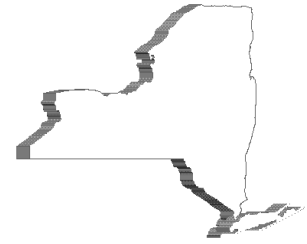




STATE OF NEW YORK  
OFFICE OF GENERAL SERVICES  
DESIGN AND CONSTRUCTION GROUP  
THE GOVERNOR NELSON A. ROCKEFELLER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242



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**ADDENDUM NO. 4 TO PROJECT NO. 44598**

**CONSTRUCTION WORK  
PROVIDE DRY FOOD STORAGE BUILDING,  
WALK-IN COOLER AND FREEZER  
RED HOOK RESIDENTIAL CENTER  
531 TURKEY HILL ROAD  
RED HOOK, NEW YORK 12571**

January 24, 2014

**NOTE:** This Addendum forms a part of the Contract Documents. Insert it in the Project Manual.  
Acknowledge receipt of this Addendum in the space provided on the Bid Form.

**SPECIFICATIONS**

1. DOCUMENT 073113 ASPHALT SHINGLE ROOF SYSTEM:
  - a. Discard this section in its entirety.
2. DOCUMENT 073113 ASPHALT SHINGLE ROOF SYSTEM Revised January 24, 2014:
  - a. Add the accompanying section (pages 073113-1 thru 073113-5) to the Project Manual.

**DRAWINGS**

3. Drawing No. A-100:
  - a. BUILDING SECTION 2:
    - 1) Change "15# FELT" to "30# FELT".
4. Drawing No. A-101:
  - a. WALL SECTION @ DOOR JAMB:
    - 1) Change "OSC BOARD" on interior face to "OSB BOARD".
    - 2) Change "OSC BOARD" on exterior face to "EXTERIOR PLYWOOD SHEATHING AND AIR BARRIER"
  - b. TYP. ROOFING DETAIL @ EAVE:
    - 1) Change "NO. 15 FELT" to "30 # FELT".

**END OF ADDENDUM**

James Dirolf, P.E.  
Director of Design

**SECTION 073113**

**ASPHALT SHINGLE ROOF SYSTEM**

**PART 1 GENERAL**

**1.01 RELATED WORK SPECIFIED ELSEWHERE**

- A. Wood Nailers and Blocking: Section 061000.

**1.02 REFERENCES**

- A. ASTM - American Society For Testing and Materials.
- B. TIMA - Thermal Insulation Manufacturer's Association.
- C. UL - Underwriter's Laboratories Inc.

**1.03 SYSTEM DESCRIPTION**

- A. Asphalt Shingle Roof System: Architectural/Asphalt fiberglass or organic shingles, felt underlayment, concealed flashing, and perimeter edge metal installed over the structural deck.

**1.04 SUBMITTALS**

- A. Submittals Package: Submit the product data, samples, and quality control submittals specified at the same time as a package.
- B. Product Data: Catalog sheets, specifications, and installation instructions for each material specified.
- C. Samples:
  - 1. Roof Shingles: One shingle selected from each of the manufacturer's standard colors.
  - 2. Cap Shingle: One shingle to match specified roof shingle color.
  - 3. Nails: Two each type.
  - 4. Felt Underlayment: Two 6 inch sq pieces.
  - 5. Perimeter Edge Metal: Full Section 6 inches long.
  - 6. Concealed Flashing: Two 6 inch sq pieces.
  - 7. Insulation Baffles: Full Section 6 inches long.
- D. Quality Control Submittals; Manufacturer's Warranty: Sample copy of the shingle manufacturer's warranty.
- E. Contract Closeout Submittals: Warranty and proof of purchase (dated itemized sales receipts or invoices) for warrantied materials.

**1.05 QUALITY ASSURANCE**

- A. Fire Resistance Rating: The asphalt shingle roof system shall have an Underwriters Laboratories External Fire Resistance Rating as follows:
  - 1. Asphalt Fiberglass Shingles: UL Class A.
- B. Wind Resistance Rating: The asphalt shingle roof system shall have an Underwriters Laboratories "Wind Resistant" label.
- C. Shingle packages shall bear the UL fire resistance and wind resistant labels.
- D. The submitted concealed flashing sample may be tested and shall exceed the following:
  - 1. Puncture the membrane with a #10 gage roofing nail and withdraw.
  - 2. Upon withdrawal of nail, 50 percent of the nail shank shall be coated with asphalt.
- E. Pre-Roofing Conference: Before the roofing Work is scheduled to commence, a conference will be called by the Director's Representative at the Site for the purpose of reviewing the Drawings and the Specifications and discussing requirements for the Work. The conference shall be attended by the Contractor, and the roofing applicator.

**1.06 DELIVERY, STORAGE AND HANDLING**

- A. Deliver materials to the Site in manufacturer's labeled, unbroken containers.
- B. Store materials on raised platforms protected from the weather with waterproof covers.
  - 1. Do not stack bundles of shingles more than 4 feet high.
  - 2. Store roll goods on end.

**1.07 PROJECT CONDITIONS**

- A. Do not install underlayment or shingles on wet surfaces.
- B. Do not apply shingles when air temperature is below 40 degrees.
- C. Do not perform the Work of this Section unless the Director's Representative is present or unless he directs that the Work be performed during his absence.
- D. Moisture Protection:
  - 1. Cover, seal or otherwise protect the roof and flashings so that water cannot accumulate or flow under completed portions. When and where necessary to accomplish this, provide temporary water cut-offs.

## 1.08 WARRANTY

- A. Special Warranty: The one year period required by Paragraph 9.8 of the General Conditions is extended to 2 years for the Work of this Section. Refer to Supplementary Conditions.
- B. Manufacturer's Warranty: In addition to the 2 year period specified above, furnish the shingle manufacturer's warranty certifying that the shingles will not warp, shrink, or deteriorate, and that they are free from manufacturing defects as follows:
  - 1. Architectural Asphalt Shingles: 30 year warranty.

## PART 2 PRODUCTS

### 2.01 COMPANIES

- A. CertainTeed Corporation, Roofing Products Group, P.O. Box 860, Valley Forge, PA 19482, (610) 341-7000, [www.certainteed.com](http://www.certainteed.com).
- B. Owens Corning, One Owens Corning Parkway, Toledo, OH 43659, (800) 438-7465, [www.owenscorning.com](http://www.owenscorning.com).
- C. GAF/Elk Corporation, 1361 Alps Road, Wayne, NJ (732) 398-2671, [www.gaf.com](http://www.gaf.com).
- D. Grace Construction Products, 62 Whittemore Ave., Cambridge, MA 02140, (800) 354-5414, [www.na.graceconstruction.com](http://www.na.graceconstruction.com).
- E. NEI, 50 Pine Road, Brentwood, NH, (800) 998-4634, [www.nei-act.com](http://www.nei-act.com).
- F. ADO Products, PO Box 236, 21800 129th Ave. North., Rogers, MN 55374, (866) 240-4933, [www.adoproducts.com](http://www.adoproducts.com).
- G. Plymouth Foam Building Materials, 1800 Sunset Drive Plymouth, WI 53073, (800) 669-1176, [www.plymouthfoam.com](http://www.plymouthfoam.com).

### 2.02 MATERIALS

- A. Architectural Asphalt Shingles:
  - 1. UL Classified, fiberglass or organic, laminated, no cut out, 3 dimensional, self sealing wind resistant shingle with 30 year warranty, ASTM D 3462.
    - a. Landmark Shingles by CertainTeed Corporation, Oakridge Shingles by Owens Corning, or Timberline Natural Shadow Shingles by GAF/Elk Corporation.
  - 2. Algae Protection: Manufacturers maximum protection.
  - 3. Color: As selected from the manufacturer's standard colors.
  - 4. Underlayment: No. 30 asphalt saturated felt, non-perforated, ASTM D 226.

5. Starter Course: 90 lb mineral surfaced felt, ASTM D 249 or asphalt shingles with tabs removed.
  
- B. Concealed Flashing (Vapor Barrier): Self adhering, self sealing, rubberized asphalt sheet membrane with slip resistant surface and manufacturer's primer for masonry surfaces (if any).
  1. Thickness: 40 mils minimum, ASTM D 3767 Method A.
  2. Tensile strength: 250 psi minimum, ASTM D 412.
  3. Elongation: 250 percent minimum, ASTM D 412 (Die C Modified).
  4. Permeance: 0.05 perms maximum, ASTM E 96.
    - a. Grace Ice & Water Shield by Grace Construction Products or AC POLY Ice and StormSeal by NEI.
  
- C. Shingle and Underlayment Fasteners:
  1. Nails: Galvanized or aluminum, 11 or 12 gage, barbed shank roofing nails with 3/8 inch minimum diameter head, and a sufficient length to penetrate through the roofing materials and a minimum 3/4 inch into the roof sheathing.
  
- D. Perimeter Edge Metal:
  1. Prefinished Aluminum: ASTM B 209, 3003-H14 alloy, 0.032 inch thick.
    - a. Finish: Fluorocarbon coating (polyvinylidene Fluoride PVDF). Reverse side primed. Shipped with strippable protective tape.
  
- E. Plastic Cement: Flashing grade, fibrated asphalt roofing cement, ASTM D 4586.
  
- F. Insulation Baffles: ProVent by ADO Products or Vent-Rite by Plymouth Foam Building Products.

## **PART 3 EXECUTION**

### **3.01 PREPARATION**

- A. Cover cracks in roof deck exceeding 1/4 inch in width and knotholes with sheet metal nailed securely in place.
  
- B. Do not proceed with application of shingles until surfaces are dry, free of debris and protruding nails, and properly supported for shingle nailing and application.

### **3.02 APPLICATION**

- A. Installing Concealed Flashings:
  1. Broom clean the deck surface before installation.
  2. Tack the concealed flashing in place if it does not adhere immediately to the deck.
  3. Eaves: Unless shown otherwise on the drawings extend the flashing from the roof edge to a line a minimum of 2 feet beyond the interior face of the building wall.

- B. Installing Perimeter Edge Flashing:
1. Install in lengths not to exceed 10'-0". Lap ends a minimum of 3 inches.
  2. At eaves install the flashing under the underlayment. At rakes install the flashing over the underlayment.
  3. Secure the flashing to the roof deck with nails spaced 8 inches oc.
- C. Installing Asphalt Shingles:
1. Except as shown or specified otherwise, layout, install, and fasten the shingles in accordance with the shingle manufacturer's instructions and specifications.
  2. Fastening:
    - a. Slopes Up To 60 Degrees (20 on 12 slope): Install 4 fasteners per shingle.
    - b. Staples will not be allowed.
    - c. Do not install shingles when ambient temperature is below 40 degrees Fahrenheit.
  3. Eaves: Start shingles at eaves with a starter course. Overlap perimeter edge flashing 1/4 inch.
  4. Non-Vented Ridges: Form the ridges with pieces cut from the roof shingles or use the manufacturer's ridge shingles. Secure each shingle with one nail on each side, 5-1/2 inches back from the exposed end and one inch up from the edge.

**END OF SECTION**