

FLORIDA DEPARTMENT OF **Environmental Protection**

Ron DeSantis Governor

Jeanette Nuñez Lt. Governor

Noah Valenstein Secretary

Southwest District Office 13051 North Telecom Parkway #101 Temple Terrace, Florida 33637-0926

March 12, 2020

Southwest Florida Water Management District % Jennette Seachrist 2379 Broad Street Brooksville, Florida 34604 Jennette.Seachrist@SWFWMD.State.FL.US

File No.: 29-0322543-002-EG, Hillsborough County

Dear Ms. Seachrist:

On March 9, 2020, we received your notice of intent to use a General Permit (GP), pursuant to Rule 62-330.485, Florida Administrative Code (F.A.C.) to perform upland and wetland habitat restoration and enhancement activities, by implementing a stormwater treatment system, removing nuisance/exotic vegetation, and planting desirable plant species. The project is located on two separate parcels of land lying west of 12th Avenue, Palm River, Sections 21 and 28, Township 29 South, Range 19 East, in Hillsborough County, as shown on the enclosed area map.

Your intent to use a general permit has been reviewed by Department staff for three types of authorizations: (1) regulatory authorization, (2) proprietary authorization (related to state-owned submerged lands), and (3) federal authorization. The authority for review and the outcomes of the reviews are listed below. Please read each section carefully.

Your project did not qualify for the federal review portion of this verification request. Specifically, the activity is not covered by the State Programmatic General Permit. **Additional authorization must be obtained prior to commencement of the proposed activity**. This letter does not relieve you from the responsibility of obtaining other federal, state, or local authorizations that may be required for the activity. Please refer to the specific section(s) dealing with that portion of the review below for advice on how to proceed.

If you change the project from what you submitted, the authorization(s) granted may no longer be valid at the time of commencement of the project. Please contact us prior to beginning your project if you wish to make any changes.

1. Regulatory Review – Verified

Based on the forms, drawings, and documents submitted with your notice, it appears that the project meets the requirements for the General Permit under Rule 62-330.485, F.A.C. Any activities performed under a general permit are subject to general conditions required in Rule 62-330.405, F.A.C. (attached), and the specific conditions of Rule 62-330.485, F.A.C. (attached). Any deviations from these conditions may subject the permittee to enforcement action and possible penalties.

Please be advised that the construction phase of the GP must be completed within five years from the date the notice to use the GP was received by the Department. If you wish to continue this GP beyond the expiration date, you must notify the Department at least 30 days before its expiration.

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Authority for review- Part IV of Chapter 373, F.S., Title 62, F.A.C. and in accordance with the operating agreements executed between the Department and the water management districts, as referenced in Chapter 62-113, F.A.C.

2. Proprietary Review – Not Required

The activity does not appear to be located on sovereign submerged lands, and does not require further authorization under chapter 253 of the Florida Statutes, or chapters 18-20 or 18-21 of the Florida Administrative Code.

Please be advised that any use of sovereign submerged lands without specific prior authorization from the Board of Trustees will be considered a violation of Chapter 253, Florida Statutes and may subject the affected upland riparian property owners to legal action as well as potential fines for the prior unauthorized use of sovereign land.

Authority for review - Chapter 253, F.S., Chapter 18-21, F.A.C., and Section 62-330.075, F.A.C. as required.

3. Federal Review – SPGP Not Approved

Your proposed activity as outlined on your application and attached drawings **does not qualify** for Federal authorization pursuant to the State Programmatic General Permit and a **SEPARATE permit** or authorization **shall be required** from the Corps. You must apply separately to the Corps using their APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT, ENG FORM 4345, or alternative as allowed by their regulations. More information on Corps permitting may be found online in the Jacksonville District Regulatory Division Source Book at: https://www.saj.usace.army.mil/Missions/Regulatory/Source-Book.

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

Additional Information

Please retain this letter. The activities may be inspected by authorized state personnel in the future to ensure compliance with appropriate statutes and administrative codes. If the activities are not in compliance, you may be subject to penalties under Chapter 373, F.S., and Chapter 18-14, F.A.C.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Petition for Administrative Hearing

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. Pursuant to Rules 28-

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106.201 and 28-106.301, F.A.C., a petition for an administrative hearing must contain the following information:

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

The petition 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, or via electronic correspondence at Agency_Clerk@dep.state.fl.us. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant and persons entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. You cannot justifiably rely on the finality of this decision unless notice of this decision and the right of substantially affected persons to challenge this decision has been duly published or otherwise provided to all persons substantially affected by the decision. While you are not required to publish notice of this action, you may elect to do so pursuant Rule 62-110.106(10)(a).

The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C. If you do not publish notice of this action, this waiver will not apply to persons who have not received written notice of this action.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The

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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, or via electronic correspondence at Agency_Clerk@dep.state.fl.us, before the deadline for filing a petition for an administrative hearing. 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.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275, F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Florida Rules of Appellate Procedure 9.110 and 9.190 with the Clerk of the Department in the Office of General Counsel (Station #35, 3900 Commonwealth Boulevard, 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 must be filed within 30 days from the date this action is filed with the Clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Sincerely,

Anthony Pidala

Environmental Consultant

Permitting and Waste Cleanup Program

Southwest District

Enclosures:

Ch. 62-330.485, F.A.C.

General Conditions for All General Permits, Ch. 62-330.405, F.A.C.

Attachments:

Project Drawings

cc:

ERP Permitting, Southwest District, sw_erp@dep.state.fl.us
U.S. Army Corps of Engineers, tampareg@usace.army.mil

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Jackie Julien, Port Tampa Bay, <u>jjulien@tampaport.com</u> Michael Palmer, Ardurra, <u>MPalmer@Ardurra.com</u>

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this determination, including all copies, was mailed before the close of business on <u>March 12, 2020</u>, to the above listed persons.

FILING AND ACKNOWLEDGMENT

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

Shorathuray Buie

March 12, 2020

Clerk Date

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62-330.485 General Permit to the Department and Water Management Districts for Environmental Restoration or Enhancement.

- (1) A general permit is granted to the Department and Districts for the construction, alteration, operation, maintenance, removal and abandonment of projects to implement Department or District environmental restoration or enhancement projects.
- (2) The environmental restoration or enhancement project must comply with any one of the following procedures:
- (a) The project is part of a Surface Water Improvement and Management Plan developed pursuant to section 373.453, F.S.; or
- (b) The project is approved by the District Governing Board or the Secretary of the Department after conducting at least one public meeting; or
- (c) The project is wholly or partially funded through the Land Acquisition Trust Fund pursuant to Article X, Section 28 of the Florida Constitution, or through any successor trust fund.
- (3) When the activity is to be conducted by the Department, the Department shall provide the notice and any processing fee required by rule 62-330.071, F.A.C., to the appropriate District.
- (4) When the activity is to be conducted by a District, the District shall provide the notice and any required fee to the appropriate Department office.

Rulemaking Authority 373.026(7), 373.043, 373.118(1), 373.406(5), 373.4131, 373.414(9), 373.4145, 373.418, 403.805(1) FS. Law Implemented 373.118(1), 373.406(5), 373.413, 373.4131, 373.414(9), 373.4145, 373.416, 373.418, 373.426, 403.814(1) FS. History—New 10-3-95, Amended 10-1-07, Formerly 62-341.485, Amended 10-1-13, 6-1-18.

62-330.405 General Conditions for All General Permits.

The following general permit conditions are binding upon the permittee and are enforceable under chapter 373, F.S. These conditions do not apply to the general permit for stormwater management systems under section 403.814(12), F.S.

- (1) The general permit is valid only for the specific activity indicated. Any deviation from the specified activity and the conditions for undertaking that activity shall constitute a violation of the permit and may subject the permittee to enforcement action and revocation of the permit under chapter 373, F.S.
- (2) The general permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any construction, alteration, operation, maintenance, removal or abandonment authorized by this permit; and it does not authorize any violation of any other applicable federal, state, local, or special district laws (including, but not limited to, those governing the "take" of listed species).
- (3) The general 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 general permit.
- (4) The general permit does not relieve the permittee from liability and penalties when the permitted activity causes harm or injury to: human health or welfare; animal, plant or aquatic life; or property. It does not allow the permittee to cause pollution that violates state water quality standards.
- (5) Section 253.77, F.S., provides that a person may not commence any excavation, construction, or other activity involving the use of state-owned 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 consent, lease, easement, or other form of authorization authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on state-owned lands.
- (6) The authorization to conduct activities under a general permit may be modified, suspended or revoked in accordance with chapter 120, F.S., and section 373.429, F.S.

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(7) The general permit is not transferable to a new third party. To be used by a different permittee, a new notice to use a general permit must be submitted in accordance with rule 62-330.402, F.A.C. Activities constructed in accordance with the terms and conditions of a general permit are automatically authorized to be operated and maintained by the permittee and subsequent owners in accordance with subsection 62-330.340(1), F.A.C. Any person holding the general permit, persons working under the general permit, and owners of land while work is conducted under the general permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to sale, conveyance, or other transfer of ownership or control of the permitted project, activity, or the real property at which the permitted project or activity is located.

- (8) Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the permitted system to ensure conformity with the plans and specifications approved by the general permit.
- (9) The permittee shall maintain any permitted project or activity in accordance with the plans submitted to the Agency and authorized in the general permit.
- (10) A permittee's right to conduct a specific activity under the general permit is authorized for a duration of five years.
- (11) Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be implemented and maintained immediately prior to, during, and after construction as needed to stabilize all disturbed areas, including other measures specified in the permit to prevent adverse impacts to the water resources and adjacent lands. Erosion and sediment control measures shall be installed and maintained in accordance with the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007)*, available at https://www.flrules.org/Gateway/reference.asp?No=Ref-04227, and the *Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008)*, available at https://publicfiles.dep.state.fl.us/DEAR/Stormwater_Training_Docs/erosion-inspectors-manual.pdf.
- (12) Unless otherwise specified in the general permit, temporary vehicular access within wetlands during construction shall be performed using vehicles generating minimum ground pressure to minimize rutting and other environmental impacts. Within forested wetlands, the permittee shall choose alignments that minimize the destruction of mature wetland trees to the greatest extent practicable. When needed to prevent rutting or soil compaction, access vehicles shall be operated on wooden, composite, metal, or other non-earthen construction mats. In all cases, access in wetlands shall comply with the following:
- (a) Access within forested wetlands shall not include the cutting or clearing of any native wetland tree having a diameter four inches or greater at breast height;
 - (b) The maximum width of the construction access area shall be limited to 15 feet;
- (c) All mats shall be removed as soon as practicable after equipment has completed passage through, or work has been completed, at any location along the alignment of the project, but in no case longer than seven days after equipment has completed work or passage through that location; and
- (d) Areas disturbed for access shall be restored to natural grades immediately after the maintenance or repair is completed.
- (13) Barges or other work vessels used to conduct in-water activities shall be operated in a manner that prevents unauthorized dredging, water quality violations, and damage to submerged aquatic communities.
- (14) The construction, alteration, or use of the authorized project shall not adversely impede navigation or create a navigational hazard in the water body.
 - (15) Except where specifically authorized in the general permit, activities must not:
- (a) Impound or obstruct existing water flow, cause adverse impacts to existing surface water storage and conveyance capabilities, or otherwise cause adverse water quantity or flooding impacts to receiving water and adjacent lands; or

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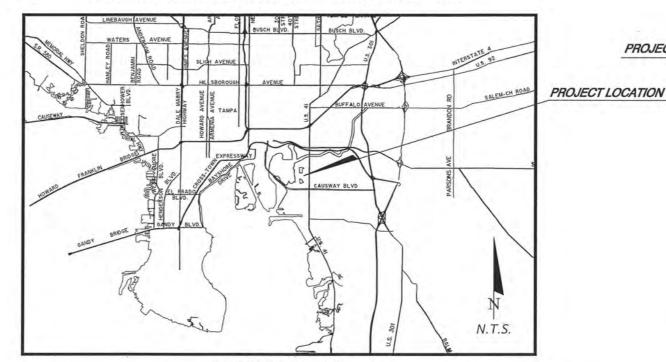
(b) Cause an adverse impact to the maintenance of surface or ground water levels or surface water flows established pursuant to section 373.042, F.S., or a Works of the District established pursuant to section 373.086, F.S.

- (16) If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05, F.S.
- (17) The activity must be capable, based on generally accepted engineering and scientific principles, of being performed and of functioning as proposed, and must comply with any applicable District special basin and geographic area criteria.
- (18) The permittee shall comply with the following when performing work within waters accessible to federally- or state-listed aquatic species, such as manatees, marine turtles, smalltooth sawfish, and Gulf sturgeon:
- (a) All vessels associated with the project shall operate at "Idle Speed/No Wake" at all times while in the work area and where the draft of the vessels provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- (b) All deployed siltation or turbidity barriers shall be properly secured, monitored, and maintained to prevent entanglement or entrapment of listed species.
- (c) All in-water activities, including vessel operation, must be shut down if a listed species comes within 50 feet of the work area. Activities shall not resume until the animal(s) has moved beyond a 50-foot radius of the in-water work, or until 30 minutes elapses since the last sighting within 50 feet. Animals must not be herded away or harassed into leaving. All onsite project personnel are responsible for observing water-related activities for the presence of listed species.
- (d) Any listed species that is killed or injured by work associated with activities performed shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1(888)404-3922 and ImperiledSpecies@myFWC.com.
- (e) Whenever there is a spill or frac-out of drilling fluid into waters accessible to the above species during a directional drilling operation, the FWC shall be notified at ImperiledSpecies@myfwc.com with details of the event within 24 hours following detection of the spill or frac-out.
- (19) The permittee shall hold and save the Agency 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 activity authorized by the general permit.
- (20) The permittee shall immediately notify the Agency in writing of any submitted information that is discovered to be inaccurate.

Rulemaking Authority 373.026(7), 373.043, 373.118(1), 373.406(5), 373.4131, 373.414(9), 373.4145, 373.418, 403.805(1) FS. Law Implemented 373.044, 373.118(1), 373.129, 373.136, 373.406(5), 373.413, 373.4131, 373.414(9), 373.4145, 373.416, 373.422, 373.423, 373.429, 403.814(1) FS. History—New 10-3-95, Amended 10-1-07, Formerly 62-341.215, Amended 10-1-13, 6-1-18.

PALM RIVER RESTORATION (W367) EAST McKAYBAYSTORMWATER AND HABITAT RESTORATION SITES

HILLSBOROUGH COUNTY, FLORIDA SECTIONS 21 & 28, TOWNSHIP 29S, RANGE 19E



PREPARED FOR:



SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWIM) 7601 U.S. HIGHWAY 301 NORTH TAMPA, FLORIDA 33637 PHONE: (813) 985-7481



FLORIDA DEPARTMENT OF TRANSPORTATION - DIST. 7 11201 N. McKINLEY DRIVE TAMPA, FLORIDA 33612 PHONE: (813) 975-6000



4921 Memorial Highway One Memorial Center, Suite 300

Tampa, Florida 33634

Phone 813 880-8881 Fax 813 880-8882

JACKSONVILLE

LAUDERDALE

DRAINAGE PLANS ENGINEER OF RECORD:

PROJECT VICINITY

KYLE D. SMITH, P.E. #71509

REVISIONS			
DATE	BY	DESCRIPTION	

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

PLANS PREPARED BY:

INDEX OF CONSTRUCTION PLANS

COMPONENTS OF CONTRACT PLANS SET

SHEET NO. SHEET DESCRIPTION

- COVER SHEET
- NOTES AND LEGEND
- CONSTRUCTION POLLUTION PREVENTION SHEET
- KEY SHEET
- 5 EXISTING DRAINAGE BASIN MAP
- PROPOSED DRAINAGE BASIN MAP 6
- LIMITS OF CLEARING
- PAVING, GRADING AND DRAINAGE PLAN (8)
- PLANTING PLAN (7) 17-23
- CONTROL NETWORK 24
- PLANTING PLAN DETAILS 25
- 27-28 POND CROSS SECTIONS (2)
- GRADING CROSS SECTIONS 29
- DRAINAGE STRUCTURE CROSS SECTIONS 30
- DRAINAGE STRUCTURE PLAN VIEW DETAIL SHEETS (3)
- 34-34.1 DRAINAGE STRUCTURE S200 STRUCTURAL DETAILS
- DRAINAGE STRUCTURE S100 DETAIL SHEET 35
- SPOIL MATERIAL HAUL ROUTE PLAN

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS DATE 2013, AND STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION DATED 2013 AS AMENDED BY CONTRACT DOCUMENTS.

ALL ELEVATIONS SHOWN ARE BASED ON THE NATIONAL AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT PROJECT MANAGER: STEPHANIE POWERS

SHEET NO.

- THE LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AS SHOWN AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF THE UTILITIES PRIOR TO CONSTRUCTION IN THEIR VICINITY. THE CONTRACTOR SHALL NOTIFY SUNSHINE, TECO, AND ANY OTHER UTILITY COMPANIES NOT REPRESENTED BY ONE-CALL OF FLORIDA 48 HOURS PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING UTILITIES. CALL SUNSHINE AT 1-800-432-4770.
- 2. SPECIAL CARE SHALL BE TAKEN TO ENSURE THAT EXISTING TREES IDENTIFIED TO BE SAVED REMAIN UNDAMAGED DURING CONSTRUCTION.
- ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2013) OR ALTERNATE TECHNICAL SPECIFICATIONS PROVIDED BY ENGINEER.
- 4. THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER ANY WETLAND AREAS, EXCEPT AS AUTHORIZED BY THE ENVIRONMENTAL PERMITS. ALL WORK IN THE VICINITY OF OPEN WATER OR WETLANDS SHALL BE PERFORMED IN COMPLIANCE WITH ALL PERMITS. ANY FINES OR OTHER COSTS RESULTING FROM THE CONTRACTOR'S VIOLATION OF PERMIT CONDITIONS WILL BE THE CONTRACTOR'S RESPONSIBILITY.
- PIPE MEASUREMENTS ARE TO CENTER OF STRUCTURES FOR INLETS AND MANHOLES AND TO THE DOWNSTREAM END OF MITERED END SECTIONS.
- 6. ANY U.S.C. & G.S. MONUMENT WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, PROJECT ENGINEER SHOULD NOTIFY; DIRECTOR, NATIONAL GEODETIC SURVEY 1315 EAST-WEST HIGHWAY

SILVER SPRING, MARYLAND 20910-3282 PHONE: (301) 713-3242

- A PORTION OF THE SITE LIES WITHIN FLOOD ZONE "AE" WITH A BASE FLOOD ELEVATION OF 10.0' NAVD AS INDICATED ON FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 12057C0214H DATED AUGUST 28, 2008.
- THE MEAN HIGH WATER LEVEL OF MCKAY BAY IN THE VICINITY OF THE PROJECT IS APPROXIMATELY 0.70' NAVD, THE MEAN LOW WATER LEVEL OF MCKAY BAY IN THE VICINITY OF THE PROJECT IS APPROXIMATELY -1.31' NAVO BOTH BASED ON TIDE STATION NUMBER 872-6711 FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) LAND BOUNDARY
- RELOCATION AND/OR REPLACEMENT OF EXISTING UTILITIES AFFECTED BY THE PROPOSED CONSTRUCTION THAT ARE NOT SHOWN ON THE CONSTRUCTION PLANS ARE TO BE COORDINATED BY SITE CONTRACTOR. ALL EXISTING WATER AND SANITARY SEWER LINES ARE ASSUMED TO HAVE BEEN PREVIOUSLY CONSTRUCTED USING REQUIRED RESTRAINTS.

-PAVING, GRADING & DRAINAGE NOTES -

- ALL UNDERGROUND UTILITIES MUST BE INSTALLED BEFORE SUB-BASE, BASE AND SURFACE ARE CONSTRUCTED.
- SIDEWALKS REMOVED FROM CONSTRUCTION ACTIVITIES TO BE REPLACED BY THE CONTRACTOR AS PART OF CONSTRUCTION ACTIVITIES AND SHALL INCLUDE CURB RAMPS AT CROSSWALKS IN ACCORDANCE WITH FDOT INDEX 304.
- ALL DISTURBED AREAS SHALL BE SODDED, UNLESS OTHERWISE SHOWN ON THE PLANS.
- STORM SEWER PIPE LINES WILL NOT BE INSTALLED PRIOR TO PLACEMENT AND ALIGNMENT OF INLET STRUCTURES, EXCEPT WHERE MICROTUNNELLING INSTALLATION METHOD IS USED.
- THE DRAINAGE SYSTEM SHALL BE CONTINUOUSLY MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.
- WHERE VEGETATION, DEBRIS OR SEDIMENT HAS ACCUMULATED IN SUCH A MANNER AS TO INTERFERE WITH THE FREE FLOW OF WATER OR ADEQUATE FUNCTIONING OF DRAINAGE FACILITIES DURING CONSTRUCTION, THE CONTRACTOR SHALL CLEAR AND REMOVE THE DEBRIS OR OBSTRUCTION.
- CONTRACTOR TO EXERCISE CAUTION WHILE WORKING IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH UTILITY COMPANIES TO PROVIDE EXISTING UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION
- 8. ALL ABOVE NOTES APPLY TO ALL PAVING, GRADING AND DRAINAGE PLAN SHEETS.

DEWATERING NOTES

1.

- 1. DEWATERING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH CITY OF TAMPA, SWFWMD, AND STATE OF FLORIDA MINIMUM STANDARDS AND BEST MANAGEMENT PRACTICES.
- 2. THE CONTRACTOR RETAINS ALL RESPONSIBILITY AND OBLIGATION FOR SITE AND OPERATIONAL SAFETY. THE CONTRACTOR SHALL ADJUST THE MEANS AND METHODS OF THIS PLAN AS APPROPRIATE FOR MAINTAINING SITE AND OPERATIONAL SAFETY.
- 3. THE CONTRACTOR SHALL PROVIDE PUMPING EQUIPMENT AND DEVICES TO PROPERLY REMOVE AND DISPOSE OF WATER DURING CONSTRUCTION.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING AND OBTAINING ANY AND ALL REQUIRED PERMITS PRIOR TO COMMENCEMENT OF ANY DEWATERING OPERATIONS,

-SURVEY INFORMATION NOTES (REPORT OF SURVEY) -

- 1. LAST DATE OF FIELD SURVEY: SEPTEMBER 10, 2010
- 2. VERTICAL ELEVATIONS ARE IN FEET AND ARE REFERENCED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. ORIGINATING BENCHMARKS ARE NATIONAL GEODETIC SURVEY MONUMENT "W 256" HAVING AN ELEVATION OF 8.41" AND HILLSBOROUGH COUNTY MONUMENT "HV-02 0329" HAVING AN ELEVATION OF 3.86".
- 3. HORIZONTAL COORDINATE LOCATIONS SHOWN ON THE MAP OF SURVEY ARE STATE PLANE COORDINATES, FLORIDA WEST ZONE, NORTH AMERICAN DATUM 1983, 1990 ADJUSTMENT BASED ON NATIONAL GEODETIC SURVEY MONUMENTS "THOMPSON 2" AND "PALM".
- 4. ANY USE OF THIS SURVEY REPORT OR ELECTRONIC FILES FOR PURPOSES OTHER THAN WHICH IT WAS INTENDED, WITHOUT WRITTEN VERIFICATION, WILL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE UNDERSIGNED. NOTHING HEREIN SHALL BE CONSTRUED TO GIVE ANY RIGHTS OR BENEFITS TO ANYONE OTHER THAN THOSE CERTIFIED TO.
- 5. UNLESS IT BEARS THE SIGNATURE AND ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER INDICATED BELOW THIS REPORT IS NOT VALID.
- 6. ADDITIONS OR DELETIONS TO SURVEY MAPS, REPORTS OR ELECTRONIC FILES BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- 7. PROPERTY AND RIGHT OF WAY LINES AS BASED ON BOUNDARY PROVIDED BY OWNER. NO BOUNDARY SURVEY WAS PERFORMED AS PART OF THIS PROJECT.
- 8. WETLAND LINES ARE BASED ON TOB LOCATIONS AND OR GIS DATA

EXISTING LEGEND -

× 3.5 SPOT ELEVATIONS .. DIRECTION OF FLOW ... JURISDICTIONAL LINE ... SANITARY SEWER AND MANHOLE STORM SEWER LINE SIZE & MAT. XX" RCP **II O II O** WATER MAIN .. BURIED ELECTRIC & RISER CONTOUR LINE AND LABEL CENTERLINE . RIGHT OF WAY LINE AB-11 BORING ID & LOCATION. BENCHMARK LOCATION . LIGHT POLE UTILITY POLE ..

HATCH DESCRIPTION

CONCRETE LIMITS

TREE DESCRIPTION

(SPECIES OAK UNLESS OTHERWISE NOTED) NOTE: TREES GPS LOCATED

THIS PROJECT IS IN NAVD 88 DATUM NVGD 29 = 0 , NAVD 88 = (-) 0.883

PROPOSED LEGEND

SPOT ELEVATIONS ... DIRECTION OF FLOW TOP OF BANK . XXX LF OF XX" RCP STORM SEWER MANHOLE /INLET .. --DIRECTION OF SLOPE. CENTERLINE

SECTION NAME-

DOUBLE ROW SILT FENCE

SECTION NAME SECTION SECTION TAKEN ON SHEET NO.

HATCH DESCRIPTION SHEETS 9-15

CONCRETE LIMITS RIP-RAP LIMITS GEOWEB LIMITS

WETLAND ENHANCEMENT AREA SEE SHEETS 17 - 23 FOR DETAILS

WETLAND IMPACT ...

SECTION LOCATED ON SHEET NO

SPOIL REMOVAL AREAS AND/OR DITCH BACKFILL (SEE SHEETS 9 - 16 AND SHEET 29 FOR DETAILS

No. 71509

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No. 71509

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STATE OF

WILLIAM

STATE

Engineering License #2610

4921 Memorial Highway One Memorial Center, Suite 300 Tampa, Florida 33634 Phone 813 880-8881 Fax 813 880-8882

www kingengineering com

PALM RIVER RESTORATION (W367)

EAST Mc KAY BAY STORMWATER AND HABITAT RESTORATION SITES FOR

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

NOTES AND LEGEND

AS SHOWN

90% PLANS

NORTH SITE SOUTH SITE LAT. = 27" 56" 10" N LAT. = 27" 55" 41" N LONG. = 82" 24" 31" W LONG. = 82" 24" 31" W

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

OWNER'S ADDRESS: SURFACE WATER IMPROVEMENT & MANAGEMENT (SWIM) SECTION 7601 U.S. HIGHWAY 301 NORTH TAMPA, FLORIDA 33617

DESCRIPTION OF NATURE OF CONSTRUCTION ACTIVITY

INSTALLING STABILIZED CONSTRUCTION ENTRANCES, CONSTRUCTION OF EROSION AND SEDIMENT CONTROLS, CLEARING AND GRUBBING, SITE GRADING, EXCAVATION OF STORMWATER QUALITY PONDS, CONSTRUCTION OF DITCH BLOCKS, EXOTIC PLANT REMOVAL, DITCH BACKFILL AND VEGETATIVE PLANTING.

SITE AREA: NORTH SITE: 27.5 ACRES +/-SOUTH SITE: 13.0 ACRES

SEQUENCE OF MAJOR ACTIVITIES:

1. PRIOR TO COMMENCEMENT OF ANY WORK WITHIN THE PROJECT SITES, THE CONTRACTOR SHALL INSTALL ALL EROSION PROTECTION DEVICES THAT ARE CALLED FOR ON THE PLANS.

2. AFTER INSTALLATION OF THE EROSION CONTROL DEWICES, THE SITE CONTRACTOR MAY BEGIN CLEARING OPERATIONS WITHIN THE FOOTPRINT OF THE PROPOSED WORK AREA. THE SITE CONTRACTOR SHALL COMPLETE THE POND BERMS, INCLUDING STABILIZATION, IMMEDIATELY FOLLOWING CLEARING ACTIVITIES.

3. UPON COMPLETION OF THE POND BERMS, THE SITE CONTRACTOR SHALL INSTALL THE OUTFALL STRUCTURES, WITH TEMPORARY EROSION CONTROL DEWICES. THE SITE CONTRACTOR MAY ELECT TO INSTALL THE PERMANENT CONTROL STRUCTURE OR PROVIDE A TEMPORARY STRUCTURE DEPENDING ON THE PERM ELEVATION AND PERMANENT CONTROL STRUCTURE DEPENDING ON THE PERM ELEVATION AND PERMANENT CONTROL STRUCTURE DEPENDING ON THE PERM ELEVATION AND PERMANENT CONTROL STRUCTURE DEPENDING ON THE PERM ELEVATION AND PERMANENT CONTROL STRUCTURE DEPENDING ON THE PERM ELEVATION AND PERMANENT CONTROL STRUCTURE DEPENDING ON THE POND OUTFALL, THE SITE CONTRACTOR MAY BEGIN SITE CLEARING, EARTHWORK, DRAINAGE, AND MAINTENANCE ROADWAY CONSTRUCTION AS OF THE CONTRACTOR SHALL STRUCTURE WITHIN FIVE DAYS OF THE COMPLETION OF GRADING ACTIVITIES OF THE DISTURBED AREAS.

3. THE SITE CONTRACTOR SHALL REMOVE ALL EROSION PROTECTION DEVICES FOLLOWING PERMANENT STABILIZATION OF ALL DISTURBED AREAS.

NAME OF RECEIVING WATERS: MCKAY BAY

CONTROLS

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES

WIND EROSION STABILIZATION: THE CONTRACTOR SHALL DENUDE ONLY AREAS WHERE IT IS EXPECTED TO BE GRADED OR ALTERED WITHIN A TWO (2) WEEK TIME-FRAME, FINAL GRADES SHALL BE PERFORMED AND TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE APPLIED. AREAS WHERE CONSTRUCTION OPERATIONS WILL BE CONTINUOUS, FUGITIVE DUST SHALL BE MANAGED BY APPLINING A WATER SPRAY TO SATURATE THE SURFACE SOILS ON A DAILY BASIS, OR AS RECOED TO MAINTAIN MINIMAL DUST TRANSPORT. FUGITIVE DUST SHALL BE MONITORED CONTINUOUSLY AND ADDITIONAL MEASURES MAY NEED TO BE TAKEN TO CONTROL OFF-SITE TRANSPORT OF UNACCEPTABLE LEVELS OF DUST.

IEMPORARY STABILIZATION: TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH HYDROSEED NO LATER THAN 5 DAYS FROM THE LAST CONSTRUCTION ACTIVITY.

PERMANENT. STABILIZATION: DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH SOD OR PLANT MATERIAL OUTLINED ON PLAN NO LATER THAN 5 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.

STRUCTURAL PRACTICES

STAKED SILT FENCES: THE STAKED SILT FENCES WILL BE CONSTRUCTED AS SHOWN ON THE PLANS. THESE DEVICES WILL STOP AND DIVERT RUNOF TO THE SEDIMENT BASINS.

SEDIMENT BASINS: THE STORM WATER MANAGEMENT AREAS WILL ACT AS SEDIMENT BASINS DURING CONSTRUCTION. THE SEDIMENT BASINS WILL BE CONSTRUCTED TO THE DESIGN CROSS-SECTION, OR A MINIMUM OF 2' BELOW EXISTING GROUND AT THE CONTRACTORS DISCRETION TO ALLOW SILTS TO BE COLLECTED AND REMOVED PRIOR TO COMPLETION OF THE GRADING.

STORM WATER MANAGEMENT

STORM WATER DRAINAGE WILL BE PROVIDED BY A CURB, SWALE, STORM SEWER, AND CATCH BASIN SYSTEM FOR THE DEVELOPED AREAS. SWALES TO BE SODDED AND INCLUDE CHECK DAMS AND RIPRAP TO CONTROL RUNOFF VELOCITY AND TRANSPORT OF SEDMENT. WHEN CONSTRUCTION IS COMPLETE THE IMPROVED PORTION OF THE SITE WILL DRAIN TO STORM WATER PONDS. THE PONDS WILL BE IN THE LOCATION OF THE TEMPORARY SEDMENT BASINS. WHEN UPSLOPE AREAS ARE STABILIZED, THE ACCUMULATED SEDMENT WILL BE REMOVED FROM THE SEDMENT BASINS. THE PONDS HAVE BEEN DESIGNED BY A PROFESSIONAL ENGINEER TO LIMIT PEAK FLOW RATES FROM THE DESIGN STORM EVENT AT OR BELOW PRE-DEVELOPMENT RATES, AND CONSTRUCTION PER DETAILS SHOWN IN THE PLANS IS IMPERATIVE.

OTHER CONTROLS

WASTE DISPOSAL

WASTE MATERIALS: ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN DUMPSTERS PER HILLSBOROUGH COUNTY SOLID WASTE REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTERS. THE DUMPSTERS WILL BE EMPTED A MINIMUM OF ONCE A WESK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAVELED TO A REGISTERED LANDFILL FOR DISPOSAL NO CONSTRUCTION MATERIALS WILL BE BURIED ON-SITE ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE ON-SITE OFFICE TRAILER AND THE CONSTRUCTION MANGER RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FULLOWED.

HAZARDOUS WASTE: ALL HAZARDOUS WASTE MATERIALS, IF ENCOUNTERED, WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

SANITARY WASTE: ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY LOCAL REGULATION.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEAKED AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE MILL BE, COVERED WITH A TRAPBULIN AT ALL TIMES.

TIMING OF CONTROL MEASURES

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, STAKED SILT BARRIERS, STABILIZED CONSTRUCTION ENTRANCES AND SEDIMENT BASINS WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORABILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A HYDROSEED WITHIN 5 DAYS OF THE LAST DISTURBANCE ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN THAT AREA MILL BE STABILIZED WITH PERMANENT SOO, AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE TRAPS AND THE STAKED SILT BARRIERS WILL BE REMOVED.

CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS

THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) REQUIREMENTS FOR STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL, AS ESTABLISHED BY THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 62-4. THIS PLAN REFLECTS THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

MAINTENANCE INSPECTION PROCEDURES

EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES

THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROL

ALL CONTROL MEASURES IN DISTURBED AREAS WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24 HOURS OF THE END OF ANY STORM EVENT OF 0.25 INCHES OR GREATER BY A CONTRACTORS REPRESENTATIVE, (WHERE SITES HAVE BEEN FINALLY STABILIZED SUCH INSPECTIONS SHALL BE COMDUCTED AT LEAST ONCE EVERY MONTH.) ALL MEASURES WILL BE MAINTAINED IN COOD WORKING ORDER: IF A REPAIR IS NECESSARY, IT WAS INTERED WITHIN 24 HOURS OF REPORT, BUILT UP SCHOWNT WILL BE REMOVED FROM SLIT FENCE WHEN IT THE FABRIC SIS SCURELY ATTACHED TO THE FENCE SLIT FENCE WILL BE INSPECTED REGULARLY FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF FARE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF SANSW MILL BE INSPECTED FOR DEPTH OF SEDIMENT, THE FENCE POSTS, AND DESCRIPTION OF THE FENCE POSTS, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE SENIENT AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE SENIENT AND PERMANENT GRASSINGS, SODDING WILL BE INSPECTED FOR BURE SPOTS, SHALL BE KEPT IN AN ACTIVE LOG READILY AVAILABLE AT THE LOG STABLE BY AND ELECTRIC TRAVELE. THE SITE SUPERINTENENT WILL SELECT WILL BE BY THE CONTRACTOR AND MEANTENANCE REPORT WILL BE BY THE CONTRACTOR. PERSONNEL SELECTED FOR MEAN EXPERIMENTATION FROM THE STIE SUPERINTENENT WILL BE RESPOTS, MAINTENANCE REPORT WILL BE BY THE CONTRACTOR. PERSONNEL SELECTED FOR MAINTENANCE REPORT WILL BE BY THE CONTRACTOR. PERSONNEL SELECTED FOR MAINTENANCE REPORT FROM THE STIE SUPERINTENENT WILL SELECT WILL BE BY THE CONTRACTOR. PERSONNEL SELECTED FOR MAINTENANCE RESPONS TO SEE IF MILLS WILL RECEIVE TRAINING FROM THE STIE SUPERINTENED IN ALL MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE ERDISION AND SEDIMENT CONTROLS.

NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

WATER FROM FIRE FIGHTING ACTIVITIES, FIRE HYDRANT FLUSHING, WATER LINE FLUSHING, WATER USED TO SPRAY OFF LOOSE SOILS FROM VEHICLES, DUST CONTROL, PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED). ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.

GROUNDWATER DEWATERING ACTIVITIES ARE NOT COVERED BY THIS PERMIT, THE CONTRACTOR MUST APPLY FOR COVERAGE UNDER THE GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY PURSUANT TO 62-621.300 (2), F.A.C.

INVENTORY FOR POLLUTION PREVENTION PLAN

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED, BUT NOT LIMITED, TO BE PRESENT ON-SITE DURING CONSTRUCTION

PAINTS (ENAMEL AND LATEX)
METAL STUDS
SAND

PETROLEUM BASED PRODUCTS AND FUELS CLEANING SOLVENTS WOOD STONE

SPILL PREVENTION

MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT.

AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER CONTAINER DENCLOSURE, PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.

THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.

PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURFLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.

THE FOLLOWING PRODUCT SPECIFIC PRACTICES WILL BE FOLLOWED ON-SITE:

ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE WILL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.

CONTRACTOR SHALL DESIGNATE AN AREA FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND SHALL INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE. HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON

THIS PROJECT IS IN NAVD B8 DATUM NVGD 29 = 0, NAVD 88 = (-) 0.883

SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE. EQUIPMENT AND MATERIALS WILL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.

ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

THE SPILL AREAS WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.

THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING, THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PREVENTION AND CLEANUP, THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER

NOTICE OF TERMINATION

A NOTICE OF TERMINATION WILL BE SUBMITTED TO EPA AFTER THE CONSTRUCTION HAS BEEN COMPLETED AND THE SITE HAS UNDERGONE FINAL STABILIZATION.

POLLUTION PREVENTION PLAN CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS HAVE BEEN READ BY ME OR MY DESIGNATED REPRESENTATIVE AND UNDERSTAND THAT THIS SYSTEM HAS BEEN PREPARED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR CATHERING THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCUMENTE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING WOLATIONS.

OWNER:	
SIGNED:	
AME AND TITLE:	
COMPANY:	SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT - SWIM SECTION
ADDRESS:	7601 U.S. HIGHWAY 301 NORTH
	TAMPA, FLORIDA 33617
DATE:	

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERIC STORM WATER PERMIT ISSUED PURSUANT TO SECTION 403.0885, F.S., THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE	FOR	RESPONSIBLE FOR
NAME:	COMPANY:ADDRESS:PHONE:	GENERAL CONTRACTOR
NAME:	COMPANY:	DAVID SAME CENSE STAND PERMANENT STAND OF THE STAND STAND STAND STANDARD ST
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Engineering License #2610

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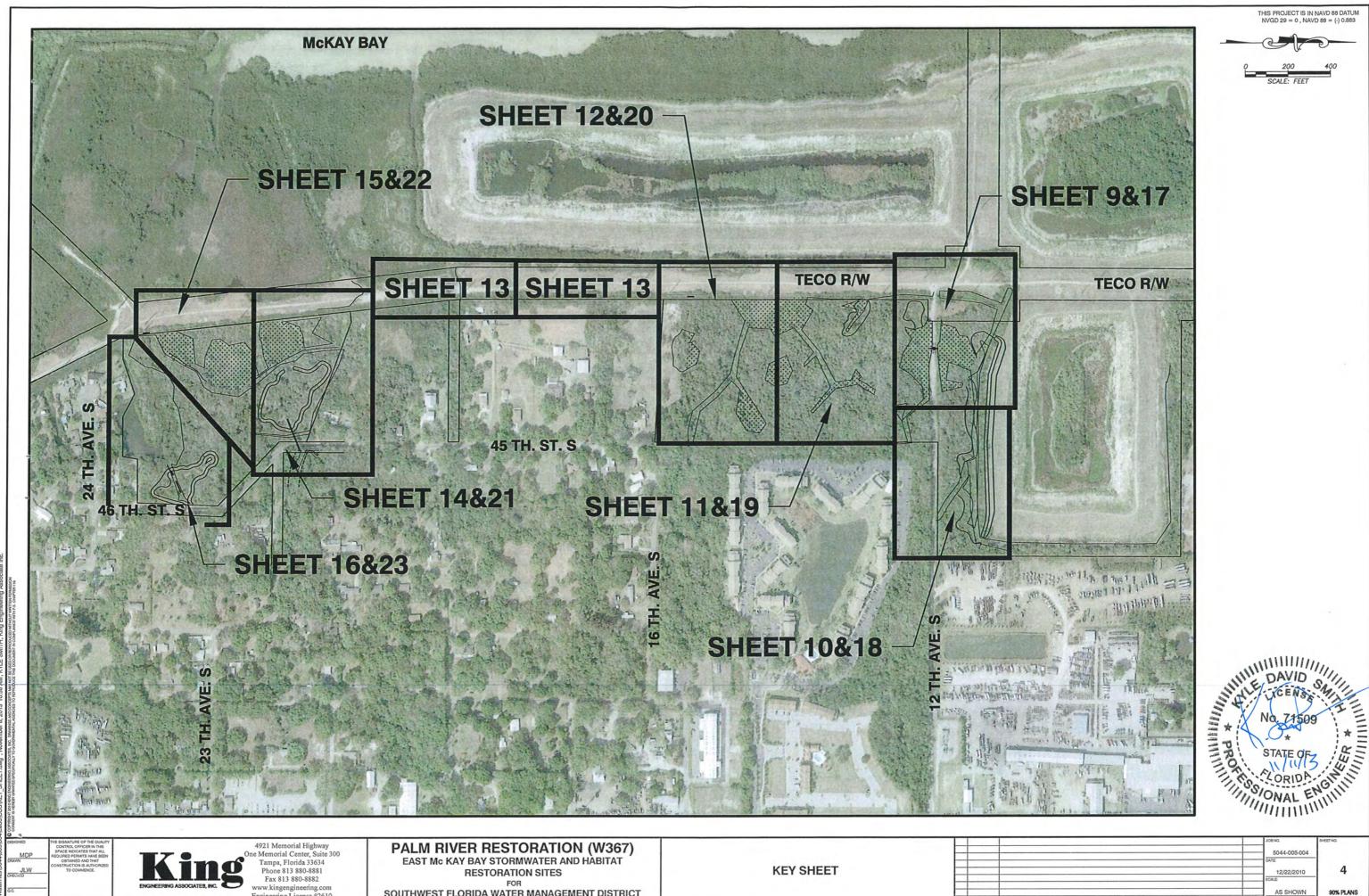
PALM RIVER RESTORATION (W367) EAST Mc KAY BAY STORMWATER AND HABITAT RESTORATION SITES

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

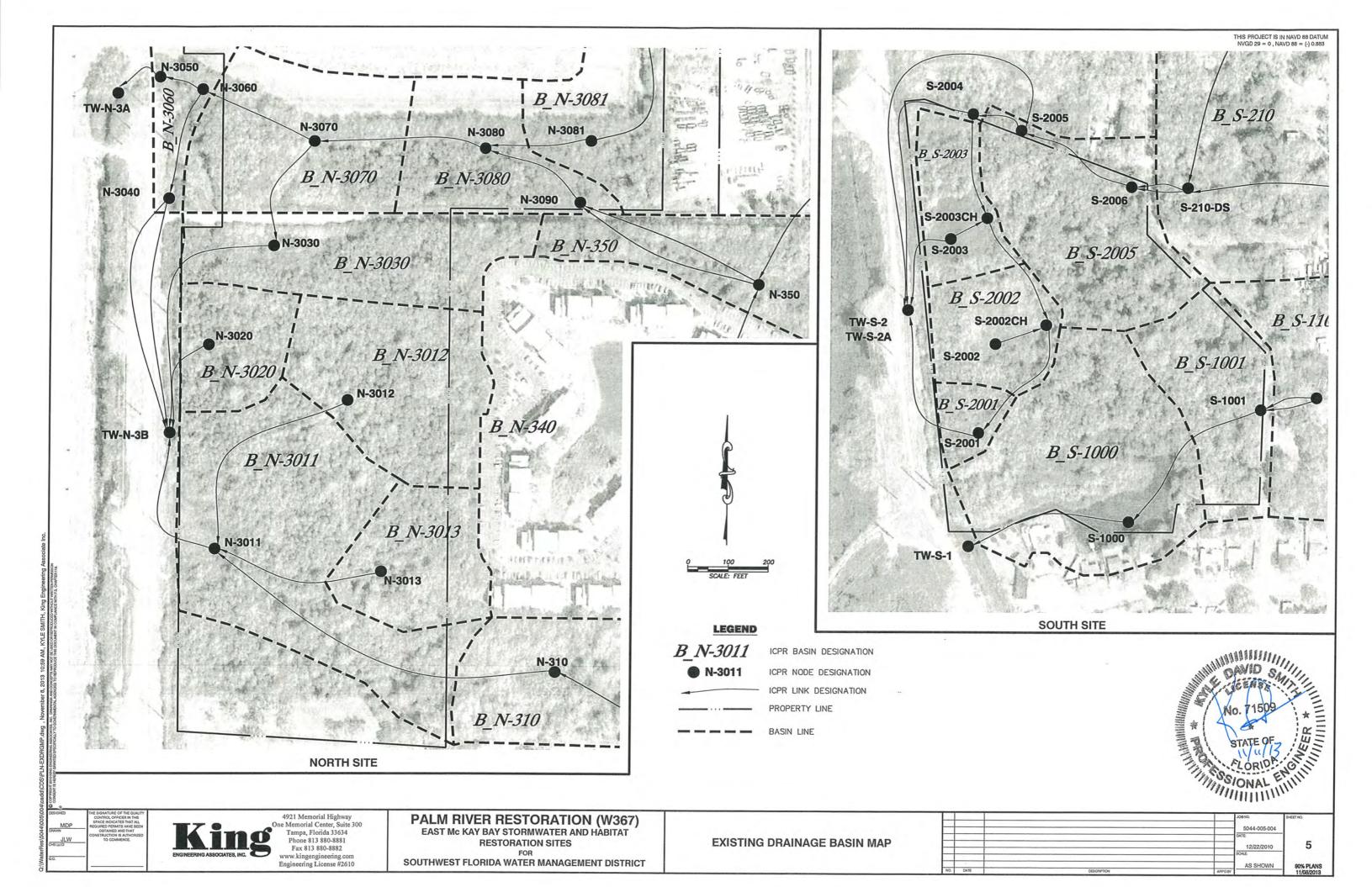
CONSTRUCTION POLLUTION PREVENTION PLAN

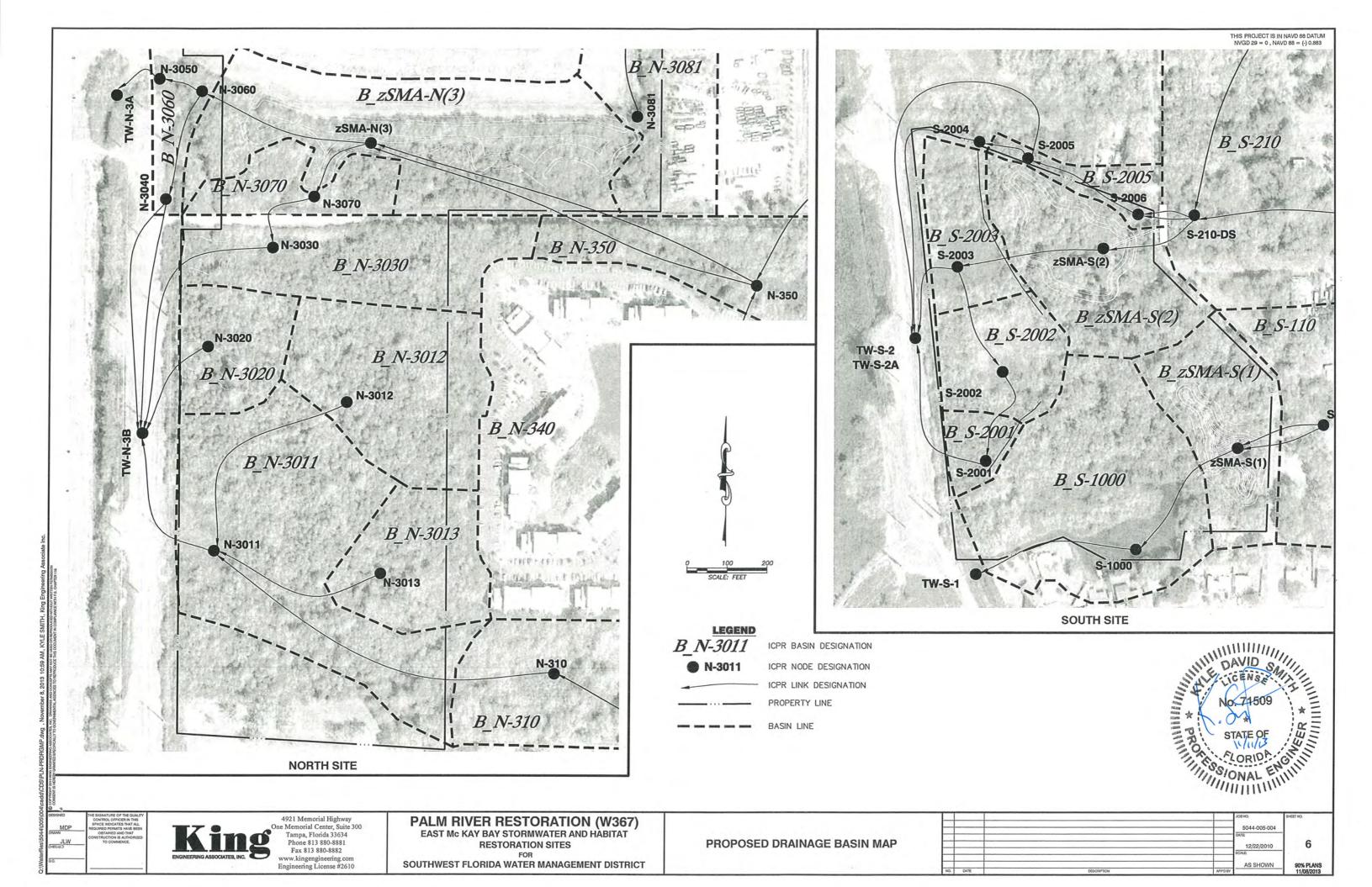
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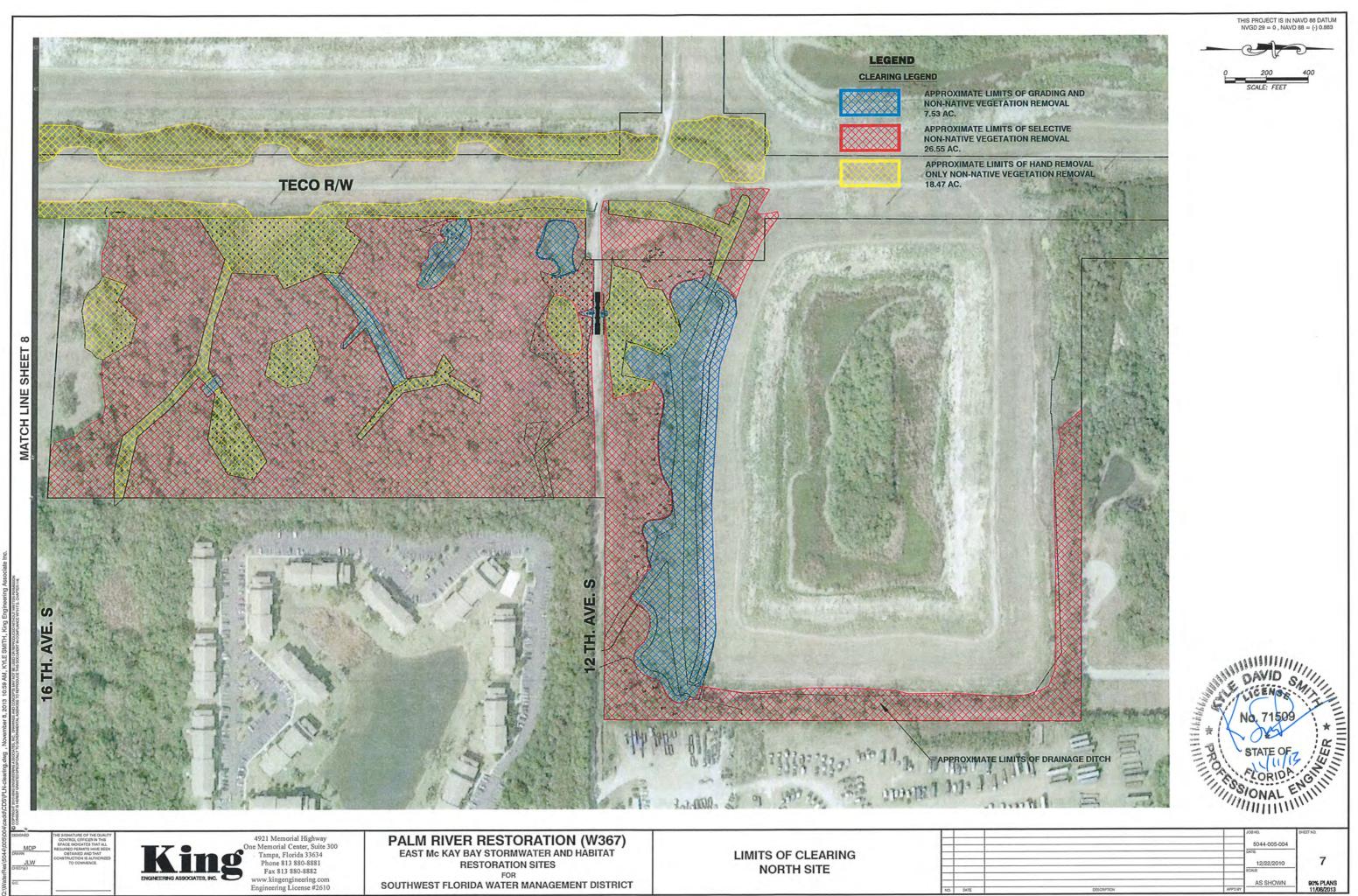
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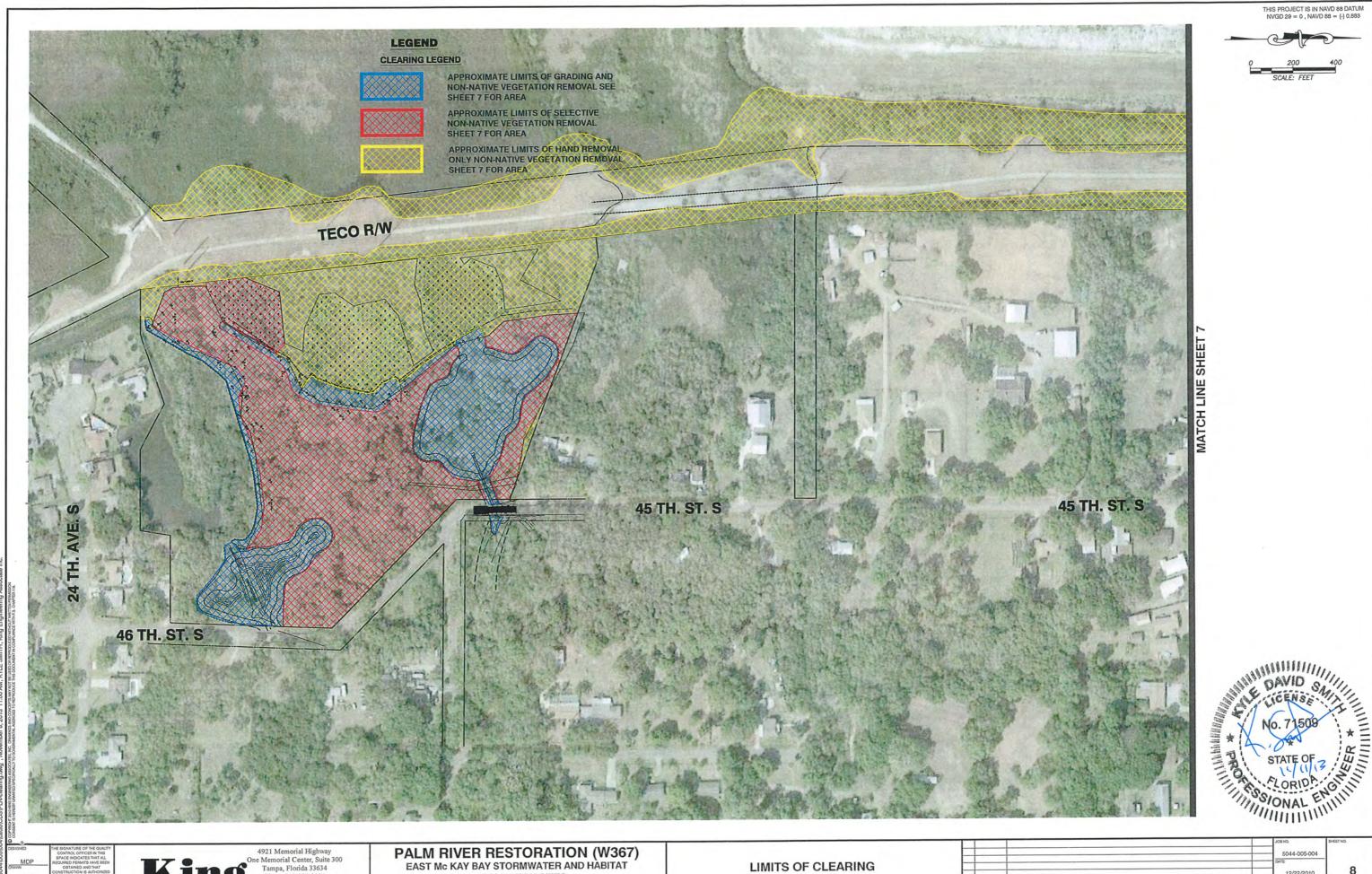


SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT







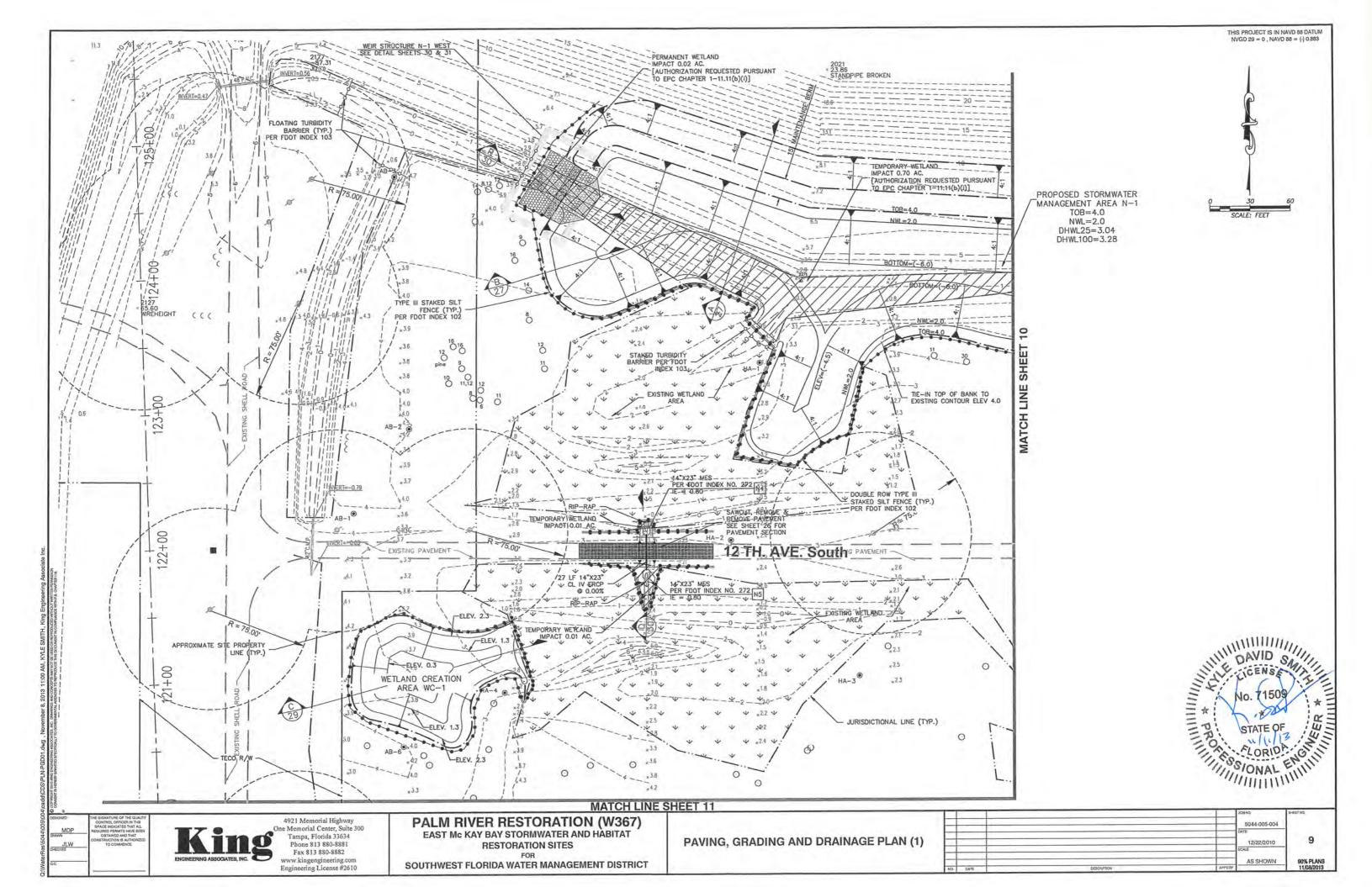


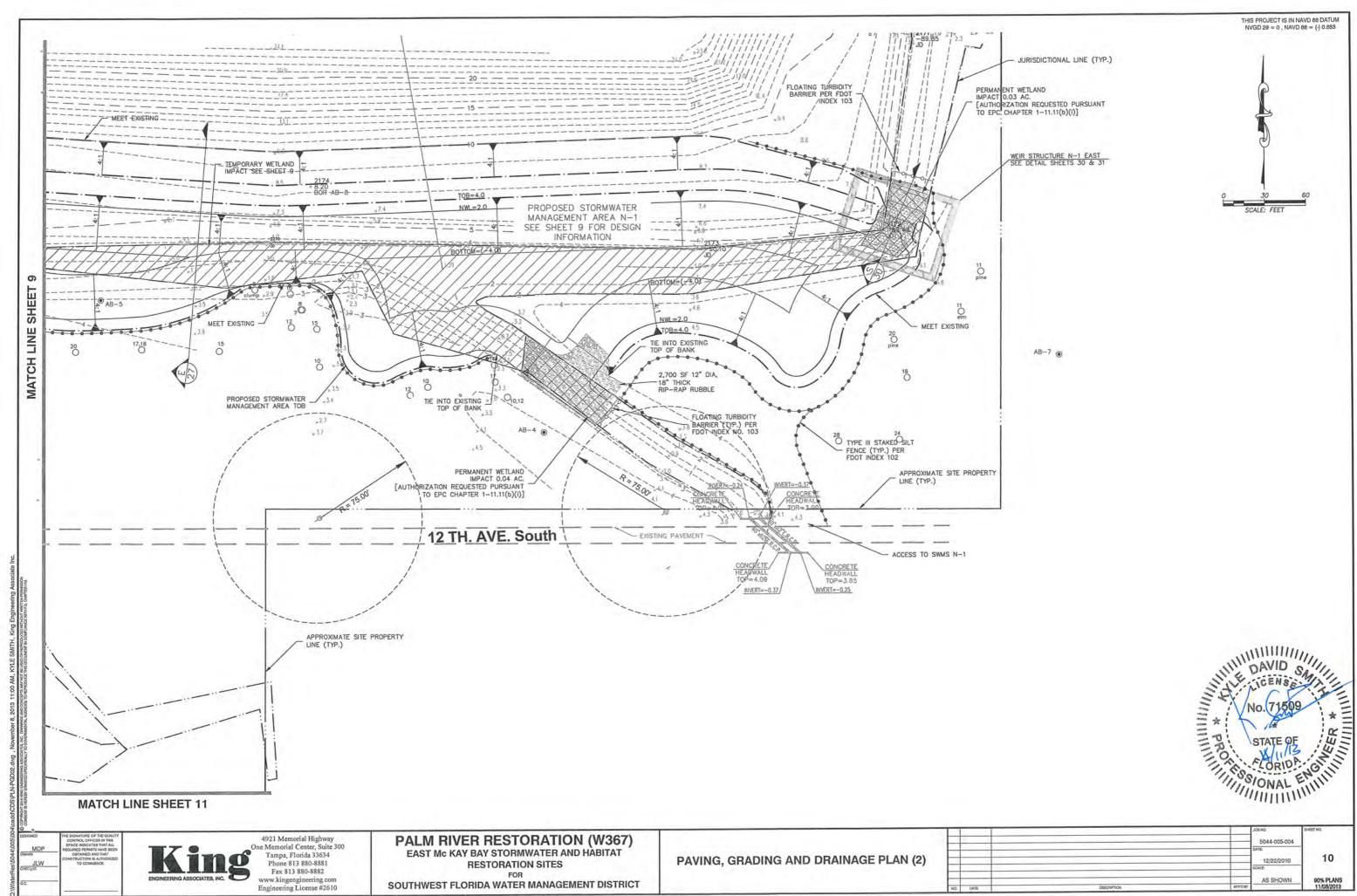
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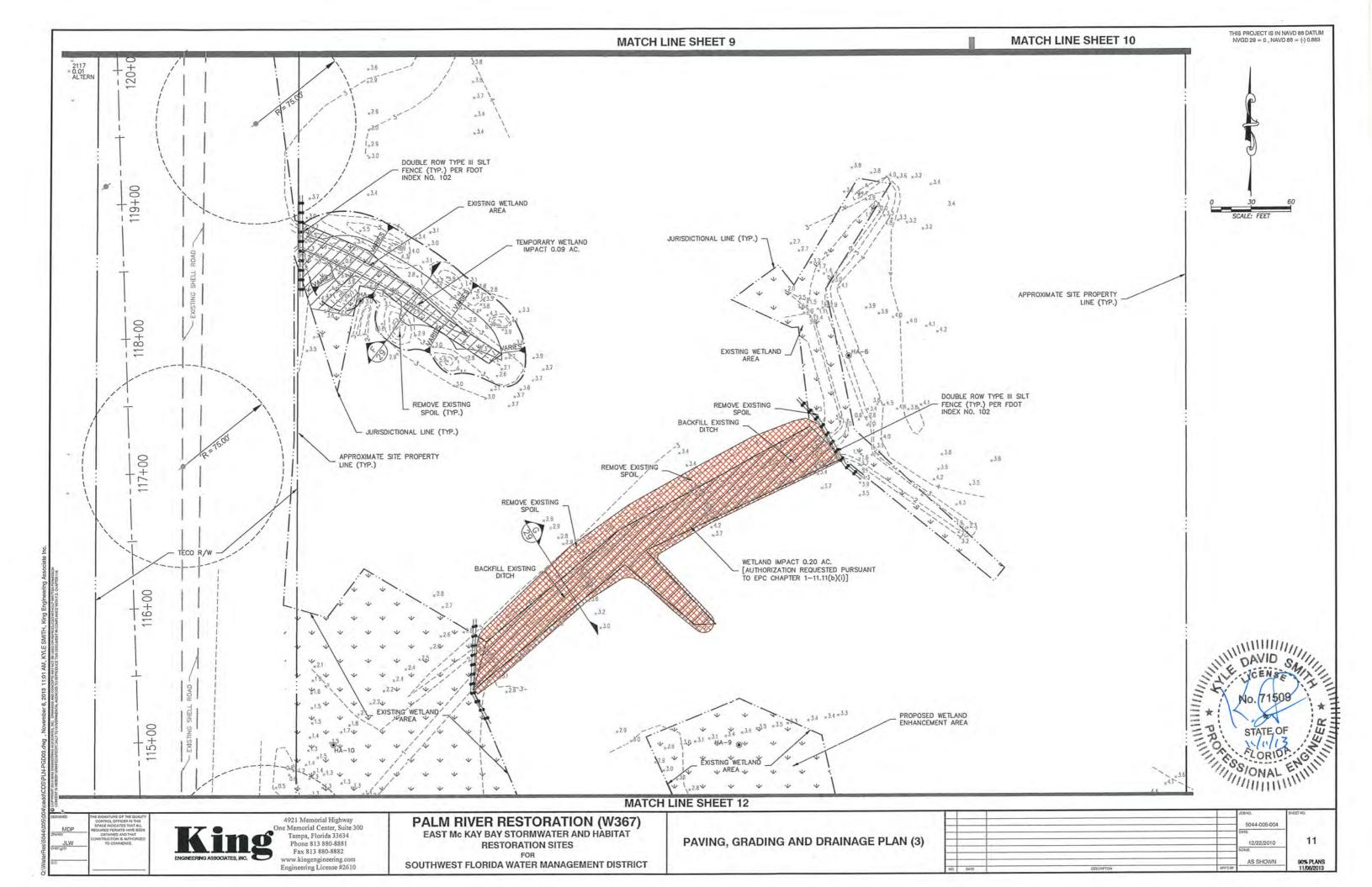
RESTORATION SITES

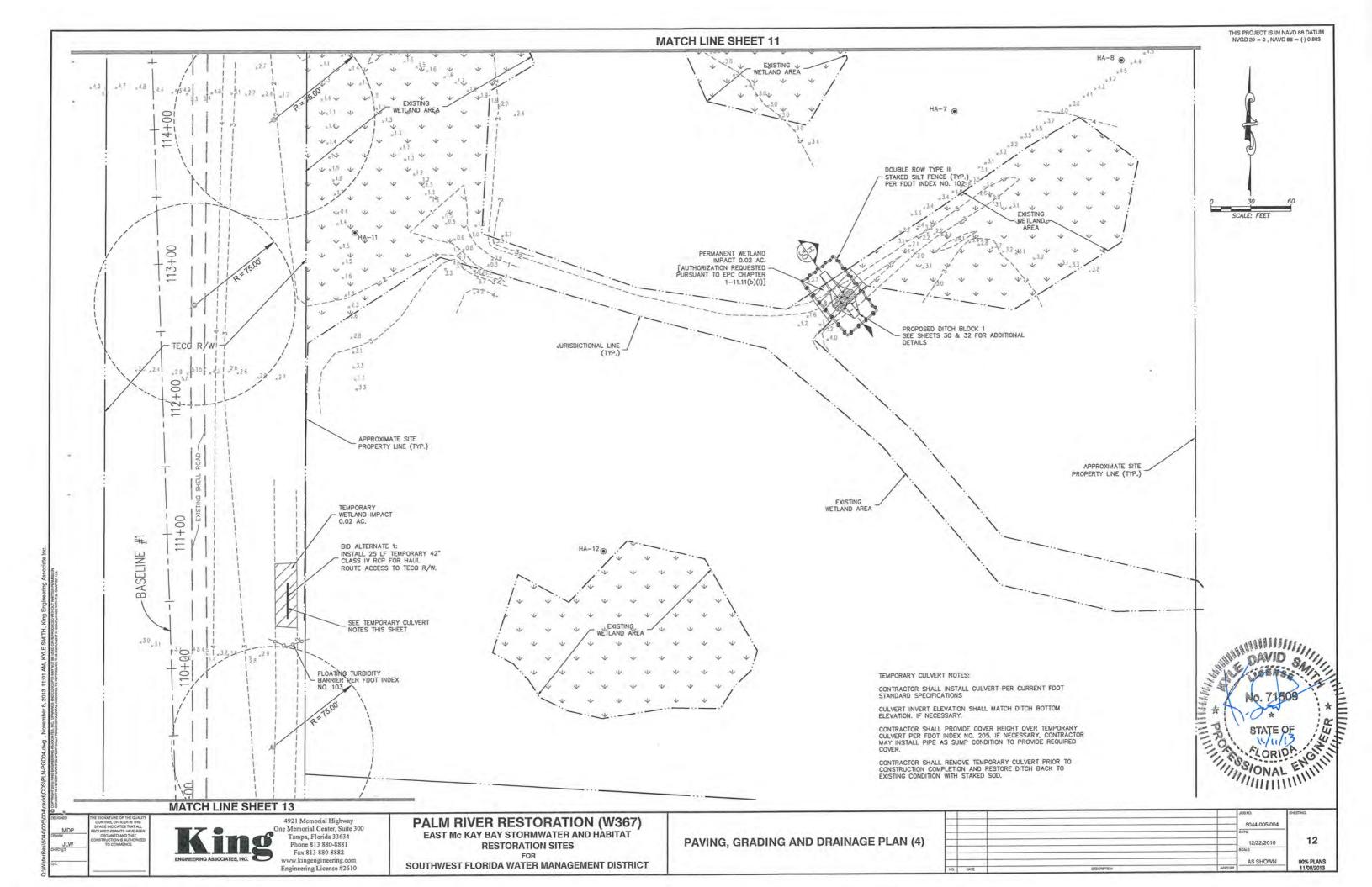
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

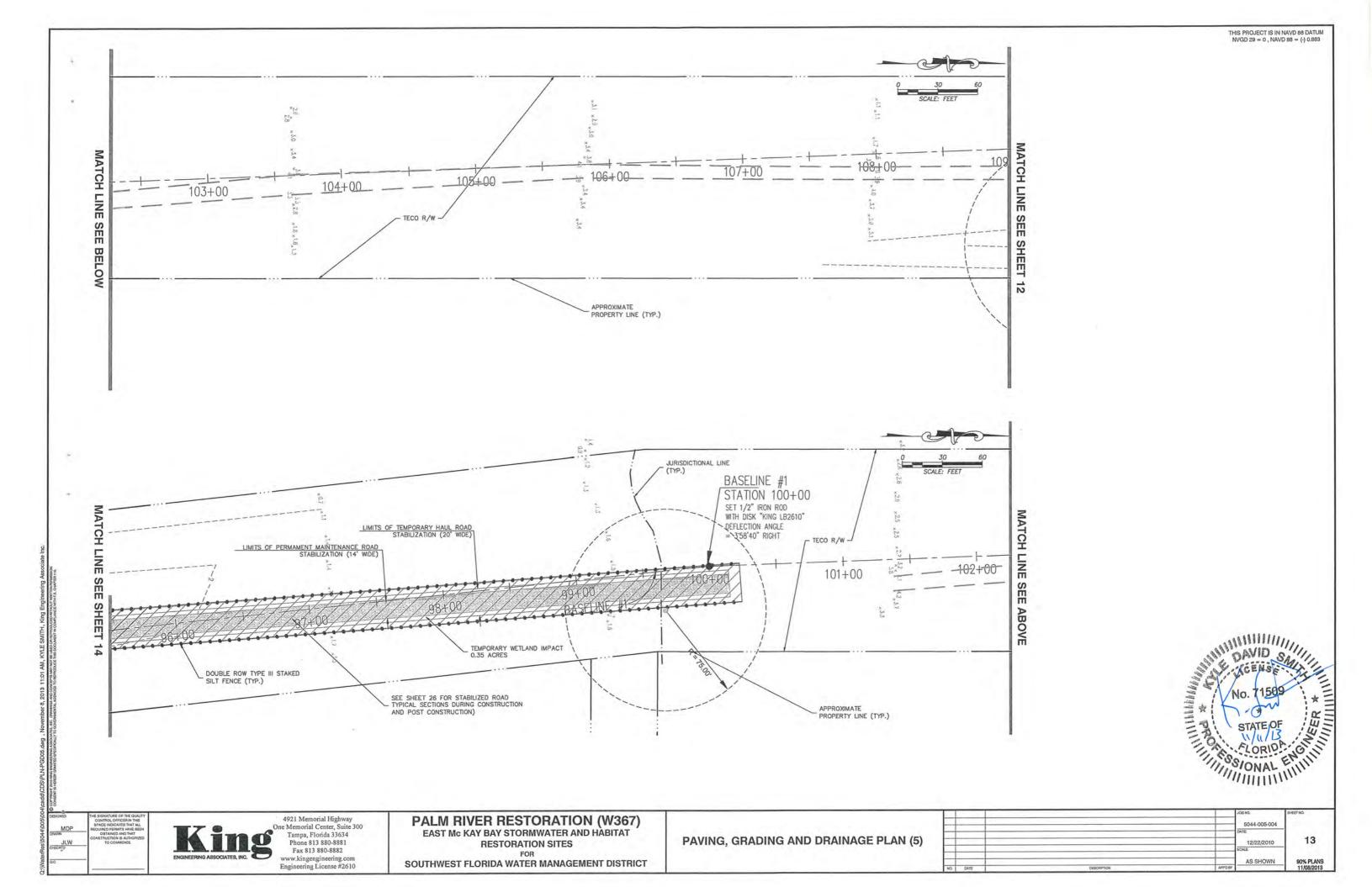
SOUTH SITE

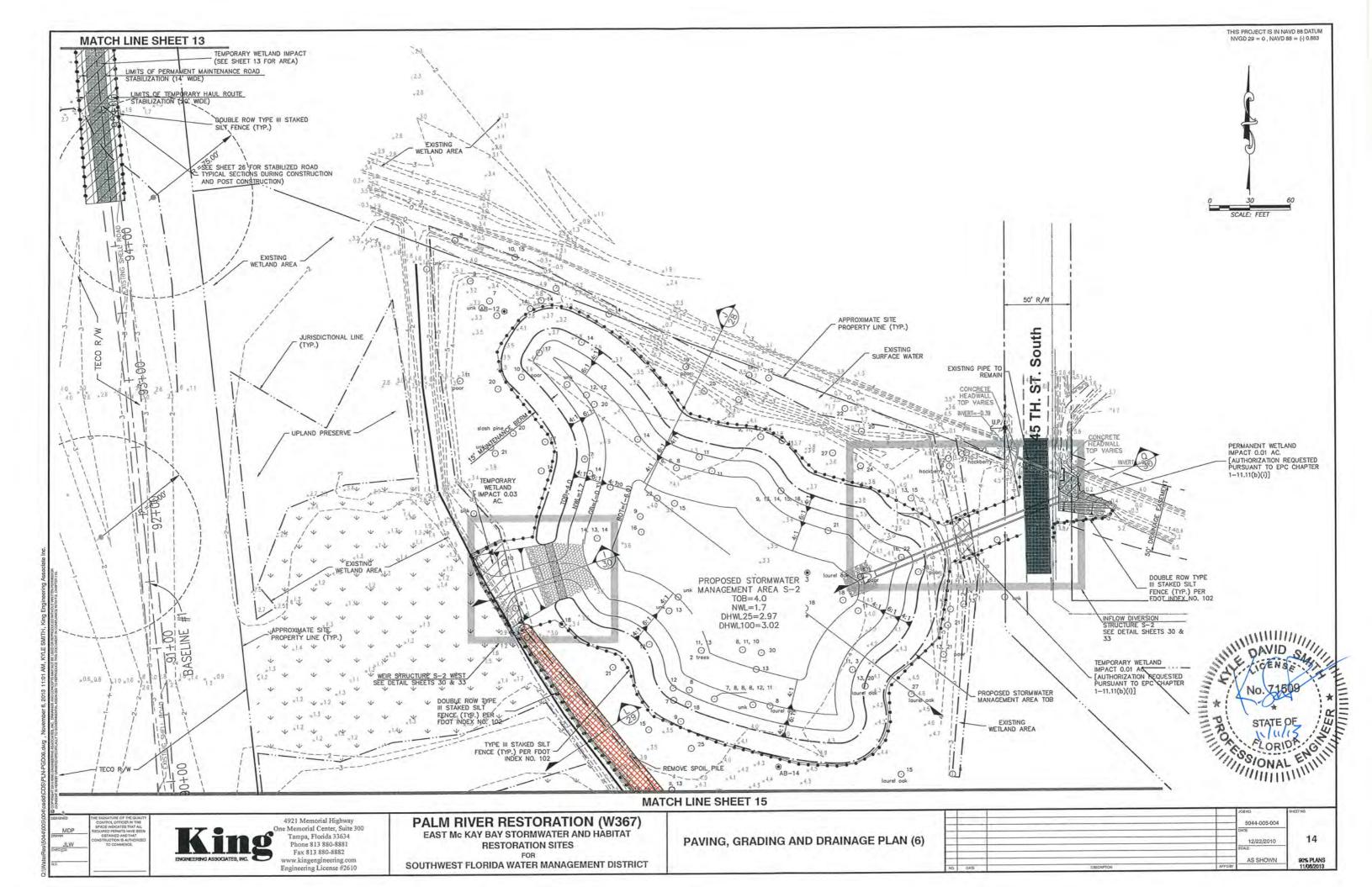


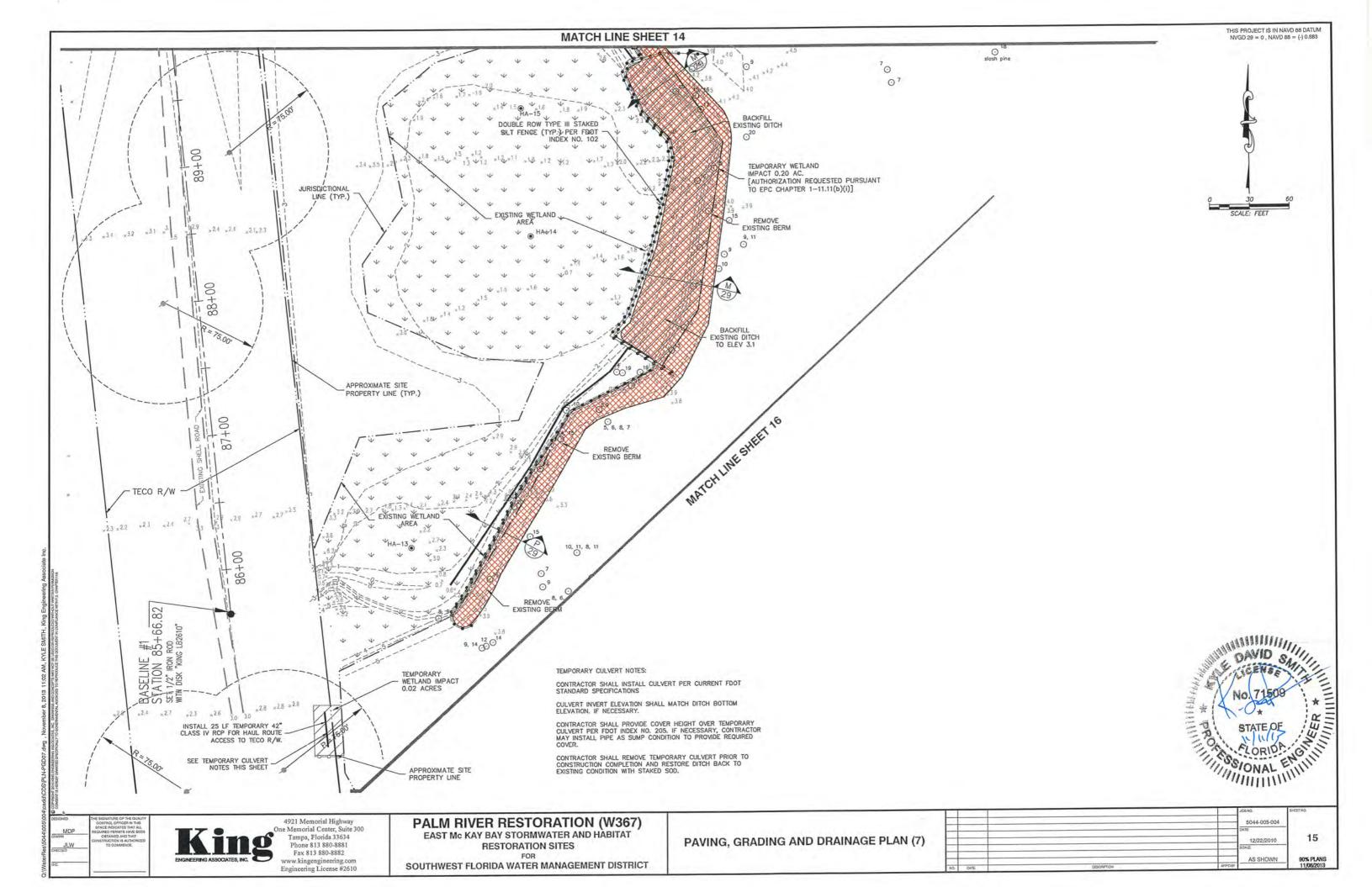


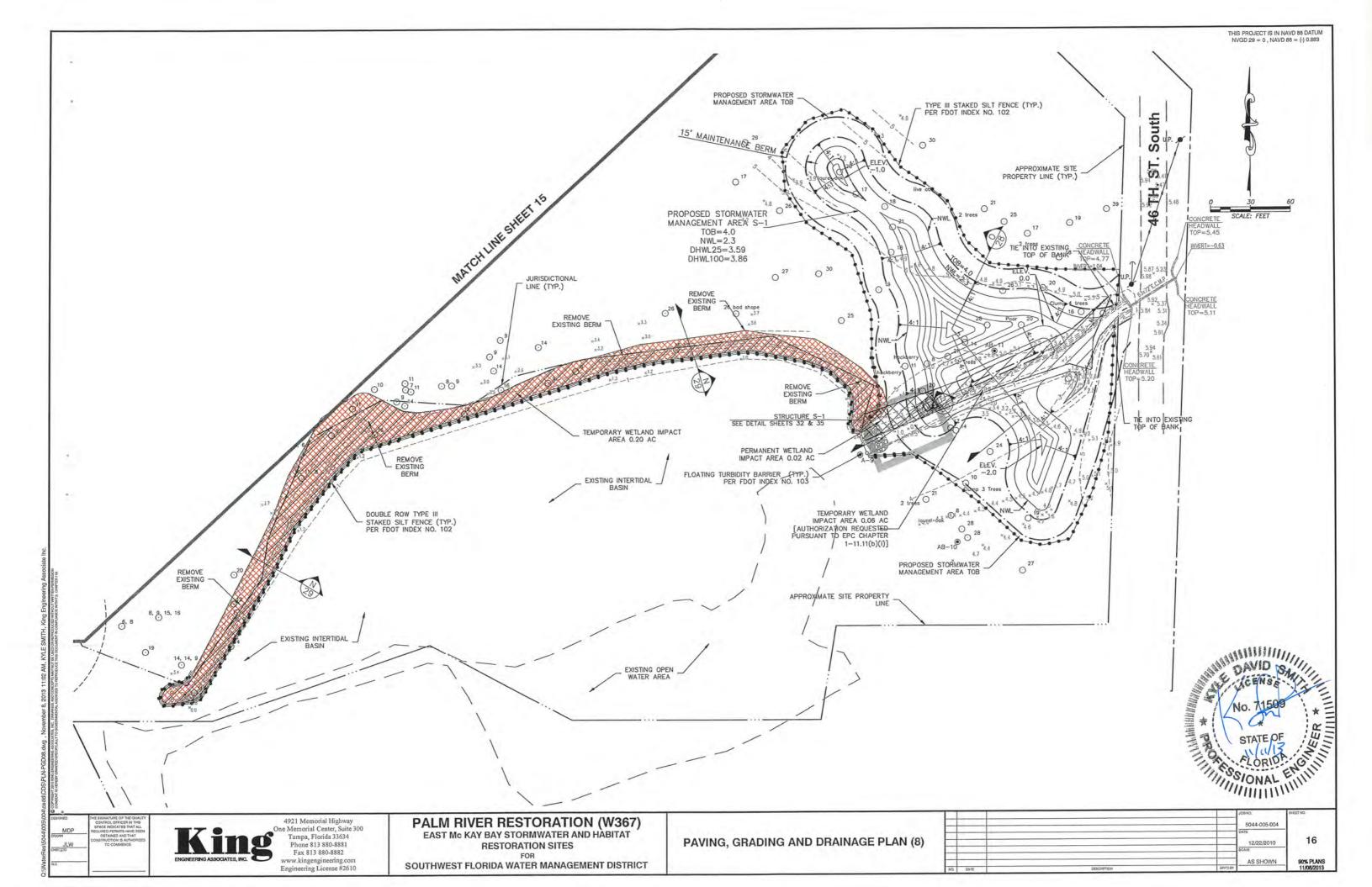


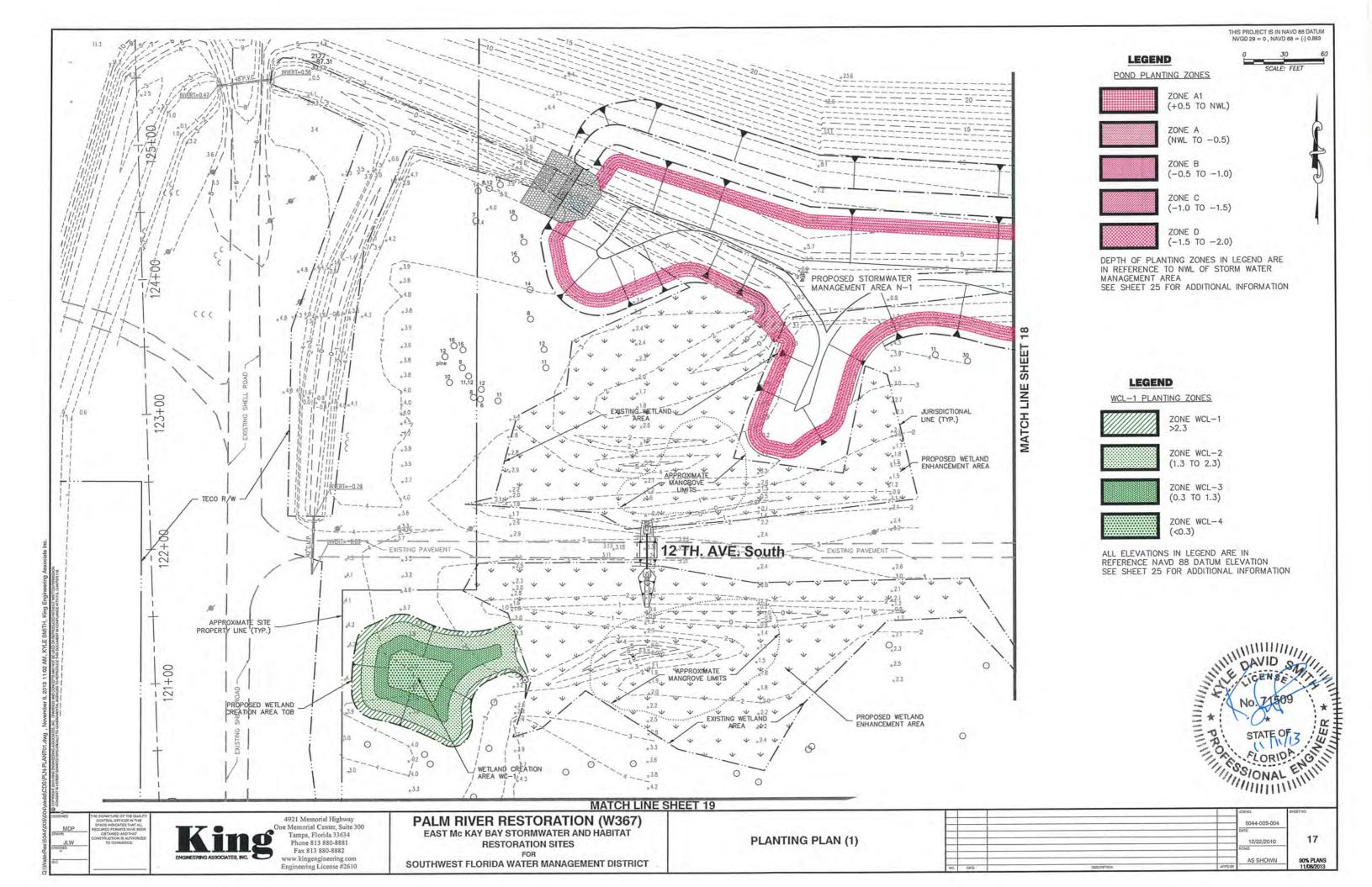


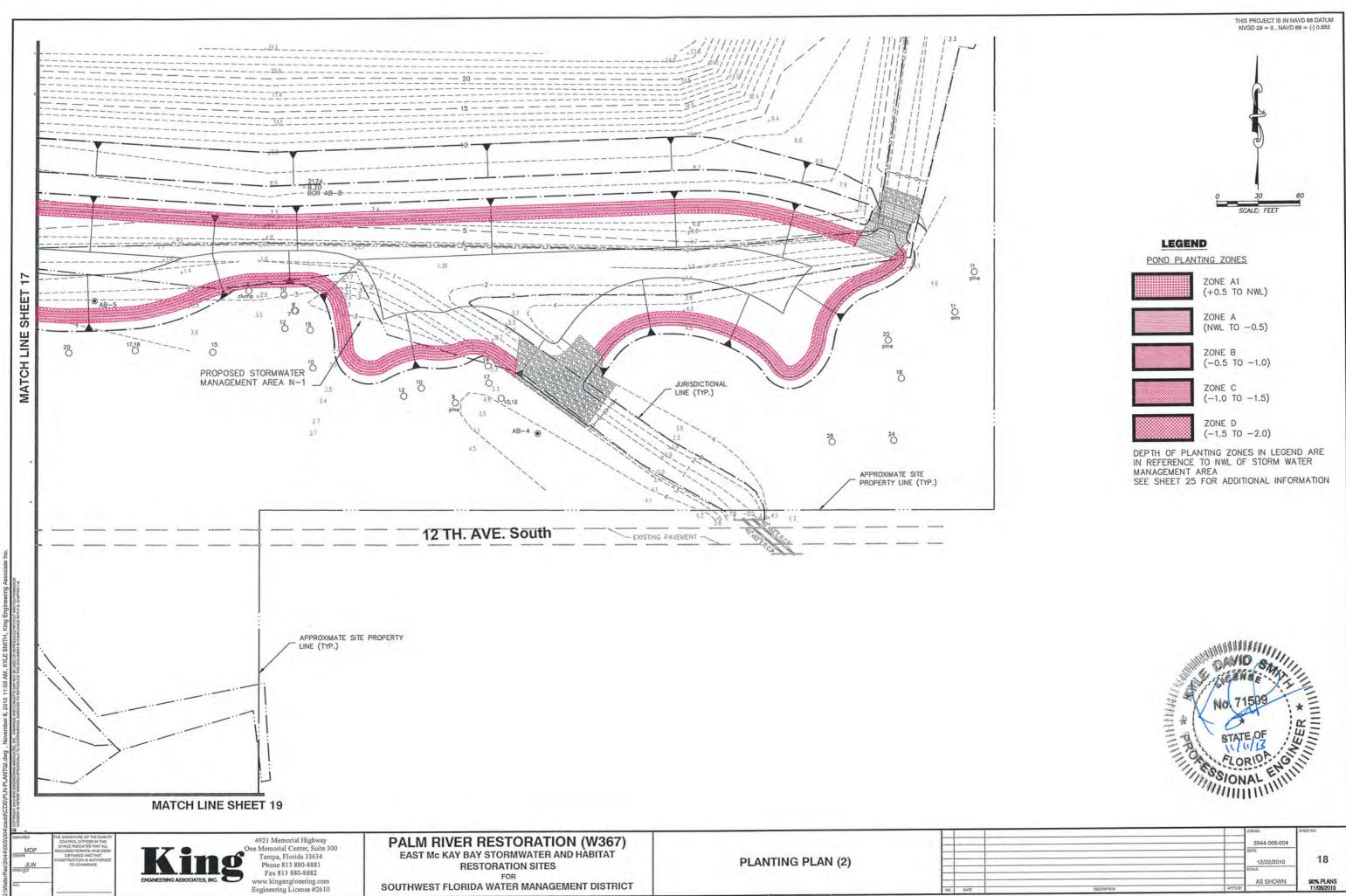


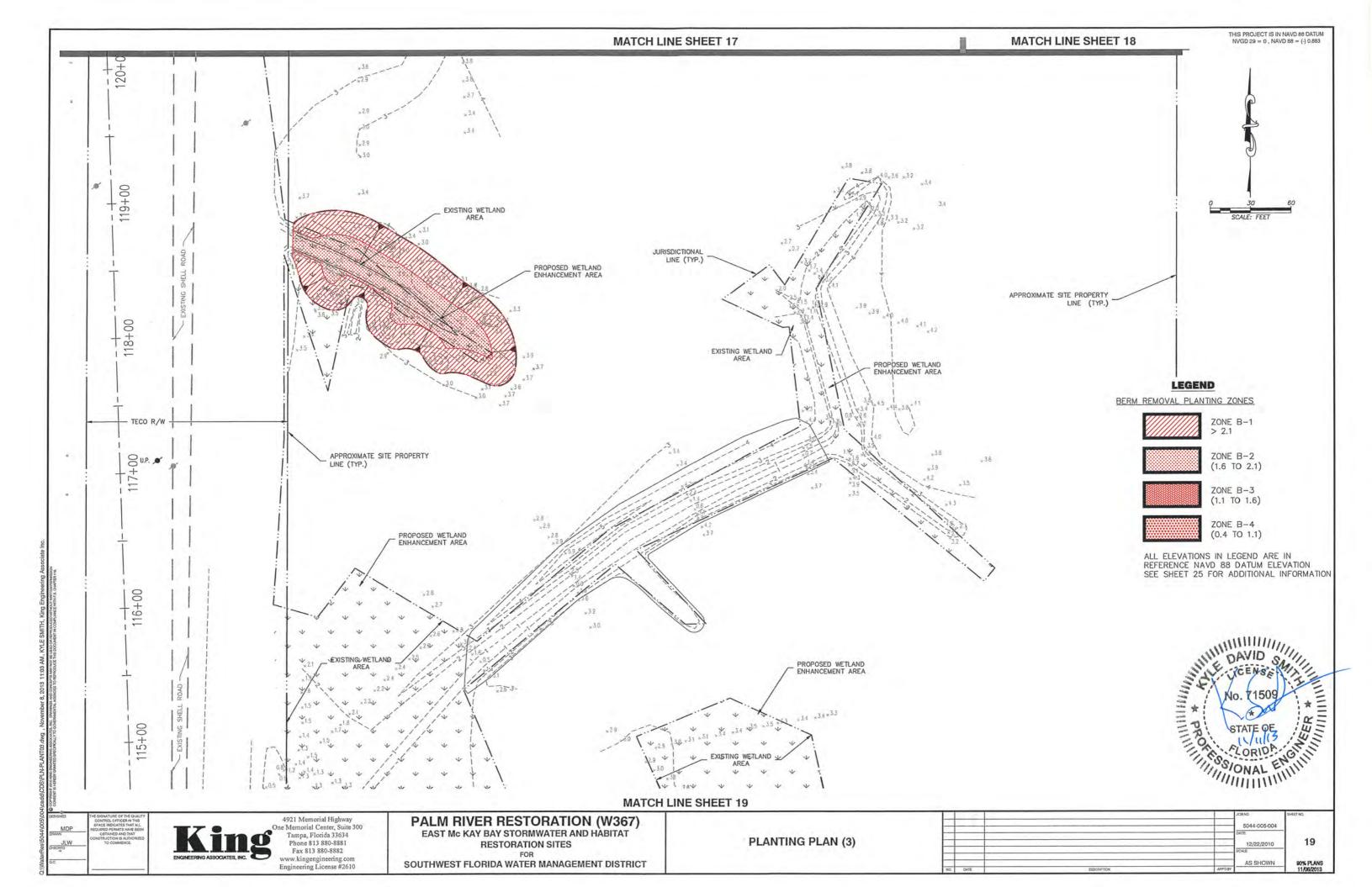


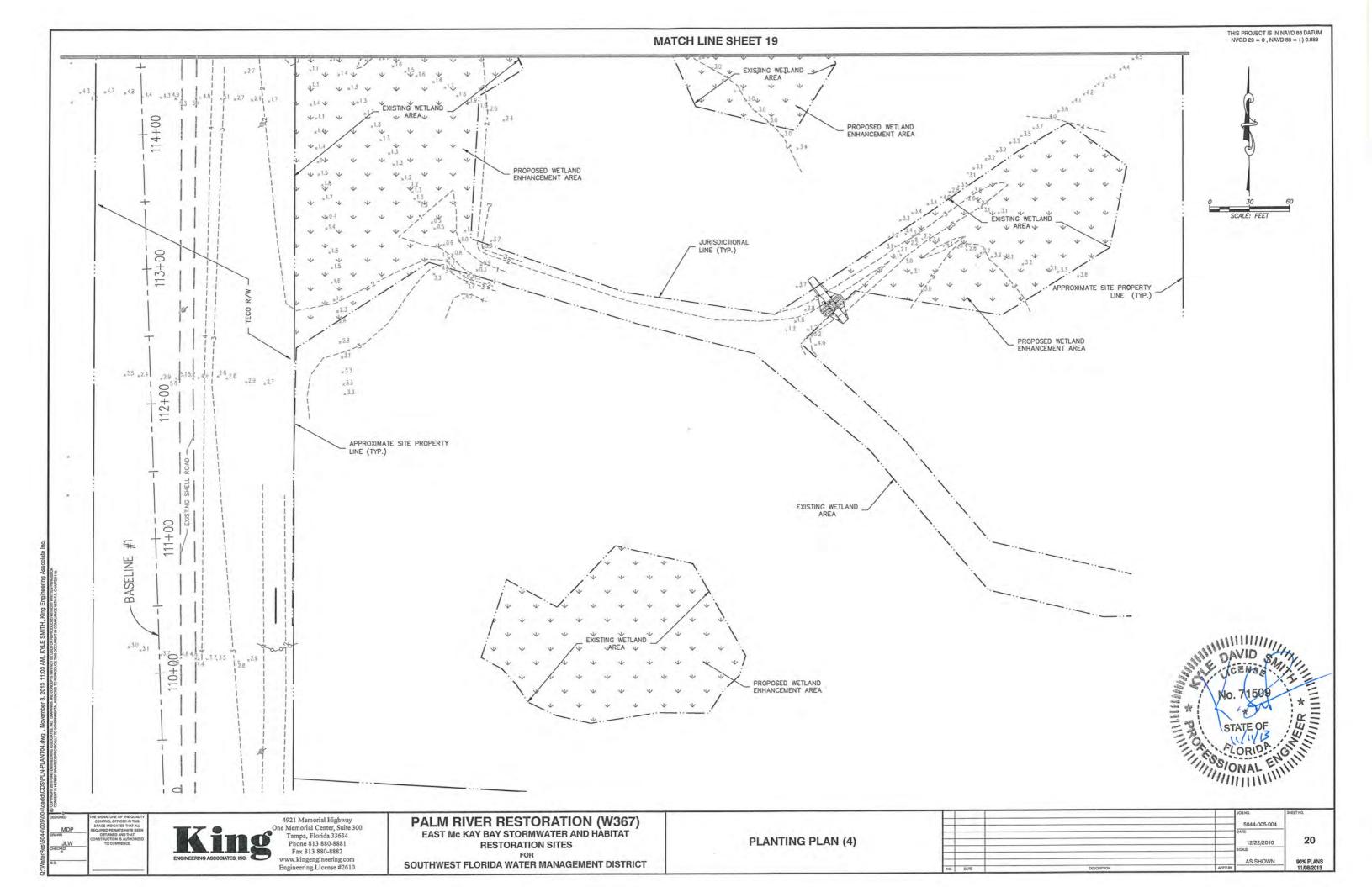


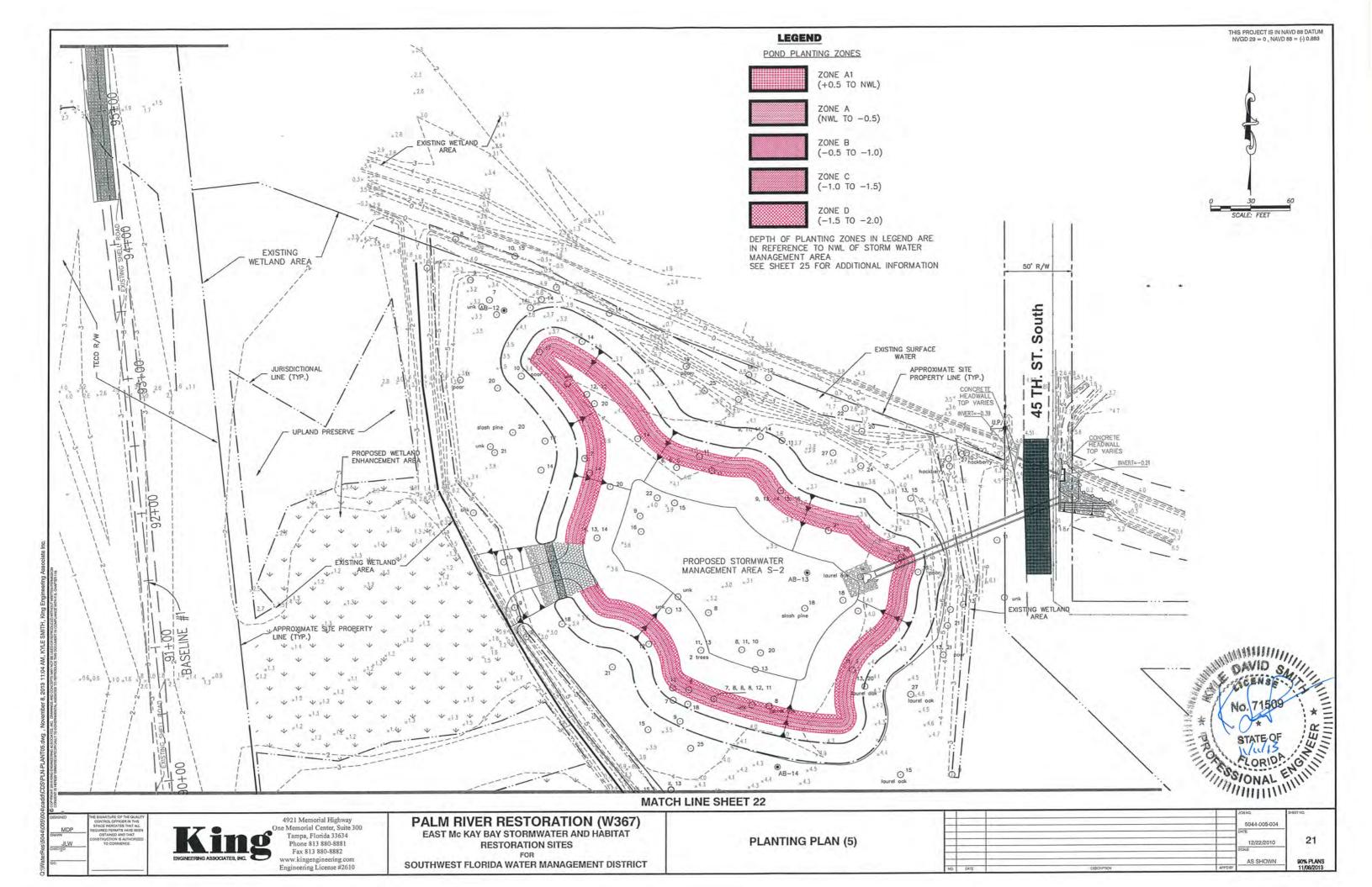


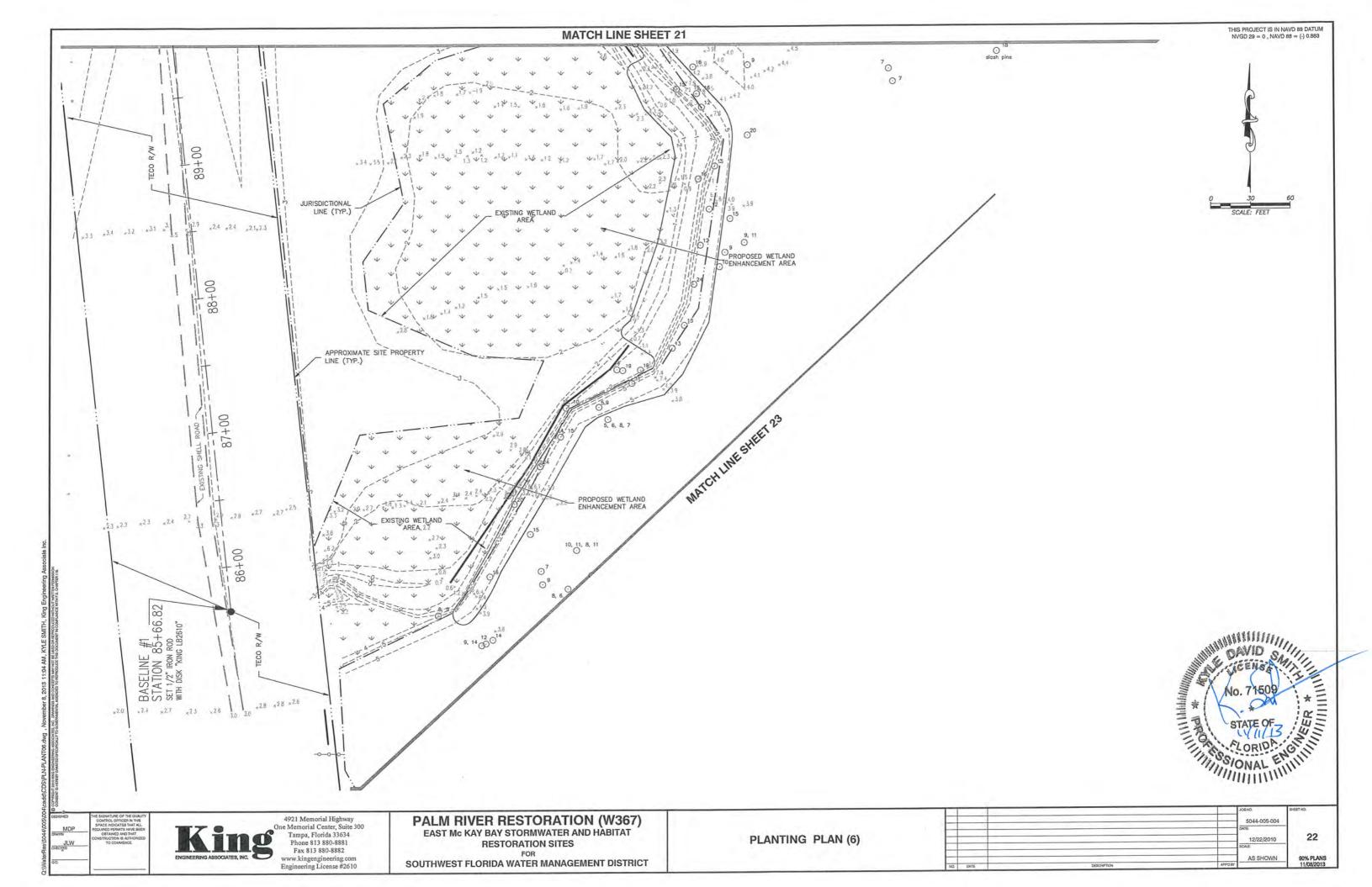


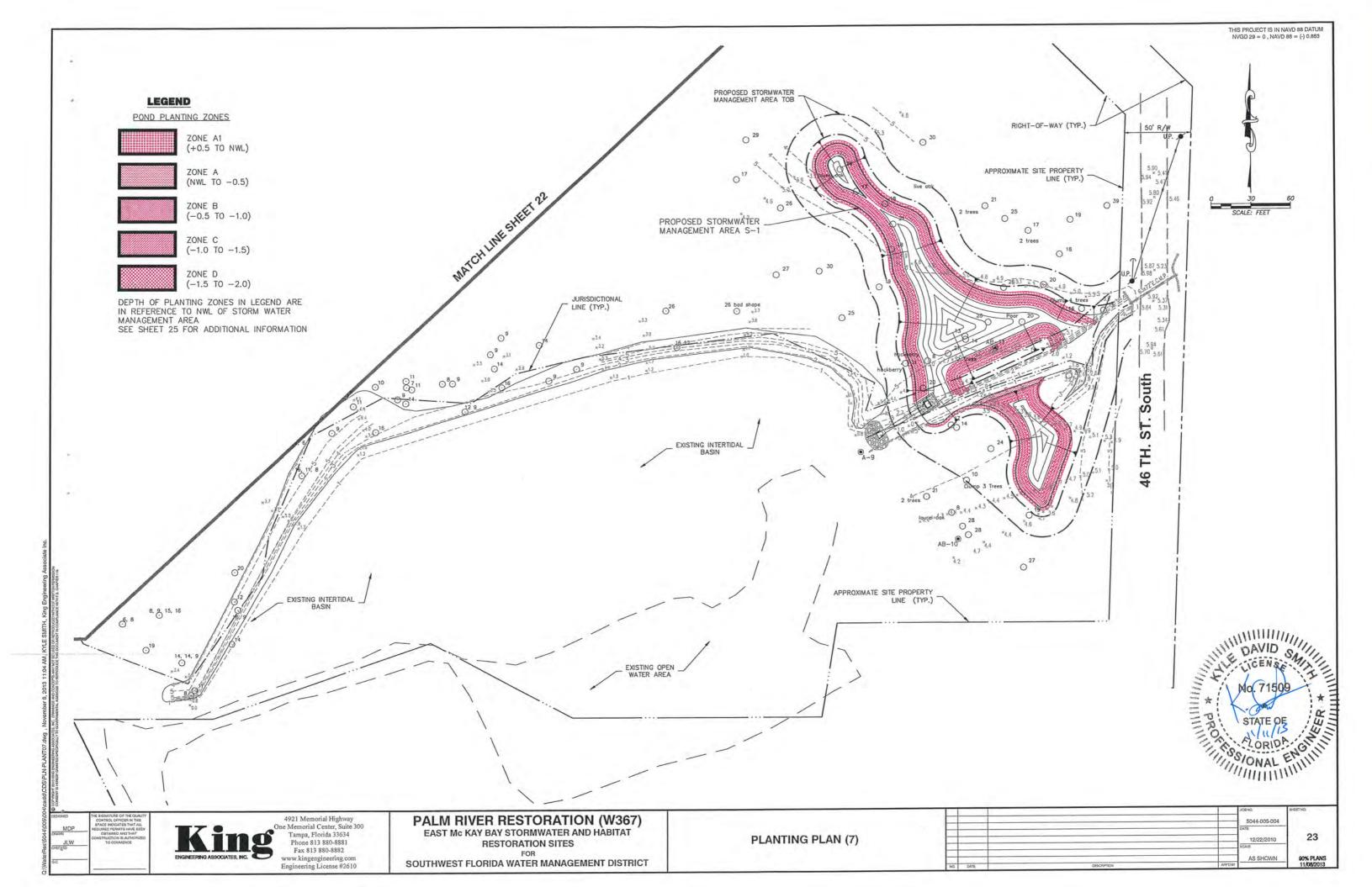


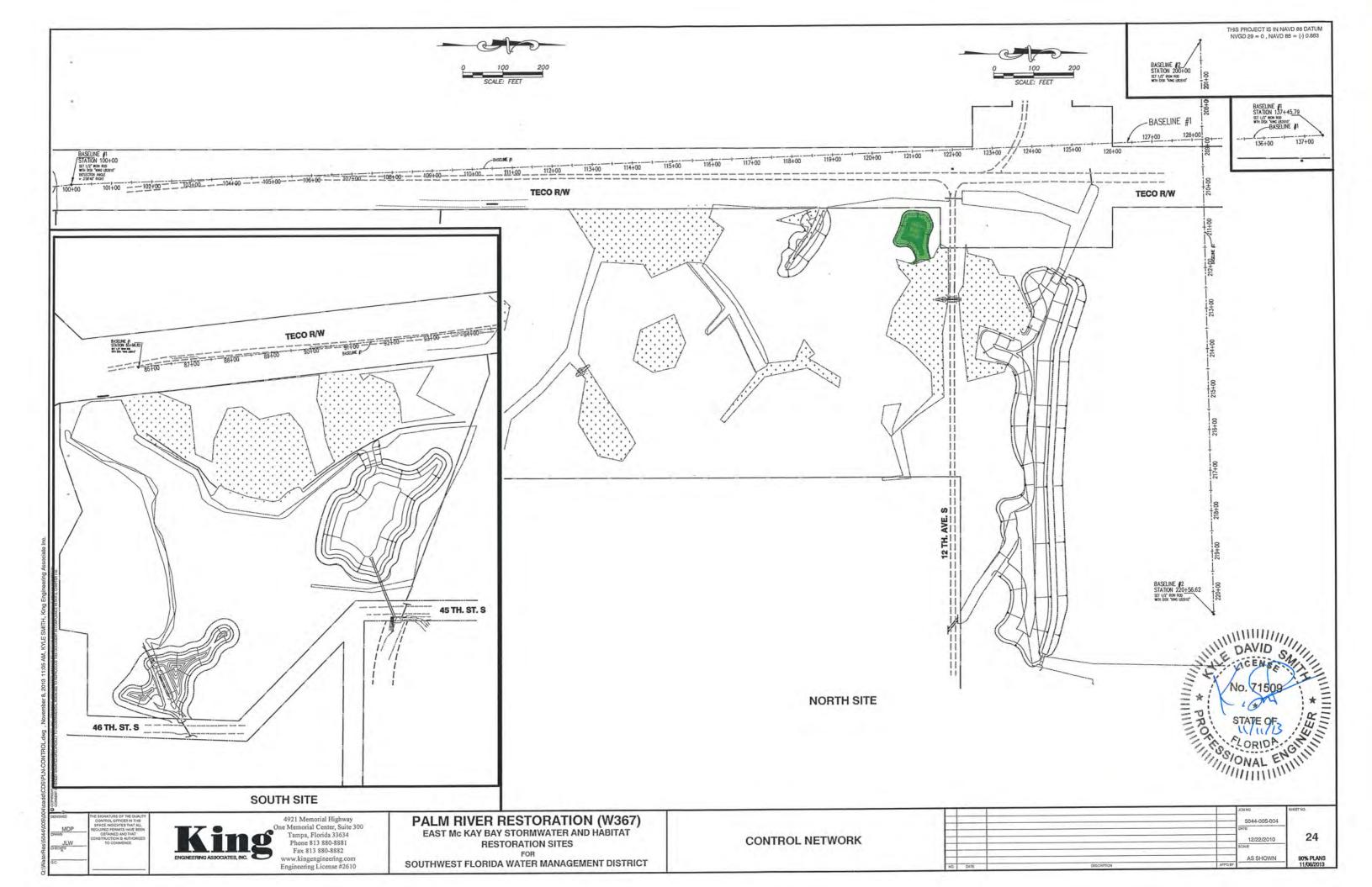


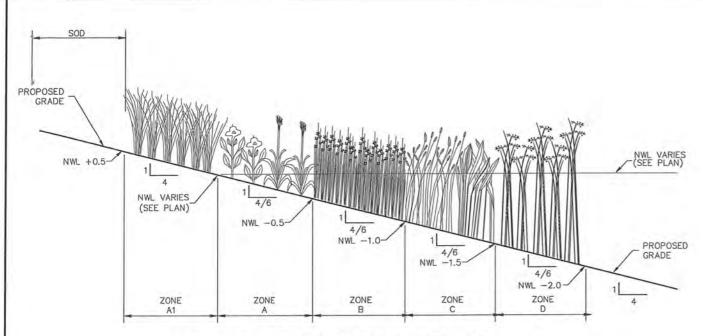




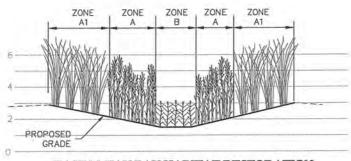






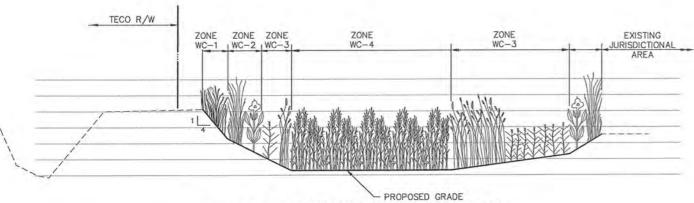


EAST McKAY BAY WATER QUALITY IMPROVEMENT POND N-1, S-1 AND S-2 PLANTING SECTION



EAST McKAY BAY HABITAT RESTORATION BERM REMOVAL AND REGRADING PLANTING SECTION

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EAST McKAY BAY HABITAT RESTORATION WETLAND CREATION AREA WC-1 PLANTING SECTION

EAST McKAY BAY WATER QUALITY IMPROVEMENT POND N-1, S-1 AND S-2 PLANTING SCHEDULE

ZONE	SPECIES	COMMON NAME	PLANTING DEPTH	SIZE	SPACING	N-1 # UNITS	S-1 # UNITS	S-2 # UNITS	STRATUM	% COVER
A1	SPARTINA BAKERI	SAND CORDGRASS	+0.50 TO NWL	4" POT	3' O.C.	0	0	0	G	80
	CANNA FLACCIDA	GOLDEN CANNA	NWL TO -0.5	4" POT	3' O.C.	0	0	0	G	40
A	CRINUM AMERICANUM	STRING-LILY	NWL TO -0.5	4" POT	3' O.C.	0	0	0	G	40
В	JUNCUS ROEMERIANUS	BLACK NEEDLE RUSH	-0.5 TO -1.0	4" POT	3' O.C.	0	0	0	G	40
^	ELEOCHARIS CELLULOSA	COASTAL SPIKERUSH	-1.0 TO -1.5	4" POT	3' O.C.	0	0	0	G	40
C	SAGITTARIA LANCIFOLIA	ARROWHEAD	-1.0 TO -1.5	4" POT	3' O.C.	0	0	0	G	40
D	SCIRPUS ROBUSTUS	BULRUSH	-1.5 TO -2.0	4" POT	3' O.C.	0	0	0	G	80

NOTE: DEPTH OF PLANTING ZONES IN SCHEDULE ARE IN REFERENCE TO NWL OF THE STORM WATER MANAGEMENT AREA

EAST McKAY BAY HABITAT RESTORATION BERM REMOVAL AND REGRADING PLANTING SCHEDULE

ZONE	SPECIES	COMMON NAME	PLANTING ELEVATION NAVD 88 DATUM	SIZE	SPACING	NORTH PARCEL # UNITS	SOUTH PARCEL # UNITS	STRATUM	% COVER
A1	SPARTINA BAKERI	SAND CORDGRASS	>2.1	4" POT	3' O.C.	0	0	G	80
	SPARTINA PATENS	SALTMEADOW CORDGRASS	1.6 TO 2.1	4" POT	3' O.C.	0	0	G	40
A	DISTICHLIS SPICATA	SALT GRASS	1.6 T 2.1	4" POT	3' O.C.	0	0	G	40
В	PASPALUM VAGINATUM	SEASHORE PASPALUM	1.1 TO 1.6	4" POT	3' O.C.	0	0	G	40
0	JUNCUS ROEMERIANUS	BLACK NEEDLE RUSH	-0.4 TO 1.1	4" POT	3' O.C.	0	0	G	40
С	SPARTINA ALTERNIFLORA	SALTMARSH CORDGRASS	-0.4 TO 1.1	4" POT	3' O.C.	0	0	G	40

EAST McKAY BAY HABITAT RESTORATION WETLAND CREATION AREA WC-1 PLANTING SCHEDULE

ZONE	SPECIES	COMMON NAME	PLANTING ELEVATION NAVD 88 DATUM	SIZE	SPACING	NO # UNITS	STRATUM	% COVER
WC-1	MUHLENBERGIA CAPILLARIS	MUHLY GRASS	>2.3	4" POT	3' O.C.	- 0	G	80
	SPARTINA BAKERI	SAND CORDGRASS	1.8 TO 2.3	4" POT	3' O.C.	0	G	40
WC-2	CANNA FLACCIDA	GOLDEN CANNA	1.3 T 1.8	4" POT	3' O.C.	0	G	40
	PASPALUM VAGINATUM	SEASHORE PASPALUM	0.8 TO 1.3	4" POT	3' O.C.	0	G	40
WC-3	ELEOCHARIS CELLULOSA	COASTAL SPIKERUSH	0.3 TO 0.8	4" POT	3' O.C.	. 0	G	40
WC-4	JUNCUS ROEMERIANUS	BLACK NEEDLE RUSH	< 0.3	4" POT	3' O.C.	. 0	G	80

1) PLANTS TO BE OBTAINED FROM LOCAL, LICENSED NURSERY
2) ALL PLANTS WILL BE WELL ROOTED, CONTAINER GROWN MATERIAL
3) O.C. = ON CENTER

PLANTING ELEVATION IS NAVD88 DATUM.
 PLANTS MAY BE INSTALLED IN NATURALISTIC GROUPINGS AT OWNERS DISCRETION.

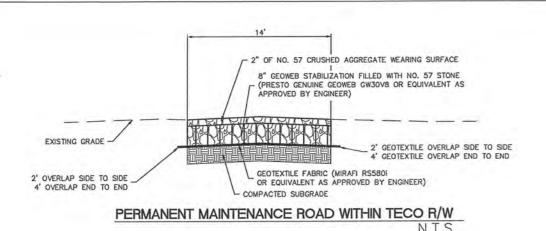
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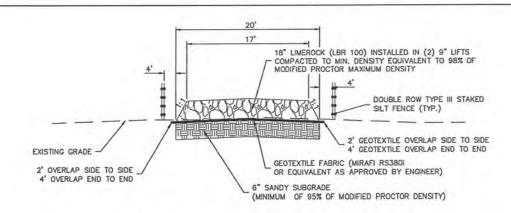
PALM RIVER RESTORATION (W367) EAST Mc KAY BAY STORMWATER AND HABITAT

RESTORATION SITES SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

PLANTING PLAN DETAILS

			JOBNO.	SHEET NO.
			5044-005-004	
			DATE	
			12/22/2010	25
			SCALE	
			AS SHOWN	90% PLAN: 11/08/2013
DATE	DESCRIPTION	APPOBY		11/08/2013





TEMPORARY HAUL ROAD WITHIN TECO R/W

6" GEOWEB STABILIZATION (PRESTO GENUINE GEOWEB GW30V6 OR EQUIVALENT AS APPROVED BY ENGINEER) SEE PLANS AND DETAILS FOR FILL MATERIAL TO BE USED IN GEOWEB CELLS (CONCRETE OR FDOT SIZE NO. 2 STONE) GEOTEXTILE FABRIC (MIRAFI RS580)
OR EQUIVALENT AS APPROVED BY ENGINEER) COMPACTED SUBGRADE

TYPICAL GEOWEB WEIR SECTION

4921 Memorial Highway

Tampa, Florida 33634 Phone 813 880-8881

Fax 813 880-8882

STANDARD DETAILS FOR ROADWAY RESTORATION FOR A PERPENDICULAR UTILITY CROSSING OVERLAYED PAVEMENT AREA (100' OR 200') SEE BELOW SURFACE REPLACEMENT (SAW CUT) - PROPOSED ASPHALT RESTORATION OVERLAY CENTERED ON TRENCH 2T (12" MIN.) 35 MPH 100 FEET PROPOSED OR LESS LIMEROCK BASE 35 MPH 200 FEET TOP OF TRENCH WIDTH BACKFILL PROCEDURE THE BACKFILL AND BEDDING MATERIAL SHALL BE OF THE A-1, A-2, A-3 OR A-2-4 CLASSIFICATION AS PER AASHTO, UNLESS W=2D (MAX.) OTHERWISE APPROVED BY THE COUNTY ENGINEER. THE BACKFILL SHALL BE COMPACTED IN 12" LAYERS WITH MECHANICAL TAMPERS TO THE FULL WIDTH OF THE TRENCH AND UP TO THE BOTTOM OF THE ROADWAY BASE, PARTICULAR ATTENTION MUST BE NOT TO SCALE GIVEN TO THE ADEQUATE COMPACTION OF THE FILL BENEATH THE HAUNCHES OF THE PIPE. THE BACKFILL SHALL BE COMPACTED TO 98% MAYIMUM DENSITY AS DETERMINED BY AASHTON T-180-57, ONE PAVEMENT and BASE REPLACEMENT DENSITY TEST SHALL BE TAKEN AT THE SPRING LINE OF THE PIPE, AT BASE, INSTALLED TO A THICKNESS OF TWO TIMES THE THICKNESS OF THE EXISTING BASE OR 12" WHICHEVER IS GREATER, SHALL BE INSTALLED IN 6" LIFTS. THE BASE SHALL BE COMPACTED TO 98% THE MAXIMUM DENSITY AS DETERMINED BY ANSHTO T—180—57. A MINIMUM OF TWO DENSITY TESTS PER LIFT IS REQUIRED. NINE (9) INCHES OF SUPERPAVE ASPHALL INSTALLED IN THREE (3) INCH LIFTS MAY BE SUBSTITUTED. THE SURFACE COURSE SHALL BE F.D.O.T, SUPERPAVE AC WITH A THICKNESS EQUAL TO THE EXISTING OR 1—3/4", WHICHEVER IS GREATER. PAVEMENT JOINTS SHALL BE MECHANICALLY SAWED. THE PATCH AREA SHALL BE A SMOOTH PLANE SUCH THAT A STRAIGHT EDGE PLACED ACROSS THE PATH, PARALLEL TO TRAFFIC FLOW AND EXTENDING TO UNDISTURBED PAVEMENT SHALL SHOW NO MORE THAN 1/4" IRREGULARITES SHALL BE CORRECTED IN SUBSTANTIAL COMPLIANCE WITH F.D.O.T. SPECS. THE TRENCH SHALL BE OVERLAYED WITH 1" OF SUPERPAVE ASPHALT A MINIMUM OF 100 FEET CENTERED ON THE TRENCH FOR ROADWAYS WITH 35 MPH OR LESS SPEED LIMIT OR 200 FEET FOR ROADWAYS WITH SPEED LIMITS GREATER THAN 35 MPH. ONE FOOT ABOVE THE CROWN OF THE PIPE, AND EVERY FOOT VERTICALLY THEREAFTER, A MINIMUM OF TWO COMPLETE SETS OF BACKFILL DENSITY TESTS ARE REQUIRED. FLOWABLE FILL IN ACCORDANCE WITH SECTION 121 OF THE F.D.O.T. STANDARD SPECIFICATIONS MAY BE SUBSTITUTED. IF WELL POINTS ARE USED TO PROVIDE A DRY TRENCH FOR LAYING THE UTILITY, THEY SHALL REMAIN IN OPERATION UNTIL THE BACKFILL IS COMPLETE AND TESTED.

HILLSBOROUGH COUNTY

HC-UAG MOD-2013.DOC

K-2

DISTURBED ROADWAYS CONSTRUCTED OF FULL DEPTH ASPHALT SHALL BE REPLACED IN KIND.

ROADWAY RESTORATION

FIGURE 1

DAVID SAMILLE LICENSON AL STATE OF STAT

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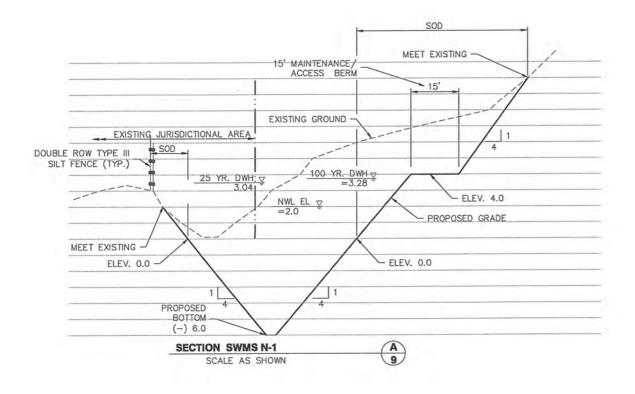
PALM RIVER RESTORATION (W367) EAST Mc KAY BAY STORMWATER AND HABITAT

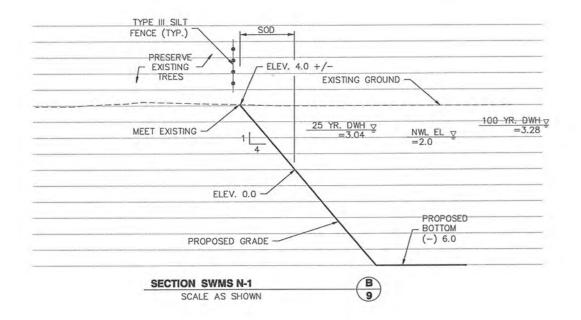
RESTORATION SITES

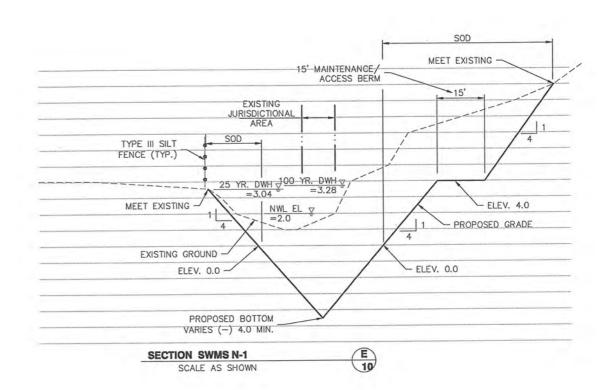
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

TYPICAL SECTION

			JOB NO.	SHEET NO.
			5044-005-004	
			DATE	
			12/22/2010	26
1			SCALE	
			AS SHOWN	90% PLANS 11/08/2013
DATE	CESCRIPTION	APPDW		11/08/2013







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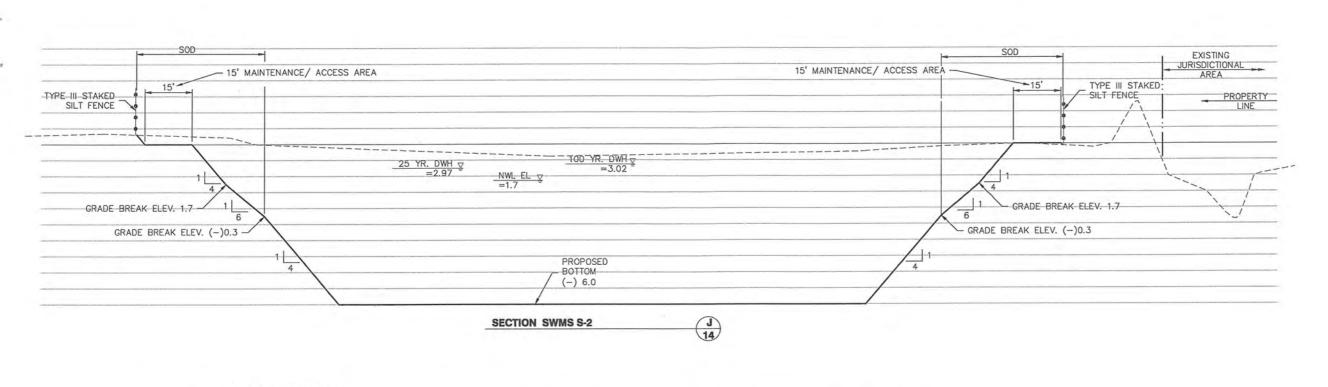
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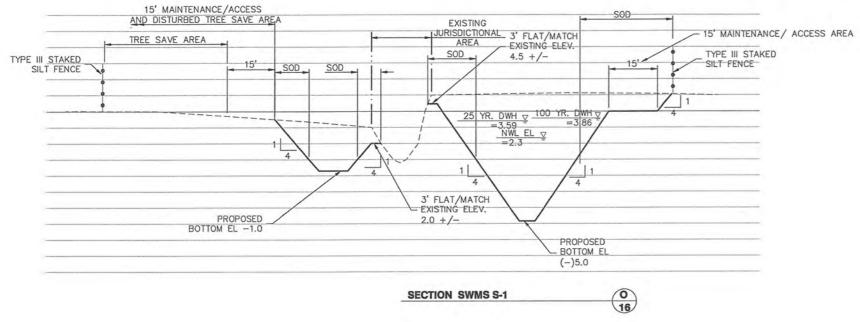
4921 Memorial Highway One Memorial Center, Suite 300 Tampa, Florida 33634 Phone 813 880-8881 Fax 813 880-8882 **PALM RIVER RESTORATION (W367)** EAST Mc KAY BAY STORMWATER AND HABITAT RESTORATION SITES

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

POND CROSS SECTIONS (1)

				JOB NO.	SHEET NO.
				5044-005-004	
				DATE	
			_		27
				12/22/2010	
			-	SCALE	
				AS SHOWN	90% PLANS
NO.	DATE	DESCRIPTION	APPOBY		11/08/2013





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THIS PROJECT IS IN NAVD 88 DATUM NVGD 29 = 0 , NAVD 88 = (-) 0.883

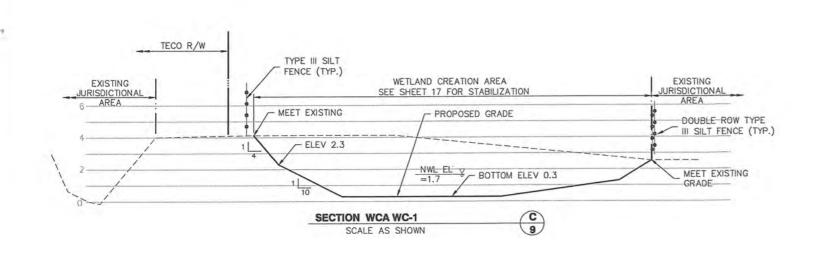
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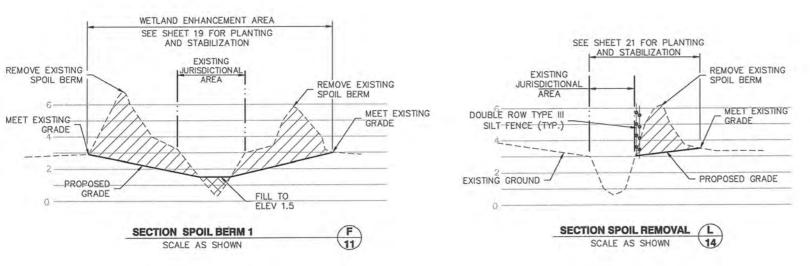
4921 Memorial Highway One Memorial Center, Suite 300 Tampa, Florida 33634 Phone 813 880-8881 **PALM RIVER RESTORATION (W367)** EAST Mc KAY BAY STORMWATER AND HABITAT RESTORATION SITES Fax 813 880-8882 www.kingengineering.com Engineering License #2610 FOR

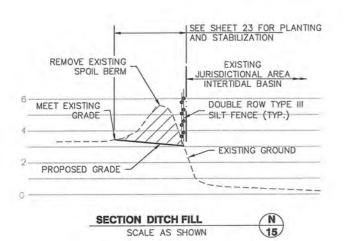
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

POND CROSS SECTIONS (2)

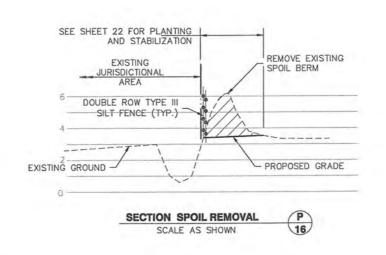
			JOB NO.	SHEET NO.
			5044-005-004	
			DATE	00
			12/22/2010	28
			SCALE	
			AS SHOWN	90% PLANS 11/08/2013
DATE	DESCRIPTION	APPDBY		11/08/2013

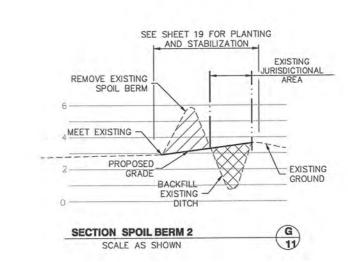


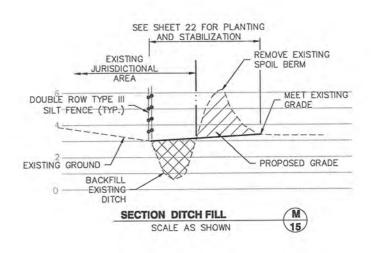




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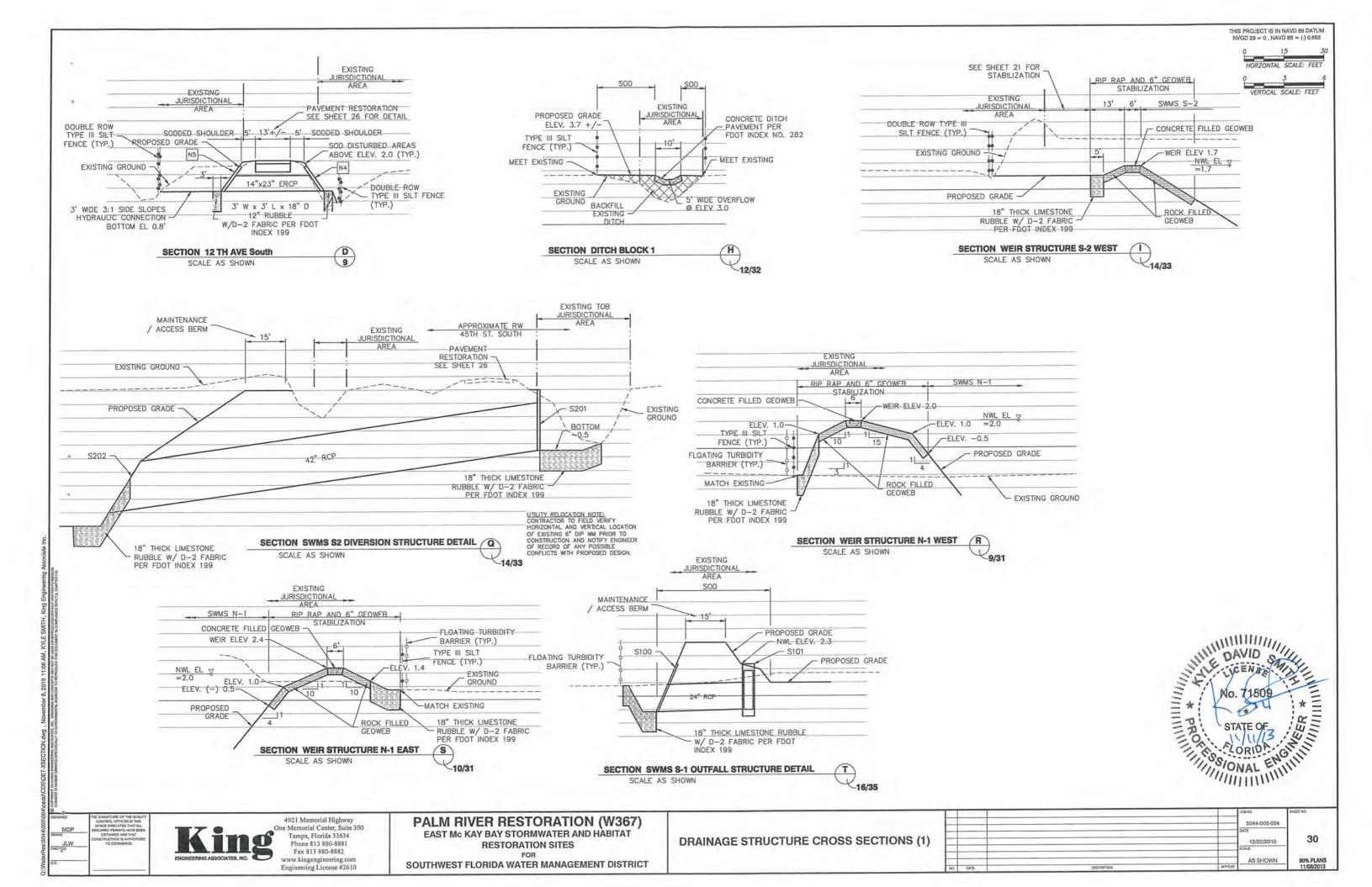
VERTICAL SCALE: FEET

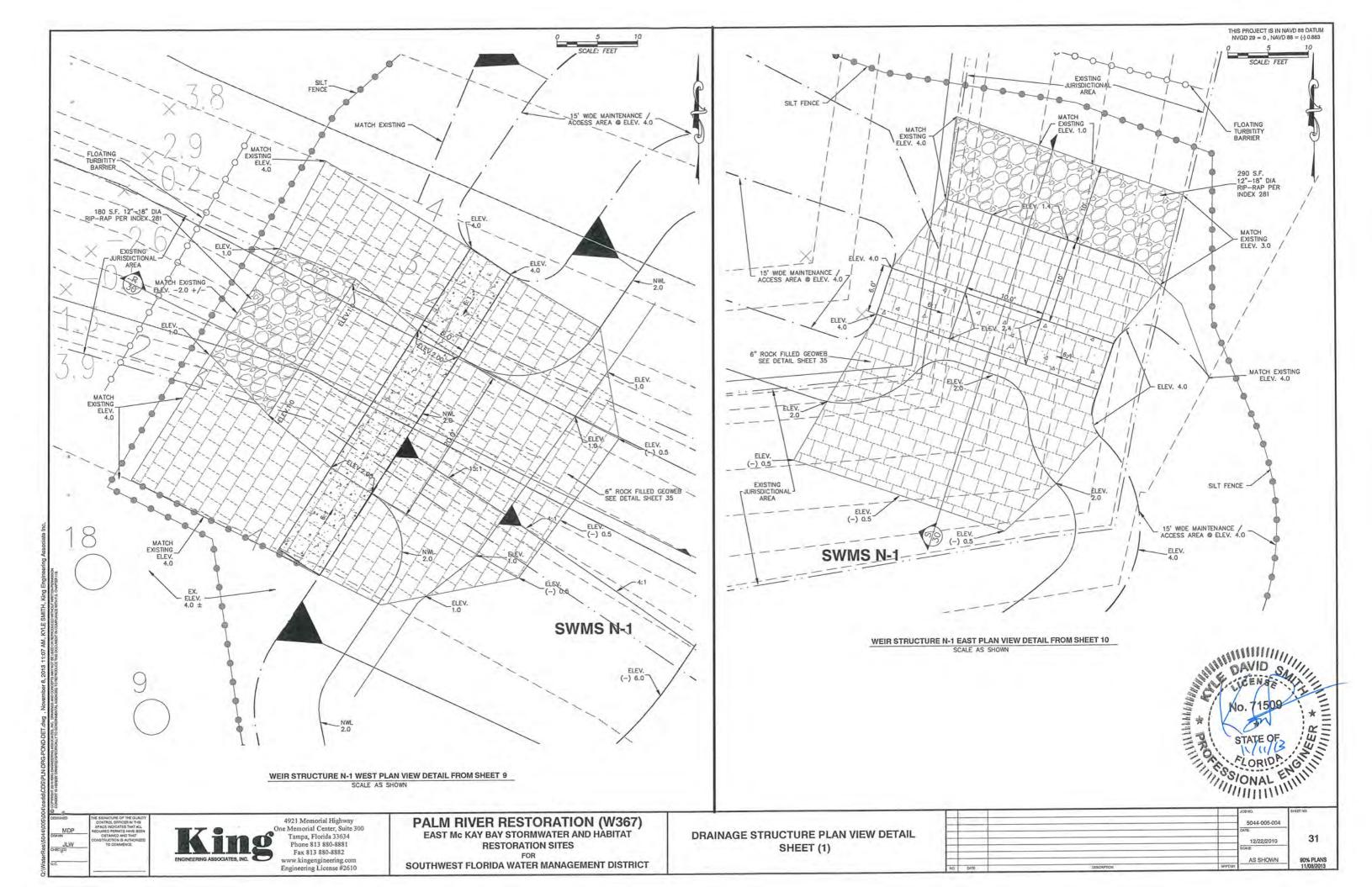
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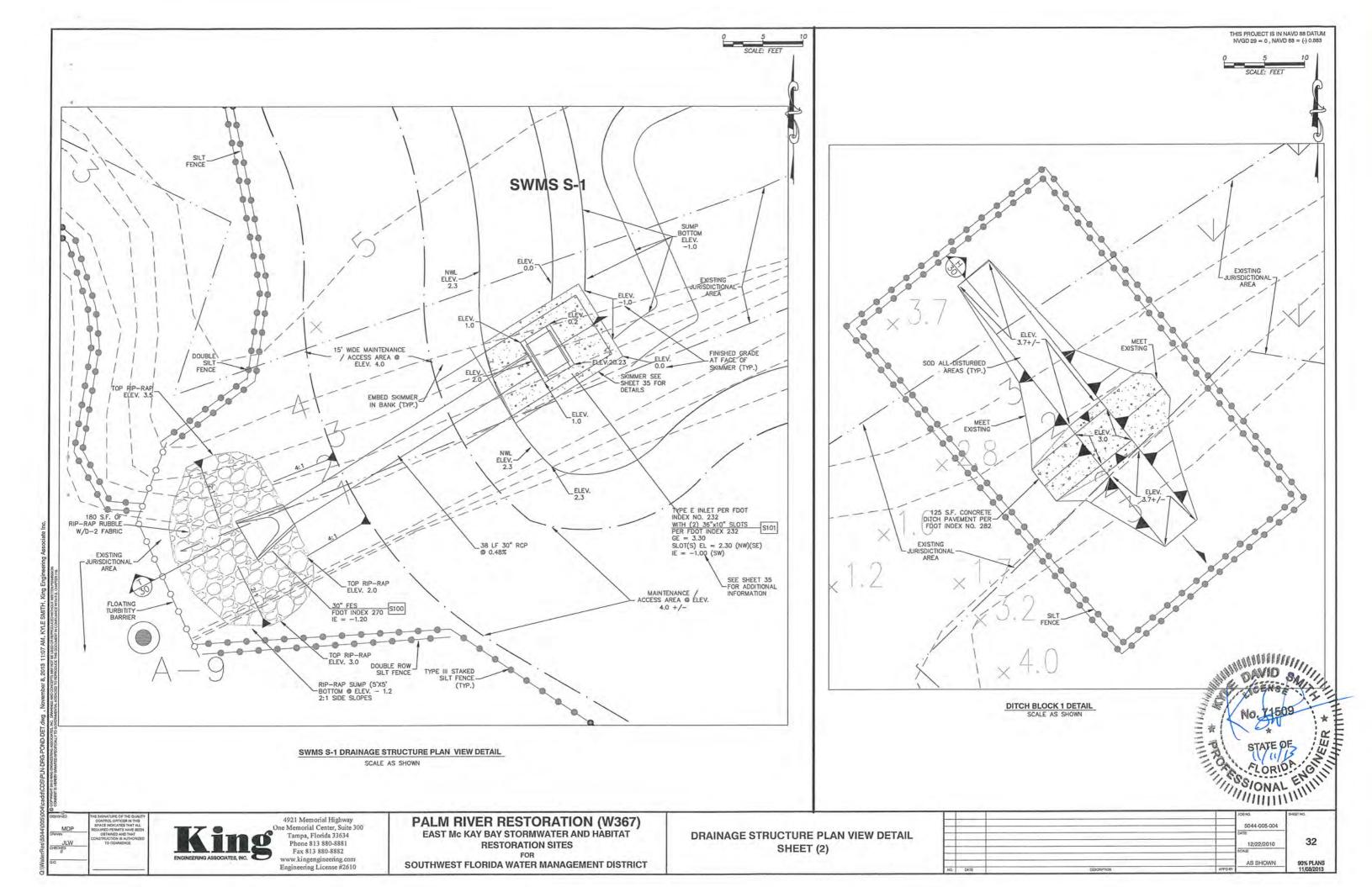
PALM RIVER RESTORATION (W367) EAST Mc KAY BAY STORMWATER AND HABITAT

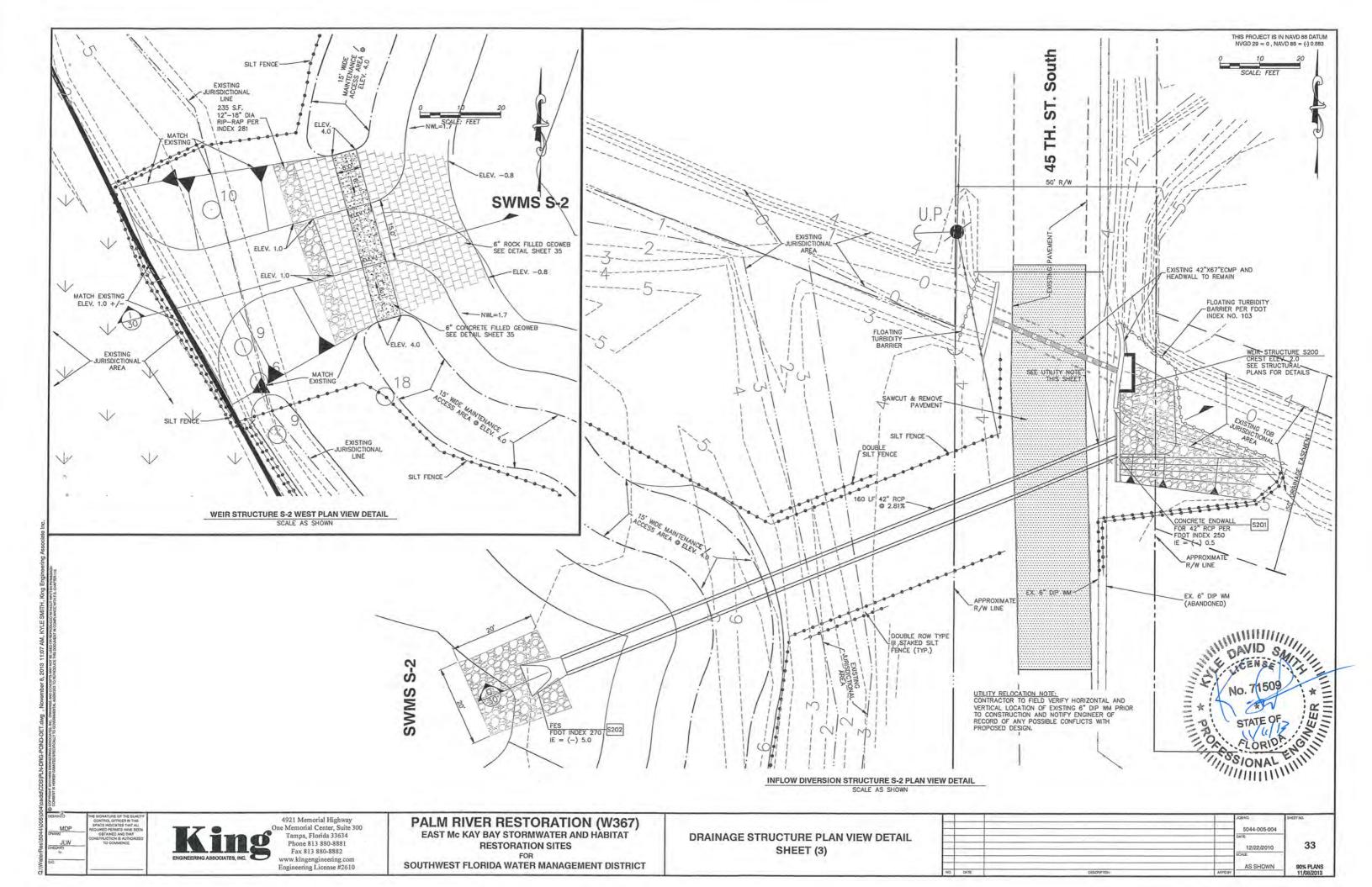
RESTORATION SITES SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT **GRADING CROSS SECTIONS (1)**

			J08N0.	SHEET NO.
			5044-005-004	
			DATE	1
			12/22/2010	29
			SCALE	
			AS SHOWN	90% PLANS
IO. DATE	DESCRIPTION	APPOBY		11/08/2013









SHEET PILE INSTALLATION NOTES

SHEET PILING SUPPLIED FOR THE PROJECT SHALL MEET OR EXCEED ALL REQUIRED PHYSICAL CHARACTERISTICS AS DEFINED BELOW:

1.1.2.1 SHEET PILE MATERIAL

ALL SHEET PILING SHALL BE MANUFACTURED ENTIRELY FROM A RIGID, HIGH IMPACT, UV-INHIBITED, WEATHERABLE VINYL COMPOUND, ALL EXPOSED SURFACES OF THE SHEET PILING SHALL BE UV RESISTANT, AND COMPRISED OF VIRGIN MATERIAL WITH A MINIMUM ASTM D4216 CELL CLASSIFICATION OF 1-42443-33 TO ENSURE RELIABLE PERFORMANCE AND COLOR CONSISTENCY. IF MONO-EXTRUSION TECHNOLOGY IS USED, THE ENTIRE SHEET PILE MUST BE COMPRISED OF VIRGIN MATERIAL WITH A MINIMUM ASTM D4216 CELL CLASSIFICATION OF

1.1.2.2 SECTION MODULUS THE SECTION MODULUS OF THE SHEET PILING SHALL BE NO LESS THAN 19.5 IN3 PER LINEAR FOOT OF WALL.

1.1.2.3 MOMENT OF INERTIA THE MOMENT OF INERTIA OF THE SHEET PILING SHALL BE NO LESS THAN 78 IN4 PER LINEAR FOOT OF WALL.

1.1.2.4 THICKNESS THE SHEET PILING MUST HAVE A MINIMUM THICKNESS OF 0.370 INCHES.

THE SHEET PILING MUST HAVE A MAXIMUM SECTION DEPTH OF B INCHES TO PREVENT WEB BUCKLING.

1.1.2.6 COVERAGE & INTERLOCKS THE SHEET PILING MUST HAVE A MINIMUM WIDTH OF 12 INCHES PER SHEET.

1.1.2.7 LOCKING SYSTEM ALL MALE INTERLOCKS MUST INCORPORATE I-BEAM LOCK REINFORCEMENT TO RESIST LOCK SEPARATION AND DECREASE SEEPAGE.

- 1.1.2.8 SURFACE FINISH/APPEARANCE THE SHEET PILING MUST BE GRAY IN COLOR. COLOR SAMPLES TO BE APPROVED BY THE OWNER.
- 1.2.1.1 INSTALLATION ALL SHEET PILING SHALL BE INSTALLED WITH A MINIMUM OF 8' EMBEDMENT. THE MAXIMUM AMOUNT OF DIVERGENCE BOTH HORIZONTALLY AND VERTICALLY SHALL BE (±)0.2FT FROM A STRING LINE HELD AT EACH END OF THE WALL AND PULLED TAUT.

CAST-IN-PLACE CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 318 (CURRENT)
- DESIGN COMPRESSIVE STRENGTH OF CONCRETE SHALL BE A MINIMUM OF 4,000 PSI AT 28 DAYS AS MEASURED BY TESTING CYLINDER SPECIMENS PER ASTM C-39 (U.O.N.). CONTRACTOR SHALL SUBMIT CYLINDER TESTS TO ENGINEER OF RECORD FOR REVIEW. A MINIMUM OF (4) TESTS SHALL BE PROVIDED BY A LICENSED TESTING LABORATORY.
- REINFORCING BARS: ASTM A 615 GRADE 60 DEFORMED NEW BILLET STEEL OF DOMESTIC MANUFACTURE, FABRICATED IN ACCORDANCE WITH THE C.R.S.I. MANUAL OF STANDARD PRACTICE.
- PROVIDE PLASTIC TIPPED BAR SUPPORTS OF ADEQUATE STRENGTH AND SPACING TO SUPPORT THE WEIGHT OF REINFORCING BARS AND THE WEIGHT OF WORKERS. PLACE FIRST SUPPORT NO FARTHER THAN 12" FROM THE ENDS OF REINFORCING BARS
- FOLLOW ACI 318 (CURRENT) AND ACI 315 (CURRENT) FOR DETAILS OF AND SUPPORTS FOR REINFORCEMENT.
- REINFORCING BARS ARE CONTINUOUS (U.O.N.). WHERE NECESSARY, TOP BARS SHALL BE SPLICED 40 BAR DIAMETERS AT CENTER OF SPAN. BOTTOM BARS SHALL BE SPLICED 12" OVER CENTERLINE OF SUPPORT. LAP ALL DOWELS IN VERTICAL REINFORCEMENT, 48 BAR DIAMETERS. SPLICES AND LAPS OTHER THAN THOSE INDICATED WILL NOT BE PERMITTED WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- SPLICE REINFORCING ONLY WHERE SHOWN ON THE DRAWINGS. WHERE CONTINUOUS REINFORCING IS SPECIFIED, SUCH REINFORCING MAY BE SPLICED IN ACCORDANCE WITH CRSI PROVISIONS.
- CORNER BARS IN WALLS, BEAMS AND TIE BEAMS ARE THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCING STEEL.
- ALL HOOKS ON VERTICAL STIRRUP LEGS MUST BE PLACED AROUND AT LEAST ONE LONGITUDINAL REINFORCING BAR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONCRETE FORMWORK, BRACING, AND SHORING.
- 11. THE SLUMP JUST PRIOR TO PLACING SHALL BE 5" (±) 1" FOR ALL CONCRETE

GENERAL CONSTRUCTION NOTES:

- 1. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF THE QUANTITIES OF WORK REQUIRED TO COMPLETE THE CONSTRUCTION SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO 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 OWNER REPRESENTATIVE BEFORE THE BID
- 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES OR OTHER OBJECTS PRIOR TO COMMENCING WORK AT THE SITE. ANY UTILITIES OR OTHER ITEMS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT NO COST TO THE OWNER.
- 3. 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 OWNER
- 4. 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
- 5. 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 INSTRUCTION.
- 6. ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISIONS. AND/OR LATEST EDITION UNLESS OTHERWISE NOTED.
- 7. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- 8. 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.
- 9. ALL DISTURBED AREAS WITH THE PROJECT NOT DESIGNATED FOR IMPROVEMENTS ARE TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
- 10. PEDESTRIAN BRIDGE RECORD DRAWINGS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A REGISTERED LAND SURVEYOR TO RECORD INFORMATION ON A SET OF THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. FOUR SETS OF THE FINAL RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER.
- 11. ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- 12. CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS AND WATERWAYS
- 13. BEST MANAGEMENT PRACTICES FOR EROSION AND TURBIDITY CONTROL, INCLUDING BUT NOT LIMITED TO THE USE OF STAKED HAY BALES, TURRIDITY BARRIERS, AND SILT SCREENS, SHALL BE USED AND MAINTAINED AS NECESSARY AT ALL TIMES DURING THE PROJECT. TURBIDITY CONTROL DEVICES SHALL BE MAINTAINED AND SHALL REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION TO ENSURE THAT TURBIDITY LEVELS OUTSIDE THE CONSTRUCTION AREA DO NOT EXCEED 29 NTUS ABOVE BACKGROUND. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT TURRIDITY CONTROL DEVICES ARE INSPECTED DAILY AND MAINTAINED IN GOOD WORKING ORDER SO THAT THERE ARE NO VIOLATIONS OF STATE WATER QUALITY STANDARDS OUTSIDE OF THE
- 14. REFERENCE IS MADE TO THE GEOTECH REPORT PREPARED BY ANDREYEV ENGINEERING, INC. DATED JUNE 17, 2013

SUBGRADE FILL NOTES

- 1. SUB GRADE SHALL BE WELL-DRAINED AND OF UNIFORM BEARING STRENGTH.
- 2. SUB GRADE SHALL BE COMPACTED TO MINIMUM 98% PROCTOR DENSITY (ASTM D1557)
- 3. CONTRACTOR SHALL SUBMIT SOIL DENSITY TESTS TO ENGINEER OF RECORD FOR REVIEW PRIOR TO CONSTRUCTION. A MINIMUM OF (4) DENSITY TESTS SHALL BE PROVIDED (AT RANDOM) BY A LICENSED TESTING LABORATORY.
- 4. SUBGRADE FILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, AND SHALL CONSIST OF SAND FILL WITH BETWEEN 3 TO 12 PERCENT BY WEIGHT OF MATERIAL PASSING THE U.S. STANDARD No. 200 SIEVE SIZE.

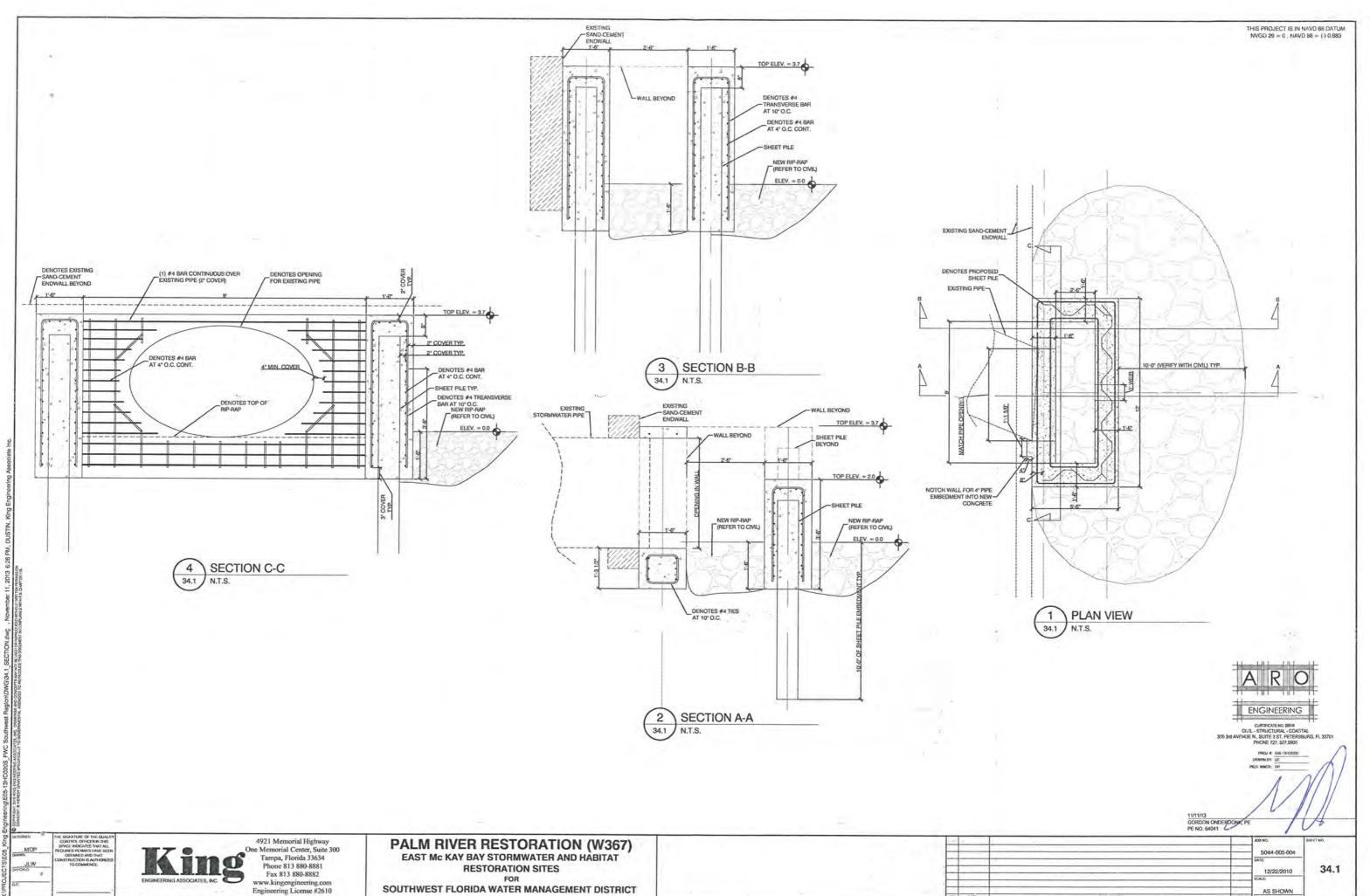


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PALM RIVER RESTORATION (W367) EAST Mc KAY BAY STORMWATER AND HABITAT RESTORATION SITES

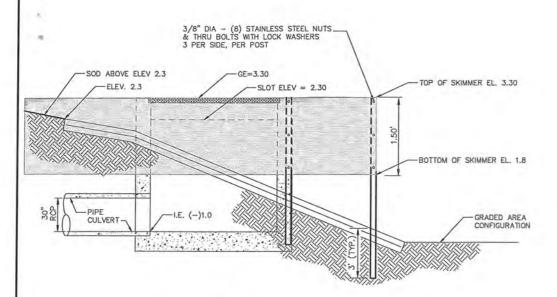
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

5044-005-004 34 12/22/2010 AS SHOWN ********

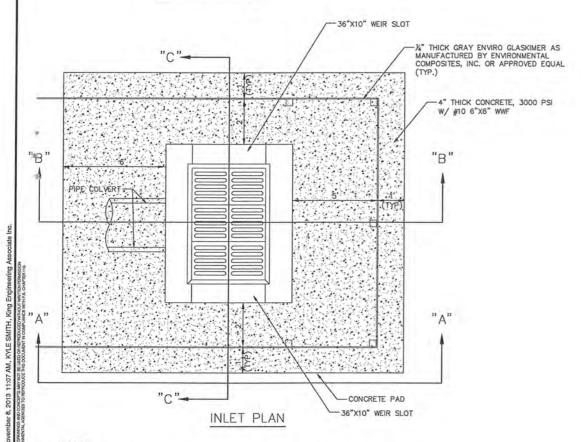


SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

AS SHOWN

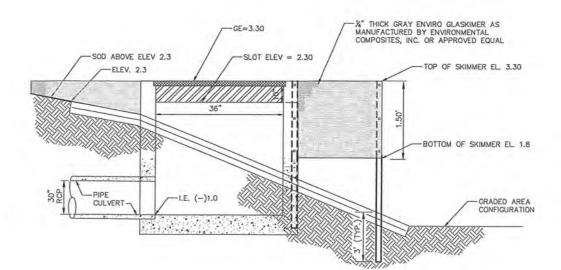


SECTION "A-A"

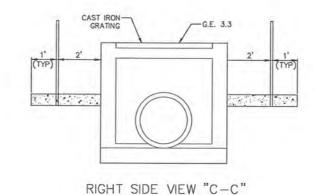


ALL STRUCTURE DIMENSIONS ARE FOR PRE-CAST TYPE CONSTRUCTION. SEE FDOT INDEX 200, 201 AND 232 FOR ADDITIONAL DETAILS.

> CONTROL STRUCTURES STR#S100 FDOT TYPE E DBI SCALE AS SHOWN



SECTION "B-B"



4921 Memorial Highway One Memorial Center, Suite 300 Tampa, Florida 33634 Phone 813 880-8881

PALM RIVER RESTORATION (W367) EAST Mc KAY BAY STORMWATER AND HABITAT

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

DRAINAGE STRUCTURE S100 DETAIL SHEET

L					JOBNO.	SHEET NO.
-	-				5044-005-004 DATE 12/22/2010 SCALE AS SHOWN	35 90% PLANS 11/08/2013
-						
-						
	NO.	DATE	DESCRIPTION	APPOBY		

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