



CITY OF NOVI CITY COUNCIL
MAY 8, 2023

SUBJECT: Consideration of approval to authorize additional design services to Spalding DeDecker for the next three phases of water main replacement in the City's water distribution system, in the amount of \$280,790.76.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 247,745.07 AC Water Main Replacement <u>\$ 33,045.69 Roethel Dr Water Main Replacement</u> \$ 280,790.76 TOTAL
AMOUNT BUDGETED	\$ 704,375.00 AC Water Main Replacement <u>\$ 83,723.00 Roethel Dr Water Main Replacement</u> \$ 788,098.00 TOTAL
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	592-536.00-976.005 AC Water Main Replacement 592-536.00-976.124 Roethel Dr Water Main Replacement

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 under construction, and they are now working on the design for the next three phases, which are as follows:

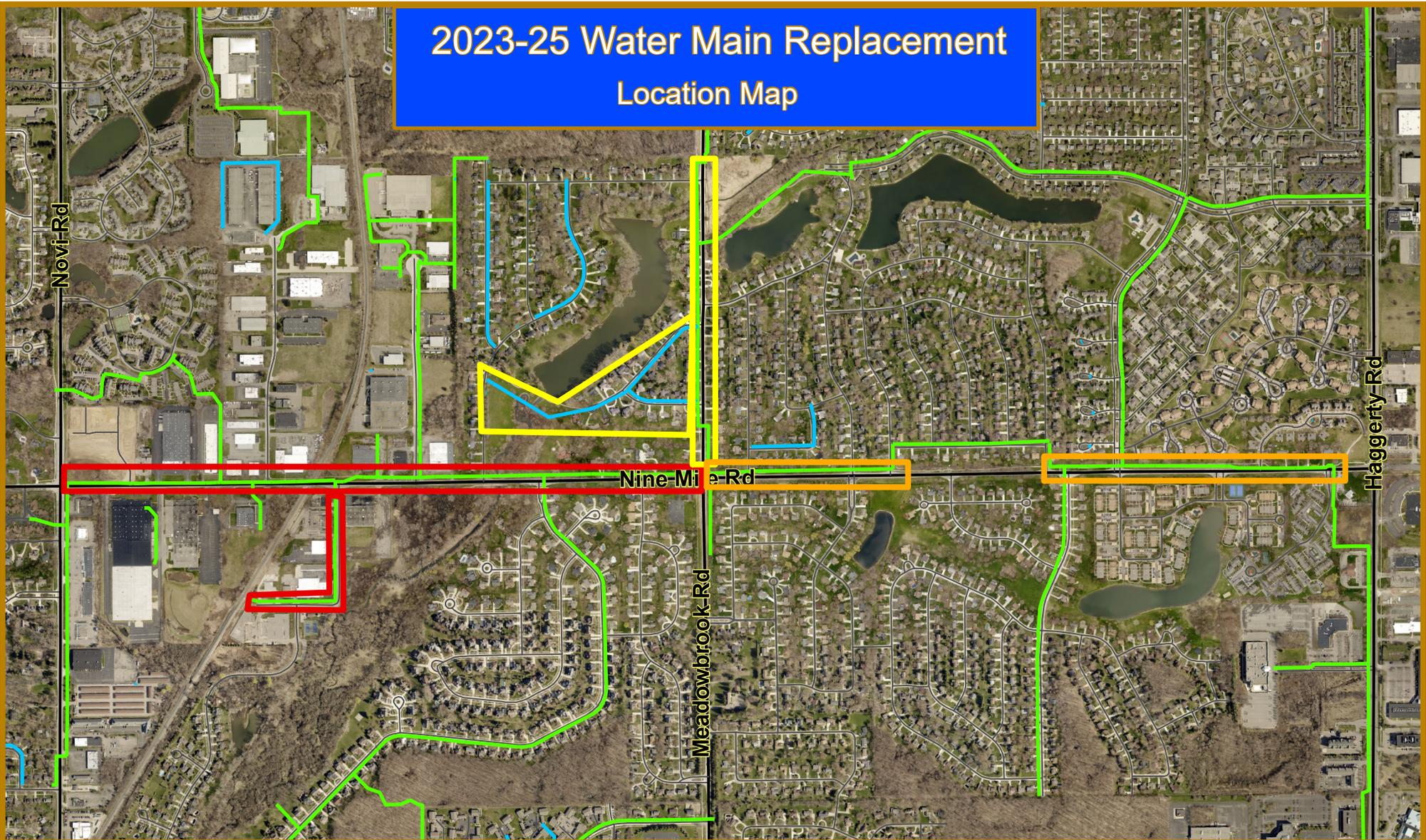
- Phase 2 (2023) – 9 Mile Rd, from Novi Rd to Meadowbrook Rd and Roethel Drive
- Phase 3 (2024) – 9 Mile Rd, from Meadowbrook Rd to Haggerty Rd
- Phase 4 (2025) – Meadowbrook Road, from 9 Mile Rd to Chattman Dr and Penton Rise Ct and Glyme Dr in the Meadowbrook Lake subdivision

The attached Authorization for Additional Services outlines the increased scope of services, which is primarily the result of separating the project into three phases. The additional design fee to complete design on all three phases totals \$280,790.76 based on the increased construction cost estimates. Spalding DeDecker's engineering fees are based on the fixed fee schedule established in the Agreement for Professional Engineering Services for Public Projects. The table below shows the original estimated costs along with the current estimated costs and their associated design fees:

*Design fee @ 6.25%	Original construction estimates from proposal	Revised construction estimates after split	Current Design Purchase Order	Additional Design Funds Requested
2023 – Phase 2	\$1,750,000	\$3,708,259	\$109,375.00	\$122,391.19
2023 – Phase 2 (Roethel Dr)	\$645,000	\$1,173,731	\$40,312.50	\$33,045.69
2024 – Phase 3	\$1,750,000	\$2,365,350	\$109,375.00	\$38,459.38
2025 – Phase 4	\$2,100,000	\$3,490,312	\$131,250.00	\$86,894.50
TOTAL	\$6,245,000	\$10,737,652	\$390,312.50	\$280,790.76

RECOMMENDED ACTION: Approval to authorize additional engineering design services to Spalding DeDecker for the next three phases of water main replacement in the City's water distribution system, in the amount of \$280,790.76.

2023-25 Water Main Replacement Location Map



Map Author: Rebecca Runkel
Date: 4-25-23
Project: WM Replacement 23-25
Version #: 1.0

MAP INTERPRETATION NOTICE

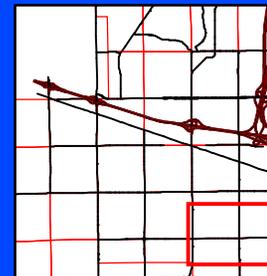
Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate 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
-  2024 Project Area
-  2025 Project Area



City of Novi

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

0 312.5 625 1,250 1,875
Feet
1 inch = 1,112 feet





AUTHORIZATION FOR ADDITIONAL SERVICES No. 1

PROJECT: 2023, 2024, 2025 Asbestos Cement Water Main Replacement
DATE: April 20, 2023
P.O. No: 97192

DESCRIPTION OF ADDITIONAL SERVICES:

Design scope adjustment due to staging and connection costs as well as additional costs of pavement replacement due to soils reports showing specifics of underlying pavement needing to be matched. Updated construction costs to current bid pricing, then dividing project into the three bid packages of 2023,2024, and 2025.

ORIGINAL SCOPE OF WORK:

[Provide an itemized list of tasks related to the original scope and provide a cost associated with each task]

ITEMIZED COST

• <u>2023 - Ph 2 AC</u>	\$ 109,375.00
• <u>2023 - Roethel Drive DI WM</u>	\$ 40,312.50
• <u>2024 - Ph 3</u>	\$ 109,375.00
• <u>2025 - Ph 4</u>	\$ 131,250.00
• _____	
• _____	

Total amount authorized for original scope: **\$390,312.50**
(Amount should match issued/amended Purchase Order)

PROPOSED SCOPE OF WORK:

[Original scope and cost plus (+) an itemized list of tasks and costs related to the proposed scope change]

ITEMIZED COST

• <u>2023 - Ph 2 AC</u>	\$ 231,766.19
• <u>2023 - Roethel Drive DI WM</u>	\$ 73,358.19
• <u>2024 - Ph 3</u>	\$ 147,834.38
• <u>2025 - Ph 4</u>	\$ 218,144.50
• _____	
• _____	

Total proposed amount authorized for new scope: **\$671,103.26**

Based on the revised scope of services, we request authorization for an increase to the amount authorized under the previous scope of services in the amount of:

\$280,790.76

CONSULTANT

Requested by: 
Taylor Reynolds, Project Manager

Date: 4/20/23

CITY OF NOVI

Approved by: 
Rebecca Runkel, Project Engineer

Date: 4/24/23

Approved by: _____
Tracey Marzonié, Purchasing Manager

Date: _____