

# St. Charles Parish Post-Katrina Hurricane Protection Update

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Matthew Jewell, Parish President

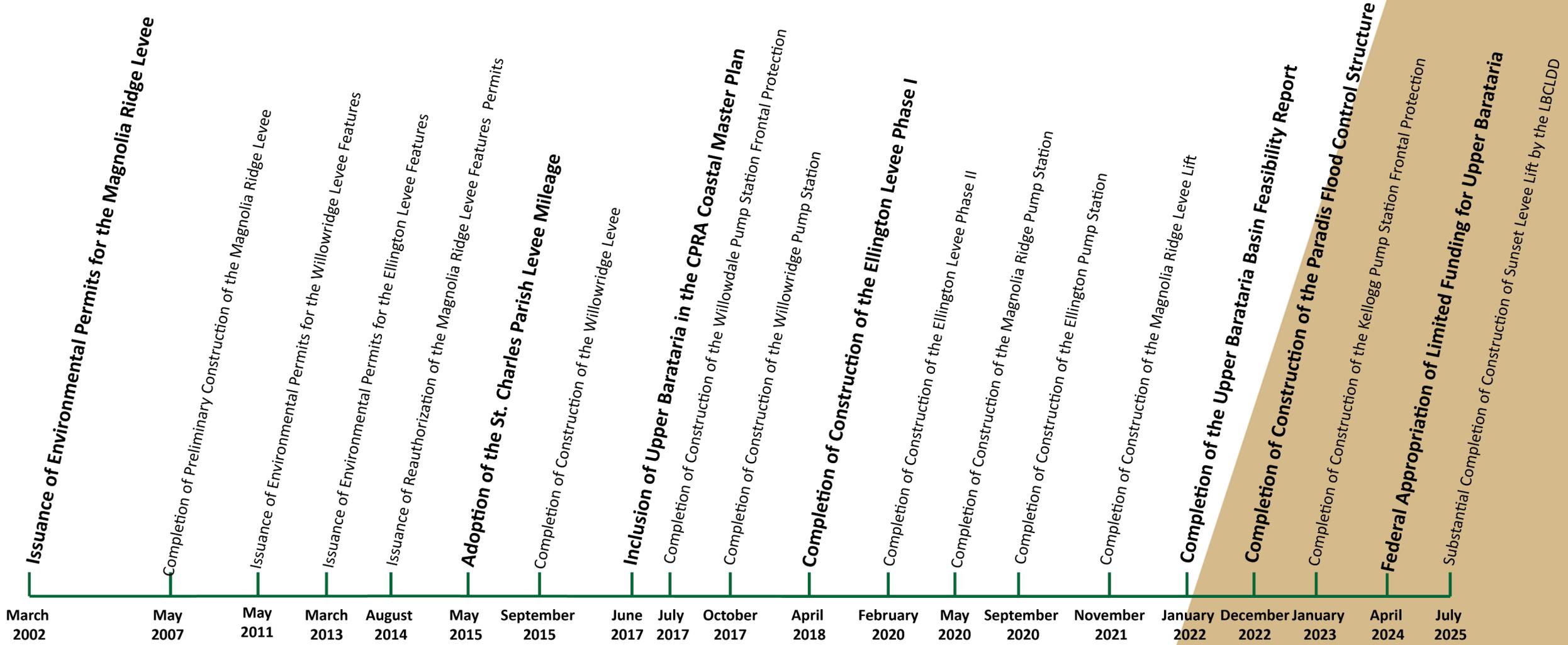
August 20, 2025



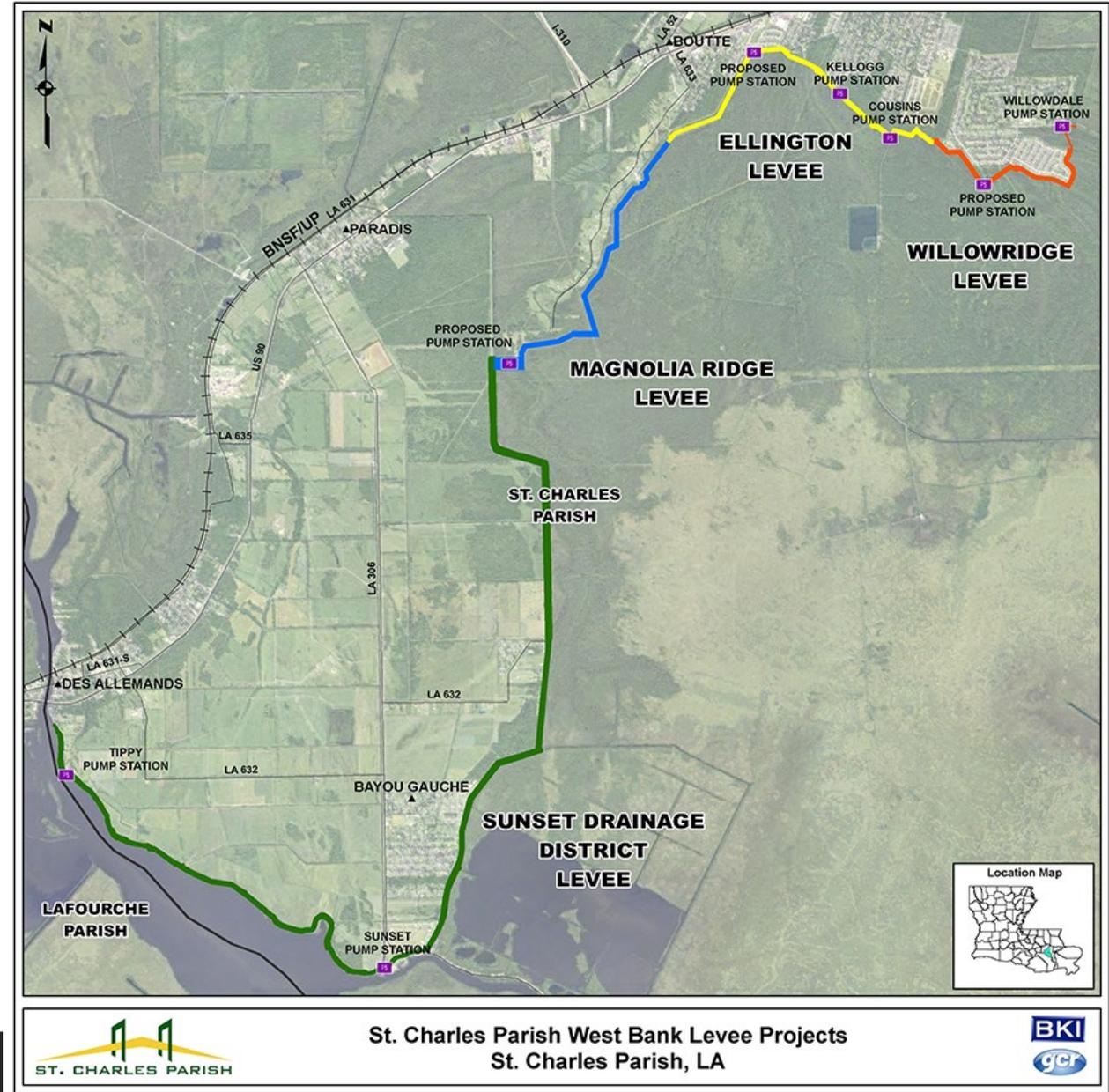
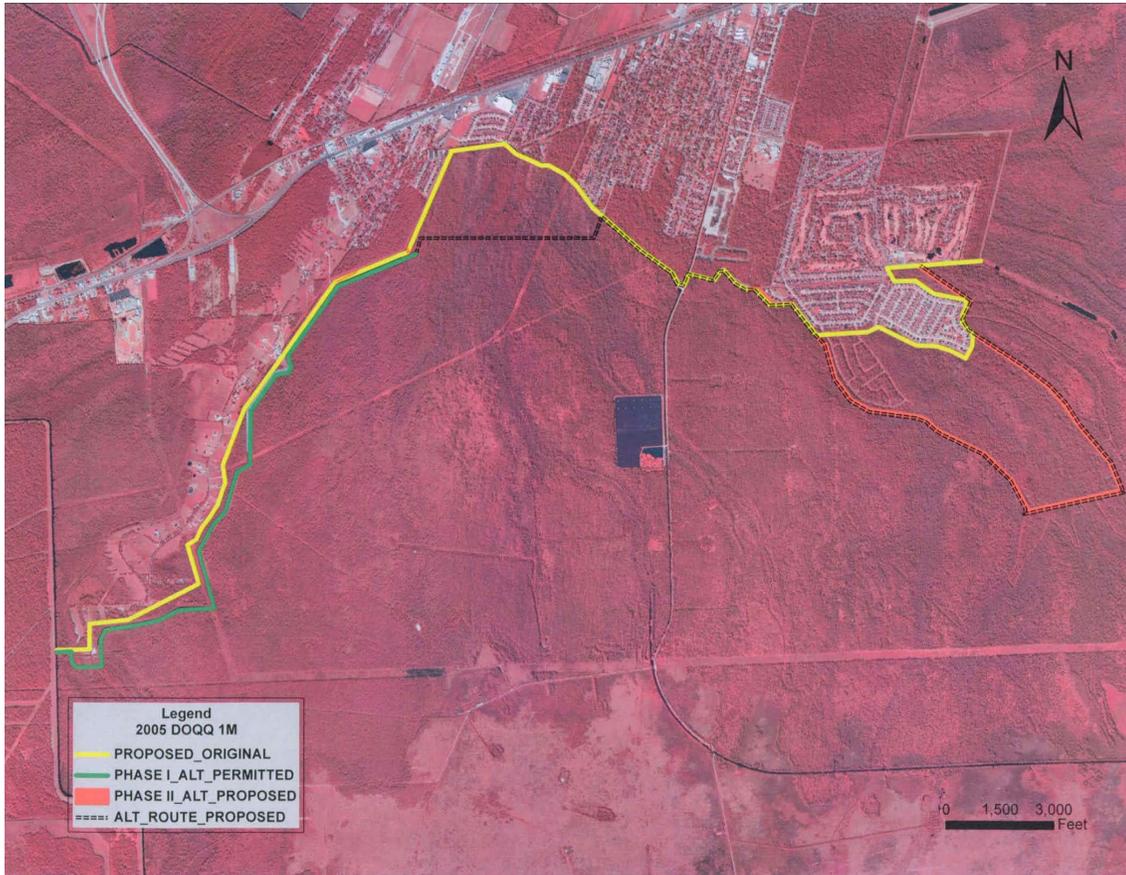
# East Bank and West Bank System Overview



# Timeline for Design and Implementation of the West Bank Hurricane Protection Levee



# West Bank Hurricane Protection Levee Alignment Alternatives



Permitting efforts for the various project reaches comprising the alignment took over 15 years to obtain and involved close coordinate with state and federal agencies.

# West Bank Hurricane Protection Levee Site Conditions for Levee Construction



# West Bank Hurricane Protection Levee Project Information: Willowridge

## Willowridge Levee

- Completed September 2015
- Construction Cost: \$5.61M
- 9,678 lf earthen levee



## Willowridge Pump Station

- Completed October 2017
- Construction Cost: \$5.7M
- 300 CFS Pumping Capacity



## Willowdale Frontal Protection

- Completed July 2017
- Construction Cost: \$7.04M
- T-Wall | 1,568 lf earthen levee



# West Bank Hurricane Protection Levee Project Information: Ellington Levee

## Ellington Levee

- **Phase I** Completed April 2018
- Construction Cost: \$7.27M
- 10,300 lf earthen levee
- **Phase II** Completed February 2020
- Construction Cost: \$2.89M
- 5,700 lf earthen levee



## Ellington Pump Station

- Completed September 2020
- Construction Cost: \$8.24M
- 500 CFS Pumping Capacity



## Kellogg Frontal Protection

- Completed April 2024
- Construction Cost: \$4.36M
- Pump Station T-Wall



# West Bank Hurricane Protection Levee Project Information: Magnolia Ridge Levee

## Magnolia Ridge Levee Lift

- Completed November 2021
- Construction Cost: \$2.4M
- 11,105 lf earthen levee



## Magnolia Ridge Pump Station

- Completed May 2020
- Construction Cost: \$10.13M
- 500 CFS Pumping Capacity



## Paradis Flood Control Structure

- Completed January 2023
- Construction Cost: \$4.98M



# West Bank Hurricane Protection Levee Project Information: Under Construction and Planned Projects

## Crawford Canal Expansion / Sunset Pump Station Bar Screen

- Under Construction
- Scheduled Completion:  
January 2026
- Construction Cost: \$12.7M

## Sunset Pump Station Upgrades

- Planned Upgrades to the  
Sunset Pump Station
- Estimated Construction Cost:  
\$10.97M

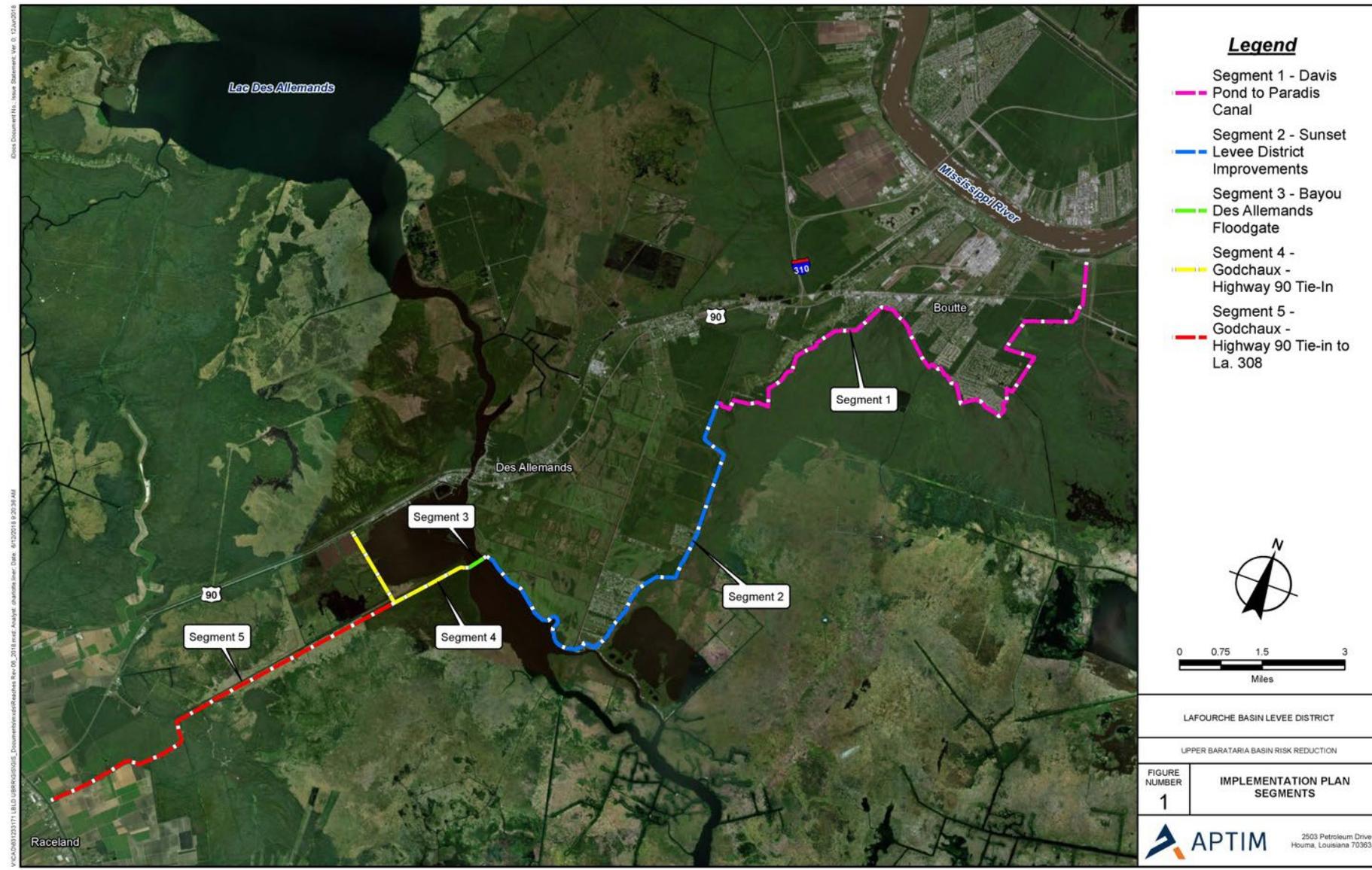
## Cousins Frontal Protection

- Planned T-Wall at Cousins  
Pump Station
- Estimated Construction Cost:  
\$21M



Crawford Canal Expansion / Sunset Pump Station Bar Screen

# St. Charles Parish West Bank Hurricane Protection Levee System Tie-In to Upper Barataria



# Contribution to the Upper Barataria Chief's Report



# Improvements within the Lake Pontchartrain & Vicinity HSDRRS Polder: Cross Bayou and Bayou Trepagnier Pump Stations



Cross Bayou Pump Station  
1,300 CFS Pumping Capacity



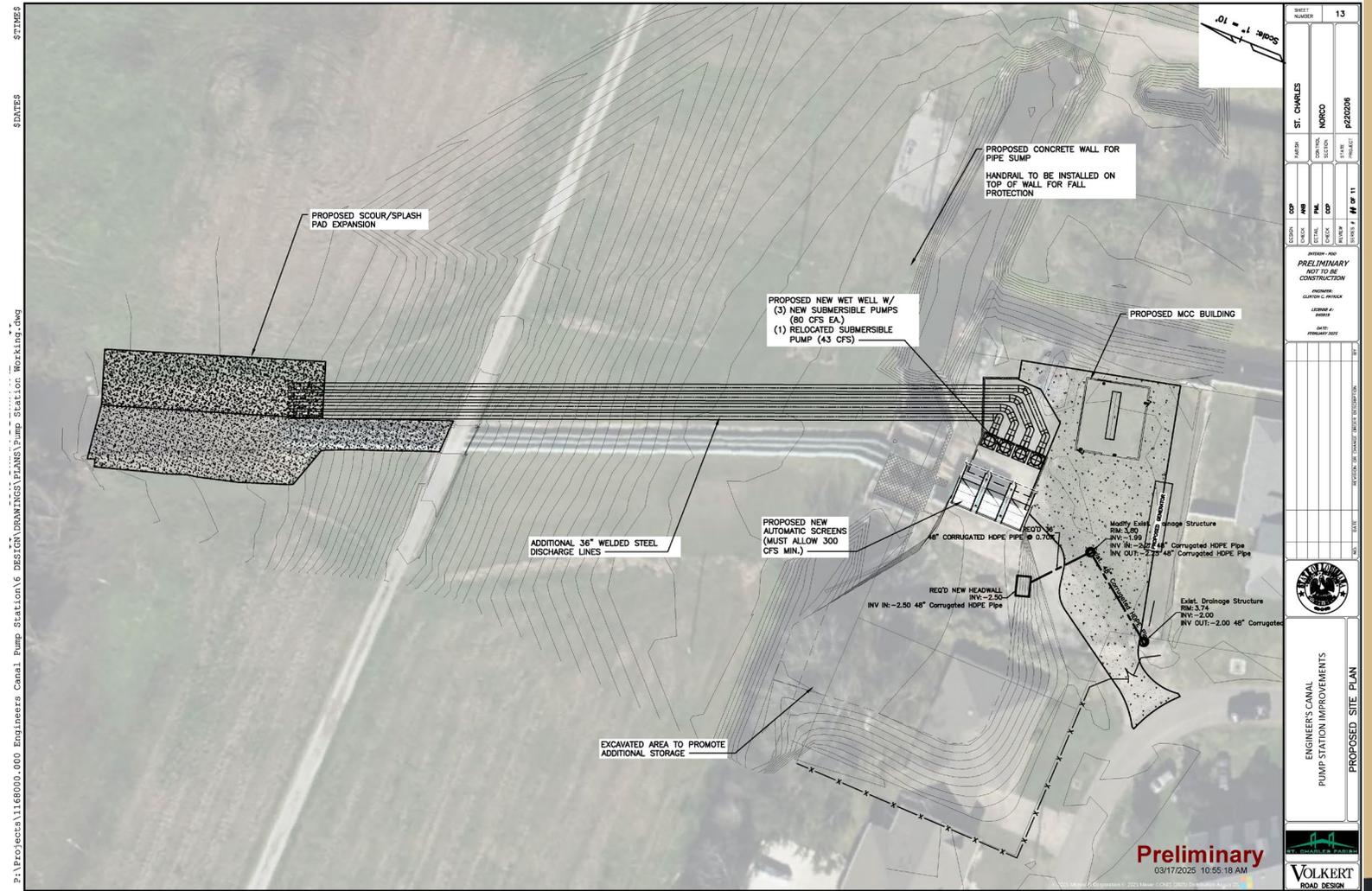
Bayou Trepagnier Pump Station  
800 CFS Pumping Capacity

The two permanent Pump Stations were incorporated in the LPV System after the completion of HSDRSS. Both Pump Stations are operated and maintained by St. Charles Parish. The Cross Bayou Pump Station was a public/private partnership built with state and local funding as well as a donation from Shell and Motiva.

# Improvements within the Lake Pontchartrain & Vicinity HSDRRS Polder: Engineers Canal Pump Station

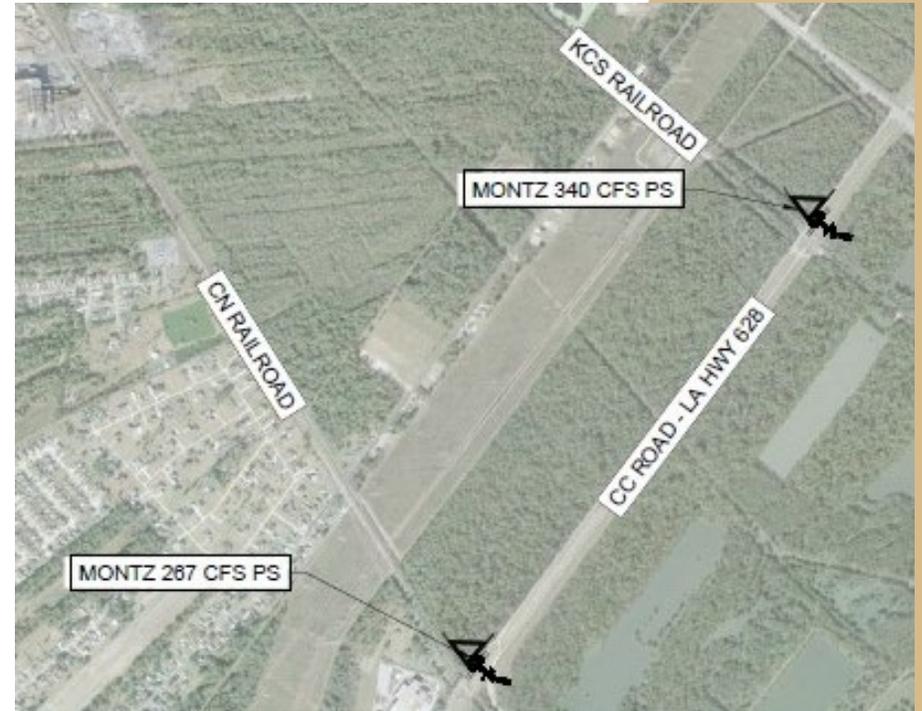
The existing 125 CFS pump station discharges over the east Bonnet Carré Spillway Guide Levee.

St. Charles Parish is currently in the design and permitting phase to construct a new 300 CFS pump station and expanded sump area on site.



## Improvements within West Shore Lake Pontchartrain Polder: Montz Pump Stations and Drainage Improvements

Both the 267 CFS and 340 CFS Montz Pump Stations, which are designed to discharge over the west Bonnet Carré Spillway Guide Levee, are currently under construction.



# Utilizing Local Funding Commitments to Leverage Grant Funding

Project Construction Costs	Total	Percent Grant Funds
Total Construction Costs for Completed Projects to Date	\$59.5M	77%
Construction Costs for Projects Under Construction	\$62.1M	26%
Estimated Construction Costs for Future Projects (Year-2026)	\$32.1M	69%
Total Project Construction Costs	\$153.7M	
Total Costs with Engineering, Mitigation, LERRDS	\$190M	

**Grant Funding Sources:** CPRA Surplus, DOTD Statewide Flood Control, FP&C Capital Outlay, FEMA Hazard Mitigation Grant Program, CPRA GOMESA, CPRA RESTORE, Parish RESTORE, & DRA SEDAP

**Questions?**