MANUFACTURER, PROVIDE THE ITEM INDICATED THAT COMPLIES WITH REQUIREMENTS.

STRUCTURAL DESIGN CRITERIA

WRITTEN INSTRUCTIONS.

TO ENGINEER.

- 1. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE MAINE UNIFORM BUILDING AND ENERGY CODE.
- 2. DECK AND STAIR LOADS: A. FLOOR FRAMING AND STAIRS 100 PSF B. LATERAL LOAD ON RAILINGS - 200 POUNDS OR
- 3. SNOW LOAD IS BASED UPON A GROUND SNOW LOAD OF 60 PSF, NET FLAT ROOF SNOW LOAD IS 46.2 PSF.
- 4. WIND LOAD: PER IBC SECTION 1609.0/ASCE 7-02 CHAPTER 6
- BASIC WIND SPEED, 3 SECOND GUST 100 mph IMPORTANCE FACTOR Iw 1.0 EXPOSURE CATEGORY BUILDING CLASSIFICATION BASIC WIND PRESSURE 20 pst COMPONENT AND CLADDING PRESSURE +22.7, -35.8 psf
- SEISMIC LOAD: IBC SECTION 1615.0, EARTHQUAKE DATA PER SECTIONS 1616.3: SEISMIC USE GROUP OCCUPANCY IMPORTANCE FACTOR. le
- SHORT-PERIOD ACCELERATION Ss 1.0 SECOND ACCELERATION S1
- SITE CLASSIFICATION SOIL TYPE
- MAXIMUM CONSIDERED EQ. ACCEL. PARAMETER Fa MAXIMUM CONSIDERED EQ. ACCEL. PARAMETER Fv SHORT PERIOD ACCELERATION (ASCE 9.4.1.2.4-1, Sms)
- 1.0 SECOND ACCELERATION (ASCE 9.4.1.2.4-1, Sm1) SHORT PERIOD DESIGN SPECTRAL RESPONSE ACC. 1.0 SECOND DESIGN SPECTRAL RESPONSE ACC.
- b. PROVIDE PROTECTION MEMBRANE AT LOCATIONS SHOWN ON THE DRAWINGS AND WHERE Z-MAX PROTECTION

GENERAL WOOD FRAMING NOTES

EDGE ON ALL WINDOWS, TYP.

- 1. STRUCTURAL LUMBER: -NO. 2 SPRUCE-PINE-FIR OR BETTER. 19% MAX MOISTURE CONTENT.
- -PRESSURE TREATED LUMBER: NO. 2 OR BETTER SOUTHERN YELLOW PINE. -LAMINATED VENEER LUMBER (LVL): EQUIVALENT TO VERSA-LAM 2.0 3100 BY BOISE ENGINEERED PRODUCTS.
- LUMBER SIZES SHOWN ARE NOMINAL SIZES.
- 2. DESIGN CODE: NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION BY THE AMERICAN FOREST & PAPER ASSOCATION.

7. EXTERIOR PAVING AND GRADE SHALL SLOPE AWAY FROM BUILDING TO DRAINAGE WAYS.

8. NOTIFY OWNER/STRUCTURAL ENGINEER BEFORE PENETRATING OR MODIFYING JOISTS,

10. INSTALL WINDOWS & FLASHING FOLLOWING MANUFACTURERS INSTRUCTIONS WITH

11. PROVIDE A CONTINUOUS BEAD OF SEALANT IN ALL JOINTS IN BUILDING, INCLUDING:

CONDITIONS SO THAT NO MOISTURE, VAPOR OR GAS MAY PASS THROUGH STRUCTURE

14. PROVIDE PRE-MOULDED ISOLATION STRIP BETWEEN ALL FOUNDATION WALLS AND

15. WOOD BLOCKING IN CONTACT WITH CONCRETE OR STONE TO BE PRESERVATIVE

19. CONTRACTOR TO BRING TO THE ATTENTION OF THE ARCHITECT ANY CONDITION

DIFFERENT FROM THOSE SHOWN ON THE DRAWINGS, AND SHALL BRING TO THE

ATTENTION OF THE ARCHITECT ANY CONDITION THAT PREVENT CONTRACTOR'S

22. SEAL ALL OUTLETS & PENETRATIONS IN VAPOR RETARDER W/TAPE COMPLIANT

23. CONTRACTOR TO CONDUCT VISUAL INSPECTION OF SHEATHING TO SPOT AND SEAL

24. USE SPRAY FOAM INSULATION TO SEAL AIR GAPS IN HARD-TO-REACH PLACES THAT ARE

25. PROVIDE METAL DRIP EDGES ON ALL ROOF EAVES, TYP. AND METAL FLASHING W/DRIP

21. PROVIDE PAPERLESS, MOISTURE RESISTANT GWB IN BATHROOMS, TYP.

PENETRATIONS, INCLUDING NAIL HEAD PENETRATIONS IN VAPOR BARRIEF

TREATED BY PRESSURE PROCESS. SEAL CUTS IN "PT" WOOD WITH FIELD APPLIED

17. HEATING SYSTEM TO BE PROFORMANCE BASED, DESIGN BY MECHANICAL

12. THE ROOF BOTTOM EDGE 3'-0" WIDE SHALL HAVE A WATERPROOF MEMBRANE LIKE "ICE

18. ELECTRICAL LIGHTS & OUTLETS TO BE INSTALLED BY CERTIFIED ELECTRICIAN. OWNER

ENVELOPE, PERIMETER, ISOLATION JOINTS, COLUMN PIPE, ALL PENETRATIONS AND

13. PROVIDE DOUBLE STUDS AT EACH SIDE OF NORTH WINDOW FRAMES.

BEAMS, COLUMNS OR OTHER STURCUTRAL MEMBERS.

STICK-ON FLASHING TO PROVIDE WATERPROOF SEAL.

PRESERVATIVE. USE STAINLESS STEEL FASTENERS.

TO APPROVE BEFORE PURCHASING.

W/VAPOR RETARDER MANUFACTURER.

16. GENERAL CONTRACTOR SHALL COORDINATE ALL UTILITIES.

CONTRACTOR. OWNER TO APPROVE BEFORE PURCHASING.

COMPLETION OF THE WORK AS SHOWN ON THE DRAWINGS

20. TAPE ALL GYPSUM SEAMS AND PAINT PER FINISH SCHEDULE.

UNLIKELY TO BE FILLED DURING APPLICATION OF INSULATION.

9. SEE STRUCTURAL NOTES.

& WATER SHIELD.

CONCRETE SLAB.

- 3. FASTENERS: COMPLY WITH RECOMMENDED FASTENING SCHEDULE OF THE 2009 INTERNATIONAL BUILDING CODE, UNLESS OTHERWISE SHOWN ON DRAWINGS. 4. NAILING REQUIREMENTS FOR PLYWOOD FLOOR DECKS, ROOF DECK AND SHEATHING: PROVIDE 8d COMMON NAILS FOR ROOF & WALLS. 8d ROSIN COATED RING SHANK NAILS FOR FLOORS AS FOLLOWS:
- a. 6" O.C. ALONG ALL FLOOR PANEL EDGES b. 12" O.C. ALONG INTERMEDIATE MEMBERS
- 5. SPIKE TOGETHER ALL FRAMING MEMBERES WHICH ARE BUILT-UP USING 2 ROWS OF 16d NAILS @ 12" O.C. STAGGERED. 6. PROVIDE GALVANIZED METAL JOIST HANGERS AT FLUSH-FRAMED CONNECTIONS. IF SIZES ARE NOT
- SHOWN ON PLANS FOR SINGLE 2x'S PROVIDE HANGERS EQUAL TO SIMPSON U210 OR LU210. 7. PROVIDE GALVANIZED METAL RAFTER TIES EQUAL TO SIMPSON H 2.5 BETWEEN RAFTERS AND SUPPORTING MEMBERS, UNLESS OTHERWISE SHOWN. 8. PROVIDE MINIMUM OF (2) 2x10 HEADRES OVER OPENINGS 4'-0" OR WIDER IN BEARING WALLS. PROVIDE (2) 2x8 MINIMUM IN OPENINGS LESS THAN 4'-0", UNLESS OTHERWISE NOED. 9. PROVIDE DOUBLE TOP PLATE IN ALL EXTERIOR WALLS AND ALL BEARING WALLS. STAGGER TOP PLACE SPLICES IN EXTEIOR WALLS 4'-0" AND PROVIDE AT LEAST 8-16d NAILS EACH SIDE OF SPLICE.
- 10. PROVIDE PRESSURE TREATED LUMBER FOR ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE. 11. PROVIDE MIN. OF (2) 2x STUDS AT ENDS OF ALL BUILT-UP BEAMS OR HEADERS UNLESS SHOWN OTHERWISE.
- 12. WHERE POST CAPS OR BASES ARE NOT SHOWN ON DRAWINGS, PROVIDE THE FOLLOWING: -POST FRAMES UNDER OR OVER BEAMS: SIMPSON LPC SERIES POST CAPS FOR CAPS & BASES. -POST FRAMING ONTO SILLS: SIMPSON BOC 60 OR BC 40 BASES.
- 13. ROOF, FLOOR AND WALL SHEATHING. APA RATED SHEATHING, EXPOSURE 1 OR STRUCTURAL I OR II RATED SHEATHING, EXPOSURE 1. a. ROOF: SPAN RATING 32/16 MIN. THICKNESS 19/32"
- b. FLOORS: SPAN RATING 32/16" MIN. THICKNESS 23/32" c. WALLS: MIN. THICKNESS 15/32"
- 14. PROVIDE FULL-DEPTH BLOCKING AT ENDS AND INTERIOR SUPPORTS OF ALL JOISTS AND RAFTERS WHERE JOISTS AND RAFTERS FRAME OVER SUPPORTS. 15. PROVIDE 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 12" EMBEDMENT INTO FOUNDATION FOR
- ALL SILL PLATES. PROVIDE MINIMUM OF 2 BOLTS PER SECTION OF PLATE. ONE BOLT AT 12" FROM END OF EACH SECTION OF PLATE, WITH INTERMEDIATE BOLTS. PLACED NOT MORE THAN 6'-0" ON CENTER. 16. PROVIDE SOLID BLOCKING @ ENDS OF ALL WOOD BEAMS TO PREVENT ROTATION OF BEAM. 17. CONNECTIONS AT PRESSURE TREATED (P.T. OR PT) WOOD: a. PROVIDE EQUIVALENT TO Z-MAX OR HOT DIPPED GALVANIZED CONNECTORS BY SIMPSON
- STRONG-TIE W/STAINLESS STEEL FASTENERS OR FASTENERS GALVANIZED PER ASTM A153
- MEMBRANE= GRACE VYCOR DECK PROTECTOR.





1 LOOKING UP BRACKETT STREET

ROUGH CARPENTRY MATERIALS

EXPOSED FINISH TIMBERS

<u>COMPOSITE LUMBER:</u>

STEEL

(EXPOSED EXTERIOR POSTS)

## SECOND FLOOR WITH A NEW STAIR LEADING TO THE ROOF DECK. ADDRESS: 31 BRACKETT STREET CBL: 044 E006001 ZONE: R-6 YEAR BUILT: 1860 AREA: 2,390 SF EXISTING - 785 RENOVATED + 255 SF ROOF DECK LOT: 2,144 SF USE: TWO FAMILY HOME

T-1.1 |TITLE SHEET

A-2.1 ELEVATIONS

A-1.1 PLANS

APPLICABLE CODES IRC 2009

IEBC 2009 IECC 2009 NFPA 101-2009 NFPA 1 - 2006

#

ZONING - R-6 -MIN. LOT SIZE: 2,000 SF -MIN. ROAD FRONTAGE: 20'-0" -MAX. BUILDING HEIGHT: 45'-0" -MIN. FRONT SETBACK: 5'-0" OR AVE. -MIN. REAR SETBACK: 10'-0" -MIN. SIDE SETBACK: 5'-0"

-MAX. IMPERVIOUS SURFACE TO LOT AREA RATIO: 60% -LANDSCAPED OPEN SPACE: 20%

-BUILDING USE: TWO-FAMILY DWELLING (R-2) -CONSTRUCTION TYPE: VB (IBC, 601) -HEIGHT: ACTUAL 37'-0" TO PEAK OF ROOF ACCESS STAIR -STORIES: 2.5 -HANDRAIL HEIGHT: 34-38" AFF (R311.7.7.1)

-RISER HEIGHT: 7.75" MAX (R311.7.4.1) -TREAD: 10" MIN. (R311.7.4.2) -MIN. WIDTH: 36" (R311.7.1) -EGRESS: ONE EGRESS DOOR PER UNIT (R311.2)

-SAFETY (TEMPERED) GLAZING REQUIRED -IN ALL DOORS -IN BATHROOMS

-GLAZING W/IN 24" OF DOOR SWING IF SILL IS LESS THAN 60" AFF WALKING SURFACE -GLAZING ADJACENT TO RAMPS OR STAIRS (W/IN 36" AFF OF HORIZONTAL WALKING SURFACE) -GLAZING W/A SILL HEIGHT OF LESS THAN 18" AFF

-LEVEL II ALTERATION (701.1) SECTION 701 OF IEBC (701.3)

LIFE SAFETY - NFPA 101 (CHAPTER 24) -CHAPTER 24 - ONE & TWO-FAMILY DWELLINGS (24.1.1.1) -EACH SLEEPING AND LIVING AREA SHALL BE PROTECTED BY A PRIMARY AND SECONDARY MEANS OF EGRESS (24.2.2.1.1) -SECONDARY MEANS OF EGRESS OPTIONS: -WINDOW OF 5.7 SF OPERABLE AREA OR LARGER (24.2.2.3.1)

-WINDOW OR DOOR OPENING DIRECTLY TO AN EXTERIOR BALCONY (24.2.2.3.1(3)) IECC 2009 -CLIMATE ZONE 6 -CEILING: R-30 (IECC 402.2.2) -WALL: R-20 -FLOOR: R-30 -BASEMENT: R-15/19 -WINDOWS: U-0.35 -SKYLIGHT: U-0.6

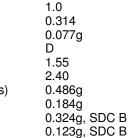
AL AND LOCAL SAFETY REQUIREMENTS.	
SIBLE FOR THE SAFETY OF ADJACENT	

BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE INCLUDED.

2. CONDUCT PROGRESS MEETINGS AT SITE AT WEEKLY INTERVALS OR AS NECESSARY

MATERIAL OR PRODUCT. INCLUDE NAME OF MANUFACTURER AND PRODUCT NAME ON LABEL.

50 POUNDS PER LINEAL FOOT ANY DIRECTION.



CONVENTIONAL LUMBER: S-P-F-s NO. 2 OR BETTER 2. ALL LEDGER BOLTS EXTENDING THROUGH PRESSURE-TREATED LUMBER SHALL BE STAINLESS

1. DIFFERING LUMBER AND COMPOSITE LUMBER MATERIALS ARE SPECIFIED AT VARIOUS

PRESSURE-TREATED LUMBER: SOUTHERN YELLOW PINE NO. 1 GRADING

LOCATIONS. MATERIAL GRADES SHALL CONFORM TO THE FOLLOWING SPECIES AND GRADES:

PERIMETER SILLS (WALL SILLS): PRESSURE-TREATED SOUTHERN YELLOW PINE, SUITABLE

(INTERIOR FRAMING AS NOTED).

FOR GROUND CONTACT PLACED ON TOP OF CONCRETE.

VERSA-LAM BY BOISE-CASCADE, Fb=3,100 psi, E=2000ksi

ANTHONY POWER-PRESERVED BEAMS FOR EXTERIOR USE.

PRESSURE-TREATED SOUTHERN YELLOW PINE.

3. ALL LUMBER AND TIMBER FRAMING MATERIAL SHALL BE STORED IN A PROTECTED, DRY AREA OFF OF THE GROUND AND GROUND FLOOR SURFACES. STORE MATERIAL OUT OF DIRECT SUNLIGHT TO PREVENT DIFFERENTIAL DRYING AND WARPING.

4. JOIST HANGERS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE, INC. WHERE NOTED, HANGERS SHALL BE STAINLESS STEEL, ATTACHED WITH STAINLESS STEEL 10d x 1 1 /2" HANGER NAILS INSTALLED IN PREDRILLED HOLES AS REQUIRED OR DIRECTED BY ENGINEER. REFER TO PLAN SHEETS AND SCHEDULE FOR HANGERS AND LOCATIONS.

5. REFER TO STRUCTURAL DRAWINGS FOR APPROPRIATE SELF-DRIVING FASTENERS, EITHER MANUFACTURED BY FASTENMASTER, INC. OR BY GRK, INC. INSTALL FASTENERS AS INDICATED ON DRAWINGS.

6. DO NOT NOTCH JOISTS IN THE MIDDLE-THIRD OF THEIR SPANS, AND PROVIDE TAPERED CUTS AT ENDS OF JOISTS WHERE NOTED, TO PREVENT SPLITTING OF LUMBER AT STRESS

7. FLOOR SHEATHING SHALL BE ADVANTEK SHEATHING, IN THICKNESS INDICATED ON DRAWINGS. GLUE AND NAIL FLOOR DECKING TO SHEATHING AS NOTED. PROVIDE 1/8" SPACING BETWEEN SHORT ENDS OF PANELS AS REQUIRED BY MANUFACTURER.

## ABBREVIATIONS ADA | Americans with disabilities act AFF | Above finish floor DWG | Drawing EL | Elevation GA | Gauge GWB | Gypsum wall board EQ | Equal GPF | Gallons per flush (toilets) FE | Fire extinguisher HVAC | Heating, ventilation and air conditioning LM | Lumens MIN | Minimum NTS | Not to scale PSI or PSF | Pounds per square inch or pounds per square foot, pressure or strength UNO | Unless noted otherwise R-Value | Thermal resistance RCP | Reflected ceiling plan SHG | Solar Heat Gain SF | Square foot SIM | Similar STRUCT. | Structural T.O. | Top of TYP. | Typical VIF | Verify in field VT | Visual transmittance, a measurement of transparency/translucency WC | Water closet, otherwise known as a bathroom

## CONCENTRATION POINTS.

SHEET LIST	
SHEET	
HEET	

A-3.1 SECTIONS AND PERSPECTIVES

PROJECT DESCRIPTION: RENOVATION OF EXISTING ATTIC SPACE IN OWNER-OCCUPIED, TWO-UNIT BUILDING (LEVEL II ALTERATION) TO ADD MASTER BEDROOM SUITE (BEDROOM, SITTING AREA, BATHROOM & ROOF DECK). EXISTING TWO STAIRWAYS TO REMAIN PROVIDING EGRESS FROM THIRD FLOOR TO

-ALL NEW CONSTRUCTION ELEMENTS, COMPONENTS, SYSTEMS AND SPACES SHALL COMPLY WITH

Name 🧉

(101)

SYMBOLS ′ 1/4" = 1'-0"

Elevation

ELEVATION

DOOR TAG

WALL TAG

CENTERLINE





View Name VIEW TITLE / 1/8" = 1'-0"



Room name

101

150 SF

REVISION

ROOM NAME, NUMBER & SF

SPOT ELEVATION

WINDOW TAG

NORTH SYMBOL

TRACIE . REED No. 4139 Ω  $\bigcirc$ S TION Ш 0 ЦЦ TRUC<sup>-</sup> Ζ 0 ົດ ŽМ SNO  $\bigcirc$ £ Ŭ Ω 3 Ш D D D Ш Z 3  $\mathcal{O}$ DEXTROUS CREATIVE PORTLAND, ME 04102 TRACIE REED, ARCHITECT NCARB, AIA, LEED AP BD+C traciereed@dextrouscreative.com 207.409.0459 (cell) STRUCTURAL ENGINEER AL HODSON, III, P.E. **RESURGENCE ENGINEERING** 61 INDIA STREET, UNIT 7 PORTLAND, MAINE 04101 Al@resurgenceengineering.com 207.615.9985 (CELL) No. Description Date TITLE SHEET

Project number 14-18 Date 03.11.16 Drawn by TJR Checked by TJR \_ Scale 1/4" = 1'-0"