



Addendum B

Project Name: **RANKEN TECHNICAL COLLEGE
MANUFACTURING INC.**

Project Number: **18-1260.00**
Date Issued: **July 16, 2018**

General notes;

1. Revised bid form is included in this addendum because of changes per RFI responses.
2. Ranken currently uses an Alerton Energy Management system, it is desired that this facility will also be on this system.
3. Bird deterrent system has changed in entirety, complete new specification section is attached at the end of this memo. Note that (2) of the systems are to be provided, each system is (1) head-in unit and (4) speakers. Project required (2) head-in units and (8) speakers.

RFI's and Responses;

1. Question - How many strands of fiber are they wanting 6 or 12?
 - a. Response – 12 strands
2. Question - 62.5mm is multimode fiber not, single mode, can you clarify. Also confirm they want (1) 12 strand fiber in each conduit.
 - a. Response – Please bid this as the single mode fiber. Contractor is to provide (2) 2" PVC conduits. Install fiber in (1) of the conduits and the second conduit to have pull rope.
3. Question - Do they have a manufacture of the equipment they want to use for the termination of the fiber.
 - a. Response – Any good quality brand
4. Question - What type of connectors do they want it terminated on.
 - a. Response – ST
5. Question - Are they any specs at all on the voice and data shown on plan E-101?
 - a. Response – No, client will be installing all their own.
6. Question - What brand HVAC equipment is acceptable?
 - a. Response – Trane, AAON or York. Equipment dimensions and layout must work with space parameters. Inside clear area of both mechanical areas is 22'-8" x 29'-4".

7. Question – On A-402 Pad mounted units are shown. What brand was used for this configuration shown?
 - a. Response – Basis of design is Trane.
8. Question – What Temperature control BAS system is acceptable?
 - a. Response – Ranken currently uses an Alerton Energy Management system, it is desired that this facility will also be on this system.
9. Question – The drawings show a 1” non-perforated border on the .19” anodized plate which will be very expensive and require a custom setup and individual punching. Is a “U” shaped fit-over trim over standard panels sheared to the correct size an acceptable alternate?
 - a. Response – Please bid the project as designed but provide a voluntary alt. deduct to utilize the “U” shaped fit-over trim over standard panels sheared to the correct size.
10. Question – How many people are we to assume in each work cell?
 - a. Response – Please plan for 18 occupants in each work cell.
11. Question – What activity is being performed in the work cells so that we may account for the appropriate amount of miscellaneous load?
 - a. Response – Light manufacturing, product assembly, electronic device programming assembly, general office computer work/programming.
12. Question – On Sheet A-201, not all partitions are identified with a partition type. Please identify where this information is on the drawings or provide this information.
 - a. Response –Please refer to the sheet A-201 issued as part of Addendum A, we noticed that the partition type tags did not print on the initial bid set sheet.
13. Question – What U-values are to be used for the building walls and roof?
 - a. Response – Insulation for the metal building portion is to be as follows; Metal Roof Panel Assemblies: R-Value: R-13 + R-13 with R-5 thermal blocks at purlins, Metal Wall Panel Assemblies: R-Value: 19.
14. Question – What are the window U-value and Shading coefficients?
 - a. Response –The GL-1 properties are as follows; Visible Light Transmittance: 70 percent minimum, Visible Light Reflectance: 11% exterior, Visible Light Reflectance: 12% interior, Winter Nighttime U-Factor: 0.29 maximum, air, Winter Nighttime U-Factor: 0.24 maximum, argon, Solar Heat Gain Coefficient: 0.39 maximum and Light to Solar Gain: 1.79.
15. Question –How are bidders to make Acknowledgement of Davis-Bacon Wage Rates will a form be provided?
 - a. Response – A line will be added to the bid form after addendum to indicate acknowledgement of the Davis-Bacon Wage Rates that are included in the specifications.
16. Question – How are bidders to exhibit Affidavit of OSHA Training, will an affidavit be provided?
 - a. Response – Bidding GC to provide document exhibiting affidavit of OSHA training.

17. Question – How are bidders to exhibit Contractor’s Affidavit Regarding Settlement of Claims, will a specific affidavit be provided or will a GC provided form be accepted?
- a. Response – GC provided form will be accepted.
18. Question –Spec section 033601 summary section indicates that this is polished concrete. However, the description section calls for an epoxy floor coating and the products section calls for Tnemec Series 237 epoxy decorative quartz floor. Can you please clarify if this is to be polished concrete or decorative quartz epoxy flooring?
- a. Response –This is to be an epoxy finish, specification section to be revised to correct the issue to the description.

Specification Changes;

Specification Section-033601 Special Concrete Floor Finishes (Conc-2)

- Part 1.3 Description A; Change to the following; Multi-purpose epoxy coating that can be used as a primer, broadcast, slurry/broadcast, mortar, grout coat, and topcoat.
- Part 1.11, B changed to the following; Materials shall be stored indoors, protected from damage, moisture, direct sunlight and temperatures below 40 degrees F. or above 90 degrees F.
- Part 1.12,A, changed to the following; Surface and surrounding air temperatures must exceed 55 degrees F. but must be less than 90 degrees F., with materials at not less than 70 degrees F. during application.
- Part 2 Products, 2.1, changed in entirety to:
 - A. Base Coat: Series 237 Power-Tread consisting of a two component polyamine cured epoxy liquid and a broadcast aggregate applied by double broadcast to provide a minimum 1/8”thickness.
 - B. Intermediate(grout): Series 237 Power-Tread-pigmented consisting of a two component polyamine cured epoxy liquid.
 - C. Finish: Series 248 Everthane, a three component aliphatic moisture cured urethane.
- Add Part 2.2 Manufacturer
 - A. Tnemec Company, Incorporated
- Part 3 Execution changed in entirety to:
- 3.1 Preparation
 - A. Allow new concrete to cure for 28 days. Verify dryness by testing for moisture with a "plastic film tape-down test". (Reference ASTM D 4263). Should moisture be detected, perform "Standard Test Method for Measuring Moisture Vapor Emmission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride." (Reference ASTM F 1869) Moisture content not to exceed three pounds per 1,000 sq.ft. in a 24 hour period.
 - B. Mechanically abrade all concrete by means of self-contained, blasting equipment or equal, to remove all laitance and surface contaminants and provide a minimum profile similar to 40-60 grit sandpaper. (Reference ASTM D 4259, ICRI CSP 4-7)
 - C. After mechanically abrading, verify that all surfaces are clean, dry and free of any contaminants, which could adversely affect the adhesion of the flooring system.
- 3.2 Installation
 - A. Base Coat: The material shall be mixed in accordance with manufacturer’s printed instructions and applied uniformly at a film thickness of approximately 20 mils DFT. The clean dry 30/50 mesh aggregate is then broadcast into the wet liquids until a uniformly dry appearance is obtained to form a minimum of 1/16” thickness. Repeat this procedure to achieve a minimum 1/8” thickness.

- B. Intermediate (grout): The material shall be mixed in accordance with manufacturer's printed instructions and applied uniformly at a film thickness of approximately 15-20 mils DFT. It should be top coated after 8 hours and within 24 hours.
- C. Finish: The finish shall be mechanically mixed and applied in accordance With manufacturer's printed instructions and applied uniformly at a film thickness of 2 to 3 dry mils.
- 3.3 Job Standard
 - A. Prior to commencing the installation, the contractor shall install with the owner's approval, a mutually agreed upon test sample to show final color and appearance of the system. This test area shall serve as a job standard for the final installation.
- 3.4 Cleanup
 - A. Remove waste materials, rubbish, and debris and dispose of them at the owner's direction. Leave work areas in a clean condition.
- 3.5 Protection
 - A. Protect the completed work from water, airborne particles or other surface contaminants until cured for a minimum of 24 hours after application.
 - B. Protect from traffic, physical abuse, immersion and chemical exposure until the complete system has thoroughly cured for 24 hours at 75 degrees F. For different temperatures, consult the manufacturer's representative about curing times.

Specification Section-072100 Thermal Insulation

- Part 2.1, A,1 Add e. Carlisle Coatings & Waterproofing, R2+ SILVER Foil-Faced Polyiso Insulation

Specification Section-072727 Water-Resistive Vapor Permeable Air Barriers

- Part 2.1,A,1 Revise b. to the following; Carlisle Coatings & Waterproofing, Fire Resist 705 VP

Specification Section- 102226 Operable Partitions

- Part 2.2, A, 1 Add e. Moderco as an acceptable manufacturer.

Specification Section-102960 Electric Bird Deterrent System

- Product selection has changed. As a result this section is being updated as part of this addendum in its entirety. Refer to specification section at the end of this memo.

The Sheets with Drawing Changes are as Follows;

Civil - None

Landscape - None

Architectural - None

Structural - None

END OF ADDENDUM B

RANKEN TECHNICAL COLLEGE

RANKEN MANUFACTURING BUILDING

BID FORM

PROJECT IDENTIFICATION:

This project includes:

- 1.) The bidding for one (1) manufacturing building as listed below:

4301 Finney Avenue, St. Louis MO, 63113.

THIS BID IS SUBMITTED TO:

RANKEN TECHNICAL COLLEGE
ATTN: DAVE CADLE
SUBJECT; IFB #2018-563
(CONSTRUCTION OF BLDG. AT 4301 FINNEY)
4431 FINNEY AVE.
ST. LOUIS, MO 63113
dcadle@ranken.edu

1. The undersigned BIDDER proposes and agrees, if the Bid is accepted, to enter into an agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Bid Price and within the Bid Times indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.

2. BIDDER accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for sixty days after the day of Bid opening. BIDDER will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within fifteen days after the date of COLLEGE'S notice of Award.

3. In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that:

(a) BIDDER has examined and carefully studied the Bidding Documents and the following:

Addenda, receipt of all which is hereby acknowledged: (List Addenda by Addendum Number and Date)

(b) BIDDER has reviewed the Davis-Bacon Wage Rates outlined in the specifications and makes acknowledgment as follow;

Signature_____Date;_____

(c) BIDDER has visited the site and become familiar with and is satisfied as to the general, local and site conditions that may affect cost, progress, performance and furnishing of the Work;

(d) BIDDER is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, performance and furnishing of the Work.

(e) BIDDER has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except Underground Facilities) which have been identified. BIDDER acknowledges that such reports and drawings are not Contract Documents and may not be complete for BIDDER'S purposes. BIDDER acknowledges that COLLEGE and Owner's Representative do not assume responsibility for accuracy or completeness of information and data shown or indicated in the Bidding Documents with respect to Underground Facilities at or contiguous to the site. BIDDER has obtained and carefully studied (or assumes responsibility for having done so) all such additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the site or otherwise which may affect cost progress, performance or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences and procedures of construction to be employed by BIDDER and safety precautions and programs incident thereto. BIDDER does not consider that any additional examinations, investigations, explorations, tests, studies or data are necessary for the determination of this Bid for performance and furnishing of the Work in accordance with the times, price and other terms and conditions of the Contract Documents.

(f) BIDDER is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Contract Documents.

(g) BIDDER has correlated the information known to BIDDER, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents and all additional examinations, investigations, explorations, tests, studies and data with the Contract Documents.

(h) BIDDER has given OWNER'S REPRESENTATIVE written notice of all conflicts, errors, ambiguities or discrepancies that BIDDER has discovered in the Contract Documents and the written resolution thereof by OWNER'S REPRESENTATIVE is acceptable to BIDDER, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.

Any questions, comments, or concerns regarding the design of this project should be addressed via E-mail to Steve Hoover, Project Architect JEMA shoover@jemastl.com

(i) This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group association, organization or corporation; BIDDER has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; BIDDER has not solicited or induced any person, firm or corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for itself any advantage over any other Bidder or over OWNER.

(j) Pursuant to 285.530 RSMo, the bidder must affirm its enrollment and participation in a federal work authorization program with respect to the employees proposed to work in connection with the services requested herein by

- submitting a completed, notarized copy of **AFFIDAVIT OF WORK AUTHORIZATION** and
- providing documentation affirming the bidder's enrollment and participation in a federal work authorization program with respect to the employees proposed to work in connection with the services requested herein.
- <http://www.uscis.gov/portal/site/uscis>
- EDA Requirements as provided within the specifications manual.

(k) Bidders are informed that the Project is subject to the requirements of Section 292.675, R.S. Mo, which requires all contractors or subcontractors doing work on the Project to provide, and require its on-site employees to complete, a ten (10) hour course in construction safety and health approved by the Occupational Safety and Health Administration ("OSHA") or similar program approved by the Missouri Department of Labor and Industrial Relations which is at least as stringent as an approved OSHA program. The training must be completed within sixty (60) days of the date work on the Project commences. On-site employees found on the worksite without documentation of the required training shall have twenty (20) days to produce such documentation.

4. BIDDER will complete the Work in accordance with the Contract Documents for the following price(s):

4.1 RANKEN MANUFACTURING INC. BUILDING:

Contract Price Total Project: _____

_____(\$ _____)

We hereby agree to substantially complete the Total Project by February 1, 2019 as indicated in the AIA A101 contract.

(Total bid amount is to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern. In case of error in extension, the lump sum prices under each Pay Item will be.

4.2 Alternates:

Alternate Number 1– Omit CONC-1 and install CPT-1 in Rooms 112, 113, 114 & 115 as called out on Sheet A-501 of the Contract Documents.

Add or Deduct _____(\$ _____)

Alternate Number 2– Omit work cell offices, rooms 122, 124, 126, 128, 130 & 132.

Add or Deduct _____(\$ _____)

Alternate Number 3– Omit operable partition in the classrooms

Add or Deduct _____(\$ _____)

Alternate Number 4– Omit operable partition in the work cells

Add or Deduct _____(\$ _____)

4.3 Unit Prices:

Unit Price 1: Unit Price 1: Removal of unsatisfactory soil and replacement with satisfactory soil material.

Per Cubic Yard _____ (\$ _____)

6. The following documents are attached to and made a condition of this Bid:

- (a) Acknowledgement of any addenda issued.
- (b) Acknowledgement of Davis-Bacon Wage Rates.
- (c) Exhibit Affidavit of OSHA Training
- (d) Exhibit Contractor's Affidavit Regarding Settlement of Claims.

7. Bidder agrees to submit the following documents within three (3) business days after the opening of Bids if requested:

- (a) BIDDER'S Qualification Statement with supporting data.

8. Communications concerning this Bid shall be addressed to:

Name _____

Address _____

(a) Performance and Payment Bonding Company

Name _____

Address _____

Agent\Power of Attorney Name (if used) _____

Address _____

9. Terms used in the Bid which are defined in the General conditions or Instructions will have the meanings indicated in the General Conditions or Instructions.

SUBMITTED on _____, 20__.

State Contractor License No. _____

IF BIDDER is:

An Individual

By _____(SEAL)

(Individual's Name)

doing business as _____

Business address: _____

Phone No.: _____

A Partnership

By _____(SEAL)

(Firm Name)

(General Partner)

Business address: _____

Phone No.: _____

A Corporation

By _____(SEAL)

(Corporation Name)

(State of Incorporation)

By _____(SEAL)

(Name of Person Authorized to Sign)

(Title)

(Corporate Seal)

Attest _____

(Secretary)

Business address: _____

Phone No.: _____

Date of Qualification to do business is _____

A Joint Venture

By _____(SEAL)
(Name)

(Address)

By _____(SEAL)
(Name)

(Address)

Phone Number and Address for receipt of official communications:

(Each joint venturer must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

SECTION 102960 – ELECTRIC BIRD DETERRENT SYSTEM

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:
 - 1. Ultrasonic bird deterrent head-in unit with AC plug-in
 - 2. Remote speaker unit.
 - 3. Speaker wire for runs from head in unit to remote speakers.
 - 4. Bird deterrent gel.

1.3 DESCRIPTION

- A. Install head-in unit in location accessible by staff without the use of ladder. Location to be in Northwest corner of entry area and be coordinated with Architect. Install speaker units high up within the entry canopy, locations to be coordinated with Architect. Speaker wires to be run from head-in unit to speakers such that the wires are not visible from the normal traffic flow to and from the building. Install bird deterrent gel on exposed top surface of the tube steel framing where birds land, loaf, roost or nest.

1.4 COORDINATION

- A. Coordinate location of head-in unit with Architect.
- A. Coordinate location of speakers with Architect.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product, including catalog cuts, shop sketches and other descriptive material.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and manufacturer.

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For ultrasonic bird deterrent system to include in maintenance manuals.

1.8 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- B. Obtain technical literature from manufacturer or distributor, telephone consultation and plan/photograph evaluation.
- C. Utilize labor recommended by manufacturer for especially challenging applications.

1.9 FIELD CONDITIONS

- A. Verify locations of units, speakers and placement of gel with Architect.

1.10 PRODUCT HANDLING

- A. Protect ultrasonic head-in unit and speakers from damage before, during and after installation.
- B. If damage occurs to ultrasonic head-in unit and speakers, make all replacements immediately.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated, Ultrason X 4-speaker Bird Deterrent System by Bird-X, Inc., 300 N. Oakley Blvd. Chicago, IL 60612 Phone: 800-662-5021, Fax: 312-226-2473; or comparable product by one of the following:

1. Bird-B-Gone.
2. Bird-X, Inc.
3. Nixalite of America Inc.
4. Shock-Tape, Inc.

- B. Model Designation:

1. 110 VAC powered chargers.
2. Speakers: 8 ohms, 75 watts
3. Sound pressure: 95-102 dB (each speaker) at 1 meter
4. Frequency: 15-25 kHz
5. Coverage: 3600 square feet
- 6.

- C. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated,
 - 1. Bird Proof Gel by Bird-X, Inc., 300 N. Oakley Blvd. Chicago, IL 60612 Phone: 800-662-5021, Fax: 312-226-2473; or comparable product

2.2 MATERIALS

- A. 110 VAC Plug-in control unit – All UL Approved.
 - 1. Quantity: 2
 - 2. 9” x 9” x 5”
- B. Speakers:
 - 1. Quantity: 8
 - 2. 8 ohms, 75 watts
 - 3. Sound pressure: 95-102 dB (each speaker) at 1 meter
 - 4. Frequency: 15-25 kHz
 - 5. Coverage: 3600 square feet
- C. Bird Proof Gel:
 - 1. Net weight: 10oz (283g) per tube (each tube will cover 10 linear feet)

2.3 MOUNTING SYSTEMS

- A. Steel: Adhesive or mechanical fastening with the appropriate hardware.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of ultrasonic bird deterrent system work.
- B. Verify that electrical service is correctly sized and located to accommodate ultrasonic bird deterrent system.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 SURFACE PREPARATION

- A. For the application of the bird proof gel surfaces shall be clean, dry and free of peeling paint, rust, bird droppings or other debris. Bird droppings must be removed in a safe manner; large quantities should be removed and disposed of by reputable waste removal companies.

3.3 INSTALLATION

- A. Install the Ultrasonic unit and speaker System as recommended in the installation instructions, which are supplied by the manufacturer. Location of (2) head-in units to be in Northwest corner of entry area and be coordinated with Architect. Location of (8) speakers to be installed as recommend location and spacing by the manufacturer and be coordinated with Architect.
- B. Install the bird proof gel per the manufacturers recommendations. All exposed horizontal tube steel framing at the open entry up to and including 10'-0" above grade to receive continuous bead of bird proof gel.

3.4 INSPECTION

- A. Visually inspect the Ultrasonic bird deterrent system connections, remove debris and resolve other problems related to poor installation or surface preparation.
- B. Repair as necessary immediately.

3.5 OM-OPERATION, MAINTENANCE

- A. Once installed and adjusted the Ultrasonic system should require little to no maintenance.
- B. Re application of the Bird Proof Gel will need to take place on a yearly basis or sooner should it appear to no longer be effective.

3.6 ADJUSTING

- A. Remove and replace damaged or deformed Ultrasonic bird deterrent system that do not comply with specified requirements.

END OF SECTION 101426