

**QUESTIONS AND ANSWERS REGARDING
MSCAA PROJECT 08-1260-05
Glycol Management Program – Control Facility - Construction**

1.	. . . the only question I have at this time regarding controls. Please ask if they will furnish control spec. There are references to the control spec within other spec sections, but none there. There is also referenced to tying into JCI system on plans, so I am sure it would be tight-spec'd JCI.
	Control Specs added in Addendum No. 2.
2.	The tentative schedule for the NTP is the first week of September with a 12 month duration. Structural joist and metal decking is in high demand and are experiencing 9 - 10 month lead time after approval of shop drawings. Allowing time for procurement, submittals and approval of submittals, the schedule does not allow enough time for project completion. Will an alternative schedule be provided?
	No. See answer to questions 5 and 6 for additional information on this subject.
3.	We have a confirmed subcontractor who is listed as a WBE with the city of Memphis, but they are not found on the DBE list for either the airport or TN UCP. Will their participation count towards our 25% goal or must they be listed on either of the directories listed in the project manual?
	Only those currently certified as a DBE with the airport or TN UCP will be counted toward the 25% goal.

Can you please confirm the responsibility of the following systems below? As of now, JCI/Simplex will only be responsible for the fire alarm system; however, if the Mass Notification system design and sequence is providing, they would cover that as well.

The list below are items that are listed in Div. 28, and we wanted to make sure that there weren't any scope gaps. Please acknowledge the systems that will be covered by others and is not scope covered under this bid.

- 4.
1. Dry Chemical system.
 2. Wet Chemical system
 3. Clean Agent System
 4. Smoke Control system. interface only
 5. Smoke Management System.
 6. Mass Notifications. If design and sequence of operation is provided.
 7. Manually Actuated Signaling.
 8. Control Units for Burglar alarm propriety protective signaling system.
 9. Airport fire alarm system interface.

Bid for mass notification could be bid if design and sequence of operation is provided. Interface with a smoke Evac system can be provided also, but we haven't seen either on the drawings. There is also nothing indicating this would interface with the airport fire alarm system.

See note 12 in general project notes on sheet E0.1 revised in Addendum No. 2.

Please be advised that given the recent supply-chain disruption of structural steel delivery and pricing (including bar joists), (Contractor) ... is submitting this Request For Information for direction should structural steel and bar-joists not meet scheduled delivery. With a projected contract start of 9/1, it normally could be projected for structural steel and bar-joists to be on-site on or around January 2022. We have been told by more than one steel subcontractor (including attached e-mail from Contractor) that the best delivery for joists is April and could be as late as July 2022. Structural Steel is obviously a critical path discipline, and this current anticipated delivery date would result in a 3 to 6-month delay of the project. To remain on-site during such a delay would result in continuing overhead and "non-productive" supervision that would not be included in the mandated 335-day construction schedule.

5. Please advise how the owner will address such a delay that is obviously beyond the General Contractor's control. Looking forward to your reply. Thank you.

Attachment email from Supplier:

In reference to the Glycol Management Program project at MSCAA that bids next week. We will not be bidding this project due to the schedule relative to joist delivery. As of now we are being told late 1st quarter maybe even into second quarter for delivery of bar joist and as I understand there is a one year schedule. The joist and deck companies will not hold their pricing for the duration required. Even if a purchase order is issued, they are subject to change pricing if material increases occur.

	<p>MSCAA recognizes the extraordinary environment surrounding steel and other materials, but specifically the availability of bar joists and 1 ½” metal decking. To provide support to contractors bidding the project we offer the following recommendation related to the issue of bar joist and metal decking availability.</p> <p>Contractor to bid the project assuming normal availability of bar joist and metal decking. Designer is working on an alternate roof design that will eliminate bar joists and 1 ½” metal decking from this project. Here is a description of the proposed alternate design: The roof framing currently consists of horizontal steel beams that frame the maintenance bays, which support steel bar joists at approximately 5 feet on center on which the 1 ½” steel roof deck is attached. The Proposed alternative would be to eliminate the joists at 5 feet on center and the 1 ½” decking. These would be replaced with steel beams at 10 feet on center with 3” deck which will span the 10 feet. If at contract award, bar joist and 1 ½” decking still have availability issues, we will immediately work with awarded contractor on the alternate design. If determined alternate design is best path forward for contract schedule, a change order will be issued.</p> <p>MSCAA will begin efforts on this redesign to have revised drawings ready, following contract execution, for contractor pricing. A procurement NTP can be discussed with apparent low bidder prior to full NTP to allow for initial material purchase.</p> <p>Additionally, in the event that the substantial completion date is missed and caused solely by documented material/supply chain delays, Liquidated Damages will not be assessed. See revised Section 01100 – Summary of Work in Addendum #2.</p>
6.	<p>Given the current status of the market, and its effect on material prices, I would like to know if any consideration has been made regarding cost escalations? Most suppliers will not hold pricing for more than 30 days, and some will not hold pricing for more than a week. Will the Owner consider an allowance to cover such cost escalations, or make any other provisions?</p>
	<p>MSCAA recognizes the extraordinary environment surrounding material availability and procurement. To provide support to contractors bidding the project we offer the following provisions/recommendations:</p> <ol style="list-style-type: none"> 1) We are reducing time that bids are valid from 75 days to 30 days. Intent is to have bids reviewed, Board approval, and contract executed within 30 days of bid date. Immediately following contract award, we will begin submittal process to allow for material purchase. See revised Specification 00405 Proposal Form in Addendum #2. 2) MSCAA does allow for payment of stored materials on-site. Off-site materials are paid upon Owner approval. See Specification 00500 – Construction Contract, Section 4.05 for additional information.
7.	<p>During the pre-bid zoom call, it was mentioned the majority of the project would be built outside level 1 security but during the later portion of construction would be in level 1. Please provide the milestone date of when all construction activities will be in Level 1 area. Also what gate will be utilized for access to Level 1 for this project.</p>
	<p>The only milestone dates required by MSCAA on this project are substantial completion and final completion. Project may remain outside the AOA until substantial completion, if construction allows. MSCAA has no required date of project site becoming AOA, other than by substantial completion. If needed to transition project site to the AOA prior to substantial completion, the access gate immediately to the north constructed as part of the project will be utilized.</p>

8.	Will subcontractor be responsible for drug testing, badging, security in and out, and orientation fees?
	MSCAA does not specifically require drug testing but all workers will be required to obtain an MSCAA badge. If project site becomes AOA, MSCAA will provide guard required for entry/exit.
9.	Will the subcontractor be required to fill out the specification bid forms, and DBE requirements or just provide a proposal letter?
	All DBE forms in package for submittal are to be completed by the Prime Contractor. Please contact MSCAA for more specific questions regarding DBE requirements.
10.	Will there be a requirement for electrical power for a crane?
	Yes. Please see disconnect shown and labeled on E3.1 and panel schedule for L2 on E1.4.
11.	Will there be an add alternate cost for full time, on-site, dedicated, and qualified safety manager, even if your EMR is < 1?
	No. Contractor shall provide safety manager in accordance with contract documents. Cost shall be included in the lump sum bid.
12.	Referencing electrical drawing, E1.3 electrical one-line diagram. Can you confirm the responsibilities of the electrical contractor? Please see below. We understand that we are providing the power, rough-in conduit, and hand hole box. a) Would the pedestal and specialty boxes be the responsibility of the Low voltage contractor? b) Would the bollards be the responsibility of the GC? c) We will exclude procurement and installation of Exit, Safety, and Approach loops. d) We will exclude all low voltage equipment and wiring, e.g., fiber, and CAT 5e.
	See note 11, 12, & 13 in general project notes on sheet E0.1, addendum No. 2. Regarding one-line diagrams for gates shown on E1.3 a) Pedestal and specialty boxes will be provided by the contractor. b) Yes, bollards will be responsibility of the contractor. c) Contractor to include these items as shown in the plans/specs. d) All low voltage cable/equipment to be provided as part of this project. Contractor shall Coordinate with Schneider electric for equipment/cabling to be provided as part of their services.
13.	Referencing electrical drawing, E1.3 electrical one-line diagram. a. Can you confirm that the generator and Future Tenant UPS will be excluded from this bid? b. Please confirm that Panel P5 will be fed from Panel P1, in lieu of Future UPS?
	a. Generator is NOT part of this bid. UPS-1 is a 30KVA device required in this bid. Plan revision to reflect this included in Addendum 2. b. Panel P5 will be fed from the UPS.

<p>14.</p>	<p>Please provide a Cap Plate Thickness/Detail for all HSS/Wide Flange Columns. Provide a size and base plate for the HSS Column on GL F/9. Reference Drawing S3.3 Provide a Detail for Cantilever Columns. Please provide a detail for how the C10 Post Ups will be attaching to Foundation Columns/Wide Flange Beams.</p>
	<p>Cap plate thickness to be 1/2" for all columns except at moment connections where the minimum thickness matched the beam flange. Column at F/9 is type C1 with BP-14. C10 Columns to have a 1/2"x6"x12" base plate w/ (4) 3/4" A325 bolts. Information to be added to details as part of IFC set.</p>
<p>15.</p>	<p>Reference Drawings S3.7 & S5.2 Can Typical Details be provided for how Wide Flange Beams/ HSS Beams will frame into HSS Columns/ Wide Flange Columns?</p>
	<p>Wide flange beam to beam connections shall be standard double angle bolted connections. Wide flange beam to wide flange column connections shall be standard double angle bolted connections where space permits and single shear plate bolted connections elsewhere. Wide flange beam to HSS columns shall be single shear plate bolted connections. Typical Details to be added to IFC set.</p>
<p>16.</p>	<p>Does the Airport have a preferred fire alarm provider?</p>
	<p>Yes. JCI/Simplex will be required. See revised Specification 28 31 11 in Addendum #2.</p>
<p>17.</p>	<p>Can you please confirm the responsibility of the following systems below? As of now, JCI/Simplex will only be responsible for the fire alarm system; however, if the Mass Notification system design and sequence is providing, he would cover that as well.</p> <ul style="list-style-type: none"> a) Dry Chemical system. b) Wet Chemical system c) Clean Agent System d) Smoke Control system. e) Smoke Management System. f) Mass Notifications g) Manually Actuated Signaling. h) Control Units for Burglar alarm propriety protective signaling system. i) Airport fire alarm system interface. <ul style="list-style-type: none"> • Is there a division 31 spec available? • Is there a division 32 spec available?

MEMPHIS-SHELBY COUNTY AIRPORT AUTHORITY

MEMPHIS, TENNESSEE



	<p>See note 12 in general project notes on sheet E0.1, addendum No. 2.</p> <p>Regarding Division 31 and 32 Specification, per sheet C-GN-00, Project to be constructed under the Standard Specifications of the Tennessee Department of Transportation Dated January 1, 2021 and additional specifications and special provisions contained in the plans and in the project contract.</p>
18.	<p>We have reviewed the bid docs and the drawings call for an "alkaline fire extinguisher". 2 types of extinguishers have alkaline agents- Class "K", and Class "D". Class "K" are used in kitchens so I am fairly certain what they are asking for is Class "D" type.</p> <p>We have only located 2 manufacturers and both have reported that they are on a "pause" in manufacturing these units. They have removed them from their online stores and all they can tell us is they hope to offer them again in the future. Will a Class "K" type would work since these are available?</p>
	<p>Bid to provide Class D. If at a later date there is still an issue procuring Class D we will make an alternate recommendation.</p>
19.	<p>In order to price the project accordingly, we would like to know if there are any other contract obligations not listed in the Contract or Exhibit E (FAA Required Contract Provisions) that would be required by the Federal Aviation Authority for this project.</p>
	<p>No. All requirements are listed in the Contract.</p>
20.	<p>Please see attached concern from a metal panel subcontractor that is being submitted as an RFI. Please review and respond to the noted concerns. Thank you</p> <p>According to the material legend, #4 is metal panel B in a vertical orient at ion. That is a 12" wide single-skin panel from Fabral, according to the specs. It is drawn as large, rectangular panels with joints, which makes me think they want ACM there . Additionally, these #4 metal panels are scaling to an average size of 7'-2" x 8'-8", which is impossible . The length isn't an issue - we can go up to 16' long- but the widest we can make is 60". If the intent is for this to be ACM, we suggest using Alflex as the manufacturer. I cannot quote without having an accurate panel count, so the drawings will need to be revised unless accurate direction can be given in order for me to get a total panel count.</p>
	<p>No ACM – drawings and specs required vertical metal panels to have 1.5" ribs at 12" O.C.</p>
21.	<p>Please see the questions below. Please advise.</p> <ul style="list-style-type: none">• Please verify who is financially responsible for testing.• Is there a Geotechnical Report available? If so, can we obtain a copy of it?
	<p>Contractor is responsible for all testing.</p> <p>Geotechnical Report is included as an appendix to the specifications.</p>
22.	<p>In regards to the OCIP program, will we need to show our insurance cost deducted from the bid before bid opening or after. If prior, is there a necessary document required to show our insurance deductions?</p>

	<p>OCIP is a Bid Net Program. Contractor shall remove their cost of insurance for the coverages provided by MSCAA from the bid. Upon award and enrollment contractor will be required to provide these calculations via form 2 in the OCIP Manual.</p>
23.	<p>Please confirm per section 00445, page 1, that all lower tier certified DBE Subcontractors working for DBE and Non-DBE subcontractors will be counted toward the 25% DBE goal.</p>
	<p>Yes, all level DBE participation, that is verified to be a certified USDOT DBE, will be counted toward the goal.</p> <p>All DBEs used for the purpose of meeting the goal must have their own Assurance Statement. The Assurance Statement must be filled out by the Prime, designating who is the tier one Subcontractor and their signature, the tier two DBE subcontractor and their signature, all turned in at the time of the bid submittal.</p>
24.	<p>SS 10.28.00 - Drawings A7.6 thru A7.11. Specs state to install toilet accessories where indicated on the drawings. Specs also indicate that lengths and configurations of grab bars are indicated on the drawings. Also it seems that there are accessories specified that do not show up on the drawings. Request that you indicate where and what accessories are required and amend specs if there are accessories that are not required.</p>
	<p>Provide all specified toilet accessories as shown on the A7 sheet series AND AC sheet series.</p>
25.	<p>C-UT-01 - Will MLGW be responsible for demolition and installation of gas line?</p>
	<p>The 1" Ngas service line will not need to be demolished. MLGW has not installed the service line on the previous project as of July 22nd, 2021. MLGW will be instructed to install the 1" Ngas service to the future termination point for the Control Facility. See revised drawings included in Addendum 2. MLGW will be responsible for installation of the proposed 1" Ngas service line up to and including setting the meter (see mechanical sheets for meter location). The Contractor will be responsible for all installation of the Ngas service line on the downstream side of the meter.</p>
26.	<p>C-UT-01 - Please clarify the material required for sewer line. Drawings show PVC but notes on C-UT-00 specify ductile iron.</p>
	<p>Sewer line shall be PVC.</p>
27.	<p>C-UT-01 - Please confirm that all waterline to be installed will be ductile iron.</p>
	<p>Water line shall be Ductile Iron.</p>
28.	<p>C-GN-13 - Please clarify if bedding A, B, or C is to be used for sewer line in Detail 1.</p>
	<p>Class B.2 bedding shall be used.</p>

29.	C-HZ-02 - Please specify what strength concrete is to be used per Detail 1.
	All concrete pavements shall achieve a 28-day compressive strength of 4,000 psi.
30.	C-HZ-02 - Please extend aggregate base course from 12" to 36" beyond the edge of pavement to provide a stable trackline for paving equipment
	Detail shall be modified to show 36" from beyond the edge of pavement. See revised drawings included in addendum 2.
31.	SS 05 21 00 & SS 05 31 00 - We have spoke with several steel fabricators and all are indicating that there is a problem with getting joists delivered in a timely manner. We are being told delivery of joist materials can take between 6-8 months after materials are approved and released for fabrication. Based on the following, the current contract duration of 335 calendar days is not sufficient time to submit, approve, procure, install and then complete the remaining contract work: (1) November 1, 2021, receive NTP (2) November 30, 2021, PO complete (3) January 15, 2022 prepare & submit shop drawings (4-6 weeks) for approval (4) February 25, 2022 approve shop drawings (4-6 weeks) (5) August 25, 2022 to October 25, 2022 deliver joist - based on 6-8 month delivery. Note that the 335 day duration would expire on October 2, 2022 and the joists would not even be on-site. Request that you look into this matter and extend the contract duration accordingly or provide contract guidance on how to handle this matter.
	See answers provided for questions 5 and 6 of this Q/A.
32.	C-UT-01 - Please clarify what class of RCP is to be provided for storm drain pipe.
	Class III RCP shall be used for all storm drain pipes.
33.	C-GN-07 - Please provide a specification on the joint sealant silicone material.
	Refer to TDOT Standard Specification 905.05 Joint Sealants for requirements on joint sealant silicone material.
34.	AS1.1 - Please confirm if concrete curb is only required in the single run shown on AS1.1, or if the perimeter of the asphalt parking lot is to receive curb.
	Refer to civil series for scope of concrete curbs.
35.	DIVISION 0 - SECTION 00445 - Please confirm whether Disadvantaged Business Enterprises (DBE) are required to provide their DBE certificate(s) to the prime contractor to be submitted with the proposal.

	Yes. DBE's are required to provide their DBE certificates, or signed letter from Certifying DOT agency, to the prime contractor to be submitted with the proposal.
36.	BID ENVELOPE FORM - Please confirm which, if any, subcontractors must provide copies of their TN Contractor's Licenses with the proposal.
	No, Subcontractors are not required to provide copies of their licenses but must provide license numbers on the bid form. TN Contractor's license should be available upon request after bid.
37.	Information on All Firms that Provided Bids or Quotes to: Please confirm whether the prime contractor may convert this form to Excel format in order to enter typed data with ease with the stipulation all columns remain exactly the same.
	Yes. Form may be converted to excel for the purpose of entering data.
38.	SS 07 42 13 paragraph 2.3.A and 2.3.B and Exterior Elevations - Specs identify System A as vertical panels and System B as horizontal panels. The elevation drawings identify System A as horizontal panels and System B as vertical panels. Please reverse the specification designation or verify and correct panel orientation and type on the drawings.
	Use the elevations and verbiage to clarify the orientations required - ie, if the verbiage says horizontal and there are horizontal lines, then the horizontal spec applies - and likewise for the vertical. The blue is vertical. Colors from Fabral Almond for Almond, Dove Gray for Granite, Regal Blue for Berkshire Blue.
39.	Elevation A.B/A2.5 #4 and Detail 1/A5.17 1. Elevation A,B/A2.5 #4 indicates metal panel system B (#4) - Vertical Berkshire Blue 2. Detail 1/A5.17 indicates horizontal panel Please verify correct panel orientation and type on drawings.
	Use the elevations and verbiage to clarify the orientations required - ie, if the verbiage says horizontal and there are horizontal lines, then the horizontal spec applies - and likewise for the vertical. The blue is vertical. Colors from Fabral Almond for Almond, Dove Gray for Granite, Regal Blue for Berkshire Blue
40.	Elevations 1/A2.2; 2/A2.2; 1/A2.3; and 2/A2.3 This is for the first horizontal panels above the brick line around the Control Tower (see attached). 1. Elevations 1/A2.2, 2/A2.2 and 1/A2.3 call for #2, horizontal panel (Granite Color) 2. Elevation 2/A2.3 calls for #3 vertical panel (Almond color) but shows the panels as being horizontal panels Please verify correct panel orientation, type and color on the drawings."
	Use the elevations and verbiage to clarify the orientations required - ie, if the verbiage says horizontal and there are horizontal lines, then the horizontal spec applies - and likewise for the vertical. the blue is vertical. Colors from Fabral Almond for Almond, Dove Gray for Granite, Regal Blue for Berkshire Blue.

41.	<p>Detail 1/A5.17 1. Should there be an angle support at the top like the bottom to support decking? If so, add to detail. 2. Detail does not identify SSMR substrate materials. Shouldn't the detail identify metal decking, insulation with R Value and sheathing type? If so, add to detail."</p>
	<p>1. Yes, provide the angle support. Revision will be included in the IFC. 2. Yes, the substrate materials are the same as noted on the other details. Revision to be included in the IFC.</p>
42.	<p>Wall Panel Colors The colors selected for the wall and roof panels on the drawings: (Bronze for tower wall; Almond, Granite, Berkshire Blue for lower walls) (Interstate Blue for SSMR) (Assume Interstate Blue for canopy soffit, Bronze for tower soffit), are not standard colors with Fabral, the basis of design. These are all colors, standard and custom, from Peterson Aluminum (PAC-CLAD). They also have the same panel profiles as specified and indicated.</p> <p>Please review the drawings for colors, wall orientation, panel types and issue revised drawings and specifications as needed to reflect what is required.</p>
	<p>Use the elevations and verbiage to clarify the orientations required - ie, if the verbiage says horizontal and there are horizontal lines, then the horizontal spec applies - and likewise for the vertical. the blue is vertical. Colors from Fabral Almond for Almond, Dove Gray for Granite, Regal Blue for Berkshire Blue.</p>
43.	<p>Structural Steel We have received the following items form one of the local steel fabricators:</p> <ol style="list-style-type: none"> 1. Please provide a Cap Plate Thickness/Detail for all HSS/Wide Flange Columns. 2. Provide a size and base plate for the HSS Column on GL F/9. Reference Drawing S3.3 3. Provide a Detail for Cantilever Columns. 4. Please provide a detail for how the C10 Post Ups will be attaching to Foundation Columns/Wide Flange Beams. Reference Drawings S3.7 & S5.2 5. Can Typical Details be provided for how Wide Flange Beams/ HSS Beams will frame into HSS Columns/ Wide Flange Columns?"
	<ol style="list-style-type: none"> 1. Cap plate thickness to be ½" for all columns except at moment connections where the minimum thickness matched the beam flange. 2. Column at F/9 is type C1 with BP-14. 3. I am unclear where a "cantilevered column" occurs. 4. C10 Columns to have a ½"x10"x12" base plate with the column off center to allow bolting to the beam flanges w/ (4) ¾" A325 bolts. C10 columns bearing over an existing column will be welded in lieu of bolted. Note, all C10 columns can be weld to the supporting framing in lieu of bolting. For welded connection the base plate should be ½"x6"x4" and will require a 5/16" fillet weld all around. 5. Typical connections: <ul style="list-style-type: none"> • Wide flange beam to beam connections shall be standard double angle bolted connections. • Wide flange beam to wide flange column connections shall be standard double angle bolted connections where space permits and single shear plate bolted connections elsewhere. • Wide flange beam to HSS columns shall be single shear plate bolted connections.
44.	<p>C-EC-01 - Please provide more information on the existing electrical manholes to be adjusted. Diameter, composed of brick or concrete, etc.</p>

	Existing electrical manholes are Old Castle, 4'-0" x 4'-0" x 4'-0" boxes, consisting of precast concrete.
45.	Furniture & Equipment Drawings - Can we get the CAD files for the furniture systems drawings? We have received this request from the local . . . representative.
	CAD files will be issued upon award.
46.	Interior Elevations A7.9 & A7.10 - Please provide mounting detail for bathroom countertops.
	Bathroom countertops are wall mounted and secured to blocking in the wall and tile work.
47.	Furniture Drawing F1.3 calls for 17 Task Seating while Drawing F1.5 Item 4 calls for 15 Task Seating. Please clarify quantity.
	17 are required
48.	Toilet Accessories - SS 10 28 00 paragraph 3.01A states to install toilet accessories where indicated on the drawings. Interior elevation drawings show locations of grab bars and toilet tissue holders but no other accessories that are referenced in the specifications are shown on the drawings. Provide locations of required toilet accessories.
	Provide all specified toilet accessories per A7 series and AC series sheets.
49.	Exterior Signs - Please provide specs for the exterior signage.
	<p>1. All exterior numbers as shown on the A2 series shall be cast aluminum. Exterior numbers shall be mounted with concealed anchors secured to studs and blocking and shall be silicon sealed full perimeter with silicon recessed and not smeared so that it is visible on top of metal panels.</p> <p>Information to be added to 10 14 00 in IFC set.</p>
50.	Please provide additional information on cameras shown on drawings.
	Cameras shown on the drawing are for information purposes only and will be provide by tenant.
	<p>Questions are listed as submitted, company names are withheld. This Addendum No. 2 includes Questions received through July 20, 2021 Any additional questions will not be responded to as the cut off for questions was July 20, 2021.</p>

