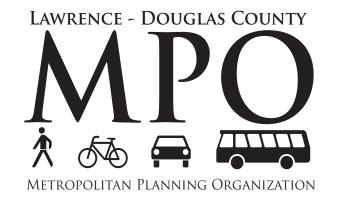
FFY 2021-2024 Transportation Improvement Program











MPO Policy Board Approval October 15, 2020

Amendment 1: February 18, 2021 Administrative Revision 1: February 19, 2021 Amendment 2: April 15, 2021 Amendment 3: August 19, 2021 Amendment 4: October 21, 2021 Administrative Revision 2: November 9, 2021 Administrative Revision 3: December 13, 2021 Amendment 5: April 21, 2022 Amendment 6: June 16, 2022 Administrative Revision 4: June 28, 2022



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(b) of the SAFETEA-LU (Pub. L. 109-59) 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.

Michelle Derusseau, Chair

Lawrence-Douglas County MPO

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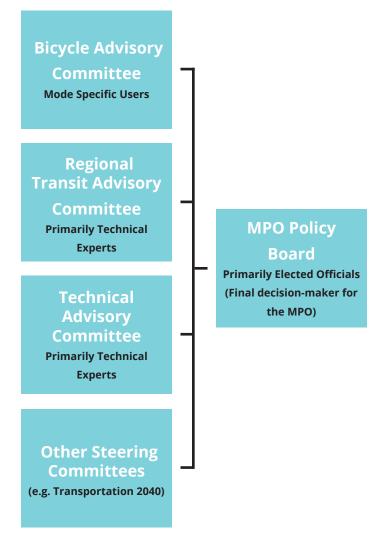
Funding Note: This report was funded in part through grant[s] from the Federal Highway Administration [and Federal Transit Administration], U.S. Department of Transportation. The views and opinions of the authors [or agency] expressed herein do not necessarily state or reflect those of the U.S. Department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

¹ INTRODUCTION ...WHAT IS AN MPO?

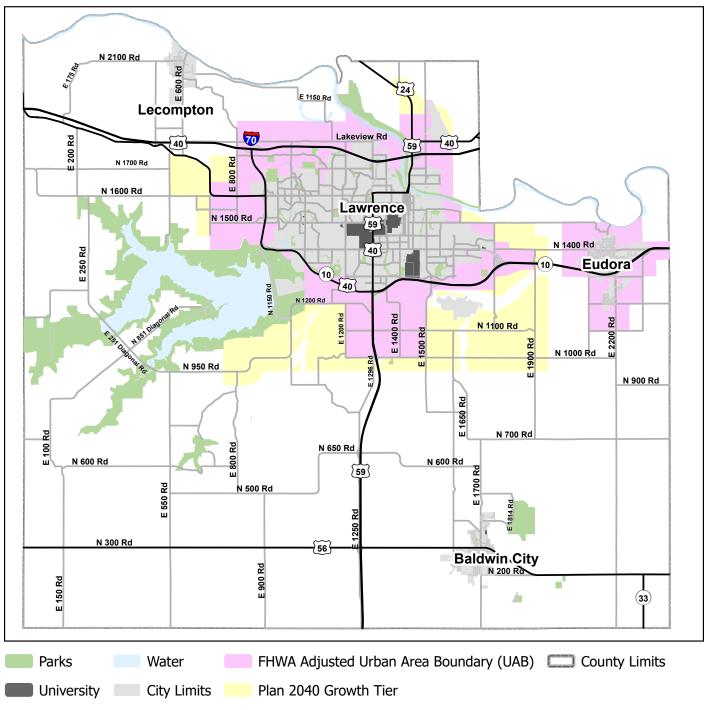
A Metropolitan Planning Organization (MPO) is a regional decision making body charged with developing a transportation plan and related policy and programming documents. The MPO is a group that is composed of representatives from many local governments that collectively discusses the transportation issues 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 composed of mostly 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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The map is provided "as is" without warranty or any representation of accuracy, timeliness or completeness. The burden for determining accuracy, completeness, timeliness, merchantability and fitness for or the appropriateness for use rests solely on the requester. The City of Lawrence makes no warranties, express or implied, as to the use of the map. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts the limitations of the map, including the fact that the map is dynamic and is in a constant state of maintenance, correction and update.

Date Exported: 8/20/2020 Source: Lawrence-Douglas County MPO Produced: Lawrence-Douglas County MPO

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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.¹ 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	8	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

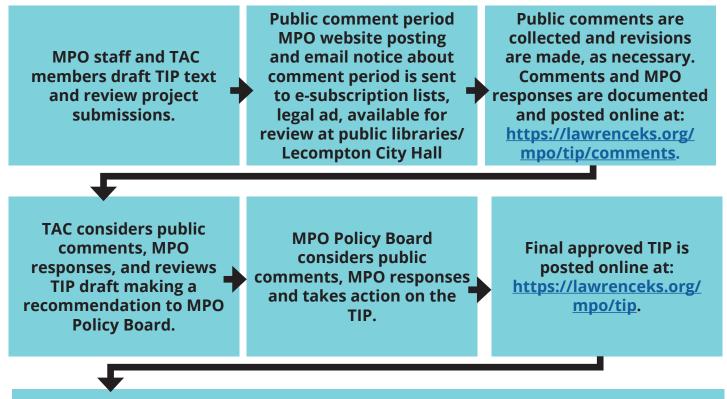
¹ https://lawrenceks.org/mpo/t2040

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.¹ 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.

¹ Details about the public participation process for the approval and amendment of the TIP can be found at www.lawrenceks.org/mpo/public_participation.

2 **PROGRAMMING PROCESS** ...HOW DO PROJECTS GET IN THE TIP?

Legislative Requirement

The current federal surface transportation legislation is called the Fixing America's Surface Transportation (FAST) Act.¹ It is a five year (FFY 2016-2020) transportation program signed into law by President Obama on December 4, 2015. 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.²

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.

Figure 4: TIP Project Listing Submission Process

The FAST Act was created as Public Law 114-96. The official legislation can be accessed at https://www.congress.gov/116/plaws/publ9/PLAW-1 116publ9.pdf

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.¹

A minimum 15-day public comment period is required for the proposed amendments are which is 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 4, 2020	9/10/2020 to 9/25/2020	October 6, 2020	October 15, 2020	November 2020
December 31, 2020	1/7/2021 to 1/22/2021	February 2, 2021	February 18, 2021	March 2021
March 5, 2021	3/11/2021 to 3/26/2021	April 6, 2021	April 15, 2021	May 2021
July 2, 2021	7/8/2021 to 7/23/2021	August 3, 2021	August 19, 2021	August 2021

FFY 2021 Quarterly Schedule for TIP Amendments

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.

TIP Amendment Request Made to MPO Staff	Public Review Period	TAC Approval	MPO Approval	STIP Approval
September 5, 2021	9/10/2021 to 9/25/2021	October 4, 2021	October 21, 2021	November 2021
March 4, 2022	3/10/2022 to 3/25/2022	April 5, 2022	April 21, 2022	May 2022
May 6, 2022	5/12/2022 to 5/27/2022	June 7, 2022	June 16, 2022	July 2022
July 1, 2022	7/7/2022 to 7/22/2022	August 2, 2022	August 18, 2022	August 2022

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.

¹ An appropriate level of public involvement activities are outlined in the latest MPO approved Public Participation Plan found online at www.lawrenceks.org/mpo/public_participation.

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

Project Funding

3

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 Fixing America's Surface Transportation (FAST) Act 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 Transportation 2040 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 \$200,000 and the City of Lawrence receiving about \$1.1 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. In 2020, Lawrence Transit was awarded \$3.76 million in Low or No-Emission (Low-No) Bus funding to purchase five electric buses. Furthermore, Lawrence Transit was awarded funding to assist in the COVID-19 pandemic recovery in the form of Coronavirus Aid, Relief, and Economic Security (CARES) Act funding.

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.

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 has 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 can not be separated for our analysis (Table 3).

Table 3: Lawrence	e Sales Tax for Improvement	of Roads and Transit Service	Projections (Shown in \$1,000s)
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Source	Тах	Actual Collection	Projected Collection							
Source	Percentage	2019	2020	2021	2022	2023	2024			
Roads/Infrastructure & Fire Equipment	0.30%	\$5,124	\$4,830	\$5,347	\$5,400	\$5,400	\$5,481			
Transit	0.20%	\$4,132	\$3,349	\$4,258	\$4,301	\$4,301	\$4,365			
	Total	\$9,256	\$8,179	\$9,605	\$9,701	\$9,701	\$9,847			

2019 information is from https://assets.lawrenceks.org/finance/sales-tax/2019/December.pdf. 2020 & 2021 revised projected collections presented to the City Commission on 7.14.20 during the COVID-19 pandemic. 2022-2024 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.

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. This amount of federal funding is typically small (less than \$60,000 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

Douglas County receives obligation authority for STP funds from KDOT. Douglas County 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 County received \$454,000 in KDOT's federal funds exchange program, and \$75,500 in federal sources such as Federal Lands Access Program and 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. However, due to planned mental health initiatives and expansion of the jail, the Board of County Commissioners has 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. In recent years, Lawrence has used about \$2.5 million annually 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. Furthermore, Lawrence Transit was awarded \$3.76 million in Low or No-Emission (Low-No) Bus funding to purchase five electric buses to replace five diesel powered buses.

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 grants for vehicle purchases. KDOT also funds paratransit vehicles in the region. 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 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 guarterly 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 (approximately \$0.556 million per year), 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

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.

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 2021 0&M budget for its road system of \$11.1 million paid with by state gas tax funds, local infrastructure sales tax, general fund, and federal sources. Douglas County has a 2021 0&M budget of \$18.5 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 2021 0&M budget of \$722,000 which is funded by Federal Funds Exchange with the State, motor fuel Tax, general fund, and other fees and funds. The City of Baldwin City has a 2021 0&M budget of \$460,000 which is made up from motor fuel tax and general funds. The City of Lecompton has a 2021 0&M budget of \$7,000 comprised of local funding. 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.

	KDOT		County*		Lawrence		Eudora		Baldwin City		Lecompton		Total
Base Cost Per Lane Mile	\$	2.7	\$	11.8	\$	12.8	\$	11.3	\$	8.6	\$	0.6	
Lane Miles		204		464		871		73		61		13	1,687
2021	\$	556	\$	5,496	\$	11,161	\$	828	\$	527	\$	9	\$ 18,578
2022	\$	576	\$	5,689	\$	11,513	\$	857	\$	546	\$	9	\$ 19,189
2023	\$	596	\$	5,888	\$	11,853	\$	887	\$	565	\$	9	\$ 19,798
2024	\$	617	\$	6,094	\$	12,202	\$	919	\$	585	\$	9	\$ 20,425
Total	\$	2,344	\$	23,167	\$	46,728	\$	3,492	\$	2,222	\$	36	\$ 77,989

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.

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 2021, Lawrence Transit has an O&M budget of approximately \$18.9 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 and \$3 million in capital funds currently programmed in 2025. Furthermore, Lawrence Transit was awarded \$3.76 million in Low or No-Emission (Low-No) Bus funding to purchase five electric buses to replace five diesel powered buses in FFY2021. Lastly a portion of local funding is designated for the multimodal transfer facility. Table 5 displays the Lawrence Transit O&M. The large drop in O&M between 2021 and 2022 is due to the \$5.7 million of reserve funding, which a portion will be used for the multimodal transfer facility and the Low-No Bus funding. The levels of O&M expenses and revenues shown in Table 5 (without the \$3.5 million multimodal transfer facility and Low-No Bus funding) are anticipated to continue through the four-year fiscally constrained period (2020-2022) since the CARES act funding is being spread out over 2020-2025).

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

FFY	2021	2022	2023	2024	Total		
Total O&M	\$ 18,952	\$ 9,595	\$ 9,731	\$ 9,870	\$	48,148	

*Based on information provided by Lawrence Transit

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 other projects and the TIP is fiscally constrained.

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 operations are expected to have reduction for 2021 based on required funding cuts due to the COVID-19 pandemic. 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)

FFY	2021		2022	2023	2024	Total		
Total O&M	\$ 4,107	\$	4,184	\$ 5,261	\$ 5,340	\$	18,892	

*Based on financial information from Transportation 2040 and COVID-19 reductions from 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. However, in response to conversations KDOT had with several (FTA-5310) transit providers regarding their needs during the ongoing pandemic, additional funds were provided to agencies based on their fleet size. A total of \$5,000 was provided to agencies with a fleet size of less than 10 and \$10,000 to those with 10 or more in support of their personal protective equipment (PPE) needs. The additional assistance makes for a total state subsidy of \$365,000. In addition to the added funds, KDOT has delivered approximately 25,000 federally purchased face coverings to providers statewide in support of their PPE needs. KDOT currently has 77 active transit agencies utilizing the general public transit program (FTA-5311). Since March 2020 and through SFY2021, the CARES Act has allowed KDOT to reimburse these agencies at 100%, eliminating the local match requirement. Given the large sum of federal funds allocated to Kansas, KDOT will also be able to provide 100% reimbursement for all capital, operating, and administrative expenses. It is expected the apportionment will fund a portion of 2022 as well. Independence, Inc. is the only provider in Douglas County receiving 5311 funds at this time.

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).¹

Taking into account all transit expenses in the region including Lawrence Transit, KU on Wheels, and the various paratransit providers the regional transit O&M is close to \$24.6 million in 2021 (Table 7).

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

FFY	2021		2022	2023	2024	Total
Total O&M	\$ 23,562	<u>ч</u>	14,289	\$ 15,511	\$ 15,736	\$ 69,098

*Based on financial information from Lawrence Transit, KU on Wheels, and Transportation 2040

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 T2040 Inflation Factor) for all TIP projects to determine the estimated costs in the year of expenditure. This inflation factor was developed by KDOT in 2012 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.

1 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)												
	F	FY 2021		FFY 2022		FFY 2023	F	FY 2024		Total		
Anticipated Funding	\$	115,576	\$	100,927	\$	125,618	\$	97,078	\$	439,200		
Anticipated O&M Expenditures	\$	42,971	\$	34,343	\$	36,208	\$	37,097	\$	150,619		
Funding Available for Projects	\$	72,605	\$	66,583	\$	89,410	\$	59,982	\$	288,581		

This TIP document provides realistic cost and funding estimates for improvement projects in the first two years of the fiscal constraint period (2021 and 2022). Predicting the revenues which will be available and costs for projects in the second half of that period (2023 and 2024) are a more speculative exercise.

As Transportation 2040 was completed in 2018. The financial data was reviewed to determine if it was still accurate for each jurisdiction. In many cases jurisdictions provided updated data. However, this TIP was developed during the middle of the COVID-19 pandemic, so jurisdictions acknowledged the financial information provided is contingent on recovery efforts. For jurisdictions that did not provide updated financial information, the Transportation 2040 projects which utilized 2012-2016 average funding levels were utilized with a 1.5% inflation factor applied to the average to determine future funding amounts. The MPO has assumed these funding levels for federal funding will remain in place through 2024. 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 2021-2024 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 2021	F	FFY 2022	F	FY 2023	F	FY 2024	Total
	Federal	\$	10,710	\$	7,714	\$	8,363	\$	4,157	\$ 30,944
Transit	State	\$	869	\$	889	\$	2,534	\$	2,555	\$ 6,847
Tra	Local	\$	15,899	\$	15,591	\$	17,397	\$	12,730	\$ 61,617
it '	Federal	\$	2,247	\$	2,250	\$	2,254	\$	2,257	\$ 9,009
Non- Transit	State	\$	9,798	\$	6,129	\$	24,384	\$	3,297	\$ 43,607
	Local	\$	33,083	\$	34,009	\$	34,479	\$	34,985	\$ 136,556
Transit Total		\$	27,477	\$	24,195	\$	28,294	\$	19,442	\$ 99,408
Non-Transit Total		\$	45,128	\$	42,388	\$	61,117	\$	40,539	\$ 189,172
	Grand Total	\$	72,605	\$	66,583	\$	89,410	\$	59,982	\$ 288,581

Anticipated funding is based on the revenue assumptions in Transportation 2040 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) passed, which provides local funding until 2028.

	Estimated Expenditures by Year and Funding Source (in thousands)										
Funding Source			F	FY 2021	F	FY 2022	F	FY 2023	F	FY 2024	Total
		FTA 5307	\$	4,454	\$	9,069	\$	2,988	\$	-	\$ 16,511
	⁻ ederal Funds	FTA 5310	\$	-	\$	-	\$	-	\$	-	\$ -
nsit	Federal Funds	FTA 5311	\$	116	\$	-	\$	-	\$	-	\$ 116
Transit	_	FTA 5339	\$	3,756	\$	192	\$	1,624	\$	-	\$ 5,572
	Sta	te-PT	\$	1,321	\$	1,288	\$	1,321	\$	1,321	\$ 5,251
	Lo	ocal	\$	12,561	\$	12,103	\$	11,680	\$	5,746	\$ 42,090
		CDBG	\$	300	\$	300	\$	300	\$	300	\$ 1,200
	spu	HRRR	\$	-	\$	-	\$	-	\$	-	\$ -
L	Fu	HSIP	\$	500	\$	1,511	\$	500	\$	500	\$ 3,011
insi	Federal Funds	NHPP	\$	4,002	\$	1,546	\$	-	\$	-	\$ 5,548
Non-Transit	Fed	STP	\$	2,923	\$	-	\$	-	\$	-	\$ 2,923
Non		ТА	\$	1,993	\$	3,814	\$	1,291	\$	-	\$ 7,098
2	St	ate	\$	3,717	\$	5,294	\$	7,206	\$	1,524	\$ 17,741
	State AC C	Conversion*			\$	(2,046)	\$	(500)	\$	(500)	\$ (3,046)
	Lo	ocal	\$	5,775	\$	28,861	\$	17,531	\$	17,156	\$ 69,323
	Transit Total		\$	22,208	\$	22,652	\$	17,613	\$	7,067	\$ 69,540
	Non-Transit Total			19,210	\$	39,280	\$	26,328	\$	18,980	\$ 103,798
		Grand Total	\$	41,418	\$	61,932	\$	43,941	\$	26,047	\$ 173,338

*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
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#	Project	Enhance transportation options & choices for improved system performance	Efficient movement of people, goods, & freight	Prioritize preservation, safety, & security of the transportation network	Minimize adverse social, economic, & environmental impacts created by transportation
106	Wakarusa Drive Extension	Х	Х	Х	
117	Naismith Drive Reconstruction: 19th St. to 23rd St.	Х	Х	Х	
135	K-10: West of E1900 East to DG/JO County Line Surfacing			Х	
136	K-10: West Leg Surfacing			Х	
137	US-40 in Douglas County (1R Project)			Х	
138	US-56 in Douglas County (1R Project)			Х	
141	Church Street Improvements: 15th St. to 14th St.	Х	Х	Х	Х
214	Wakarusa Drive Reconstruction, Research Pkwy. to 23rd St.	Х	Х	Х	
219	Rte 458 Improv., E1500 to E1600, & Rte 1055, N940 to N1000			Х	
229	19th Street Reconstruction, O'Connell Rd. to Harper St.	Х	Х	Х	Х
230	Queens Road: 6th St. to North City Limits	Х	Х	Х	Х
234	23rd Street Reconstruction, Haskell to East City Limits	Х	Х	Х	Х
248	Bridge 0964-1000 replacement			Х	
249	Repair bridge #071 on K-10 in Douglas County			Х	
401	Independence Inc., FTA 5311 Operating & Capital	Х		Х	Х
403	Lawrence Transit Capital Assistance	Х	Х	Х	Х
410	Lawrence Multi-Modal Center	Х	Х	Х	Х
412	Lawrence Transit Operating Funds	Х	Х	Х	Х
416	Lawrence Transit Electric Buses	Х			Х
417	CARES Act Operating Funds	Х	Х	Х	Х
507	Various Lawrence Sidewalk/Bike/Ped/ADA Ramps Projects	Х	Х	Х	Х
508	Lawrence Loop Shared-Use Paths - 8th St. to 11th St. & 29th St.	Х		Х	Х
509	West Baldwin Pedestrian/Bike Connectivity Project	Х	Х		Х
511	West Baldwin Pedestrian/Bike Connectivity Project Phase 2 & 3	Х	Х		Х
512	Lawrence Loop Shared Use Path - Peterson Rd. to Michigan St.	Х	Х		Х
513	Lawrence Safe Routes to School Phase 2 (2021)	Х	Х	Х	Х
514	Naismith Drive Mobility Enhancement	Х	Х		Х
600	Various Railroad Safety Projects in the Region		Х	Х	
605	DGCO: High Friction Surface Treatment			Х	

Green shading indicates project sponsors selected the project improving the goal, gray indicates the goal is not being furthered by the project

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 https://lawrenceks.org/mpo/t2040/pm. 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 2020. 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 - 2020

Safety	2020
9) Number of fatalities	7.1
10) Rate of fatalities per 100 million VMT	0.8
11) Number of serious injuries	15.0
12) Rate of serious injuries per 100 million VMT	1.1
13) Number of non-motorized fatalities & serious injuries	4.2

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.¹ (Example: Project #508: Lawrence Loop Shared Use Paths - 8th St to 11th St & 29th St)

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)

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

Access management

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.¹ (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 L-DC MPO Safety Targets

	Roadway - Resurfacing					
#	Project Name	Improvement with Safety Impact				
135	K-10: West of E1900 East to DG/JO County Line Surfacing	Resurfacing providing smoother pavement				
136	K-10: West Leg Surfacing	Resurfacing providing smoother pavement				
137	US-40 in Douglas County (1R Project)	Resurfacing providing smoother pavement				
138	US-56 in Douglas County (1R Project)	Resurfacing providing smoother pavement				
		Applying high-friction road surface treatment				
		helps maintain pavement friction reducing				
605	DGCO: High Friction Surface Treatment	crashes				

	Roadway - Geometric Improvements					
#	Project Name	Improvement with Safety Impact				
		Potentially remove two at-grade				
		intersections on K-10 in conjunction with				
106	Wakarusa Drive Extension	KDOT's construction of interchange				
139	Wakarusa Dr. Reconstruction: 6th St. to Harvard Rd.	Intersection improvements				
		Provide paved shoulders and flatten roadside				
219	Rte 458 Improv., E1500 to E1600, & Rte 1055, N940 to N1000	slopes				

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

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

	Roadway - Pedestrian and Bicycle Facilities					
#	Project Name	Improvement with Safety Impact				
117	Naismith Drive Reconstruction: 19th St. to 23rd St.	Roadway work will include bicycle facilities				
		Roadway work will include pedestrian and				
214	Wakarusa Drive Reconstruction, Research Pkwy to 23rd St.	bicycle facilities and two way left turn lanes				
		Roadway work will include pedestrian and				
229	19th Street Reconstruction, O'Connell Rd to Harper St.	bicycle facilities, and access management				
		Roadway work will include bicycle/pedestrian				
230	Queens Road: 6th to North City Limits	elements and geometric improvements				
		Roadway work will include pedestrian and				
		bicycle facilities, access management, and				
234	23rd Street Reconstruction, Haskell to East City Limits	turn lanes				
141	Church Street Improvements: 15th St. to 14th St.	Multimodal facilities and traffic light				

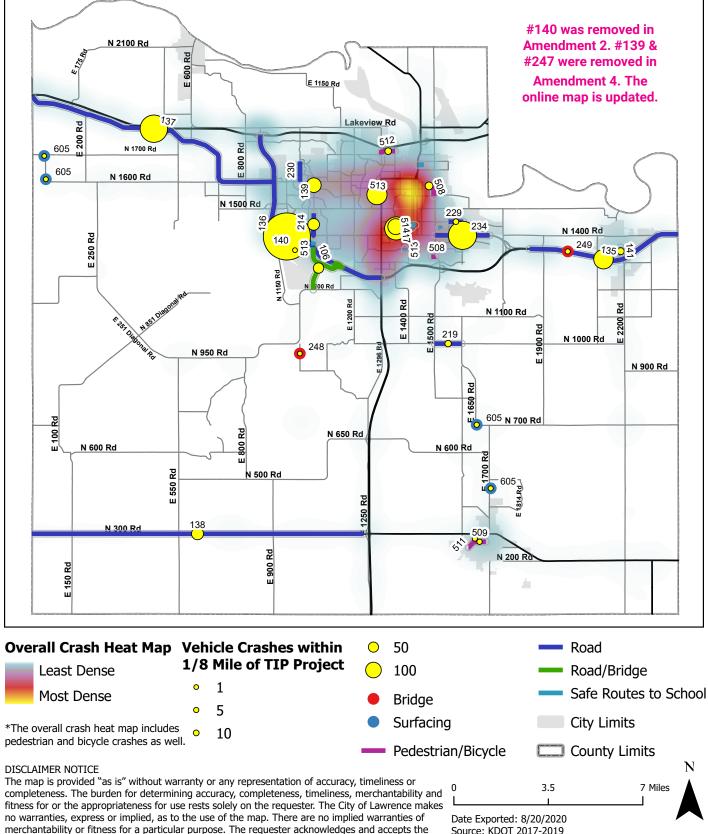
	Bicycle and Pedestrian Projects						
#	Project Name	Improvement with Safety Impact					
		Install pedestrian and bicycle projects and					
507	Various Lawrence Sidewalk/Bike/Ped/ADA Ramps Projects	ADA ramps					
508	Lawrence Loop Shared Use Paths - 8th St 11th St & 29th St.	Install Shared Use Paths					
509	West Baldwin Pedestrian/Bike Connectivity Project	Install sidewalk					
511	West Baldwin Pedestrian/Bike Connectivity Project Phase 2 & 3	Install a Shared Use Path					
		Install Shared Use Paths and a grade					
512	Lawrence Loop Shared Use Path - Peterson Rd. to Michigan St.	separated crossing					
513	Lawrence Safe Routes to School Phase 2 (2021)	Install sidewalk					
514	Naismith Drive Mobility Enhancement	Install pedestrian and bicycle facilities					

	Br	idge
#	Project Name	Improvement with Safety Impact
248	Bridge 0964-1000 replacement	Replace with a wider bridge
249	Repair bridge #071 on K-10 in Douglas County	Bridge repair

		Railroad
#	Project Name	Improvement with Safety Impact
		This grouped project is for railroad safety projects that improve safety hazards at public railroad crossings. It targets known
600	Various Railroad Safety Projects in the Region	railroad safety issues throughout the region.

The MPO examined 2017-2019 crash data provided by KDOT to determine high crash locations. As shown in Figure 6, there were twenty-five (25) crashes between 2017-2019 near the TIP project locations. Twenty-one (21) of the non-transit projects are improving safety.





Source: KDOT 2017-2019 Produced: Lawrence-Douglas County MPO

maintenance, correction and update.

limitations of the map, including the fact that the map is dynamic and is in a constant state of

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

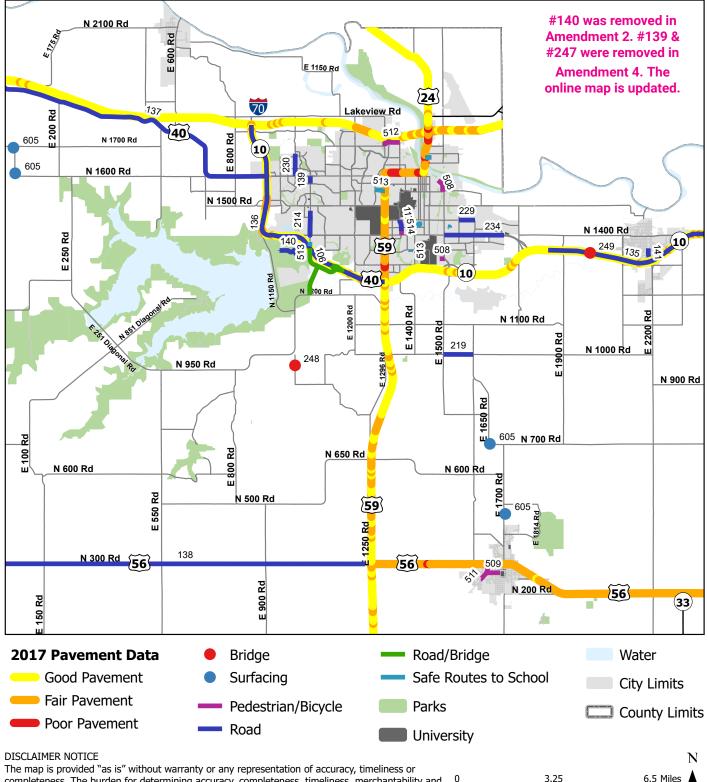
There are 3 bridge projects in the TIP. One is a NHS bridge - #249 the K-10 bridge over the Wakarusa River. Improving the overall quality of bridges in Douglas County will assist in achieving the local performance measures of improving non-NHS bridges. Table 15 displays the projects which improve pavement conditions.

Table 15: Projects Improving Pavement Conditions on the Non-Interstate NHS

# Project Name	Years	Length	Total Cost
135 K-10: West of E1900 East to DG/JO County Line Surfacing	2019-2021	5.8	\$ 1,241
136 K-10: West Leg Surfacing	2020-2021	8.4	\$ 3,766
138 US-56 in Douglas County (1R Project)	2020-2021	12.3	\$ 1,782
139 Wakarusa Dr. Reconstruction: 6th St. to Harvard Rd.	2023-2024	0.25	\$ 3,300

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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Date Exported: 8/20/2020 Source: KDOT 2017 Produced: Lawrence-Douglas County MPO

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	t State of Good Repair	Vehicle Type	Target	
16)		Full-sized bus	25%	
	Revenue Vehicles	Cutaway bus	25%	
	Revenue 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 federally	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, in a transit revenue facility, or in a transit revenue vehicle and meeting established NTD thresholds. These measures will be updated yearly.

Table 18: Lawrence Transit Safety Targets - 2020

Mode of Transit Service	Fatalities (Total)	Fatalities (per 100 Thousand Vehicle Revenue Miles)	lnjuries (Total)	Injuries (per 100 Thousand Vehicle Revenue Miles)	Safety Events (Total)	Safety Events (per 100 Thousand Vehicle Revenue Miles)	System Reliability (Vehicle Revenue 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

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, four (4) out of six (6) 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 Name	How the Project Improves 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	Replaces five diesel powered buses with electric buses

Table 20: Projects addressing Lawrence Transit Safety Targets

# Project Name	How the Project Improves Transit ULB
403 Lawrence Transit Capital Assistance	Purchase paratransit vehicles
412 Lawrence Transit Operating Funds	Vehicle preventantive maintenance
416 Lawrence Transit Electric Buses	Replaces five diesel powered buses with electric buses

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.

FFY2021 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.¹ 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>.²

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 2014-2018 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 (vintage 2018 TIGER/ Line Shapefiles 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

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

² 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.

99% Confidence Interval for the Mean Minority Population, by 2010 Census Block Groups (vintage 2019 TIGER/Line Shapefiles)

The US Census Bureau collects demographic data for one race and a combination of races. For this review, only one race data attribute was used to depict areas within Douglas County that have a minority population within the 99% Confidence Interval average population residing in Lawrence and Douglas County. Essentially, a confidence interval indicates a range of values that's likely to encompass the true value in our community. With a 99% mean confidence interval we are 99% sure that the interval contains all of the values. The mean minority population is 12.87%. The 99% confidence interval is \pm 3.46%. Therefore, 12.86% + 3.46% equals 16.3%. So we are 99% sure that the minority population is over 16.3%.

The majority race in this region is White/Caucasian and the other races collectively are considered as the minority group population for this EJ analysis. The 2014-2018 American Community Survey 5-Year Estimates indicates the minority population within Douglas County represents 13.7% of the total population. In Lawrence, the minority population is slightly higher representing 15.9% percent of the total population. The EJ zone is shown in Figure 9 and Figure 10.

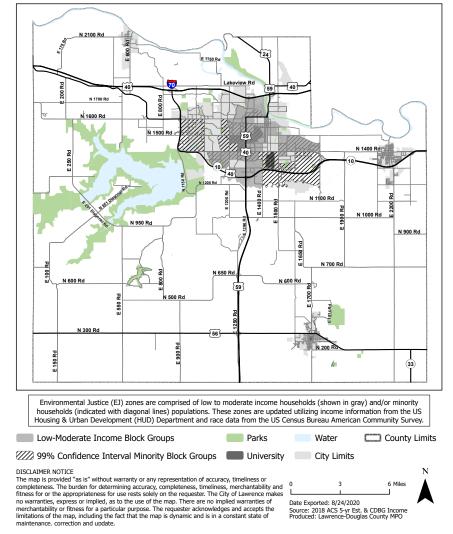
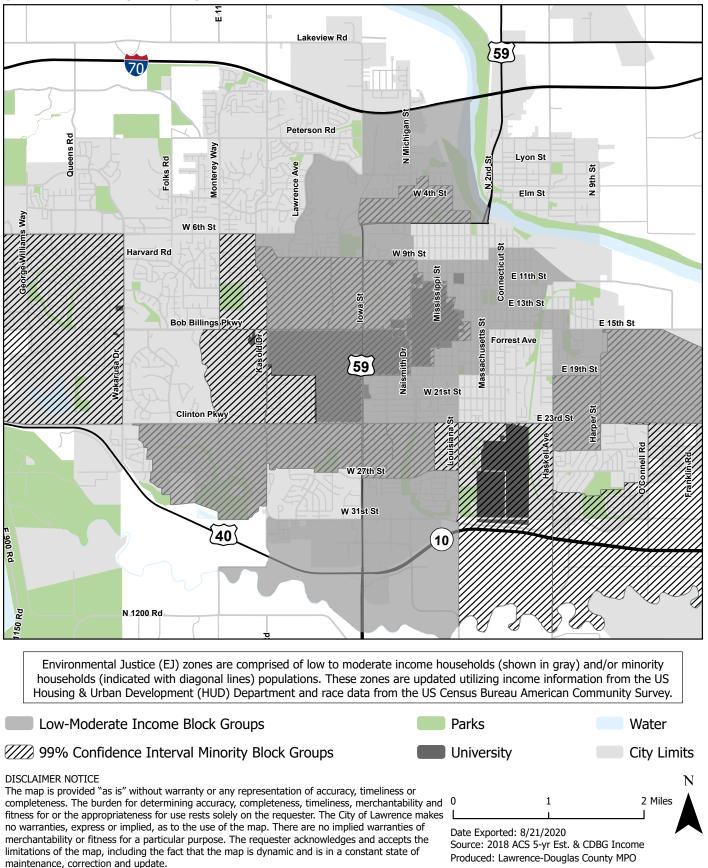


Figure 9: EJ Zone (Douglas County)

Figure 10: EJ Zone (Lawrence)



Elevating Equity

The MPO desires to elevate equity analysis as a tool to encourage conversation about project selection and impacts of projects to local project sponsors. This is done by providing data driven information to project sponsors and discussing the need to create real choices in where people live and how people travel for all of our residents, across age, race and ethnicity, economic means, and ability.

Transportation Disadvantaged Populations

An additional analysis was conducted for other transportation disadvantages populations which may not be included in the traditional EJ analysis. Several population characteristics were analysed to elevate equity. These characteristics 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. The regional average was found for each topic except for income. Then one point was assigned if the block group was equal to or 20 percent higher than the regional average. Two points were attributed if the block group was 20 percent to 40 percent of the regional average. And three points were assigned if the block group was greater than 40 percent higher than the regional average. Low-moderate income data is the Community Development Block Grant (CDBG) identified low-moderate income areas. A block group is low-moderate income if the low-moderate income percentage for the block group is 51.0%. The 27 block groups that are considered low-moderate income were split into 3 groups of 9 and the highest percentage of lowmoderate income were assigned three points, then two points, and lastly one point. Table 21 displays the regional average and the point range for each topic. Figure 11 displays the Douglas County map. Figure 12 shows the Lawrence specific Transportation Disadvantaged Population analysis. To view information about the Lawrence specific analysis visit https://lawrenceks.org/mpo/transportationdisadvantaged. Transportation Disadvantaged Population Scores which are higher correlates to additional scrutiny necessary to ensure these populations are not disproportionately affected.

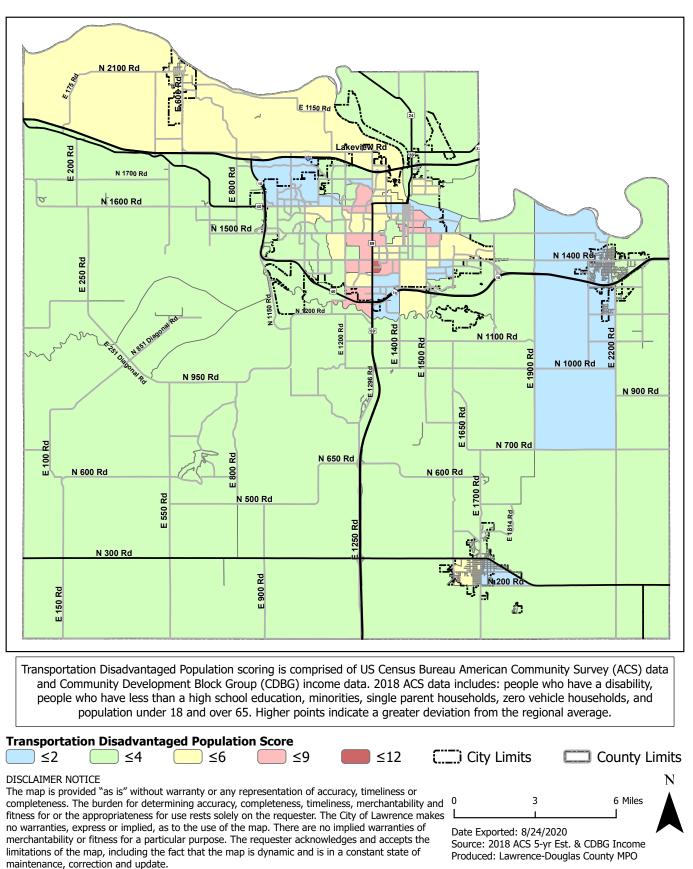
Торіс	Regional Average	1 Point		2 Poin	ts	3 Points	
Person who has a disability	20.2%	20.2% to 40	0.1%	40.2% to	60.1%	Greater than or equal to	60.2%
Less than high school diploma	4.5%	4.5% to 24	4.4%	24.5% to	44.4%	Greater than or equal to	44.5%
Minority	12.9%	12.9% to 32	2.8%	32.9% to	52.8%	Greater than or equal to	52.9%
Single parent household	24.3%	24.3% to 44	4.2%	44.3% to	64.2%	Greater than or equal to	64.3%
Households without vehicles	5.8%	5.8% to 2	5.7%	25.8% to	45.7%	Greater than or equal to	45.8%
Youth (under 18)	18.6%	18.6% to 38	8.5%	38.6% to	58.5%	Greater than or equal to	58.6%
Senior citizens (65+)	11.3%	11.3% to 3 ⁻	1.2%	31.3% to	51.2%	Greater than or equal to	51.3%
Low-moderate CDBG income		51.0% to 62	2.4%	62.5% to	78.9%	Greater than or equal to	79.0%

Table 21: Transportation Disadvantaged Populations Scoring

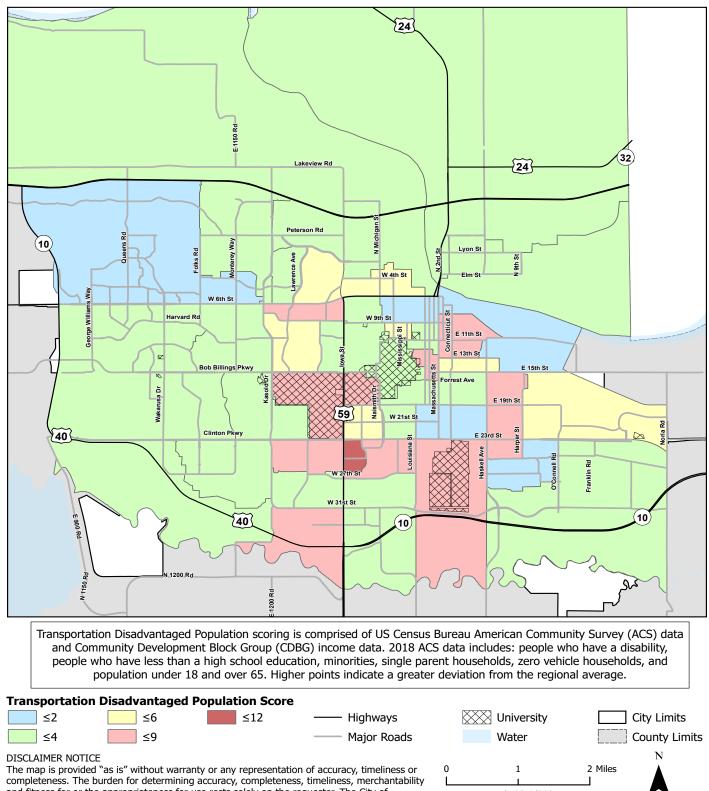
Source: 2018 American Community Survey 5-year Estimates and CDBG Income. Points were assigned based on the percentage of each measure per block group. Then one point was assigned if the block group was equal to or 20 percent higher than the regional average. Two points were attributed if the block group was 20 percent to 40 percent of the regional average. And three points were assigned if the block group was greater than 40 percent higher than the regional average. Low-moderate income data is the Community Development Block Grant (CDBG) identified low-moderate income areas. A block group is low-moderate income if the low-moderate income percentage for the block group is 51.0%. The 27 block groups that are considered low-moderate income were split into 3 groups of 9 and the highest percentage of lowmoderate income were assigned three points, then two points, and lastly one point.

Appendix F contains the sources and definitions for each of the measures.









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Date Exported: 9/10/2021 Source: 2018 ACS 5-yr Est. for all except for income & 2015 ACS 5-yr Est. for HUD provided CDBG Income

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.

Table 22: Fiscally Constrained TIP Projects (shown in \$1,000s)

	Number of Projects	Tot	al Project Cost
TIP Projects (2021-2024)	31	\$	114,804
TIP Projects Mapped (2021-2024)	23	\$	61,730
TIP Projects Mapped in EJ Zones (2021-2024)	10	\$	34,668

*Total project costs includes project phases outside of the TIP years (2021-2024)

**Various Lawrence Sidewalk/Bike/Ped/ADA Ramps Projects are not mapped, but EJ proritization is included in the selection of locations process, thus this project was included in the projects mapped in EJ Zones

Twenty-three (23) projects were mapped in this 2021-2024 TIP, for a combined total of \$61.7 million. Of the 23 mapped projects in the TIP, 10 are considered EJ projects for the purpose of this analysis for a total improvement cost of \$34.6 million (as shown in Table 23). Approximately 56% of the total funding for the 23 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.

Table 23: EJ Zone Projects (shown in \$1,000s)

#	Project Name	Project Type		otal Project	Miles of New	Miles of New Sidewalk
				Cost	Bikeway	
117	Naismith Drive Reconstruction: 19th St. to 23rd St.	Road	\$	4,300	0.5	0
136	K-10: West Leg Surfacing	Road	\$	3,766	0	0
214	Wakarusa Drive Reconstruction - Research Pkwy to Clinton Pkwy	Road	\$	6,400	0.19	0
229	19th Street Reconstruction, O'Connell Rd to Harper St	Road	\$	3,625	0.5	0.5
234	23rd Street Reconstruction, Haskell Ave to East City Limits	Road	\$	9,750	TBD	TBD
508	Lawrence Loop Shared-Use Paths - 8th St to 11th St & 29th St	Transportation Alternatives	\$	880	0.6	0
512	Lawrence Loop Shared Use Path - Peterson Rd to Michigan St	Transportation Alternatives	\$	1,675	0.61	0
513	Lawrence Safe Routes to School TA Phase 2 (2021)	Safe Routes to School	\$	560	0	0.9
514	Naismith Drive Mobility Enhancement	Bicyle and Pedestrian	\$	412	0.25	0.25
*Tota	al project cost includes project phases outside of the TIP years (2021-24)	Totals	\$	31,368	2.65	1.65

**Project 513 has multiple locations throughout Lawrence

These projects are shown in Figure 13 and Figure 14 in relation to the EJ zones and in Figure 15 and Figure 16 overlaid with the Transportation Disadvantaged Populations.

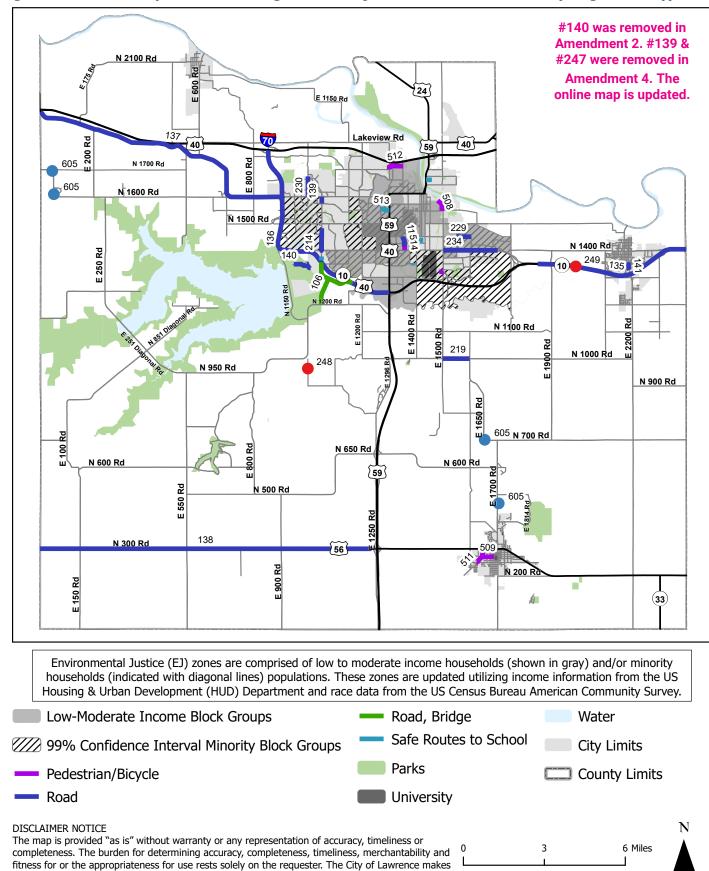


Figure 13: MPO Fiscally Constrained Programmed Projects in Relation to EJ Zones (Douglas County)

Date Exported: 8/24/2020 Source: 2018 ACS 5-yr Est. & CDBG Income Produced: Lawrence-Douglas County MPO

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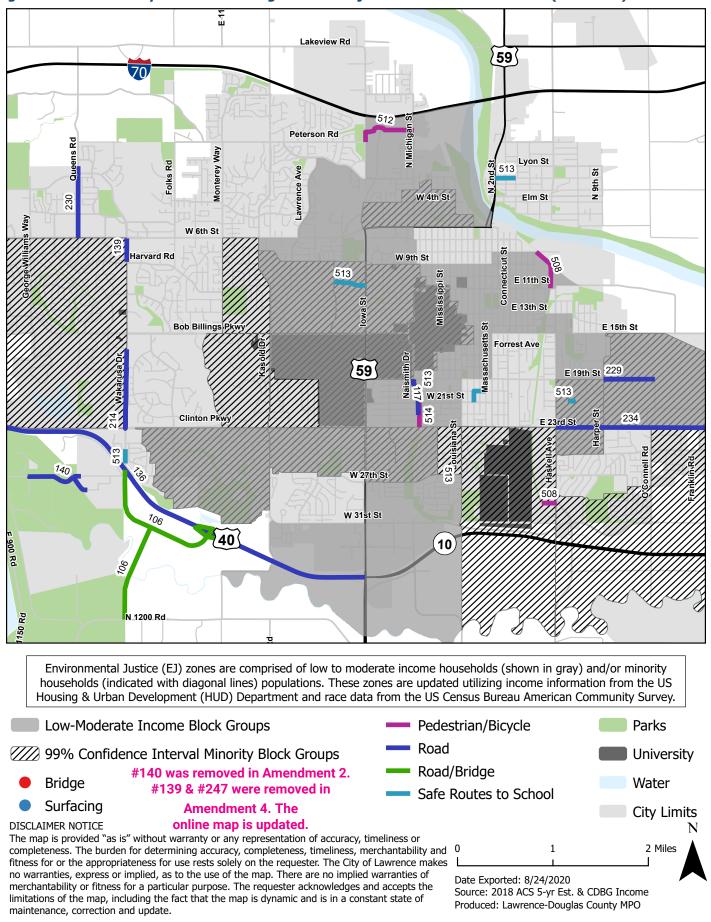
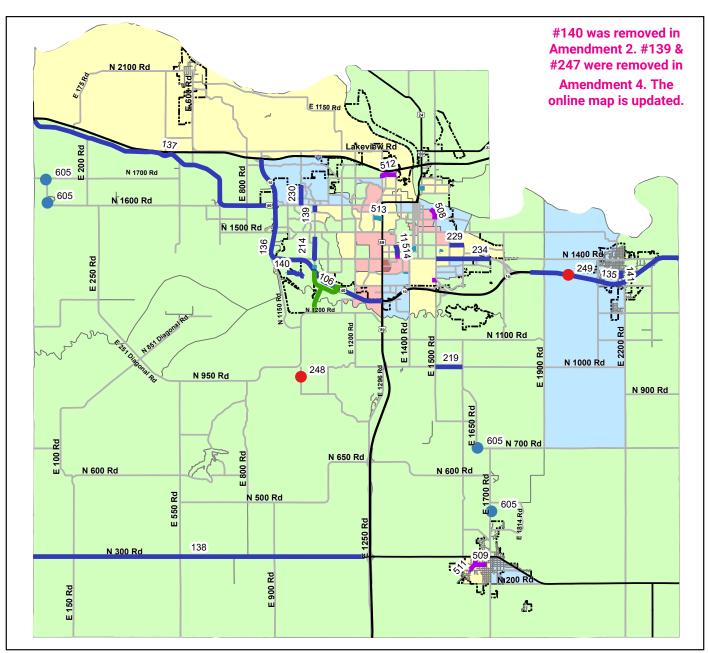


Figure 14: MPO Fiscally Constrained Programmed Projects in Relation to EJ Zones (Lawrence)





Transportation Disadvantaged Population scoring is comprised of US Census Bureau American Community Survey (ACS) data and Community Development Block Group (CDBG) income data. 2018 ACS data includes: people who have a disability, people who have less than a high school education, minorities, single parent households, zero vehicle households, and population under 18 and over 65. Higher points indicate a greater deviation from the regional average.



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6 Miles

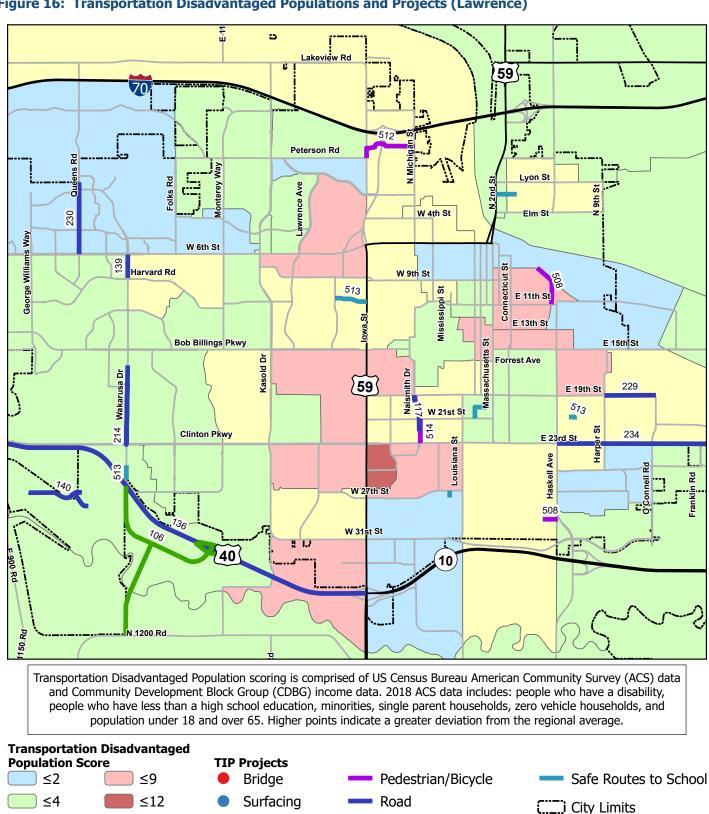


Figure 16: Transportation Disadvantaged Populations and Projects (Lawrence)

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Date Exported: 8/24/2020 Source: 2018 ACS 5-yr Est. & CDBG Income Produced: Lawrence-Douglas County MPO #247 were removed in

0.75

1.5 Miles

Amendment 4. The online map is updated.

Road, Bridge

Figure 15 and Figure 16 display the Transportation Disadvantaged Populations and TIP projects, which are shown in Table 24. The block groups in dark red have the highest transportation disadvantage score. The table also lists if the project is a MPO identified EJ zone, if there are bicycle and pedestrian elements, and the total score.

Table 24: TIP Pro	ojects and Transpo	rtation Disadvantaged	I Populations Scoring
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# Name	Project Type	ln EJ Zone	Bike/Ped. Element in Project	Total Score	Disability	Education	Minority	Single Parent	Zero Vehicle	< 18	65+	Low-Mod. Income
106 Wakarusa Drive Extension*	Road, Bridge	No	No	3	0	1	1	0	0	1	0	0
117 Naismith Drive Reconstruction: 19th St. to 23rd St.*	Road	Yes	Yes	6	0	1	1	1	1	0	0	2
135 K-10: West of E1900 East to DG/JO County Line Surfacing*	Road	No	No	2	0	0	1	0	0	1	0	0
136 K-10: West Leg Surfacing*	Road	Yes	No	3	1	1	0	0	0	0	1	0
137 US-40 in Douglas County (1R Project)	Road	No	No	3	1	1	0	0	0	0	1	0
138 US-56 in Douglas County (1R Project)*	Road	No	No	4	1	1	0	0	0	1	1	0
141 Church Street Improvements: 15th St. to 14th St.*	Road	No	Yes	4	1	1	0	1	0	1	0	0
214 Wakarusa Drive Reconstruction - Research Pkwy. to Clinton Pkwy.*	Road	Yes	Yes	4	0	1	1	0	0	1	1	0
219 Route 458 Improvements, E 1500 Rd. to E 1600 Rd.	Road	No	Yes	4	1	1	0	0	0	1	1	0
229 19th Street Reconstruction, O'Connell Rd. to Harper St.	Road	Yes	Yes	6	1	0	1	1	1	1	0	1
230 Queens Road: 6th St. to North City Limits	Road	No	Yes	2	0	0	0	0	0	1	1	0
234 23rd Street Reconstruction, Haskell Ave. to East City Limits*	Road	Yes	Yes	6	1	0	1	1	1	1	0	1
248 Bridge 0964-1000 Replacement	Bridge	No	No	3	1	0	0	0	0	1	1	0
249 Repair Bridge #071 on K-10 in Douglas County	Bridge	No	No	2	0	0	1	0	0	1	0	0
508 Lawrence Loop Shared-Use Paths - 8th St. to 11th St. & 29th St.*	Pedestrian/Bicycle	Yes	Yes	9	1	1	1	З	1	0	0	2
509 West Baldwin Pedestrian/Bike Connectivity Project	Pedestrian/Bicycle	No	Yes	5	1	0	0	1	1	1	1	0
511 West Baldwin Pedestrian/Bike Connectivity Project Phase 2 & 3	Pedestrian/Bicycle	No	Yes	5	1	0	0	1	1	1	1	0
512 Lawrence Loop Shared Use Path - Peterson Rd. to Michigan St.	Pedestrian/Bicycle	Yes	Yes	5	0	0	0	2	0	1	0	2
513 Lawrence Safe Routes to School TA Phase 2 (2021)*	Safe Routes to School	Yes	Yes	6	0	0	1	2	0	1	0	2
514 Naismith Drive Mobility Enhancement*	Pedestrian/Bicycle	Yes	Yes	5	0	1	0	1	1	0	0	2
605 DGCO: High Friction Surface Treatment*	Safety	No	No	3	1	1	0	0	0	0	1	0

Source: 2018 American Community Survey 5-year Estimates and CDBG income. Points were assigned based on the regional average or 20% higher than the regional average for 1 point (shown in green). If the block group was more than 20% of the regional average it received 2 points (shown in orange) and if it was more than 40% of the regional average 3 points were assigned (shown in yellow). If the block group was not higher than the average than zero points were assigned and it is shown in gray.

However, 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 25, 18% of the miles of road centerline are located in the EJ zone, while the EJ comprises 6% of the total square miles for the County. Further, the EJ zone has a higher per capita spending on TIP projects compared to the total county and 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	1,448	1,189	259	18%
Square Miles	475	444	31	6%
Per Capita Spending	\$1.46	\$0.93	\$2.09	37%
Population	134,917	62,571	72,346	54%

Table 25: EJ Zone Statistics v. Douglas County

Source: City of Lawrence GIS, Plan 2040 Population Model, FFY21 TIP Projects.

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.¹ 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 people who have access within a ¼ mile to the bikeway network (bicycle boulevard, bike lane, protected bike lanes, shared use path). The original data was gathered in 2017, which is before the FFY2019 TIP was developed. The 2019 data was collected in the summer of 2019. Therefore, projects included in the FFY2019 TIP contributed to increasing access in Unincorporated Douglas County, Baldwin City, and Eudora (shown in Figure 17). The EJ zone was updated with newer data between 2017 and 2019 and the methodology for collecting the data was slightly different, which is why the Lawrence numbers decreased. Overall access to the bicycle network is lower in EJ areas than non EJ areas. This speaks to the need to prioritize areas where transportation choices and access are critical links to opportunity and quality of life. There are nine (9) projects in the FFY2021 TIP which will add to the bicycle and pedestrian networks thereby increasing access. At least 2.9 miles of new bikeway will be constructed in the EJ zone.

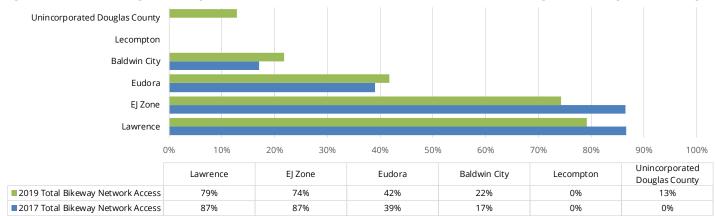


Figure 17: Percentage of People who have Access within 1/4 mile to the Bikeway Network (T2040 PM1)

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

Access the National Academy of Sciences - Transportation Communities in Action Pathways to Health Equity brief at: https://www.nap.edu/resource/24624/11062017_transportation_sector_brief.pdf

Another measure to assess access to bicycle and pedestrian facilities is Transportation 2040 Performance Measure #2 (Percentage of public streets with sidewalks on at least one side). Again the original data was collected in 2017 (as shown in Figure 18). Thus projects in the FFY2019 TIP contributed to the increase in the number of streets with sidewalk on at least one side of the street in Lawrence, the EJ zone, and Eudora. Overall access to the pedestrian network is lower 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 nine (9) projects in the FFY2021 TIP which will add to the bicycle and pedestrian networks thereby increasing access. At least 1.65 miles of new sidewalks 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.

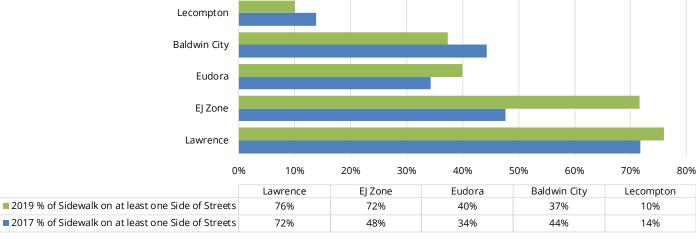


Figure 18: Percentage of Public Streets with at Least Sidewalk on One Side of Streets (T2040 PM2)

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

The Center for Neighborhood Technology's Total Driving Costs tool measures the costs of car ownership and use for jurisdictions.¹ 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 average household's income. Table 26 displays the 2017 update. (The Center for Neighborhood Technology plans to update their tool with newer data, but they are dependant on grant funding to do so.) As shown, all MPO jurisdictions have annual transportation costs over the 15% income threshold. This is a barrier to mobility and access. While the projects in the TIP do not impact fuel prices, the access to multi-modal transportation networks are fundamental to transportation access and choices, which can lessen the burden on transportation costs.

1 Access the Center for Neighborhood Technology's Total Driving Costs tool at: <u>https://htaindex.cnt.org/total-driving-costs/</u> FFY2021 TIP

Table 26: Average Cost of Transportation per Household (T2040 PM22)

	To	tal Annual	Annual Transportation Costs %
	Transp	ortation Costs	Over Affordable
Lawrence	\$	11,728	153%
Eudora	\$	13,649	179%
Baldwin City	\$	13,806	181%
Lecompton	\$	15,344	201%
Douglas County	\$	12,475	163%

Note: Annual Household Income: \$50,939

15% of Income for Transportation = Affordable: \$7,641

Transportation costs are considered affordable if they are 15% or less of household income; This calculation used gas priced at \$2.50 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

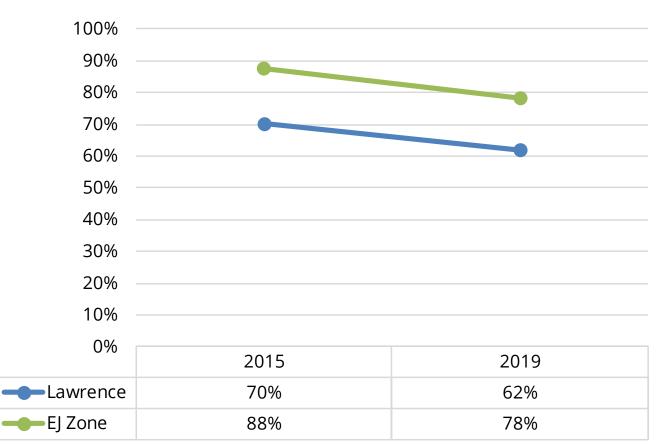
Another consideration is safety. Both vehicle and non-motorized (bicycle riders and pedestrian) crashes between 2017 and 2019 were mapped. A heat map showing the crashes and the number of crashes near TIP projects is found in Figure 7 (in the Performance Measure Chapter). There were twenty-five (25) crashes between 2017-2019 near the TIP project locations.

Analysis of Fixed Route Transit TIP Projects

Lawrence Transit & KU on Wheels 2020-2021 fixed routes are shown on Figure 21. Seventeen (17) or 81% 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, there is uncertainly surrounding the KU on Wheels service due to required funding cuts from the COVID-19 pandemic and the reduction of inperson classes. \$ 1 million of operation funding was cut per year from the 2021 and 2022 budget; therefore, KU on Wheels service maybe be reduced. Route information can be accessed at www. lawrencetransit.org/routes. 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 people with access within a 1/4 mile to a bus stop (Figure 19). The original data was gathered in 2017, which is before the FFY2019 TIP was developed. The 2019 data was collected in the summer of 2019. The EJ zone was updated with newer data between 2017 and 2019 and the methodology for collecting the data was slightly different, which is why the Lawrence numbers decreased. Overall access to bus stops in EJ areas in comparison to Lawrence as a whole stayed fairly consistent between 2017 and 2019. Although the overall access declined. This indicates priority needs to be placed on providing access opportunities to bus stops. The Naismith Drive Mobility Enhancement (# 415) 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: The EJ Zone changes as newer socio-economic data is available; therefore, the EJ Zone changed between 2015 and 2019.

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 20). 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 the 2020 population estimates in Figure 21).

Further, maps were created to determine the percentage of people who live 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 22, approximately 56,834 people or 79% of people who live within the EJ zones are within ¼ mile of a transit route. A ¼ mile is generally the distance people are comfortable walking. Thus, 79% of people who live within EJ zones have easy to access transit service, thereby expanding their mobility.

The red color within the Transportation Disadvantaged Population map (Figure 23) indicates the population with the highest Transportation Disadvantaged Population meaning these areas should be prioritized for improvements to expand the population's mobility and access to transportation choices. Transit service is offered in many of the higher concentrated zero vehicle households and EJ zones. This provides more mobility and promotes movement of residents throughout Lawrence.

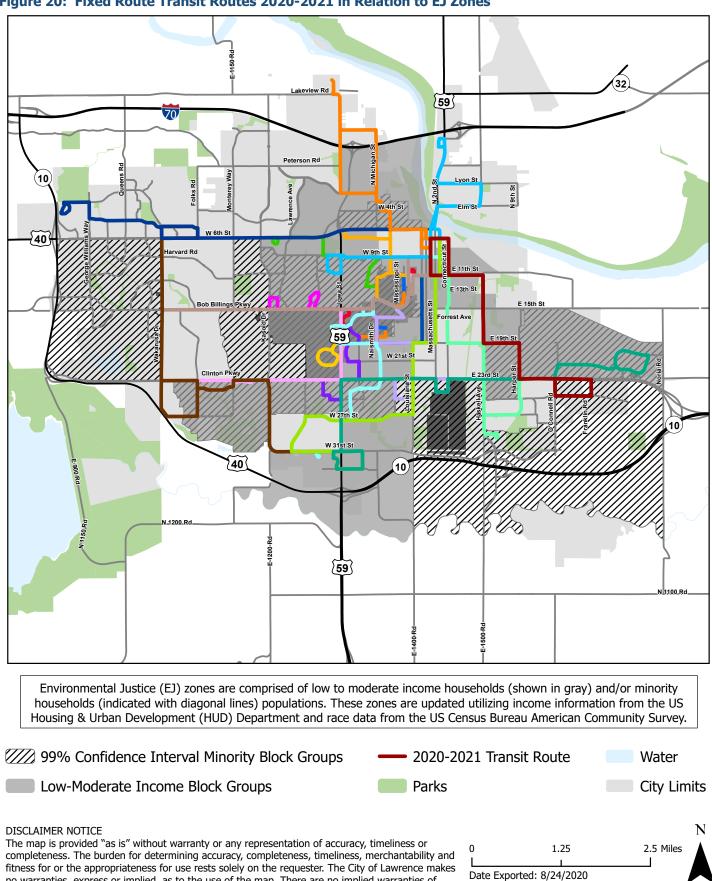


Figure 20: Fixed Route Transit Routes 2020-2021 in Relation to EJ Zones

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Income

Source: Lawrence Transit, 2018 ACS 5-yr Est. & CDBG

Produced: Lawrence-Douglas County MPO

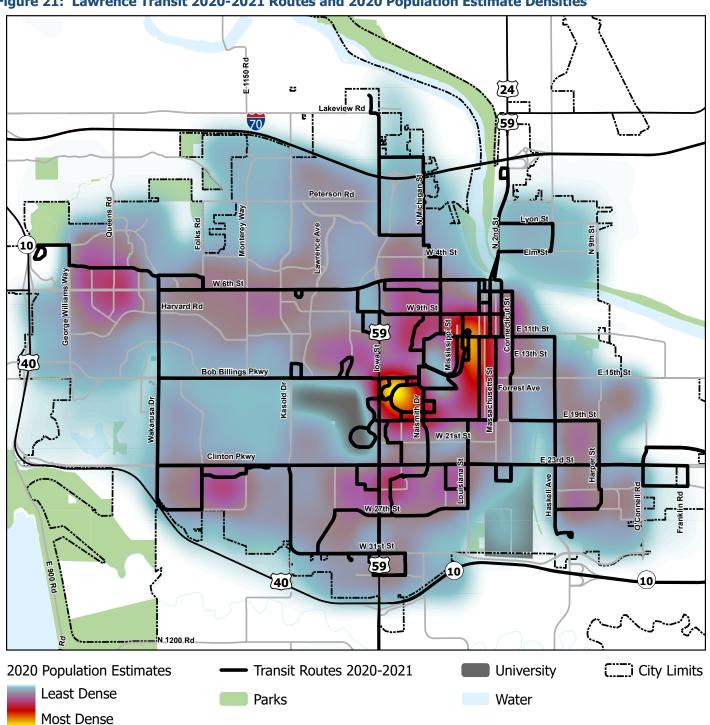
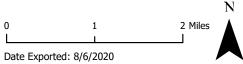


Figure 21: Lawrence Transit 2020-2021 Routes and 2020 Population Estimate Densities

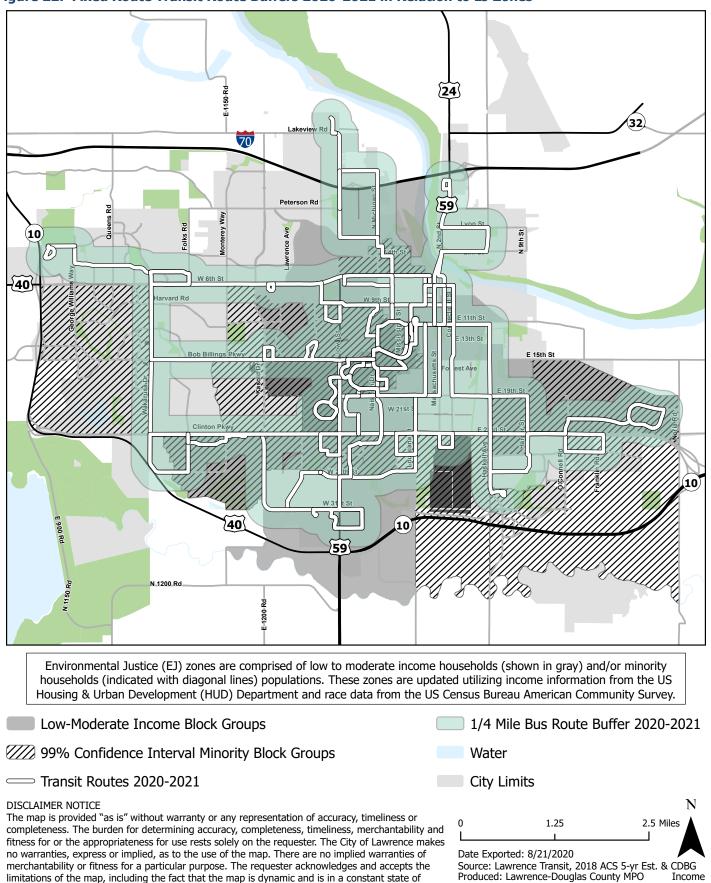
DISCLAIMER NOTICE

The map is provided "as is" without warranty or any representation of accuracy, timeliness or completeness. The burden for determining accuracy, completeness, timeliness, merchantability and fitness for or the appropriateness for use rests solely on the requester. The City of Lawrence makes no warranties, express or implied, as to the use of the map. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledges and accepts the limitations of the map, including the fact that the map is dynamic and is in a constant state of maintenance, correction and update.



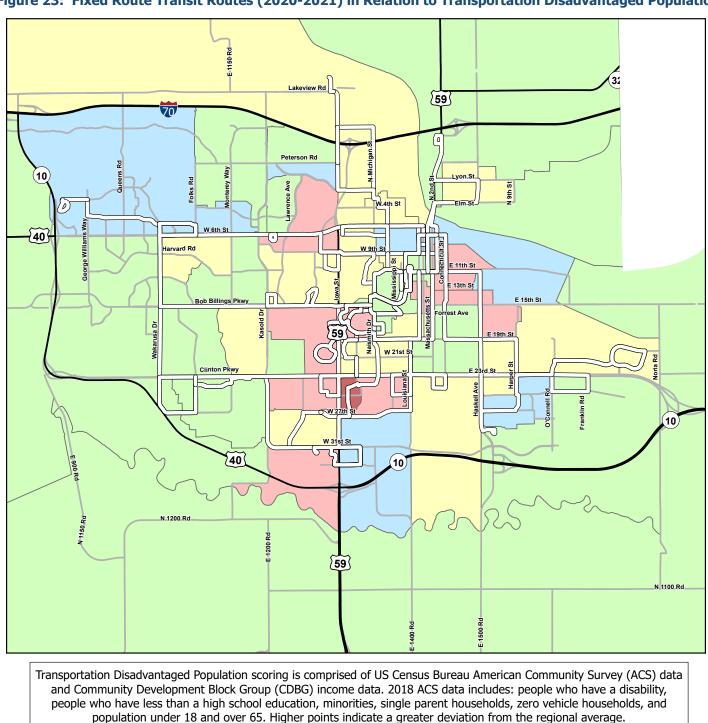
Source: Lawrence Transit & Plan 2040 Population Est. Produced: Lawrence-Douglas County MPO



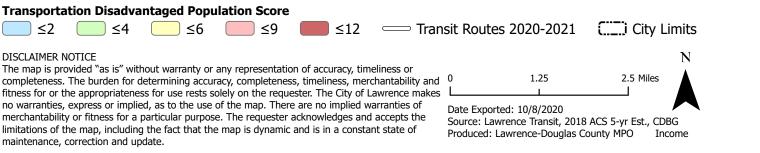


FFY2021 TIP

maintenance, correction and update.







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 analysed 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.

С

PROGRESS ON PREVIOUS TIP PROJECTS APPENDIX C

Major Projects from the Previous 2019-2022 TIP

Using the definitions listed in Appendix B the following major projects from the previous 2019-2022 TIP were implemented between the start of 2019 and the approval date for this new 2021-2024 TIP. This current TIP covers 2021 to 2024 so some 2021 projects could be listed in both the previous and current TIP documents.

Table C-1: Completed Projects

TIP # Project Type	Project Name	Project Sponsor	Location	Description	Year	Cost (in 1,000s)
				Construction of a 2 way left		
				turn lane on 23rd St from		
	23rd St 2 way left turn		23rd St: Louisiana St	Louisiana St to Massachusetts		
110 Road	lane	KDOT	to Massachusetts St	St	2019 :	\$ 1,800
	23rd St Resurfacing:		23rd St Resurfacing:	Resurfacing 23rd St from Iowa		
111 Road	Iowa St to Ousdahl Rd	KDOT	lowa St to Ousdahl Rd	•	2019	\$ 300
111 10000	Lawrence CCLIP, US-	RECT		Stite ousdamst.	2013 .	¢ 300
	40/Tennessee St		US-40/Tennesse St.	Construct new right turn lane		
113 Road	Intersection	KDOT	Intersection	eastbound to southbound	2019	492
	Intersection		Shawnee/Douglas		2015	γ 4 52
	US-40 Mill/Overlay,		County Line to 0.15	0.5 Inch Cold Mill, 1.5 Inch		
	SN/DG CO to 0.15 miles		Miles west of County	Overlay and Edge Wedge Rock		
134 Road	W of E 50th Rd	KDOT	Road E50th Road	on Shoulders	2019	5 148
134 1080	South Lawrence	RDOT	SO Junct US 59/K10 E	on shoulders	2019 .	p 140
200 Road	Trafficway	KDOT	to K10	Linked to Project K-8392-01.	2016	\$ 186,100
200 11000	Traineway	RDOT		Reconstruction of street will	2010 -	p 100,100
				include subgrade treatment,		
				surfacing, storm sewer,		
	19th St, Naismth to		19th St from Iowa St	geometric improvements and		
203 Road	Iowa Reconstruction	Lawrence	to Naismith Dr	multimodal facilities.	2017-2019	\$ 3,775
205 10000	10Wa Reconstruction	Lawrence		Upgrade signal with	2017-2013	
				interconnectedflashing		
				beacons for US-40/K-10.		
				Determine que locations for 4		
				DMS boards. 1) btwn Kasold &		
			4 Dynamic Message	US-59 WB, 2) btwn Bob Billings		
	Intersection of US-			& Clinton Pkwy, 3) east of US-		
	40/K019 at			59 for WB traffic, and 4) btwn		
	Wakarusa/27th St		& Wakarusa/27th St	Clinton Pkwy & Wakarusa/27th		
302 Intersection	Signal	KDOT	Signal	EB	2019-2020	527
502 menseetion	Independence, Inc		5161101		2019 2020	, 32,
	5311, local, state					
Transit/	operating and capital					
401 Paratransit	for 2019 and 2020	Independence Inc.	Lawrence	Operating and Capital	2019-2021	\$ 476
		Bert Nash		- Parating and capital	2019 2021	
		Community				
Transit/	Bert Nash, FTA 5310	Mental Health		Purchase a Ramp Mini-Van		
415 Paratransit	Capital Funds	Center	Lawrence	(\$40) and a Full Size Van (\$57).	2019	\$ 97
	capitari anas	Center	Lamence		2017 .	- 57

Table C-1: Completed Projects (Continued)

TIP # Project Type	Project Name	Project Sponsor	Location	Description	Year	Cost 1,000s)
Transportation	19th & lowa St		19th St & lowa St (US-			
505 Alternatives	Ped/Bike Underpass	Lawrence	59) Intersection	Pedestrian/bicycle underpass	2018 \$	3,169
				Replace nine narrow culverts		
			Rte 458 E 1800 Rd. to E	and remove roadside trees to		
601 Safety	Route 458 HRRR	Douglas County	2000 Rd	improve roadside safety.	2016-2018 \$	1,293
				Safety study of county road		
				network (major collectors) to		
				identify needed safety		
602 Safety	Local Road Safety Plan	Douglas County	County road network	improvements.	2019 \$	40
	Massachusetts St, 11th					
	to 14th St Reconfigure		Massachusetts St:	Reconfigure lanes for center		
604 Safety	Lanes	Lawrence	11th St to 14th St	turn lane and bike amenities.	2018 \$	164
			Study the proposed			
	Traffic Study of KTEN		KTEN Crossing	Study the proposed KTEN		
	Crossing Entrance and		Entrance and US-59	Crossing Entrance and US-59		
704 Road	US-59	KDOT	Intersection	Intersection.	2019 \$	25
				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 &		
	K-10 (US-40) & 27th			overlay north and south		
	St/Wakarusa Dr			intersection legs & reconstruct		
	Intersection		K-10 and 27th	sidewalk crossing. Permanent		
705 Other	Improvements	KDOT	St/Wakarusa	seeding & signage.	2019-2020 \$	576
				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		
	K-10 (US-40) & 27th			intersection legs & reconstruct		
	St/Waka. Intersection		K-10 and 27th	sidewalk crossing. Permanent		
705 Other	Improvements	KDOT	St/Wakarusa	seeding & signage.	2019-2020 \$	1,210

Major Projects from the 2019-2022 TIP That Were Significantly Delayed

Table C-2: Significantly Delayed Projects

TIP	Project # Type	Project Name	Project Sponsor	Location	on Description		Currently Programmed Year in the TIP		Cost 1,000s)
					New road construction to extend				
				Rte 458 to	Wakarusa Drive from planned K-10				
				planned K-10	interchange to Route 458. Includes new				
		Wakarusa Drive	Douglas	interchange at	bridge over Wakarusa River. *Alignment				
	106 Road/ Bridge	Extension	County	Wakarusa Dr	not finalized	2018-2021	2021-2023	\$	6,300
	107 Deed	Kasold Reconstruction,		Kasold from 22nd St to	Reconstruction of street including pavement, storm sewer, sidewalks,	2017 2019	2010 2020	¢	2 (00
	107 Road	Clinton Pkwy to HyVee	Lawrence	Clinton Pkwy	bicycle facilities, and median	2017-2018	2019-2020	\$	2,600
					Add 2 lanes to existing 2 lanes for a 4 lane freeway section. This will include reconstruction of existing interchange @ KTA (I-70). A mainline ORT (open road				
	Road/	SLT/K-10 West Leg in		10/US-40	tolling) toll plaza on K-10 is included in				
	236 Interchange	Douglas County	KDOT	Junction	reconstruction of interchange @ I-70.	2016	2019	\$	4,200
		US-56 Improvements:			Improvements to US-56 - Realign				
		Eisenhower		Eisenhower St to	Eisenhower and construct 3 lane US-56				
	243 Road	St to 1st St	KDOT	1st St	in Baldwin City.	2017	2020	\$	1,675

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.

Table D-1: Obligated Projects From FFY2020

Fransit - Operating Funds	Operating and Preventative Maintenance activities	5307	\$2,532	\$81	\$2,451	\$2,451
Transit - Operating Funds	Operating and Preventative Maintenance activities	5307	\$2,523	\$1,673	\$2,523	\$0
Fransit - Operating Funds	Operating and Preventative Maintenance activities	5307	\$2,135	\$200	\$2,135	\$0
Fransit - Operating Funds	Operating and Preventative Maintenance activities	5307	\$101	\$200	\$2,107	\$0
Fransit - Operating Funds	Operating and Preventative Maintenance activities	5307	\$100	\$100	\$2,122	\$0
Fransit - Operating Funds	Operating and Preventative Maintenance activities	5307 CARES Act	Req \$1,921 ACTUAL \$2,003	\$2,003	\$7,126	\$5.123
	Procurement of five battery electric buses to replace five diesel	CARES AC	ψ2,000	φ2,005	\$7,120	φ0,120
Fransit Electric Buses	powered buses, associated charging infrastructure, and project management.	5339	\$3,756	\$100	\$3,756	\$3,656
ource Center for Douglas County, Inc.	Purchase a Ramp Accessible Minivan	5310		\$53	\$53	\$0
	Non-Transit Projects			Cost in \$1	,000's	
Project Name/Location	Project Description	Federal Funding Source	Federal Funds Requested in TIP	Federal Funds Obligated in FFY 2021	Federal Funds Obligated To Date	Federal Funds Remaining
HRRR, from E1800 Rd to E 2000 Rd	Replace nine narrow culverts and remove roadside trees to improve roadside safety	HSIP	\$753	\$35	\$788	(\$35)
uglas County (1R Project)	Surfacing	NHPP	\$992	\$916	\$916	\$76
uglas County (1R Project) ouglas County (1R Project)	Surfacing	NHPP STP	\$3,010 \$1,425	\$2,663 \$0	\$2,663	\$347
ouglas County (1R Project)	Surfacing	STP	\$1,498	\$1,506	\$1,506	(\$8)
19th & Iowa Ped/Bike Underpass	Pedestrian/bicycle underpass	TA	\$1,868	\$1	\$1,869	\$1
.oop: from 8th St to 11th St and 29th St	Design and construction of 10' shareduse path	ТА	\$480	\$480	\$480	\$0
Safe Routes to School Phase 2, muliple locations e near public schools	New sidewalk construction along designated Safe Routes to School. Driveway and sidewalk ramp construction will be included for ADA compliance.	ТА	\$394	\$354	\$354	\$0
	Remove and replace pavement markings - child project of a					
Markings on US-24 in Douglas County provement at K-10 & E.1900 Rd in Douglas Co	STIP project Upgrade interchange lighting - child project of a STIP project	HSIP HSIP	STIP STIP	\$134 \$16	\$134 \$16	\$0 \$0
provement at US24/US40/US59 near Lawrence	Upgrade interchange lighting - child project of a STIP project	HSIP	STIP	\$13	\$13	\$0
entive Maintenance, Program Administration, & Security and Capital Jes	5317 - FTA Section 5317 - New Freedom 5339 - FTA Section 5339 - Bus and Bus Faci BR - Bridge Replacement Funds HSIP- Highwy Safety Improvement Program	lities	STP - Surface SRTS - Safe	onal Highway Performance P e Transportation Program Routes to School sportation Enhancement/Tra	-	

TIP PUBLIC PARTICIPATION APPENDIX E

Figure E-1: TIP Development Timeline

Task	Date	May	June	July	August	September	October	November
Discuss TIP development with KDOT, FHWA, & FTA	Mid-May							
Implement updates (TIP form and database)	Prior to 6/2/20							
Discuss at TAC	6/2/20							
TIP project submission deadline to MPO staff	6/12/20							
Develop new TIP	6/12/20 - 8/7/20							
Send draft to KDOT, FHWA, and FTA for review	8/7/20 - 8/21/20							
30 day public comment period*	8/26/20 - 9/25/20							
Incorporate public comments	9/28/20							
	TAC - 10/6/20							
TAC/MPO Policy Board consideration of incorporating public comments into final TIP	MPO - 10/15/20							
Pending Policy Board approval post online and send to KDOT, FHWA, and FTA	10/15/20							
Inclusion in Kansas STIP	November							

* Public participation process includes: Newspaper advertisement, email to subscription list, place document online and at public locations - Baldwin City Public Library, Eudora City Hall, Lawrence Public Library, Lecompton City Hall, and MPO Office, send to TAC and Policy Board for review

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	8/26/2020 to 9/25/2021	0	October 16, 2020	October 15, 2020
Ammendment 1	1/7/2021 to 1/22/2021	0	Febrary 2, 2021	February 18, 2020
Amendment 2	3/16/2021 to 3/31/2021	0	April 6, 2021	April 15, 2021
Amendment 3	7/16/2021 to 7/31/2021	0	August 3, 2021	August 19, 2021
Amendment 4	9/10/2021 to 9/25/2021	0	October 5, 2021	October 21, 2021
Amendment 5	3/10/2022 to 3/25/2022	0	April 5, 2022	April 21, 2022
Amendment 6	5/13/2022 to 5/28/2022	0	June 7, 2022	June 16, 2022

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

F

TRANSPORTATION DISADVANTAGED POPULATION METHODOLOGY APPENDIX F

The Environmental Justice section of this TIP included additional analysis of the transportation disadvantaged populations on page 35. The table below details the source of the data and the point thresholds.

Table F-1: American Community Survey Data Sources for Transportation Disadvantaged Population

Category	Table ID	Measure	Table Name	Universe	Source			
		Households with a person who	Receipt of food stamps/snap in					
Disability	B22010	has a disability (Food stamp or	the past 12 months by disability	Households				
		not)	status for households					
Education	B15003	Less than high school diploma	Educational attainment for the	25 Yrs and				
Luucation	B13003		population 25 years and over	Over				
Minority B02001		Non-white, excluding 2 or more	Race	Total	5-yr ACS			
winnonicy	D02001	races	Nacc	Population	S yr Acs			
Single		Male householder without wife	Own children under 18 years by	Own Children	2014 - 2018			
-	B09002	19002 present, female householder			2011 2010			
Parent		without husband present	family type and age	under 18 Yrs				
Zero	B25044	Households without vehicles	Tenure by vehicles available	Occupied				
Vehicles	DZ3044	Households without vehicles	renure by venicles available	Housing Units				
Youth &	B01001	65+ and <18	Soy by ago	Total				
Seniors	BUIUUI		Sex by age	Population				
Low & Community Development Block Group (CDBG) income								
Moderate					2011 - 2015 &			
Income https://www.hudexchange.info/programs/acs-low-mod-summary-data								

Source: US Census, 2018-2014 5-Year American Community Survey (ACS) & CDBG Income

Table F-2: Point Thresholds

Торіс	Regional Average	1 Point	2 Points	3 Points
Person who has a disability	20.2%	20.2% to 40.1%	40.2% to 60.1%	Greater than or equal to 60.2%
Less than high school diploma	4.5%	4.5% to 24.4%	24.5% to 44.4%	Greater than or equal to 44.5%
Minority	12.9%	12.9% to 32.8%	32.9% to 52.8%	Greater than or equal to 52.9%
Single parent household	24.3%	24.3% to 44.2%	44.3% to 64.2%	Greater than or equal to 64.3%
Households without vehicles	5.8%	5.8% to 25.7%	25.8% to 45.7%	Greater than or equal to 45.8%
Youth (under 18)	18.6%	18.6% to 38.5%	38.6% to 58.5%	Greater than or equal to 58.6%
Senior citizens (65+)	11.3%	11.3% to 31.2%	31.3% to 51.2%	Greater than or equal to 51.3%
Low-moderate CDBG income		51.0% to 62.4%	62.5% to 78.9%	Greater than or equal to 79.0%

Source: 2018 American Community Survey 5-year Estimates and CDBG Income. Points were assigned based on the percentage of each measure per block group. Then one point was assigned if the block group was equal to or 20 percent higher than the regional average. Two points were attributed if the block group was 20 percent to 40 percent of the regional average. And three points were assigned if the block group was greater than 40 percent higher than the regional average. Low-moderate income data is the Community Development Block Grant (CDBG) identified low-moderate income areas. A block group is low-moderate income if the low-moderate income percentage for the block group is 51.0%. The 27 block groups that are considered low-moderate income were split into 3 groups of 9 and the highest percentage of low-moderate income were assigned three points, then two points, and lastly one point.

To view information about the Lawrence specific analysis visit <u>https://lawrenceks.org/mpo/</u> <u>transportation-disadvantaged</u>.

Summary of TIP Changes APPENDIX G G

FFY 2021 - 2024 L-DC MPO Transportation Improvement Program (TIP)

Revision Summary: Administrative Revision 4

TIP #:	KDOT #:	Project Name:	Project Sponsor:	Action:	Revision Description:	Total Project Cost:
509	TE-0472-02	West Baldwin Pedestrian/Bike Connectivity Project	Baldwin City	Revision	TIP #511 was incorporated into this project.	\$2,791
511	TE-0472-02	West Baldwin Pedestrian/ Bike Connectivity Project Phase 2 & 3	Baldwin City	Revision	Combined with TIP # 509	\$2,791

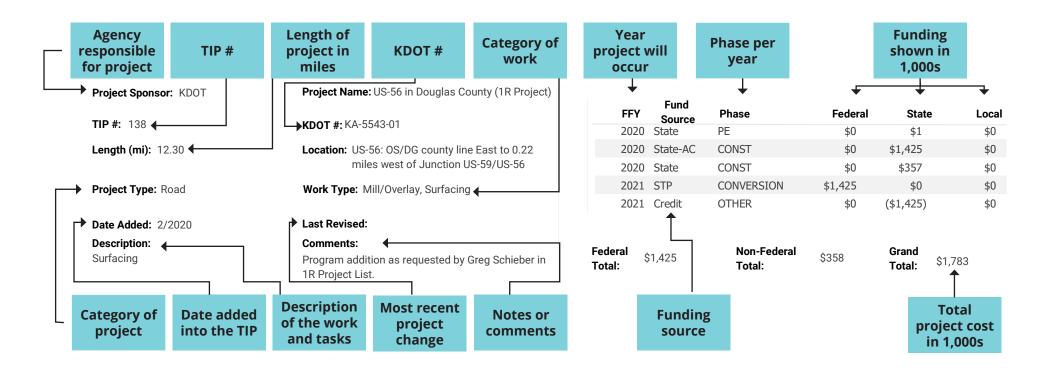
Public Comment Period: n/a MPO Policy Board Approval: Posted June 28, 2022

Costs in 1,000s

* 55 = =

TIP PROJECT LISTINGS APPENDIX H

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 	- Planning - Reconstruction - Redeck Bridge - Safety - Seeding - Signage
October 1 - September 30	- Mill/Overlay - Operating - Other - Pedestrian & Bicycle	- Signal - Special Work - Surfacing - Vehicle Replacement

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

Phase:

400 – Transit/Paratransit

200 – Bridges

300 - ITS

CAPITAL - Transit Capital 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)

600 - Safety

700 - Other - studies

Project Type: Classified into categories: - Bridge - Enhancement

- ITS

- Road

(SRTS) - Interchange - Safety - Intersection

- Traffic Signal - Transit/Paratransit



Project Sponsor: Do	ouglas County/Lawre	Project Wakarusa Drive Extension Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 106 KDO	DT #:	Name.	2022		PE	\$0	\$0	\$500
Length (mi): 2.00		Location: Clinton Parkway to N 1200 Rd	2022	Local - LAW	PE	\$0	\$0	\$166
			2022	Local - LAW	ROW	\$0	\$0	\$167
			2022	Local - LAW	UTIL	\$0	\$0	\$167
Project Type: Road, B	Bridge	Work Type: Grading, Bridge, Surfacing	2023	Local	PE	\$0	\$0	\$250
Date Added:	Last Revised:	Revison History: FFY19 A5, FFY21 A3, FFY21 A4	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 construction Wakarusa Drive from p		Construction contingent on KDOT construction of	2024	Local - LAW	CONST	\$0	\$0	\$6,500
interchange to Route 4	-	K-10 interchange at Wakarusa Drive. Changed TIP # from 100 to 106 in 2/2017.	2025	Local	CONST	\$0	\$0	\$4,000
not finalized		Douglas County & Lawrence will partner on project sharing design and construction costs 50/50.	Federal Total:	\$0	Non-Federal Total:	\$12,750	Grand Total:	\$12,750
	awrence	Project Kasold Drive Reconstruction: Clinton Pkwy Name: to HyVee	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 107 KDO	awrence DT #:	Name: to HyVee	2019	Source Local	PE	\$0	\$0	\$170
		-	2019	Source				
TIP #: 107 KDO Length (mi): 0.16		Name: to HyVee	2019	Source Local	PE	\$0	\$0	\$170
TIP #: 107 KDO		Name: to HyVee Location: Kasold from 22nd St to Clinton Pkwy	2019	Source Local	PE	\$0	\$0	\$170
TIP #: 107 KDO Length (mi): 0.16 Project Type: Road Date Added:	DT #: Last Revised: 8/2019 eet including er, sidewalks,	Name: to HyVee Location: Kasold from 22nd St to Clinton Pkwy Work Type: Reconstruction	2019	Source Local	PE	\$0	\$0	\$170



Project Sponsor:		Project Naismith Drive Reconstruction: 19th St. to Name: 23rd St.	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 117 K	DOT #:		2023	Local	PE	\$0	\$0	\$300
Length (mi): 0.50		Location: 19th & Naismith to 23rd & Naismith	2024	Local	CONST	\$0	\$0	\$4,000
Project Type: Road	d	Work Type: Reconstruction, Pedestrian/Bicycle						
Date Added:	Last Revised:	Revison History:						
23rd st including ne	Vaismith from 19th to ew pavement, curb ewer, sidewalks and	Comments: 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:	\$4,300	Grand Total:	\$4,300
Project Sponsor:	KDOT	Project K-10: West of E1900 East to DG/JO County Name: Line Surfacing	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 135 K	DOT #: KA-5484-01	Name. Line Suracing	2019		PE	\$0	\$1	\$0
Length (mi): 5.80		Location: Beginning 0.48 miles West of E1900	2020	State-AC	CONST	\$0	\$992	\$0
		thence east to the Douglas/Johnson	2020	State	CONST	\$0	\$248	\$0
Project Type: Road	d	County line Work Type: Surfacing	2021	NHPP	CONVERSION	\$992	\$0	\$0
Project Type. Road	u	work rype. Surfacing	2021	Credit	OTHER	\$0	(\$992)	\$0
Date Added: 10/2019	Last Revised: 8/2020	Revison History:						
Description: Surfacing		Comments: The CONST Phase will utilize AC in the amount of \$992 K with conversion to NHPP in 2021.						
			Federal Total:	\$992	Non-Federal Total:	\$249	Grand Total:	\$1,241



Project Sponsor:	KDOT	Project K-10: West Leg Surfacing Name:	FFY	Fund Source	Phase	Federal	State	Local	
TIP #: 136	KDOT #: KA-5485-01	Nume.	2020		PE	\$0	\$1		\$0
Length (mi): 8.40		Location: Beginning at Junction I-70/KTA/K-10	2020	State-AC	CONST	\$0	\$3,010		\$0
		thence east to Junction K-10/US-40/US-	2020	State	CONST	\$0	\$755		\$0
		59	2021	NHPP	CONVERSION	\$3,010	\$0		\$0
Project Type: Roa	ad	Work Type: Surfacing	2021	Credit	OTHER	\$0	(\$3,010)		\$0
Date Added: 10/2019	Last Revised: 8/2020	Revison History:							
Description: Surfacing		Comments: The CONST Phase will utilize AC in the amount of \$3,010 K with conversion to NHPP in 2021.							
		This project is tied to project 705 (KA-3634-08) for letting purposes.							
			Federal Total:	\$3,010	Non-Federal Total:	\$756	Grand Total:	\$3,766	
Project Sponsor:	KDOT	Project US-40 in Douglas County (1R Project) Name:	FFY	Fund Source	Phase	Federal	State	Local	
TIP #: 137	KDOT #: KA-5542-01	Nume.	2020		PE	\$0	\$1		\$0
	1	Location: US-40: 0.15 miles East of the DG/SH	2020	State-AC	CONST	\$0	\$1,498		\$0
Length (mi): 10.9		county line east to Junction US-40/K-10		State	CONCT	40			\$0
Length (mi): 10.9°			2020	otate	CONST	\$0	\$375		- T -
				STP	CONVERSION	\$0 \$1,498	\$375 \$0		
	ad	Work Type: Mill/Overlay, Surfacing	2021						\$0 \$0
Project Type: Roa Date Added:	ad Last Revised: 10/2020		2021	STP	CONVERSION	\$1,498	\$0		\$0
Project Type: Roa Date Added: 2/2020	Last Revised:	Work Type: Mill/Overlay, Surfacing	2021	STP	CONVERSION	\$1,498	\$0		\$0
Project Type: Roa Date Added: 2/2020 Description:	Last Revised:	Work Type: Mill/Overlay, Surfacing Revison History:	2021	STP	CONVERSION	\$1,498	\$0		\$0
Length (mi): 10.9 ⁻⁷ Project Type: Roa Date Added: 2/2020 Description: Surfacing	Last Revised:	Work Type: Mill/Overlay, Surfacing Revison History: Comments: Program addition as requested by Greg Schieber in	2021	STP	CONVERSION	\$1,498	\$0		\$0



Project Sponsor: KDOT	Project US-56 in Douglas County (1R Project) Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 138 KDOT #: KA-5543-01		2020	State	PE	\$0	\$1	\$0
Length (mi): 12.30	Location: US-56: OS/DG county line East to 0.22	2020	State-AC	CONST	\$0	\$1,425	\$(
	miles west of Junction US-59/US-56	2020	State	CONST	\$0	\$357	\$(
Desired Transford	Wards Transis Mill (Overslave Overfassion)	2021	STP	CONVERSION	\$1,425	\$0	\$1
Project Type: Road	Work Type: Mill/Overlay, Surfacing	2021	Credit	OTHER	\$0	(\$1,425)	\$(
Date Added:Last Revised:2/2020	Revison History:						
Description:	Comments:						
Surfacing	Program addition as requested by Greg Schieber in 1R Project List.						
	Conversion to STP in 2021.						
		Federal Total:	\$1,425	Non-Federal Total:	\$358	Grand Total:	\$1,783
Project Sponsor: Eudora	Project Church Street Improvements: 15th St. to Name: 14th St.	FFY	Fund Source	Phase	Federal	State	Local
		FFY 2021	Source	Phase CONST	Federal \$0	State \$1,249	
TIP #: 141 KDOT #: KA-5897-01	Name: 14th St. Location: Approximately 1,550 feet of	2021	Source				\$0
	Name: 14th St.	2021	Source State	CONST	\$0	\$1,249	Local \$0 \$673
TIP #: 141 KDOT #: KA-5897-01	Name: 14th St. Location: Approximately 1,550 feet of improvements to Church St. beginning	2021	Source State	CONST	\$0	\$1,249	\$0
TIP #: 141 KDOT #: KA-5897-01 Length (mi): 0.30 Project Type: Road Date Added: Last Revised:	 Name: 14th St. Location: Approximately 1,550 feet of improvements to Church St. beginning 600' south of the 15th St. intersection, Work Type: Access Management, Reconstruction, 	2021	Source State	CONST	\$0	\$1,249	\$(
TIP #: 141 KDOT #: KA-5897-01 Length (mi): 0.30 Project Type: Road Date Added: Last Revised: 10/2020	 Name: 14th St. Location: Approximately 1,550 feet of improvements to Church St. beginning 600' south of the 15th St. intersection, Work Type: Access Management, Reconstruction, Safety 	2021	Source State	CONST	\$0	\$1,249	\$(
TIP #: 141 KDOT #: KA-5897-01 Length (mi): 0.30 Project Type: Road	 Name: 14th St. Location: Approximately 1,550 feet of improvements to Church St. beginning 600' south of the 15th St. intersection, Work Type: Access Management, Reconstruction, Safety Revison History: 	2021	Source State	CONST	\$0	\$1,249	\$



Project Sponsor:		Project US-40/K-10 Interchange Improvement Name: (Diverging Diamond Interchange)	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 142 K	DOT #: KA-2841-02		2021	State	PE	\$0	\$268	\$(
Length (mi): 0.00		Location: US-40/K-10 Interchange Improvement	2021	State-AC	PE	\$0	\$1,073	\$(
		(DDI) in Lawrence	2022	State	ROW	\$0	\$402	\$(
			2022	State	UTIL	\$0	\$80	\$0
Project Type: Inter	rchange	Work Type: Reconstruction	2022	State-AC	UTIL	\$0	\$322	\$0
Date Added:	Last Revised:	Revison History: FFY21 A3, FFY21 A5, FFY21 A6	2023	State-AC	CONST	\$0	\$11,529	\$(
2/2021	6/2022		2023	State	CONST	\$0	\$2,882	\$(
Description:		Comments:	2025	Credit	OTHER	\$0	(\$12,923)	\$(
for the addition of s	ng Diamond ncludes bridge #088- sidewalk with barriers action down center of	PE Phase will utilize AC of \$1,073 with conversion to NHPP in 2025. The UTIL Phase will utilize AC of \$80 with conversion to NHPP in 2025. The CONST Phase will utilize AC of \$11,529 with conversion to NHPP in 2025.	2025	NHPP	CONVERSION	\$12,923	\$0	\$(
			Federal Total:	\$12,923	Non-Federal Total:	\$3,633	Grand Total:	\$16,556
Project Sponsor:		Project US-56 Reconstruction: US-56/US-59 Name: Junction east to 1600 Rd.	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 143 K	DOT #: KA-6015-01		2021		PE	\$0	\$251	\$(
Length (mi): 3.75		Location: US-56 in Douglas County: Beginning at	2021	State-AC	PE	\$0	\$1,003	\$(
		East Junction US-56/US-59 Ramps	2026	Credit	OTHER	\$0	(\$1,003)	\$(
Project Type: Road	d	thence East to 1600 Road Work Type: Reconstruction	2026	NHPP	CONVERSION	\$1,003	\$0	\$(
Date Added: 2/2021	Last Revised: 4/2022	Revison History: FFY21 A5						
Description:		Comments:						
roadway with 10 ft.	ction based on 44 ft. shoulders. Add eration 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						
warranted.		NHPP in 2026.						



Project Sponsor: Lawr	rence	Project South low Name: Project	a St. Traffic Signal Improvement	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 144 KDOT	#: KA-6350-01	Name. Project		2022		CONST	\$0	\$0	\$443
Length (mi): 3.60			(Louisiana St. to Neider Road) a St./US59 (23rd St. to County 58)	2022	State	CONST	\$0	\$420	\$0
Project Type: ITS		Work Type: Signa	al						
Date Added: 4/2021	Last Revised: 4/2022	Revison History:	FFY21 A2, FFY21 A3, FFY21 A5						
Description: Fiber extension from 31s St. and 23rd & Iowa St. to signals in the South Iowa include a variety of traffi improvements for as ma (ex. New CCTV cameras detection, & cabinets).	o existing traffic a Area. Will ic signals any as 11 signals	Comments:		Federal	\$0	Non-Federal	\$863	Grand	\$863
				Total:		Total:		Total:	
Project Sponsor: KDO	Т	•	facing: Junction US-24/K-32 to		Fund		Federal		
	T #: KA-6239-01	•	facing: Junction US-24/K-32 to as/Leavenworth County Line	FFY	Fund Source State	Phase CONST	Federal \$0	State \$38	Local
Project Sponsor: KDO TIP #: 145 KDOT Length (mi): 0.22		Name: the Dougla	as/Leavenworth County Line n of US-24/K-32 to the DG/LV	FFY	Source	Phase		State	
TIP #: 145 KDOT Length (mi): 0.22		Name: the Dougla	as/Leavenworth County Line n of US-24/K-32 to the DG/LV Line	FFY	Source	Phase		State	Local
TIP #: 145 KDOT Length (mi): 0.22 Project Type: Road Date Added:		Name: the Dougla Location: Junction County I Work Type: Surfa	as/Leavenworth County Line n of US-24/K-32 to the DG/LV Line	FFY	Source	Phase		State	Local
TIP #: 145 KDOT Length (mi): 0.22 Project Type: Road Date Added:	#: KA-6239-01 Last Revised: 12/21 It Surfacing	Name: the Dougla Location: Junction County I Work Type: Surfa	as/Leavenworth County Line n of US-24/K-32 to the DG/LV Line acing	FFY	Source	Phase		State	Local



Project Sponsor: Lawrence		pject 11th St In me: to 12th Re	ndiana to Ohio; Louisiana - 11th construction	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 146 KDOT #:	Nu			2022	Local	PE	\$0	\$0	\$150
Length (mi): 0.25	Loc		- Indiana St. to Ohio St. & a St 11th St. to 12th St.	2023	Local	CONST	\$0	\$0	\$1,600
Project Type: Road	Woi	ork Type: Reco	nstruction						
Date Added: Last Rev 10/2021	vised: Rev	vison History:							
Description: 11th St (Indiana to Ohio) includin concrete pavement, storm sewer bike/ped improvements & sanitar improvements at 11th/Ohio.	ry sewer reco	bgrade condition	condition (PCI = 27) and poor ns require complete th Street is a collector street and						
Louisiana St (11th to 12th St) inc concrete pavement, storm sewer bike/ped improvements.	-			Federal Total:	\$0	Non-Federal Total:	\$1,750	Grand Total:	\$1,750
Project Sponsor: KDOT	Nar		nning (north project limits of KA- rom 50 feet north of 6th Street in	FFY	Fund Source	Phase	Federal	State	Local
TID #• 1/1/ KDOT #• KA-65	50-01	,					1.0	1.100	
	50-01	cation:K-33/L at end o	J.S. 56 (N. 200th Road) junction	2022	State	PE	\$0	\$400	\$(
Length (mi): 2.01	Loc	cation:K-33/l	J.S. 56 (N. 200th Road) junction f route.	2022	State	PE	\$0	\$400	\$(
TIP #: 147 KDOT #: KA-65 Length (mi): 2.01 Project Type: Road Date Added: Last Rev 4/2022 6/2022	Loc Wor	cation:K-33/l at end o	J.S. 56 (N. 200th Road) junction f route. nstruction	2022	State	PE	\$0	\$400	\$(
Length (mi): 2.01 Project Type: Road Date Added: Last Rev	VSD-01 Loc Vised: Rev Cor Iglas Irmine	cation:K-33/L at end o rk Type: Reco	J.S. 56 (N. 200th Road) junction f route. nstruction	2022	State	PE	\$0	\$400	\$(



	ouglas County	Project Route 1055 at North 700 Curve Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 208 KDC	DT #:	Nume.	2020		ROW	\$0	\$0	\$5
Length (mi): 0.75		Location: Route 1055 from 725 North to 1670 East	2020	Local	UTIL	\$0	\$0	\$20
			2020	Local	CONST	\$0	\$0	\$1,800
Project Type: Road		Work Type: Rehabilitation, Bridge Replacement						
Date Added: 10/2014	Last Revised: 6/2020	Revison History:						
Description: Roadside safety impro two bridges and one o		Comments:						
			Federal Total:	\$0	Non-Federal Total:	\$2,050	Grand Total:	\$2,050
Project Sponsor: La	awrence	Project Wakarusa Dr. Reconstruction: Research	FFY	Fund	Phase	Federal	State	Local
	awrence DT #:	Project Wakarusa Dr. Reconstruction: Research Name: Pkwy to 23rd St	FFY 2021	Source	Phase PE	Federal \$0	State \$0	Local \$40
TIP #: 214 KDC			2021	Source				\$40
TIP #: 214 KDC		Name: Pkwy to 23rd St	2021 2022	Source Local	PE	\$0	\$0	Local \$400 \$6,000 \$900
TIP #: 214 KDC Length (mi): 1.47		Name: Pkwy to 23rd St	2021 2022	Source Local Local	PE CONST	\$0 \$0	\$0 \$0	\$400 \$6,000
TIP #: 214 KDC Length (mi): 1.47 Project Type: Road Date Added:		Name: Pkwy to 23rd St Location: Wakarusa: Research Pkwy to 23rd St	2021 2022	Source Local Local	PE CONST	\$0 \$0	\$0 \$0	\$40 \$6,00
TIP #: 214 KDC Length (mi): 1.47 Project Type: Road Date Added: 10/2016 Description:	DT #: Last Revised: 10/2021	Name: Pkwy to 23rd St Location: Wakarusa: Research Pkwy to 23rd St Work Type: Reconstruction	2021 2022	Source Local Local	PE CONST	\$0 \$0	\$0 \$0	\$40 \$6,00
TIP #: 214 KDC Length (mi): 1.47 Project Type: Road	DT #: Last Revised: 10/2021 eet will include surfacing, storm	Name: Pkwy to 23rd St Location: Wakarusa: Research Pkwy to 23rd St Work Type: Reconstruction Revison History: FFY2021 A4	2021 2022	Source Local Local	PE CONST	\$0 \$0	\$0 \$0	\$400 \$6,000
TIP #: 214 KDC Length (mi): 1.47 Project Type: Road Date Added: 10/2016 Description: Reconstruction of stres subgrade treatment, s sewer, geometric imp	DT #: Last Revised: 10/2021 eet will include surfacing, storm	Name: Pkwy to 23rd St Location: Wakarusa: Research Pkwy to 23rd St Work Type: Reconstruction Revison History: FFY2021 A4 Comments:	2021 2022 2023	Source Local Local	PE CONST	\$0 \$0	\$0 \$0	\$40 \$6,00



2	Douglas County	Project Rte 458/1055 Improvements: E 1500 thru Name: E 1600	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 219 K	(DOT #:		2020		PE	\$0	\$0	\$2
Length (mi): 1.60		Location: E1500 to E1600 & N940 to N1000	2021	Local	PE	\$0	\$0	\$3
			2021	Local	ROW	\$0	\$0	\$12
Project Type: Road	d	Work Type: Grading, Surfacing	2021	Local	UTIL	\$0	\$0	\$25
Floject Type. Roa	u	work rype. Grading, Surracing	2022	Local	CONST	\$0	\$0	\$3,20
Date Added: 8/2015	Last Revised: 8/2021	Revison History: FFY19 A3, FFY21 A3						
Description: Construct paved sh narrow bridges and roadside slope; and intersections.	culvert; flatten	Comments:						
			Federal Total:	\$0	Non-Federal Total:	\$3,609	Grand Total:	\$3,609
							i otal.	
	Douglas County	Project Route 1055 Improvements: N1000 to Name: N1180	FFY	Fund Source	Phase	Federal	State	Local
	Douglas County C DOT #:			Source		Federal \$0		
TIP #: 220 K			FFY	Source Local	Phase		State	\$60
TIP #: 220 K		Name: N1180	FFY 2019 2020	Source Local	Phase ROW	\$0	State \$0	Local \$66 \$150 \$2,316
TIP #: 220 K Length (mi): 1.80	DOT #:	Name: N1180	FFY 2019 2020	Source Local Local	Phase ROW UTIL	\$0 \$0	State \$0 \$0	\$66 \$150
	DOT #:	Name: N1180 Location: N1000 to N1180	FFY 2019 2020	Source Local Local	Phase ROW UTIL	\$0 \$0	State \$0 \$0	\$60 \$150
TIP #: 220 K Length (mi): 1.80 Project Type: Road Date Added:	d Last Revised: 6/2020 noulders; replace	Name: N1180 Location: N1000 to N1180 Work Type: Grading, Surfacing	FFY 2019 2020	Source Local Local	Phase ROW UTIL	\$0 \$0	State \$0 \$0	\$6 \$15



Project Sponsor:LawrenceTIP #:229KDOT #:		Project 19th Street Reconstruction: O'Connell Rd to Name: Harper St	FFY	Fund Source	Phase	Federal	State	Local
			2019	Local	PE	\$0	\$0	\$27
Length (mi): 0.54		Location: O'Connell Rd to Harper St	2019	Local	ROW	\$0	\$0	\$50
			2020	Local	CONST	\$0	\$0	\$1,100
Desired Transford		Work Type: Reconstruction	2021	Local	CONST	\$0	\$0	\$2,60
Project Type: Road								
Date Added: 8/2015	Last Revised: 10/2021	Revison History: FFY21 A4						
Description:		Comments:						
Reconstruct & tie into venture park and construct sidewalk & shared use path.		PE/ROW are each estimated at 10% of Construction Costs.						
			Federal Total:	\$0	Non-Federal Total:	\$4,025	Grand Total:	\$4,025
	1	Preiest Queene Deed: 6th to North City Limite		Fund				
Project Sponsor: Lawrence		Project Queens Road: 6th to North City Limits Name:	FFY	Fund Source	Phase	Federal	State	Local
							Otate	LUCAI
TIP #: 230 K	DOT #:	hune.	2015	Local	ROW	\$0	\$0	
TIP #: 230 K Length (mi): 0.75	DOT #:	Location: 6th St to North City Limits		Local Local	ROW PE			\$600
	DOT #:		2016			\$0	\$0	\$600 \$200 \$3,000
Length (mi): 0.75			2016	Local	PE	\$0 \$0	\$0 \$0	\$600 \$200
Length (mi): 0.75 Project Type: Road Date Added:		Location: 6th St to North City Limits	2016	Local	PE	\$0 \$0	\$0 \$0	\$600 \$200
-ength (mi): 0.75 Project Type: Road Date Added: 3/2015 Description:	d Last Revised: 10/2021	Location: 6th St to North City Limits Work Type: Reconstruction	2016	Local	PE	\$0 \$0	\$0 \$0	\$60 \$20
Length (mi): 0.75 Project Type: Road Date Added: 8/2015 Description: Construct Queens R Overland Dr & Queen	d Last Revised: 10/2021 Road, roundabout at ns Rd, construct	Location: 6th St to North City Limits Work Type: Reconstruction Revison History: FFY21 A4	2016	Local	PE	\$0 \$0	\$0 \$0	\$60 \$20
Length (mi): 0.75 Project Type: Road Date Added: 8/2015 Description:	d Last Revised: 10/2021 Road, roundabout at ns Rd, construct	Location: 6th St to North City Limits Work Type: Reconstruction Revison History: FFY21 A4 Comments: PE/ROW are each estimated at 10% of	2016	Local	PE	\$0 \$0	\$0 \$0	\$600 \$200



Project Sponsor: Lawrence		Project 23rd Street Reconstruction: Haskell to East Name: City Limits	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 234 KDOT #: KA-4473-01	2020			PE	\$0	\$0	\$500	
Length (mi): 2.01 Project Type: Road		Location: Haskell Ave to East City Limits Work Type: Reconstruction	2022	Local	CONST	\$0	\$0	\$2,250
			2022	State	CONST	\$0	\$4,000	\$(
			2023	Local	CONST	\$0	\$0	\$4,100
Date Added: 8/2015	Last Revised: 4/2022	Revison History: FFY21 A4, FFY21 A5						
Description: Reconstruction of street including pavement, storm sewer, geometric improvements and multimodal facilities.		Comments: 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 Total:	\$0	Non-Federal Total:	\$10,850	Grand Total:	\$10,850
Project Sponsor: KDOT		Project SLT/K-10 West Leg in Douglas County Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 236 KDOT #: KA-3634-02				State	PE	\$0	\$840	\$(
Length (mi): 1.20		Location: I-70/K10 Junction South to 3500 ft N of K-10/US-40 Junction	2021	State-AC	PE	\$0	\$3,360	\$(
			2022	State	ROW	\$0	\$2,000	\$(
Project Type: Road/Interchange		Work Type: Interchange/Reconstruction	2024	State	UTIL	\$0	\$400	\$0
			2024	State-AC	UTIL	\$0	\$1,600	\$(
Date Added:	Last Revised:	Revison History: FFY21 A1, FFY21A3	2025	NHPP	CONVERSION	\$4,960	\$0	\$0
1/2016	8/2021	•	2025	Credit	OTHER	\$0	(\$4,960)	\$C
Description: Add 2 lanes to existing 2 lanes for a 4 lane freeway section. This will include reconstruction of existing interchange @ KTA (I-70). A mainline ORT (open road tolling) toll plaza on K-10 is included in		Comments: PE uses \$3,360K of AC & UTIL uses \$1,600K of AC with conversion to NHPP in 2025. The total project cost, including all work phases, is estimated at \$89,918K. This estimate should be used for planning purposes only. Authorized for PE, ROW, UTIL only.						
reconstruction of interchange @ I-70.		OTIL OIIIY.	Federal		Non-Federal		Grand	



	(DOT	Project SLT/K-10 West Leg in Douglas County Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 237 KD	DOT #: KA-3634-03		2021		PE	\$0	\$2,160	\$0
Length (mi): 7.00		Location: 3500 ft N of K-10/US-40 Junction,to K-10	2021	State-AC	PE	\$0	\$8,640	\$0
		US-59/Iowa St Junction	2021	State	ROW	\$0	\$4,000	\$0
During the Towney During	/last	Walt Town a last and a last and (Decomption	2023	State	UTIL	\$0	\$3,200	\$0
Project Type: Road	/Interchange	Work Type: Interchange/Reconstruction	2023	State-AC	UTIL	\$0	\$12,800	\$0
Date Added:	Last Revised:	Revison History: FFY21 A1, FFY21 A5	2025	NHPP	CONVERSION	\$21,440	\$0	\$0
1/2016	4/2022		2025	Credit	OTHER	\$0	(\$21,440)	\$0
Description:		Comments:						
Add 2-lanes to existi Lane Freeway sectio interchanges at US-4 Billings Pkwy, Clinton St.) A new interchan Wakarusa/27th inter	on. Existing 40 (6th St.), Bob n Pkwy, US-59 (Iowa ge for the rsection, including	Project authorized for PE, ROW, and UTIL ONLY. Total est. cost of \$164,465.9 to be used for planning purposes only. PE Phase will use AC amount of \$8,640, conversion to NHPP in 2025. UTIL Phase will use AC amount of \$12,800, conversion to NHPP in 2025.						
replacing/repairing b	oridges.		Federal Total:	\$21,440	Non-Federal Total:	\$9,360	Grand Total:	\$30,800
Project Sponsor:	KDOT	Project US-56 Improvements: Eisenhower St to 1st Name: St	FFY	Fund	Phase	Federal	State	Local
TIP #: 243 KD	DOT #: KA-4365-01	Name. St	2021	Source Local	CONST	\$0	\$0	\$89
Length (mi): 0.30		Location: Eisenhower St to 1st St	2021	State	CONST	\$0	\$1,675	\$0
Project Type: Road		Work Type: Other/Reconstruction						
Date Added: 7/2016	Last Revised: 4/2021	Revison History: FFY21 A2						
Description: Improvements to US Eisenhower and con in Baldwin City.	•	Comments:						
			Federal Total:	\$0	Non-Federal Total:	\$1,764	Grand Total:	\$1,764



Lawrence-Douglas County MPO FFY 2021 - 2024 Transportation Improvement Program Projects (Costs in 1,000s)

Project Sponsor:		Project Bridge 0964-1000 replacement Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 248 K	(DOT #:		2021		PE	\$0	\$0	\$110
Length (mi): 0.15		Location: E 1000 Road 0.4 mi. South of Route 458	2021	Local	ROW	\$0	\$0	\$15
			2022	Local	UTIL	\$0	\$0	\$75
D • • T • D • 1			2022	Local	CONST	\$0	\$0	\$1,600
Project Type: Brid	ige	Work Type: Bridge Replacement, Grading						
Date Added: 10/2018	Last Revised: 8/2021	Revison History: FFY19, FFY21 A3						
Description:		Comments:						
Replace load poste bridge	d, fracture critical	Funding amounts assume all Local funding.						
			Federal Total:	\$0	Non-Federal Total:	\$1,800	Grand Total:	\$1,800
	KDOT	Project Repair bridge #071 on K-10 in Douglas Name: County	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 249 K	(DOT #: KA-5683-01		2020		PE	\$0	\$46	\$0
Length (mi): 0.00		Location: K-10; Bridge #071 over the Wakarusa	2020	State-AC	PE	\$0	\$183	\$0
		River located 7.05 miles east of the K-	2021	State	CONST	\$0	\$340	\$0
Desident Transford		10/U.S. 59 junction in Douglas County	2021	State-AC	CONST	\$0	\$1,363	\$0
Project Type: Brid	ige	Work Type: Bridge Rehabilitation	2022	NHPP	CONVERSION	\$1,546	\$0	\$0
Date Added: 8/2020	Last Revised: 8/2021	Revison History: FFY21 A1, FFY21 AR1, FFY21 A3	2022	Credit	OTHER	\$0	(\$1,546)	\$0
Description: Machine preparatic patch deck, polyme and bridge painting	er overlay, pier repair	Comments: 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.						



Project Sponsor: La		Project 6th and Massachusetts St Traffic Signal Name: Improvement Project	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 300 KDC	DT #:		2022		CONST	\$0	\$0	\$10
ength (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: 3/2021	Last Revised:	Revison History:						
Description: Project will replace the (Massachusetts St, Ve Kentucky St). Upgrade Accessible Pedestrian Detectors.	ermont St, es will include	Comments:						
			Federal Total:	\$0	Non-Federal Total:	\$700	Grand Total:	\$700
	dependence Inc.	Project Independence Inc., FTA 5311 Operating & Name: Capital	FFY	Fund Source	Phase	Federal	State	Local
	DT #:		2021		OPERATING	\$0	\$0	\$50
_ength (mi):		Location: Lawrence	2021	State	OPERATING	\$0	\$33	\$(
			2021	5311	OPERATING	\$83	\$0	\$0
Project Type: Transit	Dorotropoit	Work Type: Operating/Capital	2021	Local	CAPITAL	\$0	\$0	\$8
roject rype. Transit	/Paratransit	work Type. Operating/Capital	2021	5311	CAPITAL	\$33	\$0	\$0
Date Added: 10/2014	Last Revised: 6/2020	Revison History:						
Description: Operating and Capital		Comments: 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 Total:	\$116	Non-Federal Total:	\$91	Grand Total:	\$207



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

2	Lawrence Transit	Project Lawrence Transit Capital Assistance Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 403	(DOT #: PT-0701		2019	State-PT	CAPITAL	\$0	\$500	\$0
Length (mi):		Location: Lawrence	2019	State-PT	OPERATING	\$0	\$759	\$0
			2020	State-PT	CAPITAL	\$0	\$1,000	\$0
	a sit (Davatuan sit	Work Types Openial Work	2020	State-PT	OPERATING	\$0	\$297	\$0
Project Type: Tran	nsil/Paratransit	Work Type: Special Work	2021	State-PT	CAPITAL	\$0	\$600	\$C
Date Added:	Last Revised:	Revison History: FFY21 A6	2021	State-PT	OPERATING	\$0	\$721	\$C
10/2014	6/2022		2022	State-PT	CAPITAL	\$0	\$500	\$0
escription:	Comments:	2022	State-PT	OPERATING	\$0	\$788	\$0	
omprehensive Transportation ogram. Purchase of replacement aratransit vehicles.	StateCTP	2023	State-PT	CAPITAL	\$0	\$600	\$(
		2023	State-PT	OPERATING	\$0	\$721	\$	
			2024	State-PT	CAPITAL	\$0	\$600	\$(
			2024	State-PT	OPERATING	\$0	\$721	\$(
			Federal Total:	\$0	Non-Federal Total:	\$7,807	Grand Total:	\$7,807
Project Sponsor:	Lawrence Transit	Project Lawrence Multimodal Transfer Facility Name:	FFY	Fund Source	Phase	Federal	State	Local
FIP #: 410 k	(DOT #:		2020	Local	PE	\$0	\$0	\$1,000
ength (mi):		Location: Lawrence	2021	Local	CONST	\$0	\$0	\$3,50
			2021	Local	PE	\$0	\$0	\$13
Project Type: Tree	noit/Daratranoit	Work Type: Capital	2022	Local	PE	\$0	\$0	\$85
Project Type: Tran	11511/ F'di dii di 1511	work rype. Capital	2022	Local	CONST	\$0	\$0	\$3,20

Date Added: 7/2016 **Description:**

Last Revised: 6/2022

Revison History: FFY21 A6 Comments:

2023 Local CONST \$0 \$0 \$5,800 2024 Local CONST \$0 \$0 \$406 2024 State CONST \$0 \$1,624 \$0

Federal Non-Federal Grand \$0 \$16,530 \$16,530 Total: Total: Total:

Transit Facility



.,	Lawrence Transit	Project Lawrence Transit Operating Funds Name:	EEV	Fund Source	Phase	Federal	State	Local
TIP #: 412 K	DOT #: 5307 FTA				OPERATING	\$0	\$0	\$1
Length (mi):		Location: Lawrence	2018 53	307	OPERATING	\$5	\$0	\$0
			2019 Lo	ocal	OPERATING	\$0	\$0	\$1,860
Ducient Trans. Tran	eit (Devetvereit	Work Turney Onerating	2019 53	307	OPERATING	\$2,447	\$0	\$0
Project Type: Tran	sil/Paratransit	Work Type: Operating	2020 Lo	ocal	OPERATING	\$0	\$0	\$2,523
Date Added:	Last Revised:	Revison History: FFY21 A6	2020 53	307	OPERATING	\$2,523	\$0	\$0
10/2014	5/5/2022		2021 Lo	ocal	OPERATING	\$0	\$0	\$2,533
Description:		Comments:	2021 53	307	OPERATING	\$2,533	\$0	\$0
Operating, Preventa		Federal Transit 5307 Funds. 2021-2022 amounts	2022 Lo	ocal	OPERATING	\$0	\$0	\$3,808
and Program Admir	istration activities.	are projected. Linked with project #402.	2022 53	307	OPERATING	\$3,808	\$0	\$0

		Federal Total:	\$11,316	Non-Federal Total:	\$10,725	Grand Total:	\$22,041
Project Sponsor: Lawrence Transit TIP #: 416 KDOT #:	Project Lawrence Transit Electric Buses Phase 1 Name:	FF	Source	Phase	Federal	State	Local
		202		PE	\$367	\$0	\$0
Length (mi): 0.00	Location: Lawrence	202	2 5339	CAPITAL	\$3,389	\$0	\$0
Project Type: Transit/Paratransit	Work Type: Vehicle Replacement	202	2 Local	CAPITAL	\$0	\$0	\$2,234
Date Added: Last Revised: 8/2020 6/2022	Revison History: FFY21 A6						
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 Total:	\$3,756	Non-Federal Total:	\$2,234	Grand Total:	\$5,990



Project Sponsor: Lawrence Transit	Project CARES Act Operating Funds Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 417 KDOT #:		2021	5307	OPERATING	\$1,921	\$0	\$
Length (mi): 0.00	Location: Lawrence	2022	5307	OPERATING	\$3,737	\$0	4
Project Type: Transit/Paratransit	Work Type: Operating						
Date Added: Last Revised: 10/2020 6/2021	Revison History: FFY21, FFY21 A3, FFY21 A6						
Description: CARES Act funds were apportioned to Lawrence Transit, eligible for similar uses as 5307 funds in response to lost revenue and challenges due to COVID- 19. In Lawrence, funding will be used for	Comments: Linked with CARES Act Capital Assistance project (#418). Project requires no local match.						
operating costs.		Federal Total:	\$5,658	Non-Federal Total:	\$0	Grand Total:	\$5,658
Project Sponsor: Lawrence Transit	Project American Rescue Plan (ARP) Operating Name: Assistance	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 419 KDOT #:		2022		OPERATING	\$1,524	\$0	\$
				0. =	Ψ±/0Ε Ι	ΨU	
Length (mi): 0.00	Location: City of Lawrence	2023	5307	OPERATING	\$2,988	\$0 \$0	4
	Location: City of Lawrence Work Type: Operating	2023	5307				
Project Type: Transit/Paratransit Date Added: Last Revised:		2023	5307				
Length (mi): 0.00 Project Type: Transit/Paratransit Date Added: Last Revised: 8/2021 Description: American Rescue Plan Act of 2021 (ARP) funds were apportioned to Lawrence Transit, eligible for similar uses as 5307 funds in response to lost revenues and challenges due to the COVID-19.	Work Type: Operating	2023	5307				



	ence Transit	Project Lawrence Transit Electric Buses Phase II Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 420 KDOT #	#:		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	\$(
Project Type: Transit/Pa	aratransit	Work Type: Vehicle Replacement	2023	Local	CAPITAL	\$0	\$0	\$619
Date Added: I 8/2021	Last Revised:	Revison History:						
Description:		Comments:						
Procurement of two batte buses to replace two dies buses, associated chargin infrastructure, and projec	sel powered ing	FTA Low-No grant for \$1.8 million awarded in June 2021.						
			Federal Total:	\$1,816	Non-Federal Total:	\$667	Grand Total:	\$2,483
	ence Transit	Project Zero-Emissions Transition Plan Name:	FFY	Fund Source	Phase	Federal	State	Local
Project Sponsor: Lawre TIP #: 421 KDOT # Length (mi): 0.00		•	2022		Phase PE PE	Federal \$0 \$120		Local \$30 \$0
TIP #: 421 KDOT # Length (mi): 0.00	#:	Name:	2022	Source Local	PE	\$0	State \$0	\$30
TIP #: 421 KDOT # Length (mi): 0.00 Project Type: Transit/Pa Date Added:	#:	Name: Location: Lawrence	2022	Source Local	PE	\$0	State \$0	\$30
TIP #: 421 KDOT # Length (mi): 0.00 Project Type: Transit/Pa Date Added:	#: aratransit Last Revised: 6/2022 wrence Transit eployments of buses towards	Name: Location: Lawrence Work Type: Planning	2022	Source Local	PE	\$0	State \$0	\$30



Project Sponsor: Lawrence Transit TIP #: 422 KDOT #:	Project Equitable and Accessible Bus Stop Name: Amenities	FFY	Fund Source	Phase	Federal	State	Local
		2023		CONST	\$0	\$0	\$31
Length (mi): 0.00	Location: Lawrence	2023	Federal	CONST	\$122	\$0	\$0
Project Type: Transit/Paratransit	Work Type: Capital						
Date Added:Last Revised:6/2022	Revison History:						
Description: This project will improve 25 bus stops in Environmental Justice zones. 16 sites will be improved with accessible boarding pads and solar lighting for visibility and safety, and 9 additional sites will gain shelters, benches, bike	Comments:						
racks, and trash cans.		Federal Total:	\$122	Non-Federal Total:	\$31	Grand Total:	\$153
Project Sponsor: Lawrence Transit	Project AIC - Multimodal Transfer Facility Elements		Fund				
	-	FFY	Sourco	Phase	Federal	State	Local
TIP #: 423 KDOT #:	Name:	FFY 2023	Source Local	Phase CAP	Federal \$0	State \$0	Local \$406
TIP #: 423 KDOT #: Length (mi): 0.00	-	2023					
-	Name:	2023	Local	CAP	\$0	\$0	\$406
Length (mi): 0.00	Name: Location: Lawrence	2023	Local	CAP	\$0	\$0	\$406
Length (mi): 0.00 Project Type: Transit/Paratransit Date Added: Last Revised:	Name: Location: Lawrence Work Type: Capital	2023	Local	CAP	\$0	\$0	\$406



Project Sponsor: Lawrence Transit	Project AIC - Bus Technology, Accessibility, and Name: Branding Enhancements	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 424 KDOT #:		2022		CAP	\$0	\$0	\$169
Length (mi): 0.00	Location: Lawrence	2022	Federal	CAP	\$677	\$0	\$0
Project Type: Transit/Paratransit	Work Type: Other						
Date Added: Last Revised: 6/2022	Revison History:						
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	Comments:						
a wiaps		Federal Total:	\$677	Non-Federal Total:	\$169	Grand Total:	\$846
Project Sponsor: Lawrence Transit	Project Electric Buses Phase III	FFY	Fund	Phase	Federal	State	Local
TIP #: 425 KDOT #:	Name:		Source Local	PE	\$0	\$0	\$8
Length (mi): 0.00	Location: Lawrence	2022	Federal	PE	\$31	\$0	\$0
		2023	Local	CONST	\$0	\$0	\$300
		2023	Local	PE	\$0	\$0	\$90
Project Type: Transit/Paratransit	Work Type: Vehicle Replacement	2023	Federal	PE	\$160	\$0	\$0
Date Added: Last Revised:	Revison History:	2024	Local	CAP	\$0	\$0	\$718
6/2022		2024	Local	PE	\$0	\$0	\$26
Description:	Comments:	2024	Federal	PE	\$105	\$0	\$0
Procurement of four battery electric buses to replace two diesel powered	FTA Low-No grant for \$3.4 million submitted in May 2022.	2024	Local	CAP	\$0	\$0	\$188
buses, two gasoline powered buses, associated charging infrastructure, and project management.							



Project Sponsor: Lawrence	Project Lawrence Safe Routes to School TA Phase Name: 2	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 506 KDOT #: U-2334-01		2018	Local	PE	\$0	\$0	\$65
Length (mi): 1.68	Location: Various sidewalk along 6 streets in	2019	Local	CONST	\$0	\$0	\$100
	Lawrence	2019	ТА	CONST	\$394	\$0	\$(
Project Type: Transportation Alternative	e Work Type: Pedestrian & Bicycle Work						
Date Added: Last Revised: 12/2017 10/2018	Revison History:						
Description:	Comments:						
New sidewalk construction along designated Safe Routes to School. Driveway and sidewalk ramp construction will be included for ADA compliance.	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 \$394,128.						
		Federal Total:	\$394	Non-Federal Total:	\$165	Grand Total:	\$559
Project Sponsor: Lawrence	Project Various Lawrence Bike/Sidewalk/ADA	FFY	Fund	Phase	Federal	State	Local
Project Sponsor: Lawrence TIP #: 507 KDOT #:	Project Various Lawrence Bike/Sidewalk/ADA Name: Ramps Projects	FFY 2021	Fund Source CDBG	Phase CONST	Federal \$300	State \$0	
TIP #: 507 KDOT #:	-	2021	Source				Local \$0 \$675
TIP #: 507 KDOT #:	Name: Ramps Projects	2021 2021	Source CDBG	CONST	\$300	\$0	\$0
TIP #: 507 KDOT #: Length (mi): 0.00	Name: Ramps Projects	2021 2021 2021	Source CDBG Local	CONST CONST	\$300 \$0	\$0 \$0	\$0 \$675
TIP #: 507 KDOT #: Length (mi): 0.00	Name: Ramps Projects	2021 2021 2021 2022	Source CDBG Local Local	CONST CONST CONST	\$300 \$0 \$0	\$0 \$0 \$0	\$0 \$675 \$325
TIP #: 507 KDOT #: Length (mi): 0.00 Project Type: Pedestrian & Bicycle	Name: Ramps Projects	2021 2021 2021 2022 2022	Source CDBG Local Local CDBG	CONST CONST CONST CONST	\$300 \$0 \$0 \$300	\$0 \$0 \$0 \$0	\$(\$67 <u>5</u> \$325 \$(
TIP #: 507 KDOT #: Length (mi): 0.00 Project Type: Pedestrian & Bicycle Date Added: Last Revised:	Name: Ramps Projects Location: Lawrence Work Type: Pedestrian & Bicycle Work	2021 2021 2021 2022 2022 2022 2022	Source CDBG Local Local CDBG Local	CONST CONST CONST CONST CONST	\$300 \$0 \$0 \$300 \$0	\$0 \$0 \$0 \$0 \$0	\$0 \$675 \$325 \$0 \$675
TIP #: 507 KDOT #: Length (mi): 0.00 Project Type: Pedestrian & Bicycle Date Added: Last Revised: 10/2018 10/2020 Description:	Name: Ramps Projects Location: Lawrence Work Type: Pedestrian & Bicycle Work Revison History: Comments:	2021 2021 2021 2022 2022 2022 2022 2023	Source CDBG Local Local CDBG Local	CONST CONST CONST CONST CONST	\$300 \$0 \$300 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0	\$(\$67! \$32! \$(\$67! \$32!
TIP #: 507 KDOT #: Length (mi): 0.00 Project Type: Pedestrian & Bicycle Date Added: Last Revised: 10/2018 10/2020 Description: Pedestrian, Bicycle, & ADA ramp projects	Name: Ramps Projects Location: Lawrence Work Type: Pedestrian & Bicycle Work Revison History: Comments: The CDBG is an estimate of anticipated funding.	2021 2021 2021 2022 2022 2022 2023 2023	Source CDBG Local CDBG CDBG Local Local	CONST CONST CONST CONST CONST CONST	\$300 \$0 \$0 \$300 \$0 \$0 \$300	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$(\$67! \$32! \$(\$67! \$32! \$(\$32! \$(\$67!
TIP #: 507 KDOT #: Length (mi): 0.00 Project Type: Pedestrian & Bicycle Date Added: Last Revised: 10/2018 10/2020 Description: Pedestrian, Bicycle, & ADA ramp projects throughout Lawrence including in EJ	 Name: Ramps Projects Location: Lawrence Work Type: Pedestrian & Bicycle Work Revison History: Comments: The CDBG is an estimate of anticipated funding. CONST funding may be used for additional work 	2021 2021 2021 2022 2022 2022 2023 2023	Source CDBG Local CDBG Local Local CDBG	CONST CONST CONST CONST CONST CONST CONST	\$300 \$0 \$300 \$0 \$0 \$0 \$300 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$(\$67! \$32! \$(\$67! \$32! \$32! \$32!
TIP #: 507 KDOT #: Length (mi): 0.00 Project Type: Pedestrian & Bicycle Date Added: Last Revised: 10/2018 10/2020 Description: Pedestrian, Bicycle, & ADA ramp projects throughout Lawrence including in EJ areas. Community Development Block	Name: Ramps Projects Location: Lawrence Work Type: Pedestrian & Bicycle Work Revison History: Comments: The CDBG is an estimate of anticipated funding.	2021 2021 2022 2022 2022 2023 2023 2023	Source CDBG Local CDBG CDBG Local CDBG Local Local	CONST CONST CONST CONST CONST CONST CONST CONST	\$300 \$0 \$300 \$0 \$0 \$300 \$0 \$0 \$0 \$0	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ \$67 \$32 \$ \$67 \$32 \$ \$ 67 \$32 \$ \$ 2 \$ 32 \$ \$ 2 \$ 57 \$ 57 \$ 57 \$ 57 \$ 57 \$ 57 \$
TIP #: 507 KDOT #: Length (mi): 0.00 Project Type: Pedestrian & Bicycle Date Added: Last Revised:	 Name: Ramps Projects Location: Lawrence Work Type: Pedestrian & Bicycle Work Revison History: Comments: The CDBG is an estimate of anticipated funding. CONST funding may be used for additional work tasks. Local funding for ADA ramps at \$325k/yr & 	2021 2021 2022 2022 2022 2023 2023 2023	Source CDBG Local CDBG Local Local CDBG Local Local CDBG	CONST CONST CONST CONST CONST CONST CONST CONST CONST	\$300 \$0 \$300 \$0 \$0 \$300 \$0 \$0 \$0 \$300	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$ \$67: \$32: \$ \$67: \$32: \$ \$ \$ \$ \$ \$ \$ \$ 2: \$ \$ \$ \$ \$ \$ \$ \$ \$



Project Sponsor: Lawre		Project Lawrence Name: to 11th St	Loop Shared-Use Paths - 8th St & 29th St	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 508 KDOT #	:TE-0470-01			2019		PE	\$0	\$0	\$10
Length (mi): 0.60			to 9th St through Hobbs Park	2021	Local	CONST	\$0	\$0	\$30
			ng Delaware St & 29th St Haskell il to Haskell Ave	2021	ТА	CONST	\$480	\$0	\$
Project Type: Transporta	ation Alternative	Work Type: Capi	tal, Pedestrian/Bicycle, Safety						
	ast Revised: 5/2020	Revison History:							
Description:		Comments:							
Design and construction c use path	of 10' shared-	KDOT TA Project;	FY20; \$480,000 (max.)						
				Federal Total:	\$480	Non-Federal Total:	\$400	Grand Total:	\$880
Project Sponsor: Baldw	in City		win Pedestrian/Bike Connectivity	FFY	Fund	Phase	Federal	State	Local
TIP #: 509 KDOT #	:TE-0472-02	Name: Project		2021	Source Local	PE	\$0	\$0	\$14
Length (mi): 0.78		Location: Intersed	ction of 8th Street/Elm St		Local	UTIL	\$0	\$0 \$0	\$1
3. ()		proceed	ling westerly to USD 348 property		Local	CONST	\$0	\$0	\$25
		(+/- one	-half mile) and East side of	2021		CONST	\$1,013	\$0	+_== \$
Project Type: Transporta	ation Alternative	Work Type: Pede	estrian & Bicycle Work		Local	CONST	\$0	\$0	\$35
	ast Revised: 5/2022	Revison History:	FFY19 AR2, FFY21 A3, FFY21 AR4	2022		CONST	\$1,013	\$0	\$
Description:		Comments:							
Construct sidewalk along of Elm St from 8th St acro Midland Railway Crossing	oss existing connecting to 348 property	provide connectiv more specifically,	dewalks and shared use path to ity for community at-large, and to provide elementary students KDOT TA Project; FY20;						
existing sidewalk on USD with bulb out at 8th St. Co use path along Elm St fror		¢1,012,500 (IIIa)							



Project Sponsor: Eudora	Project Bluejacket Trail: Phase II Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 510 KDOT #: TE-0480-01	Hume.	2019		PE	\$0	\$0	\$34
Length (mi): 1.34	Location: 1201 Cedar St. to 1702 Cypress Ct. in	2020	Local	UTIL	\$0	\$0	\$55
	Eudora	2020	Local	CONST	\$0	\$0	\$87
Project Type: Transportation Alternative	Work Type: Pedestrian & Bicycle Work	2020	ТА	CONST	\$284	\$0	\$(
Date Added: Last Revised: 4/2019 8/2019	Revison History:						
Description:	Comments:						
Design, engineer, and construct an ADA- compliant, approximately 7,050' long, 8' wide shared-use path.	Project is currently slated to start construction in August/September 2020.						
		Federal Total:	\$284	Non-Federal Total:	\$176	Grand Total:	\$460
Project Sponsor: Lawrence	Project Lawrence Loop Shared Use Path: Peterson Name: Rd to Michigan St	FFY	Fund Source	Phase	Federal	State	Local
KDOT #: TE-0490-01		2020	Local	PE	\$0	\$0	\$216
_ength (mi): 0.61	Location: Begins at the intersection of Peterson Rd	2022	Local	CONST	\$0	\$0	\$1,084
	and N Iowa St, ends at Michigan Rd 1/2 mile north of W 2nd St	2022	ТА	CONST	\$1,070	\$0	\$0
Project Type: Transportation Alternative	Work Type: Pedestrian & Bicycle Work						
Date Added: Last Revised: 6/2020 4/2022	Revison History: FFY21 A2, FFY21 A4, FFY21 A5						
Description:	Comments:						
Design and construction of 10' shared use path.	KDOT TA project, FY 21; \$1,070,00 (max)						



Project Sponsor: Lawrence	Project Lawrence Safe Routes to School Phase 2 Name: (2021)	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 513 KDOT #: U-2372-01		2020		PE	\$0	\$0	\$5
Length (mi): 0.90	Location: Various sidewalk along 6 streets & 1	2021	Local	CONST	\$0	\$0	\$12
	crossing improvement	2021	ТА	CONST	\$500	\$0	\$
Project Type: Transportation Alternative	Work Type: Pedestrian & Bicycle Work, Safety						
Date Added: Last Revised: 6/2020 11/2021	Revison History: FFY21 AR2						
Description:	Comments:						
New sidewalk construction along designated Safe Routes to School. Driveway and sidewalk ramp construction will be included for ADA compliance.	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 Total:	\$500	Non-Federal Total:	\$175	Grand Total:	\$675
Project Sponsor: Lawrence	Project Naismith Drive Mobility Enhancement	FFY	Fund	Phase	Federal	State	Local
	Name:		Source		reactai	otate	
TIP #: 514 KDOT #: TBD		2021	State	PE	\$0	\$36	\$
	Location: Naismith Drive from 23rd St. to 19th St.	2021 2021		PE PE	\$0 \$0	\$36 \$0	
		2021	Local	PE	\$0	\$0	\$(\$4 \$(
Length (mi): 0.50	Location: Naismith Drive from 23rd St. to 19th St. (east side)	2021 2021				\$0 \$290	\$4 \$(
Length (mi): 0.50	Location: Naismith Drive from 23rd St. to 19th St.	2021 2021	Local State	PE CONST	\$0 \$0	\$0	\$4
Length (mi): 0.50 Project Type: Pedestrian/Bicycle Date Added: Last Revised:	Location: Naismith Drive from 23rd St. to 19th St. (east side)	2021 2021	Local State	PE CONST	\$0 \$0	\$0 \$290	\$• \$1
Length (mi): 0.50 Project Type: Pedestrian/Bicycle Date Added: Last Revised: 10/2020	Location: Naismith Drive from 23rd St. to 19th St. (east side)Work Type: Pedestrian & Bicycle Work, Other	2021 2021	Local State	PE CONST	\$0 \$0	\$0 \$290	\$• \$1
Length (mi): 0.50 Project Type: Pedestrian/Bicycle	 Location: Naismith Drive from 23rd St. to 19th St. (east side) Work Type: Pedestrian & Bicycle Work, Other Revison History: 	2021 2021	Local State	PE CONST	\$0 \$0	\$0 \$290	\$ \$
Length (mi): 0.50 Project Type: Pedestrian/Bicycle Date Added: Last Revised: 10/2020 Description: Construct sidewalk on east side of Naismith Dr. with focus on Transit	Location: Naismith Drive from 23rd St. to 19th St. (east side) Work Type: Pedestrian & Bicycle Work, Other Revison History: Comments: 2020 Access, Innovation, and Collaboration Grant	2021 2021	Local State	PE CONST	\$0 \$0	\$0 \$290	\$



Project Sponsor: Lecompton	Project Lecompton Sidewalk Loop Project: Historic Name: Loop & Grand Loop Connectivity	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 515 KDOT #: TE-0500-01	Name. Loop & Grand Loop Connectivity	2023		PE	\$0	\$0	\$114
Length (mi): 1.75	Location: Connecting 2nd, 3rd, Elmore, Halderman, 7th, and Boone Streets	2023	Local	CONST	\$0	\$0	\$26
		2023	ТА	CONST	\$727	\$0	\$
Project Type: Transportation Alternative	Work Type: Pedestrian & Bicycle Work						
Date Added: Last Revised: 4/2021 8/2021	Revison History: FFY21 A3						
Description:	Comments:						
Construct 5' wide concrete sidewalk and install sharrows.	KDOT TA Project; FY23; \$727,200 (max)						
		Federal Total:	\$727	Non-Federal Total:	\$375	Grand Total:	\$1,102
• •	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	Name: St. to Sandra Shaw Park	2021	Source Local	PE	Federal \$0	State \$0	\$150
TIP #: 516 KDOT #: TE-0499-01	Name: St. to Sandra Shaw Park Location: Begins at Michigan St., 1/2 mile north of	2021 2022	Source Local Local	PE ROW	\$0 \$0	\$0 \$0	\$150 \$525
TIP #: 516 KDOT #: TE-0499-01	Name: St. to Sandra Shaw Park	2021 2022 2023	Source Local Local Local	PE ROW CONST	\$0 \$0 \$0	\$0 \$0 \$0	\$150 \$525 \$212
TIP #: 516 KDOT #: TE-0499-01 Length (mi): 0.47	Name: St. to Sandra Shaw ParkLocation: Begins at Michigan St., 1/2 mile north of W 2nd St., ends at Sandra Shaw Park	2021 2022	Source Local Local Local	PE ROW	\$0 \$0	\$0 \$0	\$150 \$525 \$212
TIP #: 516 KDOT #: TE-0499-01 Length (mi): 0.47 Project Type: Transportation Alternative Date Added: Last Revised:	Name: St. to Sandra Shaw ParkLocation: Begins at Michigan St., 1/2 mile north of W 2nd St., ends at Sandra Shaw Park	2021 2022 2023	Source Local Local Local	PE ROW CONST	\$0 \$0 \$0	\$0 \$0 \$0	\$15) \$52 \$21
TIP #: 516 KDOT #: TE-0499-01 Length (mi): 0.47 Project Type: Transportation Alternative Date Added: Last Revised: 4/2021 8/2021 Description: Last Revised:	 Name: St. to Sandra Shaw Park Location: Begins at Michigan St., 1/2 mile north of W 2nd St., ends at Sandra Shaw Park Work Type: Pedestrian & Bicycle Work 	2021 2022 2023	Source Local Local Local	PE ROW CONST	\$0 \$0 \$0	\$0 \$0 \$0	\$150 \$525 \$212
TIP #: 516 KDOT #: TE-0499-01 Length (mi): 0.47 Project Type: Transportation Alternative Date Added: Last Revised: 4/2021 8/2021 Description: Design and construction of 10' shared	 Name: St. to Sandra Shaw Park Location: Begins at Michigan St., 1/2 mile north of W 2nd St., ends at Sandra Shaw Park Work Type: Pedestrian & Bicycle Work Revison History: FFY21 A3 	2021 2022 2023	Source Local Local Local	PE ROW CONST	\$0 \$0 \$0	\$0 \$0 \$0	Local \$150 \$525 \$212 \$0
TIP #: 516 KDOT #: TE-0499-01 Length (mi): 0.47 Project Type: Transportation Alternative Date Added: Last Revised:	 Name: St. to Sandra Shaw Park Location: Begins at Michigan St., 1/2 mile north of W 2nd St., ends at Sandra Shaw Park Work Type: Pedestrian & Bicycle Work Revison History: FFY21 A3 Comments: 	2021 2022 2023	Source Local Local Local	PE ROW CONST	\$0 \$0 \$0	\$0 \$0 \$0	\$150 \$52 \$212



Project Sponsor: Ba	2	Project Baldwin C Name:	ity Sidewalk Gap Project	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 517 KDC)T #: TE-0496-01	Name:	2022		PE	\$0	\$0	\$10	
Length (mi): 1.10		Location: 11th St., Hwy 56 to High St.; High St., 4th		2022	Local	CONST	\$0	\$0	\$15
		St. to 2nd St; 2nd St., Hwy 56 to Fremont St; & Quayle St., Middle School to 6th St.	2022	ТА	CONST	\$620	\$0	\$1	
Project Type: Transp	ortation Alternative	Work Type: Pede	estrian & Bicycle Work						
Date Added: 4/2021	Last Revised: 8/2021	Revison History:	FFY21 A3						
Description:		Comments:							
Construct 5' wide side sidewalk segments to sidewalk gaps identifie Routes to School netw	fill in missing ed on the Safe	KDOT TA Project;	FY22; \$620,000 (max)						
				Federal Total:	\$620	Non-Federal Total:	\$261	Grand Total:	\$881
Project Sponsor: Eu	idora	-)th St. Sidewalk Expansion	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 518 KDC)T #: TE-0497-01	Name:		2022		PE	\$0	\$0	\$13
Length (mi): 0.61		Location: Corner	of 10th & Church St. to corner of	2022	Local	UTIL	\$0	\$0	\$134
		Peach	St. & 10th St.	2022	Local	CONST	\$0	\$0	\$278
				2022	TA	CONST	\$1,111	\$0	\$(
Project Type: Transp	ortation Alternative	Work Type: Pede	estrian & Bicycle Work						
Date Added: 4/2021	Last Revised: 8/2021	Revison History:	FFY21 A3						
Description:		Comments:							
Construct 6' wide sidewalks to replace existing detoriated sidewalk or install new sidewalk. Also will expand the reinforced concrete box culvert under 10th st. to improve stormwater/flood		KDOT TA Project;	FY22; \$1,111,074 (max)						
reinforced concrete bo	ormwater/flood								



Project Sponsor: KDOT		Project Various Railroad Safety Projects in the Name: Region	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 600 KD	OOT #:	Name. Region	2020	State-AC	CONST	\$0	\$500	\$(
_ength (mi):		Location:	2021	HSIP	CONVERSION	\$500	\$0	\$
			2021	Credit	OTHER	\$0	(\$500)	\$
			2021	State-AC	CONST	\$0	\$500	\$
Project Type: Safety	у	Work Type:	2022	HSIP	CONVERSION	\$500	\$0	\$
Date Added:	Last Revised:	Revison History:	2022	Credit	OTHER	\$0	(\$500)	\$
10/2014	10/2020		2022	State-AC	CONST	\$0	\$500	\$
Description:		Comments:	2023	HSIP	CONVERSION	\$500	\$0	\$
Safety improvements		This is a master project that would include any	2023	Credit	OTHER	\$0	(\$500)	\$
region as identified b funds may be used to	•	safety projects selected in region. State funds (SF)	2023	State-AC	CONST	\$0	\$500	\$
by working to correct	•	Conversions: 2020 SF to 2021 HSIP, 2021 SF to 2022 HSIP, 2022 SF to 2023 HSIP, 2023 SF to 2024	2024	HSIP	CONVERSION	\$500	\$0	\$
identified safety haza	ards at public	HSIP.	2024	Credit	OTHER	\$0	(\$500)	\$
railway-highway cros	ssing in a proactive		Federal		Non-Federal		Onend	
manner.			Federal Total:	\$2,000	Total:	\$0	Grand Total:	\$2,000
Project Sponsor: D	ouglas County	Project DGCO: High Friction Surface Treatment		Fund				
		Project DGCO: High Friction Surface Treatment Name:	FFY	Source	Phase	Federal	State	Local
TIP #: 605 KD)ouglas County 0 0T #: C-5065-01	Name:	FFY 2022	Source Local	CONST	\$0	State \$0	\$11
		•	FFY 2022	Source			State	Local \$112 \$(
TIP #: 605 KD		Name:	FFY 2022	Source Local	CONST	\$0	State \$0	\$11
TIP #: 605 KD Length (mi): 1.46 Project Type: Road Date Added:		Name: Location: Routes 442 and 1055	FFY 2022	Source Local	CONST	\$0	State \$0	\$11
TIP #: 605 KD Length (mi): 1.46 Project Type: Road Date Added: 10/2020 Description:	DOT #: C-5065-01 Last Revised: 10/2021	Name: Location: Routes 442 and 1055 Work Type: Surfacing	FFY 2022	Source Local	CONST	\$0	State \$0	\$11
TIP #: 605 KD Length (mi): 1.46 Project Type: Road Date Added: 10/2020 Description: Apply high-friction su	DOT #: C-5065-01 Last Revised: 10/2021 urface treatment to	Name: Location: Routes 442 and 1055 Work Type: Surfacing Revison History: FFY21 A4	FFY 2022	Source Local	CONST	\$0	State \$0	\$11
TIP #: 605 KD Length (mi): 1.46	DOT #: C-5065-01 Last Revised: 10/2021 urface treatment to	Name: Location: Routes 442 and 1055 Work Type: Surfacing Revison History: FFY21 A4 Comments:	FFY 2022	Source Local	CONST	\$0	State \$0	\$11
TIP #: 605 KD Length (mi): 1.46 Project Type: Road Date Added: 10/2020 Description: Apply high-friction su	DOT #: C-5065-01 Last Revised: 10/2021 urface treatment to	Name: Location: Routes 442 and 1055 Work Type: Surfacing Revison History: FFY21 A4 Comments:	FFY 2022	Source Local	CONST	\$0	State \$0	\$11



Project Sponsor: Douglas County	Project Rte 1061 / Rte 460 Intersection Safety Name: Improvement	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 606 KDOT #:		2022		ROW	\$0	\$0	\$50
Length (mi): 0.40	Location: E 2200 RD from N 700 RD 0.3 miles north	2023	Local	CONST	\$0	\$0	\$1,800
Project Type: Safety Date Added: Last Revised	Work Type: Geometric Improvement, Grading, Mill/Overlay Revison History:						
8/2021	Kevison history.						
Description: Improvements to improve sight distant at the intersection of two county route							
		Federal Total:	\$0	Non-Federal Total:	\$1,850	Grand Total:	\$1,850
Project Sponsor: Lawrence	Project Massachusetts Street - 14th to 23rd Street Name: Multi-Modal Improvements	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 607 KDOT #:		2023	Local	PE	\$0	\$0	\$100
Length (mi): 1.10	Location: Massachusetts St 14th St. to 23rd St.	2024	Local	CONST	\$0	\$0	\$1,500
Project Type: Safety	Work Type: Pedestrian & Bicycle Work, Mill/Overlay, Safety						
Date Added: Last Revised							
Description: 2014 AARP report recommended bike/ped facilities on Mass. St. and intersection improvements at	Comments: Mass. St. (11th-14th) reconfigured using 2018 KDOT safety funds. Mass. St. (14th-21st) is a gap in future primary network in T2040 & Lawrence						
19th/Mass. Construction of project anticipated in 2024 with street maintenance project. Project pending state grant funds (HSIP or TA).	Bikes. Connect to 21st St. Bike Blvd providing access to Iowa St. Complete a gap & provide multimodal downtown.	Federal	\$0	Non-Federal	\$1,600	Grand	



Project Sponsor:		Project South Lawrence Trafficway Widening Study Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 700 K	DOT #: KA-3634-01		2018		PE	\$0	\$4,000	4
Length (mi): 8.40		Location: K-10 West Leg in Douglas County US 59/K10/Iowa to I70/KTA/K10 Junction	2018	State	ROW	\$0	\$175	4
Project Type: Othe	er	Work Type: Road Widening						
Date Added: 2/2019	Last Revised:	Revison History:						
Description: Study K10 becomin This project will rev issues, current trans impacts on current configurations and environmental docu	iew project area sportation needs, projects, interchange reevaluate the	Comments: This project will include traffic analysis, full field survey and Public involvement. This project will include selected R/W acquisition as parcels become available.						
preferred improvem		Project is authorized for PE & ROW ONLY.	Federal Total:	\$0	Non-Federal Total:	\$4,175	Grand Total:	\$4,175
Project Sponsor:	KDOT	Project K-10 (US-40) & 27th St/Waka. Intersection	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 705 K	DOT #: KA-3634-08	Name: Improvements	2019		PE	\$0	\$1,089	\$
Length (mi): 0.00		Location: K-10 and 27th St/Wakarusa	2020	HSIP	CONST	\$768	\$0	\$
			2020	State	CONST	\$0	\$185	\$
Project Type: Othe	er	Work Type: Geometric Improvement						
Date Added: 8/2019	Last Revised: 6/2022	Revison History: FFY21 A6						
Description: 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 &		Comments: This project is tied to project 136 (KA-5485-01) for letting purposes.						
reconstruct sidewal Permanent seeding	0		Federal Total:	\$768	Non-Federal Total:	\$1,274	Grand Total:	\$2,042



Project Sponsor:	Lawrence	Project Traffic Signal Coordination Study Name:	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 706	KDOT #:		2019		PE	\$0	\$0	\$300
Length (mi): 0.00		Location: Arterial streets	202	Local	PE	\$0	\$0	\$170
Project Type: Inte	ersection	Work Type: Operating, Planning, Signal						
Date Added: 8/2019	Last Revised: 10/2021	Revison History: FFY21 A4						
Description:		Comments:						
traffic signal syste operations and dev	velopment of a long- fic signal coordination	Project will improve traffic mobility and efficiency. Phase 2 will include 4 more corridors.						
			Federal Total:	\$0	Non-Federal Total:	\$470	Grand Total:	\$470