

**Fire Protection Upgrades
Halifax Elementary School
464 Plymouth Street
Halifax, MA 02338**

**Habeeb & Associates Architects
H&A Job No. 1614.01**

**ADDENDUM NO. 03
February 4, 2019**

The attention of Bidders submitting proposals for the above subject project located in Halifax, MA, is called to the following Addendum to the Contract Documents. The items set forth herein, whether of omission, addition, substitution, or clarifications are all to be included in and form a part of the proposal submitted. This Addendum consists of two (2) type-written pages, one (1) sketch, two (2) drawings and one (1) specification page.

THE NUMBER OF THIS ADDENDUM (03) MUST BE ENTERED IN THE APPROPRIATE SPACE PROVIDED ON DOCUMENTS IN THE FOLLOWING SECTIONS:

SECTION 00 4123 - FORM FOR GENERAL BID
SECTION 00 4124 - FORM FOR FILED SUB BID.

A. Request for Information Questions and Responses:

1. **QUESTION:** Regarding Note-3 in Sheet Number A-151 ATTIC PLAN, are we to understand that all of the surface areas highlighted in red are to have spray foam applied directly to the underside of the roof deck? If not please clarify where the foam is to be sprayed.

RESPONSE: The areas shown in red on the marked up attic plans are incorrect. New spray foam insulation is only required at the eave conditions. A previous project done in 2017 added vented nailboard with poly-isocyanurate insulation to all of the roofs above the roof deck. Refer to the attached SK-1 for clarification of the eave locations.

2. **QUESTION:** Regarding Note-3 in Sheet Number A-151 ATTIC PLAN, what is the R-VALUE required for the 4" thickness spray foam?

RESPONSE: R-20

3. **QUESTION:** Regarding SPECIFICATION SECTION 2.02, where does this foam get installed and what is the R-VALUE?

RESPONSE: At small areas including gaps and holes in the thermal barrier such as the new locations of the sprinkler drain pipes. Assume ten cubic feet of spray foam.

4. **QUESTION:** Regarding the comment highlighted in yellow in Sheet Number A-300 ATTIC SECTIONS, are we to understand that the whole roof is not to be sprayed, that only the small black triangular areas are to be sprayed? If so then is it the foam in SPECIFICATION 2.02 or SPECIFICATION 2.03? Additionally what is the R-VALUE and what are the dimensions for installation of this foam?

RESPONSE: The whole roof does not need to be sprayed. Just the areas along the eaves shown in the black triangular areas and as shown on the attached sketch SK-1.

5. **QUESTION:** Where is the fiberglass that is to be removed located?

RESPONSE: The fiberglass insulation to be removed is at the floor space of all of the attics in the cavities between the ceiling joists.

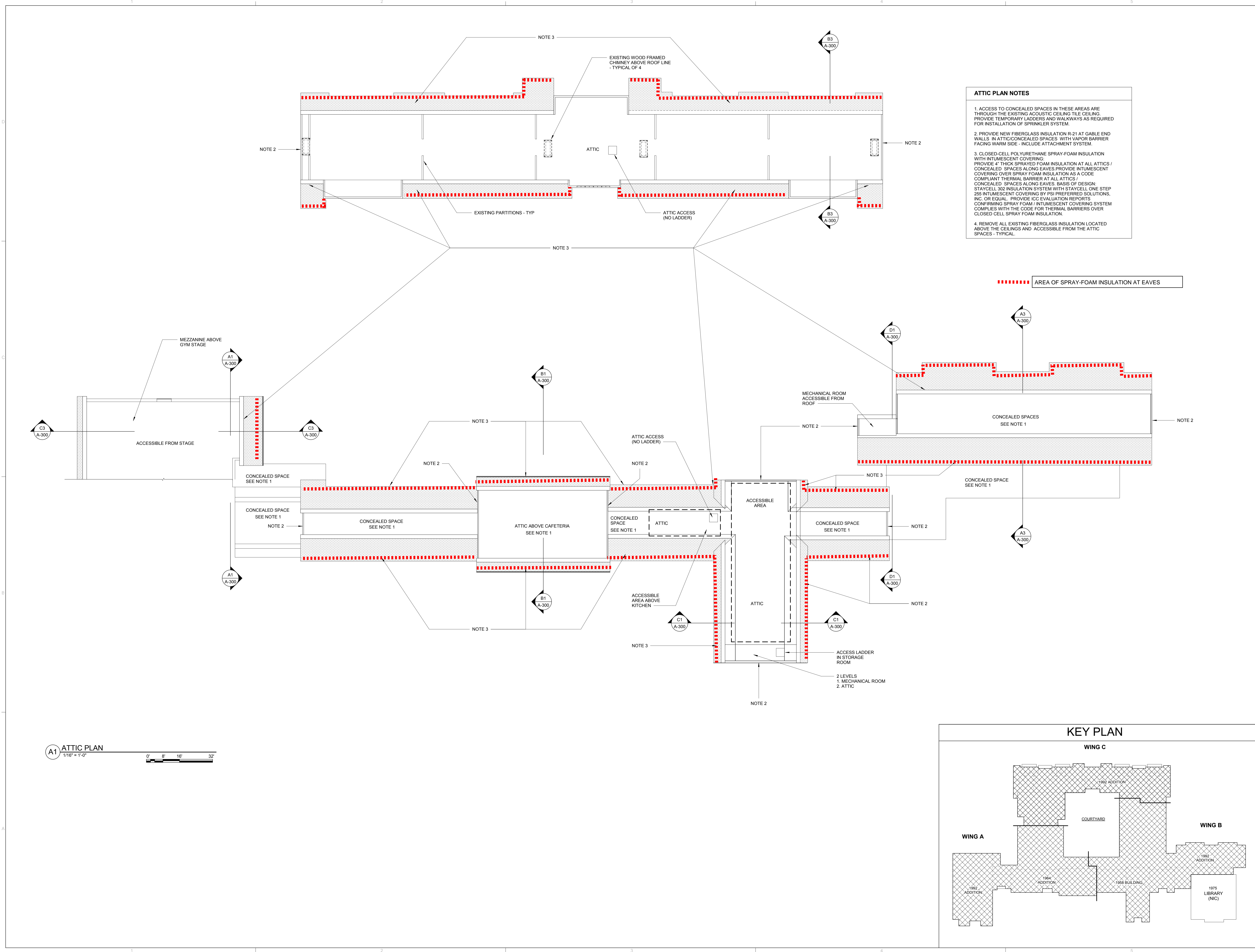
6. **QUESTION:** When will the ADDENDUM responding to these question be issued? If necessary would you consider extending the Bid Due Date of 02/08/2019 at 04:00 PM so that we could have sufficient time to prepare our price quotation to each of the bidding general contractors?

RESPONSE: The general bid due dates can't be pushed out due to the schedule.

All other portions of the Contract Documents remain unchanged.

Please be reminded to acknowledge this Addendum the bid forms.

END OF ADDENDUM # 03

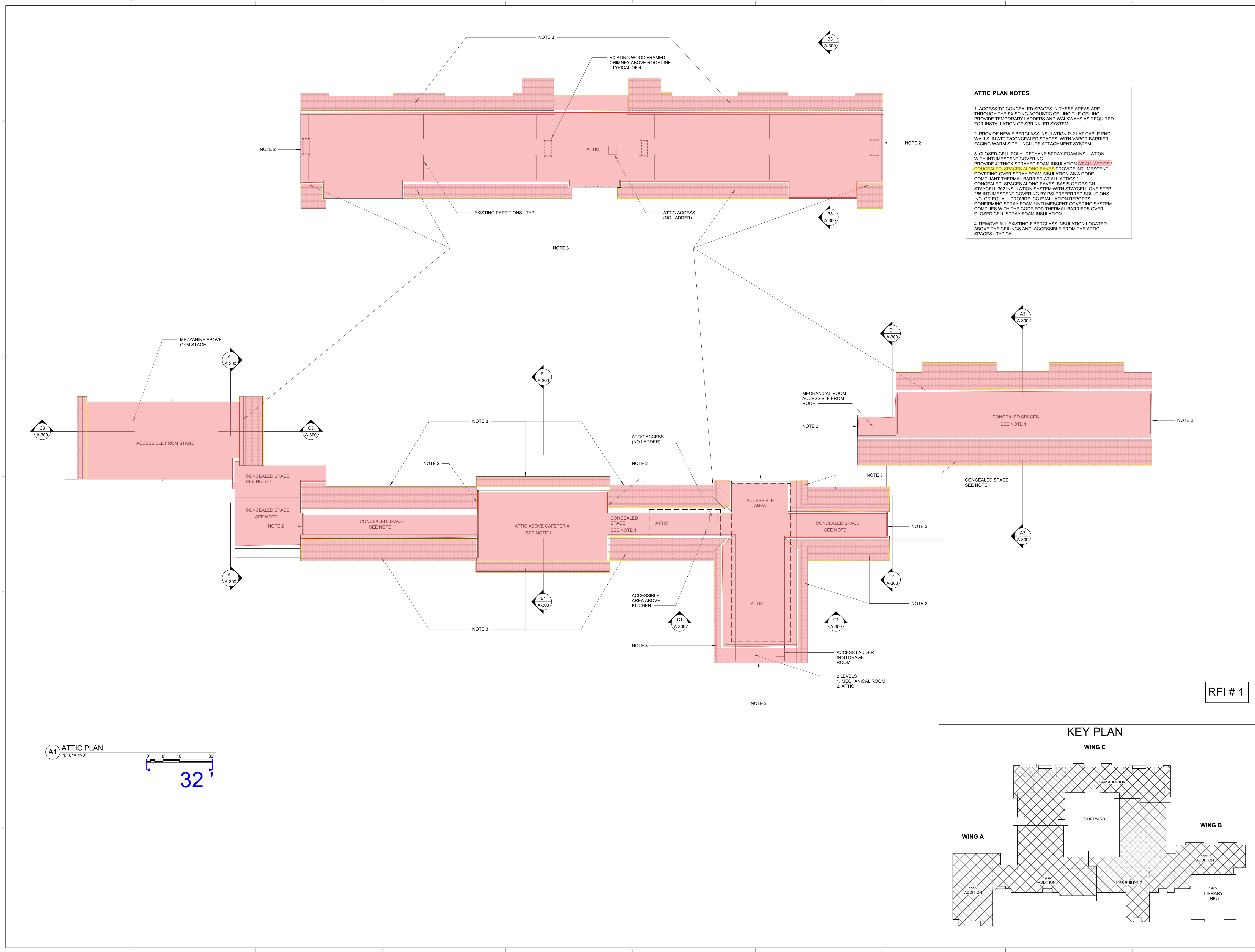


REVISION	DATE	REVISIONS
MARK	01-16-19	CONSTRUCTION DOCUMENTS

PROJECT NO: 1614.01
DATE: 01-16-19
SCALE: 1/16" = 1'-0"
DRAWN BY: GW
CHECKED BY: SB

ATTIC PLAN

SK-1



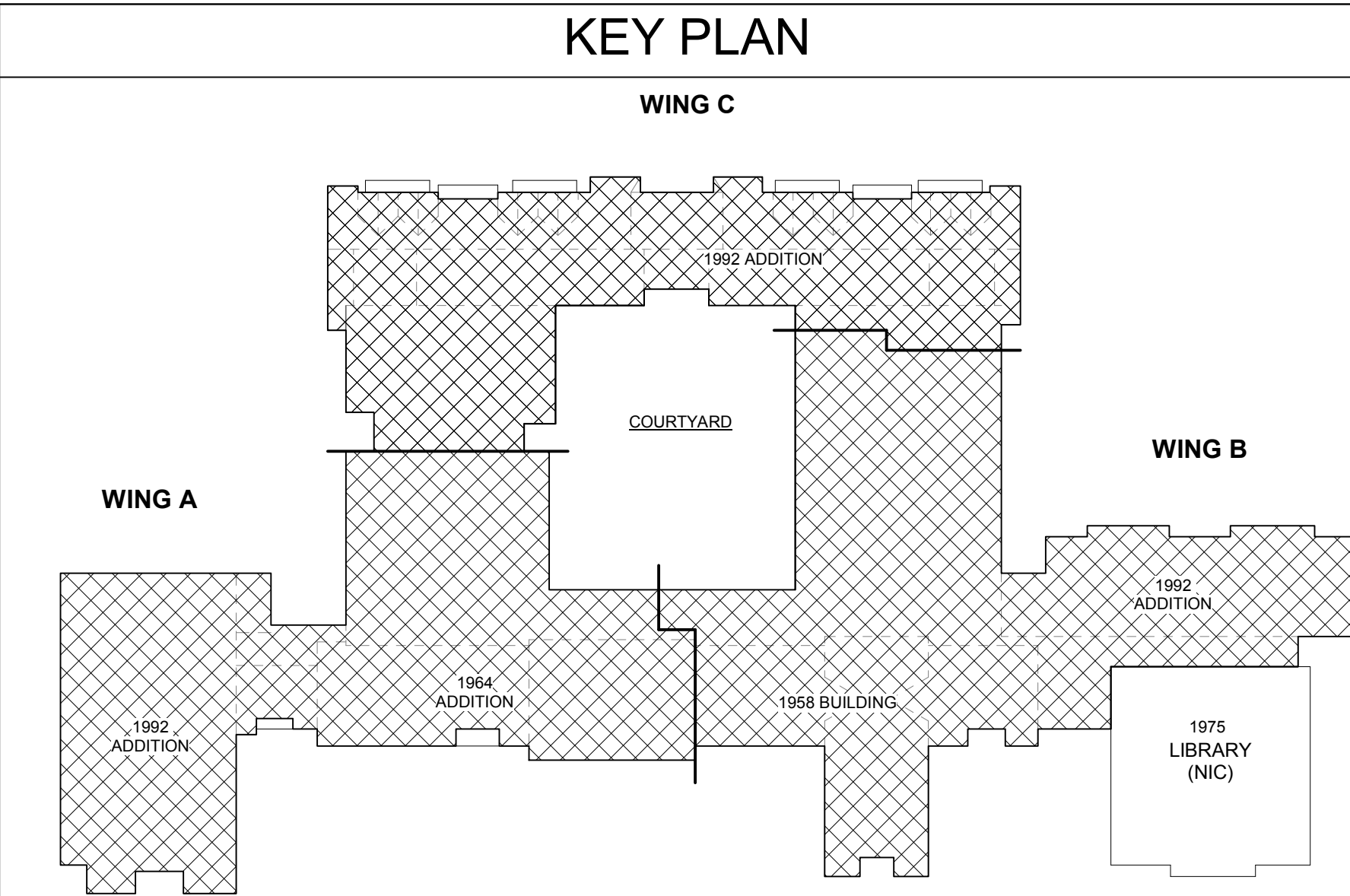
ATTIC PLAN NOTES

1. ACCESS TO CONCEALED SPACES IN THESE AREAS ARE THROUGH THE EXISTING ACOUSTIC CEILING TILE CEILING. PROVIDE TEMPORARY LADDERS AND WALKWAYS AS REQUIRED FOR INSTALLATION OF SPRINKLER SYSTEM.

2. PROVIDE NEW FIBERGLASS INSULATION R-21 AT GABLE END WALLS IN ATTIC/CONCEALED SPACES WITH VAPOR BARRIER FACING WARM SIDE - INCLUDE ATTACHMENT SYSTEM.

3. CLOSED-CELL POLYURETHANE SPRAY-FOAM INSULATION WITH INTUMESCENT COVERING:
PROVIDE 4" THICK SPRAYED FOAM INSULATION AT ALL ATTICS / CONCEALED SPACES ALONG EAVES/ PROVIDE INTUMESCENT COVERING OVER SPRAY FOAM INSULATION AS A CODE COMPLIANT THERMAL BARRIER AT ALL ATTICS / CONCEALED SPACES ALONG EAVES. BASIS OF DESIGN: STAYCELL 302 INSULATION SYSTEM WITH STAYCELL ONE STEP 255 INTUMESCENT COVERING BY PSI PREFERRED SOLUTIONS, INC. OR EQUAL. PROVIDE ICC EVALUATION REPORTS CONFIRMING SPRAY FOAM / INTUMESCENT COVERING SYSTEM COMPLIES WITH THE CODE FOR THERMAL BARRIERS OVER CLOSED CELL SPRAY FOAM INSULATION.

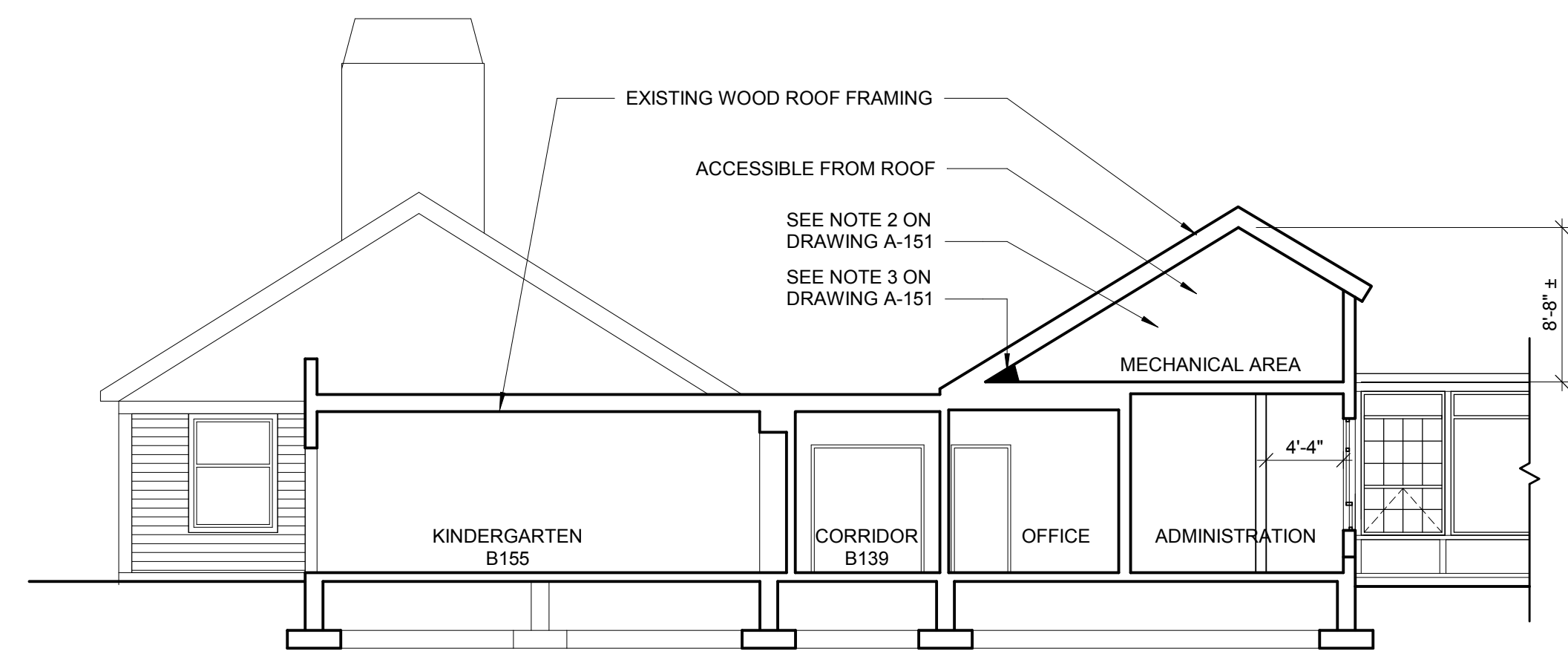
4. REMOVE ALL EXISTING FIBERGLASS INSULATION LOCATED ABOVE THE CEILINGS AND ACCESSIBLE FROM THE ATTIC SPACES - TYPICAL.



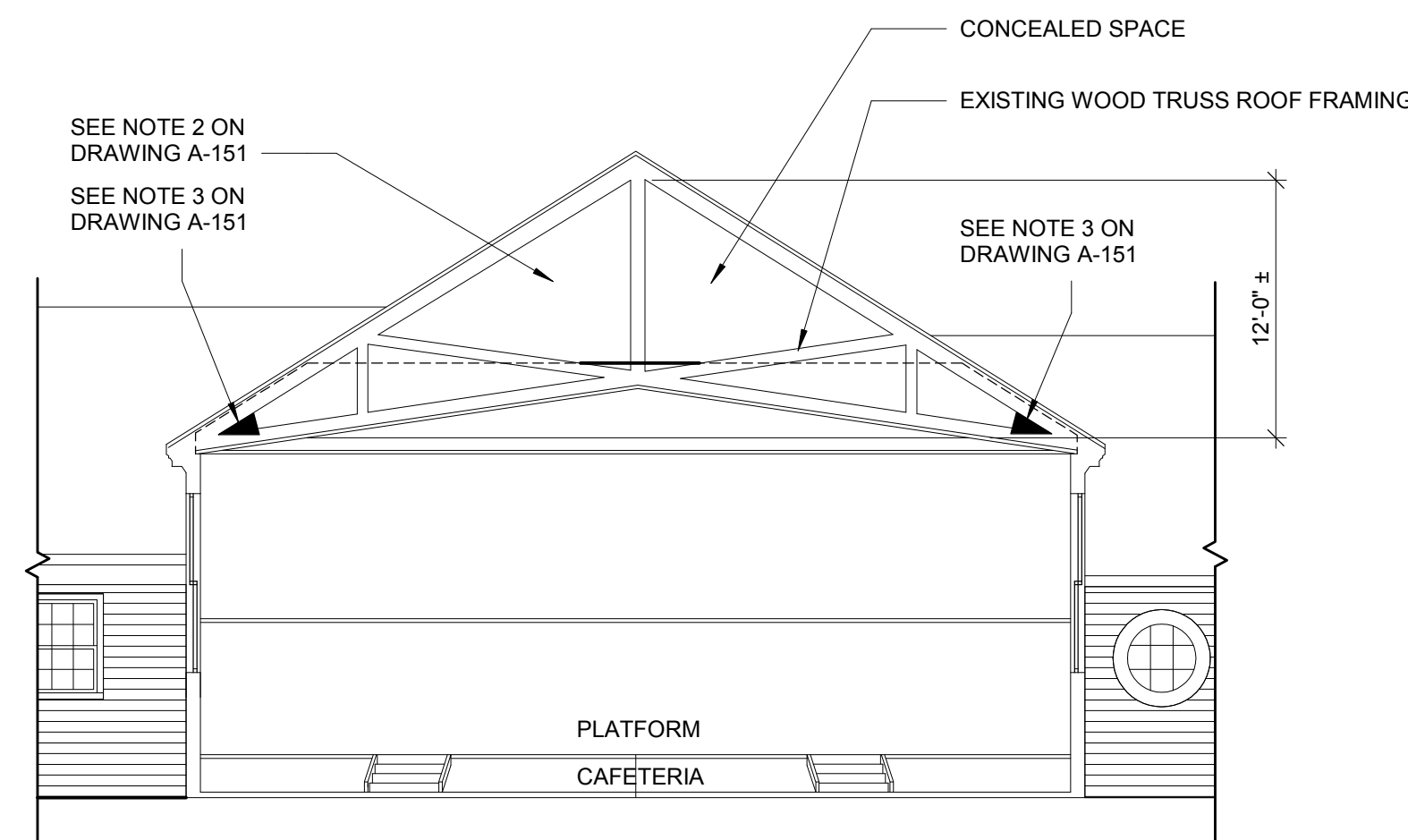
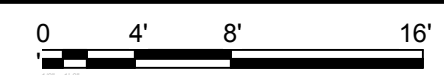
REVISION	DATE	REVISIONS
MARK	01-10-19	CONSTRUCTION DOCUMENTS

PROJECT NO: 1614.01
DATE: 01-16-19
SCALE: 1/16" = 1'-0"
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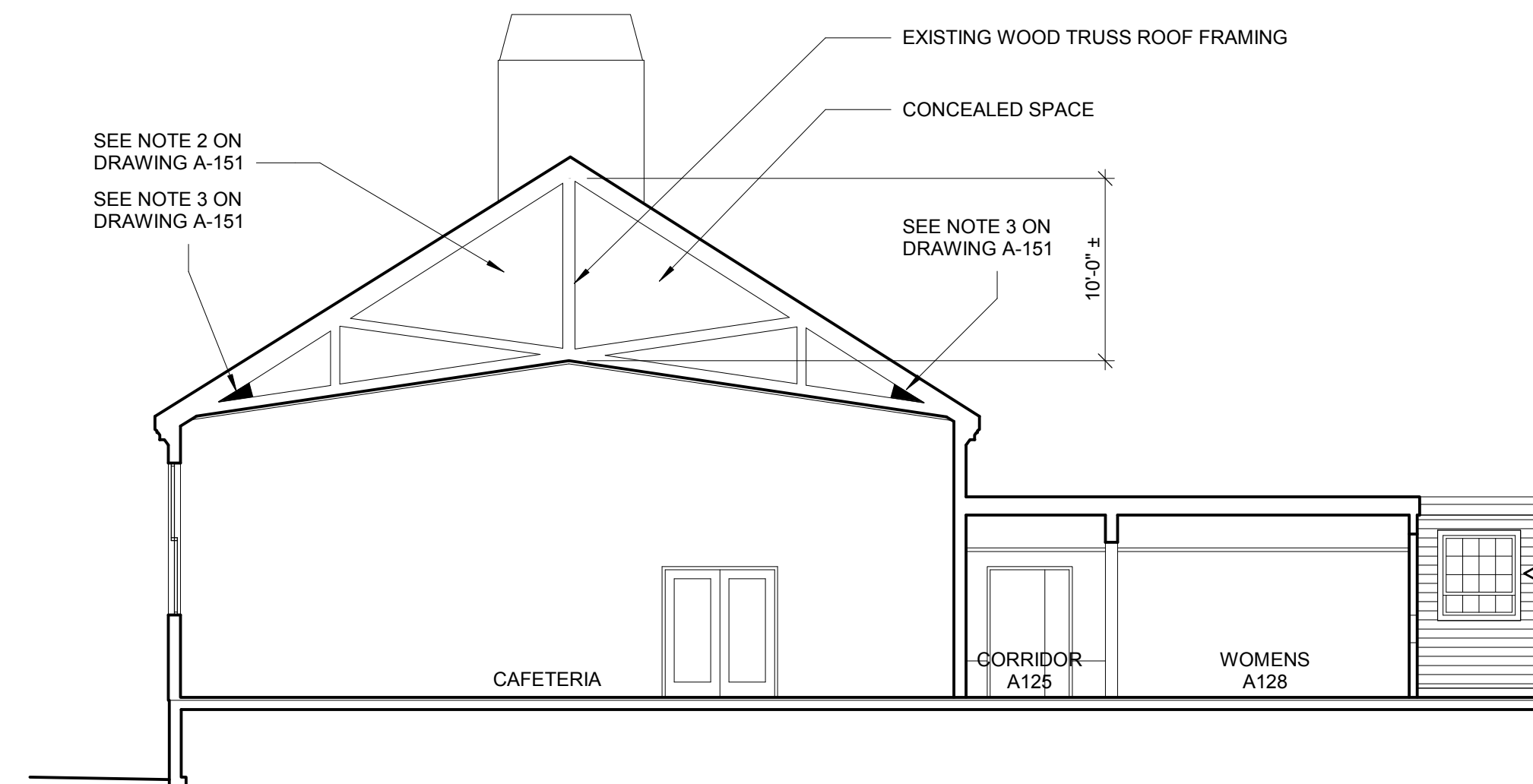
ATTIC PLAN



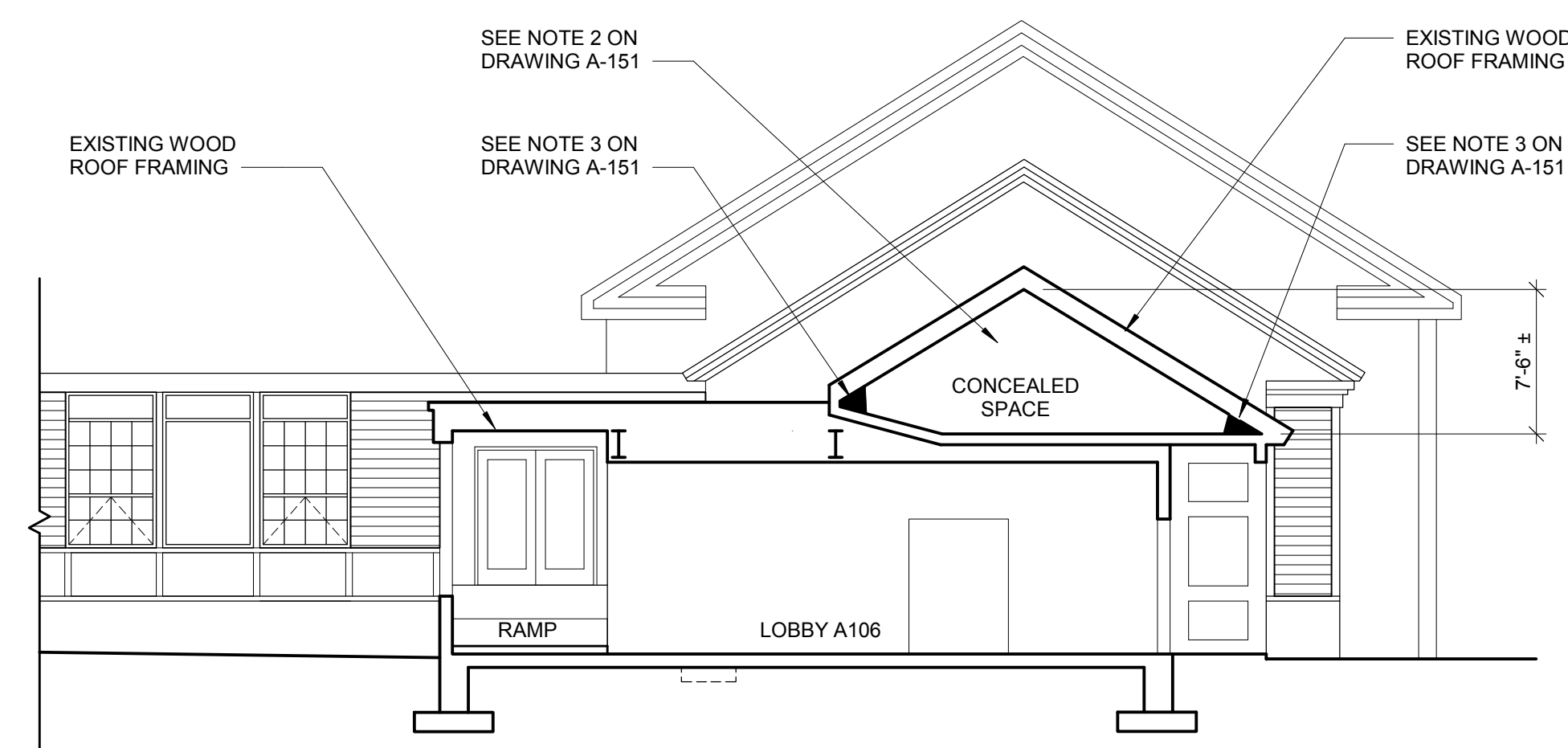
D1 BUILDING SECTION - WING B - KINDERGARTEN & ADMINISTRATION
1/8" = 1'-0"



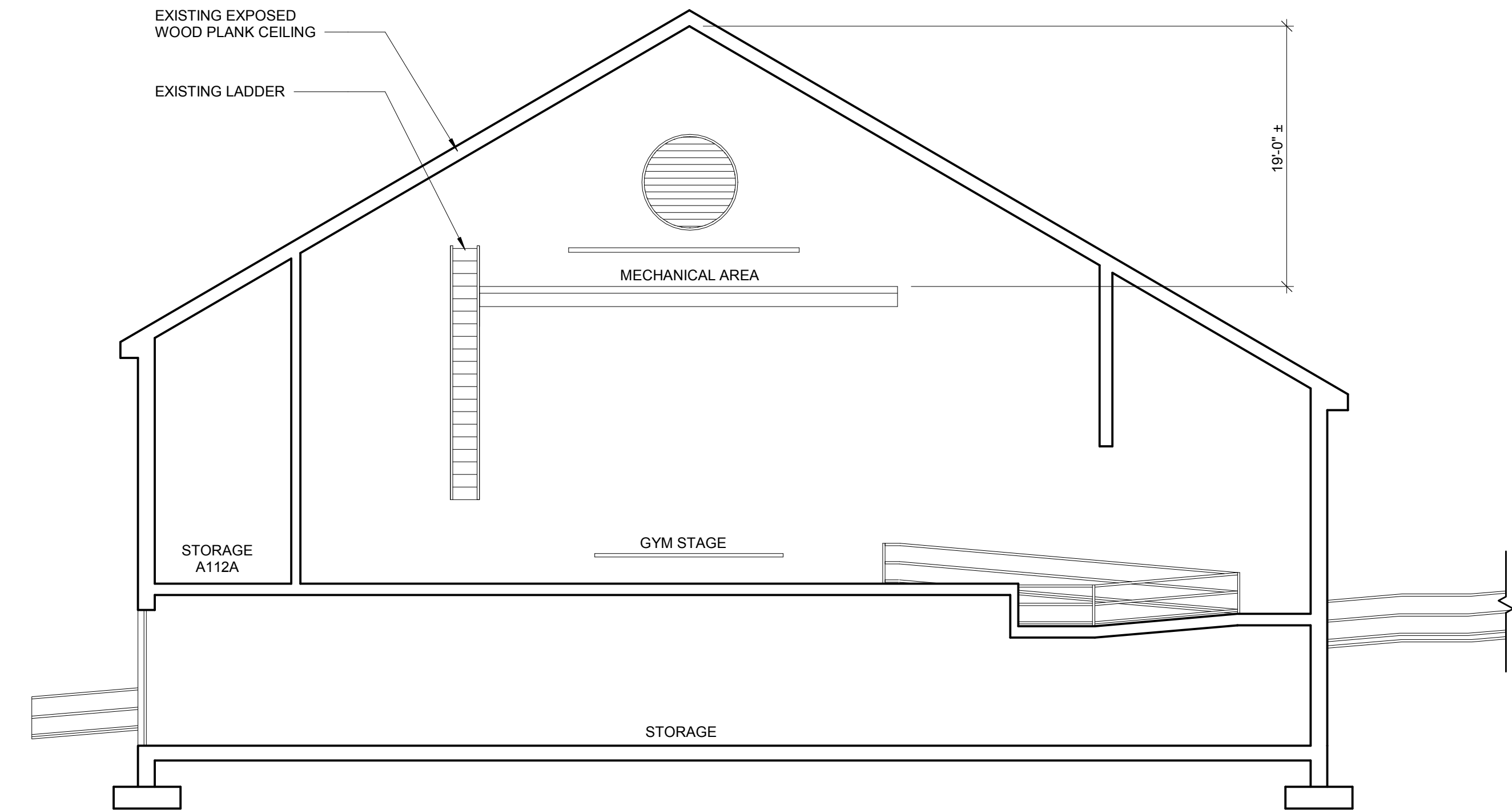
C1 BUILDING SECTION - CAFETERIA
1/8" = 1'-0"



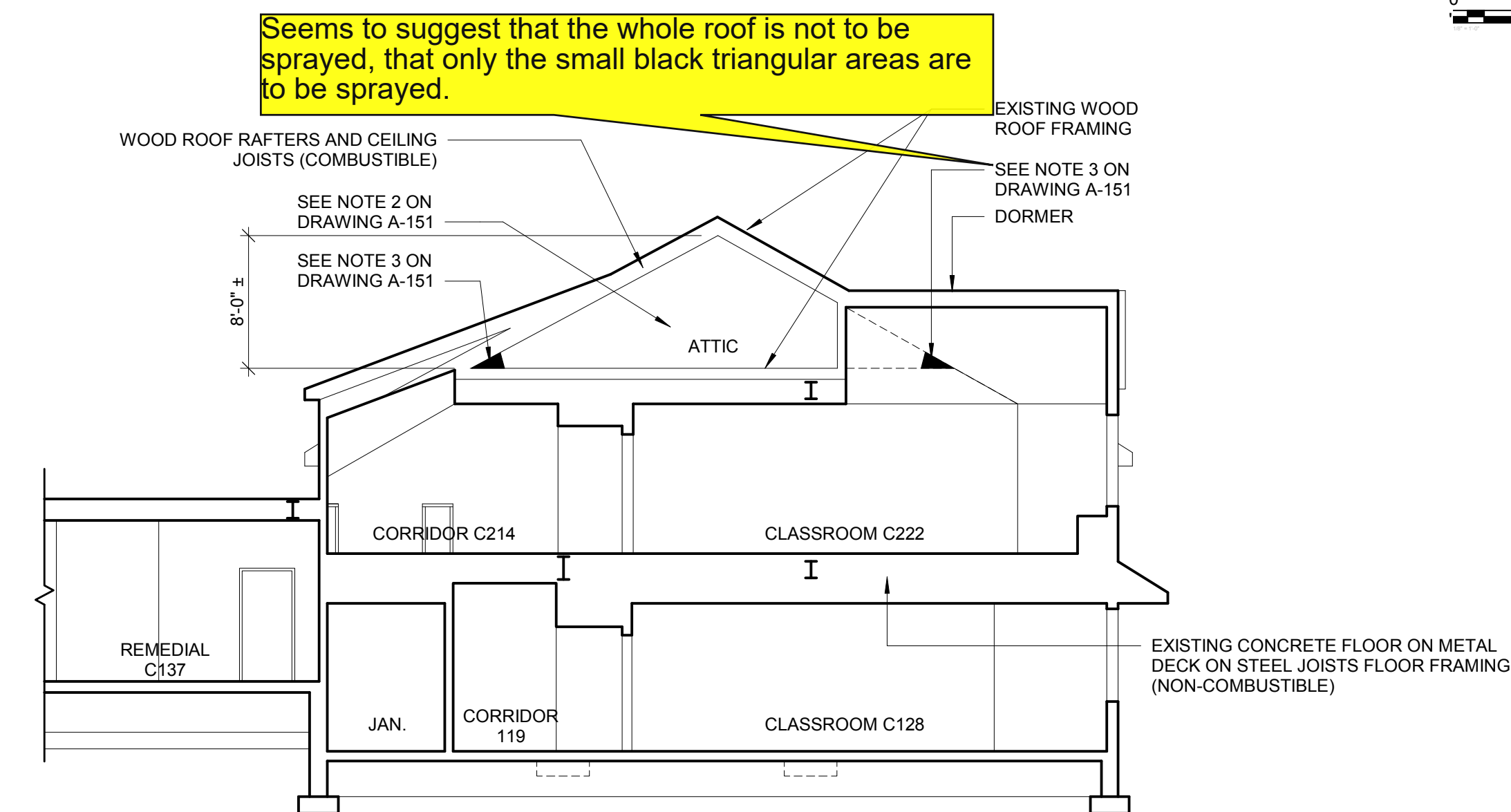
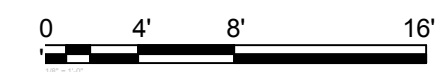
B1 BUILDING SECTION - CAFETERIA & BATHROOMS
1/8" = 1'-0"



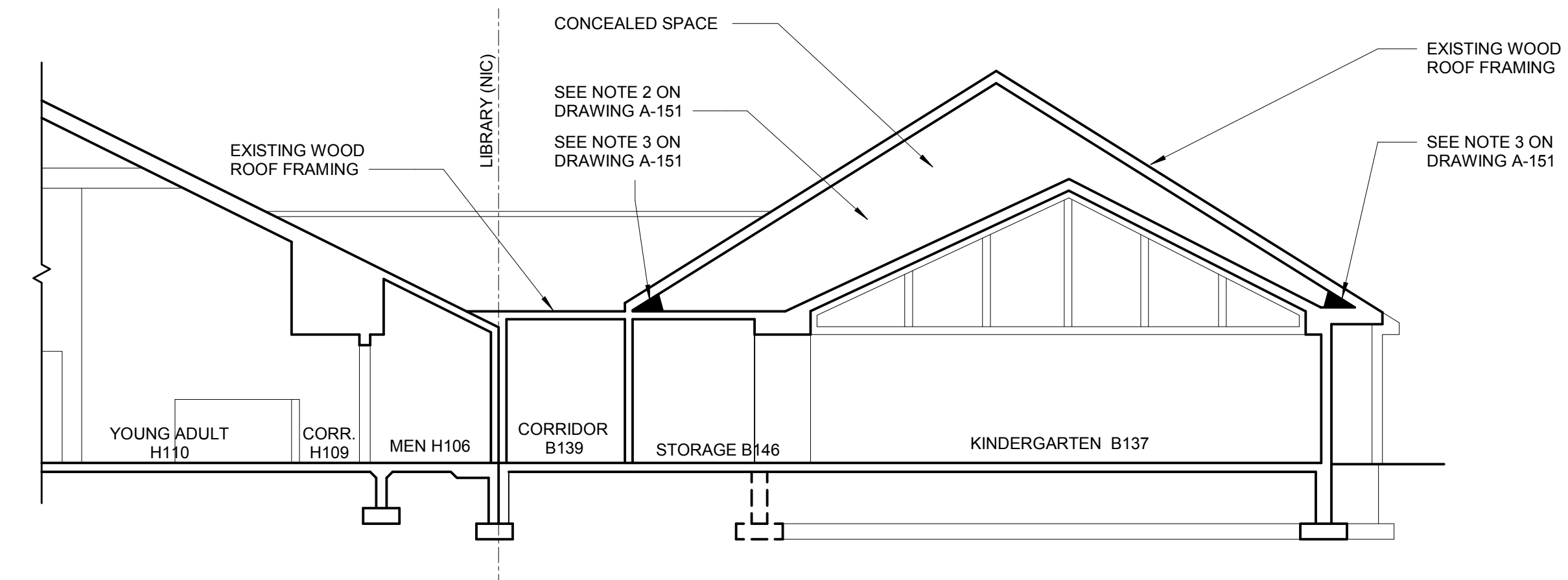
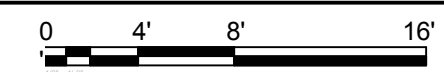
A1 BUILDING SECTION - WING A - ENTRY LOBBY
1/8" = 1'-0"



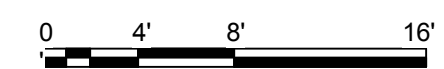
C3 BUILDING SECTION - GYMNASIUM
1/8" = 1'-0"



B3 BUILDING SECTION - WING C - CLASSROOM & SHED DORMER
1/8" = 1'-0"



A3 BUILDING SECTION - HOLMES LIBRARY - WING B - KINDERGARTEN
1/8" = 1'-0"



RFI # 1

REVISION	DATE	REVISIONS
MARK	DATE	CONSTRUCTION DOCUMENTS

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ATTIC SECTIONS

PART 2 – PRODUCTS

RFI # 1

2.01 FIBERGLASS INSULATION

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Johns-Manville.
 2. Guardian Knauf Insulation.
 3. Owens Corning.

2.02 SPRAYED-FOAM INSULATION AT GAPS PROTECTED BY THERMAL BARRIERS

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Great Stuff Pro by Dow.
 2. SuperGreen Foam by Foam-Tech Div. of H.C. Fennell.
 3. Pur Fill 1G by Todol Products.
 4. Zerodraft Z1-24 Foam Sealant by Zerodraft Div. of Canam Building Envelope Specialists.
- B. Sprayed-Foam Insulation: Water-cure closed cell polyurethane containing no urea-formaldehyde and no CFCs.

2.03 CLOSED-CELL POLYURETHANE SPRAY-FOAM INSULATION WITH INTUMESCENT THERMAL BARRIER COVERING

- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Staycell 302 insulation system with Staycell One Step 255 Thermal Barrier Intumescent Covering by PSI Preferred Solutions, Inc..
 2. JM Corbond III by Johns Manville spray foam system with thermal barrier intumescent coating Fireshell F10E by TPR².
 3. Foam-Lok 2000 by LaPolla Industries Inc. spray foam system with thermal barrier intumescent covering Fireshell F10E by TPR²
- B. Provide ICC Evaluation Reports confirming spray foam and intumescent covering (thermal barrier) system complies with the Code for thermal barriers over closed cell spray-foam polyurethane insulation.

PART 3 –EXECUTION**3.01 EXAMINATION**

- A. Examine substrates and conditions, with Installer present, for compliance with requirements of Sections in which substrates and related work are specified and for other conditions affecting performance.
1. Proceed with installation only after unsatisfactory conditions have been corrected.