



**CITY OF NOVI CITY COUNCIL
JULY 31, 2023**

SUBJECT: Consideration of Approval of Change Order No. 5 to Pamar Enterprises, Inc. for the replacement of ductile iron water main along Roethel Drive as part of the 2022 Asbestos-Cement Water Main Replacement Program in the amount of \$1,263,907.25.

SUBMITTING DEPARTMENT: Department of Public Works – Engineering Division

EXPENDITURE REQUIRED	\$ 1,263,907.25
AMOUNT BUDGETED	\$ 1,546,788.00
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	592-536.00-976.124

BACKGROUND INFORMATION:

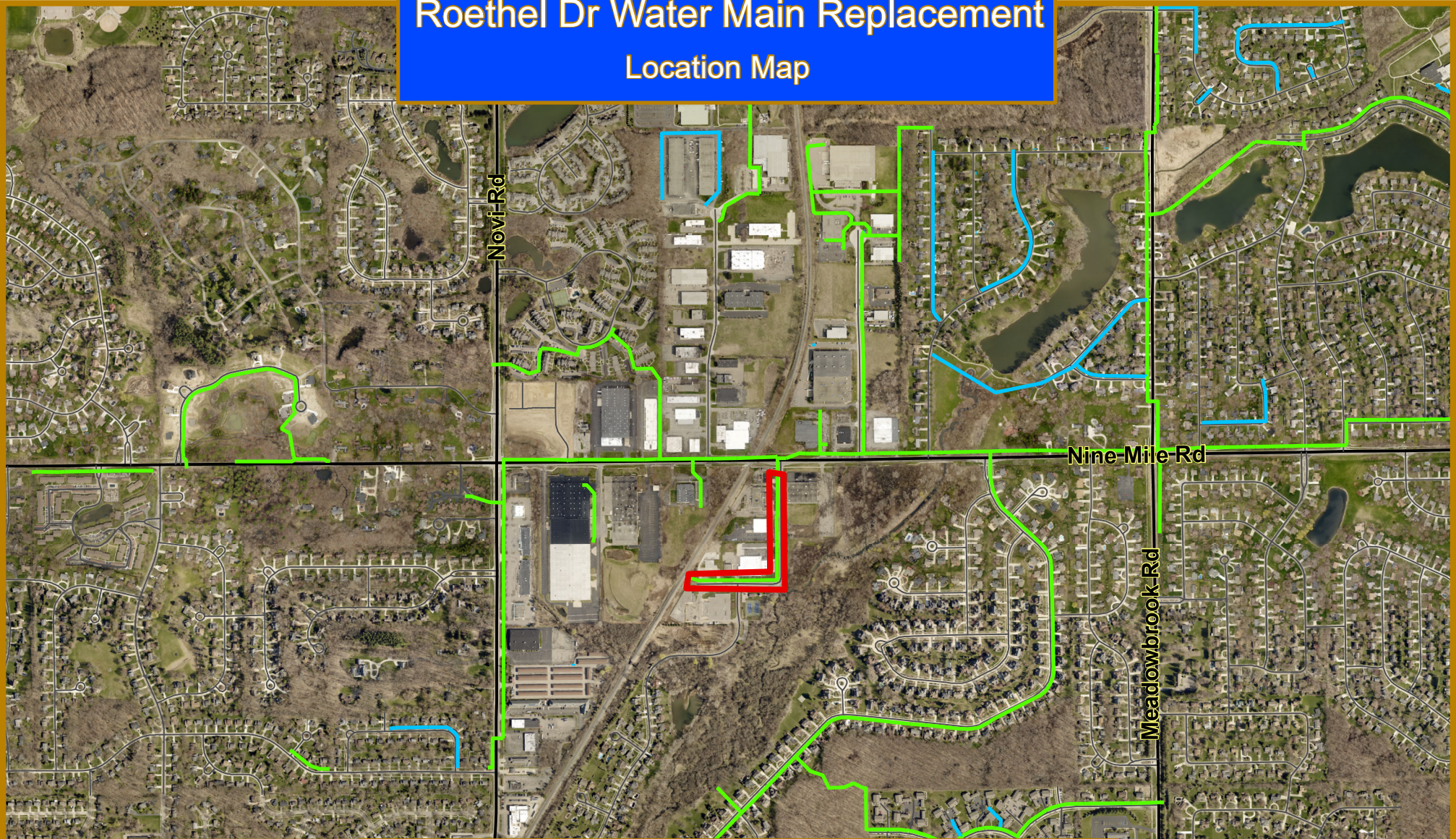
The City's 2017 Water Asset Management Plan and the 2021 Water System Master Plan recommended replacement of the approximately 30 miles of Asbestos-Cement (AC) water main that exists throughout the city, as well as replacement of specific locations with ductile iron pipe, such as Roethel Drive. The City's engineering consultant, Spalding DeDecker, completed design of the initial phase of the program in 2022, which is currently wrapping up construction, and they are now working on the design for the next three phases of water main replacement. Design of water main replacement along Roethel Drive is complete, and City staff recommends issuing a change order to the 2022 program's contractor, Pamar Enterprises to lock in unit prices and continue work on the next phase of the project.

The contract administration and geotechnical engineering services related to this project addition will be granted 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 would begin after Labor Day.

Spalding DeDecker		
Contract Administration	5% of the Change Order value (\$1,263,907.25 X 0.05)	\$ 63,195.36
Crew Days	\$800 daily inspection fee 74 days	\$ 59,200
G2 Consulting Group, Inc. (G2)		
Material testing services	1.9% of the Change Order value (\$1,263,907.25 X 0.019)	\$ 24,014.23

RECOMMENDED ACTION: Approval of Change Order No. 5 to Pamar Enterprises, Inc. for the replacement of ductile iron water main along Roethel Drive as part of the 2022 Asbestos-Cement Water Main Replacement Program in the amount of \$1,263,907.25.

Roethel Dr Water Main Replacement Location Map



Map Author: Rebecca Runkel
 Date: 7-18-23
 Project: Roethel Dr WM Replacement
 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.

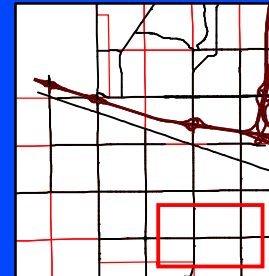
Legend

Water Main

Online

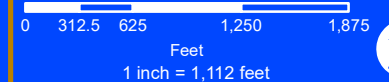
- 6"
- 12"

2023 Project Area



City of Novi

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



NEW CONTRACT ITEMS

Item No.	Division	Item Description	Unit	Unit Price	Quantity	Contract Price		
						Add	Deduct	
163	4	Mobilization, Max - Roethel	LS	\$63,000.00	1	\$63,000.00		
164	4	Pre-Construction Audio Visual - Roethel	LS	\$700.00	1	\$700.00		
165	4	Clearing - Roethel	LS	\$2,500.00	1	\$2,500.00		
166	4	Tree, Rem, 6 inch to 18 inch - Roethel	EA	\$500.00	2	\$1,000.00		
167	4	Sewer, Rem, Less than 24 inch - Roethel	FT	\$10.00	152	\$1,520.00		
168	4	Sewer, Rem, 24 inch to 48 inch	FT	\$19.00	24	\$456.00		
169	4	Exploratory Investigation, Vertical - Roethel	FT	\$35.00	100	\$3,500.00		
170	4	Curb and Gutter, Conc, Rem - Roethel	FT	\$12.00	303	\$3,636.00		
171	4	Driveway, Rem, Modified - Roethel	SYD	\$16.00	197	\$3,152.00		
172	4	Excabation, Earth - Roethel	CYD	\$55.00	145	\$7,975.00		
173	4	Subgrade Undercut (As-Needed) - Roethel	CYD	\$78.00	100	\$7,800.00		
174	4	Soil Erosion Control Measures - Roethel Dr	LS	\$9,900.00	1	\$9,900.00		
175	4	Aggregate Base, 8 inch, Limestone - Roethel	SYD	\$15.50	3104	\$48,112.00		
176	4	Sewer, Cl E, 12 inch, Tr Det B - Roethel	FT	\$126.00	64	\$8,064.00		
177	4	Sewer, Cl E, 18 inch, Tr Det B - Roethel	FT	\$165.00	64	\$10,560.00		
178	4	Sewer, Cl E, 21 inch, Tr Det B - Roethel	FT	\$178.00	24	\$4,272.00		
179	4	Sewer, Cl E, 24 inch, Tr Det B - Roethel	FT	\$198.00	24	\$4,752.00		
180	4	Dr Structure, Temp Lowering - Roethel	EA	\$395.00	4	\$1,580.00		
181	4	Str Rehab Type 2: Structure Cover Adjust - Rot	EA	\$1,450.00	4	\$5,800.00		
182	4	HMA Cold Milling - Roethel	SYD	\$4.00	4484	\$17,936.00		
183	4	HMA Surface, Rem, Modified - Roethel	SYD	\$5.50	2838	\$15,609.00		
184	4	HMA, Drive Approach - Roethel	TON	\$227.00	48	\$10,896.00		
185	4	HMA, 4EML - Roethel	TON	\$115.15	818	\$94,192.70		
186	4	HMA, 5EML - Roethel	TON	\$127.85	879	\$112,380.15		
187	4	Curb and Gutter, Conc, Modified - Roethel	FT	\$55.00	303	\$16,665.00		
188	4	Post, Mailbox - Roethel	EA	\$25.00	3	\$75.00		
190	4	Mailbox, Remove and Replace - Roethel	EA	\$200.00	5	\$1,000.00		
200	4	Temporary Traffic Control - Roethel	LS	\$12,500.00	1	\$12,500.00		
201	4	Tree Replacement - Roethel	EA	\$1,150.00	2	\$2,300.00		
202	4	Surface Restoration - Roethel	LS	\$45,000.00	1	\$45,000.00		
203	4	Hydrant, Rem - Roethel	EA	\$900.00	6	\$5,400.00		
204	4	Water Structure, Rem - Roethel	EA	\$900.00	3	\$2,700.00		
205	4	Water Structure, Abandon - Roethel	EA	\$450.00	4	\$1,800.00		
206	4	Water Main, Rem - Roethel	FT	\$65.00	403	\$26,195.00		
207	4	Water Main, Abandon - Roethel	FT	\$4.00	1631	\$6,524.00		
208	4	Water Main, 4 inch, Open Cut - Roethel	FT	\$188.00	45	\$8,460.00		
209	4	Water Main, 8 inch, Open Cut - Roethel	FT	\$199.25	144	\$28,692.00		
210	4	Water Main, 12 inch, Open Cut - Roethel	FT	\$259.90	1646	\$427,795.40		
211	4	Gate Valve and Well, 4 inch, Modified - Roethel	EA	\$7,800.00	1	\$7,800.00		
212	4	Gate Valve and Well, 8 inch, Modified - Roethel	EA	\$9,250.00	3	\$27,750.00		
213	4	Gate Valve and Well, 12 inch, Modified - Roethel	EA	\$10,265.00	5	\$51,325.00		
214	4	In Line Stop, 8 inch - Roethel	EA	\$500.00	2	\$1,000.00		
215	4	In Line Stop, 12 inch - Roethel	EA	\$650.00	2	\$1,300.00		
216	4	Hydrant Assembly - Roethel	EA	\$8,858.00	6	\$53,148.00		
217	4	Water Main, Conn New 4" to Existing 4" - Rothe	EA	\$6,578.00	1	\$6,578.00		
218	4	Water Main, Conn New 8" to Existing 8" - Rothe	EA	\$9,180.00	4	\$36,720.00		
219	4	Water Main, Conn New 12" to Existing 12" - Rot	EA	\$11,321.00	2	\$22,642.00		
220	4	Water Sampling Station - Roethel	EA	\$2,500.00	1	\$2,500.00		
221	4	Water Serv, 1 inch - Roethel	FT	\$55.00	195	\$10,725.00		
222	4	Water Serv, 1.5 inch - Roethel	FT	\$76.00	145	\$11,020.00		
223	4	Sanitary Sewer, PVC, 6 inch, Tr Det B2 - Roethel	FT	\$60.00	100	\$6,000.00		
224	4	Permit Allowance - Roethel	DLR	\$1.00	1000	\$1,000.00		
225	4	Crew Days - Division 4 Roethel	CD	\$800.00	74	\$59,200.00		
						Subtotals	\$1,323,107.25	
						Total		\$1,323,107.25

Increase/Decrease in Contract Price	\$1,323,107.25
Original Contract Amount	\$6,532,828.15
Sum of Previous Approved Change Orders	\$21,014.37
Revised Contract Amount	\$7,876,949.77

THE CHANGES ADDRESSED BY THIS CHANGE ORDER HEREBY ADJUSTS THE CONTRACT TIME BY:

Accepted By: _____
Pamar Enterprises, Inc.

Prepared By: _____
Spalding DeDecker & Associates

Reviewed By: _____
Aaron J. Staup, Construction Engineer

Approved By: _____
Tracey Marzonie, Purchasing Manager