



2022-2027 Proposed Transportation Improvement Program

Shane E. Schneider, P.E.

Director of Transportation | County Engineer

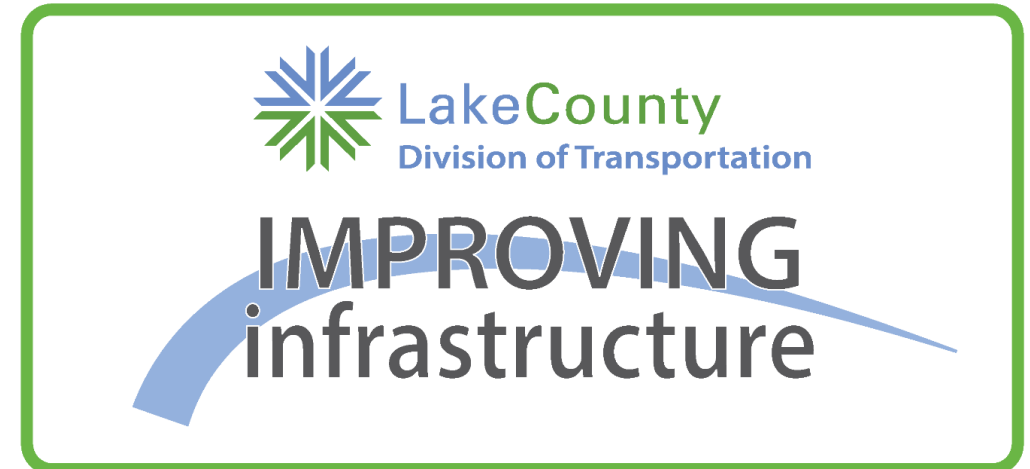
Division of Transportation

Public Works, Planning and Transportation Committee

June 8, 2022

Agenda

- **Schedule**
- **Statutory Requirements**
- **Fund Sources**
- **Fund Distribution**
- **Program Categories and Priorities**
- **Preservation Projects**
- **Modernization Projects**
- **Non-motorized Projects**
- **Expansion Projects**



Schedule

- **June 8, 2022** **Proposed Program Presentation**
- **June 29, 2022** **Committee Adoption for Consideration**
- **July 12, 2022** **County Board Adoption for Consideration**

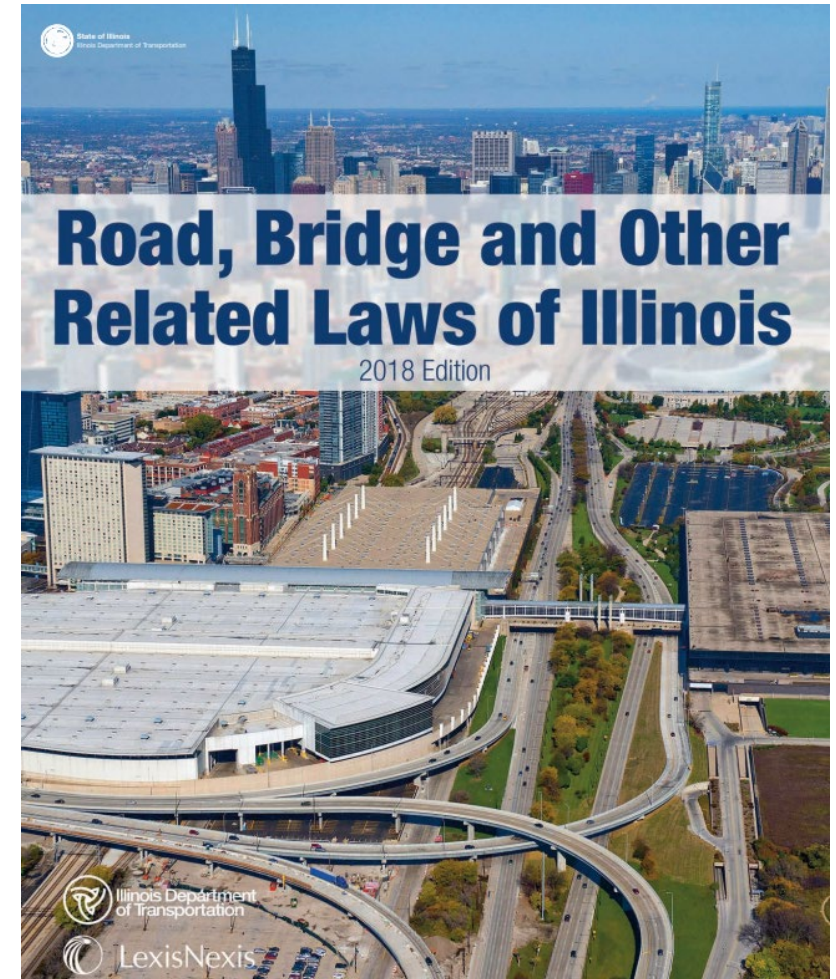
Purpose

Statutory Requirements

Illinois Road and Bridge Laws (605ILCS 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)



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

5 Local Revenue Streams Support Transportation Project Funding:



Property Tax Based

- County Bridge Tax (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 that is essential for long-term capital programming.

Fund Sources

Federal, State, Local Partners

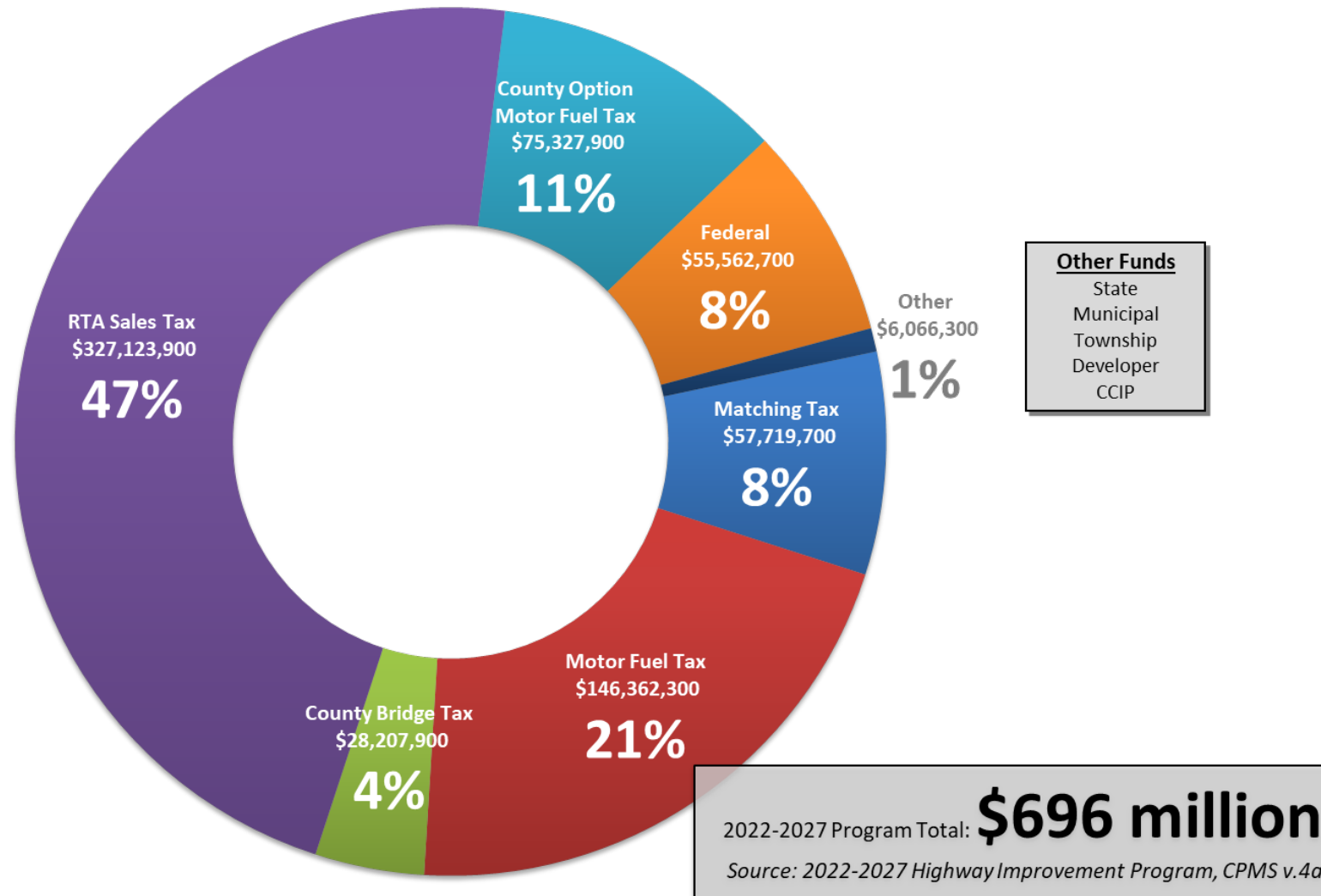


Partial List of Commonly Pursued Outside Fund Sources

- **CMAQ** Congestion Mitigation and Air Quality
- **DCEO** Illinois Department of Commerce & Economic Opportunity
- **HBP** Highway Bridge Program
- **HSIP** Highway Safety Improvement Program
- **ICC** Illinois Commerce Commission Railroad Grade Crossing Protection
- **IILA/BIL** Infrastructure Investment & Jobs Act/Bipartisan Infrastructure Law
- **ITEP** Illinois Transportation Enhancement Program
- **LA** Local Agency Partnerships and Reimbursements
- **RAISE** Rebuilding American Infrastructure with Sustainability and Equity
- **RBI** Rebuild Illinois Bonds
- **STP** Surface Transportation Block Grant
- **TAP** Transportation Alternatives Program
- **5310** Mobility of Seniors and Individuals with Disabilities (Paratransit)
- **More...**

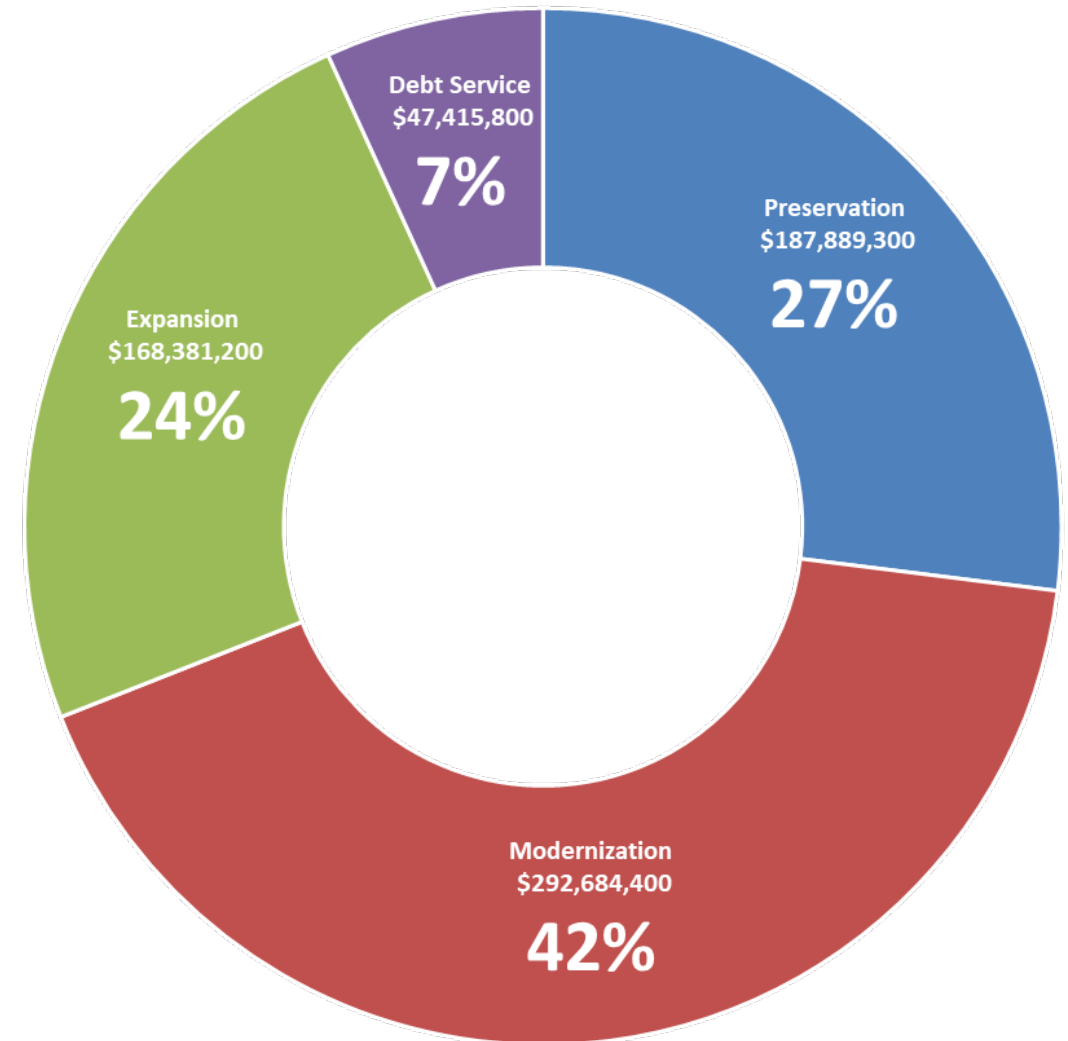
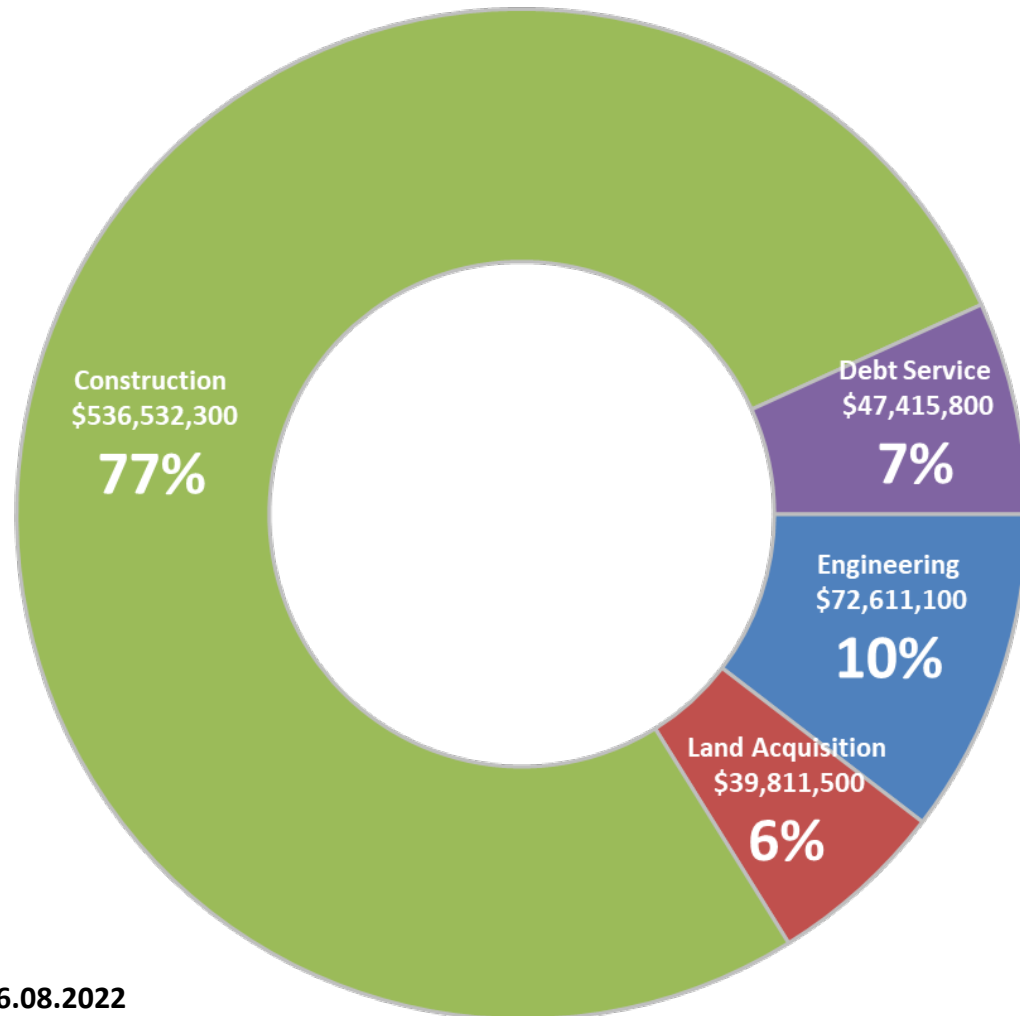
Fund Sources

2022-2027 Program Totals



Fund Distribution

2022-2027 Program Totals



New Program Revenue

County Option Motor Fuel Tax



Total Program Revenue

\$75 million

Programmed Expenses

Arlington Heights Rd Reconstruction (Lake Cook to IL83)	\$17,000,000
Cedar Lake Rd Realignment (Hart to Nippersink)	\$24,000,000
Darrell Rd at Roberts Rd Intersection	\$ 3,000,000
Fairfield Rd Corridor Modernization (IL134 to IL60)	\$ 6,000,000
Lake-Cook Rd Bike Path (Skokie Valley Bike Path to Chicago Botanical Gardens)	\$ 5,000,000
Lewis Ave Modernization (IL120 to IL137)	\$20,000,000
Peterson Rd and Monaville Rd at CNRR Grade Separation Feasibility Study	\$ 500,000
Stearns School Rd Bridge Replacement at Mill Creek	\$ 1,500,000

Collections began July 1, 2021 (4 cents per gallon)

Numbers rounded

Program Priorities

1. Preservation

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

2. Modernization

- Reduce delays and increase safety
- Non-motorized accommodation
- Use technology

3. Expansion

- Accommodate regional traffic and economic development
- Countywide Paratransit

Priority One: Preservation

Project selection tools:

- Asset inventories
- Condition assessments
- Life cycle/benefit cost analysis
- Unit cost information
- Industry standards
- Innovative techniques

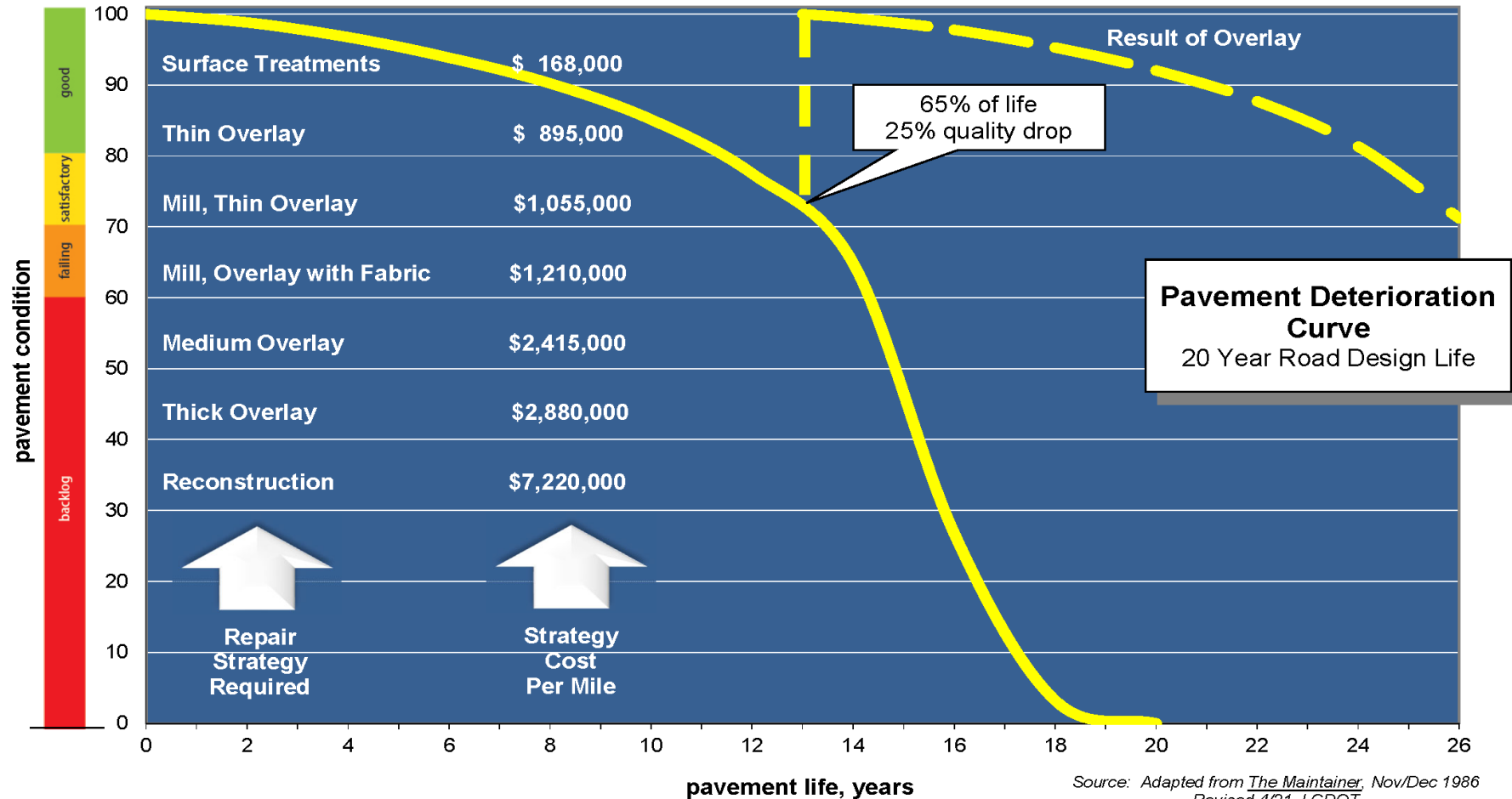
Typical projects include:

- Resurfacing and other pavement treatments
- Annual maintenance work



Life Cycle Analysis

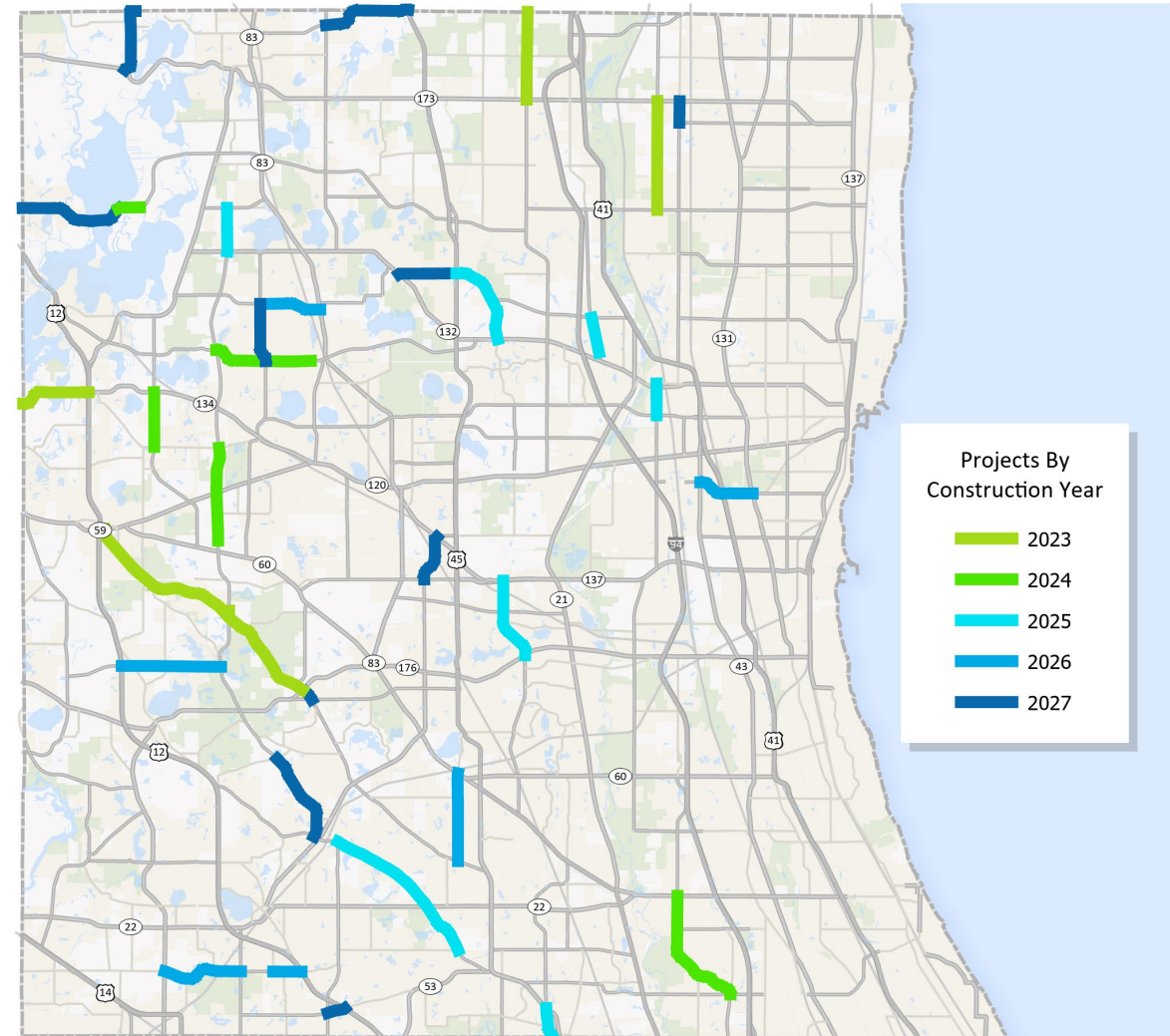
Investments at the right time



Resurfacing Projects

Pavement Management Program Recommended

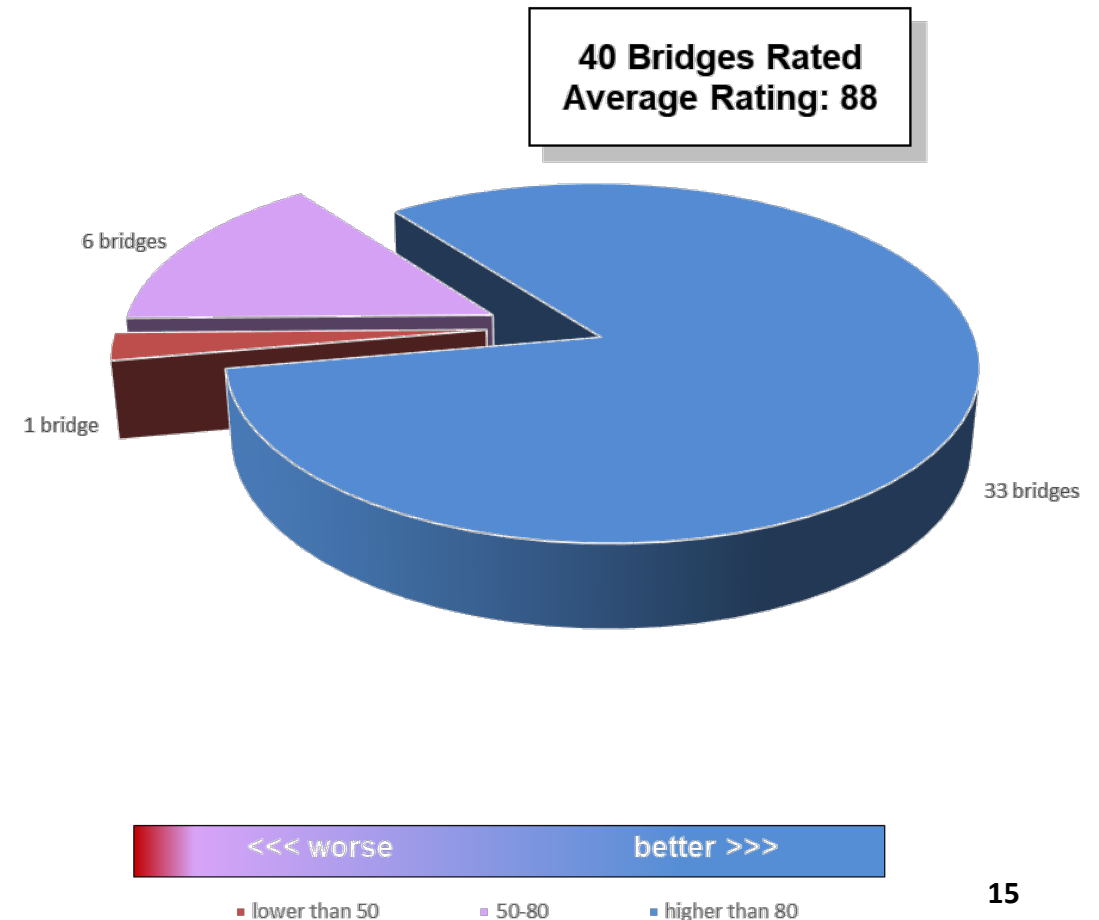
- **2023: 12.4 miles**
- **2024: 9.4 miles**
- **2025: 11.0 miles**
- **2026: 9.5 miles**
- **2027: 13.1 miles**



Lake County's Bridges

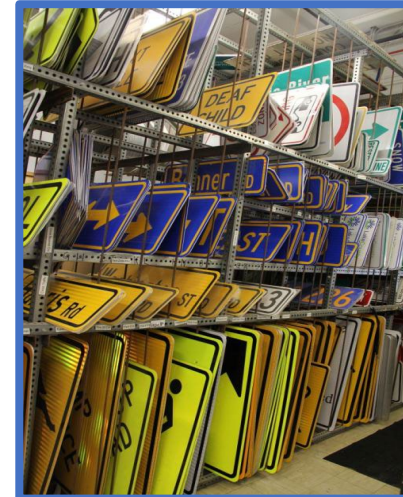
- **Highway Bridges**
 - Number of bridges 44
 - Average age (years) 28
 - Average deck age (years) 19
- **Bike and Pedestrian Bridges**
 - Number of bridges 15
 - Number of tunnels 15
- **74 Total Bridges and Tunnels**

Sufficiency Ratings: Lake County's Bridges

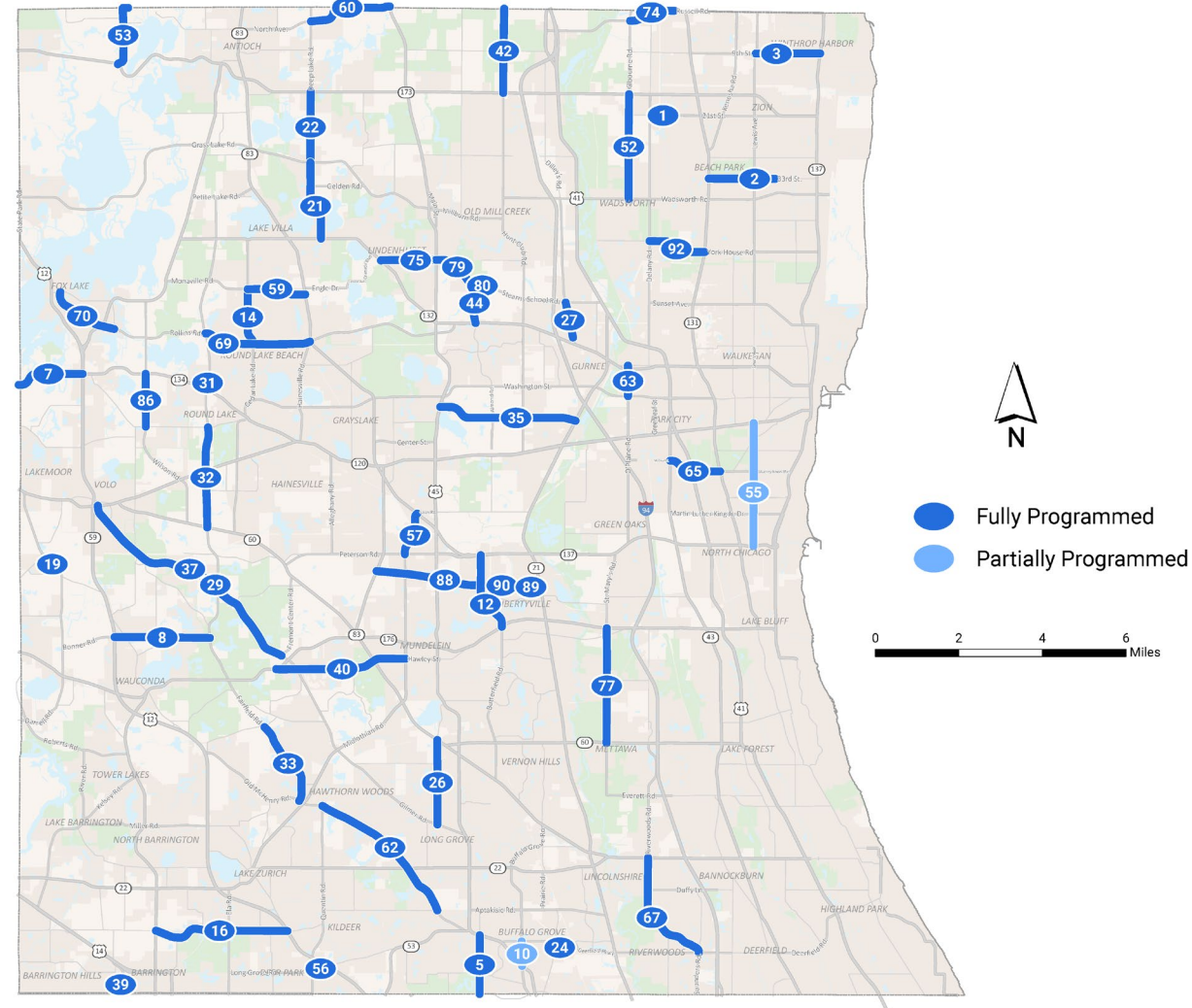


Asset Inventories

- Pavement and bike facilities
- Guardrail, bridges, rail crossings
- Signals and signs
- Drainage and stormwater facilities
- Fencing
- More...



Preservation | 2022 - 2027



Preservation Projects



Preservation Projects				
Map ID	Route	Work Type	Program Year	CPMS PIN
1	21st St.	Culvert Replacement	2022	B-01548b
2	33rd St.	Resurfacing	2022	B-01489a
3	9th St.	Microsurfacing	2022	B-01622a
5	Arlington Heights Rd.	Reconstruction	2023	B-01182
7	Big Hollow Rd.	Resurfacing	2022	B-01492
8	Bonner Rd.	Resurfacing	2026	B-01382
10	Buffalo Grove Rd.	Reconstruction	Post-2027	B-01359
12	Butterfield Rd.	Resurfacing	2025	B-01636a
14	Cedar Lake Rd.	Resurfacing	2027	B-01395
16	Cuba Rd.	Resurfacing	2026	B-01678
19	Darrell Rd.	Culvert Replacement	2023	B-00141c
21	Deep Lake Rd.	3R Resurfacing	2022	B-00913a
22	Deep Lake Rd.	Resurfacing	2022	B-00913b
24	Deerfield Pkwy.*	Concrete Repair	2023	B-01708
26	Diamond Lake Rd.	Resurfacing	2026	B-01585
27	Dilley's Rd.	Microsurfacing	2027	B-01635
29	Fairfield & Gilmer Connector Ramp	Resurfacing	2023	B-01631b
31	Fairfield Rd.	Culvert Replacement	2023	B-01434
32	Fairfield Rd.	Resurfacing	2024	B-01634
33	Fairfield Rd.*	Resurfacing	2023	B-01706
35	Gages Lake Rd.	Resurfacing	2022	B-01537
37	Gilmer Rd.	Resurfacing	2023	B-01631a
39	Hart Rd.	Bridge Replacement	2022	B-01372b
40	Hawley St.	Resurfacing	2022	B-01490
42	Hunt Club Rd.	Resurfacing	2023	B-01539
44	Hutchins Rd.	Resurfacing	2025	B-01676
52	Kilbourne Rd.	Resurfacing and Intersection Improvement	2023	B-01576

53	Lake Ave.	Resurfacing	2027	B-01580
55	Lewis Ave.	Reconstruction	Post-2027	B-01452b
56	Long Grove Rd.	Resurfacing	2027	B-01674
57	Midlothian Rd.	Resurfacing	2027	B-01581
59	Monaville Rd.	Resurfacing	2026	B-01538
60	North Ave.	Resurfacing	2027	B-01582
62	Old McHenry Rd.	Resurfacing	2025	B-01673
63	O'Plaine Rd.	Resurfacing	2025	B-01677
65	Pulaski Dr.	Resurfacing	2026	B-01577
67	Riverwoods Rd.	Resurfacing	2024	B-01494
69	Rollins Rd.	Resurfacing	2025	B-01495
70	Rollins Rd.*	Resurfacing	2024	B-01705
74	Russell Rd.*	Resurfacing	2024	B-01704
75	Sand Lake Rd.	Resurfacing	2027	B-01681
77	St. Mary's Rd.	3R Resurfacing	2022	B-01381
79	Stearns School Rd.	Resurfacing	2025	B-01496
80	Stearns School Rd.	Bridge Construction	2022	B-01499b
86	Wilson Rd.	Resurfacing	2024	B-01641
88	Winchester Rd.	Resurfacing	2023	B-01537a
89	Winchester Rd.	Resurfacing	2023	B-01573b
90	Winchester Rd.	Culvert Replacement	2023	B-01573c
92	York House Rd.	Resurfacing	2022	B-01534

* New to this year's Five Year Program

What's New in Preservation?



- **Roadway Resurfacing Projects:**

- Cedar Lake Rd, Monaville – Rollins
- Fairfield Rd, Milton – Old McHenry
- Lake Ave, State Line – IL173
- Long Grove Rd, Quentin – US12
- Midlothian Rd, IL137 - Peterson
- North Ave, Deep Lake – US45
- Sand Lake Rd, IL132 – US45

- **Annual Work at Various Locations:**

- Bridge repairs
- Crack sealing
- Microsurfacing
- Pavement patching
- Pavement rejuvenator
- Pavement markers
- Pavement markings
- Drainage system cleaning
- Culvert repair or replacement
- Retaining wall repair or replacement
- Roadway signs
- Curb and gutter repair or replacement
- Rumble strips
- Sidewalk and ADA curb ramps
- Guardrail repair or replacement
- Township road district projects

Project Highlight: Deerfield Rd at Weiland Rd Patching

- Concrete patching project
- Deteriorated joints and pavement condition

LCDOT's GIS staff are licensed drone pilots and can perform various asset management tasks.



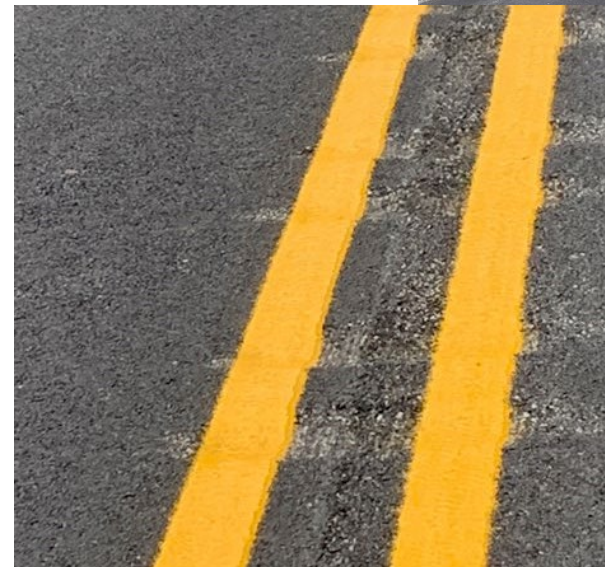
Overhead photo source: Dot the drone

Project Highlight: Center and Edge Line Rumble Strips

- **New systemwide safety countermeasure intended to reduce roadway departures:**
 - Run-off-road crashes
 - Head-on crashes
- **Recently resurfaced two-lane county highways with posted speed limits of 45 mph and over**

“The sound of safety”

FHWA Report No. FHWA-SA-16-115



ZERO IS OUR GOAL
A SAFE SYSTEM IS HOW WE GET THERE

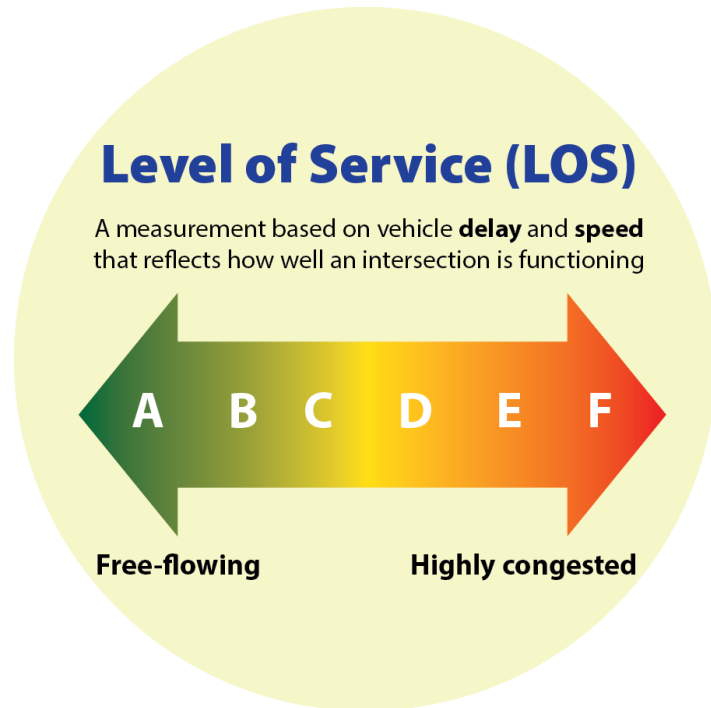
Priority Two: Modernization

- **Project selection tools:**
 - **Traffic and safety analysis**
 - **Level of Service (LOS) data**
 - **PASSAGE data**
 - **2040 bike and pedestrian priorities**
 - **Non-motorized policy**
 - **Bike/Pedestrian gap analysis**
- **Typical projects include:**
 - **Intersection and safety improvements**
 - **Bike and pedestrian accommodations**
 - **Signal timing and interconnects**



Level of Service Data

- **County involved, signalized intersections and roundabouts**



- LCDOT uses *Synchro* traffic analysis software to evaluate intersection operations and performance

- **Roundabouts (5 total)**

	Level of Service	AM Peak Hour	PM Peak Hour
(best)	A	2	1
	B	3	2
	C	0	2
	D	0	0
	E	0	0
(worst)	F	0	0

- **Signalized intersections (313 total)**

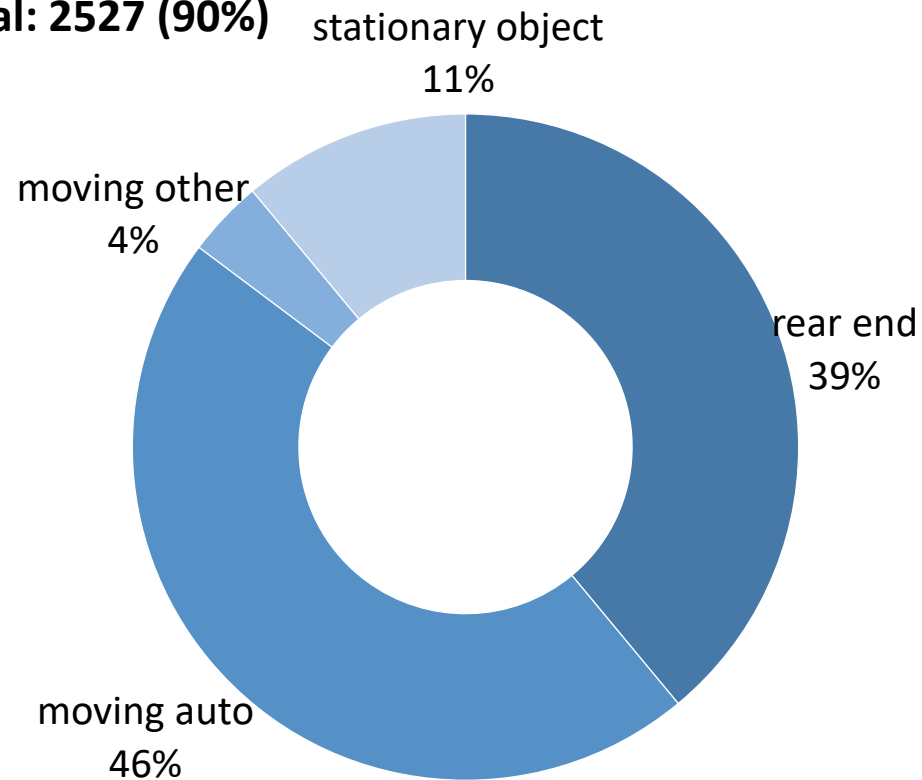
	Level of Service	AM Peak Hour	PM Peak Hour
(best)	A	97	64
	B	73	73
	C	89	79
	D	33	59
	E	7	22
(worst)	F	14	16

Source: LCDOT Traffic Department 3/2020

Crash Summary

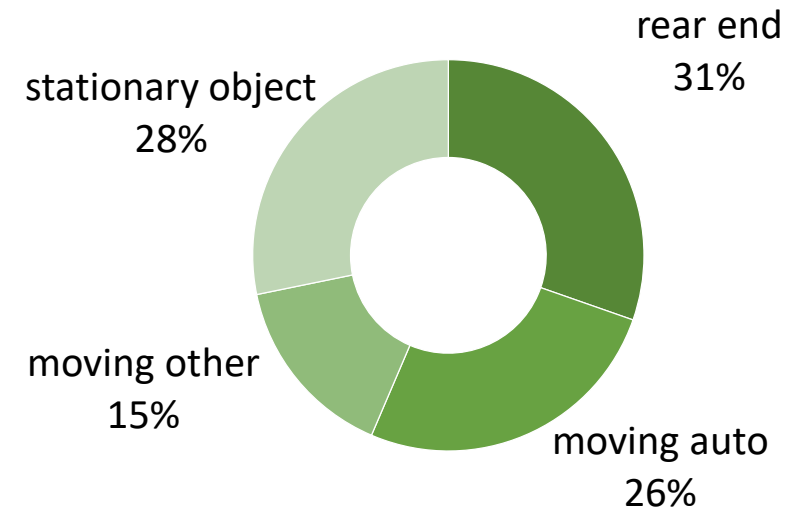
Crashes at intersections

total: 2527 (90%)



Crashes on roadway sections

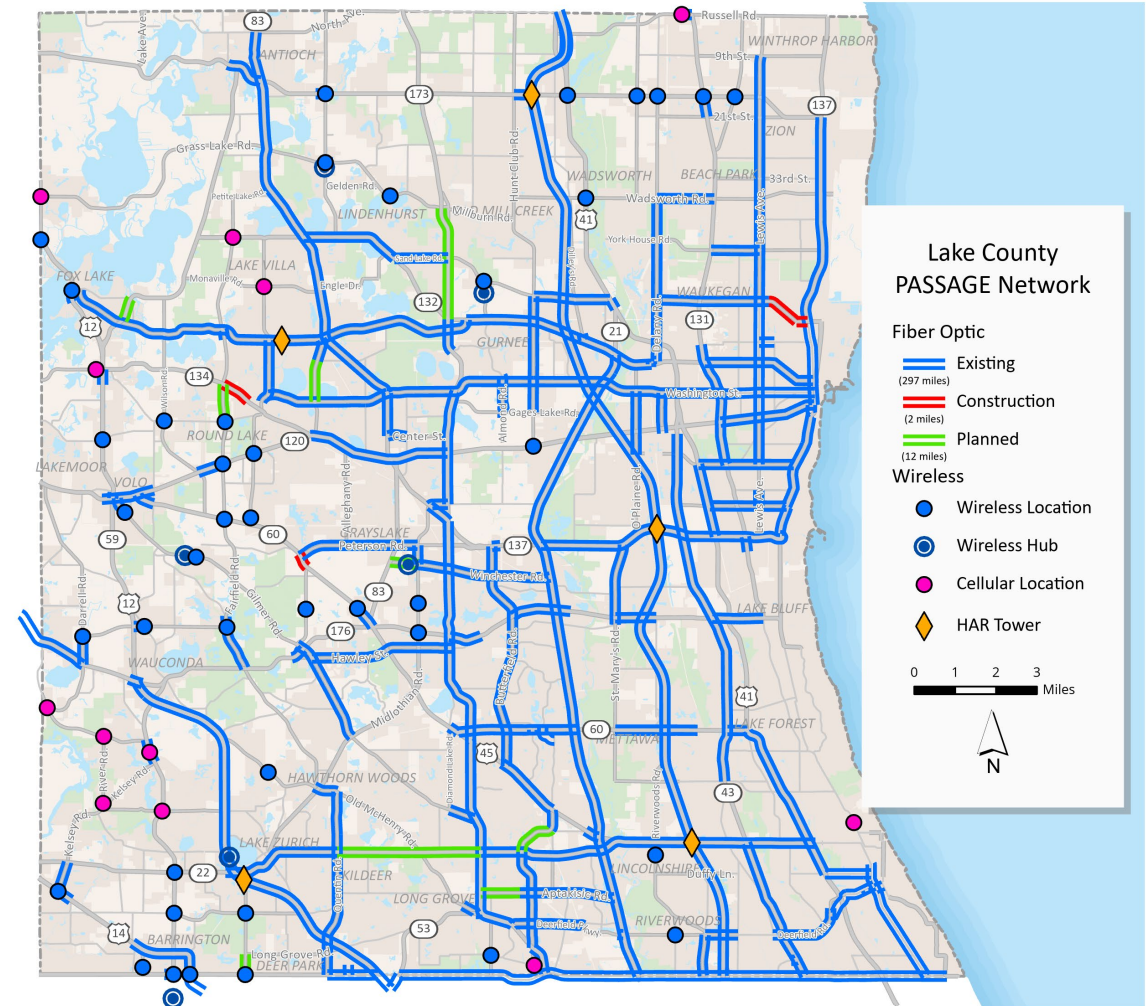
Total: 280 (10%)



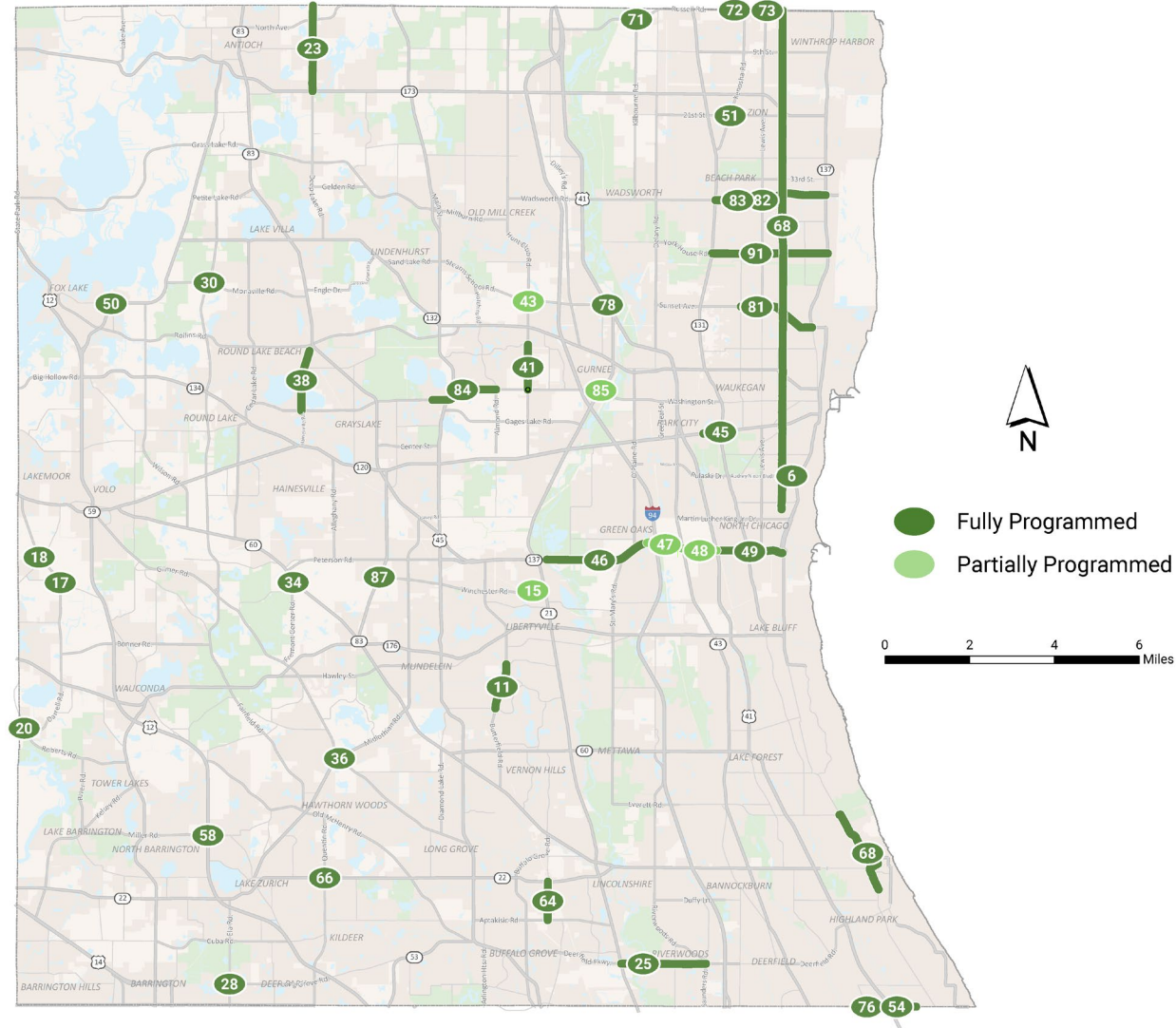
Data Source: LCDOT Traffic Department, 4/2022
IDOT 2020 crash data (most recent available)

Lake County's Traffic Signal and Communication Network

- 308 miles of fiber optic in place
- 6 miles under construction
- 12 miles planned
- 663 Traffic signals connected
- 441 PTZ Cameras
- 1 Portable PTZ (cell)
- 9 Portable changeable message board signs
- 5 Highway Advisory Radio (HAR) towers – Radio 1620AM



Modernization | 2022 - 2027



Modernization Projects



Modernization Projects				
Map ID	Route	Work Type	Program Year	CPMS PIN
6	Audrey Nixon Blvd.	Resurfacing	2022	B-01002b
11	Butterfield Rd.*	Bike Path	2023	B-01617b
15	County Libertyville Campus*	Multiuse Maintenance Facility	Post-2027	B-01709
17	Darrell Rd.	Intersection Improvement	2023	B-00141a
18	Darrell Rd.	Intersection Improvement	2025	B-00141b
20	Darrell Rd.*	Intersection Improvement	2026	B-01703
23	Deep Lake Rd.	Intersection Improvements	2023	B-01547
25	Deerfield Rd.	Reconstruct and Widen	2024	B-01266a
28	Ela Rd.	Intersection Improvement	2022	B-01120
30	Fairfield Rd.	Roundabout	2022	B-01184a
34	Fremont Center Rd.	Intersection Improvement	2022	B-00474c
36	Gilmer Rd.	Intersection Improvement	2022	B-00728a
38	Hainesville Rd.	Reconstruct and Widen	2025	B-01482
41	Hunt Club Rd.	Intersection Improvement	2022	B-01437
43	Hunt Club Rd.*	Intersection Improvement	Post-2027	B-01707
45	IL Rte. 120	Widening	2022	B-00740
46	Patriot Path	Bike Path	2026	B-01181a
47	Patriot Path	Bike Path	Post-2027	B-01181b
48	Patriot Path	Bike Path	Post-2027	B-01181c
49	Patriot Path	Bike Path	2025	B-01181d
50	IL Rte. 59	Intersection Improvement	2022	B-00738
51	Kenosha Rd.	Intersection Improvement	2024	B-01548
54	Lake-Cook Rd.	Bike Path	2026	B-01616
58	Miller Rd.	Intersection Improvement	2022	B-01263
64	Prairie Rd.	Intersection Improvement and Reconstruction	2024	B-01500
66	Quentin Rd.	Non-Motorized Enhancements	2022	B-01572
68	Robert McClory Bike Path*	Bike Path Enhancements	2025	B-01702

71	Russell Rd.	Intersection Improvement	2024	B-01445a
72	Russell Rd.	Intersection Improvement	2025	B-01445b
73	Russell Rd.	Intersection Improvement	2025	B-01445b
76	Skokie Valley Bike Path**	Bike Path Bridge	2022	B-01150
78	Stearns School Rd.	Intersection Improvement	2023	B-01361
81	Sunset Ave./Golf Rd./Greenwood Ave.	ITS PASSAGE	2022	B-01033
82	Wadsworth Rd.	Intersection Improvement	2022	B-01119
83	Wadsworth Rd.	Resurface and Widen	2024	B-01402a
84	Washington St.	Non-Motorized Travel Gap Infrastructure	2024	B-01419a
85	Washington St.*	Intersection Improvement	Post-2027	B-01700
87	Winchester Rd.	Intersection Improvement	2023	B-01365
91	York House Rd.	Resurface and Widen	2027	B-01509

* New to this year's Five Year Program

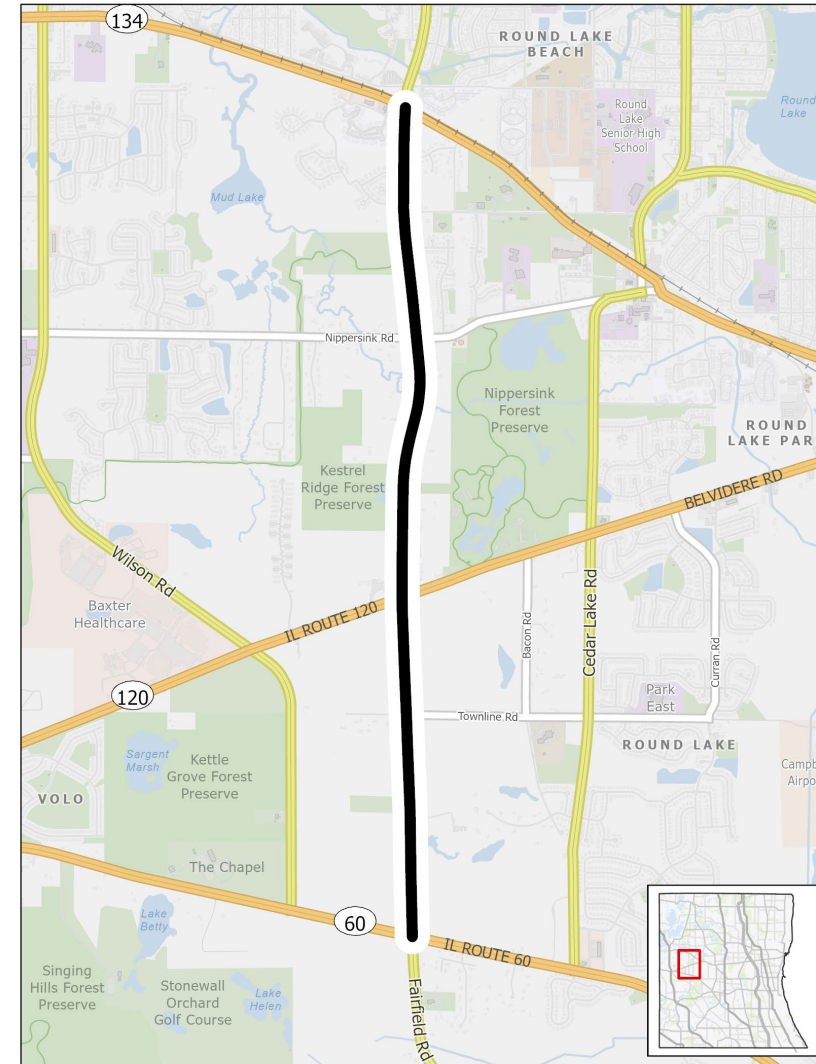
** LCDOT is not the Lead Agency

What's New in Modernization?

- **Butterfield Bike Path: Gregg's Parkway to Golf Rd (Construction)**
- **CN crossings: Peterson Rd and Monaville Rd (Feasibility study)**
- **Washington St at IL21: Intersection Improvement (Engineering)**
- **New traffic signals: Sunset at Northern and Deerfield at Barclay**
- **Robert McClory Bike Path Improvements: paving, road crossings, landscaping**
- **Darrell Rd at Roberts Rd: Intersection study**
- **Hunt Club Rd at Stearns School Rd: Intersection study**
- **Hunt Club at Washington St (Construction)**
- **Hainesville Rd: Washington to Rollins (Construction)**
- **Patriot Path: segment 4 - US41 to Robert McClory Path (Construction phase)**
- **LCDOT Multi-use Maintenance Facility: Feasibility Study and Design Engineering**

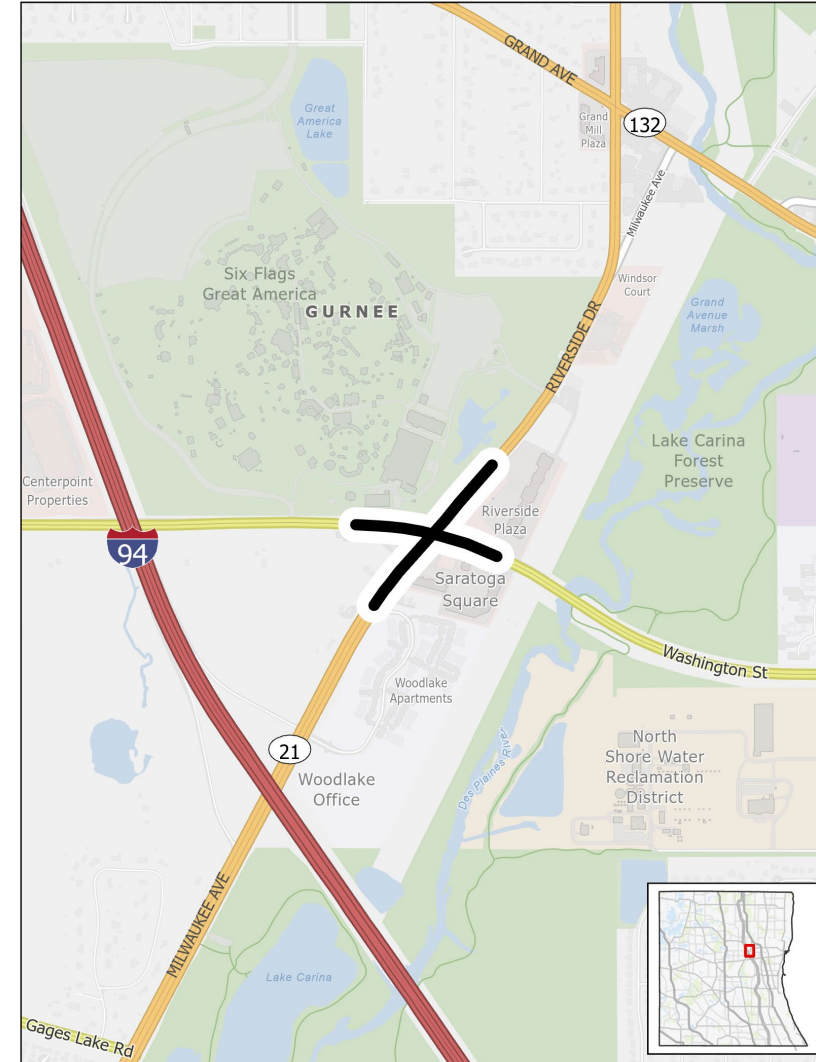
Project Highlight: **Fairfield Rd Study**

- **Engineering study to modernize corridor and intersections with safety, operational, and non-motorized improvements**
- **Study limits: IL134 to IL60**
- **Average daily traffic 12,000-16,000**
- **Included in 2040 Transportation Plan**



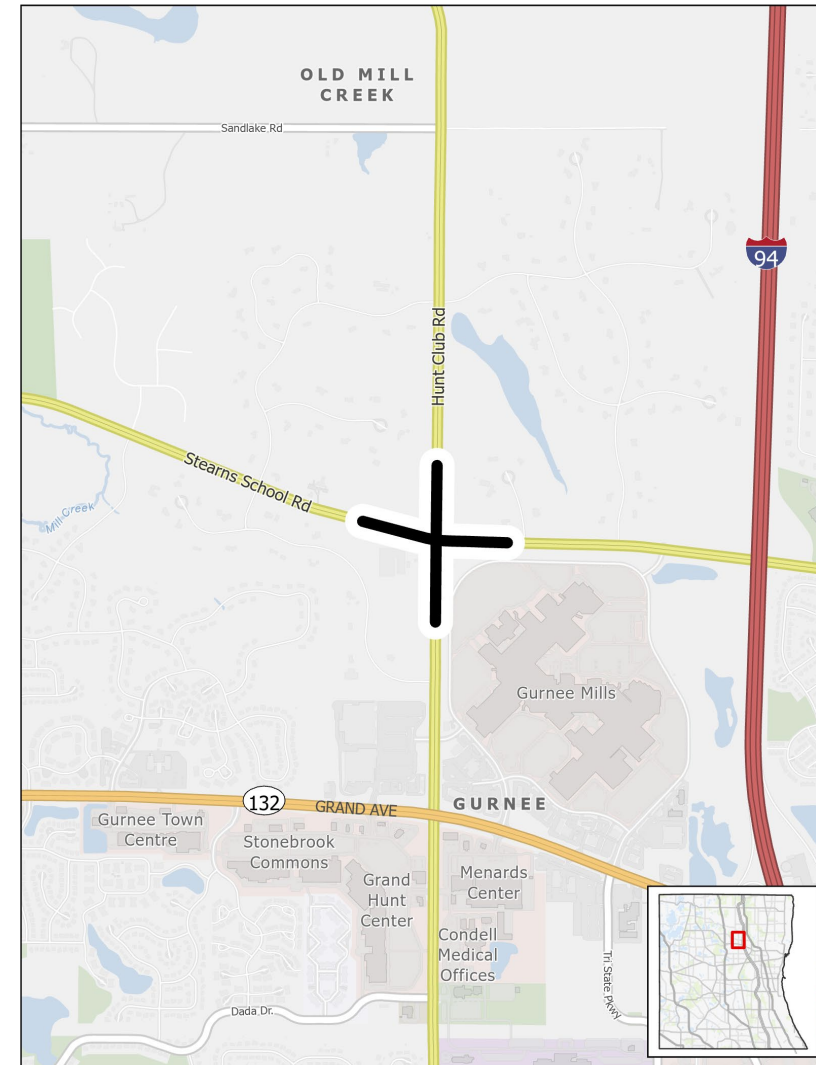
Project Highlight: **Washington St at IL21**

- **Engineering study to enhance safety at the intersection**
- **133 crashes (2016-2020): 1 fatal, 46 injury**
- **County/State intersection with nearly 50,000 vehicles per day**
- **30,000+ vehicles per day on Washington Street**



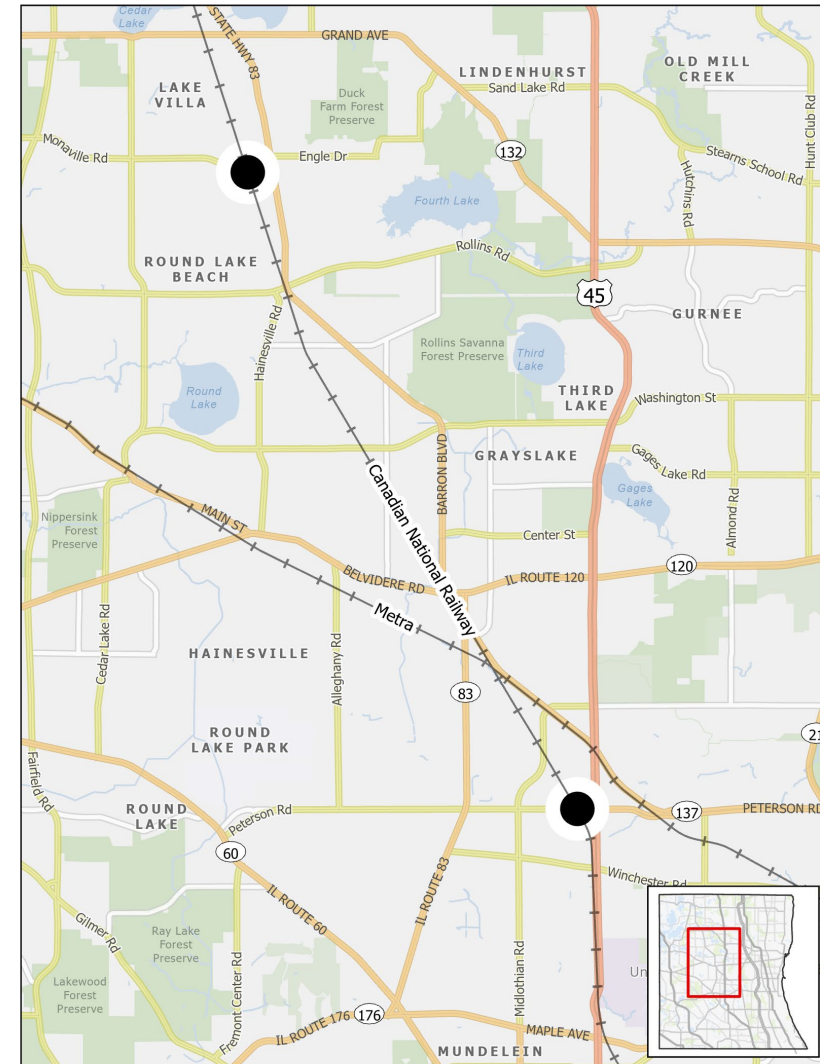
Project Highlight: **Hunt Club Rd at Stearns School Rd**

- **Engineering study to consider safety improvements, including potential roundabout**
- **50 crashes (2016-2020): 11 injury**
- **15,000 vehicles per day on Stearns School Rd**
- **20,000 vehicles per day on Hunt Club Rd**
- **Included in 2040 Transportation Plan**



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



Project Highlight: Multi-Use Maintenance Facility

- Feasibility study and design services
- Goals:
 - Modern design that meets current and future (50+ years) needs
 - Energy and operationally efficient
 - Consolidate existing 1950s-70s spaces: truck storage, light duty, parts, snow command, and sign shop
 - Potential storage options for outside departments/agencies
 - Potential flexible meeting spaces for 40-60 staff
 - Potential loading dock for Libertyville campus

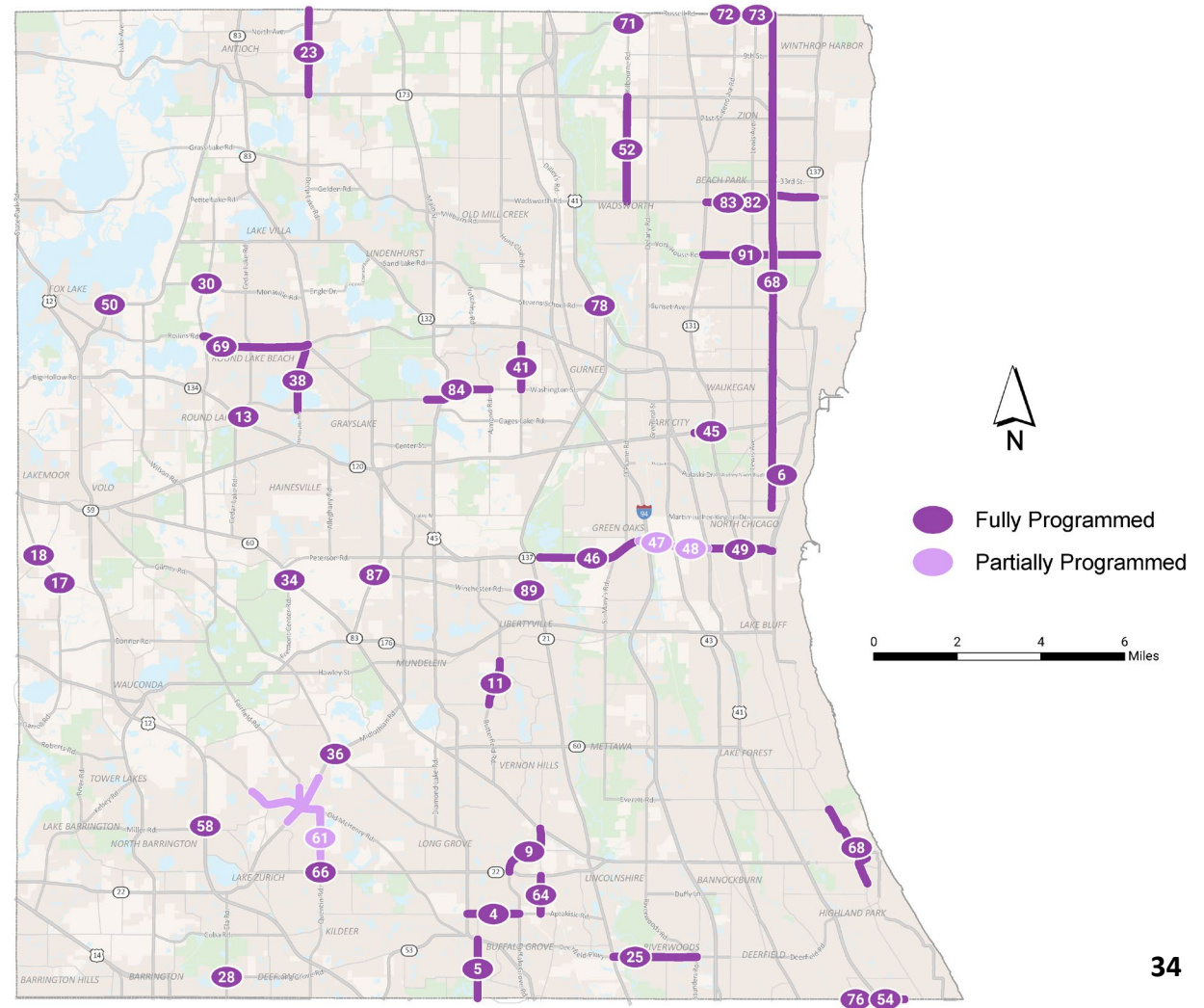


Non-motorized Projects | 2022-2027



**\$72 Million Investment
+10% of program funds**

- 34.6 miles of paved shoulder
- 45.1 miles of bike path
- 21.7 miles of sidewalk



Non-motorized projects



Non-Motorized Accommodations Projects				
Map ID	Route	Non-Motorized Improvement Type	Program Year	CPMS PIN
4	Aptakisic Rd.	Bike Path, Paved Shoulder, Sidewalk	2022	B-00739a
5	Arlington Heights Rd.	Bike Path, Paved Shoulder, Sidewalk	2023	B-01182
6	Audrey Nixon Blvd.	Paved Shoulder	2022	B-01002b
9	Buffalo Grove Rd.	Bike Path, Paved Shoulder, Sidewalk	2026	B-01358
11	Butterfield Rd.*	Bike Path	2023	B-01617b
13	Cedar Lake Rd.	Bike Path, Paved Shoulder, Sidewalk	2024	B-00752
17	Darrell Rd.	Bike Path, Paved Shoulder	2023	B-00141a
18	Darrell Rd.	Bike Path, Paved Shoulder	2025	B-00141b
23	Deep Lake Rd.	Bike Path, Paved Shoulder	2023	B-01547
25	Deerfield Rd.	Bike Path, Paved Shoulder, Sidewalk	2024	B-01266a
28	Ela Rd.	Bike Path, Bike Lanes	2022	B-01120
30	Fairfield Rd.	Sidewalk	2022	B-01184a
34	Fremont Center Rd.	Bike Path	2022	B-00474c
36	Gilmer Rd.	Bike Path, Paved Shoulder, Sidewalk	2022	B-00728a
38	Hainesville Rd.	Bike Path, Paved Shoulder, Sidewalk	2025	B-01482
41	Hunt Club Rd.	Bike Path, Sidewalk	2022	B-01437
45	IL Rte. 120	Sidewalk	2022	B-00740
46	Patriot Path	Bike Path	2026	B-01181a
47	Patriot Path	Bike Path	Post-2027	B-01181b
48	Patriot Path	Bike Path	Post-2027	B-01181c
49	Patriot Path	Bike Path	2025	B-01181d
50	IL Rte. 59	Bike Path, Sidewalk	2022	B-00738
52	Kilbourne Rd.	Paved Shoulder, Sidewalk	2023	B-01576

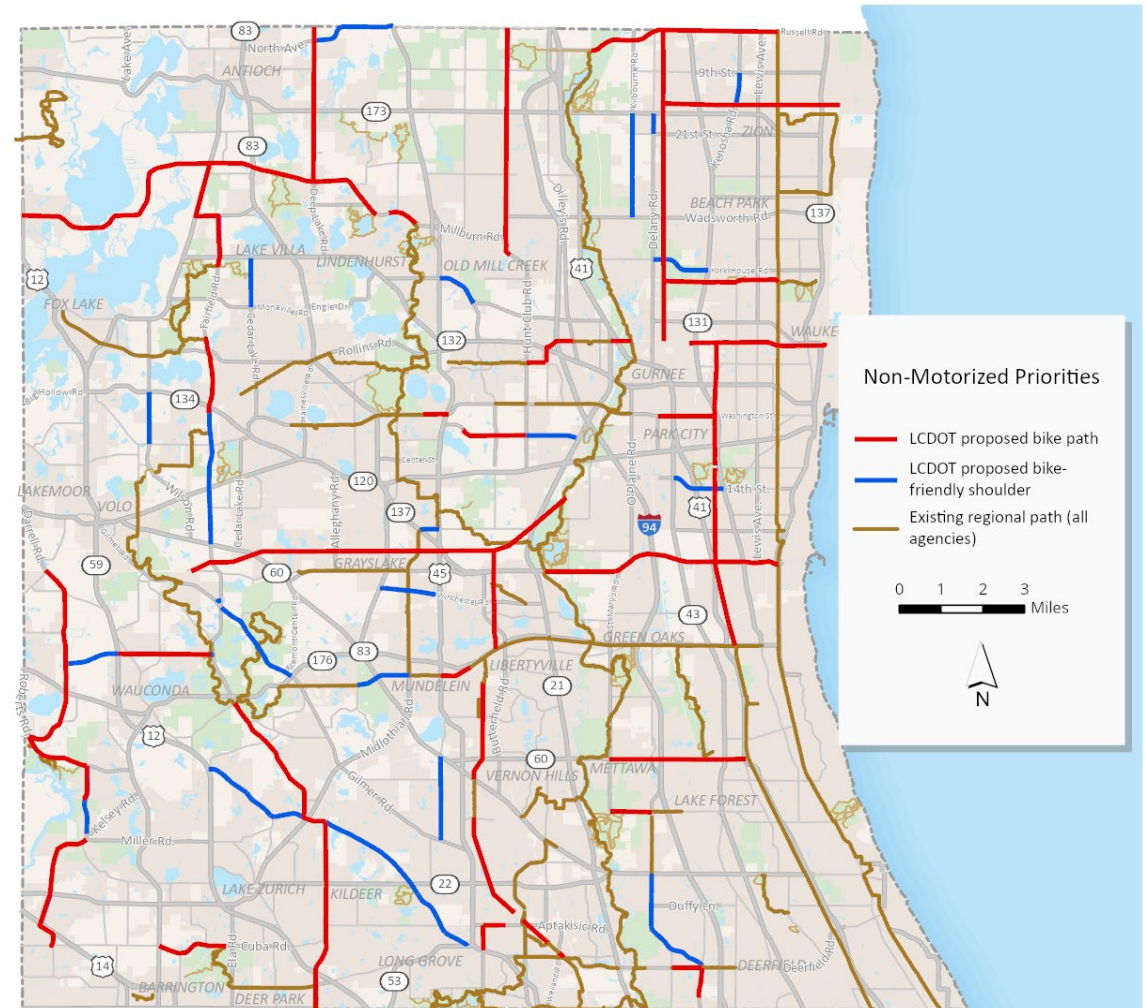
54	Lake-Cook Rd.	Bike Path	2026	B-01616
58	Miller Rd.	Sidewalk	2022	B-01263
61	Old McHenry Rd.	Bike Path, Paved Shoulder, Sidewalk	Post-2027	B-01546
64	Prairie Rd.	Bike Path, Paved Shoulder, Sidewalk	2024	B-01500
66	Quentin Rd.	Sidewalk	2022	B-01572
68	Robert McClory Bike Path*	Bike Path	2025	B-01702
69	Rollins Rd.	Sidewalk	2025	B-01495
71	Russell Rd.	Bike Path, Paved Shoulder	2024	B-01445a
72	Russell Rd.	Bike Path, Paved Shoulder	2025	B-01445b
73	Russell Rd.	Bike Path, Paved Shoulder	2025	B-01445b
76	Skokie Valley Bike Path**	Bike Path	2022	B-01150
78	Stearns School Rd.	Paved Shoulder, Sidewalk	2023	B-01361
82	Wadsworth Rd.	Bike Path, Sidewalk	2022	B-01119
83	Wadsworth Rd.	Bike Path, Paved Shoulder	2024	B-01402a
84	Washington St.	Bike Path	2024	B-01419a
87	Winchester Rd.	Paved Shoulder	2023	B-01365
89	Winchester Rd.	Bike Path	2023	B-01573b
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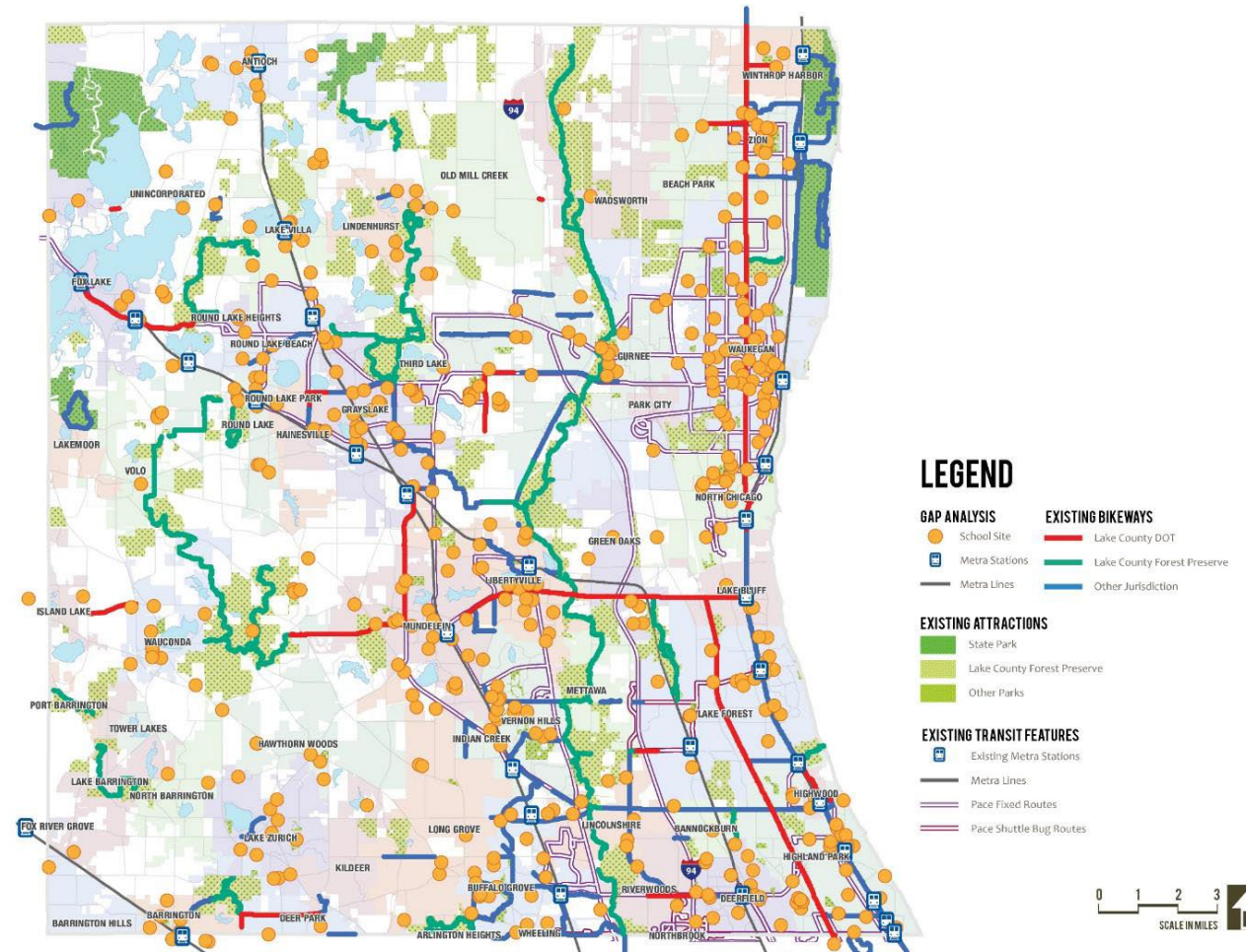
Bike and Pedestrian Priorities

- **Lake County's 2040 Non-motorized plan identifies 310 miles of proposed bike paths**
 - 107 miles under LCDOT jurisdiction
 - 43 miles under LCFPD jurisdiction
 - 160 miles under other jurisdiction, such as State, municipality, or township
- **Advance as stand-alone projects or combined with adjacent roadway project work**



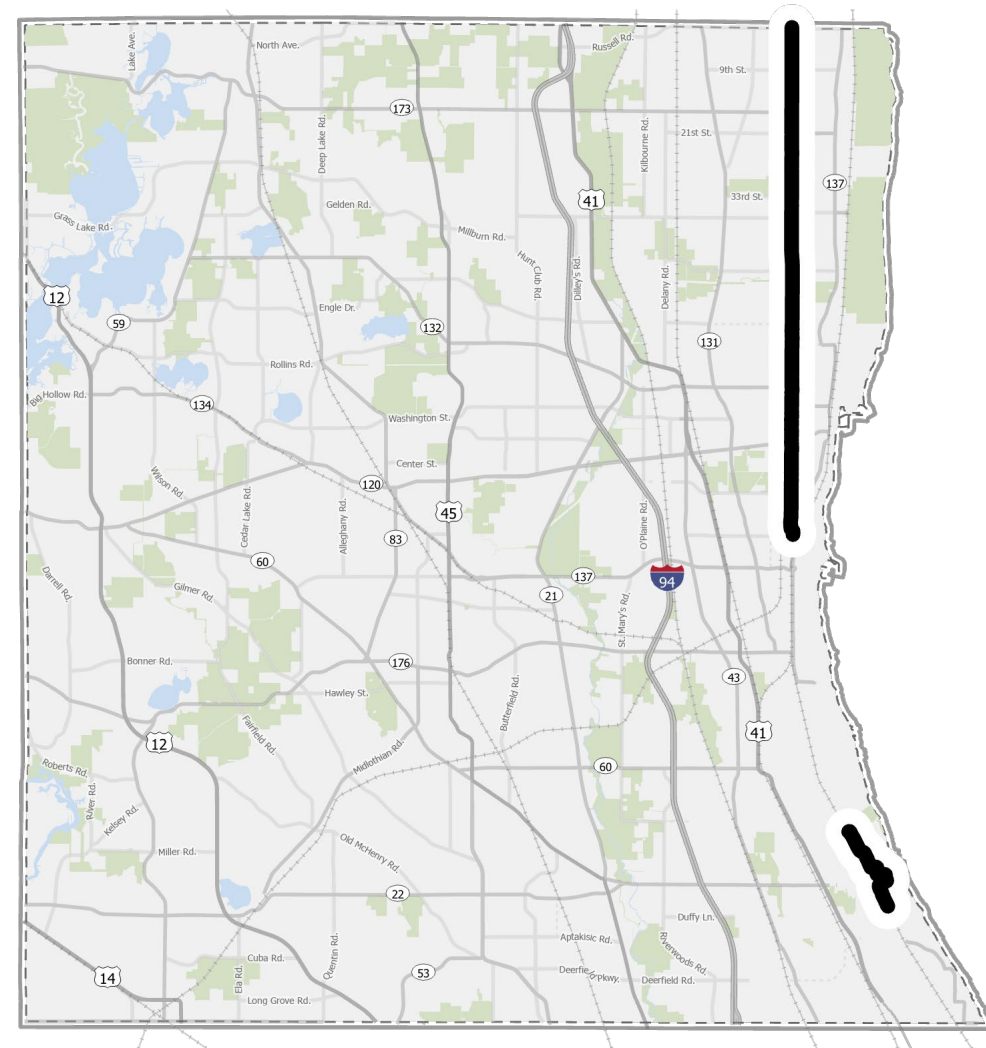
Bike and Sidewalk Gap Analysis

- 2010 study identified 58 strategic gaps, that if filled, would provide regional connectivity
- County pays 100% of cost to fill gaps with local sponsor to own and maintain
- To date, 77% have been programmed or completed



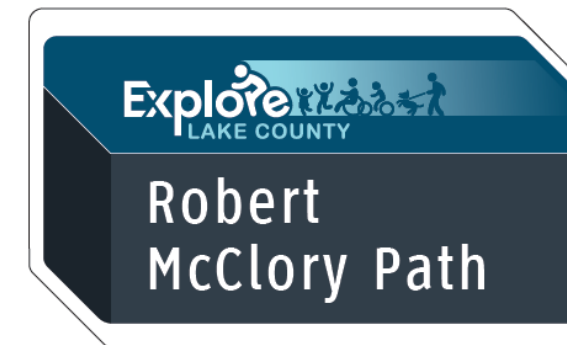
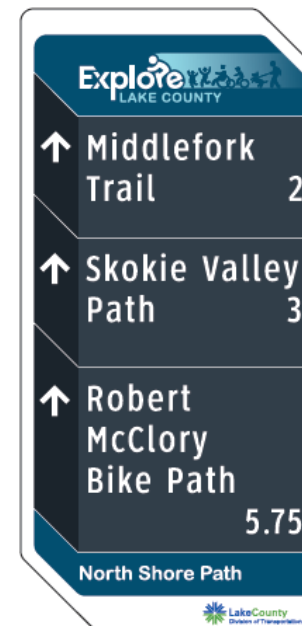
Project Highlight: McClory Bike Path

- **Pave northern 11-mile segment of gravel path**
- **Reconstruct portions of southern segments owned by LCDOT**
- **Improve multiple uncontrolled crossings at 4- & 5-lane roads**
- **Coordinate with local communities to enhance the corridor with trail amenities**



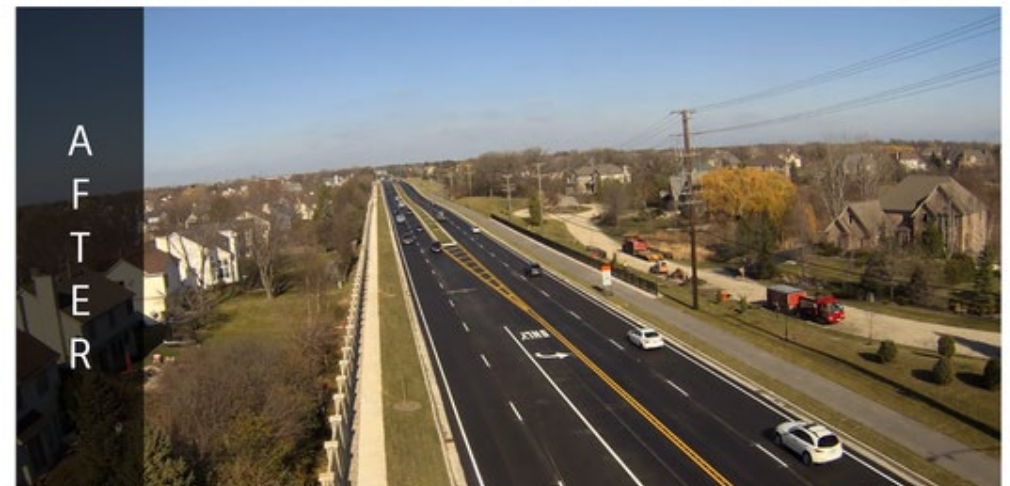
Project Highlight: Wayfinding Signs

- Install Explore Lake County Wayfinding Signage
 - North Shore Path
 - Robert McClory Path
 - Skokie Valley Path



Priority Three: Expansion

- Project selection tools:
 - Lake County 2040 Transportation Plan
 - State Highway Consensus List
 - CMAP ON TO 2050 Regional Plan
 - IDOT Multi-Year Plan
 - Traffic and Safety Data
 - Demographic Trends
 - Inclusive Growth
- Typical projects include:
 - Add lanes
 - Grade separations
 - Realigned or extended roads
 - Paratransit



Regional Plans

State Highway Consensus Plan for Lake County
Lake County Division of Transportation (LCDOT)
lakecountyl.gov/transportation

The State Highway Consensus Plan was developed in 2006 with input from local elected officials and the residents of Lake County. Everyone came together and reached a consensus in support of a transportation system that would be viewed as a model for the state.

One Voice, One Transportation Future

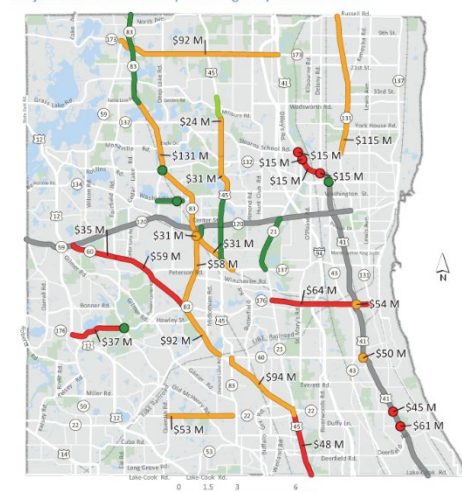
Success:

- IL 21 (IL 137 to IL 83/Rollins Rd)
- IL 83 (Petite L. to US 45/Millb.)
- IL 176 (Fairfax to US 45 (IL 137))

Progress: \$300M in work

Traffic for Improvement

Project Status: Lake County State Highway Consensus Plan



Legend:

- Regional Highway Corridor Study Complete
- Not Started
- Engineering Underway
- Construction in Progress
- Construction Complete
- Intersection

One Voice, One Transportation Future

LAKE COUNTY 2040 TRANSPORTATION PLAN

The Lake County 2040 Transportation Plan is a long range plan that identifies deficiencies and recommends improvements necessary to address the future transportation needs of Lake County addressing roadway, transit, and non-motorized modes of travel.



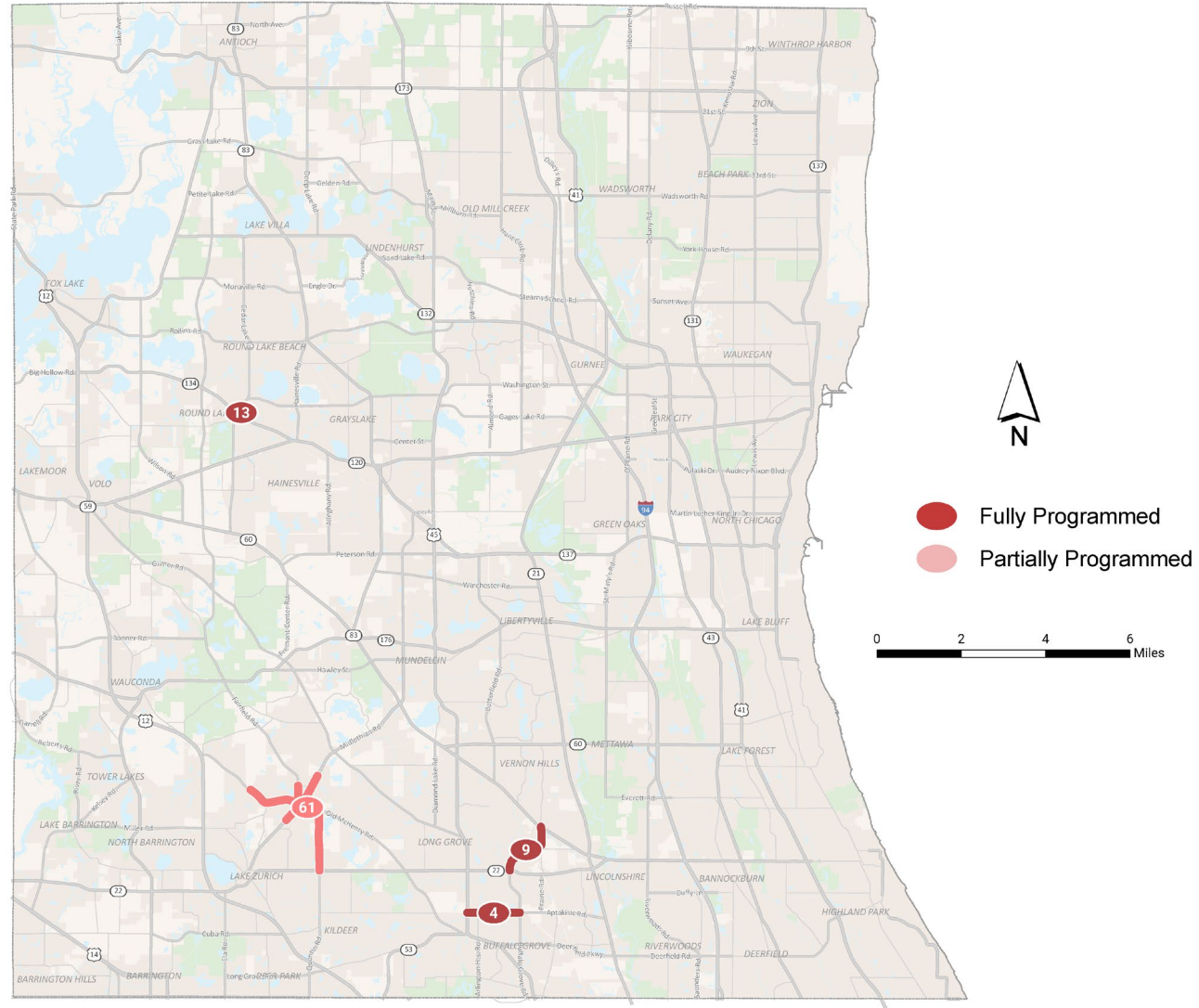
ON TO 2050

FY 2022 - 2027
Proposed Highway Improvement Program



Illinois Department of Transportation

Expansion | 2022 - 2027



Expansion Projects

Expansion Projects				
Map ID	Route	Work Type	Program Year	CPMS PIN
4	Aptakistic Rd.	Road Widening	2022	B-00739a
9	Buffalo Grove Rd.	Reconstruct and Widen	2026	B-01358
13	Cedar Lake Rd.	Realignment	2024	B-00752
61	Old McHenry Rd.	Reconstruct and Widen	Post-2027	B-01546

What's New in Expansion?

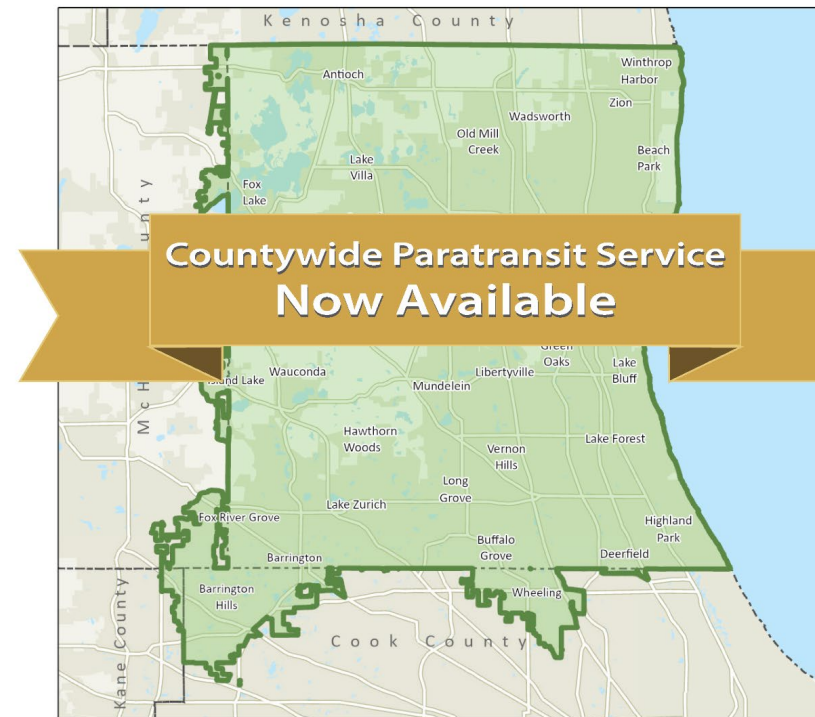
- **Ride Lake County Borderless Paratransit (Annual Operations)**
- **Buffalo Grove Rd Widening, IL22 to US45 (Construction)**
- **Cedar Lake Road Realignment, Hart Rd to Nippersink Rd (Construction)**
- **Old McHenry Crossings Project (Construction)**

Project Highlight: Paratransit

- **Coordinated Countywide Borderless Service launched May 1, 2022**
- **Annual county funding to cover 100% of local match**
- **Ridership information for first month of new service:**
 - **1,254 registered riders**
 - **1,793 trips taken**



Book Your Trip!
Call Pace
1-800-201-6646

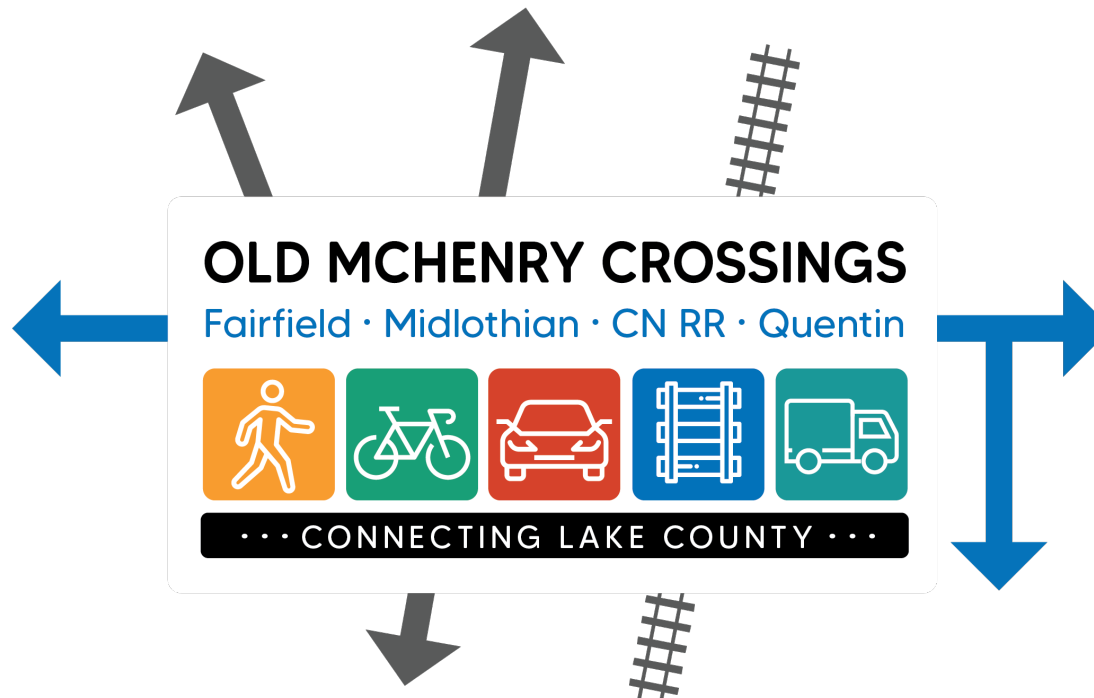


Program Sponsors:

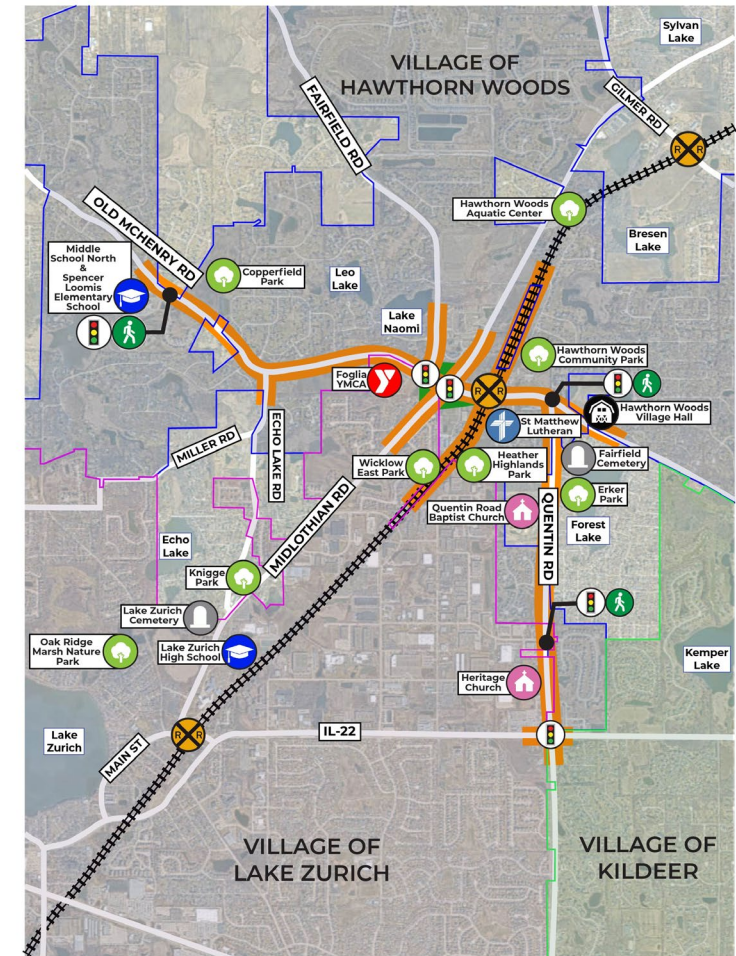


Project Highlight: Old McHenry Crossings

- Phase I Engineering Underway
- Public Informational Meeting in Summer 2022



LOCATION AREA MAP

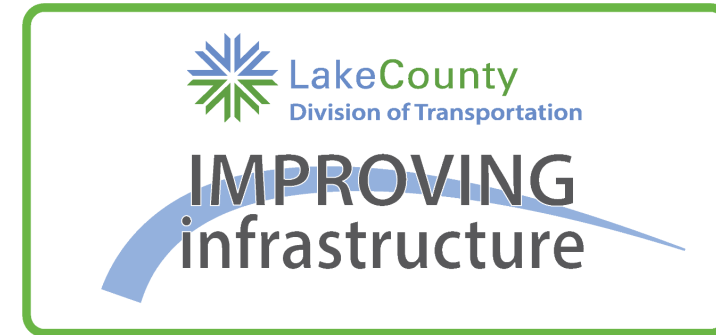


Thank You!

Connect with us!



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- Instagram.com/lakecountydot
- lakecountypassage.com
- lakecountyil.gov/RLC
- Radio 1620AM





Questions

Shane E. Schneider, P.E.

County Engineer

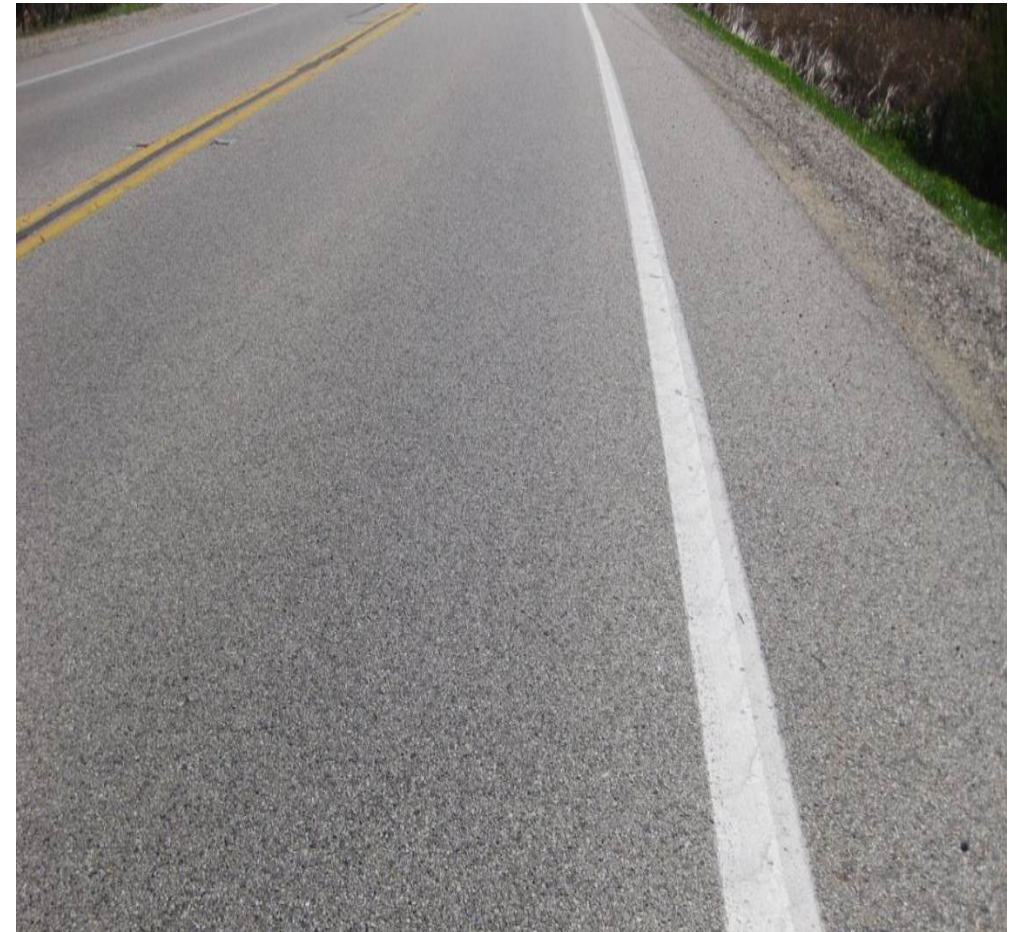
847.377.7400



Background Asset Information

Assets: Pavement

- Lane miles 915
- Centerline miles 303
- Miles paved shoulder 223
- Average age of roadway (years) 50
- Average age of surface (years) 10



Assets: Culverts

- **A variety of culvert materials:**
 - **Concrete**
 - **Corrugated metal pipe (CMP)**
 - **Composite**
 - **PVC**
- **More than 650 individual culverts, totaling over 49,000 feet**
- **Ranging in sizes from 12-inch to 12-feet in diameter**



Assets: Signs

- 8,369 Regulatory
 - 10,724 Guide
 - 5,847 Warning/Object Marker
 - 2,2641 Information
 - 536 School
-
- 28,117 Total Signs



Signs installed/maintained by LCDOT
Source: LCDOT sign inventory, April, 2022

Assets: Non-Motorized Travel

- Bike/pedestrian bridges 15
- Tunnels and underpasses 15
- Miles of bike facilities 65
- Miles of bike friendly shoulder 142



Assets: Other

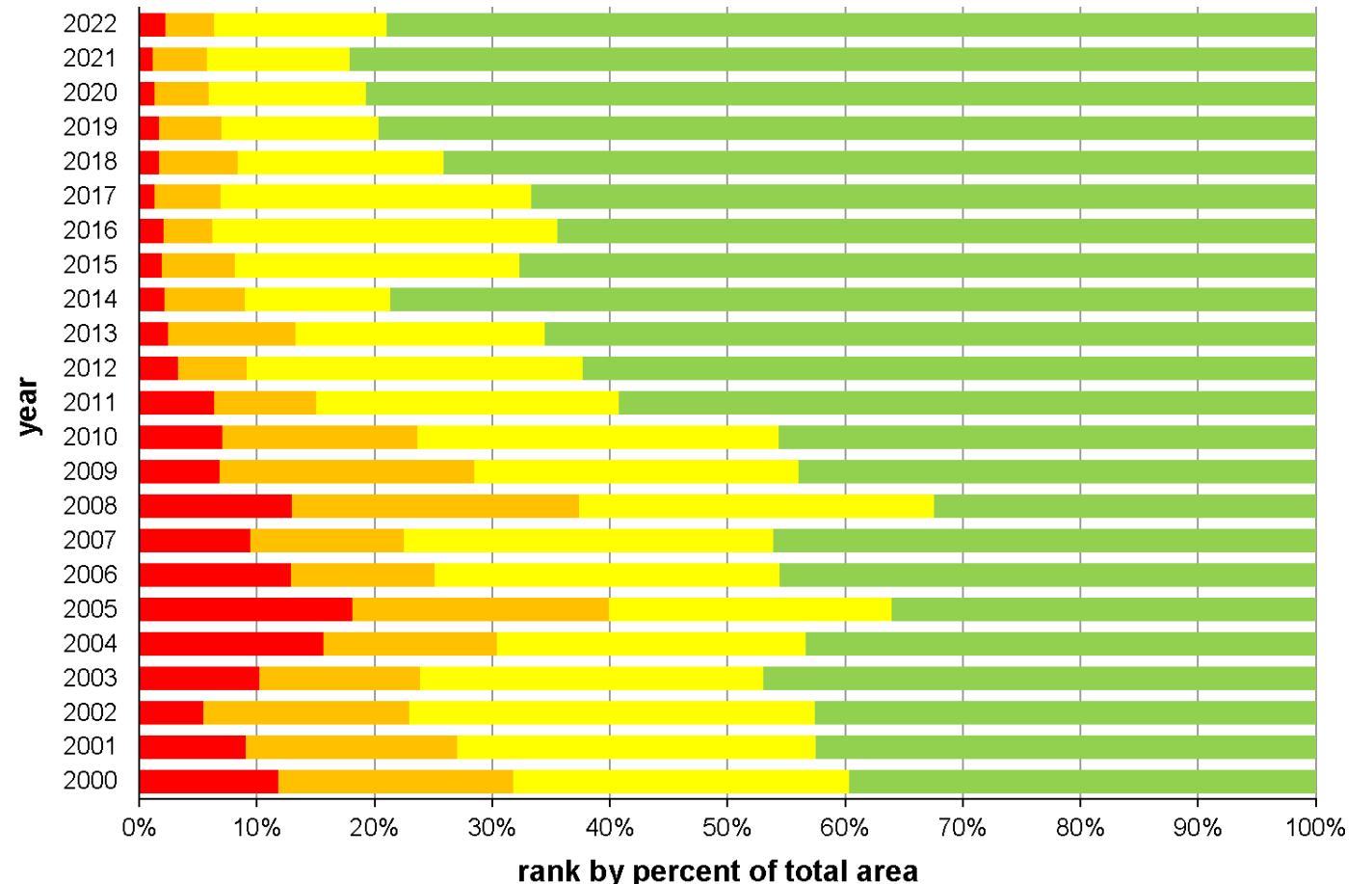
- 17,664 storm sewer structures
- 195 miles of storm sewer pipe
- 653 culverts
- 55 stormwater basins
- 51,118 feet of fencing
- 22,234 feet of retaining wall
- 21 miles of guardrail
- 35 landscape areas (99 acres)



LCDOT GIS / May 2022

ARGUS results

- Implemented in **1986**
- Area of failing pavement reduced from 55% to 1%
- For more information, watch LCDOT's 'Pavement Management Techniques' video at: Lakecountyil.new.swagit.com/videos/16338



ARGUS Pavement Management System

- For data-driven, cost-effective decisions:
 - **Where** repairs are needed
 - **What** repair strategies to use
 - **When** repairs will be most effective
- Using these program components:
 - County highway database
 - Automated pavement testing
 - Repair strategies with costs
 - Pavement aging predictions
 - Optimization program



Laser surface testing



Dynaflect

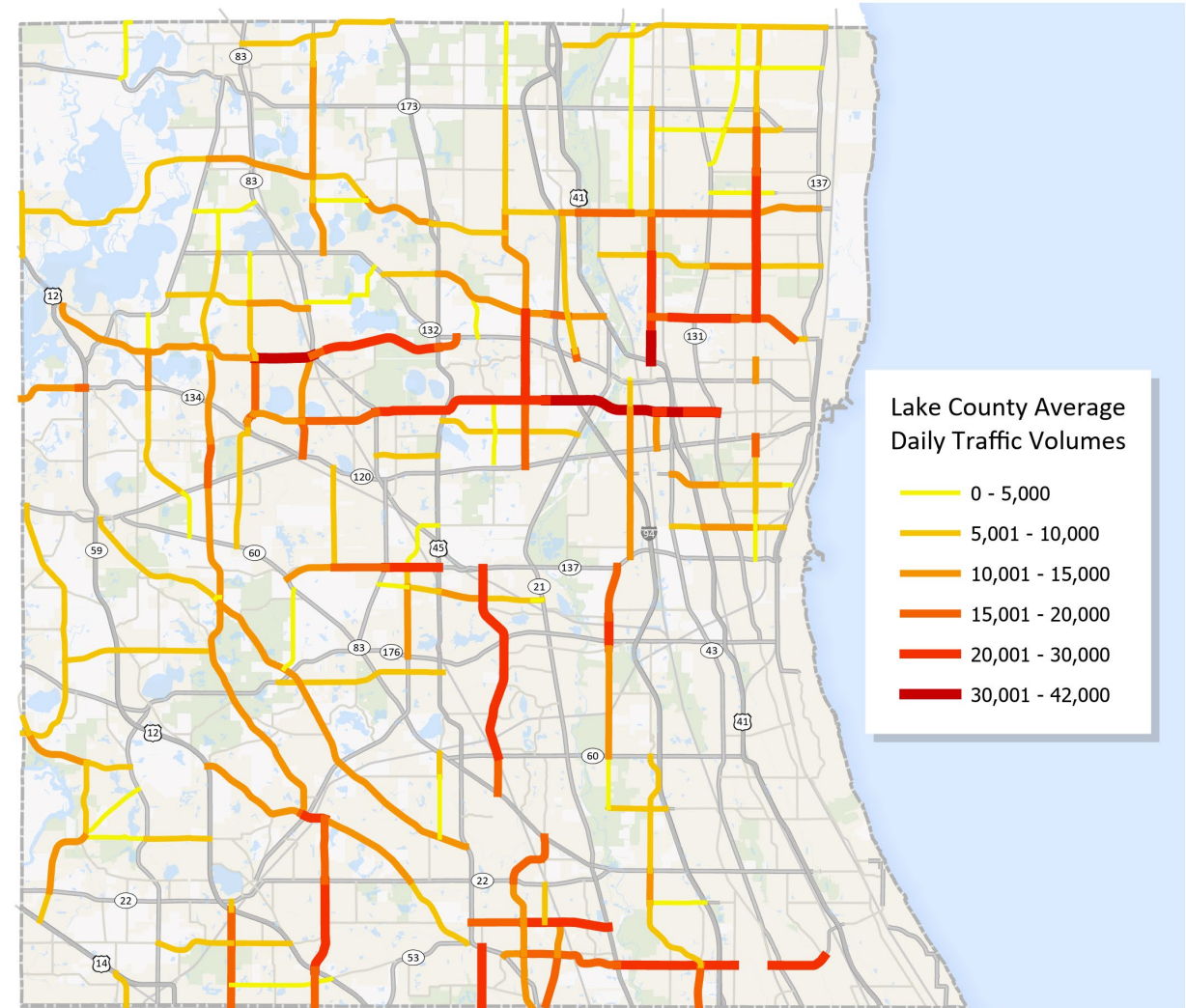
ARGUS Summary

- **Pavement management system *does*...**
 - **Assess the present condition of the system**
 - **Estimate future road conditions**
 - **Identify and rank road projects**
 - **Maximize the condition of the system within the given budget**

- **Pavement management system *does not*...**
 - **Replace professional judgment**
 - **Provide certain detailed project-specific information**
 - **Evaluate storm sewer and other roadway assets**

Traffic Volumes

- Traffic volumes and truck traffic are key lifecycle indicators
- More traffic and heavier vehicles impose more stress and strain on the roadway



Historical Perspective: Crash Data



5-year averages	2006-2010	2007-2011	2008-2012	2009-2013	2010-2014	2011-2015	2012-2016	2013-2017	2014-2018	2015-2019	2016-2020
Number of crashes	4236	3994	3704	3485	3530	3673	3796	3934	3991	4037	3819
Fatality	8	8	8	7	8	8	10	12	15	15	16
Crash with injury	942	931	952	974	978	1004	1046	1085	1102	1113	1054
Property damage only	3286	3147	2744	2504	2544	2662	2741	2836	2874	2909	2749

*Data Source: LCDOT Traffic Department, 4/2022
IDOT 2020 crash data (most recent available)*

Computer Aided Dispatch (CAD) Partnerships

- **11 of 12 dispatch centers (via Central Square) connected with Lake County PASSAGE**
- **Two-way data sharing:**
 - **Video (LCDOT provides)**
 - **Incident data (Dispatch centers provides)**
 - **Combined real-time data shared with public via PASSAGE**

