



# Baltimore City DOT

Traffic Signals CIP Projects



# Project # 1284 Baltimore City Traffic Signal Timing Optimization


Approximately 1100 intersections have been proposed for timing optimization aimed at managing and minimizing congestion especially at different peak hours of the day.

1. Timing optimization citywide after evaluation of current condition and traffic counts (CBD, Gateways and remaining Network)
  2. Calculate and preset before and after conditions before and after optimization
  3. Develop flush plans for special events and congestion management
  4. Provide training to city staffs under the contract
  5. Optimization to be done in several phases starting with CBD and gateways
- **Funding:** Federal 80/20 split
  - **Amount:** \$4.5M
  - **Current Status:** Optimization project in process awaiting approval
  - **Anticipated NTP:** Early next year



# TR-15301 - Construction of CCTV Cameras and Signal Rewiring Citywide

- ▶ 8 new camera sites including two on I-83 high mast
- ▶ Upgrade 23 existing camera sites including new camera, Ethernet switches and
- ▶ New Video Management System – For camera control and integration with Video Wall
- ▶ Rewiring of 56 Signalized intersections – Planned replacements of damaged communication cabling aimed at improving the overall function of these intersections through effective communication.
- ▶ 400 GPS Unit Replacement – For integration with signal controllers to ensure controller time clock stays in sync
- ▶
- ▶ **Funding:** Federal 80/20 split
- ▶ **Amount:** Consultant Estimate \$2.7M
- ▶ **Current Status:** To be Advertised October, 2020.



# TR-17305 – Eight (8) Signal Upgrades


## Scope of Work

- ▶ **Scope of Work**
- ▶ Replace aging signalized intersection infrastructure at 8 locations throughout the City. Work includes new foundations, traffic signals, signing, pedestrian indications as well as curb and ramp upgrades to ensure ADA compliance.
  
- ▶ **Funding:** Federal 80/20 split
- ▶ **Amount:** Consultant Estimate \$2.4M
- ▶ **Current Status:** 95% plans sent to SHA end of August 2019



# TR-19309 – 20 Signal Reconstruction/Upgrades

- ▶ Replace aging signalized intersection infrastructure at 20 locations throughout the City.
- ▶ **Funding:** Federal 80/20 split, estimated amount \$6.7M
- ▶ **Current Status:** 95 % design review comments are being incorporated



# TR 15304 - ITS Deployment and Upgrade Citywide

- ▶ 5 new CCTV cameras on I-83 and Russell Street
- ▶ **Funding:** Federal 80/20 split
- ▶ **Amount:** Budgeted \$1.0M
- ▶ **Current Status:** 95% design sent for local review



# TMC/ATMS Upgrade

- ▶ Develop System Engineering document to upgrade TMC Advanced Traffic Management System (ATMS) and field controller. The system includes software and computer hardware which includes multiple servers.
- ▶ **Funding:** Federal 80/20 split
- ▶ **Amount:** \$4M to \$4.5M
- ▶ **Current Status:** evaluation of multiple vendors completed
- ▶ Working on system engineering document



# TR 15302- Installation Of Fiber Optic and Copper Communications System Citywide

- ▶ Upgrade, Replacement and Repair damaged communication cables throughout the City's Central Business District (CBD), Gateways and several other areas
- ▶ Replacement of large trunk lines with 144 count Fiber Optic Backbone cable and upgrade area cabinets
- ▶ Work on this project also includes and require upgrades within the confines of the traffic signal controller cabinets to existing modems, addition of Ethernet switches in preparation for use of IP addresses.
- ▶ **Funding:** Federal 80/20 split
- ▶ **Amount:** Estimate \$4.5M
- ▶ **Current Status:** PS&E package sent to under review by SHA



