



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

JAN 13 2012

Tampa Port Authority
c/o Mr. Bruce Laurion, P.E., Port Engineer
1101 Channelside Drive
Tampa, FL 33602

Project Name: Titan – TPA Aggregate Unloading Facility – Phase I and Phase II
File No.: 29-0266058-002

Dear Mr. Laurion:

Enclosed is the Environmental Resource Permit, DEP Project No. 29-0266058-002 issued pursuant to Part IV of Chapter 373, Florida Statutes, and Title 62, Florida Administrative Code.

Appeal rights for you and for any affected third party are described in the text of the permit along with conditions that must be met when authorized activities are undertaken.

You, as the applicant, are responsible for all aspects of permit compliance. You should therefore review this permit document carefully to ensure compliance with the general and specific conditions contained herein.

Please be aware of permit Specific Conditions #3, 4, and 5, which respectively state that prior to construction, the applicant shall provide Phase I and Phase II dewatering plans, as applicable, at a meeting with the Department if dewatering is anticipated, have the underdrain filter material tested at a certified independent laboratory, and implement the erosion control measures shown in the project drawings.

If you have any questions about this document, please contact me at (813) 632-7600, ext. 470.

Thank you for your participation in the permit process and in managing the natural resources of the State of Florida.

Sincerely yours,

Dennis Pierson
Engineering Specialist
Environmental Resource Permitting

Enc: Environmental Resource Permit with attachments (30 pages)



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Permittee/Authorized Entity:

Tampa Port Authority
c/o Mr. Bruce Laurion, P.E., Port Engineer
1101 Channelside Drive
Tampa, FL 33602

Titan – TPA Aggregate Unloading Facility Phase I and Phase II

Authorized Agent:

Titan America, LLC
c/o Ms. Cindy Burns
Director of Environmental and Project Development
455 Fairway Drive
Deerfield Beach, FL 33441

**Environmental Resource Stormwater Permit
State-owned Submerged Lands Authorization – Not Applicable**

**U.S. Army Corps of Engineers Authorization –
Separate Corps Authorization Required**

Permit No.: 29-0266058-002

Permit Issuance Date: JAN 13 2012

Permit Construction Phase Expiration Date: JAN 13 2017



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Environmental Resource Stormwater Permit

Permittee: Tampa Port Authority

Permit No: 29-0266058-002

Permit Issuance Date: JAN 13 2012

Permit Construction Phase Expiration Date: JAN 13 2017

AUTHORIZATIONS

Project Description

This permit supersedes and replaces Permit 29-0266058-001 and authorizes a 5-acre Phase I (Parcel B) and a 20-acre Phase II (Parcel C) of this project for the construction of a 25-acre aggregate unloading facility for Titan America, LLC, on Parcel B. Aggregate will be off-loaded from ships docking at the future berth 218 wharf, at the Port of Tampa. The work previously authorized by Permit 29-0266058-001 in Parcel C has not yet been constructed and will be referenced in this permit as Phase-II.

Construction for Phase I will include a gravel access road, conveyers, a storage area for aggregate piles, two-foot high berms on the north and east sides of the project area, and a surface water management system (SWMS) with a drainage swale and a dry detention surface pond with an underdrain and a skimmer equipped control structure. The Phase I SWMS will provide ½-inch of water quality treatment and discharge rate attenuation for the surface water runoff from the 5-acre project area. The access road will extend through Parcel B and terminate at approximately 160 feet into Parcel C. Impacts to wetlands or other surface waters are limited to fifty square feet within an existing ditch due to construction of the Phase I outfall structure.

Construction for Phase II will include a non-discharging truck wheel wash at the access road entrance (northeast corner) conveyers, a storage area for aggregate piles, and a wet detention SWMS comprised of two ponds that will be connected by a 24-inch pipe, a littoral zone, and a skimmer-equipped outfall control structure. The Phase II SWMS will provide one-inch of water quality treatment for the surface water runoff from an 11.48-acre drainage basin that includes the conveyor and aggregate storage area. The remainder of Parcel C will not be developed and will be drained by two existing ditches, the north/south and east/west drainage ditches. The north/south drainage ditch originates on the east side of Maritime

Boulevard and extends south along the east side of the Parcel "B" portion of the project area and connects to the east/west drainage ditch with a 36-inch concrete pipe. The east/west drainage ditch discharges west to Tampa Bay. No impacts to wetlands or other surface waters are proposed or authorized.

The project described above may only be conducted accordance with the terms, conditions and attachments contained in this permit. The issuance of this permit does not infer, nor guarantee, nor imply that future permits or modifications will be granted by the Department.

State-owned Submerged Lands Authorization

As staff to the Board of Trustees, the Department has reviewed the activity described above and has determined that the activity is not located on submerged lands owned by the State of Florida. Therefore, your project is not subject to the requirements of Chapter 253, Florida Statutes (F.S.).

Federal Authorization

A copy of this permit has been sent to the U.S. Army Corps of Engineers (USACE). The USACE may require a separate permit. Failure to obtain any required federal permits prior to construction could subject you to enforcement action by that agency.

Coastal Zone Management

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

Water Quality Certification

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

Other Authorizations

You are advised that authorizations or permits for this project may be required by other federal, state or local entities, including the municipality/county in which the project is located. Please be sure to contact the local county building and environmental department to obtain these required authorizations. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

PROJECT LOCATION

The activities authorized by this permit are located at the Port of Tampa and at the south end of Hookers Point, adjacent to an existing Titan America, LLC, cement terminal, at 4229 Maritime Boulevard, Tampa, Florida 33605, Hillsborough County, in Section 6, Township 30 South, Range 19 East and Section 31, Township 29 South, Range 19 East.

PERMIT CONDITIONS

The activities described herein must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The limits, conditions and locations of work shown in the attached drawings**
- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to commencing the authorized activities, and to ensure that the work is conducted in conformance with all the terms, conditions, and drawings. If you are utilizing a contractor, the contractor should also read and understand these conditions and drawings prior to commencing the authorized activities. Failure to comply with these conditions shall constitute grounds for revocation of the permit and appropriate enforcement action by the Department.

Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit/certification/authorization as specifically described herein

SPECIFIC CONDITIONS

1. Submittals required herein (e.g., progress reports, as-built drawings, etc.) shall include the permittee's name and permit number 29-0266058-002 and shall be directed to:

Department of Environmental Protection
Southwest District
Submerged Lands and Environmental Resource Program
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

2. In the event the permittee files for bankruptcy prior to completion of work permitted and required by this permit, the permittee must notify the Department within 30 days of filing. The notification shall identify the bankruptcy court and case number and shall include a copy of the bankruptcy petition.

PRIOR TO CONSTRUCTION CONDITIONS (The permittee shall comply with the following conditions prior to commencement of any construction activities)

3. If the dewatering of groundwater is anticipated during construction activities for Phase I or for Phase II, then subsequent to the selection of the contractor to perform the authorized activity and prior to the initiation of work authorized by this permit, the permittee and the contractor shall schedule and attend a pre-construction conference with a representative of the Department's State Lands and Environmental Resource

Program staff. The permittee shall provide a dewatering plan and a permit from the Department's industrial wastewater section for the proposed off-site discharge of produced groundwater during the Phase I or Phase II construction at the pre-construction conference.

4. The permittee shall have the filter material that will be used in construction of the Phase- I SWMS underdrain treatment unit tested at a certified independent laboratory for the following parameters listed in Section 5.2.b.3 of the Southwest Florida Water Management District Environmental Resource Permitting Information Manual, Part B, Basis of Review: uniformity coefficient, effective grain size, sieve analysis, percent silts, clays, and organic matter, and permeability test (constant head). The engineer of record shall certify that:
 - a. the filter media used in construction of the treatment system is of same source as material used for the certified laboratory test, and
 - b. that the material meets the requirements listed Section 5.2.b.3 of the Basis of Review. The permittee shall submit the test results and the engineer certification to the Department with the as-built drawings required by Specific Condition No. 13.
5. Best management practices for erosion control shall be implemented prior to construction commencement for and shall be maintained at all times during construction to prevent siltation and turbid discharges in excess of State water quality standards (>29 NTU's above background, pursuant to Rule 62-302, F.A.C.).
 - a. Erosion control methods for Phase I shall be implemented as depicted in Sheets E1, D1, and D2 of the attached permit drawings.
 - b. Erosion control methods for Phase II shall be implemented as depicted in Sheet C4 of the attached permit drawings.

CONSTRUCTION CONDITIONS

6. Side slopes, exposed and/or disturbed land surfaces shall be stabilized with sod, seed or mulch within 48 hours following completion of final grades at the project site to prevent on and off-site erosion, sedimentation, siltation or scouring.
7. The authorized SWMS shall be completed prior to or simultaneously with associated upland development. Occupation of the site shall be in accordance with General Condition 12.

CONSTRUCTION COMPLETION CONDITIONS (The permittee shall comply with the following conditions prior to the transfer to operation phase of the facility. All documentation required below shall be included with the permittee's request to transfer the project to the operation phase [Form No. 62-343.900(7), F.A.C.])

8. The permittee shall submit two copies of signed, dated and sealed as-built drawings to the Department for review and approval within 30 days of completion of construction. The as-built drawings shall be based on the Department permitted construction drawings, which should be revised to reflect changes made during construction. Both the original design and constructed elevation must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. Surveyed dimensions and elevations required shall be verified and signed, dated and sealed by a Florida registered surveyor or engineer. *As-builts shall be submitted to the Department regardless of whether or not deviations are present. In addition to the "As-built Certification" form; the permittee shall submit the "Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase" form as required in General Condition #13.*

a. The following information shall be verified on the as-built drawings for Phase I from the following engineering drawings signed and sealed by Mr. Al Andreansky, P.E., #39387:

<u>Plan View/Cross-Section</u>	<u>Sheet Number</u>	<u>Date</u>
Phasing Layout	L2 of 2	November 22, 2011
Proposed Site Layout	S2 of 2	November 22, 2011
Stormwater System Details	D1 of 2	November 22, 2011
Stormwater System Details	D2 of 2	December 13, 2011

b. The following information shall be verified on the as-built drawings for Phase II from the following engineering drawings signed and sealed by Ms. Karen Somerder, P.E., #54865 on April 2, 2007:

<u>Plan View/ Cross-Section</u>	<u>Sheet Number</u>
Parcel C on Overall Drainage Plan	C4
CS-2 and Section C-C on Drainage Details	C5

OPERATING CONDITIONS (The permittee shall comply with the following operation conditions for the life of the facility.)

9. The proposed operations at this facility fall under Sector Q, SIC Code 4491, for Water Transportation and qualifies for a State of Florida Multi-Sector Generic Permit for Stormwater Discharge Associated with Industrial Activity (MSGP). Prior to initiating operations at this facility, this MSGP shall be obtained from Mr. Steven M. Kelly, Environmental Consultant (ph. 813-632-7600, ext 457, fax 813-632-7662, email Steven.Kelly@dep.state.fl.us), Florida Department of Environmental Protection, Southwest District, Water Resource Management, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926

10. Beginning 18 months after operation is authorized and every 18 months thereafter, the Operation and Maintenance Entity shall inspect the Phase I swale and dry detention pond with an underdrain and submit inspection reports in the form required by the Department (see attached FDEP Inspection Certification Form, 62-343.900(6), F.A.C.)
11. A minimum of 35 percent of the area of the Phase II wet detention pond shall be comprised of a vegetated littoral shelf shown on Sheet C4 of the attached project drawings. The littoral shelf shall be vegetated with native wetland species as defined by Rule 62-340, F.A.C. Should the establishment of native vegetation not be accomplished within 24 months of construction of the wet detention pond, the permittee shall plant the littoral shelf to achieve the required coverage. Periodic replanting is required if the areal coverage of the littoral shelf falls below the 35 percent coverage during the life of the facility. Details on the size of the littoral shelf in relation to the pond shall be included with the inspection certification reports required in Specific Condition No. 13.
12. Permanent signs shall be posted around the Phase II wet detention ponds and the signs shall clearly read:

Stormwater Treatment Pond
No mowing or spraying of aquatic vegetation
allowed unless authorized by FDEP.
Call the Department of Environment Protection at
(813) 632-7600 for more information

The signs shall consist of aluminum posts, driven well into the ground and extending a minimum of three feet above the ground, with a highly visible aluminum sign (minimum 12 inches by 12 inches) bolted to the post. The signs shall be posted at 100-foot intervals and in conspicuous locations along around the pond perimeters and be maintained for the life of the facility.

13. Beginning 24 months after operation is authorized and every 24 months thereafter, the Operation and Maintenance Entity shall inspect the Phase II wet detention ponds and submit inspection reports in the form required by the Department (see attached FDEP Inspection Certification Form, 62-343.900(6), F.A.C.)
14. The maintenance of the Phase I and Phase II surface water management systems shall be in accordance with the attached "Operation & Maintenance Plan". It is the responsibility of the permittee to ensure that that the surface water management systems are functioning as designed.

GENERAL CONDITIONS

1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by Department staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner that does not cause violations of state water quality standards. The permittee shall implement best management practices for erosion and 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 seven 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 modification prior to the dewatering event. 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 seven 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 SWMS, 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 deviations 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.
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.

NOTICE OF RIGHTS

This permit is hereby final unless a sufficient petition for an administrative hearing is timely filed under Sections 120.569 and 120.57 of the Florida Statutes as provided below. The procedures for petitioning for a hearing are set forth below.

Mediation is not available.

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. 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.

Because the administrative hearing process is designed to re-determine final agency action on the application, the filing of a petition for an administrative hearing may result in a modification of the permit or even a denial of the application. If a sufficient petition for an administrative hearing or request for an extension of time to file a petition is timely filed, this permit automatically becomes only proposed agency action on the application, subject to the result of the administrative review process. Accordingly, the applicant is advised not to commence construction or other activities under this permit until the deadlines noted below for filing a petition for an administrative hearing, or request for an extension of time has expired.

Under rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon. If a

request is filed late, the Department may still grant it upon a motion by the requesting party showing that the failure to file a request for an extension of time before the deadline was the result of excusable neglect.

In the event that a timely and sufficient petition for an administrative hearing is filed, other persons whose substantial interests will be affected by the outcome of the administrative process have the right to petition to intervene in the proceeding. Any intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

In accordance with Rule 62-110.106(3) F.A.C., petitions for an administrative hearing by the applicant must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within 21 days of receipt of such notice, regardless of the date of publication.

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 for an administrative hearing 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.

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

- (a) The name and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action;

- (f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

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, F.A.C. Under Sections 120.569(2)(c) and (d), F.S., a petition for administrative hearing must be dismissed by the agency if the petition does not substantially comply with the above requirements or is untimely filed.

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

This permit constitutes an order of the Department. The applicant has the right to seek judicial review of the order under Section 120.68, F.S., 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. The applicant, or any party within the meaning of Section 373.114(1)(a), F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1), F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when the final order is filed with the Clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



William L. Vorstadt
Program Administrator
Submerged Lands and Environmental
Resource Program
Southwest District

WLV/dp

Attachments:

- Commencement notice /62-343.900(3) (1 page)
- As-built certification/62-343.900(5) (1 page)
- Inspection certification/62-343.900(6) (1 page)
- Transfer construction to operation phase/62-343.900(7) (1 page)
- Application for transfer of an ERP /62-343.900(8) (1 page)
- Project Location Map (1 page)
- Project Drawings (7 pages)
- Operation and Maintenance Instructions (3 pages)

Copies furnished to:

U.S. Army Corps of Engineers
Titan America, LLC, c/o Ms. Cindy Burns, Director of Environmental and Project
Development, 455 Fairway Drive, Deerfield Beach, FL 33441
Mr. Al Andreansky, P.E., P.O. Box 456, Palm Harbor, FL 34682-0456

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this permit, including all copies, was mailed before the close of business on 1/13/12, to the above listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, under 120.52(7) of the Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

ERobinson 1/13/12
Clerk Date

ENVIRONMENTAL RESOURCE PERMIT Construction Commencement Notice

Project:

Phase:

I hereby notify the Department of Environmental Protection that the construction of the surface water management system authorized by Environmental Resource Permit Number _____ has commenced / is expected to commence on _____ 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 construction commencement date is not known, Department staff should be so notified in writing in order to satisfy permit conditions.

Permittee or Authorized Agent

Title and Company

Date

Phone

Address

ENVIRONMENTAL RESOURCE PERMIT
AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL

Permit Number:

Project Name:

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 Land Surveyor licensed in the State of Florida.

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:

ENVIRONMENTAL RESOURCE PERMIT INSPECTION CERTIFICATION

Permit Number:

Project Number:

Inspection Date(s):

Inspection results: (check one)

I hereby certify that I or my designee under my direct supervision have inspected the system at the above referenced project and that the system appears to be functioning in accordance with the requirements of the permit and Chapter 373 F.S. (as applicable).

The following necessary maintenance was conducted:

I hereby certify that I or my designee under my direct supervision has inspected the system at the above referenced project and that the system does not appear to be functioning in accordance with the requirements of the permit and Chapter 373 F.S. (as applicable). I have informed the operation and maintenance entity of the following: (a) that the system does not appear to be functioning properly, (b) that maintenance is required to bring the system into compliance, and (c) if maintenance measures are not adequate to bring the system into compliance, the system may have to be replaced or an alternative design constructed subsequent to Department approval.

Name

Signature of Professional Engineer

Company Name

Florida Registration Number

Company Address

Date

City, State, Zip Code

Telephone Number

(affix seal)

Within 30 days of completion of the inspection, submit two copies of the form to the following Department Office:

Department of Environmental Protection

Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase

(To be completed and submitted by the operating entity)

Florida Department of Environmental Protection

It is requested that Department Permit Number _____ authorizing the construction and operation of a surface water management system for the below mention project be transferred from the construction phase permittee to the operation phase operating entity.

Project:

From: Name:
Address:
City: State: Zip:

To: Name:
Address:
City: State: Zip:

The surface water management facilities are hereby accepted for operation and maintenance in accordance with the engineers certification and as outlined in the restrictive covenants and articles of incorporation for the operating entity. Enclosed is a copy of the document transferring title of the operating entity for the common areas on which the surface water management system is located. Note that if the operating entity has not been previously approved, the applicant should contact the Department staff prior to filing for a permit transfer.

The undersigned hereby agrees that all terms and conditions of the permit and subsequent modifications, if any, have been reviewed, are understood and are hereby accepted. Any proposed modifications shall be applied for and obtained prior to such modification.

Operating Entity:

Name

Title:

Telephone:

Enclosure

- copy of recorded transfer of title surface water management system
 Coy of plat(s)
 Copy of recorded restrictive covenants, articles of incorporation, and certificate of incorporation.



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 surfacewater 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): _____

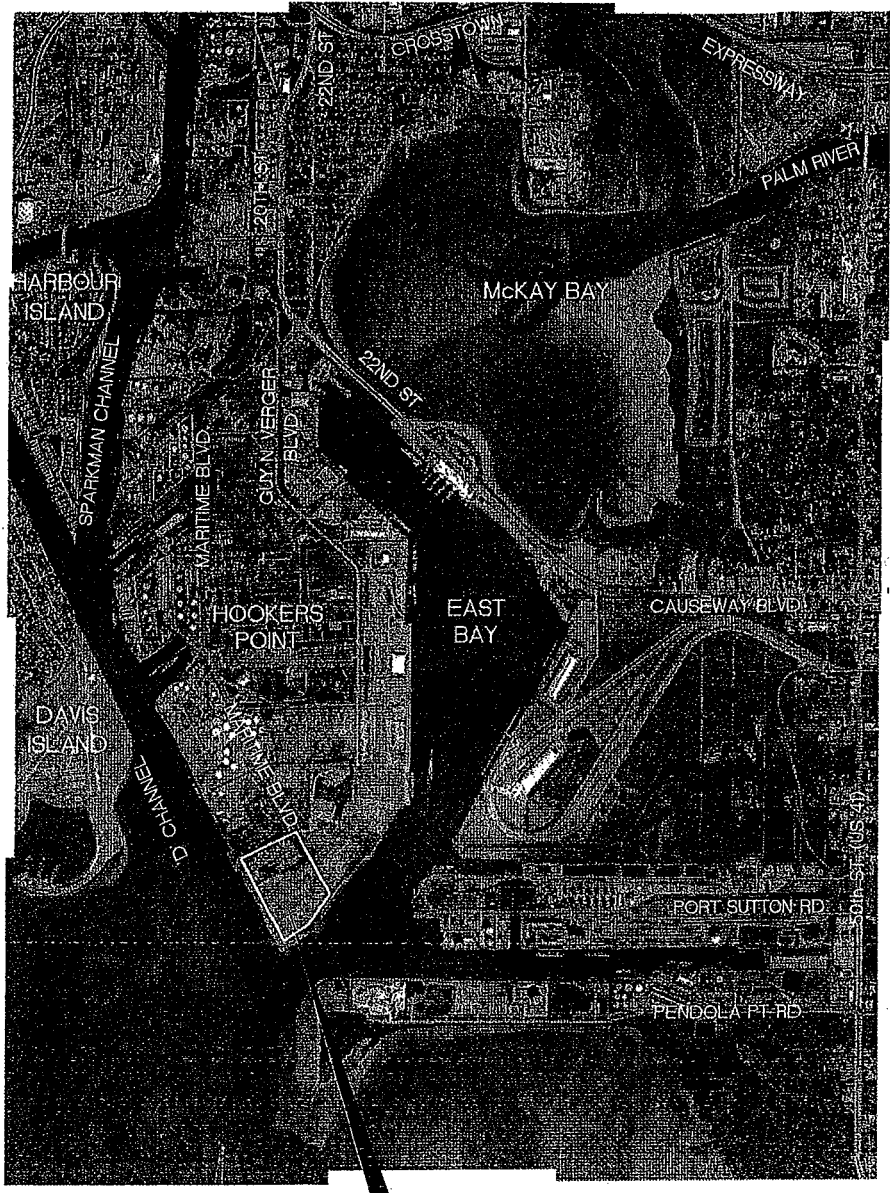
Title (if any): _____ Date: _____

Project Engineer Name (if applicable) _____

Mailing Address: _____

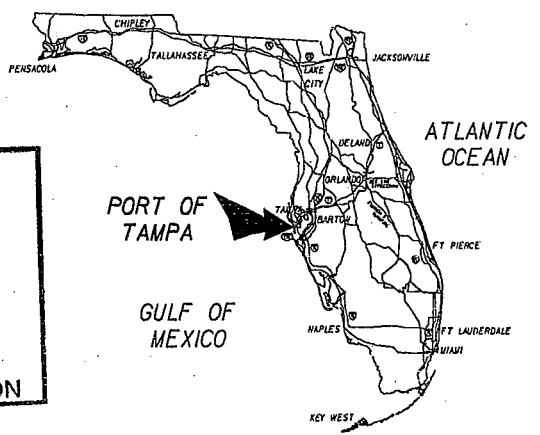
Telephone: (_____) _____

SCANNER 2008/06/02 PL DEP SWD C3



PROJECT LOCATION

APPROVED
 STATE OF FLORIDA
 APR 20 2007
 DEPARTMENT OF
 ENVIRONMENTAL PROTECTION



PROJECT LOCATION
 SECTIONS 31, 6
 TOWNSHIP 29S, 30S
 RANGE 19E, 19E



HPA, Inc.
 4010 Boy Scout Blvd., Suite 580
 Tampa, FL 33607 (813) 876-6800
 CERT. OF AUTHORIZATION # 00008178
 EXP.: FEB. 28, 2007

DESIGNED BY
KLS
 DRAWN BY
KLS
 CHECKED BY
BRT
 PROJECT ENGR
KLS
 TPA PROJ # 02805

TITAN - TPA AGGREGATE UNLOADING FACILITY

PROJECT LOCATION
 S. HOOKER'S POINT HILLSBOROUGH COUNTY, FL.
 APPLICANT - TITAN AMERICA, LLC.

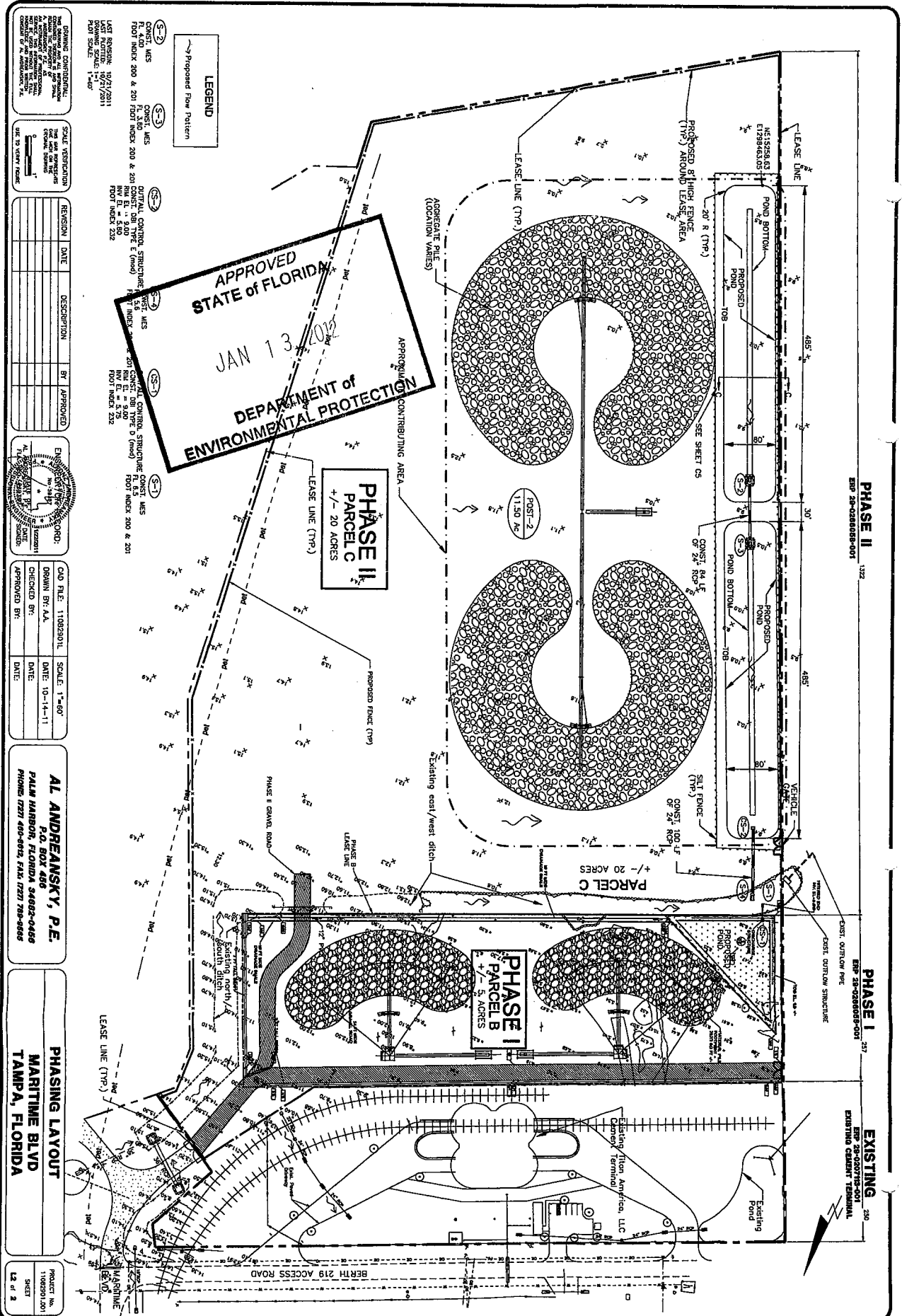
SCALE
N.T.S.
 DATE
5/15/08
 REVISION
 DRAWING NO.

/

PHASE II 1322
 EFP 25-030018-001

PHASE I 217
 EFP 25-030018-001

EXISTING 250
 EFP 25-030018-001
 EXISTING CEMENT TERMINAL



LEGEND
 Proposed flow pattern

- (S-1) CONST. M.S. OUTLET CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-2) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE E (IND) FOOT INDEX 200 & 201
- (S-3) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-4) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-5) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-6) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-7) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-8) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-9) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-10) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-11) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-12) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-13) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-14) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-15) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-16) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-17) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-18) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-19) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201
- (S-20) CONST. M.S. CONCRETE STRUCTURE 15.5' DIAMETER 20' HIGH CONST. DBI TYPE D (IND) FOOT INDEX 200 & 201

REVISION	DATE	DESCRIPTION	BY	APPROVED



DATE FILED:	11/08/2011	SCALE:	1"=60'
DRAWN BY:	A.A.	DATE:	10-14-11
CHECKED BY:		DATE:	
APPROVED BY:		DATE:	

AL ANDREANSKY, P.E.
 P.O. BOX 466
 PALM HARBOR, FLORIDA 34882-0466
 PHONE: (727) 490-9895, FAX: (727) 798-9585

PHASING LAYOUT
 MARITIME BLVD
 TAMPA, FLORIDA

PRODUCT NO.
 1100299.001
 SHEET
 12 of 2

MISC. NOTES

LEGEND

- Symbol for Proposed Structure
- Symbol for Existing Structure
- Symbol for Proposed Road
- Symbol for Existing Road
- Symbol for Proposed Utility
- Symbol for Existing Utility
- Symbol for Proposed Easement
- Symbol for Existing Easement

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
2. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
3. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES.
4. THE CONTRACTOR SHALL MAINTAIN PROPER EROSION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PROCESS.
5. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE PATTERNS AND PREVENT ANY UNDESIRABLE DRAINAGE CHANGES.
6. THE CONTRACTOR SHALL MAINTAIN PROPER RECORD DRAWINGS AND AS-BUILT DRAWINGS.
7. THE CONTRACTOR SHALL MAINTAIN PROPER SAFETY MEASURES AND SIGNALING THROUGHOUT THE CONSTRUCTION PROCESS.
8. THE CONTRACTOR SHALL MAINTAIN PROPER COMMUNICATION WITH ALL STAKEHOLDERS.
9. THE CONTRACTOR SHALL MAINTAIN PROPER DOCUMENTATION OF ALL CONSTRUCTION ACTIVITIES.
10. THE CONTRACTOR SHALL MAINTAIN PROPER RECORDING OF ALL CONSTRUCTION ACTIVITIES.

APPROVED
STATE of FLORIDA

 JAN 13 2012
DEPARTMENT of
ENVIRONMENTAL PROTECTION

DRAWING CONVENTIONS:
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
 THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
 THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES.
 THE CONTRACTOR SHALL MAINTAIN PROPER EROSION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PROCESS.
 THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE PATTERNS AND PREVENT ANY UNDESIRABLE DRAINAGE CHANGES.
 THE CONTRACTOR SHALL MAINTAIN PROPER RECORD DRAWINGS AND AS-BUILT DRAWINGS.
 THE CONTRACTOR SHALL MAINTAIN PROPER SAFETY MEASURES AND SIGNALING THROUGHOUT THE CONSTRUCTION PROCESS.
 THE CONTRACTOR SHALL MAINTAIN PROPER COMMUNICATION WITH ALL STAKEHOLDERS.
 THE CONTRACTOR SHALL MAINTAIN PROPER DOCUMENTATION OF ALL CONSTRUCTION ACTIVITIES.
 THE CONTRACTOR SHALL MAINTAIN PROPER RECORDING OF ALL CONSTRUCTION ACTIVITIES.

SCALE: VERTICAL DIMENSIONS: 1"=10'-0"
 HORIZONTAL DIMENSIONS: 1"=40'-0"
 DATE: 09-07-11
 DRAWN BY: A.A.
 CHECKED BY: A.A.
 APPROVED BY: A.A.

REVISION	DATE	DESCRIPTION	BY	APPROVED

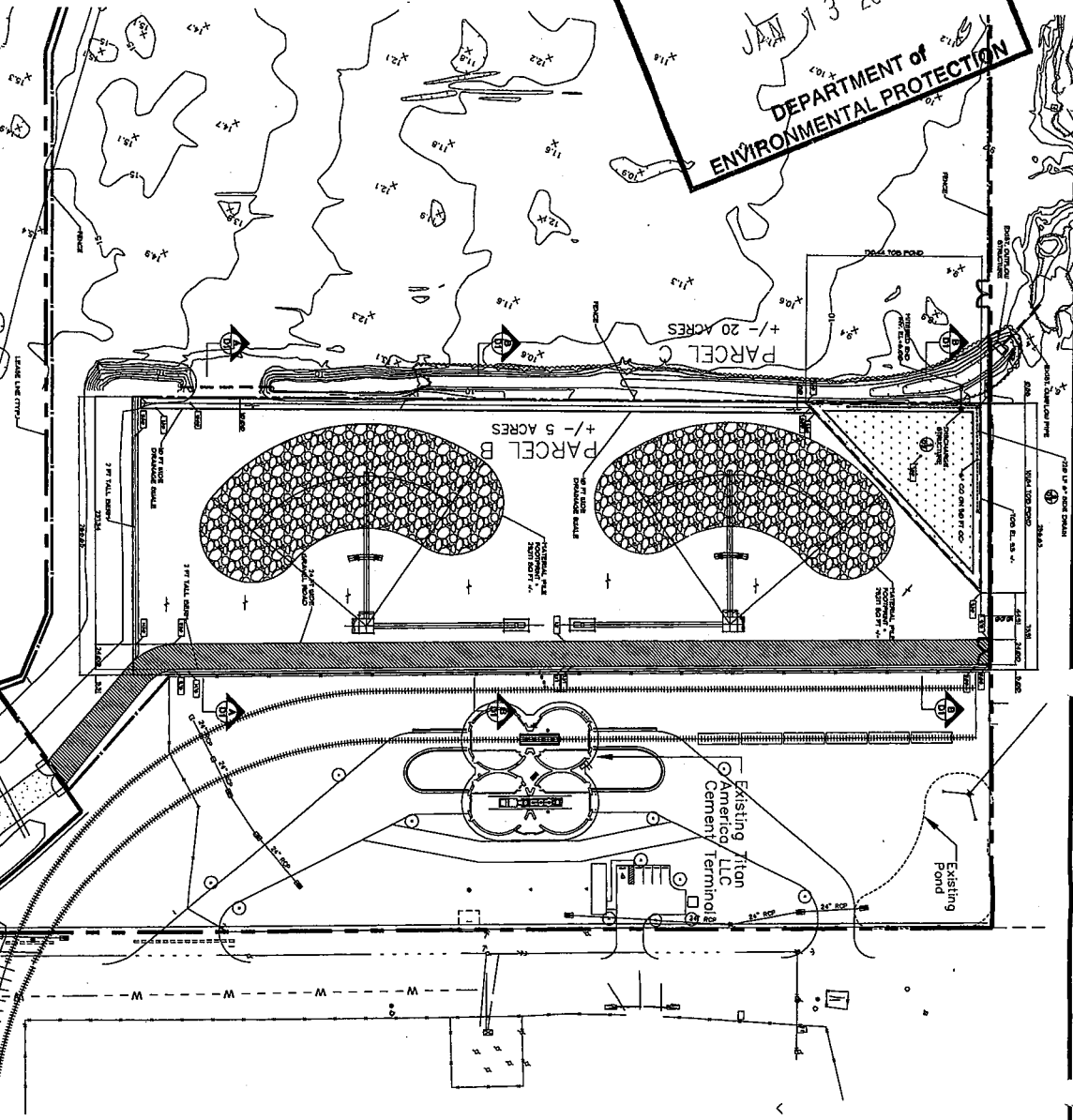
ENGINEER
 A.L. ANDREANSKY, P.E.
 11000 10th St.
 Palm Harbor, FL 34682-0468
 PHONE: (727) 480-8812 FAX: (727) 788-8868

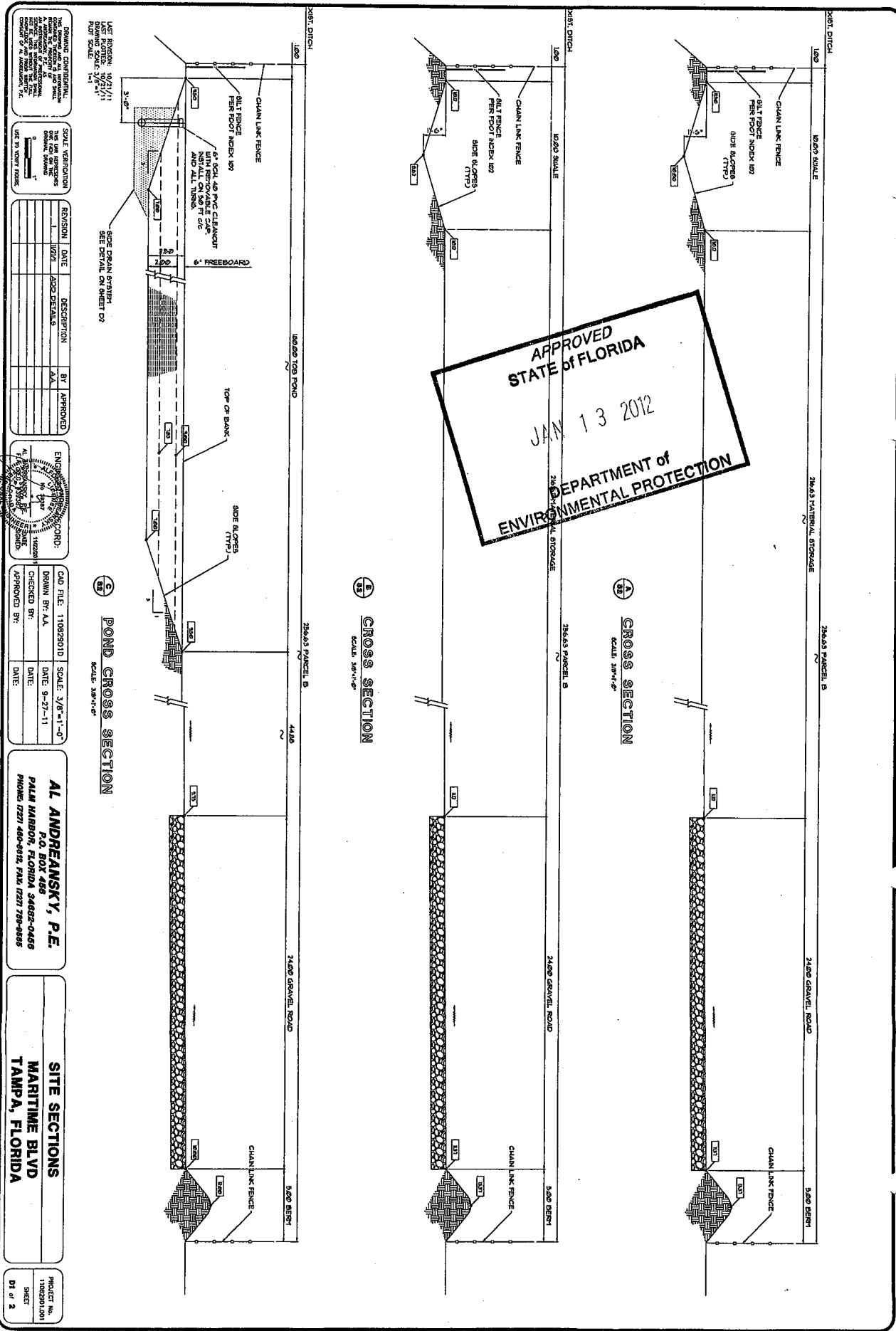
CAD FILE: 110828015 SCALE: 1"=40'
 DRAWN BY: A.A. DATE: 09-07-11
 CHECKED BY: A.A. DATE: 09-07-11
 APPROVED BY: A.A. DATE: 09-07-11

AL ANDREANSKY, P.E.
 P.O. BOX 468
 PALM HARBOR, FLORIDA 34682-0468
 PHONE: (727) 480-8812 FAX: (727) 788-8868

PROPOSED SITE LAYOUT
MARITIME BLVD
TAMPA, FLORIDA

PROJECT No. 110828015
 SHEET 82 of 2





APPROVED
 STATE OF FLORIDA
 JAN 13 2012
 DEPARTMENT of
 ENVIRONMENTAL PROTECTION

DRAWING CONVENTIONS:
 DIMENSIONS: UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN FEET AND INCHES. FRACTIONS SHALL BE SHOWN AS NUMERATOR OVER DENOMINATOR.
 UNITS: ALL DIMENSIONS SHALL BE IN FEET AND INCHES.
 SCALE: AS SHOWN ON SHEET.
 DATE: 10/21/11
 PROJECT NO.: 110829010

REVISIONS:
 NO. DATE DESCRIPTION BY APPROVED
 1 10/21/11 ADD DETAILS A.A.
 2 11/15/11 SIDE DRAIN SYSTEM SEE DETAIL ON SHEET D2
 3 11/15/11 SIDE DRAIN SYSTEM SEE DETAIL ON SHEET D2

NO.	DATE	DESCRIPTION	BY	APPROVED
1	10/21/11	ADD DETAILS	A.A.	
2	11/15/11	SIDE DRAIN SYSTEM		
3	11/15/11	SIDE DRAIN SYSTEM		

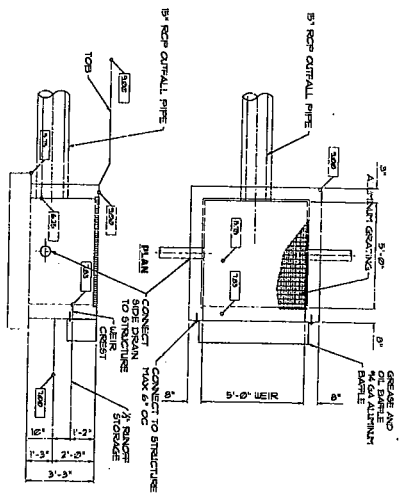
ENGINEER:
 A. ANDREANSKY, P.E.
 110829010
 DATE: 11/15/11

OLD FILE: 110829010 | SCALE: 3/8"=1'-0"
 DRAWN BY: A.A. | DATE: 9-27-11
 CHECKED BY: | DATE: |
 APPROVED BY: | DATE: |

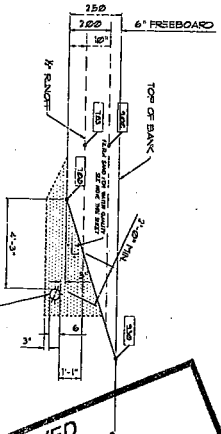
AL ANDREANSKY, P.E.
 P.O. BOX 486
 PALM HARBOR, FLORIDA 34682-0486
 PHONE: (727) 480-8912, FAX: (727) 788-8865

SITE SECTIONS
 MARITIME BLVD
 TAMPA, FLORIDA

PROJECT NO.: 110829010
 SHEET: D1 of 2



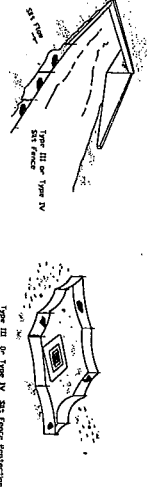
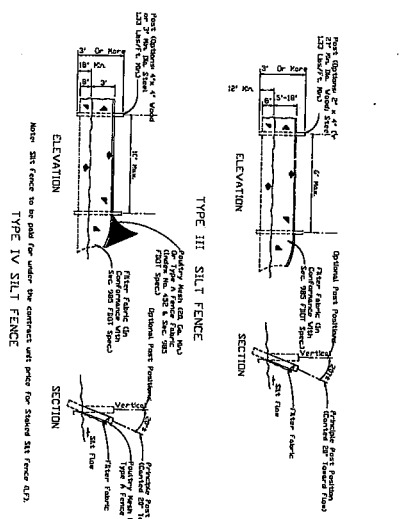
CUTFALL STRUCTURE
SCALE: 3/8" = 1'-0"



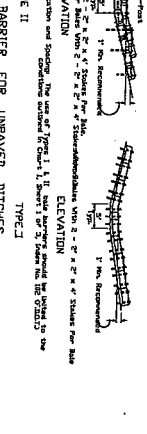
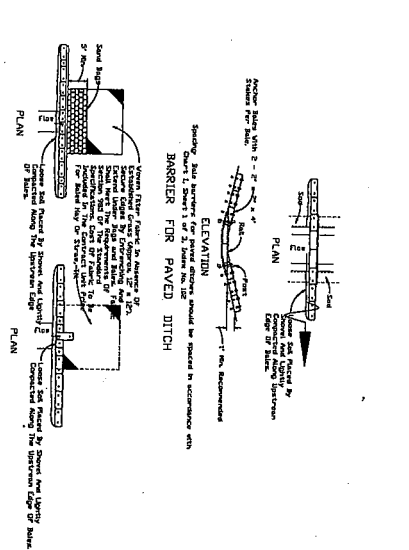
SIDE DRAIN DETAIL
SCALE: 3/8" = 1'-0"

1. FILTER MATERIAL SPECIFICATIONS:
 1. WASHED MATERIAL SHALL BE USED FROM ROAD AND BRIDGE RECONSTRUCTION PROJECTS.
 2. WASHED MATERIAL SHALL BE USED FROM ROAD AND BRIDGE RECONSTRUCTION PROJECTS.
 3. WASHED MATERIAL SHALL BE USED FROM ROAD AND BRIDGE RECONSTRUCTION PROJECTS.
 4. WASHED MATERIAL SHALL BE USED FROM ROAD AND BRIDGE RECONSTRUCTION PROJECTS.

APPROVED
 STATE OF FLORIDA
 JAN 13 2012
 DEPARTMENT of
 ENVIRONMENTAL PROTECTION



SILT FENCE TYPE III & IV



HAY BALE BARRIERS TYPE I & II

DRAINING CONSTRUCTION:
 1. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DIVISION 200, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR WATERWAY CONSTRUCTION, DIVISION 300.

REVISION	DATE	DESCRIPTION	BY	APPROVED
1	11/29/11	ISSUE FOR PERMIT	AA	AA
2	11/29/11	ISSUE FOR PERMIT	AA	AA

ENGINEERING RECORD:
 No. 23327
 11/29/11
 AL ANDREANSKY, P.E.
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF FLORIDA

CAD FILE:	SCALE:	DATE:
11082901D	3/8" = 1'-0"	9-27-11

AL ANDREANSKY, P.E.
 P.O. BOX 458
 PALM HARBOR, FLORIDA 34682-0458
 PHONE: (727) 490-8812, FAX: (727) 798-9866

STORMWATER SYSTEM DETAILS
 MARITIME BLVD
 TAMPA, FLORIDA

PROJECT NO. 11082901D
 SHEET 02 OF 2

MISC. NOTES

LEGEND

- Proposed Erosion Control Structure
- Proposed Erosion Control Structure
- Proposed Erosion Control Structure

APPROVED
STATE of FLORIDA
JAN 13 2012
DEPARTMENT of
ENVIRONMENTAL PROTECTION

LAST REVISION: 11/21/11
DRAWING SCALE: 1"=50'
PLOT SCALE: 1"=1'

SCALE VERIFICATION
DATE: 11/15/11
BY: [Signature]

REVISION	DATE	DESCRIPTION	BY	APPROVED

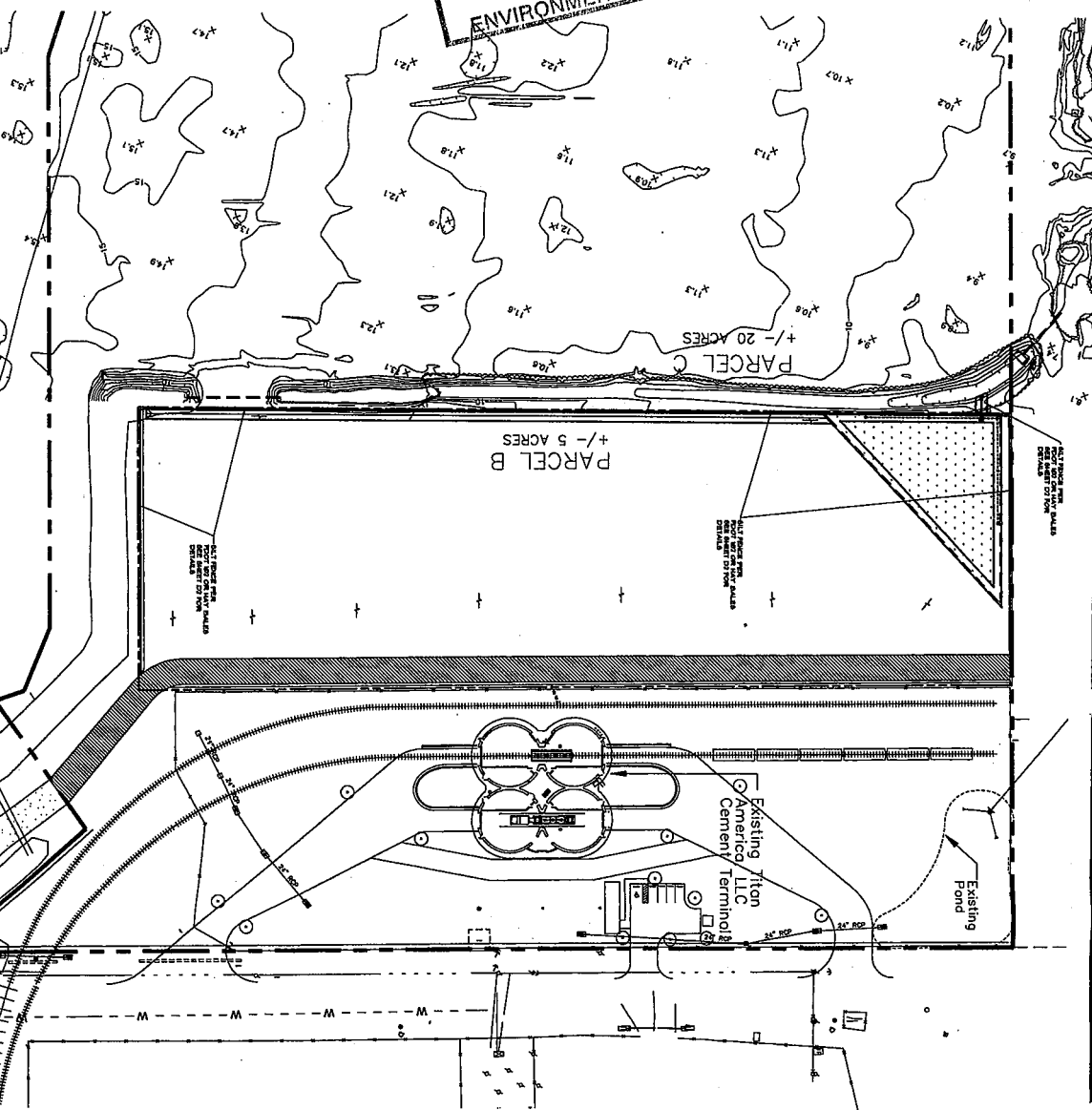
ENGINEER'S SEAL
AL ANDREANSKY, P.E.
Professional Engineer
No. 11829015
State of Florida

DDO FILE: 110829015 SCALE: 1"=50'
DRAWN BY: A.A. DATE: 11-15-11
CHECKED BY: DATE:
APPROVED BY: DATE:

AL ANDREANSKY, P.E.
P.O. BOX 488
PALM HARBOR, FLORIDA 34682-0488
PHONE: 827 480-8882 FAX: 827 789-8585

EROSION CONTROL LAYOUT
MARTINE BLVD
TAMPA, FLORIDA

PROJECT No.
110829015
SHEET
E1 of 3



APPROVED
STATE OF FLORIDA

APR 20 2007

DEPARTMENT OF
ENVIRONMENTAL PROTECTION

APPROVED
STATE OF FLORIDA

DEPARTMENT OF
ENVIRONMENTAL PROTECTION

NO.	DESCRIPTION	DATE	BY	CHK.	DESCRIPTION	DATE	BY
1	REVISED						
2	REVISED						
3	REVISED						
4	REVISED						
5	REVISED						
6	REVISED						
7	REVISED						
8	REVISED						
9	REVISED						
10	REVISED						

HPA
 HPA, Inc.
 4910 Bay A, Suite 200
 West Palm Beach, FL 33411
 (561) 833-1111
 www.hpa.com



Karen Souder, P.E.
 Registration No. 54855
 ENGINEER OF RECORD

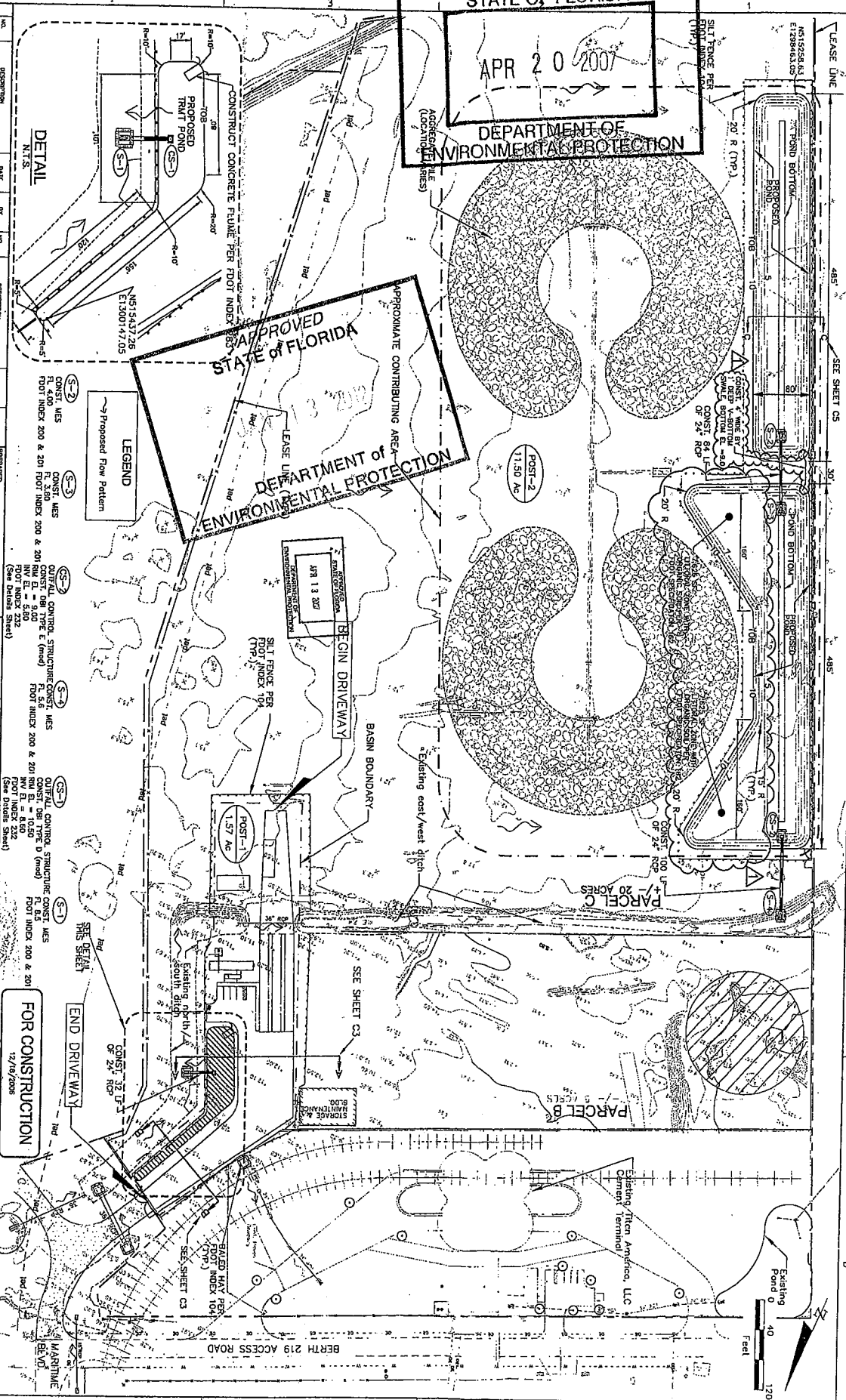
DATE: 12/20/06

TITAN - TPA AGGREGATE UNLOADING FACILITY

OVERALL DRAINAGE PLAN

SHEET NO. C4

Southwest District



Dept. of Environment
 Protection
 Apr 23 2007

APPROVED
STATE OF FLORIDA

APR 20 2007

DEPARTMENT OF
ENVIRONMENTAL PROTECTION

POST-DEVELOPED DRAINAGE SUMMARY

STRAIN POINT	POST-DEVELOPED	POST POND STRIKE
USDA ANNUAL	456 CFS	10.04
5-YR/24-HR	531 CFS	16.13
25-YR/24-HR	918 CFS	18.49

PROPOSED POND DATA

DESIGNATION	SF	AC
POST-DEVELOPED	11,501	0.26
POST-DEVELOPED	10,250	0.22
POST-DEVELOPED	8,501	0.19
POST-DEVELOPED	6,501	0.14
POST-DEVELOPED	4,501	0.10
POST-DEVELOPED	2,501	0.06
POST-DEVELOPED	501	0.01
TOTAL	43,705	0.98

PROPOSED POND CONTROL STRUCTURE DATA

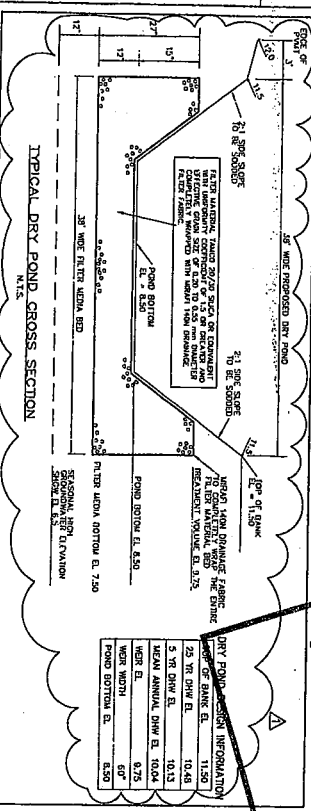
TYPE	SA FT	AREA
1.00	68,228	1,587 AC
2.00	43,724	0,980 AC
3.00	23,204	0,533 AC
4.00	1,843	0,042 AC
TOTAL	136,999	3,142 AC

PROPOSED POND CONTROL STRUCTURE DATA

TYPE	SA FT	AREA
1.00	11,501	0.26
2.00	10,250	0.22
3.00	8,501	0.19
4.00	6,501	0.14
5.00	4,501	0.10
6.00	2,501	0.06
7.00	501	0.01
TOTAL	43,705	0.98

REVISIONS

NO.	DESCRIPTION	DATE	BY	REASON	DATE	BY	REASON
1	REVISED PER COMMENTS	3/23/07	CS				
2	REVISED PER COMMENTS	3/23/07	CS				
3	REVISED PER COMMENTS	3/23/07	CS				

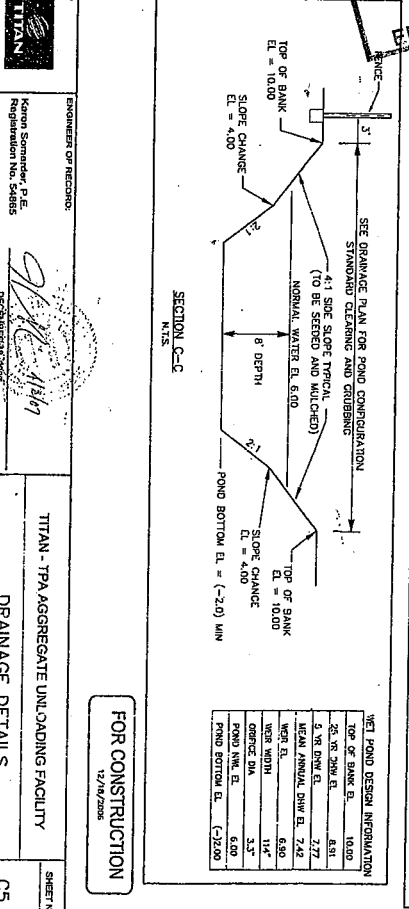
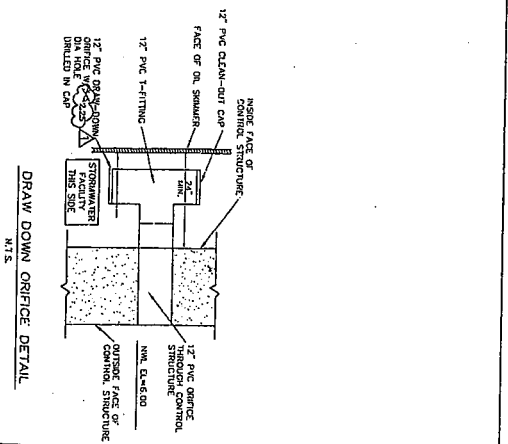
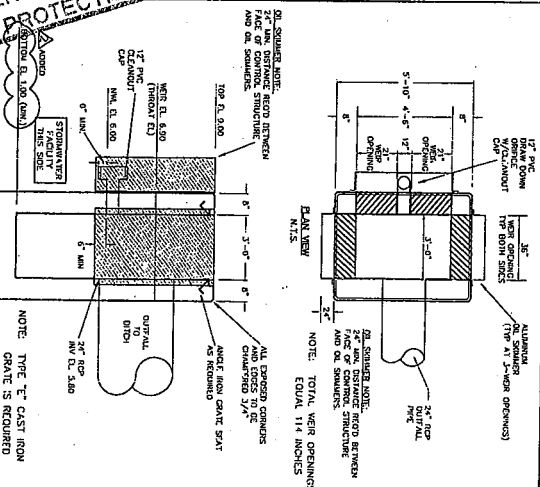
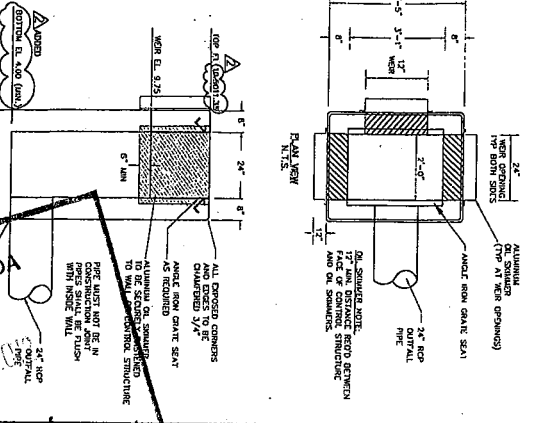


OUTFALL CONTROL STRUCTURE
MODIFIED FOOT TYPE "C" INLET
N.T.S.

APPROVED
STATE OF FLORIDA
JAN 13 2007

DEPARTMENT OF
ENVIRONMENTAL PROTECTION

OUTFALL CONTROL STRUCTURE
MODIFIED TYPE "E" INLET
N.T.S.



TITAN - TPA AGGREGATE UNLOADING FACILITY
DRAINAGE DETAILS
CS

IF SHEET IS LESS THAN 22 X 34 IT IS A REDUCED PRINT. SCALE APPROXIMATE.

Operation and Maintenance Instructions
for Phase I and Phase II of the
Titan-Tampa Aggregate Unloading Facility
Surface Water Management System
Permit No.: 29-0266058-002

The following normal maintenance items, including cleaning or replacement of the various elements of the system, will be required for the surface water management system (SWMS) to continue to operate as designed.

General Maintenance

1. All SWMS pipes, inlets, catch basins, manholes, flumes, pond inflow and outfall structures (including oil skimmers), and discharge pipes should be inspected on a regular basis (monthly or quarterly) and following significant storm events. They shall be maintained by removing built-up debris and vegetation and repairing deteriorating structures.
2. Chemicals, oils, greases or similar wastes are NOT to be disposed of in the SWMS or through storm sewers. Treatment ponds are designed to treat normal road, parking lot, roof, and yard runoff only. Some chemicals may interfere with a treatment pond's functions or kill vegetation and wildlife. Dispose of these potentially dangerous materials properly by taking them to recycling facilities or to collection locations sponsored by many local governments.

Do not dispose of grass clippings in a SWMS. Grass clippings pose problems by smothering desirable vegetation, clogging outfall structures and, when they decompose, may cause unsightly algae blooms that can kill fish.

3. Accumulated pond sediments may contain heavy metals such as lead, cadmium and mercury, as well as other potentially hazardous materials. Therefore, sediments removed from SWMS inlets, pipes and ponds shall be disposed of at an approved facility (check with your county Solid Waste Department or the Florida Department of Environmental Protection for disposal facilities approved to accept treatment pond sediment).
4. Repair or maintenance activities shall not cause or erosion or siltation to adjacent or off-site areas.
5. Alterations (filling, enlarging, etc.) of any part of the SWMS are not permitted without prior approval from the Department and all other applicable governing agencies.
6. Mosquito growth can be minimized in a SWMS by the following measures:
 - Do not dump grass clippings or other organic debris into a SWMS — decaying grass clippings and other decomposing vegetation create ideal conditions for breeding mosquitoes.

- Clean out any obstructions that get into the system. Debris can obstruct flow and harbor mosquito eggs and larvae.
- Remove water lettuce and water hyacinth, which nourish and shelter mosquito larvae.
- Stock ponds with predatory “mosquito fish” – Gambusia minnows, which may be collected from other ponds and ditches and introduced into your SWMS.

Phase I Dry Detention Pond with an Underdrain

1. The dry detention pond is intended to recover its treatment volume within 36 hours. In general, if approximately 36 hours after a rain event you notice that water discharges over the top of the control structure rather than through the underdrain, the pond may not be functioning properly.

Repairs may include scarifying or raking the filter sand, forcing water through the cleanout to cleanse the underdrain pipe, or replacing the filter material. Check the construction plans or contact the Florida Department of Environmental Protection for more information if questions arise.

2. On a monthly basis and following significant storm events, inspect the area in front of the outfall control structure for built-up sediments, vegetation, and debris that impair the operation of the structure. Remove sediments, vegetation, trash and debris to an approved disposal site.

Phase II Wet Detention Pond

1. The side slopes the detention pond shall be inspected for bare spots, damage or erosion. Bare areas shall be sodded or seeded to replace the grass cover. In the case of erosion, replace the missing soil and bring the affected areas back to grade.
2. Maintain, rather than remove, wetland vegetation that becomes established in the littoral zone. Do not cut, mow, use herbicide or use grass carp to remove any of the vegetation in the littoral zone.
3. On a quarterly basis and following significant storm events, inspect the area in front of the outfall control structure and remove built-up sediments, vegetation, and debris that impair the operation of the structure.
4. When littoral zone vegetation and sediment accumulate to such an extent that water depth decreases, the littoral zone may need to be re-graded and re-vegetated. When it appears that the pond has reached this state, contact the Department prior top large scale maintenance.

Sinkholes

1. Notify the Department at (813) 632-7600 within twenty-four hours of observation of sinkhole development in the Phase I and/or Phase II surface water management systems. Reference Permit No. 29-0266058-002.