

September 22, 2021

Mr. Gregory Murrill  
Division Administrator  
Attn: Dr. Kwame Arhin  
Federal Highway Administration  
Maryland Division  
George H. Fallon Federal Building  
31 Hopkins Plaza, Suite 1520  
Baltimore MD 21201

Ms. Terry Garcia Crews  
Regional Administrator  
Attn: Mr. Ryan Long  
Federal Transit Administration, Region III  
1835 Market Street, Suite 1910  
Philadelphia PA 19103-2968

Dear Mr. Murrill and Ms. Crews:

The Maryland Department of Transportation (MDOT) hereby amends the Fiscal Year (FY) 2019 – 2022 Maryland Statewide Transportation Improvement Program (STIP) to reflect the addition of two projects “Work Zone Data Exchange Demonstration” and “eConstruction Change Order Automation” to the Highway portion of the Fiscal Year (FY) 2019 – 2022 STIP. The MDOT has designated this amendment as Control #19-141.

This amendment adds a total of \$800,000 for the two projects. The supporting documentation is attached.

<b>Project Name</b>	<b>STIP #</b>	<b>Funding Source</b>	<b>FY21-FY24 Net Federal Change</b>
Work Zone Data Exchange Demonstration	AT020G	STBG	\$250,000
eConstruction Change Order Automation	AI2201	AID	\$550,000

Mr. Gregory Murrill  
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The Maryland Statewide Transportation Improvement Program continues to be fiscally constrained.

Should you have additional questions or concerns, please contact Mr. Ian Beam at 410-865-1280, toll free 888-713-1414 or via e-mail at [ibeam@mdot.state.md.us](mailto:ibeam@mdot.state.md.us). Of course, please feel free to contact me directly.

Sincerely,

A handwritten signature in blue ink that reads "Tyson Byrne". The signature is fluid and cursive, with the first name "Tyson" and last name "Byrne" clearly legible.

Tyson Byrne  
Regional Planning Manager  
Office of Planning and Capital Programming

Attachment

cc: Mr. Ian Beam, Regional Planner, OPCP, MDOT

**MEMORANDUM**

**TO:** DIRECTOR HEATHER MURPHY  
OFFICE OF PLANNING AND CAPITAL PROGRAMMING  
MARYLAND DEPARTMENT OF TRANSPORTATION (MDOT)

**ATTN:** REGIONAL PLANNER IAN BEAN  
REGIONAL PLANNING MANAGER TYSON BYRNE  
REGIONAL PLANNER DAN JANOUSEK  
REGIONAL PLANNER KARI SNYDER

**FROM:** CHIEF MATT BAKER *MB*  
REGIONAL AND INTERMODAL PLANNING DIVISION (RIPD)

**SUBJECT:** REQUEST TO AMEND THE FY 2019-2022 MARYLAND STATEWIDE  
TRANSPORTATION IMPROVEMENT PROGRAM (STIP)

**DATE:** SEPTEMBER 20, 2021

**RESPONSE  
REQUESTED BY:** N/A

**PURPOSE OF MEMORANDUM**

To request the MDOT Office of Planning and Capital Programming approve and forward to the Federal Highway Administration (FHWA) for its approval the following STIP amendments.

**SUMMARY**

The MDOT State Highway Administration (MDOT SHA) hereby requests amendment of the FY 2019-2022 Maryland STIP to reflect the following two actions.

STIP	PROJECT	PHASE	NEW FUNDING
AT020G	Work Zone Data Exchange Demonstration	Other	\$250,000
AI2201	eConstruction Construction Change Order Automation	Other	\$550,000

*Work Zone Data Exchange Demonstration (AT020G)* – This requested amendment reflects the addition to the FY 2019-2022 Maryland STIP of a new project, AT020G, and the addition of \$250,000 to AT020G funding. This project enables MDOT SHA to publish a new work zone data exchange (WZDx)-compliant data feed in RITIS and will expand the quality of data that is sent to transportation stakeholders including private sector and media traveler information providers and state and local agencies' ATMS platforms. The funding added by this amendment covers MDOT SHA's programmed expenditures for FY 2022.

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*eConstruction Construction Change Order Automation (AI2201)* – This requested amendment reflects the addition to the FY 2019-2022 Maryland STIP of a new project, AI2201, and the addition of \$550,000 to AI2201 funding. This project enables MDOT SHA to fund development and accelerate deployment to automate and streamline MDOT SHA's construction change order process with the objective of generating a tool within MDOT SHA's eConstruction platform specifically process change orders to decrease paperwork, more effectively track change orders, and eliminate errors. The funding added by this amendment covers MDOT SHA's assumed expenditures for FY 2022-2023.

The attached Statewide TIP (STIP) reports document MDOT's requested amendments with respect to funding for the above projects. These requested actions will not impact scheduling or funding availability for other projects in the current STIP, which remains fiscally constrained. The amended funding does not affect the portion of federal funding programmed for transit or allocations of state aid to local jurisdictions in lieu of federal aid.

In addition, the Maryland Transportation Trust Fund (TTF) remains fiscally constrained. The TTF supports State transportation system operation and maintenance, MDOT administration, debt service, and capital projects. Semiannually, MDOT updates revenues and expenditures using two national forecasting companies' latest economic estimates. The MDOT published funding details in the FY 2021-2026 Consolidated Transportation Program (<http://www.mdot.maryland.gov/newMDOT/Planning/CTP/Index.html>) and FY 2019-2022 Maryland STIP ([http://www.mdot.maryland.gov/newMDOT/Planning/STIP\\_TIP/STIPandTIP.html](http://www.mdot.maryland.gov/newMDOT/Planning/STIP_TIP/STIPandTIP.html)).

Please amend the FY 2019-2022 Maryland STIP to reflect the funding information provided in the attachment. If you have any questions, please contact Mr. Matt Baker, MDOT SHA Regional and Intermodal Planning Division Chief, at 410-545-5668 or via email at [mbaker4@mdot.maryland.gov](mailto:mbaker4@mdot.maryland.gov).

#### **ATTACHMENTS**

- FY 2019-2022 Maryland STIP project AT020G report
- FY 2019-2022 Maryland STIP project AI2201 report

cc: Mr. Eric Beckett, Deputy Director, Office of Planning and Preliminary Engineering, MDOT SHA  
Stephen Bucy, P.E., Director, Office of Construction, MDOT SHA  
Mr. John Hampton, eConstruction Program Manager, Office of Construction, MDOT SHA  
Mr. Mohammed Raqib, Chief, Mobility, Planning, and Engineering Division, MDOT SHA

# MARYLAND STATEWIDE TIP FY 2019-2022

MDOT STIP # AT020G

**SUMMARY TABLE**

Project	Amendment Criteria	Conformity Status	Environmental Status	Current Funding Level (000s)		
				Federal	State/Local	Total
Work Zone Data Exchange Demonstration (AT020G)	A	n/a	n/a	\$ -	\$ -	\$ -
	Administration			Net Funding Change (000s)		
	MDOT SHA	Area/MPO	CTP Page	Federal	State/Local	Total
		Rural (Non-MPO)	tbd 2022 CTP	\$ 200	\$ 50	\$ 250

Description: This project enables MDOT SHA to publish a new work zone data exchange (WZDx)-compliant data feed in RITIS.

Justification: This project will expand the quality of data that is sent to transportation stakeholders including private sector and media traveler information providers and state and local agencies' ATMS platforms.

**INDIVIDUAL REQUEST FORM**

STIP/TIP Amendment Criteria	Current (000s)	Funding	FY 2019	FY 2020	FY 2021	FY 2022	Total
		<input checked="" type="checkbox"/> A) Adds new individual projects to the current STIP <input type="checkbox"/> B) Increase/decrease, scope change, advance, delay, or phase change <input type="checkbox"/> C) Removes or deletes individual listed project from the STIP <input type="checkbox"/> D) Other	<b>Total</b>	\$ -	\$ -	\$ -	\$ -
	Federal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	State/Local	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	<b>Total</b>	\$ -	\$ -	\$ -	\$ 250	\$ 250	\$ 250
	Federal	\$ -	\$ -	\$ -	\$ 200	\$ 200	\$ 200
	State/Local	\$ -	\$ -	\$ -	\$ 50	\$ 50	\$ 50
	<b>Total</b>	\$ -	\$ -	\$ -	\$ 250	\$ 250	\$ 250
	Federal	\$ -	\$ -	\$ -	\$ 200	\$ 200	\$ 200
	State/Local	\$ -	\$ -	\$ -	\$ 50	\$ 50	\$ 50



**PHASE DETAIL**

Current		FY 2019		FY 2020		FY 2021		FY 2022		TOTAL		
Phase	Funding	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Total
PP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RW		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CO		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	STBG	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	State	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Proposed		FY 2019		FY 2020		FY 2021		FY 2022		TOTAL		
Phase	Funding	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Total
PP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RW		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CO		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	STBG	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200	\$ -	\$ 200	\$ -	\$ 200
	State	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50	\$ -	\$ 50	\$ 50
<b>Total</b>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200	\$ 50	\$ 200	\$ 50	\$ 250

Change		FY 2019		FY 2020		FY 2021		FY 2022		TOTAL		
Phase	Funding	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Total
PP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RW		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CO		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	STBG	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200	\$ -	\$ 200	\$ -	\$ 200
	State	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50	\$ -	\$ 50	\$ 50
<b>Total</b>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200	\$ 50	\$ 200	\$ 50	\$ 250

# MARYLAND STATEWIDE TIP FY 2019-2022

MDOT STIP # AT020G (cont'd)

**TOTAL PROJECT COST**

Prior Cost (≤ FY 2018)		STIP Cost (FY 2019-2022)		Balance to Complete (≥ FY 2023)		Total Project Cost	
Federal	\$ -	Federal	\$ 200	Federal	\$ -	Federal	\$ 200
State/Local	\$ -	State/Local	\$ 50	State/Local	\$ -	State/Local	\$ 50
<b>Total</b>	<b>\$ -</b>	<b>Total</b>	<b>\$ 250</b>	<b>Total</b>	<b>\$ -</b>	<b>Total</b>	<b>\$ 250</b>

# MARYLAND STATEWIDE TIP FY 2019-2022

MDOT STIP # A12201

## SUMMARY TABLE

Project	Amendment Criteria	Conformity Status	Environmental Status	Current Funding Level (000s)			
				Federal	State/Local	Total	
eConstruction Construction Change Order Automation (A12201)	A	n/a	n/a	\$ -	\$ -	\$ -	
	Administration			Net Funding Change (000s)			
	MDOT SHA	Area/MPO	CTP Page	Federal	State/Local	Total	
			Rural (Non-MPO)	tbd 2022 CTP	\$ 220	\$ 55	\$ 275
Description:	This project enables MDOT SHA to fund development and accelerate deployment to automate and streamline MDOT SHA's construction change order process with the objective of generating a tool within MDOT SHA's eConstruction platform specifically process change orders to decrease paperwork, more effectively track change orders and eliminate errors.						
Justification:	By integrating an automated charge order workflow into MDOT SHA's eConstruction platform, MDOT SHA will be able to identify construction issues in the field and respond to these more efficiently through an automated change order approval process. This effort will not only speed processing but also create a centralized, auditable database system.						

## INDIVIDUAL REQUEST FORM

STIP/TIP Amendment Criteria		Funding				Total	
		FY 2019	FY 2020	FY 2021	FY 2022		
<input checked="" type="checkbox"/> A) Adds new individual projects to the current STIP <input type="checkbox"/> B) Increase/decrease, scope change, advance, delay, or phase change <input type="checkbox"/> C) Removes or deletes individual listed project from the STIP <input type="checkbox"/> D) Other	Current (000s)	<b>Total</b>	\$ -	\$ -	\$ -	\$ -	\$ -
		Federal	\$ -	\$ -	\$ -	\$ -	\$ -
		State/Local	\$ -	\$ -	\$ -	\$ -	\$ -
		<b>Total</b>	\$ -	\$ -	\$ -	\$ 275	\$ 275
		Federal	\$ -	\$ -	\$ -	\$ 220	\$ 220
		State/Local	\$ -	\$ -	\$ -	\$ 55	\$ 55
	Change (000s)	<b>Total</b>	\$ -	\$ -	\$ -	\$ 275	\$ 275
		Federal	\$ -	\$ -	\$ -	\$ 220	\$ 220
		State/Local	\$ -	\$ -	\$ -	\$ 55	\$ 55



## PHASE DETAIL

Current		FY 2019		FY 2020		FY 2021		FY 2022		TOTAL		
Phase	Funding	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Total
PP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RW		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CO		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	A/D	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	State	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Total</b>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Proposed		FY 2019		FY 2020		FY 2021		FY 2022		TOTAL		
Phase	Funding	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Total
PP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RW		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CO		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	A/D	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 220	\$ -	\$ 220	\$ -	\$ 220
	State	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55	\$ -	\$ 55	\$ 55
<b>Total</b>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 220	\$ 55	\$ 220	\$ 55	\$ 275

Change		FY 2019		FY 2020		FY 2021		FY 2022		TOTAL		
Phase	Funding	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Federal	State/Local	Total
PP		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PE		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RW		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
CO		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Other	A/D	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 220	\$ -	\$ 220	\$ -	\$ 220
	State	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55	\$ -	\$ 55	\$ 55
<b>Total</b>		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 220	\$ 55	\$ 220	\$ 55	\$ 275

# MARYLAND STATEWIDE TIP FY 2019-2022

MDOT STIP # A12201 (cont'd)

## TOTAL PROJECT COST

Prior Cost (≤ FY 2018)		STIP Cost (FY 2019-2022)		Balance to Complete (≥ FY 2023)		Total Project Cost	
Federal	\$ -	Federal	\$ 220	Federal	\$ 220	Federal	\$ 440
State/Local	\$ -	State/Local	\$ 55	State/Local	\$ 55	State/Local	\$ 110
<b>Total</b>	<b>\$ -</b>	<b>Total</b>	<b>\$ 275</b>	<b>Total</b>	<b>\$ 275</b>	<b>Total</b>	<b>\$ 550</b>