Florida Department of Environmental Protection

Northeast District Office
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256-7590

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

Voice 904-807-3300 FAX 904-448-4366

SUBMERGED LANDS AND ENVIRONMENTAL RESOURCES PROGRAM

March 11, 2009

In the Matter of an Application
for Permit By:
Progress Energy Florida, Inc.
John J. Hunter
Post Office Box 14042, PEF-903
St. Petersburg, Florida 32733

DEP File No. 38-272432-002-ES
County: Levy

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number 16-123456-001-ES for the upland excavation of a barge-slip, an access road and a stormwater management system issued under Part IV, Chapter 373, Florida Statutes, and Title 62, Florida Administrative Code.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57 of the Florida Statutes before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Petitions must be filed within 14-days of publication or receipt of this written notice. A petition by any person entitled to written notice under Section 120.60(3) of the Florida Statutes must be filed within 14 days of receipt of the written notice. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 of the Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition or request for mediation within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57 of the Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name, address, and telephone number of each petitioner; the Department permit identification number and the county in which the subject matter or activity is located;
(b) A statement of how and when each petitioner received notice of the Department action;
(c) A statement of how each petitioner's substantial interests are affected by the Department action;
(d) A statement of the material facts disputed by the petitioner, if any;
(e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
(f) A statement of which Rules or statutes the petitioner contends require reversal or modification of the Department action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

In addition to requesting an administrative hearing, any petitioner may elect to pursue mediation. The election may be accomplished by filing with the Department a mediation agreement with all parties to the proceeding (i.e., the applicant, the Department, and any person who has filed a timely and sufficient petition for a hearing). The agreement must contain all the information required by Rule 28-106.404. The agreement must be received by the clerk in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, within ten days after the deadline for filing a petition, as set forth above. Choosing mediation will not adversely affect the right to a hearing if mediation does not result in a settlement.

As provided in Section 120.573 of the Florida Statutes, the timely agreement of all parties to mediate will toll the time limitations imposed by Sections 120.569 and 120.57 for holding an administrative hearing and issuing a final order. Unless otherwise agreed by the parties, the mediation must be concluded within sixty days of the execution of the agreement. If mediation results in settlement of the administrative dispute, the Department must enter a final order incorporating the agreement of the parties. Persons seeking to protect their substantial interests that would be affected by such a modified final decision must file their petitions within fourteen days of receipt of this notice, or they shall be deemed to have waived their right to a proceeding under Sections 120.569 and 120.57. If mediation terminates without settlement of the dispute, the Department shall notify all parties in writing that the administrative hearing processes under Sections 120.569 and 120.57 remain available for disposition of the dispute, and the notice will specify the deadlines that then will apply for challenging the agency action and electing remedies under those two statutes.

This action is final and effective on the date filed with the Clerk of the Department unless a petition (or request for mediation) is filed in accordance with the above. Upon the timely filing of a petition (or request for mediation) this order will not be effective until further order of the Department.

Progress Energy Florida, Inc.
38-272432-002-ES

Any party to the order has the right to seek judicial review of the order under Section 120.68 of the Florida Statutes, by the filing of a notice of appeal under Rule 9.110 of the 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 when the Final Order is filed with the Clerk of the Department.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Gregory J. Strong
District Director

AMS/lb

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on 3/11/09 to the listed persons.

"FILED, on this date, pursuant to Section 120.52, F.S., with the designated Department Clerk, receipt of which is hereby acknowledged."

Linda Bratton 3/11/09
Clerk Date

Florida Department of Environmental Protection

Northeast District Office
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256-7590

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

Voice 904-807-3300 FAX 904-488-4366

ENVIRONMENTAL RESOURCE PERMIT
AND SOVEREIGN SUBMERGED LANDS AUTHORIZATION

PERMITTEE/AUTHORIZED ENTITY:
Progress Energy Florida, Inc.
John J. Hunter
Post Office Box 14042, PEF-903
St. Petersburg, Florida 32733

AGENT:
Amy L. Windom, P.E.
CH2M Hill
225 East Robinson Street, Suite 505
Orlando, Florida 32801-4321

PERMIT INFORMATION:
Permit Number: 38-272432-002-ES
Date of Issue: March 11, 2009
Expiration Date of Construction Phase: March 11, 2014
County: Levy
Project: For the upland excavation of a barge-slip, an access road and a stormwater management system

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This environmental resource permit is issued under the authority of Part IV of Chapter 373, F.S., and Title 62, Florida Administrative Code (F.A.C.) for the regulatory authority to construct, alter, abandon, remove, maintain, and operate the system [project activity and/or structure(s)] as described in the below Description of Project Activity and/or Structure(s). The appropriate proprietary authorization for the use of state-owned submerged lands is granted in accordance with Chapter 253 and Chapter 258, F.S., and Chapter 18-21, F.A.C., and Chapter 18-20, F.A.C., if located in an aquatic preserve. The activity is not exempt from the requirement to obtain an environmental resource permit nor is the activity exempt from the requirement to obtain proprietary authorization. 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. In addition, the project has been reviewed under a Coordination Agreement Between the U.S. Army Corps of Engineers, Jacksonville District, and the Department for a State Programmatic General Permit in accordance with Section 10 of the Rivers and Harbors Act of 1899 and Section 401 of the Clean Water Act and may contain Federal authorization to construct and operate the facility as described.

DESCRIPTION OF PROJECT ACTIVITY AND/OR STRUCTURE(S) -

This project is to conduct the upland excavation along the north bank of the Cross Florida Barge Canal for the construction of a barge slip and concrete parking area, construct a 50-foot wide heavy haul road from CR 40 to the upland excavation area with a bridge over the Inglis Lock Bypass Channel, and construct and operate a stormwater management system for runoff collected from the barge slip and parking area, heavy haul road, and bridge over the Bypass Barge Canal. The heavy haul road will include public entry access points on both the north bank of the bypass canal and west along the north bank of the barge canal. Existing Office of Greenways and Trails access roads will be intercepted and rerouted in accordance with attached plans. The total drainage area is 13.6 acres with 4.74 acres of impervious surface. The stormwater management system consists of seven dry swales and associated overflow structures. The swales will average 2 feet in depth. All stormwater in excess of the required treatment volume will discharge into the Cross Florida Barge Canal. The system provides adequate treatment storage and will recover the design storm event in less than 36 hours.

This project is located on Inglis Lock Bypass Channel, a class III waterbody in Section 06, Township 17 South, Range 17 East at Latitude 29°01'34.57", Longitude 82°37'08.57".

PERMIT

REGULATORY AUTHORIZATION -

This permit constitutes the authority sought under the provisions of Part IV of Chapter 373, F.S., and Title 62, Florida Administrative Code (F.A.C.) to construct and operate the system described above and show on the attached drawing(s), survey, and/or documents.

This activity requires regulatory authorization under the provisions of Part IV, Chapter 373, Florida Statutes (FS). The above named permittee has affirmatively demonstrated that the project as described above is in compliance with the criteria set forth in Section 373.414, FS.

This activity requires regulatory authorization under the provisions of Part II, Chapter 403.506(3), F.S. The above permittee has filed with the Department a statement declaring that the construction of such facilities is necessary for the timely construction of the proposed Levy Nuclear Power Plant (LNP).

Pursuant to Part II, Chapter 403.506(3), F.S. this permit shall be superseded upon incorporation by the department into a final certification upon completion of construction of the system described above. The described system shall become part of the certified electrical power plant upon completion of construction.

The duration of the construction phase shall be for a period of five (5) years from the date of issuance of this permit, in accordance with Section 62-343.110, subsection (1), paragraph (c), F.A.C. The operation and maintenance phase shall be perpetual in accordance with Section 62-343.110, subsection (1), paragraph (d), F.A.C.

WATER QUALITY CERTIFICATION

This permit constitutes certification of compliance with water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1344.

PROPRIETARY AUTHORIZATION - LEASE OR EASEMENT REQUIRED

This activity also requires a proprietary authorization, as the activity is located on sovereign 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, 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 Chapter 253 and Chapter 258, if located within an Aquatic Preserve, and Chapters 18-20 and 18-21, F.A.C, and Rule 62-343.075, F.A.C., and the policies of the Board of Trustees.

As staff to the Board of Trustees, the Department has reviewed the activity described above, and has determined that the activity requires a public easement for the use of those lands, pursuant to Chapter 253.77, Florida Statutes. The final documents required to execute the public easement have been sent to the Division of State Lands. The Department intends to issue the public easement, upon satisfactory execution of those documents. **You may not begin construction of this activity on state-owned, sovereign submerged lands until the public easement has been executed to the satisfaction of the Department.**

SPGP - REVIEW - AUTHORIZATION NOT GRANTED

Your project has been reviewed for compliance with a State Programmatic General Permit (SPGP). Your proposed activity as outlined on the attached drawings does **NOT meet the criteria for compliance with the U.S. Army Corps of Engineers (Corps) State Programmatic General Permit (SPGP).** A copy of your notice 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**. For further information, you should contact the USACOE at 904-232-1661.

Authority for review - an agreement with the U.S. Army Corps of Engineers entitled "Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection State Programmatic General Permit, Section 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act".

PERMIT CONDITIONS -

The above named permittee, Progress Energy Florida, Inc., 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, pending satisfactory execution of the sovereign submerged lands authorization documents. **This permit is subject to the limits, conditions, and locations of work shown in the attached drawings, and is also subject to the attached 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 and attached hereto.

Executed in Jacksonville, Florida.

Issued this 11th day of March, 2009.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Gregory J. Strong
District Director

Enclosed
- Regulatory General Conditions
- Regulatory Specific Conditions
- Proprietary General Consent Conditions
- Proprietary Specific Conditions as applicable
- SPGP General Conditions
- SPGP Specific Conditions as applicable

Copy to
- USACOE, Regulatory Section, Jacksonville

DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT
STATE OF FLORIDA

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT, Department File Number 38-272432-002-ES and all copies were mailed before the close of business on 3/11/09, or on the date, pursuant to Section 120.52, F.S., with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk 3/11/09
Date

REGULATORY GENERAL CONDITIONS
DEP File No.: 38-272432-002-ES
Progress Energy Florida, Inc.

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 does not cause violations of state water quality standards. The permittee shall implement best management practices for erosion and a pollution control to prevent violation of state water quality standards. Temporary erosion control shall be implemented prior to and during construction and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. Water quality data for the water discharged from the permittee's property or into the surface waters of the state shall be submitted to the Department as required by the permit. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association or Methods for Chemical Analyses of Water and Wastes by the U.S. Environmental Protection Agency. If water quality data are required, the permittee shall provide data as required on volumes of water discharged, including total volume discharged during the days of sampling and total monthly volume discharged from the property or into surface waters of the state.

5. Department staff must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the Department as a permit prior to the dewatering event as a permit modification. The permittee is advised that the rules of the Southwest Florida Water Management District state that a water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.

6. 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.

7. Off site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operation schedules satisfactory to the Department.

8. The permittee shall complete construction of all aspects of the surface water management system, including wetland compensation (grading mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.

9. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:

a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.

b. Any existing septic tanks on site shall be abandoned at the beginning of construction.

c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction.

10. All surface water management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.

11. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the Department a written notification of commencement using an "Environmental Resource Permit Construction Commencement" notice (Form No. 62-343.900(3), F.A.C.) indicating the actual start date and the expected completion date.

12. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the occupation of the site or operation 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.

13. Within 30 days after completion of construction of the permitted activity, 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 the required "Environmental Resource Permit As-Built Certification by a Registered Professional" (Form No. 62-343.900(5), F.A.C.), and "Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase" (Form 62-343-900(7), F.A.C.). Additionally, if deviation from the approved drawings are discovered during the certification process the certification must be accompanied by a copy of the approved permit drawings with deviations noted.

14. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the Department, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.

15. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the conditions herein, the Department determines the system to be in compliance with the permitted plans, and the entity approved by the Department accepts responsibility for operation and maintenance of the system. The permit may not be transferred to the operation and maintenance entity approved by the Department 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 operation and maintenance entity approved by the Department, if different from the permittee. Until a transfer is approved by the Department pursuant to Section 62-343.110(1)(d), F.A.C., the permittee shall be liable for compliance with the terms of the permit.

16. Should any other regulatory agency require changes to the permitted system, the Department shall be notified of the changes prior to implementation so that a determination can be made whether a permit modification is required.

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17. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations including a determination of the proposed activities' compliance with the applicable comprehensive plan prior to the start of any activity approved by this permit.

18. 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 40D-4 or Chapter 40D-40, F.A.C.

19. The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, other activity involving the use of sovereign 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.

20. 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.

21. 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 binding unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.

22. 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.

23. 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 Department rules, regulations and conditions of the permits.

24. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the Department and the Florida Department of State, Division of Historical Resources.

25. The permittee shall immediately notify the Department in writing of any previously submitted information that is later discovered to be inaccurate.

REGULATORY SPECIFIC CONDITIONS
DEP File No.: 38-272432-002-ES
Progress Energy Florida, Inc.

1. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, the permittee shall cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee shall contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the Department of Environmental Protection at 904-807-3300. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes. The following excerpt from **872.05 Unmarked Human Burials is provided for informational purposes:**

872.05(4) DISCOVERY OF AN UNMARKED HUMAN BURIAL OTHER THAN DURING AN ARCHAEOLOGICAL EXCAVATION.--When an unmarked human burial is discovered other than during an archaeological excavation authorized by the state or an educational institution, **all activity that may disturb the unmarked human burial shall cease immediately, and the district medical examiner shall be notified. Such activity shall not resume unless specifically authorized by the district medical examiner or the State Archaeologist.**

2. Prior to commencement of work authorized by this permit, the permittee shall provide written notification of the date of the commencement and proposed schedule of construction to the Department of Environmental Protection, Northeast District, Submerged Lands/Environmental Resources Program, 7825 Baymeadows Way, Suite B-200, Jacksonville, Florida 32256-7590.

3. All wetland areas or water bodies, which are outside the specific limits of construction authorized by this permit shall be protected from erosion, siltation, scouring, excess turbidity, or dewatering. Turbidity curtains, hay bales, and other such erosion/turbidity control devices shall be installed pursuant to Chapter 6 of The Florida Land Development Manual, A Guide to Sound Land and Water Management, prior to the commencement of dredging, filling, or construction activity. The devices shall remain functional at all times and shall be maintained on a regular basis. Turbidity and/or sedimentation resulting from any activities associated with the project shall not be allowed to enter waters of the State.

4. Floating turbidity curtains (FDOT Type II or equivalent) shall be used to surround all open water work areas and shall remain in place until such time as turbidity levels within these work areas have reduced sufficiently so as not to exceed the State water quality standards.

5. The work shall be done during periods of average or low water.

6. The project shall comply with applicable State Water Quality Standards, namely:
Surface Waters, Minimum Criteria, General Criteria - **62-302.500**,
Class III Waters - Recreation, Propagation and Maintenance of a Healthy, Well-Balanced Population of Fish and Wildlife. - **62-302.400.**

7. There shall be no stockpiling of tools, materials (i.e., lumber, pilings, riprap, sheet piles) within wetlands, along the shoreline within the littoral zone, or elsewhere within waters of the state unless specifically approved in this permit.

8. All cleared vegetation (including logging slash), scrap wood, trash, garbage, construction debris and other foreign debris or material shall be removed from the wetlands and placed in approved landfill or other authorized upland location within 14 days of completion of the work authorized in this permit.

9. 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.

10. Outside the specific limits of construction authorized by this permit, any damage to the wetlands/shoreline/littoral zone as a result of the boardwalk/dock/pier/bulkhead construction shall be repaired by reestablishing the pre-construction elevations and replanting vegetation of the same species, size and density as that in the adjacent undisturbed wetland or littoral areas.

11. The permittee shall comply with the attached General Conditions For Authorizations To Use Sovereignty Submerged Lands for all activities on sovereign submerged lands

12. **General Listed-Species Surveys**

a. The applicant will coordinate with the FWC to obtain and follow the current survey protocols for all listed species that may occur within the proposed construction area, with appropriate buffers as defined by the survey protocols, prior to conducting detailed surveys.

b. Surveys will be conducted prior to clearing and construction in accordance with the survey protocols. The results of those detailed surveys will be provided to the FWC and coordination will occur with the FWC on appropriate impact mitigation methodologies.

Article IV, Sec. 9, Fla. Constitution; Section 379.2291, Florida Statutes (F.S.); and Chapter 68A-27, Florida Administrative Code (F.A.C.).

Gopher Tortoise

Information on the gopher tortoise and permitting can be found on the FWC's website.

c. The Applicant will conduct surveys for gopher tortoises (*Gopherus polyphemus*), in accordance with the FWC-approved Gopher Tortoise Management Plan (adopted in 2007) and current FWC-approved Gopher Tortoise Permitting Guidelines or subsequent versions of the Plan or Guidelines. A burrow survey covering a minimum of 15% of the potential gopher tortoise habitat to be impacted by development is required in order to apply for a relocation permit. Immediately prior to capturing tortoises for relocation, a 100% survey is required to effectively locate and mark all potentially occupied tortoise burrows and to subsequently remove the tortoises. Burrow survey methods are outlined in Appendix 4, Methods for Burrow Surveys on Development (Donor) and Recipient Sites. Surveys must be conducted within 90 days of when an application is submitted to the FWC; however, surveys shall not be conducted within 30 days of any ground disturbance or clearing activities on the donor site. All surveys completed by authorized agents or other permittees are subject to field verification by the FWC. The gopher tortoise surveys should be conducted during the months of April through October.

d. A permit is not required for activities that occur more than 25 feet from a gopher tortoise burrow entrance, provided that such activities do not harm gopher tortoises or violate rules protecting gopher tortoises. Examples of such violations noted in the past by the FWC include, but are not limited to, killing or injuring a tortoise more than 25 feet away from its burrow; harassing a tortoise by blocking access to its burrow, and altering gopher tortoise habitat to such an extent that resident tortoises are taken.

e. The Applicant will coordinate with and provide to the FWC a completed gopher tortoise relocation permit(s) application in accordance with the FWC-approved Gopher Tortoise Management Plan and Gopher Tortoise Permitting Guidelines as a post-certification submittal. This permit application will provide information on the location for on-site recipient areas and any off-site FWC approved recipient site, as well as, appropriate mitigation contributions.

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f. Any commensal species observed during the burrow excavations that are listed by the U.S. Fish and Wildlife Service (USFWS) or FWC will be relocated in accordance with the applicable guidelines for that species.

g. To the maximum extent possible, all staging and storage areas should be sited to avoid impacts to gopher tortoise burrows and habitat.

Article IV, Sec. 9, Fla. Const.; Section 379.2291, F.S.; and Rule 68A-27.004, F.A.C.

Florida Manatee

h. The Standard Manatee Conditions for In-Water Work (revision 2005) shall be followed for all in-water activity located where waters are accessible to manatees. These conditions are enclosed as Attachment 1. Blasting or pile hammering activities to break rock shall be prohibited in or adjacent to waters accessible to manatees. If no other alternative exists, a modification of these conservation measures can be requested. An adequate Blast and Protected Species Watch Plan must be submitted to and approved by the Imperiled Species Management Section of the FWC prior to these methodologies being used.

i. At least 60 days prior to the beginning of in-water construction or demolition activities located where waters are accessible to manatees, the permittee shall contact the FWC to determine whether observers will be required, how many observers will be needed and who those observers will be. The permittee may provide the FWC with a list of prospective observers or the FWC will provide a list. Observers must be approved by the FWC prior to construction and be equipped with polarized sunglasses to aid in observation. The manatee observer must be on site during all in-water construction activities and will advise personnel to cease operation upon sighting a manatee within 50 feet of any in-water construction activity. Movement of a work barge, other associated vessels, or any in-water work associated with construction or demolition activities shall not be performed after sunset, when the possibility of spotting manatees is negligible. Observers shall maintain a log detailing manatee sightings, work stoppages, and other protected species-related incidents. A report, summarizing all activities noted in the observer logs, the location and name of project, and the dates and times of work shall be submitted within 30 days following project completion to the FWC's Imperiled Species Management Section at: 620 South Meridian Street, 6A, Tallahassee, Florida 32399-1600, or e-mailed at fcmpmail@myfwc.com.

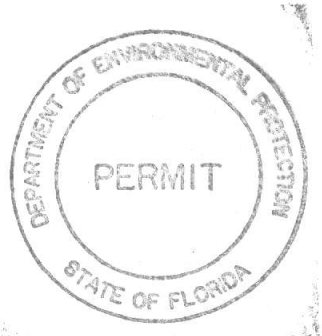
j. If a cofferdam is used during in-water construction to minimize release of sediment to the Cross Florida Barge Canal, the area inside (behind) the cofferdam must be checked for the presence of manatees during and after installation of the barrier before further work occurs to determine that manatees have not been entrapped.

STORMWATER SPECIFIC CONDITIONS:

NOTICE: If any of the specific conditions listed below are in conflict with any of the general conditions listed in this permit, the specific conditions shall take precedence over the general condition(s).

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 deviations 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 62-302 and 62-4, 40D-4 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.

3. The Permittee must obtain a standard general or an individual permit pursuant to 40D-4 and 40D-40, F.A.C. prior to beginning construction of any work that requires a permit under Part IV of Chapter 373, Florida Statutes, that is 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.

7. 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.

8. This permit for construction will expire five (5) years from the date of issuance. If construction is not completed within the specified time period, and the Permittee whishes to complete construction, then pursuant to F.A.C. Rule 62-343.120, the Permittee shall apply for an extension of the permit on forms and in a manner prescribed by the Department sixty (60) days prior to the expiration date of this permit.

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

9. 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.

10. 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.

DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT
STATE OF FLORIDA

11. 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.

    (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. If responsible maintenance entity is different from the Permittee, Form No. 62-343.900(7), F.A.C., "Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase" shall be submitted.

12. 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 40D-4 and 40D-40, F.A.C. All terms and conditions of this permit shall be binding upon the transferee.

III. Maintenance Phase – Maintenance Requirements

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

    (a) Removal of trash and debris on at least a bi-monthly basis.

    (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.

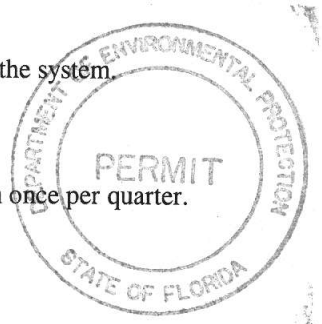
    (d) Stabilization and restoration of eroded areas with permanent vegetative cover.

    (e) Mowing and removal of grass clippings on at least a bi-monthly basis.

    (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.



14. Outfall Structures and Ditches

Outfall structures and 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.

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. In this condition, the permittee must submit a permit modification application within sixty (60) days of the date the system was determined to be design deficient.

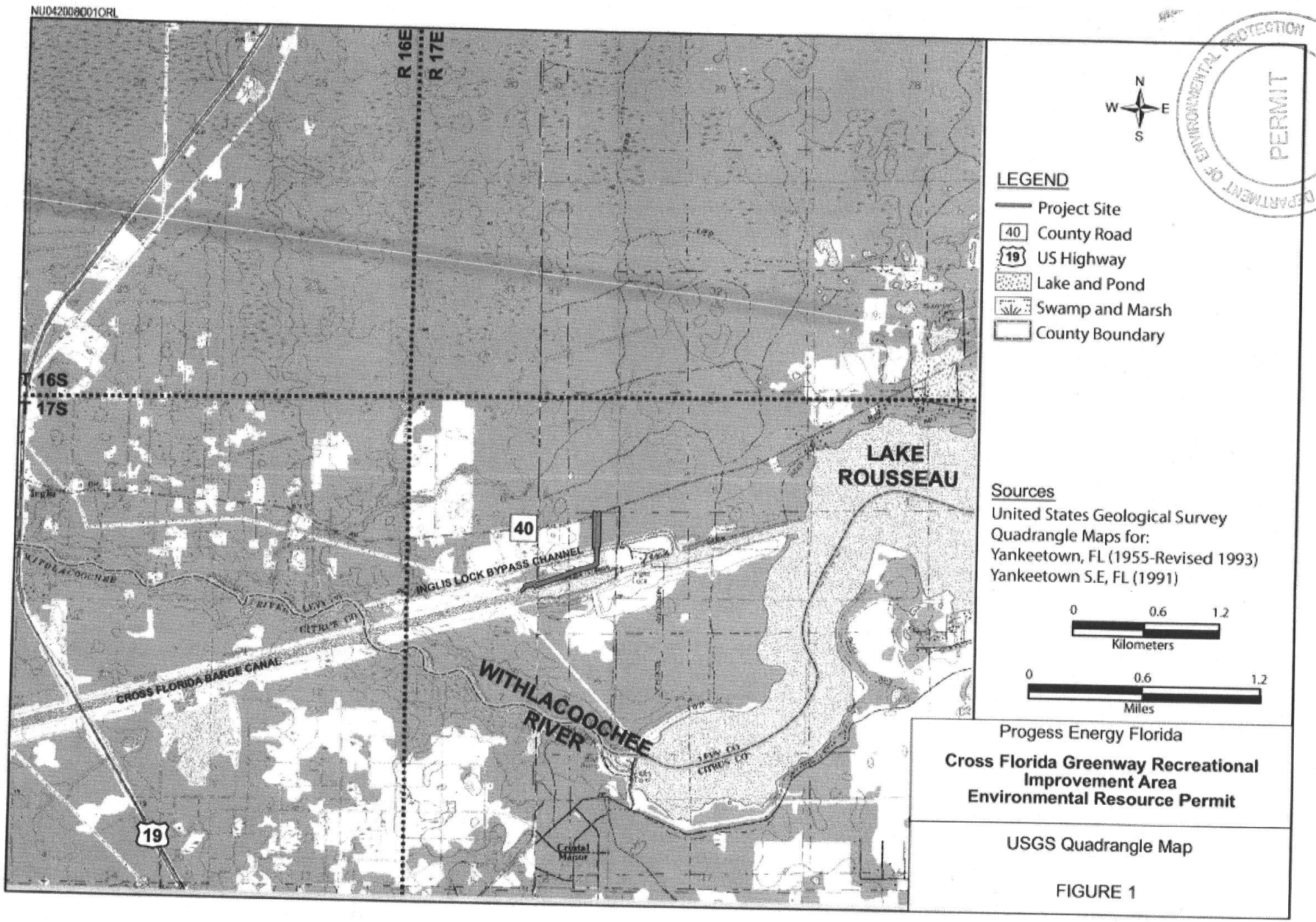
17. The Permittee shall immediately notify the Department by telephone whenever a serious problem occurs at this facility. Notification shall be made to the Northeast District Office at (904) 807-3300. Within 7 days of telephone notification, the Permittee shall submit to the Department a written report explaining the extent of the problem, its cause, and what actions have been or will be taken to correct the problem.

PUBLIC INTEREST

18. Upon receipt of the federal authorization for the Levy Nuclear Facility, the Permittee shall grant to the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida ("Board of Trustees") a perpetual non-exclusive 18-foot-wide easement for a public recreational trail over, across and upon an approximately 40-mile-long corridor owned by the Permittee over the raised rail bed from Dunnellon, north to Chiefland, within the existing undeveloped utility corridor ("Board of Trustees' Easement"), contingent upon State of Florida Department of Environmental Protection, Division of State Lands' ("DSL") approval of (1) the form and content of the final title insurance commitment, survey, environmental site assessment ("Due Diligence Products"), (2) the terms and conditions of the Board of Trustees' Easement, and (3) the Title, Possession and Lien Affidavit and Environmental Affidavit to be executed by the Permittee. The Permittee's utility or other facilities may also be located on the raised rail bed. State of Florida Department of Environmental Protection, Office of Greenways and Trails ("OGT") and the Permittee will work together in designing and constructing their respective facilities to assure that the facilities can be co-located on the raised rail bed in a compatible manner. The Permittee's right to use the corridor in the future for the construction, operation and maintenance of electric transmission and distribution lines and other associated utility facilities (including access roads or other linear facilities) or for other uses shall not unreasonably interfere with OGT's design of the trail or its ability to effectively and efficiently manage the Board of Trustees' Easement as a public recreational trail, or the Permittee will relocate such trail facilities at the Permittee's expense and in a manner acceptable to the Board of Trustees and OGT that will retain its intended public function design of the trail or its ability to effectively and efficiently manage the Board of Trustees' Easement as a public recreational trail. In addition to the Permittee's grant of the Board of Trustees' Easement to the Board of Trustees, the Permittee shall also be required to pay compensation to the Board of Trustees in accordance with the terms and conditions of the PEF Easement (hereinafter defined).

Notwithstanding the foregoing, if the Permittee fails to provide the Board of Trustees with one or more of the Due Diligence Products or is unable or unwilling to provide marketable title to the Board of Trustees' Easement and the Board of Trustees does not accept the Board of Trustees' Easement, the Permittee shall instead be required to pay compensation in accordance with terms and conditions of Easement No. 31959 from the Board of Trustees to Permittee over approximately 27.017 acres of the Marjorie Harris Carr Cross Florida Greenway for activities related to Permittee's construction and operation of the Levy Nuclear Power Plant ("PEF Easement"). Furthermore, if the final DSL-approved appraised value of the Board of Trustees' Easement is reduced by 20% or more, as a result of defects disclosed in the Due Diligence Products that are identified by DSL which cannot be cured by the Permittee without engaging in litigation or precursors to litigation or paying more than fair market value to cure such defects, the Permittee has the right to pay compensation in accordance with the terms and conditions of the PEF Easement instead of granting the Board of Trustees' Easement.

The PEF Easement shall automatically and immediately terminate upon the Permittee's withdrawal of its federal permit application for the Levy Nuclear Power Plant or the federal government's denial of the permit. Upon termination or expiration of the PEF Easement PEF shall restore the lands over which the PEF Easement is granted to substantially the same condition it was upon Commencement Date of the PEF Easement, unless the Board of Trustees elects not to require PEF to remove certain improvements and/or facilities and restore all or a portion of the easement area. PEF agrees that upon termination of the PEF Easement all authorization granted thereunder shall cease and terminate.

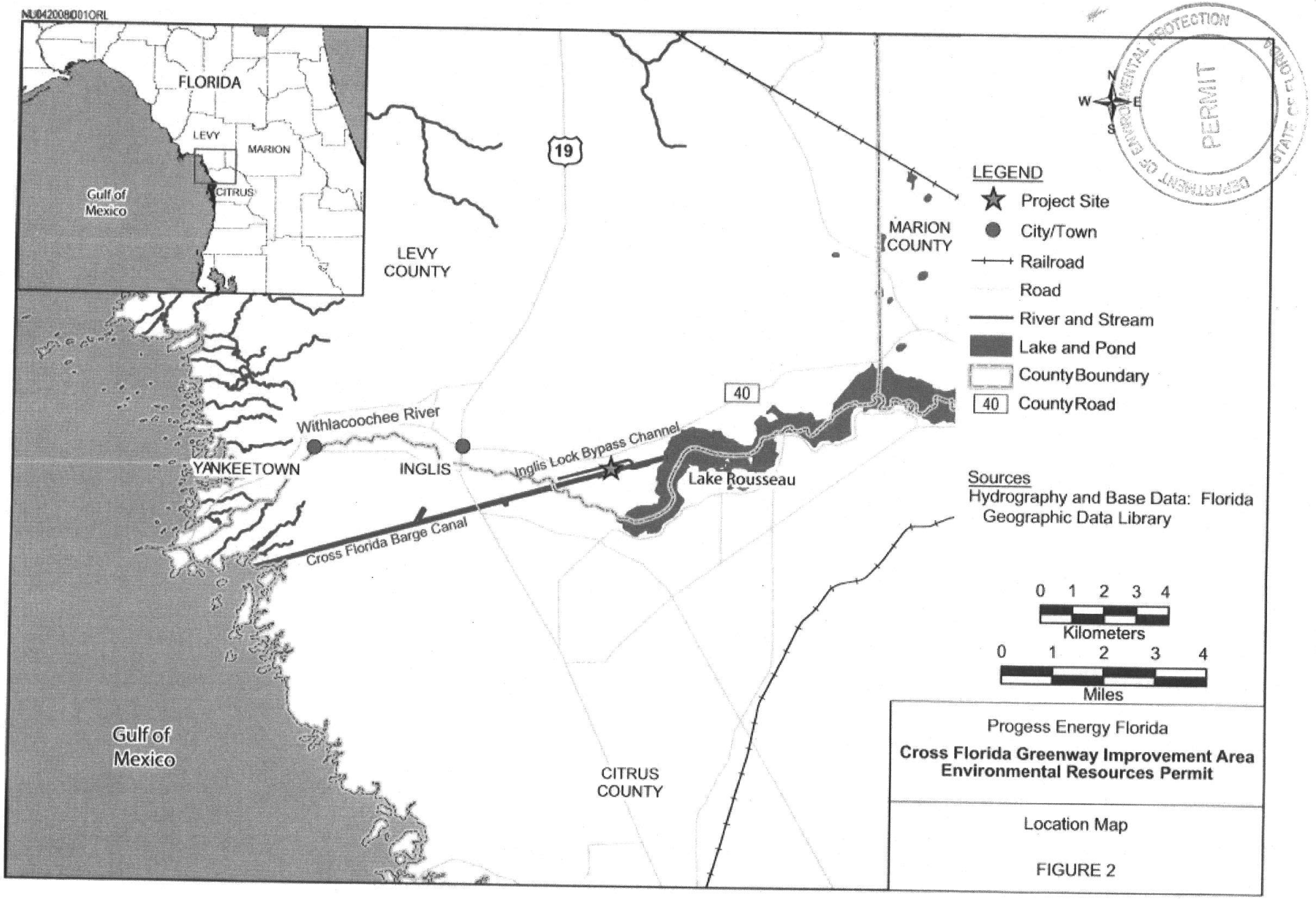


Progess Energy Florida

Cross Florida Greenway Recreational Improvement Area
Environmental Resource Permit

USGS Quadrangle Map

FIGURE 1


NU042008001ORL
FLORIDA
LEVY
MARION
CITRUS
Gulf of Mexico
LEVY COUNTY
MARION COUNTY
CITRUS COUNTY
19
40
Withlacoochee River
YANKEETOWN
INGLIS
Inglis Lock Bypass Channel
Lake Rousseau
Cross Florida Barge Canal
N
W
E
S
LEGEND
Project Site
City/Town
Railroad
Road
River and Stream
Lake and Pond
County Boundary
40 County Road
Sources
Hydrography and Base Data: Florida Geographic Data Library
0 1 2 3 4
Kilometers
0 1 2 3 4
Miles
Progess Energy Florida
Cross Florida Greenway Improvement Area
Environmental Resources Permit
Location Map
FIGURE 2
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF FLORIDA
PERMIT

NU042008001ORL

LEGEND

40 County Road

Citrus County, FL

Symbol	Unit Name	Rating
5	Basinger fine sand	B/D
7	Myakka fine sand	B/D
10	Pompano fine sand, depressional	D
11	Tavares fine sand, 0 to 5 percent slopes	A
12	Immokalee fine sand	B/D
22	Quartzipsamments, 0 to 5 percent slopes	A
28	Redlevel fine sand	C
36	EauGallie fine sand	B/D
48	Arents, 45 to 65 percent slopes	A
50	Kanapaha fine sand, 0 to 5 percent slopes	B/D
53	Boca fine sand	B/D
55	Udorthents, 0 to 5 percent slopes	C
57	Ona fine sand	B/D
58	Myakka, limestone substratum- EauGallie, limestone substratum complex	B/D
59	Boca fine sand	D
60	Broward fine sand	C
99	Water	

Levy County, FL

Symbol	Unit Name	Rating
2	Tavares fine sand, 1 to 5 percent slopes	A
4	Millhopper fine sand, 1 to 5 percent slopes	A
6	Candler fine sand, 1 to 5 percent slopes	A
8	Smyrna fine sand	B/D
11	Placid and Samsula soils, depressional	D
13	Wekiva fine sand	D
14	Shadeville-Otela complex, 1 to 5 percent slopes	B
17	Adamsville fine sand, 0 to 5 percent slopes	C
21	Pompano fine sand	B/D
22	Holopaw fine sand	B/D
23	Zolfo sand	C
32	Otela-Tavares complex, 1 to 5 percent slopes	A
34	Cassia-Pomello complex	C
38	Myakka sand	B/D
41	Demory muck, occasionally flooded	D
48	Lutterloh-Moriah complex, 0 to 5 percent slopes	C
50	Hiconia fine sandy loam, depressional	D
55	Pedro-Jonesville-Shadeville complex, 0 to 5 percent slopes	C
68	Myakka, limestone substratum-Immokalee complex	B/D
69	Broward-Lutterloh, limestone substratum, complex	C
74	Arents, 0 to 5 percent slopes	B
99	Water	

0 2,500 5,000 FEET

APPROXIMATE SCALE

Sources

NRCS Web Soil Survey:
Citrus County, FL
Levy County, FL

N W E S

Progess Energy Florida

Cross Florida Greenway Recreational Improvement Area Environmental Resource Permit

Soils Map

FIGURE 3

DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT
STATE OF FLORIDA

NU042008001ORL

DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF FLORIDA
PERMIT

N
W E
S

LEGEND

County Boundary

Project Site

40 County Road

Sources

Aerials: SWFWMD 2006

0 0.25 0.5
Kilometers

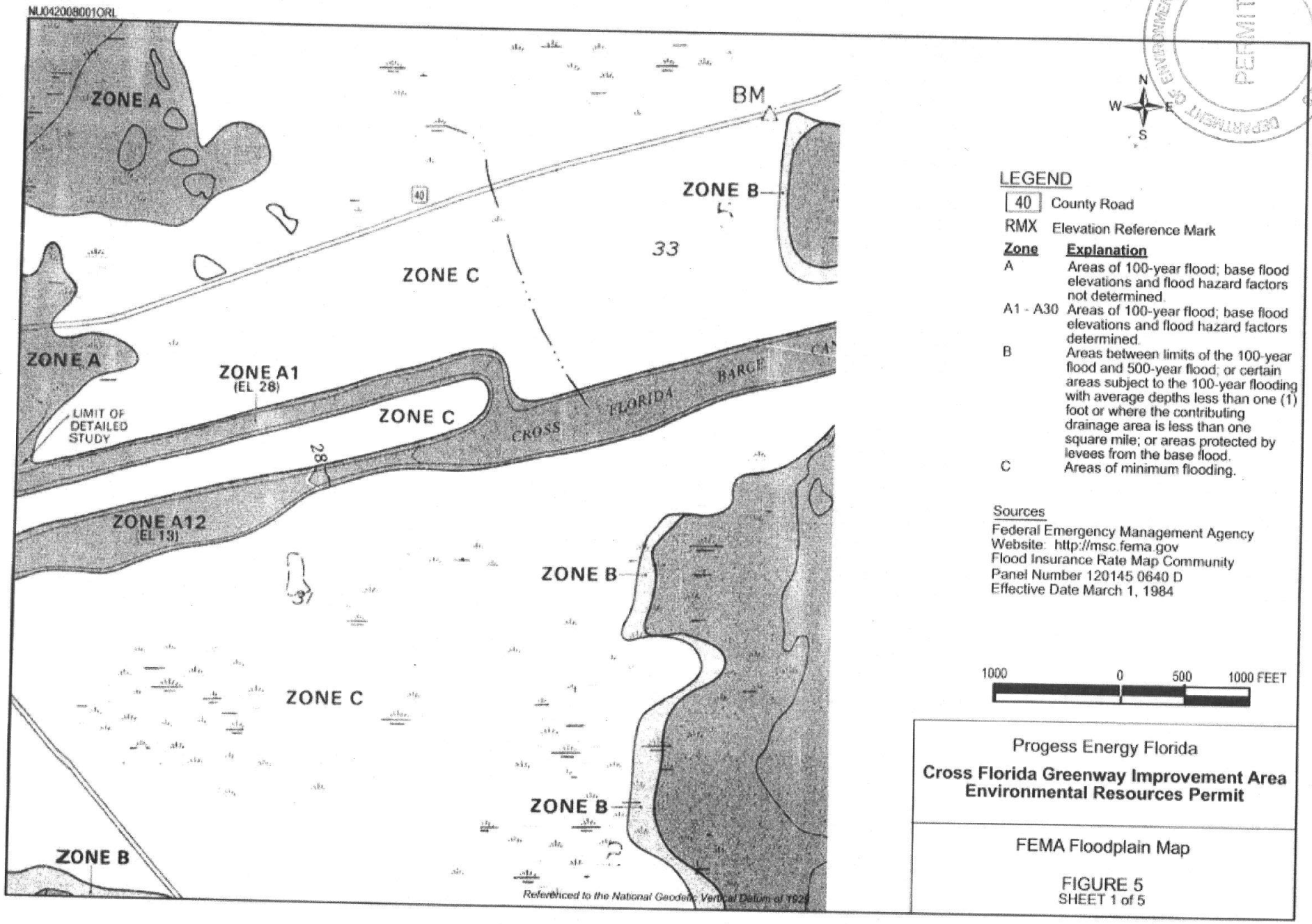
0 0.25 0.5
Miles

Progess Energy Florida

Cross Florida Greenway Recreational Improvement Area Environmental Resource Permit

Project Aerial Map

FIGURE 4



DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF FLORIDA
PERMIT

N
W E
S

LEGEND

40 County Road

RMX Elevation Reference Mark

Zone	Explanation
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A1 - A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to the 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood.
C	Areas of minimum flooding.

Sources

Federal Emergency Management Agency
Website: http://msc.fema.gov
Flood Insurance Rate Map Community
Panel Number 120145 0640 D
Effective Date March 1, 1984

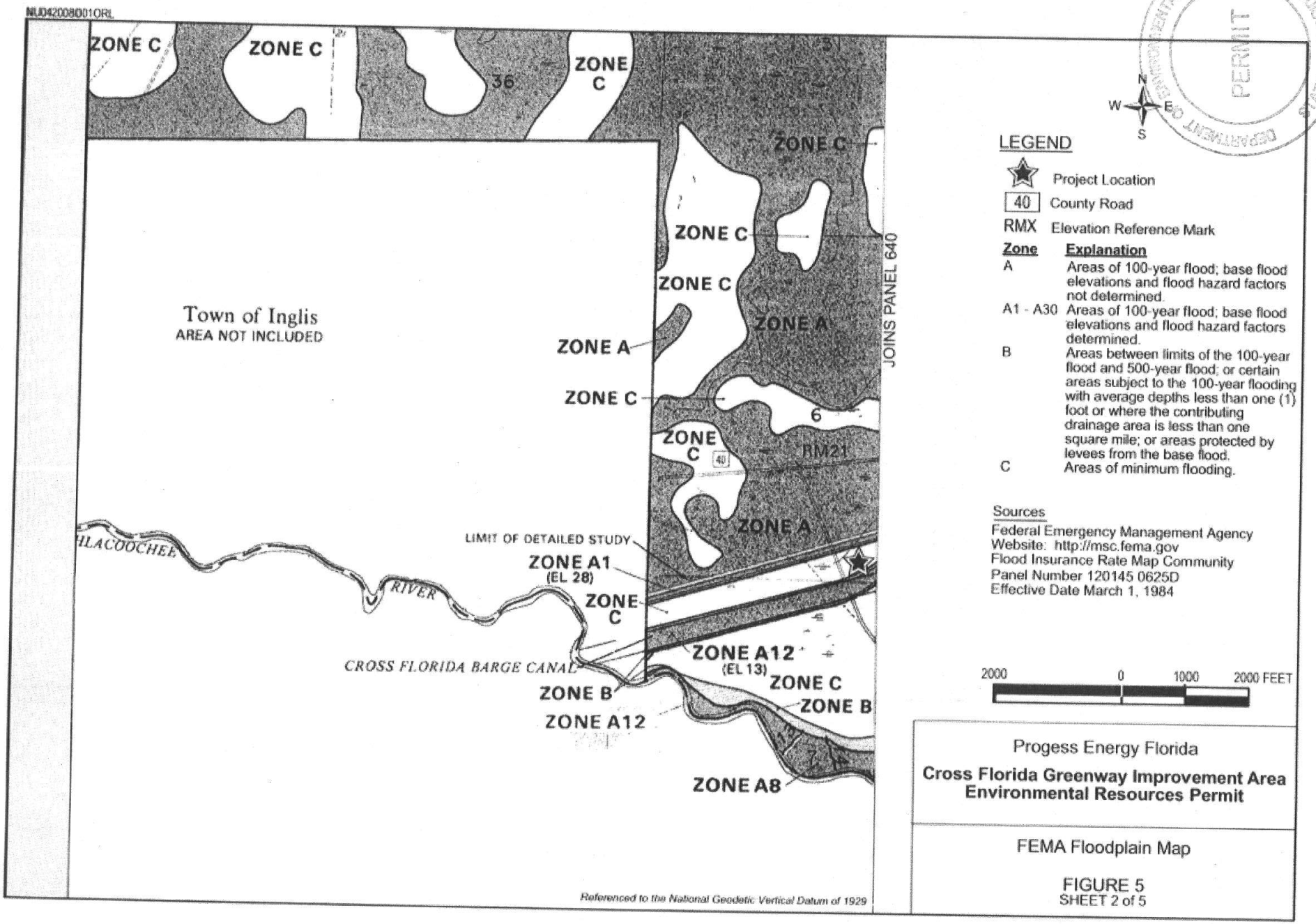
1000 0 500 1000 FEET

Progess Energy Florida

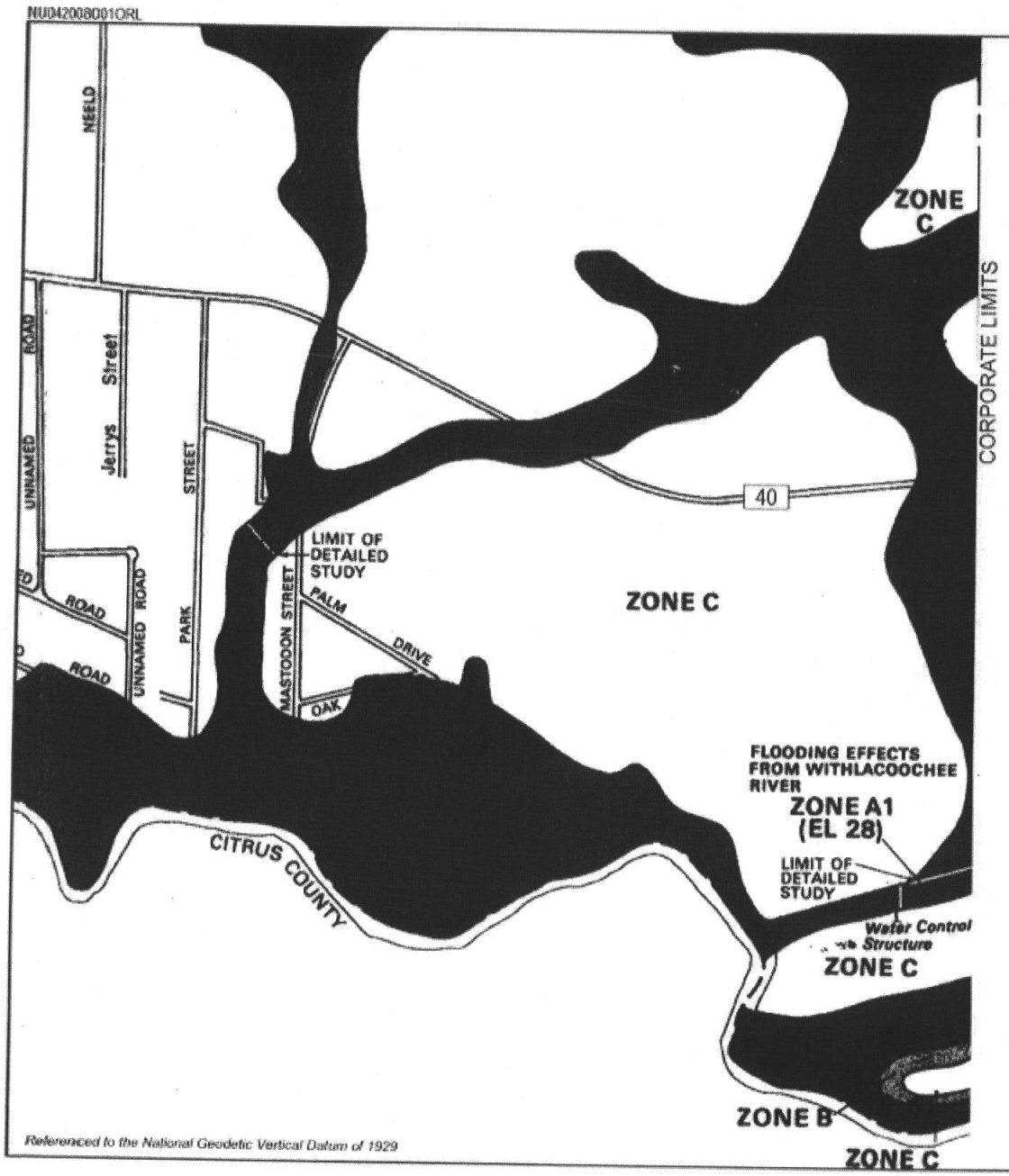
Cross Florida Greenway Improvement Area
Environmental Resources Permit

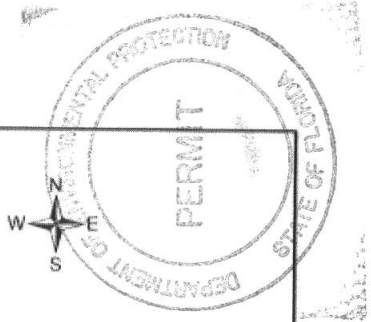
FEMA Floodplain Map

FIGURE 5
SHEET 1 of 5



DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT
STATE OF FLORIDA





LEGEND

40	County Road
RMX	Elevation Reference Mark

Zone	Explanation
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A1 - A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to the 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood.
C	Areas of minimum flooding.

Sources

Federal Emergency Management Agency
Website: http://msc.fema.gov
Flood Insurance Rate Map Community
Panel Number 120586 0005 B
Effective Date March 1, 1984

800 0 800 FEET

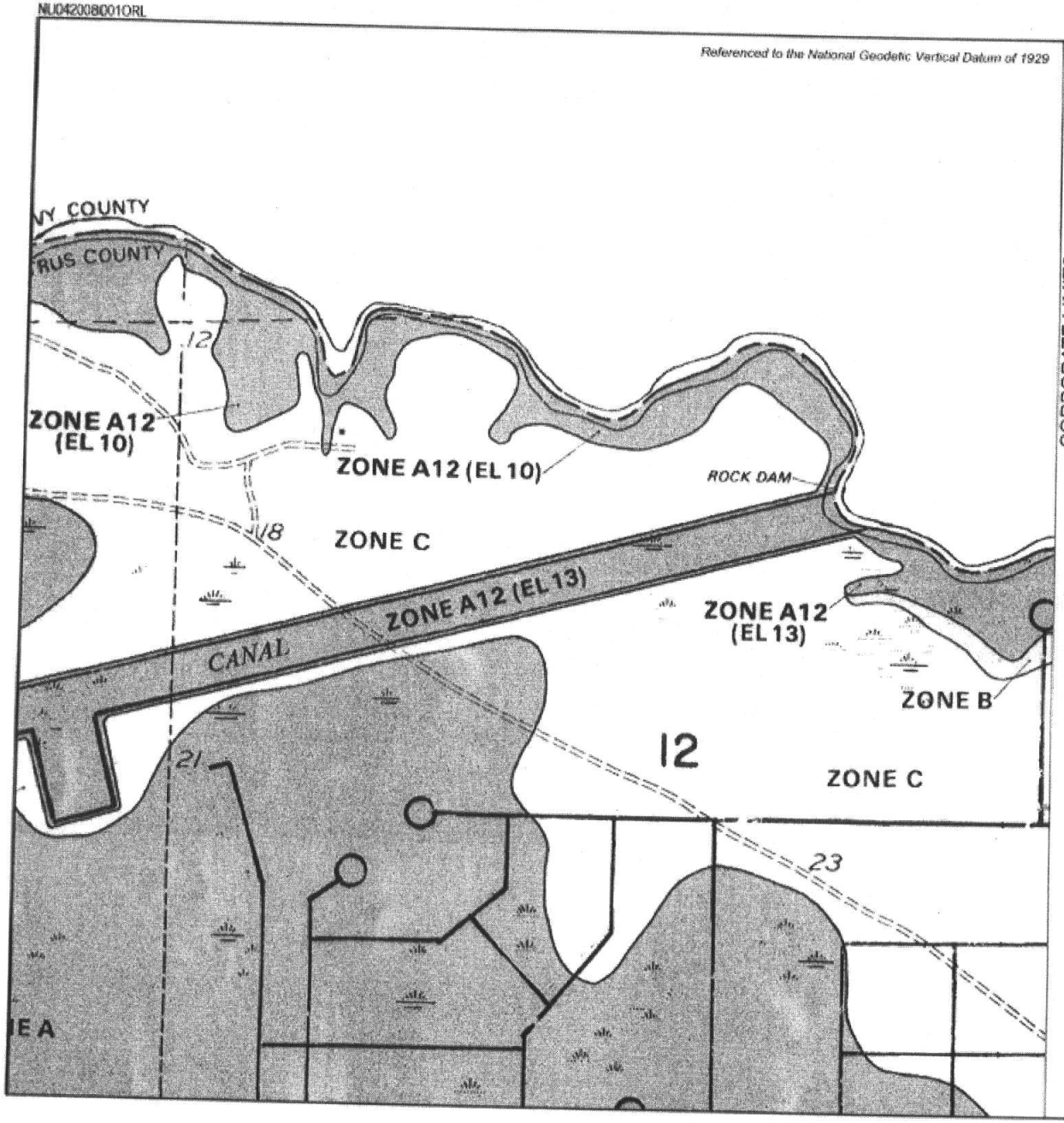
Progess Energy Florida

Cross Florida Greenway Improvement Area Environmental Resources Permit

FEMA Floodplain Map

FIGURE 5
SHEET 3 of 5

NU042008001ORL



DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF FLORIDA
PERMIT

N
W E
S

LEGEND

40 County Road

RMX Elevation Reference Mark

Zone	Explanation
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A1 - A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to the 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood.
C	Areas of minimum flooding.

Sources

Federal Emergency Management Agency
Website: http://msc.fema.gov
Flood Insurance Rate Map Community
Panel Number 120063 0020 B
Effective Date August 15, 1984

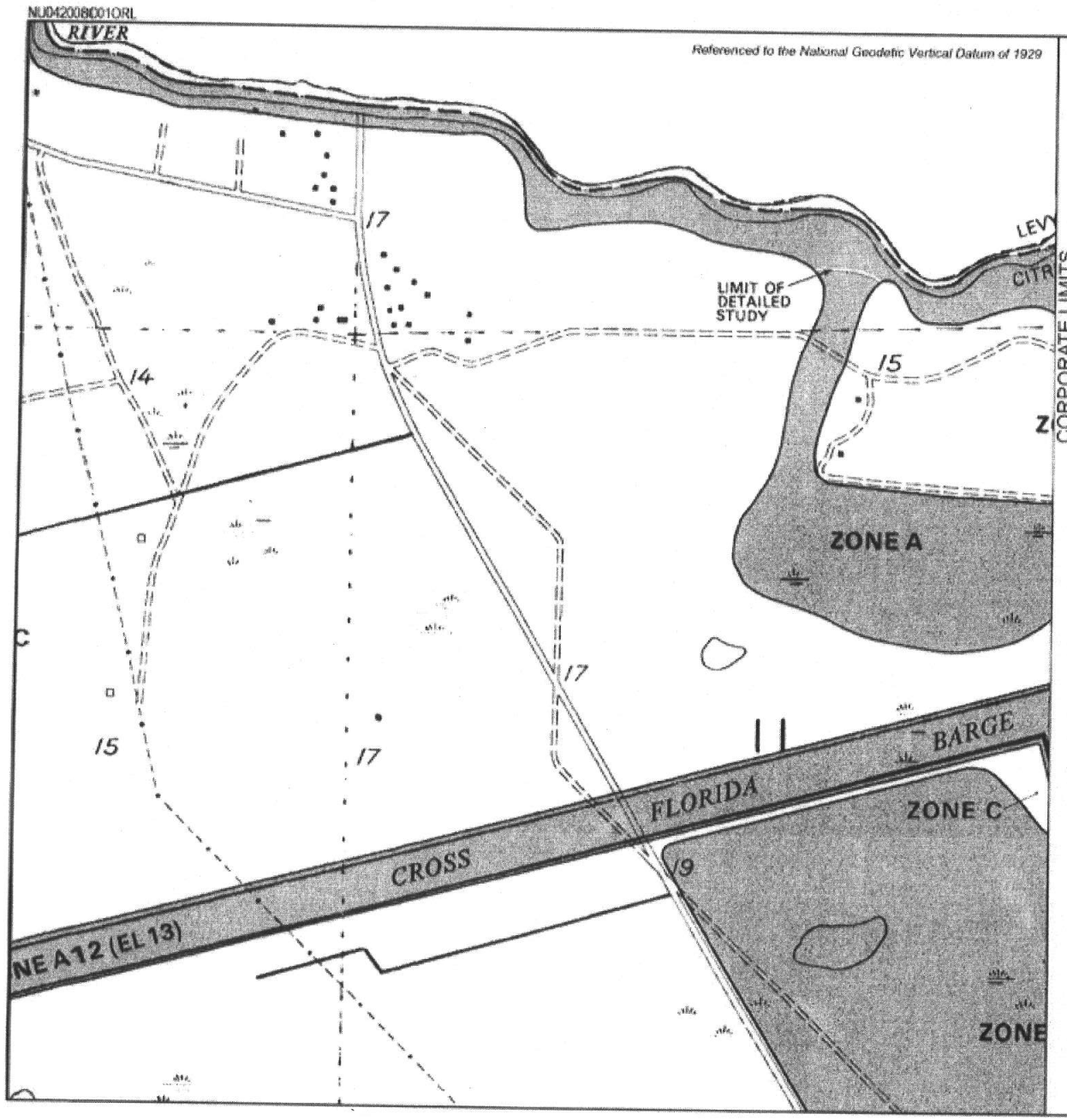
1000 0 500 1000 FEET

Progess Energy Florida

Cross Florida Greenway Improvement Area Environmental Resources Permit

FEMA Floodplain Map

FIGURE 5
SHEET 4 of 5



DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT
STATE OF FLORIDA

N
W E
S

LEGEND

40 County Road

RMX Elevation Reference Mark

Zone	Explanation
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A1 - A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to the 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood.
C	Areas of minimum flooding.

Sources

Federal Emergency Management Agency
Website: http://msc.fema.gov
Flood Insurance Rate Map Community
Panel Number 120063 0020 B
Effective Date August 15, 1984

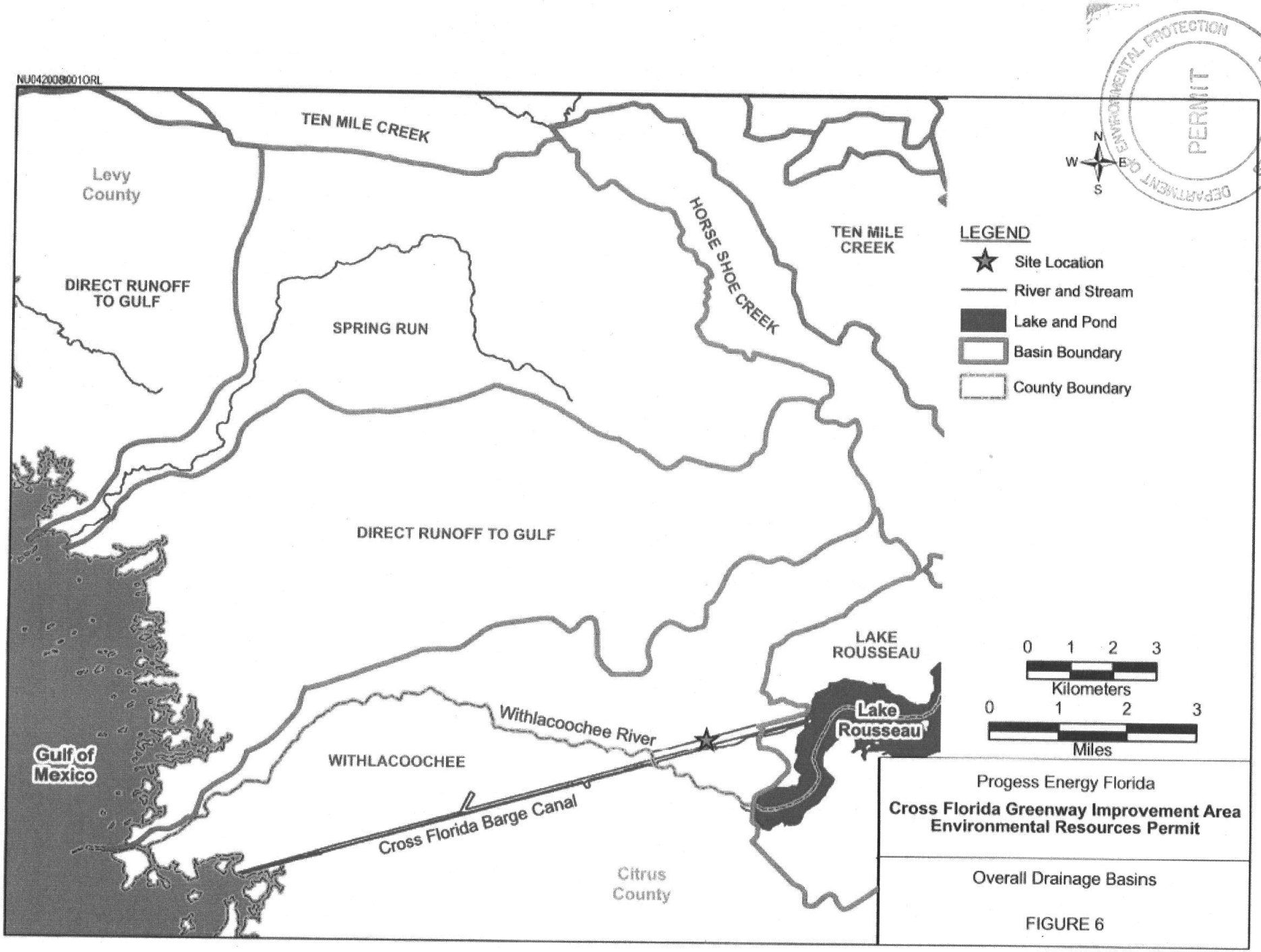
1000 0 500 1000 FEET

Progess Energy Florida

Cross Florida Greenway Improvement Area
Environmental Resources Permit

FEMA Floodplain Map

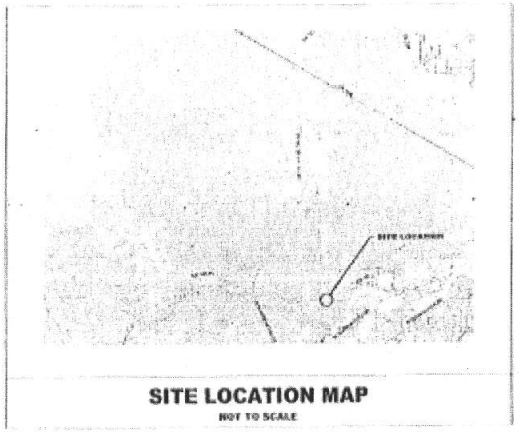
FIGURE 5
SHEET 5 of 5


NU042008001ORL
TEN MILE CREEK
Levy County
DIRECT RUNOFF TO GULF
SPRING RUN
HORSE SHOE CREEK
TEN MILE CREEK
DIRECT RUNOFF TO GULF
LAKE ROUSSEAU
Withlacoochee River
Lake Rousseau
Gulf of Mexico
WITHLACOOCHEE
Cross Florida Barge Canal
Citrus County
N
W
E
S
LEGEND
Site Location
River and Stream
Lake and Pond
Basin Boundary
County Boundary
0 1 2 3
Kilometers
0 1 2 3
Miles
PERMIT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF FLORIDA
Progess Energy Florida
Cross Florida Greenway Improvement Area
Environmental Resources Permit
Overall Drainage Basins
FIGURE 6

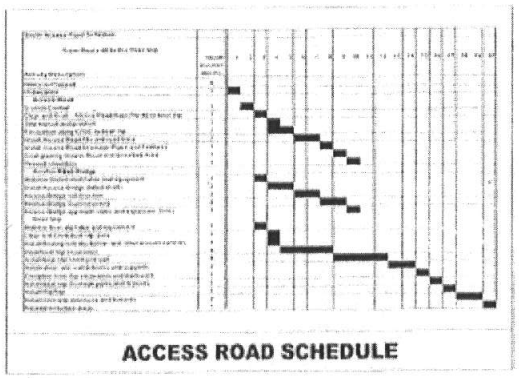
SITE AND STRUCTURE PLANS

CROSS FLORIDA GREENWAY
RECREATIONAL IMPROVEMENT AREA

Florida Power Corporation dba Progress Energy Florida, Inc.,(PEF)
299 First Avenue North, PEF 903, St. Petersburg, FL 33701



SITE LOCATION MAP
NOT TO SCALE



ACCESS ROAD SCHEDULE

INDEX OF DRAWINGS

SHEET NUMBER	SHEET TITLE
[illegible]	SITE AND STRUCTURE PLANS TITLE SHEET
[illegible]	PROPOSED ACCESS ROAD DRAINAGE, SITE GRADING PLAN & PROFILE
[illegible]	SEDIMENTATION/GRADING & EROSION CONTROL PLAN
[illegible]	SEDIMENTATION/GRADING & EROSION CONTROL PLAN
[illegible]	SEDIMENTATION/GRADING & EROSION CONTROL PLAN
[illegible]	STORM WATER & EROSION CONTROL DETAILS
[illegible]	PROPOSED ACCESS ROAD CROSS SECTIONS STA 0+00 - 5+50
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[illegible]	PROPOSED ACCESS ROAD CROSS SECTIONS STA 21+00 - 26+50
[illegible]	PROPOSED ACCESS ROAD STORM DRAINAGE AREA MAP
[illegible]	SEDIMENT & EROSION CONTROL NOTES AND DETAILS
[illegible]	BOAT SLIP LAYOUT (INSET)
[illegible]	BOAT SLIP SECTIONS
[illegible]	BOAT SLIP SECTIONS
[illegible]	MOORING BUOY DETAILS, CHANNEL MARKER PLAN AND ELEVATION
[illegible]	MOORING BUOY DETAILS, CHANNEL MARKER TYPICAL CROSS SECTIONS

SEE SHEET CLASSIFICATION: C

PROGRESS ENERGY FLORIDA, INC.

CROSS FLORIDA GREENWAY RECREATIONAL IMPROVEMENT AREA

SITE AND STRUCTURE PLANS
TITLE SHEET

Shaw Nuclear

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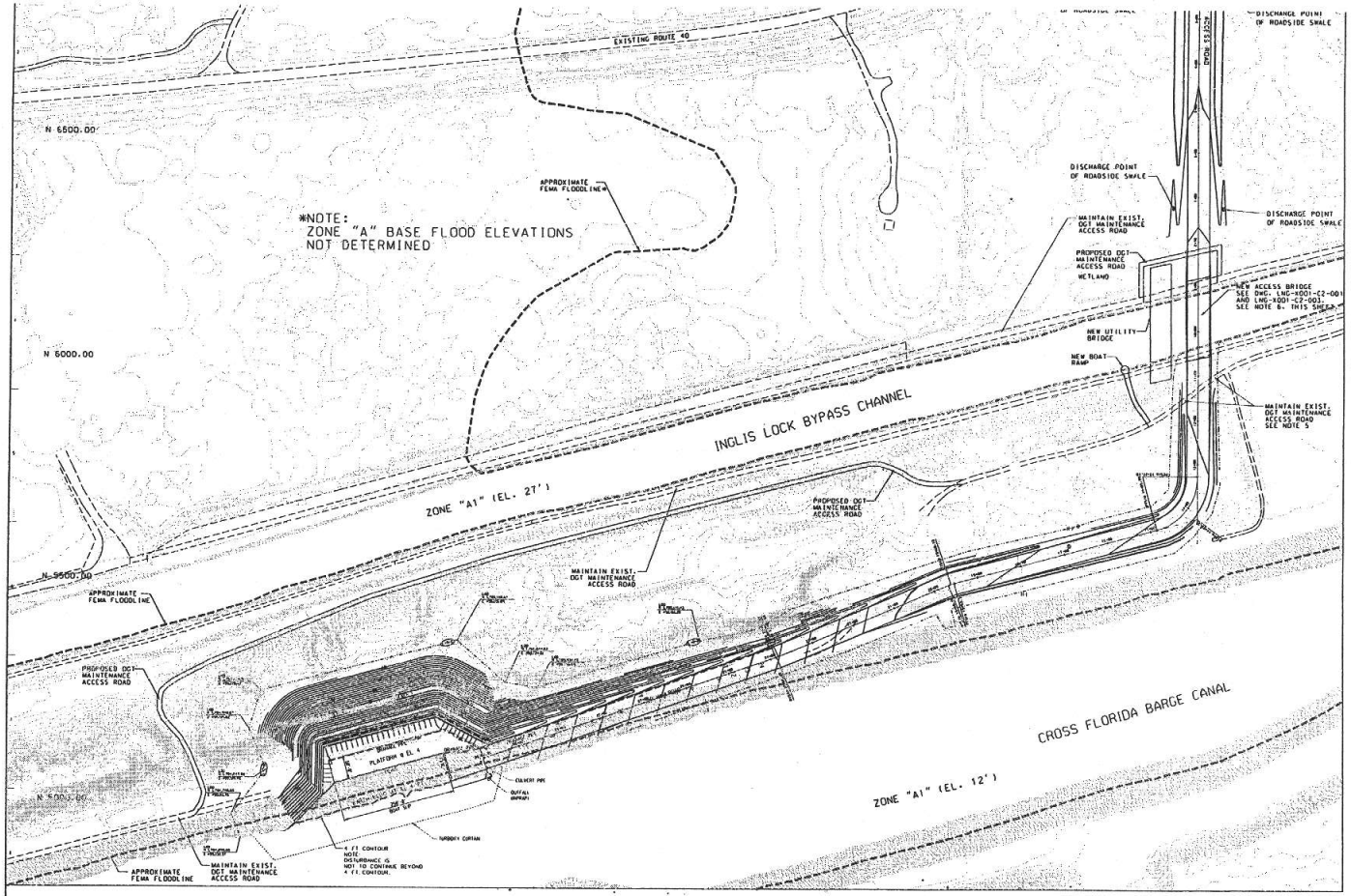

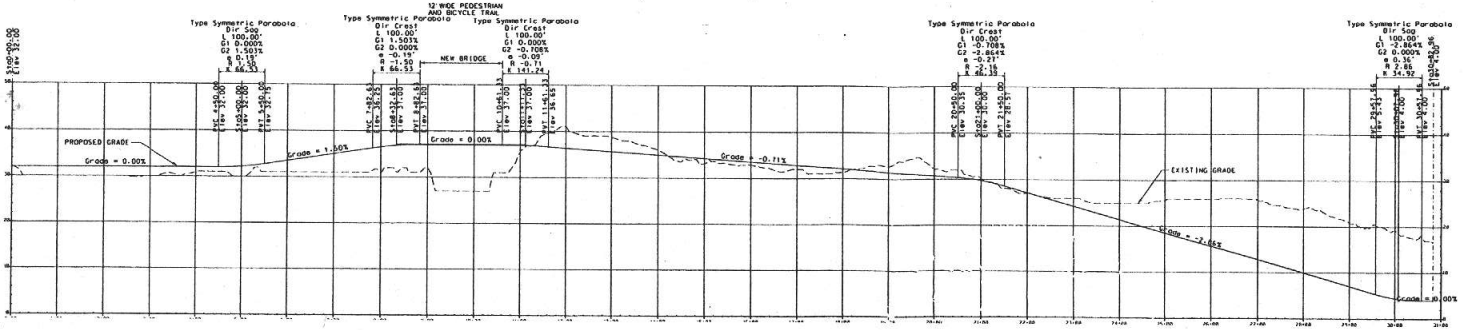

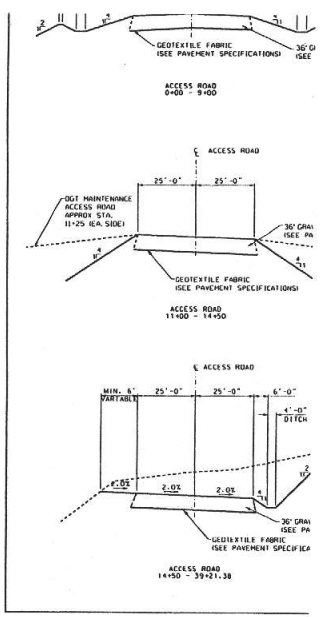

TYPICAL SECTIONS

NOTES:

1. FOR EROSION CONTROL - SEE SHEETS: LNG-G1-XS-046 TO LNG-G1-XS-049
2. CONTOURS ARE IN NORTH AMERICAN VE DATUM OF 1988 (NAVD88).
3. FEMA FLOOD PLAIN CONVERTED TO NAV FROM NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)
4. SEE LNG-G1-XS-049 FOR TYPICAL CUL
5. OGT MAINTENANCE ACCESS ROAD CROSS LOCATED AT DRAINAGE HIGH POINT (A STA. 11+25). SEE DRAWING LNG-G1- FOR TRIBUTARY DRAINAGE AREAS.
6. ELEVATION DIFFERENCE BETWEEN PROJ STORM WATER LEVEL AND BOTTOM OF B DECK IS APPROXIMATLY 5'

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100 TECHNOLOGY CENTER
SIGUICHON: MA 02072-
COA 4894

WEC SAFETY CLASSIF

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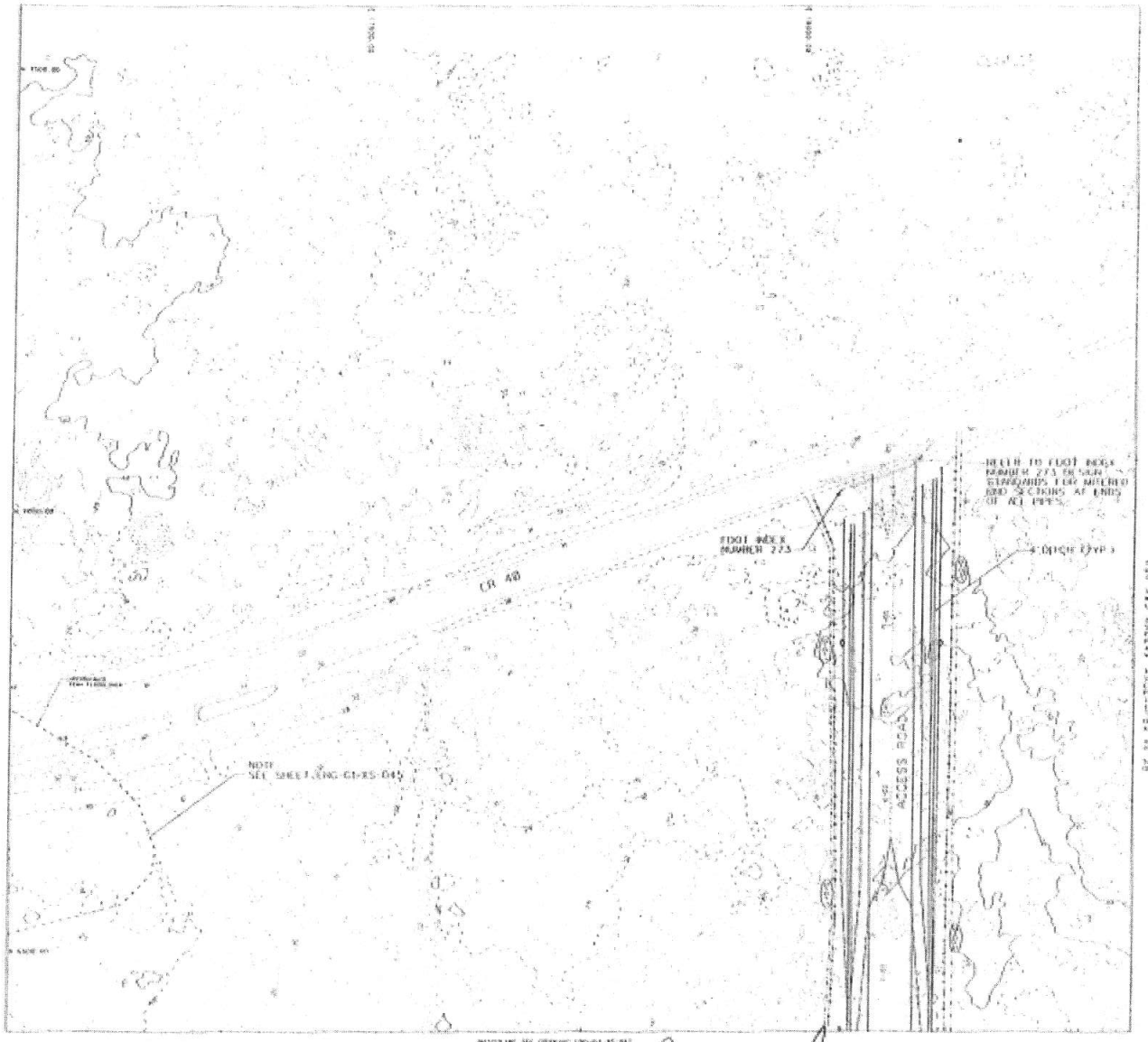
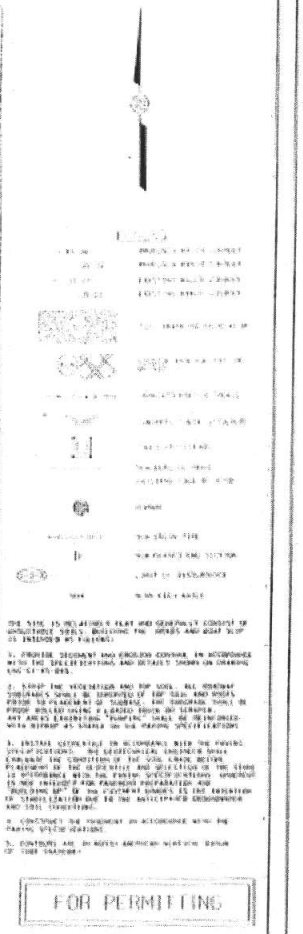
PROGRESS ENERGY

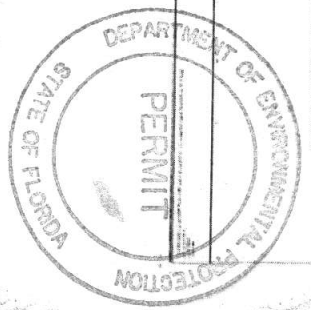


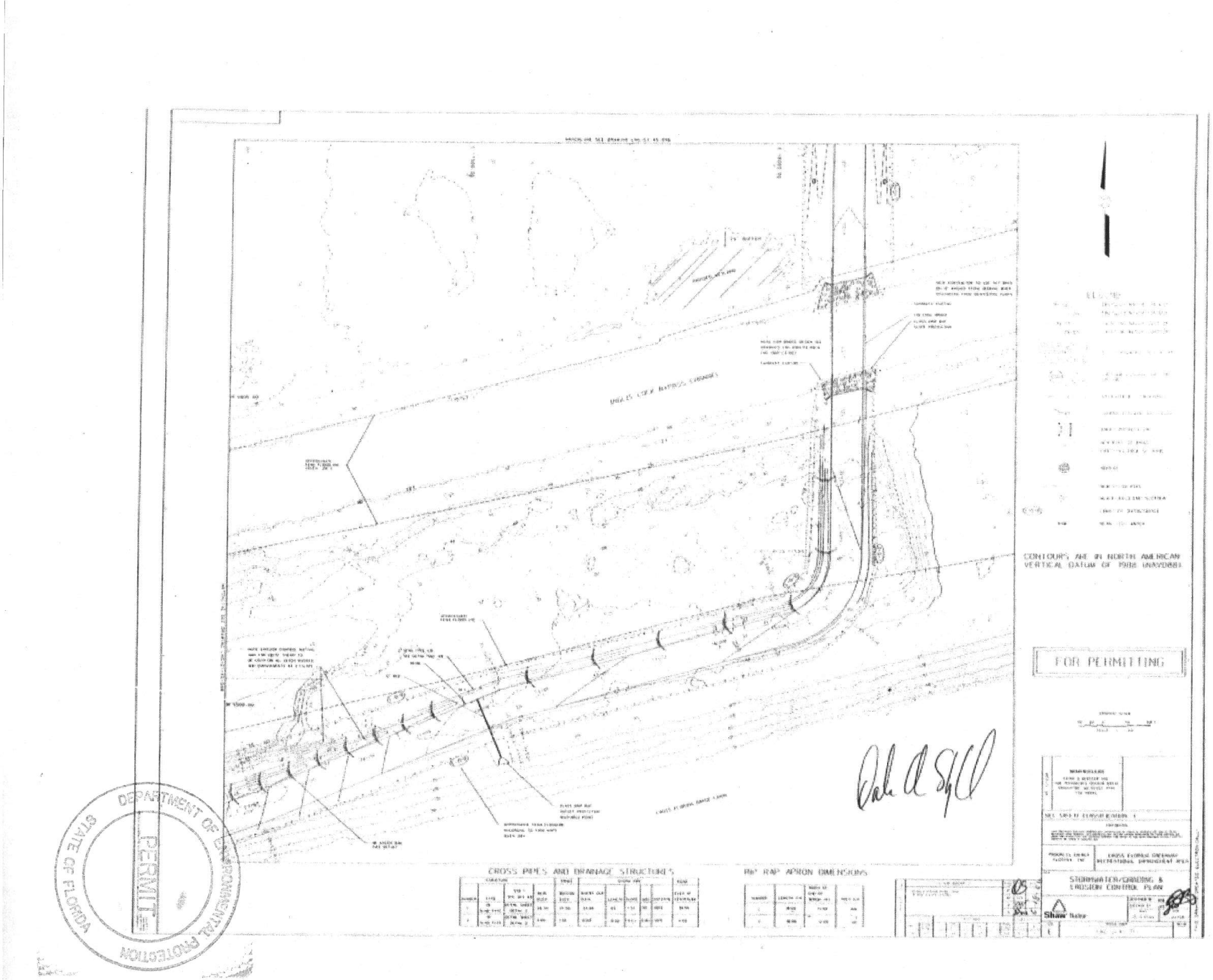


FOR PERMITTING

STORMWATER/GRADING & EROSION CONTROL PLAN

Shaw Nolan




CONTOURS ARE IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
FOR PERMITTING
CROSS PIPES AND DRAINAGE STRUCTURES
RIP RAP APRON DIMENSIONS
STORMWATER/GRADING & EROSION CONTROL PLAN
Shaw Note
PERMIT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF FLORIDA

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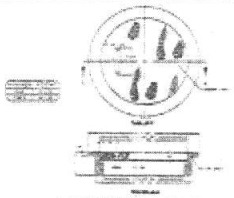
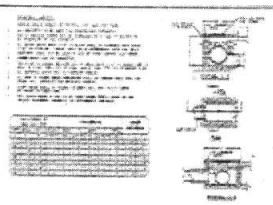
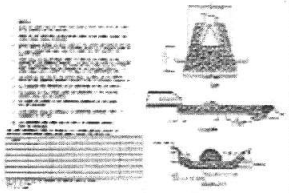


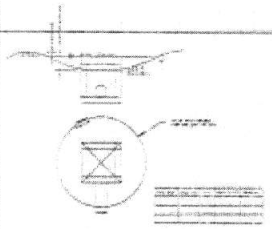
1. MANHOLE RING AND COVER



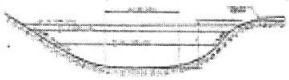
2. SLAB TYPE CATCH BASIN



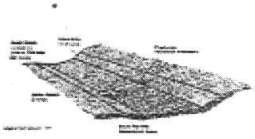
3. RIP RAP APRON AT PIPE OUTFALL



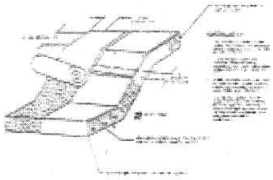
4. GRADING AT DROP INLET



5. DRY SWALE



7. DRY SWALE WITH CHECK DAM



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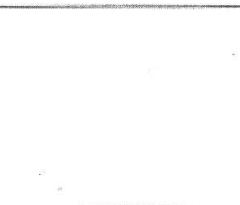
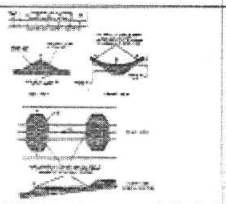
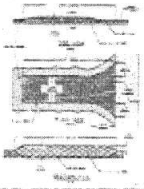


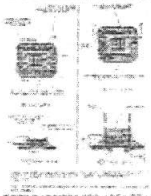
9. TURBIDITY BARRIER



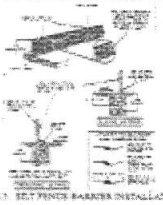
10. ROCK CHECK STRUCTURES FOR SMALL DRAINAGE CHANNELS



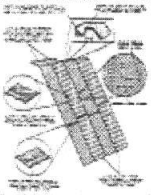
11. SOIL TRACKING PREVENTION DEVICE



12. ROCK BARRIERS FOR AREA DRAINS



13. SILT FENCE BARRIER INSTALLATION



14. INSTALLING A DISTURBED SLOPE MAT

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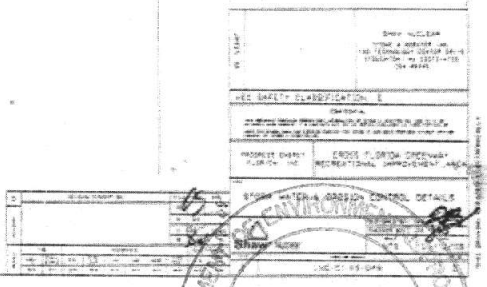

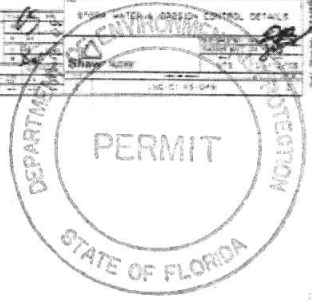

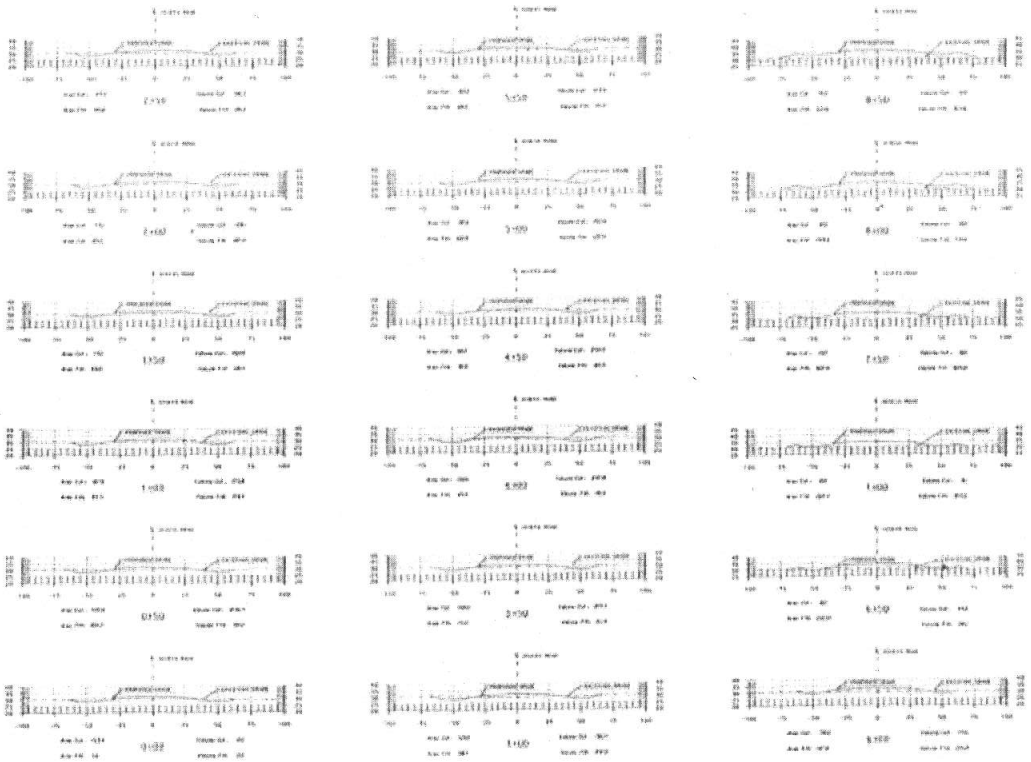

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PROPOSED ACCESS ROAD
CROSS SECTIONS STA 0+00 8+50

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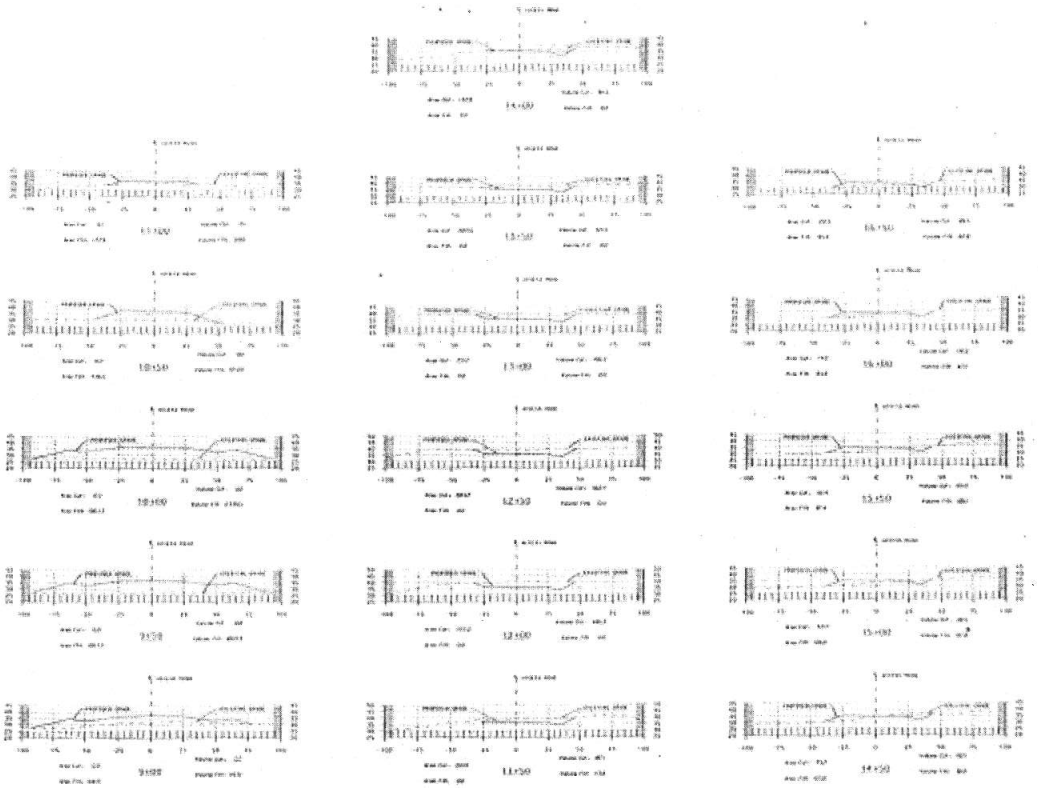

FOR PERMITTING

PROPOSED ACCESS ROAD
CROSS SECTIONS STA. 9+00 - 16+50

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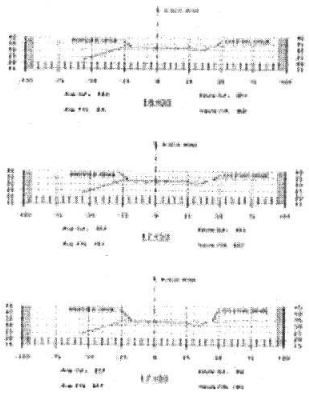
STATE OF FLORIDA
PERMIT



FOR PERMITTING

PROPOSED ACCESS ROAD
CROSS SECTIONS STA. 17+00 - 18+00

Shaw Solar

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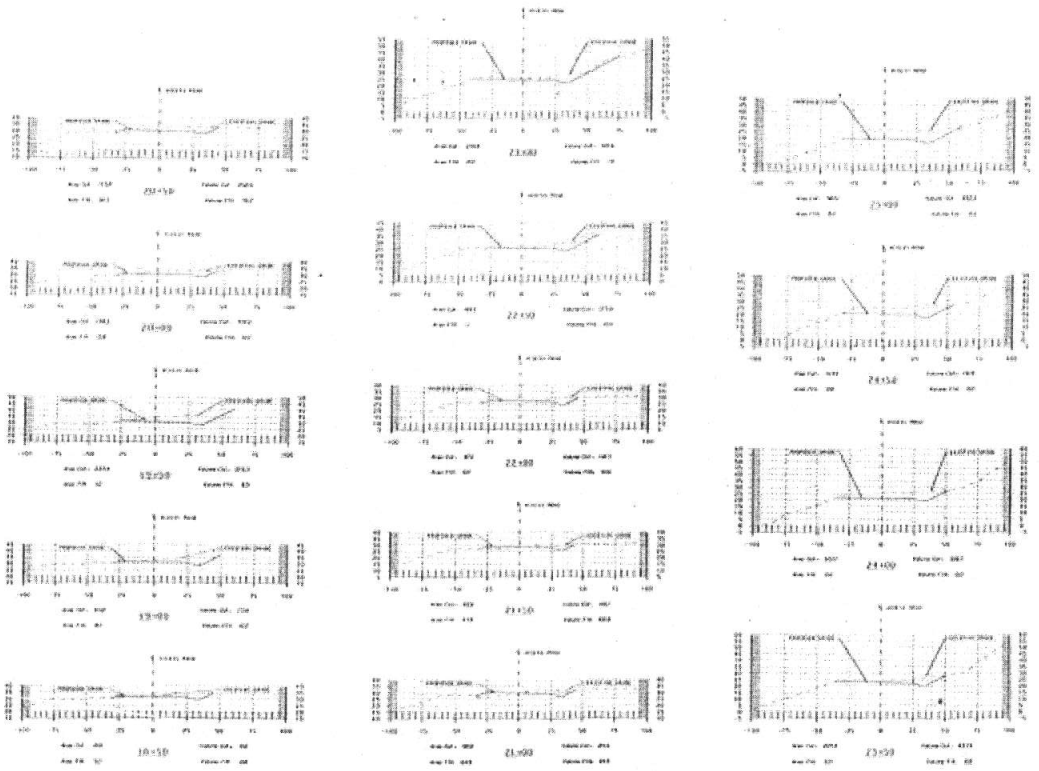
STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION



FOR PERMITTING

PROPOSED ACCESS ROAD
CROSS SECTIONS STA 18+58 25+00

Shaw Yoke

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NOTE: FOR GENERAL NOTES REFER TO DRAWING LNG G1-K5-056.

FOR PERMITTING

PROPOSED ACCESS ROAD
STORM DRAINAGE AREA MAP

Shaw Nuclear

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SOIL EROSION AND SEDIMENT CONTROL NOTES

1. EROSION CONTROL PRACTICES MUST COMPLY WITH THE MINIMUM BEST MANAGEMENT PRACTICES FOR EROSION CONTROL.

2. THE INSTALLATION OF EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

3. SILT BARRIERS SHALL BE PLACED AT BOTTOM/TOE OF TOP OF ALL FILL SLOPES UNLESS OTHERWISE PROTECTED.

4. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION CONTROL DEVICES TO BE USED MAY BE REQUIRED.

5. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF EXPECTED EXIT FROM THE SITE.

6. THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANING OUT ANY STRUCTURES USED TO TRAP SEDIMENT. ALL SEDIMENTS SPILLED, DROPPED, WASHED OR BLOWN FROM VEHICLES OR FROM THE SITE ONTO PUBLIC PAVEMENTS OR INTO STORM DRAINS MUST BE REMOVED.

7. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE SITES, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED. CLEARING, GRADING, OR OTHER LAND DISTURBANCE SHALL NOT COMMENCE UNTIL PERIMETER CONTROLS ARE COMPLETE.

8. THE CONSTRUCTION OF THE SITE MUST INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL STORM RUNOFFS AND EROSION. NO SEDIMENT CONTROL MAY BE MAINTAINED WITH ALL WATER NOT CAUGHT WITHIN THE CONSTRUCTION AREA HAVING BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL IMPROVEMENTS APPROVED.

9. FAILURE TO INSTALL, REPAIR, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED TO LOCAL JURISDICTIONAL STANDARDS.

10. SEDIMENT/EROSION CONTROL DEVICES MUST BE CHECKED AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED THE CAPACITY OF THE DEVICE. ADDITIONAL DEVICES MUST BE INSTALLED IF NEW CHANNELS HAVE DEVELOPED.

11. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.

12. DISTURBED AREAS LEFT IDLE FOR 14 DAYS, AND ARE NOT TO FINAL GRADE, WILL BE STABILIZED TO TEMPORARY VEGETATION DEPENDING WHEN LAST USED FOR 30 DAYS OR MORE, WILL BE ESTABLISHED TO PERMANENT VEGETATION. AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION IMMEDIATELY UPON COMPLETION.

13. OTHER EROSION CONTROL NOTES:
   a. ALL CUT AND FILL SLOPES MUST BE SEEDED IMMEDIATELY AND MULCHED WITHIN 14 DAYS OF THEIR COMPLETION.
   b. ALL FILL SLOPES ARE HAVE SILT FENCE AT THE TOE OF SLOPE AT A 25 TO 35 FOOT UNDISTURBED BUFFER ADJACENT TO ALL FLOWING STREAMS AND CREEKS WILL BE LEFT AND MAINTAINED.

14. RILES HAND PLANTING, MULCH CURB OR STORM SHOULD BE IMMEDIATELY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING.

15. BALED HAY OR USED AS A TEMPORARY COVER ON A SLOPE THAT ARE STEEPER THAN 3 TO 1 NEED TO BE HELD IN PLACE AND CUP USED WILL BE ANCHORED.

16. RETENTION, DIVERSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION OF THE LOCAL AUTHORITY, THE ENGINEER, OR PROGRESS CHANGE INC.

17. CONSTRUCTION WASTE DISPOSAL

   NOTE: CONSTRUCTION WASTE MAY NOT BE BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.

   CUT SLOPES

   SURFACE ROUGHENING OF THE CUT SLOPES ALONG WITH TEMPORARY AND PERMANENT GRAVING MAY BE REQUIRED TO CONTROL EROSION OF THE CUT FACE. SILT FENCE WILL BE PLACED AT THE TOE OF THE SLOPES.

   FILL SLOPES

   SURFACE ROUGHENING OF THE CUT SLOPES ALONG WITH TEMPORARY AND PERMANENT GRAVING MAY BE REQUIRED TO CONTROL EROSION OF THE SLOPE FACE.

SEEDING NOTES

1. TOPSOIL
   a. TOPSOIL SHALL BE FRIABLE LOAMY SOIL FREE OF DEBRIS, ROOTS AND SUBSOIL FOREIGN MATTER AND UNSUITABLE MATERIALS WHICH COULD AND OTHER SUCH MATERIALS. TOPSOIL SHALL HAVE A MINIMUM ACIDITY (PH) OF 6.4 MAXIMUM PH OF 7.8 PH OF 5.5 TO 6.8 A MINIMUM ORGANIC CONTENT OF 1.5 PERCENT AND SHALL BE CAPABLE OF SUPPORTING ADEQUATE VEGETATION
   b. AREAS TO RECEIVE TOPSOIL SHALL BE SCARIFIED ACROSS FLOW LINE 3 INCHES DEEP TO SPREAD FREE TO SCARIFIED AREAS.
   c. TOPSOIL SHALL BE UNIFORMLY SPREAD OVER THE AREA TO A MINIMUM DEPTH OF 4 INCHES AND ROLLED TO A UNIFORM SURFACE WITH A LIGHT ROLLER OR OTHER SUITABLE EQUIPMENT.

2. FERTILIZER
   a. FERTILIZER SHALL BE APPLIED IN COMPLIANCE WITH THE COMMERCIAL FERTILIZER LAWS AS ENFORCED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES AS PELLET OR TABLET FORM SHALL BE PACKAGED IN WATER TIGHT CONTAINERS.
   b. FERTILIZER SHALL BE EITHER 8-8-8, 10-10-10, 13-13-13, OR 16-8-8 OR THE 3 NUMBERING SEQUENCE REPRESENTS THE MINIMUM PERCENTAGES BY WEIGHT RESPECTIVELY OF NITROGEN AVAILABLE PHOSPHORIC ACID AND SOLUBLE POTASH.
   c. FERTILIZER SHALL BE UNIFORM IN COMPOSITION GRADE AND, TO BE APPLIED BY EITHER HAND OR MECHANICAL MEANS. THE RATE OF FERTILIZER APPLICATION SHALL BE IN ACCORDANCE WITH FERTILIZER APPLICATION RATES AS SHOWN IN TABLE "C" THIS DRAWING.
   d. FERTILIZER SHALL BE APPLIED BEFORE FINAL RAKING, OR WORKING OR INCORPORATING SEED AND DRESSING WHEN THE SURFACE IS DRY USED OR WHEN THE FERTILIZER MAY BE APPLIED BEFORE FINAL RAKING AND LEVELING.

3. AGRICULTURAL LIME
   a. AGRICULTURAL LIME SHALL CONSIST OF GROUND LIMESTONE OR SEASHELLS CONTAINING AT LEAST 90 PERCENT CALCIUM CARBONATE EQUIVALENT WHEN TESTED IN ACCORDANCE WITH ASTM C 602 THE MATERIAL SHALL BE GROUND TO HAVE A MINIMUM OF 98 PERCENT PASSING A NO. 10 SIEVE AND 35 PERCENT PASSES A NO. 100 SIEVE.
   b. AGRICULTURAL LIME SHALL BE SPREAD UNIFORMLY AT A MINIMUM OF 2 TONS PER ACRE AND A MAXIMUM OF ONE SHALL BE APPLIED PRIOR TO SEEDING AND MULCH PLACEMENT AND MAY BE APPLIED IN CONJUNCTION WITH FERTILIZER.
   c. AFTER APPLICATION THE AREA SHALL BE DISCED, HARROWED OR OTHERWISE BLENDED TO INCORPORATE ONE OR LIME FERTILIZER INTO THE TOP 3 INCHES TO 6 INCHES OF SOIL.

4. SEED BED PREPARATION
   a. SEED BEDS SHALL BE PREPARED BY DISKING, HARROWING OR OTHER APPROVED METHODS. SOIL SHALL BE THOROUGHLY PULVERIZED TO A MINIMUM DEPTH OF 3 INCHES. SLOPES SHALL BE SMOOTHED TO GRADE AND REDUCED PRIOR TO SEEDING.

5. SEED
   a. PERMANENT SEED MIXTURES AND PLANTING DATES SHALL BE IN ACCORDANCE WITH THE PERMANENT SEEDING SCHEDULE PROVIDED IN "TABLE A" THIS DRAWING.
   b. TEMPORARY SEED MIXTURES AND PLANTING DATES SHALL BE IN ACCORDANCE WITH THE TEMPORARY SEEDING SCHEDULE PROVIDED IN "TABLE B" THIS DRAWING.
   c. SEED SHALL COMPLY WITH REQUIREMENTS OF FLORIDA LAW THE MINIMUM PERCENTAGE OF PURE LIVE SEED AND THE MINIMUM PERCENTAGE OF HARD SEED PERMITTED SHALL BE IN ACCORDANCE WITH "SEED REQUIREMENTS PROVIDED IN "TABLE D" THIS DRAWING.
   d. EACH VARIETY OF SEED SHALL BE FURNISHED AND DELIVERED IN SEPARATE BAGS OR OTHER CONTAINERS. EACH BAG OR CONTAINER SHALL BEAR AN ANALYSIS TAG WHICH IS A MINIMUM NO 6 STANDARD SHOWING THE ABOVE ALL INFORMATION REQUIRED BY THE FLORIDA SEED LAW ARRANGED AS SHOWN IN "TABLE E" THIS DRAWING.
   e. SEED FURNISHED SHALL BE OF THE PREVIOUS VARIETIES CROP THE LAST CROP YEAR FOR THE CROP KIND IN QUESTION AND THE DATE OF ANALYSIS SHOWN ON EACH TAG SHALL BE WITHIN 5 MONTHS IMMEDIATELY THE MONTH IN WHICH THE TEST IS COMPLETED AT THE TIME OF DELIVERY TO THE PROJECT.

6. MIXING NEEDS
   a. MIXINGS NEEDS SHALL BE DELIVERED TO MEET THE LOT OF MIXES, EXCEPT DEMARIA WHICH HAS BULK RECEIPTS BY THE FLORIDA SEED CERTIFICATION AS DEMARIA WHICH IN FLORIDA MEANS, SEED SEEDS SHALL NOT EXCEED THE LIMITATIONS PRESCRIBED IN THE FLORIDA RULES, AND IN NO CASE SHALL THEY EXCEED 500 PER POUND.
   b. ANALYSIS TAGS SHALL BE REMOVED FROM EACH BAG OR CONTAINER ONLY BY THE ENGINEER OR AN AUTHORIZED REPRESENTATIVE.

7. TEST REPORT
   a. A COPY OF THE LABORATORY TEST REPORT OF AN OFFICIAL SAMPLE TAKEN AND TESTED FOR EACH LOT OF SEED PURCHASED AS PREPARED BY THE STATE SEED ANALYSIS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICE SHALL BE SUBMITTED TO THE ENGINEER BY THE CONTRACTOR. TEST REPORTS MAY BE ACCEPTED FROM THE AGRICULTURAL DEPARTMENTS OF OTHER STATES PROVIDED THE REQUIREMENTS IN THESE SPECIFICATIONS ARE MET.
   b. THE LOT NUMBER ON THE ANALYSIS TAG SHALL MATCH THE LABORATORY TEST REPORT LOT NUMBER.

8. WATERING
   a. SEEDED AREAS SHALL BE PERIODICALLY WATERED UNTIL FROM ACCEPTABLE WATER MAY BE OBTAINED FROM ANY SOURCE EXCEPT BRACKISH, CHEMICALLY CONTAMINATED OR DIRTY WATER SHALL NOT BE USED.

MULCHING NOTES

1. GENERAL
   a. MULCHING SHALL FOLLOW SEEDING OPERATIONS WITHIN 48 HOURS OR PREFERABLY SEED OPERATIONS AND GRADING.
   b. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 7 CALENDAR DAYS IN ADVANCE OF COMMENCING OPERATIONS SO THAT THE WORK CAN BE OBSERVED AND APPROVED PRIOR TO USE.
   c. MULCH SHALL CONSIST OF FIBER, FIBER MULCH MULCH MATERIAL OR AN APPROVED FIBER MULCH PRODUCT.
   d. VEGETABLE MULCH OR FIBER MULCH SHALL BE DELIVERED IN BALES OR BAGS OF UNIFORM SIZE. MULCH STORAGE STRUCTURES SHALL BE PROTECTED FROM WEATHER.

2. PAPER VEGETABLE MULCH
   a. VEGETABLE MULCH SHALL CONSIST OF FINE STRAW, STALKS OR STEMS OF WHEAT, RYE, OAT OR OTHER APPROVED GRAINS.
   b. THE CONTRACTOR MAY ALSO USE ANY CERTIFIED FARM WASTE, LITTERS, AND GRASSES SUCH AS LESPEDEZA, CLOVER, WEEDS, SOME AS BERMUDA GRASS, CARPET GRASS, TIFTON OR OTHER APPROVED LEGUMES OR GRASSES OR ANY COMBINATION THEREOF.
   c. STRAW OR HAY SHALL BE RELATIVELY DRY AND FREE FROM MOLD, ROTTEN LEAVES OR OTHER NOXIOUS MATTER.
   d. VEGETABLE MULCH SHALL BE TACKED WITH AN APPROVED TACKING AGENT FOR VEGETATIVE MULCH LISTED IN THE QUALIFIED PRODUCTS LIST FROM THE FLORIDA DEPARTMENT OF TRANSPORTATION (QUALIFIED PRODUCTS LIST).
   e. VEGETABLE MULCH SHALL BE APPLIED AT A RATE OF 1 1/2 TO 2 TONS OF MULCH PER ACRE UNIFORMLY WITH THE TACKING AGENT.

3. THE MINIMUM ALLOWABLE VEGETATIVE DENSITY FOR SEEDED APPROVAL OF FIBER VEGETABLE MULCH SHALL BE 70 PERCENT FOR CLAY SOILS AND 60 PERCENT FOR SANDY SOILS, WHEN EVALUATED AS RECOMMENDED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION INTERIM LITERATURE PERFORMANCE TESTING PROTOCOLS OF SELECTED EROSION CONTROL PRODUCTS.

4. FIBER MULCH PRODUCTS
   a. ACCEPTABLE FIBER MULCH PRODUCTS SHALL BE LISTED IN THE FLORIDA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS LIST.
   b. FIBER MULCH SHALL BE APPLIED AS A SLURRY AT A RATE OF 1000 TO 1500 LBS PER ACRE (BASED ON DRY WEIGHT UNLESS OTHERWISE THE FIBERS THE APPLICATION RATE OF THE FIBERS ABOVE IS NOT TO BE USED WHEN THE FIBERS ARE THE MANUFACTURER SHALL BE IN ACCORDANCE WITH APPLICATION RATE RECOMMENDED BY THE MANUFACTURER.
   c. THE MINIMUM ALLOWABLE VEGETATIVE DENSITY FOR SEEDED APPROVAL OF FIBER MULCH PRODUCTS SHALL BE 70 PERCENT FOR CLAY SOILS AND 60 PERCENT FOR SANDY SOILS WHEN EVALUATED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION INTERIM LITERATURE PERFORMANCE TESTING PROTOCOLS OF SELECTED EROSION CONTROL PRODUCTS.

HYDRO-SEEDING NOTES

1. HYDRO-SEEDING SHALL CONSIST OF MIXING AND APPLYING SEED, COMMERCIAL FERTILIZER, WATER MANAGEMENT OR POLYACRYLAMIDE, ENDOSED AND MYCORRHIZA INOCULUM WITH FIBER AND WATER.

2. POLYACRYLAMIDE (ANIONIC) SHALL NOT BE APPLIED DURING ANY RAINFALL OR WHEN SOIL MOISTURE CONDITIONS ARE BELOW 85%.

3. SEED SHALL BE UNIFORMLY SPREAD OVER THE AREA AT RATES SPECIFIED IN TABLE "A" AND/OR TABLE "B" HYDRAULIC SEEDER SHALL BE CALIBRATED TO SPREAD SEED AT RATES SPECIFIED IN TABLE "C".

4. A MINIMUM OF 500 POUNDS OF WOOD FIBER PER ACRE SHALL BE MIXED AND APPLIED WITH THE SEED OR FIBER SHALL BE IN ADDITION TO STRAW OR MULCH WHEN STRAW OR MULCH IS SPECIFIED.

5. THE APPLICATION RATE FOR POLYACRYLAMIDE SEED SHALL BE DETERMINED USING DRY SEED MASS EXCLUSIVE OF INOCULANT MATERIALS.

6. USING OF MACHINES FOR APPLICATION WITH HYDRO SEEDING EQUIPMENT SHALL BE PERFORMED BY A TANK WITH A JET OR CONTINUOUS AGITATION SYSTEM OF SUFFICIENT OPERATING CAPACITY TO PRODUCE A HOMOGENEOUS MIXTURE AND A DISCHARGE SYSTEM WHICH WILL APPLY THE MIXTURE AS A UNIFORMLY AND UNIFORM RATE.

TABLE A

PERMANENT SEEDING SCHEDULE

SEED MIXTURE	POUNDS PURE LIVE SEED PER ACRE	PLANTING DATES
BAHIA BERMUDA	30	WARM SEAT
BERMUDA HYBRID	15	SEE TABLE
UNHULLED BERMUDA	20	SEE TABLE
UNHULLED BERMUDA	30	SEE TABLE
RED FESCUE	15	FOR WARM
UNHULLED BERMUDA	30	
BAHIA BERMUDA	45	SEE TABLE
CENTIPEDE	10	SEE TABLE

TABLE B

TEMPORARY SEEDING SCHEDULE

SEED MIXTURE	POUNDS PER ACRE	PLANTING DATES
HULLED BERMUDA	30	WARM SEAT
ANNUAL RYE	25	SEE TABLE
UNHULLED BERMUDA	30	
BERMUDA HYBRID	20	SEE TABLE
UNHULLED BERMUDA	30	
RED FESCUE	15	FOR WARM
UNHULLED BERMUDA	30	
BAHIA BERMUDA	45	SEE TABLE
CENTIPEDE	10	SEE TABLE
BAHIA RYE	45	SEE TABLE

TABLE C

FERTILIZER APPLICATION RATES

TYPE FERTILIZER	POUNDS PER ACRE	POUNDS PER 1000 SQ FT
8-8-8	1000	23
10-10-10	800	18
13-13-13	615	14
16-8-8	500	11

TABLE D

SEED REQUIREMENT

VARIETY	MINIMUM PERCENT OF PURE LIVE SEED (PLS) (GERMINATION INCLUDING HARD SEED BY WEIGHT)	MAXIMUM PERCENT OF WEED SEED BY WEIGHT
HULLED BERMUDA	85	1
PENSACOLA BAHIA	80	2
COMMON BERMUDA	90	1
SCARIFIED BERMUDA	80	1
UNHULLED BERMUDA	85	1
TIFTON CLOVER	90	1
PERSIAN CLOVER	90	1
ST AUGUSTINE	80	1
ANNUAL RYE	90	1

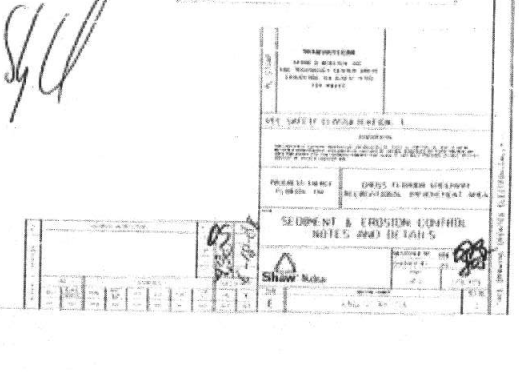
TABLE E

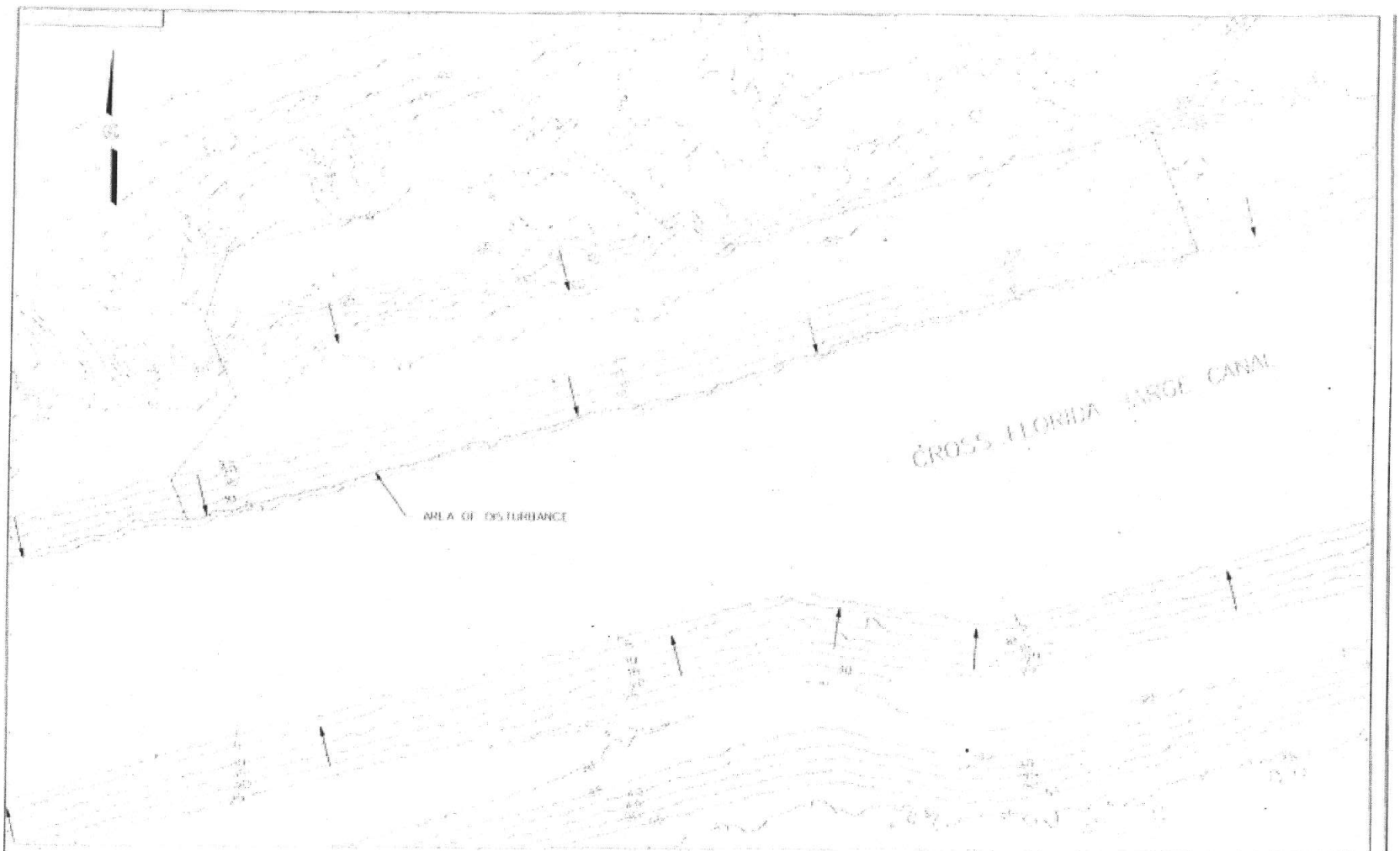
SEED ANALYSIS TAG

SEED & VARIETY			
WEED SEEDS		NO. PER LB.	LBS. PER 100 LBS.
INERT SEED	%	GERMINATION	%
HARD SEED	%	HARD SEED	%
CROP SEED	%	TOTAL CROP & HARD SEED	%
WEED SEED	%	DATE OF TEST	
NAME & NO. OF NOXIOUS WEED SEED PER LB.			
NAME			
ADDRESS			

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION PERMIT

FOR PERMITTING

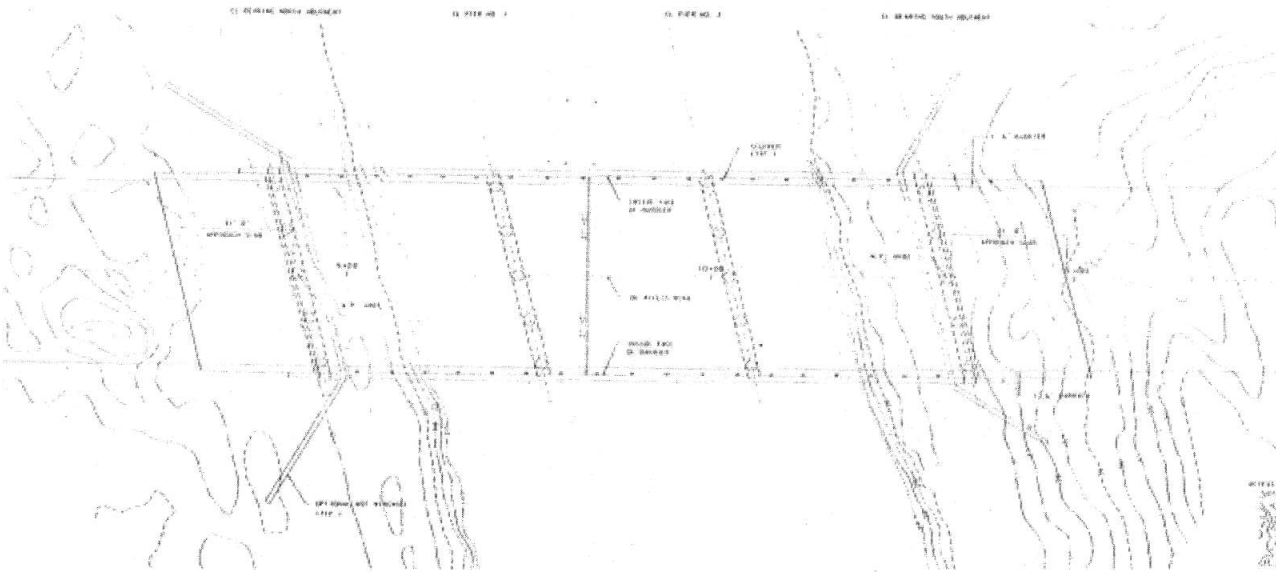




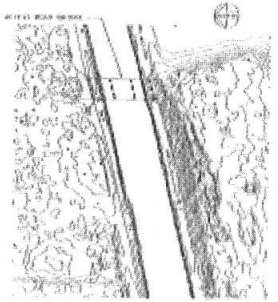
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION PERMIT

FOR PERMITTING

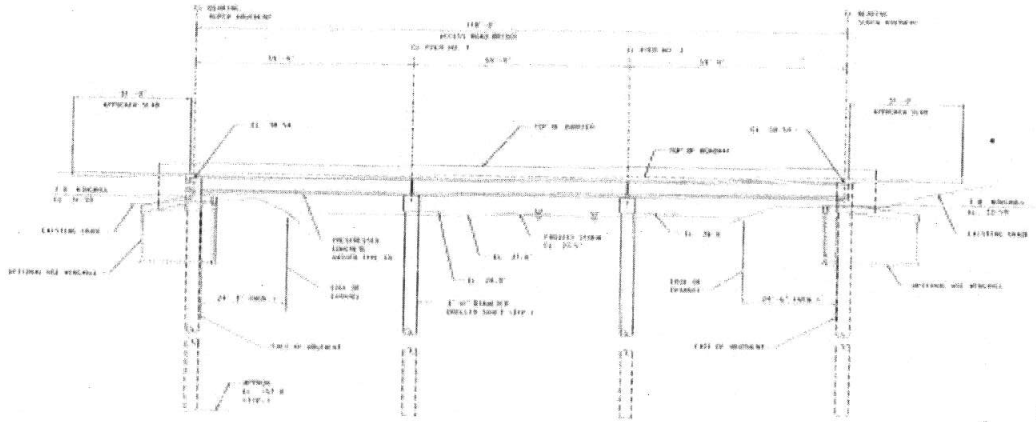
BOAT SLIP EXISTING CONDITIONS



BRIDGE PLAN



SITE PLAN



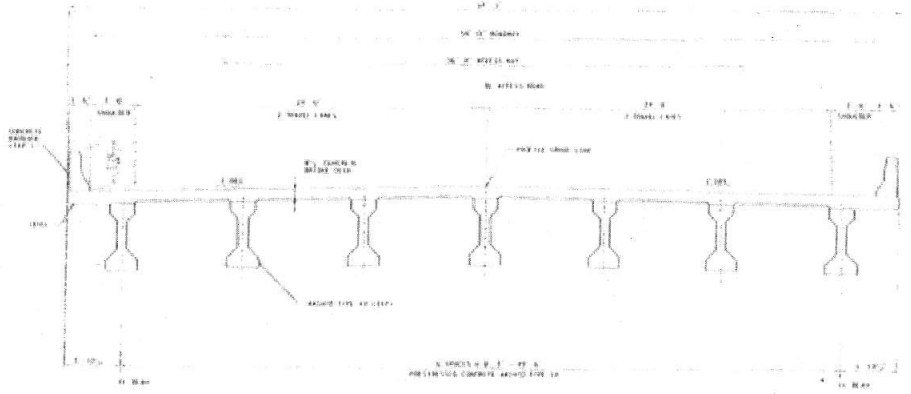
BRIDGE MSE ELEVATION

FOR PERMITTING

ACCESS ROAD BYPASS CHANNEL BRIDGE
PLAN AND ELEVATION

Show Notes

DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF FLORIDA
PERMIT



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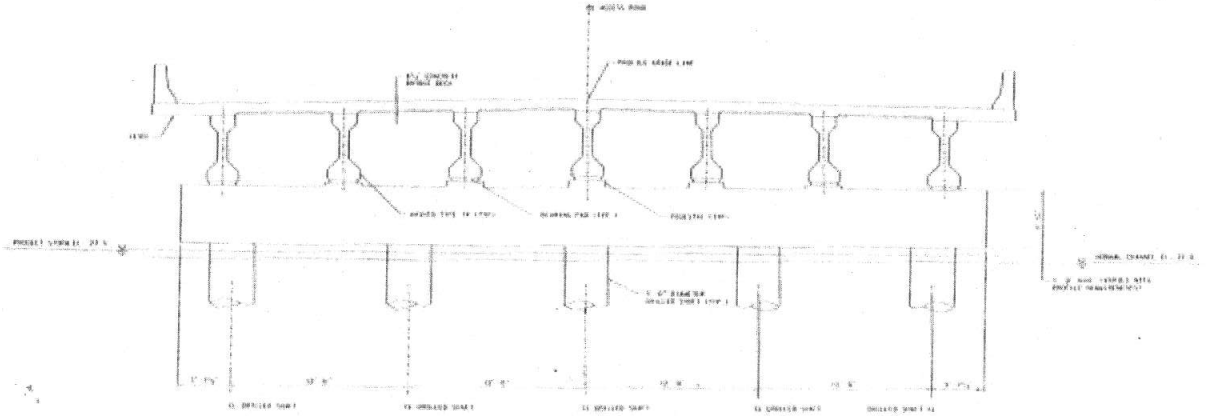

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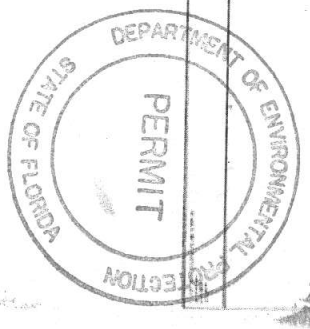

ACCESS ROAD BYPASS CHANNEL BRIDGE
TYPICAL CROSS SECTION

Shaw Perkins

ENG 4001-42 013

NOTICE

YOUR PROJECT DID NOT QUALIFY FOR THE STATE AND FEDERAL COMBINED STATE PROGRAMMATIC GENERAL PERMIT (SPGP) PROGRAM. THE ATTACHED AUTHORIZATION(S) DOES NOT INCLUDE THE REQUIRED FEDERAL AUTHORIZATION FOR YOU TO CONSTRUCT YOUR PROJECT. A COPY OF YOUR APPLICATION HAS BEEN SENT TO THE US ARMY CORPS OF ENGINEERS (USACOE) FOR PROCESSING. THE FEDERAL AUTHORIZATION FOR YOUR PROJECT WILL BE SENT TO YOU SEPARATELY BY THE USACOE. YOU CANNOT CONSTRUCT YOUR PROJECT WITHOUT THE APPROPRIATE FEDERAL AUTHORIZATION. THE USACOE CAN BE CONTACTED IN JACKSONVILLE AT 904-232-1679.

NOTICES SUBMITTED TO THE DEPARTMENT

Your permit DEP File No.: 38-272432-002-ES requires you to submit the attached Notices to the Department at the times indicated. Failure to submit these notices will constitute noncompliance with the conditions of your permit and an enforcement action may be brought against you. If you are using a contractor you are responsible for insuring these notices are submitted to the Department.

PLEASE NOTE - References to stormwater management systems in the attached forms refers to the activity or activities authorized in your permit.

CONSTRUCTION COMMENCEMENT NOTICE -- FORM 62-343.900(3)
To be submitted 48 hours PRIOR to the commencement of the activity

ANNUAL STATUS REPORT - Form 62-343.900(4)
To be submitted annually each JUNE whenever the construction period exceeds one year after the construction commencement date.

AS BUILT CERTIFICATION PRIVATE RESIDENT -- FORM NED/AS-BUILT
In some cases, such as a single family resident constructing a structure on their own property for their own use, certification by a registered professional is not required. However, written notice to the Department within 30 days of completion of construction of the date the structure was completed is required. If you are a private single family resident property owner please use the As Built Certification - Private Resident form .

APPLICATION FOR TRANSFER OF PERMIT -- Form 62-343.900(8)
To be submitted within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or real property at which the system is located.

SUBMIT ALL NOTICES TO: **Department of Environmental Protection**
Environmental Resources Program
7825 Baymeadows Way, Suite B-200
Jacksonville, Florida 32256-7590

ENVIRONMENTAL RESOURCE PERMIT
CONSTRUCTION COMMENCEMENT NOTICE

PROJECT:_____ PHASE: one (1)

I hereby notify the Department of Environmental Protection that the construction of the surface water management system authorized by Environmental Resource Permit No.: 38-272432-002-ES has / is expected to commence on _____ _____200____, and will require a duration of approximately _____ months _____ weeks _____ days to complete. It is understood that should the construction term extend beyond one year, I am obligated to submit the Annual Status Report for Surface Water Management System Construction.

PLEASE NOTE: If the actual commencement date is not known, Department staff should be notified in writing in order to satisfy permit conditions.

_____ _____ _____

Permittee or Authorized Agent | Title and Company | Date

_____ _____

Phone | Address

Form #62-343.900(3), F.A.C.
Form Title: Construction Commencement Notice
Date: October 3, 1995

DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT
STATE OF FLORIDA

ENVIRONMENTAL RESOURCE PERMIT
AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL

PERMIT NUMBER: 38-272432-002-ES

NAME: Progress Energy Florida, Inc.

I hereby certify that all components of this surface water management system have been built substantially in accordance with the approved plans and specifications and are ready for inspection. Any substantial deviations (noted below) from the approved plans and specifications will not prevent the system from functioning as designed when properly maintained and operated. These determinations are based upon on-site observation of the system conducted by me or by my designee under my direct supervision and/or my review of as-built plans certified by a registered professional or other appropriate individual as authorized by law.

Name (Please print) _____ Signature of Professional _____

Company Name _____ Florida Registration Number _____

Company Address _____ Date _____

City, State, Zip Code _____

Telephone Number _____ (Affix Seal)

Substantial deviations from the approved plans and specifications:

_____

_____

_____

_____

(Note: attach two copies of as-built plans when there are substantial deviations)

Within 30 days of completion of the system, submit two copies of the form to:

Department of Environmental Protection
Environmental Resources Program
7825 Baymeadows Way, Suite B-200
Jacksonville, Florida 32256-7590

APPLICATION FOR TRANSFER OF ENVIRONMENTAL RESOURCE PERMIT AND NOTIFICATION OF SALE OF A FACILITY OR SURFACE WATER MANAGEMENT SYSTEM

Permit No. _____ Date Issued _____ Date Expires _____

FROM (Name of Current Permit Holder): _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone: (____) _____

Identification or Name of Facility/Surface Water Management System: _____

_____

Phase of Facility/Surface Water Management System (if applicable): _____

The undersigned hereby notifies the Department of the sale or legal transfer of this facility, or surface-water management system, and further agrees to assign all rights and obligations as permittee to the applicant in the event the Department agrees to the transfer of permit.

Signature of the current permittee: _____

Title (if any): _____ Date: _____

TO (Name of Proposed Permit Transferee): _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone: (____) _____

The undersigned hereby notifies the Department of having acquired the title to this facility, or surface-water management system. The undersigned also states he or she has examined the application and documents submitted by the current permittee, the basis of which the permit was issued by the Department, and states they accurately and completely describe the permitted activity or project. The undersigned further attests to being familiar with the permit, agrees to comply with its terms and with its conditions, and agrees to assume the rights and liabilities contained in the permit. The undersigned also agrees to promptly notify the Department of any future changes in ownership of, or responsibility for, the permitted activity or project.

Signature of the applicant (Transferee): _____

Title (if any): _____ Date: _____

Project Engineer Name (if applicable) _____

Mailing Address: _____

Telephone: (____) _____

ENVIRONMENTAL RESOURCE PERMIT
ANNUAL STATUS REPORT FORM

Permit No.:38-272432-002-ES County:_____

Project Name: Progress Energy Florida, Inc. Phase: ONE (1)

the following activity has occurred at the above referenced project during the past year, between June 1, 20_____ and May 30, 20_____.

Permit Condition Activity	% of Completion	Date of anticipated Completion	Date of Completion

(Use additional Sheets As Necessary)

Benchmark Description (one per major control structure:)

Not Applicable

_____

_____

_____ _____

Print Name Phone

_____ _____ _____

Permittee's or Authorized Agent's Signature Title and Company Date

This form shall be submitted to the above referenced Department Office During June of each year for activities whose duration of construction exceeds one year.

Form: #62-343.900(4), F.A.C.
Form Title: Annual Status Report
Date: October 3, 1995

DEPARTMENT OF ENVIRONMENTAL PROTECTION
PERMIT
STATE OF FLORIDA