

# Vision 2040: Roanoke Valley Transportation

**AMENDMENT #1**

**DRAFT**  
**June 4, 2018**

### **Safety Performance Measure**

The Virginia 2017-2021 Strategic Highway Safety Plan (SHSP) provides a comprehensive framework for Virginia stakeholders to address transportation-related crashes. The vision for the plan is for every road user, whether driving, walking, bicycling, or taking transit, to “Arrive Alive” at their destination. The Virginia DOT and other state safety stakeholders will accomplish this by addressing the most pressing safety issues, through a combination of safety programs and projects. Within the Constrained Long-Range Multimodal Transportation Plan and other short- and long-range transportation planning and programming activities, RVTPO can apply information from the SHSP and the results of regional crash analysis to support investments that render regional and local travel safer and ultimately contribute to the “Arrive Alive” vision.

The Virginia SHSP is a data-driven plan which establishes a framework of emphasis areas, strategies, and actions to guide stakeholders toward the implementation of effective programs and projects. Key factors contributing to crashes are impaired driving, speed, occupant protection, roadway departures, intersections, young drivers, bicycles, and pedestrians. Each of these emphasis areas is supported by a range of multi-disciplinary (engineering, enforcement, education, and emergency response) strategies and actions to characterize effective solutions.

Metropolitan planning requirements formalized in MAP-21 and the FAST Act requires RVTPO’s Constrained Long-Range Multimodal Transportation Plan and Transportation Improvement Program to align with the SHSP. To facilitate this alignment, VDOT developed crash data heat maps, showing which SHSP emphasis areas are problematic at the regional scale. The data are based on the VDOT Salem District, not RVTPO boundaries, but still provide insights into where and how RVTPO can address safety concerns through programs and projects. Top safety issues in the Salem District include:

- Roadway departures on county roads;
- Intersections on the state system; and
- Speed, particularly at curves.

Secondary issues in the District include young drivers, unbelted drivers, and alcohol impairment. Strategies and actions in the SHSP provide direction on proven methods to address these safety issues, which can be applied in the RVTPO planning area. Programs and projects that advance SHSP strategies or actions are also eligible for funding through VDOT’s Highway Safety Improvement Program (HSIP).

Federal transportation legislation requires RVTPO to adopt or define five evidence-based safety performance measures and accompanying targets. The purpose of the targets is to help VDOT, and regional planning agencies, including RVTPO, prioritize programs and projects that will reduce transportation-related fatalities and serious injuries. RVTPO adopted VDOT’s five-year objectives ([Table 1-4](#)).

*Table 1. System Performance Report*

<b>Performance Measure</b>	<b>2011-2015 Performance</b>	<b>Target Reduction</b>	<b>2013-2017 Target</b>
Number of fatalities, 5-year rolling average	16	2% reduction	15
Rate of fatalities, 5-year rolling average	0.84	1.25% reduction	0.79
Number of serious injuries, 5-year rolling average	215	5% reduction	144
Rate of serious injuries, 5-year rolling average	11.17	11.5% reduction	7.47
Number of non-motorized fatalities and non-motorized serious injuries, 5-year rolling average	18	4% reduction	16

This data was provided by VDOT. The 2016 data is not available yet for a system performance evaluation.

RVTPO is currently identifying a strategy to meet safety performance measure targets. A recommendation from Transportation for America which awarded RVTPO with a technical assistance grant was to develop and implement strategies to meet performance measure targets.

Strategies to meet safety performance measure targets are built into funding programs such as Highway Safety Improvement Program (HSIP), Smart Scale, and Regional Surface Transportation Program (RSTP). RVTPO and localities coordinate with the VDOT District Office to identify improvements eligible for funding through HSIP. HSIP includes corridor-specific and district-wide investments to deploy roadway departure countermeasures (signs, flashers, lighting, rumble strips) and traffic signal upgrades. VDOT's Smart Scale program awards points to projects for estimated reductions in fatality and serious injury crashes. The RVTPO's RSTP project rating factors include safety, and points are awarded to projects that are perceived to increase the safety and security of the transportation system. In addition, the Salem VDOT District also has the flexibility to address safety considerations, such as rumble strips or striping in coordination with resurfacing projects.

# APPENDIX A: Fiscally Constrained and Vision Project Lists

## Fiscally Constrained List of Projects

<u>#</u>	<u>UPC</u>	<u>JURISDICTION</u>	<u>PROJECT TITLE</u>	<u>PROJECT LIMITS</u>	<u>PROJECT DESCRIPTION</u>	<u>EST. COST IN YEAR OF EXPENDITURE<sup>1</sup></u>
1	107053	Bedford Co.	Rte. 24 Safety Improvements	Rte. 886 to 0.26 mi. E of Rte. 635 (RVTPO Portion is 0.4 mi. Of 1.5 mi.)	VDOT Project Pool Description: To improve safety by paving existing shoulders, installing rumble strips, and upgrading or replacing deficient guardrail.	\$432,000
2	75910	Botetourt Co.	Exit 150 Improvement Project	0.3 mi. S of U.S. 220 to 0.74 mi. N of U.S. 220	Improvements to the safety and traffic flow at the existing intersection and associated northbound movements from and to Interstate 81.VDOT Project Pool Description: improvements for safety and congestion at Exit 150; multiple improvements and changes to the interchange area are included with this project.	\$18,038,000
3	107521	Botetourt Co.	Daleville Greenway	Botetourt Center at Greenfield to Daleville Town Center	Greenway connecting Botetourt Center at Greenfield with neighborhoods and businesses along Route 220 south to the Daleville Town Center. VDOT Project Pool Description: Design and construction of a trail from the intersection of US-220 and Catawba Road to the intersection of US-220 and International Parkway.	\$595,000

<sup>1</sup> Est. Cost in Year of Expenditure refers to allocations in years 2016-2040 and does not include any money may be put toward the project outside of those years.

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4	N/A	Botetourt Co.	Exit 150 Park and Ride	In the vicinity of Exit 150 and U.S. 220	FY18 Smart Scale Application: Construct New Park and Ride facility near Exit 150 in Daleville. The facility will also include bus shelters, bicycle racks, sidewalk, and wayfinding signs.	\$9,232,329
<a href="#">A1-1</a>	<a href="#">T21491</a>	<a href="#">Botetourt Co.</a>	<a href="#">U.S. 220/ International Parkway Intersection Study and Design</a>	<a href="#">U.S. 220 at International Parkway</a>	<a href="#">Intersection improvement on U.S. 220 at International Parkway to improve the flow of people and freight into and out of the Botetourt Center at Greenfield and Ashley Plantation.</a>	<a href="#">\$300,000</a>
<a href="#">A1-8</a>	<a href="#">82226</a>	<a href="#">Botetourt Co.</a>	<a href="#">Rt. 11 over Beckner Branch (STR.03160)</a>	<a href="#">Rt. 11 at Beckner Branch</a>	<a href="#">Bridge replacement, no added capacity.</a>	<a href="#">\$3,364,000</a>
5	709	City of Roanoke	10th Street Improvements	0.018 mi. S of Fairfax Dr. to 0.038 mi. N of Andrews Rd.	Street improvements to include geometric changes and the addition of bike lanes, curb and gutter, sidewalk, storm drains and street trees. VDOT Project Pool Description: reconstruct 10th St. to 2 lanes with C&G, bike lanes, and sidewalk	\$3,459,000
6	11908	City of Roanoke	10th Street	0.38 mi. N Andrews Rd. to Williamson Rd.	Street improvements to include geometric changes and the addition of bike lanes, curb and gutter, sidewalk, storm drains and street trees. VDOT Project Pool Description: Reconstruct 10th St. to 2 lanes with C&G, sidewalk, and bike lanes	\$12,451,245
7	105439	City of Roanoke	Roanoke River Greenway	Aerial Way Dr. to Bridge Street	Construction of 1.7 miles of the Roanoke River Greenway from Aerial Way Drive to Bridge Street	\$750,000

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8	106265	City of Roanoke	Garden City Greenway Phase 2	Davenport Ave./ Ivywood St. to Riverland Rd.	8" wide multi-use trail. VDOT Project Pool Description: Design and construction of bicycle and pedestrian facilities on Garden City Boulevard.	\$246,000
9	108896	City of Roanoke	Colonial Avenue Improvements	Dogwood Ln. SW to Overland Rd. SW	Streetscape, C&G, sidewalk, drainage, bicycle accommodations. VDOT Project Pool Description: Street, bicycle and pedestrian improvements near Murray Run Greenway, Fishburn Park Elem School and VWCC. Installation of bike lanes, sidewalk to both sides of the street, improved pedestrian crossings, and intersection improvements at Overland Rd, McNeil Rd, and Winding Way Rd.	\$2,545,000
10	108908	City of Roanoke	U.S. 220 Communications and Adaptive System Project	Valley Ave/ Southern Hills Dr. SW to Clearbrook Village Ln.	There are five signalized intersections within the study area. In-Sync will monitor and prioritize the queues at each approach of each of the intersections in the system. The project will also install new cameras at all five intersections allowing VDOT to remotely access the traffic volumes and view live traffic to monitor coordination on the corridor. VDOT Project Pool Description: U.S. 220 has heavy directional traffic flow NB in the AM and SB in the PM. In-Sync will monitor and prioritize queues at each approach & prioritize to allow NB AM platoons & SB PM platoons to proceed through the corridor. Additionally, will connect the VDOT Traffic Operations Center (TOC) via Fiber Optic Connection on I-81.	\$422,500

#	UPC	JURISDICTION	PROJECT TITLE	PROJECT LIMITS	PROJECT DESCRIPTION	EST. COST IN YEAR OF EXPENDITURE <sup>1</sup>
11	109288	City of Roanoke	Edgewood Street Transit Accessibility Improvements	Windsor Ave. to Memorial Ave.	Sidewalk construction. VDOT Project Pool Description: Transit accessibility improvements on Edgewood Street in the City of Roanoke. The project would provide transit stop improvements as well as missing gap sidewalks between the bus stops at Windsor Avenue and at Westover Avenue along Edgewood Street.	\$350,811
12	110101	City of Roanoke	Tinker Creek Greenway Phase 2	Wise Avenue north to Masons Mill Park	Multi-use urban bike/ped recreational trail following the Tinker Creek stream and connecting Fallon Park, Masons Mill Park, and Roanoke's Center for Industry and Technology. VDOT Project Pool Description: The proposed extension to the existing Tinker Creek Trail would provide for a 10' wide asphalt bicycle and pedestrian shared use trail from Fallon Park, located near Wise Avenue, to Masons Mill Park. <u>Project includes two bridges over Tinker Creek at Masons Mill Park.</u>	<del>\$1,620,000</del> <u>\$3,112,826</u>

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13	111360	City of Roanoke	Franklin Road sidewalk	0.16 mi s. of Beechwood to Penarth	Sidewalk construction. FY18 Smart Scale Application: The project scope includes construction of new sidewalk along the west side of business 220, Franklin Road, from the 3100 block to the 3700 block adjacent to the 220 bypass. Improvements include sidewalk construction, improved pedestrian crosswalks, pedestrian signals, and additional drainage improvements as warranted by sidewalk construction.	\$1,313,458
14	N/A	City of Roanoke (the project is located within Roanoke city limits)	220 Expressway /Route 419 Interchange Improvement	U.S. 220 and VA 419	Preliminary engineering for interchange improvements including vehicle flow, bicycle and pedestrian improvements.	<del>\$2,646,129</del> <u>\$2,413,699</u>



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15	N/A	City of Roanoke	Valley View Boulevard Extension	I-581 to Ferncliff Avenue	Street extension to include curb, gutter, sidewalk, drainage and bike lanes.FY18 Smart Application:The Valley View Boulevard Extension project will extend Valley View Blvd approximately 1,000 feet to the west from the Valley View Blvd interchange at I-581 to a point at which potential connections to future development and the local street network can be made. The extension of Valley View Blvd is envisioned as a four-lane "boulevard" street with travel lanes separated by a raised grass median. Turn lanes will be provided as necessary. The typical section includes two travel lanes in each direction, bike lanes, curb and gutter, and sidewalk. This project will also include the construction of a new traffic signal at the southbound I-581 ramps and construction of a complex bridge structure to span Lick Run and the Lick Run Greenway.	\$76,987,692
16	T19580	City of Roanoke	Hollins Rd. and Orange Ave. Intersection Improvements	Intersection of Orange Avenue and Hollins Rd.	Addition of an EB right turn lane on Orange Ave. at Hollins Rd. and additional left turn lanes in both directions on Orange Ave., widen / add capacity to Hollins Road in both directions in the immediate vicinity of the intersection.	\$3,552,000
<a href="#">A1-2</a>	<a href="#">T21494</a>	<a href="#">City of Roanoke</a>	<a href="#">Roanoke River Greenway Bridge across Barnhardt Creek</a>	<a href="#">Roanoke River at Barnhardt Creek</a>	<a href="#">Construct a 140' greenway trail bridge across Barnhardt Creek as part of the Roanoke River Greenway.</a>	<a href="#">\$897, 770</a>

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<a href="#">A1-9</a>	<a href="#">111135</a>	<a href="#">City of Roanoke</a>	<a href="#">Flashing Yellow Arrow</a>	<a href="#">City of Roanoke various locations</a>	<a href="#">Install flashing yellow arrows at traffic signals in various locations.</a>	<a href="#">\$277,000</a>
<a href="#">A1-10</a>	<a href="#">111137</a>	<a href="#">City of Roanoke</a>	<a href="#">Rectangular Rapid Flashing Beacons</a>	<a href="#">City of Roanoke various locations</a>	<a href="#">Install rectangular rapid flashing beacons in various locations.</a>	<a href="#">\$108,000</a>
<a href="#">A1-11</a>	<a href="#">T21455</a>	<a href="#">City of Roanoke</a>	<a href="#">Installation of Pedestrian Countdown Signal on Orange Avenue</a>	<a href="#">Orange Avenue at Gainsboro Rd./Burrell St.</a>	<a href="#">Installation of Pedestrian Countdown Signal on Orange Avenue</a>	<a href="#">\$102,000</a>
17	8753	City of Salem	U.S. 460 Widening	0.028 mi. W Rte. 311 to 0.006 mi. W of Brand Ave.	Widening to 3 lanes. VDOT Project Pool Description: Improve drainage, capacity, and non-motorized trans facilities on E. Main St. from Rt. 311 to Brand Ave. by adding storm sewer, curbing, sidewalks, bike lanes, and turn lanes. A traffic signal will be added at Lynchburg Turnpike also.	\$2,912,984
18	108853	City of Salem	East Main Street/College Avenue Pedestrian Improvements	Clay St. to Thompson Memorial Blvd.	VDOT Project Pool Description: East Main Street / College Avenue Pedestrian Improvements - Sidewalk replacement, crosswalks	\$1,001,000

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19	108899	City of Salem	Roanoke Boulevard Multimodal Improvements	McDivitt Rd. to Salem City Limit	VDOT Project Pool Description: Eight-foot-wide sidewalk on the north side of Roanoke Blvd with appropriate amenities (e.g. landing pads, benches, shelters, etc.) at transit stops in front of Salem Health and Rehab, at the intersection of Hemlock Road and Roanoke Blvd, and at the Adult Care Center	\$884,881
20	<del>119837</del> <u>111371</u>	City of Salem	Downtown Salem Streetscape and Intersection Improvements	East Main St. between N. Market St. & Thompson Memorial Dr.	FY18 Smart Scale Application: Improvements to intersections, transit, turn movements, and streetscape in Downtown Salem.	<del>\$358,216</del> <u>3,629,869</u>
21	N/A	City of Salem	East Main Street Phase II	Brand Avenue to Kessler Mill Road	SS/Project Pool Combined: Improve drainage, capacity, and non-motorized trans facilities on E. Main St. from Brand Ave. to Kessler Mill Rd. by adding storm sewer, curbing, sidewalks, bike lanes, and turn lanes	\$17,028,786
22	N/A	City of Salem	East Main Street/ Downtown Salem Streetscape	Downtown Salem	Improvements to intersections, crosswalks, transit, utilities, and streetscape in Downtown Salem.	\$9,169,346

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23	N/A	City of Salem	Mason Creek Greenway	Route 460 to Roanoke River Greenway	FY18 Smart Scale Application (Mason Creek Greenway Phase 3 - 419 Multimodal Improvements): Completes the missing link between the Mason Creek Greenway and Hanging Rock Battlefield Trail, and completes missing links to neighborhoods. Improves transit stops at various locations along US 460 and increases 419 mode choice.	<del>\$3,929,720</del> <u>2,610,000</u>
24	N/A	City of Salem	Roanoke River Greenway	Rotary Park to Roanoke City Corporate Limit	Complete the greenway between Rotary Park and the Roanoke City Limit.	\$3,929,720
<u>A1-4</u>		<u>City of Salem</u>	<u>Elizabeth Greenway</u>			<u>\$1,104,400</u>
25	N/A	Multi-Jurisdictional	Ongoing Bus Replacement and Rebuild Program	Systemwide	Ongoing efforts to maintain existing regional public transportation services by replacing or rebuilding transit vehicles as needed.	\$44,298,755
26	N/A	Multi-Jurisdictional	Real-Time Information System	Systemwide	FY18 Smart Scale Application: Put in place an automatic vehicle locator system that includes a set of integrated technologies such as real-time passenger information via smartphone and the internet, automated passenger counters, digital transit service information signs in real-time.	<del>\$238,810</del> <u>1,904,000</u>
27	N/A	Multi-Jurisdictional	Transit Vehicle Expansion	Systemwide	Six (6) new vehicles in the short-term to support expansion of current public transportation network.	\$3,667,738

#	UPC	JURISDICTION	PROJECT TITLE	PROJECT LIMITS	PROJECT DESCRIPTION	EST. COST IN YEAR OF EXPENDITURE <sup>1</sup>
28	N/A	Multi-Jurisdictional	Tinker Creek Greenway Connectivity Study	Wise Avenue to Daleville Town Center	Location and feasibility study for extension of Tinker Creek Greenway from Mason Mill Park to Daleville Town Center	\$400,000
29	N/A	Multi-Jurisdictional	Tinker Creek Pedestrian Bridge	Tinker Creek Greenway to Glade Creek Greenway	Construct a bridge across Tinker Creek to connect the Tinker Creek and Glade Creek greenways.	\$1,459,500
30	N/A	Multi-Jurisdictional	Expanded Transit Vehicle Maintenance Facility	Vacant 0.68-acre lot adjacent to current administration facility on Campbell Ave SE	FY18 Smart Scale Application: construct a maintenance expansion facility on vacant 0.68-acre lot adjacent to current administration facility on Campbell Ave SE to address expanding fleet.	\$2,626,915
31	T18675	Multi-Jurisdictional	Transit Vehicle Replacements	Systemwide	Address the short-term need to replace transit vehicles to maintain fixed-route transit services in the Roanoke Valley.	\$13,622,784
32	T19607	Multi-Jurisdictional	Smart Way Vehicle Expansion	City of Roanoke to Town of Blacksburg	Purchase three (3) 40' Over-the-Road (OTR) coaches to support an express commuter connection from Virginia Tech (Blacksburg) to the Virginia Tech Carilion Research Institute in Roanoke.	\$618,000
33	T19810	Multi-Jurisdictional	Valley Metro 91/92 Vehicle Expansion	City of Roanoke to City of Salem	Provide three (3) new 40' transit vehicles to serve the insufficient capacity currently on Valley Metro routes 91/92.	\$1,700,000

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34	77305	Roanoke Co.	Rte. 116/Jae Valley Rd. over Back Creek - Bridge Replacement	0.285 mi. S Rte. 945 to 0.584 mi. S Rte. 945	VDOT Project Pool Description: Bridge Replacement - Rte. 116 over Back Creek (Ext. Str. ID 14928 - VA Str. No. 1087)	\$3,630,000
35	82193	Roanoke Co.	Rt. 220 Bridge Replacement	0.199 mi. south of Route 657 to 0.311 mi. north of Route 657	Replace bridge over Back Creek	\$10,396,000
36	91191	Roanoke Co.	Roanoke River Greenway	City of Roanoke limit to Blue Ridge Parkway	VDOT Project Pool Description: Construction of a Roanoke River Greenway Trail section from the City of Roanoke to the Blue Ridge Parkway and Virginia's Explore Park	\$1,608,000
37	94726	Roanoke Co.	Rt. 221 Bridge Replacement	0.01 mi. South of the Route 221/Route 696 Intersection to 0.01 mi North of the Route 221/Route 696 Intersection	Replace bridge over Martin's Creek	\$3,648,000
38	97171	Roanoke Co.	Roanoke River Greenway	Green Hill Park to Riverside Park	VDOT Project Pool Description: Construction of a section of the Roanoke River Greenway connecting the trail from Green Hill Park in Roanoke County to Riverside Park in the City of Salem.	\$4,542,105

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39	99542	Roanoke Co.	Exit 140 Park and Ride Reconstruction	Int. Rte. 1128 & Rte. 1150 to 0.17 mi. W of Int. Rte. 1128 & 1150	VDOT Project Pool Description: Improvements to exist. lot include add'l parking, designated bus loading area, constr. of bus shelters, & constr. of sidewalk along Rte 311.	\$1,502,079
40	107054	Roanoke Co.	Rt. 311 under I-81 Bike/Ped Improvements	NCL Salem to 0.02 Mi. N of I-81 SB Ramp	VDOT Project Pool Description: Project will construct a sidewalk extension to the Exit 140 Park and Ride in conjunction with the Park and Ride improvement project.	\$700,000
41	107055	Roanoke Co.	Williamson Road / Peters Creek Road Bike/Pedestrian Improvements	Rte. 117 to U.S. 11	VDOT Project Pool Description: Project will upgrade signals, add pedestrian push buttons and crosswalks to existing signalized intersections on Routes 11 & 117 in Roanoke County.	\$1,000,000
42	107061	Roanoke Co.	Rte. 419 Safety Improvements at Tanglewood	Rte. 220 to Rte. 867	VDOT Project Pool Description: Improve safety and congestion by upgrading signals, adding pedestrian accommodation, bike lanes, and a third lane along Rte. 419 South, toward Rte 220.	\$5,853,432
43	108882	Roanoke Co.	West Main Street Sidewalk Installation	Daugherty Rd. to Technology Dr.	VDOT Project Pool Description: West Main Street Sidewalk Installation	\$1,037,000

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44	108904	Roanoke Co.	Rte. 311 / Rte. 419 Int. Safety & Congestion Improvements	Int. Rte. 311 & 419 to Int. Rte. 311 & 419	VDOT Project Pool Description: Convert an existing signalized intersection to a roundabout. Access management for the adjacent businesses, paved shoulders for bicycle access, as well as pedestrian crosswalks within refuge islands to connect to businesses and to the Hanging Rock Battlefield Trail (Greenway)	\$1,957,006
45	108905	Roanoke Co.	Lila Dr. / Rte. 115 Intersection Safety Improvements	Lila Dr. / Plantation Rd. intersection	VDOT Project Pool Description: Install a traffic signal at Rte 115 (Plantation Rd) and Lila Dr. Pedestrian actuated signals and crosswalks. Reconstruct approximately 420' of Lila Dr and access management.	\$1,269,396
46	108906	Roanoke Co.	I-81 NB Auxiliary Lane	I-81 Exit 141 NB to I-81 MM 143 NB	VDOT Project Pool Description: Provide additional capacity between NB Exit 141 & Exit 143 & provide for safer merge movements between Exits. Incl. 12-ft aux. lane & 12-foot outside shoulder. Aux. lane will be extension of entrance ramp @ Exit 141 to extend to Exit 143 onto I-581. Mill & overlay existing travel lanes.	\$29,830,716
47	110155	Roanoke Co.	Roanoke River Greenway	Blue Ridge Parkway to Explore Park	Construct 1.7 miles of Roanoke River Greenway trail section from Highland Road through the Roanoke Valley Resource Authority property, to Explore Park.	\$1,733,750



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48	110620	Roanoke Co.	Diuguids Lane (Route 760) Bridge Replacement	0.15 mi. south of Salem City Line to the intersection with Route 639	Replace bridge over the Roanoke River	\$2,281,000
49	111066	Roanoke Co.	Route 311 Pedestrian Bridge	Route 864 to 0.2 miles North of Route 864	Construct a pedestrian bridge over Route 311 near the McAfee's Knob Appalachian Trail parking lot.	\$2,880,000
50	111317	Roanoke Co.	Williamson Road Pedestrian Improvements	Rt. 117 (Peters Creek Road) to Rt. 115 (Plantation Road)	Construct a 5' sidewalk behind the curb on the north side of Williamson Road.	\$272,000
51	111373	Roanoke County	I-81 Southbound Auxiliary Lane between Exit 143 and 141	Exit 143 to Exit 141	Construct auxiliary lane on I-81 SB from Exit 143 to Exit 141	\$32,168,111
52	103607 98220	Roanoke Co.	Plantation Road Streetscape Improvements	I-81 Exit 146 to Williamson Rd./U.S. 11	VDOT Project Pool Description: Streetscaping, bicycle and pedestrian improvements along Plantation Road (Rt. 115) in Roanoke County between I-81 and Williamson Road (Rt. 11).	\$611,495
53	111407	Roanoke Co.	Route 419 and Route 221 Adaptive Traffic Control	Springwood Park to McVitty Rd. to Carriage Ln. to Valley Dr.	FY18 Smart Scale Application: This project will add Adaptive Traffic Control systems to seven existing traffic signals on Route 419, and to four existing traffic signals on Route 221, in the Cave Spring and Oak Grove areas of Roanoke County.	\$663,457

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54	N/A	Multi-Jurisdictional	Other I-81 Auxiliary Lane Projects	Exit 140 to Exit 150	Expand the capacity of I-81 by adding auxiliary lanes between exits.	\$29,091,632
55	111366	Roanoke Co.	Plantation Road Bicycle, Pedestrian and Streetscape Phase II	Walrond Drive to Gander Way	FY18 Smart Scale Application: Continue the Plantation Road Project by constructing sidewalk, curb, gutter, drainage systems and landscaping between Walrond Drive and Gander Way, on the west side of Plantation Road. Add pedestrian signals and crosswalks at the Gander Way signal.	\$1,752,000
56	N/A	Roanoke Co.	Roanoke River Greenway	Through Explore Park to Rutrough Road	FY18 Smart Scale Application: Construct 1.8 miles of a paved, 10-foot-wide, shared use path for bicyclists and pedestrians through Explore Park to Rutrough Rd.	<del>\$4,274,439</del> <u>\$3,020,308</u>
57	15187; 15188	Roanoke Co.	Rte. 1662/McVitty Rd. & Rte. 1663/Old Cave Spring Rd. Improvements	McVitty Road to Old Cave Spring Road	VDOT Project Pool Description: Increasing the pavement width, shoulder width, and adding turn lanes to improve the safety of the roadway.	\$29,473,906
<u>A1-3</u>	<u>T21499</u> <u>T21229</u> <u>113144</u>	<u>Roanoke Co.</u>	<u>Starkey Road/Buck Mountain Road Intersection Improvements</u>	<u>Starkey Road at Buck Mountain Road</u>	<u>Convert the unsignalized intersection to a single lane roundabout with bicycle and pedestrian accommodations.</u>	<u>\$2,098,115</u>
<u>A1-5</u>	<u>T21502</u>	<u>Roanoke Co.</u>	<u>I-581 Exit 2 Interchange Study</u>	<u>Peters Creek Road from Thirlane Road to Valley-pointe Pkwy.</u>	<u>Reconstruct the I-581/Peters Creek Road interchange to improve turning movements and access to Valleypointe Pkwy. And Thirlane Rd.</u>	<u>\$150,000</u>

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<a href="#">A1-7</a>	<a href="#">T21366</a>	<a href="#">Roanoke Co.</a>	<a href="#">Roanoke River Greenway - Blue Ridge Parkway Crossing along Highland Road</a>	<a href="#">Blue Ridge Parkway and Highland Road</a>	<a href="#">Construction of 0.30 miles of Roanoke River Greenway underneath the Blue Ridge Parkway, connecting bicyclists and pedestrians safely to other funded sections of the Roanoke River Greenway.</a>	<a href="#">\$366,606</a>
<a href="#">A1-13</a>	<a href="#">T21464</a>	<a href="#">Roanoke Co.</a>	<a href="#">Pedestrian Improvements on Rt. 11 (Williamson Rd.)</a>	<a href="#">Clubhouse Dr. to 0.2 miles South of Greenway Drive</a>	<a href="#">Pedestrian improvements along Williamson Road.</a>	<a href="#">\$750,000</a>
<a href="#">A1-14</a>	<a href="#">T21583</a>	<a href="#">Roanoke Co.</a>	<a href="#">I-81 Exit 137 SB Safety Improvements</a>	<a href="#">I-81 Exit 137 SB Ramp</a>	<a href="#">Safety improvements to the ramp.</a>	<a href="#">\$1,500,000</a>
58	93160	Town of Vinton	Walnut Ave. Intersection Improvement at 8th Street	Walnut Ave. & 8th St.	VDOT Project Pool Description: intersection improvement	\$2,767,813
59	N/A	Town of Vinton	Glade Creek Greenway, Phase II	Walnut Ave. to Gus Nicks Blvd.	To provide a 10-foot wide, 0.58 mi. paved trail which will connect to Glade Creek Phase I.	\$597,026
60	N/A	Town of Vinton	Walnut Avenue Improvements Project	0.47-mile segment of Walnut Ave, from 5th St, to W. Lee Ave	FY18 Smart Scale Application: Install bicycle and pedestrian improvements along a 0.47-mile segment of Walnut Ave, from 5th St, to W. Lee Ave. Project includes. sidewalk (8900 LF), curb and gutter (1790 LF), lighting (3 new poles), signage (6 signs), CG-12 ADA ramps (7), and pavement marking for crosswalks (120 LF) and bike lanes (striping - 1660 LF).	\$3,663,585

#	UPC	JURISDICTION	PROJECT TITLE	PROJECT LIMITS	PROJECT DESCRIPTION	EST. COST IN YEAR OF EXPENDITURE <sup>1</sup>
<u>A1-6</u>	<u>111649</u>	<u>Town of Vinton</u>	<u>Walnut Avenue Bicycle and Pedestrian Accommodations (5th Street to City/Town limit)</u>	<u>5<sup>th</sup> Street to City/Town limit</u>	<u>Construct a sidewalk and bike lanes on Walnut Avenue between 5<sup>th</sup> Street and the City of Roanoke - Town of Vinton limit.</u>	<u>\$1,446,282</u>
<u>A1-12</u>	<u>T21460</u>	<u>Town of Vinton</u>	<u>Hardy Road/ Dillon Woods Crosswalk</u>	<u>Hardy Road at Dillon Road</u>	<u>Install a pedestrian crosswalk on Hardy Road at Dillon Road.</u>	<u>\$183,000</u>
				<b>TOTAL:</b>		<b><del>\$421,692,266</del> <u>\$438,109,828</u></b>

The total constrained amount for new construction (~~\$421,692,266~~\$438,109,828) is lower than the projected available funding as initially provided by VDOT of \$485,474,656. The difference is the actual amount that has been allocated for the FY2016-2021 period is significantly less than the projected amount.

### Vision List of Projects

<u>DESIRED TIME-FRAME</u>	<u>JURISDICTION</u>	<u>PROJECT TITLE</u>	<u>PROJECT LIMITS</u>	<u>PROJECT DESCRIPTION</u>	<u>PROJECT COST (2016\$)</u>
<u>S</u>	<u>Botetourt County</u>	<u>International Parkway/Rt. 220 intersection improvements</u>	<u>Rt. 220 at International Parkway</u>	<u>??</u>	<u>??</u>
<u>S</u>	<u>Botetourt County</u>	<u>Catawba Road/Rt. 220 intersection improvements</u>	<u>Rt. 220 at Catawba Road</u>	<u>??</u>	<u>??</u>
<u>S</u>	<u>Botetourt County</u>	<u>Glebe Road alignment improvements and bike/ped accommodations</u>	<u>??</u>	<u>??</u>	<u>??</u>
<u>S</u>	<u>Botetourt County</u>	<u>Rt. 220 at the Super 8/Howard Johnson intersection improvements</u>	<u>Rt. 220 - north of I-81 at Super 8/Howard Johnson</u>	<u>??</u>	<u>??</u>
<u>S</u>	<u>City of Roanoke</u>	<u>13<sup>th</sup> St. SE Improvements</u>	<u>Church Avenue to Norfolk Avenue</u>	<u>Street, pedestrian and bicycle improvements.</u>	<u>??</u>
<u>S</u>	<u>City of Roanoke</u>	<u>Aviation Dr. / Valley View Blvd. Pedestrian Improvements</u>	<u>Roanoke-Blacksburg Regional Airport to 4800 Block of Valley View Blvd./Chick-Fil-A</u>	<u>Construct a sidewalk on the west side of Aviation Drive / Valley View Boulevard from the Airport to the 4800 Block of Valley View Boulevard.</u>	<u>\$2,400,000</u>

<u>DESIRED TIME-FRAME</u>	<u>JURISDICTION</u>	<u>PROJECT TITLE</u>	<u>PROJECT LIMITS</u>	<u>PROJECT DESCRIPTION</u>	<u>PROJECT COST (2016\$)</u>
<u>S</u>	<u>City of Roanoke</u>	<u>Brambleton Avenue (Rt. 221) Bicycle/ Pedestrian Improvements</u>	<u>2300 Block of Brambleton Avenue to Overland Road</u>	<u>Construct bike lanes and a sidewalk on both sides of Brambleton Avenue from Carilion Clinic traffic signal (former Shenandoah Building) to Overland Road.</u>	<u>\$4,300,000</u>
<u>S</u>	<u>City of Roanoke</u>	<u>Orange Avenue at King Street Intersection Improvements</u>	<u>Orange Avenue at King Street</u>	<u>Extend westbound Orange Avenue left turn lane at King Street and provide pedestrian and transit accommodations.</u>	<u>??</u>
<u>S to M</u>	<u>City of Roanoke</u>	<u>Main Street Bridge Replacement and improvements Project</u>	<u>Intersection of Ferdinand Ave. SW/Elm Ave. to Winona Ave. SW/Main St. SW</u>	<u>Replacement of Main Street bridge with bike lanes and construction of a roundabout at Ferdinand Ave. SW</u>	<u>\$22 million</u>
S to M	City of Roanoke	Campbell Avenue Bicycle and Pedestrian Improvements	Tinker Creek to Williamson Road (Downtown)	Streetscape improvements would consist of sidewalk, curb and gutter, street trees, and milling and resurfacing the existing roadway and any related stormwater improvements.	\$3,300,000
M	City of Roanoke	Williamson Road	Orange Ave. to Angell St.	Road diet & streetscape improvements	\$9,500,000
M	City of Roanoke	Memorial Avenue	Grandin Rd. to Denniston Ave.	Streetscape improvements	\$1,500,000
M	City of Roanoke	Lick Run Greenway Phase 4	Lewiston Road (Countryside Park) to Peters Creek Road	Multi-use bicycle & pedestrian trail	\$3,000,000

<u>DESIRED TIME-FRAME</u>	<u>JURISDICTION</u>	<u>PROJECT TITLE</u>	<u>PROJECT LIMITS</u>	<u>PROJECT DESCRIPTION</u>	<u>PROJECT COST (2016\$)</u>
M	City of Roanoke	Liberty Road	Burrell St. to Hollins Rd.	Add turn lanes, C&G, sidewalk, bike lanes, drainage, reconstruct signal	\$7,000,000
M	City of Roanoke	King Street	Gus Nicks Blvd. to Orange Ave.	Add turn lanes, C&G, sidewalk, bike lanes, drainage, reconstruct signal	\$7,500,000
M	City of Roanoke	Jefferson Street	Elm Ave. to McClanahan Rd.	Road diet & streetscape improvements	\$13,000,000
M to L	City of Roanoke	Hollins Road	Orange Ave. to Liberty Rd.	Widening to 4 lanes w/bicycle lanes	\$6,100,000
	City of Roanoke	Hershberger Road	Cove Rd. to Peters Creek Rd.	Add turn lanes, C&G, sidewalk, bike lanes, drainage	\$6,900,000
L	City of Roanoke	Orange Avenue	0.006 mi. W Int. 11th St. NE to 0.232 mi. E Int. Gus W. Nicks Blvd. NW	Widening to six lanes, reconstruct traffic signals, curb, gutter, sidewalk and drainage improvements	\$49,519,000
M	City of Roanoke	Cove Road	Hershberger Rd. to Peters Creek Rd.	Add turn lanes, C&G, sidewalk, bike lanes, drainage	\$7,500,000
M	City of Roanoke	Colonial Avenue	Brandon Ave. to Overland	Streetscape, C&G, sidewalk, widen 1-ln., drainage	\$5,300,000
M	City of Roanoke	Church Ave	Jefferson St. to 5th St.	Streetscape improvements	\$2,800,000

<u>DESIRED TIME-FRAME</u>	<u>JURISDICTION</u>	<u>PROJECT TITLE</u>	<u>PROJECT LIMITS</u>	<u>PROJECT DESCRIPTION</u>	<u>PROJECT COST (2016\$)</u>
M to L	City of Roanoke	9th St SE	Bridge over Norfolk Southern RR to Riverland Road	Streetscape, pedestrian improvements, road diet	\$7,300,000
L	City of Roanoke	13th St./ Hollins Road	Jamison Ave. to 0.08 mi. N of Int. Orange Ave.	Bridge over RR tracks, streetscape, pedestrian and bicycle improvements, drainage	\$63,266,000
S to M	City of Roanoke / GRTC	Downtown Roanoke Intermodal Station	Roanoke AMTRAK platform	Multimodal connections to AMTRAK and passenger waiting area.	\$10,000,000
<u>S</u>	<u>City of Salem</u>	<u>4<sup>th</sup> Street Signal Coordination</u>	<u>Union Street to College Avenue</u>	<u>Coordinate four traffic signals along the 4<sup>th</sup> Street corridor.</u>	<u>??</u>
	City of Salem	Rt. 311 / Thompson Memorial Improvements	Rt. 311 / Thompson Memorial Dr.		\$5,000,000
M	City of Salem	Braeburn Drive – Transit/Bike/Ped Improvements	Rt. 419 to Keagy Rd.	Improvements to bus stops, pedestrian and biking accommodations.	\$500,000
M	City of Salem	Apperson Drive	Rt. 419 to Colorado St.	Streetscape/Multimodal Improvements.	\$300,000
S to M	Multi-Jurisdictional	I-81 Auxiliary Lanes	Exit 143 to Exit 150 NB & SB Exit 140 to Exit 141 NB & SB	Added capacity on I-81	\$84,486,697



<u>DESIRED TIME-FRAME</u>	<u>JURISDICTION</u>	<u>PROJECT TITLE</u>	<u>PROJECT LIMITS</u>	<u>PROJECT DESCRIPTION</u>	<u>PROJECT COST (2016\$)</u>
S to M	Multi-Jurisdictional	Bus Stop Accessibility Improvements	Systemwide	Curb ramps, sidewalk connections, accessible landing pads, bus shelters, benches, pedestrian refuge medians, crosswalks, signage or other improvements will be provided as needed by the specific bus stop locations.	\$1,000,000
S to M	Roanoke Co.	U.S. 221/Brambleton Ave. pedestrian improvements	Roanoke City Limits to Electric Rd.	Construct sidewalk northbound and southbound along U.S. 221, from Roanoke City limits to Electric Road. Install crosswalks at Secondary street crossings, and pedestrian signals at signalized intersections.	\$2,000,000
M to L	Roanoke Co.	U.S. 220 Improvements	Electric Rd. to Franklin County Limits	Improve travel lanes, shoulders and turn lanes at various locations from Rte. 419 to Franklin County.	\$136,000,000
M	Roanoke Co.	U.S. 11/Williamson Rd. Urban 2 or 4-lanes & Bike/Ped Improvements	Peters Creek Rd. to Roanoke City Limit	Improve U.S. 11 to either Urban 4-lane, or Urban 2-lane with turn lanes, and construct bicycle and pedestrian improvements, from Peters Creek Road to Roanoke City limits.	\$24,000,000
M to L	Roanoke Co.	U.S. 11/U.S. 460 Corridor Study	N/A	U.S. 11/U.S. 460 Corridor Study - Implement recommendations of completed VDOT study.	\$5,000,000
M to L	Roanoke Co.	Rte. 904/Starkey Rd. Improvements	Rte. 907/Starkey Rd.	Improve Rte. 904 to either Urban 4-lane or Urban 2-lane with turn lanes, and construct bicycle and pedestrian improvements, from existing 5-lane section of Starkey Rd to Merriman Rd.	\$12,000,000

<u>DESIRED TIME-FRAME</u>	<u>JURISDICTION</u>	<u>PROJECT TITLE</u>	<u>PROJECT LIMITS</u>	<u>PROJECT DESCRIPTION</u>	<u>PROJECT COST (2016\$)</u>
M to L	Roanoke Co.	Rte. 687/Penn Forest Rd. - Bicycle and Pedestrian Improvements	Colonial Ave. to Starkey Rd.	Construct bicycle and pedestrian accommodations to Rt 687, from Colonial Av to Starkey Rd.	\$1,000,000
M	Roanoke Co.	Rte. 682/Garst Mill Rd. - Bicycle and Pedestrian Improvements	Brambleton Ave. to Grandin Rd.	Construct bicycle and pedestrian accommodations to Rte. 682, from Brambleton Av to Grandin Rd / Roanoke City limits.	\$2,500,000
M to L	Roanoke Co.	Rte. 679/Buck Mountain Rd. - urban 2-lane with turn lanes, bicycle and pedestrian improvements	Starkey Rd. to U.S. 220	Improve Rte. 679 to Urban 2-lane with turn lanes, and construct bicycle and pedestrian improvements, from Starkey Rd to U.S. 220.	\$20,000,000
M to L	Roanoke Co.	Rte. 634/Hardy Rd. - urban 4-lane or 2-lane with turn lanes, bicycle and pedestrian improvements	Vinton Town Limits to Bedford County Limits	Improve Rte. 634 to Urban 4-lane or Urban 2-lane with turn lanes, and construct bicycle and pedestrian improvements, from Vinton to Bedford County.	\$10,000,000
M	Roanoke Co.	Rte. 625/Hershberger Rd. - Urban 2-lane with turn lanes, bicycle and pedestrian accommodations	Roanoke City Limits to Plantation Rd.	Improve Rte. 625 to Urban 2-lane with turn lanes, and construct bicycle and pedestrian accommodations, from Plantation Road to Roanoke City limits.	\$1,200,000
M to L	Roanoke Co.	Route 116/Jae Valley Rd. Improvements	Route 116/Jae Valley Rd.	Improve Rte. 116 to Rural 2-lane with shoulder improvements, from Mt Pleasant to Franklin County.	\$23,000,000

<u>DESIRED TIME-FRAME</u>	<u>JURISDICTION</u>	<u>PROJECT TITLE</u>	<u>PROJECT LIMITS</u>	<u>PROJECT DESCRIPTION</u>	<u>PROJECT COST (2016\$)</u>
S to M	Roanoke Co.	Route 115/Plantation Road urban 2 or 4-lane with turn lanes, bike/ped accommodations	Williamson Rd. to Roanoke City Limits	Improve Rte. 115 to either Urban 4-lane, or Urban 2-lane with turn lanes, and construct bicycle and pedestrian accommodations from Williamson Rd to Roanoke City limits.	\$32,850,000
S to M	Roanoke Co.	West Main Street/Greenway Connection	West Main Street to Roanoke River Greenway	Construct greenway connection for bicycles and pedestrians, from Roanoke River Greenway to West Main Street sidewalks.	\$3,000,000
S to M	Roanoke Co.	Roanoke River Greenway	Green Hill Park to Montgomery County Limits	Construct Roanoke River Greenway from Green Hill Park to Montgomery County limits.	\$15,000,000
L	Roanoke Co.	I-73 Partial PE Only	Partial Preliminary Engineering for I-73 in Roanoke County	Partial Preliminary Engineering for I-73 in Roanoke County	\$42,459,000
M	Roanoke Co.	I-581 & Peters Creek Rd. Interchange Improvements (enhancing access to Valleypointe Dr.)	I-581 at Peters Creek Rd.	Reconstruct interstate interchange to improve turning movements and access to Valleypointe Blvd, Thirlane Rd (Roanoke City), and Thirlane Rd (Roanoke County).	\$45,000,000
M to L	Roanoke Co.	Friendship Lane/Carvins Creek Bridge Replacement	Friendship Lane over Carvins Creek	Construct bicycle and pedestrian bridge over Carvins Creek at terminus of Friendship Lane.	\$100,000

<u>DESIRED TIME-FRAME</u>	<u>JURISDICTION</u>	<u>PROJECT TITLE</u>	<u>PROJECT LIMITS</u>	<u>PROJECT DESCRIPTION</u>	<u>PROJECT COST (2016\$)</u>
S to M	Roanoke Co.	Explore Park Access - Secondary Access Points from Rutrough Rd. and Road Circulation Improvements	Various locations at Explore Park	Improve secondary system access points from Rutrough Road.	\$5,884,230
M to L	Roanoke Co.	Explore Park Access - Hardy Rd./Blue Ridge Parkway Connection	Hardy Rd at Blue Ridge Parkway	Construct interchange at Hardy Rd and Blue Ridge Parkway to improve access to Explore Park.	\$4,885,000
M to L	Roanoke Co.	Develop U.S. 460/Challenger Ave. to Urban 6 lanes (continuation of Roanoke City project - from Roanoke City Limits to Botetourt Co.)	Roanoke City Limits to Botetourt County Limits	Improve Rt 460 to Urban 6-lane, with bicycle and pedestrian accommodations from Roanoke City to Botetourt County.	\$36,000,000
M to L	Roanoke Co.	Rt. 419/Ogden Rd. to Rt. 221 – Urban 6 lane w/bike, pedestrian	Ogden Rd. to Rt. 221	Improve Rte. 419 to Urban 6-lane, with bicycle and pedestrian accommodations.	\$45,500,000
S to M	Roanoke Co.	Rt. 11, Peters Creek to Botetourt Co., Bike/Pedestrian Improvements	Peters Creek Rd. to Botetourt County Limits	Construct bicycle and pedestrian accommodations on U.S. 11, from Peters Creek Rd to Botetourt County.	\$3,800,000
S-M	City of Roanoke / Roanoke County	220 Expressway /Route 419 Interchange Improvement	U.S. 220 and VA 419	Construction of interchange improvements including vehicle flow, bicycle and pedestrian improvements.	Unknown

<u>DESIRED TIME-FRAME</u>	<u>JURISDICTION</u>	<u>PROJECT TITLE</u>	<u>PROJECT LIMITS</u>	<u>PROJECT DESCRIPTION</u>	<u>PROJECT COST (2016\$)</u>
M	Roanoke Co. / GRTC	Roanoke County Transfer Facilities (various)	County-wide	Construct new transit transfer facilities in various locations.	\$900,000
M	Multi-Jurisdictional	Interchange Lighting at I-81 Exits 137-150	I-81 Exit 137-Exit 150	To provide interchange lighting on I-81 at exits 137, 140, 141, 143, 146, and 150.	\$8,400,000
	Multi-Jurisdictional	Tinker Creek Greenway	Masons Mill to Greenfield		\$10,000,000
	Town of Vinton	Washington Avenue Pedestrian Crossing	S. Pollard St., 200 & 700 blocks of Washington Ave.	Pedestrian crossing to connect neighborhood to downtown & commercial areas along Washington Ave	Unknown
M	Town of Vinton	Walnut Avenue and 8 <sup>th</sup> Street Intersection	Walnut Avenue and 8 <sup>th</sup> Street		\$2,300,000
M	Town of Vinton	Virginia Ave./Rte. 24 bicycle improvements	ECL Roanoke City to Chestnut St.		Unknown
M	Town of Vinton	Hardy Road SRTS Project (to include new signalized intersection)	W.E. Cundiff Elementary School	Pedestrian crossing to connect neighborhood to school & Wolf Creek Greenway	\$300,000
ANY	Town of Vinton	Glade Creek Greenway, Phase III	Gus Nicks Blvd. to Vinyard Park		\$400,000
M	Town of Vinton	Comprehensive Traffic Intersection Improvements	Major Corridors: Washington and VA Ave., Hardy Rd., & Pollard St.	Re-evaluation to upgrade 11 traffic signals	\$2,800,000



Although some vision list projects do not have an estimated cost, the sum of those that do is \$791,049,927TBD without inflation.