City of Cambridge

Purchasing Department

Cynthia H. Griffin
Purchasing Agent

TO: **All Bidders**

FROM: **City of Cambridge**

DATE: **June 24, 2013**

RE: **File No. 6132 – Solomons Transportation Center Roof Replacement - Addendum No. 1**

Please note the attached Addendum No. 1 which includes general clarifications, update to technical specifications and 3 drawings

The following questions was submitted and answered.

Q: Would you please clarify the MBE/WBE requirements for this bid?

A: 10% MBE is a requirement and 4% WBE is a goal.

All other details remain the same.

CYNTHIA H. GRIFFIN
PURCHASING AGENT

Addendum No. 1

RUSSO BARR ASSOCIATES

Russo Barr Associates, Inc.
33 Center Street, 2nd Floor
Burlington, MA 01803

781-273-1537 tel
781-273-1695 fax

ADDENDUM NO. 1

TO: Prospective Bidders

PROJECT: Roof Replacement Project
Solomons Transportation Center
Cambridge, Massachusetts
RBA Project No.: 2013020.00

FROM: Russo Barr Associates, Inc.
33 Center Street, 2nd Floor
Burlington, MA 01803
(781) 273-1537

DATE: June 20, 2013

This addendum modifies the Project Manual dated June 5, 2013 as noted below. Acknowledge receipt of this addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This addendum consists of two (2) pages, one (1) technical specification attached and three (3) drawings attached.

General Clarifications:

1. Work hours shall be Monday through Friday, 7 am to 5 pm and Saturdays, 9 am to 6 pm. Any work performed on a Sunday will require prior written approval of the Cambridge Police Department (617-349-3300).
2. There are no allocated parking areas. Limited parking (2 spaces) inside the building may be available and will be subject to roof deck repairs and other work occurring above the garage space. The Owner makes no guarantee that interior parking space will be available. The roofing and HVAC general contractors shall coordinate.
3. Completion of the roofing work is scheduled for 9/6/13. All interior work must be completed by 8/30/13.
4. Existing window and wall mounted air conditioners and glass block areas (at above roofline wall) shall be removed under a separate HVAC contract. The Roofing Contractor shall apply temporary protection to these openings and shall enclose the openings with brick masonry for the full depth of the masonry wall excluding areas of new ductwork penetrating the former glass block areas. Roofing contractor shall install plywood, roofing and flashing at this entire above roofline wall.

Specifications:

Section 07530, paragraph 2.02.A; add at the end:

Elastomeric sheet roofing and flashing membrane shall be laminated white over black EPDM and shall be accompanied by specialized adhesives, seam tapes, caulks, corners, pipe boots and peel and stick flashings as required for a full, white EPDM roofing membrane system.

Section 07530, paragraph 3.08.A; add at the end:

Walkway pads shall also be installed outside of the roof access door and inboard of the emergency egress ladder located on the east side of Roof Area C.

Section 07535, paragraph 3.08.A; add at the end:

Walkway pads shall also be installed outside of the roof access door and inboard of the emergency egress ladder located on the east side of Roof Area C.

Section 15400, paragraph 2.01; add:

I. Overflow drain piping termination outboard of the exterior brick masonry wall shall be cast bronze downspout nozzle, loose wall flange and inlet threaded connection such as series 25010 by Josam, 1775 by JR Smith or 3940 by Wade.

Section 08100 - attached

Drawings:

Drawings R-1, R-4 and R-7 attached.

SECTION 08100

METAL DOORS AND FRAMES

PART 1 – GENERAL

1.01 GENERAL REQUIREMENTS

A. The General Conditions of the Contract for Construction and the General Requirements are hereby made part of this specification.

1.02 SECTION INCLUDES

A. The Contractor shall supply all materials, equipment and labor required for completion of the work under this section.

B. Door and Door Frame replacement work shall include, but is not limited to, the following:

1. Installation of a new metal door and frame, as indicated on the Drawings and specified herein required to complete the work.

C. All work shall be performed in a first class, workmanlike manner. The Contractor shall schedule and coordinate the work to minimize any inconvenience to the building occupants and any disruption of the normal use of the building.

D. All materials shall be verified by Contractor to be proper for each intended use, and the entire work of this Section shall be done in such a manner that each installation will perform its intended purpose as applicable, in the finished work.

D. The drawings indicate and show limits of construction for this project. The specifications specify material and work requirements for this project. Both are complementary to each other and both shall be followed to complete the work.

E. The door installer shall provide all scaffolding, dumpsters, and access to the building(s) and site.

1.03 RELATED WORK UNDER OTHER SECTIONS

A. Section 07530 - EPDM Roofing & Flashing
B. Section 07535 - PVC Roofing & Flashing

1.04 SUBMITTALS

A. Submit the following under the provisions of Section 01300.

1. Manufacturer's descriptive literature and data sheets on each product including all accessories and materials proposed.

2. Two-6" long sections of doorframe and threshold extrusion.

3. Material Safety Data Sheets for all materials submitted.

4. Shop Drawings: Complete shop drawings showing door elevations, plan drawings, full size sections, hardware required door construction, reinforcing and anchoring details shall be submitted and approved prior to fabrication.

1.05 PRODUCT DELIVERY, HANDLING AND STORAGE

A. All products shall be new and of the best quality. All materials shall be delivered to the site in the Manufacturer's unopened containers with Manufacturer's labels intact.

B. Products and materials shall be delivered to the site in sufficient quantities to allow continuity of the work.

C. All products and materials shall be handled and stored in strict accordance with the Manufacturer's requirements. All products materials shall be stored in dry locations, protected from the weather and elevated off the ground. Finishes shall be fully protected from scratching, denting, scuffs and all other types of damage.

D. All flammable materials shall be stored in a cool, dry area away from sparks and open flames. Follow precautions outlined on containers or supplied by material Manufacturer/supplier.

E. The Contractor shall provide all storage facilities. The buildings shall not be used as storage areas.

F. The location of all storage facilities and staging shall be approved and coordinated with the Owner.

1.06 CONTRACTOR'S GUARANTEE

The Contractor shall provide the Owner a guarantee, in a form acceptable to the Owner, guaranteeing the work to be free from material or workmanship defects in accordance with the following conditions:

A. The guarantee shall require the Contractor to repair or replace any materials or workmanship found to be deficient at no additional cost to the Owner.

B. The guarantee shall be for a minimum period of two (2) years from the date of acceptance by the Owner.

PART 2 - PRODUCTS

2.01 MANUFACTURER

A. Acceptable manufacturers: Allied, American Standard/Steelcraft, American Steel, Amweld, Bilt-Rite, Ceco, Fenestra, Republic, Superior, or approved equal.

2.02 DOORS

A. Doors: Full flush (No Vertical Face Seams), complying with ANSI A250.8; face panels laminated to core and complete unit closed with steel perimeter channels projection welded to face sheets. Size if door shall be based on existing width and lintel height with accommodation for new 8" minimum flashing height.

1. Thickness: 1-3/4 inches.

a. ANSI Level 3, Model 2; 16 gage (1.3 mm) faces, no visible edge seams.

2. Faces: Full flush.

3. Face Material: Galvannealed steel sheet.

4. Insulated Doors: Insulated; U-value of 0.13, polystyrene core.

5. Core: Doors fabricated by laminating panels to a specified core and the complete unit closed with steel perimeter channels, projection welded to the face sheets. Core shall be as follows:

a. Expanded polystyrene core.

6. Steel Stiffened Doors: Steel reinforced with minimum 22 gage (0.75 mm) hat shaped stiffeners welded to the inside of each face sheet at maximum of 6 inches (150 mm) on center, with mineral wool filling spaces between stiffeners.

7. Finish: Factory prime finish.

2.03 FRAMES:

A. Frames: Formed steel sheet, with 2 inch (50 mm) wide face jambs and heads unless otherwise indicated; complying with ANSI A250.8.

1. Frame Depth: Fixed, as indicated on drawings.

2. ANSI Level 3 Doors: 14 gage (1.9 mm) frames.

3. Material: Galvannealed steel sheet.

4. Corners: Mitered; face welded and ground smooth.

5. Provide 3 silencers for single doors, 2 silencers on head of frame for pairs of doors.

6. Finish: Factory prime finish.

B. Frame Anchors: Minimum of six wall anchors and two base anchors.

2.04 DOOR HARDWARE

A. Handle and lockset on one door. Lockset to be Sargent IC core keyed to match Owner's keying system.

B. Hinges: Stanley (heavy duty), or approved equal.

C. Closers: Dorma 7801 - Grade I, (Brushed aluminum finish) or approved equal.

D. Stops: Top mount, heavy gauge galvanized, steel chain with spring shock absorber (through bolt through door).

E. Threshols shall be exterior outswinging doors - Reese (customized) or approved equal.

F. Weatherstripping shall be; Head & Jamb: National Guard Products, Inc. #160A or approved equal. Bottom Seal: Reese DB 594P or approved equal.

G. Lock guard shall be 0.125" stainless steel applied with stainless steel stove bolts

2.05 FACTORY FINISH

A. All doors, frames, and stick components shall be cleaned and finished in accordance with ANSI A250.10, "Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames".

B. Preparation: Clean and phosphatize surfaces of steel doors and frames".

C. Primer: Apply one coat of a gray, alkyd acrylic enamel primer, forced cured.

D. Finish: Paint with alkyd acrylic enamel using a two-coat process, with each coat being force cured after each coating.

2.06 SEALANT

A. For perimeter of door frame closure angles to masonry to be one part, low modulus, moisture curing, polyurethane sealant with a ultimate elongation of 550% as per ASTM test D-412 and tensile strength of 180 psi as per ASTM test D-412. Color to be selected by owner and engineer.

B. Backer rod to be closed cell type oversized 33% larger that the new joint size.

PART 3 – EXECUTION

3.01 DEMOLITION

A. The contractor is responsible for removing and legally disposing of existing door and associated components as required to install replacement door and associated materials. Refer to drawings for exact locations. Contractor shall only

remove what doors can be replaced within the same work day/period. No temporary enclosures will be allowed in the door opening.

B. Care shall be taken when removing the existing door systems so that no damage occurs to the door opening substrates including but limited to the floor slabs, walls and adjacent building components. Existing fasteners shall be cut flush or removed and filled with approved material.

C. Contractor shall be responsible for removing and legally disposing of all construction related and associated debris from site every day. No debris shall be stored on site without the permission of the owner.

D. Contractor shall protect all surfaces adjacent to demolition work in a manner acceptable to the owner.

3.02 PREPARATION

A. Do not remove existing doors until replacement doors are available and ready for installation. Replacement doors and existing door openings shall be field measured and verified with shop drawings and replacement doors on site prior to removal of existing doors.

B. Existing doors shall be carefully removed as not to damage the substrates adjacent to and at the door rough opening.

C. Clean dirt, debris, oil, grease, imperfections and other foreign substances that would affect the proper installation of the doors, bond of sealants, from all surfaces to receive new building components and materials.

D. New fastener layout shall be offset from existing fasteners (minimum 1-1/2" clearance from existing fastener locations). Fastener size, spacing and layout for door system framing shall meet or exceed Massachusetts State Building Code (Sixth Edition).

3.03 INSTALLATION

A. Comply with all manufacturer's specifications and recommendations for installation of replacement door units, hardware and other components of work.

B. Set units plumb, level and true to line, without warp or rack of frame. Anchor securely in place. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action.

C. Set sill members and other sub-frame members in a continuous bed of sealant to provide weather tight construction. Seal units following installation and as required to provide weather tight system.

D. Install door perimeter sealant joints as specified.

3.04 ADJUSTMENT AND CLEANING

A. All doors shall be adjusted for specified clearance spacing, operation including closing, opening, latching, hook-type door holders and general operational adjustment. Doors and hardware shall operate smoothly and latch properly. All doors and hardware components shall be adjusted as per manufacturers' recommendations to allow for proper operation. Installation and work on other doors in the project shall not proceed until installed units are operating properly.

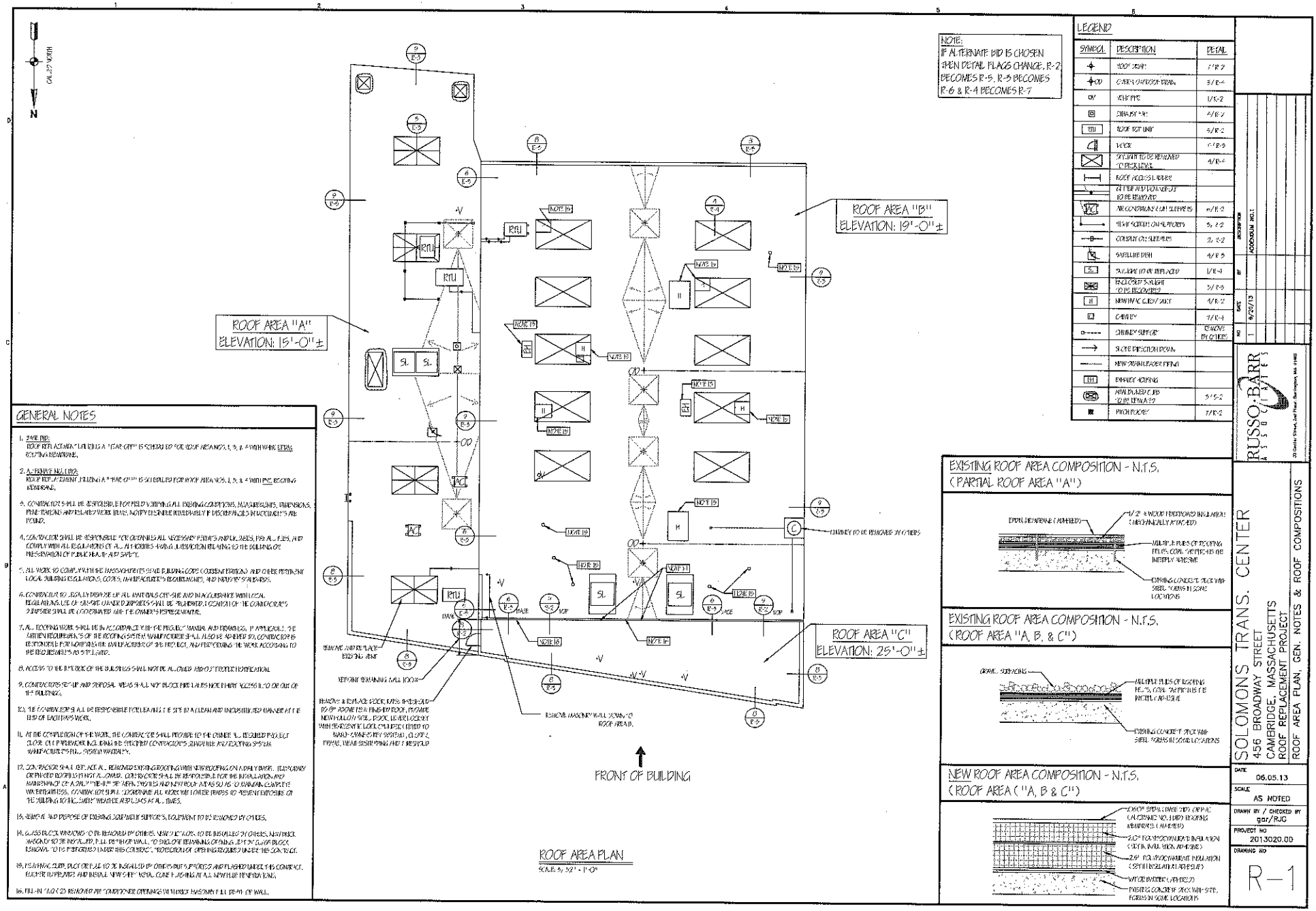
B. Clean all door and frame surfaces promptly after installation of doors, exercising care not to damage the protective coatings and finishes. Follow all manufacturers recommendations and instructions for cleaning door system framing. Remove all foreign substances, glazing and sealant compound, dirt and other substances.

3.05 PROTECTION OF WORK

A. All holes due to nails, pins, temporary shimming, bracing or the like shall be carefully filled with matching materials and, if appropriate, painted to match adjacent existing surfaces.

B. Contractor is to provide any necessary protection to the installed work prior to acceptance by the Owner and Engineer. Any damage incurred during this period shall be corrected by the Contractor at no additional cost to the Owner.

END OF SECTION



ROOF AREA PLAN
SCALE: 1/32" = 1'-0"

NOTE:
IF ALTERNATE BID IS CHOSEN THEN DETAIL FLAGS CHANGE, R-2 BECOMES R-5, R-5 BECOMES R-6 & R-4 BECOMES R-7

LEGEND

SYMBOL	DESCRIPTION	DETAIL
	ROOF DRAIN	1/R-2
OD	OVERFLOW ROOF DRAIN	5/R-4
OV	VENT PIPE	1/R-2
	EXHAUST FAN	4/R-2
RTU	ROOF TOP UNIT	3/R-2
	VENT	1/R-3
	SKYLIGHT TO BE REMOVED "OTHERS"	4/R-4
	ROOF ACCESS LADDER	
	GUTTER AND DOWNSPOUT TO BE REMOVED	
AC	AIR CONDITIONING UNIT SUPPORTS	4/R-2
	SLOPE SCREED ON SUPPORTS	5, 2-2
	CONDUIT ON SUPPORTS	2, 2-2
	SATELLITE DISH	4/R-3
SL	SKYLIGHT TO BE REPLACED	1/R-4
	ENCLOSED SKYLIGHT TO BE DISCONNECTED	2/R-3
H	NEW HVAC EXHAUST DUCT	4/R-2
C	CHIMNEY	7/R-4
	CHIMNEY SUPPORT	BY OTHERS BY OTHERS
	SLOPE DIRECTION DOWN	
	NEW DRAIN LEADER PIPING	
EF	EXHAUST ROOFING	
	NEW PLANTER CURB TO BE REMOVED	3/R-2
	PITCH POCKET	7/R-2

GENERAL NOTES

1. SAME BID:
ROOF REPLACEMENT INCLUDING A "TEAR OFF" IS SCHEDULED FOR ROOF AREAS NOS. 1, 3, & 4 WITH WHITE EPDM ROOFING MEMBRANE.

2. ALTERNATE NO. 1 BID:
ROOF REPLACEMENT INCLUDING A "TEAR OFF" IS SCHEDULED FOR ROOF AREA NOS. 1, 3, & 4 WITH PVC ROOFING MEMBRANE.

3. CONTRACTOR'S WILL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS, MEASUREMENTS, DIMENSIONS, PENETRATIONS AND RELATED WORK ITEMS. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES IN ACCURACY ARE FOUND.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FEES, PAY ALL FEES, AND COMPLY WITH ALL REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION RELATING TO THE BUILDING OR PRESERVATION OF PUBLIC HEALTH AND SAFETY.

5. ALL WORK TO COMPLY WITH THE MASSACHUSETTS STATE BUILDING CODE (CURRENT EDITION) AND OTHER PERTINENT LOCAL BUILDING REGULATIONS, CODES, MANUFACTURER'S REQUIREMENTS, AND INDUSTRY STANDARDS.

6. CONTRACTOR TO LEGALLY DISPOSE OF ALL MATERIALS OFF-SITE AND IN ACCORDANCE WITH LOCAL REGULATIONS. USE OF ON-SITE OWNER DUMPSTERS SHALL BE PROHIBITED. LOCATION OF THE CONTRACTOR'S DUMPSTER SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE.

7. ALL ROOFING WORK SHALL BE IN ACCORDANCE WITH THE PROJECT MANUAL AND DRAWINGS. IF APPLICABLE, THE ARCHITECT/ENGINEER'S OF THE ROOFING SYSTEM MANUFACTURER SHALL ALSO BE ADHERED TO. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT/ENGINEER OF THE PROJECT, AND PERFORMING THE WORK ACCORDING TO THE REQUIREMENTS AS STIPULATED.

8. ACCESS TO THE INTERIOR OF THE BUILDING SHALL NOT BE ALLOWED AND IS STRICTLY PROHIBITED.

9. CONTRACTORS SET-UP AND DISPOSAL AREAS SHALL NOT BLOCK FIRE LANES NOR PRIMARY ACCESS INTO OR OUT OF THE BUILDING.

10. THE CONTRACTOR IS TO BE RESPONSIBLE FOR LEAVING THE SITE IN A CLEAN AND UNDISTURBED MANNER AT THE END OF EACH DAY'S WORK.

11. AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL PROVIDE TO THE OWNER'S REPRESENTATIVE PROJECT CLOSE OUT PAPERWORK INCLUDING BUT NOT LIMITED TO CONTRACTOR'S GUARANTEE AND EXISTING SYSTEM WARRANTIES FULL SYSTEM WARRANTY.

12. CONTRACTOR SHALL REPLACE ALL REMOVED EXISTING ROOFING WITH NEW ROOFING ON A DAILY BASIS. TEMPORARY OR PATCHED ROOFING IS NOT ALLOWED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF A DAILY "WATER-TIGHT" SYSTEM. PROTECT AND REPAIR ROOF AREAS SUBJECT TO MAINTAIN COMPLETE WATERTIGHTNESS. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO PREVENT EXPOSURE OF THE BUILDING TO THE ELEMENTS. WEATHER AFFECTS ALL TRADES AT ALL TIMES.

13. REMOVE AND DISPOSE OF EXISTING EQUIPMENT SUPPORTS, EQUIPMENT TO BE REMOVED BY OTHERS.

14. GLASS BLOCK WINDOWS TO BE REMOVED BY OTHERS. NEW OPENINGS TO BE INSTALLED BY OTHERS. INFILL BRICK MASONRY TO BE INSTALLED, FULL DEPTH OF WALL, TO ENCLOSE REMAINING OPENING LEFT BY GLASS BLOCK REMOVAL. TO BE PERFORMED UNDER THIS CONTRACT. "PROTECTION OF OPENINGS" REQUIRED UNDER THIS CONTRACT.

15. HVAC CURB, DUCTWORK TO BE INSTALLED BY OTHERS DUE FLASHINGS AND FLASHED UNDER THIS CONTRACT. ELEVATE TO PREPARE AND INSTALL NEW SURFACE METAL CURB FLASHING AT ALL NEW HVAC PENETRATIONS.

16. FILL-IN "AC" (2) REMOVED AIR CONDITIONER OPENINGS WITH BRICK MASONRY FULL DEPTH OF WALL.

EXISTING ROOF AREA COMPOSITION - N.T.S.
(PARTIAL ROOF AREA "A")

EXISTING ROOF AREA COMPOSITION - N.T.S.
(ROOF AREA "A, B, & C")

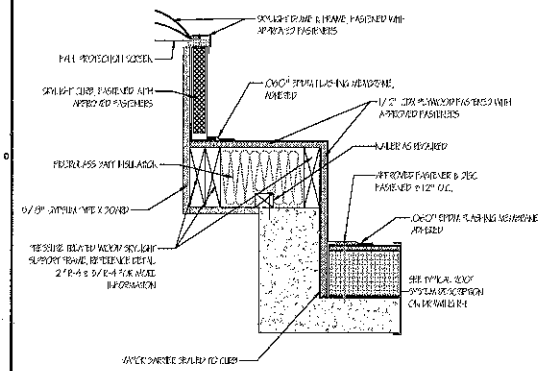
NEW ROOF AREA COMPOSITION - N.T.S.
(ROOF AREA ("A, B & C")

RUSSO-BARR ASSOCIATES
20 Center Street, 2nd Floor, Burlington, MA 01803

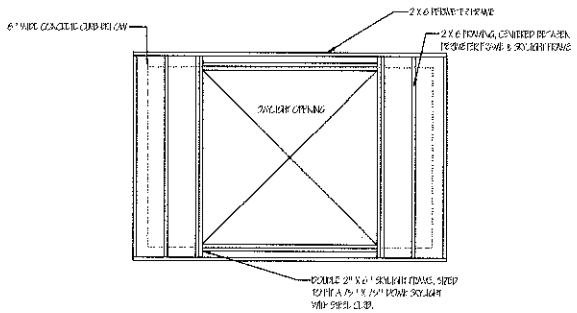
NO	DATE	BY	DESCRIPTION
1	6/20/13		ADDENDUM NO.1

SOLOMONS TRANS. CENTER
456 BROADWAY STREET
CAMBRIDGE, MASSACHUSETTS
ROOF REPLACEMENT PROJECT
ROOF AREA PLAN, GEN. NOTES & ROOF COMPOSITIONS

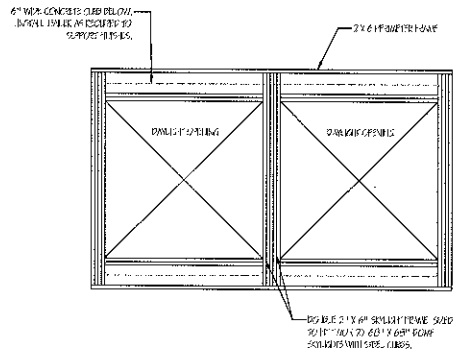
DATE 06.05.13
SCALE AS NOTED
DRAWN BY / CHECKED BY gar/RJG
PROJECT NO 2013020.00
DRAWING NO R-1



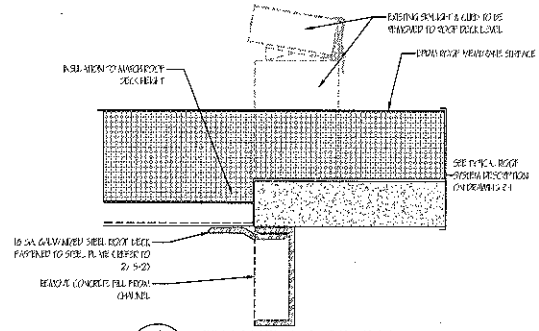
1 / R-4 SKYLIGHT CURB FLASHING DETAIL
N.T.S.



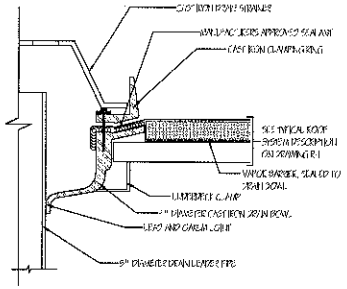
2 / R-4 SINGLE SKYLIGHT SUPPORT FRAME PLAN DETAIL
N.T.S.



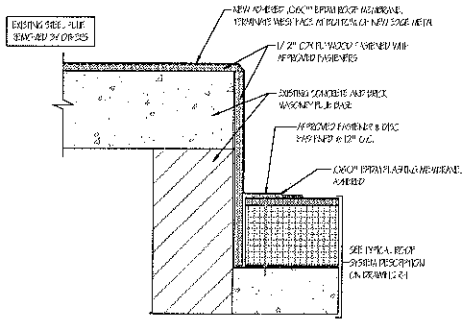
3 / R-4 DOUBLE SKYLIGHT SUPPORT FRAME PLAN DETAIL
N.T.S.



4 / R-4 SKYLIGHT ENCLOSURE DETAIL
N.T.S.



5 / R-4 OVERFLOW ROOF DRAIN DETAIL
N.T.S.



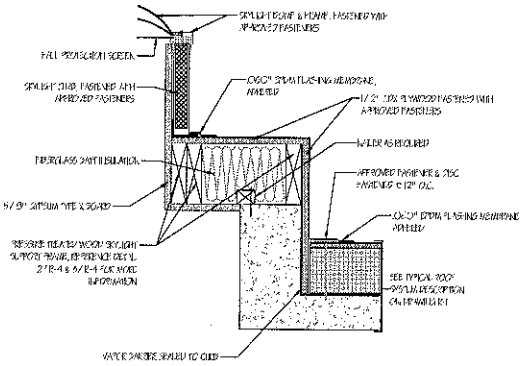
7 / R-4 REMOVED FLUE FLASHING DETAIL
N.T.S.

NO	DATE	BY	DESCRIPTION
1	6/20/13		ADDENDUM NO. 1

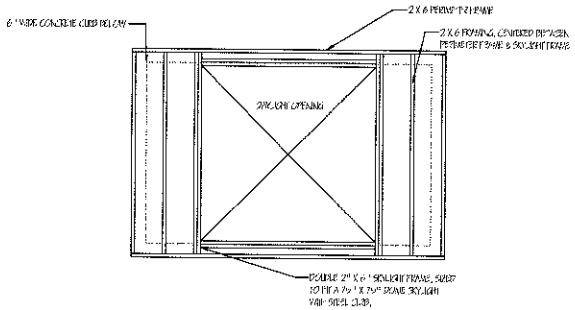
RUSSO BARR ASSOCIATES
33 Cedar Street, 2nd Floor, Burlington, MA 01803

SOLOMONS TRANS. CENTER
456 BROADWAY STREET
CAMBRIDGE, MASSACHUSETTS
ROOF REPLACEMENT PROJECT
EPDM ROOFING DETAILS (BASE BID)

DATE 06.05.13
SCALE AS NOTED
DRAWN BY / CHECKED BY gar/MJF
PROJECT NO 2013020.00
DRAWING NO R-4



1 / R-4 SKYLIGHT CURB FLASHING DETAIL
N.T.S.



2 / R-4 SINGLE SKYLIGHT SUPPORT FRAME PLAN DETAIL
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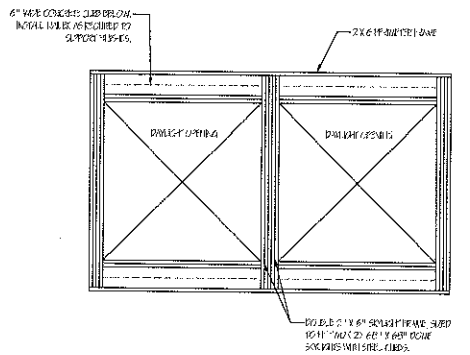
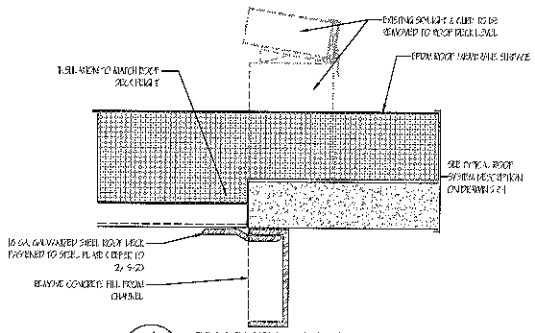
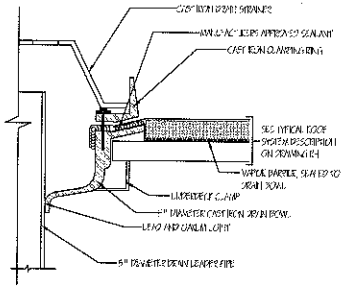


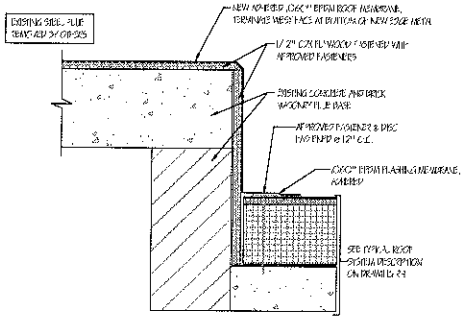
3 / R-4 DOUBLE SKYLIGHT SUPPORT FRAME PLAN DETAIL
N.T.S.



4 / R-4 SKYLIGHT ENCLOSURE DETAIL
N.T.S.



5 / R-4 OVERFLOW ROOF DRAIN DETAIL
N.T.S.



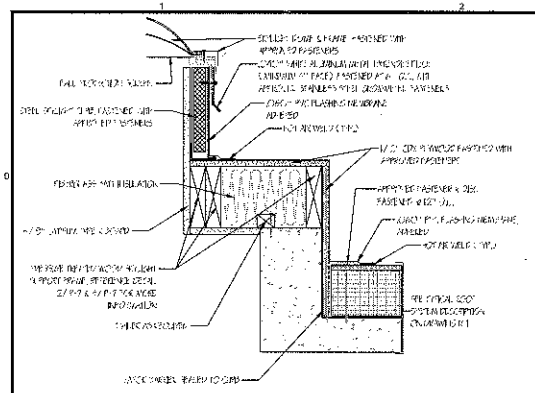
7 / R-4 REMOVED FLUE FLASHING DETAIL
N.T.S.

NO	DATE	BY	DESCRIPTION
1	6/20/13		ADDENDUM NO. 1

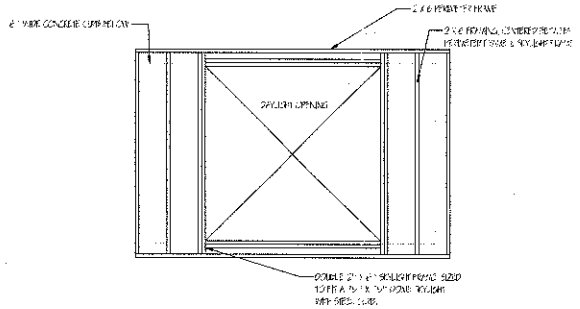
RUSSO BARR ASSOCIATES
33 Cedar Street, 2nd Floor, Burlington, MA 01803

SOLOMONS TRANS. CENTER
456 BROADWAY STREET
CAMBRIDGE, MASSACHUSETTS
ROOF REPLACEMENT PROJECT
EPDM ROOFING DETAILS (BASE BID)

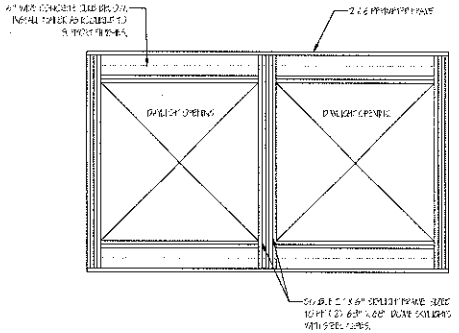
DATE 06.05.13
SCALE AS NOTED
DRAWN BY / CHECKED BY gar/MJF
PROJECT NO 2013020.00
DRAWING NO R-4



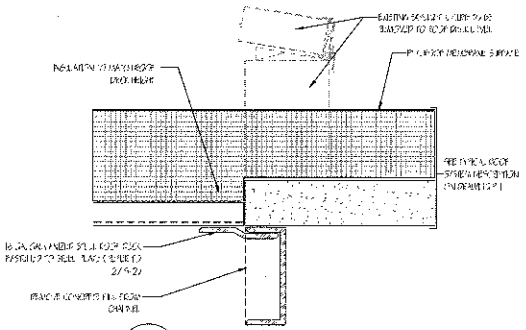
1 R-7 SKYLIGHT CURB FLASHING DETAIL N.T.S.



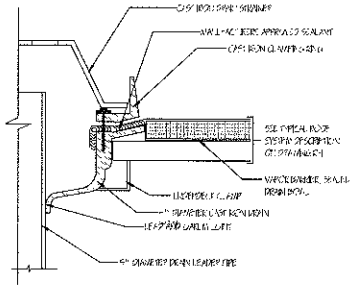
2 R-7 SINGLE SKYLIGHT SUPPORT FRAME PLAN DETAIL N.T.S.



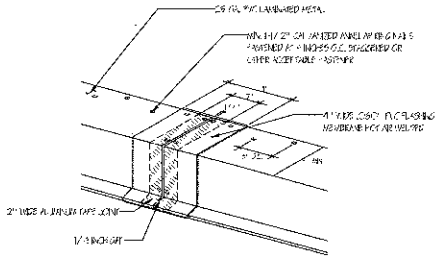
3 R-7 DOUBLE SKYLIGHT SUPPORT FRAME PLAN DETAIL N.T.S.



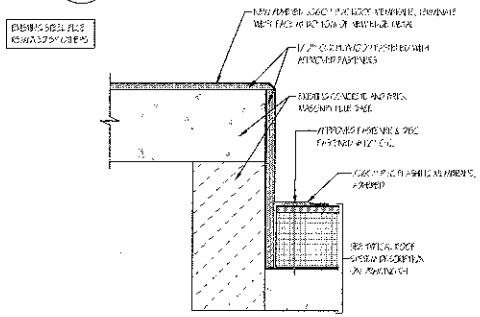
4 R-7 SKYLIGHT ENCLOSURE DETAIL N.T.S.



5 R-7 OVERFLOW ROOF DRAIN DETAIL N.T.S.



6 R-7 PVC JOINT STRIPPING DETAIL N.T.S.



7 R-7 REMOVED FLUE FLASHING DETAIL N.T.S.

NO	DATE	BY	DESCRIPTION
1	6/20/13		ADDENDUM NO. 1

RUSSO BARR ARCHITECTS
33 Cherry Street, 2nd Floor, Burlington, MA 01803

SOLOMONS TRANS. CENTER
456 BROADWAY STREET
CAMBRIDGE, MASSACHUSETTS
ROOF REPLACEMENT PROJECT
PVC ROOFING DETAILS (ALTERNATE NO. 1 BID)

DATE 06.05.13
SCALE AS NOTED
DRAWN BY / CHECKED BY gcr/MJF
PROJECT NO 2013020.00
DRAWING NO R-7