

ADDENDUM NO. 2
FLOWERY BRANCH WRF UPGRADE 2.2-MGD
CITY OF FLOWERY BRANCH

Sealed bids will be received until
10:00 AM local time on July 15, 2022

This addendum hereby amends and/or modifies the Contract Documents, Detailed Specifications, and Drawings, as indicated, that have been issued for this project by Infratec, Inc. Additionally, questions received by the Engineer are answered at the end of this addendum. All bidders are subject to the provisions of this addendum and shall acknowledge receipt of this addendum on the bid form.

1 CONTRACT DOCUMENTS

2 DETAILED SPECIFICATIONS

- A. **REPLACE** the following entire specification sections with the attached specification
 - 1. 11360 – Disc Filtration
- B. Section 01150, Paragraph 1.4.C
 - 1. **DELETE** "in new paving base and".
- C. Section 11290, paragraph 2.3.B – Internally Fed Drum Screens
 - 1. **ADD** "13. Drain Pan
 - a. The drain pan shall be constructed out of Type 316 stainless steel.
 - b. The outlet connection shall be a 24-inch diameter ANSI B16.1, Class 125 flange.
 - 2. **ADD** "14. Support Legs
 - a. Support legs shall be Type 316 stainless steel.
 - b. Support legs shall elevate screen to allow proper fit of the drain pan."
- D. Section 11340, Paragraph 2.3.A.1
 - 1. **REPLACE** "service factor of 2.5" with "service factor of 2.3".
- E. Section 11340, Paragraph 2.3.B & 2.3.C
 - 1. **REPLACE** "Mixer blades shall be stainless steel 3-blade propellers." with "Mixer blades shall be stainless steel or PUR 3-blade propellers."
- F. Section 11500, Polyethylene Storage Tanks, paragraph 2.2.A. and paragraph 2.2.B.
 - 1. **REPLACE** "6,000 gallons" with "12,000 gallons"

3 DRAWINGS

- A. **REPLACE** the following drawings with the attached drawings.
 - 1. C-03
 - 2. C-04
 - 3. C-14
 - 4. C-15

5. 09-M-03
 6. 09-M-04
 7. 16-M-18
 8. 25-M-01
 9. 25-M-03
 10. 25-M-04
 11. 09-S-07
- B. **DELETE** the following drawing entirely
1. 25-M-02
- C. Drawing No. 00-G-00, Sheet Index
1. **STRIKETHROUGH** "04-E-05 – SCHEMCATIC WIRING DIAGRAM"
 2. **ADD** drawing "C-21 – GDOT ENTRANCE PLAN"
 3. **ADD** drawing "C-22 – GDOT GRADE-DRAIN"
- D. Drawing No. 00-G-01, General Notes
1. General Civil Notes, Note 3
 - a. **REPLACE** "force mains" with "pipes"
 2. General Civil Notes, Note 7
 - a. **ADD** "7. All mechanical joint fittings shall have restrained joint glands."
 3. General Mechanical Notes, Note 9
 - a. **ADD** "9. Provide solid sleeve couplings within 18"-24" from where pipe leaves concrete encasement below structures."
- E. Drawing C-15
1. **REPLACE** references to "Note 13" with "Note 12"
- F. Drawing No. 09-S-07
1. **REPLACE** "B/ OPENING EL 1100.58" with "B/ OPENING EL 1098.58"
- G. Drawings C-21 & C-22
1. Add Sheets C-21 and C-22 revising the grading and drainage along Atlanta Hwy, removing an arched culvert and replacing with 42" RCP storm drain piping and accessories. The OWNER shall provide the 42" RCP and deliver to the site. Revise the concrete access drive layout and materials per DOT standards. Note that C-9, the staking plan, other sheets will be revised in the conformed set of plans. Additional erosion control items will be revised and paid for under the general allowance.
- H. Drawing 16-M-11
1. **ADD** note "2. PROVIDE THREE (3) SPILL CONTAINMENT PALLETS. EACH SPILL CONTAINMENT PALLET SHALL BE OF POLYETHYLENE CONSTRUCTION, SHALL HAVE A MINIMUM CONTAINMENT CAPACITY OF 365 GALLONS, AND SHALL SUPPORT A UNIFORMLY DISTRIBUTED LOAD OF 8,500 POUNDS. SPILL CONTAINMENT PALLETS SHALL BE INTERSTATE PRODUCTS, INC. ULTRATECH IBC SPILL CONTAINMENT PALLET PUS WITH DRAIN 1158, OR EQUAL."

4 QUESTIONS AND ANSWERS

- Q2-1: *Drawing 02-ED-01 gives two different ductbank sections for existing DB-10, but there is only one call-out for that ductbank. Please clarify if this is mislabeled, or, the extent of the differing sections within DB-10.*

- A2-1: DB-9 section was mistakenly duplicated. Please use DB-10 section with one conduit. Existing ductbanks conduits info is based on the available record drawings.
- Q2-2: *Please reference 02-S-02 Electrical Building Roof Plan and 02-S-03 Electrical Building Sections and Details. On sheet 02-S-02 Roof Plan, the drawing calls for "Slope 1/4" per ft". On 02-S-03, section 1 shows a roof pitch symbol of "1/2 on 12". Top of tie beam elevations suggests a 1/4" per ft pitch. Please confirm the top of tie wall elevations and the slope of roof.*
- A2-2: The slope shall be as indicated per the elevations (1/4" per foot).
- Q2-3: Please reference 12-S-02 RAS-WAS-SCUM Pump Station T/ Structure and 12-S-03 RAS-WAS-SCUM Pump Station Sections. On sheet 12-S-02 T/ Structure, the drawing calls for "Slope 1/4" per ft". On 12-S-03, section 1 shows a roof pitch symbol of "1/2 on 12". Top of tie beam and joist bearing elevations suggests a 1/2" per ft pitch. Please confirm the top of tie wall and joist bearing elevations and the slope of roof.
- A2-3: The slope shall be as indicated per the elevations (1/2" per foot).
- Q2-4: *Request that WACO be named for the SS slide gates. WACO can meet the spec without exception.*
- A2-4: Not as presented - product will be evaluated during the shop drawing review process.
- Q2-5: *Specifications 01010, 01041, and Appendix A reference the settlement that is expected to occur at the Carrousel Basin and the Secondary Clarifiers. It is typical that double-bell pipe arrangements, sleeves, or settlement joints be installed where site utilities connect to structures which are prone to settlement. No such requirements are shown on the drawings, or are required by the specifications. Please advise if settlement joints or special piping arrangements should be assumed, and if so, please provide clarifying details.*
- A2-5: Provide solid sleeve couplings within 18"-24" from where pipe leaves concrete encasement below structures.
- Q2-6: *The proposed method of construction for the Influent Pump Station and the Membrane Influent Pump Station (sunken caisson construction) will not allow for a structure leak test as described in Spec. 03900. Please confirm that the requirements in this specification will not apply to those structures.*
- A2-6: Leakage testing per specification 03900 will not be required for these structures. The Contractor shall allow groundwater to rise outside of the structure once the structure is complete and address any water infiltration in accordance with the specifications.
- Q2-7: *Drawing 25-M-01 states that "the existing plant water system must remain in service at all times during construction and shall not be decommissioned until the City no longer requires the land application portion of their discharge permit". Please confirm what construction/commissioning activities need to take place in order for the Package Booster Pump Station modifications to take place.*
- A2-7: Plant water system drawings have been revised. Plant water system modifications may be performed without any pre-requisites. See attached replacement sheets 25-M-01, 25-M-03 and 25-M-04. Sheet 25-M-02 has been deleted. Replacement drawings have been provided with this addendum.
- Q2-8: *There are no provisions shown for floor drains in the Membrane Building extension. Please confirm that this is the Engineer's intent.*
- A2-8: Floor drains have been added. See attached replacement drawing 16-M-17.

- Q2-9: *Please confirm that all SRF/GEFA forms can be submitted by the apparent low bidder post bid time and prior to contract award.*
- A2-9: The forms required are in the GEFA Special Conditions. They are GEFA 4, GEFA 6, GEFA 9 and GEFA 10. EPA forms 6100-3 and 6100-4 are no longer required at bid submission.
- Q2-10: *Please confirm that the existing Backwash Waste Holding Tank will be used for both Discfilter #1 and #2? If the tank is to be used for both Discfilter #1 and #2, we recommend that Discfilter #2 have its own submersible pump and float switch to be controlled by the Discfilter #2 control panel.*
- A2-10: The existing backwash waste holding tank will be relocated to the new disc filter area. Second backwash waste pump not required for operation - backwash waste pumps will operate independent of the disc filter units.
- Q2-11: *The existing Discfilter Control Panel includes an Allen Bradley PICO Controller which is now obsolete and no longer supported. The new Discfilter Control Panel will include an Allen Bradley MicroLogix 1400 PLC. This means the two Discfilters will need to operate independently of each and cannot be controlled as a "system". The only way to operate these units as a two unit "system" is to replace the existing control panel with a new panel with a MicroLogix 1400 PLC.*
- A2-11: The existing disc filter control panel will be relocated. The two disc filter units do not have to operate as a "system". The existing Disc Filter Control panel shall be relocated with the existing disc filter unit. A new panel shall be provided by the vendor to house the backwash waste pump and its controls.
- Q2-12: *Section 11340 Paragraph, 2.3.B and 2.3.C call out stainless steel mixers. Is the intent for 316SS propellers only or does mixer body need to be 316SS as well? Would a standard PUR (polyurethane coated steel) propeller blade be acceptable? Also, would 304SS for the mast and hoist be acceptable instead of 316?*
- A2-12: The mixer body shall be 316 SS. Mixer propeller blades of PUR are acceptable. Provide all other mixer materials per the specification.
- Q2-13: *Please clarify the requirement for stone under concrete structures as drawings do not indicate stone under structures but 02200 Earthwork section 2.4-A indicates aggregates base under concrete slabs should be #57 stone. If stone is required, please provide thickness.*
- A2-13: Section 2.4A is merely indicating the type of aggregate base to be used when required by the documents. All slabs shall have a working mat as indicated per paragraph 3.8 of Section 02200. Other subgrade preparation shall be as indicated in the geotechnical report.
- Q2-14: *Please confirm that all SRF/GEFA forms can be submitted by the apparent low bidder post bid time and prior to contract award.*
- A2-14: All SRF/GEFA forms can be submitted post bid.
- Q2-15: *Sheet 04-E-05 is listed in the index of drawings but has not been included in the documents.*
- A2-15: Sheet 04-E-05 is not needed and is not included in the contract drawings.
- Q2-16: *General Conditions, Section 6.08 states the Contractor shall obtain and pay for all construction permits and licenses. Please provide a list of all permits and licenses the Contractor will be required to pay for on this project.*

- A2-16: The City will need to issue permits but there will not be a charge. Plans will need to go through the approval process for all required outside agencies and this will be the responsibility of the contractor.
- Q2-17: *Specification Section 07100 Paragraph 1.2.C. indicates that the exterior face of concrete walls of the pump stations are to receive waterproofing. Please advise if waterproofing is to be applied to the full height of the pump station wet well walls or adjacent to the valve vault.*
- A2-17: Pump station wet well walls which are installed via caisson do not require waterproofing.
- Q2-18: *Reference drawing 01-S-02. Should a steel plate be used on the cutting edge of the sunken pump station lower foundation wall?*
- A2-18: A steel plate is not required but may be used at the discretion of the Contractor.
- Q2-19: *The influent and sludge pipe below the new clarifiers (drawings 11-M-01 and 11-M-03) are scheduled to be concrete encased. Will the concrete encasement for these pipes need to extend up to the bottom of the clarifier slab?*
- A2-19: Yes the concrete incasement needs to extend to the bottom of the slab.
- Q2-20: *Specification Section 01150; Paragraph 1.4-C states the unit price item 'C' for Graded Aggregate Base is to be used in new paving base and as directed for additional stabilization. Please clarify if this unit price bid item covers the required GAB already shown on the bid plans, or if this unit price is for any additional GAB that is currently not shown or required in the bid documents.*
- A2-20: New GAB that is shown on the contract drawings shall be included in the base bid price. Unit price item is for GAB to be used as directed by the Engineer.
- Q2-21: *Please address the following regarding insurance under C-800 Supplemental Standard Conditions: Section 5.04-A-4 requires Personal Injury Liability to include employment related offenses, however those acts would be excluded from the coverage.*
- A2-21: Provide as specified.
- Q2-22: *Please address the following regarding insurance under C-800 Supplemental Standard Conditions: Section 5.04-C-2 indicates that the General Liability should remove the exclusion for care, custody and control of the Contractor. The General Liability policy has an exclusion related to personal property in your care, custody and control, and for real property, that particular property you are working on. This cannot be removed from the coverage.*
- A2-22: Provide as specified.
- Q2-23: *Please address the following regarding insurance under C-800 Supplemental Standard Conditions: Section 5.06-A-1-g states that the Builder's Risk policy should be maintained in effect until final payment is made. However, the Builder's Risk policy should be in effect until substantial completion, not final completion.*
- A2-23: Provide as specified.
- Q2-24: *Reference Sheet Index 00-G-00; some of the drawings listed in the index are not provided and some drawings provided are not listed in the index. Please correct so that we know that we have a complete set of drawings.*
- A2-24: Drawing index was reissued with ADDENDUM #1. See additional changes to 00-G-00 as part of this Addendum.

Q2-25: *Reference Note 2 on Drawing 12-M-01; the note indicates that the contractor is to provide a 2000 lb capacity floor crane. Please provide a make and model number of the floor crane required.*

A2-25: Floor crane shall be ULINE Model H-8462 or Equal.

Q2-26: *Due to current market conditions procurement lead times of multiple construction materials ranging from ductile iron pipe to electrical equipment have increased substantially. As an example, lead time for a 4,000 AMP Switchboard is currently being quoted as 75-84 weeks by all specified gear manufacturers. As a result, we anticipate that extended material lead times will negatively affect Phase 1 Substantial Completion time of 720 days, and the suggested sequence of work outlined in Spec. Section 01041. In order to address these challenges and ensure successful project delivery within contractual duration we respectfully request the City of Flowery Branch to consider the following revisions of the contract documents:*

- a. *Add a project administrative period of 90 days prior to construction NTP and increase Phase 1 duration by 90 days from 720 days to 810 days, or increase Phase 1 duration by 180 days from 720days to 900 days.*
- b. *Add a requirement within the contract documents to temporary relocate/ reroute existing power & controls duct banks in conflict with new construction until after new electrical gear is delivered to the project site and all existing equipment is repowered from new Electrical Building. (Also, please advise on required installation details of the temporary relocated power feeds: buried/ encased, direct buried in conduit, above ground, etc.).*

A2-26: Market conditions are understood and supply issues will be addressed as they arise. No change will be made to the contract times.

Q2-27: *Please clarify if the Owner will provide, at no cost to Contractor, the water required to fill the Carrousel and Secondary Clarifiers to achieve soil settlement?*

A2-27: The owner will provide this water at no cost. Pumping of this water may be required and is to be provided by the Contractor if so.

Q2-28: *Specification Section 11500 provided in Addendum No. 1 lists both chemical tanks as "minimum 6,000 gallons". However, drawings 21-M-01 thru 22-M-02 show these tanks as 12,000 gallon. Please confirm the required capacity of these tanks.*

A2-28: These tanks shall be 12,000 gallon tanks.

Q2-29: *Page 2 of the Advertisement For Bidders states, "All Bids will remain subject to acceptance for sixty days after the day of the bid opening." It has become increasingly difficult to lock in pricing for subs and vendors beyond 30 days. Please consider reducing the bid hold from 60 to 30 days.*

A2-29: This change is not acceptable.

Q2-30: *Please confirm that Contractor is permitted to draw bonds/insurances/overhead from the General Contingency Allowance as it is disbursed.*

A2-30: These items are to be included in the Lump Sum Bid price.

Q2-31: *Article 13, section 13.03 states that "Owner shall employ and pay for...an independent testing laboratory to perform all inspections, tests, or approvals..." However specification 01410 states that "the Contractor shall use the services of a reputable independent testing laboratory" for concrete material tests, and "other materials and workmanship requirements specified in Divisions 3 through 16..." Please confirm testing will be paid for by the Owner*

A2-31: Materials testing will be employed and paid for by the City.

Q2-32: *Drawing 03-S-06, Detail B calls for the W8x18 steel pipe brace columns to be galvanized. The remaining steel angles, plates and the W12x26 cross beams are called out as steel. Please confirm if the intent is to have all pipe brace steel materials to be galvanized or only the W8x18 columns and shim plates as shown on the drawing.*

A2-32: All of the steel shown in detail B is to be hot-dipped galvanized.

Q2-33: *Please reference sheets 12-S-01, 12-S-03 and 12-S-04. On sheet 12-S-01, there is a note of "T/12" SLAB. EL. 1084.00". On 12-S-03 and 12-S-04, the section view shows the slab at the same elevation with "1'-4"" thickness. Please advise on the thickness of this slab and confirm top of slab elevation is 1084.00'.*

A2-33: The slab is to be 1'-4" thick. Top of slab elevation is 1084.00'.

Q2-34: *Reference drawing C-16, SS line P-6. 115lf of 12" steel casing is called out. This steel casing is not called out anywhere else. Is this steel casing necessary? Please confirm that SS line P-6 can be opened trenched and jack and bore is not required.*

A2-34: There is not adequate space between the control building and the office building to open cut, so yes a casing will be required as shown.

Q2-35: *Addendum 01 provided specification 00470, Subcontractor Affidavit and Agreement. This form is referenced on the bid form, 00300, item 7 as a potential attachment to the Bid form. Please confirm the document is due post bid, from selected subs of the awarded bidder.*

A2-35: Subcontractor Affidavit and Agreement is due post bid, but prior to any subcontractor arriving on site.

Q2-36: *Reference Addendum 01, response to question 47. Please reconsider the request for a two week bid extension.*

A2-36: This change is unacceptable.

Q2-37: *Could a price per ton allowance be added to the bid form for grit removal on the project? At a minimum, we would assume that there would be grit removal requirements necessary to complete the aerobic digester modification work shown on 23-M-01.*

A2-37: City of Flowery Branch shall be responsible for removal of grit from structures to be demolished and/or abandoned.

Q2-38: *Could you please clarify the requirements of specification 02960 Temporary Bypass System. I have reviewed the documents and did not see where long duration temporary bypassing would be required for this project. Specification 02960 indicates that the bypass system will need to remain operational to divert the WW around the work area for the duration of the project. Please clarify.*

A2-38: Temporary bypass pumping shall be provided per the specification, when and if required.

Q2-39: *Reference Detail C/16-M-04: Riser and additional discharge shown as 8" dia however sheet 16-M-03 shows two of the discharge lines as 6" please advise.*

A2-39: All 4 discharge lines are to be 8" dia. between the header pipe and each strainer.

Q2-40: *Reference Sheet C-14: How does the new 18" Effluent line tie into the existing Membrane Feed PS?*

- A2-40: This connection shall be made via core with link seal and grout on both sides.
- Q2-41: *Reference Sheet C-14: What is the pipe material for the 8" drain from the Headworks to DH SSMH P-3-1?*
- A2-41: Ductile Iron Pipe
- Q2-42: *Reference Sheet C-14: Please confirm project limits of new FM on the lower left hand side of the plan.*
- A2-42: This forcemain is the plant effluent forcemain. The effluent forcemain will not be altered as part of this contract.
- Q2-43: *Reference Sheet C-15: There is designation at the spray FM that references note 13, this page does not have a note 13 please advise.*
- A2-43: REPLACE references to "Note 13" with "Note 12"
- Q2-44: *Reference Sheet C-15: Is the initial phase referenced on this sheet the same as Phase 1 Task A in specification 01041-2*
- A2-44: Yes; see drawing C-3 for coordination of phased yard piping.
- Q2-45: *Reference Sheet C-15: Is there an existing valve that the contractor can accomplish the tie in to the existing 10" spray water force main, if not can this be wet tapped?*
- A2-45: There is no record of an isolation valve existing on the 10" LAS force main; contractor shall install a 10" insertion valve as required to isolate the force main.
- Q2-46: *Does buried ductile pipe require and poly wrap, detectable or non-detectable tape?*
- A2-46: No.
- Q2-47: *Reference Sheet C-15: Can the existing EQ tank be offline for a short time to allow the contractor to connect the new 16" effluent line or will this operation require bypass?*
- A2-47: Yes; this shall be coordinated with the City of Flowery Branch
- Q2-48: *Reference Sheet C-15: Can the existing EQ tank be offline for a short time to allow the contractor to connect the new 24" influent line or will this operation require bypass?*
- A2-48: Yes; this shall be coordinated with the City of Flowery Branch
- Q2-49: *Reference Sheet 01-M-03 Note 5 states all hardware and material in the wet well shall be 316 SST, does this include the flange piping and fittings?*
- A2-49: All hardware, pipe supports, and accessories inside the wet well shall be 316 SS. Pipe and fittings shall be ductile iron.

** END OF ADDENDUM **