

Goodwyn Mills Cawood
1219 Wayne Street
Columbia, SC 29201

ADDENDUM NO.3 – OCTOBER 23, 2020

The following items shall take precedence over the drawings and specifications for the above-named project and shall become a part of the contract documents. Where any item called for in the specifications, or indicated on the drawings, is not supplemented hereby, the original requirements shall remain in effect. Where any original item is amended, voided or superseded hereby, the provisions of such item not specifically amended, voided or superseded shall remain in effect.

GENERAL

1. Bidders are hereby advised that information from bid documents which are not received from the sources listed in the Invitation for Bids is not legitimate and the bidder accepts full responsibility for any differences. Goodwyn Mills & Cawood has not authorized the scanning of the documents. Bidders should be aware that the plans are copyrighted and any unlawful use is subject to legal action. Bidders are further advised that the purchase and/or use of partial bid documents is not recommended and bidder will be responsible for any discrepancies which might have been avoided had a full set of documents been reviewed.
2. Listing of multiple products or manufacturers within specifications or approval of products or manufacturers via substitution request does not waive or preclude any and all performance, warranty or specific requirements listed within the specification unless specifically noted in the Addendum. Only manufacturers and products meeting the specification requirements and listed in the specifications or included in the Addendum shall be approved for the project.
3. Bid Closing: Bids shall be submitted to the University of South Carolina as indicated in the SE-310 by **10:30 am on October 29, 2020** to:
Kristen Moss
Project Number H29-9555
1600 Hampton Street, Suite 606
Columbia, SC 29208
4. This addendum forms a part of the Construction Documents and modifies the original Bidding Documents dated 09/18/2020 as noted below. Acknowledge receipt of this addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

ATTACHEMENTS:

Specification Section 04 73 13 - Calcium Silicate Manufactured Stone Masonry

SPECIFICATIONS:

22 00 10 – General Provisions – Plumbing: Replace the existing section 3.3.E. with the following:

Cast Iron Pipe: Joints in bell-and-spigot, cast iron soil, waste and vent pipes, or between cast iron soil waste and vent pipes and threaded pipe or calking ferrules, shall be made using neoprene joints manufactured by Charlotte Pipe, or equal. Joints in cast iron soil pipe and fittings without hubs shall be made using cast iron No-Hub joint with "Clamp-All Corporation" clamp, or approved heavy duty four band clamp as manufactured by Husky (HD 2000 – white shield), Ideal Tridon (Super Heavy-Duty – green shield), or Mission (Heavy weight – blue shield). Coupling shall be tested and certified to ATM C1540.

22 05 00 – Plumbing: Replace the existing section 2.1.F. with the following:

(OPTION) In lieu of steel or bell and spigot pipe, contractor may use the cast iron No-Hub joint with "Clamp-All Corp." clamp, or approved heavy duty four band clamp as manufactured by Husky (HD 2000 – white shield), Ideal Tridon (Super Heavy-Duty – green shield), or Mission (Heavy weight – blue shield). Coupling shall be tested and certified to ASTM C1540.

COMMENTS / QUESTIONS:

The following are comments & questions received for addendum #01:

1. Are there any specifications for the arriscraft masonry shown on detail 10/A5.31?

Response: See Attached Specification Section 04 73 13 - Calcium Silicate Manufactured Stone Masonry

1. Can you confirm detail 10/A5.31 is in the base bid?

Response: Yes, Detail 10 on sheet A5.31 is included in the base bid.

2. Are there any specifications on the 12' x 20' Pergola shown on drawing L1.00?

Response: The 12' x 20' pergola has been excluded from the project and does not need to be included in the Alternate #3 pricing.

END OF ADDENDUM NUMBER 03

SECTION 04 73 13 - CALCIUM SILICATE MANUFACTURED STONE MASONRY

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Calcium silicate masonry units.

1.02 RELATED SECTIONS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.03 REFERENCES

- A. ASTM C73: Standard Specification for Calcium Silicate Face Brick.

1.04 SAMPLES

- A. Samples: Three 8" x 8" samples, of the manufacturer's full range of available standard colors and textures for selection by the Architect with approval by the owner.

1.05 TEST REPORTS

- A. Submit test reports along with associated product data.
- B. Test Reports: test results prepared by an independent testing agency, indicating tested material characteristics as part of a source quality control program, current within the past five (5) years.

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: manufacturer having sufficient plant facilities to produce the shapes, quantities and size of Products required in accordance with the project schedule.
- B. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
 - 1. Build mockup of typical wall area as shown on Drawings.
 - a. Include a sealant-filled joint at least **16 inches (400 mm)** long in mockup.
 - b. Include metal studs, sheathing, sheathing joint-and-penetration treatment, air barrier, veneer anchors, flashing, cavity drainage material, and weep holes in exterior masonry-veneer wall mockup.
 - 2. Clean exposed faces of mockups with masonry cleaner as indicated.
 - 3. Protect accepted mockups from the elements with weather-resistant membrane.

4. Approval of mockups is for color, texture, and blending of masonry units; relationship of mortar and sealant colors to masonry unit colors; tooling of joints; and aesthetic qualities of workmanship.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver calcium silicate masonry units in protective film. Prevent damage to units.
- B. Lift skids with proper and sufficiently long slings or forks with protection to prevent damage to units. Protect edges and corners.
- C. Store units in a manner designed to prevent damage and staining of units.
- D. Stack units on timbers or platforms at least 3 inches above grade.
- E. Place polyethylene or other plastic film between wood and other finished surfaces of units when stored for extended periods of time.
- F. Cover stored units with protective enclosure if exposed to weather.
- G. Do not use salt or calcium-chloride to remove ice from masonry surfaces.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis of Design: Manufacturers of calcium silicate masonry units having Products considered acceptable for use and in compliance with the following requirements.
 - a. Arriscraft International.
 - b. Color: Smooth Oak Ridge
- B. Additional Manufacturers: The Architect shall consider additional Manufacturers that produce products of comparable size units and in the color and texture equal to the Basis of Design Product.

2.02 MATERIALS

- A. Calcium Silicate Masonry Units (Georgia): to ASTM C73, Grade SW; solid units that have been pressure formed and autoclaved; 3-5/8" bed depth; special shapes as indicated; and as follows:
- B. Basis of Design: Provide Arriscraft Renaissance Full Bed Units or product complying with the requirements by the manufacturer's listed above.
 1. Modular Size: 3-5/8" high, 23-5/8" long
 2. Special Shapes: Sill and wall caps – refer to drawings for shapes
 3. Texture: smooth on exposed faces
 4. Color: Limestone color or color as selected by Architect from the manufacturer's standard available colors.
- C. Mortar: 1:1:6 Portland cement-hydrated lime-sand mix, as specified in Section Masonry Veneer Section 04 26 13
 - a. Color: Match Calcium Silicate Masonry Unit color.
- D. Grout: maximum 6,500 psi at 28 days, as specified in Section 04 26 13.
- E. Wall Ties and Anchorages: as specified in Section 04 26 13.
- F. Joint Sealants and Backer Rods: non-staining type, as specified in Section 07 90 00

- G. Flashing, Vents, and Masonry Accessories: as specified in Section 04 26 13.

2.03 FABRICATION TOLERANCES

- A. Fabricate calcium silicate masonry units to the following tolerances:
1. Unit Length: plus or minus 1/16".
 2. Unit Height: plus or minus 1/16".
 3. Deviation From Square: plus or minus 1/16", with measurement taken using the longest edge as the base.
 4. Bed Depth: plus or minus 1/8".
 5. Custom Unit Dimensions: plus or minus 1/8".

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify site conditions are ready to receive work.
- B. Inspect materials for fit and finish prior to installation. Do not set unacceptable units.
- C. Beginning of installation means acceptance of existing conditions.

3.02 CUTTING MASONRY UNITS

- A. Cut masonry units with wet-saw.
- B. Pre-soak units using clean water prior to cutting.
- C. Clean cut units using a stiff fiber brush and clean water. Allow units to surface dry prior to placement.
- D. Finish cut edges to match face when exposed in wall.

3.03 WETTING MASONRY UNITS

- A. Where the ambient air temperature exceeds 100°F or exceeds 90°F with a wind velocity greater than 8 mph, pre-wet masonry units.
- B. Lay wetted units when surface dry.

3.04 COURSING

- A. Place masonry to lines and levels indicated.
- B. Maintain masonry courses to uniform width. Make vertical and horizontal joints equal and of uniform thickness.
- C. Lay masonry units in half-running bond.
- D. Maintain mortar joint thickness of 3/8 inch.
- E. Tool joints when thumbprint hard, to a flush finish.

3.05 PLACING AND BONDING

- A. Lay masonry in full bed of mortar, properly jointed with other work. Buttering corners of joints, deep or excessive furrowing of mortar joints are not permitted.
- B. Fully bond intersections, and external corners.
- C. Do not adjust masonry units after laying. Where resetting of masonry is required, remove, clean units and reset in new mortar.
- D. Install wall ties and anchorages as specified in Section 04 26 13.
- E. Install flashings, vents, and masonry accessories as specified in Section 04 26 13
- F. Construct movement joints as specified in Section 04 26 13

3.06 FIELD QUALITY CONTROL

- A. Perform inspection and testing as specified in Section 04 26 13
- B. Architect Inspection: Architect will inspect installed masonry and reject masonry that is chipped, cracked, or blemished (streaked, stained or otherwise damaged), as described below.
 - 1. Masonry will be inspected to be free of cracks or other blemishes on the finished face or front edges of the masonry units exceeding 3/8 inch or that can be seen from a distance of 10 feet.
 - 2. Units shall exhibit a texture approximately equal to the approved sample when viewed under diffused daylight illumination at a 20 foot distance.
 - 3. Minor chipping resulting from shipment and delivery shall not be grounds for rejection. Minor chips shall not be obvious under diffused daylight illumination from a 20 foot distance.
 - 4. Efflorescence will not be cause for rejection.
- C. Make Good rejected masonry as directed by Architect.

3.08 ADJUSTING AND CLEANING

- A. Repair chips on smooth finished units with patch kits furnished by manufacturer.
- B. Clean a 100 square foot area of wall designated by Architect as directed below and leave for one week. If no harmful effects appear, all objectionable stains have been removed and after mortar has set and cured, clean masonry as follows:
 - 1. Protect windows, sills, doors, trim and other work from damage.
 - 2. Remove large particles with [stiff fiber brushes] [wood paddles] without damaging surface.
 - 3. Saturate masonry with clean water and flush off loose mortar and dirt.
 - 4. Dilute cleaning agent with clean water in controlled proportions.
 - 5. Apply solution to pre-soaked wall surface using soft-bristled brush and / or low pressure acid-resistant sprayer.
 - 6. Thoroughly rinse cleaning solution and residue from wall surface.

- C. Use alternative cleaning solutions and methods for difficult to clean masonry only after consultation with masonry unit manufacturer.

3.09 PROTECTION

- A. Protect units from damage resulting from subsequent construction operations.
- B. Use protection materials and methods which will not stain or damage units.
- C. Remove protection materials upon Substantial Completion, or when risk of damage is no longer present.

END OF SECTION