Board of County Commissioners • Escambia County, Florida

Paul R. Nobles/Purchasing Manager
Office of Purchasing

January 25, 2019

To: All Known Prospective Bidders

ADDENDUM NUMBER 2

Re: PD 18-19.013 Willowbrook Lake Dam Reconstruction Project

All:

The following responses to the Requests for Additional Information are provided.

This Addendum Number 2 is furnished to all known prospective bidders. Please sign and return one copy of this Addendum, with original signature, with your submitted bid as an acknowledgement of your having received same. You may photo copy this form for your records.

Sincerely,

Buzz Roggenbuck
Sr. Purchasing Coordinator

Acknowledgement of Receipt of Addendum:

SIGNED: _____

COMPANY: _____

ABR

SIGMA CONSULTING GROUP, INC.
ENGINEERING & SURVEYING

3298 Summit Boulevard, Suite 32
Pensacola, FL 32503
Phone (850) 332-7912
www.sigmacg.com

January 24, 2019

Buzz Roggenbuck
Sr. Purchasing Coordinator
Board of County Commissioners – Administration
213 S. Palafox Place, 2nd Floor
Pensacola, Florida 32502-5882

Re: Willowbrook Lake Dam: Response to Requests for Additional Information (RAI)

Dear Mr. Roggenbuck:

Below you will find Sigma Consulting Group's formal response to the all of the Requests for Additional Information (RAI) that have been received to date. The questions with responses are listed in chronological order.

RAI 1: Received via E-mail from Buzz Roggenbuck: Date – December 13, 2018

1. I am working with the ORBINOX organization and would like to be approved as an equal on the Willow brook Lake project for the slide gates. The gates that are specified are 18" X 24" SS slide gate with Whipps listed or engineer approved equal.

*I have reviewed the previous email and I do **NOT** accept the ORBINOX MU Stainless Steel slide gate as an approved equal.*

RAI 2: Received via E-mail from Buzz Roggenbuck: Date – December 20, 2018

1. Sheet 8 of the construction plans and bid item #28 refers to constriction of "articulated concrete block" on the spillway, armored ditch, and embankment slope. Please specify what type or brand is required.

The articulated concrete block shall be "Armorflex Class 40T Block 1.5 (or equivalent)".

RAI 3: Received via E-mail from Buzz Roggenbuck: Date – January 2, 2019

1. The MP Industries representative requests dimensions on the length and width of the gangway, is it secured to concrete with anchor bolts, and what is the bolt spacing?

The gangway is 18' long and 48" wide and this information is called out on Sheet 10 of the plan set. The gangway will be attached to the concrete with anchor bolts. The anchor bolts will be offset a minimum distance of 4" from the edge of the concrete and they will be spaced on 10" centers.

2. Sheet 6 of the construction plans refers to shell fill on the slopes outside the clay core and refers to specifications required in the geotechnical report dated 7/12/2016 by NOVA Engineering & Environmental. We do not find any reference to shell in the geotechnical report or in the plans, so please clarify if shell is required, and if so what shell material is specified?

*The "clay core" and "shell" material are detailed on **Page 12** of the geotechnical report in the section entitled 5.2.4 Structural Fill in the 1st paragraph.*

3. As previously requested, please provide specifications and details on the articulated concrete block slope embankment material. No detail or specification was found in the plans.

The articulated concrete block shall be "Armorflex Class 40T Block 1.5 (or equivalent)".

RAI 4: Received via E-mail from Buzz Roggenbuck: Date – January 2, 2019

1. Where will pond/ dam access be granted?

The contractor may enter from either side of the project but will be expected maintain the project site at all times. Any damages to the R/W must be repaired by the contractor at his own expense.

2. Item #8 on the Bid Sheet refers to removal and replacement of 2,500 CY of unsuitable material. Where is this material expected to be removed from?

The unsuitable material is expected be removed from the dam footprint area and it is assumed to be 2' in depth.

3. Can existing suitable material excavated from the existing dam be reused to backfill dam sloped on top of the clay core?

Suitability of material will need to be determined by geotechnical engineering firm.

4. Will inspection be conducted by Escambia County personnel or other agencies?

Full time inspection services will be supplied by Escambia County.

5. Can Pensacola Bahia sod be used in lieu of Argentine Bahia sod?

Yes

6. Can any information be provided on the drainage basin area that feeds the pond/ outfall discharge so we may have an idea of what volume/ flow of runoff to expect to handle during rainfall events?

Approximately 1900 acres of drainage basin discharges into Willowbrook Lake with approximate flow data as follows:
25 year Storm Event = 730 CFS
100 year Storm Event = 1,046 CFS

7. Can details be provided for the trash rack?

*The trash rack shall be a **Contech - Stormrax Trash Rack (Peak/Dome Series)**. The trash rack will be need to be fabricated to fit the as-built dimensions for the dam overflow structure. The proposed dam overflow structure has inside dimensions of 46' x 4' and will be divided with a gangway that is 4' wide.*

8. What material will be used for the drain diaphragm?

*Material specifications for the drain diaphragm are shown on **Sheet 21** of the plan set, specifically referenced in **Detail Note #1**.*

9. Do Davis Bacon wage rates have to be met for this contract?

No, because this is not a federal contract.

RAI 5: Received via E-mail from Buzz Roggenbuck: Date – January 14, 2019

1. What are the specifications for fill material outside of material marked "shell" and/or "clay core" shown within cross sections?

The native materials will be fine as long as they comply with the requirements of the geotechnical report for the project and are approved for use by the onsite inspection services provided by Escambia County.

2. Are there areas where the "shell" and/or "clay core" material isn't required and/or not required to match the typical detail illustrated on sheet 6?

No, shell and core material are required for the full length of the dam.

3. Is the entire length of the earthen dam, including the area labeled "436 SY Spillway (Articulated Concrete Block on Embankment Slope)" to have a 20' Top Width, and an elevation of 64.5'?

The entire length of the earthen dam is not at Elevation 64.5' and the Top Width varies.

The differing spillway elevations and top widths are detailed on ***Sheets 9 and 10*** *(Spillway Details) of the plan set.*

4. Do the owners want two 12' cantilever gates (24') for a 15' entrance? Why not a single 16' cantilever gate? Also with no fence detail, do they want barbed wire?

A single 16' cantilever gate will be acceptable and barbed wire is not required.

5. There was discussion in the pre-bid about the requirements for permeability for the clay core material, has a conclusion been reached?

An alternative mixture/ material consisting of sandy clay and bentonite is acceptable for this project. The mixture must meet the permeability specifications as detailed in the geotechnical report for the project. Contractor shall provide a copy of the alternate mix design for review and comment by the County. Mix design must be approved by County prior to use during the project.

RAI 6: Received via E-mail from Buzz Roggenbuck: Date – January 14, 2019

1. On item 3 (stabilized construction entrance) if multiple access points are established will the needed additive quantity be counted toward payment for the additional entrances or would we have to account for that overage elsewhere in our bid?

The use of multiple entrances by the contractor is at their discretion, but only one (1) stabilized entrance will be paid for as part of the contract for this project. Any additional access points utilized shall be restored to their original conditions prior to construction at the contractor's expense.

2. Items 5, 6, 7, and 8 have theoretical quantities listed in the description, yet the unit of measure/ quantity is 1 lump sum. How are these items paid for unit price/ field measure or 1 LS?

Items will be paid for as Lump Sum.

Response to RAI 6 cont.

3. Item 13 (drop inlet) is roughly 48' long. Given the intense risk involved with building this structure and being subjected to very significant stormwater flow can this structure be reduced in length any by skewing the pipe entries of the northern & southern 60" pipes? This will not alleviate the risk but any reduction will definitely help.

The structure geometry cannot be changed. The overall dimensions of the structure are directly related to the design of the drain diaphragm.

4. Item 14 (sluice gate).On page 10 a reference is made to a "rectangular orifice of 18" high x 24" wide". How is this orifice to be incorporated into the sluice gate relative to the geometry of the sluice gates? Secondly…are we to assume that each 60" pipe receives a sluice gate (3 each)???

The sluice gate itself is an 18' x 24" orifice. There is no additional orifice, the callout is intended to only describe the geometry of the sluice gate. One (1) sluice gate is proposed for the drop structure and it will be located in the center of the structure.

5. Item 15 (gangway) references MP Industries or equal. MP Industries website has multiple choices and looks like a made to order scenario. Can a detail or model number be provided to ensure we price the correct gangway unit?

*The gangway is 18' long and 48" wide and this information is called out on **Sheet 10** of the plan set. The gangway will be attached to the concrete with anchor bolts. The anchor bolts will be offset a minimum distance of 4" from the edge of the concrete and they will be spaced on 10" centers.*

6. Item 17 (wingwalls) references FDOT Index 291. This index is used in conjunction with a table that lists the dimensions for "A", "B", "C", etc). This is always found in the construction plans in order to complete design. Can this table be provided?

*The dimensions for the construction of the wingwalls are detailed on **Sheets 22 and 23** of the plan set.*

RAI 7: Received via E-mail from Buzz Roggenbuck: Date – January 15, 2019

1. I had a question on this job. It has a note for articulated block but it does not have a note. I am curious if I could use the concrete flex a mat there or does it have to be more of the armor flex concrete mat?

The articulated concrete block shall be "Armorflex Class 40T Block 1.5 (or equivalent)".

CONTINUES ON NEXT PAGE

RAI 8: Received via E-mail from Buzz Roggenbuck: Date – January 18, 2019

1. Accordingly we would like to request the County to consider an alternate material that could be produced in bulk volume that is more of a sure thing/readily available. One idea that comes to mind involves applying an admixture such as bentonite to native sand clay which is very plentiful in order to achieve the permeability rate. We have a background in applying bentonite in powder form and mixing it into the native soil for pond liner work. However, we do not have a predetermined formula that would yield the desired results. Considering the fact that bids will be due in short order we are requesting the County to consider this approach and assuming this approach is desirable to provide at least a generic formula relating a sand clay material volume to the admixture volume to assist in bid calculations.

An alternative mixture/ material consisting of sandy clay and bentonite is acceptable for this project. The mixture must meet the permeability specifications as detailed in the geotechnical report for the project. Contractor shall provide a copy of the alternate mix design for review and comment by the County. Mix design must be approved by County prior to use during the project.

If you have any questions or comments, please feel free to contact us.

Sincerely,

Jason L. Lashley, P.E.
Vice President/ Senior Project Manager