

ORDINANCE NO. 2013- 3657

AN ORDINANCE TO AUTHORIZE THE EXPENDITURE AND DIRECT THE MAYOR AND THE SAFETY SERVICE DIRECTOR TO ENTER INTO A GUARANTEED MAXIMUM PRICE (GMP) AMENDMENT WITH THE CONSTRUCTION FIRM MWH CONSTRUCTORS, INC. TO ALLOCATE A PORTION OF THE \$57,000,000 DESIGNATED IN ORDINANCE 2012-3605 FOR AN AMOUNT NOT TO EXCEED \$1,880,671.53 FOR PHASE 2 IMPROVEMENTS TO THE FREMONT WATER POLLUTION CONTROL CENTER IN FREMONT, STATE OF OHIO AND DECLARING AN EMERGENCY.

WHEREAS, An amount not to exceed \$57,000,000 was authorized per Ordinance 2012-3605 for the original contract with MWH Constructors, Inc. for improvements to the Fremont Water Pollution Control Center, and

WHEREAS, There is a need to allocate a portion of the \$57,000,000 project authorized in Ordinance 2012-3605 for a guaranteed maximum price for Phase 2 improvements as an amount not to exceed \$1,880,671.53,

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL, CITY OF FREMONT, STATE OF OHIO:

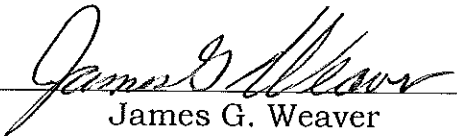
SECTION 1. The Fremont City Council hereby authorizes the expenditure and directs the Mayor and the Safety Service Director to enter into a Guaranteed Maximum Price (GMP) Amendment with the construction firm MWH Constructors, Inc. in an amount not to exceed \$1,880,671.53 for Phase 2 improvements to the Fremont Water Pollution Control Center. See attached Exhibit A.

SECTION 2. The \$1,880,671.53 shall be appropriated from Fund 590 Sewer Improvements Fund.

SECTION 3. It is hereby found and determined that all formal actions of this Council concerning and relating to the passage of this ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Revised Code of Ohio.

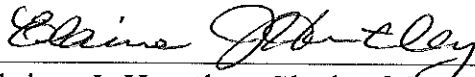
SECTION 4. The immediate operation of the provisions of this ordinance is necessary for the immediate preservation of the public peace, health, safety and welfare of the citizens of the City of Fremont. Said emergency being the need to secure financing from Ohio Water Development Authority (OWDA) for Phase 2 improvements to the Fremont Water Pollution Control Center in order to comply with time deadlines set by the Ohio EPA and to prevent combined sewer overflows from occurring in the future.

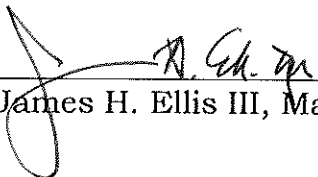
This ordinance, provided it receives a two-thirds yea or nay vote of all the members elected to the Fremont City Council, is hereby declared to be an emergency measure and this ordinance shall be in full force and effect from and after its passage by the Council of the City of Fremont, approval by the Mayor, and publication and posting as required by law.


James G. Weaver
President of Council

PASSED: 9-19-13
Effective Date: 9-19-13

YEAS: 7 NAYS: 0


Elaine J. Huntley, Clerk of Council


James H. Ellis III, Mayor

ORD1811

Approved as to form:

A handwritten signature in black ink, consisting of a large, stylized 'J' followed by 'F' and 'Melle'.

James F. Melle, Director of Law
City of Fremont, Ohio

GMP Amendment #2

Phase 2

The CITY OF FREMONT OHIO, acting by and through the Contracting Authority, and the CM enter into this Amendment as of the date set forth below to amend the Contract they entered into as of the date set forth below in connection with the Project known as:

Project Name: Fremont WPCG 2012
 Contracting Authority: Safety Service Director
 Construction Manager ("CM"): MWH Constructors, Inc.

ARTICLE 1 - CONTRACT SUM AND RELATED ITEMS

1.1 The total Phase 1 Guaranteed Maximum Price ("GMP") is \$1,880,671.53 which is the sum of the estimated Cost of the Work, plus the CM's Contingency, plus the CM's Fee, plus the Alternates, as follows:

1.1.1 The estimated Cost of the Work is \$1,738,947.32 which includes the sum of:

1.1.1.1 CM's Construction Stage Personnel Costs in the amount of \$367,371.96 for staff through December 31, 2013;

1.1.1.2 General Conditions Costs in the amount of \$25,660.36, which shall not exceed 1.5 percent of the Cost of the Work;

1.1.1.3 all Work the CM proposes to provide through Subcontractors in the amount of \$1,343,319.00;

1.1.1.4 Builder's Risk Insurance Premium Costs in the amount of \$2,596.00;

1.1.2 The CM's Contingency in the amount of \$86,947.37 which is 5 percent of the above-identified Cost of the Work.

1.1.3 The CM's Fee in the amount of \$54,776.84 which is 3 percent of the sum of the above-identified Cost of the Work plus the above-identified CM's Contingency.

ARTICLE 2 - CONTRACT TIMES

2.1 The Contract Times are the periods of time established in the following table for the achievement of the associated Milestones:

Construction Stage Milestone	Contract Time
Waste Gas Burner Installation Complete	105 days after Notice to Proceed
Complete Piling Installation	100 days after Notice to Proceed
Under-slab Piping Delivered	85 days after Notice to Proceed

ARTICLE 3 - LIST OF EXHIBITS

3.1 This Amendment is based upon the following documents:

- 3.1.1 Basis Documents attached at GMP Exhibit A;
- 3.1.2 Assumptions and Clarifications attached at GMP Exhibit B;
- 3.1.3 Project Estimate attached at GMP Exhibit C;
- 3.1.4 Project Schedule attached at GMP Exhibit D;
- 3.1.5 Staffing Plan attached at GMP Exhibit F;
- 3.1.6 Subcontractor Work Scopes attached at GMP Exhibit G;
- 3.1.7 N/A
- 3.1.8 Schedule of Unit Prices attached at GMP Exhibit J
- 3.1.9 N/A

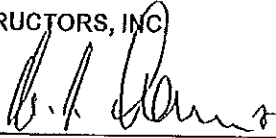
SIGNATURES

IN WITNESS WHEREOF, the parties hereto have executed this GMP Amendment as of the date set forth below:

MWH CONSTRUCTORS, INC

CONTRACTING AUTHORITY

Signature



Signature

Printed Name

M. L. HARRIS

Printed Name

Title

DIRECTOR OPERATIONS
EAST COAST

Title

Date

OWNER'S CONCURRENCE

CITY OF FREMONT, OHIO

Signature

Printed Name

Title

END OF DOCUMENT

GMP Exhibit A – Basis Documents

This exhibit includes a list of all the Drawings, Specifications, and other documents, upon which this Amendment was prepared.

Specifications:

ATTACHMENT 1 SPECIFICATION LIST			
SPECIFICATION NO.	TITLE	DATE	REVISION NO.
DIVISION 1 - GENERAL REQUIREMENTS			
01 33 00	CONTRACTOR SUBMITTALS	3/19/2013	
01 42 13	ABBREVIATIONS OF INSTITUTIONS	1/8/2013	
01 42 19	REFERENCE STANDARDS	2/20/2013	
01 45 00	QUALITY CONTROL	1/8/2013	
01 57 19	TEMPORARY ENVIRONMENTAL CONTROLS	2/20/2013	
01 60 00	PRODUCTS, MATERIALS, EQUIPMENT AND SUBSTITUTIONS	2/20/2013	
01 77 00	PROJECT CLOSEOUT	2/20/2013	
DIVISION 3 CONCRETE			
03 21 00	REINFORCEMENT STEEL	2/8/2013	
03 31 00	CAST-IN-PLACE CONCRETE	2/27/2013	
03 60 00	GROUTING	2/20/2013	
DIVISION 26 - ELECTRICAL			
26 00 00	ELECTRICAL WORK, GENERAL	7/15/2013	
26 05 15	INDUSTRIAL CONTROL PANELS	7/15/2013	
26 05 19	WIRE & CABLING	7/15/2013	
26 05 26	GROUNDING	7/15/2013	
26 05 33	ELECTRICAL RACEWAY SYSTEMS	7/15/2013	
26 05 36	WIRING DEVICES	7/15/2013	
26 05 43	UNDERGROUND RACEWAY SYSTEMS	7/15/2013	
26 05 53	ELECTRICAL IDENTIFICATION	7/15/2013	

26 33 53	UNININTERRUPTIBLE POWER, SINGLE PHASE	7/15/2013
DIVISION 31 - EARTHWORK		
31 63 16	AUGER CAST-IN-PLACE PILES	3/18/2013
DIVISION 33 - UTILITIES		
33 92 20	DUCTILE IRON PIPING	7/15/2013
DIVISION 43 - PROCESS GASS & LIQUID HANDLING, PURIFICATION, AND STORAGE EQUIPMENT		
43 10 50	PIPING, GENERAL	7/15/2013

Drawings:

ATTACHMENT 2 DRAWING LIST				
SHEET NO.	DWG NO.	SHEET TITLE/ DESCRIPTION	DATE	REVISION NO.
GS	1	General Notes & Design Criteria - I	6/11/2013	
GS	2	General Notes & Design Criteria - II	6/11/2013	
GS	8	Standard Details - V	6/11/2013	
GS	17	Standard Details - XIV	6/20/2013	
GS	21	Standard Details - XVIII	6/11/2013	
13S	1	Grit Facility Structural Pile Plan	6/11/2013	
13S	2	Grit Facility Structural Foundation Plan at EL 577.00	6/11/2013	
13S	7	Grit Facility Structural Sections and Details - I	6/11/2013	
13S	8	Grit Facility Structural Sections and Details - II	6/11/2013	
13S	9	Grit facility Structural Sections and Details - III	6/11/2013	
13S	10	Grit facility Structural Sections and Details - IV	6/11/2013	
13S	11	Grit facility Structural Sections and Details - V	6/11/2013	
30S	1	A20 Structural Overall Plan	6/11/2013	
30S	2	A20 Structural Pile Plan	6/11/2013	
30S	3	A20 Structural Foundation Plan at EL 573.50	6/11/2013	
30S	5	A20 Structural Sections and Details - I	6/11/2013	
30S	6	A20 Structural Sections and Details - II	6/11/2013	
30S	7	A20 Structural Flow Splitter Box Plans and Sections	6/11/2013	
30S	8	A20 Structural Drain Pump Station Plans and Sections	6/11/2013	
35S	1	Clarifiers Structural Pile Plan	6/11/2013	
35S	2	Clarifiers Structural Bottom Plan	6/11/2013	

35S	4	Clarifiers Structural Sections and Details - I	6/11/2013
35S	5	Clarifiers Structural Sections and Details - II	6/11/2013
35S	9	RAS/Thickening Building Structure Pile Plan	6/11/2013
35S	10	RAS/Thickening Building Structure Basement Floor Plan	6/11/2013
35S	15	RAS/Thickening Building Structural Sections and Details - I	6/11/2013
35S	16	RAS/Thickening Building Structural Sections and Details - II	6/11/2013
GM	1	Standard Details -I	7/15/2013
GM	2	Standard Details -II	7/15/2013
GM	3	Standard Details -III	7/15/2013
GM	4	Standard Details -IV	7/15/2013
GM	5	Standard Details -V	7/15/2013
GM	6	Standard Details -VI	7/15/2013
GM	7	Standard Details -VII	7/15/2013
GM	8	Standard Details -VIII	7/15/2013
30M	1	A20 Floor Plan at Elev. 592.66	7/15/2013
30M	2	A20 Floor Plan at Elev. 605.50	7/15/2013
30M	3	A20 Section I	7/15/2013
30M	4	A20 Section II	7/15/2013
30M	5	A20 Section III	7/15/2013
30M	6	A20 Section IV	7/15/2013
30M	7	A20 Drain Pump Station Overall Plan and Section	7/15/2013
30M	8	A20 Effluent Channel Piping Details	7/15/2013
35M	1	Clarifiers Overall Plan	7/15/2013
35M	2	Clarifiers Enlarged Plan	7/15/2013
35M	3	Clarifiers Section I	7/15/2013
35M	4	Clarifiers Section 2	7/15/2013
35M	5	Clarifiers Spillter Box Plan and Sections	7/15/2013
35M	7	RAS / Thickening Building Floor Plan at Elev. 584.00	7/15/2013
35M	8	RAS / Thickening Building Floor Plan at Elev. 602.69	7/15/2013
35M	9	RAS / Thickening Building Sections - I	7/15/2013
35M	10	RAS / Thickening Building Sections - II	7/15/2013
35M	11	RAS / Thickening Building Sections - III	7/15/2013
50DM	4	Sludge Digestion Tanks & Control House – Mechanical – Roof Plan	
1M	2	Waste Gas Burner – Mechanical – Partial Plans & Details	5/2/2012
1M	3	Waste Gas Burner – Mechanical – Sections &	7/2/2013

		Details		
1M	4	Waste Gas Burner – Mechanical – Schematics & Details	7/2/2013	
1E	2A	Waste Gas Burner – Electrical – Partial Site Plann – II	7/2/2013	

Other Documents:

OTHER DOCUMENTS				
SHEET NO.	DWG NO.	SHEET TITLE/ DESCRIPTION	DATE	REVISION NO.
		Strom Water Pollution Prevention Plan	1/14/2013	

GMP Exhibit B – Assumptions & Clarifications

This exhibit includes a list of the assumptions and clarifications made by the CM in the preparation of this Amendment. These Assumptions & Clarifications only apply to GMP #2 except as otherwise noted.

1. Notice to Proceed will be issued by September 20, 2013.
2. There is no piling under the 4 existing Sludge Holding Tanks to be demolished.
3. No contaminated soils or rock will be encountered.
4. The piling pricing is based on the tip elevations given on drawing GS-17 of the contract documents. The actual installed pile lengths may vary depending on the actual elevation of the hardpan layer. The variance between the bid and actual quantities will be billed or credited in accordance with the unit prices established in GMP Exhibit J – Schedule of Unit Prices.
5. There will be no charge to the CM for power or water consumed for construction.
6. The quoted bond premium in this GMP has been reduced to achieve savings for the Owner on this GMP and additional savings on any follow-on GMP. This pricing is subject to the Contract being amended to reflect that CM is providing bonds on a GMP by GMP basis as permitted under the Contract. CM has approval from its sureties to reduce future bond premium rates, provided that the following approved language is included in a Contract Amendment:

In lieu of providing bonds in the estimated cost of the entire Project CM shall provide a performance bond and a payment bond in the amount of each GMP Amendment ("GMP Bond"). Each respective GMP Bond will apply only to the GMP Amendment for which they were issued. The failure of a surety to provide a Performance and Payment bond on a subsequent GMP Amendment will not constitute a default under any other issued bond; the penal sum for any specific GMP Bond will not aggregate with any other Performance and Payment bond. As permitted by the Agreement, CM may achieve Contract Completion by Phase or by each GMP Amendment. The cumulative value of the GMP Bonds will equal the overall Contract price for the entire Project, as may be amended from time to time.

If this is not accepted the premium will increase by approximately \$2,000 on GMP 2 and CM will not be able to obtain reduced bond premiums on any follow-on GMP.

GMP Exhibit C – Project Estimate

This exhibit includes detailed back up of the proposed GMP Value.

1. The CM Construction Stage Personnel Cost is detailed in the table below:

Staff Description	Staff Name	Total Hours	Billable Rate	Total
Regional Operations Manager / Principle	Michael Harris	50	\$255.70	\$12,785.00
Project Manager	Bryan Canzoneri	496	\$128.89	\$63,929.44
General Superintendent	Doug Hart	496	\$178.42	\$88,496.32
Project Controls	Nichole Jenkins	496	\$122.57	\$60,794.72
Safety Lead	Terri Sparks	298	\$96.31	\$28,700.38
Regional Safety Manager	Barry McLaughlin	99	\$144.24	\$14,279.76
Field Engineer	William Wigglesworth	496	\$74.88	\$37,140.48
Administrative Assistant	Jill Bosh	496	\$53.82	\$26,694.72
Controls Support	Support	99	\$107.64	\$10,656.36
Estimating	Support	25	\$202.02	\$5,050.50
Contracts / Procurement / Risk	Support	124	\$151.97	\$18,844.28
Total				\$367,371.96

2. The General Conditions Costs are detailed in the table below:

Description	UOM	QTY	Unit Price	Total Price
Telephone (Cell Phone Monthly Charge)	Month	14	\$65.00	\$910.00
Telephone Charges	EA	0	-	-
Facsimile	Month	0	-	-
Telegrams	EA	0	-	-

Postage.	Month	2	\$550.00	\$1,100.00
Photos (aerial)	EA	2	\$375.00	\$750.00
Photocopying	Month	2	\$1,000.00	\$2,000.00
Hand Tools	EA	0	-	-
Simple Scaffolds (one level high)	EA	0	-	-
Tool Breakage	EA	0	-	-
Tool Repairs	EA	0	-	-
Tool Replacement	EA	0	-	-
Tool Blades	EA	0	-	-
Tool Bits	EA	0	-	-
Pre-approved travel, lodging and parking costs (includes 3 months of lodging costs)	EA	1	\$19,316.00	\$19,316.00
Bond Premium (quote)	EA	1	\$12,564.00	\$12,564.00
Total				\$36,640.00

The General Conditions costs shall not exceed 1.5% of the Cost of Work, which is \$25,660.36.

3. The total Subcontractor & Vendor cost is detailed below.

S-03 Site Services				
Description	Qty	Unit	Unit Price	Total Price
Construction Office Rental	2	Monthly	\$1,275.00	\$2,550.00
Dumpsters	2	Monthly	\$150.00	\$300.00
Site Sanitary Facilities	2	Monthly	\$175.00	\$350.00
Monthly Internet	2	Monthly	\$ 325.00	\$650.00
Safety Equipment	2	Monthly	\$1,500.00	\$3,000.00
Office Supplies	2	Monthly	\$1,000.00	\$2,000.00

Dust Control	2	Monthly	\$400.00	\$800.00
Mobile Collaboration System	2	Monthly	\$60.00	\$120.00
Project Trucks	4	Monthly	\$900.00	\$3,600.00
Computers	12	Monthly	\$85.00	\$1,020.00
S-03 Total Cost				\$14,390.00
S-04 Waste Gas Burner Electrical				
Description	Qty	Unit	Unit Price	Total Price
Installation of Waste Gas Burner Electrical	1	LS	\$6,225.00	\$6,225.00
S-04 Total Cost				\$6,225.00
S-05 Waste Gas Burner Installation				
Description	Qty	Unit	Unit Price	Total Price
Installation of Waste Gas Burner	1	LS	\$46,975.00	\$46,975.00
S-05 Total Cost				\$46,975.00
S-06 Site Surveying Services				
Description	Qty	Unit	Unit Price	Total Price
One Person GPS Survey Crew	30	HR	\$100.00	\$3,000.00
Two Person GPS Survey Crew	20	HR	\$132.00	\$2,640.00
S-06 Total Cost				\$5,640.00
S-07 Material Testing Services				
Description	Qty	Unit	Unit Price	Total Price
Grout Cubes	864	EA	\$8.00	\$6,912.00
Soils Testing Technician (other)	576	HR	\$39.00	\$22,464.00
Soils Testing Technician (OT Rate)	144	HR	\$58.00	\$8,352.00

Engineer Level I	25	HR	\$69.00	\$1,725.00
S-07 Total Cost				\$39,453.00
S-08 Auger Cast-In-Place Piling				
Description	Qty	Unit	Unit Price	Total Price
Pre-Construction Testing	1	LS	\$94,440.00	\$94,440.00
A20 Piling	1	LS	\$390,150.00	\$390,150.00
Clarifier Piling	1	LS	\$370,840.00	\$370,840.00
RAS Thickening Facility Piling	1	LS	\$65,880.00	\$65,880.00
Grit Facility Piling	1	LS	\$56,730.00	\$56,730.00
S-08 Total Cost				\$978,040.00
P-34 Waste Gas Burner Equipment				
Description	Qty	Unit	Unit Price	Total Price
3" All Weather Conservation Vent with Flam Arrestor	1	LS	\$2,592.00	\$2,592.00
2 ½ quart manually operated drip trap	1	LS	\$717.00	\$717.00
3" Pedestal Type Waste Gas Burner (including ignition system, flame trap assembly, and flame check)	1	LS	\$16,027.00	\$16,027.00
Submittal Package	1	LS	\$400.00	\$400.00
Vendor Services	1	LS	\$1,000.00	\$1,000.00
P-34 Total Cost				\$20,736.00
P-35 Under-slab Piping Procurement				
Description	Qty	Unit	Unit Price	Total Price

Shop Drawings	1	LS	\$3,000.00	\$3,000.00
36" ML Piping	1	LS	\$141,378.00	\$141,378.00
16" RAS Piping	1	LS	\$46,398.00	\$46,398.00
10" Plant Drain Piping	1	LS	\$41,084.00	\$41,084.00
P-35 Total Cost				\$231,860.00
Total Subcontractor & Vendor Cost				\$1,343,319.00

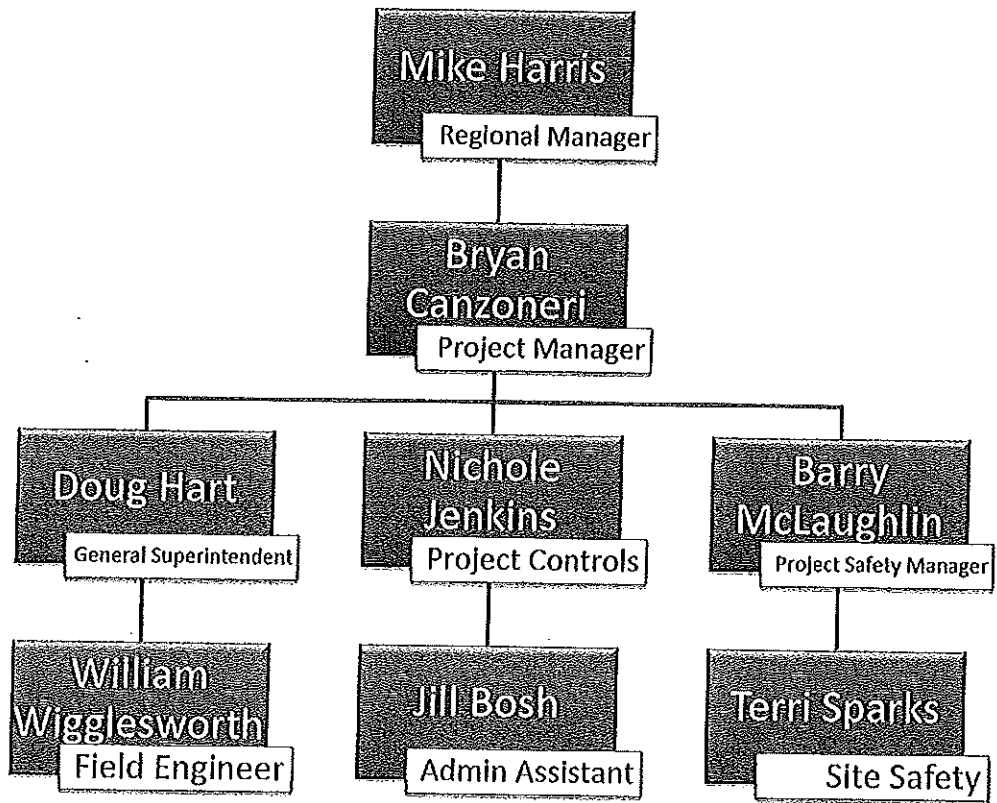
Fremont WPCC - GMP #2

Activity ID	Activity Name	Original Duration	Start	Finish	2014												
					Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
Fremont WPCC Improvements Project			76	20-Sep-13	03-Jan-14	03-Jan-14, Fremont WPCC Improvements											
CONSTRUCTION			76	20-Sep-13	03-Jan-14	03-Jan-14, CONSTRUCTION											
GMP 2 - PILING			76	20-Sep-13	03-Jan-14	03-Jan-14, GMP 2 - PILING											
A1050	ISSUE PILING NTP	0	20-Sep-13			◆ ISSUE PILING NTP											
A2420	ISSUE WASTE GAS BURNER PURCHASE AGREEMENT	5	20-Sep-13	28-Sep-13		□ ISSUE WASTE GAS BURNER PURCHASE AGREEMENT											
A2380	ISSUE PIPE PURCHASE AGREEMENT	10	20-Sep-13	03-Oct-13		□ ISSUE PIPE PURCHASE AGREEMENT											
A2310	PILING SUB MOBILIZATION	5	04-Oct-13	10-Oct-13		□ PILING SUB MOBILIZATION											
A2300	PILING SUBMITTALS	20	20-Sep-13	17-Oct-13		□ PILING SUBMITTALS											
A2430	SUBMIT / APPROVE WASTE GAS BURNER	15	27-Sep-13	17-Oct-13		□ SUBMIT / APPROVE WASTE GAS BURNER											
A2390	SUBMIT / APPROVE PIPE SHOP DRAWINGS	20	04-Oct-13	31-Oct-13		□ SUBMIT / APPROVE PIPE SHOP DRAWINGS											
A1070	PRE-PRODUCTION PILE TESTING	18	18-Oct-13	12-Nov-13		□ PRE-PRODUCTION PILE TESTING											
A2410	FABRICATE / DELIVER PIPE	30	01-Nov-13	12-Dec-13		□ FABRICATE / DELIVER PIPE											
A2450	FABRICATE / DELIVER WASTE GAS BURNER	50	18-Oct-13	26-Dec-13		□ FABRICATE / DELIVER WASTE GAS BURNER											
A1060	A2O, CLARIFIER, RAS, & GRIT PILING	34	13-Nov-13	30-Dec-13		□ A2O, CLARIFIER, RAS, & GRIT PILING											
A2460	INSTALL WASTE GAS BURNER	6	27-Dec-13	03-Jan-14		□ INSTALL WASTE GAS BURNER											
A2470	GMP 2 COMPLETE	0		03-Jan-14		◆ GMP 2 COMPLETE											

Remaining Level of Effort
 Remaining ...
 Actual Level of Effort
 Critical Rem...
 Actual Work
 ◆ Milestone

GMP EXHIBIT D
PROJECT SCHEDULE

GMP Exhibit F – Staffing Plan



GMP 2 Exhibit G – Subcontractors Work Scopes

This exhibit includes a detailed scope of work description for each anticipated subcontract.

1. **S-03 – Site Services** – The materials and services provided under this work package are necessary to support the work on site. These items are either one time or recurring cost and will generally be procured from local providers. A list of the products and services included in this work package is provided in Exhibit C, along with the associated cost for each item.
2. **S-04 – Waste Gas Burner Electrical Installation** – The Subcontractor's Scope of Work is to furnish and install the Waste Gas Burner electrical components whole and complete in accordance with the Contract Documents. The Waste Gas Burner Vendor control panel will be provided By Others.
3. **S-05 – Waste Gas Burner Installation** – The Subcontractor's Scope of Work is to furnish and install the Waste Gas Burner in accordance with the Contract Documents. The following equipment will be furnished By Others and installed by the Subcontractor:
 - 3.1 Flame Arrestor
 - 3.2 Pressure Relief Valve
 - 3.3 Manually Operated Drip Trap
 - 3.4 Waste Gas Burner
 - 3.5 Flame Trap Assembly
 - 3.6 Flame Check Valve
 - 3.7 Ignition System
4. **S-06 Site Surveying Services** – This Subcontractor shall provide professional surveying services as necessary to support the project.
5. **S-07 - Material Testing Services** – The Subcontractor's Scope of work is to perform the construction materials testing and inspection services necessary to support the installation of the Auger Cast-In-Place Piling.
6. **S-08 - Auger Cast-In-Place Piling** - The Subcontractor's Scope of Work is to furnish and install the auger cast-in-place piles for the Grit Facility, A2O Tanks, Clarifiers, and RAS Thickening Facility whole and complete in accordance with the Subcontract Documents, subject to the Exclusions and Clarifications noted below.
 - 6.1. Exclusions
 - 6.1.1 Piling for the Administration Building and UV / Effluent Pump Station are specifically excluded from this scope of work.

6.2. Clarifications

6.1.1 The site will be excavated to subgrade By Others. A 14" layer of stone will be placed under the structures and brought to the bottom slab elevations by Others. The stone provided will be 12" of ODOT #1 and #2 crushed aggregate with a 2" topping of ODOT 304. The Subcontractor will be given the site at the following grades to install piles:

6.2.1.1. The Grit Area will be at elevation 573.5'.

6.2.1.2. The A2O Area will be at elevation 571.0'.

6.2.1.3. The Clarifier Area will be at elevation 568.5'.

6.2.1.4. The RAS Thickening Facility will be at elevation 567.0'.

6.1.2 The Subcontractor shall be responsible for any excavation required to place the top of pile at the proper elevation according to the Subcontract Documents. Any excavation support required for installation of piles is the responsibility of the Subcontractor.

6.1.3 The Subcontractor shall be responsible for spoils control at all times. Subcontractor shall be responsible for disposal of spoils offsite.

6.1.4 The Subcontractor shall provide steel casing or other materials in accordance with the Subcontract Documents as required to achieve the proper top elevation of the piles.

6.1.5 The Subcontractor shall be responsible for pile tests in accordance with the Subcontract Documents.

6.1.6 Subcontractor is responsible for any dewatering activities that may be required to perform the Subcontractor's associated Work.

6.1.7 The Subcontractor is responsible for furnishing and installing lap and hook bars in the top of piles in accordance with the Subcontract Documents.

7. P-34 - Waste Gas Burner Equipment – The seller is required to provide all Waste Gas Burner equipment in accordance with the contract documents.

8. **P-35 - Liquids Buried Process Piping** – The seller is required to provide buried process piping for the Clarifiers and the A20 structure in accordance with the contract documents. Specifically, the Seller will provide all material required to install the piping systems described below, including but not limited to pipe, fittings, caps, sleeves, restraint assemblies, gaskets, and polywrap.

8.1. 36" ML Piping depicted on Contract Drawing 35M-1

8.2. 16" RAS Piping depicted on Contract Drawing 35M-1

8.3. 10" PD Piping depicted on Contract Drawings 30M-1 and 35M-1

GMP Exhibit J – Schedule of Unit Prices

1. The piling pricing is based on the tip elevations given on drawing GS-17 of the contract documents. The actual installed pile lengths may vary depending on the actual elevation of the hardpan layer. The variance between the bid and actual quantities will be billed or credited in accordance with the following schedule:

Description	UOM	Add	Deduct
14" Auger Cast Piles	Linear Foot	\$29.40	\$7.00
18" Auger Cast Piles	Linear Foot	\$44.45	\$11.00
24" Auger Cast Piles	Linear Foot	\$65.00	\$20.00