

STAFF REPORT No. 23-1-01

PADDOCK LAKE VILLAGE BOARD

STAFF REPORT NO: 2023-1-01

MEETING DATE: Committee of the Whole, **January 11, 2023**

AGENDA TITLE: Street Improvement Project

LEAD DEPARTMENT: Administration and Public Works

Objective: Discuss and begin planning for a Village wide street improvement project.

Background and History: In 2005-2006, the VOPL Board of trustees approved a substantial road improvement project, this project included repaving, road base improvement, drainage improvements and repairs to under road surface utilities (sewer and water).

The project saw 70% of the VOPL roads being improved, since 2005-2006, the VOPL has had six (6) street improvement projects. below lists the projects, costs, funding sources and percent of road network improved.

Year	Roads	Costs	Funding Source	Percent of roads
2005-2006	Multiple	2,345,000	G.O. Bonding	70%
2012	250 TH Ave.	326,000	Capital Improvement	2.8%
2015	235 th and 242 nd	279,900	Capital Improvement	4.7%
2016	245, 243. 60 and 251 st	177,389	Capital Improvement	2.4%
2018	72 nd , 61 st , 245, 246 and 74 th	466,000	CIP and Wis. LRIP	5.9%
2020	241 st Ct; 61, 72 nd East of 248	125,715	CIP	1.1%

Present Situation: The roads improved in 2005-2006 are now 16 years old and will be 18 years old by the time the 2024 improvement project is undertaken. Many of the roads improved in 2005-2006 have deteriorated based on the Wisconsin Pavement Surface Evaluation Rating (PASER) system to 3 and 4.

The Village, Wis. DOT and our consulting engineers use the PASER rating system to score public roads and determine which roads should receive attention and improvements. A score of 10 is considered a new road with no defects, while a score of 2 and 1 requires substantial improvements.

Ranking	Condition	Appearance	Maintenance Needed
9-10	Excellent	Like new	None
8	Very Good	No longitudinal cracks, all cracks sealed or tight	Little or no maintenance required
6-7	Good	Minor cracks and traffic wear	Routine maintenance such as crack filling and sealcoating
4-5	Fair	Larger cracks, loss of surface asphalt and noticeable wear on the asphalt	Patching and surface overlay
3	Poor	Substantial cracking, patches in poor condition, potholes and surface distortion	Mill and resurface or total reconstruction
2	Very Poor	Severe cracking and distortion, numerous potholes with patches in poor condition	Total reconstruction with extensive repair to the road's base
1	Failed	Extensive loss of road's integrity	Road needs to be rebuilt from scratch

Project Funding: For the past 10 years the VOPL has used Capital Improvement funds to fund road improvement projects. The proposed 2024 road improvement project is likely to cost \$1.5 to \$2.2 million, this amount exceeds the current Capital Improvement fund, presently at \$128,441.

The VOPL has two existing General Obligation (G.O.) loans that will be satisfied in 2025 and 2027. With VOPL Boards approval, the thought is to replace the two expiring G.O. loans with a newly incurred G.O. debt. The new annual debt payment will replace the two expiring G.O. loan payments.

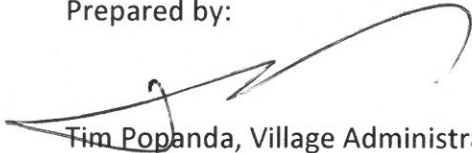
F.Y.	3/1/2005 Sreet Improvement \$1,000,000		Series 2012 Bonds \$2,345,000		Total Annual G.O. Debt (not paid by TID)	Annual debt payment available without changing levy(tax)
	Principal	Interest	Principal	Interest		
2023	\$70,000	\$8,155	\$320,000	\$15,545	\$413,700	
2024	\$70,000	\$4,918	\$100,000	\$9,145	\$184,063	\$229,637
2025	\$70,000	\$1,645	\$110,000	\$7,145	\$188,790	\$224,910
2026			\$115,000	\$4,945	\$119,945	\$293,755
2027			\$115,000	\$2,473	\$117,473	\$296,227

Action Requested: Authorize VOPL staff and consulting engineer to begin planning for the 2024 Street Improvement project.

Attachments:

- 2022 Pavement rating spreadsheet
- Preliminary map of roads in project.

Prepared by:



Tim Popanda, Village Administrator
Staff Report 22-12-96, 12/7/2022.

New Rating	Rating	Rating Year	County - Municipal Code	Current Pavement Rating and Year	Surface			On Route Name (Includes prefix, name, type, suffix and extension)	At Route		Toward Route	
					Type	Year	Width		Municipal Location	Name (Includes prefix, name, type, suffix and extension)	At Offset	Municipal Location
			30171	7 (2021)	70	2016	27	F	60th Pl	243rd Ct	422	245th Ave
			30171	6 (2021)	65	2005	18	F	61st St	236th Ave	0	237th Ave
			30171	6 (2021)	65	2005	18	F	61st St	237th Ave	0	239th Ave
			30171	7 (2021)	70	2011	18	F	61st St	239th Ave	0	62nd St
			30171	7 (2021)	70	2011	18	F	61st St	62nd St	0	240th Ave
			30171	9 (2021)	70	2018	18	F	61st St	241st Ave	0	241st Ave
			30171	8 (2021)	70	2018	18	F	61st St	241st Ct	0	241st Ct
			30171	8 (2021)	70	2018	18	F	61st St	242nd Ave	0	242nd Ave
			30171	8 (2021)	70	2018	18	F	61st St	243rd Ave	0	243rd Ave
			30171	8 (2021)	70	2018	18	F	61st St	243rd Ct	0	243rd Ct
			30171	8 (2021)	70	2018	18	F	61st St	245th Ave	0	245th Ave
			30171	8 (2021)	70	2018	18	F	61st St	246th Ave	0	246th Ave
			30171	8 (2021)	70	2018	18	F	61st St	247th Ave	0	247th Ave
			30171	5 (2021)	70	1998	27	F	61st St	248th Ave	0	248th Ave
			30171	7 (2021)	65	2005	21	F	62nd Pl	237th Ave	0	248th Ct
			30171	7 (2021)	65	2005	21	F	62nd Pl	238th Ave	0	238th Ave
			30171	4 (2021)	70	2004	17	F	62nd St	242nd Ave	0	236th Ave
			30171	6 (2021)	65	2005	18	F	62nd St	61st St	0	Termini
			30171	7 (2021)	70	2005	22	F	62nd St	235th Ave	0	236th Ave
			30171	6 (2021)	70	2005	22	F	62nd St	234th Ave	0	234th Ave
			30171	5 (2021)	70	2004	19	F	63rd St	248th Ave	0	Termini
			30171	5 (2021)	70	2004	19	F	63rd St	247th Ave	0	247th Ave
			30171	6 (2021)	70	2004	19	F	63rd St	246th Ave	0	246th Ave
			30171	5 (2021)	70	2004	19	F	63rd St	245th Ave	0	245th Ave
			30171	7 (2021)	70	2005	21	F	63rd St	Termini	0	243rd Ct
			30171	5 (2021)	70	2005	21	F	63rd St	239th Ct	0	239th Ct
			30171	5 (2021)	70	2005	21	F	63rd St	238th Ave	0	238th Ave
			30171	6 (2021)	70	2005	21	F	63rd St	237th Ave	0	237th Ave
			30171	6 (2021)	70	2004	19	F	64th Pl	65th St / 243rd Ct	0	Termini
			30171	6 (2021)	70	2004	15	F	64th Pl	243rd Ave	0	243rd Ave
			30171	6 (2021)	70	2005	19	F	64th Pl	241st Ave	0	Termini
			30171	10 (2021)	70	2004	18	F	64th St	65th St / 244th Ave	369	240th Ave
			30171	6 (2021)	70	2004	18	F	64th St	243rd Ct	0	243rd Ct
			30171	7 (2021)	70	2004	18	F	64th St	243rd Ave	0	243rd Ave

NOTE: If Previous Pavement Rating and Year column blank, previous submitted rating incompatible with surface type OR no rating data available.

New Rating	Rating Year	County - Municipal Code	Current Pavement Rating and Year	Surface			On Route Name (Includes prefix, name, type, suffix and extension)	At Route		Toward Route	
				Type	Year	Width		At Municipal Location	Name (Includes prefix, name, type, suffix and extension)	At Offset	Toward Municipal Location
		30171	6 (2021)	70	2004	18	64th St	242nd Ave	0	241st Ave	
		30171	7 (2021)	70	2005	20	64th St	Termini	0	235th Ave	
		30171	7 (2021)	70	2005	20	64th St	235th Ave	0	Termini	
		30171	7 (2021)	65	2005	21	65th St	235th Ave	0	236th Ave	
		30171	6 (2021)	70	2005	21	65th St	236th Ave	0	237th Ave	
		30171	6 (2021)	70	2005	21	65th St	237th Ave	0	238th Ave	
		30171	7 (2021)	70	2004	20	65th St	64th Pl / 243rd Ct	0	64th St / 244th Ave	
		30171	6 (2021)	70	2004	20	65th St	64th St / 244th Ave	0	245th Ave	
		30171	7 (2021)	70	2004	20	65th St	245th Ave	0	246th Ave	
		30171	7 (2021)	70	2004	20	65th St	246th Ave	0	247th Ave	
		30171	6 (2021)	70	2004	20	65th St	247th Ave	0	248th Ave	
		30171	8 (2021)	70	2005	22	66th St	Termini	0	235th Ave	
		30171	6 (2021)	70	2004	18	66th St	236th Ave	0	238th Ave	
		30171	7 (2021)	70	2004	18	66th St	243rd Ct	0	244th Ave	
		30171	6 (2021)	70	2004	18	66th St	244th Ave	0	244th Ave	
		30171	6 (2021)	70	2004	18	66th St	244th Ave	0	244th Ave	
		30171	6 (2021)	70	2004	18	66th St	244th Ave	0	245th Ave	
		30171	7 (2021)	70	2004	18	66th St	245th Ave	0	246th Ave	
		30171	6 (2021)	70	2004	18	66th St	246th Ave	0	247th Ave	
		30171	10 (2021)	70	2004	16	67th St	247th Ave	0	248th Ave	
		30171	6 (2021)	70	2004	16	67th St	243rd Ave	118	244th Ave	
		30171	6 (2021)	70	2004	18	67th St	244th Ave	0	248th Ave	
		30171	5 (2021)	70	2004	19	67th St	248th Ave	0	250th Ave	
		30171	4 (2021)	70	2004	17	68th St	250th Ave	0	248th Ave	
		30171	6 (2021)	70	2004	17	68th St	248th Ave	0	244th Ave	
		30171	7 (2021)	70	2005	22	68th St	248th Ave	0	244th Ave	
		30171	7 (2021)	70	2005	22	68th St	238th Ave	528	236th Ave	
		30171	6 (2021)	70	2005	20	68th St	236th Ave	0	235th Ave	
		30171	7 (2021)	70	2004	17	69th Pl	235th Ave	0	Termini	
		30171	5 (2021)	70	2004	18	69th Pl	245th Ave / 246th Ave	0	248th Ave	
		30171	5 (2021)	70	2004	18	69th St	248th Ave	0	250th Ave	
		30171	5 (2021)	70	2004	15	69th St	250th Ave	0	248th Ave	
		30171	6 (2021)	70	2004	16	69th St	248th Ave	0	244th Ave / 245th Ave	
		30171	5 (2021)	70	2004	17	70th St	244th Ave / 245th Ave	0	243rd Ave	
		30171	6 (2021)	70	2004	16	70th St	250th Ave	0	248th Ave	
		30171	6 (2021)	70	2004	16	70th St	248th Ave	0	247th Ave	

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New Rating	Rating	Rating Year	County - Municipal Code	Current Pavement Rating and Year	Surface			On Route Name (Includes prefix, name, type, suffix and extension)	At Route		Toward Route	
					Type	Year	Width		At Municipal Location	Name (Includes prefix, name, type, suffix and extension)	At Offset	Toward Municipal Location
			30171	6 (2021)	70	2004	17	F	70th St	247th Ave	0	246th Ave
			30171	5 (2021)	70	2004	16	F	70th St	246th Ave	0	245th Ave
			30171	5 (2021)	70	2004	18	F	71st St	248th Ave	0	250th Ave
			30171	9 (2021)	70	2016	25	F	72nd St	251st Ave	0	250th Ave
			30171	9 (2021)	70	2018	18	F	72nd St	250th Ave	0	248th Ave
			30171	8 (2021)	70	2018	17	F	72nd St	248th Ave	0	247th Ave
			30171	9 (2021)	70	2018	17	F	72nd St	247th Ave	117	247th Ave
			30171	10 (2021)	65	2004	17	F	72nd St	247th Ave	0	245th Ave
			30171	10 (2021)	70	2004	16	F	72nd St	245th Ave	0	Termini
			30171	5 (2021)	70	2004	16	F	73rd St	248th Ave	0	250th Ave
			30171	4 (2021)	70	2004	18	F	74th St	250th Ave	0	248th Ave
			30171	8 (2021)	70	2018	18	F	74th St	248th Ave	0	246th Ave
			30171	8 (2021)	70	2018	18	F	74th St	246th Ave	0	243rd Ave
			30171	9 (2021)	70	2019	26	F	76th PI	Termini	0	259th Ct
			30171	9 (2021)	70	2019	26	F	76th PI	259th Ct	0	77th St / 258th Ave
			30171	9 (2021)	70	2019	26	F	76th St	259th Ct	0	256th Ave / CTH F
			30171	9 (2021)	70	2019	26	F	76th St	Termini	0	242nd Ave
			30171	6 (2021)	65	2000	14	F	76th St	76th PI / 258th Ave	0	CTH F
			30171	6 (2021)	65	2000	18	F	77th St	Termini	0	244th Ave
			30171	6 (2021)	65	2000	18	F	77th St	244th Ave	0	Termini
			30171	6 (2021)	65	2001	16	F	77th St	243rd Ave	0	242nd Ave
			30171	6 (2021)	70	2002	16	F	77th St	242nd Ave	792	241st Ave
			30171	5 (2021)	70	2002	16	F	77th St	242nd Ave	0	Termini
			30171	5 (2021)	70	2002	24	F	77th St	241st Ave	0	Termini
			30171	5 (2021)	70	2002	16	F	78th St	241st Ave	0	242nd Ave
			30171	6 (2021)	65	2002	16	F	78th St	242nd Ave	0	243rd Ave
			30171	6 (2021)	65	2000	16	F	78th St	242nd Ave	0	244th Ave
			30171	6 (2021)	70	1999	16	F	78th St	244th Ave	0	Termini
			30171	6 (2021)	65	1999	22	F	83rd St	84th St / 233rd Ave / 83rd St	951	216th Ave / 83rd St / 84th St
			30171	7 (2021)	65	2005	22	F	84th St	233rd Ave / 84th St / 83rd St	862	216th Ave / 83rd St / 84th St
			30171	6 (2021)	65	2005	21	F	234th Ave	Termini	0	62nd St
			30171	8 (2021)	70	2015	21	F	234th Ave	62nd St	0	Termini
			30171	8 (2021)	70	2015	25	F	235th Ave	60th St / CTH K	0	62nd St
			30171	9 (2021)	70	1980	20	F	235th Ave	60th St / CTH K	592	62nd St
			30171	8 (2021)	70	1980	20	F	235th Ave	62nd St	0	62nd PI
			30171	8 (2021)	70	1980	20	F	235th Ave	62nd PI	0	64th St

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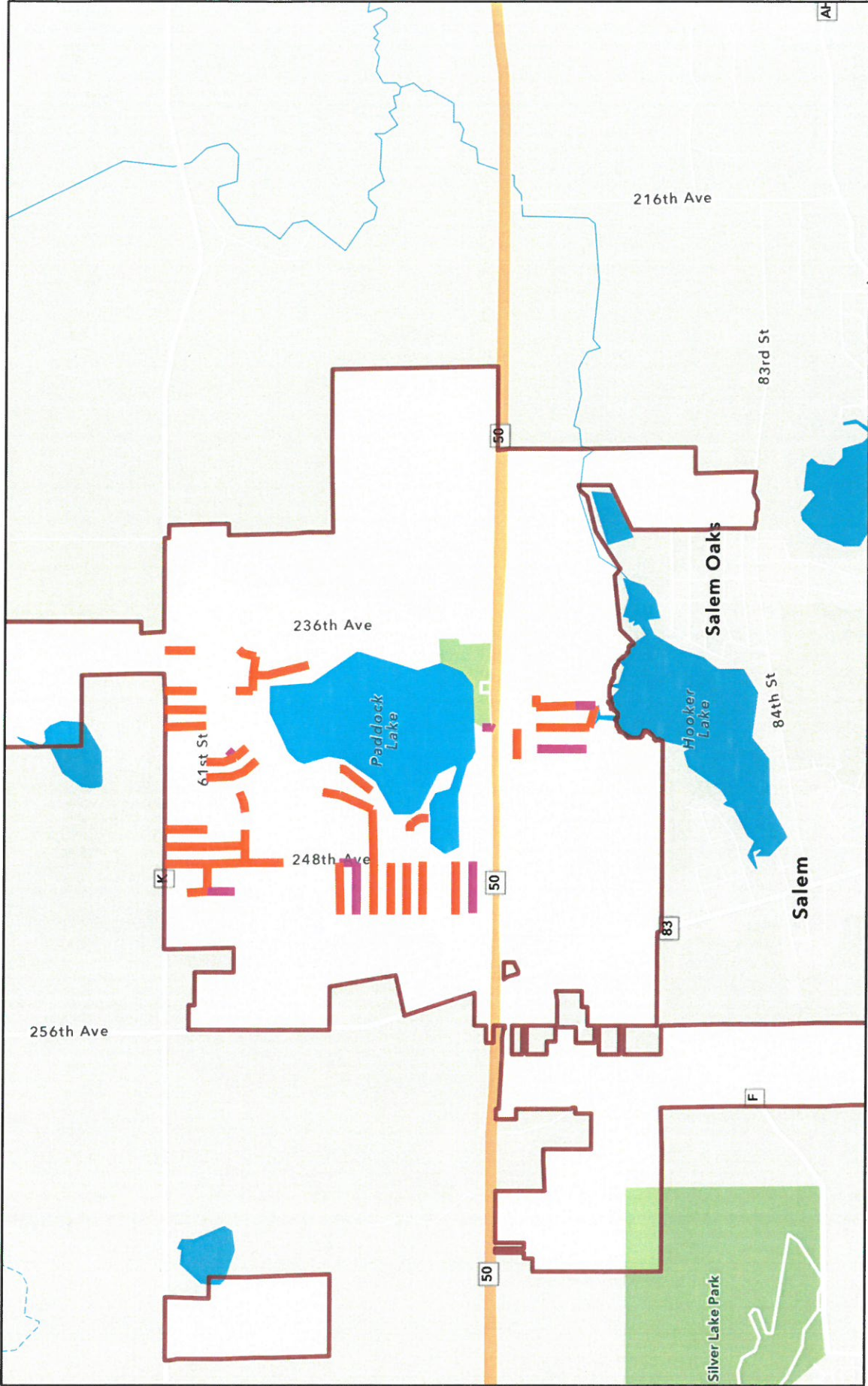
New Rating	Rating Year	County - Municipal Code	Current Pavement Rating and Year	Surface			On Route Name (Includes prefix, name, type, suffix and extension)	At Route		Toward Route	
				Type	Year	Width		At Municipal Location	Name (Includes prefix, name, type, suffix and extension)	At Offset	Toward Municipal Location
		30171	9 (2021)	70	1980	20	235th Ave		64th St	0	65th St
		30171	9 (2021)	70	1980	20	235th Ave		65th St	0	66th St
		30171	9 (2021)	70	1980	20	235th Ave		66th St	0	68th St
		30171	8 (2021)	70	1972	20	235th Ave		68th St	0	Termini
		30171	1 (2021)	35	2011	10	235th Ave		68th St	0	Termini
		30171	7 (2021)	70	2006	21	236th Ave		60th St / CTH K	158	Termini
		30171	7 (2021)	70	2006	21	236th Ave		61st St	0	61st St
		30171	7 (2021)	70	2006	21	236th Ave		62nd St	0	62nd St
		30171	7 (2021)	70	2006	21	236th Ave		62nd Pl	0	62nd Pl
		30171	6 (2021)	70	2006	21	236th Ave		65th St	0	65th St
		30171	6 (2021)	70	2006	21	236th Ave		66th St	0	66th St
		30171	6 (2021)	70	2006	22	236th Ave		68th St	0	68th St
		30171	7 (2021)	70	2006	40	236th Ave		68th St	0	Crossover STH 50
		30171	5 (2021)	70	2005	21	237th Ave		65th St	1488	Crossover STH 50
		30171	5 (2021)	70	2005	21	237th Ave		63rd St	0	63rd St
		30171	5 (2021)	70	2005	18	237th Ave		61st St	0	62nd Pl
		30171	1 (2021)	35	1964	10	238th Ave		60th St / CTH K	0	60th St / CTH K
		30171	7 (2021)	70	2005	21	238th Ave		Termini	0	Termini
		30171	5 (2021)	70	2005	21	238th Ave		63rd St	0	63rd St
		30171	6 (2021)	70	2005	21	238th Ave		65th St	0	65th St
		30171	6 (2021)	70	2005	21	238th Ave		66th St	0	66th St
		30171	5 (2021)	65	2000	20	239th Ave		60th St / CTH K	0	68th St
		30171	5 (2021)	70	2005	22	239th Ct		Termini	0	61st St
		30171	6 (2021)	70	2005	18	240th Ave		64th Pl	0	63rd St
		30171	5 (2021)	70	2005	18	240th Ave		61st St	633	61st St
		30171	5 (2021)	70	2005	22	241st Ave		60th St / CTH K	0	60th St / CTH K
		30171	6 (2021)	70	2005	22	241st Ave		61st St	0	61st St
		30171	6 (2021)	70	2005	22	241st Ave		64th St	0	64th St
		30171	5 (2021)	70	2002	24	241st Ave		77th St	0	64th Pl
		30171	4 (2021)	70	2002	24	241st Ave		77th St	0	78th St
		30171	10 (2021)	65	2004	18	241st Ct		77th St	581	78th St
		30171	8 (2021)	70	2016	24	242nd Ave		60th St / CTH K	0	61st St
		30171	5 (2021)	70	2004	17	242nd Ave		60th St / CTH K	0	61st St
		30171	5 (2021)	70	2004	17	242nd Ave		61st St	0	62nd St
		30171	4 (2021)	70	2004	12	242nd Ave		62nd St	0	64th St
		30171	4 (2021)	70	2004	12	242nd Ave		Termini	0	Crossover STH 50

NOTE: If Previous Pavement Rating and Year column blank, previous submitted rating incompatible with surface type OR no rating data available.

New Rating	Rating Year	County - Municipal Code	Current Pavement Rating and Year	Surface			On Route Name (Includes prefix, name, type, suffix and extension)	At Route		Toward Route			
				Type	Year	Width		Units (F = Feet M = Miles)	Municipal Location	Name (Includes prefix, name, type, suffix and extension)	At Offset	Municipal Location	Name (Includes prefix, name, type, suffix and extension)
		30171	8 (2021)	55	2002	18	F	242nd Ave		Crossover STH 50	0		76th St
		30171	8 (2021)	70	2015	23	F	242nd Ave		76th St	0		77th St
		30171	5 (2021)	65	2001	16	F	242nd Ave		77th St	0		78th St
		30171	5 (2021)	70	2004	18	F	243rd Ave		61st St	0		64th St
		30171	7 (2021)	70	2004	18	F	243rd Ave		64th St	0		64th Pl
		30171	5 (2021)	70	2004	16	F	243rd Ave		67th St	0		69th St
		30171	8 (2021)	70	2018	20	F	243rd Ave		74th St	0		Crossover STH 50
		30171	4 (2021)	65	2001	16	F	243rd Ave		77th St	950		78th St
		30171	7 (2021)	70	2016	27	F	243rd Ct		60th Pl	370		61st St
		30171	6 (2021)	70	2004	19	F	243rd Ct		61st St	687		63rd St
		30171	6 (2021)	70	2004	19	F	243rd Ct		63rd St	0		244th Ave
		30171	6 (2021)	70	2004	19	F	243rd Ct		244th Ave	0		64th St
		30171	7 (2021)	70	2004	19	F	243rd Ct		64th Pl / 65th St	0		66th St
		30171	6 (2021)	70	2004	19	F	243rd Ct		66th St	0		66th St
		30171	6 (2021)	70	2004	19	F	244th Ave		243rd Ct	0		Termini
		30171	5 (2021)	70	2004	18	F	244th Ave		64th St / 65th St	0		64th St / 65th St
		30171	5 (2021)	70	2004	18	F	244th Ave		66th St	0		66th St
		30171	5 (2021)	70	2004	18	F	244th Ave		67th St	0		67th St
		30171	5 (2021)	70	2004	18	F	244th Ave		68th St	0		68th St
		30171	6 (2021)	65	2000	18	F	244th Ave		Crossover STH 50	0		69th St / 245th Ave
		30171	6 (2021)	65	2000	18	F	244th Ave		77th St	0		77th St
		30171	8 (2021)	70	2016	27	F	245th Ave		60th Pl	0		78th St
		30171	6 (2021)	65	2004	16	F	245th Ave		61st St	686		61st St
		30171	6 (2021)	65	2004	16	F	245th Ave		63rd St	0		63rd St
		30171	6 (2021)	65	2004	18	F	245th Ave		63rd St	0		65th St
		30171	9 (2021)	70	2018	16	F	245th Ave		65th St	0		66th St
		30171	5 (2021)	70	2004	16	F	245th Ave		69th St / 244th Ave	0		69th Pl / 246th Ave
		30171	5 (2021)	65	2004	20	F	246th Ave		70th St	0		72nd St
		30171	6 (2021)	70	2004	17	F	246th Ave		60th St / CTH K	0		61st St
		30171	6 (2021)	70	2004	18	F	246th Ave		61st St	0		61st St
		30171	6 (2021)	70	2004	18	F	246th Ave		63rd St	0		63rd St
		30171	6 (2021)	70	2004	18	F	246th Ave		63rd St	0		65th St
		30171	9 (2021)	70	2018	16	F	246th Ave		65th St	0		66th St
		30171	6 (2021)	70	2005	24	F	246th Ave		69th Pl / 245th Ave	0		70th St
		30171	5 (2021)	70	2004	18	F	247th Ave		74th St	0		Crossover STH 50
		30171	5 (2021)	70	2004	18	F	247th Ave		60th St / CTH K	0		61st St
		30171	5 (2021)	70	2004	18	F	247th Ave		61st St	0		63rd St

NOTE: If Previous Pavement Rating and Year column blank, previous submitted rating incompatible with surface type OR no rating data available.

2024/2025 Street Improvements



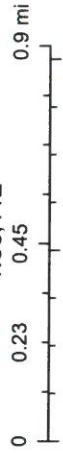
1/3/2023, 2:35:09 PM

PASER Centerlines (2021) 5

4

Village Limits

1:36,112



Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA

VILLAGE OF PADDOCK LAKE WATER MAIN REPLACEMENT SCHEDULE



WATER MAIN REPLACEMENT

- █ YEAR 1
- █ YEAR 2

Paddock Lake