



American Concrete Institute
LOUISIANA CHAPTER

EXCELLENCE IN CONCRETE CONSTRUCTION AWARDS

2015 Awards Competition

Seawall Erosion Control Paving Project – Reach 1B

New Orleans, LA



Submitted by:

Design Engineering, Inc.

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The Excellence in Concrete Construction Awards Entry Form 2014

Please choose the category for your project

Flatwork

Project Information

Name of Project

Seawall Erosion Control Paving Project - Reach

Address

Lakeshore Drive

Country

United States

City

New Orleans

State

LA

Postal Code

70124

Project Size (Dimensions, Area, Span)

Reach 1B has a length of 3,700 feet and an ave

Concrete Quantity - Volume Area Tonnage

4,008 Cu. Yds.;16,489 Sq. Yds.; 8296 Tons

Construction Work Duration

320 Calendar Days

Date of Project Completion

Overall Project Description (Maximum of 300 words)

This project involved stabilizing an 83 year old concrete seawall and preventing erosion by constructing a pile-supported concrete plaza slab with safety lights, concrete bollards, drainage, and landscaping between the seawall and the roadway along Lake Pontchartrain in New Orleans. The heavily traveled roadway was closed during storm events because of overtopping, erosion, and associated debris. The debris would often cover all four lanes of the roadway and would sometimes require daily cleanup.

The project was designed to stabilize the seawall (which is the first hurricane frontal protection for New Orleans), to prevent erosion and to keep this important roadway accessible. A secondary feature was to provide a recreational area to the citizens of the area.

To ensure drainage of Lakeshore Drive to Lake Pontchartrain, the system was designed to transfer water from the roadway through the seawall. This is a complex task because portions of the seawall were constructed below the lake surface in 1931. The project has a length of 3,700 feet and an average width of 45 feet. The project cost was \$6.8 million. This project represents a unique solution for front line levee protection and will be expanded to protect a total of 5.2 miles of

Concrete Description

Please include a full description of how you feel that concrete was effectively utilized in the project, for example, to meet the end user requirements of the owner, to shorten the schedule, or for sustainability. (Maximum of 500 words)

The existing concrete seawall was constructed in 1931 as the first hurricane protection project for New Orleans. It is a cast in place concrete stepped structure on pilings in monolithic sections along Lake Pontchartrain. Over 83 years, the joints have eroded, and the concrete fronting sheets had separated. The seawall settled 3 feet and the lake rose 1.5 feet. It remains the foreshore protection for the hurricane protection for the City for 5.2 miles.

Design considerations included underwater inspection of the concrete sheeting, underwater joint sealing, careful placement of sheeting behind the structure, and penetrating the seawall for new 40 inch outfalls. In addition, precast concrete bollards were designed and installed as a safety feature separating recreational and vehicular traffic. The bollards have special concrete foundations that are pile supported and bonded in place for replacement when damaged.

The concrete plaza area is elevated above the road and seawall to deflect and reflect wave action. Within the project, there is a 280 foot decorative plaza comprised of handicap-accessible, colored,

Construction Team Members

Owner

Orleans Levee District

Contact Name

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Concrete Supplier Company

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If there were any other participants that assisted with the creation/repair of the project, please provide their information in the box below.

Photographs/ Time Lapses

Please attach the minimum of four to a maximum of eight photographs of the project, along with any time lapse videos that you may have of the projects construction or repair. Please provide high resolution photos and wp4 videos if they are available.

Entry Submitted By

Name

Title

Phone Number

Email Address

Address

City

State

Zip Code

Sponsoring Chapter

Name of Chapter Contact (Name of the representative of the Sponsoring Chapter who invited the submitter to submit the entry)

Jackie Sempel, P.E.

Separate Waiver

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- Yes, I agree to the terms and conditions**
- No, I disagree with the terms and conditions**

Applicant Signature Here



