DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
PANAMA CITY REGULATORY OFFICE
475 HARRISON AVENUE, SUITE 202
PANAMA CITY, FLORIDA 32401-2731

REPLY TO
ATTENTION OF

Regulatory Division
North Permits Branch
Panama City Regulatory Office
199802509 (IP-DG)

October 19, 1998

Florida Department of Transportation
c/o Mr. Frank Roberts
P.O. Box 607
Chipley, Florida 32428

Dear Mr. Roberts:

We are pleased to enclose a Department of the Army permit for your proposed fill, and a Notice of Authorization which should be displayed at the construction site. When you begin work, you must notify Mr. Doug Gilmore as the District Engineer's representative at the Panama City Regulatory Office, of:

a. The date work starts,

b. The date work stops and starts if work is suspended more than a week, and

c. The date work is completed.

Mr. Gilmore is responsible for inspections to determine that permit conditions are strictly adhered to. He can be contacted by writing to the letterhead address or telephone 850-763-0717, ext. 26. 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,

for Richard K. Holden
John R. Hall
Chief, Regulatory Division

Enclosures

Copy Furnished: (permit w/plans)
DEP, SLERP, Panama City
FWS, Panama City
USCG, New Orleans
CESAJ-RD-E(Mike Patrick)

This notice of authorization must be conspicuously displayed at the site of work

United States Army Corps of Engineers
Expires October 7, 2003

A permit to place fill material in 3.21 acres of wetlands adjacent to the Choctawhatchee River, Section 3, Township 3 North, Range 16 West, Holmes and Washington Counties, Florida has been issued to Florida Department of Transportation, on October 7, 1998
Address of Permittee: P.O. Box 607, Chipley, Florida 32428

199802509 (IP-DG)

for Richard V. Holden

Joe R. Miller
Colonel, U.S. Army
District Engineer

DEPARTMENT OF THE ARMY PERMIT

Permittee: Florida Department of Transportation

Permit No: 199802509(IP-DG)

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

NOTE: The term "you" and its derivatives, as used in this permit, means 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 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: to place fill material in 3.21 acres of adjacent wetlands, in conjunction with the replacement and realignment of the bridge and causeway on State Road 10 over the Choctawhatchee River in Holmes and Washington Counties. The new bridge will be 2,565 feet in length and 38 feet in width. The existing bridge and causeway will be removed to restore 1.0 acre of wetland floodplain elevations. The work is to be completed in accordance with the attached plans numbered 199802509(IP-DG) on 8 sheets dated June 29, 1998.

Project Location: The project site is located in floodplain wetlands adjacent to the Choctawhatchee River in Section 3, Township 3 North, Range 16 West, Holmes and Washington Counties, Florida.

General Conditions:

1. The time limit for completing the work authorized ends on October 7, 2003. 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 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 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:

1. To minimize potential impacts to migrating or spawning Gulf sturgeon, no causeway fill removal or fill placement in the wetlands or between the river banks shall occur during the months of March, April and May of each year during the life of the permit.

2. Immediately upon completion of construction of the new bridge and causeway, (except during the months of March, April and May of each year during the life of the permit), the 1.0 acre existing causeway will be removed down to adjacent wetland floodplain elevations and be allowed to revegetate naturally.

3. The mitigation work described in the Regional Mitigation Plan(RMP) will be completed within 18 months following issuance of the Corps permit. Monitoring of the work will be accomplished annually for five years following hydrologic restoration. The RMP titled "Proposed Mitigation Project for Upper Choctawhatchee River Floodplain, Sites No. 3,7,15-17", is enclosed and consists of pages 1 thru 6, Figures 1 thru 12, and Tables 1 and 2.

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).

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

( ) 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, or local authorizations 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 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.

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.

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

Frank Roberts 10/09/98
(PERMITTEE) (DATE)

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

for Richard V. Holdun 19 October 1998
(DISTRICT ENGINEER) (DATE)
Joe R. Miller
Colonel, U.S. Army

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. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.

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 and mail to the U.S Army Corps of Engineers, Panama City Regulatory Field Office, 475 Harrison Avenue, Suite 202, Panama City, FL 32401.

_____ _____
(TRANSFEREE-SIGNATURE) (SUBDIVISION)

_____ _____ _____
(DATE) (LOT) (BLOCK)

_____
(NAME-PRINTED)

_____
(MAILING ADDRESS)

_____
(CITY, STATE, AND ZIP CODE)

Applicant: Fla. D.O.T.
CE Appl. #: 199802509 (IP-DG)
Date: June 29, 1998
Sheet: 1 of 8

THIS CONTRACT PLAN SET INCLUDES

ROADWAY PLANS
SUMMARY OF PAY ITEMS (3 SHEETS)
SIGNING AND PAVEMENT MARKING PLANS
BRIDGE PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT SET OF PLANS

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
4	SUMMARY OF DRAINAGE STRUCTURES
5	GENERAL NOTES
6-15	ROADWAY PLAN-PROFILES
16	DRAINAGE STRUCTURES
17-18	SPECIAL PROFILES
19-34	CROSS SECTIONS
35-39	TRAFFIC CONTROL SHEETS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY

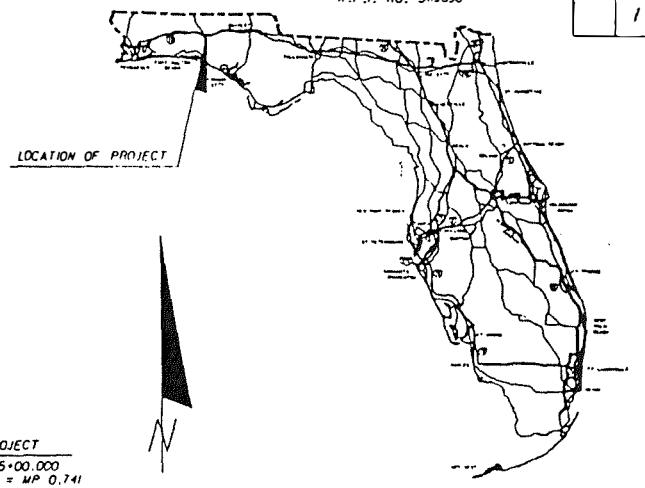
STATE PROJECT NO. 61010-3529

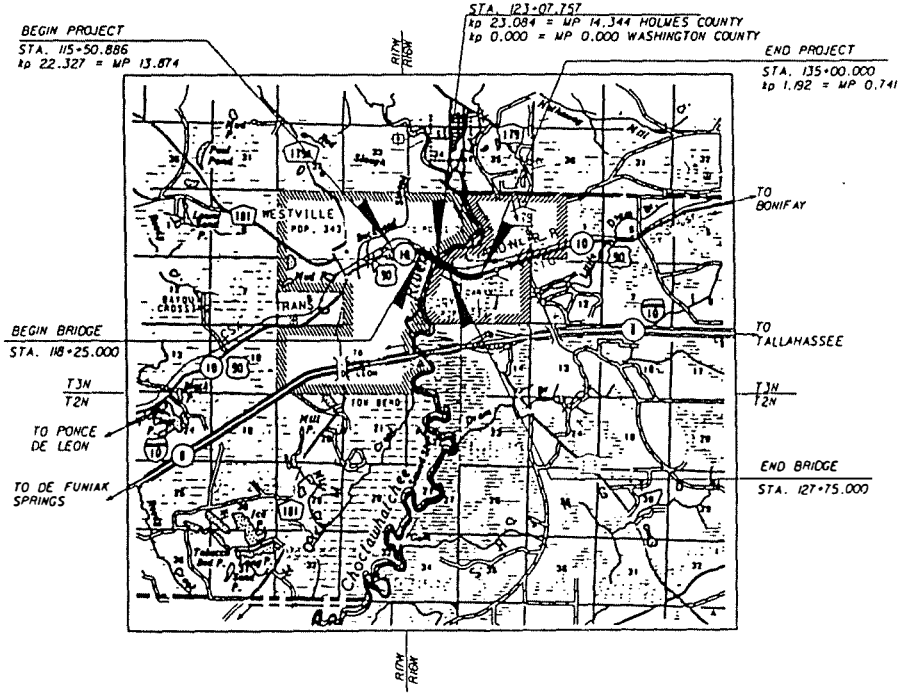
WASHINGTON COUNTY

STATE ROAD NO. 10 (US 90)

W.P.I. NO. 3119698

FISCAL YEAR | SHEET NO. 1





ROADWAY PLANS
ENGINEER OF RECORD

J. BRENT RAWSON, P.E.
700 S. PALAFOX STREET, STE. 400
PENSACOLA, FLORIDA 32501
(850) 432-5900

VENDOR NO. 4200658

PLANS PREPARED BY

HDR

HDR ENGINEERING, INC.
700 S. PALAFOX STREET, STE. 400
PENSACOLA, FLORIDA 32501
(850) 432-5900

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (BOOKLET DATED JANUARY, 1996).

REVISIONS

LENGTH OF PROJECT	METERS
ROADWAY	999.114
BRIDGES	950.000
NET LENGTH OF PROJ.	1949.114
EXCEPTIONS	

REVISIONS

DATE	BY	DESCRIPTION

NOTE:

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1996 SUPPLEMENTS AND SPECIAL PROVISIONS THERETO AS NOTED IN THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.

THIS IS A WORK UNIT PROJECT

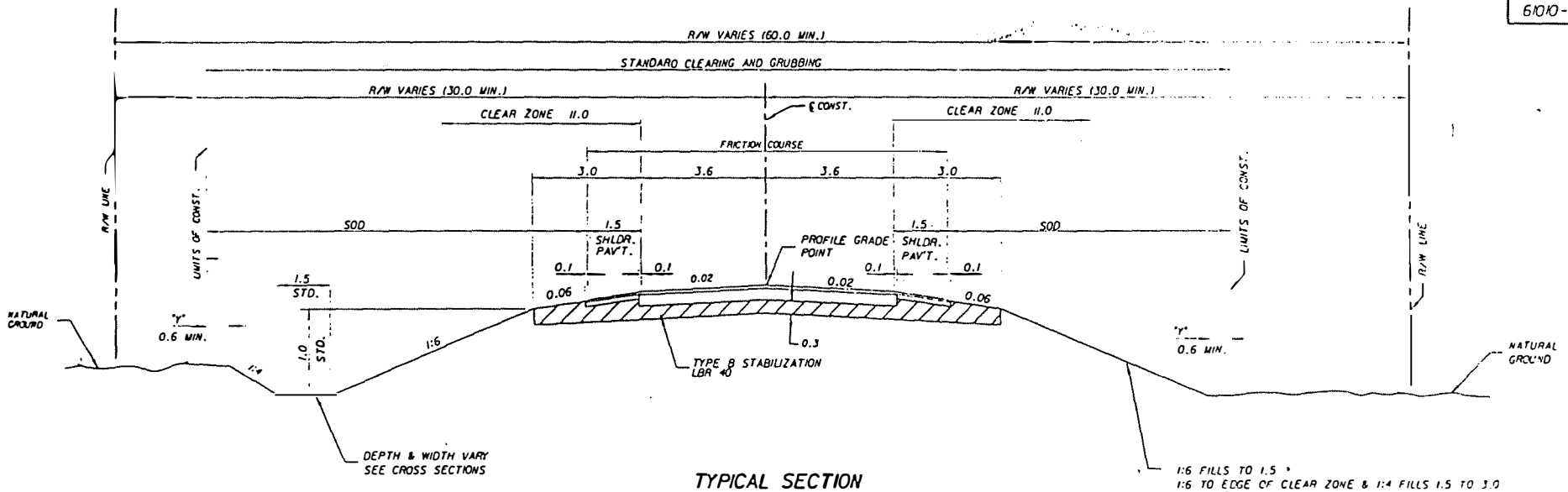
PROJECT DESCRIPTION: SR10 (US 90) CHOCTAWHATCHEE RIVER BRIDGE AND APPROACHES

ROADWAY PLANS

ENGINEER OF

Applicant: Fla. D.O.T.
CE Appl. #: 199802509 (IP-DG)
Date: June 29, 1998
Sheet: 2 of 8

STATE PROJ. NO.	SHEET NO.
61010-3529	2



TYPICAL SECTION
SR 10
STA. 115+50.886 TO STA. 118+25.000
STA. 118+25.000 TO STA. 127+75.000 (BRIDGE EXCEPTION)
STA. 127+75.000 TO STA. 135+00.000

"Y" THE AREA DISTURBED BY CONSTRUCTION VARIES

TRAFFIC DATA

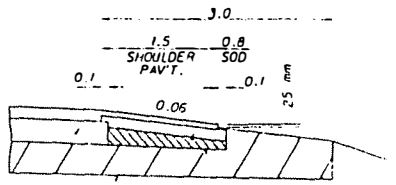
CURRENT YEAR ESTIMATE = 1993 AADT = 3800
OPENING YEAR ESTIMATE = 2000 AADT = 4650
DESIGN YEAR ESTIMATE = 2020 AADT = 7650
K = 13.9% D = 56% T = 8% (24 HOUR)
DESIGN HOUR T = 4%
DESIGN HOUR TIMEDI = 2%
DESIGN HOUR TIMEAVTI = 2%
DESIGN SPEED = 70mm/h

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 WITH
TYPE S STRUCTURAL COURSE (60 mm) AND
FRICTION COURSE FC-3 (25 mm) (RUBBER)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1 WITH
TYPE S STRUCTURAL COURSE (30 mm) AND
FRICTIONAL COURSE FC-3 (25 mm) (RUBBER)

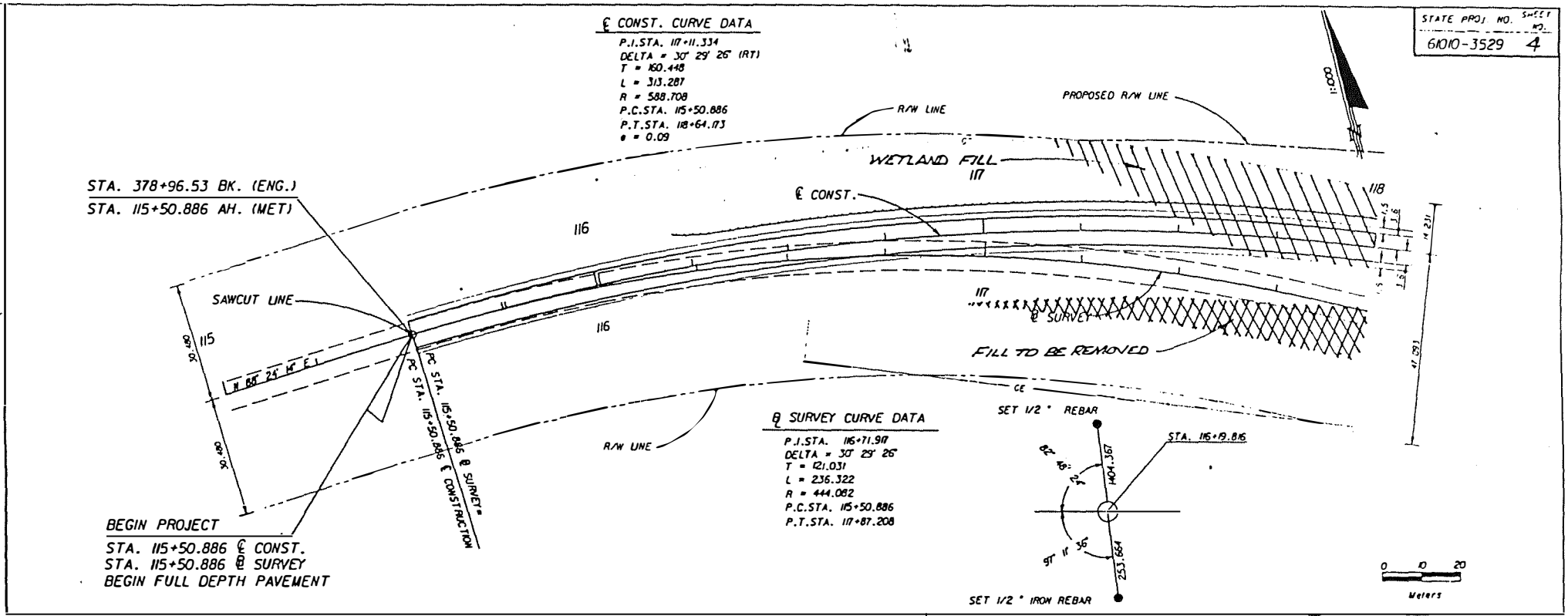


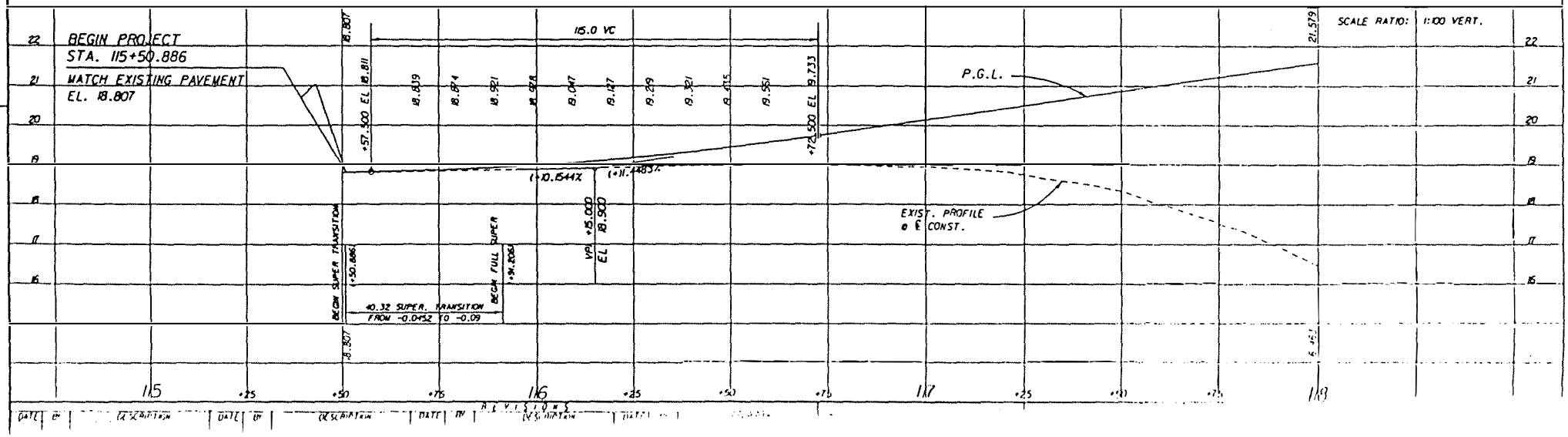
OPTIONAL BASE
TYPE B STABILIZATION
OPTIONAL BASE

AT THE CONTRACTORS OPTION THIS AREA MAY BE CONSTRUCTED OF OPTIONAL BASE MATERIAL AT NO ADDITIONAL COMPENSATION.

SHOULDER PAVEMENT DETAIL

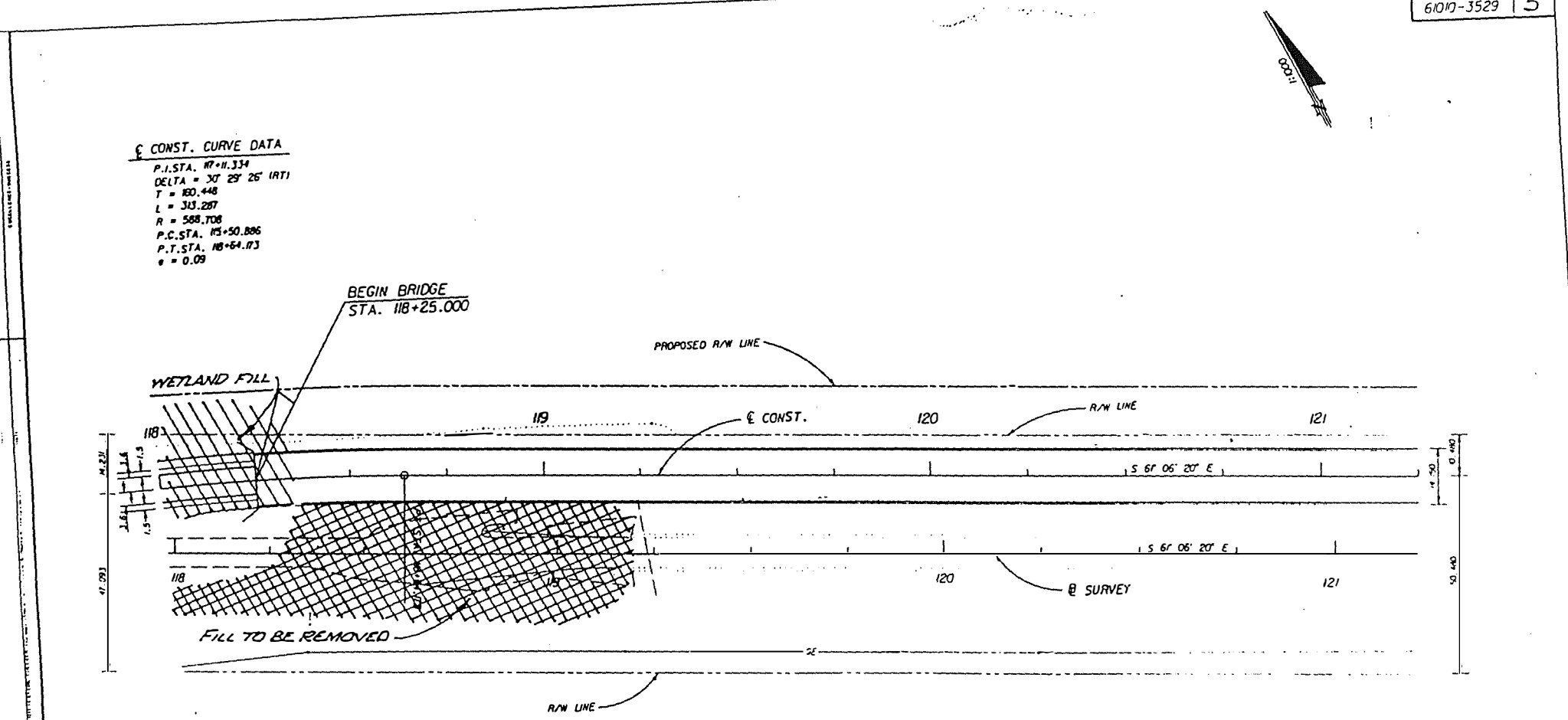
Applicant: Fla. D.O.T.
CE Appl. #: 199802509 (IP-DG)
Date: June 29, 1998
Sheet: 3 of 8



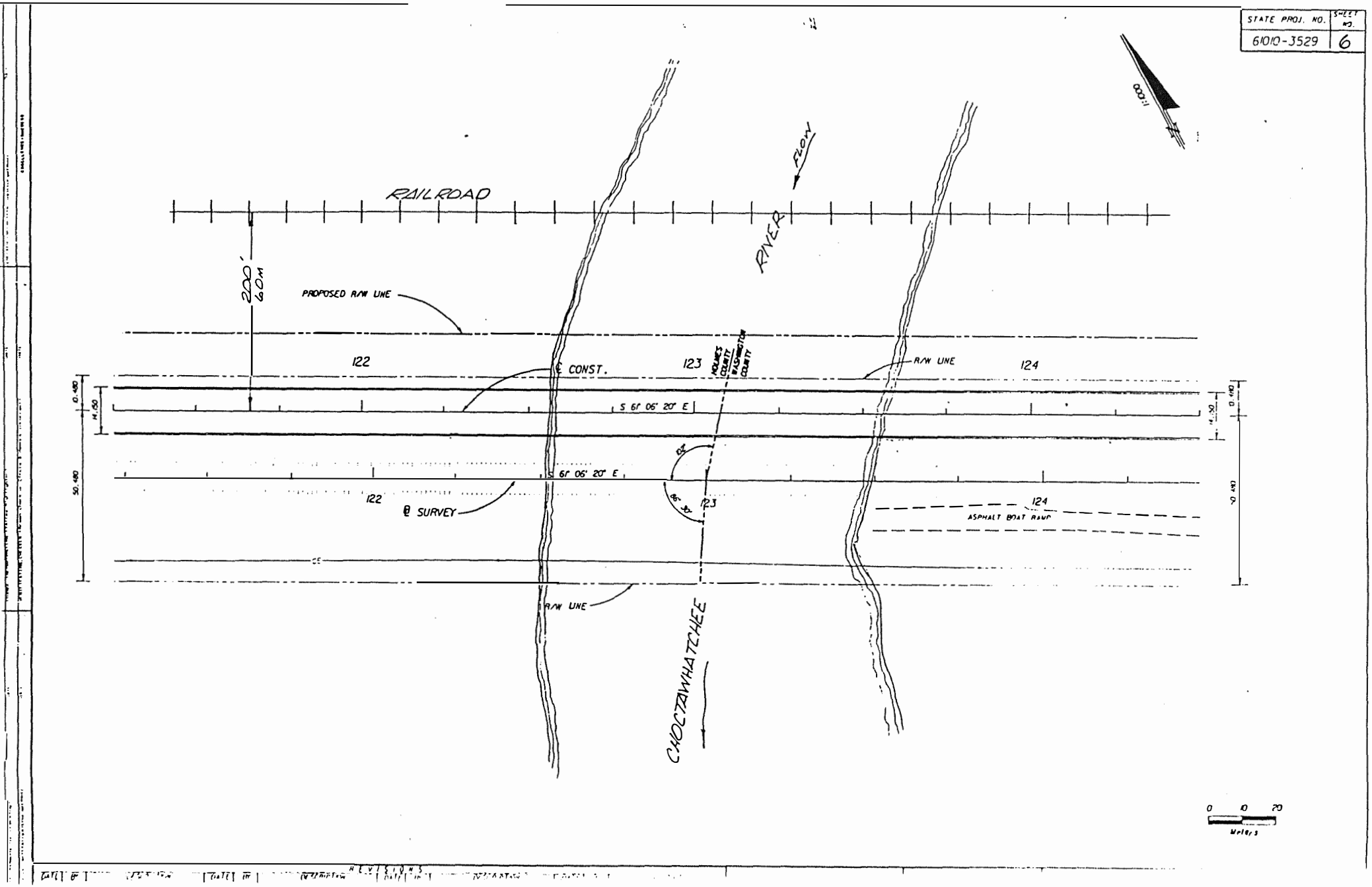


Applicant: Fla. D.O.T.
CE Appl. #: 199802509 (IP-DG)
Date: June 29, 1998
Sheet: 4 of 8

STATE PROJ. NO.	SHEET NO.
61010-3529	5

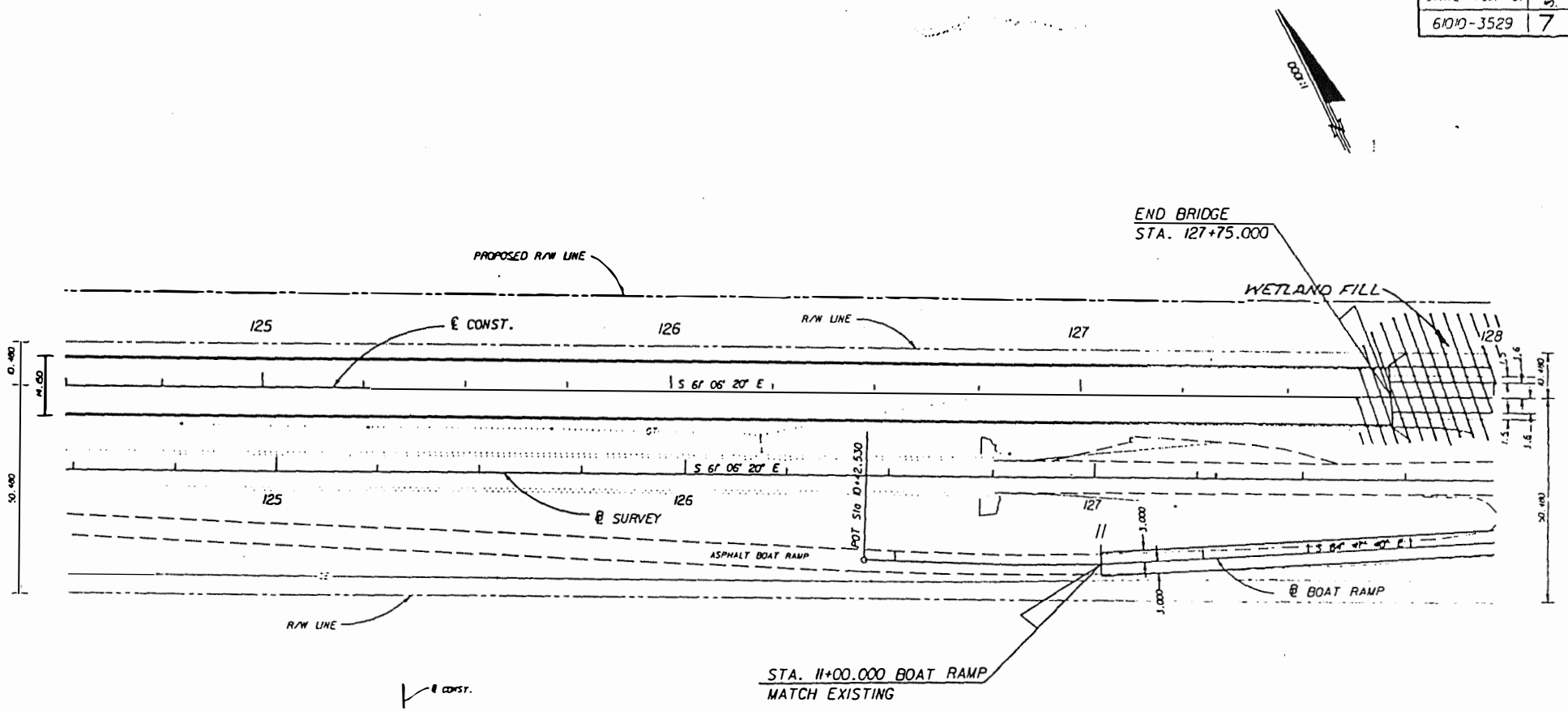


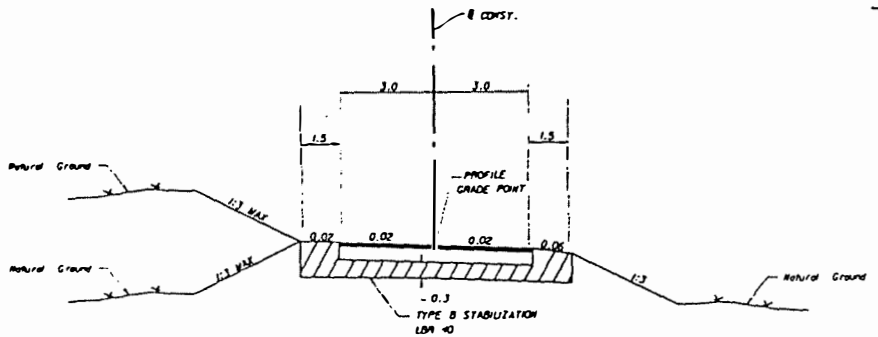
Applicant: Fla. D.O.T.
CE Appl. #: 199802509 (IP-DG)
Date: June 29, 1998
Sheet: 5 of 8



Applicant: Fla. D.O.T.
CE Appl. #: 199802509 (IP-DG)
Date: June 29, 1998
Sheet: 6 of 8

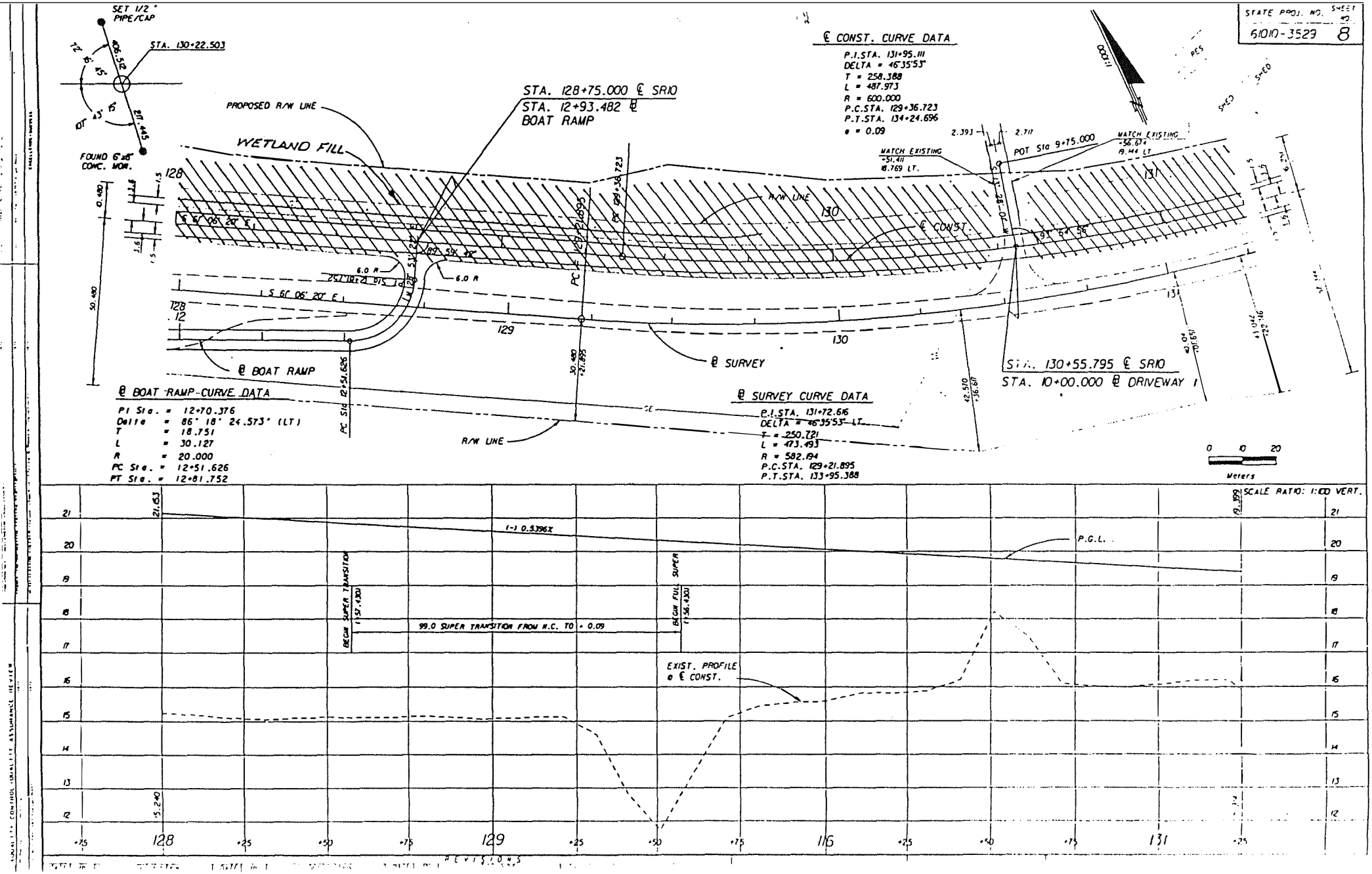
STATE PROJ. NO.	SHEET NO.
61010-3529	7



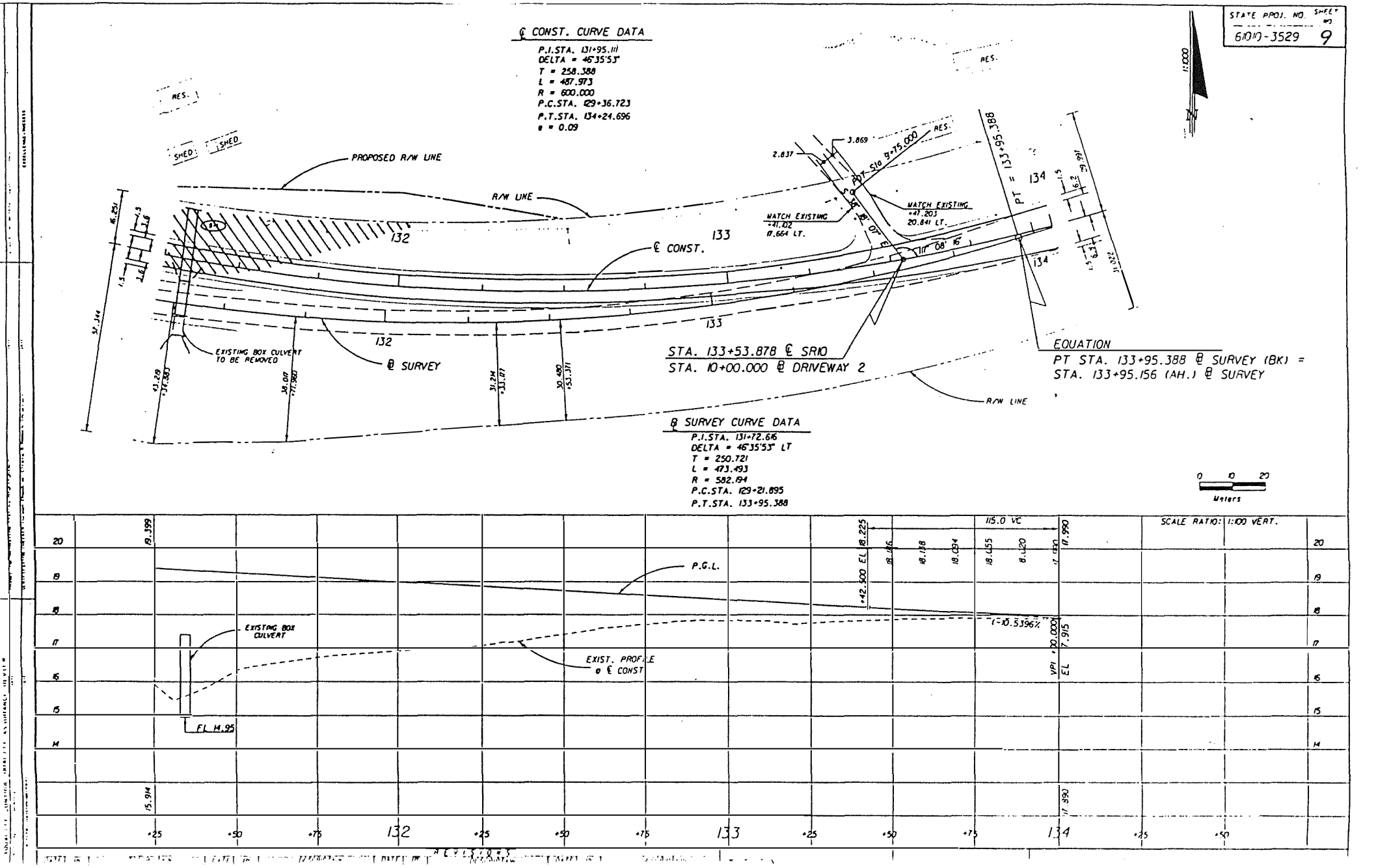


TYPICAL SECTION
BOAT RAMP
STA.11+00.000 TO STA. 12+93.482

Applicant: Fla. D.O.T.
CE Appl. #: 199802509 (IP-DG)
Date: June 29, 1998
Sheet: 7 of 8



Applicant: Fla. D.O.T.
CE Appl. #: 199802509 (IP-DG)
Date: June 29, 1998
Sheet: 8 of 8



Proposed Mitigation Project for Upper Choctawhatchee River Floodplain Sites No. 3, 7, 15-17

Introduction

The Northwest Florida Water Management District (NWFWMD) has developed this mitigation project for wetland impacts caused by the replacement and road realignment of the U.S. 90 bridge across the Choctawhatchee River near Caryville. This construction project by the Florida Department of Transportation (FDOT), Work Program Item (WPI) No. 3119698, will impact 3.3 acres of wetlands. The proposed mitigation sites (Sites No. 3, 7, 15-17) are located on the Choctawhatchee River floodplain on NWFWMD-owned lands, and are proximate to the bridge construction site (Figure 1).

The Choctawhatchee River floodplain has been extensively logged in this century. Silvicultural activities, chiefly logging access roads, have blocked natural drainages in sloughs and changed the hydrologic regime over much of the floodplain. If unabated, these changes in the hydrologic regime have the potential, over time, to significantly alter the structure of the natural floodplain forest. The goal of this mitigation project, as described in the Regional Mitigation Plan: 1998 – 2001 (NWFWMD, December 1997) is to restore the natural low-flow hydrology of approximately 45 acres of wetlands that have been impacted by the construction of logging roads (Table 1). This project, furthermore, has the potential to restore and enhance a total of over 100 acres of wetlands (see Table 1). Hydrologic restoration will be accomplished by the installation of bridges and/or hardened low-water crossings at Sites No. 3, 15-17, and the road abandonment and removal of road fill down to natural grade at Site No. 7 (Table 2). Mitigation above and beyond that required for this specific WPI (No. 3119698) should be reserved as credit for future appropriate WPI's. This project is part of a larger mitigation plan to restore much of the Choctawhatchee River floodplain.

Project Tasks

Outlined below is a summary of the initial project tasks to be undertaken by the NWFWMD in the upper Choctawhatchee River floodplain. All work associated with the mitigation project will be undertaken with funds provided by the FDOT and administered by the Florida Department of Environmental Protection (FDEP). This work includes pre-construction monitoring, design of low-water crossings and bridges and other construction activities, permitting, construction and construction supervision, post-construction monitoring and long-term maintenance. The project tasks outlined below are limited to activities associated with pre-construction monitoring, design, permitting, preparation of bid documents for construction activities, and solicitation of bids for construction of the low-water crossings, bridges and other construction activities that may be required. Specific descriptions of the mitigation activities and monitoring are provided in a later section of this document.

Task 1 – Conduct elevation surveys necessary for the preparation and detailed design of the low-water crossings, bridges and road fill removal.

Task 2 – Complete detailed design drawings and specifications for low-water crossings, bridges and other construction activities needed to fulfill the requirements of the mitigation project.

Task 3 – Establish vegetation transects in the impacted area at each site. It is anticipated that a total of 10-15 transects for all sites will be established. Information will be gathered on the density and percent cover of naturally occurring mixed bottomland hardwood tree species, the percent cover of herbaceous plant species, and the percent cover of bareground and standing water. Particular care will be taken to document listed species. The initial vegetation surveys will establish baseline conditions for comparison with future surveys to be conducted as part of the post-construction monitoring effort for the mitigation project. These surveys may document a change in species composition in areas that were directly impacted by the logging road network.

Task 4 – Conduct a hydrologic assessment at each site. Install water level staff gages at all sites, and install a continuous water level recorder at Site No. 3. Establish an arbitrary datum for recording of water levels. If practical, survey actual elevation above mean sea level of datum.

Task 5 – Following completion of design and permitting tasks, prepare bid documents/specifications for construction of the bridges, low-water crossings and road-fill removal using NWFWMD procurement procedures for construction projects.

Task 6 – Prepare appropriate contracts and documents for construction of the bridges, low-water crossings and road-fill removal, construction supervision, post-construction monitoring and long-term maintenance.

Task 7 – Oversight of construction. Construction is to be accomplished during low-flow conditions in order to minimize and avoid potential for water quality impacts due to temporary disturbances.

Task 8 – Post-construction monitoring and maintenance (up to five years).

Schedule for Completion

It is anticipated that completion of the above tasks, except post-construction monitoring and maintenance, will require one year to complete following contract execution.

Project Budget*

Contractual	147,500
Salaries & Other	100,000

Total	$247,500

*Based on estimate of 3.3 acres of wetland impacts.

Mitigation Project

Summary: This project identifies sites deemed suitable for mitigation of the FDOT U.S. 90 bridge replacement across the Choctawhatchee River. This FDOT project will permanently impact 3.3 acres of floodplain wetlands. The restoration sites are on NWFWMD-owned property in the Choctawhatchee River floodplain. Up to five sites (Sites No. 3, 7, 15-17) will be restored (see Figure 1).

Site Description: The Choctawhatchee River and Bay watershed covers 5,349 square miles, of which approximately 59% is located in Alabama and 41% is located in Florida. In terms of discharge, it is the third largest river in Florida. Forestry and agriculture are the dominant landuses within the watershed. The floodplain includes bottomland hardwood forest and cypress-tupelo stands. Peak flows generally occur during the winter and early spring, with low flows usually occurring during the fall. Impact and mitigation sites are all in the upper Choctawhatchee River floodplain within Florida. Three mitigation sites (Sites No. 15-17) are within one mile of the impact area, and the other two sites (Sites No. 3 and No. 7) are within six miles of the impact site.

Ownership: The NWFWMD owns and manages 52,401 acres within the Choctawhatchee River / Holmes Creek watershed. The proposed mitigation sites (Sites No. 3, 7, 15-17) are on NWFWMD-owned land.

Habitat Description: The mitigation sites are within the Choctawhatchee River floodplain, which is dominated by bottomland hardwood forest and cypress-tupelo stands.

Disturbances: Extensive logging roads and blockage of natural drainages constitute the major disturbances within the floodplain.

Potential for Mitigation: Numerous blocked drainages will be hydrologically restored by the installation of low-water crossings, bridges, or removal of road fill down to natural grade. Hydrologic restoration will facilitate natural vegetation communities within the floodplain.

Hydrologic Restoration: Hardened low-water crossings (Figure 2a), bridges (Figures 2b & 2c), or removal of road fill would effect hydrologic restoration in numerous areas.

Reforestation: Limited areas, particularly sites where road fill is removed, could be reforested by planting of bottomland hardwood species.

Managing Agency: NWFWMD

Site Plan:

Site No. 3. This site, identified as "First Slough" on U.S. Geological Survey 7.5' quadrangle maps, is a floodplain slough that has been bisected by a logging road (Figures 3 & 4). It is a forested wetland with a FLUCCS code (Florida Land Use, Cover and Forms Classification System) of 610 (i.e., Wetland Hardwood Forest). National Wetland Inventory (N.W.I.) maps (U.S. Fish and Wildlife Service) show this area as PFO6F (Palustrine Forested Deciduous with a semi-permanent water regime). The soil is a Bibb association (Bb), a hydric soil common to floodplain sloughs (Soil Conservation Service 1975). The logging road was probably constructed during the 1970s. This site is approximately six miles north-northwest of the U.S. 90 bridge on the Choctawhatchee River.

Due to inadequate culverts and flow maintenance, the logging road impounds water during low-flow conditions, and has led to increased depth and duration of flooding on the upstream side. Downstream flows may also be interrupted. The potential for improved future vitality of the area is substantial. Seedlings need dry micro-sites during the growing season to become established. Removal of the impounding capacity of the logging road should facilitate long-term natural forest regeneration within First Slough. Detailed surveys have not yet been done. However, based on aerial photography, the impacted area to be restored is estimated to be up to 15 acres, with at least another 15 acres enhanced by this project. Hydrologic restoration will consist of the installation of bridges and/or a low-water crossing.

Appropriate controls will be implemented during construction to safeguard water quality. Silt fences will be installed during construction. Stabilization of disturbed areas will be effected following construction. This project will allow for the return of natural flow conditions and the reestablishment of natural floodplain habitat.

Site No. 7. Site No. 7 is located about four miles north-northwest of the U.S. 90 bridge (Figures 5 & 6). Natural low-water flow conditions have been altered at this site by a logging road that bisects the slough (Figures 7, & 8). It is a forested wetland with a FLUCCS code (Florida Land Use, Cover and Forms Classification System) of 610 (i.e., Wetland Hardwood Forest). National Wetland Inventory (N.W.I.) maps (U.S. Fish and Wildlife Service) show Site No. 7 as PFO6F (Palustrine Forested Deciduous with a semi-permanent water regime). According to the Soil Conservation Service (1965), the soil is classified as "Alluvial land" (Al). The directly impacted area to be restored at this site is estimated at 20 acres, with at least another 35 acres enhanced by this project. Additional field surveys will be performed to verify this estimate. Hydrologic restoration will consist of removal of road fill to natural grade and revegetation of the road footprint with appropriate bottomland tree species.

Appropriate controls will be implemented during construction to safeguard water quality. Silt fences will be installed during construction. Stabilization of disturbed areas will

be effected following construction. This project will allow for the return of natural flow conditions and the reestablishment of natural floodplain habitat.

Sites No. 15-17. These sites are located less than one mile downstream of the U.S. 90 bridge on the east side of the Choctawhatchee River (Figures 9 & 10). Natural low-water flows have been altered by logging roads (Figures 11 & 12). Each site is forested wetland with a Fluccs code (Florida Land Use, Cover and Forms Classification System) of 610 (i.e., Wetland Hardwood Forest). National Wetland Inventory (N.W.I.) maps (U.S. Fish and Wildlife Service) show Site No. 15 and Site No. 16 as PFO6C (Palustrine Forested Deciduous with a seasonal water regime), and Site No. 17 as PFO6F (Palustrine Forested Deciduous with a semi-permanent water regime). According to the Soil Conservation Service (1965), the soil at each of these sites is classified as "Alluvial land" (Al). The impacted area of these sites is currently estimated at 15 acres. Hydrologic restoration will consist of the installation of bridges and/or low-water crossings.

Appropriate controls will be implemented during construction to safeguard water quality. Silt fences will be installed during construction. Stabilization of disturbed areas will be instituted following construction. This project will allow for the return of natural flow conditions and the reestablishment of natural floodplain habitat.

Monitoring: A continuous water-level recorder will be established at Site No. 3. Staff gages will be established at Sites No. 7, 15-17. Forest composition will be determined upstream and downstream of each site using both plot and plotless sampling techniques of Brewer and McCann (1982)[1]. At Sites No. 3 and No. 7, permanent radial plots (radius = 3.09 m; area = $30m^2$) will be established to monitor seedling recruitment above and below the logging roads. It is expected that pre-construction seedling recruitment will vary between upstream and downstream sites. Seedling plots will be resampled yearly (late summer/early fall) for five (5) years. Statistical analyses showing a decrease in the difference in seedling recruitment between upstream and downstream sides of the logging roads would suggest restoration of natural conditions. Increment cores of mature trees will be obtained at Sites No. 3 and No. 7 upstream and downstream of the logging roads. These cores will be used for a dendrochronological analysis of growth rings. Differences in growth ring patterns may indicate the degree of impact the logging roads have caused. Several permanent vegetation transects will be established upstream and downstream at Sites No. 3 and No. 7. Using the line-intercept method (i.e., record the presence of every herbaceous plant, shrub, or canopy tree occurring on the transect line), surveys of the vegetation will be made once prior to, and annually for five (5) years after hydrologic restoration.

Success Criteria: Restoration of natural hydrologic conditions on both upstream and downstream sides of the logging roads will constitute success. Since water is the driving force in the functioning of wetlands, natural biological/ecological enhancement should result from this hydrologic restoration.

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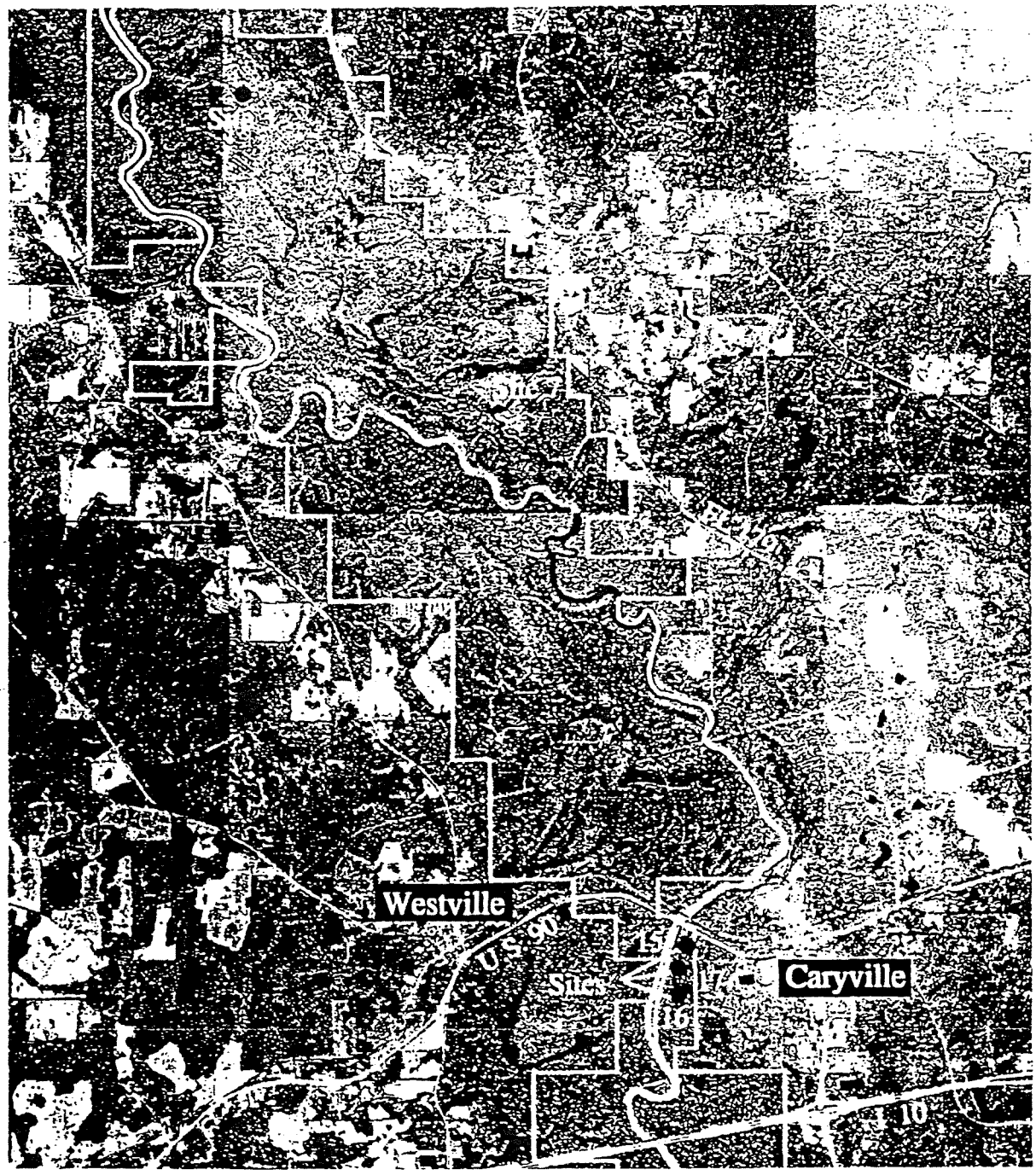
[1] Brewer, R., and M.T. McCann. 1982. Laboratory and Field Manual of Ecology. Saunders College Publishing. Harcourt Brace Jovanovich College Publishers: New York.

Work Implementation Schedule:

7/98 – Pre-construction Baseline monitoring
9/98 – Construction of Low-water crossings and bridges (dependent upon prevailing hydrologic conditions)
9/98 - 9/03 – Post-construction monitoring

Upper Choctawhatchee River
Hydrologic Restoration Sites 3, 7, 15-17



0 1 2 3 4 Miles

0 1 2 3 4 5 6 Kilometers

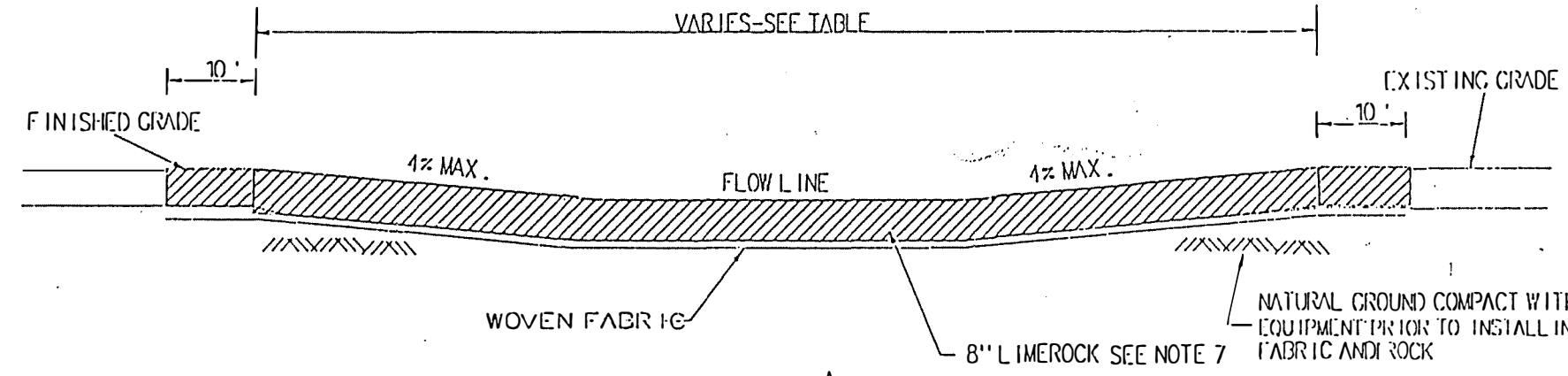
N

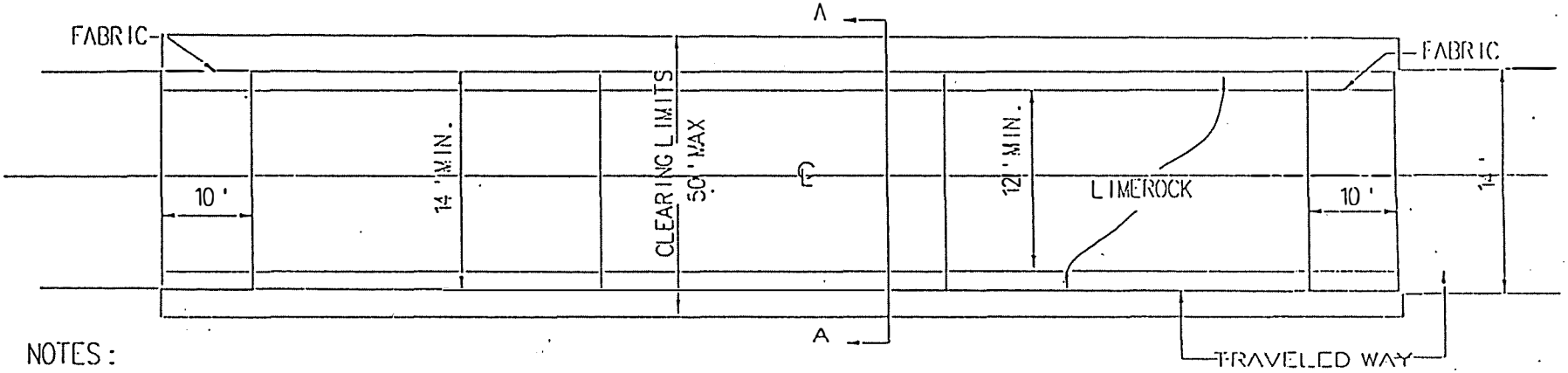
NWFWMD Lands Boundary

/proj/rmd/erp/rlide/doi/caryover.apr

TYPICAL HARDENED LOW WATER CROSSING DETAIL.

(NOT TO SCALE)



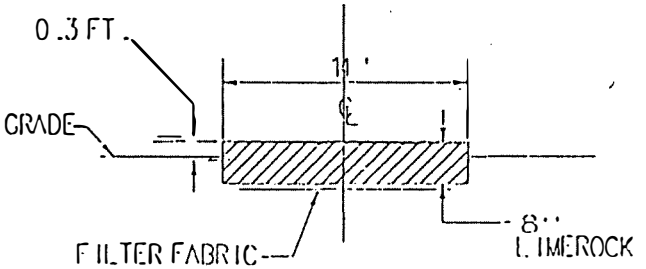


NOTES:

1. ONLY THOSE LWC DESIGNATED FOR HARDENED CROSSINGS WILL RECIEVE LIMEROCK. ALL CROSSINGS NOT DESIGNATED TO BE HARDENED SHALL BE CONSTRUCTED AS SHOWN IN FIGURE 6
2. LIMEROCK SHALL BE TRUCK DUMPED AND MACHINE SPREAD OVER THE FABRIC FOLLOWING PLACEMENT OF FABRIC.
3. COMPACTION OF LIMEROCK SHALL BE ACCOMPLISHED BY SPREADING EQUIPMENT
4. FABRIC SHALL CONFORM TO MIRAFI INC. 600X GEOTECHNICAL FABRIC OR EQUAL
5. MINIMUM FABRIC OVERLAP SHALL BE 6' ON EACH EDGE. ROCK SHALL BE PLACED ON LAP PRIOR TO PLACING ROCK ON SINGLE LAYERS OF FABRIC TO PREVENT LATERAL MOVEMENT.
6. ALL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.
7. UNLESS OTHERWISE APPROVED BY ENGINEER LIMEROCK SHALL MEET THE FOLLOWING GRADATION.

GRADATION:

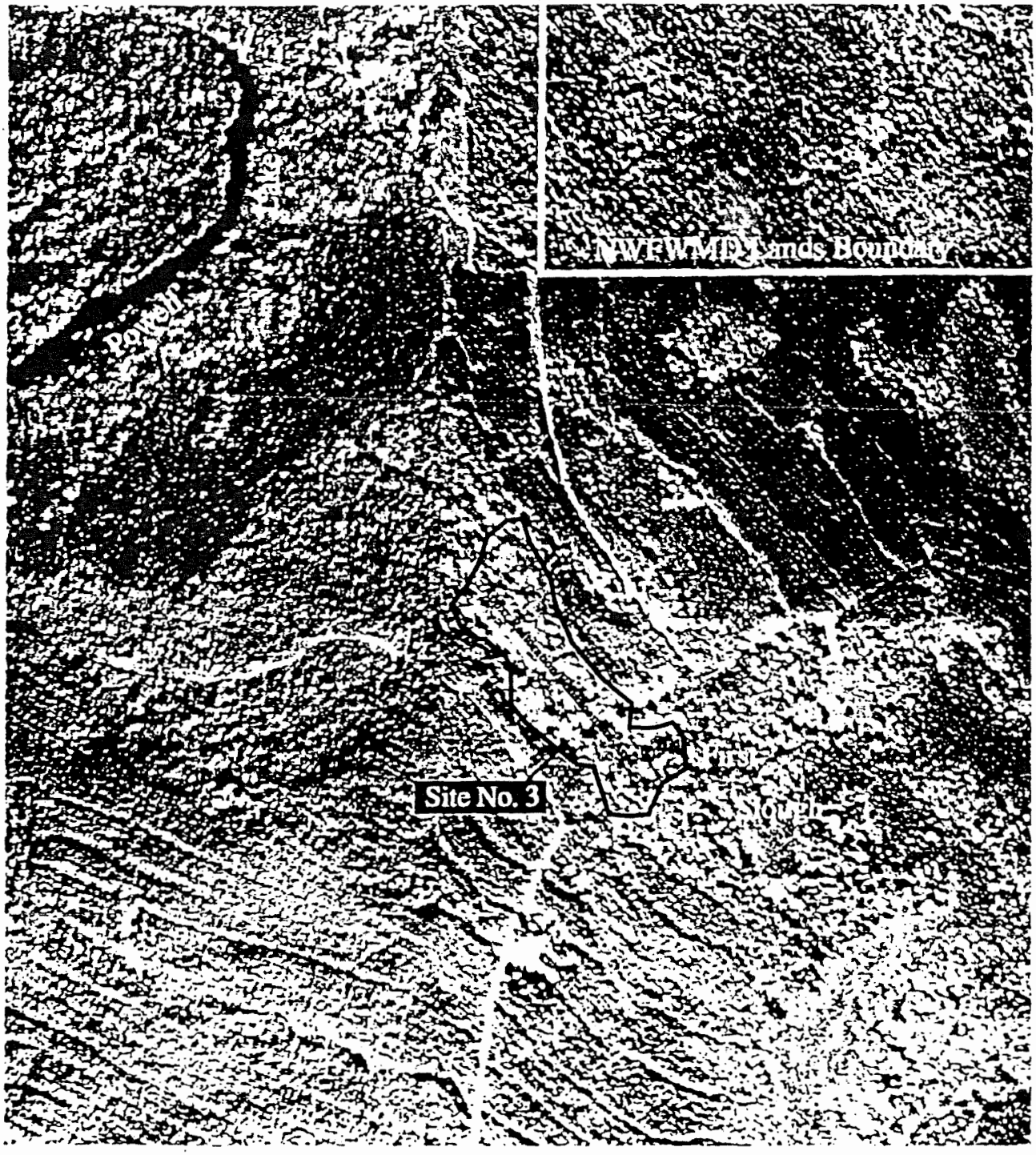
SIEVE	% PASSING
8"	100
2"	0-5



SECTION A - A

Figure 2a

Choctawhatchee River Corridor
Hydrologic Restoration Site No. 3



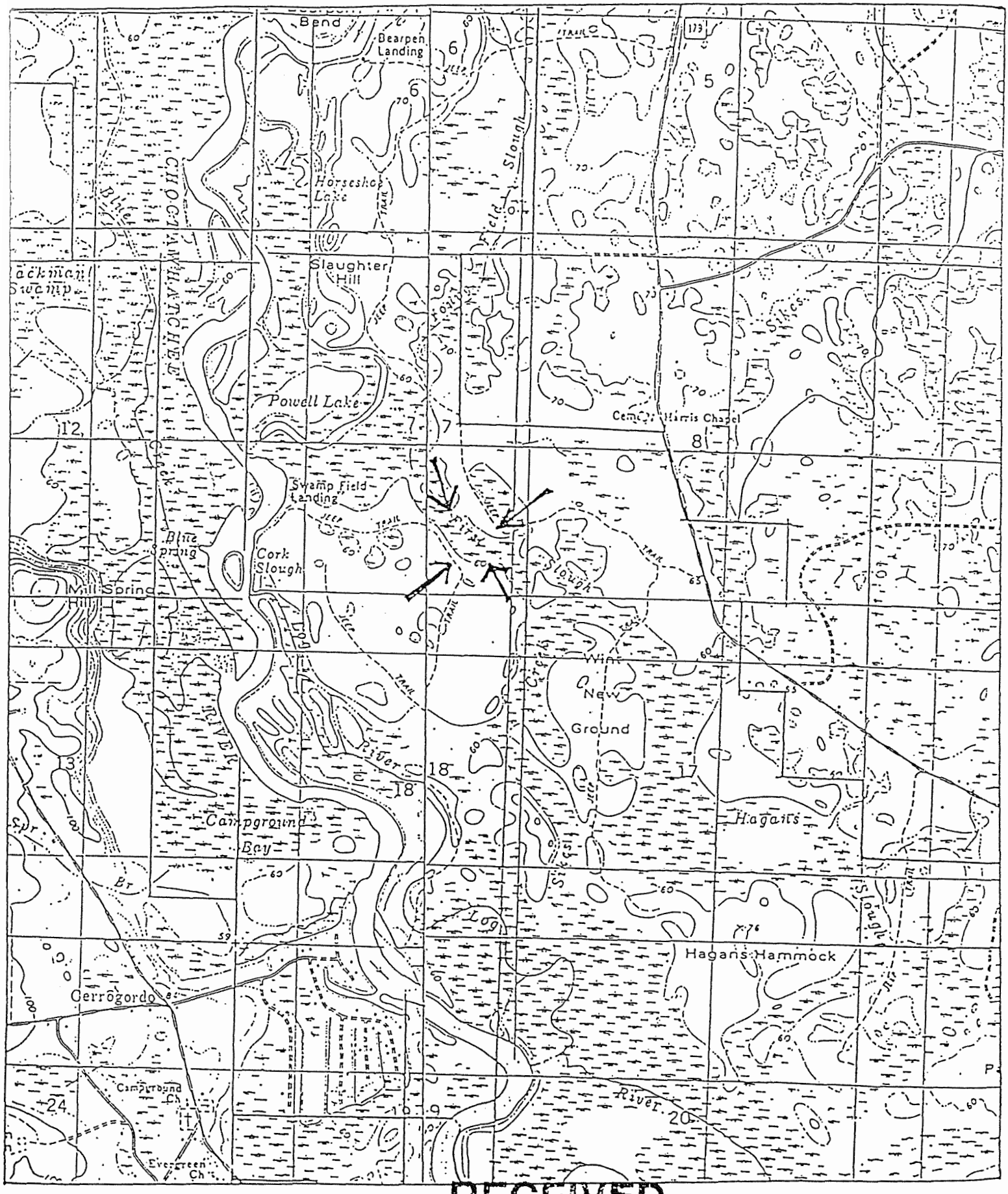
0 0.25 0.5 Miles

0 250 500 750 1000 Meters

/proj/rmd/erp/rlide/dot/ecrp_s3c.apr

Site No. 3

Figure 4

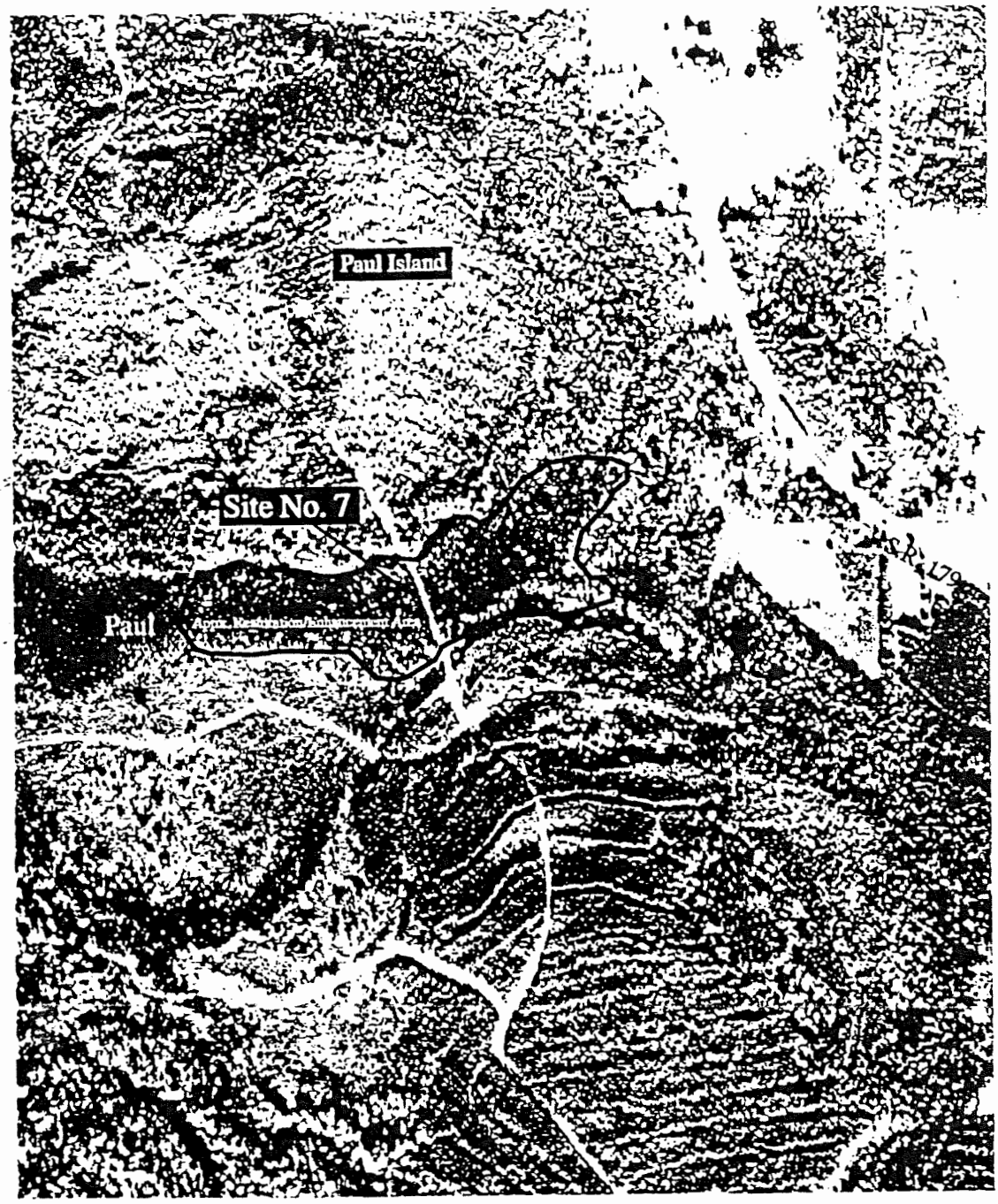


1:24000

Source: USGS 7.5' Quadrangle Maps

Figure 5

Choctawhatchee River Corridor
Hydrologic Restoration Site No. 7



0 0.25 0.5 Miles

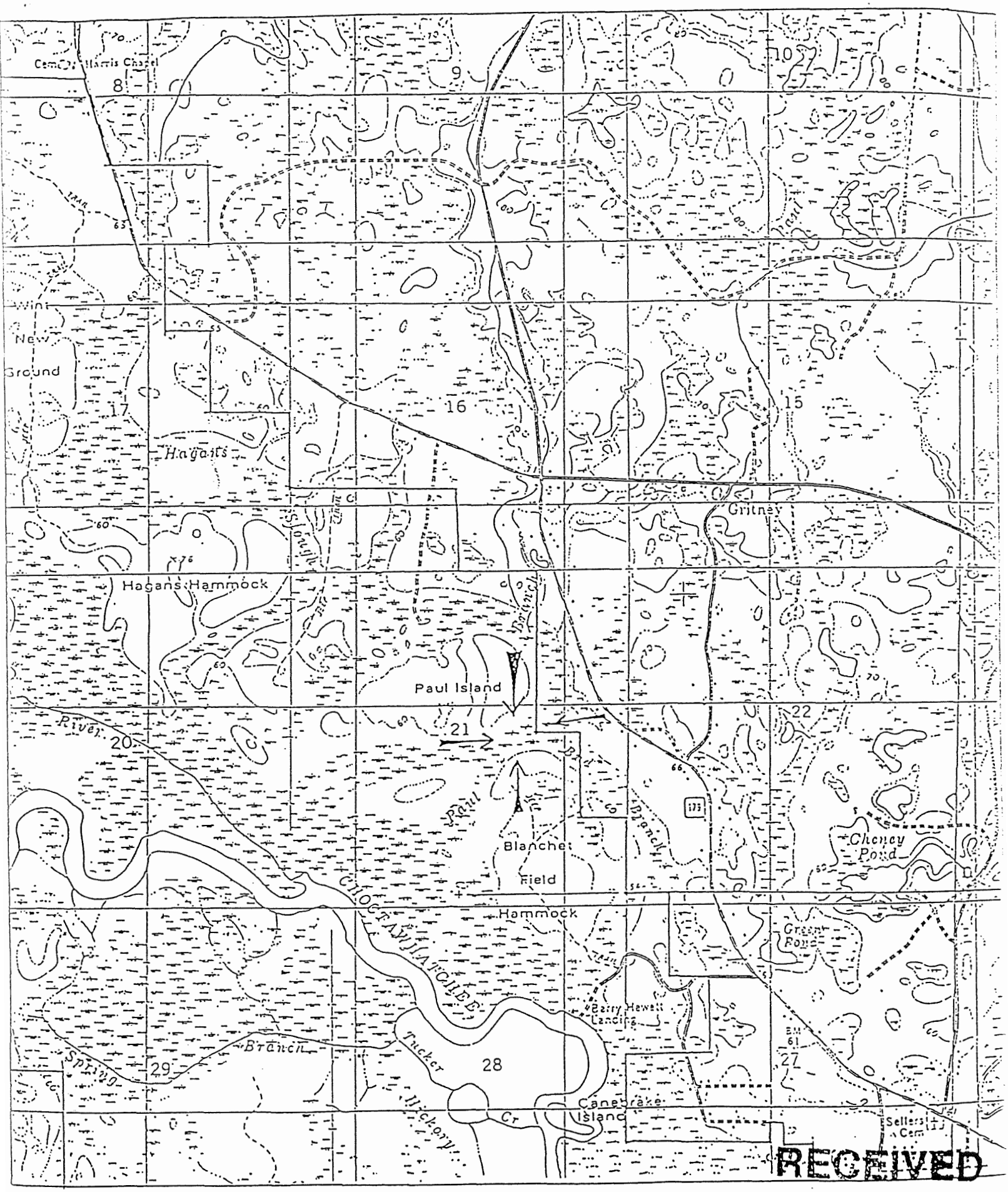
0 250 500 750 1000 Meters

N

/proj/rmd/crp/rlide/dot/cary_s7.apr

SITE NO. 7

Figure 6



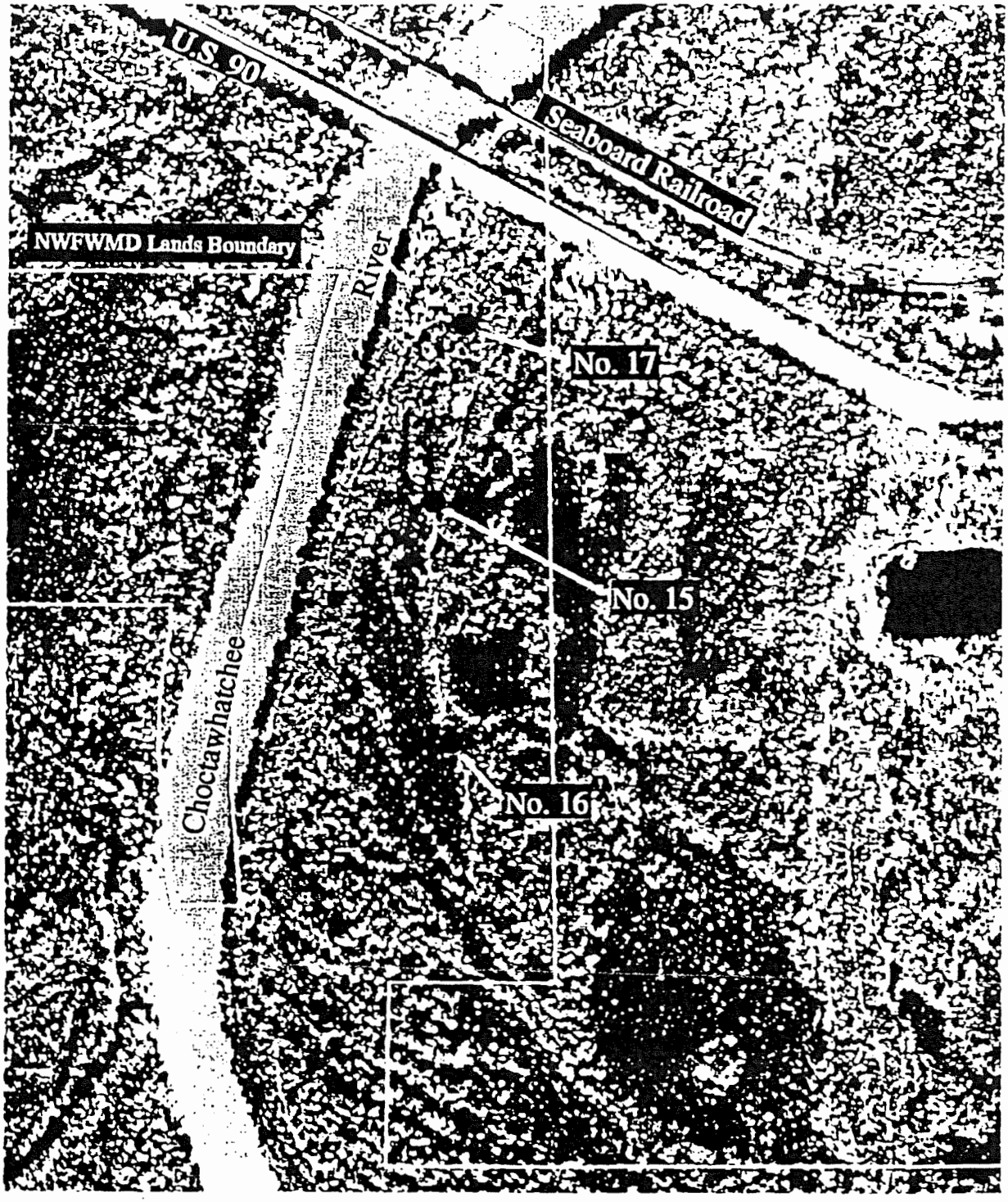
1:24000

Source: U.S.G.S. 7.5' Quadrangle Maps

Figure 7: Logging road blocking slough at Site No.7.

Figure 8: Inadequate culvert at Site No. 7.

Choctawhatchee River Corridor
Hydrologic Restoration Sites No. 15-17



0 0.25 0.5 Miles

0 200 400 600 800 1000 Meters

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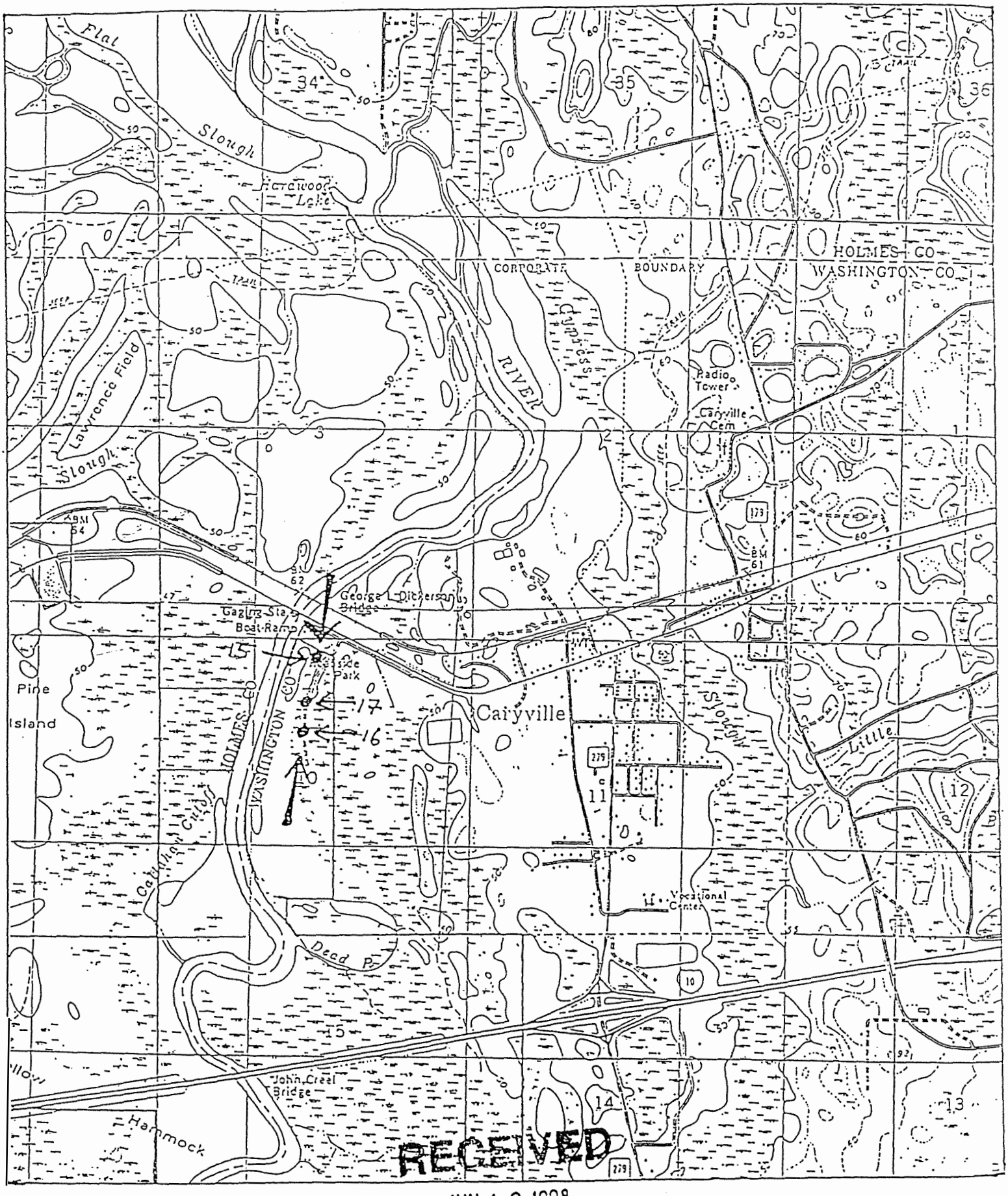
Site No. 15-17

Figure 10



1:24000

Source: USGS 7.5' Quadrangle Maps

Figure 11: Upstream of Site No. 15. Logging road has impounded water.

Figure 12: Downstream of Site No. 15. Slough is dry.

Table 1: Estimated restoration acreage.

Site No.	Direct Restoration Acres Per RMP*	Total Estimated Restoration and Enhancement Acres
3	10-15	30
7	20	65
15	5	5
16	5	5
17	5	5

*Regional Mitigation Plan: 1998 – 2001.

Table 2: Road dimensions, road fill, and construction options and estimated costs.

Site No.	Length (FT)	Appx. Rd. Elev. Above Natural Grade (FT)	Approximate Road Fill (Cubic Yards)	Construction Option One	Construction Option Two
3	280	1	230	Two Bridges	Low-Water Crossing
7	330	2.7	800	Road-Fill Removal	Road-Fill Removal
15	28	3.8	80	Bridge	Low-Water Crossing
16	28	3.8	80	Low-Water Crossing	Low-Water Crossing
17	28	3.8	80	Low-Water Crossing	Low-Water Crossing

14. The permittee shall comply with the following:

a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;

2. the person responsible for performing the sampling or measurements;

3. the dates analyses were performed;

4. the person responsible for performing the analyses;

5. the analytical techniques or methods used; and

6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. The permittee is hereby advised that Florida law states: "No person shall commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund or

the Department of Environmental Protection under Chapter 253, until such person has received from the Board of Trustees of the Internal Improvement Trust Fund the required lease, license, easement, or other form of consent authorizing the proposed use." Pursuant to Florida Administrative Code Rule 18-14, if such work is done without consent, or if a person otherwise damages state land or products of state land, the Board of Trustees may levy administrative fines of up to $10,000 per offense.

2. If historical or archaeological artifacts, such as Indian canoes, are discovered at any time within the project site the permittee shall immediately notify the district office and the Bureau of Historic Preservation, Division of Historical Resources, R. A. Gray Building, 500 S. Bronough St., Tallahassee, Florida 32399-0250.

3. At least 48 hours prior to commencement of work authorized by this permit, the permittee shall notify the Department of Environmental Protection, Panama City Branch Office, in writing of this commencement.

4. Prior to the initiation of any work authorized by this permit, floating turbidity screens with weighted skirts that extend to within 1 ft. of the bottom shall be placed downstream of the project location. The screens **shall be maintained and shall remain in place for the duration of the project** construction to ensure that turbidity levels outside the construction area do not degrade the ambient water quality of Outstanding Florida Waters. The permittee shall be responsible for ensuring that turbidity control devices are inspected daily and maintained in good working order so that there is no degradation of the ambient water quality of Outstanding Florida Waters outside of the turbidity screens.

The following measure shall be taken by the permittee whenever turbidity levels within waters of the State surrounding the project site exceed the ambient water quality levels of the Outstanding Florida Waters:

a. Immediately cease all work contributing to the water quality violation.

b. Stabilize all exposed soils contributing to the water quality violation. Modify the work procedures that were responsible for the violation and install more turbidity containment devices and repair any non-functioning turbidity containment devices.

c. Notify the [Bureau of Submerged Lands and Environmental Resources and DEP Panama City Branch Office] within 24 hours of the time the violation is first detected.

5. Best management practices for erosion control shall be implemented and maintained at all times during construction to prevent siltation and turbid discharges in excess of State water

quality standards pursuant to Rule 62-302, F.A.C. Methods shall include, but are not limited to the use of staked hay bales, staked filter cloth, sodding, seeding, and mulching; staged construction; and the installation of turbidity screens around the immediate project site.

The permittee shall be responsible for ensuring that erosion control devices/procedures are **inspected and maintained daily during all phases of construction** authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.

6. The mitigation plan for this project must be completed in accordance with the stamped permitted mitigation plan that has been agreed to by the Northwest Florida Water Management District. This office must be contacted immediately if the mitigation plan changes in any manner.

7. The terms, conditions, and provisions of the required Public Easement shall be met. Construction of this activity shall not commence on sovereign submerged lands, title to which is held by the Board of Trustees of the Internal Improvement Trust Fund, until all required Public Easement documents have been executed to the satisfaction of the Department.

8. All contractor staging and lay down areas may only be on uplands or wetlands permitted to be impacted from this project.

9. Notice of Permit Issuance must be published in a local newspaper of general circulation within 30 days of permit issuance. Proof of publication must be provided to the Panama City Branch Office within 7 days of publication.

RIGHTS OF AFFECTED PARTIES

This permit and intent to grant an easement sovereign submerged lands is hereby granted unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S., and rule 62-103, F.A.C. The actual terms of the Public Easement will be formally executed at a later date and shall include provisions for rents and such other provisions as normally are included in such documents.

A person whose substantial interests are affected by the Department's proposed decisions in this permit and intent to grant an easement sovereign submerged lands may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. Petitions filed by the permit applicant and the parties listed below must be filed within 14 days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of their receipt of this intent, whichever first occurs. Third party petitioners shall mail