



CITY OF NOVI CITY COUNCIL
SEPTEMBER 13, 2021

SUBJECT: Consideration of approval for Change Order No. 3 to Mattioli Cement Company, LLC, to reconstruct a 530-foot section of Chase Drive, in the Chase Farms Subdivision as part of the 2021 Neighborhood Road Program – Concrete Streets contract, in the amount of \$123,483.80.

SUBMITTING DEPARTMENT: Department of Public Works, Engineering Division

EXPENDITURE REQUIRED	\$ 123,483.80
AMOUNT BUDGETED	\$ 1,445,000.00
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	203-203.00-864.221

BACKGROUND INFORMATION:

Over the last decade, the City has been systematically reconstructing streets throughout the Chase Farms Subdivision due to the accelerated deterioration of the original concrete. This acceleration is exacerbated by the process of a debilitating reaction in the concrete called ASR (Aluminum-Silicate Reaction). ASR or “concrete cancer” will, relatively speaking, liquify the upper quarter to a half inch of the concrete surface causing it to literally crumble. For unknown reasons, this reaction always seems to take place near the joints in the concrete and work its way towards the center of the panel(s). Once the reaction has begun, the PASER value of that street or segment can decrease down two levels in just six months.

One particular area within the Chase Farms Subdivision showing Stage 2 ASR deterioration is on Chase Drive, between Trent Court and Wheaton Lane (approximately 530-feet, see attached location map). Our Field Operations team has tried several methods to extend the life of this section of road, but has now reached the stage where they are unable to properly or safely maintain the concrete.

Since Mattioli Cement Company, LLC is already in town working on the Neighborhood Road Program (which includes this same removal and replacement process), we felt this is the best suitable contractor to complete the reconstructive work.

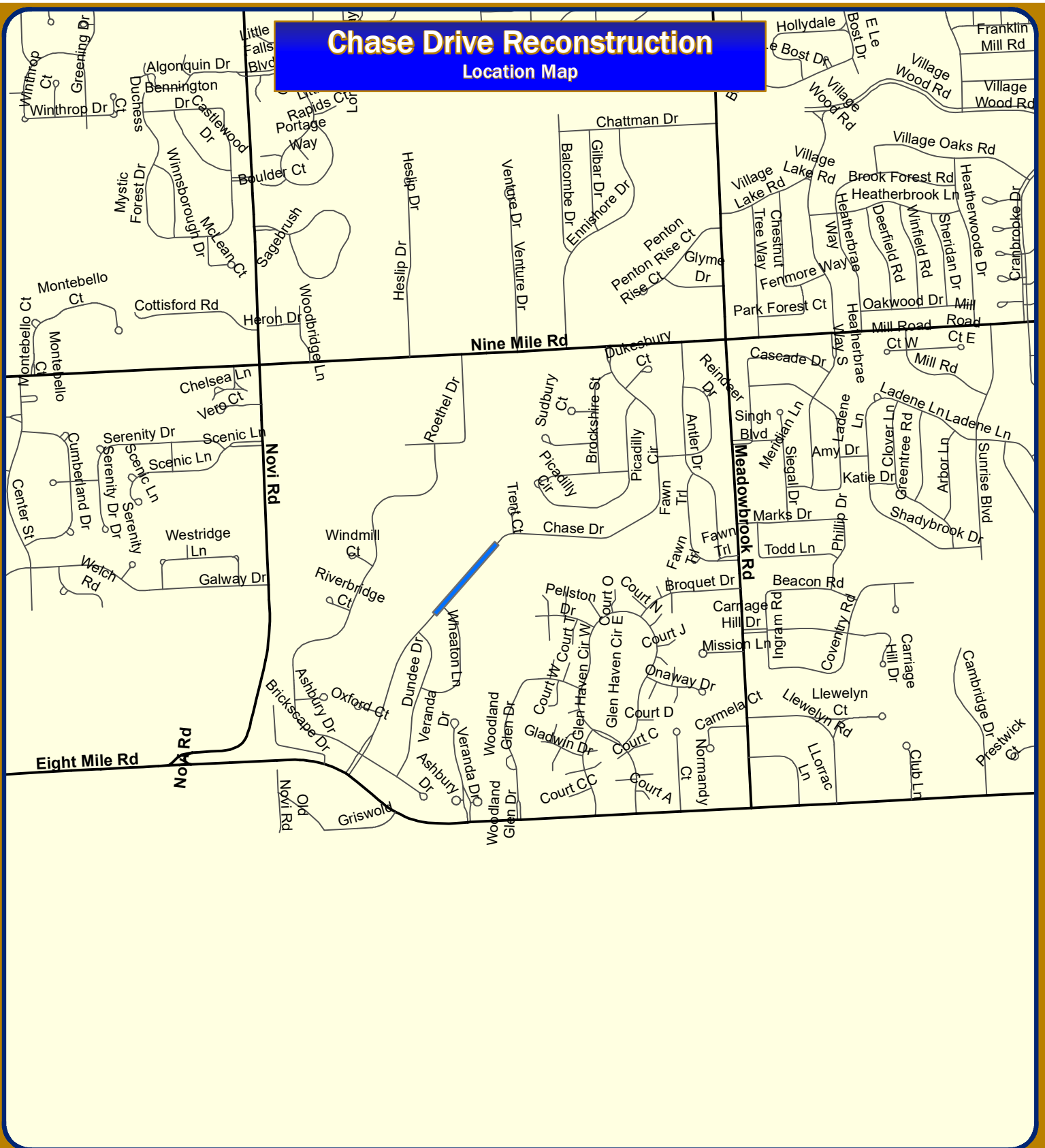
The contract administration and geotechnical engineering services related to this project change order will be granted to the following pre-qualified firms using the fee percentages in the Agreements for Professional Engineering Services and Geotechnical Engineering Services for Public Projects.

OHM-Advisors			
Chase Drive Reconstruction	Contract Administration	4.75% of the construction contract (\$123,483.80 x 4.75%)	\$ 5,865.48
	Crew Days	\$700 daily inspection fee x 10 days	\$ 7,000.00
Testing Engineers & Consultants, Inc. (TEC)			
Chase Drive Reconstruction	Material Testing Services	1.9% of the construction contract (\$123,483.80 x 1.9%)	\$ 2,346.19

RECOMMENDED ACTION: Approval of Change Order No. 3 to Mattioli Cement Company, LLC, to reconstruct a 530-foot section of Chase Drive, in the Chase Farms Subdivision as part of the 2021 Neighborhood Road Program – Concrete Streets contract, in the amount of \$123,483.80.

Chase Drive Reconstruction

Location Map



Map Author: Aaron J. Staup
 Date: September 7, 2021
 Project: 2021 NRP - Concrete Streets
 Version #: 1

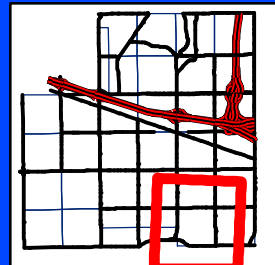
Amended By:
 Date:
 Department:

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.

Map Legend

- Freeway
- Major Streets
- Minor Streets



City of Novi

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1 inch = 1,471 feet



