

**Informational Workshop Public Meeting  
McDonalds/Upper Plaza Bridges Project  
Moundsville  
Marshall County, WV**

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**West Virginia Department of Transportation  
Division of Highways**

**State Project S326-2-19.50  
Federal Project BR-0002(415)D**



**John Marshall High School  
1300 Wheeling Avenue  
Glen Dale, WV**

**Monday, October 20, 2014  
4:00pm to 7:00pm**

**McDONALDS/UPPER PLAZA BRIDGES  
STATE PROJECT S326-2-19.50  
FEDERAL PROJECT BR-0002(415)D**

**WORKSHOP PURPOSE**

The purpose of this Informational Workshop Public Meeting is to provide information on the proposed McDonalds/Upper Plaza Bridges Project, and how you can provide your comments. The workshop is intended to be informal to maximize the interaction between the citizens and project team.

We encourage you to examine the project maps and displays, discuss the project with the members of our project team who are here today, and complete the enclosed comment sheet.

**WORKSHOP FORMAT**

The WVDOH procedures for public workshops are established to ensure meaningful citizen input in the development for proposed projects, in compliance with all applicable regulations and requirements. This informational workshop public meeting is from 4:00pm to 7:00pm and there will be **NO FORMAL PRESENTATION**.

**Registration**

If you have not already printed your name and address on the registration sheet, please remember to do so before you leave. Additional copies of this handout and the comment sheet are available at the registration table. The WVDOH welcomes your comments on the project; therefore, please feel free to write comments as you visit other displays around the room. You can drop the completed sheet in the Comment Box; return it to any WVDOH representative at the meeting, or mail it to the WVDOH at the address below or on the WVDOH Website at <http://go.wv.gov/dotcomment>, under Engineering Projects/McDonalds/Upper Plaza.

**Environmental Studies**

Representatives from the WVDOH are here today to discuss the environmental study process. Maps depicting the proposed project location are available for viewing. This meeting complies with the public involvement

requirements of the National Environmental Policy Act (NEPA) and Section 106 of the National Preservation Act.

## Engineering

Representatives from the WVDOH and its consultant AECOM are available to discuss the location and preliminary design of the project area. These representatives also have information regarding the area studied for the project.

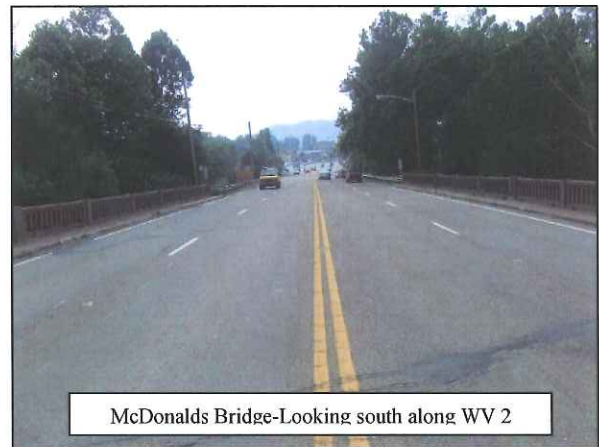
## Right-of-Way

WVDOH Right-of-Way representatives are available to answer your questions regarding any right-of-way acquisitions.

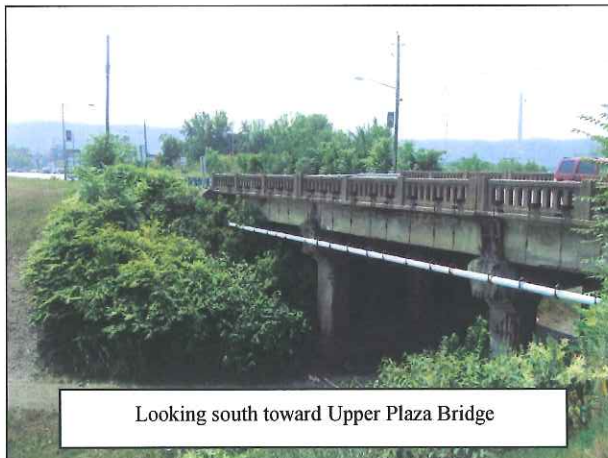
### PROJECT DESCRIPTION

The project consists of approximately 0.95 mile of widening WV 2 with a center turn lane beginning just north of Fifth Street and ending approximately 700 feet north of the US 250 intersection. The intersection at US 250 and WV 2 will be upgraded, along with the replacement of the McDonalds and the Upper Plaza Bridges.

WV 2 is functionally classified as a principal arterial – urban with a 2014 average daily traffic (ADT) of 20,750 vehicles per day (VPD) and a 20 year (2036) projected ADT of 25,772 VPD. The posted speed limit on WV 2 is 40 miles per hour (mph). Traffic consists of all types of vehicles, including trucks, school buses and mail carriers.



McDonalds Bridge-Looking south along WV 2



Looking south toward Upper Plaza Bridge

The existing McDonalds and Upper Plaza Bridges were built in 1943 by prison labor. Both structures consist of three-span simple concrete deck girders, and are supported by reinforced concrete abutments on spread footings and intermediately by solid reinforced concrete piers. Overall length on the McDonalds Bridge is 162 feet and overall

length on the Upper Plaza Bridge is 114'10" feet.

**Rehabilitation alternatives were examined for both bridges.**

- **McDonalds Bridge - Total cost is \$2,600,000.**
- **Upper Plaza Bridge - Total cost is \$2,300,000.**

**Three alternatives and a no-build option** were studied for the **Widening of WV 2 and the bridge replacements**. All three alternatives will utilize the same baseline with a total proposed pavement width of 65 feet. A typical section of a 4 foot paved shoulder, two 11 foot southbound lanes, 14 foot center lane turn lane, two 11 foot northbound lanes, 3 foot curb and gutter, and 5 foot sidewalk is recommended. Each of the three alternatives will impact: three existing traffic signals, existing roadway lighting, commercial businesses (signage, entrances, and parking), and utilities (water, sanitary sewer, and utility poles) within the project limits.

- **Preferred Alternative #1** - Alternative #1 proposes to primarily widen the roadway toward the east side of WV 2, and add approximately 15 feet of new pavement adjacent to the outside edge of the existing northbound travel lane. Minor roadway widening and construction of a paved shoulder will also be necessary adjacent to the existing southbound travel lane. The proposed replacement of the McDonalds Bridge structure is approximately 177 feet in length and the roadway widening will require 982 feet of exposed face of retaining wall construction to the east of WV 2. **Total Alternative #1 cost is \$11,679,000.**

- **Alternative #2** – Alternative #2 proposes to primarily widen the roadway toward the west side of WV 2. This alternative will consist of adding approximately 16 feet of new pavement adjacent to the outside edge of the existing southbound travel lane. Minor roadway widening and construction of a curb and gutter sidewalk will also be necessary on the east side too. The proposed replacement of the McDonalds Bridge structure is approximately 177 feet in length and the roadway widening will require approximately 658 feet of exposed face of retaining wall construction to the west of WV 2 and approximately 408 feet of construction to the east of WV 2. **Total Alternative #2 cost is \$10,619,000.**

- **Alternative #3** – Alternative #3 proposes to widen the road on both sides of WV 2. This alternative will consist of adding approximately 8 feet of new pavement on the eastern side and 10 feet on the western side. The proposed replacement of the McDonalds Bridge structure is approximately 177 feet in length and the roadway widening will require approximately 982 feet of exposed face of

retaining wall construction to the east of WV 2. **Total Alternative #3 cost is \$10,361,000.**

- **No-Build Option** Due to the deteriorating conditions of the existing structures, the no-build option will eventually result in the closure of the bridges to traffic resulting in a 2.5 mile detour via County Route 250/88, US 250, and WV 2. The detour will be burdensome for commercial and industrial traffic, school buses, area residents, and tourists. Due to these limitations the no-build is not a prudent option.

**Three alternatives and a no-build option** were studied for the **WV 2/US 250 Intersection Alternatives.**

- **Intersection Alternative A** - Alternative A reconfigures the intersection so that US 250 intersects WV 2 approximately 300 feet further south. Approximately 740 feet of approach work on an 8 percent grade will be needed along US 250. **Total Alternative A cost is \$2,544,000.**

- **Preferred Intersection Alternative B** - Alternative B will keep the intersection location in the same area, but realign US 250 so that the angle of intersection is perpendicular with WV 2. Approximately 800 feet of approach work on a 7 percent grade will be needed along US 250. **Total Alternative B cost is \$2,611,000.**

- **Intersection Alternative C** - Alternative C reconfigures the intersection so that US 250 intersects WV 2 approximately 850 feet further south. US 250 turns westward towards WV 2 at the existing Walmart Drive entrance and continues west to intersect WV 2 at the Moundsville Pharmacy. Walmart Drive is realigned to intersect US 250 perpendicularly and then extends through to provide access to commercial properties on the opposite side of US 250. The realignment creates a four-way intersection between US 250 and Walmart Drive. Approximately 925 feet of approach work on a 6.5 percent grade is needed for a new US 250. **Total Alternative C cost is \$3,036,000.**

- **No-Build Option** this option will maintain the area as it is today and make no substantial improvements.

## CURRENT PROJECT SCHEDULE

**Public Information Workshop.....October 20, 2014**

**Public Meeting Comments Due By.....November 20, 2014**

**\*Current Environmental Clearance/FHWA NEPA Document  
Approval.....Fall 2015**

**\*Expected Construction Start Date.....Spring 2016**

**\*Dates are subject to change**

## COMMENTS

**Please send written comments on or before Thursday, November 20, 2014 to:**

**Mr. R.J. Scites, P.E., Director, Engineering Division  
West Virginia Division of Highways  
Capital Complex Building Five, Room 317  
1900 Kanawha Boulevard East  
Charleston, West Virginia 25305-0430**

**Project Information and Comment Sheets can be found online at our web page:**

**<http://go.wv.gov/dotcomment>**

**Click on “Comment on Engineering Project”, then “Open”,  
And then click on “McDonalds/Upper Plaza”.**

**DRAFT**

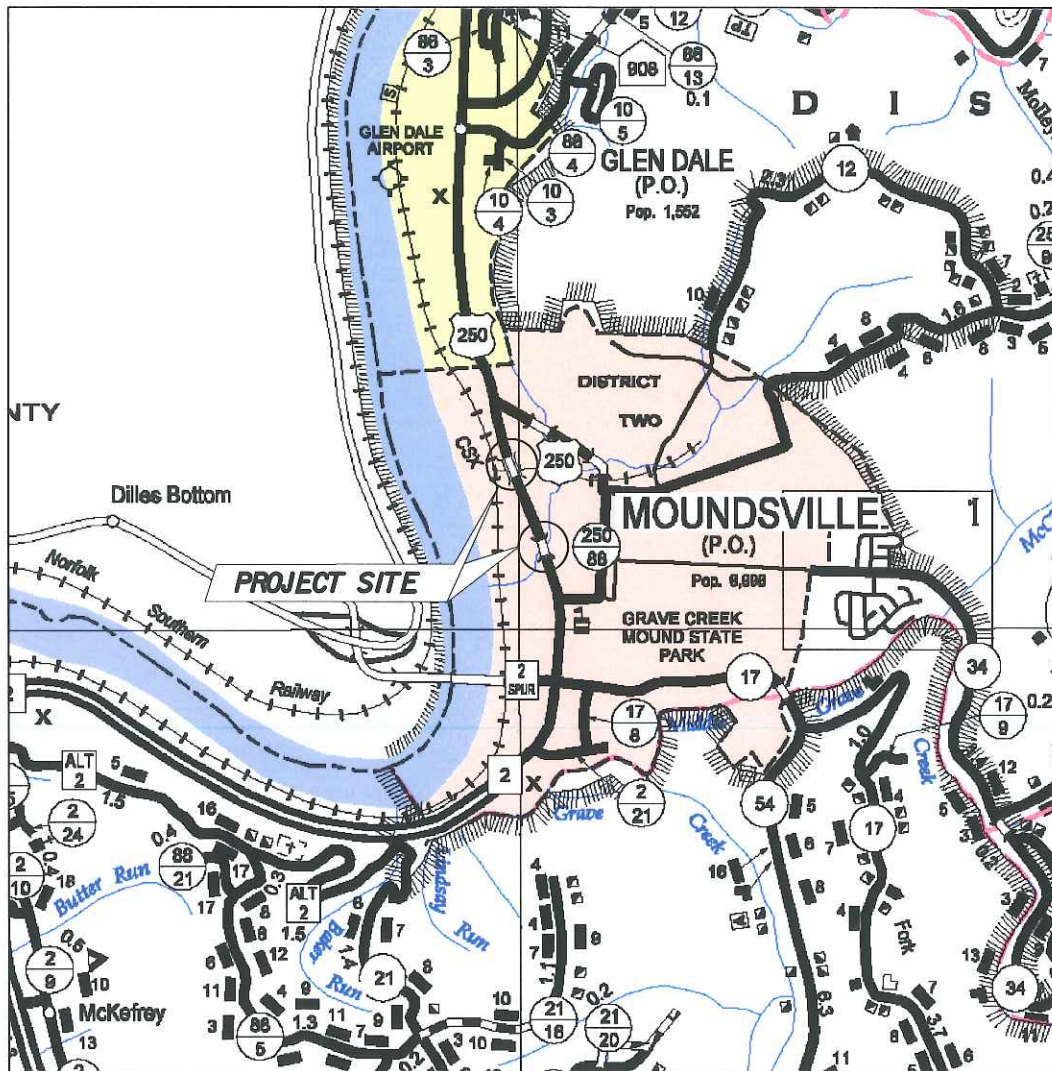
# BRIDGE REPLACEMENT STUDY

McDONALDS and UPPER PLAZA BRIDGES

STATE PROJECT NO. S226-2-19.50

FEDERAL PROJECT NO. NH-0002(504)D

MARSHALL COUNTY



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

ENGINEERING DIVISION

FEBRUARY 2013

**EVALUATION MATRIX**

Item	West Virginia 2 Improvements		
	Alternative 1 Widening to the East	Alternative 2 Widening to the West	Alternative 3 Widening to Both East and West
Meets Project Needs?	Yes	Yes	Yes
<b>Geometric Features</b>			
Bridge Length (ft)	177	177	177
Total Retaining Wall Area (ft <sup>2</sup> )	9,100	3,700	4,100
Roadway Length (ft)	5,000	5,000	5,000
Min. Horizontal Radius (ft)	900	900	900
Max Vertical Grade	1.05%	1.05%	1.05%
<b>Right-of-Way Impacts</b>			
Number of Parcels Impacted	14	9	11
Commercial Displacements	0	0	0
Number of Billboards Impacted	1	1	1
Commercial parking lots affected (inside of r/w)	2	4	3
Commercial parking lots affected (outside of r/w)	6	2	4
<b>Potential Utility Impacts</b>			
Utility Pole Relocations	64	76	74
Utility Pole Relocations (outside of r/w)	9	8	8
Fire Hydrant Relocations	7	6	6
Fire Hydrant Relocations (outside of r/w)	1	0	0
Sanitary Sewer Manhole Relocations	16	18	18
Sanitary Sewer Manhole Relocations (outside of r/w)	1	3	3
Water Meter/Valves affected	23	20	22
Gas Meter/Valves affected	4	3	4
Underground Utility Line Relocations - Water, Gas, Power and Sanitary Sewer (ft)	6,043	6,820	6,725
Underground Utility Line Relocations - Water, Gas, Power and Sanitary Sewer (ft) (outside of r/w)	635	815	900
<b>Level of Service</b>			
Intersection Level of Service - Opening Year 2016	N/A	N/A	N/A
Intersection Level of Service - Design Year 2036	N/A	N/A	N/A
<b>Preliminary Cost Estimate</b>			
2014 Construction Cost	\$ 9,885,000	\$ 9,323,000	\$ 9,239,000
Future Value (2016)	\$ 10,899,000	\$ 10,279,000	\$ 10,186,000
Utilities cost**	\$ 10,000	\$ 60,000	\$ 30,000
Right-of-Way cost***	\$ 770,000	\$ 280,000	\$ 145,000
Total	\$ 11,679,000	\$ 10,619,000	\$ 10,361,000

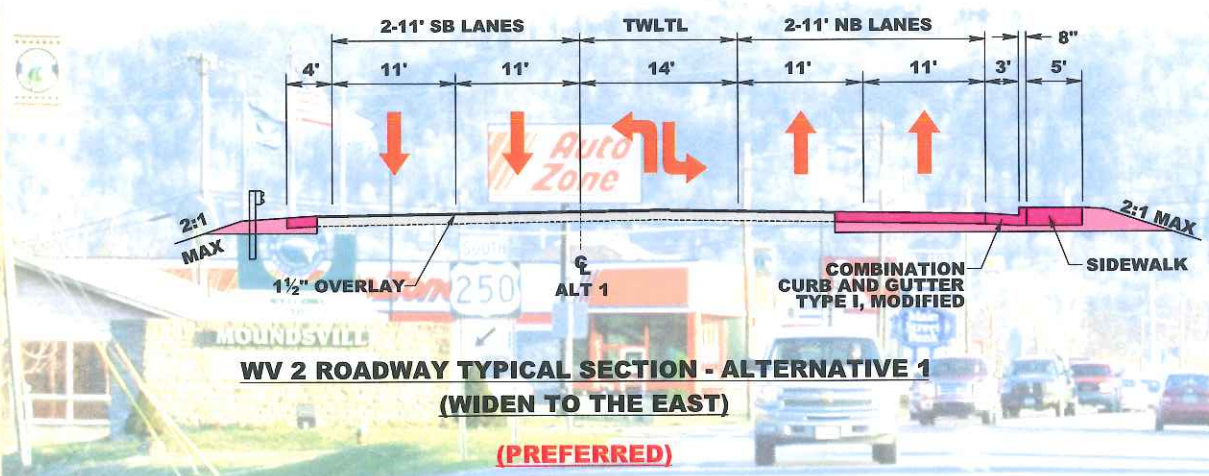


**FEDERAL PROJECT BR-0002(415)D  
STATE PROJECT S326-2-19.50 00  
McDONALDS/UPPER PLAZA  
MARSHALL COUNTY  
WEST VIRGINIA**

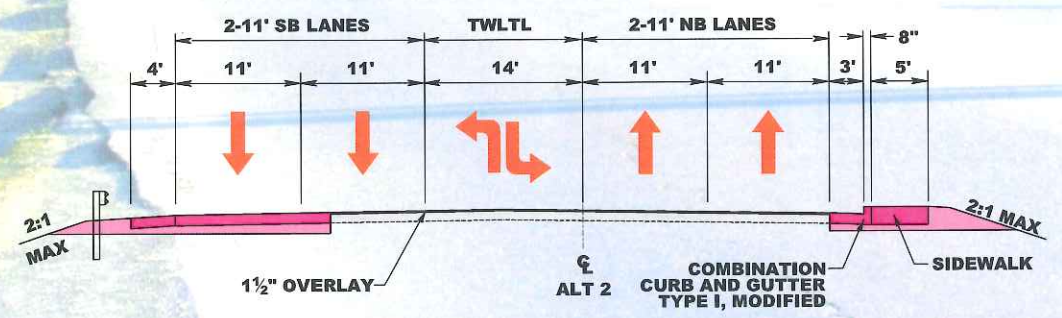
**WV 2  
ALTERNATIVE 1 - PREFERRED**



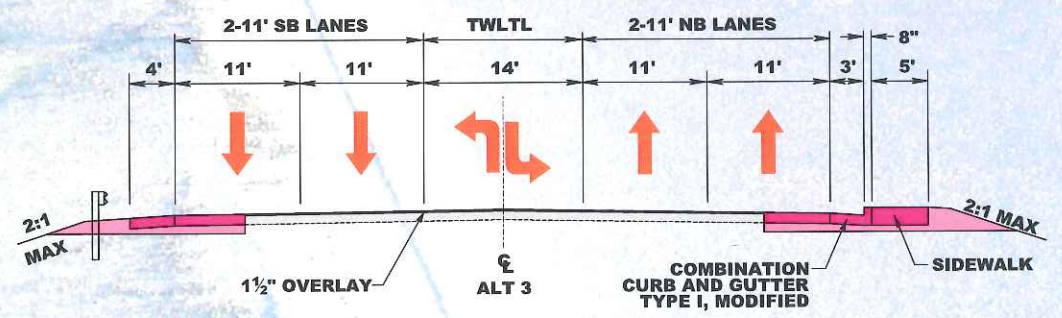




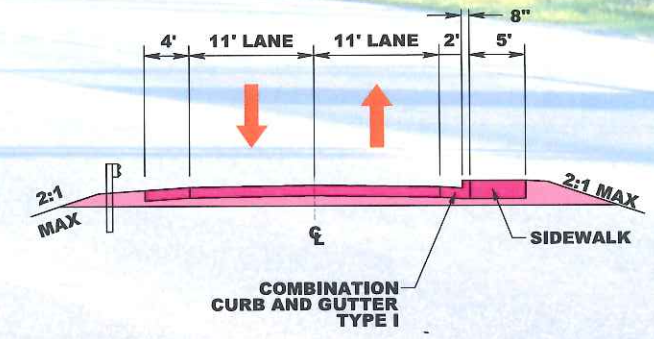
**WV 2 ROADWAY TYPICAL SECTION - ALTERNATIVE 1**  
**(WIDEN TO THE EAST)**  
**(PREFERRED)**



**WV 2 ROADWAY TYPICAL SECTION - ALTERNATIVE 2**  
**(WIDEN TO THE WEST)**



**WV 2 ROADWAY TYPICAL SECTION - ALTERNATIVE 3**  
**(WIDEN BOTH SIDES)**



**US 250 ROADWAY TYPICAL SECTION**  
**ALTERNATIVES A, B, & C**

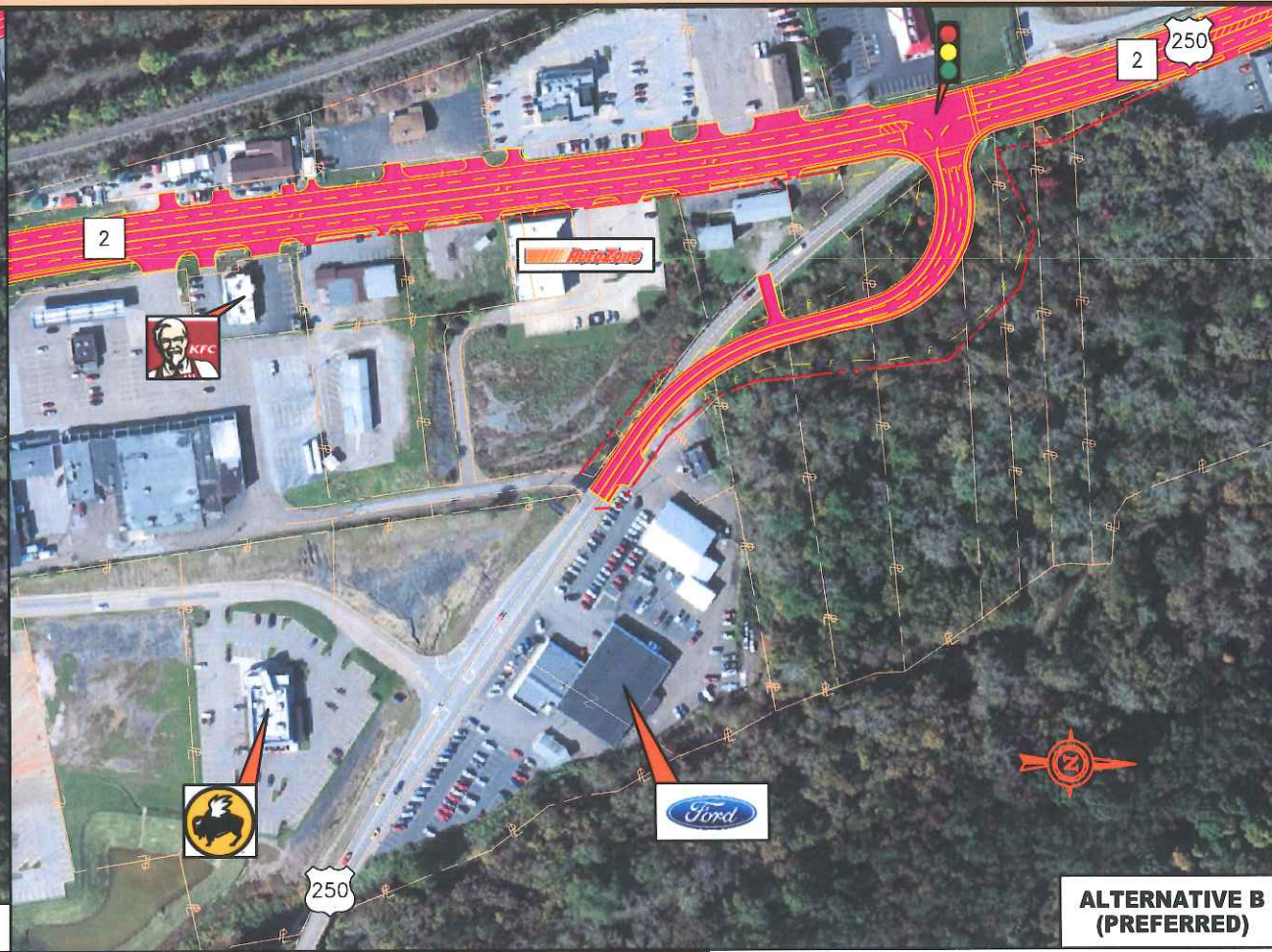
**FEDERAL PROJECT BR-0002(415)D**  
**STATE PROJECT S326-2-19.50 00**  
**McDONALDS/UPPER PLAZA**  
**MARSHALL COUNTY**  
**WEST VIRGINIA**

**WV 2 / US 250**  
**TYPICAL SECTIONS**





**ALTERNATIVE A**



**ALTERNATIVE B  
(PREFERRED)**



**ALTERNATIVE C**

**EVALUATION MATRIX**

Item	US250/WV 2 Intersection Improvements		
	Alternative A Intersection Upgrade 300' South	Alternative B Intersection Upgrade at Same Location	Alternative C Intersection Upgrade 850' South
Meets Project Needs?	Yes	Yes	Yes
<b>Geometric Features</b>			
Bridge Length (ft)	NA	NA	NA
Total Retaining Wall Area (ft <sup>2</sup> )	NA	NA	NA
Roadway Length (ft)	740	600	925
Min. Horizontal Radius (ft)	154	154	400
Max Vertical Grade	9.00%	7.00%	6.50%
<b>Right-of-Way Impacts</b>			
Number of Parcels Impacted	10	6	6
Commercial Displacements	2	0	1
Number of Billboards Impacted	1	1	0
Commercial parking lots affected (inside of r/w)	0	0	0
Commercial parking lots affected (outside of r/w)	3	2	2
<b>Potential Utility Impacts</b>			
Utility Pole Relocations	14	5	4
Utility Pole Relocations (outside of r/w)	13	4	4
Fire Hydrant Relocations	1	1	0
Fire Hydrant Relocations (outside of r/w)	1	1	0
Sanitary Sewer Manhole Relocations	0	0	0
Sanitary Sewer Manhole Relocations (outside of r/w)	0	0	0
Water Meter/Valves affected	1	0	0
Gas Meter/Valves affected	2	1	0
Underground Utility Line Relocations - Water, Gas, Power and Sanitary Sewer (ft)	905	635	0
Underground Utility Line Relocations - Water, Gas, Power and Sanitary Sewer (ft) (outside of r/w)	905	550	0
<b>Level of Service</b>			
Intersection Level of Service - Opening Year 2016	B* (AM Peak) B (Midday Peak) E (PM Peak)	B (AM Peak) B (Midday Peak) B (PM Peak)	B* (AM Peak) B (Midday Peak) C (PM Peak)
Intersection Level of Service - Design Year 2036	B* (AM Peak) B (Midday Peak) C (PM Peak)	B (AM Peak) B (Midday Peak) B (PM Peak)	B* (AM Peak) B (Midday Peak) C (PM Peak)
<b>Preliminary Cost Estimate</b>			
2014 Constructor Cost	\$ 1,698,000	\$ 2,059,000	\$ 1,760,000
Future Value (2016)	\$ 1,839,000	\$ 2,271,000	\$ 1,941,000
Utilities cost**	\$ 90,000	\$ 50,000	\$ 95,000
Right-of-Way cost***	\$ 615,000	\$ 230,000	\$ 1,000,000
Total	\$ 2,544,000	\$ 2,611,000	\$ 3,036,000

**FEDERAL PROJECT BR-0002(415)D  
STATE PROJECT S326-2-19.50 00  
McDONALDS/UPPER PLAZA  
MARSHALL COUNTY  
WEST VIRGINIA**

**US 250 INTERSECTION  
ALTERNATIVES**



DATE:

Mr. RJ Scites, P.E.  
Director, Engineering Division  
West Virginia Division of Highways  
State Capitol Complex, Building 5  
1900 Kanawha Boulevard East  
Charleston, West Virginia 25305-0430

**DATE:** Monday, October 20, 2014  
**LOCATION:** John Marshall High School  
**SUBJECT:** INFORMATIONAL WORKSHOP PUBLIC MEETING  
**PROJECT:** McDonalds/Upper Plaza Project  
Marshall County

**COMMENTS DUE BY** Thursday, November 20, 2014

Please consider the following comments:

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(Please print the following information)

NAME:

ADDRESS:

ORGANIZATION (IF ANY):

How did you hear about the Informational Workshop Public Meeting?

**Project Information and Comment Sheets**

Can be found online at our web page <http://go.wv.gov/dotcomment>

Click on engineering projects, Open, and then click on McDonalds/Upper Plaza Project