

Proposed 2021-2026 Transportation Improvement Program



Part 2: Funding and Projects

**Shane E. Schneider, P.E. County Engineer | Director of Transportation
Public Works, Planning and Transportation Committee**

June 30, 2021

Agenda

- **Schedule**
- **Statutory Requirements**
- **Revenue Sources and Assumptions**
- **Funding Distribution**
- **Preservation Projects**
- **Modernization Projects**
- **Non-motorized Projects**
- **Expansion Projects**

Presentation Schedule



- April 28, 2021 Part 1A: Annual Department Update
 Part 1B: Program Overview and Priorities

- **June 30, 2021 Part 2: Funding and Projects**

Statutory Requirements



Illinois Road and Bridge Laws (605 ILCS 5/5-301)

State law directs the County Engineer to prepare the 5-Year Transportation Improvement Program (TIP) annually by July 1 and file with the Illinois Department of Transportation (IDOT)

The 5-Year TIP is the scheduling component of the 20-Year Long Range Plan (Lake County's 2040 Transportation Plan)

County Funding Sources

5 Revenue Streams Support Transportation Capital Projects:



Property Tax Based

- County Bridge Fund (CB)
- Matching Tax (MT)



Sales Tax Based

- RTA ¼% Sales Tax (ST)



User Fee Based

- Motor Fuel Tax (MFT)
- County Option Motor Fuel Tax (CMFT)

A diverse mix of funding streams helps ensure sustainability and predictability of transportation funding for long-term capital programming.

Leverage Outside Funding

Federal and State Sources Regularly Pursued:

- **Illinois Commerce Commission (ICC) Railroad Grade Crossing Protection**
- **Congestion Mitigation and Air Quality (CMAQ)**
- **Illinois Transportation Enhancement Program (ITEP)**
- **Transportation Alternatives Program (TAP)**
- **Surface Transportation Block Grant (STPL, STPC, STPE)**
- **Mobility of Seniors and Individuals with Disabilities 5310 (Paratransit)**
- **Highway Bridge Program (HBP)**
- **Highway Safety Improvement Program (HSIP)**
- **RAISE (formerly TIGER/BUILD)**
- **DCEO, Rebuild Illinois Bonds**
- **More**

Revenue Assumptions



County Funds

- **CB, MT:** No growth projected
- **MFT:** FY21 10% reduction from 2020-2025 TIP projection;
FY22 back to pre-COVID estimates; 1% annual growth
- **ST:** FY21 10% reduction from 2020-2025 TIP projections;
FY22 back to pre-COVID estimates, 2% annual growth
- **CMFT:** Effective July 1, 2021; 1% annual growth

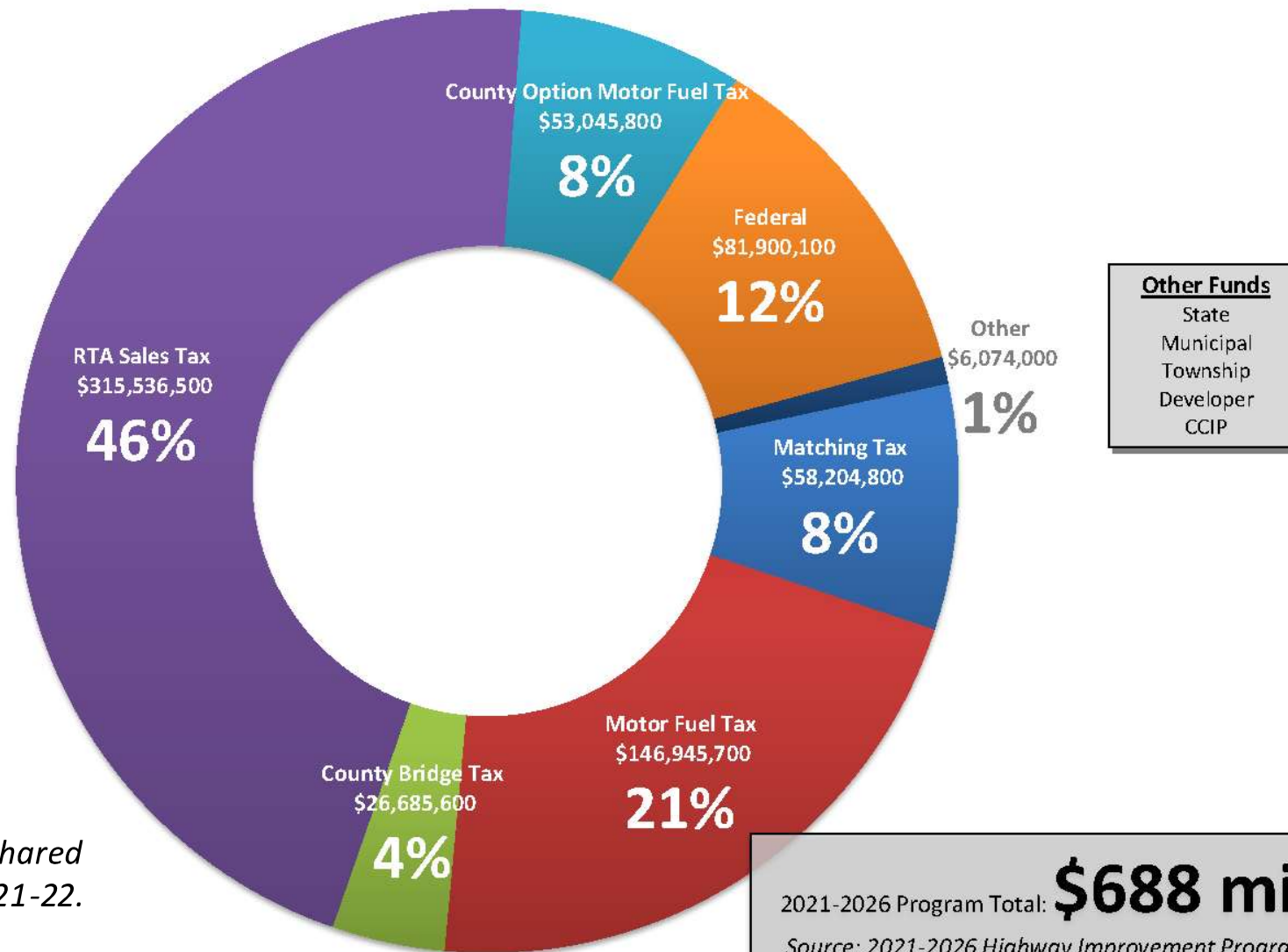
State and Federal Funds

- **Rebuild Illinois MFT Bonds:** \$8M in FY21 and FY22
- **Various Federal Sources:** \$46M awarded; \$36M anticipated

Fiscal Constraint

Lake County's Five-Year Transportation Improvement Program is fiscally constrained based on the expected revenue over the planning horizon.

Fund Sources | 2021-2026



Note: MFT includes \$16M in State-shared Rebuild Illinois bond funds for FY2021-22.

06.30.2021

Source: 2021-2026 Highway Improvement Program, CPMS v.5a

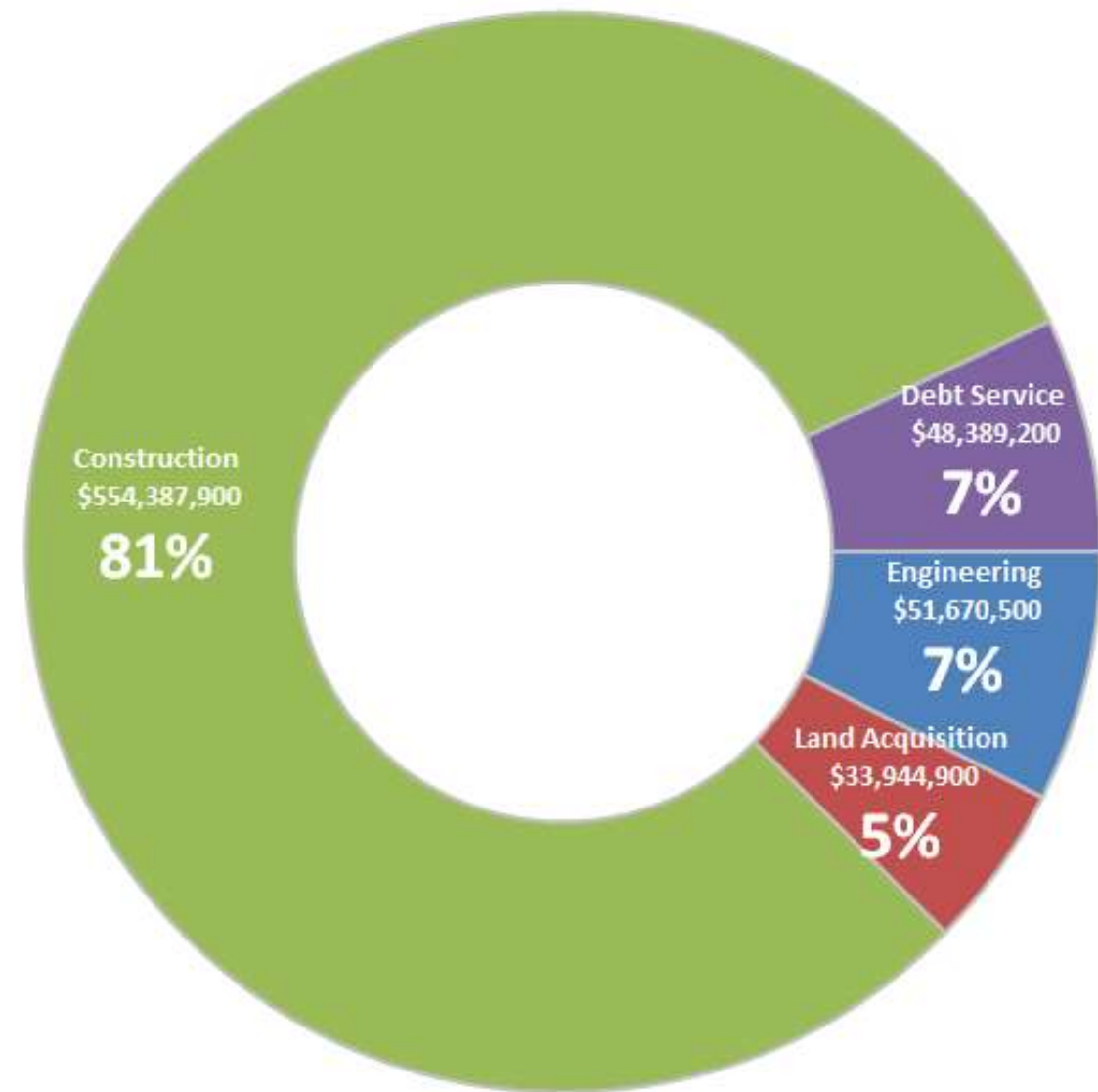
Balancing Program Needs

Funds Distribution | 2021-2026 by program category



Program by Phase | 2021-2026

**81% of the 5-Year Program
Revenue Funds Construction**



System Management Priorities

1. Preservation

- Keep roads, bridges, drainage systems, and other assets in good condition

2. Modernization

- Reduce delays and increase safety
- Non-motorized accommodation
- Smart roads

3. Expansion

- Accommodate regional traffic and economic development
- Countywide Paratransit

Priority One: Preservation

- **Project set developed using:**
 - **ARGUS pavement management recommendations**
 - **Asset inventories**
 - **Unit cost information**
 - **Industry standards**
 - **Innovative techniques**
- **Typically resurfacing, reconstruction, patching, drainage improvements, and maintenance activities**



What's New in Preservation?

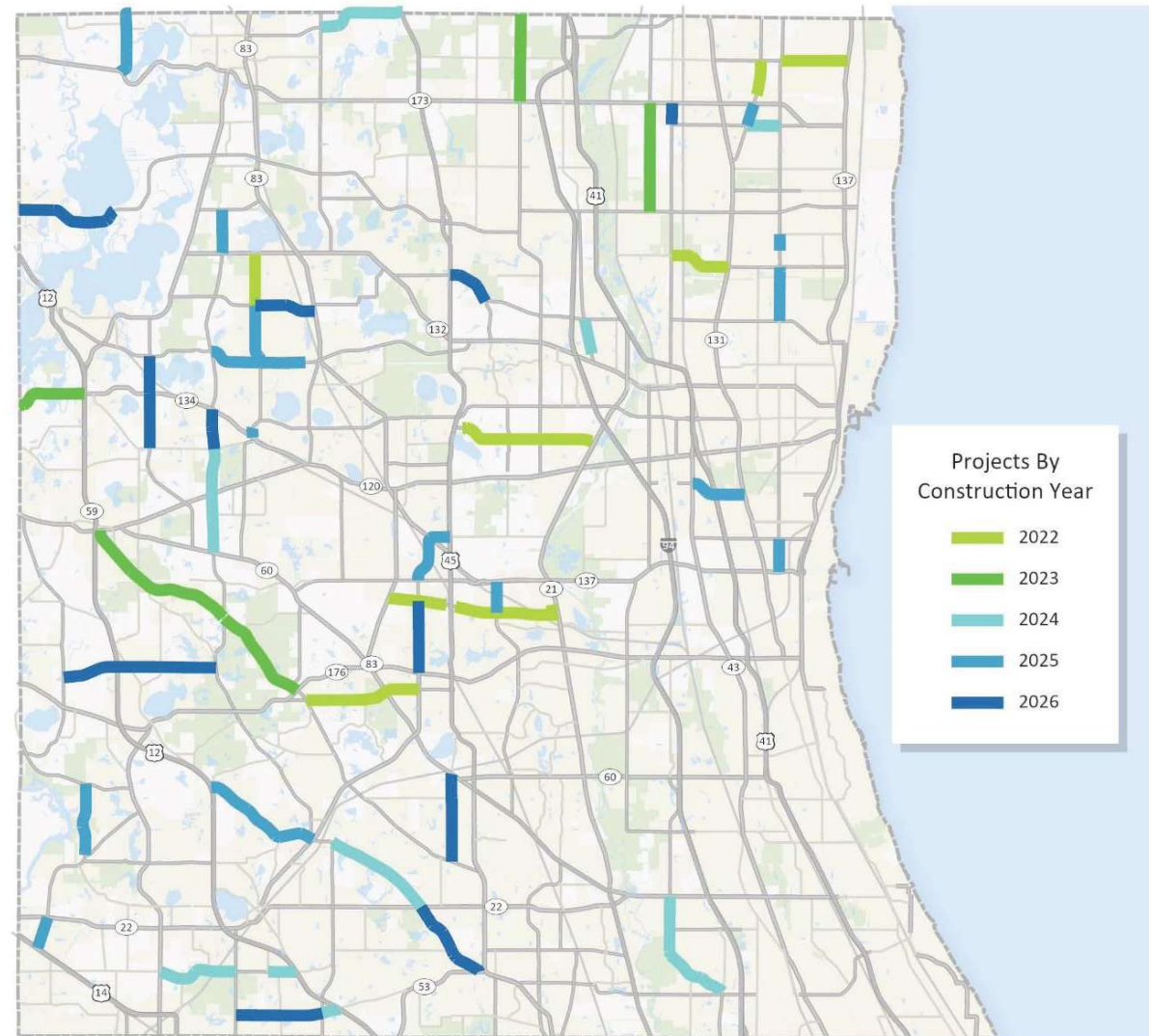


- **Roadway Resurfacing Projects:**
 - 21st St, Kenosha Rd – Lewis Ave
 - Butterfield Rd, IL137 – Winchester Rd
 - Casey Rd, IL137 - US45
 - County Farm Rd, Winchester Rd – Bull Creek Dr
 - Fairfield Rd, Nippersink Rd - IL60
 - Gilmer Rd, IL120 - IL176
 - Lewis Ave, Beach Rd – Everett Rd
 - Old McHenry Rd, IL22 - IL53
 - Wilson Rd, Rollins Rd – Prairie View Dr
- **Other Work at Various Locations:**
 - Bridge repairs
 - Crack sealing
 - Microsurfacing
 - Pavement patching
 - Pavement rejuvenator
 - Pavement markers and markings
 - Drainage system cleaning
 - Culvert repair or replacement
 - Retaining wall repair or replacement
 - Roadway signs
 - Curb and gutter repair or replacement
 - Sidewalk and ADA curb ramps
 - Guardrail repair or replacement
 - Township road district projects

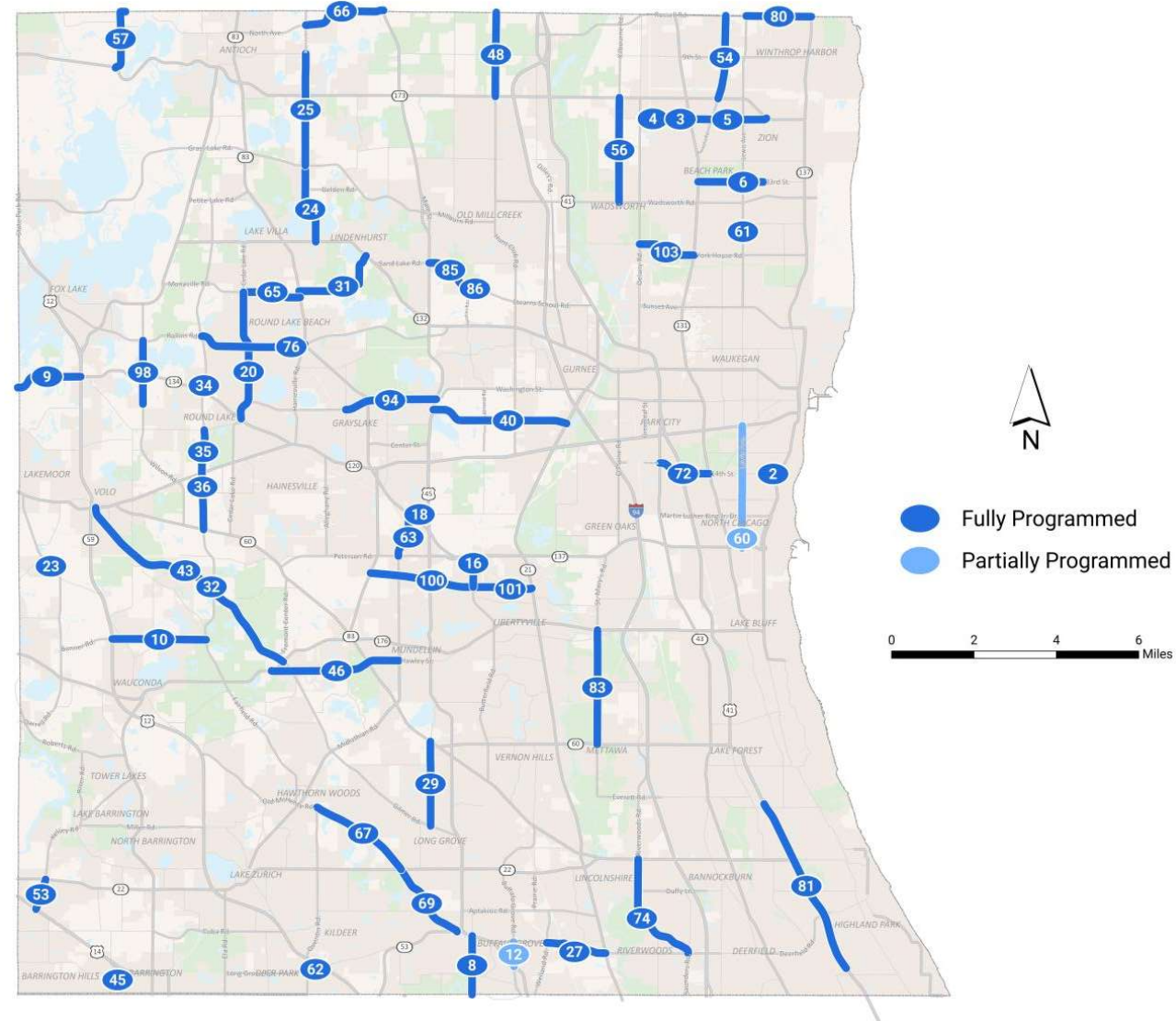
Resurfacing Projects

Pavement Management Program Recommended

- **2022: 16.6 miles**
- **2023: 12.4 miles**
- **2024: 14.4 miles**
- **2025: 15.7 miles**
- **2026: 22.3 miles**



Preservation | 2021 - 2025



Preservation Projects



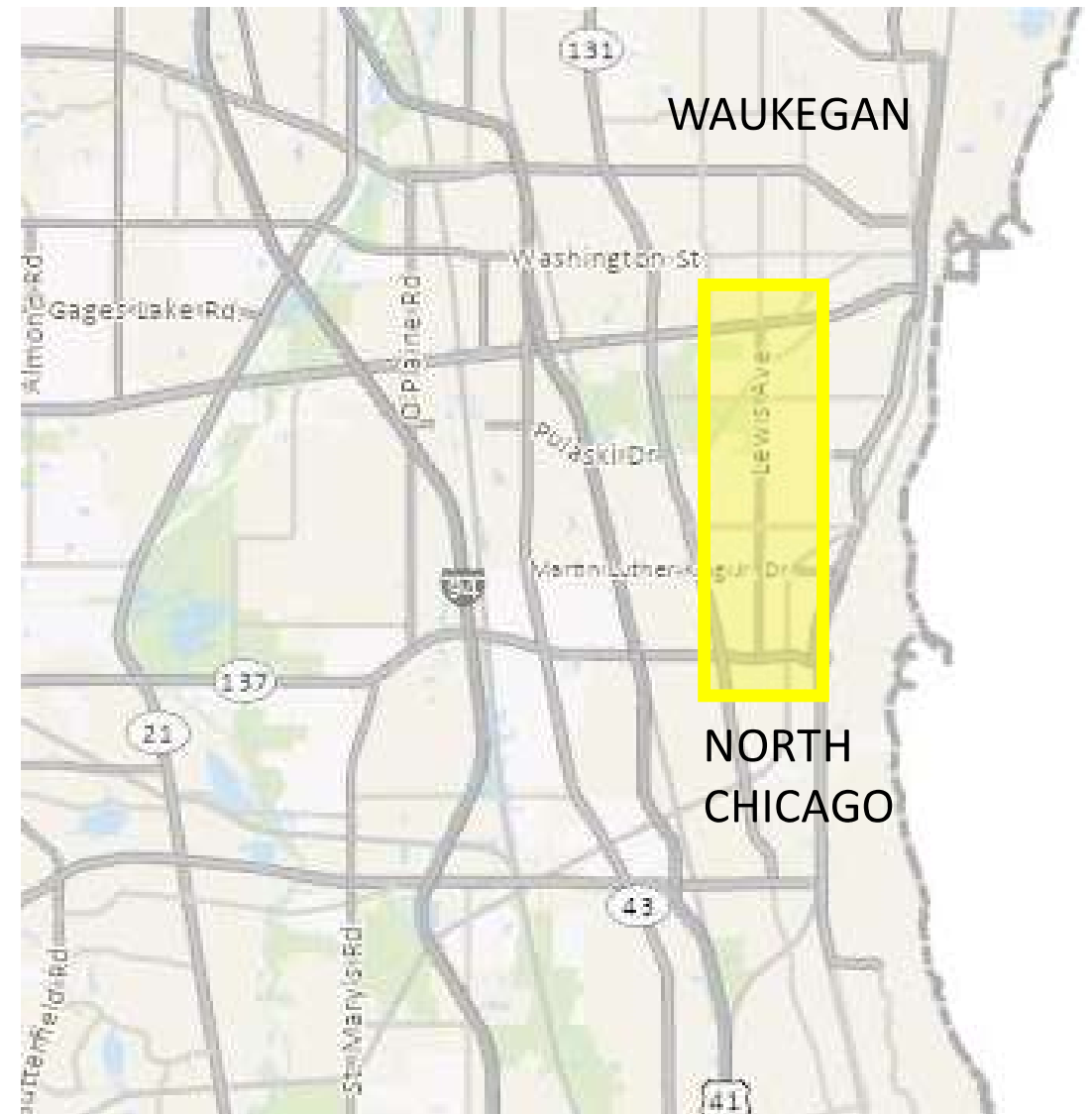
Preservation Projects			
Map ID	Route	Work Type	Program Year
2	14th St.	Resurfacing	2021
3	21st St.	Resurfacing	2021
4	21st St.	Culvert Replacement	2021
5	21st St.*	Resurfacing	2024
6	33rd St.	Resurfacing	2021
8	Arlington Heights Rd.	Reconstruction	2024
9	Big Hollow Rd.	Resurfacing	2023
10	Bonner Rd.	Resurfacing	2025
12	Buffalo Grove Rd.	Reconstruction	Post-2026
16	Butterfield Rd.*	Resurfacing	2025
18	Casey Rd.*	Resurfacing	2025
20	Cedar Lake Rd.	Resurfacing	2025
23	Darrell Rd.	Culvert Replacement	2021
24	Deep Lake Rd.	Resurfacing	2021
25	Deep Lake Rd.	Resurfacing	2021
27	Deerfield Pkwy.	Full Depth Patching	2021
29	Diamond Lake Rd.	Resurfacing	2026
31	Engle Dr.	Resurfacing	2021
32	Fairfield & Gilmer Connector Ramp	Resurfacing	2023
34	Fairfield Rd.	Culvert Replacement	2022
35	Fairfield Rd.	Resurfacing	2024
36	Fairfield Rd.*	Resurfacing	2024
40	Gages Lake Rd.	Resurfacing	2022
43	Gilmer Rd.*	Resurfacing	2023
45	Hart Rd.	Culvert Replacement	2022

46	Hawley St.	Resurfacing	2022
48	Hunt Club Rd.	Resurfacing	2023
53	Kelsey Rd.	Resurfacing	2025
54	Kenosha Rd.	Resurfacing	2021
56	Kilbourne Rd.	Resurfacing	2023
57	Lake Ave.	Resurfacing	2025
60	Lewis Ave.	Reconstruction	Post-2026
61	Lewis Ave.*	Resurfacing	2025
62	Long Grove Rd.	Resurfacing	2024
63	Midlothian Rd.	Resurfacing	2025
65	Monaville Rd.	Resurfacing	2026
66	North Ave.	Resurfacing	2024
67	Old McHenry Rd.	Resurfacing	2024
69	Old McHenry Rd.*	Resurfacing	2026
72	Pulaski Dr.	Resurfacing	2025
74	Riverwoods Rd.	Resurfacing	2024
76	Rollins Rd.	Resurfacing	2025
80	Russell Rd.	Resurfacing	2021
81	Skokie Valley Bike Path	Culvert Repairs	2021
83	St. Mary's Rd.	Resurfacing	2021
85	Stearns School Rd.	Resurfacing	2026
86	Stearns School Rd.*	Culvert Replacement	2021
94	Washington St.	Resurfacing	2021
98	Wilson Rd.*	Resurfacing	2026
100	Winchester Rd.	Resurfacing	2022
101	Winchester Rd.	Culvert Replacement	2022
103	York House Rd.	Resurfacing	2022

* New to this year's Five Year Program

Project Highlight: **Lewis Ave Study**

- Phase I Engineering begins in FY2022
- Corridor Study Area: IL137 – Belvidere Rd
- Targeting improvements to operations, safety, non-motorized accommodations, and intersections



Priority Two: Modernization

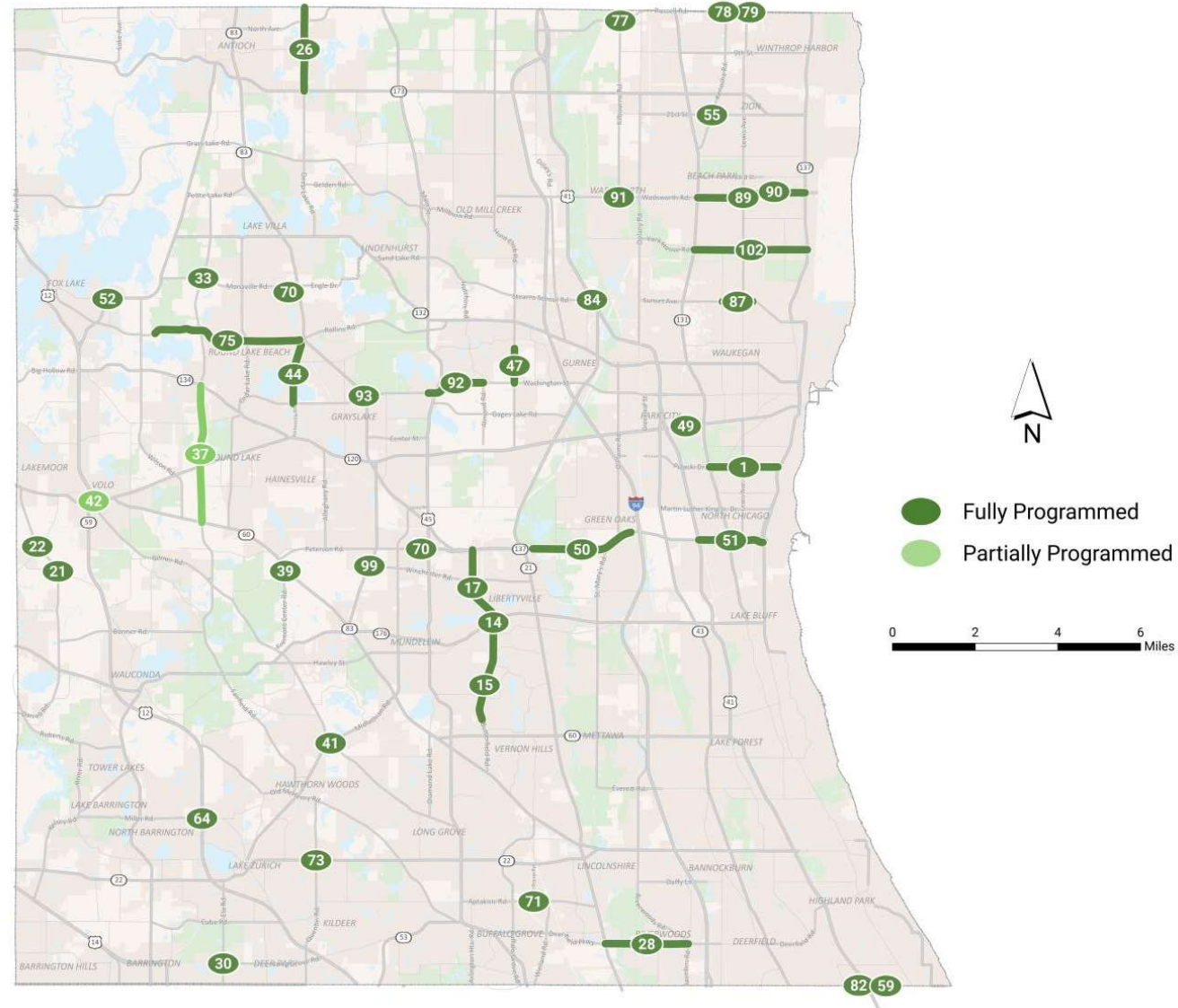
- **Project set developed using:**
 - **Traffic and safety analysis**
 - **Level of Service (LOS) data**
 - **PASSAGE data**
 - **2040 bike and pedestrian priorities**
 - **Non-motorized policy**
 - **Bike/Pedestrian gap analysis**
- **Typically intersection and safety improvements, bike and pedestrian accommodations**



What's New in Modernization?

- **Fairfield Rd Corridor, IL134 to IL60: Phase 1 study**
- **Peterson Rd & Monaville Rd at CNRR: Feasibility study**
- **Rollins Rd & Washington St: Non-motorized travel gaps**
- **Butterfield Rd: ADA curb ramps**
- **Lake Cook Rd Bike Path (Engineering and Construction)**
- **Russell Rd at Kilbourne Intersection Improvement (Construction)**
- **Russell Rd at Kenosha Intersection Improvement (Construction)**
- **Russell Rd at Lewis Intersection Improvement (Construction)**
- **PASSAGE Enhancements (Various locations)**
- **PASSAGE Signals (Various locations)**
- **Pedestrian crossings safety study**

Modernization | 2021 - 2026



Modernization Projects



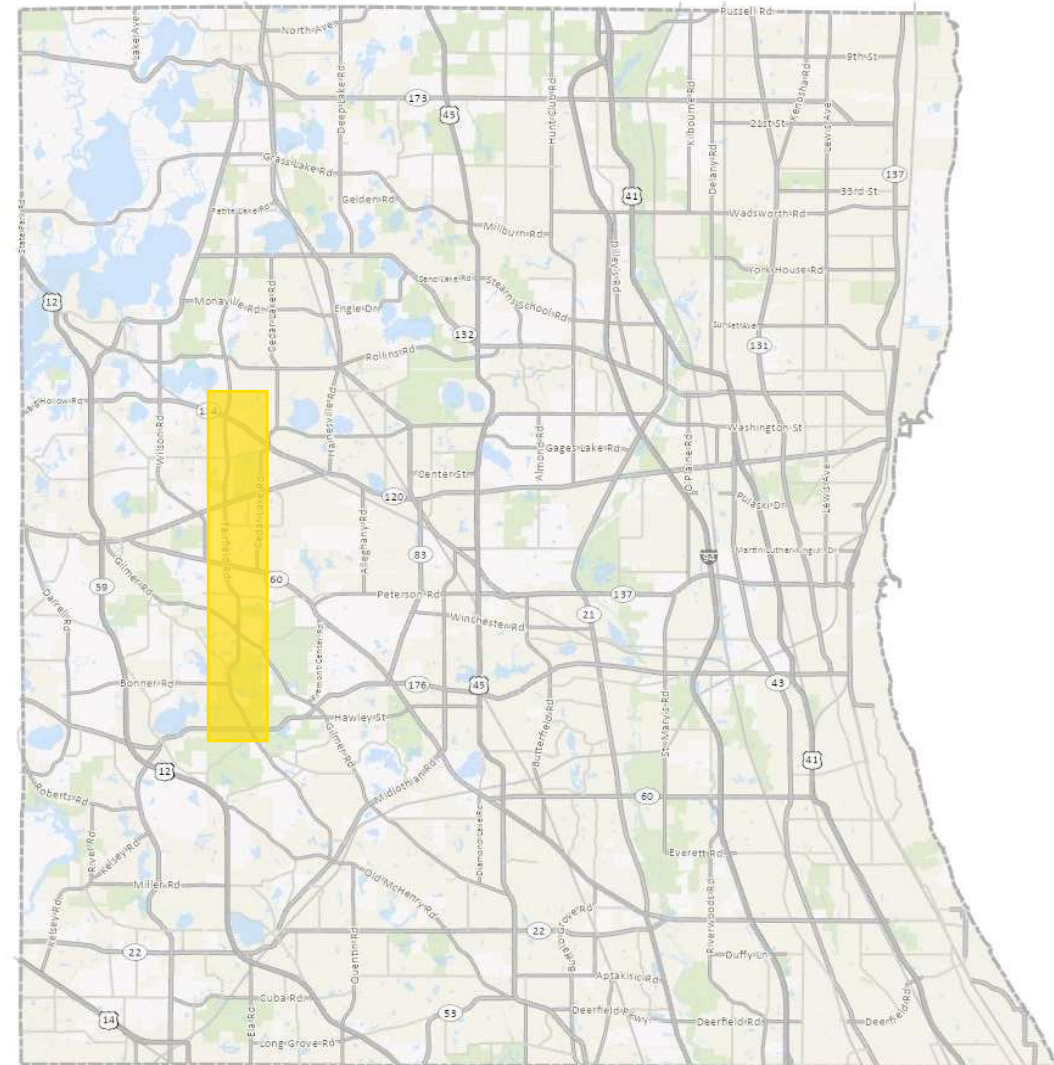
Modernization Projects			
Map ID	Route	Work Type	Program Year
1	14th St.	Reconstruct and Widen	2021
14	Butterfield Rd.	Adaptive Traffic Signal Control System	2021
15	Butterfield Rd.	Bike Path	2021
17	Butterfield Rd.*	ADA Ramp Improvements	2025
21	Darrell Rd.	Intersection Improvement	2021
22	Darrell Rd.	Intersection Improvement	2024
26	Deep Lake Rd.	Intersection Improvements	2022
28	Deerfield Rd.	Reconstruct and Widen	2024
30	Ela Rd.	Intersection Improvement	2021
33	Fairfield Rd.	Intersection Improvement	2021
37	Fairfield Rd.*	Corridor Improvements	Post-2026
39	Fremont Center Rd.	Intersection Improvement	2021
41	Gilmer Rd.	Intersection Improvement	2021
42	Gilmer Rd.	Realignment	Post-2026
44	Hainesville Rd.	Widening	2024
47	Hunt Club Rd.	Intersection Improvement	2022
49	IL Rte. 120	Widening	2021
50	IL Rte. 137	Bike Path	2025
51	IL Rte. 137	Bike Path	2025
52	IL Rte. 59	Intersection Improvement	2021
55	Kenosha Rd.	Intersection Improvement	2024
59	Lake-Cook Rd.	Bike Path	2026
64	Miller Rd.	Intersection Improvement	2021
70	Peterson Rd. / Monaville Rd.*	Feasibility Study	2021
71	Prairie Rd.	Intersection Improvement	2024
73	Quentin Rd.	Enhancements	2021

75	Rollins Rd.*	Non-Motorized Travel Gap Infrastructure	2024
77	Russell Rd.	Intersection Improvement	2024
78	Russell Rd.	Intersection Improvement	2025
79	Russell Rd.	Intersection Improvement	2025
82	Skokie Valley Bike Path	Bike Path Bridge	2021
84	Stearns School Rd.	Intersection Improvement	2022
87	Sunset Ave.	ITS PASSAGE	2021
89	Wadsworth Rd.	Intersection Improvement	2022
90	Wadsworth Rd.	Resurface and Widen	2023
91	Wadsworth Rd.	Intersection Improvement	2022
92	Washington St.*	Non-Motorized Travel Gap Infrastructure	2024
93	Washington St.*	Non-Motorized Travel Gap Infrastructure	2024
99	Winchester Rd.	Intersection Improvement	2022
102	York House Rd.	Resurface and Widen	2024

* New to this year's Five Year Program

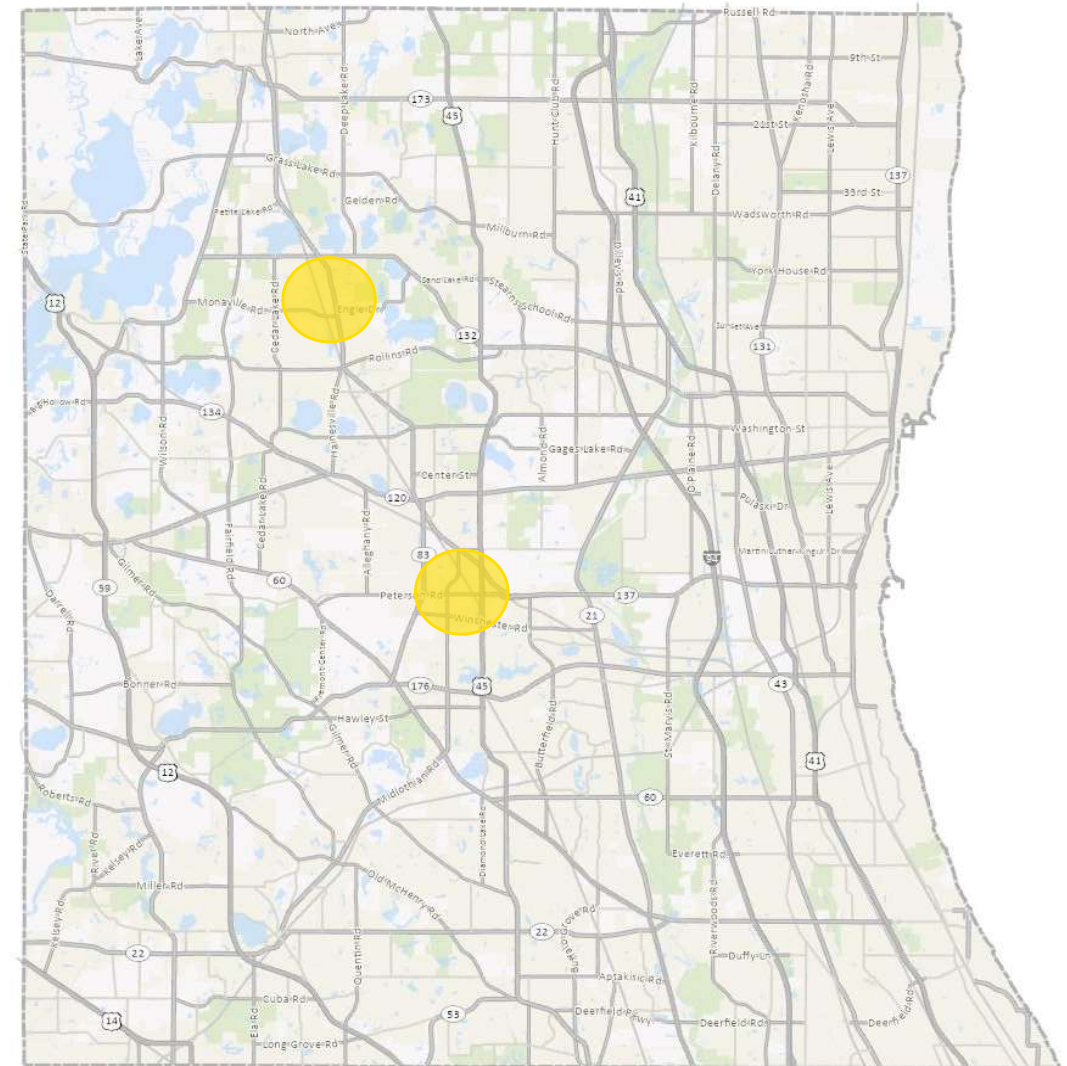
Project Highlight: **Fairfield Rd Study**

- **Phase I Engineering beginning in FY2022**
- **Corridor study area: IL134 to IL60**
- **Identify intersection and corridor improvements to address congestion, safety, and non-motorized**



Project Highlight: **Peterson Rd & Monaville Rd at CNRR**

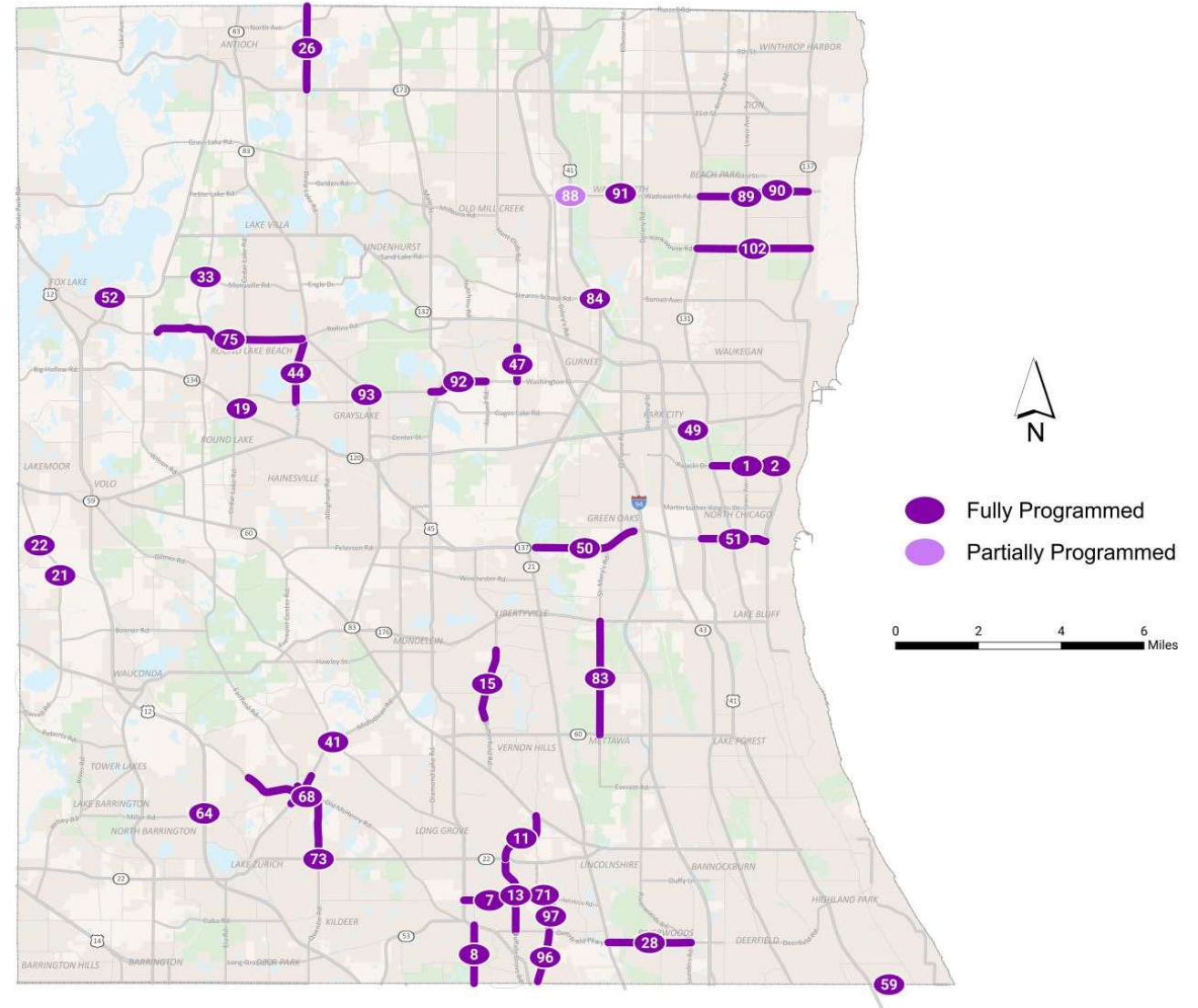
- **Feasibility Study beginning in FY2022**
- **Peterson Rd and Monaville Rd improvements at Canadian National Railroad (CNRR)**
- **Coordination with CNRR regarding long-term track improvements along North Central Line**



Non-motorized Projects | 2021-2026



- Investing \$57,965,600
 - 8.4% of program
- 35.9 miles of paved shoulder
- 28.5 miles of bike path
- 21.6 miles of sidewalk



Non-motorized projects



Non-Motorized Accommodations Projects			
Map ID	Route	Non-Motorized Improvement Type	Program Year
1	14th St.	Bike Path, Paved Shoulder, Sidewalk	2021
2	14th St.	Paved Shoulder	2021
7	Aptakisic Rd.	Bike Path, Paved Shoulder, Sidewalk	2022
8	Arlington Heights Rd.	Bike Path, Paved Shoulder, Sidewalk	2024
11	Buffalo Grove Rd.	Paved Shoulder	2025
13	Buffalo Grove Rd.	Bike Path, Paved Shoulder, Sidewalk	2021
15	Butterfield Rd.	Bike Path	2021
19	Cedar Lake Rd.	Bike Path, Paved Shoulder, Sidewalk	2023
21	Darrell Rd.	Paved Shoulder	2021
22	Darrell Rd.	Paved Shoulder	2024
26	Deep Lake Rd.	Paved Shoulder	2022
28	Deerfield Rd.	Bike Path, Paved Shoulder, Sidewalk	2024
33	Fairfield Rd.	Bike Path, Sidewalk	2021
41	Gilmer Rd.	Bike Path, Paved Shoulder, Sidewalk	2021
44	Hainesville Rd.	Bike Path, Paved Shoulder, Sidewalk	2024
47	Hunt Club Rd.	Bike Path, Sidewalk	2022
49	IL Rte. 120	Bike Path, Sidewalk	2021
50	IL Rte. 137	Bike Path	2025
51	IL Rte. 137	Bike Path	2025

52	IL Rte. 59	Bike Path, Sidewalk	2021
59	Lake-Cook Rd.	Bike Path	2026
64	Miller Rd.	Bike Path, Sidewalk	2021
68	Old McHenry Rd.	Bike Path, Paved Shoulder, Sidewalk	2025
71	Prairie Rd.	Paved Shoulder	2024
73	Quentin Rd.	Bike Path, Sidewalk	2021
75	Rollins Rd.*	Bike Path, Sidewalk	2024
83	St. Mary's Rd.	Bike Path, Paved Shoulder, Sidewalk	2021
84	Stearns School Rd.	Bike Path, Paved Shoulder, Sidewalk	2022
88	Wadsworth Rd.	Bike Path, Paved Shoulder, Sidewalk	Post-2026
89	Wadsworth Rd.	Bike Path, Sidewalk	2022
90	Wadsworth Rd.	Paved Shoulder	2023
91	Wadsworth Rd.	Sidewalk	2022
92	Washington St.*	Bike Path	2024
93	Washington St.*	Bike Path, Sidewalk	2024
96	Weiland Rd.	Bike Path, Paved Shoulder, Sidewalk	2019
97	Weiland Rd.	Bike Path, Paved Shoulder, Sidewalk	2021
102	York House Rd.	Paved Shoulder	2024

* New to this year's Five Year Program

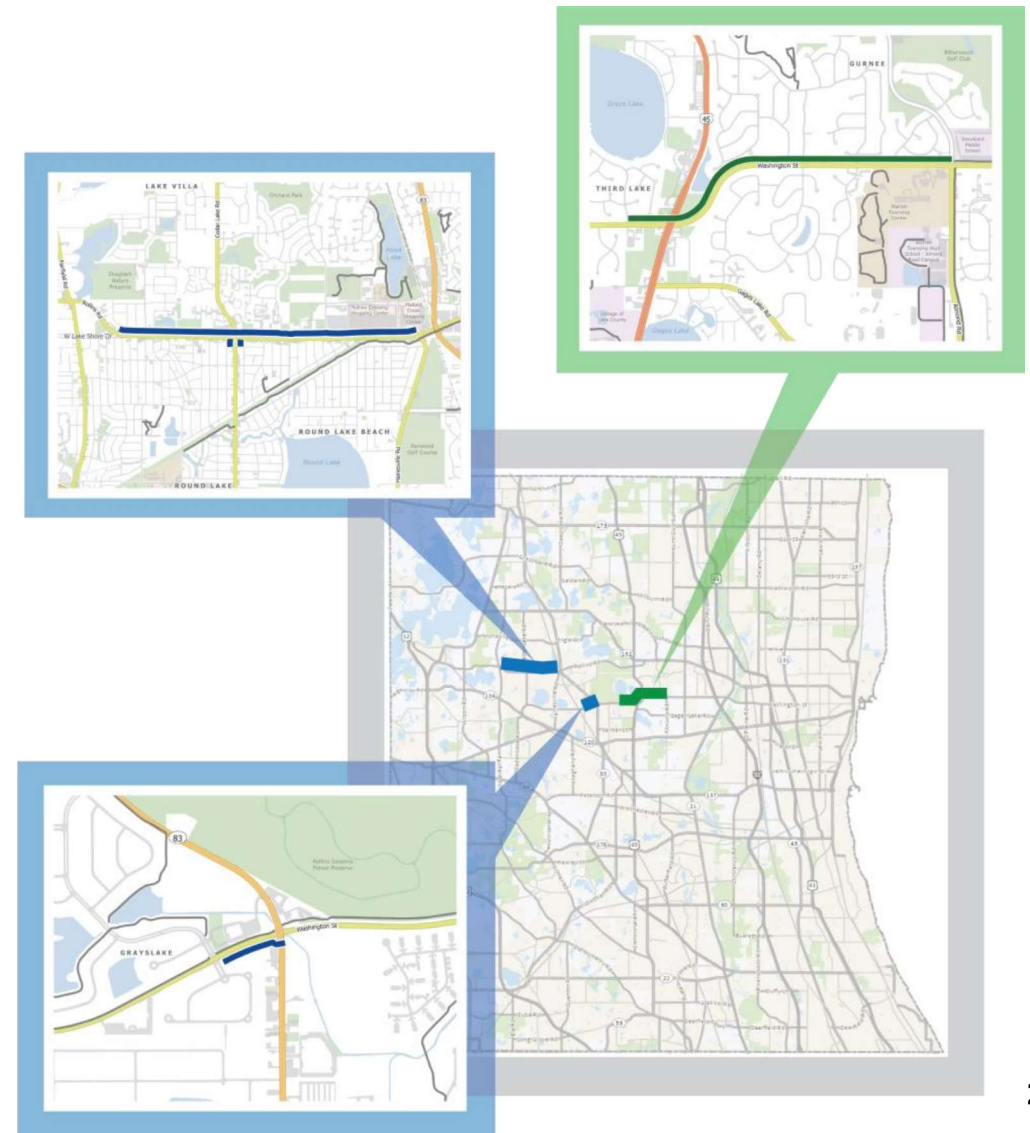
Project Highlight: **Pedestrian Safety**

- **Conduct study of pedestrian crossings along multi-lane highway cross-sections at unsignalized locations**
- **Goal: Standardize crossing locations and design elements to improve pedestrian safety and enhance driver awareness**



Project Highlight: Sidewalk Gaps and Bike Paths

- Rollins Road
 - Filling 7300 feet to create 2.6 miles of continuous sidewalk
- Washington Street
 - Filling 1.6 miles to create 6.6 miles of continuous regional path & bike lane
 - Filling 665 feet of sidewalk to connect 65 homes to regional trail



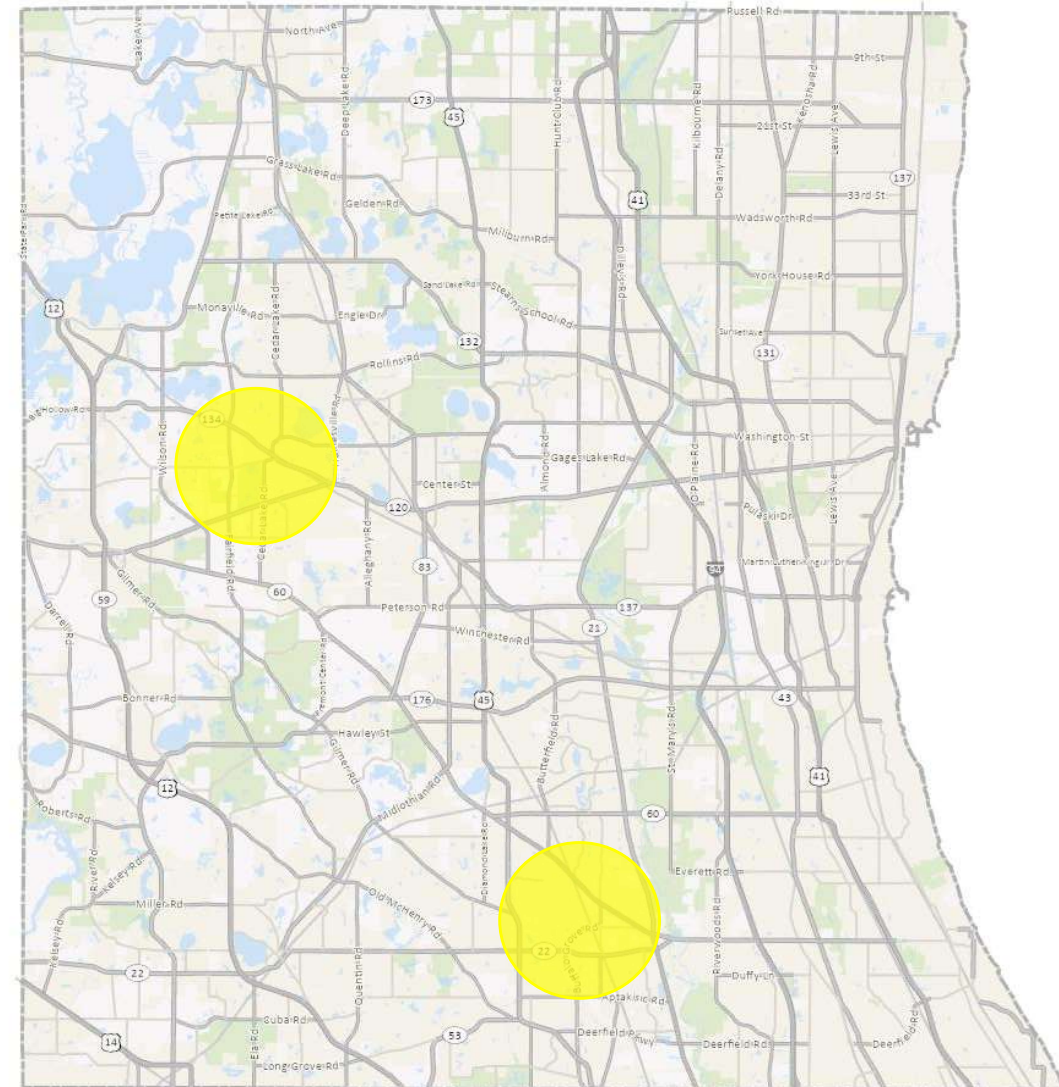
Priority Three: Expansion

- **Project set developed using:**
 - **Lake County 2040 Transportation Plan**
 - **State Consensus List**
 - **CMAP ON TO 2050 Regional Plan**
 - **IDOT Multi-Year Plan**
 - **Traffic and Safety Data**
 - **Demographic Trends**
 - **Areas of Need/Inclusive Growth**
 - **Environmental/Sustainability considerations**
 - **Paratransit Market Study**
- **Typically add lanes, grade separations, and new or extended roads**

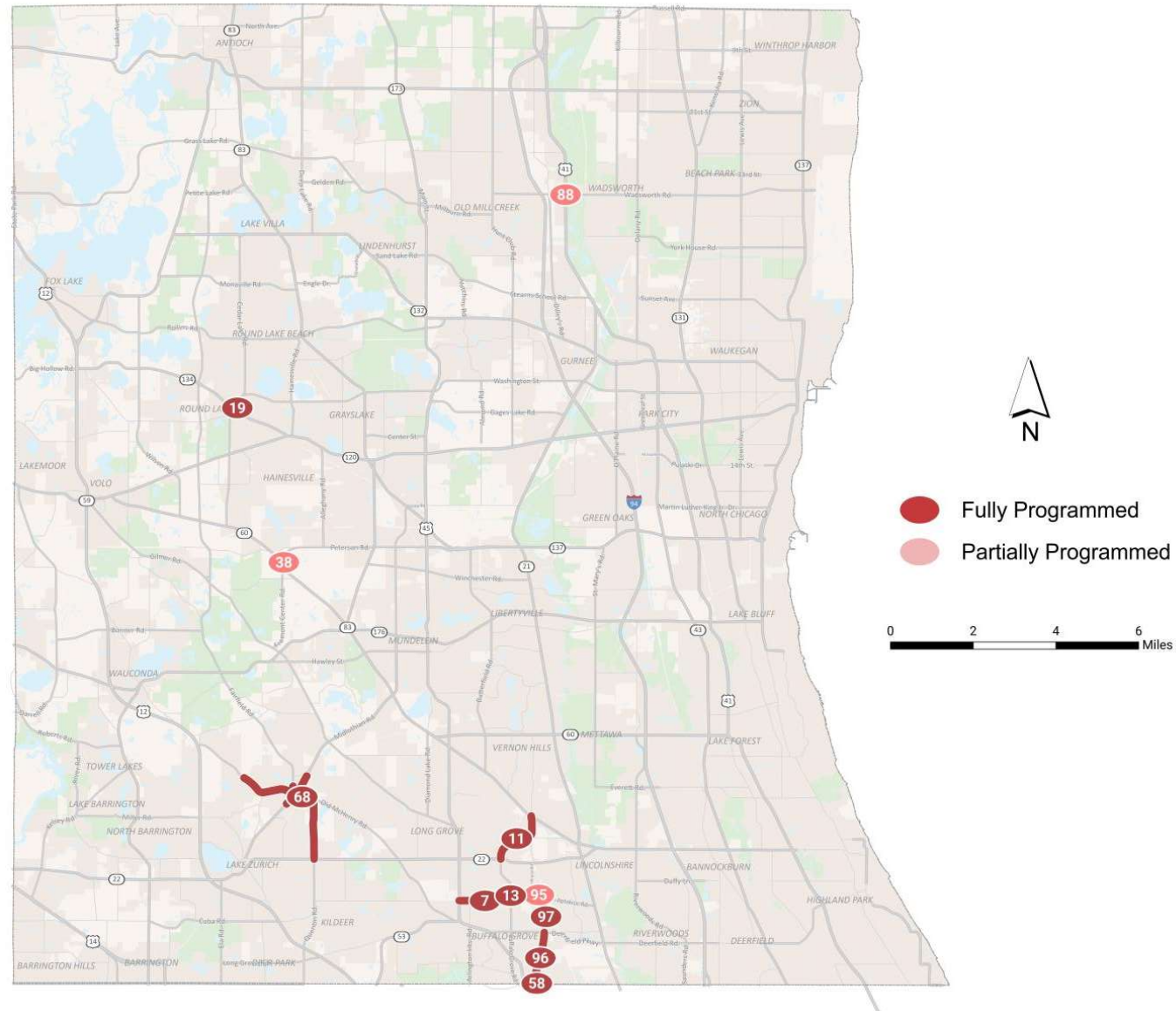


What's New in Expansion?

- Expanded Countywide Paratransit Service
- Buffalo Grove Rd Widening, IL22 to US45 (Construction)
- Cedar Lake Road Realignment, Hart Rd to Nippersink Rd (Construction)



Expansion | 2021 - 2026



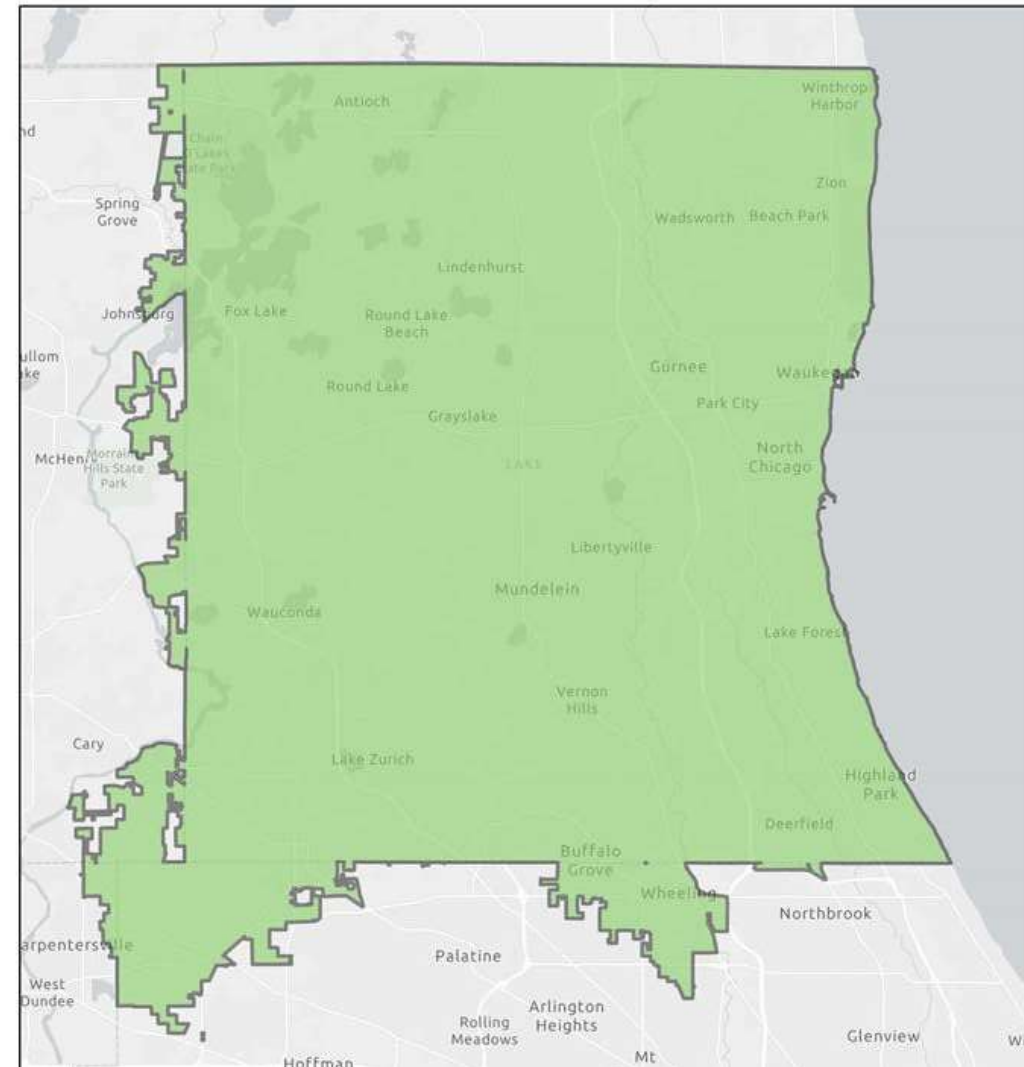
Expansion Projects

Expansion Projects			
Map ID	Route	Work Type	Program Year
7	Aptakisic Rd.	Road Widening	2022
11	Buffalo Grove Rd.	Reconstruct and Widen	2025
13	Buffalo Grove Rd.	Reconstruct and Widen	2021
19	Cedar Lake Rd.	Downtown Development Plan	2023
38	Fremont Center Rd.	Roadway Extension	Post-2026
58	Lake-Cook Rd.	Roadway Improvements	2021
68	Old McHenry Rd.	Reconstruct and Widen	2025
88	Wadsworth Rd.	Intersection Improvement	Post-2026
95	Weiland Rd.	Roadway Realignment	Post-2026
96	Weiland Rd.	Widening	2019
97	Weiland Rd.	Widening	2021

Project Highlight: Paratransit

- Top recommendation from 2019 Paratransit Market Study: Coordinated Countywide Borderless Service
- Targeting new expanded service to begin in 2022
- Increased annual county funding to cover 100% of local match

Potential Ride Lake County Service Area



Thank You!

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Questions