## Lincoln/Haney Engineering Associates, Inc.

Structural Engineering Consultants

Michael A. Cunningham, P.E., LEED AP Thad Gabryszewski, P.E., S.E. Justin Desjarlais

ADDENDUM #1	<b>DATE:</b> September 19, 2022
PROJECT:	Abbott House Reroofing Project at Maine Maritime Academy, Castine, Maine, BGS Project 3449
OWNER:	Maine Maritime Academy 1 Pleasant Street Castine, Maine 04420
<b>BID DATE:</b>	September 29, 2022

The contract documents dated September 2, 2022 are modified in accordance with this addendum as follows:

DESCRIPTION	<ul> <li><u>Relating to Project Manual</u> <ol> <li>Independent Roof Services drawings                 <b>Revise</b> drawings R2, R4, R8, and R11 as shown on attached revised drawings.         </li> </ol></li></ul> <li><u>Relating to Drawings</u> <ul> <li>Drawings S1 and S2</li> <li><b>Revise</b> drawings S1 and S2 as shown on attached revised drawings.</li> </ul> </li>
ATTACHMENTS	IRS drawings R2, R4, R8, and R11 and Lincoln/Haney Engineering drawings S1 and S2.
ENGINEER: By:	Lincoln/Haney Engineering Associates, Inc. Michael A. Cunningham, P.E., LEED AP











# ROOF FRAMING EXISTING CONDITIONS PLAN

#### GENERAL NOTES:

I. MODIFICATIONS TO ROOF FRAMING ARE DESIGNED FOR LOADINGS SPECIFIED IN THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE AND THE 2010 EDITION OF @MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURESA BY THE AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCET-IO. ALTERATIONS ARE DESIGNED TO SUPPORT DEAD LOADS OF EXISTING AND NEW COMPONENTS AND SNOW LOADS AS FOLLOWS:

- A. GROUND SNOW LOAD PG = 60 PSF.
- B. EXPOSURE FACTOR CE = 1.0.
- C. IMPORTANCE FACTOR IS = 1.0 D. THERMAL FACTOR CT = 1.1 TYPICALLY EXCEPT THAT CT =1.2 AT ROOF OVERHANGS.
- E. FLAT ROOF SNOW LOAD PF = 46.2 PSF.
- F. UNBALANCED AND DRIFTED SNOW IN ACCORDANCE WITH ASCE7-10. 2. DIMENSIONS INDICATED ON THE DRAWINGS AND OTHER EXISTING
- CONDITIONS INFORMATION ARE APPROXIMATE, PROVIDED FOR PRICING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND OTHER EXISTING CONDITIONS PRIOR TO PERFORMING AFFECTED AREAS OF THE WORK.
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE BUILDING FROM DAMAGE DUE TO WATER INTRUSION, REMOVAL OF ROOF DECK, AND OTHER ACTIVITIES DURING CONSTRUCTION. TO THAT END, DECK REMOVAL ON ANY DAY SHALL BE LIMITED TO WHAT CAN BE REINSTALLED BEFORE LEAVING FOR THE DAY. THE ROOF SHALL HAVE WEATHER PROTECTION AT THE CLOSE OF EACH WORKDAY. THE CONTRACTOR SHALL MONITOR WEATHER CONDITIONS THROUGHOUT THE WORKDAY AND RESPOND TO ANY CHANGES IN WEATHER TO PROVIDE PROTECTION OF EXISTING INTERIORS THROUGHOUT THE WORKDAY AS WARRANTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS OF ANY DAMAGES THAT OCCUR AS A RESULT OF THE CONTRACTOR'S OPERATIONS DURING THE CONSTRUCTION PERIOD.

- A. THE CONTRACTOR SHALL EXERCISE CAUTION IN LOADING THE ATTIC FLOOR/CEILING JOISTS WITH CONSTRUCTION MATERIALS AND EQUIPMENT. ANY DAMAGE CAUSED BY THE USE OF THE ATTICS AS A WORKING PLATFORM SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE
- 4. CONDUCT LOCALIZED DEMOLITION IN SUCH FASHION TO MINIMIZE DISTURBANCE OF ADJACENT AREAS. ANY AREAS AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE RETURNED TO CONDITION AS EXISTED PRIOR TO CONSTRUCTION.
- 5. AT THE HOUSE HIGH ROOF, REMOVAL OF ROOF DECK IS INDICATED AROUND THE PERIMETER FOR ACCESS TO STRUCTURE AND FOR LOADING MATERIALS INTO THE ATTIC. ADDITIONAL ROOF DECK REMOVAL IS ACCEPTABLE AS WARRANTED TO PERFORM SPECIFIED REINFORCEMENTS. TEMPORARY PROTECTION AND PERMANENT ROOF SHEATHING INSTALLATION SHALL COMPLY WITH NOTES AND SPECIFICATIONS AS STATED FOR OTHER AREAS.
- 6. WHERE WIRING AND SIMILAR EXISTING CONDITIONS OBSTRUCT THE SPECIFIED ALTERATIONS, TEMPORARILY RELOCATE THOSE ITEMS. DO NOT DISCONNECT ANY COMPONENT WITHOUT APPROVAL BY THE OWNER. REINSTALL AS APPROVED BY THE OWNER.
- 7. AT SOME LOCATIONS, IT WILL BE NECESSARY TO DISCONNECT FRAMING MEMBERS FROM SUPPORTS IN ORDER TO INSTALL SPECIFIED REINFORCEMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING STABILITY OF DISCONNECTED MEMBERS UNTIL FINAL CONNECTIONS ARE COMPLETED.

### WOOD FRAMING NOTES

- I. @LVLA DESIGNATES LAMINATED VENEER LUMBER. PROVIDE BOISE CASCADE VERSA-LAM 2.0 3100 FRAMING. WHERE MEMBERS THICKER THAN 1-3/44 ARE SPECIFIED, PROVIDE SINGLE MEMBERS FABRICATED TO THE SPECIFIED THICKNESS. JOINING MULTIPLE MEMBERS TO ATTAIN THE SPECIFIED THICKNESS IS NOT ACCEPTABLE UNLESS SPECIFICALLY APPROVED AS A SUBSTITUTION.
- 2. NEW DIMENSION LUMBER SHALL BE #2 GRADE OR BETTER

SPRUCE-PINE-FIR GRADED UNDER NLGA RULES.

|/4"=|'-0"

- 3. WHERE NAILS ARE SPECIFIED, PROVIDE FASTENERS WITH THE FOLLOWING MINIMUM DIMENSIONS: A. IOD NAILS USED FOR FASTENING ROOF SHEATHING = 0.1484
- DIAMETER X 34. B. IOD NAILS USED FOR FRAMING = 0.124 DIAMETER X 2-7/84. C.  $|6D \text{ NA}|LS = O.|48^{\Delta} \times 3^{-1}/4^{\Delta}$ .
- D. 8D NAILS = O.II3A DIAMETER X 2-3/8A. 4. PROVIDE FASTENERS FOR CONNECTING WOOD FRAMING AS
- INDICATED. WHERE NOT INDICATED, COMPLY WITH TABLE 2304.10.1 IN THE 2015 EDITION OF THE INTERNATIONAL BUILDING CODE.
- 5. INSTALL TOENAILS AT AN ANGLE 30 DEGREES FROM THE AXIS OF THE SUPPORTED MEMBER. INSTALL WITH THE TIP LOCATED AT A DISTANCE OF 1/3 OF THE NAIL LENGTH FROM THE END OF THE SUPPORTED MEMBER.
- 6. LAG SCREWS SHALL COMPLY WITH ANSI/ASME BI8.2.1. FOR 5/84 DIAMETER LAG SCREWS, THE MAXIMUM PILOT HOLE FOR THE THREADED PORTION OF THE SCREW SHALL BE 70% OF THE SHANK DIAMETER.
- 7. WHERE PROPRIETARY CONNECTORS ARE SPECIFIED, INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. USE ALL SPECIFIED FASTENERS WITHOUT SUBSTITUTION UNLESS OTHERWISE NOTED ON THE DRAWINGS. WHERE MORE THAN ONE FASTENER SPECIFICATION EXISTS, INSTALL THE MAXIMUM FASTENING UNLESS OTHERWISE NOTED.
- 8. BOLTS SPECIFIED FOR CONNECTING TIMBER MEMBERS AND FOR CONNECTING TIMBER MEMBERS TO STEEL SHALL BE ASTM A307 BOLTS. INSTALL WITH DRILLED HOLES 1/164 LARGER THAN THE BOLT DIAMETER.

# ROOF DECK NOTES

I. HIGH ROOF - AT AREAS WHERE IA EXISTING BOARD SHEATHING IS REMOVED, INFILL WITH APA RATED STURDI-FLOOR WITH THICKNESS TO MATCH EXISTING DECK. INSTALL WITH LONG DIMENSION

PERPENDICULAR TO SUPPORTS. FASTEN TO SUPPORTS WITH IOD NAILS AT 64 ON CENTER. 2. LOW ROOF - COVER ENTIRE ROOF SURFACE W/ APA RATED

- SHEATHING. PROVIDE 19/32A THICKNESS WITH SPAN RATING 40/20, EXPOSURE I.
- A. LAY PANELS WITH THE LONG DIMENSION PERPENDICULAR TO SUPPORTS AND THE SHORT DIMENSIONS STAGGERED. B. FASTEN TO SUPPORTS WITH IOD NAILS. SPACE NAILS AT 64 ON CENTER AT SUPPORTED PANEL EDGES AND AT 124 ON CENTER AT INTERMEDIATE SUPPORTS.
- STRUCTURAL STEEL NOTES I. ALL STEEL WORK SHALL CONFORM TO THE 14TH EDITION OF THE
- SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, ANSI/AISC 360-10. 2. SUBMIT SHOP DRAWINGS FOR STRUCTURAL STEEL COMPONENTS. NOTE THAT ALL DIMENSIONS FOR MEMBER LENGTHS AND CONNECTIONS MUST BE DERIVED FROM FIELD MEASUREMENTS OF EXISTING
- CONSTRUCTION. 3. ALL WELDING SHALL BE DONE BY A WELDER CERTIFIED BY THE AMERICAN WELDING SOCIETY FOR THE WELDING PROCEDURE AND
- POSITIONS UTILIZED. 4. ALL WELDING SHALL BE IN COMPLIANCE WITH AWS DI.I STRUCTURAL WELDING - STEEL BY THE AMERICAN WELDING SOCIETY, LATEST EDITION.
- 5. NO FIELD WELDING IS PERMITTED IN THE ATTIC. 6. BOLTS USED TO CONNECT STEEL FRAMING MEMBERS SHALL BE IN COMPLIANCE WITH THE 2009 EDITION OF THE SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS BY THE RESEARCH
- COUNCIL ON STRUCTURAL CONNECTIONS. 7. BOLTS USED TO CONNECT STEEL FRAMING MEMBERS SHALL BE ASTM A325 BOLTS. INSTALL TO SNUG-TIGHT CONDITION UNLESS OTHERWISE INDICATED.
- 8. STRUCTURAL STEEL ANGLES, CHANNELS, AND PLATES SHALL BE ASTM A36.

DRAWN BY       SWM       PROOF SMM         DAR       SMM       Reroofing of the Able         CHKD BY       MAC       at Maine Maritime J         DATE       9GS PROJECT #3         PROJ. NO.       2022.056         ROOF FRAMING EXISTING CON	DRAWN BY     SHW     PROOF ING of the Able       CHKD BY     MAC     Reroofing of the Able       CHKD BY     MAC     at Maine Maritime J       SSUE DAFE     900     903 PROJECT #3       PROJ. NO.     2022.056     Castine, Maine       ROOF FRAMING EXISTING CON     ROOF FRAMING EXISTING CON	Lincoln / HaneyHaneyReroofing of the AblEngineering Associates, Inc.Engineering Associates, Inc.Engineering Associates, Inc.I Maine Street, Suite 306AEngineering Associates, Inc.Engineering Associates, Inc.Box 7Engine 04011Engineering Associates, Inc.Engineering Associates, Inc.Brunswick, Maine 04011For Fax: 207-729-1061 Fax: 207-
NG MAN	MICHAEL ALAW CUNNINGHAM NOVAS19 KICENSED SSIONAL EN	<b>Lincoln / Haney</b> Engineering Associates, Inc. 14 Maine Street, Suite 306A Box 7 Box 7 Bunswick, Maine 04011 Phone: 207-729-1061 Fax: 207-729-2941



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	LINCOIN / HANEY	*	CHK'D BY XAO	at Maine Maritime Academy	_	9/19/22	ADDENDUM No.I	
5	Engineering Associates, Inc.		ISSUE DATE <b>9-2-22</b>	BGS PROJECT #3449				
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