



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

REPLY TO
ATTENTION OF

July 26, 2002

Regulatory Division
Atlantic Permits Branch
200102337 (IP-JBC)

Nassau County Board of Commissioners
2290 State Route 200
Fernandina Beach, Florida 32034

To Whom It May Concern::

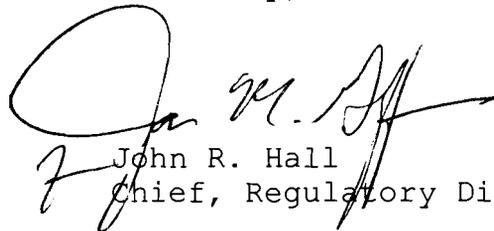
We are pleased to enclose a Department of the Army permit for your project. Work may begin in accordance with the terms and conditions of the issued permit. The Enforcement Branch of the Regulatory Division must be notified of:

- a. The date of commencement of work,
- b. The dates of work suspension and resumption if work is suspended over a week, and
- c. The date of final completion.

The Enforcement Branch is responsible for inspections to determine that permit conditions are strictly adhered to. A copy of the permit and drawings must be available at the site of work.

IT IS NOT LAWFUL TO DEVIATE FROM
THE APPROVED PLANS ENCLOSED.

Sincerely,


John R. Hall
Chief, Regulatory Division

Enclosures

Copy Furnished: (w/o encls)

Mr. Walter Kloss, Pitman-Hartenstein & Associates,
7820 Arlington Expressway, Suite 640, Jacksonville, Florida 32211

DEPARTMENT OF THE ARMY PERMIT

Permittee: Nassau County Board of Commissioners

Permit No: 200102337(IP-MMS)

Issuing Office: U.S. Army Engineer District, Jacksonville

NOTE: The term "you" and its derivatives, as used in this permit, mean the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the U.S. Army Corps of Engineers (Corps) having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: The permittee is authorized to dredge 0.40 acre and fill 0.15 acre of waters of the United States to construct a boat ramp. The work is to be completed in accordance with the attached plans numbered in 11 sheets dated May 14, 2001.

Project Location: The project is located on the eastern shore of the Amelia River, northwest of Pogey Place, in Section 10, Township 3 North, Range 28 East, Fernandina Beach, Nassau County, Florida.

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on 24 MAY 2007. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine

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if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature and mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

1. The permittee shall provide written notification to the Corps, within 72 hours, of the planned date for the commencement of work authorized by this permit. This notification and all subsequent reports and submittals shall be sent by certified mail to the U.S. Army Corps of Engineers, Regulatory Division, Enforcement Branch, 400 West Bay Street, Room 201, Jacksonville, Florida, 32202.

2. The permittee shall provide as-built drawings of the completed work, including any mitigation work required by this permit, and a completed As-Built Certification Form. The drawings and Certification Form are to be submitted within 60 days of the completion of work, including any mitigation work, or at the expiration of the construction authorization of the permit, whichever comes first. The drawings and As-Built Certification Form must be signed and sealed by

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a professional engineer registered in the State of Florida. A blank As-Built Certification Form is attached.

3. The submitted As-Built Certification Form and drawings shall include the following:

- a. The Department of the Army Permit number on each sheet.
- b. A plan view of the overall footprint of the project showing all "earth disturbance", including wetland impacts, water management structures, and any on-site mitigation areas.
- c. A detailed plan view of all created, restored, enhanced and/or preserved (as appropriate) mitigation areas (showing planting zones) and cross-sections of the mitigation areas (showing elevations corresponding to the plantings and elevations of the inverts of any inflow and/or outflow control structures servicing the mitigation areas).
- d. Any stormwater management system, that is a part of, or connected to, a wetland creation, restoration, enhancement or preservation mitigation project. This information shall include, but not be limited to, the elevations of the inverts of any control structures and drawings depicting any stormwater retention ponds with the depths and side-slopes of the ponds clearly delineated.
- e. A description of any deviations from the authorized work. In the event that the completed work deviates, in any manner, from the authorized work, the permittee shall describe, on the As-Built Certification Form, the deviations between the work authorized by the permit and the work as constructed. Any deviations shall also be depicted in the as-built drawings. *Please note that the depiction and/or description of any deviations on the drawings and/or As-Built Certification Form does not constitute approval of any deviations by the U.S. Army Corps of Engineers and any deviations will be reviewed by the Enforcement Section to determine the need for enforcement action.*
- f. Include pre- and post-construction aerial photographs of the project site, if available.

Manatee Special Conditions:

1. The permittee shall instruct all personnel associated with the project of the potential presence of manatees and the need to avoid collisions with manatees. All construction personnel are responsible for observing water-related activities for the presence of manatee(s).

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2. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972, the Endangered Species Act of 1973, and the Florida Manatee Sanctuary Act of 1978. The permittee and/or contractor may be held responsible for any manatee harmed, harassed, or killed as a result of construction activities.

3. Siltation barriers shall be installed and shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be monitored regularly to avoid manatee entrapment. Barriers shall not block manatee entry to or exit from essential habitat.

4. All vessels associated with the project shall operate at "no wake/idle" speeds at all times while in water where the draft of the vessel provides less than four feet clearance from the bottom and that vessels shall follow routes of deep water whenever possible.

5. If a manatee is sighted within 100 yards of the project area, all appropriate precautions shall be implemented by the permittee/contractor to ensure protection of the manatee. These precautions shall include the operation of all moving equipment no closer than 50 feet of a manatee. Operation of any equipment closer than 50 feet to a manatee shall necessitate immediate shutdown of that equipment. Activities will not resume until the manatee(s) has departed the project area of its own volition.

6. Any collision with and/or injury to a manatee shall be reported immediately to the "Manatee Hotline" at 1-800-DIAL-FMP (1-800-342-5367). **Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-407-562-3909) in south Florida.**

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7. Temporary signs concerning manatees shall be posted prior to and during construction/dredging activities. All signs are to be removed by the lessee/grantee upon completion of the project. A sign measuring at least 3 feet by 4 feet which reads *Caution: Manatee Area* will be posted in a location prominently visible to water related construction crews. A second sign should be posted if vessels are associated with the construction, and should be placed visible to the vessel operator. The second sign should be at least 8 1/2 inches by 11 inches which reads:

Caution: Manatee Habitat. Idle speed is required if operating a vessel in the construction area. All equipment must be shutdown if a manatee comes within 50 feet of the operation. A collision with and/or injury to a manatee shall be reported immediately to the Florida Marine Patrol at 1-800-DIAL-FMP (1-800-343-5367) and the U.S. Fish and Wildlife Service at (1-904-232-2580) for north Florida or (1-407-562-3909) for south Florida.

8. A permanent manatee awareness sign shall be installed and maintained at the docking facility. The sign shall be three feet by four feet, 125 gauge 61TS aluminum, covered with white, engineer grade, reflective sheeting; black, painted lettering; black screened design; and orange, engineer grade, reflective tape border. The 3 feet wide by 4 feet long sign shall conform to the Florida Uniform Waterway Marking System in accordance with F.S. 327.40-1. The installation of the sign shall be made in accordance with DEP specification for such signs.

9. Verification (photos) that signs have been installed at designated locations shall be provided to the FWS and the Corps before the docking facility begins operations. Signs and pilings remain the responsibility of the owner(s) and are to be maintained for the life of the docking facility in a manner acceptable to the Corps of Engineers.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

(X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).

() Section 404 of the Clean Water Act (33 U.S.C. 1344).

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() Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, State, and local authorization required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal projects.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time that the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

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b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions: General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

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Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.


(PERMITTEE SIGNATURE)

July 22, 2002
(DATE)

Nick D. Deonas
(PRINT/TYPE PERMITTEE NAME)

Chairman, Nassau County Board of County Commissioners
(PRINT/TYPE PERMITTEE TITLE, IF APPROPRIATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.


(DISTRICT ENGINEER)
James G. May
Colonel, U.S. Army

25 July 2002
(DATE)

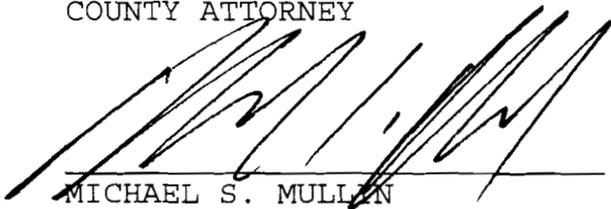
NASSAU COUNTY BOARD OF COUNTY COMMISSIONERS

ATTEST:



J. M. "CHIP" OXLEY, JR.
EX-OFFICIO CLERK

APPROVED AS TO FORM BY THE NASSAU
COUNTY ATTORNEY



MICHAEL S. MULLEN

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When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

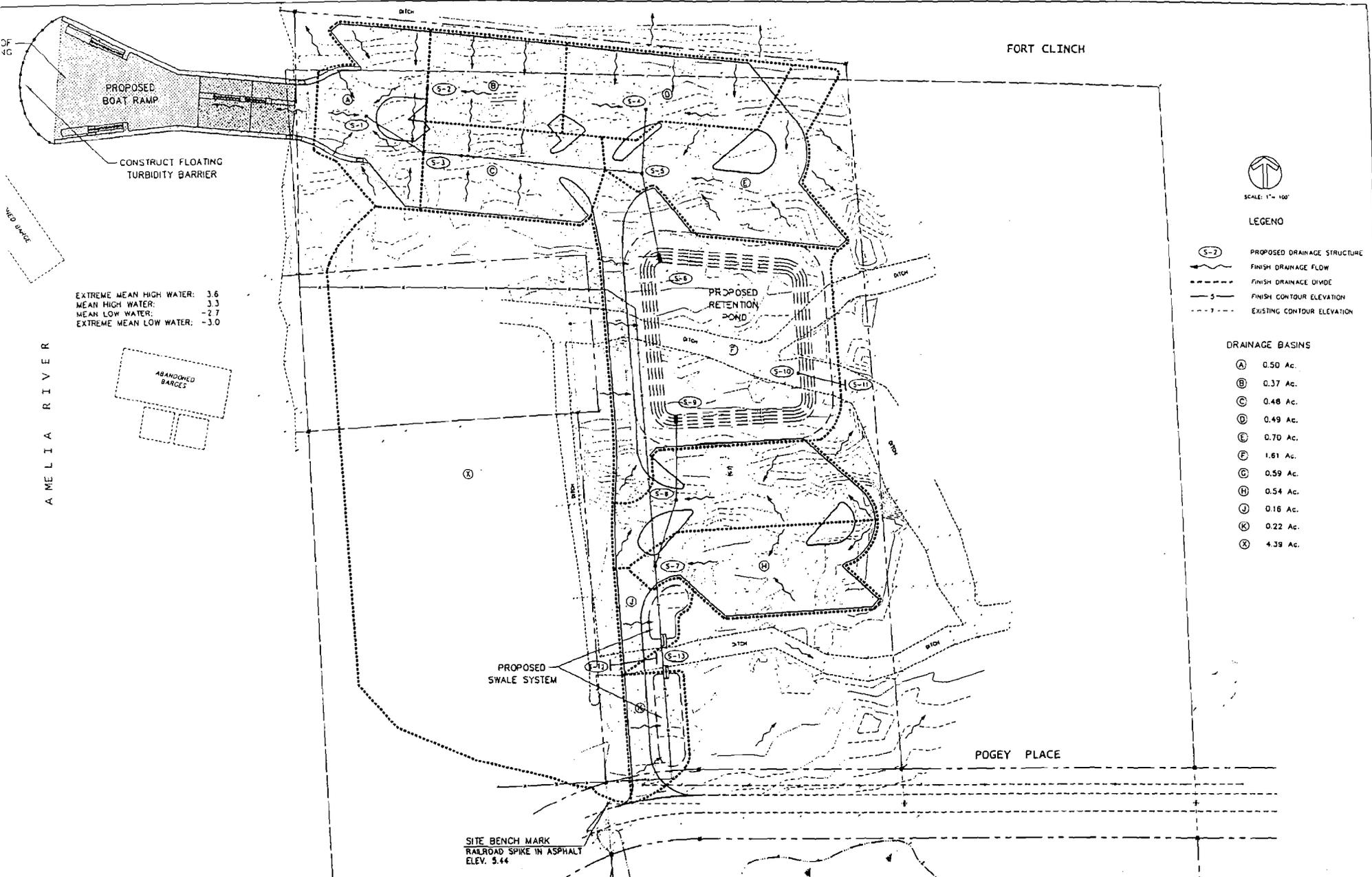
(TRANSFEREE - SIGNATURE)

(DATE)

(NAME-PRINTED)

(ADDRESS)

(CITY, STATE, AND ZIP CODE)



EXTREME MEAN HIGH WATER: 3.6
 MEAN HIGH WATER: 3.3
 MEAN LOW WATER: -2.7
 EXTREME MEAN LOW WATER: -3.0

SCALE: 1" = 100'

LEGEND

- (S-2) PROPOSED DRAINAGE STRUCTURE
- ~ FINISH DRAINAGE FLOW
- - - FINISH DRAINAGE DIVIDE
- - - FINISH CONTOUR ELEVATION
- - - EXISTING CONTOUR ELEVATION

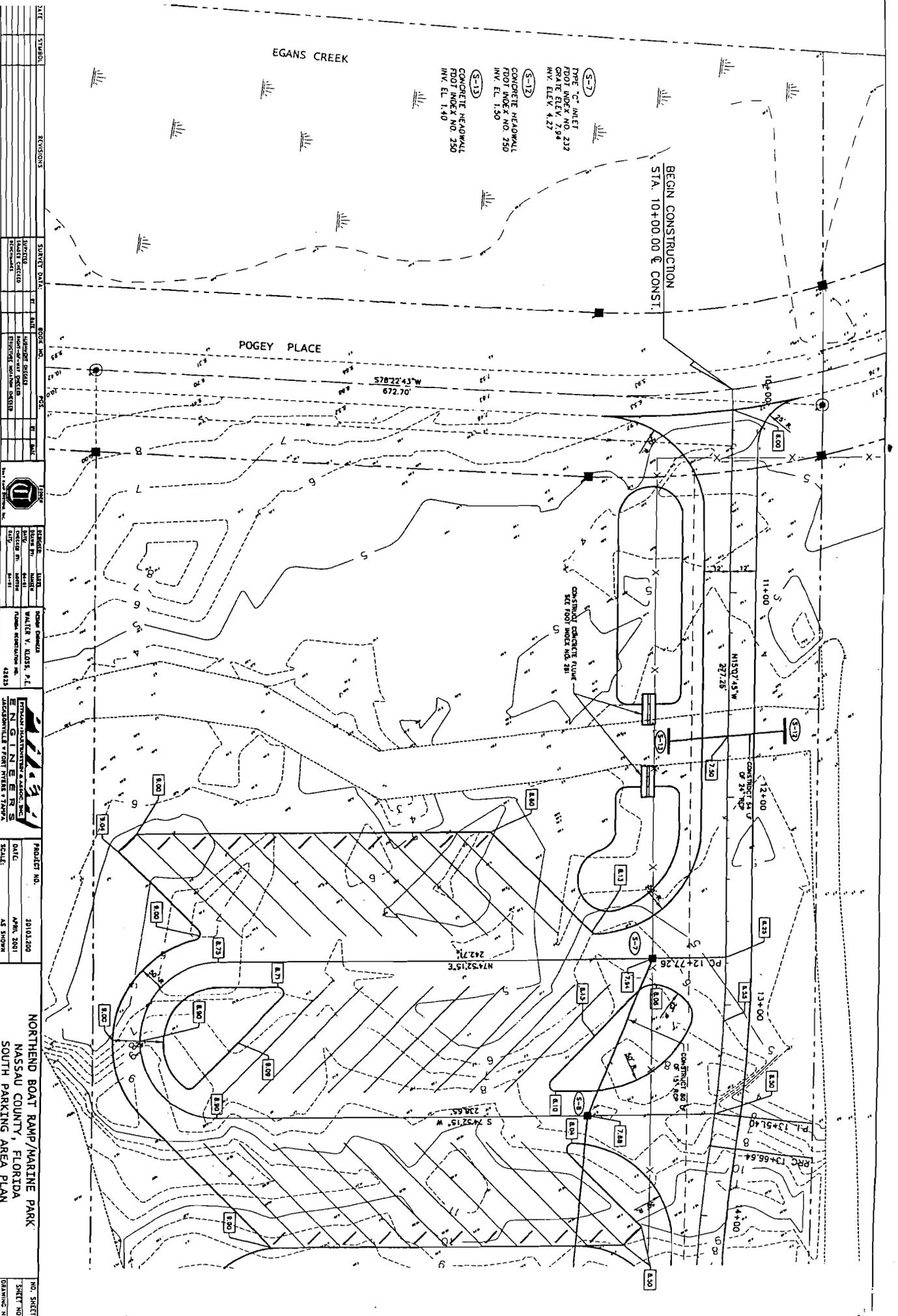
DRAINAGE BASINS

(A)	0.50 Ac.
(B)	0.37 Ac.
(C)	0.48 Ac.
(D)	0.49 Ac.
(E)	0.70 Ac.
(F)	1.61 Ac.
(G)	0.59 Ac.
(H)	0.54 Ac.
(J)	0.16 Ac.
(K)	0.22 Ac.
(X)	4.39 Ac.

REVISIONS	SURVEY DATA	BOOK NO.	PGS.	DESIGNED BY	DATE	PROJECT NO.	20103.200	NORTHEND BOAT RAMP/MARINE PARK NASSAU COUNTY, FLORIDA POST DEVELOPEMENT DRAINAGE MAP	NO. SHEETS
				WALTER V. KLOSS, P.E.	APRIL 2001	DATE:	AS SHOWN		SHEET NO.
				FLORIDA REGISTRATION NO.	42625	SCALE:		DRAWING NO.	

U.S. Army Corps of Engineers
 Application # 200102337(IP-MMS)
 Drawing 3 of 11
 14 May 2001

Walter V. Kloss
 5/8/01



(S-17) TYPE "C" INLET
 FLOOD INDEX NO. 232
 CMAA ELEV. 7.94
 INV. ELEV. 4.27
 (S-12) CONCRETE HEADWALL
 FLOOD INDEX NO. 250
 INV. EL. 1.50
 (S-11) CONCRETE HEADWALL
 FLOOD INDEX NO. 250
 INV. EL. 1.40

BEGIN CONSTRUCTION
 STA. 10+00.00 @ CONST.

POGEY PLACE

578°22'43"W
 672.70'

CONSTRUCT CONCRETE FLUME
 SEE FLOOD INDEX NO. 281

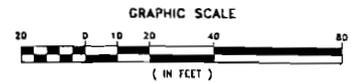
CONSTRUCT 54" U
 OF 24" HD

CONSTRUCT 18" U
 OF 12" HD

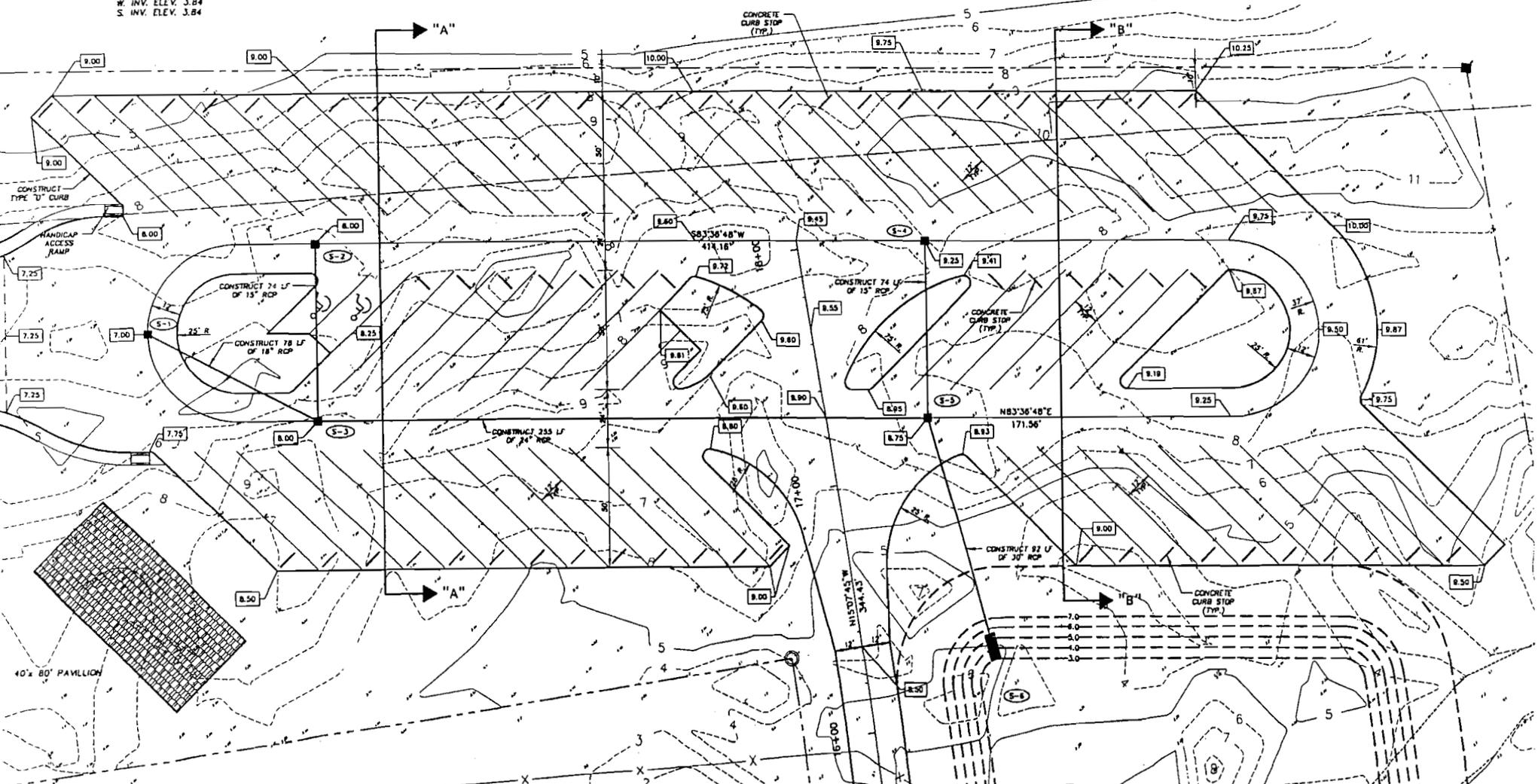
DATE	2001.03.01	PROJECT NO.	20010130
SCALE	AS SHOWN	DATE	APRIL 2001
NORTHEND BOAT RAMP/MARINE PARK NASSAU COUNTY, FLORIDA SOUTH PARKING AREA PLAN		ENGINEER N. G. L. N. E. E. S. JACKSONVILLE, FLORIDA	
DESIGNER WALTER V. KLOS, P.E. FLORENCE, SOUTH CAROLINA		CHECKED BY M. J. HARRIS JACKSONVILLE, FLORIDA	
DRAWING NO. 48233		PROJECT NO. 20010130	
DRAWING TITLE SOUTH PARKING AREA PLAN		DATE APRIL 2001	
DRAWING NO. 48233		SCALE AS SHOWN	
DRAWING NO. 48233		DATE APRIL 2001	
DRAWING NO. 48233		SCALE AS SHOWN	
DRAWING NO. 48233		DATE APRIL 2001	
DRAWING NO. 48233		SCALE AS SHOWN	

U.S. Army Corps of Engineers
 Application # 200102337 (IP-MMS)
 Drawing 4 of 11
 14 May 2001

U.S. Army Corps of Engineers
 Application # 200102337 (IP-MMS)
 Drawing 6 of 11
 14 May 2001

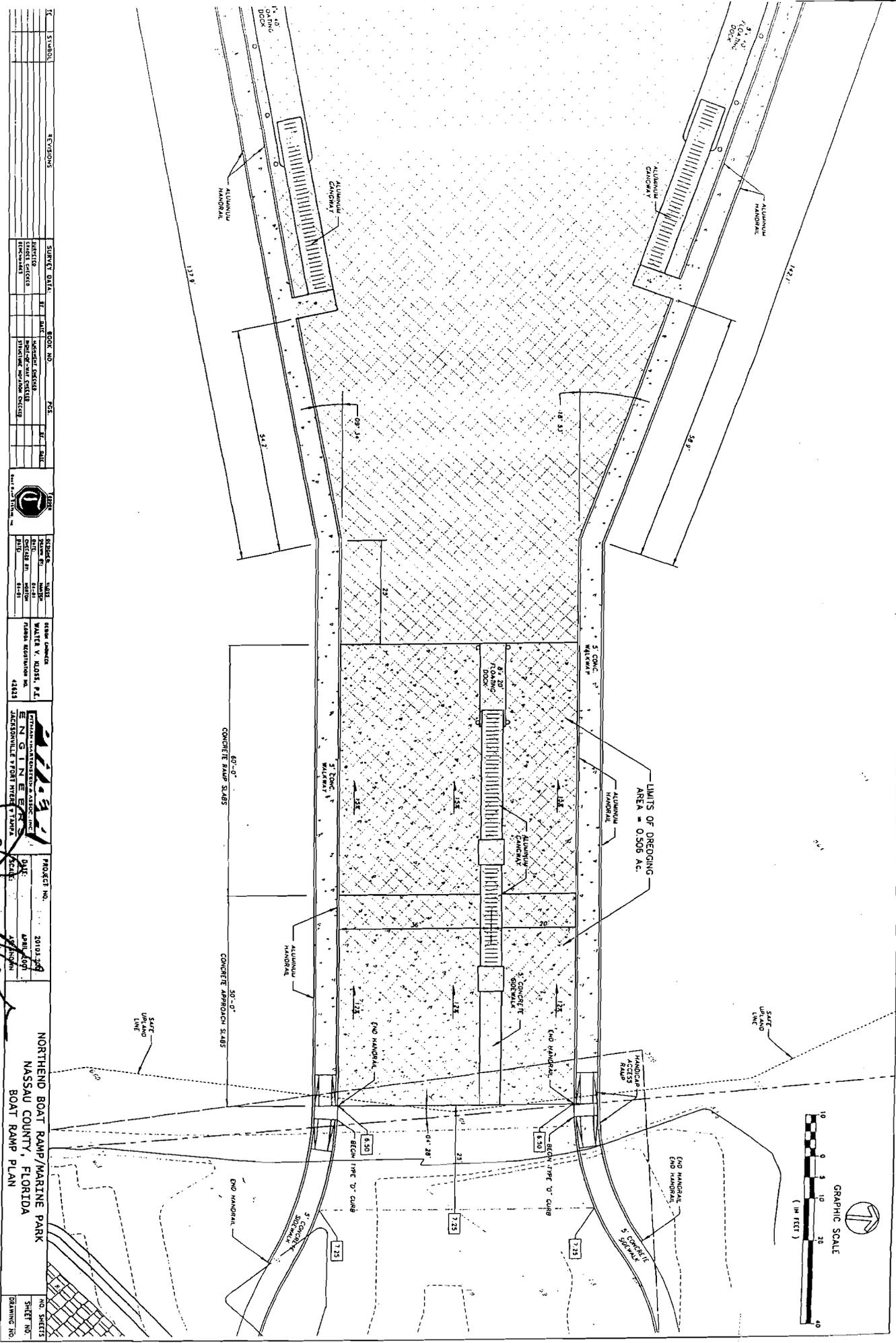
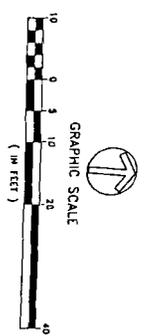


- S-1**
TYPE "C" INLET
FDOT INDEX NO. 232
GRATE ELEV. 7.00
INV. ELEV. 4.49
- S-2**
TYPE "C" INLET
FDOT INDEX NO. 232
GRATE ELEV. 8.00
INV. ELEV. 5.28
- S-3**
TYPE "E" INLET
FDOT INDEX NO. 232
GRATE ELEV. 8.00
E. INV. ELEV. 4.15
N. INV. ELEV. 5.15
W. INV. ELEV. 4.40
- S-4**
TYPE "C" INLET
FDOT INDEX NO. 232
GRATE ELEV. 9.25
INV. ELEV. 4.97
- S-5**
TYPE "E" INLET
FDOT INDEX NO. 232
GRATE ELEV. 8.75
N. INV. ELEV. 4.84
W. INV. ELEV. 3.84
S. INV. ELEV. 3.84
- S-6**
MITERED END SECTION
FDOT INDEX NO. 272
(4:1)
INV. ELEV. 3.75



DATE	SYMBOL	REVISIONS	SURVEY DATA	BOOK NO.	PCS	SEAL	DESIGNER	CHECKER	DATE	PROJECT NO.	NO. SHEETS
							WALTER V. GLOSS, P.E.			20103.200	11
											SHEET NO.

NORTHEAST BOAT RAMP/MARINE PARK
 NASSAU COUNTY, FLORIDA



NO.	DATE	BY	CHKD.	DESCRIPTION
1	2001.04	AS/AMH		ISSUED FOR PERMITS
2	2001.05	AS/AMH		ISSUED FOR CONSTRUCTION

DESIGNED BY	WALTER V. KLUIS, P.E.
CHECKED BY	WALTER V. KLUIS, P.E.
DATE	APRIL 2001
SCALE	AS SHOWN

PROJECT NO.	2001.04
DATE	APRIL 2001
SCALE	AS SHOWN

NO. SHEETS	11
SHEET NO.	7
DRAWING NO.	

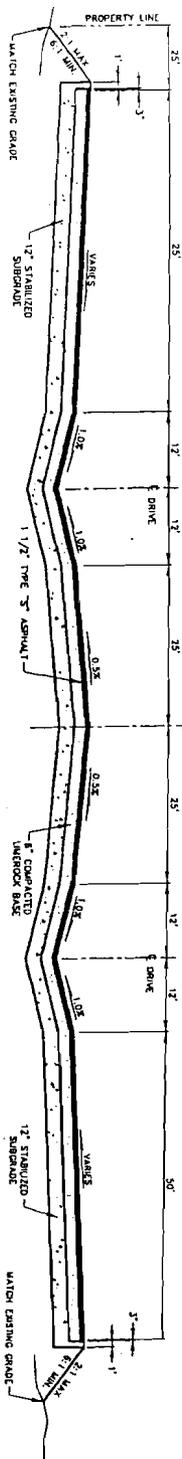
U.S. Army Corps of Engineers
 Application # 200102337 (IP-MMS)
 Drawing 7 of 11
 14 May 2001

Handwritten signature and date:
 5/18/01

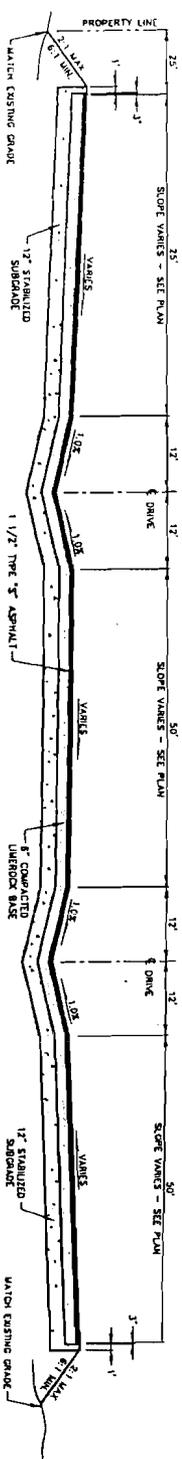
NORTHEND BOAT RAMP/MARINE PARK
 NASSAU COUNTY, FLORIDA
 BOAT RAMP PLAN

U.S. Army Corps of Engineers
 Application # 200102337 (IP-MMS)
 Drawing 8 of 11
 14 May 2001

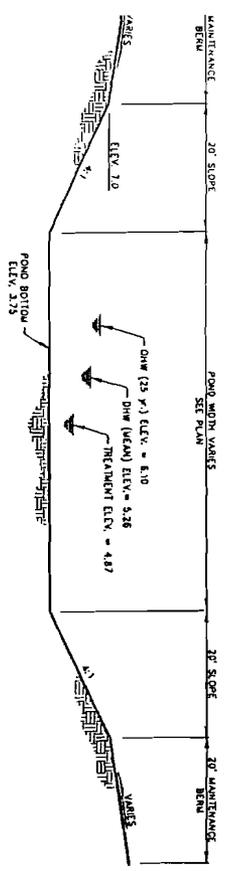
GENERAL NOTES



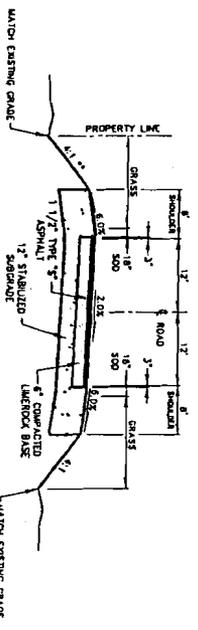
SECTION "A-A"



SECTION "B-B"



STORMWATER POND TYPICAL SECTION



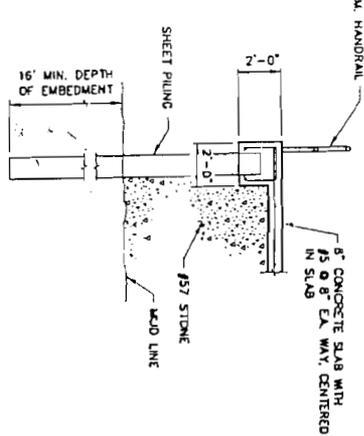
ENTRANCE ROAD TYPICAL SECTION

** FROM STATION 14+50 TO STATION 16+40
 SLOPE VARIES FROM MAX 2:1 TO MIN 4:1
 STA. 10+10.07 TO STA. 16+34.19

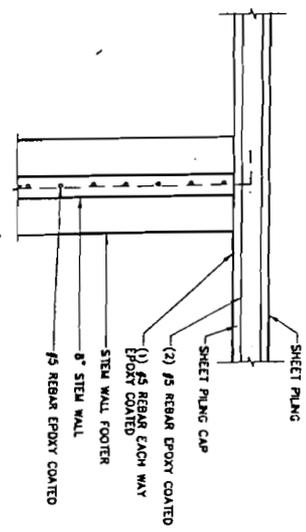
DATE	2/14/2001	REVISIONS	NO. SHEETS
BY	WALTER V. KLOS, P.E.	DESCRIPTION	SHEET NO.
CHECKED BY	WALTER V. KLOS, P.E.	DATE	2001.03.08
APPROVED BY	WALTER V. KLOS, P.E.	PROJECT NO.	2001.03.08
DATE	APRIL 2001	DATE	APRIL 2001

NORTHERND BOAT RAMP/MARINE PARK
 NASSAU COUNTY, FLORIDA

U.S. Army Corps of Engineers
Application # 200102337 (IP-MMS)
Drawing 11 of 11
14 May 2001

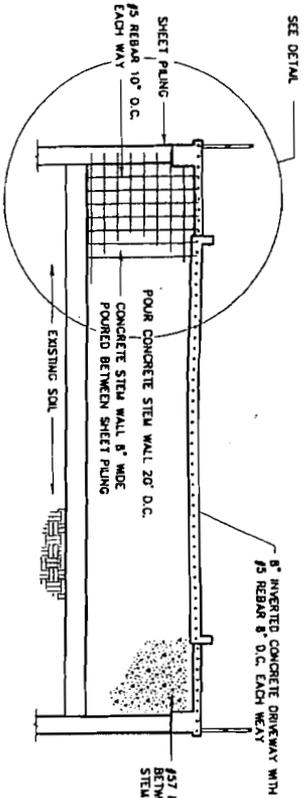


TYPICAL SECTION @ SHEET PILE WALL
NOT TO SCALE

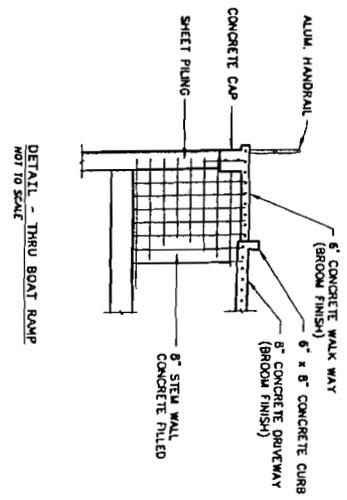


STEM WALL CONNECTION AT SHEET PILING CAP
NOT TO SCALE

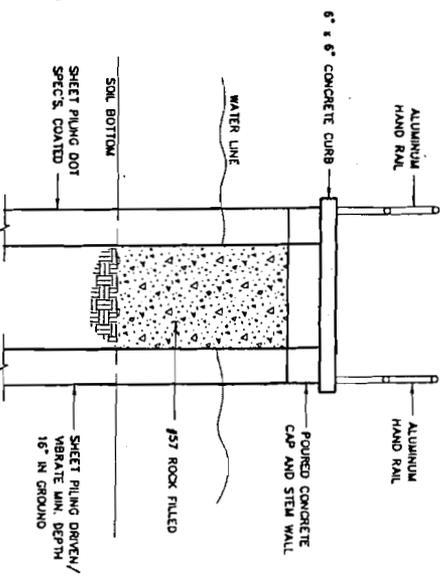
- NOTES:
1. ALL CONCRETE FOR STEM CAP SHALL BE A 5000 PSI MIX AT 28 DAYS
 2. DRIVEWAY AND CURB CONCRETE SHALL BE A 5000 PSI MIX AT 28 DAYS



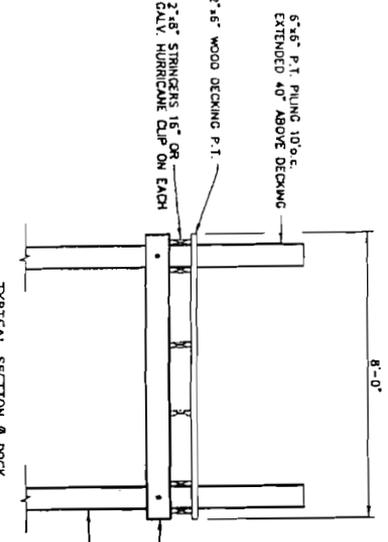
SECTION THRU BOAT RAMP
NOT TO SCALE



DETAIL - THRU BOAT RAMP
NOT TO SCALE



SECTION THRU BOAT RAMP WING
NOT TO SCALE



TYPICAL SECTION @ DOCK
NOT TO SCALE

- NOTES:
1. ALL DECK SHALL BE MIN. 3" ABOVE M.H.W.
 2. ALL WALKING SHALL BE STAINLESS STEEL.

DATE	3/20/01	REVISIONS	SHEET DATE	3/20/01	BOOR NO.	1	NO.	11
DESIGNED BY	WALTER V. ALONSO, P.E.	CHECKED BY	WALTER V. ALONSO, P.E.	DATE	3/20/01	NO.	11	11
PROJECT NO.	20101200	PROJECT NAME	NORTHERND BOAT RAMP/MARINE PARK	DATE	4/14/01	NO.	11	11
PROJECT NO.	20101200	PROJECT NAME	NORTHERND BOAT RAMP/MARINE PARK	DATE	4/14/01	NO.	11	11
PROJECT NO.	20101200	PROJECT NAME	NORTHERND BOAT RAMP/MARINE PARK	DATE	4/14/01	NO.	11	11

AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

Submit this form and one set of as-built engineering drawings by certified mail to the U.S. Army Corps of Engineers, Enforcement Branch, 400 West Bay Street, Room 201, Jacksonville, Florida, 32202. If you have questions regarding this requirement, please contact the Enforcement Branch at 904-232-1665.

1. Department of the Army Permit Number: **200102337 (IP-MMS)**

2. Permittee Information:

: Nassau County Board of Commissioners
2290 State Route 200
Fernandina Beach, Florida 32034

3. Project Site Identification: The project site is located on the eastern shore of the Amelia River, northwest of Pogy Place, in Section 10, Township 3 North, Range 28 East, Fernandina Beach, Nassau County, Florida.

4. As-Built Certification: I hereby certify that the authorized work, including any mitigation required by Special Conditions to the permit, has been accomplished in accordance with the Department of the Army permit with any deviations noted below. This determination is based upon on-site observation, scheduled and conducted by me or by a project representative under my direct supervision. I have enclosed one set of as-built engineering drawings.

Signature of Engineer

Name (Please type)

Florida Reg. Number

Company Name

City
(Affix Seal)

State

ZIP

Date

Telephone Number

Attach additional pages as necessary to identify deviations from the approved permit drawings and special conditions.



Jeb Bush
Governor

Department of Environmental Protection

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

David B. Struhs
Secretary

NOTICE OF PERMIT ISSUANCE

June 27, 2002

RECEIVED

JUN 28 2002

**JACKSONVILLE DISTRICT
USACE**

In the Matter of an
Application for a Permit by:

Nassau County Board of County Comm.
C/o Mr. Jack D/Amato
Public Works Director
2290 State Road 200
Fernandina Beach, Florida 32034

File No.: 45-183509-001-ES
Nassau County

Enclosed is Permit Number No. 45-183509-001-ES to construct a public boat ramp, issued pursuant to Part IV of Chapter 373, and Chapters 253, and 258, Florida Statutes, Title 18 and 62, Florida Administrative Code, and Public Law 92-500.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

for Ernest E. Frey
Ernest E. Frey, P.E.
Director of District Management

Copies furnished to: ACOE, Jacksonville
DEP Office of General Counsel, Lucinda Roberts
FFWCC, Bureau of Protected Species Management, Carol Knox
Susie Hetrick, DEP Division of Recreation and Parks

CERTIFICATE OF SERVICE

This is to certify that the NOTICE OF PERMIT and all copies were mailed before the close of business on 6/27/02 to the listed persons.

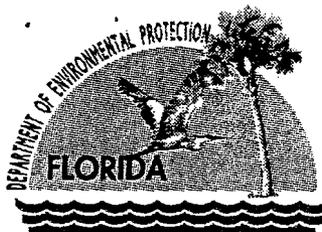
FILING AND ACKNOWLEDGEMENT

FILED on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

"More Protection, Less Process"

Printed on recycled paper.

Lucinda Roberts
Clerk Date 6/27/02



Department of Environmental Protection

Jeb Bush
Governor

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

David B. Struhs
Secretary

CONSOLIDATED ENVIRONMENTAL RESOURCE PERMIT AND SOVEREIGNTY SUBMERGED LANDS AUTHORIZATION

PERMITTEE/AUTHORIZED ENTITY:

Board of County Commissioners
Nassau County
c/o Jack D'Amato, Public Works Director
2290 State Road 200
Fernandina Beach, FL 32034

Permit Number: 45-183509-001-ES
Date of Issue: June 27, 2002
Expiration Date of Construction Phase:
June 27, 2007
County: Nassau
Project: North End Boat Ramp

AGENT:

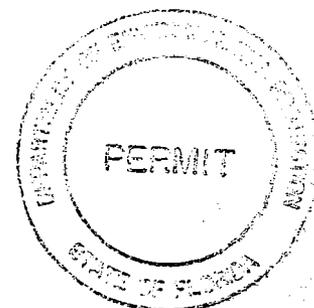
Pitman, Hartenstein & Assoc., Inc.
C/o Mark Norton
7820 Arlington Expressway, Suite 640
Jacksonville, FL 32211

This permit is issued under the authority of Part IV of Chapter 373, F.S., and Title 62, Florida Administrative Code (F.A.C.). The activity is not exempt from the requirement to obtain an environmental resource permit. Pursuant to Operating Agreements executed between the Department and the water management districts, as referenced in Chapter 62-113, F.A.C., the Department is responsible for reviewing and taking final agency action on this activity.

ACTIVITY DESCRIPTION:

Construct a public boat ramp facility, accessory docks, sheet pile walls, upland parking lot and stormwater treatment system and dredge approximately 1,800 cubic yards of material on the Amelia River, Nassau County. The facility is to provide 95 spaces for vehicles and trailers and is to include a covered pavilion.

The boat ramp is located within the Fort Clinch State Park Aquatic Preserve, an Outstanding Florida Water. The boat ramp surface is to be 110-foot-long X 56-foot-wide with 3 lanes for launching boats. Approximately 1,800 cubic yards of material is to be dredged for an access channel providing water depths of -9.0 feet mean low water. Two 227-foot-long X 5-foot-wide sheet pile walls are to be constructed on the north and south side of the boat ramp and access channel. Two 40-foot-long X 8-foot-wide floating accessory docks with 40-foot-long X 6-foot-wide aluminum gangways are to be constructed near the waterward ends of the sheet pile walls. A 20-foot-long X 8-foot-wide floating accessory dock with a 60-foot-long X 5-foot-wide aluminum gangway is to be construct on the boat ramp surface.



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The boat ramp is to eliminate 0.13 acres of salt marsh vegetation along the shoreline. To mitigate for the salt marsh elimination, a 0.25-acre upland area is to be excavated adjacent to salt marsh associated with Egans Creek. The creation area is to revegetate through natural recruitment from the adjacent marsh. A 22-acre area of salt marsh along Pogey Place Road is to be placed into a Conservation Easement. The easement is to encumber only those areas landward of the mean high water line and is to allow for the future construction of an observation/fishing pier not designed to moor vessels pursuant to all necessary permits. A vegetated buffer and perimeter fence are to be incorporated in the upland development to provide a buffer between the facility and the adjacent Fort Clinch State Park property. Nassau County and Fort Clinch State Park personnel are to coordinate on the vegetated buffer and fence design.

Construct and operate a stormwater management system. The stormwater management system is to provide for the treatment of stormwater runoff from the parking lot and entrance road. The stormwater management system is to consist of a dry retention pond intended to serve the 5.71-acre facility. Stormwater runoff from the roadways and parking lot is to be conveyed to the stormwater ponds through a stormwater pipe collection system.

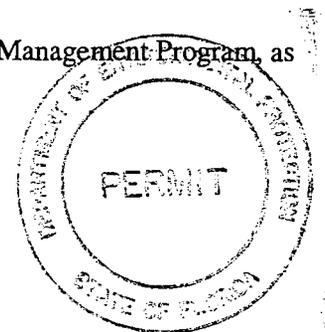
The stormwater retention pond is to provide water quality treatment of stormwater runoff from the first 1.25 inches of runoff from the impervious surface (building, parking lot, etc.), plus an additional 0.5 inches of runoff from the contributing drainage area. The stormwater retention ponds are to recover the required treatment volume within 72 hours following a storm event.

Approximately 0.14 ± acres of new impervious area (boat ramp) cannot receive water quality treatment. To compensate for the lack of treatment for this area, compensatory treatment of an existing impervious area of 0.71 acres (Pogey Place Road) currently not receiving water quality treatment is to be provided. A drainage swale is to provide water quality treatment of stormwater runoff from the roadway. Since the boat ramp is located in an Outstanding Florida Water, the drainage swale is to provide retention of the total runoff from the roadway for the 3-year 1-hour storm event. The drainage swale is to recover the required treatment volume within 72 hours following a storm event.

To minimize erosion and sedimentation during construction activities, temporary erosion and sedimentation control measures (silt fencing, hay bales, etc) are to be installed and maintained on site. Permanent erosion control mats are to be installed at the end of all culverts to prevent erosion from occurring as a result of stormwater flows. An energy dissipating /erosion control mat is to be installed on the discharge side of the pond's control structure outfall pipe. The energy dissipating /erosion control mat is to prevent erosion from occurring at the point of discharge to the receiving water body by dissipating erosive velocities resulting from the discharge of stormwater from the stormwater pond. Once final grades are achieved, all disturbed earthen surface areas are to have established a permanent grassed vegetative cover.

The activity is located on the Amelia River, Section 10, Township 03 North, Range 28 East, Class III Waters, not within a Shellfish Harvesting Area, within an Outstanding Florida Waters.

This permit also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Management Act.



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This permit also constitutes certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341.

This activity also requires a proprietary authorization, as the activity is located on sovereignty submerged lands owned by the Board of Trustees of the Internal Improvement Trust Fund, pursuant to Article X, Section 11 of the Florida Constitution, and Sections 253.002 and 253.77, F.S. The activity is not exempt from the need to obtain a proprietary authorization. The Department has the responsibility to review and take final action on this request for proprietary authorization in accordance with Section 18-21.0051, F.A.C., and the Operating Agreements executed between the Department and the water management districts, as referenced in Chapter 62-113, F.A.C. In addition to the above, this proprietary authorization has been reviewed in accordance with Chapters 253 and 258, F.S., Chapters 18-21 and 18-20, F.A.C., and section 62-343.075, F.A.C.

As staff to the Board of Trustees, the Department has reviewed the activity described above, and has determined that the activity requires a lease for the use of those lands, pursuant to Chapter 253.77, F.S.

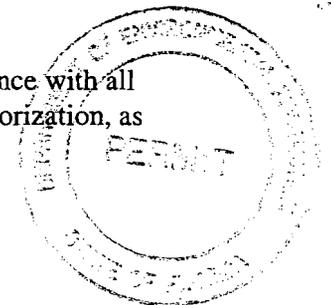
The final documents required to execute the lease have been sent to the Division of State Lands. The Department intends to grant the lease, upon satisfactory execution of those documents. **You may not begin construction of the activities on state owned sovereignty submerged lands until the lease documents have been executed to the satisfaction of the Department.**

This permit constitutes a determination, pursuant to section 380.0651(3)(e), F.S., that the facility is located so that it will not adversely impact Outstanding Florida Waters or Class II waters, and will not contribute to boat traffic in a manner that will adversely impact the manatee.

A copy of this authorization also has been sent to the U.S. Army Corps of Engineers (USACOE) for review. The USACOE may require a separate permit. Failure to obtain this authorization prior to construction could subject you to enforcement action by that agency. You are hereby advised that authorizations also may be required by other federal, state, and local entities. This authorization does not relieve you from the requirements to obtain all other required permits and authorizations.

The above named permittee is hereby authorized to construct the work shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof. **This permit and authorizations to use sovereignty submerged lands are subject to the limits, conditions, and locations of work shown in the attached drawings, and is also subject to the General Conditions and Specific Conditions, which are a binding part of this permit and authorization.** You are advised to read and understand these drawings and conditions prior to commencing the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings. If you are utilizing a contractor, the contractor also should read and understand these drawings and conditions prior to commencing the authorized activities. Failure to comply with all drawings and conditions shall constitute grounds for revocation of the permit and appropriate enforcement action.

Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and with the general and specific conditions of this permit/certification/ authorization, as specifically described below.



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GENERAL CONDITIONS:

- (1) All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
- (2) This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by Department staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
- (3) Activities approved by this permit shall be conducted in a manner which do not cause violations of state water quality standards.
- (4) Prior to and during construction, the permittee shall implement and maintain all erosion and sediment control measures (best management practices) required to retain sediment on-site and to prevent violations of state water quality standards. All practices must be in accordance with the guidelines and specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988), which are incorporated by reference, unless a project specific erosion and sediment control plan is approved as part of the permit, in which case the practices must be in accordance with the plan. If site specific conditions require additional measures during any phase of construction or operation to prevent erosion or control sediment, beyond those specified in the erosion and sediment control plan, the permittee shall implement additional best management practices as necessary, in accordance with the specifications in chapter 6 of the Florida Land Development Manual: A Guide to Sound Land and Water Management (Florida Department of Environmental Regulation 1988). The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
- (5) Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.
- (6) At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the Department a Construction Commencement Notice Form No. 62-343.900(3) indicating the actual start date and the expected completion date.
- (7) When the duration of construction will exceed one year, the permittee shall submit construction status reports to the Department on an annual basis utilizing an Annual Status Report Form No. 62-343.900(4). These forms shall be submitted during June of each year.



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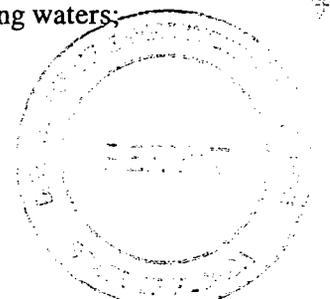
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(8) For those systems which will be operated or maintained by an entity which will require an easement or deed restriction in order to provide that entity with the authority necessary to operate or maintain the system, such easement or deed restriction, together with any other final operation or maintenance documents as are required by subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, must be submitted to the Department for approval. Documents meeting the requirements set forth in these subsections of the Applicant's Handbook will be approved. Deed restrictions, easements and other operation and maintenance documents which require recordation either with the Secretary of State or the Clerk of the Circuit Court must be so recorded prior to lot or unit sales within the project served by the system, or upon completion of construction of the system, whichever occurs first. For those systems which are proposed to be maintained by county or municipal entities, final operation and maintenance documents must be received by the Department when maintenance and operation of the system is accepted by the local governmental entity. Failure to submit the appropriate final documents referenced in this paragraph will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system.

(9) Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.

(10) Within 30 days after completion of construction of the permitted system, or independent portion of the system, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing "Environmental Resource Permit As Built Certification by a Registered Professional" (Form 62-343.900(5), F.A.C.) supplied with this permit. When the completed system differs substantially from the permitted plans, any substantial deviations shall be noted and explained and two copies of as-built drawings submitted to the Department. Submittal of the completed form shall serve to notify the Department that the system is ready for inspection. The statement of completion and certification shall be based on on-site observation of construction (conducted by the registered professional engineer, or other appropriate individual as authorized by law, or under his or her direct supervision) or review of as-built drawings for the purpose of determining if the work was completed in compliance with approved plans and specifications. As-built drawings shall be the permitted drawings revised to reflect any changes made during construction. Both the original and any revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor. The following information, at a minimum, shall be verified on the as-built drawings:

- a. Dimensions and elevations of all discharge structures including all weirs, slots, gates, pumps, pipes, and oil and grease skimmers;
- b. Locations, dimensions, and elevations of all filter, exfiltration, or underdrain systems including cleanouts, pipes, connections to control structures, and points of discharge to the receiving waters;



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- c. Dimensions, elevations, contours, or cross-sections of all treatment storage areas sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems, when appropriate;
- d. Dimensions, elevations, contours, final grades, or cross-sections of the system to determine flow directions and conveyance of runoff to the treatment system;
- e. Dimensions, elevations, contours, final grades, or cross-sections of all conveyance systems utilized to convey off-site runoff around the system;
- f. Existing water elevation(s) and the date determined; and
- g. Elevation and location of benchmark(s) for the survey.

(11) The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the condition in paragraph (9 and 10) above, the Department determines the system to be in compliance with the permitted plans, and the entity approved by the Department in accordance with subsections 7.1.1 through 7.1.4 of the Applicant's Handbook: Management and Storage of Surface Waters, accepts responsibility for operation and maintenance of the system. The permit may not be transferred to such an approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the Department, the permittee shall request transfer of the permit to the responsible approved operation and maintenance entity, if different from the permittee. Until the permit is transferred pursuant to section 7.1 of the Applicant's Handbook: Management and Storage of Surface Waters, and Section 62-343.110(1)(d), F.A.C., the permittee shall be liable for compliance with the terms of the permit.

(12) Should any other regulatory agency require changes to the permitted system, the permittee shall provide written notification to the Department of the changes prior to implementation so that a determination can be made whether a permit modification is required.

(13) This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and chapter 40C-4 or chapter 40C-40, F.A.C.

(14) The permittee is hereby advised that section 253.77, F.S., states that a person may not commence any excavation, construction, or other activity involving the use of sovereignty or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

(15) The permittee shall hold and save the Department harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.



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- (16) Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered specifically approved unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.
- (17) The permittee shall notify the Department in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 62-343.130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.
- (18) Upon reasonable notice to the permittee, Department authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
- (19) If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the Department.
- (20) The permittee shall immediately notify the Department in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIFIC CONDITIONS:

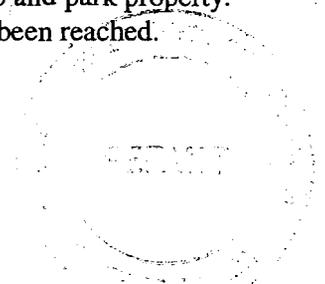
1. The terms, conditions, and provisions of the required lease shall be met. Construction of this activity **shall not commence** on sovereignty submerged lands, title to which is held by the Board of Trustees of the Internal Improvement Fund, until the required lease documents have been executed to the satisfaction of the Department.
2. Semi-annual narrative reports and all other written notifications shall be submitted to the Department of Environmental Protection, Submerged Lands and Environmental Resources Program, 7825 Baymeadows Way, Suite B-200, Jacksonville, FL 32256-7590, (phone number 904-807-3351). The semi-annual narrative reports shall indicate the status of the project and shall include the following information:
 - a. Date the permitted activity was begun; if work has not begun on-site please state so. If the construction commences between semi-annual reports, prior to commencement the permittee shall provide written notification of the date work is to begin.
 - b. A brief description and extent of work completed or in progress since the previous report or since the permit was issued. Indicate on copies of the permit drawings those areas where work has been completed.
 - c. A brief description and extent of work anticipated in the next six months and indicate those areas on copies of the permit drawings.
 - d. A brief description of any permitted activities where a decision has been made not to construct the activity(s).



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3. The project shall comply with applicable State Water Quality Standards, namely:
 - a) Surface Waters, Minimum Criteria, General Criteria - 62-302.500, F.A.C.
 - b) Class III Waters - Recreation, Propagation and Maintenance of a Healthy, Well-Balanced Population of Fish and Wildlife. - 62-302.400, F.A.C.
4. The structure authorized by this permit shall not be placed on any property, other than that owned by the permittee, without the prior written approval of that property owner.
5. All activities and structures shall be constructed in accordance with the attached drawings.
6. Appropriate turbidity controls shall be utilized throughout the project to contain any turbidity generated that exceeds state water quality standards.
7. All wetland areas and surface waters which are outside the specific limits of construction authorized by this permit shall be protected from erosion, siltation, scouring or excess turbidity or dewatering.
8. Prior to commencement of construction activities within uplands and wetlands, the permittee shall clearly delineate the property boundaries along the Fort Clinch State Park with flagging or other visual means to prevent encroachment within park property.
9. All construction equipment utilized within the nearshore and wetland areas shall be confined to the area inside of the two sheet pile walls. If there are construction constraints that requires any equipment to access nearshore and wetland areas outside (north or south) of the sheet pile walls, the permittee or engineer of record shall verbally notify the Department for approval to deviate from this requirement.
10. Boat maintenance or repair activities at the facility shall be prohibited over any surface waters or wetlands. Specifically prohibited shall be any discharges or release to surface waters and wetlands of oils and greases associated with engine and hydraulic repairs or metal based bottom paints associated with hull scraping, cleaning and painting.
11. The accessory docks shall be used for temporary mooring of boats launched and recovered at the boat ramp. No liveaboards are authorized by this permit.
12. No fueling or sewage pumpout facilities are authorized by this permit.
13. The permittee shall install signage at the boat ramp requiring that recovered boats be moved to the parking lot prior to removal of bilge plugs to insure that any discharges are directed into the stormwater treatment system.
14. The permittee shall consult and coordinate with Fort Clinch State Park or District 2 personnel for the placement of the perimeter fence and establishing a vegetative buffer between the boat ramp and park property. The permittee shall verbally notify the Department within 48 hours after an agreement has been reached.



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15. All material cleared from the upland site shall be disposed in an appropriate upland area.

DREDGING

16. The permittee shall submit written documentation and a location map of the final disposal site(s) for all sovereignty submerged lands material dredged from the river. All of the material shall be disposed in an appropriate upland area owned by the county or other public entity and shall be used for public purposes.

MITIGATION

17. Excavation to design grade of the 0.25± acre salt marsh creation area indicated on Figures 4 and 5, Mitigation Plan-Wetland Creation shall commence and be completed within 90 days of the start of any of the permitted activities in wetlands or surface waters. Written notification of the commencement date for the excavation shall be submitted to the Department. The attached "Mitigation Plan" shall be appended as a specific condition of this permit. Specific Condition requirements listed herein shall supersede or modify any requirements contained in the appended mitigation and monitoring plan.

18. Physical barriers or other identifying markings shall be placed along all existing salt marsh areas to prevent incidental encroachments into these areas during excavation of the creation area. The barriers or markings shall remain in place during all excavation activities. The barriers or markings shall be removed within 14 days following completion of the excavation to design grades. However, minor encroachments into the existing salt marsh shall be permitted during excavation to ensure that proper elevations and tidal connections are established. The minor encroachment into the existing salt marsh shall not exceed 5 feet.

19. The material excavated from the creation area shall be disposed at an appropriate upland site.

20. Within 30 days of completion of excavation to design elevations, 'as built' drawings of the creation area shall be completed. The 'as built' drawings shall indicate the dimensions and square footage of the creation area, a typical cross section drawing and contour intervals. The dimensions and square footage shall only include the areas that are designed to be salt marsh. The 'as built' drawings shall be submitted within 14 days after completion of the excavation. The 'as built' drawings shall clearly indicate that the restoration area is tidally inundated and connected to the existing salt marsh of Egans Creek.

21. The creation area shall be allowed to revegetate through natural recruitment of salt marsh species. One (1) year after excavation of the creation area to design grade and yearly thereafter, the permittee shall submit a monitoring report of the area. The monitoring report shall at a minimum contain the following information:

a. Identity of the species naturally recruited in the area and wetland indicator status pursuant to Chapter 62-340, Florida Administrative Code (F.A.C.);



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- b. Percent coverage of the naturally recruited salt marsh species and percent coverage of any upland species and nuisance species using established sampling methods such as Daubenmire (1968), Green (1979), Grieg-Smith (1983) and Mueller-Dombois and Ellenberg (1974). Nuisance species shall be defined as those species of flora which are not listed as obligate or facultative wet species in 62-340, F.A.C. or are listed species but whose characteristics or presence in sufficient number, biomass, or areal extent may reasonably be expected to prevent or unreasonably interfere with the successful establishment of the salt marsh;
- c. Wildlife utilization of the area, if any;
- d. Any problems noted and proposed remedial measures to achieve the success criteria;
- e. Color photographs from fixed photographic stations of the restoration area with the location indicated on a plan view drawing;

The monitoring report shall be submitted to the Department within 14 days and shall continue to be submitted until the success criteria have been met.

22. The salt marsh creation shall be considered successful when all of the following criteria have been continuously met for a period of at least one growing season without requiring remedial measures:

- a. Not less than 0.40 acres of salt marsh are determined by the Department to be a wetland pursuant to Chapter 62-340, F.A.C.;
- b. The salt marsh is tidally inundated and contiguous to the marshes of Egans Creek;
- c. The percent coverage of naturally recruited salt marsh species is $\geq 80\%$ at the end of two (2) years following excavation. The naturally recruited salt marsh species shall comprise species such as but not be limited to Spartina alterniflora, Juncus roemerianus, Borrichia frutescens, Salicornia spp., Batis maritima, Distichlis spicata, and Iva frutescens.
- d. Nuisance vegetation is limited to $\leq 5\%$ of the total vegetative coverage.

23. The creation area shall be determined to be successful when all of the success criteria have been met. The procedures for requesting a success determination and guidelines for the Department's response are provided herein:

- a. The permittee may notify the Department whenever the permittee believes the creation area has met all of the success criteria. The notice shall be sent by certified mail and addressed to the Department.
- b. The notice shall include a copy of the most recent monitoring report and a narrative describing how the reported data support the contention that each of the success criteria have been met. The permittee shall afford Department personnel the opportunity to schedule and conduct sufficient on-site inspections of the creation area to determine whether the success criteria are met. Creation sites may be successful at different times.
- c. Within 120 days of receipt of this notice, the Department shall notify the permittee by certified mail that the Department determined that the creation area has been successfully completed, has not been successfully completed, or cannot be determined at this time. The notification shall identify those elements of the success criteria that have not been met.



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North End Boat Ramp

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d. When the Department notifies the permittee that the creation is successful or if the Department fails to notify the permittee within the time period prescribed by this condition, then the permittee's creation obligation under the terms of the permit shall be deemed satisfied for that particular area.

24. If at the end of the two (2) year period all of the success criteria have not been met, the permittee shall propose and submit a plan outlining remedial actions to be taken to correct those elements of the success criteria not being met. The permittee may submit this plan at any time it believes the criteria will not be met.

25. The permittee shall record a Conservation Easement over salt marsh area labeled as "Wetland Preservation" on Figure 3, Overall Mitigation Plan. **The Conservation Easement shall contain language that clearly states the land encumbered by the easement are only those lands landward of the Mean High Water line.**

The Conservation Easement shall be recorded within 90 days of the commencement of construction. The Conservation Easement shall be in accordance with Section 704.06, Florida Statutes (F.S.) prohibiting all construction including clearing, dredging or filling, except that which is authorized by this permit. The Conservation Easement shall contain provisions as set forth in subsections 1 (a)-(h) of Section 704.06, F.S. as well as provisions indicating that they may be enforced by the Department and may not be amended without the Department's approval. Prior to recording, the Conservation Easement shall be submitted to the Department for review and approval. Following Department approval and within 14 days after recording the Conservation Easement, the permittee shall submit a certified copy of the recorded easement showing the date recorded and the official records and page number.

The Conservation Easement submitted to the Department for review and approval prior to recording shall include the following information:

I. TITLE INFORMATION

1. Proof of ownership as a deed or updated title certificate.
2. Affidavit of lien status
- 3.. If liens on the property exist, subordination/release/joinder agreement.

II. BOUNDARY INFORMATION

1. A copy of the existing survey of the 22-acre parcel.
- 2.. A larger and legible version of Figure 3.



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MANATEE CONDITIONS

26. The permittee shall develop an educational program regarding listed marine species with the assistance of the Bureau of Protected Species Management, and shall be implemented before completion of project construction. The program shall include educational brochures and pamphlets about manatees, sea turtles, and right whales. The permittee shall ensure that the brochures and pamphlets are available at all times within a centralized display. The permittee shall request, in writing, guidance in developing and approving this marine species educational program from the Bureau of Protected Species Management at: 620 South Meridian Street, Tallahassee, FL 32399-1600 (telephone 850-922-4330). A copy of the written request shall be sent to the Department of Environmental Protection Northeast District Office.

27. STANDARD MANATEE CONSTRUCTION CONDITIONS:

The permittee/grantee/lessee shall ensure that:

a. The permittee shall instruct all personnel associated with the project of the potential presence of manatees and the need to avoid collisions with manatees. All construction personnel are responsible for observing water-related activities for the presence of manatee(s).

b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972, The Endangered Species Act of 1973, and the Florida Manatee Sanctuary Act.

c. Siltation barriers shall be made of material in which manatees cannot become entangled, are properly secured, and are regularly monitored to avoid manatee entrapment. Barriers must not block manatee entry to or exist from essential habitat.

d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

e. If manatee(s) are seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure protection of the manatee. These precautions shall include the operation of all moving equipment no closer than 50 feet of a manatee. Operation of any equipment closer than 50 feet to a manatee shall necessitate immediate shutdown of that equipment. Activities will not resume until the manatee(s) has departed the project area of its own volition.

f. Any collision with and/or injury to a manatee shall be reported immediately to the Florida Marine Patrol at 1-800-DIAL FMP (1-800-342-5367). Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-850-232-2580) for north Florida or Vero Beach (1-407-562-3909) in south Florida.



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g. Temporary signs concerning manatees shall be posted prior to and during all construction/dredging activities. All signs are to be removed by the permittee upon completion of the project. A sign measuring at least 3 ft. by 4 ft. which reads *Caution: Manatee Area* will be posted in a location prominently visible to water related construction crews. A second sign should be posted if vessels are associated with the construction, and should be placed visible to the vessel operator. The second sign should be at least 8 1/2" by 11" which reads *Caution: Manatee Habitat. Idle speed is required if operating a vessel in the construction area. All equipment must be shutdown if a manatee comes within 50 feet of operation. Any collision with and/or injury to a manatee shall be reported immediately to the Florida Marine Patrol at 1-800-DIAL FMP (1-800-342-5367). The U.S. Fish and Wildlife Service should also be contacted in Jacksonville (1-904-232-2580) for north Florida or in Vero Beach (1-561-562-3909) for south Florida.*

28. PERMANENT MANATEE PROTECTION SIGNS

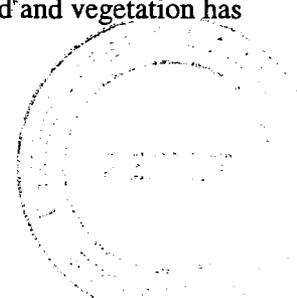
The permittee shall install and maintain a display that provides information on the characteristics of manatees and the potential threat to this endangered species from boat operation. The permittee agrees to install and replace the signs in the event the signs fade or become damaged, and maintain these signs for the life of the facility. The permittee shall install and display signs within 30 days prior to completion of construction. The number, type and procedure for installation should be in accordance with the handout "Permanent Manatee Signs", which can be obtained from the Bureau of Protected Species Management, OES-BPS, 620 S. Meridian Street, Tallahassee, FL 32399-1600 (telephone 850-922-4330).

STORMWATER

I. Construction Phase

1. All construction, operation, and maintenance of the stormwater system shall be as set forth in the plans, specifications, and performance criteria contained in the Department file and approved by this permit. Any deviation from the permitted plans are to be addressed by the department prior to their implementation to determine if a modification to the permit is required.

2. The Permittee is responsible for the selection, implementation, and operation of all erosion and sediment controls on-site and to prevent violations of water quality standards in Chapters 62-3 and 62-4, 40C-4, 40C-40, 40C-41, 40C-42, F.A.C., and Chapters 373 and 403, F.S. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land Development Manual: A guide to Sound Land and Water Management (DER, 1988). All wetland areas or water bodies which are outside of the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring, or excess turbidity and dewatering. Turbidity barriers shall be installed at all locations where the possibility of transferring suspended solids into the receiving water body exists due to the proposed work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. The Permittee shall be responsible for the removal of the barriers.



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3. The Permittee must obtain a standard general or an individual permit pursuant to 40C-4, 40C-40, 40C-41 and 40C-42, F.A.C. prior to beginning construction of any work not authorized by this permit.
4. The Permittee shall provide the Northeast District Office of DEP with prior written notice within 30 days of the date the work authorized by this permit is to commence.
5. If any other regulatory agency should require revisions or modification to the permitted project, the Department is to be notified of the revisions prior to any implementation of such revisions so that a determination can be made whether a permit modification is required.
6. At a minimum, all retention and detention storage areas must be excavated to rough grade prior to or concurrent with building construction or placement of impervious surface within the area served by those facilities. To prevent reduction in storage volume and percolation rates, all accumulated sediment must be removed from the storage area prior to final grading and stabilization. All disturbed areas, swales, retention/detention basin side slopes, and roadside slopes must be sodded or seeded and mulched within 30 days following their completion and a substantial vegetation cover must be established within 60 days of seeding. Erosion preventive measures must be taken to ensure establishment of vegetative cover. All critical slopes immediately above the detention/retention basin must be seeded, mulched, or sodded as required for preventing sedimentation or clogging of the detention/retention basin. If littoral zone is used, eighty-percent coverage of the littoral zone by suitable aquatic plants is required within the first twenty-four (24) months of completion of the system. Annual replanting shall be required for littoral areas where aquatic vegetation has not become established or if vegetative cover falls below 80% coverage.

Filter Drains (if used in project)

7. During construction, every effort should be made to limit the parent soil and debris from entering the filter median. Filtration system should utilize filter fabric to prevent the filter material from moving into and clogging the perforated pipe. The filter media should have pore species large enough to provide sufficient flow capacity so that the permeability of the filter is equal to or greater than the surrounding soil. The design shall ensure that the particles within the filter do not move. When sand or other fine textured aggregate other than natural soil is used for filtration, the filter material should be of quality sufficient to satisfy the following requirements:
 - (a) Washed (less than 1- percent silt, clay and organic matter) unless filter cloth is used which is suitable to retain the silt, clay and organic matter within the filter. Calcium carbonate aggregate is not an acceptable filter media.
 - (b) Uniformity coefficient of 1.5 or greater but not more than 4.0.
 - (c) Effective grain size of 0.20 to 0.55 millimeters in diameter.

These criteria are not intended to preclude the use of multi-layered filters nor the use of materials to increase ion exchange, precipitation or the pollutant absorption capacity of the filter.

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8. Department of Environmental Protection staff, upon proper identification, shall have permission to enter, inspect, and observe the system to insure conformity with the plans and specifications approved by this permit.

9. This permit for construction will expire five (5) years from the date of issuance. If construction is not completed within the specified time period, then pursuant to F.A.C. Rule 62-4.090, sixty (60) days prior to the expiration date of this permit, the Permittee shall apply for a renewal of the permit on forms and in a manner prescribed by the Department.

**II. Certification of Stormwater System
Construction Phase Certification & Maintenance Entity Responsibility**

FOR ALL FACILITIES

10. Construction of the stormwater management system must be complete and all disturbed areas stabilized in accordance with permitted plans and conditions prior to any of the following: issuance of the first certificate of occupancy; initiation of intended use of the infrastructure; or transfer of responsibility of maintenance of the system to a local government or other responsible entity.

Solid Waste Facilities (When Applicable)

No solid waste shall be accepted at this facility until construction has been completed, Certification of Completion has been submitted to the Department and the constructed facility has been inspected by Department personnel and found to be complete.

Domestic Waste Facilities (When Applicable)

Operation of the wastewater treatment plant cannot begin until the construction of the stormwater system has been completed, certification of completion signed and sealed by a Florida Professional Engineer has been submitted to the Department and the constructed facility has been inspected by Department personnel and the system deemed in compliance with the permit and found to be complete.

11. If this project is to be constructed in phases and subsequent phases will use the same stormwater management system as the initial phase(s), the permittee shall accept the responsibility for the operation and maintenance of the stormwater management system for future phases.

12. The operation phase of the stormwater management system shall not become effective until the following criteria have been met:

- (a) Within thirty (30) days after completion of construction, permittee shall submit a signed and sealed certification by an appropriate registered Florida professional engineer that the system has been constructed and is ready for inspection.



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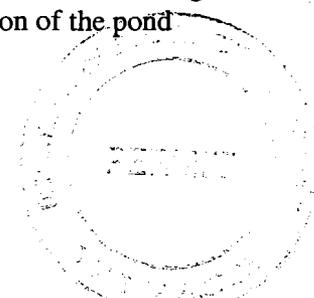
- (b) The registered professional engineer shall certify that the system has been constructed substantially in accordance with approved plans and specifications; or any deviations from the plans will not prevent system from functioning in compliance with appropriate regulation.
- (c) As-built drawings are to be furnished and revised accordingly to reflect any changes made during construction. The following information, at a minimum, shall be verified on the as-built drawings:
 - 1. Dimensions and elevations of all discharge structures.
 - 2. Locations, dimensions, and elevation of all underdrain systems including cleanouts, connections to control structures, and points of discharge to receiving waters.
 - 3. Dimensions, elevations, contours or cross sections of all treatment storage areas.
 - 4. Dimensions, elevations, contours, final grades to determine flow direction and runoff.
 - 5. Establishment of erosion control vegetative cover in critical slopes above the detention/retention ponds.
- (d) The permit will be converted from a construction permit to an operation permit once the project is determined to be in compliance with the permitted plans and appropriate maintenance entity has accepted responsibility for maintenance of the stormwater system.

13. The Department must be notified, in writing, within 30 days of any sale, conveyance, or other transfer of a permitted system or facility or within 30 days of any transfer of ownership or control of the real property at which the permitted system or facility is located. Transfer of this permit shall be in accordance with the provisions of Chapter 373 F.S. and Chapter 40C-4, 40C-40, 40C-41, and 40C-42, F.A.C. All terms and conditions of this permit shall be binding upon the transferee.

III. Maintenance Phase – Maintenance Requirements

14. The following operational maintenance activities shall be performed on all permitted systems on a regular basis or as needed:

- (a) Removal of trash and debris.
- (b) Inspection of inlets and outlets.
- (c) Removal of sediments when the storage volume or conveyance capacity of the system is below design level or when the system is rendered ineffective on account of clogging/sedimentation of the pond bottoms.
- (d) Stabilization and restoration of eroded areas.



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- (e) Mowing and removal of grass clippings.
- (f) Aeration, tilling or replacement of topsoil as needed to restore percolation capability of the system.
- (g) Replanting if vegetative cover in littoral zones falls below 80% coverage.

The stormwater management system shall be inspected after each heavy rain, but at a minimum once per quarter.

Filter Drains (if used in project)

The filter drain system shall be checked after each heavy rain, but at a minimum, it shall be inspected once a month to insure drawdown requirements are being met. Rodent guards shall be checked to insure they are in place, clear and functional. Upon inspection of the filtration system each month, when necessary, the filtration system is to be back flushed to remove debris and silt that may have accumulated. This activity is to be conducted under the supervision of a professional engineer registered in the State of Florida. Filter material surrounding the filter drain is to be inspected monthly. Cleaning of filter material may require complete removal and cleaning and/or replacement of top 12 inches or more of the filter material.

Outfall Ditches

Outfall ditches must be inspected monthly, with the removal of trash, debris, silt and vegetation when necessary to insure proper drainage of stormwater ponds.

15. The permittee is required to provide for periodic inspections of the stormwater management system. The permittee shall submit reports to the Department certifying that the stormwater management system is operating as designed. The reports shall be submitted to the Department as follows:

- (a) Each inspection shall be documented and kept on file at the facility office. Each inspection report shall contain, as a minimum; date, name of inspector, as found condition of major system features, and nature and extent of maintenance/repair performed.
- (b) Inspection reports for retention, underdrain, wet detention (with/without littoral shelf), and swales shall be submitted one year after completion of construction and every year thereafter. A registered Florida Professional Engineer must sign and seal the report certifying the system is functioning as designed.
- (c) Inspection reports for filtration treatment systems and pumped systems shall be submitted one year after completion of construction and every year thereafter. A registered Florida Professional Engineer must sign and seal the report certifying the filtration treatment system and/or pumped system is operating as designed.

The Reports shall be submitted to the Department's Stormwater Engineer at 7825 Baymeadows Way, Suite B-200, Jacksonville, FL 32256-7590.

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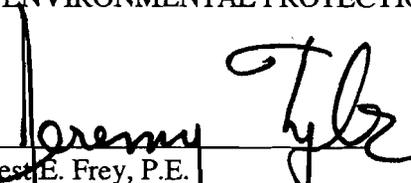
16. If stormwater management system is not functioning as designed and permitted, operational maintenance must be performed immediately to restore the system. If operational maintenance measures are insufficient to enable the system to meet the design standards, the permittee must either replace the system or construct an alternative design. The permittee must submit a permit modification application within sixty (60) days of the date the system was determined to be design deficient.

17. The Permittee shall immediately notify the Department by telephone whenever a serious problem occurs at this facility. During regular business hours notification shall be made to the Northeast District Office at (904) 807-3351. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number (904) 488-1320. This number is for emergencies only. Within 7 days of telephone notification, the Permittee shall submit to the Department a written report explaining the extent of the problem, its cause, and what actions have been or will be taken to correct the problem.

Executed in Jacksonville, Florida.

Issued this 29th day of , June, 2002.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

for 
Ernest E. Frey, P.E.
Director of District Management
Submerged Lands and
Environmental Resources Program

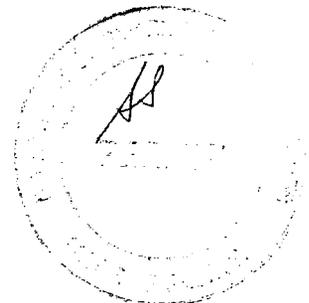
Copy to:

ACOE, Jacksonville
DEP Office of General Counsel, Lucinda Roberts
FFWCC, Bureau of Protected Species Management, Carol Knox
Susie Hetrick, DEP Division of Recreation and Parks

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 6/27/02 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED on this date, pursuant to S120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.
Karla Stratton 6/27/02
Clerk Date



The wetland creation area will be cleared of existing vegetation and excavated to the desired elevations (see drawings). The upland fringe area will be graded to an

A Wetland Creation

III MITIGATION PLAN

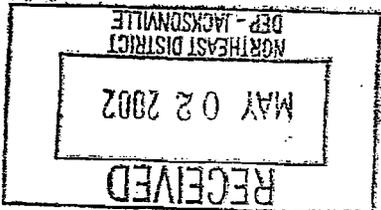
The applicant proposes to preserve approximately 22 acres of high quality salt marsh located on the north side of Egan's Creek between the existing Pogy Plant and the 14th Street bridge. Wetland creation will be provided on the northern upland fringe of this marsh near the 14th Street bridge. The creation area measures approximately 0.25 acre including slopes. Applying the agreed upon mitigation ratios of 2:1 to the creation area, the impacts are covered by the wetland creation alone. However, the applicant has agreed to place a conservation easement over the 22 acres of salt marsh in addition. A conservation easement, protecting the area in perpetuity but allowing boardwalks and observation platforms in the future, will be recorded in the local record of deeds. The additional 22 acres will more than compensate for the remaining impact.

II. MITIGATION RATIOS

Nassau County Public Works has proposed to build a public access boat ramp located on the Amelia River on the northwest end of Amelia Island, Nassau County, Florida. The boat ramp will be accessed from Pogy Place Road, north of Egan's Creek. The proposed boat ramp will include temporary mooring platforms, parking, access drive, and structures required for a stormwater management system. The boat ramp structure will impact 0.129 acre of salt marsh fringe wetland located along the shoreline of the Amelia River. This wetland area comprises a community of smooth cordgrass (*Spartina alterniflora*), salt cordgrass (*S. patens*), glasswort (*Salicornia virginica*), salt grass (*Distichlis spicata*), sea blight (*Suaeda maritima*), and salt wort (*Batis maritima*). The Florida Department of Environmental Protection (DEP) has determined that the wetland fringe along the shoreline is classified as Resource Protection Area 1 and 2, assuming the highest quality wetland communities within an aquatic preserve. DEP policy requires at least a 2:1 ratio of wetland creation to wetland impact in Resource Protection Areas 1 and 2. The following is a description and proposed design of a mitigation plan that includes the combination of preservation of high quality estuarine wetlands and the creation of salt marsh wetlands in one contiguous area located on the north side of Egan's Creek.

I. INTRODUCTION

NORTH END BOAT RAMP
AMELIA ISLAND, NASSAU COUNTY, FLORIDA
MITIGATION PLAN
DEP File No. 45-183509-001-ES



elevation that mimics the adjacent tidal marsh. The final elevation will allow normal tidal flooding at high tides. The slope near the Pogey Place Road right-of-way will be 3:1, and will require stabilization. This slope will be planted with native herbaceous and/or shrub plant species tolerant of extreme tidal cycles, storm flooding, and salt shear. Such species include *Spartina bakerii*, *Spartina patens*, yaupon holly, live oak, and saw palmetto. Seeding with annual grasses may also be necessary.

To achieve the appropriate elevations allowing uninterrupted tidal flushing, some temporary impacts to the salt marsh wetlands will be necessary. Because the jurisdictional wetland boundary is normally at a higher elevation than the target marsh elevation, a berm of higher elevation would be formed around the creation area periphery if temporary wetland impacts were not allowed. The target elevation will be obtained and blended into the surrounding salt marsh at the discretion of the grading contractor and approved by the appropriate environmental consultant/supervisor.

During the topographic survey, a benchmark was set on the south edge of the pavement of Pogey Place Road, near the northwest corner of the creation area. This benchmark is marked with a nail and metal marker driven into the pavement and further marked with orange paint. The target elevation to reach is approximately 10.5 feet below the benchmark set on Pogey Place Road. This benchmark was not surveyed in reference to any known survey elevation marker and is only relative to elevations measured on the creation site as indicated on figures 4 and 5.

The construction of the creation area will be monitored daily by LG² Environmental Solutions, Inc. (LG²ES). Once construction is completed, temporary sediment and erosion control measures will be implemented on the slope, (hay with grass seed, or other similar method). The creation area will be observed several times during typical tidal cycles to insure normal intertidal hydrology is occurring. Should the post-construction monitoring indicate that modifications be required, Florida DEP will be notified and the modifications will be completed in order to reach the desired results. The creation area will be allowed to vegetate by natural recruitment.

B. Wetland Preservation

Approximately 22 acres of salt marsh along the north side of Egans Creek, bounded by the Pogey Plant property on the west, Pogey Place Road on the north, and the 14th Street bridge on east, will be placed under a conservation easement and recorded in the Nassau County Record of Deeds. The conservation easement will include typical language to protect the area in perpetuity with minor exceptions. The main exception will include the allowance of Nassau County to construct boardwalks and observation platforms in the conservation area for public view and enjoyment.

RECEIVED

NOV 10 2002

IV. MONITORING AND MAINTENANCE PROGRAM

Monitoring of the created wetland will occur on a semiannual basis for three years following implementation of the Mitigation Plan. Written reports of each monitoring event will be submitted to the permitting agency within 30 days of the second semiannual monitoring event of each year.

Subsequent to the grading and approval of the creation area, transects will be established within the area to provide a basis for the observation of future growth of the planted and recruited species (figure 6). Transects will be designed to sample herbaceous species. Belt transects will be established from northeast to southwest across the creation area sufficient to cover approximately 20% of the area. The end of each belt transect will be marked for future location. Each transect will be examined in general during each monitoring event, recording number of overall conditions, plant growth, clumping characteristics. Percent cover will be estimated and species composition will be noted. Quadrata stations will be established randomly within each transect for more detailed sampling of herbaceous species. Each quadrata station will use a polyvinyl chloride (PVC) pipe fixed into the ground to serve as a center point for placement of a one (1) meter quadrata during sampling events.

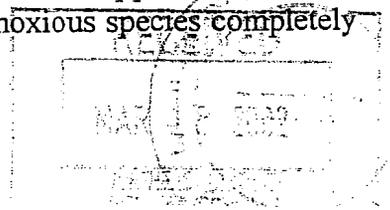
Photographic stations will be established at representative locations at each transect. The photographs taken from each station will give an overview of the general condition of each area. Each photographic station will be marked with a fixed polyvinyl chloride (PVC) pipe.

During each monitoring event, percent aerial coverage of both planted and volunteer herbaceous and shrub species will be made by visual observation and photographic record. Establishment and survivability of the recruited desirable species will be used as an indicator of appropriate hydrologic conditions of the created wetland. Additionally, estimates of percent cover of undesirable species will be taken during each monitoring event. Should recruitment of desired species not occur in some areas, a brief summary of the possible cause of the deficiency and the actions taken will be provided to the permitting agency. Records of any significant erosional/depositional problem areas will be noted during each monitoring event and corrective action to repair the damage and control any further sedimentation will be taken immediately.

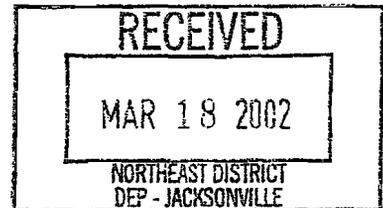
Observation of wildlife use will be documented. This will include the presence of any animal species and evidence of their presence such as tracks, scat, burrows, etc.

V. CONTINGENCY PLAN

The created wetlands will be maintained quarterly to ensure less than 20% coverage of nuisance or noxious species. Should the created or enhanced wetlands support more than 20% coverage of either nuisance or noxious species during any of the monitoring or maintenance events, these species will be removed or treated with an approved herbicide to control their recurrence. Additionally, should nuisance or noxious species completely



out-compete the planted species or should excessive mortality of herbaceous species become evident, the applicant will plant the affected areas within the mitigation area with appropriate species. If such actions are taken, the permitting agency will be notified within 15 days of the work.

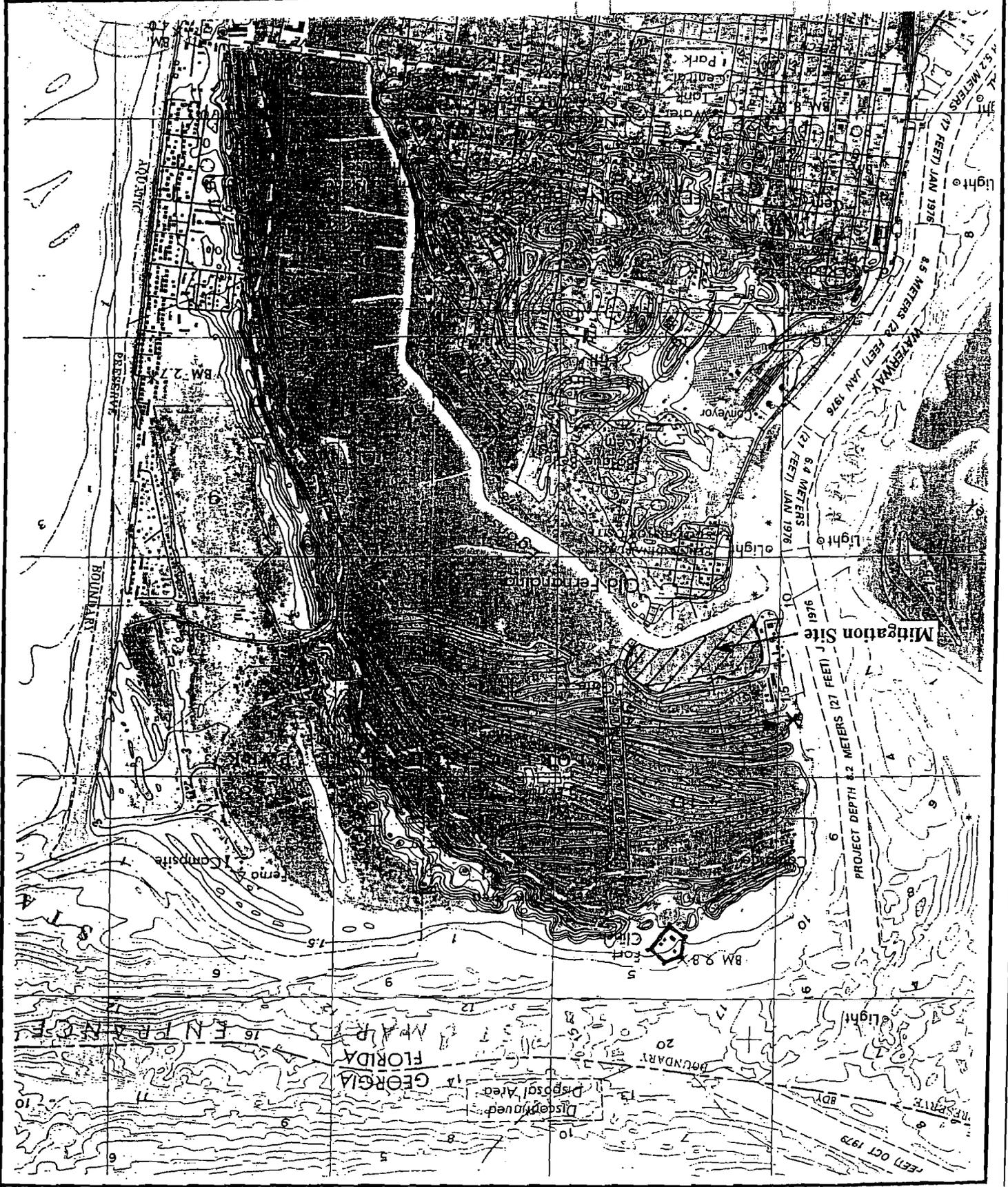


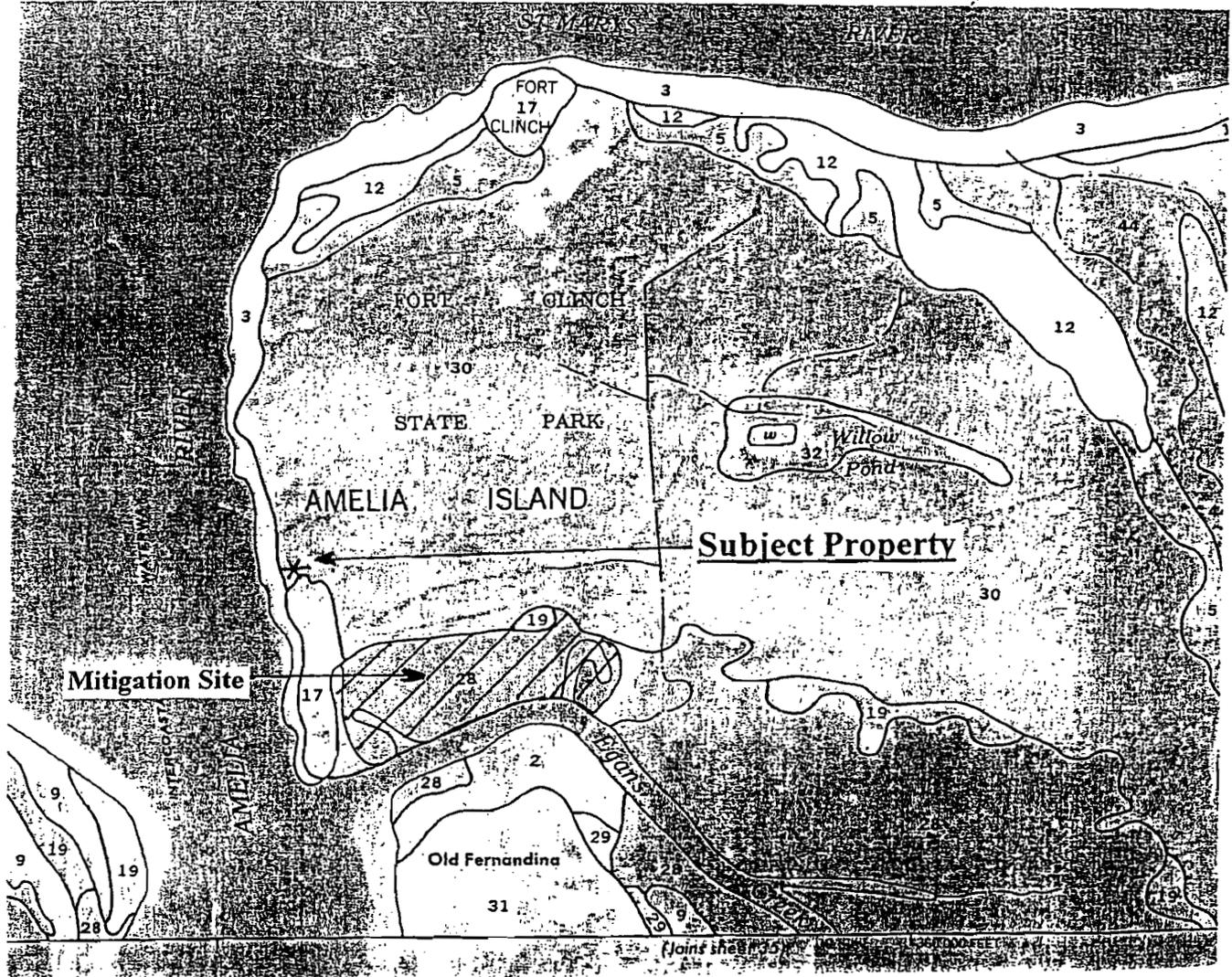


ENVIRONMENTAL SOLUTIONS, INC.
MAR 18 2002

Fernandina Beach Fl.
7.5' USGS Quadrangle
Northend Boat Ramp Mitigation
Amelia Island, Florida

Project No: 99004
Scale: 1"=200'
Date: 2/27/2002
Figure: 1





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MAR 18 2002

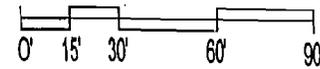
NORTHEAST DISTRICT
DEP - JACKSONVILLE



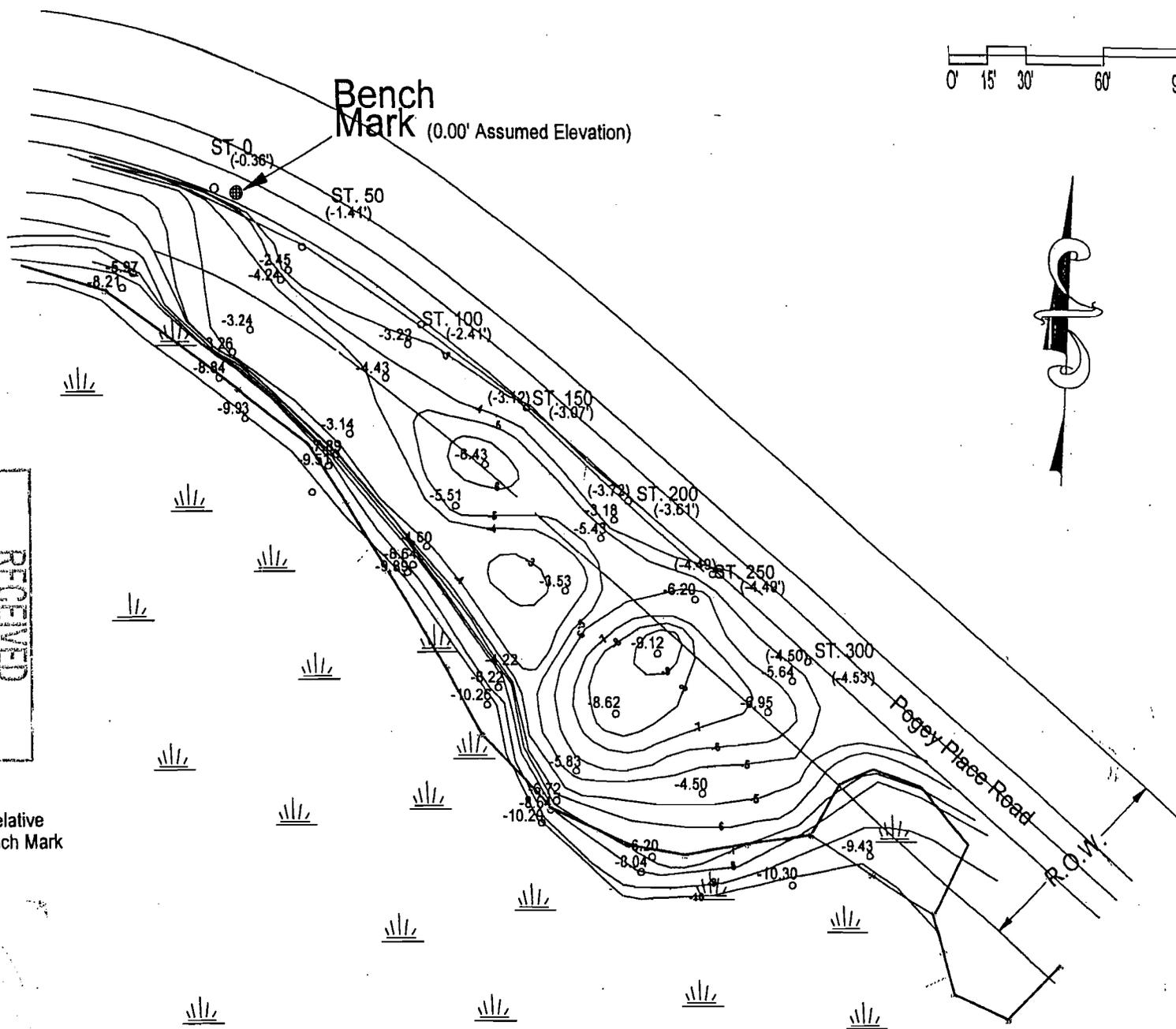
ENVIRONMENTAL SOLUTIONS, INC.

Soils Map
SCS Nassau County Soil Survey
Northend Boat Ramp Mitigation
Amelia Island, Florida

Figure:	2
Date:	2/27/2002
Scale:	1"=1333'
Project No:	99004



Bench Mark (0.00' Assumed Elevation)



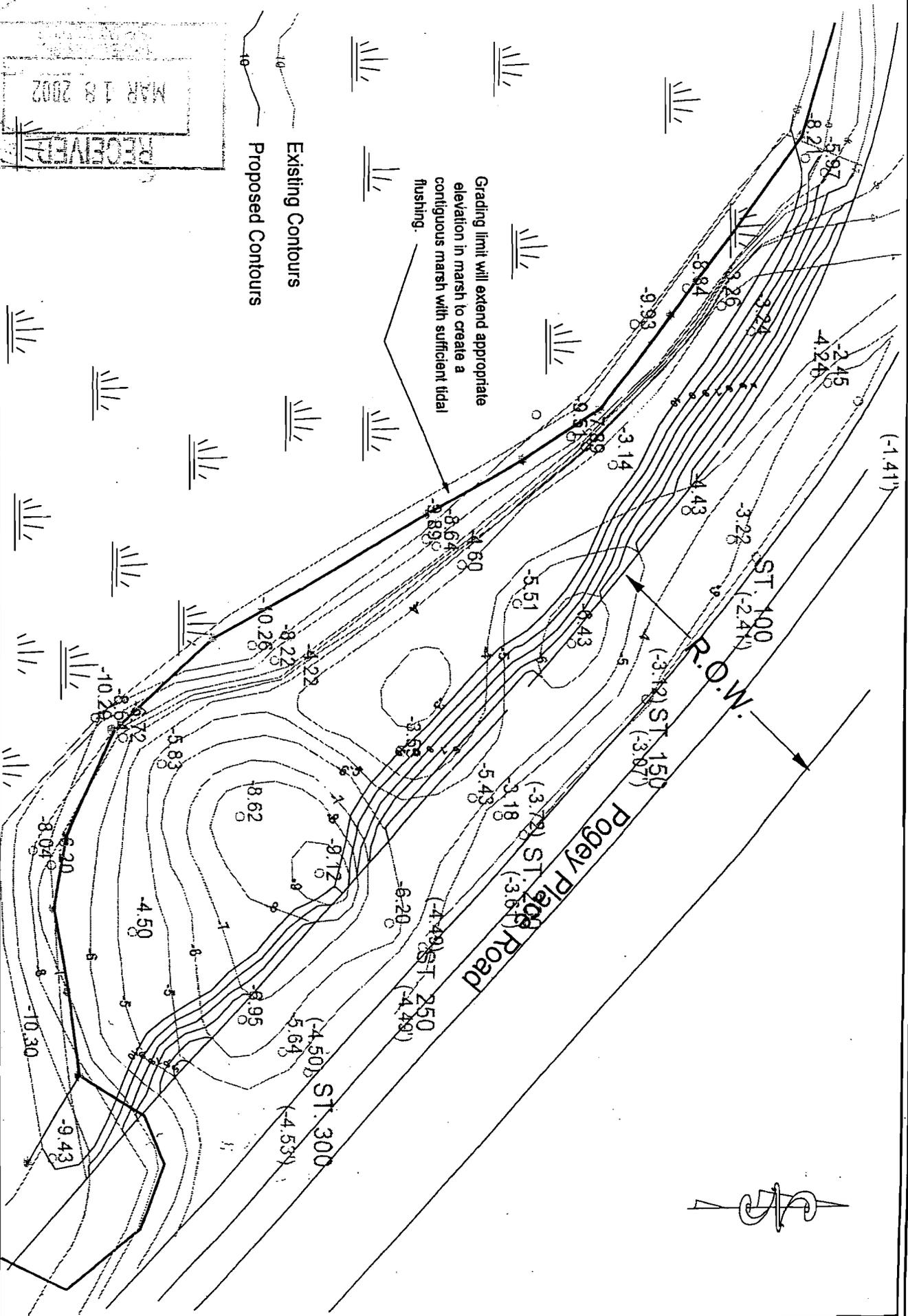
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All Elevations Are Relative to the Assumed Bench Mark Elevation of 0.00'



**North End Boat Ramp
Mitigation Plan-Wetland Creation
Amelia Island, Nassau County
Existing Site Conditions**

Figure: 4
Date: 2/23/02
Scale: 1"=60'
Project Number: 99004

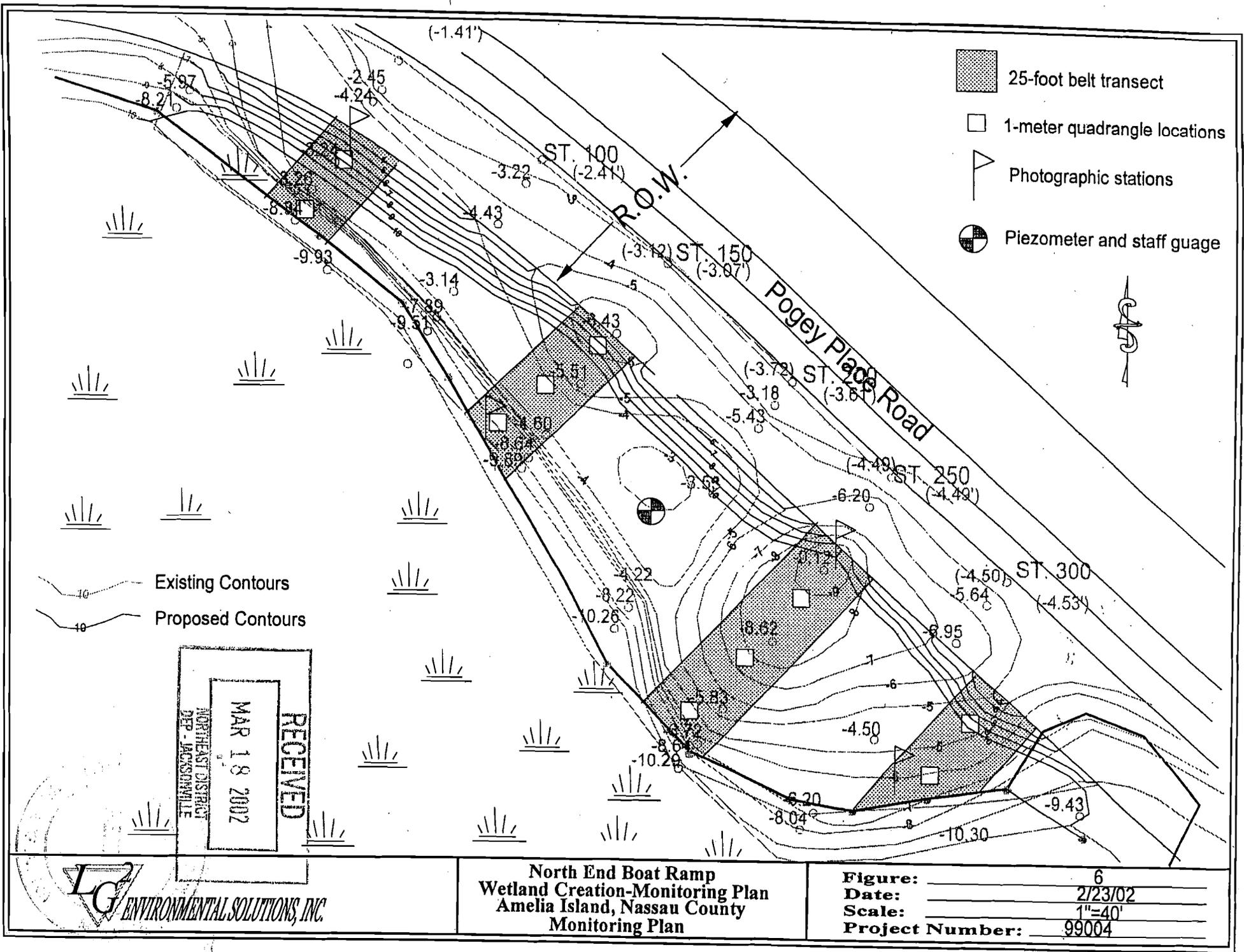


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North End Boat Ramp
Mitigation Plan-Wetland Creation
Amelia Island, Nassau County
Existing Site Conditions

Figure: 5
Date: 2/23/02
Scale: 1"=40'
Project Number: 99004



**North End Boat Ramp
 Wetland Creation-Monitoring Plan
 Amelia Island, Nassau County
 Monitoring Plan**

Figure: 6
Date: 2/23/02
Scale: 1"=40'
Project Number: 99004