

**Item #10:**  
**Village Trustee Wachs**  
**Old McHenry Road Improvements & Streetscape**



**TranSystems**

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**AGENDA**

Old McHenry Road Phase 1  
Lake County Division of Transportation  
Section No. 11-00083-09-RS

February 12, 2015

**Village of Long Grove Coordination Meeting**

- I. Introduction
- II. Old McHenry Road Improvements
  - A. Preferred Alternative
  - B. Limited Sidewalk Improvements and No Streetscaping
- III. Cost Estimate
  - A. Preferred Alternative
  - B. Limited Sidewalk Improvements and No Streetscaping
  - C. Robert Parker Coffin Road Streetscaping
- IV. Village Improvements
- V. Schedule
- VI. Discussion

Old McHenry Road  
Section No. 11-00083-09-RS  
Village of Long Grove  
Phase I Study  
Lake County

**PRELIMINARY ESTIMATE OF COST**  
Roadway Reconstruction/Traffic Signal Installation/Streetscaping  
February 2015

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>COUNTY TOTAL</u>	<u>VILLAGE TOTAL</u>	<u>ITEM TOTAL</u>
1 Removal						
1a Pavement Removal - Full Depth	\$20	SQ YD	7,040	\$ 141,000	\$ -	141,000
1b Pavement Removal - Milling	\$5	SQ YD	0	\$ -	\$ -	-
1c Shoulder Removal	\$20	SQ YD	2,830	\$ 57,000	\$ -	57,000
1d Curb and Gutter Removal	\$20	FOOT	370	\$ 8,000	\$ -	8,000
1e Sidewalk Removal	\$5	SQ FT	12,140	\$ 61,000	\$ -	61,000
1f Driveway Removal	\$30	SQ YD	2,060	\$ 62,000	\$ -	62,000
1g Tree Removal (6"-15")	\$40	INCH	120	\$ 5,000	\$ -	5,000
1h Tree Removal (>15")	\$50	INCH	40	\$ 2,000	\$ -	2,000
1i Storm Sewer Removal	\$20	FOOT	1,080	\$ 22,000	\$ -	22,000
1j Culvert Removal	\$30	FOOT	240	\$ 8,000	\$ -	8,000
2 Earthwork						
2a Earth Excavation	\$35	CU YD	2,000	\$ 70,000	\$ -	70,000
2c Furnished Excavation	\$40	CU YD	1,900	\$ 76,000	\$ -	76,000
2b Removal and Disposal of Unsuitable Materials	\$40	CU YD	1,259	\$ 51,000	\$ -	51,000
2d Undercut and Aggregate Subgrade Improvement	\$80	CU YD	0	\$ -	\$ -	-
3 Landscaping						
3a Seeding/Sodding and Restoration	\$15	SQ YD	6,890	\$ 104,000	\$ -	104,000
3b Trees	\$800	EACH	15	\$ 12,000	\$ -	12,000
4 Drainage						
4a Culverts including End Sections and TBF	\$100	FOOT	70	\$ 7,000	\$ -	7,000
4b Storm Sewers, Structures, and TBF	\$150	FOOT	2,600	\$ 390,000	\$ -	390,000
4c Underdrains	\$20	FOOT	4,576	\$ 92,000	\$ -	92,000
4d Water Quality Treatment Structure	\$35,000	EACH	1	\$ 35,000	\$ -	35,000
5 Erosion Control	10	%	Drainage & Landscaping	\$ 64,000	\$ -	64,000
6 Pavement						
6a Pavement including Aggregate Subgrade Improvement	\$90	SQ YD	8,210	\$ 739,000	\$ -	739,000
6b Aggregate Shoulder	\$25	SQ YD	220	\$ 6,000	\$ -	6,000
6c Bituminous Shoulder	\$35	SQ YD	60	\$ 3,000	\$ -	3,000
6d Mail Box Turn Out	\$180	SQ YD	20	\$ 4,000	\$ -	4,000
6e Pavement - Widening	\$80	SQ YD	0	\$ -	\$ -	-
6f Pavement - Resurfacing	\$25	SQ YD	0	\$ -	\$ -	-
6g Driveways/Parking Lots including Temporary Access	\$70	SQ YD	1,140	\$ 80,000	\$ -	80,000
6h Curb and Gutter	\$25	FOOT	4,420	\$ 111,000	\$ -	111,000
6i Pavement Patching	\$20	SQ YD	260	\$ 6,000	\$ -	6,000
7 Pavement Marking	\$2	FOOT	10,100	\$ 21,000	\$ -	21,000
8 Signing including Removal and Relocation	\$25,000	L SUM	1	\$ 25,000	\$ -	25,000
9 Traffic Control						
9a Traffic Control including Detour Signing	3	%	of Roadway Construction	\$ 151,000	\$ -	151,000
9b Temporary Pavement Marking including Removal	\$3	FOOT	39,600	\$ 119,000	\$ -	119,000
9c Temporary Pavement including Removal	\$55	SQ YD	3,833	\$ 211,000	\$ -	211,000
10 Traffic Signals						
10a Traffic Signal - Robert Parker Coffin Road	\$225,000	EACH	1	\$ 225,000	\$ -	225,000
10b Emergency Vehicle Pre-emption	\$6,000	EACH	1	\$ 6,000	\$ -	6,000
10c Combination Lighting	\$25,000	L SUM	1	\$ 25,000	\$ -	25,000
10d Interconnect	\$25,000	L SUM	1	\$ 35,000	\$ -	35,000
11 Miscellaneous						
11a Mobilization	6	%	of Roadway Construction	\$ 309,000	\$ -	309,000
11b Construction Layout	2	%	of Roadway Construction	\$ 103,000	\$ -	103,000
11c Field Office	3,000	MONTH	9	\$ 27,000	\$ -	27,000
12 Incidentals						
12a PCC Sidewalk	\$10	SQ FT	3,540	\$ 29,000	\$ 7,000	36,000
12b Multi-Use Path	\$30	SQ YD	910	\$ 23,000	\$ 5,000	28,000
12c Streetscaping						
Downtown Lighting	\$475	FOOT	2,000	\$ -	\$ 950,000	950,000
Brick Paver - Sidewalk	\$20	SQ FT	23,180	\$ 186,000	\$ 278,000	464,000
Brick Paver - Non-Sidewalk	\$20	SQ FT	9,280	\$ -	\$ 186,000	186,000
Trash Receptacles/Recycling Bins	\$1,500	EACH	6	\$ -	\$ 9,000	9,000
Wayfinding Signs	\$6,500	EACH	4	\$ -	\$ 26,000	26,000
Planter Box	\$150	SFT	1,440	\$ -	\$ 216,000	216,000
Bench	\$1,800	EACH	7	\$ -	\$ 13,000	13,000
13 Structures						
13a Cast-In-Place Retaining Wall	\$120	SQ FT	2,364	\$ 284,000	\$ -	284,000
13b Modular Block Retaining Wall	\$100	SQ FT	0	\$ -	\$ -	-
14 Utility Adjustments	\$12,000	L SUM	1	\$ -	\$ 12,000	12,000
15 Contingency	20	%	of Roadway Construction	\$ 650,000	\$ 377,000	1,027,000
<b>TOTAL CONSTRUCTION COST (rounded to \$10,000)</b>				<b>\$ 4,650,000</b>	<b>\$ 2,080,000</b>	<b>\$ 6,730,000</b>
<b>TOTAL CONSTRUCTION COST IN 2019 (assuming 3% annual inflation and rounded to \$10,000)</b>				<b>\$ 5,390,000</b>	<b>\$ 2,420,000</b>	<b>\$ 7,810,000</b>

Old McHenry Road  
Section No. 11-00083-09-RS  
Village of Long Grove  
Phase I Study  
Lake County

PRELIMINARY ESTIMATE OF COST  
Roadway Reconstruction/Traffic Signal Installation/Streetscaping  
February 2015

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>COUNTY TOTAL</u>	<u>VILLAGE TOTAL</u>	<u>ITEM TOTAL</u>
<i>Other Items</i>						
16 Engineering						
16a Phase I Engineering	\$589,862	L SUM	1	\$ 590,000	-	\$ 590,000
16b Phase II Engineering	\$828,796	L SUM	1	\$ 587,000	\$ 242,000	\$ 829,000
16c Phase III Engineering	10	%	of Construction	\$ 539,000	\$ 242,000	\$ 781,000
17 Right-of-Way						
17a Right-of-Way	\$10	SF	246	\$ 3,000	-	\$ 3,000
17b Temporary Easements	\$2	SF	17,099	\$ 35,000	-	\$ 35,000
<b>TOTAL OTHER COSTS (rounded to \$10,000)</b>				<b>\$ 1,750,000</b>	<b>\$ 490,000</b>	<b>\$ 2,240,000</b>
<b>TOTAL PROJECT COST (rounded to \$10,000)</b>				<b>\$ 7,140,000</b>	<b>\$ 2,910,000</b>	<b>\$ 10,050,000</b>

Notes: The unit prices are in 2014 construction dollars  
Undercut and replacement quantities are unknown at this time since geotechnical studies have not been finished.  
The estimate does not include any costs associated with utility improvements such as water main installation, sanitary sewer replacement, and burial of electric lines. The Village would be responsible for 100% of these costs along with the engineering cost related to these items.  
Unit prices for land acquisition are not based on property appraisals and are subject to change.

Old McHenry Road  
Section No. 11-00083-09-RS  
Village of Long Grove  
Phase I Study  
Lake County

PRELIMINARY ESTIMATE OF COST  
Roadway Reconstruction/Traffic Signal Installation/Limited Sidewalk Improvements/No Streetscaping  
February 2015

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>COUNTY TOTAL</u>	<u>VILLAGE TOTAL</u>	<u>ITEM TOTAL</u>
1 Removal						
1a Pavement Removal - Full Depth	\$20	SQ YD	7,040	\$ 141,000	\$ -	\$ 141,000
1b Pavement Removal - Milling	\$5	SQ YD	0	\$ -	\$ -	\$ -
1c Shoulder Removal	\$20	SQ YD	2,830	\$ 57,000	\$ -	\$ 57,000
1d Curb and Gutter Removal	\$20	FOOT	370	\$ 8,000	\$ -	\$ 8,000
1e Sidewalk Removal	\$5	SQ FT	6,590	\$ 33,000	\$ -	\$ 33,000
1f Driveway Removal	\$30	SQ YD	2,060	\$ 62,000	\$ -	\$ 62,000
1g Tree Removal (6"-15")	\$40	INCH	120	\$ 5,000	\$ -	\$ 5,000
1h Tree Removal (>15")	\$50	INCH	40	\$ 2,000	\$ -	\$ 2,000
1i Storm Sewer Removal	\$20	FOOT	1,080	\$ 22,000	\$ -	\$ 22,000
1j Culvert Removal	\$30	FOOT	240	\$ 8,000	\$ -	\$ 8,000
2 Earthwork						
2a Earth Excavation	\$35	CU YD	2,000	\$ 70,000	\$ -	\$ 70,000
2c Furnished Excavation	\$40	CU YD	1,900	\$ 76,000	\$ -	\$ 76,000
2b Removal and Disposal of Unsuitable Materials	\$40	CU YD	1,259	\$ 51,000	\$ -	\$ 51,000
2d Undercut and Aggregate Subgrade Improvement	\$80	CU YD	0	\$ -	\$ -	\$ -
3 Landscaping						
3a Seeding/Sodding and Restoration	\$15	SQ YD	8,750	\$ 132,000	\$ -	\$ 132,000
3b Trees	\$800	EACH	15	\$ 12,000	\$ -	\$ 12,000
4 Drainage						
4a Culverts including End Sections and TBF	\$100	FOOT	70	\$ 7,000	\$ -	\$ 7,000
4b Storm Sewers, Structures, and TBF	\$150	FOOT	2,600	\$ 390,000	\$ -	\$ 390,000
4c Underdrains	\$20	FOOT	4,576	\$ 92,000	\$ -	\$ 92,000
4d Water Quality Treatment Structure	\$35,000	EACH	1	\$ 35,000	\$ -	\$ 35,000
5 Erosion Control	10	%	Drainage & Landscaping	\$ 67,000	\$ -	\$ 67,000
6 Pavement						
6a Pavement including Aggregate Subgrade Improvement	\$90	SQ YD	8,210	\$ 739,000	\$ -	\$ 739,000
6b Aggregate Shoulder	\$25	SQ YD	220	\$ 6,000	\$ -	\$ 6,000
6c Bituminous Shoulder	\$35	SQ YD	60	\$ 3,000	\$ -	\$ 3,000
6d Mail Box Turn Out	\$180	SQ YD	20	\$ 4,000	\$ -	\$ 4,000
6e Pavement - Widening	\$80	SQ YD	0	\$ -	\$ -	\$ -
6f Pavement - Resurfacing	\$25	SQ YD	0	\$ -	\$ -	\$ -
6g Driveways/Parking Lots including Temporary Access	\$70	SQ YD	1,440	\$ 101,000	\$ -	\$ 101,000
6h Curb and Gutter	\$25	FOOT	4,420	\$ 111,000	\$ -	\$ 111,000
6i Pavement Patching	\$20	SQ YD	260	\$ 6,000	\$ -	\$ 6,000
7 Pavement Marking	\$2	FOOT	10,100	\$ 21,000	\$ -	\$ 21,000
8 Signing including Removal and Relocation	\$25,000	L SUM	1	\$ 25,000	\$ -	\$ 25,000
9 Traffic Control						
9a Traffic Control including Detour Signing	5	%	of Roadway Construction	\$ 156,000	\$ -	\$ 156,000
9b Temporary Pavement Marking including Removal	\$3	FOOT	39,600	\$ 119,000	\$ -	\$ 119,000
9c Temporary Pavement including Removal	\$55	SQ YD	3,833	\$ 211,000	\$ -	\$ 211,000
10 Traffic Signals						
10a Traffic Signal - Robert Parker Coffin Road	\$225,000	EACH	1	\$ 225,000	\$ -	\$ 225,000
10b Emergency Vehicle Pre-emption	\$6,000	EACH	1	\$ 6,000	\$ -	\$ 6,000
10c Combination Lighting	\$25,000	L SUM	1	\$ 25,000	\$ -	\$ 25,000
10d Interconnect	\$25,000	L SUM	1	\$ 35,000	\$ -	\$ 35,000
11 Miscellaneous						
11a Mobilization	6	%	of Roadway Construction	\$ 194,000	\$ -	\$ 194,000
11b Construction Layout	2	%	of Roadway Construction	\$ 65,000	\$ -	\$ 65,000
11c Field Office	3,000	MONTH	9	\$ 27,000	\$ -	\$ 27,000
12 Incidentals						
12a PCC Sidewalk	\$10	SQ FT	9,170	\$ 74,000	\$ 18,000	\$ 92,000
12b Multi-Use Path	\$30	SQ YD	0	\$ -	\$ -	\$ -
12c Streetscaping						
Downtown Lighting	\$475	FOOT	0	\$ -	\$ -	\$ -
Brick Paver - Sidewalk	\$20	SQ FT	0	\$ -	\$ -	\$ -
Brick Paver - Non-Sidewalk	\$20	SQ FT	0	\$ -	\$ -	\$ -
Trash Receptacles/Recycling Bins	\$1,500	EACH	0	\$ -	\$ -	\$ -
Wayfinding Signs	\$6,500	EACH	0	\$ -	\$ -	\$ -
Planter Box	\$150	SFT	0	\$ -	\$ -	\$ -
Bench	\$1,800	EACH	0	\$ -	\$ -	\$ -
13 Structures						
13a Cast-In-Place Retaining Wall	\$120	SQ FT	1,566	\$ 188,000	\$ -	\$ 188,000
13b Modular Block Retaining Wall	\$100	SQ FT	0	\$ -	\$ -	\$ -
14 Utility Adjustments	\$12,000	L SUM	1	\$ -	\$ 12,000	\$ 12,000
15 Contingency	20	%	of Roadway Construction	\$ 640,000	\$ 6,000	\$ 646,000
<b>TOTAL CONSTRUCTION COST (rounded to \$10,000)</b>				<b>\$ 4,250,000</b>	<b>\$ 40,000</b>	<b>\$ 4,290,000</b>
<b>TOTAL CONSTRUCTION COST IN 2019 (assuming 3% annual inflation and rounded to \$10,000)</b>				<b>\$ 4,930,000</b>	<b>\$ 50,000</b>	<b>\$ 4,980,000</b>

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Lake County

PRELIMINARY ESTIMATE OF COST  
Roadway Reconstruction/Traffic Signal Installation/Limited Sidewalk Improvements/No Streetscaping  
February 2015

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>COUNTY TOTAL</u>	<u>VILLAGE TOTAL</u>	<u>ITEM TOTAL</u>
<i>Other Items</i>						
16 Engineering						
16a Phase I Engineering	\$589,862	L SUM	1	\$ 590,000	\$ -	\$ 590,000
16b Phase II Engineering	\$828,796	L SUM	1	\$ 824,000	\$ 5,000	\$ 829,000
16c Phase III Engineering	10	%	of Construction	\$ 493,000	\$ 5,000	\$ 498,000
17 Right-of-Way						
17a Right-of-Way	\$10	SF	246	\$ 3,000	\$ -	\$ 3,000
17b Temporary Easements	\$2	SF	17,099	\$ 35,000	\$ -	\$ 35,000
<b>TOTAL OTHER COSTS (rounded to \$10,000)</b>				<b>\$ 1,950,000</b>	<b>\$ 10,000</b>	<b>\$ 1,960,000</b>
<b>TOTAL PROJECT COST (rounded to \$10,000)</b>				<b>\$ 6,880,000</b>	<b>\$ 60,000</b>	<b>\$ 6,940,000</b>

Notes: The unit prices are in 2014 construction dollars  
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The estimate does not include any costs associated with utility improvements such as water main installation, sanitary sewer replacement, and burial of electric lines. The Village would be responsible for 100% of these costs along with the engineering cost related to these items.  
Unit prices for land acquisition are not based on property appraisals and are subject to change.

Old McHenry Road  
Section No. 11-00083-09-RS  
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**PRELIMINARY ESTIMATE OF COST**  
**Robert Parker Coffin Road Streetscaping**  
**February 2015**

<u>ITEMS</u>	<u>UNIT PRICE</u>	<u>UNIT</u>	<u>QUANTITY</u>	<u>VILLAGE TOTAL</u>	<u>ITEM TOTAL</u>
1 Removal					
1a Shoulder Removal	\$20	SQ YD	390	\$ 8,000	\$ 8,000
1b Sidewalk Removal	\$5	SQ FT	4,140	\$ 21,000	\$ 21,000
1c Driveway Removal	\$30	SQ YD	820	\$ 25,000	\$ 25,000
1d Tree Removal (6"-15")	\$40	INCH	0	\$ -	\$ -
1e Tree Removal (>15")	\$50	INCH	0	\$ -	\$ -
2 Earthwork					
2a Earth Excavation	\$35	CU YD	340	\$ 12,000	\$ 12,000
2c Furnished Excavation	\$40	CU YD	340	\$ 14,000	\$ 14,000
2b Removal and Disposal of Unsuitable Materials	\$40	CU YD	170	\$ 7,000	\$ 7,000
2d Undercut and Aggregate Subgrade Improvement	\$80	CU YD	0	\$ -	\$ -
3 Landscaping					
3a Seeding/Sodding and Restoration	\$15	SQ YD	350	\$ 6,000	\$ 6,000
3b Trees	\$800	EACH	0	\$ -	\$ -
4 Drainage (Storm Sewers, Structures, and TBF)	\$150	FOOT	90	\$ 14,000	\$ 14,000
5 Erosion Control	10	%	Drainage & Landscaping	\$ 2,000	\$ 2,000
6 Pavement					
6a Driveways/Parking Lots including Temporary Access	\$70	SQ YD	820	\$ 58,000	\$ 58,000
6b Curb and Gutter	\$25	FOOT	1,840	\$ 46,000	\$ 46,000
6c Pavement Patching	\$20	SQ YD	60	\$ 2,000	\$ 2,000
7 Pavement Marking	\$2	FOOT	1,840	\$ 4,000	\$ 4,000
8 Signing including Removal and Relocation	\$25,000	L SUM	1	\$ 25,000	\$ 25,000
9 Traffic Control					
9a Traffic Control including Detour Signing	5	%	of Roadway Construction	\$ 92,000	\$ 92,000
9b Temporary Pavement Marking including Removal	\$3	FOOT	0	\$ -	\$ -
10 Miscellaneous					
10a Mobilization	6	%	of Roadway Construction	\$ 110,000	\$ 110,000
10b Construction Layout	2	%	of Roadway Construction	\$ 37,000	\$ 37,000
10c Field Office	3,000	MONTH	9	\$ 27,000	\$ 27,000
11 Streetscaping					
11a Downtown Lighting	\$475	FOOT	1,840	\$ 874,000	\$ 874,000
11b Brick Paver - Sidewalk	\$20	SQ FT	18,400	\$ 368,000	\$ 368,000
11c Brick Paver - Non-Sidewalk	\$20	SQ FT	3,680	\$ 74,000	\$ 74,000
11d Trash Receptacles/Recycling Bins	\$1,500	EACH	4	\$ 6,000	\$ 6,000
11e Wayfinding Signs	\$6,500	EACH	2	\$ 13,000	\$ 13,000
11f Planter Box	\$150	SFT	720	\$ 108,000	\$ 108,000
11g Bench	\$1,800	EACH	4	\$ 8,000	\$ 8,000
12 Structures (Cast-In-Place Retaining Wall)	\$120	SQ FT	800	\$ 96,000	\$ 96,000
13 Utility Adjustments	\$5,000	L SUM	1	\$ 5,000	\$ 5,000
14 Contingency	20	%	of Roadway Construction	\$ 365,000	\$ 365,000
<b>TOTAL CONSTRUCTION COST (rounded to \$10,000)</b>				<b>\$ 2,430,000</b>	<b>\$ 2,430,000</b>
<b>TOTAL CONSTRUCTION COST IN 2019 (assuming 3% annual inflation and rounded to \$10,000)</b>				<b>\$ 2,740,000</b>	<b>\$ 2,740,000</b>
<b>Other Items</b>					
15 Engineering					
15a Phase I Engineering	5	%	of Construction	\$ 137,000	\$ 137,000
15b Phase II Engineering	10	%	of Construction	\$ 274,000	\$ 274,000
15c Phase III Engineering	10	%	of Construction	\$ 274,000	\$ 274,000
16 Right-of-Way				<i>Not Included</i>	<i>Not Included</i>
<b>TOTAL OTHER COSTS (rounded to \$10,000)</b>				<b>\$ 690,000</b>	<b>\$ 690,000</b>
<b>TOTAL PROJECT COST (rounded to \$10,000)</b>				<b>\$ 3,430,000</b>	<b>\$ 3,430,000</b>

Notes: The unit prices are in 2014 construction dollars

Undercut and replacement quantities are unknown at this time since geotechnical studies have not been finished.

The estimate does not include any costs associated with utility improvements such as water main installation, sanitary sewer replacement, and burial of electric lines. The Village would be responsible for 100% of these costs along with the engineering cost related to these items.

Costs for land acquisition are not included. It is anticipated that temporary easements and/or right-of-way may be required once detailed studies are completed due to the tight corridor within the downtown area.

Design of the streetscape elements along Robert Parker Coffin Road has not been completed and will be difficult due to the tight corridor within the downtown area. The total cost for installing streetscape elements along Robert Parker Coffin Road may be adjusted once the design has been completed.