

# NASHVILLE DISTRICT UPDATE FOR TENNESSEE-TOMBIGBEE WATERWAY CONFERENCE

Joe M. Sahl  
Lieutenant Colonel, U.S. Army  
District Commander

Tim Fudge  
Chief, Operations Division

Date: 12 August 2022



US Army Corps  
of Engineers®



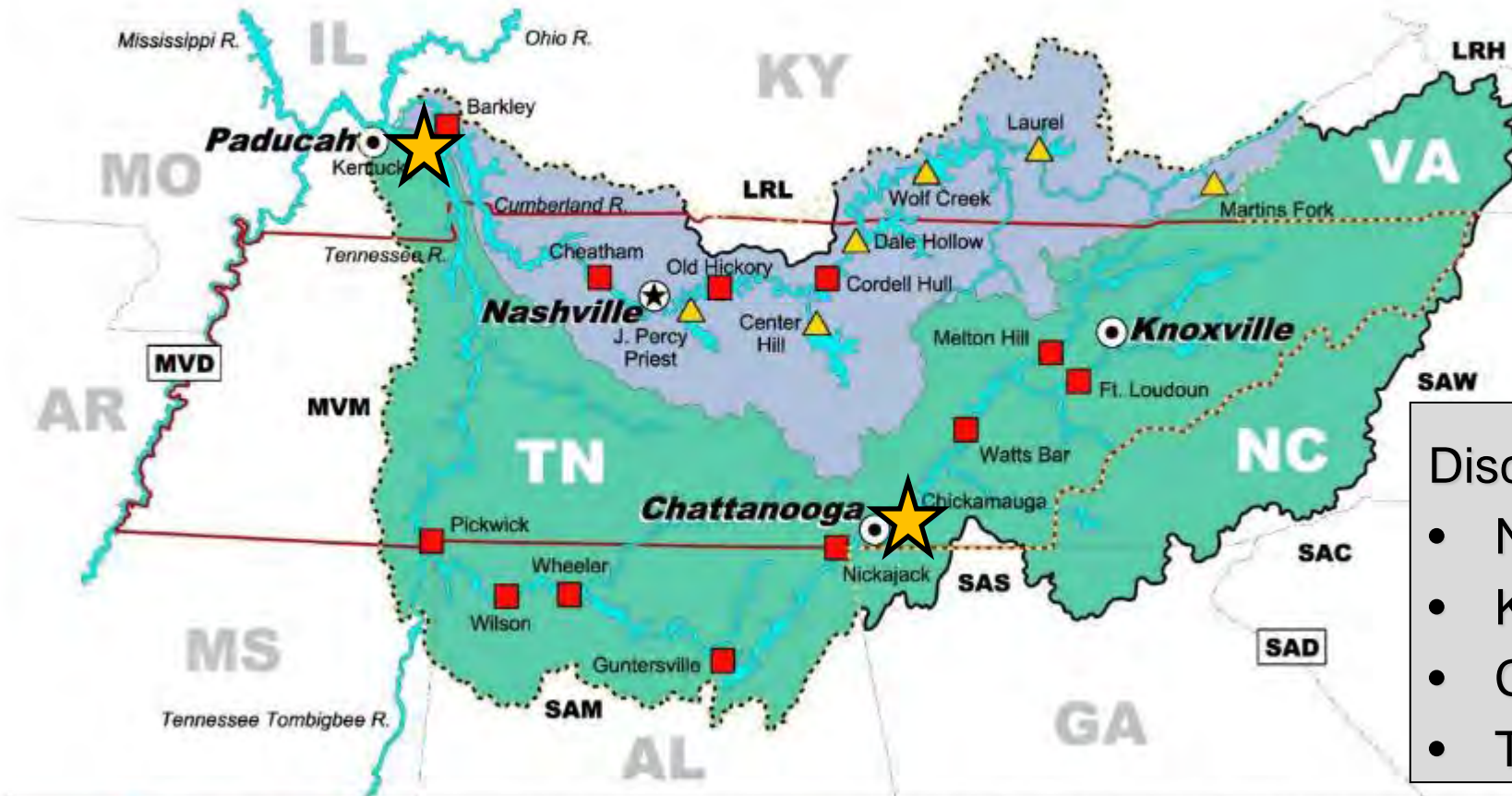




# NASHVILLE DISTRICT AREA OF RESPONSIBILITY

## TENNESSEE AND CUMBERLAND RIVER NAVIGATION SYSTEMS

2



### Discussion/Updates:

- Nashville District
- Kentucky Lock Construction
- Chickamauga Lock Construction
- Tennessee River O&M Program



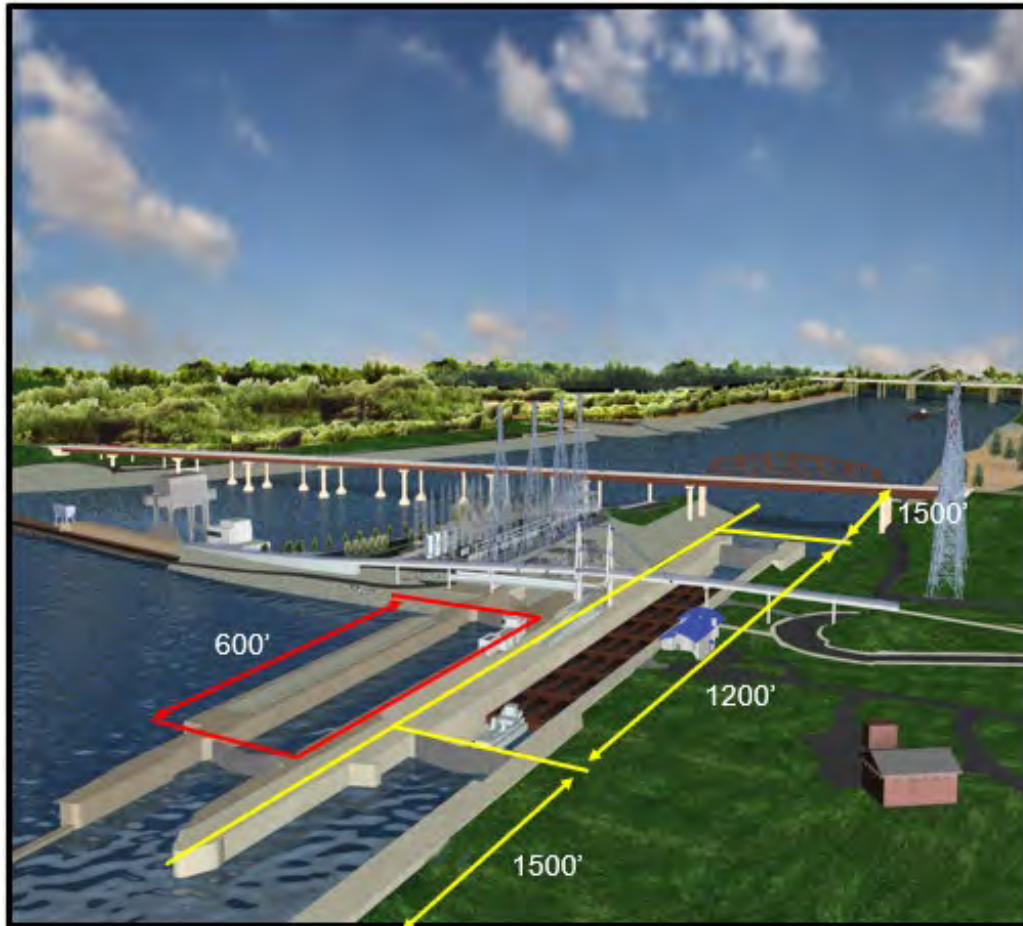
# RENEWED INVESTMENT IN NAVIGATION INFRASTRUCTURE

- ☐ The Corps of Engineers **justifies continued Operation and Maintenance** of Navigation (locks) through the volume & value of river traffic.
- ☐ **Changes in commodities** such as coal have influenced volume and value.
- ☐ **Replacement of commodities** with traffic such as shipping containers/finished goods is one opportunity to maintain river traffic.
- ☐ The proposed **study would assess opportunities for new or retrofitted infrastructure** to support a shift in types of river traffic on the TN & Cumberland Watersheds.
- ☐ The study is cost-shared 50% Federal (Corps) / 50% non-Fed.





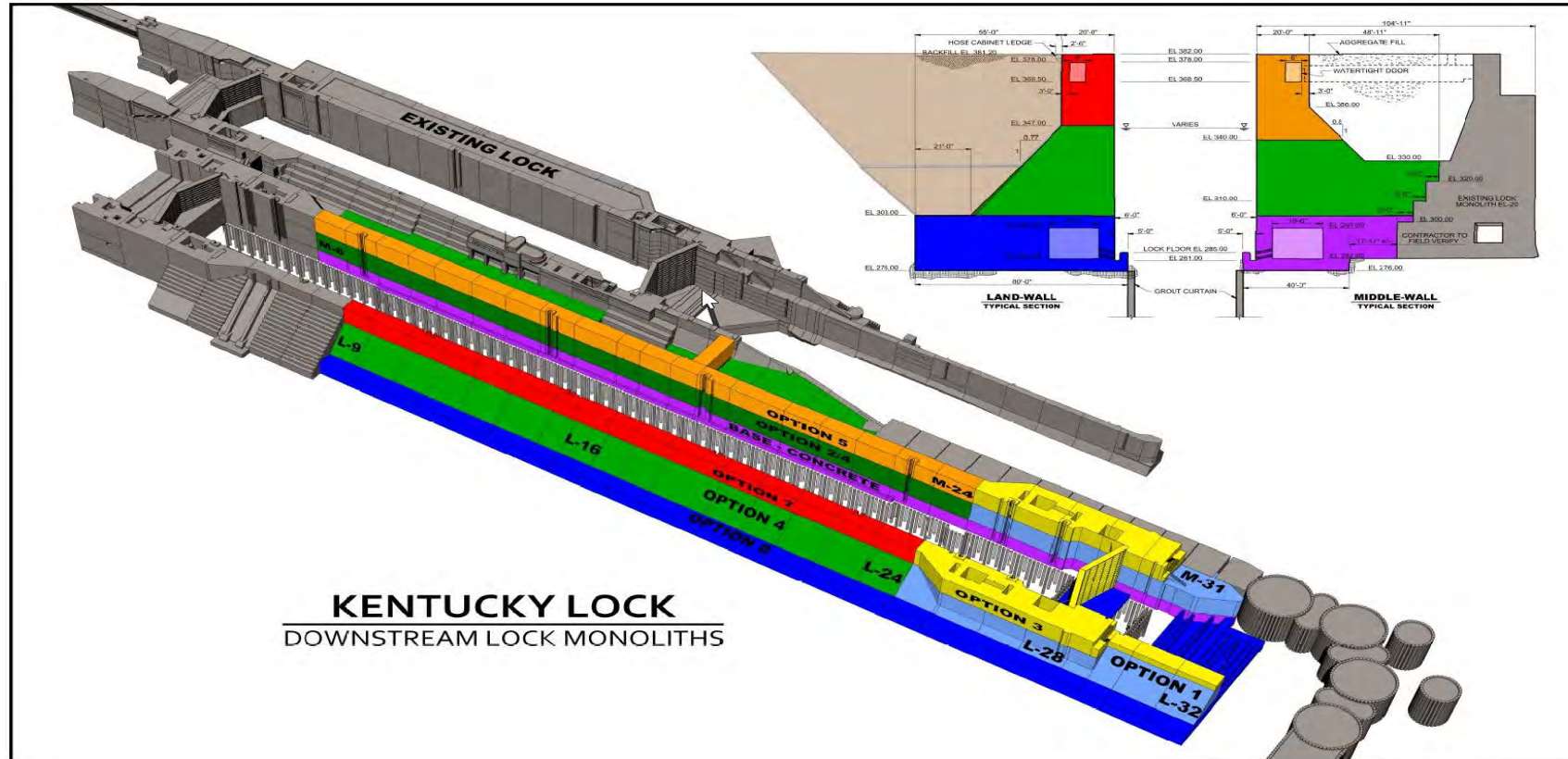
# KENTUCKY LOCK ADDITION & TENNESSEE-TOMBIGBEE WATERWAY



KYL AERIAL VIEW MAY 2022

- Total Project Cost Estimate: \$1.561B (\$1,229B received to date)
- Project Completion Date: September 2030 (approx. 38% complete); On-line = July 2029
- New lock is 2x's as long as existing lock at 1200 ft and able to accommodate 15 barges vs. 9.
- Current 8-12 hours wait time will reduce to essentially 0.

# DOWNSTREAM LOCK MONOLITHS CONSTRUCTION CONTRACT



**Scope:** Final Excavation, ~375K CY Concrete Placement (Monoliths), 2M lbs. Downstream Miter Gates, Land Wall Backfill, Conduits and Grounding

## Construction Status:

- \$380M Contract awarded 30 September 2021 to Thalle Construction
- Contractor was granted access to the PIT on 06 July 2022

**Estimated Completion:** 16 May 2027

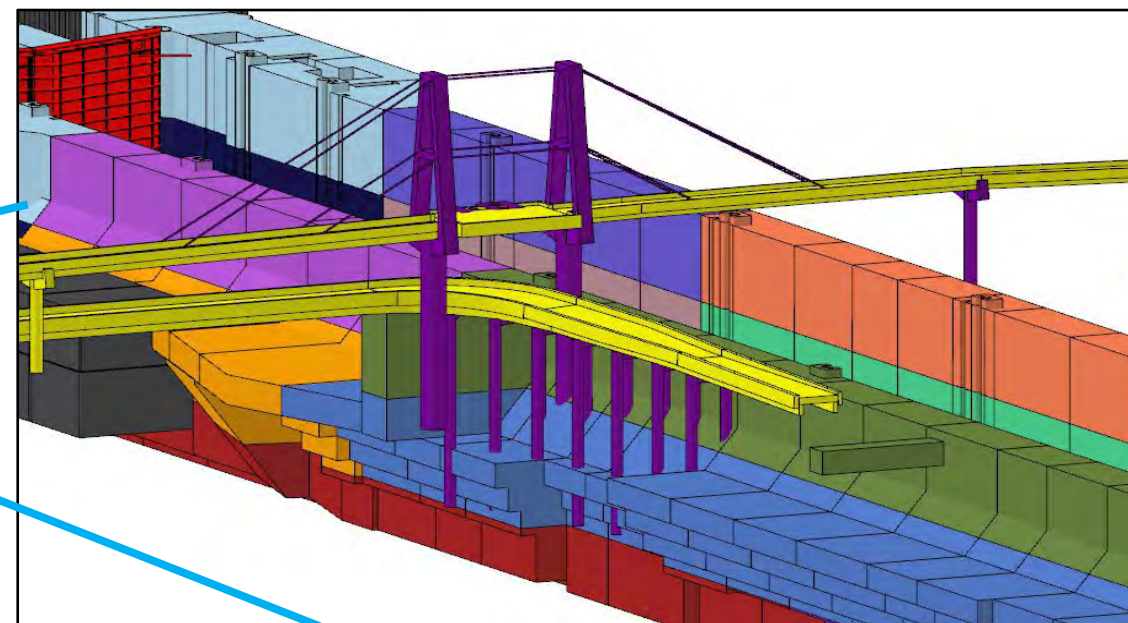




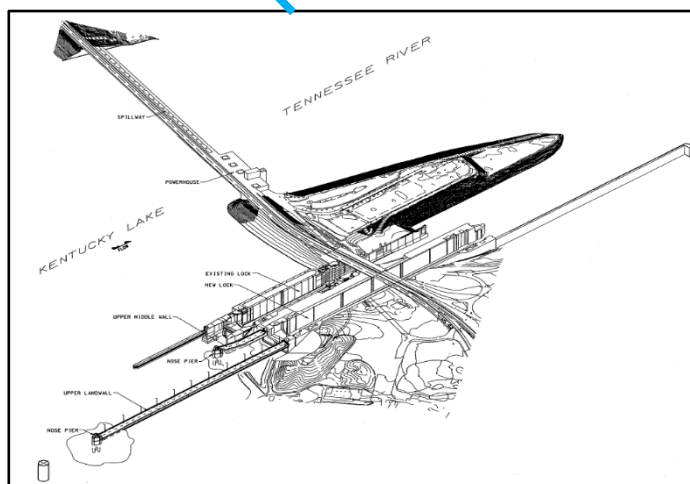
# OPERATIONAL CONTRACT - SCOPE



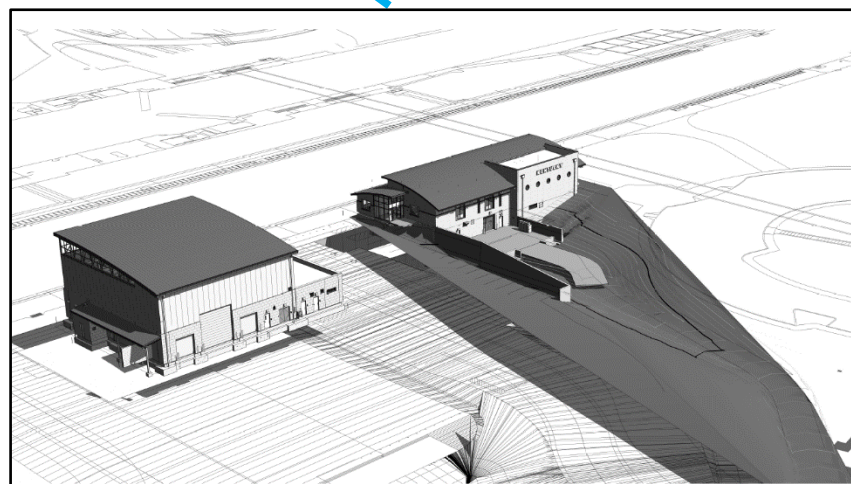
Kentucky Lock Addition at Completion



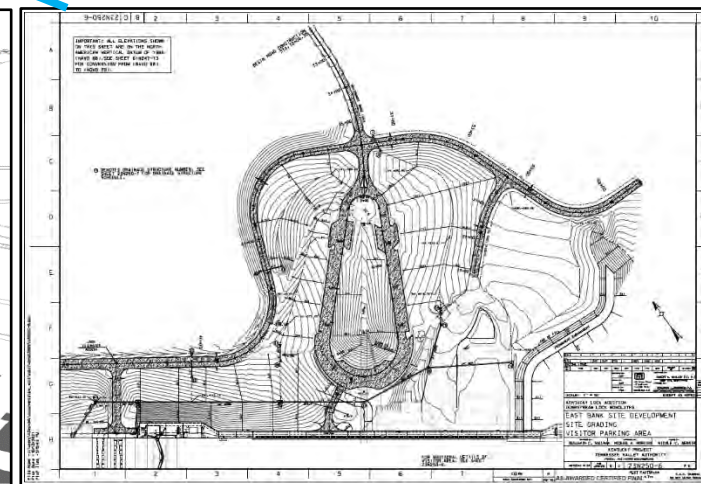
Middle Wall Bridge, Pedestrian/Utility Bridge



Approach Walls (AWC)



Maintenance and Operations Buildings



East Bank Site Development (EBSD)



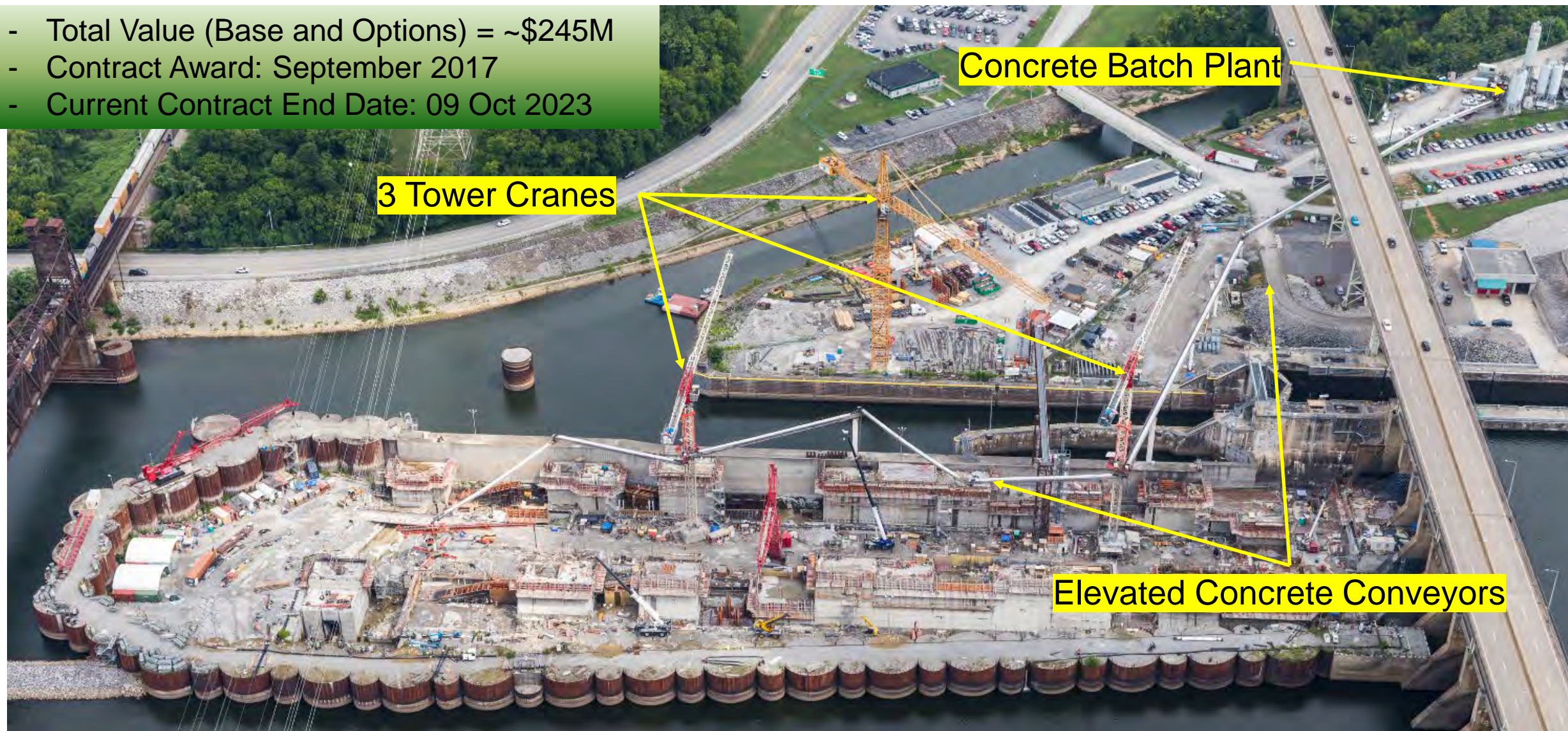


# CHICKAMAUGA LOCK CHAMBER – JULY 2022

7



- Total Value (Base and Options) = ~\$245M
- Contract Award: September 2017
- Current Contract End Date: 09 Oct 2023







# UPSTREAM APPROACH WALLS CONTRACT

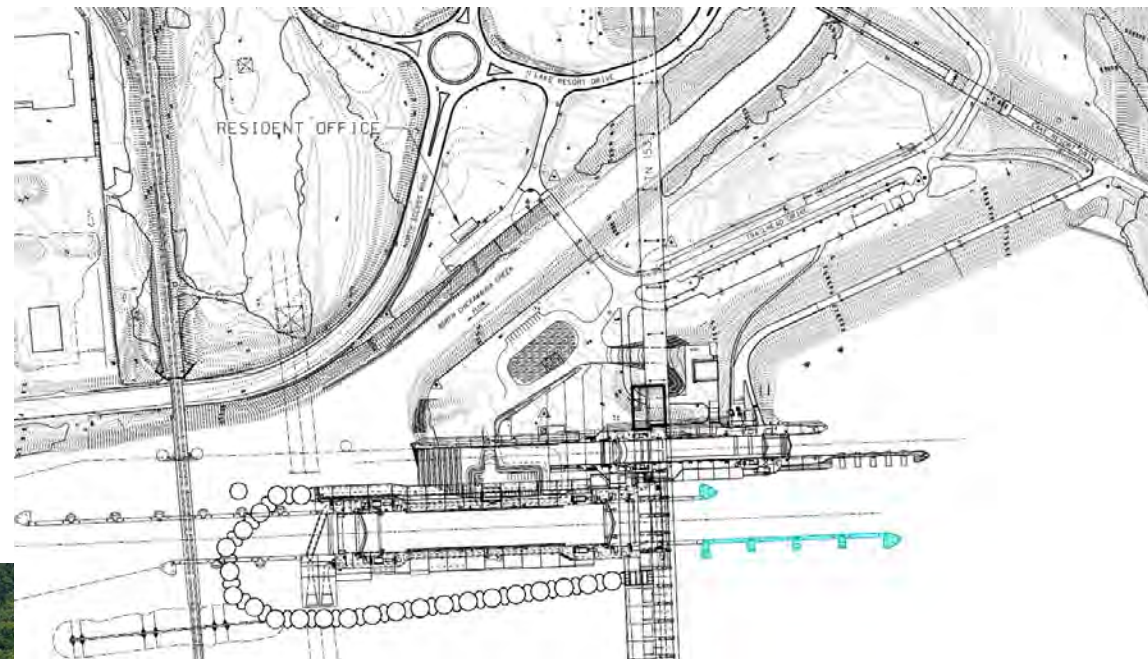


**Scope:** Construction of land and riverside Approach Wall Piers and installation of GFE (Approach Wall Beams).

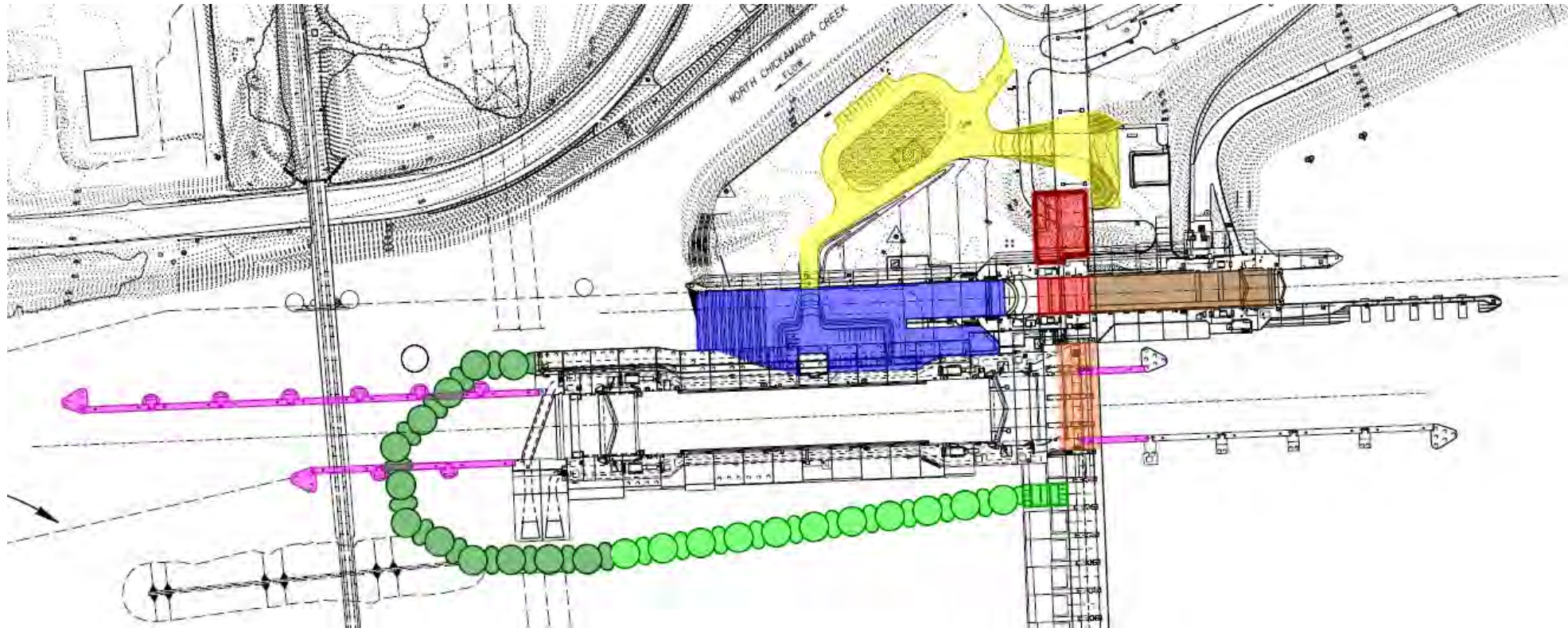
**Construction Status:**

- ~\$60.9M Contract awarded Sept 2021 to C.J. Mahan
- Contractor has completed exploratory drilling and is mobilizing to begin pier construction.

**Estimated Completion:** Feb 2024







**Scope:** Approach Wall and Decommissioning Contract

- Demolition of the Cofferdam - Phase 1 / Phase 2
- Spillway Removal
- Approach Wall Pier and Beam Installation
- Thrust Block/Closure Plug
- Ramp to Operations Building
- Backfill Existing Chamber
- Access Road Relocation

**Construction Status:** Award TBD pending site availability after Lock Chamber contract

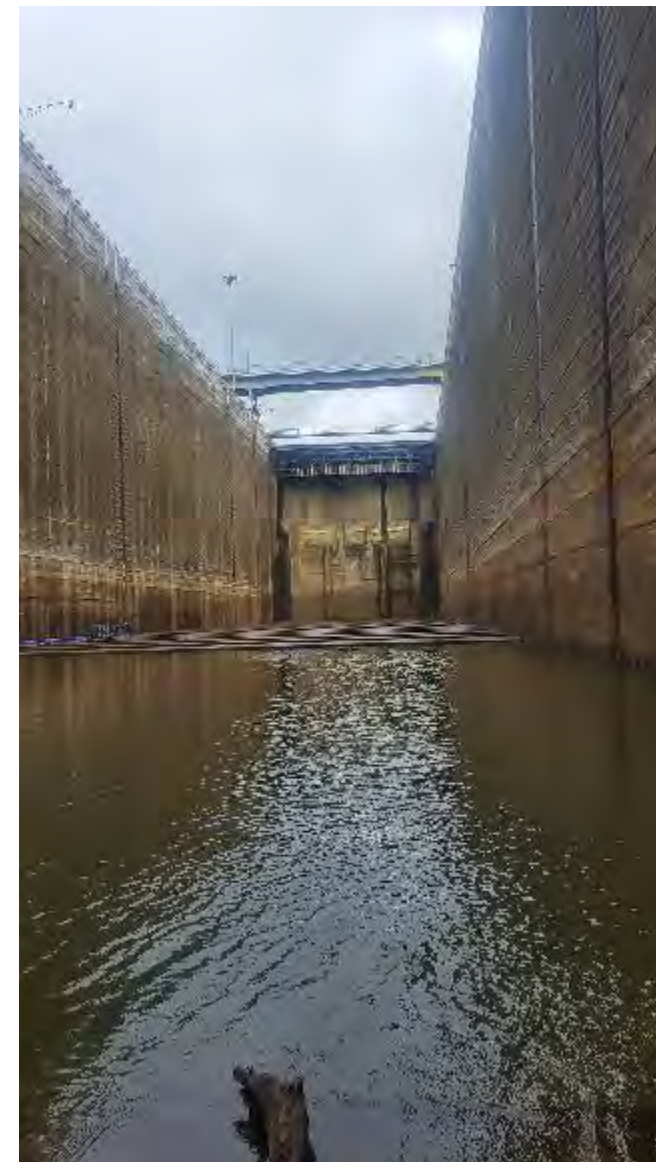
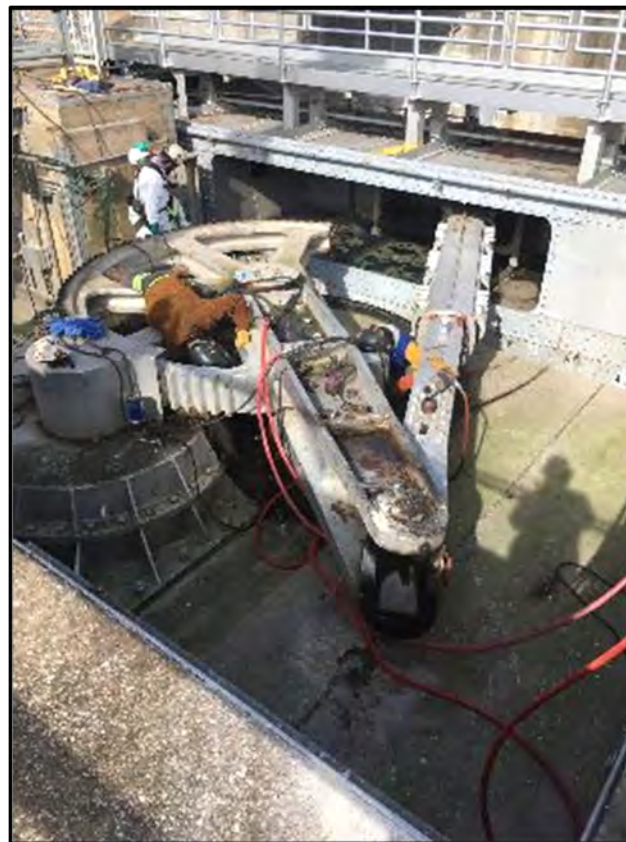
**Estimated Completion:** ~26 month contract duration.



# TENNESSEE RIVER MAINTENANCE

## FY22 COMPLETED MAINTENANCE

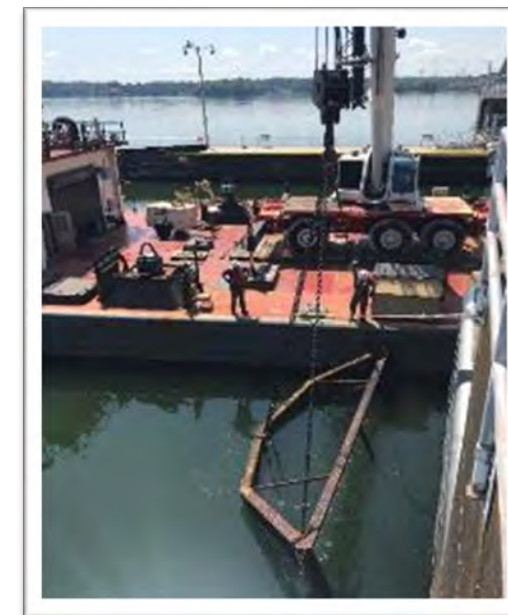
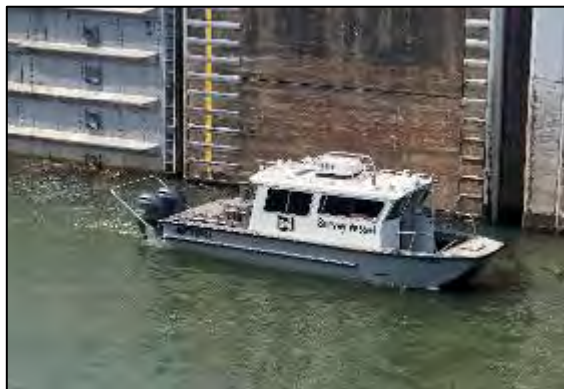
- Kentucky Lock R3F Gate Machinery Repair
- Kentucky Lock Miter Gate Allison Repair
- Wilson Lock R3F Gate Repairs & Dewatering





## FY23 SCHEDULED MAINTENANCE

- Pickwick Lock R3F Aux Valve Repairs & Main Gate Repair (24Mar - 11 May 23)
- TN River Dredge TRM 155 Beech Creek
- TN River Dredge Environmental Study TRM 185 Chalk Bluff
- Pickwick Lock MCC Replacement
- Kentucky Lock Valve Gear Box Purchase







# WILSON LOCK UPPER APPROACH WALL UPDATE



## REDUCE IMPACTS

- USACE has lifted some of the nighttime lockage restrictions
- TVA Providing helper boat during day light hours

## TEMPORARY SOLUTION

- U.S. Army Engineer Research and Development Center (ERDC) Numerical Modeling Study
- Will look at 3 Temporary wall options
- Technical Report will be published in late October

## PERMANENT SOLUTION

- TVA is investigating the option to remove sunken wall
- TVA seeking funding for either a temporary or permanent solution





# TENNESSEE RIVER

## HISTORICAL & PLANNED FUNDING

FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY22 PB	FY23 PB
\$22.7	\$25.5	\$23.8	\$26.1	\$28.6	\$27.3	\$23.7	\$22.3	\$27.7	\$27.2

## Point of Contact

Jason N. Johnson  
Chief, Maintenance Section  
jason.n.johnson@usace.army.mil  
615-736-2866