

SMART SCALE PROPOSED PROJECT CHANGES

**ROUTE 311 AND ROUTE 419 INTERSECTION IMPROVEMENT
UPC 108904 – SALEM DISTRICT**

**ROUTE 29 AND ROUTE 6 R-CUT IMPROVEMENT
UPC 115490 – LYNCHBURG DISTRICT**

Commonwealth Transportation Board

Kimberly Pryor – Director, Infrastructure Investment

May 2021

SMART SCALE Policy

SMART SCALE Policy on Scope Changes and/or Budget Increases, February 2020

- A project that has been selected for funding must be re-scored and the funding decision re-evaluated if there are significant changes to either the scope or cost of the project, such that the anticipated benefits relative to funding requested would have substantially changed.
- If an estimate increases prior to project advertisement or contract award that exceeds the following thresholds, and the applicant is not covering the increased cost with other funds, Board action is required to approve the budget increase:
 - » i. Total Cost Estimate <\$5 million: 20% increase in funding requested
 - » ii. Total Cost Estimate \$5 million to \$10 million: \$1 million or greater increase in funding requested
 - » iii. Total Cost Estimate > \$10 million: 10% increase in funding requested; \$5 million maximum increase in funding requested

SMART SCALE Policy - Project Cancellation

SMART SCALE Policy on Project Cancellation, February 2020

- A project that has been selected for funding through either the High Priority Projects Program or Construction District Grant Program may be cancelled only by action of the Board
- In the event that a project is not advanced to the next phase of construction when requested by the Board, the locality or metropolitan planning organization may be required, pursuant to § 33.2- 214 of the Code of Virginia, to reimburse the Department for all state and federal funds expended on the project

SMART SCALE BUDGET INCREASE REQUEST

ROUTE 311 AND ROUTE 419 INTERSECTION IMPROVEMENT UPC 108904 – SALEM DISTRICT

Kimberly Pryor – Director, Infrastructure Investment

May 2021

Project Information

Route 311 and Route 419 Intersection Improvements (UPC 108904)

- Submitted by Roanoke County in Round 1 of SMART SCALE
 - Total Original Project Cost: \$1,957,006
 - Total SMART SCALE Request: \$1,957,006
 - Request funded with DGP funds
- Original Scope Included:
 - Convert an existing signalized intersection to a roundabout
 - Access management, paved shoulders and pedestrian crossing
- Project is VDOT administered
 - Current Estimate: \$3,775,000 representing a \$1,817,994 shortfall
 - Advertisement scheduled for August 2021
 - Current expenditures: \$539,498

Project Location



Funding Shortfall

Major Factors Contributing to Funding Shortfall

- Under-estimation of initial quantities for major items (paving, drainage, etc.)
- Unit prices (from 2015 application) not in line with current trends for urban projects
- Tight working conditions due to grade and adjacent structure
- Risk associated with MOT due to active work zones on I-81

Efforts Taken to Reduce Costs

- Minimized length of tie-ins and connections
- Utilizing existing pavement to the extent possible
- Optimized drainage plan and eliminated non-essential curb and gutter
- Developed MOT concepts to provide additional working space for contractor

Project Budget Increase

- **Current Estimated cost \$3.8M**
 - Total shortfall of \$1.8M
 - Sufficient unallocated Salem DGP funds are available to cover the shortfall

	Original Application	Current
Total \$	\$2.0M	\$3.8M
SMART SCALE \$	\$2.0 (DGP)	\$3.8M (increase of \$1.8M)
Score	5.84	3.03 (based on original benefits)
Funding Scenario	12/20	13/20 (project would still have been funded)
Expenditures as of 5/3/21		\$539,498

Recommendation for Action in June 2021

- **Approve Budget Increase Request**
 - **Fund increase from surplus balances (UPC -21767)**

Salem Construction District Grant Funds	Amount Available
Total Available	\$6,982,152
Less Request	\$1,817,994
Total Remaining	\$5,164,158

SMART SCALE PROPOSED PROJECT CANCELLATION

**ROUTE 29 AND ROUTE 6 R-CUT IMPROVEMENT UPC 115490 –
LYNCHBURG ROADS DISTRICT**

Project Information

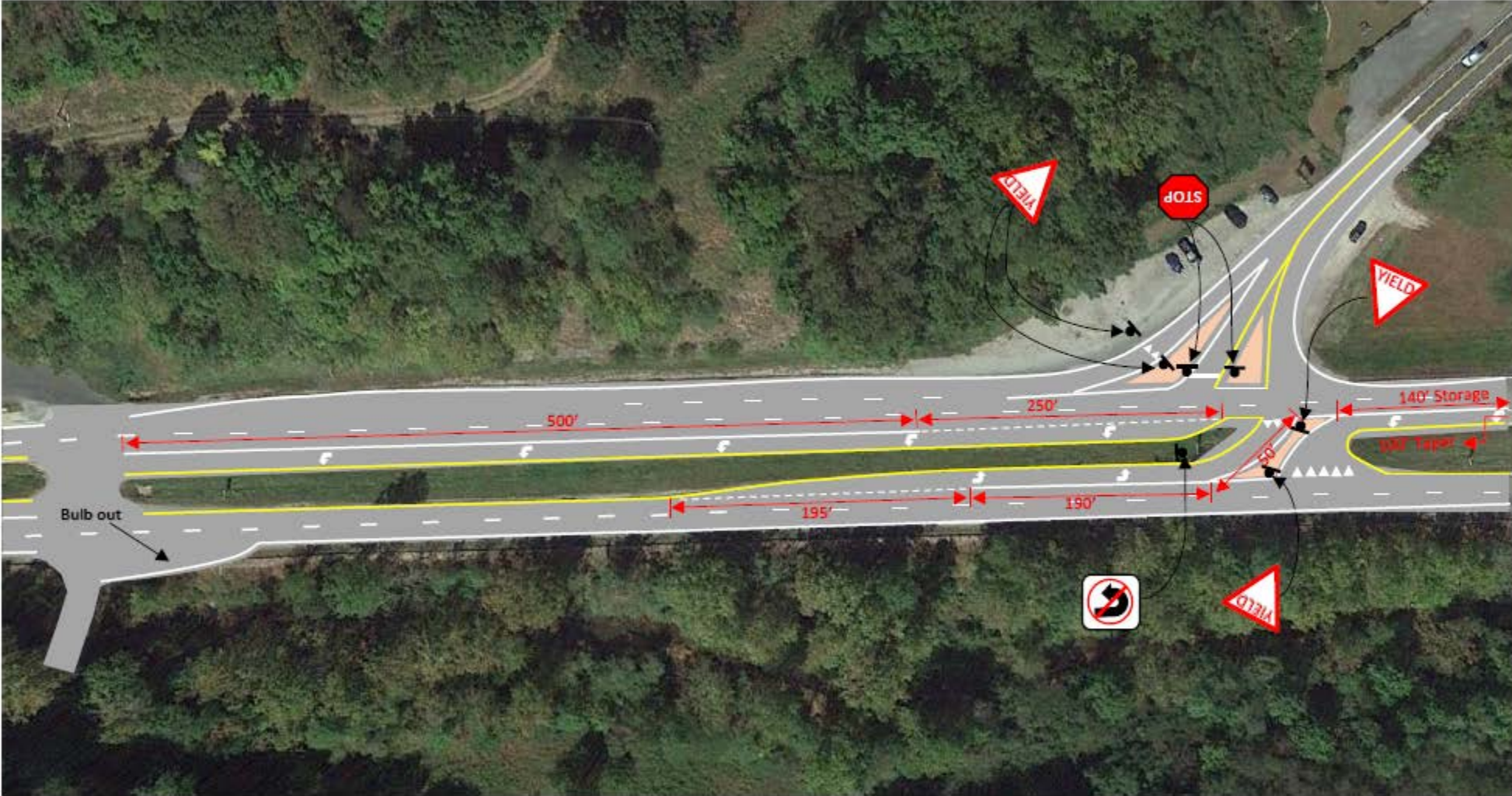
Route 29 and Route 6 R-Cut Improvement UPC 115490

- Submitted by Nelson County in Round 3 of SMART SCALE
 - Total Original Project Cost: \$2,725,677
 - Total SMART SCALE Request: \$2,725,677
 - Request funded with DGP funds
- Project is VDOT administered
 - Preliminary engineering is underway
 - \$21,550 has been spent to date
- Original Scope Included:
 - Reconstruct the intersection as a Restricted Crossing U-Turn Intersection (R-Cut)

Project Snapshot

	Original Application
Total \$	\$2.7M
SMART SCALE \$	\$2.7M (DGP)
Score	7.15
Funding Scenario	5/8
Expenditures as of 5/3/2021	\$21,550K
Current Project Estimate	\$2.7M

Project Location



Change in Project Design

What changed after Project Selection?

- In 2018 a safety project (UPC 114026) was executed at this location
 - Installation of traffic actuated flashing beacons
 - Improvement of pavement markings
 - Installation of signage improvements
- These improvements have significantly addressed the safety issues being targeted with the SMART SCALE application
 - Reduced both total crashes and angle crashes by 50%
- Nelson County passed a resolution requesting cancellation of the project in April 2021

Recommendation for Action

- **Approve proposed project cancellation**
 - Transfer remaining funds to Lynchburg Construction District Grant balance entry (UPC -21764)

