CSE Approach to Parham Road and Patterson Avenue Intersection, Henrico County, UPC 101034

Project Scope: Improve intersection capacity and safety

Project History

• High priority of Henrico County for many years
• Project was studied and restudied dating back to early 2000’s
• Scope was originally an urban grade separated interchange and estimate was 70-90 million
• Richmond Regional TPO committed funding to the project
• SMARTSCALE application was successful in supplementing project funding
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**Original Intersection Design**

- Matched Existing Lane Width 12’, VDOT C&G, 4’ Median Strip, 4’ buffer width and 5’ sidewalk
- Potential total take of Burger King due to impacts on the number of parking spaces.

RW parcel cost $1.5M - $2M
CSE Approach to Parham Road and Patterson Avenue Intersection, Henrico County, UPC 101034

Project Scope: Improve intersection capacity and safety

CSE Approach

• Widening on both sides of Parham Road
• Reduced lane width, buffer width, sidewalk width, median curb width, Henrico C&G
• No impact on Burger King parking

Impact of CSE

• Savings on RW and CN cost as well as RW negotiation and relocation time and effort; making it possible to accelerate project schedule and advertise by end of 2020.
• Project in an urbanized area and reducing RW impact helps to gain public support on the project.

CSE Savings $1.7M
CSE Approach to Parham Road and Patterson Avenue Intersection, Henrico County, UPC 101034

Project Scope: Improve intersection capacity and safety

Approximate Contract Value
• $5,000,000

Current Schedule
• Right of Way acquisition completed late 2019
• Utility Relocation completed in late 2020
• Advertisement in late 2020
• Award in early 2021
CSE Approach to Dundas Road Bridge Replacement and Pedestrian Sidewalk, Chesterfield County, UPC 107085

Project Scope: Replace Structurally Deficient Bridge and Add Pedestrian Sidewalk

**Project History**

- Existing bridge is listed as Structurally Deficient
- Pedestrian sidewalk has been a high priority for Chesterfield County for many years
- VDOT & County teamed up to replace bridge which will include pedestrian sidewalk
- Complex challenges exist with crossing over CSX Rail and Road G which is access to Defense Supply Center of Richmond and adjacent to Bensley Elementary School
Project Scope: Replace Structurally Deficient Bridge and Add Pedestrian Sidewalk

First Design Concept

- Total bridge width 42’-3”
- Provided standard bike lanes on both sides of roadway
- Project footprint from Meadowdale Boulevard to Strathmore Road
- Significant impacts to adjacent property and utilities

RW Phase Costs = $3.0M
CSE Approach to Dundas Road Bridge Replacement and Pedestrian Sidewalk, Chesterfield County, UPC 107085

Project Scope: Replace Structurally Deficient Bridge and Add Pedestrian Sidewalk

CSE Approach

- Total bridge width 36’-3”
- Eliminated bike lanes on both sides and replaced with an 8-foot Shared Use Path
- Project footprint reduced
- Reduced impacts to adjacent property and utilities
- Reduced lane width, buffer width, Shared Use Path width

Impact of CSE

- Savings on RW and CN costs
- Reduced impacts to adjacent properties

CSE Savings $3.5M
CSE Approach to Dundas Road Bridge Replacement and Pedestrian Sidewalk, Chesterfield County, UPC 107085

Project Scope: Replace Structurally Deficient Bridge and Add Pedestrian Sidewalk

Approximate Total Project Cost
• $11,000,000 (PE, RW, CN)

Current Schedule
• Right of Way acquisition planned for late 2019
• Utility Relocation planned for late 2020
• Advertisement in mid 2021
• Award in late 2022