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November 30, 2015

ADDENDUM 2

To: ALL PROSPECTIVE FIRMS

Re: INVITATION FOR BIDS: **16-27-DS Frank Johnson Community Center**

The Invitation for Bids, referenced above, is modified as follows:

1. See attached for roofing and doors.

Please incorporate this change into the Invitation for Bid and acknowledge receipt of this addendum on your bid form.

Sincerely,

Desmond Schneider

Procurement Officer I

Frank Johnson Community Center
Project #15-418.1



Addendum 2

Item 2.1 Specification 07 3100 Asphalt Shingle Roofing

- Add 07 3100 Asphalt Shingle Roofing Specification

Item 2.2 Correction to Table on A9.1

- All doors to receive new door leafs are to receive new frames as well.

Answer to Questions

- Specifications calls out TPO, a drawing 3/A4.2 has a note calling for PVC?

TPO is used in all low slope roof conditions referred to as Single Ply Membrane on A4.1

- The sheet metal specification note "to match adjacent wall panels," the addendum send out (item 1.2) deletes metal wall panels?

Sheet metal color will be chosen from manufacturer's standard colors.

-Regarding the downspout boots noted in 07 7123, 2.03, Please clarify.

Existing cast iron downspout boots to remain.

-Are Hollow metal doors to be 1-3/8" or 1-3/4"?

Doors are to be 1-3/4"

-Addendum 1 requires that the building be sprinklered. Will we be required to provide service to the building? Yes, riser is in room 119, see civil site survey for nearby water connection. GC to coordinate with local fire department for required connection, to include sidewall hose connection and PIV valve adjacent to dropoff area.

SECTION 07 3100

ASPHALT SHINGLE ROOFING

PART I GENERAL

1.01 SECTION INCLUDES

- A. Asphalt roofing shingles.
- B. Leak barrier and roof deck protection.
- C. Metal flashing associated with shingle roofing.
- D. Attic ventilation.

1.02 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry: Framing, wood decking, and roof sheathing.
- B. Section 07620 - Flashing and Sheet Metal: Sheet metal flashing not associated with shingle roofing; gutters and downspouts.
- C. Section 08630 - Unit Skylights: Skylights

1.03 REFERENCES

- A. American Society for Testing and Materials (ASTM) - Annual Book of ASTM Standards
 - 1. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - 2. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
 - 3. ASTM B 370 - Standard Specification for Copper Sheet and Strip for Building Construction.
 - 4. ASTM D 3018 - Standard Specification for Class A Asphalt Shingles Surfaced with Mineral Granules.
 - 5. ASTM D 3161 - Standard Test Method for Wind-Resistance of Asphalt Shingles (Fan-Induced Method).
 - 6. ASTM D 3462 - Standard Specification for Asphalt Shingles Made From Glass Felt and Surfaced with Mineral Granules.
 - 7. ASTM D 4586 - Standard Specification for Asphalt Roof Cement, Asbestos-Free.
 - 8. ASTM D 7158 - Standard Test Method for Wind-Resistance of Sealed Asphalt Shingles (Uplift Force/Uplift Resistance Method).
- B. Underwriters Laboratories (UL) - Roofing Systems and Materials Guide (TFWZ.R21)
 - 1. UL 790 - Tests for Fire Resistance of Roof Covering Materials.
 - 2. UL 997 - Wind Resistance of Prepared Roof Covering Materials.
 - 3. UL 2218 - Impact Resistance of Prepared Roof Coverings Materials.
- C. Asphalt Roofing Manufacturers Association (ARMA)
- D. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) - Architectural Sheet Metal Manual.
- E. National Roofing Contractors Association (NRCA)

F. American Society of Civil Engineers (ASCE).

1. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.

G. U.S. Green Building Council (USGBC)

1.04 DEFINITIONS

A. Roofing Terminology: Refer to ASTM D1079 and the glossary of the National Roofing Contractors Association (NRCA) Roofing and Waterproofing Manual for definitions of roofing terms related to this section.

1.05 SUBMITTALS

A. Submit copies of Roof Manufacturer product data sheets, detail drawings and samples for each type of roofing product.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Provide all primary roofing products, including shingles, underlayment, leak barrier, and ventilation, by a single manufacturer.

B. Installer Qualifications: Installer must be approved for installation of all roofing products to be installed under this section.

1.07 REGULATORY REQUIREMENTS

A. Provide a roofing system achieving an Underwriters Laboratories (UL) Class A fire classification.

B. Install all roofing products in accordance with all federal, state and local building codes.

C. All work shall be performed in a manner consistent with current OSHA guidelines.

1.08 PREINSTALLATION MEETING

A. General: A pre-installation meeting is required.

B. Timing: The meeting shall take place at the start of the roofing installation.

C. Attendees: Meeting to be called for by manufacturer's certified contractor. Meeting's mandatory attendees shall include the certified contractor and the manufacturer's representative. Non-mandatory attendees shall include the owner's representative, architect or engineer's representative, and the general contractor's representative.

D. Topics: Certified contractor and manufacturer's representative shall review all pertinent requirements for the project, including but not limited to, scheduling, weather considerations, project duration, and requirements for the specified warranty.

1.09 DELIVERY, STORAGE, AND HANDLING

A. Store all products in manufacturer's unopened, labeled packaging until they are ready for installation.

B. Store products in a covered, ventilated area, at temperature not more than 110 degrees F (43 degrees C); do not store near steam pipes, radiators, or in direct sunlight.

C. Store bundles on a flat surface. Maximum stacking height shall not exceed of Roof Manufacturer recommendations. Store all rolls on end.

D. Store and dispose of solvent-based materials in accordance with all federal, state and local regulations.

1.10 WEATHER CONDITIONS

A. Proceed with work only when existing and forecasted weather conditions will permit work to be performed in accordance with GAF's recommendations

1.11 WARRANTY

- A. Provide to the owner a manufacturer's roof warranty, equivalent to the basis of design **GAF® WeatherStopper® Golden Pledge® Ltd Warranty** covering:
1. Roofs installed by a Roof Manufacturer approved installer rated for the installation warranty by the manufacturer. "Basis of Design" is a Certified GAF Master Elite™ Contractor only.
 2. Manufacturing defects: 100% coverage for materials and labor for:
 - a 40 years with the first 20 years non-prorated.
 3. Workmanship errors: 100% coverage for workmanship errors for:
 - a 20 years, **Warranty to be provided by roof manufacturer.**
 4. Roof system NOT installed over an existing roof, all existing roof materials must be removed to the deck.
 5. Full roof installations using the following products.
 - a Must use Ice and Water Shield over entire deck, Basis of Design Grace Ice & Water Shield.
 - b You must use roof manufacturers required starter strips for warranty, Basis of Design GAF pre-cut starter strip products (only those with factory applied adhesive) at the eaves
 - c You must use roof manufacturers shingles eligible for the required warranty.
 6. New metal flashings must be installed.
 - a Metal drip edge must be used at eaves.
 7. In addition to the requirements listed above, the installer must register and pay for this warranty. The project must pass roof manufacturers final inspection schedule a start-up and at least one interim inspection on projects of 250 squares or more by contacting Roofing Manufacturer at least three weeks prior to the start of roof work.

PART II PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable Manufacturer:
1. "Basis of Design" GAF, 1 Campus Drive, Parsippany NJ 07054. Tel: 1-973-628-3000.
 2. CertainTeed
 3. Owens Corning
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.02 SHINGLES

- A. Self sealing, granule surfaced, asphalt shingle with a strong fiberglass reinforced core and stain protection, which prevents pronounced discoloration from blue-green algae. Architectural laminate styling provides a wood shake appearance with a 5 5/8 inch exposure. UL 790 Class A rated with UL 997 Wind Resistance Label; ASTM D 7158, Class H; ASTM D 3161, Type 1; ASTM D 3018, Type 1; ASTM D 3462; AC438; CSA A123.5-98; Dade County Approved, Florida Building Code Approved, Texas Dept of Insurance Approved, ICC Report Approval.
- B. Basis of Design: **Timberline® HD** Lifetime High Definition Shingles, by GAF®.
1. Color: As selected from manufacturers' full range.

2.03 HIP AND RIDGE SHINGLES

- A. High profile self sealing hip and ridge cap shingle matching the color of selected roof shingle.
- B. Basis of Design, **Timbertex®** Premium Ridge Cap Shingles, by GAF.

2.04 STARTER STRIP

- A. Self sealing starter shingle designed for all roof shingles.
- B. Basis of Design, **ProStart™ Starter Strip** by GAF.

2.05 LEAK BARRIER

- A. Self-adhering, self sealing, bituminous leak barrier
- B. Basis of Design, Grace Ice and Water Shield

2.06 ROOFING CEMENT

- A. Asphalt Plastic Roofing Cement meeting the requirements of ASTM D 4586, Type I or II.
- B. Roof Cement: ASTM D 4586, Basis of Design, **Matrix™ 203 Plastic Roof Cement**.
- C. Roof Cement: ASTM D 4586. Basis of Design **Matrix™ 204 Wet/Dry Roof Cement**.

2.07 ROOF ACCESSORIES

- A. Exterior acrylic rust resistant aerosol roof accessory paint. Basis of Design **Shingle-Match™** Roof Accessory Paint by GAF.

2.08 ATTIC VENTILATION (may use Cobra® Ridge Vents or MasterFlow™ Ventilation)

1. Not Required, installation over insulated deck.

2.09 NAILS

- A. Standard round wire, zinc-coated steel or aluminum; 10 to 12 gauge, smooth, barbed or deformed shank, with heads 3/8 inch (9mm) to 7/16 inch (11mm) in diameter. Length must be sufficient to penetrate into solid wood at least 3/4 inch (19mm) or through plywood or oriented strand board by at least 1/8 inch (3.18mm).

2.10 METAL FLASHING

- A. Refer to 076200 Sheet Metal Flashing and trim.

PART III EXECUTION

3.01 EXAMINATION

- A. Do not begin installation until the roof deck has been properly prepared.
- B. If roof deck preparation is the responsibility of another installer, notify the architect or building owner of unsatisfactory preparation before proceeding.

3.02 PREPARATION

- A. Remove all existing roofing down to the roof deck.
- B. Verify that the deck is dry, sound, clean and smooth. It shall be free of any depressions, waves, and projections. Cover with galv. sheet metal, all holes over 1 inch (25mm) in diameter, cracks over 1/2 inch (12mm) in width, loose knots and excessively resinous areas.
- C. Replace damaged deck with new materials.
- D. Clean deck surfaces thoroughly prior to installation of eaves protection membrane and underlayment.

3.03 INSTALLATION OF UNDERLAYMENTS

A. General:

1. Install using methods recommended by Roof Manufacturer, in accordance with local building codes. When local codes and application instructions are in conflict, the more stringent requirements shall take precedence.

B. Roof Deck:

1. Install one layer of Ice and Water Shield over the entire roof area.

3.04 INSTALLATION OF SHINGLES

A. General:

1. Install in accordance with Roof Manufacturer's instructions and local building codes. When local codes and application instructions are in conflict, the more stringent requirements shall take precedence.
2. Minimize breakage of shingles by avoiding dropping bundles on edge, by separating shingles carefully (not by "breaking" over ridge or bundles), and by taking extra precautions in temperatures below 40 degrees F (4 degrees C).
3. Handle carefully in hot weather to avoid scuffing the surfacing, or damaging the shingle edges.

B. Placement and Nailing:

1. Beginning with the starter strip, trim shingles so that they "nest" within the shingle located beneath it. This procedure will yield a first course that is typically 3" (76mm) to 4" (102mm) rather than a fully exposed shingle.
2. For maximum wind resistance along rakes, install Roof Manufacturer's starter strip containing sealant or cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.
3. Laterally, offset the new shingles from the existing keyways, to avoid waves or depressions caused by excessive dips in the roofing materials.
4. Using the bottom of the tab on existing shingles, align subsequent courses.
5. *Note: DO NOT install standard sized shingles (5" exposure) over metric (5 5/8" exposure) shingles, as it will overexpose the shingles and reveal the nails. Use standard alignment methods to assure proper shingle placement.
6. Secure with 4, 5, or 6 nails per shingle per Roof Manufacturer's instructions or local codes.
7. Placement of nails varies based on the type of shingle specified. Consult the application instructions for the specified shingle for details.
8. Nails must be driven flush with the shingle surface. Do not overdrive or under drive the nails.
9. Shingle offset varies based on the type of shingle specified. Consult the application instructions for the specified shingle for details.

C. Valleys

1. Install valleys using the "open valley" method:
 - a Snap diverging chalk lines on the metal flashing, starting at 3 inches (76mm) each side of top of valley, spreading at 1/8 inch per foot (9mm per meter) to the eaves.
 - b Run shingles to chalk line.

- c Trim last shingle in each course to match the chalk line; do not trim shingles to less than 12 inches (305mm) wide.
 - d Apply a 2 inch (51mm) wide strip of plastic cement under ends of shingles, sealing them to the metal flashing.
2. Install valleys using the "closed cut valley" method:
- a Run the first course of shingles from the higher roof slope across the valley at least 12 inches (305mm).
 - b Run succeeding courses of shingles from the lower roof slope across the valley at least 12 inches (305mm) and nail not closer than 6 inches (152mm) to center of valley.
 - c Run shingles from the upper roof slope into the valley and trim 2 inches (51mm) from the center line.

D. Penetrations

- 1. All Penetrations are to be flashed according to Roof Manufacturer, ARMA and NRCA application instructions and construction details.

E. Skylights and Roof Hatches

- 1. Consult the manufacturer of the skylight or roof hatch for specific installation recommendations.
- 2. Skylights and roof hatches shall be installed with pre-fabricated metal flashings specifically designed for the application of the unit.

3.05 PROTECTION

- A. Protect installed products from foot traffic until completion of the project.
- B. Any roof areas that are not completed by the end of the workday are to be protected from moisture and contaminants.

END OF SECTION