



St. Johns River

Water Management District

Ann B. Shortelle, Ph.D., Executive Director

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On the internet at www.sjrwmd.com.

DATE: September 23, 2020
TO: Prospective Respondents
FROM: Gerald Cahalane, Assoc. Procurement Specialist
SUBJECT: Addendum #2 to Invitation for Bids #36033 - Lake Apopka North Shore Interconnect Pump Station

This addendum is to answer questions posed by prospective respondents, share information about how to obtain the audio recording of the pre-bid teleconference meeting, and the sign in sheet for the site-visit attendees.

Responses to this quote request are due by no later than 2:00PM on, Wednesday, September 30, 2020.

Additionally, please ensure that all quotes are sent in PDF format as an email attachment.

If you would like to receive the audio recording of the teleconference meeting, that was held on Tuesday, September 8, 2020, at 1:30PM, please send me a written request via email, at: gcahalan@sjrwmd.com, and I, or another member of the District, will email a copy of the audio recording to you.

Please see the next pages for the questions and answers – the sign in sheets for the site visit, hosted on Tuesday, September 8, 2020, from 10:00AM to 11:00AM, can be found *after* the question and answers:

1. **Question:** The borings show unsuitable materials well below the inverts of the discharge pipes. What will be considered the over-excavation limit of those unsuitable materials for this project?

Answer:

Bidder shall review and install per the Geotechnical Exploration and Evaluation Report completed by CSI Geo included in the bid documents.

Items to note from report – Bidder to review and make own determination for bid. This is for informational purposes only.

- B-1: Grass Berm (pump station, pump station piping, electrical control panel, and transformer pad) the vertical limits of organic soils (muck) and soft soils are indicated to extend to approximately elevation +50 feet NAVD88.
- B-2: Canal Road (48” CAAP, slide gate structure, and slide gate electrical pad) the organic soils and soft clays are indicated to extend to approximate elevation +62 feet NAVD88.
- Proposed Berm (2-60” CAAP, slide gate structures, and slide gate electrical pads): Boring not conducted but estimated to be similar to B-1 with organic and soft soils extending to approximately elevation +50 feet NAVD88.
- Per *Section 4.0 Geotechnical Engineering Evaluation And Recommendations* of the report, unsuitable organic soils to be removed in their entirety and replaced with compacted clean sands. Plastic clays encountered at the bearing levels should be over-excavated a minimum depth of 1 foot below the pipe invert and 2 feet below the support footing bottom and backfilled with compacted clean sands.
- Extensive Dewatering as discussed in sections 5.3 and 5.4 of the Geotech Report will be required during de-mucking so that the process can be performed “in the dry” condition.
- The rip-rap bottom of the pump station discharge (25’ x 50’) shall have the organic soils and soft soils over excavated to a minimum depth of 1 foot below the bottom of the rip-rip and backfilled with compacted suitable soils or #57 stone.
- Area of grading for new access road embankment (geoweb gravel area) to have loose muck or organics removed prior to fill placement.
- The rip-rap embankment and rip-rap bottom of the pump station discharge piping shall have unsuitable organic soils to be removed in their entirety and replaced with compacted clean sands. Plastic clays encountered at the bearing levels should be over-excavated a minimum depth of 2 foot below the rip-rap invert and with compacted clean sands.
- An alternative option to removal of the unsuitable soils at structures and pipes that can be submitted as a Request for Information (RFI) by the selected bidder, is installation of H-piles for supporting the structures or pipes. Contractor RFI requires a signed and sealed documentations from a professional engineer licensed in the state of Florida and approved by the District regarding the depth and number of piles required for structures.

Based on the bidders means and methods the selected bidder may do a combination of H-piles and removal of unsuitable soils depending on the location and amount of unsuitable soils required to be removed for the most economical installation of the structures and pipes. The contractor shall verify as necessary as stated in Section 02355 Steel H-Section Piles.

1.06 B. Site Information:

1. *CONTRACTOR shall review and understand the information contained in the Geotechnical Report. The geotechnical investigation report is made available to the CONTRACTOR for information on factual data only and shall not be interpreted as a warranty of subsurface conditions whether interpreted from written text, boring logs, or other data.*

2. *The CONTRACTOR shall visit the site and become thoroughly familiar with all site conditions affecting the work and review the location of all piles for potential obstruction or interference during pre-drilling and driving.*
3. *Test borings and other exploratory operations may be made by the CONTRACTOR at no additional cost to the District, provided such operations are acceptable to the District, in accordance with Contract Documents.*

2. **Question:** Where will the contractor be permitted to spread/dispose of the over-excavated unsuitables?

Answer:

Unsuitable material can be spread on the dry side slopes of adjacent levees approved by the District.

3. **Question:** Is there any further engineering required for the canopy section? It appears as though there are no material specifics given in the details on Sheet S-6.

Answer:

Materials:

- Structural Steel – ASTM A36, ASTM A500 Gr B.
- All bolts, nuts and washers to be Hot Deep Galvanized.

4. **Question:** Is the canopy required to be steel or can aluminum be utilized?

Answer:

Structural Steel, see material specifications in the answer to item 3.

5. **Question:** Has Duke Energy given an estimated schedule for installation of the service and transformer?

Answer:

No, we do not have a schedule from Duke Energy currently. We do expect the power line to be constructed well ahead of the pump station completion and ready for service connection when the pump station is ready to be energized.

6. **Question:** Detail 8 (Note 5) on Sheet D-1 states that Geo Fabric shall be placed between stone layers at top of bank, however I do not see what this is referring to. Should there be fabric between the #5 bedding stone and rip-rap as well as under the #5 bedding stone?

Answer:

Detail 8 (Note 5) shall read: “ Geotextile fabric shall have a minimum overlap of two feet horizontally and placed between stone layers at the toe and at the top buried below stone or between the stone layers.”

7. **Question:** Spec Section 02931 Riprap references FDOT 530-2.1.3 FDOT and then indicates Ditch Lining material. In a similar pump station discharge area, bank and shore rip rap was required. Please confirm ditch lining rubble material is required.

Answer:

Section 02931 Riprap references FDOT 530-2.1.3.2 FDOT specifications for Rubble rip-rap (Ditch lining) for this project.

8. **Question:** Reference Section 1 SHT S-3. There appears to be an additional H-pile located between Column Lines 2 and 3. Is the H-pile locations along Column Lines 1, 2 and 3 as shown on SHT S-2 correct or S-3?

Answer:

There is not an additional HP Pile between column-lines 2 and 3. The callout for HP Pile is incorrectly pointing to the Sheet Pile.

9. **Question:** Spec Section 01025 Measure and Payment Para 1.03.A. indicates no separate pay item will be permitted for items including construction photos and video recordings. Please provide Specification Section 01380 Construction Photos for the photos and video recordings such that we can price the scope accordingly.

Answer:

Item 3 "Construction photographs and videotape recordings" and 6 "Testing" in Section 01025 Measure and Payment Paragraph 1.03.A. can be removed.

10. **Question:** Please provide details for the drop inlet structures' nonstandard grating that will be required to accommodate the slide gate.

Answer:

The drop inlet structures nonstandard grating will be FDOT approved grating with alterations as necessary to the grate allowing the slide gate installation and operation.

11. **Question:** Will traffic be diverted to Laughlin to accommodate the installation of the 48" CAAP through Canal Road?

Answer:

Yes. For installation of the 48-inch culvert under Canal Road, the contractor shall coordinate with the District project manager on scheduling the open cut of Canal Road. Attempts to complete all work on days when the Wildlife Drive is not open shall be made, but reasonable proposals for short closures of Wildlife Drive down Canal Road will be accommodated by the District.

12. **Question:** SHT C-3 calls out 4'x6' Type J inlet structure. On a recent similar project at Lake Apopka, the 4'x6' Type J was deemed nonstandard and a 3'x6 ½' Type H structure was provided instead. Please confirm the type and size of the structure at the culvert.

Answer:

Type H structures or other standard FDOT structures that meet the intent of the design of a culvert (48" or 60") and associated slide gate (48" or 60") are acceptable for this project.

13. **Question:** Will construction time extensions be approved due to long lead times for the pump delivery?

Answer:

The pump delivery time estimated by MWI pumps is 18 to 22 weeks after shop drawing approval. The 300-day construction time for the project is reasonable given this delivery time and no time extension is anticipated unless other delays outside of the control of the contractor occur.

14. **Question:** Do American Iron and Steel Institute or Davis-Bacon requirements apply to this work?

Answer:

No.

15. **Question:** What is the deadline for submitting questions?

Answer:

Per the bid documents 9 days before the bid date, and the deadline for issuing an addendum is 5 days before the bid unless stated differently by the District. However, an additional site visit opportunity has been added as described in Addendum 1. Because of possible questions resulting from the site visit, the date to submit question has now been extended to be Wednesday, September 23, 2020 at 5:00PM. However, the deadline for issuing an addendum remains at 5 days before the bid unless stated differently by the District.

16. **Question:** The plans specify the HydroTurf® CS system for use as bank protection. Watershed Geo suggests that HydroTurf® Z be used in lieu of the HydroTurf CS. HydroTurf® CS is typically used for high velocity conditions (> 20 fps).

Answer:

HydroTurf® Z is acceptable.

17. **Question:** Waterman is named as an approved vendor. Would you be open to adding RW Gate company to the listed names?

Answer:

RW Gate Company is an acceptable manufacturer if the aluminum slide gate meets the specifications of Section 11201.

18. **Question:** Drawing S-3, Section 1 calls for a minimum pile embedment of 50' for the H-Pile 12x53. However, I cant find if this minimum embedment would apply to the PZ-27 sheet pile. Can you confirm?

Answer:

Embedment:

- HP Pile: 50 feet.
- Sheet Pile: 16 feet.

19. **Question:** Will the owner be willing to substitute the PZ-27 pile with another kind that provides the same or better performance?

Answer:

Yes, must be an approved equal or better. Weep holes are required for the sheet pile and must be installed per manufactures recommendations.

20. **Question:** We have reviewed the plans and specifications for ITB 36033 LAKE APOPKA NORTH SHORE INTERCONNECT PUMP STATION and would like to request Golden Harvest, Inc. be added by addendum as an acceptable supplier to Section 11201 Fabricated Aluminum Slide Gates. Golden Harvest regularly competes with the named supplier and no changes to the work would be involved. Attached are typical specifications and drawing of the gate model we propose to supply for your review. Detailed submittal drawings showing correct dimension, orientation, options, etc. would be provided if successful. Golden Harvest has previously supplied gates to the District (Fellsmere, Upper St Johns River Basin FWMD "S" Canal, and Prairie Creek Diversion Structure).

Answer:

Golden Harvest, Inc. is an acceptable manufacturer if the aluminum slide gate meets the specifications of Section 11201.

21. **Question:** Can you please provide specs for the 30" Flg Flap Valves?

Answer:

See Section 11261 – 2.05A Discharge Flap Gate. MWI to supply flap gate with pump package per specifications.

22. **Question:** Can you please provide specs for the 30" Steel pipe C-2 at the pump station?

Answer:

See Section 11261 – 2.05B Discharge Piping. MWI to supply 3/16" "Cor-Ten" Steel pipe with pump package per specifications.

23. **Question:** Can you let us know if there are any coatings or linings for the 30" Steel pipe C-2 at the pump station?

Answer:

Two coats of 4-8 mils DFT each of Sherwin Williams Dura-Plate 235 or approved equal is to be applied to the entire interior and exterior of the discharge pipe and fittings. MWI to supply coated pipe and fittings per specifications.

24. **Question:** Are there any domestic material requirements for this project?

Answer:

No.

25. **Question:** Is the Pre-Engineered Canopy installed by others? If it is to be installed, please provide additional drawings.

Answer:

The selected contractor is to install the pre-engineered canopy. The canopy manufacture must provide the canopy shop drawings and calculations signed and sealed by a professional engineer licensed in the state of Florida for the District review and approval. The canopy shall meet or exceed building codes of Orange County.

26. **Question:** Please provide details and specifications for the proposed slide gates.

Answer:

See Section 11201 Fabricated Aluminum Slide Gates in the bid documents.

27. **Question:** Please provide details and specifications for the bypass pumping with respect to the routing location(s) and capacities to be provided.

Answer:

By avoiding work necessitating blocking flow in the Lake Level Canal, during the wet season, and by sequencing the work such that the proposed 48-inch culvert at Canal Road is in place and operable at the beginning of construction the need for a bypass pump may be avoided.

If the 48-inch culvert at Canal Road into Phase 7 is in place and operable before the improvements to Lake Level Canal are started, the new 48-inch culvert and an existing 36-inch culvert (not at project site, District to coordinate) into Duda would be opened prior to significant rain events to provide relief of Lake Level Canal. Once the earthen berm and 60-inch culverts in Lake Level Canal are in place and operable these would be opened in the event of significant rainfall.

If the contractor does not propose sequencing work this way, then yes a by-pass pump/pumps will need to be in place to move 100 cfs from Lake Level Canal into the surrounding wetlands.

28. **Question:** In the absence of sufficient geotechnical data, to what elevation(s) are the following areas to be de-mucked to under the base bid:

- Beneath the pump discharge piping
- Beneath the stilling well

- Beneath berm B
- Beneath the stabilized road surface occurring over the existing muck berm
- Beneath the control and transformer pads

Answer:

See response to item number 1.

29. **Question:** Will all testing be by the contractor for this project?

Answer:

No, the District will provide testing. Contractor to provide assistance and scheduling in advanced to allow testing to be completed by the District per specifications.

30. **Question:** Sheet C-1 indicates the pump discharge piping to be bolted flange connected per call-out. Section 01010, part A, subpart 1 of the bid documents state this pipe is welded. Please Clarify.

Answer:

Nearly all the pipe is buried and flanged at locations convenient for manufacturing, handling, and installation. The only field welds are for the flanges at either end of the pipe runs where the pipe connects to the pump and flap gate. MWI to supply 3/16" "Cor-Ten" Steel pipe with pump package per specifications.

31. **Question:** The 100 year flood elevation has been referenced in the plans for grading, but has not been specifically identified. Could that elevation please be provided?

Answer:

The 100-year flood elevation is 68.3 NAVD88.

The following items to be revised for the Electrical Sheets:

Sheet E-6, Electrical Equipment Rack Details, following note to apply: "Typically the top of all electrical equipment enclosures shall be set at 6'-0" above the top of the equipment pad, and shall be adjusted up as required to maintain the bottom of the equipment enclosures no less than 12" above the 100 year flood elevation."

Sheet E-6, Typical Control Panel Front View: Delete the floor stand kit and support the control panel from the electrical equipment rack.

Sheet E-10, Typical Gate Operator/Stilling Well Equipment Pad Detail, following note to apply: "Typically the top of all electrical equipment enclosures shall be set at 5'-0" above the top of the equipment pad, and shall be adjusted up as required to maintain the bottom of the equipment enclosures no less than 12" above the 100 year flood elevation."

32. **Question:** Will this job require a test pile program for its H-Piles?

Answer:

Not required. Refer to the Geotechnical Exploration and Evaluation Report Section 4.3.4.

33. **Question:** Will shop drawing submittals for the proposed catwalk need to be stamped by a P.E.?

Answer:

No. The catwalk is shown on S-2 Plan 3 and is the EOR design.

34. **Question:** Will shop drawing submittals for the proposed control panel shelter be stamped by a P.E.?

Answer:

Yes.