

Holland Tunnel

REPLACEMENT OF THE SUPERVISORY CONTROL SYSTEM

PROJECT AUTHORIZATION

***Committee on Construction
May 31, 2012***

Background

- Monitors and Controls 25 Sub-systems.
- Sub-systems Monitored and Controlled Include Fire Protection, Mechanical, Electrical and Traffic.
- Most of the Existing System is Over 25 Years Old.
- Exceeded Design Life.
- Technologically Obsolete.
- Planning Authorization – April 2011

Existing Conditions



Existing Control Board



Relay Panel – Existing
Copper Wire
Communication Network

Need for Project / Scope of Work

Need for the Project

- Provide Reliable Monitoring and Control using a Fiber Optic Network
- Increase Operational Effectiveness
- Reduce Maintenance and Operation Costs
- Allow for Future Expansion

Scope of Work

- Replace the existing Supervisory Control System with a computerized system and integrate it with the existing Automated Control System
- Transfer existing supervisory control sub-systems onto the existing Automated Control System's fiber optic network and off of the copper cable network
- Modernize the existing Supervisory Control Center and create a back-up Control Center for tunnel operations in the event of emergency conditions
- Provide final design, cost estimating, and construction staging details

Cost / Schedule / Economic Impact

- **Project Authorization: \$34.3 million**
 - **Staff costs: \$3.3 million**
 - **Consultants: \$1.4 million**

- **Forecast Schedule**
 - **Complete Final Contract Documents: 1st Quarter 2014**
 - **Construction Contract Award: 2nd Quarter 2014**
 - **Construction Completion: 2nd Quarter 2017**

- **Economic Impact**
 - **Jobs Years: 160**
 - **Wages: \$12 million**
 - **Economic Activity: \$53 million**