

# Michigan Department of Transportation

## Rail Strategic Plan – FY2022-2026

2021 PA87, Section 707

February 28, 2022

*Section 707. (1) Before March 1 of each year, the department will provide to the legislature, the state budget office, and the house and senate fiscal agencies its rail strategic plan. The strategic plan shall include, but is not limited to, a rolling 5-year rail plan and summary of the department's obligations for programs funded under the appropriation in part 1 for rail operations and infrastructure.*

*(2) The rolling 5-year rail plan shall include, but is not limited to, all the following:*

*(a) A listing by county of all rail infrastructure projects on rail lines within the state utilizing state funds, and the estimated cost of each project.*

*(b) The actual or projected state expenditures for operation of passenger rail service.*

*(c) The actual or projected state expenditures for maintenance of passenger service rail lines.*

*(3) The period of the rolling 5-year rail plan includes the current fiscal year and the 4 fiscal years immediately following the current fiscal year.*

*(4) The summary of the department's obligations for programs funded under the appropriation in part 1 for rail operations and infrastructure shall include a breakdown of the appropriation by program, year-to-year obligations under each program itemized by project, and an estimate of future obligations under each program itemized by project for the remainder of the fiscal year.*

The Michigan Department of Transportation's Office of Rail is pleased to present its Rail Strategic Plan for Fiscal Years 2022 through 2026. While future available revenues are unknown and some funding needs are not known in advance, this plan provides a listing of anticipated projects and spending representing future obligations and priorities.

The Rail Operations and Infrastructure appropriation line funds several individual programs and activities, including passenger rail operating assistance, capital and maintenance activities on the 665 miles of state-owned freight and passenger rail lines, and enhanced economic development through investments in rail infrastructure.

The majority of funding for this appropriation line comes from the Comprehensive Transportation Fund (CTF). Authority is also provided to spend federal, local, and private dollars, as well as monies in the Rail Freight Fund, should funding from any of those sources be available.

The current FY2022 breakdown by program is included in the chart below:

Passenger Rail Operating	\$ 22,680,000
Kalamazoo-Dearborn Maintenance	\$ 2,677,632
Kalamazoo-Dearborn Capital	\$ 22,596,495
Freight Lines Capital	\$ 10,606,991
Freight Economic Development Program	\$ 8,000,000
Miscellaneous	\$ 11,595,082
<b>TOTAL</b>	<b>\$ 78,156,200</b>

Details of the above planned investments for FY2022, as well as those for FY2023 through FY2026 for the multiple CTF-funded program areas are contained on the following pages. While there will almost certainly be adjustments based on changing revenues and appropriations, emerging needs, or other factors, this represents the estimated projection at this time. One project that is not currently included in the plan is the rebuild of the Manistee River Bridge in Wexford County. This project will be necessary to maintain efficient freight service in Northern Michigan and is estimated to cost between \$20 to \$25 million. It has not been determined when this project will be completed, but it is worth noting due to the estimated costs of the project.

Two areas of funding needs are especially difficult to predict.

First, the Freight Economic Development Program receives, reviews, and approves applications throughout the year. While the goal is to always be able to assist with qualifying projects that relate to job creation and increased rail usage, this Plan includes placeholder amounts based upon history and reasonable projections.

Second, per the provisions of the Passenger Rail Investment and Improvement Act of 2008 (PRIIA), states are responsible for providing operating assistance for Amtrak routes under 750 miles. That includes all three Michigan services – the Wolverine, Blue Water and Pere Marquette. MDOT contracts with Amtrak and is responsible for costs not covered by ticket and other revenues. The pandemic has had a significant impact on ridership and revenue, but the financial impact of that on the state has been cushioned by the availability of federal COVID relief funding. It remains to be seen how ridership and revenue bounce back as we move forward.

**FY 2022**

	Location	Project Description	Estimated Cost	Federal/Other	State
<b>Passenger Rail Operating</b>					
Amtrak Operating Assistance	Three Amtrak corridors	Provide federally-mandated operating assistance	\$20,180,000	\$0	\$20,180,000
Midwest States Equipment	Three Amtrak corridors	Michigan's share of multi-state equipment contract	\$2,500,000	\$0	\$2,500,000
<b>Kalamazoo-Dearborn Maintenance</b>					
Kalamazoo-Dearborn Maintenance	Kalamazoo to Dearborn	General maintenance/State of Good Repair activities	\$977,632	\$0	\$977,632
Insurance and Utilities	Kalamazoo to Dearborn	Property insurance and utilities	\$1,700,000	\$0	\$1,700,000
<b>Kalamazoo-Dearborn Capital (Track/Bridge/Signal)</b>					
Track Rehabilitation	Jackson to Dearborn	Install 45,000 Ties	\$11,600,000	\$4,347,262	\$7,252,738
Jackson/Mechanic Bridge Replacement	Jackson	Replace Jackson and Mechanic St. bridges	\$10,982,384	\$0	\$10,982,384
Battle Creek Connection PE/NEPA	Battle Creek	PE/NEPA for new track connection in Battle Creek	\$1,499,839	\$1,124,879	\$374,960
Conceptual Engineering Survey	Battle Creek		\$50,000	\$0	\$50,000
Signal Rehabilitation	Kalamazoo to Dearborn	Replace switch machines and gate mechanisms; install switch heaters and backup generators	\$7,419,514	\$5,103,807	\$2,315,707
Trespasser Prevention	Kalamazoo to Dearborn	Final Design - Fencing and pedestrian safety features at crossings	\$150,000	\$75,000	\$75,000
Jackson-Ypsilanti Curve Modifications	Jackson to Ypsilanti	Final Design/DWP/PMP - Curve mods and one rail train	\$340,704	\$170,352	\$170,352
Turnout Replacements	Jackson & Washtenaw Counties	CP 75 - CP 28	\$1,687,320	\$1,160,445	\$526,875
Bridge Railing Install and Substructure Repairs	Huron River	AML 36.43, 39.03, 41.16, and 30.94	\$786,479	\$0	\$786,479
M-39 Bridge CE and Construction Inspection	Dearborn		\$62,000	\$0	\$62,000
<b>Freight Lines Capital (Track/Bridge)</b>					
GLC - Manistee River Bridge Repairs	Wexford County	Bridge repairs - B02-83350.66	\$1,600,000	\$0	\$1,600,000
GLC - Temporary Bridge Support	Clare County	Design and construction - Temporary supports - B02-18201.10	\$750,000	\$0	\$750,000
GLC - Corlett Creek Drain Branch #117	Shiawassee County	Replace Structure - B08-76109.86	\$377,700	\$0	\$377,700
GLC - Sawyer & Extension Drain #405	Shiawassee County	Replace Structure - B10-76112.25	\$242,000	\$0	\$242,000
GLC - CE for Three Ann Arbor District Bridges	Livingston and Shiawassee Counties	Bridge Design and Construction	\$2,000,000	\$0	\$2,000,000
TBD Bridge Improvements	Various		\$2,600,000	\$0	\$2,600,000
GLC - Design Rail Siding	Gratiot County		\$75,000	\$0	\$75,000
IN - Ties and Spikes	Hillsdale County		\$9,291	\$0	\$9,291
GLC - Continuously Welded Rail Install	Washtenaw, Livingston and Shiawassee Counties	Install 4.25 miles of continuously welded rail	\$2,100,000	\$0	\$2,100,000
TBD Freight Lines Capital Projects	Various		\$853,000	\$0	\$853,000
<b>Freight Economic Development Program</b>					
Midwest Energy & Communications	Cass County	Construct Rail Spur	\$1,287,760	\$0	\$1,287,760
Additional Funding to Complete Prior Projects	Various		\$463,246	\$0	\$463,246
Projects TBD	TBD		\$6,248,994	\$0	\$6,248,994
<b>Miscellaneous</b>					
Grand Rapids Station Track Inspection	Grand Rapids	Provide federally-required inspection services	\$36,400	\$0	\$36,400
Detroit New Center PE/NEPA	Detroit		\$847,163	\$0	\$847,163
Quandel - FRA Grant Management Consultant			\$107,050	\$0	\$107,050
Design and Analysis (Consultants)			\$1,444,200	\$0	\$1,444,200
MDOT Staff Support	Various		\$35,000	\$0	\$35,000
Miscellaneous Small Projects	Various		\$11,742	\$0	\$11,742
TBD Capital Improvements/Federal Grant Match	Various		\$9,113,527	\$0	\$9,113,527

**FY 2023**

	Location	Project Description	Estimated Cost	Federal/Other	State
<b>Passenger Rail Operating</b>					
Amtrak Operating Assistance	Three Amtrak corridors	Provide federally-mandated operating assistance	\$28,000,000	\$0	\$28,000,000
Midwest States Equipment	Three Amtrak corridors	Michigan's share of multi-state equipment contract	\$1,000,000	\$0	\$1,000,000
<b>Kalamazoo-Dearborn Maintenance</b>					
Kalamazoo-Dearborn Maintenance	Kalamazoo to Dearborn	General maintenance/State of Good Repair activities	\$11,000,000	\$0	\$11,000,000
Insurance and Utilities	Kalamazoo to Dearborn	Property insurance and utilities	\$1,700,000	\$0	\$1,700,000
<b>Kalamazoo-Dearborn Capital (Track/Bridge/Signal)</b>					
Trespasser Prevention	Kalamazoo to Dearborn	Install ROW fencing and pedestrian safety features at crossings	\$6,146,650	\$3,173,325	\$2,973,325
Jackson-Ypsilanti Curve Modifications	Jackson to Ypsilanti	Construction - Curve mods and one rail train	\$15,399,976	\$9,199,987	\$6,199,989
Turnout Replacement	Kalamazoo to Dearborn	Replace 7 industry turnouts	\$3,937,080	\$2,707,705	\$1,229,375
Superstructure Replacement	Washtenaw County	Superstructure replacement - AML31.71	\$4,000,000	\$0	\$4,000,000
Superstructure Replacement	Washtenaw County	Superstructure replacement - AML32.46	\$3,000,000	\$0	\$3,000,000
Superstructure Replacement	Jackson County	Superstructure replacement - AML79.85	\$1,000,000	\$0	\$1,000,000
Turnout Replacement	Chelsea	CP 52 and 56 Construction w/curve mods	\$1,000,000	\$0	\$1,000,000
Spot Ditching/Slope Stabilization	Various	Ditching to address as-needed situations	\$500,000	\$0	\$500,000
Signal Rehabilitation	Kalamazoo to Dearborn	Replace 27 crossing gate mechanisms	\$1,053,000	\$0	\$1,053,000
<b>Freight Lines Capital (Track/Bridge)</b>					
Bridge Inspections	Various Locations	Detailed Inspections and Load Ratings	\$350,000	\$0	\$350,000
GLC - Culvert Replacement	Washtenaw County	Culvert replacement - B01-81047.54	\$591,000	\$0	\$591,000
GLC - Superstructure replacement	Livingston County	Superstructure replacement - B01-47061.11	\$5,350,000	\$0	\$5,350,000
GLC - Superstructure replacement	Shiawassee County	Superstructure replacement - B02-76089.37	\$2,100,000	\$0	\$2,100,000
GLC - Bridge Repairs	Livingston County	Super- and sub- structure repairs - B03-47082.03	\$4,900,000	\$0	\$4,900,000
GLC - Construct rail siding	Clinton County	Construct new passing siding	\$2,000,000	\$0	\$2,000,000
Project Contingency	Various Locations	20% Contingency	\$1,400,000	\$0	\$1,400,000
<b>Freight Economic Development Program</b>					
Projects TBD	TBD		\$8,000,000	\$0	\$8,000,000
<b>Miscellaneous</b>					
Grand Rapids Station Track Inspection	Grand Rapids	Provide federally-required inspection services	\$36,400	\$0	\$36,400

**FY 2024**

	Location	Project Description	Estimated Cost	Federal/Other	State
<b>Passenger Rail Operating</b>					
Amtrak Operating Assistance	Three Amtrak corridors	Provide federally-mandated operating assistance	\$31,000,000	\$0	\$31,000,000
Midwest States Equipment	Three Amtrak corridors	Michigan's share of multi-state equipment contract	\$1,000,000	\$0	\$1,000,000
<b>Kalamazoo-Dearborn Maintenance</b>					
Kalamazoo-Dearborn Maintenance	Kalamazoo to Dearborn	General maintenance/State of Good Repair activities	\$11,000,000	\$0	\$11,000,000
Insurance and Utilities	Kalamazoo to Dearborn	Property insurance and utilities	\$1,700,000	\$0	\$1,700,000
<b>Kalamazoo-Dearborn Capital (Track/Bridge/Signal)</b>					
Trespasser Prevention	Kalamazoo to Dearborn	Install ROW fencing and pedestrian safety features at crossings	\$6,146,650	\$3,173,325	\$2,973,325
Jackson-Ypsilanti Curve Modifications	Jackson to Ypsilanti	Construction - Curve mods and one rail train	\$15,399,976	\$9,199,987	\$6,199,989
Superstructure Replacement	Kalamazoo County	Design - Superstructure replacement - AML 139.46	\$150,000	\$0	\$150,000
Michigan Line System-wide Concrete Repairs	Various Locations	CPM concrete repair on structures over roadway	\$5,000,000	\$0	\$5,000,000
Signal Rehabilitation	Kalamazoo to Dearborn	Replace 26 crossing gate mechanisms	\$1,014,000	\$0	\$1,014,000
Grade Crossing Rehabilitation	Kalamazoo to Dearborn	Rehab 8 grade crossings	\$1,600,000	\$0	\$1,600,000
<b>Freight Lines Capital (Track/Bridge)</b>					
IN - Hallett Street Railroad Overpass Replacement	Hillsdale County	Replacement and Construction Engineering	\$5,150,000	\$0	\$5,150,000
GLC - Superstructure Replacement	Clare County	Superstructure replacement and pier removal - B02-18201.10	\$5,000,000	\$0	\$5,000,000
H&E - Bridge Design	Tuscola County	Design three structures - X01-79086.50, 79086.74, B02-79086.46	\$950,000	\$0	\$950,000
System-wide Culvert Replacement	Various Locations	Non-bridge qualifying culvert replacement	\$2,000,000	\$0	\$2,000,000
IN - Detailed Bridge Inspections	Hillsdale County	Detailed Inspections and load ratings	\$500,000	\$0	\$500,000
GLC - Rail Crop and Slide + Whitmore Lake Siding	Washtenaw and Livingston Counties	Crop and Slide - 12.3 miles + Upgrade siding rail from 70# to 90#	\$6,250,000	\$0	\$6,250,000
Project Contingency	Various Locations	20% Contingency	\$1,060,000	\$0	\$1,060,000
<b>Freight Economic Development Program</b>					
Projects TBD	TBD		\$8,000,000	\$0	\$8,000,000
<b>Miscellaneous</b>					
Grand Rapids Station Track Inspection	Grand Rapids	Provide federally-required inspection services	\$36,400	\$0	\$36,400

**FY 2025**

	Location	Project Description	Estimated Cost	Federal/Other	State
<b>Passenger Rail Operating</b>					
Amtrak Operating Assistance	Three Amtrak corridors	Provide federally-mandated operating assistance	\$31,000,000	\$0	\$31,000,000
Midwest States Equipment	Three Amtrak corridors	Michigan's share of multi-state equipment contract	\$1,000,000	\$0	\$1,000,000
<b>Kalamazoo-Dearborn Maintenance</b>					
Kalamazoo-Dearborn Maintenance	Kalamazoo to Dearborn	General maintenance/State of Good Repair activities	\$11,000,000	\$0	\$11,000,000
Insurance and Utilities	Kalamazoo to Dearborn	Property insurance and utilities	\$1,700,000	\$0	\$1,700,000
<b>Kalamazoo-Dearborn Capital (Track/Bridge/Signal)</b>					
Trespasser Prevention	Kalamazoo to Dearborn	Install ROW fencing and pedestrian safety features at crossings	\$6,146,650	\$3,173,325	\$2,973,325
Diamond Replacement	Wayne	Procure CP 18 diamonds	\$1,000,000	\$0	\$1,000,000
Substructure Repairs	Kalamazoo County	Substructure repairs, safety railing and walkway installation - AML129.39	\$200,000	\$0	\$200,000
Superstructure Replacement	Kalamazoo County	Superstructure replacement- AML139.46	\$2,000,000	\$0	\$2,000,000
Signal Rehabilitation	Kalamazoo to Dearborn	Replace 28 crossing gate mechanisms	\$1,092,000	\$0	\$1,092,000
<b>Freight Lines Capital (Track/Bridge)</b>					
H&E - Grade Conversion	Tuscola County	Design - Convert bridge to grade crossing - X01-79000.40	\$150,000	\$0	\$150,000
GLC - Bridge Replacement	Livingston County	Bridge replacement - B01-76087.20	\$330,000	\$0	\$330,000
GLC - Bridge Replacement	Shiawassee County	Bridge replacement - B06-47070.85	\$377,700	\$0	\$377,700
GLC - Culvert Replacement	Washtenaw County	Culvert replacement - B02-81049.05	\$261,000	\$0	\$261,000
H&E - Bridge Replacement	Tuscola County	Bridge replacement- X01-79086.50	\$3,000,000	\$0	\$3,000,000
H&E - Bridge Replacement	Tuscola County	Superstructure and pier replacement - B02-79086.46	\$4,500,000	\$0	\$4,500,000
H&E - Bridge Maintenance	Tuscola County	Concrete Preventive Maintenance - B01-79086.74	\$200,000	\$0	\$200,000
GLC - Bridge Design	Livingston County	Design work on three structures - R01-47998, R01-47999, R01-47997, and X01-	\$700,000	\$0	\$700,000
System-wide Culvert Replacement	Various Locations	Non-bridge qualifying culvert replacement	\$2,000,000	\$0	\$2,000,000
Detailed Bridge Inspections	Various Locations	Detailed inspections and load ratings	\$700,000	\$0	\$700,000
IN - Bridge Rail Joint Removal	Hillsdale County	13 structures - remove rail joints from bridges	\$200,000	\$0	\$200,000
GLC - Rail Crop and Slide	Livingston County	Crop and slide 10 miles rail	\$5,050,000	\$0	\$5,050,000
Project Contingency	Various Locations	20% Contingency	\$1,810,000	\$0	\$1,810,000
<b>Freight Economic Development Program</b>					
Projects TBD	TBD		\$8,000,000	\$0	\$8,000,000
<b>Miscellaneous</b>					
Grand Rapids Station Track Inspection	Grand Rapids	Provide federally-required inspection services	\$36,400	\$0	\$36,400

**FY 2026**

	Location	Project Description	Estimated Cost	Federal/Other	State
<b>Passenger Rail Operating</b>					
Amtrak Operating Assistance	Three Amtrak corridors	Provide federally-mandated operating assistance	\$31,000,000	\$0	\$31,000,000
Midwest States Equipment	Three Amtrak corridors	Michigan's share of multi-state equipment contract	\$1,000,000	\$0	\$1,000,000
<b>Kalamazoo-Dearborn Maintenance</b>					
Kalamazoo-Dearborn Maintenance	Kalamazoo to Dearborn	General maintenance/State of Good Repair activities	\$11,000,000	\$0	\$11,000,000
Insurance and Utilities	Kalamazoo to Dearborn	Property insurance and utilities	\$1,700,000	\$0	\$1,700,000
<b>Kalamazoo-Dearborn Capital (Track/Bridge/Signal)</b>					
Trespasser Prevention	Kalamazoo to Dearborn	Install ROW fencing and pedestrian safety features at crossings	\$6,146,650	\$3,173,325	\$2,973,325
Signal Rehabilitation	Kalamazoo to Dearborn	Replace 26 crossing gate mechanisms	\$1,014,000	\$0	\$1,014,000
Rail Replacement	Washtenaw and Wayne	Install 3 rail trains to replace 127# rail	\$4,800,000	\$0	\$4,800,000
<b>Freight Lines Capital (Track/Bridge)</b>					
GLC - Bridge Removal and Closure	Livingston	Removal and closure - R01-47998	\$2,000,000	\$0	\$2,000,000
GLC - Bridge Maintenance	Livingston	Preventative maintenance - R01-47999 and R01-47997	\$3,000,000	\$0	\$3,000,000
System wide culvert replacement	Various	Non-bridge qualifying culvert replacement	\$2,000,000	\$0	\$2,000,000
Freight corridor wide concrete repairs	Various	Preventative maintenance - concrete repairs	\$5,000,000	\$0	\$5,000,000
Detailed Bridge Inspections	Various	Detailed Inspections and Load Ratings	\$400,000	\$0	\$400,000
IN - Masonry Repairs	Branch and Hillsdale	IN Masonry	\$300,000	\$0	\$300,000
H&E - Grade conversion	Tuscola	Construction - Convert bridge to grade crossing - X01-79000.40	\$1,900,000	\$0	\$1,900,000
GLC - Rail crop and slide	Livingston	Crop and slide 10 miles rail	\$4,400,000	\$0	\$4,400,000
GLC - New Ann Arbor District Siding	Livingston	Design - New Rail Siding	\$300,000	\$0	\$300,000
Project Contingency	Various	20% Contingency	\$3,340,000	\$0	\$3,340,000
<b>Freight Economic Development Program</b>					
Projects TBD	TBD		\$8,000,000	\$0	\$8,000,000
<b>Miscellaneous</b>					
Grand Rapids Station Track Inspection	Grand Rapids	Provide federally-required inspection services	\$36,400	\$0	\$36,400

Freight Corridors Operated by:  
 GLC - Great Lakes Central  
 H&E - Huron and Eastern  
 IN - Indiana Northeastern