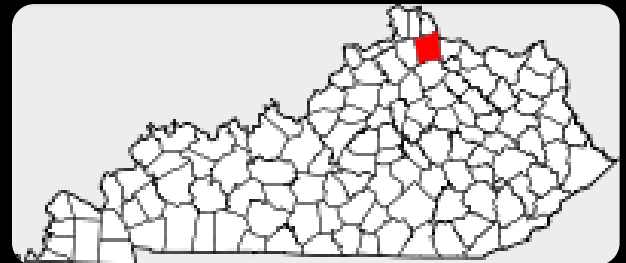
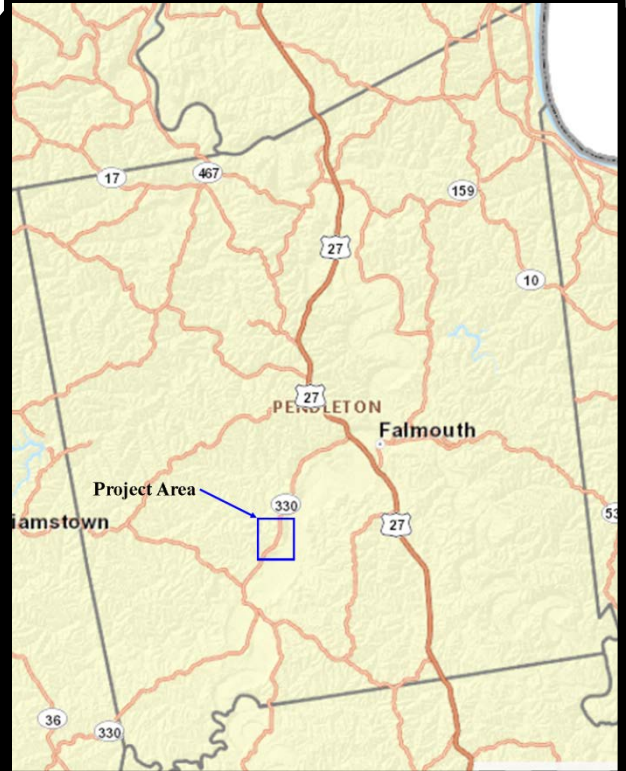


Data

Needs

Analysis

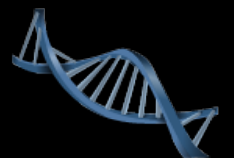
Scoping Study



Pendleton County
KY 330
From MP 8.638 to 8.678
Item No. 6-1081

Prepared by the KYTC
Division of Planning
KYTC District 6

November 2012



I. PRELIMINARY PROJECT INFORMATION

County:	Pendleton	Item No.:	6-1081
Route Number(s):	KY 330	Road Name:	Falmouth - Mt Auburn Rd
Program No.:	86697	UPN:	FD52 96 330 008-009
Federal Project No.:	BRO 0603(231)	Type of Work:	Bridge Replacement

2012 Highway Plan Project Description:

Replace bridge on KY 330 over Short Creek 0.35 miles north of J H Goodman Rd (CR 1238) (SR 47.4)
096B00012N

Beginning MP: 8.638 **Ending MP:** 8.678 **Project Length:** 0.04

Functional Class.: ☐ Urban ☒ Rural
Collector
State Class.: ☐ Primary ☒ Secondary
Route is on: ☐ NHS ☐ NN ☐ Ext Wt

MPO Area: Not Applicable
In TIP: ☐ Yes ☐ No

Truck Class.: A
% Trucks: N/A

ADT (current): 1392 2009

Terrain: Rolling

Access Control: ☐ None ☒ Permit ☐ Fully Controlled ☐ Partial Spacing:

Median Type: ☒ Undivided ☐ Divided (Type):

Existing Bike Accommodations: Shared Lane **Ped:** ☐ Sidewalk

Posted Speed: ☐ 35 mph ☐ 45 mph ☒ 55 mph ☐ Other (Specify):

KYTC Guidelines Preliminarily Based on : 55 **MPH Proposed Design Speed**

COMMON GEOMETRIC

Roadway Data:	EXISTING	PRACTICES*	
No. of Lanes	2	2	Existing Rdwy. Plans available?
Lane Width	10 ft	11 ft	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Shoulder Width	2 ft	5 ft	Year of Plans: 1938
Max. Superelevation**	N/A	6%	<input type="checkbox"/> Traffic Forecast Requested
Minimum Radius**	1549 ft	1065 ft	Date Requested: <input type="button" value="v"/>
Maximum Grade	N/A	7%	<input type="checkbox"/> Mapping/Survey Requested
Minimum Sight Dist.	10% >= 1500 ft	495 ft	Date Requested: <input type="button" value="v"/>
Sidewalk Width(urban)	N/A	N/A	Type: <input type="button" value="v"/>
Clear-zone***	N/A	**	

Project Notes/Design Exceptions?: ** Slope of 1V:3H, fixed objects should not be present in vicinity

*Based on proposed Design Speed, **AASHTO's A Policy on Geometric Design of Highways and Streets, ***AASHTO's Roadside Design Guide

Bridge No.*:	(Bridge #1)	(Bridge #2)	
Sufficiency Rating	47.3	N/A	Existing Geotech data available?
Total Length	116.7 ft	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Width, curb to curb	23.3 ft	N/A	
Span Lengths	36.1 ft	N/A	Detour Length(s): 15.0 miles
Year Built	1938	N/A	
Posted Weight Limit	Not Posted	N/A	
Structurally Deficient?	Yes	N/A	
Functionally Obsolete?	No	N/A	
Existing Bridge Type	Concrete Tee Beam	N/A	

*If more than two bridges are located on the project, include additions sheets.

II. PROJECT PURPOSE AND NEED				
A. Legislation				
The following funding is listed in the Kentucky Transportation Cabinet 2012 - 2018 6 Year Highway Plan as item number 6-1081 Page 125	Funding	Phase	Year	Amount
	BRX	D	2014	\$350,000
	BRX	R	2015	\$50,000
	BRX	U	2015	\$25,000
	BRX	C	2016	\$500,000
B. Project Status				
Project is listed in the TC-10 project authorization no. 86697 providing \$350,000 in initial design funds to begin the desing phase of the project.				
C. System Linkage				
This bridge crosses Short Creek on KY 330 at MP 8.6 in Pendleton County. This route provides a route from Falmouth & US 27 to US 25 & I-75 in Corinth. It also links to KY 1054 & KY 36.				
D. Modal Interrelationships				
This route is not a major freight route.				
E. Social Demands & Economic Development				
The bridge on KY 330 will have minimal impact of Economic Development. The route provides access to Falmouth & Kincaide Lake State Park from the southwest & I-75.				
F. Transportation Demand				
The ADT was 1392 in 2009 on this section of KY 330. Some traffic increase is possible in the future with more visitors to Falmouth & Kincaide Lake State Park.				

II. PROJECT PURPOSE AND NEED (cont.)

G. Capacity

The bridge on KY 330 is a two lane bridge with no shoulders. Given the current ADT of 1392, capacity is not a problem.

H. Safety

Collision data for a 5 year period from 07/01/2007 to 6/30/2012 from MP 8.0 to MP 9.0 on KY 330 indicate there were 4 collisions with 0 injuries. 3 of the crashes were single vehicle and two involved a collision with an animal. Crash data indicates that there is not a major safety issue in the area.

I. Roadway Deficiencies

The bridge over ShortCreek is structurally deficient and needs replacement. Sufficiency Rating from the 2012 KYTC Bridge Inspection Report is 47.3

Draft Purpose and Need Statement:

Need: The bridge on KY 330 over Short Creek is structurally deficient and needs to be replaced.

Purpose: The purpose is to address the replacement of this bridge and the impacts it will have on the region to provide safe and reliable travel.

III. PRELIMINARY ENVIRONMENTAL OVERVIEW

A. Air Quality

Project is in: ☒ Attainment area ☐ Nonattainment or Maintenance Area ☐ PM 2.5 County
STIP Pg. #: 104 TIP Pg. #:

B. Archeology/Historic Resources

☐ Known Archeological or Historic Resources are present

No known historical building in the area will be affected. Unknown if any archeology resources are in the area.

C. Threatened and Endangered Species

Possible presence of bat habits in the area as well as mussel species in the creek near the bridge.

D. Hazardous Materials

☐ Potentially Contaminated Sites are present ☒ Potential Bridge or Structure Demolition

Bridge demolition may cause hazardous materials to get into the creek.

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

Permit may be required due to impacts to the creek.

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 the [KYTC Noise Analysis and Abatement Policy?](#) ☐ Yes ☒ No

G. Socioeconomic

Check all that may apply: ☐ Low Income/Minority Populations affected ☐ Relocations ☐ Local Land Use Plan available
No impact to any socioeconomic categories.

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

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

No section 4(f) or 6(f) properties.

Anticipated Environmental Document:

CE Level 1



IV. PROJECT SCOPING

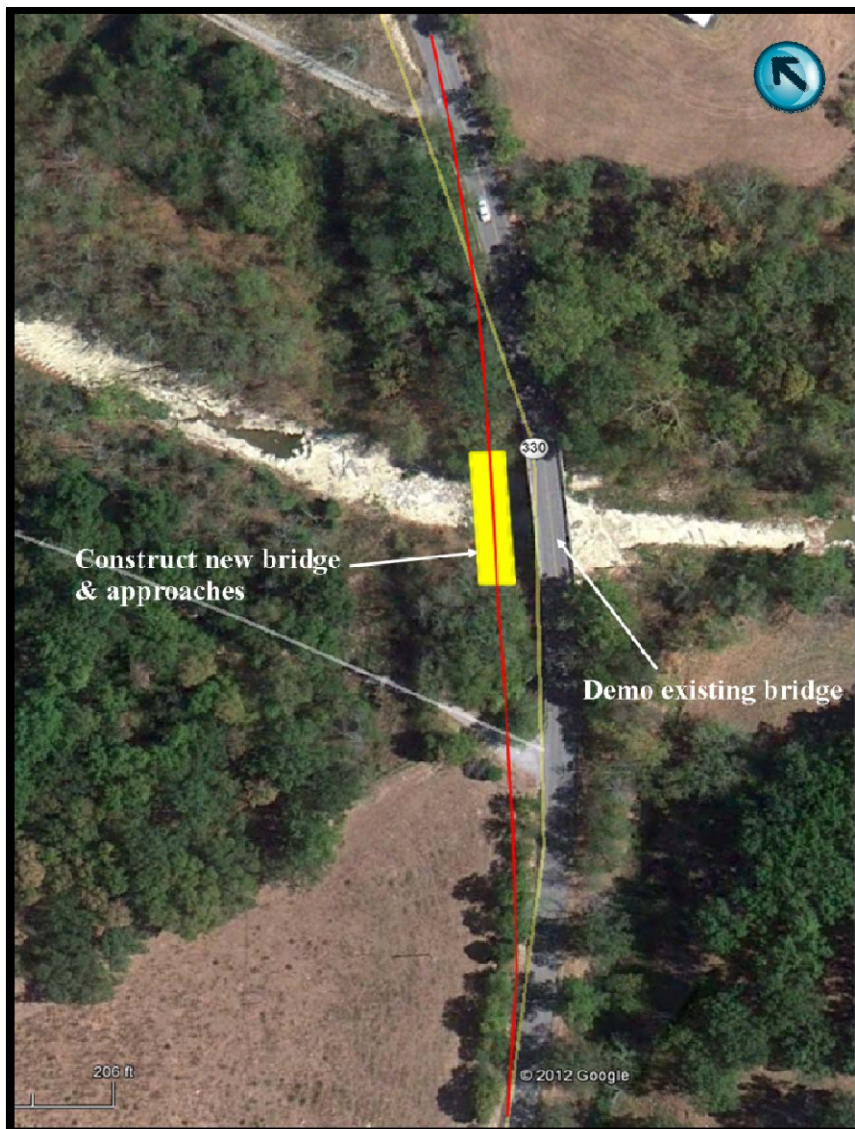
A. Alternative 1: No Build

The bridge will continue to deteriorate, need repair, and eventual replacement.

B. Alternative 2: Replace Bridge

Construct new bridge to replace existing bridge.

Begin constructing new bridge adjacent to the existing bridge on the northwest side. Construct new approaches from the north and the south ends of the new bridge. Route traffic onto new bridge when completed. Demo old bridge. Note: The new bridge may be built on the northeast side of the existing bridge if estimated to be more feasible and cost effective.



Current Estimate

Phase	Estimate
Design	\$350,000
R/W	\$50,000
Utilites	\$25,000
Const	\$500,000
Total	\$925,000

V. Summary

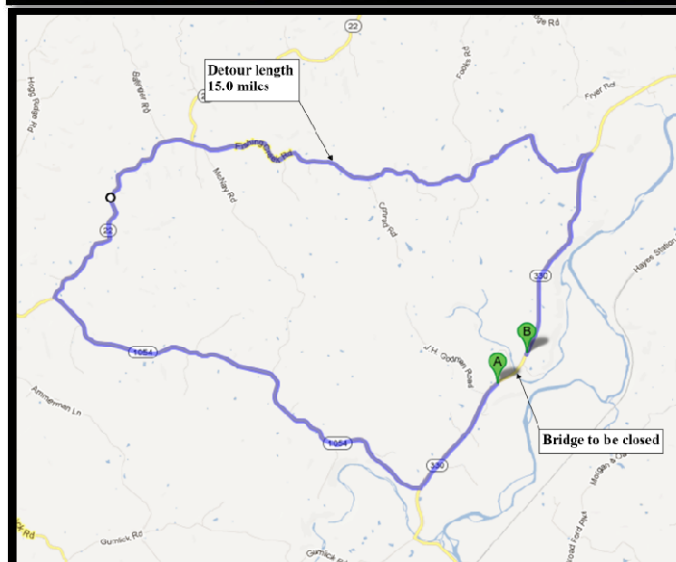
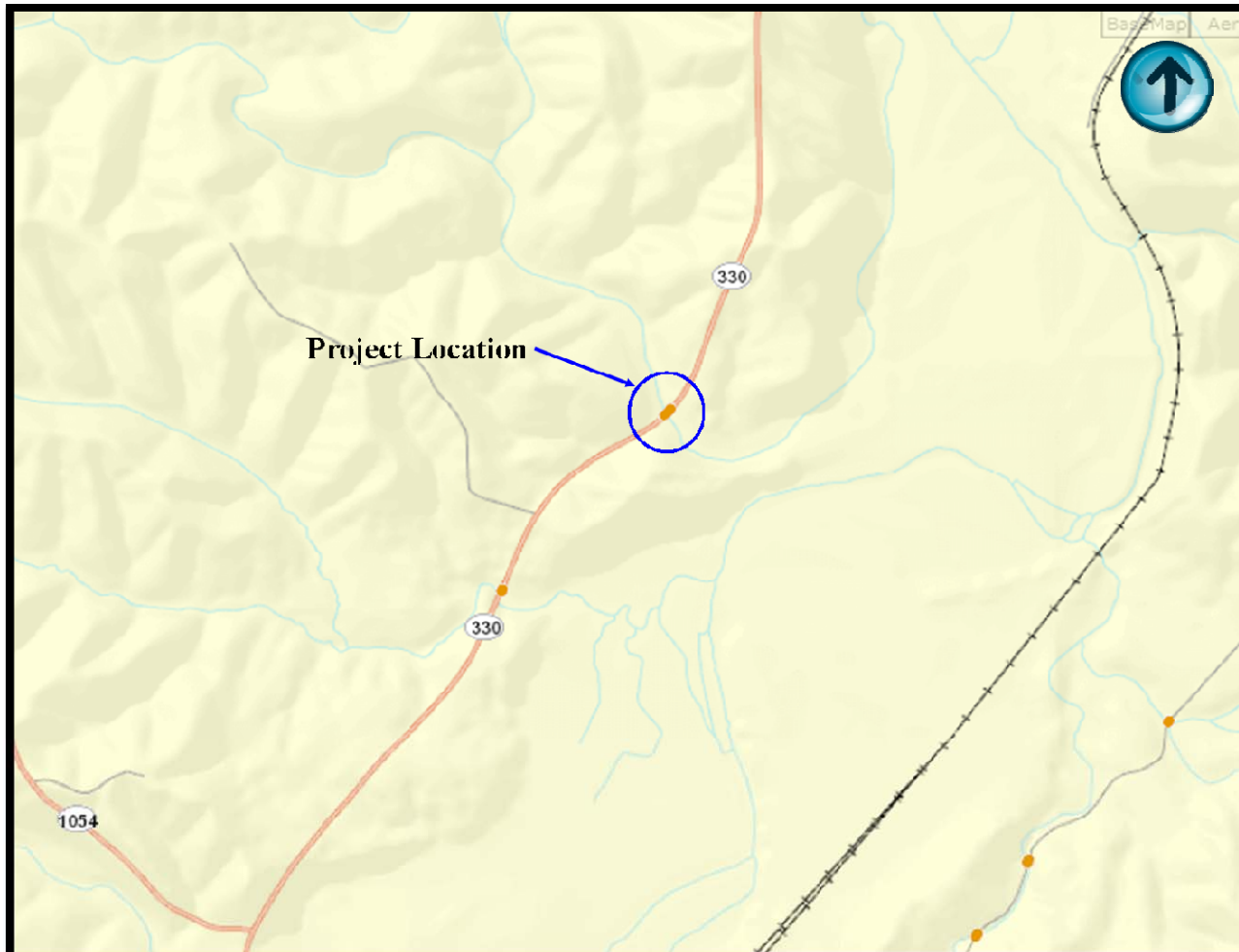
The bridge over Short Creek in Pendleton County is structurally deficient and needs replacement. The alternative 2 to replace the bridge is recommended and can be constructed within the budgeted amount. The no build alternative is not recommended for the long term but can be allowed for the short term.



VI. Tables and Exhibits

Project Location Map

Bridge located on KY 330 approx 1.5 miles north of KY 1054.



Detour length if bridge is closed to traffic is approx 15 miles. This option may be used if it is determined that construction of a new bridge adjacent to the existing bridge is not feasible or cost effective. The detour would travel along KY 330 , KY 1054, KY 22, and Fishing Creek Rd in Pendleton County.