Customer: Griffin, GA

Project: Potato Creek WPCP Expansion from 2.0 to 3.0 MGD

MR Quote #:Q16-3641-Rev. 2



March 11, 2016

Bill of Materials and Labor

04	T = <i>0</i>	Dana 1 (1
Qty	Tag/Loop	Description
		Section 16700 - Auxiliary Systems
1		SCADA Systems Software
		Co. E. C. O. C.
1		Wonderware Historian 2014R2 Standard - 5000 Tag
1		Wonderware Historian Client 2014R2 Per Named Use, 5 Pack
2		Remote Indus Data Acquisition Service 2014R2
1		Wonderware CAL with MS CAL Runtime, 5 Pack, SQL 2012 Std
		One Year Wonderware Customer First Standard Support
		Owner to provide hardware for software installation.
1		Lift Ctation DTIL Navy Lift Station DTIL
1		Lift Station RTU - New Lift Station RTU
		Enclosure
		48" H x 36" W x 12" D; #304SS Solar Shields
		Front of Panel Devices
		10.6" Full Color Touchscreen
		PLC
		Update Processor to Unity
		Add Required Signals
		I/O Capability:
		Available I/O: 28 DI, 22 DO, 12 AI, 6 AO
		Wired I/O: 21 DI, 5 DO, 8 AI, 2 AO
		Communications - Use Existing RTU Equipment for Communication to Main
		SCADA Panel
		Use Existing Radio
		Use Existing Antenna
		Use Existing Coax
		Use Existing Pole
		Miscellaneous
		Battery Backup
		Switch
		Heater and Thermostat
		LED Light Fixture
		RTU Door Limit Switch
		Communications to be provided via Radio to existing SCADA systems as currently designed.
		As discussed with Engineering, Fiber will not be used as indicated on the drawings (E-11).
1		Potato Creek Main SCADA Control Panel
		Enclosure
		Neman 12 Freestanding Enclosure
		Front of Panel Devices
		10.6" Full Color Touchscreen

Customer: Griffin, GA

Project: Potato Creek WPCP Expansion from 2.0 to 3.0 MGD

MR Quote #:Q16-3641-Rev. 2





Bill of Materials and Labor

		Description
		PLC
		Ethernet based PLC with I/O as required
		Digital I/O Surge Protection: Interposing Relays included
		Analog I/O Surge Protection: MR Systems' Kamikaze II
		Communications - All Items Deleted from Scope Rev 2 - 3/10/2016
		900MHz Spread Spectrum Radio to Main Control Panel
		Antenna
		Coax RF Surge Protector Enclosure
		Concrete Pole - appr. 60' agl
		Miscellaneous
		Panel UPS
		Ethernet Switch
		LED Panel Light
		AC Utility Power Outlet: GFI Outlet included
		Panel Door Intrusion Switch: Included
		The contractor shall provide conduit and grounding and is not included
		within MR Systems Scope
		Per conversations with the engineer, SBR VFDs, Future SBR VFDs, SBR Level and DO Probes
		and Future SBR Level and DO Probes' IO will be run to the SBR Control Panel and not the Potato
		Creek Main SCADA Control Panel as indicated on E-11.
	T	raining
		Maintenance Training
		Operator Training
		Supervisor and Applications Training
		Follow-up Training
	Project La	abor
One Lot	Pr	oject Engineering, Electrical Design, Mechanical Design, Drafting, and other miscellaneous
		Iministrative Labor (including Travel & Living expenses) as required to perform final system usign and to prepare Submittals and Record Drawings as required by the Contract Documents.
One Lot		VII Software Applications Development and Graphics Design Labor (including Travel & Living penses) as required by the Contract Documents.
One Lot		C Control Strategy Design & Programming Labor (including Travel & Living expenses) to be reformed as required by the Contract Documents.
One Lot		eld Service (including Travel & Living expenses) to provide installation supervision calibrations, artup, training, etc. as required by the Contract Documents.

Customer: Griffin, GA

Project: Potato Creek WPCP Expansion from 2.0 to 3.0 MGD

MR Quote #:Q16-3641-Rev. 2

March 11, 2016



Bill of Materials and Labor

Qty	Tag/Loop	Description
N/A		Electrical Installation or Terminations (including Travel & Living expenses) to provide installation of conduit, wire, etc. as required by the Contract Documents.
1 Year		Onsite Comprehensive Warranty (including Travel & Living expenses)
One Lot		Freight

Subtotal of Labor and Materials: \$193,786

State Sales Tax - NOT INCLUDED: \$

Total Project Cost: \$193,786

General Notes:

A * Sales Representation *

Mr. Scott Cockrell and Dan Carter, of Eco-Tech, Inc. in Canton, GA, are our local sales representatives and will contact you prior to the bid with pricing. Scott may be reached at 678-880-1203 (Office) or 678-251-6178 (Cell). Dan may be reached at 678-880-1222 (Office) or 404-822-3313 (Cell).

B * Technical Questions *

For technical or scope of supply questions contact Jim Bercik of MR Systems, Inc. Jim may be reached at 678-325-2820 (Office) or 770-634-7395 (Cell).

C * Installation of Conduit and Wire *

This quotation **DOES NOT INCLUDE** the supply or physical installation of conduit or wire unless specifically noted above.

D * Equipment Installation *

This quotation **DOES NOT INCLUDE** physical installation of field instruments, pipe, tubing, fittings, isolation valves, instrument stands, instrument mounts, control panels, antennas, masts, wooden poles, or other devices or other equipment unless specifically noted above.

* Wiring Terminations *

This quotation **INCLUDES** the termination of field wiring to field instruments, control panels, RTU panels, and/or other devices supplied under this scope of supply. Terminations of wiring to equipment supplied by Others are excluded unless specifically noted above.

F * Fiber Optics Cable *

This quotation **DOES NOT INCLUDE** the supply or physical installation of Fiber Optic Cable.

G * Fiber Optic Cable Termination *

This quotation DOES NOT INCLUDE termination or testing of fiber optics cable.

* Coaxial Cable Installation *

Customer: Griffin, GA Project: Potato Creek WPCP Expansion from 2.0 to 3.0 MGD

MR Quote #:Q16-3641-Rev. 2



March 11, 2016

Bill of Materials and Labor

Qty	Tag	Loop Description
		This quotation DOES NOT INCLUDE the physical installation of coaxial cable or other related components.
	I	* Installation of Communications Towers or Poles * This quotation DOES NOT INCLUDE the supply or physical installation of Communication Towers or Poles.
	J	* Contractor License Information * MR Systems' Georgia Electrical Contractors License Number is EN214384 (Non-Restricted).
	K	Intentionally left blank
	L	* Terms and Conditions * MR Systems, Inc. General Terms & Conditions of Sale apply to any order resulting from this quotation. Please refer to the link provided below for a copy of our General Terms and Conditions of Sale. http://www.mrsystems.com/poterms/
Revision Notes:		
Rev. 2		Second Issue - 2016-03-10 - WPK