

ADDENDUM No. 8

MBWWTP SOLIDS PROCESS OPTIMIZATION IMPLEMENTATION PHASE 2 THICKENER UPGRADES CONTRACT NUMBER W-16-017-201

CITY OF CHATTANOOGA, TENNESSEE

The following changes shall be made to the Contract Documents, Specifications, and Drawings:

- Contractor Question:** Please reference addendum 5 item 42. A pipe schedule was added which shows the Exposed Pressure and Gravity ductile iron pipe to be "Mechanical" joints. However the drawings remained unchanged indicating flanged pipe in the sludge pump station and sludge thickener 1 & 2. Please clarify if "Mechanical" joints are required for exposed ductile iron pipe. If "Mechanical" joints are required, is it the engineer's intent for the joint to require grooved end pipe w/ victaulic couplings or mechanical joint piping with megalugs.

Response: Exposed pipe should be flanged. Pipe schedule is revised below.

- Revise Specification 40 05 19 with the following:**

Part 3.02.B: Delete the pipe schedule provided in Addendum 5.

Replace with the following revised pipe schedule:

Pipe Description	Type	Joints	Lining	Bolts & Nuts
From north primary sludge pumps	Buried pressure	Restrained	Protecto 401	Cor-Ten Corrosion Resistant
From south primary sludge pumps	Buried pressure	Restrained	Protecto 401	Cor-Ten Corrosion Resistant
Thickened Sludge PS #1 to Gravity Thickeners	Exposed pressure	Flanged	Protecto 401	304 SS
Thickened Sludge PS #2 to Gravity Thickeners	Exposed pressure	Flanged	Protecto 401	304 SS
From Gravity Thickeners #1 & #2 to Thickened Sludge PS #1	Exposed gravity	Flanged	Protecto 401	304 SS

From Gravity Thickeners #3,#4 & #5 to Thickened Sludge PS #2	Exposed gravity	Flanged	Protecto 401	304 SS
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3. **Contractor Question:** Please reference Addendum 7 item 7. 40 05 62-2.02.C has been deleted in its entirety. The actuator manufacturer was specified in 2.02.C.6 and I am unable to find valve electric operator manufacturer information in 40 05 51. Spec 40 05 51-2.01 states to refer to individual valve specification sections for acceptable manufacturers. Please clarify if the Owner or engineer have basis of design or pre-approved valve electric actuators or are we to provide actuators to meet the supplied specifications.

Response: See revisions to 40 05 62 within this addendum.

4. **Revise Specification 40 05 62 with the following:**

Add the following as Part 2.03 and adjust the proceeding numbering:

“2.03 Motorized Actuator

A. Acceptable Manufacturers:

1. Beck
2. Rotork
3. Limitorque LQ Series
4. EIM P Series

B. Materials:

1. Cast iron construction
2. Flanged ends, ANSI B16.1 class 125
3. Not used
4. Buna-N stem packing
5. Extended neck (as indicated on the drawings)
6. Auma electric motor operator for open/close service, to match motor operators already installed in the plant.
7. 120-volt, 1PH main service
8. NEMA 4x submersible for 30 minutes
9. Auma motor control package
10. Integral control station of pushbutton, lights and selector switches”

5. **Contractor Question:** Quoted lead time for GT equipment required for this project are averaging 6 weeks to receive submittals, 2 weeks for Contractor review, 4 weeks min for Engineer review (01 33 23 3.03 A1) and 20 weeks for fabrication and delivery. This equates to 32 weeks before we can expect to have equipment onsite to begin placing the first two thickener tanks back in service. Will this project have a delayed NTP or will additional contract time be added to the contract for lead time of equipment?

Response: Contractor will prepare construction schedule based on critical path equipment lead times. Schedule will be discussed at preconstruction meeting and may be adjusted if proof is presented that contract schedule cannot be met due to equipment delivery schedules.

6. **Contractor Question:** Reference Sheet 01S-08 Photo 52. Will this work be covered by one of the unit price pay items or will this be considered a part of the lump sum bid?

Response: Item is part of the lump sum bid Item 1.

7. **Contractor Question:** Has an NOI and SWPPP been submitted and approved or will this be a responsibility of the Contractor.

Response: It is anticipated that a NOI & SWPPP through TDEC is not required at this time. For Erosion Prevention and Sediment Control a Land Disturbance Permit is required from the City of Chattanooga. This permit has been submitted already and is in process. The Contractor will be responsible to sign-on to the land disturbance permit and pay the required fee. In accordance with the Contract Documents the Contractor is responsible to obtain and pay the fees for any and all permits which may also include a Demolition Permit and Building Permit from the City of Chattanooga.

8. **Revise Contract Drawing 00G-03 with the following:**

Revise the general notes at the bottom left corner under "SURVEY DATA". Delete note 1 and replace with the following:

"TOPOGRAPHIC DATA AND ELEVATIONS ARE FROM THE CITY'S GIS DATABASE, TAKEN FROM FACILITY RECORD DRAWINGS, AND SUPPLEMENTED WITH MANHOLE AND VALVE VAULT DEPTHS OBSERVED IN THE FIELD."

Revise Note 14 under EROSION CONTROL with the following:

Delete "15 days" and replace with "14 days"

Add the following as Note 19 under EROSION CONTROL:

"GROUND STABILIZATION SHALL BE ACHIEVED CONSISTENT WITH TDEC GENERAL NPDES PERMIT. WHERE LAND DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, ALL DISTURBED AREAS SHALL BE PROVIDED WITH TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER WITHIN 14 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY EXCEPT FOR ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1 (H:V), WHICH SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER WITHIN 7 CALENDAR DAYS FROM THE LAND DISTURBING ACTIVITY. THE CONTRACTOR SHALL REFER TO TDEC GENERAL NPDES PERMIT FOR SPECIFIC CONDITIONS, EXEMPTIONS, AND DEFINITIONS FOR MEETING THESE STABILIZATION REQUIREMENTS."

9. Revise Contract Drawing 00C-04 with the following:

Add the following to the drawing along the bottom:

"General Notes:

1. SEE EROSION CONTROL GENERAL NOTES ON SHEET 00G-03.
2. SITE AREAS TABLE:

Construction Limits	3.14 AC
Total Disturbed Area (Construction Laydown)	0.80 AC
Existing Impervious Area	0.90 AC
Total Proposed Impervious Area:	0.90 AC

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- 10. Contractor Question:** Reference specification 04 01 20 masonry cleaning. What are the limits of cleaning required by this specification?

Response: Section 04 01 20 is the cleaning process required for areas where new masonry is installed.

- 11. Contractor Question:** Reference specification 43 24 16 Pumping Equipment Sump. It appears Ebara does not have a pump that will meet this specification. Will an Ebara Model 50DWX6.4, 1/2 hp, 3500 rpm, 460/3/60 submersible pump be acceptable, as they are the only named manufacturer.

Response: The requirement for Ebara is being removed and replaced with a Little Giant brand pump. See specification revisions within this addendum.

12. Revise Specification Section 43 24 16 with the following:

Part 2.02.A.1.a: Delete "Ebara" and replace with "Little Giant 620206 Model# WS100HM-34"

- 13. Contractor Question:** Specification 26 29 23, page 27, this Specifications requires 1 complete spare drive. Is this one spare per size? Or just one of either size.

Response: One spare VFD per size is required. See the revision to 26 29 23 within this addendum.

14. Revise Specification Section 26 29 23 with the following:

Part 2.10.A.1: Insert "per size" after the word "VFD"

March 12, 2018

/s/ Justin C. Holland, Administrator
City of Chattanooga
Department of Public Works