

US 340 ROCK SLIDE PROJECT



STATE PROJECT: S319-340-15.78.00
FEDERAL PROJECT: NHPP-0340(063)D US

MATHER TRAINING CENTER,
HARPERS FERRY, WV

4:00 PM - 7:00 PM

THURSDAY, FEBRUARY 6, 2020

PURPOSE

The purpose of this workshop is to introduce the US 340 Rock Slide Project to the public and solicit input.

The workshop is intended to be informal to maximize the interaction between citizens and the project team. We encourage attendees 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 Public Information Workshop is from 4:00 pm to 7:00 pm and there will be **no formal presentation.**



REGISTRATION

1. **Print your name and address on the registration sheet. Additional copies of this handout and the comment sheet are available at the registration table**
2. **Comments are welcome as you visit the displays around the room**
3. **Completed comment sheets can be:**
 - **PLACED** in the Comment Box
 - **RETURNED** to any WVDOH representative at the meeting
 - **MAILED** to the WVDOH at the address on the back of this handout



ENVIRONMENTAL STUDIES

Representatives from the WVDOH are available to discuss the environmental study process. Maps depicting the proposed project improvements are available to view.

This meeting complies with the public involvement requirements of the National Environmental Policy Act of 1969 (NEPA) and Section 106 of the National Preservation Act of 1966.



ENGINEERING

Representatives from the WVDOH and HDR are available to discuss the location and preliminary design of the project, how this type of improvement functions/operates, the operational and safety benefits it provides.

Rockfall remediation is required for potential rockfall hazards within the US 340 study area. The preliminary remediation options have been developed for the study area to mitigate potential rockfall hazards and improve public safety.



RIGHT-OF-WAY

The preliminary remediation options have been developed based on the design study completed on slopes within the existing WVDOH right-of-way and NPS property. All rockfall treatments will be constructed with the existing WVDOH right-of-way and NPS property.

PROJECT DESCRIPTION

The project study area is located along the northbound (NB) and southbound (SB) lanes of US 340 in Jefferson County, WV, in the Loudoun Heights region of the Harper's Ferry National Historical Park and west of the West Virginia / Virginia border on the southern bank of the Shenandoah and Potomac Rivers. US 340 is a high-traffic volume corridor serving local, commuter, and truck traffic from West Virginia, Virginia, and Maryland. This corridor also experiences high traffic volume from seasonal tourism due to its recreational and historical significance in the region. The existing cut slopes in the project study area are a product of US 340 construction in the mid-1950s and natural erosion along the Shenandoah River. The cut slopes and the exposed rock of natural slopes vary in height from 150 feet to greater than 300 feet above the roadway. The cut slopes in the project study area exhibit varying degrees of rockfall activity that present potential hazards to the traveling public, and require ongoing maintenance by the WVDOT.



PURPOSE

The purpose of this project is to implement rockfall protection and stabilization measures associated with the existing slopes along US 340 NB, while considering local traffic impacts and future development of the US 340 corridor.



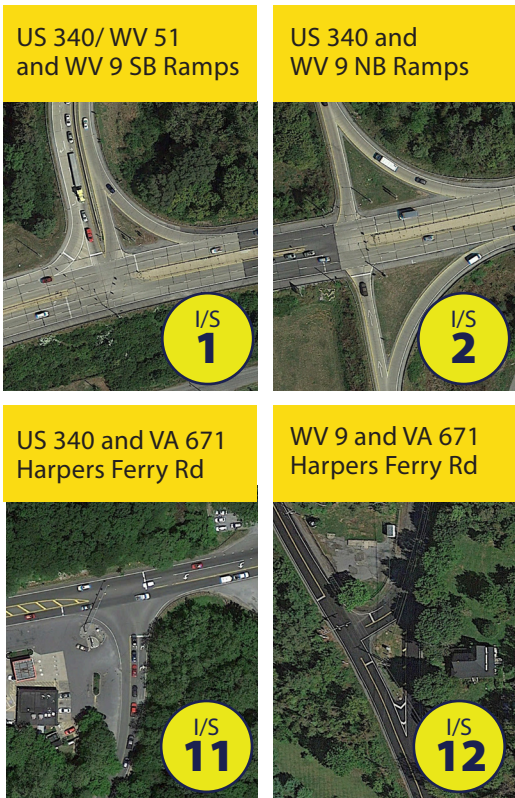
NEED

Due to the high volume of traffic, and that US 340 is the main route through this area, rockfalls pose a threat to public safety. Not only from the rockfall itself, but from road closures that result from rockfalls, and the potential impact to emergency vehicle response times. Based on the analysis in a design study prepared in April 2018, there is a high potential for rockfall in the area and an established public safety need to implement rockfall protection and stabilization mitigation measures for the priority slopes.

PROJECT AREA



FULL DETOUR MAP



LEVEL OF SERVICE (LOS)

A standard measurement, based on vehicle delay and queues, which reflects the relative ease of traffic flow on a scale of A to F.

LOS A

Minor delay at signal, little queuing

LOS F

Highly congested traffic conditions

Summary of Intersection Level of Service		<div> <div>AM</div> <div>PM</div> <div>SAT</div> </div>					
INTERSECTION		EXISTING CONDITIONS			FULL DETOUR		
I/S #1	US 340/ WV 51 and WV 9 SB Ramps	B	D	C	B	E	B
I/S #2	US 340 and WV 9 NB Ramps	C	F	D	E	F	F
I/S #3	US 340 and Keyes Ferry Rd/ Jefferson Terrace Rd	A	B	B	A	C	B
I/S #4	US 340 and Patrick Henry Way/ Somerset Village Rd	B	D	D	B	E	E
I/S #5	US 340 and Country Club Rd and Marlowe Rd	B	C	B	B	B	B
I/S #6	US 340 and WV 230 Shepardstown Rd	B	B	A	A	B	A
I/S #7	US 340 and US Customs and Border Protection/ Shipley School Rd	A	A	A	A	A	A
I/S #8	US 340 and Bakerton Rd/ Millville Rd	B	B	B	A	A	A
I/S #9	US 340 and Washington St	C	E	B	B	B	B
I/S #10	US 340 and Shenandoah St ¹	D	E	D	A	A	A
I/S #11	US 340 and VA 671 Harpers Ferry Rd	C	C	B	A	A	A
I/S #12	WV 9 and VA 671 Harpers Ferry Rd	B	B	A	F	F	F

¹ - Unsignalized LOS is for worst stop controlled approach.

PRELIMINARY SLOPE REMEDIATION PLAN MAP



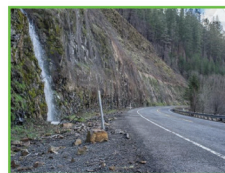
MAINTENANCE
SCALING



LOCALIZED ROCK
BOLTING



ATTENUATOR
BARRIER



ATTENUATOR
DRAPE



PINNED ROCK
BERM



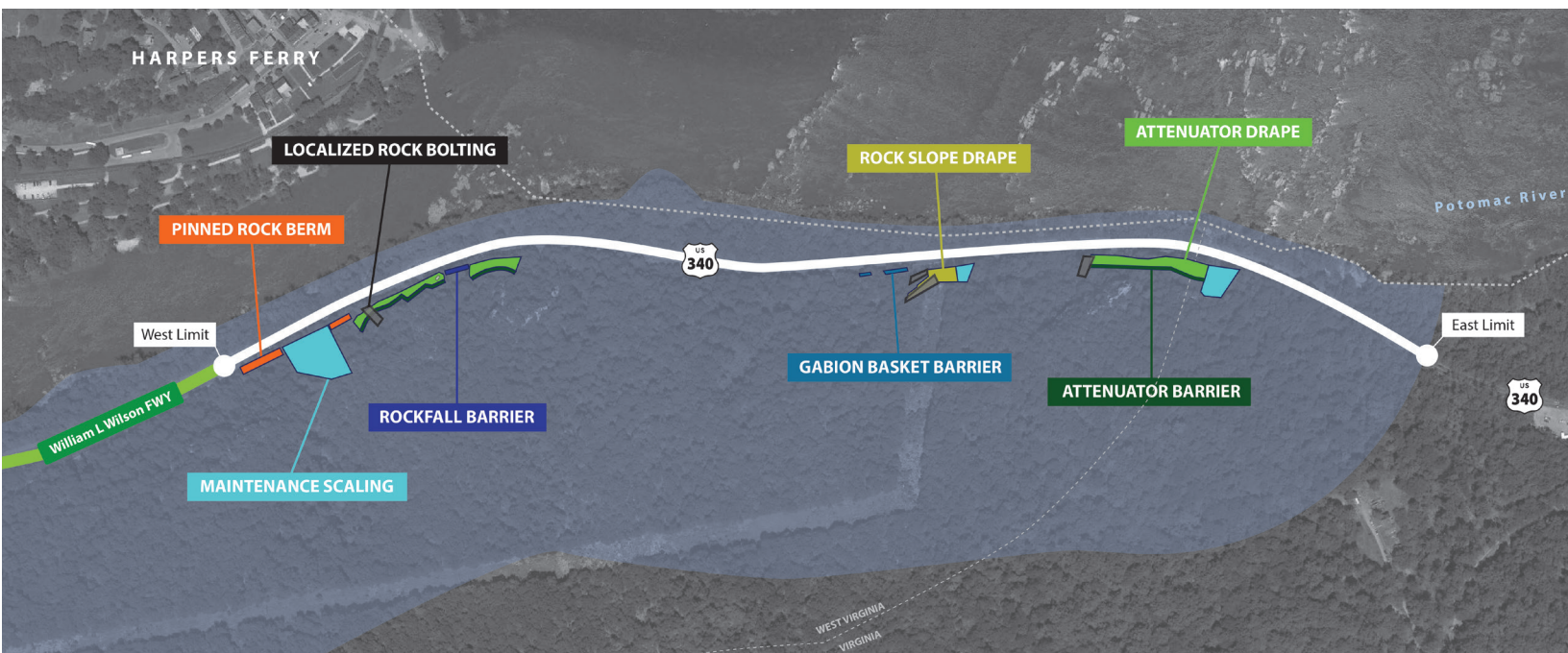
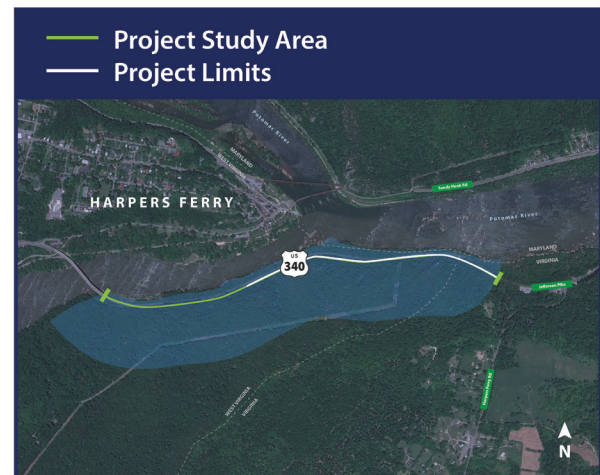
ROCKFALL
BARRIER



GABION BASKET
BARRIER



ROCK SLOPE
DRAPE



WHY SHOULD YOU BE INVOLVED IN THE PROJECT?



Each comment and suggestion provided will help the involved agencies hear directly from the public. Your input is important and will be used to guide the project team as the project moves forward.

Please send written comments on or before
March 9, 2020 to:



Mr. Raymond J. Scites, P.E.
Director, Engineering Division
West Virginia Division of Highways
1334 Smith Street
Charleston, West Virginia 25301



Project Information and
Comment Sheets can be found online at:
<http://go.wv.gov/dotcomment>

Click on **"Comment on Engineering Project"**, and
then click on **"US 340 Slide Repair"**