

ITB# 039-26
Paycor Stadium South Scoreboard Expansion
Bid Package 4: Arch, HVAC & Plumbing
Addendum 1

May 29, 2026

To All Registered Vendors:

Engineer's Estimate

TC09 Miscellaneous Metals	\$339,865 + \$0.00 Allowance =	\$339,865
TC10 General Trades	\$2,020,816 + \$150,000 Allowance =	\$2,170,816
Totals	\$2,360,681 + \$150,000 Allowance =	\$2,510,681

Attachments

1. Pre-Bid Meeting Attendees
2. Pre-Bid Meeting Agenda
3. XBE Pre-Bid Meeting Vendor Information

Specifications – Add the following

- | | |
|----------|--|
| 00 10 00 | Bid Form – revised Combination Bid Allowance from \$165,000 to \$150,000 |
| 01 11 00 | Summary of Work – see revisions and additions in red font . |
| 07 21 00 | Insulation |

Drawings

Drawings A100, A101, A102, A103, A111, A112, A113, A201, A202, A203, A301

(Drawings Not Reissued):

- a. Revise existing conditions keynote X1 to read: “Existing box column. Coordinate extents of existing column to remain with demolition and structural drawings. Re-paint existing column after completion of structural modifications. Refer to specification section 09 91 00.”

Sincerely,

Jill Williams

Jill Williams
Purchasing Director



Pre-Bid Conference Sign-in Sheet

ITB #- 039-26

ITB Name- Paycor Stadium South Scoreboard Expansion BP#4 Architectural, HVAC and Plumbing

Date: 05-27-2026

VENDOR NAME	CONTACT NAME	PHONE	EMAIL
Messer Construction Co	Matt Poland	513-678-0312	mpoland@messer.com
"	Kyle Buchhalter	937-903-3142	kbuchhalter@messer.com
Universal Contracting	Ben Vogelgesang	513-482-2700	bvogelgesang@universal1957.com
Robert Bell	~	513-946-4424	RobtBell@hamiltoncount.gov
Davies Engineering Group	Colin Moormann	513-490-1881	cmoormann@davieseg.com
Brian Rizzo Brothers	Brian Munn	859-3913626	bmunn@rizzobrothers.com
Hamilton County	Jim Munn		
KZF	COREY MAI	513-218-8150	corey_mai@kzf.com
THP	LINETTE STINEMETZ	513 241 3222	lstinemetz@thphtd.com
James Johnson			
Johnson Controls	James Johnson	513-520-1253	James.J.Johnson@JCI.com
DBSL	John Pope		

AGENDA FOR PRE-BID ON 5-27-26 AT 10:00 AM
ITB# 039-26 – Paycor Stadium South Scoreboard Expansion BP#4 Architectural, HVAC
and Plumbing Project

LOCATION: Corner of Mehring Way and Central Avenue, Cincinnati, Ohio 45202

1. Introduction - Kyle

- a. Project
- b. Owner

2. The Bid Process - Kyle

- a. Key Dates
Questions **5/29/2026 12:00 PM**
Answers **6/3/2026 11:00 AM**
Bid Opening Date **6/4/2026 11:00 AM**
- b. Addendums

3. Bid Documents – Kyle

- a. Location
- b. Scope Review
- c. Estimated Budget **\$2,470,486**
- d. Trade Contracts
- e. OCIP Program
- f. **Sealed proposals will be received at the Hamilton County Purchasing Department, Room 507, 138 East Court Street, Cincinnati, Ohio 45202, until 11:00 AM on the date listed above and will be read at that time. Bid opening will be held in Conference Room.**

4. Economic Inclusion and Workforce Development – Robert Bell, Hamilton County

- a. SBE Goal - 20%
- b. MBE Goal – 16.5%
- c. WBE Goal – 4.2%
- d. Economic Inclusion
- e. Workforce Development
- f. Building Opportunities by Leveraging Diversity (BOLD)
- g. **Tailored mailings to MBE/WBE/SBE firms notify them of contracting opportunities at least two (2) weeks before bids or proposals are due providing documentation of contact.** All MBE/WBE/SBE documents must be submitted with proposals, see Hamilton County Minority, Women, and Small Business Enterprise Programs.

5. Questions and Answers – Kyle



MBE/WBE/SBE Policies and Procedures Pre-Bid Meeting Overview

Solicitation:

Date:

Time:

Location:

Hamilton County
Economic &
Community Support

- Hamilton County has small, minority, and women-owned business participation goals for all solicitations.

The goals for this project are _____% MBE, _____% WBE, and _____%SBE participation. These goals can be found on page _____ of the solicitation package.

- There are required forms for respondents to complete in the MBE/WBE/SBE policy section of each proposal, including the *Goal Compliance Plan*, the *Application for Program Waiver* (if respondents are unable to meet the project goals), and the *Letter of Intent* (LOI) between the prime contractor and any subcontractor included in the *Goal Compliance Plan*. These forms must be provided when you submit your proposals for your proposal to be deemed responsive.
 - For projects under \$1 million, signed, and notarized LOIs between Bidder and all subcontractors/supplies must be included in their Goal Compliance Plan at the time of submission. For larger projects above \$1 million, bidders must submit a completed LOI for all MBE/WBE/SBE subcontractors/suppliers listed in the Goal Compliance Plan at the time of submission. The LOI for all other subcontractors can be submitted after the time of submission, but before the contract is awarded.
- These participation goals can be achieved by any company doing work for the project that is MBE, WBE, or SBE certified by a third-party certifying agency.
- If you are not able to meet the participation goals, you must submit the *Application for Program Waiver* in addition to the *Goal Compliance Plan* to demonstrate adequate good faith efforts in engaging small, minority, or women-owned companies.
- If you plan to perform 100% of the work yourself, you must submit the *Goal Compliance Plan* and indicate this in the self-performance section in addition to submitting an *Application for Program Waiver*.
- Preference is not given to proposals based on their ability to meet the project goals or their choice to use the Application for Program Waiver. The Goal Compliance Plan and the Application for Program Waiver are evaluated for responsiveness only. For RFPs, points will not be deducted for filling out the Application for Program Waiver.
- An example of how to complete the inclusion forms can be found here: [Sample of Solicitations Inclusion Form](#) , or by visiting our website at [Economic & Community Support - Hamilton County, OH](#) and clicking on the “Sample Solicitation Insert” tab on the left side of the Home Page.

BID FORM

ACKNOWLEDGMENT OF BIDDER:

Submitted by: _____
(enter company name here)

TO: The Board of County Commissioners, Hamilton County, Ohio
 Hamilton County Purchasing Department
 138 East Court Street, Room 507
 Cincinnati, Ohio 45202

We, the undersigned, having visited the site, carefully studied the local conditions affecting the cost of the work, and having thoroughly examined the Bidding Documents, consisting of the Instructions to Bidders, this Proposal Form, Bonding Requirements, Minority, Women, and Small Business Enterprise Program, Contract Form, General Conditions, Technical Specifications, Drawings, and Addenda for the Project titled:

Paycor Stadium South Scoreboard Bid Package 4
ITB#039-26
TC-09 Miscellaneous Metals and
TC-10 General Trades

prepared by KZF, 700 Broadway, Cincinnati, Ohio 45202, for the Board of County Commissioners, Hamilton County, Ohio, do hereby propose to perform all work required to be performed, and to provide and furnish equipment, transportation services, and temporary installations necessary to perform and complete, in a workmanlike manner, such items of work hereinafter designated by and for the sum of money set forth for said items.

ACKNOWLEDGMENT OF ADDENDA:

The undersigned acknowledges receipt of the following Addenda to the Contract documents (indicate Addendum Number and Issue Date):

Addendum No. _____ Date: _____ Page(s): _____

Addendum No. _____ Date: _____ Page(s): _____

Addendum No. _____ Date: _____ Page(s): _____

Addendum No. _____ Date: _____ Page(s): _____

Addendum No. _____ Date: _____ Page(s): _____

A. BIDDER AGREEMENTS:

The undersigned Bidder Agrees:

1. To accept the provisions of these Instruction to Bidders, Supplementary Instructions to Bidders, General Conditions, and Division 1 of the Specifications.
2. To provide and include a Bid Guaranty and Contract Bond as dictated in the Legal Advertisement.
3. To accept the provisions and provide all required documents contained within the Minority, Women, and Small Business Enterprise Program.
4. That the amounts stated in this Proposal Form represents the entire cost of the work. The completion time stated represents the entire time for performance of the work. The amount bid includes allowances for all fees for permits, taxes and insurance required or applicable to the work. That no claims will be made for any increases in wage scales or material costs.
5. To certify that this bid is genuine not sham or collusive or made in the interest or in behalf of any person not herein named, and that the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid, or any other person, firm or corporation to refrain from bidding and that the undersigned bidder has not in any manner sought by collusion to secure for himself and advantage over any other bidder.
6. And certifies that (we) (he) (they) (has) (have not) previously performed work subject to the President's Executive Order No. 11246.
7. That this bidder will comply with all City, State, and Federal Statutes relating to Liability Insurance, Working Hours, Minimum Wages, Safety and Sanitary Regulations, which in any way may affect those engaged or employed on the work in the event that the award of the Contract is made on the Proposal hereinsubmitted.
8. That the bidder will comply with any new laws or acts regulating public buying procedures.
9. Refer to additional instructions for bidder registration process (See Registration Form within the Legal Advertisement Packet).

BID FORM STIPULATIONS:

1. The wording of this proposal shall be used throughout, without damage, alteration or addition. Any change in wording may cause it to be rejected.
2. Include all required forms.
3. Bid amounts shall be provided in both words and figures. The worded amount shall govern in the case of discrepancies or in cases of error in extending the total amount of the bid, the unit price may govern.
4. In the event that qualified bidders submit equal bids (to the penny) and are deemed the lowest and best bidders for that trade's bid, those bidders agree to let the County award the contract to the bidder selected by the current "tied bid" procedures used by the Hamilton County Purchasing Department.
5. A Base Bid must be submitted prior to bidding Alternates Bid unless noted otherwise in the Bid Form.

6. The Board of County Commissioners reserves the right to reject any or all bids and, unless otherwise specified by the bidder, to accept any item in the bid.

C. ALLOWANCES:

The County may after the bids are opened add an allowance to the contract at its own discretion. This allowance shall be added to the contract and so denoted in the contract in section 4.3. Any allowances added by the County shall be for incidentals associated with this project. If unused, during the project all allowance monies shall be returned to the County at the end of the project or at the County's request.

A. General:

1. Work related to cash allowances will be performed on a time and material basis. The Contractor shall furnish and certify daily detail records of all labor and materials provided.
2. If the cost to complete the work is less than the cash allowance, a deduct Change Order will be prepared by the County for the cost difference.

B. Cash Allowance Items:

1. Trade Contract TC-09 Miscellaneous Metals No.1: \$0
2. Trade Contract TC-10 General Trades No.2: \$150,000

D. Trade Contract AWARDING:

The selection process includes but is not limited to:

1. The rules and laws set forth in the Ohio Revised Code for Public Bids.
2. The bidder submitting the Lowest and Best Bid per Ohio Revised Code.
3. The lowest accepted Base Bid and "Accepted" Alternate combination.
4. The bidder best meeting all required specifications.
5. Review of the required forms submitted by the Bidder at the time of the Bid Opening in compliance with the Minority, Women, and Small Business Program.
6. Substitutions not approved prior to the bid opening cannot be used in the determination of the Lowest and Best Bid Determination.
7. Substitutions will not be used in determining Lowest and Best Bids.
8. If Hamilton County and the bidder are unable to successfully come to terms regarding the bid and subsequent contract, Hamilton County reserves the right to terminate contract discussions with the bidder(s) and select the next apparent low bidder.

Hamilton County reserves the right to:

1. Reject any or all bids.
2. Waive any informality in the bids.
3. Eliminate conditions or terms that are not in the best interest of Hamilton County and its residents.

E. ADDITIONAL BID REQUIREMENTS:

Bidder shall review the Legal Advertisement for project timeline, pre-bid meeting information, bidding registrations, and addendum notifications.

Bidder shall review the Summary of Work for work hours, length of project, permitting requirements, contractor and sub assignments, and prime contract arrangements (single vs multiple contracts).

Bidder shall assume that No Asbestos removal or remediation is required on this project. Any contractor suspecting asbestos shall stop work immediately and report suspicious areas to the Owner. The owner shall be responsible for removing any asbestos discovered or targeted for removal in this project.

F. BID PROPOSALS:

Bidder's Name: _____

Each bidder is required to fill out all entries in the proposal section. Enter "NO BID" where no bid will be entered for this proposal.

BASE BID **TC-09 Miscellaneous Metals**
(Includes \$0 Cash Allowance)

TOTAL COST (LUMP SUM): _____ (in numbers)

_____ (in words)
the worded amount shall govern

For reference only provide a breakdown of the total prices listed in the Base Bid. This breakdown is solely a reference tool to be used by the County and shall not enter into the determination of the winning bidder for this project. The summation of the lines below should equal your total price listed above.

General Contractor Material: \$ _____ (in numbers)

General Contractor Labor: \$ _____ (in numbers)

Mechanical Material: \$ _____ (in numbers)

Mechanical Labor: \$ _____ (in numbers)

Electrical Material: \$ _____ (in numbers)

Electrical Labor: \$ _____ (in numbers)

Project Management: \$ _____ (in numbers)

Allowance: \$ _____ (in numbers)

The summation of these lines should equal the Total Cost above.

Base Bid

TC-10 General Trades

(Includes \$150,000 Cash Allowance)

TOTAL COST (LUMP SUM): _____ *(in numbers)*

_____ *(in words)*

the worded amount shall govern

For reference only provide a breakdown of the total prices listed in the Base Bid. This breakdown is solely a reference tool to be used by the County and shall not enter into the determination of the winning bidder for this project. The summation of the lines below should equal your total price listed above.

- General Contractor Material: \$ _____ *(in numbers)*
- General Contractor Labor: \$ _____ *(in numbers)*
- Mechanical Material: \$ _____ *(in numbers)*
- Mechanical Labor: \$ _____ *(in numbers)*
- Electrical Material: \$ _____ *(in numbers)*
- Electrical Labor: \$ _____ *(in numbers)*
- Project Management: \$ _____ *(in numbers)*
- Allowance: \$ _____ *(in numbers)*

The summation of these lines should equal the Total Cost above.

Combination Bid TC-09 Misc Metals & TC-10 General Trades

(Includes \$150,000 Cash Allowance)

TOTAL COST (LUMP SUM): _____ *(in numbers)*

_____ *(in words)*

the worded amount shall govern

For reference only provide a breakdown of the total prices listed in the Combination Bid. This breakdown is solely a reference tool to be used by the County and shall not enter into the determination of the winning bidder for this project. The summation of the lines below should equal your total price listed above.

- General Contractor Material: \$ _____ *(in numbers)*
- General Contractor Labor: \$ _____ *(in numbers)*
- Mechanical Material: \$ _____ *(in numbers)*
- Mechanical Labor: \$ _____ *(in numbers)*
- Electrical Material: \$ _____ *(in numbers)*
- Electrical Labor: \$ _____ *(in numbers)*
- Project Management: \$ _____ *(in numbers)*
- Allowance: \$ _____ *(in numbers)*

The summation of these lines should equal the Total Cost above.

G. ALTERNATES: if accepted

1. TC10 Provide HVAC System shown on 3/H201 Add \$ _____

H. Unit Prices

I. SUBSTITUTIONS – No substitutions

Bidder's Name: _____

All Prime Contractors hereby acknowledge and accept all responsibilities assigned to them by the General Conditions, Minority, Women, and Small Business Program, and Division One of the Specifications. All fees for supervision and coordination are included in the bids.

Bids submitted by virtue of this Proposal hereby are acknowledged by the Owner to be made under the conditions that the Bidder will not be prevented, on account of strikes or other disruptions affecting source of supply, from obtaining materials necessary to carry out his contract to complete the construction covered thereby.

It is understood and agreed by the undersigned that the Owner reserves the right to reject any and all bids.

It is agreed that this Proposal shall be irrevocable for a period of Sixty (60) days after receipt of same by the Owner at the Day and Place set forth in the "Legal Advertisement".

We have read and agree to the terms listed above.
(check here)

Firm Name: _____

Corporation Partnership Sole Proprietorship *(check one)*

Authorized Offerror *(print name)*: _____

Authorized Signature *(sign name)*: _____

Title: _____

Official Address: _____

E-mail Address: _____

Telephone Number:

SECTION 011100
SUMMARY OF WORK

PART 1 GENERAL

1.1 GENERAL PROVISIONS OF BID PACKAGE #4 TRADE CONTRACTS

The following summary is a description of work for all Contract Descriptions for the **Paycor Stadium South Scoreboard Expansion**. Work related to the Project is as indicated on the Drawings and Specifications as prepared by KZF. This section describes and assigns work to each Trade Contract as designated by the Construction Manager. Each Trade Contractor shall cooperate and coordinate with all other Trade Contractors for proper and expedient completion of the work in this Project. Each Trade Contract Description identifies the major portions of Scope of Work to be performed by the Bidder in specific Contract Descriptions. This summary should in no way be construed as being all-inclusive. It is issued as a guide to aid in the assignment of work. Refer to the Drawings and Specifications for a detailed accounting of any work not explicitly specified or noted. Each Trade Contract Description lists specification sections included, in whole or in part, in that Trade Contract Description. All work activities not explicitly specified / noted but are required to complete the work included in a Trade Contract Description, are a part of the work scope.

PART 2 TRADE CONTRACT DESCRIPTIONS

2.1 SECTION INCLUDES:

- A. List of Trade Contracts
- B. General Provisions of Bid Package #4 Trade Contracts
- C. Contract Descriptions

2.2 LIST OF TRADE CONTRACTS

- A. List of Bid Package #4 Trade Contracts:

TC09 Miscellaneous Metals
TC10 General Trades

2.B GENERAL PROVISIONS OF BID PACKAGE #4 TRADE CONTRACTS

1. Each Trade Contractor shall be responsible for the proper protection of adjacent structures and public rights of way.
2. All work is to comply with the rules and regulations of governing authorities having jurisdiction. Work shall be performed by skilled tradesmen having experience in performing the work.
3. Storage of all materials is limited and must be approved by the Construction Manager. Offsite storage of material may be required. All costs associated with material delivery in small quantities, relocation of materials that impede work progress, and off-site material storage must be included in the bid.
4. A 48-HOUR NOTICE MUST BE GIVEN FOR DELIVERIES. IF NOTICE WAS NOT GIVEN DELIVERIES MAY BE TURNED AWAY. ALL COST ASSOCIATED WITH THIS ACTION WILL BE THE RESPONSIBILITY OF THE TRADE CONTRACTOR. ALL DELIVERIES MUST BE COORDINATED & APPROVED BY THE CONSTRUCTION MANAGER. NO PARKING BY EMPLOYEES OR DELIVERY VEHICLES IS PERMITTED ON SITE. STORAGE, TOOL OR OFFICE TRAILERS WILL NOT BE PERMITTED ON SITE WITHOUT THE PRIOR APPROVAL OF, AND IN COORDINATION WITH, THE CONSTRUCTION MANAGER.
5. Each Trade Contractor is responsible to review the site and be familiar with all existing conditions within and around the building including local conditions and requirements. The impact of the site conditions on the cost of performing the work shall be included in the bid. Trade Contractors shall notify the Construction Manager in writing of any discrepancies or conditions detrimental to proper performance of the Work.
6. Each Trade Contractor to provide to all other trades information and materials, shop drawings, diagrams, templates, and embedment's necessary for the coordination of the Work. It is each Trade Contractor's responsibility to field verify and coordinate all interface with other Trade Contractors.
7. Where new work connects with existing, do all necessary cutting and patching required to make a satisfactory connection with the work to be performed under the Contract Documents so as to leave the entire work in a finished and workmanlike condition. This requirement shall include all required work where new items connect, fit, or otherwise interface with existing surfaces. Provide all labor and materials to this end, whether or not shown or specified. Verify and match existing conditions. This shall include full block replacement to nearest construction expansion joint of any concrete pavement removed or damaged.
8. Each Trade Contractor shall at all times maintain a clean and safe passage to all areas of the site, and for the public around the site.
9. Each Trade Contractor shall field verify all dimensions, materials and conditions of the existing site.

10. Initial benchmarks and control lines will be provided by the Construction Manager. Each Trade Contractor is responsible for all detailed layout and grade from the indicated benchmark and control points.
11. Each Trade Contractor is to coordinate all work with the work of other trades for proper function and sequence to avoid construction delays or additional cost.
12. Each Trade Contractor is responsible for daily cleanup and disposal of all debris associated with its work activities. This shall include removal of debris from public property and/or roadways caused by work on site or carried outside of the site by vehicles employed by the Trade Contractor. Street cleaning of this debris is expected by each Trade Contractor, as necessary. Debris not removed by the Trade Contractors will be discarded at the delinquent Trade Contractor's expense. All areas of work are to be broom cleaned at the end of each workday. In addition to daily cleanup each Trade Contractor to provide 1 person for every 4 Trade Contractor employees and their subcontractors to a once-a-week job site general cleanup activity. Each Trade Contractor to provide its worker with all the necessary tools and equipment to do cleanup. There will be no tools or equipment provided by the Construction Manager. Coordination of the weekly cleanup will be the responsibility of the General Trades Contractor. Designated eating areas will be identified by the Construction Manager. These areas will be the only place for workers to eat and drink. Workers found violating this policy may be directed to leave the jobsite.
13. Each Trade Contractor shall be restricted to working hours of **7:00am to 4:00pm** unless alternate arrangements are approved by the Construction Manager. This does not alleviate the Trade Contractor's responsibility to work overtime as required to maintain the schedule.
14. Signs of any type are prohibited, except as specifically assigned by the Contract Documents.
15. Each Trade Contractor shall be responsible for the protection of its own materials, tools, and equipment, and finish work until substantial completion is granted. Damage to or theft of any materials, tools or equipment prior to substantial completion will be repaired or replaced at the Trade Contractor's expense.
16. Each Trade Contractor shall provide all temporary heat, utilities and protection required for the completion of all work as scheduled, except where specifically provided by others in the Contract Documents.
17. Each Trade Contractor shall have their superintendent attend all weekly Trade Contractor Meetings (time & location to be scheduled by Construction Manager).
18. The flow of traffic on City streets and public walkways must be maintained at all times. It shall be this Trade Contractor's responsibility to obtain all permits and provide all labor and material that are necessary for street and sidewalk lane closures. All work involved that impacts existing streets and/or sidewalks or impedes public access in any way shall be coordinated through the Construction Manager **prior to the date of the work.**

19. Each Trade Contractor shall secure all permits required by governing authorities for the completion of its own work scope. This includes all Electric, Plumbing, HVAC, Traffic or permits that are issued by the City's Department of Transportation and Engineering, street barricades and other special permits. No Permits will be secured by the Construction Manager other than the General Building permit
20. Each Trade Contractor shall submit daily reports and the weekly work plan twenty-four (24) hours before the weekly Trade Contractor meetings. Failure to submit these items each week for the prior week's work will result in rejection of this Trade Contractor's pay request.
21. Testing shall be performed in accordance with the Contract Documents. Where Owner and Trade Contractor testing are specified, the Trade Contractor shall provide complete testing. The Owner may provide additional testing at its discretion.
22. Each Trade Contractor is responsible for the complete review of, and coordination with, the Trade Contract Descriptions for other Trade Contractors. Where overlap occurs, include the cost of such work in your bid, and the Construction Manager will decide which Trade Contractor will perform this work. Appropriate credit will be deducted from the other Trade Contractor's Contract.
23. Each Trade Contractor must provide a full-time superintendent on site throughout the duration of their work on site. This superintendent shall be authorized to make all decisions relative to the work on site and shall be the primary contact for all correspondence. Part-time or token representatives who are not so authorized will not be permitted. Failure to comply with this requirement will result in rejection of this Trade Contractor's pay request. Any change of superintendent shall be pre-approved by the Construction Manager.
24. Time is of the essence on this project. Each Trade Contractor shall phase, construct and complete their work within the requirements included in Specification Section 01 32 16 and the subsequent development of and updating of the project schedule by the Construction Manager. Strict attention shall be paid to the bid schedule. These dates are critical and must be met by this subcontractor.
25. Each Trade Contractor shall complete the Resource Utilization and Inclusion Tracking Forms that are included in the Specifications or will be provided following award. The forms shall be completed on a monthly basis and submitted with the monthly pay request. Completed resource utilization forms must be submitted with the pay request in order for the pay request to be processed.
26. Each Trade Contractor will be required to attend several phasing meetings pertaining to Lean Construction. Trade Contractor shall have the appropriate personnel (more than one) attend the reverse phase scheduling meeting. Each Trade Contractor shall participate in the implementation of the Lean Construction process throughout the duration of the Project.

27. Safety hard hats, safety eye protection, High Vis, and Gloves shall be worn by all employees on this job site. This includes all of the Trade Contractor's Subcontractors and Suppliers.
28. All Trade Contractors shall use platform type ladders where ladders are necessary on this project. Other ladder types will not be allowed on site.
29. This Trade Contractor shall comply with all requirements of the Williams-Steiger Occupational Safety and Health Act of 1970 and subsequent amendments thereto. This Trade Contractor shall furnish to the Construction Manager a copy of its Safety Program, including a copy of its Hazardous Material Program, prior to the commencement of work on site. No payment will be made until these documents are received.
30. Any barricade or safety device removed by this Trade Contractor's employees shall be immediately re-erected by Trade Contractor. Upon failure to do so, the Construction Manager may direct the re-erection of it and the cost will be paid by the Trade Contractor.
31. All portions of existing site and all utilities not part of the Work which are damaged, moved or altered in any way during construction shall be replaced or repaired to the County's satisfaction at the Trade Contractor's expense.
32. Each Trade Contractor shall attend the Post Bid Interview. This interview will be scheduled by the Construction Manager. All trade contractors shall be notified in writing of the date the conference will be held.
33. Each Trade Contractor shall update their record / as-built drawings on a monthly basis, the updated as-built shall be submitted to the Construction Manager by the 20th of the month. If the Trade Contractors as-builts are not updated and submitted, the Trade Contractors pay request for that month will not be processed.
34. To facilitate the punch list process, each Trade Contractor must complete its punch list items within 3 business days (excluding weekends) of receipt (via fax, email, or distribution to the site leader) of each punch list item. Failure to complete the punch list will result in a back charge for the total cost, to have others complete the work as designated by the Construction Manager.
35. Trade Contractor to identify recycle and waste management opportunities when assessing their scope of work. These items will be reviewed at the Post Bid Interview Meeting.
36. The Construction Manager will be utilizing a web-based information management system to facilitate communications among project partners including but not limited to Owners, Architects, Engineers, Construction Manager, and Trade Contractors. The system being utilized is Autodesk document management software. All trade contractors must have an e-mail address and access to the internet.

Autodesk will be utilized for the following functions:

- a. Project Contact Directory- this will be maintained by the Construction Manager
- b. Requests for Information Management
- c. Meeting Minutes Distribution
- d. Posting of Official Notices and/or Communications
- e. Submittal Management
- f. Contract Document Management
- g. Contract Drawings in PDF
- h. Site Photographs
- i. Punchlist Management
- j. Field Work Order Management

The Construction Manager will issue usernames and passwords to each Trade Contractor and will provide training and technical assistants to the user groups. **Use of this system is mandatory.** There will be no costs passed on to the users for access to the system or license fees. Users will be responsible for the costs associated with access to the internet.

37. Each Trade Contractor to provide all labor, materials, tools, equipment, safety restraints, hoisting, rigging, fabrication, accessories, layout/control, warranties, services supervision, etc. required for a complete scope of work for this project.
38. Each Trade Contractor shall include all unloading, distribution, staging, hoisting, rigging, scaffolding, platforms, ladders, planking, guying, sheeting, shoring, bracing, transportation, access for material, equipment and personnel, etc. required to perform this scope of work.
39. This Trade Contractor's input and communication will be a vital key to ensure the demolition portion of this project is completed safely and on time. This Trade Contractor shall notify the Construction Manager within 24 hours of discovery of any issue that might impede this scope of work.
40. Strict attention shall be paid to the bid schedule. These dates are critical and must be met by this Trade Contractor. Overtime and additional manpower should be included where required to meet the aggressive schedule.
41. Shift work, multiple mobilizations and out-of-sequence work could be required.
42. Provide a detailed installation schedule within one week after the post bid interview meeting.
43. This subcontractor shall notify the Construction Manager within 24 hours of discovery of any issue that might impede this contractor's scope of work.
44. Each Trade Contractor shall provide personnel for traffic control and traffic coordination during all deliveries of material and equipment required in their scope of work. The Trade Contractor shall coordinate all such activities with the Construction Manager and the City of Cincinnati, Department of Transportation and Engineering.
45. Trucking, Wide Load Permits, Traffic Control, Road Closures, etc. to be provided by this Trade Contractor as required by all Authorities having Jurisdiction and Stadium Operations.
46. Provide traffic control and safety-controlled access zones for hoisting as required

- Include coordination with Stadium Staff as required.
47. Include Stadium Security Standards, including but not limited to, daily check-in/out, keeping all exterior doors closed, pre-planned deliveries, etc.
 48. All material to be staged on dunnage at all times. Any mud or debris must be cleaned off prior to installation.
 49. This contractor is responsible for Daily clean-up of all dunnage, debris, etc. from deliveries and hauling off-site within a timely manner.
 50. Include separate mobilizations as required to fit project flow/schedule.
 51. Shift work, multiple mobilizations and out-of-sequence work could be required. .
 52. Include a detailed schedule and plan; based on the provided bid schedule.
 53. This Trade Contractor is required to attend a pre-installation meeting to review and discuss the site plan, installation procedures, rigging procedures and company safety program prior to starting. This information must be submitted a minimum of two (2) weeks prior to the Trade Contractor's pre-installation meeting for review.
 54. Include all utility locates as required to complete ground/concrete penetration permits. This Trade Contractor shall include all utility location services required for this scope of work.
 55. This Project will follow the 5S protocol. This requires just in time deliveries of all material and equipment. As a result, this Trade Contractor shall only bring enough material and equipment to accommodate between 5 days' worth of installation. All other material must be stored off site and all trucking and storage costs associated to be provided by this Trade Contractor. New shipments of material will only be permitted when the existing 5 days' worth of material has been exhausted.
 56. All trash and debris must follow the *nothing hits the ground/floor* mentality and be placed in hoppers on a continual basis. Hoppers, skip pans, other means of transferring material, etc. to be provided as needed by this Trade Contractor. A minimum of (2) trash hoppers/dump carts per crew must be included by this Trade Contractor. Staging hoppers in other areas of the project will not be permitted. Dumpsters to be provided by CONSTRUCTION MANAGER. Dumpsters to be located within reach of the provided tower crane.
 57. Dumpsters will be provided by the Construction Manager.
 58. Include proper disposal of all debris/materials in a timely manner. Placement of the dumpsters to be coordinated by the Construction Manager.
 59. This Trade Contractor shall be responsible for dust/silica control as required for this work scope. Include broom sweeping of areas below as required to remove dust and debris caused by this scope of work.
 60. The Construction Manager will provide general use fire extinguishers on each floor as necessary. Additional fire extinguishers and fire blankets needed for specific tasks shall be provided by this Trade Contractor including when fire extinguishers are required for hot work permits.
 61. Include fire watch personnel during all hot work activities. Provide fire watch during and for at least 4 hours after flame-cutting operations.
 62. The Construction Manager will provide the tower crane.

63. Any additional cranes/hoisting required for moving material out of reach of the cranes to be included by this Trade Contractor.
64. Provide proposed hoisting plan with submission of bid.
65. This subcontractor shall provide access/logistics for transporting material. All equipment, means & methods, etc. to be included.
66. Rigging plan to be provided by this Trade Contractor prior to starting work. Rigging plan to be reviewed by Structural engineers. Take into account appropriate slab loading requirements if required.
67. Rigging to be done by certified riggers with appropriate certifications and training. Certified Riggers are required to wear Blue Hi-Viz clothing. Whistle will be required for alerting the surrounding area of a new lift.
68. Include temporary shoring/bracing as required to install the work.
69. This Trade Contractor to identify one foreman who will act as site quality control manager and be responsible to coordinate with testing / inspection agency. He/she will also be responsible for maintaining a Construction Manager approved quality / inspection plan & log as stipulated.
70. Provide all contractor required inspections as required by specifications.
71. Include coordination with third-party inspection/testing agency. Coordination shall be carried out in a timely manner to allow proper testing/sampling to be taken at each concrete placement.
72. Perimeter guardrails to be provided by others. Any modifications to perimeter fall protection to complete this scope of work is included. Coordination of such modifications to be the responsibility of this contractor and reviewed with the Construction Manager before modifications begin. Modifications shall not reduce the effectiveness of the fall protection.
73. Coordinate with the Construction Manager the removal and reinstallation of any temporary protection such as railing systems, fencing, and other hard barriers.
74. Danger tape is not permitted on Messer sites. Cones and Bones, Plastic Chain, and flagging are acceptable alternatives unless located at a leading edge. Temporary edge railings to be coordinated with the structural steel. Railing to be located back from slab edges and openings. Railings are to be left in place until permanent conditions are achieved.
75. Controlled Access Zones (CAZ) will be heavily coordinated with Construction Manager. These shall be reorganized and evaluated for need on a daily basis. If this Trade Contractor is not utilizing area below then the CAZ should be removed so other Trade Contractors can work in that area.
76. Provide complete protection of all adjacent existing conditions/finishes including but not limited to roofing, glass, skylights, pedestrian walkways, etc., from dust, slurry, debris, fire, heat, etc. Remove protection to accommodate succeeding work activities.
77. This subcontractor shall at all times protect adjacent finishes and progressing work during its installation. Existing fire suppression and fire alarm will be in operation throughout the project.

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78. Protection of existing spaces from slurry, dust, etc to be included for this scope of work.
Cleanup shall be completed on a continuous basis.
79. Include final cleaning of work areas of this contractor's material, debris, etc. prior to mobilization of subsequent contractors
80. Include final cleaning of all items installed by this Trade Contractor.
81. Take special note of all requirements within section 00 73 19a – Section 3.19 Dropped Object Prevention & Overhead Protection
82. Include scaffolding systems or other means as necessary and as needed to access the work or remove materials for this scope of work.
83. All shop drawings are to be included. Prefabrication is required and prefabrication plans are to be included during the shop drawing process. Means and methods of engineering to be included by this Trade Contractor.
84. The Hilltop Parking lot can be utilized for onsite prefabrication and storage.
85. A 3D as-built model will be provided by the Construction Manager to assist this trade contractor in developing shop drawings. This Trade Contractor to use the model to design, fab, construct, install, etc. new items attached to the existing structure and that can be installed during the on-season.
86. Coordination with all other trades is included to allow each Trade Contractor to install their scope of work.
87. Coordination, scheduling and providing necessary material and equipment including lifts to allow for third-party inspector to properly inspect the work shall be the responsibility of this Trade Contractor. Any remediation work as the result of a failed inspection shall be the responsibility of this Trade Contractor.
88. This Trade Contractor to provide access for inspections. These inspections will happen during normal working hours, and additional equipment shall be provided as needed to prevent the delays performing the work.
89. This Trade Contractor and all its sub-subcontractors to participate in Messer Structural Handoff process.
90. Reasonable and historical weather days (wind, rain, snow, etc.) are included.
91. Trade Contractors shall retain services of a licensed structural engineer to design and supervise the construction of all scaffolding for workmen.
92. Trade Contractors shall include all cost for labor, material, Rental Equipment, etc in the bid to clean bird or other animal excrement in order to perform the work.
93. Prior to the start of work, document (video or digital photos) existing conditions, such as condition of Administration Roof including Rooftop HVAC units, and Plaza concrete deck and review results with the Construction Manager.

2.C.1 CONTRACT DESCRIPTION TC-09 Miscellaneous Metals

The Scope of Work in this Trade Contract TC-09 includes all labor, material, tools, equipment, services, and supervision necessary to complete all work specified herein, in accordance with the Contract Documents, as described below to a complete functional safe and operating state.

Included is the Work as indicated in this Trade Contract Description ~~TC-05~~ TC09 the Drawings, Division 00 General Conditions and Division 01 of the General Requirements. This scope of work includes, but is not necessarily limited to, the following Specification Sections:

05 12 00 Structural Steel
05 30 00 Metal Decking
05 50 00 Miscellaneous Metals

The following items represent specific inclusions in this Contract TC-09 Miscellaneous Metals. They are provided as a guide to aid in the assignment of work and in no way should be construed as being all-inclusive.

This Contract shall include:

1. Provide / Include all notes in specification section 01 11 00 2.1B General Provisions of Bid Package #3 Trade Contracts
2. Strict Attention shall be paid to the bid schedule. These dates are critical and must be met by this Trade Contractor. Overtime and additional manpower is to be included where required to meet the aggressive schedule
3. Take special note of all requirements within Section 00 73 19a – Section 3.19 Dropped Object Prevention and Overhead Protection.
4. TC02 Demolition will provide roof protection for the Administration Building. Consisting of fire-treated plywood on rigid insulation. The Administration Building cannot be used for staging/storing material or equipment. Any additional protection for this scope of work shall be provided by this Trade Contractor.
5. Whenever this Trade Contractor is performing hot work activities, (welding, grinding, cutting, etc.), this Trade Contractor shall provide a full-time fire watch / roof cleanup person. This person must be provided with two fire extinguishers, a dump cart, broom, magnet roller, etc.. This person must be trained and capable of using a fire extinguisher per manufacturer's instructions. This person must be trained and capable of using the roof water sprinkling system provided by TC10 General Trades. This person will be responsible for shutting off the water after the minimum 4-hour fire watch has passed after the last hot work is performed
6. TC02 Demolition will provide a Temporary Scaffold Stair from Plaza level to Administration Building roof and from roof to the first level of the scoreboard for the duration of the project. Additional access to the roof, if required to be provided by this Trade Contractor.

7. Tower crane and operator to be provided by Construction Manager. The operator will be on site for a minimum of 50 hours per week. Any scheduled overtime work will be paid for by the Construction Manager.
8. TC01 Structural Steel will provide all galvanized steel stairs, steel stair railings and metal grating. Trade Contractor 09 Miscellaneous Metals to provide all galvanized catwalk railings refer to Note 22, 23, 24 A202, typical. This is a delegated design which includes stamped engineered drawings for the railing system including connections. Final design should limit the amount of field welding to reduce risk during hot work. Coordinate this work with TC01 Structural Steel. **Designer to include a one \$1 million Professional Liability E&O policy. TC01 will provide railings on the stair stringers. TC09 to provide horizontal steel railings around stair openings. Include 1/4" x 4" top plate – refer to 5 & 7/A402**
9. Any additional cranes/hoisting required for lifts, material movement, etc outside the reach of the tower crane, such as swing-stage, rough terrain forklift, etc. should be included by this Trade Contractor
10. All hoisting shall include traffic control and safety-controlled access zones for hoisting. Lifting over top of the Administration Building is not permitted.
11. Delegated Design of connections, members, etc. to be included where designated in the documents. Drawings to be stamped by a Registered Engineer as required on each page; including calculations. Provide \$1,000,000 Professional Liability **E&O Insurance policy.**
12. Provide galvanized steel kick plate; refer to 8 & 12/A310
13. ~~Provide Galvanized steel guardrail around hoistway – refer to note 13/A101. Delete. This scope of work was included in Bid Package #1~~
14. TC01 Structural Steel will provide metal decking for concrete and roof.
15. Provide welded plate & watertight connection per 5/A511
16. Provide misc. steel shown on A700, including but not limited to end plates, new angles, new W-shapes, welding, decking, etc. Coordinate work with TC10 General Trades.
17. Provide support steel for roof drains.

2.C.2 **CONTRACT DESCRIPTION TC-10 General Trades**

The Scope of Work in this Trade Contract TC-10 includes all labor, material, tools, equipment, services, and supervision necessary to complete all work specified herein, in accordance with the Contract Documents, as described below to a complete functional safe and operating state.

Included is the Work as indicated in this Contract Description TC-10 the Drawings, Division 00 General Conditions and Division 01 of the General Requirements. This scope of work includes, but is not necessarily limited to, the following Specification Sections:

- 03 33 00 Cast-in-Place Concrete
- 05 40 00 Cold Formed Metal Framing
- 06 10 53 Miscellaneous Rough Carpentry
- 07 14 00 Fluid Applied Waterproofing
- 07 42 13 Formed Metal Wall Panels
- 07 53 23 EPDM Roofing
- 07 62 00 Flashing & Sheet Metal
- 07 76 00 Concrete Pavers & Pedestals
- 07 92 00 Sealants
- 08 11 00 Steel Doors & Frames
- 08 35 13 Folding Glass Doors
- 08 44 13 Glazed Aluminum Storefront
- 08 71 00 Door Hardware
- 08 81 00 Glass Glazing
- 09 21 16 Gypsum Board Assemblies
- 09 91 00 High Performance Coatings
- 10 44 00 Fire Protection Specialties
- 22 00 00 Plumbing Specifications
- 23 00 00 Mechanical Specifications

The following items represent specific inclusions in this Contract TC-10 General Trades. They are provided as a guide to aid in the assignment of work and in no way should be construed as being all-inclusive.

This Contract shall include:

1. Provide / Include all notes in specification section 01 11 00 2.1B General Provisions of Bid Package #3 Trade Contracts
2. Strict Attention shall be paid to the bid schedule. These dates are critical and must be met by this Trade Contractor. Overtime and additional manpower is to be included where required to meet the aggressive schedule
3. Take special note of all requirements within Section 00 73 19a – Section 3.19 Dropped Object Prevention and Overhead Protection.

4. TC02 Demolition will provide roof protection for the Administration Building. Consisting of fire-treated plywood on rigid insulation. The Administration Building cannot be used for staging/storing material or equipment. Only the Plaza level can be used for storage / staging. Any additional protection for this scope of work shall be provided by this Trade Contractor.
5. Provide a water sprinkler system covering the entire Administration Building roof to be in use during any hot work activities. Include hoses, fittings, sprinklers, etc. to be used whenever hot work activities are being performed. Any Trade Contractor performing hot work will need to use this system. If required, provide one water key to each Trade Contractor performing hot work.
6. Whenever this Trade Contractor is performing hot work activities, (welding, grinding, cutting, etc.), this Trade Contractor shall provide a full-time fire watch / roof cleanup person. This person must be provided with two fire extinguishers, a dump cart, broom, magnet roller, etc.. This person must be trained and capable of using a fire extinguisher per manufacturer's instructions. This person must be trained and capable of using the roof water sprinkling system provided by TC10 General Trades. This person will be responsible for shutting off the water after the minimum 4-hour fire watch has passed after the last hot work is performed
7. TC02 Demolition will provide a Temporary Scaffold Stair from Plaza level to Administration Building roof and from roof to the first level of the scoreboard for the duration of the project. Additional access to the roof, if required to be provided by this Trade Contractor.
8. Place skip pan on roof pavers for removal of trash/debris. Coordinate landing of the skip pan with the construction manager. Skip pan to be covered at all time to prevent high winds from blowing debris out of pan
9. Tower crane and operator to be provided by Construction Manager. The operator will be on site for a minimum of 50 hours per week. Any scheduled overtime work will be paid for by the Construction Manager.
10. Any additional cranes/hoisting required for lifts, material movement, etc outside the reach of the tower crane, such as swing-stage, rough terrain forklift, etc. should be included by this Trade Contractor
11. All hoisting shall include traffic control and safety-controlled access zones for hoisting. Lifting over top of the Administration Building is not permitted.
12. Tower crane base will be provided, removed, and site restored by TC07 Site Foundations and TC08 Site Restoration
13. Provide sawcut and remove portion of existing precast planks; refer to A/A700
14. Provide concrete and reinforcing steel for Video Room floor, including but not limited

- to formwork at step down at back of videoboard panels, reinforcing chairs. formwork for boxouts, placing sleeves provided by others, etc. Metal decking is provided by TC01 Structural Steel. Allow for a minimum extra ½” of concrete to account for metal deck deflection,
15. Prior to placing concrete, include sealing of all holes in the metal deck of ¼” or less to prevent liquid slurry from dropping below.
 16. Provide concrete washout boxes. Coordinate location with Construction Manager.
 17. Provide all wood blocking for roofing, windows, etc. Refer to Typical Roof Infill Railing per 8/A402, refer to 2,3 & 5/A511 and Folding Door Head Track A601
 18. Provide TPO Roof system including but not limited membrane roof, insulation, blocking, copings, external & internal gutters, downspouts, perforated metal panel on CFMF soffit, etc.
 19. Provide Roof drains and Overflow drains – refer to not 9/A101
 20. Provide all joint sealants for this Scope of Work. Include silicone sealant at top of flashing and at perimeter of beam; refer to 9/A501
 21. Provide removal & replacement of concrete topping and patch waterproofing; refer to A/A700, 1/A700 & 2/A700 and match existing system. TC-09 will provide misc. steel.
 22. Provide all Doors, Frames and Hardware including hardware for access control.
 23. Provide Aluminum Windows and Sliding Glass openings/Nanawall at videobooth, including miscellaneous support steel / cold formed metal framing if required to support the opening.
 24. Provide all 2” insulated metal panel wall systems; refer to Note 3/A201 and Sheet A501. Provide all structural steel and/or cold formed metal framing to support the insulated metal panels per the specifications. Any item noted “by others” that is needed to support or provide a complete IMP system is included.
 25. Provide all Gypsum Board Assemblies.
 26. Provide all High Performance Coatings
 27. Provide all Fire Protection Specialties / column mounted and wall mounted fire extinguishers.
 28. Provide composite wall base trim; refer to 1/A310
 29. Reinstallation of salvaged and stored flagpole will be by TC01 Structural Steel. TC 10 General Trades will prep and paint flagpole prior to erection.

30. Provide the permanent 6,000-pound capacity hoist with access cover.
31. Provide a complete Plumbing scope of work including storm piping, connection to existing, roof drains, cleanouts, etc
32. Provide Spray insulation on Steel Structure per note 21/A101, sheet A510, etc.
Include FIP Insulation per 9/A501.
33. Include Note 26/A101 Existing dropped ceiling. Remove and replace as required for MEP work. Coordinate with MEP Drawings.
34. Include an Add Alternate to provide the HVAC system shown on 3/H201
35. Base Bid to include the HVAC Systems shown on 1/H202 including wall and/or roof support steel, hangers, reinforcing at openings, etc.
36. The electrical scope of work will be provided by TC03 Electric.
37. **Refer to 05 40 00 1.6B, TC10 to Engage a qualified Professional Engineer to prepare shop drawings, design calculations, and other structural data. Designer to include a one \$1 million Professional Liability E&O policy.**
38. **Refer to 07 42 13 1.6.C.9; Secondary Metal Framing: Design secondary metal framing according to AISI's "Standard for Cold-Formed Steel Framing – General Provisions." . Designer to include a one \$1 million Professional Liability E&O policy.**
39. **Refer to 07 76 00 1.10.A Extra Materials: Deliver supply of maintenance materials to the owner. Furnish not less than 20 pavers as maintenance materials from same lot as materials installed and enclosed in protective packaging with appropriate identifying labels.**
40. **Refer to 07 76 00 3.3; "...wash entire surface..., allow to dry... apply sealer."**
41. **Refer to 07 14 00 3.4A; Water Test; Prior to installation of drainage board, plug drains and outlets and water test flashing and membrane by ponding horizontal areas a minimum of 2 inches for a period of 24 hours.**

End of Section

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

SECTION 07 21 00

INSULATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Spray Applied Foam Insulation System
- B. Related Sections:
 - 1. Section 05 12 00 – Structural Steel.
 - 2. Section 05 30 00 – Metal Decking.

1.2 REGULATORY REQUIREMENTS

- A. Concealed foam plastic insulation shall have a maximum flame spread rating of 75 and a maximum smoke developed rating of 450 as required by the Ohio Building Code.
- B. Exposed foam plastic insulation shall meet Diversified Tests under FM Procedure 4880, U.L. Subject 1040 or UL 1715 as required by the Ohio Building Code.
- C. Fire-Test-Response Characteristics: Provide insulation and related materials with the fire-test- response characteristics indicated, as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.
 - 1. Surface-Burning Characteristics: ASTM E 84.
 - 2. Fire-Resistance Ratings: ASTM E 119.
 - 3. Combustion Characteristics: ASTM E 136.

1.3 SUBMITTALS

- A. Product Data:
 - 1. Submit manufacturer's literature for each type of insulation required indicating compliance with specified requirements.
- B. Reports:
 - 1. Submit evaluation service reports or other independent testing agency reports showing compliance with specified performance characteristics and physical properties.

1.4 QUALITY ASSURANCE

- A. Source Limitations: Obtain each type of building insulation through one source from a single manufacturer.
- B. Applicator: Acceptable to manufacturer of spray-applied insulation.
- C. Mock-up: Prior to installation of the spray applied acoustic insulation system, erect a mock-up to verify color and texture selections made under sample submittals and to demonstrate aesthetic effects.
 - 1. Apply sample section to installed portions of construction selected by Architect. Apply in presence of Architect, and manufacturer's authorized representative. Confirm requirements of thermal ratings and finish texture. Approved mock-up shall be left in place as part of the finished project and shall be used as the standard for remaining work.
 - a. Minimum size: 25 square feet.
 - 2. Comply with project requirements as to thickness, density of application, and thermal rating.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver insulation to site in sealed packages.
- B. Do not allow insulation to become wet or soiled, or covered with ice or snow.
- C. Comply with manufacturer's recommendations for handling, storage and protection.

PART 2 – PRODUCTS

2.1 MATERIALS

- A. Spray applied acoustic insulation: Cellulose fiber, chemicals for fire-retarding and control of pH and vermin resistance, dry adhesive/binders, fillers, and additives, exclusive of asbestos; to be mixed with water and liquid adhesives, sprayed in place and cured; forming a uniform thickness as indicated; with flame spread rating of 25 or less per ASTM E 84.
 - 1. Basis of Design: International Cellulose Corporation: "K-13", color as selected by owner.
 - 2. Acceptable Manufacturers: Subject to the requirements of the specified product, other acceptable manufacturers include the following:
 - a. ThermoCon, Inc.
 - b. Thermacoustics Industries.
 - 3. Bonding adhesive: Provide type recommended by manufacturer, for each type and condition of substrate to be covered with sprayed-on insulation.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions with Installer present, for compliance with requirements of Sections in which substrates and related work are specified and for other conditions affecting performance.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrates of substances harmful to insulation or vapor retarders, including removing projections capable of puncturing vapor retarders or of interfering with insulation attachment.
 - 1. Remove debris from concealed spaces before installing insulation.

3.3 PREPARATION FOR SPRAY APPLIED INSULATION

- A. Clean substrates free of dirt, oil, grease, loose paint, scale or other foreign substances capable of impairing bond of spray-applied insulation.
 - 1. Ensure that surfaces are dry, and free from loose paint, dust, dirt, oil and efflorescence. Clean chalky surfaces to a sound substrate. Comply with coating manufacturer's recommendations.
 - 2. Remove incompatible materials which affect bond, by scraping, brushing, scrubbing, or other acceptable means.
- B. Confirm compatibility of surfaces to receive sprayed-on insulation materials.
- C. Coordinate installation of spray applied insulation with other related construction to minimize the need to cut or remove insulation.
 - 1. Verify that clips, hangers, supports, sleeves, and other items required to penetrate insulation are in place before application.
 - 2. Verify that ducts, piping, equipment, or other items which would interfere with application of sprayed-on insulation are not positioned until insulation work is completed.
- D. Patch holes, cracks, and similar voids in areas to receive spray applied insulation with material recommended by insulation manufacturer to ensure even appearance of insulation.
- E. Surfaces to receive spray insulation shall be inspected prior to application to determine if priming/sealing is required to ensure bonding and/or to prevent discoloration caused by migratory stains. Prime accordingly.
- F. Protection:
 - 1. Cover other work subject to damage from fallout or overspray of insulation during application.
 - a. Provide masking, drop cloths or other satisfactory coverings for all materials/surfaces which are not to receive insulation to prevent damage from over-spray.
 - b. Adjacent surfaces without spray applied insulation shall be masked to a true line, at a distance from the insulated surface equal to the required insulation thickness.
 - 2. Close off and seal ductwork in areas where insulation is being applied.

3. Protect applied sprayed-on insulation from damage.
4. Provide temporary enclosure as may be required to confine operations, protect the environment, and ensure required ambient conditions.
5. Provide natural or mechanical ventilation continuously to properly cure the insulation.

3.4 INSTALLATION

A. Spray-Applied Acoustic Insulation:

1. General: Mix and apply insulation in strict accordance with manufacturer's instructions for particular conditions of installation.
2. Primer: Apply bonding adhesive to substrate as recommended by the manufacturer.
3. Installation:
 - a. Install insulation full thickness over entire substrate as indicated on Drawings and specified herein.
 - b. Exercise care to spray material completely into inverted corners, and to build up work to full thickness in projecting corners.
 - c. Cover substrate in a monolithic blanket of uniform density and texture.
 - d. Full required thickness shall be achieved in one application, unless otherwise acceptable to Architect.
 - e. At areas adjacent to suspended acoustical ceiling panels, extend sprayed acoustic insulation minimum 2-feet beyond edge of suspended acoustical system.
4. Installation and curing shall be accomplished according to the manufacturer's recommendations and common construction standards.

3.5 ADJUSTMENT AND CLEANING

- A. Upon completion, verify with Architect that insulation is acceptable for thickness, adherence, and appearance.
- B. Correct unacceptable work and verify compliance with requirements.
- C. Patch areas damaged by other trades when directed by Architect. Costs for patching shall be paid by trades causing damage as specified in sections affecting those

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trades.

- D. Protect sprayed-on insulation, according to advice of insulation manufacturer and installer, from damage resulting from construction operations or other causes so that insulation will be without damage or deterioration at time of Substantial Completion.
- E. Cleaning: Immediately after completing spraying operations in each containable area of Project, remove material overspray and fallout from surfaces of other construction and clean exposed surfaces to remove evidence of soiling.

END OF SECTION