

# Lafayette Bascule Bridge Replacement



## ENGINEERING CONSIDERATIONS

1. Selection of movable bridge type (rolling-lift bascule or trunnion bascule, single-leaf or double-leaf)
2. Widening the new bridge to three lanes, as well as providing a bike lane or multi-use sidewalk
3. Foundation and substructure design to mitigate river hydraulics/scour issues and avoid existing piles
4. Design of improvements for this five-way intersection
5. Pier protection analysis – large design vessel
6. Context-sensitive architectural design

## CONSTRUCTION CONSIDERATIONS

7. Provide safe access for residences, clubs, businesses and Bigelow Park throughout construction
8. Maintain unimpeded navigation throughout construction
9. Investigate staged and accelerated bridge construction techniques to limit navigation and traffic impacts
10. Investigate potential contractor staging areas to minimize disturbance to local communities

## AGENCY/PUBLIC

11. Proactive public outreach, including residents, businesses and clubs on the island in particular, as well as the entire community
12. Outside agency coordination with United States Coast Guard; United States Army Corps of Engineers; and Federal, State and local agencies
13. Provide necessary documentation for MDOT to complete the required environmental documents  
Work with MDOT to communicate the new bicycle/pedestrian facilities on the bridge, connecting to the existing trails