



Issued May 14, 2015

**RE: University of South Carolina  
Athletic Village Improvements – Track and Field Upgrades  
State Project No. H27-6105-MJ-A  
CHA Project No. 27481**

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**ADDENDUM NO. 2**

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TO: ALL HOLDERS OF RECORD OF CONTRACT DOCUMENTS

Acknowledge receipt of this addendum by inserting its number and date in the Bid Form. Failure to do so may subject bidder to disqualification. This addendum forms a part of the Contract Documents. It modifies them as follows:

**GENERAL INFORMATION AND QUESTIONS ANSWERED**

1. The following product substitutions are acceptable:
  - a. From The Schneider Company: The following electrical products: Lumenpulse (for P2 as shown on drawings); H.E. Williams (for FA as shown on drawings); H.E. Williams (for FB as shown on drawings); Pathway Lighting Products I (for CF as shown on drawings); Juno (for LED as shown on drawings); Emergi-Lite (for EM as shown on drawings); RAB (for Q1 as shown on drawings); U.S. Architectural Lighting (for LLF10 as shown on drawings).
  - b. From Carlile Coatings and Waterproofing: fire resistant air barriers; CCW R2+ polyiso insulation; EPS: CCW Insulwall.
  - c. From Metal Roofing Systems, Inc.: MRS System 1500 for the metal roof referenced in section 074113.16 Standing Seam Metal Roof Systems.
  - d. From Brentwood Industries: Urban Root System Alternative/StormTank for the silva-cell tree root system as detailed on drawing C-605. Plan layout and shop drawings shall be approved. Slight modifications to the standard system may be required.
2. CLARIFICATION regarding the underground stormwater detention system: Any substituted underground detention system designs per the approved alternates list do not require an impermeable membrane to prevent infiltration, although no infiltration shall be considered in the design of the system.
3. QUESTION: Finish schedule indicates epoxy flooring but there is no specification for epoxy. There is also a Ceramic Tile (specification) section with

none shown on the schedule. ANSWER: There is no ceramic tile on the job. That specification will be removed and replaced with an epoxy flooring spec.

4. QUESTION: Drawing C-102 has a section cut 4 on drawing C-601. Section 4 on C-601 shows a brick retaining wall but we don't see this wall on the plan views. Is there a wall required? ANSWER: The brick retaining wall begins generally around the mid-line of the track as shown on the layout plan. Dimensions to the end of the wall are shown on the plans.
5. QUESTION: Drawing C-104 references elevations on C-602. We do not see an elevation of 2 of the walls (the 2 walls that basically run north-south based on the north arrow) Are these walls low walls with steel fencing or something else? ANSWER: Elevation 4 on sheet C-602 shows the wall construction for the north-south section of wall.
6. QUESTION: The storm drainage structures show a 8" walls, floors and a 6" extension on the base slab. Can we quote SCDOT structures that have 6" walls and floors? Also, are round manhole structures acceptable? ANSWER: Yes, we will accept any structures that are SCDOT approved.
7. QUESTION: Paragraph 1.2 of section 230900 of your specification implies that this project will have a building automation system. Paragraph 2.1.B mentions a Standalone Digital Controller. Can you please clarify if the control system for this project is to be part of a Building Automation System or if it is to have stand-alone controls. ANSWER: The plans are correct and there is no intention for this building to be remotely monitored. It will have a stand-alone system.

### **SPECIFICATIONS**

1. DELETE Section 093013 Ceramic Tiling.
2. ADD Section 096723 FL - Resinous Flooring, attached.

### **DRAWINGS**

1. No drawing changes.

**END OF ADDENDUM NO. 2**

## SECTION 096723 - RESINOUS FLOORING

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section includes resinous flooring systems.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include manufacturer's technical data, application instructions, and recommendations for each resinous flooring component required.
- B. Samples for Verification: For each resinous flooring system required, **6 inches (150 mm)** square, applied to a rigid backing by Installer for this Project.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.
- B. Material Certificates: For each resinous flooring component, from manufacturer.
- C. Material Test Reports: For each resinous flooring system, by a qualified testing agency.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For resinous flooring to include in maintenance manuals.

#### 1.6 QUALITY ASSURANCE

- A. Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.
- B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
  - 1. Apply full-thickness mockups on **96-inch- (2400-mm-)** square floor area selected by Architect.

Retain first subparagraph below for integral cove base.

- a. Include 96-inch (2400-mm) length of integral cove base with inside and outside corner.
2. Simulate finished lighting conditions for Architect's review of mockups.
3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's labels indicating brand name and directions for storage and mixing with other components.

#### 1.8 FIELD CONDITIONS

- A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring application.
- B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.
- C. Close spaces to traffic during resinous flooring application and for 24 hours after application unless manufacturer recommends a longer period.

### PART 2 - PRODUCTS

#### 2.1 PERFORMANCE REQUIREMENTS

- A. Flammability: Self-extinguishing according to ASTM D 635.

#### 2.2 MANUFACTURERS

- A. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, from single source from single manufacturer. Obtain secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from manufacturer recommended in writing by manufacturer of primary materials.

## 2.3 RESINOUS FLOORING

- A. Resinous Flooring System: Abrasion-, impact-, and chemical-resistant, aggregate-filled, and resin-based monolithic floor surfacing designed to produce a seamless floor and integral cove base.
1. **Manufacturers:** Subject to compliance with requirements, provide products by one of the following:
    - a. **BASF Corporation; Construction Systems.**
    - b. **CornerStone Flooring & Linings.**
    - c. **Crossfield Products Corp.**
    - d. **Duraflex, Inc.**
    - e. **Key Resin Company.**
    - f. **Sika Corporation; Flooring.**
    - g. **Stonhard, Inc.**
- B. System Characteristics:
1. Color and Pattern: As selected by Architect from manufacturer's full range.
  2. Wearing Surface: Textured for slip resistance.
  3. Overall System Thickness: **20 mils (0.5 mm).**
- C. Primer: Type recommended by resinous flooring manufacturer for substrate and resinous flooring system indicated.
- D. Waterproofing Membrane: Type recommended by resinous flooring manufacturer for substrate and resinous flooring system indicated.
- E. Patching and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated.
- F. Body Coats:
1. Resin: Urethane .
  2. Formulation Description: High solids.
  3. Type: Pigmented.
  4. Application Method: Self-leveling slurry with broadcast aggregates.
  5. Number of Coats: Two.
  6. Aggregates: Manufacturer's standard.
- G. Topcoats: Sealing or finish coats.
1. Resin: Urethane.
  2. Formulation Description: High solids.
  3. Type: Clear.
  4. Number of Coats: Two.
  5. Finish: Matte.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry substrate for resinous flooring application.
- B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with resinous flooring.
  - 1. Roughen concrete substrates as follows:
    - a. Comply with ASTM C 811 requirements unless manufacturer's written instructions are more stringent.
  - 2. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written instructions.
  - 3. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.
    - a. Anhydrous Calcium Chloride Test: ASTM F 1869. Proceed with application of resinous flooring only after substrates have maximum moisture-vapor-emission rate of **3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m)** of slab area in 24 hours.
  - 4. Alkalinity and Adhesion Testing: Verify that concrete substrates have pH within acceptable range. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.
- C. Patching and Filling: Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.
  - 1. Control Joint Treatment: Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written instructions.
- D. Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.

### 3.2 APPLICATION

- A. Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.
  - 1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
  - 2. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.

3. Expansion and Isolation Joint Treatment: At substrate expansion and isolation joints, comply with resinous flooring manufacturer's written instructions.
  - B. Primer: Apply primer over prepared substrate at manufacturer's recommended spreading rate.
  - C. Integral Cove Base: Apply cove base mix to wall surfaces before applying flooring. Apply according to manufacturer's written instructions and details, including those for taping, mixing, priming, troweling, sanding, and topcoating of cove base. Round internal and external corners.
    1. Integral Cove Base: 4 inches (100 mm) high.
  - D. Self-Leveling Body Coats: Apply self-leveling slurry body coats in thickness indicated for flooring system.
    1. Aggregates: Broadcast aggregates at rate recommended by manufacturer and, after resin is cured, remove excess aggregates to provide surface texture indicated.
  - E. Topcoats: Apply topcoats in number indicated for flooring system and at spreading rates recommended in writing by manufacturer and to produce wearing surface indicated.

### 3.3 PROTECTION

- A. Protect resinous flooring from damage and wear during the remainder of construction period. Use protective methods and materials, including temporary covering, recommended in writing by resinous flooring manufacturer.

END OF SECTION 096723