



MANATEE COUNTY
FLORIDA

January 15, 2013

TO: All Interested Bidders
SUBJECT: Invitation for Bid # 12-3098-DS
SEWRF Lake Filtration System Replacement

ADDENDUM # 4

Bidders are hereby notified that this Addendum shall be acknowledged on pages 00300-1 of the Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgement of the Addendum will be considered incomplete.

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

The deadline for clarification of questions was **January 4, 2013 at 3:00 pm.** This deadline had been established to maintain fair treatment of all potential bidders, while maintaining the expedited nature of the Economic Stimulus that the contracting of this work may achieve. Questions received after this date and time shall not be considered.

Contractor Questions and Responses:

Question 1: What are the water elevations in East Lake and South Lake #2?

Response 1:

Information related to design of cofferdam systems is provided in Section 02221, Trenching, Bedding and Backfill for Pipe of the Specifications. See related updates to this Section in Addendum No. 2.

Question 2: Can the water levels in the lakes be lowered any for construction and if so how much?

Response 2:

See response to Question No. 3 in Addendum No. 2.

Finance Management Department
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Question 3: What are the elevations of the following?

Response 3:

- 1) 36" BFV @ N. 1139428.67; E. 509981.53 (Sheet C-03)
- 2) 36" 45 Bend @ N. 1139434.20; E. 509925.84 (Sheet C-03)
- 3) 36" 45 Bend @ N. 1139433.47; E. 509972.14 (Sheet C-03)
- 4) 36" Tee @ N. 1139421.19; E. 510099.33 (Sheet C-03)
- 5) 36" BFV @ N.13673623.90; E. 6120115.36 (Sheet M-02)

Question 4: The detail showing the transition between new and existing pavement on page c-07 is showing a 12" stabilized sub-base with 8" of crushed concrete base and two inches of type s-1 asphalt. (Typical for Manatee County road building) The typical roadway section (type b) below is showing a 6" crushed stone base with 6" dense grade aggregate base and then putting 3 1/2" asphalt base and putting a 1" surface course. What is 6" crushed stone base and 6" dense grade aggregate base? And which detail are we to follow?

Response 4:

Use detail 1/C-02/C-07 for installation of asphalt road.

Question 5: What is the permit fee for the building permit?

Response 5:

The initial building permit application was submitted to the Manatee County Building and Development Services Department and \$300 of the estimated total \$475 fee was paid. The Contractor will have to coordinate with the Manatee County Building and Development Services Department to finalize the permit and pay the remainder of the fee.

Question 6: Specification section 15100-21 C. 2. requires flexible couplings next to every buried valve. This requirement is not show or noted on the drawings. Please clarify.

Response 6:

Flexible couplings will not be required next to buried valves, unless shown on the drawings.

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Question 7: With the time constraints regarding the construction of the lake filter structures, Base Bid B would almost be impossible to construct. 365 days is pushing it to complete this project and that is contingent on working double shifts. I would like to suggest Base Bid A be 425 days and Base Bid B be 365 days.

Response 7:
Bid project according to current bid forms.

Question 8: Will working overtime (double shifts) be allowed on this project?

Response 8:
Section 01310, Construction Schedule and Project Restraints, identifies the typical working hours for the Contractor and allows the Contractor to coordinate with the County on working beyond the identified hours. Contractor's bid price should reflect requirements identified in Section 01310 (7a.m. through 7p.m), additional time beyond this period is solely at the County's discretion.

Question 9: How long is the turnaround time on the building permit? We would want it pretty quickly if we are to start immediately after NTP to meet the time constraints on the lake filter structure.

Response 9:
The turnaround time for the building permit will be determined by the Manatee County Building and Development Services Department. The application and drawings were submitted to the Building Department prior to bidding. Typically, the contractor can pay the remaining fee and pickup the permit within the same day. However, contractor should contact Manatee County Building and Development Services Department to confirm.

Question 10: At the entrance to the plant there is a sign and two poles with a wire 14' off the ground that states Clearance is only 14' because of high voltage lines. And at the entrance to the landfill there is a metal opening which only permits vehicles 14' and lower. I could not find another entrance to the site while on property. Is there another entrance where there are no high voltage lines since there will be major equipment such as cranes that need to be transported to the site that will be over 14' tall? If not how are we to transport equipment into the site?

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Response 10:

These limitations are as-is and site deliveries and equipment will have to accommodate them. The 14.0' can accommodate most vehicles and construction equipment.

Question 11: Concern has risen over enough time to get one of the two lake intakes up and running before June 1st per addendum #2. Considering award at the end of February, that leaves 3 months of building schedule for one of the two intakes. That does not leave enough time to get soil borings, design, sheeting, and construction of the two intakes. Please advise.

Response 11:

Bids should be based upon the June 1st deadline.

Question 12: Spec 16131 (Spec 16131 (page 1) 1.1 - A. 3. b - Requires PVC coated conduit in hazardous, wet and corrosive areas. Is the Hypochlorite Building interior considered either?

Response 12:

The interior of the hypochlorite building is considered a wet and corrosive area. Provide PVC coated rigid conduit on the interior of the hypochlorite building.

Question 13: Spec 16131 (page 1) 1.1 - A. 3. f - indicates rigid conduit for all PMCS and SCADA Systems in all installations - Is this only for the conduits housing Fiber Optics cables or for all (underground and exposed) conduits that contain low voltage signal or digital controls must be PVC coated conduit?

Response13:

Rigid steel conduit shall be used for PMCS, SCADA, and communication systems for both underground and exposed installations. Conduit shall be PVC-coated rigid for exposed installations in hazardous, wet, and corrosive locations. Conduit shall be PVC Schedule 40 for installations in concrete encased ductbanks.

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Question 14: Spec 16131 (page 1) 1.1 - A. 3. c - mentions underground 'direct buried' conduits. Are there any 'direct buried' conduits allowed on this project or shall ALL underground conduits be treated as a traffic rated or Non traffic rated ductbank (including single conduit runs)?

Response 14:

Direct buried conduit can be utilized for the light poles, between existing pull box 3 and gravity disc filter control panels, scada panel 3, backwash pump control panel, and from the residual CL analyzer to the existing panel "L4". Direct buried conduit shall be PVC coated rigid steel per Section 16131, Rigid Conduit, and must meet backfill and excavation requirements in Division 02.

Ductbanks are identified on E sheets and shall be determined to be traffic or non-traffic rated based on Note 1 on Sheet E-04. Ductbanks shall be per Traffic Rated Duct Bank Section on Sheet E-08 with non-traffic rated ductbanks installed per the table in this detail. Trench and Backfill Detail for Ductbank, Non-Traffic Areas will not be used.

Question 15: Spec 16137 (page 4) 3.2.H details a copper ground cable (assuming #4/0) the entire length of each ductbank. Are all underground conduits on this project considered 'ductbanks' and therefore contain a #4/0 copper ground? The detail for Traffic Rated ductbank shows the ground cable but the Non-Traffic rated ductbanks does not.

Response 15:

Eliminate #4/0 copper ground from ductbanks.

Question 16 It appears that there may be an error on the detail for (2) Underground conduits on Dwg E-08 for the ductbank for conduits C-11 and C-17 related to conduit size (which I believe should both be 1") and the detail shows a 2" spare. Can you please evaluate and respond?

Response 16:

Conduit designation for ductbank sections 1 and 2 on Sheet E-08 shall be C-11, C-17 and Spare. Conduits shall be 2".

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Question 17: They do not make a 35A 480v MCC bucket. Should they be increased to 40a or reduced to 30A. If 40A the feeder size will need to increase.

Response 17:
Provide 35A, 480V breaker in existing MCC buckets as shown.

Question 18: Is the underground 2" from PB-3 to new SCADA panel #5 existing as DWG E-03 indicates?

Response 18:
The 2" conduit from PB-3 to SCADA panel #5 is NEW and not existing.

Question 19: Can we assume that ALL of the conduits required between the existing Electric Room Jbox to PB-1 (including controls and signals from SP-1) are existing?

Response 19:
Yes. County had four additional 2" conduits installed under the Automation Project No. 6013792 for use in the current project.

Existing 2" conduit for connection between PB-1 and SP-1 is stubbed up under existing electrical junction box. Additional conduit and junction box will need to be installed to connect PB-1 and SP-1. This is discussed further in Changes to Drawings.

Question 20: We do not see any spec for the new MCC buckets required in MCC 11, and MCC 12?

Response 20:
There are no new MCC buckets required. Provide and install circuit breaker in existing MCC buckets, as shown on electrical sheets.

Question 21: What is the Manufacturer of the existing MCC that we are adding the buckets to?

Response 21:
MCC-11, and MCC-12 appear to be Cutler Hammer. Contractor shall field verify MCC manufacturer.

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Question 22: What is the current SCADA software and does the current operating license have sufficient capacity to accommodate the new I/O from this project?

Response 22:

The SCADA software is Citect Software (now Schneider Electric). If additional capacity is required the County will increase capacity to meet project needs.

Question 23: What type (manufacturer and series) of PLC is required for this project?

Response 23:

Specification Section 13451, Programmable Logic Controllers, has been updated to address this question. See Changes to Specifications below.

Changes to Specifications

1. Update Section 13451, Programmable Logic Controllers as shown below:
Add paragraph 2.1.F to say the following:

2.1.F Products and Manufacturers: Provide the following:

1. *PLC manufacturer type shall be coordinated with existing facility PLCs so that the same software programming language is used for all PLCs. PLCs shall be Allen-Bradley SLC 5/04.*

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Changes to Drawings

1. Sheet D-02 –
 - a. Callout of existing 20" SPW pipe to the north shall read as follows:
 - i. Demolish Approx. 153 LF of Ex. 20" SPW (DIP) Pipe
 - b. Callout of existing 20" SPW pipe to the south shall read as follows:
 - i. Demolish Approx. 156 LF of Ex. 20" SPW (DIP) Pipe
 - c. Remove Note No. 1
2. Sheet D-03 –
 - a. Remove Note No. 1
3. Sheet C-02 and C-07 – Any existing electrical handholes within proposed road area shall be H-20 rated handholes. Handholes shall be flush with top of road. Existing valve boxes in proposed road area shall be adjusted so that they are flush with top of road. Concrete pads at valve boxes shall be removed.
4. Sheet C-03/M-08 – 1" Sample tap shall connect to 36" FE at 45 degree angle from bottom of pipe.
5. Sheet M-03 – Change 144'-0" dimension on right side of Gravity Disk Filter No. 3 in Section 1 to 5'-0".
6. Sheet M-07 – Provide OSHA approved ladder to be installed on interior of Chemical Injection Manhole. Ladder to be located at entrance to manhole. Ladder shall be anchored to wall per ladder manufacturer recommendations.
7. See attached updated Sheet C-03. **(Replace sheet C-03 with sheet attached)**
8. See attached updated Sheet M-02 **(Replace sheet M-02 with sheet attached)**
9. See attached updated Sheet M-03 **(Replace sheet M-03 with sheet attached)**
10. See attached Figure 1 **(Make sheet 1 a part of the Invitation for Bid solicitation)**
11. Sheet E-04 –
 - a. Provide and install 12"Wx12"Hx12"L stainless steel junction box near existing junction box on exterior wall of electrical room. Junction box shall be per specifications.
 - b. Route existing, empty 2-inch conduit on exterior wall of electrical room coming from Pull Box No.1 to new junction box and install new 2-inch rigid conduit from new junction box to SP-1. Route wiring FO-01 through conduit to connect Pull Box No. 1 to SP-1.

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The deadline for submitting sealed Bids at the Manatee County Purchasing Division, 1112 Manatee Avenue West, Suite 803, Bradenton, Florida 34205 has been extended. The new date of the bid opening is until 2:00 pm on January 23, 2013.

END ADDENDUM # 4

Sincerely,



Melissa M. Wendel, CPPO
Purchasing Official

/ds (Attachments-----drawings: C03, Figure 1, M02 and M03)

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