

ADDENDUM NUMBER THREE (3)
TO
TOWN OF FRANKLIN
WASTEWATER SYSTEM IMPROVEMENTS

This Addendum Number Three (3) is issued this the 5th of January 2012 to all parties who hold a set of Bid Documents for the project entitled: "**Town of Franklin – Wastewater System Improvements**". This Addendum Number Three (3) shall become part of the Contract Documents and its receipt acknowledged on the bid documents at the time of bidding.

The following additions, revisions, and/or clarifications shall be made to the Contract Documents:

1. GENERAL:

- A. The Contractor may opt to construct the proposed Riverview Pump Station wet-well and dry-pit vaults with cast-in-place concrete methods in lieu of the proposed pre-cast concrete section methods. If the Contractor does utilize cast-in-place concrete methods for construction of the vaults, the Contractor will be responsible for all costs related to the design of said vaults. Vault design shall be completed by an appropriate structural engineer licensed by and in good standing with the North Carolina Board of Examiners for Engineers and Surveyors.
- B. All exposed piping and piping within underground vaults shall be flanged. All underground piping within 20-feet of the connection to a structure as well as all underground air piping shall be of the mechanical joint type. All other piping shall be of the push-on joint type.

2. PLANS:

- A. Sheet C-103: REPLACE the note located inside wetwell with the following:

"Note: All exposed concrete surfaces inside wetwell above elevation 1984.50' shall receive two coats of approved epoxy coating suitable for exposure to sewer gas. Coating shall be Tnemec Series 66 Hi-Build Epoxoline at 4.0-6.0 mils dry film thickness per coat or equivalent coating as provided by Glidden, Carboline or approved equal. Surface preparation shall be per manufacturer's recommendation."
- B. Sheet C-109: The attached C-109A (8.5"x11") drawing illustrates the revised chain link fence alignment. The chain link fence alignment has been revised to allow the proposed 18' cantilever slide gate and automatic electric operator to be installed inside the fence line. Please note the revised fence alignment and update project plan sheets C-108, C-109, C-113, C-114, E-101, and E-102 accordingly.

- C. Sheet C-112: REVISE the truck receiving station utility line sizes as follows: 6" DIP septic discharge to headworks channel; 6" DIP drain line to headworks channel.
- D. Sheet E-601: See Sketch E-601.1(8.5"x11") indicating that generator EG-1 is new.
- E. Sheet E-606: The control one-line for PCP-100 refers to an LE-100; this will not be required due to the installation of a bubbler system.
- F. Sheet E-607: Change the wiring shown on the System Architecture from NC-100 to the Cameras to 62.5 Micronfiber Optic Cable.

3. **SPECIFICATIONS, Section 09900:**

- A. REPLACE Paragraph 2.01(B) with the following paragraph:

"B. All products shall be from a single manufacturer. The coatings listed in the general paint schedule included in this section are based on coatings manufactured by Tnemec for the purpose of specifying the coating system, not to limit competition. Paint shall be as manufactured by Tnemec, Glidden, *Carboline*, or equal."

4. **SPECIFICATIONS, Section 11208:**

- A. REPLACE Paragraph 2.05(G) with the following paragraph:

"1. The unit shall include two (2) N/O dry contacts. *Functionality of the dry contacts is as indicated in the Preliminary I/O List for SCADA Operating System which may be found at the end of Section 13410.*"

- B. REPLACE Paragraph 2.05(I) with the following paragraph:

"1. The unit shall include a glycerin filled pressure gauge to monitor discharge pressure. Gauge shall be a minimum of 4-inches in diameter, and shall be graduated in feet water column. Rated accuracy shall be 1 percent of full-scale reading. Pressure gauge shall be graduated 0 – 140 feet water column minimum. Gauge installation shall be complete with all hoses and fittings, and shall include a shutoff valve installed in each gauge inlet and the point of connection to discharge piping."

5. **SPECIFICATIONS, Section 11280:**

- A. REPLACE Paragraph 2.01(A)(2) with the following paragraph:

"Valve shall be 12-inch nominal size capable of passing a peak flow of *6.105 MGD*. *Normal expected operating range is 0.6-3.0 MGD.*"

- B. REPLACE Paragraph 2.01(B)(4)(a) with the following paragraph:

“The drive motor shall be designed for continuous actuator service and shall be characterized by high starting torque, low stall torque and low inertia, rated **480 VAC, three-phase.**”

- C. REPLACE Paragraph 2.01(B)(5)(c) “Motor Protection” with the following paragraph:

“**Three-phase** protection shall be provided.”

6. **SPECIFICATIONS, Section 11323:**

- A. REPLACE the first sentence of Paragraph 1.06(C) with the following sentence:

“Equipment shall be as manufactured by Lakeside Equipment Company, Bartlett, Illinois; Walker Process Equipment, Aurora, Illinois; WesTech, Salt Lake City, Utah; **Ovivio Water, Austin, Texas**; or approved equal.”

- B. REVISE the first paragraph of Paragraph 2.01(H) with the following:

“The control panel shall be built to the specifications indicated in Division 13. **Provide PLC** in accordance with Division 13 of these specifications...”

- C. REPLACE the first paragraph of 2.01(I) with the following paragraph:

“The 36" wide walkway with handrails shall be supported by the tank wall at its outer ends, and shall be designed to safely withstand a live load of 50 pounds per square foot. Deflection shall not exceed L/360 when the dead load and live load are applied. It shall consist of two beams with **removable aluminum grating** between the beams. The walkway shall be provided with handrails 42" high, of double-row 1-1/2" diameter horizontal aluminum pipe, and 1/4" x 4" high kickplates on both sides.”

7. **SPECIFICATIONS, Section 11330:**

- A. REVISE Paragraph 2.01(B)(9)(a) with the following:

“...dewatering screw equipment. **The control panel shall be built to the specifications indicated in Division 13. The PLC must be provided in accordance with Division 13 of these specifications to be compatible with the plant SCADA system.** A single control enclosure...”

- B. REPLACE Paragraph 2.01(B)(9)(f) with the following paragraph:

“In addition, level controls shall be provided and installed to clean screen. **Level controls shall be utilized to determine water levels upstream and downstream of the**

screen. The screen shall become operable and cleaned when water level differentials exceed the manufacturer's recommended head loss through the screen or when upstream water levels exceed the maximum high water level. See specification section 13420 for submersible level sensor and transmitter requirements. Normally open dry contacts rated 5A at 120VAC for mechanical screen status, mechanical screen alarm, and water supply "on" shall be provided."

8. **SPECIFICATIONS, Section 11376:**

- A. REPLACE Paragraph 1.03(A)(2) with the following paragraph:

"Certified Performance Test:

For all blowers of 30 hp and larger, a performance test in accordance with ASME PTC-9 (latest revision) *or ISO International Standard 1217 (latest revision)* shall be conducted on each blower to be supplied. A test report confirming capacity and power will be furnished to the Engineer."

- B. ADD the following sentence to Paragraph 2.01(G):

"In lieu of powder coat finish, the manufacturer may furnish an epoxy primer at 2.0-3.0 mils dry film thickness over the galvanized surface with two (2) coats of urethane finish at 2.0-3.0 mils dry film thickness per coat."

- C. REPLACE Paragraph 3.03(A) with the following paragraph:

"Provide any equipment manufacturer recommended spare parts as well as one (1) set of belts, **3 gallons** of recommended oil, and one (1) filter for each blower."

9. **SPECIFICATIONS, Section 13440:**

- A. REVISE Paragraph 2.01(A) with the following:

"...as detailed below. All PLC's must be compatible with the PLC's that are being provided by the SCADA Integrator; which is the Allen Bradley, Compact Logix family."

- B. ADD the following Paragraph 2.01(A)(e):

"Each PLC shall be provided with 2 MB of memory and 64 MB of nonvolatile memory."

- C. ADD the following Paragraph 2.02(A)(5):

"Each operator interface that is being provided on a control panel located outdoors shall be provided with a sunshield and rain guard."

10. **SPECIFICATIONS, Preliminary I/O List for SCADA Operating System (located at end of section 13410):**

“Change LE/LIT-100 to *LIT-100* and change the Description to *Bubbler System.*”

11. **SPECIFICATIONS, Section 16231:**

A. DELETE Paragraph 2.08(B)(2)

This Addendum Number Three (3) is issued this the 5th of January, 2012.

Joseph C. Williams, PE



McGILL ASSOCIATES, P.A.
CONSULTING ENGINEERS
ASHEVILLE, NORTH CAROLINA



07568

END OF ADDENDUM NO. 3

NOTE:
 CHAIN LINK FENCE ALIGNMENT REVISED TO
 ALLOW 18' CANTILEVER SLIDE GATE WITH
 AUTOMATIC ELECTRIC OPERATOR TO BE
 INSTALLED INSIDE THE FENCE LINE.

CATCH BASIN
 TOP EL.: 2042.15'
 I.E.: 2019.35'

PROPOSED
 6' CHAIN LINK FENCE WITH
 18' CANTILEVER SLIDE GATE
 WITH AUTOMATIC ELECTRIC
 OPERATOR. OPEN TOWARDS
 PUBLIC WORKS BUILDING.

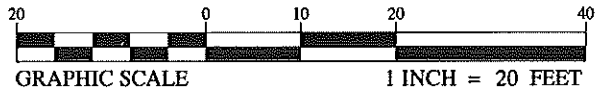
PROPOSED
 4'x4' PRECAST CONCRETE CATCH
 BASIN WITH FLAT TOP INSTALLED
 OVER EXISTING 18" CPP. ELEVATIONS
 TO BE FIELD COORDINATED.
 TOP EL.: 2048.50'
 BOTTOM EL.: 2032.50'
 15" I.E. IN (2 EA): 2040.00'

PROPOSED
 15" CPP (TYP)

PROPOSED
 3'x3' PRECAST CONCRETE CATCH
 BASIN WITH FLAT TOP PER DETAIL.
 ELEVATIONS TO BE FIELD
 COORDINATED.
 TOP EL.: 2044.00'
 15" I.E. OUT: 2040.50'

SP/NL/SET
 N: 586267.49
 E: 691273.64
 ELEV: 2043.93'

PLAN



C:\2007\07568\Combined_May 2011\Addendum No 3_C-109_WWTP Improvements Site Plan.dwg 11/4/2012 11:23 AM BRUN

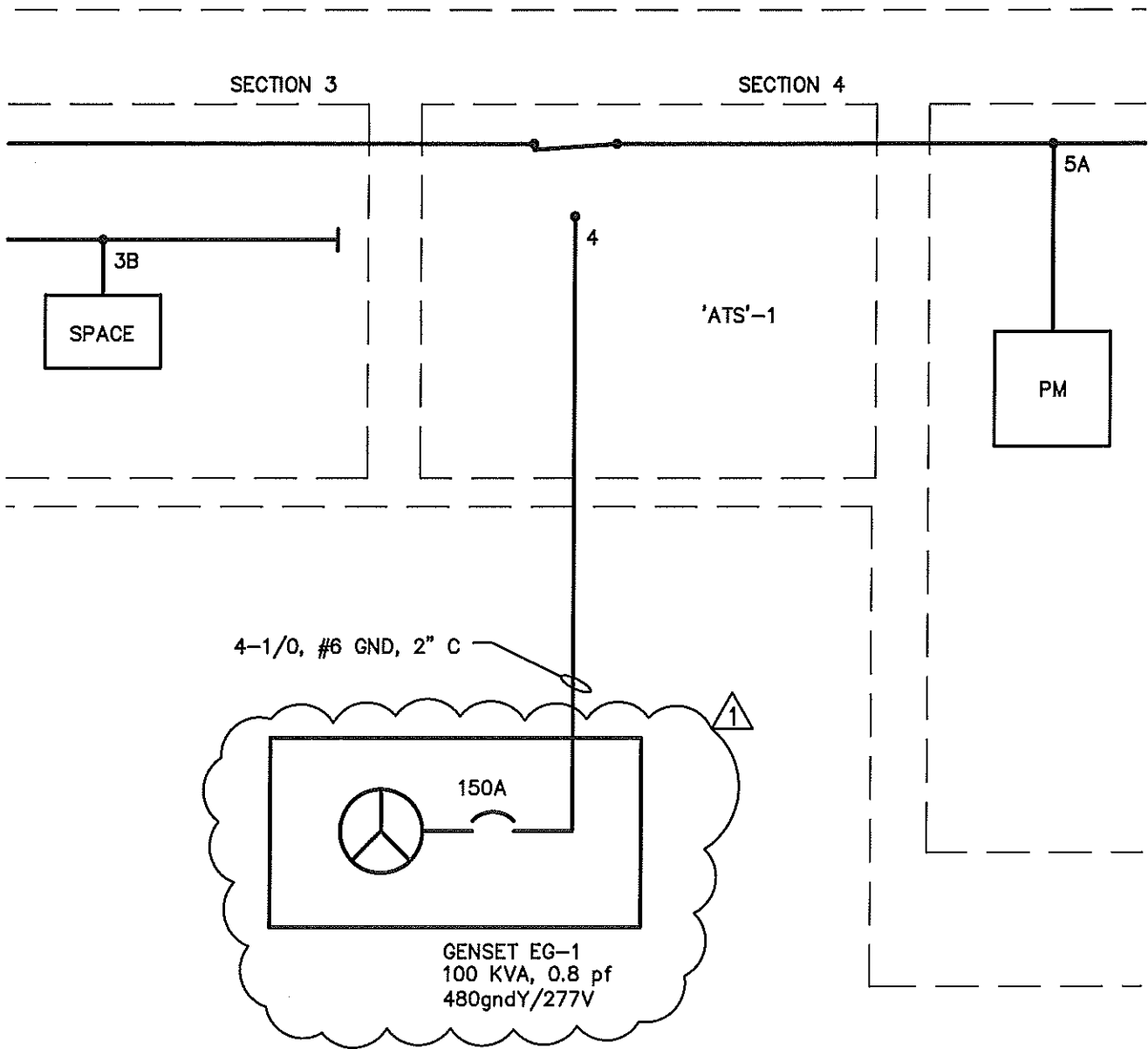
McGill
 ASSOCIATES
 ENGINEERING-PLANNING-FINANCE
 51 BROAD STREET ASHEVILLE, NC 28801 PH: (252) 352-6275 FAX: LICENSE # C-649

WASTEWATER SYSTEM IMPROVEMENTS
TOWN OF FRANKLIN
 MACON COUNTY, NORTH CAROLINA

JOB NO.:
 DATE:
 DESIGNED BY: JCW
 CADD BY: BW
 DESIGN REVIEW:
 CONST. REVIEW:
 Addendum No
 3_C-109_WWTP
 Improvements Site Plan.dwg

HEADWORKS / FLOW
 EQUALIZATION SITE
 IMPROVEMENTS PLAN
 FENCING REVISIONS

ADDENDUM
 No. 3
C-109A



POWER ONE-LINE
NOT TO SCALE

NO.	DATE	BY	REVISION DESCRIPTION
1	1/5/12	PAF	ADDENDUM NO. 3