



# **CONNECT CENTRAL VIRGINIA 2045**

**THE REGIONAL  
TRANSPORTATION PLAN  
FOR CENTRAL VIRGINIA**

**Adopted September 16, 2020  
Amended March 17, 2022**





## **RESOLUTION ADOPTING THE CONNECT CENTRAL VIRGINIA 2045 LONG-RANGE TRANSPORTATION PLAN**

**Whereas** the Central Virginia Metropolitan Planning Organization (now CVTPO) adopted the Central Virginia Long-Range Transportation Plan, Year 2040, on October 15, 2015;

**Whereas** the CVTPO is federally mandated to update its long-range transportation plan every five years;

**Whereas** the Connect Central Virginia 2045 Plan provides a blueprint for a transportation system that is vital to Central Virginia's growth and quality of life;

**Whereas** Connect Central Virginia 2045 includes a regional multi-modal transportation vision, guiding principles and goals as well as a set of transportation projects to advance the growth and quality of life for Central Virginians; and

**Whereas** Connect Central Virginia 2045 was developed in conjunction with an extensive public involvement effort, consideration of financial constraints, environmental, socio-economic, and economic impacts, and consideration of the transportation and land use concerns of local, state, and federal governments; now, therefore, be it

**Resolved**, that the Central Virginia Transportation Planning Organization does hereby adopt the Connect Central Virginia 2045 Long-Range Transportation Plan.

Approved this 17<sup>th</sup> day of September 2020.

ATTESTED BY:

Gary R. Christie, Secretary  
Central Virginia Transportation  
Planning Organization

CERTIFIED BY:

Jon Hardie, Chair  
Central Virginia Transportation  
Planning Organization





**RESOLUTION ADOPTING THE  
CONSTRAINED LONG RANGE PLAN (CLRP) and the  
CONNECT CENTRAL VIRGINIA 2045  
LONG-RANGE TRANSPORTATION PLAN AMENDMENT**

**Whereas** the Central Virginia Transportation Planning Organization (CVTPO) adopted the Connection Central Virginia 2045 Long-Range Transportation Plan (LRTP), on September 17, 2020; and

**Whereas** the Connect Central Virginia 2045 Plan was developed in conjunction with an extensive public involvement effort and provides a blueprint for a transportation system that is vital to Central Virginia's growth and quality of life; and

**Whereas** the CVTPO is federally mandated to include within the LRTP a list of transportation projects with cost estimates that stay within anticipated available funding; and

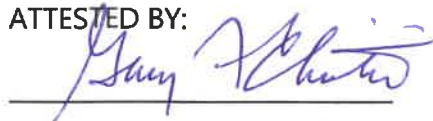
**Whereas** the CVTPO executed a comprehensive project and budget evaluation methodology to derive the CVTPO Constrained Long Range Plan (CLRP); and

**Whereas** the Connect Central Virginia 2045 Plan has been adjusted to adequately reflect the constrained project list throughout the document; now, therefore, be it

**Resolved**, that the Central Virginia Transportation Planning Organization does hereby adopt the 2045 Constrained Long Range Plan (CLRP) and the amended Connect Central Virginia 2045 Long-Range Transportation Plan.

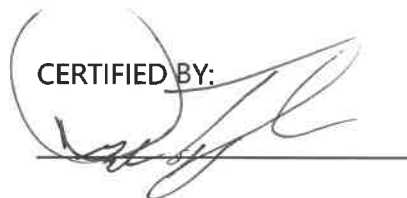
Approved this 17<sup>th</sup> day of March 2022.

ATTESTED BY:



**Gary F. Christie**, *Secretary*  
Central Virginia Transportation  
Planning Organization

CERTIFIED BY:



**Dwayne Tuggle**, *Chair*  
Central Virginia Transportation  
Planning Organization

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# EXECUTIVE SUMMARY

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Connect Central Virginia 2045 offers a unified transportation vision for the Central Virginia region by merging three major regional planning efforts: the 2045 Long Range Transportation Plan (LRTP), the Lynchburg Connectivity Study, and the Region 2000 Rural Long Range Transportation Plan. This document coordinates the insights and recommendations of all three planning efforts, and ultimately serves as the Central Virginia Transportation Planning Organization's (CVTPO) Long Range Transportation Plan (LRTP).

The 2045 process included a detailed transportation project evaluation process, designed to identify the most cost-effective solutions to the region's transportation needs. A set of 2045 goals and performance measures served as the scoring framework for this process. The result is a list of regional priorities that can feed into future state funding applications for the Central Virginia Region. The Rural Transportation Programming (RTP) element addresses transportation considerations outside of the TPO (urban) area, whereas the Comprehensive Economic Development Strategies (CEDS) element replaces the former Lynchburg Connectivity Study and presents recommendations for meeting economic development themes.

With these various elements, Connect Central Virginia 2045 transcends each of the original three plans, creating a resource that is greater than the sum of its parts. The main focus, the CVTPO's LRTP, is thus more effective at serving its function as the Metropolitan Area's transportation plan. This approach also merges regional goals into a consolidated vision that includes five goals:

- » **Economy:** Retain and increase business and employment opportunities.
- » **Safety:** Provide a safe and secure transportation system.
- » **Mobility and Accessibility:** Provide a transportation system that facilitates the efficient movement of people and goods.
- » **Community and Nature:** Improve the quality of life and protect the environment.
- » **Efficiency:** Preserve the existing transportation system and promote efficient system management.



## CENTRAL VIRGINIA TPO

The Central Virginia Transportation Planning Organization (CVTPO) is a federally mandated organization representing the transportation interests for the City of Lynchburg, the Town of Amherst, and urbanized portions of Amherst County, Bedford County, and Campbell County. It is one of 342 MPOs that were created by the U.S. Congress through the Federal-Aid Highway Act of 1962 to ensure that existing and future expenditures of governmental funds for transportation projects and programs are based on a continuing, cooperative, and comprehensive (“3-C”) planning process. All federal funding for transportation projects and programs in these urbanized areas and surrounding counties are channeled through the planning process implemented by the TPO.

CVTPO, like other MPOs, is charged with the creation of two primary documents: the Transportation Improvement Program (TIP), which budgets for transportation projects to be implemented over a 5-year period, and the Long Range Transportation Plan (L RTP), which is the focus of this document.

## LONG RANGE TRANSPORTATION PLANS

One of the recurrent responsibilities of the CVTPO is the maintenance of an L RTP. This document is a federally mandated plan that outlines the region’s priority transportation improvements for the ensuing decades. For the MPO area, also called the urbanized area, or Metropolitan Planning Area (MPA), the L RTP is a fundamental and critical document that unlocks federal funding for the region’s transportation investments. Without the L RTP, these federal funds would be unavailable, causing most transportation projects to be too expensive for local or even state coffers.

## A CONSTRAINED PLAN

The L RTP is a constrained plan, meaning that the selected project costs are for a budget based on anticipated transportation funding available to the area over the next two decades. The TPO calculates the cost of transportation improvements and lists those projects that fit within the budget of anticipated funding. Any projects that cannot fit in the long-range budget are moved to an unconstrained Vision List. Review **Chapter VIII** for the constrained list of projects, referred to as the Constrained Long Range Plan (CLRP).

## A COLLECTIVE TRANSPORTATION VISION

The L RTP sets a collective vision for the region’s future transportation system, then identifies projects that are intended to achieve regional goals and objectives. Federal Code requires that the plan consider all modes of transportation, including private vehicles, public transit, biking, walking, and more. L RTPs can also address issues such as bridge maintenance and air travel. Per federal mandate, the L RTP must be updated every five years. This document is the five-year update for the horizon year 2045.

## THE 2040 LONG-RANGE TRANSPORTATION PLAN

The last update of the L RTP was published in 2015 and planned for transportation projects and programs through the year 2040. One of the major goals of that update was to align the TPO with emerging federal and state government programs that emphasized transportation performance standards to select transportation projects. Working with the public and key stakeholders in the region, the TPO created an analytical framework to prioritize transportation improvements based on their consistency with the TPO’s goals, as well as federal and state policies. This initiative not only launched the TPO’s foray into performance-based planning, but also set the region up to compete effectively in the state’s SMART SCALE transportation funding program. Refer to **Chapter VI** for more information on SMART SCALE and other considerations.





# CONNECT CENTRAL VIRGINIA 2045

## THE 2045 LRTP

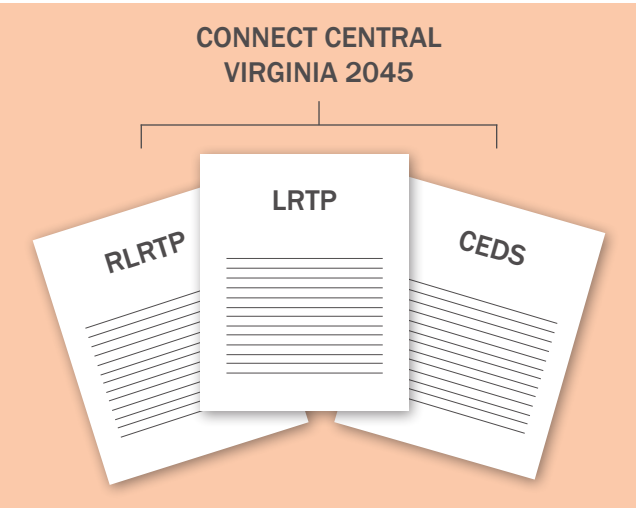
In the 2045 update of the LRTP, CVTPO has built on successful elements of the previous plan, then introduced various new features that are intended to address new challenges faced by the region and Commonwealth. It updates the region’s goals and performance measures to better align with federal guidelines and state processes that score projects for potential funding. It also offers a renewed focus on project implementation that is intended to increase the success of the TPO in securing state and federal transportation funds. To achieve this goal, the process developed an evaluation approach that mimics state funding programs, pairs projects with potential funding sources, and suggests next steps for preparing and advancing projects for funding applications.

## LYNCHBURG CONNECTIVITY STUDY

The Lynchburg Connectivity Study, originally adopted in 2017, addresses the goal of strengthening the Lynchburg regional economy by enhancing the flows of people, goods, and information that connect the region with national and global markets. It offers a description of the current role of connectivity in supporting the region’s economy, and subsequently identifies and assesses opportunities for improving the region’s connection points.

**Chapter II** and **Chapter VIII** are bridges between the original Lynchburg Connectivity Study and the LRTP. These elements of Connect Central Virginia 2045 illustrate how the region can implement goals, objectives, and strategies that arose from

Figure 1: Diagram of the structure of this document



the Connectivity Study. This update supersedes the Connectivity Study and thus ties into the region’s Comprehensive Economic Development Strategies (CEDS) plan, which used the Connectivity Study as its transportation element.

## THE 2040 RURAL LONG RANGE TRANSPORTATION PLAN

Rural Transportation Programs can greatly influence urbanized areas, as rural and metropolitan areas are intrinsically linked. In the effort to consider these linkages more fully, Connect Central Virginia 2045 incorporates elements of the recently approved Rural Long Range Transportation Plan. Most notably, the Vision List of projects includes a category of rural recommendations that could directly influence the TPO. The Vision List also recommends joint rural-urban studies. Connect Central Virginia 2045 is intended to lay the groundwork for a full integration of TPO and Rural Long Range Plans for the 2050 update.

## Connect Central Virginia 2045 Planning Process





## CONNECT CENTRAL VIRGINIA CONSULTANT TEAM

CVTPO secured the consulting services of EPR, P.C. to develop the 2045 LRTP. Kimley-Horn was the subconsultant and provided modeling services with the travel demand model. EDR Group served as economic development consultants on the team. This document refers to the consulting firms by name or by simply denoting them as the “consultants.”

## 2045 PROJECT SUMMARY

Refer to **Chapter VIII** for the full list of projects and Connect Central Virginia 2045 recommendations. Below is a summary of projects, including:

- » CEDS recommendations from the subsumed Lynchburg Connectivity Study
- » Rural projects from the 2040 RL RTP
- » The TPO Project List
  - › Constrained Long Range Plan (CLRP)
  - › High-ranking TPO projects that can rotate into the CLRP when more is known about constrained funding

## CEDS RECOMMENDATIONS

Connect Central Virginia 2045 incorporates a series of strategies and actions that address regional connectivity and directly influence the region’s desirability to skilled workers, businesses, and future residents. Themes and strategy areas include the following. **Chapter VIII** details recommendations that support these strategies and themes.

### Connectivity Themes

- » Labor Market & Intra-Regional Connectivity
- » Labor Market & Inter-Regional Connectivity
- » Digital Connectivity

### Supporting Strategy Area

- » Placemaking
- » Transportation Bottlenecks
- » Transit and Travel Demand Management (TDM)
- » Intercity Passenger Rail
- » Air Service Development
- » Access on Key Highway Corridors
- » Cargo-Oriented Development
- » Broadband Coverage





## **Notable Features of this Plan**

In preparation for this plan, the EPR, P.C. consulting team identified common limitations of how LRTPs function under the federal framework of guidelines. This discussion revealed opportunities to design new approaches to bring greater value to the TPO area and even the surrounding rural region. Below are some of the features and innovations found in this plan:

### **Interconnectedness**

Rather than assessing the benefits of individual projects in an isolated manner, proposed projects were combined into scenarios, tested as a system, and compared with other project groupings through a method of performance measure analysis.

### **Detail and Guidance on Projects**

Since Virginia's funding programs now require more detailed project descriptions and accurate cost estimates, the 2045 plan offers an expanded description of all recommended projects. This differs from past LRTP project descriptions, which have been far less detailed.

### **Functional Vision Lists**

Since the Vision List projects can now qualify for funding under Virginia's SMART SCALE process, the 2045 Plan organizes these projects into meaningful categories and offers guidance for TPO officials on next steps, maintenance of the plan, cost estimates, ties to the Unified Planning Work Program (UPWP) and other useful direction. Refer to Chapter VIII.

### **Public Engagement**

Public engagement is a common challenge for Long Range Planning Processes. For 2045, the process included new approaches, such as public intercepts, a Virtual Town Hall, and a MetroQuest survey. The resulting public input played an important role in all aspects of the process, from validating the goals and performance measures to project selection. Refer to Chapter III.

### **User-Friendly Format**

As a public document that is critical to the region, the TPO emphasized that this plan should be easy to read and navigate. To accomplish this, the plan includes guidance on how to use this document as a resource, call-out boxes with important information, and language that excludes as much transportation jargon as possible. This plan particularly attempted to make the project list chapter more engaging and easier to understand, with the understanding that this is the section most readers will use.

### **Electronic Version**

In the effort to make the 2045 Plan more accessible, the TPO developed an electronic version of the plan using the mySidewalk platform—a service that transposes the plan to a visually appealing web platform that readily allows decision-makers to easily reference the plan from a computer or smartphone. This format allows decision-makers to easily reference the plan from a computer or smart phone. The electronic version also includes additional materials and information, with hyperlinks to relevant resources.





## RURAL LONG-RANGE TRANSPORTATION PLAN PROJECT LIST

The RL RTP element of the plan lists project recommendations for the rural area of the Central Virginia Planning District Commission (CVPDC). The rural regional projects have a horizon year of 2040 and address the anticipated impacts of population and employment growth upon the transportation system. The RL RTP was developed as a vision plan, addressing all needs of the transportation system studied regardless of anticipated funding availability.

While the Rural Transportation element lists over 200 rural transportation projects, the tables below list the top 10 priorities by county. This list of higher priority projects is intended to assist with SMART SCALE and other transportation funding decisions for the Rural Transportation Program area.

## 2045 LRTP PROJECT LIST

The 2045 LRTP consists of two lists: The Constrained Long Range Plan (CLRP) and the Vision List. The financially constrained transportation improvement project list is limited by a reasonable estimation of future state and local transportation funding sources through year 2045. Once the total amount of anticipated funding has been allocated, the LRTP is established, and remaining projects fall into the unconstrained, or vision, list. See [Chapter VIII](#) for more information on the constrained list. [Table 2](#) details the projects that make up the Constrained Long Range Plan (CLRP).

Table 1: 2040 RL RTP projects list

Amherst County		Appomattox County	
Project #1	North Amherst Highway & Patrick Henry Highway	Project #1	Confederate Boulevard
Project #2	North Amherst Highway	Project #2	Richmond Highway & Spout Spring Road
Project #3	Richmond Highway, Segment 1	Project #3	Richmond Highway & Stage Road
Project #4	Richmond Highway, Segment 2	Project #4	Richmond Highway & Old Evergreen Road
Project #5	Father Judge Road	Project #5	Richmond Highway
Project #6	Riverville Road	Project #6	Confederate Boulevard & Court Street
Project #7	Geddes Mountain Road & Patrick Henry Highway	Project #7	Richmond Highway & Piney Ridge Road
Project #8	Baileys Sawmill Road	Project #8	Hixburg Road, Segment 1
Project #9	Matohe Road	Project #9	Hixburg Road, Segment 2
Project #10	Union Hill Road	Project #10	Old Evergreen Road

Bedford County		Campbell County	
Project #1	West Lynchburg Salem Turnpike & Camp Jaycee Road	Project #1	Wards Road & Gladys Road
Project #2	East Lynchburg Salem Turnpike, Segment 1	Project #2	Wards Road & Colonial Highway
Project #3	East Lynchburg Salem Turnpike & East Main Street	Project #3	Wards Road, Segment 1
Project #4	West Lynchburg Salem Turnpike & Villamont Road	Project #4	Clarion Road
Project #5	West Lynchburg Salem Turnpike, Segment 1	Project #5	Main Street & 7th Street
Project #6	East Lynchburg Salem Turnpike, Segment 2	Project #6	Brookneal Highway and Epsons Road
Project #7	West Lynchburg Salem Turnpike & Patterson Mill Road	Project #7	Village Highway & Plum Branch Road
Project #8	West Lynchburg Salem Turnpike & Johnson School Road	Project #8	Wards Road, Segment 2
Project #9	West Lynchburg Salem Turnpike, Segment 2	Project #9	Main Street
Project #10	East Lynchburg Salem Turnpike, Segment 3	Project #10	Lusardi Drive/Lynchburg Avenue



Table 2: Constrained project list

Connect Central Virginia 2045   Constrained Project List - Near-Term Committed				
UPC No.2	Project	Locality	Total Cost	Remaining Cost
115852	#ITTF20 MICRO TRANSIT	Statewide	\$ 500,000	\$ 500,000
64773	RTE 29/460 - ACCESS MANAGEMENT	City of Lynchburg	\$ 21,220,159	\$ -
110390	#HB2.FY17 RTE 682 - RECONSTRUCTION GARVEE DEBT SERVICE (Garvee debt service for UPC 109550)	Amherst County	\$ 10,131,165	\$ 8,933,431
110391	#HB2.FY17 ODDFELL'S RD SEG B2 RECON GARVEE DEBT SERVICE (Garvee debt service for UPC 109554)	City of Lynchburg	\$ 5,995,416	\$ 951,366
106320	UR-6056 - D/B WIDEN FROM 2 TO 4 LANES (GREENVIEW DRIVE)	City of Lynchburg	\$ 13,612,461	\$ -
106537	UR-6056 - D/B WIDEN FR 2-4 LNS (GREENVIEW DR) DEBT SERVICE (Garvee debt service for UPC 106320)	City of Lynchburg	\$ 9,834,743	\$ 5,837,544
105515	RTE 29/460 - D/B INTERCHANGE & EXTENSION (ODD FELLOWS ROAD)	City of Lynchburg	\$ 40,982,810	\$ -
112842	ADAPTIVE SIGNAL CONTROL - RIVERMONT FIBER INSTALLATION	City of Lynchburg	\$ 104,428	\$ -
113116	#SMART20 RTE 221/501 - INTERSECTION IMPROVEMENT (SPLIT PAIR)	City of Lynchburg	\$ 38,538,037	\$ 18,804,037
106533	RTE 29/460 - INTCHG & EXT (ODD FELLOWS RD) DEBT SERVICE (Garvee debt service for UPC 105515)	City of Lynchburg	\$ 48,177,768	\$ 30,549,817



# Connect Central Virginia 2045 | Constrained Project List - Long-Term Committed

UPC No.	Project Grouping	Project	Locality	Total Cost	Remaining Cost
T19026	Bridge Rehabilitation / Replacement / Reconstruction	Bridge rehabilitation/replacement	VDOT Lynchburg District	\$ -	\$ -
104600	Bridge Rehabilitation / Replacement / Reconstruction	RTE 29 NBL - BRIDGE & APPR. OVER NS RR FED. ID. NO. (04144)	Campbell County	\$ 17,868,000	\$ -
97711	Bridge Rehabilitation / Replacement / Reconstruction	RTE. 621 OVER IVY CREEK (STR. ID 02707) - BRIDGE REPLACEMENT	Bedford County	\$ 3,038,000	\$ -
51916	Bridge Rehabilitation / Replacement / Reconstruction	#SGR RT 668 OVER NSRR(STR 02785) REPLACE BRG & IMPROVE APPRO	Bedford County	\$ 4,819,000	\$ -
104599	Bridge Rehabilitation / Replacement / Reconstruction	RTE 29 SBL & NBL - BR & APPR OVER NSRR FED ID 20579 & 20580	City of Lynchburg	\$ 18,001,000	\$ -
111279	Bridge Rehabilitation / Replacement / Reconstruction	#SGR18VB - RT 29 SBL - BRIDGE & APPR OVER NSRR (FED 20579)	City of Lynchburg	\$ 7,019,000	\$ 5,947,000
T23508	Rail	CN RAIL	VDOT Lynchburg District	\$ -	\$ -
112018	Rail	HIGHWAY-RAIL SAFETY INVENTORY SECTION 130 PE ONLY	Statewide	\$ -	\$ -
112213	Rail	HIGHWAY-RAIL SECTION 130 PRE SCOPING PE ONLY	Statewide	\$ -	\$ -
112497	Rail	ENVIRONMENTAL EQ429 FORM PROCESSING CHARGES	Statewide	\$ -	\$ -
115031	Rail	CHAPEL LANE - INSTALL FLASHING LIGHTS & GATES	City of Lynchburg	\$ 450,000	\$ 450,000
109730	Safety / ITS / Operational Improvements	SRTS - DEARINGTON ELEMENTARY SCHOOL (TAP GRANT)	City of Lynchburg	\$ 112,000	\$ -





### Connect Central Virginia 2045 | Constrained Project List - Long-Term Committed

UPC No.	Project Grouping	Project	Locality	Total Cost	Remaining Cost
107802	Safety / ITS / Operational Improvements	INCIDENT MANAGEMENT EMERGENCY EVACUATION AND DETOUR PLANS	Statewide	\$ -	\$ -
110551	Safety / ITS / Operational Improvements	TRAFFIC VIDEO EXPANSION - STATEWIDE	Statewide	\$ -	\$ -
110912	Safety / ITS / Operational Improvements	STATEWIDE TRUCK PARKING MANAGEMENT SYSTEM - PHASE 1	Statewide	\$ -	\$ -
111613	Safety / ITS / Operational Improvements	STATEWIDE TRUCK PARKING MANAGEMENT SYSTEM - PHASE 2	Statewide	\$ -	\$ -
111892	Safety / ITS / Operational Improvements	ATMS - PHASE 1, 2, 3, 4	Statewide	\$ -	\$ -
114400	Safety / ITS / Operational Improvements	DRONE TECHNOLOGY PROJECT	Statewide	\$ -	\$ -
115854	Safety / ITS / Operational Improvements	#ITTF20 ARTERIAL OPERATIONS PROGRAM DASHBOARD	Statewide	\$ -	\$ -
115855	Safety / ITS / Operational Improvements	#ITTF20 HIGH SPEED COMMUNICATIONS ARTERIALS STATEWIDE	Statewide	\$ -	\$ -
T19022	Safety / ITS / Operational Improvements	CN: SAFETY/ITS/OPERATIONAL/IMPROVEMENTS		\$ -	\$ -
105481	Safety / ITS / Operational Improvements	IMPEMENT IPEMS (ITERIS PERFORMANCE MEASREMENT SYSTEM)	Statewide	\$ -	\$ -
109817	Safety / ITS / Operational Improvements	SAFETY PRESCOPING - LYNCHBURG	VDOT Lynchburg District	\$ 3,767,000	\$ 791,000
114193	Safety / ITS / Operational Improvements	PEDESTRIAN IMPROVEMENTS AT PRIORITY CORRIDOR STATEWIDE	Statewide	\$ -	\$ -
114093	Safety / ITS / Operational Improvements	RTE 29 - SHOULDER WIDENING AND RUMBLE STRIPS (AMHERST)	Amherst County	\$ 1,977,000	\$ -
114094	Safety / ITS / Operational Improvements	RTE 29 - SHOULDER WIDENING AND RUMBLE STRIPS (CAMPBELL)	Campbell County	\$ 1,025,000	\$ -
109577	Safety / ITS / Operational Improvements	RTE 60 - CONSTRUCT SIDEWALK	Amherst County	\$ 865,000	\$ -



# Connect Central Virginia 2045 | Constrained Project List - Long-Term Committed

UPC No.	Project Grouping	Project	Locality	Total Cost	Remaining Cost
108914	Safety / ITS / Operational Improvements	#HB2.FY17 ROUTE 221 CONGESTION AND SAFETY IMPROVEMENTS	Bedford County	\$ 8,138,000	\$ 2,709,000
109555	Safety / ITS / Operational Improvements	#HB2.FY17 BUS 460 - RECONSTRUCT INTERSECTION AT RTE 622	City of Lynchburg	\$ 3,233,000	\$ -
111976	Safety / ITS / Operational Improvements	PM3B18 CAMPBELL COUNTY - RTE 501 - CENTERLINE RUMBLE STRIPS	Campbell County	\$ 126,000	\$ -
107015	Safety / ITS / Operational Improvements	BUS 29 - SHOULDER WIDENING/RUMBLE STRIPS/GR - AMHERST COUNTY	Amherst County	\$ 2,930,000	\$ -
109586	Safety / ITS / Operational Improvements	BUS 29 - CONSTRUCT SIDEWALK (MADISON HEIGHTS)	Amherst County	\$ 1,853,000	\$ -
108054	Safety / ITS / Operational Improvements	DISTRICTWIDE - ADA COMPLIANCE CURB RAMP IMPROVEMENTS	VDOT Lynchburg District	\$ 1,122,000	\$ 12,000
112887	Safety / ITS / Operational Improvements	DISTRICTWIDE CENTERLINE RUMBLE STRIP INSTALLATION	VDOT Lynchburg District	\$ 620,000	\$ -
113933	Safety / ITS / Operational Improvements	DISTRICTWIDE ON-CALL RUMBLE STRIP INSTALLATION	VDOT Lynchburg District	\$ 750,000	\$ -
109550	Safety / ITS / Operational Improvements	#HB2.FY17 RTE 682 - RECONSTRUCTION	Amherst County	\$ 7,855,000	\$ -
5542	Safety / ITS / Operational Improvements	#SMART18 #SGR18VB - RT 622 - RECONSTRUCTION	Campbell County	\$ 11,029,000	\$ 1,183,000
114091	Safety / ITS / Operational Improvements	RTES 1520 & 9070 - CONSTRUCT SIDEWALK	Campbell County	\$ 634,000	\$ 634,000
114064	Safety / ITS / Operational Improvements	GRAVES MILL ROAD - INSTALL ADAPTIVE SIGNAL CONTROLS	City of Lynchburg	\$ 463,000	\$ 280,000
114062	Safety / ITS / Operational Improvements	BUS 501 - CONSTRUCT SIDEWALK (KEMPER STREET)	City of Lynchburg	\$ 384,000	\$ 201,000
108165	Safety / ITS / Operational Improvements	RTE F906 - CONSTRUCT SIDEWALK & INSTALL ROADWAY LIGHTING	City of Lynchburg	\$ 590,000	\$ -



### Connect Central Virginia 2045 | Constrained Project List - Long-Term Committed

UPC No.	Project Grouping	Project	Locality	Total Cost	Remaining Cost
8759	Safety / ITS / Operational Improvements	MIDTOWN CONNECTOR - NEW 2-LANE, W/ FLUSH MED., C&G,S/W.	City of Lynchburg	\$ 26,181,000	\$ -
109554	Safety / ITS / Operational Improvements	#HB2.FY17 ODDFELLOWS ROAD SEGMENT B2 - RECONSTRUCTION	City of Lynchburg	\$ 16,023,000	\$ -
114065	Safety / ITS / Operational Improvements	UR 6044 - PEDESTRIAN IMPROVEMENTS (OLD FOREST ROAD)	City of Lynchburg	\$ 1,281,000	\$ 1,231,000
109702	Safety / ITS / Operational Improvements	ADAPTIVE SIGNAL CONTROL - RIVERMONT AVENUE	City of Lynchburg	\$ 469,000	\$ -
115489	Safety / ITS / Operational Improvements	#SMART20 RIVERMONT AND BEDFORD AVE INTERSECTION IMPROVEMENT	City of Lynchburg	\$ 485,000	\$ -
81757	Transportation Enhancement / Byway / Non-Traditional	CITY OF LYNCHBURG - RIVERSIDE PARK MASTER PLAN	City of Lynchburg	\$ 1,266,000	\$ -
111723	Transportation Enhancement / Byway / Non-Traditional	LANGHORNE ROAD TRAIL EXTENSION	City of Lynchburg	\$ 2,000,000	\$ -
17595	Transportation Enhancement / Byway / Non-Traditional	TOWN OF AMHERST - DEPOT RELOCATION & RENOVATION	Amherst County	\$ 2,094,000	\$ 12,000
T19016	Transportation Enhancement / Byway / Non-Traditional	CN: TRANSPORTATION ENHANCEMENT / BYWAY / OTHER NON-TRADITIONAL		\$ -	\$ -
T14716	Preventive Maintenance and System Preservation	STIP-MN Lynchburg: Preventive MN and System Preservation		\$ 60,798,374	\$ 60,798,374
T14715	Preventive Maintenance for Bridges	STIP-MN Lynchburg: Preventive MN for Bridges		\$ 17,615,173	\$ 17,615,173
T14714	Traffic and Safety Operations	STIP-MN Lynchburg: Traffic and Safety Operations		\$ 5,786,713	\$ 5,786,713





# Connect Central Virginia 2045 | Constrained Project List - Long-Term New Additions

Project No.	Project	Road Name	From	To	Locality	Project Type	Total Cost	Priority Rank
96	Close unsignalized intersection and reroute traffic to the signalized intersection on Candler's Mountain Road at Murray Place/River Ridge Mall	Candler's Mountain Rd	Murray Pl	-	City of Lynchburg	Access Management and Safety	\$ 70,000	1
43	Restricted Crossing U-Turn	Timberlake Rd	Sunny Bank Dr	-	Campbell County	Access Management and Safety	\$ 2,990,000	2
62	Long-term: Convert four-leg intersection to three-leg intersection and install left turn lane	Candler's Mountain Rd	Murray Pl	-	City of Lynchburg	Intersection Reconstruction	\$ 7,300,000	3
7	Traffic Operations/ Signal Coordination/ ATPSM Upgrades	South Amherst Highway	Route 163	S Coolwell Road (Rt 694)	Amherst County	Access Management and Safety	\$ 2,500,000	4
42	Restricted Crossing U-Turn	Timberlake Rd	Brush Tavern Dr	Crowell Ln	Campbell County	Access Management and Safety	\$ 3,650,000	5
63	Install left turn lane and extend right turn lane	Candler's Mountain Rd	Mayflower Dr (Rt 128)	-	City of Lynchburg	Roadway Capacity Expansion	\$ 2,800,000	6
33	Intersection Reconstruction, install two RT turn lanes, sidewalks, ped features/modify signal, r/w	Forest Rd	Enterprise Dr (Rt 1415)	-	Bedford County	Intersection Reconstruction	\$ 5,000,000	7



# Connect Central Virginia 2045 | Constrained Project List - Long-Term New Additions

Project No.	Project	Road Name	From	To	Locality	Project Type	Total Cost	Priority Rank
44	Restricted crossing U-turn, add EB left turn lane, optimize signal timing and add NB receiving lane at Enterprise	Timberlake Rd	Shelor Dr	Enterprise Dr	Campbell County	Access Management and Safety	\$ 5,710,000	8
56	VUL Gateway Roundabout, Road Diet (Kemper St to Otey St)	Campbell Ave	Kemper St	Otey St	City of Lynchburg	Multimodal Capacity Expansion	\$ 3,800,000	9
95	Install auxiliary lanes and realign NB entrance ramp	Lynchburg Expwy	Candlers Mountain Rd (Rt 501)	-	City of Lynchburg	Roadway Reconstruction	\$ 18,800,000	10
46	Restricted crossing U-turn, install loon, add sidewalks, extend left lane storage	Timberlake Rd	Wood Rd	Hooper/Charlie's Entrance	City of Lynchburg	Access Management and Safety	\$ 5,590,000	11
104	Construct Single Lane Roundabout	Wards Ferry Rd	CVCC Campus Dr	-	City of Lynchburg	Intersection Reconstruction	\$ 4,000,000	12
142	Road Diet - restriping	Campbell Ave	Fairview Ave	Florida Ave	City of Lynchburg	Multimodal Capacity Expansion	\$ 2,160,000	13
144	Access management, ROW acquisition, road improvements on the eastern intersection leg	Candlers Mountain Rd	Wards Rd (US 29)	Seminole Ave	City of Lynchburg	Roadway Reconstruction	\$ 10,000,000	14
147	Median closure, construct two median openings with loons	Lynchburg Hwy	Turkey Foot Rd	-	Campbell County	Access Management and Safety	\$ 6,188,000	15



# Connect Central Virginia 2045 | Constrained Project List - Long-Term New Additions

Project No.	Project	Road Name	From	To	Locality	Project Type	Total Cost	Priority Rank
117	Priority II Projects: widening & pedestrian improvements (RT turn lane, ped features, modify signal, utility adjustments, stormwater, sidewalk, r/w)	Graves Mill Rd	Creekside Dr	-	City of Lynchburg	Roadway Reconstruction	\$ 1,600,000	16
120	Priority II Projects: install median, widening & add multiuse path	Graves Mill Rd	Millrace Dr	Millside Dr	City of Lynchburg	Roadway Reconstruction	\$ 8,800,000	17
118	Priority II Projects: install single lane roundabout	Graves Mill Rd	McConville Rd	-	City of Lynchburg	Intersection Reconstruction	\$ 4,000,000	18
148	Restricted Crossing U-Turn	Lynchburg Hwy	New London Dr	-	Campbell County	Access Management and Safety	\$ 3,370,000	19
116	Priority I Projects (Sidewalk, turn lanes, add lane, curb and gutter, replace signal, ped features, overhead and underground utilities)	Graves Mill Rd	Gristmill Dr (Rt 1426)	-	Bedford County	Roadway Capacity Expansion	\$ 3,500,000	20
119	Priority II Projects: install turn lane & access management (turn lane, sidewalk, utility adjustments, signal modifications, ped features)	Graves Mill Rd	Millrace Dr	-	City of Lynchburg	Intersection Reconstruction	\$ 1,700,000	21
97	Extend northbound acceleration lane	Lynchburg Expressway	Carroll Avenue	-	City of Lynchburg	Intersection Reconstruction	\$ 5,250,000	22



## Connect Central Virginia 2045 | Constrained Project List - Long-Term New Additions

Project No.	Project	Road Name	From	To	Locality	Project Type	Total Cost	Priority Rank
5	Extend SB acceleration lane & NB deceleration lanes & install auxiliary lane between Odd Fellows & Carroll Ave interchanges	Lynchburg Expressway	Odd Fellows Road	-	City of Lynchburg	Roadway Reconstruction	\$ 8,570,000	23
60	Bridge reconstruction, improvements on south, north & west intersection legs	Candlers Mountain Rd	Wards Rd (US 29)	-	City of Lynchburg	Intersection Reconstruction	\$ 15,000,000	24
155	Access Management and Intersection Improvements Segments 1-3	Wards Rd	City of Lynchburg corp limits	Lofty View Ln	Campbell County	Access Management and Safety	\$ 12,547,301	25
49	Access Management Improvements	Timberlake Rd	Whitten Timberlake Chapel Entrance	Heritage Business Center Entrance	City of Lynchburg	Access Management and Safety	\$ 1,870,000	26
48	Restricted crossing U-Turn	Timberlake Rd	Timber Ridge II Apartments Entrance	-	City of Lynchburg	Access Management and Safety	\$ 855,000	27
143	Potential phased approach	South Amherst Highway	Route 163	S Coolwell Road (Rt 694)	Amherst County	Access Management and Safety	\$ 20,000,000	28
146	Restricted Crossing U-Turn	East Lynchburg Salem Turnpike	Thomas Jefferson Rd (Rt 811)	-	Bedford County	Access Management and Safety	\$ 6,550,000	29
4	Extend SB deceleration lane & reconfigure ramps	Lynchburg Expressway	James Street/Stadium Road	-	City of Lynchburg	Roadway Reconstruction	\$ 8,880,000	30
8	Add ramp to complete interchange	South Amherst Highway	Route 163	-	Amherst County	New Roadway	\$ 13,910,000	31





# Connect Central Virginia 2045 | Constrained Project List - Long-Term New Additions

Project No.	Project	Road Name	From	To	Locality	Project Type	Total Cost	Priority Rank
156	Access Management and Intersection Improvements Segments 4-6	Wards Rd	Lofty View Ln	Patterson Rd	Campbell County	Access Management and Safety	\$ 13,799,831	32
157	Access Management and Intersection Improvements Segments 7-8	Wards Rd	Patterson Rd	Dennis Riddle Dr	Campbell County	Access Management and Safety	\$ 11,882,000	33
122	Priority III Projects: install diverging diamond, includes bridge replacement	Graves Mill Rd	Us 501 Interchange	-	City of Lynchburg	Roadway Reconstruction	\$ 30,400,000	34
105	Add turn lanes	Wards Ferry Rd	Atlanta Ave	-	City of Lynchburg	Intersection Reconstruction	\$ 570,000	35
24	Two left turn lanes	Elon Rd	Berg Dr	-	Amherst County	Intersection Reconstruction	\$ 1,143,000	36
19	Access Management and Intersection Improvements	Wards Rd	Colonial Highway (Rt 24)	City of Lynchburg corp limits	Campbell County	Access Management and Safety	\$ 17,886,422	37
115	Priority I Projects: additional EB lane on Creekside, widen SB ramp	Graves Mill Rd	US 501 Southbound Ramp	-	City of Lynchburg	Intersection Reconstruction	\$ 6,540,000	38
149	Restricted Crossing U-Turn	Richmond Highway	Village Hwy	-	Campbell County	Access Management and Safety	\$ 6,290,000	39
98	Install southbound auxiliary lane	Lynchburg Expressway	Miller St	Kemper St	City of Lynchburg	Roadway Capacity Expansion	\$ 9,700,000	40
145	Restricted Crossing U-Turn	East Lynchburg Salem Turnpike	Meade Rd	-	Bedford County	Access Management and Safety	\$ 2,950,000	42



## Connect Central Virginia 2045 | Constrained Project List - Long-Term New Additions

Project								
No.	Project	Road Name	From	To	Locality	Project Type	Total Cost	Priority Rank
150	Implement downtown complete streets - Phase A, four blocks	Downtown Streets	-	-	City of Lynchburg	Multimodal Capacity Expansion	\$ 5,000,000	48



## Connect Central Virginia 2045 | Constrained Project List - Long-Term Bike & Pedestrian Projects

Project No.	Project	Road Name	From	To	Locality	Project Type	Total Cost
16	Install 3,800 ft of sidewalk on east side of US 29 business	South Amherst Highway	Woody's Lake Rd (Rt 682)	Dillard Rd (Rt 766)	Amherst County	Multimodal Improvements	\$ 1,150,000
17	Improve sidewalks and pedestrian crossings at traffic circle	South Main St	Lexington Turnpike (Rt 60)		Amherst County	Multimodal Improvements	\$ 170,000
18	Improve sidewalks and pedestrian crossings	South Main St	Lexington Turnpike (Rt 60)	2nd St	Amherst County	Multimodal Improvements	\$ 1,740,000
29	Convert a portion of the underutilized John Lynch Bridge into a multi-use trail connecting Amherst Riveredge Park to Downtown	John Lynch Memorial Bridge/ 5th St	River Rd (Rt 685)	Commerce St	City of Lynchburg	Multimodal Capacity Expansion	\$ 3,020,000
35	Add sidewalks	Forest Rd/Lakeside Dr	Forest Dale Dr	Forest Brook Rd	Bedford County, City of Lynchburg	Multimodal Improvements	\$ 3,200,000
94	Add sidewalks to improve pedestrian access to Brookville High School	Laxton Rd	Enterprise Dr (Rt 1415)	Timberlake Rd (Rt 460)	City of Lynchburg	Multimodal Capacity Expansion	\$ 800,000
110	Convert unused rail line to multi-use trail	VUL Rail to Trail	Virginia University- Lynchburg	Kemper St Station	City of Lynchburg	Multimodal Capacity Expansion	\$ 3,300,000
111	Add pedestrian signals and crosswalks at intersection	Wards Ferry Rd	Simons Run		City of Lynchburg	Intersection Improvement	\$ 120,000



## Connect Central Virginia 2045 | Constrained Project List - Long-Term Bike & Pedestrian Projects

Project No.	Project	Road Name	From	To	Locality	Project Type	Total Cost
114	Convert underutilized lanes of Rivermont Ave bridge into bike lanes with buffers	Rivermont Ave	5th St (Rt 163)	D St	City of Lynchburg	Multimodal Capacity Expansion	\$ 22,000
126	Sidewalk improvements	Forest Rd	Thomas Jefferson Rd (Rt 811)	Enterprise Dr (Rt 1415)	Bedford County	Multimodal Improvements	\$ 3,540,000
153	An approximately 6,500 foot, 10-foot wide, shared use asphalt trail that will connect Riveredge Trail to the James River Heritage Trail (JRHT).	Riveredge and JRHT Extension	Riveredge Trail	James River Heritage Trail	Amherst County	Multimodal Capacity Expansion	\$ 1,709,316
154	Completing the James River Heritage Trail throughout the region	James River Heritage Trail			Region-wide	Multimodal Capacity Expansion	
158	Construct approximately 1700' of additional multi-use trail, complete Phase II of Rock Castle Creek Greenway	Wards Rd	Atlanta Ave	Wards Ferry Rd	City of Lynchburg	Multimodal Capacity Expansion	\$ 970,000
159	Construct approximately 3300' of sidewalk along Florida Avenue	Florida Ave	Greenview Dr	500' north of Hudson St	City of Lynchburg	Multimodal Capacity Expansion	\$ 9,925,174





Figure 2: Constrained list projects

