



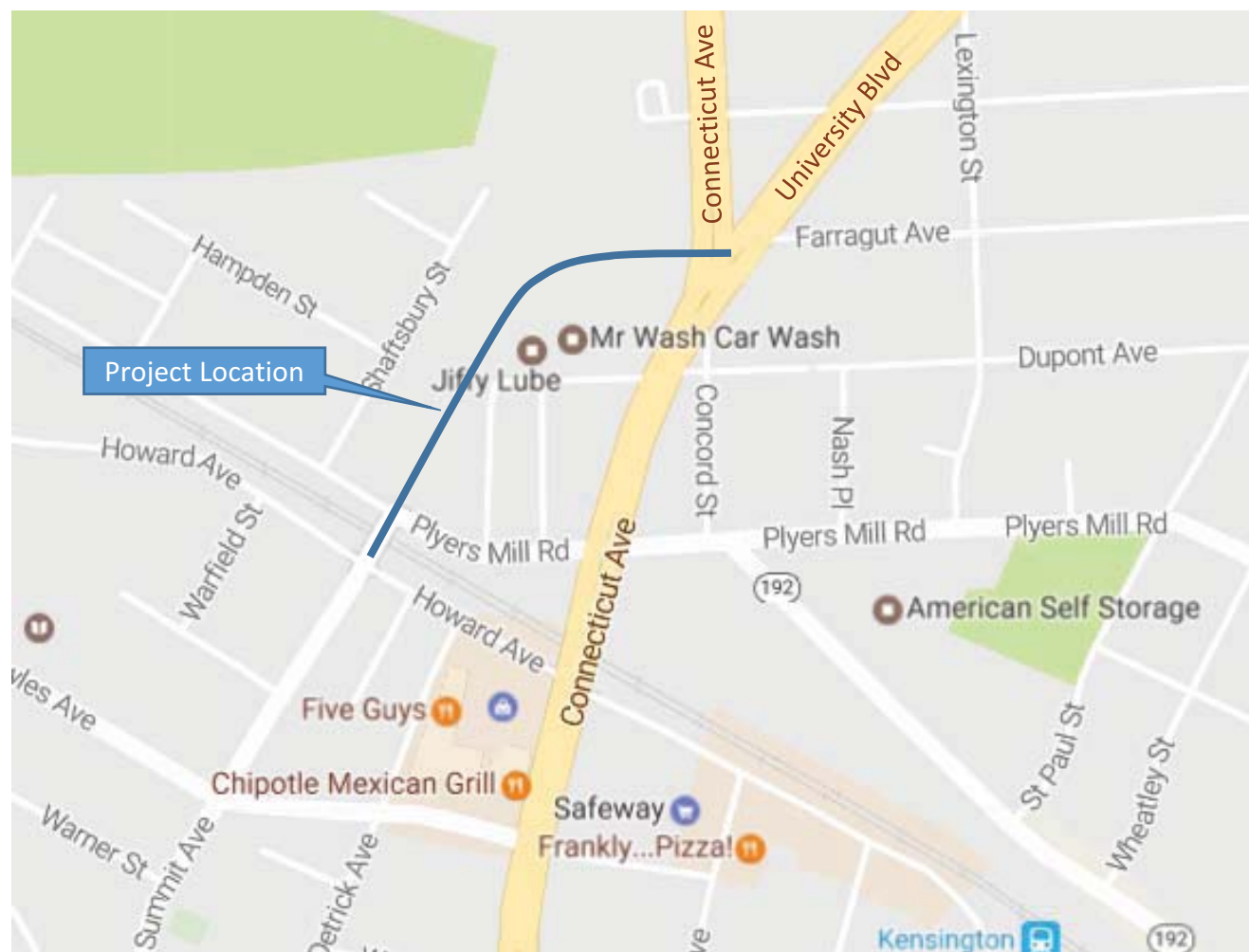
Summit Avenue Extension

Montgomery County Department of Transportation

FACILITY PLANNING PHASE I STUDY

Public Workshop

June 13, 2017



Project Purpose

- Alleviate Traffic Congestion on Connecticut Ave (MD 185) and University Blvd (MD 193)
- Provide Alternative Route for Southwest-Northeast Travel

Montgomery County Department of Transportation (MCDOT)
Division of Transportation Engineering (DTE)

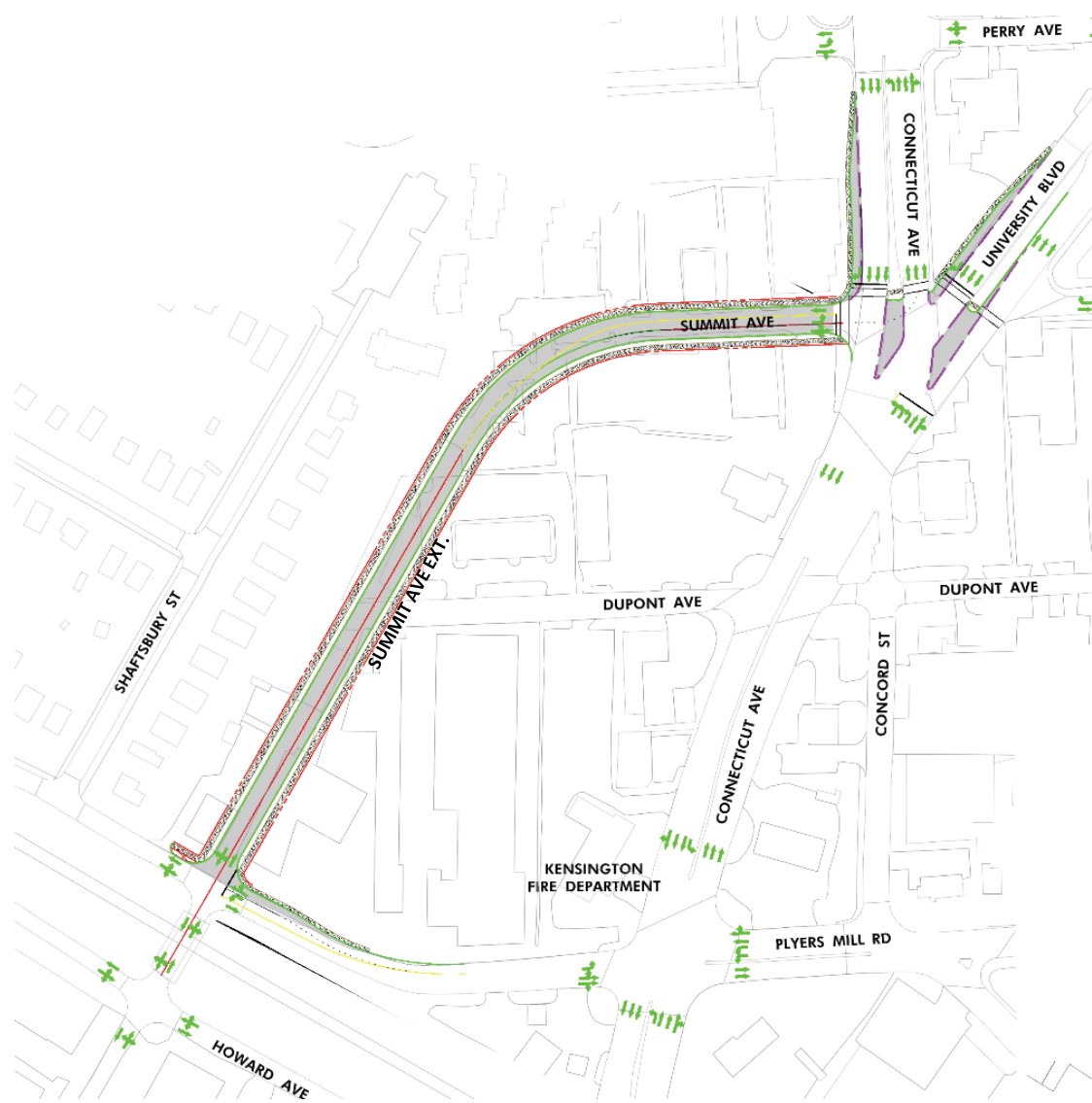
Project Website: <http://www.montgomerycountymd.gov/dot-dte/projects/summitave/index.html>



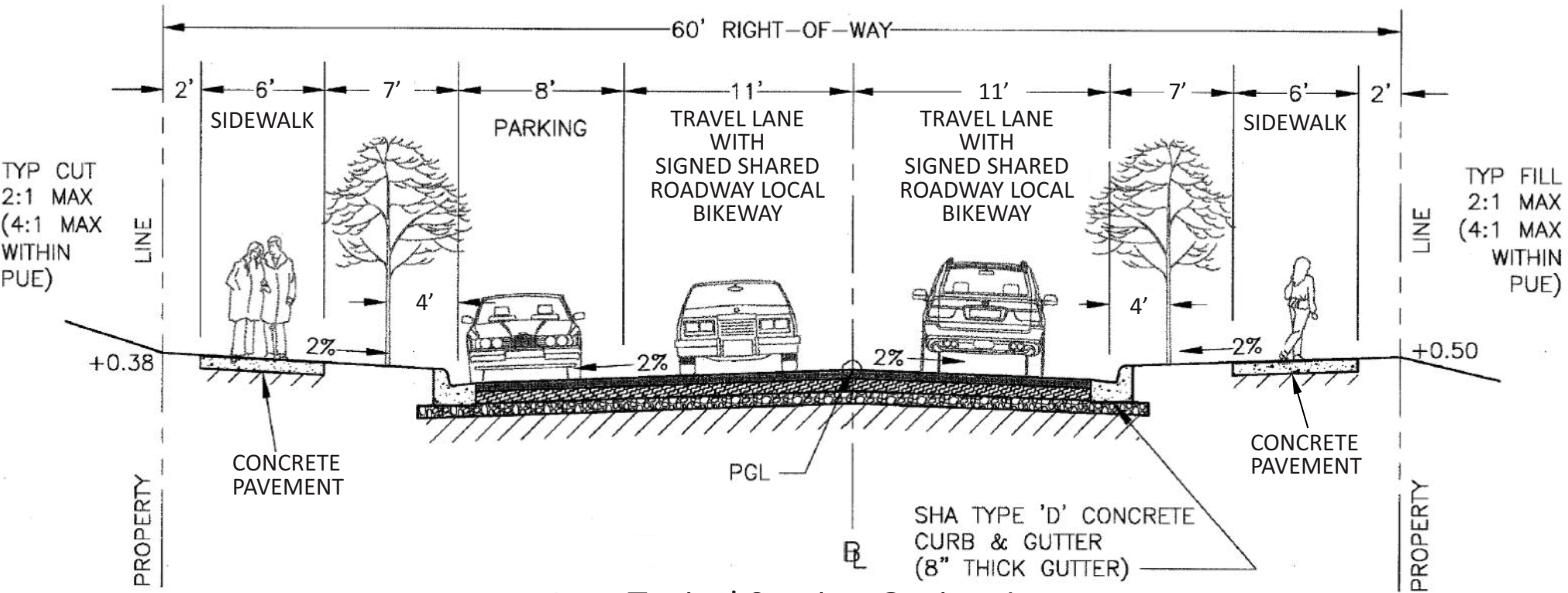
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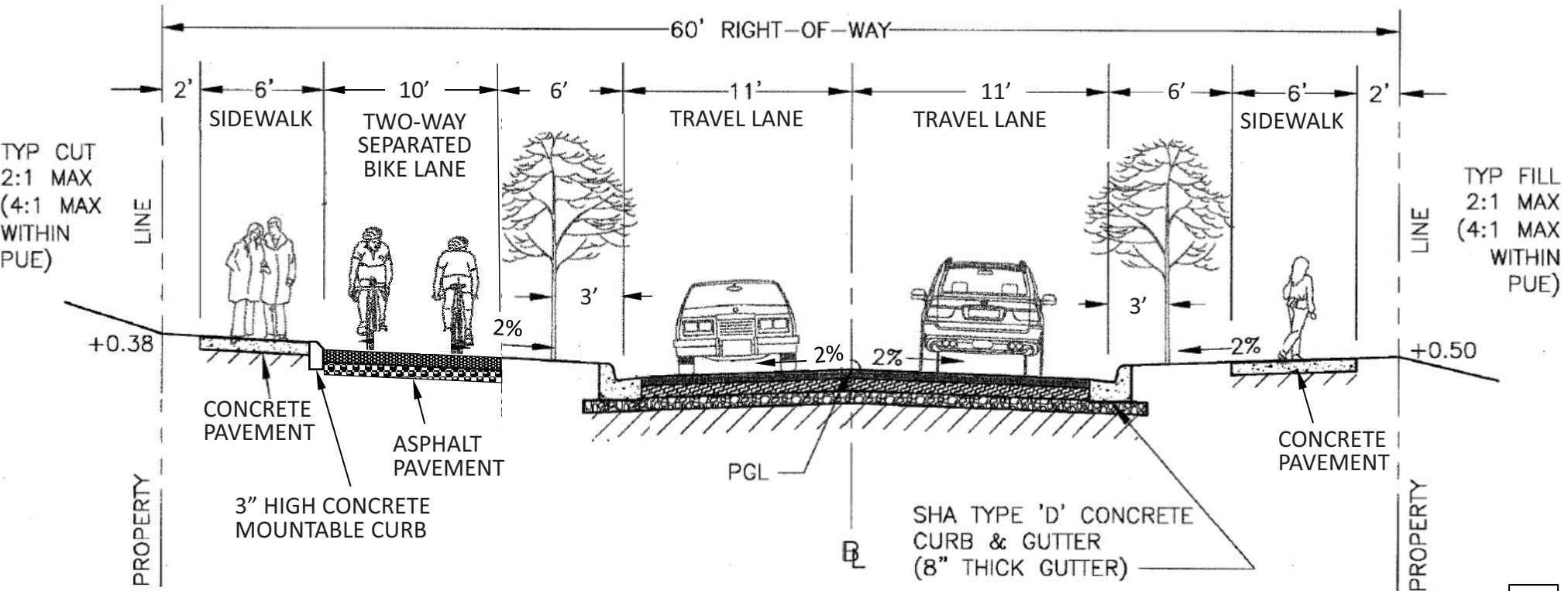
Conceptual Design



- Additional Improvements:
 - Add a 125' Plyers Mill Rd. westbound left-turn lane at Summit Ave.
 - Extend Knowles Ave. eastbound left-turn lane at Summit Ave. to 250'



Typical Section Option A



Typical Section Option B



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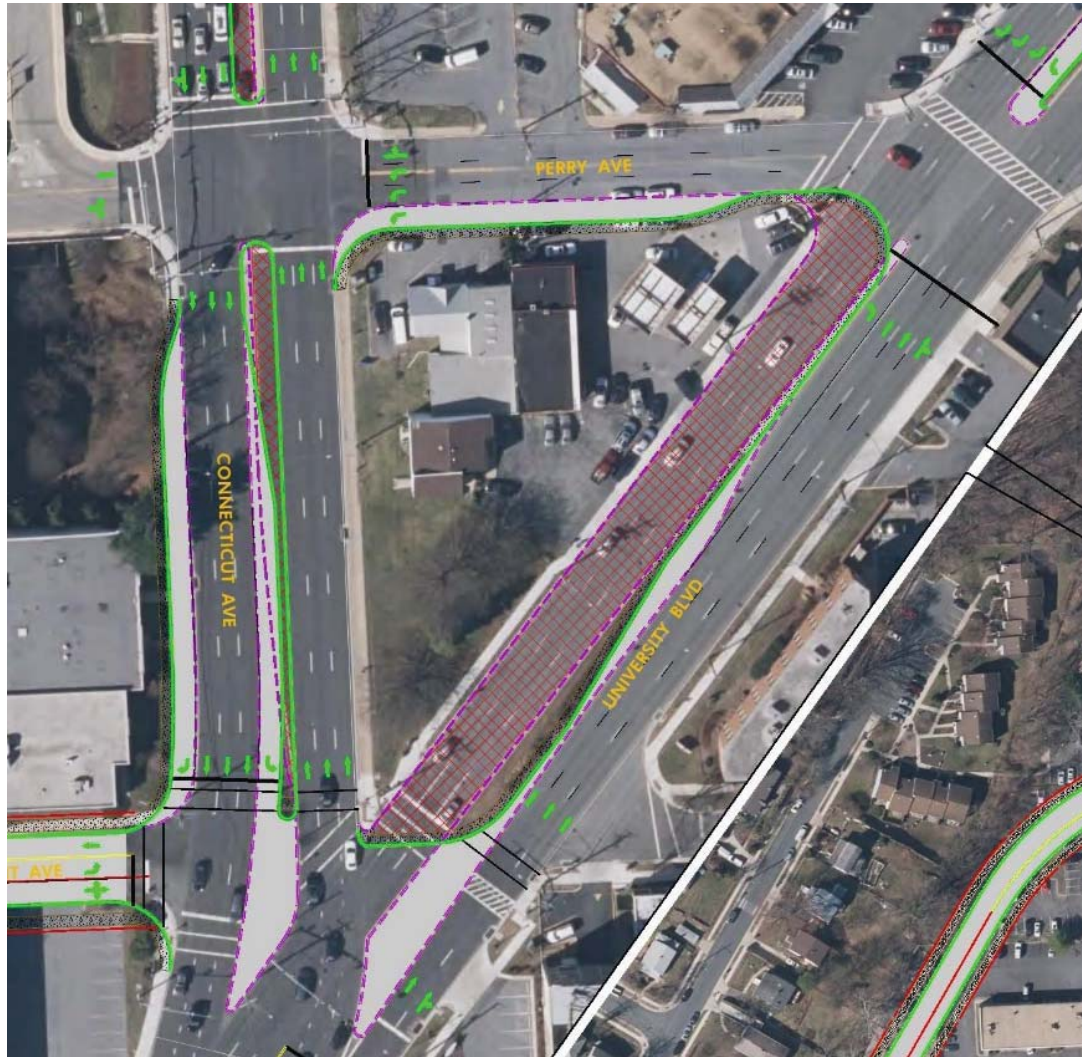
MD 185 and MD 193 Intersection Alternatives



Alternative 1



Alternative 2



Alternative 3



Montgomery County Department of Transportation

Intersection Level of Service - 2040 No Build and Alternatives



Overall Intersection LOS

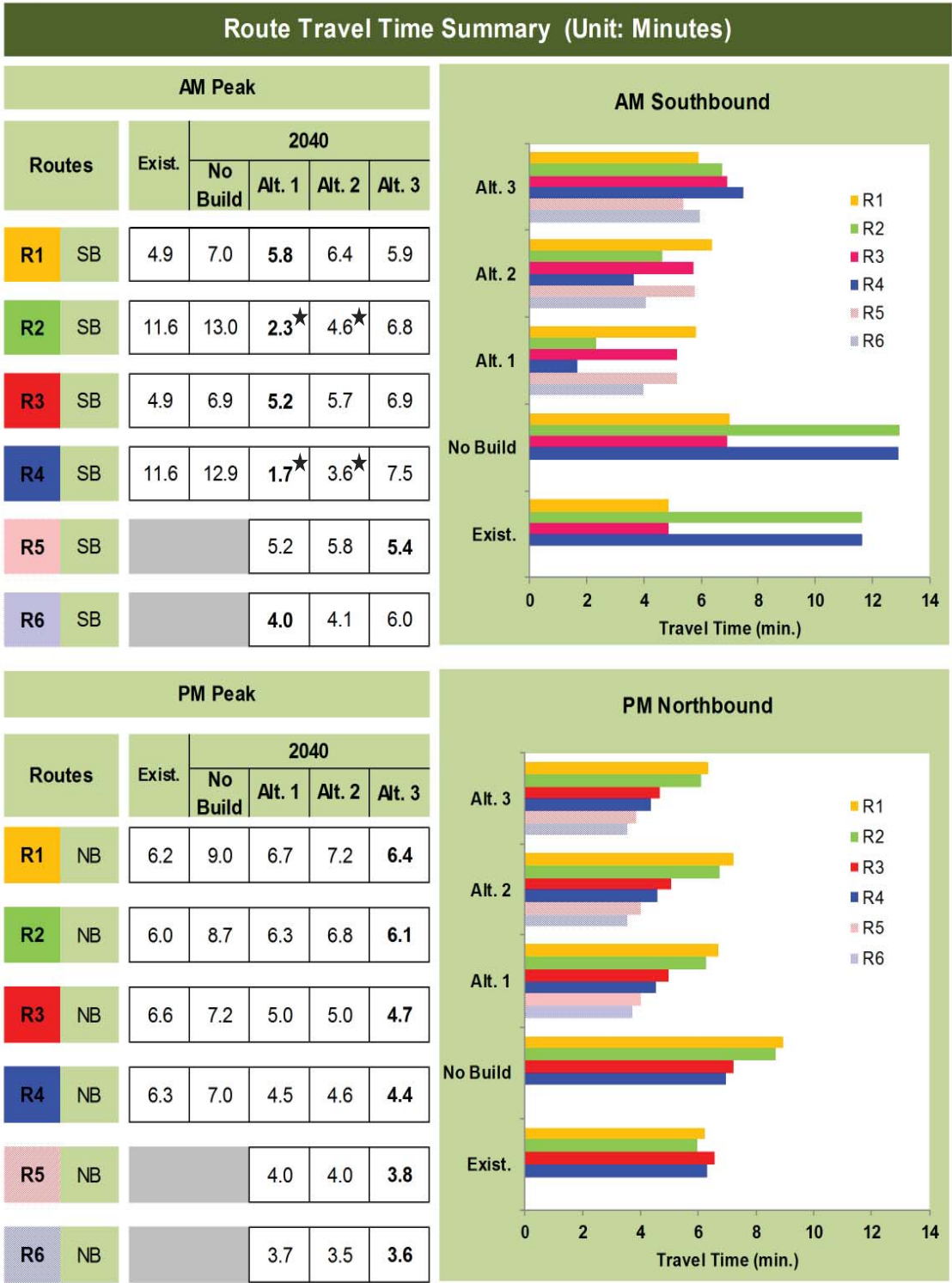
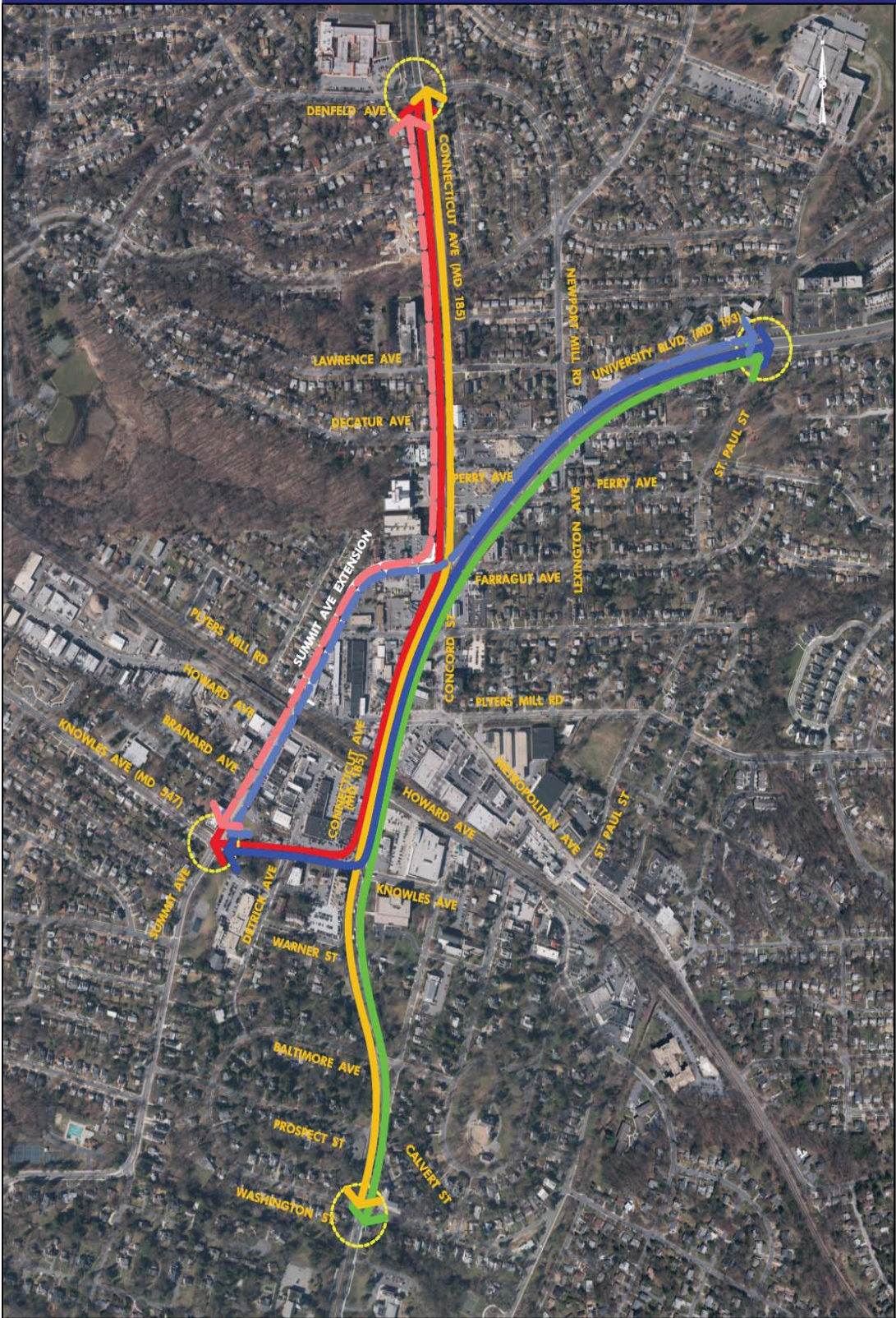
-
- Legend for bubble size and color:
- Small green bubble: A, B, C
 - Small yellow bubble: D
 - Small orange bubble: E
 - Small red bubble: F (< 100 sec. Avg. Delay)
 - Medium red bubble: F (100-120 sec. Avg. Delay)
 - Large red bubble: F (>120 sec. Avg. Delay)



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ROUTE TRAVEL TIMES



- ROUTES**
- ROUTE 1:**
MD 185 / DENFELD AVE
- MD 185 - MD 185 / WASHINGTON AVE
 - ROUTE 2:**
MD 193 / ST. PAUL ST
- MD 185 - MD 185 / WASHINGTON AVE
 - ROUTE 3:**
MD 185 / DENFELD AVE
- MD 185 - MD 547 / SUMMIT AVE
 - ROUTE 4:**
MD 193 / ST. PAUL ST
- MD 185 - MD 547 / SUMMIT AVE
 - ROUTE 5:**
MD 185 / DENFELD AVE
- SUMMIT AVE - MD 547 / SUMMIT AVE
 - ROUTE 6:**
MD 193 / ST. PAUL ST
- SUMMIT AVE - MD 547 / SUMMIT AVE

★ THE MODELS MAY BE TOO OPTIMISTIC AND REQUIRE FURTHER EVALUATION.





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Summit Ave Bridge Widening Analysis

Alt. 1 PM with Existing Bridge



Alt. 1 PM with Additional Northbound Right-Turn Lane on Bridge



LEGEND:

Traffic Queue

Traffic Direction

Level of Service (LOS) Impacts				
Approach	2040 Alt. 1		2040 Alt. 1 with Bridge Widening	
	AM	PM	AM	PM
Plyers Mill Rd. Eastbound	C	C	C	C
Plyers Mill Rd. Westbound	D	D	D	C
Summit Ave. Northbound	A	A	A	A
Summit Ave. Southbound	A	A	A	A



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Summary – Right of Way Impacts



	Building Taken (EA)	Fee Simple (Acre)
Alt 1	7	2.64
Alt 2	8	2.76
Alt 3	7	2.70



POTENTIAL DISPLACEMENTS



RIGHT OF WAY TO ACQUIRE



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Estimated Right-of-Way (ROW) and Construction Costs

	Alternate 1	Alternate 2	Alternate 3
ROW and Relocation Cost	\$14.0M	\$14.6M	\$14.3M
Roadway Cost	\$4.1M	\$7.0M	\$5.9M
Bridge Widening Cost	\$0.6M	\$0.6M	\$0.6M
Total	\$18.7M	\$22.2M	\$20.8M

Note: Estimated costs do not include design and construction management.