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National Environmental Policy Act “NEPA”

- Required for all major Federal actions
- Analyze potential impacts to the human and natural environment and investigate reasonable alternatives
- Analyses documented in Environmental Assessments (EA), Environmental Impact Statements (EIS), or Individual Environmental Reports (IER)
- Public involvement is KEY: We want to hear from you!
- **Goal: more informed decision making through public involvement**



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IER #4

New Orleans Lakefront Levees & Floodwalls

Purpose and Need: Provide for the 100-year
Level of the Hurricane and Storm Damage
Risk Reduction System



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Status

Where We Are:

- March/April 07: NEPA Process began with Public Scoping Meetings
- **Nov 07 through July 08:** Developing alternatives and conducting impacts analysis and soliciting public input

Where We Are Going:

- July 08: Release Draft IER #4
- August 08: End of 30-day Public Review, Make Final Decision – District Commander signs final IER document

New Orleans Lakefront Levee - Current Construction: Phase 1 of 100-year level of protection



**LPV 101-
17th Street
Canal to
Topaz Street:**
*Currently in
Design Phase*

*Anticipated
contract award:
1 Qtr '09*

**LPV 102-Topaz
Street to Orleans
Avenue:**
*Contract Awarded
3 Oct 07*

100% Complete

**LPV 103-Orleans
Avenue Canal to
London Avenue
Canal:**
*Contract Awarded
3 Dec 07*

50% Complete

**LPV 104-London
Avenue Canal to
IHNC:**
*Contract Awarded
13 July 07*

100% Complete

New Orleans Lakefront Levee Phase 1A & 2 of 100-year Level of Protection



- Modifications or replacement of floodwalls / gates
- Additional embankment work to meet new design criteria
- Raise Road Ramps
- Armoring of transitions & utility crossings



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IER #4 LPV 101.02

17th St. Canal to Topaz St.





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IER #4 LPV 101.02

17th St. Canal to Topaz St.

- **West End Levee**
 - Construct floodwall above existing levee
 - Raise levee
- **Existing Floodwall between gates L-1A and L-5**
 - Retrofit
 - Raise Lake Marina Ave
 - Realignment of floodwall to marina seawall
- **Gate L-1A**
 - Remove and replace existing gate
 - Remove gate and replace with ramp



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IER #4 LPV 101.02

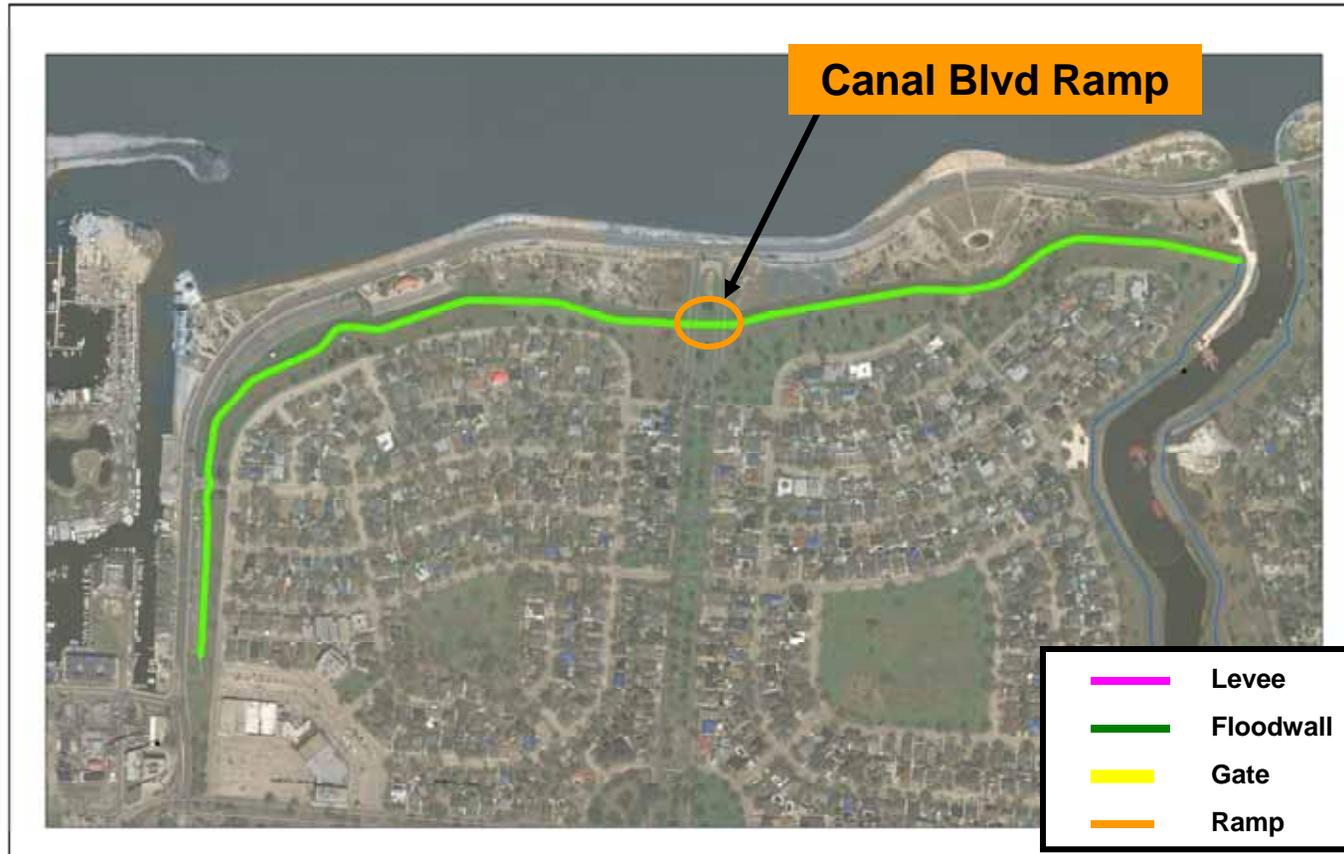
17th St. Canal to Topaz St.

- **Gate L-4 and Floodwalls along Pontchartrain Blvd**
 - Realign HPS and construct new floodwall and gate L-4A adjacent to Lake Marina Ave.
 - Remove floodwall and gate L-4 and replace on existing alignment
- **East End Levee between Topaz Street and Gate L5**
 - Construct floodwall above existing levee
 - Raise levee with and without supplemental retaining walls



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IER #4 LPV 103.01A Topaz to Orleans Canal



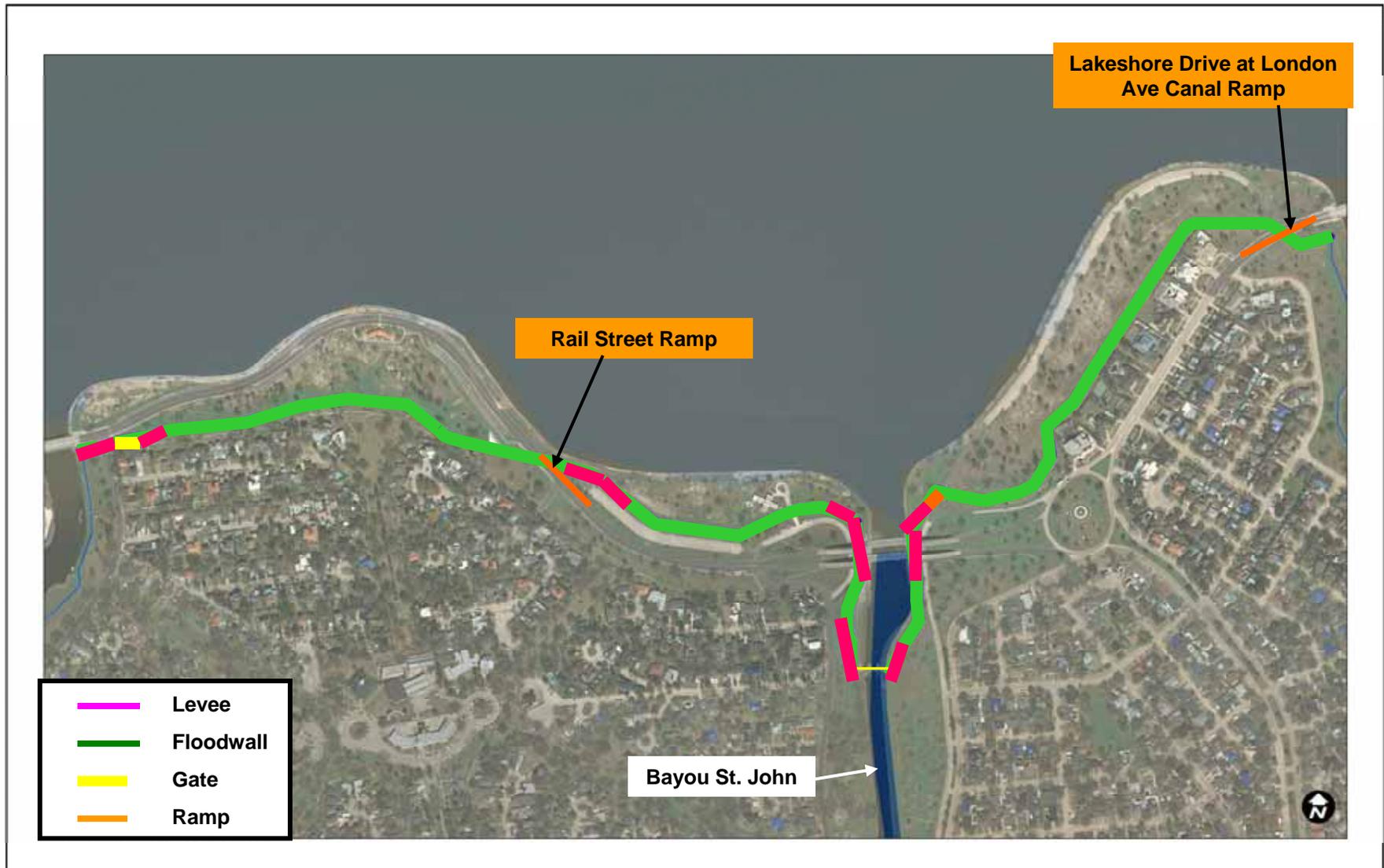
- **Canal Blvd Ramp**
Raise Ramp
Construct New Flood Gate



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IER #4 LPV 103

Orleans Canal to London Ave





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IER #4 LPV 103

Orleans Canal to London Ave

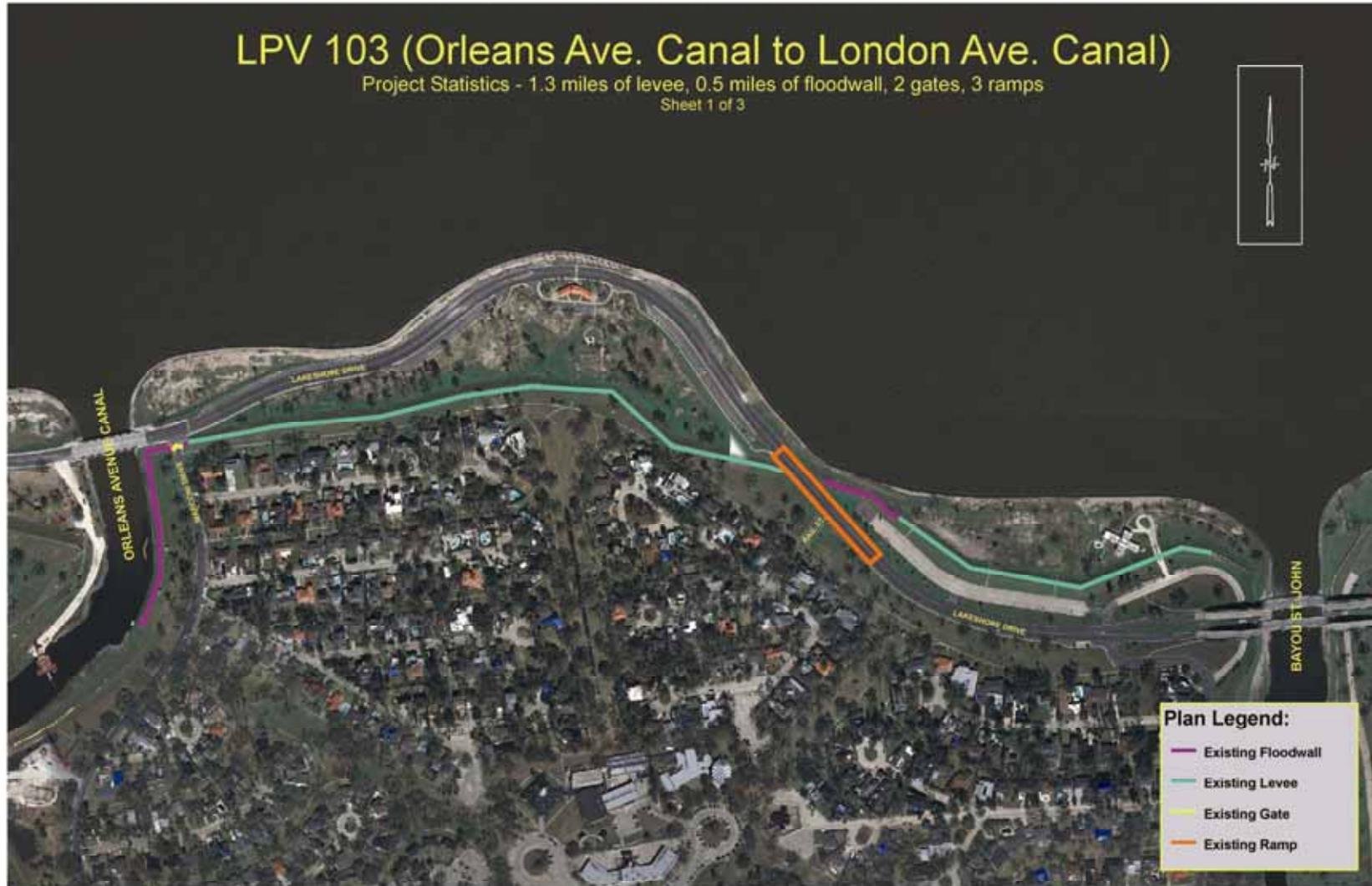
- **Rail Street Ramp**
 - Raise Ramp
 - Construct new floodgate

- **Lakeshore Drive at London Ave Canal Ramp**
 - Raise Ramp
 - Construct new floodgate



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Existing Alignment



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==== **One Team: Relevant, Ready, Responsive, Reliable** ====



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Future Alignment





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Existing Alignment



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One Team: Relevant, Ready, Responsive, Reliable



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Future Alignment





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IER #4 LPV 103

Bayou St. John

- Raise existing sector gate structure; modify or replace existing adjacent T-walls and levees
- Construct new embankment closure structure with sluice gates
- Construct new sector gate structure



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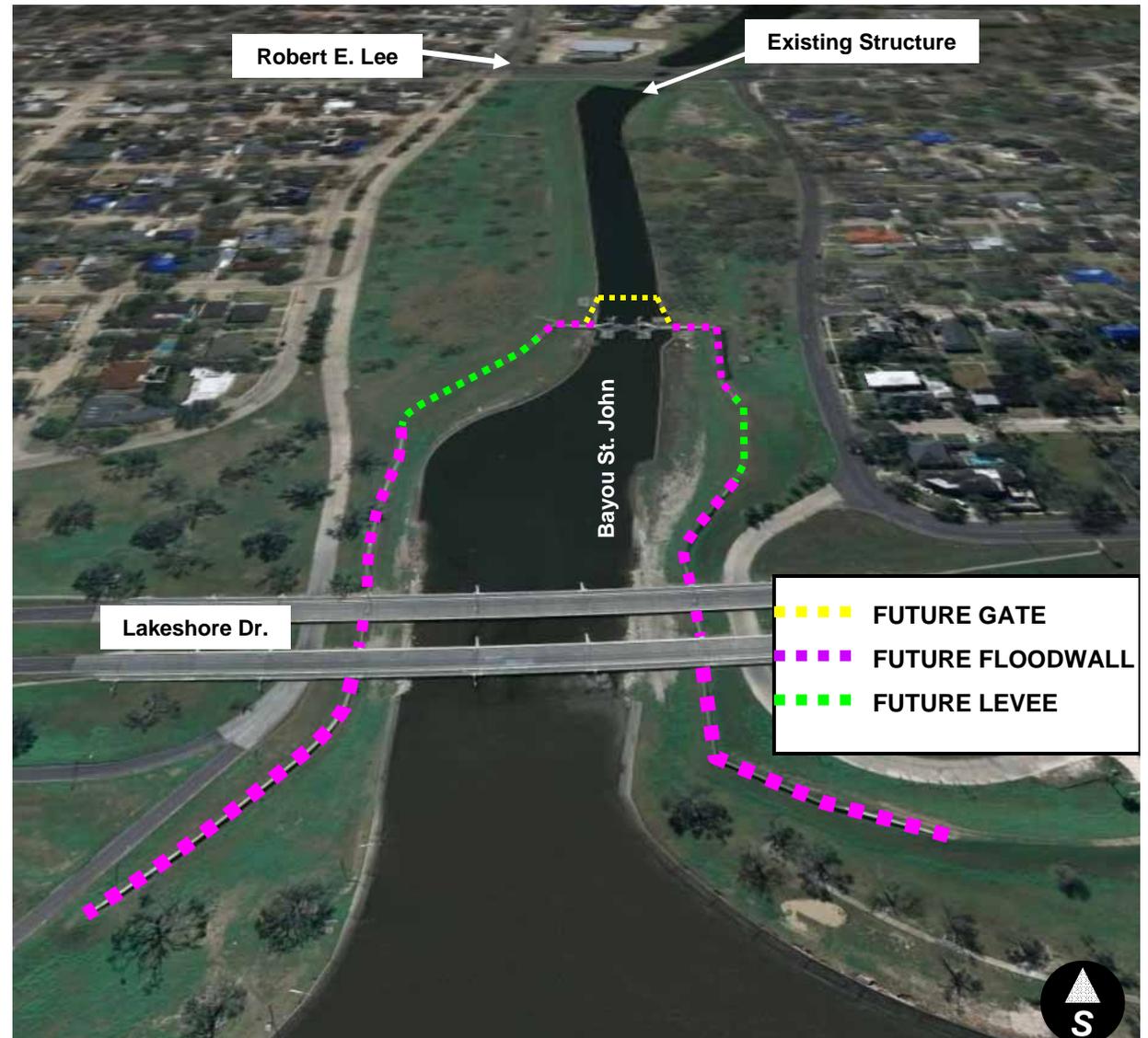
Alternative 1: Raise existing gate structure; modify or replace existing adjacent T-walls and levees

Advantages:

Retains system of levees and floodwalls along bayou

Disadvantages:

More prone to maintenance issues and cost

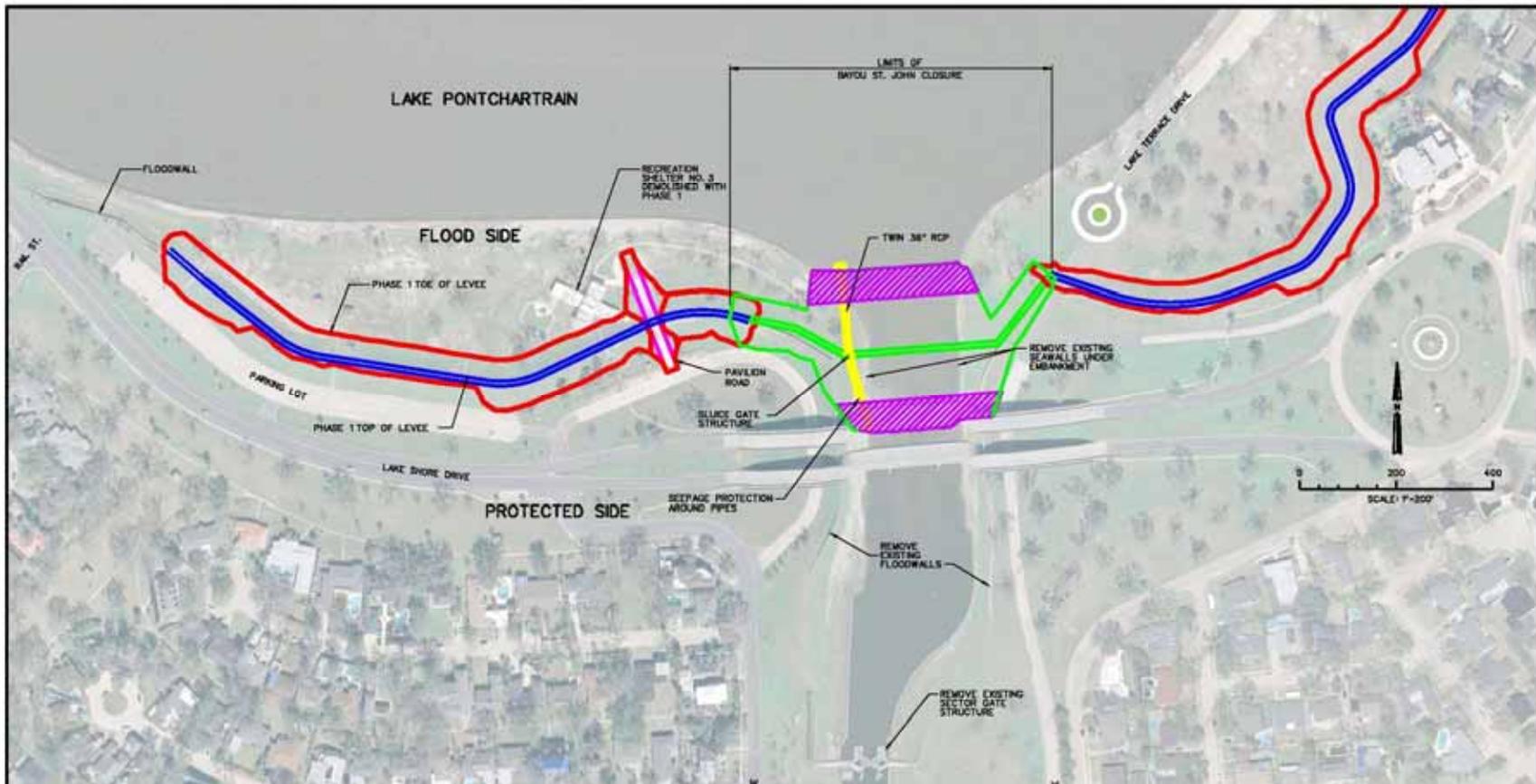




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Alternative 2:

Construct levee with sluice gates



LEGEND:

- RIPRAP
- DRAINAGE STRUCTURE / PIPE
- LIMITS OF CLOSURE LEVEL SECTION
- PHASE 1 LEVEL TOP
- PHASE 1 LEVEL TOP

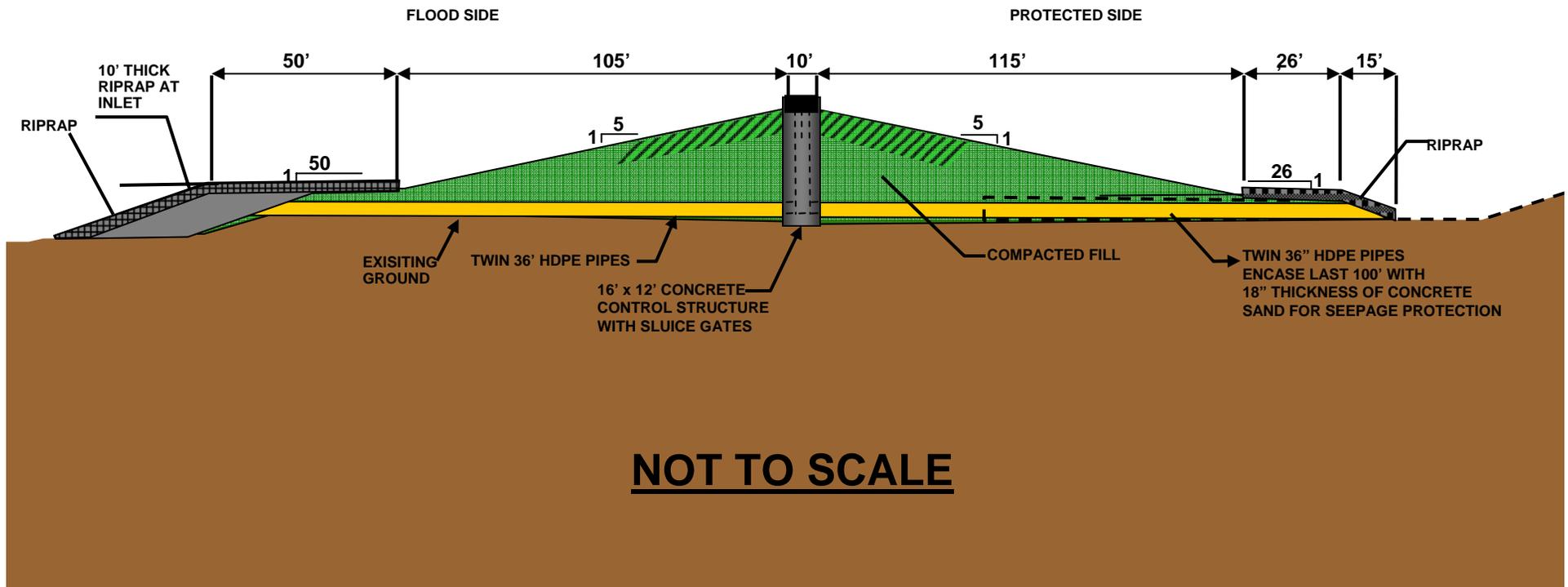
Advantages: Least cost; reduces length of protection and numbers of transitions

Disadvantages: Negative public perception



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Alternative 2 Cross Section: Construct levee with sluice gates





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Alternative 3: Construct levee with sector gate



Advantages: Reduces length of protection and number of transitions

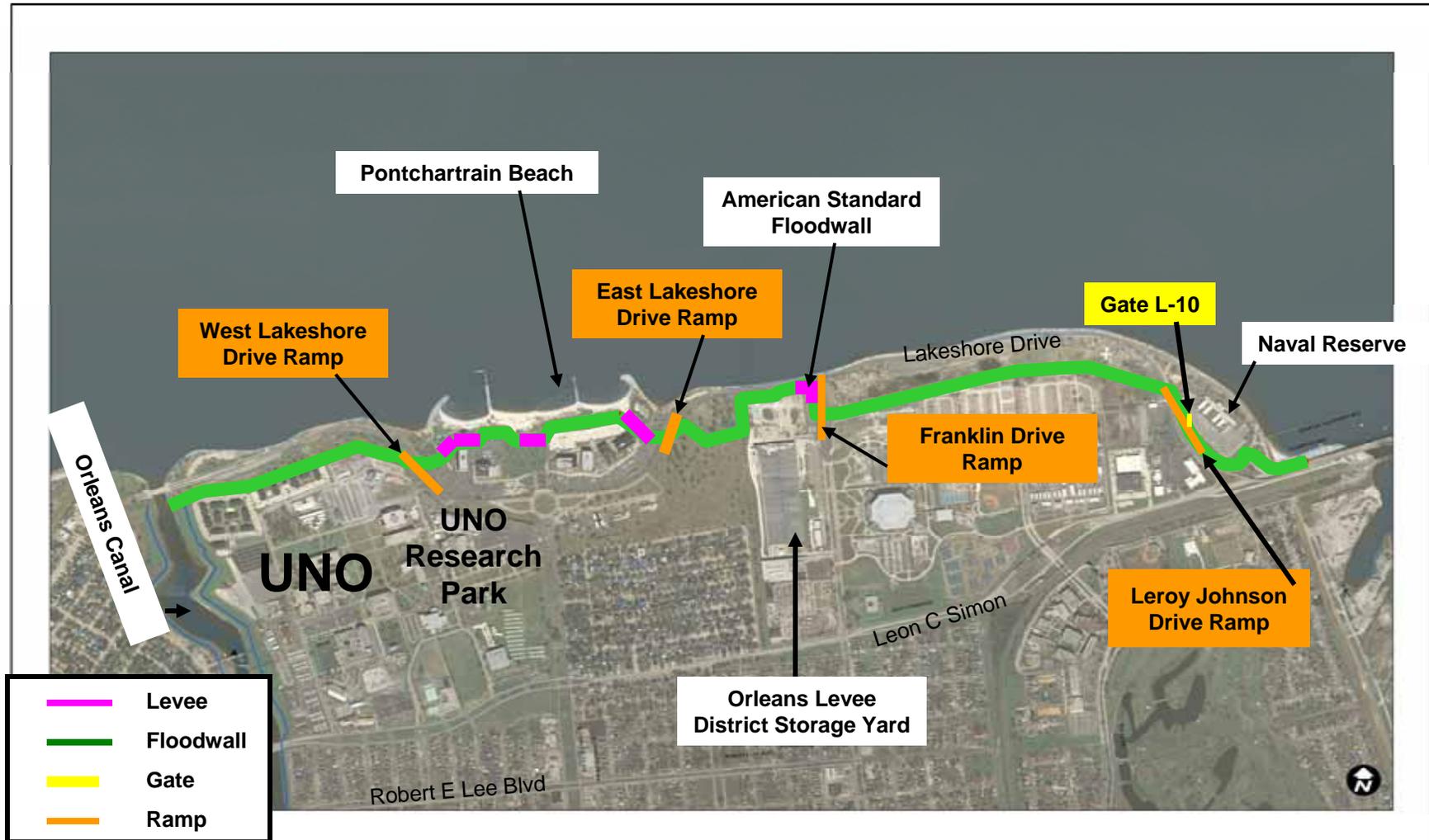
Disadvantages: Highest cost alternative



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IER #4 LPV 104

London Ave Canal to IHNC





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IER #4 LPV 104

London Ave Canal to IHNC

- **Lakeshore Drive ramps east / west of UNO research facility**
 - Raise Ramp
 - Construct Gated closure
- **Pontchartrain Beach**
 - Convert I-wall to L-wall on current alignment
 - Remove gates and replace with new floodwall
 - Remove floodwall and gates and replace with levee section
- **American Standard Floodwall**
 - Convert I-wall to L-wall; leave T-wall as is
 - Construct new floodwall
 - Remove floodwall and replace with levee section



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IER #4 LPV 104

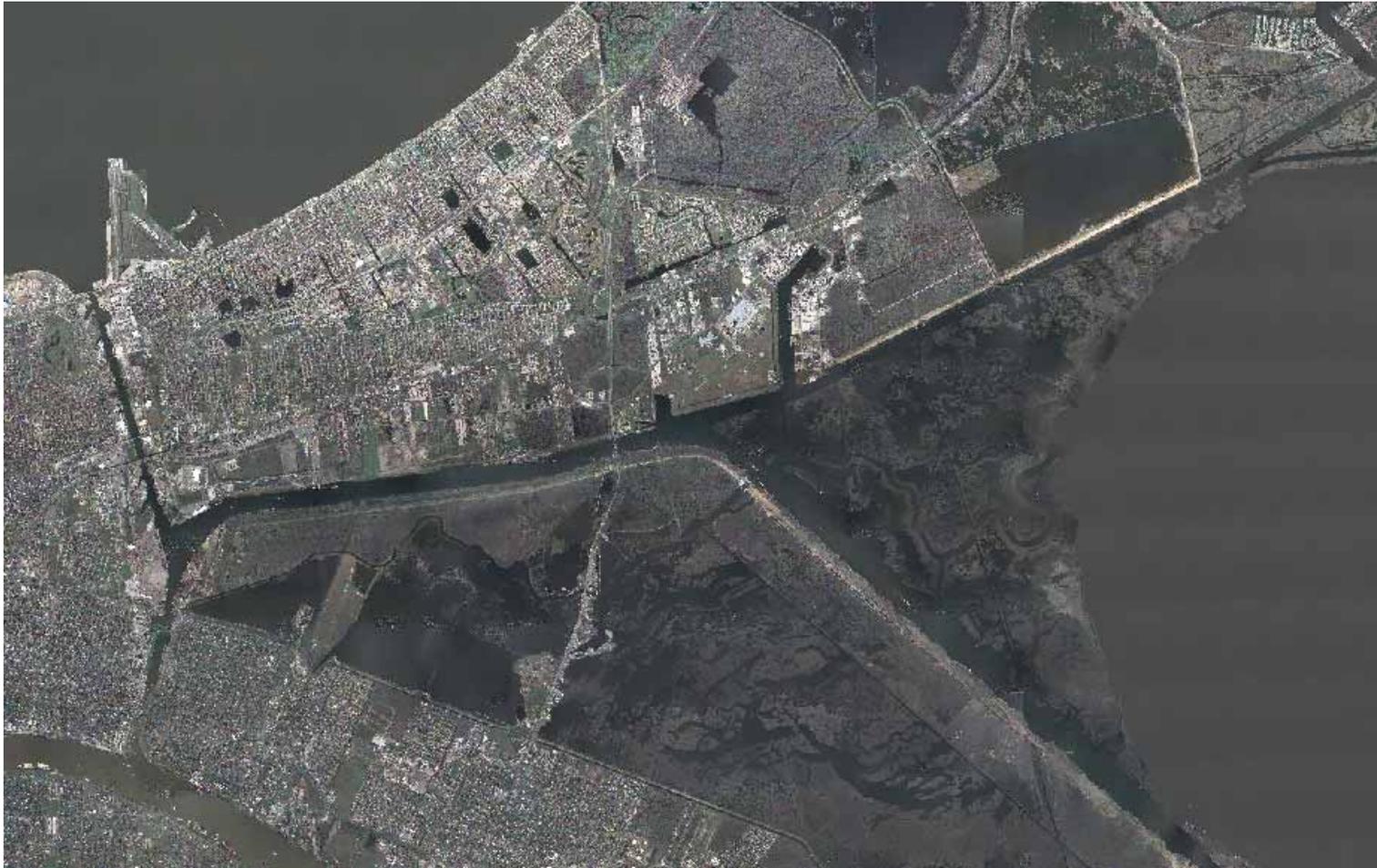
London Ave Canal to IHNC

- **Levee adjacent to OLD storage yard**
 - Raise levee on current alignment
 - Degrade current levee on alignment
- **Leroy Johnson Drive Ramp / Franklin Ave Ramp**
 - Raise Ramp
 - Construct gated closure
- **Naval Reserve Center Levee**
 - Raise levee on current alignment
 - Degrade current levee and constructs new levee on alignment along Lakeshore Drive
- **Gate L-10**
 - Construct new gate
 - Remove gate and replace with levee section



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Improving Hurricane Protection on the Inner Harbor Navigation Canal IER #11 Tier 2 Borgne



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=====
One Team: Relevant, Ready, Responsive, Reliable
=====



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Project Purpose

Provide 100-year level of protection to the communities surrounding the Inner Harbor Navigation Canal (IHNC) from hurricane-induced storm surges by June 2011.

Provide advance measures by hurricane season 2009.



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Where we've been

- IER #11 Tier 1 Decision Record signed March 14th
- Investigated alternatives for providing improved protection for the communities surrounding the IHNC



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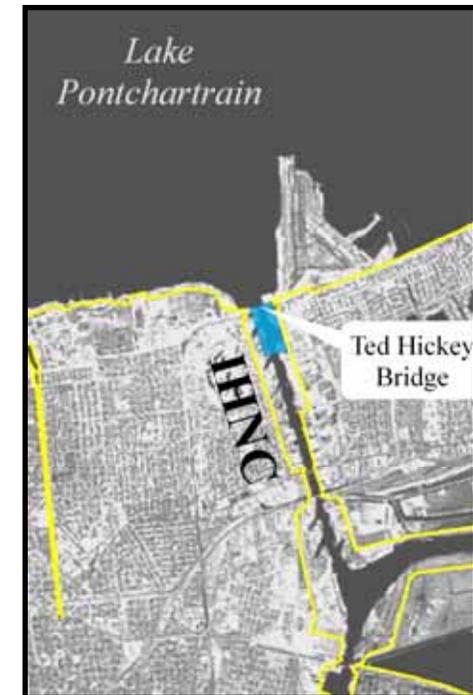
Where we've been

- Selected “Storm Surge Protection Structures” alternative to protect from Lake Borgne surge and Lake Pontchartrain surge
- Selected “Pontchartrain 2” and “Borgne 1” location ranges

Borgne 1



Pontchartrain 2





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IER #11 Tier 2: Where we're going

Two Tier 2 IERs

- **IER #11 Tier 2 Borgne:**

Alignment and design alternatives within “Borgne 1”

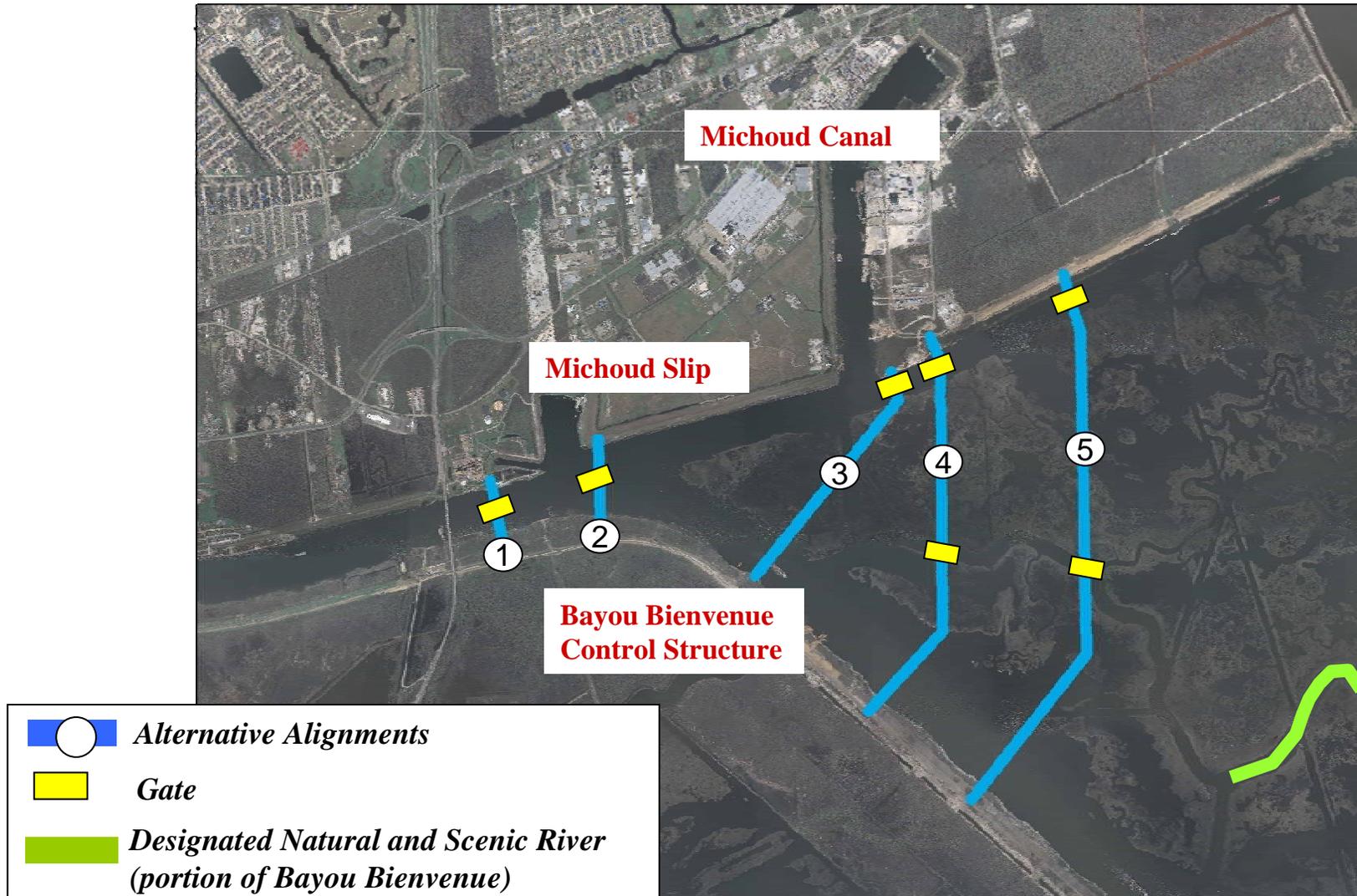
- **IER #11 Tier 2 Pontchartrain:**

Alignment and design alternatives within “Pontchartrain 2”
(alternatives to be developed this summer)



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IER #11 Tier 2 Borgne Alternative Alignments Overview

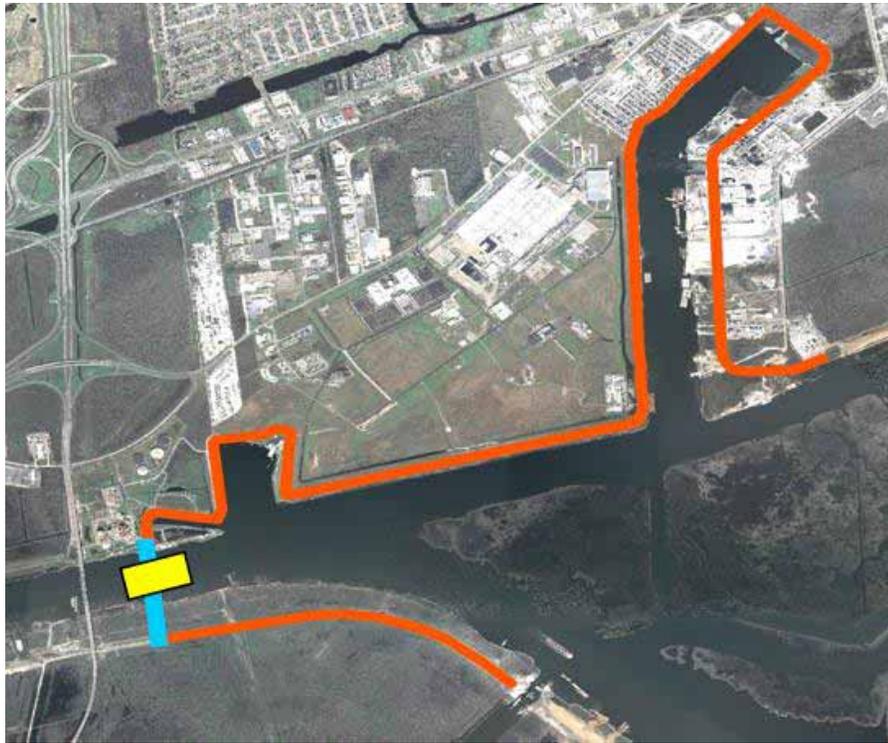




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IER #11 Tier 2 Borgne Alternative Alignments

Alignment 1



Alignment 2



Levees & Floodwalls to be Raised



Alternative Alignments



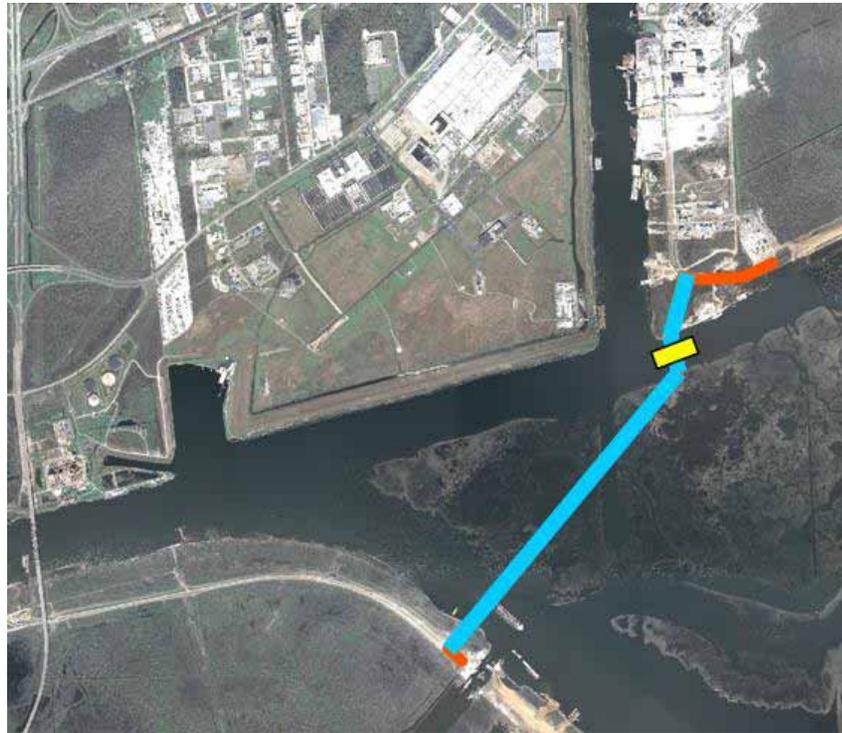
Gate



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IER #11 Tier 2 Borgne Alternative Alignments

Alignment 3



Alignment 4 & 5



- | | |
|---|----------------------------------|
|  | Levees & Floodwalls to be Raised |
|  | Alternative Alignments |
|  | Gate |



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Project Feature Alternatives

Gate

(GIWW gate on all alternative alignments; Bayou Bienvenue gate on alternative alignments 4 & 5)

- A. Vertical lift gate**
- B. Sector gate**
- C. Concrete barge gate**

MRGO Closure structure pending de-authorization
(applicable to alternative alignments 3, 4 & 5)

- A. Earthen closure**
- B. Sheet pile cells**
- C. Structural walls**



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Project Feature Alternatives

Barrier

(applicable to alternative alignments 3,4 & 5)

A-1. Traditional levee

A-2. Traditional levee with flow structures

B-1. Geotextile levee

B-2. Geotextile levee with flow structures

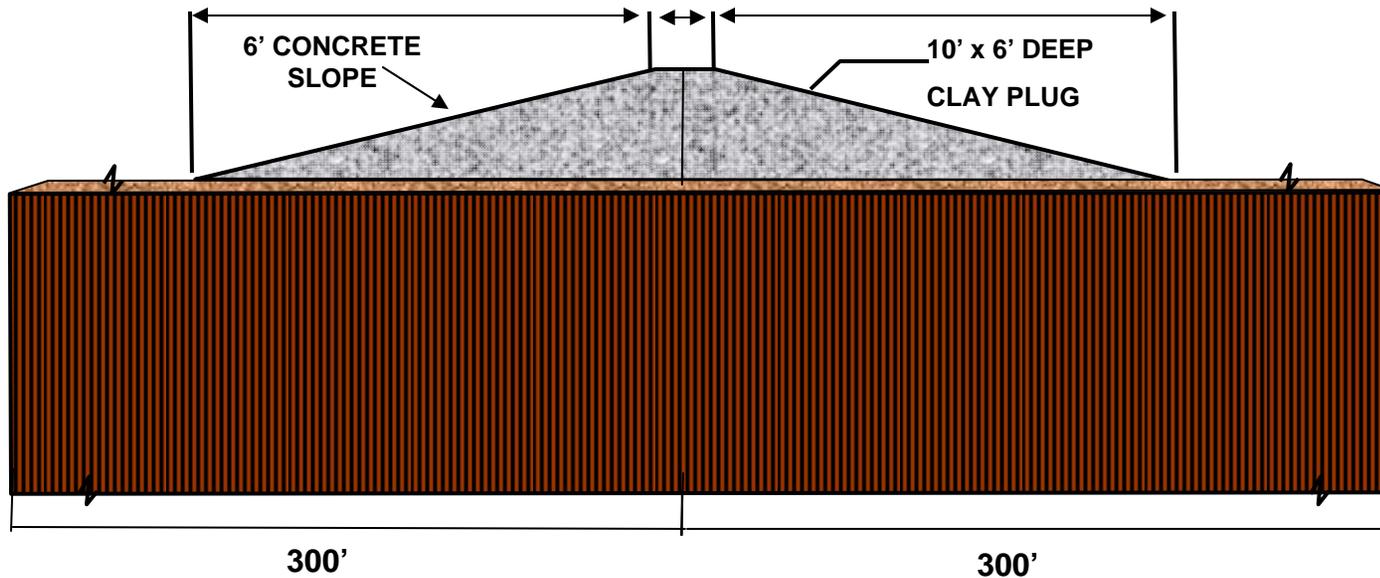
C-1. Structural wall

C-2. Structural wall with flow structures



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IER #11 Tier 2 Borgne Alternatives Geotextile levee



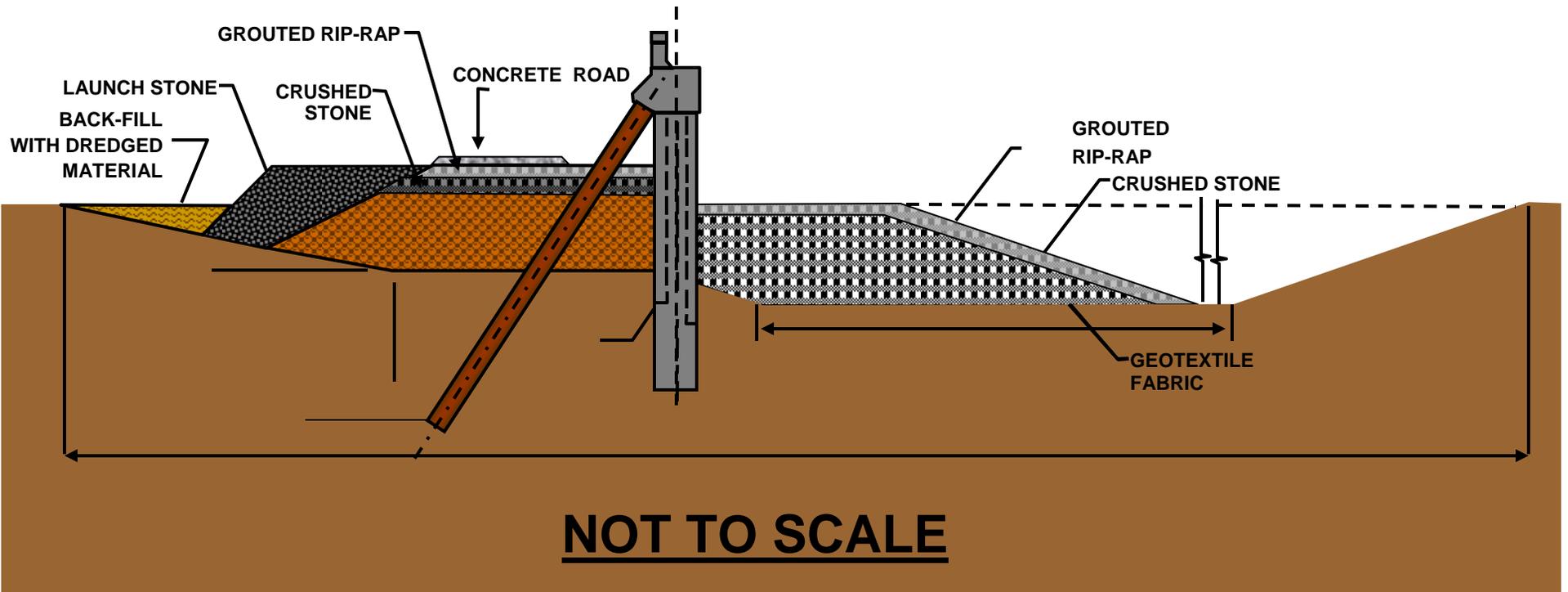
NOT TO SCALE



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IER #11 Tier 2 Borgne Alternatives

Structural Wall Across Marsh





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Vertical Lift Gate



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Bayou Bienvenue Flood Control Structure





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Investigated Borrow-Site – System Wide





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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

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

Gib Owen
PM-RS
P.O. Box 60267
New Orleans, LA 70160-0267
Telephone: 504-862-1337

[E-mail: mynenvironmental@usace.army.mil](mailto:mynenvironmental@usace.army.mil)



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NEW ORLEANS, LOUISIANA
Environmental Compliance Data Bank
www.nolaenvironmental.gov

PROJECT: www.nolaenvironmental.gov
LIBRARY
DATA VIEWER
GET INVOLVED
RELATED LINKS

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. [Learn more...](#)

Announcements

- The Decision Record for [IER 23](#) has been signed by the District Commander ([News Release](#))
- [IER 1 Draft Public Comment](#) Period 4/29 - 5/29
- [IER 15 Draft Public Comment](#) Period 4/28 - 5/28
- The Decision Record for [IER 11](#) has been signed by the District Commander ([News Release](#))
- The Decision Records for [IER 18](#) and [IER 19](#) have been signed by the District Commander

FEATURED PROJECT



USACE-MVN Emergency Alternative Arrangements
**Greater New Orleans
Hurricane and Storm Damage
Risk Reduction System Projects**

Upcoming

- [05/13/2008 - Public Meeting - \(IERs 4 11 Tier 2\)](#)
- [05/15/2008 - Public Meeting \(IERs 15 16 17 & Borrow\)](#)

[More...](#)

Newly Available

- [News Release 9 May 08 Public Meeting IERs 15 16 17](#)
- [News Release 8 May 08 Public Meeting IERs 4 11 Tier 2](#)

[More...](#)