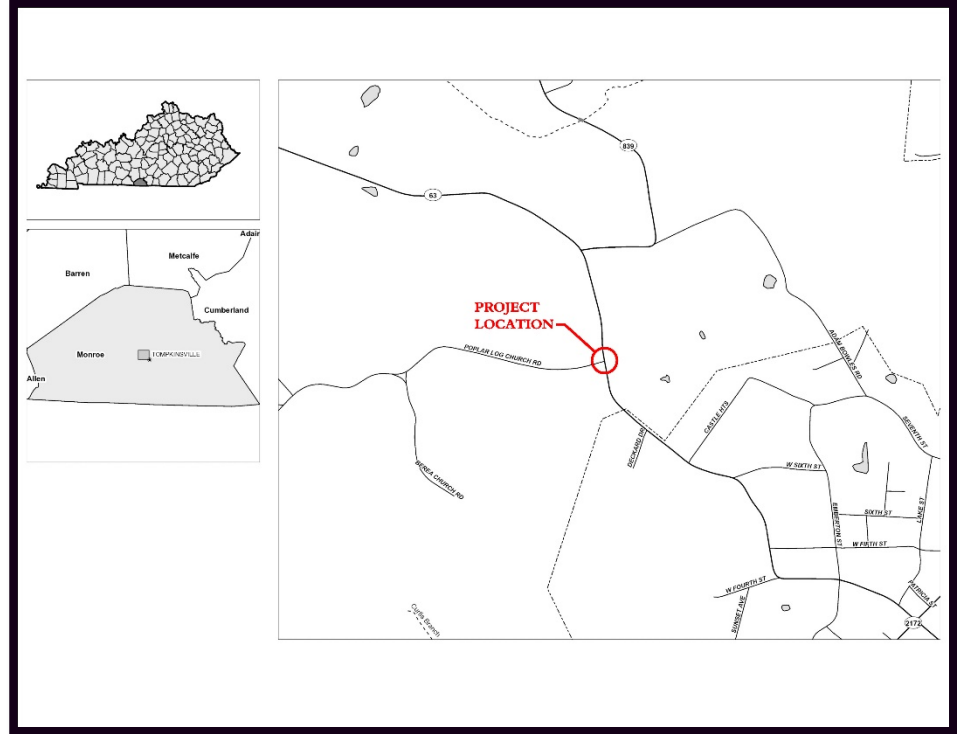


Data

Needs

Analysis



Scoping Study



KY 63, Monroe County
KY 63 at Poplar Log Church
Road
Item No. 3-8954.00

Prepared by the KYTC
Division of Planning and
KYTC District 3

November 2021



I. PRELIMINARY PROJECT INFORMATION

County:	Monroe	Item No.:	3-8954.00
Route Number(s):*	KY 63	Road Name:	Old Glasgow Road
Program No.:	1357201D	UPN:	FD04 086 63 010-011
Federal Project No.:	STP 9031030	Type of Work:	Reconstruction

2020 **Highway Plan Project Description:**

RECONSTRUCT INTERSECTION OF KY 63 AND POPLAR LOG CHURCH ROAD (2020CCN)

Beginning MP:	10.5	Ending MP:	10.6	Project Length:	0.1
In TIP:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Use PDP/CHAF to Verify Project Data			
State Class.:	<input type="checkbox"/> Primary <input checked="" type="checkbox"/> Secondary	Route is on:	<input type="checkbox"/> NHS <input type="checkbox"/> NN <input type="checkbox"/> Ext Wt		
Functional Class.:	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural <input type="text" value="Collector"/>	Truck Class.:	AAA	% Trucks:	8.838
MPO Area:	Not Applicable	Terrain:	Mountainous		
ADT (current):	<u>1262</u> 2019				
Access Control:	<input type="checkbox"/> None <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled <input type="checkbox"/> Partial	Spacing:			
Median Type:	<input checked="" type="checkbox"/> Undivided <input type="checkbox"/> Divided (Type):				
Existing Bike Accommodations:	Shared Lane	Ped:	<input type="checkbox"/> Sidewalk		
Posted Speed:	<input checked="" type="checkbox"/> 35 mph <input type="checkbox"/> 45 mph <input type="checkbox"/> 55 mph <input type="checkbox"/> Other (Specify):				
KYTC Guidelines Preliminarily Based on :	45 MPH Proposed Design Speed				

Roadway Data:	COMMON GEOMETRIC		
	EXISTING	PRACTICES**	
No. of Lanes	<u>2</u>	<u>2</u>	Existing Rdwy. Plans available?
Lane Width	<u>11'</u>	<u>11'</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Shoulder Width	<u>4 (1'paved 3' unpaved)</u>	<u>4'</u>	Year of Plans: <u>1945</u>
Max. Superelevation***	<u>NA</u>	<u>8%</u>	<input type="checkbox"/> Traffic Forecast Requested
Minimum Radius***	<u>NA</u>	<u>587'</u>	Date Requested: _____
Maximum Grade	<u>11%</u>	<u>10%</u>	<input type="checkbox"/> Mapping/Survey Requested
Minimum Sight Dist.	<u><250'</u>	<u>360'</u>	Date Requested: _____
Sidewalk Width(urban)	<u>NA</u>	<u>NA</u>	Type: _____
Clear-zone [†]	<u>Varies</u>	<u>16'-20'</u>	
Project Notes/Design Exceptions?	NA		

Bridge No.:#	<u>NA</u>	<u>(Bridge #2)</u>	
Sufficiency Rating			
Total Length			Existing Geotech Data Available?
Width, curb to curb			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Span Lengths			
Year Built			
Posted Weight Limit			Detour Length(s): _____
Structurally Deficient?			
Functionally Obsolete?			
Existing Bridge Type			

*If more than one road is included in the project, include additional sheets.
 **Based on proposed Design Speed
 ***AASHTO's A Policy on Geometric Design of Highways and Streets
 †AASHTO's Roadside Design Guide
 ‡If more than two bridges are located on the project, include additional sheets.

II. PROJECT PURPOSE AND NEED

A. Legislation

The following was listed in the Kentucky FY20-FY26 Enacted Highway Plan.

<i>Funding</i>	<i>Phase</i>	<i>Year</i>	<i>Amount</i>
SPP	D	2021	\$250,000
SPP	R	2021	\$410,000
SPP	U	2022	\$510,000
SPP	C	2022	\$960,000

B. Project Status

This project was identified as the No. 2 priority project by local officials in the 2020 SHIFT prioritization process. This project was sponsored and boosted by the Barren River Area Development District. Design funds were authorized on 7/2/2021.

C. System Linkage

KY 63 is a Rural Major Collector within the project limits. This portion of KY 63 can be used as a route between Tompkinsville and Glasgow. As a major collector, this route connects the rural portions of northwest Monroe County to the city of Tompkinsville.

D. Modal Interrelationships

Because of the rural nature of the area, the movement of large farm equipment should be considered for design decisions

E. Social Demands & Economic Development

This portion of KY 63 serves to connect the farming operations and small communities in northwest Monroe County to the commercial and educational centers in Tompkinsville.

II. PROJECT PURPOSE AND NEED (cont.)

F. Transportation Demand

The last actual traffic counts that are included with this section of KY 63 is 1262 and 8.838% trucks in 2019. Counts have been on a slight decreasing trend since 2013 but seem to be hovering around 1500 AADT since 2007.

G. Capacity

Due to the rural nature of this route, capacity is not a concern.

H. Safety

No crashes were found in the Highway Information View and Extract Interface for the five year period of 2016-2020. This could be due to local law enforcement still needing to submit reports into the Kentucky State Police collision database for KYTC to review. Input from local officials has identified this intersection as unsafe due to the limited sight distance caused by a vertical crest near the intersection.

I. Roadway Deficiencies

The horizontal geometry in the immediate vicinity of the intersection of KY 63 with Poplar Log Church Road is in a tangent. To the north there is slight curvature and to the south there is a curve. All horizontal curves are sized appropriately for the speed limit. The first vertical crest curve to the north of the intersection creates sight distance issues for drivers pulling out of Poplar Log Church Road onto KY 63.

III. PRELIMINARY ENVIRONMENTAL OVERVIEW

A. Air Quality

Project is in: Attainment area Nonattainment or Maintenance Area PM 2.5 County

STIP Pg.#: TIP Pg.#:

The Design Phase in SPP funds was added to the FY19-22 STIP as part of Administrative Modification 2018.306 on 6/16/21

B. Archeology/Historic Resources

Known Archeological or Historic Resources are present

Section 106 will apply and SHPO clearances for archeology and historic will be required. There were no sites observed within the environmental footprint that appear to be eligible for the NRHP.

C. Threatened and Endangered Species

There are no critical habitat at this location. The Gray bat and Indiana bat are endangered species, and the Northern long eared bat is threatened. Anticipate that seasonal tree clearing restrictions will be required to minimize potential adverse effects to Indiana bats. Expect a subject matter expert to conduct a further survey.

D. Hazardous Materials

Potentially Contaminated Sites are present Potential Bridge or Structure Demolition

There are no known hazardous materials located within the corridor.

E. Permitting

Check all that may apply: Waters of the US MS4 area Floodplain Impacts Navigable Waters of the US Impacts

Are 401/404 Permits likely to be required? Yes No Impacts to: Wetlands Stream/Lake/Pond

ACE LON ACE NW ACE IP DOW IWQC Special Use Waters

DEA Permit Coordinator will prepare the needed documentation for the permits.

F. Noise

Are existing or planned noise sensitive receptors adjacent to the proposed project? Yes No

Is this considered a "Type I Project" according to [KYTC Noise Analysis and Abatement Policy?](#) Yes No

No noise analysis is required.

G. Socioeconomic

Check all that may apply: Low Income/Minority Populations Relocations Local Land Use Plan available

This project is in a rural area, and there are no relocations that will be required for the construction of this project.

H. Section 4(f) or 6(f) Resources

The following are present on the project: Section 4(f) Resources Section 6(f) Resources

There are no 4(f) or 6(f) resources within the direct impact areas.

[Anticipated Environmental Document:](#)

CE Level 1



IV. PROJECT NEED, PURPOSE & SCOPE

A. Need:

KY 63 between MP 10.5 and 10.6 is part of a two lane facility that provides connection for rural northwest Monroe county citizens and farm operation to the city of Tompkinsville. This route also provides a secondary linkage between Tompkinsville and the city of Glasgow. The area is generally rural in nature. The vertical crest curve immediately north of the intersection of Poplar Log Church Road with KY 63 has created a sight distance and safety concern.

B. Purpose:

The purpose of this project is to address the vertical geometric deficiency immediately north of the intersection of Poplar Log Church Road with KY 63.

C. Scope:

The original scope for this project was to cut down the crest hill that is inhibiting sight distance but other options may be considered for design.

V. PROJECT ESTIMATE & METHODOLOGY

Estimate Methodology:	Current Estimate	
The current estimate is based on a scope of increasing stopping sight distance by flattening the existing crest vertical curve just north of the intersection of KY 63 with Poplar Log Church Road.	<u>Phase</u>	<u>Estimate</u>
	Planning	
	Design	\$250,000
	R/W	\$410,000
	Utilities	\$510,000
	Const	\$960,000
	Total	\$2,130,000

VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

- Company Name - East Kentucky Power Cooperative, Incorporated
- Contact - Rob Young, Transmission Engineer Design Manager
- Address - 4775 Lexington Road Winchester, Kentucky 40392
- Phone No. - 1-859-745-9601

- Company Name - Tri-County Electric Membership Coop Corp
- Contact - Steve Linville, Engineer
- Address - 405 College Street Lafayette, Tennessee 37083
- Phone No. - 615-666-2111

- Company Name - Tennessee Valley Authority
- Contact - William F. Mills, Transmission Service Manager
- Address - 6045 Russellville Road BG KY 42101
- Phone No. - 270-846-7049

- Company Name - Texas Eastern Transmission LP
- Contact - Ronnie Acorn, Manager Right of Way
- Address - 1745 Airport Road Danville KY 40422
- Phone No. - 859-854-3998

- Company Name - City of Tompkinsville, KY Natural Gas System
- Contact - Scotty Turner, Mayor
- Address - 206 North Magnolia Street Tompkinsville KY 42167
- Phone No. - 270-487-6776

- Company Name - North Central Telephone Cooperative Incorporated
- Contact - Troy Davis, Engineer
- Address - 872 HWY 52 East Bypass Lafayette, TN 37083
- Phone No. - 615-666-2151

Company Name -	SCRCTC
Contact -	Kenny McGuire, Engineering Supervisor
Address -	1399 Happy Valley Road, Glasgow KY 41242
Phone No. -	270-678-8208
Company Name -	Windstream Communications
Contact -	Barry Roberts, OSP Implementation Mgr.
Address -	111 South Main Street Elizabethtown KY 42701
Phone No. -	270-765-1817
Company Name -	Mediacom
Contact -	Brien Ramey, Construction Specialist
Address -	90 North Main Street Benton, KY 42025
Phone No. -	270-527-9939
Company Name -	City of Tompkinsville Water and Sewer Dept.
Contact -	Scotty Turner, Mayor
Address -	206 North Magnolia St. Tompkinsville, KY42167
Phone No. -	270-487-6776
Company Name -	Monroe County Water District
Contact -	Robert Capps, General Manager
Address -	205 Cap Harlan Road Tompkinsville, KY 42167
Phone No. -	270-487-8131

VII. TABLES AND EXHIBITS

Looking North on KY 63



KY 63 looking south

