

KY 90 Scoping Study

From Sanders Street to Veterans Outer Loop
Barren County
KYTC Item No. 3-8819.00

Public Meeting

Tuesday, June 28, 2016
Cave City Convention Center



Discussion Items



- 1 Project Team**
- 2 Study Background**
- 3 Improvement Concepts**
- 4 Schedule & Next Steps**



Why we are here



- To share information about the KY 90 Scoping Study.
- To discuss improvement concepts that are under consideration.
- **Most importantly, to listen to your comments and concerns and to obtain your input.**

We need your input!

The Project Team

- Kentucky Transportation Cabinet
 - District 3, Bowling Green
 - Central Office Planning, Frankfort
- Barren River Area Development District (BRADD)
- Consultant
 - Stantec Consulting Services

We need your help!

Don't Forget To Complete Your Survey!

**COMMONWEALTH OF KENTUCKY
KENTUCKY TRANSPORTATION CABINET
DEPARTMENT OF HIGHWAYS
DISTRICT 3 (BROWLING GREEN)**

Public Meeting
KY 90 Scoping Study
From the Sanders Streets (MP 6.188) to US 68 (MP 6.874),
Barren County
Item No. 3-8819.00
Tuesday, June 28, 2016

The purpose of the KY 90 Improvement Project is to enhance regional mobility and to provide a safer, more efficient (conventional, adaptive, flexible and IAD). The project examines the need to and types of improvements necessary along KY 90 between the Sanders Street intersection in Casey City and the US 68/Highway One Lane intersection in Glasgow. The Kentucky Transportation Cabinet will use your input to help address the issues. Please return this survey during the meeting or return it by mail through KY90@kytc.gov.

Name: _____
Organization (if any): _____
Address: _____
E-mail (optional): _____

90

1. How often do you drive the study area portion of KY 90? Daily 2-3 times per week 2-3 times per month Rarely

2. Do you own or rent/lease property within the study area? Own Rent/Lease Neither

3. What issues exist along KY 90 that you feel should be addressed by this project? Please check all that apply and provide comments and/or specific locations below.

Safety Large Trucks Sharp Curves
 Too Much Traffic Slow Moving Vehicles Steep Grades
 Excessive Speeds No Sidewalks Narrow Shoulders
 Not Enough Passing Lanes No Bicycle Accommodations Other (explain)

4. Are you aware of any sensitive resources within the study area? Please explain. Yes No

Continued on back

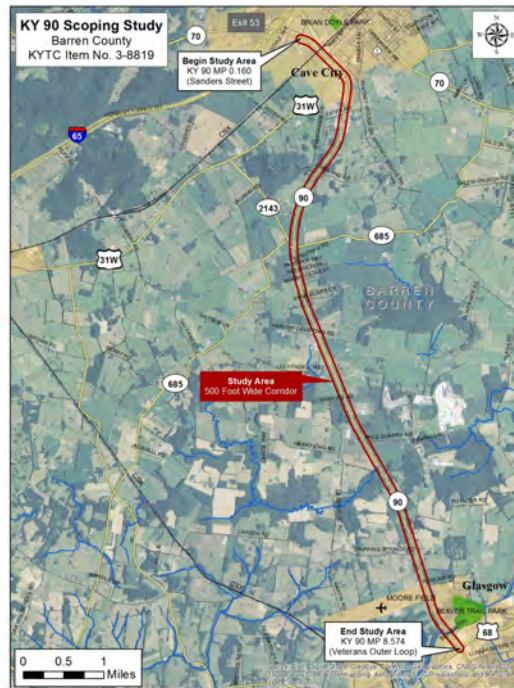
KY 90 Corridor – Barren County KYTC Item No. 3-8819.00

Project Phase	Cost	Funding Code	Fiscal Year
Design	\$2,200,000	Federal Surface Transportation Program Funds (STP)	2016
Right-of-Way	\$6,000,000	Federal Surface Transportation Program Funds (STP)	2017
Utility Relocation	\$3,500,000	Federal Surface Transportation Program Funds (STP)	2017
Construction	\$27,500,000	State Construction High Priority Project (SPP) Funds	2019

Source: Kentucky's Recommended 2016 Highway Plan

Study Area

- From Sanders Street in Cave City to US 68/Veterans Outer Loop in Glasgow
- 8.4 Miles Long
- 500 Foot Wide Corridor



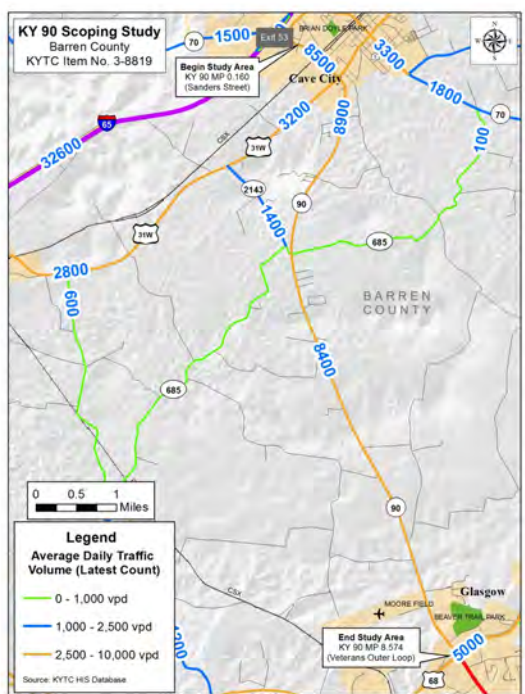
Draft Purpose and Need Statement

The purpose of the KY 90 Improvement Project is to enhance regional mobility and to provide a safer, more efficient connection between Glasgow and I-65.



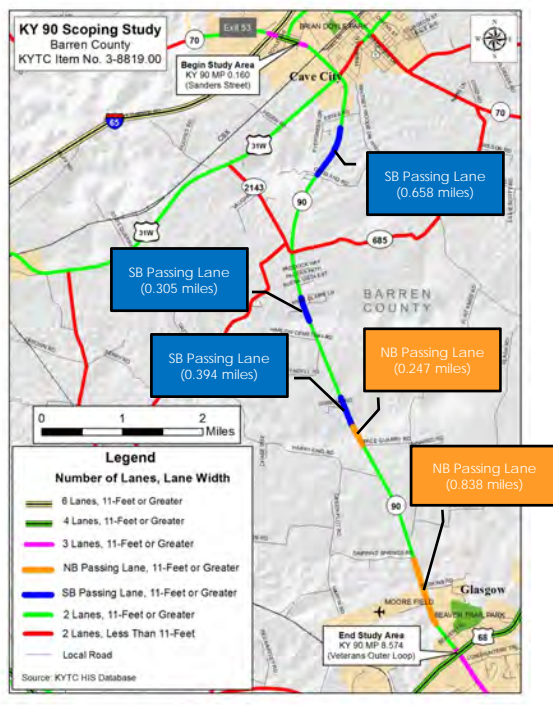
Traffic Analysis

- Average Daily Traffic (ADT) Volumes:**
 8,200 – 9,100 vehicles per day (vpd)
- A volume to capacity (V/C) analysis indicates a two-lane road can accommodate the existing and future traffic demand.



Five Passing Lanes (Two NB and Three SB)

- A review of the as-built plans found all the horizontal curves and all the vertical curves along KY 90 satisfy the design speed.
- The steepest grade along the study area is five percent.



Crash Analysis (2011-2015)

- 204 reported crashes
- 3 (1.5%) fatalities
- 47 (23%) injury crashes
- 154 property damage only (PDO) crashes (75.5%)



Improvement Concepts

- **No Build**
- **Spot Improvements**
 - Lower Cost Safety Improvements
 - Focus on High Crash Spots
- **Corridor Wide Improvements:**
 1. Section 1 (Cave City): Five-Lane C&G Typical Section with Sidewalks and Bike Lanes
 2. Section 2 (South of Cave City):
 - Alternative 1: 2+1 Typical Section
 - Alternative 2: Four-Lane Depressed Median Typical Section

Corridor Wide Improvements

Section 1:

Sanders Street (MP 0.160) to
Estes Road (MP 1.369)

Section 2:

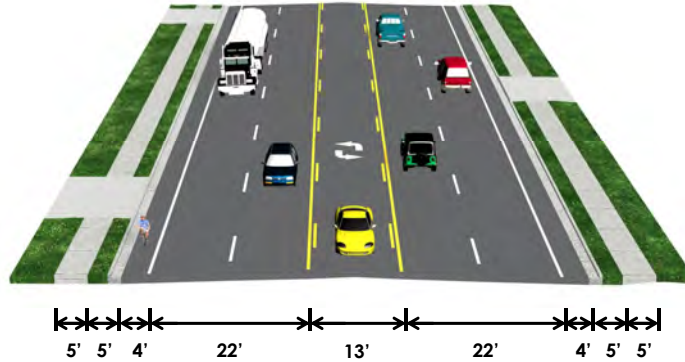
Estes Road (MP 1.369) to
US 68 (MP 8.574)



Existing Typical Section



Five-Lane Curb-and-Gutter Alternative with Bike Lanes and Sidewalks



Corridor Wide Improvement

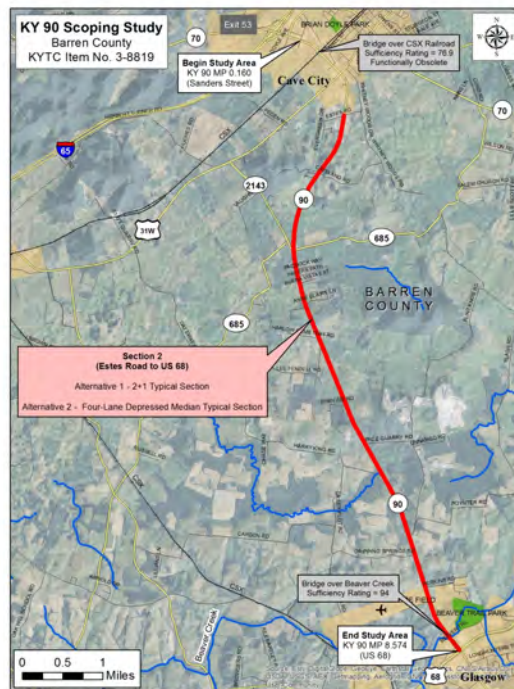
Section 2

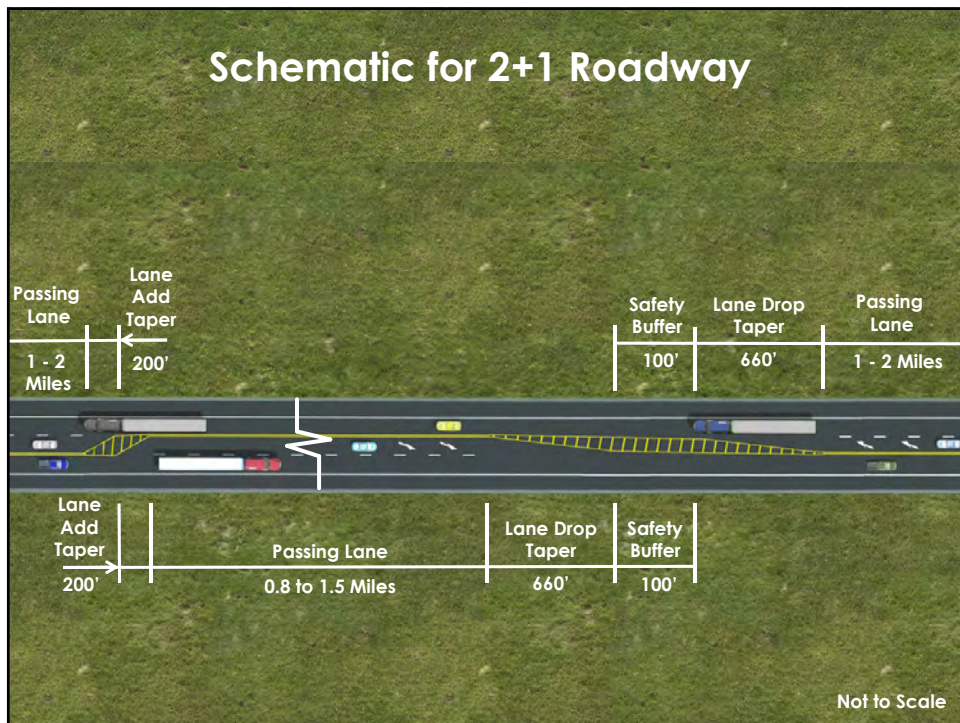
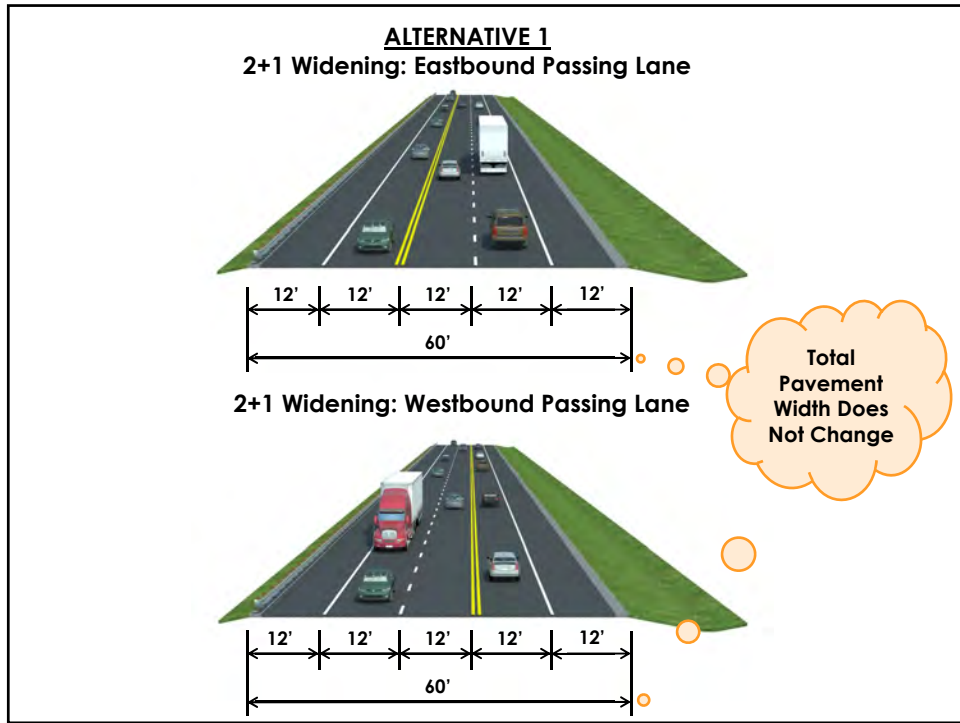
Alternative 1

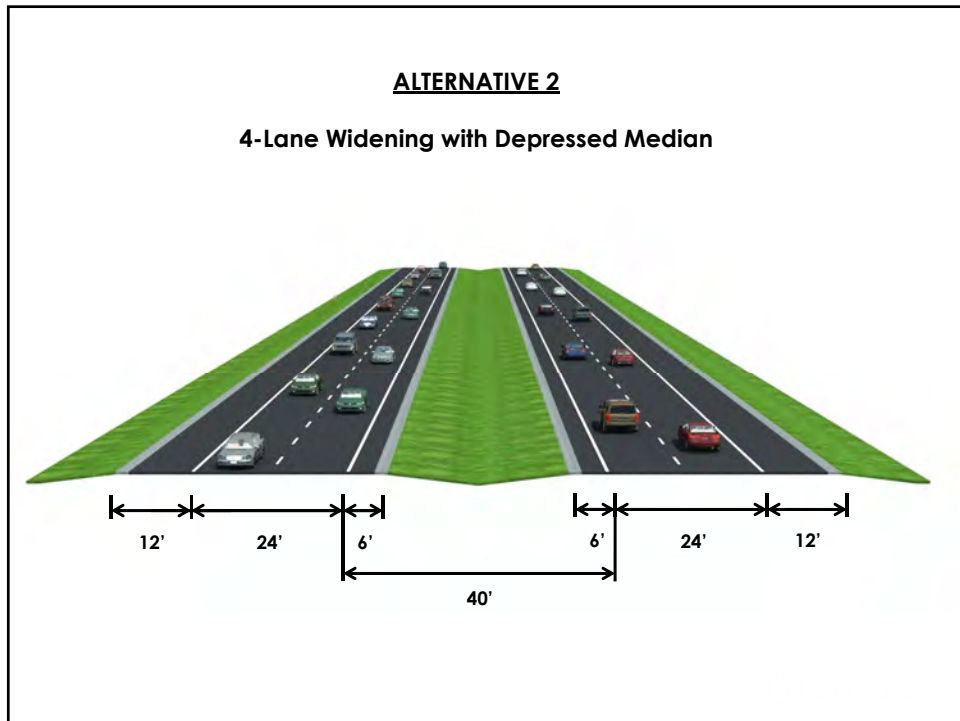
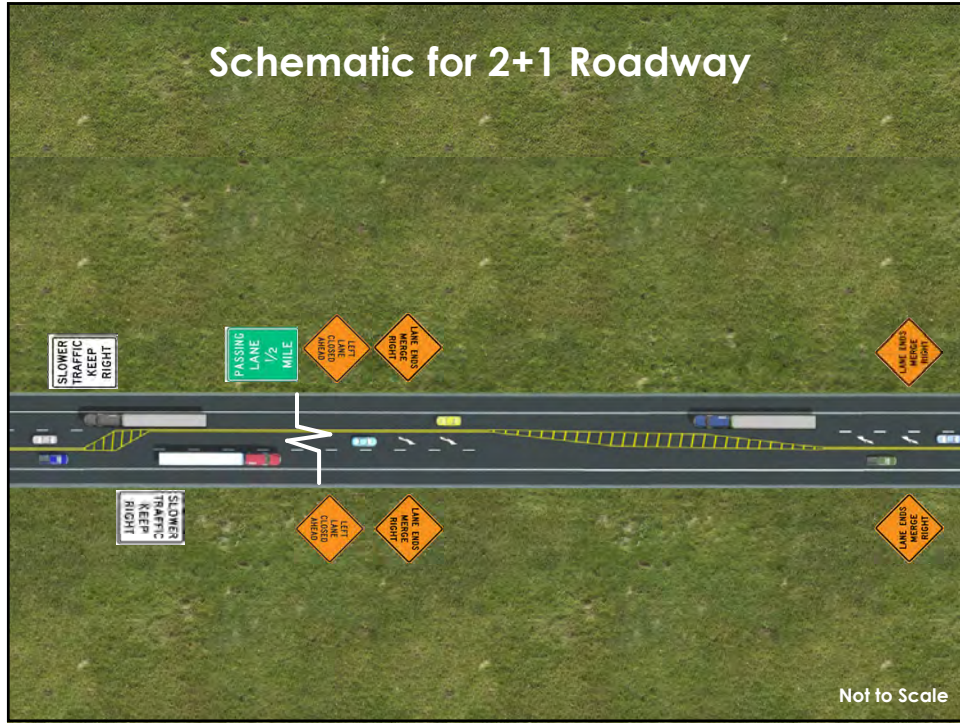
2+1 Typical Section

Alternative 2

Four-Lane Depressed Median
Typical Section









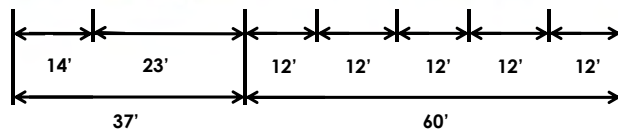
Cost Estimates

Alternative	2016 Cost Estimates (millions)			
	Design	Right-of-Way	Utility	Construction
No Build	\$0.0	TBD	TBD	\$0.0
Spot Improvements	\$0.8	TBD	TBD	\$7.8
Alternative 1 (2+1 Minor Widening)	\$2.0	TBD	TBD	\$20.5
Alternative 2 (Four-Lane Depressed Median)	\$4.1	TBD	TBD	\$40.9

The construction cost for Alternative 2 (the Four-Lane Depressed Median concept) is nearly \$41 million, double the cost of the 2+1 Alternative.

ALTERNATIVE 1b

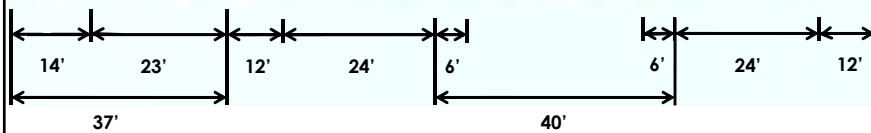
2+1 Widening with a Shared-Use Path



The addition of the shared-use path between Cave City and Glasgow would cost an additional \$5.1 million in construction cost.

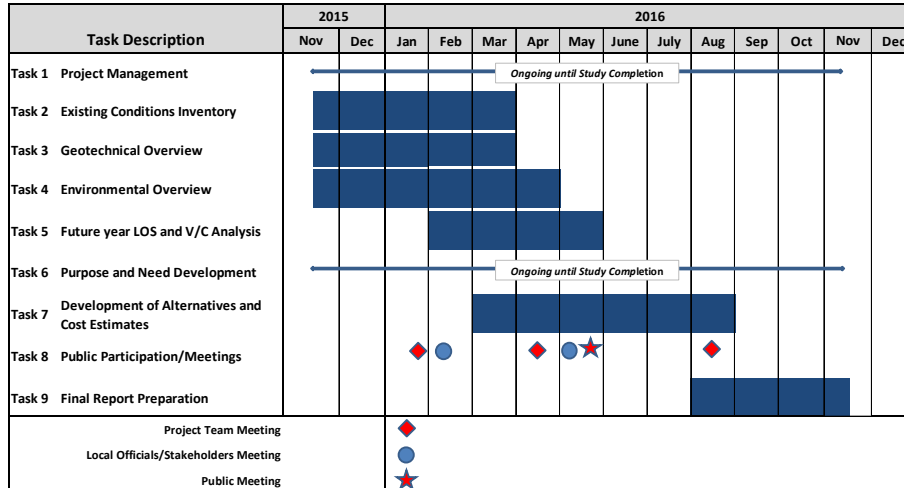
ALTERNATIVE 2b

4-Lane Widening with Depressed Median and Shared-Use Path



The addition of the shared-use path between Cave City and Glasgow would cost an additional \$6.8 million in construction cost.

Schedule



KY 90 Scoping Study



Thank you for attending!

We need your help!

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 COMMONWEALTH OF KENTUCKY KENTUCKY TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS DISTRICT 3 (BOWLING GREEN)			
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3. What issues exist along KY 90 that you feel should be addressed by this project? Please check all that apply and provide comments and/or specific locations below.			
<input type="checkbox"/> Safety <input type="checkbox"/> Too Much Traffic <input type="checkbox"/> Excessive Speeds <input type="checkbox"/> Not Enough Passing Lanes		<input type="checkbox"/> Large Trucks <input type="checkbox"/> Slow Moving Vehicles <input type="checkbox"/> No Sidewalks <input type="checkbox"/> No Bicycle Accommodations <input type="checkbox"/> Other (explain)	
<input type="checkbox"/> Sharp Curves <input type="checkbox"/> Steep Grades <input type="checkbox"/> Narrow Shoulders			
4. Are you aware of any sensitive resources within the study area? Please explain. <input type="checkbox"/> Yes <input type="checkbox"/> No			
_____ _____ _____			
<small>Continued on back</small>			

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