

To: Mr. Kevin Mahoney	Date: August 11, 2014	Gale Job No. 828170 P03
Minuteman Regional High School 758 Marret Road Lexington, MA 02421	Re: Boiler Roof Replacement and Skylight Repairs Minuteman Regional Vocational Technical High School Lexington, MA	
RE: Stair Materials		

Remarks/Observations:

On Monday August 11, 2014 a representative from Gale Associates, Inc. (Gale) traveled to the above referenced site. The purpose of this visit was to review the report of unforeseen building construction material that had been found as a result of the demolition work. The following persons were on site or spoke with:

- Mr. Matt Maclean – Minuteman (by phone)
- Mr. Mario Marques – Capeway Roofing (by phone)
- Mr. Nevin Medeiros – Capeway’s demolition crew
- Mr. Carlos Daniel – Capeway’s demolition crew

The following items were discussed or observed:

1. At the request of Capeway, Gale travel to the site to observe the stair demolition work. Of specific concern was the stairway components that were located around the middle roof area.
2. Upon Gale’s arrival, Capeway’s demolition crew had removed that majority of the upper overburden components and had exposed the stairways that lead to the center portion of the roof; refer to photograph A.
3. Gale observed that the concrete material in this location appeared to be structural grade concrete that had been densely vibrated. Gale requested that Capeway’s demolition crew remove a section of the over burden at the lower limits of the stairway, which confirmed that the waterproofing system appears to extend under the stair system; refer to photograph B for location.



Photo A



Photo B

Minuteman Roof Replacement Site Visit 8/11/2014

- All parties discussed the concrete material, and that the original detail drawings which were used as the basis of Gale's design indicated that the stair material was light weight concrete fill; refer to Image C which is Gale's Sheet AD101, which includes scans of the original design drawing presented as Image D.

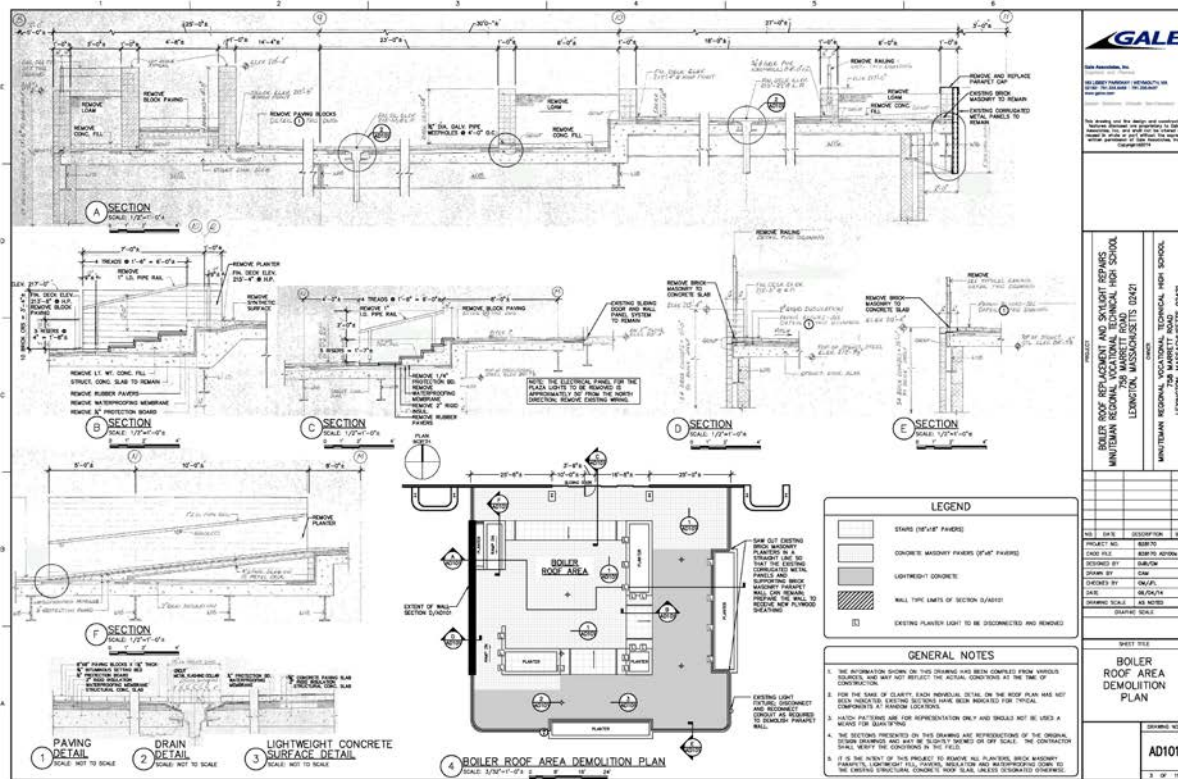


Image C – Gale’s Design Drawing which incorporates excerpts of the original design drawings.

- Gale’s drawing was modified to include the original design details, but incorporated the overburden substrates that were found on the existing roof system; refer to Image F.
- As the existing waterproofing and insulation system extended below the structural concrete stair system, these stairs needed to be removed, or trapped moisture would be present within the new roof system, which would result in moisture drive/condensation which would affect the bonding adhesives used for the roof components.
- Gale discussed the conditions with Minuteman via telephone, and discussed that the structural concrete material needed to be removed to prevent potential future delamination of the roof system.

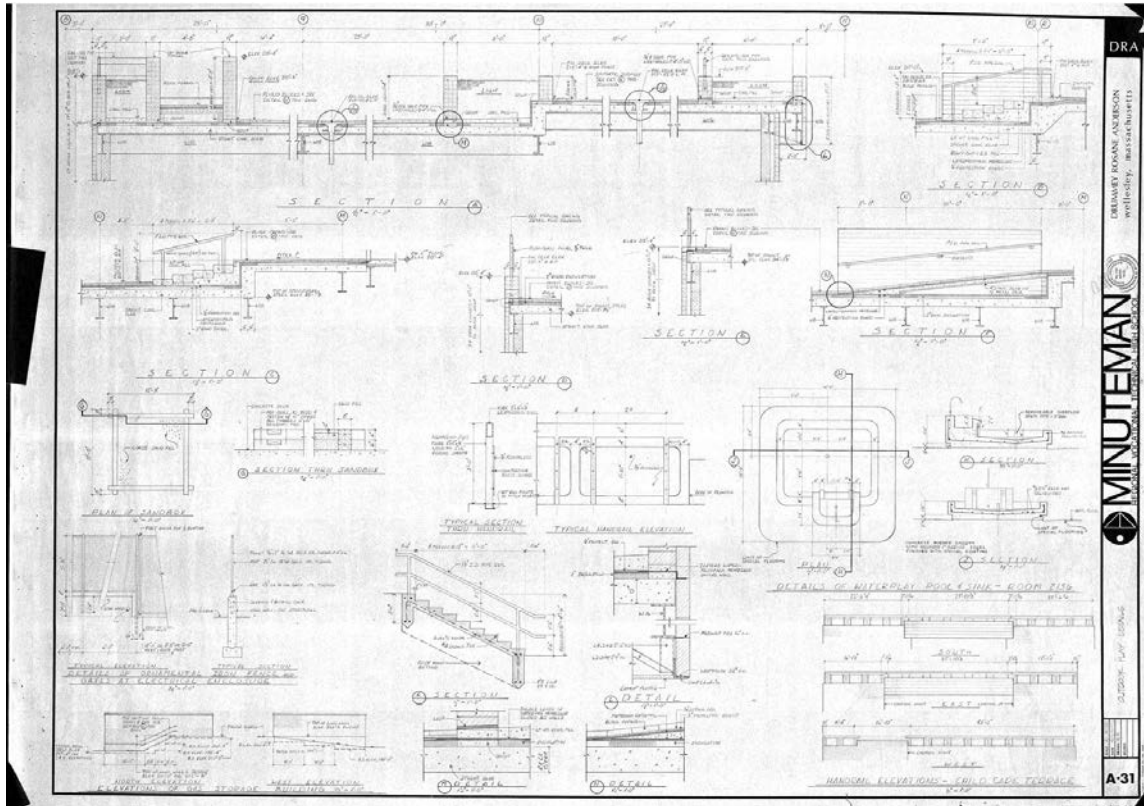


Image D – original design drawing used as a basis for design.

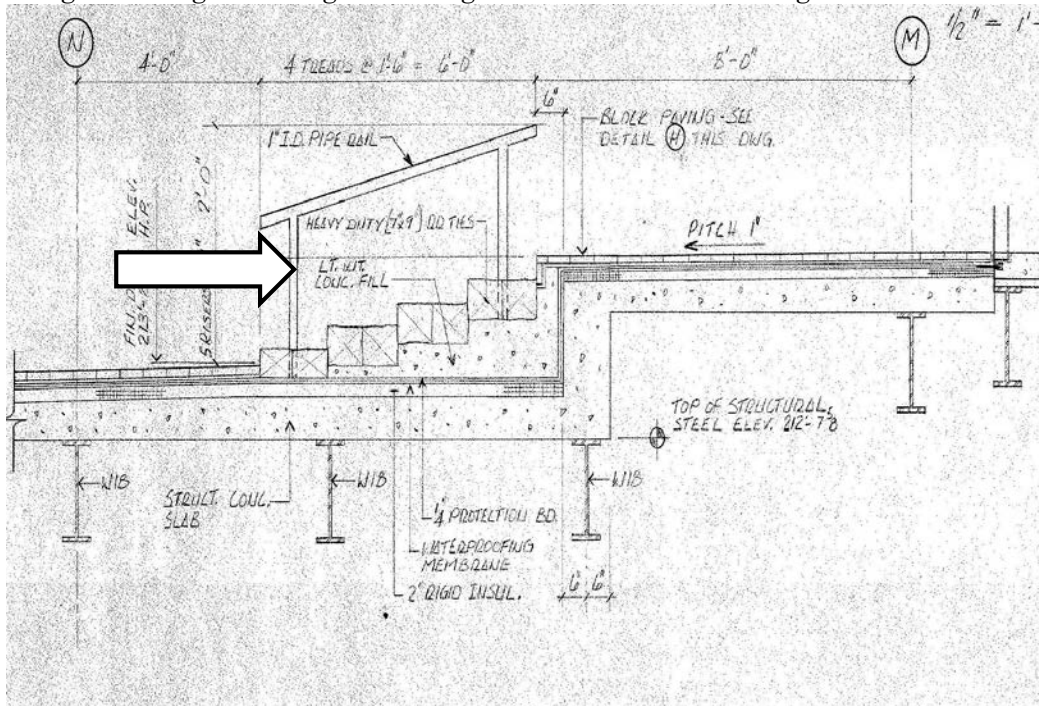


Image E – excerpt of the original building drawing, Section N, which references “Lt. Wt. Conc. Fill”.

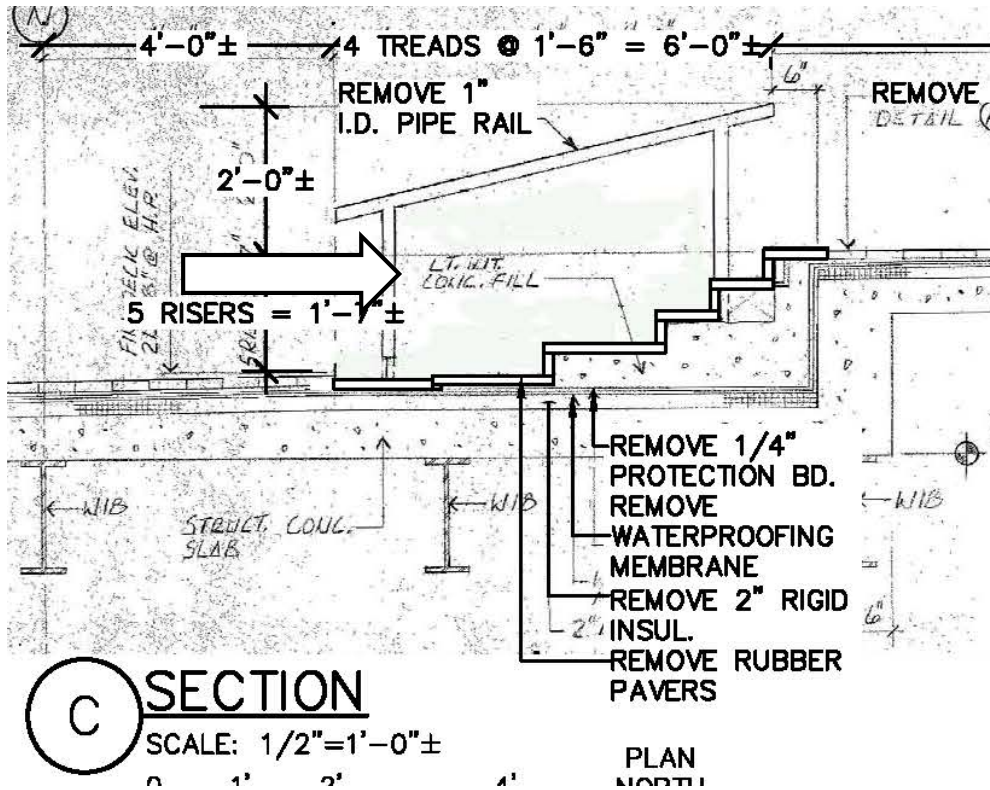
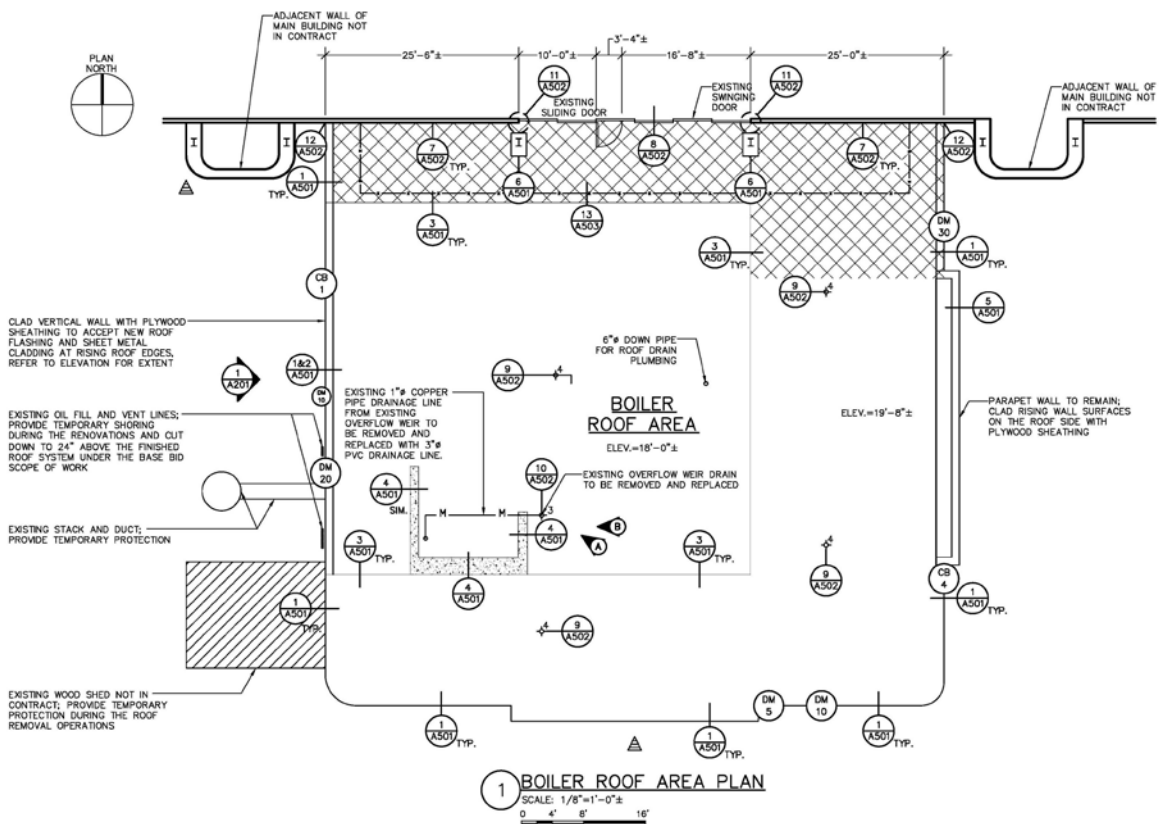


Image F – Gale’s Section C which reflects the original design drawings “Lt. Wt. Conc. Fill”



Minuteman Roof Replacement
Lexington, MA
Site Visit
August 11, 2014



Please be reminded that the recommendations generated by this office are based on the current industry design standards, and Gale's understanding of the design drawings and specifications. Any potential schedule or cost implications associated with these recommendations, are to be brought to the Owner's attention prior to implementation.

The above issues were noted by Gale on the date/time and at the location indicated. Correction of these issues is the responsibility of the Contractor, as is documentation of the correction, Gale bears no liability for further inspection of the issues identified. This list is not all inclusive and represents only those issues actually observed and noted by Gale personnel while on-site. Gale was asked to observe the foregoing construction elements only, and the absence of notations with respect to any other construction elements neither creates any liability on Gale's part, nor alters the Contractor's responsibility to complete all Work in accordance with the Contract Documents.

We trust this information serves your needs at this time. Should you have any questions or comments, please do not hesitate to contact me at this office.

CC:

Signed: *Christopher Musorofiti/cm*

Christopher Musorofiti, RRC
Project Manager

CM/cm

I:\828170\04 Construction\field reports\828170 Minuteman Roof site visit 2014 0811 cm.docx