



**CITY OF NOVI CITY COUNCIL
MAY 8, 2023**

SUBJECT: Consideration of approval to award the construction contract to Fer-Pal Construction USA LLC, the low bidder, for the Westminster Subdivision Water Main Lining project, in the amount of \$952,481.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 952,481.00
AMOUNT BUDGETED	\$ 1,180,272.00
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	592-536.00-976-076

BACKGROUND INFORMATION:

The Westminster subdivision has experienced numerous water main breaks over the last ten years due to corrosion and deteriorated ductile iron pipe. The existing ductile iron water main was installed when the subdivision was built in the early 1990s. This project includes the lining of approximately 3,200 feet of 8-inch water main with a cured-in-place pipe (CIPP) lining. Since CIPP is a trenchless method of rehabilitating water main, the project will be less disruptive to the residents of Westminster than a traditional open-cut installation. The project will also include replacement of existing valves and hydrants. Temporary water service will be provided to the residents during the project.

OHM Advisors assisted the Engineering Division with developing engineering design plans for the project. The plans were advertised for public bids on March 20, 2023. Three (3) bids were received and opened on April 12, 2023, following the solicitation period. Fer-Pal Construction USA LLC, the low bidder, is recommended in the best interest of the City as it is responsive and complies with all requirements of the bidding instructions. The award recommendation letter including the bid tabulation is attached. A summary of the bids is as follows:

Contractor	Total Program Bid (includes Crew Days) *
Fer-Pal Construction USA LLC	\$ 990,881.00
LGC Global, Inc.	\$ 1,195,111.83
DVM Utilities, Inc.	\$ 1,712,750.00

***Crew Days are included to compare bids, but not included in the award**

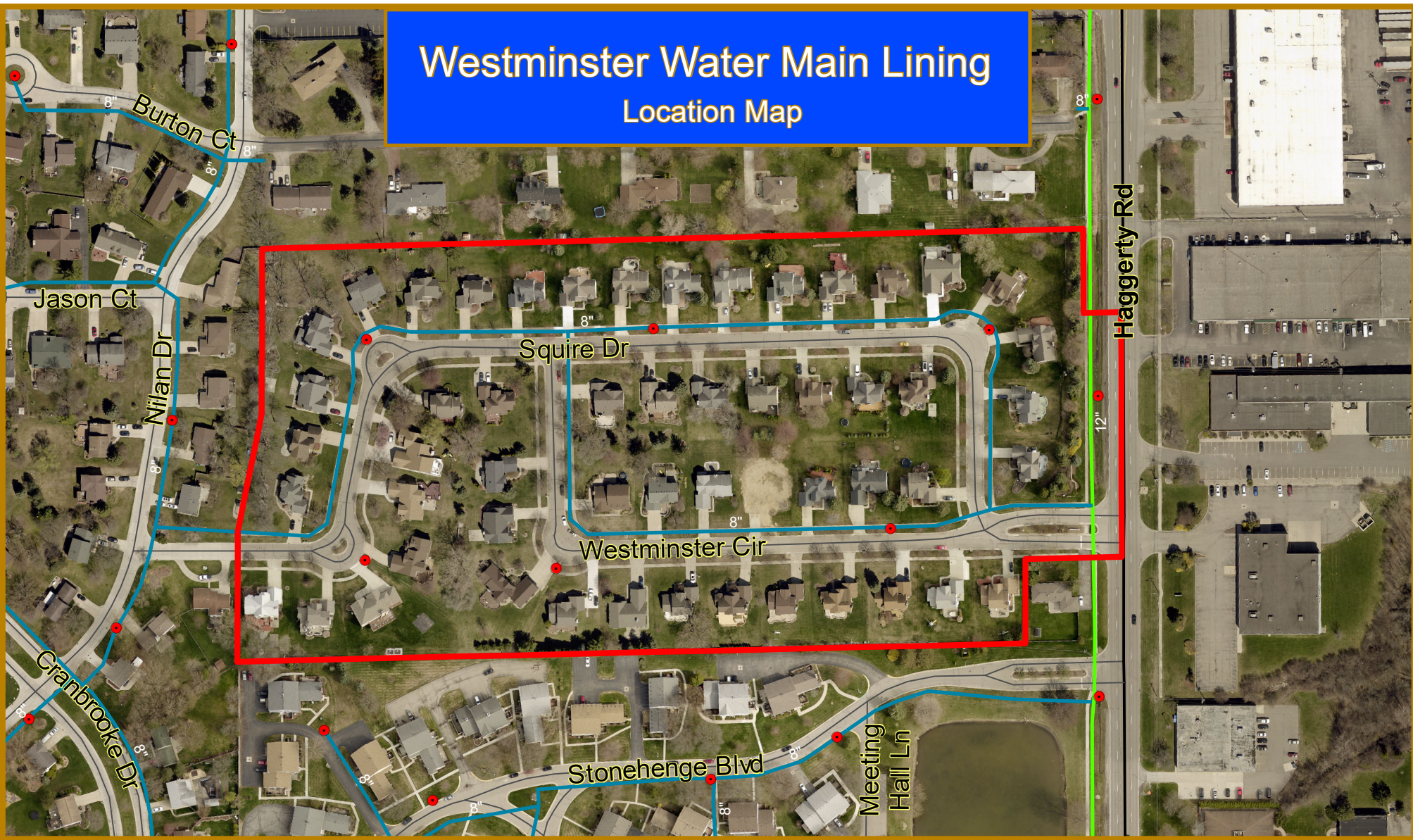
The contract administration and geotechnical engineering services related to this project will be awarded to the following pre-qualified firms using the fee percentages in the Agreements for Professional Engineering Services and Geotechnical Engineering Services for Public Projects. Construction is expected to occur June through August of this year.

OHM Advisors		
Contract Administration	4.5% of the construction award (\$952,481 X 0.045)	\$ 42,861.65
Crew Days	\$800 daily inspection fee x 48 days	\$ 38,400.00

Geotech		
Material testing services	2% of the construction award (\$952,481 X 0.02)	\$ 19,049.62

RECOMMENDED ACTION: Approval to award the construction contract to Fer-Pal Construction USA LLC, the low bidder, for the Westminster Subdivision Water Main Lining project, in the amount of \$952,481.

Westminster Water Main Lining Location Map



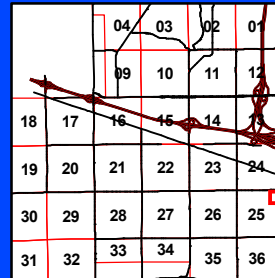
Map Author: Rebecca Runkel
Date: 7/8/22
Project: Westminster Water Main
Version #: 1.0

MAP INTERPRETATION NOTICE

Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

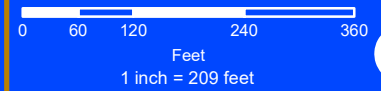
Legend

- Water Hydrant
- Water Main**
- Online**
- 8"
- 12"
- Project Area



City of Novi

Engineering Division
Department of Public Works
26300 Lee BeGole Drive
Novi, MI 48375
cityofnovi.org



April 20, 2023

Ben Croy, P.E.
City Engineer
City of Novi, Department of Public Works
26300 Lee Begole Drive
Novi, MI 48375

RE: Westminster Water Main Lining
Recommendation of Award

Dear Mr. Ben Croy:

Sealed bids for the Westminster Water Main Lining project were received and publicly read aloud on Wednesday, April 12, 2023, at the Civic Center, at 10:00 am. Proposals were received by the City from three (3) bidders. We have reviewed and checked the bids and attached the Bid Tabulation for your information. The lowest three bidders are as follows:

Contractor	TOTAL BID
Fer-Pal Construction USA LLC	\$990,881.00
LGC Global, Inc.	\$1,195,111.83
DVM Utilities, Inc.	\$1,712,750.00

The project scope consists of installing approximately 3,000 feet of Cured-In-Place-Pipe (CIPP) liner inside existing 8-inch water main, local valve and hydrant replacements, temporary water supply to residents during construction, and minor sidewalk, driveway, and roadway repairs with associated restoration work. The final engineer's estimate of probable construction costs was approximately \$818,000.

We believe the bid results were in part due to the 2023 completion schedule even though bidders were allowed to incorporate lead times attributed to procurement of materials. Additionally, there is a limited number of local contractors who can complete this type of work. Based on the current bidding environment and nationwide inflation, we are satisfied with the bid results.

Fer-Pal Construction USA LLC is the apparent lowest responsible bidder for this project. Fer-Pal Construction USA LLC has completed similar projects for many communities throughout Michigan. Therefore, we recommend award of this contract to Fer-Pal Construction USA LLC in the amount of **\$952,481.00** per the unit prices bid for the project. Please note that this contract award amount is derived from the total bid amount of \$990,881.00, less the crew day cost of \$38,400.

If you have any questions, please do not hesitate to call me at (248) 751-3111.

Sincerely,
OHM Advisors



Steven Siklich, P.E.
Project Manager



Encl: Bid Tabulation

cc: Jeff Herczeg, Director of Public Works
Aaron Staup, Construction Engineer
Rebecca Runkel, Project Engineer
Tim Juidici, P.E., OHM
Connor Lamb, OHM

Tabulation for Bids Received on 4/12/2023
 Westminster Water Main Lining
 City of Novi, Oakland County, State of Michigan
 OHM Job No.: 0163-22-0050

Fer-Pal Construction USA LLC
 26187 Northline Rd.
 Taylor, MI 48180

LGC Global, Inc.
 7310 Woodward Ave, STE 500
 Detroit, MI 48202

DVM Utilities, Inc.
 6045 Sims Dr. Suite #2
 Sterling Heights, MI 48307

Phone: (734) 946-2034

Phone: (313) 215-1669

Phone: (586) 979-0402

Item No.	Description	Estimated Quantity	Unit Price	Amount	Unit Price	Amount	Unit Price	Amount	
Division 1 - Base Bid Items									
1)	Mobilization, Max 5%	1.00	LSUM	\$38,500.00	\$38,500.00	\$55,638.56	\$55,638.56	\$60,000.00	\$60,000.00
2)	Audio Video Route Survey	1.00	LSUM	\$2,500.00	\$2,500.00	\$1,489.86	\$1,489.86	\$1,500.00	\$1,500.00
3)	Traffic Maintenance and Control	1.00	LSUM	\$5,000.00	\$5,000.00	\$76,798.83	\$76,798.83	\$20,000.00	\$20,000.00
4)	Tree, Rem, 6 inch to 18 inch	3.00	Ea	\$1,600.00	\$4,800.00	\$1,203.03	\$3,609.09 ¹	\$900.00	\$2,700.00
5)	Tree, Replace, 2.5 inch	3.00	Ea	\$1,000.00	\$3,000.00	\$867.10	\$2,601.30 ¹	\$900.00	\$2,700.00
6)	Curb and Gutter, Rem	92.00	Ft	\$25.00	\$2,300.00	\$11.34	\$1,043.28 ¹	\$20.00	\$1,840.00
7)	Sidewalk, Rem	176.00	Syd	\$11.00	\$1,936.00	\$77.73	\$13,680.48 ¹	\$15.00	\$2,640.00
8)	Pavt, Rem, Modified	65.00	Syd	\$20.00	\$1,300.00	\$67.37	\$4,379.05 ¹	\$30.00	\$1,950.00
9)	Water Main Lining Access Pit	10.00	Ea	\$11,180.00	\$111,800.00	\$11,488.42	\$114,884.20	\$8,000.00	\$80,000.00
10)	Erosion Control, Inlet Protection, Fabric Drop	19.00	Ea	\$200.00	\$3,800.00	\$192.74	\$3,662.06 ¹	\$100.00	\$1,900.00
11)	Aggregate Base, 21AA, 4 inch	170.00	Syd	\$22.00	\$3,740.00	\$15.42	\$2,621.40 ¹	\$19.00	\$3,230.00
12)	Aggregate Base, 21AA, 6 inch	83.00	Syd	\$28.00	\$2,324.00	\$19.79	\$1,642.57 ¹	\$23.00	\$1,909.00
13)	Aggregate Base, 21AA, 8 inch	25.00	Syd	\$39.00	\$975.00	\$23.81	\$595.25 ¹	\$26.00	\$650.00
14)	Maintenance Aggregate, 21AA	150.00	Ton	\$35.00	\$5,250.00	\$35.21	\$5,281.50 ¹	\$55.00	\$8,250.00
15)	Dr Structure Cover, Adj, Case 2	1.00	Ea	\$2,200.00	\$2,200.00	\$2,003.11	\$2,003.11	\$1,400.00	\$1,400.00
16)	Hand Patching, HMA	30.00	Syd	\$135.00	\$4,050.00	\$33.68	\$1,010.40 ¹	\$170.00	\$5,100.00
17)	Driveway, Nonreinf Conc, 6 inch	35.00	Syd	\$110.00	\$3,850.00	\$83.82	\$2,933.70 ¹	\$60.00	\$2,100.00
18)	Curb and Gutter, Conc	72.00	Ft	\$100.00	\$7,200.00	\$56.36	\$4,057.92 ¹	\$71.00	\$5,112.00
19)	Detectable Warning Surface	14.00	Ft	\$16.00	\$224.00	\$42.75	\$598.50 ¹	\$60.00	\$840.00
20)	Curb Ramp Opening, Conc	20.00	Ft	\$36.00	\$720.00	\$54.41	\$1,088.20 ¹	\$65.00	\$1,300.00
21)	Sidewalk, Conc, 4 inch	1470.00	Sft	\$9.00	\$13,230.00	\$16.84	\$24,754.80 ¹	\$9.00	\$13,230.00
22)	Curb Ramp, Conc, 6 inch	100.00	Sft	\$10.00	\$1,000.00	\$54.41	\$5,441.00 ¹	\$13.00	\$1,300.00
23)	Mailbox, Remove, Salvage, and Replace	3.00	Ea	\$425.00	\$1,275.00	\$179.78	\$539.34 ¹	\$200.00	\$600.00
24)	Turf Establishment, Performance	600.00	Syd	\$35.00	\$21,000.00	\$31.00	\$18,600.00 ¹	\$20.00	\$12,000.00
25)	Fire Hydrant	6.00	Ea	\$12,500.00	\$75,000.00	\$8,622.94	\$51,737.64 ¹	\$12,000.00	\$72,000.00
26)	Gate Well, Rem	4.00	Ea	\$1,895.00	\$7,580.00	\$735.98	\$2,943.92 ¹	\$2,200.00	\$8,800.00
27)	Hydrant, Rem	6.00	Ea	\$1,250.00	\$7,500.00	\$743.42	\$4,460.52 ¹	\$2,200.00	\$13,200.00
28)	CIPP Water Main Lining, 8 inch	3003.00	Ft	\$98.00	\$294,294.00	\$152.37	\$457,567.11 ¹	\$313.00	\$939,939.00
29)	Pre and Post Lining CCTV Inspection, 8 inch	3003.00	Ft	\$16.00	\$48,048.00	\$25.91	\$77,807.73 ¹	\$20.00	\$60,060.00
30)	Connect to Existing Water Main	2.00	Ea	\$9,950.00	\$19,900.00	\$5,461.31	\$10,922.62 ¹	\$7,500.00	\$15,000.00
31)	Gate Valve and Well, 8 inch	4.00	Ea	\$15,800.00	\$63,200.00	\$7,795.96	\$31,183.84 ¹	\$12,000.00	\$48,000.00
32)	Water Main Line Stop, 8 inch	1.00	Ea	\$13,500.00	\$13,500.00	\$6,801.52	\$6,801.52	\$12,000.00	\$12,000.00 ¹
33)	Water Service, Reconnect, 1 inch	5.00	Ea	\$3,900.00	\$19,500.00	\$5,311.66	\$26,558.30	\$1,300.00	\$6,500.00
34)	Temporary Water Supply System	1.00	LSUM	\$161,985.00	\$161,985.00	\$128,174.23	\$128,174.23	\$229,000.00	\$229,000.00
35)	Crew Day	\$800.00	Ea	48	\$38,400.00	60	\$48,000.00	95	\$76,000.00
Total Bid Amount for Base Bid (ITEMS 1-13 incl.):					<u>\$990,881.00</u>		<u>\$1,195,111.83²</u>		<u>\$1,712,750.00²</u>

CORRECTIONS

¹ Amount adjusted to reflect bidder's multiplication error

² Total adjusted to reflect bidder's above error

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 City of Novi, Oakland County, State of Michigan
 OHM Job No.: 0163-22-0050

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 6045 Sims Dr. Suite #2
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24)	Turf Establishment, Performance	600.00	Syd	\$35.00	\$21,000.00	\$31.00	\$18,600.00 ¹	\$20.00	\$12,000.00
25)	Fire Hydrant	6.00	Ea	\$12,500.00	\$75,000.00	\$8,622.94	\$51,737.64 ¹	\$12,000.00	\$72,000.00
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28)	CIPP Water Main Lining, 8 inch	3003.00	Ft	\$98.00	\$294,294.00	\$152.37	\$457,567.11 ¹	\$313.00	\$939,939.00
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31)	Gate Valve and Well, 8 inch	4.00	Ea	\$15,800.00	\$63,200.00	\$7,795.96	\$31,183.84 ¹	\$12,000.00	\$48,000.00
32)	Water Main Line Stop, 8 inch	1.00	Ea	\$13,500.00	\$13,500.00	\$6,801.52	\$6,801.52	\$12,000.00	\$12,000.00 ¹
33)	Water Service, Reconnect, 1 inch	5.00	Ea	\$3,900.00	\$19,500.00	\$5,311.66	\$26,558.30	\$1,300.00	\$6,500.00
34)	Temporary Water Supply System	1.00	LSUM	\$161,985.00	\$161,985.00	\$128,174.23	\$128,174.23	\$229,000.00	\$229,000.00
35)	Crew Day	\$800.00	Ea	48	\$38,400.00	60	\$48,000.00	95	\$76,000.00
Total Bid Amount for Base Bid (ITEMS 1-13 incl.):					<u>\$990,881.00</u>		<u>\$1,195,111.83²</u>		<u>\$1,712,750.00²</u>

CORRECTIONS

¹ Amount adjusted to reflect bidder's multiplication error

² Total adjusted to reflect bidder's above error

BID
for
Westminster Water Main Lining

Bid of Fer-Pal Construction USA LLC hereinafter called Bidder, organized and existing under the laws of or a resident of the State of Michigan, doing business as a Limited Liability Company _____ *

Insert as applicable: "a corporation", "a partnership" or "an individual".

TO THE CITY OF NOVI, MICHIGAN, hereinafter called OWNER:

The undersigned as Bidder hereby declares: that this Bid is made in good faith without fraud or collusion with any person or persons bidding on the same Contract; that the Bidder has read and examined the Advertisement for Bids, Instructions to Bidders, Bid, General Conditions, Supplementary Conditions, Agreement, Forms of Bond, Specifications and Drawings, as prepared by the ENGINEER, and understands all of the same; that the Bidder or its representative has made personal investigation at the site and has become fully familiar with regard to the conditions to be met in the execution of this Contract, and the undersigned proposes to furnish all labor, materials, tools, power, transportation, and construction equipment necessary for the construction of the Project and performing related work in full accordance with the aforesaid Contract Documents, including any and all Addenda officially issued, their receipt of which is hereby acknowledged:

Addendum No.
1

Addendum Date
April 6, 2023

The Contract will be awarded to the lowest responsive, responsible Bidder based on the unit prices for all Work specified.

The Bidder agrees to complete the Project for the following unit prices:

[Faint mirrored text from reverse side of page]



Item No.	Item Description	Qty	Unit	Unit Price	Total Price
Category 1 - All					
1	Mobilization, Max 5%	1.00	LSUM	\$ 38,500.00	\$ 38,500.00
2	Audio Video Route Survey	1.00	LSUM	\$ 2,500.00	\$ 2,500.00
3	Traffic Maintenance and Control	1.00	LSUM	\$ 5,000.00	\$ 5,000.00
4	Tree, Rem, 6 inch to 18 inch	3.00	Ea	\$ 1,600.00	\$ 4,800.00
5	Tree, Replace, 2.5 inch	3.00	Ea	\$ 1,000.00	\$ 3,000.00
6	Curb and Gutter, Rem	92.00	Ft	\$ 25.00	\$ 2,300.00
7	Sidewalk, Rem	176.00	Syd	\$ 11.00	\$ 1,936.00
8	Pavt, Rem, Modified	65.00	Syd	\$ 20.00	\$ 1,300.00
9	Water Main Lining Access Pit	10.00	Ea	\$ 11,180.00	\$ 111,800.00
10	Erosion Control, Inlet Protection, Fabric Drop	19.00	Ea	\$ 200.00	\$ 3,800.00
11	Aggregate Base, 21AA, 4 inch	170.00	Syd	\$ 22.00	\$ 3,740.00
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15	Dr Structure Cover, Adj, Case 2	1.00	Ea	\$ 2,200.00	\$ 2,200.00
16	Hand Patching, HMA	30.00	Syd	\$ 135.00	\$ 4,050.00
17	Driveway, Nonreinf Conc, 6 inch	35.00	Syd	\$ 110.00	\$ 3,850.00
18	Curb and Gutter, Conc	72.00	Ft	\$ 100.00	\$ 7,200.00
19	Detectable Warning Surface	14.00	Ft	\$ 16.00	\$ 224.00
20	Curb Ramp Opening, Conc	20.00	Ft	\$ 36.00	\$ 720.00
21	Sidewalk, Conc, 4 inch	1470.00	Sft	\$ 9.00	\$ 13,230.00
22	Curb Ramp, Conc, 6 inch	100.00	Sft	\$ 10.00	\$ 1,000.00
23	Mailbox, Remove, Salvage, and Replace	3.00	Ea	\$ 425.00	\$ 1,275.00
24	Turf Establishment, Performance	600.00	Syd	\$ 35.00	\$ 21,000.00
25	Fire Hydrant	6.00	Ea	\$ 12,500.00	\$ 75,000.00
26	Gate Well, Rem	4.00	Ea	\$ 1,895.00	\$ 7,580.00
27	Hydrant, Rem	6.00	Ea	\$ 1,250.00	\$ 7,500.00



Item No.	Item Description	Qty	Unit	Unit Price	Total Price
28	CIPP Water Main Lining, 8 inch	3003.00	Ft	\$ <u>98.00</u>	\$ <u>294,294.00</u>
29	Pre and Post Lining CCTV Inspection, 8 inch	3003.00	Ft	\$ <u>16.00</u>	\$ <u>48,048.00</u>
30	Connect to Existing Water Main	2.00	Ea	\$ <u>9,950.00</u>	\$ <u>19,900.00</u>
31	Gate Valve and Well, 8 inch	4.00	Ea	\$ <u>15,800.00</u>	\$ <u>63,200.00</u>
32	Water Main Line Stop, 8 inch	1.00	Ea	\$ <u>13,500.00</u>	\$ <u>13,500.00</u>
33	Water Service, Reconnect, 1 inch	5.00	Ea	\$ <u>3,900.00</u>	\$ <u>19,500.00</u>
34	Temporary Water Supply System	1.00	LSUM	\$ <u>161,985.00</u>	\$ <u>161,985.00</u>
35	Crew Days	<u>48</u>	Day	\$ <u>800</u>	\$ <u>38,400.00</u>
Total Bid Amount (ITEM 1-35 incl.):					\$ <u>990,881.00</u>

