CITY OF NOVI CITY COUNCIL JULY 11, 2022



SUBJECT: Consideration of Approval of Change Order No. 1 to Asphalt Specialists, Inc. for the 2022 Neighborhood Road Program – Asphalt Streets in the amount of

\$250,972.44.

SUBMITTING DEPARTMENT: Department of Public Works – Engineering Division

EXPENDITURE REQUIRED	\$ 250,972.44
AMOUNT BUDGETED	\$ 362,541.00 FY 2021-22 BA Rollover \$ <u>1,537,223.00</u> FY 2022-23 Budget \$ 1,899,764.00 Total
APPROPRIATION REQUIRED	\$ 0
LINE ITEM NUMBER	203-203.00-864.233

BACKGROUND INFORMATION:

Spalding DeDecker and Testing Engineers & Consultants assisted the Engineering Division with developing a list of potential streets for the 2022 and 2023 Neighborhood Road Program (NRP). The program was divided into two contracts, concrete and asphalt roads. The programs were also advertised for a two-year contract to secure unit prices and lower the overall costs of bidding and design.

Christina Lane, located on the north side of 10 Mile Road, across from the Police Headquarters' entrance, (map included) is one street in the 2022 NRP – Asphalt program. Pre-construction geotechnical borings of the road's subbase and pavement cores of the existing asphalt indicated a hefty cross section of 8 to 11 inches thick of existing asphalt over a stable clay subbase. The fix proposed based on this information was to remove and replace individual, discrete portions of concrete curb and gutter; mill off 3-inches of existing asphalt surface; and replace with 3-inches of new asphalt.

Approximately 500 lineal feet of existing concrete curb and gutter was replaced on Christina Lane as planned. Immediately following the 3-inch mill of the asphalt surface, the remainder of the existing asphalt began to buckle, break apart, heave, and sink into the moist clay subgrade of the road. Due to the friable nature of the lower lifts, the existing asphalt, although sufficiently thick, was unable to bridge the subsoil below (pictures

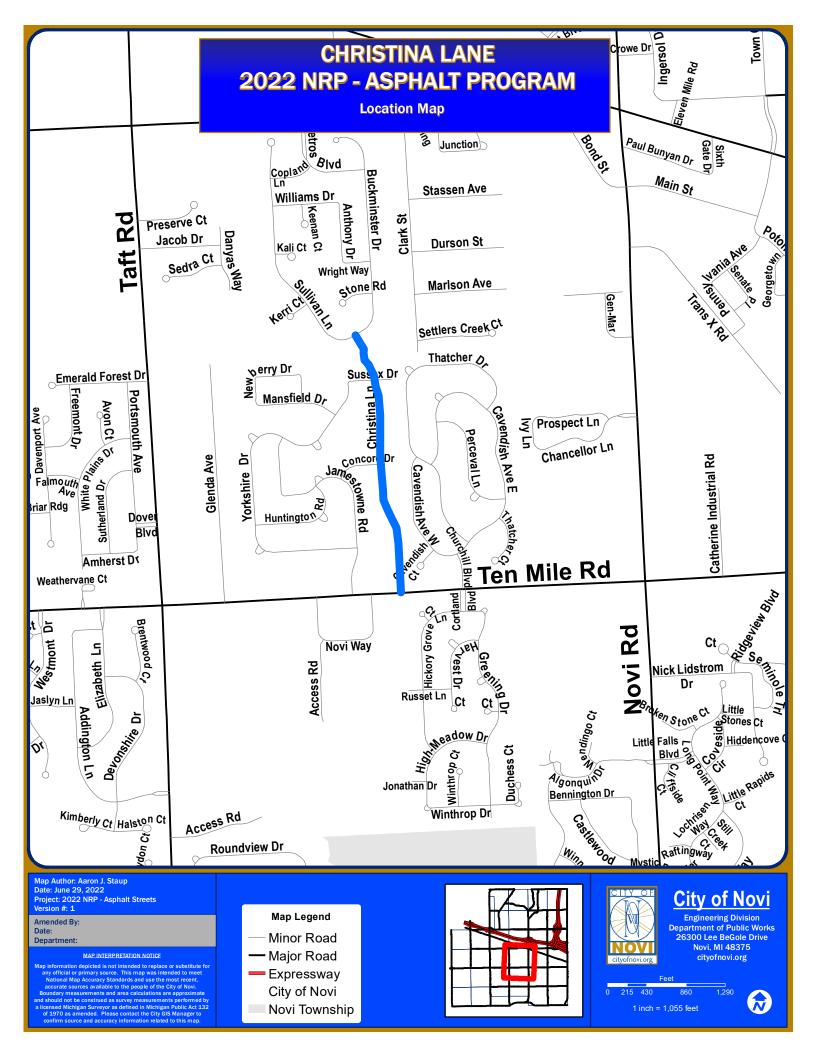
included). After a complete evaluation or proof rolling of Christina Lane, approximately 40% is in a condition that warrants some form of full reconstructive effort. Several areas throughout the roadway began to rut to the point where residents' vehicles began to bottom out, causing damage their undercarriage. For that reason, the roadway was closed to through traffic. Due to the urgent nature of the issue, the contractor was approved to proceed with the corrective actions as laid out in the paragraph below.

City personnel along with several geotechnical and civil engineers met with the contractor to come up with solid fixes for each of the problem areas. A couple areas will need to be completely undercut and the roadway re-built from the bottom up. A couple other areas (not as bad) will be treated with a cement stabilizer, pulverized, compacted, and repaved.

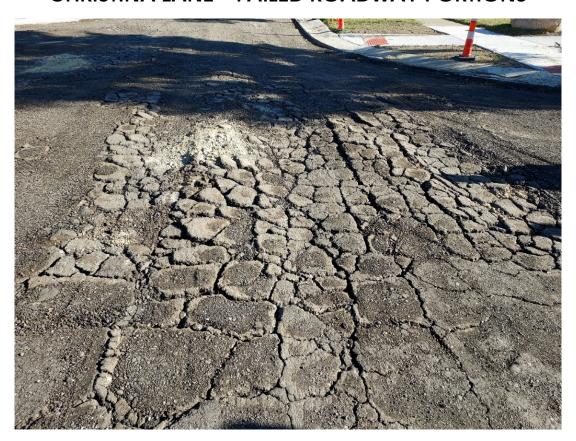
The contract administration and geotechnical engineering services related to these project additions will be granted to the following pre-qualified firms using the fee percentages in the Agreements for Professional Engineering Services and Geotechnical Engineering Services for Public Projects.

Spalding DeDecker							
Christina Lane Revised Cross	Contract Administration						
Section	Crew Days	\$700 daily inspection fee x 8 days	\$ 5,600.00				
Testing Engineers & Consultants, Inc. (TEC)							
Christina Lane Revised Cross Section Material testing services		1.9% of the Change Order value (\$250,972.44 X 0.03)	\$ 4,768.48				

RECOMMENDED ACTION: Approval of Change Order No. 1 to Asphalt Specialists, Inc. for the 2022 Neighborhood Road Program – Asphalt Streets in the amount of \$250,972.44.



CHRISTINA LANE – FAILED ROADWAY PORTIONS



Northbound lane of Christina Lane, near Sussex Drive



Southbound lane of Christina Lane, near Sussex Drive



Looking east to west across Christina Lane, near Sussex Drive



WORK CHANGE DIRECTIVE & CHANGE ORDER No.

1

PURCHASE ORDER NO. 97003 NOVI NO.: 22-2101 CIP NO.: 102-01

2022 Neighborhood Road Program - Asphalt Streets Project: Owner: City of Novi Engineer: Spalding DeDecker 26300 Lee BeGole Dr. Novi, Michigan 48375 905 South Boulevard East Rochester, Michigan 48037 (248) 735-5632 (248) 844-5400 Asphalt Specialists, Inc. (ASI) 1780 E. Highwood Street This document hereby renders changes in the Work, changes in the Contract Time and changes in the Contract Price by adding, deducting and/or balancing individual Contract line items through a signed authorization of the Contractor: Pontiac, Michigan 48340 (248) 334-4570 Prime Contractor, Owner, and Engineer. **Drafted Date:** June 27, 2022 Christina Lane was in worse shape after being milled than anticipated. Reasoning:

EXISTING CONTRACT ITEMS

2 large areas at the North and South end are proposed to have pavement removal, a 1' undercut filled with 1x3, 4" agg base, and 5.5" HMA. 2 areas that aren't quite as bad toward the middle are proposed to have pavement removal, geogrid, 8" agg base, and 5.5" HMA.

	т—	EXI	EXISTING CONTRACTITEMS			Contract Price	
Item No.	Division 1	Item Description "Crew Days" - Base Bid	<u>Unit</u>	<u>Unit Price</u> \$700.00	Quantity 8	Add	Deduct
Ö	2	"Crew Days" -	CD	\$700.00	CHICAGO STATE OF THE STATE OF T		
0	3	"Crew Days" -	CD	\$700.00			
0	4	"Crew Days" -	CD	\$700.00	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
0	5	"Crew Days" - "Crew Days" -	CD	\$700.00	THE PERSON NAMED IN		
8	1	HMA Surface, Remove, Modified	SY	\$12.00	5644	\$67 728 00	AND ASSESSMENT OF THE PARTY OF THE
19	1 1	Agg Base, 8-inch, Limestone	SY	\$10.00	3422	\$67,728.00 \$34,220.00	
21	+ +	HMA, 4EML	TON	\$105.00		934,220.00	
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					Subtotals Total	\$168,098.00	\$0 \$168,098

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NEW CONTRACT ITEMS								
Item No.	Division 1	Item Description Agg Base, 4-inch, Limestone	<u>Unit</u> SY	Unit Price \$7.25	Quantity 2222	Add \$16,109.50	ct Price <u>De duct</u>	
31	1	GeoGrid	SY	\$3.27	3422	\$11,189.94		
32	1	Subgrade Undercut (As-Needed) 1x3	CY	\$75.00	741	\$55,575.00		
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				ŀ	Subtotals Total	\$82,874.44	\$0.00 \$82,874.44	
Increase/Decrea							\$250,972.44 \$1,419,867.50	
Sum of Previous	Approve	d Change Orders					\$0.00	
Revised Contrac	t Amount						\$1,670,839.94	
THE C	CHANGES	ADDRESSED BY THIS CHANGE ORDER HEREB	Y ADJUSTS THE	CONTRACT TIME	BY:			
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			Asphalt	Specialists, Inc. (ASI)				
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Pren	ared Bv:							
. 70	Prepared By:Spalding DeDecker							
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Kevi	ewea By: _		Aaron J. Sta	up, Construction Engine	er			
Appr	Approved By:							
	acey marzonie, rurciusing manager							
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