INDEPENDENT ROOF SERVICES, INC.

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PROJECT: Roof Replacement of
Field House, Maine Maritime Academy
Castine, Maine

SUBJECT: ADDENDUM NO. 3

DATE: December 6, 2018

TO ALL BIDDERS: This addendum forms a part of the contract documents dated November 6, 2018. It modifies them as follows:

Mr. Andrew Morse of Royal Adhesives & Sealants performed a pull test using Millennium One Step on November 30, 2018, and their report is attached hereto.

As of December 6, 2018, Firestone and GenFlex have agreed to issue the necessary 20-year warranty with the 72 MPH wind speed. Carlisle will not issue the specified warranty re-using the existing roof insulation.

During the pre-bid meeting a contractor asked if we would accept scoring of the existing 4 by 8 sheets in lieu of cutting them into 4 x 4 sheets. Be advised that Firestone and GenFlex will require cutting not scoring.

Drawing R1 and R2 have been revised to show an area where 7/16″ OSB was used as a cover board and the re-issued drawings no longer show a fan curb that was long ago removed from the roof. Drawing R1 and R2 revised for addendum number 3 are attached hereto.

Acknowledge receipt of this addendum on the proposal form.

END OF ADDENDUM NO. 3

Royal Adhesives & Sealants Pull Test Result Sheet

Project Name: Maritime Academy

Location: 1 Pleasant St Castine, ME

Date: 11/30/18

Roof Area Location: Field House **Ambient Temp.:** 30* F

Building Criteria: Height: **Width:** **Length:**

Adhesive Tested: Millennium One Step **Bead Spacing:** 4" and 6"OC

Insulation Used: existing 2" Polyisocyanurate
Tester Used: DMD Model # DFG2w2000 serial #21009006

Max Capacity of Tester: 2000

Test Performed By: Andrew Morse of Royal Adhesives & Sealants

Witnessed by: Walter Barschdorf

Test Cut Areas Repaired By: Independent Roof Service

Royal Adhesives & Sealants cannot be held responsible for the watertightness of the repairs where tests were performed, nor can they be held responsible for the structural integrity of the roof deck or any material below the adhesive.

Project Type: □ New Construction x Tear Off □ Retrofit

SUBSTRATE TESTED

x Concrete
□ Lightweight Insulating Concrete
□ Structural Lightweight Concrete
□ Cementitious Wood Fiber (Tectum)
□ Gypsum
□ Wood
□ Smooth BUR
□ Gravel Surface BUR
□ Steel
□ Other

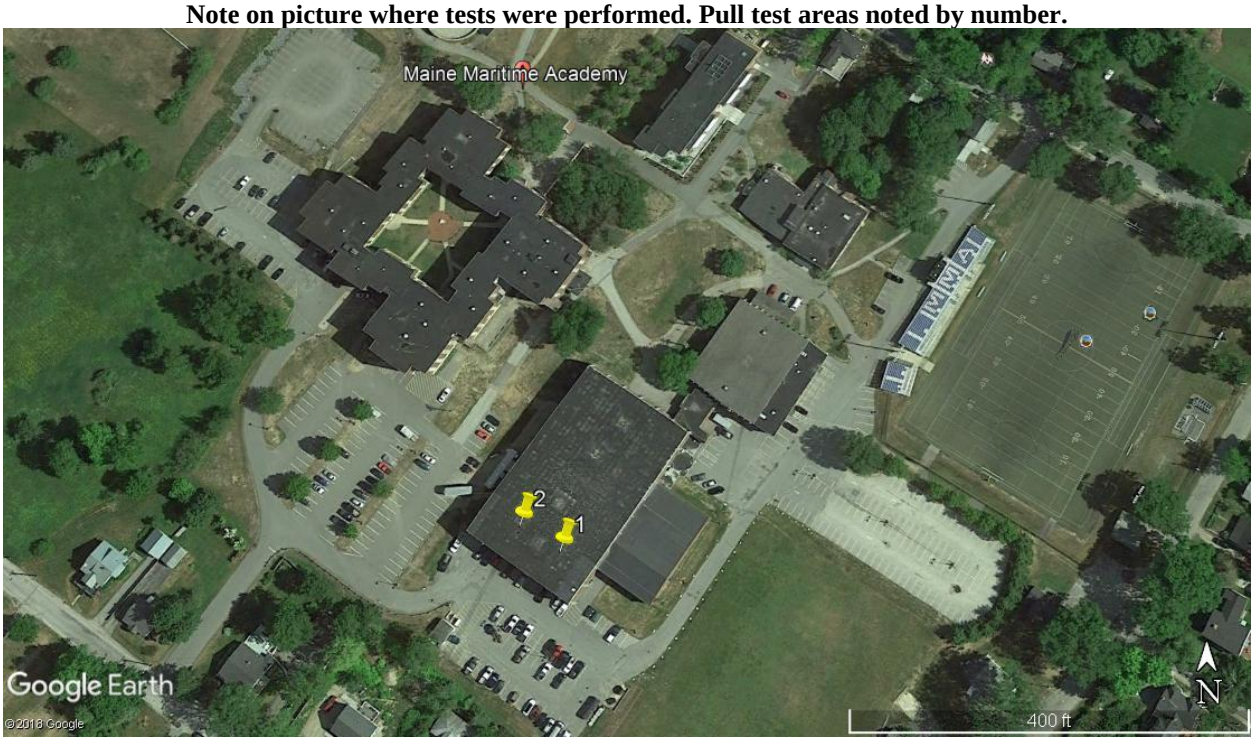
Results

1) Test Stopped after passing 805lbs = 195 PSF
2) Test Stopped after passing 805lbs = 195 PSF

Mode of Failure

No failure.
No failure.

Note on picture where tests were performed. Pull test areas noted by number.



Comments:

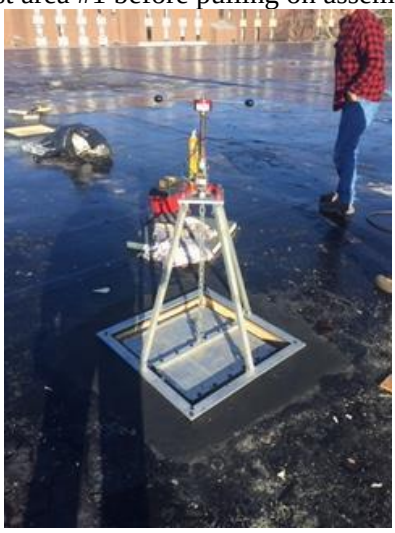
2 square test areas were identified for testing directly to concrete decking using existing ISO.

In test area #1 Millennium One Step was applied in a 4" on center pattern over concrete decking. A 2' by 2' piece of 2" polyisocyanurate was set into the wet adhesive and held in place until it was locked into position. Then a 2'x2' piece of ¾" plywood was set in and held in place. The adhesive beads were left to cure for a minimum of 60 minutes prior to conducting the pull tests per ANSI/SPRI IA-1 2010 specification.

In test area #2 Millennium One Step was applied in a 6" on center pattern over concrete decking. A 2' by 2' piece of 2" polyisocyanurate was set into the wet adhesive and held in place until it was locked into position. Then a 2'x2' piece of ¾" plywood was set in and held in place. The adhesive beads were left to cure for a minimum of 60 minutes prior to conducting the pull tests per ANSI/SPRI IA-1 2010 specification.

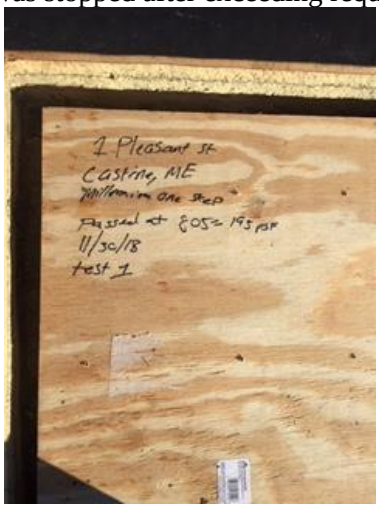
Photographs:

Test area #1 before pulling on assembly

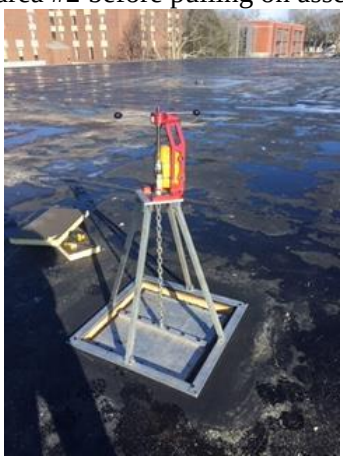


Pull test #1 as test passed 805lbs = 195PSF
Test was stopped after exceeding requirements

Test #1 was stopped after exceeding requirements

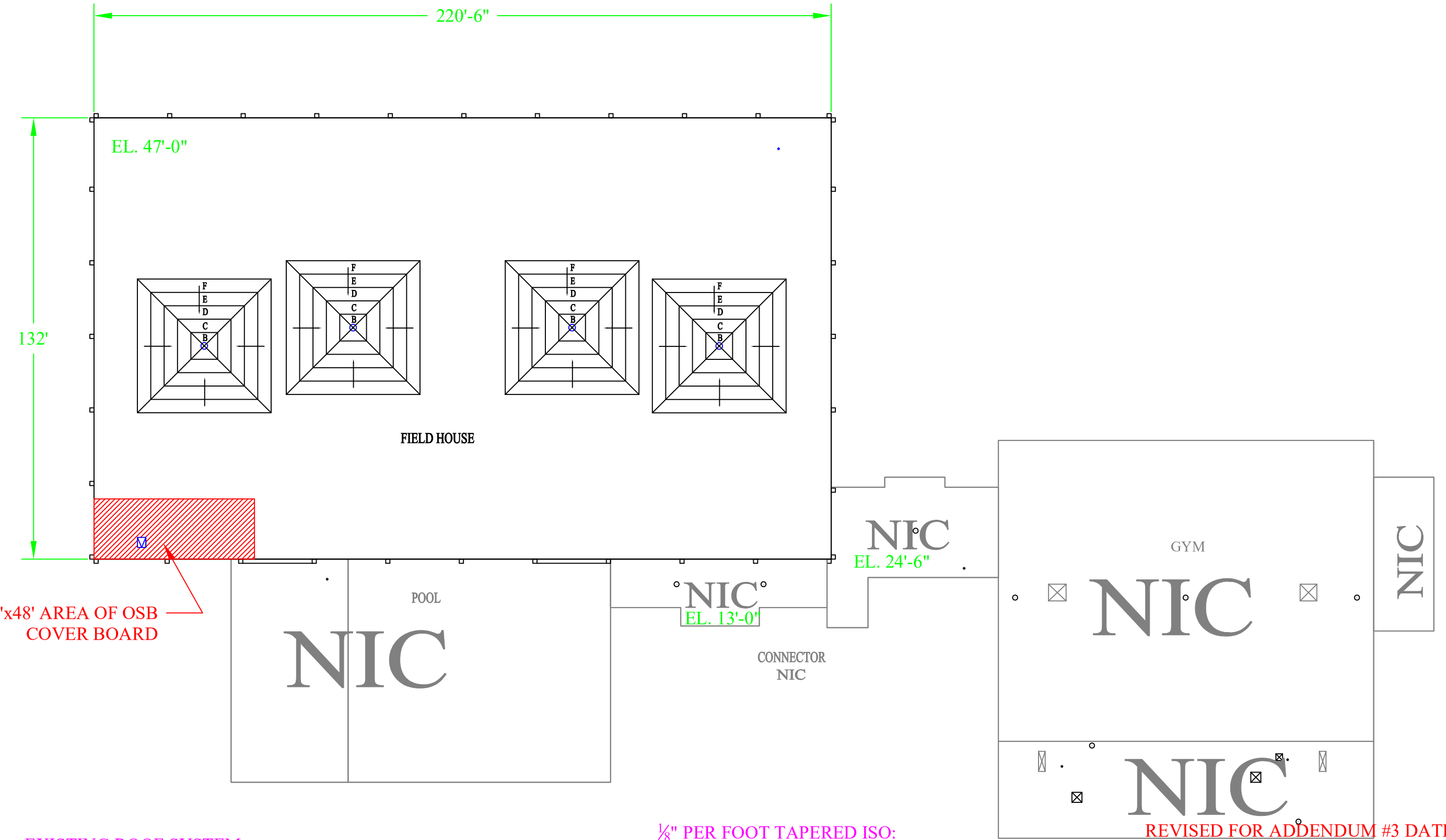


Test area #2 before pulling on assembly



Pull test #2 as test passed 805lbs = 195PSF
Test was stopped after exceeding requirements

Test #2 was stopped after exceeding requirements



EXISTING ROOF SYSTEM:
0.060" ADHERED EPDM
½" H.D. FIBERBOARD
2 LAYERS OF 2" ISO (SUMP AREAS ⅛" PER FOOT TAPERED ISO)
3" CHANNEL REINFORCED CEMENTITIOUS WOOD FIBER DECK

⅛" PER FOOT TAPERED ISO:
B= 1½"-2"
C=2"-2½"
D=2½"-3"
E=3"-3½"
F=3½"-4"

LEGEND:
- ⊙ DRAIN
- ⊠ CURB
- ◦ PLUMBING VENT
- ⍁ ROOF HATCH

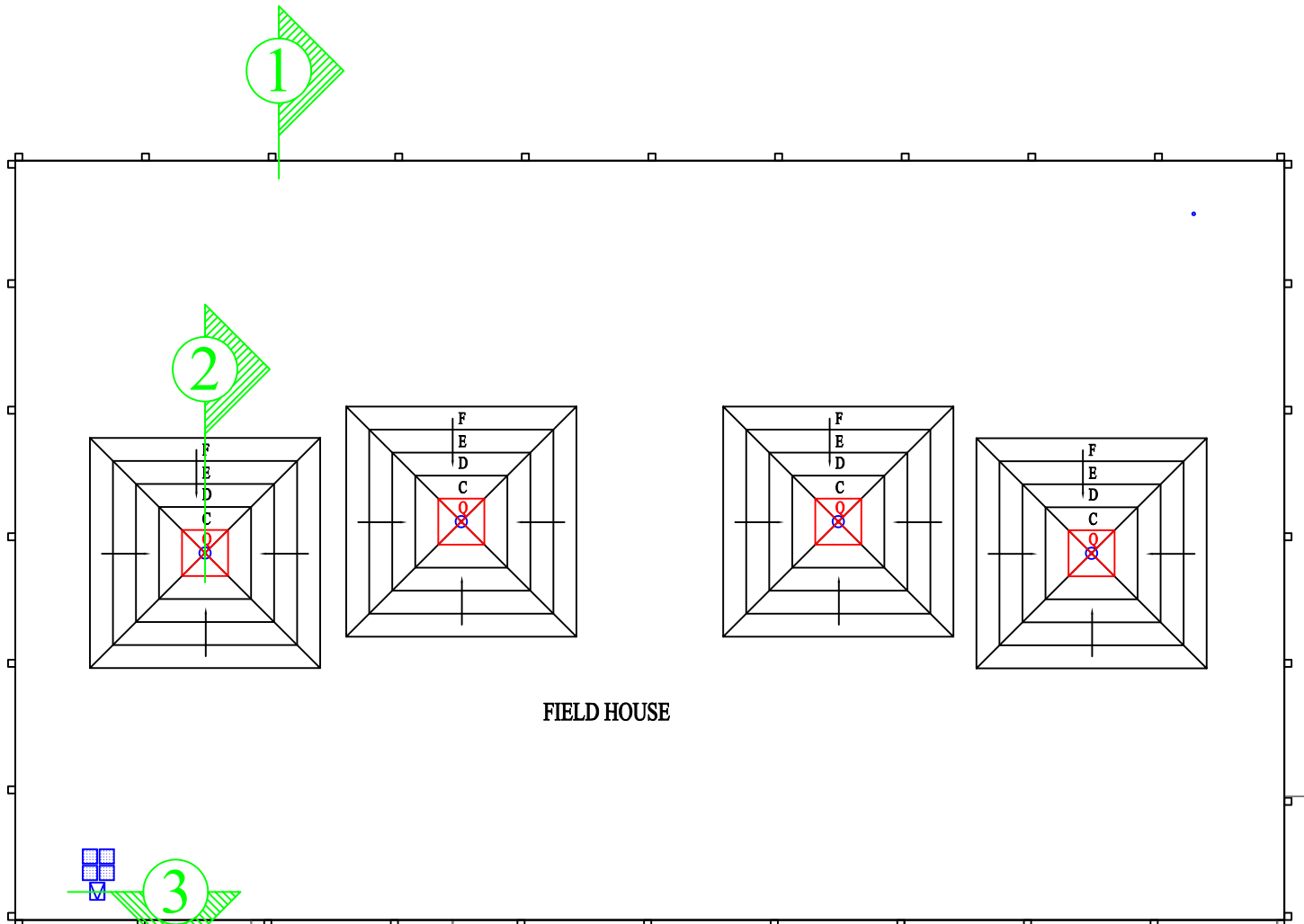
REVISED FOR ADDENDUM #3 DATED 12/6/2018

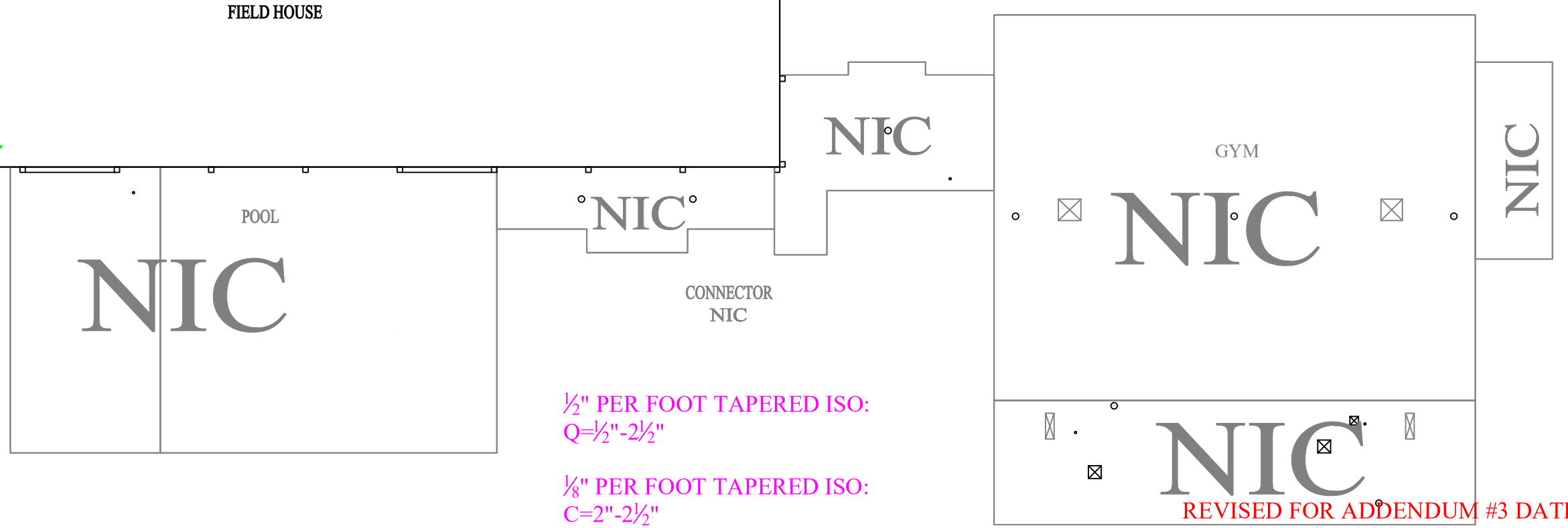
MAINE MARITIME ACADEMY
CASTINE, MAINE

INDEPENDENT ROOF SERVICES POWNAL, MAINE	SCALE: 1"=30'	DRAWN BY WEB REVISED BY JLB

TITLE: EXISTING ROOF PLAN

DATE:	FILE NAME:	DRAWING #:
11-6-18	MMA	R1





½" PER FOOT TAPERED ISO:
Q=½"-2½"

⅛" PER FOOT TAPERED ISO:
C=2"-2½"
D=2½"-3"
E=3"-3½"
F=3½"-4"

REVISED FOR ADDENDUM #3 DATED 12/6/2018

PROPOSED ROOF SYSTEM:
NEW 0.060" ADHERED EPDM
NEW ½" DENSDECK
NEW 2" ISO
EXISTING 2 LAYERS OF 2" ISO (SUMP AREAS ⅛" PER FOOT TAPERED ISO WITH NEW Q BOARD AT DRAIN)
EXISTING 3" CHANNEL REINFORCED CEMENTITIOUS WOOD FIBER DECK

LEGEND:
- DRAIN
- CURB
- PLUMBING VENT
- WALKWAY PAD
- ROOF HATCH

MAINE MARITIME ACADEMY
CASTINE, MAINE

INDEPENDENT ROOF SERVICES POWNAL, MAINE	SCALE: 1"=30'	DRAWN BY WEB REVISED BY JLB
TITLE: PROPOSED ROOF PLAN		
DATE: 11-6-18	FILE NAME: MMA	DRAWING #: R2