

ADDENDUM # 1

Project No.:	19-0101	Date:	April 13, 2020
Project:	WWTP Headworks Improvements	A/E Firm:	C2AE
Owner:	City of Owosso Shiawassee County, Michigan	Project Manager:	Brian W. VanZee

The following changes, revisions, modifications, etc. shall be incorporated into the contract documents, specifications, and plans.

BID FORM

A1.1 Refer to page 2, Article 1.6, A. The Bidder shall acknowledge receipt of Addendum 1 by indicating so in the spaces provided on page 2.

BID PROCESS

A1.2 Prospective bidders will not be able to attend the bid opening as City Hall is currently closed to visitors due to COVID-19 guidelines.

A1.3 Sealed Bids for the construction of the Project will be received ~~at the City of Owosso, Office of City Clerk located at 301 West Main Street, Owosso, Michigan 48867,~~ **via a C2AE email lockbox, owossoheadworks bids@c2ae.com as a scanned PDF attachment until Tuesday, April 21 at 3:00 pm local time.** ~~At that time the Bids received will be publicly opened and read aloud.~~

A1.4 The bid opening will be conducted on Facebook Live (shortly after 3:00 pm), this can be accessed through the following link: <https://www.facebook.com/Owosso/>

A1.5 Original bid documents shall be shipped next day air. Bidders will not be held responsible for overnight delivery service delays as long as the documents were shipped by Tuesday, April 21 by 3:00 pm.

SPECIFICATIONS

A1.3 Specification 0045556, Davis-Bacon/Prevailing Federal Wage (Re-Issued)
Remove Specification Section 0045556 entirely, **ADD** 0045556 with construction type "Michigan Heavy MI20200044, 1/24/2020.

A1.5 Specification 400523.15, Gate Valves for Plumbing Piping (Issued)
Refer to Section 400523-2.9B, **REMOVE** AWWA C501 and **ADD** AWWA C560

QUESTIONS AND ANSWERS

1. **Q:** Can we be added to the specification and allowed to bid.
A: We are not going to add suppliers names to the specification as there have been multiple request for almost every specification. Our intent of the “Or Equal” is to allow and consider all suppliers as long as product meets specification.

2. **Q:** Wanted to confirm I am reading the coating schedule correctly in Section 099710 – Special Coatings. Am I correct in reading this section with the understanding that the 2.5.C coating system (Modified polyurethane coating for new construction) and the 2.5.D coating system (Modified polyurethane coating for existing painted surfaces) are NOT called out for in this project?
A: Project will be following Section 099710-2.5.D, Modified polyurethane coating for existing painted surfaces.

3. **Q:** There is a line off the existing sampler going to the grit chamber with a label saying “Connect to existing sampler discharge” but gives no information.
A: existing line will be cut off outside headworks building to install new Vortex chamber. It will be required to connect onto existing pipe with SCH40 PVC and extend roughly 15ft to new discharge point into Vortex chamber.

4. **Q:** In the Grit Chamber there is a 1” CA line. Is this line Black Iron Epoxy coated through the 2” PVC sleeve back to the Sludge Thickener Room?
A: There is a new (SCH 40 black iron epoxy coated) air line. New line will be connected to existing in airline in sludge thickener room, then ran through sleeve in west wall underneath new Vortex chamber, and up through floor of headworks building. This line will follow same path as proposed 2-inch PEW shown on C-104

5. **Q:** Do not see a Pipe Schedule in the prints. Specifically looking for the (DIP) fittings and lining.
A: Refer to added specification section 400523, materials are also called out on the plan drawings.

Add'l. Attachments:

- Disadvantaged Business Enterprise (DBE) Good Faith Effort (GFE) Solicitations A Quick Summary of the SRF/DWRF Requirements for Prime Bidders
- Pre-Bid Meeting Minutes – April 2, 2020
- Current Plan Holders List

"General Decision Number: MI20200044 01/24/2020

Superseded General Decision Number: MI20190044

State: Michigan

Construction Type: Heavy

Counties: Arenac, Branch, Gladwin, Hillsdale, Huron, Lenawee, Mecosta, Midland, Osceola, Shiawassee and Tuscola Counties in Michigan.

Heavy, Includes Water, Sewer Lines and Excavation (Excludes Hazardous Waste Removal; Coal, Oil, Gas, Duct and other similar Pipeline Construction)

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.80 for calendar year 2020 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.80 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2020. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number Publication Date

0 01/03/2020

1 01/24/2020

CARP0100-005 06/01/2019

MECOSTA & OSCEOLA COUNTIES

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 23.01	19.84

CARP0525-008 06/01/2019		

BRANCH & HILLSDALE COUNTIES

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 23.66	20.19

CARP0706-014 06/01/2019		

ARENAC, GLADWIN, HURON, MIDLAND & TUSCOLA COUNTIES

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 26.61	21.54

CARP0706-018 06/01/2019		

SHIAWASSEE COUNTY

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 27.21	21.54

CARP1004-013 06/01/2019		

LENAWEE COUNTY

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 25.06	20.51

ELEC0008-012 05/27/2019		

HILLSDALE & LENAWE COUNTY

	Rates	Fringes
ELECTRICIAN.....	\$ 40.45	22.05

ELEC0058-008 07/01/2018		

HURON COUNTY

	Rates	Fringes
ELECTRICIAN.....	\$ 41.28	24.03

ELEC0275-009 05/27/2019		

MECOSTA COUNTY

	Rates	Fringes
ELECTRICIAN.....	\$ 31.28	20.43

ELEC0275-014 05/27/2019		

OSCEOLA COUNTY (Townships of Richmond, Hersey, Ewart & Orient)

	Rates	Fringes
ELECTRICIAN.....	\$ 31.28	20.43

ELEC0445-008 05/27/2019		

BRANCH COUNTY

	Rates	Fringes
ELECTRICIAN.....	\$ 33.05	20.70

ELEC0498-012 06/01/2019		

OSCEOLA COUNTY (does not include the townships of Ewart, Hersey, Orient and Richmond)

	Rates	Fringes
ELECTRICIAN.....	\$ 30.58	19.14

ELEC0557-008 05/27/2019		

MIDLAND (Townships of Ingersoll, Jasper, Mount Haley and Porter) & TUSCOLA (Townships of Almer, Arbela, Columbia, Dayton, Denmark, Elkland, Ellington, Elmwood, Fairgrove, Fremont, Gilford, Indianfields, Juniata, Kingston, Koylon, Novesta, Tuscola, Vassar, Watertown and Wells) COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 33.75	22.23

* ELEC0665-018 06/02/2019

SHIAWASSEE COUNTY (Townships of Perry & Woodhull)

	Rates	Fringes
ELECTRICIAN.....	\$ 36.17	24.20

ELEC0692-017 05/27/2019

ARENAC & GLADWIN COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 33.00	20.00

ELEC0692-018 05/27/2019

MIDLAND (All townships except Mount Haley, Jasper, Porter & Ingersoll) & TUSCOLA (Townships of Wisner & Akron) COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 33.00	20.00

ELEC0948-008 05/26/2019

SHIAWASSEE (All townships except Perry & Woodhull) & TUSCOLA (Township of Millington) COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 38.31	23.06

ENGI0325-021 09/01/2019

POWER EQUIPMENT OPERATORS: Underground Construction (Including Sewer)

Rates Fringes

POWER EQUIPMENT OPERATOR

GROUP 1.....	\$ 32.92	24.35
GROUP 2.....	\$ 28.03	24.35
GROUP 3.....	\$ 27.53	24.35
GROUP 4.....	\$ 27.25	24.35

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Backhoe/ Excavator, Boring Machine, Bulldozer, Crane, Scraper, Loader, Trencher (over 8 ft. digging capacity)

GROUP 2: Trencher (8-ft digging capacity and smaller)

GROUP 3: Boom Truck (non-swinging, non- powered type boom)

GROUP 4: Broom/ Sweeper, Fork Truck, Tractor

 ENGI0326-014 06/01/2019

EXCLUDES UNDERGROUND CONSTRUCTION

AREA 1: BRANCH, HILLSDALE, MECOSTA & OSCEOLA COUNTIES

AREA 2: ARENAC, GLADWIN, HURON, MIDLAND, SHIAWASSEE & TUSCOLA COUNTIES

Rates Fringes

Operating Engineer:

AREA 1		
Group 1.....	\$ 39.58	24.35
Group 2.....	\$ 36.28	24.35
Group 3.....	\$ 33.63	24.35
Group 4.....	\$ 31.92	24.35
Group 5.....	\$ 23.58	24.35

Operating Engineers:

AREA 2		
Group 1.....	\$ 39.58	24.35
Group 2.....	\$ 36.28	24.35
Group 3.....	\$ 33.63	24.35
Group 4.....	\$ 31.92	24.35
Group 5.....	\$ 23.58	24.35

FOOTNOTES:

Crane operator with main boom and jib 300' or longer: \$1.50 per hour above the group 1 rate.
Crane operator with main boom and jib 400' or longer: \$3.00 per hour above the group 1 rate.

PAID HOLIDAYS: New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Crane operator with main boom and jib 400', 300', or 220' or longer.

GROUP 2: Crane operator with main boom and jib 140' or longer, tower crane, gantry crane, whirley derrick

GROUP 3: Backhoe/Excavator; Bulldozer; Compactor; Crane; Scraper; Loader

GROUP 4: Boom truck (non-swinging)

GROUP 5: Oiler

ENGI0326-024 06/01/2019

EXCLUDES UNDERGROUND CONSTRUCTION

LENAWEE COUNTY

Rates Fringes

OPERATOR: Power Equipment		
GROUP 1.....	\$ 41.89	24.45
GROUP 2.....	\$ 40.39	24.45
GROUP 3.....	\$ 38.89	24.45
GROUP 4.....	\$ 38.59	24.45
GROUP 5.....	\$ 37.77	24.45
GROUP 6.....	\$ 36.91	24.45
GROUP 7.....	\$ 35.94	24.45
GROUP 8.....	\$ 25.89	24.45

FOOTNOTES: Tower cranes: to be paid the crane operator rate determined by the combined length of the mast and the boom.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Crane with boom & jib or leads 400' or longer

GROUP 2: Crane with boom & jib or leads 300' or longer

GROUP 3: Crane with boom & jib or leads 220' or longer

GROUP 4: Crane with boom & jib or leads 140' or longer

GROUP 5: Crane with boom & jib or leads 120' or longer

GROUP 6: Regular crane operator

GROUP 7: Backhoe/Excavator, Bulldozer, Compactor, Scraper,
Loader

GROUP 8: Oiler

IRON0025-007 06/01/2019

ARENAC, GLADWIN, HURON, MIDLAND, SHIAWASSEE & TUSCOLA COUNTIES

Rates Fringes

IRONWORKER

Reinforcing.....\$ 30.98 27.99

Structural.....\$ 36.77 29.03

IRON0055-011 07/01/2019

LENAWEE COUNTY

Rates Fringes

IRONWORKER, STRUCTURAL AND

REINFORCING.....\$ 30.38 24.40

IRON0340-012 06/19/2017

BRANCH, HILLSDALE, MECOSTA & OSCEOLA COUNTIES

Rates Fringes

IRONWORKER, STRUCTURAL AND

REINFORCING.....\$ 24.43 24.67

LABO0334-008 09/01/2018

SCOPE OF WORK:

OPEN CUT CONSTRUCTION: Excavation of earth and sewer, utilities, and improvements, including underground piping/conduit (including inspection, cleaning, restoration, and relining)

ARENAC, BRANCH, GLADWIN, HURON, MECOSTA, MIDLAND, OSCEOLA, TUSCOLA

Rates Fringes

LABORER

(1) Common or General.....	\$ 20.97	12.85
(4) Grade Checker.....	\$ 21.28	12.85

LABO0334-019 09/01/2018

SCOPE OF WORK:

OPEN CUT CONSTRUCTION: Excavation of earth and sewer, utilities, and improvements, including underground piping/conduit (including inspection, cleaning, restoration, and relining)

HILLSDALE, LENAWEЕ, SHIAWASSEE

Rates Fringes

LABORER

(1) Common or General.....	\$ 20.97	12.85
(4) Grade Checker.....	\$ 21.28	12.85

LABO0355-007 06/01/2018

EXCLUDES OPEN CUT CONSTRUCTION

BRANCH COUNTY

Rates Fringes

LABORER

Common or General.....	\$ 23.02	12.85
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LABO0355-015 06/01/2018

EXCLUDES OPEN CUT CONSTRUCTION

MECOSTA & OSCEOLA COUNTIES

Rates Fringes

LABORER
Common or General.....\$ 22.48 12.85

LABO0499-014 06/01/2019

EXCLUDES OPEN CUT CONSTRUCTION

HILLSDALE & LENAWEE COUNTIES

Rates Fringes

LABORER
Common or General.....\$ 26.21 12.90

LABO1075-011 06/01/2019

EXCLUDES OPEN CUT CONSTRUCTION

SHIAWASSEE COUNTY

Rates Fringes

LABORER
Common or General.....\$ 23.00 13.66

LABO1098-022 07/01/2019

EXCLUDES OPEN CUT CONSTRUCTION

ARENAC, GLADWIN, HURON, MIDLAND & TUSCOLA COUNTIES

Rates Fringes

LABORER
Common or General.....\$ 20.12 12.90

PLAS0016-009 04/01/2014

MECOSTA & OSCEOLA COUNTIES

Rates Fringes

CEMENT MASON/CONCRETE FINISHER...\$ 22.02 12.38

PLAS0016-021 04/01/2014

SHIAWASSEE COUNTY

Rates Fringes

CEMENT MASON/CONCRETE FINISHER...\$ 25.58 12.88

PLAS0016-023 04/01/2014

BRANCH COUNTY

Rates Fringes

CEMENT MASON/CONCRETE FINISHER...\$ 24.63 12.88

PLAS0016-031 04/01/2014

ARENAC, GLADWIN, HURON, MIDLAND & TUSCOLA COUNTIES

Rates Fringes

CEMENT MASON/CONCRETE FINISHER...\$ 25.47 12.38

PLAS0886-013 08/01/2011

HILLSDALE & LENAWEE COUNTIES

Rates Fringes

CEMENT MASON/CONCRETE FINISHER...\$ 27.19 16.00

PLUM0085-017 05/07/2019

ARENAC, GLADWIN, HURON (West of M-53), MIDLAND & TUSCOLA COUNTIES

Rates Fringes

PLUMBER/PIPEFITTER.....\$ 36.35 21.07

PLUM0098-008 06/01/2019

HURON COUNTY (East of M-53)

	Rates	Fringes
PLUMBER.....	\$ 35.77	35.13

PLUM0174-015 07/01/2019

MECOSTA & OSCEOLA COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 35.26	22.52

PLUM0190-012 06/01/2019

LENAWEE COUNTY (Townships of Clinton, Macon & Tecumseh)

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 42.26	23.24

PLUM0333-021 06/01/2019

BRANCH & HILLSDALE COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 38.19	22.33

PLUM0333-022 06/01/2019

LENAWEE COUNTY (Remainder of County)

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 38.19	22.33

PLUM0370-007 06/01/2018

SHIAWASSEE COUNTY

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 37.81	20.60

PLUM0636-008 06/05/2017

HURON COUNTY (East of M-53)

	Rates	Fringes
PIPEFITTER.....	\$ 40.41	29.35

TEAM0007-010 06/01/2019

	Rates	Fringes
TRUCK DRIVER		
Lowboy/Semi-Trailer Truck...	\$ 27.40	.50 + a+b

FOOTNOTE:

- a. \$455.10 per week.
- b. \$68.70 daily.

SUMI2010-042 11/09/2010

	Rates	Fringes
CARPENTER, Excludes Form Work....	\$ 23.97	6.29
LABORER: Landscape.....	\$ 10.89	1.74
LABORER: Mason Tender - Cement/Concrete.....	\$ 15.97	3.51
LABORER: Pipelayer.....	\$ 15.28	3.99
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 12.98	6.12
OPERATOR: Grader/Blade.....	\$ 15.50	3.62
OPERATOR: Roller.....	\$ 13.74	7.93
TRUCK DRIVER: Dump Truck.....	\$ 14.06	1.25

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide

employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate

changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

SECTION 220523.15 - GATE VALVES FOR PLUMBING PIPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Bronze gate valves.
 - 2. Iron gate valves.
 - 3. CPVC gate valves.
 - 4. PVC gate valves.
 - 5. Chainwheels.

1.3 DEFINITIONS

- A. CWP: Cold working pressure.
- B. NRS: Non-rising stem.
- C. OS&Y: Outside screw and yoke.
- D. RS: Rising stem.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of valve.
 - 1. Certification that products comply with NSF 61 and NSF 372.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Prepare valves for shipping as follows:
 - 1. Protect internal parts against rust and corrosion.
 - 2. Protect threads, flange faces, grooves, and weld ends.
 - 3. Set gate valves closed to prevent rattling.
- B. Use the following precautions during storage:
 - 1. Maintain valve end protection.
 - 2. Store valves indoors and maintain at higher-than-ambient-dew-point temperature. If outdoor storage is necessary, store valves off the ground in watertight enclosures.

- C. Use sling to handle large valves; rig sling to avoid damage to exposed parts. Do not use handwheels or stems as lifting or rigging points.

PART 2 - PRODUCTS

2.1 GENERAL REQUIREMENTS FOR VALVES

- A. Source Limitations for Valves: Obtain each type of valve from single source from single manufacturer.
- B. ASME Compliance:
 - 1. ASME B1.20.1 for threads for threaded end valves.
 - 2. ASME B16.1 for flanges on iron valves.
 - 3. ASME B16.10 and ASME B16.34 for ferrous valve dimensions and design criteria.
 - 4. ASME B16.18 for solder joint.
 - 5. ASME B31.9 for building services piping valves.
- C. NSF Compliance: NSF 61 and NSP 372 for valve materials for potable-water service.
- D. Bronze valves shall be made with dezincification-resistant materials. Bronze valves made with copper alloy (brass) containing more than 15 percent zinc are not permitted.
- E. Valve Pressure-Temperature Ratings: Not less than indicated and as required for system pressures and temperatures.
- F. Valve Sizes: Same as upstream piping unless otherwise indicated.
- G. RS Valves in Insulated Piping: With 2-inch (50-mm) stem extensions.
- H. Valve Bypass and Drain Connections: MSS SP-45.

2.2 BRONZE GATE VALVES

- A. Bronze Gate Valves, NRS, Class 125:
 - 1. Description:
 - a. Standard: MSS SP-80, Type 1.
 - b. CWP Rating: 200 psig (1380 kPa).
 - c. Body Material: Bronze with integral seat and screw-in bonnet.
 - d. Ends: Threaded or solder joint.
 - e. Stem: Bronze.
 - f. Disc: Solid wedge; bronze.
 - g. Packing: Asbestos free.
 - h. Handwheel: Malleable iron, bronze, or aluminum.
- B. Bronze Gate Valves, RS, Class 125:
 - 1. Description:
 - a. Standard: MSS SP-80, Type 2.

- b. CWP Rating: 200 psig (1380 kPa).
 - c. Body Material: Bronze with integral seat and screw-in bonnet.
 - d. Ends: Threaded or solder joint.
 - e. Stem: Bronze.
 - f. Disc: Solid wedge; bronze.
 - g. Packing: Asbestos free.
 - h. Handwheel: Malleable iron, bronze, or aluminum.
- C. Bronze Gate Valves, NRS, Class 150:
- 1. Description:
 - a. Standard: MSS SP-80, Type 1.
 - b. CWP Rating: 300 psig (2070 kPa).
 - c. Body Material: Bronze with integral seat and union-ring bonnet.
 - d. Ends: Threaded.
 - e. Stem: Bronze.
 - f. Disc: Solid wedge; bronze.
 - g. Packing: Asbestos free.
 - h. Handwheel: Malleable iron, bronze, or aluminum.
- D. Bronze Gate Valves, RS, Class 150:
- 1. Description:
 - a. Standard: MSS SP-80, Type 2.
 - b. CWP Rating: 300 psig (2070 kPa).
 - c. Body Material: Bronze with integral seat and union-ring bonnet.
 - d. Ends: Threaded.
 - e. Stem: Bronze.
 - f. Disc: Solid wedge; bronze.
 - g. Packing: Asbestos free.
 - h. Handwheel: Malleable iron, bronze, or aluminum.
- E. Bronze Gate Valves, Press Ends:
- 1. Description:
 - a. Standard: MSS SP-80 and MSS SP-139.
 - b. CWP Rating: Minimum 200 psig (1380 kPa).
 - c. Body Material: Bronze with integral seat and union-ring bonnet.
 - d. Ends: Press.
 - e. Press Ends Connection Rating: Minimum 200 psig (1380 kPa).
 - f. Stem: Brass or bronze non-rising.
 - g. Disc: Solid wedge; bronze.
 - h. Packing: Graphite.
 - i. Port: Full.
 - j. Handwheel: Malleable iron, bronze, or aluminum.

2.3 IRON GATE VALVES

- A. Iron Gate Valves, NRS, Class 150:
- 1. Description:
 - a. Standard: MSS SP-70, Type I.
 - b. CWP Rating: 200 psig (1380 kPa).

- c. Body Material: Gray iron with bolted bonnet.
 - d. Ends: Flanged.
 - e. Trim: Bronze.
 - f. Disc: Solid wedge.
 - g. Packing and Gasket: Asbestos free.
- B. Iron Gate Valves, OS&Y, Class 125:
- 1. Description:
 - a. Standard: MSS SP-70, Type I.
 - b. CWP Rating: 200 psig (1380 kPa).
 - c. Body Material: Gray iron with bolted bonnet.
 - d. Ends: Flanged.
 - e. Trim: Bronze.
 - f. Disc: Solid wedge.
 - g. Packing and Gasket: Asbestos free.
- C. Iron Gate Valves, NRS, Class 250:
- 1. Description:
 - a. Standard: MSS SP-70, Type I.
 - b. CWP Rating: 500 psig (3450 kPa).
 - c. Body Material: Gray iron with bolted bonnet.
 - d. Ends: Flanged.
 - e. Trim: Bronze.
 - f. Disc: Solid wedge.
 - g. Packing and Gasket: Asbestos free.
- D. Iron Gate Valves, OS&Y, Class 250:
- 1. Description:
 - a. Standard: MSS SP-70, Type I.
 - b. CWP Rating: 500 psig (3450 kPa).
 - c. Body Material: Gray iron with bolted bonnet.
 - d. Ends: Flanged.
 - e. Trim: Bronze.
 - f. Disc: Solid wedge.
 - g. Packing and Gasket: Asbestos free.

2.4 CPVC GATE VALVES

- A. Description:
- 1. Pressure Rating and Temperature: 150 psig (1035 kPa) at 73 deg F (23 deg C).
 - 2. Body Material: CPVC.
 - 3. Body Design: Nonrising stem.
 - 4. End Connections for Valves NPS 2 (DN 50) and Smaller: threaded.
 - 5. End Connections for Valves NPS 2-1/2 to NPS 4 (DN 65 to DN 100): Threaded.
 - 6. Gate and Stem: Plastic.
 - 7. Seals: EPDM rubber.
 - 8. Handle: Wheel.

2.5 PVC GATE VALVES

- A. Description:
1. Pressure Rating and Temperature: 150 psig (1035 kPa).
 2. Body Material: PVC.
 3. Body Design: Non-rising stem.
 4. End Connections for Valves NPS 2 (DN 50) and Smaller: threaded.
 5. End Connections for Valves NPS 2-1/2 to NPS 4 (DN 65 to DN 100): Threaded.
 6. Gate and Stem: Plastic.
 7. Seals: EPDM rubber.
 8. Handle: Wheel.

2.6 CHAINWHEELS

- A. Description: Valve actuation assembly with sprocket rim, chain guides, chain, and attachment brackets for mounting chainwheels directly to hand wheels.
1. Sprocket Rim with Chain Guides: Ductile or cast iron, of type and size required for valve. Include zinc or epoxy coating.
 2. Chain: Hot-dip galvanized steel, of size required to fit sprocket rim.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine valve interior for cleanliness, freedom from foreign matter, and corrosion. Remove special packing materials, such as blocks, used to prevent disc movement during shipping and handling.
- B. Operate valves in positions from fully open to fully closed. Examine guides and seats made accessible by such operations.
- C. Examine threads on valve and mating pipe for form and cleanliness.
- D. Examine mating flange faces for conditions that might cause leakage. Check bolting for proper size, length, and material. Verify that gasket is of proper size, that its material composition is suitable for service, and that it is free from defects and damage.
- E. Do not attempt to repair defective valves; replace with new valves.

3.2 VALVE INSTALLATION

- A. Install valves with unions or flanges at each piece of equipment arranged to allow service, maintenance, and equipment removal without system shutdown.
- B. Locate valves for easy access and provide separate support where necessary.
- C. Install valves in horizontal piping with stem at or above center of pipe.

- D. Install valves in position to allow full stem movement.
- E. Install chainwheels on operators for gate valves NPS 4 (DN 100) and larger and more than 96 inches (2400 mm) above floor. Extend chains to 60 inches (1520 mm) above finished floor.
- F. Install valve tags. Comply with requirements in Section 220553 "Identification for Plumbing Piping and Equipment" for valve tags and schedules.

3.3 ADJUSTING

- A. Adjust or replace valve packing after piping systems have been tested and put into service but before final adjusting and balancing. Replace valves if persistent leaking occurs.

3.4 GENERAL REQUIREMENTS FOR VALVE APPLICATIONS

- A. Use gate valves for shutoff service only.
- B. If valves with specified CWP ratings are unavailable, the same types of valves with higher CWP ratings may be substituted.
- C. For Grooved-End Copper Tubing: Valve ends may be grooved.

3.5 LOW-PRESSURE, COMPRESSED-AIR VALVE SCHEDULE (150 PSIG (1035 kPa) OR LESS)

- A. Pipe NPS 2 (DN 50) and Smaller: Bronze gate valves, NRS, Class 150 with threaded ends.
- B. Pipe NPS 2-1/2 (DN 65) and Larger: Iron gate valves, NRS, Class 150 with flanged ends.

3.6 HIGH-PRESSURE, COMPRESSED-AIR VALVE SCHEDULE (150 TO 200 PSIG (1035 TO 1380 kPa))

- A. Pipe NPS 2 (DN 50) and Smaller: Bronze gate valves NRS, Class 150 with threaded ends.
- B. Pipe NPS 2-1/2 (DN 65) and Larger: Iron gate valves, NRS, Class 250 with flanged ends.

3.7 DOMESTIC HOT- AND COLD-WATER VALVE SCHEDULE

- A. Pipe NPS 2 (DN 50) and Smaller:
 - 1. Bronze gate valves, NRS, Class 150 with threaded ends.
 - 2. Bronze gate valves, press ends.

- B. Pipe NPS 2-1/2 (DN 65) and Larger: Iron gate valves, NRS, Class 250 with flanged ends.
- C. CPVC Pipe NPS 2 (DN 50) and Smaller: CPVC gate valve.
- D. PVC Pipe NPS 4 (DN 100) and Smaller: PVC gate valve.

END OF SECTION 220523.15

MEETING MINUTES

Project: WWTP Headworks Improvements, City of Owosso
Date: April 2, 2020
Time: 9:30 AM
Location: Zoom Meeting – Meeting ID 517-371-9111

1. Attendance – Role Call (Mandatory Meeting) – Attendance Listed (below)

2. Review DBE and AIS requirement, Jonathan Berman (EGLE)

- a. Reference emailed requirements (attached)
- b. Documentation is critical when soliciting.
- c. Minimum of three required.

3. Project Description

Replace open flight screw pumps and controls, relocate existing screens compactors and controls, reconstruct existing concrete grit tank and channel and install vortex grit tank. Install vortex grit system including classifier and grit pump. Replace all wire, mechanical, and paint existing headworks building, replace headworks building roof.

4. BID PROCESS:

Prospective bidders will not be able to attend the bid opening as City Hall is currently closed to visitors due to COVID-19 guidelines.

A flash drive or DVD that contains an electronic version of the bid must be included with the bid proposal.

The City will receive bids through FED Ex, UPS or USPS only. BIDS DELIVERED IN PERSON WILL NOT BE ACCEPTED.

The bid opening will be conducted on Facebook Live, this can be accessed through the following link: <https://www.facebook.com/Owosso/>.

5. Project Schedule:

- i. Bids due: April 21, 2020 at 3 PM
- ii. Include attachments A,B,C
- iii. Bid results can be retrieved by calling into the City and/or through the ShareFile site.
- b. Substantial Completion: February 26, 2021
 - i. Liquidated damages: \$1000/day past substantial
- c. Final Payment Completion: March 25, 2021
 - i. Liquidated damages: \$1000/day past

6. Addendum

- a. Addendum No. 1 will be issued Monday, April 13, 2020, submit question by 4/8 to be included in Addendum 1.
- b. Additional questions will be taken until 4/15

7. Permits

- a. Contractors responsibility

8. Plans/Picture review, Questions

- a. Duperon screen & compactor are existing and are to be relocated as part of this project. New trough, chute, and panel programming will be required. Contractor shall coordinate with manufacture.
- b. Contractor is responsible for grit chamber, bypass channels being cleaned out as well as chamber underneath headworks building.
- c. Bypass pumping at Contractor means and methods.
- d. There is no key instrumentation contractor for Owosso. The plant does not have Scada and Scada will not be included in project. The equipment shall be setup so that it can be connected to Scada in future.

9. Adjourn

Attendance Log:

Grand River Construction: Rick Parcheta

Centennial Electric: Mike Bozung

F&V Construction: Rob Holmen

F&V Construction: Jeff Pugh

J.F. Cavanaugh Company: Jessica George

J.R. Heineman & Sons: Dale Johnson, Jr.

L.D. Docsa: Jeff Lovell

Monarch Welding: Brandon Buck, Corey Barrett

RCL Construction: Adam Case

Sorensen Gross Company: Ryan Sly

Waterworks Systems & Equipment: Chuck Kronk

Process Equipment Solutions: Joe Gentle

Glenn Chinavare, City of Owosso

Tim Guysky, City of Owosso

Jonathan Berman, EGLE

Disadvantaged Business Enterprise (DBE) Good Faith Effort (GFE) Solicitations A Quick Summary of the SRF/DWRF Requirements for Prime Bidders

[Note: This process is very different from MDOT's DBE Policy. Unless the contract is part of a joint project with MDOT, if a bidder follows the MDOT DBE requirements they will not be in compliance.]

- I. At least three (3) DBE subcontractors for each potential subcontracted area of work must be directly contacted by Primes during the bidding period (i.e. prior to bid opening). Primes must complete a GFE Worksheet for each area of work that may be subcontracted and attach documentation of the direct contacts that were made with DBE subcontractors (e.g. copies of all solicitation letters, e-mails, fax confirmation sheets, phone logs, etc.).

The Prime must indicate on each GFE Worksheet if there was a 'Price Quote Received' and if it was 'Accepted/Rejected' along with an Explanation if it was Rejected.

- II. If a Prime determines less than three (3) DBE subcontractors exist for an area of work that may be subcontracted, printouts dated prior to the bid opening must be provided for adequate supporting documentation EITHER from two (2) state-wide DBE registries and an advertisement through a publication which directly contacts DBEs for identified subareas (e.g. MITA) OR from three (3) state-wide DBE registries without publishing such an advertisement. The Michigan Department of Transportation (MDOT-MUCP) <http://mdotjboss.state.mi.us/UCP/> and the federal System for Award Management (SAM) www.sam.gov are both acceptable DBE registries. Other registries consulted will be considered if printouts are provided dated prior to the opening of bids.

[Note: If a Prime claims on its GFE Worksheet there are zero (0) DBE subcontractors for an area of work, the printouts must support this. If a Prime claims on its GFE Worksheet there are only one or two (1 or 2) DBE subcontractors, the printouts must support this AND a direct contact(s) for each identified DBE subcontractor must be documented.]

- III. Posting a solicitation for quotes/proposals from DBE subcontractors on the MITA website (www.mitadbe.com) is highly recommended to facilitate participation in the competitive process. The solicitation must identify the project and the area(s) of work to be subcontracted. If used, a copy of the MITA advertisement must be provided.
- IV. Refer to the DBE-GFE solicitation documents in the current version of the required contract language and the design phase guidance which are both available on the DEQ website at www.michigan.gov/cleanwaterrevolvingfund. If a potential bidder has any DBE-GFE questions, have them contact the DEQ Project Manager.

PLAN HOLDERS LIST

Project No.:	19-0101	Bid Date:	April 21, 2020
Project:	WWTP Headwork Improvements	Bid Time:	3:00 PM
		A/E Firm:	C2AE
		Project Manager:	Brian W. VanZee
Owner:	City of Owosso Shiawassee County, Michigan	A/E Estimated Construction Cost:	

Builders Exchange of Greater Lansing

1240 East Saginaw
Lansing, MI 48906
517/372-8930
517/372-5022 FAX
vargas@bxlansing.com
bids@bxlansing.com

Builders Exchange of Michigan

678 Front Ave NW Suite 330
Grand Rapids MI 49504
616/949-8650
616/949-6831 FAX
melissa@grbx.com

Builders Exchange of Michigan

3431 E. Kilgore Road
Kalamazoo, MI 49001
269/349-2507
269/349-9306 FAX
pam@builder-exchange.com

Construction Association Plan Room

43636 Woodward Ave.
Bloomfield Hills, MI 48302
248/972-1000
248/972-1001 FAX
milks@buildwithcam.com

Dodge Data and Analytics

7265 Kenwood Road, Suite 201
Cincinnati, OH 45236
513/666.3341
800/768.5594 FAX
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dodge.docs@construction.com
mark.concha@construction.com

Environmental Sales, Inc.

17348 W 12 Mile Rd., Ste. 103
Southfield, MI 48076
248/569-9393
248/569-9388 FAX
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eschiebold@aol.com

Grand River Construction, Inc.

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Hudsonville, MI 49426
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Rick Parcheta
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Bill Kersaan
BKersaan@grandriverconstruction.com

J. F. Cavanaugh Company

20750 Sunnydale
Farmington Hills, MI 48336
248/476.9366
Jessica George
jessica@jfcav.com

Waterworks Systems & Equipment, Inc.

908/801-0383 MOBILE
Tony Cecchini
tcecchini@waterworkssystem.com

L.D. Docsa

300 S. 8th Street
Kalamazoo, MI 49009
269/349-7675
269/349-2511 FAX
Emily Daniel
edaniel@lddocsa.com

RCL Construction Co., Inc.

777 W. Maynard Rd
Sanford, MI 48657
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989/687-5378 FAX
Sherry Harris, Office Manager
sherry@rclconstruct.com

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Waukesha, WI 53188
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john.isleb@evoqua.com

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Joe Gentle
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Construct Connect

513/458-8516
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Ben Beall
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JGM Valve Corporation

1155 Welch Road, Ste D
Commerce, MI 48390
248/926-6200
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Stephanie Johnson
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Peterson and Matz, Inc.

30701 W. Ten Mile Road, Suite 100
Farmington Hills, MI 48336
248/476-3204
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Michael Wright
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Waterwork Systems & Equipment, Inc.

Chuck Kronk
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Chuck Kronk
ckronk@waterworkssystems.com

J.R. Heineman & Sons, Inc.

1224 N. Niagara Street
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Goyette Mechanical

Dave Filipiak
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Tyler Evans, Sr. PM / Estimator
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517/548-0911 FAX
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Gene Meeks
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Monarch Welding

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Brooke Myers
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