



INVITATION FOR BIDS

CCK-2617.0-13-25  
UK Agriculture Research Facility 1 – BP06 Fitout Group 2  
PROJECT # 2617.0  
ADDENDUM # 2  
02/12/2025

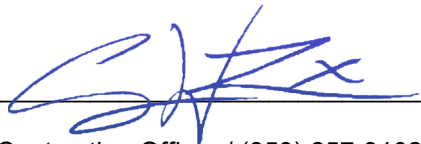
**IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY 2/27/2025 @ 3:00 P.M. LEXINGTON, KY TIME**

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

**ITEM #1: CLARIFICATIONS AND MODIFICATIONS TO THE CONTRACT DOCUMENTS**

Bidders are directed to review and incorporate the attached Addendum #2 document from Turner Construction Company and BHDP Architects into their offers (34pages, including the Q&A Log).

**OFFICIAL APPROVAL**  
**UNIVERSITY OF KENTUCKY**



Contracting Officer / (859) 257-9102

**SIGNATURE**

\_\_\_\_\_  
\_\_\_\_\_  
Typed or Printed Name



UK AG Research Building  
BID PACKAGE – 06 Fitout Group 2  
ADDENDUM No. 2  
CCK-2617.0-13-25  
2/12/2025

*TCCO Addendum #2*

**Attachment B**

**1. TC-042 Painting**

**a. Bid Breakout**

- i. Add item 10 under description of work: Painting of MEP Piping per spec 202400 Identifications, Tags, Charts, Etc.
- ii. Add item 4 in the Allowance section: Exterior Bollard Sleeve Allowance \$20,000

**b. B. Specifications**

- i. Add item 6.h: 20 2400 Identifications, Tags, Charts, Etc. (as related to this scope)

**c. C. Scope Specific Items**

- i. Add item C.25: This contractor shall paint all exposed MEP items as identified in specification section 20 2400 Identifications, Tags, Charts, Etc. Reference the UK Standard Color Coding for Mechanical Piping Chart within the specification section for systems that require painting and the color of that system. Reference the reflective ceiling plans and any room noted “CES” Ceiling exposed shall receive these painted MEP systems per the specification. Addendum 02

**d. E. Allowances**

- i. Add Allowance 4: Exterior Bollard Sleeve Allowance (\$20,000)

**Attachments Included:**

- BHDP Addendum 02 – 20250210 – UK AG Research Fitout Addendum 02
- Attachment B – TC-042 Painting – Revised Addendum 02

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**Date** 2/10/2025  
**Project Title** University of Kentucky  
Agriculture Research Facility 1  
**To** All Plan Holders  
**Purpose** Modify the Bid Documents  
**Distribution** All Plan Holders  
University of Kentucky  
Turner Construction  
A/E Design Team

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**TO ALL BIDDERS:** This Addendum modifies the Contract Documents and shall be taken into account in preparing bid proposals and shall become a part of the Contract Documents.

**Specifications:**

- Item 1. 09 6723 - Resinous Flooring
  - Updated manufacturers and product types under Part 2.
- Item 2. 09 9600 - High-Performance Coatings
  - Added a manufacturer under Part 2.

Respectfully Submitted,



Kelly Gardner  
Senior Architect  
BHDP Architecture

**ATTACHMENTS**

- 1. 09 6723 - Resinous Flooring\_GRP2-ADD-2
- 2. 09 9600 - High-Performance Coatings\_GRP2-ADD-2

**END OF ADDENDUM 2**

**SECTION 09 6723  
RESINOUS FLOORING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Resinous flooring systems.

**1.02 REFERENCE STANDARDS**

- A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency.
- B. ASTM C307 - Standard Test Method for Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacing.
- C. ASTM C413 - Standard Test Method for Absorption of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes.
- D. ASTM C579 - Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes.
- E. ASTM C580 - Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes.
- F. ASTM D2240 - Standard Test Method for Rubber Property--Durometer Hardness.
- G. ASTM D2794 - Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- H. ASTM D4060 - Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.
- I. ASTM D4263 - Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method.
- J. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
- K. ASTM D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
- L. ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- M. ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.
- N. MIL-D-3134 - Deck Covering Materials, including Revision J.

**1.03 PRE-INSTALLATION MEETING**

- A. Pre-Installation Meeting: Conduct conference at Project site.

**1.04 SUBMITTALS**

- A. Product Data: For each type of product indicated. Include manufacturer's technical data, application instructions, and recommendations for each resinous flooring component required.
- B. Samples: For each resinous flooring system required, 6 inches square, applied to a rigid backing by Installer for this Project.
- C. Product Schedule: For resinous flooring. Use same designations on Drawings.
- D. Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.
- E. Material Certificates: For each resinous flooring component, from manufacturer.
- F. Material Test Reports: For each resinous flooring system.
- G. Maintenance Data: For resinous flooring to include in maintenance manuals.

### **1.05 QUALITY ASSURANCE**

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of flooring systems required for this Project.
  - 1. Engage an installer who is certified in writing by resinous flooring manufacturer as qualified to apply resinous flooring systems indicated.
- B. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, from single source from single manufacturer. Provide secondary materials, including patching and fill material, joint sealant, and repair materials, of type and from source recommended by manufacturer of primary materials.

### **1.06 MOCKUPS**

- A. Mockups: Apply 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 48 inch square floor area selected by Architect.
    - a. Include 48 inch length of integral cove base with inside and outside corner.
  - 2. Simulate finished lighting conditions for Architect's review of mockups.
  - 3. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

### **1.07 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.

### **1.08 PROJECT 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 not less than 24 hours after application unless manufacturer recommends a longer period.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. FH1 - Basis-of-Design: Stonhard, Inc.; Stoncald HT/Stonkote HT4: [www.stonhard.com](http://www.stonhard.com). Provide indicated product, or comparable product by the following:
  - 1. Master Builders Solutions/BASF: [www.master-builders-solutions.basf.us](http://www.master-builders-solutions.basf.us).
  - 2. DUDICK Inc.: [www.dudick.com](http://www.dudick.com).
  - 3. Dur-A-Flex, Inc.: [www.dur-a-flex.com](http://www.dur-a-flex.com).
  - 4. Sika Corporation, Industrial Flooring Div.: [usa.sika.com](http://usa.sika.com).
  - 5. Prime Coat Coating Systems: [www.primecoat.com](http://www.primecoat.com).
- B. ~~RF4~~ FH2 - Basis-of-Design: Stonhard, Inc.; Stonshield HRI: [www.stonhard.com](http://www.stonhard.com). Provide indicated product, or comparable product by the following:
  - 1. Master Builders Solutions/BASF: [www.master-builders-solutions.basf.us](http://www.master-builders-solutions.basf.us).
  - 2. DUDICK Inc.: [www.dudick.com](http://www.dudick.com).
  - 3. Dur-A-Flex, Inc.: [www.dur-a-flex.com](http://www.dur-a-flex.com).
  - 4. Sika Corporation, Industrial Flooring Div.: [usa.sika.com](http://usa.sika.com).
  - 5. Prime Coat Coating Systems: [www.primecoat.com](http://www.primecoat.com).

### **2.02 MATERIALS**

- A. VOC Content of Liquid-Applied Flooring Components: Not more than 100 g/L when calculated per 40 CFR 59, Subpart D:

### 2.03 RESINOUS FLOORING

- A. Resinous Flooring: Abrasion-, impact- and chemical-resistant, decorative-aggregate-filled, epoxy-resin-based, monolithic floor surfacing designed to produce a seamless floor and integral cove base.
- B. FH1 - Stonclad HT/Stonkopte HT4:
1. System Characteristics:
    - a. Color and Pattern: As selected by Architect from manufacturer's full range.
    - b. Wearing Surface: Smooth.
    - c. Overall System Thickness: 1/4 inch.
  2. Primer:
    - a. Material Basis: Stonhard HT Primer.
    - b. Resin: Bisphenol F, Epoxy.
    - c. Formulation Description: (2) two component, 100 percent solids.
    - d. Application Method: Squeegee and roller
    - e. Number of Coats: One.
  3. Mortar Base:
    - a. Material Base: Stonclad HT.
    - b. Resin: Bisphenol F, Epoxy.
    - c. Formulation Description: (3) three component, 100 percent solids.
    - d. Application Method: Metal trowel.
      - 1) Thickness of Coats: 1/4 inch.
      - 2) Number of Coats: One.
    - e. Aggregates: Pigmented Blended aggregate.
  4. Topcoat:
    - a. Material Base: Stonkote HT4.
    - b. Resin: Bisphenol F, Epoxy.
    - c. Formulation Description: (2) two component, 100 percent solids.
    - d. Type: Pigmented.
    - e. Finish: Standard.
    - f. Number of Coats: One.
  5. System Physical Properties: Provide resinous flooring system with the following minimum physical property requirements when tested according to test methods indicated:
    - a. Compressive Strength: 11,500 psi per ASTM C579.
    - b. Tensile Strength: 2,250 psi per ASTM C307.
    - c. Flexural Strength: 5,000 psi per ASTM C580.
    - d. Water Absorption: <1 percent per ASTM C413.
    - e. Impact Resistance: > 160 in. lbs. per ASTM D2794.
    - f. Flammability: Class 1 per ASTM E648.
    - g. Abrasion Resistance: 0.08 gm maximum weight loss per ASTM D4060.
    - h. Hardness: 87 to 90, Shore D per ASTM D2240.
- C. FH2 - Stonshield HRI:
1. System Characteristics:
    - a. Color and Pattern: As selected by Architect from manufacturer's full range.
    - b. Wearing Surface: Textured for slip-resistance.
    - c. Overall System Thickness: 1/4 inch.
  2. Primer:
    - a. Material Basis: Stonhard Standard Primer.
    - b. Resin: Epoxy.
    - c. Formulation Description: (2) two component, 100 percent solids.
    - d. Application Method: Squeegee and roller
    - e. Number of Coats: One.

3. Mortar Base:
  - a. Material Base: Stonshield HRI Base.
  - b. Resin: Epoxy.
  - c. Formulation Description: 100 percent solids.
  - d. Type: Clear.
  - e. Application Method: Self-leveling slurry with broadcast aggregates.
    - 1) Thickness of Coats: 1/8 inch.
    - 2) Number of Coats: One.
  - f. Aggregates: Colored quartz (ceramic-coated silica).
4. Topcoat: Sealing or finish coats.
  - a. Material Base: Stonkote CE4.
  - b. Resin: Epoxy.
  - c. Formulation Description: (2) two component, 100 percent solids, UV Stable.
  - d. Type: Clear.
  - e. Finish: Gloss.
  - f. Number of Coats: One.
5. System Physical Properties: Provide resinous flooring system with the following minimum physical property requirements when tested according to test methods indicated:
  - a. Compressive Strength: 10,000 per ASTM C579.
  - b. Tensile Strength: 2,000 per ASTM C307.
  - c. Flexural Modulus of Elasticity: 4,300 per ASTM C580.
  - d. Water Absorption: 0.1 percent per ASTM C413.
  - e. Impact Resistance: No chipping, cracking, or delamination and not more than 1/16 inch permanent indentation per MIL-D-3134.
  - f. Abrasion Resistance: 0.06 maximum weight loss per ASTM D4060.
  - g. Flammability: Self-extinguishing per ASTM D635.
  - h. Hardness: 85 to 90, Shore D per ASTM D2240.

## 2.04 ACCESSORIES

- A. Primer: Type recommended by manufacturer for substrate and body coats indicated.
  1. Formulation Description: 100 percent solids.
- B. Waterproofing Membrane: Type recommended by manufacturer for substrate and primer and body coats indicated.
  1. Formulation Description: 100 percent solids.
- C. Patching and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated.
- D. Joint Sealant: Type recommended or produced by resinous flooring manufacturer for type of service and joint condition indicated. Allowances should be included for Stonflex MP7 joint fill material.

## PART 3 EXECUTION

### 3.01 PREPARATION

- A. Prepare and clean substrates per resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry substrate for resinous flooring application.
  1. At locations where resinous flooring base laps high performance wall coating systems, prepare wall coating to bond to resinous floor base in accordance with manufacturer's recommendations.
- 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. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
- b. Comply with manufacturer's written instructions.
2. Repair damaged and deteriorated concrete per 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. Perform anhydrous calcium chloride test, ASTM F1869. Proceed with application of resinous flooring only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/100 sq. ft. of slab area in 24 hours.
  - b. Perform plastic sheet test, ASTM D4263. Proceed with application only after testing indicates absence of moisture in substrates.
  - c. Perform relative humidity test using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement.
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. Use patching and fill material to fill holes and depressions in substrates per manufacturer's written instructions.
- D. Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring per manufacturer's written instructions.
- E. Resinous Materials: Mix components and prepare materials per resinous flooring manufacturer's written instructions.

### **3.02 APPLICATION**

- A. General: Apply resinous flooring system components per manufacturer's 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 instructions. Prevent contamination during application and curing processes.
  3. At substrate expansion and isolation joints, comply with resinous flooring manufacturer's instructions.
- B. Apply primer over prepared substrate at manufacturer's recommended spreading rate.
- C. Apply waterproofing membrane, where indicated, in manufacturer's recommended thickness.
  1. Apply waterproofing membrane to integral cove base substrates.
- D. Integral Cove Base: Apply cove base mix to wall surfaces before applying flooring. Apply per manufacturer's 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 high.
- E. Apply self-leveling slurry body coats in thickness indicated for flooring system.
  1. Broadcast aggregates at rate recommended by manufacturer and, after resin is cured, remove excess aggregates to provide surface texture indicated.
- F. Apply troweled or screeded body coats in thickness indicated for flooring system. Hand or power trowel and grout to fill voids. When cured, remove trowel marks and roughness using method recommended by manufacturer.
- G. Apply topcoats in number indicated for flooring system and at spreading rates recommended in writing by manufacturer.



### **3.03 FIELD QUALITY CONTROL**

- A. Core Sampling: At the direction of Owner and at locations designated by Owner, take one core sample per 1000 sq. ft. of resinous flooring, or portion of, to verify thickness. For each sample that fails to comply with requirements, take two additional samples. Repair damage caused by coring and correct deficiencies.
- B. Material Sampling: Owner may at any time and any number of times during resinous flooring application require material samples for testing for compliance with requirements.
  - 1. Owner will engage an independent testing agency to take samples of materials being used. Material samples will be taken, identified, sealed, and certified in presence of Construction Manager.
  - 2. Testing agency will test samples for compliance with requirements, using applicable referenced testing procedures or, if not referenced, using testing procedures listed in manufacturer's product data.
  - 3. If test results show applied materials do not comply with specified requirements, pay for testing, remove noncomplying materials, prepare surfaces coated with unacceptable materials, and reapply flooring materials to comply with requirements.

### **3.04 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**

**SECTION 09 9600**  
**HIGH-PERFORMANCE COATINGS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Surface preparation and application of high-performance coating systems.
  - 1. Interior Substrates:
    - a. Concrete, vertical surfaces.
    - b. Concrete masonry units (CMU).
    - c. Steel.

**1.02 REFERENCE STANDARDS**

- A. 40 CFR 59, Subpart D - National Volatile Organic Compound Emission Standards for Architectural Coatings; U.S. Environmental Protection Agency.
- B. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications.
- C. ASTM D523 - Standard Test Method for Specular Gloss.
- D. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual.
- E. SSPC-PA 1 - Shop, Field, and Maintenance Coating of Metals.
- F. SSPC-SP 6/NACE No.3 - Commercial Blast Cleaning.

**1.03 DEFINITIONS**

- A. General: Standard coating terms defined in ASTM D16 apply to this Section.
- B. Sheen: As defined by MPI (APSM).
  - 1. Wherever reference is made to sheen finish or gloss, provide reflectivity, when measured with a gloss meter per ASTM D523, as follows for each designation:
    - a. Gloss Level 5: Semi-Gloss: Not less than 35 units, nor more than 70 units, at a 60 degree meter.
    - b. Gloss Level 6: Full Gloss: Not less than 70 units, nor more than 85 units, at a 60 degree meter.
    - c. Gloss Level 7: High Gloss: More than 85 units at a 60 degree meter.

**1.04 SUBMITTALS**

- A. Product Data: Provide complete list of all products to be used, with the following information for each:
  - 1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
  - 2. Cross-reference to specified coating system(s) product is to be used in; include description of each system.
- B. Samples for Initial Selection: For each type of topcoat product indicated.
- C. Samples for Verification: For each type of coating system and in each color and gloss of topcoat indicated.
  - 1. Submit Samples on rigid backing, 8 inches square.
  - 2. Step coats on Samples to show each coat required for system.
  - 3. Label each coat of each Sample.
  - 4. Label each Sample for location and application area.
- D. Product List: For each product indicated, include the following:
  - 1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
  - 2. VOC content.

### **1.05 MOCKUPS**

- A. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
  - 1. Architect will select one surface to represent surfaces and conditions for application of each coating system specified in Part 3.
    - a. Wall and Ceiling Surfaces: Provide samples of at least 100 sq. ft.
    - b. Other Items: Architect will designate items or areas required.
  - 2. Final approval of color selections will be based on 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.

### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
  - 1. Maintain containers in clean condition, free of foreign materials and residue.
  - 2. Remove rags and waste from storage areas daily.
- B. Container Label: Include manufacturer's name, type of coating, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.
- C. Coating Materials: Store at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

### **1.07 FIELD CONDITIONS**

- A. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- B. Do not install materials when temperature is below 55 degrees F or above 90 degrees F.
- C. Maintain this temperature range, 24 hours before, during, and 72 hours after installation of coating.
- D. Restrict traffic from area where coating is being applied or is curing.

## **PART 2 PRODUCTS**

### **2.01 MANUFACTURERS**

- A. Carboline; [www.carboline.com](http://www.carboline.com). (Carboline)
- B. PPG Architectural Coatings; [www.ppgac.com](http://www.ppgac.com). (PPG)
- C. Tnemec Company, Inc.; [www.tnemec.com](http://www.tnemec.com). (Tnemec)
- D. Prime Coat Coating Systems: [www.primecoat.com](http://www.primecoat.com).

### **2.02 HIGH-PERFORMANCE COATINGS, GENERAL**

- A. Coatings - General: Provide complete multi-coat systems formulated and recommended by manufacturer for the applications indicated, in the thicknesses indicated; number of coats specified does not include primer or filler coat.
  - 1. Lead Content: Not greater than 0.06 percent by weight of total nonvolatile content.
  - 2. Chromium Content, as Hexavalent Chromium, Zinc Chromate, or Strontium Chromate: None.
  - 3. Volatile Organic Compound (VOC) Content:
    - a. Provide coatings that comply with the most stringent requirements specified in the following:
      - 1) 40 CFR 59, Subpart D--National Volatile Organic Compound Emission Standards for Architectural Coatings.

- b. Determination of VOC Content: Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site; or other method acceptable to authorities having jurisdiction.
- B. Material Compatibility:
  1. Provide materials for use within each coating system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  2. For each coat in a coating system, provide products recommended in writing by manufacturers of topcoat for use in coating system and on substrate indicated.
  3. Provide products of same manufacturer for each coat in a coating system.
- C. Colors: As selected by Architect from manufacturer's full range.
  1. Tnemec Company, Inc.; 00WH White: [www.tnemec.com](http://www.tnemec.com).

### **2.03 SOURCE QUALITY CONTROL**

- A. Testing of Coating Materials: Owner reserves the right to invoke the following procedure:
  1. Owner will engage the services of a qualified testing agency to sample coating materials. Contractor will be notified in advance and may be present when samples are taken. If coating materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
  2. Testing agency will perform tests for compliance with product requirements.
  3. Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying coating materials from Project site, pay for testing, and recoat surfaces coated with rejected materials. Contractor will be required to remove rejected materials from previously coated surfaces if, on recoating with complying materials, the two coatings are incompatible.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
  1. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
    - a. Concrete: 12 percent.
    - b. Masonry: 12 percent.
    - c. Gypsum Board: 12 percent.
- B. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Proceed with coating application only after unsatisfactory conditions have been corrected.
  1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

### **3.02 PREPARATION**

- A. Comply with manufacturer's written instructions and recommendations applicable to substrates indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
  1. After completing coating operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.

- C. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
  - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.
- D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
  - 1. Clean surfaces with pressurized water. Use pressure range of 1500 to 4000 psi at 6 to 12 inches.
  - 2. Abrasive blast clean surfaces to comply with SSPC-SP 7/NACE No. 4, "Brush-Off Blast Cleaning."
- E. Masonry Substrates: Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions.
  - 1. Clean surfaces with pressurized water. Use pressure range of 100 to 600 psi at 6 to 12 inches.
- F. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer.
  - 1. SSPC-SP 6/NACE No.3, "Commercial Blast Cleaning."
- G. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

### **3.03 APPLICATION**

- A. Apply high-performance coatings per manufacturer's written instructions.
  - 1. Use applicators and techniques suited for coating and substrate indicated.
  - 2. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces.
  - 3. Coat back sides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
  - 4. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
- D. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.
  - 1. Application of Primer/Block Filler to CMU: Apply block filler to CMU to provide a smooth, uniform surface free of trowel marks, laps, ridges, and other surface imperfections.
  - 2. Voids and Pin Holes: Following application of primer/block filler, examine surface of CMU for evidence of voids or pin holes. If pin holes or voids are found, apply additional primer/block filler.

### **3.04 FIELD QUALITY CONTROL**

- A. Dry Film Thickness Testing: Owner will engage the services of a qualified testing and inspecting agency to inspect and test coatings for dry film thickness.
  - 1. Contractor shall touch up and restore coated surfaces damaged by testing.
  - 2. If test results show that dry film thickness of applied coating does not comply with coating manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with coating

manufacturer's written recommendations.

- B. Inspection for Pin Holes and Other Surface Defects: On-site supervisor of personnel applying high performance coating shall perform a visual inspection for voids and pin holes in finished coatings.
  - 1. In order to guarantee a 100 percent pinhole-free surface, visually inspect for voids and pin holes following application of primer/filler and again after application of finished coating. Visually inspect for pin holes at a distance not greater than 5 feet from the coated surface. Inspect each surface in every room and space where coatings have been applied. Perform inspection under finished lighting conditions or use temporary lighting that simulates finished lighting.
    - a. Maintain log of inspection in tabular form; include the following:
      - 1) Date of inspection.
      - 2) Room or area inspected.
      - 3) Note whether inspection is for primer/filler or finished coating.
      - 4) Amount of time spent inspecting each room or area.
      - 5) Location of each pin hole or other surface defect in coating that requires correction.
      - 6) Mark location of each pin hole or other surface defect using temporary marker that can be easily removed without staining surface.
      - 7) Written recommendations for repair of each type of surface defect including required materials and methods of application.
      - 8) Name and signature of manufacturer's technical representative.
    - b. Submit log to Owner and Architect when inspection is complete. Architect will review log and visit Site to verify that inspection is complete. Architect's review and inspection is not an approval of the materials and methods used to repair surface defects.

### **3.05 CLEANING AND PROTECTION**

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from coating operation. Correct damage by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

### **3.06 INTERIOR HIGH-PERFORMANCE COATING SCHEDULE**

- A. Steel Substrates:
  - 1. Semi-Gloss, Urethane Finish: Semi-gloss aliphatic acrylic urethane over hydrophobic acrylic primer.
    - a. Primer: Hydrophobic acrylic undercoat, as recommended by manufacturer for this substrate, applied at rate to achieve a total dry film thickness of not less than 2.0 mils.
      - 1) Carboline: Carboguard 893 SG.
      - 2) PPG: Amerlock 600 AK600 Series.
      - 3) Tnemec: Uni-Bond Series 115.
    - b. Intermediate Coat: Semi-gloss, Aliphatic acrylic urethane applied at rate recommended by manufacturer to achieve a total dry film thickness of not less than 3.0 mils.
      - 1) Tnemec: Endura-Shield Series 1095.
      - 2) PPG: Pittthane Ultra LS 95-8930 Urethane Enamel Series.

- c. Finish Coat: Semi-gloss, Aliphatic acrylic urethane applied at rate recommended by manufacturer to achieve a total dry film thickness of not less than 3.0 mils.
  - 1) Tnemec: Endura-Shield Series 1095.
  - 2) PPG: Pittthane Ultra LS 95-8930 Urethane Enamel Series.
2. Gloss, Urethane Finish: Gloss aliphatic acrylic urethane over polyamide epoxy primer.
  - a. Primer: Polyamide epoxy undercoat, as recommended by manufacturer for this substrate, applied at rate to achieve a total dry film thickness of not less than 4.0 mils.
    - 1) Carboline: Carboguard 893 SG.
    - 2) PPG: Amerlock 600 AK600 Series.
    - 3) Tnemec: Hi-Build Epoxoline Series 66.
  - b. Intermediate Coat: Full-gloss, Aliphatic acrylic urethane enamel applied at rate recommended by manufacturer to achieve a total dry film thickness of not less than 4.0 mils.
    - 1) Carboline: Carbothane 134 SG.
    - 2) PPG: Pittthane Ultra 95-812 Gloss Urethane Enamel.
    - 3) Tnemec: Endura-Shield Series 1074.
  - c. Finish Coat: Full-gloss, Aliphatic acrylic urethane enamel applied at rate recommended by manufacturer to achieve a total dry film thickness of not less than 4.0 mils.
    - 1) Carboline: Carbothane 134 SG.
    - 2) PPG: Pittthane Ultra 95-812 Gloss Urethane Enamel.
    - 3) Tnemec: Endura-Shield Series 1074U.
- B. CMU Substrates:
  1. Gloss, Modified Polyamine Epoxy Finish: Epoxy finish coat over an epoxy filler/primer
    - a. Prime/Filler Coat: 100 percent solids epoxy filler, applied at rate to achieve a total dry film thickness of not less than 15 mils.
      - 1) Tnemec: Series 215 Surfacing Epoxy.
      - 2) PPG: Amerlock 400 BF; applied at 10-20 mils DFT
    - b. Base Coat: 100 percent solids polyamide epoxy basecoat, applied at rate to achieve a total dry film thickness of not less than 5 mils.
      - 1) Tnemec: Series 201 Epoxoprime.
      - 2) Amerlock 2 AK2; applied at 4-8 mils DFT.
    - c. Finish Coat: 100 percent solids gloss polyamide epoxy, applied at rate to achieve a total dry film thickness of not less than 12 mils.
      - 1) Tnemec: Series 280 Tneme Glaze; 2 coats required.
      - 2) HPC High Gloss 95-500; applied at 4-6 mils DFT.
  2. Fiberglass mat reinforced polyamine epoxy wall coating system with gloss aliphatic urethane topcoat.
    - a. Primer: Modified polyamine epoxy filler and surface, applied at rate recommended by manufacturer (1/32 inch to 1/8 inch).
      - 1) Tnemec: Series 215 Surfacing Epoxy.
      - 2) PPG: Amerlock 2; applied at 6 – 8 mils DFT
    - b. Base Coat: Polyamine epoxy with fiberglass mat reinforcing, applied at rate to achieve a total dry film thickness of not less than 25 mils.
      - 1) Tnemec: Series 273 Stranlok ML; 2 coats required.
        - (a) Fiberglass mat reinforcing.
      - 2) PPG: Sanishield 3000; applied at 50 – 60 mils DFT
        - (a) NO Fiberglass mat required.
    - c. Topcoat: Low VOC gloss aliphatic urethane, applied at rate to achieve a total dry film thickness of not less than 2.5 mils.
      - 1) Tnemec: Series 297 Enviro-Glaze.
      - 2) PPG: Sanishield 5000; applied at 15-20 mils DFT

C. Gypsum Board Substrates:

1. Gloss, Modified Polyamine Epoxy Finish
  - a. Primer: 100 percent solids epoxy filler, applied at rate to achieve a total dry film thickness of not less than 3 mils.
    - 1) Tnemec: Series 201 Epoxoprime; 2 coats required.
    - 2) PPG: Amerlock 2; 2 coats required.
  - b. Topcoat: Gloss modified polyamine epoxy applied at rate recommended by manufacturer to achieve a total dry film thickness of not less than 6.0 mils per coat.
    - 1) Tnemec: Series 280 Tneme-Glaze; 2 coats required.
    - 2) PPG: HPC High Gloss 95-500; 2 coats required
  - c. Total dry film thickness (DFT): Not less than 18 mils.
2. Semi-Gloss, Epoxy Finish:
  - a. Primer: Waterborne modified polyamine epoxy primer, applied at rate to achieve a total dry film thickness of not less than 1.2 mils.
    - 1) Tnemec: Elasto-Grip FC 151-1051.
    - 2) PPG: Aquapon WB EP Water Based Epoxy 98E-1.
  - b. Topcoat: Semi-Gloss waterborne acrylic epoxy applied at rate achieve a total dry film thickness of not less than 5.0 mils per coat.
    - 1) Tnemec: Series 113 H.B. Tneme-Tufcoat; 2 coats required.
    - 2) PPG: Aquapon WB EP Water based Epoxy 98E-1
3. Semi-Gloss, Urethane Finish: Urethane finish coat over a primer/sealer.
  - a. Primer/Sealer: Waterborne acrylic primer/sealer, as recommended by manufacturer for this substrate, applied at rate to achieve a total dry film thickness of not less than 1.5 mils.
    - 1) Carboline: Sanitile 120 Heavy Duty Bonding Primer.
    - 2) Tnemec: Series 201 Epoxoprime.
    - 3) PPG: 17-921XI Seal Grip Int./Ext. Acrylic Latex Stain Blocking Primer.
  - b. Finish Coat: Semi-gloss, aliphatic acrylic urethane enamel applied at rate recommended by manufacturer to achieve a total dry film thickness of not less than 3.0 mils.
    - 1) Carboline: Carbothane 134 VOC
    - 2) Tnemec: Endura-Shield Series 1074.
    - 3) PPG: Pitthane Ultra LS 95-8930 Urethane Enamel Series.
4. Fiberglass mat reinforced polyamine epoxy wall coating system with gloss aliphatic urethane topcoat.
  - a. Primer: Waterborne acrylic primer applied at rate recommended by manufacturer to achieve a total dry film thickness of not less than 3.0 mils per coat.
    - 1) Tnemec: Series 201 Epoxoprime; 2 coats required
    - 2) PPG: Speedhide Primer/Sealer 6-2; applied at 1-5 – 2 mils DFT.
  - b. Base Coat: Polyamine epoxy with fiberglass mat reinforcing, applied at rate to achieve a total dry film thickness of not less than 25 mils.
    - 1) Tnemec: Series 273 Stranlok ML; 2 coats required.
      - (a) Fiberglass mat reinforcing.
    - 2) PPG: Sanishield 3000; applied at 50 – 60 mils DFT
      - (a) No Fiberglass mat required.
  - c. Topcoat: Low VOC gloss aliphatic urethane, applied at rate to achieve a total dry film thickness of not less than 2.5 mils.
    - 1) Tnemec: Series 297 Enviro-Glaze.
    - 2) PPG: Sanishield 5000; applied at 15-20 mils DFT.

**END OF SECTION**



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Attachment "B"  
SCOPE OF WORK  
TC-042 Painting

UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION  
FORM OF PROPOSAL: TC-042 Painting

Project No. 2617.0 Project Title: Ag Research Facility BP-06 Fitout – Group 2

Purchasing Officer: Corey W. Leslie

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: \_\_\_\_\_  
(NAME AND ADDRESS OF BIDDER)

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

TO: BID CLERK  
UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION  
  
PROCUREMENT  
RM. 322 SERVICE BUILDING  
LEXINGTON, KY. 40506-0005

INVITATION TO BID: CCK-2617.0-13-25  
  
BID OPENING DATE: February 27, 2025  
  
TIME: 3:00 P.M. Lexington, KY time

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification. Bidder understands that successful bidder will enter into a contract with Turner Construction Company utilizing Turner's Subcontract Agreement Form 36 without modification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_  
ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_  
ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_  
ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

**(Here insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)**

**NOTE: IN ADDITION TO THE SPECIFIC TRADE FORM OF PROPOSAL EACH SUBCONTRACTOR MUST ALSO SUBMIT FORMS FOUND IN THE SUPPLEMENTAL FORM OF PROPOSAL SECTION.**

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-042 Painting**

Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

**Alternates: (See Specification Section 01 2300 for Alternate Information)**

**Alternate 1: Fourth Floor Build Out** \$ \_\_\_\_\_

**Alternate 2: Autoclaves** \$ \_\_\_\_\_

**Alternate 3: Greenhouse Tables and Shelving** \$ \_\_\_\_\_

**Alternate 4: Roller Window Shades in Rooms A0100 and A0102** \$ \_\_\_\_\_

**Alternate 5: Greenhouse Card Readers** \$ \_\_\_\_\_

**Alternate 6: Biological Safety Cabinets** \$ \_\_\_\_\_

Attachment "B"  
SCOPE OF WORK  
TC-042 Painting

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. CCK-2617.0-13-25 have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY STATE ZIP CODE

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_



**Attachment "B"**  
**SCOPE OF WORK**  
**TC-042 Painting**

THE FOLLOWING ITEMS ARE HERewith ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

---

(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.



Attachment "B"  
SCOPE OF WORK  
TC-042 Painting

HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$



Attachment "B"  
SCOPE OF WORK  
TC-042 Painting

PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-042 Painting

BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1	Engineering & Submittals				\$	\$
2	Joint Sealants				\$	\$
3	Prime Painting				\$	\$
4	1 <sup>st</sup> Coat Painting				\$	\$
5	Final Painting				\$	\$
6	High Performance Coatings				\$	\$
7	Concrete Floor Sealing				\$	\$
8	Intumescent Paint				\$	\$
9	07 9200.13 Vivarium and Laboratory Joint Sealants				\$	\$
10	Painting of MEP Piping per spec 202400 – Addendum 02				\$	\$
11					\$	\$
12					\$	\$
13					\$	\$
14					\$	\$
15					\$	\$
Please list and breakdown below any work that has not been listed above						
16					\$	\$
17					\$	\$
18	Management				\$	\$
19	Safety and Housekeeping				\$	\$
20	General Work Requirements				\$	\$
21	Overhead and Profit				\$	\$
<b>Allowances (to be included in bid amount)</b>						
1	Document Control Server Allowance				\$	\$10,000
2	Additional Intumescent Painting				\$	\$30,000
3	Schedule maintenance OT Allowance				\$	\$50,000
4	Exterior Bollard Sleeve Allowance Add. 02				\$	\$20,000
<b>TOTAL BID AMOUNT</b>						\$
(This amount should match the Lump Sum listed on Form of Proposal)						
Cost of Payment & Performance Bond (DO NOT INCLUDE THIS COST IN BID AMOUNT)						\$

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-042 Painting**

Attachment A – Additional Provisions and Attachment B – (Technical) Scope of Work go together to define the requirements of this Subcontract. Attachment A is a more of a general Summary of the Contract Documents, Price, etc., while Attachment B is the Trade Specific (technical) Scope of Work.

The work of this Agreement shall include, but not be limited to, all labor, materials, apparatus, hoisting, rigging, tools, equipment, plant, supplies, accessories, samples, submittals, shop drawings, certifications, engineering, layout, transportation, storage, supervision, temporary construction, special services, contributions, insurance, taxes (unless specifically excluded by the Contract Documents), compliance with all governing agencies (city, county, state, federal and others as may be required), permits, fees, all other services and facilities and other items necessary for the performance of the **Painting Work** as shown, detailed and/or implied in the contract documents outlined in the General Scope of Work.

The Scope of Work Document is being provided for your use as a general guideline. Please note, this Document is not all-inclusive. It is this Subcontractor's responsibility to provide a complete bid, including all work for this trade indicated on ALL of the contract documents (include plans, specifications, Bid Manual, etc.). It is this Subcontractor's responsibility for the entire scope of this Bid Package and coordination between all trades.

A.	GENERAL
1.	Provide labor, material, equipment, and all else necessary to furnish and install complete the TC-042 Work as required by the contract documents and as outlined below
2.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
3.	The intention is to have the successful Subcontractor perform all the TC-042 related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
4.	Detail references are included for convenience, but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
5.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings                             <ul style="list-style-type: none"> <li>• <b>UK AG Research Facility 1 Fitout Package Bid and Permit Set Volume 1 Dated 11/15/24</b></li> <li>• <b>UK AG Research Facility 1 Fitout Package Bid and Permit Set Volume 2 Dated 11/15/24</b></li> </ul> </li> <li>• Specifications                             <ul style="list-style-type: none"> <li>• <b>UK AG Research Facility 1 Fitout Package Bid and Permit Set Project Manual Dated 11/15/2024</b></li> </ul> </li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample 3A Page</li> <li>• Reference Drawings Included                             <ul style="list-style-type: none"> <li>• <b>Prospiant's Greenhouse Design Drawings for Rooftop Greenhouses</b></li> <li>• <b>BP-02 Site Enabling Package – dated 3/13/24</b></li> <li>• <b>BP-03/3.1 Foundations and Long Lead Equipment – dated 5/2/24</b></li> <li>• <b>BP-04 Core and Shell – dated 6/28/24</b></li> <li>• <b>BP-05 Teaching Greenhouse – Dated 10/11/24</b></li> </ul> </li> </ul>

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3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b>
	<ul style="list-style-type: none"> <li>a. Attachment A – Additional Provisions</li> <li>b. Attachment C - Safety Program</li> <li>c. Attachment E - Accounting Procedures</li> <li>d. Attachment F - Percentage Markup</li> <li>e. Attachment G - Bid Schedule</li> <li>f. Attachment H - BIM General Requirements</li> <li>g. Attachment I - LEAN Subcontract Exhibit</li> <li>h. Attachment J – Electronic Agreement</li> <li>i. Attachment K – CCIP Manual</li> <li>j. Attachment L – UK Tree Protection Standards</li> <li>k. Attachment M – Part 1 and Part 2 LEED Construction Waste Management Plan</li> <li>l. Attachment N – Turner Subcontractor Onboarding</li> <li>m. Attachment O – Enhancing Worker Experience Plan</li> <li>n. Attachment P – LEED Indoor Air Quality Management Plan</li> </ul>
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – Site Logistics Plan</li> <li>b. SK-002 – Misc Metals</li> <li>c. SK-003 – Tent and HVAC rental Agreements</li> <li>d. SK-004 – CM Office - Good Barn Layout</li> <li>e. SK-005 – Temporary Power Plan</li> <li>f. SK-006 – Lab Furnishings Responsibility Matrix</li> </ul>
6.	<b>Specifications</b>
	<p>The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below.</p> <ul style="list-style-type: none"> <li>a. <b>DIVISION 00 – PROCUREMENT &amp; CONTRACTING REQUIREMENTS (ALL SECTIONS)</b></li> <li>b. <b>DIVISION 01 – GENERAL REQUIREMENTS (ALL SECTIONS)</b></li> <li>c. <b>07 9200 – JOINT SEALANTS (as applicable to this scope of work)</b></li> <li>d. <b>07 9200.13 – JOINT SEALANTS – LABORATORY &amp; VIVARIUM (Complete)</b></li> <li>e. <b>07 8123 – Intumescent Paint (Complete)</b></li> <li>f. <b>09 9123 – INTERIOR PAINTING (Complete)</b></li> <li>g. <b>09 9600 – HIGH PERFORMANCE COATINGS (Complete)</b></li> <li>h. <b>20 2400 – Identifications, Tags, Charts, Etc. (as related to this scope) – Addendum 02</b></li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature, and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

C.	SPECIFIC SCOPE ITEMS
1.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed
2.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
3.	Include protection all adjacent structures during performance of this work. Plan for protection of adjacent structures must be part of the overall plan submitted for approval prior to start of work
4.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
5.	Subcontractor change order requests shall be provided with sufficient detail (as acceptable to Turner) to allow for satisfactory review. Subcontractor shall be allowed a maximum mark up for overhead and profit

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	per the markup provisions included in the Subcontract Agreement, or as clarified in Contract Documents above
6.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
7.	<b>Verify layout</b> provided by others. Where this subcontractor is performing work using layout provided by others, this subcontractor shall perform sufficient verification of that layout to reasonably ascertain the validity of that layout. Any deficiencies (or suspected deficiencies found) shall be reported to Turner immediately to allow corrections as needed before start of work by this subcontractor.
8.	All Subcontractors must be <b>licensed</b> as required by local, State, or Federal jurisdiction required for work of this trade in this project location
9.	This Subcontractor will comply with Turner's corporate <b>safety policy</b> and comply with Site Specific Safety Plan that will include but is not limited to 100% tie-off above 6 feet, 100% Safety Glasses, High Visibility Vests or High Vis style T-Shirts with reflective strips, 100% glove policy, Ladders Last Policy and Nothing Hits the Ground. If you are unfamiliar with any of these policies please ask to see the policy prior to submitting your bid. Failure to be familiar with these policies will not exclude you from complying with them.
10.	Refer to <b>Project General Work Requirements</b> in volume one of the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors and they shall include those costs in their respective total lump sum bid price.
11.	This Trade Contractor shall participate in the construction of on-site <b>mock-ups</b> as specified and indicated by the documents and/or noted elsewhere. This shall include providing of materials required for this trade contract scope of work, coordinating with other trade contractors with regard to sequencing of installations and protection of materials, furnishing shop drawings and /or setting drawings, etc. Materials for in place or interim mock-ups shall be secured in advance of normal procurement to allow for ALL trade contractor installations, owner/designer and user reviews and evaluations, meetings, approvals and directive if applicable. Mockups are understood to start with arrangement of wall rough-in through complete room finishes.
12.	Temporary Provisions <ul style="list-style-type: none"> <li>a. Provide <b>task lighting</b> beyond the temporary or permanent lighting provided by others as needed to ensure proper finishes.</li> <li>b. Provide "<b>WET PAINT</b>" signs, in English and Spanish, as required for newly painted areas to protect finishes and other trades.</li> </ul>
13.	Assume the <b>final coat of paint</b> will be installed after the adjacent finishes and elements are in place, including but not limited to: flooring, floor base, ceiling grid, ceiling tiles, finished doors and hardware, casework and millwork, plumbing fixtures, Owner Furnished Equipment, light fixtures, light switch and receptacle covers, toilet accessories, marker boards, etc. This may include masking of finished installed items. Architectural punchlist will be done after final coat. This contractor to provide punchlist touch up as required and identified during the punch list process after final paint. It is the intent that there will be a separate punchlist solely focused on painting after architectural punchlist is complete. Coordinate timing of final coat with construction manager.
14.	Refer to <b>FINISH LEGEND &amp; PLANS</b> for material selections and locations. Include and coordinate the Room Finish Schedule with the complete set of project drawings. If discrepancies are found between the Finish Schedule, Finish Plans, and Specifications, this contractor shall notify the construction manager immediately and assume the most expensive option until clarification can be given.
15.	This contractor shall provide <b>JOINT SEALANTS</b> as required for this scope of work and as shown on the Contract Documents and in accordance with specification sections <b>07 9200</b> which includes but not limited to: <ul style="list-style-type: none"> <li>a. ALL Hollow Metal frames (including but not limited to Door frames, HM windows, View windows (AKA Borrowed Lights), Access doors and any other item (excluding casework) requiring caulk/sealant. Include caulking/ sealing of the bottoms of hollow metal door frames to finished flooring. Caulking of door frames shall be coordinated with the installation of doors.</li> <li>b. Include caulking of exterior curtainwall and storefront where walls/soffits/ceilings meet exterior wall.</li> <li>c. Include caulking of all elevator door frames to interior finish elements.</li> <li>d. Caulking/ sealing of interior aluminum openings is by others. (TC-030)</li> </ul>

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	<p>This contractor is to include <b>\$7,500</b> (above &amp; beyond base work scope) of <b>joint sealants</b> with the necessary finishing materials, tools &amp; labor to be used at the discretion and approval of the Construction Manager. This allowance is in addition to any allowances listed in the allowance section on the bid breakout form.</p>
16.	<p>This contractor shall provide <b>INTERIOR PAINTING (COMPLETE)</b> WP1-WP9, CP1-CP4 as required for this scope of work and as shown on the Contract Documents and in accordance with specification section <b>09 9123</b> which includes but not limited to:</p> <ul style="list-style-type: none"> <li>a. Include painting of masonry, concrete, steel, galvanized metals, gypsum, aluminum, HM doors and frames, etc. as specified.</li> <li>b. Include preparation of surfaces to receive finish. Painting a wall indicates acceptance of the wall finish.</li> <li>c. Include painting of all gypsum board ceilings and bulkheads.</li> <li>d. Include painting of all access panels/doors.</li> <li>e. Include painting of all metal stairs, handrails ladders, and other metal work required to be painted. <ul style="list-style-type: none"> <li>1. Access at top of stairwells will be provided by TC-036 for other trades use.</li> </ul> </li> <li>f. Anticipate that all doors will arrive with hardware pre-installed. This contractor TC-042 Painting is to include "cutting-in painting" for unfinished doors i.e. hollow metal doors, etc.</li> <li>g. Ceilings may or may not be fully installed prior to prime or 1st paint coat installations on wall partitions.</li> <li>h. Pay particular attention to overspray of MEP specialty items, including data cable. Replacement at the expense of this contractor may be required if deemed "unacceptable".</li> <li>i. Include taping off of all applicable MEP items, including but not limited to controls, sprinkler heads, labels, valves, etc.</li> <li>j. Include painting of plywood in electrical and data closets.</li> <li>k. This contractor shall include necessary paint touch up, normal and customary to the scope of work of this size, difficulty, and scale.</li> <li>l. This contractor is to include \$10,000 and 400 additional hours (above &amp; beyond base work scope) of paint touch-up with the necessary finishing materials and tools to be used at the discretion and approval of the Construction Manager.</li> <li>m. This contractor is to include \$10,000 and 200 additional hours (above &amp; beyond base work scope) of door frame touch-up with the necessary finishing materials and tools to be used at the discretion and approval of the Construction Manager.</li> </ul> <p>This contractor is responsible for protecting painted hollow metal frames and doors using Ram Board or similar product. Contractor to maintain protection until directed to remove by the Construction Manager.</p>
17.	<p>This contractor to provide <b>HIGH PERFORMANCE COATINGS (COMPLETE)</b> WH1, WH2, WH3, CH1 as required for this scope of work and as shown on the Contract Documents and in accordance with specification section <b>09 9600</b>.</p> <p>This contractor is to include \$5,000 and 100 additional hours (above &amp; beyond base work scope) of high performance coatings touch-up with the necessary finishing materials and tools to be used at the discretion and approval of the Construction Manager.</p>
18.	<p>This contractor to provide <b>INTUMESCENT FIRE PROTECTION (COMPLETE)</b> as required for this scope of work and as shown on the Contract Documents and in accordance with specification section <b>07 8123</b>.</p>
19.	<p>This contractor to provide all exterior painting complete as noted on the contract documents including but not limited to bollards, handrails, etc.</p>
20.	<p>This contractor to provide all equipment/scaffolding etc. necessary to perform this scope of work.</p>
21.	<p>This contractor to provide complete all sealed concrete designated as FG2 on the finish plans.</p>
22.	<p>This contractor to provide <b>Joint Sealants – Vivarium and Laboratory (COMPLETE)</b> as required by the documents and specified in <b>07 9200.13</b>.</p> <ul style="list-style-type: none"> <li>a. Per the specification, a single source contractor is to provide this scope. This contractor to include all sealants as required by the documents in the vivarium and laboratory areas. All items in these areas will be sealed.</li> </ul>
23.	<p>Include cost in base bid for 2% of the total manhours anticipated for this scope to be used at the direction of the CM as <b>"Composite Cleanup"</b>.</p>

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24.	Per the schedule in attachment G, this contractor to provide dedicated foreman and personal for start and completion of the first floor as soon as it becomes available to start work, regardless of the sequence and flow of the remaining floors. It is the intention that the 1 <sup>st</sup> floor will be constructed simultaneously with other floors. All necessary manpower and supervision required to meet the schedule should be included in the base bid.
25	This contractor shall paint all exposed MEP items as identified in specification section 20 2400 Identifications, Tags, Charts, Etc. Reference the UK Standard Color Coding for Mechanical Piping Chart within the specification section for systems that require painting and the color of that system. Reference the reflective ceiling plans and any room noted "CES" Ceiling exposed shall receive these painted MEP systems per the specification. Addendum 02

D.	EXCLUSIONS
	The Scope of Work shall exclude the following:
1.	Payment & Performance Bond

E.	ALLOWANCES
	<p>The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices &amp; written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.</p> <p>Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.</p>
1.	Document Control Server Allowance (\$10,000)
2.	Additional Intumescent Painting (\$30,000)
3.	Schedule Maintenance OT Allowance (\$50,000)
4.	Exterior Bollard Sleeve Allowance (\$20,000) Addendum 02

F.	SCHEDULE
	<p>Schedule information is included within the bid manual (<b>Attachment G</b>) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.</p> <p><b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b></p> <p>It is <b>absolutely critical</b> that the work of this contract be completed by the dates defined. The intention is that the Subcontractor must provide sufficient labor, equipment, overtime, supervision, etc. to overcome weather delays.</p>

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G.	ALTERNATES
	The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.
Alt. 1	<b>Fourth Floor Build Out</b>
Alt. 2	<b>Autoclaves</b>
Alt. 3	<b>Greenhouse Tables and Shelving</b>
Alt. 4	<b>Roller Window Shades in Rooms A0100 and A0102</b>
Alt. 5	<b>Greenhouse Card Readers</b>
Alt. 6	<b>Biological Safety Cabinets</b>







