

2045
Metropolitan
Transportation Plan
for the
Battle Creek Area
Transportation Study
Executive Summary

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Battle Creek Area Transportation Study (BCATS) *2045 Metropolitan Transportation Plan (MTP)*

EXECUTIVE SUMMARY

The Battle Creek Area Transportation Study (BCATS), as the Metropolitan Planning Organization (MPO) for the greater Battle Creek, Michigan area, is charged by the Federal Department of Transportation, DOT with maintaining a continuing, comprehensive, and cooperative transportation planning program. At present, this charge includes the development of a transportation plan, with a minimum horizon of 20-years, that is fiscally constrained by reasonably available revenues, and meets the conditions of air quality conformity, as applicable.

The development and content of this Plan is mandated by federal legislation, starting with the “Intermodal Surface Transportation Efficiency Act” (ISTEA) of 1991 and its successor legislation. The Moving Ahead for Progress in the 21st Century (MAP-21) and the Fixing America’s Surface Transportation Act (FAST Act) have had the most impact on planning regulations as far as the development and content of MPO long range plans. The 2045 Plan includes chapter that are new from the previous 2040 MTP in order to meet the expanded planning regulations. The 2045 Plan also has to comply with certain air quality conformity requirements of the USEPA, see Chapter 19, that were not required of the 2016 MTP update. The BCATS 2045 Metropolitan Transportation Plan was approved by the BCATS Policy Committee on February 23, 2022. Copies of the approving resolutions for the MTP and for air quality conformity are included as the last pages of this Executive Summary and as Appendices in the full Plan document.

GOALS & OBJECTIVES

An important first step in any planning effort is the development of goals and objectives to support and to provide direction for the planning work to come. Goals and objectives reflect the values and desires of the individuals setting them. Goals and objectives are also valuable in measuring the effectiveness and success of the plans that are developed. Some of the objectives may compete or conflict within one another. This is to be expected, as the goals and objectives are broad in nature and designed to deal with many issues. It is the responsibility of the policy decision-makers to weigh the trade-offs between the goals and objectives when evaluating the plans and programs or improvements to directly satisfy the stated goals and objectives. However, BCATS provides a forum for coordinated decisions to be made cooperatively in the best interests of the greater Battle Creek area.

In developing goals and objectives for the Plan, and for BCATS in general, several existing plans and policy statements were considered as input, including: BCATS’ previously adopted Goals and Objectives from the 2040 Long Range Transportation Plan, Michigan Department of Transportation goals for the MI Transportation Plan (see Chapter 6), State of Michigan Strategic Highway Safety Plan for 2019-2022, and FHWA’s FAST Act rules and regulations.

The FAST Act requires transportation plans which involve all levels of government and all surface transportation modes. The intent of the legislation is to improve transportation and provide for consideration of projects and strategies that:

- (1) support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency
- (2) increase the safety of the transportation system for motorized and non-motorized users
- (1) increase the security of the transportation system for motorized and non-motorized users
- (4) increase accessibility and mobility of people and freight
- (5) protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns
- (6) enhance the integration and connectivity of the transportation system, across and between modes, for people and freight
- (7) promote efficient system management and operation
- (8) emphasize the preservation of the existing transportation system
- (9) improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation
- (10) enhance travel and tourism

The MPO plans are coordinated with the state plans (as noted above) and the statewide planning process. The following updated goals and objectives were approved by the BCATS Policy Committee in March 2021 to guide this update of the 2040 Transportation Plan to a horizon year of 2045. A complete representation of the goals and objectives for the MTP is included in Chapter 3 of the full 2045 Metropolitan Transportation Plan document.

GOAL 1: SAFETY

To minimize the loss of life, injuries, and property damage resulting from travel on all modes within the BCATS area

GOAL 2: ACCESSIBILITY

To provide all travelers in the community with reasonable access to important destinations such as: residence, employment, recreation, community facilities and commercial centers

GOAL 3: PRESERVATION

To preserve the investment in the area's transportation system

GOAL 4: EFFICIENCY

To achieve maximum efficiency, utilization, and performance from the transportation system

GOAL 5: FINANCIAL

To minimize the financial costs of the transportation system to travelers and the community as a whole

GOAL 6: COMPREHENSIVE PLANNING

To coordinate the planning and development of transportation facilities within the metropolitan area and in conjunction with countywide and statewide planning efforts

GOAL 7: PUBLIC INVOLVEMENT

To provide for public involvement in the planning and development of transportation facilities and services

GOAL 8: ENVIRONMENTAL IMPACTS

To avoid disrupting social and economic life or creating a less attractive or less healthy living environment for Battle Creek area residents due to unintended harmful effects of transportation on the immediate and global environment

GOAL 9: COMMUNITY IMPACT

To avoid and reduce conflicts between transportation facilities and land use

PUBLIC PARTICIPATION

The Map-21/FAST Act legislation continued the requirements of prior legislation relative to the public participation process relative to the participation of the public and other interested parties in the transportation process. The metropolitan transportation planning regulations originating in that prior legislation (SAFETEA-LU) related to public involvement specify that:

“The MPO shall develop and use a documented participation plan that defines a process for providing citizens, affected public agencies, representatives of public transportation employees, freight shippers, providers of freight transportation services, private providers of transportation, representatives of users of pedestrian walkways and bicycle transportation facilities, representatives of the disabled, and other interested parties with reasonable opportunities to be involved in the metropolitan transportation planning process.”

To this end, BCATS developed an initial Participation Plan, which was approved by the BCATS Policy Committee in December of 2006. That original Plan has been updated twice, once in July 2014 and again in January 2021. Chapters 4 and 5 of the full 2045 MTP document identify interested parties in the BCATS area and the public participation process.

BCATS provided updates relative to the MTP development throughout the process, at its regular meetings (held virtually for most of the Plan development time period), online at its website, and with newsletters/flyers distributed by e-mail and regular mail. The newsletters/flyers were also provided to local units of government to be made available to the public at their offices. A notice was published in the local general circulation newspaper, the Battle Creek Enquirer, on February 7, 2022 indicating a public comment period for the final draft of the 2045 MTP and the Committee meeting dates when comments could be provided as well. Documentation of these outreach efforts are included in Chapter 4 - Public Participation. No public comments were received relative to the 2045 MTP.

CONSULTATION

A requirement for the development of long range plans, since the implementing regulations of SAFETEA-LU back in 2005, has been the aspect of Consultation with federal, state, and local entities that are responsible for the following:

Economic growth and development	Freight movement	Conservation
Environmental protection	Land use management	Historic preservation
Airport operations	Natural resources	Human service transportation providers

The goal of this process is to eliminate or minimize conflicts with other agencies' plans and programs that impact transportation, or for which transportation decisions may impact them. A listing of contact agencies and organizations is included in Chapter 5 of the full MTP document.

BCATS has received little comments from the consultation agencies about the MTP update. The consultation agencies and organizations received the same newsletters and updates as those on the public participation list. BCATS has received one comment from DNR Fisheries Division as a result of the outreach to consultation agencies. The Division's comment was to offer a contact person's name and indicated that the agency had "no major issues" with the MTP. This feedback is documented in Chapter 5 of the MTP. The 2045 MTP document and chapters are available on the BCATS website, to be consulted at any time.

INTERMODAL CONSIDERATIONS

Three chapters in the 2045 MTP are devoted to the inventory and consideration of modes other than highways which are utilized for the movement of people and goods in the BCATS area. The modes reviewed include: aviation, rail, trucking, pedestrian, non-motorized, transit, taxi, intercity bus and ride-sharing. Transit provided information for the inclusion of transit projects in the overall Plan project listing. Ongoing work being done by the local agencies in the planning and implementation of non-motorized projects is supported by BCATS within the programming of the MTP and the Transportation Improvement Program (TIP).

COORDINATION WITH THE STATE LONG RANGE PLAN & LONG RANGE PLANNING

Federal regulations require that BCATS' MTP coordinate with statewide long range plans required of the state. The Michigan Department of Transportation updated its long range transportation plan July of 2016 and again in November of 2021. The 2021 plan, *Michigan Mobility 2045 Transportation Plan (MM2045)* sets forth six goals that reflect similar goals as the BCATS' 2045 MTP goals.

The MM2045 goals are:

1. **Quality of Life:** Enhance quality of life for all communities and users of the transportation network
2. **Mobility:** Enhance mobility choices for all users of the transportation network through efficient and effective operations and reliable multimodal opportunities
3. **Safety and Security:** Enhance the safety and ensure the security of the transportation network for all users and workers
4. **Network Condition:** Through investment strategies and innovation, preserve and improve the condition of Michigan's transportation network so that all modes are reliable, resilient, and adaptable
5. **Economy and Stewardship:** Improve the movement of people and goods to attract and sustain diverse economic opportunities while investing resources responsibly
6. **Partnership:** Strengthen, expand and promote collaboration with all users through effective public and private partnerships

MDOT also has an updated State Highway Safety Plan (SHSP), with the most current edition being the *2019-2022 State of Michigan Strategic Highway Safety Plan*. The SHSP identifies four broad emphasis areas where resources should be focused. They are: high-risk behaviors, at-risk road users, engineering infrastructure, and system

administration. Another state plan in development (based on Governor's Executive Directive 2020-10 Building a Carbon-Neutral Michigan) is a "MI Healthy Climate Plan" to be completed by the Michigan Department of Environment, Great Lakes and Energy (EGLE). The state's freight and rail plans were incorporated into the MM2045 Plan.

PERFORMANCE -BASED PLANNING

A new component in the current long range plan update is the Performance-Based Planning chapter. The objective of a performance based program is for states and MPOs to invest resources in projects that collectively will make progress toward the achievement of nationally set goals. The federal regulations identify seven areas as measures for the transportation system. Those areas are:

1. pavement condition on the Interstate system and on the remainder of the National Highway System (NHS)
2. performance (system reliability) of the Interstate system and the remainder of the NHS
3. bridge condition on the NHS
4. fatalities and serious injuries, both number and rate per vehicle mile traveled, on all public roads, plus bicycle and pedestrian fatalities and serious injuries
5. traffic congestion
6. on-Road mobile source emissions
7. freight movement on the Interstate system

There are also performance measures applicable to transit relative to the condition of rolling stock, equipment, facilities and infrastructure. In addition, transit is required to develop a safety plan and safety targets. All of these requirements have been met by the local transit operator, Battle Creek Transit. Transit needs to update its asset condition targets on an annual basis.

MDOT has set state targets for the various road specific target categories, only some of which are to be addressed by BCATS due to the size of the metropolitan area. For the applicable road targets, BCATS has 180 days to either support the state targets or set independent targets for the MPO area. For the safety, payment condition, bridge condition, and system reliability (including freight movement) targets, BCATS has acted within the 180 day window to support the MDOT selected targets at each point that MDOT has set or updated the targets. BCATS also has acted to support the transit targets for asset condition each year. In addition, BCATS acknowledged receipt of the transit safety plan and BCATS' intent to support the transit safety targets as developed by BCT.

Detailed target information and examples of projects addressing the targets is included in Chapter 10 of the MTP.

IDENTIFICATION OF RECOMMENDED PROJECTS FOR THE 2045 METROPOLITAN TRANSPORTATION PLAN

Future capacity deficiencies on the BCATS roadway network have been identified utilizing a computerized Travel Demand Forecast Model (TDFM) maintained by MDOT. Socio-economic data (for population, households, and employment) in the model base year of 2016 were used to develop a simulation of traffic volumes and conditions on the area's roadways which are compared to known volumes and conditions in the same base year. Once the two sets of information are in relative agreement ("calibrated"), the projection of future socio-economic data allows for future traffic volumes to be approximated on the roadway network and for locations of future congestion (too many vehicles for the road design) to be identified. There were no significant future traffic capacity issues identified for the BCATS area using the TDFM.

Safety-related concerns are routinely identified through review of crash data and from staff of the area road agencies and Battle Creek Transit. Typical safety-related projects are largely intersection related, but may also deal with signal progression and other operational issues along corridors, and usually are implemented as short-term operating improvements not specified in long-range plans. One prominent safety-related concern in the BCATS area is the high level of vehicle/deer crashes, which unfortunately are almost impossible to mitigate.

Pavement rehabilitation projects are considered preservation on the project list for specific improvements and are not considered expansion in nature. The road agencies use pavement management assessment to develop schedules for pavement rehabilitation.

Public transit projects are listed in the project list and represent on-going funding for transit operations, security projects, vehicle replacement, and other types of capital improvements.

OPERATIONAL AND MANAGEMENT STRATEGIES

Federal requirements dictate that BCATS include “operational and management strategies to improve the performance of existing transportation facilities to relieve vehicular congestion and maximize the safety and mobility of people and goods.” To this end, BCATS has identified a number of transportation strategies that it participates in and/or promotes which will achieve these objectives. These strategies include: asset management, capital preventative maintenance, general maintenance, safety projects, intelligent transportation system activities, access management, pedestrian and non-motorized improvement, and optimization of public transit services.

FINANCIAL PLAN

The federal regulations require a review of the financial feasibility of the improvements included in the long range plan. The BCATS 2045 Metropolitan Transportation Plan must be financially constrained, which means that there must be sufficient and reasonably available funds to carry-out the projects included in the Plan. Adequate funding necessary to maintain the existing transportation system must also be shown to exist so that the existing system is preserved. The regulations also require that all revenues and costs be inflated to “year of expenditure dollars” to most accurately reflect the validity of the financial constraint calculated. BCATS has completed the process to meet this requirement. Costs for operations and maintenance of the existing system have been developed and projected over the life of the Plan. Based on all of the analysis completed, tables were developed which summarize available revenue and projected costs over the life of the Plan. For detail about the development of any of information in the following tables, please see Chapter 15 of the full 2045 MTP document.

Summary of Available Revenues for the BCATS 2045 Transportation Plan

Projected Capital Revenues	Total \$
Federal Transportation Funds for Construction of Local Roads	48,238,200
Federal and State Funding for State Controlled Roadways in BCATS area	353,800,000
Federal/State/Local Transit Funding (operating and capital)	130,333,000
State funding for Operations/Maintenance of State Controlled facilities	241,000,000
State and Local Funding for Construction and Operations/Maintenance of Federal-Aid Eligible Local Primary/Secondary Roads	411,118,000
TOTAL (total federal, state, and local revenues estimated to be available for road related construction, transit capital/operating and road related operations and maintenance of the major street/primary road system and state roadway system within the BCATS area)	1,184,489,200

**Summary of 2045 Transportation Plan Operations/Maintenance and Capital Expenditures
2022-2045**

Operations/Maintenance Expenditures for Local & State Roads	Total \$
Estimated Expenditures for Operations/Maintenance of Local Roads	173,557,000
Estimated Expenditures for Operations/Maintenance of State Roads	241,000,000
Planned Capital Expenditures	Total \$
Local Road Projects	92,832,675
Transit Projects	162,210,216
State Projects	336,424,628
TOTAL CAPITAL EXPENDITURES	591,467,519

The total expenditures identified in the BCATS 2045 Metropolitan Transportation Plan are within the total federal, state and local revenues estimated to the Plan. As shown in the following table, there is projected to be adequate revenue available for capital expenditures, as well as for operations and maintenance expenditures for the transportation system. Therefore, the BCATS 2045 Metropolitan Transportation Plan is financially constrained.

**Demonstration of Financial Constraint for the
2045 Transportation Plan for the Battle Creek Area Transportation Study**

Total federal, state, and local revenues estimated to be available for road related construction, transit capital/operating and road related operations and maintenance of the major street/primary road system and state roadway system within the BCATS area	\$1,184,489,200
Expenditures for Operations/Maintenance of Local & State Roads	(\$414,557,000)
Expenditures for Local Road Improvement Projects	(\$92,832,675)
Expenditures for Transit Improvement Projects	(\$162,210,216)
Expenditures for State Improvement Projects	(\$336,424,628)
REMAINING BALANCE	\$178,464,681

ENVIRONMENTAL MITIGATION

Federal regulations require that BCATS include in its long range plan “a discussion of types of potential environmental mitigation activities and potential areas to carry out these activities, including activities that may have the greatest potential to restore and maintain the environmental functions affected by the metropolitan transportation plan.” The goal of this process is to eliminate or minimize environmental impacts from the planned projects in the MPO’s transportation plan. This applies primarily to the “improve and expand” type projects not within the existing footprint of the facility. However, addressing this issue in the transportation plan is not intended to be project specific. The owners

of any future project are still required to meet all of the necessary requirements of the National Environmental Policy Act (NEPA) process.

In September, 2007, BCATS' Policy Committee adopted a set of guidelines for "Considering Environmental issues in the Transportation Planning Process" for use by BCATS and the area's transportation agencies. The guidelines include areas of concern specifically identified by some of the agencies that are traditional "Consultation" agencies. This includes: farmlands, wetlands, drainage, flood plains, threatened and endangered species, impaired streams and other water bodies, air quality, and noise.

BCATS' review of these issues led to the identification of environmental and cultural factors in the BCATS area which were reviewed relative to future transportation projects. The projects which have a specific location identified for them were assessed as to whether they may be in an area that might impact any of the noted areas of concern. "Expansion" projects involving the location of a new roadway or widening of existing roads have the greatest potential for impacting multiple resource or cultural areas. There are currently no projects qualifying as "Expansion" in the 2045 MTP.

The environmental guidelines and the assessment material related to this issue are included in Chapter 16 of the 2045 MTP.

AIR QUALITY CONFORMITY

The Clean Air Act Amendments of 1990 (CAAA) established the mandate for better coordination between air quality and transportation planning. The CAAA requires that all transportation plans and transportation investments in non-attainment and maintenance areas be subject to an air quality conformity determination. The purpose of such a determination is to demonstrate that the metropolitan transportation plan and the Transportation Improvement Program conform to the intent and purpose of the State Implementation Plan (SIP).

Effective July 20, 2013, the United States Environmental Protection Agency (USEPA) revoked the 1997 8-hour 0.080 parts per million (ppm) ozone standard for the purposes of regional transportation conformity. On July 20, 2013, the USEPA also issued designations for a new 8-hour 0.075 ppm ozone standard. This change resulted in the Kalamazoo/Battle Creek air quality area being designated attainment under that standard. Therefore, the BCATS 2016 MTP and 2017-2020 TIP did not require air quality conformity determination.

However, on February 16, 2018, the United States Court Appeals for the District of Columbia Circuit ruled in *SouthCoast Air Quality Mgmt. District v. EPA* ("South Coast II, 882 F.3d 1138) that transportation conformity determinations must be made in areas that were either nonattainment or maintenance for the 1997 ozone National Ambient Air Quality Standards (NAAQS) and attainment for the 2008 ozone NAAQS when the 1997 ozone NAAQS was revoked. It was required that conformity determinations on any new long range plans and TIP amendments be made after February 16, 2019. Based on the status of the Kalamazoo/Battle Creek air quality area at the times in question, the provisions of the South Coast II decision now require a conformity determination for the 1997 ozone NAAQS on long range plans and TIP/TIP amendments. The Kalamazoo/Battle Creek air quality area is now considered a "Limited Orphan Maintenance Area" which requires a conformity determination but no regional emission analysis and no emissions model, budget, or tests. Further discussion of this topic is provided in Chapter 19 of the MTP document.

ENVIRONMENTAL JUSTICE

In accordance with federal guidelines on Environment Justice (EJ) that amplify Title VI of the Civil Rights Act, attention has been placed on the need to incorporate environmental justice principles into the processes and projects of transportation planning. Therefore, it is a regular component of the BCATS' MTPs and TIPs to evaluate the potential of planned transportation improvements relative to negative impacts on areas with racial minorities, Hispanic populations, and populations with incomes below the poverty level.

The analysis completed for this component, which is included in detail in Chapter 18 of the MTP, generally shows that there will be impacts to non-minority as well as minority and low-income populations as a result of the projects included in the 2045 MTP. However, none of the included projects involve residential displacements. Other construction related project impacts, such as noise, dust and access inconvenience, will be short-lived and confined to the traditional construction season. When looking at the most directly impacted residents (those within .10 mile of the stated improvement) it is generally found that there are no glaring disproportional impacts to any of the identified groups as compared to the area as a whole.

2045 METROPOLITAN TRANSPORTATION PLAN - RECOMMENDED IMPROVEMENTS

Nearly, \$591.5 million in “year of expenditure dollars” would be expended through implementation of the improvement “projects” recommended in the Plan. The projects at specific locations where improvements are recommended are listed on a table and displayed on a map at the end of this Executive Summary. The BCATS 2045 MTP ID project numbers correspond to the mapped locations for the selected projects to be mapped.

Other road projects not on the list of site-specific recommended improvements, as proposed in this MTP, include annual general projects to address pavement preservation on both local and state trunkline facilities. Specific work for the various preservation strategy projects at the end of the project list are typically identified two to three years in advance and are programmed accordingly in the BCATS Transportation Improvement Program (TIP) for implementation.

Both operating and capital expenditures for public transit are listed as “projects” in this MTP. Battle Creek Transit’s (BCT’s) annual operating cost, annual State Specialized Services Operating Assistance funds (passed through BCT to local social service agencies), and an annual transit security capital improvement project (required by the Federal Transit Administration), are recommended as “projects” in each Plan year. Other BCT capital projects over the years of the MTP include, replacement of vehicles for BCT and social service agencies, periodic upgrades of the electronic farebox system, maintenance equipment upgrades and replacement, and new office equipment, to name a few.

“Illustrative” projects are also referenced in the 2045 MTP, and are listed in Chapter 13 - Transportation Deficiencies/Limitations & Alternatives. “Illustrative “ projects are generally less developed and without cost estimates or likely funding. They are identified in the Plan as options to be further developed over the next few years for possible inclusion in the next MTP update. They identify needs for which the current funding levels are not adequate to address. The “Illustrative” projects are not included in the main project list, nor the financial plan.

CONCLUSION

This Executive Summary provided a very cursory review of the contents of the Battle Creek Area Transportation Study’s 2045 Metropolitan Transportation Plan in an effort to have a succinct summary for interested individuals and the general public at-large. The full 2045 Plan is a lengthy document. Specifics regarding any of the information contained in this Executive Summary can be found in the complete MTP document.

In the final version of the 2045 MTP, this Executive Summary is included at the beginning of, and as part of, the full Plan document. It is also a stand alone report. The full, final Plan document will be available, once approved, as a pdf document online at BCATS’ website <https://www.bcatsmpo.org>. The document can also be obtained by contacting the BCATS staff office at 601 Avenue A, Springfield, MI 49037, phone (269)963-1158, or by contacting BCATS by e-mail at bcats@bcatsmpo.org. A fee may be charged for a paper copy of the full document.



Battle Creek Area Transportation Study (BCATS)
2045 Metropolitan Transportation Plan
Recommended Improvements

YEAR	BCATS 2045 MTP ID#	RESPONSIBLE AGENCY	PROJECT NAME	LIMITS	LENGTH (miles)	PROJECT DESCRIPTION	TOTAL ESTIMATED AMOUNT (\$)	MDOT JN	PHASE
2022	1	Battle Creek	Clark Rd	River Rd southward to M-96 (Dickman Rd W)	0.84	Road Capital Preventive Maintenance	\$ 436,000	215056	CON
2022	2	Battle Creek	Washington Ave	from Goodale Ave southward to Michigan Ave (M-89)	1.15	Mill & Resurface	\$ 590,552	207347	CON
2022	3	Calhoun County	Areawide Tree Removal	along H Dr S from 6 Mile Rd eastward to 7.5 Mile Rd; along 7 Mile Rd from K Dr S southward 0.5 mi to to Newton/Burlington twps boundary; along 12 Mile Rd from B Dr S southward to Dr S.	5.39	Tree removal	\$ 439,776	211856	CON
2022	4	Calhoun County	Beadle Lake Rd	from B Dr N northward to exit/entrance ramps south of I-94	1.42	Resurfacing	\$ 290,422	213043	CON
2022	5	Calhoun County	F Dr N	from Wattles Rd eastward ~0.81 mi to Flex-n-Gate driveway	0.81	Crush & shape and asphalt resurfacing	\$ 359,875	207408	CON
2022	6	Calhoun County	K Dr S, Phase II	from 6 Mile Road eastward to 7.5 Mile Road	1.54	Crush & shape and asphalt resurfacing	\$ 789,048	207425	CON
2022	7	Calhoun County	Main St, full resurfacing, Emmett Twp	from M-96 (Columbia Ave) to City limits (~180' south of Kingman)	0.30	HMA mill & resurface (3") with ADA ramp upgrades	\$ 167,792	207496	CON
2022	8	Calhoun County	Raymond Road N bridge	Raymond Road North over Michigan Department of Transportation Railroad	0.00	Bridge Rehabilitation	\$ 1,129,000	209858	CON
2022	9	Calhoun County	Signal Upgrade - 6.5 Mi Rd @ Harper Village Dr	Signalized intersection of 6.5 Mi Rd and Harper Village Dr	0.00	Upgrade/modernize existing signals, including video detection system	\$ 285,000	207465	CON
2022	10	Calhoun County	U Dr N	U Drive N at 1 Mile Road, Calhoun County	0.25	Install overhead flashing beacons	\$ 27,372	211886	CON
2022	11	MDOT	I-194/M-66 bridges	over I-94	0.00	Full Paint, Substr Horizontal Surf Coating, Elas Bearing Repl, Joint Reseal	\$ 1,754,437	204349	CON
2022	12	MDOT	I-194/M-66 Corridor PEL Study	Glenn Cross Road to Capital Avenue	6.79	Planning Environmental Linkage (PEL) study to consider alternative configurations of existing freeway in advance of reconstruction expected necessary before 2030.	\$ 650,000	200566	EPE
2022	13	MDOT	I-94	from I-94BL/M-96 (Michigan Ave) overpass eastward ~1.1 mi to Emmett/Marshall townships line (BCATS area eastern boundary). Part of larger project extending eastward to 17.5 Mile Rd (excluding thru I-69 interchange).	1.10	Milling and one course asphalt overlay	\$ 867,219	210837	CON
2022	14	MDOT	I-94 bridges	over Riverside Drive	0.00	Thin Epoxy Ovly, Sleeper Slab Repl, Approach Repl, Expansion Joint Repl	\$ 906,000	204348	CON
2022	15	MDOT	I-94 E	I-94 Existing Dynamic Message Signs (DMS)	0.00	Install seventeen (17) CCTV cameras on existing DMS.	\$ 12,393	207433	PE
2022	16	MDOT	I-94 Rebuilding Michigan (RBMP) project	from west of Helmer Rd eastward to east of F Dr N (including bridges & interchanges at Capital Ave and M-294 (Beadle Lake Rd), and bridges at Kalamazoo River, 6.5 Mi Rd, 9 Mi Rd, and F Dr N)	8.13	Milling and two course asphalt resurfacing, bridge replacement, temporary widening, bridge railing repair and interchange reconstruction.	\$ 50,000	210073	ROW
2022	17	MDOT	I-94 Rebuilding Michigan (RBMP) project	from west of Helmer Rd eastward to east of F Dr N (including bridges & interchanges at Capital Ave and M-294 (Beadle Lake Rd), and bridges at Kalamazoo River, 6.5 Mi Rd, 9 Mi Rd, and F Dr N)	8.13	Milling and two course asphalt resurfacing (to 6.5 Mi Rd), bridge replacement, temporary widening, bridge railing repair and interchange reconstruction.	\$ 114,660,892	210073	CON
2022	18	MDOT	I-94 Road & Bridge Scoping	I-94 from Kalamazoo County line east to 3000' west of Helmer Road. And M-37 (Columbia Ave) over the GTW RR	6.43	Road and Bridge Scoping FY2022	\$ 360,000	214331	EPE
2022	19	MDOT	I-94BL (Michigan Ave E)	I-94BL as Main St from Dickman Rd E northwestward to Hamblin Ave, then briefly northeastward on Hamblin Ave to Michigan Ave E, the eastward on Michigan Ave to 9 1/2 Mile Rd (Wattles Rd) in Emmett Twp, Calhoun County	3.92	Milling and two course asphalt overlay with sidewalk improvements	\$ 797,500	214871	PE
2022	20	MDOT	I-94BL (Michigan Ave) bridge	over I-94	0.00	Barrier Repl, Deck Patching, H/S, Latex Bm Repr, Substr Patching, CSC	\$ 930,000	201957	CON
2022	21	MDOT	M-311 (11 Mile Rd) bridge	M-311 over I-94	0.00	Shallow overlay with barrier replacement.	\$ 959,814	212581	CON
2022	22	MDOT	M-37 (Bedford Rd N), M-66 (Capital Ave NE), & M-78	entireties of M-37 in Bedford Twp and M-66 & M-78 in Pennfield Twp	8.94	Single course chip seal with fog seal	\$ 30,000	213288	PE
2022	23	MDOT	M-37 (Helmer Rd/Bedford Rd)	Dickman Road (M-96) to Creekview Drive in Calhoun County	2.87	Milling and two course asphalt resurfacing	\$ 6,820,000	210067	CON
2022	24	MDOT	M-66	L Drive South to D Drive South in Leroy Township, Calhoun County	4.02	Milling and one course asphalt overlay	\$ 1,215,000	208374	CON
2022	25	MDOT	M-96 (Dickman Rd)	from county line just west of Armstrong Rd eastward to M-37 (Helmer Rd) west junction	4.45	Milling and one course asphalt overlay with sidewalk ramp improvements. Additional depth repairs at designated locations.	\$ 45,000	213296	PE
2022	26	MDOT	Regionwide bridge inspections	1199-M-66 ober Battle Creek River, 1200-I-194 over Kalamazoo River, 1413-M-37 (Bedford Rd) over Kalamazoo River	0.00	Underwater Inspection of Bridges	\$ 32,813	204289	OPS
2022	27	MDOT	Regionwide intersection traffic detection for signal actuation	M-37 (Bedford) at Jackson Street M-89 (Washington Ave) at Hamblin Ave	0.00	Installation of detection for actuation	\$ 86,000	200693	CON
2022	28	MDOT	Regionwide longitudinal pavement markings	All of BCATS MPO	1.31	Longitudinal pavement marking application on trunklines in Southwest Region	\$ 900	207328	PE
2022	29	MDOT	Regionwide longitudinal pavement markings	All of BCATS MPO	1.31	Longitudinal pavement marking application on trunklines in Southwest Region	\$ 200,700	207328	CON
2022	30	MDOT	Regionwide special pavement markings	All of BCATS MPO	2.83	Special pavement marking application on trunklines in Southwest Region	\$ 900	207329	PE
2022	31	MDOT	Regionwide special pavement markings	All of BCATS MPO	2.83	Special pavement marking application on trunklines in Southwest Region	\$ 41,400	207329	CON
2022	32	MDOT	Southwest Regionwide Pvmr Mrkg Retro Readings	All of BCATS MPO	1.65	Pavement mrrkg retroreflectivity readings on trunklines in Southwest Region	\$ 990	207341	CON
2022	33	MDOT	Trunkline Non-Freeway Signing	Various trunkline non-freeway routes in the BCATS MPO area	137.12	Non-freeway signing replacement/upgrade,	\$ 168,500	202655	PE

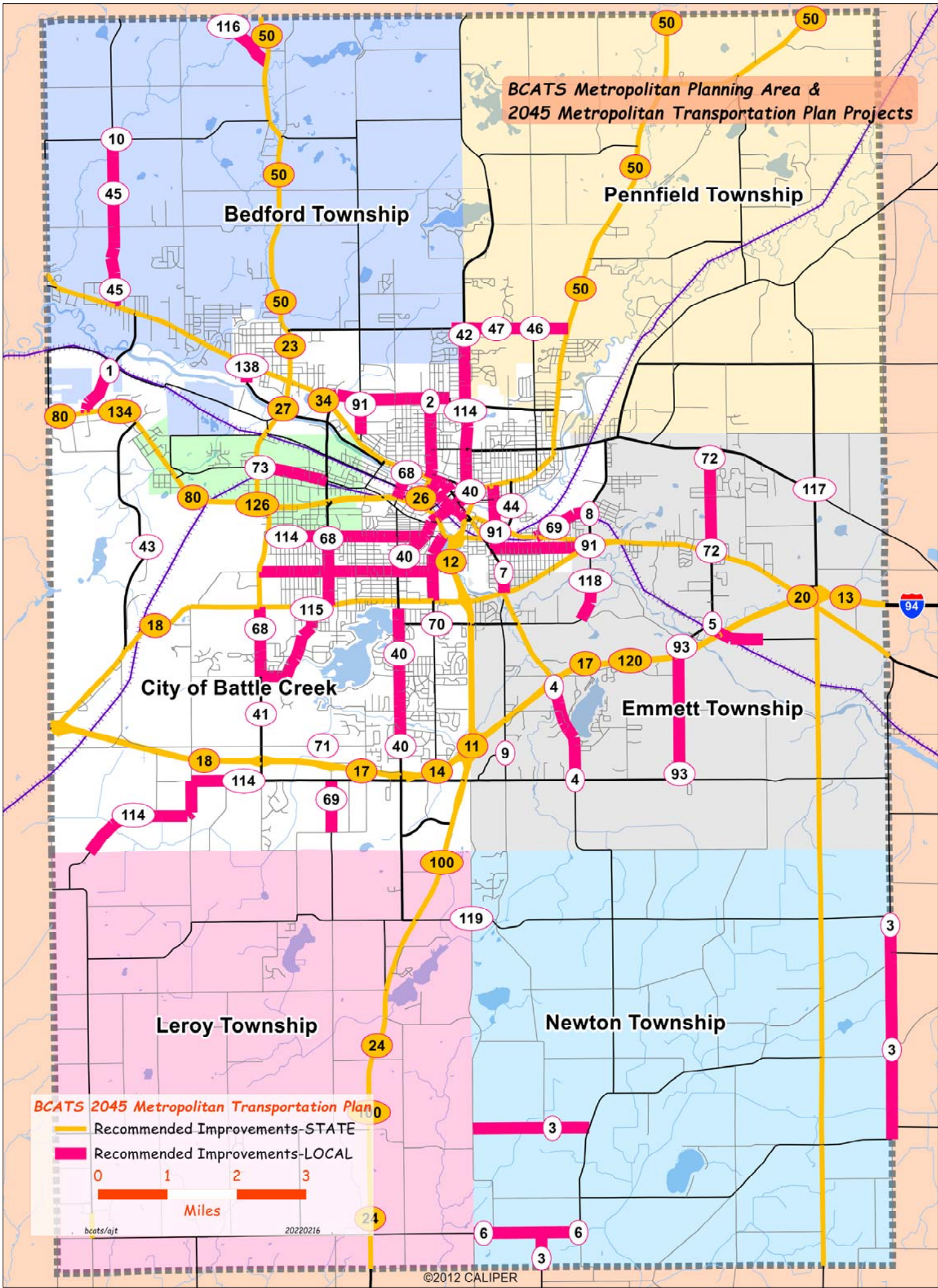
YEAR	BCATS 2045 MTP ID#	RESPONSIBLE AGENCY	PROJECT NAME	LIMITS	LENGTH (miles)	PROJECT DESCRIPTION	TOTAL ESTIMATED AMOUNT (\$)	MDOT JN	PHASE
2022	34	MDOT	Trunkline Signal Modernization	4 intersections: M-89 (Michigan) @ Stringham Rd; M-89 (Michigan) @ VanBuren; I-94BL (Michigan) @ Charlton (fire station); M-89 (Michigan) @ Kimber (fire station).	0.00	Traffic Signal Modernization; connected vehicle installations	\$ 774,092	206134	CON
2022	35	Battle Creek Transit	Transit Capital - Battle Creek Transit, Sec5339. Farebox System Replacement	Areawide - Battle Creek Transit	0.00	Farebox upgrade (qty up to 25)	\$ 178,406	208237	Non-Infrastructure (NI)
2022	36	Battle Creek Transit	Transit Capital (Mobility Management) - Battle Creek Transit (BCT), Sec5310	Areawide/Battle Creek/Calhoun County	0.00	Continuation of Mobility Management to coordinate countywide transportation efforts and centralized dispatch coordinating service between multiple providers	\$ 82,500	212168	Non-Infrastructure (NI)
2022	37	Battle Creek Transit	Transit Operating - Battle Creek Transit (BCT), Sec5310 New Freedom	BC Transit service areawide/City of Battle Creek	0.00	New Freedom operating assistance, demand response service expansion beyond existing route hours & boundaries. JNs 212946 & 212169 for FY22.	\$ 459,990		Non-Infrastructure (NI)
2022	38	Battle Creek Transit	Transit Operating - Battle Crk Transit, Fed+State+Local	Areawide - Battle Creek Transit	0.00	Operating Assistance - FTA Sec5307, State CTF, and Local	\$ 4,223,990		Non-Infrastructure (NI)
2022	39	Battle Creek Transit & Local Human Services Agencies	Transit Operating - Specialized Services FY22	Areawide/Battle Creek/Calhoun County. For local human services agencies - Community Action, Community Inclusive Recreation, Marian Burch Adult DayCare Center, and BCT.	0.00	State operating assistance for services for elderly & individuals w/disabilities under FY22 SpecSrvc Prog	\$ 108,434		Non-Infrastructure (NI)
2023	40	Battle Creek	Capital Ave SW+NE, four segments	Dickman--Fairfield, Weeks--Rebecca, Dickman--Michigan, Michigan--Cherry	3.74	HMA mill & resurface with ADA ramp upgrades	\$ 1,152,000	207416	CON
2023	41	Battle Creek	Helmer Rd S at Potters Dr	Helmer Road S at Potters Dr, city of Battle Creek	0.07	Installation of overhead flashing beacon	\$ 30,000	214633	CON
2023	42	Battle Creek	North Ave (6 Mile Rd)	E Roosevelt Ave northward to Morgan Rd	1.11	Mill & Resurface, ADA ramps as necessary. Joint City BC & CCRD project, CCRD section north of Coolidge.	\$ 413,573	215397	CON
2023	43	Battle Creek	Roundabout - Skyline Dr and Hill Brady Rd	at intersection of Skyline Dr and Hill Brady Rd, also with Logistics Dr to southeast and planned new entrance to Air National Guard base to the northeast		In connection with the ANG base entrance upgrades, the existing signalized "T" intersection will be changed to a two lane 4-leg roundabout, increasing level of service & safety, and reducing delay & emissions.	\$ 2,000,000		CON
2023	44	Battle Creek	Union Street S bridge	Union Street S, Str #1408 over the Battle Creek River, City of Battle Creek	0.00	Bridge Rehabilitation	\$ 2,483,000	212288	CON
2023	45	Calhoun County	1 Mile Rd (Uldriks)	1 Mile Road from M-89 to U Drive N, Calhoun County	2.43	Tree removal and clearing	\$ 173,000	214629	CON
2023	46	Calhoun County	Morgan Rd (O Dr N)	from North Ave (6 Mile Rd) eastward to M-66 (Capital Ave NE)	1.50	Mill & Resurface	\$ 405,964	207393	CON
2023	47	Calhoun County	Morgan Rd (O Dr N)	O Drive N from 6 Mile Road to M-66, Calhoun County	1.50	Installation of recessed wet reflective centerline & edge/pave markings	\$ 52,669	214631	CON
2023	48	Calhoun County	Signal Upgrade - Morgan Rd @ North Ave	Signalized intersection of Morgan Rd and North Ave	0.00	Upgrade/modernize existing signals, including video detection system	\$ 285,000	207469	CON
2023	49	MDOT	I-94, Calhoun County	I-94 Existing Dynamic Message Signs (DMS)	0.00	Install seventeen (17) CCTV cameras on existing DMS.	\$ 60,264	207433	CON
2023	50	MDOT	M-37 (Bedford Rd N), M-66 (Capital Ave NE), & M-78	entireties of M-37 in Bedford Twp and M-66 & M-78 in Pennfield Twp	8.94	Single course chip seal with fog seal	\$ 830,000	213288	CON
2023	51	MDOT	M-66 northbound	from Beckley Rd to I-94	0.28	Construct auxiliary lane on M-66 NB between Beckley Rd. and I-94.	\$ 115,000	210822	PE
2023	52	MDOT	M-89 (Washington Ave) bridge	over GTW RR & Kalamazoo River	0.00	Epoxy Overlay, Dk Patch, Full depth patch, substructure Repr, Jts, Appr	\$ 995,000	203293	CON
2023	53	MDOT	M--96 (Columbia Ave) bridges	over I-194	0.23	Full Depth Deck Patching, Concrete Deep Overlay, Full Paint, Beam Repairs	\$ 2,657,000	208435	CON
2023	54	MDOT	M-96/M-37/I-94BL (Helmer Rd)	Helmer Rd between Territorial and Dickman	0.96	Convert 4 lanes to 5 lane section.	\$ 395,125	210823	PE
2023	55	MDOT	Regionwide longitudinal pavement markings	All of BCATS MPO	0.98	Longitudinal pavement marking application on trunklines in Southwest Region	\$ 900	207365	PE
2023	56	MDOT	Regionwide longitudinal pavement markings	All of BCATS MPO	0.98	Longitudinal pavement marking application on trunklines in Southwest Region	\$ 200,700	207365	CON
2023	57	MDOT	Regionwide special pavement markings	All of BCATS MPO	1.19	Special pavement marking application on trunklines in Southwest Region	\$ 900	207367	PE
2023	58	MDOT	Regionwide special pavement markings	All of BCATS MPO	1.19	Special pavement marking application on trunklines in Southwest Region	\$ 50,400	207367	CON
2023	59	MDOT	Southwest Regionwide Pvmr Mrkg Retro Readings	All of BCATS MPO	1.72	Pvmt marking retroreflectivity readings on trunklines in Southwest Region	\$ 990	207378	CON
2023	60	MDOT	TSC-wide Signal Modernizations	6 locations: I-94BL, M-96 (Dickman) at M-37 W Jct (Helmer); I-94BL, M-96 (Dickman) at M-37 E Jct (Helmer); M-96 (Columbia) at 28th; M-89 (Michigan) at 20th; M-89 (Washington) at M-89 (Michigan); I-94BL (Michigan) at M-96 (Columbia).	0.00	Modernize signalized intersections	\$ 340,217	214181	PE
2023	61	Battle Creek Transit	Transit Capital - Battle Creek Transit, Sec5339. Farebox System Replacement	Areawide - Battle Creek Transit	0.00	Farebox upgrade (qty up to 25) (combined with FY 2022)	\$ 178,406	208238	Non-Infrastructure (NI)
2023	62	Battle Creek Transit	Transit Capital (Mobility Management) - Battle Creek Transit (BCT), Sec5310	Areawide/Battle Creek/Calhoun County	0.00	Continuation of Mobility Management to coordinate countywide transportation efforts and centralized dispatch coordinating service between multiple providers	\$ 85,000		Non-Infrastructure (NI)
2023	63	Battle Creek Transit	Transit Operating - Battle Creek Transit (BCT), Sec5310 New Freedom	BC Transit service areawide/City of Battle Creek	0.00	New Freedom operating assistance, demand response service expansion beyond existing route hours & boundaries.	\$ 459,990		Non-Infrastructure (NI)
2023	64	Battle Creek Transit	Transit Operating - Battle Crk Transit, Fed+State+Local	Areawide - Battle Creek Transit	0.00	Operating Assistance - FTA Sec5307, State CTF, and Local	\$ 4,280,170		Non-Infrastructure (NI)
2023	65	Battle Creek Transit & Local Human Services Agencies	Transit Operating - Specialized Services FY23	Areawide/Battle Creek/Calhoun County. For local human services agencies - Community Action, Community Inclusive Recreation, Marian Burch Adult DayCare Center, and BCT.	0.00	State operating assistance for services for elderly & individuals w/disabilities under FY23 SpecSrvc Prog	\$ 108,434		Non-Infrastructure (NI)
2023	66	Community Action	Transit Capital - Community Action (CA), Sec5310	Computer equipment at CA central office to support areawide transit service for elderly & individuals w/disabilities	0.00	Purchase 3 computers and 9 monitors	\$ 6,000	215195	Non-Infrastructure (NI)
2023	67	Community Inclusive Recreation	Transit Capital - Community Inclusive Recreation (CIR), Sec5310	Areawide/Calhoun County	0.00	Purchase 1 (one) replacement bus	\$ 79,000	210666	Non-Infrastructure (NI)

YEAR	BCATS 2045 MTP ID#	RESPONSIBLE AGENCY	PROJECT NAME	LIMITS	LENGTH (miles)	PROJECT DESCRIPTION	TOTAL ESTIMATED AMOUNT (\$)	MDOT JN	PHASE
2024	68	Battle Creek	City BC CPM (Helmer, Kendall, 20th, Hamblin, Territorial)	Helmer Rd from Gettings Rd to Columbia Ave (M-96); Kendall St from Dickman Rd (M-96) to Michigan Ave (M-89); 20th St from Columbia Ave (M-96) to Goguac St; Hamblin Ave from Washington Ave (M-89) to Division St (I-194/M-66); Territorial Rd from Helmer Rd (M-37) to Riverside Dr.	5.67	Single chipseal w/ fog seal	\$ 400,000		CON
2024	69	Battle Creek	City BC Rehab (Michigan, Porter, Sonoma)	Michigan Ave from Washington Ave to State St; Porter St from Michigan Ave to Raymond Rd; Sonoma Rd from Minges Rd to Beckley Rd.	2.17	HMA mill and resurface with ADA ramp upgrades and associated items	\$ 450,000		CON
2024	70	Battle Creek	CMAQ Signal Modernization - GOLDEN @ RIVERSIDE	intersection of Golden Ave and Riverside Dr		Remove and replace signal with modernized box span configuration	\$ 280,700		CON
2024	71	Battle Creek	Watkins Rd bridge	Watkins Rd bridge over Minges Brook		Bridge Rehabilitation	\$ 660,000		CON
2024	72	Calhoun County	Wattles Rd N	Michigan Ave to Verona	1.51	Mill (1.5") & resurface (3") existing travel lanes, bike lanes, and non-motorized paths. New signage & pavement markings.	\$ 830,515		CON
2024	73	Springfield	Avenue A	from Helmer Rd eastward to 20th St	1.00	2-inch Mill & Fill overlay resurfacing, possibly in conjunction with water main improvements.	\$ 326,206		CON
2024	74	MDOT	I-194 bridges	over Kalamazoo River, Calhoun County	0.00	Bridge Replacement, Approaches	\$ 17,620,000	210024	CON
2024	75	MDOT	I-94 Battle Creek Rest Area - Building Reconstruction	Battle Creek Rest Area on south side of eastbound I-94 between Helmer Rd exit 95 and Capital Ave exit 97	0.00	Reconstruct the Battle Creek Rest Area Building. \$520,000 PE phase obligated 06/03/2021.	\$ 4,500,000	212098	CON
2024	76	MDOT	M-66	M-66 from Glenn Cross Rd south to Athens Twp Border	13.72	Fixed Object Removal	\$ 73,226	211892	PE
2024	77	MDOT	M-66 northbound	from Beckley Rd to I-94	0.28	Construct auxiliary lane on M-66 NB between Beckley Rd. and I-94.	\$ 670,000	210822	CON
2024	78	MDOT	M-89 (Washington Ave) bridge	over Battle Creek River, Battle Creek, Calhoun County	0.00	Superstructure Replacement	\$ 727,381	213719	PES
2024	79	MDOT	M-89 (Washington Ave) bridge	over Battle Creek River, Battle Creek, Calhoun County	0.00	Superstructure Replacement	\$ 74,419	213719	PE
2024	80	MDOT	M-96 (Dickman Rd)	from county line just west of Armstrong Rd eastward to M-37 (Helmer Rd) west junction	4.45	Milling and one course asphalt overlay with sidewalk ramp improvements. Additional depth repairs at designated locations.	\$ 2,709,000	213296	CON
2024	81	MDOT	Regionwide longitudinal pavement markings	All of BCATS MPO	2.88	Longitudinal pavement marking application on trunklines in Southwest Region	\$ 900	207391	PE
2024	82	MDOT	Regionwide longitudinal pavement markings	All of BCATS MPO	2.88	Longitudinal pavement marking application on trunklines in Southwest Region	\$ 200,700	207391	CON
2024	83	MDOT	Regionwide special pavement markings	All of BCATS MPO	3.82	Special pavement marking application on trunklines in Southwest Region	\$ 900	207392	PE
2024	84	MDOT	Regionwide special pavement markings	All of BCATS MPO	3.82	Special pavement marking application on trunklines in Southwest Region	\$ 41,400	207392	CON
2024	85	MDOT	Southwest Regionwide Pvmr Mrkg Retro Readings	All of BCATS MPO	1.69	Pavement mrkg retroreflectivity readings on trunklines in Southwest Region	\$ 990	207403	CON
2024	86	Battle Creek Transit	Transit Capital - Battle Creek Transit, Sec5339. Three mini-vans.	Areawide - Battle Creek Transit		Three 6-passenger mini-vans, accessible with ramp	\$ 178,406		Non-Infrastructure (NI)
2024	87	Battle Creek Transit	Transit Capital (Mobility Management) - Battle Creek Transit (BCT), Sec5310	Areawide/Battle Creek/Calhoun County	0.00	Continuation of Mobility Management to coordinate countywide transportation efforts and centralized dispatch coordinating service between multiple providers	\$ 87,550		Non-Infrastructure (NI)
2024	88	Battle Creek Transit	Transit Operating - Battle Creek Transit (BCT), Sec5310 New Freedom	BC Transit service areawide/City of Battle Creek	0.00	New Freedom operating assistance, demand response service expansion beyond existing route hours & boundaries.	\$ 459,990		Non-Infrastructure (NI)
2024	89	Battle Creek Transit	Transit Operating - Battle Crk Transit, Fed+State+Local	Areawide - Battle Creek Transit	0.00	Operating Assistance - FTA Sec5307, State CTF, and Local	\$ 4,337,474		Non-Infrastructure (NI)
2024	90	Battle Creek Transit & Local Human Services Agencies	Transit Operating - Specialized Services FY24	Areawide/Battle Creek/Calhoun County. For local human services agencies - Community Action, Community Inclusive Recreation, Marian Burch Adult DayCare Center, and BCT.	0.00	State operating assistance for services for elderly & individuals w/disabilities under FY24 SpecSrvcs Prog	\$ 108,434		Non-Infrastructure (NI)
2025	91	Battle Creek	City BC Rehab (Limit, Elm, Riverside, Cliff)	Limit St from Parkway Dr to Goodale Ave; Elm St from Cliff St to Capital Ave NE; Riverside Dr from Columbia Ave to Dickman Rd; Cliff St from Main St to Raymond Rd.		HMA mill and resurface with ADA ramp upgrades and associated items. CCRD section of Cliff St included in this City BC project.	\$ 823,152		CON
2025	92	Battle Creek	CMAQ Signal Modernization - MCCAMLY @ VANBUREN	intersection of McCamly St and VanBuren St		Removal and replacement of mast arm signal components	\$ 370,000		CON
2025	93	Calhoun County	Wattles Rd S	B Dr N to G Dr N	2.02	Pulverize existing roadway and resurface over the graded and compacted crushed asphalt. Roadway to be trenched and widened to provide a 6 foot shoulder (3 foot paved & 3 foot gravel). No non-motorized component to this project.	\$ 1,221,750		CON
2025	94	MDOT	I-194/M-66 NB & SB bridges	over Golden Avenue, City of Battle Creek, Calhoun County	0.00	Shallow Overlay	\$ 91,301	213631	PES
2025	95	MDOT	I-194/M-66 NB & SB bridges	over Golden Avenue, City of Battle Creek, Calhoun County	0.00	Shallow Overlay	\$ 43,219	213631	PE
2025	96	MDOT	I-94 Battle Creek Rest Area - Landscaping	Battle Creek Rest Area on south side of eastbound I-94 between Helmer Rd exit 92 and Capital Ave exit 95	0.00	Battle Creek Rest Area Landscaping after Rebuild	\$ 25,000	212773	PE
2025	97	MDOT	I-94 Battle Creek Rest Area - Landscaping	Battle Creek Rest Area on south side of eastbound I-94 between Helmer Rd exit 95 and Capital Ave exit 97	0.00	Battle Creek Rest Area Landscaping after Rebuild	\$ 65,000	212773	CON
2025	98	MDOT	I-94 Crash Investigation Sites	Design two crash investigation sites in Calhoun county.	4.07	Construct crash investigation sites on I-94	\$ 74,290	211804	PE
2025	99	MDOT	I-94BL (Michigan Ave E)	I-94BL as Main St from Dickman Rd E northwestward to Hamblin Ave, then briefly northeastward on Hamblin Ave to Michigan Ave E, the eastward on Michigan Ave to 9 1/2 Mile Rd (Wattles Rd) in Emmett Twp, Calhoun County	3.92	Milling and two course asphalt overlay with sidewalk improvements	\$ 25,000	214871	ROW
2025	100	MDOT	M-66	M-66 from Glenn Cross Rd south to Athens Twp Border	13.72	Fixed Object Removal	\$ 286,871	211892	CON
2025	101	MDOT	M-96/M-37/I-94BL (Helmer Rd)	Helmer Rd between Territorial and Dickman	0.96	Convert 4 lanes to 5 lane section.	\$ 2,446,596	210823	CON
2025	102	MDOT	Regionwide longitudinal pavement markings	All of BCATS MPO	2.79	Longitudinal pavement marking application on trunklines in Southwest Region	\$ 900	209623	PE

YEAR	BCATS 2045 MTP ID#	RESPONSIBLE AGENCY	PROJECT NAME	LIMITS	LENGTH (miles)	PROJECT DESCRIPTION	TOTAL ESTIMATED AMOUNT (\$)	MDOT JN	PHASE
2025	103	MDOT	Regionwide longitudinal pavement markings	All of BCATS MPO	2.79	Longitudinal pavement marking application on trunklines in Southwest Region	\$ 200,700	209623	CON
2025	104	MDOT	Regionwide special pavement markings	All of BCATS MPO	2.84	Special pavement marking application on trunklines in Southwest Region	\$ 900	209624	PE
2025	105	MDOT	Regionwide special pavement markings	All of BCATS MPO	2.84	Special pavement marking application on trunklines in Southwest Region	\$ 41,400	209624	CON
2025	106	MDOT	Southwest Regionwide Pvmr Mrkg Retro Readings	All of BCATS MPO	2.03	Pvmr mrkg retroreflectivity readings on trunklines in Southwest Region	\$ 990	209634	CON
2025	107	MDOT	Trunkline Non-Freeway Signing	Various trunkline non-freeway routes in the BCATS MPO area	137.12	Non-freeway signing replacement/upgrade,	\$ 1,046,500	202655	CON
2025	108	MDOT	TSC-wide Signal Modernizations	6 locations: I-94BL, M-96 (Dickman) at M-37 W Jct (Helmer); I-94BL, M-96 (Dickman) at M-37 E Jct (Helmer); M-96 (Columbia) at 28th; M-89 (Michigan) at 20th; M-89 (Washington) at M-89 (Michigan); I-94BL (Michigan) at M-96 (Columbia).	0.00	Modernize signalized intersections	\$ 7,500	214181	ROW
2025	109	Battle Creek Transit	Transit Capital - Battle Creek Transit, Sec5339. Equipment replacement.	Areawide - Battle Creek Transit		Replace 5 complete office suites, dispatch furniture, and related computer equipment, including computers, monitors, and computer accessories.	\$ 178,406		Non-Infrastructure (NI)
2025	110	Battle Creek Transit	Transit Capital (Mobility Management) - Battle Creek Transit (BCT), Sec5310	Areawide/Battle Creek/Calhoun County	0.00	Continuation of Mobility Management to coordinate countywide transportation efforts and centralized dispatch coordinating service between multiple providers	\$ 90,176		Non-Infrastructure (NI)
2025	111	Battle Creek Transit	Transit Operating - Battle Creek Transit (BCT), Sec5310 New Freedom	BC Transit service areawide/City of Battle Creek	0.00	New Freedom operating assistance, demand response service expansion beyond existing route hours & boundaries.	\$ 459,990		Non-Infrastructure (NI)
2025	112	Battle Creek Transit	Transit Operating - Battle Crk Transit, Fed+State+Local	Areawide - Battle Creek Transit	0.00	Operating Assistance - FTA Sec5307, State CTF, and Local	\$ 4,395,924		Non-Infrastructure (NI)
2025	113	Battle Creek Transit & Local Human Services Agencies	Transit Operating - Specialized Services FY25	Areawide/Battle Creek/Calhoun County. For local human services agencies - Community Action, Community Inclusive Recreation, Marian Burch Adult DayCare Center, and BCT.	0.00	State operating assistance for services for elderly & individuals w/disabilities under FY25 SpecSrvc Prog	\$ 108,434		Non-Infrastructure (NI)
2026	114	Battle Creek	City BC CPM (Carver, Stone Jug, Beckley, North Ave, Goguac)	Carver from City limits to Stone Jug Rd; Stone Jug Rd from Carver to Beckley Rd; Beckley Rd from Stone Jug Rd to Helmer Rd; North Ave from Capital Ave to Roosevelt Ave; Goguac St from Helmer Rd to Capital Ave.	6.68	Single chipseal w/ fog seal	\$ 324,604		CON
2026	115	Battle Creek	City BC Rehab (Goodale, 24th, Gethings)	Goodale Ave from Michigan Ave to Roosevelt; 24th St from Columbia Ave to Windamere Blvd; Gethings Rd from Helmer to Windamere Blvd.	3.34	HMA mill and resurface with ADA ramp upgrades and associated items	\$ 650,000		CON
2026	116	Calhoun County	Banfield Rd	M-37 (Bedford Rd N) to Baseline Rd	0.96	Overlay existing roadway with 3 inches of HMA. Roadway to be trenched and widened to provide a 3 foot paved shoulder. No non-motorized component to this project. Signage & pavement markings to be updated.	\$ 416,922		CON
2026	117	Calhoun County	CMAQ Signal Modernization - 11 MILE RD @ VERONA	intersection of 11 Mile Rd and Verona Rd		Signal modernization, including new poles and signal heads installed on a box span, and vehicle detection system.	\$ 280,700		CON
2026	118	Calhoun County	Raymond Rd	Golden Ave to E River Rd	0.77	Pulverize existing roadway and resurface over the graded and compacted crushed asphalt. Roadway to be trenched and widened to provide a 6 foot shoulder (3 foot paved & 3 foot gravel). No non-motorized component to this project.	\$ 693,083		CON
2026	119	Calhoun County	Roundabout - B Dr S and 6 Mile Rd	Existing 2-way stop controlled intersection of B Dr S and 6 Mile Rd on Newton/Leroy twps boundary (6 Mile Rd)		Construct a mini-roundabout with a fully mountable center island, splitter islands at approaches, and traffic calming geometry to reduce entering speeds.	\$ 945,000		CON
2026	120	MDOT	I-94 Crash Investigation Sites	Along I-94, one site eastbound & one site westbound between Exit 100 and 9 Mi Rd bridge	4.07	Construct two crash investigation sites in Calhoun county	\$ 517,710	211804	CON
2026	121	MDOT	Regionwide longitudinal pavement markings	All trunkline routes in BCATS MPO	3.61	Application of longitudinal pavement markings on Southwest Region trunkline	\$ 900	213341	PE
2026	122	MDOT	Regionwide longitudinal pavement markings	All trunkline routes in BCATS MPO	3.61	Application of longitudinal pavement markings on Southwest Region trunkline	\$ 187,200	213341	CON
2026	123	MDOT	Regionwide special pavement markings	All trunkline routes in BCATS MPO	2.97	Application of special pavement markings on Southwest Region trunkline	\$ 900	213342	PE
2026	124	MDOT	Regionwide special pavement markings	All trunkline routes in BCATS MPO	2.97	Application of special pavement markings on Southwest Region trunkline	\$ 34,650	213342	CON
2026	125	MDOT	Southwest Regionwide Pvmr Mrkg Retro Readings	All of BCATS MPO	19.43	Pvmr mrkg retroreflectivity readings on trunklines in Southwest Region	\$ 990	213371	CON
2026	126	MDOT	TSC-wide Signal Modernizations	6 locations: I-94BL, M-96 (Dickman) at M-37 W Jct (Helmer); I-94BL, M-96 (Dickman) at M-37 E Jct (Helmer); M-96 (Columbia) at 28th; M-89 (Michigan) at 20th; M-89 (Washington) at M-89 (Michigan); I-94BL (Michigan) at M-96 (Columbia).	0.00	Modernize signalized intersections	\$ 2,248,509	214181	CON
2026	127	Battle Creek Transit	Transit Capital - Battle Creek Transit, Sec5339. Miscellaneous Shop Equipment.	Areawide - Battle Creek Transit		Miscellaneous shop equipment (vehicle hoist, diesel tools, etc.)	\$ 178,406		Non-Infrastructure (NI)
2026	128	Battle Creek Transit	Transit Capital (Mobility Management) - Battle Creek Transit (BCT), Sec5310	Areawide/Battle Creek/Calhoun County	0.00	Continuation of Mobility Management to coordinate countywide transportation efforts and centralized dispatch coordinating service between multiple providers	\$ 92,883		Non-Infrastructure (NI)
2026	129	Battle Creek Transit	Transit Operating - Battle Creek Transit (BCT), Sec5310 New Freedom	BC Transit service areawide/City of Battle Creek	0.00	New Freedom operating assistance, demand response service expansion beyond existing route hours & boundaries.	\$ 459,990		Non-Infrastructure (NI)
2026	130	Battle Creek Transit	Transit Operating - Battle Crk Transit, Fed+State+Local	Areawide - Battle Creek Transit	0.00	Operating Assistance - FTA Sec5307, State CTF, and Local	\$ 4,455,542		Non-Infrastructure (NI)
2026	131	Battle Creek Transit & Local Human Services Agencies	Transit Operating - Specialized Services FY26	Areawide/Battle Creek/Calhoun County. For local human services agencies - Community Action, Community Inclusive Recreation, Marian Burch Adult DayCare Center, and BCT.	0.00	State operating assistance for services for elderly & individuals w/disabilities under FY26 SpecSrvc Prog	\$ 108,434		Non-Infrastructure (NI)
2027	132	MDOT	I-194/M-66 NB & SB bridges	over Golden Avenue, City of Battle Creek, Calhoun County	0.00	Shallow Overlay	\$ 1,289,150	213631	CON
2027	133	MDOT	M-89 (Washington Ave) bridge	over Battle Creek River, Battle Creek, Calhoun County	0.00	Superstructure Replacement	\$ 4,730,000	213719	CON

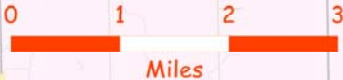
YEAR	BCATS 2045 MTP ID#	RESPONSIBLE AGENCY	PROJECT NAME	LIMITS	LENGTH (miles)	PROJECT DESCRIPTION	TOTAL ESTIMATED AMOUNT (\$)	MDOT JN	PHASE
2027	134	MDOT	M-96 (Dickman Rd) Trail	along north side of M-96 from Fort Custer National Cemetery (in Kalamazoo County) eastward ~ one mile crossing Armstrong Rd into Calhoun County (and City BC) to old Avenue A intersection/connector path to Evergreen Rd/American Legion Dr in Springfield	3.20	Rehabilitate existing 8'-12' wide asphalt path, add & update ADA ramps as necessary. Approximately 2.1 miles in Calhoun County and 1.1 miles in Kalamazoo County.	\$ 650,000		Non-Infrastructure (NI)
2027	135	MDOT	Southwest Regionwide Pvmr Mrkg Retro Readings	All of BCATS MPO	28.35	Pvmr mrkg retroreflectivity readings on trunklines in Southwest Region	\$ 990	213379	CON
2027	136	Battle Creek Transit	Large Bus Replacements (4), 2027	large buses used for BCT's fixed-route line-haul service within BCT service area		replace four (4) 35-40' large buses @ \$625,000 ea.	\$ 2,500,000		Non-Infrastructure (NI)
2028	137	Battle Creek Transit	New Transit Facility Build	rebuild BCT central offices & garage at location TBD		replace/relocate BCT central offices & garage	\$ 13,100,000		Non-Infrastructure (NI)
2029	138	Battle Creek	Stringham Rd Non-motorized Connector	from W Jackson Rd northward to M-89 (Michigan Ave)	0.26	Reconfigure four-lane roadway to accommodate pedestrian and non-motorized travel from M-89 to connect to BC Linear Park at Jackson/Stringham intersection adjacent to Kalamazoo River	\$ 450,000		Non-Infrastructure (NI)
2029	139	MDOT	I-94BL (Michigan Ave E)	I-94BL as Main St from Dickman Rd E northwestward to Hamblin Ave, then briefly northeastward on Hamblin Ave to Michigan Ave E, the eastward on Michigan Ave. to 9 1/2 Mile Rd (Wattles Rd) in Emmett Twp, Calhoun County	3.92	Milling and two course asphalt overlay with sidewalk improvements	\$ 7,177,500	214871	CON
2029	140	Battle Creek Transit	Small Bus Replacements (2), 2029	small buses used for BCT's demand-response Tele-Transit service within BCT demand-response service area		replace two (2) cutaway buses @ \$100,000 ea.	\$ 200,000		Non-Infrastructure (NI)
2034	141	Battle Creek Transit	Large Bus Replacements (4), 2034	large buses used for BCT's fixed-route line-haul service within BCT service area		replace four (4) 35-40' large buses @ \$625,000 ea.	\$ 2,500,000		Non-Infrastructure (NI)
2034	142	Battle Creek Transit	Small Bus Replacements (2), 2034	small buses used for BCT's demand-response Tele-Transit service within BCT demand-response service area		replace two (2) cutaway buses @ \$100,000 ea.	\$ 200,000		Non-Infrastructure (NI)
2039	143	Battle Creek Transit	Small Bus Replacements (2), 2039	small buses used for BCT's demand-response Tele-Transit service within BCT demand-response service area		replace two (2) cutaway buses @ \$100,000 ea.	\$ 200,000		Non-Infrastructure (NI)
2041	144	Battle Creek Transit	Large Bus Replacements (4), 2041	large buses used for BCT's fixed-route line-haul service within BCT service area		replace four (4) 35-40' large buses @ \$625,000 ea.	\$ 2,500,000		Non-Infrastructure (NI)
2044	145	Battle Creek Transit	Small Bus Replacements (2), 2044	small buses used for BCT's demand-response Tele-Transit service within BCT demand-response service area		replace two (2) cutaway buses @ \$100,000 ea.	\$ 200,000		Non-Infrastructure (NI)
2022-2045	146	Battle Creek Transit	Annual Transit Security (total expected over 2022-2045 average \$17,800/year)	for Battle Creek Transit		Security related improvements (1% of Federal operating assistance annually)	\$ 427,200		Non-Infrastructure (NI)
2024-2045	147	Local Human Services Agencies	Annual Specialized Services Transit CAPITAL Assistance (total expected over 2024-45, average \$120,000/year)	for local human services agencies - Community Action, Community Inclusive Recreation, Marian Burch Adult DayCare Center.		Fed Sec 5310 (with match from State) transit capital assistance "passed thru" Battle Creek Transit to local human services agencies,	\$ 2,640,000		Non-Infrastructure (NI)
2027-2045	148	Local Road Agencies	Annual Local (non-trunkline) Bridge Replacement & Preservation (total estimated over 2027-45, average \$1.2M/year)	Local (non-trunkline) bridges in the BCATS area		Bridge replacement & preservation	\$ 22,800,000		CON
2027-2045	149	Local Road Agencies	Annual Local CMAQ, Safety, & Non-Pavement Preservation STUL Projects (total planned over 2027-45, average \$1.1M/year)	on Federal-aid eligible roadways under jurisdiction of Battle Creek, Calhoun County, Springfield		CMAQ ~ \$300,000/yr, Safety ~ \$300,000/yr, STUL ~ \$500,000/yr. (specific projects for 2022-26 that are in the current TIP, or to be amended or included in the next TIP thru 2026, are included separately in this list)	\$ 20,900,000		CON
2027-2045	150	Local Road Agencies	Annual Pavement Preservation Strategy Local Agencies (75% of STP Urban Local (STUL) Allocation+Local share) (total planned over 2027-45, average \$1.5M/year)	Capital Preventive Maintenance (CPM) on Federal-aid eligible roadways under jurisdiction of Battle Creek, Calhoun County, Springfield		Resurfacing, rehabilitation, and limited reconstruction (specific CPM projects for 2022-26 that are in the current TIP, or to be amended or included in the next TIP thru 2026, are included separately in this list)	\$ 28,500,000		CON
2027-2045	151	Battle Creek Transit	Annual Transit Capital - Battle Creek Transit, Sec5339. Miscellaneous Equipment & Small Vehicles (total expected over 2027-45, average \$217,100/year)	Areawide - Battle Creek Transit		Farebox system, office furniture, computer equipment, shop equipment/tools, mini-vans, cutaway buses, bus stop shelters, bus stop & route signage.	\$ 4,124,900		Non-Infrastructure (NI)
2027-2045	152	Battle Creek Transit	Annual Transit Capital (Mobility Management) - Battle Creek Transit (BCT), Sec5310 (total expected over 2027-45, average \$118,300/year)	Areawide/Battle Creek/Calhoun County	0.00	Continuation of Mobility Management to coordinate countywide transportation efforts and centralized dispatch coordinating service between multiple providers	\$ 2,247,700		Non-Infrastructure (NI)
2027-2045	153	Battle Creek Transit	Annual Transit Operating - Battle Creek Transit (BCT), Sec5310 New Freedom (total expected over 2027-45, \$459,990/year)	BC Transit service areawide/City of Battle Creek	0.00	New Freedom operating assistance, demand response service expansion beyond existing route hours & boundaries.	\$ 8,739,810		Non-Infrastructure (NI)
2027-2045	154	Battle Creek Transit	Annual Transit Operating Assistance (total expected over 2027-45, average \$4.98M/year)	for Battle Creek Transit		Federal, State, & Local Operating Assistance. Local \$ includes "farebox revenue" from fares, tokens/tickets, passes, misc transp contracts, Auxiliary Trans Revenues (i.e. advertising), NonTrans Revenues, and contribution from City of Battle Creek general fund.	\$ 94,620,000		Non-Infrastructure (NI)
2027-2045	155	Battle Creek Transit & Local Human Services Agencies	Annual Specialized Services Transit OPERATING Assistance (total expected over 2027-45, \$108,434/year)	Areawide/Battle Creek/Calhoun County. For local human services agencies - Community Action, Community Inclusive Recreation, Marian Burch Adult DayCare Center, and BCT.		State transit operating assistance to BCT and "passed thru" Battle Creek Transit to local human services agencies	\$ 2,060,246		Non-Infrastructure (NI)
2028-2045	156	MDOT	Annual MDOT Bridge Replacement & Preservation (total estimated over 2028-45, average \$3.0M/year)	State trunkline bridges in the BCATS area		Bridge replacement & preservation	\$ 54,000,000		CON
2030-2045	157	MDOT	Annual MDOT Road CPM, Rehabilitation, & Reconstruction (total estimated by BCATS for period over 2030-45, average \$6.1M/year)	Capital Preventive Maintenance (CPM), road rehabilitation, & reconstruction of State trunkline system roadways		Road CPM, rehabilitation, & reconstruction. Specific MDOT projects for 2022-29 that are programmed in JobNet to-date are included separately in this list. FY22 I-94 RBMP project (JN-210073, \$114.7M) excluded from calculation of annual average.	\$ 97,600,000		CON
(Planned Capital Expenditures for Financial Plan & Constraint) TOTAL							\$ 591,467,519		

BCATS Metropolitan Planning Area & 2045 Metropolitan Transportation Plan Projects



BCATS 2045 Metropolitan Transportation Plan

- Recommended Improvements-STATE
- Recommended Improvements-LOCAL



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