

## Water Main Inventory

The City of Grosse Pointe Woods water main system consists of approximately 55 miles of water mains varying in size from 4" to 24" diameter. Pipe types consist of cast iron, ductile iron, high density polyethylene and concrete. The system is evaluated based on pipe age, size, type, break history and flow characteristics. The water main rating corresponds with the anticipated number of years prior to necessary replacement. As of the last rating (Fall, 2013) the ratings broke down as follows:

1 to 8 years:	6.8 miles
9 to 20 years:	13.5 miles
21 to 40 years:	12.9 miles
41+ years:	21.3 miles

Other than routine maintenance such as exercising valves and flowing hydrants performed by DPW personnel, replacement is the primary method for addressing aged water mains. Replacement can be completed using open cut or many trenchless alternatives such as pipe bursting, directional drilling or lining. Generally, costs are similar for each alternative.

For the sake of budgeting, costs provided in the inventory are for open cut replacement. The budget unit price used is \$190 per lineal foot which includes construction, engineering, administration, etc. This equates to roughly \$1.0 million per mile.

**Section B (1 to 8 Year Program)****City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

<b>Street Name</b>	<b>From</b>	<b>To</b>	<b>Pipe Length</b>	<b>Pipe Size</b>	<b>Yr Built</b>	<b>Repl Date</b>	<b>Repl Cost</b>	<b>Recorded Breaks</b>
Anita Avenue	Mack Avenue	Charlevoix Avenue	2,000	6"	1934	1-8	\$380,000	12
Anita Avenue	Charlevoix Avenue	Marter Road	950	6"	1934	1-8	\$180,500	9
Baltree Court	Fairholme Road	S. City Limits	230	6"	1944	1-8	\$43,700	1
Berns Court	Fairholme Road	S. City Limits	280	6"	1944	1-8	\$53,200	7
Bournemouth Road	Leslie Avenue	Mack Avenue	1,760	8"	1944	1-8	\$334,400	14
Brys Drive	Mack Avenue	Marter Road	3,160	6"	1934	1-8	\$600,400	15
Clairview Court	Torrey Road	Torrey Road	730	6"	1944	1-8	\$138,700	6
Elford Court	Torrey Road	Torrey Road	1,160	6"	1944	1-8	\$220,400	6
Emory Court	Torrey Road	Torrey Road	1,280	6"	1944	1-8	\$243,200	10
Fairholme Road	Mack Avenue	W. of Milk River	2,215	8"	1944	1-8	\$420,850	16
Goethe Avenue	N. of Aline Drive	N. City Limits	350	6"	1964	1-8	\$66,500	2
Hampton Road	Morningside Drive	E. City Limits	750	6"	1934	1-8	\$142,500	1
Hampton Road	Wedgewood Drive	Morningside Drive	850	6"	1934	1-8	\$161,500	4
Hawthorne Avenue	Marter	E. City Limits	1,600	8"	1934	1-8	\$304,000	8
Higbie Place (N & S)	Morningside Drive	Morningside Drive	1,090	6"	1954	1-8	\$207,100	6
Hollywood Avenue	Goethe Avenue	Marter Road	1,900	8"	1954	1-8	\$361,000	21
Kings Court	Cook Road	Cook Road	1,200	6"	1944	1-8	\$228,000	6
Lake Shore Lane	Morningside Drive	E. City Limits	780	8"	1954	1-8	\$148,200	4
Lee Court	Vernier Road	N. City Limits	350	6"	1964	1-8	\$66,500	2
Linville Avenue	Bournemouth Road	S. City Limits	600	8"	1944	1-8	\$114,000	5
Marford Court	Fairholme Road	S. City Limits	230	6"	1944	1-8	\$43,700	3
Marion Court	River Road	Dead End	350	6"	1964	1-8	\$66,500	3
Marter Road	Brys	N. of Aline Drive	200	12"	1934	1-8	\$38,000	1
North Brys Drive	Wedgewood Drive	Morningside	800	6"	1964	1-8	\$152,000	3
Peach Tree Lane	Thorn Tree Road	Cook Road	300	6"	1954	1-8	\$57,000	1
Pear Tree Lane	Wedgewood Drive	Thorn Tree Road	340	6"	1954	1-8	\$64,600	2

**Section B (1 to 8 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

Street Name	From	To	Pipe Length	Pipe Size	Yr Built	Repl Date	Repl Cost	Recorded Breaks
Prestwick Road	Leslie Avenue	Bramcaster Road	200	8"	1934	1-8	\$38,000	2
Prestwick Road	Bramcaster Road	W. City Limits	1,370	8"	1934	1-8	\$260,300	8
Severn Road	W. City Limits	E of Eastbourne Road	1,050	6"	1934	1-8	\$199,500	9
Severn Road	E. of Eastbourne Road	Mack Avenue	1,300	8"	1934	1-8	\$247,000	8
South Renaud Road	Mack Avenue	E. of Milk River	2,540	8"	1944	1-8	\$482,600	18
South Rosedale Court	N. City Limits	Morningside Drive	850	6"	1964	1-8	\$161,500	4
Vernier Road	Mack Avenue	Sunningdale Drive	450	6"	1954	1-8	\$85,500	3
Vernier Road-S	W. City Limits	Mack Avenue	1,650	6"	1954	1-8	\$313,500	5
Wedgewood Drive	Cook Road	Doyle Place East	550	8"	1954	1-8	\$104,500	4
Wedgewood Drive	Doyle Place East	S. of Shoreham Road	500	6"	1954	1-8	\$95,000	2
<b>Total Cost:</b>							<b>\$6,823,850</b>	

**Section B (9 to 20 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

Street Name	From	To	Pipe Length	Pipe Size	Yr Built	Repl Date	Repl Cost	Recorded Breaks
Aline Avenue	Mack Avenue	E. of Marter Road	3,180	8"	1954	9-20	\$604,200	9
Anita Avenue	Marter Road	E. City Limits	3,900	8"	1954	9-20	\$741,000	4
Ballantyne Ct.(E&W)	Fairford Avenue	Fairford Avenue	1,320	6"	1954	9-20	\$250,800	3
Birch Lane	Fairford Avenue	Morningside Drive	1,130	6"	1954	9-20	\$214,700	3
Blairmoor Avenue	Goethe Avenue	Edmundton Avenue	2,660	6"	1964	9-20	\$505,400	5
Briarcliff Drive	River Road	Morningside	1,700	8"	1964	9-20	\$323,000	4
Canterbury Drive	River Road	Van "K" Drive	2,850	6"	1964	9-20	\$541,500	9
Doyle Court	Fairford Avenue	North End	530	6"	1954	9-20	\$100,700	1
Doyle Place West	Fairford Avenue	Wedgewood Drive	900	8"	1954	9-20	\$171,000	1
Doyle Place West	Doyle Place East	Wedgewood Drive	500	8"	1954	9-20	\$95,000	2
Eastbrook Court	Yorktown Road	N. City Limits	380	6"	1964	9-20	\$72,200	1
Eight Mile Road	W. City Limits	Brys Drive	600	6"	1964	9-20	\$114,000	1
Fairford Road	E. of Morningside Drive	E. City Limits	650	12"	1954	9-20	\$123,500	1
Fairholme Road	W. of Milk River Bridge	Fairford Road	1,960	8"	1944	9-20	\$372,400	9
Ghesquiere Court	Fairholme Road	S. City Limits	280	6"	1944	9-20	\$53,200	0
Glen Arbor Lane	Morningside Drive	E. of Morningside Drive	500	6"	1954	9-20	\$95,000	1
Hampton Road	Mack Avenue	Marter Road	3,100	8"	1934	9-20	\$589,000	10
Hawthorne Road	Mack Avenue	Goethe Avenue	1,150	6"	1934	9-20	\$218,500	0

**Section B (9 to 20 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

Street Name	From	To	Pipe Length	Pipe Size	Yr Built	Repl Date	Repl Cost	Recorded Breaks
Hidden Lane	E. City Limits	W. of Wedgewood Drive	2,360	8"	1954	9-20	\$448,400	5
Hollywood Avenue	Mack Avenue	Goethe Avenue	3,110	8"	1954	9-20	\$590,900	3
Hollywood Avenue	Wedgewood Drive	E. City Limits	1,650	8"	1954	9-20	\$313,500	6
Huntington Boulevard	Mack Avenue	Holiday Avenue	1,150	8"	1954	9-20	\$218,500	4
Huntington Boulevard	W. City Limits	Mack Avenue	1,870	6"	1964	9-20	\$355,300	1
Lancaster Avenue	W. City Limits	Mack Avenue	1,670	8"	1934	9-20	\$317,300	3
Leslie Avenue	Bournemouth Road	Prestwick Road	640	8"	1954	9-20	\$121,600	0
Manchester Boulevard	W. City Limits	Mack Avenue	2,030	8"	1964	9-20	\$385,700	4
Morningside Drive	Hampton Road	Moorland Drive	400	4"	1964	9-20	\$76,000	
North Brys Drive	River Road	Wedgewood Drive	1,500	6"	1964	9-20	\$285,000	5
North Brys Drive	Morningside	Van "K" Drive	660	8"	1964	9-20	\$125,400	
North Renaud	Morningside	E. City Limits	650	8"	1954	9-20	\$123,500	
North Rosedale Court	Morningside Drive	Van "K" Drive	680	8"	1964	9-20	\$129,200	2
North Rosedale Court	N. City Limits	Morningside Drive	200	8"	1964	9-20	\$38,000	3
Norton Court	Torrey Lane	N. City Limits	220	8"	1984	9-20	\$41,800	2
Parkway Drive	Marter Road	River Road	400	8"	1964	9-20	\$76,000	1
Perrien Road	W. of Morningside Drive	Van "K" Drive	1,100	6"	1964	9-20	\$209,000	2
Prestwick Road	Eastbourne Road	Leslie Avenue	1,750	8"	1934	9-20	\$332,500	

**Section B (9 to 20 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

Street Name	From	To	Pipe Length	Pipe Size	Yr Built	Repl Date	Repl Cost	Recorded Breaks
Prestwick Road	Eastbourne Road	Mack Avenue	1,200	8"	1934	9-20	\$228,000	
River Road	Brys Drive	North Sub. Line	500	8"	1964	9-20	\$95,000	1
River Road	Moorland Drive	N. City Limits	580	8"	1964	9-20	\$110,200	1
Roslyn Road	E. of Milk River Bridge	Wedgewood Drive	1,500	6"	1964	9-20	\$285,000	2
Roslyn Road	Marter Road	E. of Milk River Bridge	1,670	6"	1964	9-20	\$317,300	4
Saddle Lane North	Saddle Lane South	Saddle Lane	640	8"	1964	9-20	\$121,600	1
Shoreham Court	Wedgewood Drive	West End	960	8"	1954	9-20	\$182,400	1
Shoreham Road	Wedgewood Drive	E. City Limits	1,660	8"	1954	9-20	\$315,400	2
South Brys Drive	Morningside Drive	Van "K" Drive	625	6"	1964	9-20	\$118,750	2
South Renaud Road	E. of Milk River	North Renaud Road	2,010	8"	1954	9-20	\$381,900	4
South Renaud Road	W. of Wedgewood Drive	North Renaud Road	690	6"	1954	9-20	\$131,100	1
South Rosedale Court	Morningside Drive	Van "K" Drive	680	8"	1964	9-20	\$129,200	6
Thorn Tree Road	Morningside Drive	Cook Road	900	8"	1954	9-20	\$171,000	4
Vernier Road-N	W. City Limits	Mack Avenue	1,650	6"	1954	9-20	\$313,500	4
Wedgewood Drive	South Brys Drive	North Brys Drive	340	8"	1964	9-20	\$64,600	1
Wedgewood Drive	Canterbury	Woods Ln	500	8"	1964	9-20	\$95,000	1
Williams Court	Fairford Avenue	Fairford Avenue	1,400	6"	1954	9-20	\$266,000	1
Woods Lane	River Road	Van "K" Drive	2,680	6"	1964	9-20	\$509,200	5

**Section B (9 to 20 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

<b>Street Name</b>	<b>From</b>	<b>To</b>	<b>Pipe Length</b>	<b>Pipe Size</b>	<b>Yr Built</b>	<b>Repl Date</b>	<b>Repl Cost</b>	<b>Recorded Breaks</b>
Yorktown Road	N. City Limits	Marter Road	1,515	8"	1964	9-20	\$287,850	3
<b>Total Cost:</b>							\$13,495,700	

**Section B (21 to 40 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

Street Name	From	To	Pipe Length	Pipe Size	Yr Built	Repl Date	Repl Cost	Recorded Breaks
Avon Court	Wedgewood Avenue	Dead End	390	6"	1964	21-40	\$74,100	
Blairmoor Avenue	River Road	Van "K" Drive	2,910	8"	1964	21-40	\$552,900	2
Bramcaster Road	Allard Avenue	N. of Huntington Blvd.	1,100	8"	1964	21-40	\$209,000	
Briarcliff Drive	Morningside	Van "K" Drive	700	6"	1964	21-40	\$133,000	
Brys Drive	Marter Road	River Road	800	8"	1964	21-40	\$152,000	
Centerbrook Court	Yorktown Road	N. City Limits	270	6"	1964	21-40	\$51,300	
Chester Avenue	S. of Stanhope Ave.	N. of Allard Avenue	270	8"	1969	21-40	\$51,300	
Christine Court	Vernier Road	N. City Limits	350	8"	1964	21-40	\$66,500	
Cook Road	Morningside Drive	E. City Limits	200	8"	1954	21-40	\$38,000	
Cook Road	Wedgewood Drive	Morningside	1,650	12"	1954	21-40	\$313,500	1
Cook Road	Chalfonte Avenue	Wedgewood Road	2,500	12"	1954	21-40	\$475,000	1
Cook Road	Holiday Road	Chalfonte Avenue	800	12"	1954	21-40	\$152,000	
Coventry Lane	Morningside Drive	E. of Morningside Drive	500	6"	1954	21-40	\$95,000	
Crescent Lane	Cook Road	Cook Road	1,230	6"	1964	21-40	\$233,700	
Cul De Sac	Canterbury Drive	N. City Limits	250	6"	1964	21-40	\$47,500	
Cul De Sac	Canterbury Drive	N. City Limits	250	6"	1964	21-40	\$47,500	
Cul De Sac	Canterbury Drive	N. City Limits	250	6"	1964	21-40	\$47,500	
Dorthen Avenue	Mack Avenue	Holiday Avenue	1,120	12"	1954	21-40	\$212,800	



**Section B (21 to 40 Year Program)****City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

<b>Street Name</b>	<b>From</b>	<b>To</b>	<b>Pipe Length</b>	<b>Pipe Size</b>	<b>Yr Built</b>	<b>Repl Date</b>	<b>Repl Cost</b>	<b>Recorded Breaks</b>
Doyle Place East	Fairford Avenue	Doyle Place West	520	8"	1954	21-40	\$98,800	
Edmundton Drive	N. City Limits	Blairmoor Court	2,410	20"	1974	21-40	\$457,900	2
Edshire Place	Cook Road	Pear Tree Lane	580	6"	1954	21-40	\$110,200	
Eight Mile Road	East of Mack	Goethe Avenue	1,380	20"	1954	21-40	\$262,200	
Eight Mile Road	Goethe Avenue	Yorktown Road	300	8"	1954	21-40	\$57,000	
Eight Mile Road	Mack Avenue	E. of Mack Avenue	1,380	20"	1954	21-40	\$262,200	
Eight Mile Road	W. City Limits	Brys Drive	700	24"	1964	21-40	\$133,000	
Eight Mile Road	Goethe Avenue	Yorktown Road	250	20"	1954	21-40	\$47,500	
Fairford Road	Fairholme Road	E. of Morningside Drive	2,750	12"	1954	21-40	\$522,500	1
Fairway Drive	Dead End	Lochmoor Boulevard	1,800	8"	1999	21-40	\$342,000	2
Fairway Drive	Dead End	Lochmoor Boulevard	300	12"	1984	21-40	\$57,000	
Fairway Drive	Lochmoor Boulevard	Sunningdale Drive	450	12"	1974	21-40	\$85,500	
Hampton Road	Marter Road	E. of Milk River Bridge	600	8"	1934	21-40	\$114,000	
Hampton Road	E. of Milk River Bridge	Wedgewood Drive	1,800	8"	1964	21-40	\$342,000	
Helen Avenue	Lochmoor Boulevard	Vernier Road	1,515	8"	1986	21-40	\$287,850	1
Hollywood Avenue	Marter Road	Wedgewood Drive	2,200	8"	1954	21-40	\$418,000	1
Jackson Avenue	S. of Kenmore Drive	Lochmoor Boulevard	150	6"	1964	21-40	\$28,500	
Marter Road	N. of Aline Drive	N. City Limits	950	12"	1964	21-40	\$180,500	

**Section B (21 to 40 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

Street Name	From	To	Pipe Length	Pipe Size	Yr Built	Repl Date	Repl Cost	Recorded Breaks
Moorland Avenue	River Road	E. City Limits	850	16"	1964	21-40	\$161,500	
Morningside Drive	Sunningdale Drive	Vernier Road	1,600	12"	1954	21-40	\$304,000	1
Morningside Drive	Vernier Road	Hampton Road	1,490	12"	1964	21-40	\$283,100	
Morningside Drive	Moorland Avenue	N. City Limits	1,100	8"	1964	21-40	\$209,000	
Morningside Drive	Lochmoor Boulevard	Sunningdale Drive	1,974	12"	1974	21-40	\$375,060	
Morningside Drive	South Oxford Road	Lochmoor Boulevard	1,400	12"	1944	21-40	\$266,000	
Morningside Drive	Cook Road	South Oxford Drive	3,000	12"	1944	21-40	\$570,000	1
Norwood Drive	Mack Avenue	W. City Limits	1,637	8"	2000	21-40	\$311,030	1
Raymond Drive	S. City Limits	Bournemouth Road	600	8"	1944	21-40	\$114,000	
River Road	North Sub. Line	Parkway Drive	500	8"	1964	21-40	\$95,000	
River Road	Moorland Drive	Parkway Drive	650	20"	1964	21-40	\$123,500	
Robert John Road	E. City Limits	W. City Limits	650	6"	1954	21-40	\$123,500	
Roslyn Road	Mack Avenue	Marter Road	3,690	6"	1964	21-40	\$701,100	2
Roslyn Road	Wedgewood Drive	E. City Limits	1,600	8"	1997	21-40	\$304,000	2
Saddle Lane	Cook Road	Saddle Lane South	500	8"	1964	21-40	\$95,000	
Saddle Lane South	Saddle Lane North	Saddle Lane	850	8"	1964	21-40	\$161,500	
South Brys Drive	River Road	Wedgewood	1,700	8"	1974	21-40	\$323,000	1
Sunningdale Park	Sunningdale Drive	Lochmoor Boulevard	950	8"	1984	21-40	\$180,500	1

**Section B (21 to 40 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

Street Name	From	To	Pipe Length	Pipe Size	Yr Built	Repl Date	Repl Cost	Recorded Breaks
Torrey Road	Fairford Road	W. of Milk River Bridge	1,600	8"	1996	21-40	\$304,000	1
Van "K" Drive	Brys Drive South	S. Esmt.Moorland Drive	250	6"	1964	21-40	\$47,500	
Van "K" Drive	Brys Drive South	S. Esmt. Moorland Drive	1,250	8"	1964	21-40	\$237,500	
Van "K" Drive	Esmt. S.of Moorland	North Rosedale Court	1,030	8"	1964	21-40	\$195,700	1
Vernier Road	Mack Avenue	Sunningdale Drive	750	12"	1998	21-40	\$142,500	1
Virginia Lane	Vernier Road	N. City Limits	250	8"	1964	21-40	\$47,500	
Wedgewood Drive	Doyle Place West	S. of Shoreham Road	800	8"	1954	21-40	\$152,000	
Wedgewood Drive	Vernier Road	Dead End	1,120	8"	1954	21-40	\$212,800	
Westbrook Court	Yorktown Road	N. City Limits	300	6"	1964	21-40	\$57,000	
Woods Lane Court	Woods Lane	S. City Limits	200	6"	1974	21-40	\$38,000	
<b>Total Cost:</b>							<b>\$12,894,540</b>	

**Section B (41+ Year Program)****City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

<b>Street Name</b>	<b>From</b>	<b>To</b>	<b>Pipe Length</b>	<b>Pipe Size</b>	<b>Yr Built</b>	<b>Repl Date</b>	<b>Repl Cost</b>	<b>Recorded Breaks</b>
Allard Avenue	Bramcaster Road	Mack Avenue	1,080	8"	2012	41+	\$205,200	0
Allard Avenue	Chester Avenue	Bramcaster Road	1,080	8"	2012	41+	\$205,200	0
Allard Avenue	W. City Limits	Chester Avenue	1,810	8"	2012	41+	\$343,900	0
Anita Avenue	Mack Avenue	W. City Limits	1,910	6"	2001	41+	\$362,900	
Beaufait Avenue	W. City Limits	Mack Avenue	1,650	8"	1992	41+	\$313,500	
Blossom Lane	Blossom Place	Dead End	300	8"	1998	41+	\$57,000	
Blossom Lane	Cook Road	Blossom Place	200	6"	1998	41+	\$38,000	
Blossom Place	Mack Avenue	Blossom Lane	300	8"	1998	41+	\$57,000	
Broadstone Road	W. City Limits	Mack Avenue	2,270	8"	2007	41+	\$431,300	
Brys Drive	Eight Mile Road	Mack Avenue	1,200	20"	1992	41+	\$228,000	
Brys Drive	W. of Helen Avenue	Mack Avenue	1,070	8"	1992	41+	\$203,300	
Charlevoix Avenue	Vernier Road	S. of Anita	350	8"	1998	41+	\$66,500	
Cook Road	Mack Avenue	Holiday Road	1,100	8"	1984	41+	\$209,000	
Country Club Drive	W. City Limits	Mack Avenue	1,690	8"	1987	41+	\$321,100	
Fair Court	Mack Avenue	Cul-de-Sac	800	8"	1984	41+	\$152,000	
Fairway Lane	Vernier Road	Dead End	940	8"	1999	41+	\$178,600	
Fleetwood Drive	Jackson Avenue	Mack Avenue	577	8"	1986	41+	\$109,630	
Fleetwood Drive	W. City Limits	Jackson Avenue	1,037	8"	1984	41+	\$197,030	
Ford Court	Mack Avenue	Cul-de-Sac	700	8"	1984	41+	\$133,000	
Green Court	Morningside Drive	E. of Morningside Drive	350	8"	1974	41+	\$66,500	
Hampton Road	W. City Limits	Mack Avenue	1,640	8"	2011	41+	\$311,600	
Harper Ser. Drive	N. City Limits	S. City Limits	650	8"	2012	41+	\$123,500	7

**Section B (41+ Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

Street Name	From	To	Pipe Length	Pipe Size	Yr Built	Repl Date	Repl Cost	Recorded Breaks
Hawthorne Avenue	W. City Limits	Mack Avenue	1,660	8"	1999	41+	\$315,400	
Hawthorne Avenue	Marter Road	Goethe	2,200	8"	2000	41+	\$418,000	
Heather Lane	Morningside Drive	E. of Morningside Drive	540	8"	2012	41+	\$102,600	
Holiday Road	Cook Road	Fairholme Road	350	12"	1984	41+	\$66,500	
Holiday Road	Cook Road	Fairholme Road	1,750	8"	1984	41+	\$332,500	
Holiday Road	Lochmoor	Sunningdale	450	8"	2001	41+	\$85,500	
Hollywood Avenue	W. City Limits	Mack Avenue	1,650	8"	2011	41+	\$313,500	
Hunt Club Drive	W. City Limits	Mack Avenue	1,680	8"	1999	41+	\$319,200	
Ida Lane	Cook Road	Cook Road	1,660	8"	2007	41+	\$315,400	
Jackson Avenue	N. of Kenmore Drive	Oxford	250	8"	1989	41+	\$47,500	
Kenmore Drive	Mack Avenue	Jackson Avenue	1,140	8"	1993	41+	\$216,600	
Kenmore Drive	W. City Limits	Jackson Avenue	650	8"	1993	41+	\$123,500	
Lennon Avenue	W. City Limits	Mack Avenue	1,650	8"	1997	41+	\$313,500	
Littlestone Road	W. City Limits	Mack Avenue	2,110	8"	2002	41+	\$400,900	
Lochmoor Blvd.	Wedgewood Drive	W. of Morningside Drive	800	8"	2012	41+	\$152,000	
Lochmoor Blvd.	W. of Morningside Drive	E. City Limits	650	8"	2012	41+	\$123,500	
Lochmoor Boulevard	W. of Fairway Avenue	Wedgewood Drive	1,350	8"	2008	41+	\$256,500	
Lochmoor Boulevard	Milk River	W. of Fairway Avenue	1,000	8"	2008	41+	\$190,000	
Lochmoor Boulevard	Holiday Road	Milk River	950	8"	1988	41+	\$180,500	
Lochmoor Boulevard	Sunningdale Park	Holiday Road	1,300	8"	1988	41+	\$247,000	
Lochmoor Drive	Mack Avenue	Sunningdale Park	600	12"	1988	41+	\$114,000	
Lochmoor Drive	W. City Limits	Mack Avenue	1,680	8"	2003	41+	\$319,200	

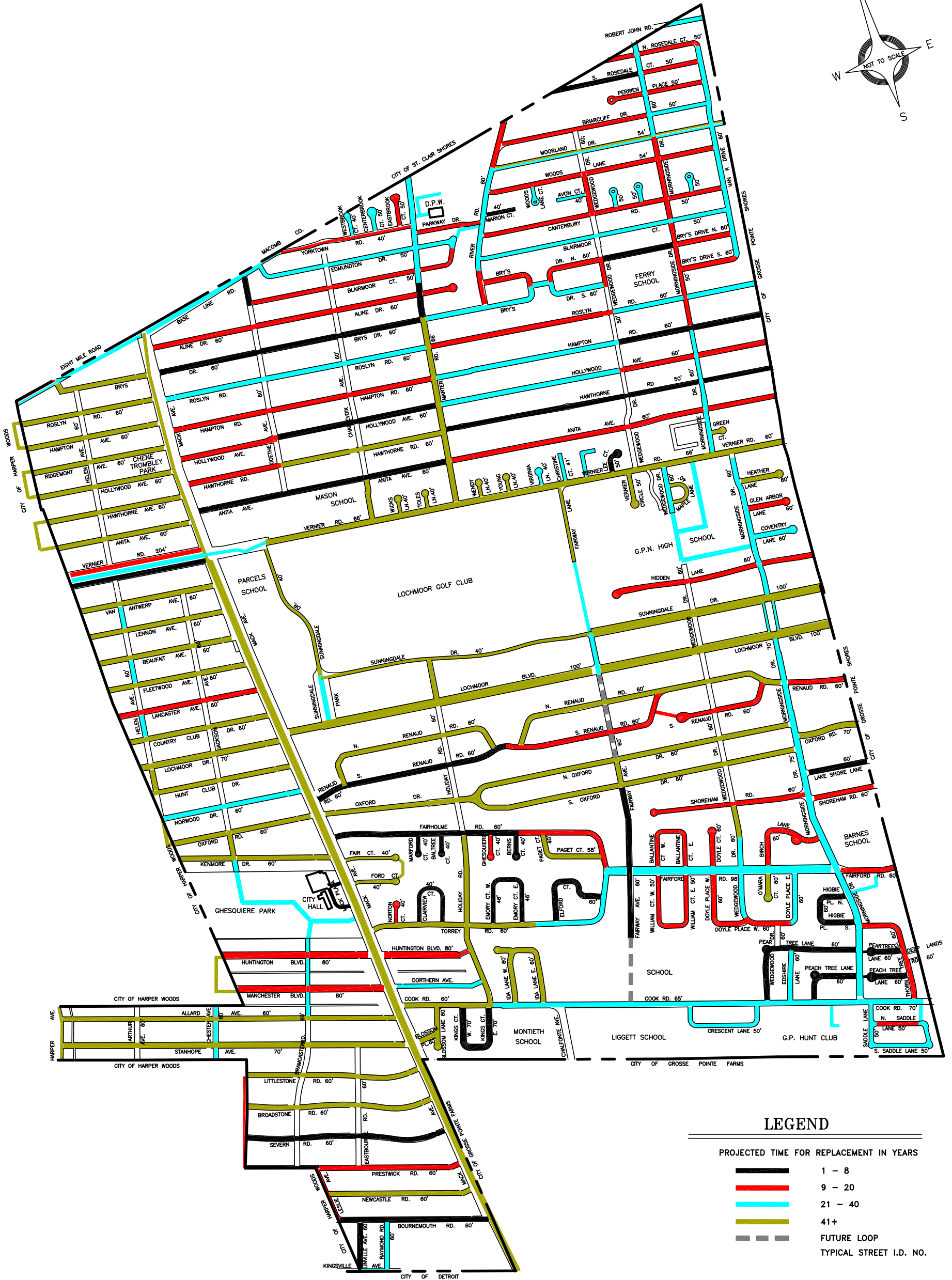
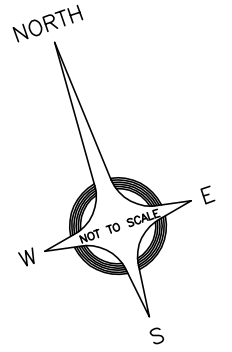
**Section B (41+ Year Program)****City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

Street Name	From	To	Pipe Length	Pipe Size	Yr Built	Repl Date	Repl Cost	Recorded Breaks
Mack Avenue	S. City Limits	Allard Avenue (Cook)	3,150	20"	2004	41+	\$598,500	1
Mack Avenue	Cook Road (Allard)	Oxford Road	2,850	20"	2004	41+	\$541,500	
Mack Avenue	Oxford Road	Vernier Road	2,400	20"	2003	41+	\$456,000	
Mack Avenue	Vernier Road	N. City Limits	2,700	12"	2003	41+	\$513,000	
Maple Lane	Wedgewood Drive	Wedgewood Drive	590	8"	1990	41+	\$112,100	
Marter Road	Vernier Road	Brys	2,075	12"	2002	41+	\$394,250	
Moorland Avenue	River Road	E. City Limits	1,850	20"	1964	41+	\$351,500	1
Newcastle Road	W. City Limits	Mack Avenue	1,750	8"	2012	41+	\$332,500	
North Oxford Road	Oxford Road	Morningside Drive	3,750	8"	1984	41+	\$712,500	1
North Renaud Road	South Renaud Road	Wedgewood	2,575	6"	2004	41+	\$489,250	
North Renaud Road	Wedgewood Drive	Morningside	900	8"	2004	41+	\$171,000	
North Renaud Road	South Renaud Road	South Renaud Road	2,280	8"	2003	41+	\$433,200	1
O'Mara Court	Fairford Avenue	Cul-de-Sac	400	8"	1993	41+	\$76,000	
Oxford Road	W. City Limits	Mack Avenue	1,659	8"	1993	41+	\$315,210	
Oxford Road	Morningside Drive	E. City Limits	480	8"	1984	41+	\$91,200	
Oxford Road	Mack Avenue	North Oxford Road	1,750	8"	1984	41+	\$332,500	
Paget Court	Fairholme Road	Fairholme Road	900	8"	1999	41+	\$171,000	
Ridgemont Avenue	W. City Limits	Mack Avenue	1,640	8"	2011	41+	\$311,600	
Roslyn Road	W. City Limits	Mack Avenue	1,640	8"	1982	41+	\$311,600	
South Oxford Road	Oxford Road	Morningside Drive	3,790	8"	1987	41+	\$720,100	1
Stanhope Avenue	Mack Avenue	Chester Avenue	2,200	8"	2005	41+	\$418,000	
Stanhope Avenue	W. City Limits	Chester Avenue	1,770	8"	2005	41+	\$336,300	

**Section B (41+ Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Water Main**

Street Name	From	To	Pipe Length	Pipe Size	Yr Built	Repl Date	Repl Cost	Recorded Breaks
Sunningdale Drive	Vernier Road	Sunningdale Park	1,600	8"	2005	41+	\$304,000	
Sunningdale Drive	Morningside Drive	E. City Limits	690	8"	2012	41+	\$131,100	
Sunningdale Drive	Wedgewood Drive	Morningside Drive	800	8"	2012	41+	\$152,000	
Sunningdale Drive	Fairway Drive	Wedgewood Drive	1,230	8"	2012	41+	\$233,700	
Sunningdale Drive	Holiday Road	Fairway Drive	1,960	8"	1984	41+	\$372,400	
Sunningdale Drive	Holiday Road	Sunningdale Park	2,890	8"	1984	41+	\$549,100	
Toles Avenue	Vernier Road	N. City Limits	240	8"	2011	41+	\$45,600	
Torrey Road	Mack Avenue	W. of Milk River Bridge	1,640	8"	1996	41+	\$311,600	
Van Antwerp Avenue	W. City Limits	Mack Avenue	1,650	8"	1997	41+	\$313,500	
Vernier Circle	Vernier Road	Cul-de-Sac	320	8"	1994	41+	\$60,800	
Vernier Road	Fairway Lane	E. City Limits	2,600	12"	1988	41+	\$494,000	
Vernier Road	Wendy Lane	Fairway Lane	1,000	12"	1989	41+	\$190,000	
Vernier Road	Charlevoix Avenue	Wendy Lane	1,250	12"	1984	41+	\$237,500	
Vernier Road	Sunningdale Drive	Charlevoix Avenue	1,300	12"	1998	41+	\$247,000	
Wedgewood Drive	N. 770 feet	Shoreham Road	770	8"	1987	41+	\$146,300	
Wendy Lane	Vernier Road	Cul-de-Sac	260	8"	1986	41+	\$49,400	
Wickes Lane	Vernier Road	N. City Limits	250	8"	2011	41+	\$47,500	
Young Lane	Vernier Road	Cul-de-sac	250	8"	2003	41+	\$47,500	
<b>Total Cost:</b>							\$21,388,870	



**LEGEND**

- PROJECTED TIME FOR REPLACEMENT IN YEARS
- 1 - 8
  - 9 - 20
  - 21 - 40
  - 41+
  - FUTURE LOOP
  - TYPICAL STREET I.D. NO.





## Sewer Inventory

The City of Grosse Pointe Woods sewer system consists of approximately 54 miles of combined sewer varying in size from 6" to 72" diameter. Pipe types consist of vitrified clay, concrete, PVC and ABS truss. Sewers are investigated using Closed Circuit Television (CCTV). The CCTV provides a detailed review of the interior pipe condition. The sewer rating corresponds with the anticipated number of years prior to necessary replacement. As of the last rating (Fall, 2013) the ratings broke down as follows:

1 to 10 years:	2.7 miles
11 to 20 years:	14.6 miles
21 to 40 years:	25.8 miles
41+ years:	11.3 miles

There are several treatment options available for sewers depending on condition. Common treatments are lining (sectional and full length) or replacement by several means- open cut, pipe bursting or directional drilling. Generally, replacement costs are similar for each alternative.

For the sake of budgeting, costs provided in the inventory are for full length lining. While replacement would be a more conservative approach, lining has become a much more common method for rehabilitation. The budget unit price used is \$125 per lineal foot which includes construction, engineering, administration, etc. This equates to roughly \$660,000 per mile.

Anderson, Eckstein Westrick, Inc.

Printed: 3/5/2014

Revised: 8/28/2013

### Section C- Database (1 to 10 Year Program)

## City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacment

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Brys Drive	Helen	Mack Avenue	N	800	12-15	1934	07	1-10	\$100,000
Fairway Lane	Vernier Road	Dead End		975	30	1954	07	1-10	\$121,875
GPN High School	Fairway	Morningside Drive		4,750	15-42		07	1-10	\$593,750
Hampton Road	Morningside Drive	E. City Limits		735	12-21	1934	05	1-10	\$91,875
Hampton Road	Wedgewood Drive	Morningside Drive		850			05	1-10	\$106,250
Heather Lane	Morningside Drive	E. of Morningside Drive		480	12	1954	07	1-10	\$60,000
Hollywood Avenue	W. City Limits	Mack Avenue	N	1,471	12-21	1934	07	1-10	\$183,875
Lake Shore Lane	Morningside Drive	E. City Limits		1,113	10	1954	07	1-10	\$139,125
Oxford Road	W. City Limits*	Mack Avenue	N	1,895	12-21	1934	07	1-10	\$236,875
Saddle Lane	Cook Road	Saddle Lane South		508	15-21	1964	07	1-10	\$63,500
Wedgewood Drive	Vernier Road	Dead End		540	36	1954	07	1-10	\$67,500
<b>Total Cost:</b>									<b>\$1,764,625</b>

**Section C- Database (11 to 20 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement**

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Aline Avenue	Mack Avenue	E. of Marter Road		3,090	8-18	1954	04	11-20	\$386,250
Anita Avenue	Mack Avenue	Charlevoix Avenue		1,875	12-30	1934	03	11-20	\$234,375
Anita Avenue	Marter Road	E. City Limits		3,570	12-30	1954	04	11-20	\$446,250
Anita Avenue	Charlevoix Avenue	Marter Road		935	12-30	1934	03	11-20	\$116,875
Blairmoor Avenue	Goethe Avenue	Edmundton Avenue		2,575	12-27	1964	03	11-20	\$321,875
Blairmoor Avenue	River Road	Van "K" Drive		2,780	12-18	1964	04	11-20	\$347,500
Brys Drive	Goethe Avenue	Marter Road		1,863	15-21	1934	03	11-20	\$232,875
Canterbury Drive	River Road	Van "K" Drive		2,900	18-42	1964	04	11-20	\$362,500
Charlevoix Avenue	Vernier Road	N. of Aline Drive		1,950	18-36	1934	03	11-20	\$243,750
Charlevoix Avenue	N. of Aline Drive	N. of Edmundton Drive		255	30		03	11-20	\$31,875
Cook Road	Morningside Drive	E. City Limits		565	18-36	1954	07	11-20	\$70,625
Coventry Lane	Morningside Drive	E. of Morningside Drive		530	15	1954	07	11-20	\$66,250
Crescent Lane	Cook Road	Cook Road		1,200	12-21	1964	07	11-20	\$150,000
Cul De Sac	Canterbury Drive	N. City Limits		170	12	1964	05	11-20	\$21,250
Cul De Sac	Canterbury Drive	N. City Limits		190	12	1964	05	11-20	\$23,750
Cul De Sac	Canterbury Drive	N. City Limits		190	12	1964	05	11-20	\$23,750
Doyle Court	Fairford Avenue	N. City Limits		465	12-15	1954	07	11-20	\$58,125
Doyle Place West	Fairford Avenue	South	W	767	12	----	07	11-20	\$95,875
Eastbourne Avenue	Prestwick Road	Stanhope Avenue		1,490	42-54	1944	07	11-20	\$186,250
Edmundton Drive	N. City Limits	Blairmoor Court		2,325	12-36	1974	03	11-20	\$290,625

**Section C- Database (11 to 20 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement**

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Edshire Place	Cook Road	Pear Tree Lane		550	12-18	1954	07	11-20	\$68,750
Elford Court	Torrey Road	Torrey Road		1,570	12-18	1934	07	11-20	\$196,250
Goethe Avenue	Anita Avenue	N. of Aline Drive		2,025	18-48		03	11-20	\$253,125
Hampton Road	Marter Road	E. of Milk River Bridge		570	10-21	1934	04	11-20	\$71,250
Hampton Road	W. City Limits	Mack Ave.	N	1436	12-21	1934	07	11-20	\$179,500
Hampton Road	E. of Milk River Bridge	Wedgewood Drive		1,600	10-18	1964	04	11-20	\$200,000
Hidden Lane	E. City Limits	W. of Wedgewood Drive		1,495	12-30	1954	07	11-20	\$186,875
Hollywood Avenue	Wedgewood Drive	E. City Limits		1,690		1954	05	11-20	\$211,250
Hollywood Avenue	Goethe Avenue	Marter Road		1,950	66	1954	03	11-20	\$243,750
Huntington Boulevard	Mack Avenue	Holiday Avenue		810	12	1954	07	11-20	\$101,250
Ida Lane	Cook Road	N. Ida Lane		1,060	12-18	1944	07	11-20	\$132,500
Kings Court W.	Cook Road	S. City Limits	W	594	12	1944	07	11-20	\$74,250
Lochmoor Boulevard	Milk River	W. of Fairway Avenue		520	48	1988	07	11-20	\$65,000
Lochmoor Drive	W. City Limits	Mack Avenue	N	1,474	12-21	1934	07	11-20	\$184,250
Maple Lane	Wedgewood Drive	Wedgewood Drive		350	12	1984	07	11-20	\$43,750
Morningside Drive	Vernier Road	Green Court		323	8	----	05	11-20	\$40,375
Morningside Drive	Coventry Lane	Vernier Road		975	12-18	1954	07	11-20	\$121,875
North Brys Drive	Wedgewood Drive	Van "K" Drive		2,830	15-27	1964	05	11-20	\$353,750
North Rosedale Court	Morningside Drive	Van "K" Drive		690	10-15	1964	05	11-20	\$86,250
Peach Tree Lane	Thorn Tree Road	Cook Road		1,250	12-15	1954	07	11-20	\$156,250

**Section C- Database (11 to 20 Year Program)****City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement**

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Peach Tree Lane	Morningside Drive	Thorn Tree Road	N	464	12	1954	07	11-20	\$58,000
Pear Tree Lane	Wedgewood Drive	Morningside Drive		1,004	12	1954	07	11-20	\$125,500
Ridgemont Avenue	W. City Limits	Mack Avenue	N	1,136	15-21	1934	07	11-20	\$142,000
Saddle Lane North	Saddle Lane South	Saddle Lane	N	1181	12	1964	07	11-20	\$147,625
Saddle Lane North	Saddle Lane South	Saddle Lane	S	590	12	1964	07	11-20	\$73,750
Saddle Lane South	Saddle Lane North	Saddle Lane		677	12	1964	07	11-20	\$84,625
Severn Road	W. City Limits	E of Eastbourne Road	N	1,550	10-21	1934	07	11-20	\$193,750
Shoreham Court	Wedgewood Drive	Fairway		1,627	12	1954	07	11-20	\$203,375
Shoreham Road	Wedgewood Drive	E. City Limits		1,620	8-12	1954	07	11-20	\$202,500
South Oxford Road**	Oxford Road	Fairway		1,863	12-27	2002	07	11-20	\$232,875
South Rosedale Court	N. City Limits	Morningside Drive		860	15-30	1964	05	11-20	\$107,500
South Rosedale Court	Morningside Drive	Van "K" Drive		550	10-15	1964	05	11-20	\$68,750
Stanhope Avenue	Chester Avenue	Mack Avenue	N	2,015	10-21	1934	07	11-20	\$251,875
Sunningdale Drive	Sunningdale Park	Vernier Road		1,625	12	1974	07	11-20	\$203,125
Toles Avenue	Vernier Road	N. City Limits		50	12	1944	03	11-20	\$6,250
Van "K" Drive	Brys Drive South	Moorland Drive		1,385	12	1964	05	11-20	\$173,125
Van "K" Drive	Briarcliff	North Rosedale Court		690	10-15	1964	05	11-20	\$86,250
Vernier Road	W. City Limits	Mack Avenue	N	1,468	12-21	1934	07	11-20	\$183,500
Virginia Lane	Vernier Road	N. City Limits		200	10-12	1964	04	11-20	\$25,000
Wedgewood Drive	Fairford	Shoreham Road		503	12-15	1954	07	11-20	\$62,875

Anderson, Eckstein Westrick, Inc.

Printed: 3/5/2014

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### Section C- Database (11 to 20 Year Program)

#### City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Woods Lane	River Road	Van "K" Drive		2,665	12-30	1964	04	11-20	\$333,125
								<b>Total Cost:</b>	<b>\$9,646,250</b>

## Section C- Database (21 to 40 Year Program)

## City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Allard Avenue	Harper Ave.	Arthur Avenue		700	12	1934	07	21-40	\$87,500
Allard Avenue	Chester Avenue	Bramcaster Road		1,070	12-21	1934	07	21-40	\$133,750
Allard Avenue	Arthur Avenue	Chester Avenue		1,600	12-21	1934	07	21-40	\$200,000
Allard Avenue	Bramcaster Road	Mack Avenue		960	12-21	1934	07	21-40	\$120,000
Anita Avenue	W. City Limits	Mack Avenue	N	1,460	10-21	1934	07	21-40	\$182,500
Avon Court	Wedgewood Avenue	Dead End		355	12	1964	04	21-40	\$44,375
Ballantyne Ct. (W)	Fairford Avenue	North		490	12	1954	07	21-40	\$61,250
Ballantyne Ct.(E&W)	Fairford Avenue	Fairford Avenue		577	12	1954	07	21-40	\$72,125
Beaufait Avenue	W. City Limits	Mack Avenue	N	1,463	12-21	1934	07	21-40	\$182,875
Briarcliff Drive	River Road	Van "K" Drive		2,545	12-42	1964	04	21-40	\$318,125
Broadstone Road	W. City Limits	Mack Avenue	N	2,120	10-21	1934	07	21-40	\$265,000
Brys Drive	Mack Avenue	Goethe Avenue		1,165	8-15		03	21-40	\$145,625
Brys Drive	S. of N. City Limit	Helen	N	300	8	----	07	21-40	\$37,500
Brys Drive	Marter Road	River Road		720	10-36	1964	04	21-40	\$90,000
Brys Drive	River Road	Wedgewood Drive		1,375	15-24	1964	04	21-40	\$171,875
Centerbrook Court	Yorktown Road	N. City Limits		275	12	1964	03	21-40	\$34,375
Clairview Court	Torrey Road	Torrey Road		960	15-27	1944	07	21-40	\$120,000
Country Club Drive	W. City Limits	Mack Avenue	N	1,479	12-21	1934	07	21-40	\$184,875
Doyle Place East	Fairford Avenue	Doyle Place West	E	786	12-27	1954	07	21-40	\$98,250
Doyle Place West	Fairford Avenue	Wedgewood Drive		1,344	12-21	1954	07	21-40	\$168,000
Eastbrook Court	Yorktown Road	N. City Limits		385	12	1964	03	21-40	\$48,125

**Section C- Database (21 to 40 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement**

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Fair Court	Mack Avenue	E. City Limits		670	12-15	1984	07	21-40	\$83,750
Fairholme Road	W. of Milk River Bridge	Fairford Road		695	12-15	1944	07	21-40	\$86,875
Fairholme Road	Mack Avenue	W. of Milk River		2,110	12-18	1944	07	21-40	\$263,750
Fairway Drive	Fairholme Road	Torrey Road	W	1,415	12	1944	07	21-40	\$176,875
Fleetwood Drive	W. City Limits	Mack Avenue	N	1,478	12-21	1934	07	21-40	\$184,750
Ford Court	Mack Avenue	E. City Limits		465	12-15	1984	07	21-40	\$58,125
Glen Arbor Lane	Morningside Drive	E. of Morningside Drive		470	12	1954	07	21-40	\$58,750
Goethe Avenue	S. of Anita Avenue	Anita Avenue		130	18-48		03	21-40	\$16,250
Goethe Avenue	N. of Aline Drive	N. City Limits		125	18		03	21-40	\$15,625
Hampton Road	Mack Avenue	Marter Road		2,955	10-21	1991	03	21-40	\$369,375
Hawthorne Avenue	Marter Road	E. City Limits		3,645	18-36	1934	04	21-40	\$455,625
Hawthorne Avenue	Marter Road	Goethe		1,910	15-18	2000	03	21-40	\$238,750
Hawthorne Avenue	W. City Limits	Mack Avenue	N	1,472	10-21	1934	07	21-40	\$184,000
Hawthorne Road	Mack Avenue	Goethe Avenue		1,165	12-18	2000	03	21-40	\$145,625
Helen Avenue	Vernier Road	Brys Drive		600	12	1934	07	21-40	\$75,000
Holiday Road	Cook Road	Torrey Road	E	814	12	1984	07	21-40	\$101,750
Hollywood Avenue	Mack Avenue	Goethe Avenue		1,215	12-66	2000	03	21-40	\$151,875
Hunt Club Drive	W. City Limits	Mack Avenue	N	1,455	12-21	1934	07	21-40	\$181,875
Kenmore Drive	W. City Limits	Mack Avenue	S	1,593	12-21	1934	07	21-40	\$199,125
Kenmore Drive	W. City Limits	Mack Avenue	N	1,173	10-21	1934	07	21-40	\$146,625
Kings Court	Cook Road	S. City Limits	E/S	1,095	12	1944	07	21-40	\$136,875



## Section C- Database (21 to 40 Year Program)

## City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Kings Court E.	Cook Road	Cook Road	W	423	18	1944	07	21-40	\$52,875
Lee Court	Vernier Road	N. City Limits		65	10-12	1964	04	21-40	\$8,125
Lennon Avenue	W. City Limits	Mack Avenue	N	1,476	12-21	1934	07	21-40	\$184,500
Linville Avenue	S. City Limits	Bournemouth Rd.		700	12	1934	07	21-40	\$87,500
Littlestone Road	W. City Limits	Chester Avenue	N	1,640	10-21	1934	07	21-40	\$205,000
Littlestone Road	Chester Avenue	Mack Avenue	N	2,140	10-21	1934	07	21-40	\$267,500
Lochmoor Blvd.	W. of Morningside Drive	E. City Limits		1,530	18-24	1983	07	21-40	\$191,250
Lochmoor Boulevard	W. of Fairway Avenue	Wedgewood Drive		1,345	18-48	1988	07	21-40	\$168,125
Mack Avenue	Esmt. S/ Manchester	Esmt. S/ Kenmore	W	1685	39	1934	07	21-40	\$210,625
Mack Avenue	Esmt. S/ Kenmore	Esmt. S/ Lochmoor	W	1463	24-39	1934	07	21-40	\$182,875
Mack Avenue	S. City Limits	Esmt. S/ Manchester	W	3253	24-66	1934	07	21-40	\$406,625
Mack Avenue	Vernier Road	Hollywood Avenue	W	1074	60-66	1934	07	21-40	\$134,250
Mack Avenue	Hollywood Avenue	N. City Limits	W	1310	24-48	1934	07	21-40	\$163,750
Mack Avenue	City Hall	Over Flow Relief		1046	30-48	1934	07	21-40	\$130,750
Mack Avenue	Lochmoor Boulevard	St. Michael		1008	12	1934	07	21-40	\$126,000
Mack Avenue	Esmt. S/ Lochmoor	Vernier Road	W	2753	27-60	1934	07	21-40	\$344,125
Manchester Boulevard	W. City Limits	Mack Ave.	N	3,606	12-21	1934	07	21-40	\$450,750
Marion Court	River Road	Dead End		325	12	1964	04	21-40	\$40,625
Moorland Avenue	River Road	E. City Limits		2,400	12-21	1964	04	21-40	\$300,000
Morningside	Lake Shore Lane	Shoreham Road		237	10		07	21-40	\$29,625
Morningside Drive	Hampton Road	Moorland Drive		535	12-21	1964	05	21-40	\$66,875

## Section C- Database (21 to 40 Year Program)

## City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Morningside Drive	Moorland Avenue	N. City Limits		1,005	10-30	1964	05	21-40	\$125,625
Morningside Drive	Cook Road	South Oxford Drive		805	10-12	1954	07	21-40	\$100,625
North Oxford Road	Oxford Road	Morningside Drive		3,850	12-27	1984	07	21-40	\$481,250
North Renaud Road	South Renaud Road	South Renaud Road		1,810	12-24	1944	07	21-40	\$226,250
North Rosedale Court	N. City Limits	Morningside Drive		245	15	1964	05	21-40	\$30,625
Norton Court	Torrey Lane	N. City Limits		205	15-18	1984	07	21-40	\$25,625
Norwood Drive	W. City Limits	Mack Avenue	N	1,476	12-21	1934	07	21-40	\$184,500
Oxford Road	Mack Avenue	North Oxford Road		1,560	12-21	1984	07	21-40	\$195,000
Paget Court	Fairholme Road	Fairholme Road		745	15-18	1944	07	21-40	\$93,125
Peach Tree Lane	Morningside Drive	Thorn Tree Road	S	526	12	1954	07	21-40	\$65,750
Pear Tree Lane	Morningside Drive	Thorn Tree Road		1,450	12	1954	07	21-40	\$181,250
Perrien Road	W. of Morningside Drive	Van "K" Drive		945	12-15	1964	05	21-40	\$118,125
Prestwick Road	W. City Limits	Eastbourne Road	N	1,550	12-21	1934	07	21-40	\$193,750
Prestwick Road	Eastbourne Road	Mack Avenue	N	950	12-21	1934	07	21-40	\$118,750
River Road	North Sub. Line	Parkway Drive		475	10-48	1964	04	21-40	\$59,375
Robert John Road	E. City Limits	W. City Limits		761	10	----	05	21-40	\$95,125
Roslyn Road	Wedgewood Drive	E. City Limits		1,715	10-18	1934	05	21-40	\$214,375
Roslyn Road	Marter Road	E. of Milk River Bridge		650	10-21	1964	04	21-40	\$81,250
Roslyn Road	W. City Limits	Mack Avenue	N	1,418	12-21	1934	07	21-40	\$177,250
Roslyn Road	Mack Avenue	Marter Road		2,990	12-18	1991	03	21-40	\$373,750
Roslyn Road	E. of Milk River Bridge	Wedgewood Drive		1,515		1964	04	21-40	\$189,375

**Section C- Database (21 to 40 Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement**

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Severn Road	E. of Eastbourne Road	Mack Avenue	N	950	10-21	1934	07	21-40	\$118,750
Shoreham Court	Wedgewood Drive	Cul-de-Sac		860	8	1954	07	21-40	\$107,500
South Brys Drive	Morningside Drive	Van "K" Drive		620	15	1964	05	21-40	\$77,500
South Oxford Road	Fairway	Morningside		3,320	12-60	1934	07	21-40	\$415,000
South Renaud Road	Mack Avenue	E. of Milk River		2,410	18-30	1944	07	21-40	\$301,250
South Renaud Road	W. of Wedgewood Drive	North Renaud Road		1,130	12-15	1954	07	21-40	\$141,250
Stanhope Avenue	W. City Limits	Chester Avenue	N	1,647	10-24	1934	07	21-40	\$205,875
Sunningdale Drive	Fairway Drive	Wedgewood Drive		1,300	18-42	1985	07	21-40	\$162,500
Thorn Tree Road	Morningside Drive	Cook Road		1,170	12-18	1954	07	21-40	\$146,250
Van Antwerp Avenue	W. City Limits	Mack Avenue	N	1,460	12-21	1934	07	21-40	\$182,500
Vernier Road	Marter Road	Fairway Lane		2,110	12-30	1934	04	21-40	\$263,750
Vernier Road	Fairway Lane	Mack Avenue		2,000	30		07	21-40	\$250,000
Vernier Road	Marter Road	Morningside		3,300	30		04	21-40	\$412,500
W. Emory Court	Torrey Road	Easement	W	477	12	1934	07	21-40	\$59,625
Wedgewood Drive	N. of North Brys	Avon Court		720	12-30	1964	05	21-40	\$90,000
Wedgewood Drive	Vernier Road	N. of North Brys Drive		1,190	10-30	1964	05	21-40	\$148,750
Wedgewood Drive	Cook Road	Pear Tree Lane		666	12-15	1954	07	21-40	\$83,250
Westbrook Court	Yorktown Road	N. City Limits		245	12	1964	03	21-40	\$30,625
Wickes Lane	Vernier Road	N. City Limits		60	12	1944	03	21-40	\$7,500
Williams Court E.	Fairford Avenue	Fairford Avenue	W	1,835	10-18	1954	07	21-40	\$229,375
Williams Court W.	Fairford Avenue	Fairford Avenue	W	1,835	10-18	1945	07	21-40	\$229,375

Anderson, Eckstein Westrick, Inc.

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### Section C- Database (21 to 40 Year Program)

#### City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Woods Lane Court	Woods Lane	S. City Limits		70	12	1974	04	21-40	\$8,750
Yorktown Road	N. City Limits	Marter Road		1,595	15-27	1964	03	21-40	\$199,375
							<b>Total Cost:</b>		\$17,051,125

## Section C- Database (41+ Year Program)

## City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
8 Mile Road	W. City Limits	Brys	S	210	8		07	41+	\$26,250
Baltree Court	Fairholme Road	S. City Limits		155	12-15	1944	07	41+	\$19,375
Berns Court	Fairholme Road	S. City Limits	W	360	10-12	1934	07	41+	\$45,000
Birch Lane	Fairford Avenue	Morningside Drive		1,000	12-15	1954	07	41+	\$125,000
Blossom Lane	Cook Road	S. City Limits		625	12	1944	07	41+	\$78,125
Bournemouth Road	Leslie Avenue	Mack Avenue		1,805	18-30	1934	07	41+	\$225,625
Bournemouth Road	Leslie Avenue	Mack Avenue	N	1,805	12-21	1934	07	41+	\$225,625
Chalfonte Avenue	S. City Limits	Cook Road		645	24	1954	07	41+	\$80,625
Christine Court	Vernier Road	N. City Limits		320	12	1964	04	41+	\$40,000
Cook Road	Wedgewood Drive	Morningside Drive		1,109	36		07	41+	\$138,625
Cook Road	Chalfonte Avenue	Wedgewood Road		2,145	42-48	1954	07	41+	\$268,125
Dorthen Avenue	Mack Avenue	Holiday Avenue		970	12-21	----	07	41+	\$121,250
E. Emory Court	Torrey Road	Easement	W	477	12	1934	07	41+	\$59,625
Fairford Road	Fairholme Road	E. of Morningside Drive		2,660	30-42	1954	07	41+	\$332,500
Fairholme/Torrey Emt	Milk River	Fairway		915	42-48	1944	07	41+	\$114,375
Fairholme/Torrey Emt	W. of Milk River	Milk River		1,184	36-42	1944	07	41+	\$148,000
Fairway Drive	Cook Road	South Oxford Road		2,240	60	1954	07	41+	\$280,000
Fairway Drive	Lochmoor Boulevard	Sunningdale Drive		465	21	1974	07	41+	\$58,125
Ghesquiere Court	Fairholme Road	S. City Limits	W	370	10-12	1934	07	41+	\$46,250
Ghesquiere Park	Mack Avenue	W. City Limits		1,889	10-24		07	41+	\$236,125

**Section C- Database (41+ Year Program)****City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement**

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Higbie Place N.	Morningside Drive	Morningside Drive	S	436	12-15	1954	07	41+	\$54,500
Higbie Place N.	Morningside Drive	Morningside Drive	N	510	12-15	1954	07	41+	\$63,750
Higbie Place S.	Morningside Drive	Morningside Drive		568	12-15	1954	07	41+	\$71,000
Holiday Road	Fairholme Road	Torrey Road		467	12	1944	07	41+	\$58,375
Hollywood Avenue	Marter Road	Wedgewood Drive		1,925	42	1954	04	41+	\$240,625
Hollywood Avenue	Marter Road	Wedgewood Drive		1,925	36	1954	04	41+	\$240,625
Huntington Boulevard	W. City Limits	Mack Avenue		1,578	12-21	1934	07	41+	\$197,250
Lancaster Avenue	W. City Limits	Mack Avenue	N	1,475	12-21	1934	07	41+	\$184,375
Leslie Avenue	Bournemouth Road	Prestwick Road		650	24-27	1934	07	41+	\$81,250
Lochmoor Blvd.	Wedgewood Drive	W. of Morningside Drive		775	48	1988	07	41+	\$96,875
Lochmoor Boulevard	Sunningdale Park	Holiday Road		1,385	21-24	1988	07	41+	\$173,125
Lochmoor Boulevard	Holiday Road	Milk River		1,300	27-30	1988	07	41+	\$162,500
Lochmoor Drive	Mack Avenue	Sunningdale Park		400	12-21	1984	07	41+	\$50,000
Mack Avenue	Renaud Road	Lochmoor Boulevard		672	12-18	1934	07	41+	\$84,000
Marford Court	Fairholme Road	S. City Limits		250	12-21	1944	07	41+	\$31,250
Marter Road	N. of Aline Drive	N. City Limits		1,330		1964	04	41+	\$166,250
Marter Road	Vernier Road	N. of Aline Drive		2,500	30-45	1934	04	41+	\$312,500
Morningside Drive	South Oxford Road	Lochmoor Boulevard		535	10	1954	07	41+	\$66,875
Newcastle Road	W. City Limits	Mack Avenue	N	1,565	12-21	1934	07	41+	\$195,625
O'Mara Court	Fairford Avenue	S. City Limits	E/S/W	1,344	12-15	1954	07	41+	\$168,000

**Section C- Database (41+ Year Program)**

**City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement**

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Oxford Road	Morningside Drive	E. City Limits		700	12-18	1989	07	41+	\$87,500
Prestwick Road	Leslie Avenue	Eastbourne Road		491	30	----	07	41+	\$61,375
Raymond Drive	S. City Limits	Bournemouth Road		700	12	1934	07	41+	\$87,500
Renaud Road	Morningside Drive	E. City Limit		700	12-18		07	41+	\$87,500
River Road	Moorland Drive	N. City Limits		320	42	1964	04	41+	\$40,000
River Road	Brys Drive	North Sub. Line		285	27	1964	04	41+	\$35,625
River Road	Moorland Drive	Parkway Drive		535	42-48	1964	04	41+	\$66,875
South Oxford Road	Black Marsh Drain	Fairway		1,183	30	2002	07	41+	\$147,875
South Renaud Road	E. of Milk River	North Renaud Road		1,910	21-24	1954	07	41+	\$238,750
Stanhope Avenue	Eastbourne Road	Mack Avenue		432	54	1934	07	41+	\$54,000
Sunningdale Drive	Morningside Drive	E. City Limits		640	15-18	1934	07	41+	\$80,000
Sunningdale Drive	Milk River	Fairway Drive		1,970	27-48	1981	07	41+	\$246,250
Sunningdale Drive	Wedgewood Drive	Morningside Drive		905	18	1934	07	41+	\$113,125
Sunningdale Drive	Milk River	Sunningdale Park		1,325	12-27	1984	07	41+	\$165,625
Sunningdale Park	Sunningdale Drive	Lochmoor Boulevard		240	12	1984	07	41+	\$30,000
Torrey Road	Fairford Road	W. of Milk River Bridge		485	12-60	1944	07	41+	\$60,625
Torrey Road	Mack Avenue	W. of Milk River Bridge		2,060	12-60	1944	07	41+	\$257,500
Vernier Circle	Vernier Road	S. City Limits		445	12	1994	07	41+	\$55,625
Wedgewood Drive	North Oxford Road	North Renaud Road		665	12-21	1954	07	41+	\$83,125
Wedgewood Drive	Lochmoor Boulevard	Sunningdale Drive		422	27		07	41+	\$52,750

Anderson, Eckstein Westrick, Inc.

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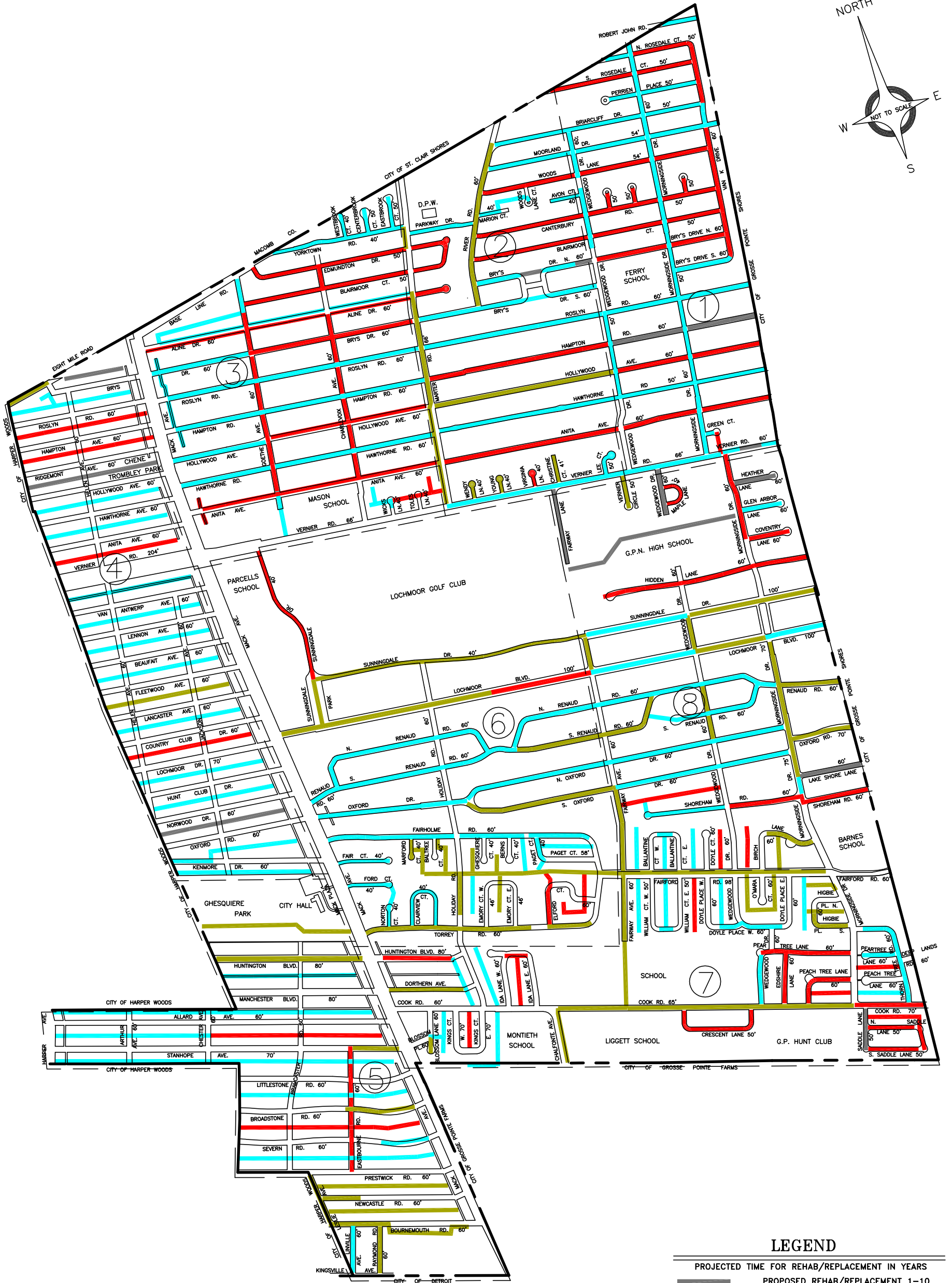
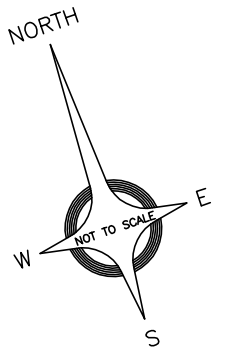
Revised: 3/05/2013

### Section C- Database (41+ Year Program)

#### City of Grosse Pointe Woods Infrastructure Inventory - Sewer Rehab/Replacement

Street Name	From	To	Easement	Pipe Length (Ft.)	Pipe Size (In.)	Pipe Age (Yr.)	Televise (Yr.)	Repl. Date	Est. Repl Cost
Wendy Lane	Vernier Road	N. City Limits		230	12	1984	04	41+	\$28,750
Young Lane	Vernier Road	N. City Limits		60	12	1944	04	41+	\$7,500
							<b>Total Cost:</b>		\$7,455,250





**LEGEND**

PROJECTED TIME FOR REHAB/REPLACEMENT IN YEARS	
<span style="color: grey;">—</span>	PROPOSED REHAB/REPLACEMENT 1-10
<span style="color: red;">—</span>	PROPOSED REHAB/REPLACEMENT 11-20
<span style="color: cyan;">—</span>	PROPOSED REHAB/REPLACEMENT 21-40
<span style="color: yellow;">—</span>	COMPLETED REHAB/REPLACEMENT 41+



## Pavement Inventory

The City of Grosse Pointe Woods road system consists of approximately 57 miles of roads which are concrete or asphalt overlaid streets. The road system is visually inspected approximately every other year and each road section is rated. The road rating corresponds with the anticipated number of years prior to necessary replacement. As of the last rating (Fall, 2013) the ratings broke down as follows:

Immediate:	7.5 miles
1 to 3 years:	2.2 miles
4 to 8 years:	4.0 miles
9 to 20 years:	36.5 miles
21 to 40 years:	6.3 miles

There are several treatments for roads depending on existing condition. Common treatments are reconstruction, resurfacing, patching and joint sealing. Roads with a rating of Immediate or 1 to 3 years have deteriorated to a point where reconstruction is the only reasonable treatment. Some roads in the 4 to 8 rating may be resurfaced and/or patched, but many have deteriorated to a point where reconstruction is the only option. Streets with a rating of 9 to 20 years and 21 to 40 years are able to be rehabilitated with patching, resurfacing and/or joint sealing. The most cost effective way to maintain a road system is to regularly perform preventative maintenance (patching, resurfacing and joint sealing) which costs significantly less and is much less disruptive than reconstruction.

For the sake of budgeting, costs provided in the inventory are for reconstruction. The budget unit price used is \$100 per square yard which includes construction, engineering, administration, etc. This equates to roughly \$1.46 million per mile for a typical 25 foot wide road.

Anderson, Eckstein Westrick, Inc.

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**Section D (Immediate Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

Street Name	From	To	Yr. Built	Yr. Overlaid	Pav't Type	Repl Date	Project Replacement
Allard Ave.	Chester Avenue	Bramcaster Road	1934	1962	A. ON C.	0	\$279,000
Allard Ave.	Bramcaster Road	Mack Avenue	1934	1962	A. ON C.	0	\$277,000
Anita Ave.	Helen Ave.	Mack Ave.	1954	1981	A. ON C.	0	\$277,000
Anita Ave.	W. City Limits	Helen Ave.	1954	1981	A. ON C.	0	\$141,000
Anita Ave.	Mack Avenue	Charlevoix Avenue	1934	1962	A. ON C.	0	\$513,000
Beaufait Ave.	W. City Limits	Mack Avenue	1934	1962	A. ON C.	0	\$418,000
Broadstone Rd.	W. City Limits	Mack Avenue	1934	1962	A. ON C.	0	\$564,000
Brys Dr.	Helen Ave.	Mack Avenue	1954		CONC.	0	\$265,000
Brys Dr.	Mack Avenue	Marter Road	1934	1962	A. ON C.	0	\$822,000
Country Club Dr.	W. City Limits	Mack Avenue	1934	1973	A. ON C.	0	\$432,000
Crescent Ln.	Cook Road	Cook Road	1964	1981	A. ON C.	0	\$303,000
Hollywood Ave.	Goethe Avenue	Marter Road	1964	1962	A. ON C.	0	\$477,000
Huntington Blvd.	Mack Avenue	Holiday Avenue	1954		CONC.	0	\$557,000
Lancaster Ave.	W. City Limits	Mack Avenue	1934	1962	A. ON C.	0	\$418,000
Maple Ln.	Wedgewood Drive	Wedgewood Drive	1954	1962	A. ON C.	0	\$125,000
North Oxford Rd.	Fairway Dr	Morningside Dr	1934	1981	A. ON C.	0	\$553,000
Oxford Rd.	W. City Limits	Jackson Avenue	1934	1962	A. ON C.	0	\$226,000
Oxford Rd.	Jackson Avenue	Mack Avenue	1934	1962	A. ON C.	0	\$206,000

Anderson, Eckstein Westrick, Inc.

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**Section D (Immediate Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

<b>Street Name</b>	<b>From</b>	<b>To</b>	<b>Yr. Built</b>	<b>Yr. Overlaid</b>	<b>Pav't Type</b>	<b>Repl Date</b>	<b>Project Replacement</b>
Severn Rd.	Bramcaster Road	Mack Avenue	1934	1962	A. ON C.	0	\$446,000
South Renaud Rd.	Mack Avenue	E. of Milk River	1954	1973	A. ON C.	0	\$613,000
South Renaud Rd.	E. of Milk River	Fairway Ave.	1954	1973	A. ON C.	0	\$317,000
Stanhope Ave.	Mack Avenue	Chester Avenue	1934	1962	A. ON C.	0	\$613,000
Stanhope Ave.	Chester Avenue	W. City Limits	1944	1962	A. ON C.	0	\$468,000
Sunningdale Dr.	Fairway Drive	Wedgewood Drive	1934	1962	A. ON C.	0	\$637,000
Sunningdale Dr.	Wedgewood Drive	Morningside Drive	1934	1962	A. ON C.	0	\$478,000
Sunningdale Dr.	Morningside Drive	E. City Limits	1934	1981	A. ON C.	0	\$335,000
Virginia Ln.	Vernier Road	Cul de Sac	1964		CONC.	0	\$42,000
Wedgewood Dr.	Vernier Road	Dead End	1954	1985	A. ON C.	0	\$139,000
<b>Total Replacement Cost:</b>							<b>\$10,941,000</b>

Anderson, Eckstein Westrick, Inc.

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Revised: 8/28/2013

**Section D (1 to 3 Year Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

<b>Street Name</b>	<b>From</b>	<b>To</b>	<b>Yr. Built</b>	<b>Yr. Overlaid</b>	<b>Pav't Type</b>	<b>Repl Date</b>	<b>Project Replacement</b>
Fleetwood Dr.	Alley	Mack Avenue	1984		CONC.	1-3	\$53,000
Ida Ln.	Ida Ln. W.	Cul-de-Sac	1944		A. ON C.	1-3	\$44,000
Lochmoor Blvd.	Holiday Road	Milk River	1984	1990	CONC.	1-3	\$405,000
Lochmoor Blvd.	Milk River	W. of Fairway Avenue	1934	1973	A. ON C.	1-3	\$393,000
Lochmoor Dr.	Mack Alley	Mack Ave.	1934		CONC.	1-3	\$53,000
Morningside Dr.	Oxford Rd.	Sunningdale Drive	1979		CONC.	1-3	\$654,000
Oxford Rd.	Mack Avenue	Holiday Rd.	1934	1962	A. ON C.	1-3	\$403,000
Roslyn Rd.	Mack Avenue	Marter Road	1934	1985	A. ON C.	1-3	\$934,000
South Renaud Rd.	Fairway Ave.	N. Renaud Rd.	1954	1973	A. ON C.	1-3	\$143,000
Wedgewood Dr.	South Oxford Road	North Oxford Rd.	1954		CONC.	1-3	\$79,000
<b>Total Replacement Cost:</b>							<b>\$3,161,000</b>

Anderson, Eckstein Westrick, Inc.

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**Section D (4 to 8 Year Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

<b>Street Name</b>	<b>From</b>	<b>To</b>	<b>Yr. Built</b>	<b>Yr. Overlaid</b>	<b>Pav't Type</b>	<b>Repl Date</b>	<b>Project Replacement</b>
Allard Ave.	W. City Limits	Chester Avenue	1964	1962	A. ON C.	4-8	\$446,000
Avon Ct.	Wedgewood Avenue	Dead End	1964		CONC.	4-8	\$98,000
Bramcaster Rd.	Stanhope Ave.	Allard Ave.	1964		CONC.	4-8	\$80,000
Brys Dr.	Eight Mile Road	City Limits	1954		CONC.	4-8	\$35,000
Edmundton Dr.	Charlevoix Ave	Marter Rd.	1964		CONC.	4-8	\$262,000
Fairway Dr.	Sunningdale Avenue	S. Oxford	1954		CONC.	4-8	\$457,000
Hampton Rd.	Mack Avenue	Marter Road	1934	1981	A. ON C.	4-8	\$802,000
Hampton Rd.	Morningside Drive	E. City Limits	1997	1981	A. ON C.	4-8	\$229,000
Lake Shore Ln.	Morningside Drive	E. City Limits	1954		CONC.	4-8	\$195,000
Lochmoor Blvd.	Sunningdale Park	Holiday Road	1984	1990	CONC.	4-8	\$529,000
Lochmoor Blvd.	W. of Morningside Drive	E. City Limits	1934	1973	A. ON C.	4-8	\$283,000
Marion Ct.	River Road	Dead End	1964		CONC.	4-8	\$98,000
Marter Rd.	Hawthorne	Brys Dr.	1964	1985	A. ON C.	4-8	\$413,000
Marter Rd.	Brys Dr.	Blairmoor Ct.	1964		CONC.	4-8	\$161,000
Marter Rd.	Vernier Road	Hawthorne	1964	1985	A. ON C.	4-8	\$243,000

Anderson, Eckstein Westrick, Inc.

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**Section D (4 to 8 Year Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

<b>Street Name</b>	<b>From</b>	<b>To</b>	<b>Yr. Built</b>	<b>Yr. Overlaid</b>	<b>Pav't Type</b>	<b>Repl Date</b>	<b>Project Replacement</b>
Parkway Dr.	Marter Road	River Road	1964		CONC.	4-8	\$223,000
Roslyn Rd.	Marter Road	E. of Milk River Bridge	1934		CONC.	4-8	\$127,000
Toles Ave.	Vernier Road	N. City Limits	1979		CONC.	4-8	\$42,000
Vernier Rd.	Charlevoix Avenue	Wendy Lane	1964		CONC.	4-8	\$627,000
Vernier Rd.	Wendy Lane	Fairway Lane	1964		CONC.	4-8	\$451,000
Wedgewood Dr.	Sunningdale Drive	Hidden Lane	1954		CONC.	4-8	\$125,000
<b>Total Replacement Cost:</b>							<b>\$5,926,000</b>

## Section D (9 to 20 Year Program)

### City of Grosse Pointe Woods Infrastructure Inventory - Pavement

Street Name	From	To	Yr. Built	Yr. Overlaid	Pav't Type	Repl Date	Project Replacement
Aline Ave.	Mack Avenue	E. of Marter Road	1954		CONC.	9-20	\$947,000
Anita Ave.	Charlevoix Avenue	Marter Road	1989		CONC.	9-20	\$256,000
Anita Ave.	Marter Road	E. City Limits	1964		CONC.	9-20	\$1,028,000
Arthur Ave.	S. of Stanhope Ave.	N. of Allard Avenue	1944		CONC.	9-20	\$167,000
Ballantyne Ct.(E&W)	Fairford Avenue	Fairford Avenue	1954		CONC.	9-20	\$279,000
Baltree Ct.	Fairholme Road	S. to Cul-de-Sac	1944		CONC.	9-20	\$70,000
Berns Ct.	Fairholme Road	S. City Limits	1974		CONC.	9-20	\$70,000
Birch Ln.	Fairford Avenue	Morningside Drive	1954		CONC.	9-20	\$279,000
Blairmoor Ave.	Goethe Avenue	Edmundton Avenue	1964		CONC.	9-20	\$683,000
Blairmoor Ave.	River Road	Van "K" Drive	1964		CONC.	9-20	\$766,000
Blossom Ln.	Cook Road	S. City Limits	1944	2001	A. ON C.	9-20	\$125,000
Blossom Pl.	Mack Avenue	Blossom Lane	1944	2001	A. ON C.	9-20	\$56,000
Bournemouth Rd.	Leslie Avenue	Mack Avenue	1934	1981	A. ON C.	9-20	\$432,000
Bramcaster Rd.	Prestwick Road	Allard Avenue	1964		CONC.	9-20	\$460,000
Bramcaster Rd.	Allard Avenue	N. of Huntington Blvd.	1964		CONC.	9-20	\$237,000
Briarcliff Dr.	River Road	Van "K" Drive	1964		CONC.	9-20	\$655,000
Brys Dr.	Marter Road	River Road	1964		CONC.	9-20	\$205,000
Brys Dr.	River Road	Wedgewood Drive	1964		CONC.	9-20	\$785,000
Canterbury Dr.	River Road	Van "K" Drive	1964		CONC.	9-20	\$934,000
Centerbrook Ct.	Yorktown Road	N. City Limits	1964		CONC.	9-20	\$70,000
Charlevoix Ave.	Vernier Road	N. of Aline Drive	1964		CONC.	9-20	\$683,000
Charlevoix Ave.	N. of Aline Drive	N. of Edmunton Drive	1964		CONC.	9-20	\$139,000
Chester Ave.	S. of Stanhope Ave.	N. of Allard Avenue	1944		CONC.	9-20	\$167,000
Christine Ct.	Vernier Road	N. City Limits	1964		CONC.	9-20	\$56,000
Cook Rd.	Mack Avenue	Chalfonte Avenue	1993		CONC.	9-20	\$585,000
Cook Rd.	Chalfonte Avenue	Wedgewood Road	1954		CONC.	9-20	\$725,000
Cook Rd.	Wedgewood Drive	Morningside Drive	1954		CONC.	9-20	\$339,000



**Section D (9 to 20 Year Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

Street Name	From	To	Yr. Built	Yr. Overlaid	Pav't Type	Repl Date	Project Replacement
Cook Rd.	Morningside Drive	E. City Limits	1954		CONC.	9-20	\$209,000
Coventry Ln.	Morningside Drive	E. of Morningside Drive	1954		CONC.	9-20	\$125,000
Cul De Sac	Canterbury Drive	N. City Limits	1964		CONC.	9-20	\$56,000
Cul De Sac	Canterbury Drive	N. City Limits	1964		CONC.	9-20	\$56,000
Cul De Sac	Canterbury Drive	N. City Limits	1964		CONC.	9-20	\$56,000
Deeplands Rd.	Thorn Tree Road	E. City Limits	1954		CONC.	9-20	\$42,000
Dorthen Ave.	Mack Avenue	Holiday Avenue	1954	2001	A. ON C.	9-20	\$279,000
Doyle Ct.	Fairford Avenue	N. City Limits	1954		CONC.	9-20	\$112,000
Doyle Place East	Fairford Avenue	Doyle Place West	1954		CONC.	9-20	\$460,000
Doyle Place W.	Fairford Avenue	Wedgewood Drive	1954		CONC.	9-20	\$265,000
Eastbourne Ave.	Prestwick Road	Stanhope Avenue	1964		CONC.	9-20	\$376,000
Eastbrook Ct.	Yorktown Road	N. City Limits	1964		CONC.	9-20	\$98,000
Edmundton Dr.	Marter Rd.	Blairmoor Ct.	1964		CONC.	9-20	\$90,000
Edmundton Dr.	N. City Limits	Charlevoix Ave	1964		CONC.	9-20	\$210,000
Edshire Pl.	Cook Road	Pear Tree Lane	1954		CONC.	9-20	\$167,000
Eight Mile Rd.	W. City Limits	Brys Drive	1954		CONC.	9-20	\$110,000
Eight Mile Rd.	Mack Avenue	E. of Mack Avenue	1964		CONC.	9-20	\$434,000
Eight Mile Rd.	E. of Mack	Goethe Avenue	1964		CONC.	9-20	\$181,000
Eight Mile Rd.	Goethe Avenue	Yorktown Road	1964		CONC.	9-20	\$110,000
Emory Ct.	Torrey Road	Torrey Road	1979		CONC.	9-20	\$348,000
Fair Ct.	Mack Avenue	E. City Limits	1984		CONC.	9-20	\$125,000
Fairford Rd.	Torrey Road	Wedgewood Road	1954	2000	A. ON C.	9-20	\$349,000
Fairford Rd.	Fairholme Road	Wedgewood Road	1954	2000	A. ON C.	9-20	\$349,000
Fairford Rd.	Wedgewood Road	Morningside Drive	1954	1981	A. ON C.	9-20	\$233,000
Fairford Rd.	E. of Morningside Drive	E. City Limits	1954	1981	A. ON C.	9-20	\$125,000
Fairholme Rd.	Mack Avenue	W. of Milk River	1944	2007	A. ON C.	9-20	\$585,000
Fairholme Rd.	W. of Milk River Bridge	Fairford Road	1954	2007	A. ON C.	9-20	\$320,000

**Section D (9 to 20 Year Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

Street Name	From	To	Yr. Built	Yr. Overlaid	Pav't Type	Repl Date	Project Replacement
Fairway Dr.	S. Oxford	Fairford	1999	1999	A. ON C.	9-20	\$256,000
Fairway Dr.	Fairford	Dead End	1954		CONC.	9-20	\$212,000
Fairway Ln.	Vernier Road	Dead End	1964	2000	A. ON C.	9-20	\$223,000
Fleetwood Dr.	Jackson Ave.	Alley	1984		CONC.	9-20	\$99,000
Ford Ct.	Mack Avenue	E. City Limits	1984		CONC.	9-20	\$125,000
Ghesquiere Ct.	Fairholme Road	S. to Cul-de-Sac	1996		CONC.	9-20	\$70,000
Glen Arbor Ln.	Morningside Drive	E. of Morningside Drive	1954		CONC.	9-20	\$125,000
Goethe Ave.	Anita Avenue	N. of Aline Drive	1964		CONC.	9-20	\$557,000
Goethe Ave.	N. of Aline Drive	N. City Limits	1964		CONC.	9-20	\$139,000
Green Ct.	Morningside Drive	E. of Morningside Drive	1979		CONC.	9-20	\$56,000
Hampton Rd.	W. City Limits	Mack Avenue	1954		CONC.	9-20	\$418,000
Hampton Rd.	Marter Road	E. of Milk River Bridge	1999	1999	A. ON C.	9-20	\$117,000
Hampton Rd.	E. of Milk River Bridge	Wedgewood Drive	1974		CONC.	9-20	\$457,000
Hampton Rd.	Wedgewood Drive	Morningside Drive	1984		CONC.	9-20	\$220,000
Hawthorne Ave.	W. City Limits	Mack Avenue	1954		CONC.	9-20	\$418,000
Hawthorne Rd.	Mack Avenue	Goethe Avenue	1954		CONC.	9-20	\$317,000
Hawthorne Rd.	Marter Road	E. City Limits	1979		CONC.	9-20	\$947,000
Heather Ln.	Morningside Drive	E. of Morningside Drive	1954		CONC.	9-20	\$139,000
Helen Ave.	Lochmoor Boulevard	Vernier Road	1954		CONC.	9-20	\$585,000
Helen Ave.	Vernier Road	Brys Drive	1954		CONC.	9-20	\$543,000
Hidden Ln.	E. City Limits	W. of Wedgewood Drive	1954		CONC.	9-20	\$627,000
Hidden Ln.	Cul-de-Sac	Wedgewood Drive	1999	1985	A. ON C.	9-20	\$220,000
Higbie Place (N & S)	Morningside Drive	Morningside Drive	1954		CONC.	9-20	\$279,000
Holiday Rd.	Cook Road	Fairholme Road	1954		CONC.	9-20	\$209,000
Holiday Rd.	Fairholme Road	Sunningdale Drive	1954		CONC.	9-20	\$446,000
Hollywood Ave.	W. City Limits	Mack Avenue	1954		CONC.	9-20	\$418,000
Hollywood Ave.	Mack Avenue	Goethe Avenue	1964	1985	A. ON C.	9-20	\$287,000

**Section D (9 to 20 Year Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

Street Name	From	To	Yr. Built	Yr. Overlaid	Pav't Type	Repl Date	Project Replacement
Hollywood Ave.	Marter Road	Wedgewood Drive	1954		CONC.	9-20	\$594,000
Hollywood Ave.	Wedgewood Drive	E. City Limits	1954		CONC.	9-20	\$446,000
Huntington Blvd.	W. City Limits	Mack Avenue	1954		CONC.	9-20	\$892,000
Ida Ln.	Cook Road	Cook Road	1944	1985	A. ON C.	9-20	\$432,000
Jackson Ave.	S. of Kenmore Drive	Lochmoor Boulevard	1964		CONC.	9-20	\$251,000
Jackson Ave.	Lochmoor Avenue	VanAntwerp Avenue	1964		CONC.	9-20	\$725,000
Kenmore Dr.	W. City Limits	Mack Avenue	1959	2000	A. ON C.	9-20	\$167,000
Kings Ct.	Cook Road	Cook Road	1944	2002	A. ON C.	9-20	\$320,000
Lee Ct.	Vernier Road	N. City Limits	1964		CONC.	9-20	\$42,000
Lennon Ave.	W. City Limits	Mack Avenue	1934	1997	A. ON C.	9-20	\$418,000
Leslie Ave.	Bournemouth Road	Prestwick Road	1964		CONC.	9-20	\$217,000
Linville Ave.	Bournemouth Road	S. City Limits	1954		CONC.	9-20	\$153,000
Lochmoor Blvd.	W. of Fairway Avenue	Wedgewood Drive	1934	1973	A. ON C.	9-20	\$666,000
Lochmoor Blvd.	Wedgewood Drive	W. of Morningside Drive	1934	1973	A. ON C.	9-20	\$461,000
Manchester Blvd.	W. City Limits	Mack Avenue	1969		CONC.	9-20	\$892,000
Marford Ct.	Fairholme Road	S. City Limits	1944		CONC.	9-20	\$70,000
Marter Rd.	Blairmoor Ct.	Parkway Dr.	1964		CONC.	9-20	\$133,000
Moorland Ave.	River Road	E. City Limits	1964		CONC.	9-20	\$725,000
Morningside Dr.	Cook Road	Oxford Rd.	1954	2002	A. ON C.	9-20	\$967,000
Morningside Dr.	Sunningdale Drive	Hidden Lane	2002		CONC.	9-20	\$517,000
Morningside Dr.	Vernier Road	Hampton Road	1954		CONC.	9-20	\$376,000
Morningside Dr.	Hampton Road	Moorland Drive	1964		CONC.	9-20	\$585,000
Morningside Dr.	Moorland Avenue	N. City Limits	1964		CONC.	9-20	\$293,000
Morningside Dr.	Hidden Lane	Vernier Rd	1954		CONC.	9-20	\$398,000
Newcastle Rd.	W. City Limits	Mack Avenue	1992		CONC.	9-20	\$446,000
North Brys Dr.	Wedgewood Drive	Van "K" Drive	1964		CONC.	9-20	\$404,000
North Oxford Rd.	Oxford Road	Fairway Dr	2008		CONC.	9-20	\$550,000

**Section D (9 to 20 Year Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

Street Name	From	To	Yr. Built	Yr. Overlaid	Pav't Type	Repl Date	Project Replacement
North Rosedale Ct.	N. City Limits	Morningside Drive	1964		CONC.	9-20	\$98,000
North Rosedale Ct.	Morningside Drive	Van "K" Drive	1964		CONC.	9-20	\$181,000
Norton Ct.	Torrey Lane	N. City Limits	1974		CONC.	9-20	\$70,000
O'Mara Ct.	Fairford Avenue	S. City Limits	1993		CONC.	9-20	\$98,000
Oxford Rd.	Morningside Drive	E. City Limits	1989		CONC.	9-20	\$195,000
Paget Ct.	Fairholme Road	Fairholme Road	1944	2000	A. ON C.	9-20	\$237,000
Peach Tree Ln.	Thorn Tree Road	Cook Road	1954		CONC.	9-20	\$348,000
Pear Tree Ln.	Wedgewood Drive	Thorn Tree Road	1954		CONC.	9-20	\$362,000
Perrien Rd.	W. of Morningside Drive	Van "K" Drive	1964		CONC.	9-20	\$293,000
Prestwick Rd.	W. City Limits	Leslie Avenue	1934		CONC.	9-20	\$307,000
Prestwick Rd.	Bramcaster Road	Leslie Avenue	1979		CONC.	9-20	\$125,000
Prestwick Rd.	Leslie Avenue	Eastbourne Road	1979		CONC.	9-20	\$84,000
Raymond Dr.	S. City Limits	Bournemouth Road	1954		CONC.	9-20	\$153,000
Renaud	Morningside Drive	E. City Limits	1954	2002	A. ON C.	9-20	\$188,000
Ridgemont Ave.	W. City Limits	Mack Avenue	1954		CONC.	9-20	\$418,000
River Rd.	Brys Drive	North Sub. Line	1964		CONC.	9-20	\$167,000
River Rd.	North Sub. Line	Parkway Drive	1964		CONC.	9-20	\$139,000
River Rd.	Parkway Driver	Moorland Drive	1964		CONC.	9-20	\$167,000
River Rd.	Moorland Drive	N. City Limits	1964		CONC.	9-20	\$111,000
Robert John Rd.	E. City Limits	W. City Limits	1964		CONC.	9-20	\$98,000
Roslyn Rd.	W. City Limits	Mack Avenue	1954		CONC.	9-20	\$418,000
Roslyn Rd.	E. of Milk River Bridge	Wedgewood Drive	1934		CONC.	9-20	\$319,000
Saddle Lane North	Saddle Lane South	Saddle Lane	1964		CONC.	9-20	\$195,000
Saddle Lane South	Saddle Lane North	Saddle Lane	1964		CONC.	9-20	\$209,000
Saddle Ln.	Cook Road	Saddle Lane South	1964		CONC.	9-20	\$125,000
Shoreham Ct.	W. City Limits	Wedgewood	1954		CONC.	9-20	\$237,000
Shoreham Rd.	Wedgewood Drive	E. City Limits	1954		CONC.	9-20	\$418,000

## Section D (9 to 20 Year Program)

### City of Grosse Pointe Woods Infrastructure Inventory - Pavement

Street Name	From	To	Yr. Built	Yr. Overlaid	Pav't Type	Repl Date	Project Replacement
South Brys Dr.	Morningside Drive	Van "K" Drive	1964		CONC.	9-20	\$181,000
South Renaud Rd.	North Renaud Road	E. of Wedgewood Drive	1954	1973	A. ON C.	9-20	\$227,000
South Renaud Rd.	W. of Wedgewood Drive	Dead End	1954	1997	A. ON C.	9-20	\$79,000
South Rosedale Ct.	N. City Limits	Morningside Drive	1964		CONC.	9-20	\$265,000
South Rosedale Ct.	Morningside Drive	Van "K" Drive	1964		CONC.	9-20	\$181,000
Sunningdale Dr.	Sunningdale Park	Holiday Road	1979		CONC.	9-20	\$337,000
Sunningdale Dr.	Holiday Road	Fairway Drive	1979		CONC.	9-20	\$460,000
Thorn Tree Rd.	Morningside Drive	Cook Road	1954		CONC.	9-20	\$348,000
Torrey Rd.	Mack Avenue	Holiday Avenue	1999		CONC.	9-20	\$617,000
Torrey Rd.	Holiday Road	Fairford Road	1999		CONC.	9-20	\$346,000
Van "K" Dr.	Brys Drive South	S. Esmt. Moorland Drive	1964		CONC.	9-20	\$404,000
Van "K" Dr.	Esmt. S.of Moorland	North Rosedale Court	1964		CONC.	9-20	\$251,000
Van Antwerp Ave.	W. City Limits	Mack Avenue	1934	1997	A. ON C.	9-20	\$418,000
Vernier Rd.	Mack Avenue	Sunningdale Drive	1999	1998	A. ON C.	9-20	\$178,000
Vernier Rd.	Sunningdale Drive	Charlevoix Avenue	1999	1999	A. ON C.	9-20	\$627,000
Vernier Rd.	Fairway Lane	E. City Limits	1934		CONC.	9-20	\$1,239,000
Wedgewood Dr.	Cook Road	Doyle Place East	1954		CONC.	9-20	\$279,000
Wedgewood Dr.	Vernier Road	N. of North Brys Drive	1954		CONC.	9-20	\$683,000
Wedgewood Dr.	N. of North Brys Drive	Esmt. S/Moorland Drive	1964		CONC.	9-20	\$251,000
Wedgewood Dr.	Esmt. S/Moorland Drive	Braircliff Avenue	1964		CONC.	9-20	\$70,000
Wedgewood Dr.	Doyle Place East	Fairford	1954		CONC.	9-20	\$265,000
Wedgewood Dr.	Fairford	Shoreham Road	1954		CONC.	9-20	\$84,000
Wedgewood Dr.	Shoreham Road	South Oxford Road	1954		CONC.	9-20	\$125,000
Wedgewood Dr.	North Oxford Road	North Renaud Road	1954		CONC.	9-20	\$181,000
Wedgewood Dr.	North Renaud Road	Sunningdale Drive	1954		CONC.	9-20	\$223,000
Wendy Ln.	Vernier Road	N. City Limits	1944		CONC.	9-20	\$42,000
Westbrook Ct.	Yorktown Road	N. City Limits	1964		CONC.	9-20	\$70,000

Anderson, Eckstein Westrick, Inc.

Printed: 3/10/2014

Revised 8/28/2013

**Section D (9 to 20 Year Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

<b>Street Name</b>	<b>From</b>	<b>To</b>	<b>Yr. Built</b>	<b>Yr. Overlaid</b>	<b>Pav't Type</b>	<b>Repl Date</b>	<b>Project Replacement</b>
Wickes Ln.	Vernier Road	N. City Limits	1979		CONC.	9-20	\$42,000
Williams Ct.	Fairford Avenue	Fairford Avenue	1954		CONC.	9-20	\$376,000
Woods Lane Ct.	Woods Lane	S. City Limits	1964		CONC.	9-20	\$70,000
Woods Ln.	River Road	Van "K" Drive	1964		CONC.	9-20	\$697,000
Yorktown Rd.	N. City Limits	Marter Road	1964		CONC.	9-20	\$376,000
<b>Total Replacement Cost:</b>							<b>\$53,469,000</b>

Anderson, Eckstein Westrick, Inc.

Printed: 3/10/2014

Revised: 8/28/2013

**Section D (21 to 40 Year Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

Street Name	From	To	Yr. Built	Yr. Overlaid	Pav't Type	Repl Date	Project Replacement
Chalfonte Ave.	S. City Limits	Cook Road	1997	2012	A. ON C.	21-40	\$194,000
Clairview Ct.	Torrey Road	Torrey Road	1944		CONC.	21-40	\$279,000
Elford Ct.	Torrey Road	Torrey Road	2004		CONC.	21-40	\$307,000
Fleetwood Dr.	W. City Limits	Jackson Avenue	1934		CONC.	21-40	\$274,000
Harper Ser. Dr.	N. City Limits	S. City Limits	1954		CONC.	21-40	\$207,000
Hawthorne Rd.	Goethe Avenue	Marter Road	1954		CONC.	21-40	\$547,000
Hunt Club Dr.	W. City Limits	Mack Avenue	1934		CONC.	21-40	\$432,000
Littlestone Rd.	W. City Limits	Mack Avenue	2002		CONC.	21-40	\$446,000
Lochmoor Dr.	W. City Limits	Mack Alley	1934		CONC.	21-40	\$379,000
Lochmoor Dr.	Mack Avenue	Sunningdale Park	1934	2007	A. ON C.	21-40	\$128,000
Marter Rd.	Parkway	N. City Limits	1997		CONC.	21-40	\$199,000
North Renaud Rd.	South Renaud Road	South Renaud Road	2004		CONC.	21-40	\$599,000
North Renaud Rd.	South Renaud Road	Morningside Drive	2005		CONC.	21-40	\$1,073,000
Norwood Dr.	W. City Limits	Mack Avenue	1934		CONC.	21-40	\$432,000
Prestwick Rd.	Eastbourne	Mack Ave	1979		CONC.	21-40	\$132,000
Roslyn Rd.	Wedgewood Drive	E. City Limits	1934		CONC.	21-40	\$460,000
Severn Rd.	W. City Limits	Bramcaster Road	2001		CONC.	21-40	\$167,000
South Oxford Rd.	Holiday Road	Fairway	2002		CONC.	21-40	\$1,017,000

Anderson, Eckstein Westrick, Inc.

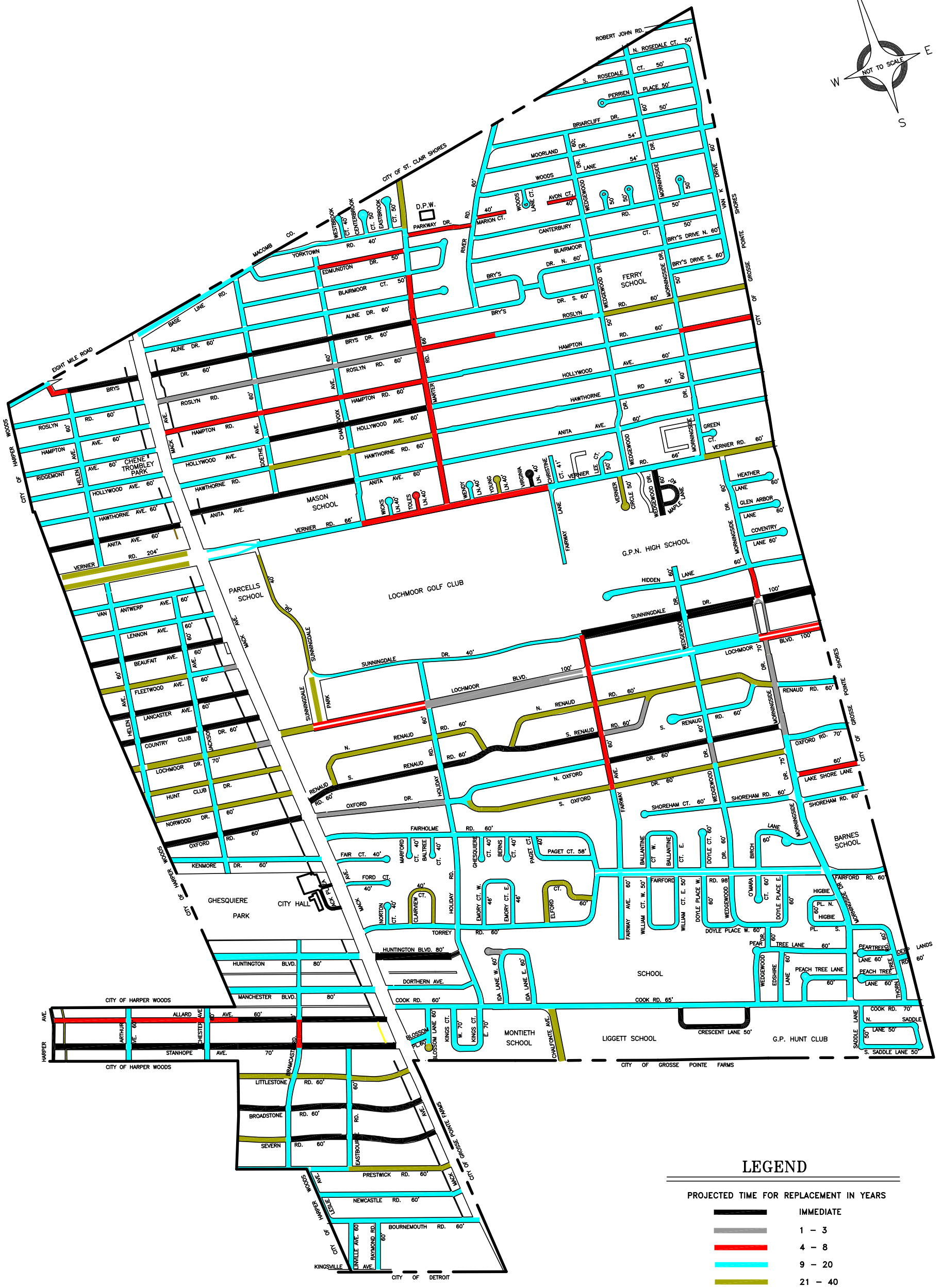
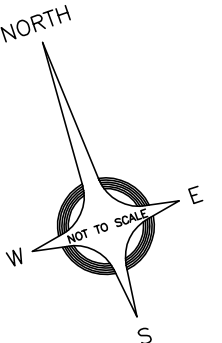
Printed: 3/10/2014

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**Section D (21 to 40 Year Program)**  
**City of Grosse Pointe Woods Infrastructure Inventory - Pavement**

<b>Street Name</b>	<b>From</b>	<b>To</b>	<b>Yr. Built</b>	<b>Yr. Overlaid</b>	<b>Pav't Type</b>	<b>Repl Date</b>	<b>Project Replacement</b>
South Oxford Rd.	Fairway	Morningside Drive	2007		CONC.	21-40	\$553,000
Sunningdale Park	Vernier Road	Sunningdale Drive	2006		CONC.	21-40	\$415,000
Sunningdale Park	Sunningdale Drive	Lochmoor Boulevard	2006		CONC.	21-40	\$121,000
Vernier Cir.	Vernier Road	S. City Limits	1993		CONC.	21-40	\$111,000
Vernier Rd.	W. City Limits	Mack Avenue	2006		CONC.	21-40	\$708,000
Young Ln.	Vernier Road	N. to Cul-de-Sac	1944		CONC.	21-40	\$42,000
<b>Total Replacement Cost:</b>							<b>\$9,222,000</b>





LEGEND

PROJECTED TIME FOR REPLACEMENT IN YEARS

- IMMEDIATE
- 1 - 3
- 4 - 8
- 9 - 20
- 21 - 40

FILE: INTRYPV.DWG SCRIPT: INTRYPV.SCR PLOT SCALE: 1=1150 PLOT CONFIG: 650

CITY OF GROSSE POINTE WOODS  
WAYNE COUNTY, MICHIGAN  
PAVEMENT REPLACEMENT



ANDERSON, ECKSTEIN  
AND WESTRICK INC.  
51301 SCHOENHERR ROAD - SHELBY TOWNSHIP - MICHIGAN - 48315  
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