

MEMORANDUM

To: Gregory Jackson, Village Manager
Village of Long Grove

Fr: Geoffrey L. Perry, P.E., Village Engineer

Date: January 19, 2022

Re: 2022 Road Maintenance Program
Proposed Road List and Preliminary Cost Estimate
Village of Long Grove

In preparation for the Village's 2022 Road Program, we have reviewed the Village's Pavement Condition Study (PCS) and the 5-Year Capital Improvement Plan (CIP) to prepare a preliminary Road List. We are proposing a base program that includes the resurfacing of Oak Grove Drive and Oak Grove Circle in the Village's 2022 Road Program. These roads were last repaved in 2001.

We have also reviewed options to extend the road program, should the Village's budget allow. We are recommending a bid alternate that includes the resurfacing of Chickamauga Lane and Robert Parker Coffin Road, from the Archer Parking Lot entrance to Route 83. Chickamauga Lane was last repaved in 2001; this section of Robert Parker Coffin Road, in 2011. If Robert Parker Coffin Road is included, we will incorporate language into the bid/contract documents that this road should not be resurfaced until the county completes their sanitary sewer forcemain replacement project.

The conceptual costs reported include hot-mix asphalt surface milling (4"), with placement of a new 2" asphalt binder course and 2" asphalt surface course and shoulder restoration. Pavement borings shall be obtained to confirm rehabilitation scope and estimated pricing.

In the table below, the two portions of Oak Grove Drive are separated based on the change in PCI. The change in PCI will offer a good "break point" should the Village's budget not allow for the entire resurfacing of Oak Grove Drive.

In previous years, the Village has partnered with the Village of Kildeer and Ela Township for a joint road program. If the Village is desirous of partnering again this year, we will reach out on the Village's behalf to both agencies to inquire interest on the potential advantageous partnership.

Two additional funding options, other than Village capital funds, for the 2022 Road Program is to use the Village's Allotments of the Rebuild Illinois Bond Funds or Motor-Fuel Tax Funds. If the Village elects to pursue either funding option, our office will begin coordination immediately with the Illinois DOT so this project can be bid in mid-March.

Upon your authorization, we will complete the field work and prepare the Engineer's Opinion of Probable Cost and Project Specification Book for this year's road program.

Base Bid: _____

ROADWAY	FROM	TO	2014 PCS		LENGTH, FT.	WIDTH, FT.	AREA, S.Y.	COST (\$28/s.y.)
			PCI	PROGRAMMED YEAR				
Oak Grove Drive	Illinois Route 83	5367 Oak Gr. Dr.	10	21-22	3,806	25	10,572	\$301,300
Oak Grove Circle	Oak Grove Drive	Oak Grove Drive	26	21-22	2,196	24	5,856	\$166,900
Oak Grove Drive	5367 Oak Grove Dr	Illinois Route 22	30	21-22	1,827	24	4,872	\$138,900
Sub-Total:								\$607,100
7% Contingency:								\$42,500

Total Estimated 2022 Road Maintenance Program Construction Costs: \$649,600

Soft Costs:		
Pavement Borings:		\$3,500
Design Engineering (3.75%):		\$24,400
Construction Engineering (4.5%):		\$29,200
Total Estimated Soft Costs:		\$57,100
Total Estimated Project Costs:		\$706,700

*Costs rounded to nearest \$100

Bid Alternate: _____

ROADWAY	FROM	TO	2014 PCS		LENGTH, FT.	WIDTH, FT.	AREA, S.Y.	COST (\$28/s.y.)
			PCI	PROGRAMMED YEAR				
Chickamauga Lane	Sumter Drive	Terminus	12	24-25	3,396	24	9,056	\$253,600
Robert Parker Coffin Rd	Archer Parking Lot Entrance	Illinois Route 83	8	23-24	1,373	31	4,729	\$132,400
Sub-Total:								\$386,000
7% Contingency:								\$27,000

Total Estimated Construction Costs: \$413,000

Soft Costs:		
Pavement Borings:		\$3,500
Design Engineering (3.75%):		\$15,500
Construction Engineering (4.5%):		\$18,600
Total Estimated Soft Costs:		\$37,600
Total Estimated Project Costs:		\$450,600

*Costs rounded to nearest \$100

Project Totals: Base Bid plus Bid Alternate:

Total Estimated Construction Costs:	\$1,062,600
Total Estimated Soft Costs:	\$94,700
Total Estimated Project Costs:	\$1,157,300

61% of the Village-owned roads have been resurfaced between 2015 and 2021. The Village is seven (7) years into the 15-Year Road Program started in 2015.

With the base bid, the percentage of roads resurfaced since 2015 increases to 66%. If the bid alternate is also selected, that number increases to 69%.