

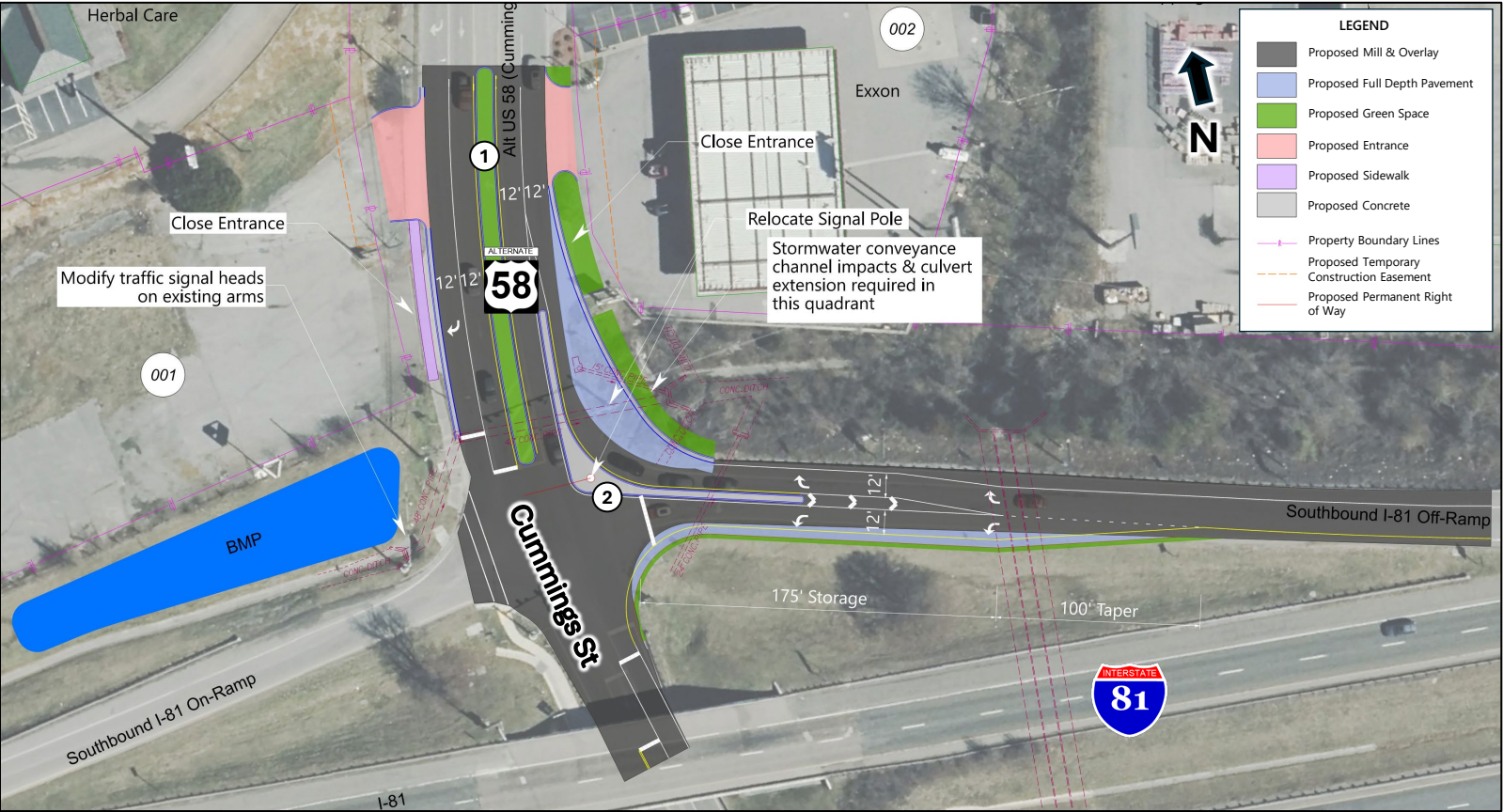


PROJECT PIPELINE PHASE 3 PREFERRED ALTERNATIVE

Cummings Street Access Management and Turn Lanes

VDOT District: Bristol / Locality: Town of Abingdon

BR-25-01



Project Description

The improvements proposed at this location include:

- ① **Access Management for Cummings St at I-81 Southbound Ramps Intersection**
 - Install median along Cummings St north of intersection
 - Close southern driveway of Exxon gas station
- ② **Intersection Geometry Changes at the I-81 Southbound Off-Ramp**
 - Channelize southbound off-ramp right turn movement and remove movement from signal control

Safety Results

The right turn channelization at the I-81 off-ramp significantly decreases the queue spillback onto the I-81 mainline and mitigates associated rear-end and lane change crash risk. Installing a median along the north leg of the intersection removes the left turn conflict between vehicles entering/exiting the gas station and through vehicles. Closing the southern gas station driveway mitigates merging conflicts between northbound through vehicles and off-ramp right turns.

Traffic Operations Results

The preferred alternative improvements are projected to significantly reduce the queue on the I-81 off-ramp, eliminating queue spillback onto the I-81 mainline in the 2054 design year.

ALT US 58 (Cummings St) and I-81 Southbound Off-Ramp	Peak Hour Maximum Queue Length (Feet)			
	No-Build (2054)		Build (2054)	
	AM	PM	AM	PM
Westbound (Off-Ramp)	2,996	2,413	78	529
Northbound	2,584	1,074	1,994	603
Southbound	776	1,134	435	1,274

Project Schedule & Preliminary Cost

Project schedules and cost estimates were based on information available at the time of the study and should be reassessed prior to submitting funding applications.

Phase Description	Budget (FY 2026)	Estimated Schedule
Preliminary Engineering	\$1,683,437	January 1 st , 2029
Right of Way and Utility Relocation	\$484,748	December 16 th , 2031
Construction	\$4,748,459	Start: September 14 th , 2032
Total Project Budget	\$6,916,644	Complete: September 19th, 2034

Rec. for Approval	VDOT Design Lead
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