



ADDENDUM #3

January 10, 2013

Re: Harrisburg Area Community College
Central Administration – Wildwood Conference Center Renovations
Phase 2 - Demolition
Solicitation # RFB13-12

From: Eastern PCM, LLC
Construction Manager – HACC
645 N. 12th Street, Suite 200
Lemoyne, PA 17043

To: All Planholders

This Addendum is hereby made part of the Plans dated December 10, 2012 and Project Manual dated December 14, 2012 for the above referenced project. The provisions of this Addendum are intended to supplement the provisions of the Plans and Project Manual and/or supersede them where contradictory thereto.

This Addendum contains changes to the requirements of the Plans and Project Manual. Such changes shall be incorporated into the Plans and Project Manual and shall apply to work with the same meaning and force as if they had been included in the original Plans and Project Manual. Where this Addendum modifies a portion of a paragraph or phrase of the Project Manual, the remaining unmodified portion of the paragraph or phrase shall remain in force.

The conditions and terms of the Plans and Project Manual shall govern work described in this Addendum. Whenever the conditions of work, or the quality or quantity of materials or workmanship are not fully described in this Addendum, the conditions of work etc. included in the Plans and Project Manual for similar items of work shall apply to the work described in this Addendum. If no similar items of work are included in the Plans and Project Manual, the quality of material and workmanship shall be subject to the written acceptance of the Architect.

3.1 CHANGES TO ADDENDUM #1

- A. Paragraph 2.5.A: Removal of the skylight, curb, steel plate, metal studs, clip angles, gypsum board, and blocking as indicated on RD-16 of the DRM is the responsibility of Contract No. 1.
- B. Paragraph 2.5.G: Back rod and sealant shown on RD-1 of the DRM is the responsibility of Contract No. 1.

3.2 CHANGES TO THE SPECIFICATIONS

A. 01125 – Summary of Contracts

a. Bid Package A – Phase 2 Contract No. 1 – Roof Replacement

1. ADD “2.l. Removal and replacement of rooftop equipment, if necessary.”
2. ADD “2.m. Installation of new roof drains and extensions.”
3. ADD “2.n. Removal of cooling tower relief vents and associated blocking, etc. as indicated”
4. ADD “2.o. Roof patching as required.”
5. ADD “2.p. Roof curbs for installations associated with the work of this Contract.
6. ADD “2.q. Removal and replacement of roof ballast as indicated.”
7. ADD “2.r. Removal of existing aluminum gravel stop/fascia, backer rod, sealant, and blocking as indicated.”
8. ADD “2.s. Removal of skylight, curb, steel plate, metal studs, clip angles, gypsum board, and blocking as indicated.”

b. Bid Package B – Phase 2 Contract No. 2 – Exterior Repairs and Renovations

1. ADD “2.t. Roof curbs for installations associated with the work of this contract.”

B. 07540 – Thermoplastic Membrane Roofing

- a. Paragraph 1.08.J: DELETE this paragraph in its entirety.
- b. Paragraph 1.09.B.1: REVISE to read “With minimum five years documented experience on similar size projects.”
- c. Paragraph 1.09.B.2: REVISE to read “Written documentation by the membrane manufacturer certifying the installer is an approved contractor.”
- d. Paragraph 2.03.A.3: REVISE to read “Thickness: 0.060 inch (1.5mm), minimum.”
- e. Paragraph 2.03.A.5: REVISE to read “Solar Reflectance: 0.79, minimum initial and 0.70, minimum, 3 year when tested in accordance with ASTM C1549.”
- f. Paragraph 2.03.A.6: REVISE to read “Thermal Emittance: 0.90, minimum initial and 0.86 minimum, 3 year when tested in accordance with ASTM C1549.”

g. Section 2.06: REVISE entire section to read as follows:

“2.06 ACCESSORY MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with membrane roofing.
- B. Flashing: Same membrane as specified above.
 - 1. For vent stacks, pipes, drains, and corners: Prefabricated pipe boots and inside and outside corners provided by manufacturer.
 - 2. Field-fabricated flashing for vent stacks, pipes, drains, and corners: 0.055 inch (1.40 mm) thick, ethylene-propylene-based membrane.
- C. Bonding Adhesive: Bonding adhesive.
 - 1. Contact cement to adhere membrane and flashings to various substrates e.g., insulation surfaces, masonry surfaces, plywood, concrete, or metal.
 - 2. It is not acceptable to use bonding adhesive in the seams.
- D. Perimeter Sheets: As specified in Part 3.
- E. Metal Termination Bars: Manufacturer's standard predrilled stainless steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.
- F. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.
- G. Cut-Edge Sealant: Use to seal exposed cut edges of reinforced membrane.
- H. Seam Cleaner: Use to remove contaminants from the surface of the membrane where hot-air welding is to occur.
- I. Substrate Board: ASTM C 1177/C 1177/M, glass-mat, water-resistant gypsum substrate, Type X, 5/8 inch (16 mm) thick.
 - 1. “Dens Deck Prime Roof Guard”; G-P Gypsum.
- J. Cover Board: ASTM C 1177/C, glass-mat, water resistant tips and substrate, 1/4” thick.
 - 1. “Dens Deck Prime Guard” Roof Board, 5/8”; G-P Gypsum.
 - 2. “Strataguard” Roof Board, 5/8” Owens Corning.
- K. Preservative pressure treated lumber and plywood with water-borne preservatives to comply with AWPB C2 and C9, respectively, and with AWPB LP-2 requirements.
 - 1. Treat cants, nailers, blocking, stripping and similar items in conjunction with roofing, flashing, and water proofing.
 - 2. Treat sills, sleepers, blocking, furring, stripping and similar items in direct contact with masonry or concrete.
- L. Tapered Edge Strips: High density fiber board.
- M. Termination Bar: Stainless steel termination bar fastened 6 inches (150 mm) on center.
- N. Roof Walkway Pads: Walkway Roll; heat welded to membrane.
 - 1. Factory-formed, nonporous, heavy-duty, solid-rubber, slip-resistant, surface-textured walkway pads or rolls, approximately 3/16 inch (5 mm) thick, and acceptable to membrane roofing system manufacturer.

- O. Concrete Splash Blocks: Air-entrained, precast, 28 day, 4,000 psi concrete.
- P. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, termination reglets, cover strips, slip sheet, and other accessories.”

h. Section 2.06: REVISE entire section to read as follows:

“2.07 STONE BALLAST

- A. Remove existing stone ballast from main roof and penthouse roof, stock pile on campus per Owner’s direction. Refer to drawings for locations.
- B. Remove stone ballast from lower roof areas, store and reinstall. Refer to drawings for locations.”

B. Section 07620 – Sheet Metal Flashing and Trim

a. Section 2.03.A.1: REVISE to read “All fascia components to be used in the ANCHOR-TITE Fascia “HG” series shall be furnished by:”

b. Section 2.03.A.4: REVISE to read:

- “4. Fascia Cover: Snap on fascia covers are formed from .063 aluminum with a Kynar 500 finish to match the existing storefront, curtain wall systems and windows. Provide with pre-punched holes.
 - a. Warranty on Kynar finish: 30 year.”

C. Section 08620 – Unit Skylights

a. Paragraph 1.08.B.1: REVISE to read “Warranty Period: 5 years from date of substantial Completion.”

b. Paragraph 1.08.C.1: REVISE to read “Warranty Period for Acrylic: 5 years from date of Substantial Completion against yellowing.”

c. Paragraph 1.08.D.1: REVISE to read “Warranty Period for Anodized Finish: 5 years from Date of Substantial Completion for film integrity.”

d. Paragraph 1.08.D.2: REVISE to read “Warranty Period for Baked Enamel Finish: 5 years from date of Substantial Completion for film integrity.”

e. Paragraph 2.01.A.2: REVISE to read “Wasco Products, Inc.: Product DDC: www.wascoproducts.com (800-338-0293). Basis of Design.”

f. Paragraph 2.04.A.1: REVISE to read “Provide Model (DDC) meeting the requirements of this section.”

g. Paragraph 2.04.E: ADD paragraph 2.04.E. “Curb: Field fabricated, refer to DRM for details.”

D. Section 08630 – Metal-Framed Skylights

- a. Section 1.05 PERFORMANCE REQUIREMENTS: ADD the following paragraphs to this section:

C. Deflection Limits: As follows:

1. Deflection of the entire length of the framing members in direction normal to glazing plane is limited to 1/175 of clear span.

D. Lateral Support: Compression flanges 75% of flexural members with minimum depths equal to flexural member depth and by anchors to the building structure. Glazing material does not provide lateral support.

E. Structural Loads: Provide metal-framed skylights, including anchorage, capable of withstanding the effects of the following design loads when supporting full dead loads:

1. Roof Loads:

- a. Concentrated Load: 250 lb applied to framing members at location that produces the most severe stress or deflection.
- b. Snow Loads: As indicated.
- c. Roof Loads: As indicated.
- d. Seismic Loads: As indicated.

F. Seismic Performance: Provide metal-framed skylights, including anchorage, capable of withstanding test pressure indicated without materials and deflection failures and permanent deformation of structural members exceeding 0.2 percent of span when tested according to ASTM E 330.

1. Test Pressure: 104 psf of positive and 95 psf of negative wind-load design pressures.

G. Thermal Movement: Provide metal-framed skylights that allow for thermal movements resulting from the following maximum change (range) in ambient temperatures by preventing buckling, sealant failure, and other detrimental effects.

1. Temperature Change (Range): 100 deg F.

H. Air Infiltration: Provide metal-framed skylights with maximum air leakage of 0.06 cfm/sq.ft. (0.03 L/s per sq. m) of surface when tested according to ASTM E 283 at a minimum static-air-pressure differential of 6.24 lb/sq.ft. (300 Pa).

I. Water Penetration: Provide metal-framed skylights that do not evidence water penetration when tested according to ASTM E 331 at a minimum differential static pressure of 20 percent of positive design wind pressure, but not less than 15 lb/sq.ft. (718 Pa).

J. Condensation Resistance: Provide aluminum-framed systems that when tested with fixed glazing, have a frame condensation-resistance factor (CRF) of not less than 54 when tested according to AAMA 1503 when clear over clear insulated glass is used.

- b. Section 1.06 SUBMITTALS: ADD the following paragraphs to this section:

L. Sealant Compatibility and Adhesion Test Reports: From sealant manufacturer indicating that materials forming joint substrates and joint sealant backings have been tested for compatibility and adhesion with sealants; include sealant manufacturer's interpretation of test results for

sealant performance and recommendations for primers and substrate preparation needed for adhesion.

M. Professional Engineer Qualifications: A professional engineer who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of skylights that are similar to those indicated for this Project in material, design, and extent.

N. Testing Agency Qualifications: An independent testing agency with the experience and capability to conduct the testing indicated as documented according to ASTM E 548.

c. Paragraph 2.03.B: REVISE to read “Provide model PY Pinnacle 350 meeting the requirements of this section. Basis of design.”

d. Paragraph 2.09.A: REVISE to read:

“A. High-Performance Organic Finish: AA-C12C42R1x (Chemical Finish: cleaned with inhibited chemicals; Chemical Finish: acid-chromate-fluoride-phosphate conversion coating; Organic Coating: as specified below). Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers’ written instructions.

1. Fluoropolymer Two-Coat System: Manufacturer’s standard two-coat, thermocured system consisting of specially formulated inhibitive primer and fluoropolymer color topcoat containing not less than 70 percent polyvinylidene fluoride resin by weight; complying with AAMA 605.2.”

e. Paragraph 3.03.K: ADD this paragraph to Section 3.03.

“K. Install secondary-sealant weatherseal according to sealant manufacturer’s written instructions to provide weatherproof joints. Install joint fillers behind sealant as recommended by sealant manufacturer.”

3.3 CHANGES TO THE DETAIL REFERENCE MANUAL

A. INDEX-1: REPLACE this page in its entirety.

B. RD-13 – Roof Detail: REPLACE this page in its entirety.

C. RD-14 – Roof Detail: REPLACE this page in its entirety.

D. RD-21 – Dimensions of Pyramid Skylight: ADD this page to the Detail Reference Manual.

E. RD-22 – Dimensions of Circular Skylight: ADD this page to the Detail Reference Manual.

3.4 CLARIFICATIONS

- A. Reuse of existing wood blocking will be considered on a case by case basis. For the purposes of this bid Contractor shall assume all new wood blocking is required.

3.5 ATTACHMENTS

- A. INDEX-1 – Detail Reference Manual Index (revised 1.10.13)
- B. RD-13 – Roof Detail (revised 1.10.13)
- C. RD-14 – Roof Detail (revised 1.10.13)
- D. RD-21 – Dimensions of Pyramid Skylight
- E. RD-22 – Dimensions of Circular Skylight

END OF ADDENDUM



Please sign and return this page, via fax, to Eastern PCM, LLC at (717) 233-1666 indicating receipt of this Addendum.

**HACC Central Administration Building
Phase 2 – Building Envelope Renovations**

Addendum # _____ has been received.

Company: _____
Print Company Name

Received By: _____
Print Name Signature

Date: _____

Please check one:

- _____ We are bidding as a prime contractor
- _____ We are not bidding
- _____ We are a sub-contractor

DETAIL REFERENCE MANUAL INDEX

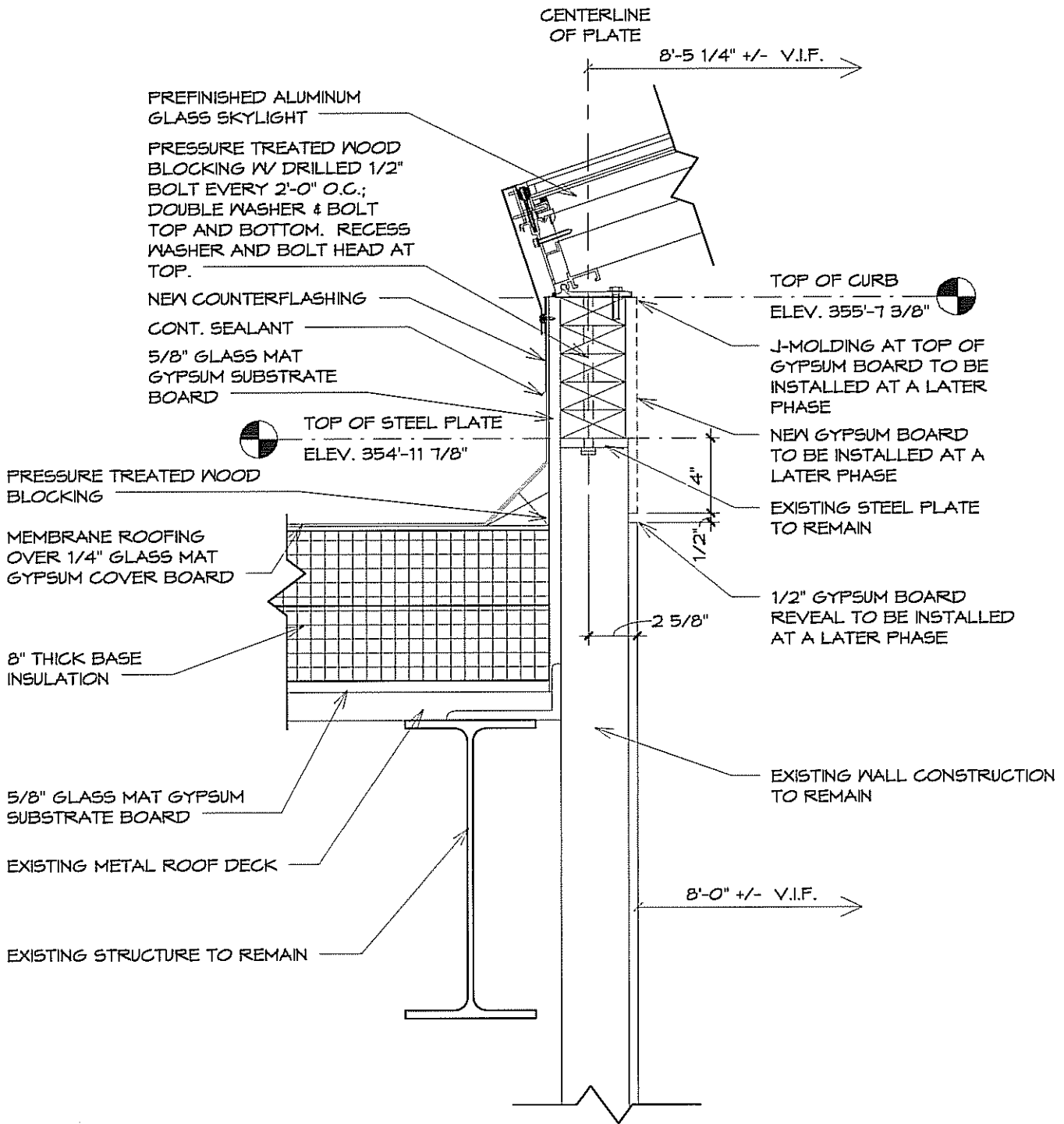
NOTES: N-0 THRU N-4

LEGENDS: L-0 THRU L-3

ALUMINUM DETAILS: AD-0 THRU AD-35

MISCELLANEOUS DETAILS: MDT-0 THRU MDT-37

ROOF DETAILS: RD-0 THRU RD-22



NOTE: SKYLIGHT SLOPE TO BE 4:12.
 APPLIES TO ALL SIDES OF SKYLIGHT.
 SEE DETAIL RD-21 FOR DIMENSIONS OF SKYLIGHT.

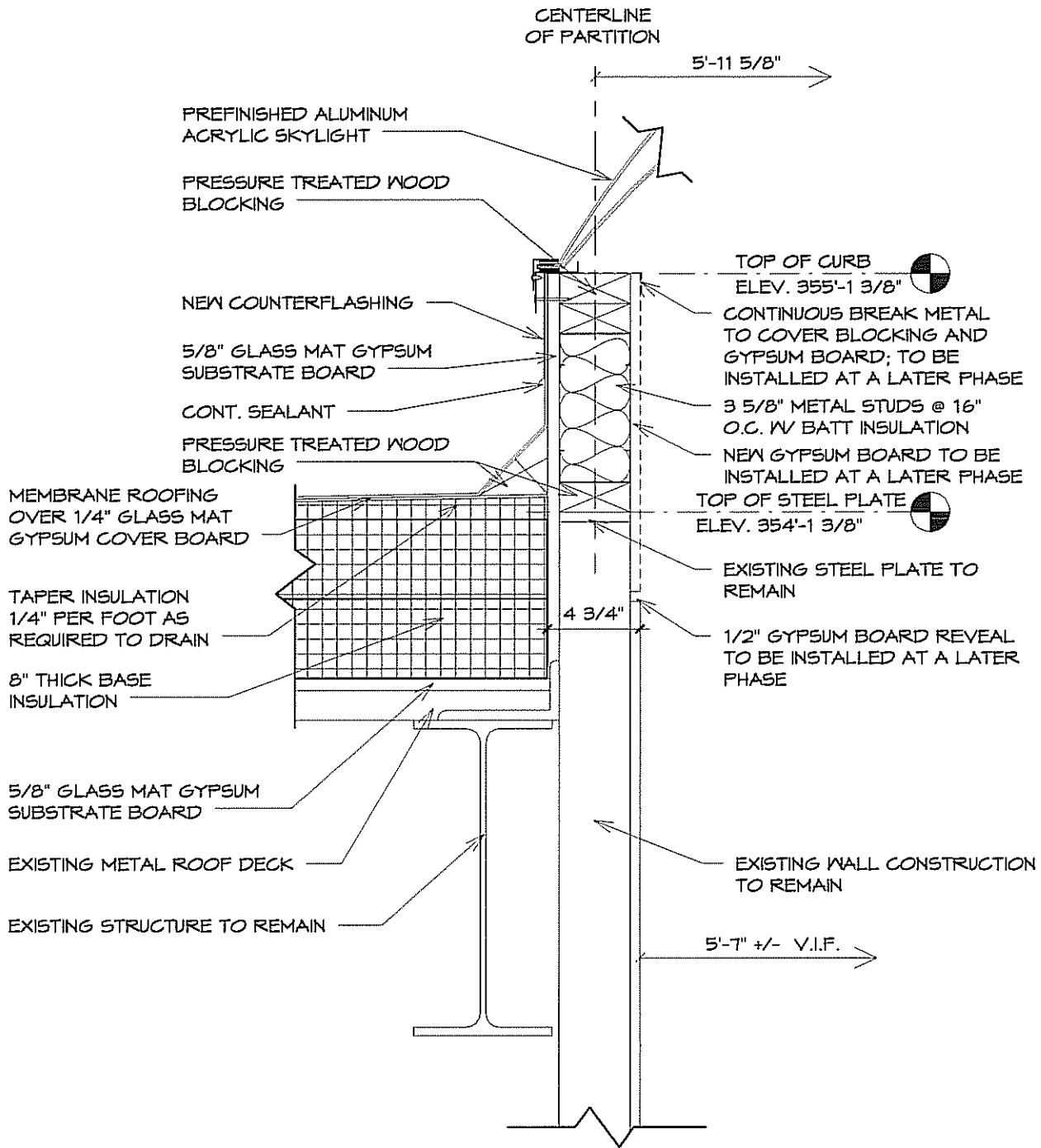
ROOF DETAIL

SCALE: 1 1/2" = 1'-0"

PHASE 2 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC CENTRAL
 ADMINISTRATION BUILDING/ DECEMBER 10, 2012
 MURRAY ASSOCIATES ARCHITECTS, P.C.

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RD-13



NOTE: SEE DETAIL RD-22 FOR DIMENSIONS OF SKYLIGHT.

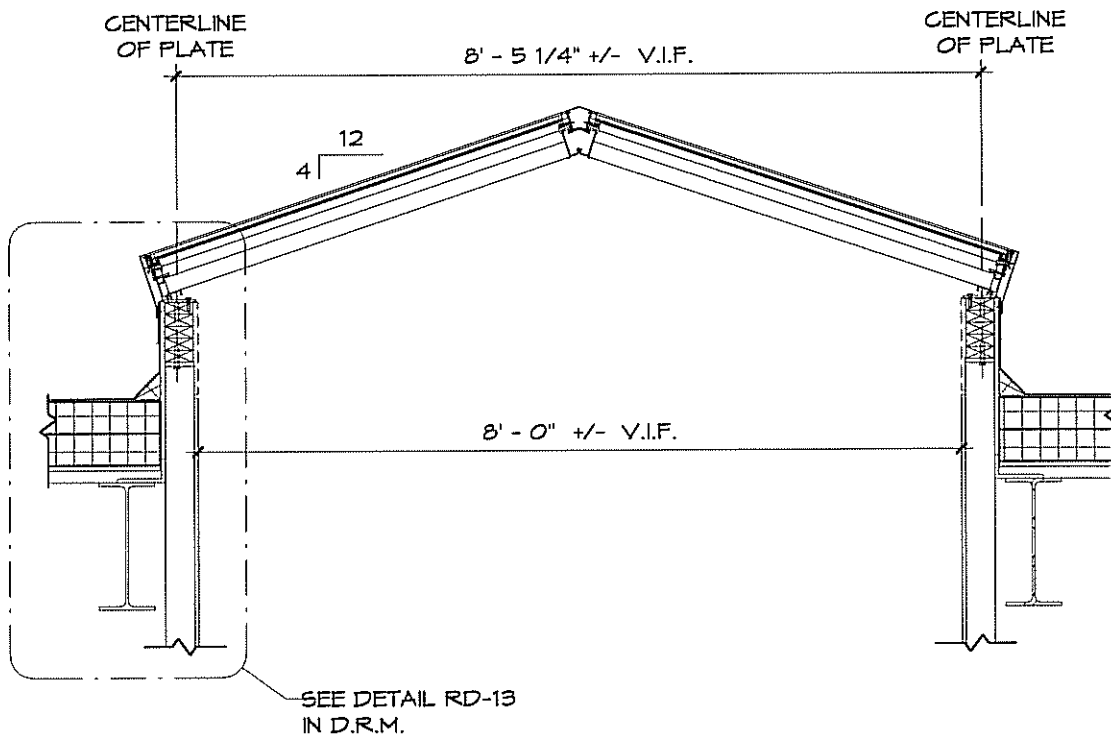
ROOF DETAIL

SCALE: 1 1/2" = 1'-0"

PHASE 2 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC CENTRAL
 ADMINISTRATION BUILDING/ DECEMBER 10, 2012
 MURRAY ASSOCIATES ARCHITECTS, P.C.

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RD-14



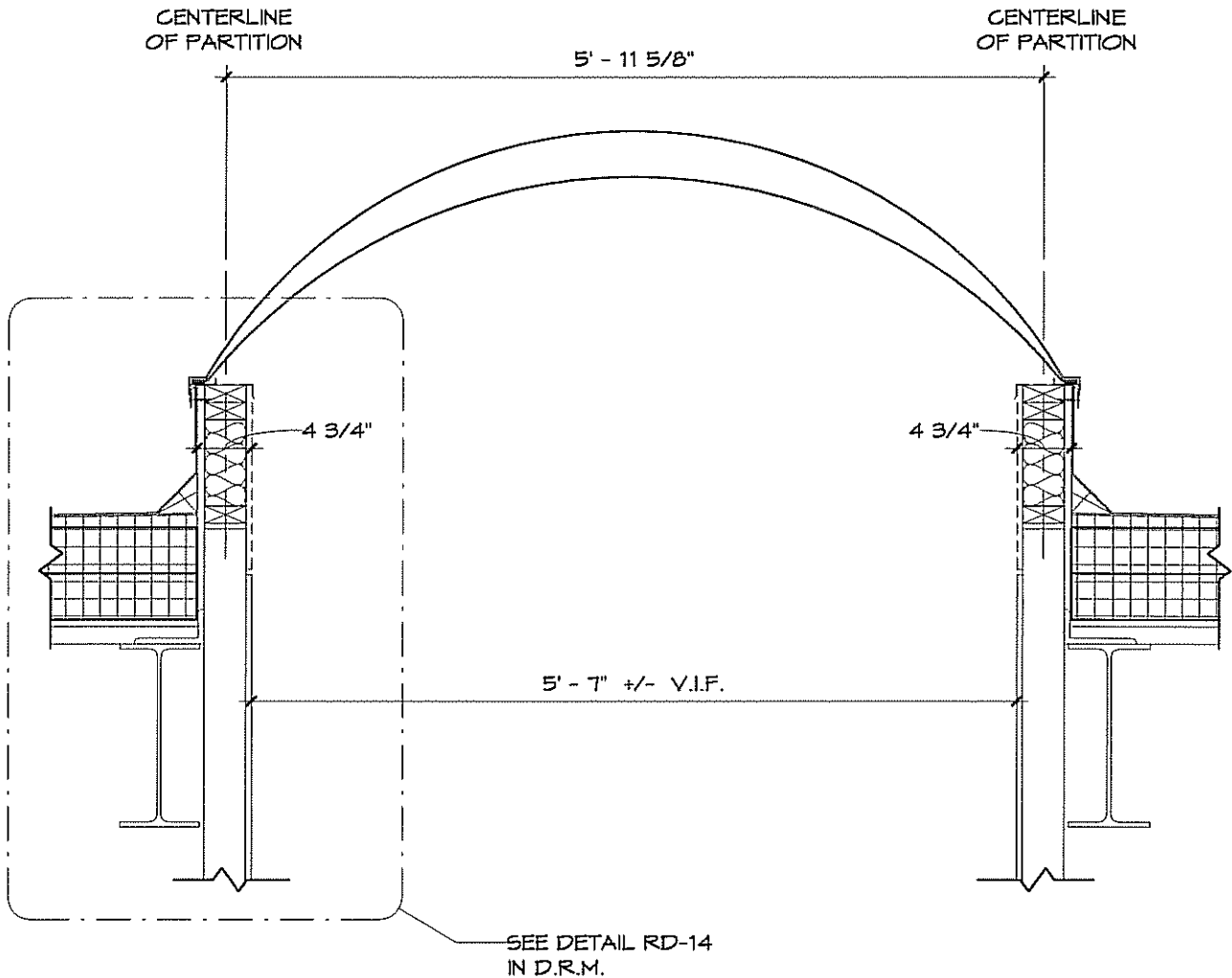
DIMENSIONS OF PYRAMID SKYLIGHT

SCALE: 1/2" = 1'-0"

PHASE 2 - CONSTRUCTION DOCUMENTS
 3395/ ALTERATIONS TO HACC CENTRAL
 ADMINISTRATION BUILDING/ DECEMBER 10, 2012
 MURRAY ASSOCIATES ARCHITECTS, P.C.

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RD-21



DIMENSIONS OF CIRCULAR SKYLIGHT

SCALE: $\frac{3}{4}" = 1'-0"$

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 ADMINISTRATION BUILDING/ DECEMBER 10, 2012
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RD-22