

JULY 2002

Environmental Assessment

NORTH JETTY PERMANENT SAND- TIGHTENING AND JETTY EXTENSION

CANAVERAL HARBOR BREVARD COUNTY, FLORIDA



U.S. Army Corps
of Engineers
JACKSONVILLE
DISTRICT



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO
ATTENTION OF

FINDING OF NO SIGNIFICANT IMPACT (FONSI)
NORTH JETTY PERMANENT SAND-TIGHTENING AND JETTY EXTENSION
CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA

I have reviewed the Environmental Assessment (EA) for the proposed action. This Finding incorporates by reference all discussions and conclusions contained in the EA enclosed hereto. Based on information analyzed in the EA, reflecting pertinent information obtained from agencies having jurisdiction by law and/or special expertise, I conclude that the proposed action will not significantly impact the quality of the human environment and does not require an Environmental Impact Statement. Reasons for this conclusion are in summary:

1. The work would be conducted in accordance with the Biological Opinion issued by the U.S. Fish and Wildlife Service and the National Marine Fisheries Service. The proposed action will not jeopardize the continued existence of any threatened or endangered species or impact any designated "critical habitat."
2. In coordination with the Florida State Historic Preservation Officer, it was determined that the proposed action would not impact any sites of cultural or historical significance.
3. Certification of water quality from the state of Florida would be obtained pursuant to Section 401 of the Clean Water Act.
4. Pending completion the state's concurrence with the Coastal Zone Consistency (CZM) determination, the action is consistent with the state's CZM programs.
5. Measures to eliminate, reduce, or avoid potential impacts to fish and wildlife resources would be implemented during project construction.

3 SEPTEMBER 2002
Date

James G. May
Colonel, U.S. Army
District Engineer

**ENVIRONMENTAL ASSESSMENT
ON
NORTH JETTY PERMANENT SAND-TIGHTENING AND JETTY
EXTENSION
CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA**

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**ENVIRONMENTAL ASSESSMENT
ON
NORTH JETTY SAND-TIGHTENING AND JETTY EXTENSION
CANAVERAL HARBOR
BREVARD COUNTY, FLORIDA**

1 PROJECT PURPOSE AND NEED

1.1 PROJECT AUTHORITY

The River and Harbor Act of 2 March 1945 (Public Law 79-14) authorized the construction of the entrance channel and jetties at Canaveral Harbor. Congress authorized additional project improvements including channel maintenance and shore protection via sand bypassing through the River and Harbor Act of 23 October 1962 (Public Law 87-874).

1.2 PROJECT LOCATION

The north jetty project area is located immediately north of the entrance channel to Canaveral Harbor, Brevard County, Florida (see Figure 1, location map).

1.3 PROJECT DESCRIPTION

The U. S. Army Corps of Engineers (Corps), in partnership with the Canaveral Port Authority, are proposing to sand-tighten and elevate 940-feet of the existing north jetty using rock boulders and a geo-grid/geo-textile barrier (see Figures 2,3,4). In addition, the jetty would be extended by 300-feet using steel sheet-pile and rock armor. The extension would range from 55 to 80-feet wide along the seabed. An interim sand-tightening structure, installed in 1998, consisting of 550-feet of sand-filled geo-textile tubes would also be removed.

The placement of the rock boulders along the existing jetty would be performed by land-based equipment such as a back-hoe and front-loader or by barge. It is anticipated that the jetty extension would be constructed by using a track-mounted crane and back-hoe which would place the sheet-pile and rock armor off the end of the existing jetty. The sand in the geo-textile tubes would be graded out along the beach, which is where it originated from, and the geo-textile materials would be removed from the site and disposed of in an approved upland facility.

Construction access to the site would be by land-based equipment or by barge. Overland access would require the utilization of existing dirt roads through the Cape Canaveral Air Station. A temporary construction staging area (refer to Figure 2) for equipment and certain materials would be required in order to perform the above tasks. This area would consist of a 75-foot wide strip of beach and dune adjacent to the north jetty as well as 250-feet of beach and dune going north from the jetty and fronting the Atlantic Ocean. A temporary upland stockpile and staging area (see Figure 5) for the rock boulders would also need to be designated. As depicted, there are three possible sites up to 4.31 acres in size that could be used for this purpose. The selected area would be used to stockpile or stage an estimated

FIGURE 1: LOCATION MAP

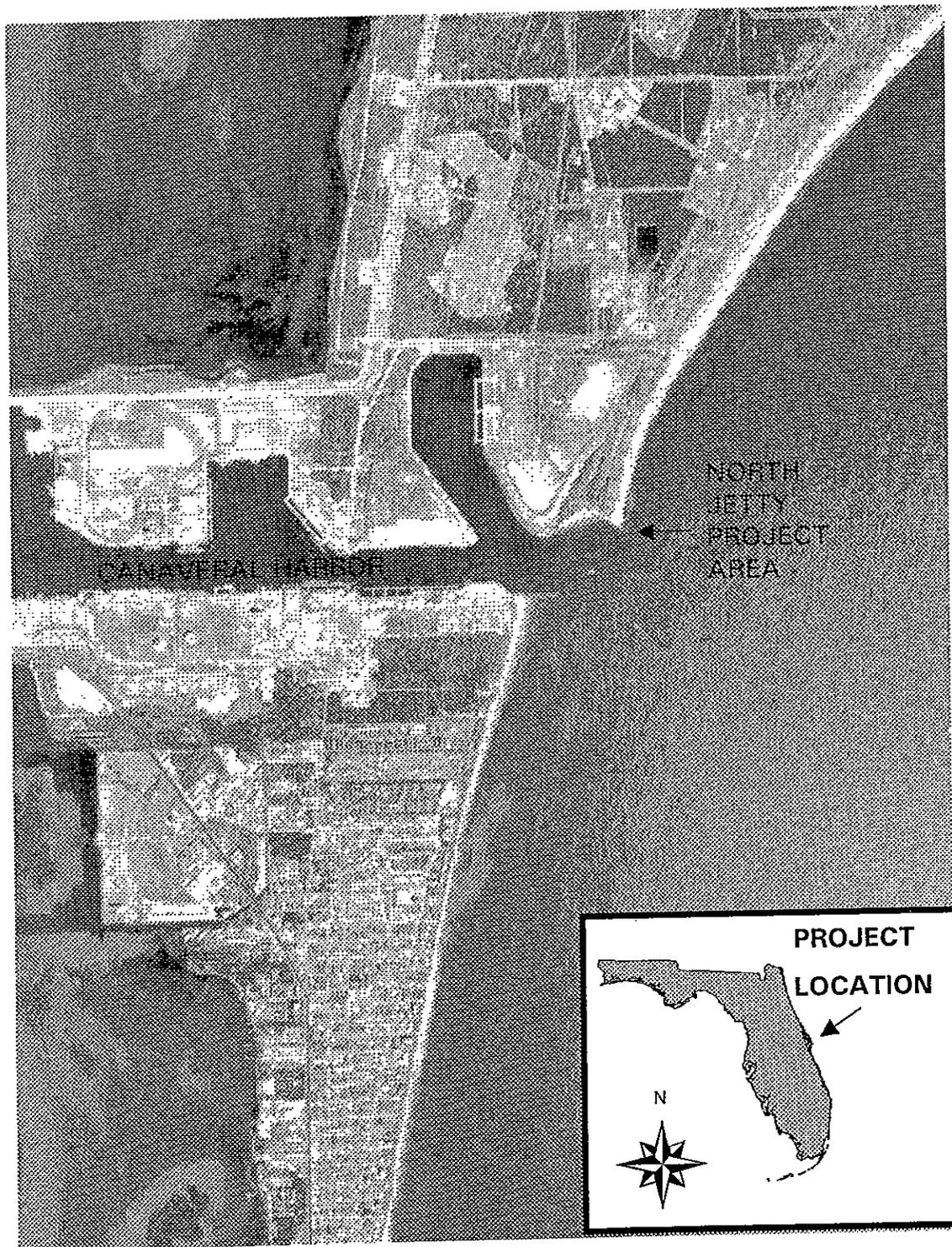
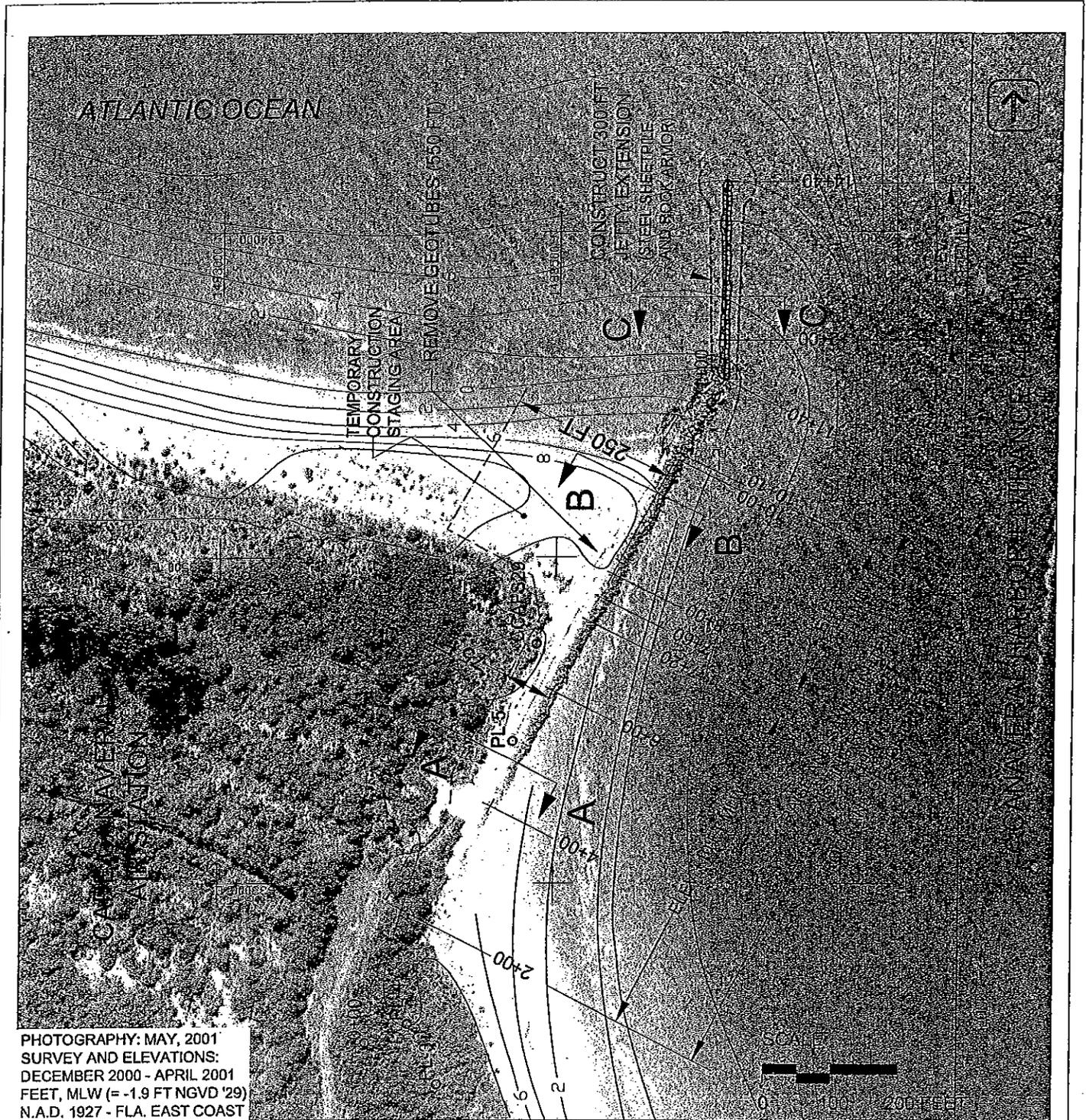


FIGURE 2: PLAN OF IMPROVEMENT, NORTH JETTY PERMANENT SAND-TIGHTENING AND EXTENSION



PHOTOGRAPHY: MAY, 2001
 SURVEY AND ELEVATIONS:
 DECEMBER 2000 - APRIL 2001
 FEET, MLW (= -1.9 FT NGVD '29)
 N.A.D. 1927 - FLA. EAST COAST

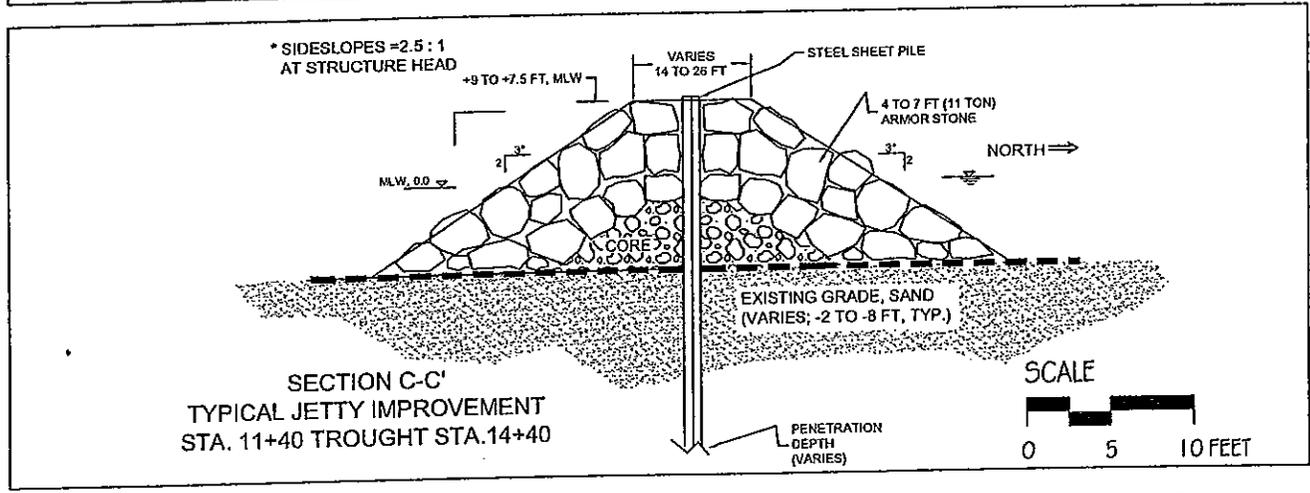
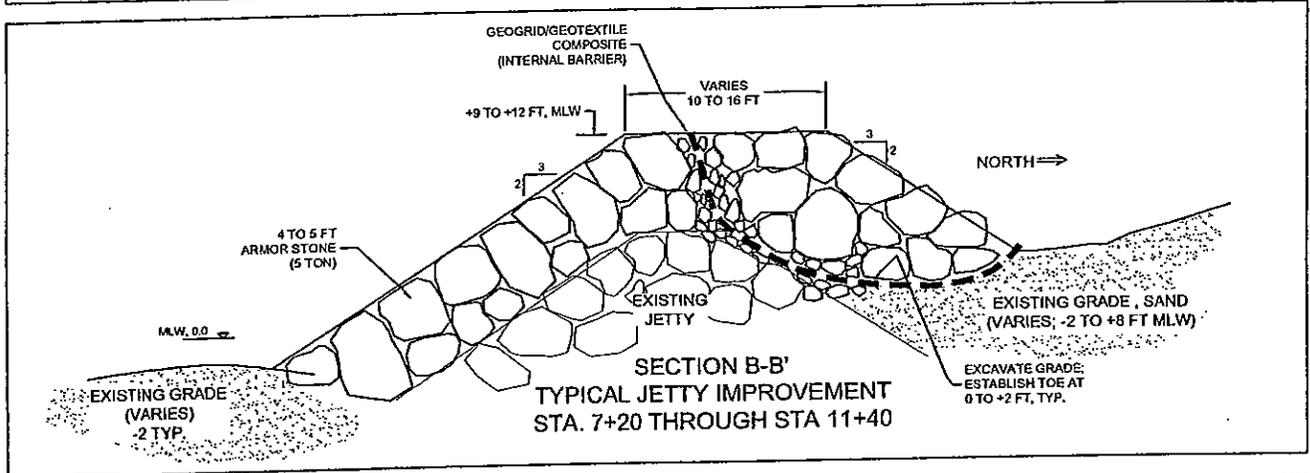
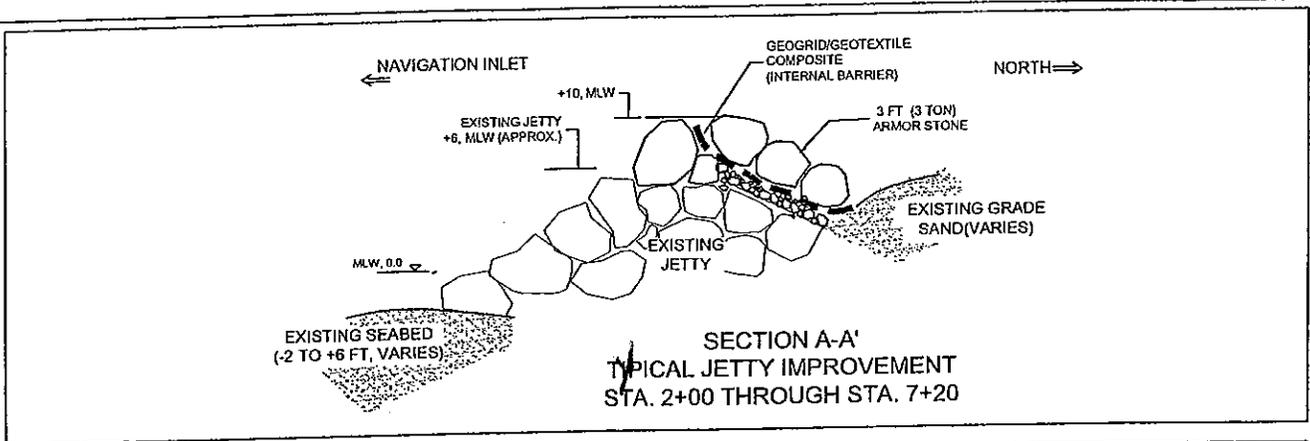


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CANAVERAL PORT AUTHORITY
 NORTH JETTY PERMANENT SAND TIGHTENING
 PLAN OF IMPROVEMENT

| | | | |
|-------------------|--------------------|---------------------------------|-------------------|
| DATE: 01/04/02 | APPROVED: K. B. | REVISION: STAGING AREA WIDTH | DATE: 10/01/01 |
| | | | DRAWN BY: S.H. |
| | | | SHEET 2 OF 4 |

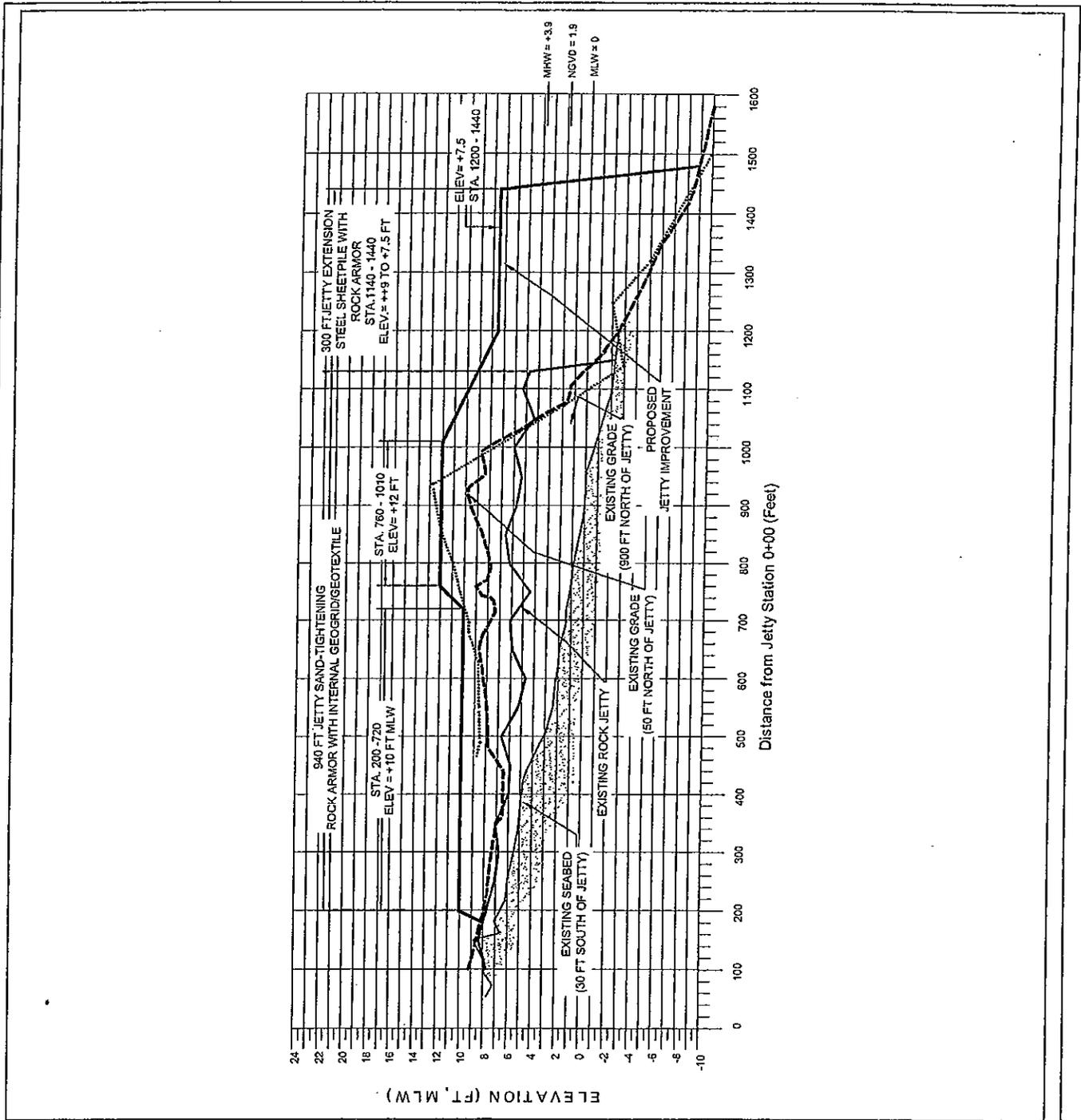
FIGURE 3: NORTH JETTY CROSS-SECTIONS



NOT FOR PURPOSES OF CONSTRUCTION

| | | | | | |
|--|---|-------|----------|----------|----------------|
|  <p>olsen associates, inc. 4438 Herschel Street Jacksonville, FL 32210 (904) 387-6114 (Fax) 384-7368</p> | <p>CANAVERAL HARBOR, NORTH JETTY PERMANENT SAND TIGHTENING</p> <p>NORTH JETTY CROSS-SECTIONS</p> | DATE: | APPROVED | REVISION | DATE: 10/01/01 |
| | | | | | DRAWN BY: SH |
| | | | | | SHEET 3 of 4 |

FIGURE 4. NORTH JETTY ELEVATION VIEW



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CANAVERAL HARBOR, NORTH JETTY
 PERMANENT SAND TIGHTENING
 NORTH JETTY - ELEVATION VIEW

| DATE: | APPROVED | REVISION | DATE: |
|-------|----------|----------|-----------------|
| | | | 10/01/01 |
| | | | DRAWN BY: SH |
| | | | SHEET 4 OF 4 |