

Project Description

Project Name:	Hockett Road Realignment	Date:	September 2018
Project Limits From:	Hockett Road	To:	Broad Street Road
MTP Functional Classification:	Major Collector	Length (mi.):	0.28
Existing Lanes / Proposed Lanes:	New Road / 3 lanes (needs to be further analyzed)	Divided:	No
Recommendations:	Construct south leg of intersection Construct multi-modal facility No specific alignment or cross section determined yet. However, for estimating purposes a 3-lane section was used. Note: Partially funded (2014) - \$1.5M (TPO funding but still need \$400K)	Justification Criteria:	   Safety Operational Multi-Modal

Traffic Data

	AADT	Volume/Capacity (V/C) Ratio	Level of Service (LOS)
Existing	-	-	-
2040 No-Build (w/o Improvements)	-	-	-
2040 Build (w Improvements)	1,600	0.11	A

Planning Level Costs

Description	Costs
Roadway Typical Section GB-3	\$1,389,206
Westbound Left-Turn Lane	\$238,000
Signal Modification	\$142,000
6' Sidewalk Each Side	\$148,864
Bridge #1	\$0
Bridge #2	\$0
Bridge #3	\$0
Roadway & Bridge Subtotal	\$1,915,100
Additional Contingency (10%)	\$191,510
Utilities (25%)	\$478,775
Right-of-Way (25%)	\$478,775
CEI (10%)	\$287,265
Grand Total	\$3,351,425

Cost Inputs

Project Length (Miles)	0.28		
Shoulder Length (Miles)	0.00		
Multi-modal Facility (Miles)	0.00		
Shared Path Length (Miles)	0.00		
Bridge #1 Length (Feet)	0	Bridge #1 Width (Feet)	0
Bridge #2 Length (Feet)	0	Bridge #2 Width (Feet)	0
Bridge #3 Length (Feet)	0	Bridge #3 Width (Feet)	0

Funding

SMART SCALE	
Revenue Sharing	
RSTP	
SSYP	
HSIP	
TAP	
Private Investment	

Specific Assumptions

- Assumed a three-lane section, estimated with the High cost due to the short distance and intersection tie-ins.
- Added west left-turn lane in the median at the average cost.
- Added one additional mast arm and pole as part of the signal modification.

General Assumptions

- Minimum roadway standards shall be in accordance with the VDOT Road Design Manual standards
- Costs are based on VDOT's TMPD Statewide Planning Level Cost Estimates
- Cost in 2018 dollars
- Costs include 25% for PE & Construction Contingencies
- Annual inflation rate is 3.0% annually
- No lighting, streetscape, signalization, storm water management or utility betterments are included

Project Location Map



Proposed Cross Section

