

ADDENDUM NO. 3

**Chattanooga Public Library
Third Floor Roof
City Contract No. L-20-001
Chattanooga, Tennessee**

Date: 6 August 2020

The following amendments to the specifications and/or revisions to the drawings shall be a part of the contract documents. Bidders therefore shall consider them when preparing cost estimates, and the contractors shall be bound by them.

PRE-BID ADDENDANCE LIST

Attached as part of this addendum

SPECIFICATIONS

Section 01 10 00 Scope of Work and Summary

Delete note "(see section 01 32 16 for access during events)" There are no special access requirements during events.

Part 1.04 Add:

C. No access will be allowed for materials or construction personnel through the interior of the building.

Section 01 50 00 Temporary Facilities and Controls

Part 1.06 Security: Delete paragraph B and substitute:

B. Temporary access to roof from exterior shall be secured to prevent access when workers are not present.

Part 1.08 Removal of Utilities, Facilities and Controls, Paragraph C. Change to read:

C. Restore existing facilities and site to condition found at beginning of construction.

Section 06 10 00 Rough Carpentry

Part 1, Add:

1.03 Submittals: Submit for species and certification of preservative treated lumber for approval. See Section 01 30 00 Administrative Requirements for submittal procedure.

Paragraph 3.03 Roof Related Carpentry – Add:

B. All lumber shall be preservative treated.

Section 07 53 23 – EPDM Thermoset Single Ply Roofing

There are two copies of this specification in the documents. Delete both copies and insert the attached Section 07 53 23.

DRAWINGS

Sheet A-132 Third Floor Roof Plan and Index of Drawings

Third Floor Roof Plan Add note at existing roof overflow drains that reads "Existing overflow drain. Install flashing membrane with worm clamp and top with PMMA Liquid Flashing"

Sheet A-402 Roof Details

Re-issued and attached as part of this addendum.

PRE-CON MEETING SIGN-IN SHEET

Project: Downtown Library ADA Restrooms *3rd Floor Roof* **Meeting Date:** 2020/8/4 *11:30 A*

Facilitator: COC **Place/Room:** DRC Room 2D *Downtown Library*

Project: Downtown Library ADA Restrooms *3rd floor Roof*

Name/Company	Title	E-Mail/Phone
Jason Payne /COC	PM	jpayne@chattanooga.gov / 423-843-5815
Ty Honkle / Eskola Roofing	Estimator	tyhonkle@eskola.com tyhonkle@eskolaroofing.com 423-438-8202
Tommy Miller / Foam-Crete	PM	tommy@foam-crete.net
Jason Sullivan Library	cao	jsullivan@chattanooga.gov
Bill Wilkerson / DHW	PARTNER	bill@dhw-architects.com
T Graham Wright Brothers	PM	tgraham@wbcci.com
Stacy Sanders Porter Roofing	ESTIMATOR	stacy@porter-roofing.com
BONNIE MUNFONER DODSON	OC	BMUNFONER@CHATTANOOGA.GOV
DEBBIE TALLEY	OC	DTALLEY@CHATTANOOGA.GOV
Max Chor	PM	maxchorosny.com / 404-429-9448 (770) 207-5277
Jeremy Markham / DUSTY GREER ROOFING	PM	DUSTYGREERROOFING@YAHOO.COM
Christy Fetty TSR	Est.	cfetty2etstateroofing.com
Corinne Hill / Lib	Director	chill@lib.chattanooga.gov
Sarah Eskola / Eskola LLC	Estimator	saraheskola@eskolaroofing.com

SECTION 07 53 23
EPDM THERMOSET SINGLE-PLY ROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Fully adhered roof system with ethylene propylene diene monomer (EPDM) roofing membrane.
- B. Vapor retarder.

1.02 RELATED REQUIREMENTS

- A. Section 06 10 00 - Rough Carpentry: Wood nailers and curbs.
- B. Section 07 01 50.19 - Preparation for Re-Roofing.
- C. Section 07 62 00 - Sheet Metal Flashing and Trim: Counterflashings, reglets and Stainless steel trim.

1.03 REFERENCE STANDARDS

- A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- B. ASTM D4263 - Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method; 1983 (Reapproved 2012).
- C. ASTM D4637/D4637M - Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane; 2015.
- D. NRCA (RM) - The NRCA Roofing Manual; 2018.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene one week before starting work of this section.
 - 1. Review preparation and installation procedures and coordinating and scheduling required with related work.

1.05 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide manufacturer's written information listed below.
 - 1. Product data indicating membrane materials, flashing materials, surfacing, and adhesives.
 - 2. Preparation instructions and recommendations.
- C. Shop Drawings: Installer is required to install all flashing details in strict accordance with manufacturer's recommended detail. Indicate manufacturer's flashing details..
- D. Specimen Warranty: For approval.
- E. Warranty:
 - 1. Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.
 - 2. Submit installer's certification that installation complies with all warranty conditions for the waterproof membrane.
- F. Installer's Qualification Statement. (prior to award of contract)

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum twenty (20) years of documented experience.
- B. Installer Qualifications: Company specializing in performing the work of this section:
 - 1. With minimum ten years' documented experience. Documentation required prior to issuing a contract for construction.
 - 2. Approved by membrane manufacturer.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products in manufacturer's original containers, dry, undamaged, with seals and labels intact.
- B. Protect products in weather protected environment, clear of ground and moisture.
- C. Keep Safety Data Sheets (SDS) at the project site at all times during transportation, storage, and installation of materials.
- D. Comply with requirements from Owner to prevent overloading or disturbance of the structure when loading materials onto the roof.

1.08 FIELD CONDITIONS

- A. Do not apply roofing membrane during unsuitable weather. Refer to manufacturer's written instructions.
- B. Do not apply roofing membrane when ambient temperature is below 40 degrees F (5 degrees C) or above 95 degrees F (____ degrees C).
- C. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- D. Proceed with work so new roofing materials are not subject to construction traffic as work progresses.
- E. Do not allow grease, oil, fats, or other contaminants to come into direct contact with membrane.

1.09 WARRANTY

- A. See Section 01 78 00 - Closeout Submittals, for additional warranty requirements.
- B. Material Warranty: Provide membrane manufacturer's warranty agreeing to replace material that shows manufacturing defects within 25 years after installation.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Basis of Design: Carlisle FleeceBack 145-mil (90 mil membrane plus fleece back.
- B. Equal Products from Versico, Firestone, Johns Manville will be considered.
- C. Substitutions: See Section 01 60 00 - Product Requirements.

2.02 ROOFING APPLICATIONS

- A. EPDM Membrane Roofing: One ply membrane, fully adhered.
- B. Roofing Assembly Performance Requirements and Design Criteria:
 - 1. Wind Uplift:
 - a. Designed to withstand wind uplift forces calculated with ASCE 7.
 - b. Design Wind Speed: In accordance with local building code and authorities having jurisdiction (AHJ).

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

- A. Membrane:
 - 1. Material: Ethylene propylene diene monomer (EPDM); ASTM D4637/D4637M, Type I (non-reinforced).
 - 2. Thickness: 90 mils (0.090 inch) (2.3 mm), minimum plus the fleece back.
 - 3. Sheet Width: Factory fabricated into largest sheets possible.
 - 4. Color: Black.
- B. Seaming Materials: As recommended by membrane manufacturer.
- C. Vapor Retarder: Material approved by roof manufacturer complying with requirements of fire rating classification; compatible with roofing and insulation materials.
 - 1. Fire-retardant adhesive.
- D. Flexible Flashing Material: Same material as membrane.

- E. Base Flashing: Provide waterproof, fully adhered base flashing system at all penetrations, plane transitions, and terminations.

2.04 ACCESSORIES

- A. Prefabricated Flashing Accessories:
 - 1. Corners and Seams: Same material as membrane, in manufacturer's standard thicknesses.
 - 2. Penetrations: Same material as membrane, with manufacturer's standard cut-outs, rigid inserts, clamping rings, and flanges.
 - 3. Sealant Pockets: Same material as membrane, with manufacturer's standard accessories, in manufacturer's standard configuration.
 - 4. Sure-Seal Pressure-Sensitive Reinforced Universal Securement Strip (RUSS):
- B. Membrane Adhesive: As recommended by membrane manufacturer.
- C. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.
- D. Sealants: As recommended by membrane manufacturer.
- E. Cleaner: Manufacturer's standard, clear, solvent-based cleaner.
- F. Edgings and Terminations: Manufacturer's standard edge and termination accessories.
 - 1. Termination Bar - stainless steel
- G. Roof Drain Strainers:
 - 1. Replace existing with Dome type strainers
 - a. Size: Field verify
 - b. Material: Cast Iron
 - c. Finish: Baked powder coated finish
 - d. Manufacturers: Zurn, Josam, J.R. Smith

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that surfaces and site conditions are ready to receive work.
- B. Verify deck is clean and smooth, flat, free of depressions, waves, or projections, properly sloped and suitable for installation of roof system.
- C. Verify deck surfaces are dry and free of snow or ice.
- D. Verify that roof openings, curbs, and penetrations through roof are solidly set, and nailing strips are in place.

3.02 PREPARATION, GENERAL

- A. Clean substrate thoroughly prior to roof application.

3.03 CONCRETE DECK PREPARATION

- A. Fill surface honeycomb and variations with latex filler.
- B. Confirm dry deck by moisture meter with 12 percent moisture maximum when tested per ASTM D4263.

3.04 INSTALLATION - GENERAL

- A. Perform work in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.
- B. Do not apply roofing membrane during unsuitable weather.
- C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.
- D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.
- E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

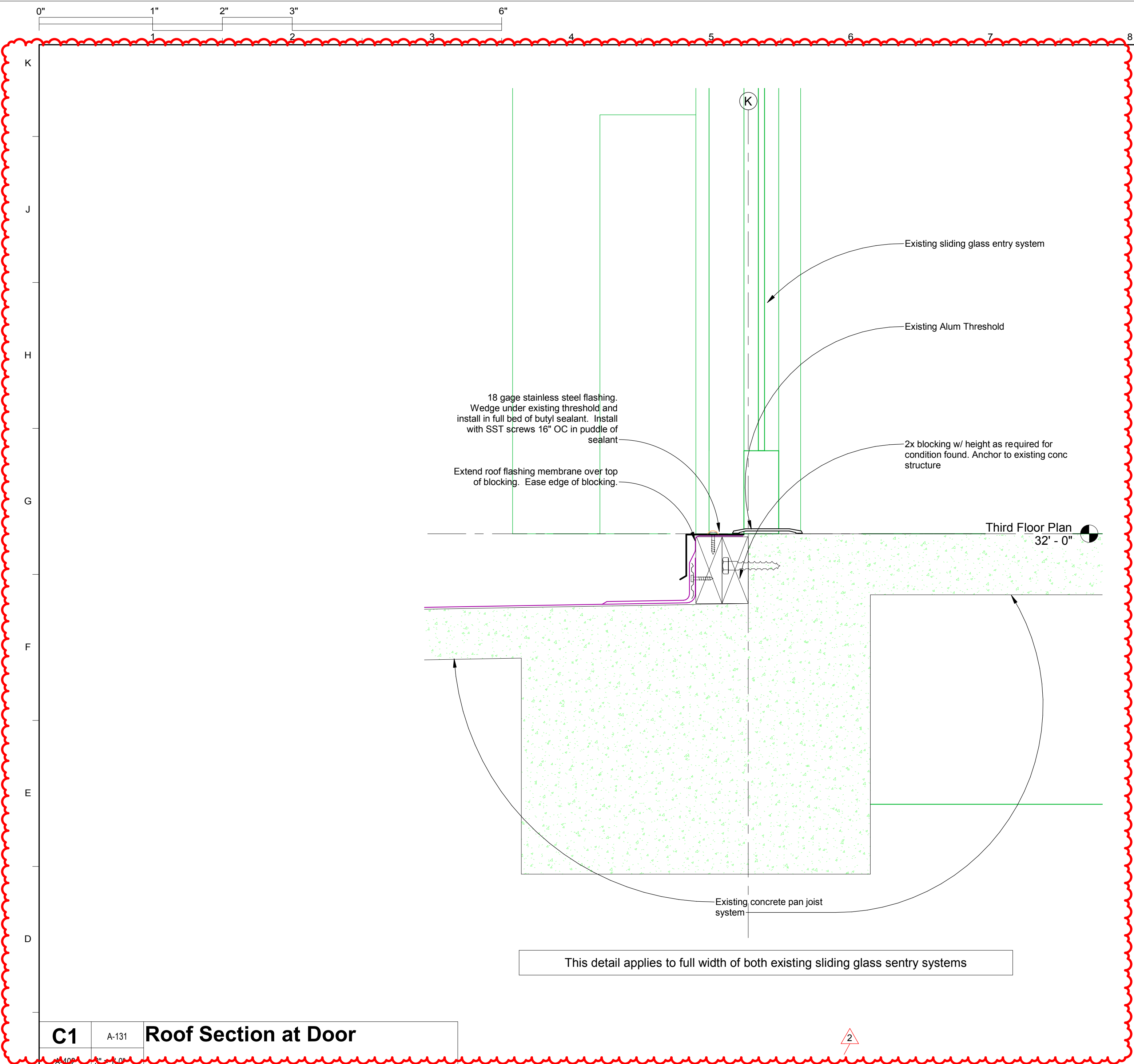
3.05 VAPOR RETARDER APPLICATION

- A. Apply vapor retarder to deck surface with adhesive in accordance with manufacturer's instructions.
 - 1. Extend vapor retarder under cant strips and blocking to deck edge.
 - 2. Install flexible flashing from vapor retarder to air seal material of wall construction, lap and seal to provide continuity of the air barrier plane.
- B. Ensure vapor retarder is clean and dry, continuous, and ready for application of insulation.

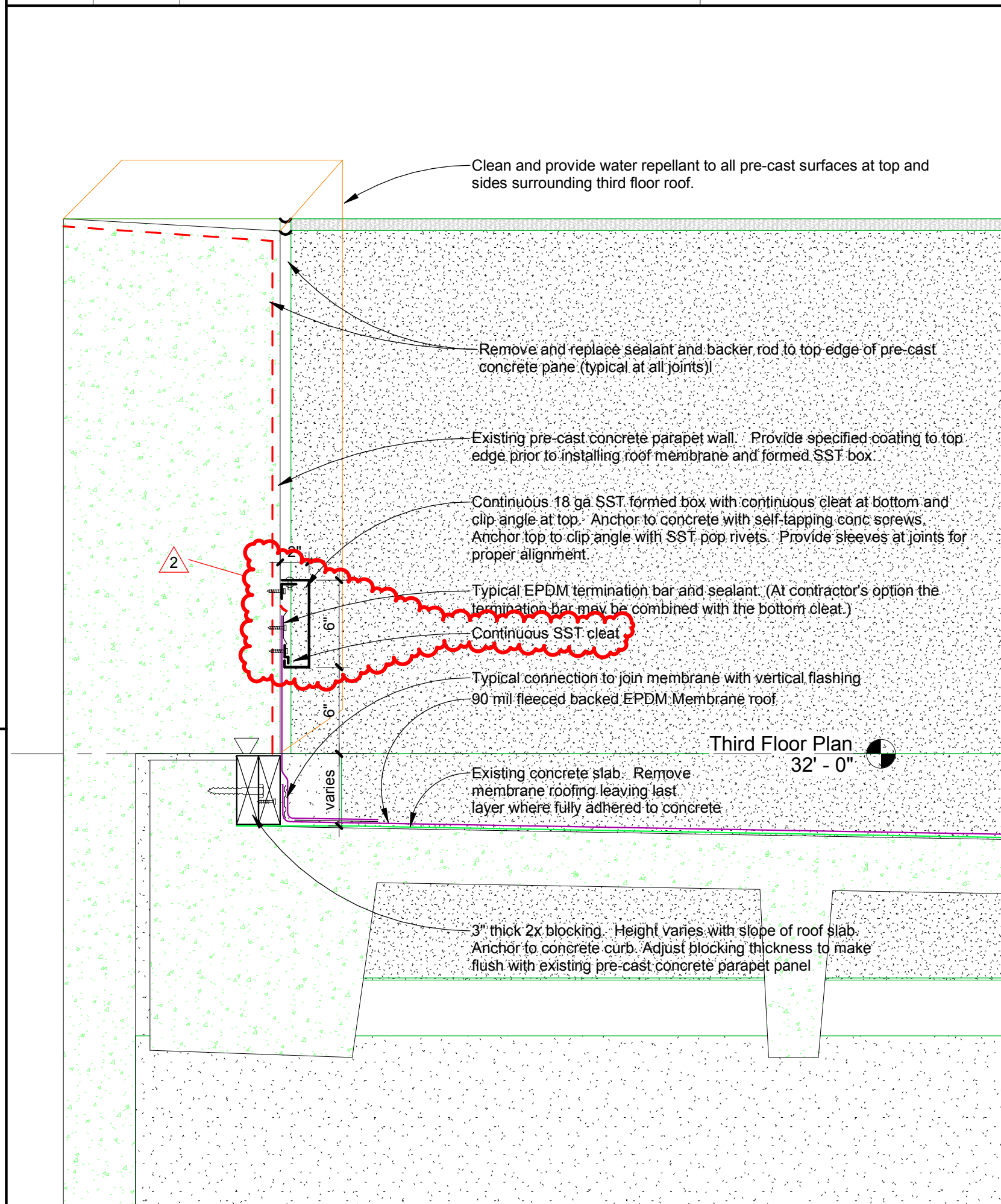
3.06 MEMBRANE APPLICATION

- A. Roll out membrane, free from wrinkles or tears. Place sheet into place without stretching.
- B. Shingle joints on sloped substrate in direction of drainage.
- C. Fully Adhered Application: Apply adhesive at manufacturer's recommended rate. Fully embed membrane in adhesive except in areas directly over or within 3 inches (75 mm) of expansion joints. Fully adhere one roll before proceeding to adjacent rolls.
- D. Overlap edges and ends and seal seams by contact adhesive, minimum 3 inches (75 mm). Seal permanently waterproof.
- E. At intersections with vertical surfaces:
 - 1. Extend membrane over cant strips and up a minimum of 4 inches (100 mm) onto vertical surfaces.
 - 2. Fully adhere flexible flashing over membrane and up to nailing strips.
- F. Coordinate installation of roof drains and sumps and related flashings. Locate all field splices away from low areas and roof drains. Lap upslope sheet over downslope sheet.
- G. Daily Seal: Install daily seal per manufacturers instructions at the end of each work day. Prevent infiltration of water at incomplete flashings, terminations, and at unfinished membrane edges.

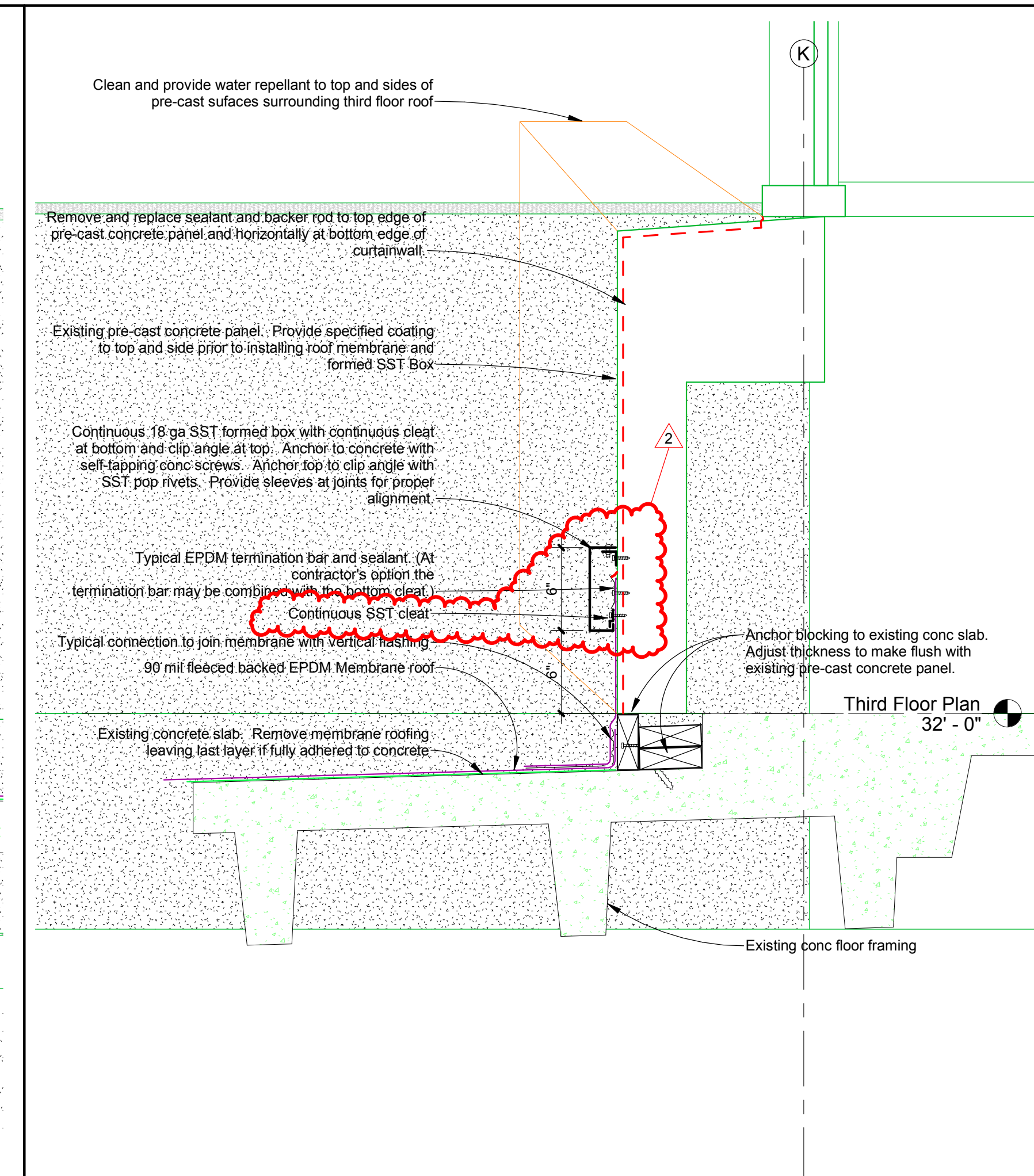
END OF SECTION



F8 A-131 Section thru Roof and Parapet Walls
A-402 1/4" = 1'-0"

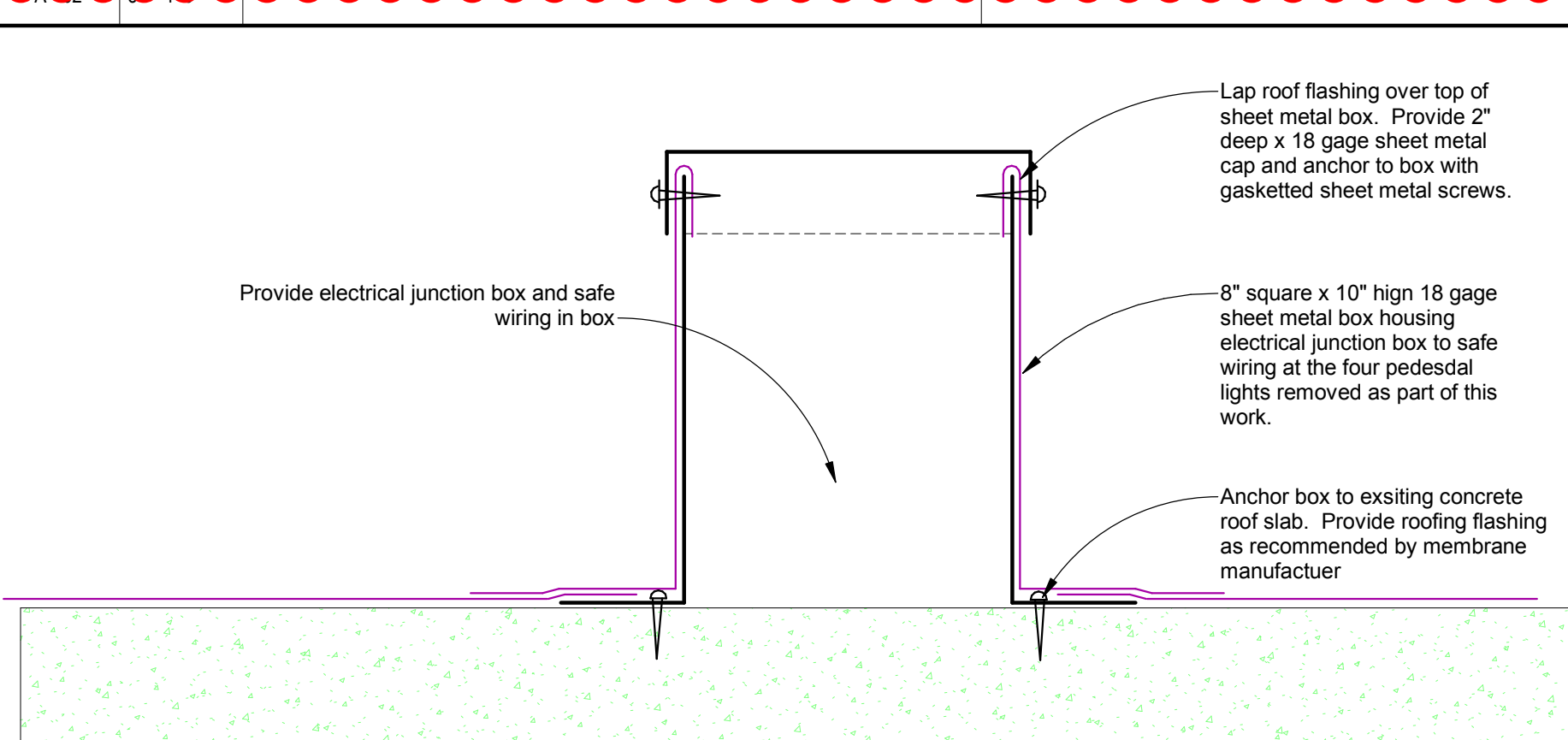


A8 A-402 Roof Parapet Detail
A-402 1 1/2" = 1'-0"



A13 A-402 Detail at Office Wall
A-402 1 1/2" = 1'-0"

C1 A-131 Roof Section at Door
A-402 1/4" = 1'-0"



A1 Electrical Box at Roof
A-402 3" = 1'-0"

Revisions: 2 Addendum 3 6 Aug 20
~~1 Addendum 3 5 Aug 20~~



Title:

Roof Details

Sheet No.

A-402



Derthick Henley & Wilkerson Architects
1001 Carter Street
Chattanooga, TN 37404
(423) 266-4816

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Chattanooga Downtown
Public Library
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