





An aerial photograph showing a large-scale infrastructure project in a coastal region. A long, multi-lane bridge spans across a wide, winding waterway. The bridge has several tall, rectangular piers supporting its structure. The surrounding landscape is a mix of green marshland and blue water. In the foreground, there are several buildings, including a large white structure that appears to be a warehouse or a processing plant, and a parking lot filled with vehicles. The sky is clear and blue, and the overall scene is captured from a high angle, providing a comprehensive view of the project's context.

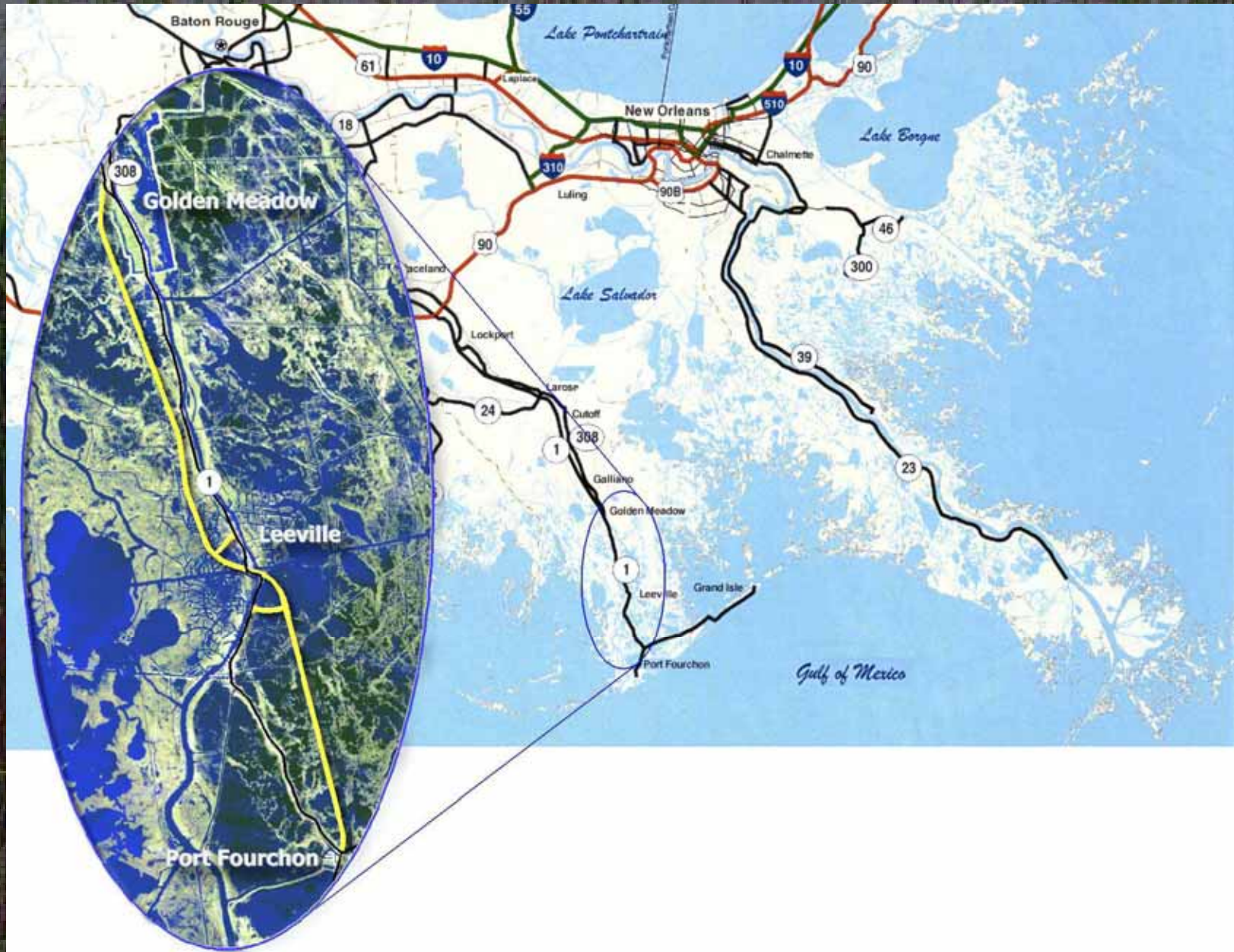
**LA 1 Bridge Project –
A Context Sensitive Design**

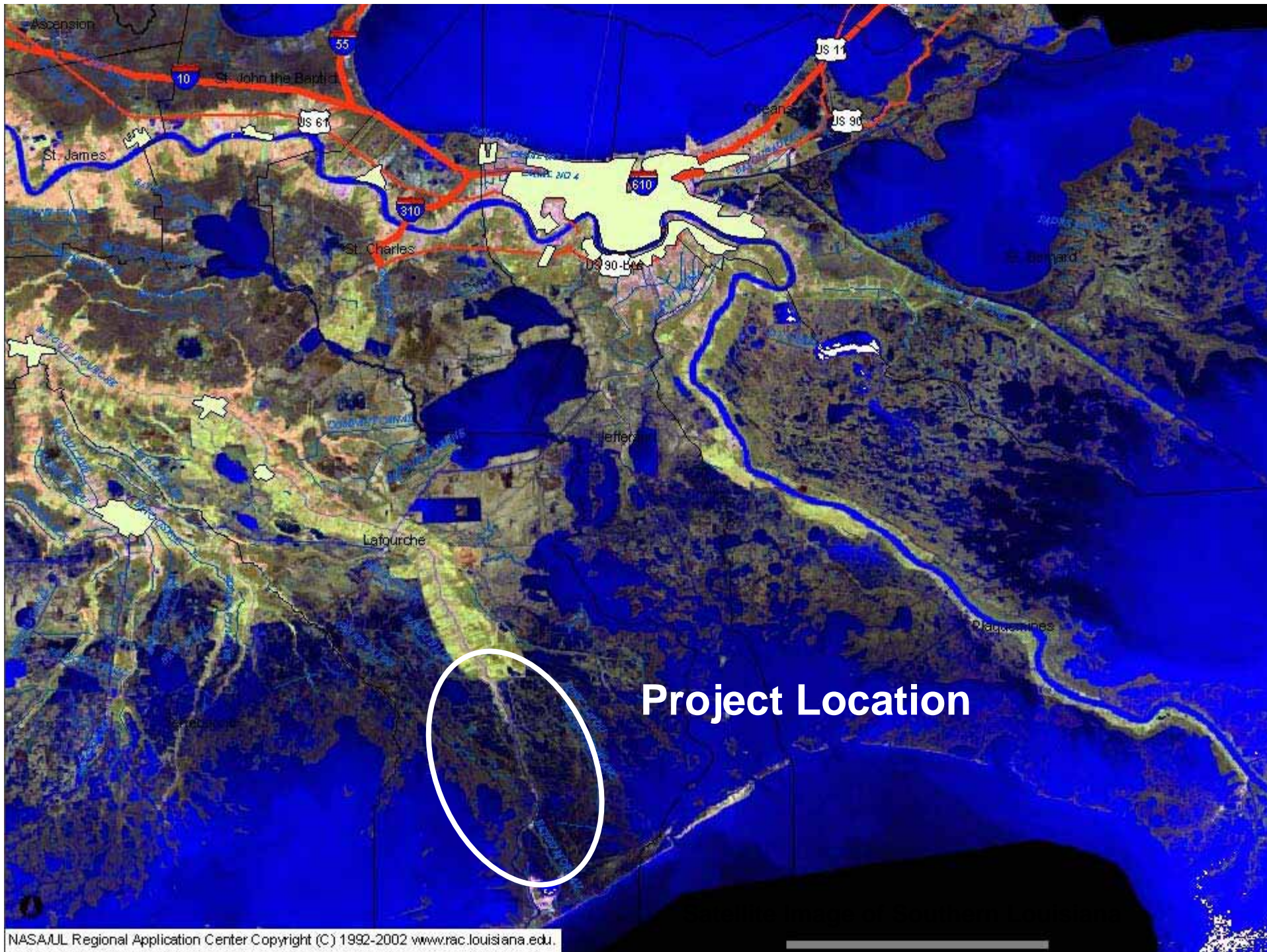


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ARCHITECTS

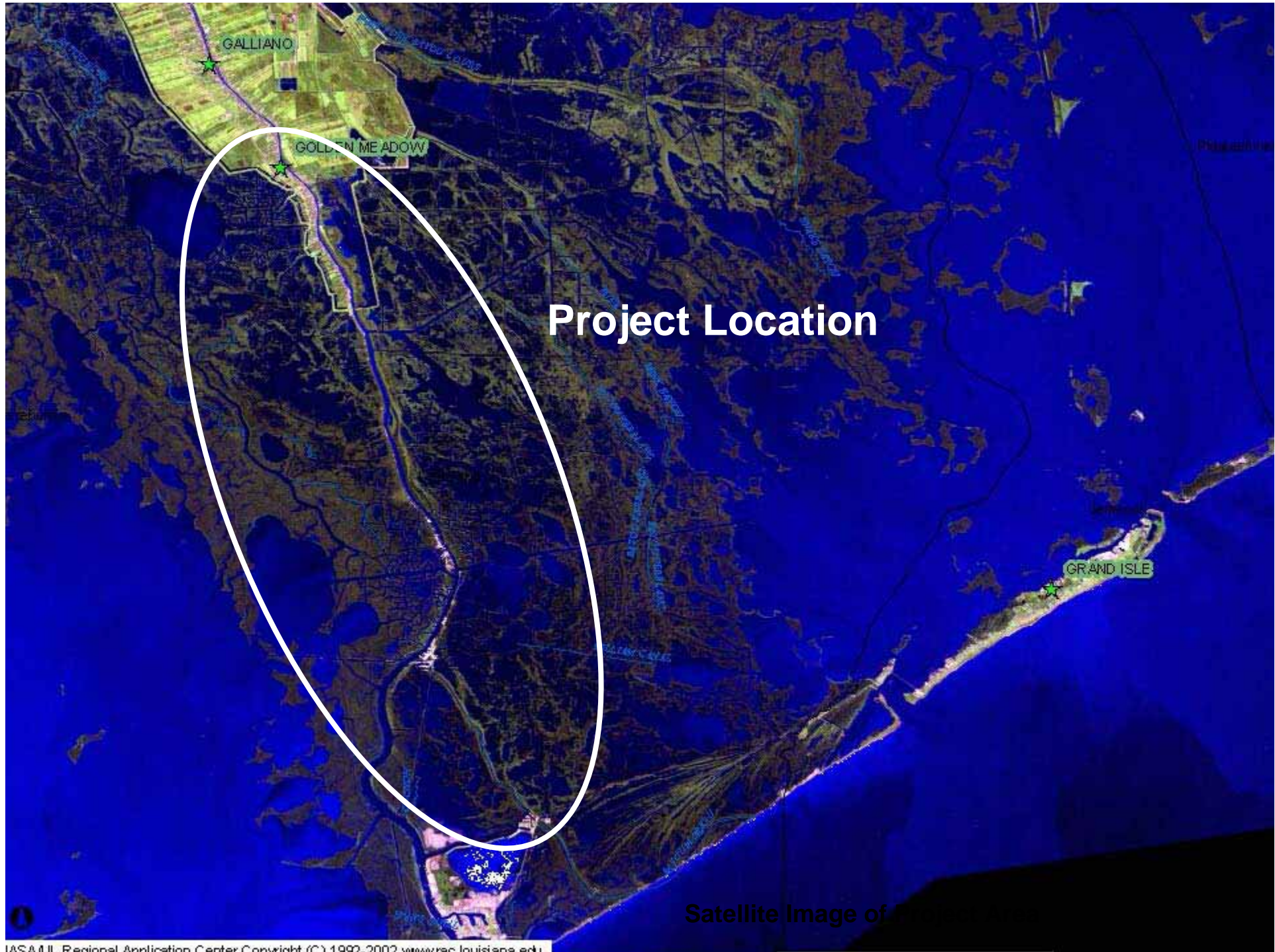
Conceptual Rendering of New Bridge

Project Location





Project Location



Project Overview

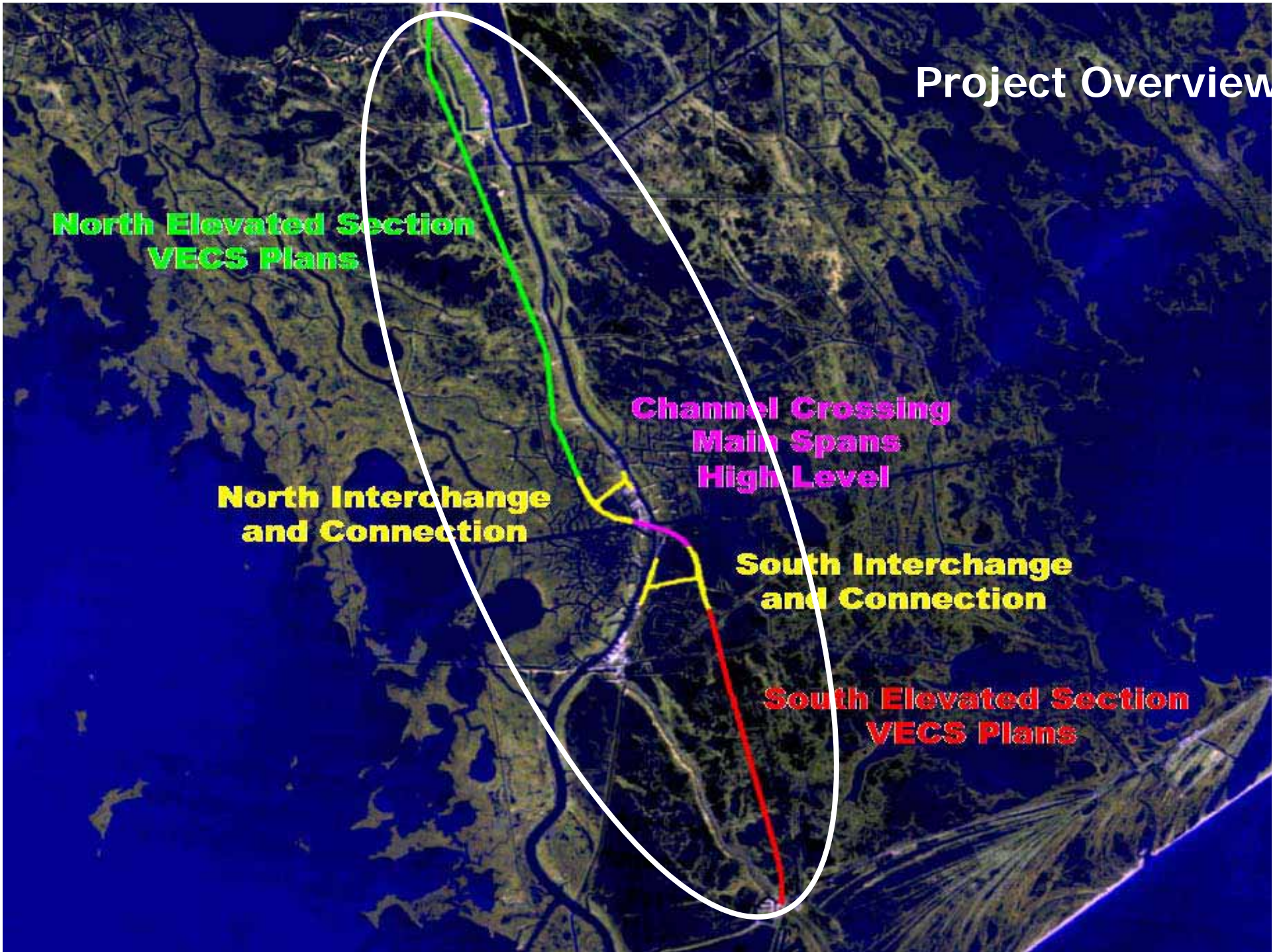
**North Elevated Section
VECS Plans**

**North Interchange
and Connection**

**Channel Crossing
Main Spans
High Level**

**South Interchange
and Connection**

**South Elevated Section
VECS Plans**



Project Overview

**North Elevated Section
VECS Plans**

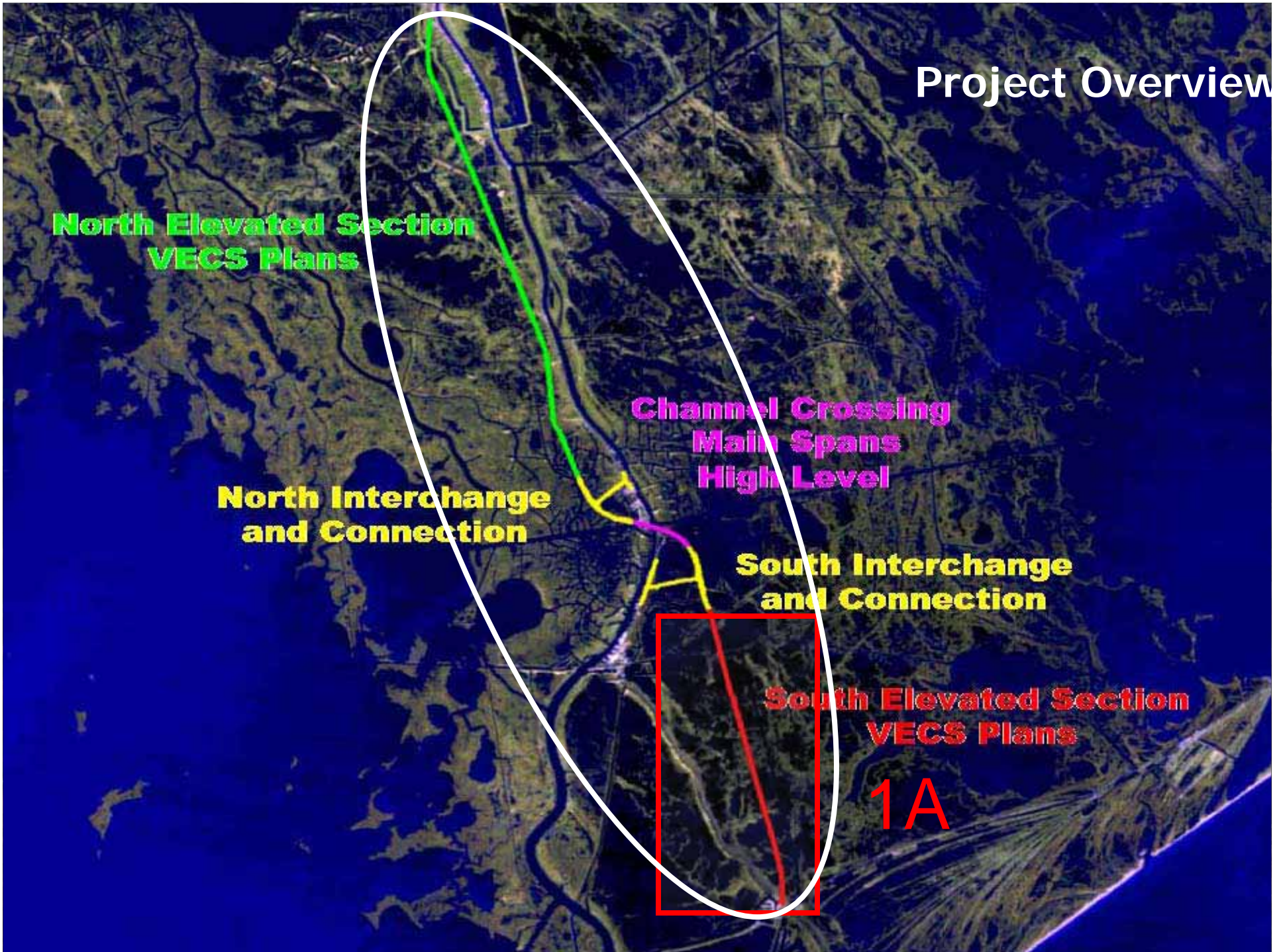
**North Interchange
and Connection**

**Channel Crossing
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High Level**

**South Interchange
and Connection**

**South Elevated Section
VECS Plans**

1A



Project Overview

**North Elevated Section
VECS Plans**

**Channel Crossing
Main Spans
High Level**

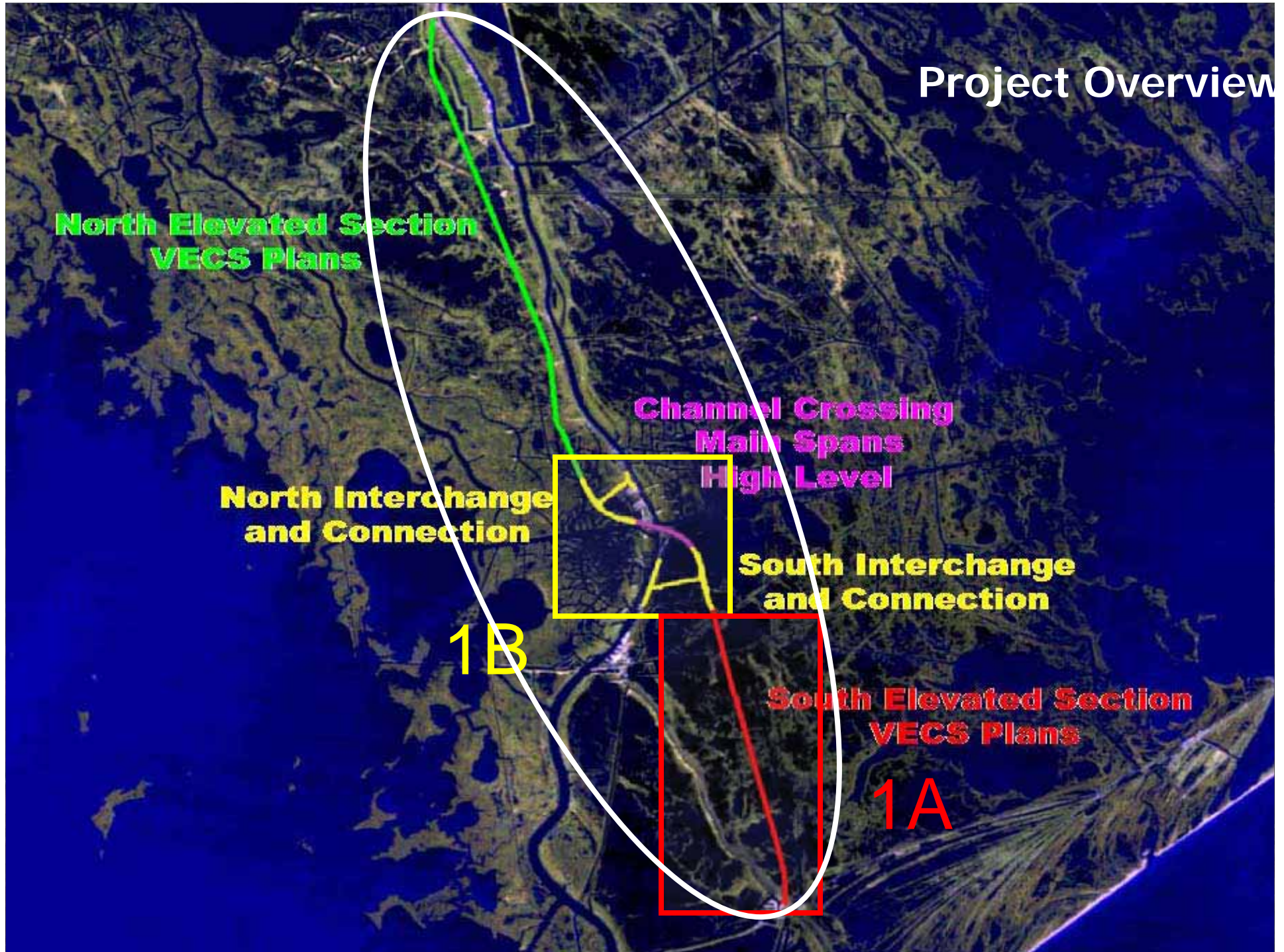
**North Interchange
and Connection**

**South Interchange
and Connection**

1B

**South Elevated Section
VECS Plans**

1A



Project Overview

**North Elevated Section
VECS Plans**

**North Interchange
and Connection**

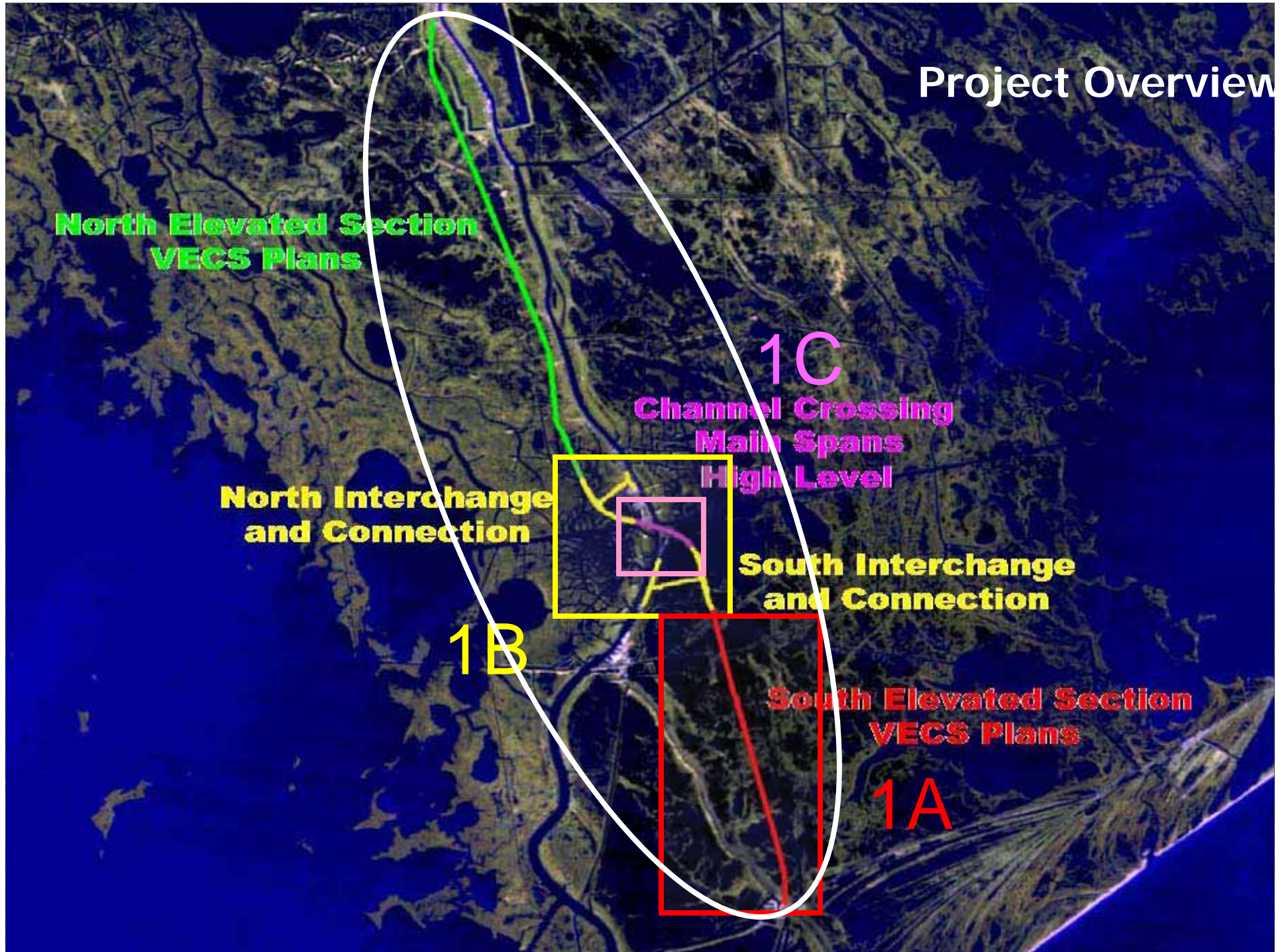
**1C
Channel Crossing
Main Spans
High Level**

**South Interchange
and Connection**

1B

**South Elevated Section
VECS Plans**

1A



Project Overview

Phase 2

**North Elevated Section
VECS Plans**

**North Interchange
and Connection**

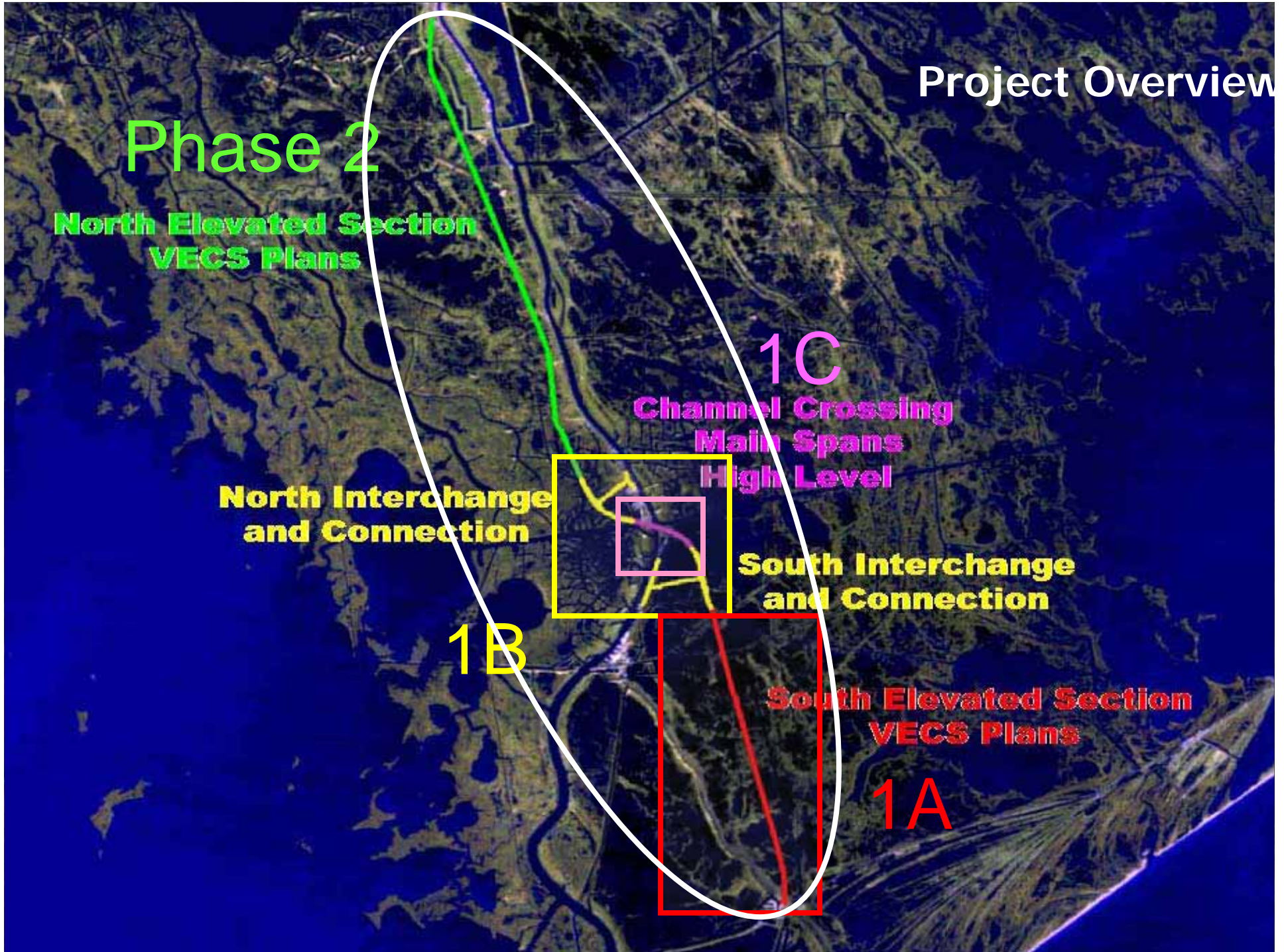
**1C
Channel Crossing
Main Spans
High Level**

**South Interchange
and Connection**

1B

**South Elevated Section
VECS Plans**

1A

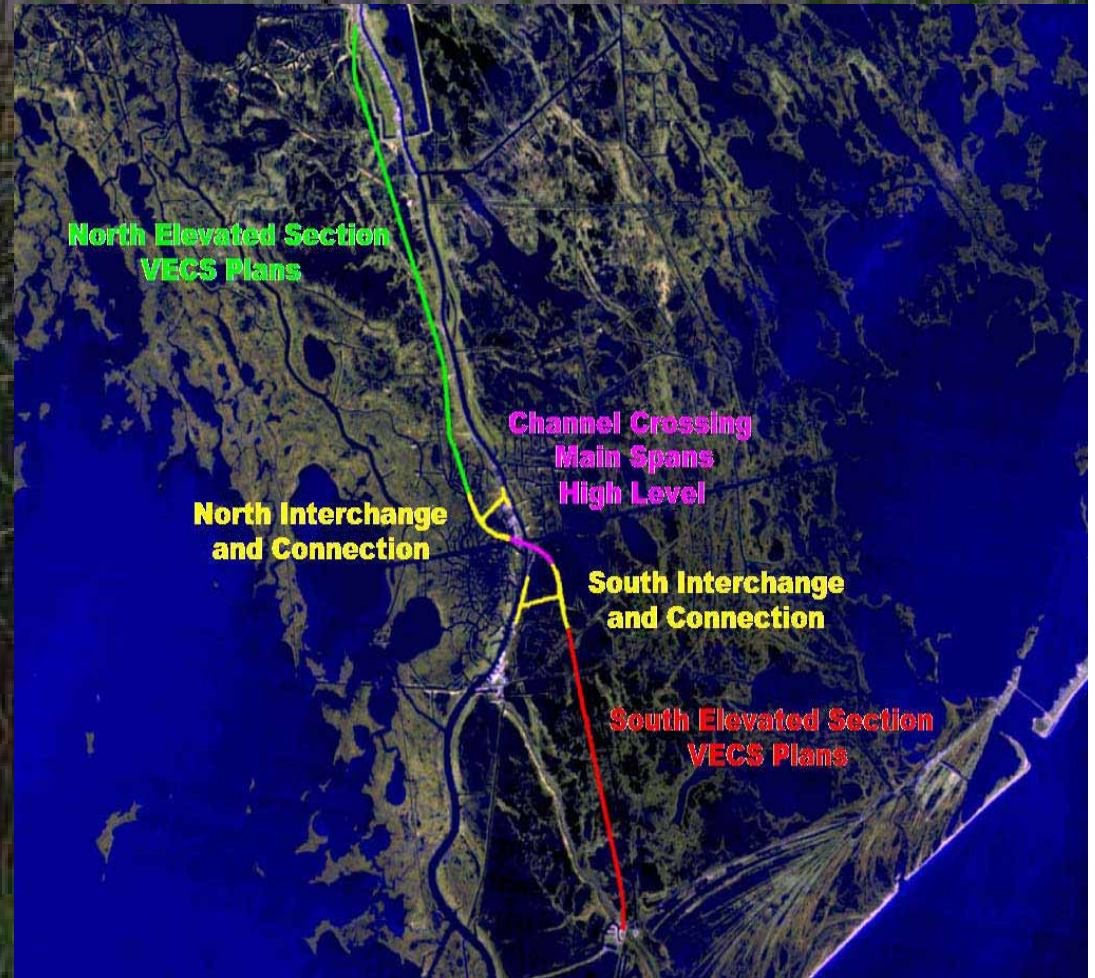


Project Overview

Entire LA 1 Project

The entire La 1 project includes the following:

- Future project is four lanes of elevated structure (like I-310) from Golden Meadow through Leeville to Port Fourchon. (Shown in green, yellow, purple, red)
- This includes
 - Twin high level fixed structures crossing Bayou Lafourche. (Shown in purple)
 - North and South connectors. (Shown in yellow)
 - One full interchange at North Connector and the main line.
- Toll Plazas at Golden Meadow and the North Connector.
- The length of the entire of the new project is 16 miles. Current project construction is called Phase 1, which is broken into phases – 1A, 1B, 1C



Context Sensitive Design (CSD)

- Is the art of creating public works projects that meet the needs of the users, the neighboring communities, and the environment.
- It integrates projects into their context or setting in a sensitive manner
 - through careful planning,
 - through consideration of different perspectives, and
 - by tailoring designs to particular project circumstances.

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How ?

- CSD must use a collaborative, interdisciplinary approach
- It must include early involvement of key stakeholders
 - to ensure that the transportation project is not only “moving safely and efficiently,”
 - but to ensure it is also in harmony with the natural, social, economic, and cultural environment.

Collaborative, interdisciplinary team

- Bridge engineers and Safety specialists
- Environmental Permitting
- Construction permitting
- Cultural resources surveyors
- Natural environment stakeholders (agencies)
- Property Owners
- Navigational Community
- Traffic Users
 - Grand Isle
 - Trucking industry
 - Port of Fourchon
- Security and law enforcement agencies
- Toll agencies

CSD - A “new” approach

- CSD requires
 - an early and continuous commitment to public involvement,
 - flexibility in exploring new solutions, and
 - an openness to new ideas.
- Community members play an important role in identifying local and regional problems and solutions that may better meet and balance the needs of all stakeholders.
- Early public involvement can help reduce expensive and time-consuming rework later on and thus contributes to more efficient project development.

Six key principles guide CSD:

1. Balance safety, mobility, community, and environmental goals in the project
2. Involve the public and affected agencies early and continuously.
3. Use an interdisciplinary team tailored to project needs.
4. Address all modes of travel.
5. Apply flexibility inherent in design standards.
6. Incorporate aesthetics as an integral part of good design.

Involve the public and affected agencies early and continuously



Involve the public and affected agencies early and continuously



Involve the public and affected agencies early and continuously



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LA 1 Coalition

a non-profit corporation working to improve a critical U.S. energy corridor

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Project Updates:

Groundbreaking Ceremony Kicks Off Bridge Construction

Contracts Awarded for Segments 1B and 1C of LA 1 Project

"One to One" newsletter - Winter/Spring 2006

Hot Links:


 **Hurricane Updates**

LA 1 Project status reports also available at la1project.com

Port Fourchon in South Louisiana has played an ever-increasing role in foreign and domestic oil supply. In fact, when you consider deepwater drilling (1,000 feet and deeper) and its proximity to this nation's only offshore oil port, this tiny dot on the map in Lafourche Parish influences production and distribution of up to 18 percent of this nation's entire oil and gas supply. And the only road connecting busy Port Fourchon to the rest of Louisiana and the nation is a fragile two-lane highway called LA Highway 1.

- Every day, nearly 1,000 big trucks travel down a 30-mile section of the substandard two-lane highway, making it twice as deadly as similar highways.
- Without LA 1, access for equipment and support personnel for the hundreds of platforms producing 16 to 18 percent of this nation's oil and gas would be severely hampered.
- A federal study projects an 80 percent increase in truck traffic on this section of LA 1 over the next decade, further straining the highway and its accessibility.
- If LA 1 were to be rendered in-serviceable due to high water, even for just a few days, this nation's energy supply would be crippled.

Vicinity Map



The facts are clear: The United States must maintain critical infrastructure that supports domestic energy production. A national energy policy must address primary routes like LA Highway 1 or we will experience an energy crisis of disastrous proportions.

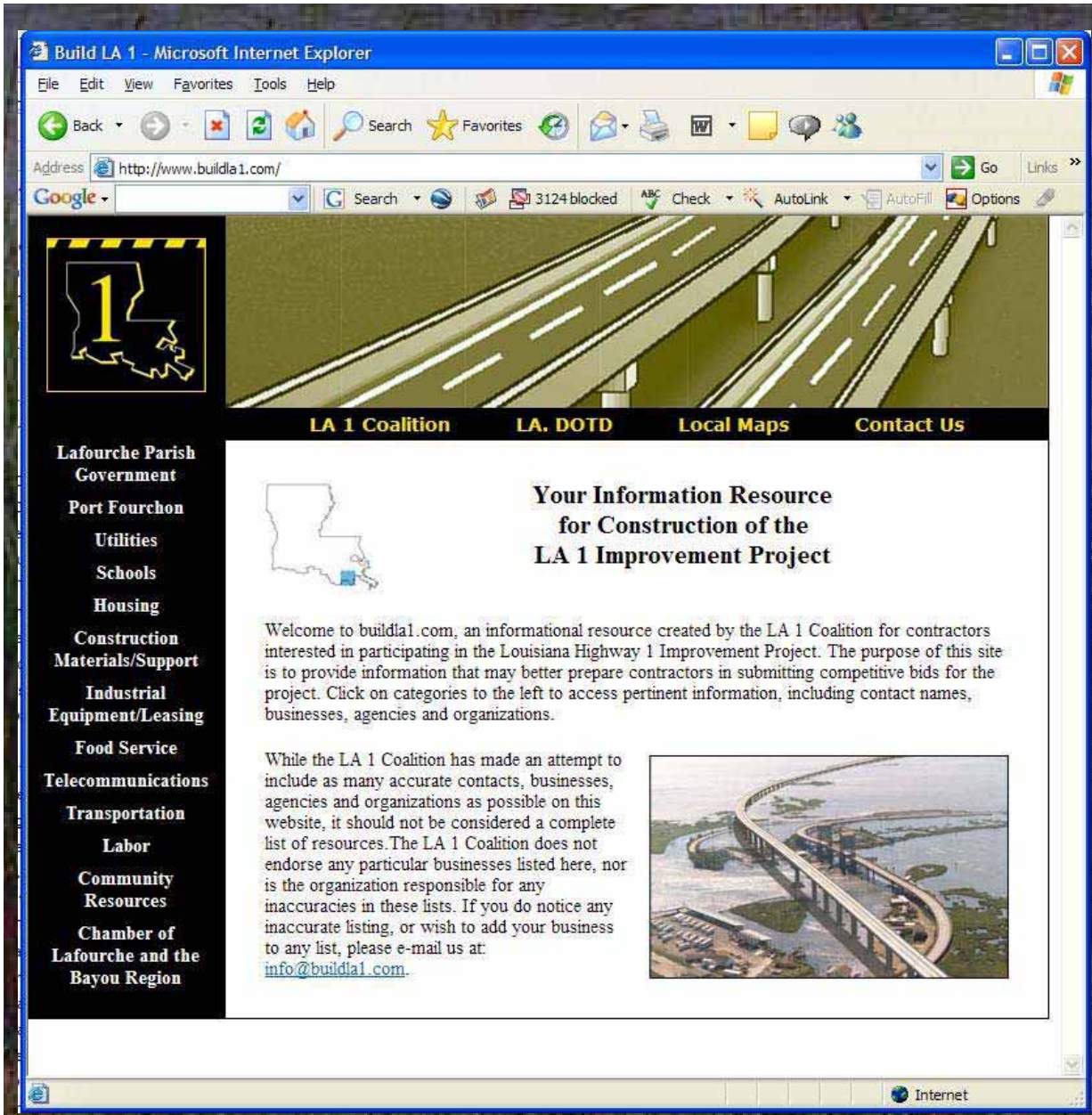
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WILBUR SMITH ASSOCIATES
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LA 1 Improvements



LOUISIANA'S ON THE MOVE
DOTD
BUILDS THE WAY

A project by the Louisiana Department of Transportation and Development

Home

Project Overview


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Proposed new bridge crossing at Leeville, before existing bridge is removed.

The Louisiana Department of Transportation and Development (LADOTD) plans to replace a major portion of existing LA 1 highway near Leeville, Louisiana, with a lengthy, 17 mile bridge. This area of our state's sensitive wetlands has been featured nationally as being the victim of coastal erosion and ground subsidence, and the existing LA 1 highway is literally sinking. Each year, tropical storms pose more of a threat to LA 1, which now often floods in low-level storms and strands our coastal residents, tourists and the oil industry workers who use our Port Fourchon as a primary access to Gulf operations.

This project will replace our sinking highway by constructing one of the longest bridges in Louisiana and possibly the longest bridge in the Americas except the nearby Pontchartrain Bridge in New Orleans, generally regarded as the world's longest bridge. The project will be built in phases as funding permits, with the most critical sections of the project (the southernmost) built first. The project's design is underway and construction is imminent.




Floods are destroying the LA1 highway.

LA 1 highway and our proposed replacement bridge is, in every way, a lifeline to the Louisiana coast. Our web site is designed to tell the story of this project, from its innovative design and permitting to its progress.

NEWS: October 18th, 2004

**LA1 Project Receives
AASHTO's President's
Environmental Award**



www.La1project.com

Public Interaction through web pages

Internet

start 2006 Tulane LA 1 Microsoft PowerPoi... LA 1 Project - Mic... LA 1 Coalition - Mic... Build LA 1 - Micros... Paint Shop Pro - [L... 11:43 PM

Use an interdisciplinary team
tailored to project needs



Use an interdisciplinary team
tailored to project needs



Use an interdisciplinary team
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Address all modes of travel



Address all modes of travel



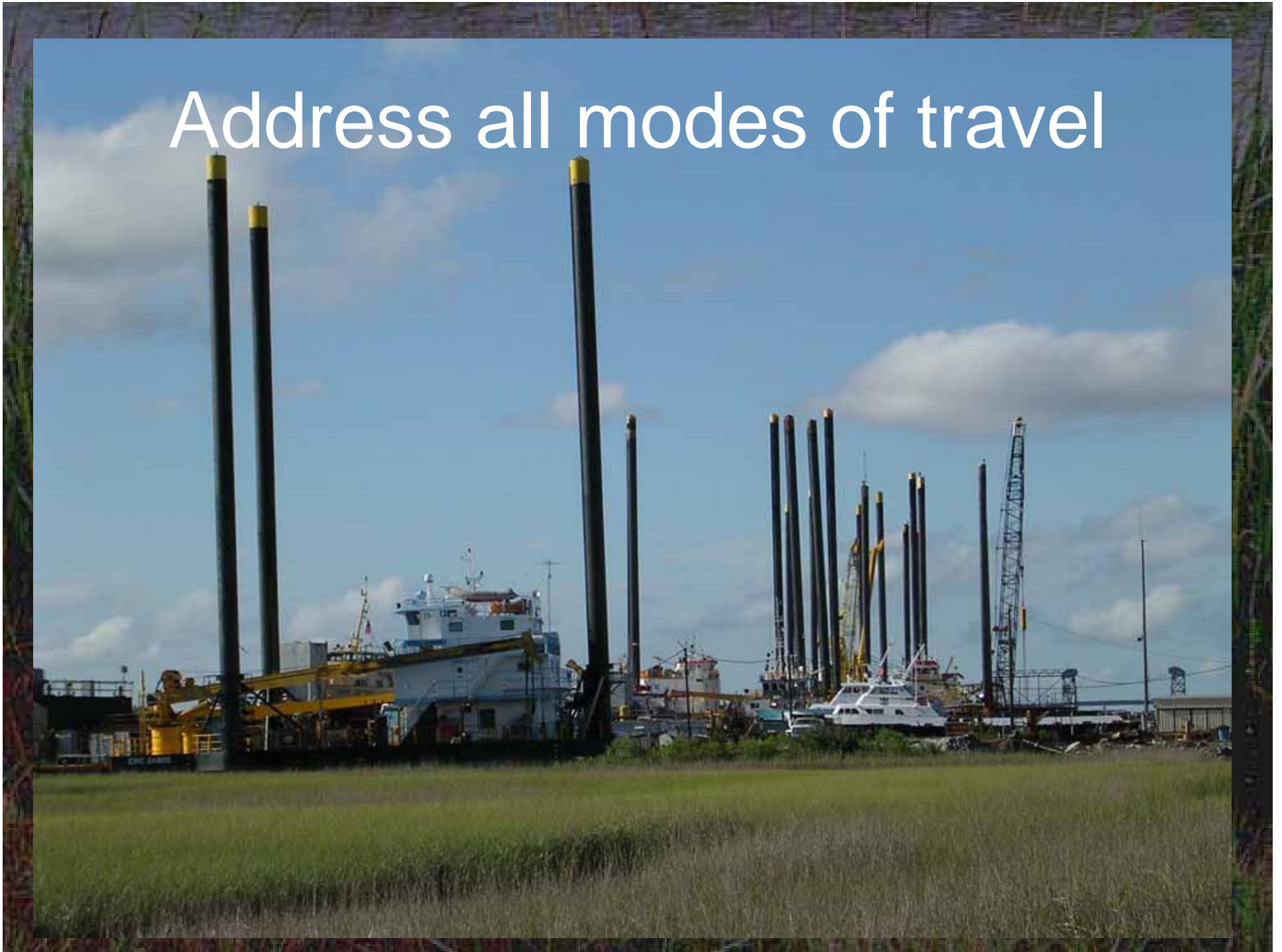
Address all modes of travel



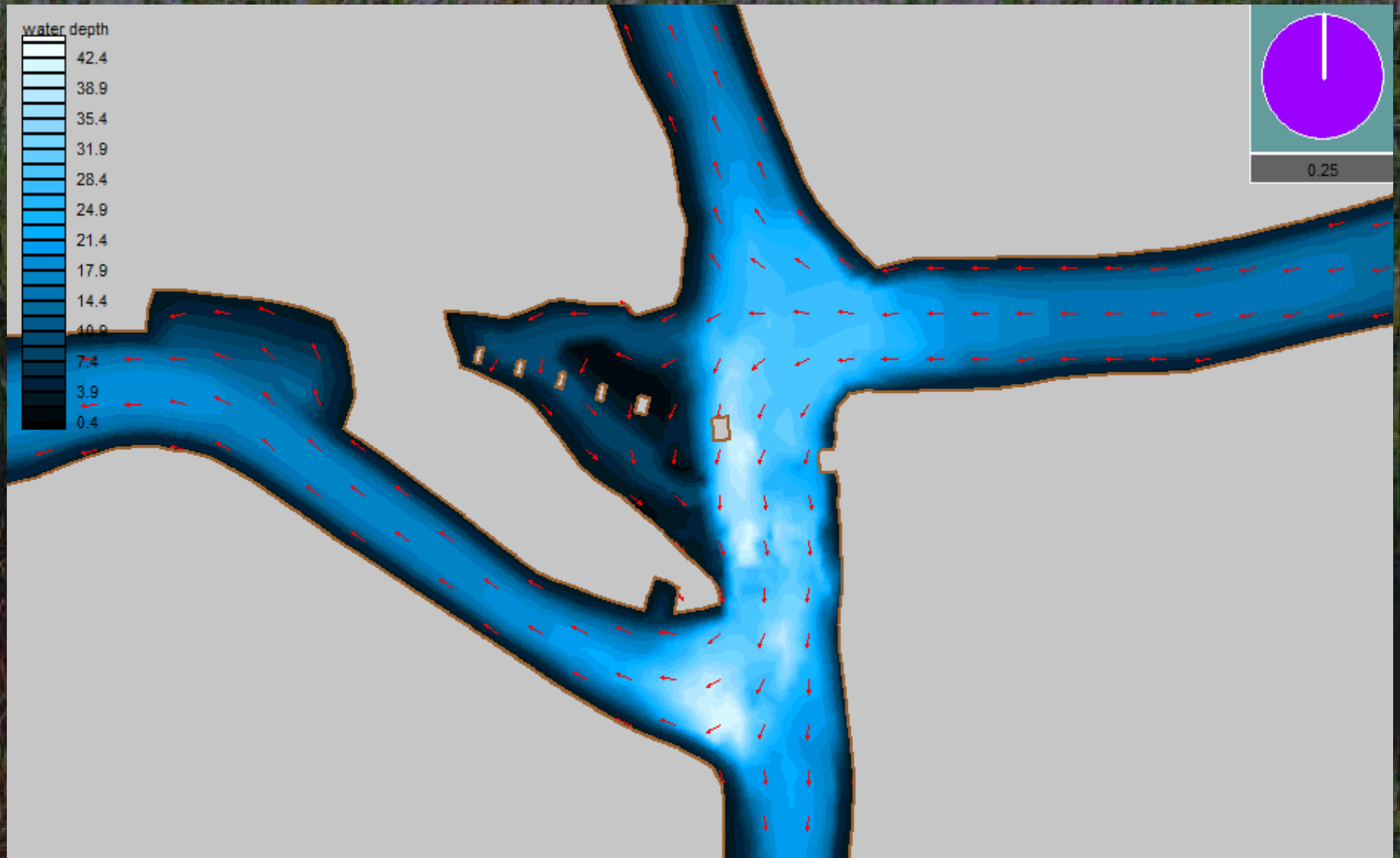
Address all modes of travel



Address all modes of travel



Address all modes of travel



Apply flexibility inherent in design standards



Apply flexibility
inherent in design
standards

1905
LEEVILLE CEMETERY
On June 8, 1905, during the yellow fever
epidemic, three Leeville residents:
Joseph C. Picciola, Camille Rebstock
and Adrien Lefort
purchased this plot of land from the Martin
Family for the Leeville Cemetery Co. for \$95.
It became a large cemetery, but with each
hurricane, graves were demolished and washed
away. On September 2, 1905
Joseph C. Picciola
died of yellow fever and was buried where
his tomb still stands.



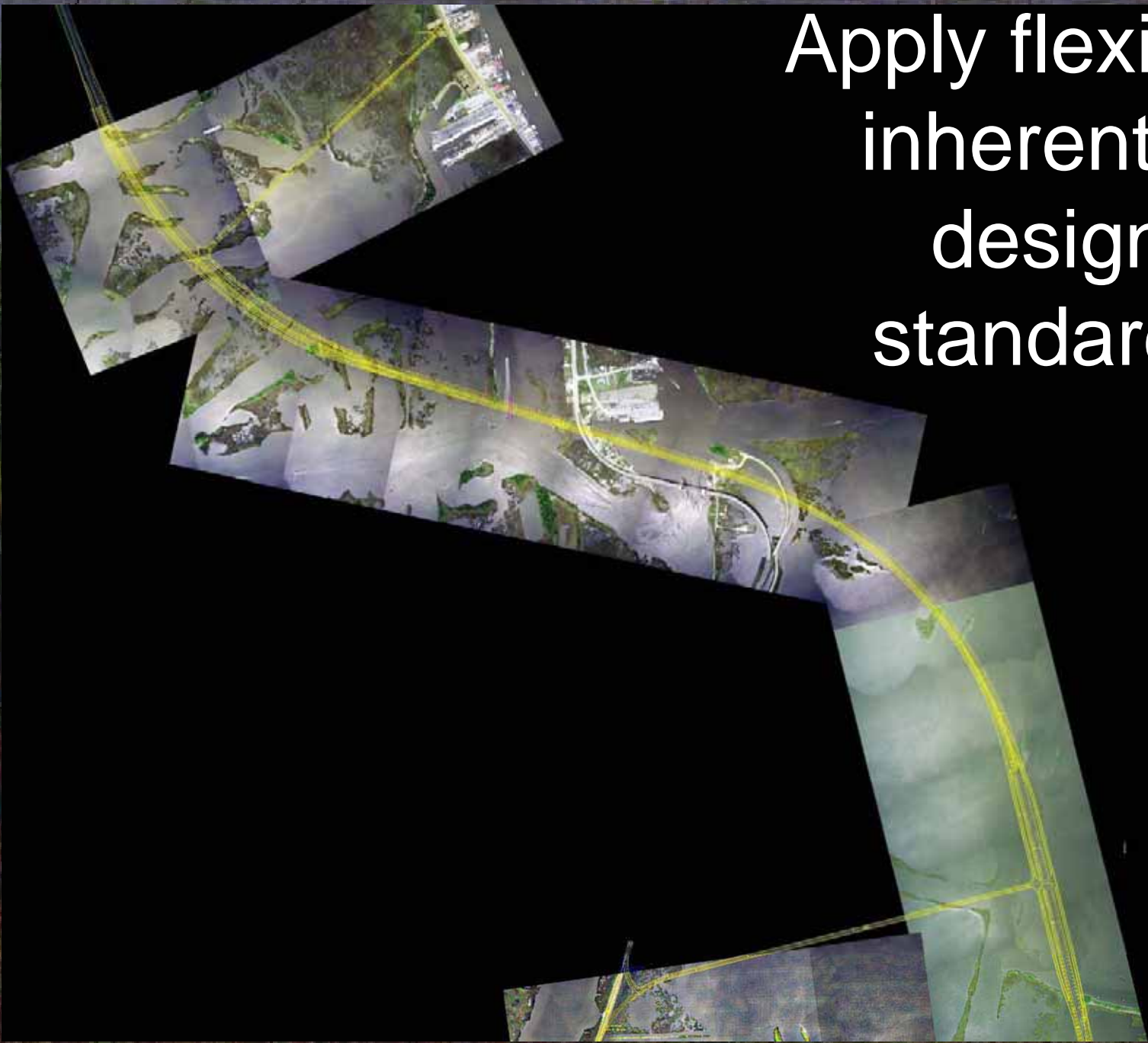
Apply flexibility inherent in design standards





Apply flexibility inherent in design standards

Apply flexibility
inherent in
design
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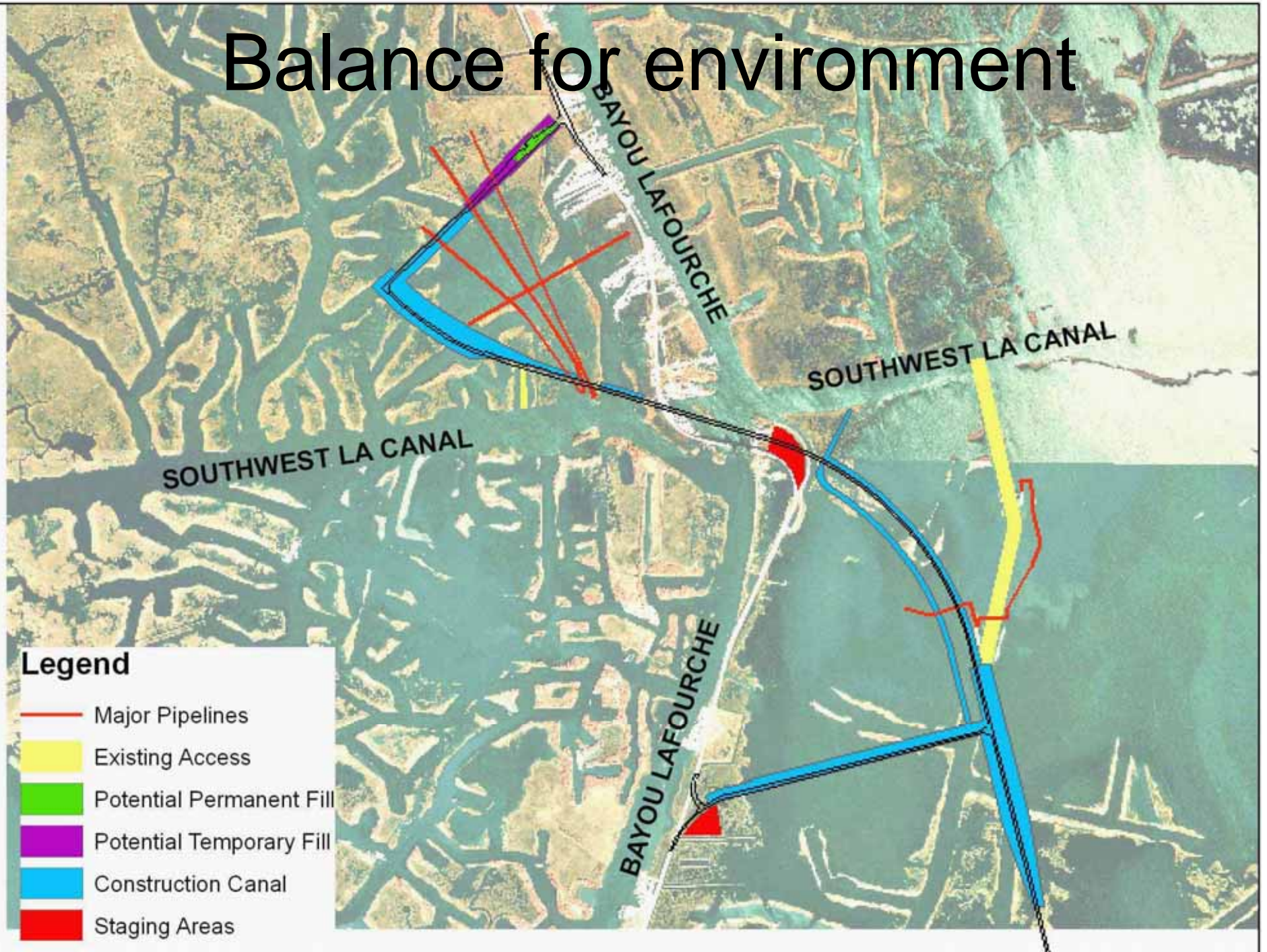
Balance safety, mobility,
community, and environmental
goals in the project

Legend

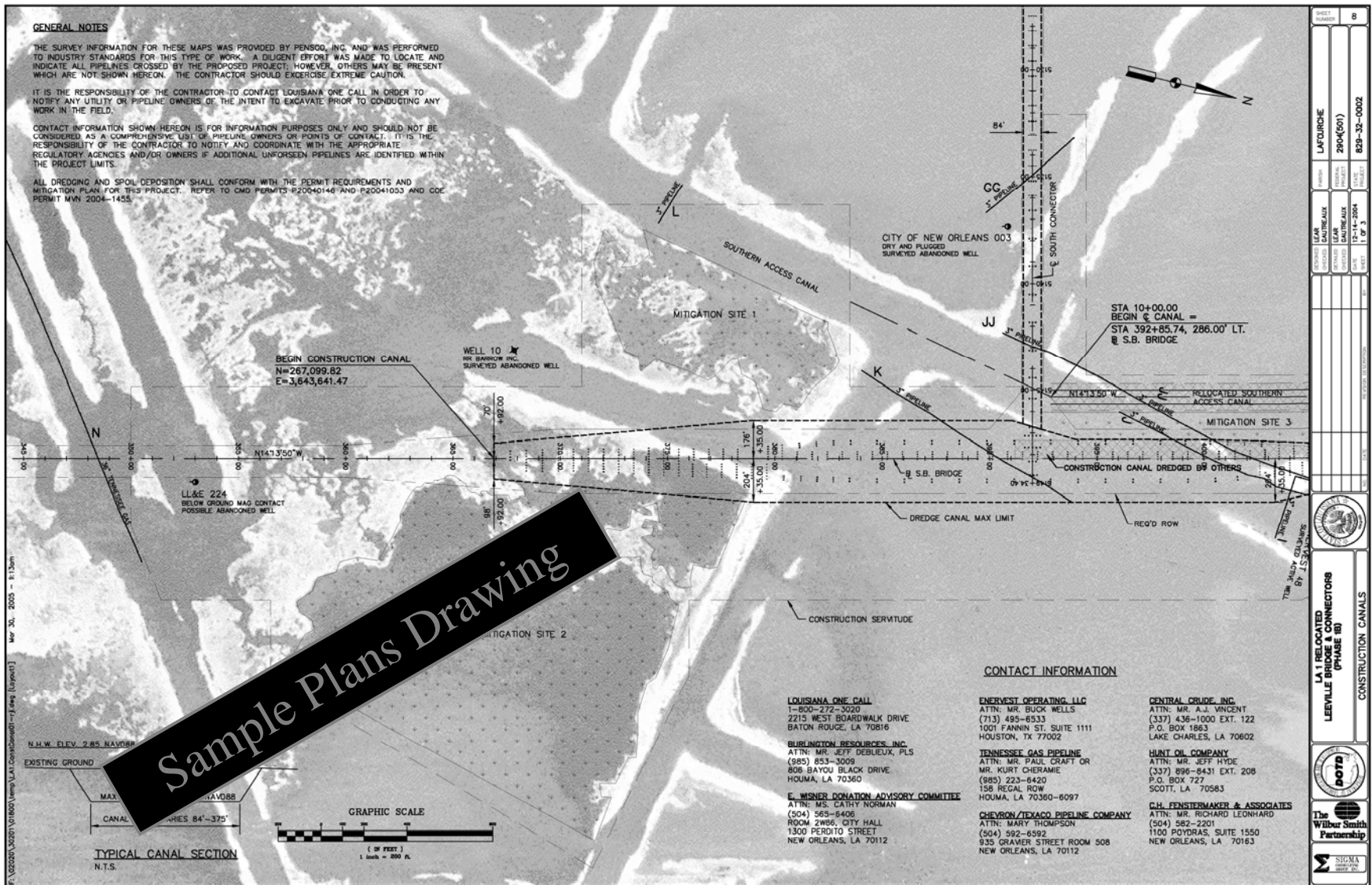
- Major Pipelines
- Existing Access
- Potential Permanent Fill
- Potential Temporary Fill
- Construction Canal
- Staging Areas



Balance for environment

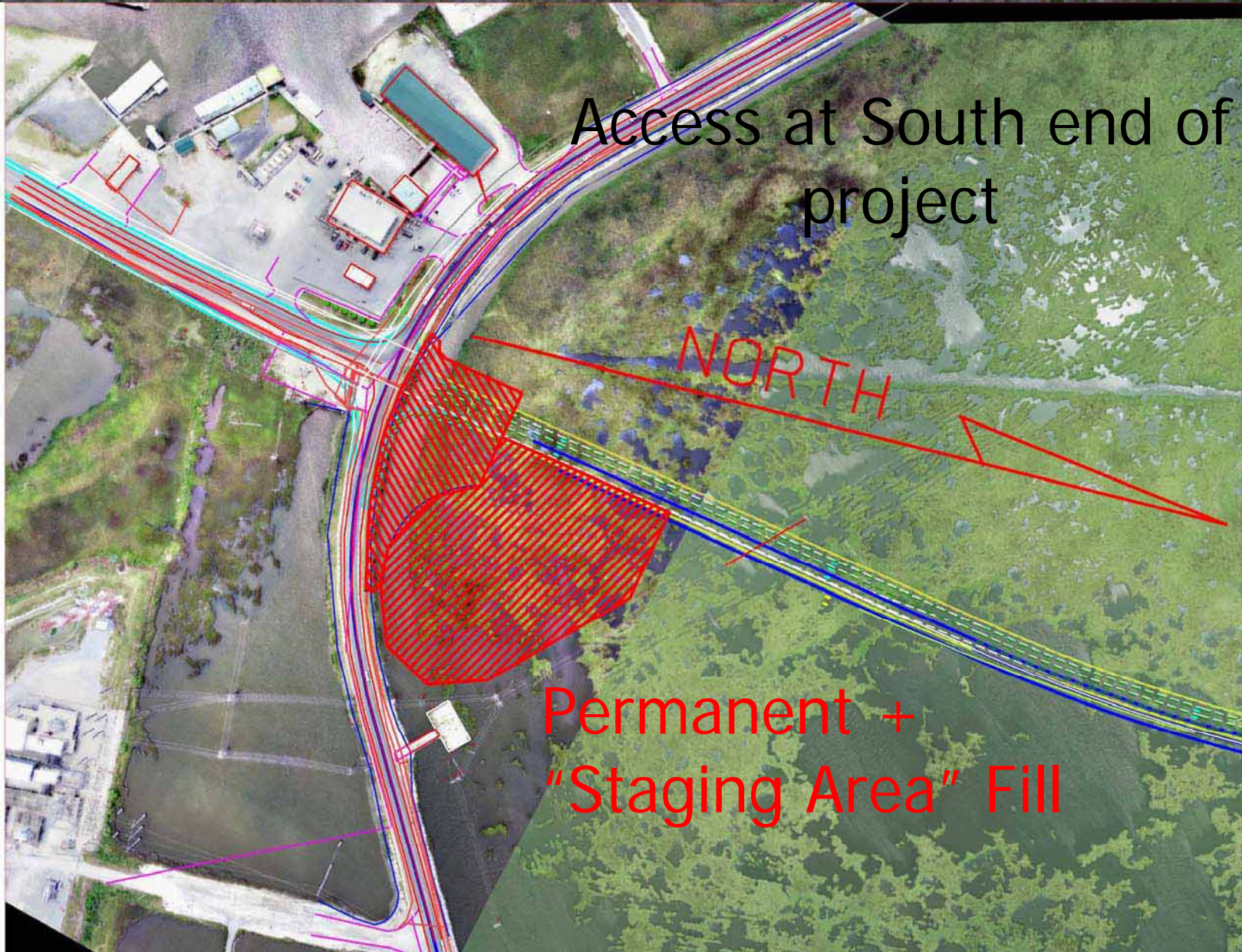


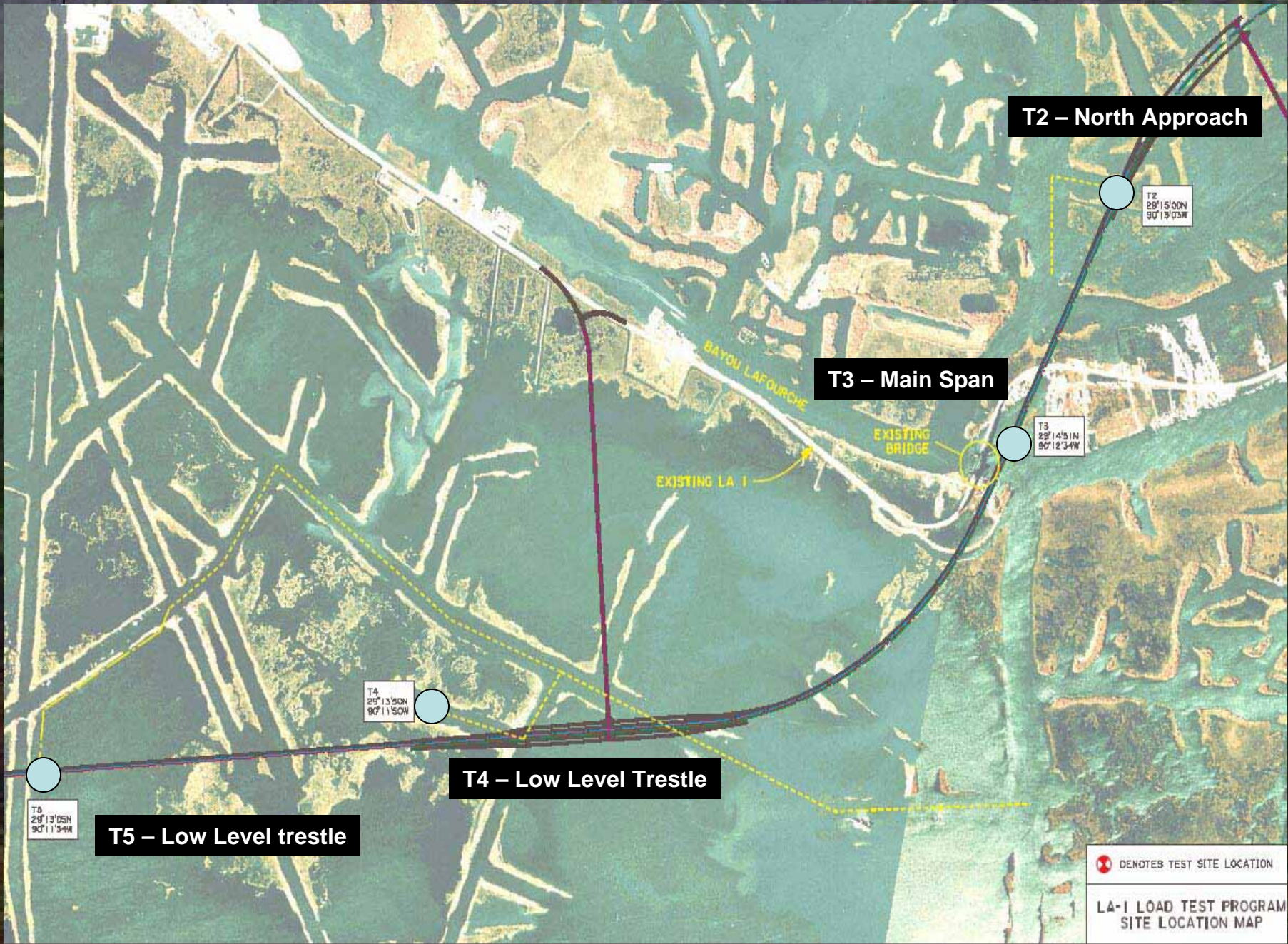
Balance for community / environment through mitigation sites



Sample Plans Drawing

Balance for safety and environment







Balance community, and environment

Test Pile Canal Dredge Spoils used for Marsh Creation



Earlier geophysical work used non-intrusive over-marsh equipment only



Balance community, and environment

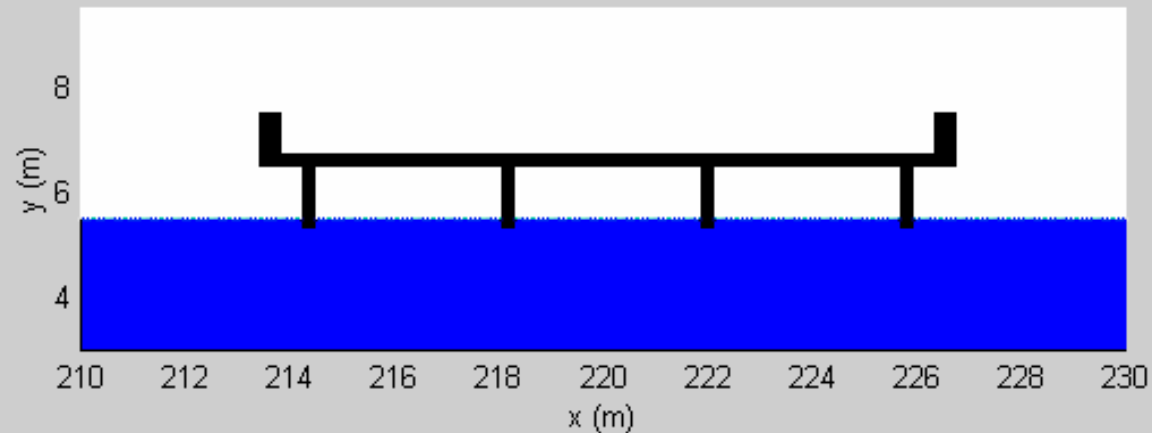
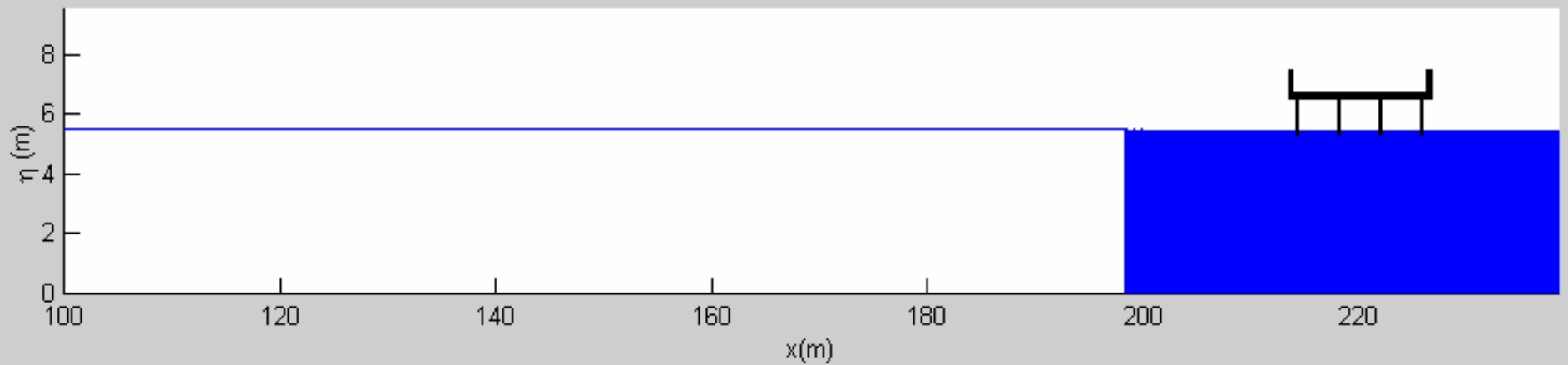
CPT's from floating air boats



Balance community, and environment

Top Down Construction Permitted (1A)





Balance for safety and community –
design for all natural hazards

LA 1 Bridge Project – A DOTD Context Sensitive Design





**LA 1 Bridge
Project –
A DOTD Context
Sensitive Design**

