

Date: 9 August 1993
Division: South Atlantic
District: Mobile

CONTINUING AUTHORITIES PROJECT FACT SHEET

1. Project: Dauphin Island Shoreline, Alabama, CWIS 92752, Congressional District: AL - 1
2. Authority: Section 14 of the 1946 Flood Control Act, as amended: Emergency Shoreline Protection
3. Location: On the Gulf of Mexico shoreline at the Main Beach Park on Dauphin Island, Mobile County, Alabama
4. Problems and Opportunities Identified: The northward migration of Pelican Island, a small island south of Dauphin Island, has pushed northward a major tidal channel, Pelican Passage. The movement of Pelican Passage is causing massive erosion on the south shore of Dauphin Island at the Main Beach Park, administered by the Dauphin Island Park and Beach Board. This erosion has already undermined two pavilions once located on the dune crest and the gulf edge of the bath house is now over the beach. The DIPBB had to close these facilities as they now pose a serious safety hazard. The rapid erosion and consequent lowering of the bottom is placing the fishing pier at risk.
5. Alternative Plans Considered: Beach renourishment by several methods was considered and discarded because of uneconomical costs and the rapid erosion present. Relocating Pelican Passage was extremely expensive. Relocating the park structures, particularly the fishing pier, was impractical. Geotube shoreline protection was considered but discarded because it too would not halt the erosion.

RECOMMENDED PLAN

6. Description of Recommended Plan: -Provide a stone section along the beach to arrest shoreline erosion. A trapezoidal section with a 5-foot wide crest at Elevation 7 feet NGVD will begin 150 feet east of the pier centerline and extend 150 to 200 feet west of the centerline, depending on whether or not the bath house is still standing when the project is constructed. There will be a 75-foot section tapering from El 7 to 0 on each end. The trapezoidal section would be placed as far gulfward as practical to permit sand eroding from the dune to accumulate in its rear. A stone blanket 3 feet thick and 30 feet wide, 10 feet on either side of the pier bent piling, will be placed beneath the fishing pier. The blanket will begin at the toe of the shore protection and extend to the offshore end of the pier, a distance of about 770 feet. All stone will be placed on

geotextile filter fabric.

7. View of Sponsor: The Dauphin Island Park and Beach Board (DIPBB) has reviewed the form Local Cooperation Agreement (LCA) and fully supports the project. They have provided a Letter of Intent to fund the non-Federal share of project cost, subject to receipt of funds from the State of Alabama, and have indicated that they have the legal authority to act as non-Federal sponsor.

8. Views of Federal, State, and Regional Agencies: The Statement of Findings (SOF), and draft Environmental Assessment (EA) were reviewed by all appropriate Federal, state, and regional agencies. No significant adverse comments were received.

9. NED Plan: The Recommended Plan is the NED Plan.

10. Status of NEPA Document: The SOF and draft EA were coordinated with the appropriate agencies. The Finding of No Significant Impact was signed by the District Engineer on 27 July 1993.

11. Significant Effects: N/A

12. Implementation Schedule:

a. Time from project authorization to contract award: about 2 months. Bid opening is scheduled for 7 October 1993.

b. Estimated construction period: 90 days

Project: Dauphin Island Shoreline, Alabama

Table 1

ECONOMIC AND FINANCIAL DATA
RECOMMENDED PLAN

(All costs in thousands of dollars)

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Estimated Implementation Costs
(October 1993 price level)

Federal	\$360.8
Non-Federal	\$120.0
Total	\$480.0

Economic Data:
(8¼%, 25- yr. life)

Annual Charges: \$62.4
(Includes \$3.1 OM&R;
Fed OM&R = 0)
Annual Benefits: \$101.4
BCR 1.6

Non-Federal Requirements:

LERRD	0
Cash	\$120.0
Total	\$120.0

Federal Allocations to Date:

Feasibility (Sec 14)	\$ 40.0
Plans and Specifications	\$ 50.0

Remaining Federal Requirement:

Construction	\$310.0
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Total Federal Investment: \$400.0