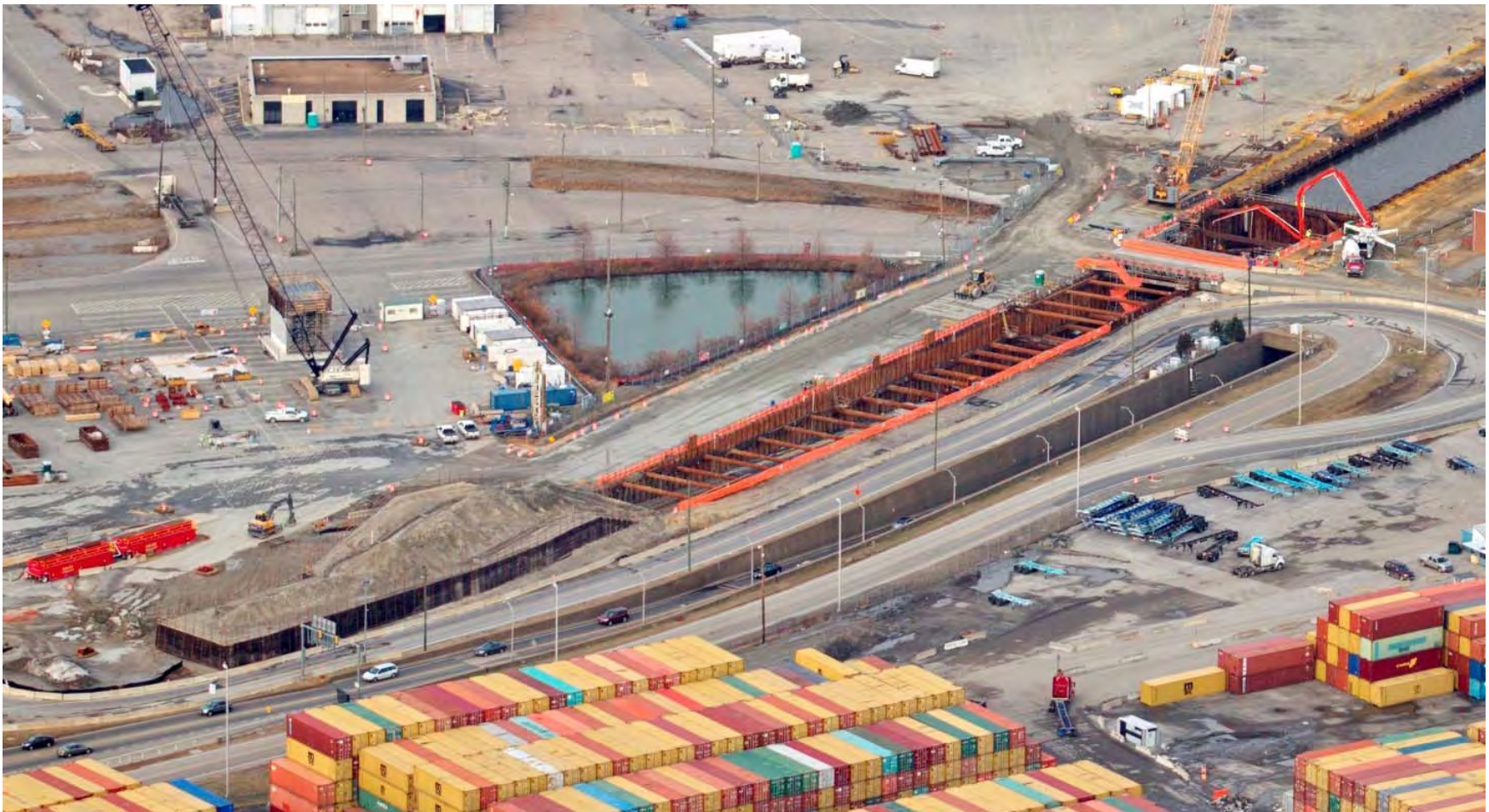
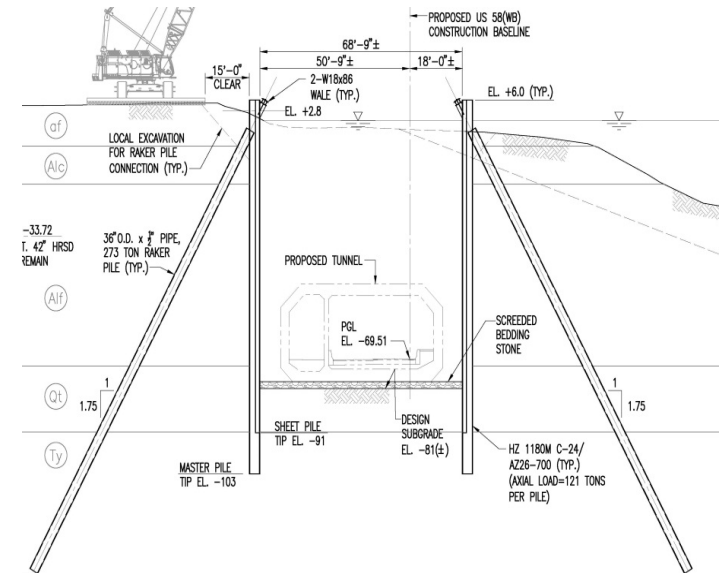


New MTT - Approaches



Marine – Raker Pile Installation



New MTT - Approaches

- Excavation of Approach following installation of SOE and concrete piles
- **Struts and Walers to brace excavation**
- Placement of Inverts, Walls, Roofs



New MTT - Approaches

- Excavation of Approach following installation of SOE and concrete piles
- Struts and Walers to brace excavation
- **Placement of Inverts, Walls, Roofs**



Existing Tunnel Rehab and Upgrades

- Three existing tubes
 - Downtown Tunnel West Bound
 - Downtown Tunnel East Bound
 - Midtown Tunnel
- Scope of repair similar



Existing Tunnel Rehab and Upgrades

■ Scope

- Goal is to extend the useful life of existing assets
- Structural repairs
 - Delaminated and spalled concrete
- Goal to meet NFPA 502
 - (100 Megawatt fire)
- Ventilation upgrades
- ITS system
- Lighting Upgrades



Schedule – Project Wide

[illegible]

SKW Constructors – Brent Hunt

- Project Manager – MLK Extension

- Skanska USA Civil Southeast

 - Past Projects

 - Huguenot Bridge, Richmond, VA (Project Manager)

 - Bridge of Lions, St. Augustine, FL (Project Manager)

 - Route 5 Bridge over Chickahominy River, James City County, VA (Project Manager)

 - APM Terminals Interchange, Portsmouth, VA (Project Engineer)

 - Pinner's Point Interchange, Portsmouth, VA (Assistant Project Manager)

MLK Extension – Project Wide



MLK Extension – Project Wide



MLK Extension

- Technical Requirements – Final Design Criteria MLK Extension
 - Designed to meet VDOT and AASHTO requirements
 - Standard VDOT project with few exceptions
 - Design-Build
 - Design Exception required at London Blvd Ramp
 - Proceed with existing ramp geometry (substandard)
 - DB Scope includes ROW Acquisition

MLK Extension – Design Considerations

- Construction through populated area
- Railroad Coordination
 - CSX
 - NPBL
- Historically significant sites
 - Mount Calvary Cemetery Complex
 - Potter's Field site
 - Unmarked graves
 - Protect from construction equipment

MLK Extension – Design Considerations

- Calvary Baptist Church
 - Preconstruction surveys
 - Seismic Monitoring during construction



MLK Extension – Design Considerations

■ Right of Way Acquisition

- Acquire property on behalf of the Commonwealth
- 69 Parcels
- 34 Structures to demolish
- Private Residential Homes
 - Relocate residents
 - Inspect homes, abate as necessary, then demolish
- Businesses
 - Similar process to residential properties
 - Additional work to coordinate movement of businesses
 - Vulcan Materials
 - Old Dominion Demolition

MLK Extension – Mainline US-58

■ General Information

- 1 mile of controlled access freeway
- 1.4 miles of elevated structure of varying width (1 to 3 lanes in each direction)
- Retaining Walls
 - MSE Wall
 - Geofoam
 - Other
- SWM Ponds
 - BMP Planting

MLK Extension – Mainline US-58

■ General Information

- 200 + Utility Relocations
 - Water, Sewer, Cox, Dominion, Verizon, Virginia Natural Gas
 - Modifications to existing 20" water line
 - Primary water system feeder to downtown Portsmouth
- Ground Improvements
 - Surcharges
 - Pile Supported Embankments

MLK Extension – Interchanges

■ I-264 Interchange

- New construction of 4 ramps between US-58 and I-264
- Roadway Widening of I-264 EB and WB
 - Des Moines Avenue overpass
 - Bridge over N&PBL
- ITS Relocation – overhead sign structure replacement



MLK Extension – Interchanges

■ I-264 Interchange

- Reconstruction of Frederick Blvd off ramp
- Permanent closure of Des Moines Exit and South Street on ramp
- Pedestrian Bridge Replacement

