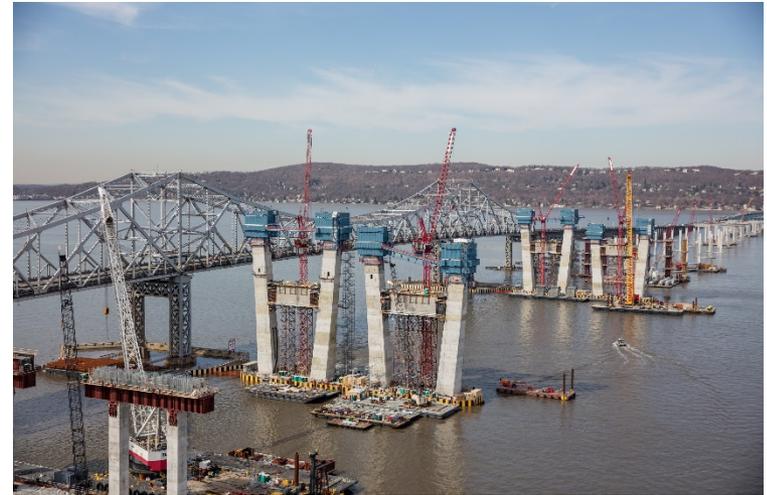


4. NNYB Project Update

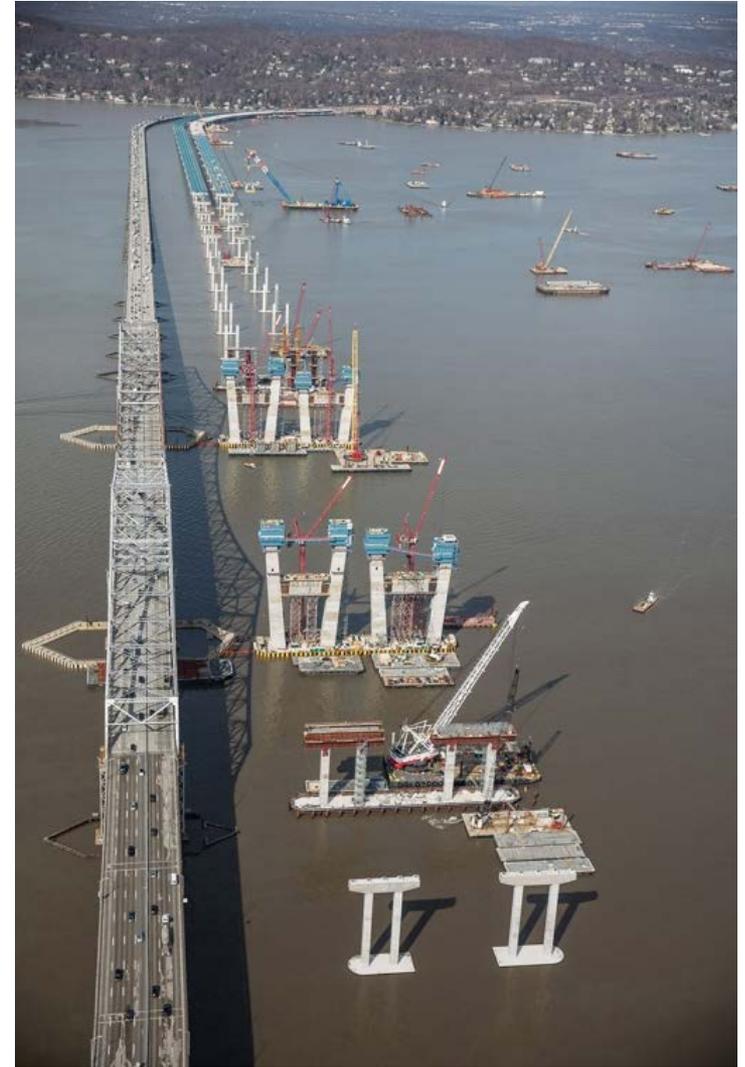
Major Design Elements of the New NY Bridge

- Twin bridges: 100-year design life without need for major capital investments
- 3.1 miles long with reconfigured landings to accommodate all-electronic toll collection
- 45 spans with required shipping distance between pier foundations and main channel clearance
- Cable stay bridge form: main spans comprised of vertical towers with cables supporting the deck
- New bridge towers are angled, making the form internationally unique while having the strength to accommodate future transit
- Approach spans are steel and concrete composition, with about 350 feet between piers (much more than the current bridge)



Other Important Design Features

- 8 general purpose lanes with no need for the current movable barrier system
- Emergency access lanes and wide shoulders to manage traffic incidents and emergencies
- Shared use path accommodating bicycles and pedestrians, including scenic overlooks
- Conformance to current seismic, safety and geometric requirements



Protecting Our Investment

- Quality Management
- Risk Management
- Training – Operation, Maintenance, Inspection
- Structural Health Monitoring System



Benefits of Structural Health Monitoring

- Provides a baseline response of the structure
- Specific structural element performance
 - Bearings
 - Joints
 - Cables
- Asset Management
 - Monitor long-term performance
 - Optimize inspection program
 - Assist Operation and Maintenance Decisions



ITS in OP Center
(Albany)