



Engineering & Public Works Department

SUBJECT: 2020 Asphalt Patching Program

MEETING DATE: March 10, 2020

FROM: [Brigitte Berger-Raish](#), P.E. Director of Engineering and Public Works
[Dan Manis](#), P.E., Village Engineer
[Ryan Kearney](#), P.E., Project Manager

BUDGET IMPACT:	Contract Cost:	\$162,925
	Budget:	\$162,925
	Over/(Under) Budget	\$0

Recommended Motion

Move to approve a contract in an amount not-to-exceed \$162,925 with Chicagoland Paving Contractors, Inc., of Lake Zurich, IL, for the 2020 Asphalt Patching Program.

Background

In 2019, the Village Board increased funding in the preventative maintenance program to conduct non-utility pavement patching work in addition to the annual MFT Road Program. The patching is intended to help extend the service life of the pavement surface until the entire street requires asphalt resurfacing or reconstruction.

The scope of work for this program consists of grinding and asphalt patching sections of roadway that have deteriorated and cannot be adequately repaired with asphalt pothole filling. The chart below displays the amount of area patched by this program since 2015:

Asphalt Patching Program History					
Item	2015[^]	2016[^]	2017[^]	2018[^]	2019
Pavement Area (in Square Yards)	0	0	2,545	7,046	10,959

[^]-No dedicated budget allocation for asphalt patching; patching accomplished with unspent funds as part of the Road Program contract.

The anticipated area of non-utility asphalt patching in 2020 is about 5,075 square yards.

Starting in 2020, this contract will also include asphalt driveway apron and pavement surface repairs due to utility work completed by in-house water and sewer crews. When the utility

repairs are completed, the area on the surface disturbed by the work is temporarily patched by the crews until permanent pavement repairs can be made with this contract. The anticipated area of utility asphalt patching in 2020 is about 1,000 square yards.

Discussion

In 2018, the Village of Glencoe led a Municipal Partnering Initiative (MPI) bid with four other municipalities for asphalt patching services. The MPI allows area communities to collectively bid on similar work to take advantage of economies of scale. The other communities participating on the 2018 bid were Golf, Niles, Rolling Meadows, and Wheeling. In 2019, Chicagoland Paving Contractors agreed to a contract honoring the same pricing from the 2018 MPI bid.

For 2020, Chicagoland Paving agreed to a contract extension holding the 2018 pricing (Attachment 1). Chicagoland Paving has performed well for the Village on past projects, including the asphalt patching program in 2019, the utility patching programs in 2017 and 2018, the Panera parking lot resurfacing project in 2016, and the road program in 2014. For these reasons, the Engineering and Public Works Department recommends awarding the 2020 Asphalt Patching Program to Chicagoland Paving Contractors.

The 2020 Asphalt Patching Program will be constructed in two stages. The contractor will mobilize once in the spring and again in the fall.

Budget Impact

The 2020 Asphalt Patching Program is allocated to various accounts within the general, water, and sewer funds. Work associated with this contract are a component of the below accounts and are within the FY 2020 budget.

Description	2020 Budget	Contract Amount	Account Number
General Fund – Street Patching	\$92,000	\$92,000	11202035-425205
Sewer Fund – Contractual Services	\$100,200	\$35,425	40807090-421000
Water Fund – Contractual Services	\$120,800	\$35,500	41838090-421000
Total	\$313,000	\$162,925	

Balances in the sewer fund and water fund patching accounts will be used for brick and concrete pavement restoration as part of other Village contracts.

Documents Attached

1. MPI Extension Letter dated January 27, 2020
2. CIP Detail Sheets
3. Signed Contract Extension

Chicagoland Paving Contractors, Inc.

225 Telser Road, Lake Zurich, IL 60047
847-550-9681 / office@chicagolandpaving.com

January 27, 2020

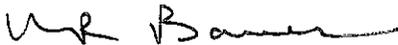
Daniel Manis, PE
Ryan Kearney, PE
Engineering & Public Works
Village of Wilmette
1200 Wilmette Ave.
Wilmette, IL 60091

Re: MPI Paving Contract
2020 MPI Patching Contract

Dear Mr. Manis & Mr. Kearney:

Upon mutual agreement between the Village of Wilmette and Chicagoland Paving Contractors, the attached pricing from 2018, will be extended through the 2020 Paving Season.

Sincerely,



William R. Bowes
Vice President

MPI Patching

18-177

Item #	Items	Unit	Quantity	Unit Price	Total
1	(N50) CLASS D PATCHES, TYPE 1, 2, 3, 4 - 2"	SY	3150	\$ 18.00	\$ 56,700.00
2	(N50) CLASS D PATCHES, TYPE 1, 2, 3, 4 - 4"	SY	1600	\$ 32.65	\$ 52,240.00
3	(N50) CLASS D PATCHES, TYPE 1, 2, 3, 4 - FULL DEPTH	SY	150	\$ 100.00	\$ 15,000.00
4	(N70) CLASS D PATCHES, TYPE 1, 2, 3, 4 - 2"	SY	0		\$ -
5	(N70) CLASS D PATCHES, TYPE 1, 2, 3, 4 - 4"	SY	0		\$ -
6	(N70) CLASS D PATCHES, TYPE 1, 2, 3, 4 - FULL DEPTH	SY	0		\$ -
7	DRIVEWAY APRON REMOVAL & REPLACEMENT	SY	40	\$ 25.00	\$ 1,000.00
				TOTAL	\$ 124,940.00

Pavement Maintenance Program	2020 \$135,600	Operating
Streets, Sidewalks, and Alleys	2021 \$139,800	
	2022 \$144,000	
	2023 \$148,300	
	2024 \$152,700	

- X Critical
 - Recommended
 - Contingent on Funding
-

Original Purchase Date & Cost
N/A

Funding History

See projects below for details.

Project Description & Justification

The purpose of this program is to extend the service life of pavement surfaces on streets owned and maintained by the Village prior to resurfacing or replacement. This program includes pavement surface rejuvenation, crack sealing, and pavement area patching (non-utility).

Overall Budget

Year	Pavement Surface Rejuvenation	Pavement Patching	Crack Sealing	Budget Total
2020	\$18,600	\$92,000	\$25,000	\$135,600
2021	\$19,200	\$94,800	\$25,800	\$139,800
2022	\$19,800	\$97,600	\$26,600	\$144,000
2023	\$20,400	\$100,500	\$27,400	\$148,300
2024	\$21,000	\$103,500	\$28,200	\$152,700

Pavement Surface Rejuvenation

Funding History

2019 \$16,900¹ Operating
 2018 \$7,600² Operating
 2017 \$6,000² Operating

¹ = Not constructed at time of budget preparation.

² = Test programs in 2017 and 2018.

Project Description & Justification

Surface rejuvenation is the first stage of the pavement maintenance program. The purpose of the surface rejuvenator, Reclamite, is to restore the flexibility of asphalt pavement that is lost to oxidation. This product will help decrease the deterioration rate of asphalt surfaces, which will reduce or delay the need for more expensive surface treatments, such as crack sealing and area patching. The application period for this product is typically 1 to 2 years after paving asphalt, but Reclamite can also be applied to older pavements showing light hairline cracking, light raveling, segregation, light pitting, and dryness.

A pilot program was initiated in 2017 to test the Reclamite on Village streets. The product was applied to some blocks, while other blocks were left to serve as the control group. While it is still too early in the pavement life cycle to notice a substantial difference in deterioration, there are multiple neighboring municipalities and counties that have implemented this program with evident success. The 2019 project represented an incremental approach to an overall pavement management strategy. Going forward, the primary locations for this project will focus on streets resurfaced or reconstructed through the Road Program or other Village Improvement Projects during the previous year.



Crack Sealing

Funding History

2019	\$42,400 ¹	Operating
2018	\$41,200	Operating
2017	\$40,000	Operating
2016	\$40,000	Operating
2015	\$10,000	Dedicated Revenues
2014	\$10,000	Dedicated Revenues
2013	\$10,000	Dedicated Revenues

¹ = Not constructed at time of budget preparation.



Project Description & Justification

Crack sealing is the second stage of the pavement maintenance program. The purpose of this project is to seal cracks that have developed or expanded on surface of asphalt-paved streets. The goal of this product is to prevent moisture from reaching the base and increasing the rate of pavement degradation.

As of 2018, current funding levels have allowed the Department to seal approximately 0.5 to 1 miles of streets annually, depending on the amount of cracks present. The project focuses on Village streets with 3 to 5-year-old asphalt pavement for the first application of sealant. Engineering staff will then identify streets with 5 to 7-year-old pavement for a second sealing. Pavements that show signs of excessive cracking are excluded from this process because crack sealing is no longer effective.

Pavement Patching (non-utility)

Funding History

2019 \$200,000¹ Operating

¹ Not constructed at time of budget preparation.

Project Description & Justification

Pavement patching is the third stage of the pavement maintenance program. The purpose of this project is to patch localized areas of deterioration in the pavement, on non-brick streets, with hot-mix asphalt or concrete. This work is separate from the program that patches streets due to water main and sewer emergency repairs by the Department.

Throughout the year, crews from the Department will fill potholes, and other failures in the pavement surface, with cold-mix asphalt. While this repair method will immediately eliminate the pavement surface hazards, the cold-mix material only provides a temporary fix. It is not uncommon for crews to refill potholes on an annual or less basis. By utilizing hot-mix asphalt and concrete, these long-term repairs will help extend the service life of the pavement and improve the overall condition of the street or alley.

The patching locations for this project are based on severity and are determined from: pothole locations filled by the Department, incident management complaints regarding pavement condition, and from routine roadway and alley inventory inspections.

In 2019, the Board approved additional budget for this project to account for the substantial increase in pavement failures caused in part by the extreme frigid winter temperatures. The 2020 funding amount is anticipated to complete up to 2,900 SY of 2-inch asphalt patching, depending on the amount of required base repairs.

Project Update

Five year costs have been updated to reflect an annual inflation factor of 3%.

Project Alternative

The alternative to pavement maintenance is doing nothing and waiting for the pavement surface to deteriorate to the point where the street will require resurfacing or reconstruction. However, once the roadway base is impacted from lack of maintenance, the road has to be reconstructed typically between three to four times the costs of resurfacing. These maintenance projects can slow down the decline of the overall pavement condition and improves ride quality.

Operating Budget Impact

Is this purchase *routine* X or *non-routine*?

NON-ROUTINE	
Maintenance Costs:	No additional costs – pavements will continue to be maintained
Personnel Costs:	No additional cost – the Village currently maintains pavements as deficiencies arise
Training Costs:	None



**VILLAGE OF WILMETTE
1200 Wilmette Ave
Wilmette, IL 60091**

Contract Extension No. 19079-01

For:

**2020 Asphalt Patching
Contract Extension No. 01 for Contract No. 19079**

With:

**Chicagoland Paving Contractors, Inc.
225 Telser Road
Lake Zurich, IL 60047**

Note: This cover sheet is an integral part of the Agreement, as are all of the following documents, and are a part of the Agreement as executed between the Village of Wilmette and Chicagoland Paving Contractors, Inc., Inc. Do not detach any portion of this document. Invalidation could result.

1. This Contract Extension is made by the Village of Wilmette ("Village") and Chicagoland Paving Contractors, Inc. ("Contractor"), Parties to Contract No. 19079 – 2019 Asphalt Patching ("Agreement").

2. For and in consideration of up to \$162,925.00 and other good and valuable consideration, the sufficiency of which is hereby acknowledged, the Village and Contractor hereto agree to:

- a. Extend the above referenced Contract's unit prices through December 31, 2020.
- b. Stage One (1) of the work is expected to start on or about May 18, 2020 and be completed within twenty (20) working days .
- c. State Two (2) of the work is expected to start on or about September 14, 2020 and be completed within twenty (20) working days.
- d. Provide the Village with Performance and Payment bonds for the contract extension amount.

This Contract Extension is not a guarantee that the Village will request services for the total Contract Extension amount.

3. This Contract Extension No. 01 is incorporated into the Agreement and shall not be effective unless this Contract Extension is also executed by the Parties.

4. Except as set forth in this Contract Extension, the Agreement is unaffected and shall continue in full force and effect in accordance with its terms. If there is conflict between this Contract Extension and the Agreement or any earlier amendment, the terms of this Contract Extension will prevail.

5. The Contract Extension shall be binding on the parties and effective only as of the date fully executed by both parties.

IN WITNESS WHEREOF, the Village of Wilmette, Illinois by Robert T. Bielinski, Village President, and the Contractor have hereunto set their hands to this Contract Extension on the ____ day of _____, 2020.

THE VILLAGE OF WILMETTE, ILLINOIS

Accepted this ____ day of _____, 2020

Robert T. Bielinski, Village President

Attest: _____
Michael N. Braiman, Village Clerk

FOR THE CORPORATION

An officer duly authorized by the corporation shall sign here:

Accepted this 2 day of March, 2020

Wt Baw
By (signature)

V.P.
Position/Title

William R. Bowes
Print Name

chicagoland Paving Contractors
Print Company Name

END OF DOCUMENT