



CITY of NOVI CITY COUNCIL
Agenda Item 3
August 26, 2019

SUBJECT: Consideration of Approval to award design engineering services to OHM Advisors associated with the Lee BeGole Drive Reconstruction project, in the amount of \$95,523.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 78,273.00 Major Road Fund \$ 17,250.00 Drain Fund \$ 95,523.00 Total
AMOUNT BUDGETED	\$ 1,068,910 Major Road Fund \$ 155,343 Drain Fund
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	202-202.00-865.183 Major Road Fund 210-211.00-865.149 Drain Fund

BACKGROUND INFORMATION: Lee BeGole Drive between 11 Mile Road and the new Gun Range approach is currently a dead-end, asphalt roadway in poor condition. The road segment also includes a failing culvert headwall, which serves the Bassett Drain. As part of the proposed road reconstruction project, the existing culvert beneath Lee BeGole Drive and south of the existing DPW Facility approach would be removed and replaced with a properly-sized, concrete box culvert. While the project is being designed for future development considerations, the new roadway will only be constructed to the driveway entrance at the Gun Range facility.

The new roadway will include the existing footprint of two (2) lanes of asphalt pavement with the design (only) including a third lane to be consistent with the existing Crescent Boulevard, which may eventually connect through to 11 Mile pending future development. The addition of the third lane would provide a center turn lane for safe ingress/egress for existing and future developments along the route. Concrete sidewalks are planned along the project for pedestrian accommodations. The east sidewalk will be included in this project and the west sidewalk would be included in each new development. A new 12-inch water main providing system redundancy will also be installed as part this project.

Staff successfully obtained a \$104,471 Local Road Improvement Program (LRIP) funding grant from the Oakland County Board of Commissioners to offset design and construction costs. The Cost Participation Agreement between the City and Oakland County for the LRIP funding was applied for as part of a larger project connecting Crescent Drive to 11 Mile and ultimately Grand River Avenue. Since the project scope has been reduced, Oakland County Board of Commissioners agreed to allow Novi to amend the original application and still receive the funding pending City Council approval of the revised project. An amended resolution and agreement would be brought to City Council at a future meeting for approval.

The attached *Design Engineering Services* proposal, as executed by OHM Advisors, outlines the scope of services in more detail. OHM Advisors' proposed total lump sum fee to perform this work is \$95,523. Their lump sum fee derivation is based upon the following breakdown:

- **Road Reconstruction Design** - Per the 2017-2022 Engineering Fee Table \$78,273.
- **Hydraulics/Wetland Permitting**– 150 hours at standard contract rate of \$115/hour - \$17,250.

The Engineering Division has reviewed the scope of services proposal and recommends approval. Design work will start in September 2019 with construction scheduled for 2020.

RECOMMENDED ACTION: Approval to award design engineering services to OHM Advisors associated with the Lee BeGole Drive Reconstruction project, in the amount of \$95,523.



SHEET	DATE	PROJ NUMBER	ENG	PROJ MGR	CADD	COUNTY	CITY/VILLAGE/TOWNSHIP	SCALE	HORIZ DATUM	VERT DATUM	REVISIONS:
1 OF 1	8/19/19	0165-19-0010	ARP	TJU	ARP	OAKLAND	CITY OF NOVI	H: 1"=60' V: N/A	NAD 83	NAVD 1988	
<p>CITY OF NOVI LEE BEGOLE DRIVE RECONSTRUCTION EXHIBIT</p>											





August 12, 2019

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
Lee BeGole Drive Reconstruction**

Dear Mr. Herczeg:

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

PROJECT UNDERSTANDING

The City of Novi had planned roadway improvements along Lee BeGole Drive due to the need to repair the roadway due to deteriorated pavement. The failing culvert headwall where Bishop Creek flows beneath the roadway was also to be replaced as part of the project. These are fixes that are necessary to provide suitable direct access to the DPW facility.

The new roadway will include two (2) lanes of asphalt pavement with the design understanding that developers shall construct the third lane to be consistent with the existing Crescent Boulevard that may eventually connect through to 11 Mile. The addition of the third lane provides a center turn lane for safe ingress/egress from existing and future developments along the route. Concrete sidewalks are planned along the project as well for pedestrian accommodations. The east sidewalk is to be included in this project and the west sidewalk is to be included in each new development. A new 12-inch water main will also be installed along the new roadway and beyond to connect existing Crescent Boulevard to the main DPW driveway on Lee BeGole.

The existing culvert beneath Lee BeGole will need to be extended and a new headwall constructed for the proposed road alignment. A detailed hydraulic analysis will be performed for these activities in order to coordinate with and obtain a permit from the Michigan Department of Environment, Great Lakes, & Energy (EGLE). A study of wetland impacts will also be required for permitting of the project through EGLE. Any significant wetland impact will require mitigation.



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 to review project objectives, prepare design criteria, and establish a specific delivery schedule.
- Review existing utility information and record drawings for the project area.
- Perform a site review to identify elements that are sensitive to project which includes driveway locations, access issues, geometric deficiencies, drainage features, wetlands, and utility facilities within the project area.
- Perform topographic survey of the project area and prepare existing conditions plans.
- Schedule and attend a pre-application meeting with EGLE and City to discuss culvert extension/headwall, channel realignment, and wetland impacts.
- Complete stream hydraulic analysis for creek channel work and culvert extension/headwall.
- Develop horizontal and vertical alignments of the roadway and prepare typical roadway cross-sections for the project.
- Attend one meeting with the City to review the existing conditions of the site to finalize proposed improvements.
- Prepare preliminary design plans and specifications with necessary details.
- Coordinate with the Geotechnical Engineer to develop typical pavement sections for the project.
- Prepare technical specifications and method of payment entailing materials, equipment, and labor necessary to perform the work.
- Compute preliminary quantities and prepare a preliminary Engineer's Opinion of Probable Construction Cost.
- Prepare and submit permit plan packages to EGLE for Inland Lakes and Streams/Floodplain and Wetland permits.
- Attend one meeting with the City to review the plans and specifications and address any requested revisions.
- Prepare technical specifications and method of payment entailing materials, equipment, and labor necessary to perform the work.
- Prepare and submit permit plan package to EGLE for water main extension permit.
- Prepare a bid sheet entailing items of work and associated quantities.
- 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.
- Assist the City with coordination of utilities found in the area that may have impacts during construction.
- Prepare proposed preliminary schedule for work including the construction start, substantial completion, and final completion dates.
- Prepare final design plans, specifications and bidding documents with details.
- If required, assist the City with advertising and soliciting bids, printing and distributing bidding documents to interested bidders, tabulate and review the bids, check contractor references and provide a recommendation of the award of the project construction to a qualified contractor.
- Prepare plans and documents required to obtain SESC Permit from the City.



ASSUMPTIONS

The following summarizes our assumptions associated with this proposal:

- The City will acquire all property/right-of-way required for the project and no additional property/easements will need to be acquired. There are no anticipated acquisitions at this time and OHM will prepare legal descriptions/exhibits should proposed right-of-way be acquired.
- Utility poles along the east side of Lee BeGole Drive are expected to be relocated as part of the project. The specifics on the relocations will be identified during the design, and the City will coordinate with DTE on necessary relocations.
- 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.
- The City will be responsible for all permit application fees and permit fees.
- Street lighting design is not included as it may be desired for the entire roadway. It is anticipated that new lighting will be implemented with DTE and the City through the community lighting program.
- 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% plans – September 27, 2019
- 100% plans – December 13, 2019
- Prepare Bid Recommendation for Council Award – End of 2019/Early 2020
- Begin Construction – Early 2020

FEE

Based on the above outlined scope of services and assumptions, our proposed lump sum fee to perform this work is ninety-five thousand five hundred twenty-three dollars (\$95,523.00). Our fee derivation is based on the following breakdown:

- Road Reconstruction design per the 2017-2022 Engineering Fee Table - \$78,273.00.
- Hydraulics/Wetland Permitting – 150 hours at standard contract rate of \$115/hour - \$17,250.00.



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

Encl: Project Cost Estimates

Printed Name Title

cc: Alex Parent, OHM
File