



# ILWW Closure Plan

Illinois Water Way Project

**U.S. ARMY CORPS OF ENGINEERS**

**BUILDING STRONG.**

August 2017

Work Universal to Most Sites

In order to continue to maintain the locks on the IWW, the locks need to be prepared for both emergency situations and have the ability to support major rehabilitation projects. In order to do so, locks require the installation of bulkhead recesses to support dewatering as the emergency gates are no longer safe for dewatering. Currently, Brandon Rd, Dresden Island, Marseilles, and Starved Rock have emergency gates on the upper end and require bulkhead recesses.

New miter gates are required at four of the sites on the IWW (Brandon Road, Dresden Island, Marseilles, and Starved Rock). In order to install these miter gates, the locks need to be dewatered using bulkheads, and replacement of the concrete sill and gate anchorage is required. Additionally, miter gate procurement requires a significant amount of lead time for fabrication.

Consolidated Closures for IWW Major Maintenance (MM) and one Major Rehab (MR)

2020

LaGrange MM/MR – up to 120 day closure

Peoria MM – up to 60 day closure – inspection, new bubbler system

Starved Rock MM – up to 120 day closure – 4 new miter gates plus sills and anchorages

Marseilles – up to 90 day closure – 2 new miter gates plus sill and anchorages

Dresden Island – up to 120 days restrictions (some minor closure possible) to prep for 2023 MM

Brandon Road – up to 120 days restrictions (some minor closure possible) to prep for 2023 MM

2023

Dresden Island – up to 90 day closure – 2 new miter gates plus sill and anchorages

Brandon Road – up to 90 day closure – 2 new miter gates plus sill and anchorages

NOTE – this schedule does not include other potential IWW closures for additional MM/MR work, currently unscheduled. MR evaluations are currently ongoing. Additional closures are not anticipated at this time. However, an additional closure at Brandon Road (GLMRIS project) may occur in later years, if approved. Efforts to consolidate that closure plus any other currently unscheduled closures will be pursued.

Lead Times

The amount of time required for Miter Gate fabrication is approximately 2.5 years from time of contract award.

The LaGrange Major Rehab will need approximately 18 months from time of award until the closure duration starts, for fabrication and procurement of multiple items. More time will be required if the Base and Option contracting method is used.

We have met current contract award schedules and are on track for meeting future scheduled contract awards and will meet lead times and 2020 closures timelines, pending FY 18 and FY 19 funding.

Summary of Assumptions

- Preferred closure timeframe on the IWW is between 1 July and 31 October (if the closure timeframe for

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one project is moved, it will affect the other projects scheduled for closure that same FY).

- Funding is available.
- Timelines are assumed as designs are not yet complete.
- Assuming minimal effects of weather or emergency situations.
- Assuming width restrictions being longer is better to reduce full closure times.
- Bulkheads can be borrowed from the Mississippi River Project and from other districts (St. Louis District).
- A feasible and suitable design solution for the placement of bulkhead recesses in the vicinity of the old emergency gates is achievable.
- Construction can handle the COR/QA requirements for construction and installations.
- After LaGrange Major Rehabilitation is complete, there is no need for additional closures in the near-term.
- MVR will have 3 heavy-lift cranes available.

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