INGRAM & ASSOCIATES
CONSULTING ENGINEERS, LLC

ADDENDUM NO. 2

PLANS, SPECIFICATIONS, AND CONTRACT DOCUMENTS

August 29, 2019

PROJECT: River North – Lake Deer Run Lift Station, Crane System, & Site Improvements
I&A Project No.: 1160-080-02

OWNER: Jones County Board of Commissioners

REVISED BID DATE: September 5, 2019 @ 11:00 a.m. (per Addendum no 1)

Engineers Response to Questions

ITEM No 1: **It will be acceptable to plug the old lines (entire length) scheduled to be abandoned with flowable fill (foam concrete base resistant to gas's). Also refer to drawing 2, sheet note number 24.**

ITEM No 2: Drawing 2, Note 23 What duration can the existing 6" FM to be relocated be out of service for this relocation? Can it be emptied into the wet well?

The 6-inch lift station force main from Fairway #5 PS is fourth in a series of lift stations in River North that is capable of delivering 175 gpm every 4 to 8 minutes. Both Fairway #5 PS and the subject Lake Deer Run Stations are critical to the system wide function of the River North Community. The Lake Deer Run Station is last in a series of stations that deliver to Macon Water Authority for treatment. Also see response in ITEM No 4 below. The emptying of sewage flows through this station shall be considered critical and handled based on storage available and by-pass pumping capability. Yes, the existing wet wells (Both 8' ID wet well and/or old wet well converted to MH 1990) can be utilized for temporary storage during construction by-pass pumping operations. Refer to location map on drawing sheet 1 for a schematic of the River North Sanitary Sewer System.

ITEM No 3: **The County will NOT be responsible for removing sewage from existing structures. The contractor will be responsible for all by-pass pumping with no spillages acceptable from either temporary storage structures as described above in ITEM No 2.**

ITEM No 4: Drawing 2 - What are the flows and TDH on the existing influent lines for bypassing purposes?

Peak inflows into Lake Deer Run Station area are estimated as follows:

- **From 6" FM Fairway #5 PS – See response in ITEM No 2.**
- **From River Hills Subdivision – 18 gpm**
- **From 8" PVC SS – 150 gpm***

TOTAL Peak when all contributing lift stations are running = 343 gpm

The submersible duplex station has 2 each ABS pumps (Sulzer) each capable of delivering 524 gpm at 140' of total head. One shall remain operational until by-pass pumping is operational and guide rail system repaired bringing both pumps into duplex operation.

*** Peak Flow only when Ironwood PS is on, otherwise approximate estimate is 100 gpm peak flow.**

Contractor shall be responsible for by-pass pumping during construction. The static head to overcome from low level in 8' ID W.W. to HP in FM near River Hills Lane (critical system high point) is 130.9 vertical feet. Following is a system head table that should represent by-pass pumping system condition utilizing the 4" PVC by-pass FM shown on the Site Development Plan:

Flow (gpm)	Static Head (feet)	Dynamic Head (ft)	Total Estimated System Head (ft)
300	130.9'	9.3'	140.2'
400	130.9'	16.0'	146.9'
525	130.9'	26.1'	157.0'

Equivalent 8" PVC Force main length from station to critical FM high point is estimated at 1916' and Hazen Williams coefficient for PVC pipe is assumed to be 140.

Contractor shall provide by-pass pumping to meet at least the capacity of one (1) each ABS pump (525 gpm) while work is being conducted in existing 8' ID wet well.

ITEM No 5: **00100-9 Instruction to Bidders – REMOVE in its entirety paragraph 16.7 on page 00100-9 of Instructions to Bidders related to Gorman-Rupp equipment.**

ITEM No 6: 00300-3 Bid Form - The project duration is listed as 45 consecutive days from the notice to proceed. Could the project duration be increased to 180 days to allow for proper procurement and construction phases?

The contract time to complete each bid and work segment as outlines in the Bid Form will be governed by eth following table:

WORK SEGMENT	**CALENDAR DAYS TO COMPLETE WORK**
A. Remove & Replace Submersible Pump Guide Rail	**45 days**
B. Site Improvements	**180 days**
C. Hoisting Equipment	**180 days**

Should a bidder only bid on one (1) segment of work the above table will govern. Should a bidder bid on more than one (1) work segment the contract time to complete all work will be 180 consecutive calendar days from Notice to Proceed.

ITEM No. 7 **The Contractor shall purchase whatever power cable(s) necessary to operate the hoist motor and install as per manufacturer recommendation.**

END ADDENDUM NO. 2