

**APPENDIX A**

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**FDEP AND USACE PERMITS**





# Florida Department of Environmental Protection

South District Office  
P.O. Box 2549  
Fort Myers, FL 33902-2549

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Mimi A. Drew  
Secretary

## **Permittee/Authorized Entity:**

City of Naples  
c/o A. William Moss, City Manager  
735 8<sup>th</sup> Street South  
Naples, Florida 34102, Collier County

East Naples Bay Dredging Project

## **Authorized Agent:**

PBS&J  
c/o Bryan D Flynn  
5300 West Cypress Street  
Tampa, Florida 33607

**Environmental Resource Permit  
State-owned Submerged Lands Authorization - Granted  
U.S. Army Corps of Engineers Authorization - Separate Corps  
Authorization Required**

Permit No.: 11-0295486-001

**Permit Issuance Date: December 30, 2010  
Permit Construction Phase Expiration Date: December 30, 2015**

# Consolidated Environmental Resource Permit and State-owned Submerged Lands Authorization

Permittee: City of Naples  
Permit No: 11-0295486-001

## AUTHORIZATIONS

### East Naples Bay Dredging Project

#### Project Description

The permittee is authorized to dredge existing manmade canals in the Golden Shores, Oyster Bay, and Royal Harbor sections of Naples Bay, encompassing approximately 28.64 acres, to a depth of -6 feet Mean Low Water. The dredging project shall remove approximately 40,900 cubic yards of material from previously dredged canals, to be deposited in an upland location to be dried and transported to the county landfill. A portion of the dredging impacts at the mouth of the canals will occur on state lands, to maintain access to the canals. Authorized activities are depicted on the attached exhibits.

Eighty (80) 8 1/2" x 11" permit drawings, as prepared by PBS&J., signed and sealed by Jeffery R. Tabar, P.E., dated October 11, 2010, are incorporated by reference and attached to this permit.

The project will impact approximately 0.05 acres of oyster beds and potentially impact 0.06 acres of seagrass habitat impacts (*Halophila decipiens*). To offset unavoidable impacts that will occur from these authorized activities, the permittee shall enhance shoreline habitat at three different locations within the Gordon River/Naples Bay by placing riprap to provide increased habitat for fish, crabs and oysters to help improve water quality in the waterbody. Seagrasses have not been present in the vicinity of the project have not been present since 2007 as a result of increased freshwater in the system, and therefore no additional mitigation will be required by this permit.

The project described above may be conducted only in 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

The activity is located on submerged lands owned by the State of Florida. It therefore also requires authorization, from the Board of Trustees of the Internal Improvement Trust Fund, pursuant to Article X, Section 11 of the Florida Constitution, and Sections 253.002 Florida Statutes (F.S.).

As staff to the Board of Trustees, the Department has determined that the activity qualifies for a Letter of Consent, as long as the work performed is located within the boundaries as described herein and is consistent with the terms and conditions herein.

#### 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 but not limited to local governments and homeowner's associations. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

In addition, you are advised that your project may require additional authorizations or permits from 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.

#### **PROJECT LOCATION**

The activities authorized by this Permit and state-owned submerged lands authorization are located in the man-made canals within Golden Shores, Oyster Bay and Royal Harbor and partially in East Naples Bay/Gordon River, Class II Waters, prohibited for shellfish harvesting, Sections 03, 10, 11, 14 and 15, Township 50 South, Range 25 East, Collier County.

The three shoreline enhancement areas are located:

- On the western shoreline of the Gordon River under the US-41 bridge;
- On the eastern shoreline of the Gordon River under the US-41 bridge; and
- Along the shoreline adjacent to the Auxiliary Coast Guard building.

## PERMIT STATE-OWNED SUBMERGED LANDS CONDITIONS

The activities described herein must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The General Consent 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 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 conditions and drawings prior to commencing the authorized activities. Failure to comply with these conditions, including any mitigation requirements, 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 and state-owned submerged lands authorization, as specifically described above.

### SPECIFIC CONDITIONS - PRIOR TO CONSTRUCTION

1. All required submittals, such as certifications, monitoring reports, notifications, etc., shall be submitted to the Florida Department of Environmental Protection, South District Office, Submerged Lands and Environmental Resource Permitting, P.O. Box 2549, Fort Myers, FL 33902-2549 ("South District Office"). **All submittals shall include the project name and indicated permit number when referring to this project.**

*Note: In the event of an emergency, the Permittee should contact the Department by calling (800) 320-0519. During normal business hours, the permittee should call (239) 344-5600.*

2. Any deviation from the specific permit conditions or permit drawings shall not be undertaken without modification of this permit and submittal of the appropriate processing fee.

3. If the approved permit drawings conflict with the specific conditions, then the specific conditions shall prevail.

4. Prior to commencement of construction the permittee shall coordinate with the affected boaters and post notices alerting the public of the any channel closure necessary during construction. The Permittee shall post signs no less than 7 days prior, in locations visible to boaters normally navigating in the project area. The Permittee shall also publish notices in the newspaper or other media that will assure notification

of affected boaters. No less than 7 days prior to construction, the Permittee shall submit a description of these notices, the media used, and locations, for Department review, modification as necessary, and approval no less than 60 days prior to construction.

5. **Prior to commencement of construction**, turbidity screens with weighted skirts that extend to the bottom shall be placed to contain any turbid waters generated from dredging/construction. The turbidity screens shall be maintained in functional condition, inspected daily, and shall remain in place for the duration of the project construction to ensure that turbidity levels outside the project construction area do not exceed the ambient water quality levels and do not contribute to impacts of adjacent wetlands or surface waters.

6. The following measures shall be taken by the Permittee whenever turbidity levels within waters of the State surrounding the project site, exceed State water quality standards established pursuant to Rule 62-302, F.A.C.:

- (a) immediately cease all work contributing to the water quality violation;
- (b) modify the work procedure(s) that were responsible for the violation,;
- (c) install more turbidity containment devices and repair any non-functioning turbidity containment devices; and
- (d) notify the DEP South District Office at 239-332-6975 within 12 hours of the time the violation is first detected.

7. The project shall comply with applicable State Water Quality Standards, namely: Rule 62-302.500, F.A.C. - Surface Waters: Minimum Criteria, General Criteria; Rule 62-302.530, F.A.C. - Table: Surface Water Quality Criteria, Class II Waters;

8. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, 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 permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, as well as the appropriate permitting agency office. 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.

## **SPECIFIC CONDITIONS - CONSTRUCTION ACTIVITIES**

9. All dredging shall be conducted in accordance with the locations and depths indicated on the attached permit drawings.

10. During the time of active dredging by the City of Naples, individual property owners within the canal system have the option to independently contract with the dredge contractor for dredging within the setback the City will observe from all the private docks and bulkheads. This additional dredging is authorized by this permit. These areas of possible dredging are shown on the attached sheets 28-32A, and the areas are labeled "Dredge Template (Private)". The permittee shall continue to be responsible for compliance with all conditions and requirements of the permit even if dredging is accomplished by individual homeowners in those areas specified above. The spoil from these areas shall be disposed of in the same sites as the spoil from the area dredged by the City. Any dredging conducted by individual property owners within the canal system must be conducted simultaneously with the authorized dredging project as performed by the City. Any dredging after the City has completed its dredging project will require separate authorization and will not be authorized by this permit.

11. Mechanical dredging and hydraulic dredging are authorized dredging methodologies for the proposed dredging. Blasting is not an authorized dredging methodology. Any rock to be removed shall be removed utilizing hydraulic hammer and/or a diamond tooth cutterhead and toothed bucket excavator mounted on a barge.

12. All spoil material shall be piped onto the upland disposal site to be dried and trucked to the landfill. The pipeline shall be anchored to the channel bottom within the navigation channel. Any pipeline that is not anchored to the channel bottom shall be clearly marked. The entire pipeline shall be adequately marked in accordance with United States Coast Guard requirements.

13. All spoil material from the permitted dredging shall be removed from the spoil containment area shown on the permit drawings at a rate so that the spoil containment area is never filled to capacity. No return water is permitted into waters of the State in a manner that exceeds state water quality standards. The discharge from the spoil site shall be monitored for turbidity as described in the monitoring section of this permit.

14. The mooring of construction barges and/or other vessels utilized during construction shall be clearly marked to address navigation, including nighttime lighting, if applicable.

#### **SPECIFIC CONDITIONS - MITIGATION**

15. **Prior to commencement of construction**, the permittee shall off-set the impacts to 0.06 acres of oysters through enhancement of shoreline based on the attached "Proposed Alternate Mitigation Summary," dated September 3, 2010.

16. Turbidity barriers shall be utilized and properly maintained during the permitted construction, and shall remain in place until any turbidity generated subsides.
17. A filter cloth underliner for the riprap shall be staked in place before installation of the riprap material.
18. The riprap shall consist only of natural boulders or clean concrete rubble, free of sediments, tar, metal rebar, and other deleterious materials, 12" to 16" in diameter to be placed at a 4:1 slope.

#### **SPECIFIC CONDITIONS - MANATEE**

19. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with, and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
20. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels shall follow routes of deep water whenever possible.
21. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers shall not impede manatee movement.
22. All on-site project personnel are responsible for observing water-related activities for the presence of manatees. All in-water operations, including vessels, shall be shutdown if a manatee comes within 50 feet of the operation. Activities shall not resume until every manatee has moved beyond the 50-foot radius of the project operation, or until 30 minutes has elapsed wherein a manatee has not reappeared within 50 feet of the operation. Animals shall not be herded away or harassed into leaving.
23. Any collision with or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-772-562-3909) for south Florida.



24. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Awareness signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used. One sign measuring at least 3 ft. by 4 ft. which reads *Caution: Manatee Area* must be posted. A second sign measuring at least 8 1/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shutdown of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. Please see the Florida Fish and Wildlife Conservation Commission website for information on how to obtain appropriate signs:

[http://www.myfwc.com/docs/WildlifeHabitats/Manatee\\_EducationalSign.pdf](http://www.myfwc.com/docs/WildlifeHabitats/Manatee_EducationalSign.pdf)

### **SPECIFIC CONDITIONS - MONITORING/REPORTING REQUIREMENTS**

25. **Once every four hours during all dredging operations, the permittee shall monitor turbidity levels within 5 feet of the turbidity curtain surrounding the active dredge area. The monitoring shall continue during dredging operations until project completion.** Compliance samples shall be taken at one sample site within the densest portion of any visible turbidity plume within 5 feet outside of the turbidity curtains. Ambient samples shall be taken up-current at mid-depth and at no time shall the ambient sample be taken within an apparent turbidity plume. Sampling shall commence prior to, but no more than 24 hours before initiation of any dredging activities. Monitoring for turbidity shall be conducted for the duration of the project.

26. Compliance samples shall be collected from surface, mid-depth and one foot above bottom. Mid-depth samples are sufficient in water that is less than five feet deep. Samples shall be collected with a Kemmerer, Van Dorn or a similar sampler that is designed to collect in situ water samples. Samples shall be analyzed immediately after collection with a turbidimeter that produces results in Nephelometric measurements. The field sample results shall be accurately recorded to the precision capabilities (decimal place) of the instrument. Field turbidimeter results shall be rounded to the next whole number (ex. 15.23 NTUs shall be recorded; however the results shall be interpreted as 16.00 NTUs). If monitoring reveals turbidity levels greater than background levels, the permittee shall cease all work pursuant to Specific Condition 30.

27. Measurements must be acquired in adherence to the Department's Standard Operating Procedure (SOP) for field turbidity, available at the website: [www.dep.state.fl.us/labs/qa/sops.htm](http://www.dep.state.fl.us/labs/qa/sops.htm). More specifically, the instruments used to measure turbidity shall be fully calibrated within one month prior to commencement of the project, and at least once a month thereafter during the project. Calibration shall be verified each morning prior to use, and after each time the instrument is turned on, using a turbidity "standard" that is different from the one used during calibration.

Calibration procedures shall be recorded in a permanent logbook, and copies must be submitted with the data.

28. Turbidity monitoring reports shall be submitted to the Department each Monday following project commencement **until dredging completion**. When submitting this information to the Department, please include, at the top of each page or as a cover page to the submittal: "This information is being provided in partial fulfillment of the monitoring requirements in Permit No. 11-0295486-001-EI04." **Monitoring reports shall contain the following information:**

- a. Permit number;
- b. Dates of sampling and analysis;
- c. A statement describing the methods used in collection, handling, storage, and analysis of the samples;
- d. A map indicating the sampling locations; and
- e. Turbidity data for both a compliance sample and an ambient (background) sample for each monitoring event, referenced in Nephelometric Turbidity Units (NTUs).

Failure to submit reports in a timely manner constitutes a violation of the permit and may be grounds for revocation.

29. Monitoring reports shall also include the following information for each sample taken:

- a. Time of day sample was taken;
- b. Depth of water body;
- c. Depth of sample;
- d. Tidal stage and direction of flow; and
- e. Antecedent weather conditions, including wind direction and velocity.

30. If monitoring reveals turbidity levels at the compliance sample location(s) appear to violate the State Water quality standards (i.e., compliance sample(s) exceed background levels), the following measures shall be taken by the permittee:

- a. Immediately cease all work contributing to the water quality violation. Work which may contribute to the violation shall not resume until corrective measures have been taken and turbidity levels have returned to acceptable levels compliant with 62-302, F.A.C.;
- b. Modify the work procedures that were responsible for the violation, install more turbidity containment devices, and repair any non-functioning turbidity containment devices;
- c. Increase monitoring frequency to every 2 hours until turbidity levels are within acceptable limits. Interim samples collected following the violation(s) shall be collected in the same manner and locations as the routine monitoring.

Operations may not resume until the water quality standard for turbidity has returned to ambient levels; and

- d. The violation(s) shall be immediately reported to the Department. The report shall include the description of the corrective actions being taken or proposed to be taken. If violation(s) are noted after normal business hours, on holidays, or on weekends, the report shall be made to the Department as soon as normal business hours resume. A copy of the monitoring data sheets, which indicate violation(s), shall be forwarded immediately to the Department.

Failure to report violation(s) or to follow correct procedures before resuming work shall constitute grounds for permit revocation and may subject the permittee to formal enforcement action.

### **SPECIFIC CONDITIONS - POST CONSTRUCTION**

31. **Within 30 days of completion of the permitted dredging activities**, the permittee shall submit to the Department a detailed report describing the completed construction and including as-built drawings showing all structures and bathymetry of the project area. The submitted drawings shall be plan and cross-sectional view drawings, fully scaled and dimensioned, signed and sealed by a registered professional engineer, showing the entire project area. These drawings shall clearly indicate the deviations from the permit drawings attached to this permit. If the as-built drawings show a significant over-dredge that, as determined by the Department, could potentially result in adverse effects to water quality, the permittee shall submit a backfilling plan acceptable to the Department to level the bottom surface by backfilling with clean fill material free of deleterious substances to the authorized design depth. The Department may require follow-up as-built drawings or bathymetry be submitted after any required backfilling activities. Any identified over-dredging shall not be considered corrected until a written compliance statement has been obtained from the Department.

### **GENERAL CONDITIONS:**

1. All activities authorized by this permit 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 and a violation of Part IV of Chapter 373, (F.S.).
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 the 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 pollution control to prevent violations 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 (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 water-body 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. All practices shall be in accordance with the guidelines and specifications described in Chapter Six of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), unless a project-specific erosion and sediment control plan is approved as part of the permit. 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. The permittee shall notify the Department of the anticipated construction start date within thirty (30) days of the date that this permit is issued. **At least forty-eight (48) hours prior** to commencement of the activity authorized by this permit, the permittee shall submit to the Department an "Environmental Resource Permit Construction Commencement" notice (Form No. 62-343.900(3), Florida Administrative Code (F.A.C.)) indicating the actual start date and expected completion date.

5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the Department on an annual basis utilizing an "Annual Status Report Form" (Form No. 62-343.900(4), F.A.C.). Status Report Forms shall be submitted the following June of each year.

6. **Within thirty (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 supplied "Environmental Resource Permit As-Built Certification by a Registered Professional" (Form No. 62-343.900(5), F.A.C.). The Statement of completion and certification shall be based on on-site observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the Department that the system is ready for inspection. 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 note. Both the original and revised specifications must be clearly shown. The plans must be

clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor.

7. The operation phase of this permit shall not become effective; until the permittee has complied with the requirements of condition number six (6) above, has submitted a **"Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase" (Form 62-343.900(7), F.A.C.)**; the Department determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the Department in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications Within the South Florida Water Management District – August 1995, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the Department, the permittee shall initiate transfer of permit to the approved responsible operation entity if different from the permittee. Until the permit is transferred pursuant to Rule 62-343.110(1) (d), F.A.C., the permittee shall be liable for compliance with the terms of the permit.

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

9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the Department along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications Within the South Florida Water Management District – August 1995, prior to lot or unit sales or prior to lot or unit sales or prior to the completion of the system, whichever occurs first. Other documents concerning the establishment and authority of the operation entity must be filed with the Secretary of State where appropriate. For those systems which are proposed to be maintained by the county or municipal entities, final operation and maintenance documents must be received by the Department when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the Department in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.
11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C.
12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of 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 authorization from the Board of Trustees prior to commencing activity on sovereignty lands or other state owned lands.
13. The permittee is advised that the rules of the South Florida Water Management District require the permittee to obtain a water use permit from the South Florida Water management District prior to construction dewatering, unless the work qualifies for a general permit pursuant to Rule 40E-20.302(4), F.A.C., also known as the "No Notice" rule.
14. The permittee shall hold and save the Department harmless from any and all damages, claims or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by this permit.
15. 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.
16. The permittee shall notify the Department in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rule 62-343.130, F.A.C. The permittee transferring the permit shall remain liable for corrective actions that may be

required as a result of any violations prior to the sale, conveyance or other transfer of the system.

17. Upon reasonable notice to the permittee, Department authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate Department office.

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

### **GENERAL CONSENT CONDITIONS**

#### Chapter 18-21.004(7), F.A.C., General Conditions for Authorizations:

1. Authorizations are valid only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use shall constitute a violation. Violation of the authorization shall result in suspension or revocation of the grantee's use of the sovereignty submerged land unless cured to the satisfaction of the Board.
2. Authorizations convey no title to sovereignty submerged land or water column, nor do they constitute recognition or acknowledgment of any other person's title to such land or water.
3. Authorizations may be modified, suspended or revoked in accordance with their terms or the remedies provided in Sections 253.04 and 258.46, F.S., or Chapter 18-14, F.A.C.
4. Structures or activities shall be constructed and used to avoid or minimize adverse impacts to sovereignty submerged lands and resources.
5. Construction, use, or operation of the structure or activity shall not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.
6. Structures or activities shall not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity shall be modified in accordance with the court's decision.

7. Structures or activities shall not create a navigational hazard.
8. Structures shall be maintained in a functional condition and shall be repaired or removed if they become dilapidated to such an extent that they are no longer functional. This shall not be construed to prohibit the repair or replacement subject to the provisions of Rule 18-21.005, F.A.C., within one year, of a structure damaged in a discrete event such as a storm, flood, accident, or fire.
9. Structures or activities shall be constructed, operated, and maintained solely for water dependent purposes, or for non-water dependent activities authorized under paragraph 18-21.004(1)(g), F.A.C., or any other applicable law.

## **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 (F.S.) 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), Florida Administrative Code (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 14 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 14 days of publication of the notice or within 14 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 14 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; and

(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action;

(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.

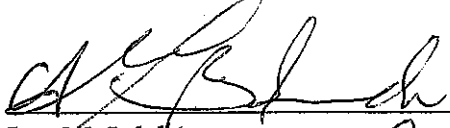
This permit constitutes an order of the Department. The applicant has the right to seek judicial review of the order under Section 120.68, F.S., by the filing of a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 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

[This portion intentionally left blank]

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 Lee County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
\_\_\_\_\_  
Jon M. Iglehart  
District Director  
South District Office

JMI/AP/ap

**Attachments:**

- Project Drawings and Design Specs., 80 pages
- Mitigation Plan, 9 pages
- Commencement notice /62-343.900(3)
- Annual status report/62-343.900(4)
- As-built certification/62-343.900(5)
- Transfer construction to operation phase/ 62-343.900(7)

**Copies furnished to:**

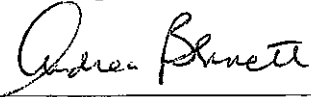
- U.S. Army Corps of Engineers, Log # 11765
- FWC, Imperiled Species Management Section
- Collier County Property Appraiser
- U.S. Coast Guard
- Department of Community Affairs
- Department of Historical Resources
- PBS&J, c/o Bryan D. Flynn
- File

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this permit and authorization to use sovereignty submerged lands, including all copies, were mailed before the close of business on December 30, 2010, to the above listed persons.

**FILING AND ACKNOWLEDGMENT**

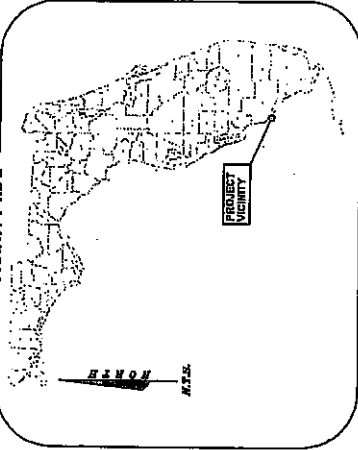
FILED, on this date, under 120.52(7) of the Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

 12/30/10  
\_\_\_\_\_  
Clerk Date

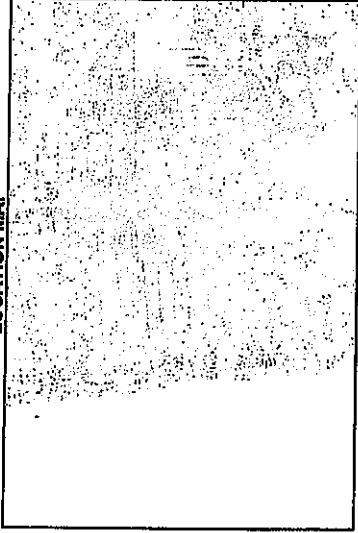
# EAST NAPLES BAY DREDGING PROJECT PERMIT PLANS AND SPECIFICATIONS

COLLIER COUNTY, FLORIDA

VICINITY MAP



LOCATION MAP



INDEX OF DRAWINGS

- OVERALL PROJECT SHEET
- SMALL PROJECT AREA
- PLAN VIEW WITH DRAINAGE
- PLAN VIEW WITH SEWER MAP
- PLAN VIEW WITH SEWER AND CORRELATIONS
- SUBMERGED PARADOX VEGETATION ASSESSMENT MAY 2007
- SUBMERGED PARADOX VEGETATION ASSESSMENT ON MAY 2007 ASSESSMENT
- SUBMERGED PARADOX VEGETATION ASSESSMENT AUGUST 2007
- PROPOSED DREDGE TEMPLATE DESIGN AND ROCK REMOVAL
- TYPICAL CROSS SECTION
- DREDGE AND REMEDIATION SITES
- DREDGE AND REMEDIATION SITES
- DREDGE PRELIMINARY CONTROL
- EROSION CONTROL DETAILS
- CONSTRUCTION NOTES

SCALE: 1" = 5000'

## CONTROL TABULATION

POINT	MAD 82/50 SPCS	0901 US FEET	NAD 83	EASTING	ELEVATION	AGENCY	DESCRIPTION	STAMPING
408				14.79	14.79	NIS	DISK SET IN FACE OF WALL	L 408 1992
BRT 8 4B				5.49	5.49	NIS	DISK IN CONCRETE SEAWALL	BRT 8 4B
CEL 80				5.40	5.40	NIS	DISK IN CONCRETE PAB	CEL 80 23N 1996
V 250				5.40	5.40	NIS	DISK IN CONCRETE PAB	V 250 1995
878 5110 C TIDAL	654861.37	393015.92		8.35	8.35	NIS	CONCRETE MONUMENT	878 5110 0824 1992
809S 134 5924	644767.77	411192.76		5.50	5.50	NIS	CONCRETE MONUMENT	809S 134 0824 1992
101 C	650188.46	403506.67		7.80	7.80	NIS	CONCRETE MONUMENT	101 C 1979
102	652034.65	403529.05		3.50	3.50	NIS	CONCRETE MONUMENT	102 0103
103	652226.91	401745.24		3.50	3.50	NIS	CONCRETE MONUMENT	103 0103
104	650540.62	395406.39		4.40	4.40	NIS	CONCRETE MONUMENT	104 0103

PREPARED FOR:  
**CITY OF NAPLES**

PREPARED BY:



CONSULTING ENGINEERS  
5300 WEST CYPRESS STREET, SUITE 200  
TAMPA, FLORIDA 33607-1066  
(800) 477-7275 (VOICED)  
(813) 286-1207 (FAX)

**MORGAN & ENLUND, INC.**

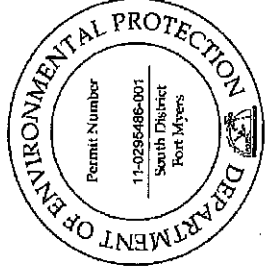
PROFESSIONAL SURVEY CONSULTANTS



1800 E. 9TH AVENUE  
SUITE 200  
TAMPA, FLORIDA 33605  
FOR 1995 SURVEYING  
THE STATE OF FLORIDA

PROJECT LOCATION

THE PROJECT AREA IS LOCATED AROUND ALONG NAPLES BAY IN COLLIER COUNTY, FLORIDA.



I hereby certify that this design of this project, as prepared under my professional seal and signature, complies with the requirements of the Florida Department of Environmental Protection.

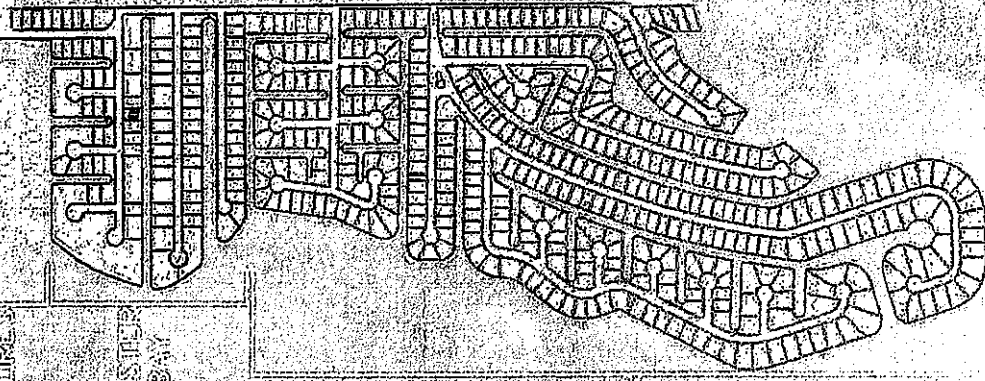
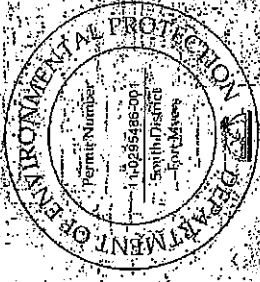
FOR THE ENGINEER  
DATE: 10/11/07  
11-0295486-001  
South District  
Port Myers

### GENERAL NOTES

- THE PURPOSE OF THIS PROJECT IS TO DREDGE APPROXIMATELY 1,000,000 CUBIC YARDS OF SEDIMENT AND 2,168 CUBIC YARDS OF ROCK FROM EAST NAPLES BAY. THESE VOLUMES ARE BASED ON REDUCING TO 40' BLM (44' MHW), THE VOLUMES DO NOT ACCOUNT FOR SPILL, OVERDREDGE, ETC.
- DREDGING ACTIVITY WILL BE CONFINED TO DESIGNATED AREAS ONLY AND IN ACCORDANCE WITH THE PLAN AND SPECIFICATIONS.
- DREDGING ACTIVITY WILL OBSERVE A 10' BUFFER FROM ALL DOORS, NATURAL RESOURCES, SEAWALLS, AND STRUCTURES.
- CONTRACTOR WILL STRICTLY COMPLY WITH ALL MANATEE REGULATIONS.
- CONTRACTOR SHALL MAINTAIN EROSION CONTROL AND TURBIDITY CONTROL MEASURES THROUGHOUT THE PROJECT.
- TOPOGRAPHIC AND BATHYMETRIC DATA PROVIDED BY MORGAN & ENLUND, INC. DATED MAY 1, 2007.
- GRID COORDINATES ARE IN FEET, AND ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83).
- ELEVATIONS SHOWN ARE IN FEET, AND ARE REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
- DEATH CREEK WATER (DCA) IS 0.7' HIGHER THAN NATIONAL GEODETIC VERTICAL DATUM (NGVD 29). CONTRACTOR SHALL MAINTAIN THIS DIFFERENCE THROUGHOUT THE PROJECT. THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) LAND ACQUISITION INFORMATION SYSTEMS (LAIS) WEBSITE.
- ALL SURVEY INFORMATION DEPICTED REPRESENTS THE EXISTING CONDITIONS AT THE TIME OF THE SURVEY.
- ALL AERIAL PHOTOGRAPHS WERE PROVIDED BY COLLIER COUNTY PROPERTY APPRAISER AND WERE TAKEN JANUARY 2007.

**RECEIVED**  
OCT 11 2007

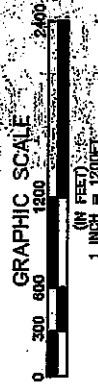
DEP South District



GOLDEN SHORES

ONSIDER BAY

REVA



**RECEIVED**

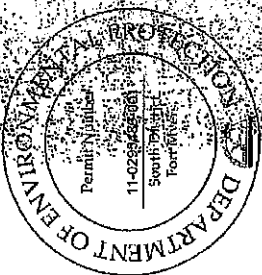
CITY OF NAPLES  
OCT 11 2007  
WATER & WASTEWATER SERVICES BAY  
ZONING PROJECT

D.E.P. South District

6300 Red Opal Sw., Suite 200  
Naples, Florida 34107  
Ph. (813) 282-7715



DESIGNED BY	DATE
DRAWN BY	DATE
PROJECT NO.	DATE
CHECKED BY	DATE
APPROVED BY	DATE
SCALE	
SHEET NO.	42/48
TITLE	GENERAL REQUIREMENTS
PROJECT AREA	



SHEET 4,  
11, 18, 28

SHEET 5,  
12, 19, 29

SHEET 6,  
13, 20, 30

SHEET 7,  
14, 21, 31

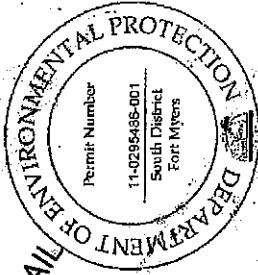
SHEET 8, SHEET 9,  
15, 22, 32, 16, 23, 33

SHEET 10,  
17, 24, 34

**RECEIVED**  
OCT 11 2011

GRAPHIC SCALE  
0 10 20 30 40 50  
FEET  
0 10 20 30 40 50  
METERS

2301 P.O. Center, Suite 200 Ft. Lauderdale, FL 33309 PH: (954) 352-7225	CITY OF MAPLES EAST MAPLES BAY DREDGING PROJECT	SHEET BREAKDOWN PAGE BREAKDOWN	4/3/07 ORIGINAL RECORDS	45 46 47 48 49 50	SHEET 3 OF 45
	RECEIVED OCT 11 2011 D.E.P. South District	SHEET BREAKDOWN PAGE BREAKDOWN	4/3/07 ORIGINAL RECORDS	45 46 47 48 49 50	SHEET 3 OF 45



MIAMI TRAIL

SANDPIPER STREET

CURLEW AVENUE

OSPREY AVENUE

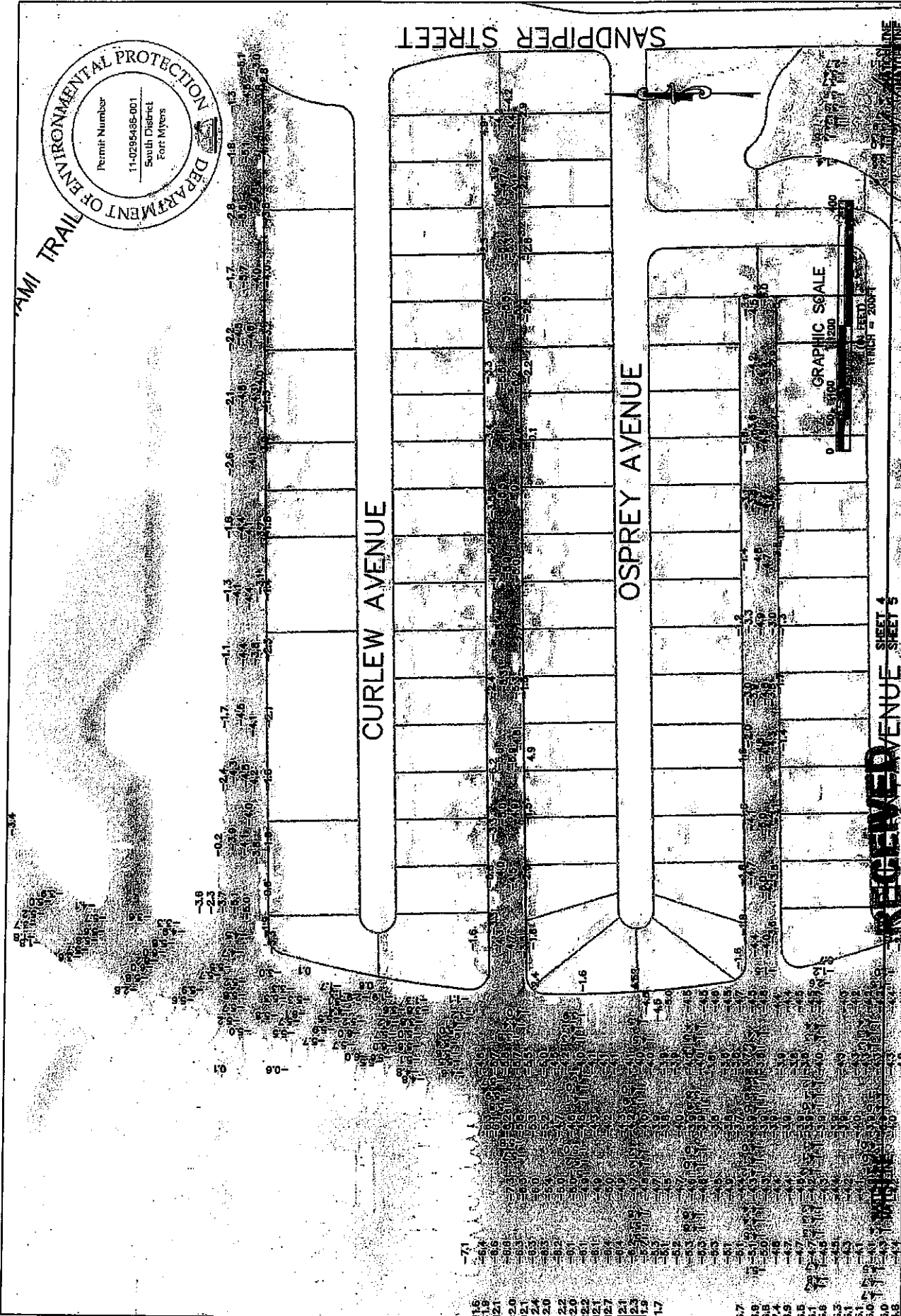
RECEIVED  
CITY OF NAPLES BAY  
DREDGING PROJECT  
GOLDEN SHORES

JOB NO. 04328818	DATE 4/26/00
DATE 4/26/00	SCALE 1" = 200'
PROJECT PLAN VIEW DATA POINT PLOT	
BATHYMETRIC SURVEY	
GOLDEN SHORES	
CITY OF NAPLES BAY	
DREDGING PROJECT	
RECEIVED	
CITY OF NAPLES BAY	
DREDGING PROJECT	
GOLDEN SHORES	
DEP SOUTH DISTRICT	

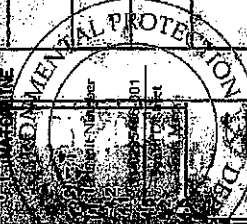


3800 West Orange Street, Suite 200  
Naples, Florida 34107  
P. (813) 435-7225

SHEET 4 OF 45



PELICAN AVENUE SHEET 4  
SHEET 5



CHERRY STONE CT

CLAM CT

LITTLE NECK CT

BLUE POINT AVENUE

CHESAPEAKE AVENUE



MATCHLINE  
NORTH

MATCHLINE  
EAST

MATCHLINE  
SOUTH

MATCHLINE  
WEST

JEWEL BOX AVENUE

OYSTER BAY

BATHYMETRIC SURVEY

DATE: 11/11/2010

CITY OF NAPLES  
DREDGING PROJECT

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

DATE: 4/2/09

PROJECT NO. 1001

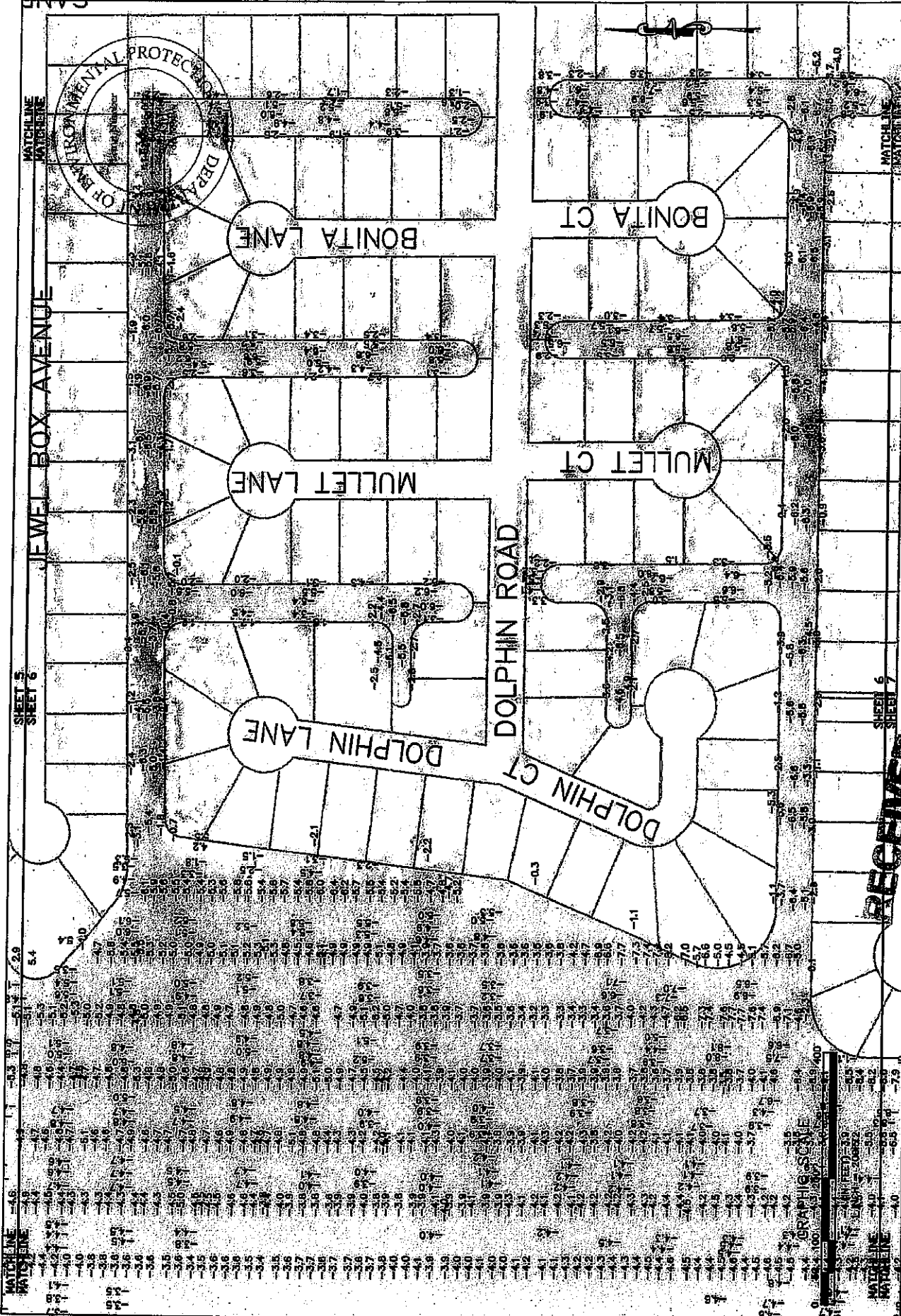
SHEET 5 OF 45



330 Red Opener Blvd., Suite 200  
Tampa, Florida 33607  
Ph. (813) 282-1725

D.F.D. South District





**RECEIVED**  
 11/1/2011

**PBS**  
 1000 West Chester Road, Suite 200  
 York, PA 17403  
 PA (717) 765-3725

**CLIENT:** CITY OF MAPLETON, WEST MAPLES BAY  
**PROJECT:** DREDGING PROJECT  
**LOCATION:** ROYAL HARBOR

**DATE:** 4/1/09  
**GENERAL NOTES:**

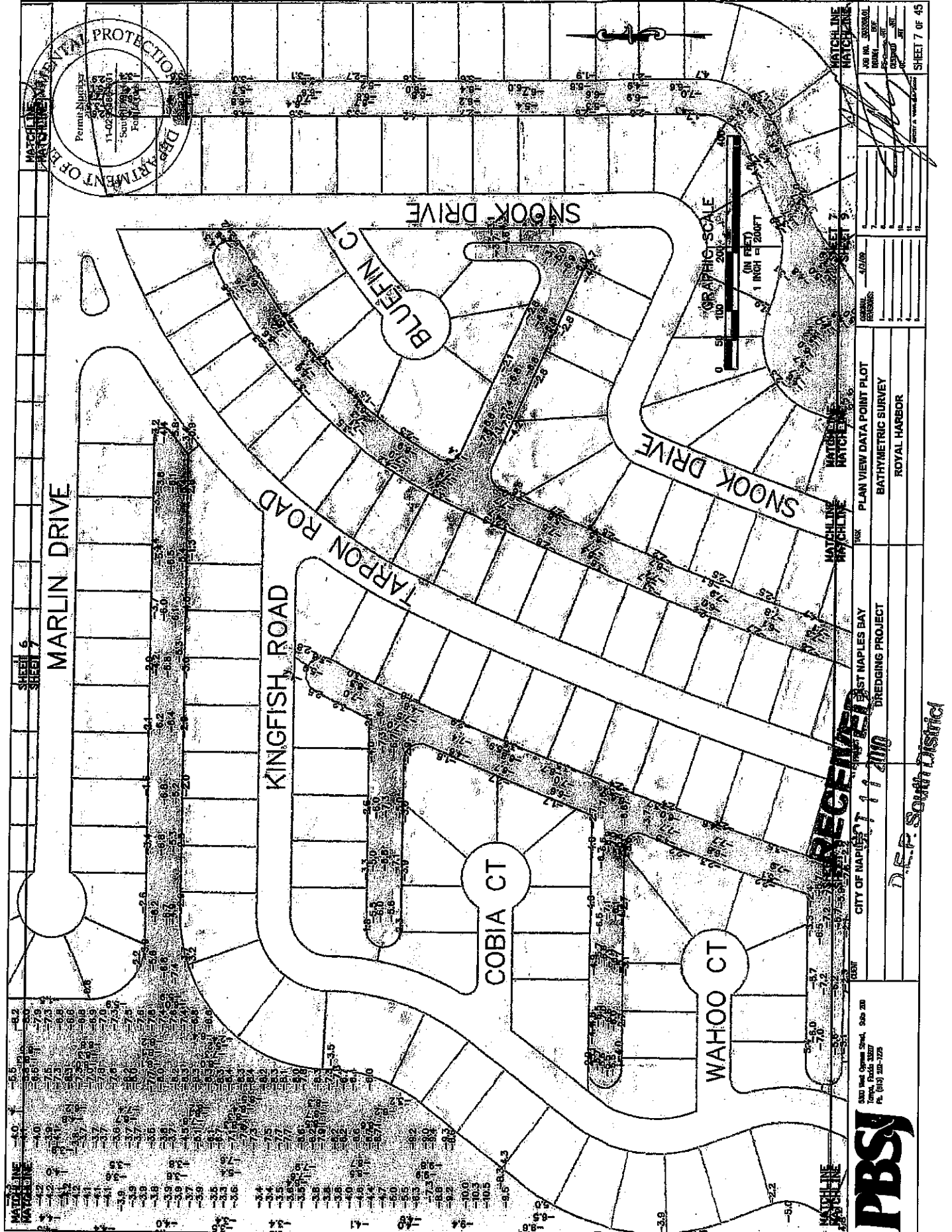
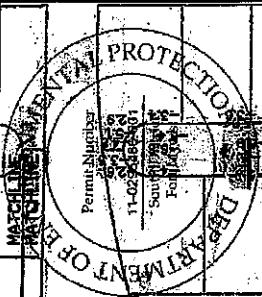
**DESIGNED BY:** \_\_\_\_\_  
**CHECKED BY:** \_\_\_\_\_  
**DATE:** \_\_\_\_\_

**DEPARTMENT OF ENVIRONMENTAL PROTECTION**

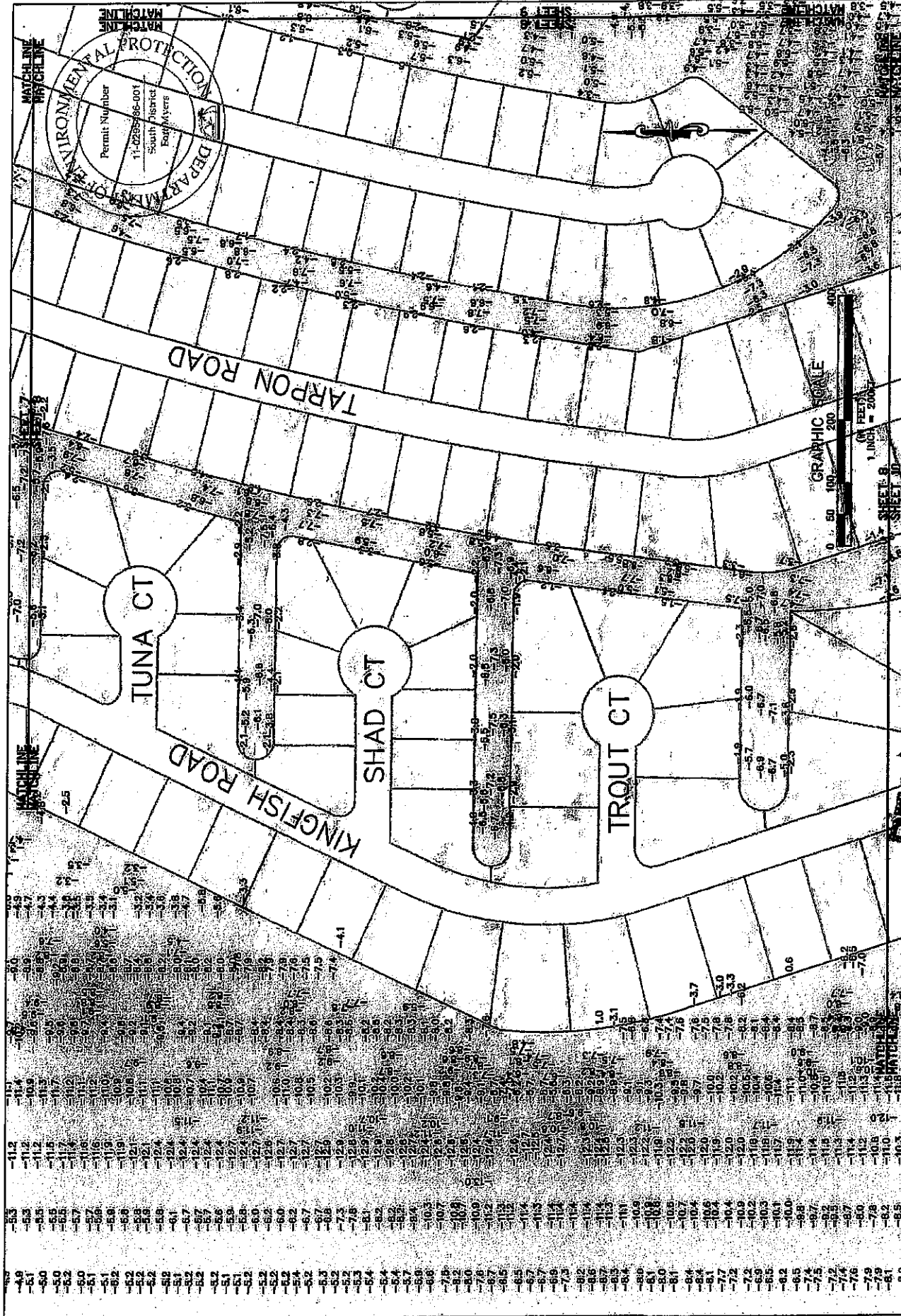
**PROJECT:** PLAN VIEW DATA POINT PLOT  
**TITLE:** BATHYMETRIC SURVEY  
**LOCATION:** ROYAL HARBOR

**DATE:** 4/1/09  
**SCALE:** \_\_\_\_\_  
**BY:** \_\_\_\_\_  
**CHECKED BY:** \_\_\_\_\_  
**DATE:** \_\_\_\_\_

**SHEET 6 OF 45**



<b>RECEIVED</b> CITY OF NAPLES 11/1/00 DREDGING PROJECT		SHEET 7 OF 45
3400 West Orange Street, Suite 200 Naples, Florida 34107 P. (813) 281-1225	PROJECT: BATHYMETRIC SURVEY LOCATION: WEST NAPLES BAY	JOB NO.: 9803000 DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: 4/2/00
<b>PBS&amp;J</b>	D.E.P. South District	MATCHLINE SHEET 9 MATCHLINE SHEET 7 MATCHLINE SHEET 5 MATCHLINE SHEET 3

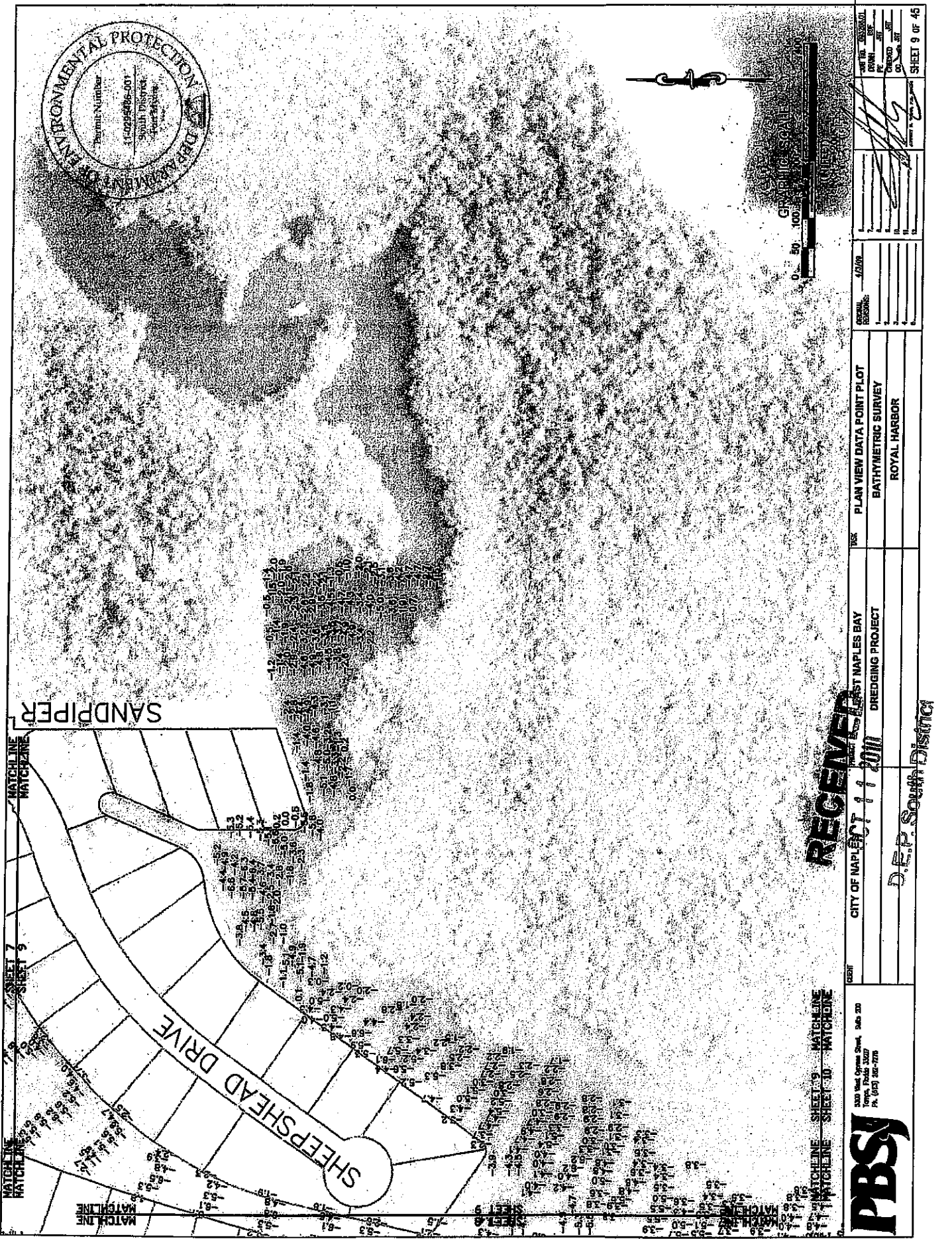
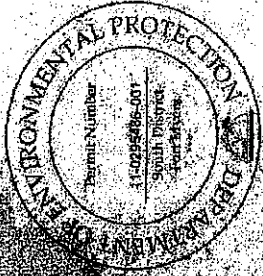


NO.	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																									
DEPTH	-5.3	-5.1	-5.0	-5.0	-5.1	-5.2	-5.2	-5.3	-5.3	-5.4	-5.4	-5.5	-5.5	-5.6	-5.6	-5.7	-5.7	-5.8	-5.8	-5.9	-5.9	-6.0	-6.0	-6.1	-6.1	-6.2	-6.2	-6.3	-6.3	-6.4	-6.4	-6.5	-6.5	-6.6	-6.6	-6.7	-6.7	-6.8	-6.8	-6.9	-6.9	-7.0	-7.0	-7.1	-7.1	-7.2	-7.2	-7.3	-7.3	-7.4	-7.4	-7.5	-7.5	-7.6	-7.6	-7.7	-7.7	-7.8	-7.8	-7.9	-7.9	-8.0	-8.0	-8.1	-8.1	-8.2	-8.2	-8.3	-8.3	-8.4	-8.4	-8.5	-8.5	-8.6	-8.6	-8.7	-8.7	-8.8	-8.8	-8.9	-8.9	-9.0	-9.0	-9.1	-9.1	-9.2	-9.2	-9.3	-9.3	-9.4	-9.4	-9.5	-9.5

**PBS**

500 East Cypress Street, Suite 200  
Tampa, Florida 33607  
Ph. (813) 255-7575

D.E.P. South District



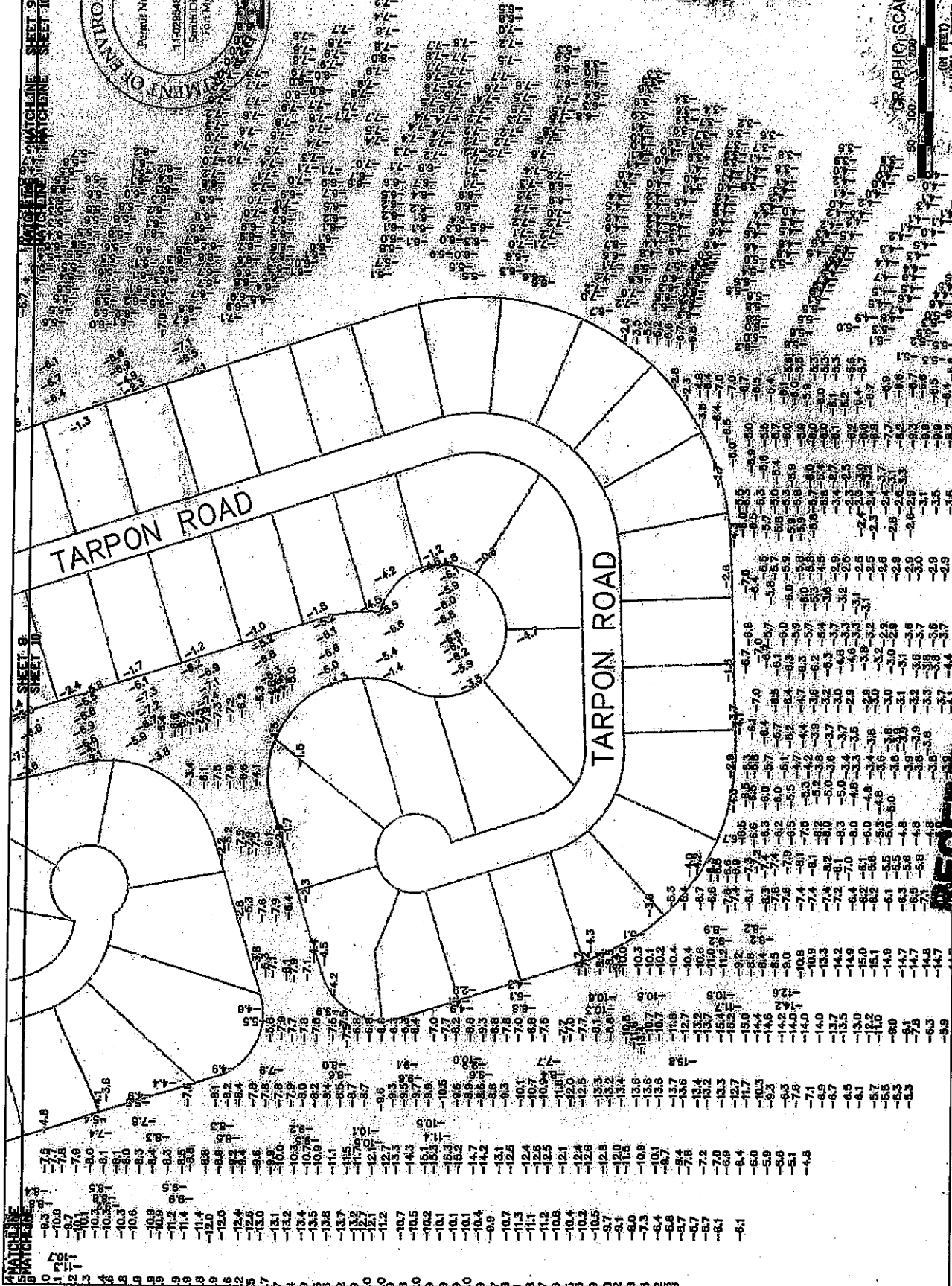
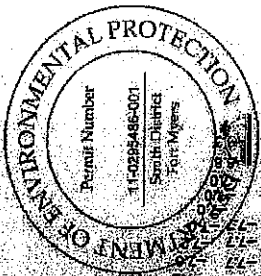
**RECEIVED**  
 CITY OF MAPLESTOWN  
 DREDGING PROJECT  
 D.E.P. South District

330 West Cypress Street, Suite 210  
 Terra, PA 15153  
 Ph. (412) 382-2770

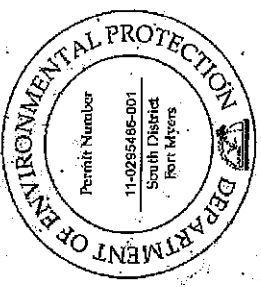


DATE	11/11/2011
PROJECT	PLAN VIEW DATA POINT PLOT
CLIENT	BATHYMETRIC SURVEY
LOCATION	ROYAL HARBOR
DRAWN BY	
CHECKED BY	
DATE	
SCALE	AS SHOWN
SHEET	9 OF 45

MATCHLINE SHEET 9 MATCHLINE SHEET 10 MATCHLINE SHEET 11 MATCHLINE SHEET 12 MATCHLINE SHEET 13 MATCHLINE SHEET 14 MATCHLINE SHEET 15 MATCHLINE SHEET 16 MATCHLINE SHEET 17 MATCHLINE SHEET 18 MATCHLINE SHEET 19 MATCHLINE SHEET 20 MATCHLINE SHEET 21 MATCHLINE SHEET 22 MATCHLINE SHEET 23 MATCHLINE SHEET 24 MATCHLINE SHEET 25 MATCHLINE SHEET 26 MATCHLINE SHEET 27 MATCHLINE SHEET 28 MATCHLINE SHEET 29 MATCHLINE SHEET 30 MATCHLINE SHEET 31 MATCHLINE SHEET 32 MATCHLINE SHEET 33 MATCHLINE SHEET 34 MATCHLINE SHEET 35 MATCHLINE SHEET 36 MATCHLINE SHEET 37 MATCHLINE SHEET 38 MATCHLINE SHEET 39 MATCHLINE SHEET 40 MATCHLINE SHEET 41 MATCHLINE SHEET 42 MATCHLINE SHEET 43 MATCHLINE SHEET 44 MATCHLINE SHEET 45



<b>PBSJ</b> 500 West Cypress Street, Suite 200 Tampa, Florida 33607 PH (813) 287-7200	CITY OF NAPLES BAY EAST NAPLES BAY DREDGING PROJECT	PLAN VIEW DATA POINT PLOT BATHYMETRIC SURVEY ROYAL HARBOR	SHEET NO. 45 TOTAL SHEETS 45 DATE 06/06/00 DRAWN BY [Signature] CHECKED BY [Signature] APPROVED BY [Signature]
	RECEIVED OCT 11 2010 D.E.P. South District	SHEET 10 OF 45	GRAPHIC SCALE (IN FEET) 0 50 100 200 400 1 INCH = 20 FEET



TAMI TRAIL

SANDPIPER STREET

CURLEW AVENUE

OSPREY AVENUE



**RECEIVED**  
**FILED**  
 CITY OF NAPLES / 2/10/11

3300 East Cypress Street, Suite 200  
 Naples, FL 34103-2827  
 (813) 262-7274



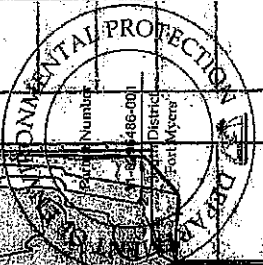
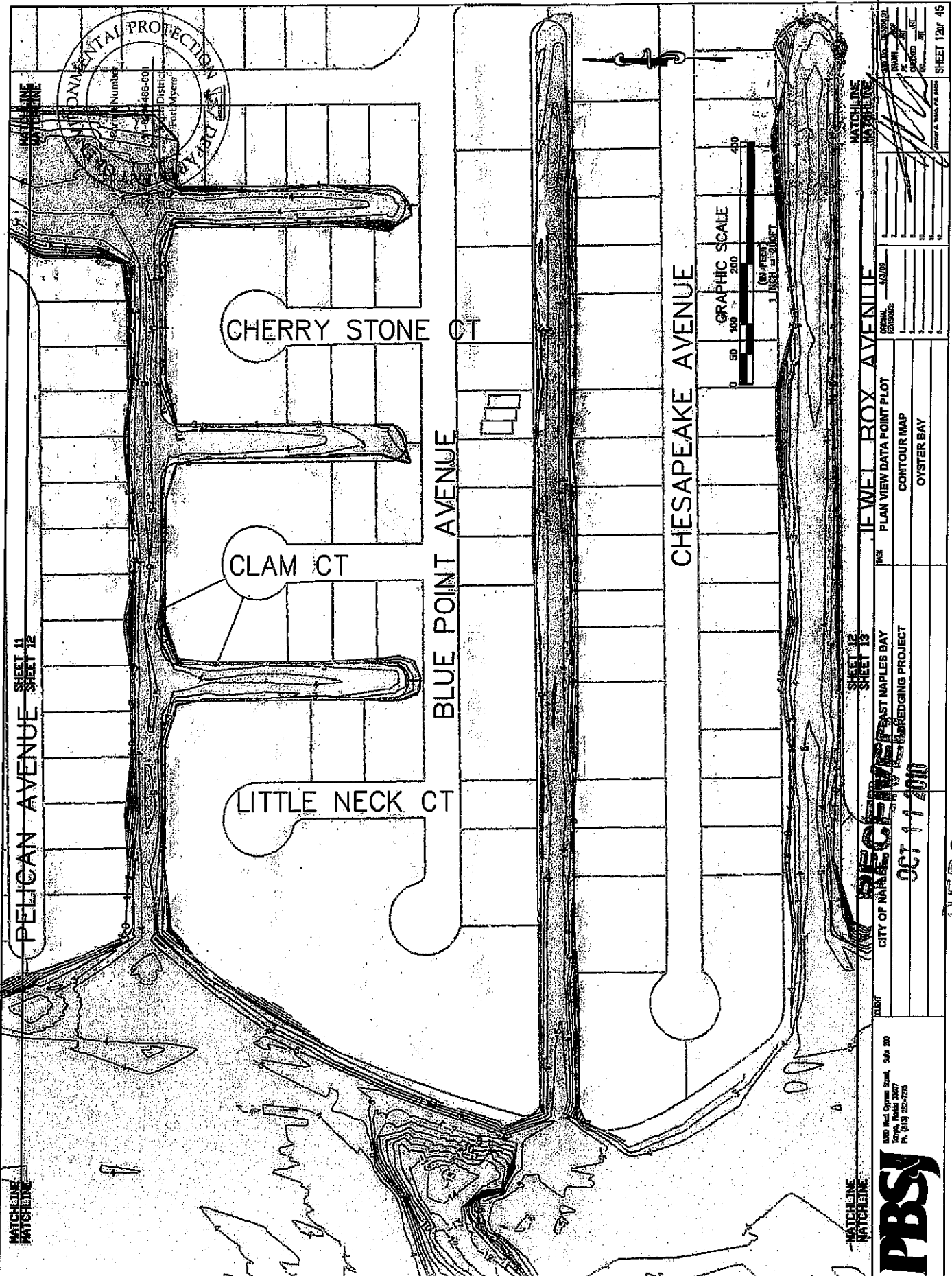
DEP. South District

EAST NAPLES BAY  
 DREDGING PROJECT

PLAN VIEW DATA POINT PLOT  
 CONTOUR MAP  
 GOLDEN SHORES

DATE: 03/09

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE
APP. NO. (OPTIONAL)	



PELICAN AVENUE SHEET 11 SHEET 12

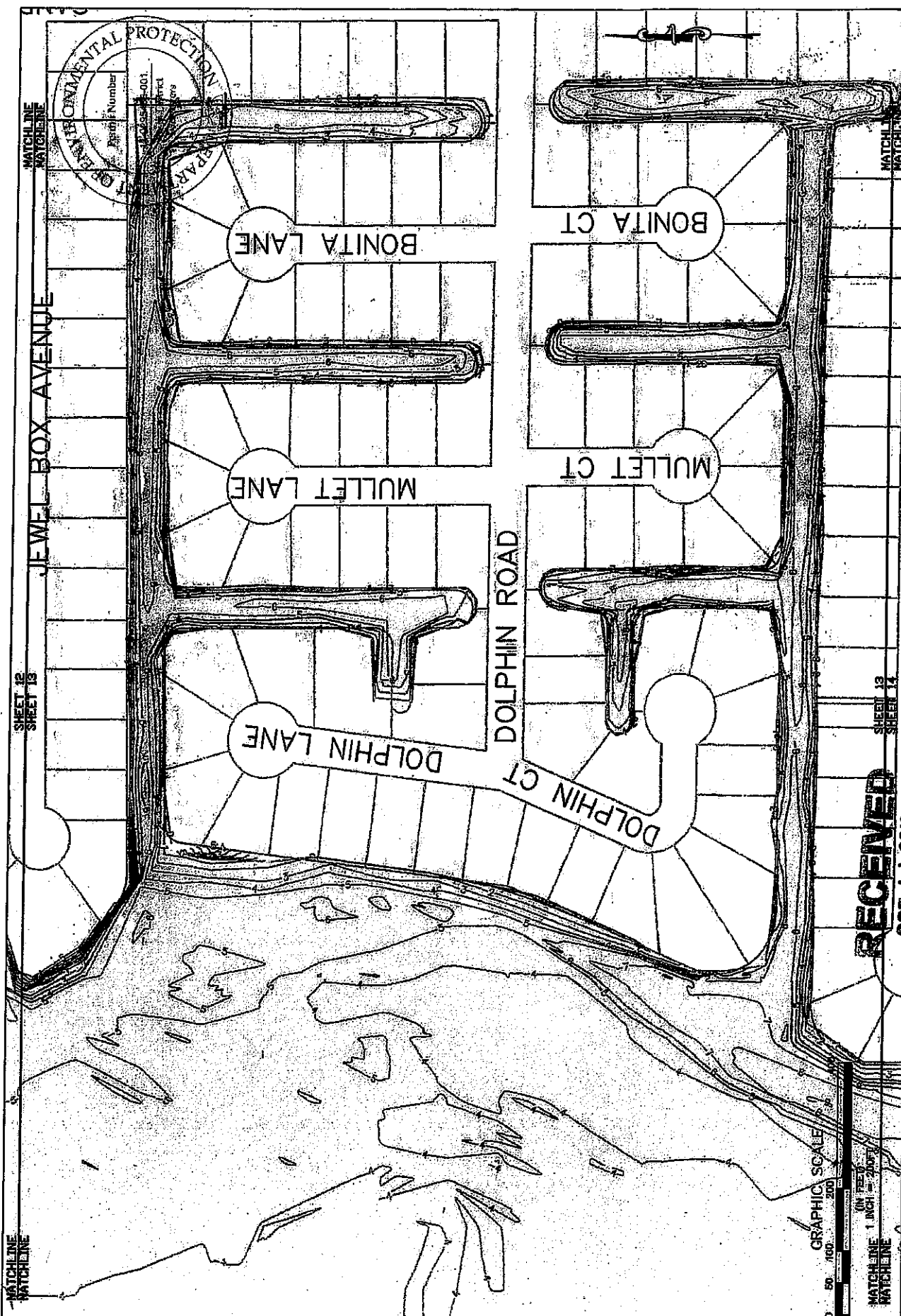
SHEET 12 SHEET 13

<b>RECEIVED</b> CITY OF NAPLES EAST MAPLES BAY FLOOD MITIGATION PROJECT OCT 11 2011		PLAN VIEW DATA POINT PLOT CONTOUR MAP OYSTER BAY	DATE: 10/11/11 DRAWN BY: [Signature] CHECKED BY: [Signature] PROJECT NO.: [Blank] SHEET 12 OF 45
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3300 West Orange Ave., Suite 200  
 Naples, Florida 34107  
 PH 813 282-9100



D.E.P. South District

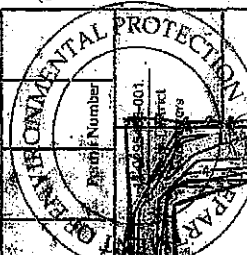


**RECEIVED**  
 CITY OF NAPLES 11/20/07  
 EAST NAPLES BAY  
 DREDGING PROJECT

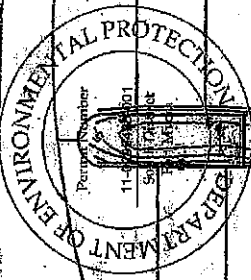
PROJECT: PLAN VIEW DATA POINT PLOT  
 DRAWING: CONTOUR MAP  
 LOCATION: ROYAL HARBOR

DATE: 7/2/06  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 DESIGNED BY: [Signature]  
 SCALE: AS SHOWN  
 SHEET 13 OF 45

**PBS&J**  
 1300 Park Orange Blvd., Suite 300  
 Naples, Florida 34107  
 Ph. (813) 252-7270







MATCHLINE  
MATCHLINE

SHEET 13  
SHEET 14

MARLIN DRIVE

KINGFISH ROAD

TARPON ROAD

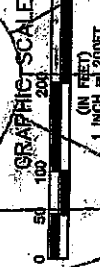
COBIA CT

WAHOO CT

SNOOK DRIVE

BLUEFIN CT

SNOOK DRIVE



MATCHLINE  
MATCHLINE  
SHEET 14  
SHEET 16

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2	BY	...
3	CHECKED	...
4	DATE	...
5	BY	...
6	CHECKED	...
7	DATE	...
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12	CHECKED	...
13	DATE	...
14	BY	...
15	CHECKED	...
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17	BY	...
18	CHECKED	...
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99	CHECKED	...
100	DATE	...

PLAN VIEW DATA POINT PLOT  
BATHYMETRIC SURVEY  
ROYAL HARBOR

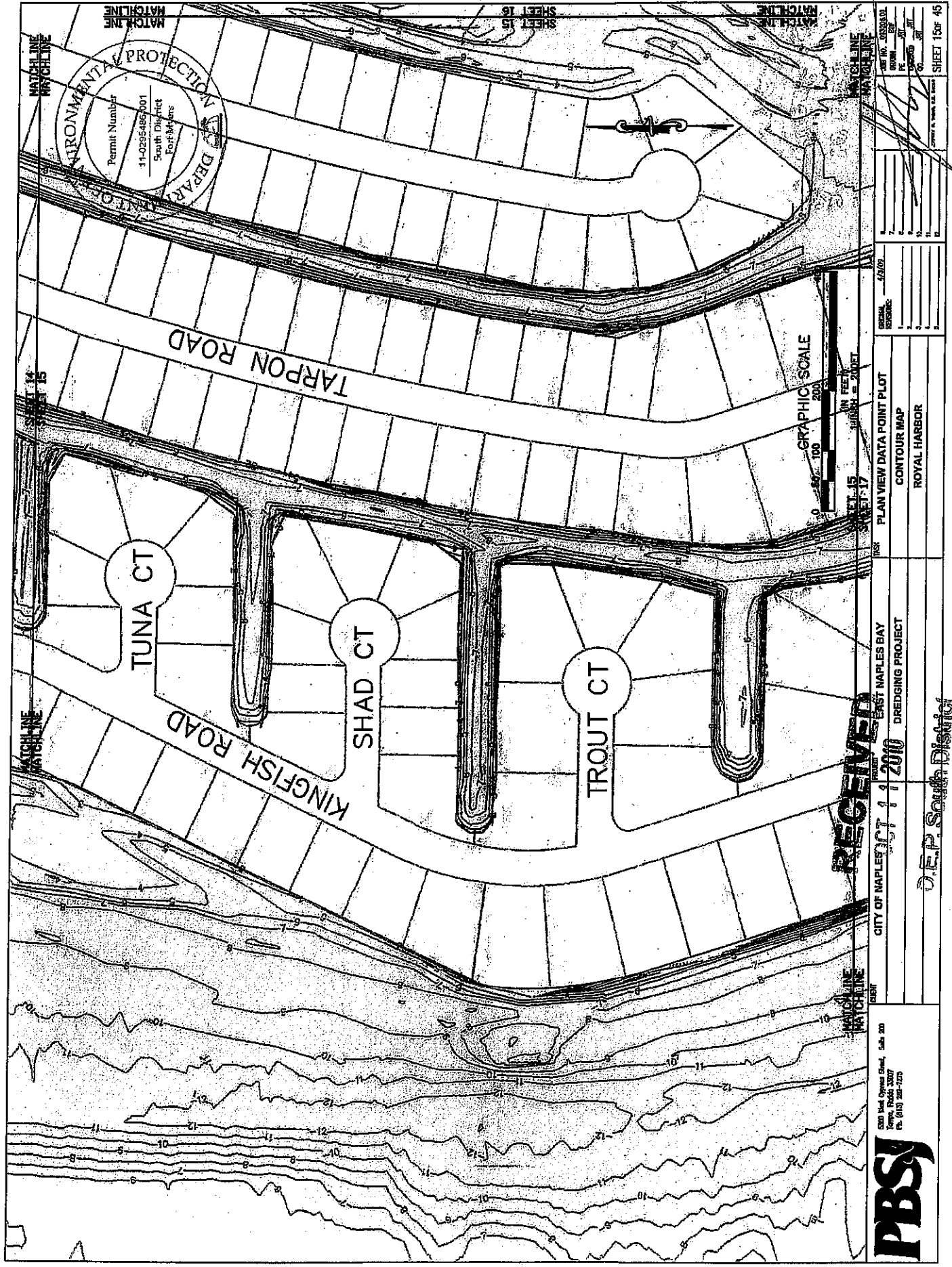
CITY OF NAPLES  
OUTLET 11 NAPLES BAY  
DRAINAGE PROJECT

DEP Sound District

5201 1st Avenue, Suite 200  
Naples, Florida 34104  
PH (813) 362-2270



SHEET 14 OF 45



SHEET 15  
SHEET 16  
SHEET 17  
SHEET 18

MATCHLINE  
MATCHLINE  
MATCHLINE  
MATCHLINE

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MATCHLINE

GENERAL REFERENCE:

1	PLAN VIEW DATA POINT PLOT
2	CONTOUR MAP
3	ROYAL HARBOR

PROJECT: EAST NAPLES BAY DREDGING PROJECT

CITY OF NAPLES OCT 4 2010

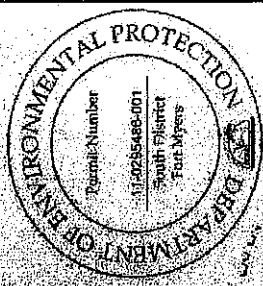
D.E.P. South District

RECEIVED

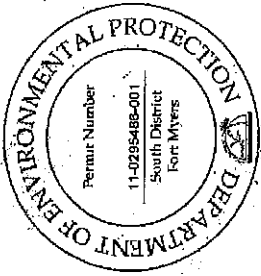
3000 West Cypress Street, Suite 200  
Naples, Florida 34107  
Tel. (813) 247-1700

PBS

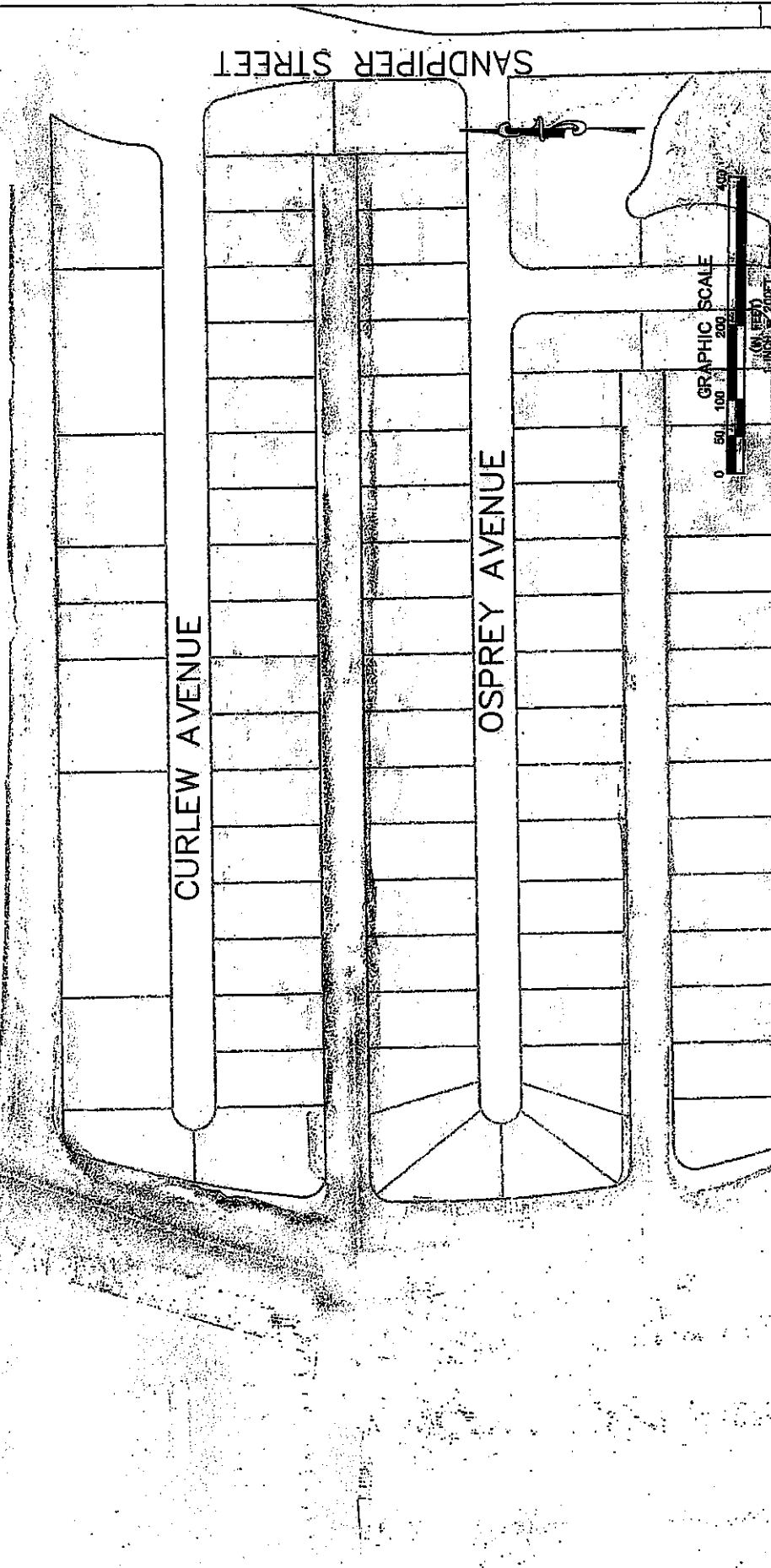
MATCHLINE SHEET 9 MATCHLINE SHEET 10 MATCHLINE SHEET 11



<b>PBS</b> 2301 West Orange Street, Suite 200 Fort Lauderdale, FL 33307 Tel: (954) 582-7225	CITY OF MAPLES PROJECT: EAST MAPLES BAY DATE: OCT 11 2007 DRAWING PROJECT	PLAN VIEW DATA POINT PLOT CONTOUR MAP ROYAL HARBOR	SHEET 17 OF 45
	D.E.P. South District	RECEIVED OCT 11 2007	APPROVED: _____ DATE: _____ DRAWN BY: _____ CHECKED BY: _____ DATE: _____



MIAMI TRAIL



MATCHLINE  
MATCHLINE

3300 West Cypress Street, Suite 200  
Fort Myers, Florida 33907  
Tel: (941) 938-7770

**PBS&J**

CLIENT: CITY OF MIAMI, EAST NAPLES BAY WEDDING PROJECT

PROJECT: SIDE SCAN SONAR MAP GOLDEN SHORES

DATE: 10/11/2006

SCALE: 1/2" = 100'

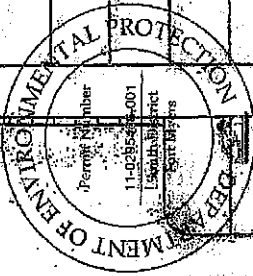
SHEET 18 OF 45

SHEET 18 OF 45

D.E.P. South District

MATCHLINE  
MATCHLINE

PELICAN AVENUE SHEET 18  
SHEET 19



CHERRY STONE CT

CLAM CT

LITTLE NECK CT

BLUE POINT AVENUE

CHESAPEAKE AVENUE



MATCHLINE  
MATCHLINE

JF WELBROX AVENUE

MATCHLINE  
MATCHLINE

330 West Orange Street, Suite 200  
Coral Gables, Florida 33137  
P. (305) 351-7775



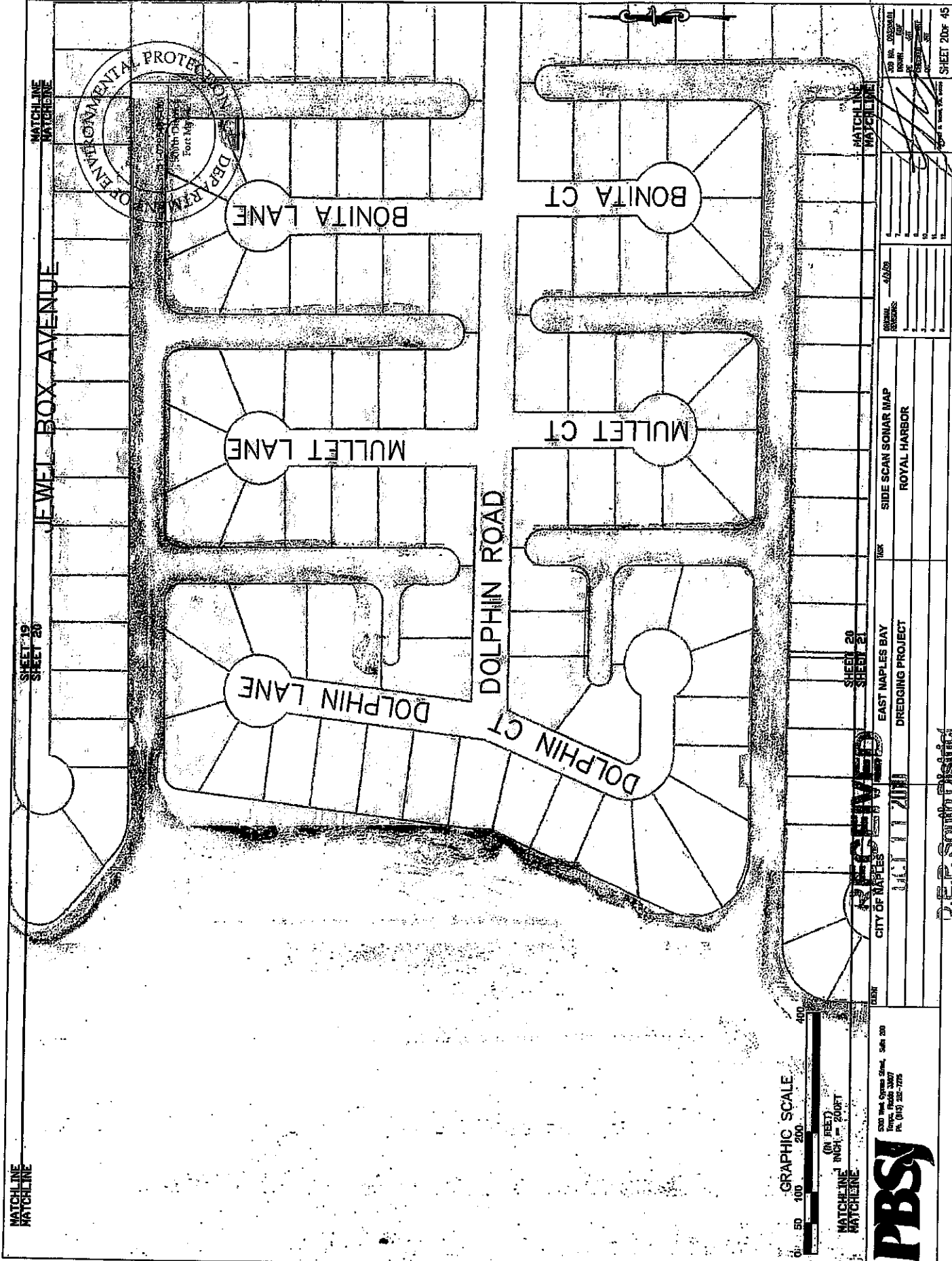
CITY OF NAPLES EAST NAPLES BAY  
DREDGING PROJECT

SIDE SCAN SONAR MAPS  
OYSTER BAY

DATE: 4/2/09

DATE: 4/2/09  
SHEET 19 OF 45

D.F.P. South District

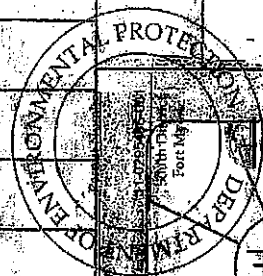


MATCHLINE  
MATCHLINE

SHEET 19  
SHEET 20

JEWEL BOX AVENUE

MATCHLINE  
MATCHLINE



DOLPHIN LANE

MULLET LANE

BONITA LANE

DOLPHIN ROAD

DOLPHIN CT

MULLET CT

BONITA CT

GRAPHIC SCALE  
0 50 100 200 400

(IN FEET)

MATCHLINE  
MATCHLINE

NOV 11 2007

SHEET 20  
SHEET 21

530 3rd Street, Suite 200  
Tampa, Florida 33607  
Tel: (813) 252-7775



RECEIVED  
CITY OF NAPLES

EAST NAPLES BAY  
DREDGING PROJECT

ROYAL HARBOR

NOV 11 2007

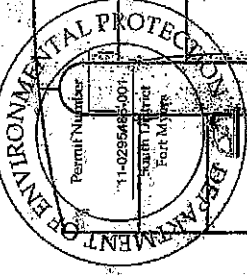
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MATCHLINE

NOV 11 2007  
SHEET 20 of 45

D.E.P. South District

MATCHLINE SHEET 20 MATCHLINE SHEET 21

MARLIN DRIVE



KINGFISH ROAD

TARPON ROAD

SNOOK DRIVE

BLUEFIN CT

COBIA CT

WAHOO CT

SNOOK DRIVE



MATCHLINE SHEET 21

530 West Cypress Street, Suite 200  
Tampa, Florida 33607  
P. 813-252-3275



MATCHLINE SHEET 23

CITY OF NAPLES

**TECHNICAL SERVICES**

SNAPLES BAY

DREDGING PROJECT

OCT 1 2000

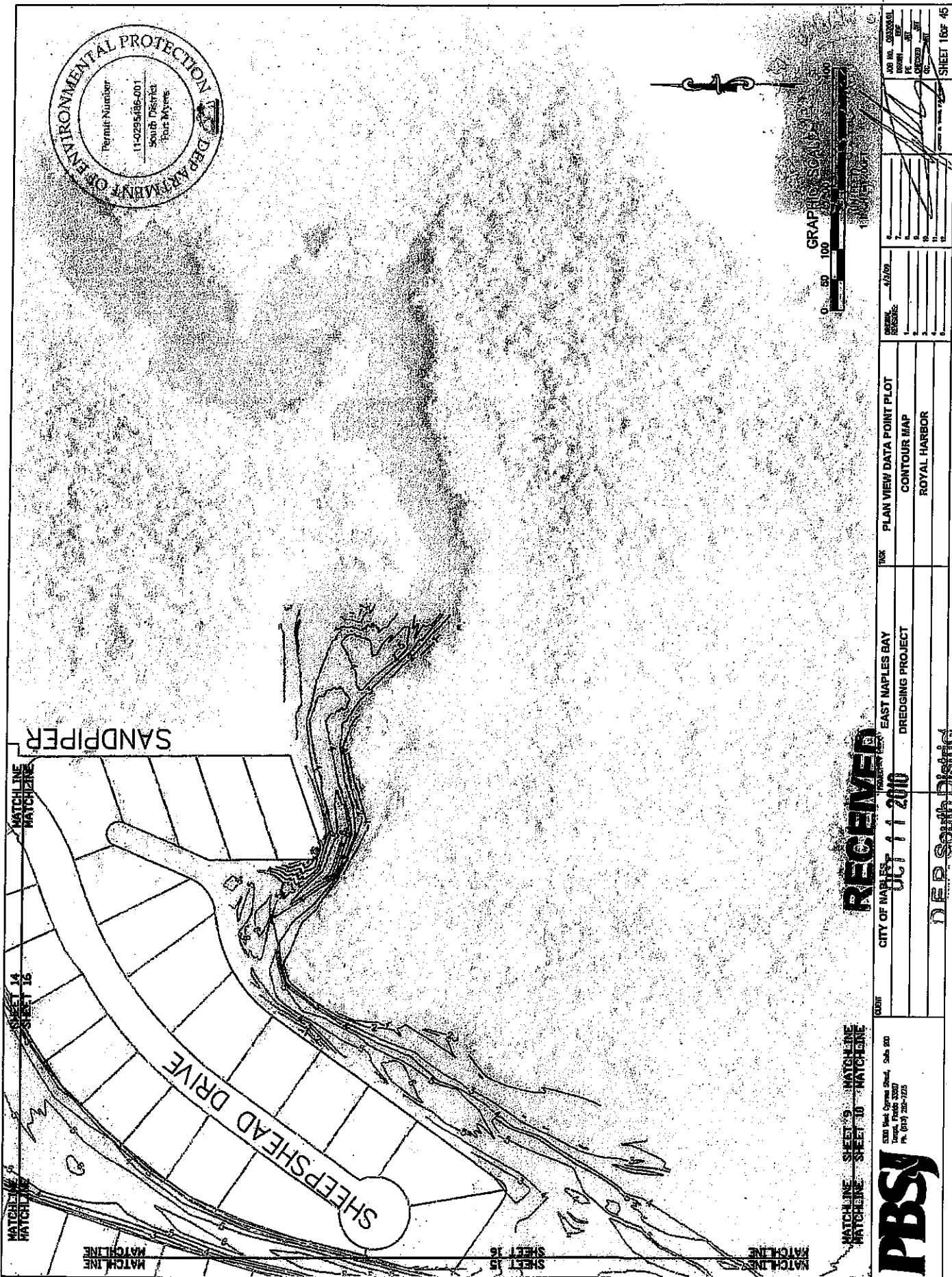
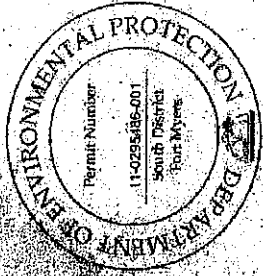
SIDE SCAN SONAR

ROYAL HARBOR

GENERAL REVISIONS:

NO.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		

D.E.P. South District



**RECEIVED**

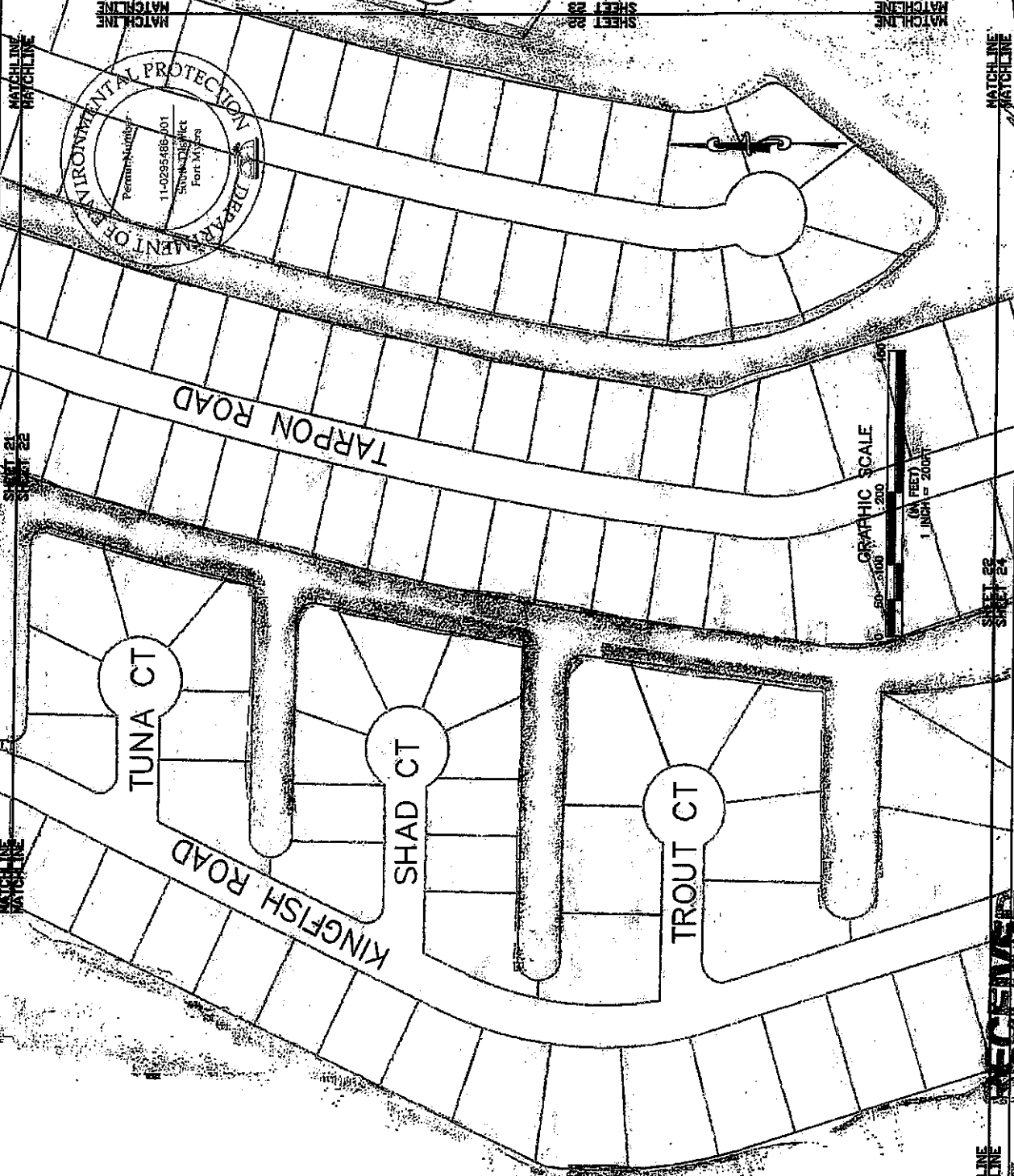
CITY OF NAPLES  
 EAST NAPLES BAY  
 DREDGING PROJECT  
 OCT 11 2010  
 DEP South District

**PBS&J**  
 200 West Cypress Street, Suite 200  
 Naples, Florida 34107  
 Ph: (941) 262-1125

DATE: 1/2/09	PROJECT: PLAN VIEW DATA POINT PLOT
REVISIONS:	CONTOUR MAP
NO.	DESCRIPTION
1	ROYAL HARBOR
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

SHEET 16 OF 46





JOB NO. 033350		DATE	SHEET 22 of 49
DATE	DATE		
DESIGNER	DATE	DATE	DATE
CHECKED	DATE	DATE	DATE
APPROVED	DATE	DATE	DATE

**GENERAL NOTES:**

1. SIDE SCAN SONAR MAP

2. ROYAL HARBOR

**RECEIVED**  
 CITY OF MAPLES  
 OCT 11 2010

**CLIENT:** EAST MAPLES BAY DREDGING PROJECT

**CLIENT:** EAST MAPLES BAY DREDGING PROJECT

**PROJECT:** ROYAL HARBOR

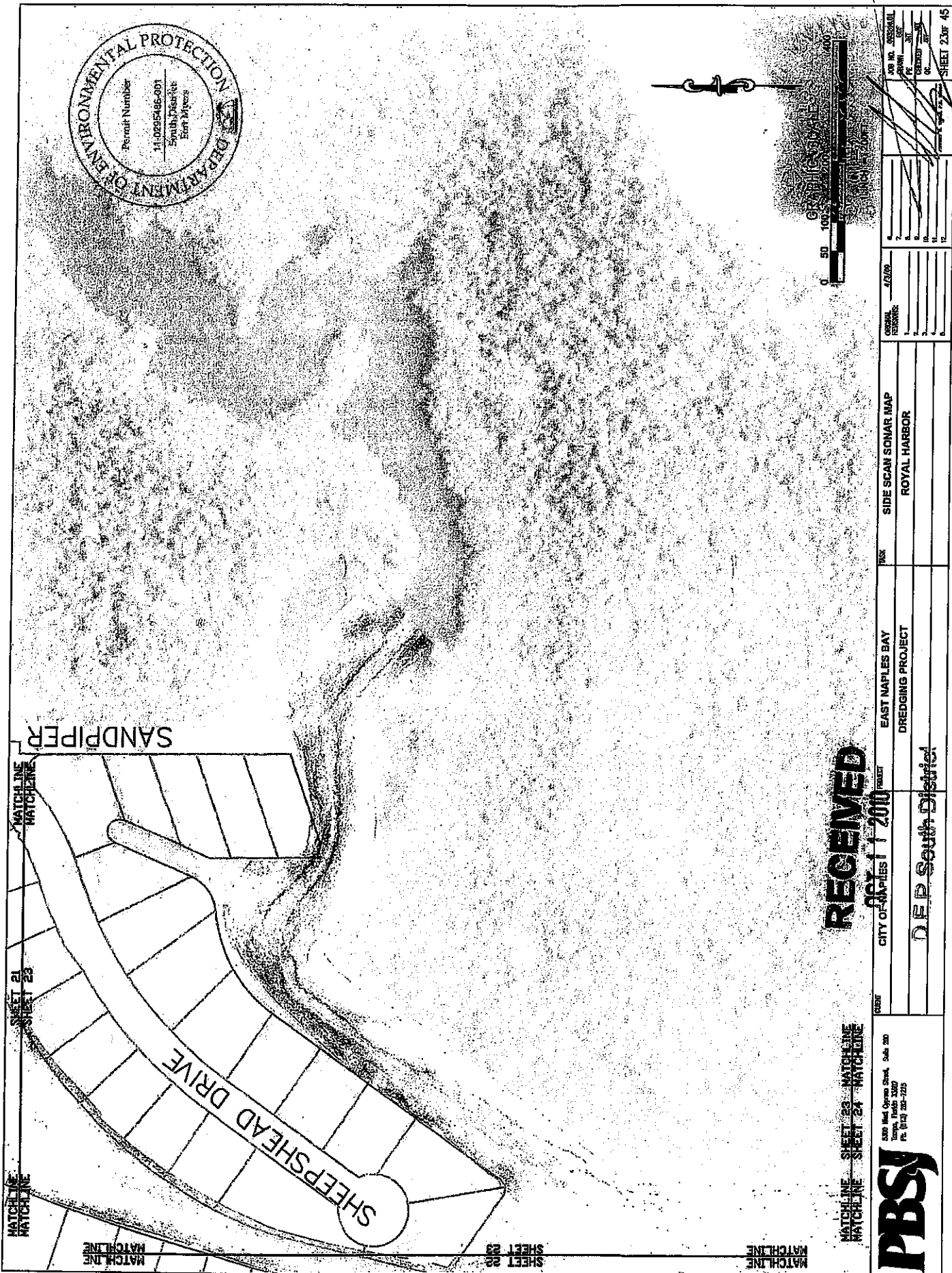
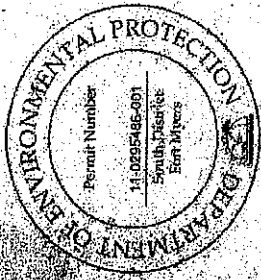
**CLIENT:** EAST MAPLES BAY DREDGING PROJECT

**PROJECT:** ROYAL HARBOR

**PBS**

6300 West Orange Street, Suite 200  
 Tampa, Florida 33607  
 Ph. (813) 282-2725

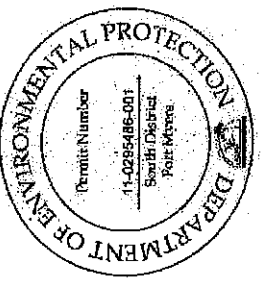
**D.E.P. South District**



**RECEIVED**  
 OCT 11 2010

MATCHLINE SHEET 23 MATCHLINE MATCHLINE SHEET 24 MATCHLINE		MATCHLINE SHEET 22 MATCHLINE MATCHLINE SHEET 21 MATCHLINE	
3300 West Orange Street, Suite 300 Tampa, Florida 33607 Ph: (813) 282-7225		CLIENT: CITY OF NAPLES PROJECT: EAST NAPLES BAY DREDGING PROJECT DISTRICT: D.E.P. South District	
PROJECT: SIDE SCAN SONAR MAP LOCATION: ROYAL HARBOR		GENERAL RESOURCES: 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____	
DATE: 4/24/09		SHEET 23 OF 45	

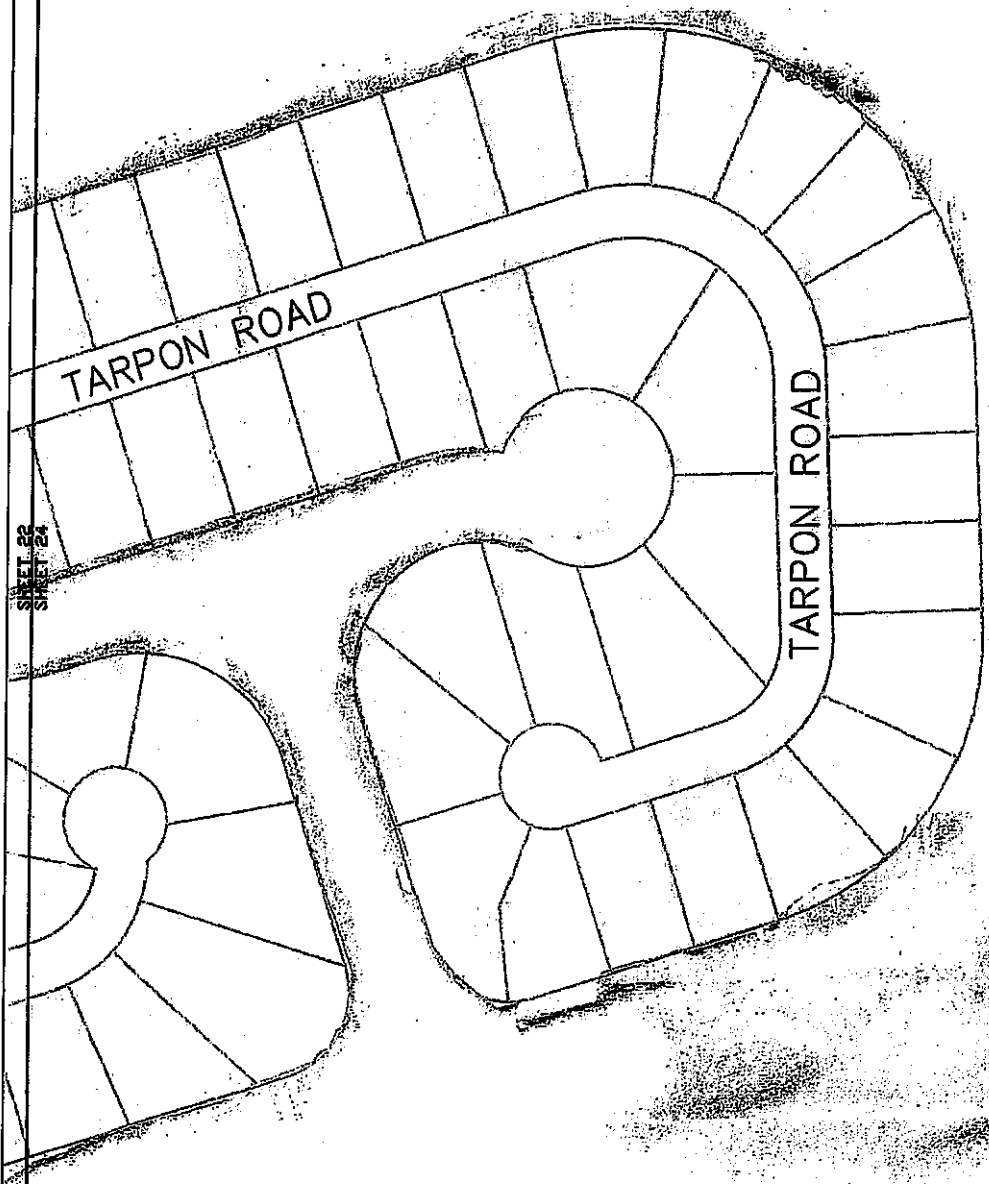
MATCHLINE SHEET 23 MATCHLINE  
MATCHLINE SHEET 24 MATCHLINE



MATCHLINE  
MATCHLINE

SHEET 22  
SHEET 24

MATCHLINE  
MATCHLINE



DATE	11/11/2000
BY	[Signature]
CHECKED BY	[Signature]
SCALE	AS SHOWN
PROJECT	ROYAL HARBOR
SHEET	24 of 45

SIDE SCAN SONAR MAP  
ROYAL HARBOR

CITY OF NAPLES  
EST NAPLES BAY  
RECREATION AND  
BOATING PROJECT

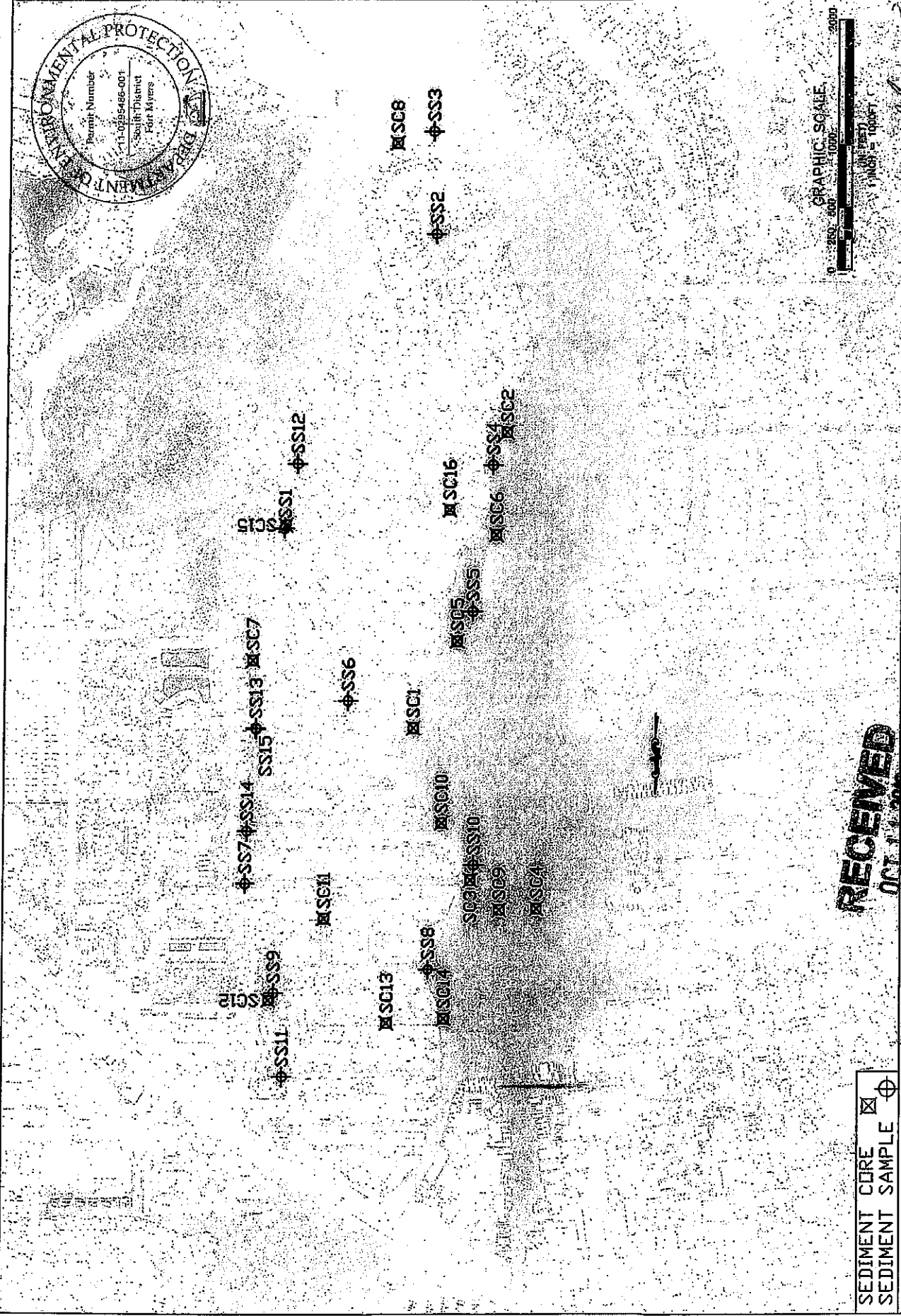
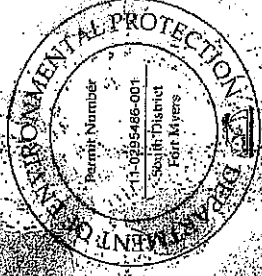
**RECEIVED**  
OCT 11 2000

CLIENT

3400 1st Street, Suite 200  
Naples, FL 34107  
Tel: (813) 486-1225



D.E.P. South District



GRAPHIC SCALE  
 0 100 200 300 400 500  
 METERS  
 0 100 200 300 400 500  
 FEET

**RECEIVED**  
 OCT 11 2010

SEDIMENT CORE  
 SEDIMENT SAMPLE

1000 The Greenway  
 Harrisburg, PA 17101-2028



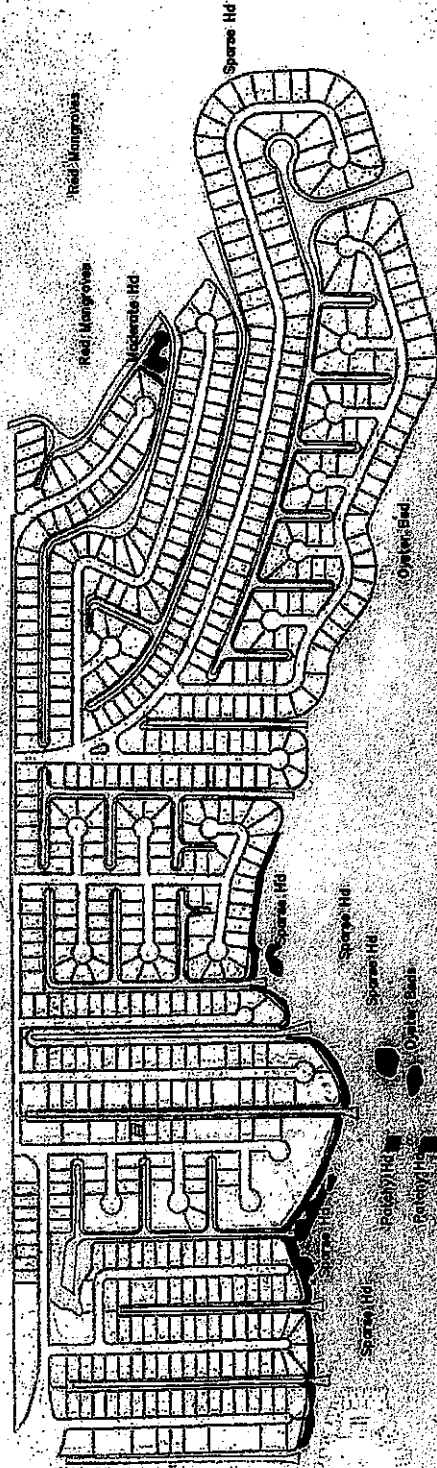
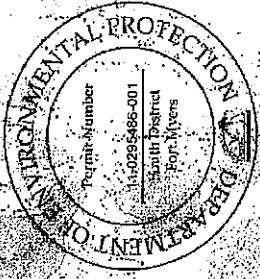
CITY OF MAPLES  
 EAST MAPLES BAY  
 DREDGING PROJECT

SEDIMENT AND CORE SAMPLE  
 LOCATIONS

CLIENT  
 D.E.P. South District

DATE  
 4/2/09

1	DATE	BY
2	DATE	BY
3	DATE	BY
4	DATE	BY
5	DATE	BY
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8	DATE	BY
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10	DATE	BY



DATE	BY	NO.	REV.

PROJECT	6206
TITLE	SUBMERGED AQUATIC VEGETATION ASSESSMENT
DATE	MAY 2007

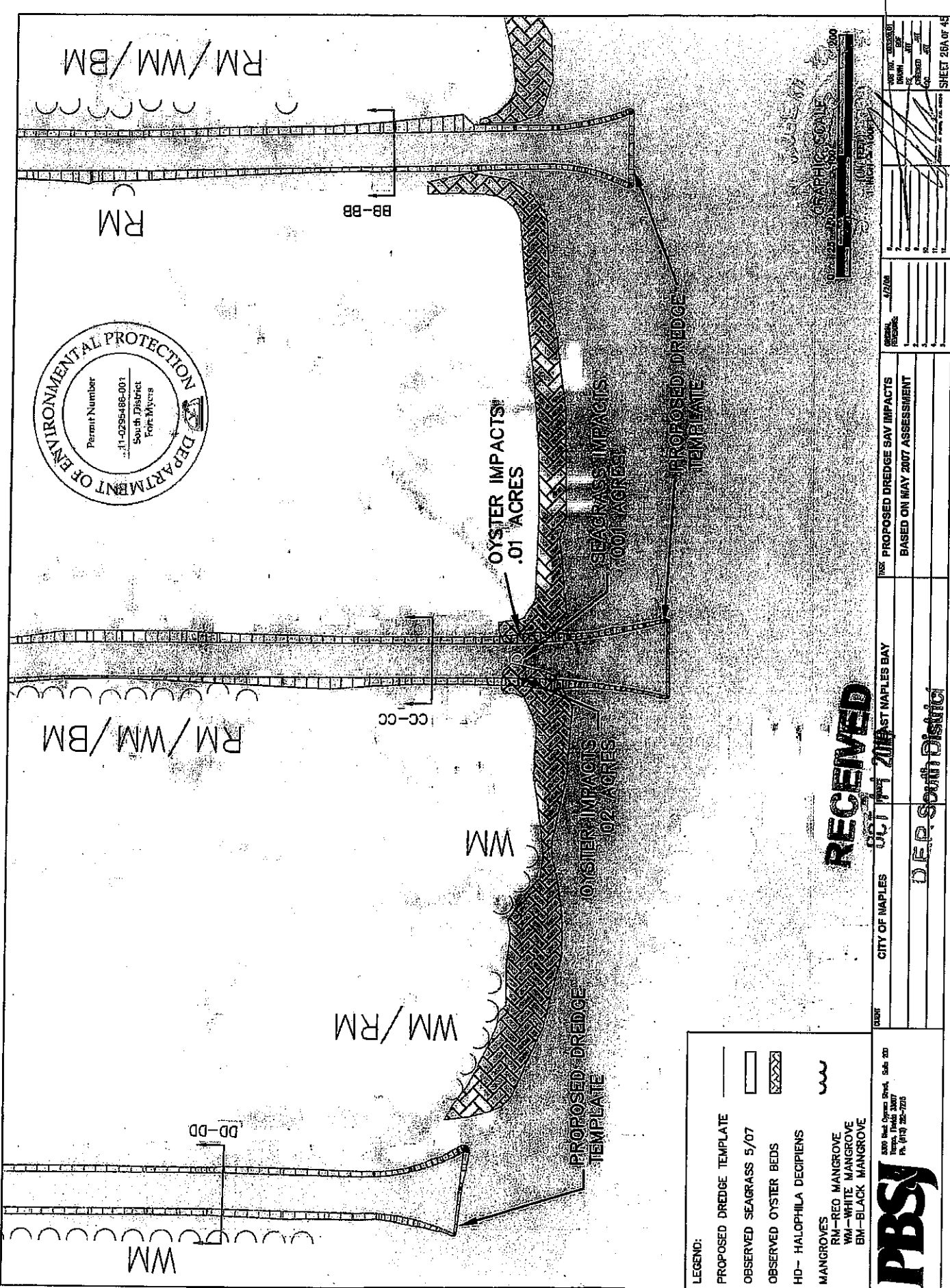
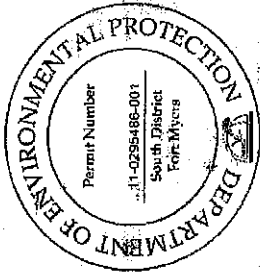
CITY OF NAPLES	EAST NAPLES BAY
DEP. South District	

**RECEIVED**  
OCT 11 2010

LEGEND:

- PROPOSED DREDGE TEMPLATE
- OBSERVED SEAGRASS 5/07
- OBSERVED OYSTER BEDS
- HD - HALOPHILA DECIPENS
- MANGROVES
  - RM - RED MANGROVE
  - WM - WHITE MANGROVE
  - BM - BLACK MANGROVE

520 West Cypress Street, Suite 200  
Naples, Florida 34107  
Tel: (813) 281-1274



RM/WM/BM

RM

BB-BB

CC-CC

RM/WM/BM

WM

WM/RM

DD-DD

WM

**RECEIVED**  
 OCT 17 2011  
 CITY OF NAPLES

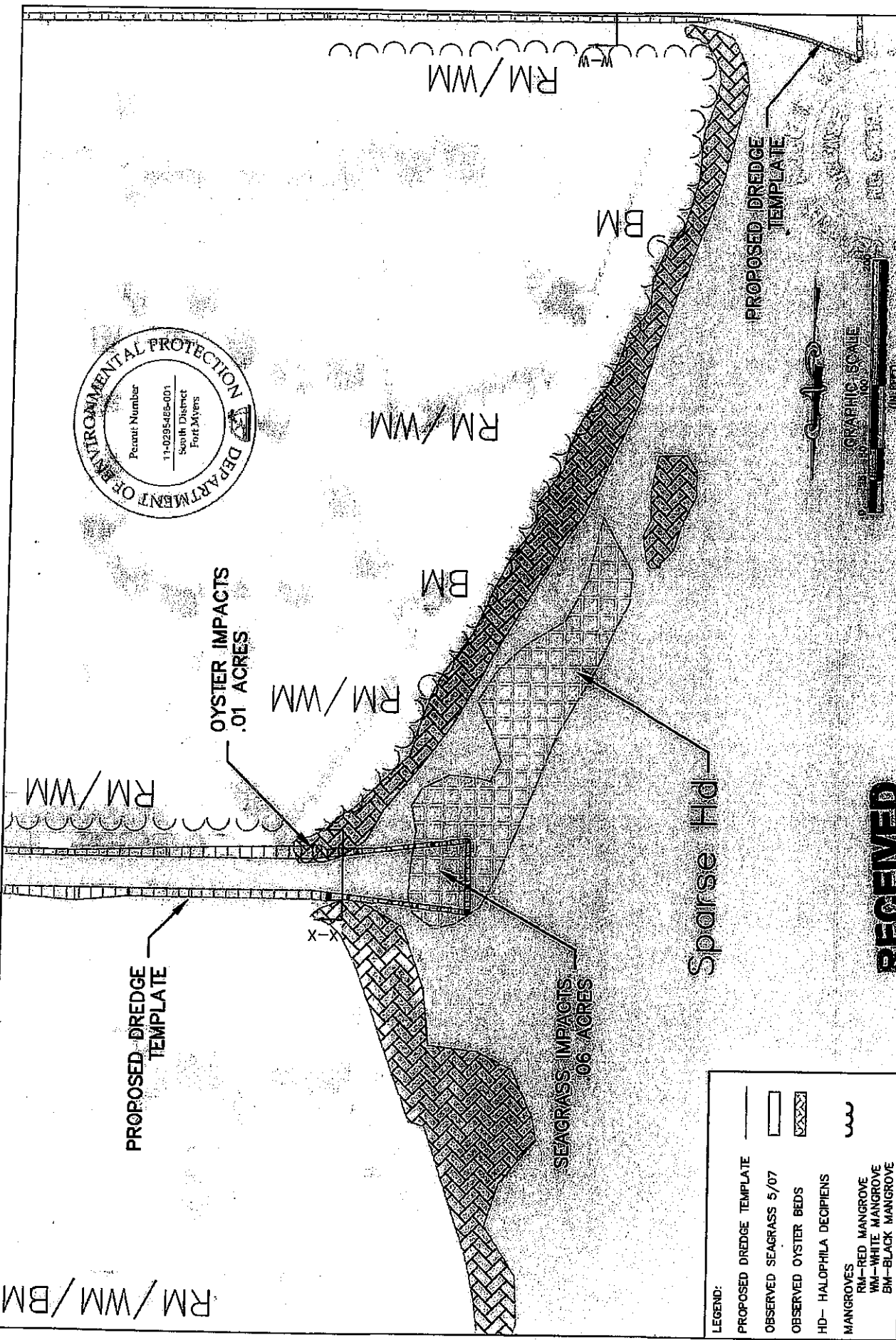
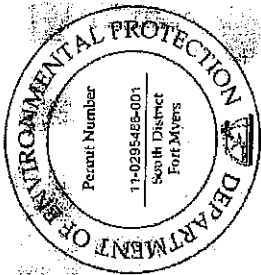
WEST NAPLES BAY  
 D.E.P. South District

- LEGEND:**
- PROPOSED DREDGE TEMPLATE
  - ▭ OBSERVED SEAGRASS 5/07
  - ▩ OBSERVED OYSTER BEDS
  - HD— HALOPHILA DECIPENS
  - MANGROVES
  - RM—RED MANGROVE
  - WM—WHITE MANGROVE
  - BM—BLACK MANGROVE

**PBS&J**  
 3450 Sand Ocean Blvd., Suite 200  
 Naples, Florida 34107  
 Ph. (813) 263-7720

DATE	4/2/06	ISSUE	1
BY		DESIGNED BY	
CHECKED BY		PROJECT NO.	
APPROVED BY		SHEET NO.	
		TOTAL SHEETS	48
		SHEET NO.	26A OF 48

PROPOSED DREDGE SAV IMPACTS  
 BASED ON MAY 2007 ASSESSMENT



**LEGEND:**

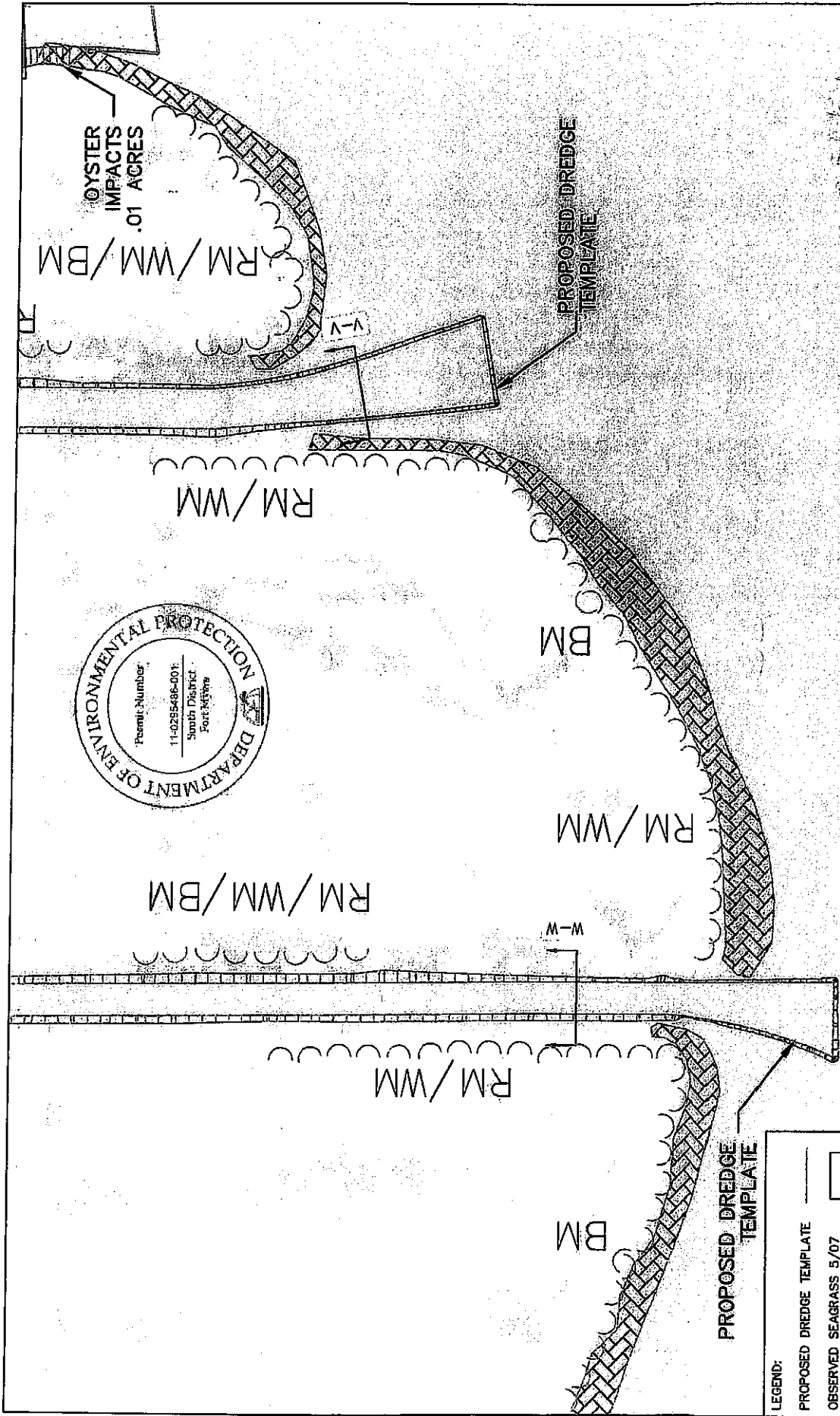
—	PROPOSED DREDGE TEMPLATE
▭	OBSERVED SEAGRASS S/07
▨	OBSERVED OYSTER BEDS
HD	HALOPHILA DECIPENS
MANGROVES	
RM	RED MANGROVE
WM	WHITE MANGROVE
BM	BLACK MANGROVE

**RECEIVED**  
 CITY OF NAPLES EAST NAPLES BAY  
 OCT 11 2007  
 D.E.P. South District

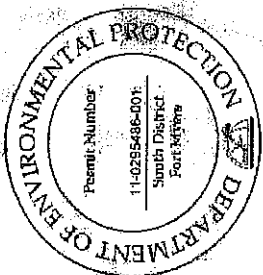
**PBS&J**  
 230 West Cypress Street, Suite 200  
 Tampa, Florida 33607  
 Ph. (813) 282-7725

**PROPOSED DREDGE BAY IMPACTS  
 BASED ON MAY 2007 ASSESSMENT**

DATE	11/2/08
DESIGNER	
PERFORMER	
CHECKED	
APPROVED	
SCALE	
SHEET	288 of 45



DATE	11/20/07
BY	J.P. [Signature]
CHECKED BY	[Signature]
APPROVED BY	[Signature]
SCALE	AS SHOWN
SHEET	28C OF 45



**RECEIVED**  
 CITY OF NAPLES / EAST NAPLES BAY  
 D.E.P. South District  
 J.P. [Signature]

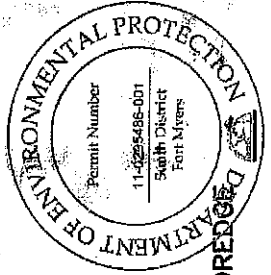
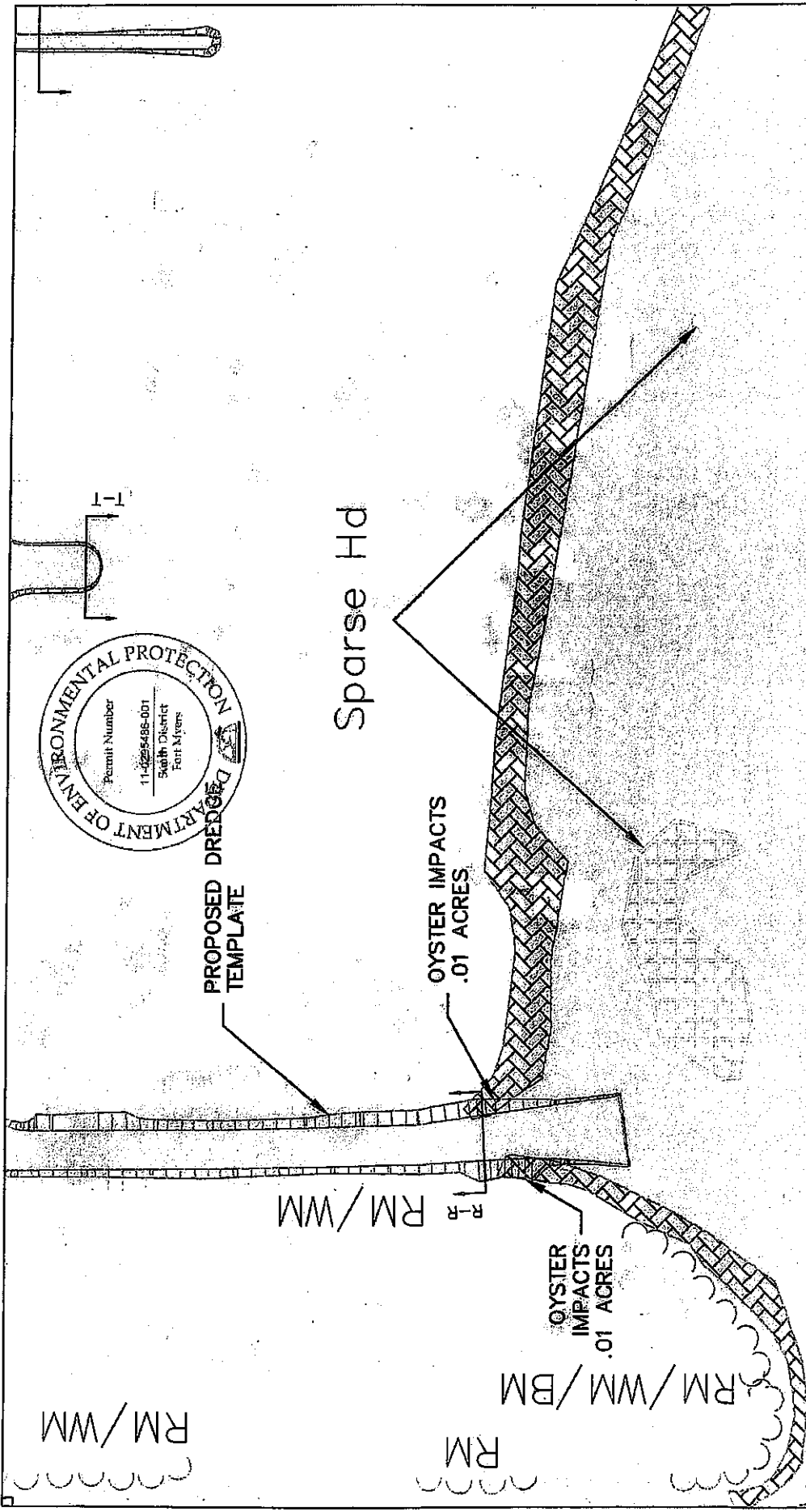
**PBS&J**  
 2001 West Orange Street, Suite 200  
 Naples, Florida 34107  
 Ph. (813) 287-7725

**LEGEND:**

- PROPOSED DREDGE TEMPLATE
- OBSERVED SEAGRASS 5/07
- OBSERVED OYSTER BEDS
- HD - HALOPHILA DECIPENS MANGROVES
- RM - RED MANGROVE
- WM - WHITE MANGROVE
- BM - BLACK MANGROVE

PROJECT	EAST NAPLES BAY
DATE	11/20/07
DESCRIPTION	PROPOSED DREDGE SAY IMPACTS BASED ON MAY 2007 ASSESSMENT
SCALE	AS SHOWN
SHEET	28C OF 45





PROPOSED DREDGE TEMPLATE

Sparse Hd

OYSTER IMPACTS  
.01 ACRES

OYSTER IMPACTS  
.01 ACRES

RM/WM

RM/WM/BM

RM/WM

RM

**LEGEND:**

- PROPOSED DREDGE TEMPLATE
- OBSERVED SEAGRASS 5/07
- OBSERVED OYSTER BEDS
- HD - HALOPHILA DECIPIENS
- MANGROVES
  - RM - RED MANGROVE
  - WM - WHITE MANGROVE
  - BM - BLACK MANGROVE

**PBSJ**  
 6001 West Ocean Blvd., Suite 200  
 Beach Road 2007  
 Ft. Myers, FL 33907

**RECEIVED**  
 CITY OF NAPLES  
 OCT 14 2010

CLIENT

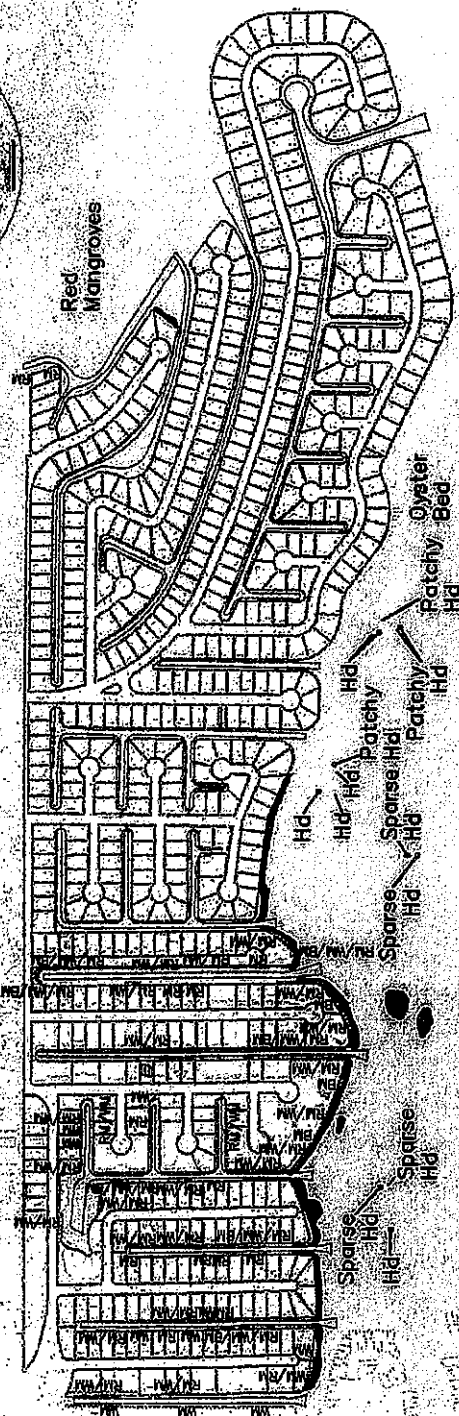
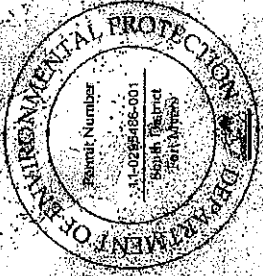
EAST NAPLES BAY

TASK PROPOSED DREDGE SAV IMPACTS  
 BASED ON MAY 2007 ASSESSMENT

GENERAL PERSONNEL:

1	JOB NO.	00000000
2	DRAWN BY	
3	DATE	
4	SCALE	
5	PROJECT NO.	
6	SHEET NO.	260 OF 45

D.E.P. South District



DATE	BY	REVISION

DATE	BY	REVISION

PROJECT	EAST MAPLES BAY
DATE	11/1/2007
ASSESSMENT	AUGUST 2007

**RECEIVED**  
CITY OF MAPLES BAY

D.E.P. South District

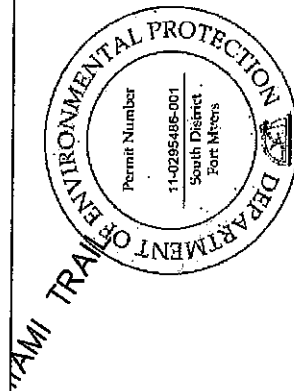
LEGEND:

PROPOSED DREDGE TEMPLATE	
OBSERVED SEAGRASS B/07	
OBSERVED OYSTER BEDS	
HD- HALOPHILA DECIPENS	
MANGROVES	
RM- RED MANGROVE	
WM- WHITE MANGROVE	
BM- BLACK MANGROVE	

**PBSJ**

5300 Road Oyster Street, Suite 200  
James, Florida 32027  
Ph. (910) 352-7275

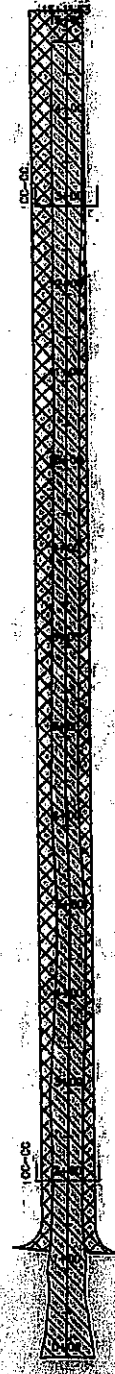
8300 Road Oyster Street, Suite 200  
James, Florida 32027  
Ph. (910) 352-7275



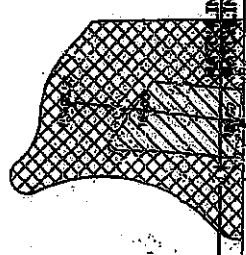
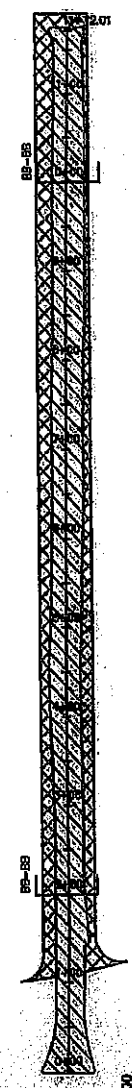
SANDPIPER STREET



CURLEW AVENUE



OSPREY AVENUE



LEGEND:  
DREDGE TEMPLATE (CITY)   
DREDGE TEMPLATE (PRIVATE)



**HATCHLINE HATCHLINE**

830 West Orange Street, Suite 210  
Tampa, Florida 33607  
Ph. (813) 282-2270



**RECEIVED**

**PELICAN AVENUE SHEET 28**

**PROJECT EAST MAPLES BAY**  
**CITY OF MAPLES**  
**FLORIDA**  
**DREDGING PROJECT**



**PROPOSED DREDGE TEMPLATE**  
**DESIGN**  
**-6.0 MLLW**  
**GOLDEN SHORES**

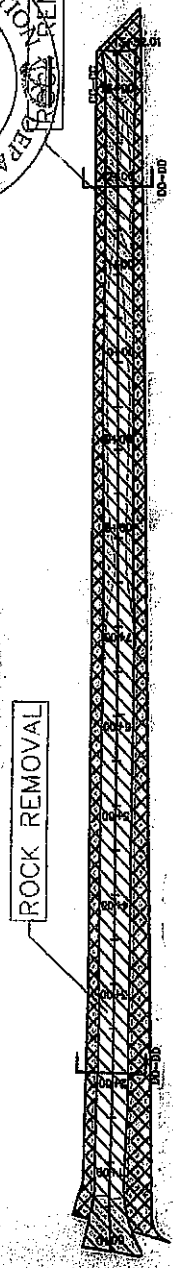
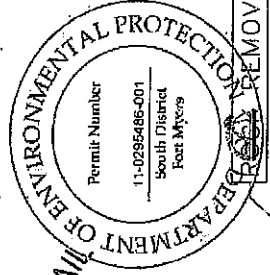
**DATE** 4/1/09

1	DESIGN
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11	DESIGN
12	DESIGN

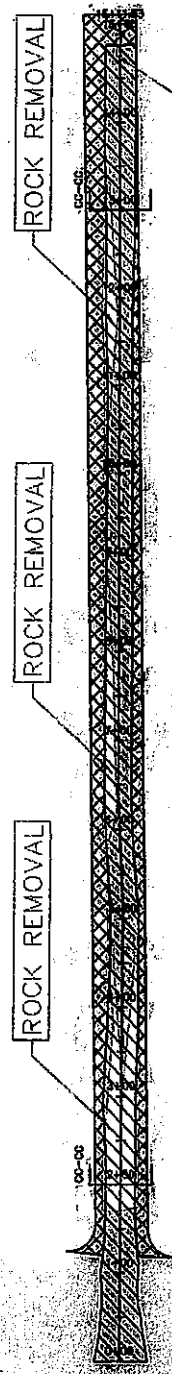
**SHEET 28 OF 45**

LEGEND:

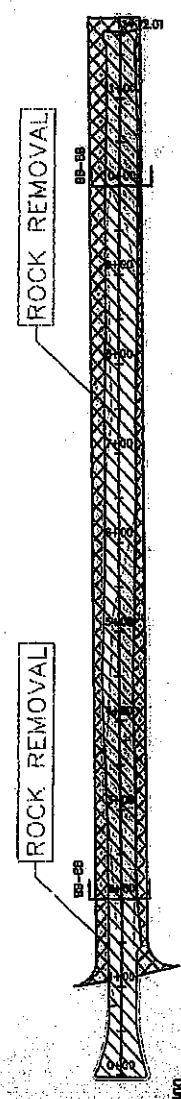
- DREDGE TEMPLATE (CITY) 
- DREDGE TEMPLATE (PRIVATE) 



CURLEW AVENUE



OSPREY AVENUE



SANDPIPER STREET



MATCHLINE

530 West Cypress Street, Suite 200  
 Fort Lee, PA 15043  
 PH: (412) 252-2275



PRECINCT AVENUE SHEET 28  
 MAPLES BAY SHEET 29

CITY OF MAPLES  
 OCT 1 2010  
 DREDGING PROJECT

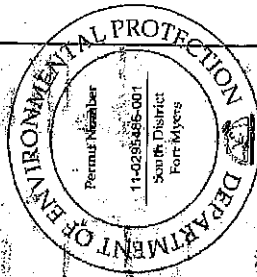
PROPOSED DREDGE TEMPLATE  
 AND ROCK REMOVAL

D.E.P. South District

GOLDEN SHORES

PERSONAL RECORD: 4/15/09

JOB NO. 0928001  
 DRAWN BY  
 CHECKED BY  
 SHEET 28A of 45



PELICAN AVENUE SHEET 28  
SHEET 25

CHERRY STONE CT

CLAM CT

LITTLE NECK CT

BLUE POINT AVENUE

CHESAPEAKE AVENUE

LEGEND:

DREDGE TEMPLATE (CITY)	
DREDGE TEMPLATE (PRIVATE)	



**RECEIVED**  
CITY OF NAPLES  
OCT 11 2007  
EAST OYSTER BAY  
D.E.P. South District

**PBS**  
6501 Road Orange Blvd., Suite 200  
Tampa, Florida 33637  
Ph. (813) 975-1725

DESIGN	PROPOSED DREDGE TEMPLATE	DATE	10/11/07
DESIGN	-6.0 MILW	DATE	
DESIGN	OYSTER BAY	DATE	

DESIGNER: J. F. WELLS  
PROJECT: EAST OYSTER BAY  
DATE: 10/11/07

PERMIT NO. 11-02985-656-001  
SOUTH DISTRICT  
FORT MYERS

DATE NO. 08/28/04  
DESIGNER: JFW  
CHECKED: JFW  
DATE: 08/28/04  
SHEET 28 OF 45

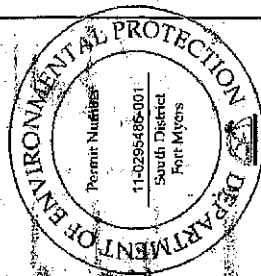
PELICAN AVENUE SHEET 28  
SHEET 29

MATCHLINE  
MATCHLINE

LEGEND:

DREDGE TEMPLATE (CITY)

DREDGE TEMPLATE (PRIVATE)



ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

CHERRY STONE CT

CLAM CT

LITTLE NECK CT

BLUE POINT AVENUE

CHESAPEAKE AVENUE

GRAPHIC SCALE



(IN FEET)  
1" INCH = 200 FT

MATCHLINE  
MATCHLINE



300 West Orange Street, Suite 200  
Naples, Florida 34107  
PA (813) 263-7720

CITY OF NAPLES EAST NAPLES BAY  
DREDGING PROJECT

IF WFL BOX AVENUE  
PROPOSED DREDGE TEMPLATE  
AND ROCK REMOVAL

OYSTER BAY



JOB NO. 030800L  
DRAWN BY  
CHECKED BY  
DATE  
SHEET 29 of 45

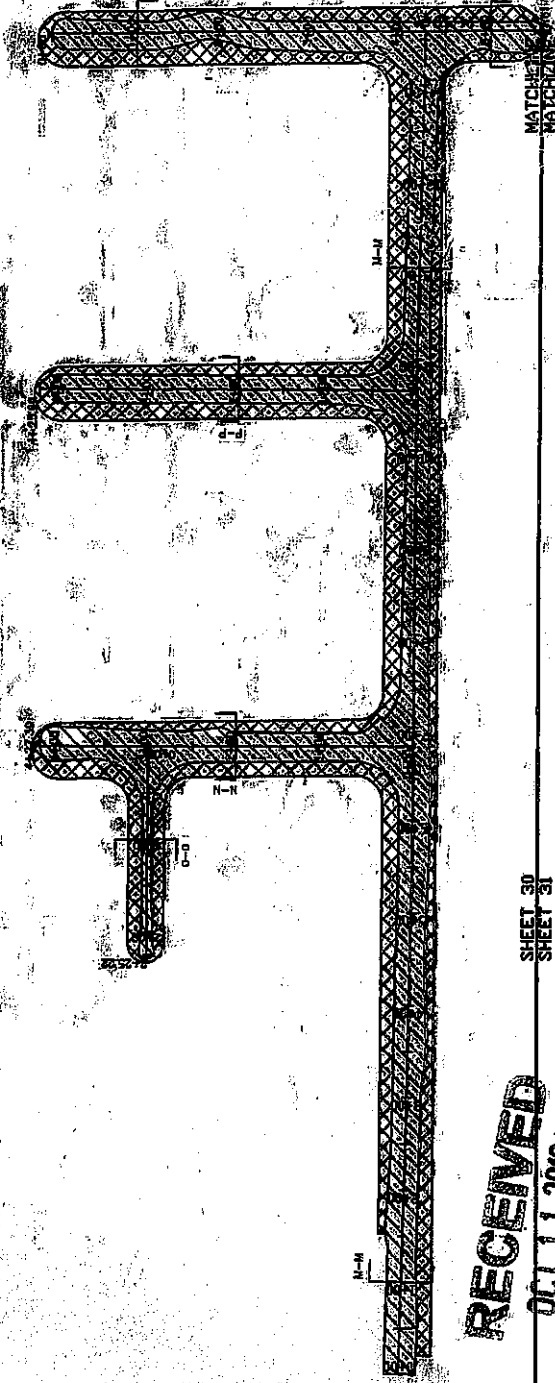
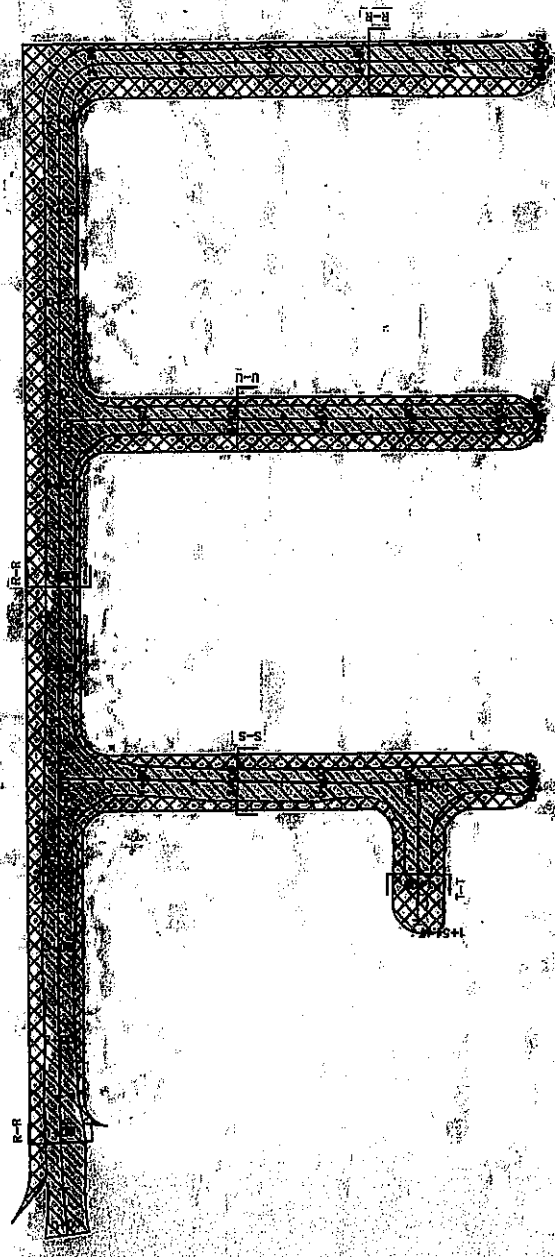
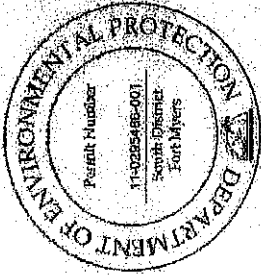
RECEIVED  
CITY OF NAPLES  
11/1/200  
D.E.P. South District

MATCHLINE  
MATCHLINE

SHEET 29  
SHEET 30

LEGEND:

- DREDGE TEMPLATE (CITY) 
- DREDGE TEMPLATE (PRIVATE) 



MATCHLINE  
MATCHLINE

SHEET 30  
SHEET 31

**RECEIVED**  
OCT 11 2010

CITY OF MAPLES  
PROJECT  
EAST MAPLES BAY  
DREDGING PROJECT

DESIGN  
-6.0 MLW  
ROYAL HARBOR

DESIGNER  
DATE

APPROVED  
DATE

DATE

SHEET 30 OF 45



630 Red Opal Street, Suite 200  
Tampa, Florida 33607  
Ph. (813) 222-7715

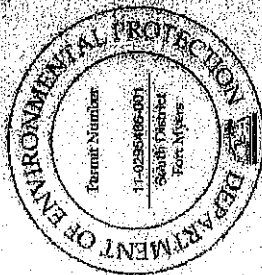
MATCHLINE  
MATCHLINE

SHEET 29  
SHEET 30

LEGEND:

DREDGE TEMPLATE (CITY)

DREDGE TEMPLATE (PRIVATE)



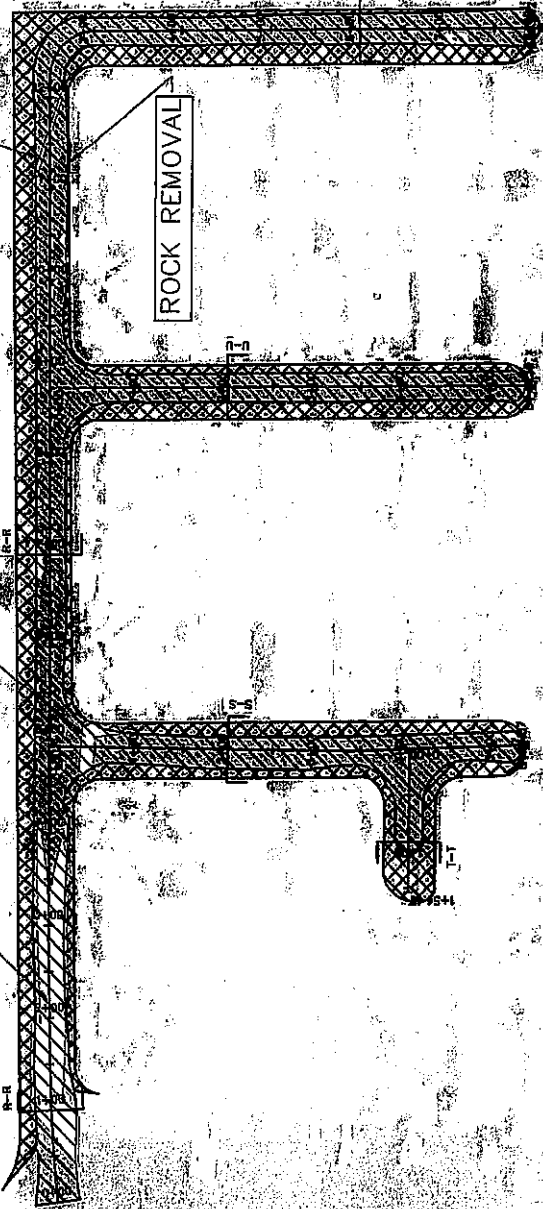
MATCHLINE  
MATCHLINE

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

P-R



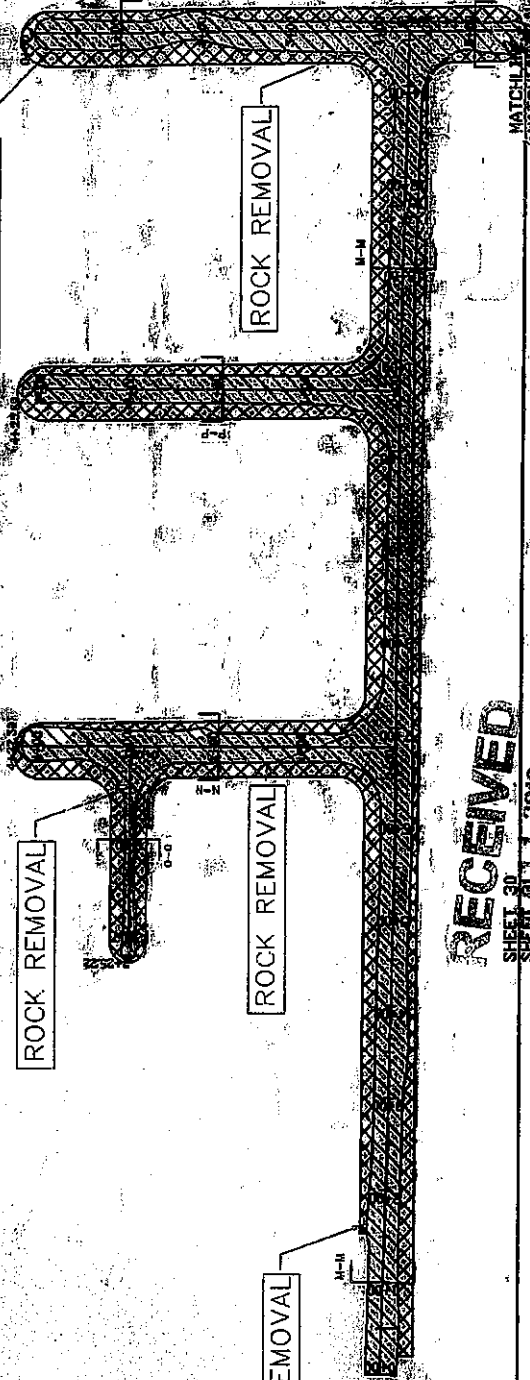
ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

M-R



MATCHLINE  
MATCHLINE



MATCHLINE  
MATCHLINE

RECEIVED  
SHEET 30  
SHEET 29

800 West Cypress Street, Suite 200  
Tampa, Florida 33607  
Ph. (813) 252-7276



CLIENT CITY OF MAPLES

PROJECT EAST NAPLES BAY

PROPOSED DREDGE TEMPLATE

DESIGN PROJECT AND ROCK REMOVAL

ROYAL HARBOR

JOB NO. 080708.01

DATE 11/11/00

DESIGNED BY

CHECKED BY

DATE 4/3/00

SCALE

PROJECT

CLIENT

PROJECT

PROPOSED DREDGE TEMPLATE

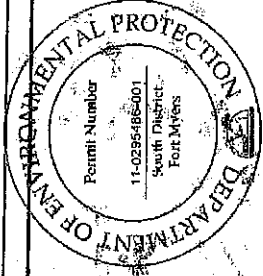
DESIGN PROJECT AND ROCK REMOVAL

ROYAL HARBOR

SHEET 30/0645



MATCHLINE SHEET 30 SHEET 31 MATCHLINE

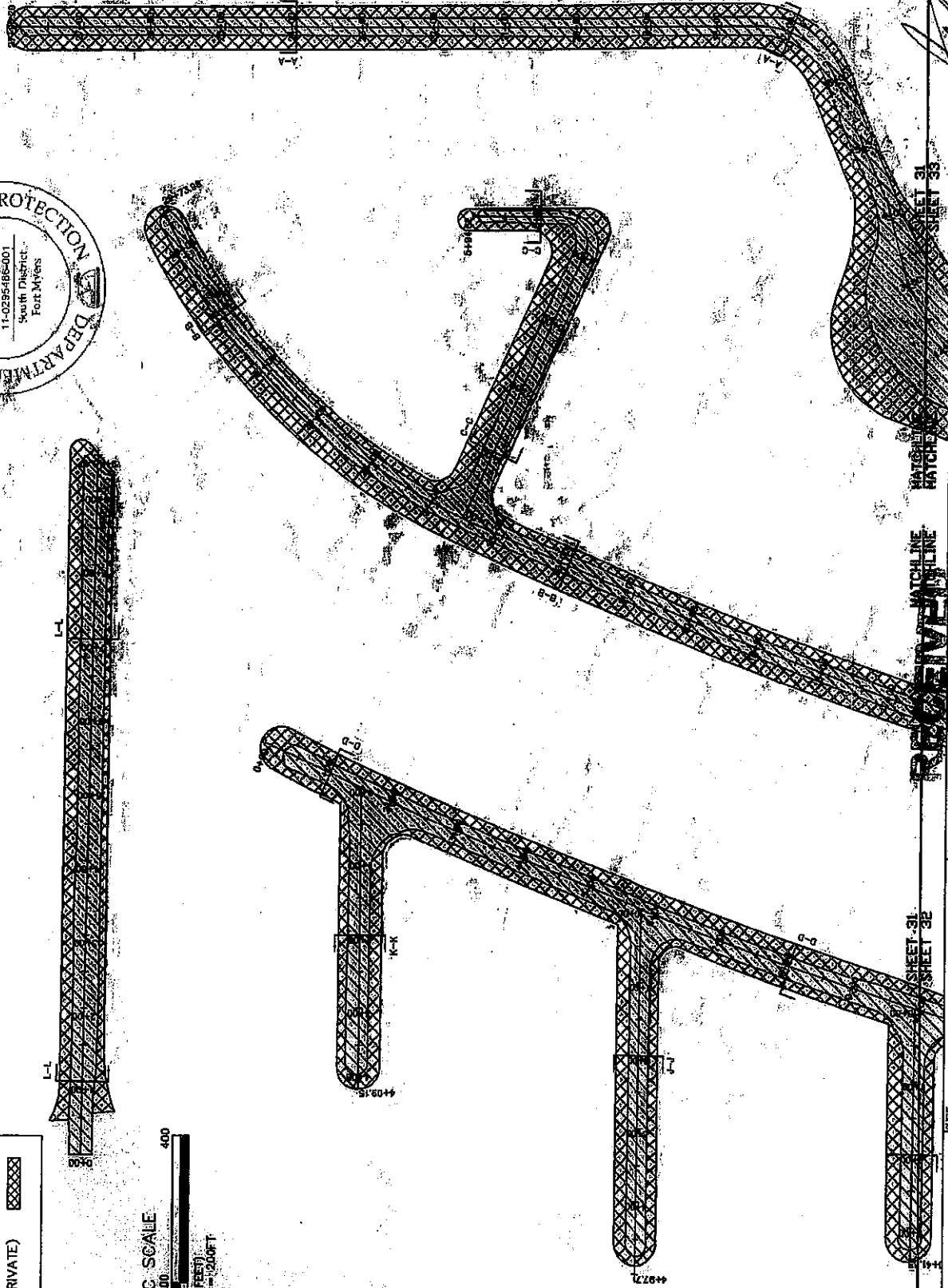


LEGEND:

	DREDGE TEMPLATE (CITY)
	DREDGE TEMPLATE (PRIVATE)



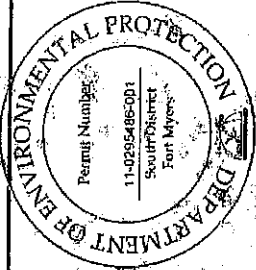
1" = 50' GRAPHIC SCALE



<b>PBS&amp;J</b> 5300 West Cypress Street, Suite 200 Tampa, Florida 33607 Ph. (813) 282-7275	CITY OF NAPLES PROJECT: EAST MAPLES BAY 2010 DREDGING PROJECT SHEET 31 of 45	TASK: PROPOSED DREDGE TEMPLATE DESIGN: -6.0 MLW ROYAL HARBOR SHEET 31 of 45	DATE: 4/2/09
			ORIGINAL:
DESIGNED BY: _____ CHECKED BY: _____ DATE: _____ PROJECT NO. _____ DRAWN BY: _____ DATE: _____ SHEET 31 OF 45			

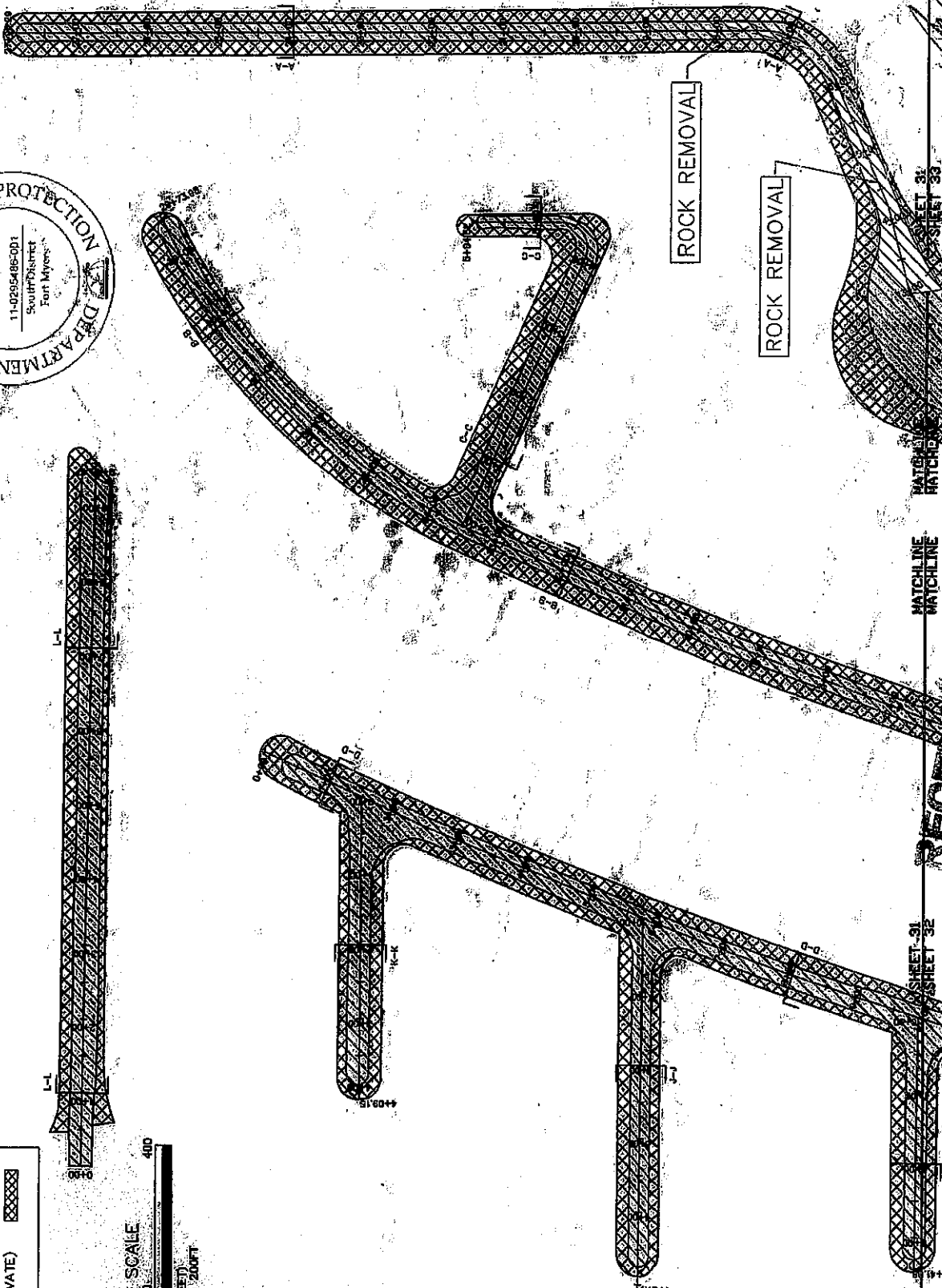
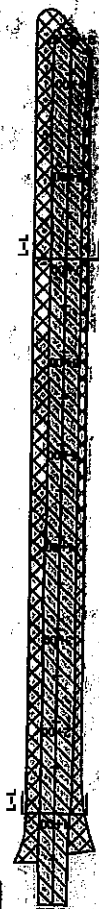
SHEET 30  
SHEET 31

MATCHLINE  
MATCHLINE



LEGEND:

	DREDGE TEMPLATE (CITY)
	DREDGE TEMPLATE (PRIVATE)





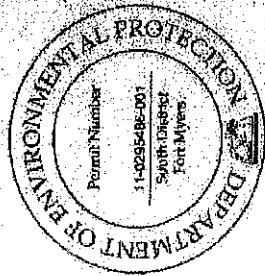
CITY OF MAPLES	PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL	JOB NO. 08396801	DATE	11
			REVISION	1
ROYAL HARBOR		DATE	11	12
D.P.S. South District		DATE	11	12
CITY DREDGING PROJECT		DATE	11	12
REVISION		DATE	11	12
CITY OF MAPLES		DATE	11	12
PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL		DATE	11	12
JOB NO. 08396801		DATE	11	12
REVISION		DATE	11	12
DATE		DATE	DATE	DATE
DATE		DATE	DATE	DATE
DATE		DATE	DATE	DATE
DATE		DATE	DATE	DATE
DATE		DATE	DATE	DATE



5300 West Orange Street, Suite 200  
 Tampa, Florida 33607  
 PH (813) 287-4775

LEGEND:

- DREDGE TEMPLATE (CITY) 
- DREDGE TEMPLATE (PRIVATE) 



**PBS&J**  
 530 West Orange Blvd., Suite 200  
 Tampa, Florida 33607  
 Ph. (813) 287-7725

**RECEIVED**  
 PROJECT: CC EAST NAPLES BANK  
 SUBJECT: CC dredging project  
 D.F.P. South District

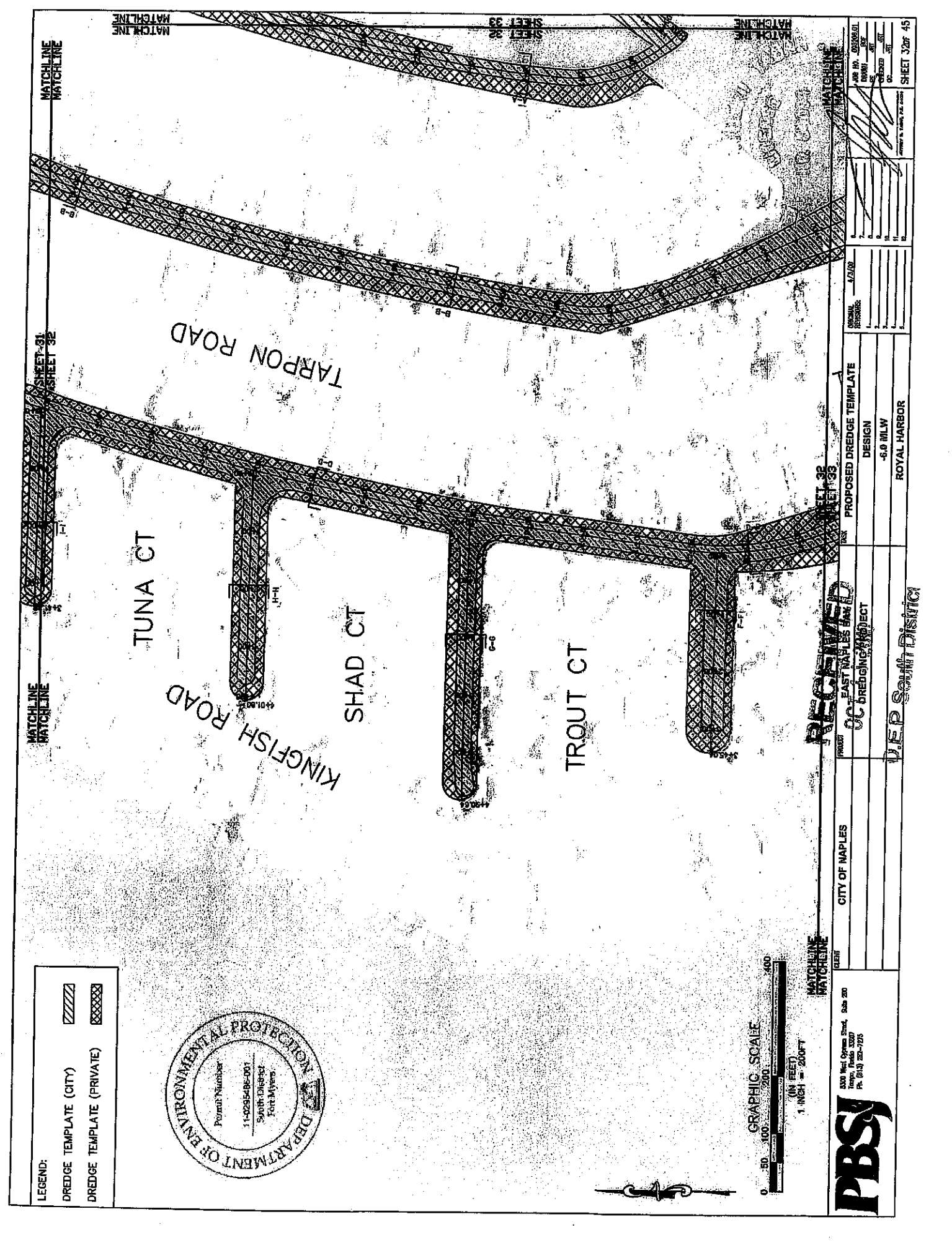
CITY OF NAPLES  
 CLIENT

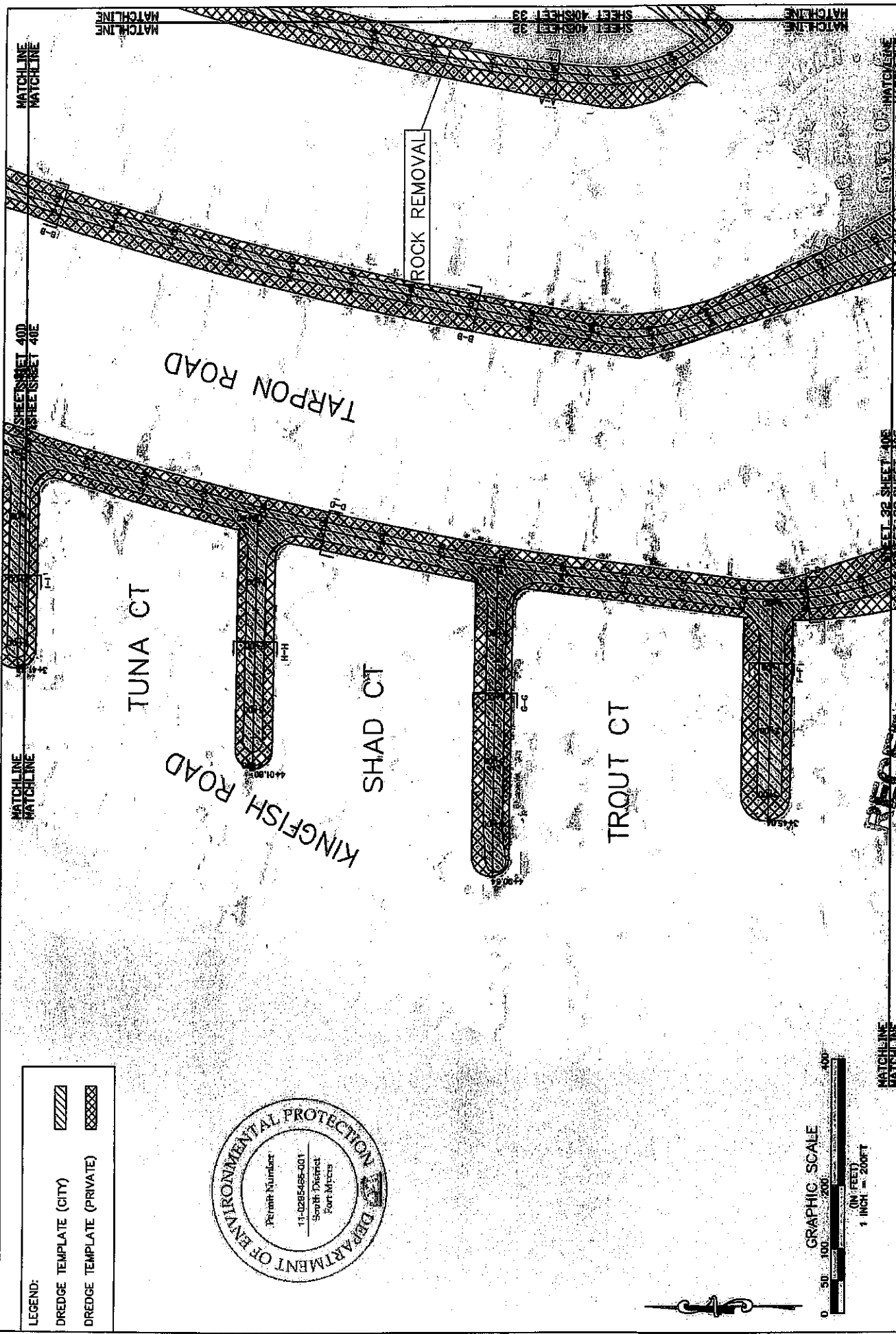
PROPOSED DREDGE TEMPLATE  
 DESIGN  
 -6.0 BILW  
 ROYAL HARBOR

DATE	4/7/03
DESIGNED BY	
CHECKED BY	
DATE	
DATE	
DATE	
DATE	

ORIGINAL RECORDS

DATE: 4/7/03  
 SHEET 32 OF 45





ROCK REMOVAL

TARPON ROAD

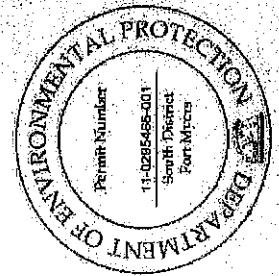
TUNA CT

KINGFISH ROAD

SHAD CT

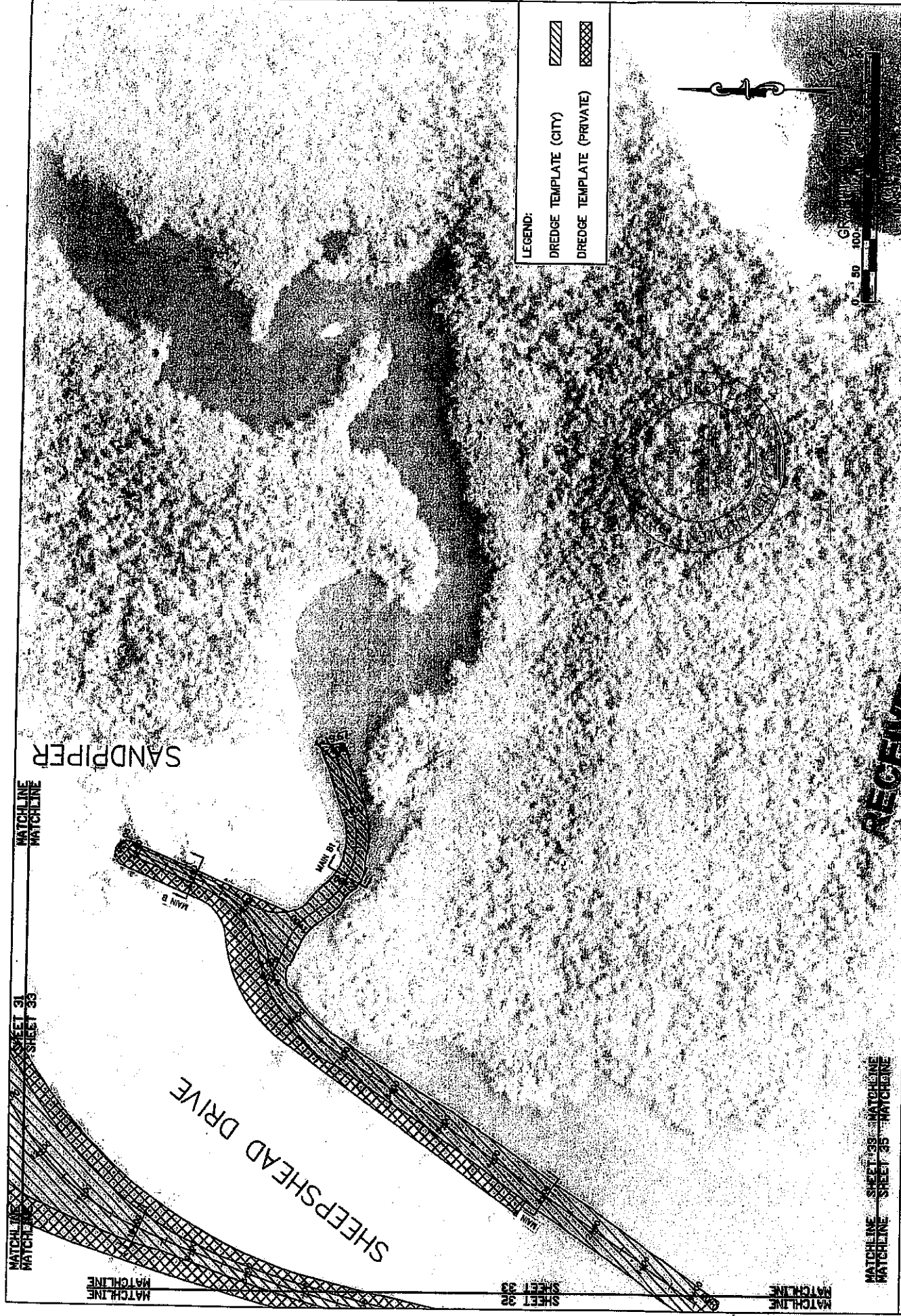
TROUT CT

LEGEND:  
 DREDGE TEMPLATE (CITY) [diagonal lines]  
 DREDGE TEMPLATE (PRIVATE) [cross-hatch]



<b>RECEIVED</b> U.S. DEPARTMENT OF THE ARMY DISTRICT ENGINEERING PROJECT		SHEET 32 SHEET 40E SHEET 33 SHEET 40G	PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL	ORIGINAL: 1/7/09 DATE:	SHEET 32A09-45 COUNTY OF HILLSBOROUGH
CITY OF NAPLES		PROJECT: ROYAL HARBOR		SHEET NO.	
D.E.P. South District		PROJECT: ROYAL HARBOR		SHEET NO.	
510 West Cypress Street, 5th Fl. Tampa, Florida 33607 PH: (813) 253-7275		PROJECT: ROYAL HARBOR		SHEET NO.	

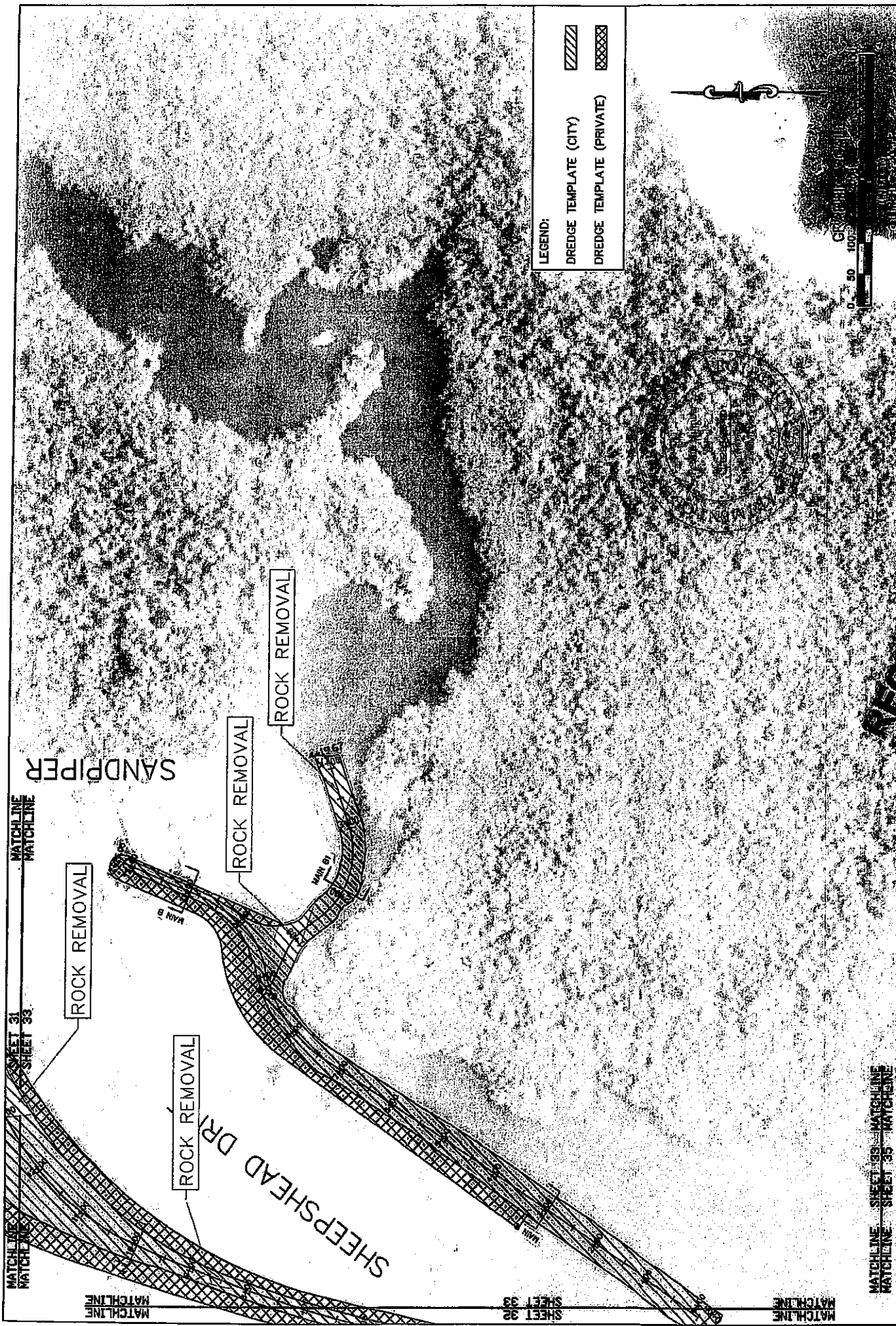






LEGEND:  
 DREDGE TEMPLATE (CITY) [Hatched pattern]  
 DREDGE TEMPLATE (PRIVATE) [Cross-hatched pattern]



MATCHLINE SHEET 32 MATCHLINE MATCHLINE SHEET 35 MATCHLINE		MATCHLINE SHEET 31 MATCHLINE MATCHLINE SHEET 33 MATCHLINE		MATCHLINE SHEET 32 MATCHLINE MATCHLINE SHEET 35 MATCHLINE	
CITY OF NAPLES		COUNTY OF COLLEGE COUNTY		PROPOSED DREDGE TEMPLATE	
PROJECT: U.S. EAST NADAL CANAL IMPROVEMENT PROJECT		DESIGN		DESIGN	
U.S. ARMY CORPS OF ENGINEERS		-6.0 MLW		ROYAL HARBOR	
SOUTH DISTRICT		DATE: 7/27/09		SHEET 330P 45	
3300 Road Center Street, Suite 200 Tampa, Florida 33607 Ph. (813) 223-2275		RECEIVED		CHECKED BY: [Signature] DATE: [Blank]	
<b>PBSJ</b>		RECEIVED		CHECKED BY: [Signature] DATE: [Blank]	



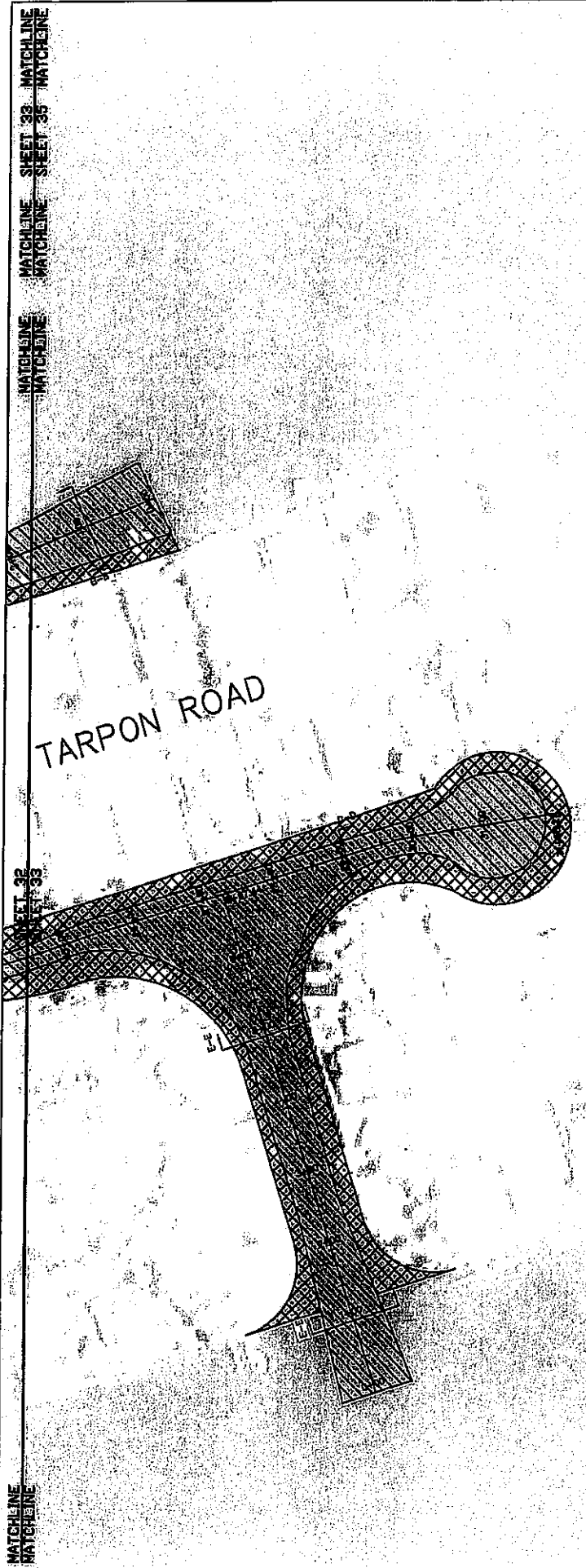
LEGEND:

 DREDGE TEMPLATE (CITY)  
 DREDGE TEMPLATE (PRIVATE)


0 50 100  
 FEET


<b>PBSY</b> 330 East Opines Street, Suite 200 Naples, Florida 34107 Ph. (813) 982-7770	CLIENT CITY OF NAPLES	PROJECT EAST NAPLES BASIN DREDGE PROJECT	WORK PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL	ORIGINAL 4/17/09	DESIGNED BY CHECKED BY DATE	SHEET 33A04945
	MATCHLINE SHEET 33 MATCHLINE MATCHLINE SHEET 35 MATCHLINE	MATCHLINE SHEET 31 MATCHLINE MATCHLINE SHEET 33	MATCHLINE SHEET 32 MATCHLINE MATCHLINE SHEET 33	MATCHLINE SHEET 34 MATCHLINE MATCHLINE SHEET 35	SHEET 32 SHEET 33 SHEET 34 SHEET 35	ROYAL HARBOR

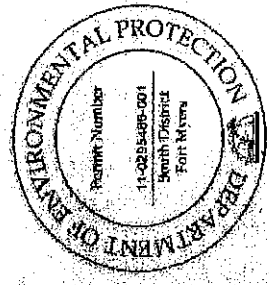
RECEIVED  
 EAST NAPLES BASIN  
 DREDGE PROJECT  
 C.E.P. South District



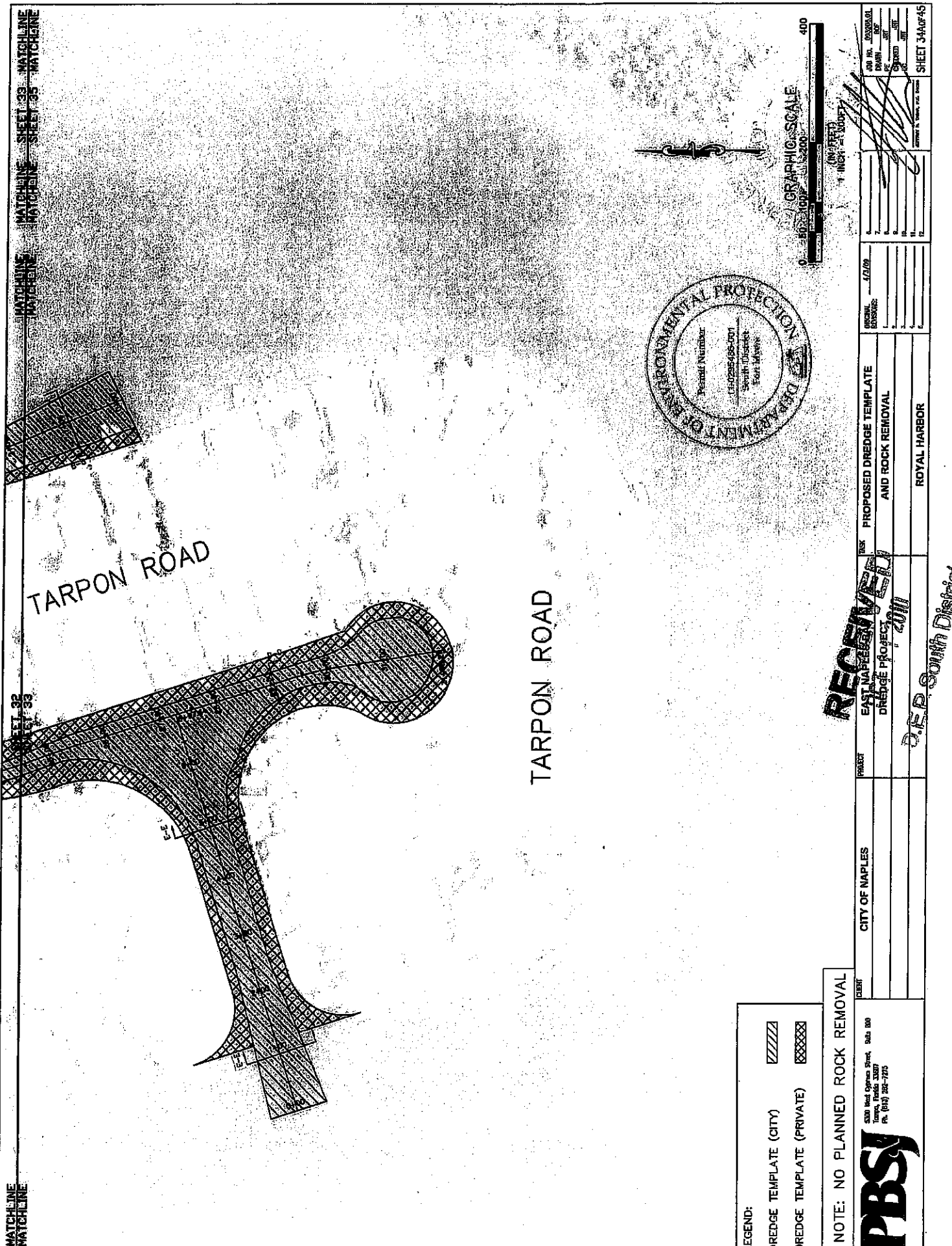
LEGEND:

DREDGE TEMPLATE (CITY) 

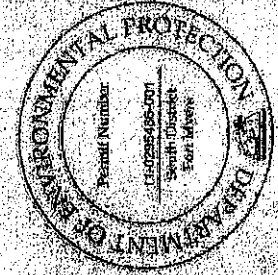
DREDGE TEMPLATE (PRIVATE) 



<b>PBS</b> 2500 West Orange Street, Suite 200 Tampa, Florida 33607 Ph. (813) 255-7253	CITY OF MAPLES PROJECT: DREDGE PROJECT EAST MAPLES DREDGE PROJECT D.E.P. South District	PROPOSED DREDGE TEMPLATE DESIGN -6.0 MLW ROYAL HARBOR	PERMITS 4/2/02 ORIGINAL REVISIONS 1 2 3 4	SHEET 34 OF 45
	RECEIVED OCT 1 2001 D.E.P. South District			SHEET 34 OF 45



MATCHLINE SHEET 33 MATCHLINE SHEET 35 MATCHLINE SHEET 33 MATCHLINE SHEET 35 MATCHLINE SHEET 33 MATCHLINE SHEET 35



LEGEND:  
 DREDGE TEMPLATE (CITY) [diagonal lines]  
 DREDGE TEMPLATE (PRIVATE) [cross-hatch]

NOTE: NO PLANNED ROCK REMOVAL



530 West Orange Street, Suite 200  
 Tampa, Florida 33607  
 Ph. (813) 255-1775

DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
IN CHARGE BY	DATE

PROJECT	PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL
CLIENT	CITY OF NAPLES
DATE	1/2/09
SCALE	AS SHOWN
DRAWN BY	
CHECKED BY	
IN CHARGE BY	

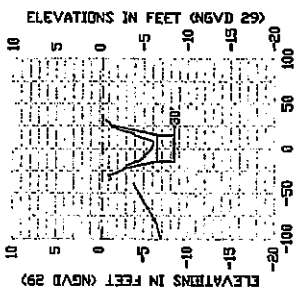
**RECEIVED**  
 EAST NAPLES  
 DREDGE PROJECT  
 1/2/09

D.E.P. South District

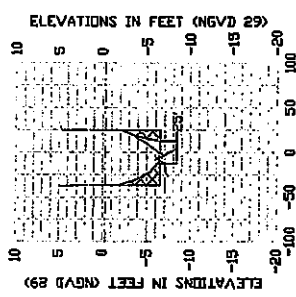
SHEET 34A OF 45



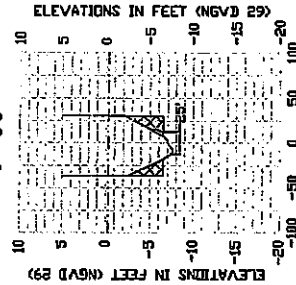
MAIN B1  
2+00



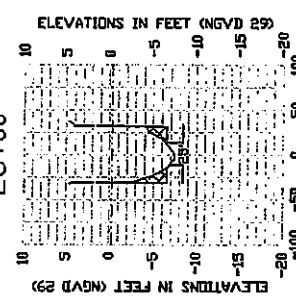
A-A  
17+00



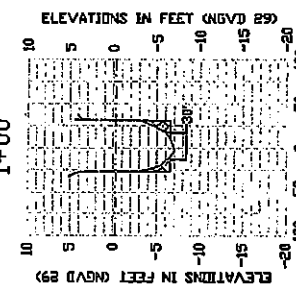
B-B  
9+00



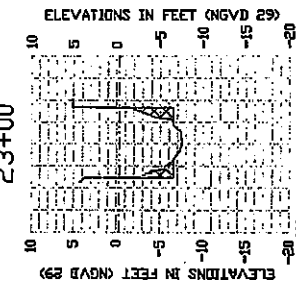
B-B  
28+00



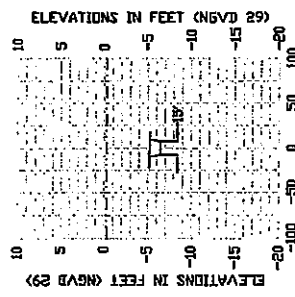
D-D  
1+00



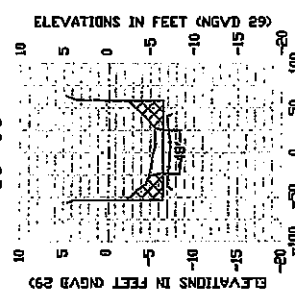
D-D  
23+00



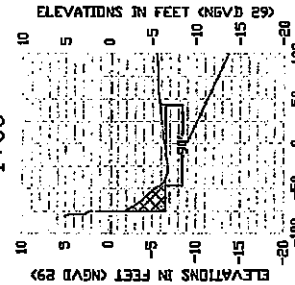
MAIN B  
11+00



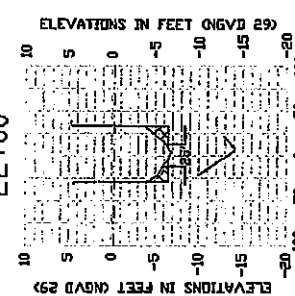
A-A  
10+00



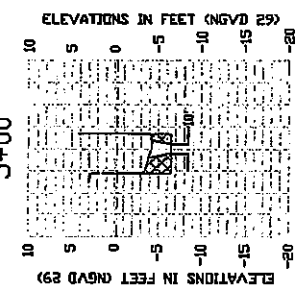
B-B  
1+00



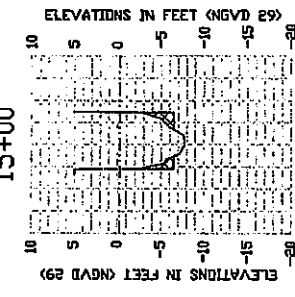
B-B  
22+00



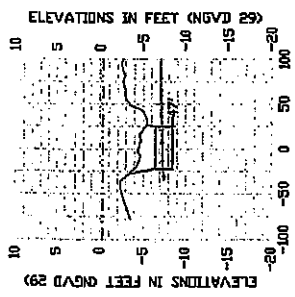
C-C  
5+00



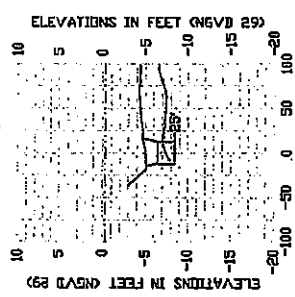
D-D  
15+00



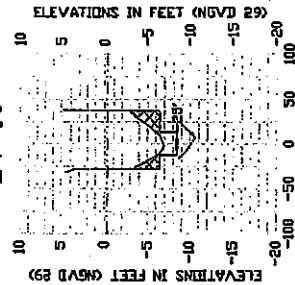
MAIN B  
3+00



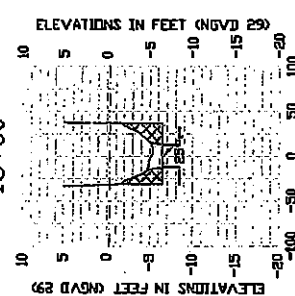
A-A  
3+00



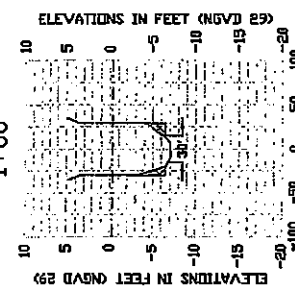
A-A  
24+00



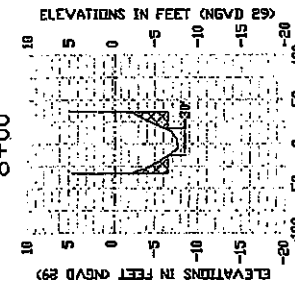
B-B  
16+00



C-C  
1+00



D-D  
8+00



HORIZONTAL SCALE: 1" = 200'  
VERTICAL SCALE: 1" = 20'



2000 Red Ocean Street, Suite 200  
Portsmouth, NH 03877  
Tel: (603) 281-1817

CITY OF MAPLES

PROJECT: EAST MAPLE BRAY  
DREDGING PROJECT

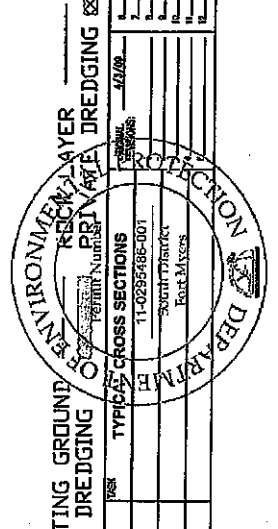
11-0235486-001

10/08

0' M.H.W. - +1.7' NGVD 29

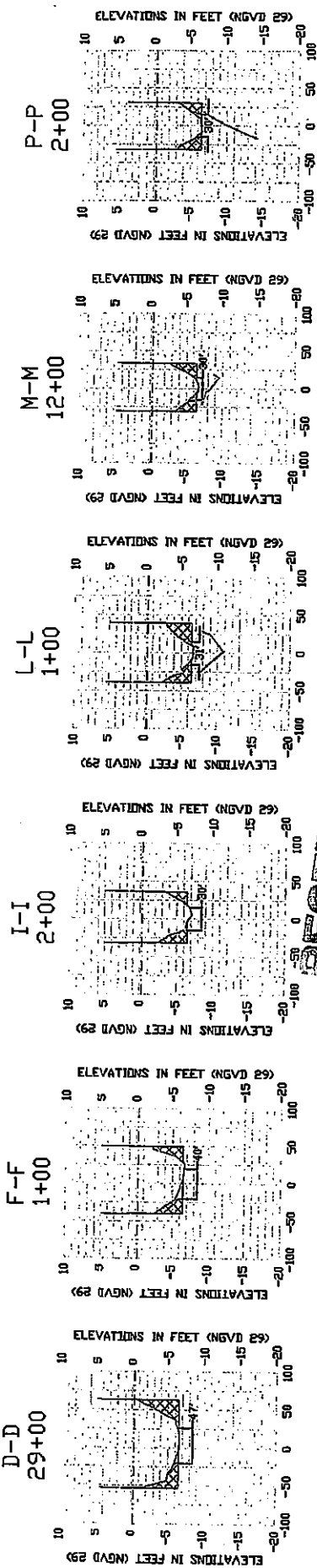
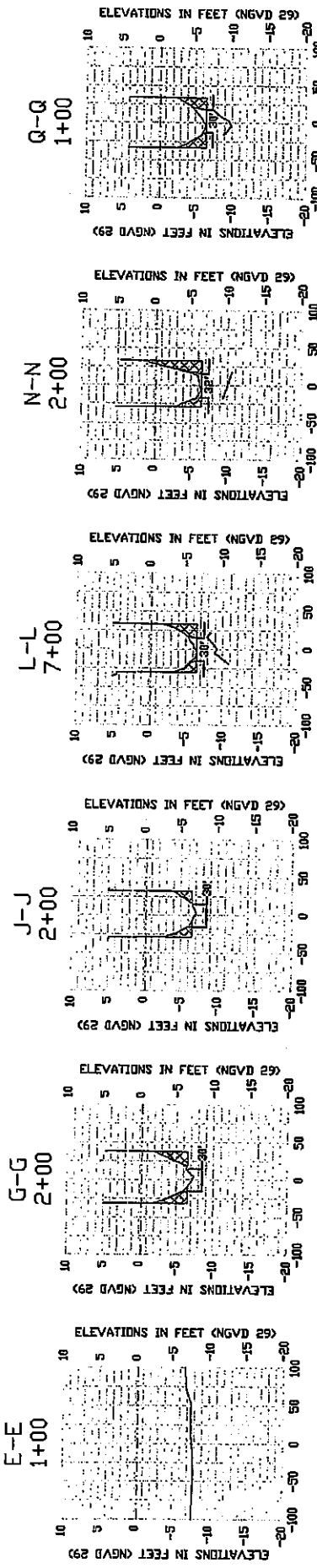
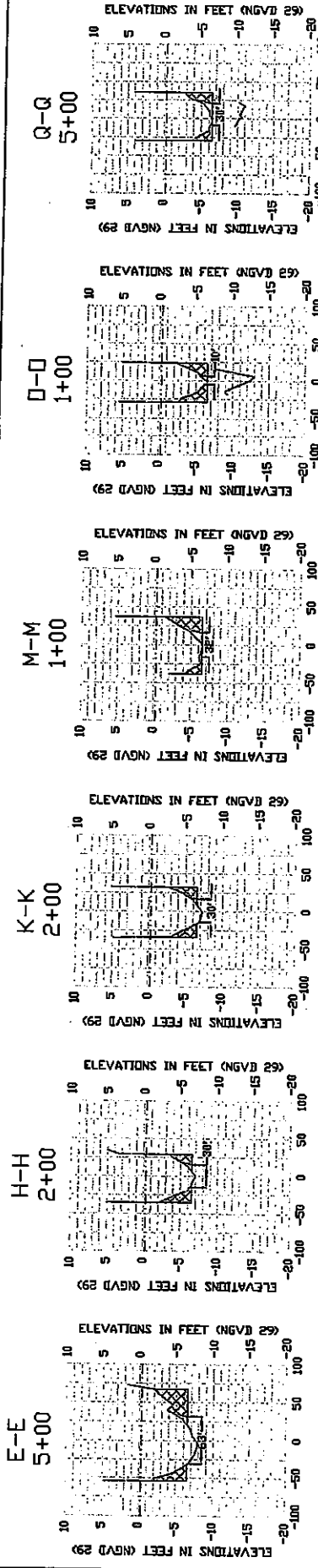
0' M.L.W. - -0.4' NGVD 29

DESIGNED BY: [Signature]  
CHECKED BY: [Signature]  
DATE: [Signature]  
PROJECT NO.: [Signature]  
SHEET 35 OF 45



EXISTING GROUND  
MEAN HIGH WATER (+1.7' NGVD)  
MEAN LOW WATER (-0.4' NGVD)  
RECKONED  
PRELIMINARY  
TYPICAL CROSS SECTIONS  
DREDGING

D.P. South District



**RECEIVED**

MEAN HIGH WATER (+1.7' NGVD 29)  
MEAN LOW WATER (-0.4' NGVD 29)

CITY OF MAPLES  
EAST MAPLES BAY  
DREDGING PROJECT

CITY OF MAPLES  
EAST MAPLES BAY  
DREDGING PROJECT

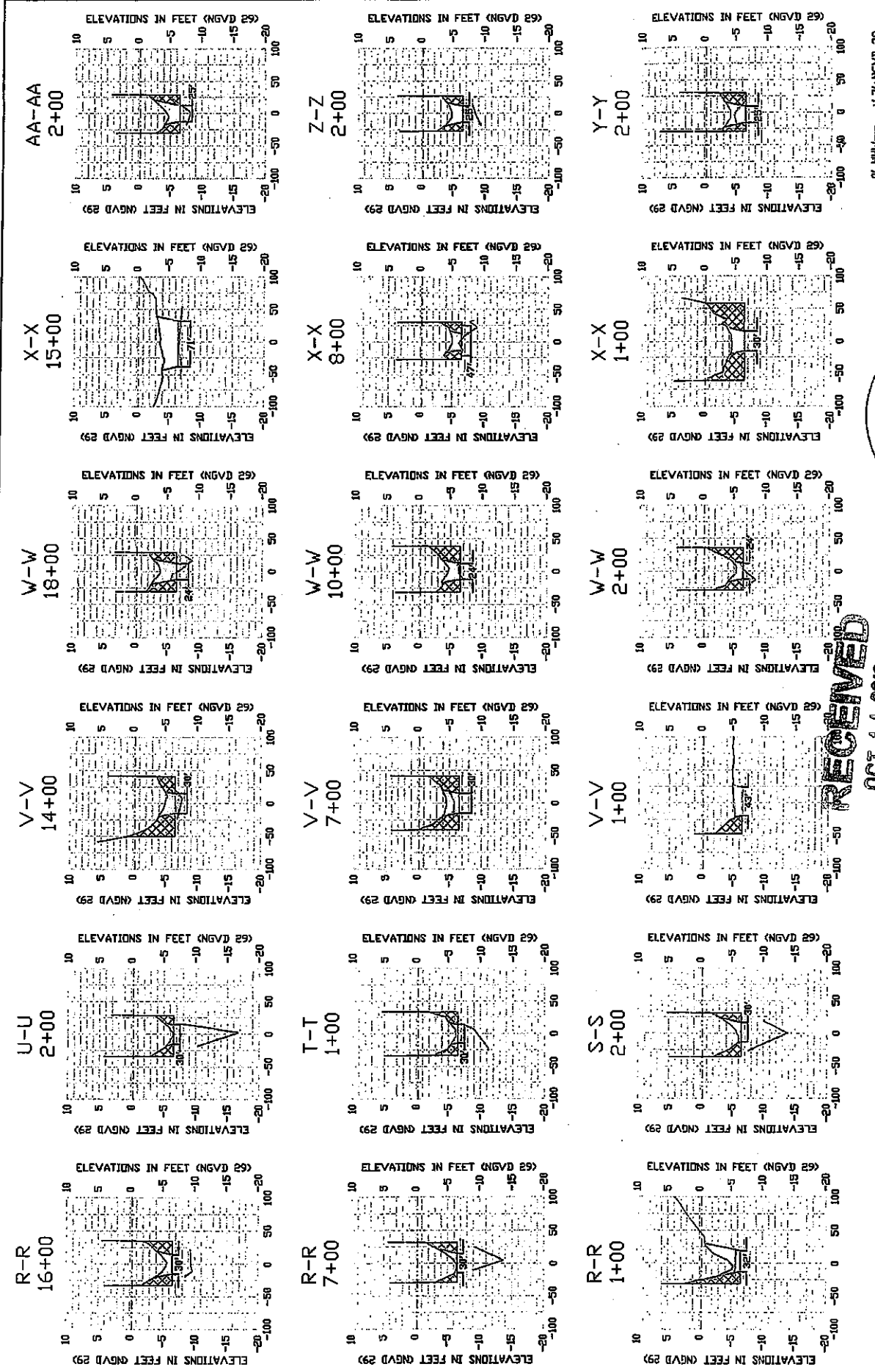
CLIENT: CITY OF MAPLES  
PROJECT: EAST MAPLES BAY DREDGING PROJECT  
JOB NO.: 11-0295486-001  
DATE: 4/2/08

DESIGNED BY: [Signature]  
CHECKED BY: [Signature]

ENVIRONMENTAL PROTECTION DEPARTMENT  
STOCK NUMBER: 11-0295486-001  
JOB NO.: 11-0295486-001  
DATE: 4/2/08  
SHEET 36 OF 45

**PBS&J**

2000 West Orange Street, Suite 200  
Brevard, Florida 32907  
Tel: (813) 220-2776

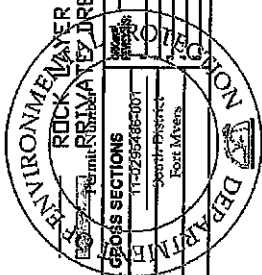


**RECEIVED**  
 OCT 11 2000

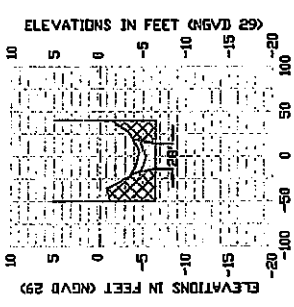
HORIZONTAL SCALE: 1" = 200'  
 VERTICAL SCALE: 1" = 20'  
 MEAN HIGH WATER (1.7' NGVD 29)  
 MEAN LOW WATER (-0.4' NGVD 29)

0' MIN. --- +1.7' NGVD 29  
 0' MIN. --- -0.4' NGVD 29

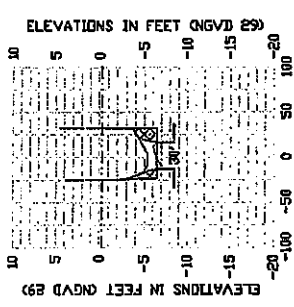
<b>PBS</b> 4300 West Olympic Street, Suite 200 Tacoma, WA 98407 PH: (253) 224-7875	PROJECT: CITY OF MAPLES DREDGING PROJECT	DRAWING NO.: 14279 DATE: 11/22/99	SHEET 37 OF 45
	CLIENT: CITY OF MAPLES CONTRACT NO.: 1142282465001 CONTRACT DESCRIPTION: Port Myles	DESIGNER: ENVIRONMENTAL WATER CONTRACTOR: ROCK SUBCONTRACTOR: PRIVATE DREDGING	CHECKED: [Signature] DATE: [Signature]



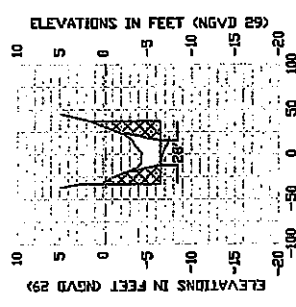
CC-CC  
2+00



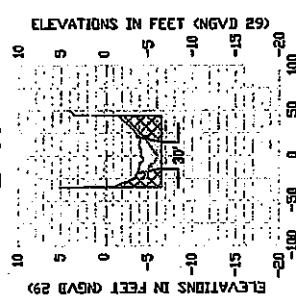
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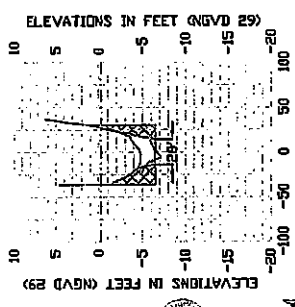
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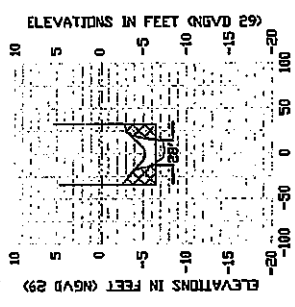
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BB-BB  
2+00



CC-CC  
13+00



RECEIVED  
OCT 11 200

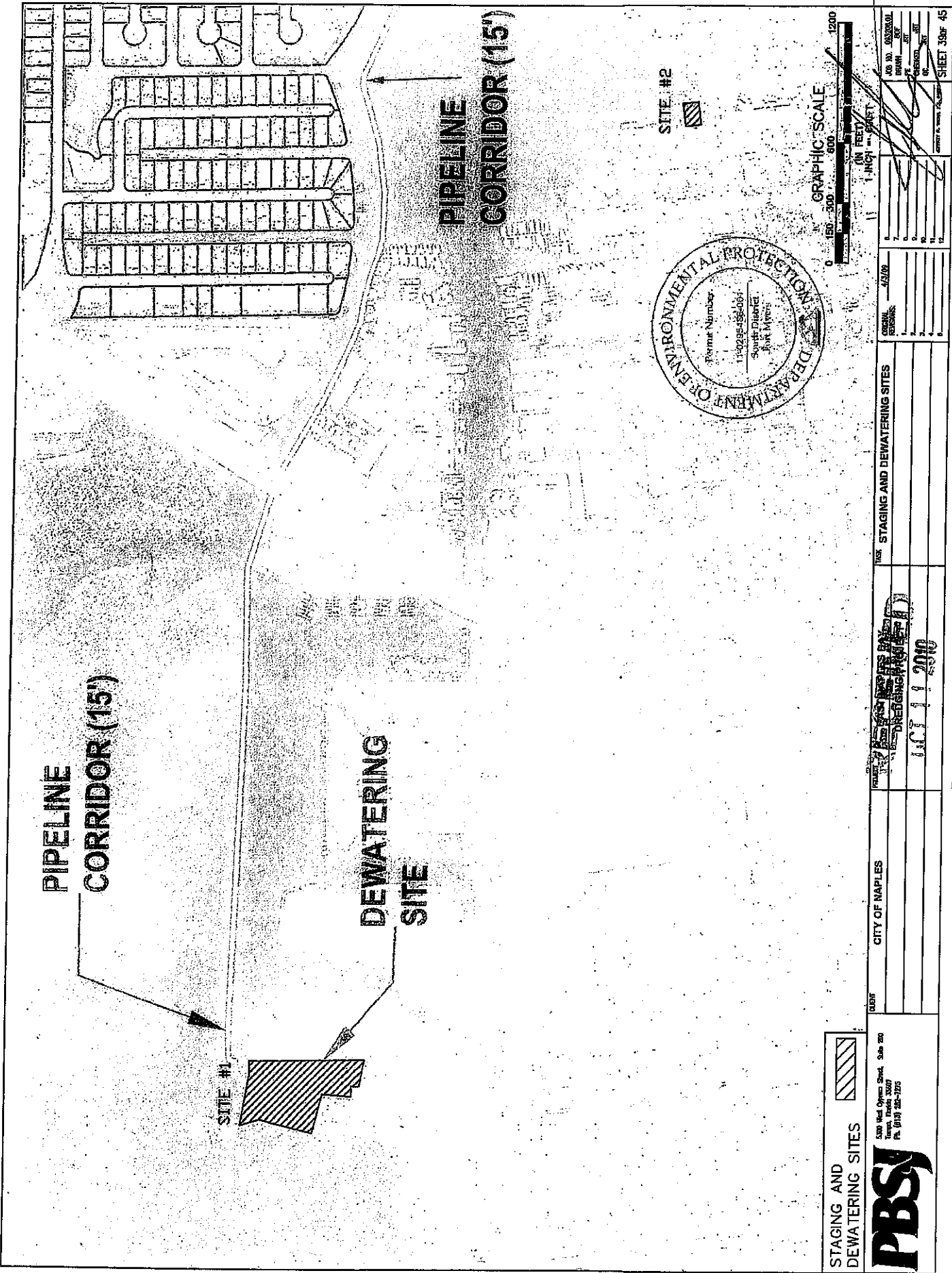
D.E.P. South District

HORIZONTAL SCALE: 1' = 200'  
VERTICAL SCALE: 1' = 20'

MEAN HIGH WATER (1.7' NGVD 29)  
MEAN LOW WATER (-0.4' NGVD 29)

EXISTING GROUND  
CITY DREDGING  
ROCK LAYER  
PRIVATE DREDGING

330 West Orange Street, Suite 200 Tampa, Florida 33607 Ph. (813) 282-7676	CITY OF NAPLES	PROJECT EAST NAPLES BAY DREDGING PROJECT	TASK TYPICAL CROSS SECTIONS	GENERAL REVISIONS 1/2/00	SHEET 36 of 43
	JOB NO. 00000001 DRAWN BY CHECKED BY DATE SCALE TITLE	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12



**STAGING AND DEWATERING SITES**

500 Red Cypress Street, Suite 200  
 Fort Myers, Florida 33907  
 Ph. (813) 265-1225

**PBSy**

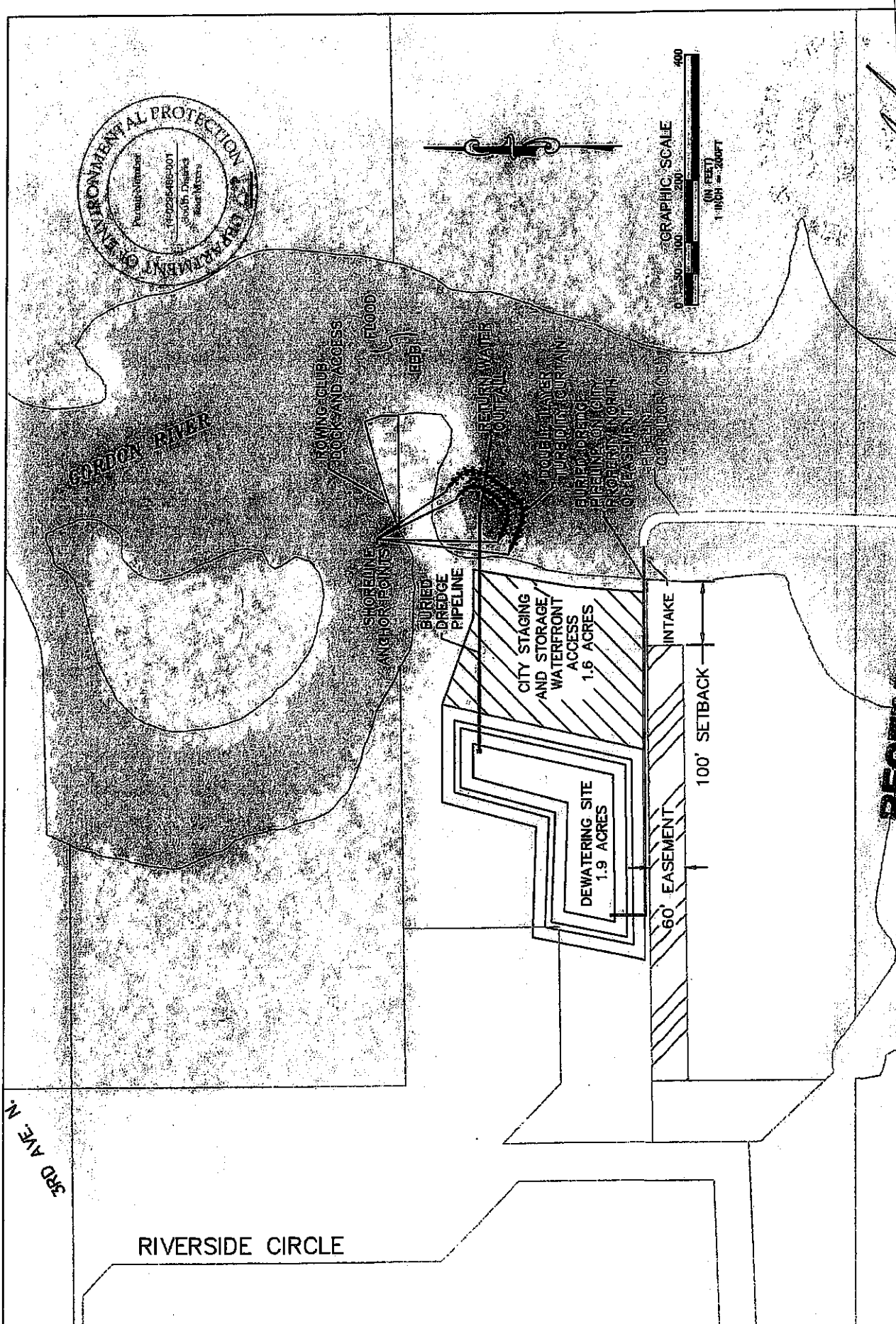
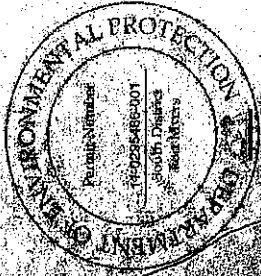
DATE	CITY OF NAPLES	PROJECT	STAGING AND DEWATERING SITES
		PROJECT NO.	42/28
		DATE	10/11/2010
		BY	[Signature]
		FOR	[Signature]

NO.	DATE	REVISION
1		
2		
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9		
10		
11		
12		

D.E.P. South District

3RD AVE N.

RIVERSIDE CIRCLE



DES. NO.	2020001
DATE	07/11/00
BY	SP
CHECKED	SP
DATE	07/11/00
SCALE	AS SHOWN
SHEET NO.	45
TOTAL SHEETS	45

NO.	1
DESCRIPTION	
NO.	2
DESCRIPTION	
NO.	3
DESCRIPTION	
NO.	4
DESCRIPTION	
NO.	5
DESCRIPTION	
NO.	6
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NO.	42
DESCRIPTION	
NO.	43
DESCRIPTION	
NO.	44
DESCRIPTION	
NO.	45
DESCRIPTION	

SITE #1	STAGING AND HYDRAULIC DREDGE
	DEWATERING SITE

**RECEIVED**  
CITY OF NAPLES  
DREDGING PROJECT  
2000



CITY OF NAPLES

3400 1st Street, S.W.  
Naples, FL 34102  
PH: (813) 435-3733

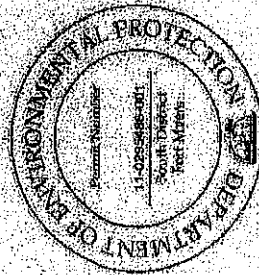


G.E.P. South District

**LEGEND**

- OBSERVED OYSTER BEDS 
- TURBIDITY CURTAIN 

**NOTES:**  
 1. WHEN THE DREDGE TEMPLATE EXTENDS BEYOND THE MOUTH OF THE CANAL WHERE THE TURBIDITY CURTAIN IS LOCATED, THE DREDGE/BARGE WILL BE SURROUNDED BY A FLOATING TURBIDITY CURTAIN. (SHEET 44)  
 2. TURBIDITY CURTAIN MAY MOVE UP AND DOWN CANALS AS NECESSARY TO ALLOW FOR CONTINUED FLOW OF VESSEL TRAFFIC.  
 3. TURBIDITY CURTAINS WILL MAINTAIN A TEN (10) FOOT BUFFER FROM OBSERVED OYSTER BEDS.



TRAIL

SHORELINE ANCHOR PT.

SHORELINE ANCHOR PT.

CURLEW AVENUE

SHORELINE ANCHOR PT.

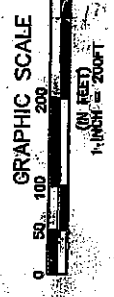
SHORELINE ANCHOR PT.

OSPREY AVENUE

SHORELINE ANCHOR PT.

SHORELINE ANCHOR PT.

SANDPIPER STREET



MATCHLINE

Pelican **REMOVED** SHEET 40A SHEET 40B

CITY OF NAPLES

1530 Red Osprey Street, Suite 200  
 Naples, Florida 34107  
 Ph. (813) 282-7975



PROJECT: EAST NAPLES RAY  
 PREPARED BY: Engineering Project  
 DATE: 09/06  
 TURBIDITY CURTAIN DETAILS  
 GOLDEN SHORES

NO.	DATE	BY	REVISION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

D.E.P. South District

SHEET 40A/P45

LEGEND

OBSERVED OYSTER BEDS

TURBIDITY CURTAIN

NOTES:

- 1. WHEN THE DREDGE TEMPLATE EXTENDS BEYOND THE MOUTH OF THE CANAL WHERE THE TURBIDITY CURTAIN IS LOCATED, THE DREDGE/BARGE WILL BE SURROUNDED BY A FLOATING TURBIDITY CURTAIN. (SHEET 44)
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PELICAN AVENUE

SHORELINE ANCHOR PT.

SHORELINE ANCHOR PT.

LITTLE NECK CT

SHORELINE ANCHOR PT.

SHORELINE ANCHOR PT.

SHORELINE ANCHOR PT.

SHORELINE ANCHOR PT.

CLAM CT

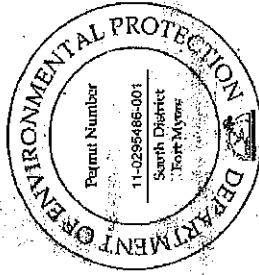
SHORELINE ANCHOR PT.

BLUE POINT AVENUE

SHORELINE ANCHOR PT.

CHERRY STONE CT

CHESAPEAKE AVENUE



GRAPHIC SCALE



(IN FEET)

MATCHLINE 1 INCH = 200 FT.

MATCHLINE

500 West Orange Blvd., Suite 200  
Naples, Florida 34107  
Tel. (813) 426-7200



CITY OF NAPLES

DREDGING PROJECT

D.E.P. South District

TURBIDITY CURTAIN DETAILS

OYSTER BAY

DESIGN REVISIONS

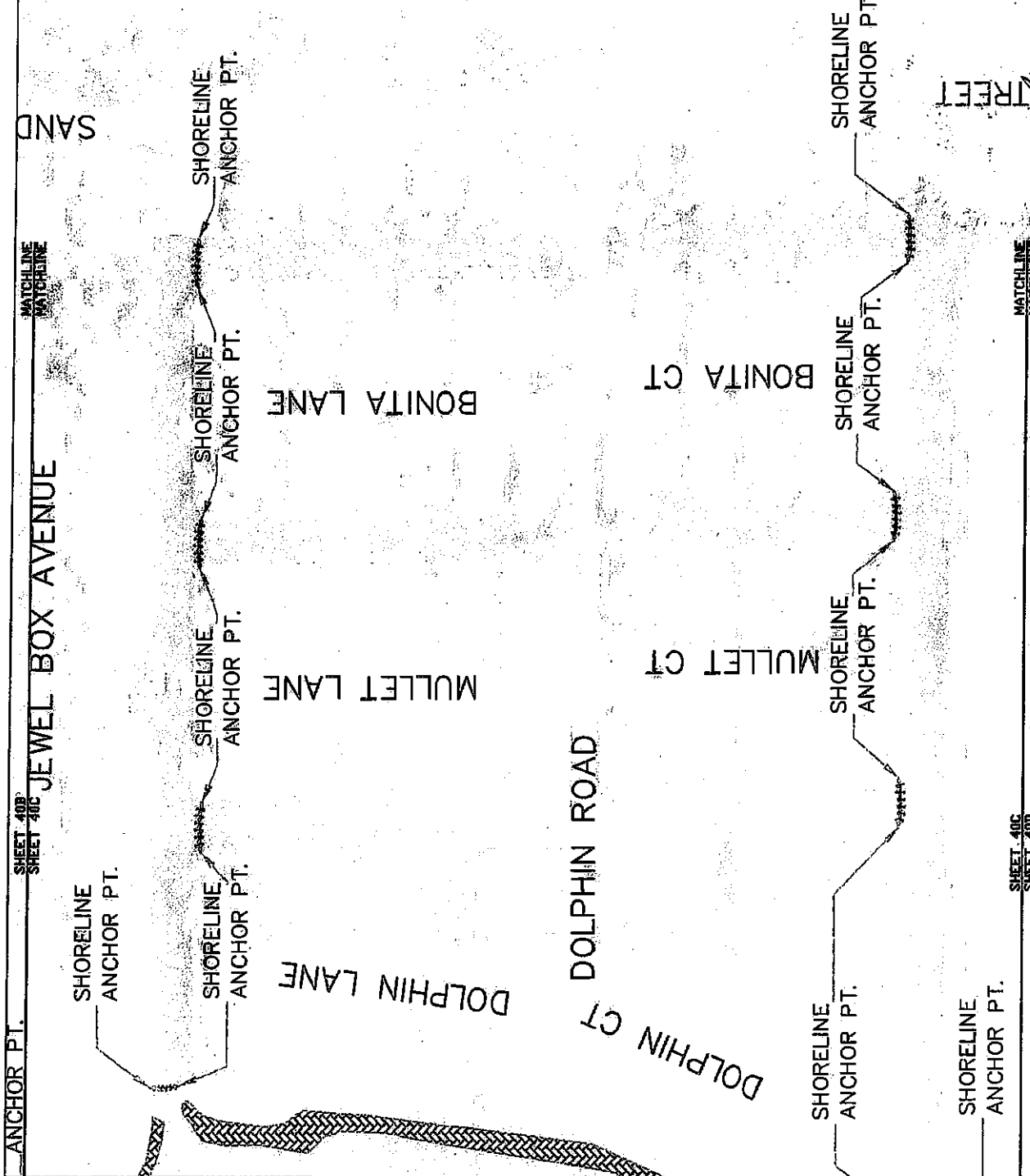
DATE

MATCHLINE

DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

SHEET 40B OF 45

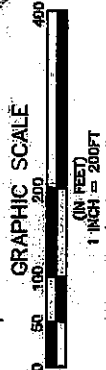
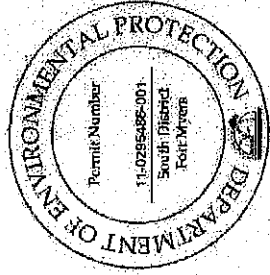




**LEGEND**

- OBSERVED OYSTER BEDS
- TURBIDITY CURTAIN

**NOTES:**  
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SHEET 40C  
SHEET 400

SHEET 40B  
SHEET 400

3000 West Cypress Street, Suite 200 Beach, Florida 33507 Ph. (910) 282-7250 <b>PBS&amp;J</b>	PROJECT CITY OF MAPLES	EAST NAPLES BAY DREDGING PROJECT	USE TURBIDITY CURTAIN DETAILS ROYAL HARBOR	ORIGINAL DATE: 4/2/06	SHEET NO. - 400/400 DRAWN BY - PC - CHECKED BY - DATE -	SHEET 400 OF 45
	PROJECT CITY OF MAPLES	EAST NAPLES BAY DREDGING PROJECT	USE TURBIDITY CURTAIN DETAILS ROYAL HARBOR	ORIGINAL DATE: 4/2/06	SHEET NO. - 400/400 DRAWN BY - PC - CHECKED BY - DATE -	SHEET 400 OF 45

MATCHLINE  
MATCHLINE

SHEET 400  
SHEET 400

MARLIN DRIVE

SHORELINE  
ANCHOR PT.

SHORELINE  
ANCHOR PT.

KINGFISH ROAD

SHORELINE  
ANCHOR PT.

SHORELINE  
ANCHOR PT.

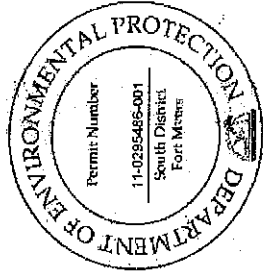
COBIA CT

SHORELINE  
ANCHOR PT.

SHORELINE  
ANCHOR PT.

WAHOO CT

SHORELINE  
ANCHOR PT.

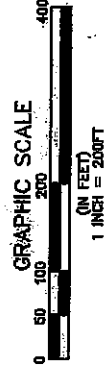


BLUETIN CT

SNOOK DRIVE

SHORELINE  
ANCHOR PT.

SNOOK DRIVE



MATCHLINE  
MATCHLINE

SHEET 400  
SHEET 400

RECEIVED  
OCT 28 2010  
DREDGING PROJECT  
D.E.P. South District

MATCHLINE  
MATCHLINE

SHEET 400  
SHEET 400

MATCHLINE  
MATCHLINE

**PBS**  
6300 West Orange Street, Suite 200  
Tampa, Florida 33607  
Ph. (813) 282-7225

CITY OF MAPLES

PROJECT OCT 28 2010

TURBIDITY CURTAIN DETAILS

ROYAL HARBOR

DATE: 11/2/09

1	DESIGNED BY	DATE
2	DRAWN BY	DATE
3	CHECKED BY	DATE
4	IN CHARGE	DATE
5	SCALE	
6	PROJECT NO.	
7	SHEET NO.	
8	TOTAL SHEETS	
9	DATE	
10	BY	
11	DATE	
12	DATE	

SHEET 400 OF 45

**LEGEND**

OBSERVED OYSTER BEDS [Symbol]

TURBIDITY CURTAIN [Symbol]

**NOTES:**

- WHEN THE DREDGE TEMPLATE EXTENDS BEYOND THE MOUTH OF THE CANAL WHERE THE TURBIDITY CURTAIN IS LOCATED, THE DREDGE/BARGE WILL BE SURROUNDED BY A FLOATING TURBIDITY CURTAIN. (SHEET 44)
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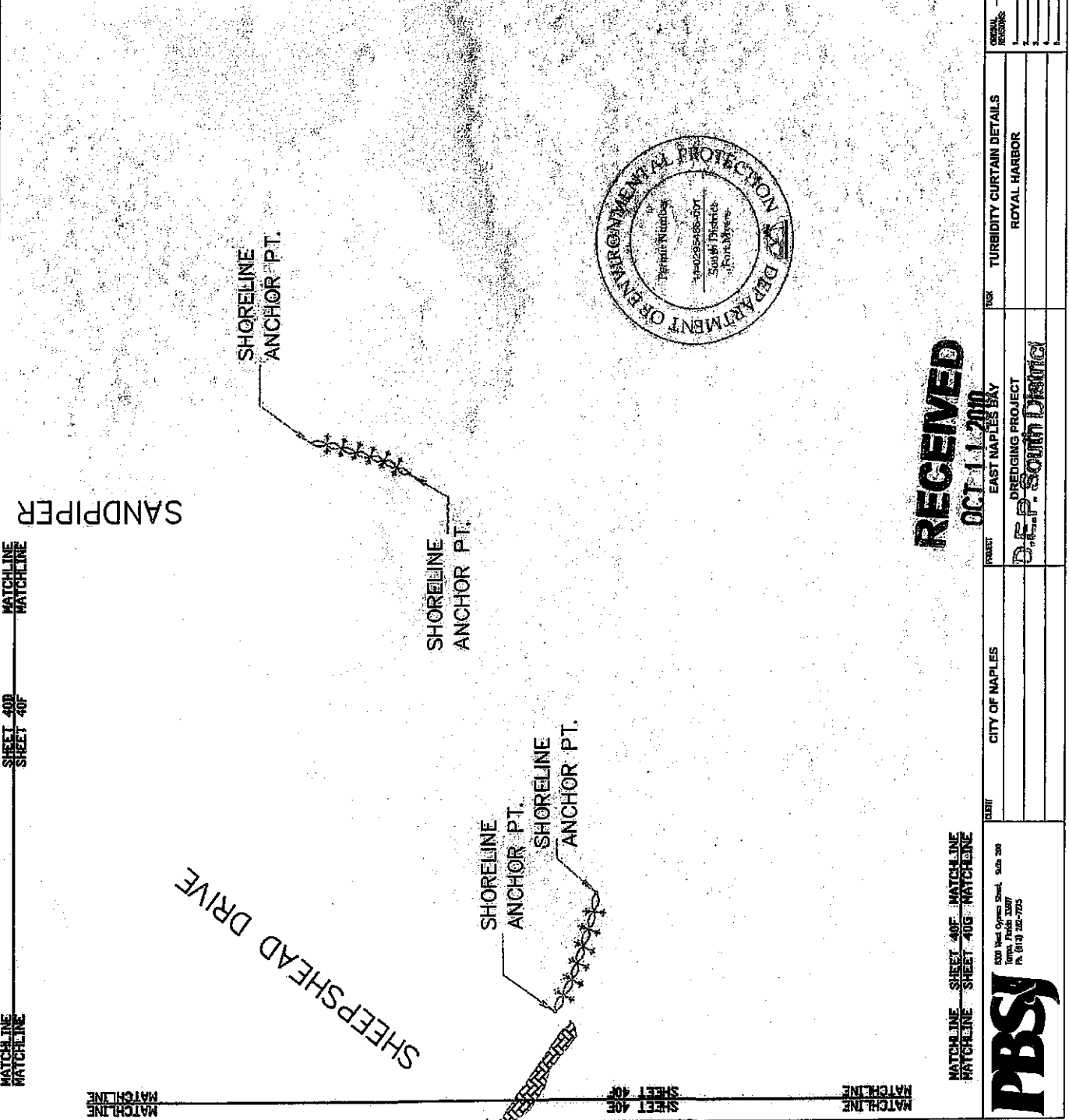
**LEGEND**

OBSERVED OYSTER BEDS

TURBIDITY CURTAIN

**NOTES:**

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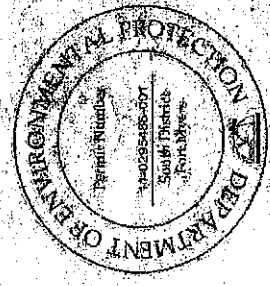
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MATCHLINE SHEET 40F

MATCHLINE SHEET 40F  
MATCHLINE SHEET 40G

MATCHLINE SHEET 40G  
MATCHLINE SHEET 40F

MATCHLINE SHEET 40F  
MATCHLINE SHEET 40G  
MATCHLINE SHEET 40H

**RECEIVED**  
OCT 11 2010  
EAST NAPLES BAY  
PREDICING PROJECT  
D.E.P. South District

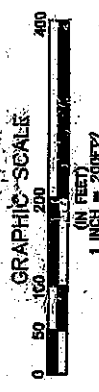
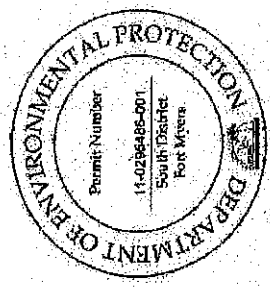


GRAPHIC SCALE  
0 50 100 400  
FEET

PROJECT: CITY OF NAPLES		TURBIDITY CURTAIN DETAILS	
SHEET: EAST NAPLES BAY		ROYAL HARBOR	
DRAWN BY: D.E.P. South District		DATE: 02/06	
APPROVED BY:	DATE:	DESIGNED BY:	DATE:
CHECKED BY:	DATE:	PROJECT MANAGER:	DATE:
SCALE:	DATE:	PROJECT NO.:	DATE:
500 West Cypress Street, Suite 200 Tampa, Florida 33607 PA (813) 252-7925		SHEET 40F OF 45	



MATCHLINE SHEET 406 MATCHLINE SHEET 406 MATCHLINE SHEET 406 MATCHLINE SHEET 406 MATCHLINE SHEET 406 MATCHLINE SHEET 406 MATCHLINE SHEET 406 MATCHLINE SHEET 406 MATCHLINE SHEET 406 MATCHLINE SHEET 406



TARPON ROAD

**RECEIVED**  
 OCT 1 2011  
 EAST NAPLES BAY  
 DREDGING PROJECT  
 U.S. Army Corps of Engineers  
 South District

**LEGEND**

OBSERVED OYSTER BEDS	
TURBIDITY CURTAIN	

**NOTES:**  
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**PBS&J**  
 330 West Cypress Street  
 Fort Myers, FL 33901  
 Phone: (941) 262-7273

CITY OF NAPLES	PROJECT	EAST NAPLES BAY 1 2011	TURBIDITY CURTAIN DETAILS
		DREDGING PROJECT	ROYAL HARBOR
		U.S. Army Corps of Engineers	
		South District	

DATE	4/2/09
DESIGNER	1
CHECKER	2
APPROVER	3
DATE	4/2/09
PROJECT NO.	0022001
DESIGNER	SP
CHECKER	SP
APPROVER	SP
DATE	4/2/09
PROJECT NO.	0022001
DESIGNER	SP
CHECKER	SP
APPROVER	SP
DATE	4/2/09

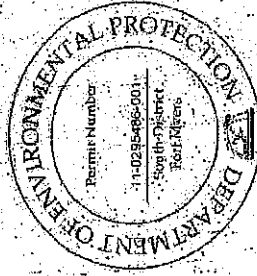
SHEET 406 OF 45

Ø1

Ø2

Ø3

Ø4



BACKGROUND WATER QUALITY SAMPLING LOCATIONS		
STATION	LATITUDE	LONGITUDE
1	26 09.375736	-81 47.089240
2	26 08.750303	-81 47.192993
3	26 07.971241	-81 47.361324
4	26 06.991496	-81 47.130524

BACKGROUND WATER QUALITY SAMPLING STATION ~~Ø~~  
 CITY OF NAPLES  
 EAST NAPLES BAY DREDGING PROJECT  
 PERMITS DIVISION  
 4/14/09

2000 Blvd. Cypress Street, Suite 500  
 Fort Collier, Florida 33507  
 Ph: (813) 265-1275



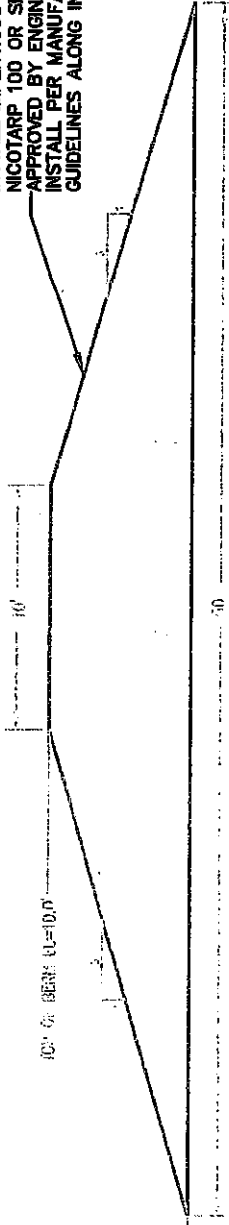
DESIGNED  
 OCT 11 2011  
 D.E.P. South District



DESIGNED	DATE
CHECKED	DATE
APPROVED	DATE
PERMIT	DATE
ISSUED	DATE

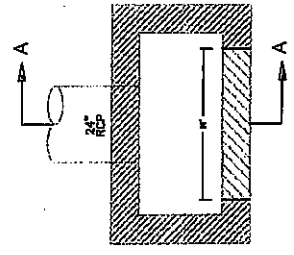
SHEET 40H-45

INSTALL IMPERVIOUS LINER (MIRAF NICOTARP 100 OR SIMILAR) AS APPROVED BY ENGINEER OF RECORD. INSTALL PER MANUFACTURERS GUIDELINES ALONG INTERIOR OF BERM.

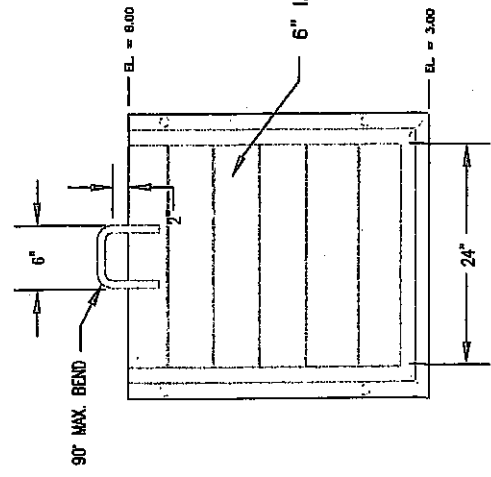


**BERM CROSS SECTION**  
NTS

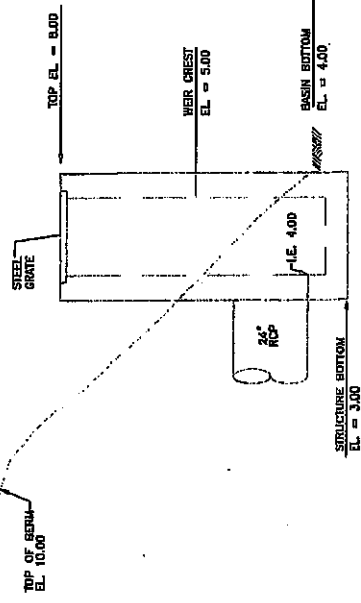
(A)



**PLAN**  
NTS

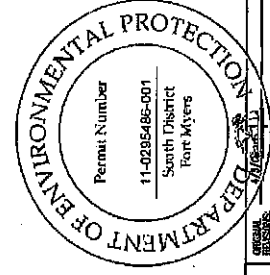


**SURFACE MOUNTED STOP GATE**  
NTS



**SECTION A-A**  
NTS

**SURFACE MOUNTED STOP GATE PLAN DETAIL**  
NTS



**RECEIVED**  
OCT 11 2010  
DISPOSAL SITE CONTROL STRUCTURE  
MODIFIED TYPE "D" DITCH BOTTOM INLET  
D.E.P. South District  
F.D.O.T. INDEX No. 232

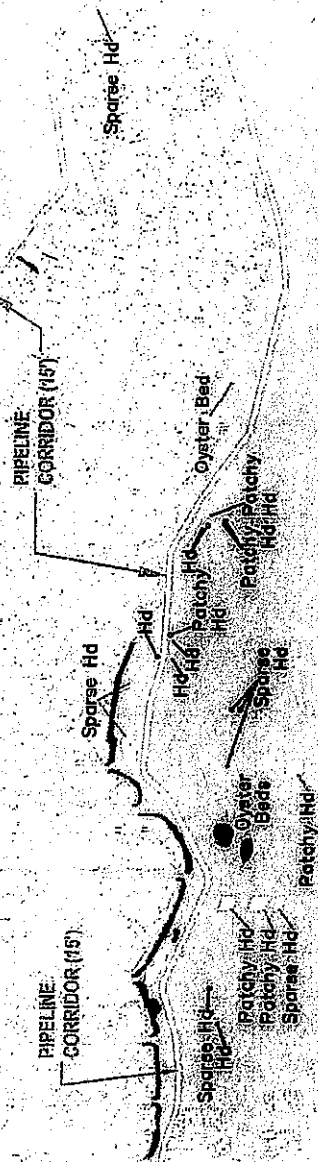
	3000 West Cypress Street, Suite 200 Fort Myers, Florida 33907 Ph. (813) 932-7625	PROJECT: EAST NAPLES BAY DREDGING PROJECT	TASK: DEWATERING SITE BERM CROSS SECTION & CONTROL STRUCTURE DETAILS	AERIALS COLLECTED JANUARY 2007
	CITY OF NAPLES DEPT. OF PUBLIC WORKS	PROJECT: EAST NAPLES BAY DREDGING PROJECT	TASK: DEWATERING SITE BERM CROSS SECTION & CONTROL STRUCTURE DETAILS	AERIALS COLLECTED JANUARY 2007
PERMIT NUMBER: 11-0285485-001 SOUTH DISTRICT FORT MYERS		SHEET 4 OF 45		

**PIPELINE CORRIDOR (15')**

Red Mangroves

NO S.V. RESOURCES FOUND IN THIS AREA PER EGD AND FWRI BENTHIC MAPS

**DEWATERING SITE**



- LEGEND:**
- OBSERVED SEAGRASS
  - OBSERVED OYSTER BEDS
  - HD— HALOPHILA DECIPENS



**RECEIVED**  
CITY OF NAPLES  
JUL 11 2007  
D.E.P. South District

DATE	9/2/08
DESIGNER	
CHECKED	
DATE	
PROJECT	
NO.	
DATE	
SCALE	
SHEET	41A OF 45

**DREDGE PIPELINE CORRIDOR**  
**SUBMERGED AQUATIC VEGETATION**  
MAY 2007 AND AUGUST 2007



PIPELINE  
CORRIDOR (15')

PIPELINE  
CORRIDOR (15')

Sparse Hd

Sparse Hd  
Hd

Patchy Hd  
Patchy Hd  
Sparse Hd

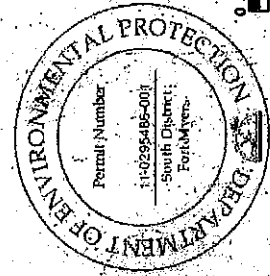
Oyster  
Beds

Patchy Hd

Sparse Hd

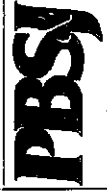
Hd  
Patchy Hd  
Hd

Oyster Bed  
Patchy Patchy  
Hd Hd



LEGEND:  
OBSERVED SEAGRASS  
OBSERVED OYSTER BEDS  
HD - HALOPHILA DECIPENS

500 Mt. Desert Road, Suite 200  
Portsmouth, NH 03870  
PH (603) 281-3375



CITY OF MAPLES

TASK: DREDGE PIPELINE CORRIDOR  
SUBMERGED AQUATIC VEGETATION  
MAY 2007 AND AUGUST 2007

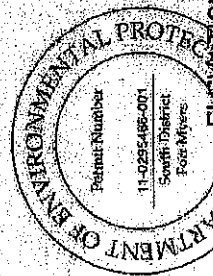
DATE	BY	REVISION

RECEIVED  
OCT 20 2007  
D.E.P. South District



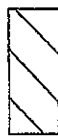

10TH AVENUE SOUTH  
 9TH STREET SOUTH  
 8TH STREET SOUTH  
 11TH AVENUE SOUTH

NAPLES LANDING PARK



ELEVATIONS IN FEET (NGVD 29)  
 SURVEY DATA PROVIDED BY SEWMD, DATED 2004

LEGEND:

 BARGE AREA FOR OFFLOADING  
 DREDGE MATERIAL TO DUMP TRUCKS



630 Red Cypress Blvd. Suite 200  
 Tampa, Florida 33607  
 Ph. (813) 282-7975

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 OCT 11 2004

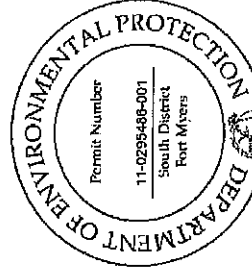
TASK: EAST NAPLES BAY DREDGING PROJECT  
 PLAN VIEW SITE #2  
 STAGION ADN OFFLOADING  
 LOCATION FOR MECHANICAL DREDGING

DATE: 7/22/05  
 CHECKED BY: [Signature]

1	DESIGNED	DATE
2	CHECKED	DATE
3	APPROVED	DATE
4	DATE	

D.E.P. South District  
 SHEET 42 OF 45

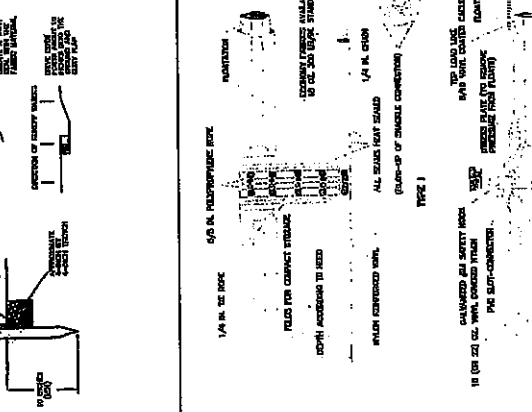
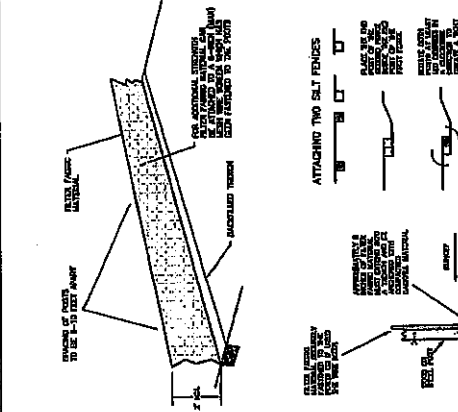
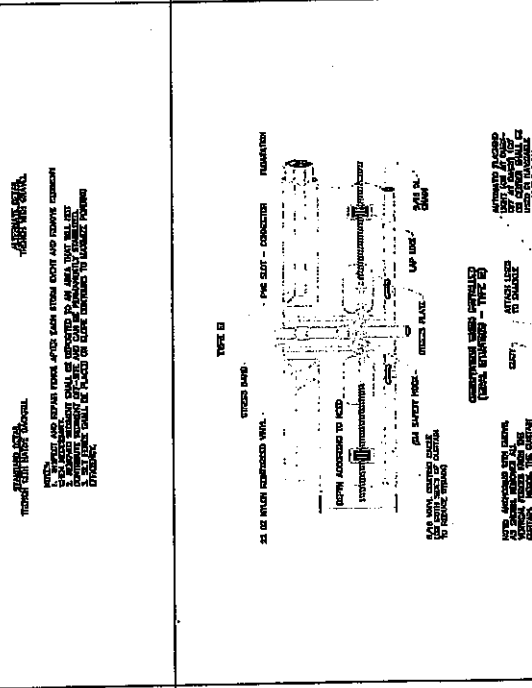
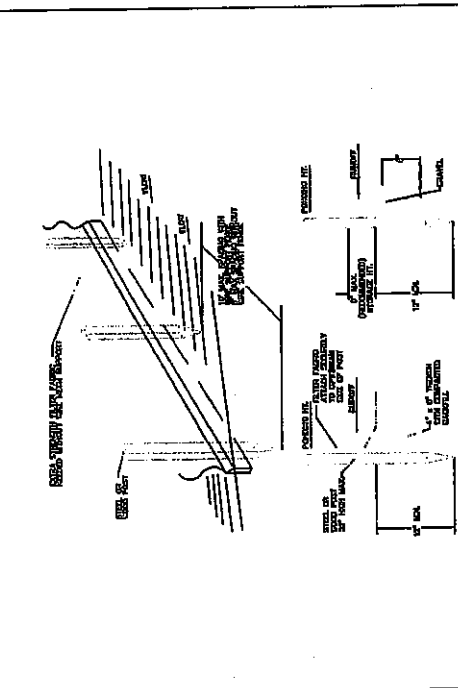
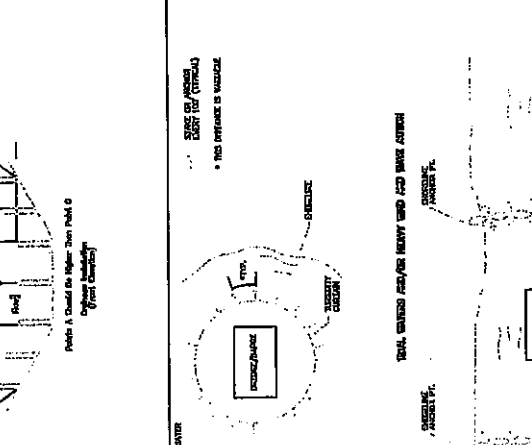
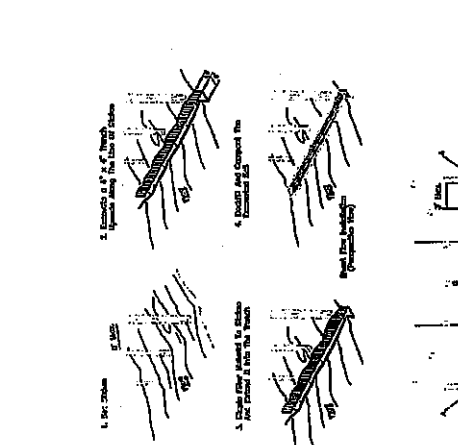
SEE MITIGATION DETAIL SHEET PAGES 1-14



RECEIVED  
OCT 11 2010

D.E.P. South District

300 West Cypress Street Fort Myers, FL 33901 Phone: (813) 282-7876	CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	MITIGATION SITE	DATE	11/9/09	APPROVED BY	[Signature]			
	PROJECT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	MITIGATION SITE	DATE	11/9/09	APPROVED BY	[Signature]			
							DESIGNED BY					
							DRAWN BY					
							CHECKED BY					
							DATE					
							SCALE					
							SHEET	43 OF 45				



NO. 10	10/22/01	DESIGNED	DATE
NO. 11	10/22/01	CHECKED	DATE
NO. 12	10/22/01	APPROVED	DATE
NO. 13	10/22/01	REVISION	DATE
NO. 14	10/22/01	REVISION	DATE
NO. 15	10/22/01	REVISION	DATE
NO. 16	10/22/01	REVISION	DATE
NO. 17	10/22/01	REVISION	DATE
NO. 18	10/22/01	REVISION	DATE
NO. 19	10/22/01	REVISION	DATE
NO. 20	10/22/01	REVISION	DATE

RECEIVED  
OCT 11 2001

D.E.D. South District  
EAST NAPLES BAY DISTRICT  
DREDGING PROJECT

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Permit Number: 1000-1000-0000-0000

CITY OF NAPLES - District

Port Movers

3000 First Colonial Blvd. Naples, FL 34104  
Tel: (813) 782-7274

SHEET 44 OF 45

**General Construction Notes:**

- All elevations refer to the National Geodetic Vertical Datum (1929).
- Heavy Low Water (HLW) and National Geodetic Vertical Datum of 1929 (NGVD 29) are equal to one another for this project area according to benchmarks published on Florida Department of Environmental Protection Land Boundary Information Systems (LAIMS) website.
- The Contractor shall make their own determination of the quantities of work required to complete the construction shown on the plans. The Contractor shall make their own assessment of the site and the work required prior to bidding and any discrepancies, errors or omissions, shall be brought to the attention of the County representative before the bid site date.
- The Contractor is responsible for verifying the location of all underground utilities or other obstacles prior to commencing work at the site. Any utilities or other obstacles damaged during construction shall be repaired at no cost to the County.
- All areas or items outside the limits of construction that are damaged or disturbed by the Contractor shall be restored to their original or better condition at no cost to the County.
- The Contractor shall check plans for conflicts and discrepancies prior to construction. The Contractor shall notify the engineer of record of any conflict before performing any work in the affected area.
- The Contractor is responsible for repairing any damage to existing facilities, above or below ground, which may occur as a result of the work performed by the Contractor at no cost to the County.
- It is the Contractor's responsibility to become familiar with the permit and inspection requirements of the various governmental agencies. The Contractor shall obtain all necessary permits prior to construction and schedule inspections according to agency instructions.
- All specifications and documents referred to shall be of latest revisions one/ or latest edition unless otherwise noted.
- The Contractor is responsible for establishing horizontal and vertical control at the site.
- All work performed shall comply with the regulations and ordinances of the various governmental agencies having jurisdiction over the work.
- Repair and replacement of all private and public property affected by this work shall be restored to a condition of equal to, or better than existing conditions unless specifically exempted by the plans.
- All disturbed areas within the project not designated for improvements are to be restored to original condition or better.
- Contractor shall provide a dust management plan to the engineer and the County for approval prior to initiating construction. Approval of the plan shall not obligate the engineer or the County in any way and shall not elevate the Contractor's responsibility to control fugitive dust.
- Construction traffic shall not impede the safe and efficient use of Riverside Circle and surrounding roadways. Contractor shall follow FDOT Standard Indices 600 and 604 for maintenance of traffic during construction of the temporary construction access connection.
- Contractor shall be responsible for the timely removal of any fugitive dust, sand or debris which may be caused by his actions from the right of way of Riverside Circle.
- Record drawings: The County shall be responsible for having a registered land surveyor to record information on a set of the approved plans concurrently with construction progress following final inspection. One (1) set of the final record drawings shall be submitted to the engineer of record. Record drawings shall comply with the requirements in the scope of work.

**General Construction Notes, Cont'd:**

- Engineer of record is the engineer responsible for the design of the project.  
 Contact Jeffrey R. Tabor P.E.  
 PBSJ, 6300 U.S. Highway 31, Suite 200  
 Tampa, Florida 33634  
 PHONE: 800-471-7275, FAX: 813-286-1207.
- Engineer of record is the engineer hired to observe construction.
- Other contact information will be provided as necessary.

**Safety Notes:**

- It shall be the sole responsibility of the Contractor to comply and enforce all applicable safety regulations. The information herein has been provided for the Contractor's information only and does not imply that the owner, owner's engineer, or engineer of record will inspect and/or enforce safety regulations.
- During the construction and/or maintenance of the project, all safety regulations are to be enforced. The Contractor or Representative shall be responsible for the control and safety of personnel. Labor safety regulations shall conform to the provisions set forth by OSHA in the Federal Register of the Department of Transportation.

**Dewatering Site Construction Notes:**

- Contractor shall provide location, specs, procedures and permits for the dewatering site to the County and Engineer of record for review prior to mobilization.

**Dredge Construction Notes:**

- All work will be completed in accordance with the plans and specifications.
- All work will be completed within designated dredge areas and to designated dredge depths.
- All dredge activity will be conducted during daylight hours from one half-hour after sunrise to one half-hour before sunset.
- The Contractor shall strictly adhere to all manatee regulations.
- The Contractor will observe a ten (10) foot buffer around all docks, natural resources, seawalls and structures.
- Areas where natural resources (seagrass, oysters, etc.) are present will be protected with turbidity barriers maintained throughout the project.

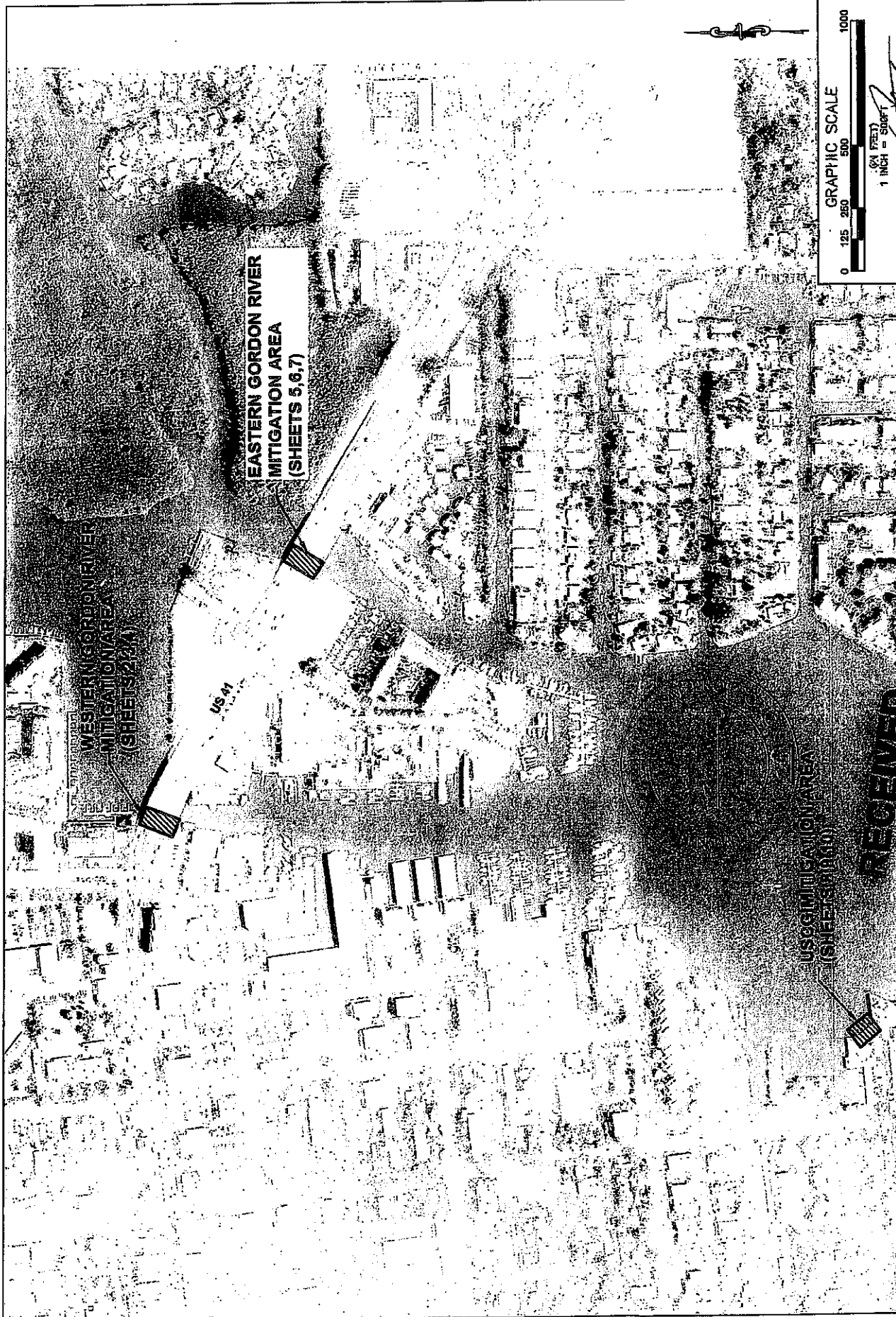
- Turbidity control measures will be properly maintained in compliance with Federal and State Water Quality Standards. If turbidity levels exceed water quality standards, dredging activity will cease until levels return to the acceptable range.
- If turbidity violations occur at the discharge/return-water location of the disposal sites, the Contractor shall be prepared to utilize polymers to reduce turbidity to an acceptable level.
- Final site grading plans shall be determined based on final disposal location(s) and quantities as approved by engineer of record.
- The Contractor will operate in a manner that will cause the least impact to waterway navigation and accommodate local traffic within reason.
- Dredge barges, pipelines, cables, buoys, etc. will be removed from the channel at the completion of each day's work and have working markings/anchor lights to warn vessels of their location.
- Damage to any property, utilities, structures or natural resources shall be repaired or replaced by the Contractor in a timely manner at the Contractor's expense.

**Standard Manatee Construction Conditions**

- The Contractor shall comply with the following manatee protection construction conditions:
- The Contractor shall instruct all personnel associated with the project of the potential presence of manatees and the need to avoid collisions with manatees. All construction personnel are responsible for observing water-related activities for the presence of manatee(s).
  - The Contractor shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972, the Endangered Species Act of 1973, and the Florida Manatee Sanctuary Act.
  - Situation barriers shall be made of material in which manatees cannot become entangled, are properly secured, and are regularly monitored to avoid manatee entrapment. Barriers must not block manatee entry to or exit from essential habitat.
  - All vessels associated with the construction project shall operate at "no wake/die" speeds at all times while in the construction area and while in water where the draft of the vessel provides less than a four foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
  - If manatee(s) are seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure protection of the manatee. These precautions shall include the operation of all moving equipment no closer than 50 feet of a manatee. Operation of any equipment closer than 50 feet to a manatee shall necessitate immediate shutdown of that equipment. Activities will not resume until the manatee(s) has departed the project area of its own volition.
  - Any collision with and/or injury to a manatee should be reported immediately to the FWC hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2560) for North Florida or Vero Beach (1-772-562-3603) in South Florida.
  - Temporary signs concerning manatees shall be posted prior to and during all construction/dredging activities. All signs are to be removed by the Contractor upon completion of the project. A sign measuring at least 3 ft. by 4 ft. which reads "Caution: Manatee Area" will be posted in a location prominently visible to water related construction crews. A second sign should be posted if vessels are associated with the construction, and should be placed visible to the vessel operator. The second sign should be at least 8'-6" by 11" which reads "Caution: Manatee Habitat. Idle speed is required if operating a vessel in the construction area. All equipment must be shutdown if a manatee comes within 50 feet of operation. Any collision with and/or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. The U.S. Fish and Wildlife Service should also be contacted in Jacksonville (1-904-232-2380) for North Florida or Vero Beach (1-772-562-3903) in South Florida."



<p><b>PBSJ</b>                  6300 U.S. Highway 31, Suite 200                  Tampa, Florida 33637                  Ph. (813) 286-1207</p>	<p><b>CITY OF NAPLES</b></p>	<p><b>PERMIT</b>                  DREDGING PROJECT                  EAST NAPLES BARBERS</p>	<p><b>YEAR</b></p>	<p><b>CONSTRUCTION NOTES</b></p>	<p>DATE: 4/20/09</p>	<p>JOB NO. 03320001</p>
					<p>DATE: 4/20/09</p>	<p>PROJECT: 03-2000</p>
<p><b>D.E.P. South District</b></p>				<p>SHEET 400r 45</p>		



<b>PBS&amp;J</b> 6331 South Bay Road, Box 279 Naples, Florida 33957 P.O. Box 122-7723	CLIENT: CITY OF NAPLES	PROJECT: EAST NAPLES BAY BREEDING PROJECT	DATE: 01/13/2011	DRAWN BY: [Signature]	CHECKED BY: [Signature]	DATE: 01/13/11	SHEET 01 OF 14
	PROJECT: WESTERN GORDON RIVER MITIGATION AREA (SHEETS 2,3,4)	PROJECT: EASTERN GORDON RIVER MITIGATION AREA (SHEETS 5,6,7)	PROJECT: USG MITIGATION AREA (SHEETS 10,11)	PROJECT: [Blank]	PROJECT: [Blank]	PROJECT: [Blank]	PROJECT: [Blank]

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 OCT 13 2011  
 D.E.P. South District



GRAPHIC SCALE  
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 (IN FEET)  
 1 INCH = 30 FT

DATE: 10/17/2011  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 SCALE: [Signature]  
 SHEET 02 OF 14

CLIENT: CITY OF MAPLES

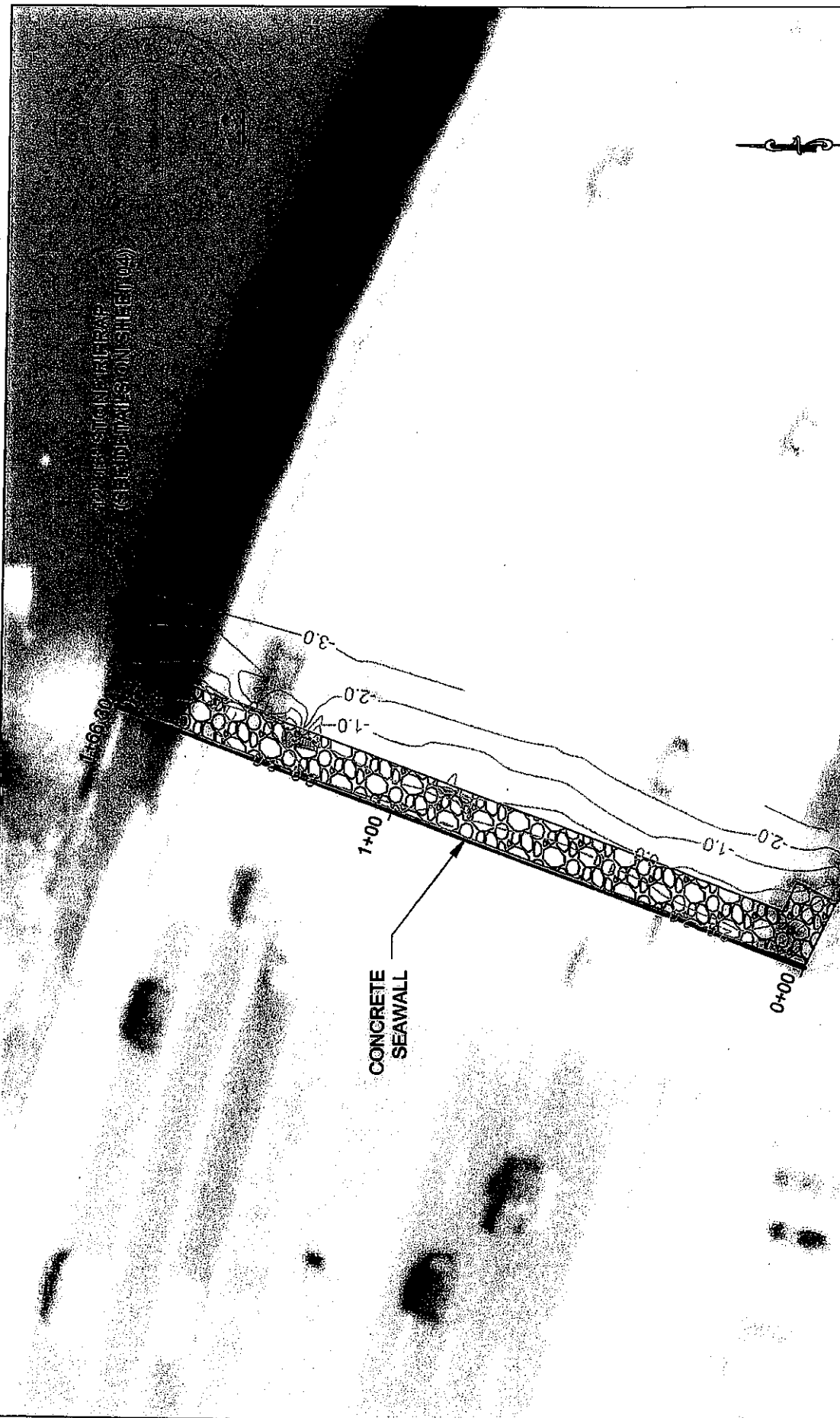
PROJECT: WESTERN GORDON RIVER AREA BATHYMETRIC POINTS

DATE: 10/17/2011

400 West Bay Street, Suite 204, Ft. Worth, Texas 76107  
 Ph: (817) 282-7775

**PBS&J**

D.E.P. South District



**NOTES:**

- ELEVATIONS IN NGVD29
- POINTS REFERENCE EXISTING GROUND BELOW THE US 41 BRIDGE
- ALL WORK TO OCCUR UNDERNEATH US 41 BRIDGE
- AERIAL SHOWN FOR ILLUSTRATION ONLY

430 West Bay Street, Suite 304, St. Pete, Florida 33707  
 Ph. (813) 281-7773

**PBSJ**

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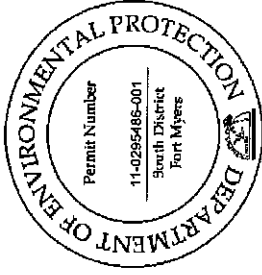
**CITY OF NAPLES**  
 EAST NAPLES BAY  
 BREDDING PROJECT

**WESTERN GORDON RIVER AREA**  
 BATHYMETRIC CONTOURS AND RIPRAP

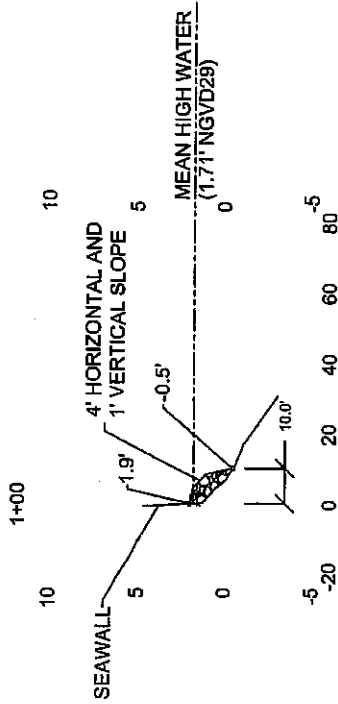
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 SHEET 03 OF 14

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 1 INCH = 30 FT



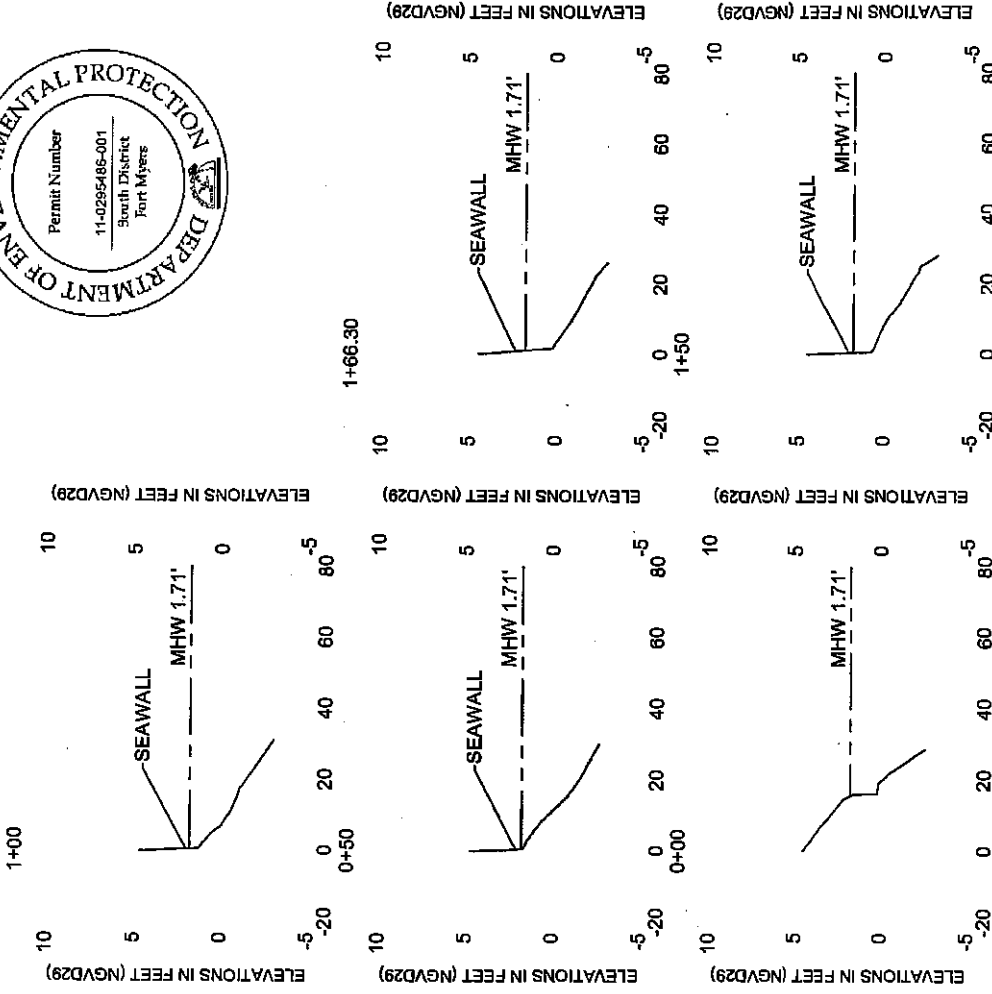
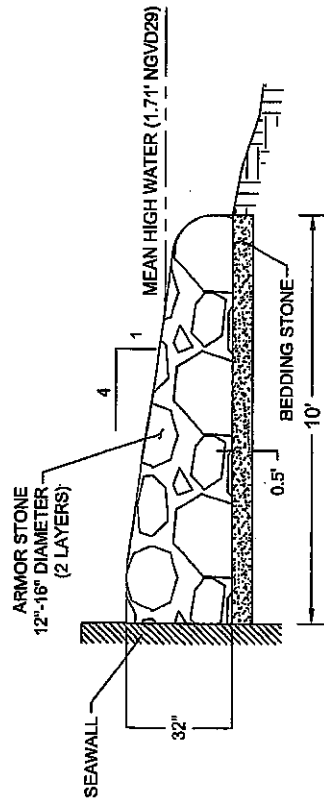


TYPICAL CROSS SECTION



VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

RIPRAP CONSTRUCTION DETAILS

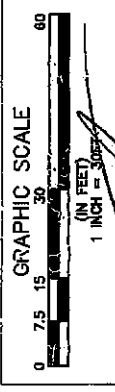
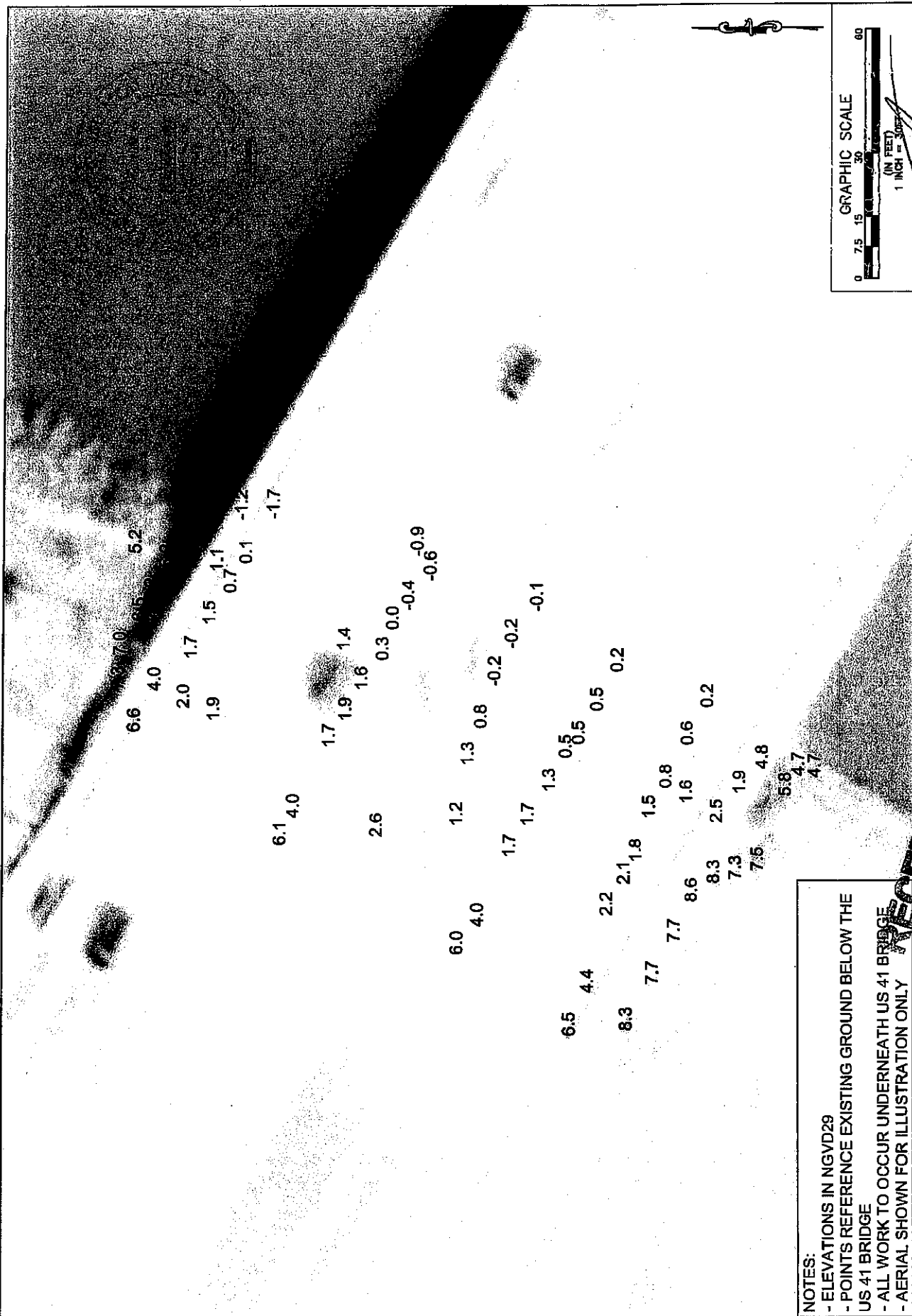


VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

**RECEIVED**  
CITY OF NAPLES  
EAST NAPLES BAY  
DREDGING PROJECT  
D.E.P. South District

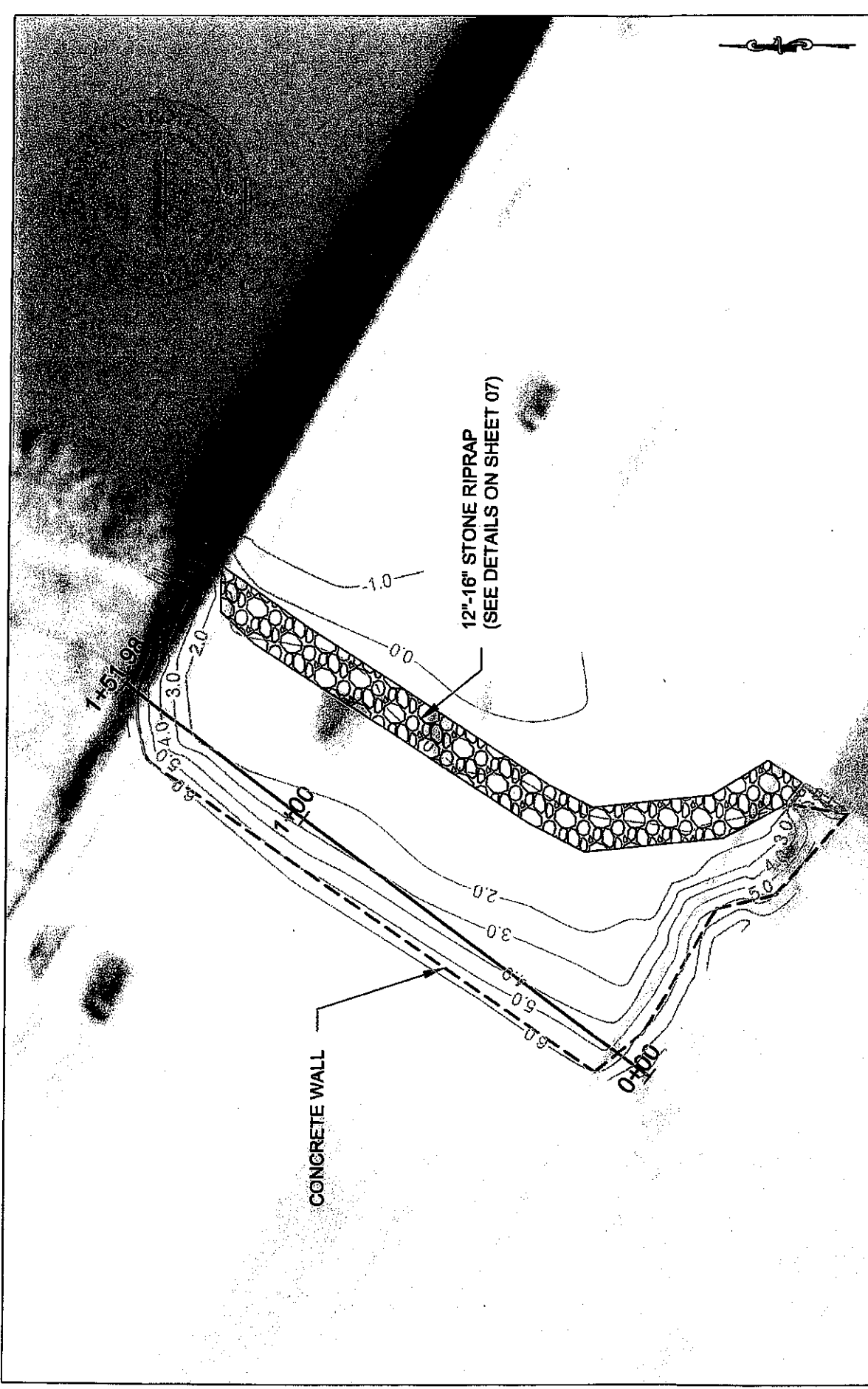


CLIENT	CITY OF NAPLES
PROJECT	EAST NAPLES BAY DREDGING PROJECT
LOCATION	WESTERN GORDON RIVER AREA
SECTION	RIPRAP DETAILS AND CROSS SECTIONS
DATE	8/18/20
DESIGNED BY	
CHECKED BY	
APPROVED BY	
SCALE	
SHEET NO.	04 OF 14



**NOTES:**  
 - ELEVATIONS IN NGVD29  
 - POINTS REFERENCE EXISTING GROUND BELOW THE US 41 BRIDGE  
 - ALL WORK TO OCCUR UNDERNEATH US 41 BRIDGE  
 - AERIAL SHOWN FOR ILLUSTRATION ONLY

	400 West Bay South Blvd. # 700 Tampa, Florida 33607 Ph. (813) 282-7775	CITY OF NAPLES EAST NAPLES BAY DREDGING PROJECT	US EASTERN GORDON RIVER AREA BATHYMETRIC POINTS	SHEET NO. 10010002 DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: [Signature] SCALE: [Signature]	SHEET 05 OF 14
	RECEIVED OCT 11 2010 G.E.P. South District				



GRAPHIC SCALE  
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 (IN FEET)  
 1 INCH = 30 FEET

NO. IN. JOURNAL	
NO. IN. LIST	
CHECKED BY	
DATE	
SHEET 06 OF 14	

12"-16" STONE RIPRAP  
 (SEE DETAILS ON SHEET 07)

CONCRETE WALL

NOTES:  
 - ALL WORK TO OCCUR UNDERNEATH US 41 BRIDGE  
 - AERIAL SHOWN FOR ILLUSTRATION ONLY

**PBS&J**  
 4420 West 1st Street, Suite 404, S. 700  
 Ft. Lauderdale, FL 33309  
 Ph. (954) 226-4723

**RECEIVED**  
 CITY OF NAPLES BAY  
 EAST NAPLES BAY  
 REDGING PROJECT  
 Oct 11 2010

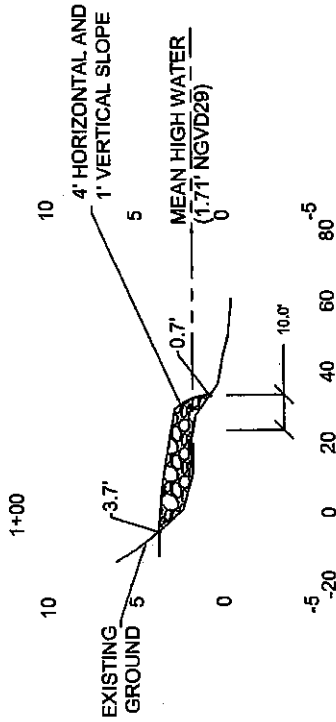
CLIENT

PROJECT  
 EASTERN GORDON RIVER AREA  
 BATHYMETRIC CONTOURS AND RIPRAP

D.E.P. South District

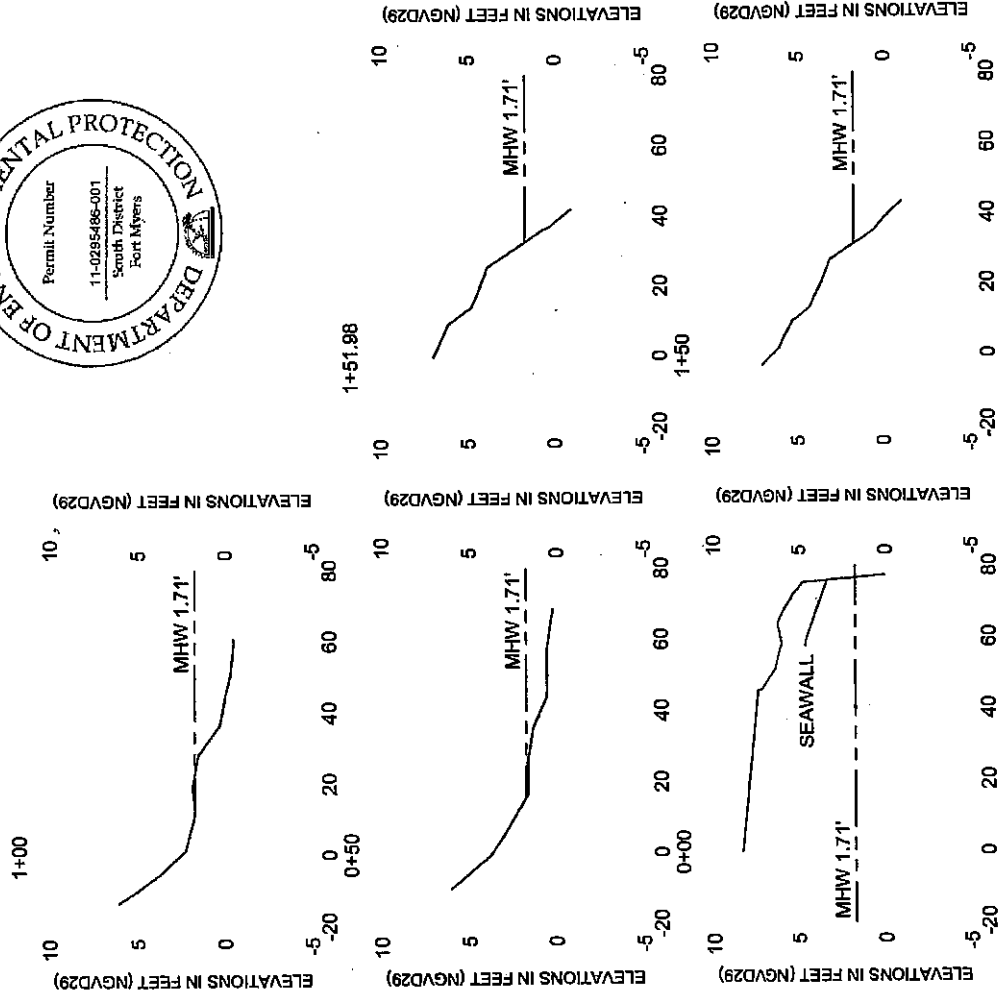
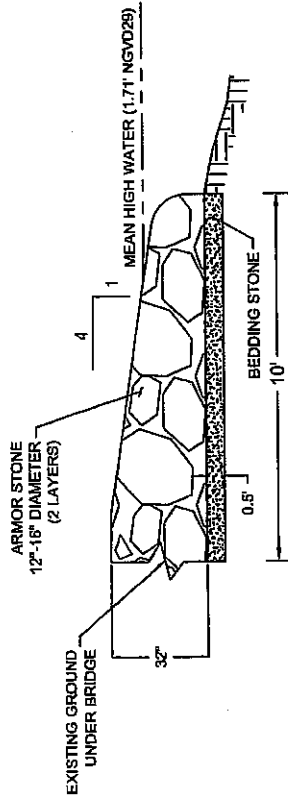


TYPICAL CROSS SECTION



VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

RIPRAP CONSTRUCTION DETAILS



VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

	430 West Bay South Blvd., # 100 Fort Myers, Florida 33907 Ph. (941) 281-7715	SHEET CITY OF NAPLES EAST NAPLES BAY BRIDGING PROJECT	DIST EASTERN GORDON RIVER AREA RIPRAP DETAILS AND CROSS SECTIONS	GENERAL REVISIONS NO. DATE BY 1 2 3 4 5 6 7 8 9 10 11 12	JOB NO. 02001002 DRAWN BY CHECKED BY DATE SHEET 07 OF 14
	<b>RECEIVED</b> OCT 11 2011 N.T.S. D.E.P. South District				



NOTE:  
- ELEVATIONS IN NGVD29



400 Reed Bay Road, Suite 300  
Naples, Florida 34107  
Tel: (813) 261-7775

PROJECT: CITY OF NAPLES, RECEPTION AT NAPLES BAY  
RECEIVING PROJECT

DATE: OCT 11 2011

USCO MITIGATION AREA

BATHYMETRIC POINTS

DATE: 8/30/10

ORIGINAL REVISIONS:

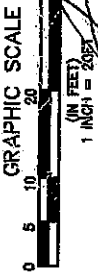
BY: [Signature]

DATE: [Signature]

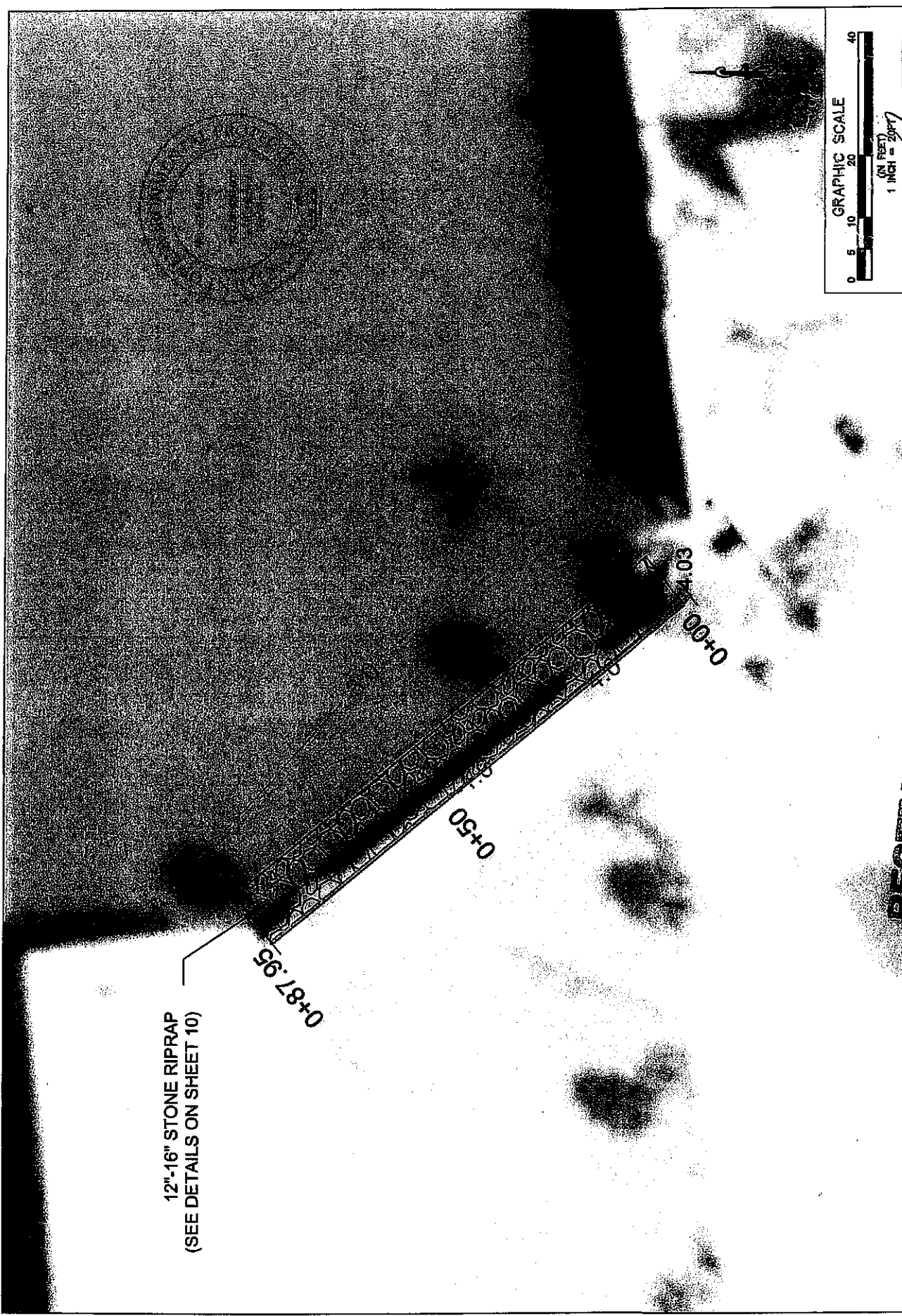
PROJECT NO. 1000100

DATE: 10/11/2011

SHEET 08 OF 14



D.E.P. South District



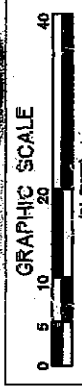
12"-16" STONE RIPRAP  
(SEE DETAILS ON SHEET 10)

0+87.95

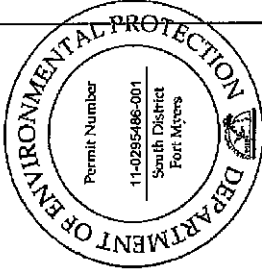
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0+00

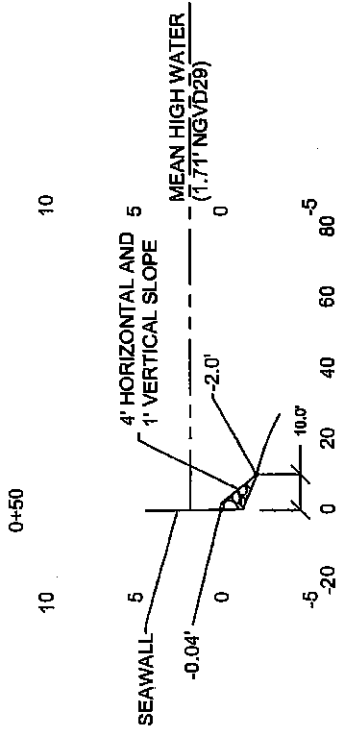
0+4.03



<b>PBS&amp;J</b> 400 West Bay Street, Suite 200 Tampa, Florida 33607 Ph: (813) 282-7125	CLIENT: CITY OF NAPLES	PROJECT: EAST NAPLES BAY EMERGING PROJECT	USE: USCG MITIGATION AREA BATHYMETRIC CONTOURS AND RIPRAP	GENERAL REFERENCE: 1. _____ 2. _____ 3. _____ 4. _____ 5. _____	JOB NO. 19001809 DRAWN: JES CHECKED: JEP DATE: 08/11/2009 SHEET 09 OF 14
	RECEIVED OCT 11 2009	D.E.P. South District	(Signature)		

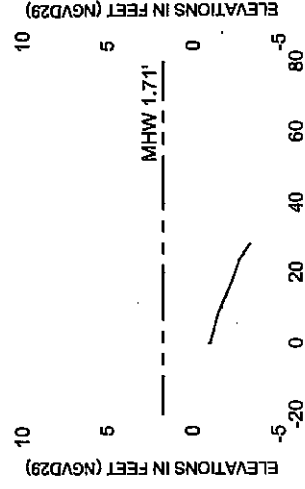
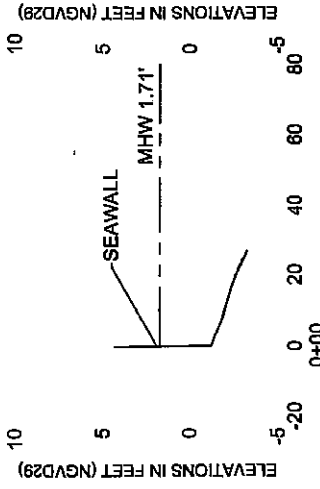
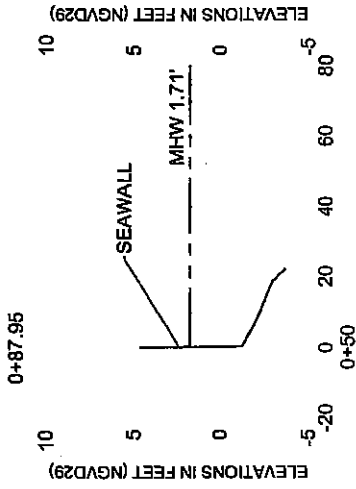
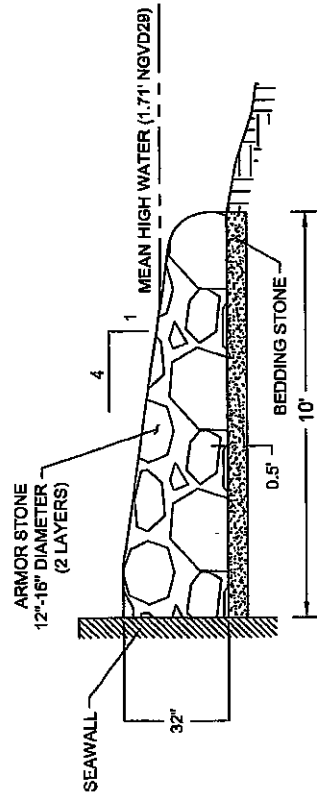


TYPICAL CROSS SECTION



VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

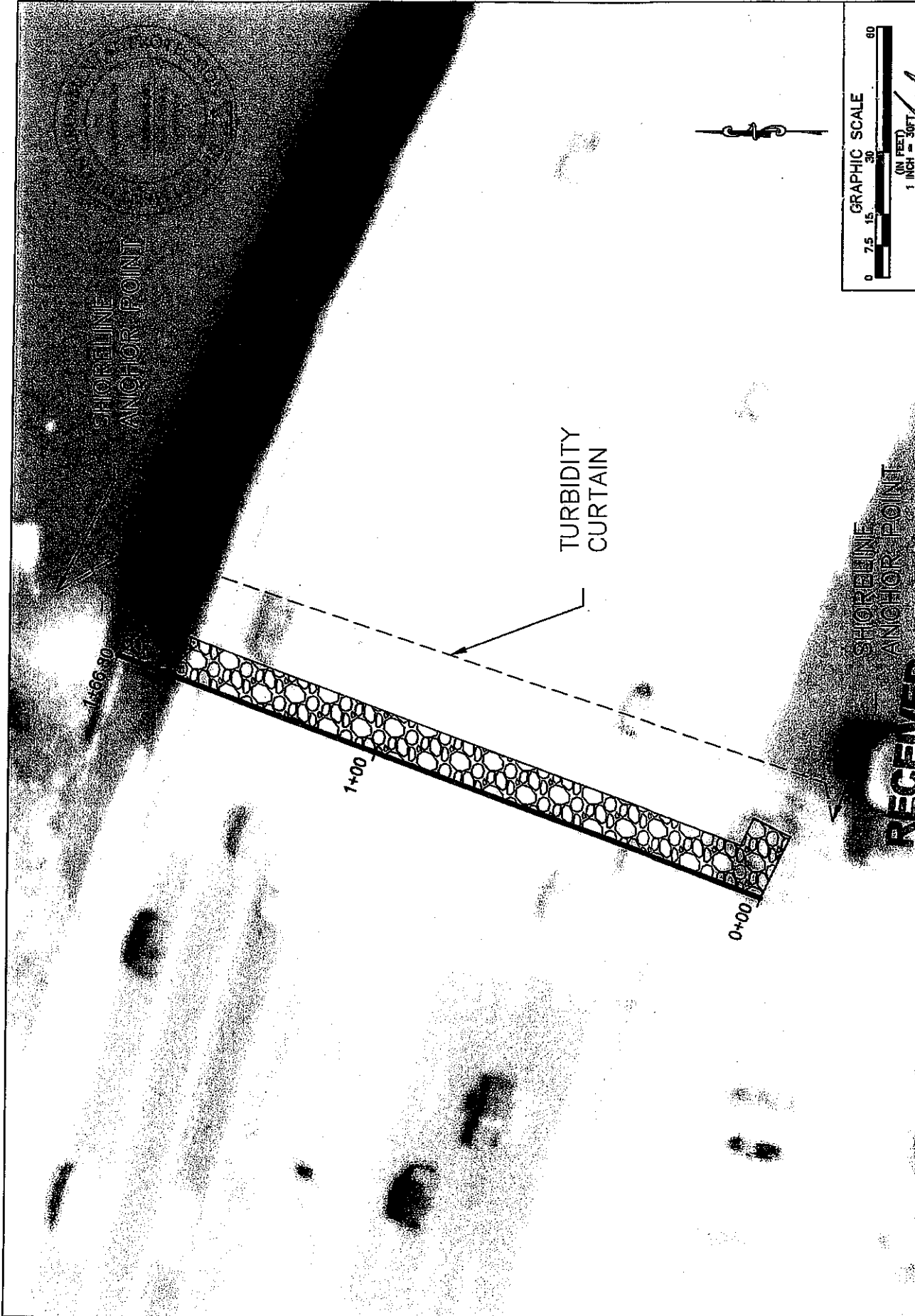
RIPRAP CONSTRUCTION DETAILS



VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

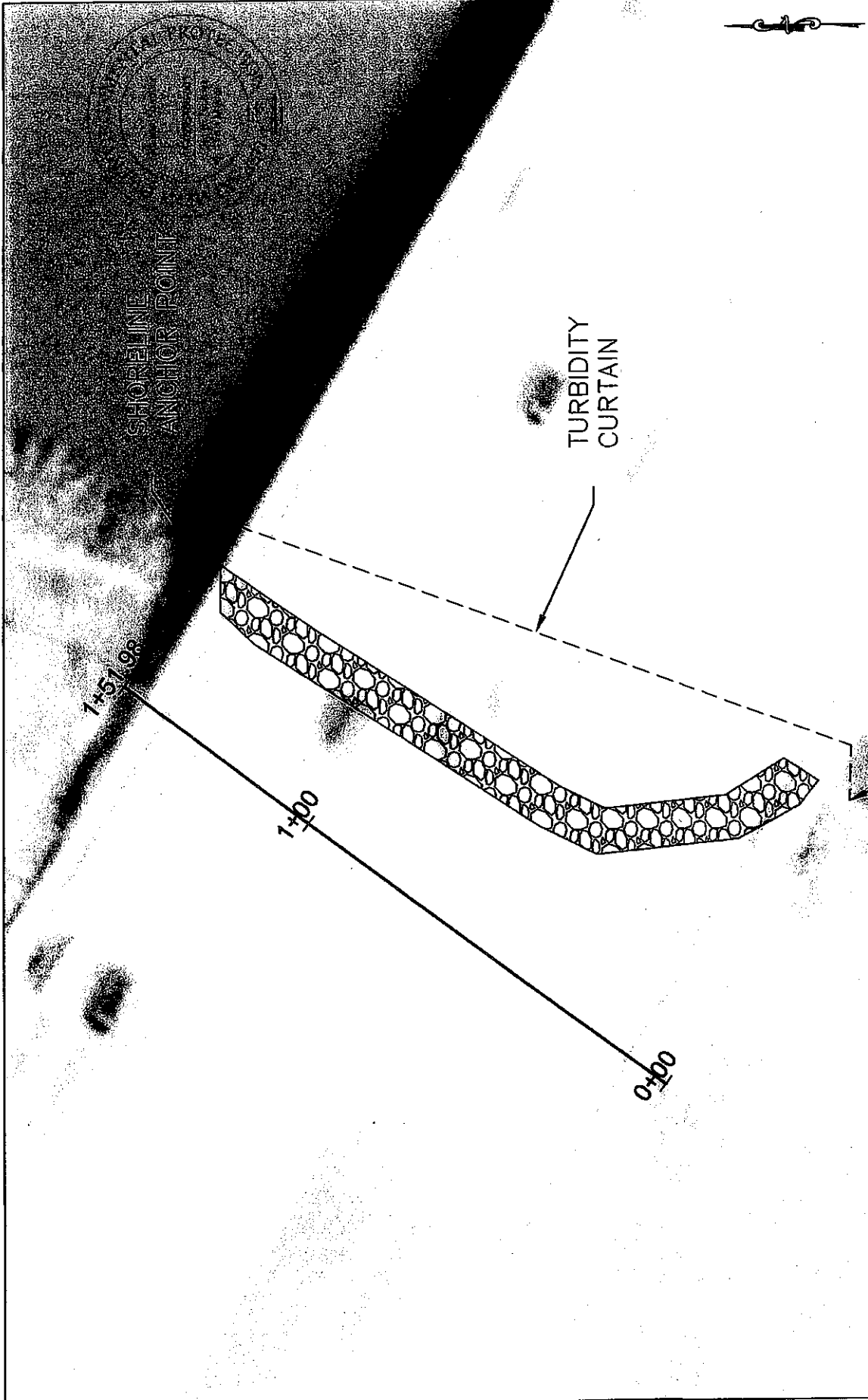
<b>PBSJ</b> 600 West New York Road, S 710 Tampa, Florida 33607 Ph. (813) 282-2775	CLIENT CITY OF NAPLES PROJECT EAST NAPLES BAY DREDGING PROJECT	USCG MITIGATION AREA RIPRAP DETAILS AND CROSS SECTIONS	SHEET NO. 10 OF 14 DATE 8/16/10 DRAWN BY [Signature] CHECKED BY [Signature]
	200	0.E.P. South District	SHEET 10 OF 14

RECEIVED



<b>PBSJ</b> 6700 West Bay Street, Suite 804, Ft. 700 Tampa, Florida 33607 Ph. (813) 782-1275	CLIENT: CITY OF NAPLES	PROJECT: WESTERN GORDON RIVER AREA EROSION CONTROL	GENERAL CONTRACTOR: _____ ARCHITECT: _____ ENGINEER: _____ SURVEYOR: _____	JOB NO. 30001002 DRAWN BY: JES CHECKED BY: JES DATE: 10/11/07 SHEET 11 of 14
	DATE: OCT 1 2007 TIME: 10:00 AM BY: [Signature]	RECEIVED D.E.P. South District	GRAPHIC SCALE 0 7.5 15. 30 60 (IN FEET) 1 INCH = 30 FT	





GRAPHIC SCALE  
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 (IN FEET)  
 1 INCH = 30 FT

DATE	10/28/10
DESIGNER	
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DATE	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	14

SHEET 12 OF 14

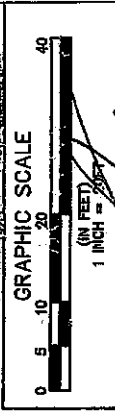
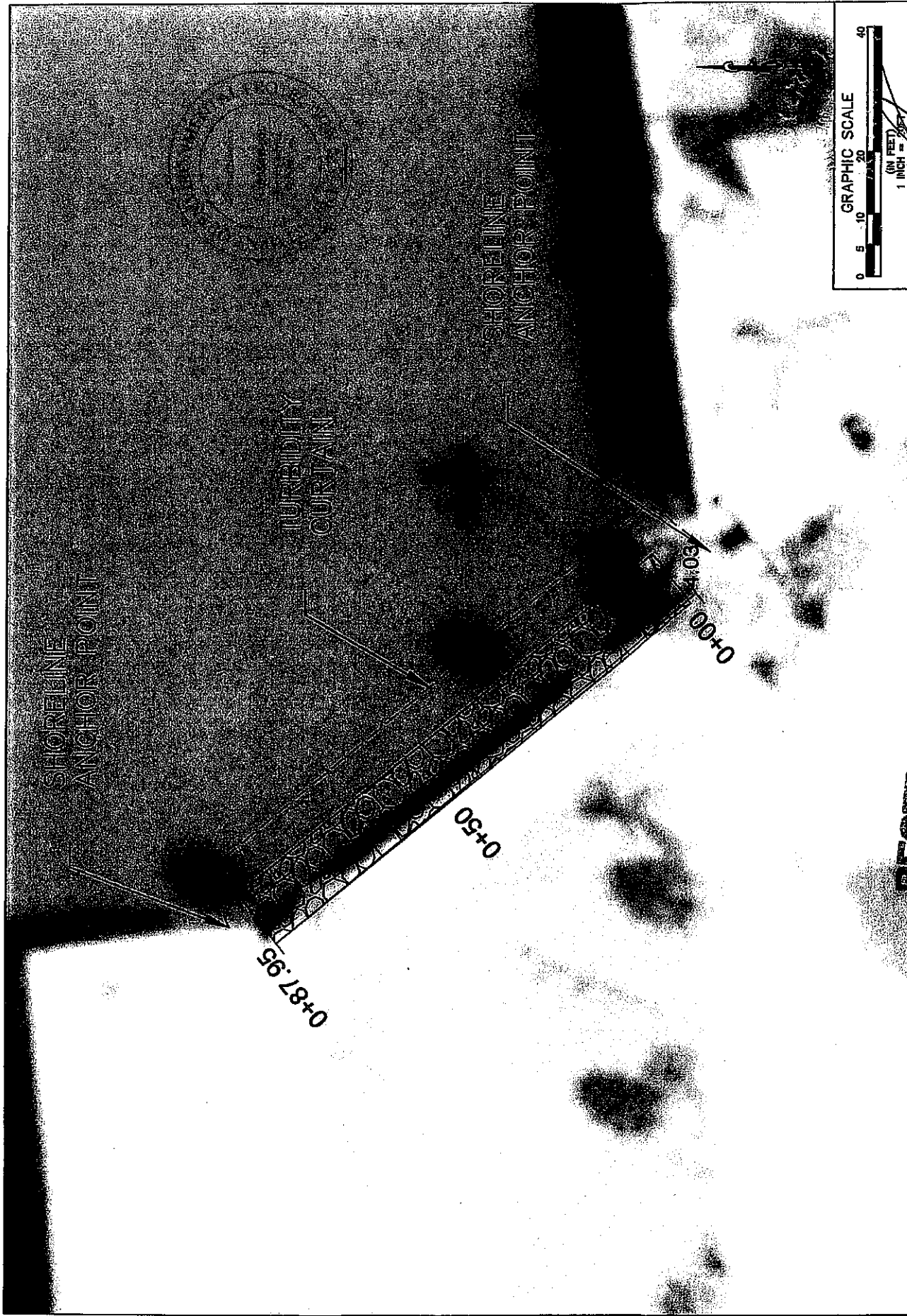
**RECEIVED**  
 CITY OF NAPLES  
 EAST MAPLES BAY  
 DREDGING PROJECT

PROJECT NO.	10011002
DATE	10/28/10
DESIGNER	
CHECKED	
DATE	
PROJECT NO.	
SHEET NO.	
TOTAL SHEETS	14

OWNER: EASTERN GORDON RIVER AREA  
 EROSION CONTROL

D.E.P. South District

**PBS**  
 4200 Blvd. for South Blvd. S. 700  
 Naples, Florida 34107  
 PH (813) 262-7775



JOB NO.	3000002
DATE	08/08/00
SCALE	AS SHOWN
BY	SP
CHECKED BY	SP
DATE	08/08/00
PROJECT	USCG MITIGATION AREA
SHEET	13 OF 14

OWNER	CITY OF NAPLES	DATE	08/08/00
PROJECT	NAPLES BAY DREDGING PROJECT	USCG MITIGATION AREA	
DATE	OCT 11 2010	EROSION CONTROL	

**PBS&J**

400 West Bay South Blvd. # 700  
Naples, Florida 34107  
PH: (813) 261-7775

**RECEIVED**

D.E.P. South District

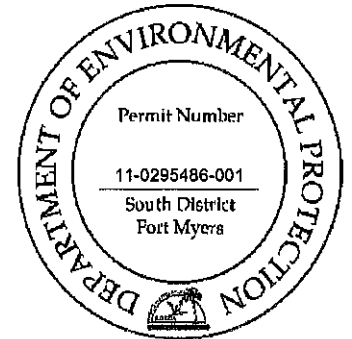
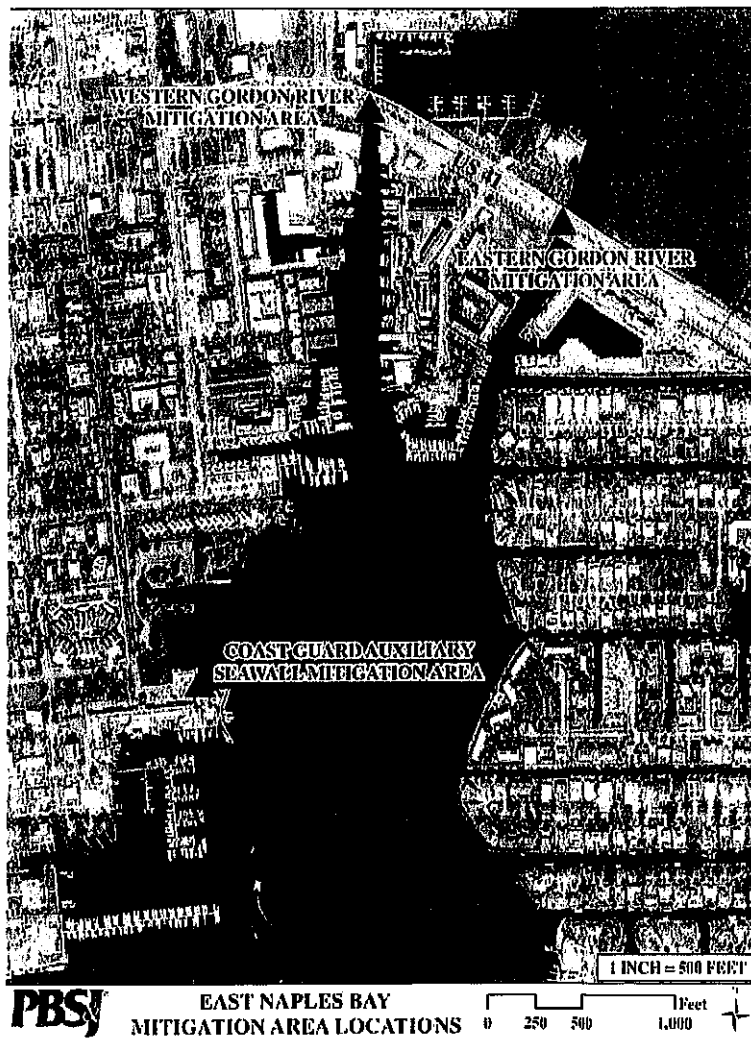


East Naples Bay Dredge Project  
Collier County-ERP  
File No.: 11-0295486-001  
Proposed Alternate Mitigation Summary

Location:

The proposed mitigation areas are located adjacent to three shorelines along the Gordon River/Naples Bay. The first mitigation area is along the western shoreline of the Gordon River under the US41 bridge lat/long (81.790042,26.142010). The second location is located along the eastern shoreline of the Gordon River under the US41 bridge lat/long (-81.786930, 26.140380). The third location is along the seawall next to the Auxiliary Coast Guard Building, Flotilla #93, 1099 9th Street South, Lat/Long (-81.792611, 26.134000), please reference Figure 1.0 location map.

Figure 1.0 Location Map



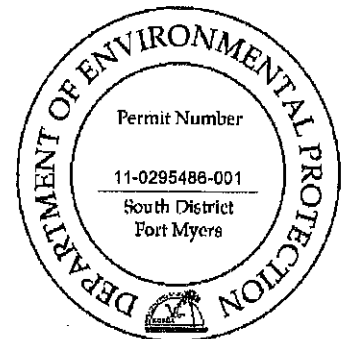
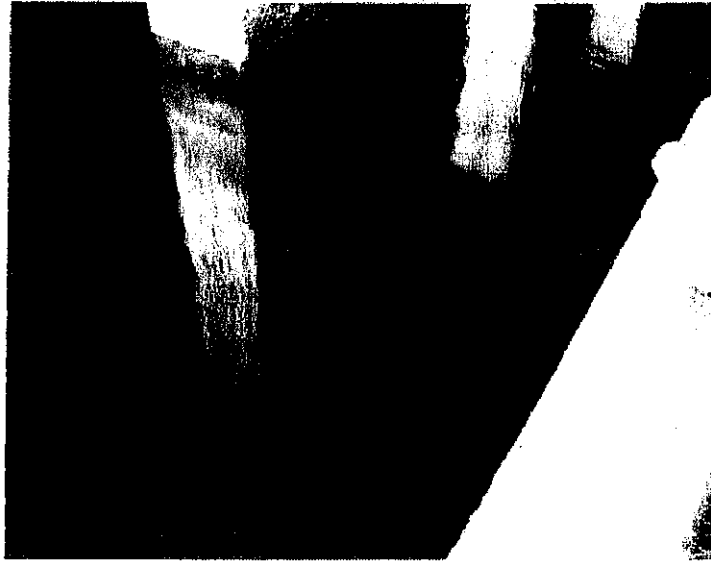
Current Site Condition:

Several site visits were conducted by PBSJ engineers and scientists to document the current condition of the three proposed mitigation areas. At all three areas the current site condition was recorded, photographs taken and a UMAM assessment completed. A meeting was conducted with FDEP staff scientist Arielle Poulos on

May 24<sup>th</sup> 2010. During this meeting it was agreed upon that shoreline restoration would be the best replacement of function for the proposed impacts to seagrass and oyster communities.

**Gordon River Western Shoreline**

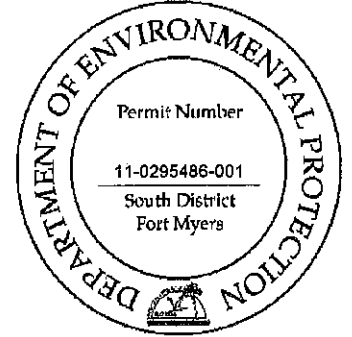
The western shoreline under the US41 bridge currently has a seawall and an upland pedestrian footpath. The shoreline adjacent to the seawall consists of muddy/sandy bottom with scattered clusters of rock and oyster shell. There were no live colonies of oysters observed. There is a large outfall located in the middle of and perpendicular to the seawall. Scattered juvenile fish were observed passing through the area. No vegetation was observed under the bridge due to the limited light availability.



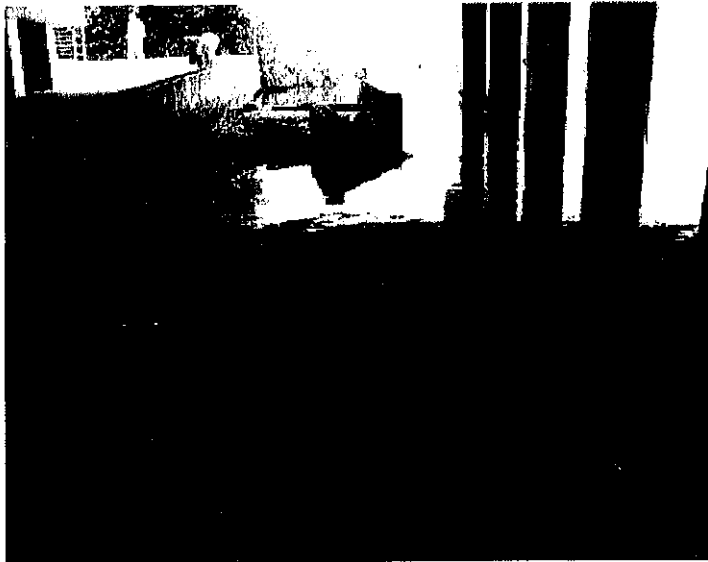
Substrate adjacent to seawall



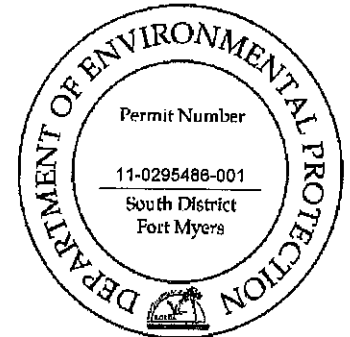
Outfall perpendicular to seawall



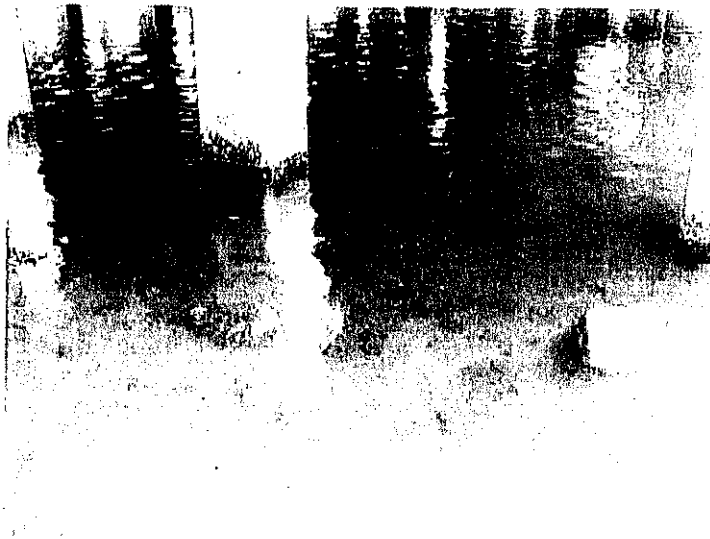
Southwest corner of seawall



Seawall looking west



Close-up of outfall structure



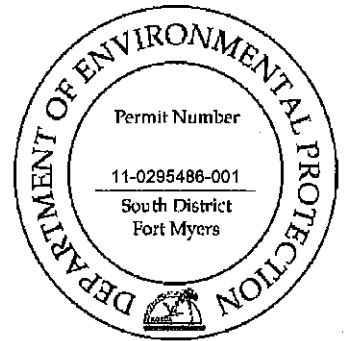
Scattered rocks within the proposed riprap placement area

#### **Gordon River Eastern Shoreline**

The eastern shoreline under the US41 bridge currently has riprap extending from the bridge support to above the mean high water line. Waterward of the riprap and above the mean high water line is sandy sediment with scattered rocks. Waterward of the mean high water line is scattered rocks and oyster shells no live colonies of oysters observed. A few small mangrove saplings were observed along the shoreline but outside the footprint of the bridge. The low height of the bridge approach is limiting light availability and therefore precluding vegetative growth.

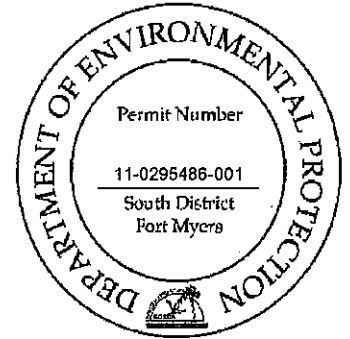


Shoreline from MHW line waterward



Shoreline from MHW line waterward, showing existing riprap

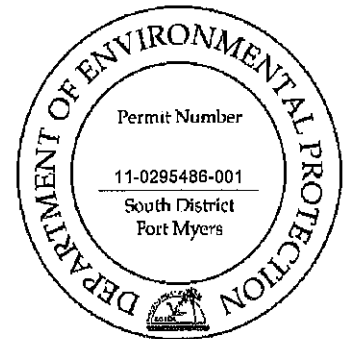




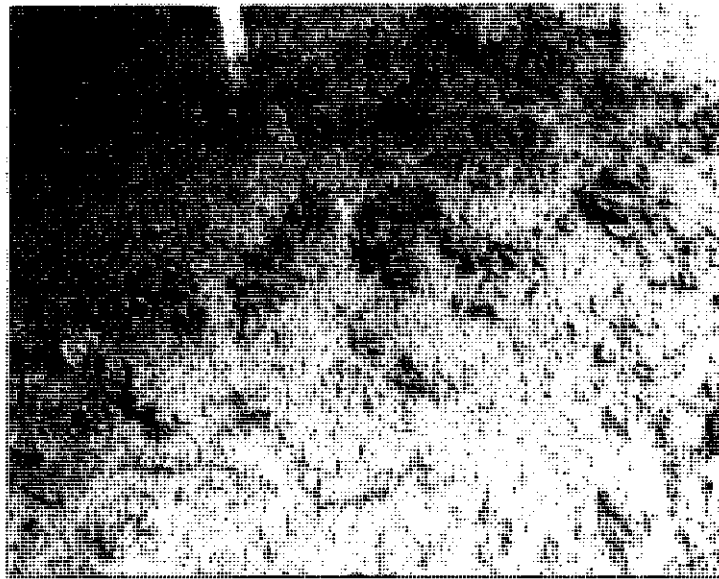
Existing riprap



Sandy sediments waterward of riprap



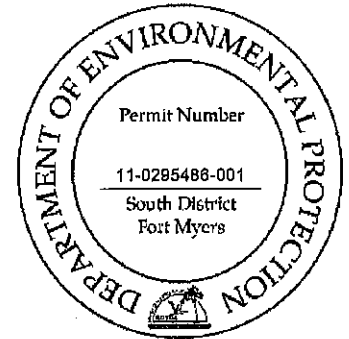
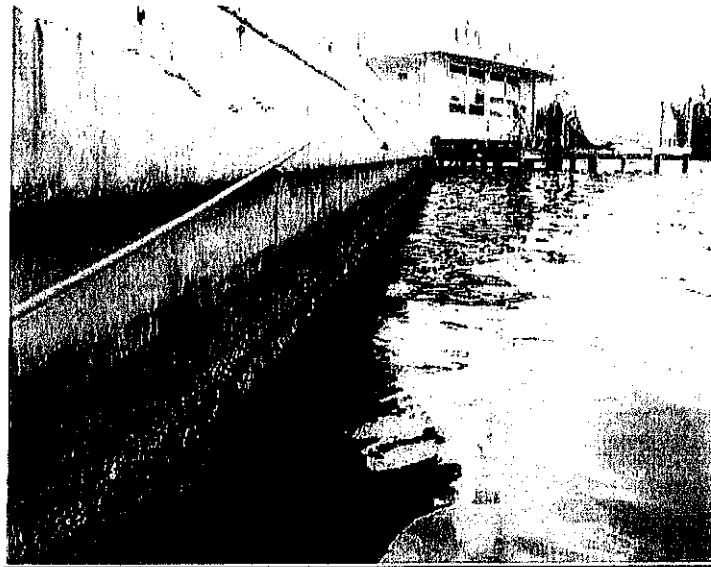
Facing west



Scattered oyster shells

**Auxiliary Coast Guard Building seawall**

There is an existing seawall along the shoreline adjacent to the Auxiliary Coast Guard building. The submerged bottom adjacent to the wall consists of coarse sediment and scattered rocks. Oysters have colonized on the seawall but no live beds were observed within the sediment. Scattered juvenile fish were observed passing through the area. No mangroves or submerged aquatic vegetation was observed along the wall due to restrictive water depths and light penetration.



Seawall proposed for mitigation (placement of riprap)

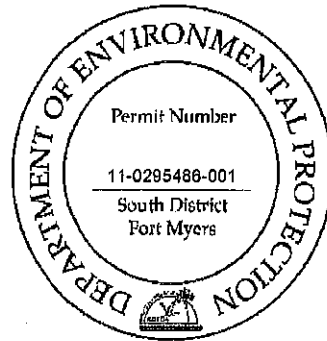


Oysters currently colonized on seawall

**Proposed Mitigation Plan:**

The three assessment areas proposed for mitigation include enhancing shoreline habitat to improve the habitat value and water quality of the immediate areas within the Gordon River/East Naples Bay. The western shoreline along the Gordon River under US41 includes 0.04 acres of submerged habitat. The eastern shoreline under the US41 bridge also include 0.04 acres and the Coast Guard seawall includes 0.02 acres of submerged habitat creation. The proposed activity includes placing riprap starting at the seawall and extending 10 feet waterward. Along the eastern shoreline there is no existing seawall therefore the rock will be placed from the toe of the existing rock to 10 feet beyond the Mean High Water line elevation. The riprap will consist of 12"-16" diameter armoring stone and will be placed at a 4:1 slope (see the plan set for additional details). The riprap will be placed from the uplands using a front loader. Floating turbidity barriers will be installed around the work area is necessary to assure that turbidity levels do not exceed 29 NTU's above background.

The riprap will provide increased habitat for fish and crabs utilizing the area and will increase the likelihood of oyster colonization due to the additional interstitial space. The potential colonization of oysters will improve water quality in the surrounding area.



## 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 Annual Status Report

Florida Department of Environmental Protection

PERMIT NUMBER:

COUNTY:

PROJECT NAME:

PHASE:

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

<u>Permit Condition/Activity</u>	<u>% of Completion</u>	<u>Date of Anticipated Completion</u>	<u>Date of Completion</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(Use Additional Sheets As Necessary)

Benchmark Description (one per major control structure):

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.

**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:

## 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.



# DEPARTMENT OF THE ARMY PERMIT

**Permittee:** City of Naples  
735 8th Street South  
Naples, FL 34102

**Permit No:** SAJ-2009-01709 (IP-LAE)

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

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

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

**Project Description:** The project is for dredging (original Corps permit #88IP-21145 issued November 27, 1989) for the purpose of maintaining safe navigation within multiple man-made access canals (circa 1953) to residential properties (Oyster Bay, Golden Shores, Royal Harbor Subdivisions) within tidal Naples Bay. The target dredge depth is in concert with an historic dredge depth of -6 feet MLW (-6.4 NGVD 1929). The estimated volume of excavated canal materials is 40,900 cubic yards of sand/silt bottom; the work also involves removal of 2,188 cubic yards of rock from 4.6 acres of submerged bottom. The dredging work plans: a) use of mechanical (barge-mounted trac-hoe) and hydraulic dredge for bottom sediment removal; b) use of hydraulic hammer or hydraulic rotary cutter for rock layer thickness >1.5 feet; c) use of trenching bucket or long-tooth bucket excavator for rock layer thickness <1.5 feet; d) with respect to barge-based work, the barge drafts 4.5 feet when fully loaded; e) no blasting. Disposal plans: a) for mechanically-removed sediments, a barge-mounted trac-hoe would offload materials into sealed-bed dump trucks for dewatering at the Naples Landing Park (Disposal Site #2), with subsequent transport to a licensed local disposal facility; b) for sediments removed by hydraulic dredging, the materials would be piped onto a municipal upland disposal site (Disposal Site #1) located off Riverside Drive along the Gordon River; the intake/discharge pipe for return water discharge to the Gordon River would traverse a mangrove fringe, however, no mangrove impacts are proposed. The dredge cut is from shoreline-to-

PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)  
PERMITTEE: E. Naples Bay Dredge

shoreline with a 10-foot setback to existing structures (e.g., docks, seawalls). Project impacts include: a) 2,698 square-foot/0.06 acre of seagrass beds; b) 2,187 square-foot/0.05 acre of oyster beds. The estimated duration of construction is 1 year. The work described above is to be completed in accordance with the 31 pages of plans (Attachment 1) and 5 other attachments (Attachments 2-6) affixed at the end of this permit instrument.

**Project Location:** The project area is located within tidal Naples Bay along multiple man-made access canals (circa 1953) to existing residential properties (Oyster Bay, Golden Shores, Royal Harbor Subdivisions) at the eastern side of Naples Bay, in Sections 3, 10, 11, 14, 15, Township 50S, Range 25E, Naples, Collier County, Florida.

**Directions to site:** From Interstate 75 in Fort Myers, exit at Golden Gate Parkway (Exit #105); travel west 3.6 miles to left onto Goodlette-Frank Road; continue 2 miles to left onto U.S. 41/Tamiami Trail; continue 0.8 mile to right onto Sandpiper Street; the subject canals are located between the streets off the right side of Sandpiper Street.

**LATITUDE & LONGITUDE:** Latitude 26.129290N; Longitude -81.78658W

### **Permit Conditions**

#### **General Conditions:**

1. The time limit for completing the work authorized ends on \_\_\_\_\_. If you find that you need more time to complete the authorized activity, submit your time extension request to this office for consideration at least 1 month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a permit modification from this office, which may require restoration of the area.

PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)  
PERMITTEE: E. Naples Bay Dredge

3. If you discover any previously unknown historic or archaeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

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

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

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

**Special Conditions:**

**1. Reporting Address:** All reports, documentation and correspondence required by the conditions of this permit shall be submitted to: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, 1520 Royal Palm Square Boulevard, Suite 310, Fort Myers, FL 33919. The Permittee shall reference permit number SAJ-2009-01709 on all submittals.

**2. Commencement Notification:** Within 10 days from the date of initiating the authorized work, the Permittee shall provide to the Corps a written notification of the date of commencement of work authorized by this permit.

**3. Manatee Conditions:** The Permittee shall comply with *Standard Manatee Conditions for In-Water Work 2009* (Attachment 2).

PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)

PERMITTEE: E. Naples Bay Dredge

**4. Sea Turtle and Smalltooth Sawfish Conditions:** The Permittee shall comply with *Sea Turtle and Smalltooth Sawfish Construction Conditions* (Attachment 3).

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

**6. Regulatory Agency Changes:** Should any other regulatory agency require changes to the work authorized or obligated by this permit, the Permittee is advised that a permit modification is required prior to initiation of those changes. It is the Permittee's responsibility to request a permit modification from the Fort Myers Regulatory Office.

**7. Self-Certification:** Within 60 days of completion of the authorized work, the Permittee shall complete and submit a "Self-Certification Statement of Compliance" form (Attachment 4) to the Corps. In the event that the completed work deviates, in any manner, from the authorized work, the Permittee shall describe, on the Self-Certification Form, the deviations between the work authorized by the permit and the work as constructed. Please note that the description of any deviations on the Self-Certification Form does not constitute approval of any deviations by the Corps.

**8. Mitigation Plan:** Upon completion of the authorized work, the Permittee shall complete the following mitigation objectives in accordance with the approved compensatory mitigation plan (Attachment 5): Conduct shoreline habitat enhancement activities at 3 approved mitigation areas situated along the tidal Gordon River involving creation/enhancement of living shoreline habitat via deployment of clean rip rap substrate to support fish, crabs, oysters and native vegetation. The Permittee shall monitor the mitigation areas for a period of 1 year to assess if

PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)  
PERMITTEE: E. Naples Bay Dredge

any invasive exotic or nuisance vegetation may have grown within the shoreline enhancement areas where rip rap was deployed for purposes of compensatory mitigation; any such invasive exotic or nuisance vegetation will be removed; additionally, the Permittee shall provide a general assessment of the level of natural recruitment of aquatic resources (e.g., oysters, mangroves) within the mitigation areas such that the habitat improvements may be rated as: a) static; b) improved; or c) degraded, when compared with pre-mitigation conditions.

**9. Mitigation Plan Remediation:** At the conclusion of a 1-year monitoring period, at each of the 3 mitigation sites, if shoreline habitat is rated as improved, no remedial mitigation plan would be required; if the habitat is rated as static or degraded, within 60 days of notification of the Corps that the approved and implemented mitigation plan was not successful, the Permittee shall submit an alternate mitigation plan to the Corps to wholly address the loss of aquatic resources associated with the project (i.e., 0.1 acre). Within 60 days of Corps approval of an alternate mitigation plan as per modification of the permit instrument, the Permittee shall implement the approved alternative mitigation plan.

**10. Monitoring and Reporting Timeframes:** To show compliance with the performance standards the Permittee shall complete the following:

a. Perform a time-zero monitoring event of the mitigation areas (i.e., prior to rip rap deployment) and define the existing conditions with respect to the presence/coverage of aquatic resources (e.g., oysters, native vegetation, etc.).

b. Submit the time-zero report to the Corps within 60 days of completion of the monitoring event. The report will include at least 1 paragraph describing baseline conditions of the mitigation site(s) prior to initiation of the compensatory mitigation objectives.

c. Subsequent to completion of the compensatory mitigation objectives, at the 1-year timeframe, perform monitoring of the mitigation areas to assess habitat improvements.

d. Submit a monitoring report to the Corps within 60 days of completion of the monitoring event.

PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)  
PERMITTEE: E. Naples Bay Dredge

**11. Reporting Format:** The monitoring report shall follow a 10-page maximum report format for assessing compensatory mitigation sites. The Permittee shall submit all documentation to the Corps on 8.5 x 11-inch paper, and include the following:

a. Project Overview (1 Page):

(1) Department of the Army Permit Number

(2) Name and contact information of Permittee and agent

(3) Name of party responsible for conducting the monitoring and the date(s) the inspection was conducted

(4) A brief paragraph describing the purpose of the approved project, areal extent (square-feet/acres) and type of aquatic resources impacted, and mitigation areal extent (square-feet/acres) and type of mitigation/habitat improvements authorized to compensate for aquatic impacts associated with the project.

(5) Written description of the location, any identifiable landmarks of the compensatory mitigation areas including information to locate the boundaries/coordinates of the mitigation sites (e.g., latitude/longitude, UTM's, state plane coordinate system, etc.).

(6) Date(s) that compensatory mitigation commenced and/or was completed.

(7) Brief statement regarding whether the performance standards for enhanced shoreline habitat are being met (i.e., general ratings: static, improved, degraded).

(8) Dates of any corrective or maintenance activities conducted since the time-zero report submission.

(9) Specific recommendations for any additional corrective or remedial actions.

b. Requirements (1 page): List the monitoring requirements and performance standards, as specified in the approved mitigation plan and special conditions of this permit, and evaluate whether

PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)  
PERMITTEE: E. Naples Bay Dredge

the compensatory mitigation project sites are successfully achieving the approved performance standards or trending towards success.

c. Summary Data (maximum 4 pages): Summary data should be provided to substantiate the success and/or potential challenges associated with the compensatory mitigation project. Photo documentation may be provided to support the findings and recommendations referenced in the monitoring report and to assist the Corps in assessing whether the compensatory mitigation project is meeting the applicable standards. Submitted photos should be formatted to print on standard 8.5 x 11-inch paper, dated, and clearly labeled with the direction from which the photo was taken. The photo location points should also be identified on appropriate maps.

d. Maps and Plans (maximum 3 pages): Maps shall be provided to show the location of the compensatory mitigation sites relative to other landscape features, habitat types, locations of photographic reference points, transects, sampling data points, and/or other features pertinent to the mitigation plan. In addition, submitted maps and plans should clearly delineate the mitigation site perimeter(s). Each map or diagram should be formatted to print on standard 8.5 x 11-inch paper and include a legend and the location of any photos submitted for review.

e. Conclusions (1 page): A general statement shall be included that describes the conditions of the compensatory mitigation project. If performance standards are not being met, a brief explanation of the difficulties and potential remedial actions proposed by the Permittee or sponsor, including a timetable, shall be provided. The District Commander will ultimately determine if the mitigation is deemed successful.

**12. Mitigation Release:** The Permittee's responsibility to complete the required compensatory mitigation, as set forth in the **Compensatory Mitigation** Special Condition of this permit will not be considered fulfilled until mitigation success has been demonstrated and written verification has been provided by the Corps. A mitigation area which has been released will require no further monitoring or reporting by the Permittee.

Further Information:

PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)  
PERMITTEE: E. Naples Bay Dredge

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

- (x) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
- (x) Section 404 of the Clean Water Act (33 U.S.C. 1344).
- ( ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

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

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

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

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

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

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

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

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

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



PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)  
PERMITTEE: E. Naples Bay Dredge

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

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

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

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

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

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

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

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

PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)  
PERMITTEE: E. Naples Bay Dredge

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

A. William Moss  
(PERMITTEE)

4/28/11  
(DATE)

A. William Moss, City Manager  
(PERMITTEE NAME-PRINTED)

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

Alfred A. Pantano, Jr.  
FOR

(DISTRICT ENGINEER)  
Alfred A. Pantano, Jr.  
Colonel, U.S. Army  
District Commander

5/9/11  
(DATE)

PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)  
PERMITTEE: E. Naples Bay Dredge

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

\_\_\_\_\_  
(TRANSFEREE-SIGNATURE)

\_\_\_\_\_  
(DATE)

\_\_\_\_\_  
(NAME-PRINTED)

\_\_\_\_\_  
(ADDRESS)

\_\_\_\_\_  
(CITY, STATE, AND ZIP CODE)

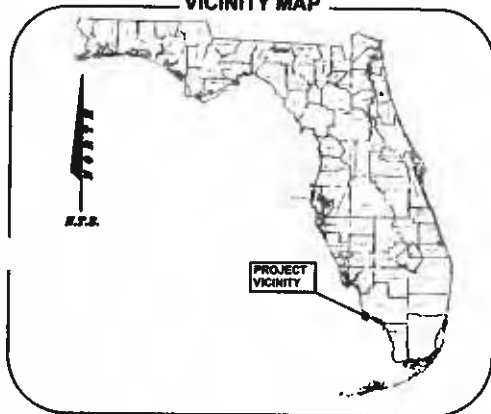
PERMIT NUMBER: SAJ-2009-01709 (IP-LAE)  
PERMITTEE: E. Naples Bay Dredge

***Attachments to Department of the Army  
Permit Number SAJ-2009-01709 (IP-LAE)***

1. PERMIT DRAWINGS: Location maps/plan sheets/construction Drawings (Figures 1-31) April 5, 2011.
2. *Standard Manatee Conditions for In-Water Work* (FWC 2009) (2 pages)
3. *Sea Turtle and Smalltooth Sawfish Construction Conditions* (NMFS 2006) (1 page)
4. Self-Certification Form (1 page)
5. Mitigation Plan (20 pages)
6. WATER QUALITY/CZM CERTIFICATION: Specific Conditions of FDEP Permit No. 11-0295486-001 dated December 30, 2010 which constitutes water quality/coastal zone consistency concurrence for the project in accordance with General Condition number 5 on page 3 of this DA permit (6 pages).

# EAST NAPLES BAY DREDGING PROJECT PERMIT PLANS AND SPECIFICATIONS COLLIER COUNTY, FLORIDA

VICINITY MAP



LOCATION MAP



SCALE: 1" = 5000'

INDEX OF DRAWINGS

OVERALL PROJECT SHEET	COVER
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PLAN VIEW DATA POINT CONTOUR MAP	SHEET 11-17
PLAN VIEW SIDE SCAN SONAR	SHEET 18-24
PLAN VIEW SEDIMENT AND CORE LOCATIONS	SHEET 25
SUBMERGED AQUATIC VEGETATION ASSESSMENT MAY 2007	SHEET 26
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SUBMERGED AQUATIC VEGETATION ASSESSMENT AUGUST 2007	SHEET 27
PROPOSED DREDGE TEMPLATE DESIGN	SHEET 28-34
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STAGING AND DEWATERING SITES	SHEET 36-42
TURBIDITY CURTAIN DETAILS	SHEET 40A-40C
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MITIGATION SITE	SHEET 43A-43E
EROSION CONTROL DETAILS	SHEET 44
CONSTRUCTION NOTES	SHEET 45

## GENERAL NOTES

1. THE PURPOSE OF THIS PROJECT IS TO DREDGE APPROXIMATELY 40,000 CUBIC YARDS OF BEDDIMENT AND 2,100 CUBIC YARDS OF ROCK FROM EAST NAPLES BAY. THESE VOLUMES ARE BASED ON DREDGING TO -6.0 MLDW (-6.4 MGDV), THE VOLUMES DO NOT ACCOUNT FOR SWELL, OVERDREDGE, ETC.
2. DREDGING ACTIVITY WILL BE CONDUCTED IN DESIGNATED AREAS ONLY AND IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
3. DREDGING ACTIVITY WILL OBSERVE A 10' BUFFER FROM ALL DOCKS, NATURAL RESOURCES, SEAWALLS, AND STRUCTURES.
4. CONTRACTOR WILL STRICTLY COMPLY WITH ALL MANATEE REGULATIONS.
5. CONTRACTOR SHALL MAINTAIN EROSION CONTROL AND TURBIDITY CONTROL MEASURES THROUGHOUT THE PROJECT.
6. TOPOGRAPHIC AND BATHYMETRIC DATA PROVIDED BY MORGAN & EKLUND, INC. DATED MAY 1, 2007.
7. GRID COORDINATES ARE IN FEET, AND ARE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF (NAD 83).

ATIONS SHOWN ARE IN FEET, AND ARE REFERENCED TO NATIONAL GEODETIC TICAL DATUM OF 1929 (NGVD 29).

1 LOW WATER (MLW) IS 0.4' HIGHER THAN NATIONAL GEODETIC VERTICAL DATUM 128 (NGVD 29) AREA ACCORDING TO BENCHMARKS PUBLISHED ON FLORIDA (RTMENT OF ENVIRONMENTAL PROTECTION (FDEP) LAND BOUNDARY INFORMATION EMS (LABINS) WEBSITE.

VEY INFORMATION DEPICTED REPRESENTS THE EXISTING CONDITIONS AT TIME OF THE SURVEY

IAL PHOTOGRAPHS WERE PROVIDED BY COLLIER COUNTY PROPERTY APPRAISER WERE TAKEN JANUARY 2007.

## CONTROL TABULATION

POINT	NAD 83/90 SPCS (SD) US FEET		NGVD 29 ELEVATION	AGENCY	DESCRIPTION	STAMPING
	NORTHING	EASTING				
408	-	-	14.79	NS	DISK SET IN FACE OF WALL	L 408 1992
BMT 148	-	-	3.95	NS	DISK SET IN CONCRETE AWWALL	BMT 148
30	-	-	3.01	FLOR	DISK ON CONCRETE PAD	COI 30 85H 1986
V 20	-	-	3.60	FLOR	CONCRETE MONUMENT	V 20 1983
07E 3110 C TIDAL	624861.37	399015.32	3.20	NS	DISK IN PVC	1978 3110 C
NS 194 9244	624767.77	411192.78	8.23	NS	CONCRETE MONUMENT	NS 194 9244 1992
APP C	620188.46	408206.27	5.50	NS	12" X 12" CONCRETE MONUMENT	APP C 1979
101	631041.39	408225.05	7.50	NS	CONCRETE MONUMENT	0101
102	630923.67	408228.71	5.50	NS	CONCRETE MONUMENT	0102
103	630836.91	401268.25	4.50	NS	CONCRETE MONUMENT	0103
104	630940.62	399406.39	4.60	NS	CONCRETE MONUMENT	0104

PREPARED FOR:  
**CITY OF NAPLES**

PREPARED BY:

**PBS&J**

CONSULTING ENGINEERS  
5300 WEST CYPRESS STREET, SUITE 200  
TAMPA, FLORIDA 33607-1066  
(800) 477-7275 (VOICE)  
(813) 286-1207 (FAX)

**MORGAN & EKLUND, INC.**

PROFESSIONAL SURVEY CONSULTANTS



STATE OF FLORIDA  
P.O. BOX 2000  
TAMPA, FLORIDA 33601  
PHONE (813) 286-1207  
FAX (813) 286-1208

STATE OF FLORIDA  
P.O. BOX 2000  
TAMPA, FLORIDA 33601  
PHONE (813) 286-1207  
FAX (813) 286-1208

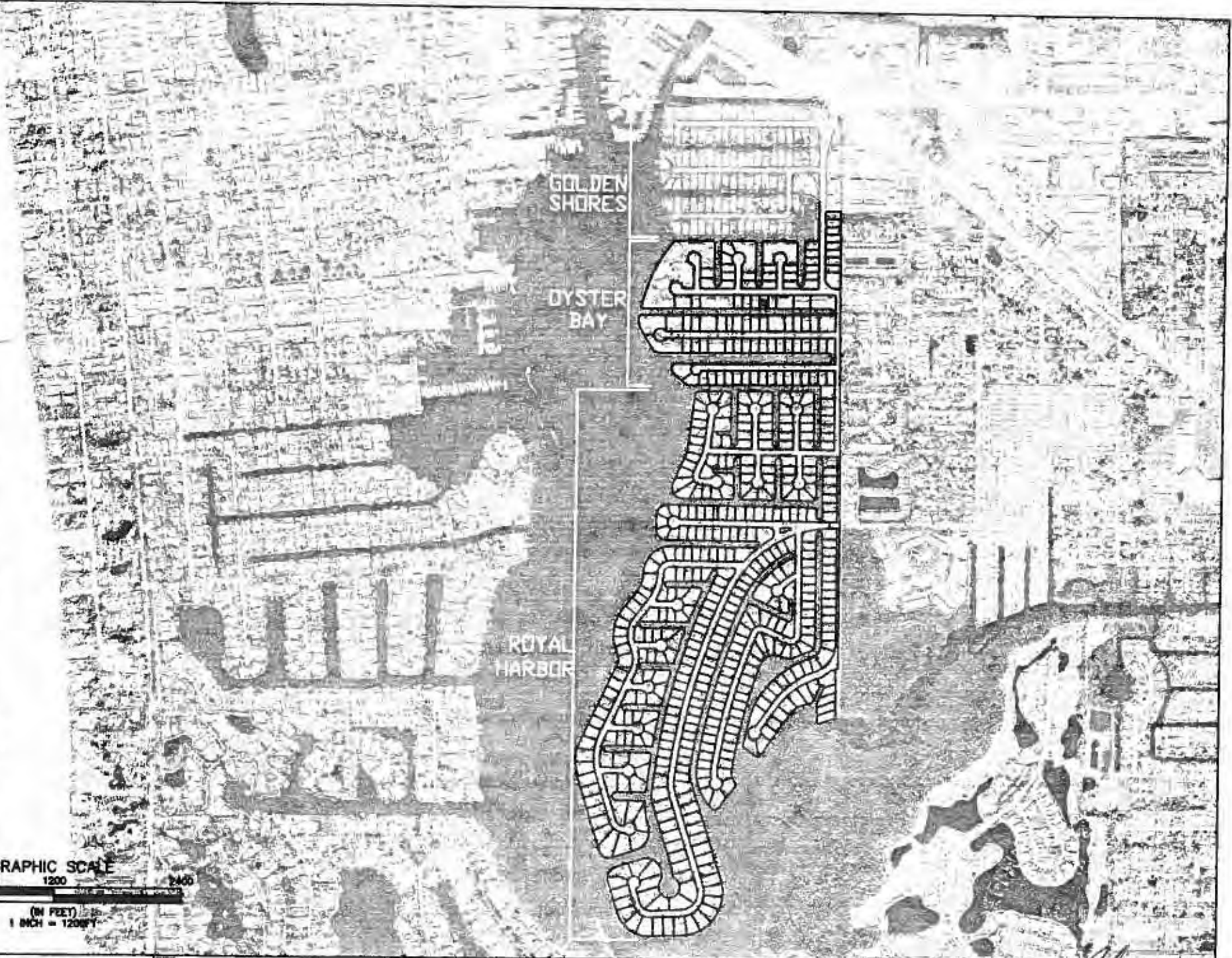
## PROJECT LOCATION

THE PROJECT AREA IS LOCATED IN AND ALONG NAPLES BAY IN COLLIER COUNTY, FLORIDA.

I hereby certify that the design of this project, as prepared under my personal direction and control, complies with the applicable state and local, state and Federal Regulations.

*[Signature]*  
DATE: 7/2/11

SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 2/31



6299 West Cypress Street, Suite 300  
 Tampa, Florida 33607  
 Ph. (813) 282-7275

OWNER <b>CITY OF NAPLES</b>	PROJECT <b>EAST NAPLES BAY DREDGING PROJECT</b>	SITE <b>PROJECT AREA</b>	DATE <b>4/5/11</b>	DRAWN BY 	JOB NO. / SHEET NO. OWNER / DESIGNED BY / DATE

SHEET 4,  
11,18,28

SHEET 5,  
12,19,29

SHEET 6,  
13,20,30

SHEET 7,  
14,21,31

SHEET 8,  
15,22,32

SHEET 9,  
16,23,33

SHEET 10,  
17,24,34

GRAPHIC SCALE  
1" = 200'

IN FEET  
1" = 200'

SAJ-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 1: Figure 3/31



6300 West Cypress Street, Suite 200  
Naples, Florida 34107  
Ph. (813) 283-7276

CITY OF NAPLES

EAST NAPLES BAY  
DREDGING PROJECT

SHEET BREAKDOWN  
PAGE BREAKDOWN

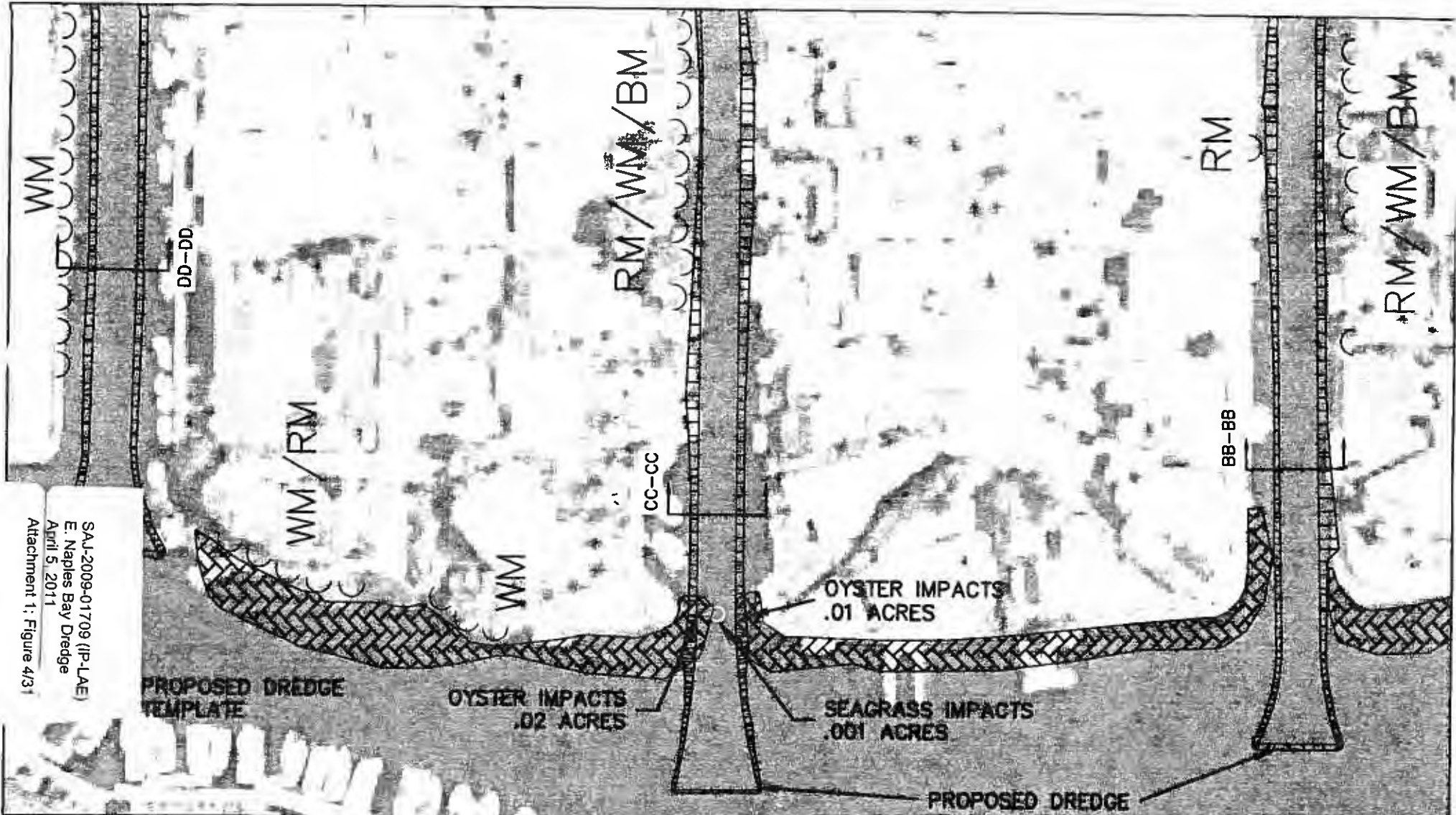
DATE 4/2/11

DESIGNED BY  
DRAWN BY  
CHECKED BY  
APPROVED BY

PROJECT NO.  
SHEET NO.  
DATE

JOB NO. 09000001  
PC 01  
CHECKED BY

SHEET 3 of 45



SAJ-2008-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 4/31

PROPOSED DREDGE  
 TEMPLATE

OYSTER IMPACTS  
 .02 ACRES

OYSTER IMPACTS  
 .01 ACRES

SEAGRASS IMPACTS  
 .001 ACRES

PROPOSED DREDGE  
 TEMPLATE

LEGEND:

PROPOSED DREDGE TEMPLATE	
OBSERVED SEAGRASS 5/07	
OBSERVED OYSTER BEDS	
HD- HALOPHILA DECIPIENS	
MANGROVES	
RM-RED MANGROVE	
WM-WHITE MANGROVE	
BM-BLACK MANGROVE	



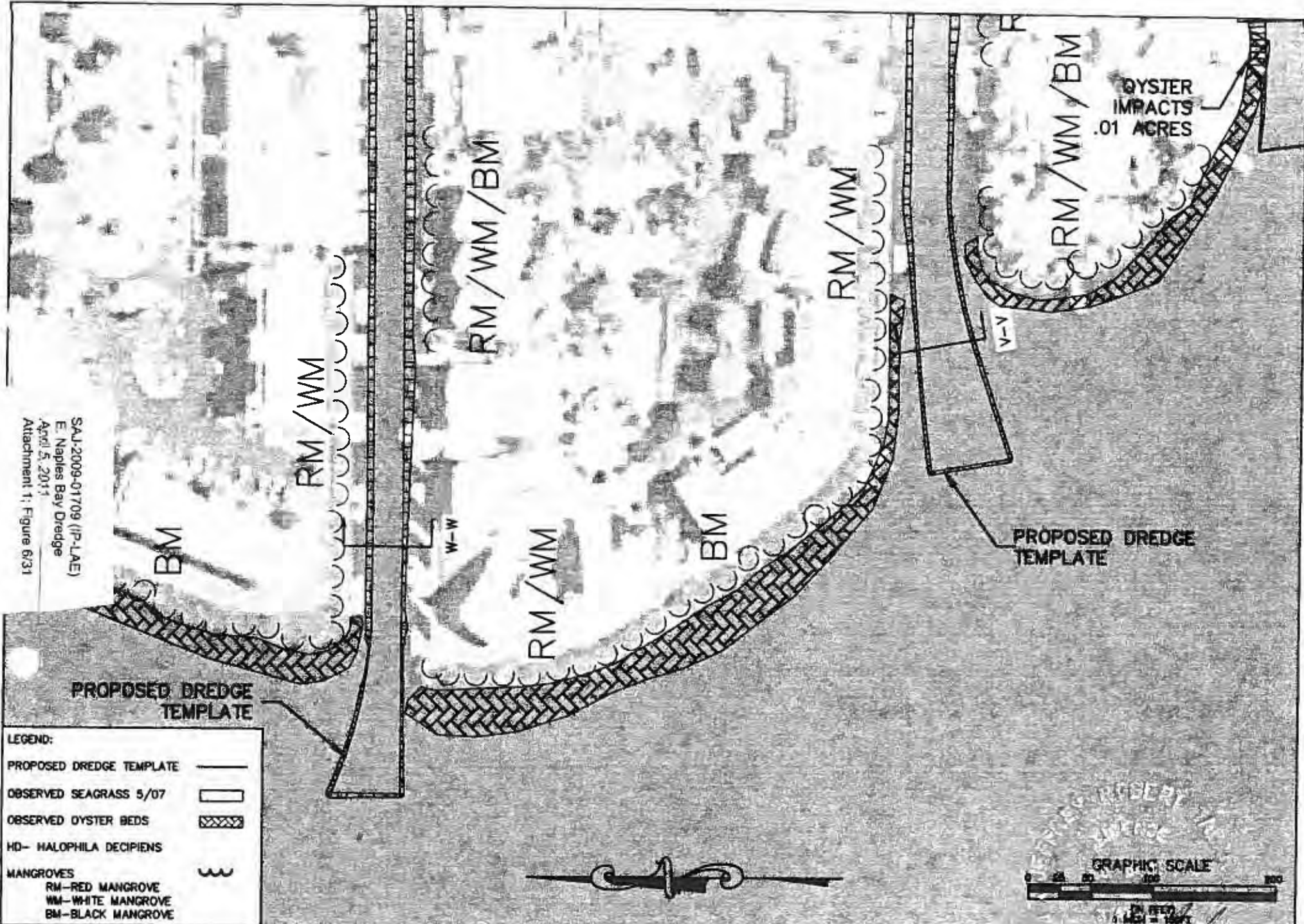
**PBSJ** 4390 West Orange Blvd., Suite 208  
 Naples, Florida 34107  
 Ph. (813) 362-7275

CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY	DATE	PROPOSED DREDGE SAV IMPACTS BASED ON MAY 2007 ASSESSMENT	ISSUED FOR REVIEW	4/2/08	DATE	4/2/08





SAL-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 6/31

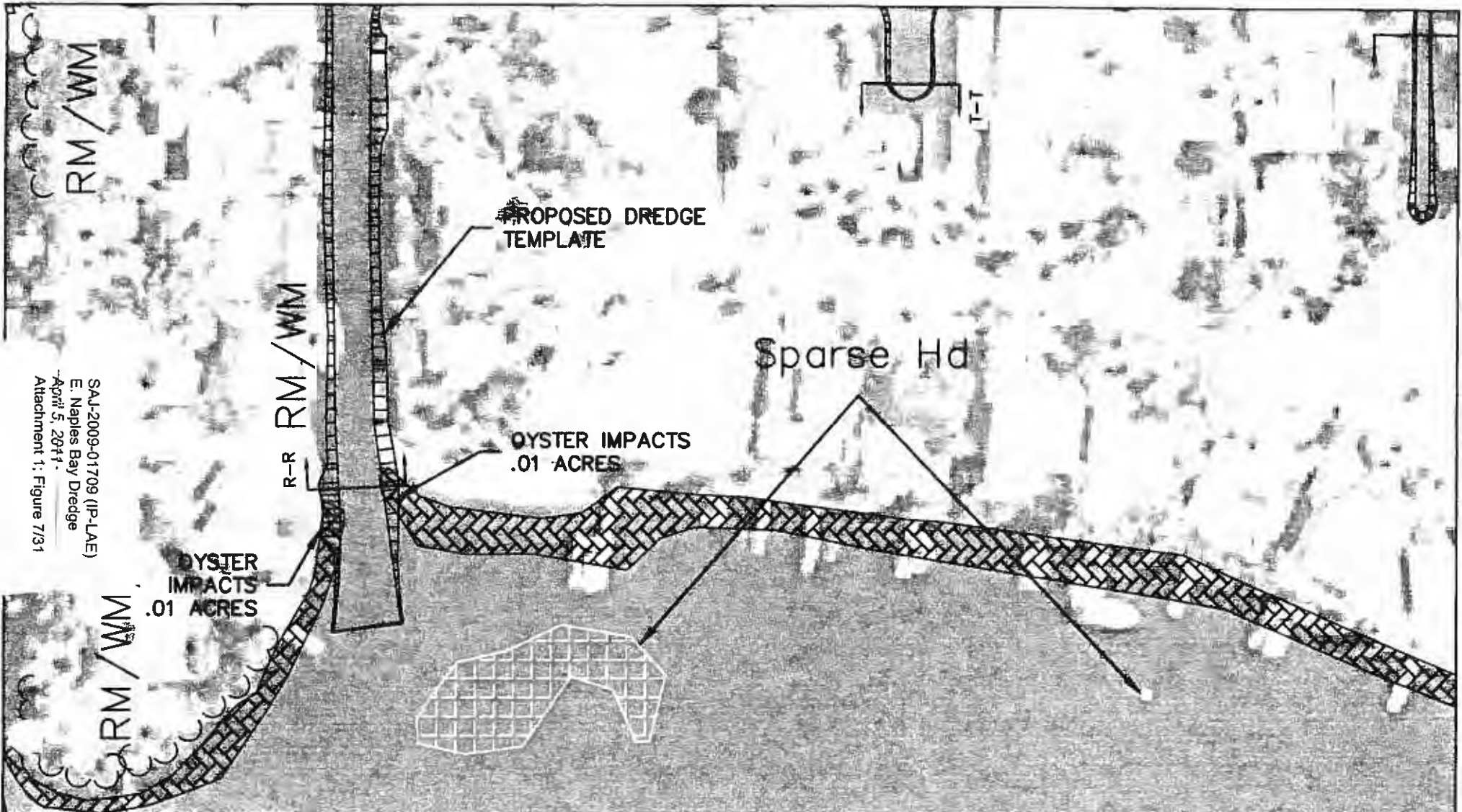


**LEGEND:**

PROPOSED DREDGE TEMPLATE	
OBSERVED SEAGRASS 5/07	
OBSERVED OYSTER BEDS	
HD- HALOPHILA DECIPIENS	
MANGROVES	
RM-RED MANGROVE	
WM-WHITE MANGROVE	
BM-BLACK MANGROVE	






**PBSJ** 6300 West Orange Street, Suite 200  
 Naples, Florida 34107  
 Ph. (813) 263-1270

CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY	FOR	PROPOSED DREDGE SAY IMPACTS BASED ON MAY 2007 ASSESSMENT	DATE	4/2/08	BY		DATE	4/2/08	BY		DATE	4/2/08	BY		DATE	4/2/08	BY	
SHEET 26C of 45																					


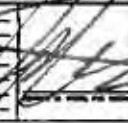


SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 7/31

**LEGEND:**

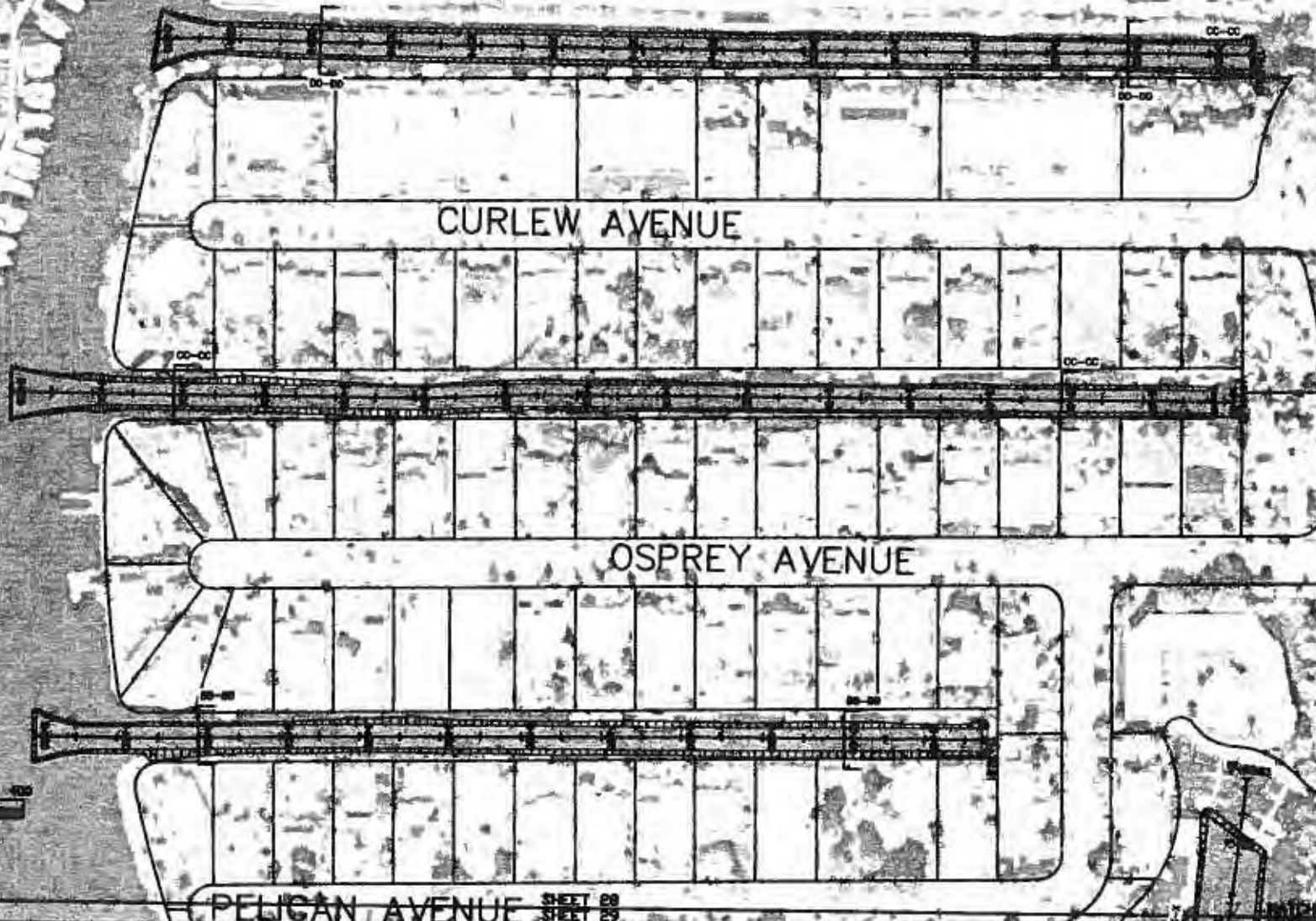
PROPOSED DREDGE TEMPLATE	
OBSERVED SEAGRASS 5/07	
OBSERVED OYSTER BEDS	
HD- HALOPHILA DECIPIENS	
MANGROVES	
RM-RED MANGROVE	
WM-WHITE MANGROVE	
BM-BLACK MANGROVE	

**PBSJ** 3200 West Cypress Street, Suite 200  
 Tampa, Florida 33607  
 Ph. (813) 281-1271

CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY	TITLE	PROPOSED DREDGE SAV IMPACTS BASED ON MAY 2007 ASSESSMENT	DATE	4/2/08	DESIGNED		CHECKED		DATE	4/2/08
PROJECT		DATE		DESIGNED		CHECKED		DATE		DATE		DATE	

SHEET 280 of 45

MIAMI TRAIL



SANDPIPER STREET

CURLEW AVENUE

OSPREY AVENUE

PELICAN AVENUE

SHEET 28  
STREET 29

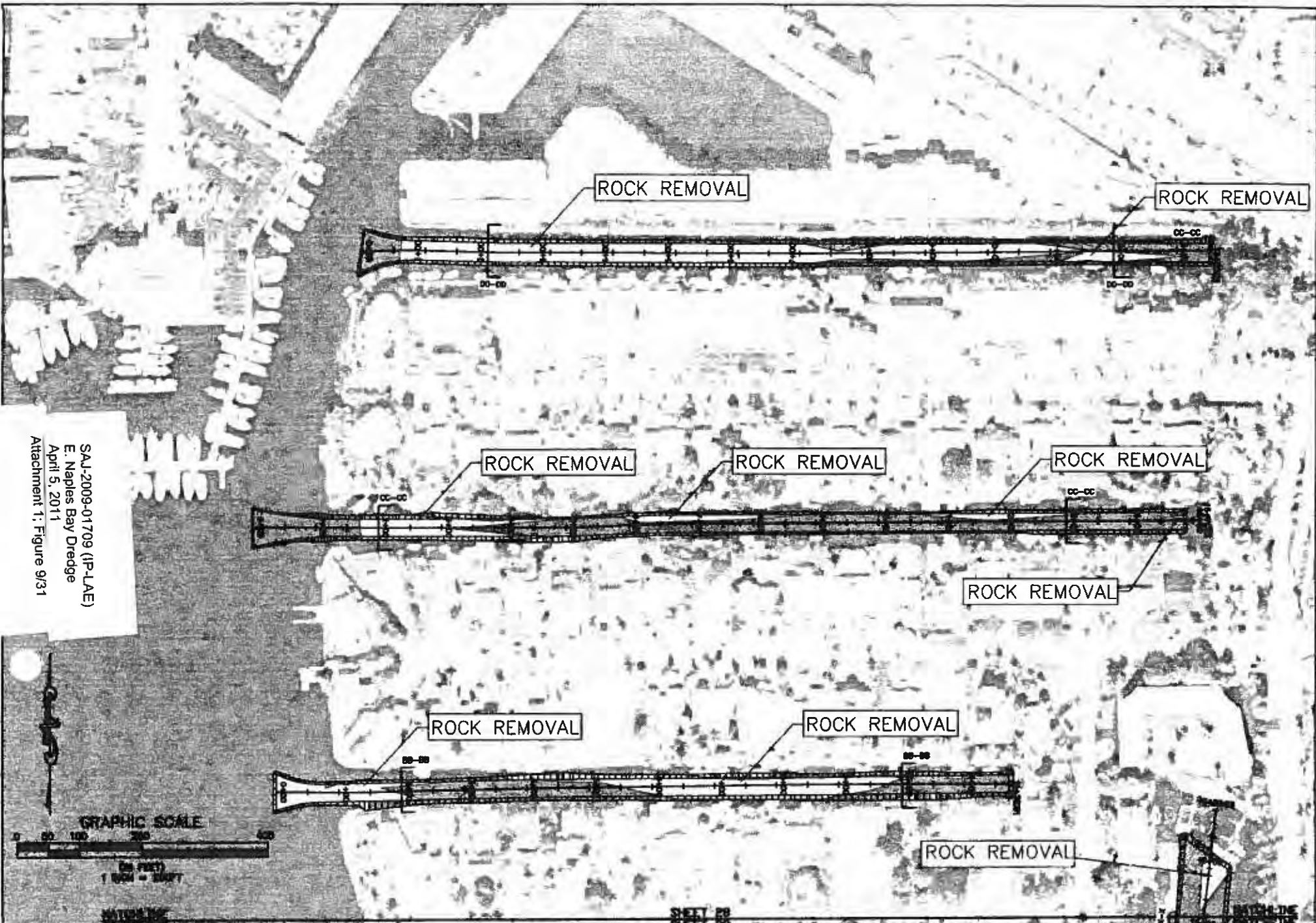
SAJ-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 1: Figure 8/31

GRAPHIC SCALE



**PBS&J**  
6300 West Orange Street, Suite 200  
Naples, Florida 34107  
Ph: (813) 282-7270

CITY OF NAPLES	EAST NAPLES BAY DREDGING PROJECT	PROPOSED DREDGE TEMPLATE DESIGN -8.0 MLW GOLDEN SHORES	DATE: 1/2/11	SHEET 28 OF 29 SHEET 28 OF 45
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SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 9/31

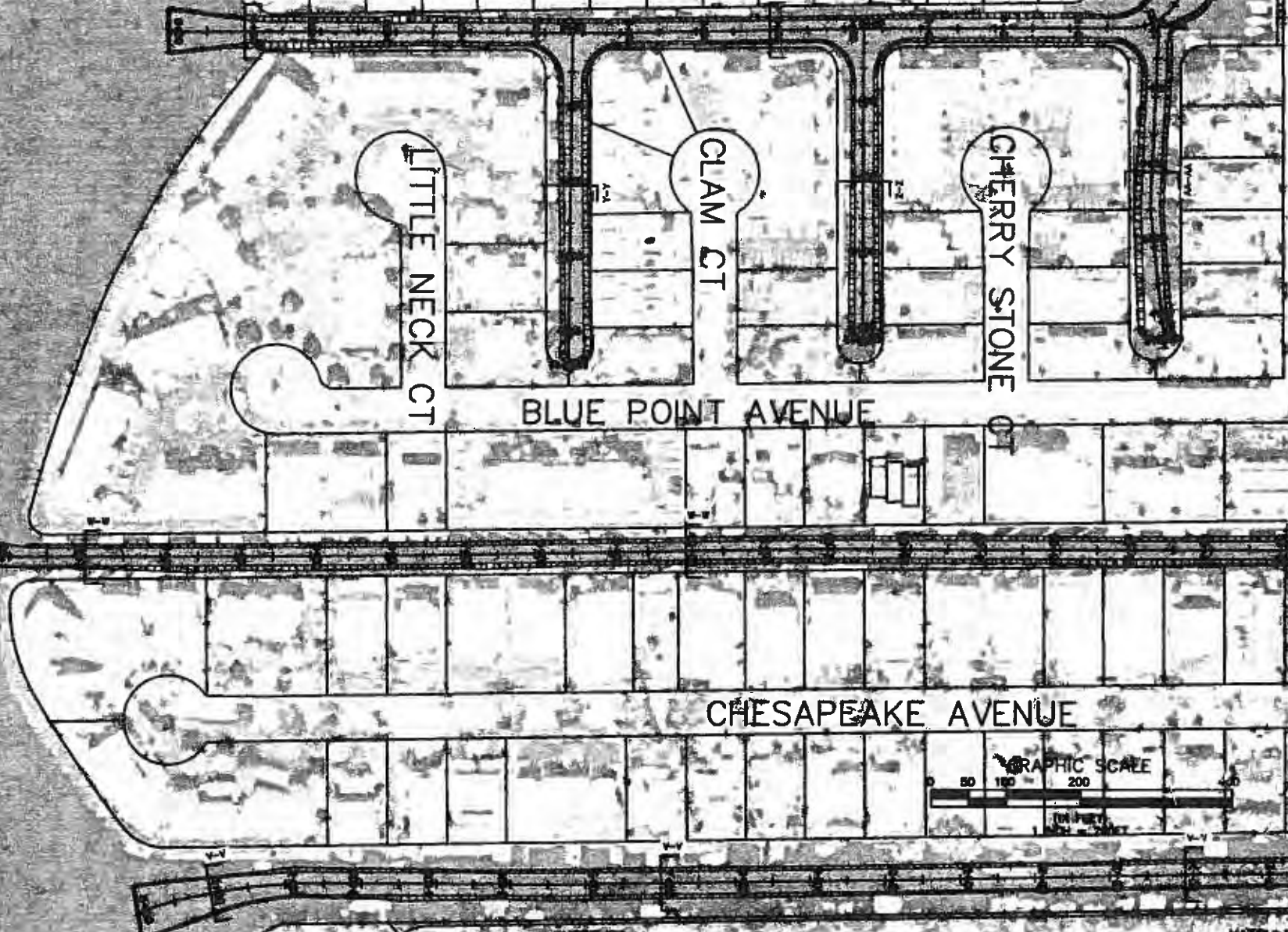


**PBS&J**  
 2525 East Ocean Blvd., Suite 200  
 Naples, Florida 34107  
 Ph. (813) 369-1275

CITY OF NAPLES	EAST NAPLES BAY DREDGING PROJECT	PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL	DATE: 4/3/11	JOB NO. 090044 SHEET 25 DATE 04/05/11 SHEET 25A045
		GOLDEN SHORES		

PELICAN AVENUE SHEET 28  
SHEET 29

MATCH LINE



SAJ-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 1: Figure 10/31

CHESAPEAKE AVENUE



SHEET 29

JEWEL ROY AVENUE

MATCH LINE

**PBS&J**  
6200 West Cypress Street, Suite 200  
Naples, Florida 33907  
PH (941) 263-7275

OWNER	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	DESIGN	PROPOSED DREDGE TEMPLATE	DATE	4/3/09	NO. OF SHEETS	29	TOTAL NO. SHEETS	45
DESIGN				-6.0 MLW							
				OYSTER BAY							

SHEET 28  
SHEET 29

WATCH LINE  
WATCH LINE

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

SHEET 29  
SHEET 30

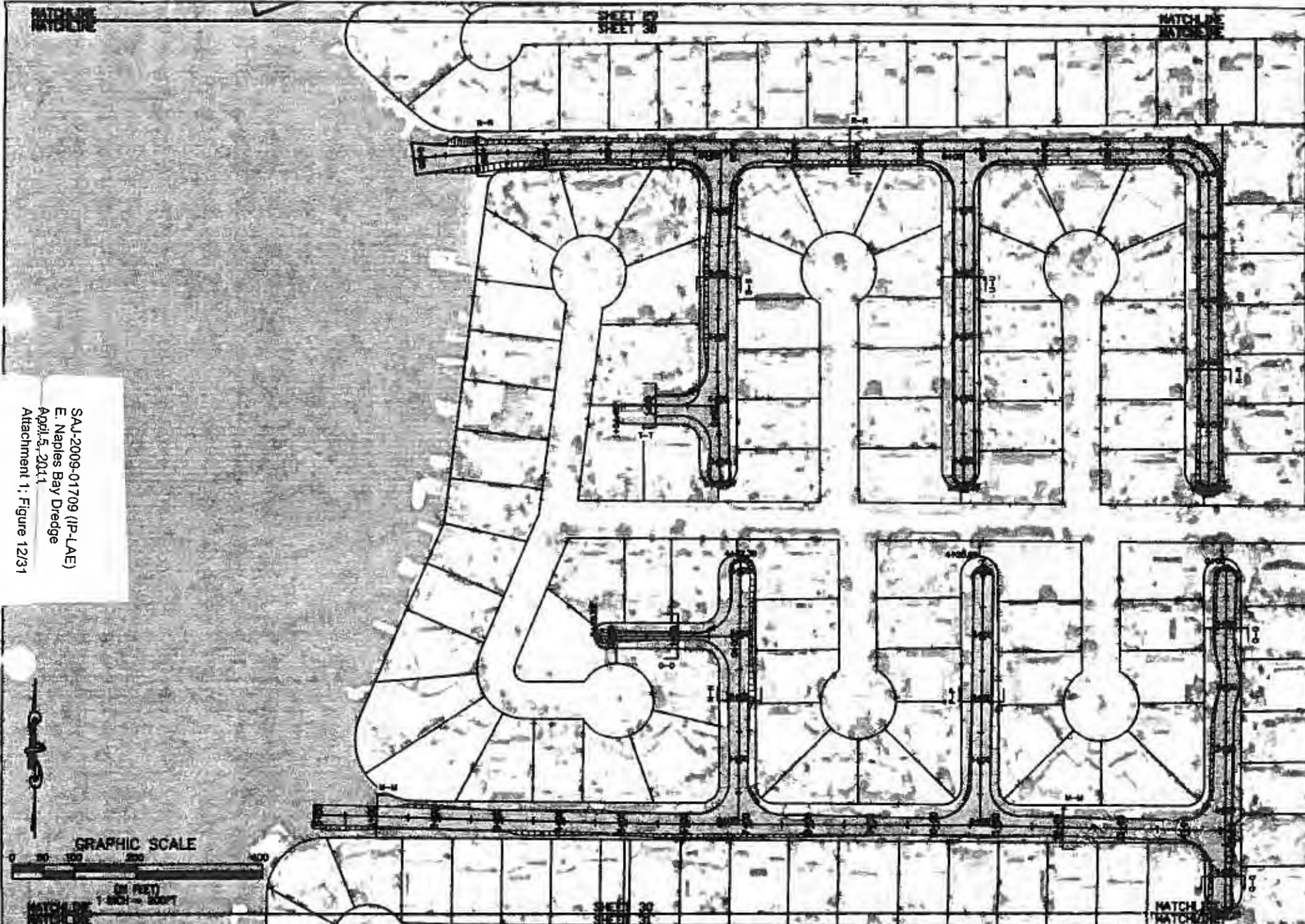
WATCH LINE  
WATCH LINE

SAJ-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 1: Figure T173T




6350 West Cypress Street, Suite 200  
Tampa, Florida 33607  
Ph. (813) 282-7275

CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	DATE	PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL	DESIGN REVISIONS	4/3/09	1. _____ 2. _____ 3. _____ 4. _____	DESIGNED BY DRAWN BY CHECKED BY DATE	SHEET 28aof45
					OYSTER BAY					



SAL-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 12/31



 230 West Central Street, Suite 200 Tampa, Florida 33607 Ph. (813) 288-7055	CLIENT CITY OF NAPLES	PROJECT EAST NAPLES BAY DREDGING PROJECT	WORK PROPOSED DREDGE TEMPLATE	DRAWING NO. 40700	1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____	DATE 04/05/11 DRAWN BY [Signature] CHECKED BY [Signature] DESIGNED BY [Signature]	SHEET 30 OF 45
			DESIGN -6.0 MLW ROYAL HARBOR				



MATCH LINE

SHEET 29  
SHEET 30

MATCH LINE

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL

ROCK REMOVAL



GRAPHIC SCALE



(IN FEET)  
1:5000 = 300FT

MATCH LINE

SHEET 30  
SHEET 31

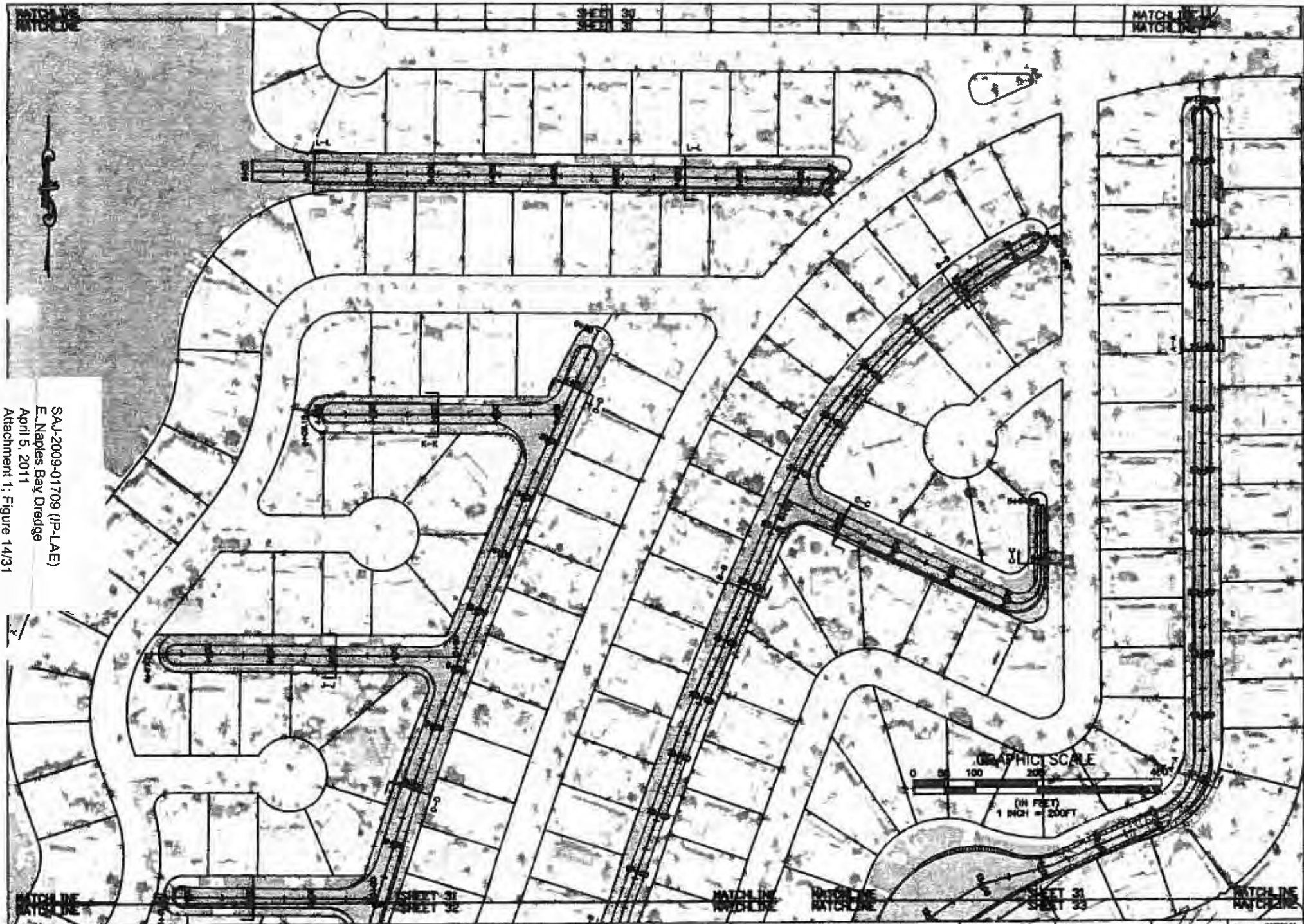
MATCH LINE



CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	TITLE	PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL	DATE	4/5/11	DESIGNED BY		CHECKED BY		DATE	
				ROYAL HARBOR								

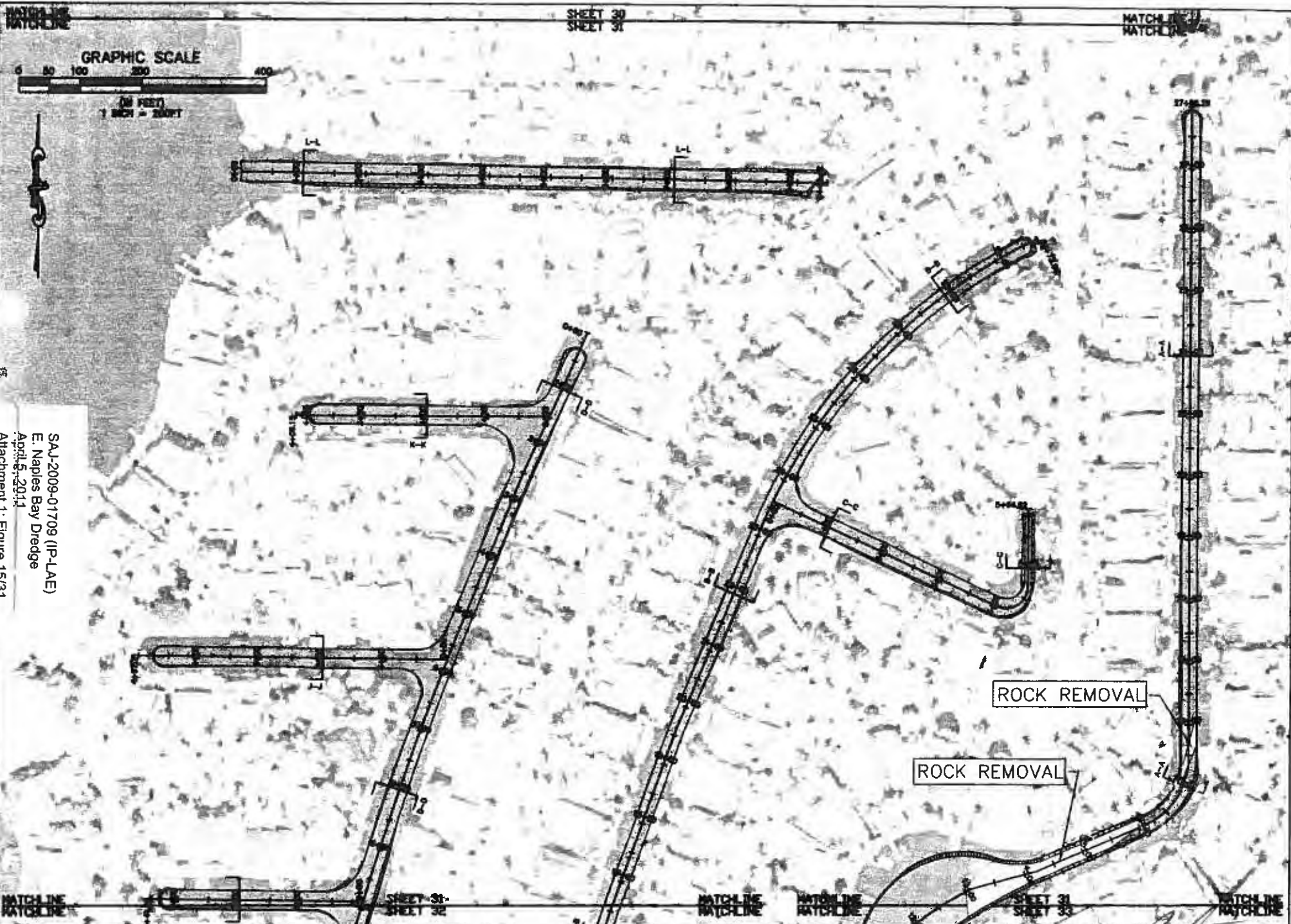
4/5/11  
SHEET 30 of 45

S.A. 2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 1; Figure 13/31



**PBSJ**  
 1200 West Cypress Street, Suite 200  
 Naples, Florida 34107  
 Ph. (214) 340-3275

CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	DESIGN	DESIGN	DATE	1	DATE	1
			-6.0 MLW	ROYAL HARBOR		2		2
						3		3
						4		4
						5		5
						6		6
						7		7
						8		8
						9		9
						10		10
						11		11
						12		12



SHEET 30  
SHEET 31

MATCH LINE  
MATCH LINE



SAJ-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 1: Figure 15/31

ROCK REMOVAL

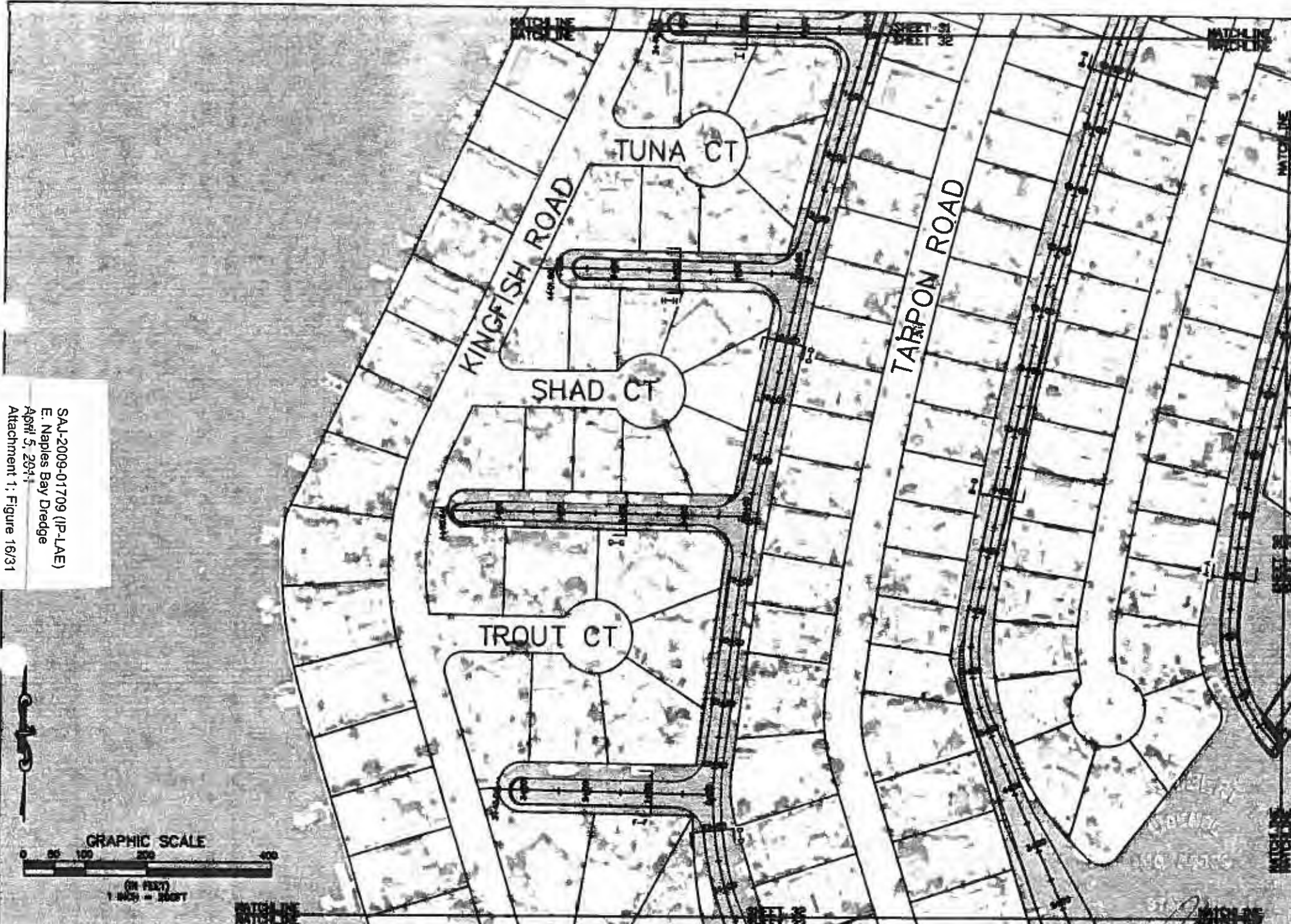
ROCK REMOVAL

MATCH LINE MATCH LINE MATCH LINE MATCH LINE MATCH LINE MATCH LINE MATCH LINE MATCH LINE

**PBSJ**  
6330 West Orange Blvd., Suite 200  
Naples, Florida 34107  
Ph. (813) 282-7275

CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	DATE	PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL
				ROYAL HARBOR

DESIGNED	DATE	5/3/09
CHECKED		
DATE		
APPROVED		
DATE		
JOB NO.	DESCRIPTION	
DATE		
CHECKED		
DATE		
SHEET 31Aof45		



SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 16/31



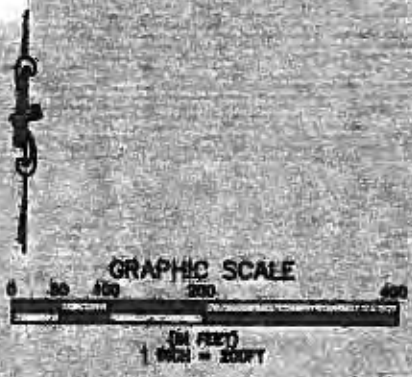
650 West Cypress Street, Suite 200  
 Tampa, Florida 33607  
 Ph. (813) 282-7270

CITY OF NAPLES	EAST NAPLES BAY DREDGING PROJECT	PROPOSED DREDGE TEMPLATE
		DESIGN
		-8.0 MLW
		ROYAL HARBOR

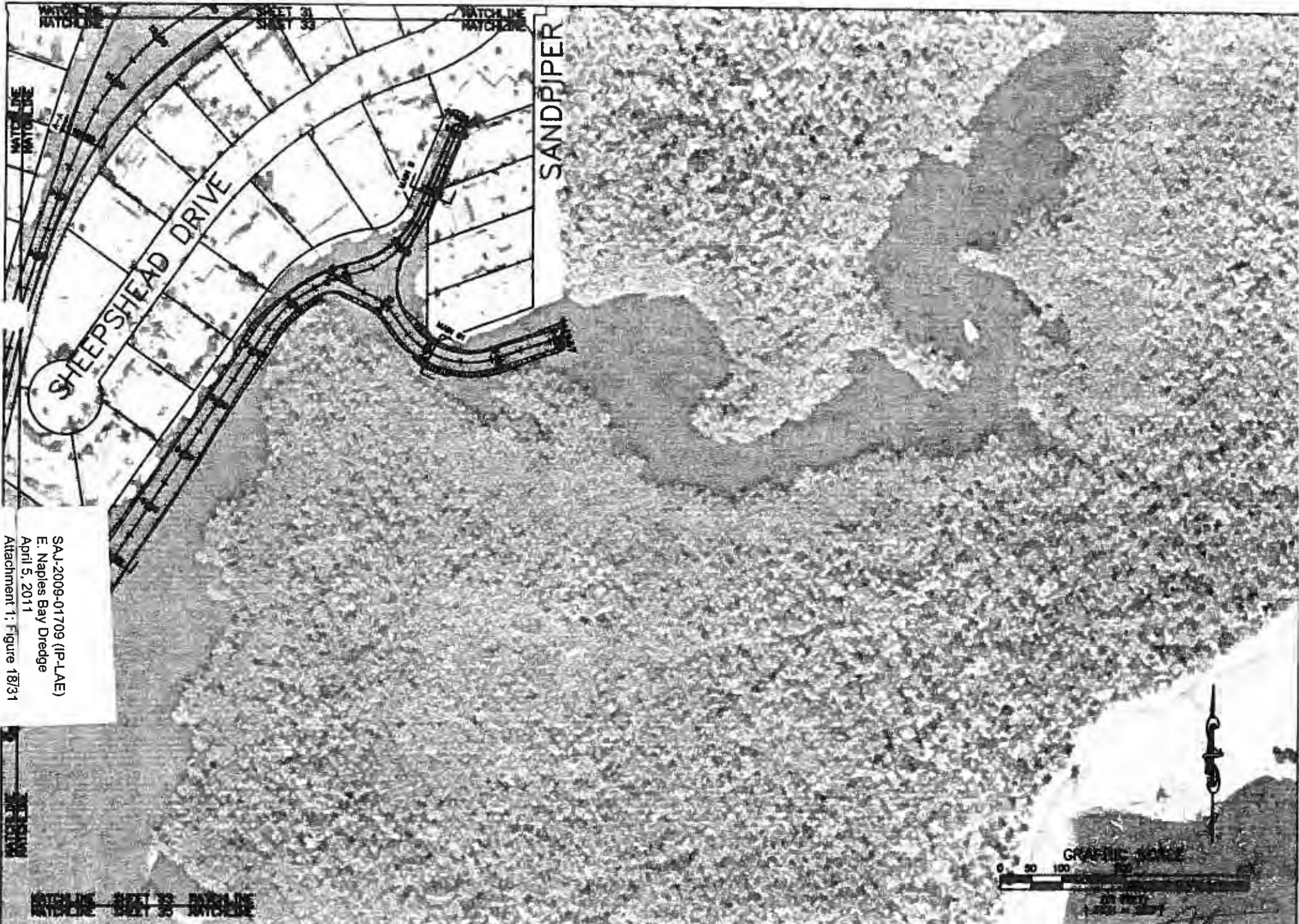
DATE	6/20/11		JOB NO. 0220044
DESIGNER			DATE
CHECKED			DATE
IN CHARGE			DATE
SCALE			DATE



SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 17/31



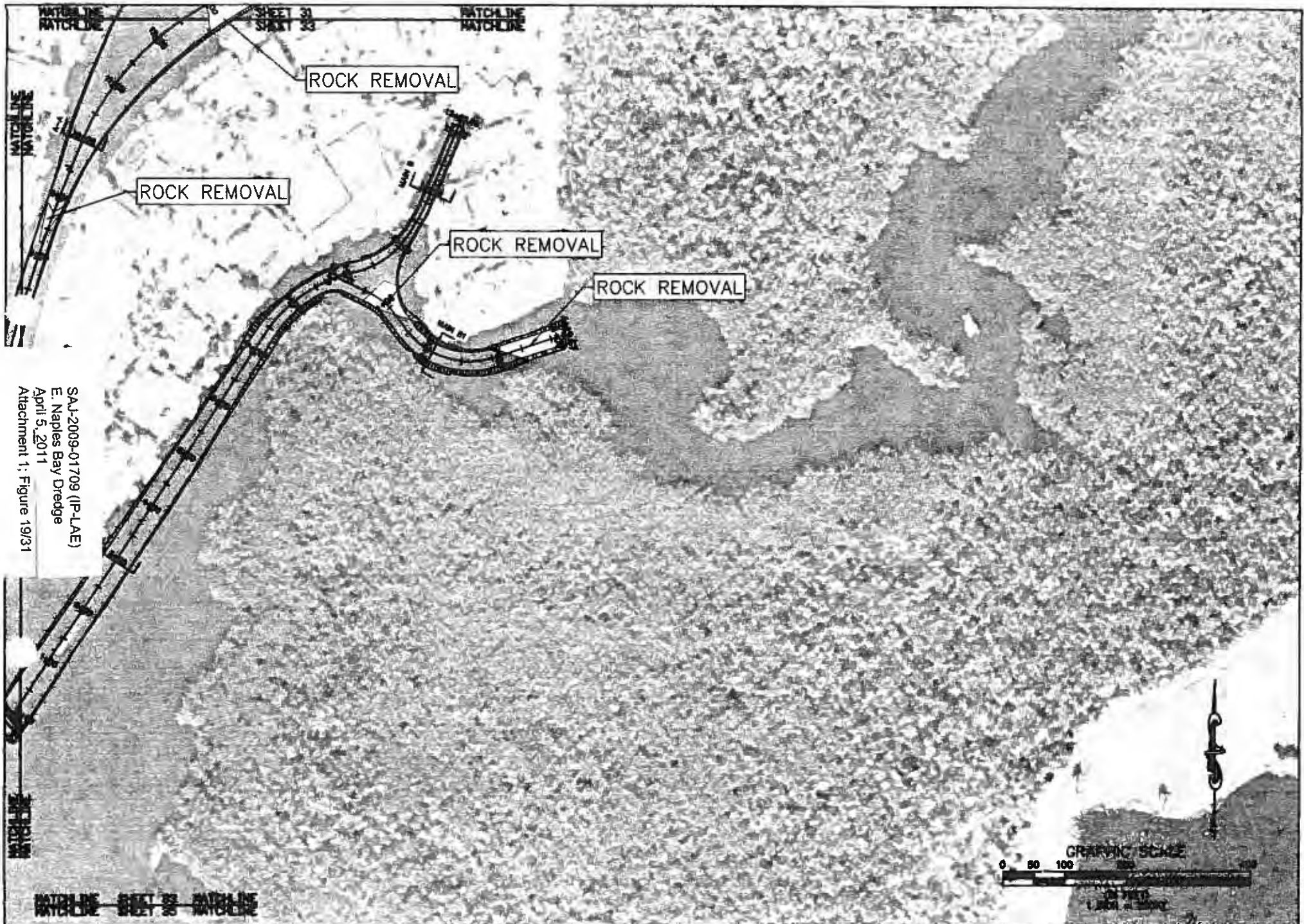
<b>PBSJ</b>	CITY OF NAPLES		PROJECT	EAST NAPLES BAY		SHEET NO.	DATE	DRAWN BY	CHECKED BY	DATE				
				DREDGING PROJECT							SCALE	PROJECT NO.	SHEET NO.	DATE
				PROPOSED DREDGE TEMPLATE										
			AND ROCK REMOVAL		ROYAL HARBOR		SHEET 32 OF 45							



SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 18/31

**PBSJ**  
 6300 West Cypress Street, Suite 200  
 Tampa, Florida 33607  
 Ph. (813) 360-7275

CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGE PROJECT	FOR	PROPOSED DREDGE TEMPLATE DESIGN -6.0 MLW ROYAL HARBOR	ORIGINAL: 4/3/09 1. _____ 2. _____ 3. _____ 4. _____	JOB NO. 090204.01 DRAWN: JET CHECKED: JET DATE: 4/3/09 SHEET 33 of 45
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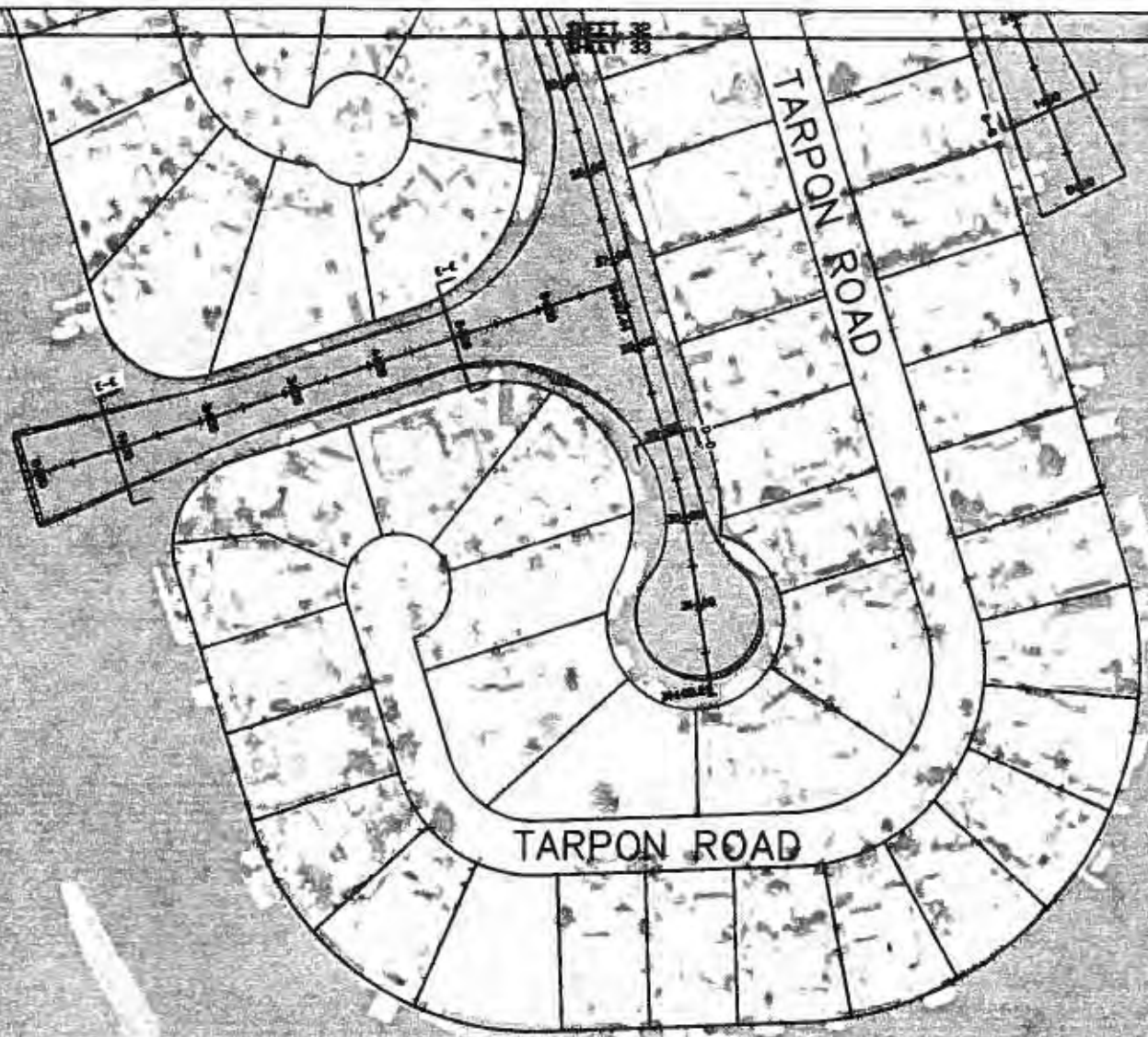
SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1; Figure 19/31



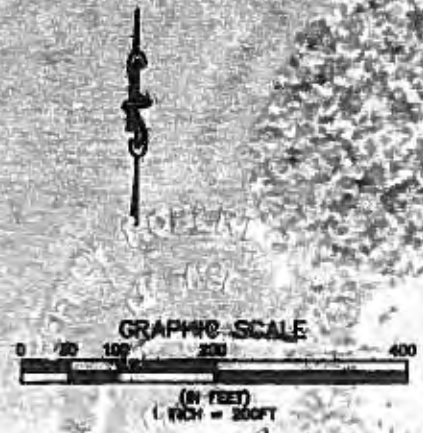
**PBSJ**  
 6300 West Cypress Street, Suite 300  
 Tampa, Florida 33607  
 Ph. (813) 988-7270

CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGE PROJECT	DATE	PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL	ORIGINAL	4/5/09	APP. NO.	09030401
						1		DATE	REV
						2		DATE	REV
						3		DATE	REV
						4		DATE	REV
					ROYAL HARBOR				

SHEET 33A045



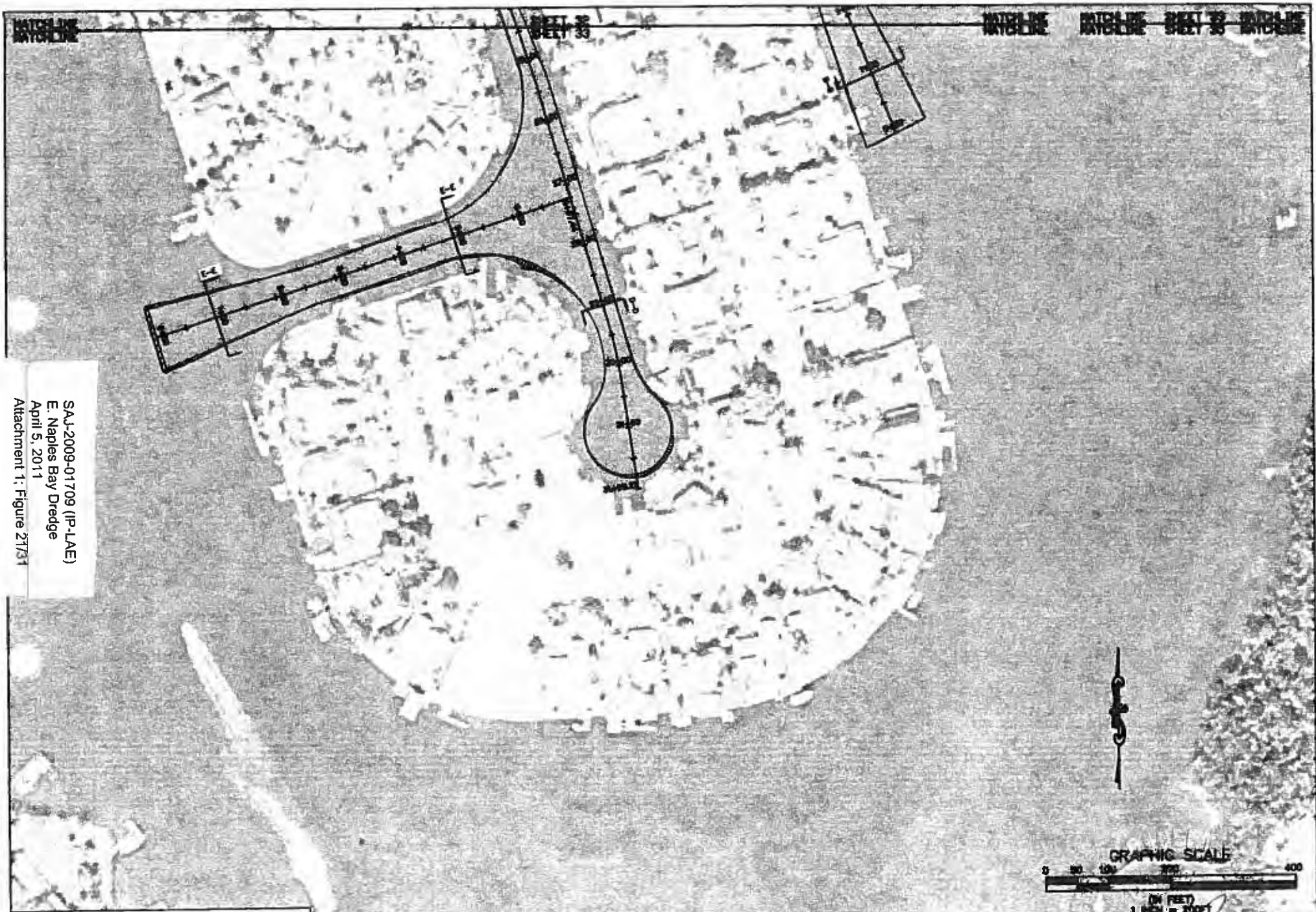
SAA-2009-017709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 20/31



**PBSJ**  
 6200 West Cypress Blvd., Suite 200  
 Tampa, Florida 33607  
 PH: (813) 288-7275

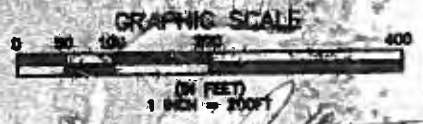
<b>CITY</b>	CITY OF NAPLES	<b>PROJECT</b>	EAST NAPLES BAY DREDGE PROJECT	<b>THIS</b>	PROPOSED DREDGE TEMPLATE	<b>DATE</b>	4/2/11	<b>APP. NO.</b>		<b>APP. BY</b>		<b>APP. DATE</b>	
					DESIGN								
					-5.0 MLW								
					ROYAL HARBOR								



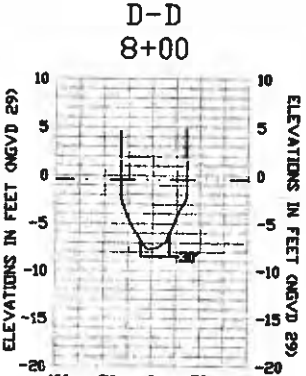
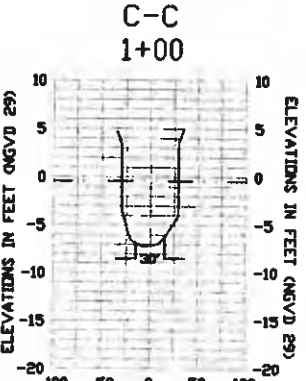
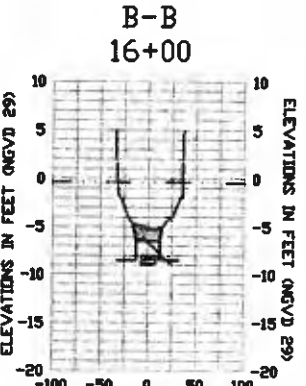
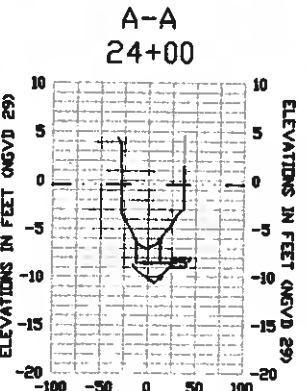
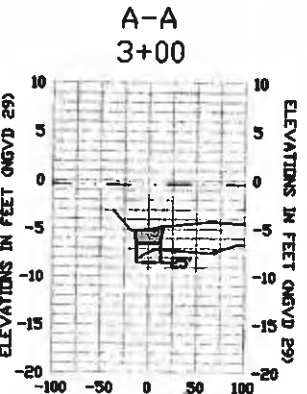
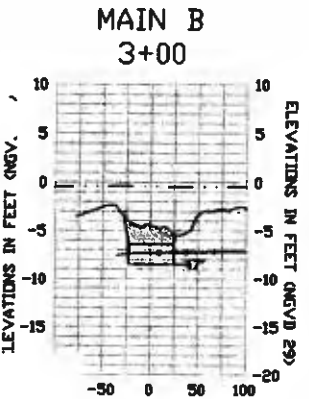
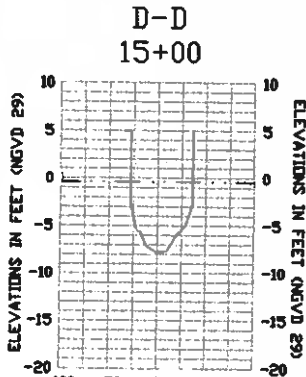
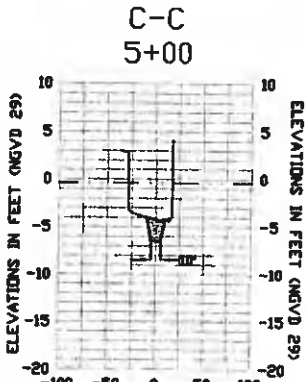
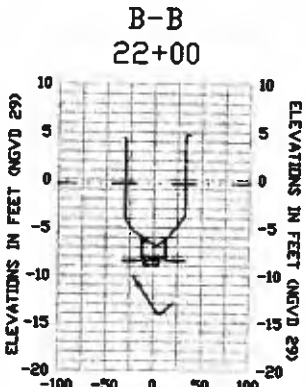
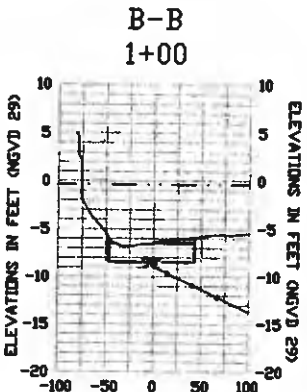
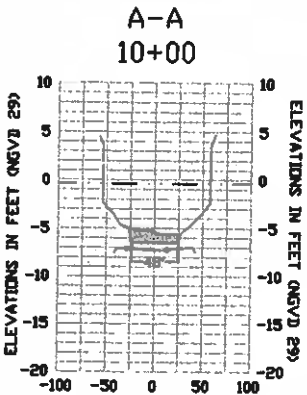
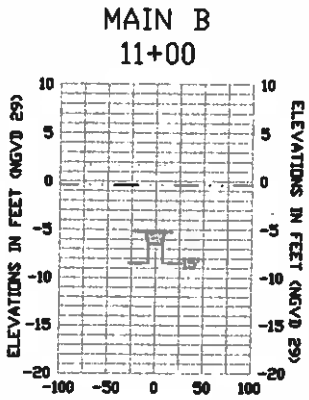
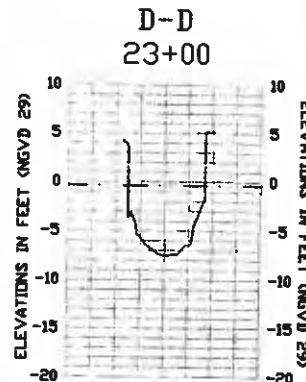
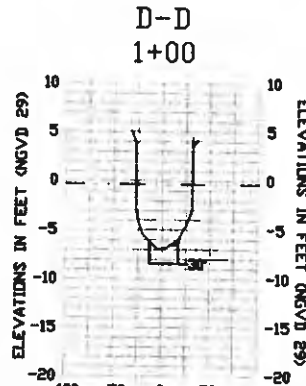
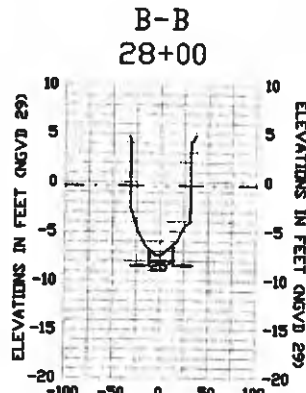
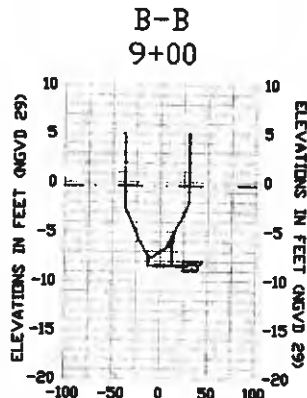
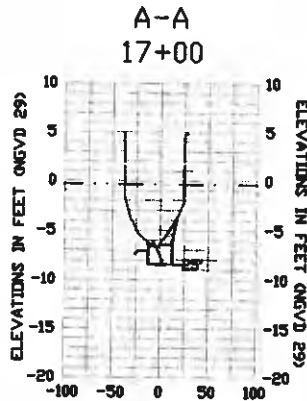
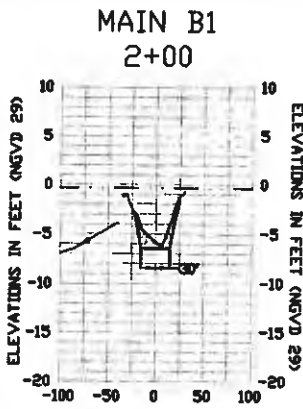


SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 27/31

NOTE: NO PLANNED ROCK REMOVAL



CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGE PROJECT	PROPOSED DREDGE TEMPLATE AND ROCK REMOVAL	DATE	4/5/09	DESIGNED		CHECKED		JOB NO.	03320601
						DRAWN		BY			
						1					
						2					
						3					
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						99					
						100					



NTAL SCALE: 1" = 200'  
AL SCALE: 1" = 20'

MEAN HIGH WATER (1.7' NGVD 29)  
MEAN LOW WATER (-0.4' NGVD 29)

EXISTING GROUND ———  
DREDGE TEMPLATE [shaded area]  
ROCK LAYER [dashed line]

0' MHW — 1.7' NGVD 29  
0' MLW — -0.4' NGVD 29

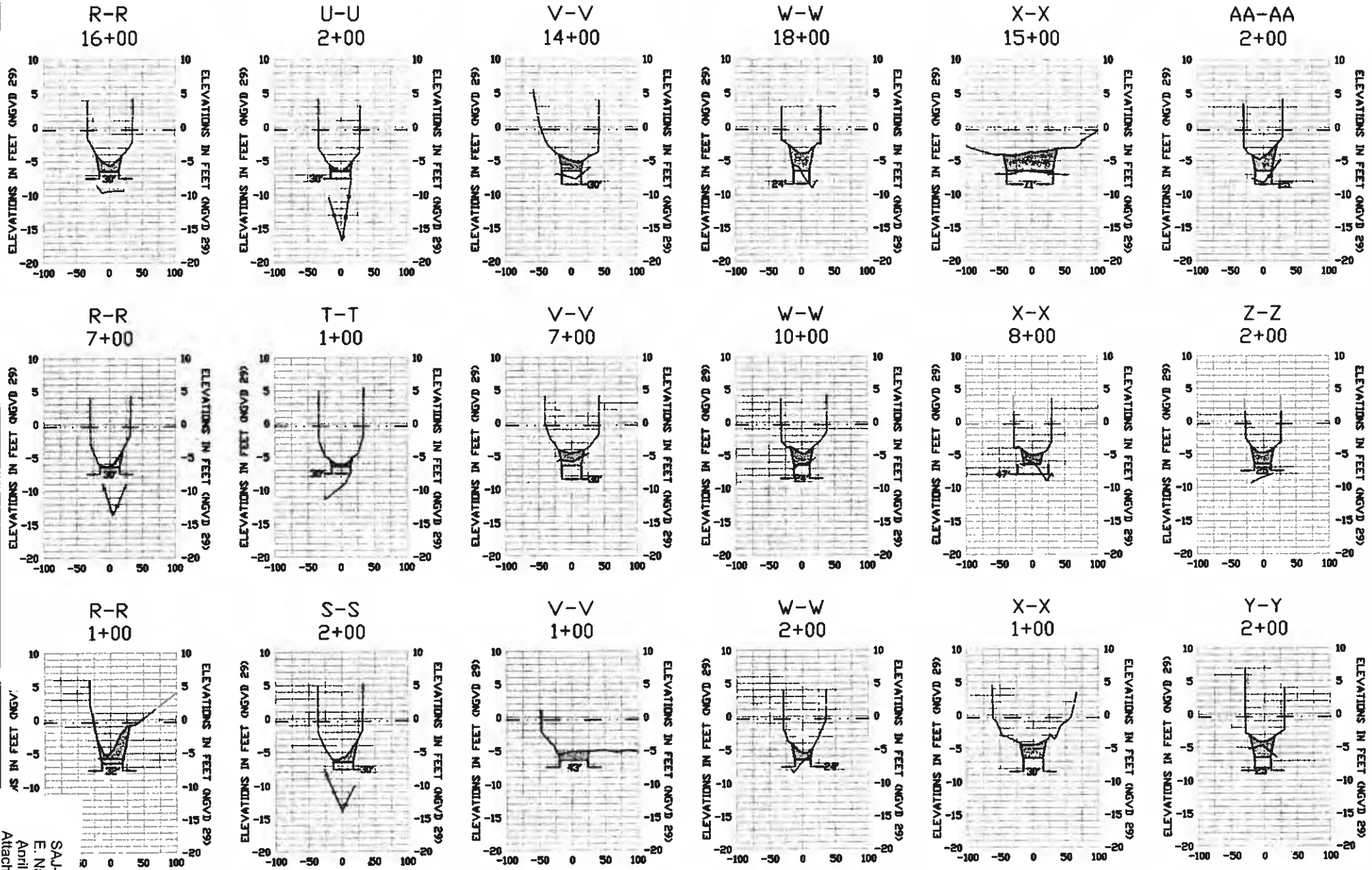


CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	DATE	TYPICAL CROSS SECTIONS

DATE	1/2/09		JOB NO. 0828001 DRAWN BY [initials] P.E. [initials] CHECKED BY [initials] DATE [initials]
DESIGNED BY			
CHECKED BY			
DATE			

SAJ-2009-01709 (P-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 22/31





AS IN FEET NGVD

TAL SCALE: 1" = 200'  
AL SCALE: 1" = 20'

MEAN HIGH WATER (1.7' NGVD 29)  
MEAN LOW WATER (-0.4' NGVD 29)

EXISTING GROUND ————  
DREDGE TEMPLATE ————  
ROCK LAYER ————

0' MHW — 1.7' NGVD 29  
0' MLW — -0.4' NGVD 29

SAJ-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 1; Figure 24/31

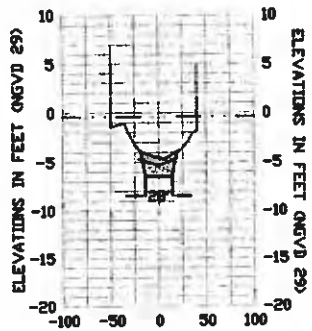


6320 West Orange Ave.  
Tampa, Florida 33607  
Tel: 813-289-7272

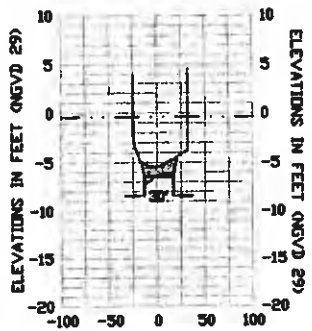
OWNER	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	DATE	TYPICAL CROSS SECTIONS
DESIGNED					
CHECKED					
APPROVED					

DATE	4/2/11		JOB NO. 0908001 DRAWN BY PC CHECKED BY DATE
DESIGNED			
CHECKED			
APPROVED			
SHEET 37 OF 45			

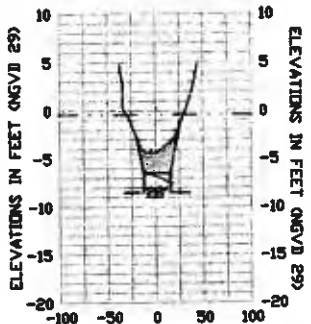
CC-CC  
2+00



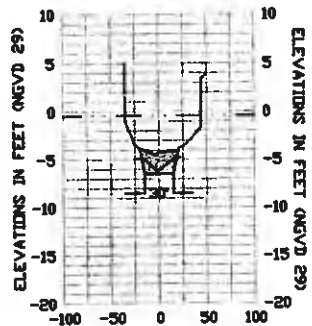
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12+00



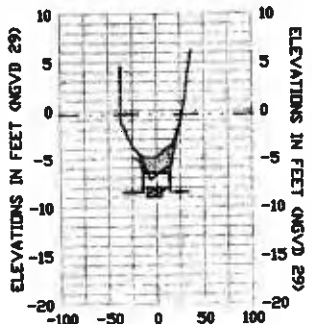
BB-BB  
10+00



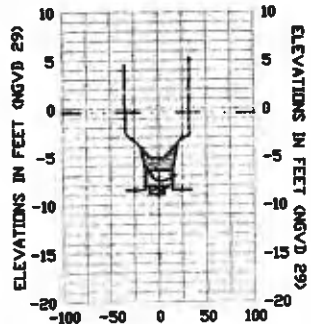
DD-DD  
2+00



BB-BB  
2+00



CC-CC  
13+00



0' MHW - 1.7' NGVD 29  
0' MLW - -0.4' NGVD 29

HORIZONTAL SCALE: 1" = 200'  
VERTICAL SCALE: 1" = 20'

MEAN HIGH WATER (1.7' NGVD 29)  
MEAN LOW WATER (-0.4' NGVD 29)

EXISTING GROUND ————  
DREDGE TEMPLATE [shaded area]  
ROCK LAYER ————

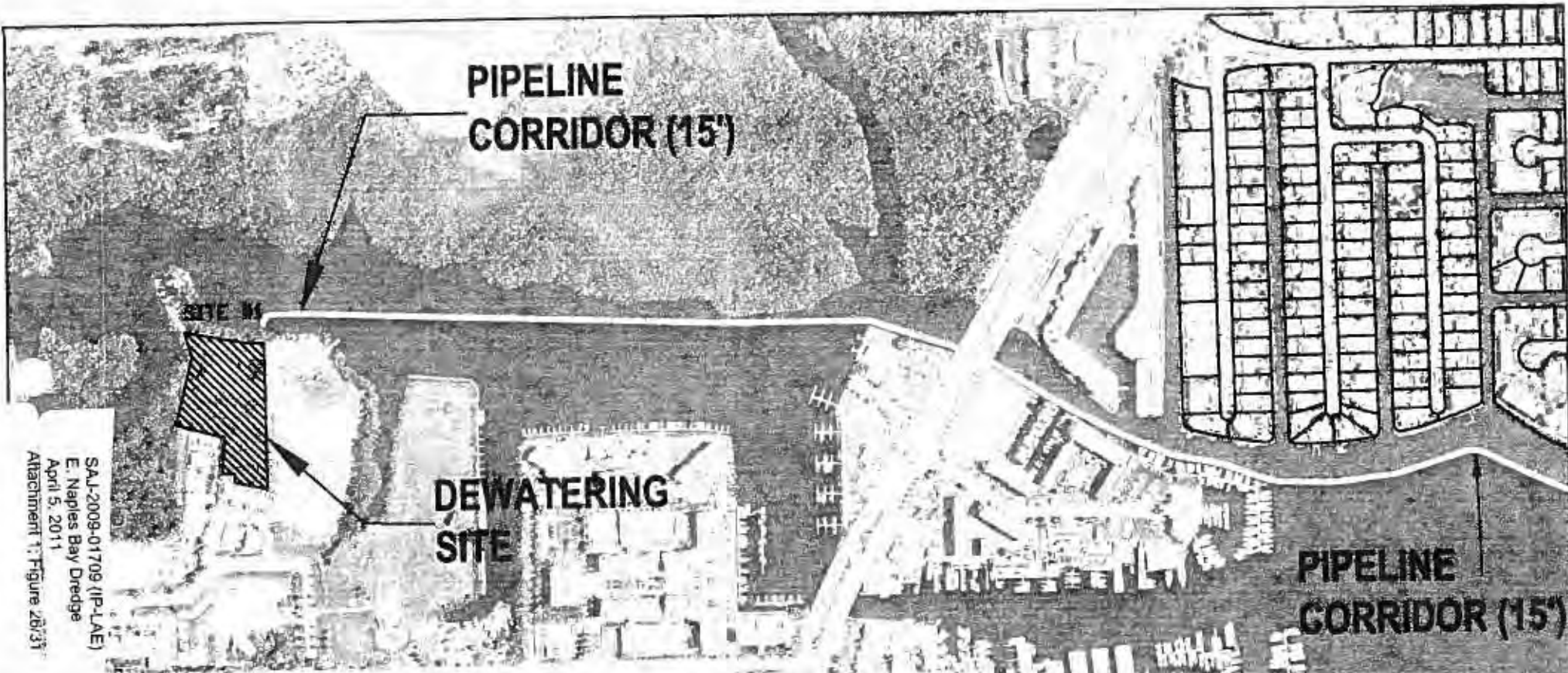


6300 West Orange Street, Suite 200  
Tampa, Florida 33607  
Ph: (813) 288-7276

CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	DATE	TYPICAL CROSS SECTIONS
				DATE	4/2/09
				1.	
				2.	
				3.	
				4.	
				5.	
				6.	
				7.	
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				10.	
				11.	
				12.	

[Signature]  
 DATE: 4/2/09  
 DRAWN BY: [Signature]  
 P.E. [Signature]  
 CHECKED BY: [Signature]  
 D.C. [Signature]  
 SHEET 38 of 45

SAJ-2009-01709 (IP-LAE)  
E: Naples Bay Dredge  
April 5, 2011  
Attachment 1: Figure 25/31



S.A.I.-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 2b/3f



STAGING AND DEWATERING SITES



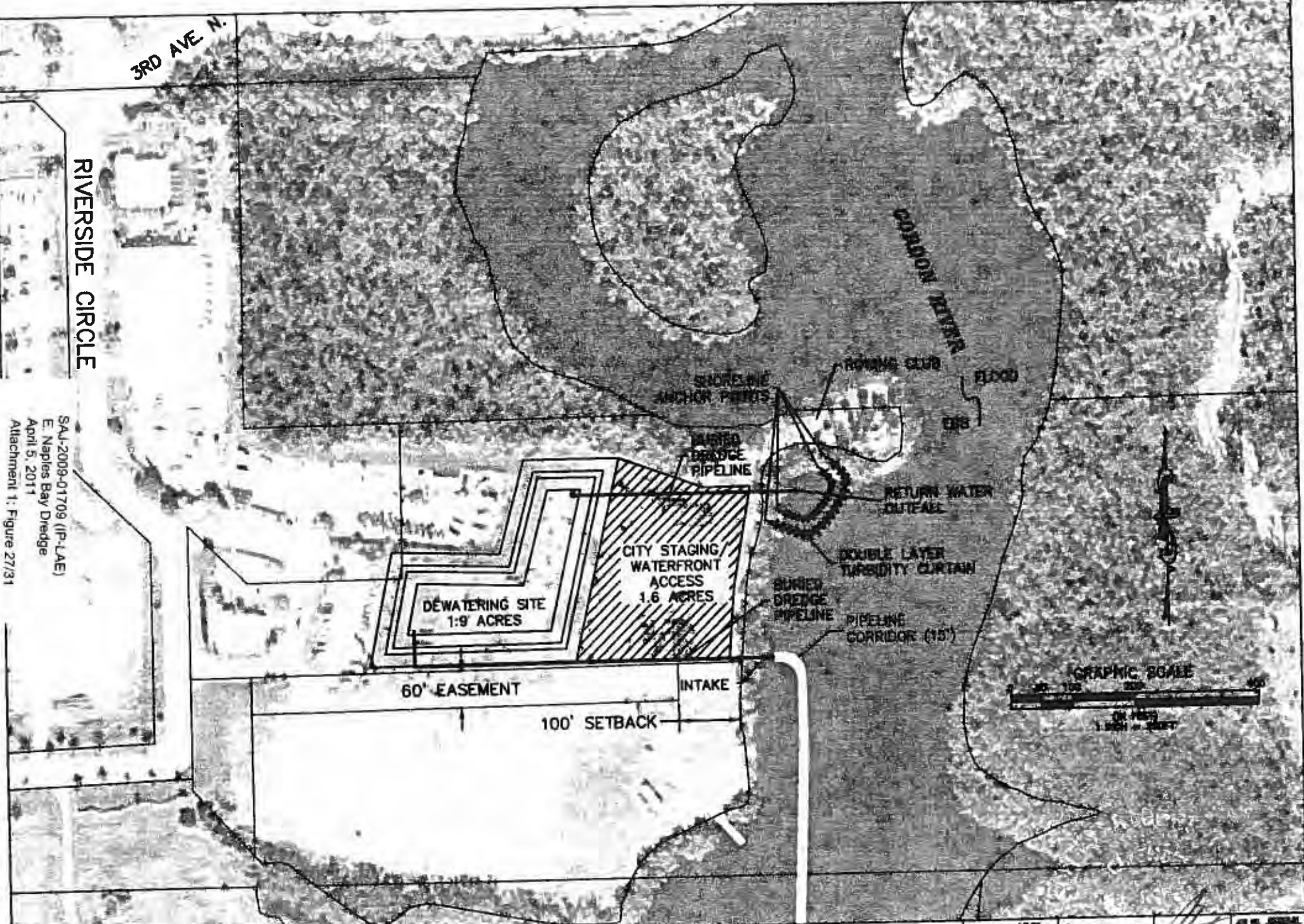
6200 West Orange Blvd., Suite 200  
 Tampa, Florida 33607  
 Ph. (813) 350-7975

OWNER	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	DATE	4/2/11	SHEET 384 OF 45 SHEET 384 OF 45
PROJECT		STAGING AND DEWATERING SITES				
	Site 2					

3RD AVE. N.

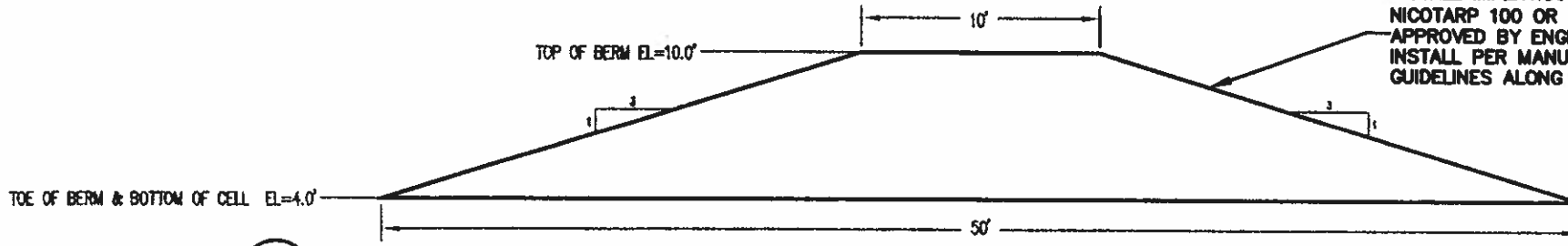
RIVERSIDE CIRCLE

SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 27/31

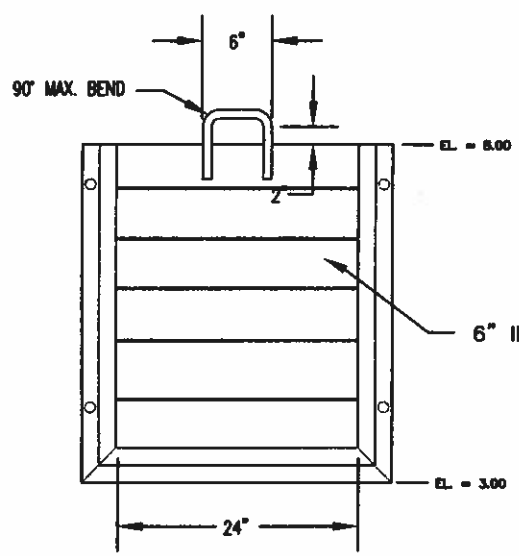


CLIENT CITY OF NAPLES  <i>Site 1</i>	PROJECT EAST NAPLES BAY DREDGING PROJECT	SITE #1 STAGING AND HYDRAULIC DREDGE DEWATERING SITE	DESIGNER _____	DATE _____	JOB NO. GENERAL _____ SHEET _____ SHEET 40 of 45
			CHECKED _____	_____	
			_____	_____	

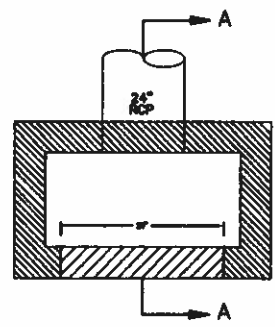
INSTALL IMPERVIOUS LINER (MIRAFI NICOTARP 100 OR SIMILAR) AS APPROVED BY ENGINEER OF RECORD. INSTALL PER MANUFACTURERS GUIDELINES ALONG INTERIOR OF BERM.



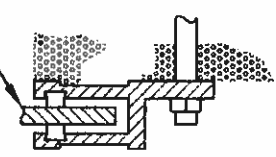
**(A)** BERM CROSS SECTION  
NTS



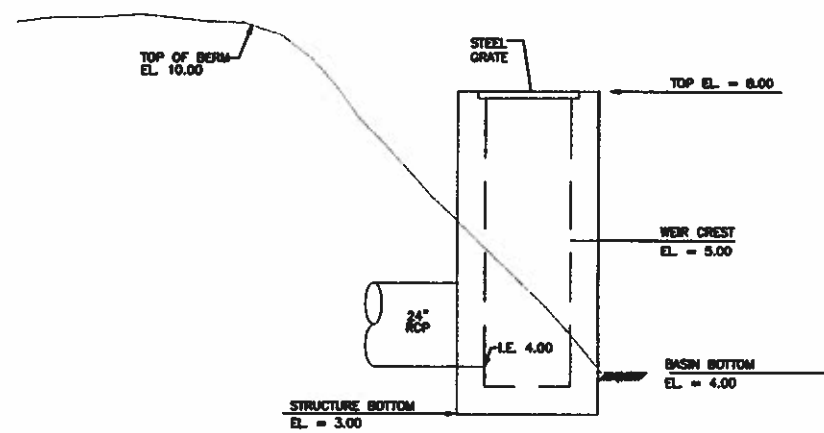
SURFACE MOUNTED STOP GATE  
NTS



PLAN  
NTS




SURFACE MOUNTED STOP GATE PLAN DETAIL  
NTS



SECTION A-A  
NTS

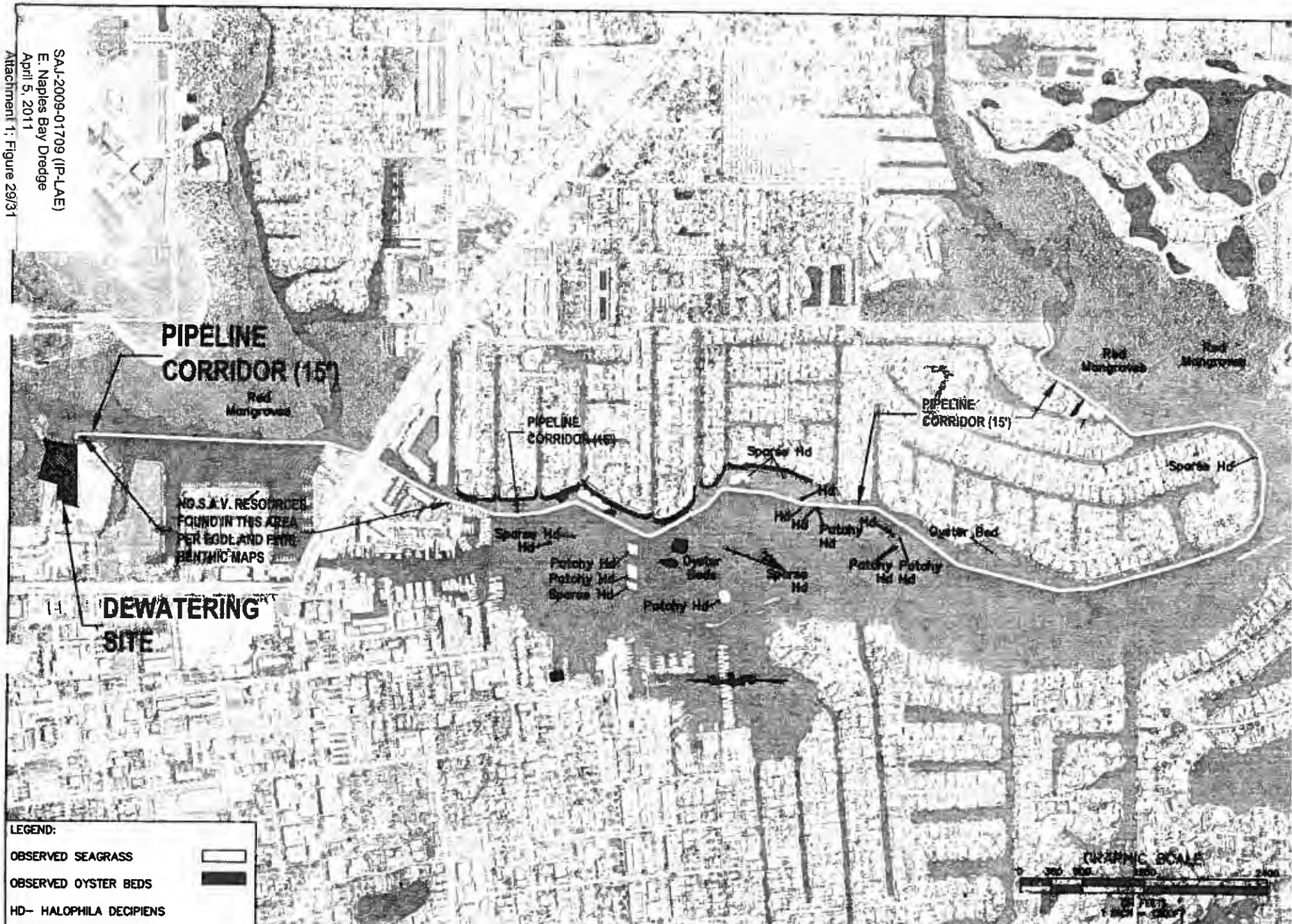
# DISPOSAL SITE CONTROL STRUCTURE MODIFIED TYPE "D" DITCH BOTTOM INLET

F.D.O.T. INDEX No. 232

 <p>1330 West Orange Blvd., Suite 200 Naples, Florida 34107 Tel: (813) 282-7275</p>	CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	DATE	DEWATERING SITE BERM CROSS SECTION & CONTROL STRUCTURE DETAILS	ORIGINAL: 4/2/09 REVISIONS:	1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____	JOB NO. 080201 SHEET 41 of 45
						AERIALS COLLECTED JANUARY 2007			

SAJ-2009-01709 (P-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1; Figure 28/31





**LEGEND:**  
 OBSERVED SEAGRASS [white box]  
 OBSERVED OYSTER BEDS [black box]  
 HD- HALOPHILA DECIPIENS



**PBSJ** 6300 West Cypress Street, Suite 200  
 Tampa, Florida 33607  
 Tel: (813) 282-7278

CITY OF NAPLES	EAST NAPLES BAY

DREDGE PIPELINE CORRIDOR  
 SUBMERGED AQUATIC VEGETATION  
 MAY 2007 AND AUGUST 2007

DATE: 4/2/11

*[Signature]*  
 DATE: 4/2/11

GRAPHIC SCALE



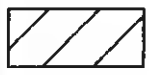
10TH AVENUE SOUTH  
 8TH STREET SOUTH  
 9TH STREET SOUTH  
 11TH AVENUE SOUTH

NAPLES LANDING PARK



SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 30/31

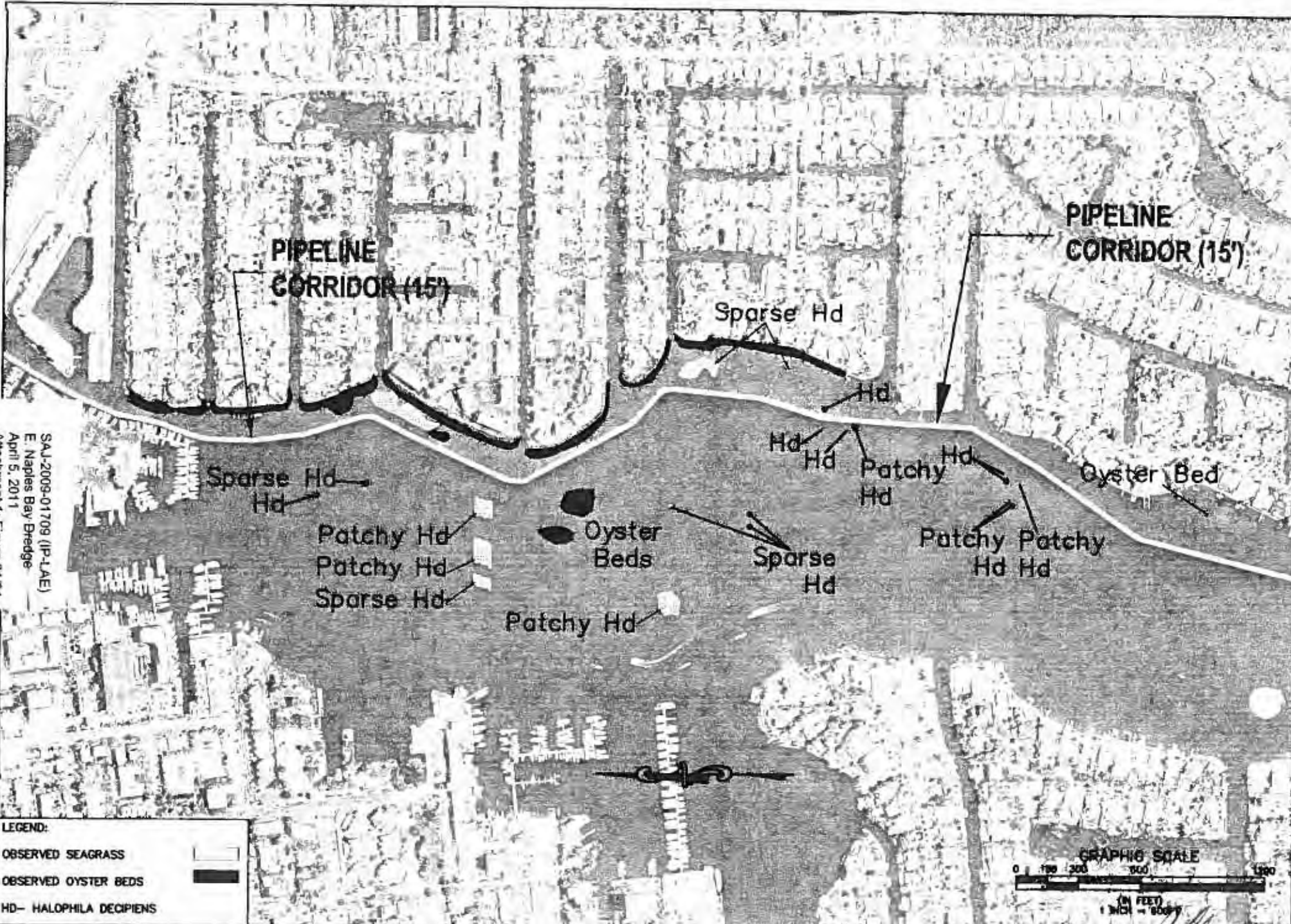
LEGEND:



BARGE AREA FOR OFFLOADING  
 DREDGE MATERIAL TO DUMP TRUCKS

ELEVATIONS IN FEET (NGVD 29)  
 SURVEY DATA PROVIDED BY SFWMD, DATED 2004

<p>6329 West Ocean Street, Suite 250                  Tampa, Florida 33607                  Ph. (813) 282-7275</p>	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	SITE	PLAN VIEW SITE #2 STAGNADN OFFLOADING LOCATION FOR MECHANICAL DREDGING	ORIGINAL REVISIONS: 7/22/09 1. _____ 2. _____ 3. _____ 4. _____	JOB NO. 08320401 DRAWN BY CHECKED BY DATE	SHEET 42 of 45



SAJ-2009-01709 (P-LAE)  
 E Naples Bay Dredge  
 April 5, 2011  
 Attachment 1: Figure 31/31

**LEGEND:**  
 OBSERVED SEAGRASS [white box]  
 OBSERVED OYSTER BEDS [black box]  
 HD- HALOPHILA DECIPIENS

**PBSJ**  
 333 Third Ocean Blvd. Ste 200  
 Naples, Florida 33957  
 Ph. (813) 966-7279

CITY OF NAPLES	EAST NAPLES BAY	DREDGE PIPELINE CORRIDOR	DATE: 5/2/09	1	 SHEET 41B of 45
		SUBMERGED AQUATIC VEGETATION		2	
		MAY 2007 AND AUGUST 2007		3	
				4	
				5	
				6	

## STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2009

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida.
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Awareness signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used (see MyFWC.com). One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 1/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities.

**CAUTION: MANATEE HABITAT**

**All project vessels**

**IDLE SPEED / NO WAKE**

When a manatee is within 50 feet of work  
all in-water activities must

**SHUT DOWN**

Report any collision with or injury to a manatee:

Wildlife Alert:

**1-888-404-FWCC(3922)**

cell \*FWC or #FWC





UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL MARINE FISHERIES SERVICE  
Southeast Regional Office  
263 13th Avenue South  
St. Petersburg, FL 33701

## SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

The permittee shall comply with the following protected species construction conditions:

- a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.
- e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.
- f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

Revised: March 23, 2006

O:\forms\Sea Turtle and Smalltooth Sawfish Construction Conditions.doc



**SELF-CERTIFICATION STATEMENT OF COMPLIANCE**

**Permit Number: SAJ-2009-01709 (IP-LAE)**

Permittee's Name & Address (please print or type): \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Location of the Work: \_\_\_\_\_

Date Work Started: \_\_\_\_\_ Date Work Completed: \_\_\_\_\_

Description of the Work (e.g. bank stabilization, residential or commercial filling, docks, dredging, etc.): \_\_\_\_\_

Acreage or Square Feet of Impacts to Waters of the United States: \_\_\_\_\_

Describe Mitigation completed (if applicable): \_\_\_\_\_

Describe any Deviations from Permit (attach drawing(s) depicting the deviations): \_\_\_\_\_

\*\*\*\*\*

I certify that all work, and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).

\_\_\_\_\_  
Signature of Permittee

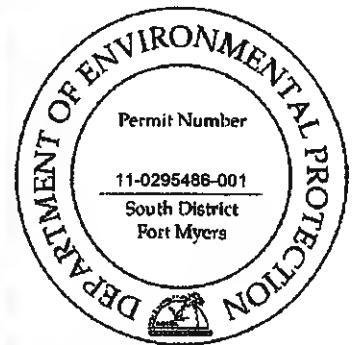
\_\_\_\_\_  
Date

East Naples Bay Dredge Project  
Collier County-ERP  
File No.: 11-0295486-001  
Proposed Alternate Mitigation Summary

Location:

The proposed mitigation areas are located adjacent to three shorelines along the Gordon River/Naples Bay. The first mitigation area is along the western shoreline of the Gordon River under the US41 bridge lat/long (81.790042,26.142010). The second location is located along the eastern shoreline of the Gordon River under the US41 bridge lat/long (-81.786930, 26.140380). The third location is along the seawall next to the Auxiliary Coast Guard Building, Flotilla #93, 1099 9th Street South, Lat/Long (-81.792611, 26.134000), please reference Figure 1.0 location map.

Figure 1.0 Location Map



Current Site Condition:

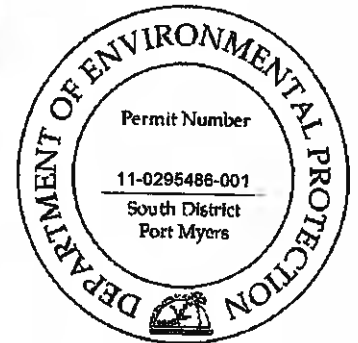
Several site visits were conducted by PBSJ engineers and scientists to document the current condition of the three proposed mitigation areas. At all three areas the current site condition was recorded, photographs taken and a UMAM assessment completed. A meeting was conducted with FDEP staff scientist Arielle Poulos on



May 24<sup>th</sup> 2010. During this meeting it was agreed upon that shoreline restoration would be the best replacement of function for the proposed impacts to seagrass and oyster communities.

### Gordon River Western Shoreline

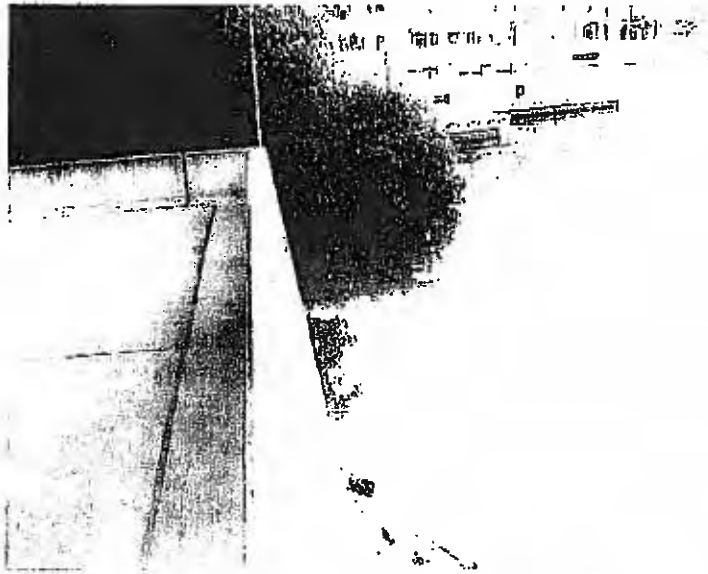
The western shoreline under the US41 bridge currently has a seawall and an upland pedestrian footpath. The shoreline adjacent to the seawall consists of muddy/sandy bottom with scattered clusters of rock and oyster shell. There were no live colonies of oysters observed. There is a large outfall located in the middle of and perpendicular to the seawall. Scattered juvenile fish were observed passing through the area. No vegetation was observed under the bridge due to the limited light availability.



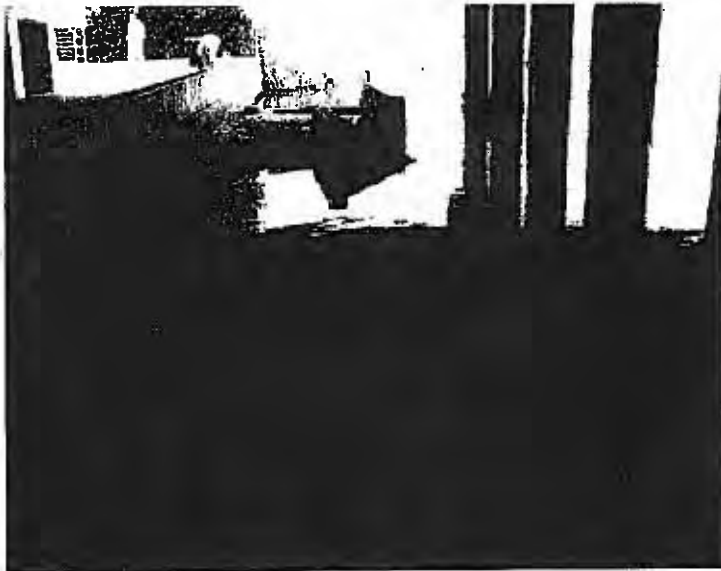
Substrate adjacent to seawall



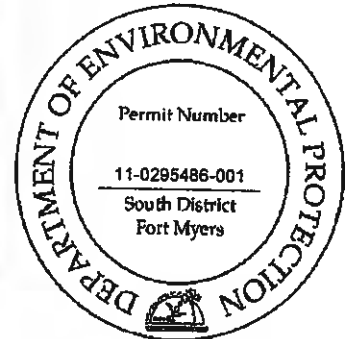
Outfall perpendicular to seawall



Southwest corner of seawall



Seawall looking west



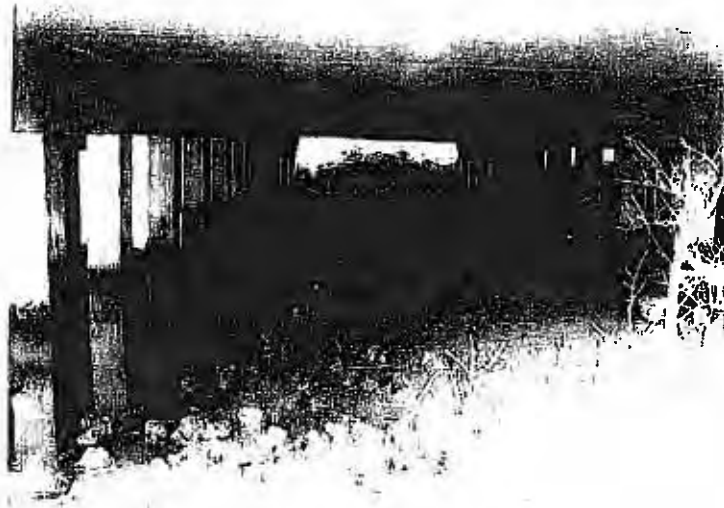
Close-up of outfall structure



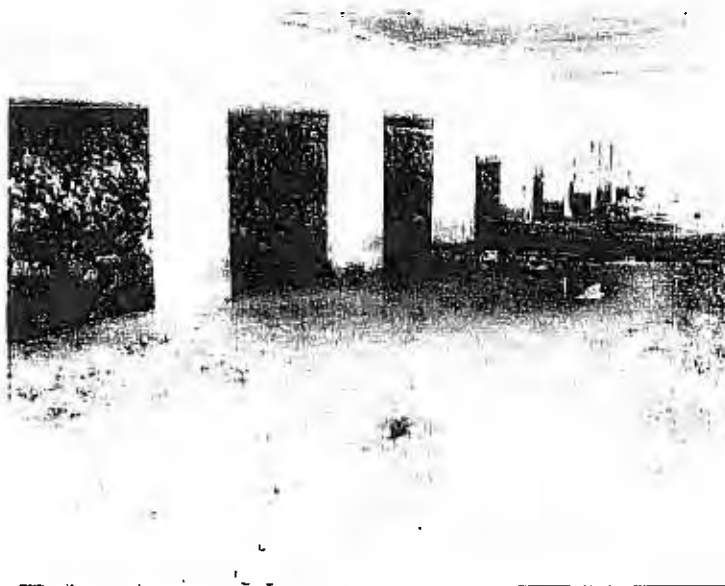
Scattered rocks within the proposed riprap placement area

#### **Gordon River Eastern Shoreline**

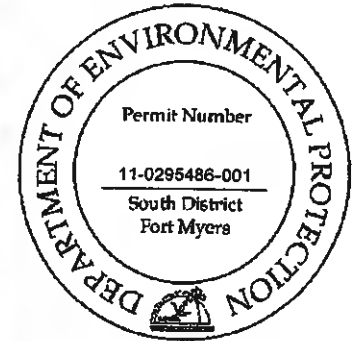
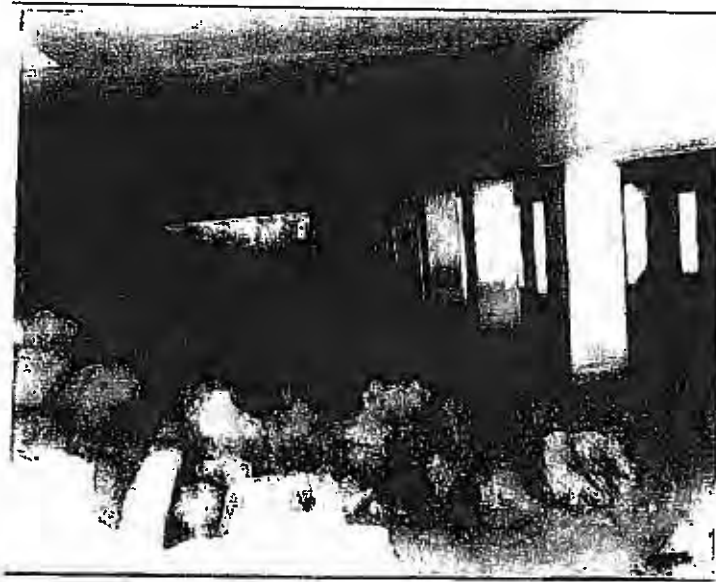
The eastern shoreline under the US41 bridge currently has riprap extending from the bridge support to above the mean high water line. Waterward of the riprap and above the mean high water line is sandy sediment with scattered rocks. Waterward of the mean high water line is scattered rocks and oyster shells no live colonies of oysters observed. A few small mangrove saplings were observed along the shoreline but outside the footprint of the bridge. The low height of the bridge approach is limiting light availability and therefore precluding vegetative growth.



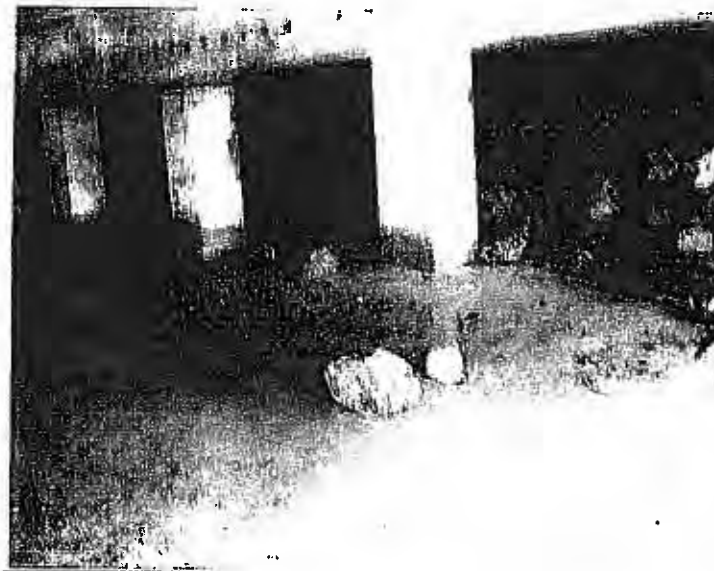
Shoreline from MHW line waterward



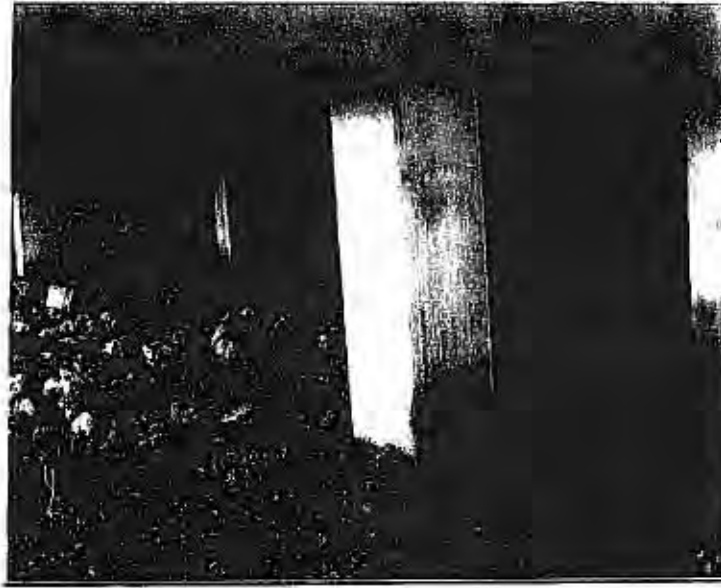
Shoreline from MHW line waterward, showing existing riprap



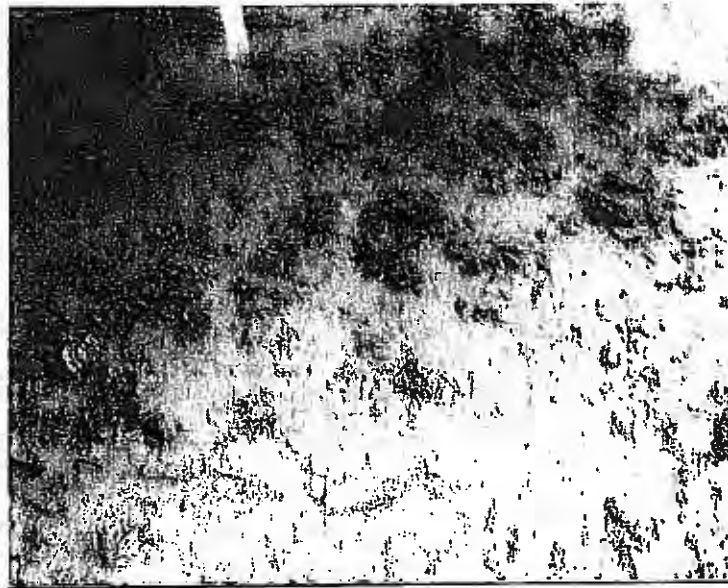
Existing riprap



Sandy sediments waterward of riprap



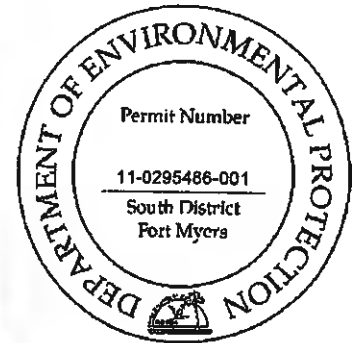
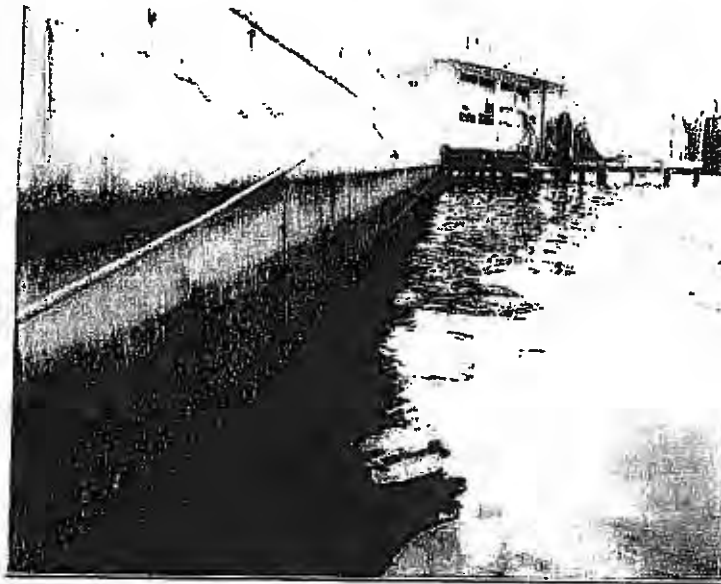
Facing west



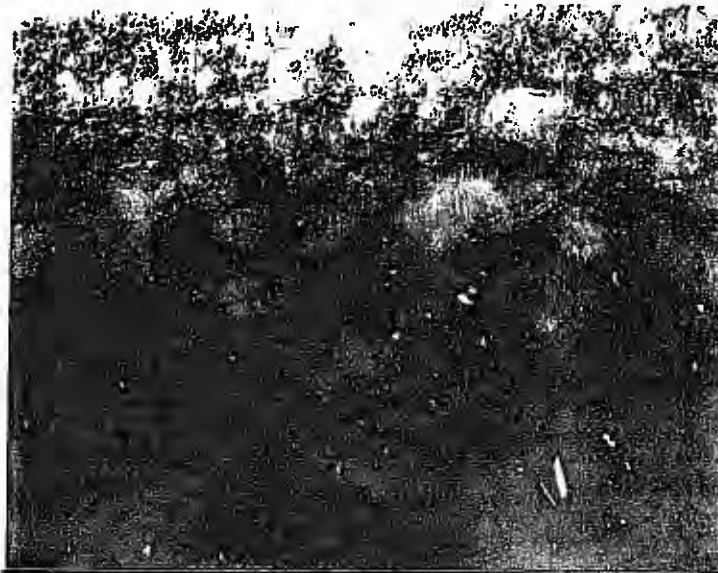
Scattered oyster shells

#### **Auxiliary Coast Guard Building seawall**

There is an existing seawall along the shoreline adjacent to the Auxiliary Coast Guard building. The submerged bottom adjacent to the wall consists of coarse sediment and scattered rocks. Oysters have colonized on the seawall but no live beds were observed within the sediment. Scattered juvenile fish were observed passing through the area. No mangroves or submerged aquatic vegetation was observed along the wall due to restrictive water depths and light penetration.



Seawall proposed for mitigation (placement of riprap)

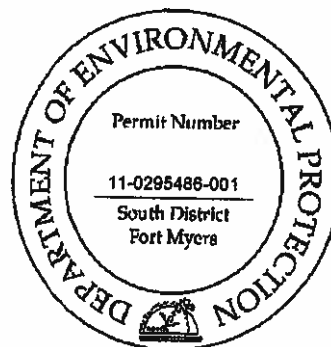


Oysters currently colonized on seawall

**Proposed Mitigation Plan:**

The three assessment areas proposed for mitigation include enhancing shoreline habitat to improve the habitat value and water quality of the immediate areas within the Gordon River/East Naples Bay. The western shoreline along the Gordon River under US41 includes 0.04 acres of submerged habitat. The eastern shoreline under the US41 bridge also include 0.04 acres and the Coast Guard seawall includes 0.02 acres of submerged habitat creation. The proposed activity includes placing riprap starting at the seawall and extending 10 feet waterward. Along the eastern shoreline there is no existing seawall therefore the rock will be placed from the toe of the existing rock to 10 feet beyond the Mean High Water line elevation. The riprap will consist of 12"-16" diameter armoring stone and will be placed at a 4:1 slope (see the plan set for additional details). The riprap will be placed from the uplands using a front loader. Floating turbidity barriers will be installed around the work area is necessary to assure that turbidity levels do not exceed 29 NTU's above background.

The riprap will provide increased habitat for fish and crabs utilizing the area and will increase the likelihood of oyster colonization due to the additional interstitial space. The potential colonization of oysters will improve water quality in the surrounding area.









SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 5, Page 11/20

**PBSJ**  
 630 Shell Bay Sound Blvd., # 200  
 Naples, Florida 34107  
 FL (813) 262-7272

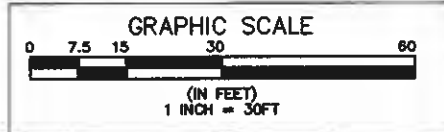
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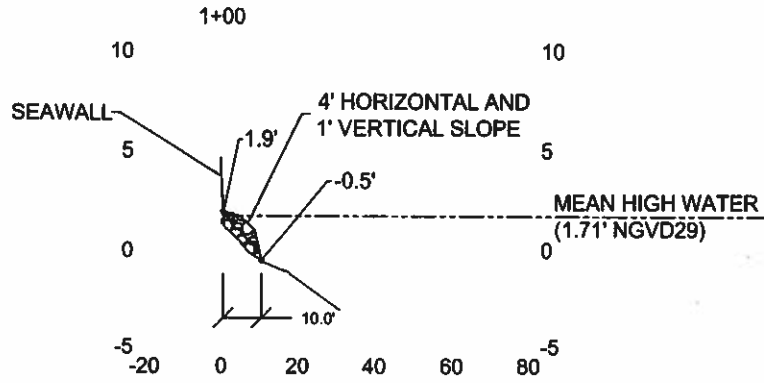
SAJ-2009-01709 (P-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 5: Page 13/20

**NOTES:**  
 - ELEVATIONS IN NGVD29  
 - POINTS REFERENCE EXISTING GROUND BELOW THE US 41 BRIDGE  
 - ALL WORK TO OCCUR UNDERNEATH US 41 BRIDGE  
 - AERIAL SHOWN FOR ILLUSTRATION ONLY



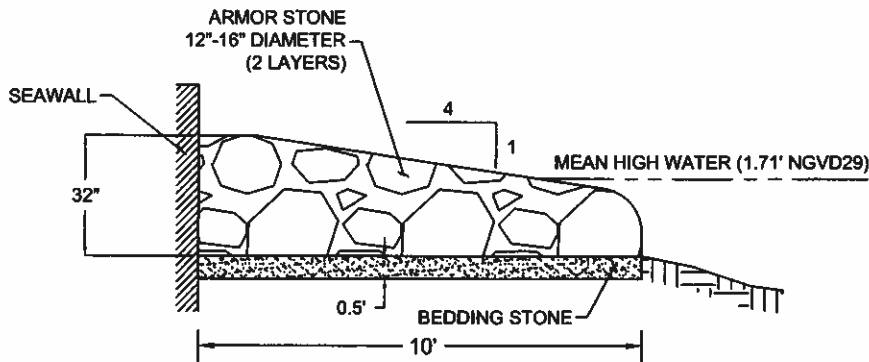
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						REVISIONS:	1. _____	7. _____	DRAWN: MGS
						2. _____	8. _____	8. _____	PE: JRT
						3. _____	9. _____	9. _____	CHECKED: JLP
						4. _____	10. _____	10. _____	OC: JRT
						5. _____	11. _____	11. _____	APPROVED BY: [Signature]
						6. _____	12. _____	12. _____	SHEET 03 of 14

TYPICAL CROSS SECTION

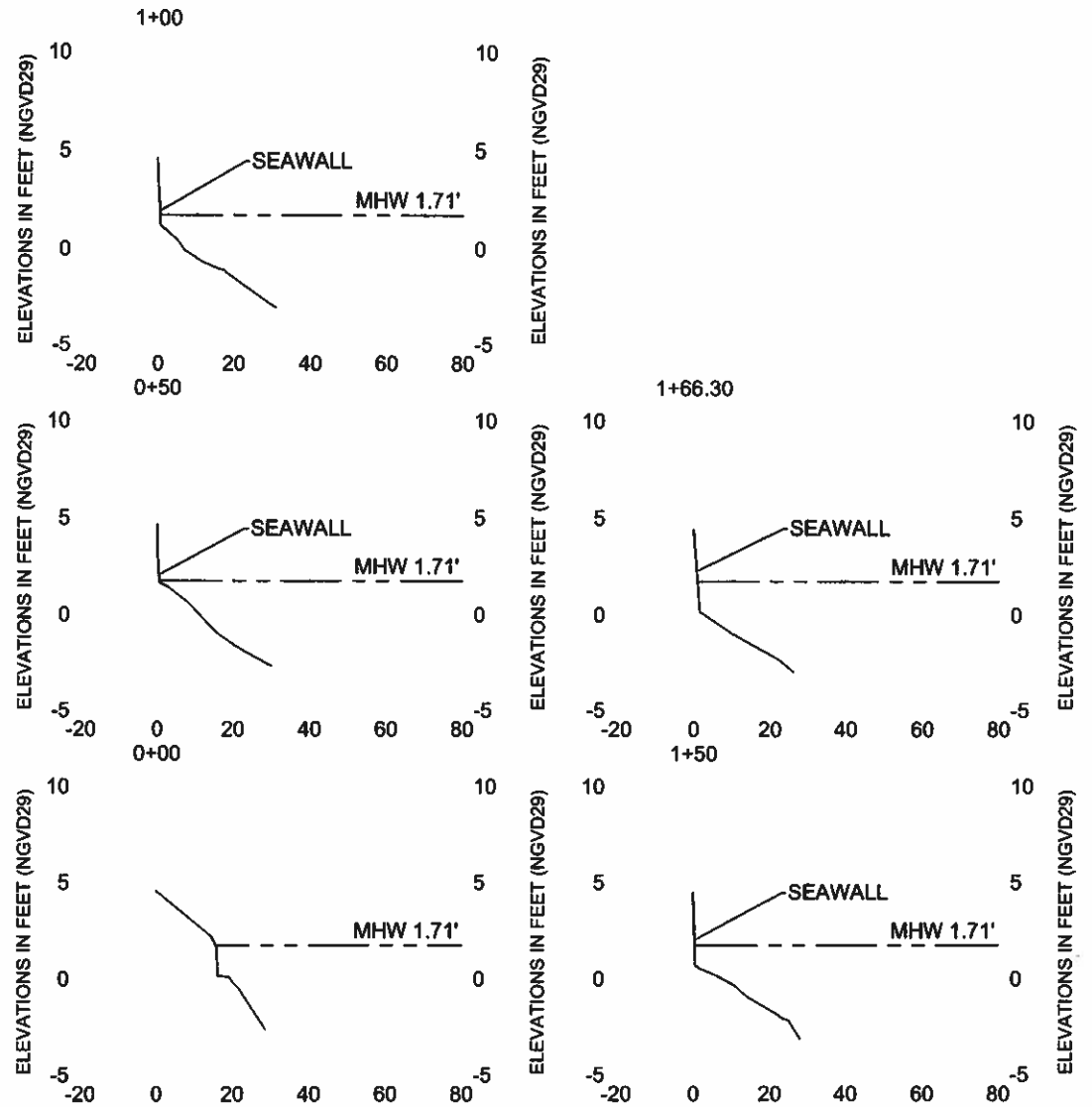


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HORIZONTAL SCALE 1"=50'

RIPRAP CONSTRUCTION DETAILS



N.T.S.



VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

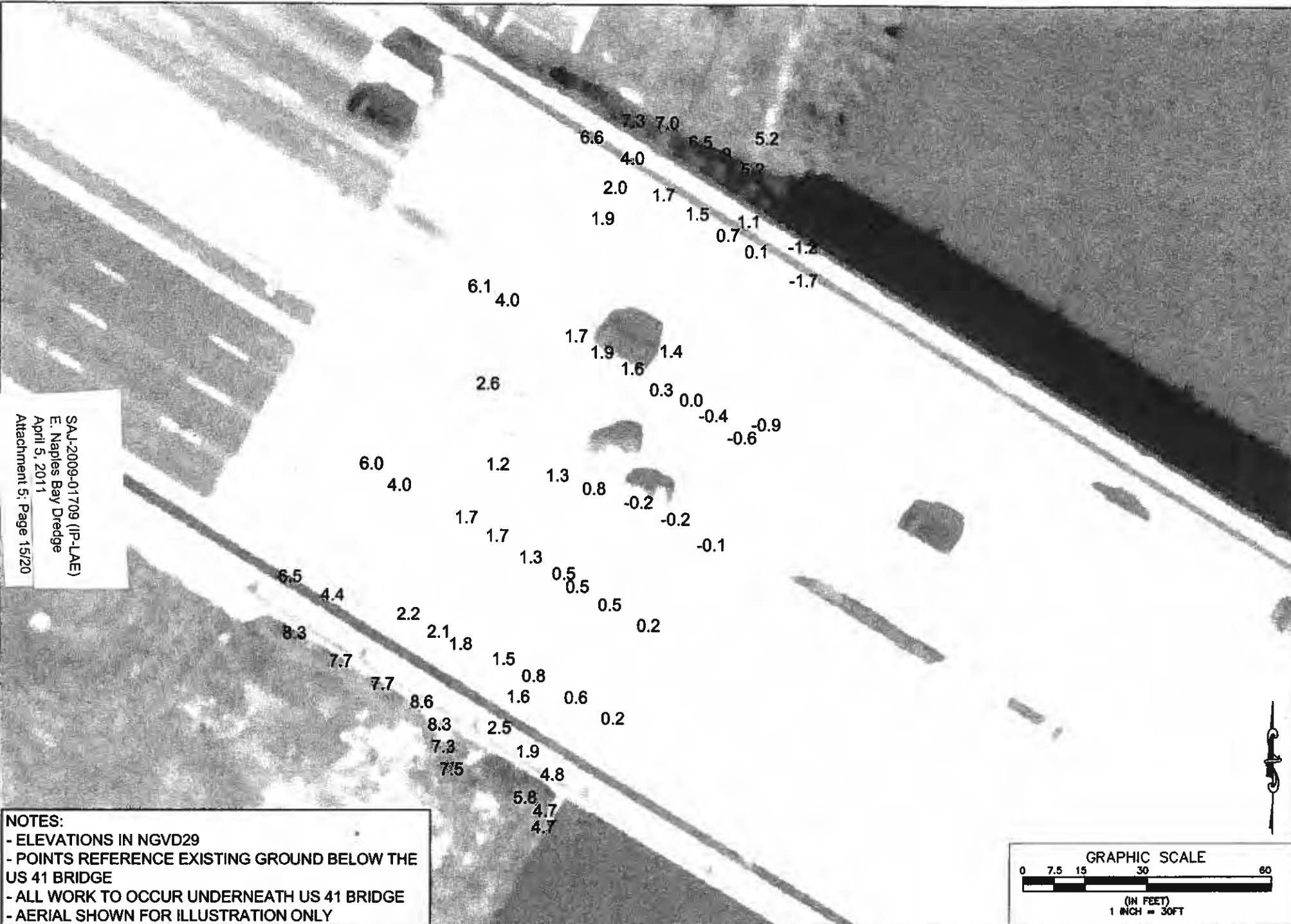
SAJ-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 5; Page 14/20



4030 West Bay Street Blvd, St 700  
Tampa, Florida 33607  
FL (813) 282-7275

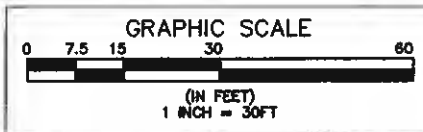
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DATE					

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REVISIONS:		2		
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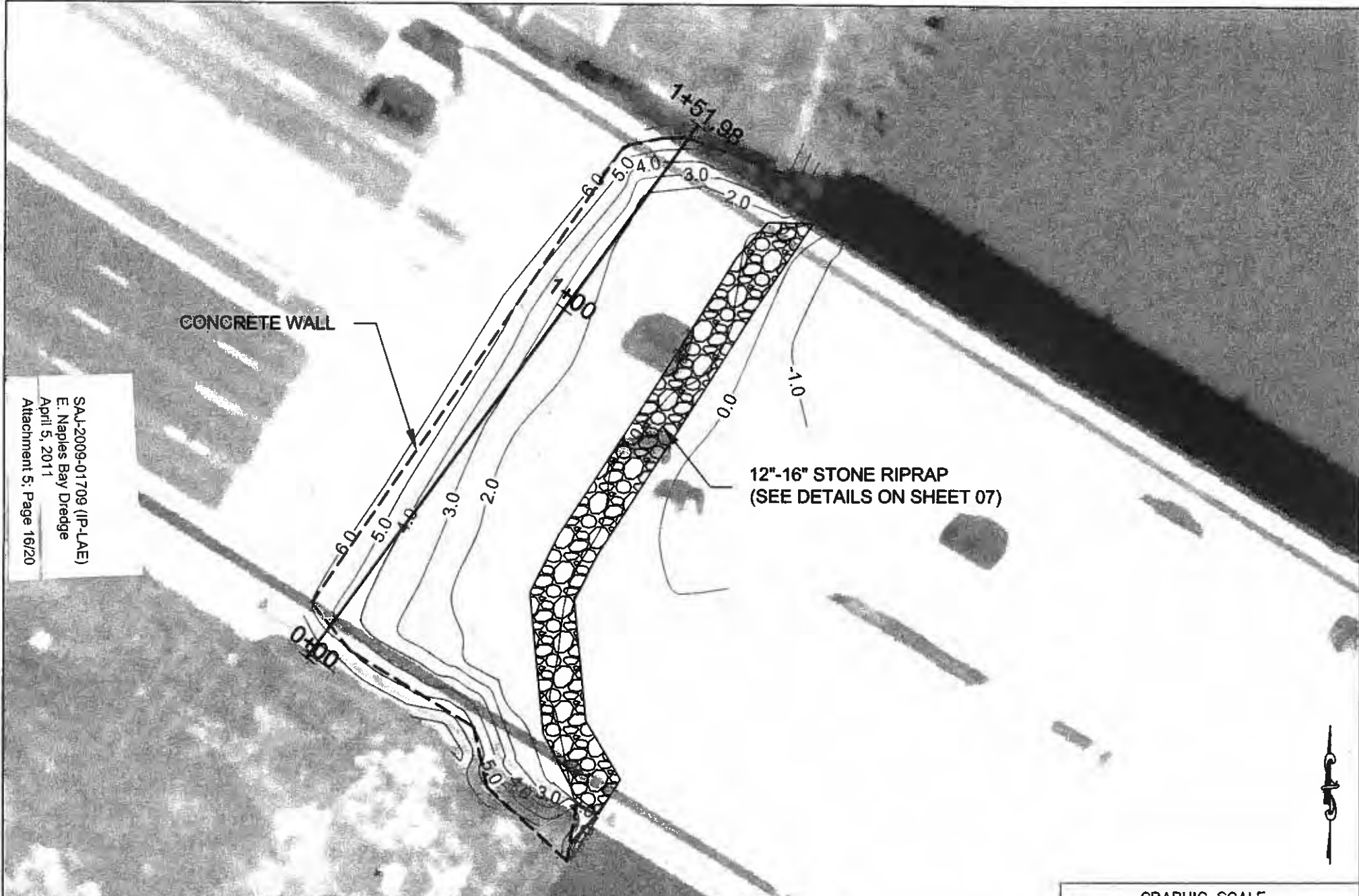
SAJ-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 5: Page 15/20

**NOTES:**  
 - ELEVATIONS IN NGVD29  
 - POINTS REFERENCE EXISTING GROUND BELOW THE US 41 BRIDGE  
 - ALL WORK TO OCCUR UNDERNEATH US 41 BRIDGE  
 - AERIAL SHOWN FOR ILLUSTRATION ONLY



CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	TASK	EASTERN GORDON RIVER AREA BATHYMETRIC POINTS
DATE					

ORIGINAL: 8/18/10 1. _____ 2. _____ 3. _____ 4. _____ 5. _____	6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____	JOB NO. 100018109 DRAWN: MGS PC: JBT CHECKED: JJP QC: BDF SHEET 05 of 14
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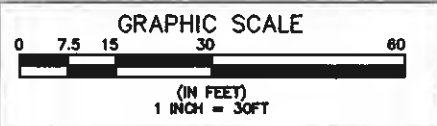


CONCRETE WALL

12"-16" STONE RIPRAP  
(SEE DETAILS ON SHEET 07)

S.A.J-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 5: Page 16/20

**NOTES:**  
- ALL WORK TO OCCUR UNDERNEATH US 41 BRIDGE  
- AERIAL SHOWN FOR ILLUSTRATION ONLY

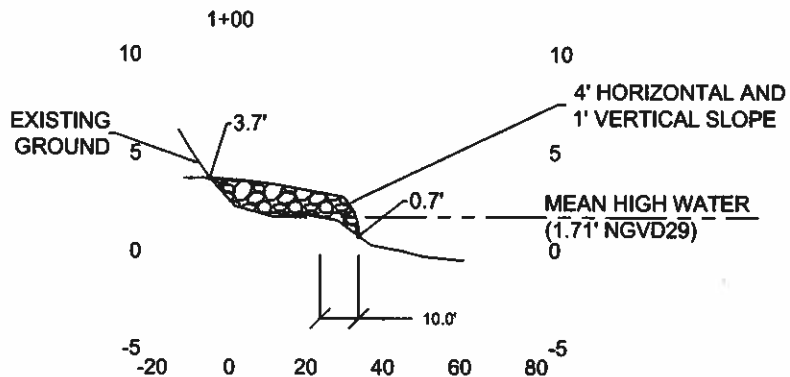


CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	TITLE	EASTERN GORDON RIVER AREA BATHYMETRIC CONTOURS AND RIPRAP
DATE					

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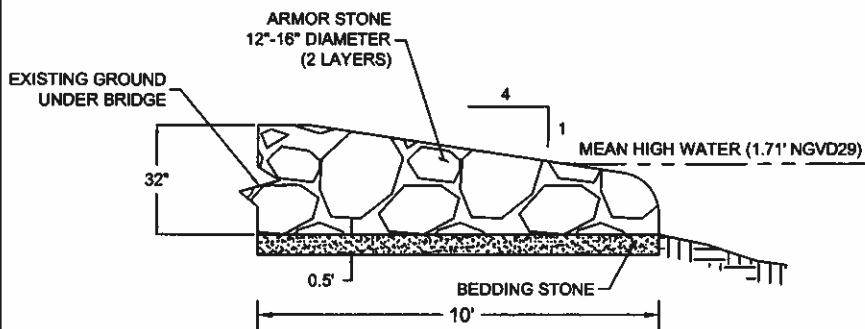
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DRAWN	MSJ
PE	JBY
CHECKED	JLP
QC	MSJ
SHEET	06 of 14

TYPICAL CROSS SECTION

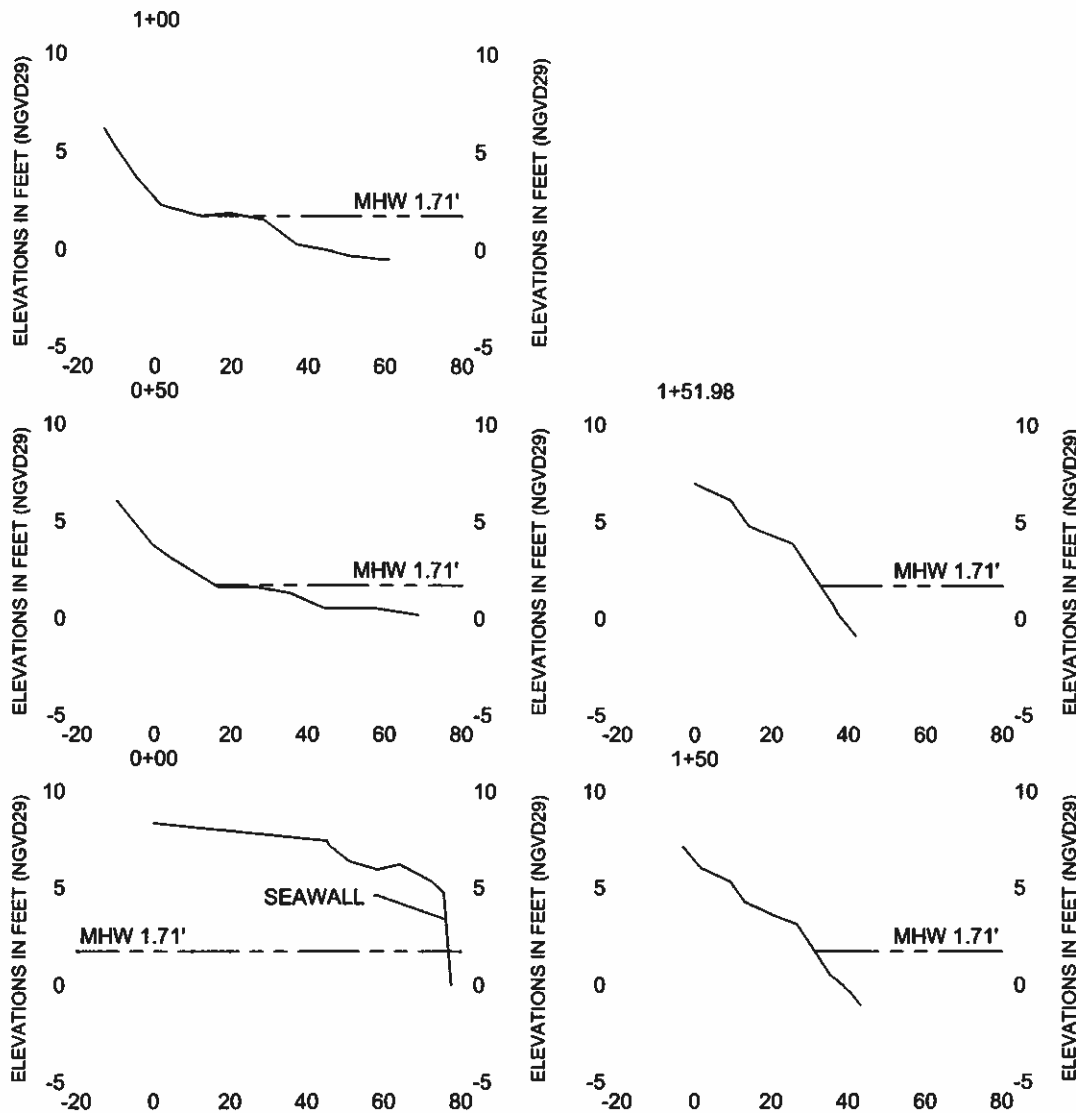


VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

RIPRAP CONSTRUCTION DETAILS



N.T.S.



VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

SAJ-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 5: Page 17/20

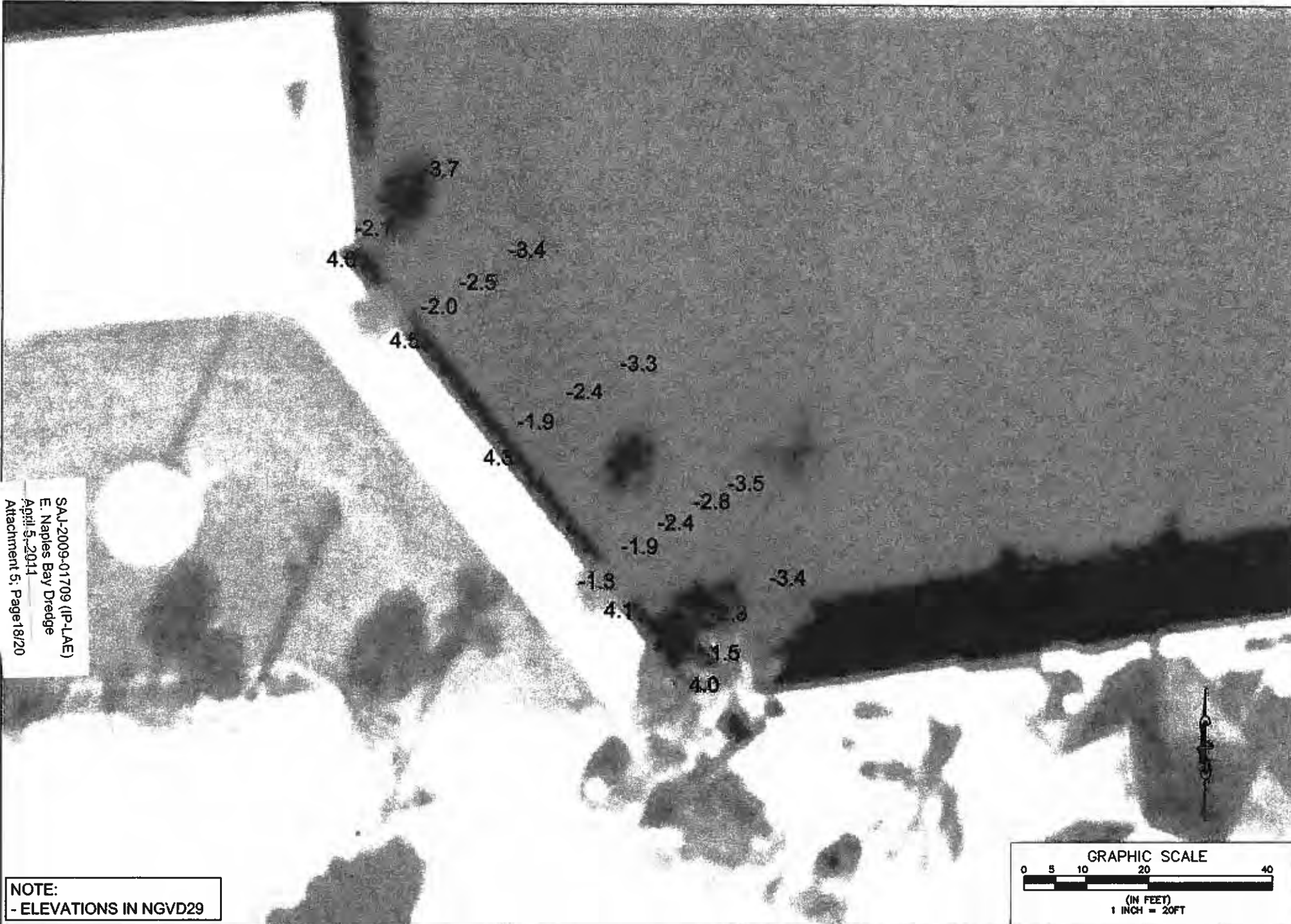


4530 West Bay Street, Ste. 5170  
Tampa, Florida 33607  
Ph. (813) 282-7275

CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	TASK	EASTERN GORDON RIVER AREA RIPRAP DETAILS AND CROSS SECTIONS
DATE		DATE		DATE	

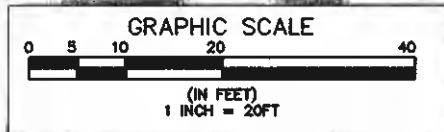
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SAL-2009-01709 (IP-LAE)  
 E. Naples Bay Dredge  
 April 5, 2011  
 Attachment 5, Page 18/20

**NOTE:**  
 - ELEVATIONS IN NGVD29



4330 West Bay Street, Blvd. 21 700  
 Tampa, Florida 33607  
 Ph. (813) 282-7275

CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	TITLE	USCG MITIGATION AREA BATHYMETRIC POINTS	ORIGINAL	9/18/10	6		JOB NO. 100018109
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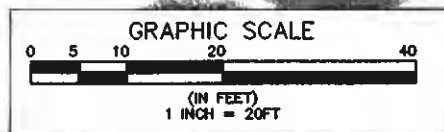
12"-16" STONE RIPRAP  
(SEE DETAILS ON SHEET 10)

0+87.95

0+50

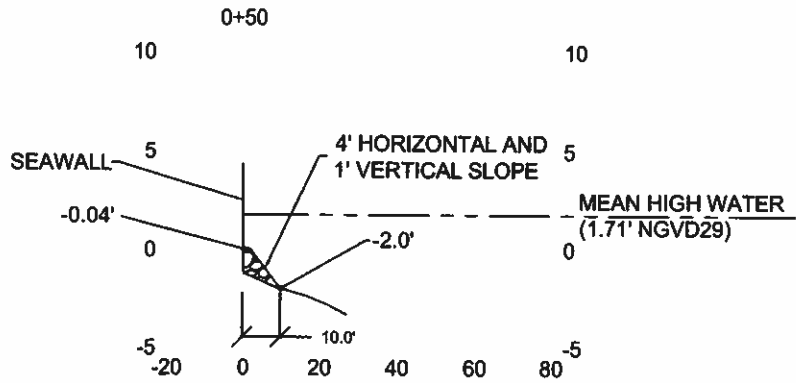
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SAJ-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 5: Page 19/20



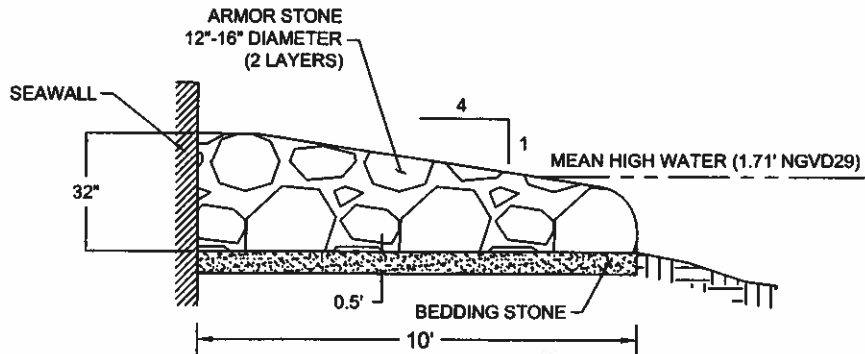
CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	TASK	USCG MITIGATION AREA BATHYMETRIC CONTOURS AND RIPRAP	ORIGIN. REVISIONS:	9/18/10	6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____	JOB NO. 100018100 DRAWN: JES PE: JET CHECKED: JAP QC: JBY	SHEET 09 of 14
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TYPICAL CROSS SECTION

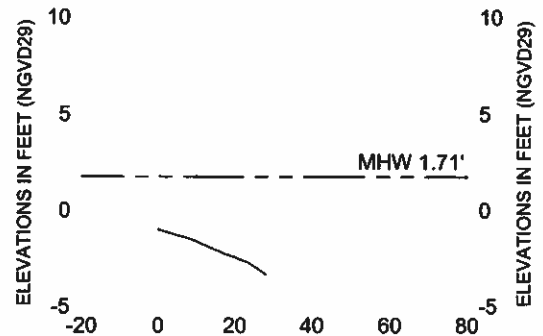
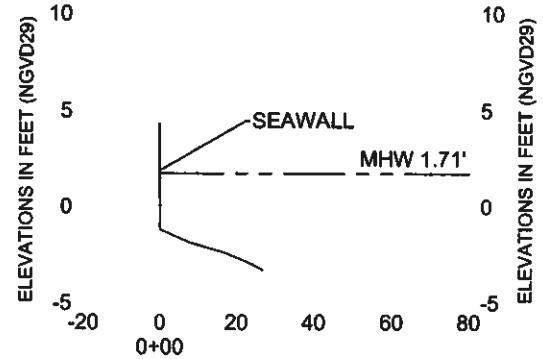
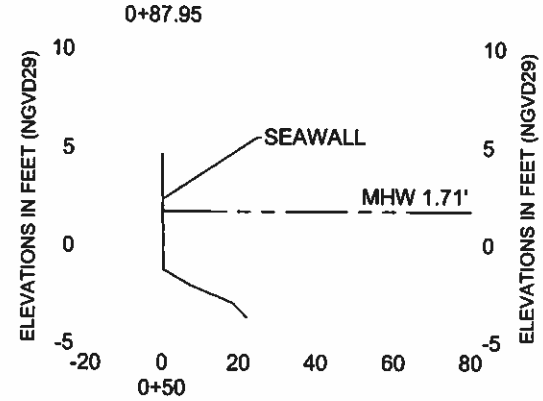


VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

RIPRAP CONSTRUCTION DETAILS



N.T.S.



VERTICAL SCALE 1"=10'  
HORIZONTAL SCALE 1"=50'

SAJ-2009-01709 (IP-LAE)  
E. Naples Bay Dredge  
April 5, 2011  
Attachment 5: Page 20/20



4030 West Bay Street Blvd. SR 700  
Tampa, Florida 33607  
Ph. (813) 282-7275

CLIENT	CITY OF NAPLES	PROJECT	EAST NAPLES BAY DREDGING PROJECT	TASK	USCG MITIGATION AREA RIPRAP DETAILS AND CROSS SECTIONS
DATE		APPROVED		DATE	8/18/10
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ORIGINAL REVISIONS:	8/18/10
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JOB NO.	100018100
OWNER	MISS
PE	JET
CHECKED	J.P.
QC	BOF
DATE	8/18/10
SHEET 10 OF 14	

## **PERMIT STATE-OWNED SUBMERGED LANDS CONDITIONS**

The activities described herein must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The General Consent 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 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 conditions and drawings prior to commencing the authorized activities. Failure to comply with these conditions, including any mitigation requirements, 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 and state-owned submerged lands authorization, as specifically described above.

### **SPECIFIC CONDITIONS - PRIOR TO CONSTRUCTION**

1. All required submittals, such as certifications, monitoring reports, notifications, etc., shall be submitted to the Florida Department of Environmental Protection, South District Office, Submerged Lands and Environmental Resource Permitting, P.O. Box 2549, Fort Myers, FL 33902-2549 ("South District Office"). **All submittals shall include the project name and indicated permit number when referring to this project.**

*Note: In the event of an emergency, the Permittee should contact the Department by calling (800) 320-0519. During normal business hours, the permittee should call (239) 344-5600.*

2. Any deviation from the specific permit conditions or permit drawings shall not be undertaken without modification of this permit and submittal of the appropriate processing fee.

3. If the approved permit drawings conflict with the specific conditions, then the specific conditions shall prevail.

4. Prior to commencement of construction the permittee shall coordinate with the affected boaters and post notices alerting the public of the any channel closure necessary during construction. The Permittee shall post signs no less than 7 days prior, in locations visible to boaters normally navigating in the project area. The Permittee shall also publish notices in the newspaper or other media that will assure notification

10. During the time of active dredging by the City of Naples, individual property owners within the canal system have the option to independently contract with the dredge contractor for dredging within the setback the City will observe from all the private docks and bulkheads. This additional dredging is authorized by this permit. These areas of possible dredging are shown on the attached sheets 28-32A, and the areas are labeled " Dredge Template (Private)". The permittee shall continue to be responsible for compliance with all conditions and requirements of the permit even if dredging is accomplished by individual homeowners in those areas specified above. The spoil from these areas shall be disposed of in the same sites as the spoil from the area dredged by the City. Any dredging conducted by individual property owners within the canal system must be conducted simultaneously with the authorized dredging project as performed by the City. Any dredging after the City has completed its dredging project will require separate authorization and will not be authorized by this permit.

11. Mechanical dredging and hydraulic dredging are authorized dredging methodologies for the proposed dredging. Blasting is not an authorized dredging methodology. Any rock to be removed shall be removed utilizing hydraulic hammer and/or a diamond tooth cutterhead and toothed bucket excavator mounted on a barge.

12. All spoil material shall be piped onto the upland disposal site to be dried and trucked to the landfill. The pipeline shall be anchored to the channel bottom within the navigation channel. Any pipeline that is not anchored to the channel bottom shall be clearly marked. The entire pipeline shall be adequately marked in accordance with United States Coast Guard requirements.

13. All spoil material from the permitted dredging shall be removed from the spoil containment area shown on the permit drawings at a rate so that the spoil containment area is never filled to capacity. No return water is permitted into waters of the State in a manner that exceeds state water quality standards. The discharge from the spoil site shall be monitored for turbidity as described in the monitoring section of this permit.

14. The mooring of construction barges and/or other vessels utilized during construction shall be clearly marked to address navigation, including nighttime lighting, if applicable.

#### **SPECIFIC CONDITIONS - MITIGATION**

15. **Prior to commencement of construction**, the permittee shall off-set the impacts to 0.06 acres of oysters through enhancement of shoreline based on the attached "Proposed Alternate Mitigation Summary," dated September 3, 2010.

16. Turbidity barriers shall be utilized and properly maintained during the permitted construction, and shall remain in place until any turbidity generated subsides.

17. A filter cloth underliner for the riprap shall be staked in place before installation of the riprap material.

18. The riprap shall consist only of natural boulders or clean concrete rubble, free of sediments, tar, metal rebar, and other deleterious materials, 12" to 16" in diameter to be placed at a 4:1 slope.

#### **SPECIFIC CONDITIONS - MANATEE**

19. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with, and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

20. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels shall follow routes of deep water whenever possible.

21. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers shall not impede manatee movement.

22. All on-site project personnel are responsible for observing water-related activities for the presence of manatees. All in-water operations, including vessels, shall be shutdown if a manatee comes within 50 feet of the operation. Activities shall not resume until every manatee has moved beyond the 50-foot radius of the project operation, or until 30 minutes has elapsed wherein a manatee has not reappeared within 50 feet of the operation. Animals shall not be herded away or harassed into leaving.

23. Any collision with or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-772-562-3909) for south Florida.

24. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Awareness signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used. One sign measuring at least 3 ft. by 4 ft. which reads *Caution: Manatee Area* must be posted. A second sign measuring at least 8 1/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shutdown of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. Please see the Florida Fish and Wildlife Conservation Commission website for information on how to obtain appropriate signs:

[http://www.myfwc.com/docs/WildlifeHabitats/Manatee\\_EducationalSign.pdf](http://www.myfwc.com/docs/WildlifeHabitats/Manatee_EducationalSign.pdf)

### **SPECIFIC CONDITIONS - MONITORING/REPORTING REQUIREMENTS**

25. **Once every four hours during all dredging operations, the permittee shall monitor turbidity levels within 5 feet of the turbidity curtain surrounding the active dredge area. The monitoring shall continue during dredging operations until project completion.** Compliance samples shall be taken at one sample site within the densest portion of any visible turbidity plume within 5 feet outside of the turbidity curtains. Ambient samples shall be taken up-current at mid-depth and at no time shall the ambient sample be taken within an apparent turbidity plume. Sampling shall commence prior to, but no more than 24 hours before initiation of any dredging activities. Monitoring for turbidity shall be conducted for the duration of the project.

26. Compliance samples shall be collected from surface, mid-depth and one foot above bottom. Mid-depth samples are sufficient in water that is less than five feet deep. Samples shall be collected with a Kemmerer, Van Dorn or a similar sampler that is designed to collect in situ water samples. Samples shall be analyzed immediately after collection with a turbidimeter that produces results in Nephelometric measurements. The field sample results shall be accurately recorded to the precision capabilities (decimal place) of the instrument. Field turbidimeter results shall be rounded to the next whole number (ex. 15.23 NTUs shall be recorded; however the results shall be interpreted as 16.00 NTUs). If monitoring reveals turbidity levels greater than background levels, the permittee shall cease all work pursuant to Specific Condition 30.

27. Measurements must be acquired in adherence to the Department's Standard Operating Procedure (SOP) for field turbidity, available at the website: [www.dep.state.fl.us/labs/qa/sops.htm](http://www.dep.state.fl.us/labs/qa/sops.htm). More specifically, the instruments used to measure turbidity shall be fully calibrated within one month prior to commencement of the project, and at least once a month thereafter during the project. Calibration shall be verified each morning prior to use, and after each time the instrument is turned on, using a turbidity "standard" that is different from the one used during calibration.

Calibration procedures shall be recorded in a permanent logbook, and copies must be submitted with the data.

28. Turbidity monitoring reports shall be submitted to the Department each Monday following project commencement **until dredging completion**. When submitting this information to the Department, please include, at the top of each page or as a cover page to the submittal: "This information is being provided in partial fulfillment of the monitoring requirements in Permit No. 11-0295486-001-EI04." **Monitoring reports shall contain the following information:**

- a. Permit number;
- b. Dates of sampling and analysis;
- c. A statement describing the methods used in collection, handling, storage, and analysis of the samples;
- d. A map indicating the sampling locations; and
- e. Turbidity data for both a compliance sample and an ambient (background) sample for each monitoring event, referenced in Nephelometric Turbidity Units (NTUs).

Failure to submit reports in a timely manner constitutes a violation of the permit and may be grounds for revocation.

29. Monitoring reports shall also include the following information for each sample taken:

- a. Time of day sample was taken;
- b. Depth of water body;
- c. Depth of sample;
- d. Tidal stage and direction of flow; and
- e. Antecedent weather conditions, including wind direction and velocity.

30. If monitoring reveals turbidity levels at the compliance sample location(s) appear to violate the State Water quality standards (i.e., compliance sample(s) exceed background levels), the following measures shall be taken by the permittee:

- a. Immediately cease all work contributing to the water quality violation. Work which may contribute to the violation shall not resume until corrective measures have been taken and turbidity levels have returned to acceptable levels compliant with 62-302, F.A.C.;
- b. Modify the work procedures that were responsible for the violation, install more turbidity containment devices, and repair any non-functioning turbidity containment devices;
- c. Increase monitoring frequency to every 2 hours until turbidity levels are within acceptable limits. Interim samples collected following the violation(s) shall be collected in the same manner and locations as the routine monitoring.



Operations may not resume until the water quality standard for turbidity has returned to ambient levels; and

- d. The violation(s) shall be immediately reported to the Department. The report shall include the description of the corrective actions being taken or proposed to be taken. If violation(s) are noted after normal business hours, on holidays, or on weekends, the report shall be made to the Department as soon as normal business hours resume. A copy of the monitoring data sheets, which indicate violation(s), shall be forwarded immediately to the Department.

Failure to report violation(s) or to follow correct procedures before resuming work shall constitute grounds for permit revocation and may subject the permittee to formal enforcement action.

### **SPECIFIC CONDITIONS - POST CONSTRUCTION**

31. **Within 30 days of completion of the permitted dredging activities, the permittee shall submit to the Department a detailed report describing the completed construction and including as-built drawings showing all structures and bathymetry of the project area. The submitted drawings shall be plan and cross-sectional view drawings, fully scaled and dimensioned, signed and sealed by a registered professional engineer, showing the entire project area. These drawings shall clearly indicate the deviations from the permit drawings attached to this permit. If the as-built drawings show a significant over-dredge that, as determined by the Department, could potentially result in adverse effects to water quality, the permittee shall submit a backfilling plan acceptable to the Department to level the bottom surface by backfilling with clean fill material free of deleterious substances to the authorized design depth. The Department may require follow-up as-built drawings or bathymetry be submitted after any required backfilling activities. Any identified over-dredging shall not be considered corrected until a written compliance statement has been obtained from the Department.**

### **GENERAL CONDITIONS:**

1. All activities authorized by this permit 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 and a violation of Part IV of Chapter 373, (F.S.).
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 the Department staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

**ATTACHMENT**

**PRELIMINARY JURISDICTIONAL DETERMINATION FORM**

**BACKGROUND INFORMATION**

**A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): July 27, 2010**

**B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:**  
City of Naples, 735 8<sup>th</sup> Street South, Naples, FL 34102

**C. DISTRICT OFFICE, FILE NAME, AND NUMBER:SAJ-2009-0709**

**D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:** man-made tidal canals near Sandpiper Street, Naples, Collier County, Florida  
**(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)**

State:FL County/parish/borough: Collier City: Naples  
Center coordinates of site (lat/long in degree decimal format): Lat. 26.129290° N, Long. -81.78658° W.

Universal Transverse Mercator:

Name of nearest waterbody: man-made tidal canals to Oyster Bay, Golden Shores, Royal Harbor residential subdivisions

Identify (estimate) amount of waters in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres.

Cowardin Class: Marine/estuarine

Stream Flow: Perennial

Wetlands: 0.0 acres.

Cowardin Class:

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: man-made canals

Non-Tidal:

**E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):**

Office (Desk) Determination. Date: 7/27/10

Field Determination. Date(s):

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to

request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

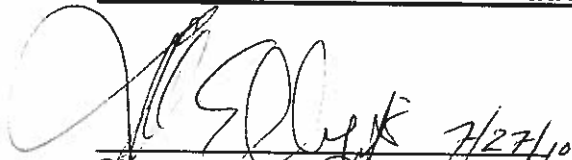
2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:


**SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply**

- checked items should be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
  - Office concurs with data sheets/delineation report.
  - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps:
- Corps navigable waters' study:
- U.S. Geological Survey Hydrologic Atlas:
  - USGS NHD data.
  - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name:
- USDA Natural Resources Conservation Service Soil Survey. Citation:
  
- National wetlands inventory map(s). Cite name:
- State/Local wetland inventory map(s):
- FEMA/FIRM maps:
- 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- Photographs:  Aerial (Name & Date): Collier County Property Appraiser. or  Other (Name & Date): Google Earth Pro.
- Previous determination(s). File no. and date of response letter:
- Other information (please specify):

**IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.**

  
 \_\_\_\_\_  
 Signature and date of  
 Regulatory Project Manager  
 (REQUIRED)

  
 \_\_\_\_\_  
 Signature and date of  
 person requesting preliminary JD  
 (REQUIRED, unless obtaining  
 the signature is impracticable)