

Item #4:

**Res. Approving Modified 2015 Road Paving Program &
Authorization To Use MFT Funds**



**Illinois Department
of Transportation**

**Resolution for Improvement by
Municipality Under the Illinois
Highway Code**

BE IT RESOLVED, by the President and Board of Trustees of the
Council or President and Board of Trustees
 Village Long Grove of Long Grove Illinois
City, Town or Village

that the following described street(s) be improved under the Illinois Highway Code:

Name of Thoroughfare	Route	From	To
Shenandoah Avenue		Checker Road	Lincoln Avenue
Lincoln Avenue		Checker Road	Terminus (North)
Cavalry Court		Lincoln Avenue	Terminus (West)
Union Court		Lincoln Avenue	Terminus (East)
Shiloh Drive		Old Hicks Road	Hicks Road
Sheridan Court		Shiloh Drive	Terminus (East)
Checker Road		Arlington Heights Road	710-feet west
Indian Creek Road		Diamond Lake Road	1,200-feet west
Monitor Lane		Hidden Valley Drive	Allison Lane
East Mardan Drive		Mardan Drive	Monitor Lane
Middlesax Drive		Illinois Route 53	Monitor Lane (West)
Merrimac Lane		Middlesax Drive	Terminus (West)
Monticello Lane		Middlesax Drive	Terminus (West)
Mayflower Lane		Middlesax Drive	Terminus (West)

BE IT FURTHER RESOLVED,

1. That the proposed improvement shall consist of Full-Depth pulverization with HMA binder and HMA surface
placement on the above listed roads. Work will also include shoulder restoration, culvert replacements and other
associated improvements. and shall be constructed Varies wide

and be designated as Section 15-00006-00-PV

2. That there is hereby appropriated the (additional Yes No) sum of Four Hundred Thousand and 00/100
Dollars (\$400,000.00) for the
 improvement of said section from the municipality's allotment of Motor Fuel Tax funds.

3. That work shall be done by June 15, 2015 ; and,

Specify Contract or Day Labor

BE IT FURTHER RESOLVED, that the Clerk is hereby directed to transmit two certified copies of this resolution to the
 district office of the Department of Transportation.

Approved _____

 Date _____
 Department of Transportation

 Regional Engineer

I, Heidi Locker-Scheer Clerk in and for the
 Village Long Grove of Long Grove
City, Town or Village
 County of Lake , hereby certify the
 foregoing to be a true, perfect and complete copy of a resolution adopted
 by the President and Board of Trustees
Council or President and Board of Trustees
 at a meeting on February 10, 2015
Date
 IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this
 _____ day of _____
 (SEAL)

 City, Town, or Village Clerk

February 19, 2015



President & Board of Trustees
Village of Long Grove
3110 Old McHenry Road
Long Grove, Illinois 60047

625 Forest Edge Drive, Vernon Hills, IL 60061
TEL 847.478.9700 ■ FAX 847.478.9701

www.gha-engineers.com

Re: Village of Long Grove 2015 Road Maintenance Program
Authorization to Bid / Roadway Update

Dear Ladies and Gentlemen:

We have completed the field quantities and have prepared an engineer's opinion of probable cost for the proposed 2015 Road Maintenance Program (attached) that reflects the Board's request to include additional roads. Middlesax Drive and the three associated cul-de-sacs have been included. This year's program will consist of 4.25" milling, full-depth pulverization (10"), with Hot-Mix Asphalt binder and Hot-Mix Asphalt surface paving, shoulder restoration and other associated improvements of the roadways listed.

As requested, I did review the PCI rating for Middlesax Drive (9) versus East Mardan Drive (1) and note the following:

- Any PCI ratings of 10 or below would be considered failed.
- Middlesax has had more surface patching recently and more crack filling than East Mardan, It appears to be in better shape based on the factors used to determine the ratings.
- Even with what appears to be more maintenance being completed on Middlesax, my subjective drive test, indicated that it did ride a little more roughly than East Mardan. Rideability is not a factor used by the Paver software for inputting to determine the rating.
- As noted above, Middlesax and the adjacent cul-de-sacs were proposed to be in next years Road Program are now included in this years.

The Village is proposing to partially fund this year's road program with Motor Fuel Tax (MFT) funds and partially with General Funds. Since this is a unit price job, streets may be removed from the project if bids come in higher than estimated. We will reevaluate the project and adjust the scope of the maintenance improvements as necessary based on Board direction.

The resolution that was previously approved includes the additional roads per the February 10, 2015 Board meeting. Based on the additional roads being included, we are requesting authorization from the Village Board to bid the 2015 Road Maintenance Program. This year's road maintenance program can be bid after we obtain approval by IDOT due to the use of MFT funds. Our office is meeting with the state on Monday February 23, 2015 to make the document submittal. Dependent on the State's review, I would anticipate that the project could be bid in mid to late March with the bid results to be presented at one of the April 2015 Village Board meetings.

If you should have any questions or require additional information, please do not hesitate to contact me.

Sincerely,
Gewalt Hamilton Associates, Inc.

A handwritten signature in blue ink that reads "Michael T. Shrake".

Michael T. Shrake, P.E.
Village Engineer

cc: Mr. David A. Lothspeich, Village Manager – Village of Long Grove
Mr. Geoffrey L. Perry, P.E., Asst. Village Engineer – GHA

Roadways / Areas to be rehabilitated and bid as part of the 2015 Village Road Program:

Improvement	From	To	Length (ft)	Estimated Cost	PCI Rating
Archer Road & Parking Lot ('14 - '15)				\$38,177.75	N/A
Stempel Parking Lot (Village Owned Portion) ('14 - '15)				\$30,464.25	N/A
Stempel Parking Lot (Privately Owned Portion) ('14 - '15)				\$19,334.75	N/A
Checker Road ('14 - '15)	Arlington Hts Rd.	710' West	710	\$67,698.80	N/A
Indian Creek Road ('14 - '15)	Diamond Lake Road	1,200' West	1,200	\$86,273.00	N/A
Lincoln Avenue ('14 - '15)	Checker Road	Terminus (North)	4,300	\$310,595.30	0,8
Cavalry Court ('15 - '16)	Lincoln Avenue	Terminus (West)	577	\$41,662.20	31
East Mardan Drive ('15 - '16)	Mardan Drive	Monitor Lane	1,700	\$123,719.10	1
Shenandoah Lane ('15 - '16)	Checker Road	Lincoln Avenue	1,838	\$141,260.40	3
Monitor Lane ('15 - '16)	Hidden Valley Drive	Allison Lane	1,700	\$160,539.80	1&4
Shiloh Drive ('15 - '16)	Old Hicks Road	Hicks Road	2,773	\$216,513.40	3
Sheridan Court ('15 - '16)	Shiloh Drive	Terminus (East)	911	\$65,127.20	13
Union Court ('15 - '16)	Lincoln Avenue	Terminus (East)	472	\$33,382.50	10
Middlesax Drive ('16 - '17)	IL Route 53	Monitor Lane	1,900	\$145,257.20	9
Mayflower Lane ('16 - '17)	Middlesax Drive	Terminus	320	\$19,476.50	11
Monticello Lane ('16 - '17)	Middlesax Drive	Terminus	580	\$31,504.50	9
Merrimac Lane ('16 - '17)	Middlesax Drive	Terminus	580	\$29,476.80	17
Estimated Opinion of Probable Construction Cost:				\$1,560,463.45	
1.75% Contingency				\$27,308.11	
Engineering Design (3% of Construction Costs + Pavement Borings):				\$56,813.90	
Engineering Observation and Construction Management (5% of Construction Costs):				\$78,023.18	
Total Engineer's Estimated Opinion of Probable Cost:				\$1,722,608.64	

Approximate Length of Roadway Rehabilitated: 19,561 lf or 3.7 miles



Project	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	5 Year Totals	5 Year Average
Road Maintenance Program	\$770,004	\$717,872	\$776,850	\$0	\$1,154,123	\$1,211,417	\$4,630,266	\$926,053
Construction Costs	\$707,411	\$659,141	\$713,750		\$1,061,225	\$1,113,349		
Phase II Engineering (3% + borings)	\$27,222	\$25,774	\$27,413		\$39,837	\$42,400		
Phase III Engineering (5%)	\$35,371	\$32,957	\$35,688		\$53,061	\$55,667		
East Cuba Road Rehabilitation (Net Cost to Village)		\$135,443	\$105,345	\$505,654			\$746,442	\$149,288
Construction Costs				\$1,504,923				
Phase I Engineering, Includes Topographic Survey (9%)		\$135,443						
Phase II Engineering (No Land Acquisition / Wetland) (7%)			\$105,345					
Phase III Engineering (12%)				\$180,591				
Potential Fed. Participation (70/30 Match: Const. & Phase III)				(\$1,179,859)				
North Krueger Road Rehabilitation (Net Cost to Village)		\$90,161	\$70,125	\$336,601			\$496,887	\$99,377
Construction Costs				\$1,001,788				
Phase I Engineering, Includes Topographic Survey (9%)		\$90,161						
Phase II Engineering (No Land Acquisition / Wetland) (7%)			\$70,125					
Phase III Engineering (12%)				\$120,215				
Potential Fed. Participation (70/30 Match: Const. & Phase III)				(\$785,401)				
Downtown Watermain Extension								
NWWC Connection		\$600,000					\$600,000	\$120,000
Capital Infrastructure Funding Available		(\$100,000)					(\$100,000)	(\$20,000)
Downtown Loop (Net Costs After Contributions Listed)	\$45,500	\$810,705	\$113,295				\$969,500	\$193,900
Construction Costs		\$1,035,125	\$102,375				\$1,137,500	\$75,833
Phase II Engineering (No Land Acquisition) (8%)	\$45,500	\$45,500					\$91,000	\$6,067
Phase III Engineering (8%)		\$80,080	\$10,920				\$91,000	\$6,067
Harborchase of Long Grove Contribution		(\$250,000)					(\$250,000)	(\$50,000)
Archer Road Outlots Contribution		(\$100,000)					(\$100,000)	(\$20,000)
Robert Parker Coffin Road Bridge								
Alternative #1 - Major In-Place Restoration	\$35,000	\$42,000	\$350,000				\$427,000	\$85,400
Construction Costs			\$350,000				\$350,000	\$23,333
Phase I Engineering							\$0	\$0
Phase II Engineering (No Land Acquisition) (10%)	\$35,000						\$35,000	\$2,333
Phase III Engineering (12%)		\$42,000					\$42,000	\$2,800
Alternative #2 - Major In-Place Repair		\$82,080	\$483,840				\$565,920	\$113,184
Construction Costs			\$432,000				\$432,000	\$28,800
Phase I Engineering (9%)		\$38,880					\$38,880	\$2,592
Phase II Engineering (No Land Acquisition) (10%)		\$43,200					\$43,200	\$2,880
Phase III Engineering (12%)			\$51,840				\$51,840	\$3,456
Capital Infrastructure Funding Available			(\$453,205)				(\$453,205)	(\$90,641)
Alternative #3 - Reconstruction, Increase Width (Net)	\$39,900	\$235,200					\$275,100	\$55,020
Construction Costs			\$1,050,000				\$1,050,000	
Phase I Engineering (9%)		\$94,500					\$94,500	
Phase II Engineering (No Land Acquisition) (10%)		\$105,000					\$105,000	
Phase III Engineering (12%)			\$126,000				\$126,000	
Potential Fed. Participation (80/20 Match)		(\$159,600)	(\$940,800)					
**Old McHenry Road Improvements (Cost to Village)				\$2,700,000			\$2,700,000	\$540,000
Construction Costs (Streetscape Improvements)				\$2,500,000			\$2,500,000	
Phase I Engineering				\$0			\$0	
Phase II Engineering (10% of 11% of Total Const. Costs)				\$80,000			\$80,000	
Phase III Engineering (10% of 10% of Total Const. Costs)				\$73,000			\$73,000	
**Village portion; paid to LCDOT								
Robert Parker Coffin Streetscape Impvs. (Cost to Village)				\$3,700,000			\$3,700,000	\$740,000
Construction Costs (Estimate Provided by LCDOT)				\$2,900,000			\$2,900,000	
Phase I Engineering				\$145,000			\$145,000	
Phase II Engineering				\$290,000			\$290,000	
Phase III Engineering				\$290,000			\$290,000	
Stempel Parking Lot Reconstruction						\$1,300,000	\$1,300,000	\$260,000
Construction Costs						\$862,069	\$862,069	
Phase II Engineering, Includes Topographic Survey (8%)						\$68,966	\$68,966	
Phase III Engineering (8%)						\$68,966	\$68,966	
ComEd Utility Burial				\$1,456,888	\$1,592,733		\$3,049,621	\$609,924
Pathway Construction		\$100,000	\$107,000	\$114,490	\$122,504	\$131,080	\$575,074	\$115,015
Pavement Patching		\$25,000	\$26,750	\$28,623	\$30,626	\$32,770	\$143,768	\$28,754
Misc. Drainage Improvements / Ditch Reshaping		\$10,000	\$10,700	\$11,449	\$12,250	\$13,108	\$57,507	\$11,501
Totals (Road Work ONLY)	\$770,004	\$943,476	\$952,320	\$842,255	\$1,154,123	\$1,211,417	\$5,873,594	\$1,174,719
Totals (All Capital Projects excluding Streetscapes)	\$815,504	\$2,471,261	\$1,240,700	\$996,816	\$1,319,504	\$2,688,375	\$9,532,159	\$1,906,432
Totals (All Capital Projects)	\$815,504	\$2,471,261	\$1,240,700	\$5,153,704	\$6,612,237	\$2,688,375	\$18,981,780	\$3,796,356
Total of Capital Improvement Program (Road Work ONLY)							\$5,873,594	
Total of Capital Improvement Program (All Excl. Streetscape)							\$9,532,159	
Total of Capital Improvement Program (All)							\$18,981,780	
Capital Improvements Set Aside Gen Fund-Infra Eligible								
Bridge-Covered Less Extra Oakwood Above		\$453,205						
Lake Michigan Water Connection		\$100,000						
Street Signs		\$8,350						
Road Paving Fund		\$387,629						
Route 22 Improvements - Traffic Signal		\$110,658						
Total		\$1,059,842						

FY2014-2015

ROADWAY	FROM	TO	LENGTH, FT.	WIDTH, FT.	Area, S.Y.	Cost
Lincoln Avenue	Checker Road	End (North)	4,300	22	10,512	\$339,414
Shenandoah Avenue	Checker Road	Lincoln	1,838	22	4,493	\$146,876
Checker Road	Arlington Heights	710-foot West	710	28	2,208	\$65,301
Indian Creek Road	Diamond Lake Road	1,200-foot	1,200	22	2,968	\$78,363
Archer Road and Parking Lot						\$33,119
Stempel Parking Lot (Village-Owned Portion)						\$27,397
Stempel Parking Lot (Village-Owned Portion)						\$16,941
		Sub-Total:				\$707,411

Total 2014 Road Maintenance Program Construction Costs \$707,411

Soft Costs:	
Pavement Borings:	\$6,000
Design Engineering (3%):	\$21,222
Construction Engineering (5%):	\$35,371
Total Soft Costs:	\$62,593
Total Project Costs:	\$770,004

FY2015-2016

ROADWAY	FROM	TO	LENGTH, FT.	WIDTH, FT.	Area, S.Y.	Cost
Union Court	Lincoln Avenue	End (East)	472	21	1,102	\$37,413
Calvary Court	Lincoln Avenue	End (West)	577	22	1,411	\$40,970
Shiloh Drive	Old Hicks Road	Hicks Road	2,773	22	6,779	\$212,896
Sheridan Court	Shiloh Drive	Stayton Lane	911	22	2,227	\$73,141
Monitor Lane	Hidden Valley Drive	Allison Ln	2,194	19-24	4,929	\$157,760
East Mardan Drive	Mardan Drive	Monitor Ln	1,834	21	4,280	\$136,960
Sub-Total:						\$659,141
Total 2015 Road Maintenance Program Construction Costs						\$659,141

Soft Costs:

Pavement Borings:	\$6,000
Design Engineering (3%):	\$19,774
Construction Engineering (5%):	\$32,957
Total Soft Costs:	\$58,731
Total Project Costs:	\$717,872

FY2016-2017

ROADWAY	FROM	TO	LENGTH, FT.	WIDTH, FT.	Area, S.Y.	Cost
West Mardan Drive	Mardan Drive	Monitor Lane	1,943	20	4,318	\$138,169
Hilltop Road	Illinois Route 83	Terminus	2,343	19	4,946	\$158,283
Middlesax Drive	Illinois Route 53	Monitor Lane	951	22	2,325	\$74,389
Monticello Lane	Middlesax Drive	Terminus	583	16	1,036	\$33,166
Mardan Drive	Illinois Route 53	E/W Mardan Dr	260	22	636	\$20,338
Golf Road	Hilltop Road	Sunshine Lane	846	15	1,410	\$45,120
Mayflower Lane	Middlesax Drive	Terminus	319	16	567	\$18,148
Sunshine Lane	Golf Road	Terminus	473	15	788	\$25,227
Merrimac Lane	Middlesax Drive	Terminus	580	18	1,160	\$37,120
Grant Place	Schaeffer Road	Terminus	625	20	1,389	\$44,444
Grant Court	Grant Place	Terminus	408	20	907	\$29,013
Sub-Total:						\$623,417
7% Annual Inflation Compounded:						\$667,056
7% Contingency:						\$46,694
Total 2016 Road Maintenance Program Construction Costs						\$713,750

Soft Costs:		
Pavement Borings:		\$6,000
Design Engineering (3%):		\$21,413
Construction Engineering (5%):		\$35,688
Total Soft Costs:		\$63,100
Total Project Costs:		\$776,850