Public Meeting: February 6, 2020 STATE PROJECT: S319-340-15.78.00 FEDERAL PROJECT: NHPP-0340(063)D US



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, 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 WVDOH.



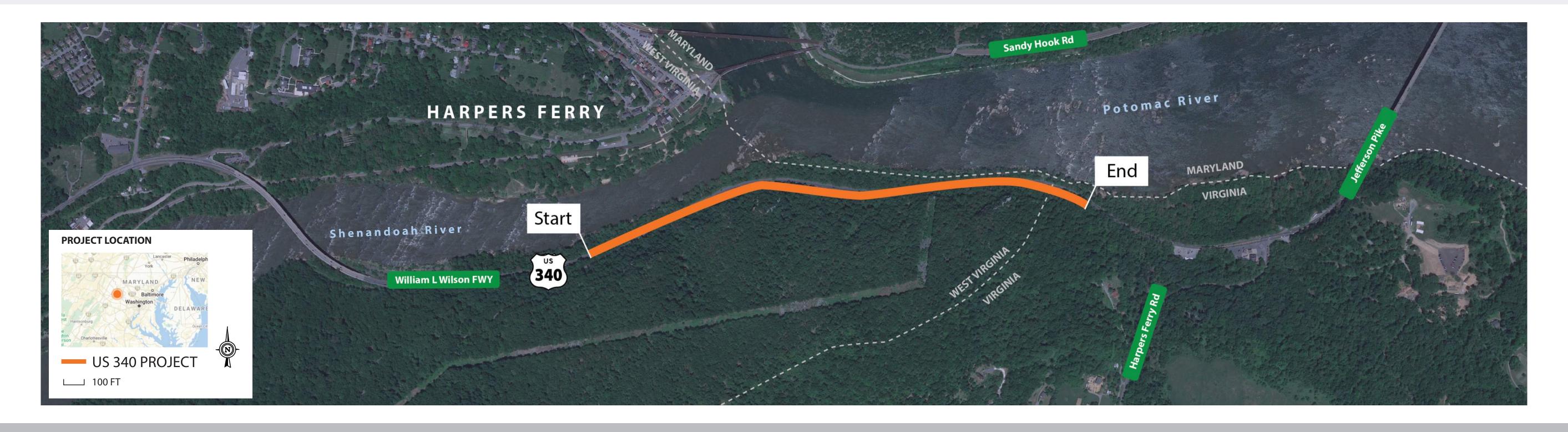
PURPOSE

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.

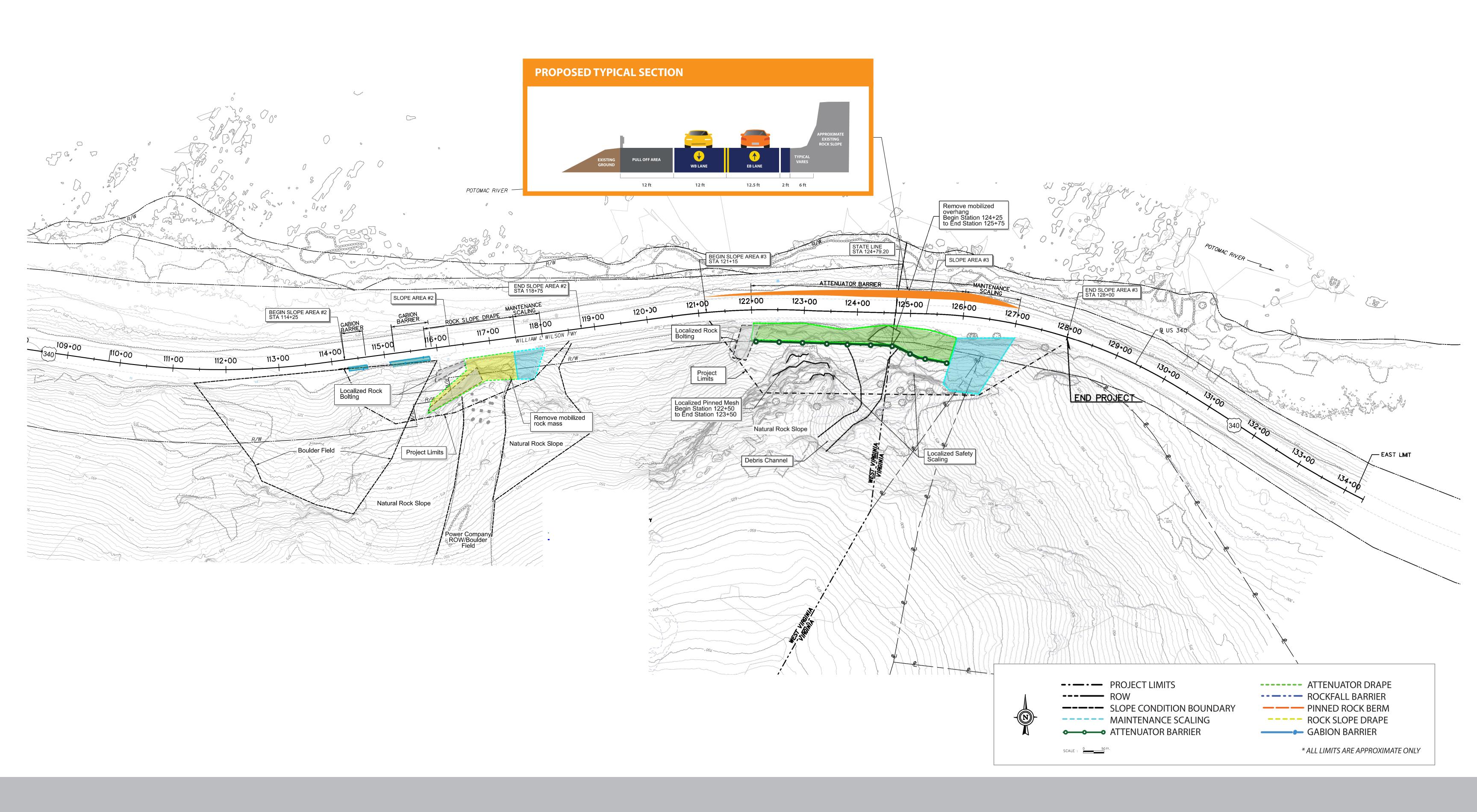


NEED

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.

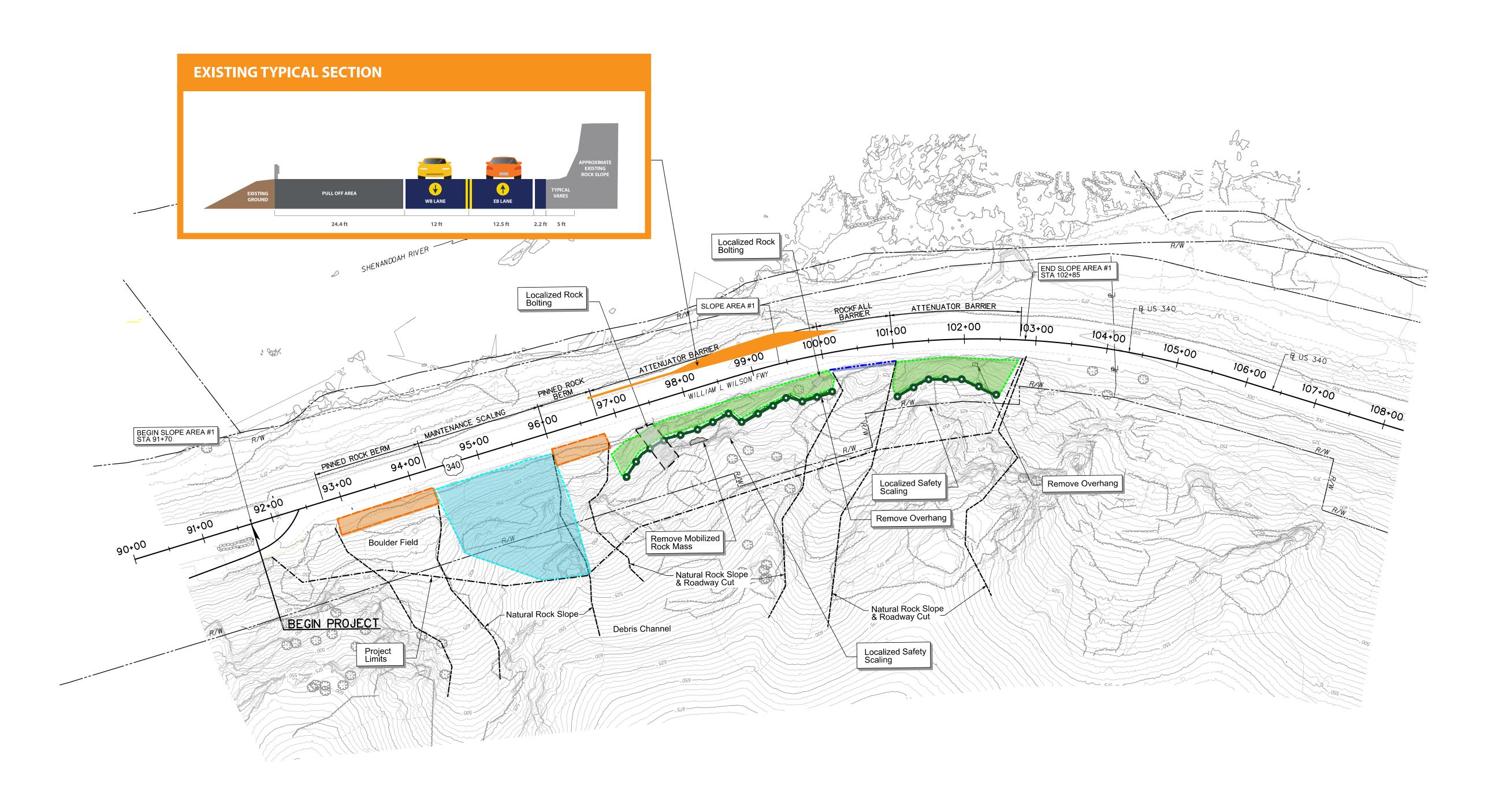


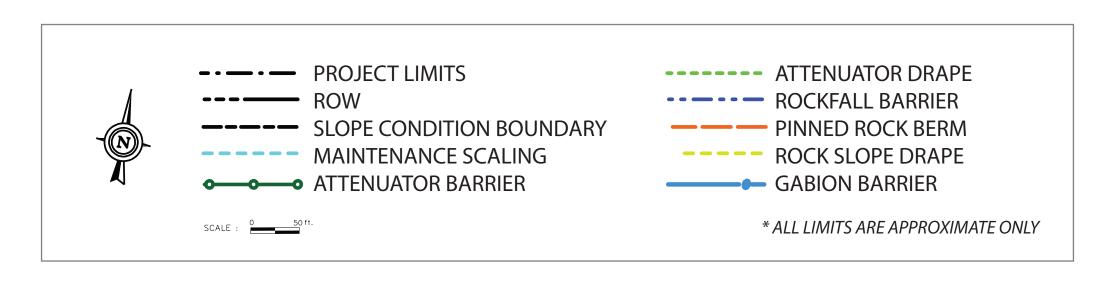




PRELIMINARY SLOPE REMEDIATION PLAN







US 340 ROCK SLIDE PROJECT

PRELIMINARY SLOPE REMEDIATION PLAN MAP

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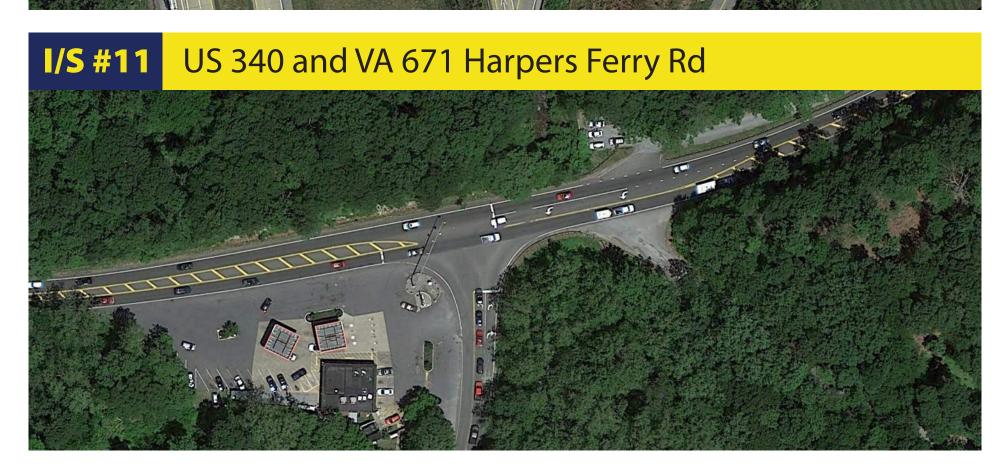


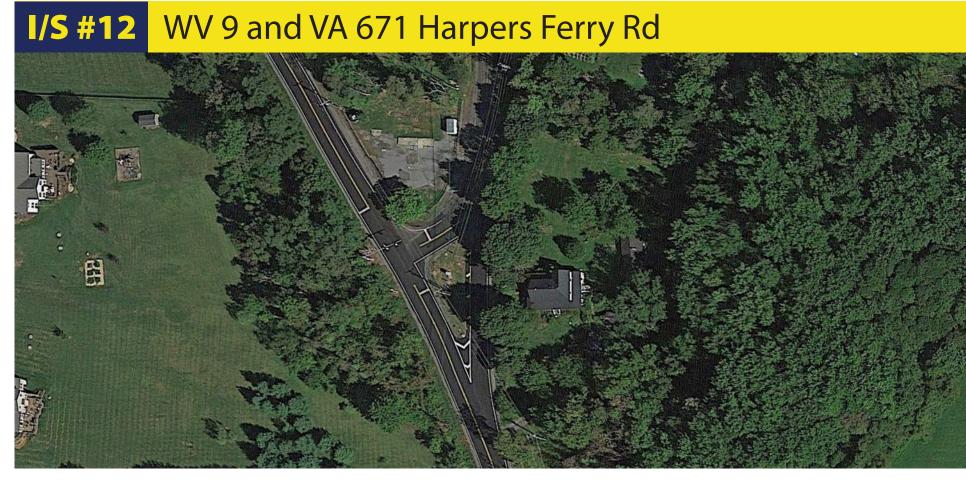


PROPOSED DETOUR ROUTE MAP















LEVEL OF SERVICE (LOS)

Level of Service (LOS)

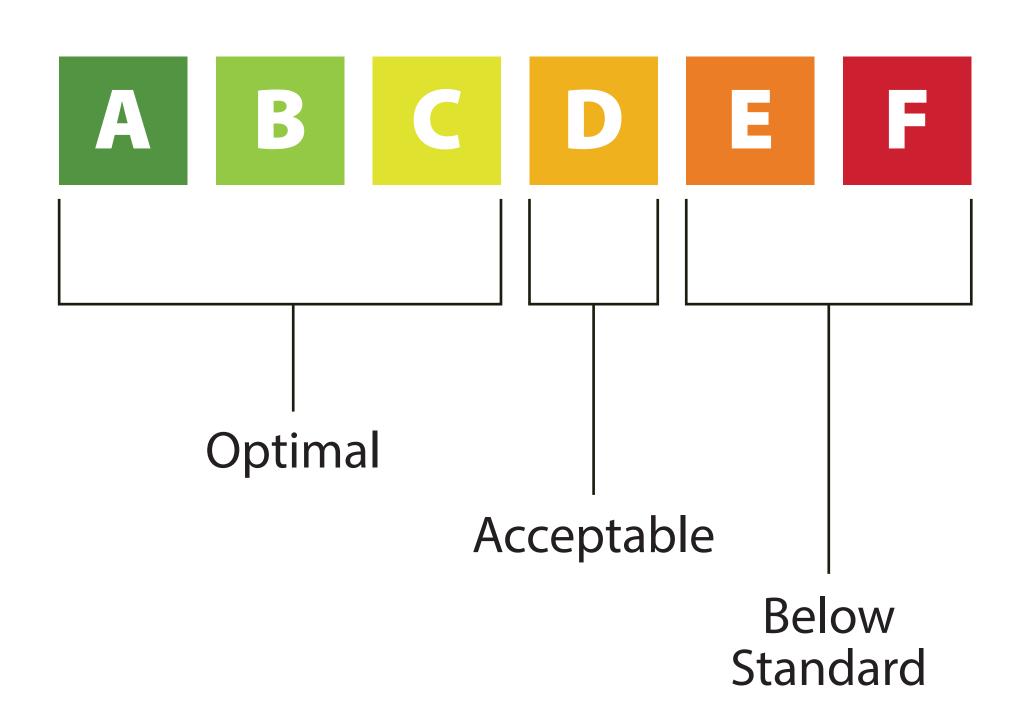
A standard measurement, based on vehicle delay and queues, which reflects the relative ease of traffic flow on a scale of A to F.

LOS A

Minor delay at signal, little queuing

LOS F

Highly congested traffic conditions



Summary of Intersection Level of Service	AM PM SAT		
INTERSECTION	EXISTING FULL DETOUR CONDITIONS		
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		
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		
I/S #6 US 340 and WV 230 Shepardstown Rd	B B A B A		
I/S #7 US 340 and US Customs and Border Protection/ Shipley School Rd	A A A A A		
I/S #8 US 340 and Bakerton Rd/ Millville Rd	B B B 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		
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		

¹- Unsignalized LOS is for worst stop controlled approach.

US 340 ROCK SLIDE PROJECT

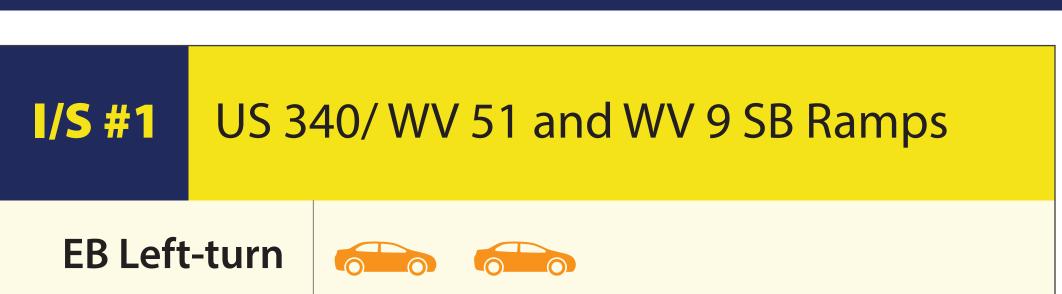


DETOUR ROUTE INTERSECTION QUEUES

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Summary of PM Maxmimum Queue Lengths at Key Intersections

Full Detour Conditions



Existing Conditions

100 Feet

I/S #1 US 340/ WV 51 and WV 9 SB Ramps					
EB Left-	turn				
EB Thro	ugh				
WB Thro	ugh				
SB Left-	turn				
SB Right-	turn				

I/S #11	US 340 and VA 671 Harpers Ferry Rd				
EB Thro Right					
WB Left	-turn				
WBThre	ough				
NB Left	-turn				
NB Right	-turn				

I/S #2 US 34	40 and WV 9 NB Ramps
EB Left-turn	
EB Through	
WB Through	
NB Left-turn/ Right-turn	

