



McHenry County 2020 - 2024 Transportation Program

Approved: November 19, 2019



Front Cover Photo:

*Deerpass Road Bridge
Completed May 31, 2019
Photograph by MCDOT*

2020-2024

Transportation Program for McHenry County

prepared by

McHenry County Division of Transportation
16111 Nelson Road
Woodstock, Illinois 60098

815/ 334-4960

www.mchenrycountydot.org

Mission Statement

The McHenry County Division of Transportation promotes responsible public policy, ethical and high quality services and is dedicated to providing enhanced mobility while promoting a safe and efficient transportation system.

endorsed by the

Transportation Committee
of the McHenry County Board

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Michael Skala – District 5

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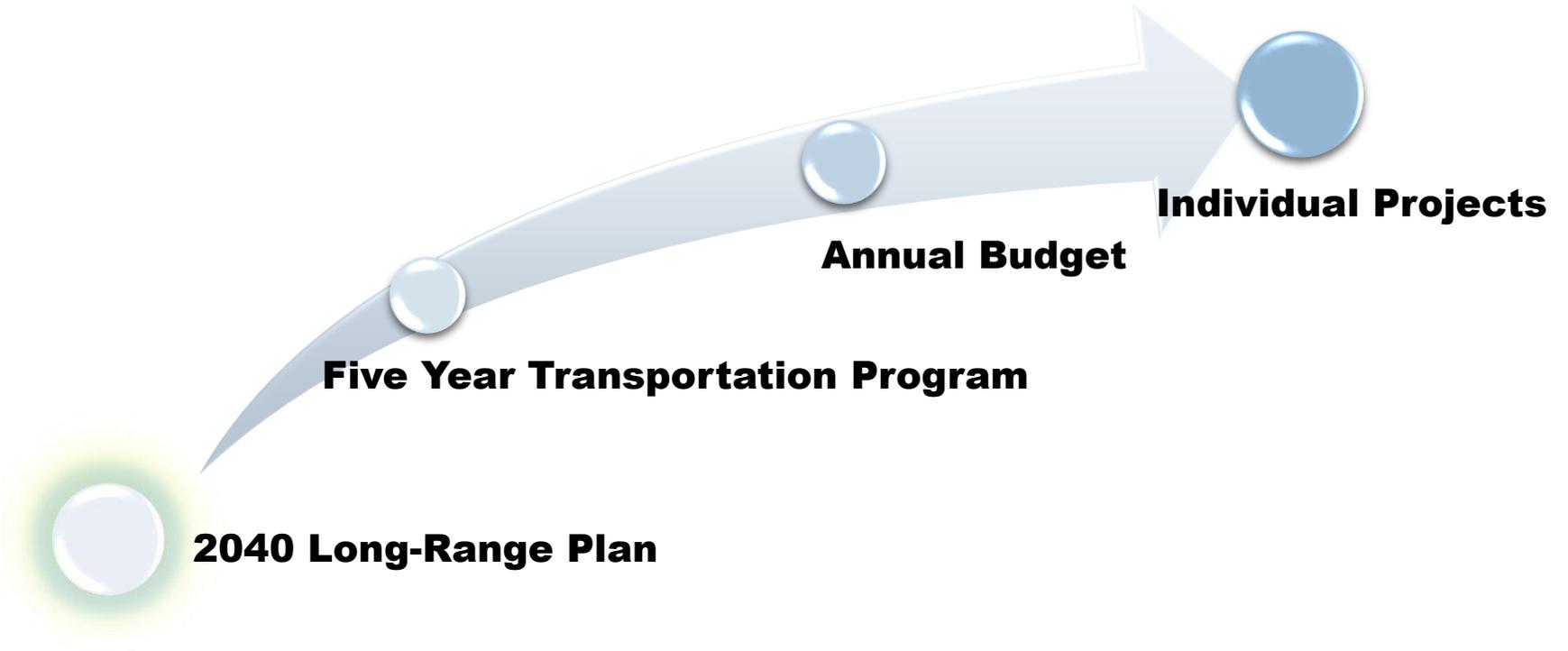
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1. Executive Summary

The McHenry County 2020-2024 Transportation Program (“the 2020-2024 Program”) is a financial and planning tool required by State statute to assist with the development of the annual budget and is consistent with the County’s transportation and strategic plans (See Figure 1). The 2020-2024 Program includes information to better coordinate and leverage the annual appropriations of Federal and State dollars administered by the Metropolitan Planning Organization (MPO) and the State Department of Transportation (IDOT), as recommended by the County’s 2014 Strategic Plan and as outlined in the County Board approved 2016 Action Plan. As required by State statute it contains a list of major improvements anticipated within the next five years, an estimate of revenues which will become available during that period, and states the work the County intends to undertake with respect to planning, design, construction, maintenance, and other related efforts. **This Five Year Program covers the time period from December 1, 2019 to November 30, 2024, and is prepared in advance of the start of the County’s 2020 fiscal year.**

Figure 1: McHenry County Long Range Transportation Plan Implementation



The 2020-2024 Transportation Program is an update to the [McHenry County Long-Range Transportation Plan](#) (“the 2040 Plan”) which was approved in March of 2014. The 2020-2024 Program also conforms to Vision and Strategies for Quality Infrastructure contained in the [County’s Strategic Plan](#).

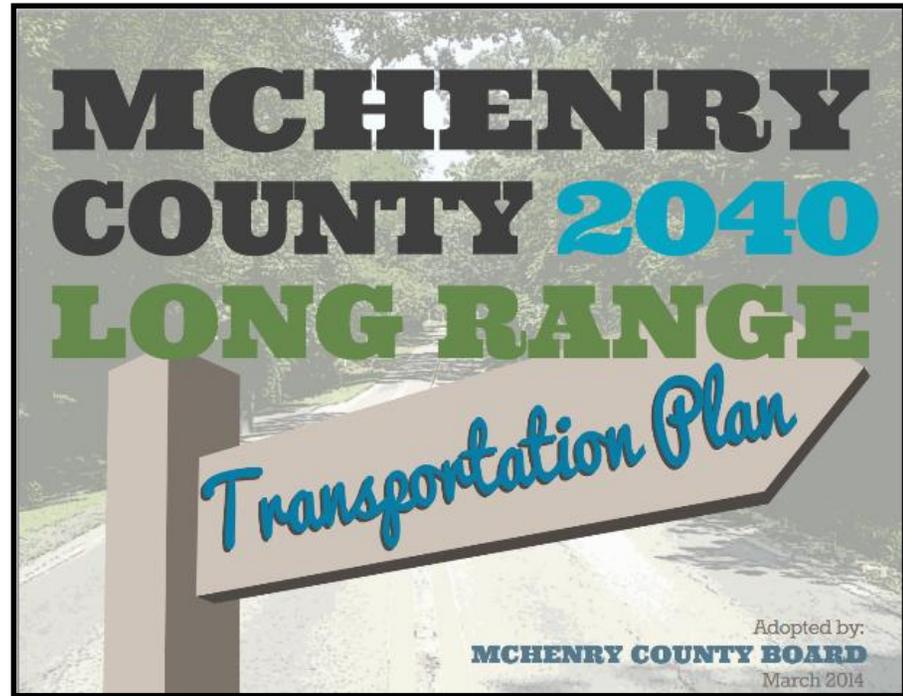
McHenry County 2040 Long-Range Transportation Plan

The six goals, and corresponding objectives (pg. 18-20 of the *2040 Plan*), were adopted by the McHenry County Board in order to guide future implementation of transportation projects:

2040 Long Range Transportation Plan Goals

- 1) Mitigate highway congestion,
- 2) Make transportation safer,
- 3) Promote mobility for all residents,
- 4) Provide transportation choices,
- 5) Preserve environmental quality, and
- 6) Link transportation and land use.

After three years of soliciting input from the public, four transportation projects were identified and consistently supported by the public, local agencies, and local businesses. The top four projects identified as part of the 2040 planning process are:



Illinois Route 47

Between Reed Road in Huntley and U.S. 14 in Woodstock*

Illinois Route 47

Between U.S. 14 and Charles Road in Woodstock*

Illinois Route 31

Between IL 176 in Crystal Lake and IL 120 in McHenry*

Metra Union
Pacific Northwest

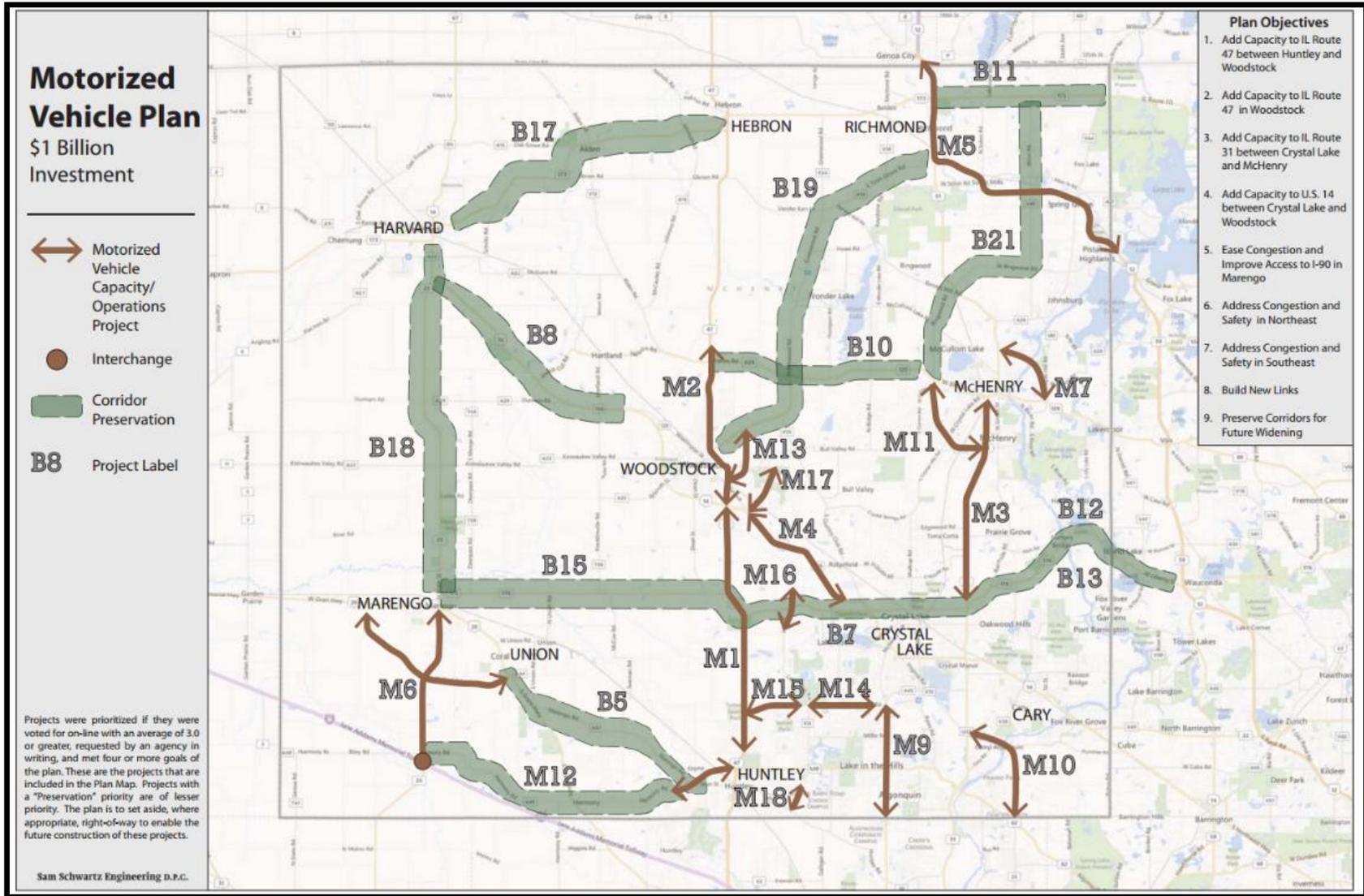
Commuter Rail Line Upgrades

The *2040 Plan* outlines in detail the plan's project priorities by mode of travel.

Figures 2, 4 and 6 highlight the motorized vehicles, transit, and bicycle and pedestrian plans, respectively. These Figures show total investment, plan objectives, and project labels (see the *2040 Plan* Appendices for more details on specific project identified in these plans).

**The Illinois Route 47 and 31 projects are led by the State of Illinois. No McHenry County funding has been included in this Transportation Program for these projects*

Figure 2: Motorized Vehicle Plan, the 2040 Plan (pg. 98)



*M4 Built – U.S. Route 14 from Crystal Lake to Woodstock

*M6, M9, M14 are included in the 2020-2024 Transportation Program



\$39 million each year for new highways



\$21 million each year for new transit



\$2.5 million for new bicycle / pedestrian facilities

Figure 3: The 2040 Plan Annual Average Investment

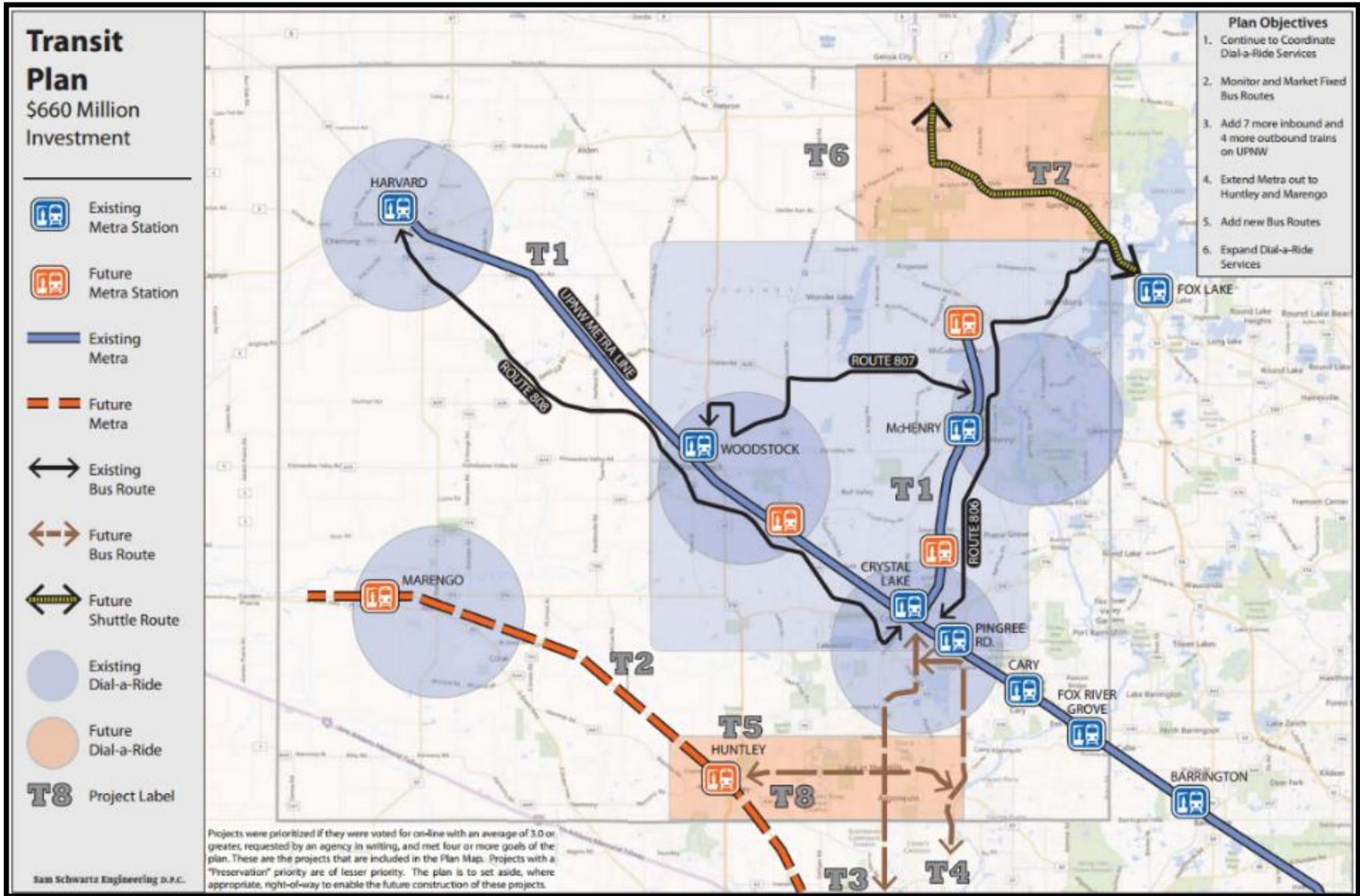
In addition to realizing these projects, the 2040 Plan calls for a greater focus on addressing congestion on local streets. Future traffic models indicate that the local streets will likely see a more dramatic increase in congestion levels than State and County highways.

The 2040 Plan calls for transportation infrastructure and operations to be coordinated in order to enhance free movement in our towns for all roadway users. Figure 3 shows the estimated amount of funding per year for motorized vehicles, transit, and non-motorized transportation in the 2040 Plan based on past and current trends and future revenues and infrastructure maintenance costs. The 2040 Plan includes anticipated funding from all government agencies, not just McHenry County.

McHENRY COUNTY'S TRANSPORTATION NETWORK CONSISTS OF ROADS, BRIDGES, TRANSIT SERVICES AND SHARED-USE PATHS UNDER THE JURISDICTION OF:

- THE STATE OF ILLINOIS
- McHENRY COUNTY
- 29 MUNICIPALITIES
- 17 TOWNSHIP ROAD DISTRICTS
- ILLINOIS TOLLWAY
- METRA
- PACE
- AND THE McHENRY COUNTY CONSERVATION DISTRICT

Figure 4: Transit Plan, the 2040 Plan (pg. 83)



*T3 – Pace Bus Route 550 – Elgin to Crystal Lake Operational

*T6 – Dial-a-Ride for Richmond Township Operational

In total, the 2040 Long Range Transportation Plan includes approximately \$1 billion in projects for motorists, \$660 million for transit projects, and \$63 million for bicycle and pedestrian projects. To implement these projects and to best prepare for the future, the following strategies will be key:

- 1 Build legislative support for Metra service upgrades
- 2 Prioritize preventative maintenance on roadways
- 3 Leverage State funding for bicycle and pedestrian infrastructure and corridor preservation along State and U.S. Highways
- 4 Build more robust local road networks including accommodations for all users to mitigate local traffic congestion

Figure 5: Strategies from the 2040 Transportation Plan

Public Communication

The McHenry County Division of Transportation has started utilizing new communication channels to interact with the public. Tools like Facebook have expanded the reach of information that is communicated to the public, and has allowed residents to share information quickly and easily with Division of Transportation staff.





McHenry County
Division of
Transportation
@McHenryCountyDOT

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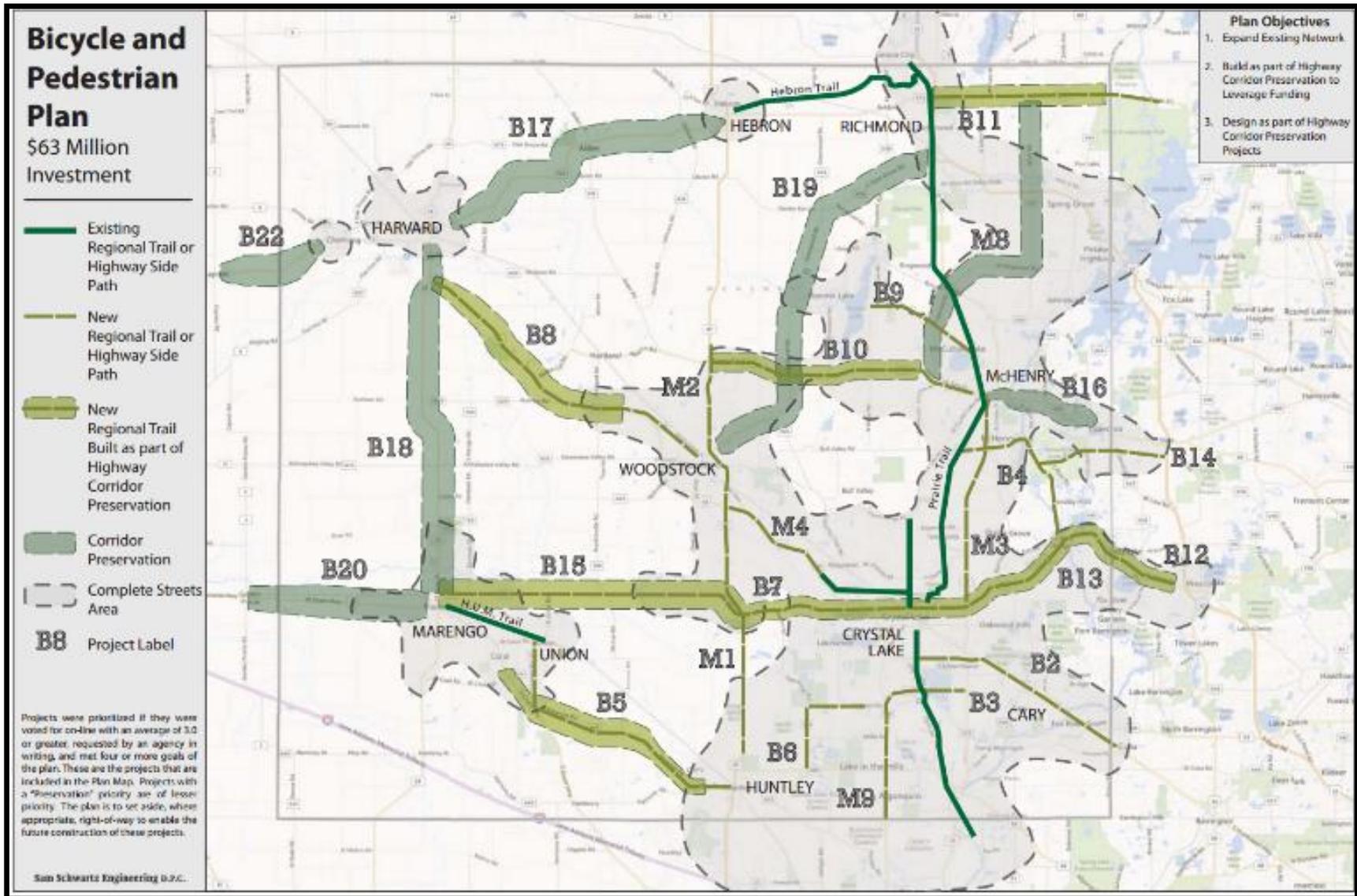
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Figure 6: Bicycle and Pedestrian Plan, the 2040 Plan (pg. 67)



*M4 Built – Multi-use path from McHenry County College to Woodstock

*B3, B4, B6, M9 are included in the 2018-2022 Transportation Program

ON TO 2050

The Chicago Metropolitan Agency for Planning (CMAP) adopted [ON TO 2050](#), the region's next comprehensive plan, in October of 2018. The plan was created by engaging stakeholders, including representatives from McHenry County, from across the seven county region. ON TO 2050 has three principles that can be found throughout each chapter of the Plan – Inclusive Growth, Resilience, and Prioritized Investment – which cut across the plan's goals for community, prosperity, environment, governance and mobility.



ON TO 2050 COMPREHENSIVE REGIONAL PLAN

Draft
for public
comment

This draft document will be available for public comment from June 15 to August 14, 2018. Submit comments at www.cmap.illinois.gov or by email using the subject line "ON TO 2050 Public Comment" to ONTO2050@cmap.illinois.gov. Or comment by mail to Chicago Metropolitan Agency for Planning, Attention: ON TO 2050 Public Comment, 233 South Wacker Drive, Suite 800, Chicago IL 60606, or by phone to 312-454-0400.



2017-2020 Strategic Plan for McHenry County

On February 17, 2017 the County Board adopted a new Strategic Plan for McHenry County. The 2017-2020 Strategic Plan sets goals for McHenry County government and provides a framework for the Division of Transportation activities and investments through implementation strategies. The Division of Transportation works to implement the goals of the Quality Infrastructure section of the Strategic Plan through its Long-Range Transportation Plan, Five Year Transportation Program, annual budget, and individual projects.

Quality Infrastructure Goals from the Strategic Plan include:

1. Facilitate the infrastructure necessary to improve access to high-speed internet throughout McHenry County
2. Improve McHenry County's access to the Interstate Highway System
3. Promote mobility for all County residents by providing choices in the transportation network including walking, biking and public transit
4. Address short-and-long term capital and facility needs

2019 Highlights

The McHenry County Division of Transportation budgeted \$36.6 million in 2019 to maintain and improve the County's transportation network. Highlights from 2019 includes:

- ✓ Construction ongoing on Randall Road – stage 1
- ✓ 36 lane miles of pavement preservation
- ✓ Completion of the Deerpass Road, Union Road, and O'Brien Road Bridges
- ✓ Completing construction of the River at Dowell Road roundabout

2020-2024 Program Highlights

The McHenry County 2020-2024 Five Year Transportation Program includes \$197.3 million in project expenditures, including:

- \$46.8 million for capacity and operational changes to Randall Road to complete stage 1 and begin stage 2 (\$36.8 million from the County).
- \$26.7 million for County roadway pavement preservation and resurfacing.
- \$5.4 million from the County to complete the Route 23 at I-90 interchange
- \$15.2 million for the provision of MCRide dial-a-ride service for McHenry County (\$3.6 million from the County.)
- \$3.4 million for the Nondedicated Subdivision Road Construction Program.

Project Prioritization

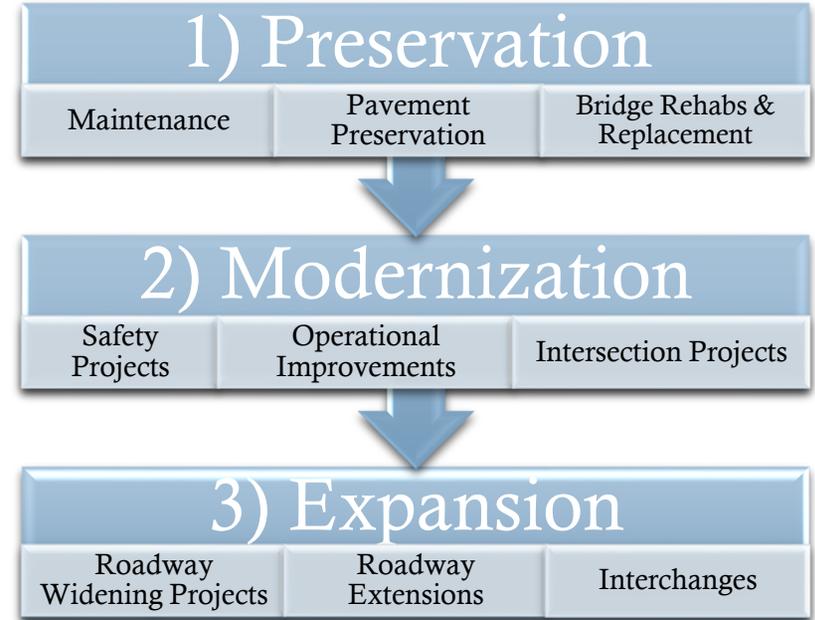


Figure 7: Project Prioritization

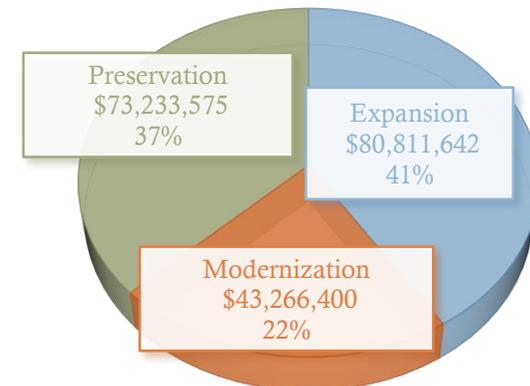


Figure 8: Total Expenditures by Project Category, 2020-2024

2020-2024 Program Development

In updating the 2020-2024 Program, system preservation projects (general maintenance, bridge improvements and replacement, pavement preservation) are the highest funding priorities. System modernization (safety, operational improvements) is a secondary priority. System expansion projects (highway capacity) are programmed after funding is designated for preservation and modernization. These priorities reflect the fact that the McHenry County Division of Transportation is a full service transportation agency. It provides planning, engineering, construction management, capital investments, and operational support to address the demands of maintaining the transportation network in McHenry County in a safe and efficient manner.

Program Type	McHenry County	State	Federal	Local/Other	Total
County Highway Maintenance Program	\$15.2	\$0.0	\$0.0	\$0.0	\$15.2
County Highway Pavement Preservation	\$26.7	\$0.0	\$0.0	\$0.0	\$26.7
County and Township Bridge Program	\$12.6	\$0.9	\$18.6	\$0.0	\$32.1
Public Safety and Health	\$5.5	\$0.3	\$3.1	\$0.0	\$8.8
County Highway Operational and Capacity Program	\$45.7	\$0.0	\$10.0	\$1.6	\$57.3
State Highway Program	\$5.5	\$2.2	\$7.7	\$0.0	\$15.4
Bicycle, Pedestrian, and Transit Program	\$21.4	\$0.0	\$4.0	\$8.9	\$34.3
Miscellaneous Program	\$7.1	\$0.0	\$0.4	\$0.0	\$7.5
Grand Total	\$139.7	\$3.4	\$43.7	\$10.5	\$197.3

Table 1: Programmed Expenditures 2020-2024, by Program Type (in Millions)

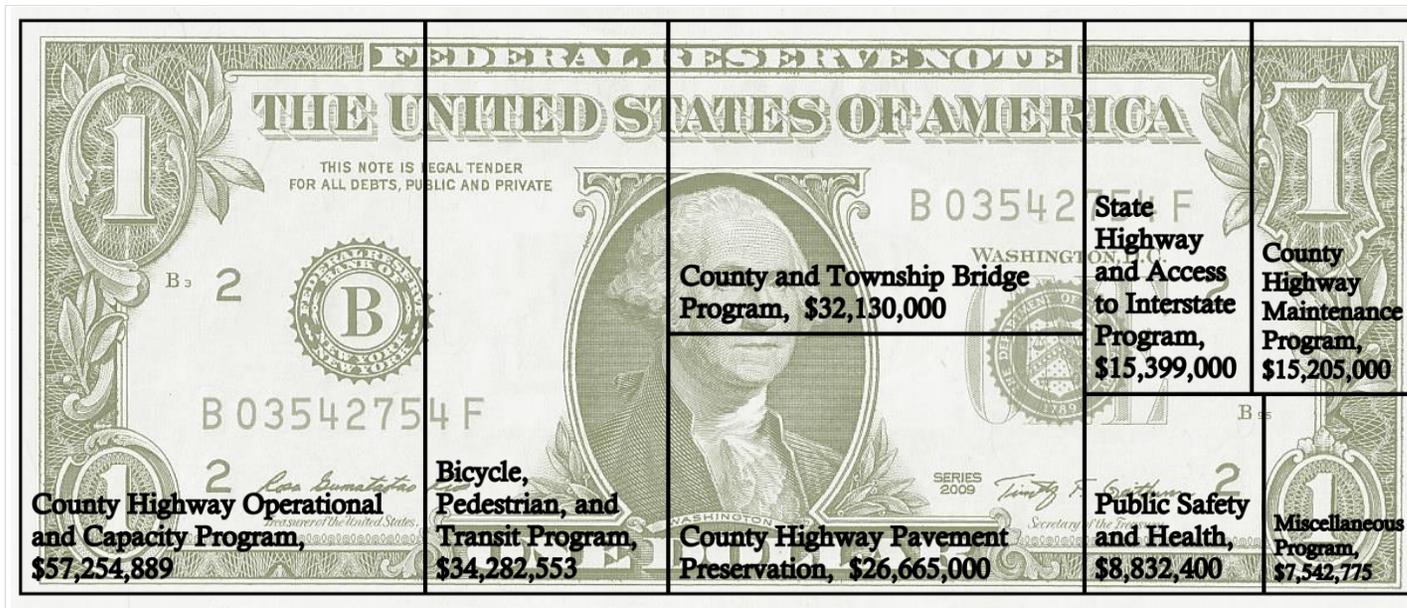


Figure 9: Programmed Expenditures 2020-2024

Funding Priorities

County Maintenance Program

The *County Maintenance Program* includes funds for materials needed to maintain County roadways including salt for snow removal, sign materials, paint for lane striping, and traffic signal maintenance. Over the next five years, the program includes \$15.2 million (8% of total expenditures) for roadway maintenance.

County Pavement Preservation Program

The *County Pavement Preservation Program* includes funds for evaluating pavement condition on a regular basis and performing crack sealing, resurfacing, and roadway rehabilitation. Over the next five years, the program includes \$26.7 million (14% of total expenditures) for pavement management and roadway rehabilitation projects.

County and Township Bridge Program

The *County and Township Bridge Program* includes funds for biennial bridge inspections, emergency repairs, and rehabilitation and reconstruction for bridges, drainage ways, and storm sewer systems. Consistent with the McHenry County Strategic Plan's implementation strategy to replace aging bridges, all structures with structural rating under 60 on a 100 scale are programmed to begin engineering. Over the next five years, the program includes \$32.1 million (16% of total expenditures) for 21 bridge replacement or rehabilitation projects and other bridge work. Of that amount, \$12.6 million are from County sources (Matching and Bridge Funds).

Public Safety and Health Program

The *Public Safety and Health Program* includes funds for projects that will improve safety for both motorists and non-motorists in McHenry County. Intersections continue to be where most crashes occur. In particular, special attention is given to what are called "critical intersections and corridors", which are identified by the State of Illinois in their safety tier analysis. In total, there are approximately 100 intersections under County jurisdiction, 70 intersections under County and IDOT jurisdiction, and 525 intersections under County and municipal and/or township jurisdiction. Over the next five years, \$8.8 million (4% of total expenditures) is programmed for public safety projects.

County Roadway Operational and Capacity Program

The *County Roadway Operational and Capacity Program* includes funds for projects that improve traffic flow, widen existing County highways, or build new County roads. Add lanes projects are high cost and are only undertaken after extensive planning and engineering. Over the next five years, \$57.3 million (29% of total expenditures) is programmed for operational and capacity projects. Of that amount, the County is responsible for \$45.7 million.

State Highway Program

The *State Highway Program* includes funds for projects that are part of the State highway network or adjacent to the State highway network. Over the next five years, \$15.4 million (8% of total expenditures) is programmed for State highway projects. The County is responsible for \$5.5 million for these projects.

Bicycle, Pedestrian, and Transit Program

The *Bicycle, Pedestrian, and Transit Program* includes funds to support these modes of transportation, consistent with the *McHenry County 2040 Long-Range Transportation Plan*. Over the next five years, \$34.3 million (17% of total expenditures) is programmed for bicycle, pedestrian, and transit projects. Of that amount, the County is responsible for \$21.4 million.

Miscellaneous Program

The *Miscellaneous Program* includes funds for various other programs, projects, and initiatives that the Division of Transportation undertakes. Over the next five years, \$7.5 million (4% of total expenditures) is programmed for miscellaneous projects.

Anticipated Revenues

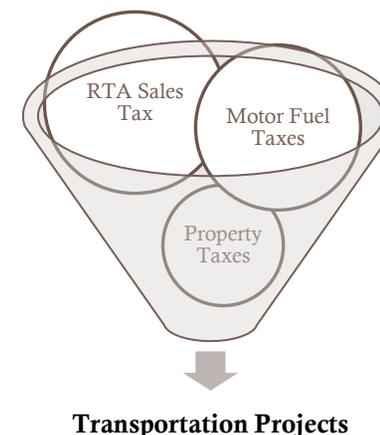
Transportation Revenue Sources

The 2020-2024 Transportation Program is funded primarily by a sales tax – the County Regional Transportation Authority Sales Tax (RTA Sales Tax) and two motor fuel tax funds – the State Motor Fuel Tax allotted to the County (County MFT) and County Option Motor Fuel Tax (County Option MFT). Two property tax levies – County Bridge and County Matching – are also used, as are reimbursements, state and federal grants, local municipal, township or developer contributions, bank account interest, and prior year fund balances.

The RTA Sales Tax is a 0.75% tax on all sales in the collar counties of DuPage, Kane, Lake, McHenry and Will, and a 1.25% tax on all sales in Cook County. One-third of the collar county (0.25%) proceeds are awarded back to the County where the tax is collected to be spent only on transportation and/or public safety. More details on the RTA Sales Tax can be found on the RTA's [RTAMS](#) website.

On July 1, 2019 the State of Illinois Motor Fuel Tax was doubled from \$0.19 to \$0.38 per gallon, with a portion allotted back to the McHenry County Division of Transportation based on the number of motor vehicle registration fees received from the County. The County Option Motor Fuel Tax is a separate gas tax of \$0.04 per gallon on all fuel purchased within McHenry County. The 2019 Illinois Capital Bill allows McHenry County to increase the County Option Motor Fuel Tax by up to an additional \$0.04 per gallon, to a total of \$0.08 per gallon.

Between 2011 and 2018, total County tax receipts for dedicated transportation funds has increased by 8.3%, owing primarily to increased RTA Sales Tax collections. During that time, the State Motor Fuel Tax allocation (MFT) and the County Option Motor Fuel Tax (Option MFT) both experienced very little growth, with a small increase occurring in 2015 and 2016 after a long period of declining MFT receipts (See Table 2, Page 13). Declining motor fuel tax revenue can be attributed to increasing vehicle fuel efficiency, a declining per-capita vehicle miles traveled (VMT), and a lack of population growth throughout the State of Illinois and in McHenry County. During this same period, inflation reduced the value of each dollar by 7%. With the recent increase in the State MFT, McHenry County expects to receive an additional \$3 million annually (an increase from \$5 million to \$8 million per year). In addition, because the State MFT was indexed to the rate of inflation, the allotments will likely grow over time.

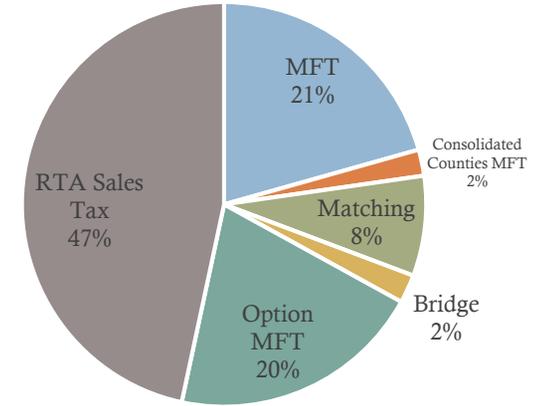


In fiscal year 2015 a portion of revenues previously allocated to the Bridge fund were shifted to the Matching fund. Matching funds can be used for many project types including bridges.

Table 2: Historical Tax Receipts, by Fund; 2014-2019 (in Millions)

Tax Year	MFT	Consolidated Counties MFT	Matching	Bridge	Option MFT	RTA Sales Tax	TOTAL
2015	\$4.1	\$0.6	\$1.8	\$0.5	\$4.1	\$9.9	\$21.0
2016	\$4.3	\$0.7	\$1.8	\$0.5	\$4.6	\$10.2	\$22.1
2017	\$4.4	\$0.3	\$1.8	\$0.5	\$4.7	\$10.3	\$22.0
2018	\$4.4	\$0.7	\$1.7	\$0.5	\$4.7	\$10.4	\$22.4
2019 projected	\$5.5	\$0.0	\$1.7	\$0.5	\$4.3	\$10.5	\$22.5
Five-Year Total	\$22.7	\$2.3	\$8.8	\$2.5	\$22.4	\$51.3	\$110.0
% Δ 2015 to 2019	34.1%	-100.0%	-5.6%	0.0%	4.9%	6.1%	7.1%

2015-2019 County Transportation Revenue



Tax Year	MFT	Matching	Bridge	Option MFT	RTA Sales Tax	TOTAL
2020	\$8.0	\$1.7	\$0.5	\$4.6	\$10.7	\$25.5
2021	\$8.2	\$1.7	\$0.5	\$4.6	\$11.0	\$26.0
2022	\$8.3	\$1.7	\$0.5	\$4.7	\$11.4	\$26.5
2023	\$8.4	\$1.7	\$0.5	\$4.7	\$11.7	\$27.1
2024	\$8.5	\$1.7	\$0.5	\$4.8	\$12.0	\$27.6
Five-Year Total	\$41.4	\$8.5	\$2.5	\$23.5	\$56.8	\$132.7
% Δ 2020 to 2024	6.3%	0%	0%	4.3%	12.1%	6.7%

2020-2024 County Transportation Revenue

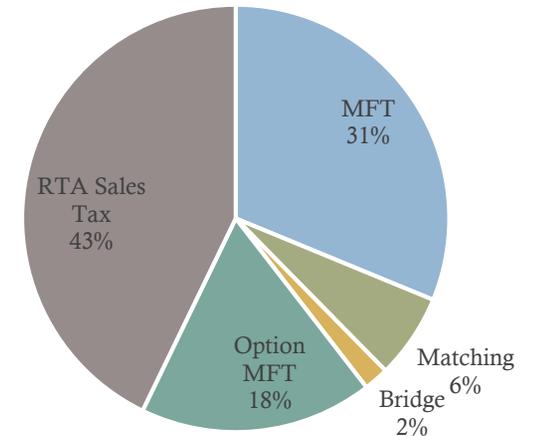


Table 3: Estimated Future Tax Receipts Allocated to Funds; 2020-2024 (in Millions)

Impacts of the FAST Act

The County relies on federal funding for bridge replacement work and for highway widening projects. In December 2015 a five-year Federal Transportation Bill called the **Fixing America's Surface Transportation (FAST) Act** was signed into law providing federal funding for transportation through September of 2020.

The FAST Act increases federal highway funding by 15% and transit funding by 18% over the life of the bill. The bill maintains current rates for the federal motor fuel tax (MFT) and therefore continues to rely heavily on transfers from the General Fund to support additional transportation spending. In addition, the FAST Act further streamlines the environmental review and permitting process to accelerate project approvals.

The bill also creates two new freight programs – the National Highway Freight Program and the Nationally Significant Freight and Highways Program – which will benefit the Chicago region as the hub of freight movement in the United States.

Financial Constraints

Over the next 5 years, a total of **\$192.9 million** is estimated in transportation project revenue from all sources – Federal, State, County, and local (See Figure 11 on next page). Of that amount, \$132.7 million, or 69%, are from County sources. It is anticipated that after a period of slow growth, motor fuel tax receipts will decline over time as more electric vehicles hit the road. On the other hand, County RTA sales tax receipts are estimated to increase 3% annually for the foreseeable future. In the meantime, the Bridge and Matching funds are anticipated to remain flat during the life of this transportation program.

Historically, the transportation system has been funded by user fees, or taxes paid by the users of the system to maintain the system. However, the current program shows that only 49% of all County revenues (\$64.9 million out of \$132.7 million) are generated directly from roadway users through the motor fuel tax. Most of the County's funding for transportation is paid for by both drivers and non-drivers alike, primarily through the RTA Sales Tax but also from two County Property Tax funds (Matching and Bridge Funds).

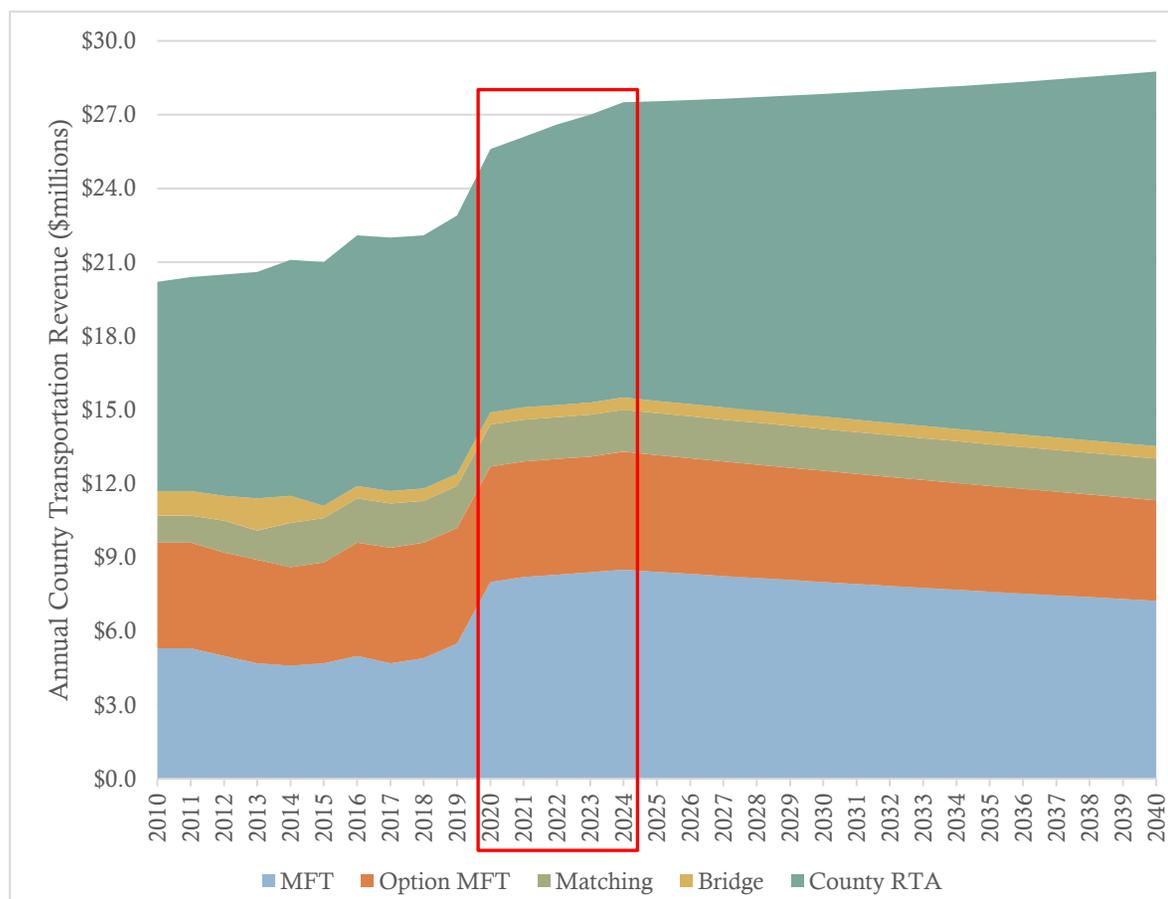


Figure 10: County Transportation Revenue, 2010-2040

Anticipated Expenditures

Over the next 5 years, an estimated \$197.3 million in project work is programmed to be undertaken by the McHenry County Division of Transportation and other agencies on 86 projects and programs (See Table 4).

Figure 11: All Sources of Transportation Revenue; with breakdown showing County Transportation Revenue Sources; FY20-24 (in Millions)

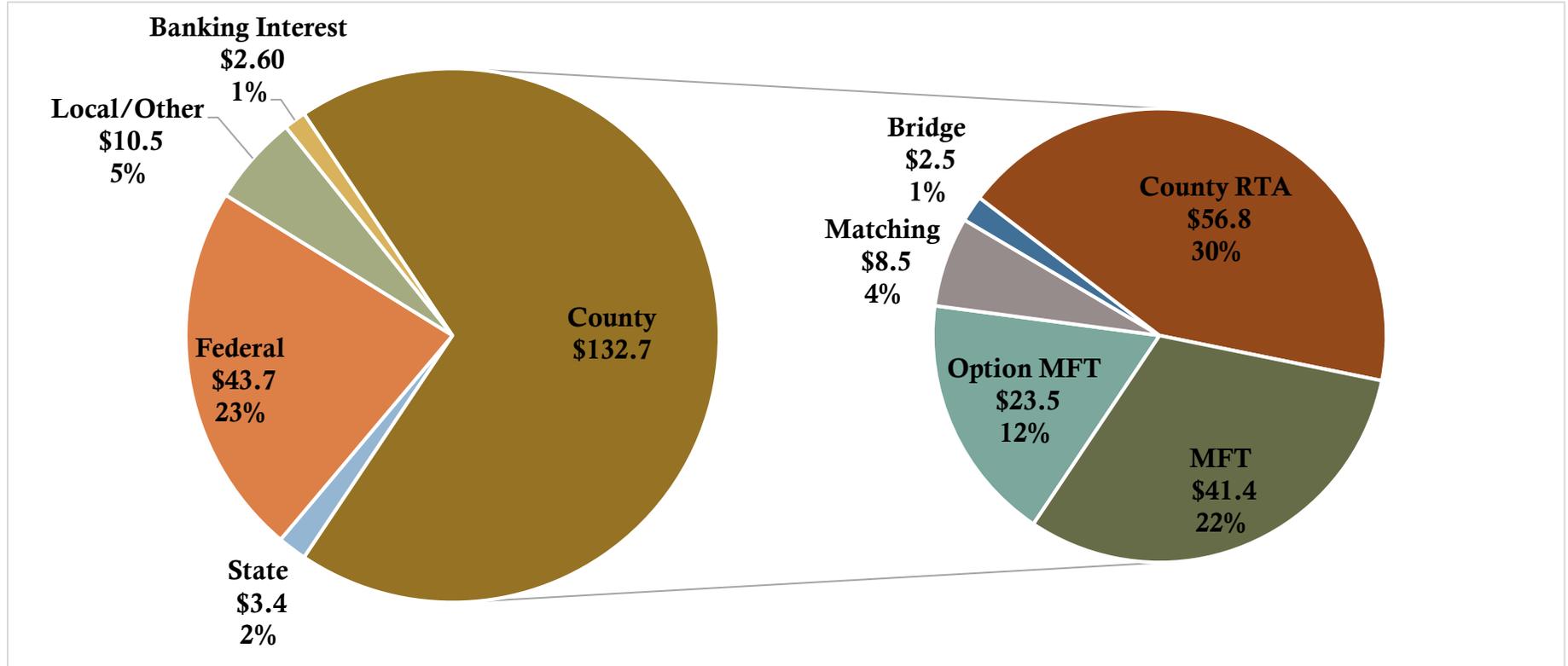


Table 4: Recent Five Year Program Comparison (in Millions)

Programmed Amounts	12-16	13-17	14-18	15-19	16-20	17-22*	18-22	19-23	20-24
Expenditures	\$250.5	\$224.2	\$188.5	\$260.9	\$216.1	\$250.3	\$212.6	\$207.1	\$197.3
Revenues	\$212.0	\$201.2	\$161.0	\$217.8	\$173.0	\$237.2	\$204.1	\$207.1	\$192.9
Expenditures - Revenues	\$38.5	\$23.0	\$28.0	\$43.1	\$43.1	\$13.1	\$8.5	\$0	\$4.4
Expenses/Revenues	1.18	1.11	1.17	1.20	1.25	1.05	1.04	1.00	1.02
Number of Projects/Programs	73	63	64	66	65	71	78	78	86

* 2017-2022 Program consisted of six years instead of five

The 2020-2024 Program includes work in all districts of the County (See Figure 13). The 2020-2024 Program includes \$36.8 million for “Add Lanes” projects, \$26.7 million for “Pavement Preservation” projects, and \$9.1 million for general maintenance activities. (See Table 5).

Table 5: Programmed Expenditures 2020-2024; by Project Type; Sorted by Total County Costs

Project Type	Total County Costs	State	Federal	Local/Other	Total Project Cost
Add Lanes	\$ 36,800,716	\$ -	\$ 9,989,173	\$ -	\$ 46,789,889
Pavement Preservation	\$ 26,665,000	\$ -	\$ -	\$ -	\$ 26,665,000
Metra	\$ 12,000,000	\$ -	\$ -	\$ -	\$ 12,000,000
Maintenance	\$ 9,090,000	\$ -	\$ -	\$ -	\$ 9,090,000
Culverts	\$ 6,015,000	\$ 385,000	\$ 660,000	\$ -	\$ 7,060,000
Operational Improvements	\$ 5,550,000	\$ -	\$ -	\$ 1,550,000	\$ 7,100,000
Interchange	\$ 5,400,000	\$ -	\$ -	\$ -	\$ 5,400,000
Bike/Ped Accommodations	\$ 4,802,000	\$ -	\$ -	\$ 688,000	\$ 5,490,000
NSR	\$ 4,590,000	\$ -	\$ -	\$ -	\$ 4,590,000
Paratransit	\$ 4,485,000	\$ -	\$ 3,860,000	\$ 7,697,553	\$ 16,042,553
Bridge Rehabilitation	\$ 4,099,000	\$ 240,000	\$ 5,416,000	\$ -	\$ 9,755,000
Safety Project	\$ 3,951,456	\$ 255,000	\$ 2,660,944	\$ 15,000	\$ 6,882,400
Bridge Replacement	\$ 3,595,000	\$ -	\$ 10,780,000	\$ -	\$ 14,375,000
Intersection	\$ 2,835,000	\$ 2,192,000	\$ 7,652,000	\$ 20,000	\$ 12,699,000
Signals	\$ 2,345,000	\$ -	\$ -	\$ -	\$ 2,345,000
Other	\$ 1,675,988	\$ -	\$ 446,788	\$ -	\$ 2,122,775
Roadway Realignment	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 1,500,000
Planning	\$ 1,065,000	\$ -	\$ 560,000	\$ -	\$ 1,625,000
ADA	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000
Facility	\$ 710,000	\$ -	\$ -	\$ -	\$ 710,000
Guardrail	\$ 510,000	\$ -	\$ -	\$ -	\$ 510,000
Miscellaneous	\$ 260,000	\$ -	\$ -	\$ -	\$ 260,000
Small Safety Project	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000
Bridge Design	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000
Bridge Rehab or Replacement	\$ 210,000	\$ 320,000	\$ 1,720,000	\$ -	\$ 2,250,000
Bike Share	\$ 30,000	\$ -	\$ -	\$ 520,000	\$ 550,000
Total	\$ 139,684,160	\$ 3,392,000	\$ 43,744,905	\$ 10,490,553	\$ 197,311,617

Project Phases

Throughout this document, readers will notice that each project will undergo several “phases” as it transitions from planning to engineering and finally to construction. These project phases include:

Planning

Transportation Projects typically originate from an adopted Long Range Transportation Plan and are carried into the County’s 5-Year Transportation Program. The current Transportation Plan is the 2040 Long Range Transportation Plan.

Preliminary Engineering/Phase I

An engineering report involving a project’s geometric design, right-of-way requirements, alternatives analysis, and environmental studies. If projects involve federal funds, Phase I engineering concludes upon receipt of design approval from IDOT of the Project Development Report (PDR). This project phase is identified in the Transportation Program as “ENGR1”.

Design Engineering/Phase II

Translates the Phase I engineering report into contract plans, specifications and cost estimates for land acquisition and construction as well as execution of local-state joint project agreements. This project phase is identified in the Transportation Program as “ENGR2”.

ROW/Phase II

The acquisition of necessary rights-of-way and easements. In projects involving federal funds, formal negotiations with property owners may not begin until Phase I engineering approval is given by IDOT. This project phase is identified in the Transportation Program as “ROW”.

Construction/Phase III

Finally the project enters the construction phase, which includes associated construction engineering activities such as surveys, staking, inspections, materials testing, checking shop drawings, supervision of contractors, field adjustments and plan revisions, record keeping and documentation, and payments to contractors. This project phase is identified in the Transportation Program as “CONST” and “CE”.

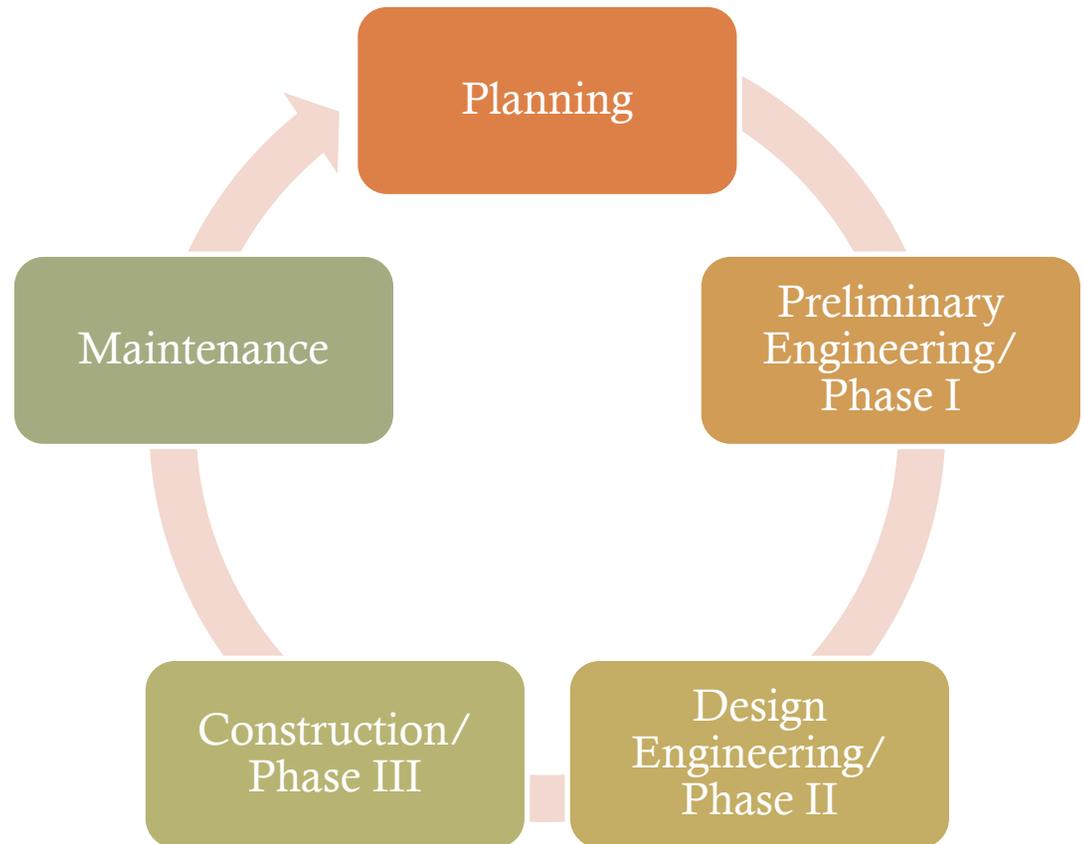


Figure 12: Transportation Project Life Cycle

Illinois Department of Transportation's (IDOT) Highway Improvement Program

The Illinois Department of Transportation (IDOT) releases their [Highway Improvement Program](#) on an annual basis. The most recent IDOT Program covers fiscal years 2019-2024 and identifies projects led by IDOT on State and U.S. routes throughout the State of Illinois. IDOT's 2019-2024 Highway Improvement Program totals \$11.05 billion and includes an FY2019 annual program of \$2.2 billion. This \$11.05 billion in funding is split between improvements to the state highway system (\$7.69 billion) and the local highway system (\$3.36 billion). State projects located within McHenry County can be found [here](#).

FY 2019-2024 Highway Improvement Program MCHENRY COUNTY State Highways

Route/Street	Location	Improvements	Est. Cost	City	MYP Years	
					Past	Current
US 12 MAIN ST	ILL 173 (KENOSHA ST) TO TRYON GROVE RD Miles = 2.00	RESURFACING ADA IMPROVEMENTS RR FLAGGER	\$890,000	RICHMOND	3	2020-2024
Roadway Information						
Miles	Roughness(IRI)	Rutting	AADT	Truck Pct	NHS	
2.00	ACCEPTABLE	0.16	11,900	6.9	Y	
US 12	ILL 31 / TRYON GROVE RD TO LAKE CO LINE Miles = 6.79	RESURFACING	\$2,600,000	RICHMOND SPRING GROVE	1	2020-2024
Roadway Information						
Miles	Roughness(IRI)	Rutting	AADT	Truck Pct	NHS	
6.79	ACCEPTABLE	0.11	12,868	10.7	Y	
US 12 ILL 173	US 12: WILMOT RD TO FOX LAKE RD & KUHN RD TO N SOLON RD; ILL 173: W OF LAKE AVE TO 7TH AVE	MILLED RUMBLE STRIP	\$529,000	RICHMOND	1	2020-2024
US 14 ILL 173 DIVISION ST	AT UP RR & MCCOMB ST <i>PRESERVATION PROJECT</i>	BRIDGE DECK OVERLAY BRIDGE JOINT REPAIR BRIDGE REPAIR	\$2,000,000	HARVARD	2	2020-2024
US 14	BUNKER HILL RD TO ILL 47 Miles = 8.57	RESURFACING	\$2,995,000	WOODSTOCK	2	2020-2024
Roadway Information						
Miles	Roughness(IRI)	Rutting	AADT	Truck Pct	NHS	
8.57	ACCEPTABLE	0.07	8,216	7.2	Y	

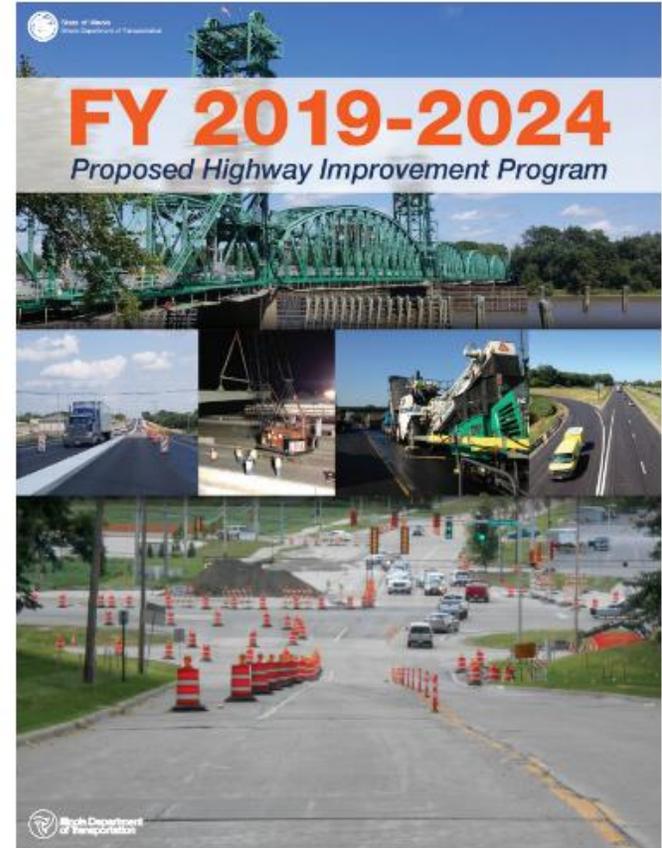
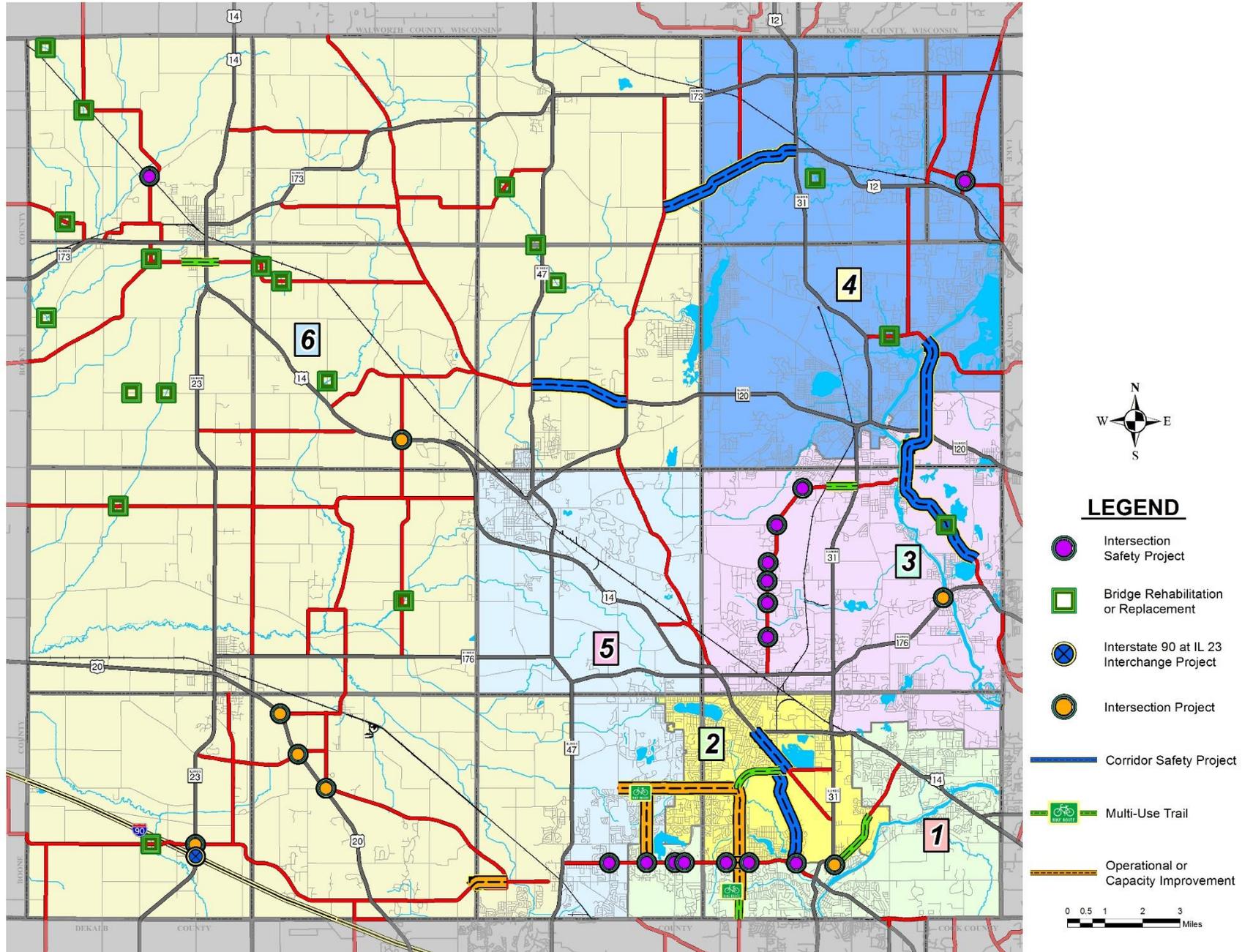


Figure 13: McHenry County 2020-2024 Programmed Projects - Locations Map



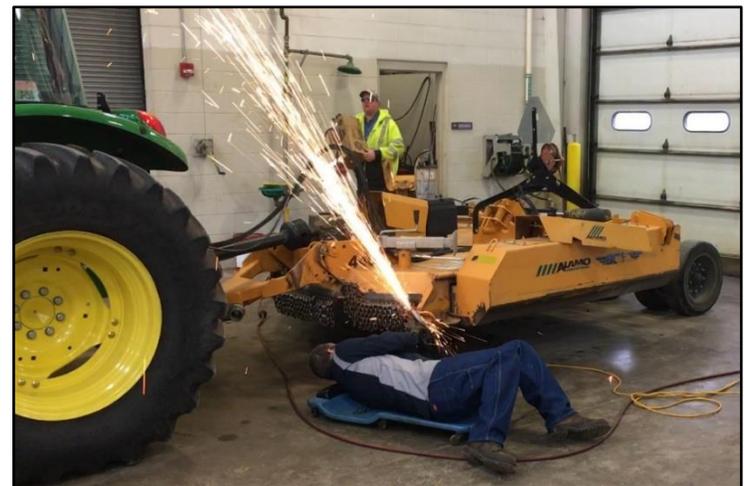
2. County Highway Maintenance Program

The McHenry County Division of Transportation is dedicated to maintaining the County Highways. In order to undertake maintenance activities more efficiently, the Division of Transportation has specialized working groups. The County has a sign shop to make and place needed signs and roadway striping. A vegetation section is dedicated to maintaining vegetation within the highway right-of-way. A mechanic shop maintains the vehicles, specialized equipment, and tools used by the Division of Transportation. The road crew oversees routine and emergency maintenance for roadway, shoulders, and drainage structures on County Highways.

Each year, the County purchases materials to replace drainage culverts, power lights and signals, paint traffic markings, replace and add new signage, and remove snow and ice from the County's Highways. Approximately \$15.2 million in funding will be required over the next five years for these programs (See Table 6).

Table 6: Maintenance Program Summary

County Highway Maintenance Program	2020-2024 Programmed Costs
Artificial and Living Snow Fence Program	\$250,000
Bridge Preventative Maintenance	\$550,000
Culvert Materials	\$125,000
Finish Mowing Contract	\$310,000
Guardrail Maintenance Program	\$510,000
Highway and Traffic Signal Lighting	\$435,000
Miscellaneous Culvert Projects	\$885,000
Patching Materials	\$210,000
Pavement Marking - Thermoplastic	\$1,270,000
Pavement Marking - Paint	\$1,320,000
PROWAG/ADA Maintenance Program	\$1,000,000
Remote Salt Storage and Maintenance Facility	\$200,000
RWIS Lease Contract	\$350,000
Sign Materials	\$510,000
Snow Removal Materials	\$4,160,000
Street Sweeping Contract	\$300,000
Tank Farm	\$500,000
Traffic Signal/Lighting Maintenance	\$1,910,000
Roadside Planting Program	\$260,000
Tree Trimming and Removal Program	\$150,000
TOTAL	\$15,205,000
Annual Average	\$3,041,000



Artificial and Living Snow Fence Program

<i>Title</i>	Artificial and Living Snow Fence Program					<i>Municipality</i>	Various Municipalities				
<i>Scope of Work</i>	Maintenance					<i>Board District</i>	All Board Districts				
<i>Category</i>	Preservation					<i>Total Cost</i>	\$250,000				
<i>Lead Agency</i>	McHenry County DOT					<i>Website</i>	N/A				
<i>Project ID</i>	N/A										
<i>Limits</i>	Various locations throughout McHenry County										
<i>Description</i>	This funding is used to purchase artificial fencing materials or to contract the use of vegetation materials on private property to minimize drifting snow in key areas of the County. Minimizing drifting snow reduces the amount of anti-icing materials used on our roadways, and it saves the County money on labor costs.										
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Various Locations	MAINT	County Option MFT	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	
		<i>Total Maintenance</i>	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	
		Total Programmed		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000	

Total County Cost: \$250,000



Bridge Preventative Maintenance

<i>Title</i>	Bridge Preventative Maintenance				<i>Municipality</i>	Countywide				
<i>Scope of Work</i>	Bridge Rehabilitation				<i>Board District</i>	All Board Districts				
<i>Category</i>	Preservation				<i>Total Cost</i>	\$550,000				
<i>Lead Agency</i>	McHenry County DOT				<i>Website</i>	N/A				
<i>Project ID</i>	N/A									
<i>Limits</i>	Various bridges throughout McHenry County									
<i>Description</i>	This funding is to enable the MCDOT to protect its bridges from early deterioration by applying protective coating materials on concrete decks and wearing surfaces, cleaning and painting of steel bridge beams, cleaning and/or replacement of bridge bearings and repairing damaged bridge joints or damage to bridges that are in need of repair as a result of routine inspections. These items ensure that the useful life of each bridge the County maintains can be as long as possible. The funding is sufficient for 2 to 4 bridges to receive maintenance each year dependent on the activities performed. The specific bridges to be worked on are evaluated each year based on routine bridge inspections. There are currently 54 bridges under County jurisdiction.									
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County Option MFT	\$0	\$100,000	\$105,000	\$110,000	\$115,000	\$120,000	\$125,000	\$550,000
		Total Maintenance	\$0	\$100,000	\$105,000	\$110,000	\$115,000	\$120,000	\$125,000	\$550,000
		Total Programmed		\$100,000	\$105,000	\$110,000	\$115,000	\$120,000		\$550,000

Total County Cost: \$550,000



Culvert Materials

<i>Title</i>	Purchase of Culvert Materials			<i>Municipality</i>	Countywide
<i>Scope of Work</i>	Culverts			<i>Board District</i>	All Board Districts
<i>Category</i>	Preservation			<i>Total Cost</i>	\$125,000
<i>Lead Agency</i>	McHenry County DOT			<i>Website</i>	N/A
<i>Project ID</i>	N/A				
<i>Limits</i>	Various culverts throughout McHenry County				
<i>Description</i>	This funding is for the annual purchase of roadway culverts. Culverts allow for water to flow under the roadway.				

Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County Option MFT	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000
		<i>Total Maintenance</i>	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000
		Total Programmed		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000

Total County Costs: \$125,000



Finish Mowing Contract

<i>Title</i>	Finish Mowing Contract				<i>Municipality</i>	Countywide					
<i>Scope of Work</i>	Maintenance				<i>Board District</i>	All Board Districts					
<i>Category</i>	Preservation				<i>Total Cost</i>	\$310,000					
<i>Lead Agency</i>	McHenry County DOT				<i>Website</i>	N/A					
<i>Project ID</i>	N/A										
<i>Limits</i>	Various locations throughout McHenry County										
<i>Description</i>	In 2019, MCDOT began utilizing private contractors for finish mowing of landscaped medians in the southeastern corner of McHenry County. MCDOT used the McHenry County Municipal Partnership Initiative (MC-MPI) for this contract work.										

Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County Option MFT	\$45,000	\$60,000	\$61,000	\$62,000	\$63,000	\$64,000	\$65,000	\$310,000
		<i>Total Maintenance</i>	\$45,000	\$60,000	\$61,000	\$62,000	\$63,000	\$64,000	\$65,000	\$310,000
		<i>Total Programmed</i>		\$60,000	\$61,000	\$62,000	\$63,000	\$64,000		\$310,000

Total County Cost: \$310,000



Guardrail Maintenance Program

<i>Title</i>	Guardrail Maintenance Program									
<i>Scope of Work</i>	Guardrail					<i>Municipality</i>	Countywide			
<i>Category</i>	Preservation					<i>Board District</i>	All Board Districts			
<i>Lead Agency</i>	McHenry County DOT					<i>Total Cost</i>	\$510,000			
<i>Project ID</i>	N/A					<i>Website</i>	N/A			
<i>Limits</i>	Various locations throughout McHenry County									
<i>Description</i>	This funding is to repair damaged guardrail and upgrade portions of guardrail to meet current standards. Some costs for damaged guardrail are recouped from drivers responsible for the damage if a police report is filed. The County has a total of approximately 14 miles of guardrail in its system. Over the last four years, the County has spent \$293,805 on the guardrail maintenance program, or \$73,451 per year.									
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County Option MFT	\$85,737	\$100,000	\$101,000	\$102,000	\$103,000	\$104,000	\$105,000	\$510,000
		<i>Total Maintenance</i>	\$85,737	\$100,000	\$101,000	\$102,000	\$103,000	\$104,000	\$105,000	\$510,000
		Total Programmed		\$100,000	\$101,000	\$102,000	\$103,000	\$104,000		\$510,000

Total County Cost: \$510,000



Highway & Traffic Signal Lighting

<i>Title</i>	Highway & Traffic Signal Lighting				<i>Municipality</i>	Various Municipalities				
<i>Scope of Work</i>	Signals				<i>Board District</i>	All Board Districts				
<i>Category</i>	Preservation				<i>Total Cost</i>	\$435,000				
<i>Lead Agency</i>	McHenry County DOT				<i>Website</i>	N/A				
<i>Project ID</i>	N/A									
<i>Limits</i>	Various locations throughout McHenry County									
<i>Description</i>	This funding is for the electricity required to power all county roadway lighting and traffic signals. Over the last eight years, the number of street lights on the County roadway system has more than doubled, from 250 street lights in 2009 to 559 in 2017. During that same time period, the number of traffic signals on the County system has increased from 32 to 42 signals, or by over 30%. Over the last four years, the County has spent \$323,030 on highway lighting systems, or \$80,757 per year.									
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County Option MFT	\$93,500	\$85,000	\$86,000	\$87,000	\$88,000	\$89,000	\$90,000	\$435,000
		<i>Total Maintenance</i>	\$93,500	\$85,000	\$86,000	\$87,000	\$88,000	\$89,000	\$90,000	\$435,000
		<i>Total Programmed</i>		\$85,000	\$86,000	\$87,000	\$88,000	\$89,000		\$435,000

Total County Cost: \$435,000



Miscellaneous Culvert Projects

<i>Title</i>	Miscellaneous Culvert Projects					<i>Municipality</i>	Various Municipalities			
<i>Scope of Work</i>	Culverts					<i>Board District</i>	All Board Districts			
<i>Category</i>	Preservation					<i>Total Cost</i>	\$885,000			
<i>Lead Agency</i>	McHenry County DOT					<i>Website</i>	N/A			
<i>Project ID</i>	N/A									
<i>Limits</i>	Various locations throughout McHenry County									
<i>Description</i>	This funding is for the rehabilitation of roadway culverts under various County Highways that Division of Transportation staff are unable to repair due to the scope of the projects.									
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County Option MFT	\$0	\$175,000	\$176,000	\$177,000	\$178,000	\$179,000	\$180,000	\$885,000
		<i>Total Maintenance</i>	\$0	\$175,000	\$176,000	\$177,000	\$178,000	\$179,000	\$180,000	\$885,000
		Total Programmed		\$175,000	\$176,000	\$177,000	\$178,000	\$179,000		\$885,000

Total County Costs: \$885,000



Pothole Patching Materials

<i>Title</i>	Pothole Patching Materials		
<i>Scope of Work</i>	Maintenance	<i>Municipality</i>	Various Municipalities
<i>Category</i>	Preservation	<i>Board District</i>	All Board Districts
<i>Lead Agency</i>	McHenry County DOT	<i>Total Cost</i>	\$210,000
<i>Project ID</i>	N/A	<i>Website</i>	N/A
<i>Limits</i>	Various locations throughout McHenry County		
<i>Description</i>	This funding is for the purchase of pothole patching materials to be applied by MCDOT staff.		

Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County Option MFT	\$0	\$40,000	\$41,000	\$42,000	\$43,000	\$44,000	\$45,000	\$210,000
		<i>Total Maintenance</i>	\$0	\$40,000	\$41,000	\$42,000	\$43,000	\$44,000	\$45,000	\$210,000
		Total Programmed		\$40,000	\$41,000	\$42,000	\$43,000	\$44,000		\$210,000

Total County Costs: \$210,000



Pavement Marking - Thermoplastic

<i>Title</i>	Pavement Marking - Thermoplastic				
<i>Scope of Work</i>	Maintenance	<i>Municipality</i>	Various Municipalities		
<i>Category</i>	Preservation	<i>Board District</i>	All Board Districts		
<i>Lead Agency</i>	McHenry County DOT	<i>Total Cost</i>	\$1,270,000		
<i>Project ID</i>	N/A	<i>Website</i>	N/A		
<i>Limits</i>	Various locations throughout McHenry County				
<i>Description</i>	This funding is for thermoplastic pavement marking contract work.				

Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County MFT	\$190,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	MAINT	County Option MFT	\$0	\$250,000	\$252,000	\$254,000	\$256,000	\$258,000	\$260,000	\$1,270,000
		Total Maintenance	\$190,000	\$250,000	\$252,000	\$254,000	\$256,000	\$258,000	\$260,000	\$1,270,000
		Total Programmed		\$250,000	\$252,000	\$254,000	\$256,000	\$258,000		\$1,270,000

Total County Cost: \$1,270,000



Pavement Marking – Paint

<i>Title</i>	Pavement Marking - Paint Contract	<i>Municipality</i>	Various Municipalities
<i>Scope of Work</i>	Maintenance	<i>Board District</i>	All Board Districts
<i>Category</i>	Preservation	<i>Total Cost</i>	\$1,320,000
<i>Lead Agency</i>	McHenry County DOT	<i>Website</i>	N/A
<i>Project ID</i>	N/A		
<i>Limits</i>	Various locations throughout McHenry County		
<i>Description</i>	This funds contract work for pavement striping work using latex.		

Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County Option MFT	\$230,000	\$260,000	\$262,000	\$264,000	\$266,000	\$268,000	\$270,000	\$1,320,000
		Total Maintenance	\$230,000	\$260,000	\$262,000	\$264,000	\$266,000	\$268,000	\$270,000	\$1,320,000
		Total Programmed		\$260,000	\$262,000	\$264,000	\$266,000	\$268,000		\$1,320,000

Total County Cost: \$1,320,000



PROWAG /Americans with Disabilities Act (ADA) Maintenance Program

Title	Public Right of Way Accessibility Guidelines (PROWAG)/Americans with Disabilities Act (ADA) Maintenance Program									
Scope of Work	ADA	Municipality	Various Municipalities							
Category	Modernization	Board District	All Board Districts							
Lead Agency	McHenry County DOT	Total Cost	\$1,000,000							
Project ID	N/A	Website	https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/ada							
Limits	Various locations throughout McHenry County									
Description	This funding is for updating the accessibility of the County's roadway system in accordance of the American with Disabilities Act (ADA). The County hired a consultant in 2018 to finalize the ADA Transition Plan and work will start on construction in 2020. The County also ensures that its roadways are accessible to people with disabilities during each resurfacing and construction project.									
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
ADA Transition Plan	ENGR	County MFT	\$23,942	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	ENGR	State MFT	\$95,766	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Total Engineering		\$119,708	\$0						
Various Locations	ENGR	County MFT	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
	MAINT	County Option MFT	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
	Total Maintenance		\$0	\$200,000						
Total Programmed			\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000

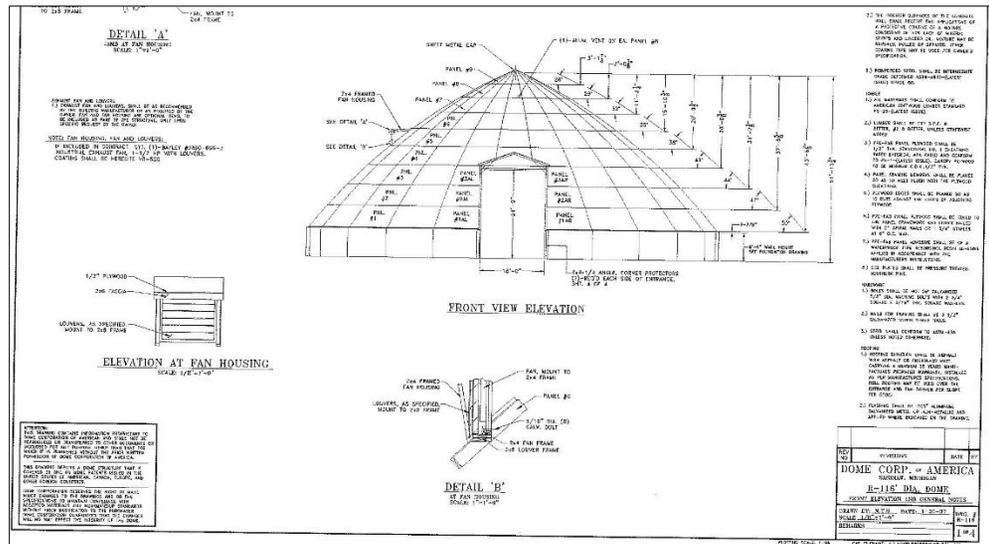
Total County Cost: \$1,000,000



Remote Salt Storage and Maintenance Facility

Title	Remote Salt Storage and Maintenance Facility		Municipality	Village of Algonquin							
Scope of Work	Facility		Board District	District 1							
Category	Modernization		Total Cost	\$200,000							
Lead Agency	McHenry County DOT		Website	N/A							
Project ID	N/A										
Limits	Village of Algonquin										
Description	This funding is for the design and construction of a remote salt storage facility for maintenance operations. The County is collaborating with the Village of Algonquin to find an area to provide additional salt storage capability in order to protect itself and possibly other agencies from dramatic swings in the price paid for salt. This would allow for the ability to take delivery of a year's worth of salt, with the added benefit of having a supply of salt available to draw from in the event that suppliers are unable to deliver salt to the County due to weather or supply chain limitations.										
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Location TBD	ENGR	County Option MFT	\$75,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		County Matching		\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000
		Total Engineering	\$75,000	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000
	CONST	County Option MFT	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000,000	\$0	
		Total Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000,000	\$0	
		Total Programmed		\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000	

Total County Cost: \$200,000



RWIS Lease Contract

Title	Road Weather Information System (RWIS) Lease Contract		
Scope of Work	Maintenance	Municipality	Countywide
Category	Modernization	Board District	All Board Districts
Lead Agency	McHenry County DOT	Total Cost	\$350,000
Project ID	N/A	Website	N/A
Limits	Various Locations		
Description	This funding is to pay for the County's Road Weather Information System (RWIS) lease contract. RWIS measures atmospheric and pavement data to support MCDOT staff in decision making during the entire year but primarily during the winter season.		

Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	CONST	County Option MFT	\$0	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$350,000
		Total Construction	\$0	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$350,000
		Total Programmed		\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$350,000

Total County Cost: \$350,000



Sign Materials

Title	Sign Materials		Municipality	Various Municipalities						
Scope of Work	Maintenance		Board District	All Board Districts						
Category	Preservation		Total Cost	\$510,000						
Lead Agency	McHenry County DOT		Website	N/A						
Project ID	N/A									
Limits	Various locations throughout McHenry County									
Description	This funding is for the annual purchase of sign materials. These materials include sign blanks, reflective materials, and posts. The Division of Transportation has the capability to manufacture and install many of the County's signs in-house. Upgrades to the County's signage over the last ten years has greatly reduced future ongoing maintenance needs. The County currently maintains over 10,300 signs.									
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County Option MFT	\$65,000	\$100,000	\$101,000	\$102,000	\$103,000	\$104,000	\$105,000	\$510,000
		Total Maintenance	\$65,000	\$100,000	\$101,000	\$102,000	\$103,000	\$104,000	\$105,000	\$510,000
		Total Programmed		\$100,000	\$101,000	\$102,000	\$103,000	\$104,000		\$510,000

Total County Cost: \$510,000



Snow and Ice Control Materials

<i>Title</i>	Snow and Ice Control Materials					<i>Municipality</i>	Various Municipalities				
<i>Scope of Work</i>	Maintenance					<i>Board District</i>	All Board Districts				
<i>Category</i>	Preservation					<i>Total Cost</i>	\$4,160,000				
<i>Lead Agency</i>	McHenry County DOT					<i>Website</i>	N/A				
<i>Project ID</i>	N/A										
<i>Limits</i>	All County Roadways										
<i>Description</i>	This funding is for the annual purchase of snow and ice control materials. Over the last ten years, the Division of Transportation has averaged \$900,000 per year in snow and ice control materials purchases. These purchases include enhanced salt, calcium chloride, and agricultural by-products such as beet juice. On average, the MCDOT spreads between 100,000 and 200,000 gallons of liquid de-icing material every year.										
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Various Locations	MAINT	County Option MFT	\$1,122,726	\$816,000	\$824,000	\$832,000	\$840,000	\$848,000	\$856,000	\$4,160,000	
		Total Maintenance	\$1,122,726	\$816,000	\$824,000	\$832,000	\$840,000	\$848,000	\$856,000	\$4,160,000	
		Total Programmed		\$816,000	\$824,000	\$832,000	\$840,000	\$848,000		\$4,160,000	

Total County Cost: \$4,160,000



Street Sweeping Contract

<i>Title</i>	Street Sweeping Contract					<i>Municipality</i>	Various Municipalities				
<i>Scope of Work</i>	Maintenance					<i>Board District</i>	All Board Districts				
<i>Category</i>	Preservation					<i>Total Cost</i>	\$300,000				
<i>Lead Agency</i>	McHenry County DOT					<i>Website</i>	N/A				
<i>Project ID</i>	N/A										
<i>Limits</i>	All County Roadways										
<i>Description</i>	In 2019, MCDOT began contracting out street sweeping services through the McHenry County Municipal Partnership Initiative (MC-MPI).										
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Various Locations	MAINT	County Option MFT	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$300,000	
<i>Total Maintenance</i>			\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$300,000	
<i>Total Programmed</i>				\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000	\$300,000	

Total County Costs: \$300,000

Tank Farm

<i>Title</i>	Winter Operations Tank Farm Replacement					<i>Municipality</i>	Various Municipalities				
<i>Scope of Work</i>	Facility					<i>Board District</i>	All Board Districts				
<i>Category</i>	Preservation					<i>Total Cost</i>	\$500,000				
<i>Lead Agency</i>	McHenry County DOT					<i>Website</i>	N/A				
<i>Project ID</i>	N/A										
<i>Limits</i>	All County Roadways										
<i>Description</i>	This funding will be used to replace ten tanks from MCDOT's tank farm, which houses liquids used during winter operations. Each year, the County uses an average of between 100,000 and 200,000 gallons of liquid material which aids in the removal of snow and ice for public safety. Using liquids is cost effective and is better for the environment.										
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
MCDOT	MAINT	County Option MFT	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000	
<i>Total Maintenance</i>			\$0	\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000	
<i>Total Programmed</i>				\$500,000	\$0	\$0	\$0	\$0	\$0	\$500,000	

Total County Costs: \$500,000

Traffic Signal/Lighting Maintenance

<i>Title</i>	Traffic Signal/Lighting Maintenance										
<i>Scope of Work</i>	Signals					<i>Municipality</i>	Various Municipalities				
<i>Category</i>	Modernization					<i>Board District</i>	All Board Districts				
<i>Lead Agency</i>	McHenry County DOT					<i>Total Cost</i>	\$1,910,000				
<i>Project ID</i>	N/A					<i>Website</i>	N/A				
<i>Limits</i>	Various County Roadways										
<i>Description</i>	This funding is for a 24-hour repair, routine maintenance and replacement contract to maintain traffic signals and lighting systems on County Roadways. MCDOT staff maintains 42 traffic signals, 23 roadway lighting systems and 41 roadway flasher systems throughout the County under its jurisdiction. Due to the number of systems and the required 24-hour response time needed for adequate service, the County contracts with a private firm to maintain these systems on a daily, on-call, as-needed basis.										
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Various Locations	MAINT	County Option MFT	\$364,140	\$370,000	\$376,000	\$382,000	\$388,000	\$394,000	\$400,000	\$1,910,000	
		Total Maintenance	\$364,140	\$370,000	\$376,000	\$382,000	\$388,000	\$394,000	\$400,000	\$1,910,000	
		Total Programmed		\$370,000	\$376,000	\$382,000	\$388,000	\$394,000		\$1,910,000	

Total County Cost: \$1,910,000

County Highway Roadside Planting Program

<i>Title</i>	County Highway Roadside Planting Program										
<i>Scope of Work</i>	Maintenance					<i>Municipality</i>	Various Municipalities				
<i>Category</i>	Preservation					<i>Board District</i>	All Board Districts				
<i>Lead Agency</i>	McHenry County DOT					<i>Total Cost</i>	\$260,000				
<i>Project ID</i>	N/A					<i>Website</i>	N/A				
<i>Limits</i>	Various County Roadways										
<i>Description</i>	This funding is for the purchase and planting of trees and native plants along County roadways. In urban environments, street trees and native vegetation reduce stormwater runoff and harmful air pollutants, lower the surrounding air temperature, and provide shade and safety for pedestrians. In addition, street trees have been shown to add value to adjacent homes and businesses, and help to maintain traffic speeds at appropriate levels.										
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Various Locations	MAINT	County Option MFT	\$0	\$50,000	\$51,000	\$52,000	\$53,000	\$54,000	\$55,000	\$260,000	
		Total Maintenance	\$0	\$50,000	\$51,000	\$52,000	\$53,000	\$54,000	\$55,000	\$260,000	
		Total Programmed		\$50,000	\$51,000	\$52,000	\$53,000	\$54,000		\$260,000	

Total County Cost: \$260,000

Tree Trimming and Removal Program

<i>Title</i>	Tree Trimming and Removal Program		<i>Municipality</i>	Various Municipalities						
<i>Scope of Work</i>	Maintenance		<i>Board District</i>	All Board Districts						
<i>Category</i>	Preservation		<i>Total Cost</i>	\$150,000						
<i>Lead Agency</i>	McHenry County DOT		<i>Website</i>	N/A						
<i>Project ID</i>	N/A									
<i>Limits</i>	Various County Roadways									
<i>Description</i>	This funding is for a contract for large and emergency tree trimming and removal that MCDOT staff are unable to address in house.									

Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	MAINT	County Option MFT	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$150,000
		<i>Total Maintenance</i>	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$150,000
		<i>Total Programmed</i>		\$30,000	\$30,000	\$30,000	\$30,000	\$30,000		\$150,000

Total County Cost: \$150,000



3. County Highway Pavement Preservation Program

The management of the County’s pavement includes constant monitoring and improvements such as resurfacing, applying rejuvenator, crack sealing and micro-surfacing to extend the useable life of the County Highways. The premise is to select the right project at the right time with the right treatment. Despite preventative maintenance, a roadway will eventually need to be completely reconstructed. Such improvements are necessary to maintain the investment the public has made in the County Highway System. Neglecting pavement management needs can result in safety hazards, serious deterioration of the infrastructure, damage to vehicles traveling on the driving surface, and increased future improvement costs. Like general maintenance activities, these pavement preservation activities are considered a first priority for funding. Between 2020 and 2024, \$26.7 million in pavement preservation projects are programmed.

County Highway Pavement Management Program	2020-2024 Programmed Costs	
Ackman Road Resurfacing & ADA	\$	1,400,000
Algonquin Road Resurfacing & ADA	\$	1,700,000
Condition Evaluation/GIS Pavement Management Updates	\$	405,000
County Pavement Preservation & Resurfacing Program	\$	22,500,000
Materials Testing	\$	660,000
TOTAL	\$	26,665,000
Annual Average	\$	5,333,000

Table 7: 2020-2024 Pavement Preservation Program Summary



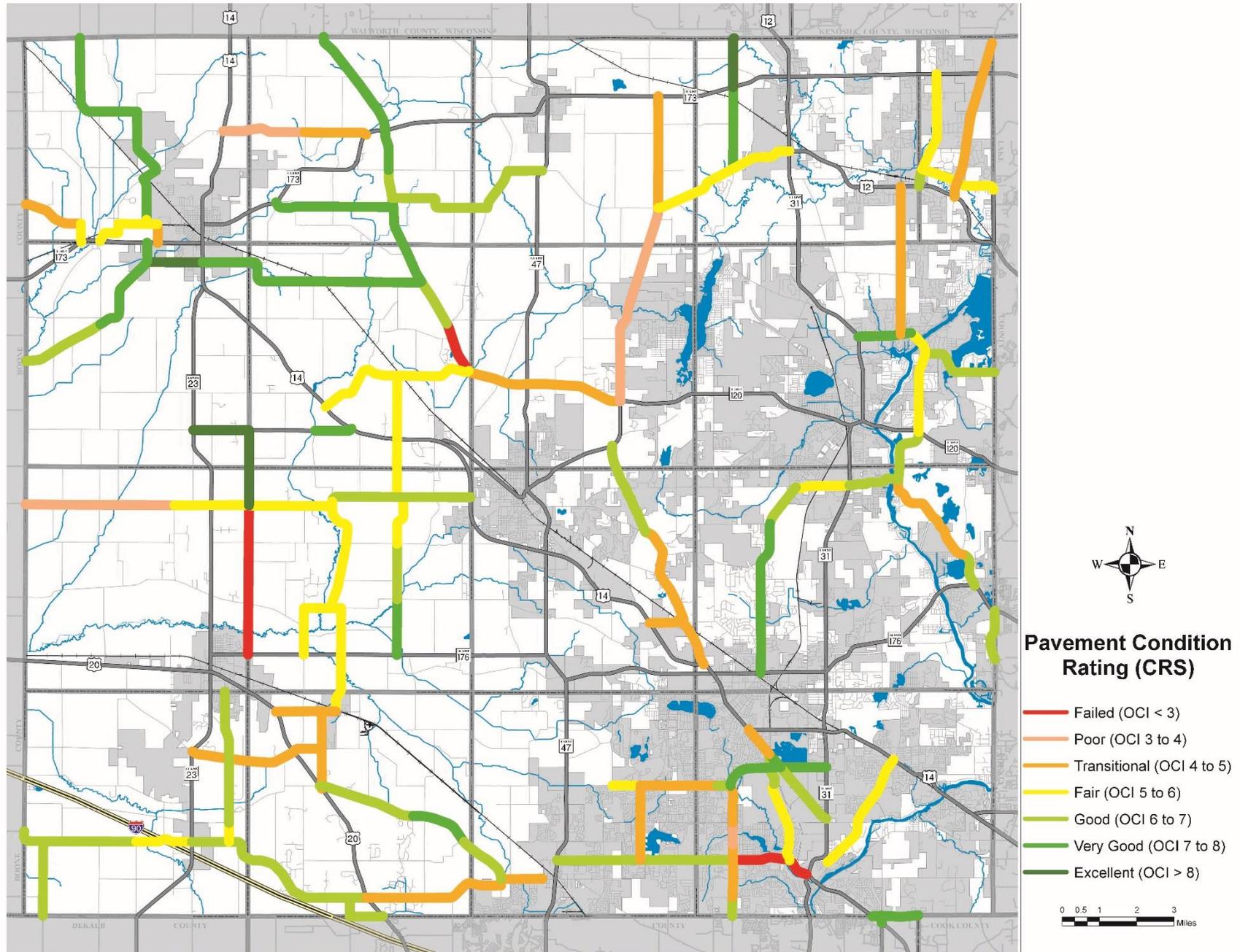


Figure 14: Pavement Condition of County Roadways Last Measured in 2015

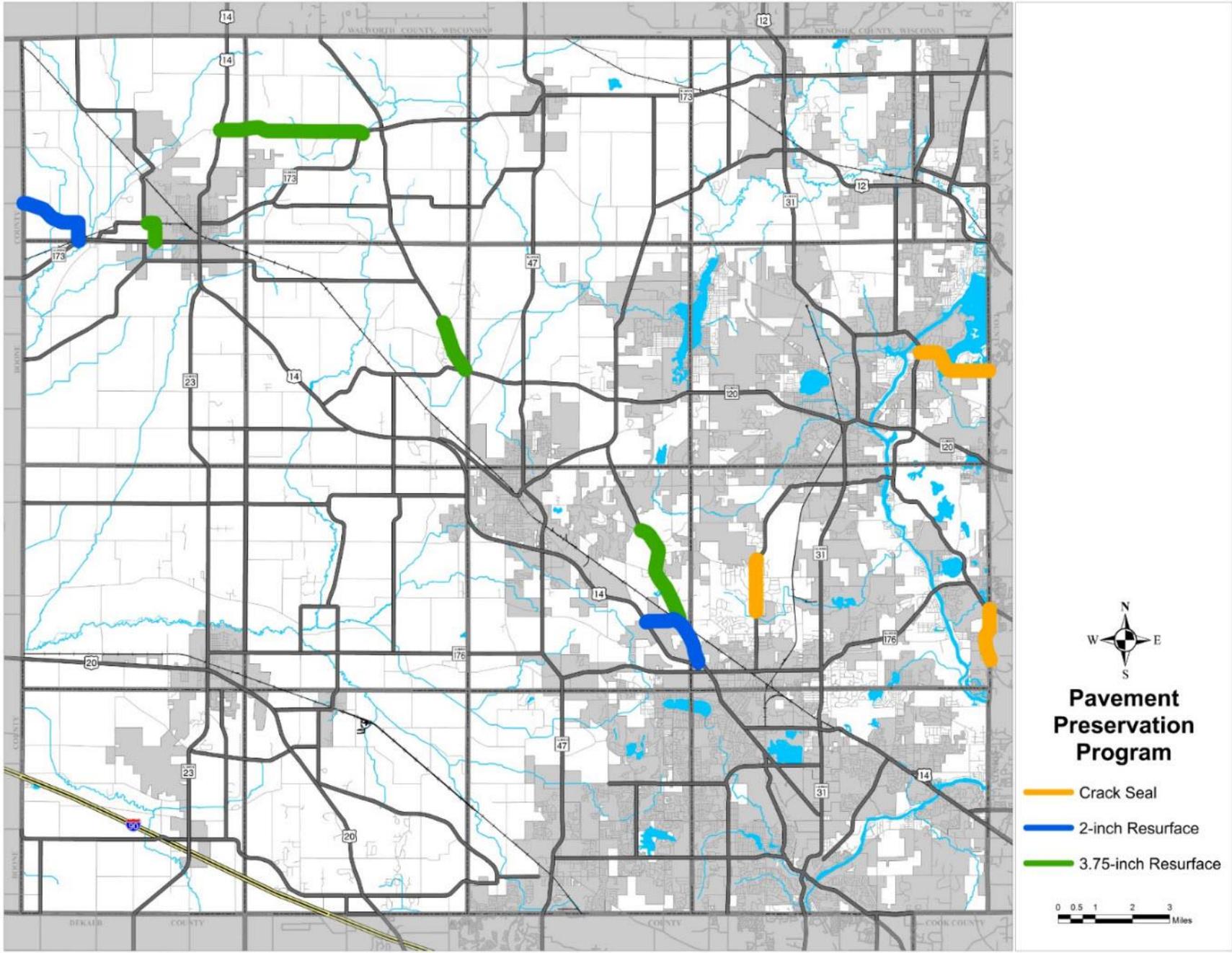


Figure 15: 2018 Pavement Preservation Program

Ackman Road Resurfacing & ADA

<i>Title</i>	Ackman Road Resurfacing and ADA		
<i>Scope of Work</i>	Pavement Preservation	<i>Municipality</i>	Lake in the Hills, Lakewood, Crystal Lake
<i>Category</i>	Preservation	<i>Board District</i>	District 2 & District 5
<i>Lead Agency</i>	McHenry County DOT	<i>Total Cost</i>	\$1,400,000
<i>Project ID</i>	N/A	<i>Website</i>	N/A
<i>Limits</i>	Ackman Road, from Haligus Road to Randall Road		
<i>Description</i>	This major resurfacing project will include ADA improvements		

Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Ackman Road	CONST	County MFT	\$0	\$0	\$0	\$0	\$700,000	\$0	\$0	\$700,000
		RTA Sales Tax	\$0	\$0	\$0	\$0	\$700,000	\$0	\$0	\$700,000
		Total Construction	\$0	\$0	\$0	\$0	\$1,400,000	\$0	\$0	\$1,400,000
		Total Programmed		\$0	\$0	\$0	\$1,400,000	\$0		\$1,400,000

Total County Cost: \$1,400,000



Algonquin Road Resurfacing & ADA

Title	Algonquin Road Resurfacing and ADA				Municipality	Lake in the Hills and Algonquin					
Scope of Work	Pavement Preservation				Board District	District 1, District 2					
Category	Preservation				Total Cost	\$1,700,000					
Lead Agency	McHenry County DOT				Website	N/A					
Project ID	N/A										
Limits	Algonquin Road from Crystal Lake Road to Illinois Route 31										
Description	This major resurfacing project is outside the project limits of the Randall Road project. This resurfacing project will address the need to preserve the pavement of Algonquin Road and is anticipated to be constructed immediately following the Randall Road widening project. This funding is for resurfacing, barrier warrant upgrades, curb repairs, ADA improvements, and the addition of bicycle and pedestrian accommodations.										
Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Algonquin Road	CONST	County Option MFT	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$0	\$1,000,000	
		RTA Sales Tax	\$0	\$0	\$0	\$700,000	\$0	\$0	\$0	\$700,000	
		Total Construction	\$0	\$0	\$0	\$1,700,000	\$0	\$0	\$0	\$1,700,000	
		Total Programmed		\$0	\$0	\$1,700,000	\$0	\$0		\$1,700,000	

Total County Cost: \$1,700,000



Condition Evaluation/GIS Pavement Management Updates

Title	Condition Evaluation/GIS Pavement Management Updates										
Scope of Work	Pavement Preservation					Municipality	Various Municipalities				
Category	Preservation					Board District	All Board Districts				
Lead Agency	McHenry County DOT					Total Cost	\$405,000				
Project ID	N/A					Website	N/A				
Limits	Various County Roadways										
Description	This funding is for the evaluation of pavement conditions of County roadways and data collection needed for the GIS Pavement Management updates. This provides data to help determine which roads need what pavement management activity and when.										

Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	ENGR	RTA Sales Tax	\$0	\$130,000	\$0	\$135,000	\$0	\$140,000	\$0	\$405,000
		Total Engineering	\$0	\$130,000	\$0	\$135,000	\$0	\$140,000	\$0	\$405,000
		Total Programmed		\$130,000	\$0	\$135,000	\$0	\$140,000		\$405,000

Total County Cost: \$405,000



MCDOT Pavement Segment ID:
Cartegraph flexTECHNOLOGY

Features

Pavement Classification: AC Asphalt Concrete

Functional Classification: Other Principal Arterial

Centerline Length: 2648 ft

Average Width: 64 ft

Pavement Area: 169472 ft²

Today's OCI (Predicted): 6.51

Location

Route:

Route Number:

Route Direction:

Travel Lanes:

Attachments

<Images>\2015 IMS Survey\pass1V...

Details

Pavement History | Inspection Activity | Traffic Counts | Suggested Maintenance

Constructed: Resurfaced:

When Started	When Ended	Activity	Milling Depth	Surface Course	Surface Thickness	Bin Co
09/01/1982	09/01/1982	AC - Surface Overlay < 2"	0 in	Class I	1 in	Class
09/01/1996	09/01/1996	AC - Re-construction Full Depth	0 in	Class I	1.5 in	Class
09/01/2008	09/01/2008	AC - Milling & Surface Overlay > 2"				

County Pavement Preservation

Title	County Pavement Preservation & Resurfacing Program					Municipality	Various Municipalities				
Scope of Work	Pavement Preservation					Board District	All Board Districts				
Category	Preservation					Total Cost	\$22,500,000				
Lead Agency	McHenry County DOT					Website	mchenrycountygis.org/ConstructionProjects/#/MapView				
Project ID	N/A										
Limits	Various County Roadways										
Description	The right road with the right treatment at the right time. This funding is allocated each year to preserve and resurface approximately 5% of County Highway system lane miles. Pavement preservation techniques include rejuvenator application (which slows down the oxidation process and reduces pavement surface deterioration), crack sealing (which protects the pavement structure by limiting moisture intrusion into the roadway base), thin lift treatments (which further extend the life the riding surface) and mill and resurface. Each of these techniques are implemented at different times over the life of a resurfaced pavement with the goal of preserving pavement integrity and the useful life of the highway.										
Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Various Locations	CONST	County MFT	\$2,515,000	\$4,200,000	\$4,200,000	\$4,200,000	\$4,200,000	\$4,200,000	\$4,200,000	\$21,000,000	
Various Locations	CONST	RTA Sales Tax	\$1,500,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000	
		Total Construction	\$4,015,000	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000	\$22,500,000	
		Total Programmed		\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000	\$4,500,000	\$22,500,000	

Total County Cost: \$22,500,000



Figure 16: 2019/2020 Pavement Preservation Program

Treatment	2019	2020
Crack Seal		Franklinville Road - Garden Valley Road to Collins Road Johnsburg Road - IL31 to Chapel Hill Road Walkup Road – IL176 to Live Oak Road Crystal Lake Road – Crystal Springs Road to Bull Valley Road
Mill & Resurface (2")	Greenwood Road – Charles Road to IL173 Deep Cut Road – US14 to Nelson Road Nelson Road – Deep Cut Road to Charles Road	
Thin Lift Overlay (3/4")	Tryon Grove Road - Greenwood Road to US12	
Mill & Resurface (3.75")	Deerpass Road - IL176 to River Road	Kishwaukee Valley Road – County Line Road to IL23 Harmony Road – U.S. 20 to Marengo Road Main Street (Huntley) – Marengo Road to Lois Lane Chapel Hill Road – Salem Avenue to Linden Avenue Bull Valley Road – Crystal Lake Road to UP Railroad River Road – Charles Miller Road to Dowell Road

Materials Testing

<i>Title</i>	Materials Testing		<i>Municipality</i>	Various Municipalities						
<i>Scope of Work</i>	Pavement Preservation		<i>Board District</i>	All Board Districts						
<i>Category</i>	Preservation		<i>Total Cost</i>	\$660,000						
<i>Lead Agency</i>	McHenry County DOT		<i>Website</i>	N/A						
<i>Project ID</i>	N/A									
<i>Limits</i>	Various County Roadways									
<i>Description</i>	This funding is for the required engineering services to test pavement materials in accordance with IDOT requirements and investigate highway subsurface for all County paving and construction projects.									

Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	CONST	RTA Sales Tax	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000	\$660,000
		<i>Total Construction</i>	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000	\$132,000	\$660,000
		<i>Total Programmed</i>		\$132,000	\$132,000	\$132,000	\$132,000	\$132,000		\$660,000

Total County Cost: \$660,000



4. County and Township Bridge Program

In conjunction with biennial bridge inspections, the Division of Transportation applies a pre-emptive approach to identify bridge structures, drainage ways, and storm sewer systems requiring reconstruction and/or having the ability to be rehabilitated before further deterioration can occur. This approach allows for more cost-effective measures to protect the County's investment in bridge structures. Between 2020 and 2024, \$32.1 million in bridge work – \$19.3 million for County bridges, and \$12.8 million for Township bridges – is programmed to replace, rehabilitate, and repair 21 bridges and culverts. Of that amount, approximately \$12.6 million will come from County funding sources.

In general, bridge replacement projects are eligible for federal bridge funds when the structure sufficiency rating is under 50 on a 100 point scale. Funding is available for rehabilitation if the structure has a sufficiency rating under 80. The federal funds will pay for up to 80% of the project cost and requires a minimum 20% local match. Township bridge work is eligible for limited State Township Bridge Program (TBP) funds, which is currently \$162,000 per year. The County typically funds the local share of engineering and construction work for bridges with the County Bridge and Matching funds. Since many bridges were built between 1930 and 1970 across the region, there is increasing competition for limited federal bridge and TBP funds to rehabilitate or replace deteriorating bridge infrastructure to prevent their potential closure.

County Bridge Program Summary	Estimated Construction Year	Daily Traffic	2020-2024 Programmed Costs
Bridge Inspections	N/A	N/A	\$ 1,050,000
Design Upon Request Bridge Program	N/A	N/A	\$ 250,000
Flat Iron Road Bridge	2024	1,500	\$ 1,750,000
Harmony Road Bridge	2024	1,200	\$ 2,750,000
Hunter Road Bridge	2023	1,350	\$ 1,220,000
Johnsburg Road Bridge	2024	11,000	\$ 2,450,000
Johnson Road Bridge	2023	325	\$ 1,700,000
Kishwaukee Valley Road Culvert	2020	3,300	\$ 1,050,000
McGuire Road Bridge	2026	2,500	\$ 225,000
McGuire Road Culvert	2026	2,500	\$ 190,000
Millstream Road Bridges	2023	1,600	\$ 2,800,000
River Road Culvert	2020	8,550	\$ 3,885,000
TOTAL			\$ 19,320,000
Annual Average			\$ 3,864,000
Township Bridge Program Summary			
Township Bridge Program Summary	Estimated Construction Year	Daily Traffic	2020-2024 Programmed Costs
Allendale Road Township Bridge	2024	425	\$ 2,250,000
Bunker Hill Road Township Bridge	2024	100	\$ 1,550,000
Bunker Hill Road Township Bridge	2025	100	\$ 475,000
Paulson Road Township Bridge	2024	225	\$ 1,950,000
Perkins Road (Seneca) Township Culvert	2028	625	\$ 225,000
Perkins Road (Chemung) Township Culvert	2025	125	\$ 475,000
Streit Road Township Culvert	2028	300	\$ 225,000
Thayer Road Township Bridge	2023	575	\$ 1,750,000
Township Bridge Rehabilitation Assistance	N/A	N/A	\$ 810,000
West Solon Road Township Bridge	2023	700	\$ 1,850,000
White Oaks Road Township Bridge	2023	50	\$ 1,250,000
TOTAL			\$ 12,810,000
Annual Average			\$ 2,562,000

Allendale Road Bridge

Title	Allendale Road Township Bridge		
Scope of Work	Bridge Replacement	Municipality	Unincorporated Greenwood Township
Category	Preservation	Board District	District 6
Lead Agency	McHenry County DOT	Total Cost	\$2,250,000
Project ID	SN 056-3126	Website	https://www.mchenrycountyil.gov/country-government/departments-j-z/transportation/future-construction/allendale-road-bridge
Location	0.4 miles east of IL 47, south of Hebron		
Description	This funding is for the rehabilitation or replacement of a Township bridge built in 1978 over the Nippersink Creek in Greenwood Township. It had a sufficiency rating of 57.2/100 in 2018. Construction is anticipated in 2024.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Allendale Road Bridge	ENGR1	County Bridge Fund	\$40,000							\$0
	ENGR1	Federal STP Bridge	\$160,000							\$0
	Total Engineering 1		\$200,000							
	ENGR2	County Matching Fund				\$30,000				\$30,000
	ENGR2	Federal STP Bridge				\$120,000				\$120,000
	Total Engineering 2					\$150,000				\$150,000
	ROW	County Bridge Fund				\$100,000				\$100,000
	Total Right of Way					\$100,000				\$100,000
	CONST	County Matching Fund						\$80,000		\$80,000
	CONST	State TBP Funds						\$320,000		\$320,000
	CONST	Federal STP Bridge						\$1,600,000		\$1,600,000
	Total Construction								\$2,000,000	
Total Programmed				\$0	\$0	\$250,000	\$0	\$2,000,000		\$2,250,000

Total County Cost: \$210,000

Total Federal Share: \$1,720,000

State TBP Share: \$320,000



Bridge Inspections

<i>Title</i>	Bridge Inspections					<i>Municipality</i>	Various Municipalities				
<i>Scope of Work</i>	Bridge Rehabilitation					<i>Board District</i>	All Board Districts				
<i>Category</i>	Preservation					<i>Total Cost</i>	\$1,050,000				
<i>Lead Agency</i>	McHenry County DOT					<i>Website</i>	N/A				
<i>Project ID</i>	N/A										
<i>Location</i>	Various Bridges										
<i>Description</i>	This funding is for the required biennial inspections of County and Township structures and special inspection such as scour analysis, underwater inspections, or emergency inspections.										

Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Bridges	ENGR	County Bridge Fund	\$0	\$350,000	\$0	\$350,000	\$0	\$350,000	\$0	\$1,050,000
		<i>Total Engineering</i>	\$0	\$350,000	\$0	\$350,000	\$0	\$350,000	\$0	\$1,050,000
		<i>Total Programmed</i>		\$350,000	\$0	\$350,000	\$0	\$350,000		\$1,050,000

Total County Cost: \$1,050,000



Bunker Hill Road Township Bridge (West)

Title	Bunker Hill Road Township Bridge (West)		
Scope of Work	Bridge Replacement	Municipality	Unincorporated Dunham Township
Category	Preservation	Board District	District 6
Lead Agency	McHenry County DOT	Total Cost	\$1,550,000
Project ID	SN 056-3107	Website	https://www.mchenrycountyil.gov/county-government/departments-i-z/transportation/future-construction/bunker-hill-road
Location	1.7 miles west of IL 23, south of Harvard		
Description	This funding is for the replacement of a Township bridge built in 1970 over a drainage ditch in Dunham Township. The existing bridge had a sufficiency rating of 50.4/100 in 2018. Construction is anticipated in 2024.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Bunker Hill Road Bridge	ENGR1	County Bridge Fund		\$60,000						\$60,000
	ENGR1	Federal STP Bridge		\$240,000						\$240,000
		Total Engineering 1		\$300,000						\$300,000
	ENGR2	County Matching				\$30,000				\$30,000
	ENGR2	Federal STP Bridge				\$120,000				\$120,000
		Total Engineering 2				\$150,000				\$150,000
	ROW	County Bridge Fund				\$100,000				\$100,000
		Total Right of Way				\$100,000				\$100,000
	CONST	County Matching						\$200,000		\$200,000
	CONST	Federal STP Bridge						\$800,000		\$800,000
		Total Construction						\$1,000,000		\$1,000,000
		Total Programmed		\$300,000	\$0	\$250,000	\$0	\$1,000,000		\$1,550,000

Total County Cost: \$390,000

Total Federal Share: \$1,160,000



Bunker Hill Road Township Bridge (East)

Title	Bunker Hill Road Township Bridge (East)		Municipality	Unincorporated Dunham Township						
Scope of Work	Bridge Replacement		Board District	District 6						
Category	Preservation		Total Cost	\$475,000						
Lead Agency	McHenry County DOT		https://www.mchenrycountyil.gov/county-government/departments-i-z/transportation/future-construction/bunker-hill-east							
Project ID	SN 056-3070		Website	https://www.mchenrycountyil.gov/county-government/departments-i-z/transportation/future-construction/bunker-hill-east						
Location	0.8 miles west of IL 23, south of Harvard		Daily Traffic	100 (2017)						
Description	This funding is for the replacement of a Township bridge built in 1962 over the Rush Creek in Dunham Township. The existing bridge had a sufficiency rating of 69.9/100 in 2018. Construction is anticipated in 2025.									
Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Bunker Hill Road Bridge	ENGR1	County Matching Fund			\$45,000					\$45,000
	ENGR1	Federal STP Bridge			\$180,000					\$180,000
		Total Engineering 1			\$225,000					\$225,000
	ENGR2	County Matching Fund					\$30,000			\$30,000
	ENGR2	Federal STP Bridge					\$120,000			\$120,000
		Total Engineering 2					\$150,000			\$150,000
	ROW	County Bridge Fund					\$100,000			\$100,000
		Total Engineering 2					\$100,000			\$100,000
	CONST	County Bridge Fund							\$200,000	\$0
	CONST	Federal STP Bridge							\$800,000	\$0
		Total Construction							\$1,000,000	\$0
		Total Programmed		\$0	\$225,000	\$0	\$250,000	\$0		\$475,000

Total County Cost: \$175,000

Total Federal Share: \$300,000



Design Upon Request Bridge Program

Title	Design Upon Request Bridge Program		
Scope of Work	Bridge Design	Municipality	County-wide
Category	Preservation	Board District	All Board Districts
Lead Agency	McHenry County DOT	Total Cost	\$250,000
Project ID	N/A	Website	N/A
Location	N/A		
Description	This funding will be used to contract with an engineering firm to assist MCDOT staff with design for County and/or Township bridges on an as-needed basis.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
	ENGR1	County Bridge Fund		\$250,000						\$250,000
		<i>Total Engineering 1</i>		\$250,000						\$250,000
		Total Programmed		\$250,000	\$0	\$0	\$0	\$0		\$250,000

Total County Cost: \$250,000

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED HIGHWAY PLANS
COUNTY HIGHWAY 47 (DEERPASS ROAD)
OVER THE KISHWAUKEE RIVER AND
NORTH BRANCH OF THE KISHWAUKEE RIVER
SECTION 10-00377-00-BR
PROJECT BRS-0111(060)
BRIDGE REPLACEMENT
MCHENRY COUNTY
JOB NO. C-91-747-10

TRAFFIC DATA
 DESIGN SPEED = 60 MPH
 POSTED SPEED = 55 MPH
 FUNCTIONAL CLASSIFICATION = MINOR COLLECTOR
 EXISTING ADT = 1993 (2015)
 DESIGN ADT = 3000 (2040)

PROPOSED LEGEND
 ① METAL ARCHWAY PAVEMENT FULL-DEPTH, 1" 1/2"
 ② HOT-MIX ASPHALT SURFACE COURSE, 1" 1/2" 1/2"
 ③ HOT-MIX ASPHALT BINDER COURSE, 2" 1/2" 1/2"
 ④ AGGREGATE SUBGRADE IMPROVEMENT 12"
 ⑤ METAL ARCHWAY BRIDGES, 4"
 ⑥ SURFACE CHANNEL INTERIOR, THE C & F (SEE STANDARD DRAWING)
 ⑦ AGGREGATE SUBGRADE, TYPE A, 6"
 ⑧ FINISH: DASHED TERMINAL, THE A, J, STEEL PLATE NEW CHANNEL, THE A, & FOOT PROTS
 ⑨ FORMAL FINISH AND FLARE, IF "DESIGNER CLASS" OR "DESIGNER CONTROL" BLANKET THE LONGITUDINAL PLAN

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	MIN. CEMENT	MIN. ASPHALT	MIN. SAND	MIN. GRAVEL	MIN. STONE
TYPE 1	4.0	5.0	10.0	10.0	10.0
TYPE 2	4.0	5.0	10.0	10.0	10.0
TYPE 3	4.0	5.0	10.0	10.0	10.0
TYPE 4	4.0	5.0	10.0	10.0	10.0
TYPE 5	4.0	5.0	10.0	10.0	10.0
TYPE 6	4.0	5.0	10.0	10.0	10.0
TYPE 7	4.0	5.0	10.0	10.0	10.0
TYPE 8	4.0	5.0	10.0	10.0	10.0
TYPE 9	4.0	5.0	10.0	10.0	10.0
TYPE 10	4.0	5.0	10.0	10.0	10.0
TYPE 11	4.0	5.0	10.0	10.0	10.0
TYPE 12	4.0	5.0	10.0	10.0	10.0
TYPE 13	4.0	5.0	10.0	10.0	10.0
TYPE 14	4.0	5.0	10.0	10.0	10.0
TYPE 15	4.0	5.0	10.0	10.0	10.0
TYPE 16	4.0	5.0	10.0	10.0	10.0
TYPE 17	4.0	5.0	10.0	10.0	10.0
TYPE 18	4.0	5.0	10.0	10.0	10.0
TYPE 19	4.0	5.0	10.0	10.0	10.0
TYPE 20	4.0	5.0	10.0	10.0	10.0
TYPE 21	4.0	5.0	10.0	10.0	10.0
TYPE 22	4.0	5.0	10.0	10.0	10.0
TYPE 23	4.0	5.0	10.0	10.0	10.0
TYPE 24	4.0	5.0	10.0	10.0	10.0
TYPE 25	4.0	5.0	10.0	10.0	10.0
TYPE 26	4.0	5.0	10.0	10.0	10.0
TYPE 27	4.0	5.0	10.0	10.0	10.0
TYPE 28	4.0	5.0	10.0	10.0	10.0
TYPE 29	4.0	5.0	10.0	10.0	10.0
TYPE 30	4.0	5.0	10.0	10.0	10.0
TYPE 31	4.0	5.0	10.0	10.0	10.0
TYPE 32	4.0	5.0	10.0	10.0	10.0
TYPE 33	4.0	5.0	10.0	10.0	10.0
TYPE 34	4.0	5.0	10.0	10.0	10.0
TYPE 35	4.0	5.0	10.0	10.0	10.0
TYPE 36	4.0	5.0	10.0	10.0	10.0
TYPE 37	4.0	5.0	10.0	10.0	10.0
TYPE 38	4.0	5.0	10.0	10.0	10.0
TYPE 39	4.0	5.0	10.0	10.0	10.0
TYPE 40	4.0	5.0	10.0	10.0	10.0
TYPE 41	4.0	5.0	10.0	10.0	10.0
TYPE 42	4.0	5.0	10.0	10.0	10.0
TYPE 43	4.0	5.0	10.0	10.0	10.0
TYPE 44	4.0	5.0	10.0	10.0	10.0
TYPE 45	4.0	5.0	10.0	10.0	10.0
TYPE 46	4.0	5.0	10.0	10.0	10.0
TYPE 47	4.0	5.0	10.0	10.0	10.0
TYPE 48	4.0	5.0	10.0	10.0	10.0
TYPE 49	4.0	5.0	10.0	10.0	10.0
TYPE 50	4.0	5.0	10.0	10.0	10.0
TYPE 51	4.0	5.0	10.0	10.0	10.0
TYPE 52	4.0	5.0	10.0	10.0	10.0
TYPE 53	4.0	5.0	10.0	10.0	10.0
TYPE 54	4.0	5.0	10.0	10.0	10.0
TYPE 55	4.0	5.0	10.0	10.0	10.0
TYPE 56	4.0	5.0	10.0	10.0	10.0
TYPE 57	4.0	5.0	10.0	10.0	10.0
TYPE 58	4.0	5.0	10.0	10.0	10.0
TYPE 59	4.0	5.0	10.0	10.0	10.0
TYPE 60	4.0	5.0	10.0	10.0	10.0
TYPE 61	4.0	5.0	10.0	10.0	10.0
TYPE 62	4.0	5.0	10.0	10.0	10.0
TYPE 63	4.0	5.0	10.0	10.0	10.0
TYPE 64	4.0	5.0	10.0	10.0	10.0
TYPE 65	4.0	5.0	10.0	10.0	10.0
TYPE 66	4.0	5.0	10.0	10.0	10.0
TYPE 67	4.0	5.0	10.0	10.0	10.0
TYPE 68	4.0	5.0	10.0	10.0	10.0
TYPE 69	4.0	5.0	10.0	10.0	10.0
TYPE 70	4.0	5.0	10.0	10.0	10.0
TYPE 71	4.0	5.0	10.0	10.0	10.0
TYPE 72	4.0	5.0	10.0	10.0	10.0
TYPE 73	4.0	5.0	10.0	10.0	10.0
TYPE 74	4.0	5.0	10.0	10.0	10.0
TYPE 75	4.0	5.0	10.0	10.0	10.0
TYPE 76	4.0	5.0	10.0	10.0	10.0
TYPE 77	4.0	5.0	10.0	10.0	10.0
TYPE 78	4.0	5.0	10.0	10.0	10.0
TYPE 79	4.0	5.0	10.0	10.0	10.0
TYPE 80	4.0	5.0	10.0	10.0	10.0
TYPE 81	4.0	5.0	10.0	10.0	10.0
TYPE 82	4.0	5.0	10.0	10.0	10.0
TYPE 83	4.0	5.0	10.0	10.0	10.0
TYPE 84	4.0	5.0	10.0	10.0	10.0
TYPE 85	4.0	5.0	10.0	10.0	10.0
TYPE 86	4.0	5.0	10.0	10.0	10.0
TYPE 87	4.0	5.0	10.0	10.0	10.0
TYPE 88	4.0	5.0	10.0	10.0	10.0
TYPE 89	4.0	5.0	10.0	10.0	10.0
TYPE 90	4.0	5.0	10.0	10.0	10.0
TYPE 91	4.0	5.0	10.0	10.0	10.0
TYPE 92	4.0	5.0	10.0	10.0	10.0
TYPE 93	4.0	5.0	10.0	10.0	10.0
TYPE 94	4.0	5.0	10.0	10.0	10.0
TYPE 95	4.0	5.0	10.0	10.0	10.0
TYPE 96	4.0	5.0	10.0	10.0	10.0
TYPE 97	4.0	5.0	10.0	10.0	10.0
TYPE 98	4.0	5.0	10.0	10.0	10.0
TYPE 99	4.0	5.0	10.0	10.0	10.0
TYPE 100	4.0	5.0	10.0	10.0	10.0

EXISTING TYPICAL SECTION
 STA 104+00 TO STA 104+00
 STA 104+00 TO STA 104+00
 STA 104+00 TO STA 104+00

PROPOSED TYPICAL SECTION
 STA 104+00 TO STA 104+00
 STA 104+00 TO STA 104+00
 STA 104+00 TO STA 104+00

PROPOSED LEGEND

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	MIN. CEMENT	MIN. ASPHALT	MIN. SAND	MIN. GRAVEL	MIN. STONE
TYPE 1	4.0	5.0	10.0	10.0	10.0
TYPE 2	4.0	5.0	10.0	10.0	10.0
TYPE 3	4.0	5.0	10.0	10.0	10.0
TYPE 4	4.0	5.0	10.0	10.0	10.0
TYPE 5	4.0	5.0	10.0	10.0	10.0
TYPE 6	4.0	5.0	10.0	10.0	10.0
TYPE 7	4.0	5.0	10.0	10.0	10.0
TYPE 8	4.0	5.0	10.0	10.0	10.0
TYPE 9	4.0	5.0	10.0	10.0	10.0
TYPE 10	4.0	5.0	10.0	10.0	10.0
TYPE 11	4.0	5.0	10.0	10.0	10.0
TYPE 12	4.0	5.0	10.0	10.0	10.0
TYPE 13	4.0	5.0	10.0	10.0	10.0
TYPE 14	4.0	5.0	10.0	10.0	10.0
TYPE 15	4.0	5.0	10.0	10.0	10.0
TYPE 16	4.0	5.0	10.0	10.0	10.0
TYPE 17	4.0	5.0	10.0	10.0	10.0
TYPE 18	4.0	5.0	10.0	10.0	10.0
TYPE 19	4.0	5.0	10.0	10.0	10.0
TYPE 20	4.0	5.0	10.0	10.0	10.0
TYPE 21	4.0	5.0	10.0	10.0	10.0
TYPE 22	4.0	5.0	10.0	10.0	10.0
TYPE 23	4.0	5.0	10.0	10.0	10.0
TYPE 24	4.0	5.0	10.0	10.0	10.0
TYPE 25	4.0	5.0	10.0	10.0	10.0
TYPE 26	4.0	5.0	10.0	10.0	10.0
TYPE 27	4.0	5.0	10.0	10.0	10.0
TYPE 28	4.0	5.0	10.0	10.0	10.0
TYPE 29	4.0	5.0	10.0	10.0	10.0
TYPE 30	4.0	5.0	10.0	10.0	10.0
TYPE 31	4.0	5.0	10.0	10.0	10.0
TYPE 32	4.0	5.0	10.0	10.0	10.0
TYPE 33	4.0	5.0	10.0	10.0	10.0
TYPE 34	4.0	5.0	10.0	10.0	10.0
TYPE 35	4.0	5.0	10.0	10.0	10.0
TYPE 36	4.0	5.0	10.0	10.0	10.0
TYPE 37	4.0	5.0	10.0	10.0	10.0
TYPE 38	4.0	5.0	10.0	10.0	10.0
TYPE 39	4.0	5.0	10.0	10.0	10.0
TYPE 40	4.0	5.0	10.0	10.0	10.0
TYPE 41	4.0	5.0	10.0	10.0	10.0
TYPE 42	4.0	5.0	10.0	10.0	10.0
TYPE 43	4.0	5.0	10.0	10.0	10.0
TYPE 44	4.0	5.0	10.0	10.0	10.0
TYPE 45	4.0	5.0	10.0	10.0	10.0
TYPE 46	4.0	5.0	10.0	10.0	10.0
TYPE 47	4.0	5.0	10.0	10.0	10.0
TYPE 48	4.0	5.0	10.0	10.0	10.0
TYPE 49	4.0	5.0	10.0	10.0	10.0
TYPE 50	4.0	5.0	10.0	10.0	10.0
TYPE 51	4.0	5.0	10.0	10.0	10.0
TYPE 52	4.0	5.0	10.0	10.0	10.0
TYPE 53	4.0	5.0	10.0	10.0	10.0
TYPE 54	4.0	5.0	10.0	10.0	10.0
TYPE 55	4.0	5.0	10.0	10.0	10.0
TYPE 56	4.0	5.0	10.0	10.0	10.0
TYPE 57	4.0	5.0	10.0	10.0	10.0
TYPE 58	4.0	5.0	10.0	10.0	10.0
TYPE 59	4.0	5.0	10.0	10.0	10.0
TYPE 60	4.0	5.0	10.0	10.0	10.0
TYPE 61	4.0	5.			

Flat Iron Road Bridge

Title	Flat Iron Road Bridge	Municipality	City of Harvard
Scope of Work	Bridge Replacement	Board District	District 6
Category	Preservation	Total Cost	\$1,750,000
Lead Agency	McHenry County DOT		https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/flat-iron
Project ID	SN 056-3019	Website	https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/flat-iron
Location	0.4 miles south of IL 173, 0.1 miles north of Airport Road in Harvard	Daily Traffic	1,500 (2017)
Description	This funding is for the replacement of an existing bridge built in 1950 over Mokeler Creek. It had a sufficiency rating of 53.3/100 in 2018. Construction is anticipated in 2024.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
ENGR1		County Matching Fund	\$40,000							\$0
		Federal STP Bridge	\$160,000							\$0
		Total Engineering 1	\$200,000							
ENGR2		County Matching Fund				\$30,000				\$30,000
		Federal STP Bridge				\$120,000				\$120,000
		Total Engineering 2				\$150,000				\$150,000
ROW		County Bridge Fund				\$100,000				\$100,000
		Total Right of Way				\$100,000				\$100,000
CONST		County Matching						\$300,000		\$300,000
		Federal STP Bridge						\$1,200,000		\$1,200,000
		Total Construction						\$1,500,000		\$1,500,000
		Total Programmed		\$0	\$0	\$250,000	\$0	\$1,500,000		\$1,750,000

Total County Cost: \$430,000

Total Federal Share: \$1,320,000



Harmony Road Bridge

Title	Harmony Road Bridge	
Scope of Work	Bridge Replacement	Municipality Unincorporated Riley Township
Category	Preservation	Board District District 6
Lead Agency	McHenry County DOT	Total Cost \$2,750,000
Project ID	SN 056-3138	Website https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/harmony
Location	0.3 miles east of Payne Road, 0.4 miles west of I-90	
Description	This funding is for the replacement of an existing bridge built in 1980 over Coon Creek. It had a sufficiency rating of 51/100 in 2018. Construction is anticipated in 2024.	

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Harmony Road Bridge	ENGR1	County Bridge Fund	\$40,000							\$0
		Federal STP Bridge	\$160,000							\$0
		Total Engineering 1	\$200,000							\$0
	ENGR2	County Matching Fund				\$30,000				\$30,000
		Federal STP Bridge				\$120,000				\$120,000
		Total Engineering 2				\$150,000				\$150,000
	ROW	County Bridge Fund				\$100,000				\$100,000
		Total Right of Way				\$100,000				\$100,000
	CONST	County Matching						\$500,000		\$500,000
		Federal STP Bridge						\$2,000,000		\$2,000,000
		Total Construction						\$2,500,000		\$2,500,000
Total Programmed			\$0	\$0	\$250,000	\$0	\$2,500,000		\$2,750,000	

Total County Cost: \$630,000

Total Federal Share: \$2,120,000



Hunter Road Bridge

Title	Hunter Road Bridge	Municipality	Unincorporated Chemung Township
Scope of Work	Bridge Rehabilitation	Board District	District 6
Category	Preservation	Total Cost	\$1,220,000
Lead Agency	McHenry County DOT	Website	https://www.mchenrycountyil.gov/country-government/departments-j-z/transportation/future-construction/hunter
Project ID	SN 056-3034	Daily Traffic	1,350 (2017)
Location	1.1 miles east of County Line Road, 0.5 miles west of White Oaks Road		
Description	This funding is for a rehabilitation of Hunter Road Bridge built in 1963 over the Little Beaver Creek. It had a sufficiency rating of 48.6/100 in 2018. Construction is anticipated in 2023.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Hunter Road Bridge	ENGR	County Bridge Fund	\$36,825							\$0
		Total Engineering	\$36,825							\$0
	ENGR1	County Bridge Fund	\$38,000							\$0
	ENGR1	Federal STP Bridge	\$152,000							\$0
		Total Engineering 1	\$190,000							\$0
	ENGR2	County Matching			\$24,000					\$24,000
	ENGR2	Federal STP Bridge			\$96,000					\$96,000
		Total Engineering 2			\$120,000					\$120,000
	ROW	County Bridge Fund			\$100,000					\$100,000
		Total Engineering 2			\$100,000					\$100,000
	CONST	County Matching					\$200,000			\$200,000
	CONST	Federal STP Bridge					\$800,000			\$800,000
		Total Construction					\$1,000,000			\$1,000,000
		Total Programmed		\$0	\$220,000	\$0	\$1,000,000	\$0		\$1,220,000

Total County Cost: \$324,000

Total Federal Share: \$896,000



Johnsburg Road Bridge

Title	Johnsburg Road Bridge		
Scope of Work	Bridge Replacement	Municipality	Johnsburg
Category	Preservation	Board District	District 4
Lead Agency	McHenry County DOT	Total Cost	\$2,450,000
Project ID	SN 056-3159	Website	N/A
Location	Just east of Riverside Drive, 0.2 miles west of Dutch Creek Lane		
Description	This funding is for a rehabilitation of Johnsburg Road Bridge built in 1994 over the Dutch Creek. It had a sufficiency rating of 57/100 in 2018. Construction is anticipated in 2024.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Johnsburg Road Bridge	ENGR1	County Bridge Fund		\$40,000						\$40,000
	ENGR1	Federal STP Bridge		\$160,000						\$160,000
		Total Engineering 1		\$200,000						\$200,000
	ENGR2	County Matching				\$30,000				\$30,000
	ENGR2	Federal STP Bridge				\$120,000				\$120,000
		Total Engineering 2				\$150,000				\$150,000
	ROW	County Bridge Fund				\$100,000				\$100,000
		Total Right of Way				\$100,000				\$100,000
	CONST	County Matching						\$400,000		\$400,000
	CONST	Federal STP Bridge						\$1,600,000		\$1,600,000
		Total Construction						\$2,000,000		\$2,000,000
		Total Programmed		\$200,000		\$250,000		\$2,000,000		\$2,450,000

Total County Cost: \$570,000

Total Federal Share: \$1,880,000



Johnson Road Bridge

Title	Johnson Road Bridge		Municipality	Unincorporated Hebron Township						
Scope of Work	Bridge Rehabilitation		Board District	District 6						
Category	Preservation		Total Cost	\$1,700,000						
Lead Agency	McHenry County DOT		https://www.mchenrycountyil.gov/county-government/departments-i-z/transportation/future-construction/johnson							
Project ID	SN 056-3128		Website	https://www.mchenrycountyil.gov/county-government/departments-i-z/transportation/future-construction/johnson						
Location	0.5 miles south of O'Brien Road, 0.6 miles north of Durkee Road		Daily Traffic	325 (2017)						
Description	This funding is for a deck rehabilitation of Johnson Road Bridge built in 1978 over the Nippersink Creek. It had a sufficiency rating of 35.5/100 in 2018. A weight restriction of 12 tons for single unit vehicles and 19 tons for combination vehicles was placed on the bridge on April 24, 2017. Construction is anticipated in 2023.									
Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Johnson Road Bridge	ENGR1	County Bridge Fund	\$40,000							\$0
	ENGR1	Federal STP Bridge	\$160,000							\$0
		Total Engineering 1	\$200,000							\$0
	ENGR2	County Matching			\$30,000					\$30,000
	ENGR2	Federal STP Bridge			\$120,000					\$120,000
		Total Engineering 2			\$150,000					\$150,000
	ROW	County Bridge Fund			\$50,000					\$50,000
		Total Right of Way			\$50,000					\$50,000
	CONST	County Matching					\$300,000			\$300,000
	CONST	Federal STP Bridge					\$1,200,000			\$1,200,000
		Total Construction					\$1,500,000			\$1,500,000
		Total Programmed			\$200,000		\$1,500,000			\$1,700,000

Total County Cost: \$380,000

Total Federal Share: \$1,320,000



Kishwaukee Valley Road Culvert

Title	Kishwaukee Valley Road Culvert	
Scope of Work	Culvert	Municipality Unincorporated Marengo Township
Category	Preservation	Board District District 6
Lead Agency	McHenry County DOT	Total Cost \$1,050,000
Project ID	SN 056-3202	Website https://www.mchenrycountyil.gov/county-government/departments-i-z/transportation/future-construction/kishwaukee
Location	0.4 miles east of Root Road, 1.1 miles west of Hawthorn Road	
Description	This funding is to replace the concrete box culvert built in 1945 that carries a tributary of Rush Creek under Kishwaukee Valley Road. It had a sufficiency rating of 56.6/100 in 2018 and construction is anticipated in 2020.	

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Kishwaukee Valley Culvert	ENGR	County Matching	\$75,000							\$0
		Total Engineering	\$75,000							\$0
	ROW	County Bridge Fund		\$50,000						\$50,000
		Total Right of Way		\$50,000						\$50,000
	CONST	County Option MFT		\$1,000,000						\$1,000,000
		Total Construction		\$1,000,000						\$1,000,000
		Total Programmed		\$1,050,000						\$1,050,000

Total County Cost: \$1,050,000

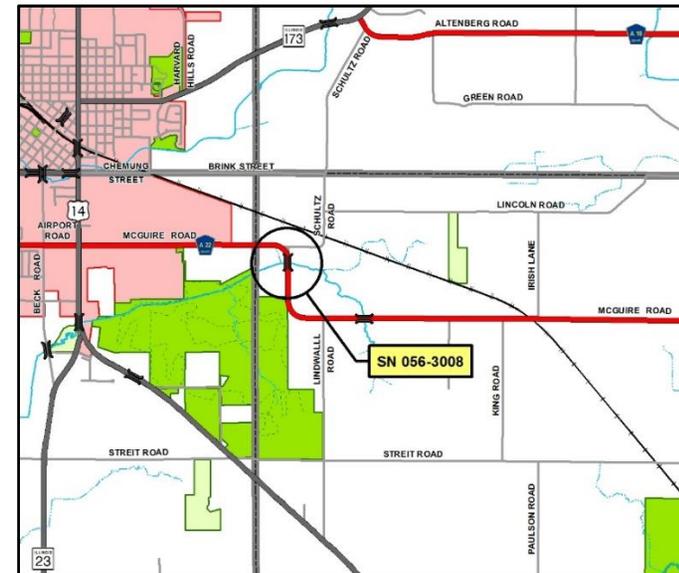


McGuire Road Bridge

Title	McGuire Road Bridge		Municipality	Unincorporated Hartland Township	
Scope of Work	Bridge Rehabilitation		Board District	District 6	
Category	Preservation		Total Cost	\$225,000	
Lead Agency	McHenry County DOT		https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/mcguire		
Project ID	SN 056-3008		Website	https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/mcguire	
Location	0.1 miles south of Schultz Road, 0.6 miles north of Lindwall Road		Daily Traffic	2,500 (2017)	
Description	This funding is for rehabilitation of McGuire Road Bridge built in 1955 over the Rush Creek. It had a sufficiency rating of 75.3/100 in 2018. Construction is anticipated after 2024.				

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
McGuire Road Bridge	ENGR	County Bridge Fund					\$225,000			\$225,000
		<i>Total Engineering</i>					\$225,000			\$225,000
	ROW	County Bridge Fund							\$50,000	\$0
		<i>Total Right of Way</i>							\$50,000	\$0
	CONST	County Bridge Fund							\$1,000,000	\$0
		<i>Total Construction</i>							\$1,000,000	\$0
		Total Programmed					\$225,000			\$225,000

Total County Cost: \$225,000

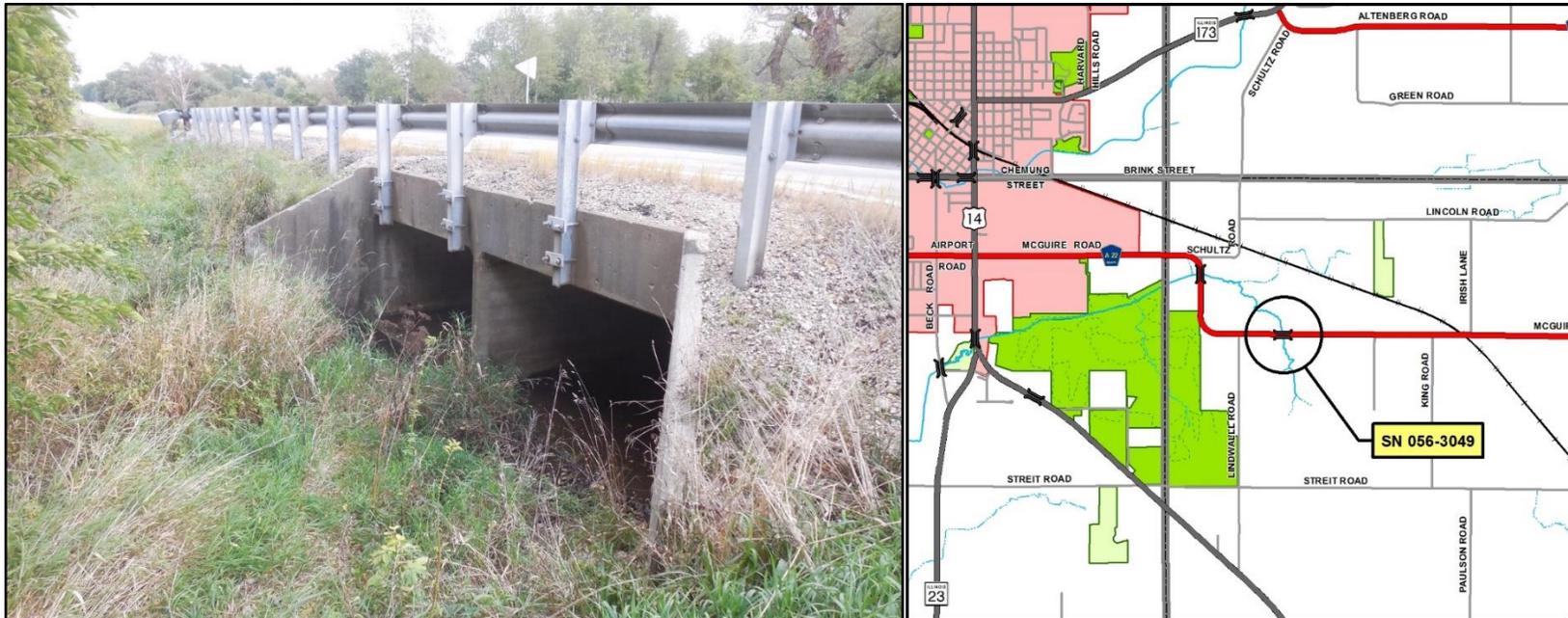


McGuire Road Culvert

Title	McGuire Road Culvert		
Scope of Work	Culvert	Municipality	Unincorporated Hartland Township
Category	Preservation	Board District	District 6
Lead Agency	McHenry County DOT	Total Cost	\$190,000 https://www.mchenrycountyil.gov/county-government/departments-i-z/transportation/future-construction/mcguire-culvert
Project ID	SN 056-3049	Website	https://www.mchenrycountyil.gov/county-government/departments-i-z/transportation/future-construction/mcguire-culvert
Location	0.3 miles E of Lindwall Road, 0.6 miles W of Countryside Lane		
Description	This funding is to replace the concrete box culvert that carries a branch of the Rush Creek under McGuire Road. It had a sufficiency rating of 97/100 in 2016 and construction is anticipated after 2024.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
McGuire Road Culvert	ENGR	County Bridge Fund					\$190,000			\$190,000
		<i>Total Engineering</i>					\$190,000			\$190,000
	CONST	County Bridge Fund							\$1,000,000	\$0
		<i>Total Construction</i>							\$1,000,000	\$0
		Total Programmed					\$190,000			\$190,000

Total County Cost: \$190,000



Millstream Road Bridges

Title	Millstream Road Bridges	
Scope of Work	Bridge Rehabilitation	Municipality Unincorporated Seneca Township
Category	Preservation	Board District District 6
Lead Agency	McHenry County DOT	Total Cost \$2,800,000
Project ID	SN 056-3022 & SN 056-3023	Website https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/millstream
Location	0.4 miles north of IL 176, 0.2 miles south of River Road	
Description	This funding is for rehabilitation of two bridges on Millstream Road over the Kishwaukee River. The bridges were built in 1964 and had a sufficiency rating of 51.3/100 and 50.4/100 in 2018. Construction is anticipated in 2023.	

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Millstream Road Bridges	ENGR	County Bridge Fund	\$83,662							\$0
		<i>Total Engineering</i>	\$83,662							\$0
	ENGR1	County Bridge Fund	\$63,400							\$0
		Federal STP Bridge	\$253,600							\$0
		<i>Total Engineering 1</i>	\$317,000							\$0
	ENGR2	County Matching			\$40,000					\$40,000
		Federal STP Bridge			\$160,000					\$160,000
		<i>Total Engineering 2</i>			\$200,000					\$200,000
	ROW	County Bridge Fund			\$100,000					\$100,000
		<i>Total Right of Way</i>			\$100,000					\$100,000
	CONST	County Matching					\$500,000			\$500,000
		Federal STP Bridge					\$2,000,000			\$2,000,000
		<i>Total Construction</i>					\$2,500,000			\$2,500,000
		Total Programmed			\$300,000		\$2,500,000		\$2,800,000	

Total County Cost: \$640,000

Total Federal Share: \$2,160,000



Paulson Road Township Bridge

Title	Paulson Road Township Bridge		Municipality	Unincorporated Hartland Township
Scope of Work	Bridge Replacement		Board District	District 6
Category	Preservation		Total Cost	\$1,950,000
Lead Agency	McHenry County DOT		https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/paulson	
Project ID	SN 056-3071		Website	https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/paulson
Location	0.6 miles north of U.S. 14, 1.7 miles south of Streit Road		Daily Traffic	225 (2017)
Description	This funding is for the replacement of an existing Township bridge over the North Branch of the Kishwaukee River in Hartland Township. The existing bridge was built in 1959. It has a sufficiency rating of 28.5/100 in 2018. Construction is anticipated in 2024.			

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Paulson Road Bridge	ENGR1	County Bridge Fund		\$40,000						\$40,000
	ENGR1	Federal STP Bridge		\$160,000						\$160,000
		Total Engineering 1		\$200,000						\$200,000
	ENGR2	County Matching				\$30,000				\$30,000
	ENGR2	Federal STP Bridge				\$120,000				\$120,000
		Total Engineering 2				\$150,000				\$150,000
	ROW	County Bridge Fund				\$100,000				\$100,000
		Total Right of Way				\$100,000				\$100,000
	CONST	County Matching						\$300,000		\$300,000
	CONST	Federal STP Bridge						\$1,200,000		\$1,200,000
		Total Construction						\$1,500,000		\$1,500,000
		Total Programmed		\$200,000	\$0	\$250,000	\$0	\$1,500,000		\$1,950,000

Total County Cost: \$470,000

Total Federal Share: \$1,480,000



Perkins Road (Seneca) Township Culvert

Title	Perkins Road (Seneca) Township Culvert		
Scope of Work	Culvert	Municipality	Seneca Township
Category	Preservation	Board District	District 6
Lead Agency	McHenry County DOT	Total Cost	\$225,000
Project ID	SN 056-3136	Website	N/A
Location	200 feet east of Franklinville Road	Daily Traffic	625 (2017)
Description	This funding is for the replacement of an existing Township culvert for the Franklinville Creek in Seneca Township. The existing culvert was built in 1980. It has a sufficiency rating of 67.6/100 in 2018. Construction is anticipated after 2024.		

Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Perkins Rd Culvert	ENGR1	County Bridge Fund						\$45,000		\$45,000
	ENGR1	Federal STP Bridge						\$180,000		\$180,000
		Total Engineering						\$225,000		\$225,000
	ENGR2	County Bridge Fund							\$30,000	\$0
	ENGR2	Federal STP Bridge							\$120,000	\$0
		Total Engineering							\$150,000	\$0
	ROW	County Bridge Fund							\$100,000	\$0
		Total Right of Way							\$100,000	\$0
	CONST	County Bridge Fund							\$300,000	\$0
	CONST	Federal STP Bridge							\$1,200,000	\$0
		Total Construction							\$1,500,000	\$0
		Total Programmed						\$225,000		\$225,000

Total County Cost: \$45,000

Total Federal Share: \$180,000



Perkins Road (Chemung) Township Culvert

Title	Perkins Road (Chemung) Township Culvert		
Scope of Work	Culvert	Municipality	Chemung Township
Category	Preservation	Board District	District 6
Lead Agency	McHenry County DOT	Total Cost	\$475,000
Project ID	SN 056-5006	Website	N/A
Location	0.2 miles west of Lawrence Road, 0.5 miles east of White Oaks Road		
Description	This funding is for the replacement of an existing Township culvert for the West Branch of the Piscasaw Creek in Chemung Township. The existing culvert was built in 1961. It has a sufficiency rating of 75.9/100 in 2018. Construction is anticipated after 2024.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Perkins Rd Culvert	ENGR1	County Bridge Fund			\$45,000					\$45,000
	ENGR1	Federal STP Bridge			\$180,000					\$180,000
		<i>Total Engineering 1</i>			\$225,000					\$225,000
	ENGR2	County Bridge Fund					\$30,000			\$30,000
	ENGR2	Federal STP Bridge					\$120,000			\$120,000
		<i>Total Engineering 2</i>					\$150,000			\$150,000
	ROW	County Bridge Fund					\$100,000			\$100,000
		<i>Total Right of Way</i>					\$100,000			\$100,000
	CONST	County Bridge Fund							\$300,000	\$0
	CONST	Federal STP Bridge							\$1,200,000	\$0
		<i>Total Construction</i>							\$1,500,000	\$0
		Total Programmed			\$225,000		\$250,000			\$475,000

Total County Cost: \$175,000

Total Federal Share: \$300,000



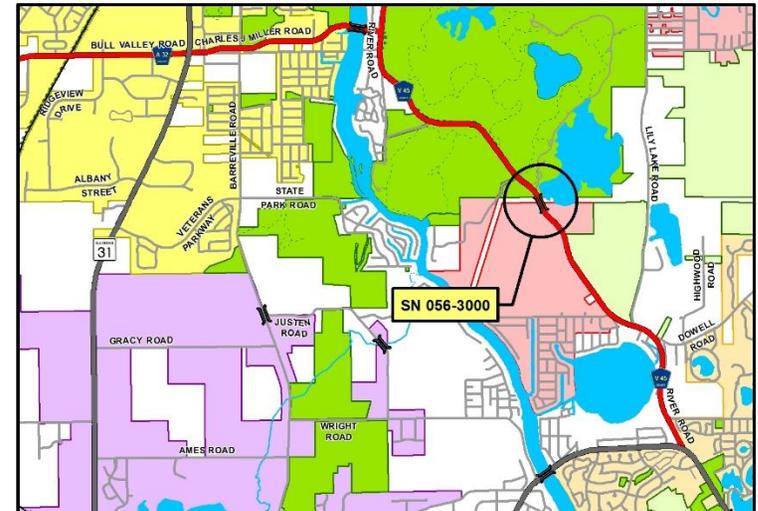
River Road Culvert

Title	River Road Culvert Replacement		
Scope of Work	Culvert	Municipality	Unincorporated Nunda Township
Category	Preservation	Board District	District 3
Lead Agency	McHenry County DOT	Total Cost	\$3,885,000
Project ID	SN 056-3000	Website	N/A
Location	0.2 miles northwest of W Fernview Lane, 0.6 miles southeast of McHenry Dam Road		
Description	A letter of intent was approved by the McHenry County Transportation Committee on 8/1/2018 to enter into an intergovernmental agreement with the Illinois Department of Natural Resources (IDNR) for a culvert replacement project in Unincorporated McHenry County. This project would replace multiple existing culverts with a single box culvert under River Road. Construction is anticipated in 2020.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
River Road Culvert	ENGR	County Option MFT	\$35,000							\$0
	ENGR	IDNR Share	\$55,000							\$0
	<i>Total Design Engineering</i>		\$90,000							
	CONST	County MFT		\$3,000,000						\$3,000,000
	CONST	IDNR Share		\$350,000						\$350,000
	<i>Total Construction</i>			\$3,350,000						
	CE	County MFT		\$500,000						\$500,000
	CE	IDNR Share		\$35,000						\$35,000
	<i>Total Construction Engineering</i>			\$535,000						
Total Programmed				\$3,885,000						\$3,885,000

Total County Cost: \$3,500,000

Total IDNR Share: \$385,000



Streit Road Township Bridge

Title	Streit Road Township Bridge		
Scope of Work	Bridge Rehabilitation	Municipality	Dunham Township
Category	Preservation	Board District	District 6
Lead Agency	McHenry County DOT	Total Cost	\$225,000
Project ID	SN 056-3065	Website	N/A
Location	0.3 miles west of Pagles Road, 0.5 miles east of County Line Road		
Description	This funding is for the replacement of an existing Township culvert for the Piscasaw Creek in Dunham Township. The existing culvert was built in 1959. It has a sufficiency rating of 63.3/100 in 2018. Construction is anticipated after 2024.		

Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Streit Rd Bridge	ENGR1	County Bridge Fund						\$45,000		\$45,000
	ENGR1	Federal STP Bridge						\$180,000		\$180,000
		<i>Total Engineering</i>						\$225,000		\$225,000
	ENGR2	County Bridge Fund							\$30,000	\$0
	ENGR2	Federal STP Bridge							\$120,000	\$0
		<i>Total Engineering</i>							\$150,000	\$0
	ROW	County Bridge Fund							\$100,000	\$0
		<i>Total Right of Way</i>							\$100,000	\$0
	CONST	County Bridge Fund							\$300,000	\$0
	CONST	Federal STP Bridge							\$1,200,000	\$0
		<i>Total Construction</i>							\$1,500,000	\$0
		Total Programmed						\$225,000		0

Total County Cost: \$45,000

Total Federal Share: \$180,000



Thayer Road Township Bridge

Title	Thayer Road Township Bridge Rehabilitation		
Scope of Work	Bridge Rehabilitation	Municipality	Unincorporated Hebron Township
Category	Preservation	Board District	District 6
Lead Agency	McHenry County DOT	Total Cost	\$1,750,000
Project ID	SN 056-3115	Website	N/A
Location	0.2 miles west of IL 47, south of Hebron		
Description	This funding is for the rehabilitation of an existing Township bridge structure over the Nippersink Creek near Illinois Route 47 in Hebron Township. The existing bridge was built in 1975. It had a sufficiency rating of 38/100 in 2018. Construction is anticipated in 2023.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Thayer Road Bridge	ENGR1	County Bridge Fund	\$30,000							\$0
	ENGR1	Federal STP Bridge	\$120,000							\$0
		Total Engineering 1	\$150,000							\$0
	ENGR2	County Matching			\$30,000					\$30,000
	ENGR2	Federal STP Bridge			\$120,000					\$120,000
		Total Engineering 2			\$150,000					\$150,000
	ROW	County Bridge Fund			\$100,000					\$100,000
		Total Right of Way			\$100,000					\$100,000
	CONST	County Matching					\$60,000			\$60,000
	CONST	State TBP Funds					\$240,000			\$240,000
	CONST	Federal STP Bridge					\$1,200,000			\$1,200,000
		Total Construction					\$1,500,000			\$1,500,000
		Total Programmed		\$0	\$250,000	\$0	\$1,500,000			\$1,750,000

Total County Cost: \$190,000

Total Federal Share: \$1,320,000



Township Bridge Rehabilitation Assistance Program

<i>Title</i>	Township Bridge Rehabilitation Assistance Program				<i>Municipality</i>	Various Municipalities				
<i>Scope of Work</i>	Bridge Rehabilitation				<i>Board District</i>	Various Board Districts				
<i>Category</i>	Preservation				<i>Total Cost</i>	\$810,000				
<i>Lead Agency</i>	Townships				<i>Website</i>	N/A				
<i>Project ID</i>	N/A									
<i>Location</i>	McHenry County									
<i>Description</i>	This program is designed to provide financial assistance to Township Road Districts that desire to rehabilitate structures on their own, without the use of Federal funds. This is a more sustainable practice and often avoids land acquisition and wetland, and/or floodplain impacts that are often associated with large scale bridge replacement projects.									
Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Carls, Streit & West Solon		County Option MFT	\$162,000	\$162,000	\$162,000	\$162,000	\$162,000	\$162,000	\$162,000	\$810,000
			\$162,000	\$162,000	\$162,000	\$162,000	\$162,000	\$162,000	\$162,000	\$810,000
		Total Programmed		\$162,000	\$162,000	\$162,000	\$162,000	\$162,000	\$162,000	\$810,000

Total County Cost: \$810,000



West Solon Road Township Bridge

Title	West Solon Road Township Bridge	
Scope of Work	Bridge Replacement	Municipality Unincorporated Richmond Township
Category	Preservation	Board District District 4
Lead Agency	McHenry County DOT	Total Cost \$1,850,000
Project ID	SN 056-3142	Website https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/west-solon
Location	0.5 miles east of IL 31, south of Richmond	
Description	This funding is for the replacement of an existing township structure built in 1983 over the North branch of the Nippersink Creek in Richmond Township. The existing bridge had a sufficiency rating of 30.7/100 in 2018. Construction is anticipated in 2023.	

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
West Solon Road Bridge	ENGR1	County Bridge Fund	\$40,000							\$0
	ENGR1	Federal STP Bridge	\$160,000							\$0
		Total Engineering 1	\$200,000							\$0
	ENGR2	County Matching			\$30,000					\$30,000
	ENGR2	Federal STP Bridge			\$120,000					\$120,000
		Total Engineering 2			\$150,000					\$150,000
	ROW	County Bridge Fund			\$100,000					\$100,000
		Total Right of Way			\$100,000					\$100,000
	CONST	County Matching					\$400,000			\$400,000
	CONST	Federal STP Bridge					\$1,200,000			\$1,200,000
		Total Construction					\$1,600,000			\$1,600,000
		Total Programmed		\$0	\$250,000	\$0	\$1,600,000	\$0		\$1,850,000

Total County Cost: \$530,000

Total Federal Share: \$1,320,000



White Oaks Road Township Bridge

Title	White Oaks Road Township Bridge	
Scope of Work	Bridge Replacement	Municipality Unincorporated Chemung Township
Category	Preservation	Board District District 6
Lead Agency	McHenry County DOT	Total Cost \$1,250,000
Project ID	SN 056-3043	Website https://www.mchenrycountyil.gov/country-government/departments-j-z/transportation/future-construction/white-oaks
Location	0.3 miles south of State Line Road, just east of the Boone County line	
Description	This funding is for the replacement of an existing Township bridge structure over the west branch of the Piskasaw Creek in Chemung Township. The existing bridge was built in 1947 and had a sufficiency rating of 70.4/100 in 2018. Construction is anticipated in 2023.	

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
White Oaks Road Bridge	ENGR1	County Bridge Fund	\$40,000							\$0
	ENGR1	Federal STP Bridge	\$160,000							\$0
		Total Engineering 1	\$200,000							\$0
	ENGR2	County Matching			\$30,000					\$30,000
	ENGR2	Federal STP Bridge			\$120,000					\$120,000
		Total Engineering 2			\$150,000					\$150,000
	ROW	County Bridge Fund			\$100,000					\$100,000
		Total Right of Way			\$100,000					\$100,000
	CONST	County Matching					\$200,000			\$200,000
	CONST	Federal STP Bridge					\$800,000			\$800,000
		Total Construction					\$1,000,000			\$1,000,000
		Total Programmed		\$0	\$250,000	\$0	\$1,000,000	\$0		\$1,250,000

Total County Cost: \$330,000

Total Federal Share: \$920,000

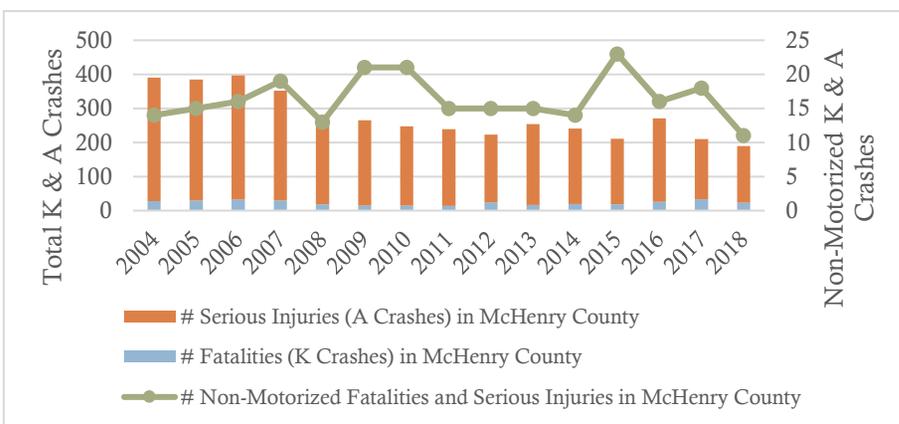


5. Public Safety and Health Program

Public safety projects are intended to reduce the number and severity of crashes at particular locations and enhance safe travel conditions throughout the County. Vehicle crashes result in higher costs to the public through personal injury, loss of worker productivity, property damage, and insurance rates. The perception of unsafe travel conditions reduces accessibility to adjacent properties. Improving sight-lines along a roadway or adding lighting are examples of safety improvements. Between 2020 and 2024, \$8.8 million in public safety improvements are programmed.

McHenry County has the goal of achieving zero fatalities on County roadways. Transportation engineers and planners look to the “four E’s” of transportation safety to reduce the number of fatalities and serious injuries on our roadways: **Engineering, Enforcement, Education and Emergency Response**. Engagement of each of the four components is necessary to improve roadway safety, however the McHenry County relies heavily on other agencies for Enforcement, Education and Emergency Response.

Public Safety Program	Estimated Construction Year	2020-2024 Programmed Costs
Algonquin Rd & Wilmot-Main HSIP Project	2020	\$1,000,000
Low-Cost Safety Improvement Program	N/A	\$250,000
Oak Grove Road Railroad Crossing Project	2021	\$300,000
Pyott Road Corridor Safety Project	2025	\$700,000
Charles Road Corridor Safety Project	2026	\$1,200,000
River Road-Chapel Hill Road Corridor Safety Project	2027	\$2,500,000
Roadside Safety Review	N/A	\$500,000
Tryon Grove Road Corridor Safety Project	2028	\$300,000
Virginia Road HSIP and Complete Streets Project	2022	\$1,400,000
Walkup Road HSIP Project	2021	\$682,400
TOTAL		\$8,832,400
Annual Average		\$1,766,480



Year:	# Fatalities (K) in McHenry County	# Serious Injuries (A Crashes) in McHenry County	# Non-Motorized Fatalities and Serious Injuries in McHenry County
2004	28	362	14
2005	30	355	15
2006	32	365	16
2007	30	322	19
2008	18	262	13
2009	15	250	21
2010	15	232	21
2011	14	225	15
2012	24	199	15
2013	17	237	15
2014	19	222	14
2015	18	193	23
2016	26	245	16
2017	33	177	18
2018	23	166	11

Table 8: Fatalities (K Crashes) and Serious Injury (A Crashes), by Year

The Illinois Department of Transportation (IDOT) provides McHenry County with a “**Local Jurisdiction Safety Tier Analysis**” which ranks local jurisdiction (county, municipal, and township) segments and intersections based on their demonstrated crash history. Where local jurisdiction roadways intersect a State or U.S. road, those intersections are not included in the safety analysis. This 2020-2024 Transportation Program initiates engineering on several “critical” or “high” crash locations identified by IDOT, such as the “River Road Corridor Safety Project”, “Charles Rd/Queen Anne Rd Intersection Safety Project”, “Pyott Road Corridor Safety Project”, and “Tryon Grove Road Corridor Safety Project”.

IDOT’s Highway Safety Improvement Program (HSIP)

IDOT’s Local Highway Safety Improvement Program (HSIP) is a Federal funding source for low-cost safety improvement projects that improve a location/feature or address a highway safety need that is contributing to severe roadway crashes. All phases of a project are eligible for HSIP funding, with a maximum Federal share of ninety percent (90%) and a ten percent (10%) local share.

McHenry County received \$1,088,523 in HSIP funding in 2017 for three projects – Algonquin Rd Intersection improvements, Algonquin Rd /Crystal Lake Rd intersection improvements, and improvements to the intersection of Wilmot Rd and Main St. In 2018, McHenry County received \$884,160 in HSIP funding for a similar safety project along Walkup/Crystal Lake Road. And most recently in 2019 McHenry County received an additional \$1,146,784 in HSIP funding for the installation of flashing yellow arrows at intersections along Virginia Road in Crystal Lake.

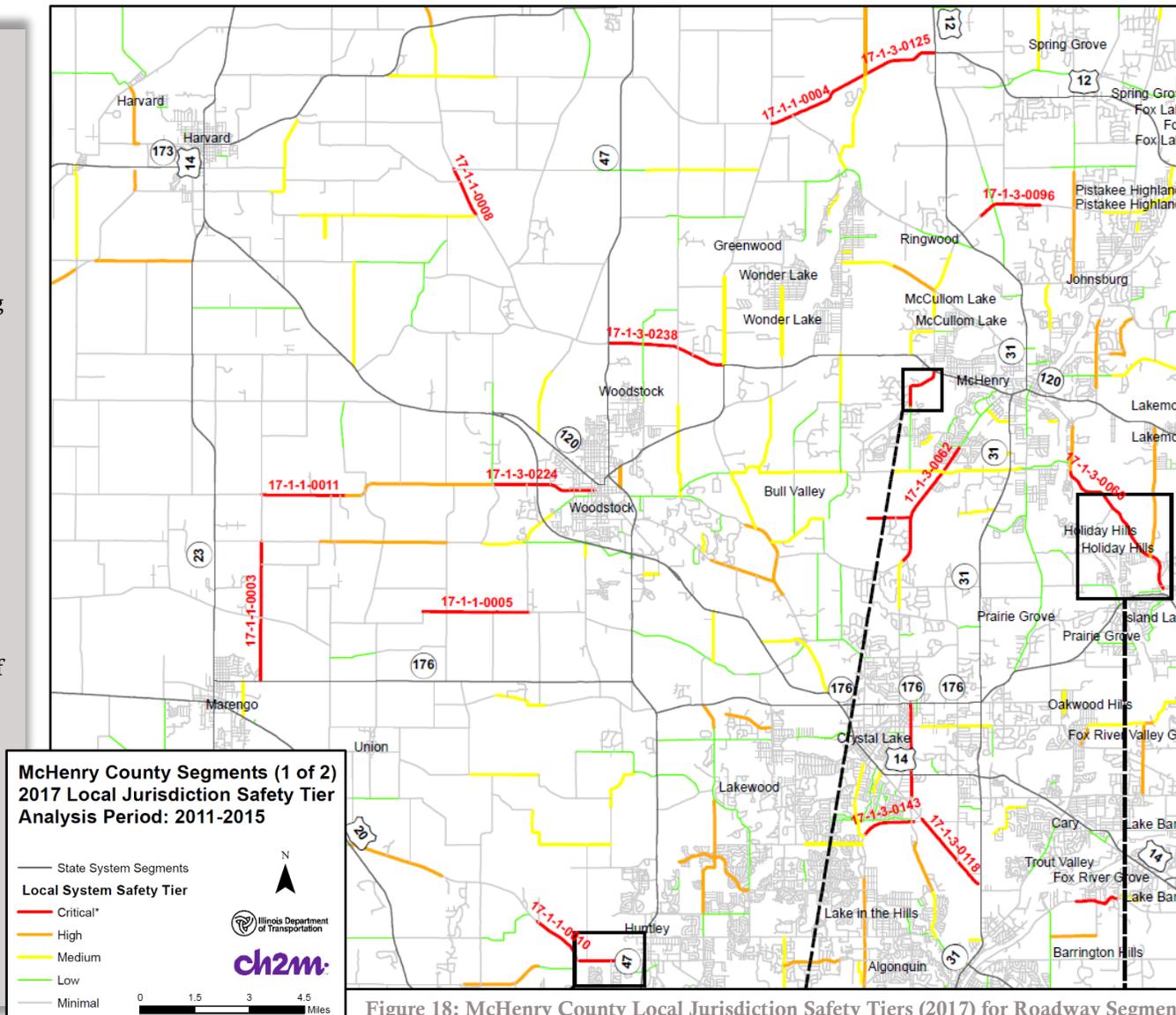


Figure 18: McHenry County Local Jurisdiction Safety Tiers (2017) for Roadway Segments

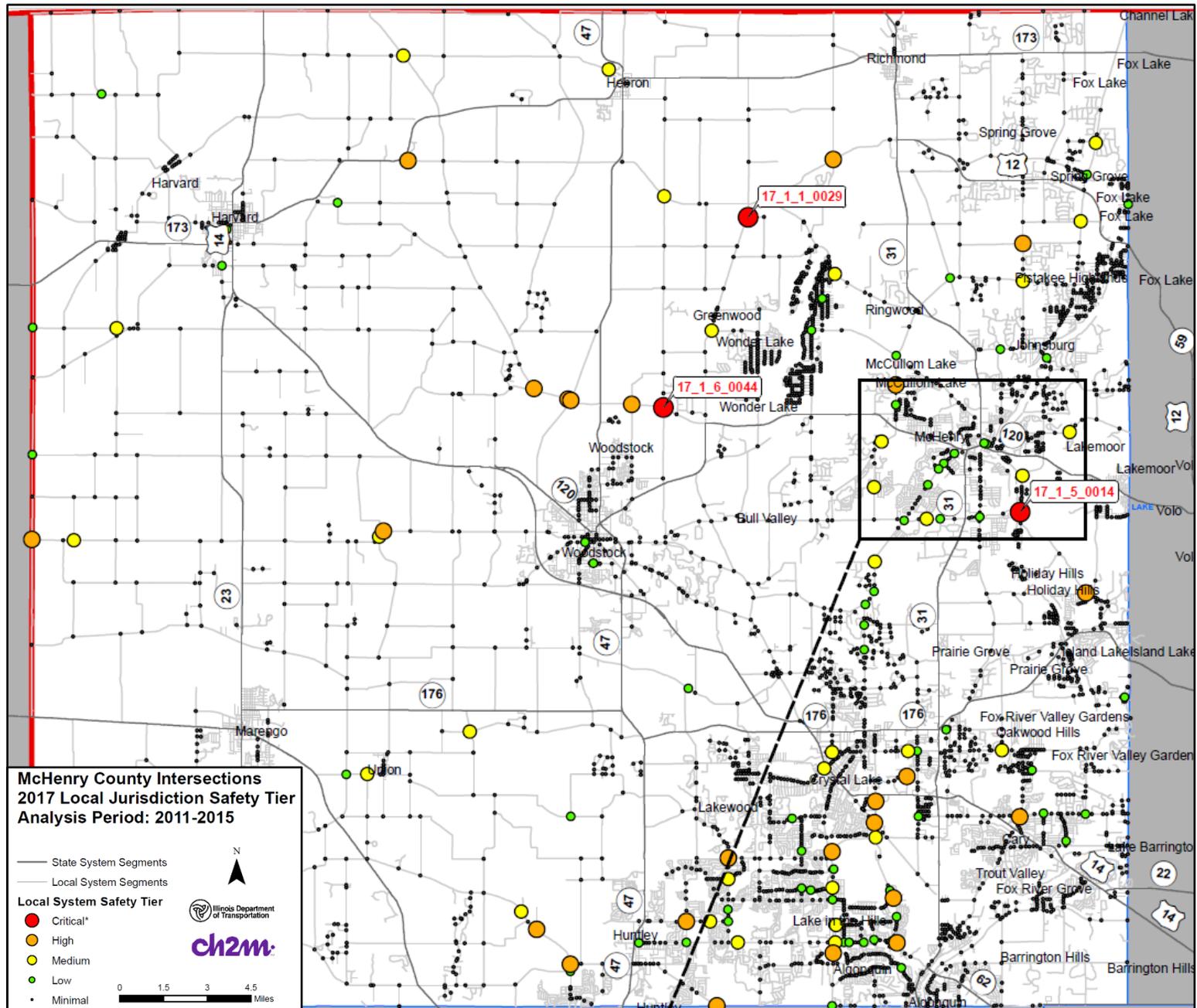


Figure 19: McHenry County Local Jurisdiction Safety Tiers (2017) for Intersection

Algonquin Road & Wilmot Road/Main Street Intersection Safety Projects

Title	Algonquin Road & Wilmot/Main HSIP Project		
Scope of Work	Safety Project	Municipality	Huntley, Lake in the Hills, and Algonquin
Category	Modernization	Board District	District 1, District 2 and District 5
Lead Agency	McHenry County DOT	Total Cost	\$1,000,000
Project ID	N/A	Website	https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/algonquinroad
Limits	Algonquin Road, from Haligus Road to Pyott Road. Intersection of Wilmot Road and Main Street in Burton Township.		
Description	To reduce the number of crashes, intersections along Algonquin Road will be upgraded with Flashing Yellow Arrows (FYA) and high visibility Traffic Signal Backplates with Retroreflective Borders. All of the intersections currently allow protected permissive lefts for eastbound and westbound traffic except at Hanson Road. For this reason, FYA will not be added at this intersection. Left turns will remain protected only and backplates with retroreflective borders will be added to the mast arm signals. The Randall Road and Crystal Lake Road intersections will be omitted as they are being improved as part of a separate project. The intersection of Wilmot Road and Main Street in Burton Township is also being upgraded with the same treatment. Implementation of FYA is a Federal Highway Administration (FHWA) recommended safety improvement to help reduce turning crashes at signalized intersections.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Algonquin Road & Wilmot/Main	ENGR1/2	RTA Sales Tax	\$35,830							\$0
	ENGR1/2	Federal HSIP Funding	\$322,470							\$0
		Total Engineering 1/2	\$358,300							\$0
	CONST	County MFT		\$100,000						\$100,000
	CONST	Federal HSIP Funding		\$900,000						\$900,000
		Total Construction		\$1,000,000						\$1,000,000
		Total Programmed		\$1,000,000						\$1,000,000

Total County Cost: \$100,000

Total Federal HSIP Share: \$900,000



Low-Cost Safety Improvement Program

Title	Low-Cost Safety Improvement Program				
Scope of Work	Small Safety Project	Municipality	Various Municipalities		
Category	Modernization	Board District	Various Board Districts		
Lead Agency	McHenry County DOT	Total Cost	\$250,000		
Project ID	N/A	Website	N/A		
Limits	Various Locations				
Description	This funding is for low-cost improvements to improve safety as identified during the fiscal year. These items include but are not limited to installation of chevrons, flashers, and additional pavement markings. In 2015, Rectangular Rapid Flashing Beacons (RRFBs) were placed on Ackman Road at Westport Ridge to help facilitate safe midblock crossing for students walking to Crystal Lake South High School. In 2016, the MCDOT installed 24 hour warning flashers at the intersection of Pyott Road and Oak Street in Lake in the Hills at a cost of approximately \$10,000. In 2019, a pedestrian crossing and RRFBs were placed at the intersection of Ackman Road and Amberwood Drive in the City of Crystal Lake, and RRFBs were installed at the Ridgefield Road crossing of the McHenry County Conservation District's Ridgefield Trace bike path.				

Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
Various Locations	CONST	RTA Sales Tax	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
				\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		\$250,000
		Total Programmed		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		\$250,000

Total County Cost: \$250,000



Oak Grove Road Railroad Crossing Project

Title	Oak Grove Road Railroad Crossing Safety Project				Municipality	City of Harvard				
Scope of Work	Safety Project				Board District	District 6				
Category	Modernization				Total Cost	\$300,000				
Lead Agency	Illinois Commerce Commission (ICC)				Website	N/A				
Project ID	N/A									
Limits	Oak Grove Road at Union Pacific Railroad Crossing									
Description	This project will utilize funding from the State Grade Crossing Protection Fund (GCPF) to reimburse the Union Pacific Railroad for 85% of the cost to install automatic warning devices at the Oak Grove Road at-grade crossing. McHenry County will reimburse the railroad for 10% of the installation costs, and the railroad will pay all remaining installation costs, as well as all future operating and maintenance costs.									
Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Oak Grove Rd. Crossing	CONST	State GCPF			\$255,000					\$255,000
	CONST	RTA Sales Tax			\$30,000					\$30,000
	CONST	U.P. Railroad			\$15,000					\$15,000
		Total Construction			\$300,000					\$300,000
		Total Programmed			\$300,000					\$300,000

Total County Cost: \$30,000



Pyott Road Corridor Safety Project

Title	Pyott Road Corridor Safety Project		
Scope of Work	Safety Project	Municipality	Village of Lake in the Hills
Category	Modernization	Board District	District 2
Lead Agency	McHenry County DOT	Total Cost	\$700,000
Project ID	N/A	Website	https://www.mchenrycountyil.gov/country-government/departments-j-z/transportation/future-construction/pyottroad
Limits	Pyott Road from Rakow Road to Algonquin Road in the Village of Lake in the Hills		
Description	This project will address safety concerns that have been raised by the Village of Lake in the Hills and residents living along the Pyott Road corridor, and in particular near the Pyott Road and Oak Street intersection. Federal Highway Safety Improvement Program (HSIP) funding for safety projects will be pursued, which could reduce the cost to McHenry County.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Pyott Road Corridor	FEAS.	RTA Sales Tax			\$300,000					\$300,000
		<i>Total Feasibility</i>			\$300,000					\$300,000
	ENGR1	RTA Sales Tax					\$400,000			\$400,000
		<i>Total Engineering 1</i>					\$400,000			\$400,000
	ENGR2	RTA Sales Tax						\$400,000		\$0
		<i>Total Engineering 2</i>						\$400,000		\$0
	ROW	RTA Sales Tax						\$400,000		\$0
		<i>Total Right of Way</i>						\$400,000		\$0
	CONST	RTA Sales Tax						\$4,000,000		\$0
		<i>Total Construction</i>						\$4,000,000		\$0
	CE	RTA Sales Tax						\$400,000		\$0
		<i>Total Construction Engineering</i>						\$400,000		\$0
		Total Programmed		\$0	\$300,000	\$0	\$400,000	\$0		\$700,000

Total County Cost: \$700,000

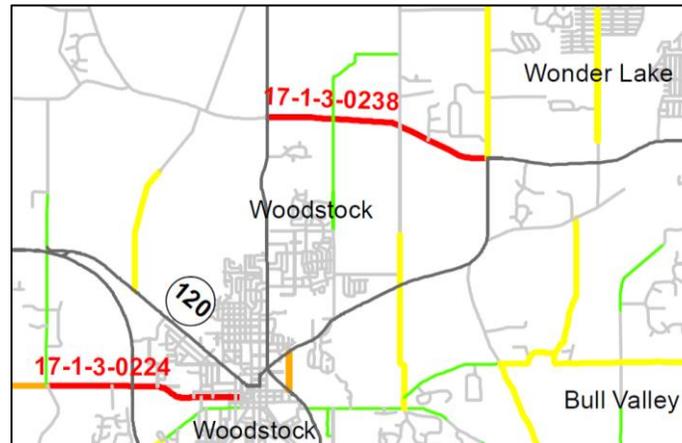
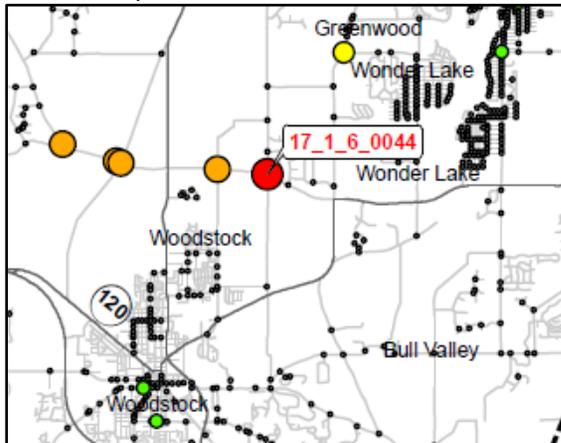


Charles Road Corridor Safety Project

Title	Charles Road Corridor Safety Project		
Scope of Work	Safety Project	Municipality	Unincorporated Greenwood Township
Category	Modernization	Board District	District 6
Lead Agency	McHenry County DOT	Total Cost	\$1,200,000
Project ID	N/A	Website	N/A
Limits	Charles Road from IL 47 to IL 120/Greenwood Road in unincorporated Greenwood Township		
Description	This project will address safety concerns along Charles Road. According to IDOT's "Local Jurisdiction Safety Tier Analysis", Charles Road from IL 47 to IL 120 is identified as a critical safety tier segment. In addition, the intersection of Charles Road and Queen Anne Road is identified as a critical safety tier intersection.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Charles Road	ENGR1	County MFT		\$600,000						\$600,000
		<i>Total Engineering 1</i>		\$600,000						\$600,000
	ENGR2	RTA Sales Tax					\$300,000			\$300,000
		<i>Total Engineering 2</i>					\$300,000			\$300,000
	ROW	RTA Sales Tax					\$300,000			\$300,000
		<i>Total Right of Way</i>					\$300,000			\$300,000
	CONST	RTA Sales Tax							\$3,500,000	\$0
		<i>Total Construction</i>							\$3,500,000	\$0
	CE	RTA Sales Tax							\$400,000	\$0
		<i>Total Construction Engineering</i>							\$400,000	\$0
		Total Programmed		\$600,000	\$0	\$0	\$600,000	\$0		\$1,200,000

Total County Cost: \$1,200,000

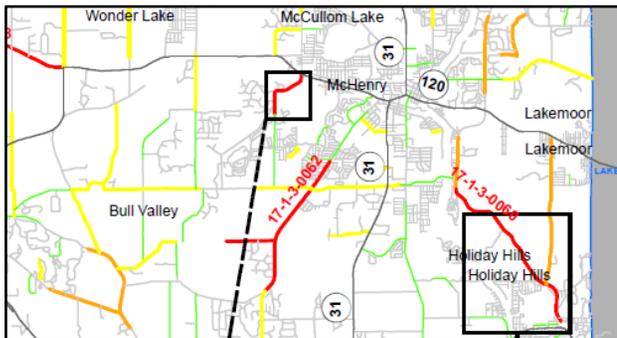


River Road – Chapel Hill Road Corridor Safety Project

Title	River Road - Chapel Hill Road Corridor Safety Project		
Scope of Work	Safety Project	Municipality	Various Municipalities
Category	Modernization	Board District	District 3 & District 4
Lead Agency	McHenry County DOT	Total Cost	\$2,500,000
Project ID	N/A	Website	https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/riverchapel
Limits	IL 176 to Johnsburg Road		
Description	This nine (9) mile corridor project will identify project stakeholders, funding partners, and funding sources as well as the immediate and long term corridor safety, capacity, structural, and pedestrian needs. Upon completion of the feasibility study, the locations that have been identified as immediate needs will move into the Phase I process. Long term needs will be addressed in the out years.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
River Road Corridor	FEAS.	County Option MFT				\$500,000				\$500,000
		<i>Total Feasibility</i>				\$500,000				\$500,000
	ENGR1	RTA Sales Tax						\$2,000,000		\$2,000,000
		<i>Total Engineering 1</i>						\$2,000,000		\$2,000,000
	ENGR2	RTA Sales Tax							\$3,000,000	\$0
		<i>Total Engineering 2</i>							\$3,000,000	\$0
	ROW	RTA Sales Tax							\$2,000,000	\$0
		<i>Total Right of Way</i>							\$2,000,000	\$0
	CONST	RTA Sales Tax							\$10,000,000	\$0
		<i>Total Construction</i>							\$10,000,000	\$0
	CE	RTA Sales Tax							\$1,500,000	\$0
		<i>Total Construction Engineering</i>							\$1,500,000	\$0
		Total Programmed		\$0	\$0	\$500,000	\$0	\$2,000,000		\$2,500,000

Total County Cost: \$2,500,000



Roadside Safety Review

<i>Title</i>	McHenry County Roadside Safety Review										
<i>Scope of Work</i>	Planning										
<i>Category</i>	Modernization										
<i>Lead Agency</i>	McHenry County DOT										
<i>Project ID</i>	N/A										
<i>Limits</i>	Countywide										
<i>Description</i>	This planning project aims to identify and address current and future safety issues along County roadways. This project's scope will include an evaluation of the existing safety conditions of County roadsides, a development of performance criteria which can be used to prioritize future safety projects, and a list of recommended safety projects to be incorporated into the County's Five-Year Transportation Program. Work on this study will be performed by a consultant.										
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Countywide	CONST	RTA Sales Tax		\$100,000							\$100,000
		IDOT SPR Grant		\$400,000							\$400,000
				\$500,000							\$500,000
		Total Programmed		\$500,000							\$500,000

Total County Cost: \$100,000

Total Federal Share: \$400,000

Tryon Grove Road Corridor Safety Project

Title	Tryon Grove Road Corridor Safety Project		
Scope of Work	Safety Project	Municipality	Hebron and Richmond Townships
Category	Modernization	Board District	Districts 4 and 6
Lead Agency	McHenry County DOT	Total Cost	\$300,000
Project ID	N/A	Website	https://www.mchenrycountyil.gov/county-government/departments-j-z/transportation/future-construction/tryongrove
Limits	Greenwood Road to U.S. 12		
Description	This four (4) mile corridor project will identify project stakeholders, funding partners, and funding sources as well as the immediate and long term corridor safety, operational, structural, and pedestrian needs. Upon completion of the feasibility study, the locations that have been identified as immediate needs will move into the Phase I process. Long term needs will be addressed in later years. This entire corridor, from Greenwood Road to U.S. 12/IL 31 is rated as “critical” on IDOT’s 2017 Local Jurisdiction Safety Tier Analysis.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Tryon Grove Corridor Safety Project	FEAS.	RTA Sales Tax					\$300,000		\$0	\$300,000
	<i>Total Feasibility</i>						\$300,000		\$0	\$300,000
	ENGR1	RTA Sales Tax							\$1,000,000	\$0
	<i>Total Engineering 1</i>								\$1,000,000	\$0
	ENGR2	RTA Sales Tax							\$1,500,000	\$0
	<i>Total Engineering 2</i>								\$1,500,000	\$0
	ROW	RTA Sales Tax							\$500,000	\$0
	<i>Total Right of Way</i>								\$500,000	\$0
	CONST	RTA Sales Tax							\$4,000,000	\$0
	<i>Total Construction</i>								\$4,000,000	\$0
	CE	RTA Sales Tax							\$400,000	\$0
	<i>Total Construction Engineering</i>								\$400,000	\$0
	Total Programmed			\$0	\$0	\$0	\$300,000	\$0		\$300,000

Total County Cost: \$300,000



Virginia Road HSIP and Complete Streets Project

Title	Virginia Road HSIP and Complete Streets Project		
Scope of Work	Safety Project	Municipality	City of Crystal Lake
Category	Modernization	Board District	District 2
Lead Agency	McHenry County DOT	Total Cost	\$1,400,000
Project ID	N/A	Website	N/A
Limits	Virginia Road, from U.S. 14 to Main Street		
Description	This funding is for the installation of flashing yellow arrows, resurfacing, ADA improvements, and addition of pedestrian accommodations to Virginia Road, from U.S. 14 to Main Street/Pyott Road in Crystal Lake. On September 4, 2019 MCDOT received a Federal Highway Safety Improvement Program (HSIP) grant in the amount of \$1,146,784 for the flashing yellow arrow component.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Virginia Road	ENGR1/2	County MFT		\$85,000						\$85,000
		Federal HSIP Funding		\$315,000						\$315,000
		Total Engineering		\$400,000						\$400,000
	CONST	RTA Sales Tax				\$168,216				\$168,216
		Federal HSIP Funding				\$831,784				\$831,784
		Total Construction				\$1,000,000				\$1,000,000
		Total Programmed		\$400,000	\$0	\$1,000,000	\$0	\$0		\$1,400,000

Total County Cost: \$253,216

Total Federal HSIP Share: \$1,146,784



Walkup Road/Crystal Lake Road HSIP Project

Title	Walkup Road/Crystal Lake Road HSIP Project		
Scope of Work	Safety Project	Municipality	Nunda Township
Category	Modernization	Board District	District 3
Lead Agency	McHenry County DOT	Total Cost	\$682,400
Project ID	N/A	Website	https://www.mchenrycountyil.gov/courty-government/departments-j-z/transportation/future-construction/walkuproad
Limits	Hillside Road to Bull Valley Road		
Description	To reduce the number of crashes, intersections along Walkup Road will be upgraded with Flashing Yellow Arrows (FYA) and high visibility Traffic Signal Backplates with Retroreflective Borders. Implementation of FYA is a Federal Highway Administration (FHWA) recommended safety improvement to help reduce turning crashes at signalized intersections.		

Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	Future FY	Total
Hillside to Bull Valley	ENGR1/2	County Option MFT	\$30,000							\$0
	ENGR1/2	Federal HSIP Funding	\$270,000							\$0
		Total Engineering 1/2	\$300,000							\$0
	CONST	County Matching Fund			\$68,240					\$68,240
	CONST	Federal HSIP Funding			\$614,160					\$614,160
		Total Construction			\$682,400					\$682,400
		Total Programmed		\$0	\$682,400	\$0	\$0	\$0		\$682,400

Total County Cost: \$68,240

Total Federal HSIP Share: \$614,160



6. County Highway Operational and Capacity Program

County Highway operational and capacity projects are intended to reduce “spot” delays at particular intersections and along particular roadways while better accommodating various highway users. Dedicated turn lanes, roundabouts, pedestrian crossings, and traffic signals are examples of these types of projects. If left unaddressed, operational and capacity problems may become safety problems as travelers adopt more aggressive behaviors. Capacity projects typically are large in scale and involve the construction of additional through lanes, turn lanes, and new roadways. Such projects are primarily developed based on the result of the County’s adopted Long-Range Transportation Plan. Between 2020 and 2024, \$57.3 million has been programmed for operational and capacity improvements. Of that amount, \$45.7 million is programmed from County funding sources.

County Highway Operational and Capacity Program		2020-2024 Programmed Costs
Ackman Road Corridor Project	\$	1,500,000
Cary Road at Main Street (Algonquin) Roundabout	\$	2,000,000
County-Wide Traffic Counts	\$	215,000
County-Wide Signal Timing Review	\$	150,000
Lakewood Road Corridor Project	\$	5,100,000
Main Street Extension	\$	1,500,000
Randall Road Operational and Capacity Changes	\$	46,789,889
TOTALS	\$	57,254,889
Annual Average	\$	11,450,978



Figure 20: Randall and Algonquin Intersection

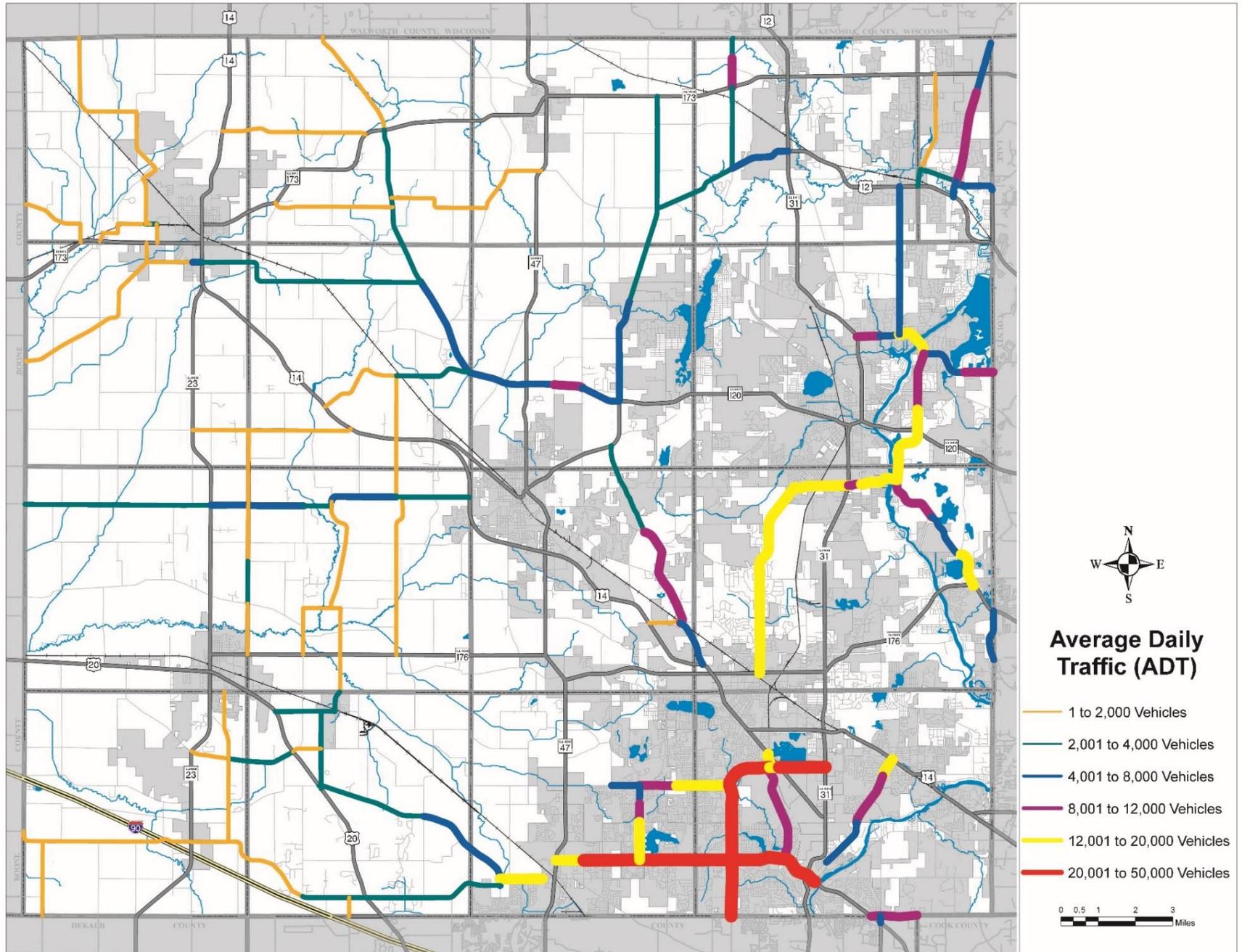


Figure 21: Average Daily Traffic of County Roadways in 2015

Ackman Road Corridor Project

Title	Ackman Road Corridor Project		
Scope of Work	Intersection	Municipality	Lakewood, Lake in the Hills & Crystal Lake
Category	Modernization	Board District	District 2 and District 5
Lead Agency	McHenry County DOT	Total Cost	\$1,500,000
Project ID	N/A	Website	https://www.mchenrycountyil.gov/courty-government/departments-i-z/transportation/future-construction/ackmanroad
Limits	Haligus Road to Randall Road		
Description	This project will address safety and operational issues along the Ackman Road corridor. Two issues have been identified - a lack of bicycle and pedestrian infrastructure along the corridor, and vehicle turning conflicts at the Huntley, Swanson and Redtail intersections. This project will look to add bicycle and pedestrian accommodations and provide for safe vehicle travel along Ackman Road.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Haligus to Randall	FEAS.	County Option MFT	\$295,859							\$0
	Total Feasibility		\$295,859							\$0
	ENGR1	RTA Sales Tax			\$500,000					\$500,000
	Total Engineering 1				\$500,000					\$500,000
	ENGR2	RTA Sales Tax					\$500,000			\$500,000
	Total Engineering 2						\$500,000			\$500,000
	ROW	County Option MFT					\$500,000			\$500,000
	Total Right of Way						\$500,000			\$500,000
	CONST	RTA Sales Tax						\$5,000,000		\$0
	Total Construction							\$5,000,000		\$0
	CE	RTA Sales Tax						\$500,000		\$0
	Total CE							\$500,000		\$0
Total Programmed				\$0	\$500,000	\$0	\$1,000,000	\$0		\$1,500,000

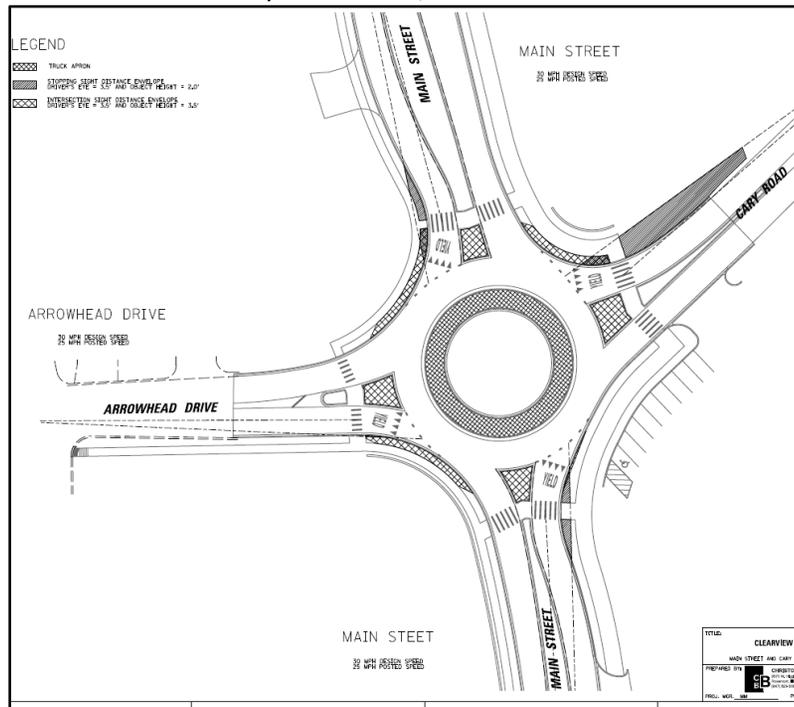
Total County Cost: \$1,500,000



Cary Road at Main Street (Algonquin) Roundabout

Title	Cary Road at Main Street (Algonquin) Roundabout				Municipality	Village of Algonquin					
Scope of Work	Intersection				Board District	District 1					
Category	Modernization				Total Cost	\$2,000,000					
Lead Agency	Village of Algonquin				Website	N/A					
Project ID	N/A										
Limits	Cary Road at Main Street										
Description	This project is being led by the Village of Algonquin. The Village will construct a roundabout at the intersection of Main Street and Cary Road. Three of the four legs of the intersection are under the jurisdiction of the Village, while one leg is under the jurisdiction of McHenry County.										
Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total	
Roundabout	CONST	County MFT		\$500,000						\$500,000	
	CONST	Village of Algonquin		\$1,500,000						\$1,500,000	
		Total Construction		\$2,000,000						\$2,000,000	
		Total Programmed		\$2,000,000	\$0	\$0	\$0	\$0		\$2,000,000	

Total County Cost: \$500,000



County-Wide Traffic Counts

<i>Title</i>	County-Wide Traffic Counts				<i>Municipality</i>	Various Municipalities					
<i>Scope of Work</i>	Planning				<i>Board District</i>	All Districts					
<i>Category</i>	Modernization				<i>Total Cost</i>	\$215,000					
<i>Lead Agency</i>	McHenry County DOT				<i>Website</i>	www.co.mchenry.il.us/county-government/departments-j-z/transportation/resources/traffic-counts					
<i>Project ID</i>	N/A										
<i>Limits</i>	McHenry County										
<i>Description</i>	This funding is for traffic counts to be taken on County Highways every two years. These traffic counts are posted on the County website at www.co.mchenry.il.us/county-government/departments-j-z/transportation/resources/traffic-counts .										

Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
County-wide	ENGR	County Option MFT	\$0	\$0	\$105,000	\$0	\$110,000	\$0	\$115,000	\$215,000
		Total Engineering	\$0	\$0	\$105,000	\$0	\$110,000	\$0	\$115,000	\$215,000
		Total Programmed		\$0	\$105,000	\$0	\$110,000	\$0		\$215,000

Total County Cost: \$215,000

County-Wide Signal Timing Study

<i>Title</i>	County-Wide Signal Timing Review				<i>Municipality</i>	Various Municipalities					
<i>Scope of Work</i>	Planning				<i>Board District</i>	All Districts					
<i>Category</i>	Modernization				<i>Total Cost</i>	\$150,000					
<i>Lead Agency</i>	McHenry County DOT				<i>Website</i>	www.co.mchenry.il.us/county-government/departments-j-z/transportation/resources/traffic-counts					
<i>Project ID</i>	N/A										
<i>Limits</i>	McHenry County										
<i>Description</i>	This funding is for a study of the County's traffic signal timing in an effort to optimize the performance of the transportation network.										

Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
County-wide	ENGR	County Option MFT	\$0	\$0	\$100,000	\$0	\$50,000	\$0	\$100,000	\$150,000
		Total Engineering	\$0	\$0	\$100,000	\$0	\$50,000	\$0	\$100,000	\$150,000
		Total Programmed		\$0	\$100,000	\$0	\$50,000	\$0		\$150,000

Total County Cost: \$150,000

Lakewood Road Corridor Complete Streets Project

Title	Lakewood Road Corridor Project		Municipality	Village of Lake in the Hills						
Scope of Work	Operational Improvements		Board District	District 5						
Category	Modernization		Total Cost	\$3,900,000						
Lead Agency	McHenry County DOT		https://www.mchenrycountyil.gov/county-government/departments-i-z/transportation/future-construction/lakewoodroad							
Project ID	N/A		Website	https://www.mchenrycountyil.gov/county-government/departments-i-z/transportation/future-construction/lakewoodroad						
Limits	Lakewood Road, from Algonquin Road to Ackman Road									
Description	This project will provide motor vehicle operational improvements to the Lakewood Road corridor and add accommodations for bicyclists and pedestrians.									
Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Lakewood Road Corridor	ENGR1	County Option MFT	\$183,000							\$0
		County Matching	\$500,000							\$0
		Lake in the Hills	\$50,000							\$0
		Total Engineering 1	\$733,000							\$0
	ENGR2	RTA Sales Tax			\$400,000					\$400,000
		Lake in the Hills			\$50,000					\$50,000
		Total Engineering 2			\$450,000					\$450,000
	ROW	RTA Sales Tax			\$250,000					\$250,000
		Total Right of Way			\$250,000					\$250,000
	CONST	County Option MFT					\$900,000	\$0		\$900,000
		County MFT					\$0	\$600,000		\$600,000
		RTA Sales Tax					\$0	\$2,600,000		\$2,600,000
		Total Construction					\$900,000	\$2,000,000		\$4,100,000
	CE	RTA Sales Tax				\$100,000	\$200,000			\$300,000
		Total Construction Engineering				\$100,000	\$200,000			\$300,000
		Total Programmed			\$700,000	\$0	\$1,000,000	\$2,200,000		\$5,100,000

Total County Cost: \$5,050,000

Local Share: \$50,000



Main Street Extension (West of Huntley) (TIP#11-00-0016)

Title	Main Street (Huntley) Extension		
Scope of Work	New Roadway	Municipality	Village of Huntley
Category	Expansion	Board District	District 6
Lead Agency	McHenry County DOT	Total Cost	\$1,500,000
Project ID	TIP # 11-00-0016	Website	N/A
Limits	Harmony Road to Main Street		
Description	This funding is to design and construct an extension of Main Street in Huntley west to connect with Harmony Road. Temporary signals were installed in 2014 at Marengo and Harmony Road and Marengo and Hemmer Road to address traffic operation concerns in this area.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Main Street Extension	ENGR	Motor Fuel Tax	\$389,174							\$0
	ENGR	County Option MFT	\$434,439							\$0
		Total Engineering	\$823,613							\$0
	ENGR1	County Matching			\$500,000					\$500,000
		Total Engineering 1			\$500,000					\$500,000
	ENGR2	County Option MFT				\$500,000				\$500,000
		Total Engineering 2				\$500,000				\$500,000
	ROW	County Option MFT				\$500,000				\$500,000
		Total Right of Way				\$500,000				\$500,000
	CONST	RTA Sales Tax						\$4,000,000		\$0
		Total Construction						\$4,000,000		\$0
	CE	RTA Sales Tax						\$400,000		\$0
		Total Construction Engineering						\$400,000		\$0
		Total Programmed		\$0	\$500,000	\$0	\$1,000,000	\$0		\$1,500,000

Total County Cost: \$1,500,000



Randall Road Operational and Capacity Changes (TIP#11-03-0018)

Title Randall Road Operational and Capacity Changes

Scope of Work Add Lanes

Category Expansion

Lead Agency McHenry County DOT

Project ID TIP # 11-03-0018

Limits Ackman Road to Harnish Drive

Description This project is to be constructed in two stages (from South to North): 1) Harnish Drive to Acorn Lane/Polaris Drive, including the Randall/Algonquin intersection; and 2) Acorn Lane/Polaris Drive to Ackman Road. As the current cost estimates are beyond the County’s ability to fund the entire project, the decision was made to construct the southern segment between Harnish Drive and Acorn Lane/Polaris Drive first, including the Randall/Algonquin intersection. As a result of the State of Illinois Capital Bill which was approved earlier this year and increased the MFT, the northern segment (stage 2) has been moved into the Program and is targeting construction in 2023 and 2024.

Municipality Lake in the Hills, Algonquin, and Crystal Lake

Board District District 1 and District 2

Total Cost \$46,789,889

Website <http://www.randallroad.info/>

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Randall Road	ENGR1	County MFT	\$1,300,470	\$500,000			Stage 1 - Southern Segment (orange)			\$500,000
	ENGR1	Federal Funds	\$1,565,723				Stage 2 - Northern Segment (blue)			\$0
Total Engineering 1			\$2,866,193	\$500,000						\$500,000
	ENGR2	County MFT	\$2,500,000		\$500,000					\$500,000
	ENGR2	RTA Sales Tax	\$6,600,000							\$0
Total Engineering 2			\$9,100,000		\$500,000					\$500,000
	ROW	County Option MFT	\$10,000,000		\$2,000,000					\$2,000,000
	ROW	County Matching	\$4,750,000		\$500,000					\$500,000
	ROW	RTA Sales Tax	\$5,750,000		\$2,500,000					\$2,500,000
	ROW	County MFT	\$0	\$1,000,000						\$1,000,000
Total Right of Way			\$20,500,000	\$1,000,000	\$5,000,000					\$6,000,000
	UTIL	County Matching	\$260,000			\$300,000				\$300,000
Total Utility Relocation Cost						\$300,000				\$300,000
	CONST	RTA Sales Tax	\$8,614,542	\$4,130,515				\$3,200,000		\$7,330,515
	CONST	County Option MFT	\$5,000,000					\$1,800,000		\$1,800,000
	CONST	County Matching		\$2,000,000				\$1,100,000		\$3,100,000
	CONST	County MFT					\$8,000,000	\$4,100,000		\$12,100,000
	CONST	Federal CMAQ	\$8,219,200	\$8,219,200						\$8,219,200
	CONST	Federal HSIP		\$269,973						\$269,973
	CONST	Federal STP - C	\$9,885,458				\$1,500,000			\$1,500,000
Total Construction			\$8,614,542	\$14,619,688			\$9,500,000	\$10,200,000		\$34,319,688
	CE	RTA Sales Tax	\$2,535,000	\$1,735,000	\$935,201		\$2,500,000			\$5,170,201
Total Construction Engineering			\$2,535,000	\$1,735,000	\$935,201		\$2,500,000			\$5,170,201
Total Programmed				\$17,854,688	\$6,435,201	\$300,000	\$12,000,000	\$10,200,000		\$46,789,889

Total County Cost: \$36,800,716

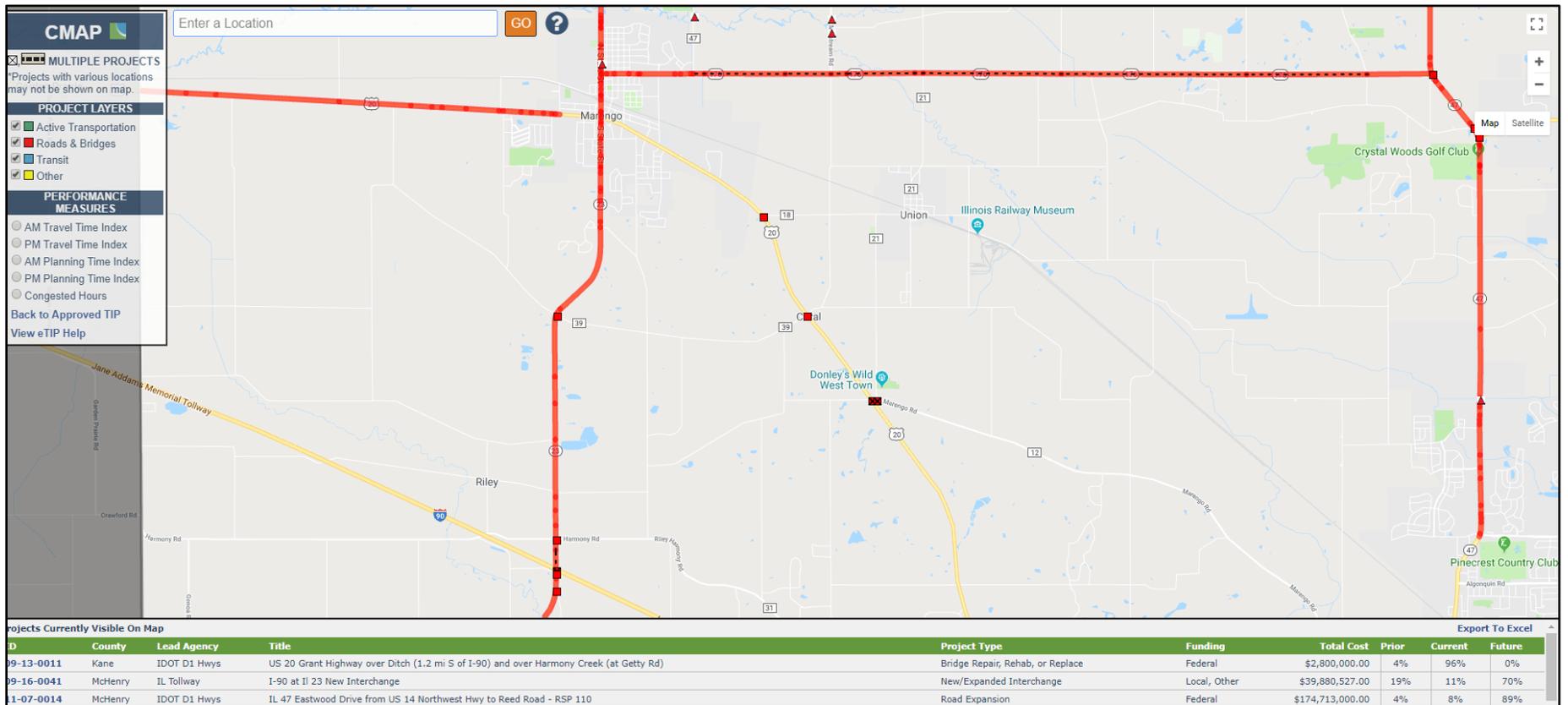
Total Federal Share: \$9,989,173

7. State Highway Program

Operational and capacity changes to the County Highway system are best realized when coordinated with other improvements to the transportation network. In particular, the State Highways maintained by the Illinois Department of Transportation (IDOT) form the backbone of McHenry County's transportation network and are therefore vital to the efficient movement of goods and persons throughout the County. Between 2020 and 2024, \$15.3 million has been programmed for State Highway improvements. Of that amount, \$5.4 million is programmed from County sources.

State Highway Program	2020-2024 Programmed Costs
Illinois Route 23 and I-90 Jane Addams Interchange Project	\$5,400,000
Illinois Route 176 at Nish Road Intersection Project	\$1,500,000
U.S. Route 14 at Hartland Road Intersection Project	\$1,000,000
U.S. Route 20 at W. Union/Coral/Marengo/Union/Beck Road Intersection Project	\$7,399,000
TOTALS	\$15,299,000
Annual Average	\$3,059,800

Figure 23: State Projects in the Region's TIP



Illinois Route 23 and I-90 Interchange Project

<i>Title</i>	Illinois Route 23 and Interstate 90 Interchange Project		
<i>Scope of Work</i>	Interchange	<i>Municipality</i>	City of Marengo
<i>Category</i>	Expansion	<i>Board District</i>	District 6
<i>Lead Agency</i>	McHenry County DOT	<i>Total Cost</i>	\$5,400,000
<i>Project ID</i>	TIP # 09-16-0041	<i>Website</i>	https://www.illinoistollway.com/projects/jane-addams/illinois-route-23-bridge-project
<i>Limits</i>	Harmony Road to Coon Creek Road		
<i>Description</i>	This funding from McHenry County is for the local portion of total costs to add an interchange at Illinois Route 23 and the Jane Addams Memorial Tollway (I-90) in the City of Marengo. The cost share arrangement is laid out in the Illinois Tollway Interchange and Roadway Cost Share Policy. This project will also add a roundabout at the intersection of Illinois Route 23 and Harmony Road, just north of the interchange location. Once built, the interchange will likely increase traffic traveling along Illinois Route 23 both north and south of I-90. As identified in the McHenry County 2040 Long Range Transportation Plan, it is imperative that the Illinois Route 23 corridor is planned and developed as a regional thoroughfare, allowing for the efficient movement of people and goods throughout McHenry County. This would include a bypass of the City of Marengo (project M6 in the Plan) and preservation of right of way along the Illinois Route 23 corridor between the Cities of Marengo and Harvard (project B18 in the Plan).		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
IL23 & I-90 Interchange	PRE ENGR	City of Marengo	\$300,000							\$0
	ENGR1	County Option MFT	\$1,680,667							\$0
		<i>Total Engineering 1</i>	\$1,980,667							\$0
	ENGR2	County Matching	\$1,266,743							\$0
		<i>Total Engineering 2</i>	\$1,266,743							\$0
	ROW	RTA Sales Tax	\$62,500							\$0
	ROW	State of Illinois	\$62,500							\$0
	ROW	Illinois Tollway Authority	\$1,049,602							\$0
		<i>Total Right of Way</i>	\$1,174,602							\$0
	CONST	RTA Sales Tax	\$1,000,000	\$2,000,000	\$3,400,000					\$5,400,000
	CONST	State of Illinois	\$7,530,830							\$0
	CONST	Illinois Tollway Authority	\$22,010,788							\$0
		<i>Total Construction</i>	\$22,010,788	\$2,000,000	\$3,400,000					\$5,400,000
	CE	Illinois Tollway Authority	\$2,675,000							\$0
		<i>Total Construction Engineering</i>	\$2,675,000							\$0
		<i>Total Programmed</i>		\$2,000,000	\$3,400,000					\$5,400,000

Total County Cost: \$5,400,000



Figure 24: I-90 and IL 23 Interchange and Roundabout at IL 23 and Harmony Road

Illinois Route 176 and Nish Road Intersection Project (TIP#11-09-0058)

Title	Illinois Route 176 at Nish Road Intersection Improvements		
Scope of Work	Intersection Improvements	Municipality	Unincorporated Nunda Township
Category	Modernization	Board District	
Lead Agency	Illinois Department of Transportation	Total Cost	\$1,500,000
Project ID	TIP ID 11-09-0058	Website	N/A
Limits	Intersection of IL 176 and Nish Road		
Description	This project includes traffic signal installation, channelization and the addition of bicycle and pedestrian accommodations to IL 176. The County's programmed share is for the local match required for a shared use path, as detailed in the County's 2018 Active Transportation Policy (R-201803-82-075).		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
IL 176 at Nish Road	ROW	State of Illinois	\$80,000							\$0
		Total Right of Way	\$80,000							\$0
	CONST	State of Illinois			\$292,000					\$292,000
		Federal Funds			\$1,168,000					\$1,168,000
		Nunda Township			\$20,000					\$20,000
		RTA Sales Tax Funds			\$20,000					\$20,000
		Total Construction			\$1,500,000					\$1,500,000
		Total Programmed			\$1,500,000					\$1,500,000

Total County Cost: \$20,000

Total Federal Share: \$1,168,000

Total State of Illinois Share: \$292,000



IL 176 AT NISH ROAD CRASH DATA (2009 - 2014)

Crash Type	Number of Crashes	Injury Type				Fatalities (K)	Total Injury Crashes
		A	B	C	O		
Turning	9	0	1	1	7	0	2
Rear End	10	0	1	2	7	0	3
Head On	2	0	2	0	0	0	2
Fixed Object	2	0	1	0	1	0	1
Sideswipe Same Direction	1	0	0	0	1	0	0
Sideswipe Opposite Direction	1	0	1	0	0	0	1
Other Non-Collision	1	0	0	0	1	0	0
Total	26	0	6	3	17	0	9

U.S. Route 14 at Hartland/Hughes Road Intersection Project

Title	U.S. 14 at Hartland/Hughes Road Intersection Project		
Scope of Work	Intersection	Municipality	Unincorporated Hartland Township
Category	Modernization	Board District	District 6
Lead Agency	Illinois Department of Transportation	Total Cost	\$1,000,000
Project ID	N/A	Website	N/A
Limits	Intersection of U.S. Route 14 and Hartland/Hughes Road		
Description	Due to increasing safety concerns, the State of Illinois is planning to undertake an intersection project at U.S. Route 14 and Hartland/Hughes Road, west of Woodstock. Because Hartland and Hughes are County roadways, there may be a cost share required by MCDOT.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
	ENGR1	State of Illinois			\$300,000					\$300,000
		County MFT			\$50,000					\$50,000
		<i>Total Engineering 1</i>			\$350,000					\$350,000
	ENGR2	State of Illinois					\$300,000			\$300,000
		County MFT					\$50,000			\$50,000
		<i>Total Engineering 2</i>					\$350,000			\$350,000
	ROW	State of Illinois					\$400,000			\$400,000
		<i>Total Right of Way</i>					\$400,000			\$400,000
	CONST	State of Illinois						\$2,800,000		\$0
	CONST	County MFT						\$700,000		\$0
		<i>Total Construction</i>						\$3,500,000		\$0
	CE	State of Illinois						\$300,000		\$0
		<i>Total Construction Engineering</i>						\$300,000		\$0
		Total Programmed								
				\$0	\$350,000	\$0	\$750,000	\$0		\$1,100,000

Total County Cost: \$100,000

Total Federal Share: TBD

TBD

Total State of Illinois Share: \$1,000,000

\$1,000,000



U.S. Route 20 at West Union Road, Coral Road, and Marengo/Union/Beck (TIP#11-13-0001)

Title	US 20 at 1)West Union Rd and at Coral Rd2)At Creek (0.4 MI W of Beck Rd.) 3) At Marengo-Beck/South Union Road		
Scope of Work	Intersection	Municipality	Unincorporated Coral Township
Category	Modernization	Board District	District 6
Lead Agency	Illinois Department of Transportation	Total Cost	\$7,399,000
Project ID	TIP # 11-13-0001	Website	http://www.idot.illinois.gov/projects/US20-at-Marengo
Limits	Along U.S. 20 southeast of Marengo		
Description	This funding is to pay for the County's portion of the improvements made to U.S. Route 20 at West Union Rd and at Coral Rd, at a creek (0.4 MI W of Beck Rd.), and at Marengo-Beck/South Union Road. The Illinois Department of Transportation is looking at installing roundabouts at the U.S. 20/ Marengo /South Union intersections for safety and operational improvements. Channelization will occur at the West Union and Coral Rd intersections.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
U.S. Route 20 Intersections	ENGR2	State of Illinois	\$770,000							\$0
		<i>Total Engineering 2</i>	\$770,000							\$0
	ROW	Federal HSIP	\$1,033,000							\$0
	ROW	State of Illinois	\$331,000							\$0
		<i>Total Right of Way</i>	\$1,364,000							\$0
	CONST	Federal HSIP		\$5,193,000						\$5,193,000
	CONST	State of Illinois		\$900,000						\$900,000
	CONST	County MFT		\$15,000						\$15,000
	CONST	Federal NHPP		\$1,291,000						\$1,291,000
		<i>Total Construction</i>		\$7,399,000						\$7,399,000
	Total Programmed					\$7,399,000				\$7,399,000

Total County Cost: \$15,000

Total Federal Share: \$6,484,000

Total State of Illinois Share: \$900,000

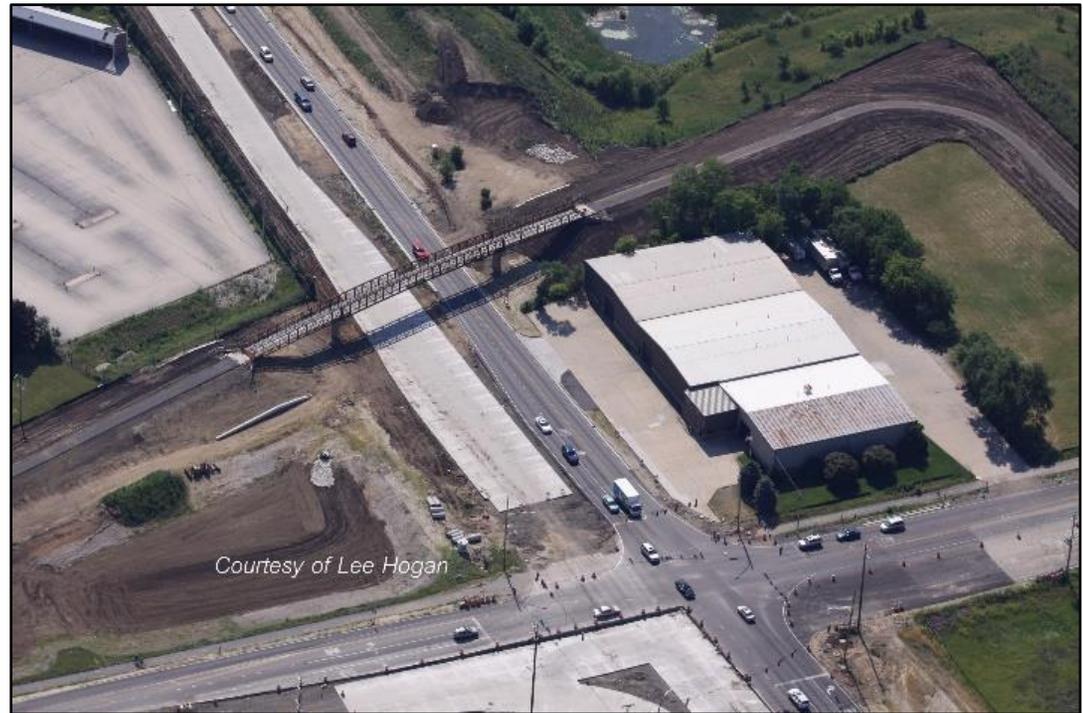


8. Bicycle, Pedestrian, and Transit Program

Bus and commuter rail operations in McHenry County provide efficient connections to the metropolitan region. These operations also provide much needed transportation services to those living in the County. To date, many of these needs remain unmet. As indicated in the County's *2040 Plan*, the lack of sidewalks and comfortable bicycle accommodations present a great challenge for transit operations in the County. Between 2020 and 2024, \$34.3 million is programmed for bicycle, pedestrian, and transit projects (\$21.4 million from County sources) to improve bicycle and pedestrian accessibility and access to transit services.



Bicycle, Pedestrian, and Transit Program Summary	2020-2024 Programmed Costs
Airport/McGuire Road Bike/Ped Accommodations	\$2,070,000
Bull Valley Road Bike/Ped Accommodations	\$1,670,000
Cary Road Bike/Ped Accommodations	\$1,550,000
Countywide Bike Share Program	\$550,000
MCRide Dial-a-Ride Pace Contract	\$15,167,553
Metra Service Enhancements	\$12,000,000
Randall Road Bike/Ped Accommodations	\$200,000
Subregional Bicycle and Pedestrian Plan	\$200,000
Volunteer Driver and Transit Enhancement Program	\$875,000
TOTAL	\$34,282,553
Annual Average	\$6,856,510.60



Airport/McGuire Road Bicycle and Pedestrian Accommodations

Title	Airport/McGuire Road Bicycle and Pedestrian Accommodations		
Scope of Work	Bike Path		Municipality City of Harvard
Category	Modernization		Board District District 6
Lead Agency	McHenry County DOT		Total Cost \$2,070,000
Project ID	N/A		Website N/A
Limits	Shadow Drive to Rush Creek Conservation Area (1.4 miles)		
Description	This project will add bicycle and pedestrian accommodations along Airport and McGuire Roads from Shadow Drive to the Rush Creek Conservation Area in the City of Harvard. This project would also install a pedestrian crossing at the intersection of U.S. 14. Federal Transportation Alternatives Program (TAP) and/or State Illinois Transportation Enhancement Program (ITEP) funding will be pursued to reduce the local cost by 80%.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Airport/McGuire Road Bike Path	ENGR1	RTA Sales Tax		\$400,000						\$400,000
		<i>Total Engineering 1</i>		\$400,000						\$400,000
	ENGR2	City of Harvard				\$40,000				\$40,000
	ENGR2	RTA Sales Tax				\$160,000				\$160,000
		<i>Total Engineering 2</i>				\$200,000				\$200,000
	ROW	RTA Sales Tax				\$150,000				\$150,000
		<i>Total Right of Way</i>				\$150,000				\$150,000
	CONST	City of Harvard						\$240,000		\$240,000
	CONST	RTA Sales Tax						\$960,000		\$960,000
		<i>Total Construction</i>						\$1,200,000		\$1,200,000
	CE	City of Harvard						\$24,000		\$24,000
	CE	RTA Sales Tax						\$96,000		\$96,000
		<i>Total Construction Engineering</i>						\$120,000		\$120,000
		Total Programmed		\$400,000	\$0	\$350,000	\$0	\$1,320,000		\$2,070,000

Total County Cost: \$1,766,000

City of Harvard - Local Share: \$304,000

**Potential Federal Funding:* \$1,336,000



Bull Valley Road Bicycle and Pedestrian Accommodations

Title	Bull Valley Road Bicycle and Pedestrian Accommodations		
Scope of Work	Bike Path	Municipality	City of McHenry
Category	Modernization	Board District	District 3
Lead Agency	City of McHenry	Total Cost	\$1,670,000
Project ID	N/A	Website	N/A
Limits	Prairie Trail to Illinois Route 31		
Description	This project will add a bike path along Bull Valley Road from the Prairie Trail to Illinois Route 31 in the City of McHenry. This project would also install a pedestrian crossing across the Union Pacific Railroad immediately east of the Prairie Trail and upgrade another crossing across Bull Valley Road. Federal Transportation Alternatives Program (TAP) and/or State Illinois Transportation Enhancement Program (ITEP) funding will be pursued to reduce the local cost by 80%.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Bull Valley Road Bike Path	ENGR1	City of McHenry	\$37,500							\$0
	ENGR1	RTA Sales Tax	\$150,000							\$0
	Total Engineering 1			\$187,500						
	ENGR2	City of McHenry		\$40,000						\$40,000
	ENGR2	RTA Sales Tax		\$160,000						\$160,000
	Total Engineering 2			\$200,000						\$200,000
	ROW	RTA Sales Tax		\$150,000						\$150,000
	Total Right of Way			\$150,000						\$150,000
	CONST	City of McHenry				\$240,000				\$240,000
	CONST	RTA Sales Tax				\$960,000				\$960,000
	Total Construction					\$1,200,000				\$1,200,000
	CE	City of McHenry				\$24,000				\$24,000
	CE	RTA Sales Tax				\$96,000				\$96,000
	Total Construction Engineering					\$120,000				\$120,000
Total Programmed				\$350,000	\$0	\$1,320,000	\$0	\$0		\$1,670,000

Total County Cost: \$1,366,000

City of McHenry - Local Share: \$304,000

*Potential Federal Funding: \$1,336,000



Cary Road Bicycle and Pedestrian Accommodations

Title	Cary-Algonquin Road Bicycle and Pedestrian Accommodations		
Scope of Work	Shared-Use Path	Municipality	Villages of Algonquin and Cary
Category	Modernization	Board District	District 2
Lead Agency	McHenry County DOT	Total Cost	\$1,550,000
Project ID	N/A	Website	N/A
Limits	North Main Street (Algonquin) to Fox Trails Drive South (Cary)		
Description	This project will add a shared-use path along Cary-Algonquin Road connecting residents in Cary and Algonquin with the McHenry County Conservation District's Fox Bluff Conservation Area.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Cary-Algonquin Rd Bike Path	ENGR1	Village of Cary			\$20,000					\$20,000
	ENGR1	Village of Algonquin			\$20,000					\$20,000
	ENGR1	County Matching Fund			\$160,000					\$160,000
	Total Engineering 1				\$200,000					\$200,000
	ENGR2	RTA Sales Tax					\$150,000			\$150,000
	Total Engineering 2						\$150,000			\$150,000
	ROW	RTA Sales Tax					\$100,000			\$100,000
	Total Right of Way						\$100,000			\$100,000
	CONST	RTA Sales Tax						\$1,000,000		\$1,000,000
	Total Construction							\$1,000,000		\$1,000,000
CE	RTA Sales Tax						\$100,000		\$100,000	
Total Construction Engineering							\$100,000		\$100,000	
Total Programmed				\$0	\$200,000	\$0	\$250,000	\$1,100,000		\$1,550,000

Total County Cost: \$1,510,000

Villages of Algonquin & Cary: \$40,000

*Potential Federal Funding: \$1,000,000



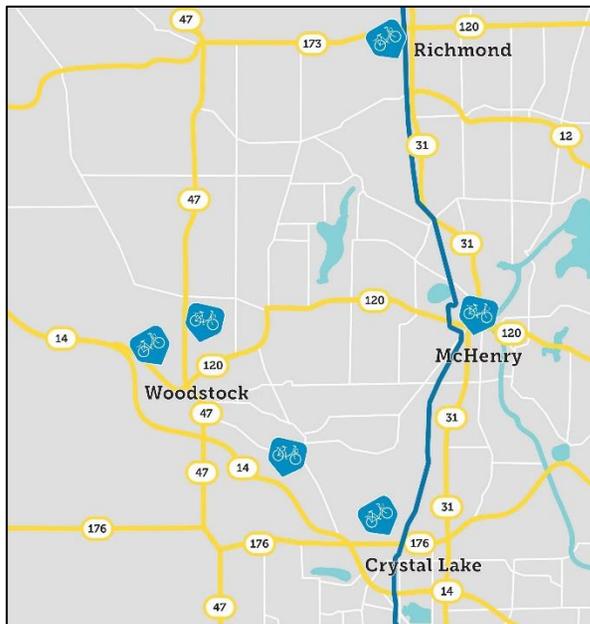
Countywide Bike Share Program

Title	Countywide Bike Share Program (BikeMC) Sponsored by Visit McHenry County		
Scope of Work	Bike Share Program	Municipality	All Municipalities
Category	Expansion	Board District	All Board Districts
Lead Agency	Visit McHenry County	Total Cost	\$550,000
Project ID	N/A	Website	http://visitmchenrycounty.com/bikemc
Limits	Countywide		
Description	Visit McHenry County implemented a bike share program in McHenry County in 2019. McHenry County is assisting this effort with a \$10,000 per year contribution made through the Division of Transportation. This will be matched by an equal contribution by Visit McHenry County and together this funding will reduce the cost for partner municipalities. The funding shown below assumes ten bike share stations will be located throughout the County, focused primarily on Metra Stations, historic downtowns, and the Prairie Trail.		

Project	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Countywide Bike Share	TRAN	RTA Sales Tax	\$10,000	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0	\$30,000
	TRAN	Visit McHenry County	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000
	TRAN	Partner Municipalities	\$90,000	\$90,000	\$90,000	\$90,000	\$100,000	\$100,000	\$100,000	\$470,000
Total Transportation			\$110,000	\$110,000	\$110,000	\$110,000	\$110,000	\$110,000	\$110,000	\$550,000
Total Programmed				\$110,000	\$110,000	\$110,000	\$110,000	\$110,000		\$550,000

Total County Cost: \$30,000

Visit McHenry County Share: \$50,000



MCRide Dial-a-Ride Pace Contract

Title	MCRide Dial-a-Ride Pace Contract	Municipality	Various Municipalities
Scope of Work	Paratransit	Board District	All Board Districts
Category	Expansion	Total Cost	\$15,167,553
Lead Agency	Pace Suburban Bus	Website	www.co.mchenry.il.us/county-government/departments-j-z/transportation/transit-services/mcride-dial-a-ride
Project ID	TIP # 13-14-0014 (Section 5310)		
Limits	MCRide Service Area		
Description	MCRide is a demand-response transit partnership with Pace. In 2018, over 111,000 total trips were taken by over 3,000 individuals. A Federal Section 5310 grant was used to offset operational costs. More information regarding this program can be found at www.co.mchenry.il.us/county-government/departments-j-z/transportation/transit-services/mcride-dial-a-ride .		

Project	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
MCRide										
Dial-a-Ride	TRAN	Rider Fares	\$215,000	\$220,000	\$310,000	\$315,000	\$320,000	\$325,000	\$330,000	\$1,490,000
	TRAN	Pace Suburban Bus Subsidy	\$1,157,553	\$1,157,553	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$1,200,000	\$5,957,553
	TRAN	Federal Section 5310 Funding	\$500,000	\$600,000	\$800,000	\$810,000	\$820,000	\$830,000	\$840,000	\$3,860,000
	TRAN	Municipalities and Townships	\$230,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000
	TRAN	RTA Sales Tax	\$270,000	\$350,000	\$800,000	\$810,000	\$820,000	\$830,000	\$840,000	\$3,610,000
		Total Public Transportation	\$2,372,553	\$2,577,553	\$3,110,000	\$3,135,000	\$3,160,000	\$3,185,000	\$3,210,000	\$15,167,553
		Total Programmed		\$2,577,553	\$3,110,000	\$3,135,000	\$3,160,000	\$3,185,000		\$15,167,553

Total County Cost: \$3,610,000

Total Federal Share: \$3,860,000

Total Pace Bus Share: \$5,957,553



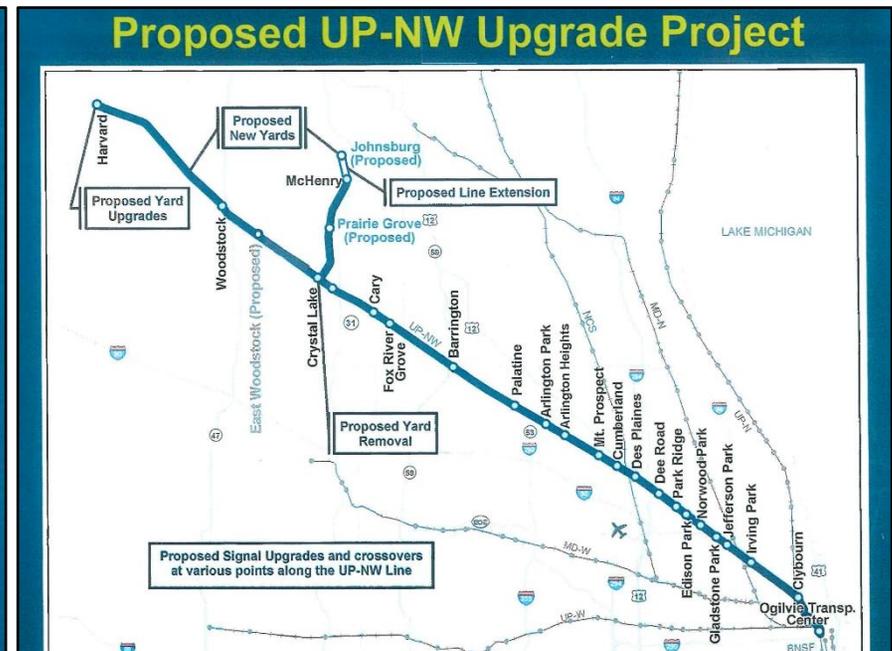
Metra Service Enhancements

Title	Metra Service Enhancements		Municipality	All Municipalities						
Scope of Work	Public Transportation		Board District	All Board Districts						
Category	Expansion		Total Cost	\$12,000,000						
Lead Agency	Metra		Website	https://metrarail.com/sites/default/files/assets/about-metra/studies/up-nw_aa_final_report_october2007.pdf						
Project ID	TIP # 18-07-0670									
Limits	Metra Union Pacific Northwest (UP-NW) Line									
Description	The McHenry County 2040 Long Range Transportation Plan identified the upgrades of the Union Pacific Northwest Metra line to be the highest priority project in the Plan. Any eventual service expansion by Metra will require significant local (State, County, Municipal) funding to match Federal funds for the project. An investment of \$4,000,000 per year, starting in 2022, represents the first annual payment towards a total County contribution of \$20,000,000. Together with additional funds from Cook County, the City of Chicago and other municipalities along the rail line, as well as a contribution from the State of Illinois, a large local match can be used to leverage the necessary Federal funds to complete the project. A description of the UP-NW Line New Starts Project is shown below.									
Project	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Metra Service Enhancements	TRAN	RTA Sales Tax		\$0	\$0	\$4,000,000	\$4,000,000	\$4,000,000	\$8,000,000	\$12,000,000
		Total Transportation		\$0	\$0	\$4,000,000	\$4,000,000	\$4,000,000	\$8,000,000	\$12,000,000
		Total Programmed		\$0	\$0	\$4,000,000	\$4,000,000	\$4,000,000		\$12,000,000

Total County Cost: \$12,000,000

UP-NW Line New Start Project Improvements

- **Yards**
 - Provide new layover yard facilities at Woodstock and Johnsburg
 - Modernized facilities for cleaning, washing, inspection, and servicing of toilets
- **Stations**
 - Johnsburg, Prairie Grove & East Woodstock
 - Other station improvements to accommodate increases in passenger boardings
- **Increase rail rolling stock fleet to support increased service**
- **Signals**
 - Signalize the entire McHenry Branch
 - Improved signals on other parts of the line
- **Schedule**
 - Increase from 17 to 24 trains in peak for CBD-bound riders
 - Increase from 4 to 8 reverse commute trains
 - 7.5 minutes average peak frequency (11 min. existing)
- **Other**
 - 35% increase in capacity
 - Employer shuttles at several stations for the “last mile”



Randall Road Bicycle and Pedestrian Accommodations

Title	Randall Road Bicycle and Pedestrian Accommodations		
Scope of Work	Shared-Use Path	Municipality	Village of Algonquin
Category	Modernization	Board District	District 1
Lead Agency	Village of Algonquin	Total Cost	\$200,000
Project ID	N/A	Website	N/A
Limits	County Line Road to Harnish Drive		
Description	This project will add a shared-use path and sidewalk along Randall Road from County Line Road to Harnish Drive in the Village of Algonquin. This project would also install pedestrian crossings at the intersection of Randall Road and County Line Road. Federal Transportation Alternatives Program (TAP) and/or State Illinois Transportation Enhancement Program (ITEP) funding will be pursued to reduce the local cost by 80%.		

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Randall Road	ENGR1	Village of Algonquin					\$40,000			\$40,000
Shared Use Path	ENGR1	RTA Sales Tax					\$160,000			\$160,000
Total Engineering 1							\$200,000			\$200,000
	ENGR2	Village of Algonquin							\$30,000	\$0
	ENGR2	RTA Sales Tax							\$120,000	\$0
Total Engineering 2									\$150,000	\$0
	ROW	RTA Sales Tax							\$40,000	\$0
Total Right of Way									\$40,000	\$0
	CONST	Village of Algonquin							\$240,000	\$0
	CONST	RTA Sales Tax							\$960,000	\$0
Total Construction									\$1,200,000	\$0
	CE	Village of Algonquin							\$24,000	\$0
	CE	RTA Sales Tax							\$96,000	\$0
Total Construction Engineering									\$120,000	\$0
Total Programmed				\$0	\$0	\$0	\$200,000	\$0		\$200,000

Total County Cost: \$160,000 Village of Algonquin - Local Share: \$40,000 *Potential Federal Funding: \$1,176,000

Subregional Bicycle and Pedestrian Plan

<i>Title</i>	McHenry County Subregional Bicycle and Pedestrian Plan										
<i>Scope of Work</i>	Planning					<i>Municipality</i>	Various Municipalities				
<i>Category</i>	Modernization					<i>Board District</i>	All Board Districts				
<i>Lead Agency</i>	McHenry County DOT					<i>Total Cost</i>	\$200,000				
<i>Project ID</i>	N/A					<i>Website</i>	N/A				
<i>Limits</i>	Countywide										
<i>Description</i>	The McHenry County Council of Mayors, with funding and staff assistance from the McHenry County Division of Transportation, received a Federal Statewide Planning and Research (SPR) grant from IDOT to update the County's Subregional Bicycle and Pedestrian Plan in 2020. The last subregional bicycle plan for McHenry County was completed in 1996.										
Location	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Countywide	CONST	RTA Sales Tax		\$40,000						\$40,000	
		IDOT SPR Grant		\$160,000						\$160,000	
				\$200,000						\$200,000	
		Total Programmed		\$200,000						\$200,000	
Total County Cost:		\$40,000	Total Federal Share:			\$160,000					

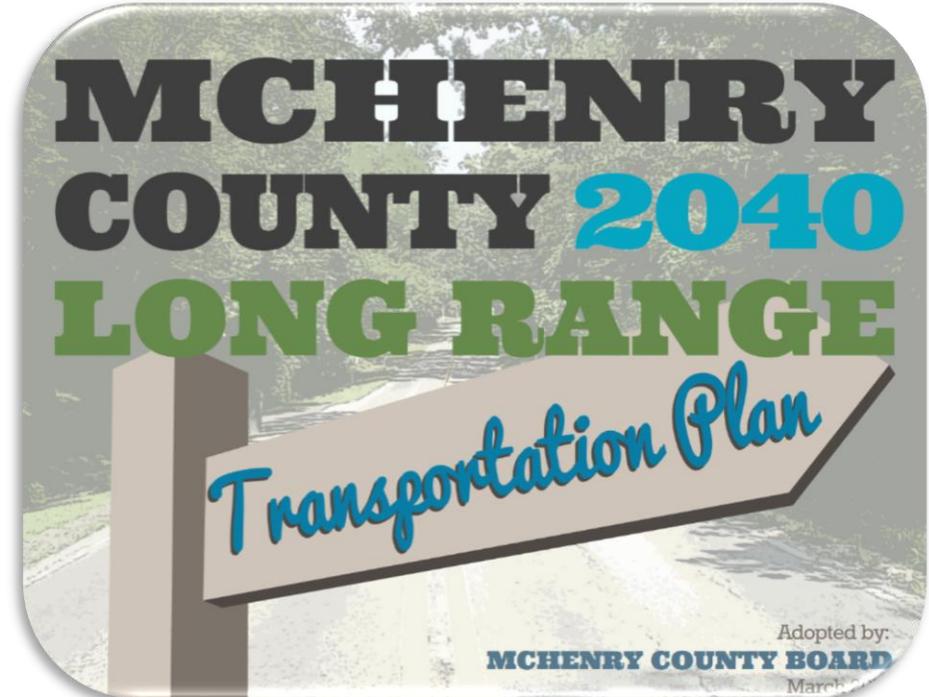
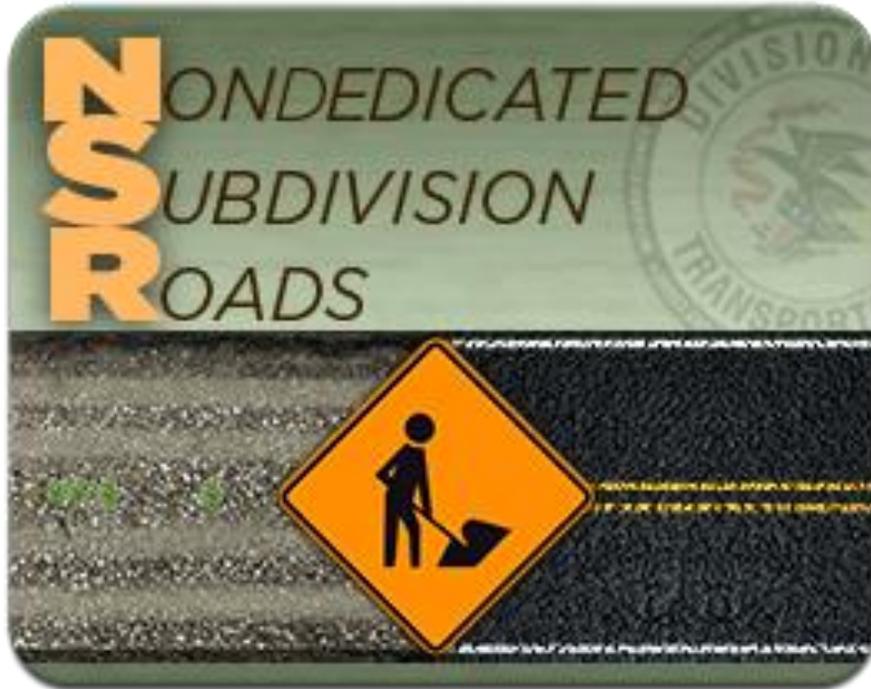
Volunteer Driver and Transit Enhancement Program

<i>Title</i>	Volunteer Driver and Transit Enhancement Program										
<i>Scope of Work</i>	Paratransit					<i>Municipality</i>	All Municipalities				
<i>Category</i>	Expansion					<i>Board District</i>	All Board Districts				
<i>Lead Agency</i>	McHenry County DOT					<i>Total Cost</i>	\$875,000				
<i>Project ID</i>	N/A					<i>Website</i>	N/A				
<i>Limits</i>	McHenry County										
<i>Description</i>	This funding from the County RTA fund is to continue funding coordination and expansion of local transit services in the County. In 2020, \$70,000 is programmed for the Senior Care Volunteer Network (SCVN), \$5,000 is for the Veterans Assistance Commission (VAC), and \$100,000 is to implement new service recommendations from the 2018 Transit Plan Update.										
Project	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
Senior Care Volunteer Net.	TRAN	RTA Sales Tax	\$60,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$350,000	
VAC	TRAN	RTA Sales Tax	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000	
Transit Plan Recommendation	TRAN	RTA Sales Tax	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000	
		Total Transportation	\$65,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$875,000	
		Total Programmed		\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$175,000	\$875,000	
Total County Cost:		\$875,000									

9. Miscellaneous Program

There are various programs, projects, and initiatives that support other programs of the McHenry County Division of Transportation. Between 2020 and 2024, approximately \$7.5 million is programmed for these types of projects.

Miscellaneous Program Summary	2020-2024 Programmed Costs
Electric Vehicle Charging Station	\$10,000
Transportation Planning Projects	\$560,000
Miller Road at IL31 Native Landscaping	\$29,200
Nondedicated Subdivision Road Construction Program	\$3,400,000
Nondedicated Subdivision Road Maintenance Program - Match	\$1,300,000
Nondedicated Subdivision Road Maintenance Program - Township IGA	\$150,000
RTA Sales Tax - Public Safety	\$1,200,000
County Engineer Salary Program	\$893,576
TOTALS	\$7,542,776
Annual Average	\$1,508,555



Electric Vehicle Charging Station

<i>Title</i>	Electric Vehicle Charging Station										
<i>Scope of Work</i>	Facility					<i>Municipality</i>	N/A				
<i>Category</i>	Modernization					<i>Board District</i>	N/A				
<i>Lead Agency</i>	McHenry County DOT					<i>Total Cost</i>	\$10,000				
<i>Project ID</i>	N/A					<i>Website</i>	N/A				
<i>Limits</i>	McHenry County DOT										
<i>Description</i>	In 2020, \$10,000 has been budgeted for the purchase and installation of an electric vehicle charging station at MCDOT. This will help to improve current employee retention and attract the next generation of environmentally-conscious employees to work for McHenry County. Both MCDOT and Valley Hi Nursing Home staff and visitors will have access to this EV charging station throughout the work day.										
Project	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total	
EV Charging Station at MCDOT	CONST	RTA Sales Tax	\$0	\$10,000	\$0	\$0	\$0	\$0	\$10,000	\$10,000	
		<i>Total Engineering</i>		\$10,000	\$0	\$0	\$0	\$0		\$10,000	
		<i>Total Programmed</i>		\$10,000	\$0	\$0	\$0	\$0		\$10,000	
Total County Cost:		\$10,000									

Transportation Planning Projects

<i>Title</i>	Transportation Planning Projects										
<i>Scope of Work</i>	Other					<i>Municipality</i>	All Municipalities				
<i>Category</i>	Preservation					<i>Board District</i>	All Board Districts				
<i>Lead Agency</i>	McHenry County DOT					<i>Total Cost</i>	\$1,260,000				
<i>Project ID</i>	N/A					<i>Website</i>	https://www.co.mchenry.il.us/county-government/departments-j-z/transportation/transportation-plans/long-range-transportation-plan				
<i>Limits</i>	Countywide										
<i>Description</i>	In 2019, the County received \$100,000 in Federal Statewide Planning and Research (SPR) funds to craft an Americans with Disabilities Act (ADA) Transition Plan. In 2020, the County received additional SPR funds to update to the County's Bicycle and Pedestrian Plan and also undertake a comprehensive Roadside Safety Review. In 2021, \$140,000 is programmed to purchase new Transportation Programming software. The funding in 2022-2023 is for consultant services needed as part of the long-range transportation planning process. At this time, an update of the long-range transportation plan is programmed to occur every 10 years.										
Project	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
	PLAN	RTA Sales Tax	\$25,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$700,000	
	PLAN	Federal UWP								\$0	
	PLAN	IDOT SPR Grant	\$100,000	\$560,000						\$560,000	
		<i>Total Planning</i>	\$125,000	\$700,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$1,260,000	
		<i>Total Programmed</i>		\$700,000	\$140,000	\$140,000	\$140,000	\$140,000		\$1,260,000	
Total County Cost:		\$700,000		Total Federal Share: \$560,000							

Charles Miller Road at Illinois 31 Native Landscaping

<i>Title</i>	Charles Miller Road at IL 31 Native Landscaping					<i>Municipality</i>	City of McHenry				
<i>Scope of Work</i>	Other					<i>Board District</i>	District 3				
<i>Category</i>	Expansion					<i>Total Cost</i>	\$29,200				
<i>Lead Agency</i>	McHenry County DOT					<i>Website</i>	N/A				
<i>Project ID</i>	N/A										
<i>Limits</i>	Miller Road and IL 31 Intersection										
<i>Description</i>	Following the Charles Miller Road Project it was determined that native vegetation that was planted as part of the project did not fully establish as required. Because of this, a contract was approved in 2017 to replant vegetation and monitor growth at the same location.										

Project	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
Miller at IL 31 Landscaping	ENGR	County Option MFT	\$128,348	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	CONST	County Option MFT	\$88,100	\$24,200	\$5,000	\$0	\$0	\$0	\$0	\$29,200
<i>Total Engineering</i>				\$24,200	\$5,000	\$0	\$0	\$0		\$29,200
Total Programmed				\$24,200	\$5,000	\$0				\$29,200

Total County Cost: \$29,200

Nondedicated Subdivision Road Construction Program

<i>Title</i>	Nondedicated Subdivision Road Construction Program										
<i>Scope of Work</i>	NSR					<i>Municipality</i>	Unincorporated McHenry County				
<i>Category</i>	Modernization					<i>Board District</i>	Various Board Districts				
<i>Lead Agency</i>	McHenry County DOT					<i>Total Cost</i>	\$3,400,000				
<i>Project ID</i>	N/A					<i>Website</i>	https://www.co.mchenry.il.us/county-government/departments-j-z/transportation/resources/nondedicated-subdivision-roads				
<i>Limits</i>	N/A										
<i>Description</i>	This funding is allocated each year for Nondedicated Subdivision Roads to help bring them into a public jurisdiction. In 2015, \$8,060,000 was allocated by the County Board for this program spread over five years. In 2020, \$1.6 million in programmed for nondedicated roads in McHenry Township. In 2021 and 2022 a total of \$1.8 million is programmed for nondedicated roads in Nunda Township.										

Segment	Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	Future FY	Total
	ENGR	County MFT		\$0	\$0	\$0	\$0	\$0	0	\$0
<i>Total Engineering</i>				\$0	\$0	\$0	\$0	\$0		\$0
	CONST	County MFT	\$6,006,166	\$0	\$900,000	\$900,000	\$0	\$0	\$0	\$1,800,000
		Matching Fund	\$0	\$1,600,000	\$0	\$0	\$0	\$0	\$0	\$1,600,000
<i>Total Construction</i>			\$6,006,166	\$1,600,000	\$900,000	\$900,000	\$0	\$0		\$3,400,000
Total Programmed				\$1,600,000	\$900,000	\$900,000	\$0	\$0		\$3,400,000

Total County Cost: \$3,400,000

Nondedicated Subdivision Road Maintenance Program – Matching Funds

<i>Title</i>	Nondedicated Subdivision Road Maintenance Program - Matching Funds										
<i>Scope of Work</i>	NSR					<i>Municipality</i>	Unincorporated McHenry County				
<i>Category</i>	Preservation					<i>Board District</i>	Various Board Districts				
<i>Lead Agency</i>	McHenry County DOT					<i>Total Cost</i>	\$1,300,000				
<i>Project ID</i>	N/A										
<i>Limits</i>	N/A										
<i>Description</i>	This funding is to match private investments committed to maintain Nondedicated Subdivision Roads in unincorporated areas of McHenry County. These efforts are coordinated with the Township Highway Commissioners. The County's contribution cannot exceed 50% of the Motor Fuel Tax funds received in the participating townships of Algonquin, Dorr, McHenry and Nunda. Each Township is required to make the private contribution. The County's match cannot exceed the Township's match.										
Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
	CONST	County MFT	\$179,643	\$260,000	\$260,000	\$260,000	\$260,000	\$260,000	\$260,000	\$1,300,000	
		<i>Total Construction</i>	\$179,643	\$260,000	\$260,000	\$260,000	\$260,000	\$260,000	\$260,000	\$1,300,000	
		<i>Total Programmed</i>		\$260,000	\$260,000	\$260,000	\$260,000	\$260,000	\$260,000	\$1,300,000	
Total County Cost:		\$1,300,000									

Nondedicated Subdivision Road Maintenance Program – Township IGAs

<i>Title</i>	Nondedicated Subdivision Road Maintenance Program - Private Contracts and/or IGA's with Townships										
<i>Scope of Work</i>	NSR					<i>Municipality</i>	Unincorporated McHenry County				
<i>Category</i>	Preservation					<i>Board District</i>	Various Board Districts				
<i>Lead Agency</i>	McHenry County DOT					<i>Total Cost</i>	\$150,000				
<i>Project ID</i>	N/A										
<i>Limits</i>	N/A										
<i>Description</i>	This funding is to maintain those Nondedicated Subdivision Roads (NSRs) that are still under the jurisdiction of the County. The County does not have sufficient, staff nor the equipment to maintain them, and therefore outside assistance is required until the NSRs can be transferred to a Township permanently.										
Segment	Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total	
	CONST	County MFT	\$72,216	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$150,000	
		<i>Total Construction</i>	\$72,216	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$150,000	
		<i>Total Programmed</i>		\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$150,000	
Total County Cost:		\$150,000									

RTA Sales Tax for Public Safety Purposes

<i>Title</i>	Use of RTA Sales Tax for Public Safety Purposes		
<i>Scope of Work</i>	Other	<i>Municipality</i>	N/A
<i>Category</i>	Modernization	<i>Board District</i>	All Board Districts
<i>Lead Agency</i>	McHenry County Administration Department	<i>Total Cost</i>	\$1,200,000
<i>Project ID</i>	N/A	<i>Website</i>	N/A
<i>Limits</i>	N/A		
<i>Description</i>	As authorized by the RTA Act, a portion of the County's Regional Transportation Authority (RTA) Sales Tax can be redirected away from transportation projects towards "public safety purposes". From 2008 to 2016, all proceeds from the RTA Sales Tax were used to improve the transportation system in McHenry County. Starting in 2016, a portion of the County's RTA Sales Tax was diverted to non-transportation "public safety" purposes such as jail security & door system upgrades (\$2.3 million), in-car video camera systems for McHenry County sheriffs (\$0.4 million), and two fire alarm systems for the County's government center and jail (\$0.3 million). In 2019 and 2020 an additional diversion of \$2.5 million will occur to replace radios for several County departments. Such public safety diversions reduce funding for transportation projects.		

Phase	Fund Source	Prior FY	2020	2021	2022	2023	2024	2025	Total
CONST	RTA Sales Tax	\$4,550,000	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$1,200,000
	<i>Total Engineering</i>	\$4,550,000	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$1,200,000
	Total Programmed		\$1,200,000	\$0	\$0	\$0	\$0		\$1,200,000

Total County Cost: \$1,200,000

County Engineer Salary Program

<i>Title</i>	County Engineer Salary Program		
<i>Scope of Work</i>	Other	<i>Municipality</i>	N/A
<i>Category</i>	Preservation	<i>Board District</i>	All Board Districts
<i>Lead Agency</i>	McHenry County DOT	<i>Total Cost</i>	\$893,576
<i>Project ID</i>	N/A	<i>Website</i>	N/A
<i>Limits</i>	N/A		
<i>Description</i>	This funding is for 50% of the County Engineer's position (Half of this salary is funded by federal Surface Transportation Program funds)		

Phase	Fund Source	2019	2020	2021	2022	2023	2024	2025	Total
ENGR	County MFT	\$82,000	\$85,000	\$87,125	\$89,303	\$91,536	\$93,824	\$96,170	\$446,788
ENGR	Federal STP - C	\$82,000	\$85,000	\$87,125	\$89,303	\$91,536	\$93,824	\$96,170	\$446,788
	<i>Total Engineering</i>	\$164,000	\$170,000	\$174,250	\$178,606	\$183,071	\$187,648	\$192,339	\$893,576
	Total Programmed		\$170,000	\$174,250	\$178,606	\$183,071	\$187,648		\$893,576

Total County Cost: \$446,788

Total Federal Share: \$446,788

APPENDIX A: METROPOLITAN PLANNING ORGANIZATION TRANSPORTATION IMPROVEMENT PROGRAM

Statewide Transportation Improvement Program

FY 2018-2021 As Amended June 2018

Proposed Highway & Transit Improvement Program



McHenry County is part of the Chicago Metropolitan Planning Organization (MPO). As part of this MPO all federal and state funded projects and projects of regional significance must be included in the MPO Transportation Improvement Program (TIP). The TIP is the official transportation plan for the MPO and is included in the State's Transportation Improvement Program. The 2018-2021 program can be viewed at www.idot.illinois.gov/transportation-system/transportation-management/transportation-improvement-programs-/stip/index. The TIP is used to track transportation projects and to inform the public of all the various agency projects in the region.

Throughout the planning, engineering, and construction process, project updates such as estimated costs, funding sources, project scope, and anticipated schedule are provided to the MPO. If administrative in nature, these changes are approved by the Transportation Committee of the MPO. If amendatory (major changes) in nature, these changes are approved by the Transportation Committee of the MPO, posted for 30 days of public review, and then approved by the Policy Committee of the MPO.

To develop the McHenry County Five Year Transportation Program, an annual review of the current TIP was undertaken and compared with the County program. Any needed changes have been made and approved by the Transportation Committee of the MPO.

The current MPO TIP can be viewed at <https://etip.cmap.illinois.gov/>

APPENDIX B: ROADWAY STANDARDS

Bureau of Local Roads and Streets Manual

The design and construction of McHenry County Highway improvements is governed by the Illinois Department of Transportation's "**Bureau of Local Roads and Streets Manual**".

This can be found on the Illinois Department of Transportation website at:
www.idot.illinois.gov/Assets/uploads/files/Doing-Business/Manuals-Guides-&-Handbooks/Highways/Local-Roads-and-Streets/Local%20Roads%20and%20Streets%20Manual.pdf



Illinois Department of Transportation

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APPENDIX C: ESTIMATED ANNUAL EXPENDITURES BY COUNTY FUND, PROGRAM, AND PROJECT

The following is a break-down of the anticipated County expenditures by funding source for each of the five program years. The projects are organized from the most expensive to the least expensive in total County Costs.

2020

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Randall Road	CONST	\$0	\$2,000,000	\$0	\$0	\$4,130,515	\$6,130,515	\$14,619,688	\$0	\$8,489,173	\$0
General Pavement Preservation	CONST	\$4,200,000	\$0	\$0	\$0	\$300,000	\$4,500,000	\$4,500,000	\$0	\$0	\$0
River Road Culvert	CONST	\$3,000,000	\$0	\$0	\$0	\$0	\$3,000,000	\$3,350,000	\$350,000	\$0	\$0
Illinois Route 23 & I-90 Interchange	CONST	\$0	\$0	\$0	\$0	\$2,000,000	\$2,000,000	\$2,000,000	\$0	\$0	\$0
Randall Road	ENGR3	\$0	\$0	\$0	\$0	\$1,735,000	\$1,735,000	\$1,735,000	\$0	\$0	\$0
Non Dedicated Subdivision Road Construction Program	CONST	\$0	\$1,600,000	\$0	\$0	\$0	\$1,600,000	\$1,600,000	\$0	\$0	\$0
RTA Sales Tax for Public Safety Purposes	CONST	\$0	\$0	\$0	\$0	\$1,200,000	\$1,200,000	\$1,200,000	\$0	\$0	\$0
Randall Road	ROW	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$0
Kishwaukee Valley Road Culvert (SN 056-3202)	CONST	\$0	\$0	\$0	\$1,000,000	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$0
Snow Removal Materials	MAINT	\$0	\$0	\$0	\$816,000	\$0	\$816,000	\$816,000	\$0	\$0	\$0
Charles Road Corridor Safety Project	ENGR1	\$600,000	\$0	\$0	\$0	\$0	\$600,000	\$600,000	\$0	\$0	\$0
Cary Road at Main Street (Algonquin) Roundabout	CONST	\$500,000	\$0	\$0	\$0	\$0	\$500,000	\$2,000,000	\$0	\$0	\$1,500,000
River Road Culvert	ENGR3	\$500,000	\$0	\$0	\$0	\$0	\$500,000	\$535,000	\$35,000	\$0	\$0
Randall Road	ENGR1	\$500,000	\$0	\$0	\$0	\$0	\$500,000	\$500,000	\$0	\$0	\$0
Tank Farm	MAINT	\$0	\$0	\$0	\$500,000	\$0	\$500,000	\$500,000	\$0	\$0	\$0
Airport/McGuire Road Bicycle and Pedestrian Accommodations	ENGR1	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$400,000	\$0	\$0	\$0
Traffic Signal/Lighting Maintenance	MAINT	\$0	\$0	\$0	\$370,000	\$0	\$370,000	\$370,000	\$0	\$0	\$0
Bridge Inspections	ENGR	\$0	\$0	\$350,000	\$0	\$0	\$350,000	\$350,000	\$0	\$0	\$0
MCRide Dial-a-Ride Service Pace Contract	TRAN	\$0	\$0	\$0	\$0	\$1,200,000	\$350,000	\$2,577,553	\$0	\$600,000	\$1,627,553
Non Dedicated Subdivision Road Maintenance Program - Matching	CONST	\$260,000	\$0	\$0	\$0	\$0	\$260,000	\$260,000	\$0	\$0	\$0
Pavement Markings - Paint Contract	MAINT	\$0	\$0	\$0	\$260,000	\$0	\$260,000	\$260,000	\$0	\$0	\$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Design Upon Request Bridge Program	ENGR	\$0	\$0	\$250,000	\$0	\$0	\$250,000	\$250,000	\$0	\$0	\$0
Pavement Marking Materials - Thermoplastic	MAINT	\$0	\$0	\$0	\$250,000	\$0	\$250,000	\$250,000	\$0	\$0	\$0
Miscellaneous Culverts	MAINT	\$0	\$0	\$0	\$175,000	\$0	\$175,000	\$175,000	\$0		\$0
Volunteer Driver and Transit Enhancement Program	TRAN	\$0	\$0	\$0	\$0	\$175,000	\$175,000	\$175,000	\$0	\$0	\$0
Township Bridge Rehabilitation Assistance Program	CONST	\$0	\$0	\$0	\$162,000	\$0	\$162,000	\$162,000	\$0		\$0
Bull Valley Road Bicycle and Pedestrian Accommodations	ENGR2	\$0	\$0	\$0	\$0	\$200,000	\$160,000	\$200,000	\$0	\$0	\$40,000
Bull Valley Road Bicycle and Pedestrian Accommodations	ROW	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$150,000	\$0	\$0	\$0
Materials Testing	ENGR	\$0	\$0	\$0	\$0	\$132,000	\$132,000	\$132,000	\$0	\$0	
Condition Evaluation/GIS Pavement Management Updates	ENGR	\$0	\$0	\$0	\$0	\$130,000	\$130,000	\$130,000	\$0	\$0	\$0
Algonquin Rd & Wilmot/Main HSIP Project	CONST	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$1,000,000	\$0	\$900,000	\$0
PROWAG Maintenance Program	ENGR	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Bridge Preventative Maintenance	MAINT	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$100,000	\$0		\$0
Roadside Safety Review	PLAN	\$0	\$0	\$0	\$0	\$500,000	\$100,000	\$500,000	\$0	\$400,000	\$0
Guardrail Maintenance	MAINT	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$100,000	\$0		\$0
PROWAG Maintenance Program	MAINT	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$100,000			
Sign Materials	MAINT	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Virginia Road HSIP and Complete Street Resurfacing	ENGR	\$400,000	\$0	\$0	\$0	\$0	\$85,000	\$400,000	\$0	\$315,000	\$0
County Engineer Salary Program	ENGR	\$170,000	\$0	\$0	\$0	\$0	\$85,000	\$170,000	\$0	\$85,000	\$0
Highway & Traffic Signal Lighting	MAINT	\$0	\$0	\$0	\$85,000	\$0	\$85,000	\$85,000	\$0	\$0	\$0
RWIS Lease Contract	CONST	\$0	\$0	\$0	\$70,000	\$0	\$70,000	\$70,000	\$0	\$0	\$0
Bunker Hill Road West Bridge (SN056-3107)	ENGR1	\$0	\$0	\$300,000	\$0	\$0	\$60,000	\$300,000	\$0	\$240,000	\$0
Finish Mowing Contract	MAINT	\$0	\$0	\$0	\$60,000	\$0	\$60,000	\$60,000	\$0	\$0	\$0
Street Sweeping Contract	MAINT	\$0	\$0	\$0	\$60,000	\$0	\$60,000	\$60,000	\$0	\$0	\$0
Low-Cost Safety Improvement Program	CONST	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0
Kishwaukee Valley Road Culvert (SN 056-3202)	ROW	\$0	\$0	\$50,000	\$0	\$0	\$50,000	\$50,000	\$0	\$0	\$0
Roadside Planting Program	MAINT	\$0	\$0	\$0	\$50,000	\$0	\$50,000	\$50,000	\$0	\$0	\$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Snow Fence	MAINT	\$0	\$0	\$0	\$50,000	\$0	\$50,000	\$50,000	\$0	\$0	\$0
Subregional Bicycle and Pedestrian Plan	PLAN	\$0	\$0	\$0	\$0	\$200,000	\$40,000	\$200,000	\$0	\$160,000	\$0
Johnsburg Road Bridge (SN056-3159)	ENGR1	\$0	\$0	\$200,000	\$0	\$0	\$40,000	\$200,000	\$0	\$160,000	\$0
Pothole Patching Materials	MAINT	\$0	\$0	\$0	\$40,000	\$0	\$40,000	\$40,000	\$0	\$0	\$0
Paulson Road Township Bridge (SN 056-3071)	ENGR1	\$0	\$0	\$200,000	\$0	\$0	\$40,000	\$200,000	\$0	\$160,000	\$0
Non Dedicated Subdivision Road Maintenance Program - Township IGA	CONST	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	\$0	\$0
Tree Trimming & Removal Program	MAINT	\$0	\$0	\$0	\$30,000	\$0	\$30,000	\$30,000	\$0	\$0	\$0
Culvert Materials	MAINT	\$0	\$0	\$0	\$25,000	\$0	\$25,000	\$25,000	\$0	\$0	\$0
Miller Road at IL 31 Native Landscaping	CONST	\$0	\$0	\$0	\$24,200	\$0	\$24,200	\$24,200	\$0	\$0	\$0
US 20 at 1)West Union Rd and at Coral Rd2)At Creek (0.4 MI W of Beck Rd.) 3) At Marengo-Beck/South Union Rd.	CONST	\$15,000	\$0	\$0	\$0	\$0	\$15,000	\$7,399,000	\$900,000	\$6,484,000	\$0
Electric Vehicle Charging Station	CONST	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0
Countywide Bike Share Program	TRAN	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$110,000	\$0	\$0	\$100,000
TOTALS		\$11,375,000	\$3,600,000	\$1,350,000	\$4,427,200	\$12,522,515	\$30,864,715	\$53,410,441	\$1,285,000	\$17,993,173	\$3,267,553

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Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Randall Road	ROW	\$0	\$500,000	\$0	\$2,000,000	\$2,500,000	\$5,000,000	\$5,000,000	\$0	\$0	\$0
General Pavement Preservation	CONST	\$4,200,000	\$0	\$0	\$0	\$300,000	\$4,500,000	\$4,500,000	\$0	\$0	\$0
Illinois Route 23 & I-90 Interchange	CONST	\$0	\$0	\$0	\$0	\$3,400,000	\$3,400,000	\$3,400,000	\$0	\$0	\$0
Randall Road	ENGR3	\$0	\$0	\$0	\$0	\$935,201	\$935,201	\$935,201	\$0	\$0	\$0
Non Dedicated Subdivision Road Construction Program	CONST	\$900,000	\$0	\$0	\$0	\$0	\$900,000	\$900,000	\$0	\$0	\$0
Snow Removal Materials	MAINT	\$0	\$0	\$0	\$824,000	\$0	\$824,000	\$824,000	\$0	\$0	\$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
MCRide Dial-a-Ride Service Pace Contract	TRAN	\$0	\$0	\$0	\$0	\$1,600,000	\$800,000	\$3,110,000	\$0	\$800,000	\$1,510,000
Randall Road	ENGR2	\$500,000	\$0	\$0	\$0	\$0	\$500,000	\$500,000	\$0	\$0	\$0
Main Street (Huntley) Extension	ENGR1	\$0	\$500,000	\$0	\$0	\$0	\$500,000	\$500,000	\$0	\$0	\$0
Ackman Road Corridor Project	ENGR1	\$0	\$0	\$0	\$0	\$500,000	\$500,000	\$500,000	\$0	\$0	\$0
Lakewood Road Corridor Complete Streets Project	ENGR2	\$0	\$0	\$0	\$0	\$450,000	\$400,000	\$450,000	\$0	\$0	\$50,000
Traffic Signal/Lighting Maintenance	MAINT	\$0	\$0	\$0	\$376,000	\$0	\$376,000	\$376,000	\$0	\$0	\$0
Pyott Road Corridor Safety Project	Feasibility	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$300,000	\$0	\$0	\$0
Pavement Markings - Paint Contract	MAINT	\$0	\$0	\$0	\$262,000	\$0	\$262,000	\$262,000	\$0	\$0	\$0
Non Dedicated Subdivision Road Maintenance Program - Matching	CONST	\$260,000	\$0	\$0	\$0	\$0	\$260,000	\$260,000	\$0	\$0	\$0
Pavement Marking Materials - Thermoplastic	MAINT	\$0	\$0	\$0	\$252,000	\$0	\$252,000	\$252,000	\$0	\$0	\$0
Lakewood Road Corridor Complete Streets Project	ROW	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$250,000	\$0	\$0	\$0
Remote Salt Storage and Maintenance Facility	ENGR	\$0	\$200,000	\$0	\$0	\$0	\$200,000	\$200,000	\$0	\$0	\$0
Miscellaneous Culverts	MAINT	\$0	\$0	\$0	\$176,000	\$0	\$176,000	\$176,000	\$0		\$0
Volunteer Driver and Transit Enhancement Program	TRAN	\$0	\$0	\$0	\$0	\$175,000	\$175,000	\$175,000	\$0	\$0	\$0
Township Bridge Rehabilitation Assistance Program	CONST	\$0	\$0	\$0	\$162,000	\$0	\$162,000	\$162,000	\$0		\$0
Cary Road Bicycle and Pedestrian Accommodations	ENGR1	\$0	\$200,000	\$0	\$0	\$0	\$160,000	\$200,000	\$0	\$0	\$40,000
Transportation Planning Projects	PLAN	\$0	\$0	\$0	\$0	\$140,000	\$140,000	\$140,000	\$0	\$0	\$0
Materials Testing	ENGR	\$0	\$0	\$0	\$0	\$132,000	\$132,000	\$132,000	\$0	\$0	
County Wide Traffic Counts	ENGR	\$0	\$0	\$0	\$105,000	\$0	\$105,000	\$105,000	\$0	\$0	\$0
Bridge Preventative Maintenance	MAINT	\$0	\$0	\$0	\$105,000	\$0	\$105,000	\$105,000	\$0	\$0	\$0
Guardrail Maintenance	MAINT	\$0	\$0	\$0	\$101,000	\$0	\$101,000	\$101,000	\$0		\$0
Sign Materials	MAINT	\$0	\$0	\$0	\$101,000	\$0	\$101,000	\$101,000	\$0	\$0	\$0
PROWAG Maintenance Program	ENGR	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
County Wide Signal Timing Review	ENGR	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$100,000	\$0	\$0	\$0
PROWAG Maintenance Program	MAINT	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$100,000			
Hunter Road Bridge (SN 056-3034)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Millstream Road Bridges (SN 056-3022) (SN 056-3023)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Thayer Road Township Bridge (SN056-3115)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
West Solon Road Township Bridge	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
White Oaks Road Township Bridge (SN056-3043)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
County Engineer Salary Program	ENGR	\$174,250	\$0	\$0	\$0	\$0	\$87,125	\$174,250	\$0	\$87,125	\$0
Highway & Traffic Signal Lighting	MAINT	\$0	\$0	\$0	\$86,000	\$0	\$86,000	\$86,000	\$0	\$0	\$0
RWIS Lease Contract	CONST	\$0	\$0	\$0	\$70,000	\$0	\$70,000	\$70,000	\$0	\$0	\$0
Walkup Road HSIP	CONST	\$0	\$68,240	\$0	\$0	\$0	\$68,240	\$682,400	\$0	\$614,160	\$0
Finish Mowing Contract	MAINT	\$0	\$0	\$0	\$61,000	\$0	\$61,000	\$61,000	\$0	\$0	\$0
Street Sweeping Contract	MAINT	\$0	\$0	\$0	\$60,000	\$0	\$60,000	\$60,000	\$0	\$0	\$0
Roadside Planting Program	MAINT	\$0	\$0	\$0	\$51,000	\$0	\$51,000	\$51,000	\$0	\$0	\$0
Snow Fence	MAINT	\$0	\$0	\$0	\$50,000	\$0	\$50,000	\$50,000	\$0	\$0	\$0
Johnson Road Bridge (SN056-3128)	ROW	\$0	\$0	\$50,000	\$0	\$0	\$50,000	\$50,000	\$0	\$0	\$0
Low-Cost Safety Improvement Program	CONST	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0
Perkins Road (Chemung) Township Culvert (SN056-5006)	ENGR1	\$0	\$0	\$225,000	\$0	\$0	\$45,000	\$225,000	\$0	\$180,000	\$0
Bunker Hill Road East Bridge (SN056-3070)	ENGR1	\$0	\$225,000	\$0	\$0	\$0	\$45,000	\$225,000	\$0	\$180,000	\$0
Pothole Patching Materials	MAINT	\$0	\$0	\$0	\$41,000	\$0	\$41,000	\$41,000	\$0	\$0	\$0
Millstream Road Bridges (SN 056-3022) (SN 056-3023)	ENGR2	\$0	\$200,000	\$0	\$0	\$0	\$40,000	\$200,000	\$0	\$160,000	\$0
Non Dedicated Subdivision Road Maintenance Program - Township IGA	CONST	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	\$0	\$0
Tree Trimming & Removal Program	MAINT	\$0	\$0	\$0	\$30,000	\$0	\$30,000	\$30,000	\$0	\$0	\$0
Johnson Road Bridge (SN056-3128)	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
Oak Grove Road Railroad Crossing Safety Project	CONST	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$300,000	\$255,000	\$0	\$15,000
Thayer Road Township Bridge (SN056-3115)	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
West Solon Road Township Bridge	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
White Oaks Road Township Bridge (SN056-3043)	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
Culvert Materials	MAINT	\$0	\$0	\$0	\$25,000	\$0	\$25,000	\$25,000	\$0	\$0	\$0
Hunter Road Bridge (SN 056-3034)	ENGR2	\$0	\$120,000	\$0	\$0	\$0	\$24,000	\$120,000	\$0	\$96,000	\$0
IL 176 at Nish Road	CONST	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$1,500,000	\$292,000	\$1,168,000	\$20,000
Countywide Bike Share Program	TRAN	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$110,000	\$0	\$0	\$100,000
Miller Road at IL 31 Native Landscaping	CONST	\$0	\$0	\$0	\$5,000	\$0	\$5,000	\$5,000	\$0	\$0	\$0
TOTALS		\$6,164,250	\$2,613,240	\$775,000	\$5,143,000	\$10,792,201	\$23,414,566	\$29,461,851	\$547,000	\$3,765,285	\$1,735,000

2022

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
General Pavement Preservation	CONST	\$4,200,000	\$0	\$0	\$0	\$300,000	\$4,500,000	\$4,500,000	\$0	\$0	\$0
Metra Service Enhancements	TRAN	\$0	\$0	\$0	\$0	\$4,000,000	\$4,000,000	\$4,000,000	\$0	\$0	\$0
Algonquin Road Resurfacing - East of Randall	CONST	\$0	\$0	\$0	\$1,000,000	\$700,000	\$1,700,000	\$1,700,000	\$0	\$0	\$0
Bull Valley Road Bicycle and Pedestrian Accommodations	CONST	\$0	\$0	\$0	\$0	\$960,000	\$960,000	\$1,200,000	\$0	\$0	\$240,000
Non Dedicated Subdivision Road Construction Program	CONST	\$900,000	\$0	\$0	\$0	\$0	\$900,000	\$900,000	\$0	\$0	\$0
Snow Removal Materials	MAINT	\$0	\$0	\$0	\$832,000	\$0	\$832,000	\$832,000	\$0	\$0	\$0
MCRide Dial-a-Ride Service Pace Contract	TRAN	\$0	\$0	\$0	\$0	\$1,620,000	\$810,000	\$3,135,000	\$0	\$810,000	\$1,515,000
River/Chapel Corridor Safety Project	Feasibility	\$0	\$0	\$0	\$500,000	\$0	\$500,000	\$500,000	\$0	\$0	\$0
Traffic Signal/Lighting Maintenance	MAINT	\$0	\$0	\$0	\$382,000	\$0	\$382,000	\$382,000	\$0	\$0	\$0
Bridge Inspections	ENGR	\$0	\$0	\$350,000	\$0	\$0	\$350,000	\$350,000	\$0	\$0	\$0
Randall Road	ROW	\$0	\$300,000	\$0	\$0	\$0	\$300,000	\$300,000	\$0	\$0	\$0
Pavement Markings - Paint Contract	MAINT	\$0	\$0	\$0	\$264,000	\$0	\$264,000	\$264,000	\$0	\$0	\$0
Non Dedicated Subdivision Road Maintenance Program - Matching	CONST	\$260,000	\$0	\$0	\$0	\$0	\$260,000	\$260,000	\$0	\$0	\$0
Pavement Marking Materials - Thermoplastic	MAINT	\$0	\$0	\$0	\$254,000	\$0	\$254,000	\$254,000	\$0	\$0	\$0
Miscellaneous Culverts	MAINT	\$0	\$0	\$0	\$177,000	\$0	\$177,000	\$177,000	\$0	\$0	\$0
Volunteer Driver and Transit Enhancement Program	TRAN	\$0	\$0	\$0	\$0	\$175,000	\$175,000	\$175,000	\$0	\$0	\$0
Virginia Road HSIP and Complete Street Resurfacing	CONST	\$0	\$0	\$0	\$0	\$168,216	\$168,216	\$1,000,000	\$0	\$831,784	\$0
Township Bridge Rehabilitation Assistance Program	CONST	\$0	\$0	\$0	\$162,000	\$0	\$162,000	\$162,000	\$0	\$0	\$0
Airport/McGuire Road Bicycle and Pedestrian Accommodations	ENGR2	\$0	\$0	\$0	\$0	\$200,000	\$160,000	\$200,000	\$0	\$0	\$40,000
Airport/McGuire Road Bicycle and Pedestrian Accommodations	ROW	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$150,000	\$0	\$0	\$0
Transportation Planning Projects	PLAN	\$0	\$0	\$0	\$0	\$140,000	\$140,000	\$140,000	\$0	\$0	\$0
Condition Evaluation/GIS Pavement Management Updates	ENGR	\$0	\$0	\$0	\$0	\$135,000	\$135,000	\$135,000	\$0	\$0	\$0
Materials Testing	ENGR	\$0	\$0	\$0	\$0	\$132,000	\$132,000	\$132,000	\$0	\$0	\$0
Bridge Preventative Maintenance	MAINT	\$0	\$0	\$0	\$110,000	\$0	\$110,000	\$110,000	\$0	\$0	\$0
Guardrail Maintenance	MAINT	\$0	\$0	\$0	\$102,000	\$0	\$102,000	\$102,000	\$0	\$0	\$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Sign Materials	MAINT	\$0	\$0	\$0	\$102,000	\$0	\$102,000	\$102,000	\$0	\$0	\$0
PROWAG Maintenance Program	ENGR	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
PROWAG Maintenance Program	MAINT	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$100,000			
Allendale Road Bridge (SN056-3126)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Bunker Hill Road West Bridge (SN056-3107)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Flat Iron Road Bridge (SN056-3019)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Harmony Road Bridge (SN 056-3138)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Johnsburg Road Bridge (SN056-3159)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Paulson Road Township Bridge (SN 056-3071)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Bull Valley Road Bicycle and Pedestrian Accommodations	ENGR3	\$0	\$0	\$0	\$0	\$96,000	\$96,000	\$120,000	\$0	\$0	\$24,000
County Engineer Salary Program	ENGR	\$178,606	\$0	\$0	\$0	\$0	\$89,303	\$178,606	\$0	\$89,303	\$0
Highway & Traffic Signal Lighting	MAINT	\$0	\$0	\$0	\$87,000	\$0	\$87,000	\$87,000	\$0	\$0	\$0
RWIS Lease Contract	CONST	\$0	\$0	\$0	\$70,000	\$0	\$70,000	\$70,000	\$0	\$0	\$0
Finish Mowing Contract	MAINT	\$0	\$0	\$0	\$62,000	\$0	\$62,000	\$62,000	\$0	\$0	\$0
Street Sweeping Contract	MAINT	\$0	\$0	\$0	\$60,000	\$0	\$60,000	\$60,000	\$0	\$0	\$0
Roadside Planting Program	MAINT	\$0	\$0	\$0	\$52,000	\$0	\$52,000	\$52,000	\$0	\$0	\$0
U.S. 14 at Hartland Road Intersection Project	ENGR1	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$350,000	\$300,000	\$0	\$0
Snow Fence	MAINT	\$0	\$0	\$0	\$50,000	\$0	\$50,000	\$50,000	\$0	\$0	\$0
Low-Cost Safety Improvement Program	CONST	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0
Pothole Patching Materials	MAINT	\$0	\$0	\$0	\$42,000	\$0	\$42,000	\$42,000	\$0	\$0	\$0
Non Dedicated Subdivision Road Maintenance Program - Township IGA	CONST	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	\$0	\$0
Tree Trimming & Removal Program	MAINT	\$0	\$0	\$0	\$30,000	\$0	\$30,000	\$30,000	\$0	\$0	\$0
Allendale Road Bridge (SN056-3126)	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
Bunker Hill Road West Bridge (SN056-3107)	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
Flat Iron Road Bridge (SN056-3019)	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
Harmony Road Bridge (SN 056-3138)	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
Johnsburg Road Bridge (SN056-3159)	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
Paulson Road Township Bridge (SN 056-3071)	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Culvert Materials	MAINT	\$0	\$0	\$0	\$25,000	\$0	\$25,000	\$25,000	\$0	\$0	\$0
Countywide Bike Share Program	TRAN	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$110,000	\$0	\$0	\$100,000
TOTALS		\$5,718,606	\$1,200,000	\$950,000	\$4,463,000	\$8,836,216	\$19,508,519	\$24,178,606	\$300,000	\$2,451,087	\$1,919,000

2023

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Randall Road	CONST	\$8,000,000	\$0	\$0	\$0	\$0	\$8,000,000	\$9,500,000	\$0	\$1,500,000	\$0
General Pavement Preservation	CONST	\$4,200,000	\$0	\$0	\$0	\$300,000	\$4,500,000	\$4,500,000	\$0	\$0	\$0
Metra Service Enhancements	TRAN	\$0	\$0	\$0	\$0	\$4,000,000	\$4,000,000	\$4,000,000	\$0	\$0	\$0
Randall Road	ENGR3	\$0	\$0	\$0	\$0	\$2,500,000	\$2,500,000	\$2,500,000	\$0	\$0	\$0
Ackman Road Resurfacing	CONST	\$700,000	\$0	\$0	\$0	\$700,000	\$1,400,000	\$1,400,000	\$0	\$0	\$0
Lakewood Road Corridor Complete Streets Project	CONST	\$0	\$0	\$0	\$900,000	\$0	\$900,000	\$900,000	\$0	\$0	\$0
Snow Removal Materials	MAINT	\$0	\$0	\$0	\$840,000	\$0	\$840,000	\$840,000	\$0	\$0	\$0
MCRide Dial-a-Ride Service Pace Contract	TRAN	\$0	\$0	\$0	\$0	\$1,640,000	\$820,000	\$3,160,000	\$0	\$820,000	\$1,520,000
Ackman Road Corridor Project	ROW	\$0	\$0	\$0	\$500,000	\$0	\$500,000	\$500,000	\$0	\$0	\$0
Ackman Road Corridor Project	ENGR2	\$0	\$0	\$0	\$0	\$500,000	\$500,000	\$500,000	\$0	\$0	\$0
Main Street (Huntley) Extension	ENGR2	\$0	\$0	\$0	\$500,000	\$0	\$500,000	\$500,000	\$0	\$0	\$0
Main Street (Huntley) Extension	ROW	\$0	\$0	\$0	\$500,000	\$0	\$500,000	\$500,000	\$0	\$0	\$0
Millstream Road Bridges (SN 056-3022) (SN 056-3023)	CONST	\$0	\$500,000	\$0	\$0	\$0	\$500,000	\$2,500,000	\$0	\$2,000,000	\$0
Pyott Road Corridor Safety Project	ENGR1	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$400,000	\$0	\$0	\$0
West Solon Road Township Bridge	CONST	\$0	\$400,000	\$0	\$0	\$0	\$400,000	\$1,600,000	\$0	\$1,200,000	\$0
Traffic Signal/Lighting Maintenance	MAINT	\$0	\$0	\$0	\$388,000	\$0	\$388,000	\$388,000	\$0	\$0	\$0
Charles Road Corridor Safety Project	ENGR2	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$300,000	\$0	\$0	\$0
Charles Road Corridor Safety Project	ROW	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$300,000	\$0	\$0	\$0
Johnson Road Bridge (SN056-3128)	CONST	\$0	\$300,000	\$0	\$0	\$0	\$300,000	\$1,500,000	\$0	\$1,200,000	\$0
Paulson Road Township Bridge (SN 056-3071)	CONST	\$0	\$300,000	\$0	\$0	\$0	\$300,000	\$1,500,000	\$0	\$1,200,000	\$0
Tryon Grove Road Corridor Safety Project	Feasibility	\$0	\$0	\$0	\$0	\$300,000	\$300,000	\$300,000	\$0	\$0	\$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Pavement Markings - Paint Contract	MAINT	\$0	\$0	\$0	\$266,000	\$0	\$266,000	\$266,000	\$0	\$0	\$0
Non Dedicated Subdivision Road Maintenance Program - Matching	CONST	\$260,000	\$0	\$0	\$0	\$0	\$260,000	\$260,000	\$0	\$0	\$0
Pavement Marking Materials - Thermoplastic	MAINT	\$0	\$0	\$0	\$256,000	\$0	\$256,000	\$256,000	\$0	\$0	\$0
McGuire Road Bridge (SN 056-3008)	ENGR	\$0	\$0	\$225,000	\$0	\$0	\$225,000	\$225,000	\$0	\$0	\$0
Hunter Road Bridge (SN 056-3034)	CONST	\$0	\$200,000	\$0	\$0	\$0	\$200,000	\$1,000,000	\$0	\$800,000	\$0
White Oaks Road Township Bridge (SN056-3043)	CONST	\$0	\$200,000	\$0	\$0	\$0	\$200,000	\$1,000,000	\$0	\$800,000	\$0
McGuire Road Culvert (SN 056-3049)	ENGR	\$0	\$0	\$190,000	\$0	\$0	\$190,000	\$190,000	\$0	\$0	\$0
Miscellaneous Culverts	MAINT	\$0	\$0	\$0	\$178,000	\$0	\$178,000	\$178,000	\$0	\$0	\$0
Volunteer Driver and Transit Enhancement Program	TRAN	\$0	\$0	\$0	\$0	\$175,000	\$175,000	\$175,000	\$0	\$0	\$0
Township Bridge Rehabilitation Assistance Program	CONST	\$0	\$0	\$0	\$162,000	\$0	\$162,000	\$162,000	\$0	\$0	\$0
Randall Road Bicycle and Pedestrian Accommodations	ENGR1	\$0	\$0	\$0	\$0	\$200,000	\$160,000	\$200,000	\$0	\$0	\$40,000
Cary Road Bicycle and Pedestrian Accommodations	ENGR2	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$150,000	\$0	\$0	\$0
Transportation Planning Projects	PLAN	\$0	\$0	\$0	\$0	\$140,000	\$140,000	\$140,000	\$0	\$0	\$0
Materials Testing	ENGR	\$0	\$0	\$0	\$0	\$132,000	\$132,000	\$132,000	\$0	\$0	\$0
Bridge Preventative Maintenance	MAINT	\$0	\$0	\$0	\$115,000	\$0	\$115,000	\$115,000	\$0	\$0	\$0
County Wide Traffic Counts	ENGR	\$0	\$0	\$0	\$110,000	\$0	\$110,000	\$110,000	\$0	\$0	\$0
Guardrail Maintenance	MAINT	\$0	\$0	\$0	\$103,000	\$0	\$103,000	\$103,000	\$0	\$0	\$0
Sign Materials	MAINT	\$0	\$0	\$0	\$103,000	\$0	\$103,000	\$103,000	\$0	\$0	\$0
PROWAG Maintenance Program	ENGR	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Lakewood Road Corridor Complete Streets Project	ENGR3	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0
PROWAG Maintenance Program	MAINT	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Perkins Road (Chemung) Township Culvert (SN056-5006)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Bunker Hill Road East Bridge (SN056-3070)	ROW	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Cary Road Bicycle and Pedestrian Accommodations	ROW	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0
County Engineer Salary Program	ENGR	\$183,071	\$0	\$0	\$0	\$0	\$91,536	\$183,071	\$0	\$91,536	\$0
Highway & Traffic Signal Lighting	MAINT	\$0	\$0	\$0	\$88,000	\$0	\$88,000	\$88,000	\$0	\$0	\$0
RWIS Lease Contract	CONST	\$0	\$0	\$0	\$70,000	\$0	\$70,000	\$70,000	\$0	\$0	\$0
Finish Mowing Contract	MAINT	\$0	\$0	\$0	\$63,000	\$0	\$63,000	\$63,000	\$0	\$0	\$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Street Sweeping Contract	MAINT	\$0	\$0	\$0	\$60,000	\$0	\$60,000	\$60,000	\$0	\$0	\$0
Thayer Road Township Bridge (SN056-3115)	CONST	\$0	\$60,000	\$0	\$0	\$0	\$60,000	\$1,500,000	\$240,000	\$1,200,000	\$0
Roadside Planting Program	MAINT	\$0	\$0	\$0	\$53,000	\$0	\$53,000	\$53,000	\$0	\$0	\$0
U.S. 14 at Hartland Road Intersection Project	ENGR2	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$350,000	\$300,000	\$0	\$0
County Wide Signal Timing Review	ENGR	\$0	\$0	\$0	\$50,000	\$0	\$50,000	\$50,000	\$0	\$0	\$0
Snow Fence	MAINT	\$0	\$0	\$0	\$50,000	\$0	\$50,000	\$50,000	\$0	\$0	\$0
Low-Cost Safety Improvement Program	CONST	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0
Pothole Patching Materials	MAINT	\$0	\$0	\$0	\$43,000	\$0	\$43,000	\$43,000	\$0	\$0	\$0
Non Dedicated Subdivision Road Maintenance Program - Township IGA	CONST	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	\$0	\$0
Tree Trimming & Removal Program	MAINT	\$0	\$0	\$0	\$30,000	\$0	\$30,000	\$30,000	\$0	\$0	\$0
Perkins Road (Chemung) Township Culvert (SN056-5006)	ENGR2	\$0	\$0	\$150,000	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
Bunker Hill Road East Bridge (SN056-3070)	ENGR2	\$0	\$150,000	\$0	\$0	\$0	\$30,000	\$150,000	\$0	\$120,000	\$0
Culvert Materials	MAINT	\$0	\$0	\$0	\$25,000	\$0	\$25,000	\$25,000	\$0	\$0	\$0
U.S. 14 at Hartland Road Intersection Project	ROW	\$0	\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$0	\$0
Countywide Bike Share Program	TRAN	\$0	\$0	\$0	\$0	\$0	\$0	\$110,000	\$0	\$0	\$110,000
TOTALS		\$13,523,071	\$2,110,000	\$765,000	\$5,553,000	\$11,987,000	\$32,746,536	\$46,408,071	\$940,000	\$11,051,536	\$1,670,000

2024

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Randall Road	CONST	\$4,100,000	\$1,100,000	\$0	\$1,800,000	\$3,200,000	\$10,200,000	\$10,200,000	\$0	\$0	\$0
General Pavement Preservation	CONST	\$4,200,000	\$0	\$0	\$0	\$300,000	\$4,500,000	\$4,500,000	\$0	\$0	\$0
Metra Service Enhancements	TRAN	\$0	\$0	\$0	\$0	\$4,000,000	\$4,000,000	\$4,000,000	\$0	\$0	\$0
Lakewood Road Corridor Complete Streets Project	CONST	\$600,000	\$0	\$0	\$0	\$2,600,000	\$3,200,000	\$3,200,000	\$0	\$0	\$0
River/Chapel Corridor Safety Project	ENGR1	\$0	\$0	\$0	\$0	\$2,000,000	\$2,000,000	\$2,000,000	\$0	\$0	\$0
Cary Road Bicycle and Pedestrian Accommodations	CONST	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$1,000,000	\$0	\$0	\$0
Airport/McGuire Road Bicycle and Pedestrian Accommodations	CONST	\$0	\$0	\$0	\$0	\$1,200,000	\$960,000	\$1,200,000	\$0	\$0	\$240,000

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Snow Removal Materials	MAINT	\$0	\$0	\$0	\$848,000	\$0	\$848,000	\$848,000	\$0	\$0	\$0
MCRide Dial-a-Ride Service Pace Contract	TRAN	\$0	\$0	\$0	\$0	\$1,660,000	\$830,000	\$3,185,000	\$0	\$830,000	\$1,525,000
Harmony Road Bridge (SN 056-3138)	CONST	\$0	\$500,000	\$0	\$0	\$0	\$500,000	\$2,500,000	\$0	\$2,000,000	\$0
Johnsburg Road Bridge (SN056-3159)	CONST	\$0	\$400,000	\$0	\$0	\$0	\$400,000	\$2,000,000	\$0	\$1,600,000	\$0
Traffic Signal/Lighting Maintenance	MAINT	\$0	\$0	\$0	\$394,000	\$0	\$394,000	\$394,000	\$0	\$0	\$0
Bridge Inspections	ENGR	\$0	\$0	\$350,000	\$0	\$0	\$350,000	\$350,000	\$0	\$0	\$0
Flat Iron Road Bridge (SN056-3019)	CONST	\$0	\$300,000	\$0	\$0	\$0	\$300,000	\$1,500,000	\$0	\$1,200,000	\$0
Pavement Markings - Paint Contract	MAINT	\$0	\$0	\$0	\$268,000	\$0	\$268,000	\$268,000	\$0	\$0	\$0
Non Dedicated Subdivision Road Maintenance Program - Matching	CONST	\$260,000	\$0	\$0	\$0	\$0	\$260,000	\$260,000	\$0	\$0	\$0
Pavement Marking Materials - Thermoplastic	MAINT	\$0	\$0	\$0	\$258,000	\$0	\$258,000	\$258,000	\$0	\$0	\$0
Lakewood Road Corridor Complete Streets Project	ENGR3	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$200,000	\$0	\$0	\$0
Bunker Hill Road West Bridge (SN056-3107)	CONST	\$0	\$200,000	\$0	\$0	\$0	\$200,000	\$1,000,000	\$0	\$800,000	\$0
Miscellaneous Culverts	MAINT	\$0	\$0	\$0	\$179,000	\$0	\$179,000	\$179,000	\$0	\$0	\$0
Volunteer Driver and Transit Enhancement Program	TRAN	\$0	\$0	\$0	\$0	\$175,000	\$175,000	\$175,000	\$0	\$0	\$0
Township Bridge Rehabilitation Assistance Program	CONST	\$0	\$0	\$0	\$162,000	\$0	\$162,000	\$162,000	\$0	\$0	\$0
Condition Evaluation/GIS Pavement Management Updates	ENGR	\$0	\$0	\$0	\$0	\$140,000	\$140,000	\$140,000	\$0	\$0	\$0
Transportation Planning Projects	PLAN	\$0	\$0	\$0	\$0	\$140,000	\$140,000	\$140,000	\$0	\$0	\$0
Materials Testing	ENGR	\$0	\$0	\$0	\$0	\$132,000	\$132,000	\$132,000	\$0	\$0	\$0
Bridge Preventative Maintenance	MAINT	\$0	\$0	\$0	\$120,000	\$0	\$120,000	\$120,000	\$0	\$0	\$0
Guardrail Maintenance	MAINT	\$0	\$0	\$0	\$104,000	\$0	\$104,000	\$104,000	\$0	\$0	\$0
Sign Materials	MAINT	\$0	\$0	\$0	\$104,000	\$0	\$104,000	\$104,000	\$0	\$0	\$0
PROWAG Maintenance Program	ENGR	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0	\$0	\$0
PROWAG Maintenance Program	MAINT	\$0	\$0	\$0	\$100,000	\$0	\$100,000	\$100,000	\$0	\$0	\$0
Cary Road Bicycle and Pedestrian Accommodations	ENGR3	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0
Airport/McGuire Road Bicycle and Pedestrian Accommodations	ENGR3	\$0	\$0	\$0	\$0	\$120,000	\$96,000	\$120,000	\$0	\$0	\$24,000
County Engineer Salary Program	ENGR	\$187,648	\$0	\$0	\$0	\$0	\$93,824	\$187,648	\$0	\$93,824	\$0
Highway & Traffic Signal Lighting	MAINT	\$0	\$0	\$0	\$89,000	\$0	\$89,000	\$89,000	\$0	\$0	\$0
Allendale Road Bridge (SN056-3126)	CONST	\$0	\$400,000	\$0	\$0	\$0	\$80,000	\$2,000,000	\$320,000	\$1,600,000	\$0
RWIS Lease Contract	CONST	\$0	\$0	\$0	\$70,000	\$0	\$70,000	\$70,000	\$0	\$0	\$0

Project	Phase	MFT	Matching	Bridge	Option	RTA	Total County Costs	Project Cost	State	Federal	Local/Other
Finish Mowing Contract	MAINT	\$0	\$0	\$0	\$64,000	\$0	\$64,000	\$64,000	\$0	\$0	\$0
Street Sweeping Contract	MAINT	\$0	\$0	\$0	\$60,000	\$0	\$60,000	\$60,000	\$0	\$0	\$0
Roadside Planting Program	MAINT	\$0	\$0	\$0	\$54,000	\$0	\$54,000	\$54,000	\$0	\$0	\$0
Snow Fence	MAINT	\$0	\$0	\$0	\$50,000	\$0	\$50,000	\$50,000	\$0	\$0	\$0
Low-Cost Safety Improvement Program	CONST	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0
Perkins Road (Seneca) Township Culvert (SN056-3136)	ENGR1	\$0	\$0	\$225,000	\$0	\$0	\$45,000	\$225,000	\$0	\$180,000	\$0
Streit Road Township Culvert (SN056-3065)	ENGR1	\$0	\$0	\$225,000	\$0	\$0	\$45,000	\$225,000	\$0	\$180,000	\$0
Pothole Patching Materials	MAINT	\$0	\$0	\$0	\$44,000	\$0	\$44,000	\$44,000	\$0	\$0	\$0
Non Dedicated Subdivision Road Maintenance Program - Township IGA	CONST	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0	\$0	\$0
Tree Trimming & Removal Program	MAINT	\$0	\$0	\$0	\$30,000	\$0	\$30,000	\$30,000	\$0	\$0	\$0
Culvert Materials	MAINT	\$0	\$0	\$0	\$25,000	\$0	\$25,000	\$25,000	\$0	\$0	\$0
Countywide Bike Share Program	TRAN	\$0	\$0	\$0	\$0	\$0	\$0	\$110,000	\$0	\$0	\$110,000
TOTALS		\$9,477,648	\$2,900,000	\$800,000	\$4,823,000	\$17,017,000	\$33,149,824	\$43,852,648	\$320,000	\$8,483,824	\$1,899,000

APPENDIX D: CHANGES FROM LAST YEAR'S PROGRAM

The following is a list of significant differences between the adopted McHenry County 2019-2023 Transportation Program and the proposed 2020-2024 Program:

1. Reasonably expected revenues includes new funding available through the 2019 Illinois Capital Program. This includes an increase in the County's annual allotment of motor fuel tax revenue from \$5.5 million in 2019 to \$8 million in 2020. (page 13)
2. The "Snow Fence Program" was renamed the "Artificial and Living Snow Fence Program". (page 21)
3. The "Highway Lighting Systems-Power" program was renamed the "Highway and Traffic Signal Lighting" program. (page 26)
4. A new program funding "Pothole Patching Materials" through the County Option Motor Fuel Tax fund was added. (page 28)
5. A new program was added for the "Road Weather Information System (RWIS) Lease Contract". (page 33)
6. A new program was added to fund a replacement of MCDOT's "Winter Operations Tank Farm". (page 36)
7. The "Tree Planting Program" was renamed the "Roadside Planting Program" to allow for the plating of native plants along County roadways. (page 37)
8. "Resurfacing of Ackman Road" in 2023 was added to the Pavement Preservation Program. (page 42)
9. The County and Township Bridge Program separated the County bridges from the Township bridges and added average annual daily traffic figures. (page 49)
10. A "Design Upon Request Bridge Program" was added to contract with an engineering firm to assist MCDOT staff as needed. (page 54)
11. The "Johnsburg Road Bridge" was added to the Program, with construction scheduled in 2024. (page 58)
12. The "Perkins Road (Seneca) Township Culvert" was added to the program with phase 1 engineering beginning in 2024. (page 65)
13. The "Perkins Road (Chemung) Township Culvert" was added to the program with phase 1 engineering beginning in 2021. (page 66)
14. Construction of the "River Road Culvert" was delayed to 2020 and the construction cost increased from \$950,000 to \$3,350,000. (page 67)
15. The "Streit Road Township Bridge" was added to the program with phase 1 engineering beginning in 2024. (page 68)
16. The "Queen Ann-Charles Road Intersection Safety Project" was renamed the "Charles Road Corridor Safety Project". (page 80)
17. Funding was added to the Program for a "Roadside Safety Review" project in 2020. (page 82)
18. The "Virginia Road HSIP & Complete Streets Project" was added to the Public Safety and Health Program with construction expected in 2022. (page 84)
19. The "Ackman Road Corridor Project" was moved from the Safety Program to the Operational and Capacity Program. (page 88)
20. The "Northern McHenry Fox River Crossing" project was removed from the program due to work on the Tri County Access project coming to an end.
21. Funding for engineering, right of way acquisition, and construction was added to the Randall Road project for Stage 2 (Northern Segment). (page 93)
22. The "U.S. Route 14 at Hartland/Hughes Road Intersection Project" was added to the program with construction expected in 2025. (page 99)
23. The "MCRide Dial-a-Ride" program is planned to be expanded County-wide 2021, resulting in increased County costs. (page 106)
24. The "Rakow Road Bicycle and Pedestrian Accommodations" project was removed from the program due to lack of sufficient support from local municipalities.
25. The "Kishwaukee Valley Road Bicycle and Pedestrian Accommodation" project was removed from the program due to the relocation of the PADS shelter to the City of McHenry.
26. Funding was added to the Program for an update to the "McHenry County Subregional Bicycle and Pedestrian Plan" in 2020. (page 109)
27. Funding was added to the Program for the purchase of an "Electric Vehicle Charging Station" at the McHenry County Division of Transportation. (page 111)

**McHenry County
Division of Transportation
16111 Nelson Road
Woodstock, Illinois 60098**

**815-334-4985
mcdot@mchenrycountyil.gov
www.McHenryCountyDOT.org**

