

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.

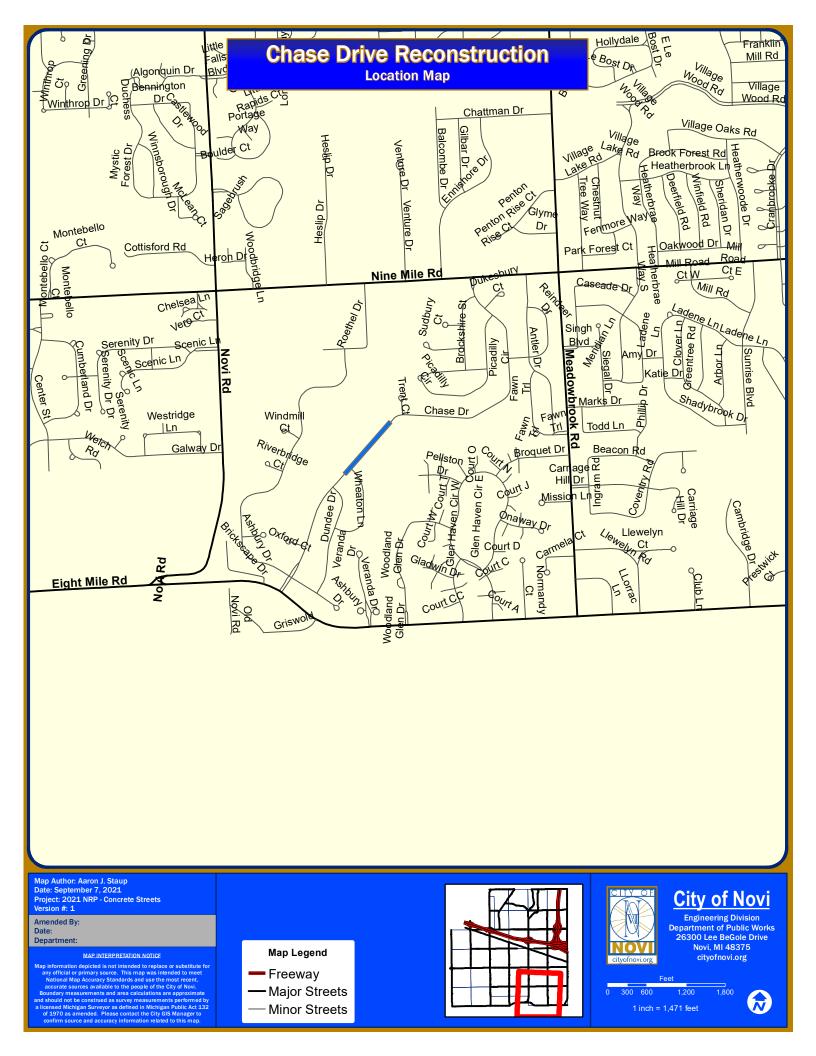
One particular area within the Chase Farms Subdivision showing Stage 2 ASR deterioration is on Chase Drive, between Trent Court and Wheaton Lane (approximately 530-feet, see attached location map). Our Field Operations team has tried several methods to extend the life of this section of road, but has 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					
Reconstruction	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.





WORK CHANGE DIRECTIVE & CHANGE ORDER No. ____3

PURCHASE ORDER NO.

NOVI	NO.:	21-2102
CID	NO .	402 04

		96544	CIP NO.: 102-01
Project:	2021 NRP - Concrete Streets		
Owner:	City of Novi 26300 Lee BeGole Dr. Novi, Michigan 48375 (248) 735-5632	Engineer:	OHM Advisors 34000 Plymouth Road Livonia, Michigan 48150 (734) 522-6711
Contractor:	Mattioli Cement Co., LLC 6085 McGuire Road Fenton, Michigan 48430 (313) 215-1001	Time and chang balancing indivi	nereby renders changes in the Work, changes in the Contract es in the Contract Price by adding, deducting and/or dual Contract line items through a signed authorization of the or, Owner, and Engineer.
Drafted Date:	September 3, 2021		
Reasoning:	Increase quantities for for Chase Drive repairs between Whea	aton Drive and Trent Court.	

EXISTING CONTRACT ITEMS

	1	<u> </u>	EXISTING CONTRAC	l III		Contract Price	
Item No.	Division	Item Description	<u>Unit</u>	Unit Price	Quantity	Add	Deduct
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				ļ	Subtotals	\$0.00	\$0.00 \$0.0 0
					Total	i	\$0.00

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		<u> </u>	NEW CONTRACT I	TEMS			
Item No.	Division 1	Item Description Pavt, Remove, Modified	Unit SYD	Unit Price \$10.00	Quantity 1714.2	Add \$17,142.00	Price <u>Deduct</u>
10		Aggregate Base, 8-inch, Modified	SYD	\$10.00	1714.2	\$17,142.00	
16	1	Underdrain, Subgrade, Nonreinf, 8"	LFT	\$12.50	1102	\$13,775.00	
17	1	Conc Pavt w/Integral Curb, N-R, 8"	SYD	\$44.00	1714.2	\$75,424.80	
	- '-	Conc Pavi Williegral Curb, N-K, 6	310	\$44.00	1714.2	\$15,424.60	
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					Subtotals	\$123,483.80	\$0.00
				-	Total	\$123,463.60	\$123,483.80
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