



Pavement Management System

Village Board Presentation



June 8, 2020

Presented By:

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Discussion Outline

- Recommended 5-Year Plan
- Budget Analysis
- Rebuild Illinois Bond Funds
- FAU Route Projects
- Next Steps
- Summary



Recommended 5-Year Plan

- **Plan Considerations**
 - Rehabilitation Method
 - 17 different strategies and costs are analyzed
 - Strategic Value to Advancing/Delaying Projects
 - Underground Utility Projects
 - Identify possible grant projects
 - Project locations
 - Group streets geographically as possible
 - Reduces the amount of mobilization for Contractor
 - Results in decreased unit prices
 - Yearly Pavement Management Update
 - Review the latest information on available funding
 - Review the latest unit prices and make adjustments as necessary
 - Get Board approval before moving forward with new program



Recommended 5-Year Plan

5-YEAR ROADWAY REHABILITATION PLAN SUMMARY

VILLAGE OF MONTGOMERY, KANE AND KENDALL COUNTIES, ILLINOIS

JUNE 2020

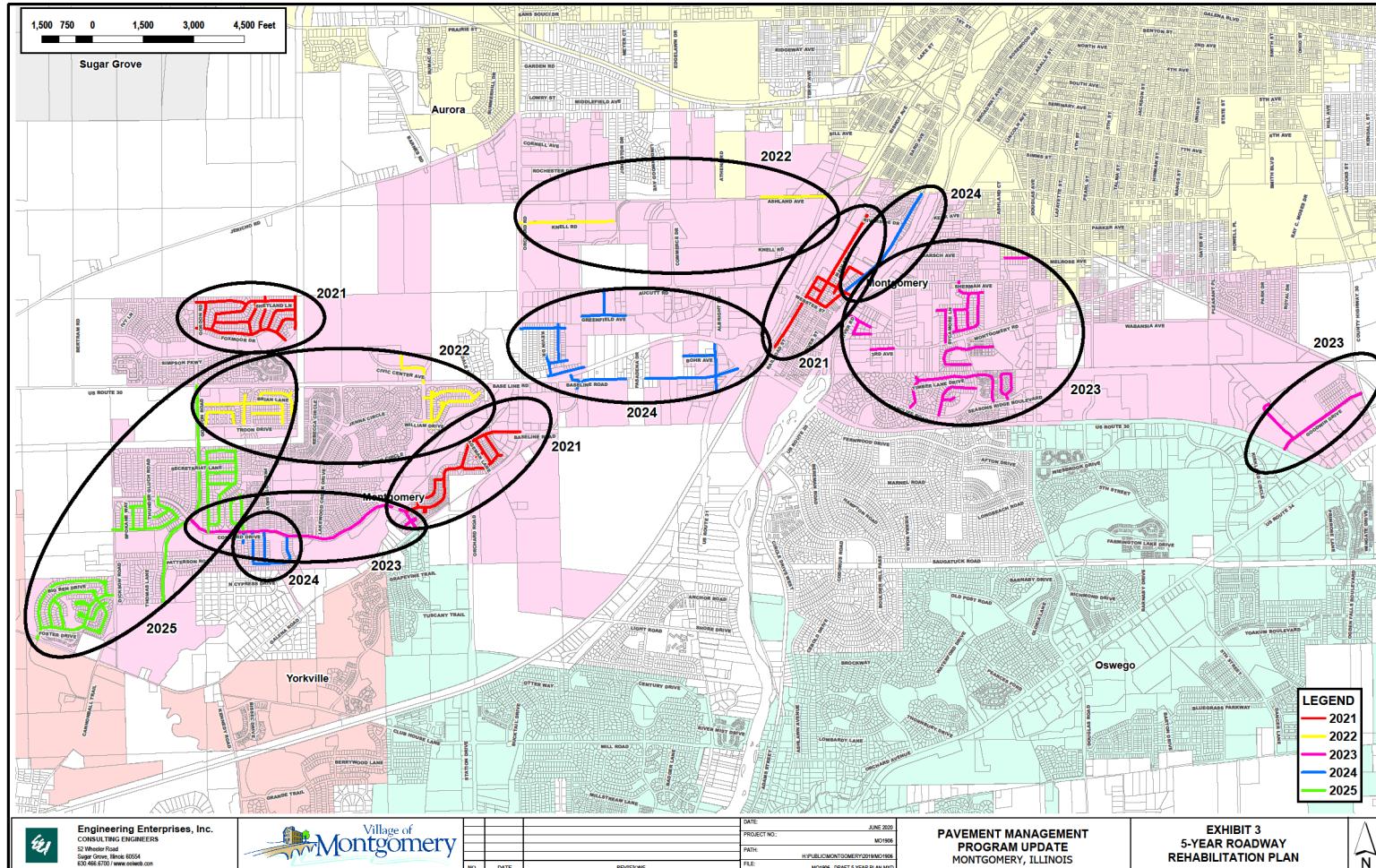
SUMMARY REHABILITATION LIST

YEAR	LENGTH (MILES)	MFT FUNDS	INFRASTRUCTURE ROADWAY FUNDS	REBUILD ILLINOIS BOND FUNDS	FEDERAL FUNDS	TOTAL COST
2021 (FY 22)	6.49	\$1,190,000	\$1,388,193	\$0	\$0	\$2,578,193
2022 (FY 23)	3.73	\$0	\$1,662,092	\$697,580	\$0	\$2,359,672
2023 (FY 24)	6.18	\$1,274,000	\$1,363,308	\$0	\$500,000	\$3,137,308
2024 (FY 25)	4.11	\$0	\$1,949,337	\$0	\$413,000	\$2,362,337
2025 (FY 26)	7.12	\$1,400,000	\$1,740,273	\$0	\$0	\$3,140,273
TOTALS:	27.63	\$3,864,000	\$8,103,203	\$697,580	\$913,000	\$13,577,783
5-YEAR AVERAGE:	5.53	\$772,800	\$1,620,641	\$139,516	\$182,600	\$2,715,557



Recommended 5-Year Plan

5-YEAR ROADWAY REHABILITATION PLAN





Recommended 5-Year Plan

2021 Recommended Plan

2021 (FY 2022) STREET REHABILITATION LIST					
STREET	FROM	TO	LENGTH	AREA (SY)	COST
ABERDEEN DRIVE	FOXMOOR DRIVE	SIMPSON PARKWAY	1,171	3,643	\$81,970
AMSTERDAM CIRCLE	MAYFIELD DRIVE	MAYFIELD DRIVE	2,000	5,556	\$116,667
AMSTERDAM COURT	AMSTERDAM CIRCLE	DEAD END	230	716	\$15,027
BALMORAL LANE	FAIRFIELD WAY	FOXMOOR DRIVE	774	2,408	\$54,180
CLINTON STREET	MAIN STREET	RAILROAD STREET	305	746	\$14,911
DARLEY DRIVE	SIMPSON PARKWAY	FOXMOOR DRIVE	784	2,439	\$54,880
FAIRFIELD WAY	GORDON ROAD	SHETLAND LANE	1,512	4,536	\$102,060
FOXMOOR DRIVE	SIMPSON PARKWAY	GORDON ROAD	2,795	8,696	\$195,650
HAGAMAN LANE	MAYFIELD DRIVE	AMSTERDAM CIRCLE	836	2,322	\$48,767
KLOCK COURT	HAGAMAN LANE	WEST END	433	1,203	\$25,258
MADISON STREET	PEARL STREET	MAIN STREET	308	821	\$16,427
MAIN STREET	WEBSTER STREET	RIVERSIDE DRIVE	2,994	10,978	\$247,005
MAYFIELD COURT	MAYFIELD DRIVE	MAYFIELD DRIVE	308	856	\$19,250
MAYFIELD DRIVE	CONCORD DRIVE	ORCHARD ROAD	4,969	15,459	\$347,830
MILL STREET	MILL STREET BRIDGE	RAILROAD STREET	1,155	4,512	\$101,520
NEWPORT LANE	NORTH END	FOXMOOR DRIVE	1,089	3,388	\$76,230
PEARL STREET	SOUTH END	TAYLOR STREET	829	2,087	\$41,738
RAILROAD STREET	SOUTH END	MILL STREET	2,336	5,562	\$111,244
RIVER STREET	WEBSTER STREET	MILL STREET	699	3,107	\$70,987
ROXBURY LANE	MAYFIELD DRIVE	MAYFIELD DRIVE	1,508	4,692	\$105,560
SHETLAND LANE	SIMPSON PARKWAY	FOXMOOR DRIVE	3,033	9,436	\$207,592
SIMPSON PARKWAY	NORTH END	SIMPSON PARKWAY	916	3,664	\$80,608
TAYLOR STREET	PEARL STREET	RIVER STREET	489	1,250	\$24,993
TURNBERRY LANE	WICK WAY	SHETLAND LANE	1,086	3,379	\$77,034
WEBSTER STREET	RAILROAD STREET	RIVER STREET	653	2,902	\$66,751
WICK WAY	SHETLAND LANE	FOXMOOR DRIVE	1,044	3,248	\$74,054
MISC. VILLAGE WIDE PREVENTATIVE MAINTENANCE (CRACK SEALING, RECLAMITE, PATCHING)			N/A	N/A	\$200,000
LENGTH (MILES):			6.49	107,606	\$2,578,193



Recommended 5-Year Plan

2022 Recommended Plan

2022 (FY 2023) STREET REHABILITATION LIST					
STREET	FROM	TO	LENGTH	AREA (SY)	COST
ACCESS ROAD	CIVIC CENTER AVENUE	NORTH END	538	1,435	\$34,330
ADAM AVENUE	TROON DRIVE	GORDON ROAD	3,071	9,554	\$228,625
ASHLAND AVENUE	IL ROUTE 31	WEST END	1,892	6,307	\$249,335
BRIAN COURT	BRIAN LANE	NORTH END	154	479	\$11,465
BRIAN LANE	ADAM AVENUE	TROON DRIVE	1,988	6,185	\$147,999
CHAD COURT	NORTH END	ADAM AVENUE	312	971	\$23,530
CHAD LANE	ADAM AVENUE	TROON DRIVE	597	1,857	\$45,024
CIVIC CENTER AVENUE	ACCESS ROAD	GRIFFIN DRIVE	712	3,797	\$92,052
EMMA AVENUE	KATE DRIVE	WILLIAM DRIVE	669	1,858	\$42,535
EMMA COURT	WILLIAM DRIVE	WILLIAM DRIVE	387	1,075	\$24,605
FRANCES LANE	PREScott DRIVE	ADAM AVENUE	892	2,775	\$66,406
GALLANT FOX CIRCLE	TROON DRIVE	TROON DRIVE	892	2,775	\$111,074
GRIFFIN DRIVE	US ROUTE 30	CIVIC CENTER AVENUE	387	2,021	\$52,566
KATE COURT	WILLIAM DRIVE	NORTH END	338	1,052	\$24,069
KATE DRIVE	GRIFFIN DRIVE	WILLIAM DRIVE	1,626	6,143	\$140,598
KNELL ROAD	ORCHARD ROAD	EAST END	2,787	11,148	\$697,580
SAND HILL COURT	KATE DRIVE	KATE DRIVE	328	911	\$19,906
WILLIAM COURT	WILLIAM DRIVE	WILLIAM DRIVE	256	796	\$17,815
WILLIAM DRIVE	GRIFFIN DRIVE	KATE DRIVE	1,888	6,713	\$150,158
MISC. VILLAGE WIDE PREVENTATIVE MAINTENANCE (CRACK SEALING, RECLAMITE, PATCHING)			N/A	N/A	\$180,000
LENGTH (MILES):			3.73	67,852	\$2,359,672

ORANGE HIGHLIGHT = STREETS TO BE PAID FOR WITH REBUILD ILLINOIS BOND FUNDS



Recommended 5-Year Plan

2023 Recommended Plan

2023 (FY 2024) STREET REHABILITATION LIST					
STREET	FROM	TO	LENGTH	AREA (SY)	COST
1ST AVENUE	2ND AVENUE	EAST RIVER ROAD	738	1,968	\$48,035
3RD AVENUE	2ND AVENUE	BROADWAY AVENUE	649	1,298	\$31,681
ARBOR RIDGE DRIVE	WALNUT RIDGE DRIVE	SYCAMORE LANE	991	3,083	\$75,252
CATHERINE LANE	1ST AVENUE	2ND AVENUE	932	2,485	\$60,661
CONCORD COURT	CONCORD DRIVE	CONCORD DRIVE	580	1,804	\$57,193
CONCORD DRIVE	GALENA ROAD	GORDON ROAD	7,360	31,820	\$1,008,807
DEER RUN DRIVE	BRIARCLIFF ROAD	BRIARCLIFF ROAD	1,502	4,172	\$101,835
EDGEWATER COURT	DEER RUN DRIVE	EAST END	531	1,475	\$36,001
GOODWIN DRIVE	US ROUTE 30	HILL AVENUE	3,191	18,437	\$440,221
HAMLET CIRCLE	SEASONS RIDGE BOULEVARD	HAMLET CIRCLE	1,774	4,928	\$120,276
HICKORY RIDGE DRIVE	PINE RIDGE LANE	ARBOR RIDGE DRIVE	1,060	3,298	\$80,491
HOLMES PLACE	MANNING AVENUE	BRIARCLIFF ROAD	794	2,117	\$46,062
LEXINGTON DRIVE	BRIARCLIFF ROAD	SEASONS RIDGE BOULEVARD	1,269	3,384	\$82,596
MANNING AVENUE	HOLMES PLACE	EAST END	1,853	6,383	\$138,851
MAPLE RIDGE LANE	WEST END	HICKORY RIDGE DRIVE	925	2,878	\$70,240
MELROSE AVENUE	ELLIOT AVENUE	DOUGLAS AVENUE	649	1,731	\$42,242
OAK RIDGE LANE	MAPLE RIDGE LANE	ARBOR RIDGE DRIVE	653	2,032	\$49,586
PINE RIDGE LANE	LINCOLN AVENUE	EAST END	967	2,256	\$55,072
READING DRIVE	GOODWIN DRIVE	DEAD END	1,420	4,420	\$110,228
SYCAMORE LANE	MONTGOMERY ROAD	MAPLE RIDGE LANE	955	2,971	\$72,518
TIMBER LANE DRIVE	BRIARCLIFF ROAD	BRIARCLIFF ROAD	2,578	6,875	\$167,795
WALNUT RIDGE DRIVE	ARBOR RIDGE DRIVE	PINE RIDGE LANE	984	3,061	\$74,720
WINDBURY COURT	TIMBER LANE DRIVE	NORTH END	289	899	\$21,945
MISC. VILLAGE WIDE PREVENTATIVE MAINTENANCE (CRACK SEALING, RECLAMITE, PATCHING)			N/A	N/A	\$145,000
	LENGTH (MILES):	6.18	113,775	\$3,137,308	

ORANGE HIGHLIGHT = CONCORD DRIVE APPLIED FOR FEDERAL FUNDS WHICH HAS A 75/25 SPLIT UP TO \$500,000 MAX



Recommended 5-Year Plan

2024 Recommended Plan

2024 (FY 2025) STREET REHABILITATION LIST

STREET	FROM	TO	LENGTH	AREA (SY)	COST
ALBRIGHT ROAD	NORTH END	IL ROUTE 31	1,439	3,838	\$91,380
BASELINE ROAD	IL ROUTE 31	US ROUTE 30	4,348	10,628	\$590,000
BOHR AVENUE	WEST END	ALBRIGHT ROAD	958	3,513	\$190,111
BRENTWOOD AVENUE	VILLAGE LIMITS	VICTORIA DRIVE	545	1,574	\$40,902
COUNTRYSIDE DRIVE	BRENTWOOD AVENUE	ORCHARD ROAD	1,318	3,661	\$95,110
DEERPOINT DRIVE	MANCHESTER DRIVE	CONCORD DRIVE	1,033	3,214	\$81,749
GREENFIELD AVENUE	WEST END	EAST END	1,273	3,395	\$77,164
HARTFIELD DRIVE	CONCORD DRIVE	MANCHESTER DRIVE	991	3,083	\$77,758
KEVIN DRIVE	OAKTON ROAD	VILLAGE LIMITS	662	1,765	\$43,950
MANCHESTER DRIVE	HARTFIELD DRIVE	DEERPOINT DRIVE	849	2,641	\$67,188
MULBERRY DRIVE	BRENTWOOD AVENUE	NORTH END	1,108	3,078	\$76,624
OAKTON ROAD	KEVIN DRIVE	EAST END	1,204	3,077	\$79,933
PRAIRIE CROSSING DRIVE	MANCHESTER DRIVE	CONCORD DRIVE	971	3,021	\$76,843
RIVER STREET	MILL STREET	ASHLAND AVENUE	3,755	12,714	\$308,356
SCHEURING PLACE	GREENFIELD AVENUE	AUCUTT ROAD	771	2,142	\$53,319
SIMON LANE	PATTERSON ROAD	CONCORD DRIVE	462	1,283	\$31,950
BLACKBERRY HEIGHTS DRAINAGE IMPROVEMENTS			N/A	N/A	\$200,000
MISC. VILLAGE WIDE PREVENTATIVE MAINTENANCE (CRACK SEALING, RECLAMITE, PATCHING)			N/A	N/A	\$180,000
LENGTH (MILES):			4.11	62,627	\$2,362,337

ORANGE HIGHLIGHT = BASELINE ROAD APPLIED FOR FEDERAL FUNDS WHICH HAS A 75/25 SPLIT UP TO \$500,000 MAX



Recommended 5-Year Plan

2025 Recommended Plan

2025 (FY 2026) STREET REHABILITATION LIST					
STREET	FROM	TO	LENGTH	AREA (SY)	COST
BIG BEND COURT	BIG BEND DRIVE	BIG BEND DRIVE	197	613	\$15,225
BIG BEND DRIVE	GALENA ROAD	FOSTER DRIVE	3,670	11,418	\$283,638
BUCHANAN LANE	THUNDER GULCH ROAD	VENETIAN WAY	781	2,169	\$53,893
CHARISMATIC LANE	SPOKANE WAY	VENETIAN WAY	669	1,858	\$46,164
CLOUD CROFT COURT	FOSTER DRIVE	WEST END	515	1,431	\$35,538
FOSTER DRIVE	DICKSON ROAD	BIG BEND DRIVE	2,703	8,409	\$208,903
GAYLORD LANE	SECRETARIAT LANE	RIVA RIDGE ROAD	1,138	3,540	\$87,951
GORDON ROAD	SOUTH END	US ROUTE 30	5,959	28,129	\$658,394
INDIAN CLIFFS LANE	FOSTER DRIVE	NORTH END	955	2,653	\$65,900
IRON LEIGE LANE	WHITE ROSE DRIVE	RIVA RIDGE ROAD	708	1,967	\$48,856
PECOS CIRCLE	FOSTER DRIVE	FOSTER DRIVE	3,837	10,829	\$269,009
PECOS COURT NORTH	PECOS CIRCLE	PECOS CIRCLE	187	519	\$12,904
PECOS COURT SOUTH	PECOS CIRCLE	PECOS CIRCLE	223	619	\$15,388
RIVA RIDGE ROAD	GAYLORD LANE	WHITE ROSE DRIVE	2,574	8,008	\$198,933
SECRETARIAT LANE	GORDON ROAD	RIVA RIDGE ROAD	1,106	3,318	\$82,425
SILVER CHARM LANE	WHITE ROSE DRIVE	RIVA RIDGE ROAD	833	2,314	\$57,481
SILVER CITY COURT	WEST END	FOSTER DRIVE	853	2,369	\$58,861
SIMON COURT	SIR BARTON DRIVE	SIR BARTON DRIVE	207	575	\$14,284
SIMON LANE	CONCORD DRIVE	SIMON COURT	1,059	2,942	\$73,076
SIR BARTON LANE	SIMON COURT	SIMON DRIVE	1,220	3,389	\$84,186
SPOKANE WAY	THUNDER GULCH ROAD	VENETIAN WAY	1,312	4,082	\$101,399
THUNDER GULCH ROAD	VENETIAN WAY	CONCORD DRIVE	928	2,887	\$71,721
VENETIAN WAY	DICKSON ROAD	CONCORD DRIVE	2,915	9,069	\$225,288
WHITE ROSE DRIVE	CONCORD DRIVE	SECRETARIAT LANE	2,067	6,431	\$159,749
WHITE SANDS LANE	PECOS CIRCLE	FOSTER DRIVE	958	2,661	\$66,107
MISC. VILLAGE WIDE PREVENTATIVE MAINTENANCE (CRACK SEALING, RECLAMITE, PATCHING)			N/A	N/A	\$145,000
LENGTH (MILES):			7.12	122,199	\$3,140,273



Budget Analysis

- Budget Approximately \$2.716 M Annually Over the Next 5 Years
 - Preventative Maintenance
 - Milling and Resurfacing
 - Reconstruction
- Suggested Program Includes:
 - Baseline Road LAFO (Federal Grant)
 - Concord Drive LAFO (Federal Grant)
 - Knell Road Reconstruction (Rebuild Illinois Bond Grant)



Budget Analysis

- 2016-2020 5-Year Plan
 - Annual expenditure was \$2,984,384
 - \$2,476,625 in IRP funds
 - \$342,656 in MFT funds
 - \$165,103 in Federal Grants
 - 35.4 miles of resurfacing
- Proposed 2021-2025 5-Year Plan
 - Annual expenditure projected at \$2,715,557
 - \$1,620,641 in IRP funds
 - \$772,800 in MFT funds
 - \$139,516 in Rebuild Illinois Bond Funds
 - \$182,600 in Federal Grants
 - 27.63 miles of resurfacing

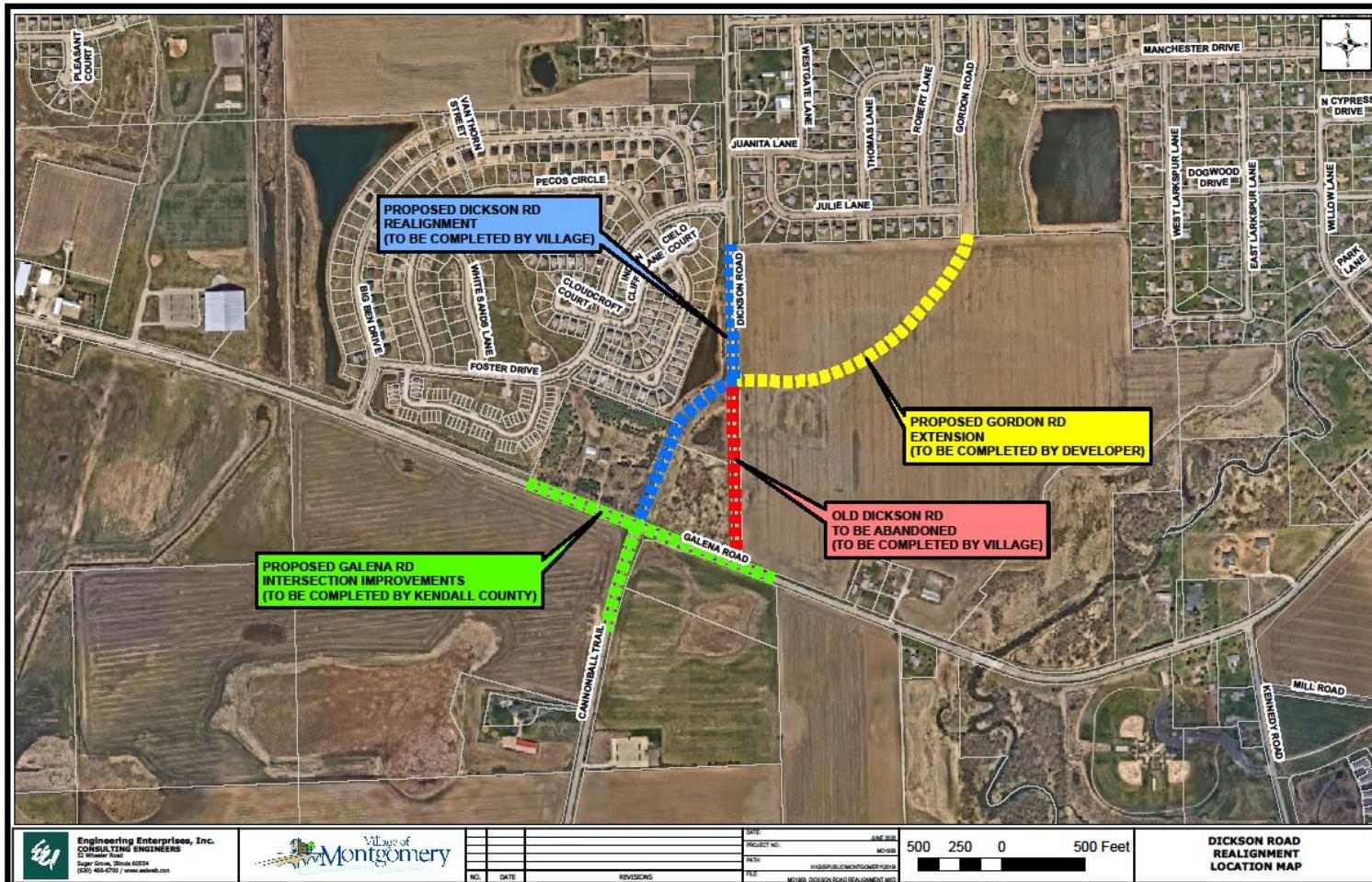


Rebuild Illinois Bond Funds

- General Obligation Bonds authorized by Governor's REBUILD Illinois Capital Program to provide municipalities with funds for capital projects.
- Must be used on bondable projects
 - Construction of new roadway
 - Reconstruction of existing roadway
- Village will receive approximately \$1.215M over the next 3 years
- Identified Projects
 - Knell Road Reconstruction (Orchard Road to East End)
 - Dickson Road Realignment (See Location Map on Next Slide)

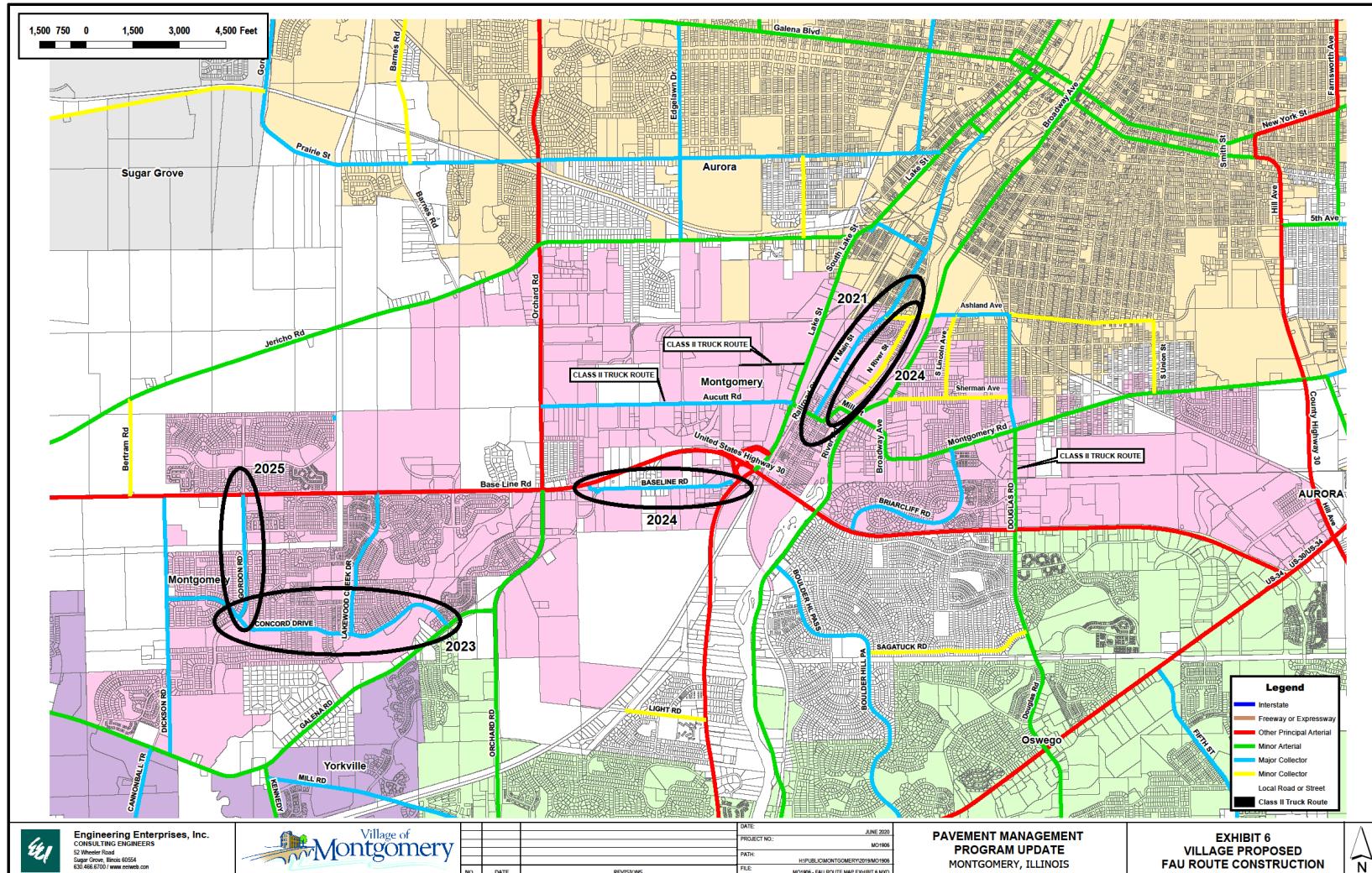


Rebuild Illinois Bond Funds





FAU Route Projects





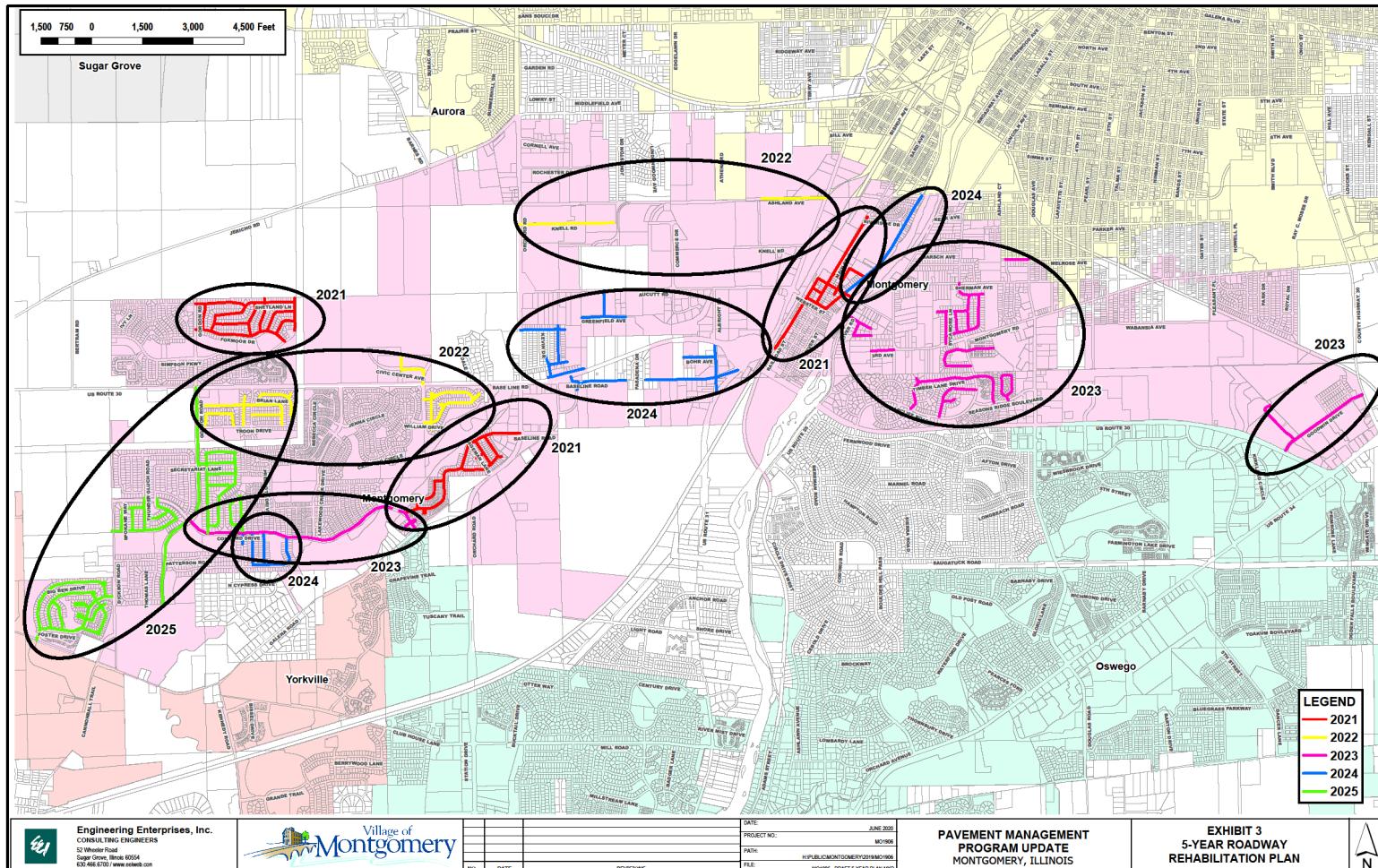
Summary

- Overall Village roadway score maintained at 80
- Need to resurface approximately 5 miles of roadway a year to maintain a 15 year cycle
- Continue to focus on preventative maintenance to extend pavement life
- Look for most cost effective improvements on each roadway
- Continue to explore additional revenue sources



Next Steps

- Draft Report & Proposed 5-Year Plan for Board Review at 6/22 Board Meeting
- Approve Final Report & Proposed 5-Year Plan at 7/13 Board Meeting
- Present Engineering Agreement for 2021 Design at 7/27 Board Meeting
- Open Bids for Construction in February 2021
- Construction in April 2021



QUESTIONS?