

## I. PRELIMINARY PROJECT INFORMATION

<b>County:</b>	Campbell	<b>Item No.:</b>	6-407
<b>Route Number(s):</b>	KY 9	<b>Road Name:</b>	Licking Pike
<b>Program No.:</b>		<b>UPN:</b>	(Function) (County #) (Route) (MPs)
<b>Federal Project No.:</b>		<b>Type of Work:</b>	
(Year) <b>Highway Plan Project Description:</b>			
KY 9 Extension, Campbell County			

<b>Beginning MP:</b>	21.9	<b>Ending MP:</b>	21.92	<b>Project Length:</b>	0.02
<b>Functional Class.:</b>	<input checked="" type="checkbox"/> Urban <input type="checkbox"/> Rural	<b>State Class.:</b>	<input type="checkbox"/> Primary <input type="checkbox"/> Secondary		
	Arterial ▼	<b>Route is on:</b>	<input type="checkbox"/> NHS <input type="checkbox"/> NN <input type="checkbox"/> Ext Wt		
<b>MPO Area:</b>	OKI ▼	<b>Truck Class.:</b>	AAA ▼		
<b>In TIP:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>% Trucks:</b>			
<b>ADT (current):</b>	7150 2,009	<b>Terrain:</b>	Level ▼		
<b>Access Control:</b>	<input type="checkbox"/> None <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled	<b>Partial Spacing:</b>	<input type="checkbox"/> Partial	Spacing: ▼	
<b>Median Type:</b>	<input checked="" type="checkbox"/> Undivided <input type="checkbox"/> Divided (Type):				
<b>Existing Bike Accommodations:</b>	None ▼	<b>Ped:</b>	<input checked="" type="checkbox"/> Sidewalk		
<b>Posted Speed:</b>	<input checked="" type="checkbox"/> 35 mph <input type="checkbox"/> 45 mph <input type="checkbox"/> 55 mph	<b>Other (Specify):</b>			
<b>KYTC Guidelines Preliminarily Based on :</b>	35 MPH Proposed Design Speed				

## COMMON GEOMETRIC

Roadway Data:	EXISTING	PRACTICES*	
No. of Lanes	4	4	<a href="#">Existing Rdwy. Plans available?</a> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Lane Width	12	12	
Shoulder Width	na	na	Year of Plans: 1955
Max. Superelevation**	na	na	<input type="checkbox"/> <a href="#">Traffic Forecast Requested</a>
Minimum Radius**	na	na	Date Requested:
Maximum Grade	8%	8%	<input type="checkbox"/> Mapping/Survey Requested
Minimum Sight Dist.	225	225	Date Requested:
Sidewalk Width(urban)	5	5	Type: ▼
Clear-zone***			
<b>Project Notes/Design Exceptions?:</b>	Vertical Clearance due to the Railroad bridge		

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

<b>Bridge No.*:</b>	019R0060N (Bridge #2)	
<b>Sufficiency Rating</b>	n/a	<a href="#">Existing Geotech data available?</a> <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Total Length</b>	150	
<b>Width, curb to curb</b>		*If more than two bridges are located on the project, include additions sheets.
<b>Span Lengths</b>	150	
<b>Year Built</b>		
<b>Posted Weight Limit</b>	n/a	
<b>Structurally Deficient?</b>	Super/sub structure are in fair condition	
<b>Functionally Obsolete?</b>	Substandard vertical clearance (13.58 to 14.29)	

## II. PROJECT PURPOSE AND NEED

### A. Legislation

KY 9 Extension, Campbell County	<i>Funding</i>	<i>Phase</i>	<i>Year</i>	<i>Amount</i>
	KYD	Design	2011	\$344,520
	STP	R/W	2012	\$100,000
	STP	Utilities	2012	\$275,000
	STP	Const.	2013	\$1,100,000

### B. Project Status

Design Funds are available

### C. System Linkage

KY 9 is a major North-South route in Campbell County, KY, that links Cincinnati, OH to Ashland KY.

### D. Modal Interrelationships

This Railroad structure causes sight distance and vertical clearance restrictions on KY 9.

### E. Social Demands & Economic Development

With the reconstruction of KY 9 north of this railroad bridge traffic will increase in this area and the restrictions this bridge places on the roadway will become more apparent.

### F. Transportation Demand

There is industrial development all around this corridor that could be greatly enhanced with increased clearance on this structure.

## II. PROJECT PURPOSE AND NEED (cont.)

### G. Capacity

Capacity of this roadway is only restricted by the vertical clearance on the railroad structure.

### H. Safety

Increased vertical railroad clearance will increase sight distance and improve safety.

### I. Roadway Deficiencies

The roadbed is at the optimal design for this area but the vertical clearance of the railroad bridge over the railroad is insufficient.

### Draft Purpose and Need Statement:

Need: Improve the vertical clearance of the CSX Railroad over KY 9

Purpose: Replace the railroad bridge with new structure that provides increased vertical clearance.

### III. PRELIMINARY ENVIRONMENTAL OVERVIEW

#### A. Air Quality

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

STIP Pg. #:  TIP Pg. #: 80

#### B. Archeology/Historic Resources

☐ Known Archeological or Historic Resources are present

#### C. Threatened and Endangered Species

#### D. Hazardous Materials

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

#### 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

#### 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

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

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

Anticipated Environmental Document:

CE for Minor Projects



#### IV. POSSIBLE ALTERNATIVES

##### A. Alternative 1: No Build

##### B. Alternative 2

Replace the two parallel railroad bridges with two new bridges that have shallower beams. The current structures each consist of two 7 foot tall girders. If the bridge were to be reconstructed with 4 girders each the beam height should be able to be cut in half.

[Insert Alt. Picture/Sketch here](#)

Planning Level Cost Estimate:

<u>Phase</u>	<u>Estimate</u>
Design	\$350,000
R/W	\$100,000
Utilities	\$275,000
Const	\$1,100,000
<b>Total</b>	<b>\$1,825,000</b>

#### IV. POSSIBLE ALTERNATIVES (cont.)

##### B. Alternative #3

Replace the existing 150 foot long bridge with 7 foot tall girders with a truss bridge.

[Insert Alt. Picture/Sketch here](#)

Planning Level Cost Estimate:

<u>Phase</u>	<u>Estimate</u>
Design	\$500,000
R/W	\$100,000
Utilities	\$275,000
Const	\$1,500,000
<b>Total</b>	<b>\$2,375,000</b>

##### V. Summary

Due to the close proximity of two railroad tracks, one over and one under KY 9, the vertical clearance of the railroad bridge over KY 9 can not be increased by lowering KY 9. To increase this vertical clearance the best solution is to replace the railroad bridge over KY 9 with a new structure that does not have 7 foot tall girders.

Alt #	Description	D (\$)(Fund)	R (\$)(Fund)	U (\$)(Fund)	C (\$)(Fund)	Total (\$mil)
1		-	-	-	-	-
2	New girders	350,000	100,000	275,000	1,100,000	1,825,000
3	New Truss	500,000	100,000	275,000	1,500,000	2,375,000
-	Current Hwy Plan Estimated Cost					
-	Current Pre-Con Estimated Cost					

## VI. Tables and Exhibits

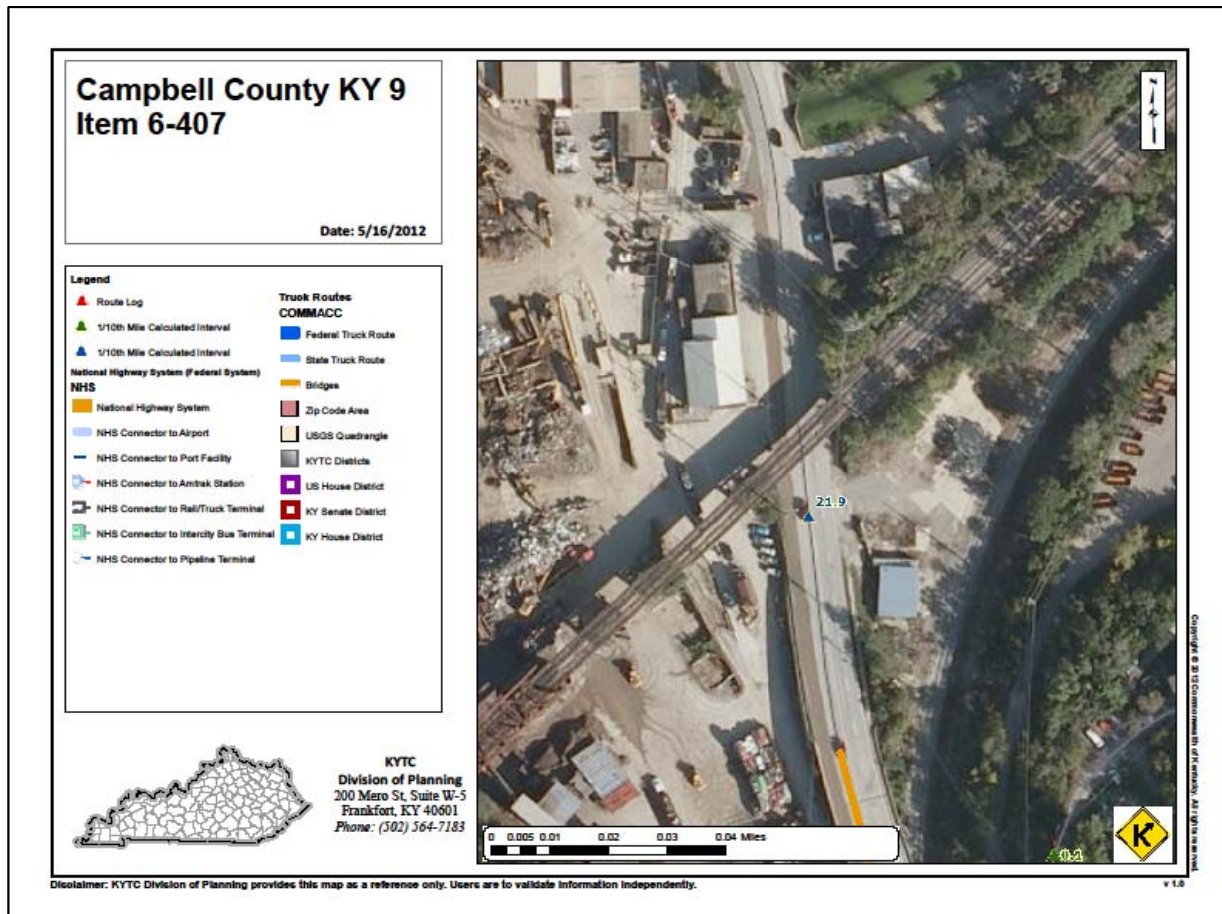


Figure 1: Project Location Map

### Helpful Links:

Links may include Projectwise folder(s) containing supportive documentation, links to archived as-builts of the corridor, threatened/endangered species list for the county, FIRM maps, Bridge Rating Sheets, etc.

1955 KY 9 Project can be found on ProjectWise:

[pj02759.pdf](#)





Figure 2: Railroad Bridge over KY 9, looking north



Figure 3: Railroad Bridge over KY 9, looking north





Figure 4: Looking under Railroad Bridge over KY 9



Figure 5: Railroad Bridge over KY 9, looking south



Figure 6: Railroad Bridge over KY 9, looking south



Figure 7: Looking north from the south end of the adjacent KY 9 Bridge over the Railroad