



**CITY OF NOVI CITY COUNCIL
MARCH 14, 2022**

SUBJECT: Approval to award engineering design services to Spalding DeDecker for the paving of the gravel portion of 12 Mile Road between Medina Boulevard and the east City limits, and design of two sidewalk gaps on the south side of 12 Mile Road, in the amount of \$78,932.00.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 78,932.00
AMOUNT BUDGETED	\$ 109,290.00
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	203-203.00-865.230

BACKGROUND INFORMATION:

In 2007, City Council approved a jurisdiction transfer agreement between the Cities of Wixom and Novi that transferred jurisdiction, control, and maintenance responsibilities of the east/west leg of 12 Mile Road between Napier Road and the east City limits to Novi. Approximately 2,000 feet of 12 Mile Road is an unpaved, gravel road. Catholic Central High School, which is bordered by 12 Mile Road to the north, submitted site plans to Community Development for the construction of a connector road that would connect to 12 Mile Road. Catholic Central's plan also includes the paving of approximately 515 feet of 12 Mile Road. The site plan, JSP 21-0017 Catholic Central Connector Road, is under final site plan review.

The Engineering Division recommends that the City takes on the paving of 12 Mile Road since it is under City jurisdiction and so that the entire unpaved section can be completed at one time by a City-approved contractor. Staff is negotiating cost participation with Catholic Central for their required portion of the road (estimated \$180K) and will execute a final document when the project is bid out. City engineering consultant, Spalding DeDecker prepared a scope of services for design of 12 Mile Road and two sidewalk gaps on the south side of 12 Mile Road, east of Albert Street. The attached design engineering services proposal outlines the detailed scope of services. The design fee for this project will be \$78,932 (6.5% of the estimated construction cost of

\$1,214,330). Spalding DeDecker'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 August 2022.

RECOMMENDED ACTION: Approval to award engineering design services to Spalding DeDecker for the paving of the gravel portion of 12 Mile Road between Median Boulevard and the east City limits, and design of two sidewalk gaps on the south side of 12 Mile Road, in the amount of \$78,932.00.

12 Mile Road Paving and Sidewalk Gap Infill

Location Map



Map Author: Rebecca Runkel
 Date: 2/18/22
 Project: 12 Mile Rd Paving
 Version #: 1.0

MAP INTERPRETATION NOTICE

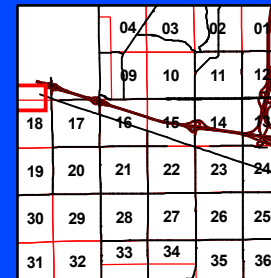
Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate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



Road Paving



Sidewalk Gap Infill



City of Novi

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



February 18, 2022

Mr. Ben Croy
City Engineer
City of Novi
26300 Lee Begole Drive
Novi, MI 48375

Re: 12 Mile Road Paving and Sidewalk Gaps – rev 1
Job No. PR20-090

Dear Mr. Croy:

Spalding DeDecker is very pleased to have this opportunity to present this proposal to provide engineering services for the design of road reconstruction of 12 Mile Road from Medina east to the City Limits and the design of two nearby sidewalk gaps on the south side of 12 Mile Road. The planned Catholic Central site improvements will front this proposed road section.

SCOPE OF WORK

Spalding DeDecker will generate detailed road and sidewalk engineering plans to be used for bidding and construction of the proposed improvements.

Our scope of services will include the following:

- Meet with City staff to finalize detailed scope of the project.
- Prepare a topographic survey of the area of improvements
- Prepare preliminary plans for review
- Apply for applicable permit approvals
- Prepare engineering plans and specifications for bidding and construction. The plans will include:
 - Cover Sheet
 - Notes and Details
 - Topographic Survey and Demolition Plan
 - Proposed road and sidewalk plan with Detailed Grading and Profiles
 - City Standard Details, as needed
- Assist with the bidding process
 - Publish bid documents to electronic plan rooms
 - Prepare bid tabulation
 - Make Recommendation for Award
- Conduct a pre-construction meeting
- Provide construction engineering services
- Provide construction inspection services

Construction Cost Estimate and Proposed Fees

Based on our pre-qualification status with the City, engineering fees are based on a percentage of the pre-design construction cost estimate. The fee percentage used depends on the type of services to be provided based on the proposed work.

FEE

Estimated Construction Cost Subtotal	\$1,214,330.00
Fee Percentage from Table in Engineering Agreement	6.5%
Calculated Fee for Design Services	\$78,932.00

Project Schedule

The following summarizes the anticipated schedule for the project:

Council Award	February 28, 2022
Topographic Survey	March 25, 2022
	April 22, 2022
90% Plans and Specifications	May 20, 2022
100% Bid Package and Advertising	June 7, 2022
Bid Opening	June 30, 2022
Construction Contract Award by Council	July 11, 2022
Construction Start, estimated	August 8, 2022
Construction Complete, estimated	September 30, 2022

Thank you for your selection of Spalding DeDecker to provide design services for the proposed road and sidewalk improvements. Please do not hesitate to contact me if you have any questions or comments regarding this submittal.

Sincerely,

SPALDING DEDECKER



Taylor E. Reynolds, PE
Public Engineering Project Coordinator

OPINION OF PROBABLE CONSTRUCTION COST

PROJECT NAME: 12 Mile Rd Paving, from Medina Blvd E to City Limits, with Sidewalks
CLIENT NAME: City of Novi
PREPARED BY: TER/JS

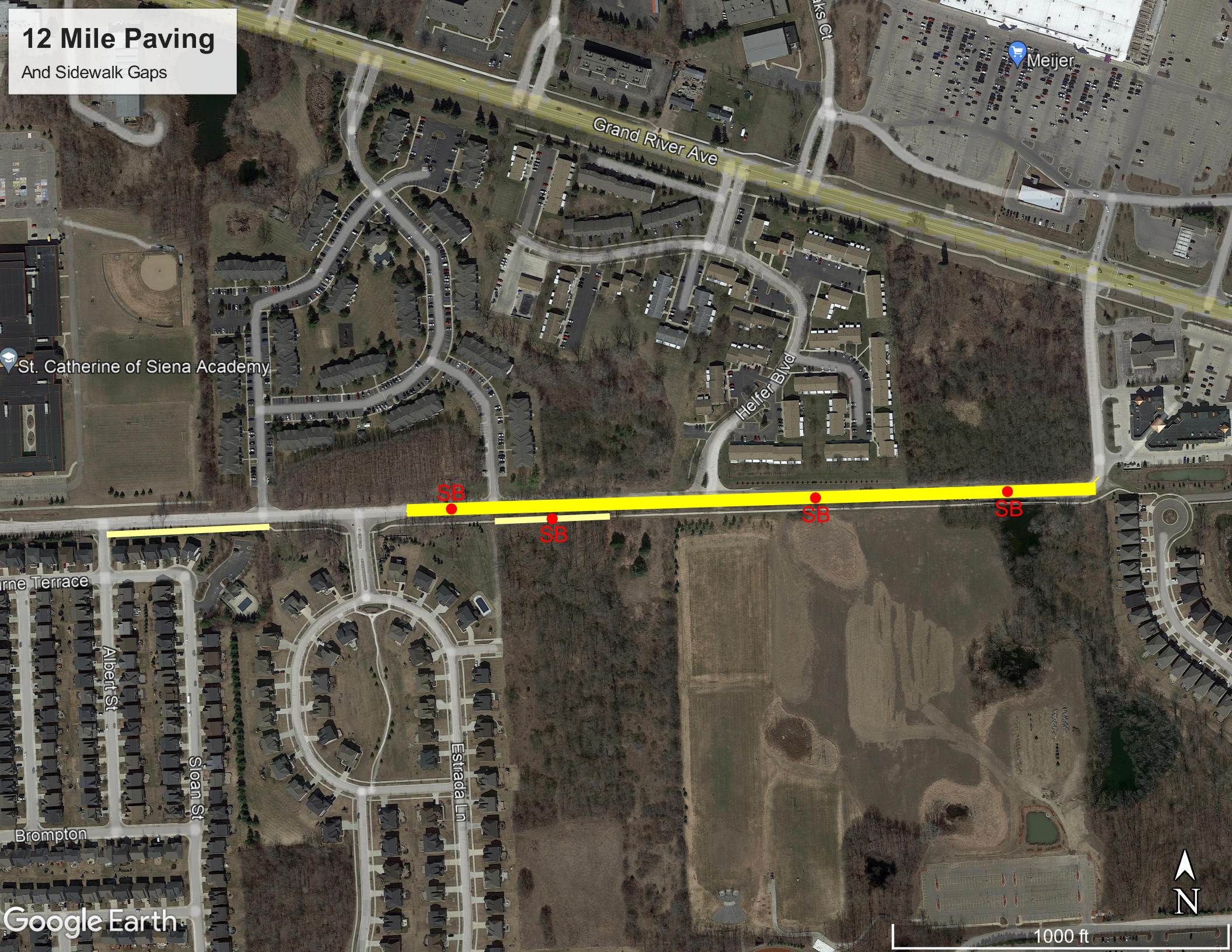
PROJECT NO: PR
DATE: 02/18/22

NO.	ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	Bonds, Insurance and Mobilization (10% Max)	1	LS	\$ 105,500.00	\$ 105,500.00
2	Pre-Construction Audio-Visual	1	LS	\$ 4,000.00	\$ 4,000.00
3	Soil Erosion Control Measures	1	LS	\$ 5,000.00	\$ 5,000.00
4	Maintaining Traffic	1	LS	\$ 80,000.00	\$ 80,000.00
5	Construction Protection Fencing - Orange	500	Ft	\$ 10.00	\$ 5,000.00
6	Excavation, Earth	3,000	Cyd	\$ 15.00	\$ 45,000.00
7	Subgrade Undercut (As Needed)	860	Cyd	\$ 60.00	\$ 51,600.00
8	Edge Drain, Trench Wrapped	4,000	LF	\$ 15.00	\$ 60,000.00
9	Dr Structure, 48 Inch	14	EA	\$ 4,800.00	\$ 67,200.00
10	Dr Structure, 24 Inch	7	EA	\$ 1,400.00	\$ 9,800.00
11	Str Casting	21	EA	\$ 750.00	\$ 15,750.00
12	Sewer, 12 Inch	1,400	LF	\$ 45.00	\$ 63,000.00
13	Aggregate Base, 8 inch, 12AA	7,672	Syd	\$ 20.00	\$ 153,440.00
14	HMA, 5EML	760	Ton	\$ 120.00	\$ 91,200.00
15	HMA, 4EML	1,900	Ton	\$ 115.00	\$ 218,500.00
16	Geogrid	6,271	Syd	\$ 5.00	\$ 31,355.00
17	Curb and Gutter, Conc, Det F4	3,945	Ft	\$ 25.00	\$ 98,625.00
18	Permit Allowance	1,000	Dlr	\$ 1.00	\$ 1,000.00
19	Permanent Pavement Markings & Signing	1	LS	\$ 4,000.00	\$ 4,000.00
20	Restoration	1	LS	\$ 10,000.00	\$ 10,000.00
ROAD SUBTOTAL					\$ 1,119,970.00
21	Bonds, Insurance and Mobilization (10% Max)	1	LS	\$ 9,500.00	\$ 9,500.00
22	Pre-Construction Audio-Visual	1	LS	\$ 1,000.00	\$ 1,000.00
23	Soil Erosion Control Measures	1	LS	\$ 2,500.00	\$ 2,500.00
24	Maintaining Traffic	1	LS	\$ 20,000.00	\$ 20,000.00
25	Tree Protection Fencing	1,780	LF	\$ 3.00	\$ 5,340.00
26	Tree, Rem, (6 Inch to 18 Inch), Complete	13	EA	\$ 500.00	\$ 6,500.00
27	Sidewalk, Rem	200	SF	\$ 2.50	\$ 500.00
28	Subgrade Undercut (As Needed)	70	Cyd	\$ 60.00	\$ 4,200.00
29	Pathway Grading	8	STA	\$ 1,000.00	\$ 8,000.00
30	Aggregate Base, 6 inch, Limestone	600	Syd	\$ 9.00	\$ 5,400.00
31	Sidewalk, Conc, 4 inch	4,920	SF	\$ 5.00	\$ 24,600.00
32	ADA Ramp, Conc, 6 Inch	60	SF	\$ 11.00	\$ 660.00
33	Detectable Warning	12	SF	\$ 55.00	\$ 660.00
34	Permit Allowance	500	Dlr	\$ 1.00	\$ 500.00
35	Restoration	1	LS	\$ 5,000.00	\$ 5,000.00
SIDEWALK SUBTOTAL					\$ 94,360.00
Estimated Construction Cost Subtotal					\$ 1,214,330.00
ENGINEERING FEES (6.50%):					\$ 78,932.00
ROW ACQUISITION (\$2700/PERMANENT EASEMENT):					\$ -
GEOTECHNICAL (2.5%):					\$ 30,359.00
DESIGN CONTINGENCY (20%):					\$ 21,859.00
CONSTRUCTION ADMINISTRATION (5.5%):					\$ 66,789.00
Crew Days: 45 DAYS @ \$ 700.00					\$ 31,500.00
CONSTRUCTION MATERIAL TESTING (2.5%):					\$ 30,359.00
CONSTRUCTION CONTINGENCY (10%):					\$ 134,298.00
OPINION OF PROBABLE CONSTRUCTION COST					\$ 1,608,426.00

In providing opinions of probable construction cost, the Client understands that the Consultant has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's method of pricing, and that the Consultant's opinions of probable construction costs are made on the basis of the Consultant's professional judgement and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the Work will not vary from the Consultant's opinion of probable construction cost.

12 Mile Paving

And Sidewalk Gaps



St. Catherine of Siena Academy

Meijer

Grand River Ave

Heifer Blvd

SB

SB

SB

SB

Terre Terrace

Albert St

Sloan St

Estrada Ln

Brompton

Google Earth



1000 ft