



WBV-14e.2 Levee Lift Prior to Armoring

Marrero, LA

PROJECT START

August 2017

PROJECT FINISH

May 2018

KEY PERSONNEL INVOLVED

Andrew Woodroof, P.E.
Frank Liang, P.E., PTOE
Victoria Malley, EI
Norman Bordes

PROJECT OWNER

SE LA Flood Protection Authority West
7001 River Road
Marrero, LA 70072

OWNER REFERENCE

John Monzon, P.E., Regional Director
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DE FEE

\$216,000

CONSTRUCTION

\$3,457,000

DE, as prime consultant, provided construction administration and resident inspection services for this project.

The WBV-14e.2 Levee Lift Prior to Armoring Project was designed to lift approximately 14,000 linear feet of hurricane protection levee on the west bank of Jefferson Parish from Lafitte-Larose Highway to the Estelle Drainage Pump Station. Following completion of the levee lift, the US Army Corps of Engineers began armoring of the protected side of the levee to protect against scour from overtopping during storm surge events. The levee was lifted approximately 2.75 feet over the length of the project.

Inclement weather proved to be a significant challenge throughout the project. Over the 9 months during which this project was in construction, there were 143 rain days which caused significant delays. January, February, August, October, and December each had 20 or more days of rain, making it difficult for the contractor to complete the job on time. In terms of Construction Administration and Resident Inspection, this put strain on Digital Engineering's contract as a limited budget was available for inspection for a project that stretched much longer than anticipated. By maintaining an excellent line of communication with the SLFPA-W and the contractor, and by utilizing our team of local inspectors, DE was able to inspect the project through completion within the budget allotted.

Another challenge on the WBV-14e.2 project was ongoing coordination and verification of results between the Quality Control Testing Laboratory for the contractor and Quality Assurance Testing Laboratory for DE. Upon obtaining the initial set of reference Proctor results, DE immediately found discrepancies between the QC and QA laboratory results. Through communication between the two laboratories DE coordinated geotechnical testing through the remainder of the project, ensuring that the two laboratories were obtaining results using similar protocols under similar conditions. After resolving the initial discrepancies, testing remained consistent through the remainder of the project and the final project testing log was accepted by the US Army Corps of Engineers with no comments.