# FFY 2023-2026 Transportation Improvement Program



## LAWRENCE - DOUGLAS COUNTY



METROPOLITAN PLANNING ORGANIZATION

MPO Policy Board Approval October 27, 2022

Amendment 1: April 20, 2023 Amendment 2: June 15, 2023 Amendment 3: August 17, 2023

# MPO SELF-CERTIFICATION

The Kansas Department of Transportation (KDOT) and the Lawrence - Douglas County Metropolitan Planning Organization (MPO) certify that the metropolitan transportation planning process is being carried out in accordance with all applicable requirements including the following:

- 1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart; All core documents are current:
- 2. In nonattainment and maintenance areas, Sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 USC 7504, 7506 (c) and (d)) and 40 CFR Part 93;
- 3. Title VI of the Civil Rights Act of 1964, as amended (42 USC 2000d-1) and 49 CFR Part 21;
- 4. 49 USC 5332, prohibiting discrimination on the basis of race, color, religion, national origin, sex, disability, or age in employment or business opportunity;
- 5. Section 1101(e) of the Infrastructure Investment and Jobs Act (IIJA) (Pub. L. 117-58) and 49 CFR Part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;
- 6. 23 CFR Part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts,
- 7. The provisions of the Americans with Disabilities Act of 1990 (42 USC 12101 et seq.) and 49 CFR Parts 27, 37, and 38;
- 8. The Older Americans Act, as amended (42 USC 6101), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- 9. Section 324 of Title 23 USC regarding the prohibition of discrimination based on gender; and
- 10. Section 504 of the Rehabilitation Act of 1973 (29 USC 794) and 49 CFR Part 27 regarding discrimination against individuals with disabilities.

Courtney Shipley, Chair

Lawrence-Douglas County MPO

for Mooy

Michael J Moriarty Bureau Chief of Transportation Planning Kansas Department of Transportation

# DEFINITIONS

ADA	ADA- Americans with Disabilities Act of 1990 (P.L. 101-336) and ADA Amendment Act of 2008 (P.L. 110-325)
CAPITAL	Purchase of equipment
CDBG	Community Development Block Grant
CFR	Code of Federal Regulations
CIP	Capital Improvement Plan
CONST	Construction
EJ	Environmental Justice
FAST Act	Fixing America's Surface Transportation Act (P.L. 114-94) (Signed by President Obama on December 4, 2015)
FFY	Federal Fiscal Year
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
ITS	Intelligent Transportation Systems
KDOT	Kansas Department of Transportation
KTA	Kansas Turnpike Authority
KU	University of Kansas, Lawrence
KUOW	KU on Wheels Transit Service
MPO	Metropolitan Planning Organization, such as the Lawrence-Douglas County Metropolitan Planning Organization
MTP	Metropolitan Transportation Plan
NHS	National Highway System
O&M	Operation and Maintenance
OPERATING	Operation of transit
PE	Preliminary Engineering
PPP	Public Participation Plan
ROW	Right-of-Way
RTAC	Regional Transit Advisory Committee
STBG	Surface Transportation Block Grant Program
STIP	Statewide Transportation Improvement Program
STP	Surface Transportation Program
T2040	Transportation 2040 - the Long Range Transportation Plan for the Lawrence-Douglas County region
TAC	Technical Advisory Committee
ТА	Transportation Alternatives (federal grant administered by KDOT)
TIP	Transportation Improvement Program
UPWP	Unified Planning Work Program
USC	United States Code
UTIL	Utilities

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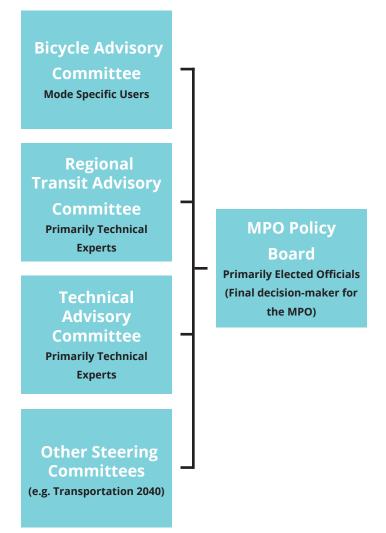
Funding Note: This report was funded in part through grant[s] from the Federal Highway Administration and Federal Transit Administration, U.S. Department of Transportation. The views and opinions of the authors [or agency] expressed herein do not necessarily state or reflect those of the U.S. Department of Transportation.

Title VI Note: The L-DC MPO hereby gives public notice that it is the policy of the agency to assure full compliance with Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987, Executive Order 12898 on Environmental Justice, and related statutes and regulations in all programs and activities. Title VI requires that no person in the United States of America shall, on the grounds of race, color, or national origin, be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the L-DC MPO receives federal financial assistance. Any person who believes they have been aggrieved by an unlawful discriminatory practice under Title VI has a right to file a formal complaint with the L-DC MPO. Any such complaint must be in writing and filed with the L-DC MPO's Title VI Coordinator within one hundred and eighty (180) days following the date of the alleged discriminatory occurrence. For more information, or to obtain a Title VI Discriminatory Complaint Form, please see our website at https://lawrenceks.org/mpo/title6.

# <sup>1</sup> INTRODUCTION ...WHAT IS AN MPO?

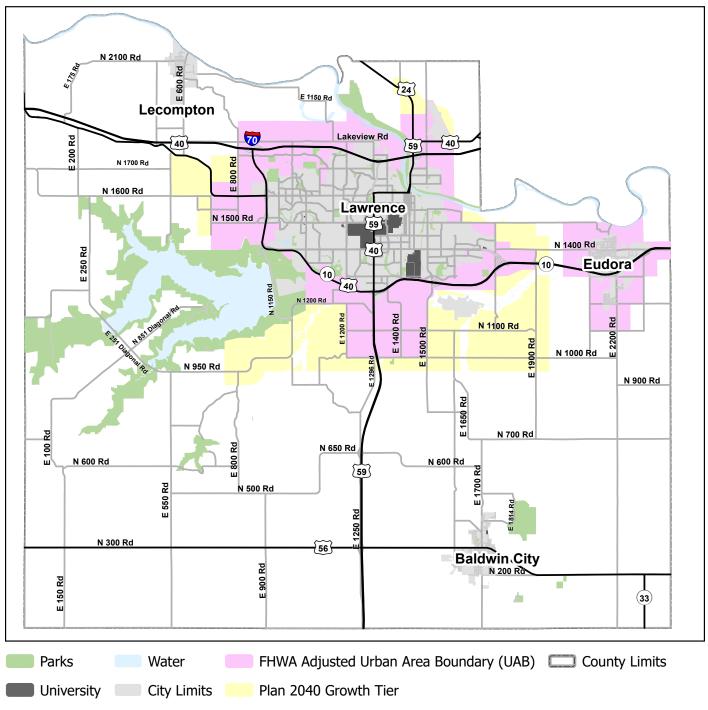
A Metropolitan Planning Organization (MPO) is a regional decision making body charged with developing a transportation plan and related policy and programming documents. The MPO is a group that is composed of representatives from many local governments that collectively discusses the transportation issues facing the metropolitan area and then makes decisions about how to address those issues. The Lawrence-Douglas County MPO is comprised of a Policy Board mainly composed of elected officials, a Technical Advisory Committee (TAC) made up of transportation and engineering professionals, the MPO Staff, and various other advisory groups that the MPO forms. Figure 1 displays the MPO structure. The MPO develops four core documents that create a regional vision for how the multimodal transportation system will function and grow – now and into the future. The MPO's core documents are the Metropolitan Transportation Plan (MTP), Transportation Improvement Program (TIP), the Unified Planning Work Program (UPWP), and the Public Participation Plan (PPP).

#### Figure 1: MPO Structure



The Lawrence-Douglas County Metropolitan Planning Organization (MPO) serves all of Douglas County, Kansas including Baldwin City, Eudora, Lawrence, and Lecompton (see Figure 2).





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## What is the TIP?

The Transportation Improvement Program (TIP) documents how the region prioritizes the limited transportation resources available among the various needs of the region.

The TIP is a short-range, multi-year listing of federally funded and/or regionally significant improvements to the region's multimodal transportation system. Projects in the TIP are designed to implement the Metropolitan Transportation Plan (MTP). The TIP must be fiscally constrained and include only projects for which funding has been identified using existing or reasonably available revenue sources. The TIP must be updated at least once every four years. The Lawrence-Douglas County TIP is updated every two years.

## The TIP and Transportation 2040

The TIP and Transportation 2040 (the region's Metropolitan Transportation Plan (MTP)) are linked.<sup>1</sup> Transportation 2040 (T2040) is the long range transportation vision; while the TIP is the short range implementation list. For projects to be included in the TIP, they must be consistent with T2040. This ensures projects are implementing the MPO's vision for a healthy, safe, and efficient transportation system, which adequately serves Lawrence, Eudora, Baldwin City, Lecompton, and unincorporated areas of Douglas County. Community input led to the development of the T2040 vision, goals, priorities, and objectives (Table 1). These goals are implemented by the TIP. The Tracking Performance Measures section provides further details on how the two documents are linked.

		Goals	Objectives
Access & Choices		Enhance Transportation options and choices for improved system	Improve regional connectivity (urban/rural) of all modes of the transportation networks including access to desired destinations.
		performance	Enhance transit service, amenities and facilities.
Mobility & Prosperity		Efficient movement of people, goods, and freight	Implement strategies that address system performance & improve reliability, capacity and competitiveness for regional freight.
Preservation,		Prioritize preservation, safety, and security of the	Support projects and policies that improve safety and security.
Safety, & Security	9	transportation network	Preserve and enhance transportation infrastructure and assets.
Sustain &	Q	Minimize adverse social, economic, and environmental impacts	Promote density to reduce transportation costs & reduce environmental impacts of transportation.
Enhance		created by transportation	Reduce single occupancy vehicle trips.

#### Table 1: Transportation 2040 Goals and Objectives

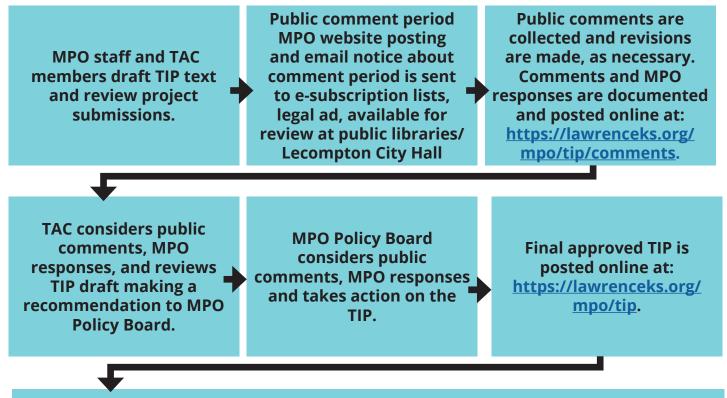
<sup>1</sup> https://lawrenceks.org/mpo/t2040

## **TIP Public Involvement Process**

The MPO's Public Participation Plan (PPP) requires a new TIP to undergo a 30-day comment period and amendments require a 15-day public comment period.<sup>1</sup> The full draft TIP is available on the MPO website (www.lawrenceks.org/mpo/tip) and a printed copy is available at Lawrence City Hall, Lawrence Public Library, Eudora Public Library, Baldwin City Public Library, and Lecompton City Hall. The public is notified of the opportunities to review the draft TIP through a local newspaper advertisement, notification by email, and by staff announcements that the draft TIP is available for comment at MPO meetings. These strategies are consistent with the PPP, which addresses how everyone will be engaged in the planning process.

Public comments are posted online at <u>www.lawrenceks.org/mpo/tip/comments</u> and are shared with TAC and the MPO Policy Board. MPO staff reviews the comments and responds to the comment submitter and posts the MPO response in conjunction with the comment online. If comments have direct, applicable action these changes are discussed with the project sponsor (if relevant) and are incorporated into the final draft document sent to the MPO Policy Board for approval. Appendix E contains the public involvement process utilized to develop this TIP. Figure 3 displays the process.

#### Figure 3: TIP Public Involvement Process



Once approved, the TIP is sent to KDOT for approval and inclusion in the Statewide Transportation Improvement Program (STIP), <u>https://www.ksdot.org/</u> <u>burProgProjMgmt/stip/stip.asp</u>, which has its own public comment period.

<sup>1</sup> Details about the public participation process for the approval and amendment of the TIP can be found at <a href="http://www.lawrenceks.org/mpo/public\_participation">www.lawrenceks.org/mpo/public\_participation</a>.

## <sup>2</sup> PROGRAMMING PROCESS ...HOW DO PROJECTS GET IN THE TIP?

## **Legislative Requirement**

The current federal surface transportation legislation is called the Infrastructure Investment and Jobs Act (IIJA), also known as the Bipartisan Infrastructure Law (BIL). It is a five year (FFY 2022-2026) transportation program signed into law by President Biden on November 15, 2021.<sup>1</sup> MPOs are required to develop a TIP that is fiscally constrained and contain all capital and non-capital surface transportation projects within the MPO area that will receive federal funding, as well as other regionally significant transportation projects.<sup>2</sup>

## Process for Including Projects in the TIP

The projects included in the TIP are drawn from the area's Metropolitan Transportation Plan (MTP), County and City governments' Capital Improvement Plans (CIP), as well as the State's Transportation Program known as IKE (formally called the Eisenhower Legacy Transportation Program). The MPO encourages Project Sponsors to use the factors in Appendix A to determine which projects should be prioritized for funding and inclusion in the TIP. Project Sponsors submit projects to the MPO staff for inclusion in the TIP and MPO staff work with TAC members to ensure that the projects are regionally

significant and are consistent with the MTP. Figure 4 displays the process for including projects in the TIP.

The transit and paratransit projects programmed in the TIP also go through a project selection process. Lawrence Transit staff works with the MPO, FTA, KDOT, and University of Kansas - KU On Wheels (KUOW) staffs to plan and program projects in the TIP that address transit needs and issues identified in the MTP. The KDOT- Office of Public Transportation in consultation with the Urban Corridor Coordinated Transit Council makes the selection of paratransit projects to include in the TIP.



This TIP document contains projects for Lawrence Transit that collectively constitutes the Program of Projects (POP) for Lawrence Transit. This list of transit items is a prioritized list of projects used by the Lawrence Transit staff and reviewed by FTA officials. Approval of the TIP includes the approval of the POP for Lawrence Transit. The public involvement procedures used for TIP development and amendments are used to satisfy the POP requirements for FTA Section 5307 funding.

<sup>1</sup> IJA was created as Public Law 117-58. The official legislation can be accessed at <u>https://www.congress.gov/117/plaws/publ58/PLAW-117publ58.pdf</u>

<sup>2</sup> In accordance with United States Code Titles 23 and 49, the TIP document must outline at least a four-year program of: 1) All federally funded priority transportation projects, and 2) All regionally significant priority projects, regardless of funding source.

## **Revisions to the TIP**

There are times when information about projects needs to be adjusted. Minor changes to project information are called revisions and are administrative actions with no public involvement required. Major changes are called amendments and require public involvement. Figure 5 displays the TIP amendment process.

## **Formal Amendments**

Amendments to the TIP often consist of major changes to total project cost. Those types of fiscal changes may have impacts on the ability of the TIP and/or the MTP to remain fiscally constrained. The following types of project changes are always handled as TIP amendments:

- Addition or deletion of a project within the first four (4) years of the TIP (federal regulations require this part of the TIP to show fiscal constraint)
- Total costs of a project and/or funding amounts for a project listed in the TIP increase by more than 20% of the total project cost (in the existing TIP);
- Change to a funding source (such as changing from state funding to federal)
- Change to a project scope and/or location (project limits)

## **Administrative Revisions**

Administrative revisions include all revisions that are not formal amendments. These revisions usually involve, but are not limited to:

- Obvious minor data entry errors or editing corrections to text, map, and/or other graphics
- Splitting or combining projects (project scopes and costs cannot change)
- Changes or clarifying elements of a project description (with no major changes in scope)
- Change in funding program or category (such as changing from STP to HSIP funding)
- Change of program year of project within the four-year fiscally constrained TIP
- Minor change of less than 20% of total project cost

In processing administrative revisions MPO staff will:

- Enter the requested revision into the project database.
- Prepare and publish an updated TIP and post it online.
- Notify the Kansas Department of Transportation of the modifications revisions.
- Prepare a summary of the revision to be presented at the next scheduled MPO Technical Advisory Committee and Policy Board meetings (no formal action required).

Administrative Revisions require no public comment.



Figure 5: Amendment Process

#### **Amendment Public Process**

TIP amendments must be posted for public review and comment, the MPO staff must collect and review any public comments and share those comments with the TAC and MPO Policy Board to address and/or incorporate them, as necessary, before TIP approval.<sup>1</sup>

A minimum 15-day public comment period is required for the proposed amendments, which are posted on the MPO web page. The MPO staff also places a paper copy of all TIP amendments in a binder kept at the front counter of the MPO Office for public review and comments. In addition, all TIP amendment announcements, including the printed advertisement in the newspaper, have the phone number, mailing address, and email address of the MPO staff listed on them so that anyone with questions or comments about the amendment can contact the staff to discuss it. Following the required 15-day public comment period, all comments will receive a response, either individually or in a summary form. The comments and responses will be posted at www.lawrenceks.org/mpo/tip/comments prior to distributing the TAC agenda packet (one week before the TAC meeting). The MPO staff presents these public comments and the staff response to the TAC and the MPO Policy Board before they discuss approving the amendment. There is no requirement for a public hearing.

#### **Amendment Schedule**

In order to facilitate the process of making TIP amendments, the MPO has a TIP amendment item on the TAC and Policy Board meeting agenda once each quarter (Table 2). These dates to consider TIP amendments will be coordinated with the KDOT calendar for making changes to the Statewide Transportation Improvement Program (STIP). A similar schedule will be followed for the other years covered by this TIP.

TIP Amendment Request Made to MPO Staff	Public Review Period	TAC Approval	MPO Approval	STIP Approval
September 11, 2022	9/16/2022 to 10/15/2022	October 4, 2022	October 28, 2022	November 3, 2022
March 3, 2023	3/9/2023 to 3/24/2023	April 4, 2023	April 20, 2023	May 4, 2023
May 5, 2023	5/11/2023 to 5/26/2023	June 6, 2023	June 15, 2023	July 6, 2023
June 30, 2023	7/6/2023 to 7/21/2023	August 1, 2023	August 17, 2023	September 7, 2023

#### Table 2: Quarterly Schedule for TIP Amendments

These dates are approximate and subject to change following discussions between MPO and KDOT staffs and/or discussions at the Technical Advisory Committee (TAC) meetings.

<sup>1</sup> An appropriate level of public involvement activities are outlined in the latest MPO approved Public Participation Plan found online at <a href="http://www.lawrenceks.org/mpo/public\_participation">www.lawrenceks.org/mpo/public\_participation</a>.

# FISCAL CONSTRAINT ...HOW ARE THE PROJECTS PAID FOR?

## **Project Funding**

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Projects are funded from several sources. Street and highway projects can be financed entirely by State and/or local funds or by any combination of federal, state, and local funds. The Infrastructure Investment and Jobs Act (IIJA) provides federal-aid to state and local units of government for surface transportation projects.

The use of Federal Transit Administration (FTA) funds are allocated to transit operators by formulas through the FTA Region 7 Office in Kansas City and through the KDOT Public Transportation Programs Office of Public Transit in Topeka. State transit funds from the Eisenhower Legacy Transportation (IKE) Program flows through KDOT. These funds are utilized for the operations of Lawrence Transit and various paratransit operations in the region.

KDOT administers Federal Highway Administration (FHWA) funding to local governments. The Surface Transportation Block Grant (STBG) Program and Highway Safety Improvement Program (HSIP) categories are the main federal categories or programs that cities receive through KDOT. The STBG Program combines the long-standing Surface Transportation Program and the Transportation Alternatives Program, now known as TA Set-Aside. Some of these funds provide annual allocations to cities while others require local governments to apply for project specific funding. The TA Set-Aside funds have helped build pathways, do historic preservation projects, and other projects outside the scope of traditional road and bridge improvements. They provide funding for former Transportation Alternatives (TA) program and the Safe Routes to Schools (SRTS) programs.

All of the estimated amounts of transportation project funds are included in Table 10: Estimated Revenues and Expenditures (located in the Demonstration of Fiscal Constraint section of this chapter). The estimates of reasonably expected funding levels based on financial information compiled for development of Transportation 2050 historic averages are compared to the levels of federal, state, and local funding for transportation facilities and services that are requested by KDOT and local governments for inclusion in the TIP. Comparing these expected funding levels and funding request levels allows the MPO to determine if the TIP is fiscally constrained.

## **Federal Funds**

The federal funding for road and bridge projects in the region is generally limited to formula funding levels set by the USDOT and KDOT. Those levels have been relatively steady over the last few years with Douglas County receiving about \$440,000 and the City of Lawrence receiving about \$1.2 million annually in federal aid for roads and bridges. The three smaller cities in Douglas County (Lecompton, Eudora, and Baldwin City) have small public works departments, thus large road or bridge projects are often managed by Douglas County or KDOT.

Discretionary funding for TA Set-Aside program projects is also available on a more sporadic competitive basis. This funding is not guaranteed in any given year, but our region has received some funding and expects to receive more in the foreseeable future. These funding levels have more uncertainty and therefore, projects must have awarded funding to be included in the TIP. If and when local governments in Douglas County are awarded funding from these discretionary programs the MPO

will amend the TIP to add that funding and those projects in a timely manner.

Competitive federal transit funds are available. Lawrence Transit was awarded Low or No-Emission (Low-No) Bus funding in 2020 (\$3.76 million), 2021 (\$1.82 million), and 2023 (\$3.3 million) to purchase electric buses.

## **State Funds**

State funds used in Douglas County for road and bridge projects are mostly limited to KDOT facilities and projects. The level of KDOT funding expended in the region varies greatly by year due largely to how much work KDOT does on the area's major highways. Recently KDOT spent large amounts of funding to build the South Lawrence Trafficway (new K-10 alignment), and to build a new interchange along K-10 at Bob Billings Parkway/N 1500 Road. All of those projects are KDOT administered projects on KDOT routes, which typically do not significantly impact the local governments' budgets for transportation improvements (although the City of Lawrence/Douglas County contributed \$1,000,000 for pedestrian and bicycle facility improvements to the K-10/Bob Billings Parkway interchange). Some other smaller amounts of State funding are used for local projects, such as the occasional purchase of a paratransit van with state money or a state contribution to a local bridge project.

For most local governments in the region the main KDOT funding role has been to provide federal aid to local projects, not to provide large amounts of state aid to local transportation improvements. However, the one example in the region where the state funding of a local project does make a routine and significant difference in the local budget process is state transit operating assistance. Lawrence Transit receives about \$1.3 million in state operating and capital assistance annually which is an important part of their budget.

Lawrence Transit was awarded Access Innovation and Collaboration (AIC) funding of \$677,000 for Bus Technology, Accessibility, and Branding Enhancements in 2022; \$1.6 million for construction of a Multimodal Transfer Facility in 2023, \$122,000 for construction of equitable and accessible bus stop amenities in 2023.

KDOT does not program projects in their budget documents or ask for projects to be added to the TIP unless a specific identified and reasonable funding source is identified. Therefore, KDOT requests for TIP actions represent a fiscally constrained condition for state funded and/or managed projects.

## Local Funds

#### **City of Lawrence**

Local funds are comprised of the general fund, gas tax, and the ten year sales tax to improve roads/ infrastructure and transit service, which was approved in November 2008, was reapproved by Lawrence voters in November 2017. This continuation of sale taxes included 0.3% dedicated to roads/ infrastructure and fire equipment and 0.2% dedicated to funding transit service. The fire equipment portion of the 0.3% tax cannot be separated for our analysis (Table 3).

Table 5. Lawrence Sales Tax for Im	provement	of Roads and Trai	ISIL SELVI	ce Projec			\$1,000S					
Source	Tax	Actual Collection		Projected Collection								
Source	Percentage	2021	2022	2023	2024	2025	2026					
Roads/Infrastructure & Fire Equipment	0.30%	\$6,354	\$6,989	\$7,338	\$7,485	\$7,635	\$7,785					
Transit	0.20%	\$4,236	\$4,660	\$4,893	\$4,990	\$5,090	\$5,192					
	Tota	\$10,590	\$11,649	\$12,231	\$12,475	\$12,725	\$12,977					

Sourece: City of Lawrence Finance Department. 2022-2026 are projected. The fire equipment portion of the .30% sales tax can't be removed from the roads/infrastructure.

These sales taxes will expire in April of 2029; new referendums will need to be approved to ensure this funding is available in the future. With the addition of those taxes the City has a local dedicated funding source for road and transit improvements that has made funding more predictable. The City is utilizing the sales tax revenue to design and program some large road projects that were not financially feasible prior to the tax. Some projects are now funded with this sales tax revenue and some are still funded with a combination of federal aid and local matching funds.

The City also receives obligation authority for STP funds from KDOT. Lawrence has elected to exchange their available obligation authority of federal funds for state funds at an exchange rate of \$0.90 in state funds for every \$1.00 in federal obligation authority, per KDOT policy. On average over the last four years, the City has received \$1.1 million in KDOT's federal funds exchange program.

#### City of Eudora, Baldwin City, and City of Lecompton

The City of Eudora became a second class city under Kansas statutes in 2010. With the designation, Eudora now receives an annual distribution of STP funding through KDOT. Similar to the City of Lawrence, the City of Eudora County receives obligation authority for STP funds from KDOT at an exchange rate of \$0.90 in state funds for every \$1.00 in federal obligation authority. This amount of federal funding is typically small (\$75,000 on average).

Baldwin City, Eudora and Lecompton have used federal funding sporadically and worked with Douglas County staff to administer major road and bridge projects using federal aid. This cooperation between the small cities and the County for the use of federal aid is expected to continue through the life of this TIP.

#### **Douglas County**

Just like Lawrence and Eudora, Douglas County receives obligation authority for STP funds from KDOT at an exchange rate of \$0.90 in state funds for every \$1.00 in federal obligation authority. On average over the last four years, the County received \$442,000 in KDOT's federal funds exchange program, and \$50,000 in federal sources such as U.S. Fish and Wildlife Service funding.

The County can also apply for TA Set-Aside funds if it chooses to do so. The County does not operate transit service and does not receive federal or state transit funding.

Douglas County has a CIP that is updated on a regular basis and other sources of local funds. Over the last five years, local funding averages \$9.3 million a year. Due to mental health initiatives and expansion of the jail, the Board of County Commissioners reduced the annual CIP allocations for roads and bridges by \$1 million for 2019. This annual reduction is anticipated to continue through 2023. The County programs its projects in their CIP and as needed the County staff coordinates its capital planning with the MPO staff for TIP development and changes.

#### **Transit and Paratransit Funds**

The public transit operations in Lawrence are composed of a mix of services operated by the Lawrence Transit and the University of Kansas service called KU on Wheels (KUOW). KUOW transit operations are primarily supported by student fees. The City transit service uses state operating assistance, state capital assistance, federal capital assistance, and federal operating assistance to keep buses running. Lawrence also uses local sales taxes to pay for transit. Lawrence Transit is projecting to receive \$3.8 - \$4.0 million annually over the next five years in flexible federal formula Section 5307 subsidies to provide transit services. This annually allocated funding can be used for capital projects (e.g., buying new buses), but most of it has been used for operations. Due to the COVID-19 pandemic the U.S. Congress authorized the Coronavirus Aid, Relief, and Economic Security (CARES) Act, which is providing \$3.9 million in operating funds over four years and \$3 million in capital funds currently programmed in 2025. Lawrence Transit was awarded Low or No-Emission (Low-No) Bus funding in 2020 (\$3.76 million), 2021 (\$1.82 million), and 2023 (\$3.3 million) to purchase electric buses. Lawrence Transit was awarded Access Innovation and Collaboration (AIC) funding of \$677,000 for Bus Technology, Accessibility, and Branding Enhancements in 2022; \$1.6 million for construction of a Multimodal Transfer Facility in 2023, \$122,000 for construction of equitable and accessible bus stop amenities in 2023.

Capital assistance levels are typically much more unpredictable than operating assistance, but when the transit capital funding will be needed is fairly predictable because it is based on the life span of buses. That creates a dilemma for transit operators who in the past relied heavily on large discretionary grants from the FTA for bus fleet replacements. Now those large grants are gone and our transit operators are adjusting to buying only a few new buses at a time when funding is available instead of buying many buses on one large grant funded order.

Lawrence Transit uses a relatively constant mix of federal and local funds for operations. Under the State Eisenhower Legacy Transportation (IKE) Program some state operating assistance is received each year.

The paratransit providers in the region provide all or most of their own funds to operate their services, and in some cases they use FTA or state grants for vehicle purchases. As part of these vehicle purchases the agency requesting the federal funds is required to provide a local match, and those vehicles are programmed in the TIP.

## **Operation and Maintenance (O&M) Funding**

The fiscal constraint analysis looks primarily at capital projects (e.g., building roads and bridges, buying buses, etc.); however, that is not a complete picture of funding for the region's multimodal transportation system. The funds needed for operating and maintaining transport facilities and services also has to be reviewed. An adequate level of Operations & Maintenance (O&M) funding needs to be budgeted to maintain the federal-aid highways and local roads in the region. Short-changing the O&M budgets to make the road improvement projects fiscally feasible is not appropriate. This funding is divided into Roads/Bridges and Transit.

#### Road and Bridge Operations and Maintenance Funding Estimates

The expenses for O&M work items are usually paid for by the local government that owns and operates the road and the utility providers that use the road rights-of-ways.

In the case of major highways, KDOT is the owner of the road and maintains those facilities. The major exception to this is the Kansas O&M consists of routine things such as pothole patching, minor repairs to pavements and curbs, snow removal, striping and marking, utility work and patching, electrical repairs, tree trimming, mowing, signal repairs, sign replacement, bridge maintenance, and other minor work tasks.

Turnpike/I-70 which is owned and operated by the Kansas Turnpike Authority. Some of the state highway mileage in Lawrence is provided on City streets through a city connecting link agreement between KDOT and the City. That agreement includes quarterly payments from KDOT to the City to pay a share of the maintenance costs for those route segments carrying a state highway. KDOT plays a role in the maintenance of some major roads in the region, but major highway mileage comprises a small percentage of total roadway mileage. Most of the road mileage in Douglas County is owned by the County, City or Township Governments that levy local property taxes and sometimes other taxes to pay for road maintenance and operations.

The cities and county also receive a portion of the state gas tax collected in Douglas County. This amount of funding is anticipated to continue during the years covered by this TIP. The state supplied pass through gas tax funding is supplemented by local government funds to make up the bulk of Lawrence and Douglas County roadway O&M budgets.

The City of Lawrence has a 2023 0&M budget for its road system of \$14.2 million paid with by state gas tax funds, local infrastructure sales tax, general fund, and federal sources. Douglas County had a 2023 0&M budget of \$3.9 million paid with a mixture of state gas tax, Capital Improvement Program allocation, Federal Funds Exchange with the State, and local and federal sources. The City of Eudora has a 2023 0&M budget of \$1.0 million which is funded by Federal Funds Exchange with the State, motor fuel Tax, general fund, and other fees and funds. The cities of Baldwin City and Lecompton did not provide 2023 0&M figures but their 2021 budgets were \$460,000 and \$7,000, respectively. It is expected that the local governments in the region will continue to fund their 0&M budgets in order to adequately maintain their transportation infrastructure during this TIP period. Table 4 shows the KDOT, Douglas County, the City of Lawrence, Eudora, Baldwin City, and Lecompton 0&M expected cost per lane mile.

#### Baldwin KDOT County\* Lawrence Eudora Lecompton Total City\*\*\* Anticipated funding per lane mile 14.19 \$ \$ 2.89 \$ 8.38 \$ 16.29 \$ \_ \$ 2.36 Lane Miles\*\* 891 73 61 204 464 13 1,707 2023 \$ 590 \$ 3,888 \$ 14,197 \$ 1,042 \$ \_ \$ 32 \$ 19,748 17,892 4,024 \$ 12,146 \$ 1,079 \$ 33 \$ 2024 \$ 611 \$ \$ 12,348 \$ 18,296 2025 \$ 4,165 1,116 \$ \$ \$ 632 \$ \$ -34 4,311 14,017 \$ 35 20,173 2026 \$ 654 \$ \$ 1,156 \$ \$ \$ \$ 52,708 \$ \$ \$ \$ 76,109 Total \$ 2,487 \$ 16,388 4,393 133 -

#### Table 4: Road and Bridge O&M (Shown in \$1,000s)

\*Does not include Township roads or road maintenance funds, but County maintenance costs does include bridges and large culverts on township roads that are maintained by the County.

\*\*Lawrence and KDOT lane miles calculated in 2022. County, Eudora, Baldwin City, and Lecompton lane miles from 2020 TIP

\*\*\*No data provided

#### **Transit Operations and Maintenance Funding Estimates**

Transit operations are funded with a mix of local, state, and federal funds. The transit system in Douglas County is a coordination of services owned and operated by the City of Lawrence, the University of Kansas, social service agencies that run paratransit vehicles, and Johnson County Transit that operates a commuter bus service called the K-10 Connector, which traverses between Lawrence and locations in Johnson County. K-10 Connector funding is programmed in the TIP produced by the Mid-America Regional Council (MARC), which is the MPO for the Kansas City area.

> Transit O&M is the cost of operating transit service and maintaining the transit fleet. For example, this includes fuel, driver salaries, and purchasing transit vehicles.

#### **Lawrence Transit**

Lawrence Transit service uses federal, state, and local funds for operating and routine maintenance expenses for their fixed-route and complementary paratransit services. Lawrence Transit needs to pay for its services when they are rendered (i.e., when the buses are rolling, burning fuel and labor costs are incurred) by maintaining a cash flow to pay for its vendors and staff as they work. Unlike a road or a bridge that can be bonded for twenty years and paid for over time, transit operations are typically not paid for with debt service. For 2023, Lawrence Transit has an O&M budget of approximately \$17.7 million which is funded with a mixture of federal aid, state aid, and local funds. Due to the COVID-19 pandemic the U.S. Congress authorized the Coronavirus Aid, Relief, and Economic Security (CARES) Act, which is providing \$3.9 million in operating funds over four years. Table 5 displays the Lawrence Transit O&M. The levels of O&M expenses and revenues shown in Table 5 are anticipated to continue through the four-year fiscally constrained period (2023-2026) since the CARES act funding is being spread out over 2020-2025).

Operations and maintenance funding for Lawrence Transit is shown in Table 9: Estimated Revenues and Expenditures (located in the Demonstration of Fiscal Constraint section of this chapter).

The O&M costs are deducted from the estimated revenues; therefore, funding for O&M projects are not available for other projects and the TIP is fiscally constrained.

#### Table 5: Lawrence Transit O&M (Shown in \$1,000s)

FFY	2023	2024	2025	2026	Total
Total O&M	\$ 10,534	\$ 10,692	\$ 10,853	\$ 11,016	\$ 43,095

\*Based on information provided by Lawrence Transit

#### University of Kansas (KU on Wheels) Transit Funding

The University of Kansas also provides transit services that are available to the general population as well as KU students and staff. Funding for the KU on Wheels system includes a considerable amount of funding that supports fixed route transit in Lawrence. The KU transit funding information listed in Table 6 gives a more complete and realistic account of the size and costs of the transit system in Lawrence.

The KU on Wheels (KUOW) and the Lawrence Transit services are integrated into one route and schedule system and both of these operations accept each other's bus passes. Even though these two services are coordinated into one route map and schedule book, only Lawrence Transit receives FTA funding. The KUOW part of the public transit system in Lawrence is fiscally constrained by the revenues provided by fees that support it.

#### Table 6: KU on Wheels (KUOW) O&M (Shown in \$1,000s )

	2023		2024	2025	2026	Total
Total O&M	\$ 2,52	5 \$	2,526	\$ 2,526	\$ 2,526	\$ 10,103

\*Based on information provided by KU on Wheels

#### Paratransit

The paratransit providers in the region mostly provide their own funds to operate their services, but in some cases receive a small amount of state operating subsidy from KDOT. Typically, this state operating assistance is only a few thousand dollars per year for each operator. Most of the federal and state aid to paratransit is for vehicle purchases. During the COVID 19 pandemic, additional funds were provided to agencies in 2020-2022. No pandemic related funding is budgeted for 2023 or beyond.

The MPO staff works closely with the KDOT transit staff, the Regional Transit Advisory Committee (RTAC), and the Urban Corridor Coordinated Transit Council members to keep informed about the status of paratransit operations and funding issues. Those paratransit issues are discussed in more detail in the Coordinated Public Transit-Human Services Transportation Plan (CPT-HSTP).<sup>1</sup>

The combined O&M budget in the region, including Lawrence Transit, KU on Wheels, and the various paratransit providers, is \$30.3 million in 2023 (Table 7).

#### Table 7: Regional Transit O&M (Shown in \$1,000s)

FFY	2	023	2024	2025	2026	Т	otal
Total O&M	\$	30.25	\$ 28.47	\$ 28.95	\$ 30.89	\$	119

\*Based on information provided by transit providers

#### Year of Expenditure (YOE) Inflation Factor

In addition to having a clearly identified source of funding for each roadway, bridge, transit, and enhancement project listed in the TIP, the project sponsor must also present their project costs in year of expenditure (YOE) dollars. This allows the project estimates to take into account inflation and should make them more realistic than using constant dollars. This fiscal analysis uses an annual inflation factor of 1.5% (which matches the Inflation Factor planned for T2050) for all TIP projects to determine the estimated costs in the year of expenditure. This inflation factor has been used since 2012 when it was developed by KDOT for use with federal aid projects. TAC and MPO Policy Board members agreed to the YOE inflation rate.

#### **Demonstration of Fiscal Constraint**

TIPs are required to have a four year fiscally constrained program of projects. Fiscally constrained means enough financial resources are available to fund projects listed in the TIP. Fiscal constraint also makes good sense.

The MPO accounts for O&M expenditures "Off the Top" from available funding before projects are programmed (Table 8). This ensures there is enough funding to operate, maintain, and preserve the existing transportation system (including roads, bridges, and transit services), which is a high priority of T2040.

Access this plan at <u>https://www.lawrenceks.org/mpo/transit.</u>

#### Table 8: Funding Available for Projects after Accounting for all O&M Expenditures (in \$1,000s)

Subtracting O&M "Off the Top" (in thousands)												
FFY 2023 FFY 2024 FFY 2025 FFY 2026 To												
Anticipated Funding	\$	99,406	\$	197,882	\$	74,672	\$	47,073	\$	419,033		
Anticipated O&M Expenditures	\$	32,830	\$	30,438	\$	31,667	\$	33,373	\$	128,307		
Funding Available for Projects	\$	66,576	\$	167,444	\$	43,006	\$	13,700	\$	290,726		

This TIP document provides realistic cost and funding estimates for improvement projects in the first two years of the fiscal constraint period (2023 and 2024). Predicting the revenues which will be available and costs for projects in the second half of that period (2025 and 2026) are a more speculative exercise.

Financial data was collected as part of development of Transportation 2050. The Funding Summary in Table 9 shows the level of projected funding from reasonable sources and the total level of project funding programmed in this TIP are balanced and this TIP is fiscally constrained. The fiscal breakdown by funding source for all roadway and transit projects listed in the 2023-2026 TIP are shown in the table. The projects are shown by year and funding source.

#### Table 9: Funding Summary (in \$1,000s )

	Anticipated Funding (in thousands)												
-	Funding Source	F	FY 2023	F	FY 2024	FFY 2025		FFY 2026			Total		
÷	Federal	\$	7,617	\$	10,603	\$	4,105	\$	7,805	\$	30,130		
Transit	State	\$	6,620	\$	1,721	\$	3,222	\$	1,722	\$	13,284		
Tra	Local	\$	23,979	\$	10,691	\$	11,891	\$	11,234	\$	57,794		
it .	Federal	\$	5,079	\$	1,788	\$	2,795	\$	1,803	\$	11,465		
Non- Transit	State	\$	37,847	\$	35,559	\$	212,442	\$	38,733	\$	324,580		
ĒĒ	Local	\$	36,235	\$	37,865	\$	34,043	\$	25,937	\$	134,080		
	Transit Total			\$	23,014	\$	19,218	\$	20,761	\$	101,208		
N	Non-Transit Total			\$	75,212	\$	249,280	\$	66,473	\$	470,126		
	Grand Total	\$	117,376	\$	98,225	\$	268,498	\$	87,235	\$	571,334		

Anticipated funding is based on the revenue assumptions being prepared for Transportation 2050 and information provided by jurisdictions. Local transit funds include KU on Wheels funding. 1.5% growth is applied to the funding and the 2017 Lawrence sales tax referendum (funds roads/infrastructure and transit service) is assumed to be renewed thru 2050 for these projections. Advanced Construction Conversion converts state funding to federal funding.

Estimated Expenditures by Year and Funding Source (in thousands) Funding Source FFY 2026 Total												
F	Funding Source				F	FY 2024		FFY 2025	FFY 2026			Total
	_	FTA 5307	\$	7,176	\$	4,606	\$	5,067	\$	5,574	\$	22,423
	Federal Funds	FTA 5310	\$	-	\$	-	\$	-	\$	-	\$	-
nsit	Fu	FTA 5311	\$	-	\$	-	\$	-	\$	-	\$	-
Transit	-	FTA 5339	\$	1,624	\$	-	\$	-	\$	-	\$	1,624
•	State-PT			1,155	\$	1,155	\$	1,155	\$	1,155	\$	4,620
	Local		\$	10,526	\$	4,590	\$	5,261	\$	5,340	\$	25,717
		CDBG	\$	300	\$	300	\$	-	\$	-	\$	600
	Federal Funds	HRRR	\$	-	\$	-	\$	-	\$	-	\$	-
ų		HSIP	\$	1,500	\$	500	\$	-	\$	-	\$	2,000
isi		NHPP	\$	-	\$	-	\$	13,739	\$	-	\$	13,739
Tra		STP	\$	-	\$	-	\$	-	\$	-	\$	-
Non-Transit	_	ТА	\$	1,500	\$	2,558	\$	-	\$	-	\$	4,058
2	St	ate	\$	8,604	\$	40,705	\$	(13,739)	\$	3,000	\$	38,570
	State AC C	onversion*			\$	(500)	\$	(13,739)	\$	-	\$	(14,239)
	Local		\$	14,580	\$	15,306	\$	5,400	\$	6,000	\$	41,286
		Transit Total	\$	20,481	\$	10,351	\$	11,483	\$	12,069	\$	54,384
	Nor	-Transit Total	\$	26,484	\$	58,869	\$	(8,339)	\$	9,000	\$	86,014
		Grand Total	\$	46,965	\$	69,220	\$	3,144	\$	21,069	\$	140,398

\*State AC Conversions are negative because the State is receiving federal reimbursement for funds spent in previous years (as noted in the project listing).

\*\* While CDBG funding is not required to be in this TIP, it is part of #507 which includes various bike/sidewalk/ADA ramps projects in Lawrence.

# PERFORMANCE MEASURES ...HOW ARE WE DOING?

The Moving Ahead for Progress in the 21st Century Act (MAP-21) and Fixing America's Surface Transportation (FAST) Act requires Performance-Based Planning and Programming (PBPP) in the development of the MTP and TIP. Transportation 2040 (T2040) is the region's MTP. The TIP acts as the implementation arm of T2040. T2040 has 26 performance measures: 12 federally mandated and 14 community established. The T2040 performance measures promote the overarching goals shown below. Table 10 illustrates which T2040 goals the TIP's projects are implementing.

#### Table 10: Projects addressing Transportation 2040 Goals

#	Project		Efficient movement of people, goods, & freight	Prioritize preservation, safety & security of the transportation system	Minimize adverse social, economic & environmental impacts created by transportation
106	Wakarusa Drive Extension	×	x	Х	
117	Naismith Drive Reconstruction: 19th St. to 23rd St.	x	x	x	
142	US-40/K-10 Interchange Improvement (Diverging Diamond Interchange)	x	x	x	
143	US-56 Reconstruction: US-56/US-59 Junction east to 1600 Rd.			х	
144	South Iowa St. Traffic Signal Improvement Project	x	X		
146	11th St Indiana to Ohio; Louisiana - 11th to 12th Reconstruction	x		х	
147	K-33: Wellsville to U.S. 56 (N. 200th Road) junction	x	x	х	
148	Bob Billings - Kasold to Wakarusa Dr.	x	x		
149	Wakarusa Dr. Reconstruction - Harvard Rd to 6th Street	x	x		
214	Wakarusa Dr. Reconstruction: Research Pkwy to 23rd St	x	x	х	
219	Rte 458/1055 Improvements: E 1500 thru E 1600			х	
230	Queens Road: 6th to North City Limits	x	x	х	x
234	23rd Street Reconstruction: Haskell to East City Limits	x	x	X	x
236	SLT/K-10 West Leg in Douglas County	x	x	X	x
237	SLT/K-10 West Leg in Douglas County	x	x	x	x
243	US-56 Improvements: Eisenhower St to 1st St		x	X	
248	Bridge 0964-1000 replacement			X	
249	Repair bridge #071 on K-10 in Douglas County			X	
300	6th and Massachusetts St Traffic Signal Improvement Project		x		
401	Independence Inc., FTA 5311 Operating & Capital	x		X	x
403	Lawrence Transit Capital Assistance	x	x	X	x
410	Lawrence Transit Central Station	x	x	X	x
412	Lawrence Transit Operating Funds	x	x	x	x
416	Lawrence Transit Electric Buses Phase 1	x		~	x
417	CARES Act Operating Funds	x	x	x	x
419	American Rescue Plan (ARP) Operating Assistance	x	x	X	x
420	Lawrence Transit Electric Buses Phase II	x			x
421	Zero-Emissions Transition Plan	~			x
422	Equitable and Accessible Bus Stop Amenities	x	x	x	x
423	AIC - Multimodal Transfer Facility Elements	x	x	X	x
424	AIC - Bus Technology, Accessibility, and Branding Enhancements	×	^	^	^
425	Electric Buses Phase III	x	x		x
426	Microtransit Pilot	x	x		^
507	Various Lawrence Bike/Sidewalk/ADA Ramps Projects	×	x	x	x
509	West Baldwin Pedestrian/Bike Connectivity Project	x	x	^	x
513	Lawrence Safe Routes to School Phase 2 (2021)	x	x	x	x
513	Naismith Drive Mobility Enhancement	x	x	^	x
514	Lecompton Sidewalk Loop Project: Historic Loop & Grand Loop Connectivity	X	x	X	x
515	Lawrence Loop Shared Use Path: Michigan St. to Sandra Shaw Park	x	x	x	x
510	Baldwin City Sidewalk Gap Project				
517	Eudora 10th St. Sidewalk Expansion	x	x	x	x
518	Lawrence Loop - Iowa Crossing	x	X	x	*
520				X	
521	Lawrence Loop Trail - Kaw River -7th street to Constant Park	X			
_	Lawrence Loop Trail from Queens Rd to Kasold	X			
600	Various Railroad Safety Projects in the Region		X	X	
605	DGCO: High Friction Surface Treatment			X	
607	Massachusetts Street - 14th to 23rd Street Multi-Modal Improvements	X	x	X	X
608	Signal Improvement at US24/US40/US59 near Lawrence			Х	

4

PBPP is accomplished by tracking performance measures, setting data-driven targets for each measure, and selecting projects to help meet the targets. The federal performance measures include:

- Safety
- Pavement & Bridge
- System Performance
- Transit

Each federal measure has target setting requirements, which provides the MPO guidance for how our region is doing to achieve the measures. The MPO developed a rolling schedule to update performance measure data based on data availability and when targets are to be reported to KDOT. The most up-to-date data and targets can be found at <a href="https://lawrenceks.org/mpo/t2040/pm">https://lawrenceks.org/mpo/t2040/pm</a>. Through the TIP development process, project sponsors were asked a series of questions to determine if the project would assist the MPO in reaching the region's desired targets. For this discussion it is important to note, there are thirty (30) projects included in the fiscally constrained TIP.

## **Safety Targets**

Safety targets are based on a five-year rolling average and annual targets are set. Table 11 displays the current safety targets for 2022. Safety data is obtained from KDOT each August and targets are determined for the next target year in October. Safety performance measures reflect data for all public roads including the number of fatalities, rate of fatalities per 100 million Vehicle Miles Traveled (VMT), number of serious injuries, rate of serious injuries per 100 million VMT, and number of non-motorized fatalities and serious injuries.

#### Table 11: L-DC MPO T2040 Safety Targets - 2022

Safe	ty	2022
9)	Number of fatalities	14.9
10)	Rate of fatalities per 100 million VMT	1.1
11)	Number of serious injuries	24.1
12)	Rate of fatalities per 100 million VMT	2.4
13)	Number of non-motorized fatalities & serious injuries	3.3

#### **TIP Projects Working Towards Safety Goals**

All but one of the non-transit projects have some component to address safety concerns. They are categorized as intersection projects, railroad projects, standalone bicycle/pedestrian projects, roadway projects including bicycle and pedestrian elements, and roadway projects. Table 12 displays the projects per category and describes the safety impact of the improvement. Further, common improvements which improve safety and corresponding projects are listed below.

#### **Common Improvements That Impact Safety**

Separated or dedicated facilities for pedestrians and bicyclists

According to a report from the Office of the New York City Mayor, when protected bike lanes are installed, injury crashes for all road users (motorists, pedestrians, and bicyclists) typically drop by 40% and by more than 50% in some locations.<sup>1</sup> (Example: Project #512: Lawrence Loop Shared Use Path)

Dedicated vehicle turning movements lanes

By creating two way left turn lanes, vehicles are separated from through traffic improving traffic flow and reduce the potential risk of rear end crashes. (Example: Project #214: Wakarusa Dr. Reconstruction, Research Pkway to 23rd St)

#### Access management

Howard Wolfson Memo on March 21, 2011 regarding Bike Lanes - http://www.nyc.gov/html/om/pdf/bike\_lanes\_memo.pdf

Access management improves safety by separating access points so turning and cross movements occur at fewer locations. (Example: Project #234: 23rd Street Reconstruction: Haskell Ave to East City Limits)

#### Roundabouts

According to AASHTO Highway Safety Manual, installing roundabouts reduce the types of crashes where people are seriously hurt or killed by 78-82% when compared to conventional stop-controlled and signalized intersections.<sup>1</sup> (Example: Project #230: Queens Road: 6th St to North City Limits)

#### Meeting design standards

The safety of the roadway can be improved by flattening roadside slopes and making geometric improvements to bring roadways up to design standards. (Example: Project #219: Route 458 Improvements, E 1500 to E 1600 & Route 1055, N940 to N1000)

Table 12:	Projects	addressing	<b>L-DC MPO</b>	Safety	Targets
-----------	----------	------------	-----------------	--------	---------

	Roadway Projects that Improve Safety					
#	Project	Safety Improvement				
		Remove arterial traffic from recreational areas, reduce fire and				
106	Wakarusa Drive Extension	medical response time, and decrease vehicle use				
117	Naismith Drive Reconstruction: 19th St. to 23rd St.	Add bike facilities				
	US-40/K-10 Interchange Improvement (Diverging					
142	Diamond Interchange)	Geometric improvements				
	US-56 Reconstruction: US-56/US-59 Junction east to					
143	1600 Rd.	Widen shoulders and acceleration/deceleration lanes				
	11th St Indiana to Ohio; Louisiana - 11th to 12th					
146	Reconstruction	Reconstruction of pavement, sidewalks and bike improvements				
147	K-33: Wellsville to U.S. 56 (N. 200th Road) junction	Widen shoulders will allow for increased safety for bicyclists				
148	Bob Billings - Kasold to Wakarusa Dr.	Separated ped/bike facility				
	Wakarusa Dr. Reconstruction - Harvard Rd to 6th					
149	Street	Separated ped/bike facility				
	Wakarusa Dr. Reconstruction: Research Pkwy to 23rd					
214	St	Sidewalks, bike facilities, two way left turn lanes				
219	Rte 458/1055 Improvements: E 1500 thru E 1600	Provide paved shoulders and flatten roadside slopes				
		Geometric improvements to meet collector street standards,				
230	Queens Road: 6th to North City Limits	sidewalks, and bike facilites				
234	23rd Street Reconstruction: Haskell to East City Limits	New sidewalks, bike facilites, turn lanes, and access management				
		Additional through lanes, a new grade separated interchange and				
		reconstructed interchanges, and a reduction of traffic conflicts and				
236	SLT/K-10 West Leg in Douglas County	decision making points				
		Additional through lanes, a new grade separated interchange and				
		reconstructed interchanges, and a reduction of traffic conflicts and				
237	SLT/K-10 West Leg in Douglas County	decision making points				
243	US-56 Improvements: Eisenhower St to 1st St	Geometric Improvements				
		Applying high-friction road surface treatment helps maintain				
605	DGCO: High Friction Surface Treatment	pavement friction reducing crashes.				

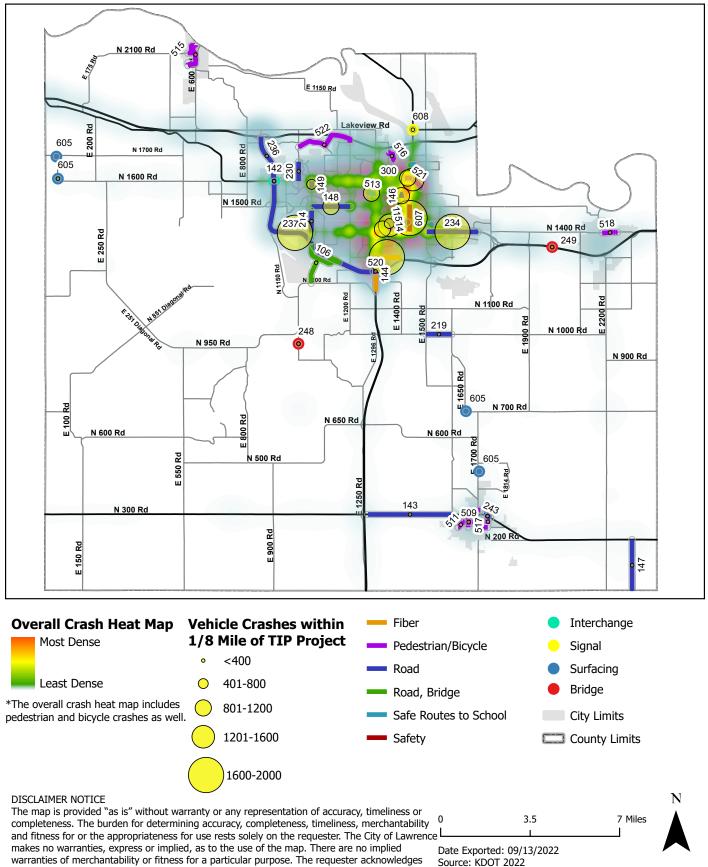
FHWA's Office of Safety - https://safety.fhwa.dot.gov/intersection/innovative/roundabouts

#### Table 12: Projects addressing L-DC MPO Safety Targets (Continued)

	Bridge Projects that Improve Safety					
#	Project	Safety Improvement				
248	Bridge 0964-1000 replacement	Replace with wider bridge				
249	Repair bridge #071 on K-10 in Douglas County	Bridge repair				
	ITS Projects	that Improve Safety				
#	Project	Safety Improvement				
300	6th and Massachusetts St Traffic Signal Improvement	Pedestrian activitation buttons and vehicle detection				
144	South Iowa St. Traffic Signal Improvement Project	Improve traffic flow				
608	Signal Improvement at US24/US40/US59 near Lawrence	Improve visibility				
	-	Projects that Improve Safety				
#	Project	Safety Improvement				
	Various Lawrence Bike/Sidewalk/ADA Ramps Projects	Provide dedicated space for pedestrians and bicyclists				
	West Baldwin Pedestrian/Bike Connectivity Project	ADA compliant sidewalks and separated ped/bike facility				
	Lawrence Safe Routes to School Phase 2 (2021)	Sidewalk				
514	Naismith Drive Mobility Enhancement	Separated ped/bike facility				
	Lecompton Sidewalk Loop Project: Historic Loop &					
515	Grand Loop Connectivity	Sidewalk				
	Lawrence Loop Shared Use Path: Michigan St. to					
	Sandra Shaw Park	Separated ped/bike facility				
517		Sidewalk				
	Eudora 10th St. Sidewalk Expansion	Sidewalk				
520	Lawrence Loop - Iowa Crossing	Grade separated SUP crossing				
	Lawrence Loop Trail - Kaw River -7th street to					
	Constant Park	Separated ped/bike facility				
522	Lawrence Loop Trail from Queens Rd to Kasold	Separated ped/bike facility				
	Massachusetts Street - 14th to 23rd Street Multi-	- Initial Contra				
607	Modal Improvements	Ped/bike facility				
	-	cts that Improve Safety				
#	Project	Safety Improvement				
		This grouped project is for railroad safety projects that improve				
600	Variaus Dailyaad Cafety Draiasta in the Daaiast	safety hazards at public railroad crossings. It targets known railroad				
600	Various Railroad Safety Projects in the Region	safety issues throughout the region.				

The MPO examined January 2012 to August 2022 crash data provided by KDOT to determine high crash locations. As shown in Figure 6, there were 18,613 crashes in this time frame within 1/8 mile of the TIP project locations, compared to a total of 28,576 total crashes in Douglas County.





## **Pavement & Bridge Targets**

Pavement data categorizes pavement as Good and Poor. Good condition suggests no major investment is needed, while poor condition suggests major reconstruction investment is needed. Pavement condition is evaluated by measuring International Roughness Index (IRI), Present Serviceability Index (PSR), Cracking Percent, Rutting, and Faulting (uneven slabs of concrete). Bridge data is based on deck area. Condition is determined by the lowest rating of deck, superstructure, substructure, or culvert. National Highway System (NHS) bridge condition and Interstate and Non-Interstate NHS pavement condition data is provided by KDOT. The bridge targets are shown in Table 13, while the pavement targets are in Table 14.

#### Table 13: L-DC MPO T2040 NHS Bridges by Deck Area Targets - 2022

Bridge	2022
14) Percentage of NHS bridges by deck area classified as in GOOD condition	95.8%
14) Percentage of NHS bridges by deck area classified as in POOR condition	0.0%

#### Table 14: L-DC MPO T2040 Interstate and Non-Interstate NHS Pavement Condition Targets - 2022

Pavement	2022
18) Percentage of pavements of the Interstate System in GOOD condition	96%
18) Percentage of pavements of the Interstate System in POOR condition	0%
19) Percentage of pavements of the Non-Interstate NHS in GOOD condition	58%
19) Percentage of pavements of the Non-Interstate NHS in POOR condition	3%

#### **TIP Projects Working Towards Pavement & Bridge Goals**

There are two bridge projects in the TIP. One is a NHS bridge - #249 the K-10 bridge over the Wakarusa River. Improving the overall quality of bridges in Douglas County will assist in achieving the local performance measures of improving non-NHS bridges. Table 15 displays the projects which improve pavement conditions.

#### **Table 15: Projects Improving Pavement Conditions**

#	Project	Year	Length	Cost
106	Wakarusa Drive Extension	2019-2025	2	\$ 12,750
117	Naismith Drive Reconstruction: 19th St. to 23rd St.	2023-2024	0.5	\$ 4,300
142	US-40/K-10 Interchange Improvement (Diverging Diamond Interchange)*	2021-2025	0	\$ 16,556
214	Wakarusa Dr. Reconstruction: Research Pkwy to 23rd St	2022-2023	1.47	\$ 7,300
219	Rte 458/1055 Improvements: E 1500 thru E 1600	2020-2021	1.6	\$ 3,609
230	Queens Road: 6th to North City Limits	2015-2022	0.75	\$ 3,800
234	23rd Street Reconstruction: Haskell to East City Limits	2020-2022	2.01	\$ 10,850
143	US-56 Reconstruction: US-56/US-59 Junction east to 1600 Rd.*	2021-2025	3.75	\$ 1,200
148	Bob Billings - Kasold to Wakarusa Dr.	2025-2026	1.5	\$ 13,100
146	11th St Indiana to Ohio; Louisiana - 11th to 12th Reconstruction	2022-2023	0.25	\$ 1,750
607	Massachusetts Street - 14th to 23rd Street Multi-Modal Improvements	2023-2024	1.1	\$ 1,600
147	K-33: Wellsville to U.S. 56 (N. 200th Road) junction	2022	2.01	\$ 2,000
149	Wakarusa Dr. Reconstruction - Harvard Rd to 6th Street	2024-2025	0.25	\$ 1,250
	* Project on NHS			

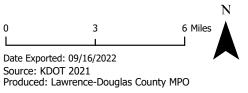
Figure 7 displays TIP projects and NHS pavement condition. It assists in determining if projects will assist in improving "poor" pavement and achieving our pavement condition targets. The other projects which are not on the NHS will help achieve the local performance measures of improving non-NHS major roads (collector and above) pavement condition.





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## **System Performance Targets**

Reliability performance measures relate to person-miles traveled on the Interstate and Non-Interstate NHS, as well as truck travel time reliability on the Interstate. This equates to consistency or dependability of travel times. This data all comes from National Performance Management Research Data Set (NPMRDS) RITIS. The Interstate (I70) is maintained by the Kansas Turnpike Authority (KTA). Table 16 displays the system performance reliability targets.

#### Table 16: L-DC MPO T2040 Reliability Targets - 2022

System Peformance	2022
6) Percent of the Person-Miles Traveled on the Interstate That Are Reliable (LOTTR)	99%
6) Percent of the Person-Miles Traveled on the Non-Interstate NHS That Are Reliable (LOTTR)	99%
8) Truck Travel Time Reliability (TTTR) Index on the Interstate system	1.07

## **TIP Projects Working Towards System Performance Goals**

There are no TIP projects that are part of the interstate system. Thus there are no specific projects working to achieve the person-miles traveled and truck travel time reliability targets pertaining to the interstate (T2040 PM 6 and 8). Furthermore, the data is provided as a set number by from NPMRDS RITIS and there is no way to determine which portion of the roadway is assigned a specific score. There are five (5) projects on the Non-Interstate NHS, but none of them improve the person-miles traveled reliability (LOTTR) as none of the projects are adding auto capacity.

## **Transit Targets**

Transit State of Good Repair measures include the Useful Life Benchmark (ULB) for revenue and nonrevenue vehicles by auto type including full-sized buses, cutaway buses, vans, minivans, SUVs, and automobile. The percentage of assets with a condition rating below 3 on the FTA Transit Economic Requirements Model (TERM) scale is another federal performance measure, but there are no federally funded transit facilities in the MPO area. The MPO supports the State's target, but collected transit state of good repair information for local planning purposes only (Table 17).

#### Table 17: L-DC MPO T2040 Transit State of Good Repair Targets (Useful Life Benchmark – ULB)

Transit State of Good Repair		Vehicle Type	Target
16)		Full-sized bus	25%
	Revenue Vehicles	Cutaway bus	25%
16)	Nevenue venicies	Van	25%
		Minivan	25%
		Minivan	75%
16)	Non-Revenue Vehicles (Equipment)	SUV	75%
		Automobile	75%
17)	Percentage of assets with a condition rating below 3 on the	There are no federall	y funded facilities
	FTA Transit Economic Requirements Model (TERM) scale		

The Useful Life Benchmark (ULB) is the expected service years for a vehicle class. For example, a minivan is expected to last for at least 8 years. The MPO supports the State's targets. Targets set in the State TAM Plan are used for federal reporting. The L-DC MPO Target are for local planning purposes only.

Table 18 displays the Lawrence Transit 2020 Safety Targets. Lawrence Transit accepted the State's targets for all of the measures except system reliability. Safety events are comprised of collisions, fires, hazardous material spills, act of nature (Act of God), evacuation, or [other safety occurrence not otherwise classified] occurring on transit right-of-way, in a transit revenue facility, or in a transit revenue vehicle and meeting established NTD thresholds. These measures will be updated yearly.

		Fatalitian		In iteration		Cofety Events	
		Fatalities (per 100 Thousand		Injuries (per 100 Thousand	Safetv	Safety Events (per 100 Thousand	System Beliability
	Fatalities	Vehicle Revenue	Iniuries	Vehicle Revenue	Events	Vehicle Revenue	(Vehicle Revenue
Mode of Transit Service	(Total)	Miles)	(Total)	Miles)	(Total)	Miles)	Miles/Failures)
Fixed Route Bus Service	0	0	2	0.2	2	0.2	40,000
Demand Response Bus Service	0	0	2	0.2	2	0.2	40,000

#### Table 18: Lawrence Transit Safety Targets - 2020

Source: 2020-State Sponsored Agency Safety Plan Lawrence Transit and Kansas Department of Transportation. Lawrence City Commission 8/18/2020.

#### **TIP Projects Working Towards Transit Goals**

According to information provided by project sponsors, five (5) out of fourteen (14) transit projects will help address the transit useful life benchmark (shown in Table 19). The projects include purchasing new transit vehicles and preventative maintenance on vehicles. By purchasing these new vehicles the overall percentage of vehicles at or exceeding the Useful Life Benchmark (ULB) will be reduced (Table 19), Further, the Lawrence Transit Capital, Operating, and Electric Buses projects will work towards meeting the Lawrence Transit specific System Reliability Transit Safety target shown in Table 18 These projects are shown in Table 20.

#### Table 19: Projects addressing L-DC MPO Transit Useful Life Benchmark Targets

#	Project	How the Project Imrpovest Transit ULB
401	Independence Inc., FTA 5311 Operating & Capital	Vehicle preventative maintenance/Purchase New Vehicle
403	Lawrence Transit Capital Assistance	Purchase paratransit vehicles
412	Lawrence Transit Operating Funds	Vehicle preventantive maintenance
416	Lawrence Transit Electric Buses Phase 1	Replaces five diesel powered buses with electric buses
420	Lawrence Transit Electric Buses Phase II	Replaces two diesel powered buses with electric buses

#### Table 20: Projects addressing Lawrence Transit Safety Targets

	Transit Projects that Improve Safety			
#	Project	Safety Improvement		
419	American Rescue Plan (ARP) Operating Assistance	Transit safety		

## **Progress towards Targets**

In summary, based on information available, the MPO believes we are on track to meet the goals set in Transportation 2040.

## **Evaluating Performance over Time**

Federal performance measures will be tracked annually in the performance measure report – T2040 Appendix F: System Performance Report, which will be updated on a rolling basis based on when data is available. View the most current data at the performance measure website:

<u>https://lawrenceks.org/mpo/t2040/pm</u>. Performance measures will be evaluated as part of the annual report process and may be altered as the MPO Policy Board deems necessary (based on the Public Participation Plan (PPP)). Evaluating performance measures will be updated when a full TIP update is completed or if regulations have changed requiring an update.

FFY2023 TIP

5

# ENVIRONMENTAL JUSTICE REVIEW & EQUITY ...HOW ARE WE ELEVATING EQUITY?

The Environmental Protection Agency (EPA) defines Environmental Justice as the "fair treatment for people of all races, cultures, and incomes, regarding the development of environmental laws, regulations, and policies." Environmental Justice (EJ) is a federal requirement that projects using federal funds be selected and distributed fairly to all people regardless of income or race and that all people have equal access to the benefits afforded by federally funded projects as well as equal access to the decision-making process for the selection of those federal projects.<sup>1</sup> This concept is conveyed in the three Environmental Justice Principles shown in Figure 8.

#### Figure 8: U.S. DOT Environmental Justice Principles

To avoid, minimize, or mitigate disproportionately high and adverse human health and environmental effects, including social and economic effects, on minority populations and low-income populations.

To ensure the full and fair participation by all potentially affected communities in the transportation decisionmaking process.

To prevent the denial of, reduction in, or significant delay in the receipt of benefits by minority and low-income populations.

Read about how the MPO is providing access to the transportation planning process at <u>www.lawrenceks.org/mpo/public\_participation</u>.<sup>2</sup>

## **Methodology for Identifying EJ Populations**

The MPO identifies minority and low income populations and evaluates their proximity to TIP projects at a regional scale. The MPO then examines the distribution of funds. However, ultimately project selection and scope are the responsibility of the project sponsor. Thus the MPO recommends project sponsors consider equity when selecting projects.

## **Define Target Populations and Thresholds**

Low-income and minority populations were identified in the MPO area. This is done by utilizing Census block groups and 2011-2015 American Community Survey (ACS) 5-year estimate data. Block groups are determined to meet the EJ threshold if they meet either of the criteria listed below.

Low/Moderate Household Income Population, by 2010 Census Block Groups (and April 2019 income data)

The threshold for low/moderate household income was 51 percent or more of the population residing in households earning less than 80 percent of the area's median income. The City of Lawrence Neighborhood Resources Division of the Planning and Development Services Department currently

<sup>1</sup> This policy is defined in Executive Order 12898 that was signed by President Clinton on February 11, 1994.

<sup>2</sup> Title VI Civil Rights and Environmental Justice Non-Discrimination issues can be found in the MPO's Title VI Program Manual and the Public Participation Plan. More Environmental Justice information related to programs, including MPO operations which are funded by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA), can be found at the following website: <u>https://www.fhwa.dot.gov/environment/ environmental\_justice/</u>

uses this information to identify areas within the community that have higher concentrations of low and moderate income residents. This data is updated every five years unless there is a change to the census tracks and block group boundaries. Various housing rehabilitation program funds and Community Development Block Grant (CDBG) funds are targeted toward these areas.

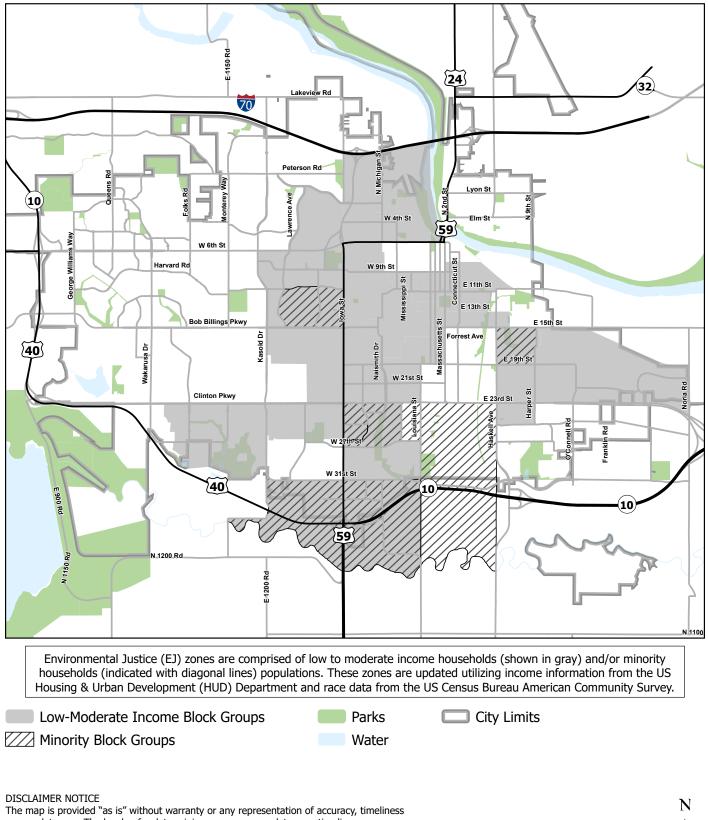
135% of Mean Minority Population, by 2020 Census Block Groups

The US Census Bureau collects demographic data for race and ethnicity. The majority race in this region is White/Caucasian and the other races, as well as those of Hispanic or Latino origin, collectively are considered as the minority group population for this EJ analysis. Census Block Group data indicates 22.6% of Douglas County belongs to a minority population. A threshold of 135% of the county average is used to assess Block Groups with high concentrations of minority populations. 135% of 22.6% is 30.5%, meaning Block Groups that exceed 30.5% minority population are classified as EJ zones. Figures 9 and 10 show these EJ zones.

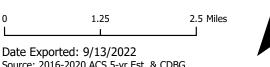
## **Transportation Disadvantage**

Similar to EJ review, evaluating transportation disadvantage provides a data driven approach to understanding distribution of transportation networks, services, and projects. Transportation disadvantage builds upon the approach of EJ but includes additional criteria. These criteria include: households with a person who has a disability, people who have less than a high school education, minorities, single parent households, zero vehicle households, population under 18 and over 65, and low-moderate income households. This TIP does not include analysis of transportation disadvantage but it is a tool that can be used for project selection. To view more information visit <u>https://lawrenceks.org/mpo/transportation-disadvantaged</u>.

#### Figure 9: EJ Zones



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Source: 2016-2020 ACS 5-yr Est. & CDBG Produced: Lawrence-Douglas County MPO

## Assess and Analyze Investments in the TIP

When assessing and analysing investments in the TIP and their effect on EJ populations and Transportation Disadvantaged Populations it is more than only the location of projects and how many are (or aren't) in EJ areas. Further, considerations for long and short term effects of projects must be considered. The term "Disproportionately High and Adverse Effects" is utilized in this analysis, which refers to interrelated social and economic effects which may include:

- Bodily impairment, infirmity, illness or death.
- Air, noise, water pollution and soil contamination.
- Destruction or disruption of man-made or natural resources.
- Destruction or diminution of aesthetic values.
- Destruction or disruption of community cohesion or a community's economic vitality.
- Destruction or disruption of the availability of public and private facilities and services.
- Vibration.
- Adverse employment effects.
- Displacement of persons, businesses, farms or nonprofit organizations.
- Increased traffic congestion, isolation, exclusion or separation of minority or low-income individuals within a given community or from the broader community.
- The denial of, reduction in or significant delay in the receipt of benefits of Federal Highway Administration (FHWA)/Department of Transportation (DOT) programs, policies or activities.

Disproportionately high and adverse effects refer to effects that:

- 1. Are predominately borne by a minority population and/or low-income population.
- 2. Will be suffered by the minority population and/or low-income population and are appreciably more severe or greater in magnitude than the adverse effect that will be suffered by the non-minority population and/or non-low-income population.

#### Analysis of Road/Bridge & Bicycle/Pedestrian TIP Projects

The following pages present information about the TIP projects and their impact on EJ zones and Transportation Disadvantaged Populations. Although the MPO does not select projects, it is the MPO's duty to present data and information related to equity to assist project sponsors in selecting projects which will not disproportionally have high and adverse effects on low income, minority, or other transportation disadvantaged populations.

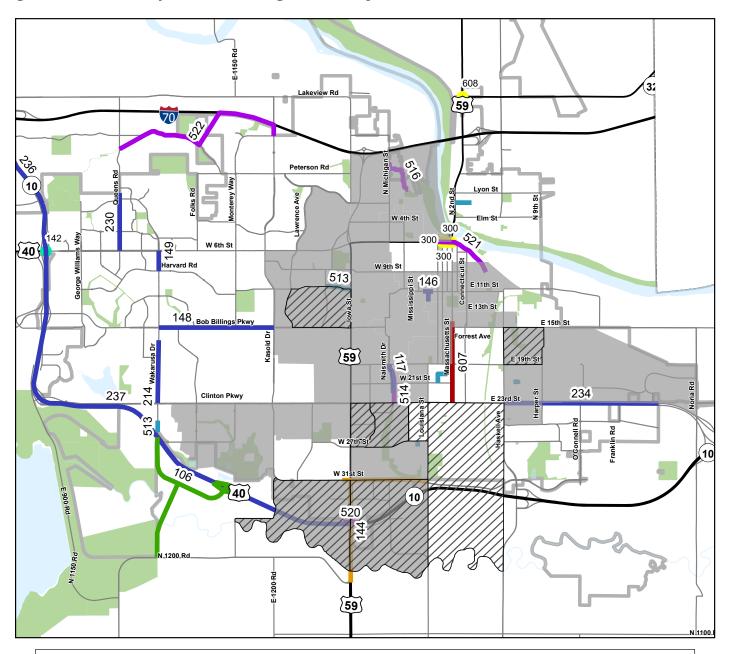
The fiscally constrained TIP projects were mapped to see where the projects intersect with EJ zones. Not all TIP projects could be mapped for the EJ analysis. This analysis does not include transit allocations, planning studies, and projects that are not limited to a specific point on a map. Table 22 shows the total 2021-2024 TIP projects, the TIP projects that were able to be mapped, and the mapped TIP projects that are within the EJ zones. Thirty-three (33) projects were mapped in this 2023-2026 TIP, for a combined total of \$154.4 million. Of the 33 mapped projects in the TIP, 13 are considered EJ projects for the purpose of this analysis for a total improvement cost of \$66.6 million (as shown in Table 21). Approximately 43% of the total funding for the 33 mapped projects will be invested in EJ zones. These projects are within or intersect a road that is in an EJ zone or along an EJ zone border and are shown in Figure 10.

#### Table 21: Fiscally Constrained TIP Projects (shown in \$1,000s)

	Number of Projects	Total Project Cost	:s*			
TIP Projects (2023-2026)	48	\$ 221	,025			
TIP Projects Mapped (2023-2026)	33	\$ 154	4,433			
TIP Projects Mapped In EJ Zones (2023-2026)	13	\$ 66	i <b>,</b> 592			
*Total project costs include project phases outside of the TIP years (2023-2026)						
Note: TIP Project 507 Various Lawrence Sidewalk/Bike/Ped/ADA Ramps Projects are not mapped						
but EJ prioritization is included in the process of project selection, thus this project was included in						
the projects mapped in EJ zones.						

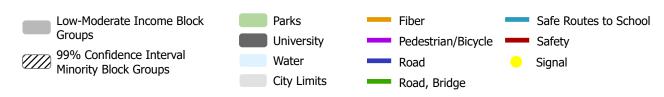
#### Table 22: EJ Zone Projects (shown in \$1,000s)

	Project Name	Project Type	<b>Miles of New</b>	Miles of New	Total Project	
	Project Name	Ргојест туре	Bikev	Bikeway	Sidewalk	Cost
117	Naismith Drive Reconstruction: 19th St. to 23rd St.	Road	0.5	0	\$ 4,300	
144	South Iowa St. Traffic Signal Improvement Project	ITS	0	0	\$ 863	
146	11th St Indiana to Ohio; Louisiana - 11th to 12th Reconstruction	Road	0.25	0.05	\$ 1,750	
234	23rd Street Reconstruction: Haskell to East City Limits	Road	TBD	TBD	\$ 10,850	
237	SLT/K-10 West Leg in Douglas County	Road/Interchange	0	0	\$ 30,800	
300	6th and Massachusetts St Traffic Signal Improvement Project	ITS	0	0	\$ 700	
507	Various Lawrence Bike/Sidewalk/ADA Ramps Projects	Pedestrian/Bicycle	TBD	TBD	\$ 3,650	
513	Lawrence Safe Routes to School Phase 2 (2021)	Transportation Alternatives	0	0.9	\$ 675	
514	Naismith Drive Mobility Enhancement	Pedestrian/Bicycle	0.25	0.25	\$ 412	
516	Lawrence Loop Shared Use Path: Michigan St. to Sandra Shaw Park	Transportation Alternatives	0.47	NA	\$ 1,451	
520	Lawrence Loop - Iowa Crossing	Pedestrian/Bicycle	0.03	0	\$ 1,898	
521	Lawrence Loop Trail - Kaw River -7th street to Constant Park	Pedestrian/Bicycle	0.5	0	\$ 9,905	
607	Massachusetts Street - 14th to 23rd Street Multi-Modal Improvements	Safety	1.1	0.25	\$ 1,600	
		Totals	3.1	1.45	\$ 68,854	



#### Figure 10: MPO Fiscally Constrained Programmed Projects in Relation to EJ Zones

Environmental Justice (EJ) zones are comprised of low to moderate income households (shown in gray) and/or minority households (indicated with diagonal lines) populations. These zones are updated utilizing income information from the US Housing & Urban Development (HUD) Department and race data from the US Census Bureau American Community Survey.



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Date Exported: 9/20/2022 Source: 2016-2020 ACS 5-vr Est & CDBG

1

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Source: 2016-2020 ACS 5-yr Est. & CDBG Income Produced: Lawrence-Douglas County MPO

2 Miles

EJ analysis is more than just the location of the projects and how many are (or aren't) in EJ areas. Therefore additional data was gathered on the projects and the EJ zones. Projects were evaluated to determine their contribution to meeting the region's performance measure goals. Information was gathered about the EJ zone versus the rest of the County. As shown in Table 23, 13% of the miles of road centerline are located in the EJ zone, while the EJ comprises 4% of the total square miles for the County and 53% of the total population. The EJ zone has a per capita spending on TIP projects of \$1,065 compared to \$1,510 in the non EJ zone. The geographic distribution of projects in relation to defined EJ zones indicated EJ areas are not being denied the benefit of federal transportation spending.

	Total Douglas County	Non EJ Zone	EJ Zone	EJ Zone%
# of Road Centerline Miles	1451	1260	191	13%
Square Miles	475	456	19	4%
Population	121,304	56679	64,625	53%

#### Table 23: EJ Zone Statistics v. Douglas County

Transportation 2040 has twenty-six (26) performance measures, a mixture of federally required and locally developed measures. Several of them address access and transportation barriers.<sup>1</sup> The analysis below delves into the measures and the anticipated impacts of the projects programmed in this TIP.

Access to the bicycle and pedestrian networks is also important when considering equity. Access is directly tied to health equity. Health inequities can refer to people having difficulties obtaining medical services, high transportation costs, and long commute times. Transportation 2040 Performance Measure #1 is the percentage of households who have access within a ¼ mile to the bikeway network (bicycle boulevard, bike lane, protected bike lanes, shared use path). Overall access to the bicycle network is slightly higher in EJ areas than non EJ areas.



6.0%

8.0%

Eudora

4.2%

4.0%

10.0%

Baldwin City

3.5%

3.5%

12.0%

14.0%

Lecompton

0.0%

0.0%

16.0%

Unincorporated

Douglas County

0.6% 0.6% 18.0%

#### Figure 11: Percentage of Households who have Access within 1/4 mile to the Bikeway Network (T2040 PM1)

Note: The EJ Zone changes as newer socio-economic data is available; therefore, the EJ Zone changed between 2019 and 2020.

2.0%

Lawrence

13.9%

13.7%

4.0%

EJ Zone

15.3%

14.6%

Eudora

EJ Zone

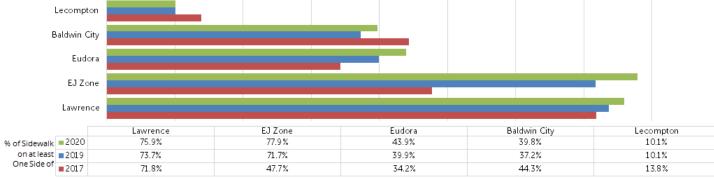
Lawrence

2020 Total Bikeway Network Access

2019 Total Bikeway Network Access

0.0%

Another measure to measure access to bicycle and pedestrian facilities is Transportation 2040 Performance Measure #2 (Percentage of public streets with sidewalks on at least one side). Overall access to the pedestrian network is slightly higher in EJ areas than non EJ areas. Access provides mobility and opportunities to improve quality of life, thus projects should be prioritized in the EJ areas which provide transportation choices. There are thirteen (13) projects in the FFY2023 TIP which will add to the bicycle and pedestrian networks thereby increasing access. At least 2.5 miles of new sidewalks and 3.1 miles of new bikeways will be constructed in the EJ zone. These numbers do not take into account facilities on 23rd St. Reconstruction: Haskell Ave. to East City Limits (234) or the Various Lawrence Sidewalk/Bike/Ped/ADA Ramps (507) projects as the miles have not been determined. Project 514 – Naismith Mobility Enhancement – is installing sidewalk and transit connections and improvements in an EJ area. This project will pave the existing "goat path" where people have historically walked. Project 507 - Various Lawrence Sidewalk/Bike/Ped/ADA Ramps - is a grouped project for the dedicated funding for non-motorized projects and ADA Ramps in Lawrence. Approximately \$675,000 of local funding is available every year for dedicated bicycle and pedestrian projects and \$325,000 of local funding is programmed every year for improving ADA ramps. The dedicated bike/ped funding utilizes the Non-Motorized Projects Prioritization Policy to select projects. Consideration of equity in distribution of projects in EJ zones is part of the selection process. Also \$300,000 of Community Development Block Grant (CDBG) is budgeted to the City of Lawrence to address sidewalk and ADA ramp issues in the low/moderate income areas (a portion of the EJ zones). The City is allocated a percentage of CDBG funding each year so the \$300,000 is a place holder. All of the local and federal funding used to build new miles of bikeway and sidewalk will improve connectivity and mobility for all populations.



## Figure 12: Percentage of Public Streets with at Least Sidewalk on One Side of Streets (T2040 PM2)

Note: The EJ Zone changes as newer socio-economic data is available; therefore, the EJ Zone changed between 2017, 2019, and 2020

The Center for Neighborhood Technology's Total Driving Costs tool measures the costs of car ownership and use for jurisdictions.<sup>1</sup> It utilizes a variety of data points to determine if transportation costs are unaffordable, which are any costs that are higher than 15% of an aver

<sup>1</sup> Access the Center for Neighborhood Technology's Total Driving Costs tool at: <u>https://htaindex.cnt.org/total-driving-costs/</u>

## Table 24: Average Cost of Transportation per Household (T2040 PM22)

	T	otal Annual	Annual Transportation Costs %
	Trans	portation Costs	Over Affordable
Lawrence	\$	12,900	141%
Eudora	\$	15,059	165%
Baldwin City	\$	15,232	166%
Lecompton	\$	16,868	184%
Douglas County	\$	13,725	150%

Note: Annual Household Income: \$61,020

15% of Income for Transportation = Affordable: \$9,153

Transportation costs are considered affordable if they are 15% or less of household income; This calculation used gas priced at \$3.80 and Regional Typical Household Characteristics. Data was gathered in 2017, an update will be completed when the CNT has grant funding potentially in 2021.

Source: Center for Neighborhood Technology's Total Driving Costs Tool

https://htaindex.cnt.org/total-driving-costs

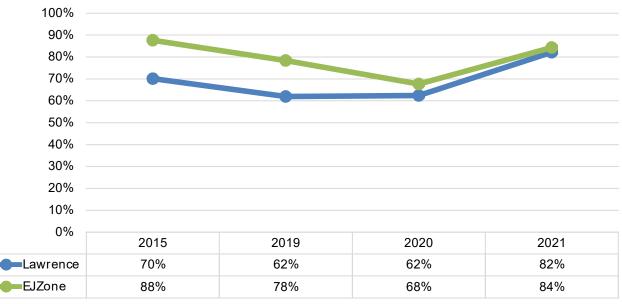
Another consideration is safety. Both vehicle and non-motorized (bicycle riders and pedestrian) crashes between 2017 and 2021 were mapped. A heat map showing the crashes and the number of crashes near TIP projects is found in Figure 6 (in the Performance Measure Chapter).

## **Analysis of Fixed Route Transit TIP Projects**

Lawrence Transit & KU on Wheels 2022 fixed routes are shown on Figure 21. Sixteen (16) or 80% of the current routes have 30 minute or less service during peak times. As resources become available, Lawrence Transit & KU on Wheels are transitioning routes which warrant increased service to 30 minute or less service during peak times; however, KU on Wheels has seen recent service reductions due to budget constraints. Route information can be accessed at <u>www.lawrencetransit.org/routes</u>. None of the Lawrence Transit projects were mapped because transit service occurs throughout the community and is not located on one fixed point. Lawrence Transit projects include operating costs for fixed route and paratransit services, as well as the capital costs associated with vehicle acquisition.

Transportation 2040 Performance Measure #5 is the percentage of households with access within a 1/4 mile to a bus stop (Figure 13). Overall access to bus stops in EJ areas in comparison to Lawrence as a whole has increased since 2015. The Naismith Drive Mobility Enhancement (# 514) project will increase access by installing sidewalk leading to a bus stop. There are other unmapped bicycle and pedestrian projects (CDBG and Lawrence dedicated bicycle and pedestrian projects) which will likely improve access. Future analyses will evaluate the access added by these projects.



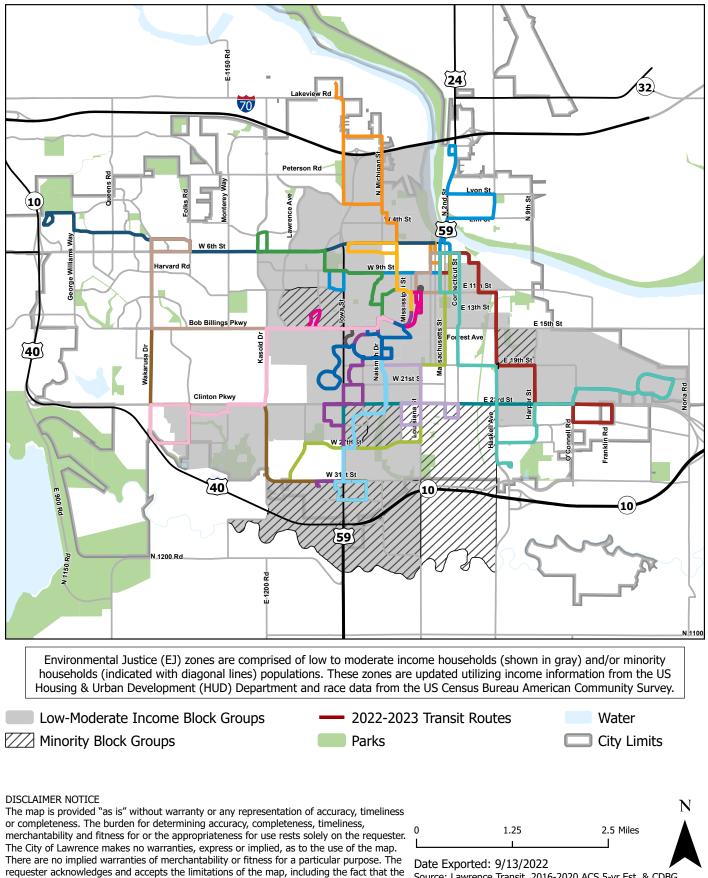


Note: Access was calculated for the EJ zone that existing in 2021 has not been calculated for the EJ area included in this TIP. The EJ Zone changes as newer socio-economic data is available, inlcuding in 2019 and 2020

For the case of federally supported transit services, both the fixed route system and paratransit service areas, cover parts of Douglas County with low-income and/or minority populations (Figure 14). Therefore, the TIP projects associated with these transit and paratransit services are all considered to serve EJ populations and to be located in EJ zones for the purpose of this analysis. If there is any difference with EJ zones it seems to be that some EJ zones receive greater choice and frequency of transit services because those areas coincide with the parts of the region with population densities high enough to support frequent fixed route transit (see the transit routes overlaid on population estimates in Figure 15).

Further, maps were created to determine the percentage of households within the EJ zones that are within a ¼ mile buffer of transit routes and the Transportation Disadvantaged Population overlaid with the fixed route transit routes. As shown in Figure 13, approximately 84% of households within the EJ zones are within ¼ mile of a transit route. A ¼ mile is generally the distance people are comfortable walking. Thus, 84% of households within EJ zones have easy to access transit service, thereby expanding their mobility.

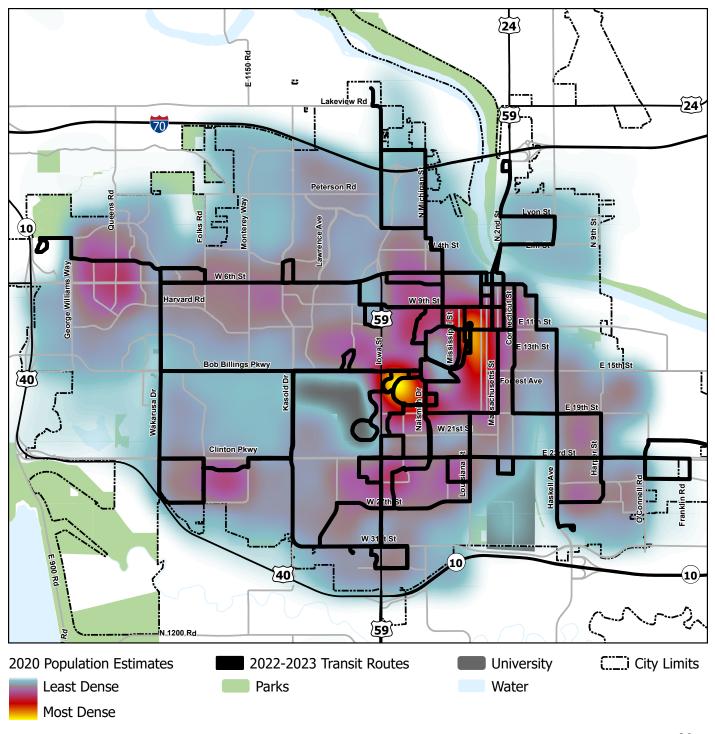




Source: Lawrence Transit, 2016-2020 ACS 5-yr Est. & CDBG Produced: Lawrence-Douglas County MPO Income

map is dynamic and is in a constant state of maintenance, correction and update.





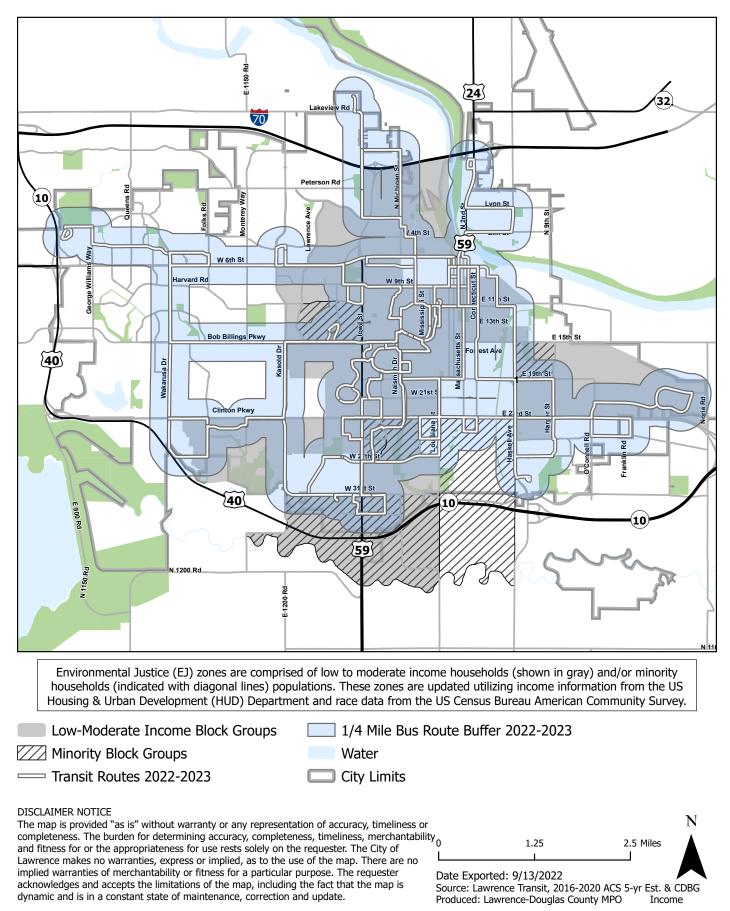
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Source: Lawrence Transit & Plan 2040 Population Est. Produced: Lawrence-Douglas County MPO





FFY2023 TIP

## Conclusion

Reviewing the assessment and analysis in this chapter the MPO believes there are no significant EJ issues with the selection of roadway, bridge, pedestrian/bicycle, or transit projects in Douglas County. This TIP includes projects inside and outside of EJ zones. Although not covered under Executive Order 12898, populations that may be transportation disadvantaged — people who have a disability, people who have less than a high school education, single parent households, zero vehicle households, and population under 18 and over 65 — were spatially analyzed and appear to be served by federal transportation investments.

The region's transportation projects are selected based on the merit of the project and the need for improvements to the transport system without any intended bias towards impacting EJ areas any more than any other area in the region. However, paying particular attention to EJ and Transportation Disadvantaged Areas when project selection occurs by the local entities will ensure equitable outcomes can be achieved. The MPO should continue to encourage best practices by project sponsors through project prioritization measures, such as scoring for EJ considerations and quality public participation.

Furthermore, future performance measure reports will include an analysis about the Transportation Disadvantaged Population access to the bikeways (PM1), sidewalk (PM2), and transit stops (PM5).

Α

# PLANNING & ENGINEERING FACTORS FOR LOCAL PROJECT CONSIDERATION **APPENDIX A**

## Planning Factors

- Is the project consistent with the goals and objectives found in the Metropolitan Transportation Plan (MTP)?
- Is the project listed as a recommended transportation system improvement in the MTP?
- Is the project regionally significant as defined by federal regulations and the latest Regionally Significant Policy approved by the MPO?
- Is the project consistent with the latest MPO/FHWA approved Functional Classification Map?
- Is the project consistent with the latest locally approved comprehensive plan (including the land use plan, area plans, Safe Routes to School, and other comprehensive plan elements/chapters) covering the project location?
- Does the project include provisions for transit, bicycle, and pedestrian movements (including students and ADA accessibility) as needed to provide a regional multimodal transportation system?
- Has the project sponsor considered Title VI, Environmental Justice (EJ), and Transportation Disadvantage Populations impacts in the planning for this project, and if the project is in a minority and/or low-income area has the project sponsor considered and addressed the Title VI and EJ issues related to the project?
  - Federally required EJ characteristics include: minority and low-income populations
  - Transportation disadvantages populations include: households with a person who has a disability, people who have less than a high school education, minorities, single parent households, zero vehicle households, population under 18 and over 65, and low income households.
- Has the project sponsor received public comments about this project and if received considered those public comments in the planning and design of the project?
- Is the project eligible for the type of federal and/or state funding being proposed for it, and is there adequate funding available for the project in the year it is proposed?

## **Engineering Factors**

- Does the Project address a facility that has (existing or projected) a high volume to capacity ratio indicating it or will experience significant congestion and lower levels of service?
- Does the project location have a traffic accident history marked by a higher than expected accident rate which, along with other accident attributes, indicates that an engineering change could reduce the number and/or severity of crashes?
- Does the project location have pavement conditions noting a deteriorated state showing that the facility is in need of improvements to maintain its function and/or that those improvements can be made economically now before more costly reconstruction is needed?
- Does the project site include geometric design that is inadequate by current standards and does the project sponsor have documentation that this design is hampering the facility's ability to handle the traffic loads and/ or vehicle sizes using the facility in a safe and efficient manner, and does the project sponsor plan to address those geometric deficiencies as part of this project?
- Does the project site or facility have structural deficiencies indicating that the facility is near the end of its projected lifespan and that it will need frequent maintenance to function adequately, and does the project sponsor plan to address these structural deficiencies as part of this project?
- Have safety concerns involving motorists, bicyclists, pedestrians and/or transit users and transit operations been identified at the project location and does the project sponsor plan to address those concerns as part of this project?
- Has the project location met minimum engineering standards set by the project sponsor that indicate the facility is in need of improvement, rehabilitation or replacement?

\*This list is not exhaustive. It is used at the discretion of local governments and project sponsors and may be changed in the future.

## В

# DEFINITIONS OF MAJOR PROJECTS & SIGNIFICANT DELAY APPENDIX B

Roadways (including intersections and bridges)

The major roadway projects include projects located on a roadway classified by the MPO as a Major Collector or higher, with construction costs of at least \$2.0 million and that have at least one of the following attributes:

- Designed to increase roadway capacity and/or decrease traffic congestion
- Designed to improve safety
- · Designed to replace aging infrastructure and bring it up to current standards
- Results in significant delay and/or detours during construction

Major projects do not include the following types of projects that are considered to be routine maintenance projects: mill & overlay, micro-abrasion, micro-surfacing, crack sealing, concrete rehabilitation, curb repairs, sweeping, mowing, spot repairs, and interim measures on detour routes.

## Transit Facilities and Services

The major transit projects include projects that need to be listed in the TIP because they use federal funding and/or are regionally significant, have a total cost of at least \$1.0 million, and meet at least one of the following criteria:

- Acquisition of three or more new transit vehicles
- Addition or expansion operations and/or maintenance buildings
- Initiation of new transit service or expansion of transit services into territory not previously served

Major transit projects do not include the following types of projects that are considered to be routine: preventive maintenance on transit vehicles; purchase of spare parts, shop supplies and fuel; annually received formula based operating assistance; purchase of bus stop signs, shelters and related items; scheduled purchases of one or two transit vehicles; staff training and recruitment; and other routine operational activities.

## Bikeway and Pedestrian Facilities

The major bikeway and pedestrian projects includes projects that need to be listed in the TIP because of federal funding and/or regional significance, and meet at least one of the following criteria:

- Total project cost of at least \$ 500,000
- Construction of bikeway or pedestrian facility (or extension of existing facility) into a location where a bicycle/pedestrian facility did not exist before

Major bikeway/pedestrian projects do not include the following types of projects that are considered to be routine maintenance projects: patching, crack sealing, curb repairs, sweeping, mowing, spot repairs, landscaping maintenance, sign replacements, and other routine operational activities.

## Significant Delay

The term significant delay will be defined as two years or more from the year first listed for the project in the previous TIP.

# PROGRESS ON PREVIOUS TIP c | PROJECTS **APPENDIX C**

The following projects from the previous 2021-2024 TIP were implemented between the start of 2021 and the approval date for this new 2023-2026 TIP.

## **Table C-1: Completed Projects**

#	Project Type	Project Name	Project Sponsor	Location	Description	Year
107	Road	Kasold Drive Reconstruction: Clinton Pkwy to	Lawrence	Kasold from 22nd St to	Reconstruction of street including pavement, storm sewer, sidewalks,	2017-2020
107	Road	HyVee	Lawrence	Clinton Pkwy Beginning 0.48 miles West	bicycle facilities, and median.	2017-2020
135	Road	K-10: West of E1900 East to DG/JO County Line Surfacing	KDOT	of E1900 thence east to the Douglas/Johnson County line	Surfacing	2019-2021
136	Road	K-10: West Leg Surfacing	KDOT	Beginning at Junction I- 70/KTA/K-10 thence east to Junction K-10/US-40/US-59	Surfacing	2020-2021
		US-40 in Douglas		US-40: 0.15 miles East of the DG/SH county line east	Januaria	2020 2021
137	Road	County (1R Project) US-56 in Douglas	KDOT	to Junction US-40/K-10 US-56: OS/DG county line East to 0.22 miles west of	Surfacing	2020-2021
138	Road	County (1R Project)	КДОТ	Junction US-59/US-56	Surfacing	2020-2021
141	Road	Church Street Improvements: 15th St. to 14th St.	Eudora	Approximately 1,550 feet of improvements to Church St. beginning 600' south of the 15th St. intersection, north through the 14th St. intersection.	Expand & add drive/turn lanes, traffic signal at 15th St, curb & gutter, improved stormwater facilities & drainage, pedestrian infrastructure (crosswalks, ADA ramps, sidewalks, multi-modal transportation stops).	2021
		US-24 Surfacing: Junction US-24/K-32 to the Douglas/Leavenworth		Junction of US-24/K-32 to	Ultrathin Bonded Asphalt Surfacing	
145	Road	County Line	KDOT	the DG/LV County Line	(UBAS) and Rumble Strips on Centerline	2022
208	Road	Route 1055 at North 700 Curve	Douglas County	Route 1055 from 725 North to 1670 East	Roadside safety improvements, replace two bridges and one culvert.	2020
220	Road	Route 1055 Improvements: N1000 to N1180	Douglas County	N1000 to N1180	Construct paved shoulders; replace narrow culvert; flatten roadside slope.	2019-2020
229	Road	19th Street Reconstruction: O'Connell Rd to Harper St	Lawrence	O'Connell Rd to Harper St	Reconstruct & tie into venture park and construct sidewalk & shared use path.	2016-2021

## Table C-1: Completed Projects (Continued)

#	Project Type	Project Name	Project Sponsor	Location	Description	Year
506	Transportation Alternatives	Lawrence Safe Routes to School TA Phase 2	Lawrence	Various sidewalk along 6 streets in Lawrence	New sidewalk construction along designated Safe Routes to School. Driveway and sidewalk ramp construction will be included for ADA compliance.	2018-2019
508	Transportation Alternatives	Lawrence Loop Shared-Use Paths - 8th St to 11th St & 29th St	Lawrence	11th St to 9th St through Hobbs Park and along Delaware St & 29th St Haskell Rail Trail to Haskell Ave	Design and construction of 10' shared- use path	2019-2021
510	Transportation Alternatives	Bluejacket Trail: Phase II	Eudora	1201 Cedar St. to 1702 Cypress Ct. in Eudora	Design, engineer, and construct an ADA- compliant, approximately 7,050' long, 8' wide shared-use path.	2019-2020
512	Transportation Alternatives	Lawrence Loop Shared Use Path: Peterson Rd to Michigan St	Lawrence	Begins at the intersection of Peterson Rd and N Iowa St, ends at Michigan Rd 1/2 mile north of W 2nd St	Design and construction of 10' shared use path.	2020-2022
606	Safety	Rte 1061 / Rte 460 Intersection Safety Improvement	Douglas County	E 2200 RD from N 700 RD 0.3 miles north	Improvements to improve sight distance at the intersection of two county routes.	2022-2023
700	Other	South Lawrence Trafficway Widening Study	KDOT	K-10 West Leg in Douglas County US 59/K10/Iowa to I70/KTA/K10 Junction	Study K10 becoming a 4-lane freeway. This project will review project area issues, current transportation needs, impacts on current projects, interchange configurations and reevaluate the environmental documentation for the preferred improvements.	2015-2018
		K-10 (US-40) & 27th St/Waka. Intersection			Intersection improvement: add EB right turn lane on K-10, extend WB turn lane on K-10, add a NB right turn lane, revise pavement markings, mill & overlay north and south intersection legs & reconstruct sidewalk crossing. Permanent seeding &	
		Improvements Traffic Signal	KDOT	K-10 and 27th St/Wakarusa	Provide a comprehensive update to the traffic signal system, optimize operations and development of a long-term city-wide traffic signal coordination and timing	
706	Intersection	Coordination Study	Lawrence	Arterial streets	program.	2019

## Table C-2: Significantly Delayed Projects

#	Project Type	Project Name	Project Sponsor	Location	Description	Year
					New road construction to extend	
					Wakarusa Drive from planned K-10	
			Douglas		interchange to Route 458. Includes new	
		Wakarusa Drive	County/Lawre	Clinton Parkway to N 1200	bridge over Wakarusa River. *Alignment	
106	Road, Bridge	Extension	nce	Rd	not finalized	2019-2025
		Wakarusa Dr.			Reconstruction of street will include	
		Reconstruction:			subgrade treatment, surfacing, storm	
		Research Pkwy to		Wakarusa: Research Pkwy	sewer, geometric improvements, and	
214	Road	23rd St	Lawrence	to 23rd St	multimodal facilities.	2022-2023
					Construct paved shoulders; replace	
		Rte 458/1055			narrow bridges and culvert; flatten	
		Improvements: E	Douglas	E1500 to E1600 & N940 to	roadside slope; and improve	
219	Road	1500 thru E 1600	County	N1000	intersections.	2020-2021
					Construct Queens Road, roundabout at	
		Queens Road: 6th to			Overland Dr & Queens Rd, construct	
230	Road	North City Limits	Lawrence	6th St to North City Limits	sidewalk & bike lanes.	2015-2022
		23rd Street			Reconstruction of street including	
		Reconstruction:			pavement, storm sewer, geometric	
		Haskell to East City		Haskell Ave to East City	improvements and multimodal	
234	Road	Limits	Lawrence	Limits	facilities.	2020-2022
		US-56 Improvements:			Improvements to US-56 - Realign	
		Eisenhower St to 1st			Eisenhower and construct 3 lane US-56	
243	Road	St	KDOT	Eisenhower St to 1st St	in Baldwin City.	2021

D

# LATEST FEDERAL FISCAL YEAR - LIST OF OBLIGATED PROJECTS APPENDIX D

The purpose of this listing is to illustrate the progress of federal aid transportation projects in the region as they move through the years in the TIP projects table and onto the recently obligated projects list. Projects are listed based on the year the federal funds were obligated, not necessarily the year the construction of the project began. The federal amount represents the federal funds spent on the project.

The table below describes projects listed in the TIP that were obligated in the previous Federal Fiscal Year (FFY). A listing of projects with federal aid obligated in the previous FFY are presented to the MPO each year for review either as part of a TIP approval or amendment or as a separate memo.

The listing will be is available on the MPO website and is sent to the Kansas Department of Transportation who will then distribute the listing to the FHWA and the FTA for informational purposes.

Transit Projects											
MPO #	KDOT #	Project Name/Location	Projec	t Description	Federal Funding Source	Federal Funds Requested in TIP	Federal Funds Obligated in FFY 2022	,000 S Federal Funds Obligated To Date (Cumulative)	Federal Funds Remaining/ Unliquidated Obligation	Bike &/or Ped Elements	Projec Statu
2	FFY 2021 5307 FTA	Lawrence Transit - Operating Funds	Operating and Preventativ	e Maintenance activities	5307	\$2,532	\$1,360	\$1,442	\$1.091	No	) Act
-	FFY 2020		operating and reventation		5507	<i>\$2,552</i>	\$1,500	\$1, <del>11</del> 2	\$1,051	110	710
2	5307 FTA	Lawrence Transit - Operating Funds	Operating and Preventativ	e Maintenance activities	5307	\$2,523	\$1,673	\$2,523	\$0	No	Ac
7	FFY 2021 CARES Act	Lawrence Transit - Operating Funds	Operating and Preventativ	vo Maintonanco activitios	5307 CARES Act	Req \$1,921 ACTUAL \$2,429	\$2,429	\$5,440	\$1,686	No	) Ad
/	FFY2021	Lawrence mansic Operating runus	Procurement of five batte	ry electric buses to replace five sociated charging infrastructure,	CARESAC	\$2,425	\$2,429	\$3,440	⇒1,000	NC	~
6	5339 FTA	Lawrence Transit Electric Buses	and project management.		5339	\$3,756	\$3,427	\$3,527	\$229	no	) A
			Non-Transit Projects Cost in \$1,000's								
MPO #	KDOT #	Project Name/Location	Projec	t Description	Federal Funding Source	Federal Funds Requested in TIP	Federal Funds Obligated in FFY 2022	Federal Funds Obligated To Date	Federal Funds Remaining	Bike &/or Ped Elements	Proje Stat
)5	C-5065-01	Douglas County: Horizontal Curves on RS-212 and RS-2		e treatment - child project of a	HSIP	\$1,011	\$1,011	\$1,011	\$0	No	Active
			lane on US-40/K-10, exten	,							
5	KA-3634-08	US-40/K-10 at 27th Street Intersection Imp DG Co	Permanent seeding and si	gning.	HSIP	\$768	\$36	\$768	\$0 1	No	Comp
				ared-use path, add lighting, ADA						,	
9	TE-04/2-02	West Baldwin Bike Ped Connectivity Phase 2		enches, trash receptacles, etc. shared-use path including a	TA	\$1,013	\$1,019	\$1,455	-\$442	res	Active
2	TE-0490-01	Lawrence Loop: N Iowa to Michigan		of the KTA at McDonald Dr.	TA	\$1,070	\$1,070	\$1,070	\$0 \	/es	Active
	TE-0497-01	Eudora 10th Street Sidewalk Expansion	Construct 6' sidewalks and infrastructure		TA	\$1,781	\$1,450	\$1,450	\$331 \	/es	Active
:	U-2372-01	Lawrence: Safe Routes to School Phase 2	Construct new sidewalks, crosswalks	ADA ramps and improved	TA	\$500	\$146	\$500	\$0 \	/es	Active
)9 - FTA	Section 5309 - C	perating Assistance, Preventive Maintenance, Program Administrat apital Bus and Bus Facilities derly and Disabled	ion, & Security and Capital	5317 - FTA Section 5317 - New Freedom 5339 - FTA Section 5339 - Bus and Bus Fac BR - Bridge Replacement Funds HSIP - Highway Safety Improvement Proj		STP - Surf SRTS - Sat					

## Table D-1: Obligated Projects From FFY2022

Ε

# TIP PUBLIC PARTICIPATION APPENDIX E

## Figure E-1: TIP Development Timeline

Task	Date
Call for Projects Due	8/31/2022
Develop new TIP	9/1/22 - 9/16/22
Send draft to KDOT, FHWA, and FTA for review	9/16/2022
30 day public comment period*	9/23/22 - 10/22/22
TAC consideration of TIP	10/4/2022
Incorporate public comments	10/23/2022
MPO Policy Board consideration of TIP and public comments	10/27/2022
Send approved TIP to KDOT, FHWA, and FTA	10/28/2022
Inclusion in Kansas STIP	11/3/2022

## Figure E-2: Public Comment and Approval Summary

TIP Amendment Request Made to MPO Staff	Public Review Period	# of Public Comments	TAC Action	Policy Board Action
Original Approval	9/16/2022 to 10/15/2022	0	October 4, 2022	October 28, 2022
Ammendment 1	3/9/2023 to 3/24/2023		April 4, 2023	April 20, 2023
Amendment 2	5/11/2023 to 5/26/2023		June 6, 2023	June 15, 2023
Amendment 3	7/6/2023 to 7/21/2023		August 1, 2023	August 17, 2023
Amendment 4	to			
Amendment 5	to			
Amendment 6	to			

TIP public comments and MPO staff responses can be viewed at www.lawrenceks.org/mpo/tip/ comments.

## SUMMARY OF TIP CHANGES APPENDIX G

Note: Future TIP Amendments will be summarized here

F

# **TIP PROJECT LISTINGS APPENDIX H**

Project Type: Classified into categories:

- Bridge

- ITS

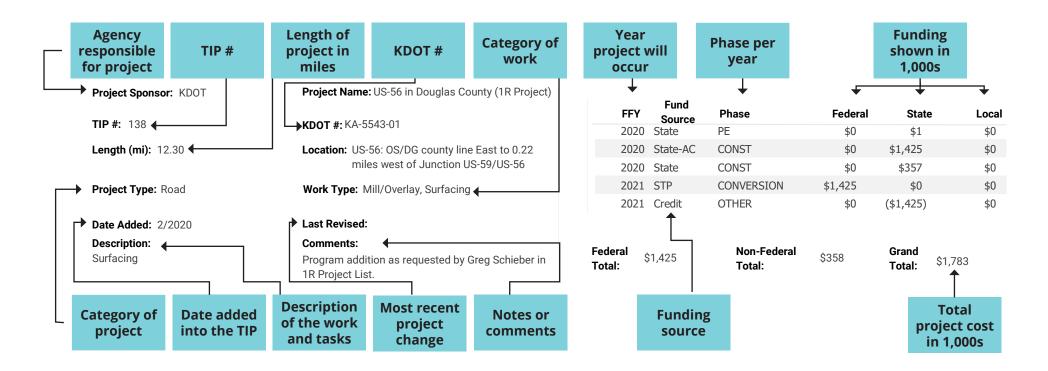
- Road

- Enhancement

- Interchange

- Intersection

## **Example Listing**



## **Decoding the TIP**

#### categories:

into categories:	Work Type: Classified in	to categories:
- Safe Routes To Schools (SRTS) - Safety - Traffic Signal - Transit/Paratransit	Access Management     Bridge Rehabilitation     Bridge Replacement     Capital     Geometric Improvement     Grading     Mill/Overlay	- Planning - Reconstruction - Redeck Bridge - Safety - Seeding - Signage - Signal
October 1 - September 30	- Operating - Other - Pedestrian & Bicycle	- Special Work - Surfacing - Vehicle Replacement

#### Seeding Signage

#### Surfacing

Federal Fiscal Year (FFY): October 1 - September 30 - Pedestrian & Bicycle

#### Fund Source:

- Community Development Block Grant (CDBG) - National Highway Performance Program (NHPP)

- Surface Transportation Program (STP)
- Highway Safety Improvement Program (HSIP) - Railway-Highway Crossings (set-aside from

#### HSIP) - Transportation Alternatives (TA) - includes

Safe Routes To School funding

- Urban Area Formula Grants (5307)
- Rural Area Formula Grants (5311)
- Enhanced Mobility of Seniors and Individuals
- with Disabilities (5310) - Bus and Bus Facilities (5339) Program
- State of Kansas Funding (State)

#### Local Government Funding (Local) - County

and City funds from local property and sales taxes

#### CONST - Construction - (includes PE - Preliminary Engineering ROW - Right of Way Construction Engineering) OPERATING - Transit UTIL - Utilities Operating

TIP #: Assigned based on project type by MPO:

100 - Roadway/Intersection 500 - Enhancement (Bike/Ped)

## 700 - Other - studies 400 – Transit/Paratransit

600 - Safety

200 – Bridges

300 - ITS



(Includes the Program of Projects for the Lawrence Transit System)

· · · · · ·		e Project Wakarusa Drive Extension F	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 106	KDOT #		2022	Local	PE	\$0	\$0	\$500
Length (mi): 2.00		Location: Clinton Parkway to N 1200 Rd	2022	Local - LAW	PE	\$0	\$0	\$166
Project Type: Road, Bridge		2		Local - LAW	ROW	\$0	\$0	\$167
		<b>Work Type:</b> Grading, Bridge, Surfacing	2022	Local - LAW	UTIL	\$0	\$0	\$167
Project Type. No	ad, blidge	work Type. Grading, bridge, Surfacing	2023	Local	PE	\$0	\$0	\$250
Date Added:	Last Revised:	Revison History:	2023	Local	ROW	\$0	\$0	\$150
10/2016	10/2021		2023	Local	UTIL	\$0	\$0	\$100
Description:		Comments:	2024	Local	CONST	\$0	\$0	\$750
New road construct Wakarusa Drive fro		Construction contingent on KDOT construction of K- 10 interchange at Wakarusa Drive. Changed TIP #	2024	Local - LAW	CONST	\$0	\$0	\$6,500
interchange to Route 458. Includes new		from 100 to 106 in $2/2017$ .	2025	Local	CONST	\$0	\$0	\$4,000
bridge over Wakar not finalized	usa River. *Alignment	Douglas County to pay 60% of design and construction costs & Lawrence to pay 40%.						

Federal \$0 Total: Non-Federal Total:

\$12,750

Grand Total: \$12,750



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence		<b>Project</b> Naismith Drive Reconstruction: 19th St. to <b>Name:</b> 23rd St.	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 117	KDOT #		2025		PE	\$0	\$0	\$400
Length (mi): 0.5	50	Location: 19th & Naismith to 23rd & Naismith	2026	Local	CONST	\$0	\$0	\$5,000
Project Type: R	Road	Work Type: Reconstruction, Pedestrian/Bicycle						
Date Added:	Last Revised: 6/2023	Revison History: FFY23A2						
Description:		Comments:						
Reconstruction of Naismith from 19th to 23rd st including new pavement, curb and gutter, storm sewer, sidewalks and bike facilities.		The street is in failing condition and needs to be reconstruction (PCI <50). Naismith is on the bike plan for future improvements.						

Federal	¢∩
Total:	\$0

Non-Federal Total:

\$5,400

Grand Total: \$5,400



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: KDOT		Project US-40/K-10 Interchange Improvement Name: (Diverging Diamond Interchange)	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 142	KDOT # KA-2841-02		2021	State	PE	\$0	\$310	\$0
Length (mi): 0.0	00	Location: US-40/K-10 Interchange Improvement		State-AC	PE	\$0	\$1,240	\$0
		(DDI) in Lawrence	2022	State	ROW	\$0	\$467	\$0
Broject Type	atorchando	Work Type: Reconstruction	2022	State	UTIL	\$0	\$93	\$0
Project Type: In	nterchange		2022	State-AC	UTIL	\$0	\$372	\$0
Date Added:	Last Revised:	Revison History: FFY23 A1	2023	State-AC	CONST	\$0	\$12,127	\$0
2/2021	4/2023		2023	State	CONST	\$0	\$3,030	\$0
Description:		Comments:	2023	Local	CONST	\$0	\$0	\$1,500
Construct a Dive	erging Diamond )I) includes bridge #088-	PE Phase will utilize AC of \$1,240 with conversion to NHPP in 2025. The UTIL Phase will utilize AC of	2025	Credit	OTHER	\$0	(\$13,739)	\$0
for the addition of sidewalk with barriers		\$93 with conversion to NHPP in 2025. The CONST	2025	NHPP	CONVERSION	\$13,739	\$0	\$0
for pedestrian pi bridge.	rotection down center of	Phase will utilize AC of \$12,127 with conversion to NHPP in 2025.						

Federal	\$13,739
Total:	φ13,739

Non-Federal \$5,400

Grand Total: \$19,139



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: KDOT		Project US-56 Reconstruction: US-56/US-59 Name: Junction east to 1600 Rd.	FFY	FFY	FFY	FFY	FFY	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 143	KDOT # KA-6015-01	Name: Junction easi to Tobo Rd.		State	PE	\$0	\$251	\$0					
Length (mi): 3.	75	Location: US-56 in Douglas County: Beginning at East Junction US-56/US-59 Ramps thence East to 1600 Road	2021	State-AC	PE	\$0	\$1,003	\$0					
			2028	Credit	OTHER	\$0	(\$1,003)	\$0					
Project Type: F	Pood	Work Type: Reconstruction	2028	NHPP	CONVERSION	\$1,003	\$0	\$0					
Floject Type.	Noau	work Type. Reconstruction											
Date Added: 2/2021	Last Revised: 4/2022	Revison History:											
Description:		Comments:											
roadway with 10	struction based on 44 ft. ) ft. shoulders. Add celeration lanes as	Project is authorized for PE ONLY. The estimated total project cost is \$15,486 which shall be used for planning purposes only. The PE Phase will utilize AC in the amount of \$1,003 with conversion to NHPP in 2026.											

Federal	\$1,003
Total:	φ1,005

Non-Federal Total:

\$251

Grand Total: \$1,254



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence		Project South Iowa St. Traffic Signal Improvement Name: Project	Fund FFY Source	FFV	FFV	FEV		Federal State	Local
<b>TIP #:</b> 144	KDOT # KA-6350-01	Name. Project	2023	Local	CONST	\$0	\$0	\$437	
Length (mi): 3.6	60	Location: 31st St. (Louisiana St. to Neider Road) and Iowa St./US59 (23rd St. to County Route 458)	2023	State	CONST	\$0	\$420	\$0	
Project Type:	rs	Work Type: Signal							
Date Added: 4/2021	Last Revised: 4/2023	Revison History: FFY23 A1							
St. and 23rd & la signals in the Sc include a variety improvements for	from 31st & Louisiana owa St. to existing traffic outh Iowa Area. Will of traffic signals or as many as 11 signals cameras, signal heads, inets).	Comments:							

Federal	¢O	Non-Federal	\$857	(
Total:	φU	Total:	900 <i>1</i>	•



\$0

Total:

\$2,150

Total:

(Includes the Program of Projects for the Lawrence Transit System)

					J /			
Project Sponsor: L	awrence	Project 11th St Indiana to Ohio; Louisiana - 11th Name: to 12th Reconstruction	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 146 KI	DOT #		2022		PE	\$0	\$0	\$150
Length (mi): 0.25		Location: 11th St Indiana St. to Ohio St. & Louisiana St 11th St. to 12th St.	2024	Local	CONST	\$0	\$0	\$2,000
Project Type: Road	l	Work Type: Reconstruction						
Date Added: 10/2021	Last Revised: 6/2023	Revison History: FFY23 A2						
<b>Description:</b> 11th St (Indiana to C concrete pavement, bike/ped improveme improvements at 11t	storm sewer, nts & sanitary sewer	<b>Comments:</b> Street is in failing condition (PCI = 27) and poor subgrade conditions require complete reconstruction. 11th Street is a collector street and on transit route.						
Louisiana St (11th to concrete pavement, bike/ped improveme	storm sewer,							
			Federal	\$0	Non-Federal	\$2 150	Grand	. 450

\$2,150

Total:



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponso	r: KDOT	Project K-33: Wellsville to U.S. 56 (N. 200th Road)	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 147	KDOT # KA-6550-01	Name: junction		State	PE	\$0	\$400	\$0
Length (mi): 2.0	1	Location: 50 feet north of 6th Street in Wellsville north to the K-33/U.S. 56 (N. 200th Road) junction.					1	1 -
Project Type: R	oad	Work Type: Reconstruction						
<b>Date Added:</b> 4/2022	Last Revised: 6/2022	Revison History:						
County. Discove the appropriate r reconstruction in	nprovements for the les resurfacing and	Comments:						

Federal	¢O	Non-Federal	\$400	Grand	
Total:	φU	Total:	<b>\$400</b>	Total:	\$400



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:	Lawrence	Project Bob Billings - Kasold to Wakarusa Dr. Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 148 K	(DOT #		2025		LOCAL	\$0	\$0	\$500
Length (mi): 1.50		Location: Bob Billings - Kasold to Wakarusa Dr.	2026	PE	LOCAL	\$0	\$0	\$500
				ROW	LOCAL	\$0	\$0	\$100
Project Type: Road	d	Work Type: Reconstruction						
Date Added: 10/2022	Last Revised:	Revison History:						
Description: Reconstruction of B Kasold to Wakarusa pavement, storm se sidewalks and bike	a including new ewer, waterline,	Comments:						

Federal	¢O	Non-Federal	\$1.100	Grand	
Total:	φU	Total:	φ1,100	Total:	\$1,100



(Includes the Program of Projects for the Lawrence Transit System)

Project Wakarusa Dr. Reconstruction - Harvard Rd Name: to 6th Street	FFV	Fund Source		Federal	State	Local
	2025	PE	LOCAL	\$0	\$0	\$30
Location: Wakarusa Dr. Reconstruction - Harvard Rd to 6th Street	2026	State	CONST	\$0	\$3,000	\$1
Work Type: Reconstruction						
Revison History: FFY23 A2						
Comments:						
Project will complete the reconstruction of the Wakarusa corridor from Clinton Parkway to 6th Street.						
	Name: to 6th Street Location: Wakarusa Dr. Reconstruction - Harvard Rd to 6th Street Work Type: Reconstruction Revison History: FFY23 A2 Comments: Project will complete the reconstruction of the Wakarusa corridor from Clinton Parkway to 6th	Name: to 6th Street       FFY         Location: Wakarusa Dr. Reconstruction - Harvard Rd to 6th Street       2025         Work Type: Reconstruction       2026         Work Type: Reconstruction       2026         Comments:       Project will complete the reconstruction of the Wakarusa corridor from Clinton Parkway to 6th	Name: to 6th Street       FFY Source         Location: Wakarusa Dr. Reconstruction - Harvard Rd to 6th Street       2025 PE         Work Type: Reconstruction       2026 State         Work Type: Reconstruction	Name: to 6th Street       FFY Source         Location: Wakarusa Dr. Reconstruction - Harvard Rd to 6th Street       2025 PE       LOCAL         Work Type: Reconstruction       2026 State       CONST         Revison History: FFY23 A2       Comments:       Project will complete the reconstruction of the Wakarusa corridor from Clinton Parkway to 6th	Name: to 6th Street       FFY Source         Location: Wakarusa Dr. Reconstruction - Harvard Rd to 6th Street       2025 PE       LOCAL       \$0         Work Type: Reconstruction       2026 State       CONST       \$0         Revison History: FFY23 A2       FFY23 A2       State       Comments:         Project will complete the reconstruction of the Wakarusa corridor from Clinton Parkway to 6th       State       State       State	Name: to 6th Street       FFY       Source         2025       PE       LOCAL       \$0       \$0         2026       State       CONST       \$0       \$3,000         Work Type: Reconstruction       Revison History: FFY23 A2       FFY23 A2       State       Comments:         Project will complete the reconstruction of the Wakarusa corridor from Clinton Parkway to 6th       State       State       State       State

Federal	\$0	
Total:	φU	

Non-Federal Total:

\$3,300

Grand \$3,300 Total:



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence	Project Wakarusa Dr. Reconstruction: Research Name: Pkwy to 23rd St	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 214 <b>KDOT #</b>	, , ,	2021		PE	\$0	\$0	\$400
Length (mi): 1.47	Location:Wakarusa: Research Pkwy to 23rd St	2023	Local	CONST	\$0	\$0	\$7,600
Project Type: Road	Work Type: Reconstruction						
Date Added:         Last Revised:           10/2016         10/2021	Revison History:						
Description:	Comments:						
Reconstruction of street will include subgrade treatment, surfacing, storm sewer, geometric improvements, and multimodal facilities.	Extend project limits from 18th St to 23rd St.						

Federal	\$0	
Total:	φU	

Non-Federal Total:

\$8,000

Grand Total: \$8,000



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: D	ouglas County	Project Rte 458/1055 Improvements: E 1500 thru Name: E 1600	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 219 KD	OOT #		2020		PE	\$0	\$0	\$2
Length (mi): 1.60		Location: E1500 to E1600 & N940 to N1000	2021	Local	PE	\$0	\$0	\$32
			2021	Local	ROW	\$0	\$0	\$125
Project Turney Dood			2021	Local	UTIL	\$0	\$0	\$250
Project Type: Road		Work Type: Grading, Surfacing	2022	Local	CONST	\$0	\$0	\$3,200
Date Added: 8/2015	Last Revised: 8/2021	Revison History:						
Description: Construct paved sho narrow bridges and c roadside slope; and i intersections.	ulvert; flatten	Comments:						

Federal	\$0	Non-Federal	\$3.609
Total:	φΟ	Total:	<i>ф</i> 3,009

Grand Total: \$3,609



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:	Lawrence	Project Queens Road: 6th to North City Limits Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 230 K	(DOT #	-	2015		ROW	\$0	\$0	\$600
Length (mi): 0.75		Location: 6th St to North City Limits	2016	Local	PE	\$0	\$0	\$200
			2022	Local	CONST	\$0	\$0	\$6,900
Project Type: Roa	d	Work Type: Reconstruction	2023	Local	CONST	\$0	\$0	\$4,900
<b>Date Added:</b> 8/2015	Last Revised: 10/2021	Revison History:						
Description:		Comments:						
Construct Queens Road, roundabout at Overland Dr & Queens Rd, construct sidewalk & bike lanes.		PE/ROW are each estimated at 10% of Construction Costs.						
		Updated project description to include roundabout at Overland/Queens.						

Federal	\$0
Total:	φU

Non-Federal Total:

\$12,600

Grand Total: \$12,600



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponso		Project 23rd Street Reconstruction: Haskell to East Name: City Limits	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 234	KDOT # KA-4473-01		2020	Local	PE	\$0	\$0	\$500
Length (mi): 2.0	)1	Location: Haskell Ave to East City Limits	2022	Local	CONST	\$0	\$0	\$2,250
			2022	State	CONST	\$0	\$4,900	\$0
Project Type: R	load	Work Type: Reconstruction	2023	Local	CONST	\$0	\$0	\$4,100
<b>Date Added:</b> 8/2015	Last Revised: 4/2022	Revison History:						
pavement, storm	of street including a sewer, geometric nd multimodal facilities.	<b>Comments:</b> PE/ROW are each estimated at 10% of Construction Costs. Project is part of the 23rd St KDOT/City turn back agreement. This agreement, including final project(s) cost share, has not been finalized to date.						

Federal	\$0
Total:	φU

Non-Federal Total:

\$11,750

Grand Total: \$11,750



(Includes the Program of Projects for the Lawrence Transit System)

Project Spons	or: KDOT	Project SLT/K-10 West Leg in Douglas County		Fund	Phase	Federal	State	Local
Project Sponsor: KDOT		Name:	FFY	Source	Thase	rederai	Otale	Local
TIP #: 236	KDOT # KA-3634-02		2021	State	PE	\$0	\$840	\$0
Length (mi): 1.3	20	Location: I-70/K10 Junction South to 3500 ft N of K-	2021	State-AC	PE	\$0	\$3,360	\$0
		10/US-40 Junction	2022	State	ROW	\$0	\$2,000	\$0
Project Type: Road/Interchange		Work Type: Interchange/Reconstruction	2024	State	UTIL	\$0	\$400	\$0
			2024	State-AC	UTIL	\$0	\$1,600	\$0
Date Added:	Last Revised:	Revison History: FFY23 A3	2029	NHPP	CONVERSION	\$4,960	\$0	\$0
1/2016	8/2023		2029	Credit	OTHER	\$0	(\$4,960)	\$0
Description:		Comments:						
4-Lane Freeway reconstruction of I-70(KTA). Inclu #201 (New), #20	the existing 2-lanes for a y section. This will include of existing interchange at ides Bridges #200 (New), 02 (New), #203 (Replace (New), #205 (New), #086	PE uses \$3,360K of AC & UTIL uses \$1,600 of AC with conversion to NHPP in 2029. The total project cost, including all work phases, is estimated at \$106,179. This estimate should be used for planning purposes only. Authorized for PE, ROW, UTIL only.						

Federal	\$4,960
Total:	φ4,300

Non-Federal Total:

\$3,240

Grand Total: \$8,200



replacing/repairing bridges.

## Lawrence-Douglas County MPO FFY 2023 - 2026 Transportation Improvement Program Projects (Costs in 1,000s)

(Includes the Program of Projects for the Lawrence Transit System)

Project Spons		Project SLT/K-10 West Leg in Douglas County Name:	FFY	Fund Source	Phase	Federa	I State	Local
TIP #: 237	KDOT # KA-3634-03		2021	State	PE	\$0	\$2,600	\$0
Length (mi): 7.	00	Location: 3500 ft N of K-10/US-40 Junction, to K-10	2021	State-AC	PE	\$0	\$10,400	\$0
		US-59/Iowa St Junction	2023	State	ROW	\$0	\$4,000	\$0
	Dood/Interchange		2024	State	UTIL	\$0	\$3,200	\$0
Project Type: Road/Interchange		Work Type: Interchange/Reconstruction	2024	State-AC	UTIL	\$0	\$12,800	\$0
Date Added:	Last Revised:	Revison History: FFY23 A3	2024	State	CONST	\$0	\$34,661	\$0
1/2016	8/2023		2024	State-AC	CONST	\$0	\$138,643	\$0
Description:		Comments:	2028	Credit	OTHER	\$0	(\$161,843)	\$0
Lane Freeway s interchanges at Billings Pkwy, C St.) A new inter	existing 2-lanes for a 4- section. Existing US-40 (6th St.), Bob Clinton Pkwy, US-59 (Iowa change for the intersection, including	Total est. cost of \$206,304. Revised cost estimate to reflect the March bi-annual estimates. Post-Field Check ROW activities adjusted to reflect requested dates from ROW. Letting date of 6/19/2024 remains the same.	2028	NHPP	CONVERSION	\$161,843	\$0	\$0

Federal	\$161,843
Total:	φ101,045

Non-Federal \$44,461 Total:

Grand Total: \$206,304



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: KDOT		Project US-56 Improvements: Eisenhower St to 1st Name: St	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 243	KDOT # KA-4365-01		2021	Local	CONST	\$0	\$0	\$89
Length (mi): 0.3	0	Location: Eisenhower St to 1st St	2021	State	CONST	\$0	\$1,675	\$0
Project Type: R	oad	Work Type: Other/Reconstruction						
Date Added:	Last Revised:	Revison History:						
7/2016	4/2021							
Description:		Comments:						
	US-56 - Realign construct 3 lane US-56							
in Baldwin City.								

Federal	¢O	Non-Federal	\$1.764	Grand
Total:	φU	Total:	φ1,704	Total:

\$1,764



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:	Douglas County	Project Bridge 0964-1000 replacement Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 248	(DOT #	Name.		Local	PE	\$0	\$0	\$110
Length (mi): 0.15		Location: E 1000 Road 0.4 mi. South of Route 458 202	2021	Local	ROW	\$0	\$0	\$15
			2022	Local	UTIL	\$0	\$0	\$75
Project Type: Brid	ge	Work Type: Bridge Replacement, Grading	2022	Local	CONST	\$0	\$0	\$1,600
<b>Date Added:</b> 10/2018	Last Revised: 8/2021	Revison History:						
<b>Description:</b> Replace load poste bridge	d, fracture critical	<b>Comments:</b> Funding amounts assume all Local funding.						

Federal	\$0	No		
Total:	<b>4</b> 0	To		

on-Federal \$1,800

Grand Total: \$1,800



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: KDOT		Project Repair bridge #071 on K-10 in Douglas	FFY	Fund	Phase	Federal	State	Local
<b>TIP #:</b> 249	KDOT # KA-5683-01	Name: County		Source State	PE	\$0	\$46	\$0
Length (mi): 0.0	0	Location: K-10; Bridge #071 over the Wakarusa	2020	State-AC	PE	\$0	\$183	\$0
	River located 7.05 miles east of the K- 10/U.S. 59 junction in Douglas County		2021	State	CONST	\$0	\$311	\$0
Brainat Typas B	ridao	Work Type: Bridge Rehabilitation	2021	State-AC	CONST	\$0	\$1,244	\$0
Project Type: B	lidge		2022	NHPP	CONVERSION	\$1,427	\$0	\$0
Date Added:	Last Revised:	Revison History:	2022	Credit	OTHER	\$0	(\$1,427)	\$0
8/2020	8/2021							
Description:		Comments:						
	tion, replace joints, ner overlay, pier repair ng	The PE Phase will utilize AC in the amount of \$183 K with conversion to NHPP in 2022. The CONST Phase will utilize AC in the amount of \$1,363 K with conversion to NHPP in 2022.						

Federal	\$1,427
Total:	φ1,427

Non-Federal Total:

\$357

Grand Total: \$1,784



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:	Lawrence	Project 6th and Massachusetts St Traffic Signal Name: Improvement Project	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 300 K	DOT #	Name. Improvement roject	2022	Local	CONST	\$0	\$0	\$100
Length (mi): 0.12		Location: 3 signals along 6th: Massachusetts St, Vermont St, and Kentucky St	2023	Local	CONST	\$0	\$0	\$600
Project Type: ITS		Work Type: Signal						
Date Added: 8/2021	Last Revised:	Revison History:						
Description: Project will replace t (Massachusetts St, Y Kentucky St). Upgra Accessible Pedestria Detectors.	Vermont St, des will include	Comments:						

Federal	¢۵	Non-Federal	\$700	Grand	
Total:	φU	Total:	φ/00	Total:	\$700



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: In		Project Independence Inc., FTA 5311 Operating & Name: Capital	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 401 KC	DOT #		2021	Local	OPERATING	\$0	\$0	\$50
Length (mi): 0.00		Location:Lawrence	2021	State	OPERATING	\$0	\$33	\$0
		202	2021	5311	OPERATING	\$83	\$0	\$0
Drainat Tyrna, Trana	it/Dorotropoit	Work Turney Operating/Capital 2021	2021	Local	CAPITAL	\$0	\$0	\$8
Project Type: Transit/Paratransit		Work Type: Operating/Capital	2021	5311	CAPITAL	\$33	\$0	\$0
Date Added: 10/2014	Last Revised: 6/2020	Revison History:						
Description:		Comments:						
Operating and Capital		2019 – 5311 Admin- \$32, Local Admin- \$8; 2020 – 5311 Admin- \$31, Local Admin- \$8; 2021 – 5311 Admin- \$41, Local Admin- \$10.						
		Purchase Ramp Van in FY2020 & Ramp Minivan in FY2021.						

Federal	¢116
Total:	\$116

Non-Federal Total:

\$91

Grand Total: \$207



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponso	Sponsor: Lawrence Transit 403 <b>Project</b> Lawrence Transit Capital and Operating Name: Assistance	FFY	Fund Source	Phase	Federal	State	Local	
TIP #: 403	KDOT # PT-0701		2019	State-PT	CAPITAL	\$0	\$500	\$0
Length (mi): 0.0	00	Location: Lawrence	2019	State-PT	OPERATING	\$0	\$759	\$0
			2020	State-PT	CAPITAL	\$0	\$1,000	\$0
Due is at <b>T</b> amas T			2020	State-PT	OPERATING	\$0	\$297	\$0
Project Type: Transit/Paratransit		Work Type: Special Work	2021	State-PT	CAPITAL	\$0	\$600	\$C
Date Added: Last Revised:		Revison History:	2021	State-PT	OPERATING	\$0	\$721	\$0
10/2014	6/2022	-	2022	State-PT	CAPITAL	\$0	\$500	\$(
Description:		Comments:	2022	State-PT	OPERATING	\$0	\$788	\$0
	Transportation Program.	State CTP/IKE Legacy	2023	State-PT	CAPITAL	\$0	\$0	\$0
Purchase of replacement cutaway vehicles.			2023	State-PT	OPERATING	\$0	\$1,155	\$0
			2024	State-PT	CAPITAL	\$0	\$500	\$0
			2024	State-PT	OPERATING	\$0	\$655	\$0
			2025	State-PT	CAPITAL	\$0	\$500	\$(

Federal Total:	\$0	Non-Federal Total:	\$9,785	Grand Total:

OPERATING

OPERATING

CAPITAL

2025 State-PT 2026 State-PT

2026 State-PT

\$0

\$0

\$0

\$655

\$500

\$655

\$0

\$0

\$0

\$9,785



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: La	wrence Transit	Project Lawrence Transit Central Station Name:	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 410 <b>KD</b>	OT #	itano.	2021	Local	PE	\$0	\$0	\$137
Length (mi): 0.00		Location: Lawrence 202	2022	Local	PE	\$0	\$0	\$855
			2022	Local	CONST	\$0	\$0	\$3,208
Drainet Turney Transit	Deretropoit	Work Tymes, Consitel	2023	Local	CONST	\$0	\$0	\$5,800
Project Type: Transit/Paratransit		Work Type: Capital	2024	Local	CONST	\$0	\$0	\$406
Date Added:	Last Revised:	Revison History:	2024	State	CONST	\$0	\$1,624	\$0
7/2016	6/2022							
Description: Transit Facility will hav local and regional tran amenities for transit p operators, and bicycle amenities.	nsit services, assengers and	Comments:						

Federal	\$0	Non-Federal	\$12.030
Total:	φU	Total:	φ12,030

Grand Total: \$12,030



2026 Local

2026 5307

(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:	Lawrence Transit	Project Lawrence Transit Operating Funds	FFY	Fund	Phase	Federal	State	Local
TIP #: 412	<b>(DOT #</b> 5307 FTA	Name:	2019	Source	OPERATING	\$0	\$0	\$1,860
Length (mi): 0.00		Location: Lawrence	2019		OPERATING	\$2,447	\$0	\$0
			2021	Local	OPERATING	\$0	\$0	\$2,533
Project Type: Transit/Paratransit		Work Type: Operating	2021	5307	OPERATING	\$2,533	\$0	\$0
			2022	Local	OPERATING	\$0	\$0	\$3,808
Date Added:	Last Revised:	Revison History:	2022	5307	OPERATING	\$3,808	\$0	\$0
10/2014	5/5/2022		2023	Local	OPERATING	\$0	\$0	\$4,188
Description:		Comments:	2023	5307	OPERATING	\$4,188	\$0	\$0
Operating, Preventative Maintenance, and Program Adminstration activities.		Federal Transit 5307 Funds. 2021-2022 amounts	2024	Local	OPERATING		\$0	\$4,606
		are projected.	2024	5307	OPERATING	\$4,606	\$0	\$0
			2025	Local	OPERATING	\$0	\$0	\$5,067
			2025	5307	OPERATING	\$5,067	\$0	\$0

Federal	\$28.223	Non-Federal	\$27.636
Total:	₽Z0,ZZ3	Total:	φ27,030

OPERATING

OPERATING

Grand Total: \$55,859

\$0

\$0

\$0

\$5,574

\$5,574

\$0



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence Transit	Project Lawrence Transit Electric Buses Phase 1 Name:	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 416 <b>KDOT #</b>	Nume.	2021		PE	\$367	\$0	\$0
Length (mi): 0.00	Location:Lawrence	2022	5339	CAPITAL	\$3,389	\$0	\$0
		2022	Local	CAPITAL	\$0	\$0	\$2,234
Project Type: Transit/Paratransit	Work Type: Vehicle Replacement						
Date Added:         Last Revised:           8/2020         6/2022	Revison History:						
Description:	Comments:						
Procurement of five battery electric buses to replace five diesel powered buses, associated charging infrastructure, and project management	FTA Low-No grant for \$3.75 million awarded in June 2020.						

Federal	\$3,756	Non-Federal
Total:	φ3,730	Total:

\$2,234

Grand \$5,990 Total:



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponso	r: Lawrence Transit	Project CARES Act Operating Funds Name:	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 417	KDOT #	Nume.	2021		OPERATING	\$1,921	\$0	\$0
Length (mi): 0.0	0	Location:Lawrence	2022	5307	OPERATING	\$3,737	\$0	\$0
Project Type: T	ansit/Paratransit	Work Type: Operating						
Date Added: 10/2020	Last Revised: 6/2021	Revison History:						
Lawrence Transi uses as 5307 fun revenue and cha	s were apportioned to t, eligible for similar ds in response to lost llenges due to COVID- funding will be used for	<b>Comments:</b> Linked with CARES Act Capital Assistance project (#418). Project requires no local match.						

Federal	\$5,658
Total:	φ0,000

Non-Federal Total:

\$0



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:		<b>Project</b> American Rescue Plan (ARP) Operating <b>Name:</b> Assistance	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 419 KI	DOT #		2022	5307	OPERATING	\$1,524	\$0	\$0
Length (mi): 0.00		Location: City of Lawrence	2023	5307	OPERATING	\$2,988	\$0	\$0
Project Type: Trans Date Added: 8/2021	sit/Paratransit Last Revised:	Work Type: Operating Revison History:						
<b>Description:</b> American Rescue PI (ARP) funds were ap Lawrence Transit, el uses as 5307 funds revenues and challe COVID-19.	portioned to igible for similar in response to lost	<b>Comments:</b> In Lawrence, these funds will be used for salaries and operating costs as eligible under the 5307 program. No local match required.						

Federal	¢1 510
Total:	\$4,512

Non-Federal Total:

\$0



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence Transit	Project Lawrence Transit Electric Buses Phase II Name:	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 420 <b>KDOT #</b>	Name.	2022		PE	\$192	\$0	\$0
Length (mi): 0.00	Location: City of Lawrence	2022	Local	PE	\$0	\$0	\$48
		2023	5339	CAPITAL	\$1,624	\$0	\$0
Project Type: Transit/Paratransit	Work Type: Vehicle Replacement	2023	Local	CAPITAL	\$0	\$0	\$619
Date Added:Last Revised:8/2021	Revison History:						
<b>Description:</b> Procurement of two battery electric buses to replace two diesel powered buses, associated charging infrastructure, and project management.	<b>Comments:</b> FTA Low-No grant for \$1.8 million awarded in June 2021.						

Federal	\$1,816	Non-Federal
Total:	φ1,010	Total:

\$667

Grand \$2,483 Total:



(Includes the Program of Projects for the Lawrence Transit System)

Federal	\$120	Non-Federal	\$30	Grand
Total:	φ12U	Total:	<b>\$</b> 30	<b>Total:</b> \$150



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:		<b>Project</b> Equitable and Accessible Bus Stop <b>Name:</b> Amenities	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 422 KD	OT #		2023	Local	CONST	\$0	\$0	\$31
Length (mi): 0.00		Location: Lawrence	2023	Federal	CONST	\$122	\$0	\$0
Project Type: Transi Date Added: 6/2022	it/Paratransit Last Revised:	Work Type: Capital Revison History:						
Description: This project will impro Environmental Justice will be improved with boarding pads and so visibility and safety, a sites will gain shelters racks, and trash cans	e zones. 16 sites accessible blar lighting for ind 9 additional s, benches, bike	Comments:						

Federal	\$122
Total:	φιζζ

Non-Federal Total:

\$31



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence Transit		Project AIC - Multimodal Transfer Facility Elements Name:	FFY	Fund Y Source	Phase	Federal	State	Local
<b>TIP #:</b> 423	KDOT #		2023		CAP	\$0	\$0	\$406
Length (mi): 0.00	)	Location:Lawrence	2023	State	CONST	\$0	\$1,624	\$0
Project Type: Tra Date Added: 6/2022	ansit/Paratransit Last Revised:	Work Type: Capital Revison History:						
infrastructure and signage at both th Downtown sites, a elements such as	des bicycle parking real-time bus arrival le Bob Billings and as well as Downtown concrete, canopies, and a restroom facility.	<b>Comments:</b> Access, Innovation, and Collaboration (AIC) Program						

Federal	\$0	Non-
Total:	<b>Ф</b> О	Tota

lon-Federal \$2,030



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence Transit	<b>Project</b> AIC - Bus Technology, Accessibility, and <b>Name:</b> Branding Enhancements	FFY	Fund Source	Phase	Federal	State	Local
TIP #:         424         KDOT #		2023	Local	CAP	\$0	\$0	\$169
Length (mi): 0.00	Location: Lawrence	2023	Federal	CAP	\$677	\$0	\$0
Project Type: Transit/Paratransit Date Added: Last Revised: 6/2022 Description: Project includes real-time bus arrival information, automated vehicle annunciators, exterior rear destination signs on buses, interior digital signs on buses, flip-seat retrofits, and bus decals & wraps	Work Type: Other Revison History: Comments: Access, Innovation, and Collaboration (AIC) Program						

Federal	\$677	Non-Federal	\$169
Total:	φ077	Total:	φ109



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence Transit	Project Electric Buses Phase III Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #:         425         KDOT #	-	2022		PE	\$0	\$0	\$8
Length (mi): 0.00	Location:Lawrence	2022	Federal	PE	\$31	\$0	\$0
		2023	Local	CONST	\$0	\$0	\$220
Project Type: Transit/Paratransit	Work Type: Vehicle Replacement	2023	Local	PE	\$0	\$0	\$40
Froject Type. Transit/Faratransit		2023	Federal	PE	\$161	\$0	\$0
Date Added: Last Revised:	Revison History:	2024	Local	CAP	\$0	\$0	\$501
6/2022		2024 Local	Local	PE	\$0	\$0	\$40
Description:	Comments:	2024	Federal	PE	\$160	\$0	\$0
Procurement of four battery electric buses to replace two diesel powered	FTA Low-No grant for \$3.3 million awarded in August 2022	2024	Local	CONST	\$0	\$0	\$330
buses, two gasoline powered buses,		2024	Federal	CAP	\$2,824	\$0	\$0
associated charging infrastructure, and project management.		2025	Local	PE	\$0	\$0	\$26

Federal	\$3.176	Non-Federal	\$1.165
Total:	<b>Ъ</b> З, 170	Total:	φ1,100



(Includes the Program of Projects for the Lawrence Transit System)

Federal	\$124	Non-Federal	\$31	Grand	
Total:	φ124	Total:	φST	Total: <sup>\$</sup>	155



year.

#### Lawrence-Douglas County MPO FFY 2023 - 2026 Transportation Improvement Program Projects (Costs in 1,000s)

(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:	Lawrence	Project Various Lawrence Bike/Sidewalk/ADA Name: Ramps Projects	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 507	(DOT #	Name. Rampo riojecio	2023		CONST	\$300	\$0	\$0
Length (mi): 0.00		Location: Lawrence	2023	Local	CONST	\$0	\$0	\$675
			2023	Local	CONST	\$0	\$0	\$325
Draiget Type, Ded	lastrian & Piovala	Work Type: Pedestrian & Bicycle Work	2024	CDBG	CONST	\$300	\$0	\$0
Project Type: Ped	estilari & Dicycle		2024	Local	CONST	\$0	\$0	\$675
Date Added:	Last Revised:	Revison History:	2024	Local	CONST	\$0	\$0	\$325
10/2018	10/2020		2025	CDGB	Const	\$300	\$0	\$0
Description:		Comments:	2025	Local	CONST	\$0	\$0	\$675
Pedestrian, Bicycle	•	The CDBG is an estimate of anticipated funding.	2025	Local	CONST	\$0	\$0	\$325
projects throughout Lawrence including in EJ areas. Community Development Block Grant (CDBG) is a HUD program administered by the Lawrence		CONST funding may be used for additional work tasks. Local funding for ADA ramps at \$325k/yr &	2026	CDGB	Const	\$300	\$0	\$0
		Bike/Ped Program at \$675k/yr. Local funding	2026	Local	CONST	\$0	\$0	\$675
,	ices Dept. The City is	matching TA project specific funding will be listed separately.	2026	Local	CONST	\$0	\$0	\$325
allocated a % of CI	DBG funding each	· •						

Federal	\$1,200
Total:	φ1,200

Non-Federal \$4,000



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor	r: Baldwin City	Project West Baldwin Pedestrian/Bike Connectivity Name: Project	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 509	<b>KDOT #</b> TE-0472-02	Name. Floject		Local	PE	\$0	\$0	\$149
Length (mi): 0.7	8	Location: Intersection of 8th Street/Elm St	2021	Local	UTIL	\$0	\$0	\$10
		proceeding westerly to USD 348 property (+/- one-half mile) and East side of	2022	Local	CONST	\$0	\$0	\$253
Project Type: ⊺	ransportation Alternative	Work Type: Pedestrian & Bicycle Work	2022	ТА	CONST	\$1,013	\$0	\$0
<b>Date Added:</b> 4/2019	Last Revised: 8/2022	Revison History:						
Description:		Comments:						
of Elm St from 8t Midland Railway existing sidewalk with bulb out at 8	alk along the south side h St across existing Crossing connecting to on USD 348 property th St. Construct shared Im St from Santa Fe igh St	ADA accessible sidewalks and shared use path to provide connectivity for community at-large, and more specifically, to provide elementary students with a safe route. KDOT TA Project; FY20; \$1,012,960 (max.)						

Federal	\$1,013
Total:	φ1,013

Non-Federal \$412



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponse	or: Baldwin City	Project Maple Leaf Trail - Phase 2 Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 510	KDOT # TE-0472-03	Name.	2024		CONST	\$732	\$0	\$0
Length (mi): 0.	60	<b>Location:</b> Santa Fe Depot on High Street to Southwest City Limits of Baldwin City						1 -
Project Type:	Transportation Alternative	Work Type: Pedestrian & Bicycle Work						
<b>Date Added:</b> 4/2023	Last Revised: 4/2023	Revison History: FFY23 A1						
	a 10' trail in southwest ktending southwest from ta Fe Depot	<b>Comments:</b> KDOT TA funded and is the 2nd phase of creation of the Maple Leaf Trail. The ultimate goal is to extend the trail all the way to Ottawa to interconnect with the Prairie Spirit Rail Trail and the Flint Hills Nature Trail.						

Federal	\$732
Total:	φ1 JZ

Non-Federal Total:

\$0



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence		Project Lawrence Safe Routes to School Phase 2 Name: (2021)	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 513	KDOT # U-2372-01		2020		PE	\$0	\$0	\$50
Length (mi): 0.9	0	Location: Various sidewalk along 6 streets & 1	2021	ТА	CONST	\$500	\$0	\$0
		crossing improvement	2022	Local	CONST	\$0	\$0	\$125
Project Type: ⊤	ransportation Alternative	Work Type: Pedestrian & Bicycle Work, Safety						
<b>Date Added:</b> 6/2020	Last Revised: 11/2021	Revison History:						
Description:		Comments:						
Driveway and sid	Routes to School.	This project will give a space for children to walk and/or bike to school along designated safe routes. The SRTS funding is an 80/20 (KDOT/City) cost share with KDOT contributing a max of \$500,000.						

Federal	\$500
Total:	\$300

Non-Federal \$175



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence	Project Naismith Drive Mobility Enhancement Name:	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 514 <b>KDOT #</b> TBD	Name.	2022		PE	\$0	\$36	\$0
Length (mi): 0.50	Location: Naismith Drive from 23rd St. to 19th St. (east side)	2022	Local	PE	\$0	\$0	\$4
		2022	State	CONST	\$0	\$290	\$0
Project Type: Pedestrian/Bicycle	Work Type: Pedestrian & Bicycle Work, Other	2022	Local	CONST	\$0	\$0	\$82
Project Type: redestrian/Dicycle	work Type: Pedestnan & Dicycle Work, Other						
Date Added:Last Revised:10/2020	Revison History:						
<b>Description:</b> Construct sidewalk on east side of Naismith Dr. with focus on Transit connection and improvements.	<b>Comments:</b> 2020 Access, Innovation, and Collaboration Grant Award						

Federal	\$0	Non-F
Total:	<b>Ф</b> О	Total:

lon-Federal \$412



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponso	or: Lecompton	Project Lecompton Sidewalk Loop Project: Historic Name: Loop & Grand Loop Connectivity	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 515	KDOT # TE-0500-01	Name. Loop & Grand Loop Connectivity	2023		PE	\$0	\$0	\$114
Length (mi): 1.75		Location: Connecting 2nd, 3rd, Elmore,	2023	Local	CONST	\$0	\$0	\$300
		Halderman, 7th, and Boone Streets	2023	ТА	CONST	\$727	\$0	\$0
Project Type: Transportation Alternative		Nork Type:         Pedestrian & Bicycle Work         2023 CRP         CONST         \$468					\$0	\$0
		WORK Type. Tedestilan & Dicycle Work						
Date Added:	Last Revised:	Revison History: FFY23 A3						
4/2021	8/2023							
Description:		Comments:						
Construct 5' wide concrete sidewalk and install sharrows.		KDOT TA Project; FY23; \$727,200						

Federal	\$1.195	Non-Federal	\$414
Total:	φ1,195	Total:	φ414



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponso	r: Lawrence	Project Lawrence Loop Shared Use Path: Michigan Name: St. to Sandra Shaw Park	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 516	KDOT # TE-0499-01			Local	PE	\$0	\$0	\$150
Length (mi): 0.4	7	Location: Begins at Michigan St., 1/2 mile north of	2022	Local	ROW	\$0	\$0	\$525
		W 2nd St., ends at Sandra Shaw Park	2023	Local	CONST	\$0	\$0	\$193
Project Type: Transportation Alternative		Work Type: Pedestrian & Bicycle Work	2023	ТА	CONST	\$773	\$0	\$0
Date Added: 4/2021	Last Revised: 8/2022	Revison History:						
Description: Design and cons use path.	truction of 10' shared	<b>Comments:</b> KDOT TA project, FY23:80% construction match						

Federal	\$773
Total:	φ// 3

Non-Federal Total:

\$868



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Baldwin City		Project Baldwin City Sidewalk Gap Project Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 517 KDO	<b>T #</b> TE-0496-01	Nume.	2022	Local	PE	\$0	\$0	\$106
Length (mi): 1.10		Location: 11th St., Hwy 56 to High St.; High St., 4th	2022	Local	CONST	\$0	\$0	\$155
		St. to 2nd St; 2nd St., Hwy 56 to Fremont St; & Quayle St., Middle School to 6th St.	2022	ТА	CONST	\$620	\$0	\$0
Project Type: Transpo	rtation Alternative	Work Type: Pedestrian & Bicycle Work						
<b>Date Added:</b> 4/2021	Last Revised: 8/2021	Revison History:						
Description: Construct 5' wide sidew sidewalk segments to fi sidewalk gaps identified Routes to School netwo	ill in missing d on the Safe	Comments: KDOT TA Project; FY22; \$620,000 (max)						

Federal	\$620	Non-Federal	\$261
Total:	<b>Φ</b> 020	Total:	φ201



(Includes the Program of Projects for the Lawrence Transit System)

<i>.</i> .		Project Eudora 10th St. Sidewalk Expansion Name: FFY	Fund Source	Phase	Federal	State	Local		
TIP #: 518	KDOT # TE-0497-01	Name.		Local	PE	\$0	\$0	\$135	
Length (mi): 0.6	51		2022	Local	UTIL	\$0	\$0	\$250	
	Peach St. & 10th St.	2022	Local	CONST	\$0	\$0	\$356		
Drainat Turna, T	ropoportation Altornativo	Work Type: Pedestrian & Bicycle Work	2022	ТА	CONST	\$1,781	\$0	\$0	
Project Type: Transportation Alternative		Work Type. I edesinan a bicycle Work							
<b>Date Added:</b> 4/2021	Last Revised: 8/2022	Revison History:							
Description:		Comments:							
existing detoriate new sidewalk. A reinforced concr 10th st. to impro	e sidewalks to replace ed sidewalk or install lso will expand the ete box culvert under ve stormwater/flood nis sidewalk is in the School Plan.	KDOT TA Project; FY22; \$1,111,074 (max)							

Federal	\$1.781	Non-Federal	\$741
Total:	φ1,701	Total:	φ/4Ι



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: City of Lawrence		Project 2024 Safe Routes to School FFY	Fund Source		Federal	State	Local	
TIP #: 519	KDOT # TE-0523-01	Name.	2023		PE	\$0	\$0	\$100
Length (mi): 0.0	0	Location: Ousdahl Road from 26th to 19th & 25th from Cedarwood to Ousdahl	2023	Local	ROW	\$0	\$0	\$15
			2024	ТА	CONST	\$955	\$0	\$0
Project Type: Pedestrian/Bicycle		Work Type: Transportation Alternatives	2024	Local	CONST	\$0	\$0	\$423
<b>Date Added:</b> 4/2023	Last Revised: 4/2023	Revison History: FFY23 A1						
		Comments:						

Federal	\$955	
Total:	<b>4900</b>	

Non-Federal Total:

\$538



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence		Project Lawrence Loop - Iowa Crossing Name:	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 520	KDOT #		2023	Local	PE	\$0	\$0	\$248
Length (mi): 0.03		Location: Iowa Street at K10	2024	Local	CONST	\$0	\$0	\$330
			2024	State	CONST	\$0	\$1,320	\$0
Project Type: Peo	destrian/Bicycle	Work Type: Pedestrian & Bicycle Work						
Date Added: 10/2022	,							
the Lawrence Loop	lowa Street (US	<b>Comments:</b> This project is the third highest scoring bike project in the Non-motorized Projects Prioritization Policy and would significantly improve safety at this highly utilized trail crossing.						

Federal	\$0	
Total:	φU	

Non-Federal \$1,898 Total:

Grand Total: \$1,898

Total:



(Includes the Program of Projects for the Lawrence Transit System)

TIP #: 521KDOT #Length (mi): 0.50Location: Lawrence Loop Trail - Kaw River -7th street to Constant Park2023LocalOTHER\$0\$0\$2752024LocalPE\$0\$0\$5302025LocalCONST\$0\$0\$6600Project Type: Pedestrian/BicycleWork Type: Pedestrian & Bicycle Work2026LocalCONST\$0\$0\$800Date Added:Last Revised: 10/2022Revison History:Comments:Project would move us closer to completing a loop trail around Lawrence. Through public input and administrative review, this project was identified as a priority project in the recently completed Parks & Recreation Master Plan (2017).File AddeeFile AddeeFile AddeeFile AddeeFile AddeeLocation:Comments:Comments:Project would move us closer to completed Parks & Recreation Master Plan (2017).File AddeeFile AddeeFile AddeeFile AddeeLocation:Constant Park.Project would move us closer to completed Parks & Recreation Master Plan (2017).File AddeeFile AddeeFile AddeeLocation:Constant Park.Project would move us closer to completed Parks & Recreation Master Plan (2017).File AddeeFile AddeeFile AddeeLocation:Constant Park.Project would move us closer to completed Parks & Recreation Master Plan (2017).File AddeeFile AddeeFile AddeeLocation:Constant Park.Project move us closer to completed Parks & Recreation Master Plan (2017).File AddeeFile Addee <th>Project Sponsor: Lawrence</th> <th>Project Lawrence Loop Trail - Kaw River -7th street Name: to Constant Park</th> <th>FFY</th> <th>Fund Source</th> <th>Phase</th> <th>Federal</th> <th>State</th> <th>Local</th>	Project Sponsor: Lawrence	Project Lawrence Loop Trail - Kaw River -7th street Name: to Constant Park	FFY	Fund Source	Phase	Federal	State	Local
Street to Constant ParkIndicationInd	TIP #:         521         KDOT #		2023		OTHER	\$0	\$0	\$275
Project Type: Pedestrian/BicycleWork Type: Pedestrian & Bicycle Work2025LocalCONST\$0\$0\$6002026LocalCONST\$0\$0\$800\$800Date Added:Last Revised:Revison History:Comments:\$0\$0\$80010/2022Description:Comments:Project would move us closer to completing a loop trail around Lawrence. Through public input and administrative review, this project was identified as a priority project in the recently completed Parks &For a state of the state o	Length (mi): 0.50		2024	Local	PE	\$0	\$0	\$530
Project Type: Pedestrian/Bicycle       Work Type: Pedestrian & Bicycle Work         Date Added:       Last Revised:       Revison History:         10/2022       Comments:       Project would move us closer to completing a loop trail from the Santa Fe Depot on 7th Street to Constant Park.       Project would move us closer to completing a loop trail around Lawrence. Through public input and administrative review, this project was identified as a priority project in the recently completed Parks &		street to Constant Park	2025	Local	CONST	\$0	\$0	\$600
Date Added:Last Revised:10/2022Revison History:Description:Comments:Complete the downtown section of the Lawrence Loop Trail from the Santa Fe Depot on 7th Street to Constant Park.Project would move us closer to completing a loop trail around Lawrence. Through public input and administrative review, this project was identified as a priority project in the recently completed Parks &	Project Type: Pedestrian/Ricycle	Work Type: Pedestrian & Bicycle Work	2026	Local	CONST	\$0	\$0	\$800
10/2022Description:Comments:Complete the downtown section of the Lawrence Loop Trail from the Santa Fe Depot on 7th Street to Constant Park.Project would move us closer to completing a loop trail around Lawrence. Through public input and administrative review, this project was identified as a priority project in the recently completed Parks &	Floject Type. Tedestilan/Dicycle	work Type. Fedestrian & Dicycle Work						
Complete the downtown section of the Lawrence Loop Trail from the Santa Fe Depot on 7th Street to Constant Park.Project would move us closer to completing a loop trail around Lawrence. Through public input and administrative review, this project was identified as a priority project in the recently completed Parks &		Revison History:						
	Complete the downtown section of the Lawrence Loop Trail from the Santa Fe	Project would move us closer to completing a loop trail around Lawrence. Through public input and administrative review, this project was identified as a priority project in the recently completed Parks &						

Federal	\$0
Total:	φU

Non-Federal Total:

\$2,205



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence	Project Lawrence Loop Trail from Queens Rd to Name: Kasold	FFY	Fund Source	Phase	Federal	State	Local
TIP #:         522         KDOT #		2025	Local	ROW	\$0	\$0	\$2,000
Length (mi): 1.75	<b>Location:</b> Lawrence Loop Trail from Queens Rd to Kasold	2026	Local	PE	\$0	\$0	\$100
Project Type: Pedestrian/Bicycle	Work Type: Pedestrian & Bicycle Work						
Date Added: Last Revised: 10/2022	Revison History:						
Description:	Comments:						
Construct a 10ft a concrete shared use path that connects the Baldwin Creek Trail at Queens Road, to E 1130 Road to help complete the Lawrence Loop Trail.	Project would move us closer to completing a loop trail around Lawrence. Through public input and administrative review, this project was identified as a priority project in the recently completed Parks & Recreation Master Plan (2017)						

Federal	\$0
Total:	φU

Non-Federal \$2,100



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: City of Eudora		Project Church Street Shared Use Path Name: FFY	Fund Source		Federal	State	Local	
<b>TIP #:</b> 523	KDOT #		2024		CONST	\$0	\$0	\$218
Length (mi): 0.49		Location: Church Street from 20th to 15th Street	2024	TA	CONST	\$871	\$0	\$0
Project Type: Pe	destrian/Bicycle	Work Type: Pedestrian & Bicycle Work						
Date Added: 6/2023	Last Revised: 6/2023	Revison History: FFY23 A2						
Church Street from including RRFBs	of an 8-foot wide Jse Path (SUP) along n 20th to 15th Street, at the crossings and a n barrier on the bridge	<b>Comments:</b> This SUP will connect the City's sidewalk network north of K-10 Hwy with an existing SUP that extends from 20th to 27th Street.						

Federal	\$871
Total:	φοιι

Non-Federal Total:

\$218



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: KDOT		Project Various Railroad Safety Projects in the Name: Region	FFY	Fund FFY Source	'V	Phase	Federal	State	Local
TIP #: 600 K	DOT #		2020	State-AC	CONST	\$0	\$500	\$0	
_ength (mi):		Location:	2021	Credit	OTHER	\$0	(\$500)	\$0	
			2021	State-AC	CONST	\$0	\$500	\$0	
Project Type: Safety		Work Type	2022	Credit	OTHER	\$0	(\$500)	\$0	
		Work Type:	2022	State-AC	CONST	\$0	\$500	\$0	
Date Added: Last Revised:	Last Revised:	Revison History:	2023	HSIP	CONVERSION	\$500	\$0	\$0	
10/2014	10/2020		2023	HSIP	CONVERSION	\$500	\$0	\$0	
Description:		Comments:	2023	HSIP	CONVERSION	\$500	\$0	\$0	
Safety improvements along railroads in region as identified by KDOT. These funds may be used to benefit the region by working to correct or improve identified safety hazards at public railway-		This is a master project that would include any	2023	Credit	OTHER	\$0	(\$500)	\$0	
		safety projects selected in region. State funds (SF) Conversions: 2020 SF to 2021 HSIP, 2021 SF to	2023	State-AC	CONST	\$0	\$500	\$0	
		2022 HSIP, 2022 SF to 2023 HSIP, 2023 SF to	2024	HSIP	CONVERSION	\$500	\$0	\$0	
,	a proactive manner.	2024 HSIP.	2024	Credit	OTHER	\$0	(\$500)	\$0	
•									

Federal	\$2,000
Total:	φ2,000

Non-Federal \$0



(Includes the Program of Projects for the Lawrence Transit System)

r: Douglas County	Project DGCO: High Friction Surface Treatment		Fund	Phase	Federal	State	Local
KDOT # C-5065-01	Name:			CONST	\$0	\$0	\$112
6	Location: Routes 442 and 1055			CONST	\$1,011	\$0	\$0
oad	Work Type: Surfacing						
Last Revised: 10/2021	Revison History:						
	Comments:						
	Safety Improvements in Douglas County						
	6 oad Last Revised:	Name:       Name:         6       Location: Routes 442 and 1055         oad       Work Type: Surfacing         Last Revised:       Revison History:         10/2021       Comments:         n surface treatment to       Safety Improvements in Douglas County	KDOT # C-5065-01     Name:     FFY       6     Location: Routes 442 and 1055     2022       oad     Work Type: Surfacing     2022       Last Revised:     Revison History:       10/2021     Comments:       n surface treatment to     Safety Improvements in Douglas County	KDOT # C-5065-01       Name:       FFY       Source         6       Location: Routes 442 and 1055       2022       Local         oad       Work Type: Surfacing       2022       HSIP         oad       Work Type: Surfacing	KDOT # C-5065-01       Name:       FFY       Source         6       Location: Routes 442 and 1055       2022       Local       CONST         oad       Work Type: Surfacing       2022       HSIP       CONST         oad       Work Type: Surfacing       FFY       Source       2022       HSIP       CONST         oad       Comments:       Comments:       Safety Improvements in Douglas County       FFY       Source       2022       HSIP       CONST	Name:       FFY       Source         6       Location: Routes 442 and 1055       2022       Local       CONST       \$0         0ad       Work Type: Surfacing         Last Revised:       Revison History:	KDOT # C-5065-01 FFY Source   6 Location: Routes 442 and 1055 2022 Local CONST \$0 \$0   0ad Work Type: Surfacing   Last Revised: 10/2021 Revison History: Safety Improvements in Douglas County Comments: Safety Improvements in Douglas County

Federal	\$1,011	Non-Federal
Total:	<b>ΦΙ,ΟΙΙ</b>	Total:

Grand Total: \$1,123

\$112



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence		Project Massachusetts Street - 14th to 23rd Street Name: Multi-Modal Improvements FFY	FFY	Fund Source	Phase	Federal	State	Local
<b>TIP #:</b> 607	KDOT #		2023		PE	\$0	\$0	\$150
Length (mi): 1.1	0	Location: Massachusetts St 14th St. to 23rd St.	2024	Local	CONST	\$0	\$0	\$1,650
Project Type: S Date Added: 10/2021	afety Last Revised: 8/2022	Work Type: Pedestrian & Bicycle Work, Mill/Overlay, Safety Revison History:						
bike/ped facilities intersection impr Construction of p 2024 with street	ort recommended s on Mass. St. and ovements at 19th/Mass. oroject anticipated in maintenance project. state grant funds (HSIP	<b>Comments:</b> Mass. St. (11th-14th) reconfigured using 2018 KDOT safety funds. Mass. St. (14th-21st) is a gap in future primary network in T2040 & Lawrence Bikes. Connect to 21st St. Bike Blvd providing access to Iowa St. Complete a gap & provide multimodal downtown.						

Federal \$0 Total: Non-Federal \$1,800



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: KDOT	<b>Project</b> Signal Improvement at US24/US40/US59 <b>Name:</b> near Lawrence	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 608 KDOT # KA-628	01	2021	State	PE	\$13	\$0	\$0
Length (mi): 0.00	Location:US24/US40/US59 intersection 394.324 - 394.325	2023	State	CONST	\$173	\$0	\$0
Project Type: ITS	Work Type: Signal						
Date Added: Last Rev 10/2022	ed: Revison History:						
<b>Description:</b> Upgrade traffic signals to LED with battery backup, adding flashing ye arrow to permissive lefts and insta reflective backplates							

Federal	\$186	Non-Federa		
Total:	\$100	Total:		

ral \$0

Grand \$186 Total:



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: City of Lawrence	Project Safe Streets and Roads for All Name:	FFY	Fund Source	Phase	Federal	State	Local	
TIP #: 700	KDOT #	Name.	2023	Local	OTHER	\$0	\$0	\$10
Length (mi): 0.00		2023	State	OTHER	\$0	\$30	\$0	
		2023	SS4A	OTHER	\$160	\$0	\$0	
Project Type: Safe	ety	Work Type: Safety Planning						
<b>Date Added:</b> 4/2023	Last Revised: 4/2023	Revison History: FFY23 A1						
<b>Description:</b> Development of a <sup>1</sup> Action Plan for Lav Baldwin City	Vision Zero Safety vrence, Eudora, and	Comments:						

Federal	\$160	Non-Federal	\$40	Grand			
Total:	φ100	Total:	<b></b> φ40	<b>Total:</b> \$200			