



December 29, 2011

L-2011-567
10 CFR 50.4
EPP 3.2.4

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Re: St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
Environmental Protection Plan Report
Proposed Revision to IWW Permit No. FL0002208

Pursuant to Section 3.2.4 of the St. Lucie Environmental Protection Plan, Florida Power & Light Company (FPL) is hereby providing the enclosed copy of the proposed revision to the Industrial Wastewater Facility Permit (Permit Number FL0002208) at the same time that it is being submitted to the State of Florida Department of Environmental Protection.

Please contact Vince Munné (772) 263-2847 should you have any questions on this matter.

Sincerely,

A handwritten signature in black ink that reads 'ES Katzman'.

Eric S. Katzman
Licensing Manager
St. Lucie Plant

ESK/kdr

Enclosure

A001
NRR



December 29, 2011

Marc Harris, P.E.
Florida Dept. of Environmental Protection
Industrial Wastewater Section
2600 Blair Stone Road, MS 3545
Tallahassee, Florida 32399-2400

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7006 3450 0003 0174 4547

RE: Florida Power & Light Company
St. Lucie Power Plant Units 1 and 2
IWW Permit No. FL0002208
Request for Minor Revision to Re-establish Internal Outfall I-06A

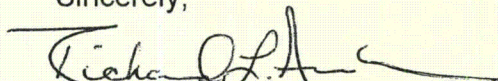
Dear Mr. Harris

Attached please find the following documents to support the subject request for a minor revision to the Florida Power & Light Company (FPL) St. Lucie Power Plant Units 1 and 2 State of Florida Industrial Wastewater (IWW) Permit No. FL0002208.

- 1) Justification for Re-establishing Internal Outfall I-06A (Enclosure 1)
- 2) Four (4) signed, sealed copies of FDEP Form 62-620.910(9), Application for a Minor Revision to a Wastewater Facility or Activity Permit (Enclosure 2)
- 3) Maps depicting location of outfall (Enclosure 3)
- 4) Letter from the St. Lucie County Mosquito Control District dated November 18, 2011, RE: Impoundment 8G Culvert Installation (Enclosure 4)
- 5) An FPL Check payable to the Florida Department of Environmental Protection for the \$250.00 application fee (Enclosure 5)

If you have any questions or need additional information on this matter, please contact Vince Munné at (772) 467-7453.

Sincerely,


Richard L. Anderson
Site Vice President
St. Lucie Plant

VPPSL062

Enclosures

Enclosure 1

Justification for Re-establishing Internal Outfall I-06A

(2 pages)

Justification for Re-establishing Internal Outfall I-06A

Florida Power & Light Company (FPL) requests that the Florida Department of Environmental Protection (FDEP) consider a request to re-establish former St. Lucie Power Plant Internal Outfall I-06A to the Site's Industrial Wastewater Permit No. FL0002208 (NPDES) as a minor permit modification.

A review of historic St. Lucie NPDES permits has identified that over the years several of the approved internal outfalls have been eliminated, re-assigned, and or re-established. Based on requests from the St. Lucie County Mosquito Control Department to modify a small portion of St. Lucie Site drainage, we believe that it is appropriate to request the re-establishment of an additional internal outfall, I-06A.

Current NPDES Internal outfall I-06C supports discharge of non-industrial storm water run off from various parking lots located on the east perimeter of the plant's property. The non-industrial storm water run off from the east parking lots discharges into mangrove impoundment 8E, which in turn discharges into the plant's intake cooling water canal. A similar process for the discharge of non-industrial storm water parking lot run off into a small wetland exists on the north section of the St. Lucie Power Plant site property.

Since initial site construction activities, the discharge of parking lot non-industrial storm water run off from the site's north parking lot discharged into a small isolated wetland, depicted as 8G on the enclosed site drainage plan. This discharge point is not currently identified as an approved internal outfall. St. Lucie County has requested permission to connect the drainage from 8G to the adjacent Big Mud Creek. FPL believes it is appropriate to define the discharge from 8G as an approved internal outfall as 8G is now connected to a navigable waterway. Impoundment 8G was previously isolated from Big Mud Creek by a narrow access road, thus wetland 8G was not previously subjected to direct tidal influence.

The St. Lucie County Mosquito Control Department has determined that 8G is the largest source of mosquitoes on Hutchinson Island. Subsequently, St. Lucie County Mosquito Control approached the plant requesting permission to establish a culvert and a tidal gate from Big Mud Creek to impoundment 8G as a method to passively control the mosquito population. St. Lucie County Mosquito Control also determined that the population of mosquitoes emanating from impoundment 8G is of sufficient magnitude to pose a threat to the health and safety of the public, as well as site personnel.

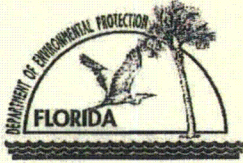
Currently the St. Lucie County Mosquito Control Department manages all of St. Lucie's mangrove impoundments. The control and management of 8G and the associated tidal gate will be added to the Counties mosquito control program.

As stated above, the current St. Lucie Power Plant IWW Permit approved internal outfall I-06C receives only non-industrial parking lot storm water run off from several parking lots located on the east side of St. Lucie property. Outfall I-06C provides the same function as the proposed new outfall, I-06A. Grouping these two outfalls together is appropriate due to similarities in function and process. If the state agrees that an additional internal outfall (I-06A) is warranted, then the plant requests that the required monitoring and reporting schedule for outfall I-06C be applied to the requested outfall, I-06A, and be reflected on St. Lucie's Monthly Discharge Monitoring Report.

Enclosure 2

Four (4) signed, sealed copies of FDEP Form 62-620.910(9)
Application for a Minor Revision to a Wastewater Facility or Activity Permit

(4 pages each copy; 16 pages total)



APPLICATION FOR A MINOR REVISION TO A WASTEWATER FACILITY OR ACTIVITY PERMIT

1. Instructions

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- b. Each applicable item must be completed in full in order to avoid delay in processing of this form. Where attached sheets or other technical documentation are provided, indicate appropriate cross-references.
- c. Three (3) copies of this application with supporting documentation shall be submitted with this form.
- d. All information is to be typed or printed in ink. Dates are to be entered in MM/DD/YR format.
- e. This application and attachments shall be signed in accordance with Rule 62-620.305, F.A.C. Also, as applicable, this application and all attachments shall be signed and sealed by a professional engineer registered in Florida in accordance with Rule 62-620.310, F.A.C.

2. Facility Information

a. Permit Number: FL0002208 b. Facility Identification Number: _____
c. Project/Facility Name: St. Lucie Power Plant
d. Contact Name: Vince Munne
Number and Street: 6501 S. Ocean Drive
City/State/Zip Code: Jensen Beach, FL 34957
Telephone: 772-263-2847

3. Type of Revision

- Correct Typographical Errors¹** - Submit one copy of each page of the permit showing revisions being requested.
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- Change Staffing Requirements²** - Describe the proposed change and submit justification for the change in accordance with Chapter 62-699, F.A.C.

¹A processing fee is not required.

²A processing fee is required with the application in accordance with Rule 62-4.050, F.A.C.



0 500
SCALE FEET

IMPOUNDMENT 7
(NO PROPOSED
IMPROVEMENTS)

PROPOSED 14-GUAGE 30"
CORRUGATED ALUMINUM PIPE

IMPOUNDMENT 8G

US HWY A1A

PROPOSED 14-GUAGE 24"
CORRUGATED ALUMINUM PIPE
omit

IMPOUNDMENT 8H

PROPOSED 14-GUAGE
12" CORRUGATED
ALUMINUM PIPE

EXISTING FP&L
NUCLEAR POWER
PLANT

IMPOUNDMENT 8J

LEGEND
PROPOSED 14-GUAGE 12-30"
CORRUGATED ALUMINUM
PIPE (TYP) — #
PROPERTY BOUNDARY - -



SOURCE: AERIALS EXPRESS COPYRIGHT(C) 2007

FLUCFCS MAP


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and Associates, Inc.**
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PHONE: 772-794-4100 FAX: 772-794-4130
WWW.KIMLEY-HORN.COM CA 0000699

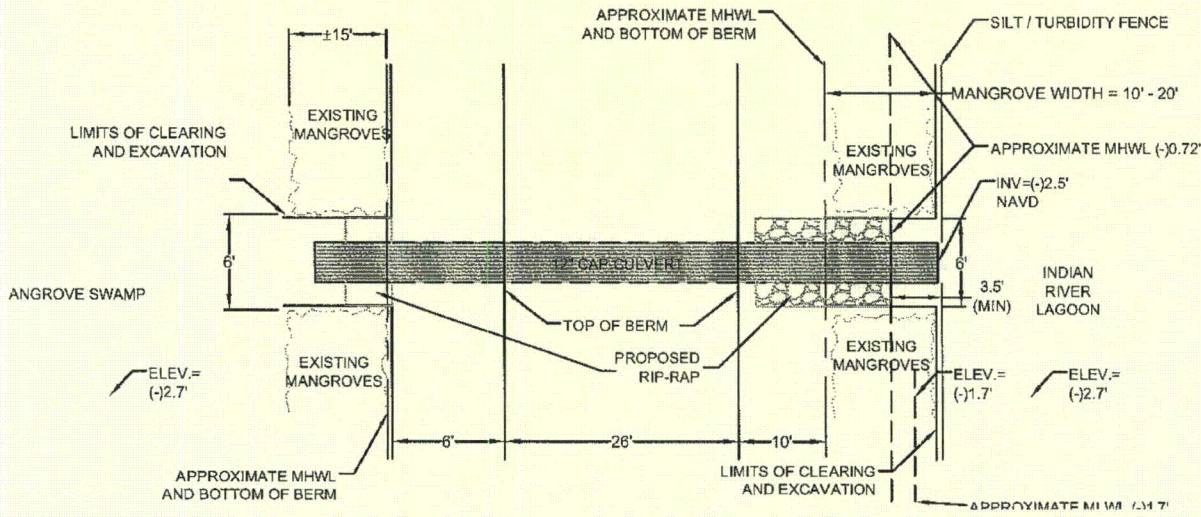
DATE
9/27/10
PROJECT NO.
047207006

ST. LUCIE COUNTY
MOSQUITO CONTROL DISTRICT
IMPOUNDMENT 8G, 8H, & 8J IMPROVEMENTS

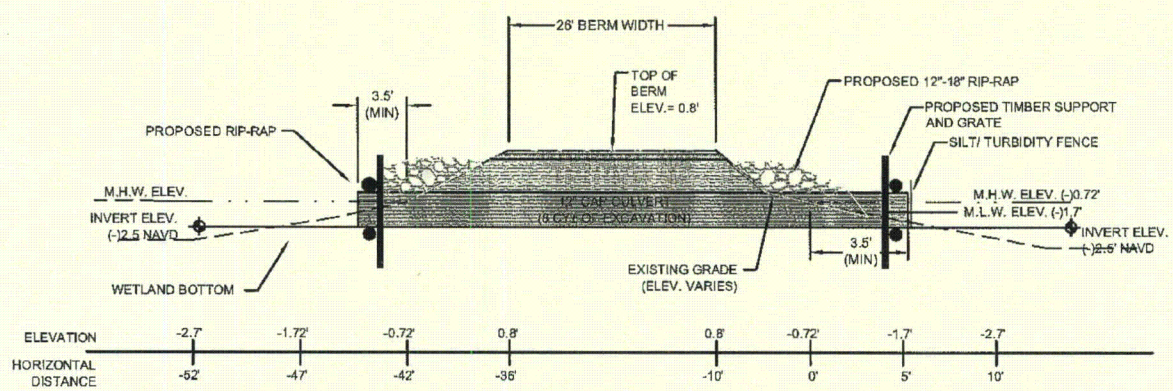
EXHIBIT NUMBER
3

Drawing name: K:\WRB_Environment\047207006 Impoundments 8 & 8J\ADD\EXHIBITS\Impoundment 8.dwg 3 - FLUCFCS MAP Sep 26, 2010 4:51 pm By: Tracy Walker
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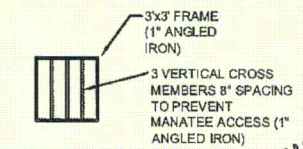
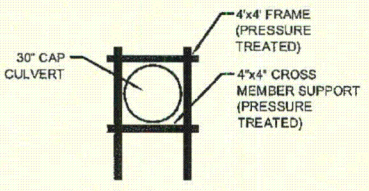
Drawing name: K:\VRB_Environmental\047207005 Impoundments 8 & 8J\CADD\EXHIBIT 5\Impoundment 8.dwg 4C - CULVERT PLAN-8J Dec 17, 2010 8:38am by: brady.walker
 This document, together with the contracts and design presented herein, is an instrument of service, in accordance with the contract documents and specifications for Civil-Work and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



CULVERT PLAN VIEW
SCALE: NTS

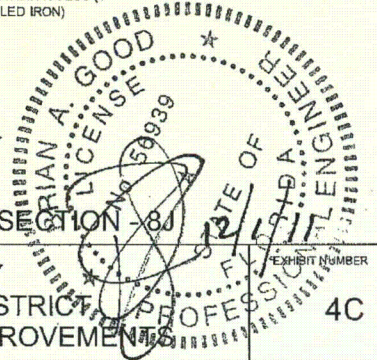


NOTE: 1) CLEARING WILL CONSIST OF BRAZILLIAN PEPPER AND MINOR TRIMMING OF MANGROVE LIMBS.
 NO SEAGRASS IMPACTS ARE PROPOSED.
 2) CULVERTS TO INCLUDE TIMBER BRACE SUPPORTS.



CULVERT CROSS-SECTION VIEW
SCALE: NTS

CULVERT PLAN AND CROSS SECTION - 8J



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ST. LUCIE COUNTY
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EXHIBIT NUMBER
4C



APPLICATION FOR A MINOR REVISION TO A WASTEWATER FACILITY OR ACTIVITY PERMIT

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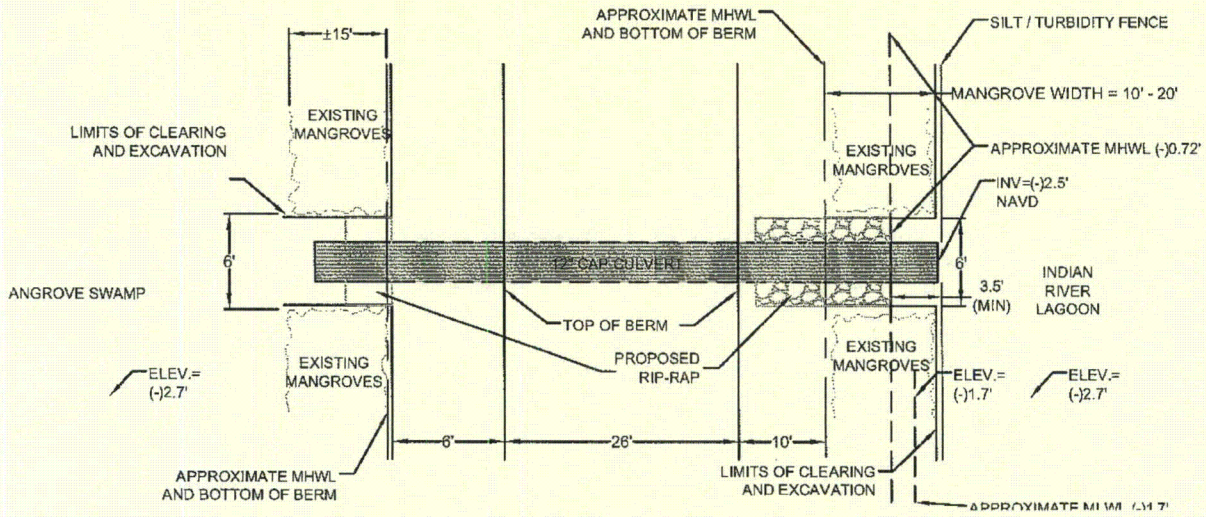
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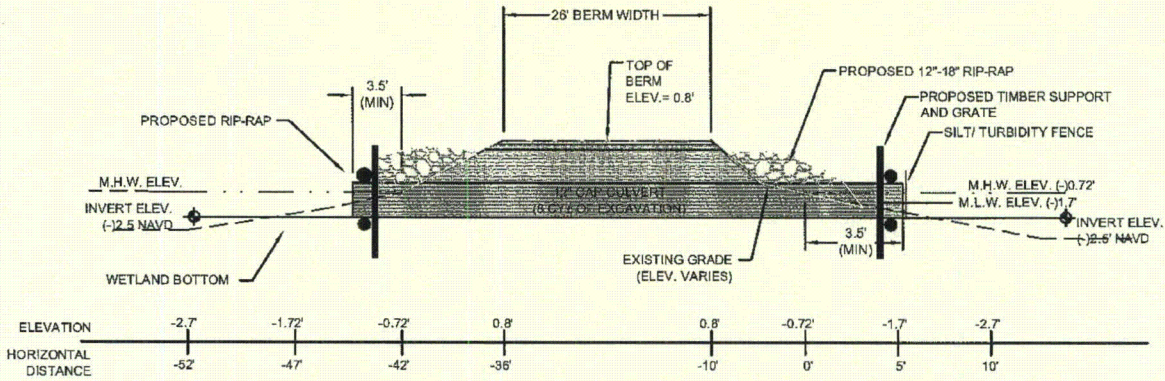
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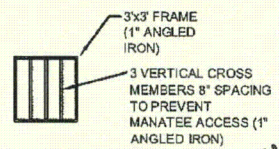
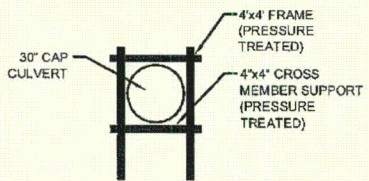
Drawing name: KCMRB_Environmental047207006 Impoundments 8 & 8J CADDE/EXHIBIT/Impoundment 8.dwg 4C - CULVERT PLAN-8J Dec 17, 2010 8:38am by: brady.walker
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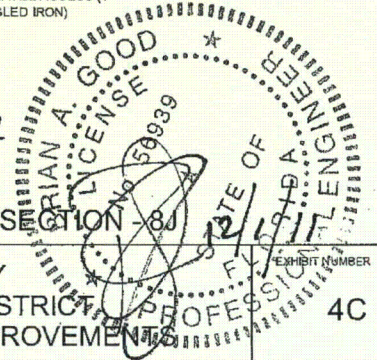


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DATE	9/27/10
PROJECT NO.	047207006

ST. LUCIE COUNTY
 MOSQUITO CONTROL DISTRICT
 IMPOUNDMENT 8G, 8H, & 8J IMPROVEMENTS

EXHIBIT NUMBER
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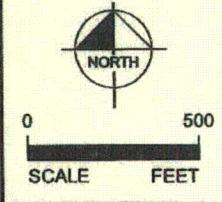
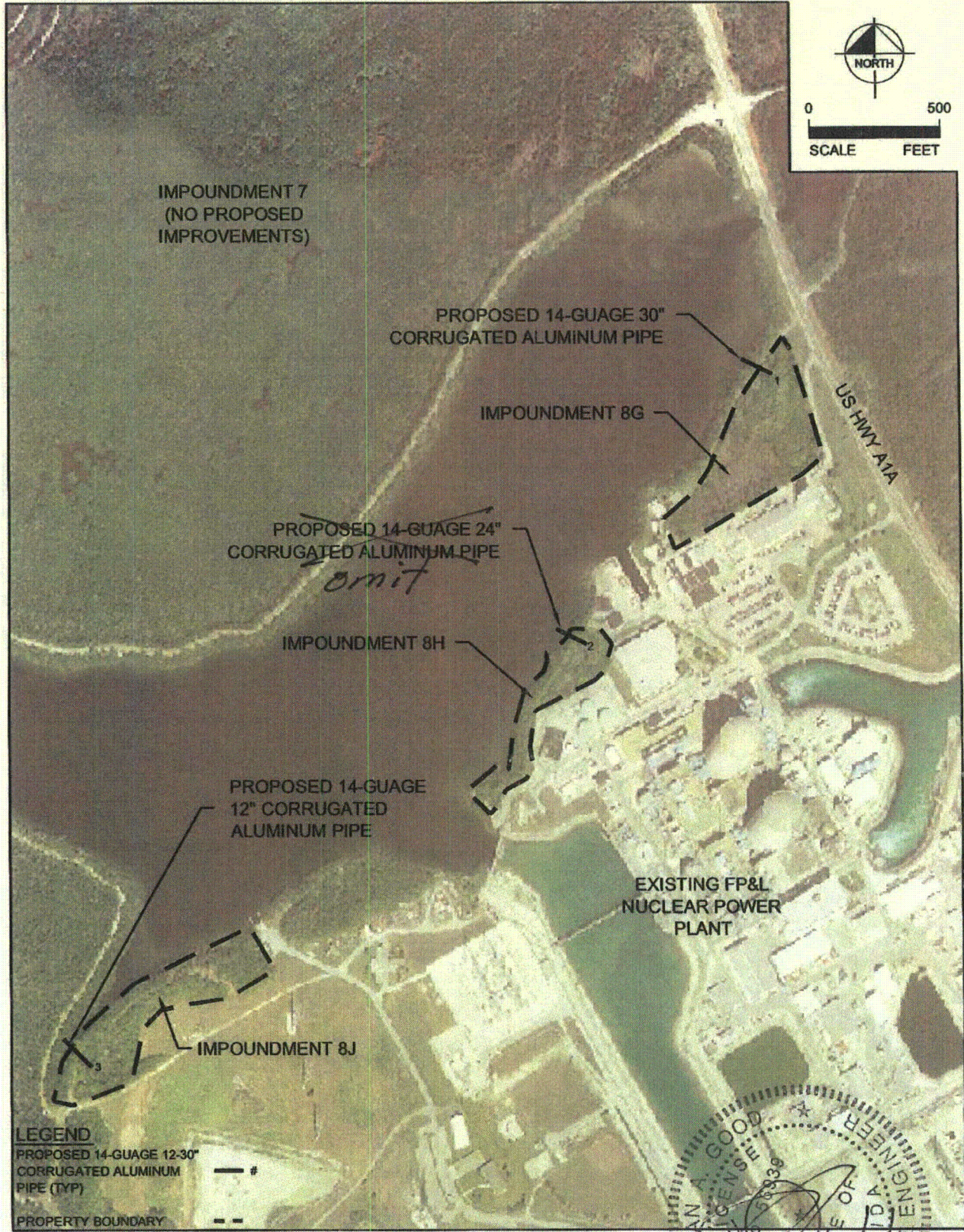
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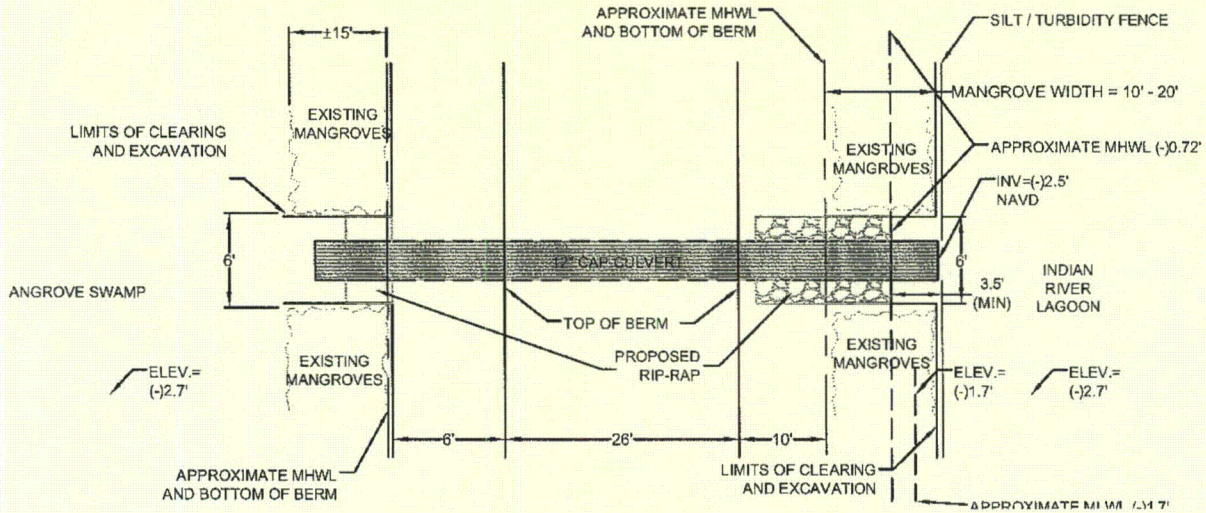
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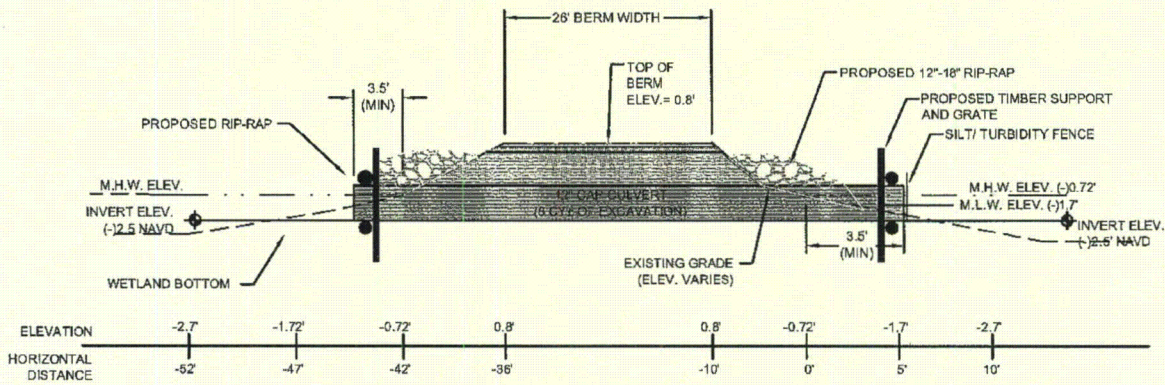


EXHIBIT NUMBER
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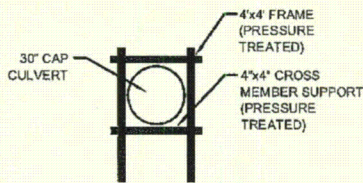
Drawing name: K:\VRB_Eawicoms\047207006 Impoundments 8 & 8J\CAD\EXHIBITS\Impoundment 8.dwg 3 - FLUCFCS MAP Sep 26, 2010 4:51 pm by: brady.walker
 This document, together with the contracts and design professional liability, is an instrument of service, as an instrument of service, to be used only for the specific purpose and shall be void for all other purposes. Names of and impoundment numbers on this document reflect certain conditions and are subject to change by Kimley-Horn and Associates, Inc. and its subcontractors by Kimley-Horn and Associates, Inc.



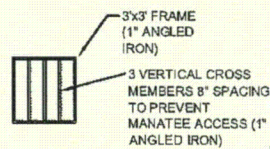
CULVERT PLAN VIEW
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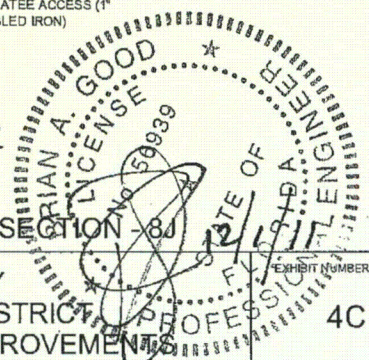
CULVERT SUPPORT DETAIL



CULVERT GRATE DETAIL

CULVERT CROSS-SECTION VIEW
SCALE: NTS

CULVERT PLAN AND CROSS SECTION - 8J



Drawing name: K:\VRS_Environment\047207006 Impoundments 8 & 8J\CADD\EXHIBIT\Impoundment 8.dwg 4C - CULVERT PLAN-8J Date: 17, 2010 8:38am by: brady.walker
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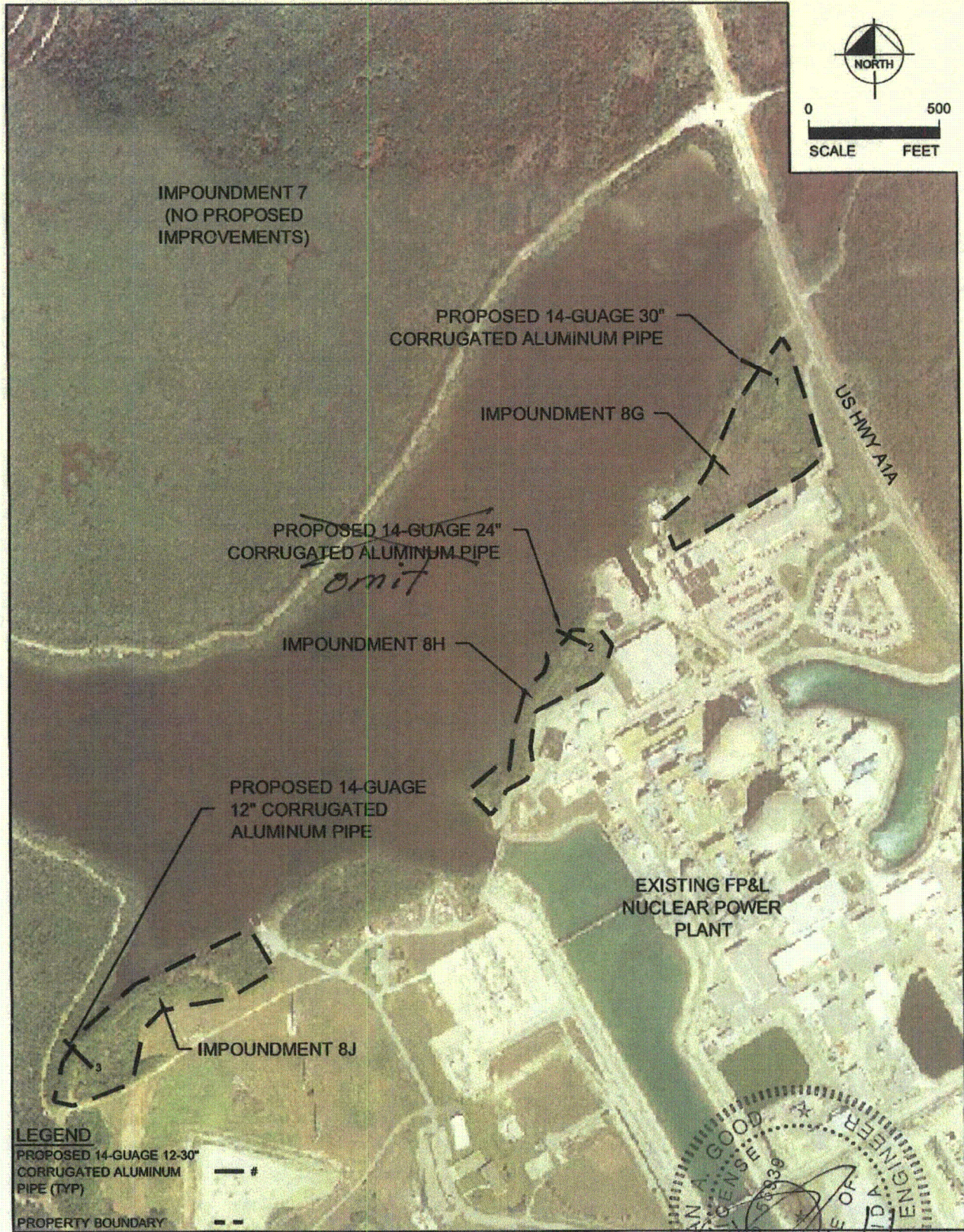
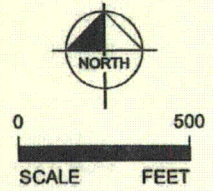
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 CORRUGATED ALUMINUM
 PIPE (TYP) - - - #
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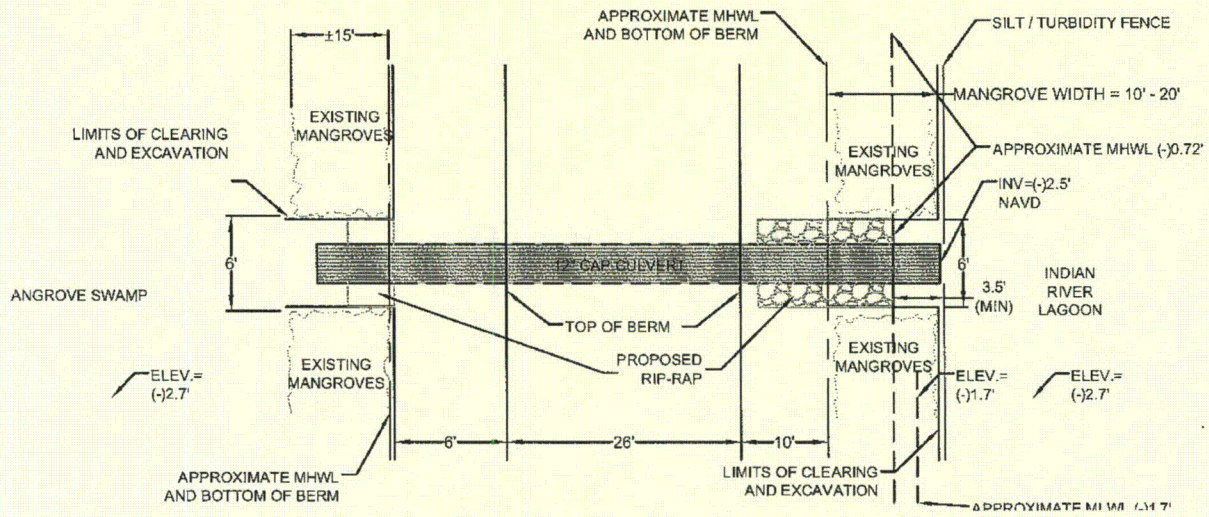
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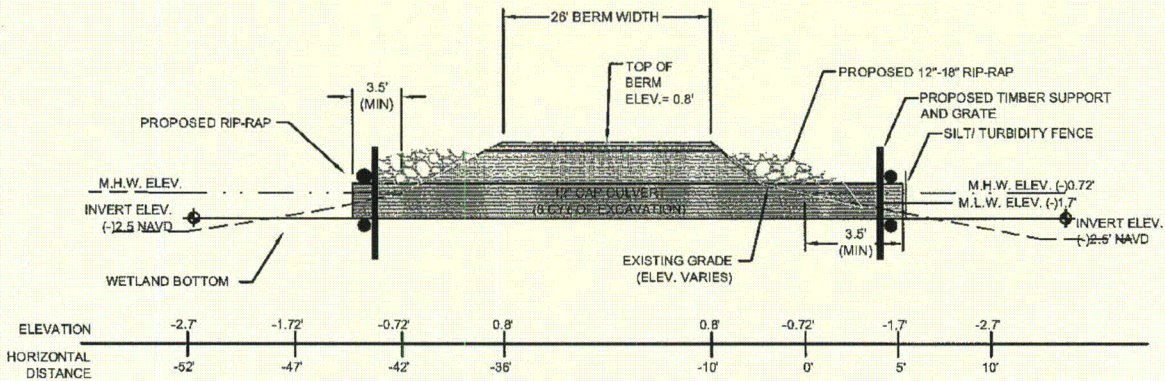
EXHIBIT NUMBER
3

Drawing name: K:\VFB_Environment\047207006 Impoundments 8 & 8J\ADD\EXHIBIT\Impoundment 8.dwg 3 - FLUCFCS MAP Sep 28, 2010 4:51 pm by: brady.walker
 This document, together with the contracts and design professional liability, is intended only for the specific purpose and client for which it was prepared. Review of and/or reproduction of this document without the written consent of Kimley-Horn and Associates, Inc. will be without liability to Kimley-Horn and Associates, Inc.

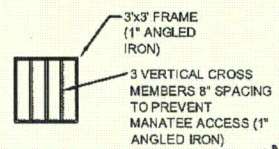
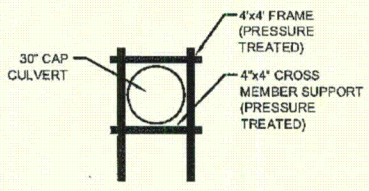
Drawing name: KIMHB_Environmental047207006 Impoundments 8 & 8C/ADD/EXHIBIT/Impoundment 8.dwg 4C - CULVERT PLAN-8J Date: 17, 2010 8:38am by: brady.walker
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CULVERT PLAN VIEW
SCALE: NTS

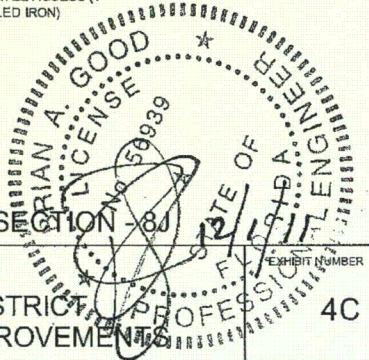


NOTE: 1) CLEARING WILL CONSIST OF BRAZILLIAN PEPPER AND MINOR TRIMMING OF MANGROVE LIMBS.
 NO SEAGRASS IMPACTS ARE PROPOSED.
 2) CULVERTS TO INCLUDE TIMBER BRACE SUPPORTS.



CULVERT CROSS-SECTION VIEW
SCALE: NTS

CULVERT PLAN AND CROSS SECTION -8J



<p>Kimley-Horn and Associates, Inc. © 2010 KIMLEY-HORN AND ASSOCIATES, INC. 445 24TH STREET, SUITE 200, VERO BEACH, FL 33960 PHONE: 772-794-4100 FAX: 772-794-4130 WWW.KIMLEY-HORN.COM CA 00000985</p>	DATE 9/27/10
	PROJECT NO. 047207006

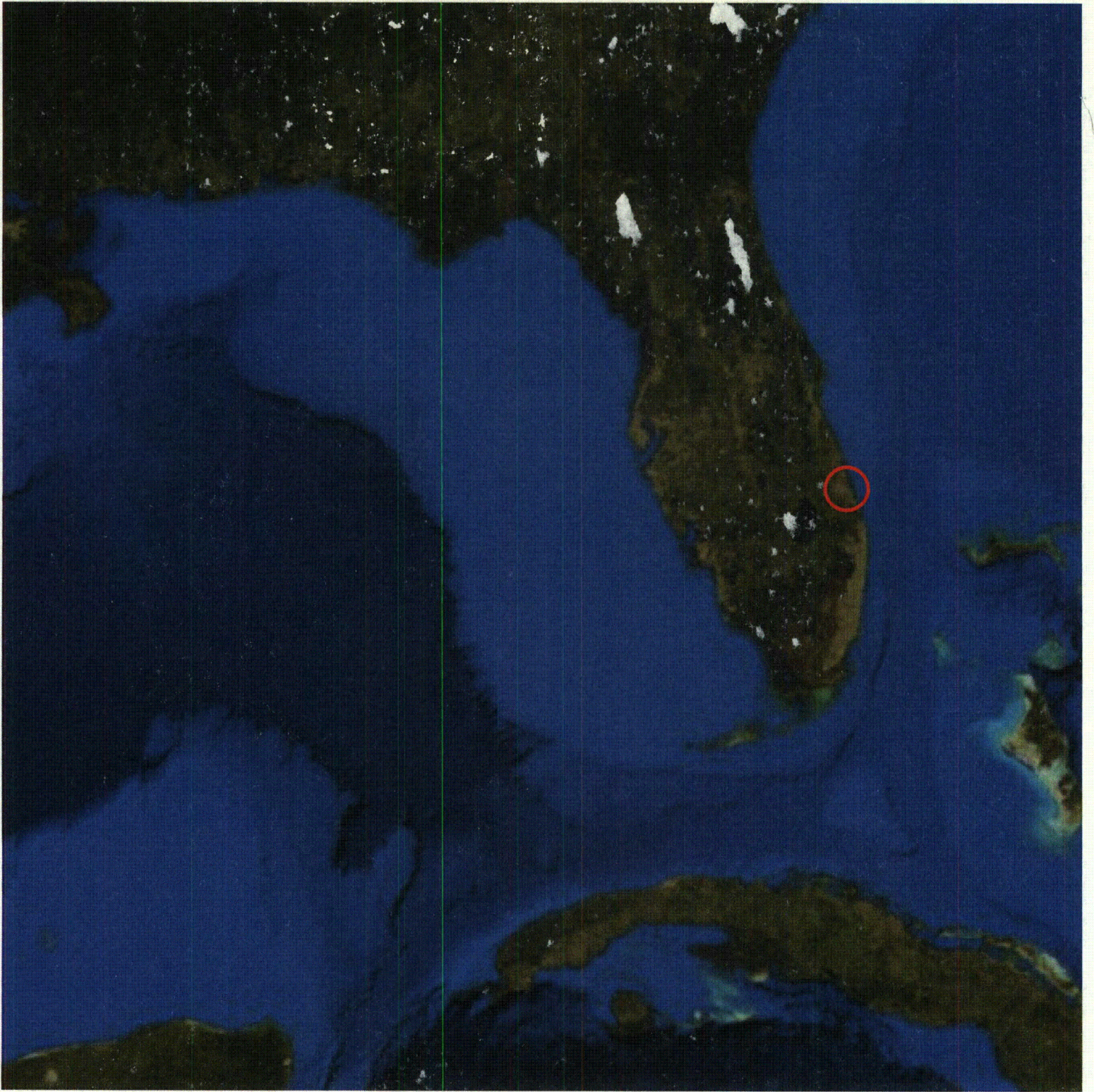
ST. LUCIE COUNTY
MOSQUITO CONTROL DISTRICT
IMPOUNDMENT 8G, 8H, & 8J IMPROVEMENTS

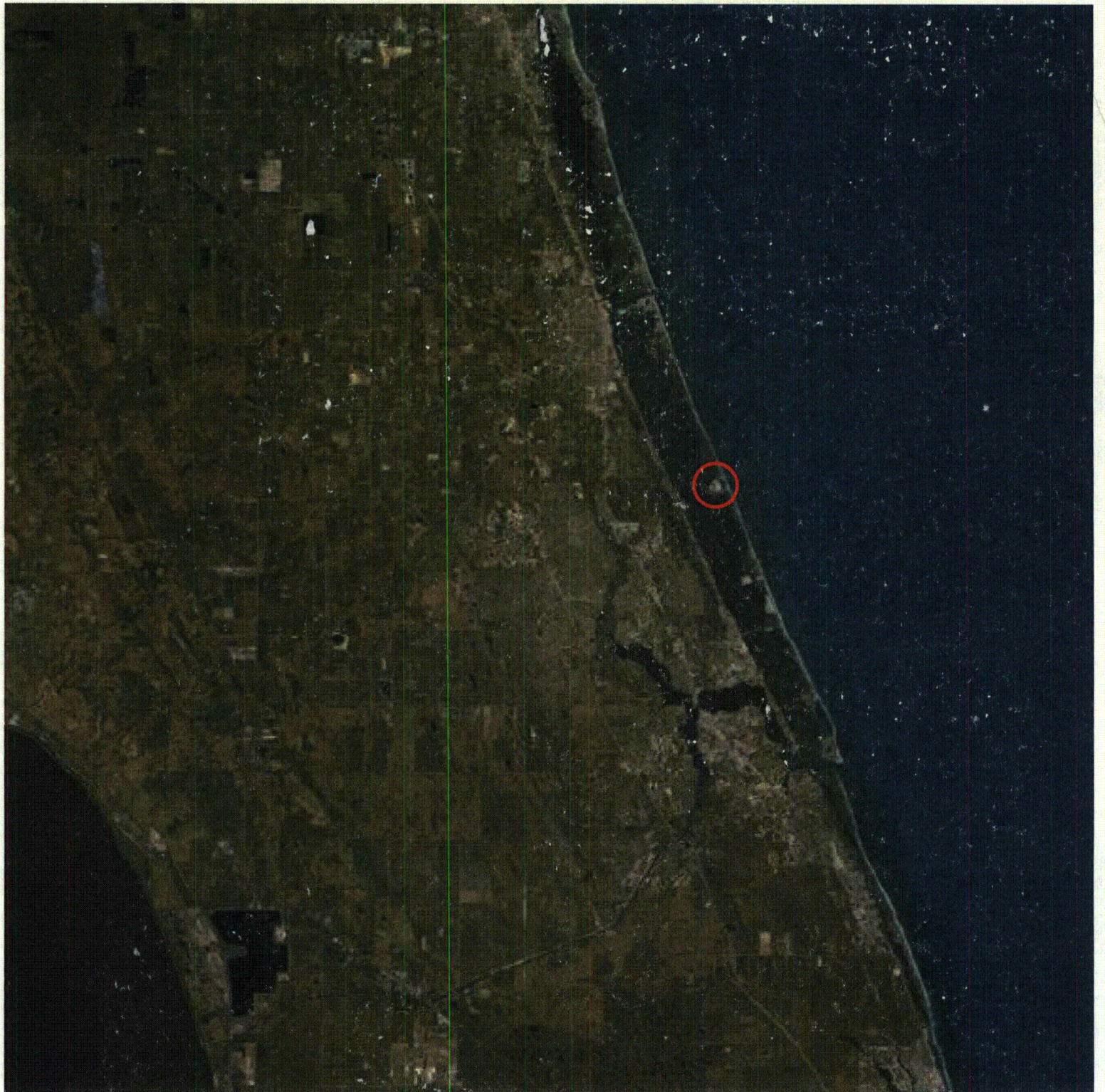
EXHIBIT NUMBER
4C

Enclosure 3

Maps depicting location of outfall

(4 pages)





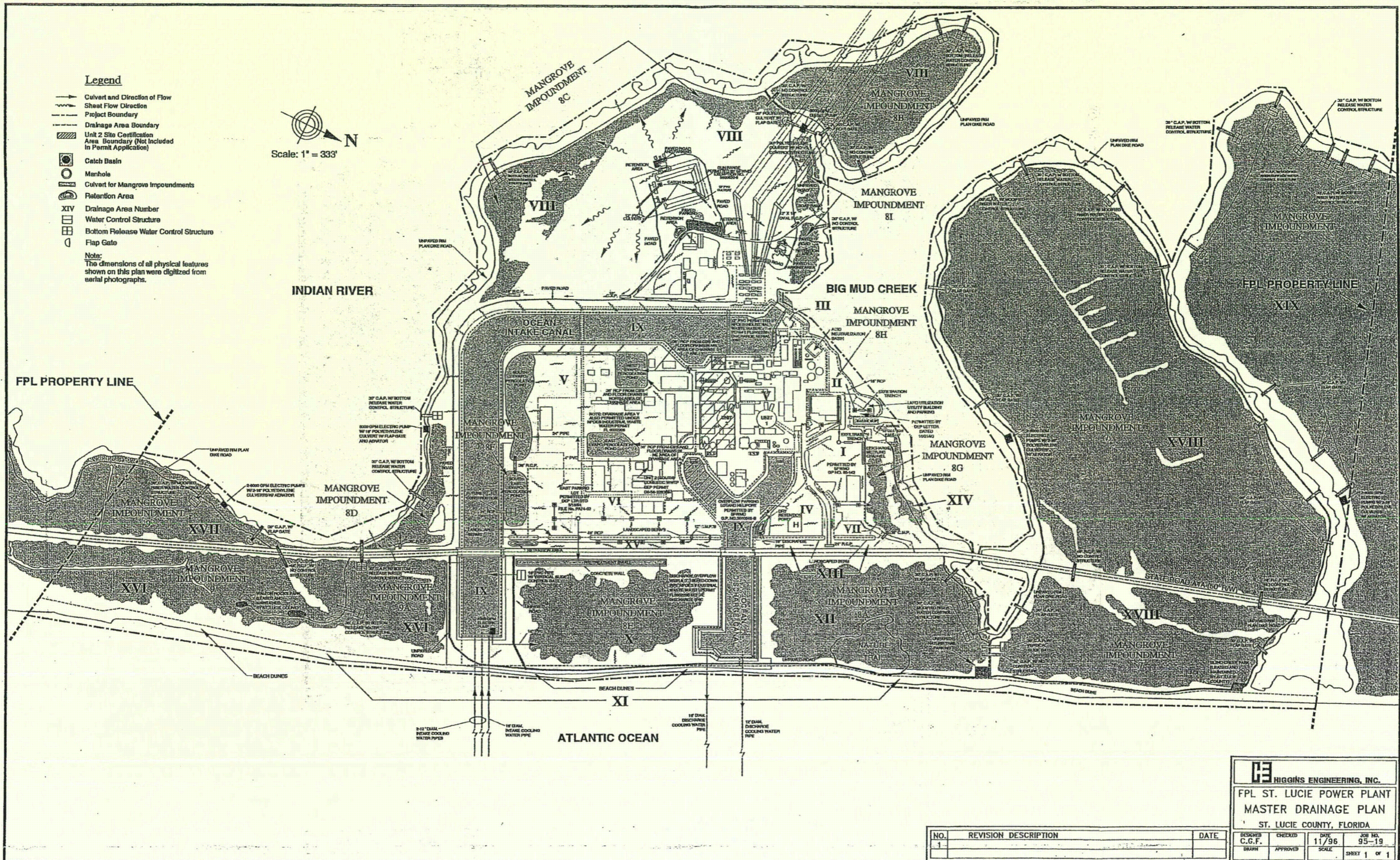


Legend

- Culvert and Direction of Flow
- ~ Sheet Flow Direction
- - - Project Boundary
- - - Drainage Area Boundary
- ▨ Unit 2 Site Certification Area Boundary (Not Included in Permit Application)
- Catch Basin
- Manhole
- ⊞ Culvert for Mangrove Impoundments
- ⊞ Retention Area
- XIV Drainage Area Number
- ⊞ Water Control Structure
- ⊞ Bottom Release Water Control Structure
- ⊞ Flap Gate



Note:
The dimensions of all physical features shown on this plan were digitized from aerial photographs.



HIGGINS ENGINEERING, INC.
FPL ST. LUCIE POWER PLANT
MASTER DRAINAGE PLAN
ST. LUCIE COUNTY, FLORIDA

NO.	REVISION DESCRIPTION	DATE
1		

DESIGNED C.G.F.	CHECKED	DATE 11/96	JOB NO. 95-19
DRAWN	APPROVED	SCALE	SHEET 1 OF 1

Enclosure 4

Letter from the St. Lucie County Mosquito Control District
Dated November 18, 2011
RE: Impoundment 8G Culvert Installation

(1 page)



**ST. LUCIE COUNTY
MOSQUITO CONTROL DISTRICT**

James R. David, MC&CMS Director

**3150 Will Fee Road,
Fort Pierce, FL 34982
(772) 462-1692**

November 18, 2011
Vince Munne
St. Lucie Nuclear Power Plant
Attn.: Land Utilization
South Ocean Drive
Fort Pierce, Florida 34957

RE: Impoundment 8G Culvert Installation

Dear Mr. Munne,

From a Public Health perspective, managing the wetlands along the north and east side of the Hutchinson Island Nuclear Power Plant is extremely critical.

They are producing most of the mosquitoes that the plant employees experience, and were the initial source of most of the serious mosquito breeding that took place on South Hutchinson Island in 2011 that affected several thousand residents living north and west of the plant.

Installation of the culvert in Impoundment 8G will both benefit the wetland from a functional standpoint, as well as, from a public health perspective, because it will allow tidal flushing of the wetland, as well as, create a natural predator base for controlling the mosquitoes breeding in the wetland.

Please let me know if I need to provide further information, my contact number is 772-462-1686.

Thank you.

Sincerely,

James R. David

James R. David
Director

Enclosure 5

FPL Check payable to the Florida Department of Environmental Protection

(1 page)

FLORIDA POWER & LIGHT COMPANY
700 Universe Boulevard
Juno Beach, FL 33408

Check Date: 12/21/2011

Check No. 5000047120

BANK OF AMERICA, NA

TWO HUNDRED FIFTY DOLLARS

\$250.00

PAY TO THE
ORDER OF

FLORIDA DEPARTMENT OF ENVIRONMENTAL
PROTECTION
2600 BLAIRSTONE ROAD
TALLAHASSEE FL 32399-2400

Void after 180 days
FLORIDA POWER & LIGHT CO

Paul Cuthbert

⑈ 5000047120 ⑆ ⑆ 06 1 1 1 2788 ⑆ 3 29997776 1 ⑆

FLORIDA POWER & LIGHT CO
Vendor Name: FLORIDA DEPARTMENT OF ENVIRONMENTAL

Check Date : 12/21/2011
Check Number: 5000047120

Invoice Number	Invoice Date	Document Header Text	Gross Amount	Discount	Net Amount
FLO0002208	12/20/2011	PERMIT FEE	250.00	0.00	250.00
		Check Total.....			----- \$250.00