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## RADCLIFF/ELIZABETHTOWN METROPOLITAN PLANNING ORGANIZATION

### TRANSPORTATION IMPROVEMENT PROGRAM 2022 - 2026

SEPTEMBER 16, 2021



LINCOLN TRAIL AREA DEVELOPMENT DISTRICT  
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## **Agency Organization**

The Radcliff/Elizabethtown Metropolitan Planning Organization (MPO) is the planning agency for the Radcliff/Elizabethtown urbanized area. The full planning area for the MPO includes all of Hardin and Meade counties. The MPO is housed within the Lincoln Trail Area Development District (LTADD). The LTADD staff serves as the planning staff for the MPO. The MPO conducts the transportation planning process to meet the “continuing, comprehensive and cooperative” transportation planning requirements of the 1962 Federal-Aid Highway Act.

The MPO is governed by the MPO Policy Committee, which consists of the local elected officials from Hardin County, Meade County, Elizabethtown, Radcliff, and Vine Grove. The Policy Committee also has representatives from Fort Knox and the Kentucky Transportation Cabinet.

The MPO also has a Technical Advisory Committee (TAC), which meets on a bi-monthly basis and makes recommendations to the Policy Committee. The TAC is composed of engineers, planners, and other technical staff from local governments, Fort Knox, the Federal Highway Administration (FHWA), and the Kentucky Transportation Cabinet (KYTC). The positions and experience of these individuals enable them to assist the Policy Committee in the evaluation of the technical aspects of transportation and regional planning.

## **Transportation Improvement Program (TIP)**

The fiscal year (FY) 2022-2026 Transportation Improvement Program (TIP) is a five (5) year long, fiscally constrained, short-range program, which provides a prioritized list of multimodal transportation projects within the Radcliff/Elizabethtown MPO planning area.

Preparation of the TIP is required by Federal legislation known as Fixing America’s Surface Transportation Act (Pub. L. 114-94, FAST) and by the Metropolitan Planning Regulations (23 CFR 450.326) of the United States Department of Transportation (DOT). Federal regulations as defined in 23 CFR Part 450 and 49 CFR Part 613, require that Radcliff/Elizabethtown MPO’s transportation planning activities, including the development of the TIP, to be carried out in a Continuing, Cooperative, and Comprehensive manner (the “3C” approach).

The TIP provides an overview of how transportation revenues will be invested over a four (4) year minimum period by state and local agencies that have legal responsibility to build, operate, and maintain the state’s highway, street and public transit systems. Federal law requires expenditures in the TIP to be consistent with the Radcliff/Elizabethtown MPO Metropolitan Transportation Plan (MTP). The Radcliff/Elizabethtown MPO’s 2045 MTP was adopted in January of 2020. The Radcliff/Elizabethtown MPO develops the TIP collaboratively with local governments, transit and transportation agencies, and the Kentucky Transportation Cabinet (KYTC). Once adopted by the Radcliff/Elizabethtown MPO, the TIP will be sent to the office of the Governor of Kentucky for approval, and then included in KYTC’s Statewide Transportation Improvement Program (STIP).

To help track project delivery and the status of the TIP projects, federal regulations require the Radcliff/Elizabethtown MPO to publish an Annual Listing of Obligated Projects report. This report, produced toward the end of each calendar year, lists all transportation projects in the Radcliff/Elizabethtown MPO planning area for which federal funds were obligated in the preceding fiscal year.

In summation, the TIP:

- Covers a minimum four (4) year period;
- Is realistic in terms of available funding (“fiscally constrained”) as opposed to simply serving as a “wish list” of projects;
- Has funding committed for the projects scheduled in the first two (2) years and the second two years have funding that is reasonably anticipated to be available.
- Is approved by the MPO and the Governor of Kentucky
- Lists all federally funded and regionally significant local and state funded projects

Can the TIP be changed after it is adopted?

The approved TIP can be amended or administratively modified to add new projects, delete projects, advance projects, and accommodate cost, phase of work, and scope changes to a project. Major changes require an amendment and must go through public review and comment. More information on these processes is included on pages 11 and 12, under TIP Amendments/Administrative Modifications.

What does the TIP show?

The TIP not only lists specific projects, but also documents the anticipated schedule and cost for each project phase, for example: preliminary engineering (PE), right-of-way (R) acquisition, utility (U) relocation, and construction (C).

What kind of projects does the TIP include?

The TIP is multimodal, and as such, it includes safety, transportation enhancement, recreational trails, public transportation, bicycle, pedestrian, and highway improvements.

What funding sources are included in the TIP?

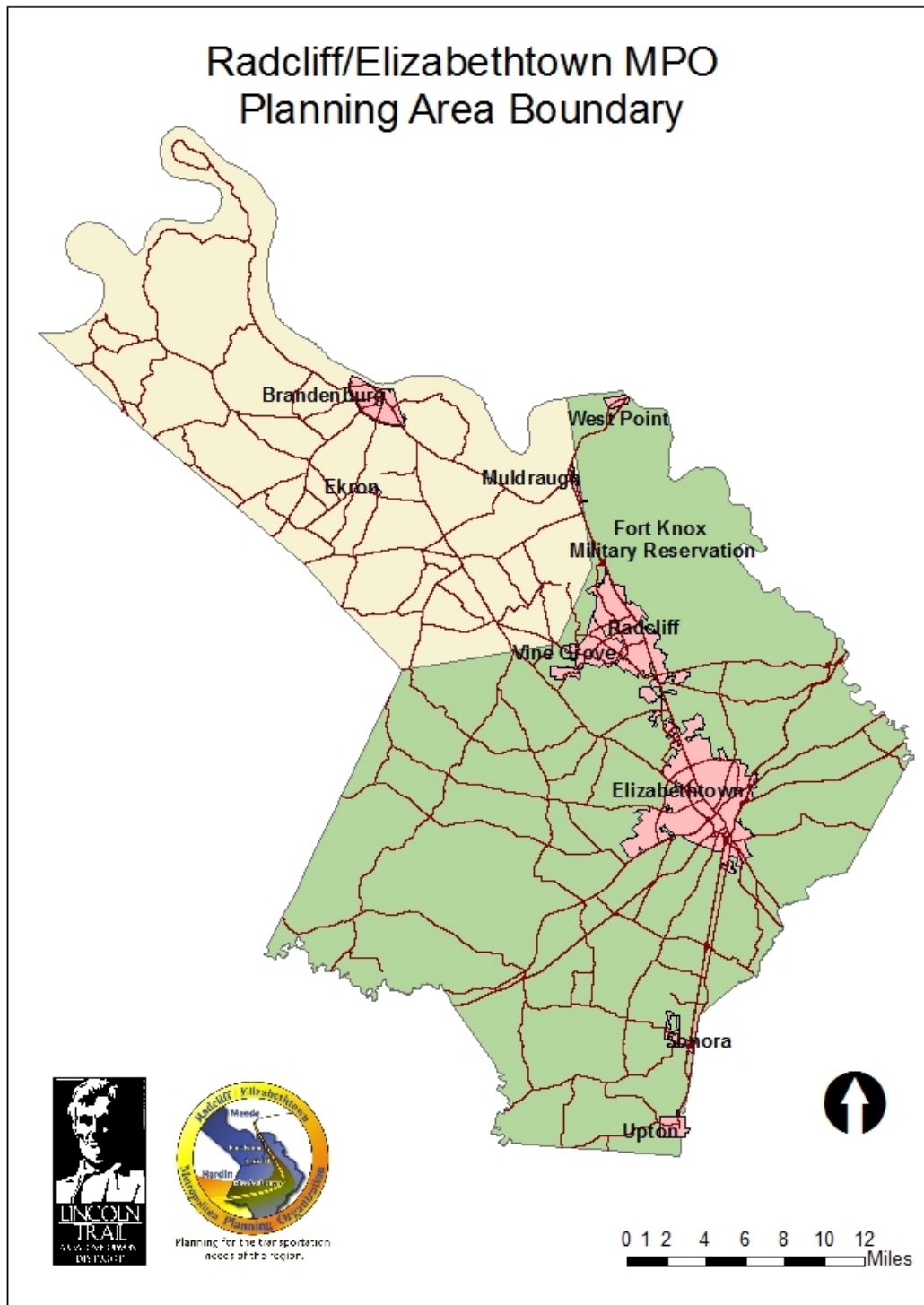
The TIP includes all federally-funded and state funded projects that are considered regionally significant. Most funding sources for the projects in the TIP come from federal funds allocated to Kentucky under the FAST Act and administered through the US Department of Transportation’s Federal Highway Administration (FHWA) and Federal Transit Administration (FTA). For most funding sources, projects are funded using an 80/20 split, with 80 percent in federal funds and the remaining 20 percent in state or local matching funds.

There are some funding sources that require less than a 20 percent match (90/10) or are 100 percent federally funded. The share of funding is noted in the tables on pages 10 and 11.

**MPO Transportation Planning Area**

The MPO is responsible for identifying and addressing the transportation needs within its designated study area. The transportation study area for the Radcliff/Elizabethtown MPO includes all of Hardin and Meade Counties. The planning area includes the cities of Radcliff, Elizabethtown, Vine Grove, West Point, Sonora, and Upton in Hardin County and Brandenburg, Ekron, and Muldraugh in Meade County. The planning area also includes the Fort Knox Military Reservation, which encompasses portions of both counties. Figure 1, on page 3, is a map of the MPO planning boundary.

Figure 1



## **MPO Transportation Planning**

The Radcliff/Elizabethtown Metropolitan Planning Organization (MPO) is responsible for coordinating transportation-planning activities within the planning area of Hardin and Meade Counties. The MPO is in charge of developing and maintaining a long-range Metropolitan Transportation Plan (MTP) and a short-range Transportation Improvement Program (TIP).

The TIP document has been prepared to address and record transportation needs scheduled between 2022 and 2026. The TIP is the compilation of publicly funded transportation projects constrained to available funding levels. It is the MPO's program for improvements for all modes of transportation, including highways, safety, public transportation, bicycle/pedestrian facilities, recreational trails, transportation enhancements, and railroad crossing projects. The TIP is also a mechanism by which the local governments, acting together in a coordinated effort, place system improvements in a comprehensive perspective in order to allocate limited resources in the most beneficial manner.

For any transportation improvement to be eligible for Federal-aid funding, it must be included in the TIP. The transportation improvements must initially be identified in the MPO's Metropolitan Transportation Plan (MTP). Once a project is adopted into the MTP, it can be then programmed in the TIP. The TIP process involves a comprehensive and realistic appraisal of the transportation needs of the community, balanced with available resources to finance those needs.

## **Project Origination and Prioritization**

Transportation projects can originate from a wide variety of sources including public input, elected official input, and technical analysis. All identified projects must be adopted into the MPO Metropolitan Transportation Plan (MTP) prior to being programmed into the TIP. The MTP is a document that identifies transportation needs over a 20+ year period and is required, by federal law, to be updated at least every five years. As previously mentioned, the TIP is a multi-year document that must be updated every four (4) years. However, both the MTP and the TIP may be amended and/or modified at anytime.

The MPO Policy Committee (the Judge/Executives of Hardin and Meade Counties, the Mayors of Brandenburg, Elizabethtown, Radcliff and Vine Grove, the Secretary of the Kentucky Transportation Cabinet, and a representative of the Fort Knox Military Reservation) is afforded the opportunity to identify projects that serve to implement the MTP.

Prior to projects being selected for the TIP, each project is evaluated and ranked through the MPO's Metropolitan Transportation Plan process. This evaluation process is based on the MPO's goals and objectives. The goals and objectives of the MPO are based on the ten (10) federal planning factors. The MPO goals and planning factors are listed below. In applying the evaluation process, each project receives a rating of 1 to 5 for each objective. All ratings are then averaged for each project. All projects are ranked objectively through this process. The MPO Technical Advisory and Policy

Committees are given an opportunity to review the rankings and make changes as deemed necessary.

The Kentucky Transportation Cabinet (KYTC) also has a prioritization process for projects listed in the Continuous Highway Analysis Framework (CHAF). All proposed highway projects for the MPO are identified in the CHAF database. In 2017, KYTC developed a new data-driven process to prioritize projects called Strategic Highway Investment Formula for Tomorrow (SHIFT). The SHIFT process utilizes data related to safety, congestion, asset management, economic growth, and benefit cost to provide a technical score for each project. The technical score makes up 70% of the scoring process. The MPO utilizes its planning process to evaluate and add points to boost project scores, which makes up 15% of the overall project score. The final 15% comes from the KYTC Highway Districts through their own planning process. This process will be utilized every two (2) years to prioritize projects in preparation for the development of the KYTC Highway Plan.

Through these prioritization and ranking processes, projects are programmed in the KYTC's Highway Plan and ultimately in the MPO TIP.

### **Federal Planning Factors**

1. Support the economic vitality of the United States, the States, non-metropolitan areas, and metropolitan areas, especially by enabling global competitiveness, productivity, and efficiency;
2. Increase the safety of the transportation system for motorized and non-motorized users;
3. Increase the security of the transportation system for motorized and non-motorized users;
4. Increase the accessibility and mobility of people and for freight;
5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;
6. Enhance the integration and connectivity of the transportation system, across and between modes throughout the State, for people and freight;
7. Promote efficient system management and operation;
8. Emphasize the preservation of the existing transportation system.
9. Improve the resiliency and reliability of the transportation system and reduce or mitigate storm water impacts on surface transportation; and
10. Enhance travel and tourism.

### **MPO Goals and Objectives**

#### **1. Promote Transportation Safety**

- Reduce the number and severity of traffic accidents by improving existing and potential high crash locations
- Improve substandard roadway geometrics where necessary
- Support and/or undertake public education programs to emphasize safety and promote safe driving practices



- Provide improved conditions to enhance emergency services

## **2. Preserve Existing Transportation Facilities & Systems**

- Consider costs and benefits of improvements in the MPO planning process
- Emphasize reconstruction and upgrades to existing highway systems
- Apply access management principles to aid in preserving the existing highway network
- Identify and implement minor construction and traffic operational improvements to improve traffic flow and safety

## **3. Provide an Efficient Transportation System**

- Reduce traffic congestion and improve travel times in the region
- Plan for both existing and future travel demand
- Promote cost efficiency in the implementation and/or operation of transportation facilities and/or improvements
- Encourage the implementation of access management policies to improve the overall efficiency of the transportation system
- Improve the overall capacity of the highway network

## **4. Enhance Connections Between Transportation Systems**

- Provide for frequent and convenient transfer between all modes of transportation
- Where justified, provide new highway connections to provide improved access and mobility for the overall transportation system in the area
- Promote improved access to intermodal transportation facilities

## **5. Support Community Development & Economic Growth**

- Provide transportation service for areas of new growth and potential development
- Provide transportation service to aid in preserving existing communities and developments
- Where possible, provide transportation improvements to areas experiencing economic decline

## **6. Increase access and mobility for the movement of freight**

- Provide new or improved transportation options and/or connections for economic centers that depend on freight

## **7. Provide a Balance Between Development and Quality of Life**

- Recognize the need for transportation improvements, but be sensitive to environmental, social, and cultural resources in doing so

## **8. Enhance alternatives to traditional automobile/highway travel, such as transit, bicycle, and/or pedestrian travel**

- Where possible and warranted, encourage the incorporation of bicycle/pedestrian facilities into major improvement projects
- Study the potential need and possible implementation of a public transit system in the Elizabethtown/Fort Knox/Radcliff/ Vine Grove area

### **TIP Approval Process**

The TIP, once approved by the MPO Policy Committee, is the official document that directs the flow of transportation improvements in the MPO planning area. Following approval by the Policy Committee, the TIP is submitted to the Kentucky Transportation Cabinet (KYTC) who, in turn, submits it to the Federal Highway Administration and the Federal Transit Administration. KYTC uses the TIP as a basis for preparing its request for federal funding through their Statewide Transportation Improvement Program (STIP). The TIP is used by KYTC in the preparation of the Commonwealth's Highway Plan, which is approved by the state legislature every two (2) years and outlines KYTC's construction program over the next six (6) years for both state and federal funding.

### **Financial Constraint**

The Fixing America's Surface Transportation Act (FAST) requires that Transportation Improvement Programs be financially constrained. That is, this document should include the estimated cost associated with each project and the anticipated revenue source. Additionally, only those projects for which a current or proposed revenue source can be identified may be listed, thus ensuring a balance between total project costs and revenues. This requirement helps the MPO and the State develop a deliverable program of projects.

Although the Radcliff-Elizabethtown MPO has significant input in the identification of needs and the determination of project funding priorities, it should be understood that the MPO does not have direct control over any source of funding identified herein. Final decisions regarding the allocation of funds (project selection, revenue source, schedule, etc.) are made by the Kentucky Transportation Cabinet (KYTC). In order to address the full range of transportation needs, on a statewide level and within the Radcliff-Elizabethtown urbanized area, the Cabinet makes use of a variety of available revenue sources (or funding types). The revenue sources eligible and currently allocated for use within the Radcliff-Elizabethtown area are identified on Tables 1, 2, and 3 on pages 10 and 11.

The specific projects shown in the Project Listing tables beginning in Appendix A have been identified by KYTC, along with the associated programmed or planned revenue source and schedule, in the KYTC's Statewide Transportation Improvement Program and/or the Six Year Highway Plan. It should be expected that this program of projects will be subject to periodic changes in schedules and/or revenue sources due to adjustments that must be made to balance costs and revenues (or maintain financial constraint) at the statewide level, and also due to various project related delays. These changes will be initiated by the Cabinet and will be reflected in this document by TIP Administrative Modifications or Amendments.

The table on page 25 provides a summary of costs and revenues by funding type and year (all costs and revenues here and elsewhere in this document are shown in Year-of-Expenditure dollar values). A balance between costs and revenues is indicated; therefore, financial constraint is demonstrated.

### **Project Types and Project Funding Categories**

The type of funds to be utilized for the projects involving Federal and State funds are in accordance with the Fixing America's Surface Transportation Act (FAST) and are abbreviated as follows:

<b>Table 1 Kentucky Funding Sources</b>		
<b>Funding Program</b>	<b>Abbreviation</b>	<b>Source</b>
JP 2 BRAC Bond Projects - Second Program	BR2	KYTC
State Construction Projects	SP	KYTC
State Bonds	SB2	KYTC
State Bonds	SBP	KYTC
State Construction High Priority	SPP	KYTC

<b>Table 2</b> <b>Current Federal Funding Sources under the FAST Act</b>			
<b>Funding Program</b>	<b>Abbreviation</b>	<b>Source</b>	<b>Funding Share</b>
Surface Transportation Block Grant Program/Surface Transportation Program	STBG/STP	FHWA	80% Federal 20% Match
National Highway Performance Program	NHPP	FHWA	80% Federal 20% Match
Surface Transportation Block Grant Program set-aside for Transportation Alternatives	TA	FHWA	80% Federal 20% Match
Highway Safety Improvement Program	HSIP	FHWA	90% Federal 10% Match
Rail-Highway Crossings Program	RRX/RRP	FHWA	90% Federal 10% Match
Section 5307 Urbanized Area Formula	5307	FTA	80% Federal 20% Match
Section 5307 Operating Expenses	5307	FTA	50% Federal 50% Match
Section 5303 Planning Funds	5303	FTA	80% Federal 20% Match
Section 5309 Bus and Bus Facilities Program (Ladders of Opportunity)	5309	FTA	80% Federal 20% Match
Section 5310 Enhanced Mobility of Seniors and Individuals with Disabilities	5310	FTA	80% Federal 20% Match
Section 5337 State of Good Repair	5337	FTA	80% Federal 20% Match
Section 5339 Bus and Bus Facilities	5339	FTA	80% Federal 20% Match

<b>Table 3</b> <b>Carryover Federal Funding Sources from Previous Transportation Bills</b>			
<b>Funding Program</b>	<b>Abbreviation</b>	<b>Source</b>	<b>Funding Share</b>
Interstate Maintenance	IM	FHWA	90% Federal 10% Match
National Highway System	NHS	FHWA	80% Federal 20% Match
Transportation Alternatives Program	TAP	FHWA	80% Federal 20% Match
Federal Bridge Replacement - On-System	BRO	FHWA	80% Federal 20% Match
Federal Bridge Replacement - Off System	BRZ	FHWA	80% Federal 20% Match

### Public Participation

The 2022-2026 Transportation Improvement Program (TIP) was developed in accordance with the MPO Participation Plan. To ensure that the TIP received adequate public review, the Radcliff/ Elizabethtown MPO shared the TIP on the MPO website and through social media on Facebook and Twitter. The public comment period began on August 13 and ended on September 13, 2021. The document was also available for review at the Lincoln Trail ADD office in Elizabethtown. The MPO website is [www.radcliff-elizabethtown-mpo.org](http://www.radcliff-elizabethtown-mpo.org).

Summary of Public Comments is located in Appendix C.

### TIP Amendments/Administrative Modifications

Occasionally, project information currently listed in the document needs to be changed or projects need to be added or deleted. Project sponsors, such as the Kentucky Transportation Cabinet, local communities or transit agencies will inform the Radcliff/Elizabethtown MPO when such changes are needed to reflect current conditions for transportation projects.

#### Amendments

Amendment means a revision to the TIP, including the addition or deletion of a project or a major change in design concept or design scope (e.g. changing project termini or the number of through traffic lanes) that requires federal action and is not eligible for an Administrative Modification (see Administrative Modification description below). An amendment is a revision that requires public review and comment and redemonstration of fiscal constraint. An amendment to the TIP requires a 15-day public review and comment period and approval by the Policy Committee.

**Administrative Modifications**

Some changes to a transportation project are minor and only require an administrative modification to show the change in the TIP. Administrative modification means a minor revision to the TIP that includes changes to project costs or schedule (that do not impact fiscal constraint) and minor changes to funding sources of previously included projects. Additionally, certain types of projects (see Grouped Projects section on page 13) may be added to the TIP by administrative modification. An administrative modification is a revision that does not require public review and comment or a redemonstration of fiscal constraint.

Additional discussion of procedures that govern TIP Modifications and Amendments can be found in the MPO's Participation Plan ([https://radcliff-elizabethtown-mpo.org/wp-content/uploads/2021/04/2021\\_Participation\\_Plan.pdf](https://radcliff-elizabethtown-mpo.org/wp-content/uploads/2021/04/2021_Participation_Plan.pdf))

All TIP Amendments and Administrative Modifications will be placed on the MPO website at <https://radcliff-elizabethtown-mpo.org/index.php/library/transportation-improvement-plan/>.

**Air Quality**

Currently, the planning area for the Radcliff/Elizabethtown MPO is in attainment with all Federal air quality regulations. An attainment area is an area considered to have air quality that meets or exceeds the U. S. Environmental Protection Agency (EPA) health standards used in the Clean Air Act.

**Grouped Projects**

Transportation planning regulations applicable to the development and content of Transportation Improvement Programs allow that projects that are not considered to be of appropriate scale for individual identification in a given program year may be grouped by function, work type, and/or geographic area. Such projects are usually non-controversial and produce negligible impacts - other than positive benefits for safety, traffic operations, or preservation. Typically, these types of projects are not generated by the planning process; they are usually initiated by traffic operations or maintenance functions to correct existing problems or deficiencies, or they are the result of successful grant applications by local governments or entities. KYTC identifies many of these types of projects as "Z-Various" in the Statewide Transportation Improvement Program. For the reasons noted above, KYTC and FHWA have developed streamlined procedures for incorporating such projects into the TIP. Individual projects from grouped project categories will be incorporated into the TIP by Administrative Modification as they are defined (in terms of project description, scope, and cost) and approved. Allowing such TIP changes to be made by Administrative Modification, rather than Amendment (and the corresponding requirement for public review and demonstration of fiscal constraint), simplifies and streamlines TIP maintenance and project approval processes.

Grouped project categories utilized by the Radcliff-Elizabethtown MPO are shown in Table 4. The list of grouped projects utilized here is a combination and simplification of

two lists recommended by the “KYTC and MPO Coordination – Final Recommendations of the Consolidated Planning Guidance Process Team”, July 20, 2007. This was done for applicability to the Radcliff-Elizabethtown area and to facilitate understanding by MPO committee members and the public. By listing these project types in the TIP, planning process stakeholders and the general public are informed of the types of potential projects that may be added to the TIP in the future via streamlined procedures. TIP actions for these projects will not require additional public review, demonstration of fiscal constraint, or a conformity determination (if applicable).

With respect to financial constraint for grouped projects, the reader is referred first to the Financial Constraint section of this document on pages 8 and 9 for a discussion of the relative roles of the MPO and the Kentucky Transportation Cabinet. The dollar amounts shown in the Grouped Projects Table are illustrative (and minimal) project cost amounts based on past experience and reasonableness. These numbers are included per recommended guidance and should not be interpreted as expected project awards or expenditures for any particular year. Rather than future commitments of funding, these numbers are illustrative of a reasonable level of total funding for the various types of grouped projects that, potentially, could be approved within a particular year. When projects are identified, with estimated costs, and funding decisions (type of funds and year) are made by the Transportation Cabinet (on an annual or ongoing basis), the Cabinet will forward the project to the MPO for inclusion in the TIP - with a commitment of additional funding within financially constrained balances available on a statewide level. It should be expected that the costs of some individual projects may significantly exceed the amounts in the Grouped Projects Table. Financial constraint for grouped projects is maintained by KYTC on a statewide level and is demonstrated on an annual basis for the Statewide Transportation Improvement Program.

<b>Table 4</b>
<b>Grouped Projects</b>
HSIP - Highway Safety Improvement Program Implementation
Intersection Improvements for Safety or Efficiency
Guardrail, Median Barrier, and Crash Cushion Projects
Railroad/Highway Crossing Protection
Other Highway Safety Improvements
Intelligent Transportation System (ITS) Projects
Traffic Signal System Improvements
Highway Signing
Pavement Resurfacing, Restoration, and Rehabilitation
Pavement Markers and Striping
Bridge Replacement (no additional lanes)
Bridge Rehabilitation
Bridge Inspection
Bridge Painting
Recreational Trails Program
Transportation Alternatives Projects (TAP)
Commuter Ridesharing Programs
Bicycle and Pedestrian Facilities*
Park & Ride Facilities
Purchase of New Buses (to replace existing vehicles or for minor expansion)
Rehabilitation of Transit Vehicles
Transit Operating Assistance
Transit Operating Equipment
Transit Passenger Shelters and Information Kiosks
Construction or Renovation of Transit Facilities
<b>*Including pedestrian facility improvements identified in Local Public Agency Transition Plans to meet requirements of the Americans With Disabilities Act (ADA).</b>

### **Completed Projects from the Previous Radcliff/Elizabethtown MPO TIP**

As required by Federal law, below is a table of projects from the FY 2018-2022 TIP that have been completed.



<b>Table 5</b> <b>Radcliff/Elizabethtown MPO</b> <b>Transportation Improvement Program</b> <b>FY 2022-2026</b> <b>Complete Projects from 2018 TIP</b>			
<b>ROUTE</b>	<b>KYTC ID</b>	<b>COUNTY</b>	<b>DESCRIPTION</b>
US 31W	4-199.00	Hardin	Replace bridge over P&L and CSX Railroads (MP 36.4 to 36.8 in West Point)
WK 9001	4-2066.00	Hardin	Mill and intermediate asphalt overlay on the Western Kentucky Parkway (9001) from 0.059 miles northeast of Rhudes Creek Bridge (MP 130.948), extending northeast ending 0.584 miles southwest of US 31 overpass (MP 130.100 in Hardin County).
BG 9002	4-2068.00	Hardin	Concrete inlay and repairs on the Bluegrass Parkway (9002) from I-65 interchange (MP 0.000) extending east and ending 0.720 miles east of Miller Road (MP 5.820) in Hardin County.
US 62	4-1093.00	Hardin Nelson	Address deficiencies of bridge on US 62 over Rolling Fork at the Hardin/Nelson County Line.
KY 823	4-1088.00	Meade	Replace bridge over unnamed stream on KY 823 0.5 mile west of KY 2734
KY 220	4-10010	Hardin	Address deficiencies of KY 220 bridge over Martins Branch Creek
KY 2212	4-10011	Hardin	Address deficiencies of KY 2212 bridge over Pawley Creek
KY 2800	4-10012	Hardin	Address deficiencies of KY 2800 bridge over Sandy Creek
CR 1100	4-10013	Hardin	Address deficiencies of Bewley Hollow Road bridge over Mill Creek
BG 9002	4-20007	Hardin	Address pavement condition of Martha Layne Collins Bluegrass Parkway both directions from milepoint 5.82 to milepoint 8.837
US 31W	4-20011	Hardin	Address Pavement Condition
US 31W	4-20012	Hardin	Address Pavement Condition
WK 9001	4-20018	Hardin	Address pavement condition of Wendell H. Ford Western Kentucky Parkway both directions from milepoint 132.4 to milepoint 134.923
US31W	4-9008.00	Hardin	Intersection and Corridor Improvements to Enhance Safety and Capacity along US 31W from Ring Road to Graham Avenue
US 31W	4-9008.10	Hardin	Intersection and Corridor Improvements to Reduce Conflict Points and Enhance Safety and Capacity along US 31W from Diecks Drive to Warehouse Court

<b>Table 5</b> <b>Radcliff/Elizabethtown MPO</b> <b>Transportation Improvement Program</b> <b>FY 2022-2026</b> <b>Complete Projects from 2018 TIP</b>			
<b>ROUTE</b>	<b>KYTC ID</b>	<b>COUNTY</b>	<b>DESCRIPTION</b>
US 31W	4-9008.20	Hardin	Intersection and Corridor Improvements to Reduce Conflict Points and Enhance Safety and Capacity along US 31W from Walmart Drive to Skyblue Avenue
US 31W	4-9008.30	Hardin	Intersection and Corridor Improvements to Reduce Conflict Points and Enhance Safety and Capacity along US 31W from Pear Orchard Road to Pine Valley Drive
US 31W	4-9008.40	Hardin	Intersection and Corridor Improvements to Reduce Conflict Points and Enhance Safety and Capacity along US 31W from First Street to KY 1500
Various	4-990.00	Hardin & Other Dist. 4 Counties	Installation of Pavement Markers on Various Routes in District 4 (Hardin County Routes - US 31WB, KY 61, and KY 251)
I-65	4-20032.00	Hardin	Repair and grind PCC pavement from just south of Joe Prather Highway (MP 102.100) extending north to the Bullitt County line (MP 103.308).
KY 313	4-170.00	Hardin	Widen KY 313 to 4 lanes between Patriot Parkway and the Bullion Blvd Connector

## Table 6 Federally-Funded Highway Projects/ Individual Project Sheets

Table 6 Radcliff/Elizabethtown MPO Transportation Improvement Program FY 2022-2026 Federally-Funded Highway Projects										
ROUTE	KYTC ID	COUNTY	TYPE OF WORK	DESCRIPTION	TYPE OF FUNDS	PHASE	YEAR	COST	TOTAL PROJECT COST	RESPONSIBLE AGENCY
I-65	4-20.01	Hardin	Interchange Reconstruction	Improve the safety and increase the capacity of the I-65/KY 222 interchange based on existing and future needs of the area (MP 85.313 to MP 86.064)	NHPP/NH	C	2022	\$15,000,000	\$33,000,000	KYTC
						C	2023	\$18,000,000		
KY 251	4-153.01	Hardin	Spot Improvements	KY 251 Improvements from KY 3005 to KY 434 (MP 2,681 to MP 6,288)	STP	U	2022	\$4,200,000	\$8,550,000	KYTC - Dist. 4
						C	2023	\$4,350,000		
US 31W	4-154.20	Hardin	Safety & Congestion Mitigation	Operational improvements on US 31W from US 31W Bypass to KY 447 to improve safety and traffic flow (MP 18.818 to MP 20.772)	STP	C	2020	\$2,750,000	\$2,750,000	KYTC - Dist. 4
I-65	4-286.10	Hardin	Weigh Station Rehabilitation	I-65 Southbound Port of Entry for a Commercial Vehicle Monitoring Station (MP 81,950 to MP 82,050)	IM	C	2022	\$15,690,000	\$15,690,000	KYTC
US 62	4-442.00	Hardin	Reconstruction	Improve safety, mobility, and geometrics on US 62 from I-65 to Upper Colesburg Road (CR-1038) - (MP 20.104 to MP 23.351)	STP	D	2023	\$1,500,000	\$26,100,000	KYTC - Dist. 4
						R	2025	\$3,000,000		
						U	2025	\$3,000,000		
						C	Future	\$18,600,000		
KY 210	4-4311.00	Hardin	Safety - Guardrail	Install Guardrail on KY 210 in Hardin County. (MP 0.040 to MP 0.130)	STP	C	2023	\$18,000	\$18,000	KYTC - Dist. 4
KY 1357	4-8801.00	Hardin	Safety	Improve Safety, Geometrics, Drainage, and Maintenance Issues along KY 1357 (St. John Rd) from US 31W Bypass to KY 3005 (Ring Road) - (MP14.614 to 16.292)	STP	U	2021	\$3,500,000	\$11,500,000	KYTC - Dist. 4
					C	2023	\$8,000,000			

Table 6 Radcliff/Elizabethtown MPO Transportation Improvement Program FY 2022-2026 Federally-Funded Highway Projects										
ROUTE	KYTC ID	COUNTY	TYPE OF WORK	DESCRIPTION	TYPE OF FUNDS	PHASE	YEAR	COST	TOTAL PROJECT COST	RESPONSIBLE AGENCY
US 31W	4-9008.50	Hardin	Safety	Intersection Improvements on US 31W from Diecks Drive to Pine Valley Drive to Reduce Conflict Points and Enhance Safety and Traffic Flow (MP 18.033 to MP 21.143)	HSIP	C	2020	\$4,911,000	\$4,911,000	KYTC - Dist. 4
US 31W	4-9011.10	Hardin	Safety	Update the Signing, Install Lane Separator Curb, and Upgrade the Traffic Signal to include Reflective Backplates at the Intersection of US 31W and KY 1136. (MP 15.7 to MP 159)	HSIP	C	2022	\$35,000	\$35,000	KYTC - Dist. 4
US 31W	4-9011.20	Meade	Safety	Update the Signing, Install Lane Separator Curb, and Upgrade the Traffic Signal to include Reflective Backplates at the Intersection of US 31W and KY 1638. (MP 2 to MP 2.3)	HSIP	C	2022	\$60,000	\$60,000	KYTC - Dist. 4
KY 361	4-9011.30	Hardin	Safety	Improve the Left Turn Lanes along KY 361, Update the Signing, and Upgrade the Traffic Signal to include Reflective Backplates and Supplemental Heads at the intersection of KY 361 and KY 3005. (MP 1.6 to MP 2.0)	HSIP	C	2022	\$375,000	\$375,000	KYTC - Dist. 4
US 31W	4-9011.40	Hardin	Safety	Update the Signing and Upgrade the Traffic Signal to include Double Red Heads at the Intersection of US 31W and Elm Road. (MP 28.2 to MP 28.4)	HSIP	C	2022	\$15,000	\$15,000	KYTC - Dist. 4

Table 6 Radcliff/Elizabethtown MPO Transportation Improvement Program FY 2022-2026 Federally-Funded Highway Projects										
ROUTE	KYTC ID	COUNTY	TYPE OF WORK	DESCRIPTION	TYPE OF FUNDS	PHASE	YEAR	COST	TOTAL PROJECT COST	RESPONSIBLE AGENCY
Various Local Routes	4-9012.00	Hardin	Safety	Preliminary Design and Study of Mini-Roundabouts at Various Intersections within the City of Elizabethtown (N. Main St. at Crutcher St.; Dolphin Dr. at Josale Dr.; Commerce Dr. at Executive Dr.; N. Main St. at Poplar St.; Woodland Dr. at Layman Ln.; W. Poplar St. at Sycamore St.; and W. Poplar St. at N. Mantle Ave.)	HSIP	D	2019	\$550,000	\$1,050,000	KYTC - Dist. 4
						R	2021	\$300,000		
						U	2021	\$200,000		
CS 1430 (Dolphin Dr.)	4-9012.20	Hardin	Safety	Construct a Mini Roundabout at the Intersection of Dolphin Dr. & Josale Dr. (MP 0.020 to MP 0.170)	HSIP	C	2021	\$265,000	\$265,000	KYTC - Dist. 4
CS 1108 (Commerce Dr.)	4-9012.30	Hardin	Safety	Construct a Mini Roundabout at the Intersection of Commerce Dr. & Executive Dr. (MP 0 to MP 0.2)	HSIP	C	2021	\$350,000	\$350,000	KYTC - Dist. 4
CS 1193 (Woodland Dr.)	4-9012.50	Hardin	Safety	Construct a Mini Roundabout at the Intersection of Woodland Dr. & Layman Ln. (MP 1.098 to MP 1.190)	HSIP	C	2021	\$240,000	\$240,000	KYTC - Dist. 4
CS 1068 (W. Poplar St)	4-9012.60	Hardin	Safety	Construct a Mini Roundabout at the Intersection of Poplar St. & Sycamore St. (MP 0.774 to MP 0.844)	HSIP	C	2021	\$250,000	\$250,000	KYTC - Dist. 4
CS 1068 (W. Poplar St)	4-9012.70	Hardin	Safety	Construct a Mini Roundabout at the Intersection of W. Poplar St. & N. Mantle Ave. (MP 0.704 to MP 0.744)	HSIP	C	2021	\$215,000	\$215,000	KYTC - Dist. 4

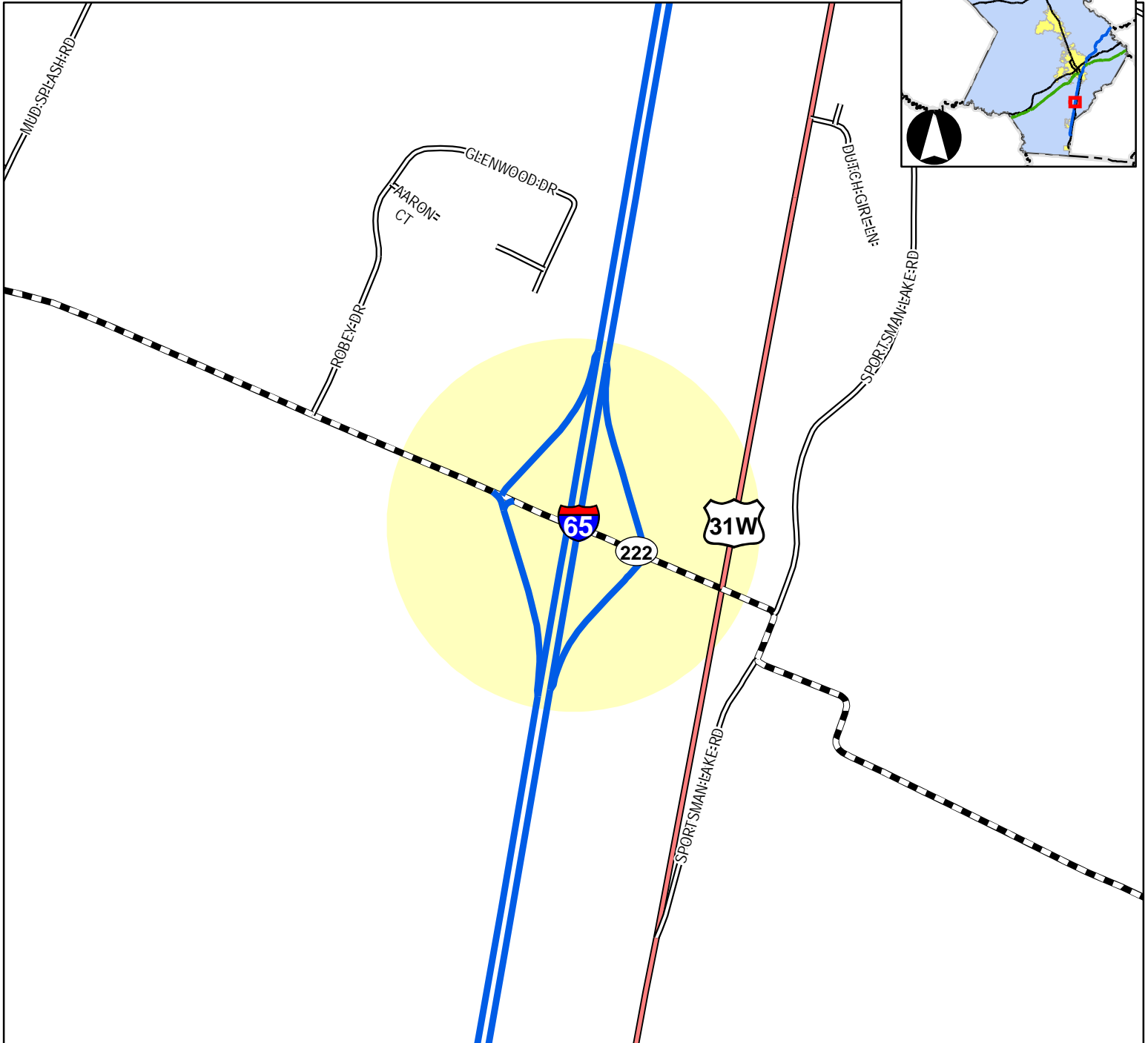
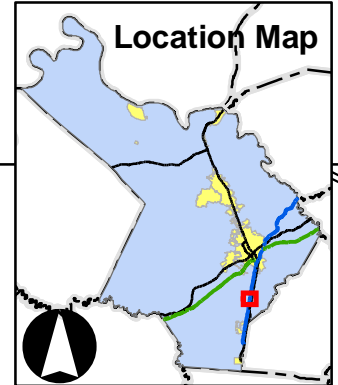
Table 6 Radcliff/Elizabethtown MPO Transportation Improvement Program FY 2022-2026 Federally-Funded Highway Projects										
ROUTE	KYTC ID	COUNTY	TYPE OF WORK	DESCRIPTION	TYPE OF FUNDS	PHASE	YEAR	COST	TOTAL PROJECT COST	RESPONSIBLE AGENCY
US 62	4-9015.00	Hardin	Safety	Perform Low Cost Safety Improvements on US 62 from MP 7.844 TO MP 10.900 in Hardin County. (2018BOP) - (MP 7.844 to MP 10.900)	HSIP	D	2021	\$200,000	\$1,155,000	KYTC - Dist. 4
						R	2021	\$15,000		
						U	2021	\$100,000		
						C	Future	\$840,000		
KY 251	4-9016.00	Hardin	Safety	Overlay and restripe KY 251 to convert from a 4-lane section to a 3-lane section between W Dixie Avenue and Pear Orchard Road and construct mini roundabouts along KY 251 at the intersections with W. Poplar St., Beech St., Panther Lane, and Pear Orchard Road (MP 0 to MP 1.458)	HSIP	D	2020	\$200,000	\$1,080,000	KYTC - Dist. 4
						R	2021	\$50,000		
						U	2021	\$30,000		
						C	2021	\$800,000		
KY 1136	4-9017.00	Hardin	Safety	Construction of a roundabout at the intersection of KY 1136 and US 31W Bypass (MP 9.751 to MP 10.123)	HSIP	D	2020	\$250,000	\$1,000,000	KYTC - Dist. 4
						R	2021	\$50,000		
						U	2021	\$100,000		
						C	2021	\$600,000		
US 31W	4-20011.00	Hardin	Asset Management - Pavement	Address Pavement Condition from MP 17.677 to MP 20.432	NH	D	2021	\$550,000	\$2,550,000	KYTC - Dist. 4
						C	2022	\$2,000,000		
US 31W	4-20011.10	Hardin	Asset Management - Pavement	Address Pavement Condition from MP 17.677 to MP 20.432	NH	C	2023	\$3,500,000	\$3,500,000	KYTC - Dist. 4
US 31W	4-20013.00	Hardin	Asset Management - Pavement	Address Pavement Condition from MP 27.732 to MP 29.5	STP	D	2025	\$325,000	\$3,575,000	KYTC - Dist. 4
						C	2026	\$3,250,000		

Table 6 Radcliff/Elizabethtown MPO Transportation Improvement Program FY 2022-2026 Federally-Funded Highway Projects										
ROUTE	KYTC ID	COUNTY	TYPE OF WORK	DESCRIPTION	TYPE OF FUNDS	PHASE	YEAR	COST	TOTAL PROJECT COST	RESPONSIBLE AGENCY
WK 9001	4-20015.00	Hardin	Asset Management - Pavement	Address Pavement Condition of Wendell H. Ford Western KY Parkway both direction(s) from MP 119.649 to MP 120.649	NH	D	2023	\$100,000	\$1,100,000	KYTC - Dist. 4
						C	2023	\$1,000,000		
WK 9001	4-20016.00	Hardin	Asset Management - Pavement	Address Pavement Condition of Wendell H. Ford Western KY Parkway both direction(s) from MP 120.93 (120.65 Non-Cardinal) to MP 132.4 (130.95 Non-Cardinal)	NH	D	2022	\$920,000	\$4,920,000	KYTC - Dist. 4
						C	2024	\$4,000,000		
US 62	4-20028.00	Hardin	Asset Management - Pavement	Address Pavement Condition on US-62 from MP 9.57 to MP 13.77	STP	C	2024	\$689,000	\$689,000	KYTC - Dist. 4



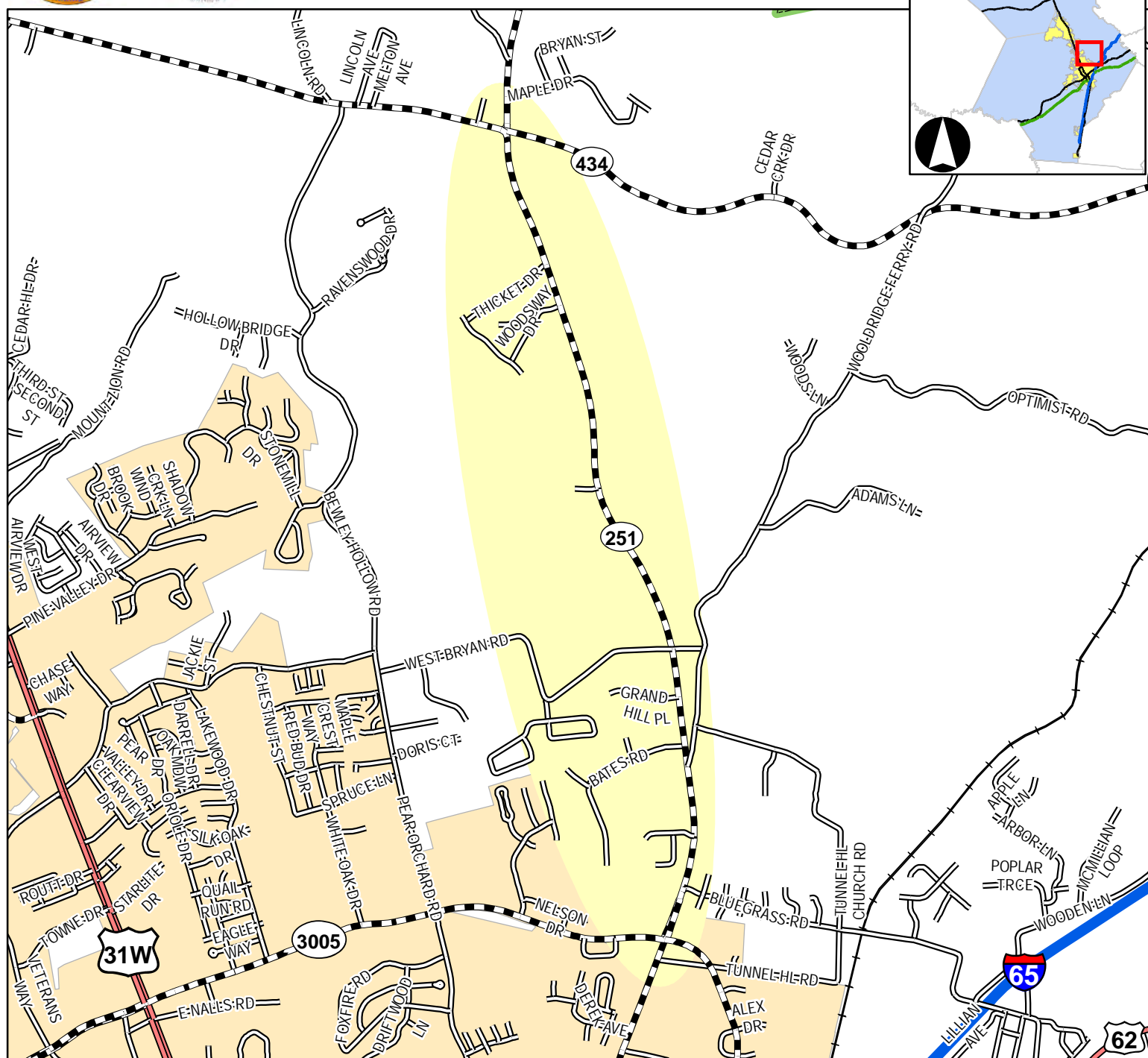
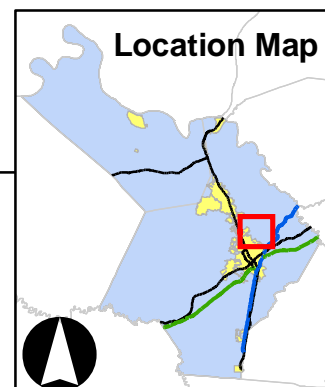
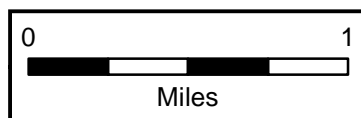
**Federally Funded Transportation Projects**  
**Radcliff/Elizabethtown MPO TIP (FY 2022-2026)**

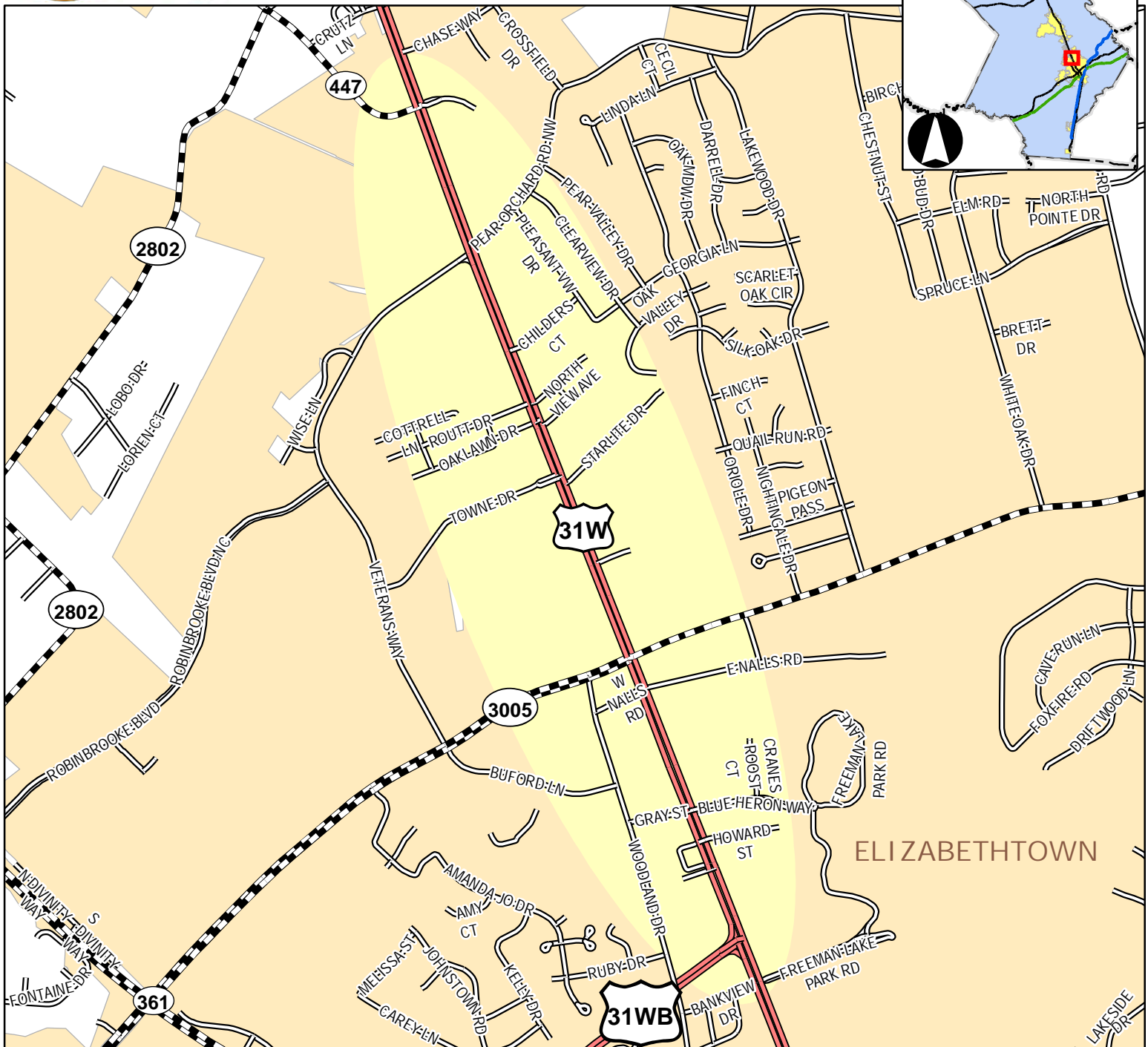
KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-20.01	I-65	Improve the safety and increase the capacity of the I-65/KY 222 interchange based on existing and future needs of the area							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
NH	C		\$15,000,000	\$18,000,000					\$33,000,000
<b>TOTAL</b>									<b>\$33,000,000</b>
<b>*Carryover from Previous TIP</b>									



Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

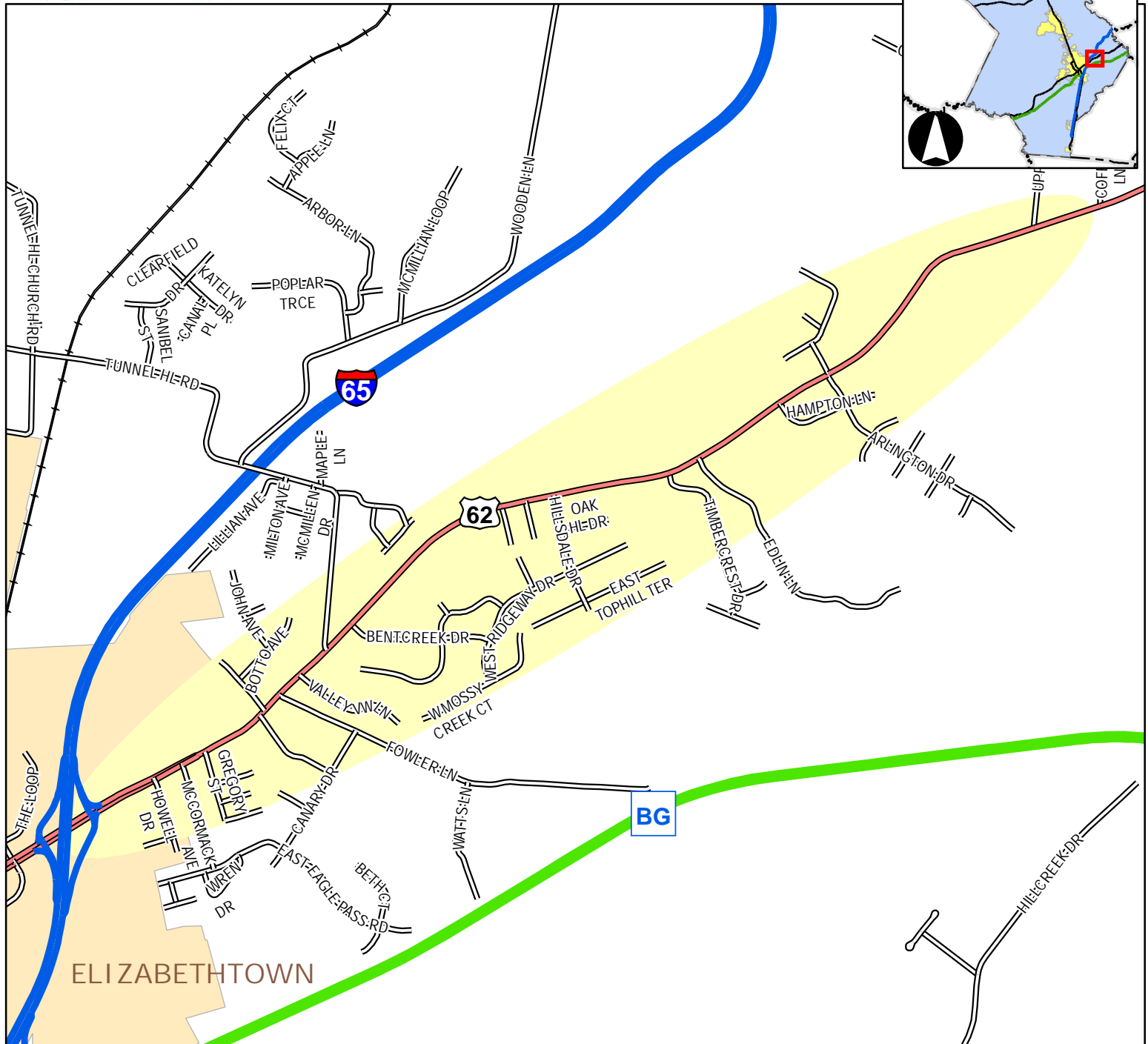
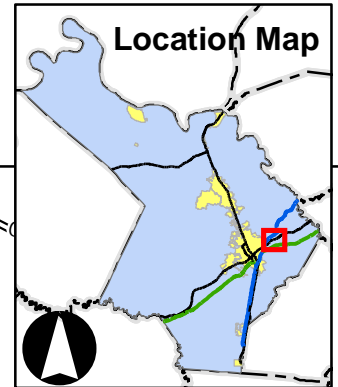
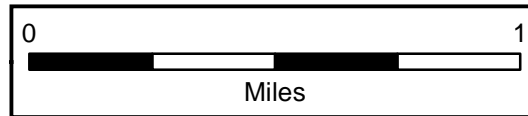
KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-153.01	KY 251	KY 251 Improvements from KY 3005 to KY 434							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
STP	U		\$4,200,000						\$4,200,000
STP	C			\$4,350,000					\$4,350,000
<b>TOTAL</b>									<b>\$8,550,000</b>
*Carryover from Previous TIP									





**Federally Funded Transportation Projects**  
**Radcliff/Elizabethtown MPO TIP (FY 2022-2026)**

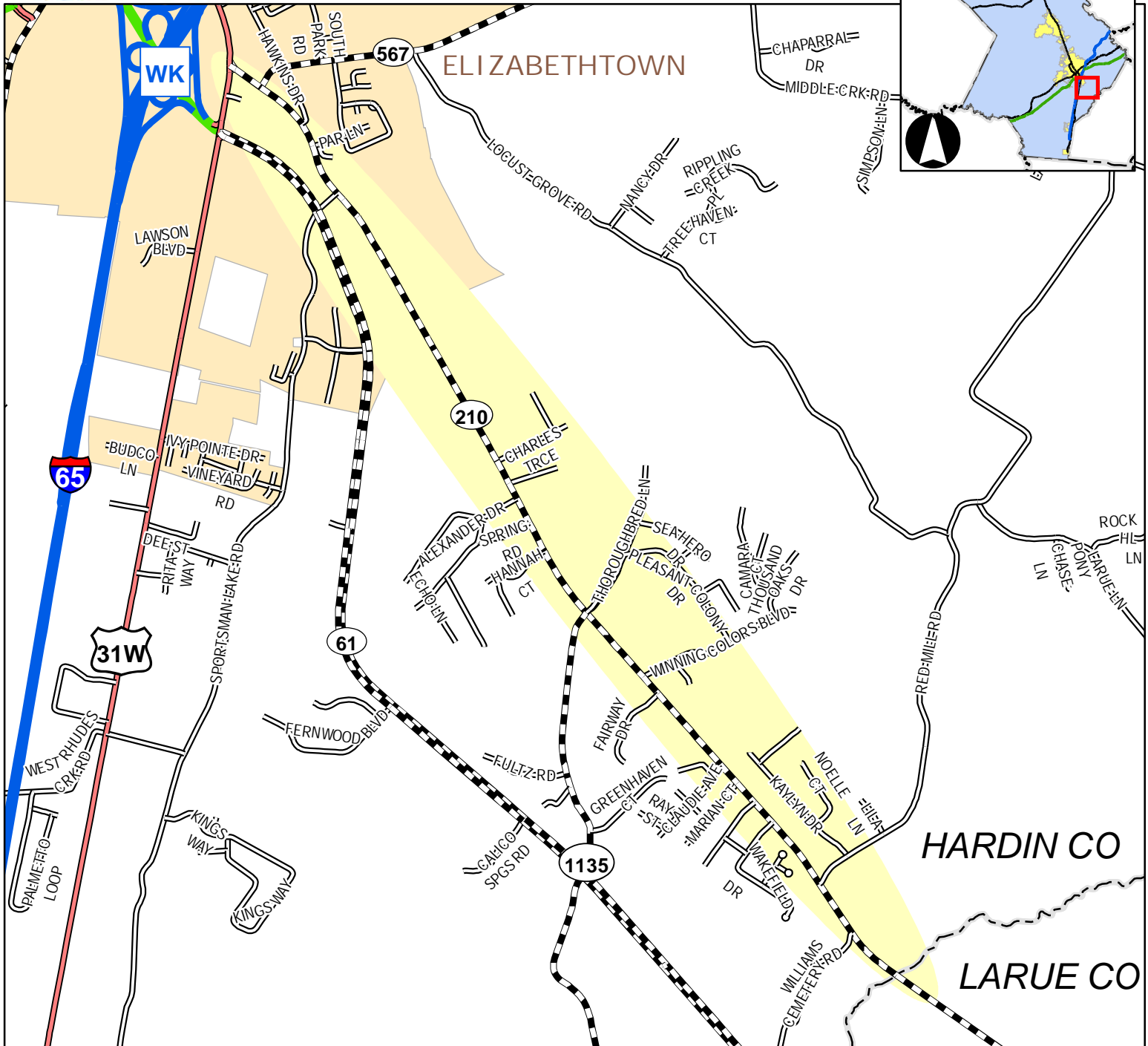
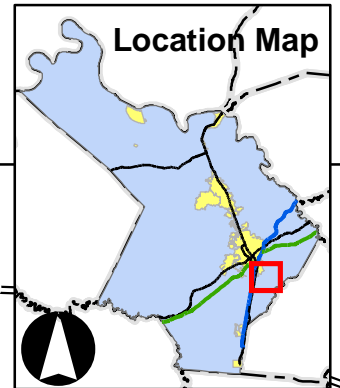
KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-442.00	US 62	Improve Safety, Mobility, and Geometrics on US 62 from I-65 to Upper Colesburg Road (CR-1038)							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
STP	D			\$1,000,000					\$1,000,000
STP	R				\$1,000,000				\$1,000,000
STP	U					\$9,000,000			\$9,000,000
<b>TOTAL</b>									<b>\$11,000,000</b>
<b>*Carryover from Previous TIP</b>									





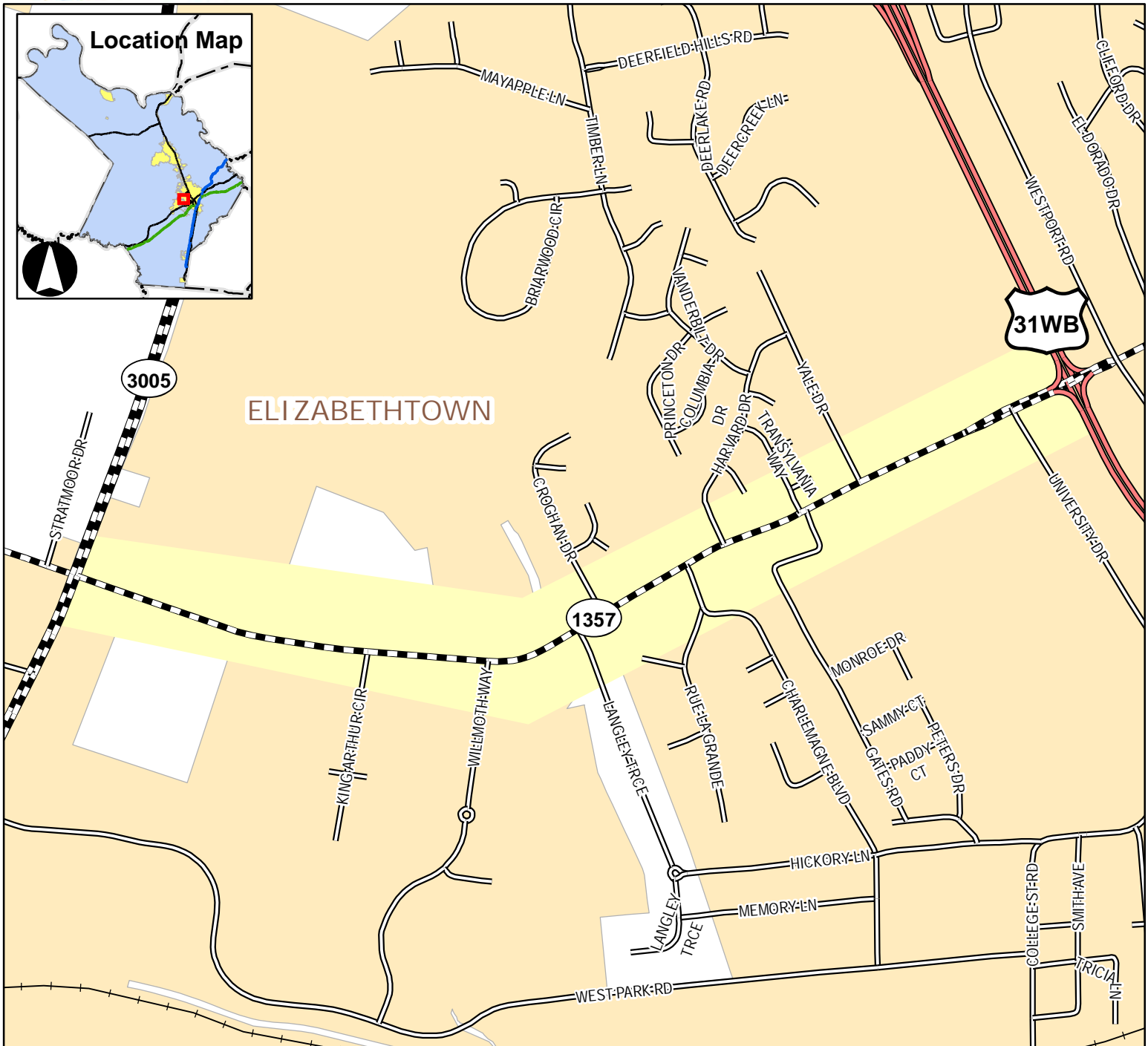
Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-4311.00	KY 210	Install Guardrail on KY 210 in Hardin County							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
STP	C			\$18,000					\$18,000
<b>TOTAL</b>									<b>\$18,000</b>
<b>*Carryover from Previous TIP</b>									



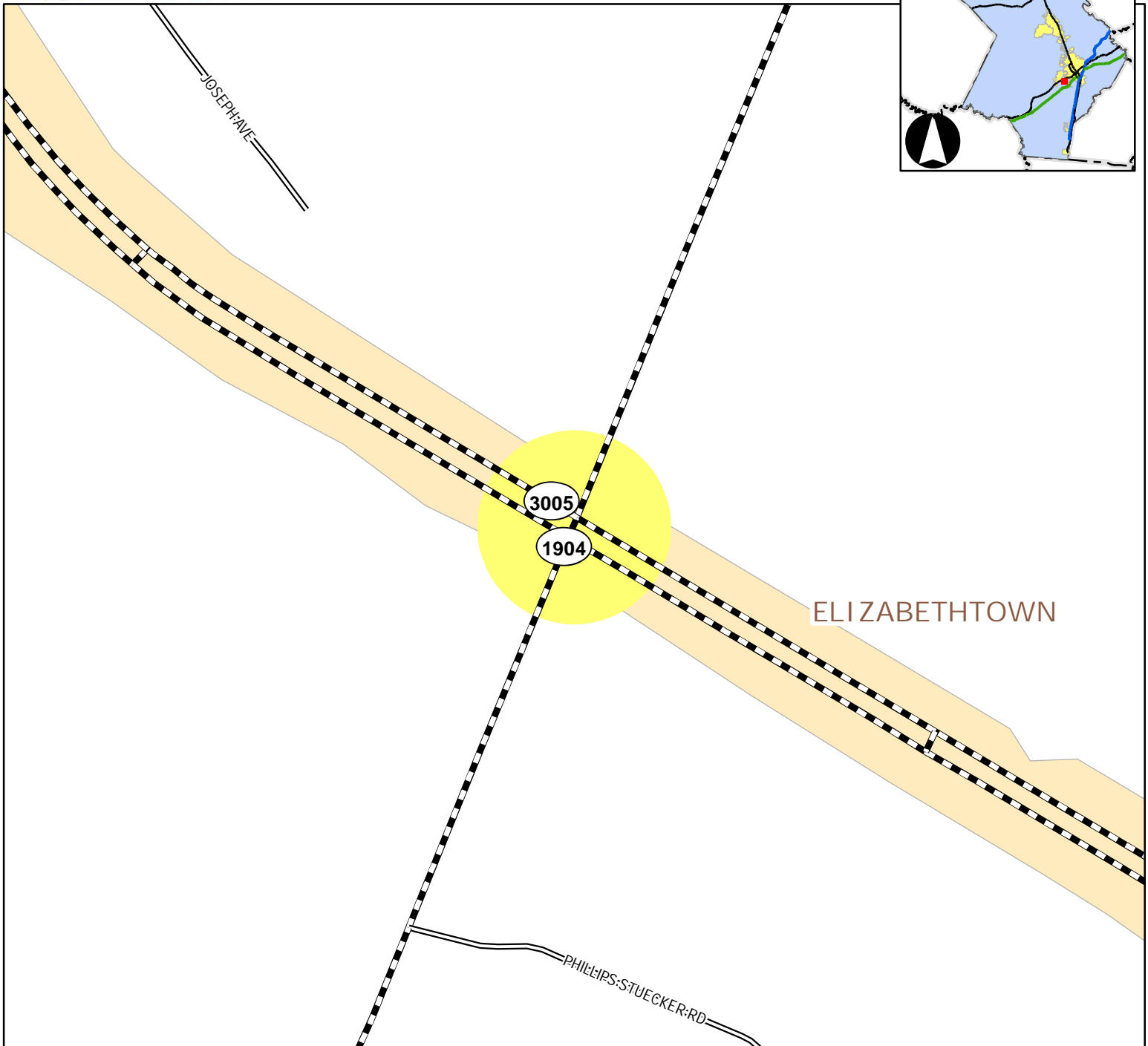
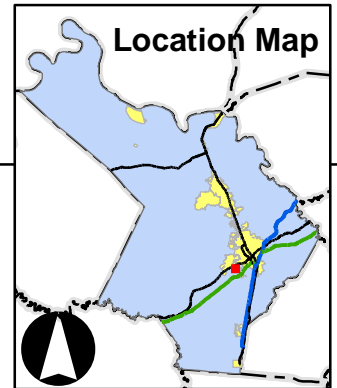
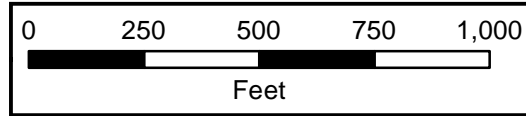
Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-8801.00	KY 1357	Improve Safety, Geometrics, Drainage, and Maintenance Issues along KY 1357 (St. John Road) from US 31W Bypass to KY 3005 (Ring Road)							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
STP	U	\$3,500,000							\$3,500,000
STP	C			\$8,000,000					\$8,000,000
<b>TOTAL</b>									<b>\$11,500,000</b>
<b>*Carryover from Previous TIP</b>									



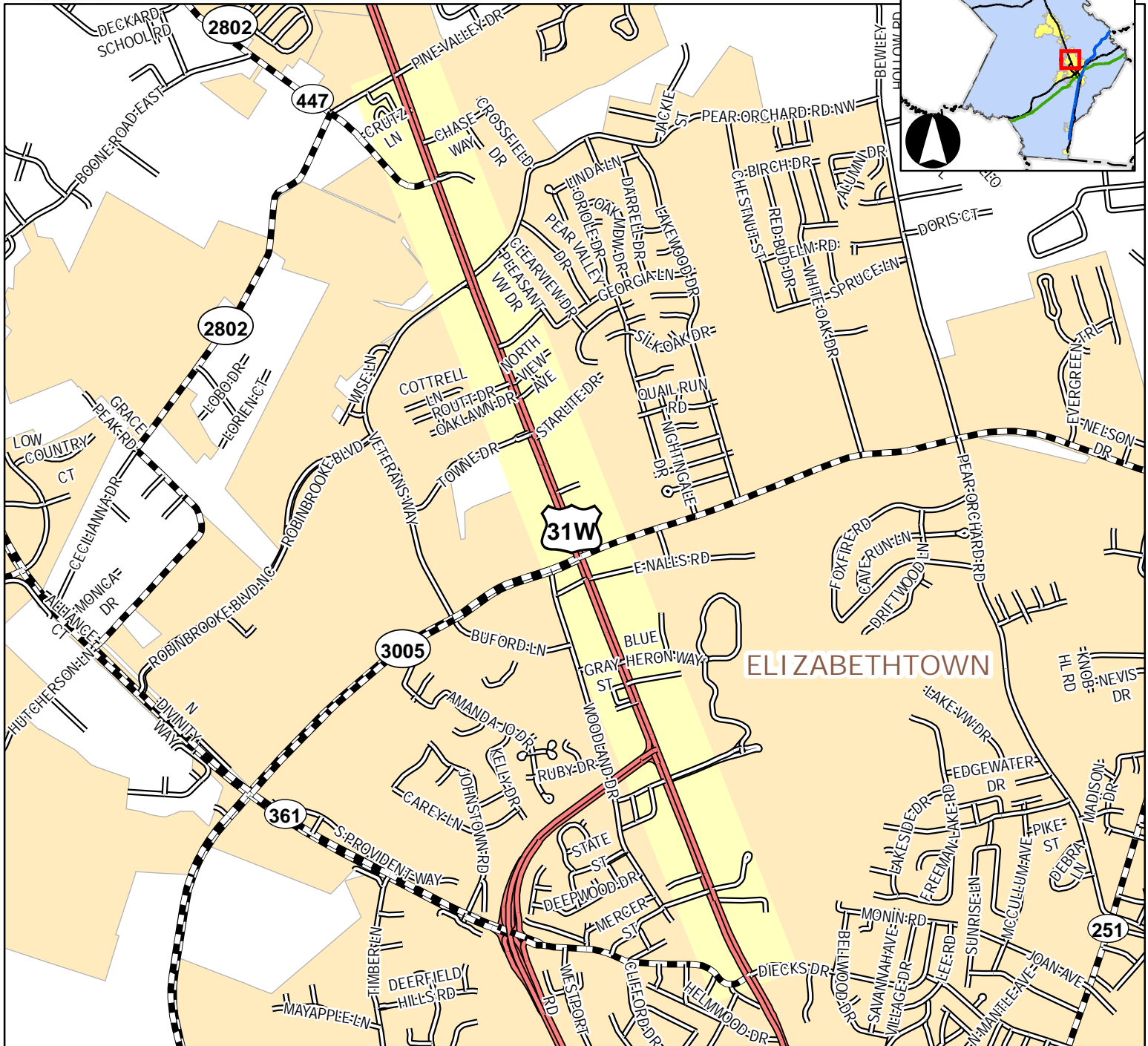
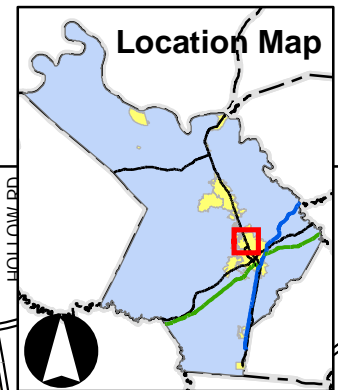
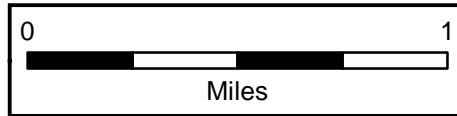
**Federally Funded Transportation Projects**  
**Radcliff/Elizabethtown MPO TIP (FY 2022-2026)**

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-9002.00	KY 1357	Construct an RCUT at the intersection of KY 3005 (Ring Rd.) and KY 1904 (Bacon Creek Rd.)							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
HSIP	D	\$75,000							\$75,000
HSIP	C	\$750,000							\$750,000
<b>TOTAL</b>									<b>\$825,000</b>
<b>*Carryover from Previous TIP</b>									



Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

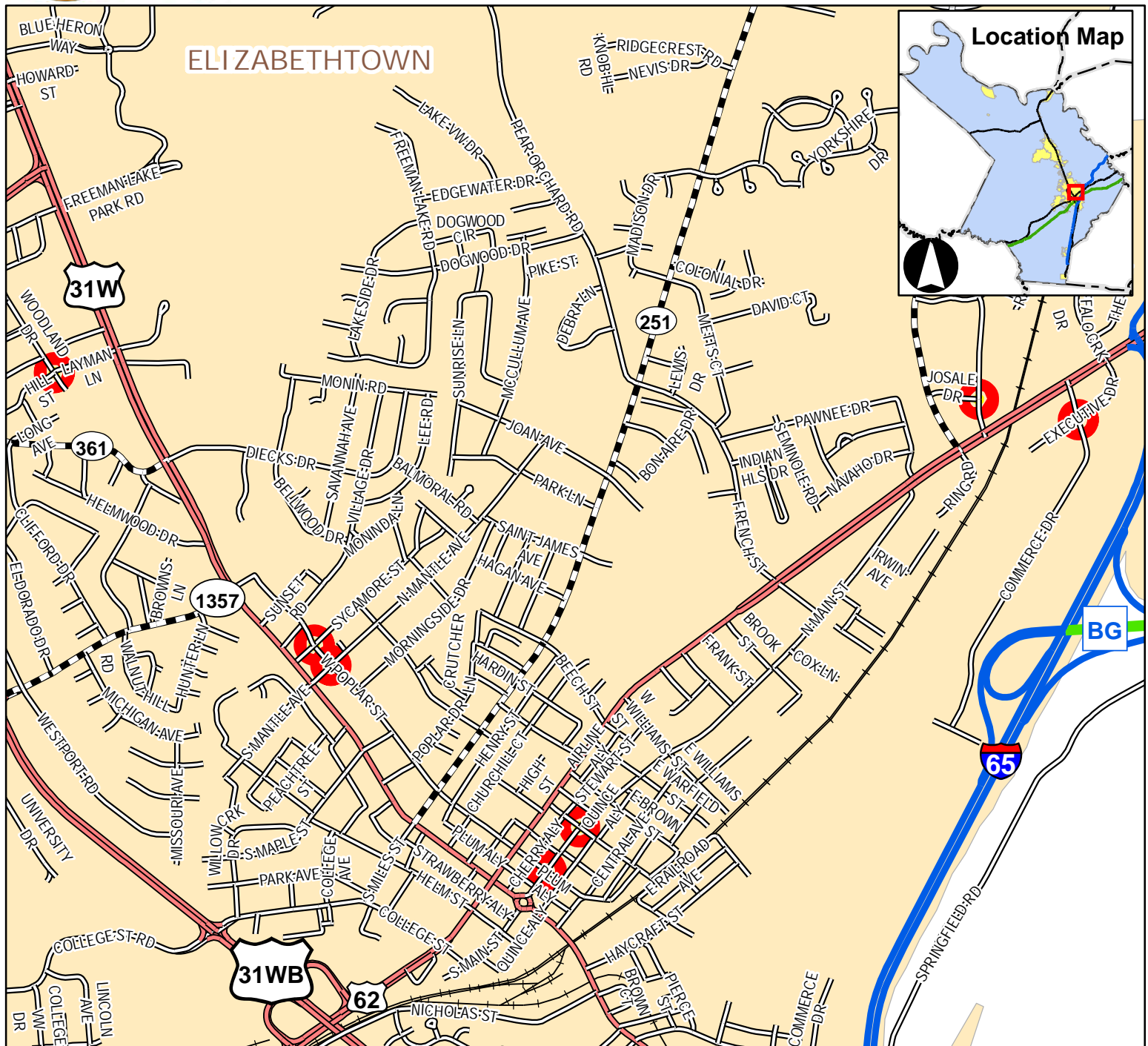
KYTC ID	ROUTE	PROJECT DESCRIPTION						
4-9008.50	US 31W	Intersection Improvements on US 31W from Diecks Drive to Pine Valley Drive to Reduce Conflict Points and Enhance Safety and Traffic Flow						
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE
HSIP	C	\$4,911,000						
<b>TOTAL</b>								<b>\$4,911,000</b>
<b>*Carryover from Previous TIP</b>								





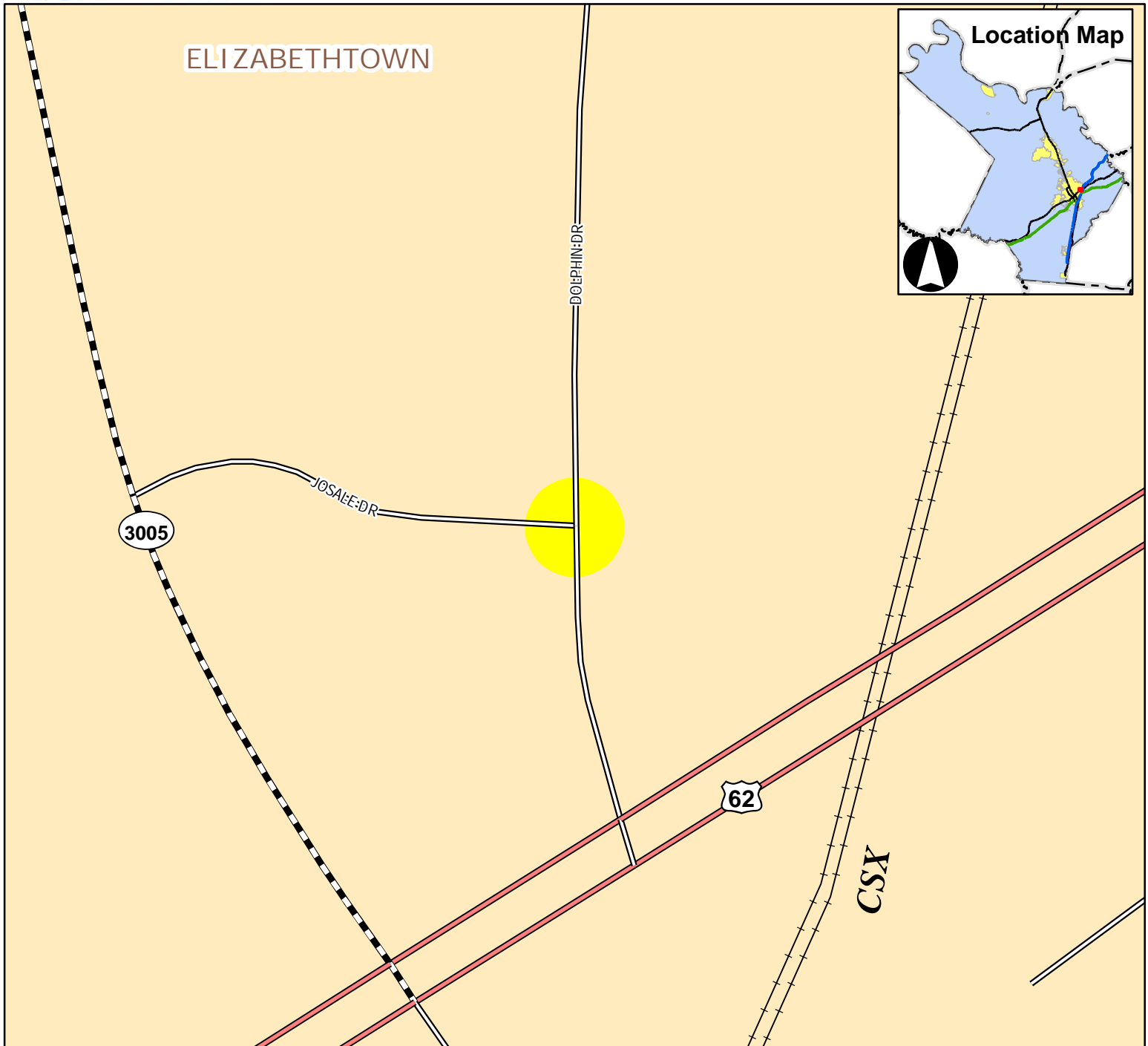
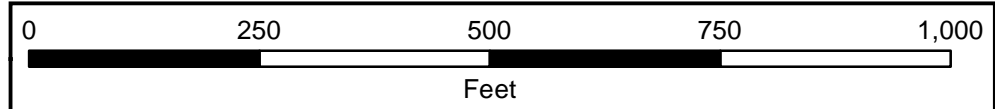
Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-9012.00	Various	Preliminary Design and Study of Mini-Roundabouts at Various Intersections within the City of Elizabethtown (N. Main St. at Crutcher St.; Dolphin Dr. at Josale Dr.; Commerce Dr. at Executive Dr.; N. Main St. at Poplar St.; Woodland Dr. at Layman Ln.; W. Poplar St. at Sycamor St.; and W. Poplar St. at N. Mantle Ave.)							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
HSIP	R	\$300,000							\$300,000
HSIP	U	\$200,000							\$200,000
<b>TOTAL</b>									<b>\$500,000</b>
<b>*Carryover from Previous TIP</b>									

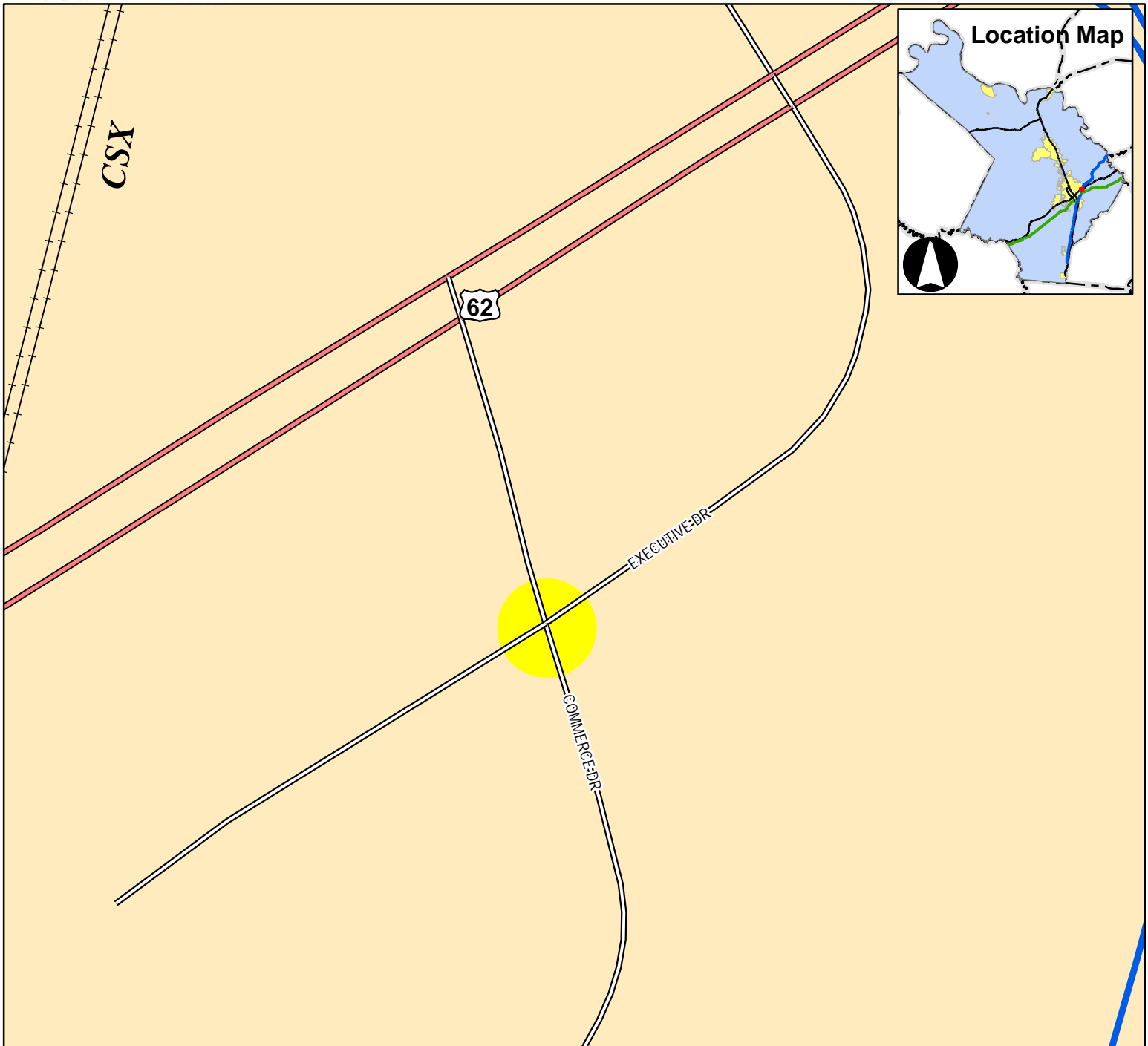
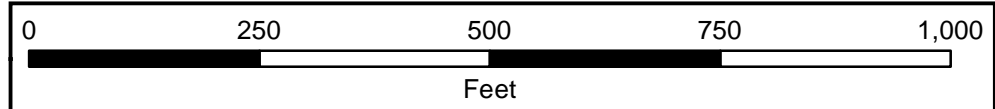


Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-9012.20	CS 1430 (Dolphin Drive)	Construct a Mini-Roundabout at the Intersection of Dolphin Drive and Josale Dr.							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
HSIP	C	\$265,000							\$265,000
<b>TOTAL</b>									<b>\$265,000</b>
<b>*Carryover from Previous TIP</b>									

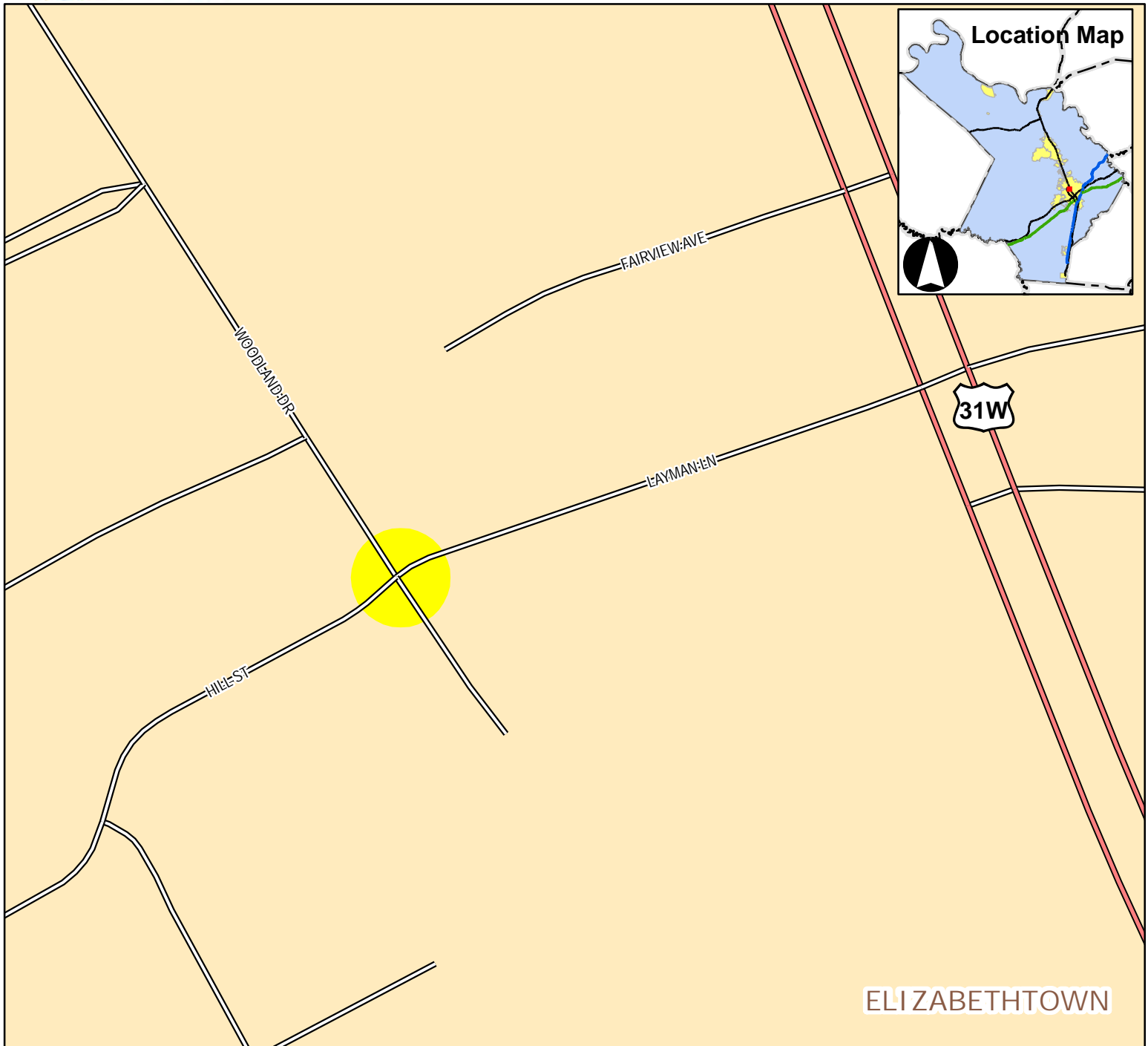
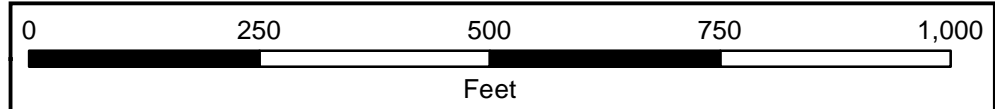


Federally Funded Transportation Projects Radcliff/Elizabethtown MPO TIP (FY 2022-2026)									
KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-9012.30	CS 1108 (Commerce Drive)	Construct a Mini-Roundabout at the Intersection of Commerce Drive and Executive Dr.							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
HSIP	C	\$350,000							\$350,000
<b>TOTAL</b>									<b>\$350,000</b>
<b>*Carryover from Previous TIP</b>									

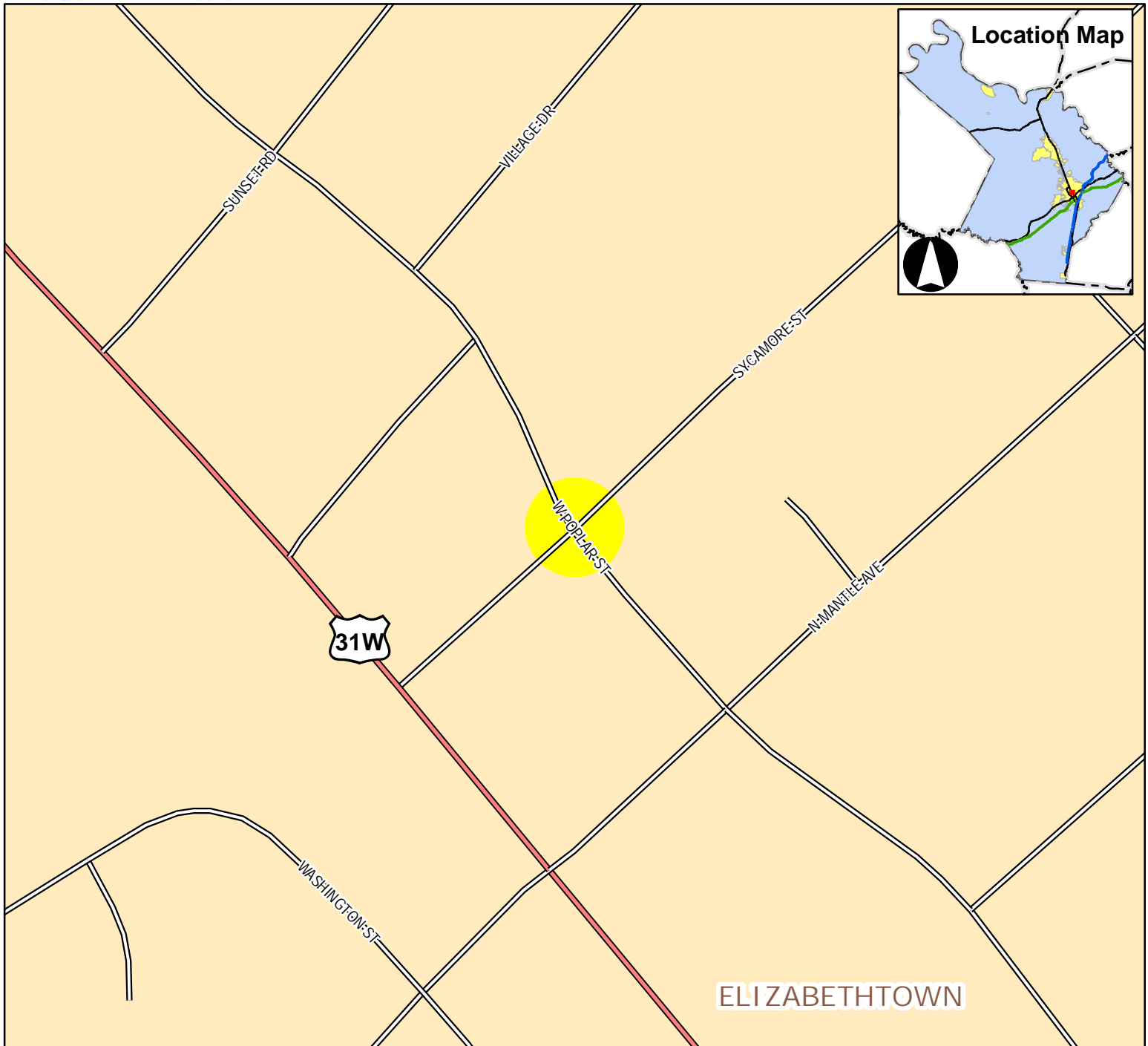
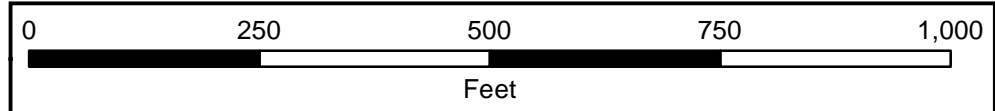


Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-9012.50	CS 1193 (Woodland Drive)	Construct a Mini-Roundabout at the Intersection of Woodland Drive and Layman Ln.							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
HSIP	C	\$240,000							\$240,000
<b>TOTAL</b>									<b>\$240,000</b>
<b>*Carryover from Previous TIP</b>									



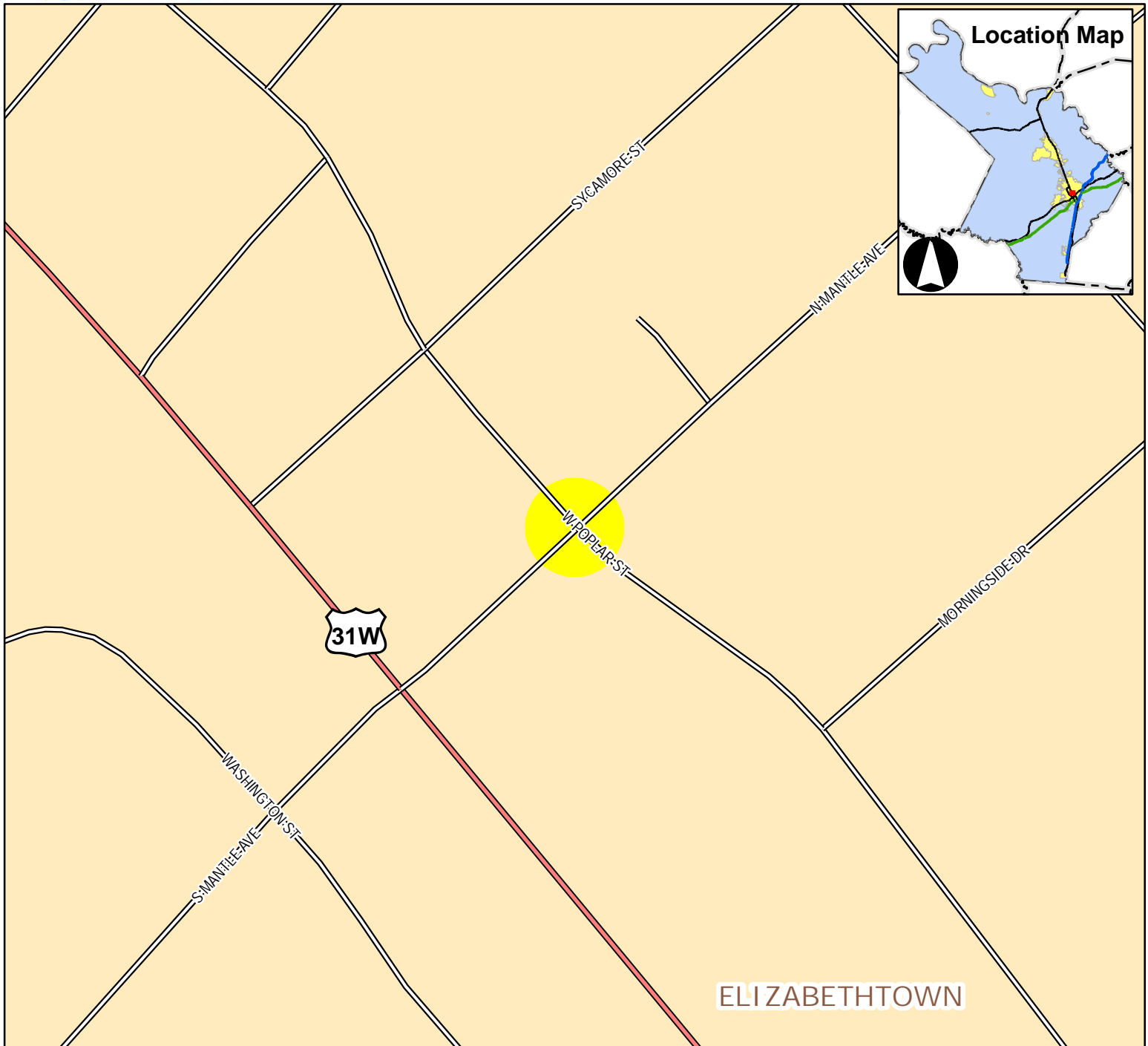
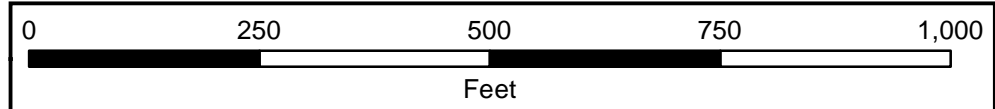
Federally Funded Transportation Projects Radcliff/Elizabethtown MPO TIP (FY 2022-2026)									
KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-9012.60	CS 1068 (W. Poplar Street)	Construct a Mini-Roundabout at the Intersection of W. Poplar St. and Sycamore St.							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
HSIP	C	\$250,000							\$250,000
<b>TOTAL</b>									<b>\$250,000</b>
<b>*Carryover from Previous TIP</b>									





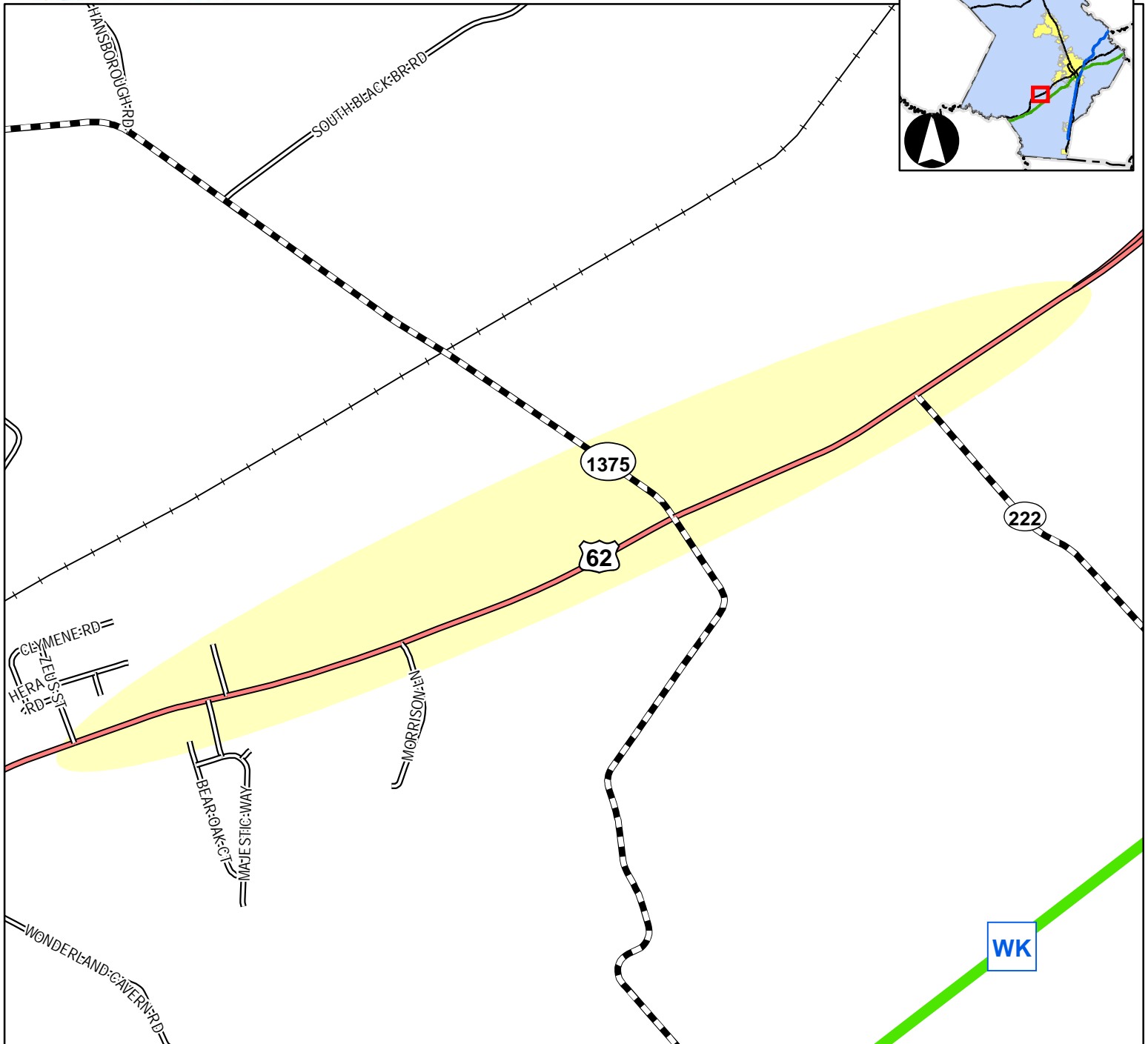
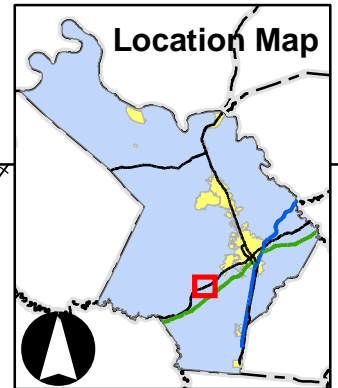
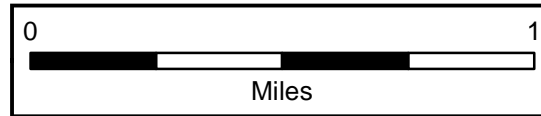
Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-9012.70	CS 1068 (W. Poplar Street)	Construct a Mini-Roundabout at the Intersection of W. Poplar St. and N. Mantle Ave.							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
HSIP	C	\$215,000							\$215,000
<b>TOTAL</b>									<b>\$215,000</b>
<b>*Carryover from Previous TIP</b>									



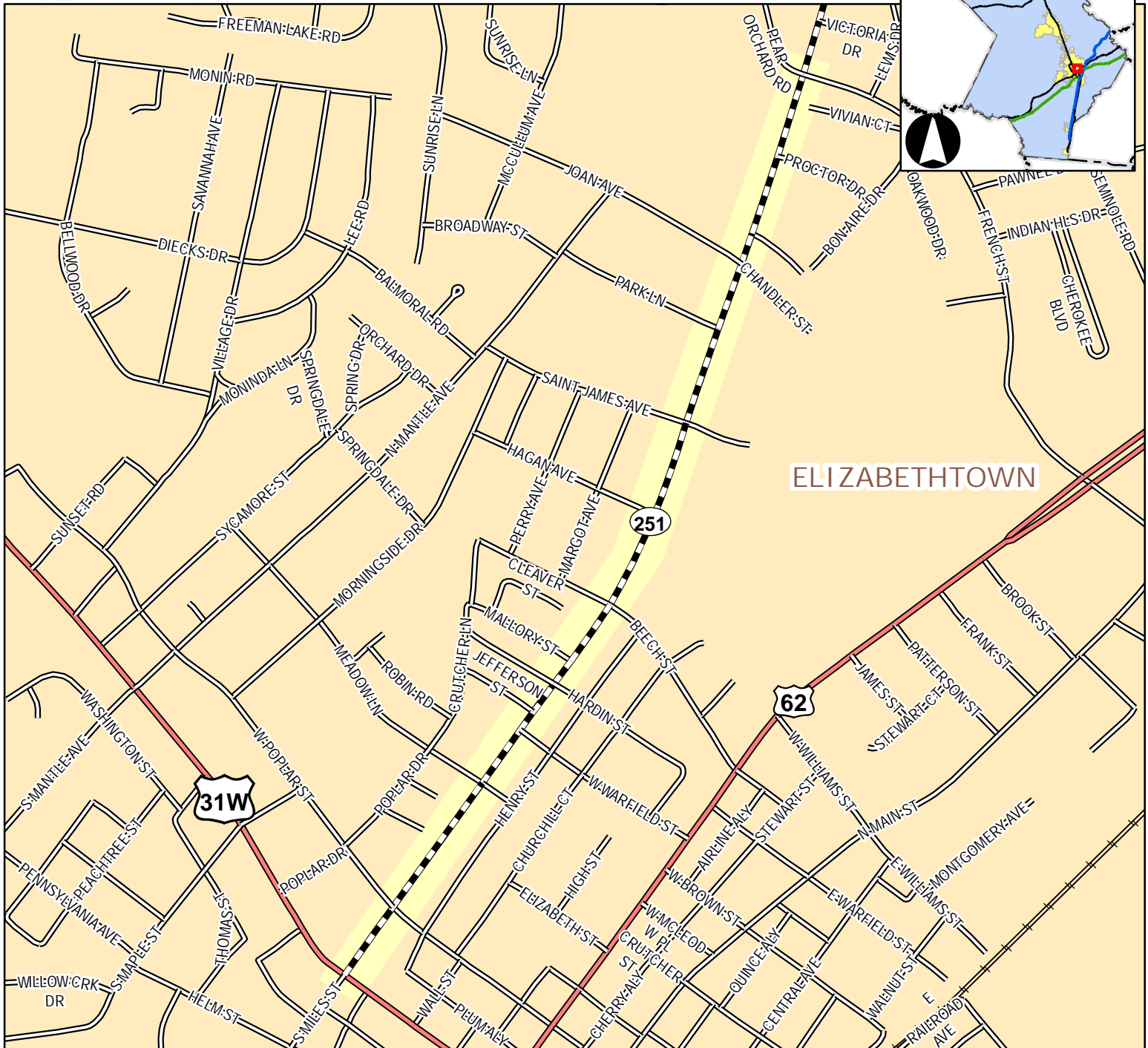
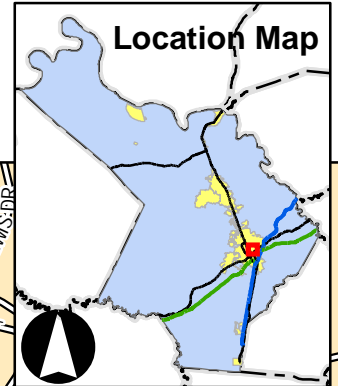
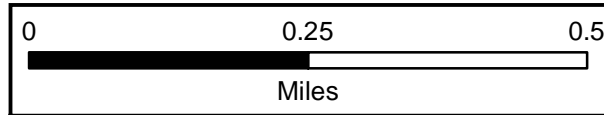
**Federally Funded Transportation Projects**  
**Radcliff/Elizabethtown MPO TIP (FY 2022-2026)**

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-9015.00	US 62	Perform Low-Cost Safety Improvements on US 62 from MP 7.844 to MP 10.900 in Hardin County. (2018BOP)							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
HSIP	D	\$200,000							\$200,000
HSIP	R	\$15,000							\$15,000
HSIP	U	\$100,000							\$100,000
<b>TOTAL</b>									<b>\$315,000</b>
<b>*Carryover from Previous TIP</b>									



Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

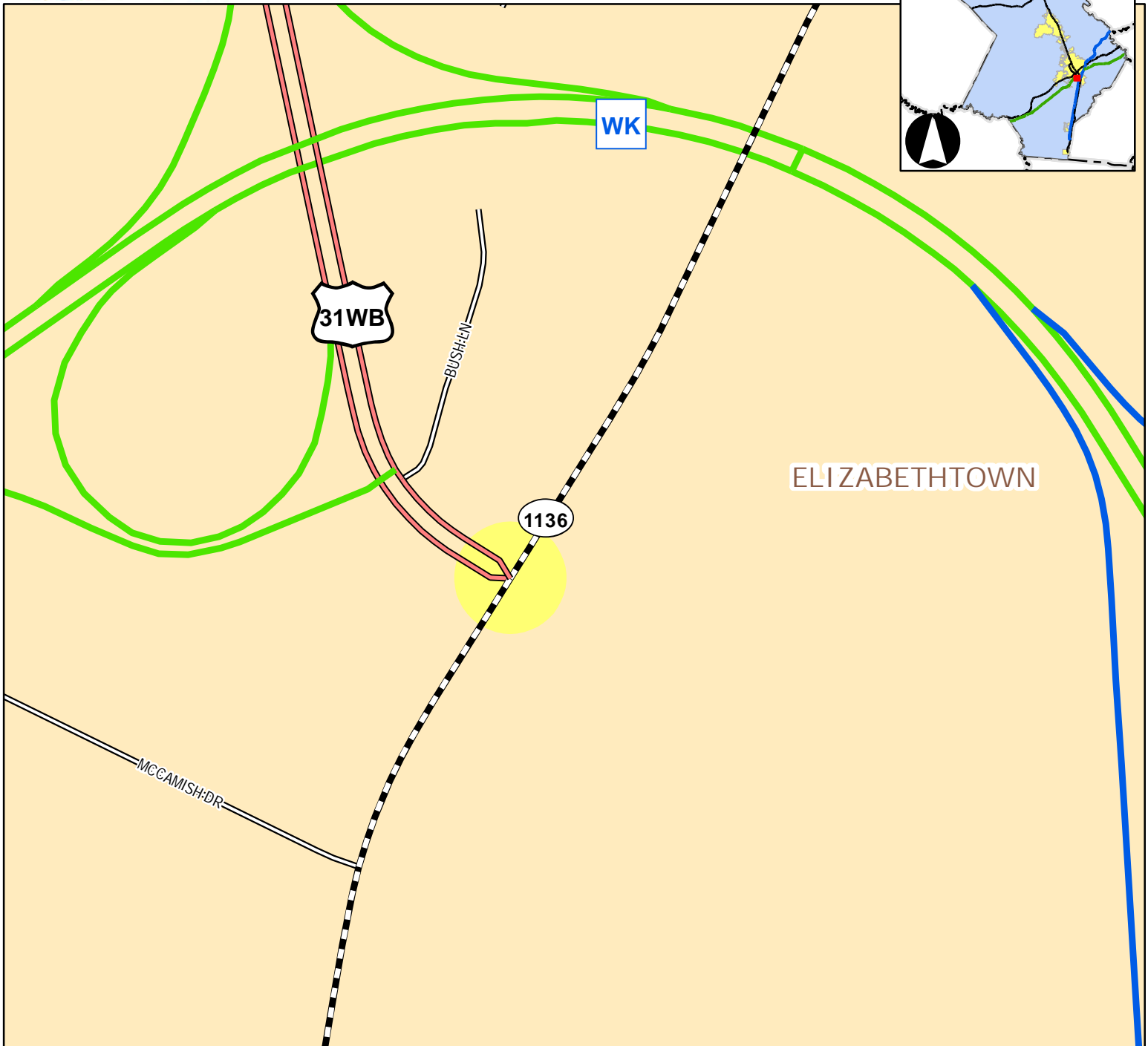
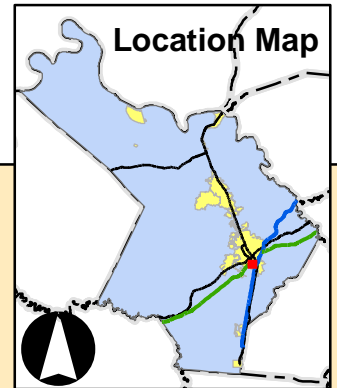
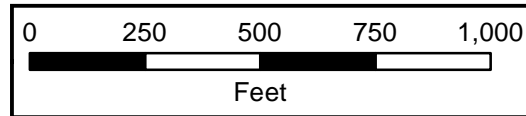
KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-9016.00	KY 251	Overlay and Re-Stripe KY 251 to Convert a 4-lane Section to a 3-lane Section between W. Dixie Avenue and Pear Orchard Road and Construct Mini-Roundabouts along KY 251 at the Intersections with W. Poplar St., Beech St., Panther Ln., and Pear Orchard Rd.							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
HSIP	D	\$200,000							\$200,000
HSIP	R	\$50,000							\$50,000
HSIP	U	\$30,000							\$30,000
HSIP	C	\$800,000							\$800,000
<b>TOTAL</b>									<b>\$1,080,000</b>
<b>*Carryover from Previous TIP</b>									





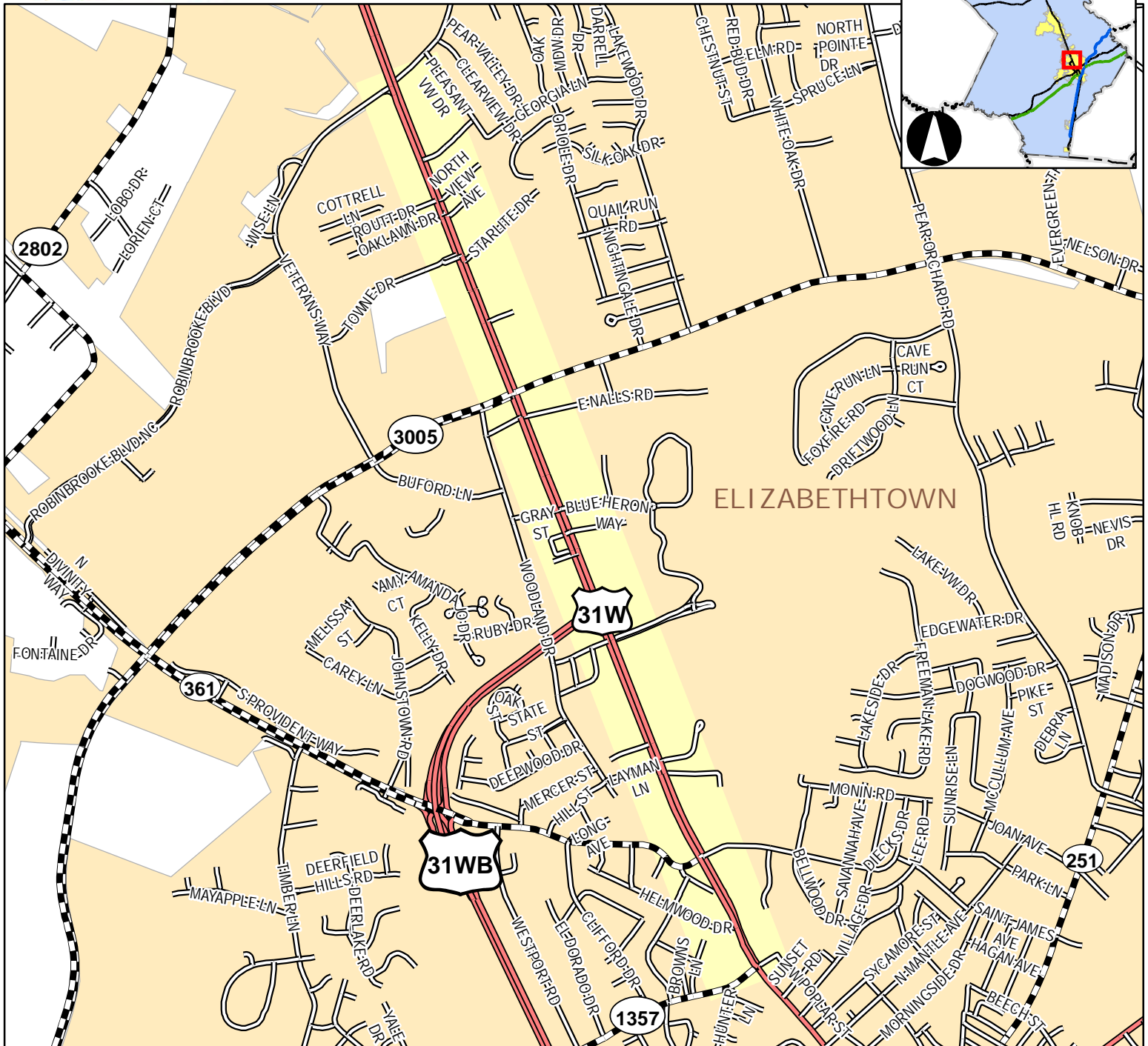
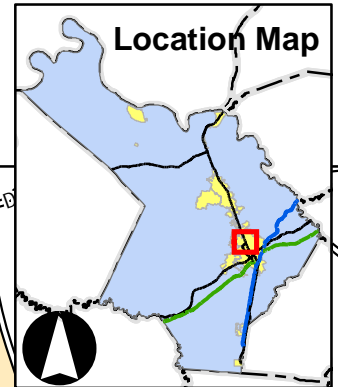
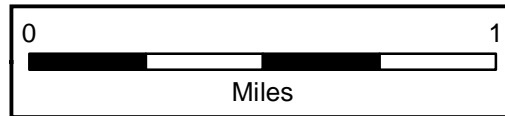
**Federally Funded Transportation Projects**  
**Radcliff/Elizabethtown MPO TIP (FY 2022-2026)**

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-9017.00	KY 1136	Construction of a Roundabout at the Intersection of KY 1136 and US31W Bypass							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
HSIP	D	\$250,000							\$250,000
HSIP	R	\$50,000							\$50,000
HSIP	U	\$100,000							\$100,000
HSIP	C	\$600,000							\$600,000
<b>TOTAL</b>									<b>\$1,000,000</b>
<b>*Carryover from Previous TIP</b>									



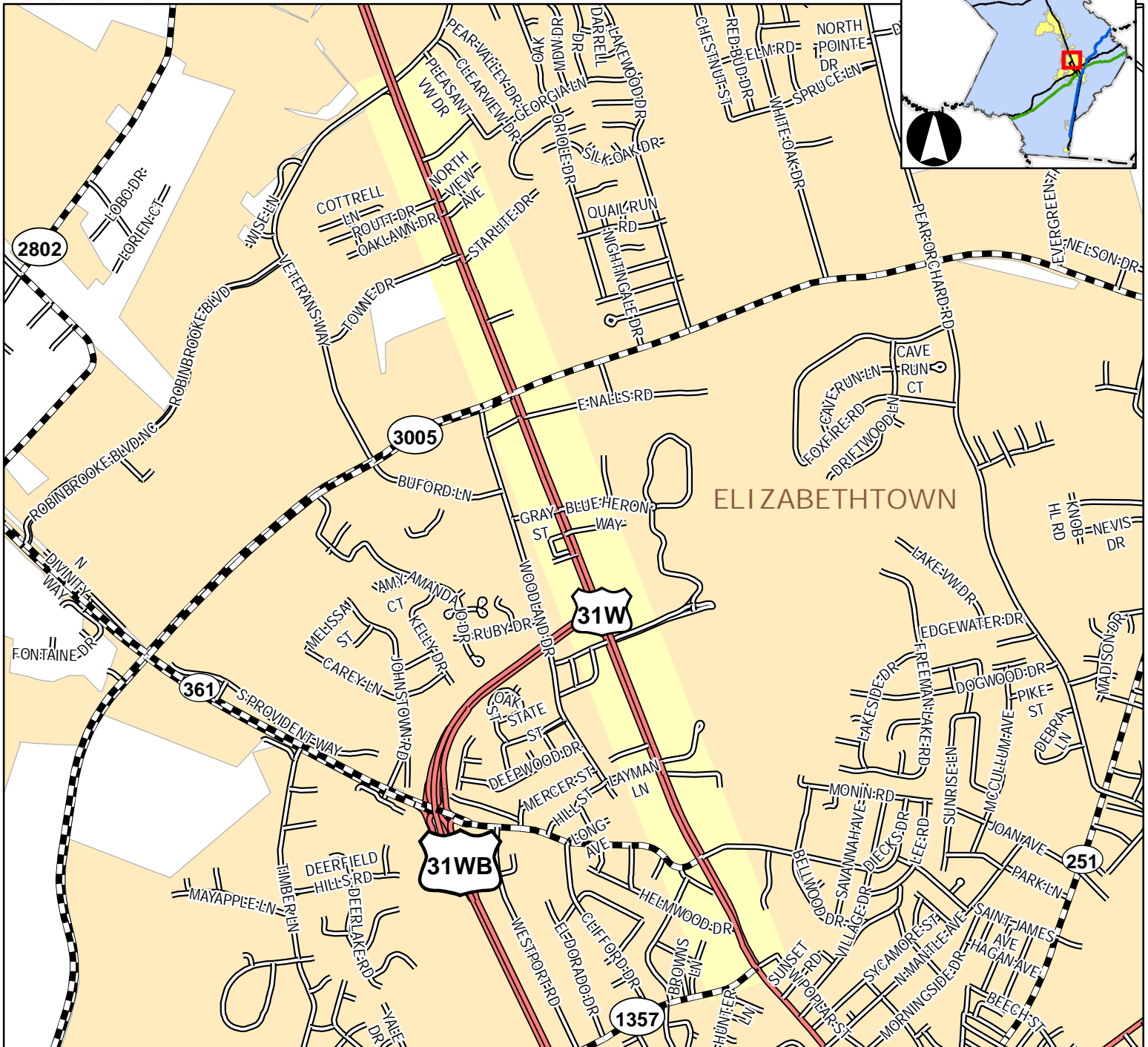
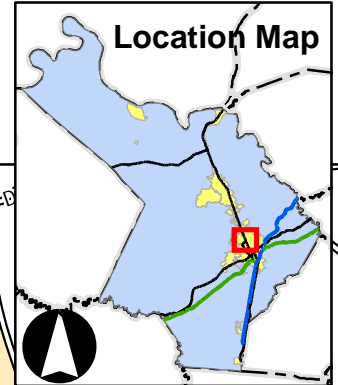
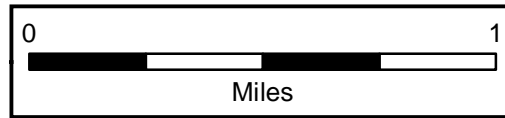
**Federally Funded Transportation Projects**  
**Radcliff/Elizabethtown MPO TIP (FY 2022-2026)**

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-20011.00	US 31W	Address Pavement Condition on US 31W from MP 17.677 to MP 20.432							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
NH	D	\$550,000							\$550,000
NH	C		\$2,000,000						\$2,000,000
<b>TOTAL</b>									<b>\$2,550,000</b>
<b>*Carryover from Previous TIP</b>									



**Federally Funded Transportation Projects**  
**Radcliff/Elizabethtown MPO TIP (FY 2022-2026)**

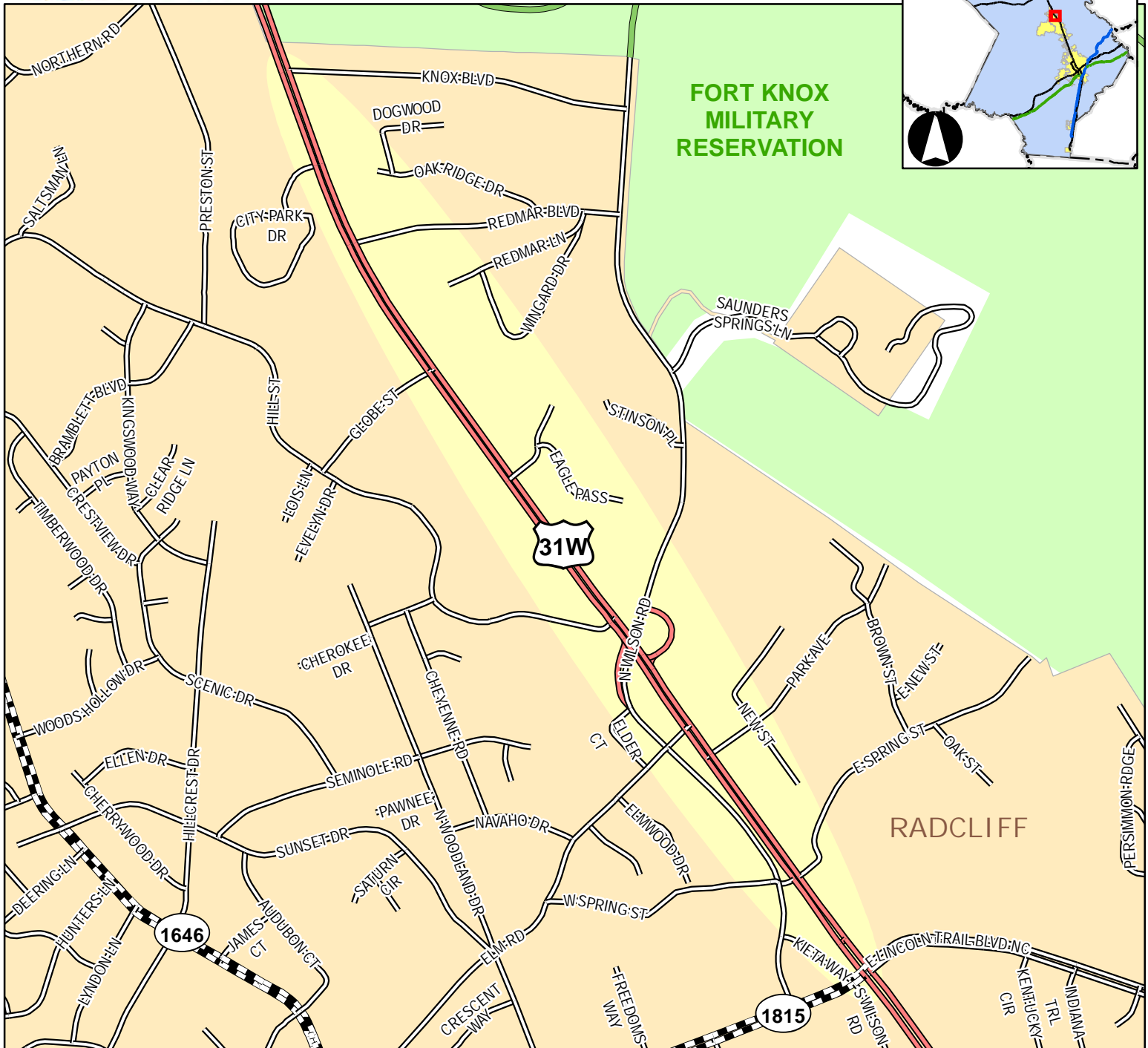
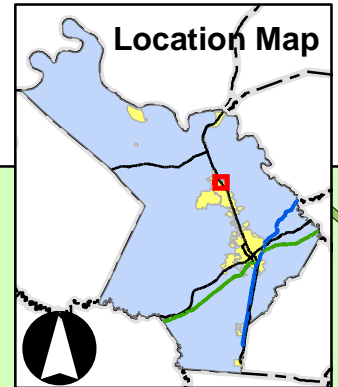
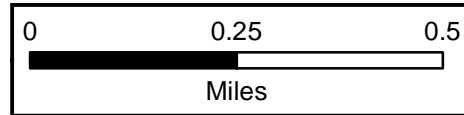
KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-20011.10	US 31W	Address Pavement Condition on US 31W from MP 17.677 to MP 20.432							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
NH	C			\$3,500,000					\$3,500,000
<b>TOTAL</b>									<b>\$3,500,000</b>
<b>*Carryover from Previous TIP</b>									





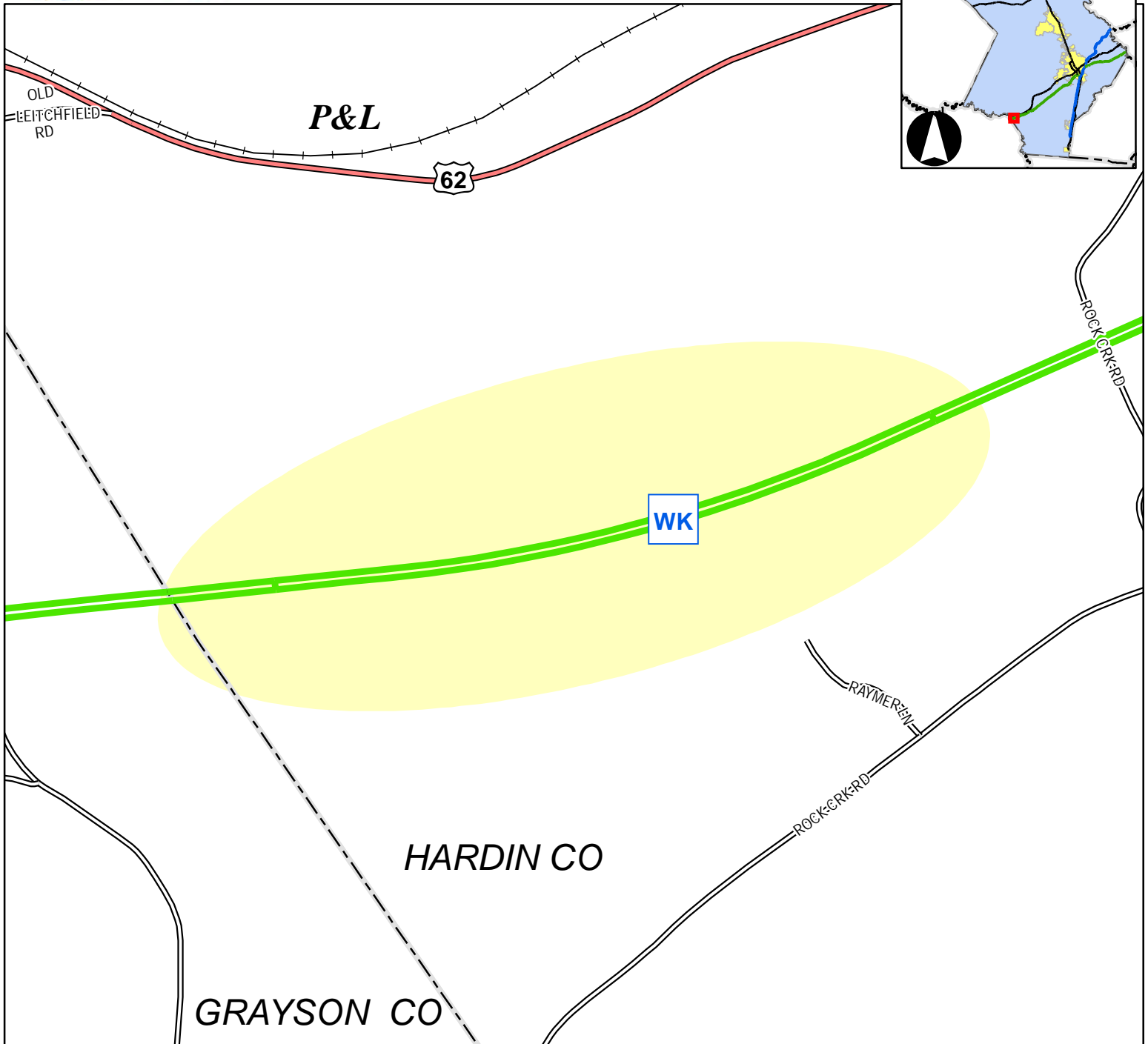
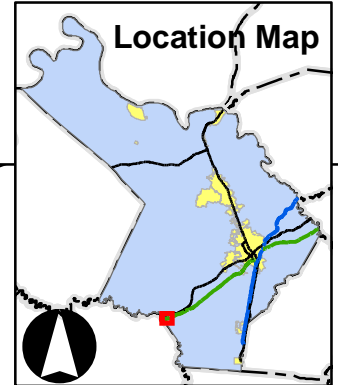
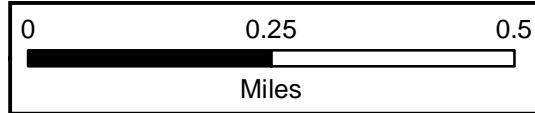
Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

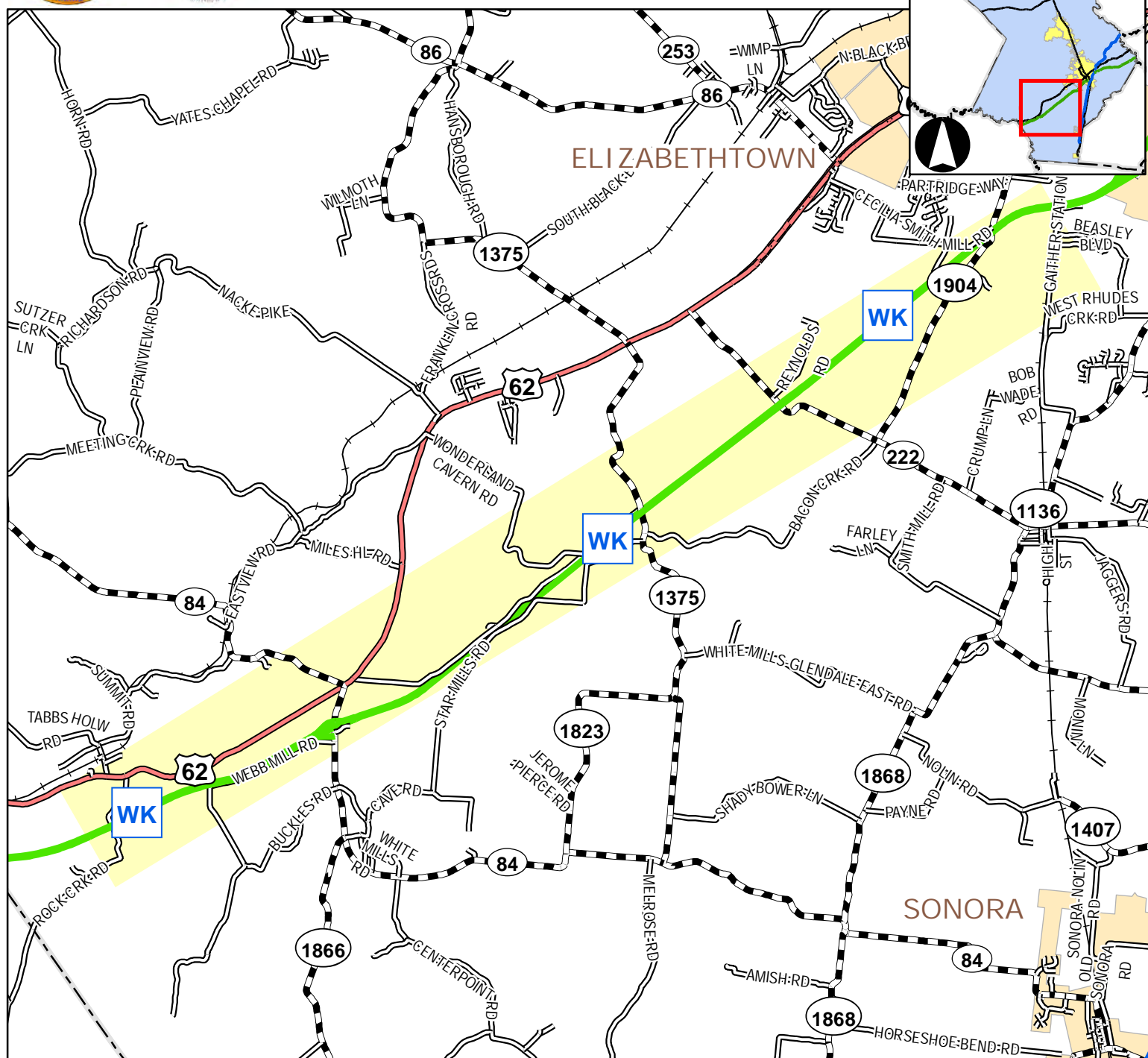
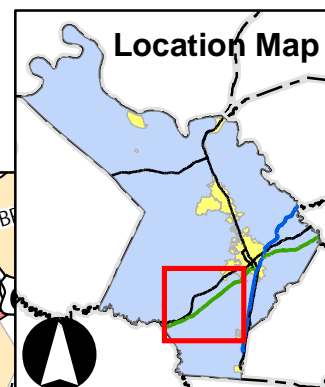
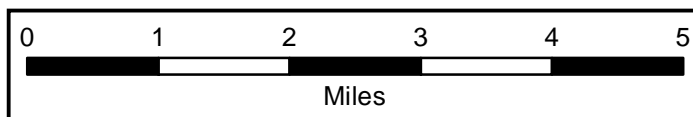
KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-20013.00	US 31W	Address Pavement Condition on US 31W from MP 27.732 to MP 29.5							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
NH	D					\$325,000			\$325,000
NH	C						\$3,250,000		\$3,250,000
<b>TOTAL</b>									<b>\$3,575,000</b>
<b>*Carryover from Previous TIP</b>									



Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

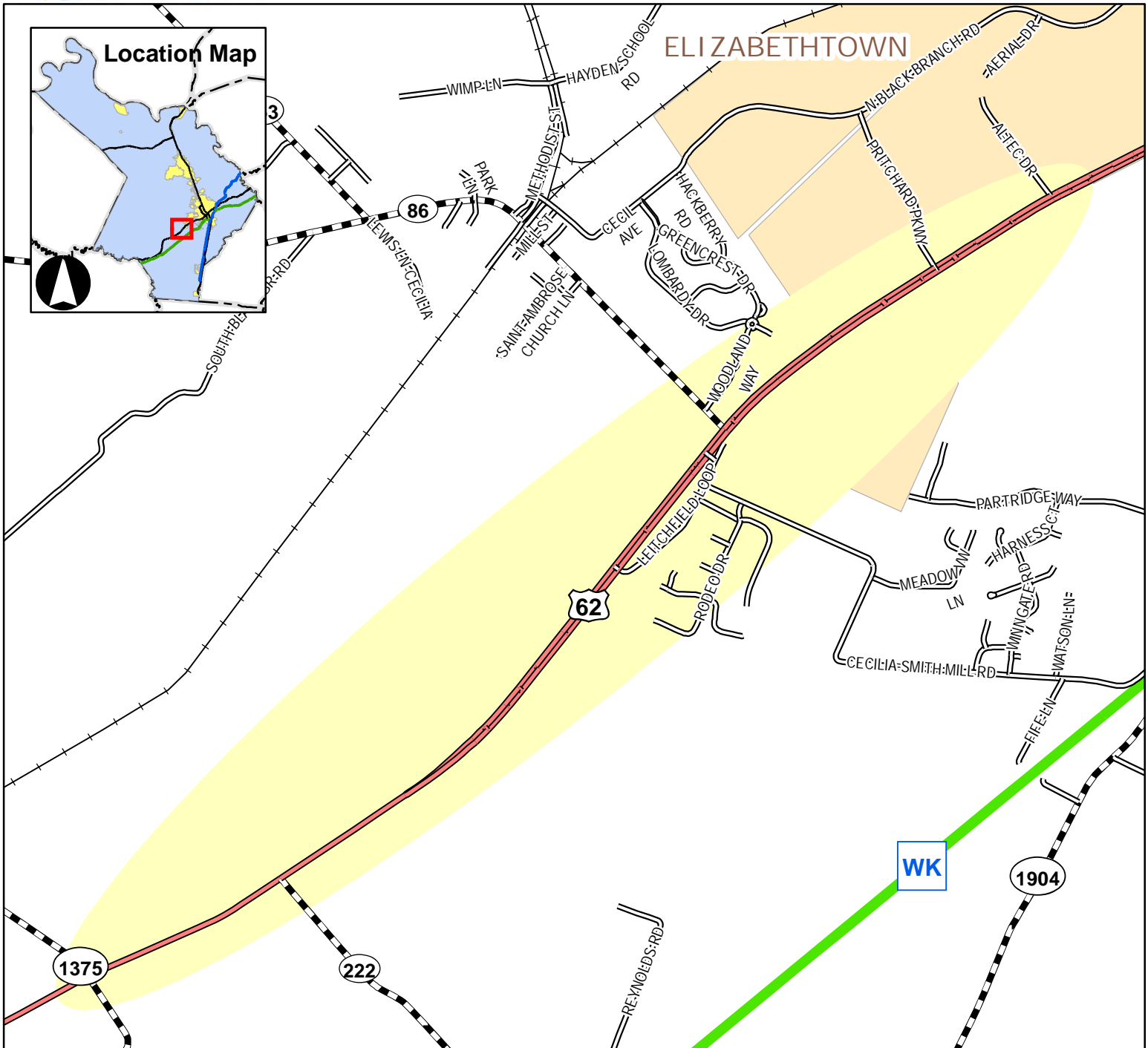
KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-20015.00	WK 9001	Address Pavement Condition on Wendell H. Ford Western KY Parkway both directions from MP 119.649 to MP 120.649							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
NH	D			\$100,000					\$100,000
NH	C			\$1,000,000					\$1,000,000
<b>TOTAL</b>									<b>\$1,100,000</b>
<b>*Carryover from Previous TIP</b>									





Federally Funded Transportation Projects  
Radcliff/Elizabethtown MPO TIP (FY 2022-2026)

KYTC ID	ROUTE	PROJECT DESCRIPTION							
4-20028.00	US 62	Address Pavement Condition on US 62 both directions from MP 9.57 to MP 13.77.							
FUND TYPE	PHASE	2020-2021*	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FUTURE	TOTAL FUNDING
STP	C				\$689,000				\$689,000
<b>TOTAL</b>									<b>\$689,000</b>
<b>*Carryover from Previous TIP</b>									



## Table 7 State-Funded Regionally Significant Highway Projects



Table 7 Radcliff/Elizabethtown MPO Transportation Improvement Program FY 2022-2026 State Funded Regionally Significant Projects									
ROUTE	KYTC ID	COUNTY	DESCRIPTION	TYPE OF FUNDS	PHASE	YEAR	COST	TOTAL PROJECT COST	RESPONSIBLE AGENCY
KY 3005	4-198	Hardin	Extend Ring Road from Western Kentucky Parkway to I-65	SPP	U	2023	\$1,560,000	\$22,940,000	KYTC - Dist. 4
					C	2024	\$21,380,000		

## Table 8

### Transit Projects

TABLE 8 - TRANSIT PROJECTS							
Project Description	Fund Type	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Responsible Agency
Operating Capital Planning Capital	5307	\$1,917,906	\$1,550,000	\$1,550,000	\$1,550,000	\$1,550,000	TACK
	5307	\$362,303	\$0	\$0	\$0	\$0	TACK
	5307		\$0	\$0	\$0	\$0	TACK
	5339	\$137,689	\$3,125,000	\$140,000	\$140,000	\$140,000	TACK
ADA Complimentary Paratransit Expenses	5307	\$4,206,295	\$3,500,000	\$3,500,000	\$3,500,000	\$3,500,000	TACK
Bus Shelters, Stops, and Signage	5307/5339		\$0	\$0	\$0	\$0	TACK
Maintenance Facility	5307/5339	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	TACK
Preventative Maintenance	5307	\$93,000	\$93,000	\$93,000	\$93,000	\$93,000	TACK
Technology/Equipment t - safety, security, communication, and computer software maintenance and technical support	5307/5339	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	TACK
Vehicle purchase and renovation	5307/5339	\$65,000	\$20,000	\$20,000	\$2,500,000	\$20,000	TACK
TOTAL 5307		▲\$2,280,209	▲\$1,550,000	▲\$1,550,000	▲\$1,550,000	▲\$1,550,000	
TOTAL 5339		\$137,689	\$3,125,000	\$140,000	\$140,000	\$140,000	
GRAND TOTAL		\$2,417,898	\$4,675,000	\$1,690,000	\$1,690,000	\$1,690,000	
CAPITAL TOTAL		\$499,992	\$3,125,000	\$140,000	\$140,000	\$140,000	

## Table 9 Bicycle/Pedestrian Projects

Table 9 Radcliff/Elizabethtown MPO Transportation Improvement Program FY 2022-2026 Pedestrian/Bicycle Projects									
ROUTE	PROJECT ID	COUNTY	DESCRIPTION	TYPE OF FUNDS	YEAR	PHASE	COST	TOTAL PROJECT COST	RESPONSIBLE AGENCY
-	4-3203	Meade	Removal of existing, unsafe walkway on the west side of Main Street in conjunction with the new sidewalk project previously approved on the East side of Main Street. 860' of unsafe sidewalk and 200' of deteriorating retaining wall	Transportation Alternatives Program (TAP)	2022	C	\$160,000	\$199,936	City of Brandenburg
US 31W	4-3207	Hardin	Radcliff Happy Valley Walking Trail Tunnel. Construct a walking trail tunnel that connects 8,170' of walking trail on the west side of US 31W to 6,091' of walking trail on the east side of US 31W. (MP 25.393 to MP 25.394)	Transportation Alternatives Program (TAP)	2022	C	\$442,358	\$442,358	City of Radcliff

## Table 10 Funding Summary

### Table 10 - Summary of Highway Funding Types

Fiscal Year		FUNDING TYPE					TOTAL
		IM	NH	HSIP	STP	TAP	
2020-2021*	Est. Cost		\$550,000	\$9,126,000	\$6,250,000	\$642,294	\$16,568,294
	Revenue		\$550,000	\$9,126,000	\$6,250,000	\$642,294	\$16,568,294
2022	Est. Cost	\$15,690,000	\$17,552,000	\$485,000	\$4,384,000		\$38,111,000
	Revenue	\$15,690,000	\$17,552,000	\$485,000	\$4,384,000		\$38,111,000
2023	Est. Cost		\$28,152,000		\$16,208,000		\$44,360,000
	Revenue		\$28,152,000		\$16,208,000		\$44,360,000
2024	Est. Cost		\$413,400		\$2,137,800		\$2,551,200
	Revenue		\$413,400		\$2,137,800		\$2,551,200
2025	Est. Cost		\$195,000		\$18,065,000		\$18,260,000
	Revenue		\$195,000		\$18,065,000		\$18,260,000
2026	Est. Cost		\$1,950,000		\$65,000		\$2,015,000
	Revenue		\$1,950,000		\$65,000		\$2,015,000
* Carryover from Previous TIP							



# Appendix A

## Metropolitan Transportation Plan Reference Table

The content in this section includes the Metropolitan Transportation Plan (MTP) reference information for all federally funded transportation projects in the FY2019-24 TIP. This information is included to demonstrate the required consistency with the MTP for each project in the TIP. The 2045 MTP can be viewed on the MPO website at [https://radcliff-elizabethtown-mpo.org/wp-content/uploads/2020/03/FINAL-Radcliff\\_Etown-MPO-2045-MTP.pdf](https://radcliff-elizabethtown-mpo.org/wp-content/uploads/2020/03/FINAL-Radcliff_Etown-MPO-2045-MTP.pdf)

**APPENDIX A  
FEDERALLY FUNDED TRANSPORTATION PROJECTS MTP REFERENCE**

<b>KYTC ID</b>	<b>ROUTE</b>	<b>PROJECT DESCRIPTION</b>	<b>MTP REFERENCE</b>	<b>MTP REFERENCE NOTES</b>
4-20.01	I-65	Improve the safety and increase the capacity of the I-65/KY 222 interchange based on existing and future needs of the area	Table 2	IP20150149
4-153.01	KY 251	KY 251 Improvements from KY 3005 to KY 434	Table 1	Item # 153.01
5-154.20	US 31W	Operational improvements on US 31W from US 31W Bypass to KY 447 to improve safety and traffic flow	Table 1	Item # 154
4-442.00	US 62	Improve safety, mobility, and geometrics on US 62 from I-65 to Upper Colesburg Road (CR-1038)	Table 2	Item # 442
4-20011.00	US 31W	Address Pavement Condition	Table 3	Grouped Projects - Pavement Resurfacing, Restoration, & Rehabilitation
4-20011.10	US 31W	Address Pavement Condition	Table 3	Grouped Projects - Pavement Resurfacing, Restoration, & Rehabilitation
4-20014	US 31W	Address Pavement Condition - PCC Pavement	Table 3	Grouped Projects - Pavement Resurfacing, Restoration, & Rehabilitation
4-20013	US 31W	Address Pavement Condition	Table 3	Grouped Projects - Pavement Resurfacing, Restoration, & Rehabilitation
4-20015.00	WK 9001	Address Pavement Condition of Wendell H. Ford Western KY Parkway both direction(s) from milepoint 119.649 to milepoint 120.649	Table 3	Grouped Projects - Pavement Resurfacing, Restoration, & Rehabilitation
4-20016.00	WK 9001	Address Pavement Condition of Wendell H. Ford Western KY Parkway both direction(s) from milepoint 120.93 (120.65 Non-Cardinal) to milepoint 132.4 (130.95 Non-Cardinal)	Table 3	Grouped Projects - Pavement Resurfacing, Restoration, & Rehabilitation
4-20028.00	US 62	Address Pavement Condition on US-62 from milepoint 9.57 to milepoint 13.77	Table 3	Grouped Projects - Pavement Resurfacing, Restoration, & Rehabilitation
4-8801.00	KY 1357	Improve Safety, Geometrics, Drainage, and Maintenance Issues along KY 1357 (St. Jonn Rd) from US 31W Bypass to KY 3005 (Ring Road)	Table 1	Item # 8801
4-9012.00	Various	Preliminary Design and Study of Mini-Roundabouts at Various Intersections within the City of Elizabethtown (N. Main St. at Crutcher St.; Dolphin Dr. at Josale Dr.; Commerce Dr. at Executive Dr.; N. Main St. at Poplar St.; Woodland Dr. at Layman Ln.; W. Poplar St. at Sycamore St.; and W. Poplar St. at N. Mantle Ave.)	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-9012.10	CS 1320 (N. Main St.)	Construct a Mini Roundabout at the Intersection of North Main St & Crutcher St.	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation

**APPENDIX A  
FEDERALLY FUNDED TRANSPORTATION PROJECTS MTP REFERENCE**

<b>KYTC ID</b>	<b>ROUTE</b>	<b>PROJECT DESCRIPTION</b>	<b>MTP REFERENCE</b>	<b>MTP REFERENCE NOTES</b>
4-9012.20	CS 1430 (Dolphin Dr.)	Construct a Mini Roundabout at the Intersection of Dolphin Dr. & Josale Dr.	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-9012.30	CS 1108 (Commerce Dr.)	Construct a Mini Roundabout at the Intersection of Commerce Dr. & Executive Dr.	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-9012.40	CS 1320 (N. Main St.)	Construct a Mini Roundabout at the Intersection of North Main St & Poplar St.	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-9012.50	CS 1193 (Woodland Dr.)	Construct a Mini Roundabout at the Intersection of Woodland Dr. & Layman Ln.	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-9012.60	CS 1068 (W. Poplar St)	Construct a Mini Roundabout at the Intersection of Poplar St. & Sycamore St.	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-9012.70	CS 1068 (W. Poplar St)	Construct a Mini Roundabout at the Intersection of W. Poplar St. & N. Mantle Ave.	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-9008.50	US 31W	Intersection Improvements on US 31W from Diecks Drive to Pine Valley Drive to Reduce Conflict Points and Enhance Safety and Traffic Flow.	Table 3	Grouped Projects - Intersection Improvements for Safety or Efficiency
4-9016.00	KY 251	Overlay and restripe KY 251 to convert from a 4-lane section to a 3-lane section between W Dixie Avenue and Pear Orchard Road and construct mini roundabouts along KY 251 at the intersections with W. Poplar St., Beech St., Panther Lane, and Pear Orchard Road	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-9017.00	KY 1136	Construction of a roundabout at the intersection of KY 1136 and US 31W Bypass	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-9002.00	KY 3005	Construct an RCUT at the intersection of KY 3005 (Ring Road) and KY 1904 (Bacon Creek Road)	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-9015.00	US 62	Perform Low Cost Safety Improvements on US 62 from MP 7.844 TO MP 10.900 in Hardin County. (2018BOP)	Table 3	Grouped Projects - Highway Safety Improvement Program Implementation
4-4311.00	KY 210	Install Guardrail on KY 210 in Hardin County	Table 3	Grouped Projects - Guardrail, Median Barrier, and Crash Cushion Projects

# Appendix B

## Performance Measures

## **Performance Measures**

The concept of incorporating performance management into transportation planning and programming processes is emphasized in the Fixing America's Surface Transportation (FAST) Act of 2015. National performance goals have been established in seven key areas. States are required to develop performance targets that support those national goals. Those seven goal areas are:

- Safety
- Infrastructure Conditions
- Congestion Reduction
- System Reliability
- Freight Movement & Economic Vitality
- Environmental Sustainability
- Reduced Project Delivery Delays

The Kentucky Transportation Cabinet (KYTC), MPOs, and transit agencies have worked together to establish baseline conditions and develop regional or statewide targets for each of the performance measures below. Monitoring these performance measures assists the DOTs in setting goals, adjusting priorities, allocating resources, and developing policy. A list of the performance measure that support the national goals is shown below. KYTC will continue working with its partners to establish and refine statewide performance targets that support the national performance areas.

### Highway Safety

- Number of Fatalities
- Rate of Fatalities
- Number of Serious Injuries
- Rate of Serious Injuries
- Number of Non-Motorized Fatalities and Serious Injuries

### Asset Management

- Bridge Performance
- Pavement Performance

### System Performance

- Travel Time Reliability Index
- Freight Travel Time Reliability

### Transit Asset Management (TAM)

- Rolling Stock
- Equipment
- Facilities

### Transit Safety

- Number of Fatalities
- Total Number of Injuries
- Total Number of Safety Events

## Highway Safety

The Kentucky Transportation Cabinet (KYTC) developed performance targets for the following five areas of safety performance. KYTC utilized data from 2015-2019 to establish the targets for 2021. The MPO has approved a resolution stating that the MPO concurs with and supports KYTC's safety performance measure targets by agreeing to plan and program projects so that they contribute toward the accomplishment of the safety targets.

<b>Table B1 - 2021 Safety Performance Targets</b>	<b>FY 2020 Targets</b>	<b>FY 2021 Targets</b>
Number of Fatalities	754	720
Fatality Rate/100 M VMT	1.5	1.5
Number of Serious Injuries	2,706	2,590
Serious Injury Rate/100 M VMT	5.4	5.4
Total # Non-Motorized Fatalities and Serious Injuries	287	285

## Asset Management and System Performance

The Asset Management performance measures established by USDOT monitor both pavement and bridge performance. Pavement performance targets have been set for both Interstate and Non-Interstate National Highway System (NHS) roadways and track the percentage of good and poor conditions for both. The bridge performance targets track the percentage of good and poor bridge conditions based on the deck area of the bridge. The System Performance targets analyze travel time reliability for the both passenger and commercial vehicles on Interstate highways and Non-Interstate NHS routes. For commercial vehicles, the Truck Travel Time Reliability (TTTR) Index measures the reliability of roadways for commercial vehicle travel. For instance, a high TTTR might indicate that traffic congestion could cause a delay for on-time deliveries.

Just as with the Safety Performance Targets, the MPO has concurred with the Asset Management and System Performance targets established by KYTC. The MPO will seek to plan for improvements that contribute toward the accomplishment of these performance targets.

Table B2 - Asset Management and System Performance Targets		
	Target	
	2 Year	4 Year
<b>Asset Management</b>		
Pavement Performance		
% Good Interstate	NA	50.0%
% Poor Interstate	NA	3.0%
% Good Non-Interstate	35.0%	35.0%
% Poor Non-Interstate	6.0%	6.0%
NHS Bridge Performance		
% Good Condition by Deck Area	35.0%	35.0%
% Poor Condition by Deck Area	3.7%	3.2%
<b>System Performance</b>		
Level of Travel Time Reliability (LOTTR)		
% Reliable Interstates	93.0%	93.0%
% Reliable Non-Interstate NHS	NA	82.5
Truck Travel Time Reliability (TTTR)	1.250	1.250

### Transit Asset Management

The Transit Authority of Central Kentucky (TACK) is the primary public transportation provider for the Radcliff/Elizabethtown metropolitan planning area, which includes Hardin and Meade Counties in Kentucky.

TACK established Transit Asset Management (TAM) Plan targets in accordance with Federal regulations enacted through the Moving Ahead for Progress in the 21<sup>st</sup> Century Act (MAP-21) for performance measures and target setting. It is the intent of these targets to improve transparency and accountability throughout the transportation planning processes. In July 2016, the Federal Transit Administration (FTA) issued a final rule requiring recipients of FTA funds to maintain and document minimum Transit Asset Management (TAM) standards. The targets below will be updated annually for each asset category in order to achieve compliance with the federal regulations for State of Good Repair (SGR) targets.

The MPO established the TAM targets listed below from TACK's TAM Plan 4-year targets. The following table shows the targets and actual for fiscal year 2018, and sets the fiscal year 2019 MPO TAM Target. The MPO will continue working with the local transit provider to establish MPO TAM Targets on an annual basis.



Table B3 - FY 2019 MPO Transit Asset Management (TAM) Targets				
Asset Category	Asset Class	2018 Count for Class Past Useful Life Benchmark (ULB)	2018 % Met or Exceed ULB	2019 Target
Rolling Stock	25' Bus	0 of 4	0%	0%
	27' Bus	0 of 3	0%	0%
	Cutaway	2 of 3	67%	67%
	Cutaway Wheelchair	3 of 13	23%	23%
	High Top	18 of 18	100%	100%
	High Top Wheelchair	8 of 8	100%	100%
	Minivan	8 of 14	57%	50%
	Minivan Wheelchair	0 of 8	0%	0%
Equipment	Support Vehicle	2 of 2	100%	100%
	Transit Wagon	0 of 1	0%	0%
Facilities	Transit Facility		0%	0%

### Transit Safety

In addition, the Transit Authority of Central Kentucky (TACK) has set the goal of keeping their fatalities and serious injuries at zero. The MPO has approved its support of these goals.

### Anticipated Performance Measure Effects

Twenty-four (24) projects designated in the Radcliff/Elizabethtown MPO's 2022-2026 TIP address these performance measures. They are enumerated in Table B4 below. There are eighteen (18) safety-related (motorized and non-motorized) projects. These are projects that contribute toward the goal of reducing deaths and serious injuries resulting from crashes on area roadways. The TIP contains six (6) projects that address pavement condition under the asset management performance measure. Two (2) TIP projects address System Reliability.

Table B4 - PROJECTS CONTRIBUTING TO THE ACHIEVEMENT OF HIGHWAY PERFORMANCE TARGETS				
KYTC ID	ROUTE	PROJECT DESCRIPTION	TOTAL PHASE COST	PERFORMANCE MEASURE
4-20.01	I-65	Improve the safety and increase the capacity of the I-65/KY 222 Interchange based on existing and future needs of the area.	\$33,000,000	Safety/System Reliability
4-154.20	US 31W	Operational Improvements on US 31W from US 31W Bypass to KY 447 to Improve Safety and Traffic Flow	\$2,750,000	Safety/System Reliability
4-442.00	US 62	Improve safety, mobility, and geometrics on US 62 from I-65 to Upper Colesburg Road (CR-1038)	\$7,500,000	Safety
4-8801.00	KY 1357	Improve safety, geometrics, drainage, and maintenance issues along KY 1357 (St. John Road) from US 31W Bypass to KY 3005 (Ring Road)	\$11,500,000	Safety
4-20011.00	US 31W	Address Pavement Condition	\$2,550,000	Asset Management - Pavement Condition
4-20011.10	US 31W	Address Pavement Condition	\$3,500,000	Asset Management - Pavement Condition
4-20014.00	US 31W	Address Pavement Condition - PCC Pavement	\$275,000	Asset Management - Pavement Condition
4-20013.00	US 31W	Address Pavement Condition	\$3,575,000	Asset Management - Pavement Condition
4-20015.00	WK 9001	Address Pavement Condition of Wendell H. Ford Western Kentucky Parkway both directions from MP 119.649 to MP 120.649	\$1,100,000	Asset Management - Pavement Condition
4-20016.00	WK 9001	Address Pavement Condition of Wendell H. Ford Western Kentucky Parkway both directions from MP 120.93 (120.65 Non-Cardinal) to MP 132.4 (130.95 Non-Cardinal).	\$10,120,000	Asset Management - Pavement Condition
4-9012.10	CS 1320 (N. Main St.)	Construct a Mini Roundabout at the Intersection of North Main St & Crutcher St.	\$225,000	Safety
4-9012.20	CS 1430 (Dolphin Dr.)	Construct a Mini Roundabout at the Intersection of Dolphin Dr. & Josale Dr.	\$265,000	Safety
4-9012.30	CS 1108 (Commerce Dr.)	Construct a Mini Roundabout at the Intersection of Commerce Dr. & Executive Dr.	\$350,000	Safety
4-9012.40	CS 1320 (N. Main St.)	Construct a Mini Roundabout at the Intersection of North Main St & Poplar St.	\$240,000	Safety
4-9012.50	CS 1193 (Woodland Dr.)	Construct a Mini Roundabout at the Intersection of Woodland Dr. & Layman Ln.	\$240,000	Safety

**Table B4 - PROJECTS CONTRIBUTING TO THE ACHIEVEMENT OF HIGHWAY PERFORMANCE TARGETS**

KYTC ID	ROUTE	PROJECT DESCRIPTION	TOTAL PHASE COST	PERFORMANCE MEASURE
4-9012.60	CS 1068 (W. Poplar St)	Construct a Mini Roundabout at the Intersection of Poplar St. & Sycamore St.	\$250,000	Safety
4-9012.70	CS 1068 (W. Poplar St)	Construct a Mini Roundabout at the Intersection of W. Poplar St. & N. Mantle Ave.	\$215,000	Safety
4-9008.50	US 31W	Intersection Improvements on US 31W from Diecks Drive to Pine Valley Drive to Reduce Conflict Points and Enhance Safety and Traffic Flow.	\$4,911,000	Safety
4-9016.00	KY 251	Overlay and restripe KY 251 to convert from a 4-lane section to a 3-lane section between W Dixie Avenue and Pear Orchard Road and construct mini roundabouts along KY 251 at the intersections with W. Poplar St., Beech St., Panther Lane, and Pear Orchard Road	\$1,080,000	Safety
4-9017.00	KY 1136	Construct a Roundabout at the Intersection of KY 1136 and US 31W Bypass	\$1,000,000	Safety
4-9002.00	KY 3005	Construct a RCUT at the Intersection of KY 3005 (Ring Road) and KY 1904 (Bacon Creek Road).	\$825,000	Safety
4-9015.00	US 62	Perform Low-Cost Safety Improvements on US 62 from MP 7.844 to MP 10.900 in Hardin County (2018BOP)	\$315,000	Safety
4-4311.00	KY 210	Install Guardrail on KY 210 in Hardin County.	\$18,000	Safety
-	-	Removal of existing, unsafe walkway on the west side of Main Street in conjunction with the new sidewalk project previously approved on the East side of Main Street. 860' of unsafe sidewalk and 200' of deteriorating retaining wall	\$199,936	Safety - Non-Motorized
		<b>Total Safety</b>	<b>\$29,133,936</b>	
		<b>Total Asset Management</b>	<b>\$21,120,000</b>	
		<b>Total System Reliability</b>	<b>\$35,750,000</b>	

# Appendix C

## Public/Stakeholder Comments

**From:** Radcliff - Elizabethtown Metropolitan Planning Organization wadmin@ltadd.org  
**Subject:** MPO Contact Form Response  
**Date:** September 13, 2021 at 11:48 AM  
**To:** mskaggs@ltadd.org, mrobinson@ltadd.org

---



[Radcliff - Elizabethtown Metropolitan Planning Organization](#)

## A new message has been received.

**name-field** : Steve Smallwood

**email-field** : [steve.smallwood@etown.kyschools.us](mailto:steve.smallwood@etown.kyschools.us)

**message** : We would like the crosswalk in front of EHS and Panther Academy to be looked at. This is our most dangerous crosswalk for students and would like for the city to look at alternatives to make it safer for students and drivers.

**From:** Radcliff - Elizabethtown Metropolitan Planning Organization wpadmin@ltadd.org  
**Subject:** MPO Contact Form Response  
**Date:** September 9, 2021 at 7:29 PM  
**To:** mskaggs@ltadd.org, mrobinson@ltadd.org

---



[Radcliff - Elizabethtown Metropolitan Planning Organization](#)

## A new message has been received.

**name-field :** Dusty Siravo

**email-field :** [dustyjune13@gmail.com](mailto:dustyjune13@gmail.com)

**message :** Please make a concerted effort to address the lack of safety for our children at the crosswalk on mulberry by Elizabethtown High School before a child is killed trying to cross the street

**gdpr\_send\_data :** on

**Send submitted data to user :** YES

**From:** Radcliff - Elizabethtown Metropolitan Planning Organization wpadmin@ltadd.org  
**Subject:** MPO Contact Form Response  
**Date:** September 7, 2021 at 6:52 PM  
**To:** mskaggs@ltadd.org, mrobinson@ltadd.org

---



[Radcliff - Elizabethtown Metropolitan Planning Organization](#)

## A new message has been received.

**name-field** : Karen Wright

**email-field** : kwright80@gmail.com

**message** : Please consider adding improvements to the pedestrian crosswalk at North Mulberry St and Panther Ln in Elizabethtown to the TIP. This crosswalk is poorly lit and poorly marked. Pedestrians are forced to cross four lanes of a heavily traveled road at once. Traffic in this area rarely stops for pedestrians waiting to use the crosswalk.

**gdpr\_send\_data** : on

**Send submitted data to user** : YES



On Thu, 19 Aug 2021 15:34:48 +0000

Radcliff - Elizabethtown Metropolitan Planning Organization <[wpadmin@ltadd.org](mailto:wpadmin@ltadd.org)> wrote:

Radcliff - Elizabethtown Metropolitan Planning Organization

A new message has been  
received.

name-field: Holly Butler email-field: [prayingshoes1979@gmail.com](mailto:prayingshoes1979@gmail.com)

message:

Dear Madam or Sir,

Please consider adding improvements to the pedestrian crosswalk at North Mulberry St and Panther Ln in Elizabethtown to the TIP. This crosswalk is poorly lit and poorly marked. Pedestrians are forced to cross four lanes of a heavily traveled road at once. Traffic in this area rarely stops for pedestrians waiting to use the crosswalk.

**From:** Shawn vashawn75@hotmail.com   
**Subject:** MPO TAC Public comment  
**Date:** August 3, 2021 at 5:30 PM  
**To:** mskaggs@ltadd.org

---

Mr. Skaggs,

I'm sorry I missed your call. I work in the range spaces of Ft. Knox and usually have poor wireless service. Thank you for providing a way for me to make a public comment to the MPO TAC.

My comment to the TAC is concerning the crosswalk at Mulberry St and Panther Ln. in front of Elizabethtown High School. If this crosswalk does not fall under the purview of the MPO, please let me know and withdraw my comment. I am also a little unclear on whether this comment should be directed to the TAC or to the Policy Committee, assuming it is within the MPO purview.

Comment begins:

I am requesting the Metropolitan Planning Organization consider improvements to the pedestrian crosswalk on North Mulberry St. at Panther Ln. in front of Elizabethtown High School.

This crosswalk is particularly difficult to use as there is no mid-point "safe haven" and pedestrians must cross four lanes of traffic at once. The crossing is not well lit and has nothing other than signage to alert motorists to the existence of the crosswalk. Traffic on Mulberry St. at this crosswalk does not typically stop for pedestrians as it does in the downtown square area and is also typically moving greater than 35 MPH, even with the school 25 MPH speed zone signs lit. This crosswalk is also commonly used prior to sunrise. Elizabethtown Independent Schools recently changed the start and end times of the school day with both shifting later in the day. Students are allowed in the building at 745AM. The latest sunrise time during the school year is 814AM on November 6<sup>th</sup>.

Pedestrians crossing Miles St. at the other end of Panther Ln. have a traffic signal plus pedestrian walk/don't walk signs. These pedestrians will eventually have a roundabout that will provide a "safe haven" area mid crossing.

I do not believe a traffic signal at the Mulberry St./ Panther Ln. intersection is necessary, but I would like to see an improvement that would alert motorists that the crosswalk is in use. I have seen pedestrian crossing signs that have a pushbutton that, when pushed, illuminates a flashing beacon on the crosswalk signs. Locally, these signs are in use on Ft. Knox near the former Wounded Warrior complex. Please see the attached picture for an example.

Please consider improving the North Mulberry St. crosswalk at Panther Ln. Thank you for your time.

Shawn Foy  
704 N Main St  
Elizabethtown, PA 17033

Comment ends.



# Appendix D

## Resolutions & Certifications



**RESOLUTION OF THE RADCLIFF/ELIZABETHTOWN  
METROPOLITAN PLANNING ORGANIZATION  
TRANSPORTATION IMPROVEMENT PROGRAM  
FISCAL YEAR 2022 – 2026**

WHEREAS, Section 134, Title 23, U.S.C. requires a continuing, comprehensive transportation planning process be carried out cooperatively in areas of more than 50,000 population; and

WHEREAS, Section 134, Title 23, U.S.C. further requires that the urban transportation planning process shall include the development of a Transportation Improvement Program (TIP) which shall identify projects that are scheduled in the Kentucky Transportation Cabinet Six-Year Highway Plan; all regionally significant projects/programs for the next four years; and

WHEREAS, the Transportation Improvement Program developed by the Radcliff/Elizabethtown Metropolitan Planning Organization (MPO) and reviewed by the Kentucky Transportation Cabinet and appropriate federal agencies; and

WHEREAS, the transportation planning process is being carried on in conformance with all federal requirements and has been so certified; and

WHEREAS, the Radcliff/Elizabethtown MPO Policy Committee is the officially designated MPO for transportation planning in the Radcliff/Elizabethtown Urban Area, and is responsible for developing the TIP; and

WHEREAS, the Technical Advisory Committee of the MPO has endorsed and recommended the Transportation Improvement Program, FY 2022-2026, to the Policy Committee; and

THEREFORE, BE IT RESOLVED, that the MPO Policy Committee at their public meeting of September 16, 2021 approves the *Transportation Improvement Program, FY 2022-2026*, of the Radcliff/Elizabethtown Urban Area and submits the Transportation Improvement Program to the Kentucky Transportation Cabinet.

Harry L. Berry, Chairman  
Radcliff/Elizabethtown Metropolitan Planning Organization

16 Sep 2021  
DATE

Paul Sanders, Chief District Engineer,  
Kentucky Transportation Cabinet, District 4

9/16/2021  
DATE

## METROPOLITAN TRANSPORTATION PLANNING PROCESS CERTIFICATION

In accordance with 23 CFR 450.334, the Kentucky Transportation Cabinet and the Radcliff/Elizabethtown Metropolitan Planning Organization hereby certify that the transportation planning process is addressing the major issues in the metropolitan planning area and is being conducted in accordance with all applicable requirements of Titles 23 and 49 USC, specifically:

1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart;
2. Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d-1) and 49 CFR part 21;
3. 49 U.S.C. 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
4. 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;
5. 23 CFR part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts;
6. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) and 49 CFR parts 27, 37, and 38;
7. The Older Americans Act, as amended (42 U.S.C. 6101), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
8. Section 324 of title 23 U.S.C. regarding the prohibition of discrimination based on gender; and
9. Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. 794) and 49 CFR part 27 regarding discrimination against individuals with disabilities.



Honorable Harry L. Berry, Chairman  
Radcliff/Elizabethtown Metropolitan Planning Organization

16 Sep 2021  
DATE



Paul Sanders, Chief District Engineer  
Kentucky Transportation Cabinet, District 4

9/16/2021  
DATE



COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET

transportation.ky.gov

Andy Beshear  
GOVERNOR

Jim Gray  
SECRETARY

September 29, 2021

Mr. Mike Skaggs  
Radcliff-Elizabethtown Metropolitan Planning Organization  
613 College Street Road, P.O. Box 604  
Elizabethtown, KY 42702-0604

Dear Mr. Skaggs:

The Kentucky Transportation Cabinet (KYTC) has reviewed the Radcliff-Elizabethtown Metropolitan Planning Organization's FY 2022-2026 Transportation Improvement Program (TIP) for compliance with the metropolitan planning requirements included in the Fixing America's Surface Transportation (FAST) Act.

It is my pleasure to approve the Radcliff-Elizabethtown TIP as Governor Andy Beshear's Designee. The KYTC will incorporate the new TIP by reference in Kentucky's Statewide Transportation Improvement Program (STIP).

Please contact Barry House in the Division of Planning for any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to be "J. Gray", written over the printed name.

Jim Gray  
Secretary

MP/BCH/BSK

c: Mikael Pelfrey  
John Ballantyne



U.S. Department  
of Transportation  
**Federal Highway  
Administration**

**Kentucky Division**

September 28, 2021

330 West Broadway  
Frankfort, KY 40601  
PH (502) 223-6720  
FAX (502) 223 6735  
<http://www.fhwa.dot.gov/kydiv>

In Reply Refer To:  
HDA-KY

Mr. Michael G. Burress  
Executive Director  
Radcliff/Elizabethtown Metropolitan Planning Organization  
c/o Lincoln Trail Area Development District  
P. O. Box 604  
Elizabethtown, KY 42702-0604

Dear Mr. Burress:

The Kentucky Division Office of the Federal Highway Administration (FHWA) reviewed the following planning document:

2022-2026 Transportation Improvement Program (TIP) for the  
Radcliff/Elizabethtown Metropolitan Planning Organization (MPO)  
(MPO resolution approval date of September 16, 2021)

We now find that it meets the federal planning requirements of 23 USC Section 134, and 49 USC Section 5303.

23 CFR 450.330 requires a planning finding that each TIP is consistent with the metropolitan transportation plan (MTP) produced by the continuing and comprehensive transportation process carried on cooperatively by the MPO, the State, and the public transportation operator(s).

Our finding is based on, but is not limited to the:

- Self-certification submitted by the State and MPO under 23 CFR 450.336
- Adequacy of the public involvement process,
- Reasonableness of the financial plan,
- Relationship of projects in the TIP to the MTP,
- Governor's approval of the TIP

Please contact Bernadette Dupont at (502) 223-6729 if you have any questions.

Sincerely,

JOHN D  
BALLANTYNE

Digitally signed by JOHN  
D BALLANTYNE  
Date: 2021.09.29  
16:17:11 -04'00'

John Ballantyne  
System Performance Team Leader

cc: Mikael Pelfrey, KYTC - Planning



# Appendix E

## Informational Supplement

This section includes state-funded projects that are either not classified as “regionally significant” (and thus are not required to be formally included in the TIP); and/or projects which appear in the Kentucky 6-Year Highway Plan that have over-programmed state funding sources (and thus funding may not be readily available as indicated for these projects in the future). These two project types are not officially part of the TIP but are listed for informational purposes. The costs for these projects are not shown in Table 11 – Funding Summary.

**Appendix E**  
**Radcliff/Elizabethtown MPO**  
**Transportation Improvement Program**  
**FY 2022-2026**  
**State Funded Projects (Supplemental Information)**

ROUTE	KYTC ID	COUNTY	DESCRIPTION	TYPE OF FUNDS	PHASE	YEAR	COST	TOTAL PROJECT COST	RESPONSIBLE AGENCY
US 31W	4-154.30	Hardin	Address Safety, Congestion, and Mobility along US 31W from Veterans Way in Elizabethtown to the N. Wilson Road Overpass in Radcliff	SPP	D	2021	\$500,000	\$11,500,000	KYTC - Dist. 4
					R	2024	\$1,000,000		
					U	2024	\$1,000,000		
					C	2024	\$9,000,000		
KY 3005	4-198.00	Hardin	Extend Ring Road from the Western Kentucky Parkway to I-65	SPP	U	2023	\$1,560,000	\$22,940,000	KYTC - Dist. 4
					C		\$21,380,000		
KY 79	4-8702.00	Meade	Reconstruct KY 79 from KY 428 to KY 144 & Address Safety and Geometric Deficiencies on KY 79 from KY 477 to KY 428.	SPP	D	2021	\$400,000	\$11,240,000	KYTC - Dist. 4
					R	2022	\$1,706,000		
					U	2022	\$1,845,000		
					C	2023	\$7,289,000		
KY 79	4-8705.00	Meade	Reconstruct KY 79 from KY 144 to KY 1051	SPP	U	2021	\$4,500,000	\$16,670,000	KYTC - Dist. 4
					C	2024	\$12,170,000		