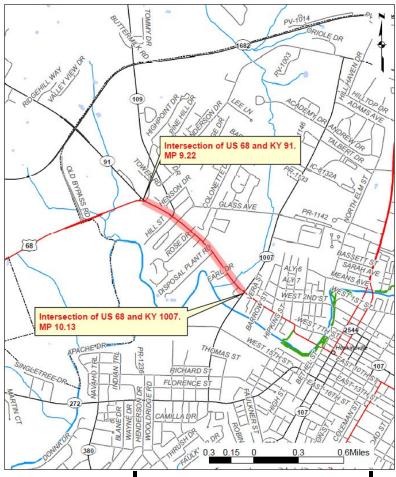
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 $N_{\rm eeds}$

Analysis





Scoping Study



Christian County US 68

Address congestion and mobility of US 68 from KY 91 to KY 1007 in Hopkinsville.

Item No. 2-899.00

Prepared by KYTC District 2 Planning September 2017





I. PRELIMINARY PROJECT INFORMATION							
County:	Christian		Item No.:		2-899.00		
Route Number(s):*	US 68		Road Name	Road Name:		W 7TH Street	
Program No.:	9334501D		UPN:	FD52	024	0068	09-011
Federal Project No.:	NHPP 0801 107		Type of Wo	ork:	Rec	onstruction/	Add Lanes
2016 Highway Pla	an Project Descr	iption:	_				
Address congestion and mobility of US 68 from KY 91 to KY 1007 in Hopkinsville.							
Beginning MP:	9.22		Ending MP:	10.13		Project Length	: 0.91
In TIP: Yes V No				Reconcile	- Project II	nformation in	Clearview
State Class.:	y Secondary			Route is on:	✓ NHS	□ NN □	Ext Wt
Functional Class.: 🗸	Urban Rural	Arterial	•	Truck Class.:	AAA	▼ % Trucks:	7.75
MPO Area: Not Applicab			—	Terrain:	Rolling		,
ADT (current):	9841	2017			Rolling		
Access Control:	None ✓ Perm	nit 🗆 i	Fully Controlled	☐ Partial	Spacing:		_
Median Type:	✓ Undivided		ided (Type):		Spacing.		•
Existing Bike Accommo		ared Lane	idea (13pe).	▼ Ped:	Side	walk	
Posted Speed:	35 mph	45 mph		55 mph		r (Specify):	35-45
KYTC Guidelines Prelim				MPH Proposed		· -	
			COMMON	GEOMETRIC			
Roadway Data:	EXISTIN	<u>G</u>	PRAC	CTICES**			
No. of Lanes	<u>2</u>			<u>2</u>	Exist	ing Rdwy. Plan	s available?
Lane Width	<u>10 to 11</u>	<u>1'</u>	<u>11' (inter</u>	rupted flow)	✓	Yes No	
Shoulder Width	<u>4 to 5'</u>	<u>-</u>	<u>curb gu</u>	<u>ıtter w/sw</u>		Year of Plans	: 1932
Max. Superelevation***				<u>6%</u>	✓	Traffic For	ecast Requested
Minimum Radius***			<u>643' (m</u>	<u>in 45 mph)</u>		Date Requested	: 8/29/2017
Maximum Grade	<u>.4 to 2.4</u>	<u>%</u>		<u>7%</u>		Mapping/Surv	ey Requested
Minimum Sight Dist.			<u> </u>	<u> 360'</u>		Date Requested	:
Sidewalk Width(urban)	<u>none</u>			<u>5'</u>		Type:	~
Clear-zone [†]				<u>46'</u>			
Project Notes/Design Exce	ptions?		Criteria bas	ed on arterial	urban cu	rb gutter w/sv	W
Bridge No.: [‡]	(Bridge #	<u> </u>	(Bri	dge #2)			
Sufficiency Rating							
Total Length					Existi	ng Geotech Dat	ta Available?
Width, curb to curb						✓ Yes	0
Span Lengths						103	
Year Built							
Posted Weight Limit					De	etour Length(s)	:
Structurally Deficient?							
Functionally Obsolete?							
Existing Bridge Type							
*If more than one road is incluc **Based on proposed Design Sp ***AASHTO's A Policy on Geom +AASHTO's Roadside Design Gu ‡If more than two bridges are lo	peed netric Design of Highwa ide	ays and Stree	ts				

II. PROJECT PURPOSE AND NEED

A. Legislation

This project was in the approved 2016 Highway plan.

Funding	Phase	Year	Amount
SPP	D	2019	\$1,200,000
SPP	R	2021	\$1,750,000
SPP	U	2021	\$1,500,000
SPP	С	2022	\$5,500,000

B. Project Status

This project was identified and added to the UPL in 2006 by the Pennyrile Area Development District as project # 02 024 B0068 8.20. Design funds in the amount of \$750,000 were authorized on August 4, 2017. The type of funding was NH funds.

C. System Linkage

This project will improve the connection between the US 68 bypass and KY 1007.

D. Modal Interrelationships

There are no railroad, riverports, or airports associated with this route. This route is a "AAA" truck route and had a truck percentage of 7.75 in 2013.

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E. Social Demands & Economic Development

Residents accessing schools, businesses and restaurants along or from the corridor.

II. PROJECT PURPOSE AND NEED (cont.) F. Transportation Demand A 2017 count shows an ADT of 9,841. The traffic appears to be decreasing over time. See traffic count history below. G. Capacity The ADT is approaching a volume appropriate for a multiple lane roadway. Lack of channelized access to businesses along corridors can contribute to mobility issues. This segment of roadway is accessed by an industrial site near the intersection of US 68 and KY 91, a retirement center located near its intersection with KY 1007 as well as multiple businesses including fueling stations and restaurants. H. Safety This .9 mile segment of arterial roadway has several driveways and intersects with 10 roadways connecting businesses and residential areas. This section has had 127 collisions resulting in 32 injuries over the last 3 years. Many of these result from unprotected left turning vehicles trying to access the driveways or intersections. I. Roadway Deficiencies The narrow two lane roadway along with lack of access management do not meet current geometric design standards for this urban principal arterial.

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III. PRELIMINARY ENVIRONMENTAL OVERVIEW				
A. Air Quality Project is in: Attainment area Nonattainment or Maintenance Area PM 2.5 County STIP Pg.#: FY 17-20, Mod#2016.075 TIP Pg.#:				
B. Archeology/Historic Resources Comparison of the control of the				
None known at this time. Historic resources may be related to NP Trail of Tears designation of the road				
C. Threatened and Endangered Species				
Trees related to NLEB, IB. No creek visible to affect Gray Bat				
D. Hazardous Materials Potentially Contaminated Sites are present Potential Bridge or Structure Demolition				
Unknown at this time. Copper still and Agricultural Oil building located along project				
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				
No water issues viewed at this time except for MS4 designated area				
F. Noise Are existing or planned noise sensitive receptors adjacent to the proposed project? Yes Vo Is this considered a "Type I Project" according to the KYTC Noise Analysis and Abatement Policy? Yes No None				
G. Socioeconomic				
Check all that may apply: Low Income/Minority Populations Relocations Local Land Use Plan available Low income housing located along project				
H. Section 4(f) or 6(f) Resources The following are present on the project: Section 4(f) Resources Section 6(f) Resources				
This is the primary issue with this project since this roadway is designated by National Park as Trail of Tears. There is likely to be no possibility of a de minimis, so other possibilities must be examined to possibly avoid mitigation fees. Net Benefits, pathways				
Anticipated Environmental Document: CE Level 1				

IV. PROJECT SCOPING, NEEDS & PURPOSE
A. Scoping & Need:
The narrow two lane roadway along with lack of access management do not meet current geometric design standards for this urban principal arterial. This section has had 127 collisions resulting in 32 injuries over the last 3 years. Many of these result from unprotected left turning vehicles trying to access the driveways or intersections.
B. Draft Project Purpose:
This project aims to improve mobility, safety, and roadway geometric deficiencies on US 68 from KY 91 to KY 1007 in Hopkinsville.

V. PROJECT ESTIMATE & METHODOLOGY			
Estimate Methodology:	Current Estimate		
Project phase estimates were based on a 5 lane rural roadway with 4 foot paved	<u>Phase</u>	<u>Estimate</u>	
shoulders. See PIF # 02 024 B0068 8.20.	Planning		
	Design	1,200,000	
	R/W	1,750,000	
	Utilities	1,500,000	
	Const	5,500,000	
	Total	9,950,000	
l			

Due to the urban development and use of this corridor, it may be worth considering an urban street section in the alternatives.

VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION

Company Name - PRECC

Contact - Gary Breaden

Address - 2000 Harrison Street; Hopkinsville, KY 42240

Phone No. - 270-886-2555

Company Name - AT&T

Contact - Michael Forrest

Address - 801 Richard Street; Hopkinsville, KY 42240

Phone No. - 270-889-9782

Company Name - HWEA

Contact - Mike Beck

Address - 401 East 9th Street; Hopkinsville, KY 42240

Phone No. - 270-887-4242

Company Name - Spectrum Cable

Contact - Tim Mracek

Address - 515 Double Springs Rd; Bowling Green, KY 42101

Phone No. - 270-392-1041

Company Name - Atmos Energy
Contact - Chase Downing

Address - 3275 Highland Pointe Road; Owensboro, KY 42303

Phone No. - 270-685-8128

Company Name - Hopkinsville Electric System

Contact - Jeff Hurd

Address - 1820 East 9th Street, Hopkinsville, KY 42240

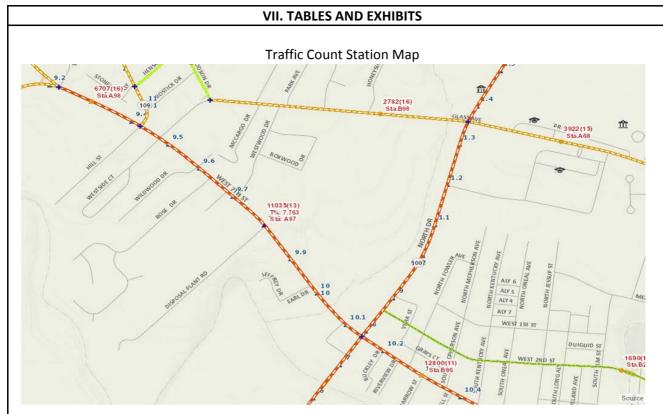
Phone No. - 270-887-4200

Company Name - Christian County Water District

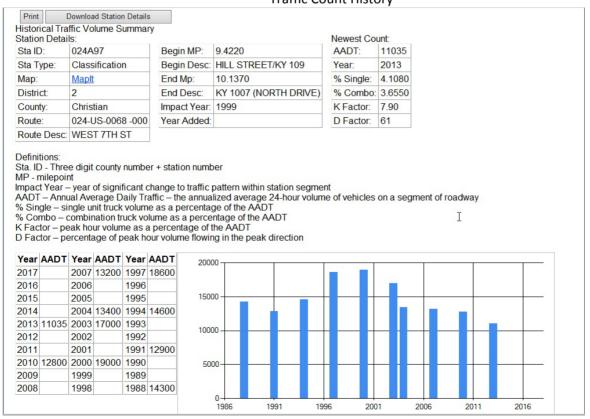
Contact - James Owen

Address - 1820 East 9th Street, Hopkinsville, KY 42240

Phone No. - 270-886-3696



Traffic Count Histor	Traffic	c Count	History
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VII. TABLES AND EXHIBITS (cont.)



