

## Addendum No. 3

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Owner: City of Muskegon

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Project Title: Beidler Sanitary Sewer Replacement, Contract No. 1

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Project #: 2180552

Date of Addendum: June 17, 2019

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# Notice to Prospective Bidders

In accordance with Article 1 of the General Conditions, this Addendum is hereby issued as part of the Contract Documents.

### Bid Proposal:

1. When acknowledging Addenda, acknowledge the addenda issued by the City of Muskegon.
2. Bid proposal has been revised and is enclosed, bid items were added for , Light Pole Removal and Replacement, Commercial Sign Removal and Reinstallation, Irrigation Repair, and Miscellaneous Electrical Repairs.

### Project Specifications:

1. The SRF/DWRF standard American Steel and Iron contract language has been added to the contract and is enclosed with this Addendum.
2. Clarification of **Section I. 23:**  
The Owner and Engineer will provide compaction testing and HMA testing for this project. The Contractor shall provide concrete testing in accordance with the minimum frequency of Quality Control testing in accordance with the MDOT 2012 Standard Specifications for Construction, and the Manual for Michigan Test Methods. Prior to placement of concrete the Contractor must provide a concrete testing plan for review by the Engineer.
3. Delete the third paragraph of **Section II. 4. Machine Grading, Modified** and replace with:  
“Machine Grading, Modified shall also include temporary relocation and reinstallation of any directional/parking signage on private property disturbed during construction.”
4. Add **Section II. 17. Light Pole, Rem. and Replace** to the project specifications as follows:  
“Light Pole Removal and Replacement within easements as shown on the drawings shall be removed, stored securely at an agreed upon location and reinstalled following completion of the sanitary sewer adjacent to the poles. New light pole bases will be required unless determined to be salvageable by the Engineer. Payment shall be per each light pole removed and replaced as listed in the proposal and shall include all labor and materials required to remove the pole and reinstall it on a new base. Electrical conduit and wiring replacement within five feet of the pole shall be included in the cost of removal and replacement.”

5. Add **Section II. 18. Commercial Sign Removal and Reinstallation** to the project specifications as follows:  
“Commercial Signs called out on the drawings to be removed and reinstalled shall be removed, stored securely at an agreed upon location and reinstalled immediately following completion of the sanitary sewer adjacent to the sign. Removal of the sign may not be completed until the project is directly impacting the area around the sign and sewer installation is ongoing within 200 ft. of the sign. A new concrete base must be constructed similar to the existing base but must meet current design requirements specified in the City of Muskegon sign ordinances. Payment shall be by the lump sum listed in the proposal.”
6. Add **Section II. 19. Miscellaneous Electrical Repair Allowance** to the project specifications as follows  
“Repair of buried electrical lines on private property that were not located prior to damage shall be repaired by the Contractor. The Contractor shall include in the bid an allowance of \$10,000 for repair of broken electrical wires and conduits. Payment will only be made for submitted invoices from a licensed electrician. All outside expenses, overhead and profit connected with the work in the Allowance shall be included in the major items of work and no additional payment shall be made. Payment for repairs will not be made if no reasonable attempt by the Contractor was made to locate the utilities prior to the damage. The Contractor shall assist property owners with locating their electrical systems within the project limits. Costs for locating electrical systems shall be included in the major items of work.”
7. Add **Section II. 20. Irrigation Repair** as follows:  
“Repair of irrigation systems on private property that were not located prior to damage shall be repaired by the Contractor. The Contractor shall include in the bid an allowance of \$15,000 for repair of damaged irrigation systems. Payment will only be made for submitted invoices from an irrigation contractor. All outside expenses, overhead and profit connected with the work in the Allowance shall be include in the major items of work and no additional payment shall be made. Payment for repairs will not be made if no reasonable attempt by the Contractor was made to locate the utilities prior to the damage. The Contractor shall work with the property owners to locate irrigation lines and heads prior to excavation so as to minimize the extent of any damage. Costs for locating irrigation systems shall be included in the major items of work.”
8. Add to **Section IV.2. Water Service Restoration, Private** the following:  
“The item “Water Service Restoration, Private” shall also include removal and replacement of fencing as necessary to complete the work.”
9. Add to **Section IV.3. Sanitary Lateral Restoration, Private** the following:  
“The item “Sanitary Lateral Restoration, Private” shall also include removal and replacement of fencing as necessary to complete the work.”
10. Add to **Section V. 5. Sanitary Lateral, \_\_ Inch, Private:**  
“Permits must be applied for by the Contractor from Safebuilt for construction of the private property portion of the sanitary sewer lateral. Permit fees shall be included in the per foot cost of the private portion of the lateral. Contractor shall provide 24 hour notice to Safebuilt

prior to inspection, fees for cancelled inspections or missing inspection appointments shall be paid by the Contractor. The Contractor shall schedule and coordinate all inspections.”

11. Revise **Section V. 9. Sanitary Sewer, Abandon** as follows:

“, and all manholes not in the Ruddiman Creek side slope are to be removed to a minimum of **8 feet** below existing grade.”

12. Add to **Section V. 9. Sanitary Sewer, Abandon** the following:

“Payment for Sanitary Sewer, Abandon shall be by the linear foot as given in the proposal and shall include all materials and labor to abandon pipe as required in the drawings specifications. Abandonment of manholes shall be by the unit price for Dr. Structure, Abn as given in the proposal and shall include all labor and materials to remove the top portion of the structure, fill the structure and dispose of removed portion. Costs for restoration of grass areas shall be included in the costs of the abandonment. Removal and restoration of any hard surface improvements such as pavement, concrete sidewalk or drive approaches shall be by the unit prices given in the proposal.”

13. Add to **Section V.11. Sanitary Sewer Payment** the following:

“Removal and replacement of existing fencing to construct the proposed sanitary sewer shall be considered incidental to the construction, costs for replacement shall be included in the cost of the pipe installation and no additional payment will be made.”

14. Add to **Section IX. 6.H.** the following:

“Permits must be applied for by the Contractor from Safebuilt for construction of the private property portion of water services. Permit fees shall be included in the per foot cost of the private portion of the lateral. Contractor shall provide 24 hour notice to Safebuilt prior to inspection, fees for cancelled inspections or missing inspection appointments shall be paid by the Contractor. The Contractor shall schedule and coordinate all inspections. Work up to the meter or 18 inches into the residence can be completed without a licensed plumber. Any necessary work beyond 18 inches inside the residence will be completed by the City. Electrical systems that are grounded to the water service must be reviewed by the Owner and Engineer prior to water service replacement. Any revisions to grounding that are necessary due to service replacement will be completed by the City.”

15. Add to **Section IX.9. Water Main Measurement and Payment** the following:

“Removal and replacement of existing fencing to construct the proposed water main shall be considered incidental to the construction, costs for replacement shall be included in the cost of the pipe installation and no additional payment will be made.”

16. Revise **Appendix B Division 31 Section 31 10 00 1.02 B.** No tree clearing will be allowed between April 1 and September 30.

17. Clarification of **Appendix D Section e. Stage Construction:**

Stage 4 will be completed during Stage 1 road closures. Restoration to temporary aggregate for access at intersections is permitted.

Stages 4, 5 and 6 are allowed to and expected to overlap. Once Hackley Avenue is completed, restoration of Beidler and Young within Stage 1 and Stage 4 must commence and continue until completed.

**Drawings:**

1. Clarification of sanitary sewer line to be abandoned on Sheet 15. Sanitary sewer shown to be abandoned on sheet 15 extending under the building to the west outlets at the existing manhole #16914 at 209+46 on sheet 10.

**Enclosures:**

- Minutes of Mandatory Pre-bid Meeting 6/13/2019
- Revised Itemized Bid Proposal
- SRF/DWRF Standard Contract Language for American Steel and Iron requirements



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Matthew R. Hulst, P.E.

# City of Muskegon SRF/DWRF Projects Mandatory Pre-Bid Meeting Meeting Minutes for General Items

**Date:** June 13, 2019, 9:00 A.M.

**Meeting Location:** City of Muskegon DPW Building

**Project Name:** City of Muskegon SRF/DWRF Projects

**SRF No.:** 5675-01

**DWRF No.:** 7449-01

## GENERAL ITEMS:

1. Introductions – Leo Evans, Public Works Director, City of Muskegon

Package #001 Spring Street Sewer Reroute and Bourdon Street Alley Sewer

City of Muskegon Project No. 91850 & 91851

Engineer – ENG. Representative: Erik Morris, P.E.

Package #002 9<sup>th</sup> Street Area Sanitary Sewer Improvements & Getty Street Force Main Replacement

City of Muskegon Project No. 91852 & 91853

Engineer – Fleis & VandenBrink, Inc. Representative: Don DeVries, P.E.

Package #003 Beidler Sanitary Sewer Replacement

City of Muskegon Project No. 91854

Engineer – Prein&Newhof Representative: Matt Hulst, P.E., Barbara Marczak, P.E.

Package #004 Westwood Sanitary Sewer Replacement

City of Muskegon Project No. 91855

Engineer – Prein&Newhof Representative: Matt Hulst, P.E., Barbara Marczak, P.E.

Package #005 Jefferson/Strong Sanitary Sewer Replacement

City of Muskegon Project No. 91856

Engineer – Prein&Newhof Representative: Matt Hulst, P.E., Barbara Marczak, P.E.

2. Mandatory Pre-bid meeting – all attendees must sign sign-in sheet. If anyone came on Monday for original meeting and signed in, they will be considered to have attended. Sign-in sheet is attached.
3. SRF/DWRF Program Requirements (Matt Hulst – Prein&Newhof)
  - a. Project Financing – All projects are financed through the State of Michigan State Revolving Fund administered through the Department of Environment, Great Lakes, and Energy (EGLE). All projects except package #002 are also financed through the Drinking Water Revolving Fund administered through EGLE. Project numbers are shown on the plan.
  - b. DBE Good Faith Efforts – Bidders must meet the requirements of the DBE Good Faith Efforts outlined in the specifications. Good Faith Efforts Worksheet must be included in each bid package with necessary documentation. There is not a specific percentage requirement for participation.

- c. American Iron and Steel – American Iron and Steel per H.R. 3547 is required under this project. See Contract language in each Contract.
- d. Wages – Davis Bacon/Prevailing Federal Wage Rates are required. Updated wage rates will be added by Addendum 10 days prior to bid if necessary.
- e. Schedule –
  - i. Bids received 6/27/2019. This will be the earliest date. The City is looking at alternate bid dates for some contracts. This will be revised via addendum.
  - ii. Tentative Contract Award by City of Muskegon 7/9/2019
  - iii. EGLE Order of Approval 8/9/2019
  - iv. Award within 60 days of Order of Approval contingent upon successful sale of bonds.
  - v. Completion Dates – Project Specific

#### 4. Questions on General Items.

Q: Is the City of Muskegon's local contractor preference policy applicable to this project?

A: The city's local preference policy is not in place for these projects.

Q: Will wage rates be updated prior to bid?

A: Wage rates will be updated via addendum ten days prior to the bid opening date.

Q: What is the last day for questions?

A: This will be reviewed after the meeting and clarified via addendum.

# City of Muskegon SRF/DWRF Projects Minutes of Mandatory Pre-Bid Meeting

**Date:** June 13, 2019, 9:00 A.M.

**Meeting Location:** City of Muskegon DPW Building  
**Project Name:** City of Muskegon SRF/DWRF Projects  
**SRF No.:** 5675-01  
**DWRF No.:** 7449-01

## PROJECT SPECIFIC ITEMS:

### 1. Project Details

Package #003 Beidler Sanitary Sewer Replacement

City of Muskegon Project No. 91854

Engineer – Prein&Newhof

Representative: Matt Hulst, P.E.

The project consists of furnishing all material and constructing the following approximate quantities:

- 8,000 ft. of 8-inch to 12-inch sanitary sewer
- 370 ft. of 15-inch to 24-inch sanitary sewer
- 3,750 ft. of 10-inch sanitary force main
- 1 Sanitary Sewer Lift Station
- 1 Sanitary Sewer Grinder Station
- 2,590 ft. of 6-inch and 8-inch water main

Including all necessary appurtenances and restoration.

### 2. Project Specifications Layout

- a. Gravity Sewer, Water Main, and Road Reconstruction items are in the Project Specifications.
- b. Lift Station and Grinder Station specifications are included in the Appendix.

### 3. Proposal Format

- a. Sub-contractors must be listed as shown in the proposal package proposal form.
- b. Bid Proposal – Major Equipment form must be submitted, only applies to Lift Station and Grinder Station. Does not apply to underground portion.
- c. Division between SRF Eligible and DWRF Eligible is for financing purposes. DWRF Road items are for Crowley.

### 4. Schedule – May begin upon issuance of notice to proceed.

- a. Note Sequence of Events in Project Specifications as well as milestones and completion dates.
- b. Work may begin fall of 2019 however all pavement must be restored prior to November 15, 2019; this does not apply to Young Street.

- c. Described goal of project to redirect flow in the Beidler area.
5. Sewer Abandonment – Note areas outside of sewer replacement areas.
  6. Non-Hazardous Contaminated Fill – Significant history of foundry fill in the area. Material cannot be used as bedding around pipe but can be placed as backfill above pipe. See specifications for handling instructions. There is an allowance in the contract for testing of material that cannot be used as backfill.
  7. Exploratory Digging – See drawings and specifications for exploratory digging requirements. Required prior to construction of gravity sanitary sewer.
  8. Water services – Into the houses - must be up to meter at each residence according to new state rules. City is currently working to get easements and access.
  9. Questions
- Q:** Is there any leeway in the phase/stage requirements? Can more of the phases overlap?
- A:** The Contractor can submit an alternate phase schedule in accordance with the Contract. Milestone requirements are not adjustable. Adjustments to stage requirements are included in the addendum.
- Q:** Would the City consider removing irrigation, electrical and commercial sign replacement from Machine Grading and placing it in an allowance?
- A:** City will consider and make any changes via addendum.
- Q:** Is there an Engineer's estimate that can be shared?
- A:** Engineer's estimate for information is \$4,400,000.
- Q:** Part 41 permit mentions a Contaminated Material Handling Plan, can that be provided?
- A:** Contaminated Material Handling Plan is included in the specifications under I.9. Non-Hazardous Contaminated Material Disposal.
- Q:** How are removals and restoration handled for Horizontal Directional Drilling in areas not requiring full road reconstruction?
- A:** Hard surface items such as sidewalk and drive approaches are to be paid by the unit price in the proposal for those particular items. Aggregate restoration within the alleys are to be paid by square yard of Aggregate Surface Cse, 8". Restoration of grass areas are to be included in the costs of Horizontal Directional drilling as specified in the Contract.
- Q:** Plans and specifications are inconsistent regarding manhole abandonment. Please clarify the required depth of manhole removal for abandonment.
- A:** This will be clarified via addendum.
- Q:** How is restoration covered for sewer abandonment in areas not being disturbed by other portions of the project?
- A:** This will be clarified via addendum.
- Q:** Is there a last day to ask questions?
- A:** There is not a final day for questions; however no addendums will be issued within 4 days of the scheduled bid.
- Q:** What are the requirements for plumbing inspections for water services and sewer laterals on private property?
- A:** This will be clarified via addendum.



## Pre-bid Meeting Sign In sheet

Owner: City of Muskegon

Project Title: SRF/DWRF Projects

SRF No.: 5675-01

SRF No.: 7449-01

Date: June 13, 2019 @ 9 A.M.

Location: City DPW Building

<i>Attendee</i>	<i>Company</i>	<i>Phone Number (w/area code)</i>	<i>E-mail Address</i>
Mark Robinson	Diversco Construction	616-453-6379	mark@diverscoconst.com
Dirk Hoekstra	Nagel Construction	616-293-0964	hoekstradir@hotmai.com
Karl Klynstra	Kamminga&Roodvoets	616-949-0800	klynska@kandrinc.com
Tim Bergstrom	Kamminga&Roodvoets	616-949-0800	bergsti@kandrinc.com
David VanderMolen	McCormickSand	231-766-0466	david@mccormicksand.com
Gary Merkey	Jackson-Merkey	231-728-9344	gmerkey@jackson-merkey.com
Scott Drier	Terra Contractors	231-206-5654	scott@teamterra.com
Mike Hannan	City	231-578-6495	Mike.hannan@shorelinecity.com
Bob Williams	Xylem	815-378-3209	bobwilliams@xyleminc.com
Erik Morris	Eng., Inc.	517-887-1100	morrise@engdot.com
Dave Baker	City of Muskegon	231-724-4184	dave.baker@shorelinecity.com
Leo Evans	City of Muskegon	231-724-4184	Leo.evans@shorelinecity.com
Matt Hulst	Prein&Newhof	231-798-01-01	mhulst@preinnewhof.com
Barbara Marczak	Prein&Newhof	231-798-0101	bmarczak@preinnewhof.com
Marc Walker	Milbocker & Sons	269-673-2195	mwalker@milbocker.com
Amber Burden	Hallack Contracting	231-578-1880	amber@hallackcontracting.com
Dan Meredith	Efficiency Production	517-243-4564	d.meredith@arcosa.com

## Pre-bid Meeting Sign In sheet

Owner: City of Muskegon

Project Title: SRF/DWRF Projects

SRF No.: 5675-01

SRF No.: 7449-01

Date: June 13, 2019 @ 9 A.M.

Location: City DPW Building

<i>Attendee</i>	<i>Company</i>	<i>Phone Number (w/area code)</i>	<i>E-mail Address</i>
Jim Hamilton	Efficiency Production	517-230-9636	Jim.hamilton@arcosa.com
Max Boose	CL Trucking & Excavating	616-527-9352	mboose@clte.net

## Pre-bid Meeting Sign In sheet

Owner: City of Muskegon

Project Title: SRF/DWRF Projects

SRF No.: 5675-01

SRF No.: 7449-01

Date: June 13, 2019 @ 9 A.M.

Location: City DPW Building

<i>Attendee</i>	<i>Company</i>	<i>Phone Number (w/area code)</i>	<i>E-mail Address</i>
Mark Robinson	Diversco Construction	616-453-6379	mark@diverscoconst.com
Dirk Hoekstra	Nagel Construction	616-293-0964	hoekstradir@hotmai.com
Karl Klynstra	Kamminga&Roodvoets	616-949-0800	klynska@kandrinc.com
Tim Bergstrom	Kamminga&Roodvoets	616-949-0800	bergsti@kandrinc.com
David VanderMolen	McCormickSand	231-766-0466	david@mccormicksand.com
Gary Merkey	Jackson-Merkey	231-728-9344	gmerkey@jackson-merkey.com
Scott Drier	Terra Contractors	231-206-5654	scott@teamterra.com
Mike Hannan	City	231-578-6495	Mike.hannan@shorelinecity.com
Bob Williams	Xylem	815-378-3209	bobwilliams@xyleminc.com
Erik Morris	Eng., Inc.	517-887-1100	morrise@engdot.com
Dave Baker	City of Muskegon	231-724-4184	dave.baker@shorelinecity.com
Leo Evans	City of Muskegon	231-724-4184	Leo.evans@shorelinecity.com
Matt Hulst	Prein&Newhof	231-798-01-01	mhulst@preinnewhof.com
Barbara Marczak	Prein&Newhof	231-798-0101	bmarczak@preinnewhof.com
Marc Walker	Milbocker & Sons	269-673-2195	mwalker@milbocker.com
Amber Burden	Hallack Contracting	231-578-1880	amber@hallackcontracting.com
Dan Meredith	Efficiency Production	517-243-4564	d.meredith@arcosa.com

## Pre-bid Meeting Sign In sheet

Owner: City of Muskegon

Project Title: SRF/DWRF Projects

SRF No.: 5675-01

SRF No.: 7449-01

Date: June 13, 2019 @ 9 A.M.

Location: City DPW Building

<i>Attendee</i>	<i>Company</i>	<i>Phone Number (w/area code)</i>	<i>E-mail Address</i>
Jim Hamilton	Efficiency Production	517-230-9636	Jim.hamilton@arcosa.com
Max Boose	CL Trucking & Excavating	616-527-9352	mboose@clte.net

## Bid Proposal - Unit Prices

Owner:

City of Muskegon

Project Title:

Beidler Sanitary Sewer Replacement, Contract 1

Bid Date & Time:

6/27/2019 at 2:00 PM

Project #:

2180552

SRF Project No.

5675-01

DWRF Project No.

7449-01

Item No.	Description	Quantity	Unit	Unit Price	Total Amount
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### SRF Eligible

1	Mobilization, Max, 10%	1	Lsum		
2	Traffic Control	1	Lsum		
3	Minor Traf Devices	1	Lsum		
4	Tree, Rem, 6 inch to 18 inch	44	Ea		
5	Tree, Rem, 19 inch to 36 inch	16	Ea		
6	Stump, Rem, 6 inch to 18 inch	3	Ea		
7	Light Pole, Rem and Replace	2	Ea		
8	Commercial Sign Removal and Reinstallation	1	Lsum		
9	Dr Structure, Rem	56	Ea		
10	Dr Structure, Abandon	35	Ea		
11	Sewer Rem, Less than 24 inch	3,760	Ft		
12	Sewer Rem, 24 inch and Greater	80	Ft		
13	Sanitary Sewer, Abandon	8,900	Ft		
14	Curb and Gutter, Rem	8,040	Ft		
15	Pavt, Rem	2,060	Syd		
16	HMA Surface, Rem	15,050	Syd		
17	Sidewalk, Rem	1,305	Syd		
18	Miscellaneous Electrical Repair Allowance	1	Lsum	\$10,000.00	\$10,000.00
19	Irrigation Repair	1	Lsum	\$15,000.00	\$15,000.00

Item No.	Description	Quantity	Unit	Unit Price	Total Amount
20	Contaminated Material Testing Allowance	1	Lsum	\$10,000.00	\$10,000.00
21	Non-hazardous Contaminated Material Disposal	250	Ton		
22	Erosion Control, Inlet Protection, Fabric Drop	43	Ea		
23	Erosion Control, Silt Fence	300	Ft		
24	Exploratory Digging	1	Ea		
25	Machine Grading, Modified	54	Sta		
26	Aggregate Base, 5 inch, Modified	165	Syd		
27	Aggregate Base, 8 inch, Modified	17,790	Syd		
28	Aggregate Surface Cse, 8"	830	Syd		
29	Approach, CI I, 6 inch	137	Syd		
30	HMA, 13A	2,700	Ton		
31	HMA 5E1	100	Ton		
32	HMA 3C	100	Ton		
33	HMA, Approach	273	Ton		
34	Conc Pavt, Nonreinf, 9 inch	165	Syd		
35	Driveway, Nonreinf Conc, 6 inch	1,600	Syd		
36	Curb and Gutter, Conc. Det F4	7,935	Ft		
37	Driveway Opening, Conc. Det M	95	Ft		
38	Sidewalk, Conc, 4 inch	5,860	Sft		
39	Sidewalk, Conc, 6 inch	3,005	Sft		
40	Sidewalk Ramp, Conc, 6 inch	2,310	Sft		
41	Detectable Warning Surface	200	Ft		
42	Turf Restoration	60	Sta		
43	Valve Box, Adjust	11	Ea		
44	Pavt Mrkg, Polyurea, 6 inch, Crosswalk, White	1,480	Ft		
45	Pavt Mrkg, Polyurea, 18 inch, Stop Bar, White	240	Ft		
46	Pavt Mrkg, Polyurea, 4 inch, Yellow	310	Ft		

Item No.	Description	Quantity	Unit	Unit Price	Total Amount
47	Sewer, Cl E, 12 inch, Tr Det B	1,205	Ft		
48	Sewer, Cl E, 15 inch, Tr Det B	166	Ft		
49	Sewer, Cl E, 36 Inch, Tr Det B	16	Ft		
50	Sewer, Cl E, 54 Inch, Tr Det B	70	Ft		
51	Sewer, Connect to Ex. 12"	2	Ea		
52	Sewer, Connect to Ex. 15"	5	Ea		
53	Sewer, Conenect to Ex. 18"	1	Ea		
54	Sewer, Connect to Ex. 36"	1	Ea		
55	Sewer, Connect to Ex. 54"	1	Ea		
56	Dr Structure, 24 inch dia	13	Ea		
57	Dr Structure, 48 inch dia	17	Ea		
58	Dr Structure, 84 inch dia	1	Ea		
59	Dr Structure Cover, Type B	7	Ea		
60	Dr Structure Cover, Type C	1	Ea		
61	Dr Structure Cover, Type K	23	Ea		
62	Dr Structure Cover Adj, Case 1	22	Ea		
63	Dr Structure Tap, 12 inch	9	Ft		
64	Dr Structure Tap, 24 inch	1	Ea		
65	Dr Structure Tap, 54 inch	1	Ea		
66	Sanitary Sewer, 8", Tr Det B	1,581	Ft		
67	Sanitary Sewer, 10", 0 - 16 Ft Deep, Tr Det B	295	Ft		
68	Sanitary Sewer, 10", Over 16 Ft Deep, Tr Det B	603	Ft		
69	Sanitary Sewer, 12", 0 - 16 Ft Deep, Tr Det B	2,292	Ft		
70	Sanitary Sewer, 12", Over 16 Ft Deep, Tr Det B	2,050	Ft		
71	Sanitary Sewer, 15", Tr Det B	51	Ft		
72	Sanitary Sewer, 24", Tr Det B	317	Ft		
73	Sanitary Sewer, 6", HDD	365	Ft		

Item No.	Description	Quantity	Unit	Unit Price	Total Amount
74	Sanitary Sewer, 8", HDD	383	Ft		
75	Sanitary Sewer, 10", HDD	225	Ft		
76	Steel Casing Pipe, 24" Jacked in Place	60	Ft		
77	Sanitary Manhole, 48" Dia	27	Ea		
78	Sanitary Manhole, 48" Dia, Over 16 Ft Deep	49.9	VF		
79	Sanitary Manhole, Doghouse, 48" Dia	1	Ea		
80	Sanitary Drop Manhole, 48" Dia	9	Ea		
81	Sanitary Manhole, 60" Dia	1	Ea		
82	Sanitary Sewer, Wye, 8 inch x 6 inch	6	Ea		
83	Sanitary Sewer, Wye, 10 inch x 6 inch	6	Ea		
84	Sanitary Sewer, Wye, 12 inch x 6 inch	18	Ea		
85	Sanitary Sewer, Wye, 24 inch x 6 inch	6	Ea		
86	Sanitary Lateral, 6 inch, Public	1,330	Ft		
87	Sanitary Lateral, Connect to Ex.	39	Ea		
88	Sanitary Sewer, Connect to Ex. 8"	21	Ea		
89	Sanitary Sewer, Connect to Ex. 12"	2	Ea		
90	Sanitary Sewer, Connect to Ex. 15"	1	Ea		
91	Sanitary Sewer, Connect to Ex. 24"	1	Ea		
92	Sanitary Sewer, CCTV	8,162	Ft		
93	Force Main, 1.25", Tr Det B	59	Ft		
94	Force Main, 10", Tr Det B	1,343	Ft		
95	Force Main, 10", HDD	2,398	Ft		
96	Force Main, 45° Bend, 10"	8	Ea		
97	Force Main, Sleeve, 10"	1	Ea		
98	Force Main Discharge Manhole	1	Ea		
99	Air Release Manhole, 48" Dia	3	Ea		
100	Grinder Station	1	Lsum		



Item No.	Description	Quantity	Unit	Unit Price	Total Amount
101	Sanitary Lift Station	1	Lsum		
102	Water Main, DI, 6 inch, Tr Det G	24	Ft		
103	Water Main, Sleeve, 6 inch	2	Ea		
<b>SRF Eligible Total:</b>					

#### DWRF Eligible

104	Curb and Gutter, Rem	1,270	Ft		
105	Pavt, Rem	260	Syd		
106	HMA Surface, Rem	1,805	Syd		
107	Sidewalk, Rem	189	Syd		
108	Aggregate Base, 8 inch, Modified	1,835	Syd		
109	HMA, 13A	320	Ton		
110	Driveway, Nonreinf Conc, 6 inch	255	Syd		
111	Curb and Gutter, Conc. Det F4	1,335	Ft		
112	Sidewalk, Conc, 4 inch	1,700	Sft		
113	Sidewalk Ramp, Conc, 6 inch	440	Sft		
114	Detectable Warning Surface	30	Ft		
115	Valve Box, Adjust	1	Ea		
116	Water Main, DI, 6 inch, Tr Det G	1,308	Ft		
117	Water Main, DI, 8 inch, Tr Det G	1,282	Ft		

Item No.	Description	Quantity	Unit	Unit Price	Total Amount
118	Water Main, Bend, 45 Degree, 6 inch	8	Ea		
119	Water Main, Bend, 45 Degree, 8 inch	3	Ea		
120	Water Main, Reducer, 8 inch x 6 inch	1	Ea		
121	Water Main, Sleeve, 6 inch	2	Ea		
122	Water Main, Sleeve, 8 inch	3	Ea		
123	Water Main, Tee, 6 inch x 6 inch x 6 inch	4	Ea		
124	Water Main, Tee, 8 inch x 8 inch x 6 inch	3	Ea		
125	Water Main, Cross, 8 inch x 8 inch x 8 inch x 8 inch	1	Ea		
126	Water Main, Tapping Sleeve and Valve, 8 inch x 8 inch	1	Ea		
127	Water Service, Corporation Stop, 1 inch	57	Ea		
128	Water Service, Curb Stop and Box, 1 inch	31	Ea		
129	Water Service, 1 inch	3,285	Ft		
130	Water Service, Meter Pit	30	Ea		
131	Hydrant, Rem	3	Ea		
132	Hydrant	7	Ea		
133	Water Main, Abandon	1,930	Ft		
134	Water Main, Rem	500	Ft		
135	Water Main, Valve and Box, 6 inch	9	Ea		
136	Water Main, Valve and Box, 8 inch	2	Ea		
137	Water Service Restoration, Private	60	Ea		
138	Sewer, Cl E, 12 inch, Tr Det B	82	Ft		
139	Dr Structure, 24 inch dia	2	Ea		
140	Dr Structure, 48 inch dia	1	Ea		
141	Dr Structure Tap, 12 inch	1	Ea		

Item No.	Description	Quantity	Unit	Unit Price	Total Amount
142	Dr Structure Cover, Type C	1	Ea		
143	Dr Structure Cover, Type K	2	Ea		
<b>DWRF Eligible Total:</b>					

#### Non-Eligible

144	Approach, CI I, 6 inch	150	Syd		
145	HMA, 13A	440	Ton		
146	HMA, Approach	29	Ton		
147	Driveway, Nonreinf Conc, 6 inch	372	Syd		
148	Sidewalk, Conc, 4 inch	400	Sft		
149	Sidewalk, Conc, 6 inch	345	Sft		
150	Curb and Gutter, Conc. Det F4	1,947	Ft		
151	Sanitary Lateral, 6 inch, Private	677	Ft		
152	Sanitary Lateral Restoration, Private	9	Ea		
<b>Non Eligible Total:</b>					
<b>Total Bid:</b>					

## **American Iron and Steel Contract Language**

The Contractor acknowledges to and for the benefit of the city of \_\_\_\_\_ ("Purchaser") and the Michigan Department of Environmental Quality (the "State") that it understands the goods and services under this Agreement are being funded with monies made available by the State Revolving Fund and/or the Drinking Water Revolving Fund and such law contains provisions commonly known as "American Iron and Steel (AIS)," that requires all iron and steel products used in the project be produced in the United States ("AIS Requirements") including iron and steel provided by the Contractor pursuant to this Agreement. The Contractor hereby represents and warrants to and for the benefit of the Purchaser and the State that (a) the Contractor has reviewed and understands the AIS Requirements, (b) all iron and steel used in the project will be and/or have been produced in the United States in a manner that complies with the AIS Requirements, unless a waiver of the requirements is approved or the State made the determination in writing that the AIS Requirements do not apply to the project, and (c) the Contractor will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the AIS requirements, as may be requested by the Purchaser. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Purchaser or State to recover as damages against the Contractor any loss, expense or cost (including without limitation attorney's fees) incurred by the Purchaser or State resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the State or any damages owed to the State by the Purchaser). While the Contractor has no direct contractual privity with the State, as a lender to the Purchaser for the funding of its project, the Purchaser and the Contractor agree that the State is a third-party beneficiary and neither this paragraph (nor any other provision of this Agreement necessary to give this paragraph force or effect) shall be amended or waived without the prior written consent of the State.