

Greater New Orleans Hurricane & Storm Damage Risk Reduction System

Eastern Tie-In

Hwy 23 Crossing

Invisible Floodwall

T. Carr

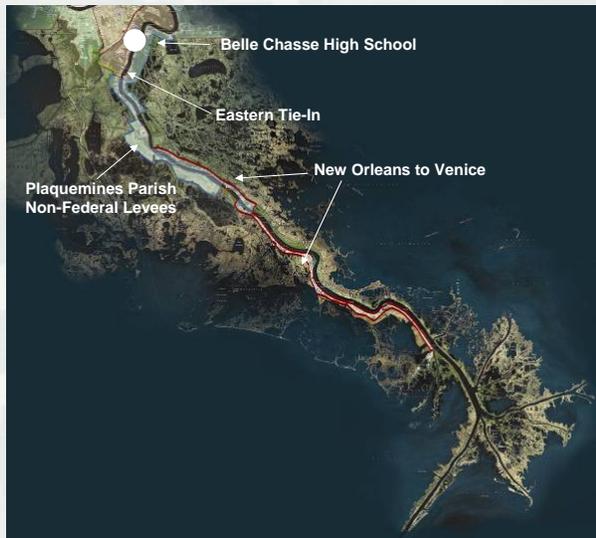
Public Workshop
Sept. 19, 2009
Belle Chasse High School



US Army Corps of Engineers
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Plaquemines Parish Risk Reduction



Three distinct but connected projects reduce risk for residences and businesses in Plaquemines Parish



Eastern Tie – Project Orientation

IER 13: Hero to Oakville
Proposed Action Alignment

Proposed Floodgate Location



3

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Background

- Corps projects must be environmentally compliant
- Eastern Tie-In is an integral piece of the hurricane system
- Original Corps proposed action was a swing gate to cross Highway 23
- Individual Environmental Report 13, the Eastern Tie-In project document, was released for public review Apr. 3, 2009
- Public input led to refine designs to minimize visual impacts



4

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Hwy 23 Crossing Refinements

- Four alternatives under consideration:
 - Roller gate
 - Swing Gate
 - Ramp
 - Invisible Floodwall
- This session: Invisible Floodwall



5

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Invisible Floodwall



Based on public feedback, the Corps further developed the concept of constructing an Invisible Floodwall in spring 2009.

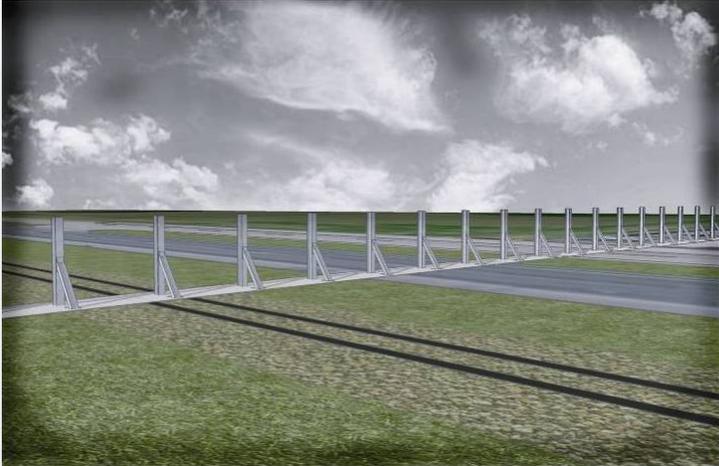


6

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Invisible Floodwall

Kicker Columns and Piles

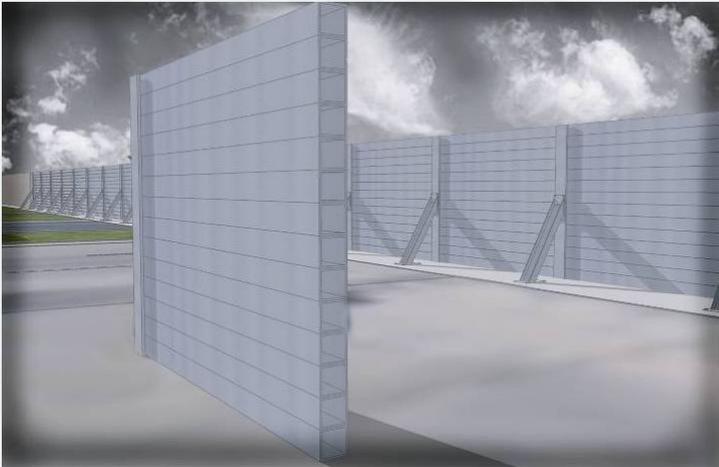


In advance of a storm event 9 ft tall 170 lbs aluminum columns, 75 lb kicker piles, and industrial aluminum tubes would be assembled to prevent storm surge from reaching the Belle Chasse sub-basin



Invisible Flood Wall

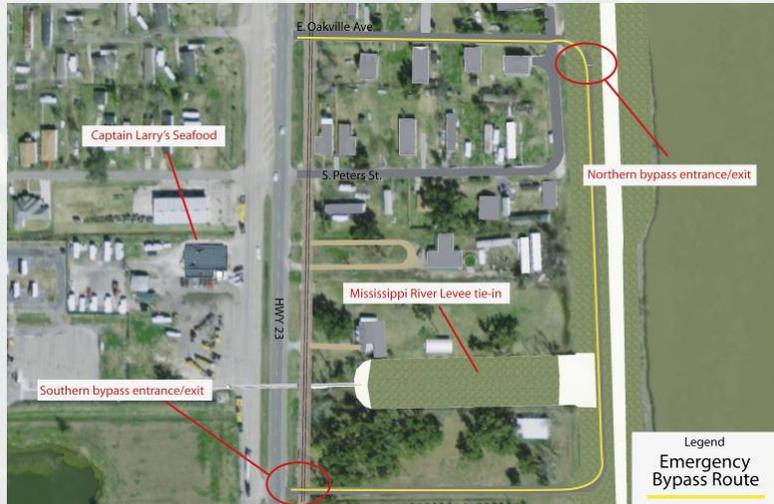
Aluminum Tubes



The Invisible Floodwall alternative would include about 400 industrial-aluminum tubes about 12 ft wide by 8 inches tall and weighing 215 lbs.



Emergency Bypass



An Emergency Bypass road would be constructed at the project site no matter which option to cross highway 23 is selected.



Storage Shed and Assembly Equipment



Pieces to assemble the Invisible Floodwall would be stored in a building near the project site.



Closed Floodwall

Southbound View



Due to the amount of time needed to construct the floodwall, it would require the most lead time of any option and the earliest evacuation.



11

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Other Uses of Invisible Floodwall



East Grand Forks, MN



Europe



12

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Invisible Floodwall Flyover



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Questions and Comments



14

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