



2021-2024 TIP Amendment: MDOT MTA Low or No Emission Bus Program

September 2020



Contents



- Background
- Apportionment
- Anticipated Schedule
- Benefit



Background



- **MTA was awarded funds from the discretionary Low or No Emission Vehicle Program**
- **MTA will purchase three new electric buses and associated charging infrastructure.**

Apportionment



- This amendment adds \$2.95 million in FTA Section 5339(c) funds along with \$2.95 million in state matching funds to the 2021-2024 TIP.

Anticipated Schedule



Timeline Description	Timeline Item Date
Grant Award	June 2020
Procure Buses	August 2021
Charging Infrastructure Design	November 2021
Charging Equipment and Construction/Installation Procurement	February 2021
Construction/Installation of Charging Equipment	December 2022
Substantial Completion, Buses in Service	December 2022
Project Closeout	October 2023

Benefit



- **First step in transitioning our fleet to low or zero emission vehicles**
- **This FTA grant funding will provide MDOT MTA the opportunity to purchase, test and evaluate zero-emission technology**

For More Information

Lara Bachman | Capital Program Analyst

443-487-7485 | lbachman@mdot.maryland.gov





2021-2024 TIP Amendment: Phoenix Road Bridge over Gunpowder Falls & NCR Trail

September 2020



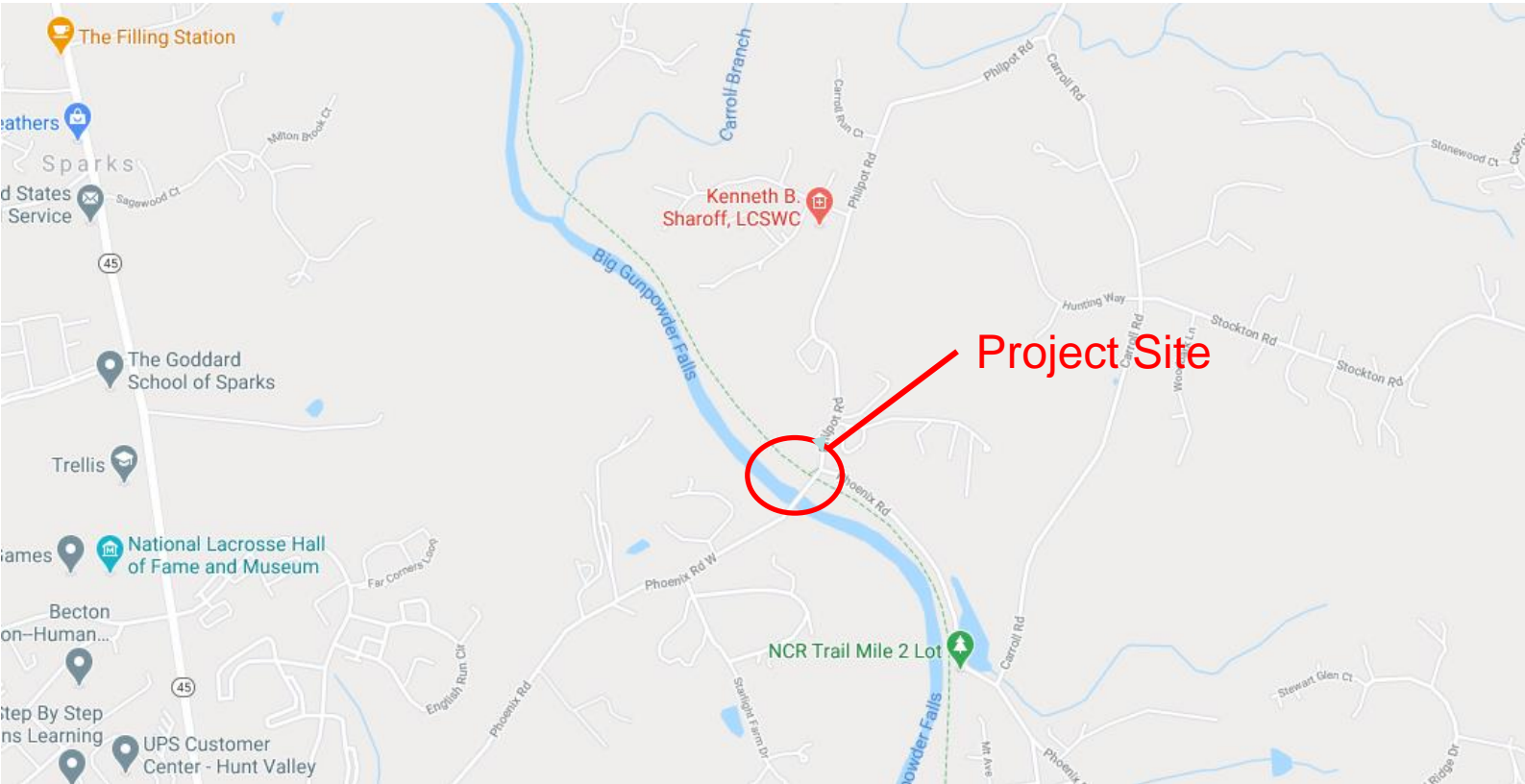
Phoenix Road Bridge over Gunpowder Falls & NCR Trail



AMENDMENT PURPOSE

- To add project to the 2021-2024 TIP by shifting construction funding from FY 2020 to FY 2021
- Shifting \$12 million in total (*\$9.6 million federal STBG/\$2.4 million local matching*)

Phoenix Road Bridge over Gunpowder Falls & NCR Trail



Phoenix Road Bridge over Gunpowder Falls & NCR Trail



REASON FOR MOVING CONSTRUCTION FUNDING

- Delays in right-of-way acquisition
- Project Advertisement was originally scheduled for FY2020, early 2020.
- Project Advertisement will be late 2020, in FY 2021

Phoenix Road Bridge over Gunpowder Falls & NCR Trail



BRIDGE ELEMENTS

- **Bridge no BC5701001 (Phoenix Road over Gunpowder Falls & NCR Trail)**
 - Poor rated bridge built in 1922; rehabilitated in 1982
 - Biennial bridge inspection in 2010 noted severe corrosion and deterioration to floor beams
 - After inspection, bridge changed to one-way traffic controlled by traffic signals at each end

Phoenix Road Bridge over Gunpowder Falls & NCR Trail



- **Advertisement: upon BRTB and federal approval of TIP amendment**
- **Construction notice to proceed: Spring 2021**
- **Project completion: 2023**

For More Information

Christopher Brown, P.E. | BCDOT Project Engineer

410-396-6935 | Christopher.brown@baltimorecity.gov

Kevin Sabolcik, P.E. | Section Chief, Balt. Co. DPW

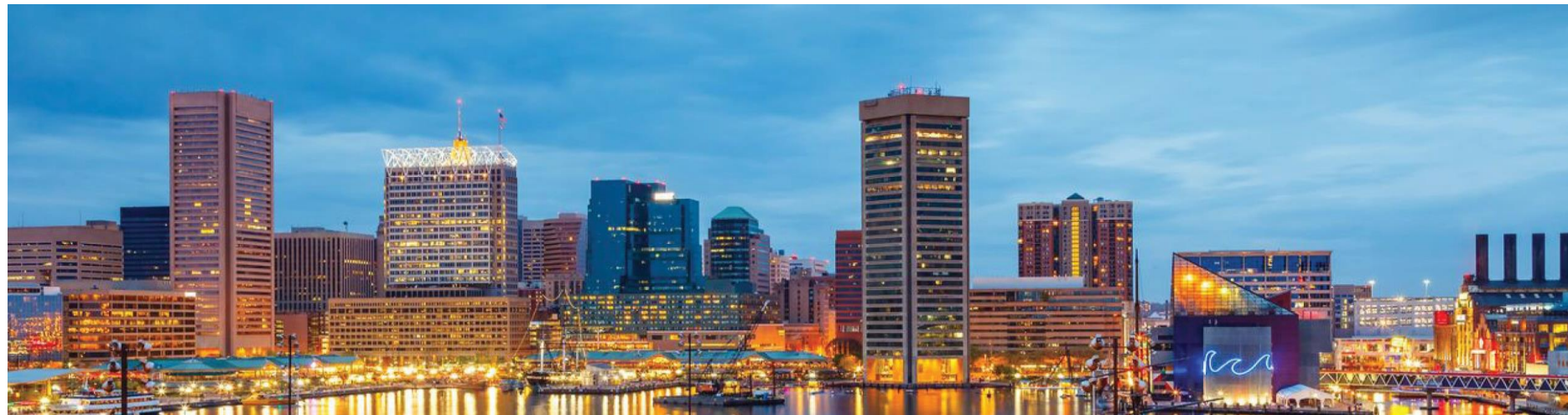
410-887-3737 | Ksabolcik@baltimorecountymd.gov





Baltimore City Signal Timing Optimization

Project 1284

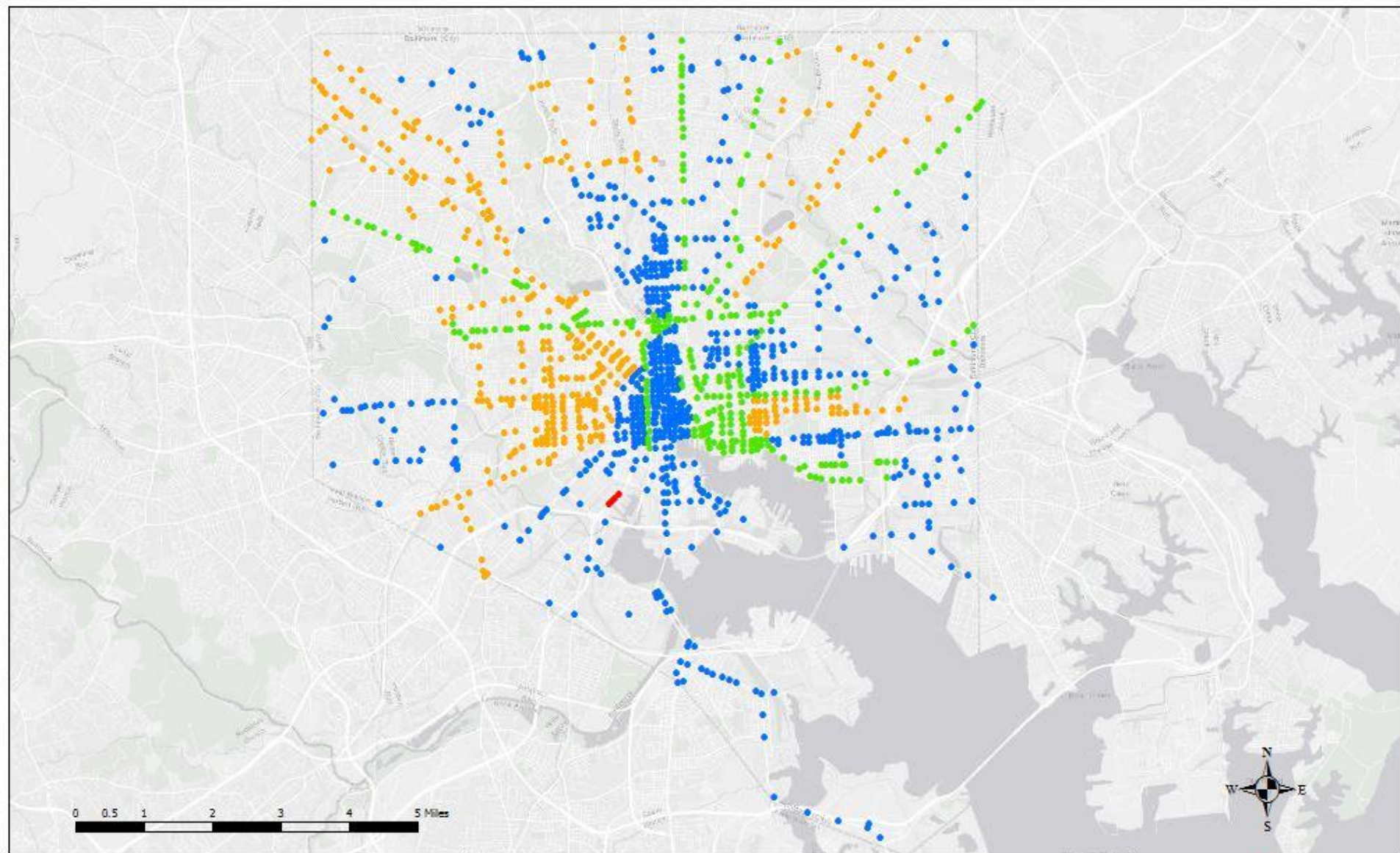


Project Scope



- Signal Timing Optimization at 1,100 Intersections
- Time of Day/ Events
 - AM Peak,
 - Mid-day,
 - PM Peak,
 - Weekends,
 - Overnight, and
 - Special events
 - Orioles baseball,
 - Ravens football





Baltimore Signal Timing Optimization Approach

Shoestring Optimization (405 Signals) ●

Optimized < 3 Years (292 Signals)
not in project

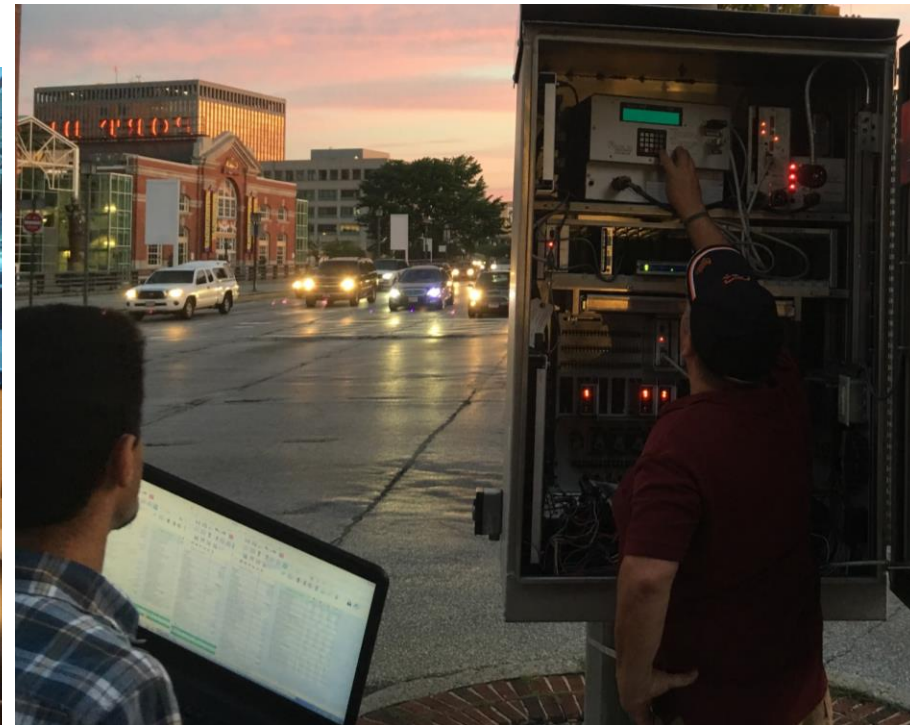
Full Optimization (655 Signals) ●

Adaptive (4 signals) ●

Project Description



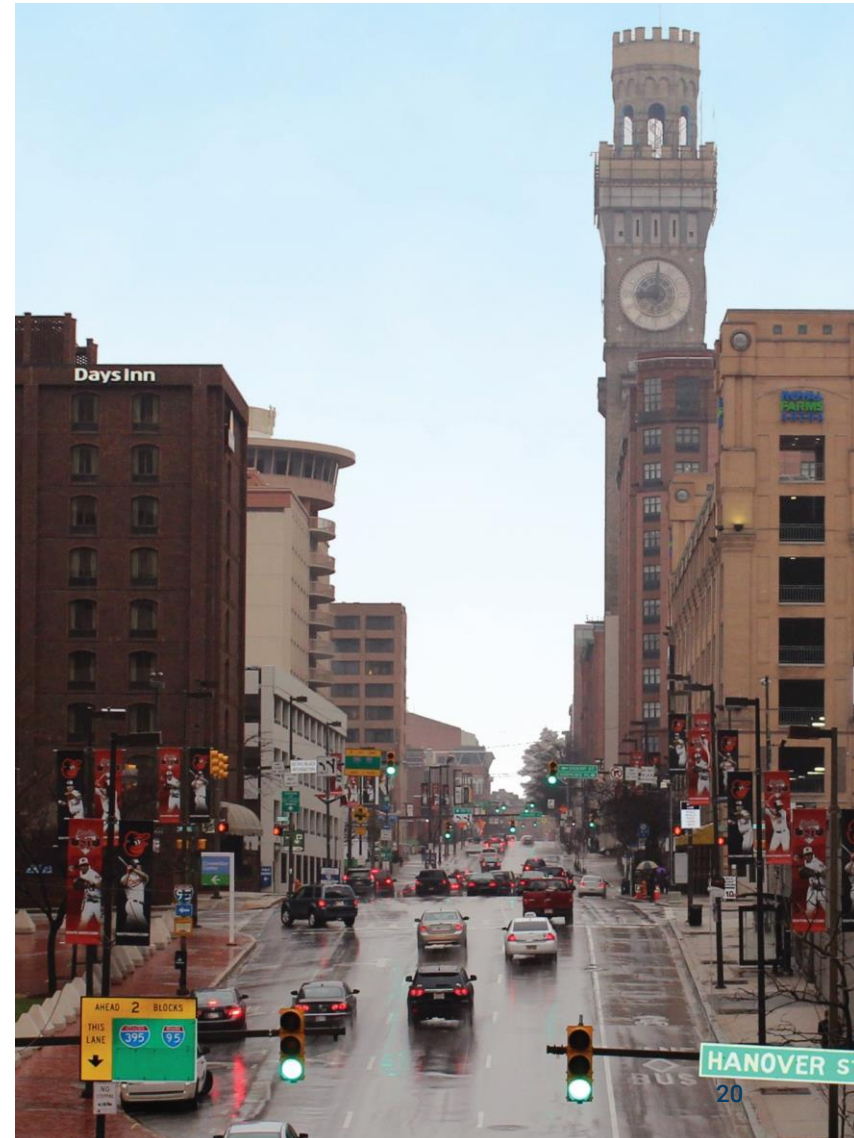
- Data collection
- Inventory and Asset Management of Signal Timing Data from TMC & Field
- Develop Citywide Simulation Models to Optimize Signal Timing & Phasing



Project Description (Cont.)



- Implementation of Optimized Signal Timing
- Field Observation, Before & After Timing Implementation
- Fine-Tuning of Optimized Signal Timings
- Performance Monitoring
- Cost-Benefit Analysis
- Staff Training on Controller Firmware, Programming, & Optimization





Project Cost & Schedule

- Total Cost: \$4.5M
 - Federal Aid: \$3.6M
 - Local Funds: \$900,000
- Notice to Proceed: Expected Early 2021
- Completion: Expected End of 2023

