



**CITY OF NOVI CITY COUNCIL
SEPTEMBER 27, 2021**

SUBJECT: Consideration of approval to award engineering design services to Spalding DeDecker for the 2022 and 2023 Neighborhood Road Program (NRP) in the amount of \$275,000.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 137,500 NRP Design 2022 <u>\$ 137,500 NRP Design 2023</u> \$ 275,000 Total
AMOUNT BUDGETED	\$ 200,000 NRP Design 2022 <u>\$ 200,000 NRP Design 2023</u> \$ 400,000 Total
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	203-203.00-864.230 NRP Design 2022 203-203.00-864.240 NRP Design 2023

BACKGROUND INFORMATION:

Each year the City selects residential streets for reconstruction, repaving, repair, and/or rehabilitation based on Pavement Surface Evaluation and Ratings (PASER), staff's field observations, and residents' concerns. City Staff worked with engineering consultant, Spalding DeDecker to develop a list of potential streets for the 2022 and 2023 Neighborhood Road Program.

Staff plans on bidding the program (same as 2018/2019 and 2020/2021) as a two-year contract, which should reduce costs by locking in the unit prices and capitalizing on economies of scale. A two-year contract also lowers the overall effort of engineering services and allows for selection and prioritization of streets over multiple years. Specific streets and repair methods will be determined during this design phase.

The design award of \$275,000 is based upon a total construction cost estimate over two years of \$5.0 million, split between concrete and asphalt programs. The proposed work is a mix of reconstruction, reclamation, and rehabilitation, so a median fee percentage of

5.5% was selected from the fixed fee schedule established in the Agreement for Professional Engineering Services for Public Projects.

A public information meeting will be scheduled in the spring of 2022 to inform residents of the program that are directly affected. The attached Scope of Design Services prepared by Spalding DeDecker & Associates, Inc. provides more details on the scope of services.

Also included with this award is the services of a geotechnical consultant. Spalding DeDecker will require data on the existing pavement and subsurface types, cross sections and conditions in order to determine the proper replacement materials. Testing Engineers & Consultants, Inc. (TEC) has been chosen to obtain such pavement cores and soil boring information. Using the fee percentage from the Geotechnical Engineering Services for Public Projects based on the estimated construction value of \$5.0 million, the geotechnical design fee will be \$47,500.

RECOMMENDED ACTION: Consideration of approval to award engineering design services to Spalding DeDecker for the 2022 and 2023 Neighborhood Road Program (NRP) in the amount of \$275,000.



August 26, 2021

Mr. Aaron Staup
Construction Engineer
City of Novi
26300 Lee BeGole Drive
Novi, MI 48375

Re: Proposal for 2022-2023 Road Program Professional Engineering Services

Dear Mr. Staup:

Spalding DeDecker (SD) is pleased to present you with this proposal for engineering services. Based on our previous discussions, we understand that the intent of the project is to evaluate the road program candidates based on PASER ratings, field evaluation and other constraints; put together bid documentation for two years of both concrete and HMA road rehabilitations.

SCOPE OF SERVICES

PHASE 1 – PRELIMINARY INVESTIGATION AND PRIORITIZATION

The following are the major tasks associated with this phase:

- Utilize GIS to provide visual mapping of road program candidates as well as overlay potential water utility projects for consideration.
- Visit and walk each road program candidate and provide field notes for consideration via tablet data collectors integrated with GIS.
- Provide prioritization based on PASER ratings, City notes and our own field investigation.
- Meet with City staff to review and confirm prioritizations.
- Prepare color-coded maps to illustrate rankings for 2022 and 2023 HMA and Concrete roads

PHASE 2 – DATA GATHERING AND TOPOGRAPHIC SURVEY

The following are the major tasks associated with this phase:

- Provide aerial views of each roadway segment.
- Provide supplemental topographic survey, as necessary, to accommodate drainage and ADA ramp improvements.
- Coordinate with TEC for pavement core and soil boring locations.

- Map out existing owner/municipal and franchise utilities based on as-builts, MISS DIG requests and GIS. Investigate all existing manhole and catch basin structures for improvements necessary and relay findings as well as potential costs to the City for consideration.

Assumptions:

- Structure cleaning for access to investigation and/or invert information will be provided by the City.

PHASE 3 – CONSTRUCTION PLANS

The following construction plans and documentation will be provided for two separate programs, one for HMA road rehabilitation and the other concrete road rehabilitation:

- Cover Sheet
- Legend/Notes
- Details
- Typical Cross Sections
- Overall Quantity Sheet
- Modified Log Plan with Quantities
- Detail Grading Plan with ADA Ramps
- Maintenance of Traffic Plan
- City Standard Details
- Contract Documents
 - Front-end and detailed specifications
 - Bid book
 - Insurance, bonds, etc.
- Engineer’s estimate (preliminary, 70% and final)
- Attend up to 4 design review meetings as well as weekly conference calls and project update emails.
- Visit and walk the project sites after 70% plans.

SCHEDULE

Project Authorization	September 13, 2021
Field Investigations	September 14-October 1, 2021
Prioritization Review	October 4, 2021
Aerial Survey and Supplemental Topo Survey	October 5 – October 19, 2021
Base Plans	October 5 – November 5, 2021
Base Plan Review	November 8, 2021
70% Plans	November 8 – December 23, 2021

70% Plan Review	January 7, 2022
Final Plans	January 10 – February 18, 2022
Final Plan Review	February 21, 2022
Advertise Project	February 25, 2022
Bid Letting	March 18, 2022

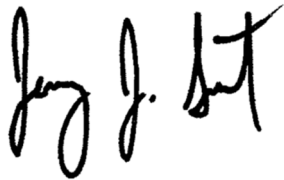
FEE

Based on the City provided budget of \$5,000,000 for 2022 and 2023 Road program construction, Spalding DeDecker will provide preliminary investigation, data gathering and construction plan phases at the 5.5% contract rate for road reclamation. If agreeable, SD will provide the above noted scope of services for an hourly not-to-exceed fee of \$275,000.00 utilizing our standard bill rates.

If you wish to discuss this proposal or require additional information, please feel free to contact me directly.

Sincerely,

Spalding DeDecker



Jeremy J. Schrot, PE
Vice President / Director of Public Engineering