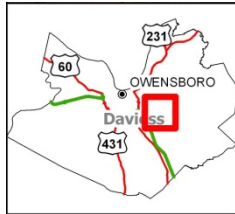


**D**ata

**N**eeds

**A**nalysis



## Scoping Study



US 62 Marshall County  
 From KY 95 to I 24  
 Calvert City  
 Item No. 1-398.00

Prepared by the KYTC  
 Division of Planning and  
 KYTC District 1

December 2020



**I. PRELIMINARY PROJECT INFORMATION**

<b>County:</b>	Marshall	<b>Item No.:</b>	1-398.00
<b>Route Number(s)*:</b>	US 62	<b>Road Name:</b>	US Highway 62
<b>Program No.:</b>	12370	<b>UPN:</b>	FD52 073 0062 007-008
<b>Federal Project No.:</b>		<b>Type of Work:</b>	Major Widening

(Year) **Highway Plan Project Description:**

Improve Access and reduce congestion on US 62 from KY 95 to Lone Valley Rd near I24 Interchange

<b>Beginning MP:</b>	7.2	<b>Ending MP:</b>	8.6	<b>Project Length:</b>	1.4
<b>In TIP:</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<a href="#">Reconcile Project Information in Clearview</a>			
<b>State Class.:</b>	<input type="checkbox"/> Primary <input checked="" type="checkbox"/> Secondary	<b>Route is on:</b>	<input type="checkbox"/> NHS <input type="checkbox"/> NN <input type="checkbox"/> Ext Wt		
<b>Functional Class.:</b>	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural Collector	<b>Truck Class.:</b>	AAA	<b>% Trucks:</b>	12.5%-17.4%
<b>MPO Area:</b>	Not Applicable	<b>Terrain:</b>	Level		
<b>ADT (current):</b>	<a href="#">6068-9062</a> 2018				
<b>Access Control:</b>	<input type="checkbox"/> None <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Fully Controlled <input type="checkbox"/> Partial	<b>Spacing:</b>			
<b>Median Type:</b>	<input checked="" type="checkbox"/> Undivided <input checked="" type="checkbox"/> Divided (Type):	Raised median in portions			
<b>Existing Bike Accommodations:</b>	Shared Lane	<b>Ped:</b>	<input type="checkbox"/> Sidewalk		
<b>Posted Speed:</b>	<input type="checkbox"/> 35 mph <input checked="" type="checkbox"/> 45 mph <input type="checkbox"/> 55 mph <input type="checkbox"/> Other (Specify):				
<b>KYTC Guidelines Preliminarily Based on :</b>	45 MPH Proposed Design Speed				

**COMMON GEOMETRIC**

Roadway Data:	EXISTING	PRACTICES**	
No. of Lanes	2-4	2-4	<a href="#">Existing Rdwy. Plans available?</a>
Lane Width	11'	11'	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Shoulder Width	8'	6'	Year of Plans: 1955
Max. Superelevation***	NA	8%	<input checked="" type="checkbox"/> <a href="#">Traffic Forecast Requested</a>
Minimum Radius***	NA	643'	Date Requested: 12/5/2020
Maximum Grade	4%	7%	<input checked="" type="checkbox"/> Mapping/Survey Requested
Minimum Sight Dist.	700'	360'	Date Requested: 12/5/2020
Sidewalk Width(urban)	NA	5'	Type: <input type="text"/>
Clear-zone <sup>†</sup>	40+'	28'-32'	
Project Notes/Design Exceptions?			NA

<b>Bridge No.†:</b>	(Bridge #1)	(Bridge #2)	
Sufficiency Rating			<a href="#">Existing Geotech Data Available?</a>
Total Length			<input type="checkbox"/> Yes <input type="checkbox"/> No
Width, curb to curb			
Span Lengths			
Year Built			
Posted Weight Limit			Detour Length(s): NA
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 project received funding in the 2020 Six Year Plan.

<i>Funding</i>	<i>Phase</i>	<i>Year</i>	<i>Amount</i>
FED	D	2021	\$750,000
FED	R	2022	\$250,000
FED	U	2022	\$500,00
FED	C	2023	\$3,940,00

**B. Project Status**

Design funds have been requested and the project is being advertised in January 2021.

**C. System Linkage**

This section of US 62 is classified as a major collector and links Calvert City and it industrial and tourism industries to I24/I69. This segment is the only portion between the I24/I69 interchnages that has not been upgraded to 4 lanes.

**D. Modal Interrelationships**

This route does not provide direct access to a multi modal facility such as a riverport, airport or rail facility. It does link with a existing pedestrian facility constructed by Calvert City. Calvert also has future plans to build additional pedestrian facilities that could impact this corridor.

**E. Social Demands & Economic Development**

The improved connections to I24 and I69 will help provide better commercial and tourist access to the Calvert City area.

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

**F. Transportation Demand**

The two most recent counts from CTS for this segment of US 62 are 6068 east of KY 1523 with 17.4% trucks and 9062 west of KY 1523 with 12.5% trucks. The section east of KY 1523 had a traffic count of 8943 in 2015. It is likely that the construction work on the I24 interchange and the adjacent section of US 62 east of the interchange has led to this temporary decrease in traffic. The segment west of KY 1523 was unaffected by this construction work and has shown a steady increase in volume over the past 10 years.

**G. Capacity**

There is congestion in the segment of the roadway that transitions to 2 lanes. There is commercial development along corridor as well as industrial and tourism activities served by this corridor. Improve of the 2 lane section would improve traffic flow through the corridor. Improvements at the signalized intersections with KY 95, KY 1523 and Kennedy Dr. will also reduce congestion.

**H. Safety**

Crash research revealed 37 accidents in the past 3 years. The majority of these were concentrated at the intersections with KY 95 and KY 1523.

**I. Roadway Deficiencies**

Portions of this corridor are 4 lane with 12' lanes and 6' shoulder. The segment east of KY 1523 is 2 lane with no center turn lane. There are a lot of access points along this corridor.

**III. PRELIMINARY ENVIRONMENTAL OVERVIEW**

**A. Air Quality**

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

STIP Pg.#: 261

TIP Pg.#:

2019 STIP pg 261

**B. Archeology/Historic Resources**

Known Archeological or Historic Resources are present

None seen. Area is heavily disturbed. Right of way was purchased for four lanes when highway was constructed. PA2s needed for clearance.

**C. Threatened and Endangered Species**

No habitat no effect expected.

**D. Hazardous Materials**

Potentially Contaminated Sites are present  Potential Bridge or Structure Demolition

One gas station present, with possible UST encroachments. Other businesses are adjacent to the alignment and need historical analysis at minimum.

**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 401/404 permits anticipated since only roadside ditches present. KPDES permit for 1 acre contiguous disturbance likely.

**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

Distance cannot be halved between existing businesses if utilizing existing right of way, which is anticipated.

**G. Socioeconomic**

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

None

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

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

None

Anticipated Environmental Document:

CE Level 1

**IV. PROJECT NEED, PURPOSE & SCOPE**

**A. Need:**

The US 62 corridor serves as a major collector that provides access to Calvert City and the surrounding area. This portion of northern Marshall County has both manufacturing and tourists assets that are served by this route. This section of US 62 is also linked by two interchanges of I24/I69. US 62 currently has an ADT of approximately 6,000, with a truck percentage of 17%. On the east end, this project ties into a project which brought a pedestrian path and other beautification measures to the section of US 62 from the interstate to KY Dam Village SRP. Calvert City also has plans to extend their pedestrian access along Lone Valley Rd. The corridor has issues with congestion, safety, and pedestrian access.

**B. Purpose:**

The purpose of the project is to improve mobility, safety and traffic flow. Another goal of the project would incorporate Calvert City's existing pedestrian plan into the corridor.

**C. Scope:**

The scope should include safety and capacity upgrades to the signalized intersections with KY 95 and KY 1523. The section between KY 1523 and Kennedy Dr should be evaluated for 3 and 5 lane options. The intersection with Lone Valley Rd/Kennedy Dr. should be evaluated for alternative intersection concepts. The project should also address compatibility with the pedestrian facilities previously constructed by Calvert City.

**V. PROJECT ESTIMATE & METHODOLOGY**

<b>Estimate Methodology:</b>	<b>Current Estimate</b>	
2020 Highway Plan estimates	<u>Phase</u>	<u>Estimate</u>
	Planning	
	Design	\$750,000
	R/W	\$250,000
	Utilities	\$500,00
	Const	\$3,940,00
	<b>Total</b>	

**VI. UTILITIES POTENTIALLY AFFECTED - CONTACT INFORMATION**

Company Name -	Calverty City Water
Contact -	Darrell Howell
Address -	96 Carroll Rd, Calvert City KY 42029
Phone No. -	270-703-0410
Company Name -	Calvert City Sewer
Contact -	Don Myrick
Address -	861 E 5th Ave, Calvert City KY 42029
Phone No. -	270-703-4320
Company Name -	West KY RECC
Contact -	Daniel Turner
Address -	PO Box 589, Mayfield KY, 42066
Phone No. -	270-970-1328
Company Name -	AT&T
Contact -	Alan Shelby
Address -	
Phone No. -	270-444-5048
Company Name -	Windstream Communications
Contact -	
Address -	4001 Rodney Parham Rd, Little Rock AR, 72212
Phone No. -	1-859-321-2213
Company Name -	Mediacom
Contact -	
Address -	90 Main St, Benton KY 42025
Phone No. -	270-703-0482

Historical Traffic Volume Summary

Station Details:

Sta ID:	079C06
Sta Type:	Full Coverage
Map:	<a href="#">MapIt</a>
District:	1
County:	Marshall
Route:	079-US-0062 -000
Route Desc:	US HIGHWAY 62

Begin MP:	7.20
Begin Desc:	KY 95
End Mp:	7.6180
End Desc:	KY-1523
Impact Year:	
Year Added:	

Newest Count:

AADT:	9062
Year:	2019
% Single:	8.2880
% Combo:	4.3360
K Factor:	10.10
D Factor:	58

Definitions:

Sta. ID - Three digit county number + station number

MP - milepoint

Impact Year – year of significant change to traffic pattern within station segment

AADT – Annual Average Daily Traffic – the annualized average 24-hour volume of vehicles on a segment of roadway

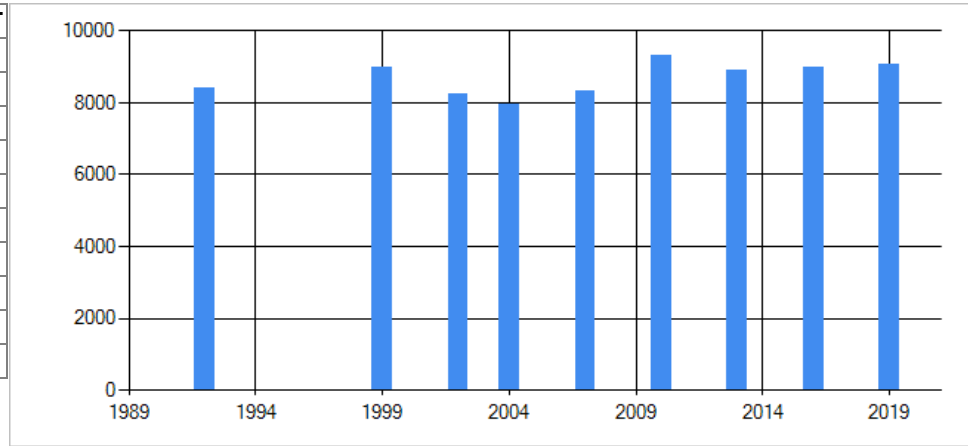
% Single – single unit truck volume as a percentage of the AADT

% Combo – combination truck volume as a percentage of the AADT

K Factor – peak hour volume as a percentage of the AADT

D Factor – percentage of peak hour volume flowing in the peak direction

Year	AADT	Year	AADT	Year	AADT
2020		2010	9300	2000	
2019	9062	2009		1999	9000
2018		2008		1998	
2017		2007	8330	1997	
2016	8969	2006		1996	
2015		2005		1995	
2014		2004	7960	1994	
2013	8887	2003		1993	
2012		2002	8260	1992	8430
2011		2001		1991	



Historical Traffic Volume Summary

Station Details:

Sta ID:	079042
Sta Type:	Classification
Map:	<a href="#">MapIt</a>
District:	1
County:	Marshall
Route:	079-US-0062 -000
Route Desc:	US HIGHWAY 62

Begin MP:	7.6180
Begin Desc:	KY 1523
End Mp:	8.8160
End Desc:	I 24 INTERCHANGE
Impact Year:	
Year Added:	

Newest Count:

AADT:	6068
Year:	2018
% Single:	9.4970
% Combo:	7.9130
K Factor:	8.20
D Factor:	60

Definitions:

Sta. ID - Three digit county number + station number

MP - milepoint

Impact Year – year of significant change to traffic pattern within station segment

AADT – Annual Average Daily Traffic – the annualized average 24-hour volume of vehicles on a segment of roadway

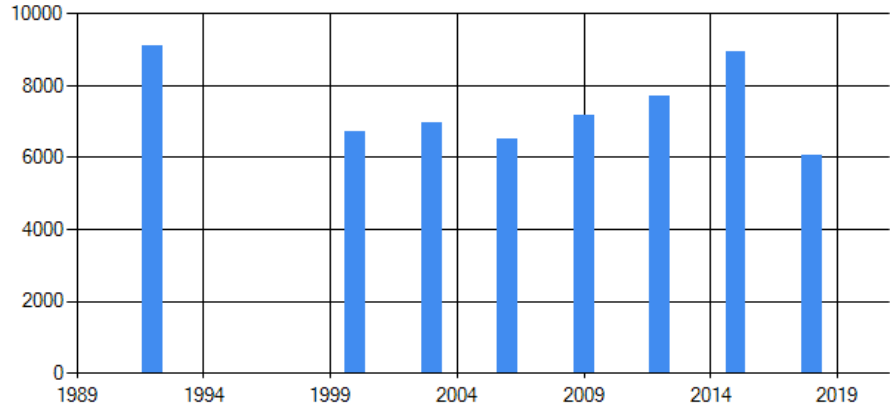
% Single – single unit truck volume as a percentage of the AADT

% Combo – combination truck volume as a percentage of the AADT

K Factor – peak hour volume as a percentage of the AADT

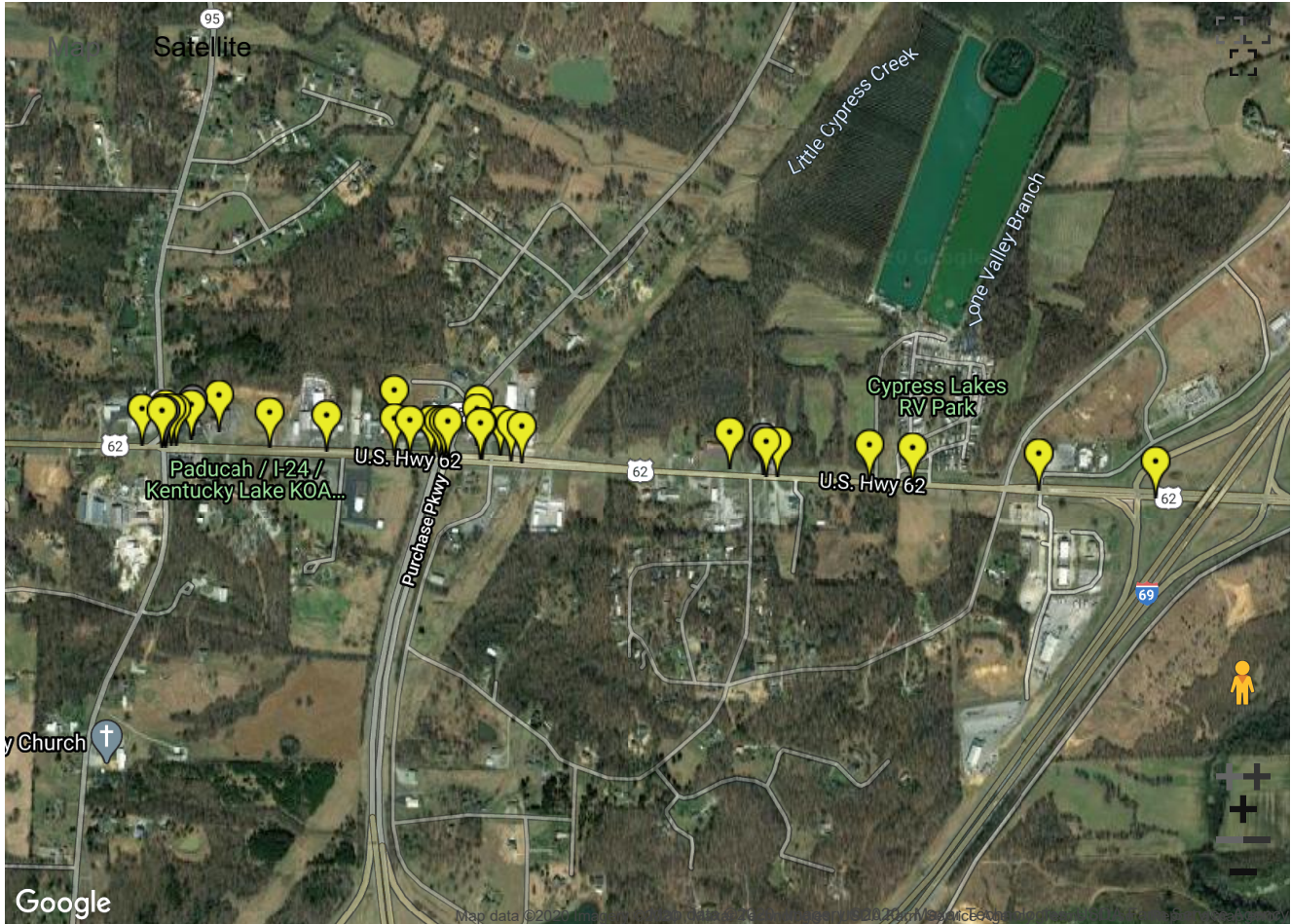
D Factor – percentage of peak hour volume flowing in the peak direction

Year	AADT	Year	AADT	Year	AADT
2020		2010		2000	6730
2019		2009	7190	1999	
2018	6068	2008		1998	
2017		2007		1997	
2016		2006	6500	1996	
2015	8943	2005		1995	
2014		2004		1994	
2013		2003	6960	1993	
2012	7711	2002		1992	9110
2011		2001		1991	



# Map

12/16/2020 1:51 PM



## Collision Categories:

Click Pin to Filter

Injured (3)  Property Damage (34)  All 