

Massachusetts Bay Transportation Authority

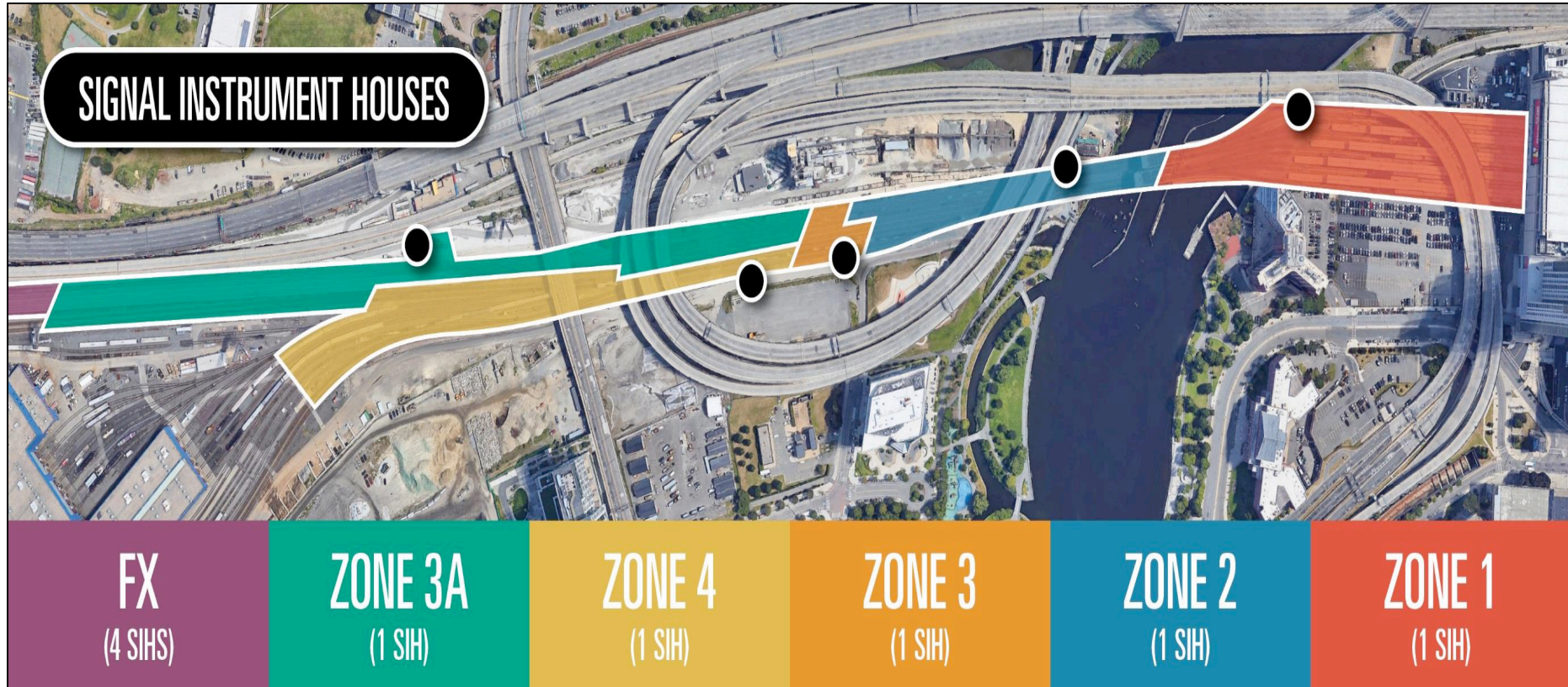
MBTA Contract No. Q60CN01: North Station Terminal Area Signal System Improvements

May 20, 2019



OVERVIEW

- Today's board action will allow for construction of upgrades to the North Station terminal area's existing signal systems. This project encompasses all track approaches to North Station.





Construction Scope

The project consists of replacing antiquated signaling technology that controls all tracks in and around North Station with state-of-the-art microprocessor technology contained within nine (9) new factory-wired signal instrument houses that control the five (5) major interlocking switching areas around North Station. The project also includes:

- New fiber optic network connecting the SIH's to one another and back to the Commuter Rail Operations Control Center (CROCC).
- New interface cable between new and existing SIH's to control existing wayside equipment (that will not be replaced under this contract).
- Replacement and relocation of signaling equipment on drawbridge to facilitate that future construction project.
- Two new power switch crossovers to facilitate more routing options



Project Benefits

- A modern signal system that will increase service reliability and be more adaptable to future operational requirements at North Station
- Increased long-term reliability through the installation of equipment that requires less preventive maintenance and is less prone to failures
- Reduced maintenance costs
- Increased system resiliency (critical equipment will be located above the 500 year flood zone)
- Allow for more efficient phasing of the track alignment modifications that will be required for maintaining service during the future North Station Drawbridge Replacement Project



Construction Procurement

- Project was advertised on March 21, 2019
- Engineer's Estimate was \$26,866,000
- Bid Opening was on May 14, 2019
- Two (2) Bids were received:
 - \$26,515,500** **Fischbach and Moore Electric (Low Bidder)**
 - \$39,416,700 Mass Electric Construction Co.
- A bid analysis has been completed and Fischbach and Moore Electric is the recommended low responsible bidder.



Request of the Fiscal and Management Control Board

Staff request that the Fiscal and Management Control Board authorize the MBTA General Manager, or his designee, to award and execute MBTA Construction Contract No. Q60CN01: North Station Terminal Area Signal System Improvement Project With Fischbach and Moore Co. for an amount not to exceed \$26,515,500.