

# University of Louisville

PURCHASING DEPARTMENT  
LOUISVILLE, KENTUCKY

Invitation No: IB-07-09

Date: July 25, 2008

Title: Bus Station Addition to Floyd Street Garage

Addendum No. Three (3)

The following shall clarify and/or modify the original bid document(s) as issued by the University of Louisville.

1. **Add the attached Changes to this Invitation to Bid**
2. **Change Bid opening to August 5, 2008 at 2:00 PM**

Bidder must acknowledge receipt of this and any addenda either with bid or by separate letter. Acknowledgement must be received in the Office of Purchasing, Service Complex Building, University of Louisville not later than **August 5, 2008 at 2:00 PM**. If by separate letter, the following information must be placed in the lower left hand corner of the envelope:

Invitation No: IB-07-09

Title: Bus Station Addition to Floyd Street Garage

Open Date: August 5, 2008 at 2:00 PM

BY: Curtis Monroe  
Authorized Purchasing Officer

Receipt Acknowledged: \_\_\_\_\_  
FIRM

BY: \_\_\_\_\_

### **Addendum #3**

Bus Station / Waiting Area Addition

University of Louisville

Arrasmith, Judd, Rapp, Chovan Inc. Architects

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Bus Station / Waiting Area Addition  
Floyd Street Parking Garage  
Addendum No. 3 – July 25, 2008

Bidder shall conform to the following changes, as they shall become binding upon the contract to be issued in response to this invitation to bid.

Refer to the attached pages for additions and / or deletions on the above subject project.

Bidders must acknowledge receipt of this and any addenda with bid.

### **Specifications**

Item #01: Section 03366 “Water Based Reactive Stained Concrete Floor”, revise as follows:

- Delete section 03366 in its entirety.

Item #02: Section 03367 “Chemically Stained Concrete Floor”, revise as follows:

- Add the attached section 03367 “Chemically Stained Concrete Floor”, the entire interior floor slab to be stained as described in this section.

Item #03: Section 07536 “Cold Applied Modified Bitumen Roofing”, revise as follows:

- At paragraph 3.2.A replace “Concrete Deck” with “Metal Deck”.
- At paragraph 3.3.B revise second sentence to read: “Mechanically fasten first layer of insulation to deck using fasteners specifically designed for attachment of specified board type insulation to deck type shown and as per manufacturer’s recommendations.”

SECTION 03366 - CHEMICALLY STAINED CONCRETE FLOOR

**PART 1 - GENERAL**

**1.1 SUMMARY**

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to Work of this Section.
- B. Section Includes:
  - 1. Chemically stained concrete floor finish.
  - 2. Sealer.
- C. Related Sections:
  - 1. Division 3 Section "Cast-In-Place Concrete" for general applications of concrete.
  - 2. Division 7 Section "Joint Sealants" for colored sealant for joints.

**1.2 SUBMITTALS**

- A. Product Data: Manufacturer's technical data sheets and installation instructions for each product specified.
- B. Samples for Initial Selection: Manufacturer's color charts showing full range of colors available.
- C. Qualification Data: For firms indicated in "Quality Assurance" Article, including lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

**1.3 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Manufacturer of stain and sealer products shall have minimum 10-years experience in the production of the specified products.
- B. Installer Qualifications: Minimum 3-years experience in staining applications and successfully completed not less than 6 projects comparable in scale and complexity.

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- C. Substitutions: The use of any products other than those specified shall be considered providing that the Contractor requests its use in writing within 14 days prior to bid date. This request shall be accompanied by:
  - 1. A certificate of compliance from the material manufacturer stating that the proposed products meet or exceed the requirements specified.
  - 2. Documented proof that the proposed material has a 10 year proven record of performance for staining concrete substrates, confirmed by at least 5 local projects that the Architect can examine.
  
- D. Regulatory Requirements:
  - 1. Products shall comply with the United States Clean Air Act for maximum Volatile Organic Compound (VOC) content as specified in PART 2 of this section.
  
- E. Source Limitations: Obtain each specified material from same source and maintain high degree of consistency in workmanship throughout Project.
  
- F. Field Samples:
  - 1. Provide under provisions of Division 1 Section "Quality Control."
  - 2. At location on Project selected by Architect, prepare field samples 4 by 4 feet for review and approval.
  - 3. Construct field samples using processes and techniques intended for use on permanent work, including curing procedures. Include samples of control, construction, and expansion joints in [mockup] [field sample] panels.
  - 4. Field samples shall be stained and sealed by the individual workers who will actually be performing the work for the Project.
  - 5. Obtain written approval of the field samples from Architect before start of work.
  - 6. Retain approved [mockup] [field samples] through completion of the Work for use as a quality standard for finished work.
  - 7. Approved field samples may become part of the completed Work if undisturbed at time of Substantial Completion.
  
  - 8. Remove [mockup] [field samples] when directed.

#### 1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver the specified products in original, unopened containers with legible manufacturer's identification and information.
  
- B. Store specified products in conditions recommended by the manufacturer.

#### 1.5 PROJECT CONDITIONS

- A. Environmental Conditions: Maintain an ambient temperature of between 50° and 90° F during application and at least 48 hours after application.

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- B. Protection: Precautions shall be taken to avoid damage or contamination of any surfaces near the work zone. Protect completed stain work from moisture or contamination.

## 1.6 PRE-JOB CONFERENCE

- A. One week prior to the placement of Chemical Stain a meeting will be held to discuss the project and application of materials.
- B. The Architect, General Contractor, Subcontractor and a Manufacturer Representative be present.

## PART 2 - PRODUCTS

### 2.1 ACCEPTABLE MANUFACTURERS

- A. Manufacturer: L.M. SCOFIELD COMPANY, Douglasville, Georgia and Los Angeles, California (800) 800-9900 or the appropriate local contact: Eastern Division – 201-672-9050; Western Division – 714-568-1870; Central Division Office – 630-377-5959 – or equal.

### 2.2 MATERIALS

- A. Chemical Stains: LITHOCHROME<sup>®</sup> Chemstain<sup>™</sup>; L.M. SCOFIELD COMPANY, or equal, reactive water-based solution of metallic salts which react with the calcium hydroxide in the cured concrete substrate to produce permanent, variegated or translucent color effects.
  - 1. Colors: As selected by Architect from manufacturer's full range.
- B. Sealers:
  - 1. CEMENTONE<sup>®</sup> Clear Sealer; L.M. SCOFIELD COMPANY, or equal, a one-part, water-based acrylic sealer made specifically to seal old or new, exterior or interior concrete flatwork.
- C. Sealants: LITHOSEAL<sup>™</sup> Trafficalk-3G<sup>™</sup>; L.M. SCOFIELD COMPANY, or equal.
  - 1. Colors: As selected by Architect from manufacturer's full range.

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**PART 3 - EXECUTION**

**3.1 EXAMINATION**

- A. Verification of Conditions: Contractor shall examine areas and conditions under which work will be performed and identify conditions detrimental to proper and timely completion of work. Do not proceed until unsatisfactory conditions have been corrected.
- B. Compliance with Manufacturer's Instructions: Contractor shall obtain, understand and comply with the current versions of the manufacturer's technical data sheets and installation instructions as referenced in Section 1.2.A. Wherever technical data such as preparation or installation instructions differs from language in this specification or other written material, the information submitted in accordance with Section 1.2.A is considered definitive.

**3.2 PREPARATION**

- A. New Concrete:
  - 1. Newly placed concrete shall be sufficiently cured to allow concrete to become reactive, minimum 14 days.
  - 2. If any of the following colors are used, the minimum cure time of the concrete shall be 30 to 60 days to meet water vapor transmission requirements.
    - a. Copper Patina.
    - b. Fern Green.
    - c. Weathered Bronze.
  - 3. Do not use liquid curing materials. Cure concrete flatwork with new, unwrinkled, non-staining, high quality curing paper. Do not overlap curing paper.
  - 4. Surfaces shall be cured using the same method and different sections (pours) chemically stained when the concrete is the same age.
  - 5. Immediately prior to chemically staining, thoroughly clean the concrete. Sweep surfaces, then pressure wash or scrub using a rotary floor machine. Use suitable, high quality commercial detergents to facilitate cleaning. Rinse surfaces after cleaning until rinse water is completely clean. Allow floor to dry completely prior to application of floor stain.
- B. Scoring: Score decorative jointing in concrete surfaces 1/8-inch (3.2 mm) deep with diamond blades. Rinse until water is completely clean. Score [before] [after] staining.

**3.3 APPLICATION OF CHEMICAL STAIN**

- A. Concrete surfaces shall be dry and properly prepared as described above. Protect surrounding areas from over-spray, run-off and tracking. Divide surfaces into small

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work sections using wall, joint lines, or other stationary breaks as natural stopping points.

- B. Apply chemical stains full strength (undiluted) at the coverage rate recommended by the manufacturer and use application equipment described in the manufacturer's printed technical literature. The color of the liquid chemical stain has no resemblance to the final color produced on the concrete substrate.
- C. Chemical stains normally fizz when reacting with the concrete. If fizzing does not occur, the substrate has not been adequately prepared or the concrete pH level is too low. If this should happen, contact the local representative for further recommendations.
- D. Transfer chemical stain to the substrate by brush or spray and immediate scrub into surface.
- E. Reaction time depends on wind conditions, temperatures, and humidity levels.
- F. When multiple coats of one or more colors are required, washing and drying between colors is desirable to evaluate the color prior to the next coat.
- G. After the final coat of chemical stain has remained on the surface for a minimum of four hours, remove all residue by wet scrubbing with commercial grade detergent. Rinse surfaces after scrubbing until rinse water is completely clean. Run off may stain the adjacent areas or harm plants. Collect rinse water by wet vacuuming or absorbing with an inert material.

### 3.4 APPLICATION OF SEALER

- A. Concrete substrate shall be completely dry.
- B. Sealer shall be produced by the chemical stain manufacturer.
- C. Test surface for proper PH level prior to applying sealer.
- D. Apply sealer according to manufacturer's written instructions at a rate of 300 to 500 square feet per gallon per coat.
- E. Maintain a wet edge at all times.
- F. Allow sealer to completely dry before applying additional coats.
- G. Apply second coat of sealer at 90 degrees to the direction of the first coat using the same application method and rates.
- H. Seal horizontal joints in areas subject to pedestrian or vehicular traffic.

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**3.5 PROTECTION**

- A. Protect floor from traffic for at least 72 hours after final application of sealer.

**3.6 MAINTENANCE**

- A. Maintain chemically stained and sealed floors by sweeping. Clean spills when they occur and rinse dirt off with water. Wet-clean heavily soiled areas by mopping or by scrubbing with a rotary floor machine equipped with a scrubbing brush and a suitable, high quality commercial detergent. Maintain interior floors that require polishing by using a compatible, premium-grade, emulsion-type, commercial floor polish, following manufacturer's instructions and safety requirements.
  - 1. Information on commercial floor polishes is available by contacting Johnson Diversey, Sturtevant, Wisconsin, 800-558-2332.

END OF SECTION