



**CITY OF NOVI CITY COUNCIL
MAY 24, 2021**

SUBJECT: Consideration of approval to award engineering design services to OHM Advisors for Taft Road Rehabilitation, City Limits to Ten Mile Road, and Taft Road and Nine Mile Road Roundabout in the amount of \$235,685.00.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 235,685.00
AMOUNT BUDGETED	\$ 77,690.00 FY 2020-21 Budget \$ 158,050.00 FY 2021-22 Budget \$ 235,740.00 TOTAL
APPROPRIATION REQUIRED	0
LINE ITEM NUMBER	202-202.00-865.271

BACKGROUND INFORMATION: The Taft Road Rehabilitation project, from the south City limits to Ten Mile Road, will include a crush and shape treatment of the existing asphalt pavement to prepare for new asphalt pavement. Curb and gutter will be replaced where needed, turn lanes will be reconstructed or added and drainage structures will be repaired. Additionally, pedestrian ramps will be upgraded at side street intersections. Existing bike lanes will be reconstructed, and new bike lanes will be added on both sides from 9 Mile Road to 10 Mile Road. The road rehabilitation project will be combined with the construction of a single-lane roundabout (RAB) at the intersection of Taft Road and Nine Mile Road.

In 2019, the City applied for and received \$910,088 in federal funds for the project through the Oakland County Federal Aid Committee (FAC) to rehabilitate Taft Road in 2023 with a 2" inch mill and asphalt overlay. In 2020, the City applied for and received \$600,000 in federal funds through the Highway Safety Improvement Program (HSIP) for construction of the roundabout at the Taft Rd/Nine Mile Rd intersection in 2022. At the City's request, the Taft Road FAC funds were moved ahead to 2022, so that the two projects could be combined.

Constructing both projects at once will provide efficiency, and since the roundabout construction consists of a full recon, staff recommends modifying the proposed Taft Road rehabilitation. The project will now include a more aggressive crush and shape and an

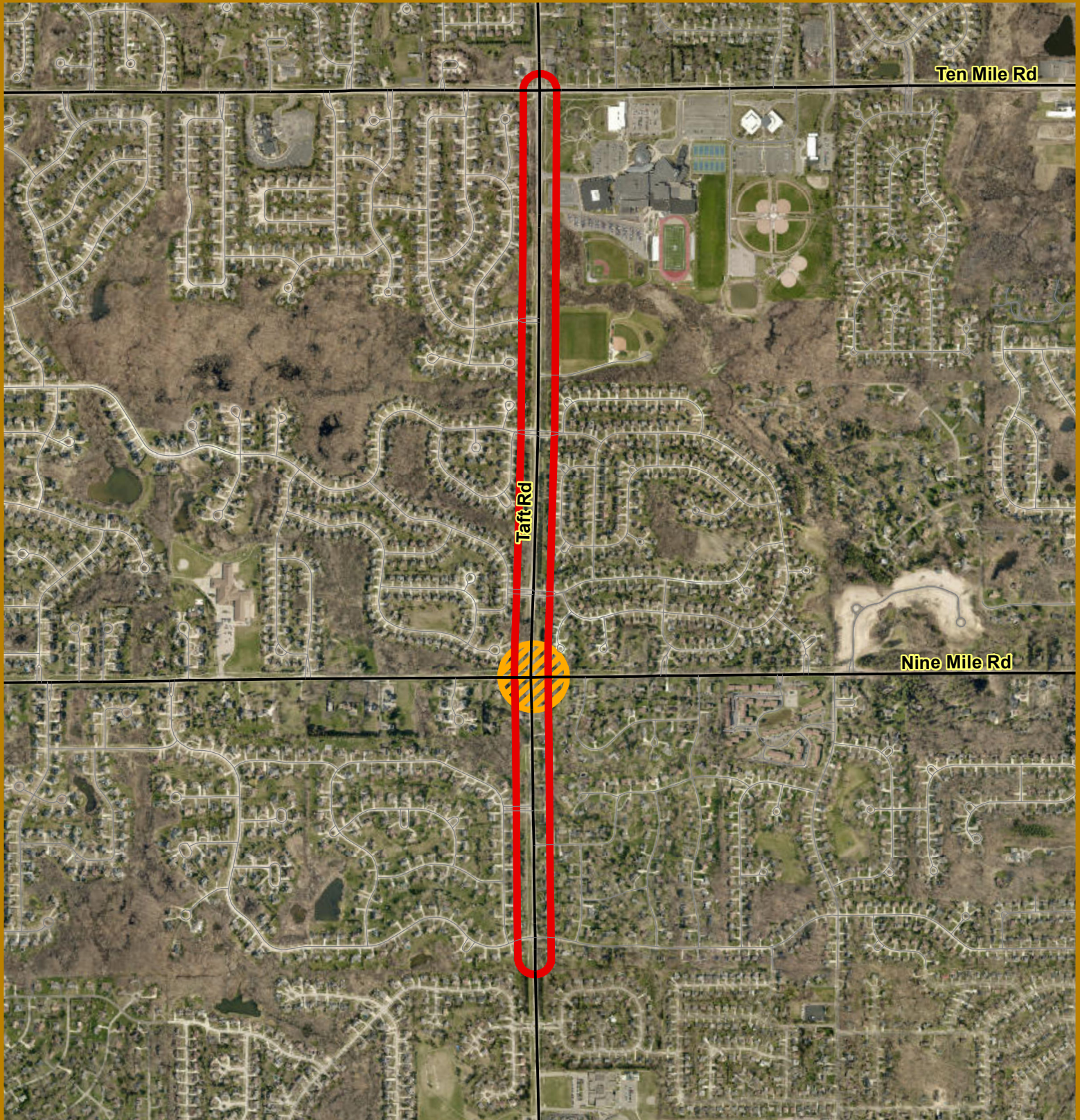
increased depth of asphalt milling to 5-6", which will provide a more substantial fix with longer service life. This pavement section is consistent with the most recent Taft Road project from 10 Mile to Grand River. The larger scale road project will end up costing the City more than what was originally budgeted in the CIP; however, staff secured an additional ~\$300K of federal funding, increasing the total FAC and HSIP share of the project to ~\$1.8M.

Staff will make recommendations to reprioritize existing road projects in fiscal years 2022 and 2023 to cover the increased cost participation resulting from the expanded project scope.

The attached design engineering services proposal outlines the detailed scope of services. The design fee for this project will be \$235,685.00 (6.75% of the estimated construction cost of \$3,491,618.00). OHM Advisor's engineering fees are based on the fixed fee schedule established in the Agreement for Professional Engineering Services for Public Projects. Design of this project would begin following award with construction expected to start in spring 2022.

RECOMMENDED ACTION: Approval to award engineering design services to OHM Advisors for Taft Road Rehabilitation, City Limits to Ten Mile Road, and Taft Road and Nine Mile Road Roundabout in the amount of \$235,685.00.

Taft Road Rehabilitation and 9 Mile Road Roundabout





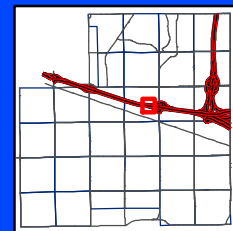
Map Author: Runkel
Date: 4/30/21
Project: Taft Rd/9 Mile RAB
Version #: 1.0

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

Project Name

-  Roundabout (Taft Road & 9 Mile Road)
-  Taft Road Rehabilitation (9 Mile South to City Limits)



City of Novi

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



0 250 500 1,000 1,500
Feet
1 inch = 1,193 feet



April 9, 2021

Mr. Jeffrey Herczeg
Director of Public Works
City of Novi - Department of Public Works
26300 Lee BeGole Drive
Novi, MI 48375

**RE: Scope of Design Services
Taft Road Rehabilitation**

Dear Mr. Herczeg:

Per your request, the following outlines our proposed scope of services and fee to perform design services to prepare plans and specifications for the above referenced project. This summary includes our project understanding, proposed scope of work, assumptions, schedule, and fee.

PROJECT UNDERSTANDING

The project will consist of rehabilitating Taft Road from the City Limit to 10 Mile Road. Existing asphalt pavement will be pulverized or removed to prepare for new asphalt pavement. Turn lanes will be reconstructed or added with similar asphalt pavement. Deteriorated curb and gutter will be replaced, shoulders will be rehabilitated, localized areas of base repair and subgrade undercutting will be completed, and drainage structures will be repaired over the entire project length. Additionally, pedestrian ramp upgrades will be performed at the side street intersections. In conjunction with the overall road work, the intersection of Taft Road and 9 Mile Road will be improved with construction of a single-lane roundabout. This portion of the project will include complete road reconstruction, grading, drainage improvements, lighting, and sidewalk.

In 2019, the City applied for and received approximately \$1.13 million in federal funds (STPU) to rehabilitate Taft Road in 2023. In 2020, the City applied for and received \$600,000 in federal safety funds (HSIP) to construct the roundabout at the Taft/9 Mile intersection in 2022. In February, the City asked to move the STPU funds ahead a year so that the entire project can be completed in 2022. It is our understanding that the City has budgeted matching road funds in 2022. The combined project is anticipated to cost approximately \$4.4 million.

The federal funding for the project must be administered through the Michigan Department of Transportation (MDOT) Local Agency Programs Unit. The City should be aware that the federal-aid process is much longer than a City-administered project, and typically requires a minimum of six months from the initial submittal to MDOT to the award of a construction contract. The plans for this project will be developed in accordance with MDOT guidelines such that the project could be administered through the MDOT LAP Unit. Additional project administration effort resulting from the federal aid process (program applications, NEPA, right-of-way certification, crash analysis, mobility analysis, GI meeting, etc.) have been included in this scope. Please note that the normal bidding services provided to the City will not be completed since this project will be going through the federal aid process in which the project would be bid through MDOT.



SCOPE OF SERVICES

The following outlines our work plan to accomplish the scope of services for this project as noted above:

- Organize and attend a kickoff meeting with City staff and utility companies to review project objectives, prepare design criteria, and establish a specific delivery schedule.
- Implement existing utility information and record drawings for the project area.
- Perform a site review to identify elements that are sensitive which includes pavement rehabilitation techniques, geometric deficiencies, drainage features, and utility facilities within the project area.
- Perform topographic survey of the project area and prepare existing conditions plans.
- Coordinate with the Geotechnical Engineer to develop typical pavement sections for the project.
- Develop horizontal and vertical alignments of the roadway and prepare typical cross-sections for the roadway.
- Prepare program applications, preliminary design plans, special provisions, and estimate.
- Attend MDOT Grade Inspection meeting with the City and utility companies to review the plans, specifications, and estimate to address any requested revisions.
- Prepare and submit permit plan packages for permit(s).
- Prepare a Maintenance of Traffic (MOT) plan. We anticipate the MOT plan will be developed in coordination with City staff and input from project stakeholders.
- Develop pavement marking and signing plans within the affected influence of the project in accordance with MMUTCD requirements.
- Prepare proposed preliminary schedule for work including the construction start, substantial completion, and final completion dates.
- Prepare final program applications, design plans, special provisions, and estimate.
- Address questions that may arise during the MDOT bidding process.

ASSUMPTIONS

The following summarizes our assumptions associated with this proposal:

- The City will acquire all property/right-of-way/easements need for the project in accordance with federal requirements. OHM will prepare legal descriptions/exhibits for proposed right-of-way and easements which is presumed to only be at the roundabout at this time.
- Geotechnical services are anticipated to be required for design and construction of this project but are not included in our scope of work. These services will be provided by the City's Geotechnical Consultant under a separate contract.
- Historical services are anticipated to be required for design of this project but are not included in our scope of work. These services will be provided by Commonwealth Heritage Group under a separate contract.
- The City will be responsible for all permit application fees and permit fees.
- We do not anticipate remediation or removal of contaminated or hazardous soils or materials.
- Development of plans for landscaping or ornamental features are not included.

SCHEDULE

The following outlines our anticipated schedule milestones of main tasks related to this work:

- 50% Submittal to City – August 2021
- GI Submittal to MDOT – October 2021
- Final Package Submittal to MDOT – December 2021
- MDOT Bid Letting – March 2022
- Begin Construction – April/May 2022



FEE

Based on the above outlined scope of services and assumptions, our proposed lump sum fee to perform this work is two hundred thirty-five thousand six hundred eighty-five dollars (\$235,685.00). Our fee derivation is based on the following breakdown:

	Construction Cost		Design Fee
Base Road Design	\$ 3,491,618.00	6.25%	\$218,227.00
MDOT LAP Administration	\$ 3,491,618.00	0.50%	\$ 17,458.00
Total			\$235,685.00

Thank you for the opportunity to be of service. If you have any questions or require additional information, please contact us. We look forward to working with you on this project.

Sincerely,

OHM Advisors

Authorization to Proceed

Timothy J. Juidici, P.E.
Principal-in-Charge

Signature

Date

Printed Name

Title

Encl: Project Cost Estimates

cc: Ben Croy, City Engineer
Alex Parent, OHM
File