

FY2020-2023 TIP
with the changes for
FY2021-2024 Projects

AMENDED 9-2-2020

A 2-year TIP with second year changes to
conform with DeIDOT's FY2021-2024 CTP.

APPENDIX I

Adding the FY2021-FY2024 Projects

In 2017 DelDOT implemented a new 2 year STIP process approved by the State Legislature. For the Dover/Kent County MPO, it requires that any significant changes represented in the FY2021-FY2024 CTP be amended into the current TIP. The MPO identified 9 significant changes to the FY2021-FY2026 CTP that had to be amended into the FY2020-FY2023 TIP to match the STIP and to accurately represent the projects as they appear in the STIP.

The following pages are amended into the TIP, as indicated.

APPENDIX A
Funded Dover/Kent County MPO Projects

ROAD SYSTEM:
ARTERIALS

HAZARD ELIMINATION PROGRAM (HEP), - KENT COUNTY

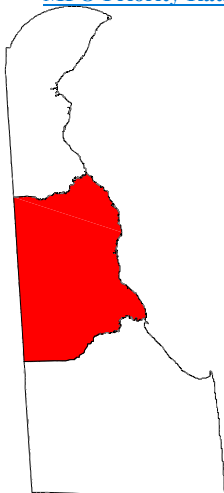
PROJECT SCOPE/DESCRIPTION: The Federal Code at 23 USC152 defines this as: Each State shall conduct and systematically maintain an engineering survey of all public roads to identify hazardous locations, sections, and elements, including roadside obstacles and unmarked or poorly marked roads, which may constitute a danger to motorists, bicyclists, and pedestrians, assign priorities for the correction of such locations, sections, and elements, and establish and implement a schedule of projects for their improvement. The proposed projects identified through this process in Kent County that are required to be addressed are listed in the Funding Schedule below. They are the larger projects that, the Department and MPO feels, should be reported separately.

PROJECT JUSTIFICATION: These improvements are federally-mandated safety programs and intersection programs that provide safe turning movements.

County: Kent
Funding Program: Road System – Arterials
Estimated Cost: \$97,354,000
MPO Priority Rating: N/A (HEP)



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Descriptions:

US 13 Widening: This project involves the addition of a third lane in each direction on US13 from the Puncheon Run Connector south to Walnut Shade Rd. This will require roadway widening, storm water management facilities, multiple intersection redesigns, traffic signal reconfigurations and multi-modal improvements. The second phase is HEP KC US13 Walnut Shade Road to Lochmeath Way.

HAZARD ELIMINATION PROGRAM (HEP) - KENT COUNTY

MS30-Highway Safety Improvement Program

Project Authorization Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
US13-Walnut Shade Road to Lochmeath Way:	PE	1,995.3								1,995.3
	ROW			2,000.0						2,000.0
	C							6,000.0	5,000.0	11,000.0
US 13 Widening	Σ	1,995.3	0.0	2,000.0	0.0	0.0	0.0	6,000.0	5,000.0	14,995.3

M231-Surface Transportation Program

Project Funding Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
US13-Walnut Shade Road to Lochmeath Way:	PE	1141.0								1,141.0
	ROW			700.0		100.0				800.0
	C							1,900.0	7,600.0	9,500.0
US13 Widening	Σ	1,141.0	0.0	700.0	0.0	100.0	0.0	1,900.0	7,600.0	11,541.0

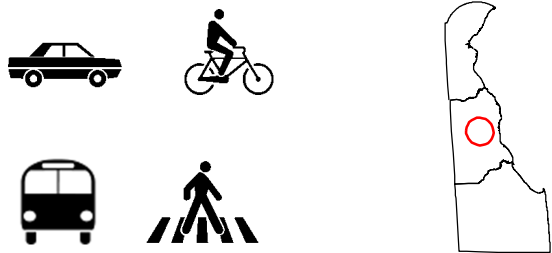
ROAD SYSTEM: COLLECTORS

WEST CAMDEN BY-PASS: EAST OF US13

Project Description: The Town of Camden has experienced traffic growth as development has occurred west of RT13. The Town has worked with the department to lessen the impact of traffic congestion and large trucks on the small Main Street and adjoining historic properties. Funding is requested to provide a new connection from Willow Grove Road and South Street to US 13

Project Justification: This project is part of the Camden Bypass Study that was adopted into the Town of Camden's Comprehensive Plan. The purpose of the project is to increase safety and reduce traffic congestion along SR10 through the Town of Camden and improve traffic operations at the US13/SR10 and US13/Old North Road intersections. The roadway and intersections currently have a failing level of service. These intersections are used by vehicles to access schools located on Old North Road. This additional congestion adds to the capacity issues and the higher than average crash rate on this section of US13.

County:	Kent
Municipality:	Dover
Funding Program:	Road System – Collectors
Functional Category:	Management
Representative District:	34
Senatorial District:	17
Estimated Cost:	\$33,203,337



WEST CAMDEN BY-PASS:

Project Authorization Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
WEST CAMDEN BY-PASS:	PE	60.0	1,148.5							1,208.5
	RW	3,000.0								3,000.0
	C						9,000.0		9,000.0	18,000.0
	Total	1,550.0	0.0	500.0	200.0	0.0	1,600.0	0.0	200.0	4,050.0

Surface Transportation Program MAP-21

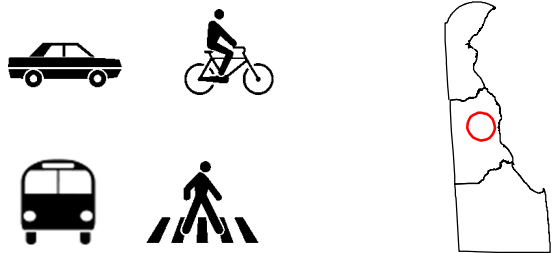
Project Funding Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
WEST CAMDEN BY-PASS:	PE	260.0	1,040.0	99.6	398.3					1,797.9
	RW	3,500.0		1,500.0						5,000.0
	C						15,000.0		10,000.0	25,000.0
	Total	3,760.0	1,040.0	1,596.6	398.3	0.0	15,000.0	0.0	10,000.0	31,797.9

EAST CAMDEN BY-PASS:

Project Description: The Town of Camden has experienced traffic growth as development has occurred west of RT13. The Town has worked with the department to lessen the impact of traffic congestion and large trucks on the small Main Street and adjoining historic properties. Funding is requested to provide a new connection from US 13 to Lebanon Road (SR 10) and Rising Sun Road.

Project Justification: This project is part of the Camden Bypass Study that was adopted into the Town of Camden's Comprehensive Plan. The purpose of the project is to increase safety and reduce traffic congestion along SR10 through the Town of Camden and improve traffic operations at the US13/SR10 intersection. Failing intersection and roadway level of service along SR10 from US13 to the west is not solved by making improvements to US13. SR10 is used by vehicles as a through movement with no stops within Town adding to the number of vehicles using the roadway. This additional congestion adds to the crashes that occur along this roadway.

County:	Kent
Municipality:	Dover
Funding Program:	Road System – Collectors
Functional Category:	Management
Representative District:	31
Senatorial District:	17
Estimated Cost:	\$18,486,151



EAST CAMDEN BY-PASS

Project Authorization Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
EAST CAMDEN BY-PASS:	PE	300.0								300.0
	RW									0.0
	C					3,000.0	400.0		9,000.0	12,400.0
	Total	300.0	0.0	0.0	0.0	3,000.0	400.0	0.0	9,000.0	12,700.0

Project Funding Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
EAST CAMDEN BY-PASS:	PE	845.7								845.7
	RW	900.0								900.0
	C					1,600.0	6,400.0	1,400.0	5,600.0	15,000.0
	Total	1,745.7	0.0	0.0	0.0	1,600.0	6,400.0	1,400.0	5,600.0	16,745.7

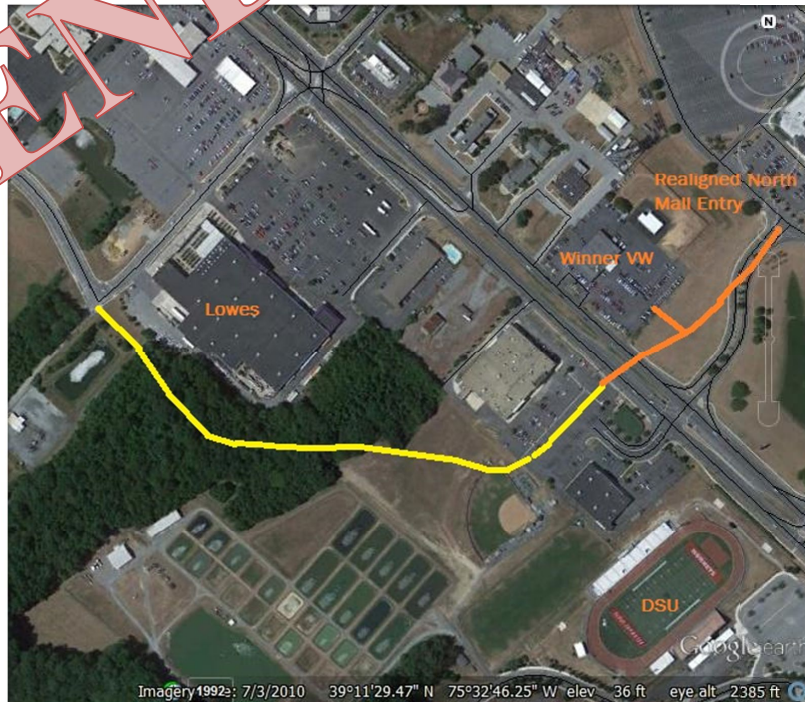
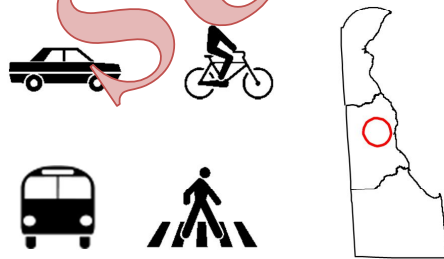
ROAD SYSTEM:
LOCAL ROADS

CRAWFORD CARROLL ROAD EXTENSION

Project Description: Funding is requested to improve vehicle, pedestrian, and bicycle travel along Crawford Carroll Road Extended from Rustic Lane, behind the Lowes Store ultimately to extend through the parking lot of the Home Goods/Pet Smart stores in North Dover. The improvements will involve creating an extended Crawford Carroll Road of two 11-foot lanes with two 5-foot shoulders, installing curbs, sidewalks and bike lanes on one or both sides, and addressing closed drainage, traffic calming, and safety improvements.

Project Justification: A Crawford Carroll Road extension has gained importance with the Delaware State University acquisition of the former Sheraton Hotel for student housing and event space. Students living in the facility are using the US13 corridor for both vehicular and pedestrian access to campus.

County: Kent
Municipality: Dover
Funding Program: Road System –Local
Functional Category: Expansion
Representative District: 31
Senatorial District: 17
Estimated Cost: \$5,400,000



The three other projects cited,

The Duck Creek Road project was added

The N. Main St. Smyrna project was added

The Peach Tree Run (all) project was added, from Voshell Mill Road to Irish Hill Road

Did not have expenditures during the period of the TIP Amendments and so don't need to be reported.

TRANSIT SYSTEM: FACILITIES

TRANSIT FACILITIES: DOVER FACILITY RENOVATIONS

PROJECT DESCRIPTION: Capital modifications to transit facilities to provide adequate facilities for the Kent County buses.

PROJECT JUSTIFICATION: Improvements made to facilities that had experienced deferred maintenance.

County: Kent
Funding Program: Transit System – Facilities
Functional Category: Expansion
Representative District: 31
Senatorial District: 17
Estimated Cost: \$6,021,222

Project Funding Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
DOVER MAINTENANCE FACILITY RENOVATIONS	PE	319.2								319.2
	C	3,360.0		1,608.1						4,968.1
	Maintenance	500.0								500.0
	Total	4,179.2	0.0	1,608.1	0.0	0.0	0.0	0.0	0.0	5,787.3

TRANSIT SYSTEM: VEHICLES

TRANSIT VEHICLE REPLACEMENT (2) 30' Buses KC FY22

PROJECT SCOPE/DESCRIPTION: This project will purchase two 30-foot buses to provide fixed route service for Kent County.

PROJECT JUSTIFICATION: DTC's business plan recommends scheduled replacement of fixed route service buses.

County: Kent
Funding Program: Transit System – Vehicles
Functional Category: Expansion
Representative District: 28, 29, 30, 31, 32, 34
Senatorial District: 14, 15, 16, 17
Estimated Cost: \$1,078,400.00



VEHICLE REPLACEMENT

Project Authorization Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
TRANSIT VEHICLE REPLACEMENT (2) 30' Buses KC FY22	PRO	215.7	862.7							1,078.4
	Total	215.7	862.7	0.0	0.0	0.0	0.0	0.0	0.0	1,078.4

Project Funding Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
TRANSIT VEHICLE REPLACEMENT (2) 30' Buses KC FY22	PRO			215.7	862.7					1,078.4
	Total	0.0	0.0	215.7	862.7	0.0	0.0	0.0	0.0	1,078.4

TRANSIT VEHICLE REPLACEMENT (7) 29' Low-Floor Buses KC FY22

PROJECT SCOPE/DESCRIPTION: This project will purchase seven 29-foot low-floor buses to provide fixed route service for Kent County.

PROJECT JUSTIFICATION: DTC's business plan recommends scheduled replacement of fixed route service buses.

County: Kent
Funding Program: Transit System – Vehicles
Functional Category: Expansion
Representative District: 28, 29, 30, 31, 32, 34
Senatorial District: 14, 15, 16, 17
Estimated Cost: \$3,679,424.00



VEHICLE REPLACEMENT

Project Authorization Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
TRANSIT VEHICLE REPLACEMENT (2) 30' Buses KC FY22	PRO	735.9	2,943.5							3,679.4
	Total	735.9	2,943.5	0.0	0.0	0.0	0.0	0.0	0.0	3,679.4

Project Funding Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
TRANSIT VEHICLE REPLACEMENT (2) 30' Buses KC FY22	PRO			735.9	2,943.5					3,679.4
	Total	0.0	0.0	735.9	2,943.5	0.0	0.0	0.0	0.0	3,679.4

ROAD SYSTEM:

BRIDGES & DAMS

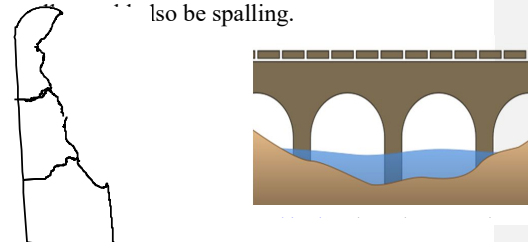
BRIDGES:

Bridges are being treated as a category of projects in the DelDOT CTP. The TIP will represent the bridge projects in a similar manner; an overall expense and a list of included bridge projects.

PROJECT SCOPE/DESCRIPTION: Typically replace the existing corrugated metal pipe arches with a structure. The replacement structure will be concrete box beams on abutments with concrete wingwalls. Additional work includes placing riprap for scour protection and installing guardrail as necessary. The work will be performed under a full road closure.

PROJECT JUSTIFICATION: The existing pipes are found to be structurally deficient and were selected by the Pontis Bridge Management System for work. They have a low sufficiency rating and they are ranked on the latest DelDOT Bridge Deficiency List. Typically there would be numerous perforations along the pipes and a deep pitting. The work also be spalling.

County: Kent
Funding Program: Road System – Bridge
Functional Category: Management
Estimated Cost: \$18,570,877
MPO Priority Rating: N/A (Bridge)



Project Authorization Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
BRIDGES	PE									0.0
	RW	0.0						100.0		0.0
	C	800.0	3,200.0					320.0	1,280.0	5,700.0
	Total	20.0	0.0	1,470.0	4,480.0	0.0	0.0	0.0	0.0	5,970.0

Federal Funding Program: Surface Transportation Program

Project Funding Schedule (X \$000)										
Project	Phase	FY 2021 State/ Other	FY 2021 Federal	FY 2022 State/ Other	FY2022 Federal	FY 2023 State/ Other	FY 2023 Federal	FY 2024 State/ Other	FY 2024 Federal	FY 2021- 2024 Total
BRIDGES	PE	50.0		300.0		300.0		150.0		800.0
	RW	40.0		20.9				100.9		161.8
	C	25.6	39.2	800.0	3,200.0					4,064.8
	Total	115.7	39.2	1,120.9	3,200.0	300.0	0.0	250.9	0.0	5,026.6

Bridges scheduled for repair in the period of the TIP, FY2021-FY2024:

BR 2-031A on Irish Hill Road over Double Run Creek Total
BR 2-050A on SR8 Halltown Road over Beaverdam Ditch
BR 2-052B on K052B Westville Road over Almshouse Branch
BR 2-108B on K108, Firetower Road over Tributary to Cow Marsh Ditch
BR 2-118A on K118 Coon Den Road over Nanticoke River
BR2-305B ON S308 Fisher's Bridge over Marshyhope Creek Total
Rehabilitation of Bridges 2-356B&C on SR10 Lebanon Road
BR2-870A ON K870 Quail Run over Issac Branch
Bridge Replacements, Total