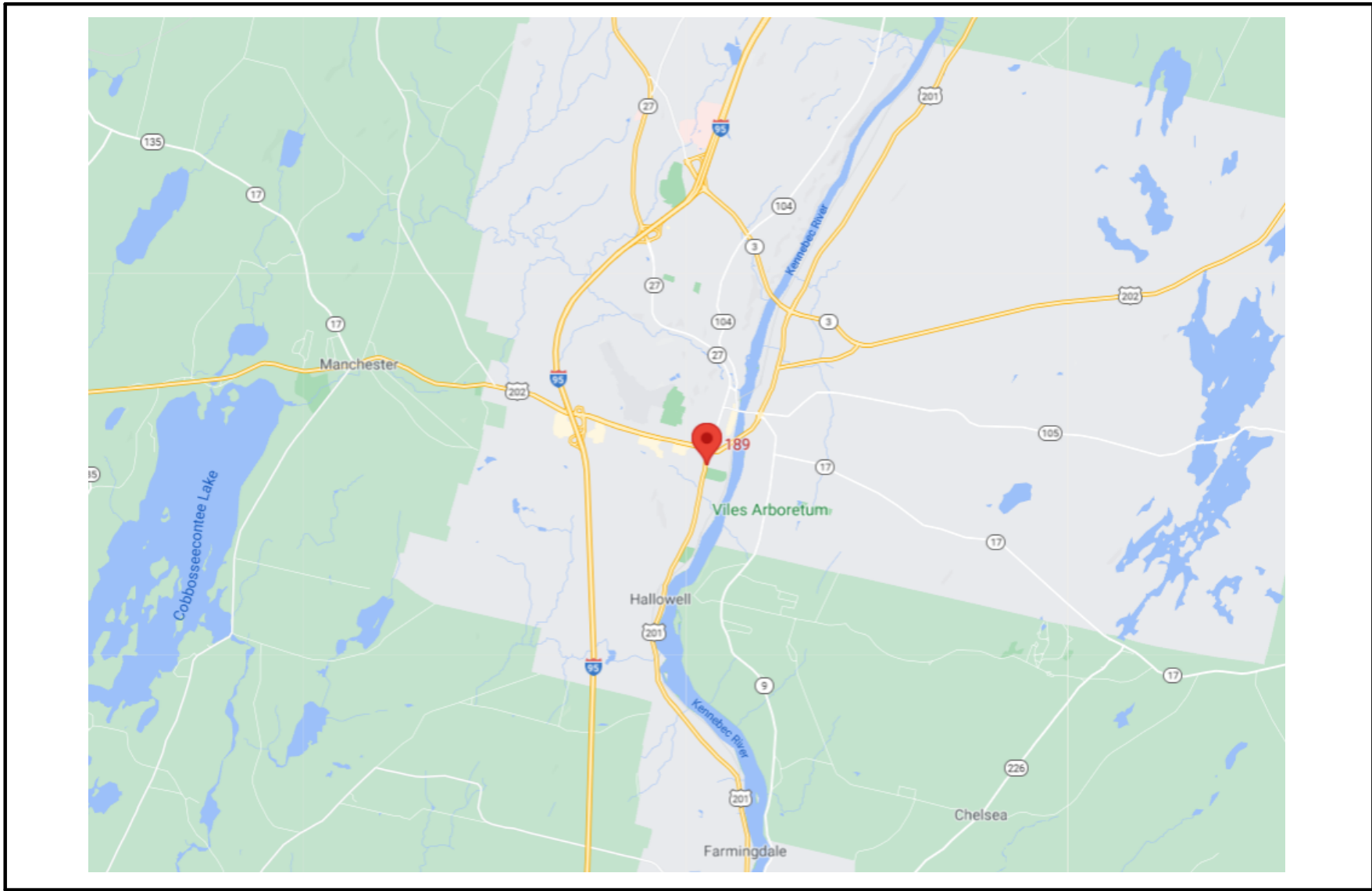


# Smith-Merril House Reroofing

## BUREAU of GENERAL SERVICES

187-189 STATE STREET, AUGUSTA, MAINE

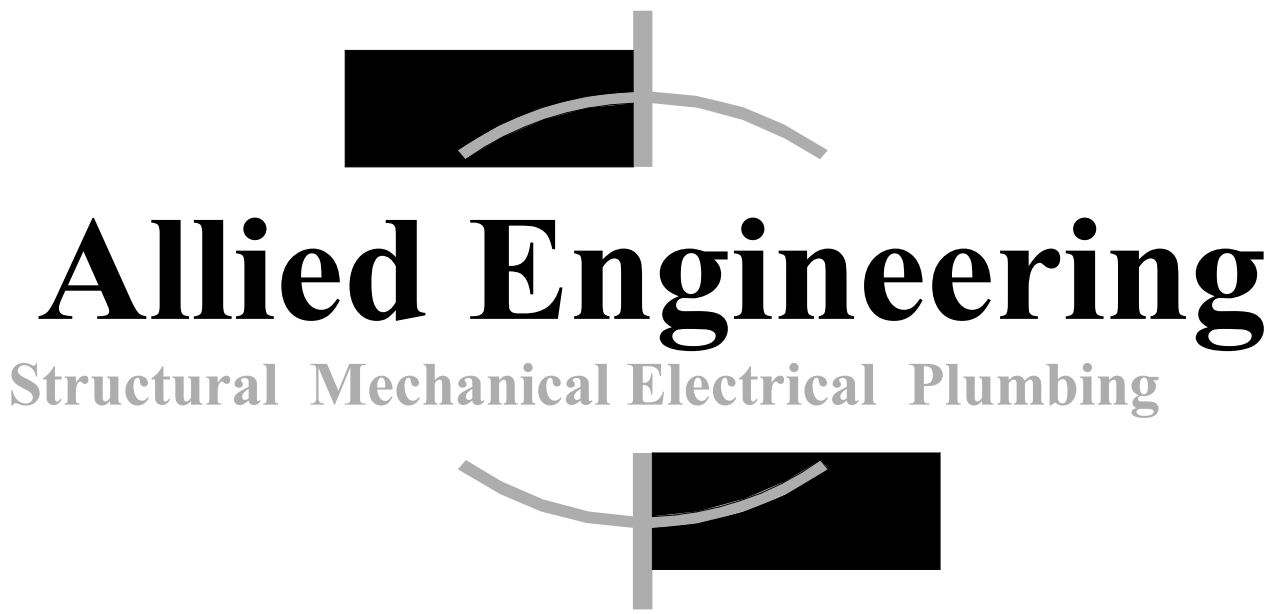
ALLIED PROJECT #21032



LOCATION MAP

ISSUED FOR BID  
JUNE 7, 2021  
NOT FOR CONSTRUCTION

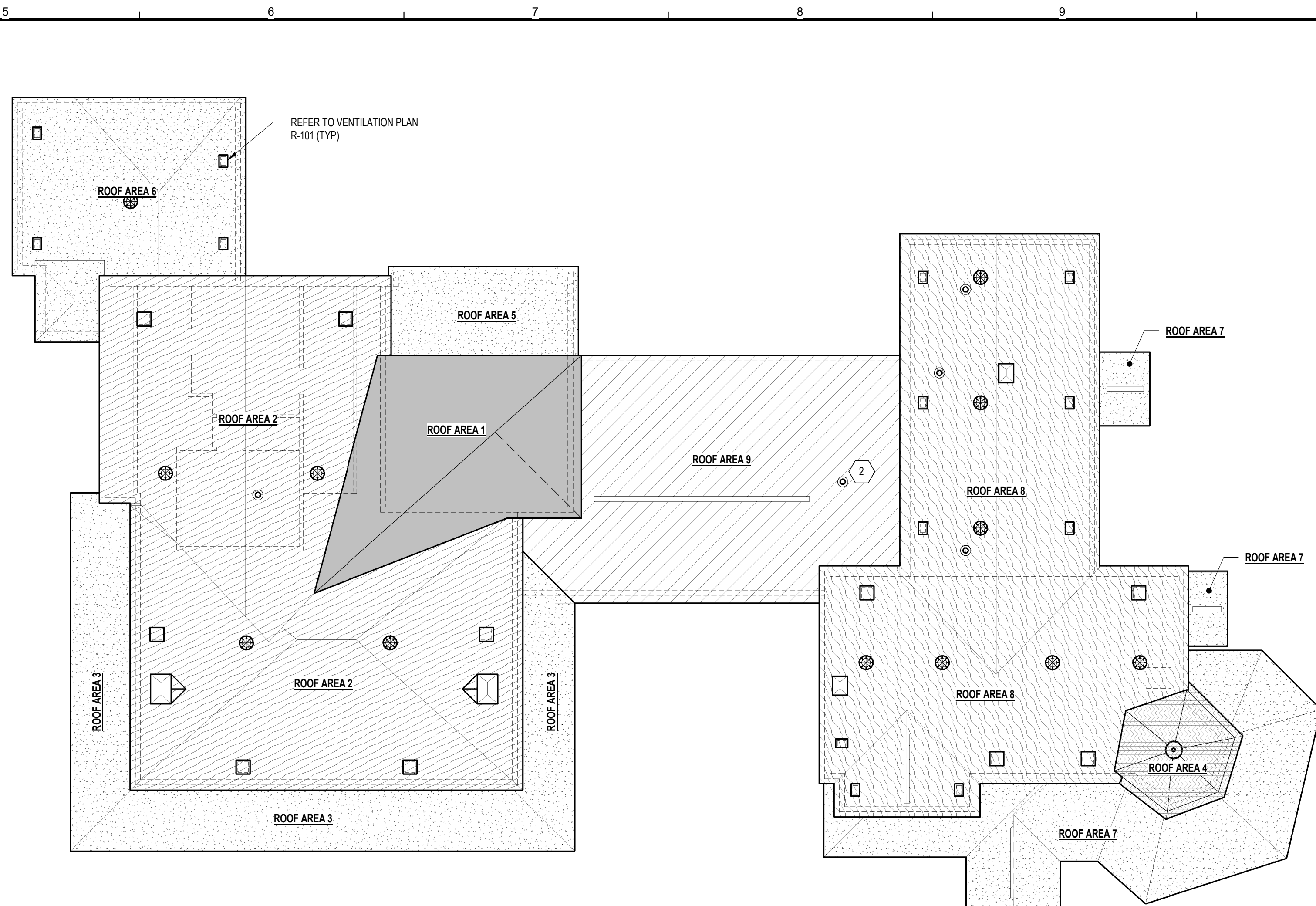
DRAWING STATUS LIST		ISSUE	DATE						
			DESCRIPTION	ISSUED FOR BID					
DRAWINGS									
SHEET No.	SHEET TITLE								
G-000	COVER SHEET								
RD-100	ROOF DEMOLITION PLAN								
R-100	ROOF APPLICATION PLAN								
R-101	ROOF VENTILATION AND INSULATION PLANS								
SF-100	STRUCTURAL - ROOF FRAMING PLAN								



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E5	ROOF APPLICATION PLAN
1/8" = 1'-0"	

**ROOF AREA 1 - (APPROXIMATE TOTAL 350 SF)**

## ROOFING APPLICATION

1. PROVIDE EPDM, BLOCKING, METAL TRIM, IN ITS ENTIRETY.
2. PROVIDE 5-1/2" POLYISOCYANURATE INSULATION TO PLYWOOD ROOF DECK
3. INSTALL PIPE BOOTS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

**ROOF AREA 2 - (APPROXIMATE TOTAL 2,000 SF)**

## ROOFING APPLICATION

1. PROVIDE 1/2" PLYWOOD SHEATHING TO ALL ROOF SURFACES.
2. PROVIDE ICE & WATER SHIELD TO ALL ROOF SURFACES TO RECEIVE SHINGLE ROOFING
3. PROVIDE 3-TAB ROOF SHINGLES, METAL DRIP EDGE AND RAKE METAL.
4. INSTALL PIPE BOOTS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. REPLACE WOOD FASCIA WHERE DETERMINED TO BE DETERIORATED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
6. INSTALL GRAVITY VENTILATION SYSTEM COMPONENTS TO ROOF AND GABLE LOCATIONS NOTES.

**ROOF AREA 3 - (APPROXIMATE TOTAL 500 SF)**

## ROOFING APPLICATION

1. PROVIDE ICE & WATER SHIELD TO ALL ROOF SURFACES TO RECEIVE SHINGLE ROOFING.
2. PROVIDE 3-TAB ROOF SHINGLES, METAL Drip EDGE AND RAKE METAL.
3. REPLACE WOOD FASCIA WHERE DETERMINED TO BE DETERIORATED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
4. INSTALL SOFFIT VENT STRIPS AND HALF-UP RIDGE VENTS AT WALL INTERSECTION.
5. AT SIDEWALL, LIFT EXISTING EPDM MEMBRANE FROM SIDE WALL APPLICATION SUFFICIENT TO INSTALL HALF-UP SIDEWALL RIDGE VENTS. ADHERE MEMBRANE TO WALL AND VENT CAP AS NOTED

**ROOF AREA 4 - TOWER ROOF AND LOWER BAND (APPROXIMATE TOTAL 200 SF)**

## ROOFING APPLICATION

1. PROVIDE ICE & WATER SHIELD TO ALL ROOF SURFACES TO RECEIVE SHINGLE ROOFING.
2. PROVIDE 3-TAB ROOF SHINGLES.
3. PROVIDE 3-TAB ROOF SHINGLES AND METAL DRIP EDGE
4. REPLACE WOOD FASCIA WHERE DETERMINED TO BE DETERIORATED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
5. INSTALL LEAD COATED COPPER CAP AT SPIRE.

ROOF AREA 5 - (APPROXIMATE 200 SF)

## ROOFING APPLICATION

1. PROVIDE ICE & WATER SHIELD TO ALL ROOF SURFACES TO RECEIVE SHINGLE ROOFING.
2. PROVIDE 3-TAB ROOF SHINGLES, METAL Drip EDGE AND RAKE METAL.
3. REPLACE WOOD FASCIA WHERE DETERMINED TO BE DETERIORATED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
4. INSTALL SOFFIT VENT STRIPS AND HALF-UP RIDGE VENTS AT WALL INTERSECTION.
5. AT SIDEWALL, LAY EXISTING EPM MEMBRANE FROM SIDE WALL APPLICATION SUFFICIENT TO INSTALL HALF-UP SIDEWALL RIDGE VENTS. ADHERE MEMBRANE TO WALL AND VENT CAP AS NOTED

**ROOF AREA 6 - (APPROXIMATE 400 SF)**

## ROOFING APPLICATION

1. PROVIDE ICE & WATER SHIELD TO ALL ROOF SURFACES TO RECEIVE SHINGLE ROOFING.
2. PROVIDE 3-TAB ROOF SHINGLES AND DRIP EDGE METAL.
3. REPLACE ROOF FASCIA WHERE DETERMINED TO BE DETERIORATED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
4. INSTALL SOFFIT GRAVITY VENTILATION SYSTEMS.

**ROOF AREA 7 - (APPROXIMATE 600 SF)**

## ROOFING APPLICATION

1. PROVIDE ICE & WATER SHIELD TO ALL ROOF SURFACES TO RECEIVE SHINGLE ROOFING.
2. PROVIDE 3-TAB ROOF SHINGLES, METAL Drip EDGE AND RAKE METAL.
3. REPLACE WOOD FASCIA WHERE DETERMINED TO BE DETERIORATED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
4. INSTALL SOFFIT VENT STRIPS, RIDGE VENTS, AND HALF-UP RIDGE VENTS AT WALL INTERSECTION AT ALL ROOF EAVES. REQUIRE CLAPBOARD SIDING TO FACILITATE HALF-UP SIDEWALL RIDGE VENT INSTALLATION. PROVIDE ICE & WATER SHIELD UP BEHIND WOOD CLAPBOARD RIDGE MINIMUM 8' AND DOWN OVER VERTICAL VENT FLASHING STRIP PRIOR TO REAPPLICATION OF THE CLAPBOARD SIDING.

**ROOF AREA 8 - (APPROXIMATE TOTAL 1,800 SF)**

## ROOFING APPLICATION

1. PROVIDE 1/2" PLYWOOD SHEATHING TO ALL ROOF SURFACES.
2. PROVIDE ICE & WATER SHIELD TO ALL ROOF SURFACES TO RECEIVE SHINGLE ROOFING
3. PROVIDE 3-TAB ROOF SHINGLES, METAL DRIP EDGE AND RAKE METAL.
4. INSTALL PIPE BOOTS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. REPLACE WOOD FASCIA WHERE DETERMINED TO BE DETERIORATED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
6. INSTALL GRAVITY VENTILATION SYSTEM COMPONENTS TO ROOF AND GABLE LOCATIONS NOTES.

**ROOF AREA 9 - (APPROXIMATE TOTAL 850 SF)**

## ROOFING APPLICATION

1. PROVIDE ICE & WATER SHIELD TO ALL ROOF SURFACES TO RECEIVE SHINGLE ROOFING.
2. PROVIDE 3-TAB ROOF SHINGLES, METAL Drip EDGE AND RAKE METAL.
3. REPLACE WOOD FASCIA WHERE DETERMINED TO BE DETERIORATED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
4. INSTALL SOFFIT VENT STRIPS AND HALF-UP RIDGE VENTS AT WALL INTERSECTION.
5. AT SIDEWALL, LIFT EXISTING EPPM MEMBRANE FROM SIDE WALL APPLICATION SUFFICIENT TO INSTALL HALF-UP SIDEWALL RIDGE VENTS. ADHERE MEMBRANE TO WALL AND VENT CAP AS NOTED

Date: -  
Drawn By: PED  
Checked By: WPF  
Project Mgr: WPF  
Project No: 21032  
Cad File: 21032\_S-R21.rvt  
Graphic Scale: 0" 1"

ROOF REPLACEMENT SMITH MERRILL HOUSE

AUGUSTA, MAINE

(C) 2017 WARD AUSTIN ENGINEERING, INC.

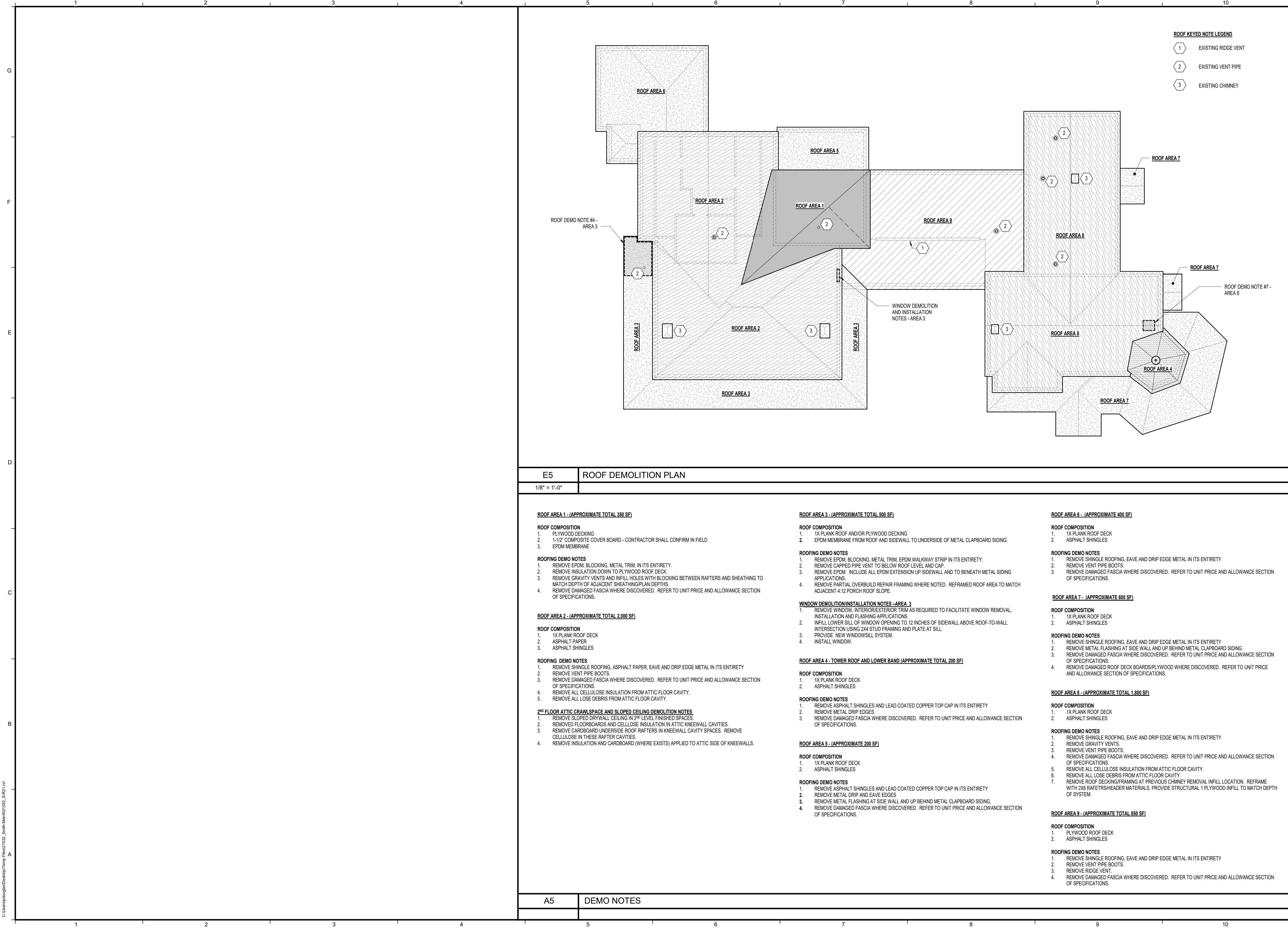
# R-100







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E5  
1/8" = 1'-0"

ROOF DEMOLITION PLAN

**ROOF AREA 1 - (APPROXIMATE TOTAL 350 SF)**

**ROOF COMPOSITION**

1. PLYWOOD DECKING
2. 1-1/2" COMPOSITE COVER BOARD - CONTRACTOR SHALL CONFIRM IN FIELD
3. EPDM MEMBRANE

**ROOFING DEMO NOTES**

1. REMOVE EPDM, BLOCKING, METAL TRIM, IN ITS ENTIRETY.
2. REMOVE INSULATION DOWN TO PLYWOOD ROOF DECK.
3. REMOVE GRAVITY VENTS AND INFILL HOLES WITH BLOCKING BETWEEN RAFTERS AND SHEATHING TO MATCH DEPTH OF ADJACENT SHEATHING/PLAN DEPTHS.
4. REMOVE DAMAGED FASCIA WHERE DISCOVERED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.

**ROOF AREA 2 - (APPROXIMATE TOTAL 2,000 SF)**

**ROOF COMPOSITION**

1. 1X PLANK ROOF DECK
2. ASPHALT PAPER
3. ASPHALT SHINGLES

**ROOFING DEMO NOTES**

1. REMOVE SHINGLE ROOFING, ASPHALT PAPER, EAVE AND DRIP EDGE METAL IN ITS ENTIRETY
2. REMOVE VENT PIPE BOOTS.
3. REMOVE DAMAGED FASCIA WHERE DISCOVERED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
4. REMOVE ALL CELLULOSE INSULATION FROM ATTIC FLOOR CAVITY.
5. REMOVE ALL LOSE DEBRIS FROM ATTIC FLOOR CAVITY.

**2ND FLOOR ATTIC CRAWLSPACE AND SLOPED CEILING DEMOLITION NOTES**

1. REMOVE SLOPED DRYWALL CEILING IN 2ND LEVEL FINISHED SPACES.
2. REMOVED FLOORBOARDS AND CELLULOSE INSULATION IN ATTIC KNEEWALL CAVITIES.
3. REMOVE CARDBOARD UNDERSIDE ROOF RAFTERS IN KNEEWALL CAVITY SPACES. REMOVE CELLULOSE IN THESE RAFTER CAVITIES.
4. REMOVE INSULATION AND CARDBOARD (WHERE EXISTS) APPLIED TO ATTIC SIDE OF KNEEWALLS.

**ROOF AREA 3 - (APPROXIMATE TOTAL 500 SF)**

**ROOF COMPOSITION**

1. 1X PLANK ROOF AND/OR PLYWOOD DECKING
2. EPDM MEMBRANE FROM ROOF AND SIDEWALL TO UNDERSIDE OF METAL CLAPBOARD SIDING.

**ROOFING DEMO NOTES**

1. REMOVE EPDM, BLOCKING, METAL TRIM, EPDM WALKWAY STRIP IN ITS ENTIRETY.
2. REMOVE CAPPED PIPE VENT TO BELOW ROOF LEVEL AND CAP.
3. REMOVE EPDM. INCLUDE ALL EPDM EXTENSION UP SIDEWALL AND TO BENEATH METAL SIDING APPLICATIONS.
4. REMOVE PARTIAL OVERBUILD REPAIR FRAMING WHERE NOTED. REFRAMED ROOF AREA TO MATCH ADJACENT 4:12 PORCH ROOF SLOPE.

**WINDOW DEMOLITION/INSTALLATION NOTES -AREA 3**

1. REMOVE WINDOW, INTERIOR/EXTERIOR TRIM AS REQUIRED TO FACILITATE WINDOW REMOVAL, INSTALLATION AND FLASHING APPLICATIONS
2. INFILL LOWER SILL OF WINDOW OPENING TO 12 INCHES OF SIDEWALL ABOVE ROOF-TO-WALL INTERSECTION USING 2X4 STUD FRAMING AND PLATE AT SILL.
3. PROVIDE NEW WINDOW/SILL SYSTEM.
4. INSTALL WINDOW.

**ROOF AREA 4 - TOWER ROOF AND LOWER BAND (APPROXIMATE TOTAL 200 SF)**

**ROOF COMPOSITION**

1. 1X PLANK ROOF DECK
2. ASPHALT SHINGLES

**ROOFING DEMO NOTES**

1. REMOVE ASPHALT SHINGLES AND LEAD COATED COPPER TOP CAP IN ITS ENTIRETY
2. REMOVE METAL DRIP EDGES.
3. REMOVE DAMAGED FASCIA WHERE DISCOVERED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.

**ROOF AREA 5 - (APPROXIMATE 200 SF)**

**ROOF COMPOSITION**

1. 1X PLANK ROOF DECK
2. ASPHALT SHINGLES

**ROOFING DEMO NOTES**

1. REMOVE ASPHALT SHINGLES AND LEAD COATED COPPER TOP CAP IN ITS ENTIRETY
2. REMOVE METAL DRIP AND EAVE EDGES
3. REMOVE METAL FLASHING AT SIDE WALL AND UP BEHIND METAL CLAPBOARD SIDING.
4. REMOVE DAMAGED FASCIA WHERE DISCOVERED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.

**ROOF AREA 6 - (APPROXIMATE 400 SF)**

**ROOF COMPOSITION**

1. 1X PLANK ROOF DECK
2. ASPHALT SHINGLES

**ROOFING DEMO NOTES**

1. REMOVE SHINGLE ROOFING, EAVE AND DRIP EDGE METAL IN ITS ENTIRETY
2. REMOVE VENT PIPE BOOTS.
3. REMOVE DAMAGED FASCIA WHERE DISCOVERED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.

**ROOF AREA 7 - (APPROXIMATE 600 SF)**

**ROOF COMPOSITION**

1. 1X PLANK ROOF DECK
2. ASPHALT SHINGLES

**ROOFING DEMO NOTES**

1. REMOVE SHINGLE ROOFING, EAVE AND DRIP EDGE METAL IN ITS ENTIRETY
2. REMOVE METAL FLASHING AT SIDE WALL AND UP BEHIND METAL CLAPBOARD SIDING.
3. REMOVE DAMAGED FASCIA WHERE DISCOVERED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
4. REMOVE DAMAGED ROOF DECK BOARDS/PLYWOOD WHERE DISCOVERED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.

**ROOF AREA 8 - (APPROXIMATE TOTAL 1,800 SF)**

**ROOF COMPOSITION**

1. 1X PLANK ROOF DECK
2. ASPHALT SHINGLES

**ROOFING DEMO NOTES**

1. REMOVE SHINGLE ROOFING, EAVE AND DRIP EDGE METAL IN ITS ENTIRETY
2. REMOVE GRAVITY VENTS.
3. REMOVE VENT PIPE BOOTS.
4. REMOVE DAMAGED FASCIA WHERE DISCOVERED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.
5. REMOVE ALL CELLULOSE INSULATION FROM ATTIC FLOOR CAVITY.
6. REMOVE ALL LOSE DEBRIS FROM ATTIC FLOOR CAVITY.
7. REMOVE ROOF DECKING/FRAMING AT PREVIOUS CHIMNEY REMOVAL INFILL LOCATION. REFRAME WITH 2X6 RAFTERS/HEADER MATERIALS, PROVIDE STRUCTURAL 1 PLYWOOD INFILL TO MATCH DEPTH OF SYSTEM.

**ROOF AREA 9 - (APPROXIMATE TOTAL 850 SF)**

**ROOF COMPOSITION**

1. PLYWOOD ROOF DECK
2. ASPHALT SHINGLES

**ROOFING DEMO NOTES**

1. REMOVE SHINGLE ROOFING, EAVE AND DRIP EDGE METAL IN ITS ENTIRETY
2. REMOVE VENT PIPE BOOTS.
3. REMOVE RIDGE VENT.
4. REMOVE DAMAGED FASCIA WHERE DISCOVERED. REFER TO UNIT PRICE AND ALLOWANCE SECTION OF SPECIFICATIONS.

ROOF DEMOLITION PLAN

Date: -

Drawn By: PED

Checked By: WPF

Project Mgr: WPF

Project No: 21032

Cad File: 21032\_S-R01.rvt

Graphic Scale: 0" 1"

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AUGUSTA, MAINE

ROOF REPLACEMENT SMITH MERRILL HOUSE

RD-100

ISSUED FOR BID ~ 07 JUNE 2021 ~ NOT FOR CONSTRUCTION

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Portland, Maine 04103  
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Web: www.allied-eng.com

Structural Mechanical Electrical Plumbing

Allied Engineering

REVISIONS

DESCRIPTION

DATE

BY

NO.



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E5 ROOF FRAMING PLAN

1/8" = 1'-0"

GENERAL WOOD:

- SIMPSON FRAMING CONNECTIONS SPECIFIED ON PLAN ARE BY THE SIMPSON STRONG-TIE COMPANY, INC. CONNECTIONS BY OTHER MANUFACTURERS MAY BE SUBSTITUTED IF THEY HAVE I.C.B.O. APPROVAL AND LOAD-CARRYING CAPACITY OF CONNECTORS AND ANCHOR IS EQUAL TO OR GREATER THAN SIMPSON CONNECTORS SPECIFIED.
- FASTEN ALL JOISTS TO SUPPORTS WITH APPROPRIATELY SIZED FRAMING HANGERS UNLESS NOTED OTHERWISE.

WOOD CONSTRUCTIONS:

- ALL LUMBER USED SHALL CONFORM TO THE FOLLOWING SPECIES:
  - 1<sup>ST</sup> LEVEL STUDS - SOUTHERN PINE NO 2 OR BETTER
    - 2X8 Fb = 1500 PSI, Fv = 175 PSI, E = 1,600,000 PSI
    - 2X8 Fb = 1250 PSI, Fv = 175 PSI, E = 1,600,000 PSI
  - ALL CONVENTIONAL LUMBER SHALL BE AS FOLLOWS:
    - SOUTHERN PINE:
      - RAFTERS AND RIDGE BLOCKING - NO 2 OR BETTER
        - Fv = 175 PSI, E = 1,600,000 PSI
        - 2X8 Fb = 1500 PSI, 2X8 Fb = 1250 PSI, 2X8 Fb = 1200 PSI, 2X10 Fb = 1050 PSI, 2X12 Fb = 975 PSI
    - WOOD BLOCKING FOR EPDM MEMBRANE INSTALLATIONS:
      - KILN DRIED NO 2 SOUTHERN PINE OR BETTER
      - PRESERVATIVE TREATED SHALL NOT BE USED
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- ALL MECHANICAL FASTENERS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT-DIP GALVANIZED OR MECHANICALLY DEPOSITED ZINC COATED FASTENERS. HOT-DIP GALVANIZED FASTENERS SHOULD MEET ASTM A153, WITH 2-OUNCES OF ZINC COATING PER SQUARE FOOT MINIMUM. MECHANICALLY DEPOSITED ZINC COATED FASTENERS SHALL MEET ASTM B695 CLASS 55 OR GREATER.
- ALL MECHANICAL CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE HOT-DIP GALVANIZED CONNECTORS. ALL HOT-DIP GALVANIZED CONNECTORS SHALL MEET ASTM 653, CLASS G185 WITH 1.85 OUNCES OF ZINC PER SQUARE FOOT MINIMUM OR TYPE 304 AND 316 STAINLESS STEEL PRODUCTS.
- FASTENERS AND CONNECTORS USED TOGETHER SHOULD BE OF THE SAME TYPE (E.G. HOT-DIP NAILS WITH HOT-DIP JOIST HANGERS).

WOOD STRUCTURAL PANELS:

- ALL SHEATHING SHALL BE GR. STRUCTURAL 1, STRUCTURAL PANEL SHEATHING.
- ALL ROOF SHEATHING SHALL BE 19/32" APA EXPOSURE 1 (40/20) PLYWOOD (UNLESS NOTED OTHERWISE), PROVIDE PLYWOOD EDGE CLIPS, RIDGE CLIPS AND HIP CLIPS.
- WALL SHEATHING SHALL BE STRUCTURAL 1 GRADE 7/16" PANELS APPLIED VERTICALLY. FASTEN WITH MINIMUM 80 COMMON NAILS 12" O.C. IN FIELD, 6" O.C. AT EDGES. INCREASE EDGE NAILING WHERE NOTED ON DRAWINGS. PROVIDE 2X BLOCKING AT ALL EDGES.
- FLOOR PANELS SHALL BE 23/32" GR. STRUCTURAL 1 PANEL APPLIED PERPENDICULAR TO SUPPORTS. GLUE DOWN WITH AN ELASTOMERIC ADHESIVE AND SCREW DIRECTLY TO FLOOR FRAMING WITH #8 SCREWS X 2" LONG, 6" O.C. ALONG EDGES AND 12" O.C. IN FIELD. SCREW SHANK SHALL PENETRATE THROUGH FLOORING. SCREWS SHALL BE THOSE INTENDED FOR STRUCTURAL ASSEMBLY OF WOOD STRUCTURES, MANUFACTURED BY QUICKORIVE, GRABBER OR USP.
- NAILING PATTERNS FOR WOOD SHEATHING, UNLESS NOTED OTHERWISE.
  - ROOF: 8D (131) NAILS 6" AT EDGES AND 12" INTERIOR
  - WALL: 6D (115) NAILS 6" AT EDGES AND 12" INTERIOR

GENERAL NOTES:

- THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE THE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO THE GENERAL NOTES. INCONSISTENCIES BETWEEN THE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- ALL DIMENSIONS AND COORDINATES SHALL BE FIELD VERIFIED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE 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.
- SECTIONS AND DETAILS SHOWN ON DRAWINGS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS.
- THE CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH ALL APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS.

DESIGN NOTES

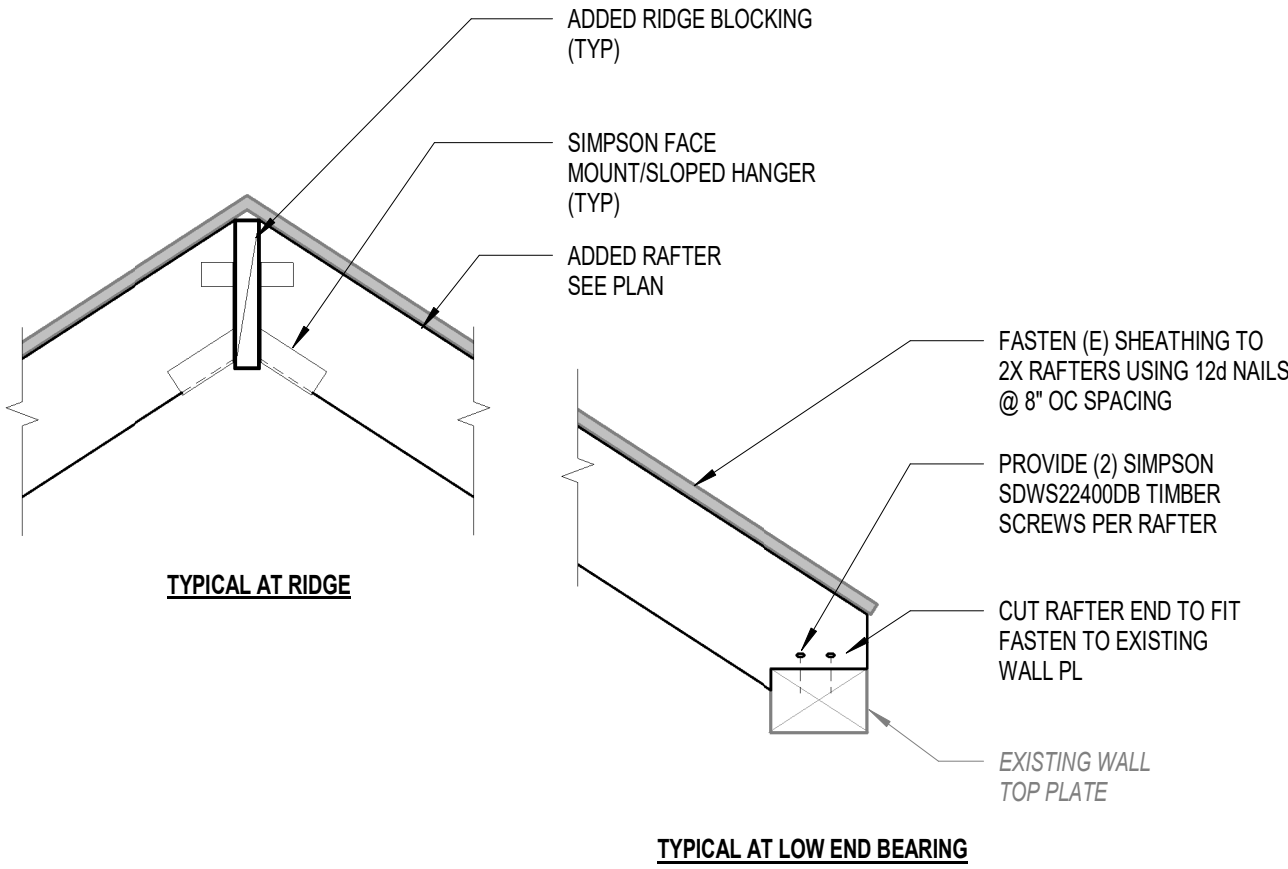
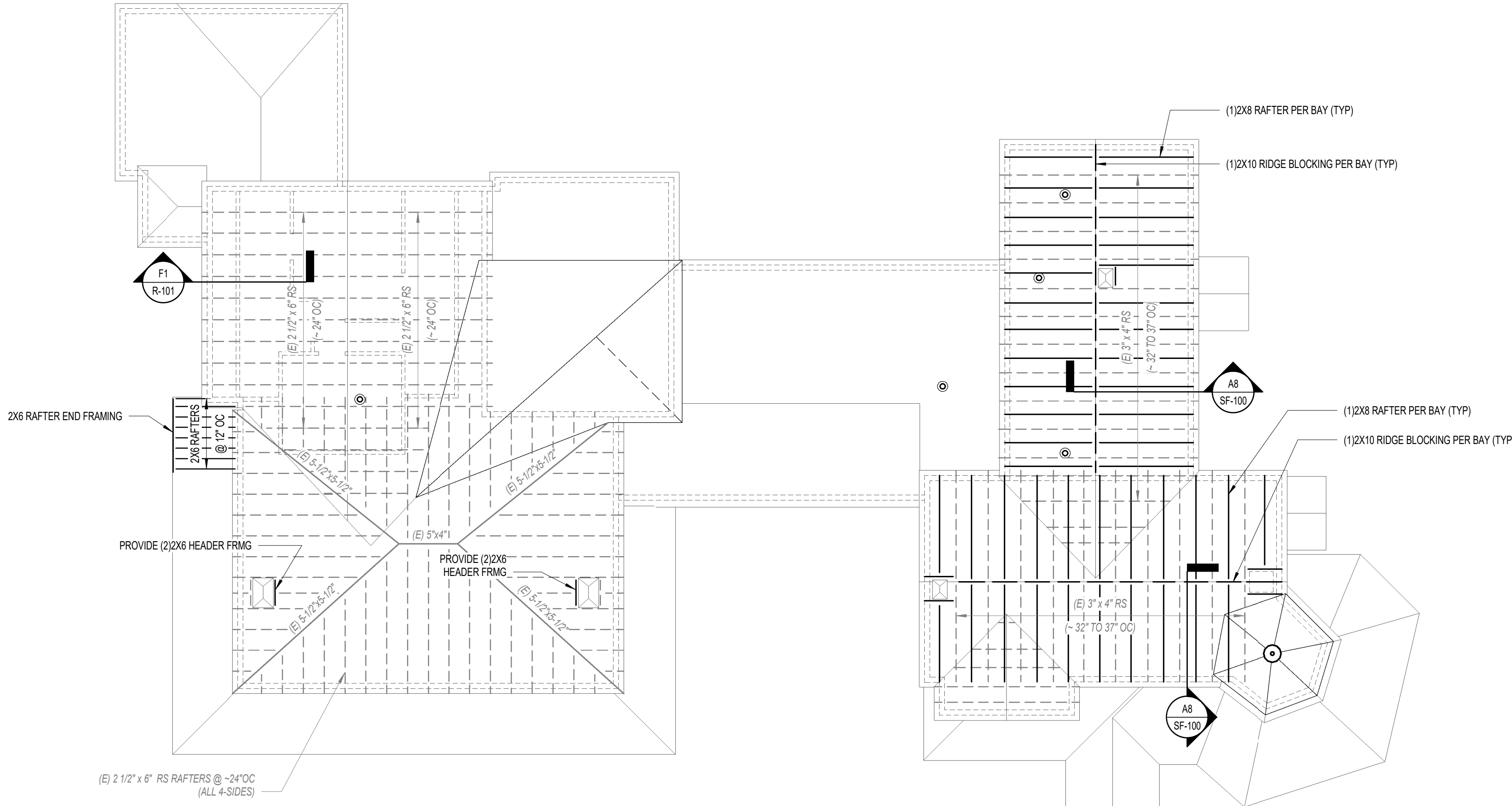
- THIS BUILDING IS DESIGNED TO COMPLY WITH THE 2015 EDITIONS OF BOTH THE INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL EXISTING BUILDING CODE (IEBC); ASCE 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES.
- DEAD LOADS: DESIGN INCLUDES THE SELF WEIGHT OF STRUCTURAL COMPONENTS PLUS 5 PSF ALLOWANCE FOR MISCELLANEOUS DUCTWORK, SPRINKLER PIPING AND OTHER HUNG ITEMS.
- SNOW LOAD:
  - SNOW DRIFTING IN ACCORDANCE WITH ASCE7-10

Snow Load Data	
Ground Snow Load:	70 psf
Flat Roof Snow Load:	59 psf
Snow Exposure Factor:	1.10
Snow Load Importance Factor:	1.00
Thermal Factor:	1.10

WIND LOAD:

Wind Design Data	
Ultimate Wind Speed:	115 mph
Nominal Wind Speed:	89 mph
Risk Category:	II
Wind Exposure:	C
Enclosure Classification:	Enclosed
End Zone Width:	3.00 ft.
Internal Pressure Coefficient:	0.18 +/-
Roof Zone 1:	+30.5 psf max., -33.4 psf min.
Roof Zone 2:	+30.5 psf max., -39.1 psf min.
Roof Zone 3:	+30.5 psf max., -39.1 psf min.
Roof at Zone 2 Overhangs:	-56.6 psf min.
Roof at Zone 3 Overhangs:	-56.6 psf min.
Wall Zone 4:	+33.4 psf max., -36.2 psf min.
Wall Zone 5:	+33.4 psf max., -44.7 psf min.

The Ultimate Wind Speed was used to determine the above Component and Cladding Design Pressures.  
This Building is not in a Wind-Borne Debris Region, and opening protection is not required.  
The site of this building is not subject to special topographic wind effects as per Section 1609.1.1.1 of the code.



A8 ADDED RAFTER DETAILS

1" = 1'-0"

STRUCTURAL - ROOF FRAMING PLAN

ROOF REPLACEMENT SMITH MERRILL HOUSE

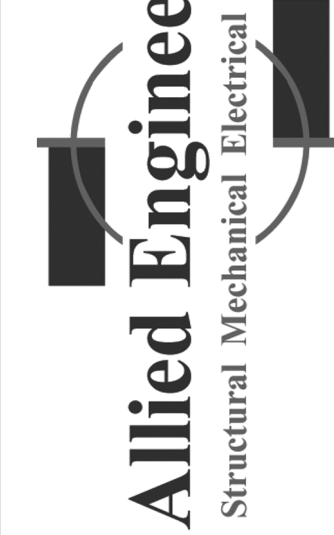
AUGUSTA, MAINE

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Date:	-
Drawn By:	PED
Checked By:	WPF
Project Mgr:	WPF
Project No:	21032
Cad File:	21032_SF01.rvt
Graphic Scale:	0" 1"

REVISIONS

No.	DATE	BY	DESCRIPTION

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SF-100