



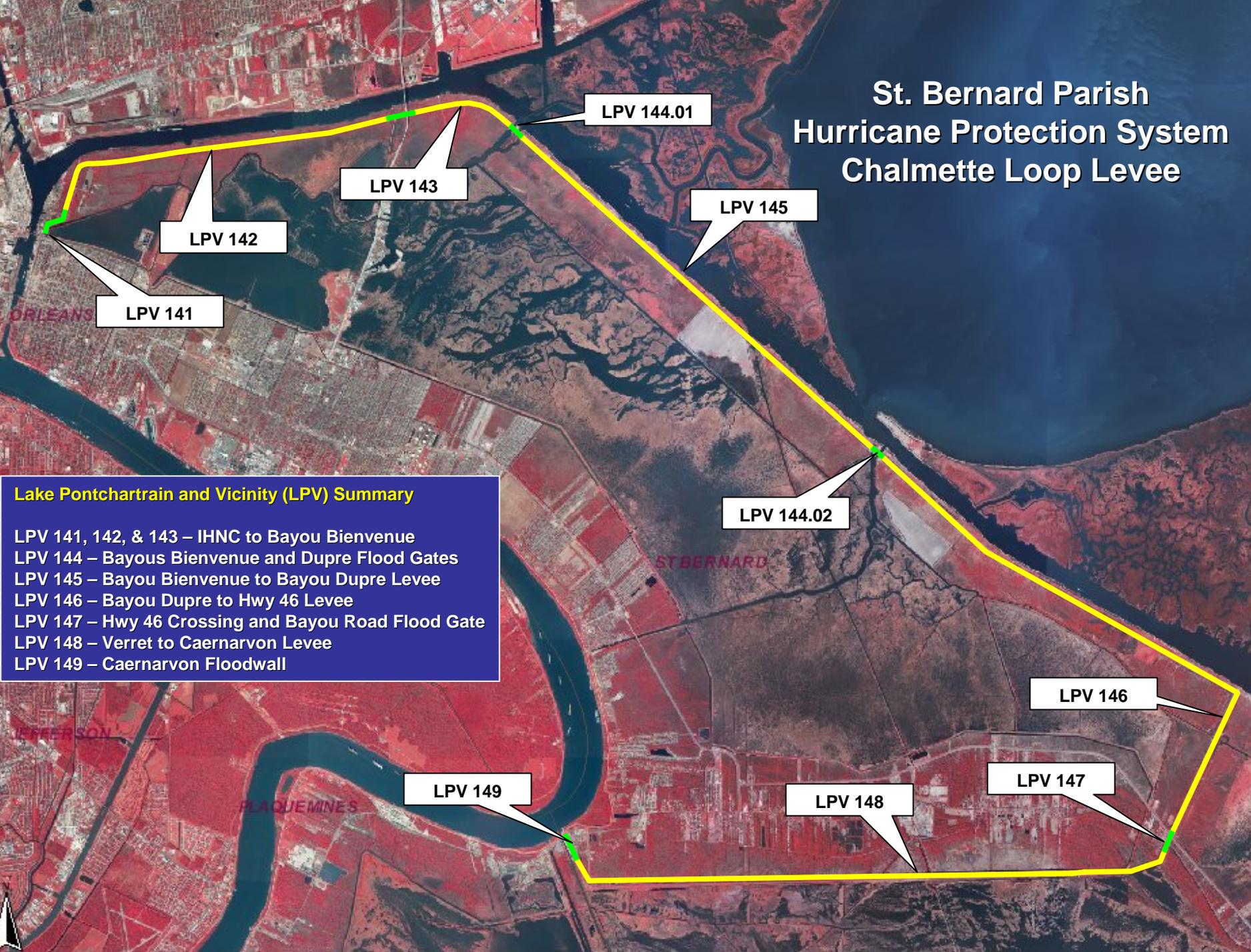
US Army Corps
of Engineers

Status of the Hurricane Protection System St. Bernard Parish

Individual Environmental Report
Public Meeting
October 24, 2007

One Team: Relevant, Ready, Responsive and Reliable

St. Bernard Parish Hurricane Protection System Chalmette Loop Levee



Lake Pontchartrain and Vicinity (LPV) Summary

- LPV 141, 142, & 143 – IHNC to Bayou Bienvenue
- LPV 144 – Bayous Bienvenue and Dupre Flood Gates
- LPV 145 – Bayou Bienvenue to Bayou Dupre Levee
- LPV 146 – Bayou Dupre to Hwy 46 Levee
- LPV 147 – Hwy 46 Crossing and Bayou Road Flood Gate
- LPV 148 – Verret to Caernarvon Levee
- LPV 149 – Caernarvon Floodwall

Current Status

- **LPV 142: Southside of GIWW**
 - **Levee being raised to elevation 15.0'**
 - **Some sandy material found in the levee which is being replaced with suitable material for levee construction**
 - **Continuing investigations to determine if more sandy material is present, if found appropriate corrective actions will be taken**
- **LPV 148.01: Verret to Caernarvon (Phase I)**
 - **Proposals received 10 Oct 07**
 - **Award construction contract scheduled for 31 Oct 07**



Current Status (cont.)

- **LPV 144 – 149: Chalmette Loop Levee System**
 - Investigating various options to provide 100-yr level of protection (described on following slides)
 - Scheduled to initiate design January/February 2008
- **St. Bernard Back Levee**
 - Currently investigating the feasibility of incorporating the back levee into the Federal system

Need for Alternatives Analysis

1. To reduce overall costs

- ◆ Current cost estimate for St. Bernard Parish 100-yr ranges from \$1.2B to \$3.3B
- ◆ As set by Congress, 100-yr levee work requires a local cost share of 30% (\$360M - \$990M)

2. To ensure that the most effective hurricane protection measure is designed and constructed

- ◆ No decision regarding alternatives are finalized
- ◆ Federal levee vs. non-Federal levee
- ◆ Combined Federal and non-Federal system

3. Required for Environmental compliance



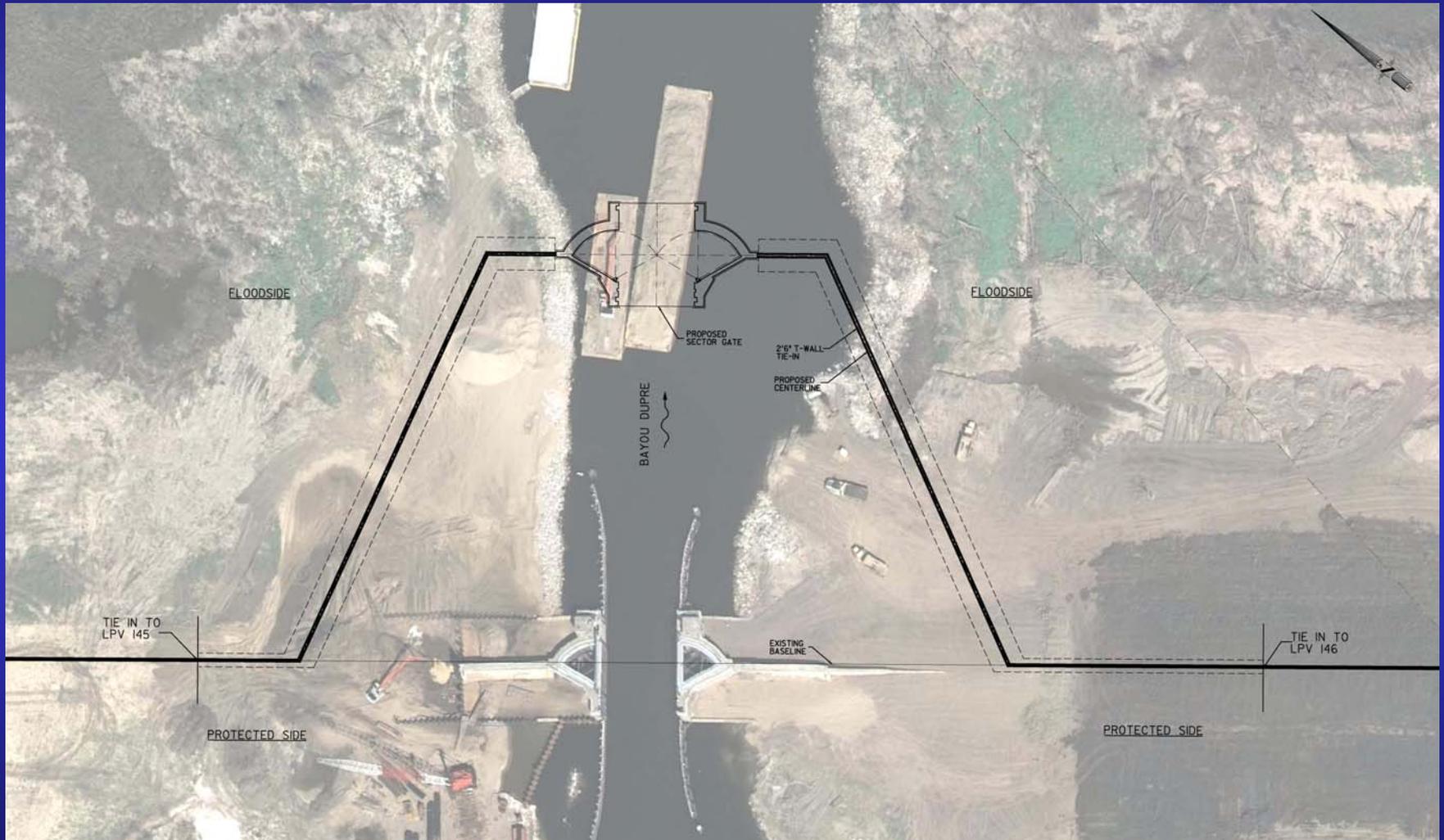
Alternatives Being Investigated

1. Replacement of existing floodwalls and floodgates
2. Elimination floodgates where possible
3. Levee Enlargement
 - Straddle Existing Alignment with growth to either side
 - Flood-side Shift (all toe-to-toe growth occurs on flood side of levee)
 - Protected-side Shift (all toe-to-toe growth occurs on protected side of levee)
 - Earthen Levee Using Stability Berm
 - Earthen Levee Using Deep Soil Mixing
4. T-wall Floodwall
5. Earthen levee with T-wall Floodwall Cap
6. Raising roadways/highways via ramps
7. Raising roadways/highways via bridges



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LPV 144 – Bayou Dupre



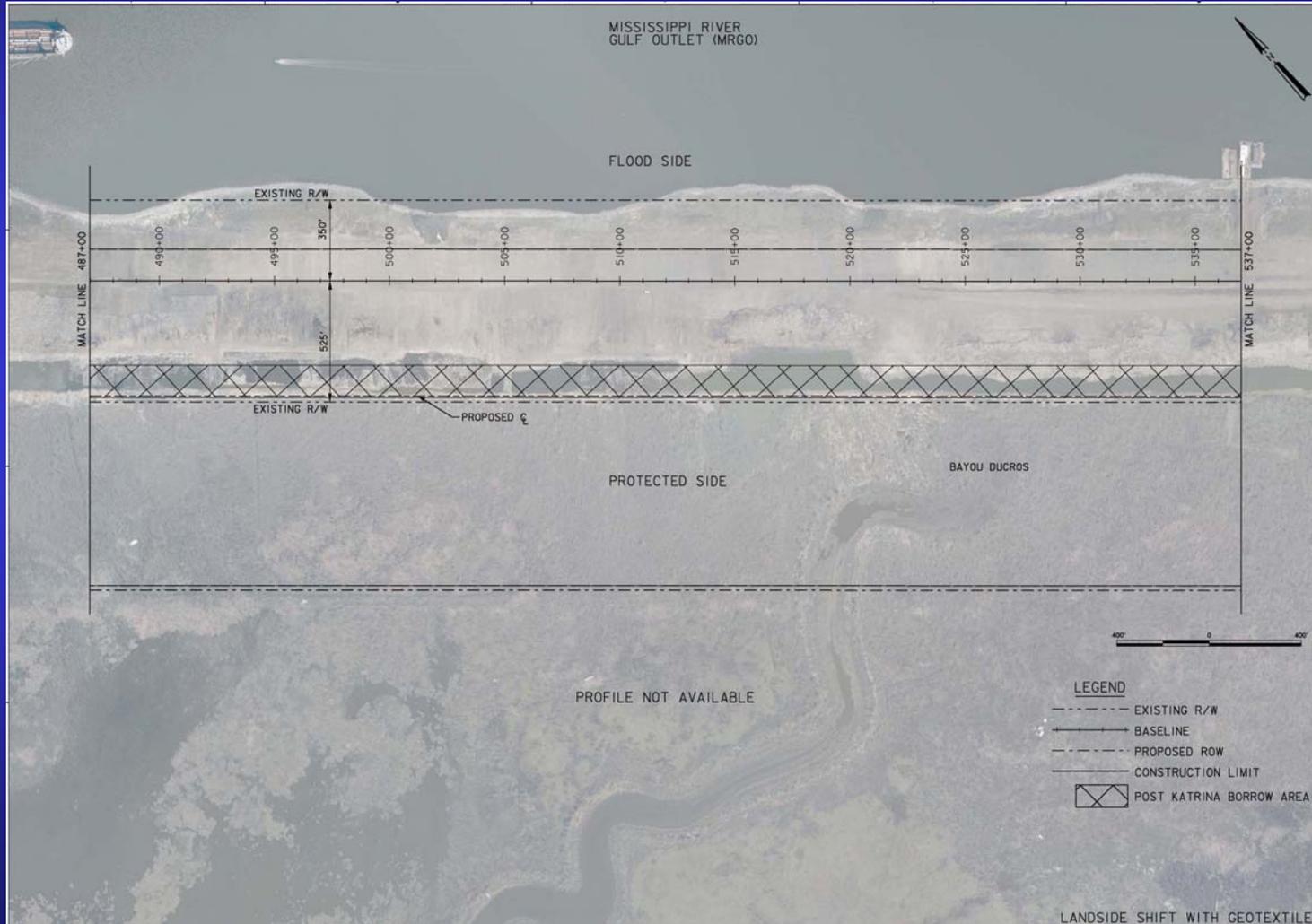
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LPV 145

Bayou Bienvenue to Bayou Dupre



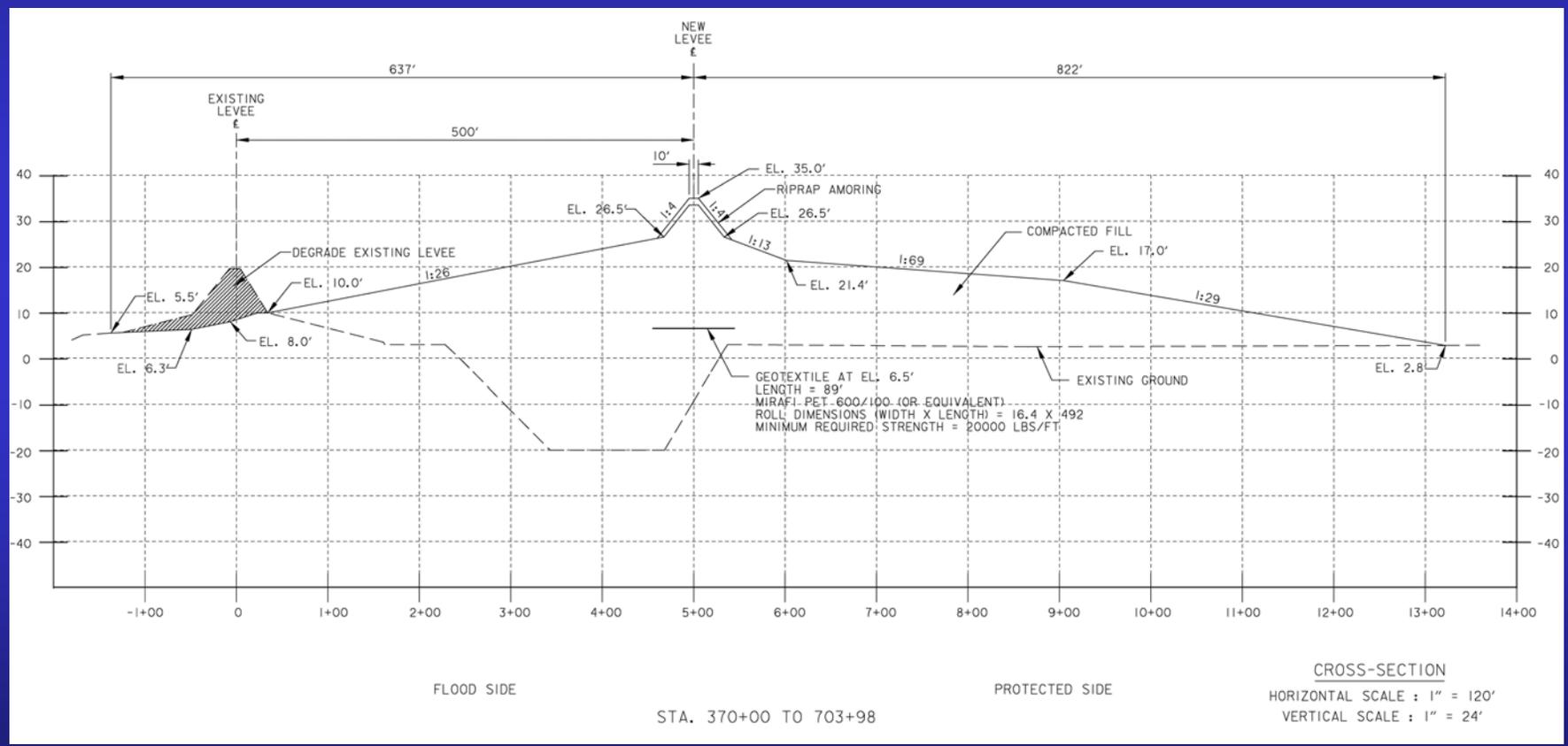
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LPV 145

Bayou Bienvenue to Bayou Dupre

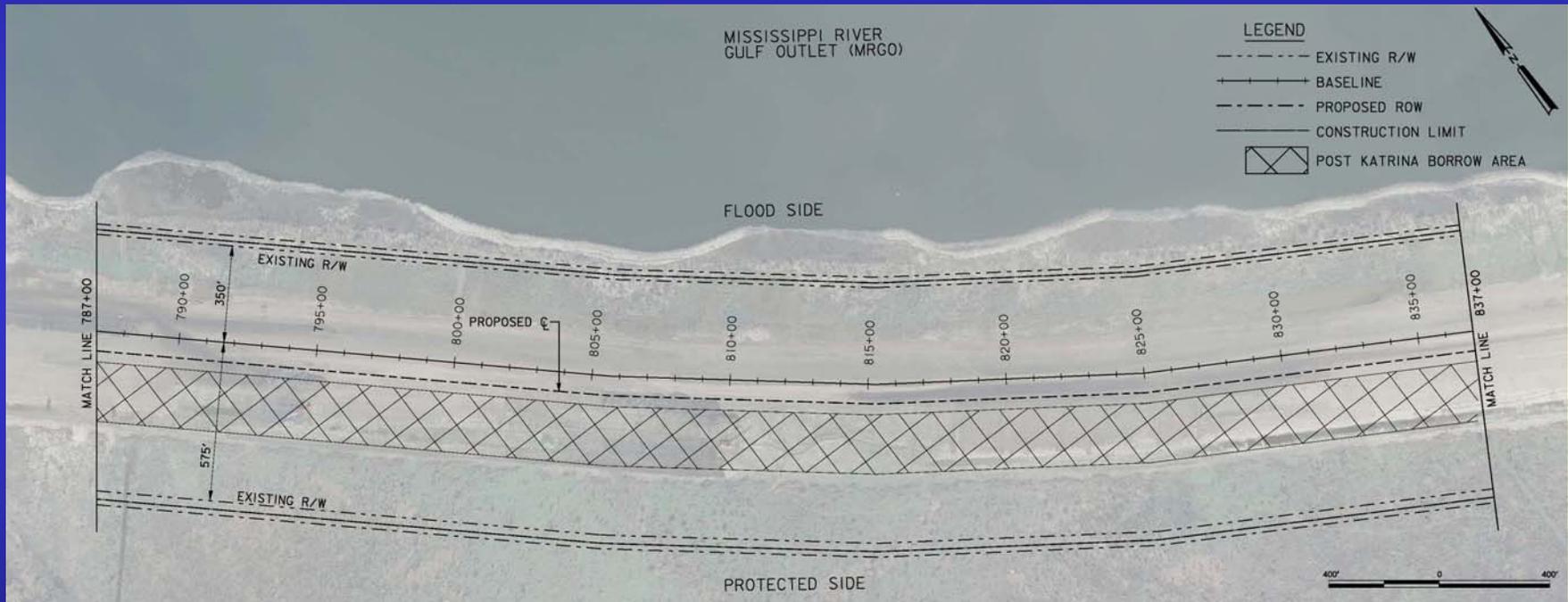




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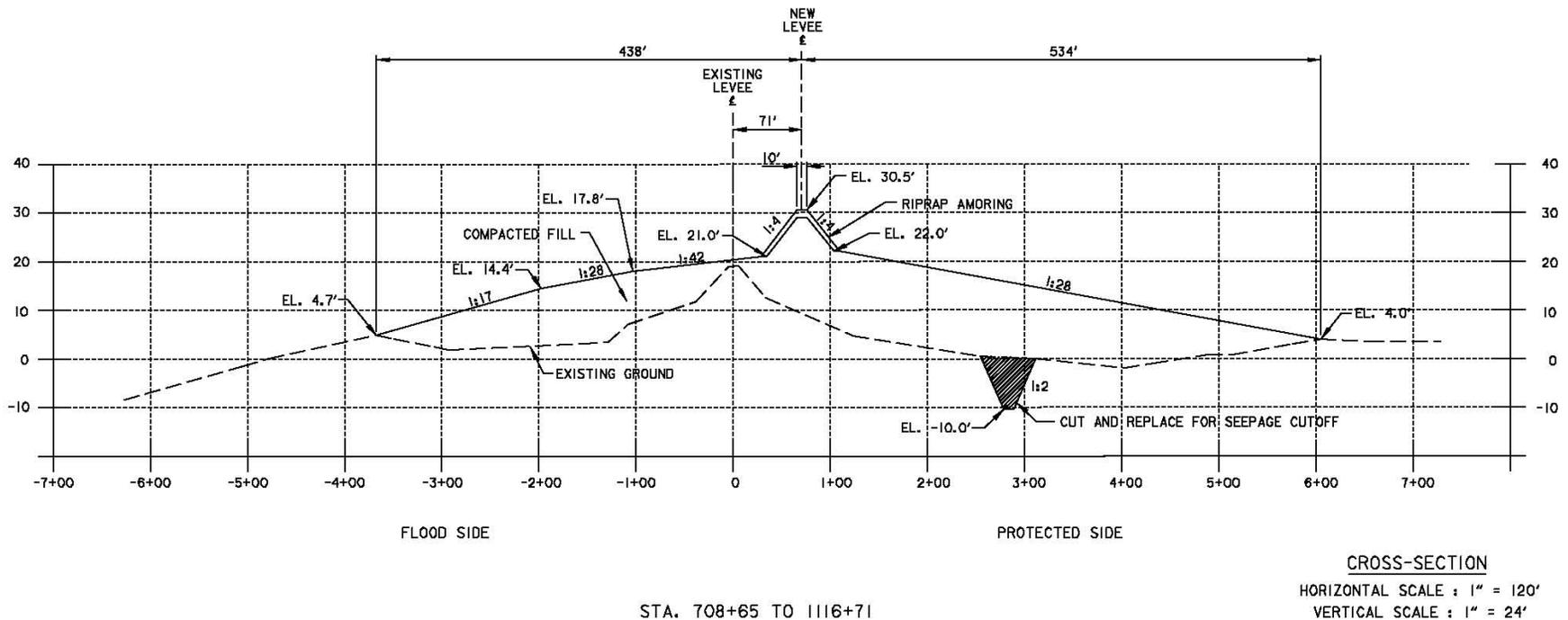
LPV 146

Bayou Dupre to Verret



LPV 146

Bayou Dupre to Verret

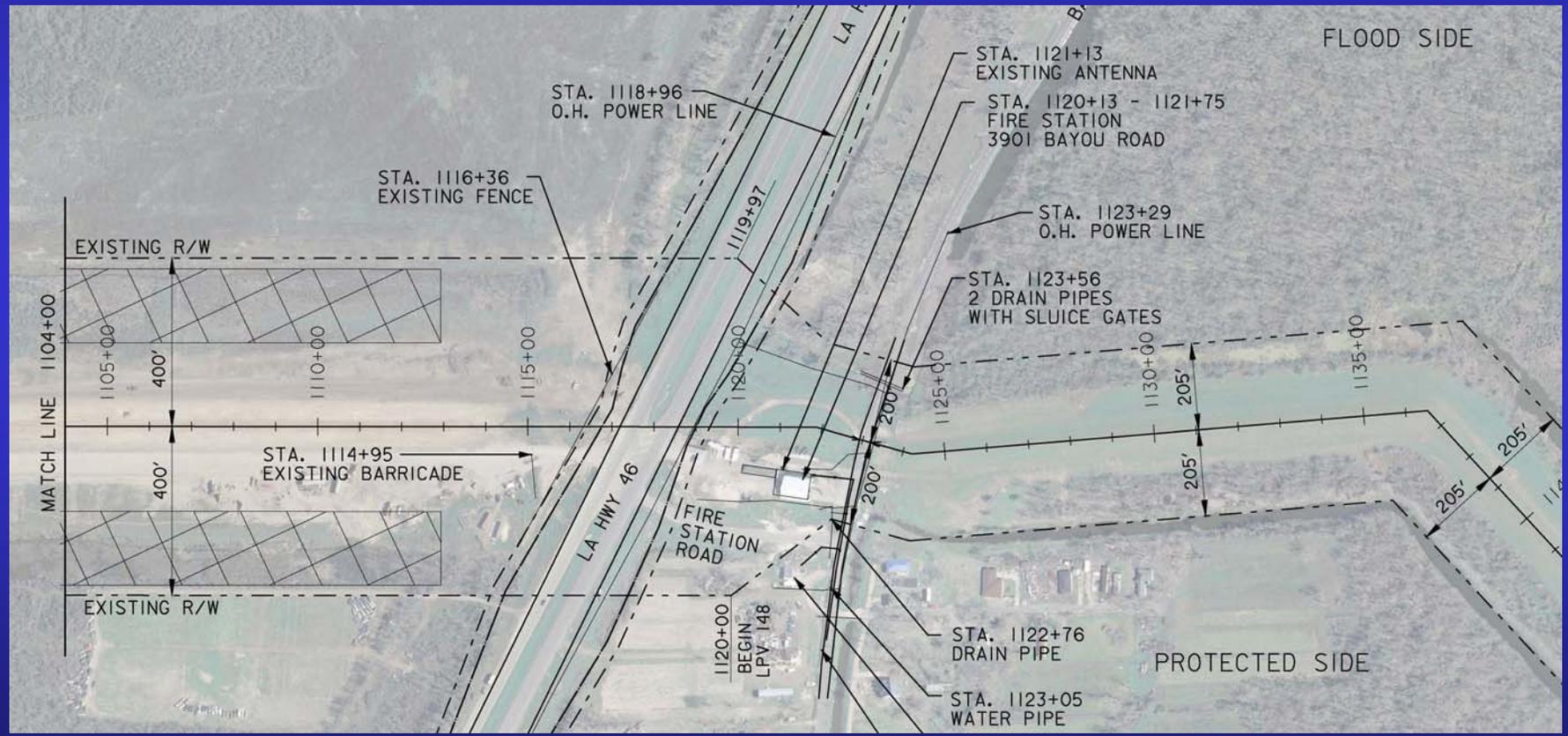




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LPV 147

Hwy 46 and Bayou Road (Near Verret)



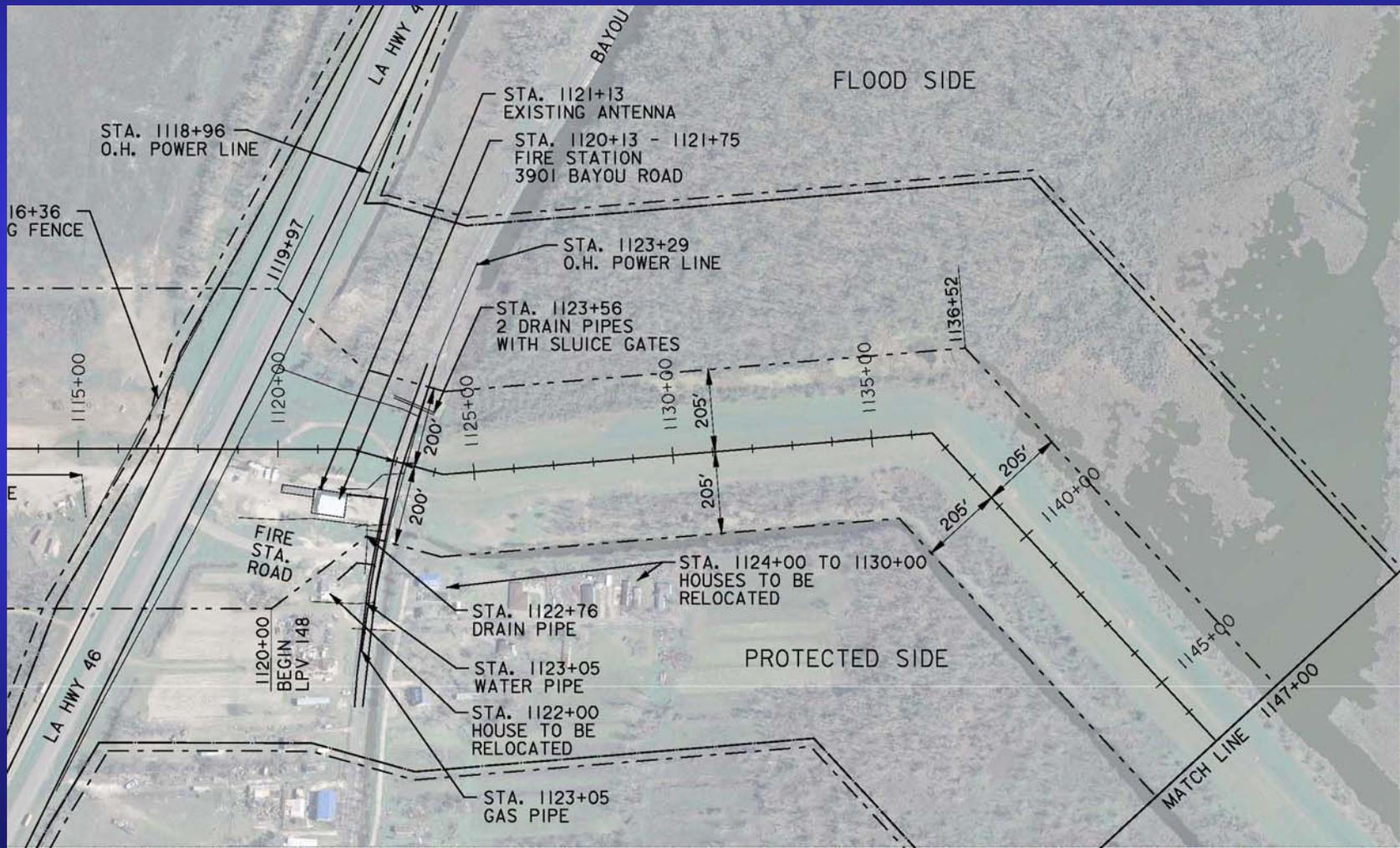
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LPV 148.02

Verret to Caernarvon (Phase II)



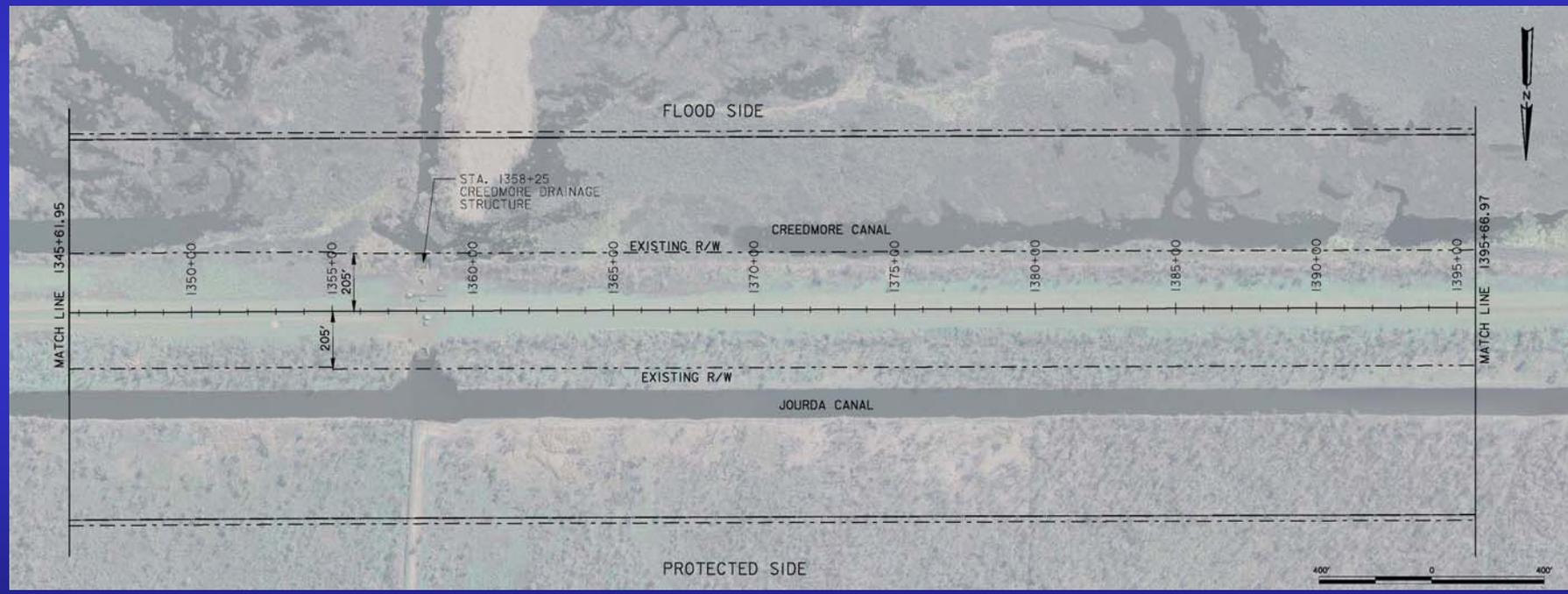
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LPV 148.02

Verret to Caernarvon (Phase II)



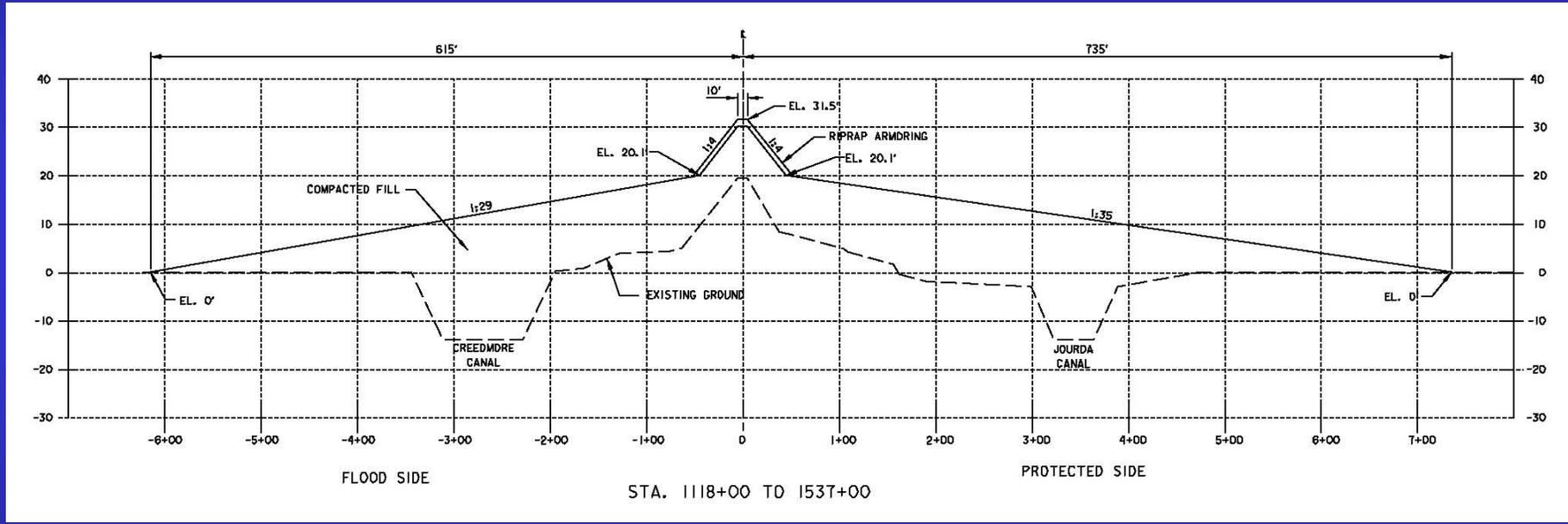
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LPV 148.02

Verret to Caernarvon (Phase II)

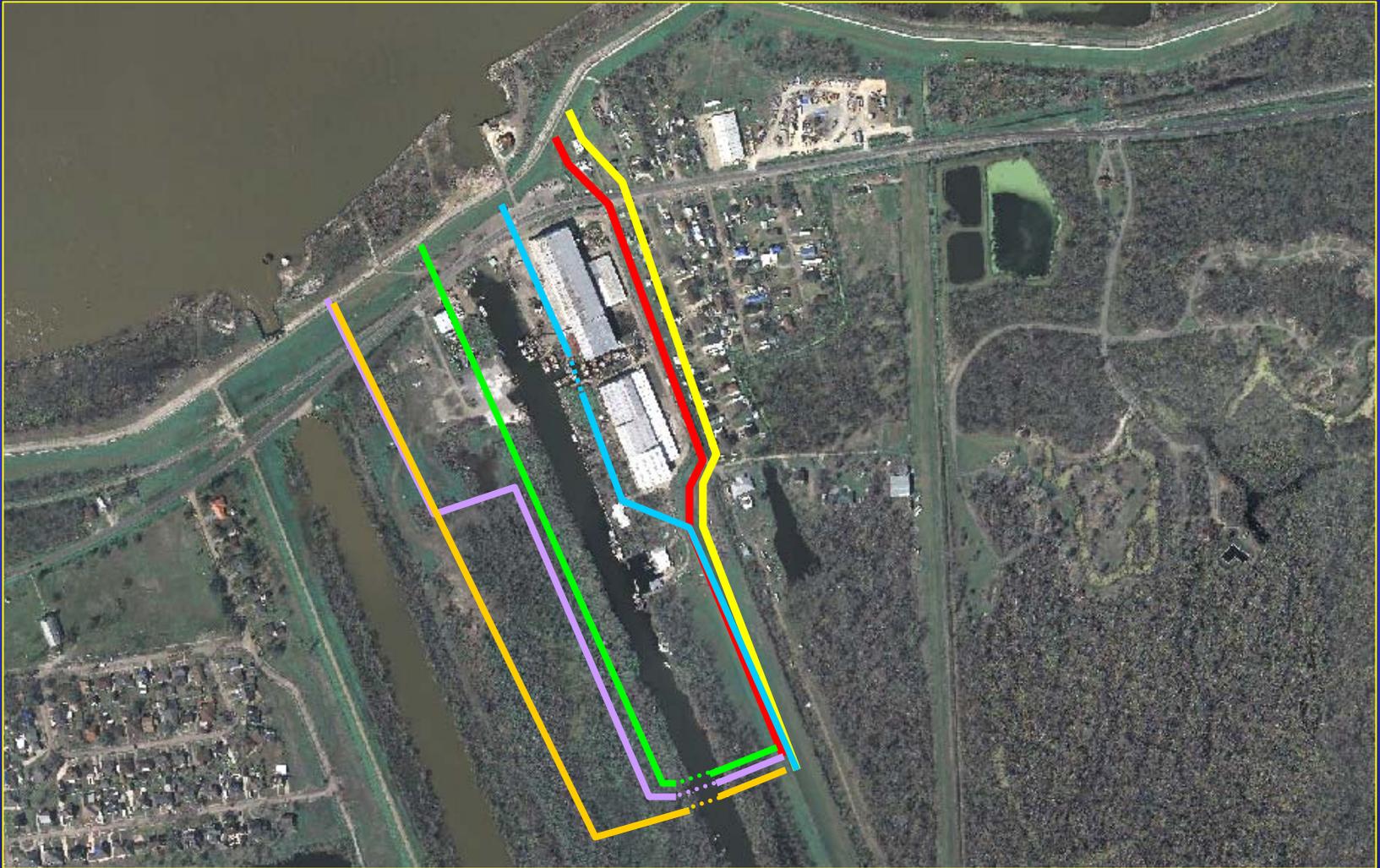




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LPV 149

Caernarvon Floodwall



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— Floodwall Centerline
Alternative 1A

0 200 400 800 Feet



Floodwall Centerline

Alternative 1B

0 200 400 800 Feet



Structure

Levee Centerline

Alternative 2

0 200 400 800 Feet

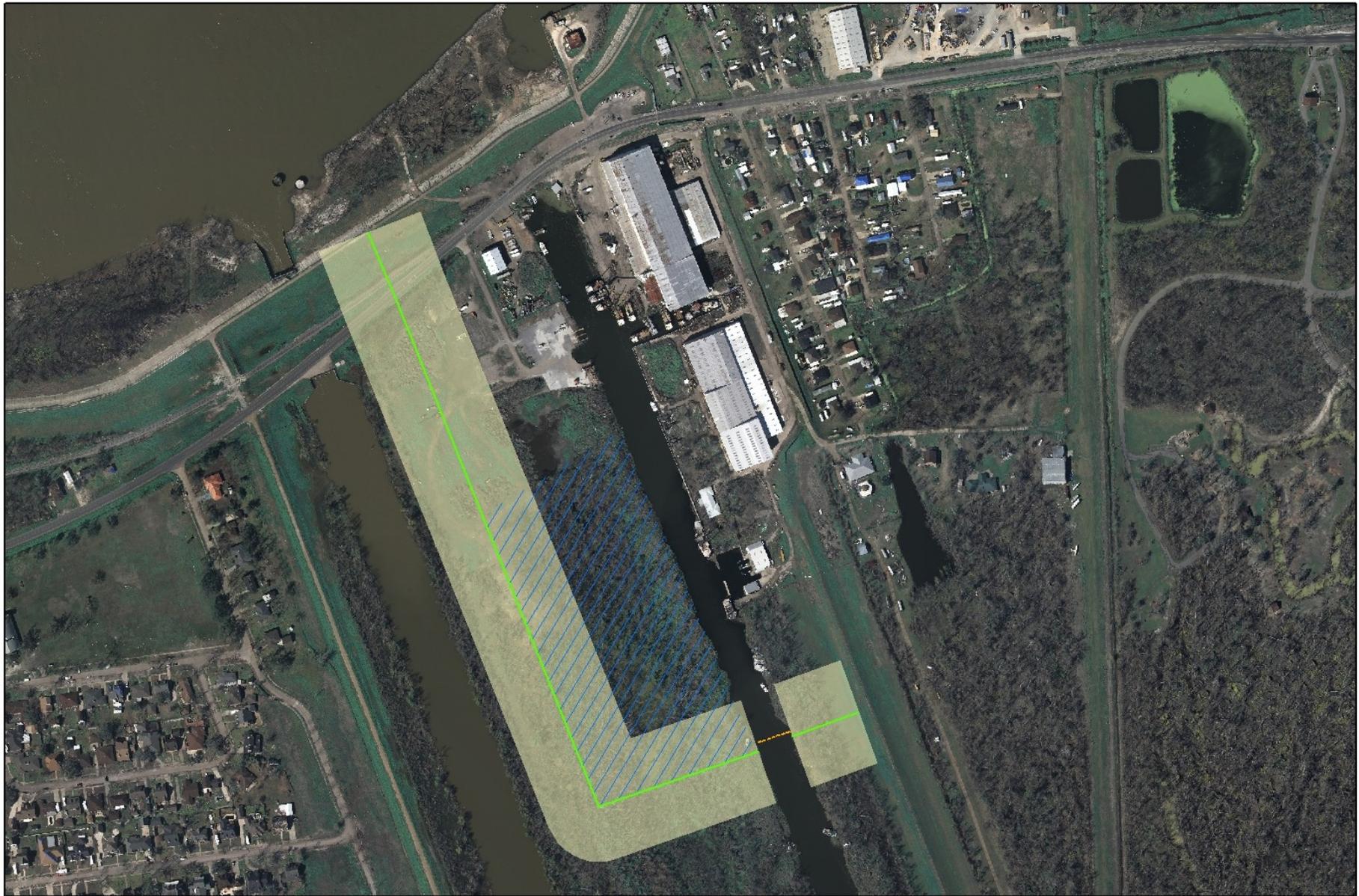


----- Structure

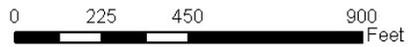
———— Levee Centerline

Alternative 3

0 200 400 800 Feet



- Structure
- Alternative 4
- Levee Centerline
- Additional Alternatives

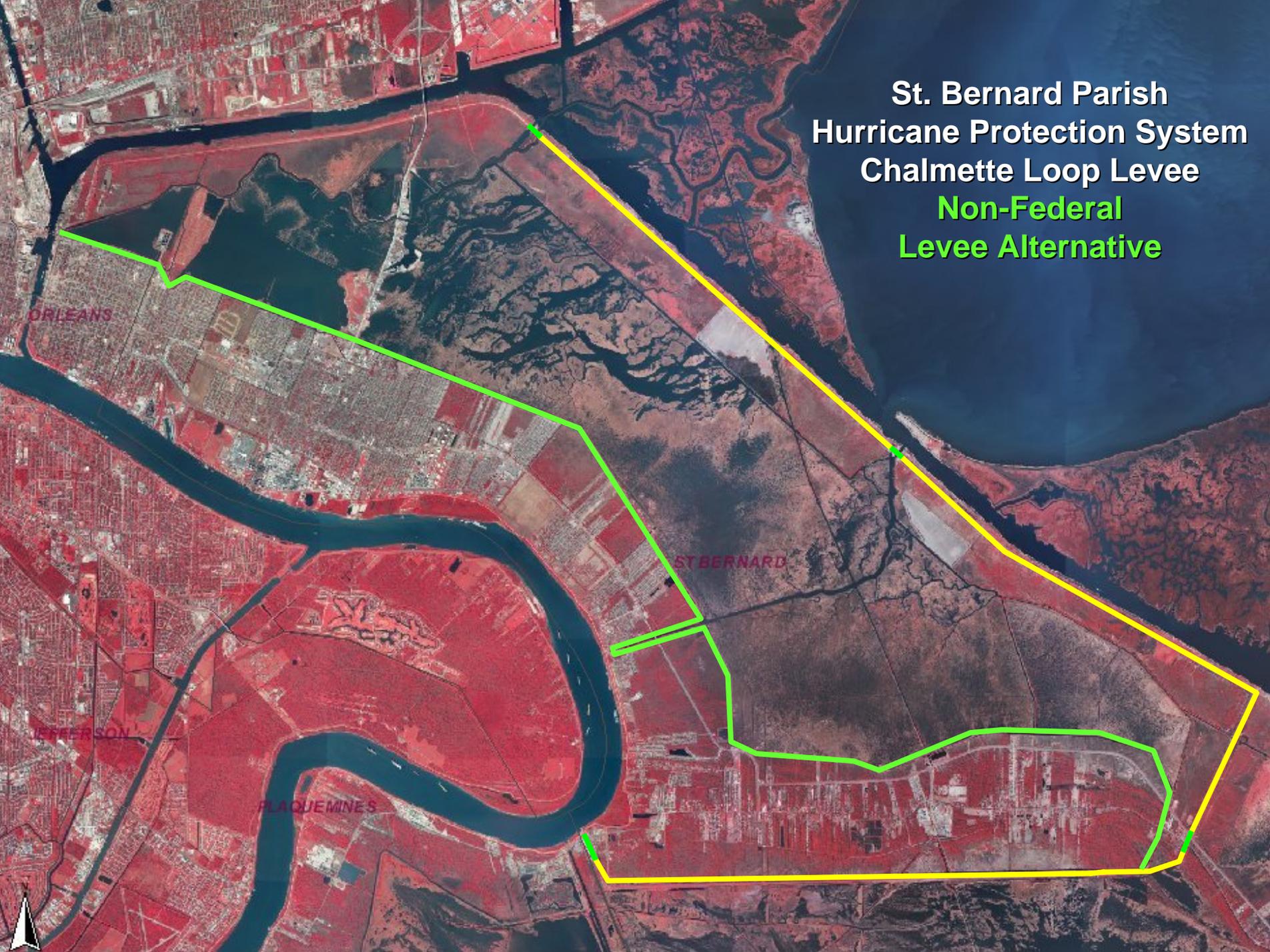




- Structure
- Floodwall Centerline
- Alternative 5



**St. Bernard Parish
Hurricane Protection System
Chalmette Loop Levee
Non-Federal
Levee Alternative**



ORLEANS

ST BERNARD

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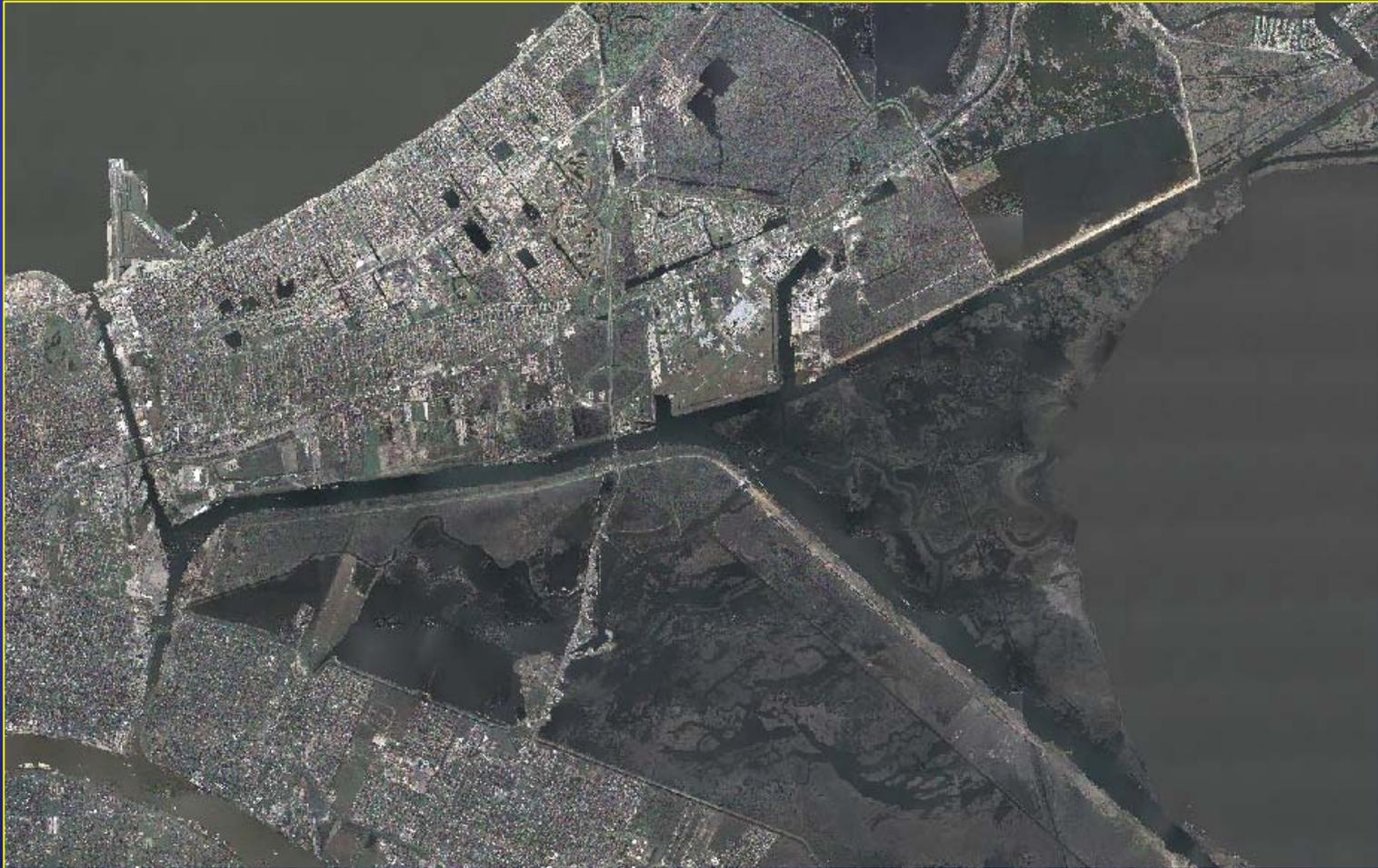
PLAQUEMINES





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Improving Hurricane Protection on the Inner Harbor Navigation Canal IER #11



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Alternatives

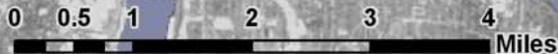
1. No Action

2. Raise buildings in flood zone

3. Raise levees and floodwalls

4. Construct channel and/or water body structures

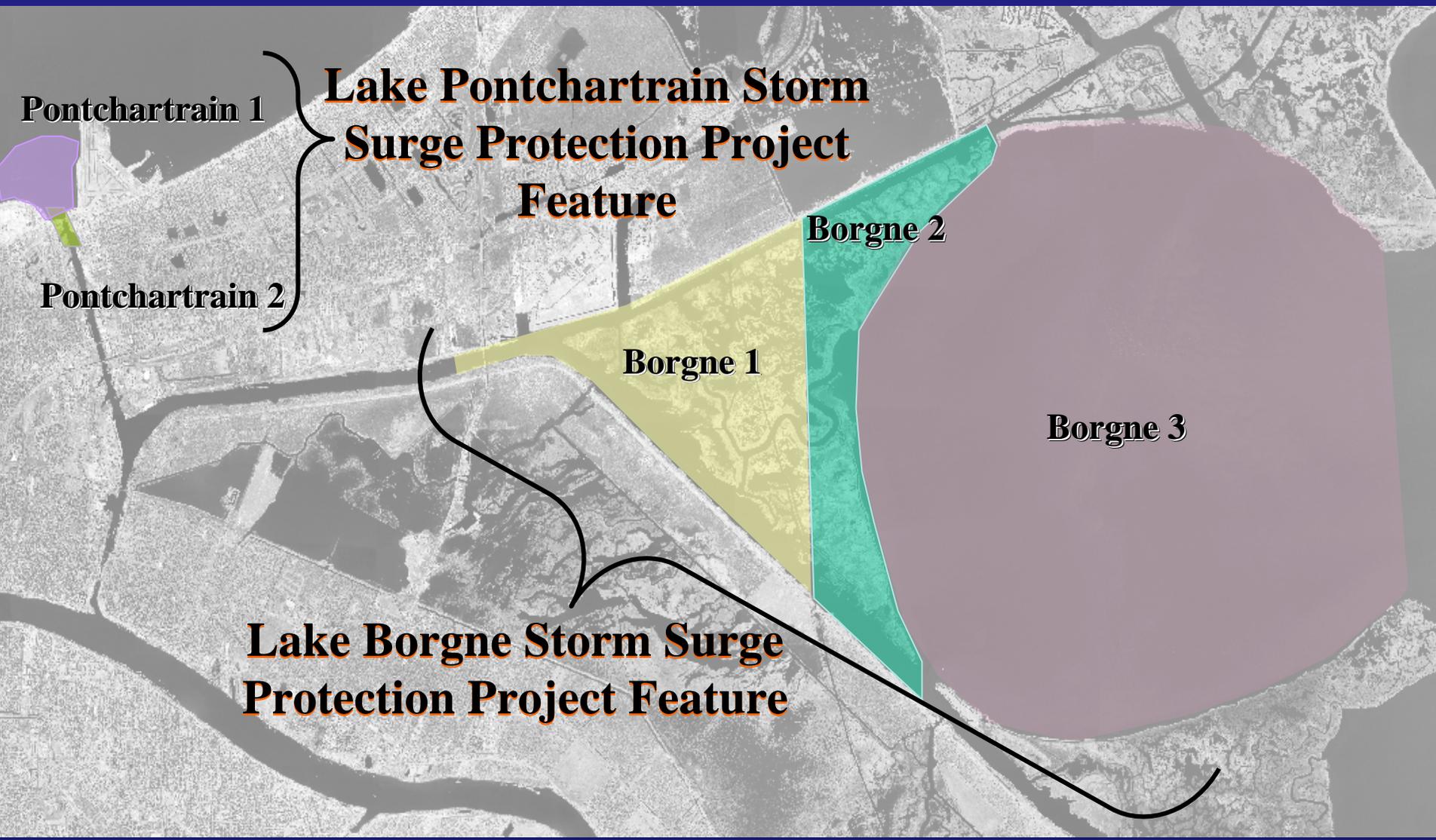
5. Construct wetlands





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Alternative 4: Project Features and Location Ranges



Alternatives and Preliminary Impacts to Significant Resources

No Action: Bring to authorized grade

Socio economic impacts: lack of adequate hurricane protection would result in flooding from some hurricanes.

Non-structural: Raise buildings.

Socio economic impacts: damages to buildings would be reduced but study area would be subject to flooding

Raise levees and floodwalls to 100 year flood protection level

Possible HTRW contamination and water quality impacts from sediment disturbance and construction activities, must maintain navigation so footprint would impact businesses and adjacent households, tree removals.

Construct channel and/or water body structures for storm surge protection

Various acreages of wetland and habitat impacts, salinity changes, shoreline erosion, short-term construction impacts to water quality, fisheries impacts, T&E impacts, tree removals.

Construct wetlands

Socio economic, impacts to flow and corresponding impacts to wetlands, salinity, sedimentation, fisheries impacts, short-term construction impacts to water quality, T&E impacts.

Opportunities for Public Input

- Monthly Public Meetings throughout New Orleans Metro Area
 - Make sure to sign in tonight to get on our meeting notification mailing list
- Comments can be submitted at any time at www.nolaenvironmental.gov
- Individual Environmental Reports (IER) 30-day Public Review

Tentative Start Dates

- IER 8: Bayou Bienvenue & Bayou Dupre Control Structures (LPV 144)
 - » Begins December 14, 2007
- IER 9: Caernarvon Floodwall (LPV 149)
 - » Begins December 8, 2007
- IER 10: Chalmette Loop Levees (LPV 145-148.02)
 - » Begins December 29, 2007
- IER 11: Improved Protection on IHNC
 - » Begins January 15, 2008



**US Army Corps
of Engineers**

**Questions and comments regarding Hurricane Protection Projects
should be addressed to:**

Gib Owen

PM-RS

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New Orleans, LA 70160-0267

E-mail: mynenvironmental@usace.army.mil

Telephone: 504-862-1337

**Your comments are welcome anytime now until the close
of the IER Public Review Period**



Environmental Processes and NEPA Compliance

[What is NEPA?](#)

FEATURED PROJECT



USACE-MVN Emergency Alternative Arrangements
West Bank & Vicinity & Lake Pontchartrain & Vicinity
Hurricane Protection Projects

[USACE NEPA Questions & Answers](#)

[USACE Alternative Arrangements NEPA Process](#)

[USACE Alternative Arrangements NEPA Process Appendix](#)

Welcome to NOLA Environmental! This site has been set up to share with the public the efforts being made by the U.S. Army Corps of Engineers and other Federal and state agencies in south Louisiana regarding the environmental compliance for proposed Federal and state Hurricane Protection Projects. Additional information pertaining to other Federal and state agencies' hurricane recovery efforts in southeast Louisiana will also be posted on the site as it becomes available.

The U.S. Army Corps of Engineers, Mississippi Valley Division, New Orleans District implemented Alternative Arrangements on March 13, 2007 under the provisions of the Council on Environmental Quality Regulations for Implementing the **National Environmental Policy Act** (40 CFR § 1506.11). This process was implemented in order to expeditiously complete environmental analysis for the 100-year level of Hurricane and Storm Damage Reduction effort authorized and funded by the Administration and the Congress. The proposed actions are located in southern Louisiana area and relate to the Federal effort to rebuild the Hurricane and Storm Damage Reduction system in the New Orleans Metropolitan area as a result of Hurricanes Katrina and Rita. [\[Learn More\]](#)

UPCOMING EVENTS:

[Public Meeting](#): July 26, 2007 7:00 pm, St. Charles Sub Basin ~ Ramada Inn 100 James Drive St. Rose, LA 70087

nolaenvironmental.gov