

ADDENDUM NUMBER 2
For
FRIDLEY SOFTENING PLANT
RECARBONATION IMPROVEMENTS

City of Minneapolis Official Publication No. 8326

CONTRACT DOCUMENTS

City of Minneapolis Department of Public Works
Division of Water Treatment & Distribution Services

CH2M HILL Project Number MSP/668830

FROM: CH2M
1295 Northland Drive, Suite 200
Mendota Heights, MN 55120

TO: All Plan Holders

DATE: August 5, 2016

The following changes, additions, and deletions are hereby made a part of the project Bidding Requirements and Contract Documents as fully and completely, as if the same were set forth therein. Acknowledge receipt and acceptance of this Addendum in the space provided on the BID FORM. Failure to do so may result in rejection of the Bid.

ADDENDUM 2

Acceptance of this Addendum shall be recorded on the Bid Form, 00 41 00.

SPECIFICATIONS

1. 00 73 00 (p. 00 73 00-5) Paragraph SC-5.06.A Revise to read:
"Contractor shall purchase and maintain property insurance upon the work at the Site in the amount of the full replacement cost thereof. The City estimates the replacement cost for the section of the building near the work to be in the range of \$25,000,000. This insurance shall:"
2. 32 14 13 (p. 32 14 13 -4) Paragraph 1.03.D.2. Revise to read:
"2. Laboratory test reports certifying compliance of the concrete pavers with ASTM C 936"
3. 32 14 13 (p. 32 14 13 -2) Paragraph 2.01.B. Revise to read:
"B. Permeable Interlocking Concrete Paver Units:
1. Material Standard: Comply with ASTM C 936."

2. Color: Timber Wood Blend.
 3. Color Pigment Material Standard: Comply with ASTM C 936.
 4. Size: 4 in. x 8 in. x 2 ¼ in. minimum thickness.”
4. 44 44 13 (p. 44 44 13 -6) Paragraph. 2.04.G: Delete in its entirety and REPLACE paragraph. 2.04.G. with the following text:

“The storage tank shall be protected from being subjected to pressures greater than the maximum allowable working pressure by means of two ASME approved safety relief valves operating in parallel with a three-way switching valve, two local pressure indicators, and two bleeder type relief valves.

1. Manufacturer/Model:

- a. As recommended by Carbon Dioxide Storage Tank Supplier.”

DRAWINGS

5. Sheet 50 Drawing FE10494-003. Revise Key note 5 to read, “TO EXISTING LENEL SYSTEM IN MEZZANINE LEVEL OF PUMP STATION 6.
6. Sheet 51 Drawing FE10494-004. Revise Key note 1 to read, “TO EXISTING LENEL SYSTEM IN MEZZANINE LEVEL OF PUMP STATION 6.

Answers to Questions

7. Question: Does the stainless steel pipe need to be pickled passivated and annealed after the welding is completed on the new stainless steel lines?

Answer: SECTION 40 27 00.09 requires passivation of the completed welds. See ASTM A380 for guidance. ASTM A312 pipe is an annealed product. Also note that heat tint at the weld and heat affected zone needs to be No. 3 or less in accordance with AWS D18.2 otherwise those areas will be subject to corrosion..

8. Question: I am trying to clarify what instrumentation isn't being furnished by equipment manufacture shown on the PLC I/O list.

Answer: The contract documents provide the scope of supply of the full project. It is the responsibility of the general contractor to coordinate the scope of supply of each subcontractor.

9. Question: 32 14 13 Permeable Interlocking Concrete Pavement. There is a reference to ASTM testing requirements in Part 2. 2.01 that shows ASTM C 1272, this is not the correct reference for concrete unit pavers, it should be C 936. Can you clarify that we are acceptable by following 936 as a concrete paver manufacturer? We wanted to verify this and that they want a concrete unit permeable paver, like our Willow Creek Brickstone Permeable?

Answer: Specification 32 14 13 has been revised in this addendum to reference ASTM C 936.

10. Question: Please see the request below from our bonding agent. Having to provide Builders Risk for the project is one thing but it's a very large upcharge to include BR for an additional 25 million...are we sure this is correct?

Answer: The Builder's Risk shall be \$25 million according to the supplementary condition 00 73 00 Paragraph SC-5.04.C.6. This is based on the value of the work performed combined with the value of the portion of the building where the construction activity will take place.

11. Question: Can you be more specific about what gets painted and what doesn't?

Answer: The contract documents show the scope of work for the entire project. The bidder needs to determine the painting scope based on the contract documents.

12. Question: Would a vacuum jacketed carbon dioxide storage tank be considered an equal or a substitute according to specification 44 44 13?

Answer: In accordance with specification 44 44 13 a vacuum jacketed tank would be considered a substitute and would therefore only be considered after the Effective Date of the Agreement per paragraph 26.1 of Section 00 21 00.

13. Question: Drawing sheet 16, note #1 states to remove the embeds per a detail on sheet 18. There is no detail or information for sheet 18.

Answer: Key note 1 reads "FOR REMOVAL OF EMBEDDED ITEMS, EXPOSED REBAR AND CONCRETE ANCHORAGES SEE DETAIL ON FS10494-005." There is no reference to sheet 18.

14. Question: The details F & G on sheet 26, show how to add water stop at the ties in the wall. But there is no detail or information on a water stop at the perimeter at the in-fill walls. There are 12 locations for this.

Answer: Waterstop is not required on the infill walls.

15. Question: Section A on sheet 25, are these in-fills at the bottom of the walls just below the stop logs frames? Or are we remove the stop log frames and in-fill where these are?

Answer: Section A is a view of the serpentine wall not the in-fills. See plan view on same page for location of section cut.

16. Question: Can you provide a detail and an elevation for the 3' fabricated platform on sheet 23?

Answer: Contractor to coordinate the height of the platform with the tank vendor and fabricate according to specification 05 50 00

17. Question: Would a direct carbon dioxide gas diffuser system be considered at this point?

Answer: A direct carbon dioxide gas diffuser system will not be considered at this point. The carbon dioxide feed system was analyzed thoroughly through pilot testing and preliminary design.

18. Question: You have a Structural Repair Assessment from Braun but we don't have any repairs associated with this project correct?

Answer: There are no repairs associated with this project.

19. Question: Section 2.03.B.2.a – Will you please clarify the content required in the referenced drawings and calculations?

Answer: Calculations showing the velocity and headloss across each orifice at the expected range of operating conditions will be required.

20. Question: Section 2.03.J.5 – This paragraph calls for an Allen Bradley Powerflex 70 AFD. May either a Powerflex 525 or 755 be substituted?

Answer: All or-equal and substitute requests will be considered after the Effective Date of the Agreement according to paragraph 26.1 of Section 00 21 00

21. Question: Section 2.03.J.13 – This paragraph calls for an Apollo 19 series safety relief valve. May a Kunkle 919 be substituted?

Answer: All or-equal and substitute requests will be considered after the Effective Date of the Agreement according to paragraph 26.1 of Section 00 21 00

22. Question: Section 2.04.A.1 – Where referenced specification section and this spec conflict, which shall govern?

Answer: Discrepancies in the contract documents will be handled according to General Condition 3.03.

23. Question: Section 2.06.C – Is the intent that one each of the replaceable wear components be included as spares?

Answer: Yes, the intent is that one each of the replaceable wear components be included as spares.

24. Question: Drawing FG10494-012 states in the top right corner that items displayed with double asterisk, **, are to be provided under division 16, electrical.

Answer: Legend sheets are general in nature and may include symbols that are not utilized on the project. The contract documents provide the scope of supply of the full project. It is the responsibility of the general contractor to coordinate the scope of supply with each subcontractor.

25. Question: Is asbestos abatement the contractor's responsibility?

Answer: Yes, asbestos abatement for the areas identified in Appendix C are the contractor's responsibility.

26. Question: Are we required to use stainless steel pipe supports throughout the entire project, or can we use carbon steel supports with a stainless steel isolation band?

Answer: The contractor will be required to provide pipe supports as specified in section 40 05 15 section 2. Per section 40 05 15 paragraph 2.01 C the material of construction of the pipes supports shall be 304 stainless steel unless otherwise noted.

Attachments

27. Pre-Bid Meeting Summary

28. Pre-Bid Sign-in Sheet

END OF ADDENDUM

Pre-Bid Meeting

Minneapolis Water Works (MWW)



ATTENDEES: See Attached Sign-in Sheet

MEETING SUMMARY DISTRIBUTION TO: Attendees, Doug Lubben/CH2M, Project File

PREPARED BY: CH2M and MWW

MEETING DATE: August 2, 2016

Referenced Attachments

- Sing-in Sheet

Meeting Summary

- 1) Li Zhang introduced the project team.
 - a) Li Zhang from Minneapolis Water Works is the City's Project Manager.
 - b) Kevin Jaijairam from the City of Minneapolis Office Civil Rights Office will be the Contract Compliance Officer.
 - c) Roger Scharf from CH2M is the point of contact for the Engineering Firm.
- 2) Kevin Jaijairam provided an overview of the requirements during bidding and after the contact is awarded under both the base bid (PFA funding) and Alternate 1 bid (no PFA funding).
- 3) Roger Scharf provided an overview of the four major elements of the project:
 - a) Procurement and installation of two new carbon dioxide storage tanks
 - b) Procurement and installation of three new pressurized solution feed (PSF) systems
 - c) Modification to the existing recarbonation basin to improve flow pattern
 - d) Removal of existing carbon dioxide storage tanks and feed system
- 4) Roger Scharf provided an overview of the project coordination.
 - a) All work inside and outside the Fridley Softening Plant will require coordination with the owner as the facility will remain in service throughout the construction project.
 - b) Work on the north and west exterior of the building will require additional coordination as noted on sheet FG10494-004.
- 5) Roger Scharf reviewed the project sequencing requirements, as described in Specification Section 01 31 13 paragraph 1.04.
- 6) Roger Scharf noted, per the bid form, substantial completion shall be reached 320 days from the notice to proceed and the project should be completed and ready for final payment after an additional 49 days.
- 7) Roger Scharf noted the key upcoming dates:
 - a) Questions Due: August 3, 2016 at 4:00pm
 - b) Last Addendum Issued: August 8, 2016 before 4:00pm
 - c) **Bid Due Date: August 11, 2016 at 10:00am at
City of Minneapolis Purchasing Department
330 Second Avenue South - Suite 552**

Minneapolis, MN 55401

- 8) Roger Scharf reviewed the bidding requirements with the group.
 - a) The attachments to the bids are listed in paragraph 7 of specification section 00 41 00.
 - b) The base bid shall include the requirements associated with PFA funding as noted in specification section 00 43 40.
 - c) Alternate Bid No. 1 is the lump sum price for the work without the PFA funding requirements.
 - d) Alternate Bid No. 2 is the amount to be added or deducted from the lump sum base bid or lump sum alternate bid for micro pile foundations for the carbon dioxide storage tanks as described in specification section 31 43 00.
- 9) Verbal answers and questions are provided below.
- 10) Following the meeting, the group took a walk through of the project site. The walk through was completed at approximately 11:45 am.

Summary of Questions

Question #1: Does the city include veteran owned or disabled person owned businesses in the Small and Underutilized Business Program?

Answer: No, at this time this program only includes Minority-Owned Business Enterprises and Women-Owned Business Enterprises.

Question #2: How long can both recarbonation basins be by-passed?

Answer: As noted in 01 31 13 1.04.B.4 Both recarbonation basins may be bypassed for one (1) 14 day period to complete the work on the western weir wall in the south recarbonation basin. This work shall be scheduled between October, 2016 and April 2017.

Question #3: How long can the softening plant be shut down to install the "R" conduit feed point diffuser?

Answer: As noted in 01 31 13 1.04.G.1.a, the maximum duration of a full plant shut down will be 16 hours (including 10 hours to drain the conduits).

Question #4: Has the procurement timeline been taken into account?

Answer: Yes, the procurement of the CO₂ tank and feed system was discussed with the vendors during design.

Question #5: Does each tank have a fill connection?

Answer: Yes, as shown on FM10494-001, both tanks have fill connections.

Question #6: Are the recarbonation chambers considered to be confined spaces?

Answer: Yes, the recarbonation chambers considered to be confined space. The Minneapolis Confined Space Entry Program is included in section 01 35 23.

Question #7: Can work be completed outside of the working hours listed in the specification for the in basin work?

Answer: Yes, the owner will work with the contractor to establish working hours that enable the work to be completed in the specified timeline.

Question #8: Where can the water from dewatering be pumped?

Answer: The water from the north recarb basin can be pumped to the south basin. The water from the south recarb basin can be pumped to the north basin. When both basins are out of service the water can be pumped to the far east end of the recarbonation basins.

Minneapolis Water Works

Fridley Softening Plant Recarbonation Improvements

Pre-bid Meeting

August 2, 2016

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