

The Berkeley Charleston Dorchester Council of Governments

The Berkeley-Charleston-Dorchester Council of Governments
announces its consideration of amendments to the following document:

2021-2027 RURAL TRANSPORTATION IMPROVEMENT PROGRAM (RTIP)

&

BCD 2040 RURAL LONG-RANGE TRANSPORTATION PLAN (RLRTP)

This document is available for public review and comment
from **February 6, 2023 to February 27, 2023**

Monday-Friday between the hours of **9:00 am to 5:00 pm**
at the

Berkeley-Charleston-Dorchester Council of Governments
5790 Casper Padgett Way North Charleston, SC
843-529-0400

Or at <http://www.bcdkog.com/>

Contact Person: Sarah Cox

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BCDCOG RURAL TRANSPORTATION FINANCIAL STATEMENT (Cost in Thousands)

PIN #	Guideshare Projects	Prior Years	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	TIP COST (2021-2027)	REMAINING COST (2028+)	Total Project Cost	FUNDING
1 Cost-Share	US 78 Phase IIA (US 178 to SC-27S) (US 178 to Ridgeville Rd)	\$797 \$8,510 \$7,950 \$220										\$17,477	BCDCOG Rural Guideshare BCDCOG Rural Guideshare TIGER Funding Dorchester Co. Sales Tax
	US 78 Phase IIB* (SC-27S to S-18-22) (Ridgeville Rd to Orangeburg Road)	\$2,948 \$5,300 \$861 \$4,871		\$1,984 ACC						\$1,984		\$15,964	BCDCOG Rural Guideshare BCDCOG Rural Guideshare TIGER Funding Dorchester Co. Sales Tax Dorchester Co. Sales Tax
2 Cost-Share	INTERSECTION IMPROVEMENT - US 17A @ SC 6	\$1,191										\$1,191	BCDCOG Rural Guideshare
	US 17 A (Phase III) (Widen to 5 Lanes from S-9 to Near SC 6 in Moncks Corner)	\$3,401										\$3,401	BCDCOG Rural Guideshare
RLRTP #1, #2, #3	US 17 @ SC 165 & US 17 @ New Rd - Intersection Improvement (Traffic Control/Bike & Ped.)				\$50 PL	\$389 PE	\$250 R	\$3,028 C		\$3,717		\$3,717	BCDCOG Rural Guideshare
RLRTP #5	US 52 @ SC 402 - Intersection Improvement				\$30 PL	\$50 PE	\$462 C			\$542		\$542	BCDCOG Rural Guideshare
RLRTP #7, #12	SC 165 - Hollywood Town Limit to Town Council Rd (Bike/Pedestrian)				\$250 PE	\$850 R			\$1,950 C	\$3,050		\$3,050	BCDCOG Rural Guideshare
RLRTP #8, #9, #14	SC 162 @ SC 165 & SC 162 @ Gibson Rd - Inter. Improvement (Traffic Control/Bike & Ped.)				\$50 PL	\$200 PE	\$200 R	\$1,719 C		\$2,169		\$2,169	BCDCOG Rural Guideshare
RLRTP #10	SC 27 @ S. Railroad Ave - Intersection Improvement				\$50 PL	\$170 PE		\$200 R	\$1,238 C	\$1,658		\$1,658	BCDCOG Rural Guideshare
	GUIDESHARE PROJECT SUBTOTALS	\$16,846	\$0	\$1,984	\$430	\$1,659	\$912	\$4,947	\$3,188	\$13,120		\$49,169	
	GUIDESHARE ALLOCATION		\$2,181	\$2,181	\$2,181	\$2,181	\$2,181	\$2,181	\$2,181				
	CARRYOVER AVAILABLE		\$2,195	\$4,573	\$4,770	\$6,521	\$7,044	\$8,313	\$5,547				
	BOND PROCEEDS		\$0	\$0	\$0	\$0	\$0	\$0	\$0				
	GUIDESHARE BALANCE		\$4,573 *	\$4,770	\$6,521	\$7,044	\$8,313	\$5,547	\$4,541				

* Guideshare Balances from FY 2020 and FY 2021 applied to AC Conversion (ACC) programmed in FY2022

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PROJECTS EXEMPT FROM GUIDESHARE													
	Bridge Replacement & Rehab Projects												
	US 78 @ Four Hole Swamp (Replacement)	\$11,175										\$11,175	Bridge Program
	SC 174 @ Store Creek (Replacement)	\$4,771										\$4,771	Bridge Program
	SC 174 @ Sand Creek (Replacement)	\$7,160										\$7,160	Bridge Program
	SC 174 @ Russell Creek (Replacement)	\$11,000										\$11,000	Bridge Program
	SC 165 Caw Caw Swamp No. 1 (Replacement)	\$5,647										\$5,647	Bridge Program
	SC 165 Caw Caw Swamp No. 2 (Replacement)	\$5,260										\$5,260	Bridge Program
	SC 165 Caw Caw Swamp No. 3 (Replacement)	\$5,221										\$5,221	Bridge Program
P027127	US 176 @ Dean Swamp	\$16,094										\$16,094	Bridge Program
P037127	US 15 over Indian Field Swamp	\$7,806										\$7,806	Bridge Program
P037129	Taylor Pond Rd (S-139) (Replacement)	\$832	\$50 R	\$1,940 C						\$1,990		\$2,822	Bridge Program
P030449	Toogoodoo Rd (S-390) over Swinton Creek (Replacement)			\$760 PE		\$39 R		\$6,804 C		\$7,604		\$7,604	Bridge Program
	Statewide Safety Program												
	US 17A & S-48 (Bethera Rd) & S-97 (Cane Gully Rd) & S-40 (Harristown Rd)	\$1,100										\$1,100	Statewide Safety Program
P039388	US 176 (State Rd)/S-135 (Mudville Rd) - Intersection Safety Improvement	\$250		\$100 R						\$2,100		\$2,350	Statewide Safety Program
	Section/Corridor Improvements - Statewide Safety Program (2015 Commission Approved)				\$2,000 C								Statewide Safety Program
	I-26 Clear Zone Improvements from near MM 180 to near MM 221	\$5,400										\$5,400	HSIP
P029757	I-26 Cable Guardrail Improvements from near MM 168 to MM 199 (Phase II)	\$10,000										\$10,000	HSIP
	Interstate Safety Improvements												
	Repair Refuge Perimeter Rd (Route 100) - Ace Basin National Wildlife	\$1,000										\$1,000	Eastern Federal Lands
	Pavement Projects												STBG
	Safety Projects												STBG
	Pavement Signing & Marking												STBG
	ITS (Interstate)												STBG
	Incident Response Program												STBG
	Appropriation Earmark												STBG
	I-26 New Interchange (Near MM 189)	\$35,000										\$35,000	SC Dept of Commerce
		\$645								\$194,000		\$201,000	SIB
Correction 12/20/2022	P029263	\$6,355	\$4,000 R										Interstate Program (NHPP)
	I-26 Widening from near SC 27 (Exit 187) to near Jedburg Rd (Exit 194)			\$3,540 C									Interstate Program (NHPP)
				\$186,460 AC									STBG - TAP
					\$62,153 ACC	\$62,153 ACC	\$36,460 ACC	\$25,693 ACC					Interstate Program (NHPP)
													Interstate Program (ARPA-STF)
Amendment 2/27/2023	P038677	\$1,000		\$6,000 PE	\$59,657 C					\$239,000		\$240,000	Interstate Program (NHPP)
Amendment 2/27/2023					\$173,343 AC	\$79,543 ACC	\$79,543 ACC	\$14,257 ACC					Interstate Program (NHPP)
	I-26 Widening (MM 165 to MM 176)				\$7,000 PE								Interstate Program (NHPP)
	I-26 Widening (MM176 to MM 187)				\$6,000 PE								Interstate Program (NHPP)
	Interstate Preservation & Construction - I-26 (MM 149-MM172)	\$59,200										\$59,200	Interstate Program (NHPP)
			\$55 PE							\$2,553		\$2,553	Federal Lands
P028590	S-98 (Halfway Creek Rd) Resurfacing and shoulder improvement		\$71 PE										Pavements-Non FA
				\$867 C									Federal Lands
				\$1,561 C									Pavements-Non FA
PROJECTS EXEMPT FROM GUIDESHARE SUBTOTAL*		\$194,916	\$4,176	\$14,768	\$136,811	\$141,735	\$141,696	\$21,062		\$447,247		\$642,163	

*Does not include STIP-Referenced Projects

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FEDERAL TRANSIT ADMINISTRATION													
BERKELEY CITIZENS													
Amendment 2/27/2023	Purchase of Service	\$218	\$50	\$50	\$50					\$150		\$368	FTA Section 5310
	Capital	\$60										\$60	FTA Section 5310
	Vehicle Acquisition	\$90										\$90	FTA Section 5310
ENHANCED MOBILITY													
Amendment 2/27/2023	BCDCOG - Mobility Management	\$67	\$40	\$40	\$40					\$120		\$187	FTA Section 5310
	BCD RTMA - Operations	\$126										\$126	FTA Section 5310
TRI-COUNTY LINK (BCD RTMA)													
Amendment 2/27/2023	Administration, Operating, & Capital	\$5,524		\$1,001	\$1,229					\$2,231		\$7,755	FTA Section 5311 - Federal
Amendment 2/27/2023	BCD RTMA - Section 5311 (ARP Act)	\$219		\$243	\$247					\$491		\$710	FTA Section 5311 - SMTF
	COVID-19 Research Demonstration Grant (FY 2020)		\$575 CA							\$575		\$575	FTA - Federal Funds
			\$100 CA							\$100		\$100	Local match - Charleston Co. TST
FTA FUNDED PROJECTS SUBTOTAL		\$6,304	\$765	\$1,335	\$1,661					\$3,761		\$10,065	
TRANSPORTATION ALTERNATIVE PROJECTS													
P28051900719	McClellanville Bicycle Pedestrian Connection - Pinckney St/Old Cemetery/Kitt Hall Rd	\$400										\$900	STBG
		\$100											2019 RTP
		\$400											Match - Local/County
Wambaw Cycle Trail													
P28051900919	Enhancement Project	\$50										\$300	2019 RTP
P28052001820	Enhancement Project	\$88											2020 RTP
P28052101321	Enhancement Project		\$80 C							\$100			2021 RTP
P28052201422	Enhancement Project			\$50 C						\$63			2022 RTP
			\$20 C	\$13 C									Match - Local/County
P28051700517	Courthouse Park Recreation Trail	\$100										\$125	2017 RTP
		\$25											Match - Local/County
P28052100621	Awendaw East Coast Greenway Phase 2		\$100 C							\$125		\$125	2021 RTP
			\$25 C										Match - Local/County
TA PROJECTS SUBTOTAL		\$1,163	\$225	\$63						\$288		\$1,450	
RURAL TIP GRAND TOTAL			\$219,229	\$5,166	\$18,150	\$138,902	\$143,394	\$142,608	\$26,009	\$3,188	\$464,417	\$702,847	

KEY: PE - Preliminary Engineering R - Right of Way C - Construction VA - Vehicle Acquisition OP - Operating Expenses CA - Capital Expenses PS - Purchase of Service PL - Planning RTP - Recreation Trails Program SIB - State Infrastructure Bank

¹ AC (Advanced Construction) reflects the use of state funds to initiate a project. Represents the commitment of state funds to satisfy the programming levels exceeding available federal funding in a given year.

² AC Conversion (Advanced Construction Conversion) reflects the conversion of state funds to federal funds in the future.

2040 RURAL LRTP



2040 BCD RURAL LONG-RANGE TRANSPORTATION PLAN
DRAFT AMENDMENT #4

Draft Amendment: February 27, 2023

Amendment #4 – BCD 2040 RL RTP (Highway and Transit Safety Performance Targets)

Federal regulations established through the FAST Act and maintained in IIJA/BIL, require state departments of transportation to establish and report annual safety performance targets. Per federal rules and SCDOT Planning Procedure Agreement PL-2017-01, MPOs and COGs are also required to formally adopt either the State's safety targets or evaluate and set regionally specific targets for highways. As such, the BCDCOG is amending the BCD 2040 Rural Long-Range Transportation Plan (LRTP) to include the annual safety targets set by the South Carolina Department of Transportation (SCDOT) for the 2023 performance period.

Recipients of public transit funds, are also federally required to establish annual transit related safety targets and report on the agencies' progress toward achieving set targets. Public transportation providers are further directed to share such information with MPOs/COGs and states so all plans and performance reports are coordinated. TriCounty Link (TCL), the region's rural transit service provider, has and will continue to share this data with the BCDCOG to facilitate its performance-based planning process. The BCDCOG is amending the 2040 RL RTP to include the transit safety performance measures and annual targets set and reported by TCL for the 2023 performance period.

PERFORMANCE MEASURES AND TARGETS –

Highway Performance

Through the federal rule-making process, the Federal Highway Administration (FHWA) requires state DOTs and MPOs to monitor the transportation system using specific performance measures. These measures are associated with the national goal areas prescribed in MAP-21 and the FAST Act. The following table describes the national goal areas, performance areas, and measures associated with Highway Performance.

Table 1: National Goal Areas and Performance Measures (Highways)

National Goal Area	Performance Area	Performance Measures
Safety: To achieve a significant reduction in traffic fatalities and serious injuries on all public roads.	Injuries and Fatalities	<ul style="list-style-type: none"> - Number of Fatalities - Fatality rate (per 100 million VMT) - Number of serious injuries - Serious injury rate (per 100 million VMT) - Number of non-motorized fatalities and non-motorized serious injuries
Infrastructure Condition: To maintain the highway infrastructure asset system in a state of goods repair.	Pavement Condition	<ul style="list-style-type: none"> - Percent of pavements on the Interstate System in Good Condition - Percent of pavements on the Interstate System in Poor Condition - Percent of pavements on the non-Interstate System in Good Condition - Percent of pavements on the non-Interstate System in Poor Condition
	Bridge Condition	<ul style="list-style-type: none"> - Percent of NHS bridges classified as in Good Condition - Percent of NHS bridges classified as in Poor Condition
System Reliability: To improve the efficiency of the surface transportation system.	Performance of the National Highway System	<ul style="list-style-type: none"> - Percent of person miles traveled on the Interstate System that are reliable - Percent of person miles traveled on the non-Interstate NHS that are reliable
Freight Movement and Economic Vitality: To improve the National Highway Freight Network, strengthen the ability of rural communities to access national and international trade markets, and support regional economic development.	Freight Movement on the Interstate System	<ul style="list-style-type: none"> - Truck Travel Time Reliability
Congestion Reduction: To achieve a significant reduction in congestion on the Nation Highway System.	Traffic Congestion	<ul style="list-style-type: none"> - Annual hours of peak-hour excessive delay per capita - Percent of non-single-occupant vehicle traffic
Environmental Sustainability: To enhance the performance of the transportation system while protecting and enhancing the natural environment.	On-Road Mobile Source Emissions*	<ul style="list-style-type: none"> - Total emissions reduction*

Note - * This measure only applies to non-attainment or maintenance areas over a prescribed population threshold. This measure does not apply to the BCD planning area

Highway Safety

For the 2023 performance period, the BCDCOG accepts and supports the State of South Carolina's DOT safety targets for all five highway safety performance measures presented in Table 2.

Table 2: SCDOT and BCD Rural Planning Area Safety Measures Baselines (2017-21) and Safety Performance Targets (2023)

Measure	Traffic Fatalities	Fatality Rate*	Serious Injuries	Serious Injuries Rate*	NMU Fatalities and Serious Injuries
State Baseline (2017-2021) Average	1,058	1.88	2,859	5.073	458
State Targets (2019-2023) Approved	1,119	1.94	2,868	4.96	485
BCD Baseline (2017-2021) Average	40.6	2.25	79.4	4.428	10.6

Note - *Rate per 100 million vehicle miles traveled

This means BCDCOG will:

- Address areas of concern for fatalities or serious injuries within the rural planning area through coordination with SCDOT and incorporation of safety considerations on all projects;
- Integrate safety goals, objectives, performance measures, and targets into the planning process; and
- Include the anticipated effect toward achieving the targets noted above within the RTIP, effectively linking investment priorities to safety target achievement.

Transit Performance

Recipients and sub-recipients of public transit funds—which can include states, local authorities, and public transportation operators—are required to establish performance targets for safety annually and report on their progress toward achieving set targets. Public transportation operators are directed to share information with MPOs/COGs and states so that all plans and performance reports are coordinated. Table 3 identifies performance measures outlined in the National Public Safety Transportation Plan, released by the Federal Transit Administration (FTA), and in the final rule for transit asset management.

Table 3: National Goal Areas and Performance Measures (Transit)

National Goal Area	Transit Performance Area or Asset Category	Performance Measures
Safety	Fatalities	Total number of reportable fatalities and rate per total vehicle revenue miles by mode
	Injuries	Total number of reportable injuries and rate per total vehicle revenue miles by mode
	Safety Events	Total number of reportable events and rate per total vehicle revenue miles by mode
	System Reliability	Mean distance between major mechanical failures by mode
Infrastructure Condition (State of Good Repair: Transit Asset Management)	Equipment	Percent of vehicles that have met or exceeded their Useful Life Benchmark (ULB)
	Rolling Stock	Percent of revenue vehicles within a particular asset class that have met or exceeded their ULB
	Facilities	Percent of facilities within an asset class rated below 3.0 on the FTA Transit Economic Requirement Model scale

Transit Safety

The region's rural transit provider, TriCounty Link (TCL), as required by the federal Public Transportation Agency Safety Plan (PTASP) final rule effective June 19, 2019, has developed a PTASP including processes and procedures implementing a Safety Management Systems (SMS) for the local transit agency. The BCDCOG Board of Directors certified TCL's Safety Plan, and adopted its annual Plan update on June 21, 2022. Included in Table 4 below are the agency's initial targets and summary of performance for the 2022 period, and the targets set for the 2023 performance period. The agency will report on progress and update targets on an annual basis, and coordinate with the BCDCOG to ensure that the goals, objectives, measures and targets set in the PTASP are integrated into the COG's planning processes.

Table 4: TCL Transit Safety Performance (2022) and Safety Targets (2023)

Mode of Transit Service	Fatalities (Total)	Fatality Rate*	Injuries (Total)	Injuries Rate*	Safety Events (Total)	Safety Events Rate*	System Reliability**
All Bus Service (2019 Baseline)	0	0	5	5.35	10	10.7	25,000
All Bus Service (2021 Actual Performance)	0	0	2	4.1	8	16.5	92,432
All Bus Service (2022 Target)	0	0	5	0.7	10	1.4	60,000
All Bus Service (2022 Actual Performance)	0	0	2	0.28	9	1.3	71,321
All Bus Service (2023 Targets)	0	0	3	0.42	9	1.3	60,000

Note - *Rate per 100,000 vehicle revenue miles (VRM); **Average distance (VRM) between major mechanical failures

For the 2023 performance period the BCDCOG accepts and supports the safety performance targets set in the TriCounty Link PTASP. The COG will continue to work with TCL to achieve these targets.

APPENDIX A: ADOPTION AND APPROVAL RESOLUTION

DRAFT

APPENDIX B: CHATS STUDY TEAM/POLICY COMMITTEE MEETING MINUTES

DRAFT

APPENDIX C: TriCounty Link Public Transportation Agency Safety Plan (PTASP) 2023 Performance Targets

DRAFT

MEMORANDUM

TO: Sarah Cox, Transportation Planner, BCDCOG / CHATS MPO
FROM: Jeff Hughes, Chief Safety Officer, BCDCOG
DATE: November 3, 2022
SUBJECT: Public Transportation Agency Safety Plan Performance Targets
CC: Kathryn Basha, Planning Director, BCDCOG / CHATS MPO; file

The Public Transportation Agency Safety Plan (PTASP) final rule was issued on June 19, 2018. The issuance of this final rule serves as a capstone for a collection of rules making up the Public Transportation Safety Program, including the National Public Transportation Safety Plan Rule, which defines the four performance measures for which transit agencies and MPOs have to set targets. The PTASP final rule has an effective date of July 19, 2019, and applies to transit agencies that are recipients and sub-recipients of FTA Section 5307 funding. Applicable transit operators are required to develop a PTASP including processes and procedures implementing a Safety Management Systems (SMS). The RTMA Board of Directors adopted its annual Safety Plan certification on June 21, 2022. Included below are the 2023 targets for the four safety measures, which is updated annually hereafter. In addition, the performance data shifted to the

FTA’s PTASP regulation, 49 CFR Part 673, requires the state or transit agency that drafted the Agency Safety Plan to make its safety performance targets available to states and MPOs to aid in the planning process and to coordinate with states and MPOs in the selection of state and MPO safety performance targets. The MPO is responsible for integrating performance measures from PTASP into their planning processes in accordance with 23 CFR §450.306(d)(4) that states “an MPO shall integrate in the metropolitan transportation planning process, directly or by reference, the goals, objectives, performance measures, and targets described in other state transportation plans and transportation processes, as well as any plans developed under 49 U.S.C. Chapter 53 by providers of public transportation, required as part of a performance-based program...” The regulation lists nine plans that are among those the MPO must integrate into its planning process (23 CFR § 450.306(d)(4)(i)-(viii)), & the PTASP is one of them.

2023 Safety Performance Targets (SPT) RTMA							
Mode of Transit Service	Fatalities (Total)	Fatalities (Rate)	Injuries (Total)	Injuries (Rate)	Safety Events (Total)	Safety Events (Rate)	System Reliability (Average distance between major mechanical failures)
All Bus Services	0	0/100,000 VRM	3	.42/100,000 VRM	9	1.3/100,000 VRM	60,000 VRM

2022 Safety Performance Targets (SPT) RTMA								
	Mode of Transit Service	Fatalities (Total)	Fatalities (Rate)	Injuries (Total)	Injuries (Rate)	Safety Events (Total)	Safety Events (Rate)	System Reliability (Average distance between major mechanical failures)
Target	All Bus Services	0	0/100,000 VRM	5	.70/100,000 VRM	10	1.4/100,000 VRM	60,000 VRM
Actual	All Bus Services	0	0/100,000 VRM	2	.28/100,000 VRM	9	1.3/100,000 VRM	71,321 VRM

RTMA established the goal to make transit safer for all customers, employees, and the local community through policy development, hazard investigation, data collection, risk analysis, effective oversight programs, and information sharing. Staff will continue to work toward improving processes to ensure the safety of its customers, employees, and the public with the goal of exceeding the performance measures established in the PTASP. RTMA aims to support a robust safety culture, and achieve the highest level of safety performance, meeting all established safety standards with a commitment to safety from the Board of Directors, to the executive leadership team to the frontline employee.

In summary, there were a total of **713,214 VRM**, 10 mechanical failures, 2 total injuries, and 9 total safety events.

Please feel free to contact me with any questions or for further information. We appreciate the coordinated effort with our member jurisdictions, the CHATS MPO, and SCDOT to improve safety for transit access and transit facilities.

***NOTE-** The targets have been converted to the FTA standard of vehicle revenue miles (**VRM**) versus passenger trips, which explains the difference in performance data calculations from previous year.

Target SPT injuries (5)/ by annual expected VRM (713,214) X 100,000 = .70 per 100,000 VRM

Target SPT safety events (10)/ by annual expected VRM (713,214) X 100,000=1.4

Actual SPT system reliability 713,214/10= 71,321