WINFIELD PUBLIC MEETING
NESP LOCK & DAM NO. 25

NESP Lock & Dam 25
Project Delivery Team

October 29th, 2024

U.S. ARMY

US Army Corps of Engineers®

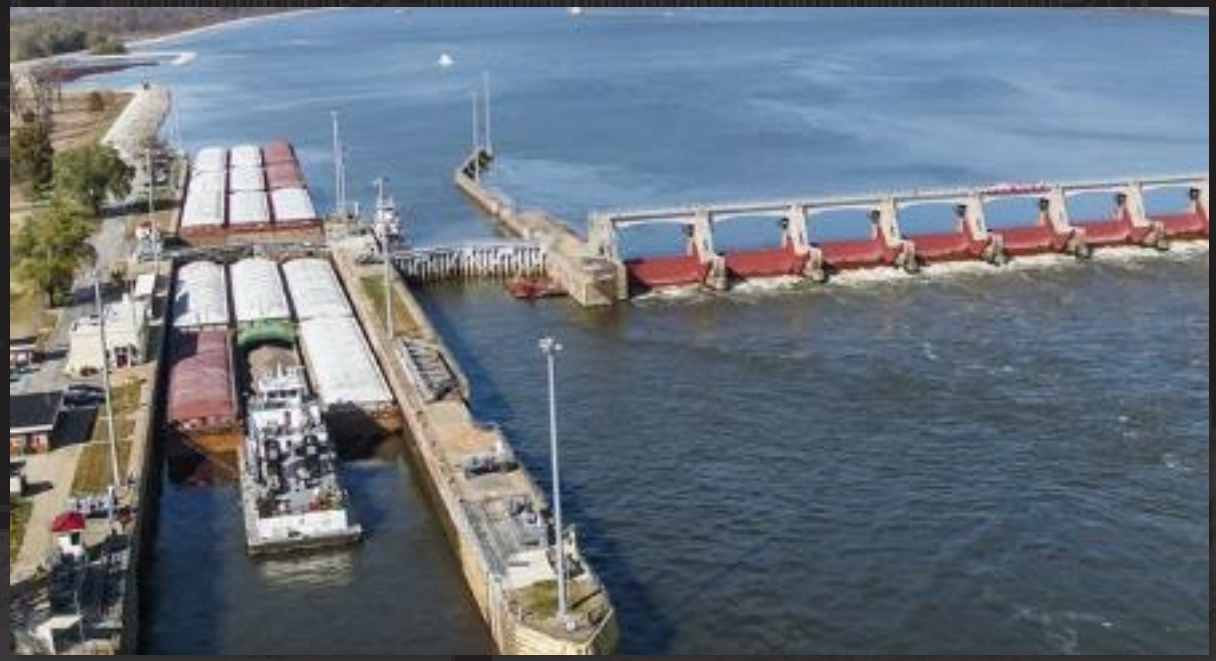
OPENING REMARKS

COLONEL PANNIER
ST. LOUIS DISTRICT
COMMANDER

WINFIELD PUBLIC MEETING
NESP LOCK & DAM NO. 25

Jose R. Lopez, PE, PMP
L&D 25 Project Manager
USACE - St. Louis District

October 29th, 2024



U.S. ARMY

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AGENDA

- Navigation Ecosystem Sustainability Program (NESP) Overview
- Project Purpose & Benefits
- Project Overview
- Project Timeline, Scope, and Status
- Project Progress and Upcoming Work
- Site Access and Flyover Perspective
- Open Discussion / Q&A

NESP OVERVIEW

US Army Corps of Engineers

NAVIGATION AND ECOSYSTEM SUSTAINABILITY PROGRAM (NESP)

ST. PAUL DISTRICT- ROCK ISLAND DISTRICT - ST. LOUIS DISTRICT

NAVIGATION AND ECOSYSTEMS PROJECTS

The Navigation and Ecosystem Sustainability Program (NESP) is a long-term, dual-purpose program that integrates navigation improvements and ecosystem restoration together to provide Upper Mississippi River System once in a generation-type positive impacts.

The primary goals of the program are to increase the capacity and improve the reliability of the inland navigation system while restoring, protecting, and enhancing the environment.

This map shows both projects that are actively being implemented and future ecosystem projects that have been approved. NESP includes an additional 5 - 1200' locks, systemic mitigation, and hundreds of ecosystem restoration projects.

ACTIVE IMPLEMENTATION

- Lock 25 New 1200' Lock
- Lock and Dam 22 Fish Passage Improvement Project
- 1 Pool 2 Wingdam Notching
- 2 Lock 14 Mooring Cell
- 3 Starved Rock Breakwater
- 4 Moore's Towhead System Mitigation
- 5 Twin Island - Island Protection and Enhancement
- 6 Alton Pools Islands - Island Protection and Side Channel Restoration

ECOSYSTEM PROJECTS - APPROVED

- WLM - Reduce Water Level Fluctuations
- Systemic Forest Restoration
- Multi-Pool Forest Restoration
- 1 North Sturgeon Lake
- 2 Wacouta Bay
- 3 Johnson Island
- 4 Sabula Lakes
- 5 Andalusia Island Complex
- 6 Liverpool Flowing Side Channel
- 7 Pool 24 Island Restoration - Denmark and Drift Islands Complex
- 8 Pool 25 Side Channels - Clarksville/Carroll Island Complex, Haugens Island/ Lower Pool 25 Complex
- 9 Middle Mississippi River Stone Dike Alterations Phase 1

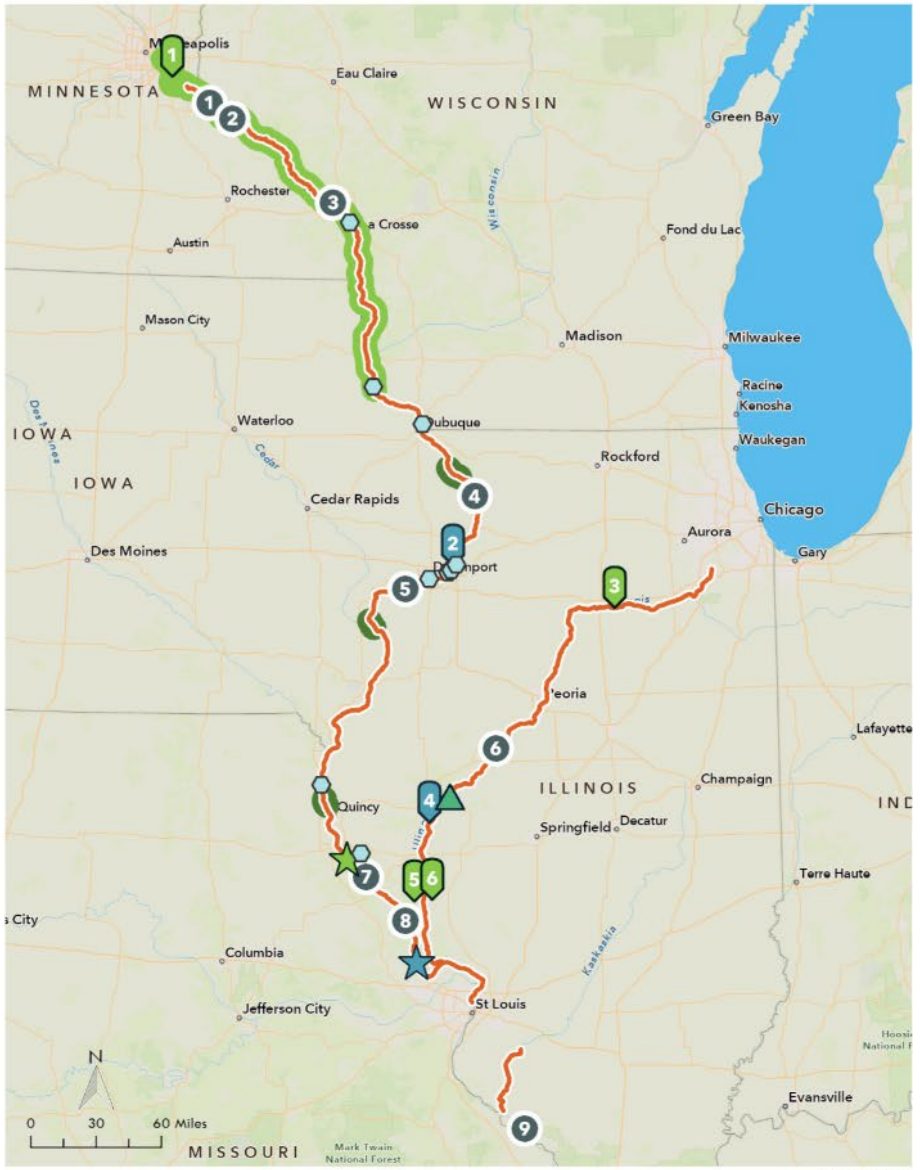
NAVIGATION PROJECTS

- Mooring Facilities
- LaGrange New 1200' Lock Design

Systemic Mitigation - throughout the Upper Mississippi River Basin

PARTNERS

USGS science for a changing world · UMRBA Upper Mississippi River Basin Association · MINNESOTA · MISSOURI DEPARTMENT OF NATURAL RESOURCES · DNR · ILLINOIS DEPARTMENT OF NATURAL RESOURCES



as of July 2022

LOCK 25 – PROJECT PURPOSE

Authorization: Title VIII of Water Resources Development Act (WRDA) 2007, P.L. 110-114 and WRDA 2022, P.L. 117-263. Authorized cost in legislation is at the Navigation Ecosystem Sustainability Program (NESP) level, not for the individual projects.

Purpose/Description: The construction of a new 1200-foot lock at Lock & Dam 25 will significantly reduce delays and increase safety. Proposed project features include construction of a new 1200-foot deep founded lock located in the auxiliary miter gate bay, construction of an upstream ported guard wall totaling 1200-feet, and a 650-foot downstream approach wall.

MISSISSIPPI RIVER LOCK 25 – BENEFITS

Multiple benefits associated with the construction of the New 1,200-ft Lock Chamber are:

- Reduced lockage time, resulting in:
  - Increased daily lockage capacity
  - Significantly reduced wait-time and delays
  - Improved overall navigation efficiency
- Accommodation of the largest tow configurations on the Upper Mississippi River
- Added redundancy at the site
- Improved safety during the lockage process

MISSISSIPPI RIVER LOCK 25 - PROJECT OVERVIEW

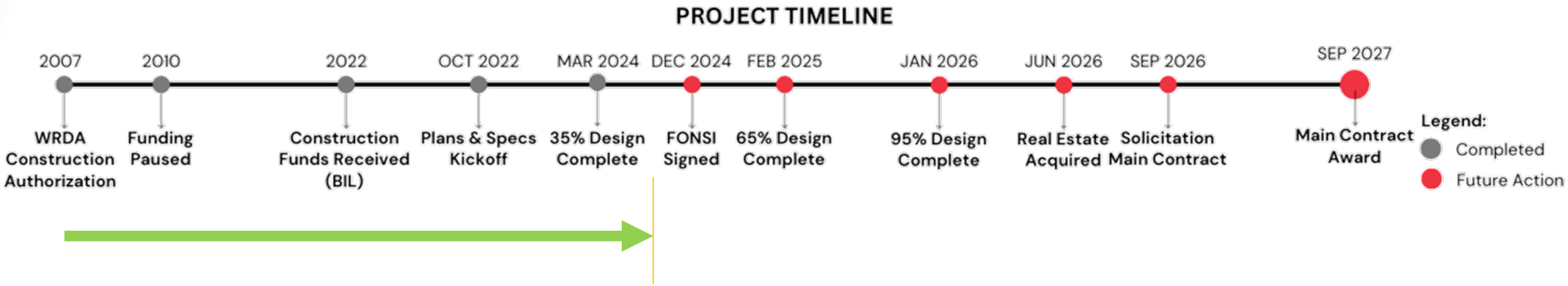
Project consists of design and construction of a new pile-founded 1200’ lock chamber, which includes construction of:

- A new 1200’ of River Wall
- A new 1200’ upstream Guide Wall
- A new 600’ downstream Guide Wall
- A new 600’ extension of the Intermediate Wall
- A new Lock floor
- A new control house and associated facilities

9

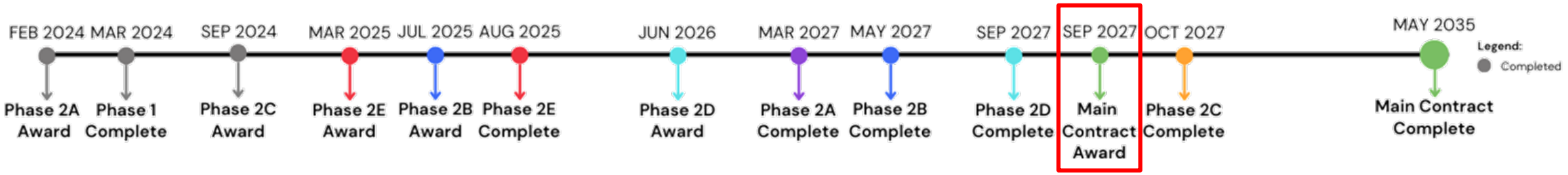
MISSISSIPPI RIVER LOCK 25 - PROJECT TIMELINE

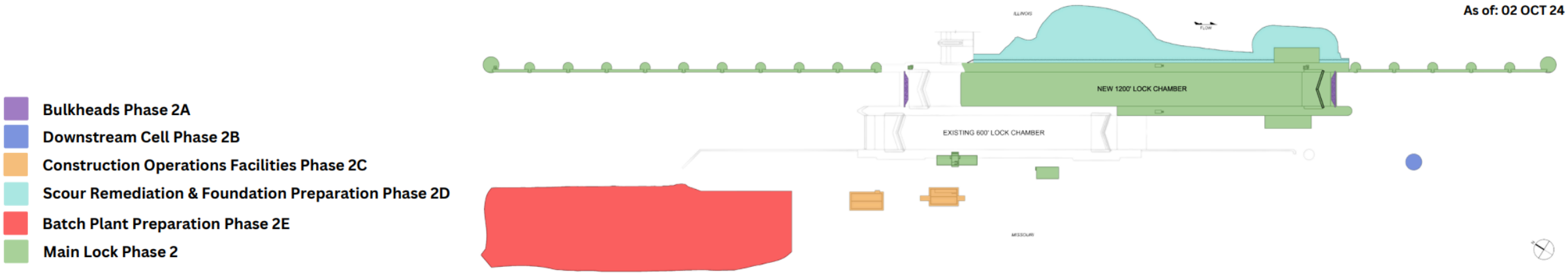
Pre-construction/Design Phase



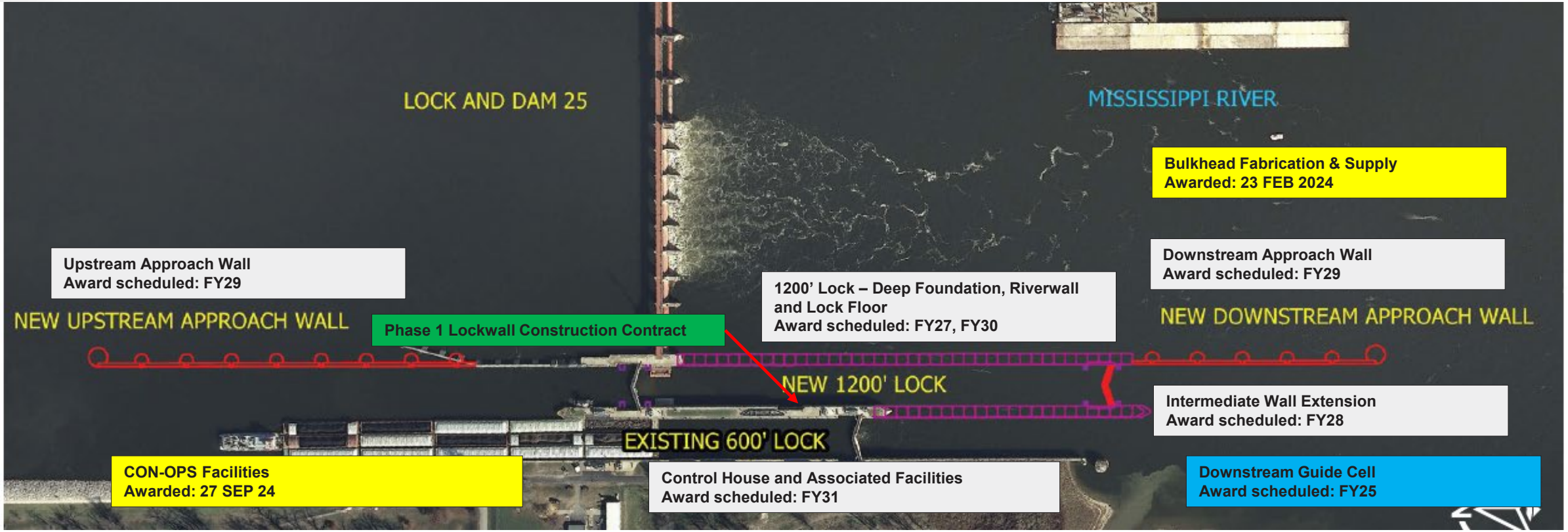
MISSISSIPPI RIVER LOCK 25 – PHASES TIMELINE

Pre-Fabrication & Construction Phase





MISSISSIPPI RIVER LOCK 25 - SCOPE

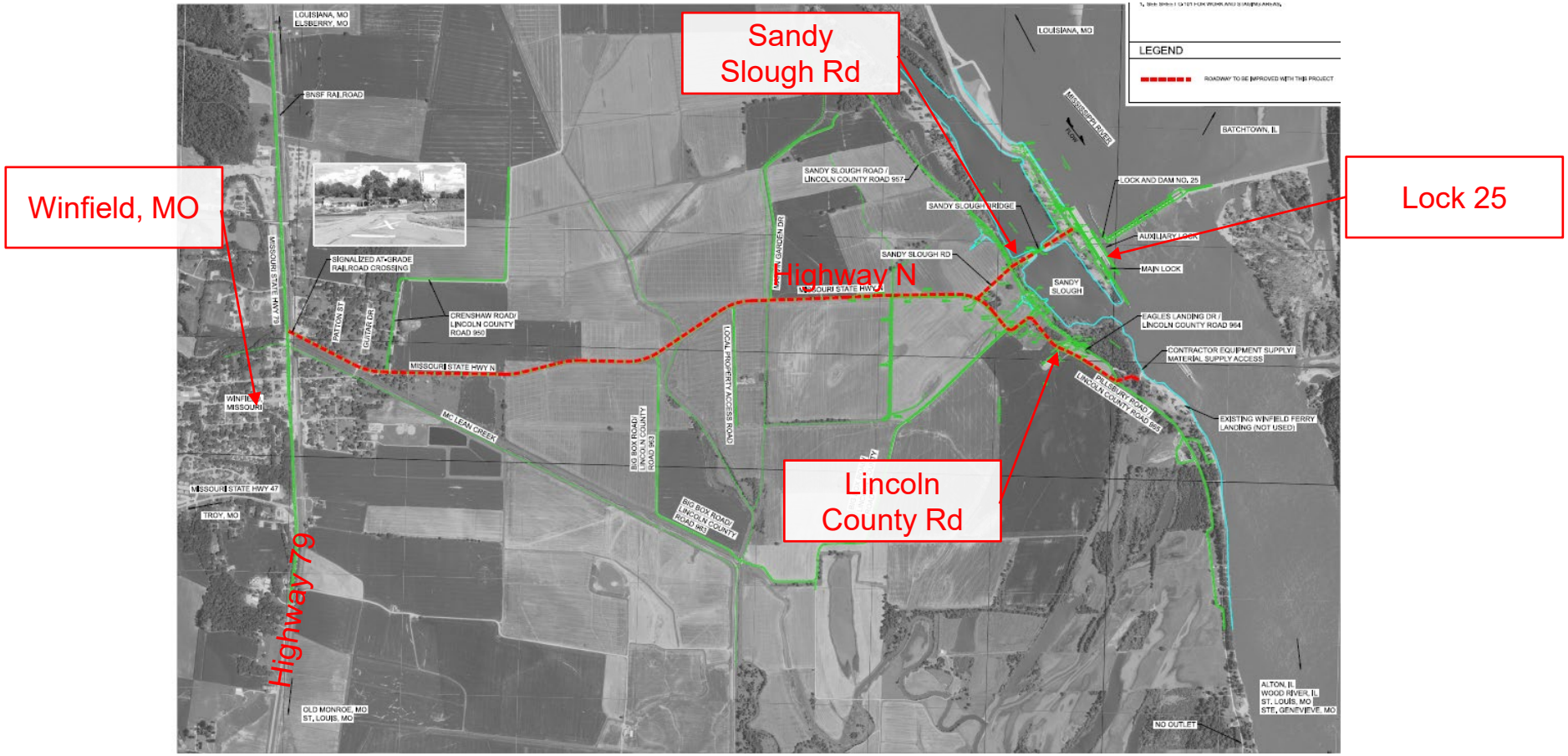


Contract Legend

- Completed
- Current
- Upcoming
- Future

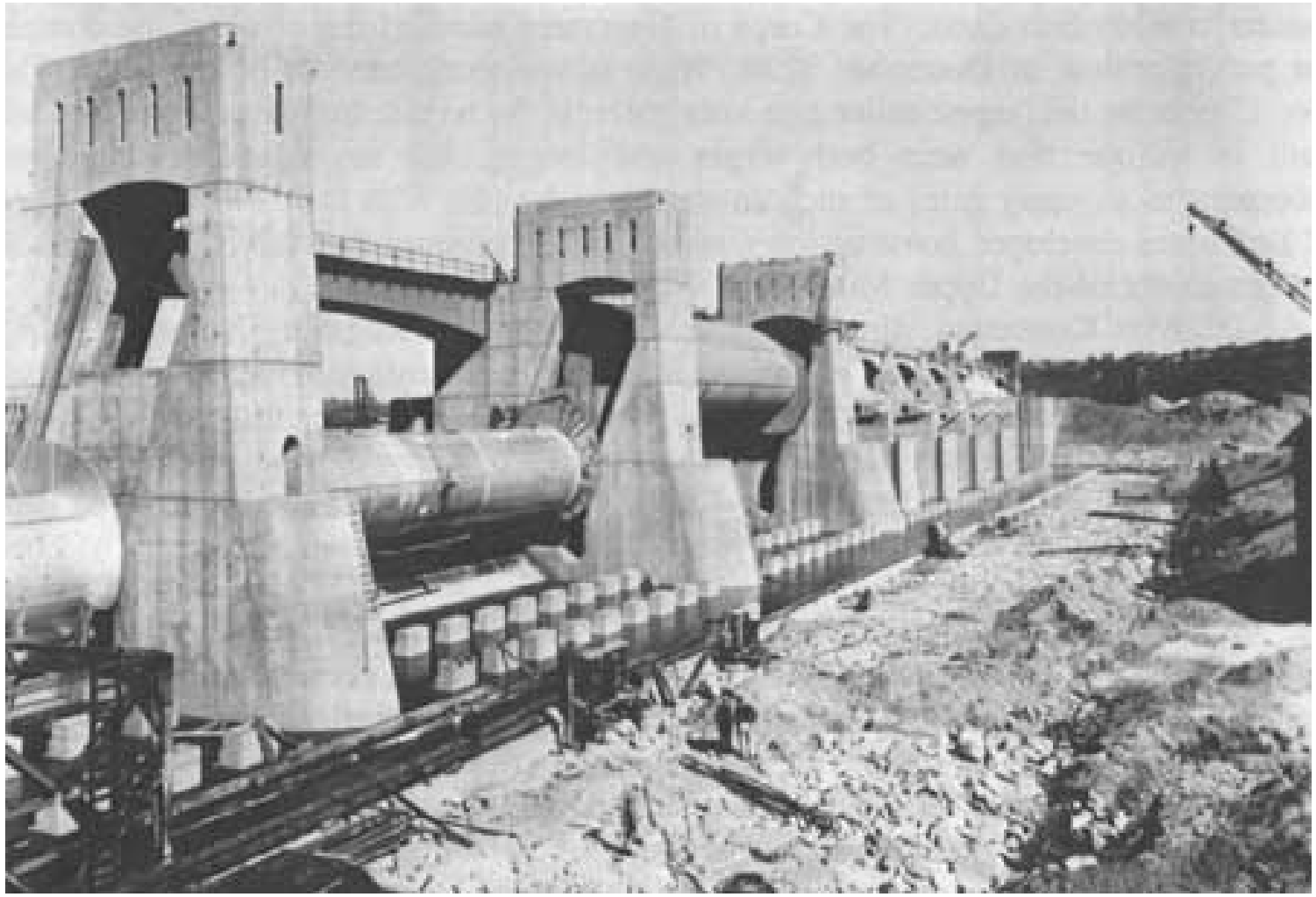
*Timelines assume full/efficient funding and are subject to change.

MISSISSIPPI RIVER LOCK 25 - CIVIL SITE ACCESS



FLYOVER – LOCK HEADING UPSTREAM

THANK YOU



CONTACT INFORMATION

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Saint Louis, MO 63103-2833
USA

MISSISSIPPI RIVER LOCK 25 - OVERVIEW

Authorization: Title VIII of Water Resources Development Act (WRDA) 2007, P.L. 110-114 and WRDA 2022, P.L. 117-263. Authorized cost in legislation is at the Navigation Ecosystem Sustainability Program (NESP) level, not for the individual projects.

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Schedule: Design: Complete FY26; Construction: Complete TBD, dependent on funding stream.

Cost: Latest certified Total Project Cost (TPC) is $2,263,062,000 (Certified in June 2023) with 59% contingency at a 15% level of design. This cost was validated with industry offers for the ECI-IDaC solicitation. Current Working Estimate (CWE) for 35% is $2,181,487,000. The next CWE update will occur at the 65% milestone in the Fall 2024. A new certified cost will be obtained then as well.

***estimates shown assume full or efficient funding.**

MISSISSIPPI RIVER LOCK 25 - PROGRESS

- **Progress**: Phase 1 - Lockwall Construction Contract
  - Final Inspection: 6 March 2024

- **Progress**: Phase 2a - Bulkhead Fabrication and Supply
  - Awarded 23 February 2024
  - Construction completion March 2027
  - $17.7M Firm Fixed Price Contract

- **Progress**: Phase 2b – Guide Cell
  - Scheduled for Award – Q2 FY25

- **Progress**: Phase 2c – O&M Facilities Design-Build
  - Awarded 27 Sept 2024

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St. Louis District

LOCK 25 NEW 1200-FOOT LOCK

MEGA PROJECT FUNDED WITHIN NAVIGATION AND ECOSYSTEM SUSTAINABILITY PROGRAM (NESP)

SCOUR REMEDIATION AND FOUNDATION PREPARATION

INDC
INLAND NAVIGATION DESIGN CENTER

- Remove existing stone protection
- Place 68,000 cubic yards of dredged sand
- Place 78,000 cubic yards of stone protection
- Stones weigh as much as 5,000 pounds

Approximately **146,000 cubic yards** of stone and sand will be placed at the project, this would increase the elevation of **Gateway Arch National Park** by **2 feet**

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St. Louis District

LOCK 25 NEW 1200-FOOT LOCK

MEGA PROJECT FUNDED WITHIN NAVIGATION AND ECOSYSTEM SUSTAINABILITY PROGRAM (NESP)

INDC
INLAND NAVIGATION DESIGN CENTER

CURRENT PROJECT STATUS

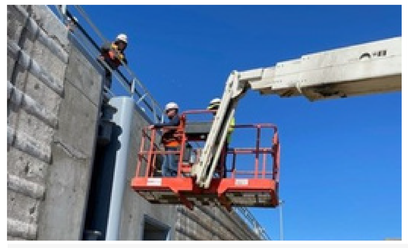
Lockwall Construction Phase 1

Design ☑

Acquisition ☑

Construction ☑

- First construction contract awarded ever on NESP authority



Bulkheads Phase 2A

Design ☑

Acquisition ☑

Fabrication 13%

- Required for unwatering & construction of lock floor
- Long lead time item

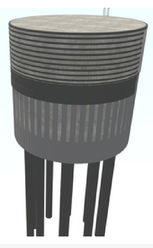
Downstream Cell Phase 2B

Design 70%

Acquisition 29%

Construction **Not started**

- Industry requested navigational aide
- Required before Intermediate wall construction begins
- 95% design reviews ongoing



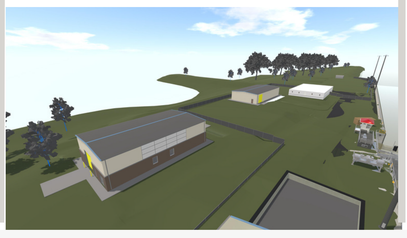
Construction Operations Facilities Phase 2C

Design ☑

Acquisition 38%

Construction **Not started**

- Contains QA concrete lab facilities for USACE oversight
- Required to operate & maintain both lock facilities



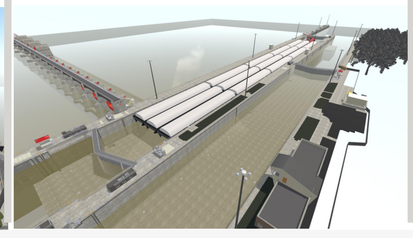
Main Lock Phase 2

Design 55%

Acquisition 11%

Construction **Not started**

- 65% design reviews ongoing
- 65% cost update ongoing
- Market research for Design Bid Build contract



Quarterly Outlook

4th Quarter FY24:

- Contract award for Construction Operations Facilities
- Industry 1-on-1's with contractors
- Initial coordination of navigation impacts with industry

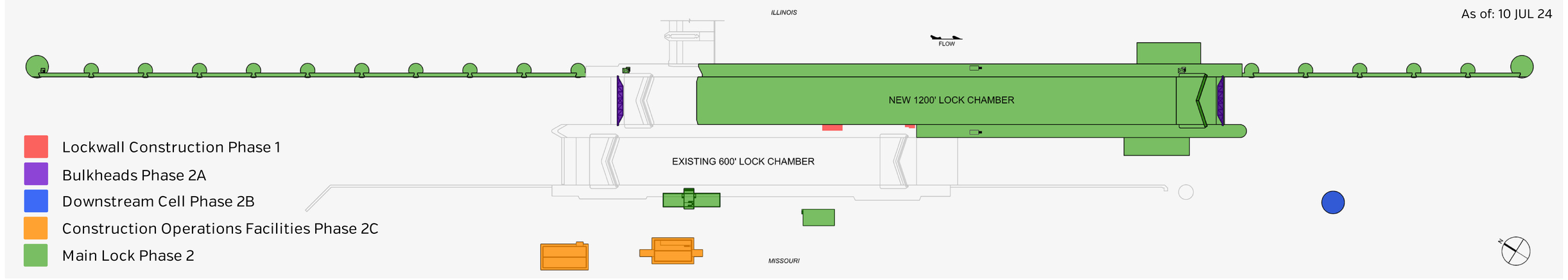
1st Quarter FY25:

- Downstream cell design complete
- Prepare new acquisition plan
- Construction Operations Facilities notice to proceed for design
- Complete Real Estate boundary surveys

2nd Quarter FY25:

- 65% design complete
- New acquisition plan approved
- 65% cost update complete
- Real Estate acquisition negotiations

As of: 10 JUL 24



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NAVIGATION AND ECOSYSTEM SUSTAINABILITY PROGRAM (NESP)

ST. PAUL DISTRICT- ROCK ISLAND DISTRICT - ST. LOUIS DISTRICT

INDC
INLAND NAVIGATION DESIGN CENTER

NAVIGATION AND ECOSYSTEM PROJECTS

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The primary goals of the program are to increase the capacity and improve the reliability of the inland navigation system while restoring, protecting, and enhancing the environment.

This map only shows projects actively being implemented. NESP includes an additional 5 - 1,200-foot locks, systemic mitigation, and hundreds of ecosystem restoration projects.

CONSTRUCTION COMPLETE

- 1 Pool 2 Wingdam Notching
- 10 Starved Rock Breakwater
- 16 Moore's Towhead System Mitigation
- 19 Alton Pools Islands - Island Protection
- 20 Twin Island Protection and Enhancement

ONGOING CONSTRUCTION

- 2 Pool 4 Island System Mitigation
- 8 Lock 14 Downstream Mooring Cell
- 24 Lock 25 New 1,200-Foot Lock

AE DESIGN SERVICE CONTRACT AWARDS

- 9 Andalusia Island Complex Planning
- 14 LaGrange New 1,200-Foot Lock Design
- 17 Lock and Dam 22 Fish Passage

ONGOING DESIGN

- Mooring Facilities

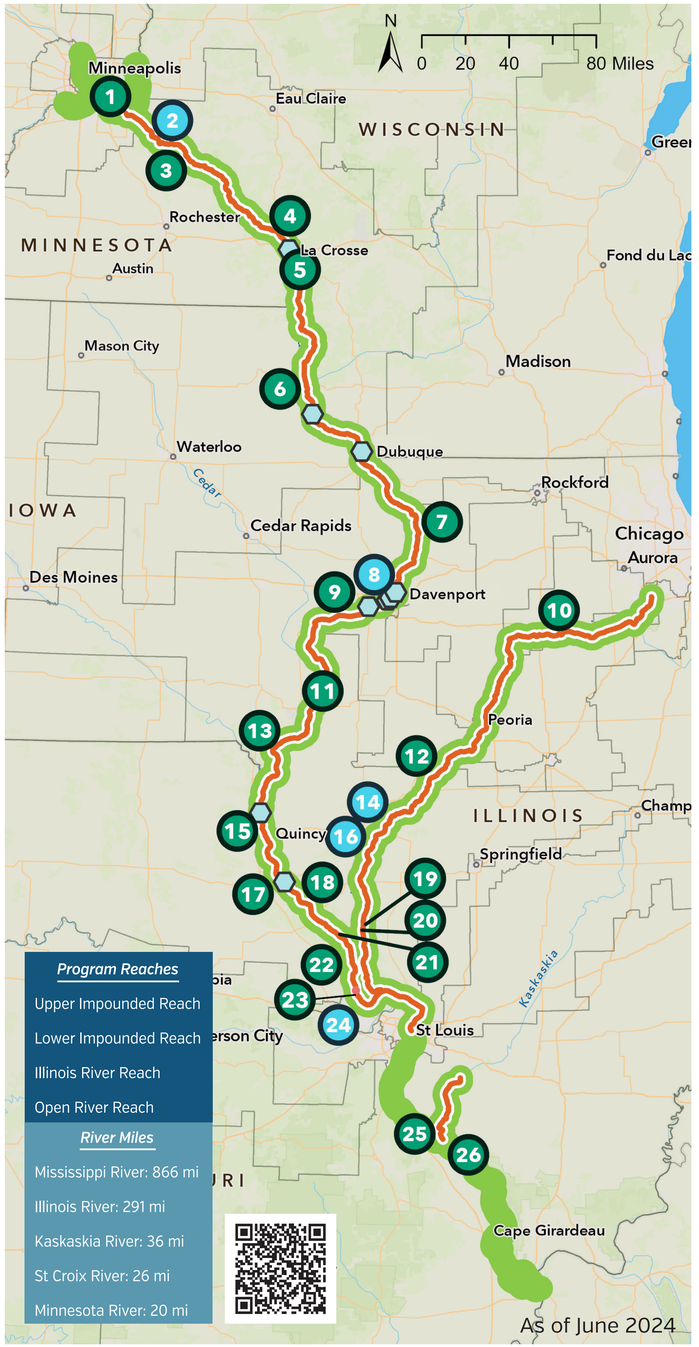
ONGOING PROJECT PLANNING

- 3 Wacouta Bay
- 4 Johnson Island
- 6 Sny Magill, Effigy Mounds National Monument
- 7 Sabula Lakes
- 12 Liverpool Flowing Side Channel
- 13 Lee County Islands and Backwaters
- 18 Pool 24 Island Restoration - Denmark and Drift Islands Complex
- 21 Clarksville/Carroll Island Side Channel
- 22 Hausgen Island Side Channel
- 25 MMR - NWR - Horse Island
- 26 Middle Mississippi River Stone Dike Alterations Phase 1
- Water Level Management - Reduce Water Level Fluctuations

SYSTEMIC FOREST MANAGEMENT

- 5 Pool 8 Goose Island Invasive Control
- 11 Pools 17 and 18 Forest Inventory
- 15 Pool 21 Long Island Forest Inventory
- 23 Pool 26 Cuivre Island Tree Planting

NESP PARTNERS



https://www.mvr.usace.army.mil/Rock-Island-District/Programs/NESP/