

Item #5:

Res. Approving 2015 Road Paving Program & MFT Authorization



CONSULTING ENGINEERS

625 Forest Edge Drive, Vernon Hills, IL 60061

TEL 847.478.9700 ■ FAX 847.478.9701

www.gha-engineers.com

December 16, 2014

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

Re: Year 2015 Road Maintenance Program
Section Number – To Be Determined
Authorization to Bid / MFT Resolution
Village of Long Grove

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. This year's program will consist of full-depth pulverization with Hot-Mix Asphalt binder and Hot-Mix Asphalt surface paving, shoulder restoration and other associated improvements of the roadways listed.

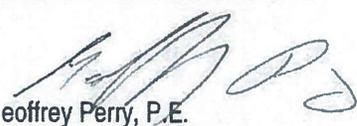
It is understood that the Village is proposing to partially fund this year's road program with Motor Fuel Tax (MFT) funds and partially with General Funds. As we receive the bids for this year's project we will reevaluate the project and adjust the scope of the maintenance improvements as necessary.

We recommend that the Village Board approve the attached IDOT resolution, to allocate \$400,000.00 from the Village's MFT fund. We have enclosed the IDOT MFT resolution form BLR 09111 (5 copies) for execution.

In addition to approving the resolution, 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. Dependent on the State's review, I would anticipate that the project could be bid in mid-to-late February with the bid results to be presented at the March 2015 Village Board meeting.

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

Sincerely,
Gewalt Hamilton Associates, Inc.



Geoffrey Perry, P.E.
Assistant Village Engineer

Encl: IDOT MFT resolution form BLR 09111 (5 copies)

cc: Mr. David A. Lothspeich, Village Manager – Village of Long Grove
Mr. Michael T. Shrake, P.E., Village Engineer – GHA

5000.004 Authorization to Bid-MFT Resolution_Final.docx

Roadways / Areas to be resurfaced and maintained as part of the 2015 Village Road Program:

Road Name	From	To	Cost	PCI Rating
Shenandoah Lane	Checker Road	Lincoln Avenue	\$146,876.40	3
Lincoln Avenue	Checker Road	Terminus (North)	\$339,414.30	0,8
Cavalry Court	Lincoln Avenue	Terminus (West)	\$42,920.20	31
Union Court	Lincoln Avenue	Terminus (East)	\$37,413.00	10
Shiloh Drive	Old Hicks Road	Hicks Road	\$212,896.40	3
Sheridan Court	Shiloh Drive	Terminus (East)	\$73,141.20	13
Checker Road	Arlington Heights Rd.	710' West	\$64,261.30	N/A
Indian Creek Road	Diamond Lake Road	1,200' West	\$78,362.50	N/A
Archer Road & Parking Lot			\$38,177.75	N/A
Stempel Parking Lot (Village Owned Portion)			\$30,464.25	N/A
Stempel Parking Lot (Privately Owned Portion)			\$19,334.75	N/A
Monitor Lane	Hidden Valley Drive	Allison Lane	\$151,731.80	1&4
East Mardan Drive	Mardan Drive	Monitor Lane	\$119,694.60	1
Total Engineer's Opinion of Probable Construction Cost:			\$1,354,688.45	
Engineering Design (3% of Construction Costs + Pavement Borings):			\$52,640.65	
Engineering Observation and Construction Management (5% of Construction Costs):			\$67,734.42	
Total Engineer's Opinion of Probable Cost:			\$1,475,063.52	

*Estimated Costs



**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

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 _____

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,

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 January 13, 2015
 Date
 IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this
 _____ day of _____
 (SEAL)

 City, Town, or Village Clerk

ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry

Date: December 15, 2014
 Checked by: Michael T. Shrake, P.E.



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2015 ROAD MAINTENANCE PROGRAM - BOT APPROVED SCOPE

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	143.0	CY	\$50.00	\$7,150.00
21001000	Geotechnical Fabric For Ground Stabilization	418.0	SY	\$1.50	\$627.00
21101600	Topsoil Furnish and Place, Variable Depth	13,739.0	SY	\$2.50	\$34,347.50
21400100	Grading and Shaping Ditches	160.0	FT	\$30.00	\$4,800.00
25000110	Seeding, Class 1A	2.9	AC	\$3,000.00	\$8,730.00
25000400	Nitrogen Fertilizer Nutrient	266.0	LB	\$2.00	\$532.00
25000500	Phosphorus Fertilizer Nutrient	266.0	LB	\$2.00	\$532.00
25000600	Potassium Fertilizer Nutrient	266.0	LB	\$2.00	\$532.00
25100127	Mulch, Method 3A	13,739.0	SY	\$3.00	\$41,217.00
30300001	Aggregate Subgrade Improvement	143.0	CY	\$45.00	\$6,435.00
35800100	Preparation of Base	41,254.0	SY	\$1.50	\$61,881.00
40200800	Aggregate Surface Course, Type B	8.0	TN	\$50.00	\$400.00
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	5,349.0	TN	\$75.00	\$401,175.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	4,761.0	TN	\$80.00	\$380,880.00
40800020	Bituminous Materials (Prime Coat)	9,289.0	LB	\$0.80	\$7,431.20
42300200	PCC Driveway Pavement, 6 Inch	157.0	SY	\$80.00	\$12,560.00
44000200	Driveway Pavement Removal	3,623.0	SY	\$10.00	\$36,230.00
44000500	Combination Concrete Curb and Gutter Removal	10.0	FT	\$30.00	\$300.00
50105220	Pipe Culvert Removal	45.0	FT	\$20.00	\$900.00
54213660	Precast Reinforced Concrete Flared End Sections 15"	2.0	EA	\$900.00	\$1,800.00
542A0220	Pipe Culverts, Class A, Type 1 15"	35.0	FT	\$65.00	\$2,275.00
542A0223	Pipe Culverts, Class A, Type 1 18"	5.0	FT	\$150.00	\$750.00
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR	2.0	EA	\$2,400.00	\$4,800.00
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)	10.0	FT	\$100.00	\$1,000.00
78000100	Thermoplastic Pavement Marking - Line 4"	6,865.0	FT	\$0.60	\$4,119.00
78000650	Thermoplastic Pavement Marking - Line 24"	34.0	FT	\$10.00	\$340.00
78001100	Paint Pavement Marking - Letters and Symbols	67.0	SF	\$4.50	\$301.50
78001110	Paint Pavement Marking - Line 4"	12,685.0	FT	\$0.50	\$6,342.50
78001130	Paint Pavement Marking - Line 6"	105.0	FT	\$0.75	\$78.75
78001150	Paint Pavement Marking - Line 12"	210.0	FT	\$1.00	\$210.00
78001180	Paint Pavement Marking - Line 24"	84.0	FT	\$3.50	\$294.00
88600600	Detector Loop Replacement	180.0	FT	\$10.00	\$1,800.00
LR400899	Full-Depth Reclamation, 10"	41,254.0	SY	\$2.00	\$82,508.00
X4230710	PCC Driveway Pavement, 6 Inch, Special	240.0	SY	\$90.00	\$21,600.00
XX004774	Brick Driveway Removal and Replacement	2,560.0	SF	\$15.00	\$38,400.00
XX007449	Remove and Replace Concrete Edging 12" Wide	64.0	FT	\$45.00	\$2,880.00
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	3,226.0	SY	\$30.00	\$96,780.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV	950.0	SY	\$35.00	\$33,250.00
	Flared End Section Removal	2.0	EA	\$500.00	\$1,000.00
	Asphalt Emulsion Sealcoat, 2 Coats	23,750.0	SY	\$2.00	\$47,500.00

Construction: \$1,354,688.45
 Contingency (7%): \$94,828.19

Total: \$1,449,516.64

Detailed Description:

The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

*Since Gewalt-Hamilton Associates Inc. Has No Control Over the Cost of Labor, Materials, or Equipment, or Over the Contractor's Methods of Determining Prices, or Over Competitive Bidding of Market Conditions, Opinions of Probable Costs, as Provided for Herein, Are to be Made on the Basis of Experience and Qualifications and Represent the Best Judgement as a Design Professional Familiar with the Construction Industry. Gewalt-Hamilton Associates, Inc., Cannot and Does Not Guarantee That Proposals, Bids, or The Construction Costs Will Not Vary From Opinions of Probable Cost Prepared for the Owner.

ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
 Revised date: December 15, 2014
 Revised by: Michael T. Shrake, P.E.



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Shenandoah Ln (Checker Rd to Lincoln Ave)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	16.0	CY	\$50.00	\$800.00
21001000	Geotechnical Fabric For Ground Stabilization	46.0	SY	\$1.50	\$69.00
21101600	Topsoil Furnish and Place, Variable Depth	2,150.0	SY	\$2.50	\$5,375.00
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.45	AC	\$3,000.00	\$1,350.00
25000400	Nitrogen Fertilizer Nutrient	41.0	LB	\$2.00	\$82.00
25000500	Phosphorus Fertilizer Nutrient	41.0	LB	\$2.00	\$82.00
25000600	Potassium Fertilizer Nutrient	41.0	LB	\$2.00	\$82.00
25100127	Mulch, Method 3A	2,150.0	SY	\$3.00	\$6,450.00
30300001	Aggregate Subgrade Improvement	16.0	CY	\$45.00	\$720.00
35800100	Preparation of Base	4,590.0	SY	\$1.50	\$6,885.00
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	595.0	TN	\$75.00	\$44,625.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	530.0	TN	\$80.00	\$42,400.00
40800020	Bituminous Materials (Prime Coat)	1,033.0	LB	\$0.80	\$826.40
42300200	PCC Driveway Pavement, 6 Inch	35.0	SY	\$80.00	\$2,800.00
44000200	Driveway Pavement Removal	655.0	SY	\$10.00	\$6,550.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	4,590.0	SY	\$2.00	\$9,180.00
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement		SF	\$15.00	
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	620.0	SY	\$30.00	\$18,600.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$146,876.40
 Contingency (7%): \$10,281.35

Total: \$157,157.75

Detailed Description:

The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

*Since Gewalt-Hamilton Associates Inc. Has No Control Over the Cost of Labor, Materials, or Equipment, or Over the Contractor's Methods of Determining Prices, or Over Competitive Bidding of Market Conditions, Opinions of Probable Costs, as Provided for Herein, Are to be Made on the Basis of Experience and Qualifications and Represent the Best Judgement as a Design Professional Familiar with the Construction Industry. Gewalt-Hamilton Associates, Inc., Cannot and Does Not Guarantee That Proposals, Bids, or The Construction Costs Will Not Vary From Opinions of Probable Cost Prepared for the Owner.

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Lincoln Ave (Checker Rd to Lexington Dr)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	17.0	CY	\$50.00	\$850.00
21001000	Geotechnical Fabric For Ground Stabilization	49.0	SY	\$1.50	\$73.50
21101600	Topsoil Furnish and Place, Variable Depth	2,425.0	SY	\$2.50	\$6,062.50
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.51	AC	\$3,000.00	\$1,530.00
25000400	Nitrogen Fertilizer Nutrient	46.0	LB	\$2.00	\$92.00
25000500	Phosphorus Fertilizer Nutrient	46.0	LB	\$2.00	\$92.00
25000600	Potassium Fertilizer Nutrient	46.0	LB	\$2.00	\$92.00
25100127	Mulch, Method 3A	2,425.0	SY	\$3.00	\$7,275.00
30300001	Aggregate Subgrade Improvement	17.0	CY	\$45.00	\$765.00
35800100	Preparation of Base	4,850.0	SY	\$1.50	\$7,275.00
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	630.0	TN	\$75.00	\$47,250.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	561.0	TN	\$80.00	\$44,880.00
40800020	Bituminous Materials (Prime Coat)	1,092.0	LB	\$0.80	\$873.60
42300200	PCC Driveway Pavement, 6 Inch	30.0	SY	\$80.00	\$2,400.00
44000200	Driveway Pavement Removal	600.0	SY	\$10.00	\$6,000.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	4,850.0	SY	\$2.00	\$9,700.00
X4230710	PCC Driveway Pavement, 6 Inch, Special	40.0	SY	\$90.00	\$3,600.00
XX004774	Brick Driveway Removal and Replacement	320.0	SF	\$15.00	\$4,800.00
XX007449	Remove and Replace Concrete Edging 12" Wide	40.0	FT	\$45.00	\$1,800.00
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	530.0	SY	\$30.00	\$15,900.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$161,310.60
 Contingency (7%): \$11,291.74

Total: \$172,602.34

Detailed Description:
 The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

*Since Gewalt-Hamilton Associates Inc. Has No Control Over the Cost of Labor, Materials, or Equipment, or Over the Contractor's Methods of Determining Prices, or Over Competitive Bidding of Market Conditions, Opinions of Probable Costs, as Provided for Herein, Are to be Made on the Basis of Experience and Qualifications and Represent the Best Judgement as a Design Professional Familiar with the Construction Industry. Gewalt-Hamilton Associates, Inc., Cannot and Does Not Guarantee That Proposals, Bids, or The Construction Costs Will Not Vary From Opinions of Probable Cost Prepared for the Owner.

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21001000	Geotechnical Fabric For Ground Stabilization	54.0	SY	\$1.50	\$81.00
21101600	Topsoil Furnish and Place, Variable Depth	1,465.0	SY	\$2.50	\$3,662.50
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.31	AC	\$3,000.00	\$930.00
25000400	Nitrogen Fertilizer Nutrient	28.0	LB	\$2.00	\$56.00
25000500	Phosphorus Fertilizer Nutrient	28.0	LB	\$2.00	\$56.00
25000600	Potassium Fertilizer Nutrient	28.0	LB	\$2.00	\$56.00
25100127	Mulch, Method 3A	1,465.0	SY	\$3.00	\$4,395.00
30300001	Aggregate Subgrade Improvement	18.0	CY	\$45.00	\$810.00
35800100	Preparation of Base	5,370.0	SY	\$1.50	\$8,055.00
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	695.0	TN	\$75.00	\$52,125.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	619.0	TN	\$80.00	\$49,520.00
40800020	Bituminous Materials (Prime Coat)	1,209.0	LB	\$0.80	\$967.20
42300200	PCC Driveway Pavement, 6 Inch		SY	\$80.00	
44000200	Driveway Pavement Removal	780.0	SY	\$10.00	\$7,800.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
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60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	5,370.0	SY	\$2.00	\$10,740.00
X4230710	PCC Driveway Pavement, 6 Inch, Special	130.0	SY	\$90.00	\$11,700.00
XX004774	Brick Driveway Removal and Replacement	450.0	SF	\$15.00	\$6,750.00
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	650.0	SY	\$30.00	\$19,500.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$178,103.70
 Contingency (7%): \$12,467.26

Total: \$190,570.96

Detailed Description:
 The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

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ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
 Revised date: December 15, 2014
 Revised by: Michael T. Shrake, P.E.



CONSULTING ENGINEERS

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 TEL 847.478.9700 ■ FAX 847.478.9701

820 Lakeside Drive, Suite 5, Gurnee, IL 60031
 TEL 847.855.1100 ■ FAX 847.855.1115

www.gha-engineers.com

Cavalry Ct (Lincoln Ave to Terminus)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	5.0	CY	\$50.00	\$250.00
21001000	Geotechnical Fabric For Ground Stabilization	15.0	SY	\$1.50	\$22.50
21101600	Topsoil Furnish and Place, Variable Depth	305.0	SY	\$2.50	\$762.50
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.07	AC	\$3,000.00	\$210.00
25000400	Nitrogen Fertilizer Nutrient	7.0	LB	\$2.00	\$14.00
25000500	Phosphorus Fertilizer Nutrient	7.0	LB	\$2.00	\$14.00
25000600	Potassium Fertilizer Nutrient	7.0	LB	\$2.00	\$14.00
25100127	Mulch, Method 3A	305.0	SY	\$3.00	\$915.00
30300001	Aggregate Subgrade Improvement	5.0	CY	\$45.00	\$225.00
35800100	Preparation of Base	1,460.0	SY	\$1.50	\$2,190.00
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	190.0	TN	\$75.00	\$14,250.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	169.0	TN	\$80.00	\$13,520.00
40800020	Bituminous Materials (Prime Coat)	329.0	LB	\$0.80	\$263.20
42300200	PCC Driveway Pavement, 6 Inch	25.0	SY	\$80.00	\$2,000.00
44000200	Driveway Pavement Removal	115.0	SY	\$10.00	\$1,150.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	1,460.0	SY	\$2.00	\$2,920.00
X4230710	PCC Driveway Pavement, 6 Inch, Special	25.0	SY	\$90.00	\$2,250.00
XX004774	Brick Driveway Removal and Replacement		SF	\$15.00	
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	65.0	SY	\$30.00	\$1,950.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$42,920.20
 Contingency (7%): \$3,004.41
Total: \$45,924.61

Detailed Description:
 The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

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ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
 Revised date: December 15, 2014
 Revised by: Michael T. Shrake, P.E.

GHA GEWALT HAMILTON
 ASSOCIATES, INC.
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Union Ct (Lincoln Ave to Terminus)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	4.0	CY	\$50.00	\$200.00
21001000	Geotechnical Fabric For Ground Stabilization	12.0	SY	\$1.50	\$18.00
21101600	Topsoil Furnish and Place, Variable Depth	228.0	SY	\$2.50	\$570.00
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.05	AC	\$3,000.00	\$150.00
25000400	Nitrogen Fertilizer Nutrient	5.0	LB	\$2.00	\$10.00
25000500	Phosphorus Fertilizer Nutrient	5.0	LB	\$2.00	\$10.00
25000600	Potassium Fertilizer Nutrient	5.0	LB	\$2.00	\$10.00
25100127	Mulch, Method 3A	228.0	SY	\$3.00	\$684.00
30300001	Aggregate Subgrade Improvement	4.0	CY	\$45.00	\$180.00
35800100	Preparation of Base	1,200.0	SY	\$1.50	\$1,800.00
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	155.0	TN	\$75.00	\$11,625.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	138.0	TN	\$80.00	\$11,040.00
40800020	Bituminous Materials (Prime Coat)	270.0	LB	\$0.80	\$216.00
42300200	PCC Driveway Pavement, 6 Inch		SY	\$80.00	
44000200	Driveway Pavement Removal	25.0	SY	\$10.00	\$250.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	1,200.0	SY	\$2.00	\$2,400.00
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement	500.0	SF	\$15.00	\$7,500.00
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	25.0	SY	\$30.00	\$750.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$37,413.00
 Contingency (7%): \$2,618.91

Total: \$40,031.91

Detailed Description:

The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

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ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
 Revised date: December 15, 2014
 Revised by: Michael T. Shrake, P.E.



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Shiloh Dr (Old Hicks Rd to Hicks Rd)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	24.0	CY	\$50.00	\$1,200.00
21001000	Geotechnical Fabric For Ground Stabilization	71.0	SY	\$1.50	\$106.50
21101600	Topsoil Furnish and Place, Variable Depth	1,793.0	SY	\$2.50	\$4,482.50
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.38	AC	\$3,000.00	\$1,140.00
25000400	Nitrogen Fertilizer Nutrient	35.0	LB	\$2.00	\$70.00
25000500	Phosphorus Fertilizer Nutrient	35.0	LB	\$2.00	\$70.00
25000600	Potassium Fertilizer Nutrient	35.0	LB	\$2.00	\$70.00
25100127	Mulch, Method 3A	1,793.0	SY	\$3.00	\$5,379.00
30300001	Aggregate Subgrade Improvement	24.0	CY	\$45.00	\$1,080.00
35800100	Preparation of Base	7,100.0	SY	\$1.50	\$10,650.00
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	920.0	TN	\$75.00	\$69,000.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	819.0	TN	\$80.00	\$65,520.00
40800020	Bituminous Materials (Prime Coat)	1,598.0	LB	\$0.80	\$1,278.40
42300200	PCC Driveway Pavement, 6 Inch		SY	\$80.00	
44000200	Driveway Pavement Removal	640.0	SY	\$10.00	\$6,400.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal	45.0	FT	\$20.00	\$900.00
54213660	Precast Reinforced Concrete Flared End Sections 15"	2.0	EA	\$900.00	\$1,800.00
542A0220	Pipe Culverts, Class A, Type 1 15"	30.0	FT	\$65.00	\$1,950.00
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	7,100.0	SY	\$2.00	\$14,200.00
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement	560.0	SF	\$15.00	\$8,400.00
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	640.0	SY	\$30.00	\$19,200.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$212,896.40
 Contingency (7%): \$14,902.75
Total: \$227,799.15

Detailed Description:
 The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

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ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
 Revised date: December 15, 2014
 Revised by: Michael T. Shrake, P.E.



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Sheridan Ct (Shiloh Dr to Terminus)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	8.0	CY	\$50.00	\$400.00
21001000	Geotechnical Fabric For Ground Stabilization	23.0	SY	\$1.50	\$34.50
21101600	Topsoil Furnish and Place, Variable Depth	578.0	SY	\$2.50	\$1,445.00
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.12	AC	\$3,000.00	\$360.00
25000400	Nitrogen Fertilizer Nutrient	11.0	LB	\$2.00	\$22.00
25000500	Phosphorus Fertilizer Nutrient	11.0	LB	\$2.00	\$22.00
25000600	Potassium Fertilizer Nutrient	11.0	LB	\$2.00	\$22.00
25100127	Mulch, Method 3A	578.0	SY	\$3.00	\$1,734.00
30300001	Aggregate Subgrade Improvement	8.0	CY	\$45.00	\$360.00
35800100	Preparation of Base	2,215.0	SY	\$1.50	\$3,322.50
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	290.0	TN	\$75.00	\$21,750.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	258.0	TN	\$80.00	\$20,640.00
40800020	Bituminous Materials (Prime Coat)	499.0	LB	\$0.80	\$399.20
42300200	PCC Driveway Pavement, 6 Inch	25.0	SY	\$80.00	\$2,000.00
44000200	Driveway Pavement Removal	150.0	SY	\$10.00	\$1,500.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	2,215.0	SY	\$2.00	\$4,430.00
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement	730.0	SF	\$15.00	\$10,950.00
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	125.0	SY	\$30.00	\$3,750.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$73,141.20
 Contingency (7%): \$5,119.88

Total: \$78,261.08

Detailed Description:

The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

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ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
 Revised date: December 15, 2014
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Checker Road (Arlington Heights Road to 710' West)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	8.0	CY	\$50.00	\$400.00
21001000	Geotechnical Fabric For Ground Stabilization	23.0	SY	\$1.50	\$34.50
21101600	Topsoil Furnish and Place, Variable Depth	631.0	SY	\$2.50	\$1,577.50
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.14	AC	\$3,000.00	\$420.00
25000400	Nitrogen Fertilizer Nutrient	13.0	LB	\$2.00	\$26.00
25000500	Phosphorus Fertilizer Nutrient	13.0	LB	\$2.00	\$26.00
25000600	Potassium Fertilizer Nutrient	13.0	LB	\$2.00	\$26.00
25100127	Mulch, Method 3A	631.0	SY	\$3.00	\$1,893.00
30300001	Aggregate Subgrade Improvement	8.0	CY	\$45.00	\$360.00
35800100	Preparation of Base	2,209.0	SY	\$1.50	\$3,313.50
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	286.0	TN	\$75.00	\$21,450.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	255.0	TN	\$80.00	\$20,400.00
40800020	Bituminous Materials (Prime Coat)	498.0	LB	\$0.80	\$398.40
42300200	PCC Driveway Pavement, 6 Inch		SY	\$80.00	
44000200	Driveway Pavement Removal	106.0	SY	\$10.00	\$1,060.00
44000500	Combination Concrete Curb and Gutter Removal	10.0	FT	\$30.00	\$300.00
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)	10.0	FT	\$100.00	\$1,000.00
78000100	Thermoplastic Pavement Marking - Line 4"	3,264.0	FT	\$0.60	\$1,958.40
78000650	Thermoplastic Pavement Marking - Line 24"	22.0	FT	\$10.00	\$220.00
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement	180.0	FT	\$10.00	\$1,800.00
LR400899	Full-Depth Reclamation, 10"	2,209.0	SY	\$2.00	\$4,418.00
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement		SF	\$15.00	
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	106.0	SY	\$30.00	\$3,180.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$64,261.30
 Contingency (7%): \$4,498.29
Total: \$68,759.59

Detailed Description:
 The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

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ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
 Revised date: December 15, 2014
 Revised by: Michael T. Shrake, P.E.



CONSULTING ENGINEERS

850 Forest Edge Drive, Vernon Hills, IL 60061
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Indian Creek Road (Diamond Lake Road ROW to 1,200' West)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	10.0	CY	\$50.00	\$500.00
21001000	Geotechnical Fabric For Ground Stabilization	30.0	SY	\$1.50	\$45.00
21101600	Topsoil Furnish and Place, Variable Depth	1,067.0	SY	\$2.50	\$2,667.50
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.23	AC	\$3,000.00	\$690.00
25000400	Nitrogen Fertilizer Nutrient	21.0	LB	\$2.00	\$42.00
25000500	Phosphorus Fertilizer Nutrient	21.0	LB	\$2.00	\$42.00
25000600	Potassium Fertilizer Nutrient	21.0	LB	\$2.00	\$42.00
25100127	Mulch, Method 3A	1,067.0	SY	\$3.00	\$3,201.00
30300001	Aggregate Subgrade Improvement	10.0	CY	\$45.00	\$450.00
35800100	Preparation of Base	2,968.0	SY	\$1.50	\$4,452.00
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	384.0	TN	\$75.00	\$28,800.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	342.0	TN	\$80.00	\$27,360.00
40800020	Bituminous Materials (Prime Coat)	668.0	LB	\$0.80	\$534.40
42300200	PCC Driveway Pavement, 6 Inch		SY	\$80.00	
44000200	Driveway Pavement Removal	33.0	SY	\$10.00	\$330.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"	3,601.0	FT	\$0.60	\$2,160.60
78000650	Thermoplastic Pavement Marking - Line 24"	12.0	FT	\$10.00	\$120.00
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	2,968.0	SY	\$2.00	\$5,936.00
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement		SF	\$15.00	
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	33.0	SY	\$30.00	\$990.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$78,362.50
 Contingency (7%): \$5,485.38

Total: \$83,847.88

Detailed Description:
 The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavemtn surface and shoulder restoration (seed & blanket) to an average width of 4'.

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ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
 Revised date: December 15, 2014
 Revised by: Michael T. Shrake, P.E.



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Archer Road & Parking Lot

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material		CY	\$50.00	
21001000	Geotechnical Fabric For Ground Stabilization		SY	\$1.50	
21101600	Topsoil Furnish and Place, Variable Depth		SY	\$2.50	
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A		AC	\$3,000.00	
25000400	Nitrogen Fertilizer Nutrient		LB	\$2.00	
25000500	Phosphorus Fertilizer Nutrient		LB	\$2.00	
25000600	Potassium Fertilizer Nutrient		LB	\$2.00	
25100127	Mulch, Method 3A		SY	\$3.00	
30300001	Aggregate Subgrade Improvement		CY	\$45.00	
35800100	Preparation of Base		SY	\$1.50	
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50		TN	\$75.00	
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50		TN	\$80.00	
40800020	Bituminous Materials (Prime Coat)		LB	\$0.80	
42300200	PCC Driveway Pavement, 6 Inch		SY	\$80.00	
44000200	Driveway Pavement Removal		SY	\$10.00	
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols	35.0	SF	\$4.50	\$157.50
78001110	Paint Pavement Marking - Line 4"	6,375.0	FT	\$0.50	\$3,187.50
78001130	Paint Pavement Marking - Line 6"	105.0	FT	\$0.75	\$78.75
78001150	Paint Pavement Marking - Line 12"	210.0	FT	\$1.00	\$210.00
78001180	Paint Pavement Marking - Line 24"	84.0	FT	\$3.50	\$294.00
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"		SY	\$2.00	
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement		SF	\$15.00	
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"		SY	\$30.00	
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV	330.0	SY	\$35.00	\$11,550.00
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats	11,350.0	SY	\$2.00	\$22,700.00

Construction: \$38,177.75
 Contingency (7%): \$2,672.44

Total: \$40,850.19

Detailed Description:
 The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

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ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
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Stempel Parking Lot (Village-Owned Portion)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material		CY	\$50.00	
21001000	Geotechnical Fabric For Ground Stabilization		SY	\$1.50	
21101600	Topsoil Furnish and Place, Variable Depth		SY	\$2.50	
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A		AC	\$3,000.00	
25000400	Nitrogen Fertilizer Nutrient		LB	\$2.00	
25000500	Phosphorus Fertilizer Nutrient		LB	\$2.00	
25000600	Potassium Fertilizer Nutrient		LB	\$2.00	
25100127	Mulch, Method 3A		SY	\$3.00	
30300001	Aggregate Subgrade Improvement		CY	\$45.00	
35800100	Preparation of Base		SY	\$1.50	
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50		TN	\$75.00	
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50		TN	\$80.00	
40800020	Bituminous Materials (Prime Coat)		LB	\$0.80	
42300200	PCC Driveway Pavement, 6 Inch		SY	\$80.00	
44000200	Driveway Pavement Removal		SY	\$10.00	
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols	32.0	SF	\$4.50	\$144.00
78001110	Paint Pavement Marking - Line 4"	4,098.0	FT	\$0.50	\$2,049.00
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"		SY	\$2.00	
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement		SF	\$15.00	
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"		SY	\$30.00	
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV	377.0	SY	\$35.00	\$13,193.25
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats	7,539.0	SY	\$2.00	\$15,078.00
Construction:					\$30,464.25
Contingency (7%):					\$2,132.50
Total:					\$32,596.75

Detailed Description:
 The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

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ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
 Revised date: December 15, 2014
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Stempel Parking Lot (Privately-Owned Portion)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material		CY	\$50.00	
21001000	Geotechnical Fabric For Ground Stabilization		SY	\$1.50	
21101600	Topsoil Furnish and Place, Variable Depth		SY	\$2.50	
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A		AC	\$3,000.00	
25000400	Nitrogen Fertilizer Nutrient		LB	\$2.00	
25000500	Phosphorus Fertilizer Nutrient		LB	\$2.00	
25000600	Potassium Fertilizer Nutrient		LB	\$2.00	
25100127	Mulch, Method 3A		SY	\$3.00	
30300001	Aggregate Subgrade Improvement		CY	\$45.00	
35800100	Preparation of Base		SY	\$1.50	
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50		TN	\$75.00	
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50		TN	\$80.00	
40800020	Bituminous Materials (Prime Coat)		LB	\$0.80	
42300200	PCC Driveway Pavement, 6 Inch		SY	\$80.00	
44000200	Driveway Pavement Removal		SY	\$10.00	
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"	2,212.0	FT	\$0.50	\$1,106.00
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"		SY	\$2.00	
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement		SF	\$15.00	
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"		SY	\$30.00	
	Partial Depth Pvt. Patches, 4", Class D, Type I-IV	243.1	SY	\$35.00	\$8,506.75
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats	4,861.0	SY	\$2.00	\$9,722.00

Construction: \$19,334.75
 Contingency (7%): \$1,353.43

Total: \$20,688.18

Detailed Description:
 The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavemtn surface and shoulder restoration (seed & blanket) to an average width of 4'.

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2015 Road Maintenance Program
 Village of Long Grove
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Monitor Lane (Hidden Valley Drive to Middlesax Lane)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	13.0	CY	\$50.00	\$650.00
21001000	Geotechnical Fabric For Ground Stabilization	37.0	SY	\$1.50	\$55.50
21101600	Topsoil Furnish and Place, Variable Depth	1,661.0	SY	\$2.50	\$4,152.50
21400100	Grading and Shaping Ditches	160.0	FT	\$30.00	\$4,800.00
25000110	Seeding, Class 1A	0.35	AC	\$3,000.00	\$1,050.00
25000400	Nitrogen Fertilizer Nutrient	32.0	LB	\$2.00	\$64.00
25000500	Phosphorus Fertilizer Nutrient	32.0	LB	\$2.00	\$64.00
25000600	Potassium Fertilizer Nutrient	32.0	LB	\$2.00	\$64.00
25100127	Mulch, Method 3A	1,661.0	SY	\$3.00	\$4,983.00
30300001	Aggregate Subgrade Improvement	13.0	CY	\$45.00	\$585.00
35800100	Preparation of Base	3,658.0	SY	\$1.50	\$5,487.00
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	474.0	TN	\$75.00	\$35,550.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	421.0	TN	\$80.00	\$33,680.00
40800020	Bituminous Materials (Prime Coat)	824.0	LB	\$0.80	\$659.20
42300200	PCC Driveway Pavement, 6 Inch	26.0	SY	\$80.00	\$2,080.00
44000200	Driveway Pavement Removal	166.0	SY	\$10.00	\$1,660.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"	5.0	FT	\$65.00	\$325.00
542A0223	Pipe Culverts, Class A, Type 1 18"	5.0	FT	\$150.00	\$750.00
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR	2.0	EA	\$2,400.00	\$4,800.00
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	3,658.0	SY	\$2.00	\$7,316.00
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement		SF	\$15.00	
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	140.0	SY	\$30.00	\$4,200.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal	2.0	EA	\$500.00	\$1,000.00
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	
Construction:					\$113,975.20
Contingency (7%):					\$7,978.26
Total:					\$121,953.46

Detailed Description:

The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavemetrn surface and shoulder restoration (seed & blanket) to an average width of 4'.

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CONSULTING ENGINEERS

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

820 Lakeside Drive, Suite 5, Gurnee, IL 60031
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www.gha-engineers.com

Monitor Lane (Middlesax Lane to Allison Lane)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	5.0	CY	\$50.00	\$250.00
21001000	Geotechnical Fabric For Ground Stabilization	15.0	SY	\$1.50	\$22.50
21101600	Topsoil Furnish and Place, Variable Depth	476.0	SY	\$2.50	\$1,190.00
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.10	AC	\$3,000.00	\$300.00
25000400	Nitrogen Fertilizer Nutrient	9.0	LB	\$2.00	\$18.00
25000500	Phosphorus Fertilizer Nutrient	9.0	LB	\$2.00	\$18.00
25000600	Potassium Fertilizer Nutrient	9.0	LB	\$2.00	\$18.00
25100127	Mulch, Method 3A	476.0	SY	\$3.00	\$1,428.00
30300001	Aggregate Subgrade Improvement	5.0	CY	\$45.00	\$225.00
35800100	Preparation of Base	1,427.0	SY	\$1.50	\$2,140.50
40200800	Aggregate Surface Course, Type B		TN	\$50.00	
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	185.0	TN	\$75.00	\$13,875.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	165.0	TN	\$80.00	\$13,200.00
40800020	Bituminous Materials (Prime Coat)	322.0	LB	\$0.80	\$257.60
42300200	PCC Driveway Pavement, 6 Inch		SY	\$80.00	
44000200	Driveway Pavement Removal	49.0	SY	\$10.00	\$490.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	1,427.0	SY	\$2.00	\$2,854.00
X4230710	PCC Driveway Pavement, 6 Inch, Special		SY	\$90.00	
XX004774	Brick Driveway Removal and Replacement		SF	\$15.00	
XX007449	Remove and Replace Concrete Edging 12" Wide		FT	\$45.00	
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	49.0	SY	\$30.00	\$1,470.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$37,756.60
 Contingency (7%): \$2,642.96

Total: \$40,399.56

Detailed Description:

The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavement surface and shoulder restoration (seed & blanket) to an average width of 4'.

*Since Gewalt-Hamilton Associates Inc. Has No Control Over the Cost of Labor, Materials, or Equipment, or Over the Contractor's Methods of Determining Prices, or Over Competitive Bidding of Market Conditions, Opinions of Probable Costs, as Provided for Herein, Are to be Made on the Basis of Experience and Qualifications and Represent the Best Judgement as a Design Professional Familiar with the Construction Industry. Gewalt-Hamilton Associates, Inc., Cannot and Does Not Guarantee That Proposals, Bids, or The Construction Costs Will Not Vary From Opinions of Probable Cost Prepared for the Owner.

ENGINEER'S OPINION OF PROBABLE COST

2015 Road Maintenance Program
 Village of Long Grove
 Long Grove, Illinois
 GHA #5000.004

Date: December 15, 2014
 Prepared by: Lucas Deferville / Bill Klewin / Geoffrey Perry
 Revised date: December 15, 2014
 Revised by: Michael T. Shrake, P.E.



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East Mardan Lane (Mardan Drive to Monitor Lane)

Pay Item	Description	Quantity	Unit	Unit Price	Value
20201200	Removal and Disposal of Unsuitable Material	15.0	CY	\$50.00	\$750.00
21001000	Geotechnical Fabric For Ground Stabilization	43.0	SY	\$1.50	\$64.50
21101600	Topsoil Furnish and Place, Variable Depth	960.0	SY	\$2.50	\$2,400.00
21400100	Grading and Shaping Ditches		FT	\$30.00	
25000110	Seeding, Class 1A	0.20	AC	\$3,000.00	\$600.00
25000400	Nitrogen Fertilizer Nutrient	18.0	LB	\$2.00	\$36.00
25000500	Phosphorus Fertilizer Nutrient	18.0	LB	\$2.00	\$36.00
25000600	Potassium Fertilizer Nutrient	18.0	LB	\$2.00	\$36.00
25100127	Mulch, Method 3A	960.0	SY	\$3.00	\$2,880.00
30300001	Aggregate Subgrade Improvement	15.0	CY	\$45.00	\$675.00
35800100	Preparation of Base	4,207.0	SY	\$1.50	\$6,310.50
40200800	Aggregate Surface Course, Type B	8.0	TN	\$50.00	\$400.00
40603080	Hot-Mix Asphalt Binder Course, IL-19.0, N50	545.0	TN	\$75.00	\$40,875.00
40603335	Hot-Mix Asphalt Surface Course, Mix 'D', N50	484.0	TN	\$80.00	\$38,720.00
40800020	Bituminous Materials (Prime Coat)	947.0	LB	\$0.80	\$757.60
42300200	PCC Driveway Pavement, 6 Inch	16.0	SY	\$80.00	\$1,280.00
44000200	Driveway Pavement Removal	304.0	SY	\$10.00	\$3,040.00
44000500	Combination Concrete Curb and Gutter Removal		FT	\$30.00	
50105220	Pipe Culvert Removal		FT	\$20.00	
54213660	Precast Reinforced Concrete Flared End Sections 15"		EA	\$900.00	
542A0220	Pipe Culverts, Class A, Type 1 15"		FT	\$65.00	
542A0223	Pipe Culverts, Class A, Type 1 18"		FT	\$150.00	
60220200	Manholes, Type A, 4'-Diameter Neenah R4341-A FR&GR		EA	\$2,400.00	
60604000	Comb. Conc. Curb & Gutter, Type B-6.12 (Dowelled)		FT	\$100.00	
78000100	Thermoplastic Pavement Marking - Line 4"		FT	\$0.60	
78000650	Thermoplastic Pavement Marking - Line 24"		FT	\$10.00	
78001100	Paint Pavement Marking - Letters and Symbols		SF	\$4.50	
78001110	Paint Pavement Marking - Line 4"		FT	\$0.50	
78001130	Paint Pavement Marking - Line 6"		FT	\$0.75	
78001150	Paint Pavement Marking - Line 12"		FT	\$1.00	
78001180	Paint Pavement Marking - Line 24"		FT	\$3.50	
88600600	Detector Loop Replacement		FT	\$10.00	
LR400899	Full-Depth Reclamation, 10"	4,207.0	SY	\$2.00	\$8,414.00
X4230710	PCC Driveway Pavement, 6 Inch, Special	45.0	SY	\$90.00	\$4,050.00
XX004774	Brick Driveway Removal and Replacement		SF	\$15.00	
XX007449	Remove and Replace Concrete Edging 12" Wide	24.0	FT	\$45.00	\$1,080.00
Z0004510	Hot-Mix Asphalt Driveway Pavement, 3"	243.0	SY	\$30.00	\$7,290.00
	Partial Depth Pvt. Patches, 4," Class D, Type I-IV		SY	\$35.00	
	Flared End Section Removal		EA	\$500.00	
	Asphalt Emulsion Sealcoat, 2 Coats		SY	\$2.00	

Construction: \$119,694.60
 Contingency (7%): \$8,378.62
Total: \$128,073.22

Detailed Description:

The scope of work included with this cost estimate is full-depth reclamation (10"), undercuts - if necessary, 2-1/4" binder, 2" surface, adjustment of of driveways to match the new pavemetrn surface and shoulder restoration (seed & blanket) to an average width of 4'.

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