

**QUESTIONS FROM BIDDERS**  
**WATER TREATMENT PLANT & LAKE WYLIE INTAKE UPGRADE & EXPANSION TO 48 MGD**  
**FOR**  
**CITY OF ROCK HILL, SC**

**W&S Project No. 056-16-120**

**Bid Date: TUESDAY OCTOBER 31, 2017 @ 3:00 PM**

Update:

10/26/2017 10:06

<i>Question #</i>	<i>Question</i>	<i>Answer</i>
1	When will this project bid?	This project was advertised on September 1st, with a bid date of October 17, 2017.
2	Where can I find a copy of the bid form?	If you go to Duncan Parnel's website I believe the bid form is one of the available documents to all interested parties.
3	If I understand the ITB, you firm is the designer and as such will you want us to provide a proposal for the Construction Material Testing & Special inspections directly to you or will we need to submit to the prime contractors? If testing is by the Contractors, I will need a list of the contractors so that we can submit to each of them.	The Owner has arranged for a firm(s) to perform the SIs. The contractor is responsible for construction materials testing. Please refer to the Technical Specifications and to the ITB for availability of plans and specs.
4	How many MGD are you adding to this plant? What is the Engineers Estimate.	The plant capacity will be expanded by 12 MGD. Engineers estimate is Div.I \$10,000,000 and Div.II between \$30,000,000 and \$35,000,000.
5	Is there a pre-bid meeting for Rock Hill, SC -WTP & Intake Upgrade and Expansion to 48 MGD Project?	There is no pre-bid meeting.
6	Is there someone we should schedule a site visit with?	Please refer to Section 00100 - Instructions to Bidders of the project manual for information on scheduling a site visit. There is a minimum of 72 hours notification required before a site visit.
7	Spec Section 46 43 76 appears to be omitted from the specs in our hard copy or our PDF version we purchased. Has anyone else reported this?	The spec section was inadvertently left out of the specs and will be added by Addenda.
8	<p>Please note the following Technical Specification Sections are noted in the Table of Contents but appear to be missing from the CD and hard copy:</p> <p>01 75 50 Owner Furnished Generator Equipment            04 20 00 Concrete Masonry Unit (This is mislabeled, it is actually 04 22 00)            07 72 00 Roof Accessories            10 11 00 Visual Display Surfaces            22 05 23 General-Duty Valves for Plumbing Piping            22 47 13 Drinking Fountains            26 23 00 Low Voltage Switchgear            26 32 13 Diesel Engineer Generator Set            Division 27 – Communications (27 00 00 &amp; 27 10 00)            33 11 19 Fire Suppression Utility Water Distribution Piping            33 52 19 Diesel Fuel Distribution            46 43 76 Inclined Plate Settlers</p> <p>Appendix B Cover Sheet is included, but there is no information provided in Appendix B.</p> <p>Please review and advise at your earliest opportunity how these discrepancies will be corrected.</p>	All discrepancies will be addressed by addenda.
9	Please confirm that experience requirements as detailed in the project manual will be open to discussion with the owner.	Project experience is evaluated with the bid. However, the specified experience requirements will be discussed with the Owner.
10	Can you please provide me with a Plan Holders list for this job or tell me where I can find one.	Please go to the Duncan-Parnell bid room for the list of plan holders for the project.
11	Appendix E is empty.....please confirm TO BE SUPPLIED LATER.	Appendix E will be provided later by Addenda.
12	Drawing 18.DM.01 is listed as sheet 213 Of 441....should it not be sheet 264 Of 441? Please confirm.	Drawing 18.DM.01 will be corrected by Addenda.

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13	This being a State Revolving Fund Project, are Minority Outreach Documents and Forms required; Please confirm that they are not required.	MBE requirements are not a stipulation of the SRF loan.
14	There is a specification section 23 74 00 shown on the Bid Form and called out in the Table of Contents but there is not a Section 23 74 00 in the Specification Book.	Specification section 23 74 00 will be added by Addenda.
15	Beck actuators for the Rock Hill WTP project fall into two categories: (1) Existing Valve Retrofits and (2) New Valve/Actuator Assemblies. Please clarify who will be responsible for purchasing the actuators for the (1) Retrofits and (2) New Valves?	The rotatory actuators for new valves on this project are for the rate of flow controllers and are supplied as part of the rate of flow controllers for the project. Refer to Spec Section 40 92 43, Paragraph 1.1.D.3.e. The supply of the rotary actuators for the existing valve retrofits shall be selected by the manufacturer/contractor to best ensure successful installation on the existing valves.
16	On the bid bond, there is a space for Contract #, but no # shown. Please advise.	There is no contract number, use the PUR#886 instead to link it to the correct RFP.
17	On the Bid – section 00300 page 9 Item 20 refers to Specification Section 40 71 23. There is no section 40 71 23 in the Specification Book...should this be Section 40 91 00? Please confirm.	The spec section should be 40 91 00. This will be corrected by Addenda.
18	Drawing C.05 calls for sections of Storm Drainage Piping but there is no Drawing C.11.	This will be corrected by Addenda
19	There is an existing fence along most of the back of the site adjacent to the private drive but new fence is also shown in this areas. Please clarify.	<b>The location of the new fence is offset back from the existing fence, which is the reason for the new fence installation. Note, the fence/gates along the drive will also be revised from chain link to aluminium ornamental fence, which will be detailed for all new fence at the WTP. This was addressed in Addenda 5.</b>
20	Section 2.2.M for the chain link fence calls for 4,000 psi concrete for filling the holes with the fence posts but the detail for the double swing gate on 99.C.04 indicates the concrete is 3,000 psi. Which is required?	The concrete strength for filling the fence holes should be 3,000 psi minimum. The specification will be revised by Addenda 3 to 3,000 psi minimum.
21	General contractors have reached out to us about substituting a product out in their bid four our product. What is the process for this?	Substitution requests are not typically evaluated prior to bid but the specification lists substitutions, which are submitted by the GC for consideration during construction per Section 01 60 00.
22	What was corrected in Addenda #3?	Addenda #3 is to correct Addenda #2. It addresses changes to pages 2-1 through 2-12 of Addenda #2. No changes to drawings or specs included in Addenda #2 were made.
23	Do you have any idea of the size of the scope of repairs to materials and coatings? And, do you have any contractors that are prequalified for this project?	General contractors are not prequalified but a list of plan holders is available at Duncan-Parnell (www.dpibidroom.com). Refer to Section 07 16 16 and the bid form for the approximate scope of the concrete repairs.
24	Are there any CAD files available to contractors?	There are no CAD files available to contractors at this time.
25	Please reference Paragraph 1.5.A in Section 01 10 00 of the Technical Specifications. Please provide the normal working hours of the Owner and all legal holidays observed by the Owner.	Holidays Typically Observed by Owner: - New Year's Day - Martin Luther King Jr. Day - Easter - Memorial Day - Fourth of July - Labor Day - Thanksgiving - Christmas
26	Please clarify note at the Fuel Fill Containment Station on drawing C.07 Division 1.	This was clarified in Addenda 2.
27	The Chemical Building in Division 1 shows FRP Grating on the bid documents. A specification has not been provided for this required FRP Grating. Please advise.	It looks like the spec section was inadvertently left out of the specs and has been added by Addenda 2.

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28	Note one in the concrete testing section of drawing 11.S.00 states "Owner will employ and pay for qualified independent testing and inspection agency to sample materials, perform tests, and submit reports during concrete placement." Specification Section 01 40 00, Part 1.2.D states "The cost of all specified inspection and testing of materials, including the field testing of soils and concrete, shall be paid by the Contractor whether called for in this section or other sections." Please confirm who will pay for concrete testing for this project.	Testing requirements will be clarified in Addenda 4.
29	Appendix G includes a detail that appears to show the slab, sand and granular fill underneath the Filter Media, but this detail is not included in the plans. The cross sections shown on Sheet 11.M.04 Section F & H, Sheet 11.M.05 Section G, Sheet 11.S.04 Section C, 11.S.05 Section E&D show the area underneath the slab as void. Please confirm that a 4" sand layer and a 12" granular fill layer are beneath the 8" concrete slabs in the filter media locations.	The filter underdrain support system shall be designed by the filter equipment manufacturer and submitted to engineer for approval prior to construction activities. The final details for the structural support system to be designed by WesTech may differ from the details included in the proposal and should be confirmed with WesTech. However, the details for the underdrain support, which include sand & granular fill, are similar to the details that were constructed for other filters at the WTP.
30	Note 9 on sheet 11.G.01 references drawing 11.A.01, which does not appear to be included in this bid set. Architectural drawings begin on sheet 11.A.11 and stairwell sections are on sheet 11.A.41 but does not appear to include an elevation view of the curtain wall system for the Filter Building stairway. Please advise.	Note 9 on Sheet 11.G.01 was revised by Addenda #2 to refer to the A sheets. The stairs are shown on multiple sheets plans, sections, and elevation views.
31	Drawing 10.A.11 illustrates doors within the Gravity Filter stairwell but does not appear to include door details (i.e. door type, hardware sets and materials).	The Door Schedule will be added in Addenda #4.
32	A Room Finish Schedule is not provided for Area 3 (Chemical building) and Area 4 (electrical building) within Division 1. Please specify.	A Room Finish Schedule will be added to both areas in Addenda #4.
33	When the yard piping drawings indicate R.J. bends on a buried line, do the pipe joints need to be restrained also or only the fittings on this line need to be restrained?	Refer to the construction drawings, some piping is detailed with all joints restrained and for others the restrained fittings and minimum restrained lengths are noted on the piping plans.
34	Please clarify what type of DI pipe bell restraint will be allowed. Will TR Flex and Field Lok gaskets be allowed?  Also, please clarify which buried lines are required to be restrained.	Both types of restraints will be allowed. See spec section 33 11 13 for further details.  Refer to the construction drawings for the locations of restrained joint pipe and fittings.
35	Do DI flange joints require stainless steel bolts? 304ss or 316SS?	Refer to Section 33 11 13 - 2.1.A.6.e. for the material requirements for bolts & nuts for flanged connections.
36	Can you confirm that all wastewater piping (sewer & force main) is to be ceramic epoxy lined?  Is reuse piping to be cement lined?	The lining for wastewater piping will be clarified in Addenda 4.  Reuse piping is to be cement lined.
37	Buried and submerged bolts for flanged joints are required to be 316SS per spec 33 05 24. Are buried and submerged flange bolts for DI piping required to be 316SS? Are gaskets for DI air piping required to be EDPM?	<b>Unless otherwise specifically indicated on the drawings, below grade pipe and fittings shall be slip joint, restrained joint or mechanical joint and not flanged. There will be no buried flanges on this project. Submerged flange bolts for DI piping is not required to be 316SS.</b>  <b>Gaskets for DI air piping are required to be EDPM and will be addressed by Addenda #4.</b>
38	Do all DI drains require ceramic epoxy lining?	No. DI drains requiring ceramic epoxy lining are indicated on the drawings.
39	Where can information for Pipe Supports & Pipe Couplings be found in either the plans & spec?	Refer to sheet 99.M.01 for pipe support details.

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40	Reference Sheet 06.G.01 – Legend notes 3 and 4 referenced spec section 07 20 00. That spec does not appear to be in our bid set documents.	Note 2 & 3 reference section 07 20 00, these notes were revised by Addenda #2.
41	Is any existing steel that is required to be painted per the bid documents currently galvanized? For example in Area 10, the drawings call for the plaster ceiling to be removed and the metal joist to be painted. Since above the plaster ceiling can not be seen, we will need to know if the joists are galvanized so the proper prep work can be accounted for in the painting scope.	The details for cleaning and coating the existing roof joists above the plaster ceiling at Filters #1-#3 and also on the third floor will be clarified by Addenda #6.
42	Drawing C.03 shows details for the 6" concrete paving; there are no Transverse Expansion Joints shown...any guidelines for including them??	Drawing C.03 will be revised by Addenda #4 to include "Contraction joints at 10-ft. max. Transverse Expansion joints at 30-ft max."
43	The bid documents call for infill masonry and new precast to match existing. Please confirm there will be no custom color matching required for masonry and precast.	For the pre-cast panels, the vendor is responsible for the color match. The color and appearance of the panels should be close, but we don't expect a perfect match. For exterior masonry infill, the masonry should match the existing adjacent masonry finish, which will require the new exterior brick and mortar (see Section 04 21 00 – 1.4.E.3.c) to be stained to match the existing brick (color matching of stain is required); and on the water plant interior, brick would be natural red/orange color to match adjacent brick. The requirements for staining the exterior brick and mortar with a NawTone stain will be added by Addenda 4.
44	Reference Spec 07 42 13 – 1.4 – C – Metal Wall Panels – This section requires a Buy American Act Certification for the metal wall panels. If this same certification not also required for Metal Roofing?	Buy America will be required for the metal roofing and will be added by Addenda 4 to Specification Section 07 40 00.
45	Reference Spec 07 42 13 – 1.4 – D – Metal Wall Panels – This section calls for "Dade County Approval, Miami-Dade County Notice of Acceptance." Please confirm this is not applicable to the Rock Hill project.	This is not applicable for Rock Hill project and will be removed in Addenda #4.
46	Reference Sheet 23.A.81 – Finish Floor Notes – Note 7 – This note has "???" where it appears a detail callout should be located.	The note #7 will be revised by Addenda to "Provide epoxy flooring mfg's recommended installation at transition between epoxy and stained concrete."
47	On drawing 10.S.00 Note 1 under concrete testing says Owner will pay for CONCRETE TESTING yet the specifications section 01 45 33 requires the CONTRACTOR to pay for all testing...please review and advise WHO is responsible for the testing.	Please refer to Addenda #3, which clarified the requirements for the testing to be provided by the Owner and the testing that is the responsibility of the Contractor. This drawing and the note will be revised in Addenda #4.
48	Drawing 10.S.00 Note 1 under CONCRETE MIXES has different design strengths than Specification Section 03 30 00...which mix strengths will govern??	Notes on this sheet and concrete mix apply only to sheets 10.S.21, 10.S.31, 10.S.32 . This will be clarified in Addenda #4
49	Reference Spec 07 24 00 – EIFS – Dryvit Systems, Inc. – Infinity System is listed as one of the acceptable manufacturers/systems for this project. However after speaking with a Dryvit rep on 09/29, the Infinity system is an outdated system in the Southeast. The rep stated that Dryvit's equal to the basis-of-design would be the Dryvit – Outsulation Plus MD System. Please confirm this system is an acceptable substitution.	Spec section 07 24 00-2.2-B-1 will be revised to replace "Infinity System" with "Outsulation Plus MD System" in Addenda #4.
50	Where is the location of Section E on Drawing 11.S-05. I see section 1 and assume that is also E but want confirmation.	Section E on 11.S.05 is Section 1 on the plan views. Further clarifications to the Section views will be addressed in Addenda #4.
51	Drawing 11.S.00 – Same comment as note 1 above.	Please refer to Addenda #3, which clarified the requirements for the testing to be provided by the Owner and the testing that is the responsibility of the Contractor. This drawing and the note will be revised in Addenda #4
52	The specs or drawings do not indicate which lines are to be restrained. Please confirm that all process pipe shall be restrained except for drain lines.	Refer to the construction drawings, some piping is detailed with all joints restrained and for others the restrained fittings and minimum restrained lengths are noted on the piping plans.
53	Section 333113 calls for P401 lining on gravity sewers. Section 331113 calls for cement lining. Please clarify which systems are to have P401 lined ductile iron pipe and fittings. It is our interpretation that only gravity sewer should be P401.	The lining for wastewater piping will be clarified in Addenda 4.

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54	Can you clarify pipe class for buried DI pipe. For example, Pipe Profile 1, 48" to New Filters is DI. Should this pipe be min class 150 or min class 250?	Refer to Spec Section 33 11 13 for Pressure Class requirements for DI pipe/fittings.
55	We will be providing the contractors with pricing for the CLO2 Generator spec Section 46 31 33. My question concerns the room where the CLO2 Generator will be installed. Is this room climate controlled with HVAC?	The HVAC design is on H.01 of drawings including operating ranges. The temp. is maintained between 50 and 104o F.
56	For the rate of flow controller valves and the new Sed 5/6 Effluent valves, do the valve/actuator assemblies have to be tested as an assembly at the Valve Manufacturer's facility (i.e., Pratt or Val-Matic)?	Yes, the valve/actuator assemblies for the rate of flow controller valves and the new Sed 5/6 Effluent valves would be tested as an assembly at the Valve Manufacturer's facility.
57	Would you please provide the drawing number where I can find the sump elevations for the Neutralization Pump?	Please look at 03.M.05 in Area 3 at the Intake.
58	Where can the specs for the make up air units be found?	The specification for the make up air units was added in Addenda 1, which should be available from any GC that is bidding the project and at the Duncan-Parnell online plan room.
59	Drawing 03.S.03 calls for 8" hollowcore slab. Drawing 03.S.04 Calls for 6" hollowcore planks. Please clarify.	Area 3 (RWI Chemical Feed Bldg.) hollow-core slab should be 8" thick. This will be corrected in addenda #5.
60	Drawing 11.S.03 calls for 12" hollowcore slab in plan 3 and 8" in plan A. Please Clarify. Note 12" is not a standard size plank.	Area 11 (Filters 7-9 Building) hollow-core slabs should be 12" thick. 12" thick hollow core slab are common per PCI. They're required for this application due to the span of span of the slabs and roof equipment loading. This will be corrected in addenda #5.
61	The CD that was provided with the bidding documents seems to be taken of the diving in the clearwell at the Water Plant for Division 2 work. Could you please advise if any information for Division 1 is on the CD?	The CD only contains the inspection of the clearwell. No Division 1 work is on it.
62	Will this project require new or refurbished raw intake screening?	We are not doing any work related to the intake screens for this project.
63	If Division I & II will be bid on, do 2 separate bid forms need to be filled out?	In Section 00100 - Instructions to Bidders on page 5, there is language about completing the bid form. To bid both Divisions, you would just fill out one bid form accordingly.
64	Please reference specification 40 72 46. Paragraphs 3.1 and 3.2 on page 6 of 6 are indentified in the header as specification 25 31 12 – Air Bubbler Level. Can you please confirm that page 6 of 6 is a continuation of specification 40 72 46 or otherwise provide engineer's intent.	Page 6 of 6 is a continuation of specification 40 72 46 and has been corrected by addenda #2.
65	Reference drawings 03.M.01, 03.P.01 & 03.P.02. The "M" drawings call for a wall mounted emergency shower & eyewash and 03.P.01 shows a detail for wall mounted fixtures, but the plan view calls for "ESH-1" for all. ESH-1 is shown on 03.P.02 as a floor mounted unit. Please clarify your intent.	Drawings 03.M.01, 03.P.01 & 03.P.02, including details & labels, will be modified by addenda 5 to clarify the mounting position/type of the showers & eyewash station.
66	Referencing drawings 03.M.04, 03.CH.01, 03.M.03, & 99.M.01. Please define the limits of the use of Hastelloy as noted on 03.CH.01 for pipe supports. The "typ." Details on 99.M.01 referenced on 0..M.04 & 03.M.03 callout FRP anchors. Please define where hastelloy anchors are to be used.	At the chemical feed rooms in Area 3 the pipe supports should be made of FRP with Hastelloy C anchors. Hastelloy anchors are only required in chemical feed rooms in Area 3. The typical pipe supports on the misc. details sheet apply for everywhere else.
67	Is there any chance the owner will agree to add a unit price for rock removal?	Unit price will not be added for rock removal. With the bid date being pushed back per addenda #5, we are trying to get some additional geotech work done on site.
68	In the initial questions from bidders. # 19 states some differences in fence. Addendum 3 contained no additional information for fencing that I can locate as stated in the above mentioned answer. Please clarify.	Fence modifications can be found in addenda #5. Question #19 has been modified to reflect this.
69	Since there are 2 separate sites per the Division work, please clarify the intended area of the note pertaining to fencing changes.	Fence modifications as made by addenda #5 only affect Div. II (WTP) site.
70	Will the Engineer please provide a door schedule for Building #10?	This is added to 10.A.11 of Addendum 5.

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71	Will the Engineer please provide vertical dimensions for the curtainwall elevations at Building #11?	Vertical dims of the curtainwall were added to the sections on 11.A.34 of Addendum 2.
72	Will the Engineer please provide a complete elevation of the curtainwall CW2 at Building #23, or confirm the intent to use notched glass at one panel above the Level Two slab?	The elevation is complete. The intent is to use one notch glass panel; however, if not feasible, a horizontal mullion may be added at that notch location for that one vertical bay at the Entrance 114's top of parapet elevation (shown on section 2/23.A.32).
73	Please clarify piping material for 2" Air line between the Compressor in the Chemical building and the Hydroburst System on the Pump Platform as seen on 01.M.01, 03.M.03, 03.M.05, 03.M.06.	2" air line to pump platform is to be copper.
74	The 3-D view on 03.M.05 shows a pipe under the Wet Well pump but there is no pipe shown on the civil drawings for this area. Please confirm if this pipe is required.	That is shown in error. No pipe is required under the wetwell. This will be revised by Addenda.
75	Will the fuel fill and fuel distribution lines require heat trace and insulation? If required, should the area be classified as explosive?	No.
76	The oil water separator shown on drawing 05.M.02 is not referenced in the project Technical Specifications. Please advise.	There isn't a separate specification. Instead the equipment requirements are listed on 05.M.02
77	Please provide a detail of the access road upper ditch shown on C.05 (Division 1). There is a section on C.06 that indicates that the ditch gets stabilized with Rip Rap, but no indication of the details (thickness, type, fabric, etc.)	Specification Section 31 37 00 Riprap will be added by Addenda, which addresses the requirements for riprap.
78	The baffle wall at the sedimentation and flocculation basin shows 8" openings (see Section E on 09.S.06). If the contractor chooses to form those openings with PVC, will the PVC form material be allowed to remain in place after the wall forms are stripped?	Yes they could stay.
79	In reference to Appendix J of the Technical Specifications, the High Density Lime Silo Equipment by Merrick- will this be an owner procured and managed contract? Is there any associated work relative to this owner procurement that will need to be performed by the Division II general contractor?	The high-density lime equipment was purchased by the Owner. The equipment is onsite for installation by the contractor. Refer to the specifications for requirements for Owner furnished products and the Construction Drawings and the published Addenda for additional requirements.
80	Reference drawings C.07 & 03.CH.01, Note 7. Both drawings make reference to drawing 99.C.03 for further information/details of the chemical containment piping shown on C.07. I find no additional information on 99.C.03. Do the pull boxes have hatches, frame & cover? Please clarify.	Looks like this detail was inadvertently left off drawing 99.C.03, it has been added by addenda #5. Regarding the pull box, the model number for the pull box is listed on C.07. The box should include the companion lid with 4-SS fasteners and the lid should be factory labeled with "chemical". The clarifications will be included in an addenda.
81	Reference drawing C.07. The chemical pull box near the existing Surge Tank Valve Vault seems to dead-end with no information on a tie-in for the chemical piping. Please clarify.	The pull box does dead end just before the valve vault. Then the chemical feed pipe continues into the vault and that is detailed on 02.M.01.
82	Reference drawing C.07. Copper sample line from Area 2 to Area 6 is not detailed in Area 6. Please provide details of sample line in Area 6.	The copper sample line runs to a utility sink inside the Area 6 building. Refer to Addenda #5 for clarifications.
83	Reference drawing 03.M.01. There appears to be a floor drain shown in the Purate Containment Area, but there is no piping shown from this drain. Please confirm there is a drain in this area & provide piping layout.	The floor drain should be located at the end of the 4" CPVC pipe. Refer to Addenda #5 for clarifications.
84	Reference drawing 01.DM.03, Note 3. This drawing has a note "REFER TO DRAWING 03.M.04 FOR DEMOLITION AND EQUIPMENT TO BE RETAINED" and Note 3 under "CONSTRUCT IMPROVEMENTS...PLATFORM" that refers to the same drawing for construction sequencing. I did not find any of this information on drawing 03.M.04. Please provide instructions on where this information can be found.	These two notes should reference 03.M.06 instead. This will be corrected by addenda.

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85	Reference drawing 01.M.01, Section A. Can the contractor substitute a 4" flanged ball valve in place of the 4" "FULL-PORT" plug valve (this would be a 6" plug valve body w/4" flanges, i.e. a specialty)? Also, RWP-3 is shown with this isolation valve, but RWP-5 & -6 do not show this valve. Is this correct?	The valve should be a plug valve as specified, which matches the same type of valve installed on the existing pump #4. The proposed valves for pump #5 and #6 are obscured in the plan/section views for pump #5 and #6 but Section A indicates Typ of 3, which includes RWP #3, #5 and #6.
86	Can we substitute the proposed manholes for solid wall/knock out precast boxes? For example, MH-1G on the Division II portion, is listed as a 7' dia. MH. We see that a solid wall 4'x 5' junction box would work fine with this run of pipe.	The manholes for storm water should be as specified on the drawings, which match existing storm manholes installed on site.
87	On drawing 03.M.03 the hanging pipe supports are shown as the FRP uni-strut system referenced on 03.M.03 but on 03.M.04 are called out to be P.S. #3 which are the clevis style. Please advise as to which detail should be applied to the hanging pipe supports.	In chemical feed rooms the pipe supports need to all be FRP with Hastelloy C anchors. Per the detail on 03.M.03, Note 2, overhead piping can be supported by FRP clevis hangers and/or FRP cable trays.
88	Drawing 03.M.05 section F has a call out referencing concrete pavement in this area, but when looking at drawing C.03 the hatching for this area is the same as the stone base and topping called out around the generators. Please advise which is proposed in this location.	The concrete pavement callout on 03.M.05 is referencing the pavement in front of the pump station area. Around the pump station, as shown on C.03, is to be stone base as called out around the generators.
89	In regards to the bridge decking. On drawing 01.S.02 note 5 has the dimensions as 8"x3/8". Are the bearing bars to be 8" deep (this may not be available) or 8 bearing bars?	Yes, the grating bearing bars shall be 8" deep, and they are available from the named manufacturer, Ohio Gratings, Inc.
90	The 100-year flood elevation was not provided for Div. II site. Please provide 100-year flood elevation.	The site is not within 100-year flood zone. Groundwater elevation is shown in Section 33 36 31, paragraph 1.7.B.3.c.2.
91	Specification 33 36 31-2, Section 1.3 C1, references AWWA C652 – Disinfection of Potable Water Storage Tanks. Does the sludge thickener need to be disinfected?	No.
92	Specification 33 36 31-6, Section 1.7 C4, states that a minimum reinforcement ratio of 0.625% shall be used in the floor. The reinforcement ratio given is typically provided in floors using a mat foundation and floor thicknesses less than 10". It is an acceptable practice to reduce the percentage of floor steel from 0.625% to 0.50% when floor thicknesses are 12" or thicker. Please confirm that using 0.50% reinforcing steel in the proposed 12" minimum floor thickness is acceptable.	No.
93	Specification 33 36 31-9, Section 2.9B, requires that the seismic restraint cable strand shall be protected with a fusion-bonded, grit-impregnated epoxy coating. The epoxy coated cables mentioned are no longer available as a standard manufactured product. Crom has since modified its standard to use galvanized strand for seismic cables. Please confirm that galvanized cables for seismic strand is acceptable.	Does this mean epoxy coated cables are available but have a higher cost? What type of galvanizing is proposed?
94	Specification 03 10 00-5, Section 2.2 H4, requires that the vapor barrier shall be no less than 15 mil thick. Typically, a 6-mil thick vapor barrier is standard and sufficient for tank construction. Please confirm that 6-mil thick vapor barrier is an acceptable alternate.	6-mil is acceptable and will be changed by addenda.
95	Specification 05 05 19-2, Section 2.1B, states that expansion type anchors are not permitted. Specification 05 12 00-6, Section 2.7G, states that wedge and expansion type anchors bolts shall not be allowed. Specification 05 60 00-4, Section 2.2B 5e, states that wedge type or expansion type anchors bolts shall not be allowed. Crom's typical handrail details use 1/2" x 4 1/2" long 316 stainless steel expansion anchors to mount the flange. We also use 1/2" x 2 3/4" long 316 stainless steel expansion anchors to mount the toe-board angle brackets. Please confirm that 316 stainless steel expansion anchors are acceptable to use to mount the handrail.	Expansion anchors are not acceptable to mount the handrail.
96	Specification 09 90 00-27, Section 3.17C, provides coating System 134 for interior masonry and concrete surfaces. Please confirm if this coating system is required on the interior wall surface of the Sludge Thickener.	No, we are not coating the interior concrete – This will be clarified in the specs by addenda #5.

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**WATER TREATMENT PLANT & LAKE WYLIE INTAKE UPGRADE & EXPANSION TO 48 MGD**  
**FOR**  
**CITY OF ROCK HILL, SC**

**W&S Project No. 056-16-120**

**Bid Date: TUESDAY OCTOBER 31, 2017 @ 3:00 PM**

**Update:**

**10/26/2017 10:06**

<i>Question #</i>	<i>Question</i>	<i>Answer</i>
97	Drawing Sheet 20.S.02, shows an 8" thick x 4' wide top of wall walkway with perimeter side mounted handrail inside and out to provide a 4' clear distance between handrails. Would a 6" thick x 5' wide walkway with top mounted handrail be an acceptable alternate?	Yes, this would be acceptable.
98	Specification 26 05 26, provides grounding information. Drawing Sheet 20.E.01 provides electrical connections. Please confirm that lightning protection is not required for the Sludge Thickener tank. Bonding to any concrete encased tank steel is not recommended and shall not be allowed per the tank manufacturer. All bonding shall be done by using air terminals on the top of the tank wall with PVC conduit adhered to the exterior tank wall. Electrical grounding to the reinforcing of a prestressed concrete tank is prohibited by AWWA D110-13 per Section 5.16. Items requiring grounding, such as lightning protection, are required to be a separate system with its own ground connections. Excerpts of the referenced sections are provided below. <input type="checkbox"/> AWWA D110-13, Sec. 5.16 – Electrical grounding to non-prestressed reinforcing steel or prestressed reinforcement for any equipment or electrical service shall be strictly prohibited. <input type="checkbox"/> AWWA D110-13, Sec. 5.17 – Lightning protection, if required, shall be a separate system with its own ground connections.	Lightning protection is not required for the Sludge Thickener Tank. The grounding system will not be bonded to the concrete encased tank steel.
99	Crom requests that a new dome hatch be added to the tank where the existing concrete block baffle wall is to be demolished. A large opening in the dome is required to remove the block wall pieces that may be too big and heavy to remove through the wall manway.	Please see drawing 12.DM.01 for details pertaining to dome hatch size.
100	During our site visit we noticed that construction traffic (cranes and loaded concrete trucks) are going to have to pass in-between the high service pump building and clearwell #3 to access the new filter 7-9 building. The existing tank wall will need to be evaluated to confirm the adequacy to resist the construction loads.	Refer to Addenda #5 Drawing C.01 for Div. II.
101	Can someone check and confirm the 10 kip lateral load per pile? 1.2.B.3	Yes, the horizontal load is 10 kips per pile, or 80 kips for the pile group.
102	3.4.E.2 – Do not install piles within 20 feet of concrete or grout less than 48 hours old. - Looking at the micropile plan, we never have more than 20 feet between the piles. The sacrificial test pile is required to be installed 4'-0" from production piles. - If this is held, there is a chance we can only install 1 pile every 48 hours, can this be reduced to 8 or 12 hours? This would allow us to install a pile every day at a minimum. - With the compression test, we need to install a sacrificial pile and the reaction piles, if we set up the testing per ASTM, we would only be able to install 1 pile per day for the testing as well. Will this spec be held to the sacrificial and test pile since they aren't permanent? Or can they be installed at our own risk? - We could try to increase production by drilling several piles and grouting at the end of the day. With the heave specs, I assume if any crossover is noticed in a pile that hasn't been grouted, will we be required to stop. Not sure the risk is worth it on our end in this scenario.	The requirements of this specification paragraph also apply to the test piles. The time between grouting piles can be reduced to 12 hours if the same 12 hour time is used on the test piles, and the test is completed successfully. However, if the test is not successful, then the contractor shall install a new set of test piles using the minimum 48 hour time limit, and the contractor shall bear the costs for the replacement test piles. No cross over of grout between piles is permitted.
103	The spec says the total pile length is anticipated to be 150-200 linear feet, which translates between 18.75 and 25 feet per pile. Is this correct?	Yes, that is the anticipated total pile length. Please refer to the Appendix A - Revised Geotechnical Engineering Report Raw Water Intake 48 MGD Upgrade, dated December 15, 2016. Bores B-3 & S-3 were taken the location of the proposed surge tank.
104	Please reference Addendum 5 page ADD 5-7. Modifications to drawing 03.E.01 state that wire & conduit are to run from an Emergency Eyewash/Shower Alarm Panel. I am unable to find this Alarm Panel on 03.E.01 or 03.P.01. Please provide detail and location for this panel or otherwise provide engineer's intent.	It appears the Alarm Panel was inadvertently left off. This will be added by addenda.



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105	Can the value of the Owner Supplied equipment be broken down between Division I and Division II for Bond and Insurance purposes.	The value for Owner Supplied equipment for Div. I is \$1,612,382 & Div. II is \$467,618 for a total value of \$2,080,000.00.
106	Are there any incentives for hiring/buying locally for this project?	Refer to Instructions to Bidders in Project Manual, section 21 & 22. For additional questions regarding this contact Tracy Smith with the City of Rock Hill.
107	Note 3 on drawing 12.DM.01 states contractor is to remove and disposal of existing sediment and silt. Contractor is requesting this item be added to the bid form as a unit price item since there is no way to quantify this work. Please advise.	At this time, no changes are proposed to the bid form. Refer to the video of the underwater inspection of clearwell #1.
108	Please provide the structural drawings of the existing Administration Building and the existing Filter Backwash building for design of temporary support of excavation.	We will provide 2 partial sets of record drawings for the Administration and Filter Backwash buildings by addenda.
109	Paragraph 2.04 of Section 21 05 00 in the Technical Specifications state that pipe supports shall be Hastelloy C. Will a stainless steel substitution be allowed?	The use of stainless steel in the chemical building will be clarified by addenda.
110	We have spoken with Scott Trarick at Eaton regarding the medium voltage VFD pricing in the Appendix. He currently does not know of any Eaton representative looking at this project. He also stated that it is very unlikely that any sales representative would be willing to share his "sale" price with a General Contractor. Seeing how it is very unlikely that the mark-up value of these VFDs will be available to the General Contractors at bid time we respectfully request that an allowance line item for vendor markup be added to the bid form to ensure that all General Contractors carry the same cost.	We spoke w/ Scott and he doesnt believe there should be an issue w/ obtaining the additional costs/margins from an eaton authorized distributors for the MVVFDs. As such, no changes are planned to the bid form.
111	In review of the specifications, it is unclear as to who is responsible for the Owner purchased generator fuel for initial fill, testing, and start-up. Additionally, it is unclear as to who is responsible for the initial fill of the 10,000 gallon fuel storage tank. Please clarify who is to purchase and coordinate fuel for the Owner purchased generators and 10,000 gallon fuel storage tank.	Section 2.9 of the Diesel Fuel Distribution specification 33 52 19 states that the Owner shall fill the main tank with Diesel fuel. Refer to Addenda 1.
112	Please reference specification 08 71 00-2.1.N.3 (Door Hardware) which states the ISMS and associated equipment to be provided by the SDWCC will be provided for the project directly by the Owner. Paragraph 2.1.N.3.b states multiple items to be provided and installed by the SDWCC including providing the Casi Rusco Junction Boxes. Please reference drawing 99.E.04 Detail A which shows that the Casi Rusco Junction Boxes are to be furnished by the Contractor. Please clarify if the Casi Rusco Junction Boxes are to be provided by the SDWCC or the Contractor. Please confirm that the ISMS and associated services and equipment to be provided by a SDWCC will be provided for the project directly by the Owner as stated in Specification 08 71 00-2.1.N.3 or otherwise provide engineer's intent.	Casi Rusco Junction boxes are provided by the owner. Detail A notes to be modified by addenda.
113	Reference HVAC Schedule Drawing 99.H.03: On Exhaust Fan Tags: EF-22-01 through EF-22-08: Are these replacing existing Verantis or Ceilcote fans. Our goal would be to get the serial numbers from the existing fans to replicate them in fit and form. If yes, how could I get the serial numbers.	No – the existing fans were manufactured by MK Plastics. We do not have any serial number data for the MK Plastics fans. The units are located on the roof of the main plant's Chemical Building.
114	Reference HVAC Schedule Drawing 99.H.03: Exhaust Fan Tags: EF-22-01 and EF-22-02 in the notes require a mounted and wired VFD to use same signal as MAU. I cannot find any specs on what VFD to be used or what signal will be provided. Please advise. Section 23-77-00 Make Up Air Units is not in the spec. The only reference is the model number of the MAU in the schedule. I searched and could not find good data on the VFD output signal from my search.	Revisions to spec section 23 34 00 and drawing 99.H.03 will be provided by addenda. The makeup air unit specification for this work is actually identified as Section 23 74 00 - Packaged Makeup Air Unit. It was furnished with addenda 1.

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115	Reference HVAC Schedule Drawing 99.H.03: Exhaust Fan Tag: EF-22-08 - This fan requires a 2" static pressure. Can this requirement be verified? This requires the fan to run at a very high speed - close to exceeding the maximum RPM. As in item 1 - if the existing fans are existing we can match it if we have a serial number.	The existing fans that operate at a pressure of 2-inches water column are being replaced by new fans EF-22-05, 06 & 08 that operate at identical flow and pressure ratings. Please provide new fans to match the air flow and static pressure rating noted on the Fan Schedule without exceeding any fan's permissible operating air flow range or speed.
116	It was noticed during a site visit that the existing reuse water system is not currently heat traced or insulated. Per Technical Specification 22.05.33 Section 3.3 all exterior exposed water lines 8 inches and smaller shall be heat traced. Per Technical Specification 22.07.01 Section 3.3 all exterior exposed water lines shall be insulated and jacketed. Drawing 09.M.07 details the 4" and 6" D.I.P. shall be insulated, heat traced, and jacketed. Please confirm if the stainless steel pipe for the reuse water system shall be insulated, heat traced, and jacketed.	The exposed 2" and 1.5" SS pipe for the reuse system at the existing and new basins is not heat traced or insulated. This will be clarified by Addenda. All other exposed water lines 8" and smaller shall be heat traced, insulated and jacketed per the specifications.
117	Specification 26 23 00-3.5.A states that operational testing of the switchgear shall be performed at startup of the generators by the OWNER furnished manufacturer's field service representative. Paragraphs 3.5.C states that a qualified testing agency needs to be engaged to perform the field tests, inspections and reports. There are several tests and inspections identified in paragraphs 3.5.B thru 3.5.E. Please confirm that these tests and inspections are to be performed by the OWNER furnished manufacturer's field service representative or otherwise provide engineer's intent.	All of the tests in 3.5B through 3.5E shall be the responsibility of the contractor.
118	32 31 13 Section 2.2 L (1-3 aluminum Alloy Frame) vs a Standard Round Tubular gate. The cost here is significant enough to ask that the style be clarified. The existing gate at Division II entrance is the Round Tubular Cantilever style. Please Clarify style.	The gate style shall remain as specified in section 2.2 L.
119	32 31 13 2.2 C 2 Fence Mesh. The 6 gauge specified with thermal fused coating making it 5 gauge is highly irregular and costly. Please verify intent.	Fence mesh gauge to be modified by addenda.
120	32 31 13 2.2 Please clarify that the intent is to have Y type with 6 total strands of wire (3 facing both sides) is the intent.	That is the intent.
121	Is it possible the owner will direct contractor to re-install gates from Division I to Division II? Or also to reuse any operators?	No gates will be reinstalled from Div I to Div II or reuse operators.
122	Appendix C, EESS SAT scope references specification 26 18 39...should be 26 18 38	The specification # for the MVVFDs is numbered 26 18 39 and the reference in the scope is an incorrect reference to the wrong VFD specification for the MVVFDs but the startup services will be as specified in Part 3 of 26 18 38.
123	Appendix C, EESS SAT scope does not itemize out the Vibration analysis and Harmonic Analysis. We have assumed that it is included in line item 4 "Customer Specialized Acceptance Testing". Please confirm.	Refer to Addenda #5 - the frequency skipping/vibration analysis is provided by Eaton through a third party (MDI) and is separate from the EESS SAT scope. The costs are broken out separately. The construction sequencing will necessitate that vibration/frequency testing will need to be completed in multiple trips for the VFDs to be placed in service at different times. The initial trip for frequency skipping/vibration will be billed at \$2,634.06 and a subsequent trip will be billed at \$1,998.13.

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124	<p>The updated pricing provided with Addendum 5 leads to the following questions:</p> <p>a. The monetary amount for the RWPS VFD's on the bid form (\$263,761.47) appears to include the engineering services, six VFD's, freight, and sales tax (\$259,522.91) plus an additional "FOB Jobsite/Destination to Water Plant on Cherry Road in Rock Hill, SC" line item (\$4,238.56). We are unsure what the additional freight charge is for? Are we to expect the VFD's to be delivered to the RWPS jobsite or to the WTP? IF they are delivered to WTP, where are they to be stored?</p> <p>b. Eaton has priced the suggested spare parts list as required per 26 18 38-1.03.B.9. However, I do not see that they have included the specified spare parts per 26 18 38-2.04.A (specified spare parts to be included are different from the Eaton priced recommended spare parts) as part of the priced package. Please clarify if spare parts, per paragraph 2.04.A, are required to be included in Eaton's price and if they are indeed included in their price of \$263,761.47. If necessary, please revise the pricing to include specified spare parts.</p>	<p>a. The FOB destination price (\$4,238.56) ensures Eaton has all responsibility of the shipments until they are offloaded at the job site. If anything goes wrong during shipment, they are responsible. If this option is not exercised, the shipment will be FOB point of shipment which is included in the price. The FOB Jobsite/Destination should have referenced the intake and not the WTP. Shipment is to the intake.</p> <p>b. No spare parts are required.</p>
<b>NOTES:</b>	<p>1. Company Names and Trade Names have been removed from the questions. The answers contain trade names only to refer to existing installations. These inclusions do not represent an</p> <p>2. Questions from sales representatives have been edited where appropriate for brevity.</p> <p>3. Questions from General Contractors have been left untouched.</p> <p>4. Significant Changes in answers previously posted are marked in red.</p>	