

Florida Department of Environmental Protection

Southwest District Office 13051 North Telecom Parkway Temple Terrace, FL 33637-0926 Rick Scott Governor

Carlos Lopez-Cantera Lt. Governor

> Ryan E. Matthews Interim Secretary

March 6, 2017

Southwest Florida Water Management District c/o Mark Hammond, Resource Management Director 7601 US Highway 301 North Tampa, FL, 33637-6759 mark.hammond@watermatters.org

File No.: 29-0351224-001-EG, Hillsborough County

Dear Mr. Hammond:

On February 7, 2017, we received your notice of intent to use a General Permit (GP), pursuant to Rule 62-330.485, Florida Administrative Code (F.A.C.). The major objectives of this restoration project are to restore and create wetland habitat from the open water pit and soil complex adjacent to Stallion Hammock, restore the western branch of Stallion Hammock (riverine creation), and improve the eastern tributary by re-routing flow through the currently bypassed lower natural wetland strand. The net result will be increased and improved wetland habitat, increased habitat for wading birds and other wildlife, and improved water quality. The natural wetland systems upstream and downstream of the project area will not be disturbed. The project is located east of Balm-Boyette Road and north of CR 672, Balm, Section 16, Township 31 South, Range 21 East, Hillsborough County.

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 authorization; therefore, 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.

If you have any questions regarding this matter, please contact Ryan Martin via email at ryan.p.martin@dep.state.fl.us or by phone at 813-470-5944.

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),

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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.

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 258, F. S., Chapter 18-21, F.A.C. Chapter 18-20, 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. A copy of your permit application has been forwarded to the Corps for their review. The Corps will issue their authorization directly to you or contact you if additional information is needed. If you have not heard from the Corps within 30 days from the date your application was received at the local FDEP Office, contact the Corps for status and further information. **Failure to obtain Corps authorization prior to construction could subject you to federal enforcement action by that agency.**

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

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action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice.

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 Rule 28-106.201, 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, any email address, any facsimile number, 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. 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 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. Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within 21 days of receipt of such notice, regardless of the date of publication. The 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.

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 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 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.

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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 the order is filed with the Clerk of the Department.

Judicial Review

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 Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 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 this action is filed with the Clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Sincerely,

Mark Langford

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.

Project Drawings (24 pages)

cc:

U.S. Army Corps of Engineers, tampareg@usace.army.mil

DEP Southwest, SW ERP@dep.state.fl.us

DEP Southwest, SWD_Clerical@dep.state.fl.us

Ryan P. Martin, P.E., DEP SWD, ryan.p.martin@dep.state.fl.us

Thomas F. Ries, Scheda Ecological Associates, Inc., tries@scheda.com

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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 6, 2017</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.

March 6, 2017

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.
- (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 by the Department through the Ecosystem Management and Restoration Trust Fund pursuant to Section 403.1651, F.S., or the Water Resource Restoration and Preservation Act pursuant to Section 403.0615, F.S.
- (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.

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 in 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

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subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

- (2) This 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.
- (3) This 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.
- (7) This permit shall not be transferred to a third party except pursuant to Rule 62-330.340, F.A.C. The permittee transferring 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 permit.
- (9) The permittee shall maintain any permitted project or activity in accordance with the plans submitted to the Agency and authorized in this general permit.
- (10) A permitee's right to conduct a specific activity under this 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 www.dep.state.fl.us/water/wetlands/docs/erp/FLErosionSedimentManual_6_07.pdf, 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 www.dep.state.fl.us/water/nonpoint/docs/erosion/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 4 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 within 72 hours after the work commences; and
- (d) Areas disturbed for access shall be restored to natural grades immediately after the maintenance or repair is completed.

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(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 a 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;
- (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.; or
- (16) If any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work 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 notification shall be provided 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 shutdown 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 on-site 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, 373.414(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.

ENGINEERING PLANS FOR:

BALM BOYETTE - STALLION HAMMOCK SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

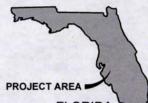
HABITAT RESTORATION HILLSBOROUGH COUNTY, FLORIDA

AMEC FOSTER WHEELER PROJECT NUMBER: 600308.9

FLORIDA DEPARTMENT OF **ENVIRONMENTAL PROTECTION**

FEB 07 2017

SOUTHWEST DISTRICT TEMPLE TERRACE







VICINITY MAP

HILLSBOROUGH COUNTY, FLORIDA SECTIONS 16, 17 and 21, TOWNSHIP 31 S, RANGE 21 E





PROJECT PARTNERS: FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION & HILLSBOROUGH COUNTY

PREPARED FOR:

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT 7601 US HIGHWAY 301 NORTH TAMPA, FLORIDA 33637 PHONE: 813.985.7481

DATE: 1 February 2017

PLANS PREPARED BY:

amec foster wheeler



Amec Foster Wheeler Environment & Infrastructure, Inc.

1101 Channelside Dr., Suite 200, Tampa, FL 33602 Phone: 1.813.289.0750 Fax: 1.813.289.5474 www.amecfw.com CA-5392

AND



Scheda Ecological Associates, Inc. 5892 E. Fowler Ave. Tampa, Florida 33617 Phone: 813.989.9600 Fax: 813.989.9670

INDEX OF DRAWINGS Sheet Title Sheet Number COVER SHEET GENERAL NOTES DRAINAGE MAP GRADING AND DRAINAGE PLAN KEY SHEET GRADING SURFACES GRADING PLAN WETLAND AND STREAM RESTORATION GRADING DETAIL WETLAND AND STREAM RESTORATION GRADING DETAIL WETLAND AND STREAM RESTORATION PLANTING PLAN PLANTING QUANTITIE GRADING AND PLANTING CROSS SECTIONS GRADING AND PLANTING CROSS SECTIONS GRADING AND PLANTING CROSS SECTIONS OFFSITE CONNECTIONS WETLAND AND STREAM RESTORATION TEMPORARY BYPASS SYSTEM KEY SHEET TEMPORARY BYPASS STRUCTURE DETAILS TEMPORARY BYPASS STRUCTURE DETAILS CONSTRUCTION PHASE DEWATERING PLAN STREAM RESTORATION DETAILS CONSTRUCTION SURFACE WATER PLAN CONSTRUCTION SURFACE WATER PLAN DETAILS

PROJECT LOCATION

Benchmark data is based upon North American Datum of 1988 (NAVD 88)

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



GENERAL CONSTRUCTION NOTES

- LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHAIM ACCORDING TO INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR
- THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, OR BELOW GROUND, THAT WAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTR
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RECORE FABILIAR WITH THE PERBIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL ABENCIES. THE CONTRACTOR SHALL GRIAIN ALL RECESSARY PERBITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION.
- ALL SPECIFICATIONS AND DOCUMENTS REFERRED TO SHALL BE OF LATEST REVISIONS AND/OR LATEST EDITION.
- 6. ALL WORK PERFORMED SHALL COMPLY WITH THE LATEST STANDARDS, DETAILS, REGULATIONS, AND GROINMESS OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK. THESE AGENCIES INCLUDE, BUT AME NOT LIMITED TO, COUNTY HEALT IN DEPARTMENT, FIGHED DEPARTMENT OF ENVIRONMENTAL PROTECTION, SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, U.S. ARMY CORPS OF ENGINEERS AND HILLSGORDORD COUNTY.
- CONTRACTOR SHALL SUBBLIT FOR REVIEW TO THE OWNER'S EMBINEER SHOP DRAWINGS ON ALL
 PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO GOTAIN APPROVAL
 BEFORE INSTALLATION MY RESULT IN REWOUL AND REPLACEMENT AL COMPRACTOR'S EXPRESS.
 EMBINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY
 FOR PERFORMANCE OF THE TIPM.
- 8. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEIND PERFORMED ON SITE BY OTHER CONTRACTORS, UTILITY COMPANIES, AND BALM-BOYETTE PARK MANAGERS. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE MECESSARY WITH OWNER, OTHER CONTRACTOR'S AND UTILITY COMPANIES.
- BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AND COMPACTED TO A FIRMNESS EQUAL TO THAT
 OF THE SOIL ADJACENT TO THE BACKFILL AREAS IN 6" LAYERS. IN AREAS TO BE CONCRETE PAYED,
 BACKFILL SHALL BE COMMONTED TO TOOK MAXIMAD MERSHITY AS DETERMINED BY ASSITTED 1"-99.
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 P.S.I. IN 28 DAYS, UNLESS OTHERWISE MOTED, SPECIFIED OR REQUIRED.
- 11. REINFORCING SHALL BE BILLET STEEL BARS CONFORMING TO ASTM A615 GRADE 40 OR BETTER.
- 12. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SMALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK UNLESS SPECIFICALLY EXEMPTED BY THE PLANS, ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS (AND/OR HAND AUGERS) PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.
- 14. OWNER SPECIFIC SPECIFICATIONS TO BE PROVIDED TO CONTRACTOR DURING BIDDING.

- REGULATIONS, SPECIFICATIONS, AND QUIDELINES.

 16. THE CONTRACTOR IS RESPONSIBLE FOR THE ACQUISITION AND PROVISION OF ALL EQUIPMENT, TOOLS, SUPPLIES, MATERIALS, TRANSPORTATION, LARGH, AND SUPPRISTION TO BE USED ON THIS PROJECT.

 17. THE ENGINEER RESERVES THE RIGHT TO INSPECT, AT ANY TIME, THE CONTRACTOR'S CERTIFICATIONS, DOCUMENTATIONS, PROCEDURES, EQUIPMENT, AND ISCANDIASS, INSPECTION DOES NOT RELEVE THE CONTRACTOR OF ANY OBLIGATIONS OR RESPONSIBILITIES AND ROOSE IT TRANSFER ANY LIABILITY TO THE ENGINEER.

 18. THE CONTRACTOR WILL BE RESPONSIBLE FOR ACTIONS AND MISCALCULATIONS OF HIS OR HER PERSONNEL WHILE ON COUNTY-OWNED, LEASED, OR MANAGED PROPERTY OR EQUIPMENT CAUSED BY THE CONTRACTOR'S EMPLOYEES OR SUCCESSION, BUTCHES, MATTER VERSIFIED ON EXISTING MOMENTS, AND PROPERTY OR EQUIPMENT CAUSED BY THE CONTRACTOR'S EMPLOYEES OR SUCCESSION, BUTCHES, MATTER VERSIFIED, AUTOMOMENTS, HELDING AND PROPERTY OR EQUIPMENT CAUSED BY THE PROGRAMMENT OF THE PROCEDURES AND PROPERTY OR EQUIPMENT.

 19. THE CONTRACTOR SHALL DE RESPONSIBLE FOR THE PREVENTION OF THE POLLUTION OF MATURAL AREAS BY FREE, OILS, CHEMICAL HOT PROVIDE ACCESS TO PARTIES OTHER THAN THOSE PERFORMING ACTIVITIES ASSOCIATED WITH THIS PROJECT.

- 21. THE CONTRACTOR SHALL REMOVE FROM THE AREA ALL EXTRAGEOUS MATERIALS, EQUIPMENT, AND LITTER ASSOCIATED WITH THEIR CONSTRUCTION ACTIVITIES BEFORE FINAL COMPLETION.
 22. THE CONTRACTOR MUST STOP WORK AND NOTIFY THE ORNER IF ANY HISTORICAL ARTIFACT IS DISCOVERED.
- 23. CONTRACTOR TO SUPPLY DEWATERING PLAN TO THE SWEWN AND FDEP REPRESENTATIVES.

SAFETY NOTES

DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, THE CONTRACTOR SHALL COMPLY WITH REQULATIONS, THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF ITS PERSONNEL. LABOR SAFETY REGULATIONS SHALL BE AS SET FORTH BY COSA IN THE FEDERAL REGISTER OF THE DEPARTMENT OF LABOR.

THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE STATE OF FLORIDA MANUAL ON FFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIDMANY CONSTRUCTION, MAINTENANCE AND UTILITY AUTIONS SHALL BE FOLLOWED. IN THE DESIGN APPLICATION, INSTALLALITON, MAINTENANCE, AND REMOVAL ALL TRAFFIC CONTROL DEVICES, WANNING DEVICES, AND BAPRIERS RECESSARY TO PROTECT THE PUBLIC WORKERS FROM MAZADOS WITHIN THE PROJECT LIMITS.

ALL TRAFFIC CONTROL MARKINGS, FLAGGERS, AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRAMSPORTATION FEDERAL HIGHWAY ADMINISTRATION.

4. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REQULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OF ENGINEER WILL INSPECT AND/ON ENFORCE SAFETY REQULATIONS.

5. A CREW SUPERVISOR MUST BE ON-SITE WHENEVER WORK IS PERFORMED. THIS SUPERVISOR IS RESPONSIBLE FOR CREW SAFETY AND ALL ACTIVITIES WHILE ON SITE.

CLEARING AND EROSION CONTROL NOTES

- CONTRACTOR SHALL CILIAR AND GRAB WILL BE SEEDED, MILCORD, THE STIE RECESSARY FOR CONSTRUCTION, DISTURBED MAKEN WILL BE SEEDED, MILCORD, OF PLANTED BY ROTHER CONTRACTOR OF THE STORM OF THE STANDARD BY THE STANDARD OF THE STANDARD WITH THE STANDARD OF THE STANDARD WITH THE STANDARD WITH THE STANDARD OF DESTRUBANCE, NO MEANS SHALL BE LEFT DISTURBED OF DERMOED FOR CONCERT THAN 14 DAYS.
- ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
- 3. CONTRACTOR IS TO PROVIDE EROSION CONTROLISEDIMENTATION BARRIER (TURBIDITY BARRIER, STAKED SILT FERME OR APPROVED ALTERNATIVE) TO PREVENT SILTATION OF ADMACHT PROPERTY, STREETS, STORM SEERS, ANTERNAYS, AND EXISTING RETURNS. IN ADDITION, COMPANIENT SHALL SHEET AND ALTERNATIVE AND EXISTING RETURNS. IN ADDITION, COMPANIENT SHALL SHEET AND ALTERNATIVE STORM EXIST THE SITE. IF, IN THE OPINION OF THE EMBIRER AND, OR LOCAL AUTHORITIES, EXCESSIVE OUNTILIES OF CARMIT AND THROPOPORTED OF SITE EITHER BY MATURAL DALARMAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO RECOVER SAID EARTH TO THE SAITSACKION OF THE ROMINER AND AUTHORITIES.
- IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.
- THERE SHALL BE NO DISCHARGE (I.E. PURPING, SHEET FLOW, SHALE, DITCH, ETC.) INTO AN EXISTING LAKE SYSTEM, WETLAND, OR RIVER, WITHOUT THE USE OF SETTLING PORDS. IF THE CONTRACTOR DESIRES TO DISCHARGE MITO THE EXISTING LAKE SYSTEM OR RIVER, A SETTLING PORD PLAN MIST DE SUBMITTED AND APPROVED BY THE ENGINEER AND LOCAL REGULATORY AGENCY PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL FEATURES TO BE IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS.

STANDARD UTILITY NOTES

- CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS
 UTILITIES A MINIMUM OF THE DISPRING DAYS PRION TO EXCAVATING. THE ONLY SAFE
 AND PROPER MAY TO LOCATE EITHER MINING OR SERVICE LINES IS BY AN ON-SITE INSPECTION
 BY THE RESPICTIVE GAS PERSONNEL. THEREFORE, EXCAVATORS ARE INSTRUCTED TO TELEPHOR
 THE RESPICTIVE GAS DEPARAMY THE ORNING DAYS BEFORE ENTERING A CONSTRUCTION APER.
- . THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL MOVING AT LEAST 48 MOORS MOTICE TO THE MARIOS UTILITY COMPANIES IN ORDER TO PERMIT BY CALLING FORDING SHAPE SHAPE OF CALL CENTER OF FLORIDA, INC. AT 1-800-432-4770. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MOTIFY "SUMSHIME" FORTY-EIGHT (48) HOURS PRIGHT TO MY CLEANING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS.
- A. II IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCOMMECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVED ON GO DEWOLDSHIM ANY EXISTING STRUCTURES FROM THE SITE. ALL UTILITIES INCLUDING, BUT NOT RECESSARILY LIMITED TO, THE FOLLOWING SHOULD BE CONTRACTED BY THE CONTRACTOR:

 1. BAS
 2. TELEPHONE
 3. CABLE
 4. POMERCONTY WATER AND SEMER
 5. CITY/COUNTY/STATE TRAFFIC SIGNAL UTILITY
 (FIBER, NAPOWIRE TRAFFIC SIGNAL INTERCONNECT)
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MOTIFY THE VARIOUS UTILITIES AND TO MAKE THE RECESSARY APPRAMEMENTS FOR ANY RELOCATION'S OF THESE UTILITIES WITH THE OWNER OF THE UTILITY. HE CONTRACTOR SHALL EXERCISE CAUTION WHEN ROOSSIMD ANY UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES WHICH INTERFACE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES AND THE CONTRACTOR SHALL COMPENSE THE UTILITY COMPANIES. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACT AND NO EXTRACOMPENSE TO THE UTILITY COMPANIES AND THE UTILITY COMPANIES OF THE WARDOWN OF THE CONTRACT AND NO EXTRACOMPENSATION WILL BE ALGORED.

DRAINAGE SYSTEM NOTES

1. THE STRUCTURES SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. THE CONTRACTOR SHALL COORDINATE A FINAL INSPECTION OF THE COMPLETED STORM METER MANAGEMENT SYSTEM PRIOR TO FINAL ACCEPTANCE BY THE OWNER. CONTRACTOR TO MOTIFY THE FRUITEER 48 HOUSE IN ADJANCE TO SOCIEDAL INSPECTION.

SURVEYOR'S NOTES:

- 3. AERIAL IMAGERY SHOWN WITHIN THESE PLANS OBTAINED FROM SWEWND, DATED 2010.

LEGEND

PROPOSED CONTOURS

PROPOSED SHEET FLOW ARROW

PROPOSED SLOPE ARROW

PROPOSED SPOT ELEVATION

PROPOSED STORM PIPE

PROPOSED SILT FENCE

SECTION LOCATION

STANDARD PENETRATION TEST (SPT) LOCATION

AUGER BORING (AB) LOCATION

PROPOSED TURBIDITY BARRIER -O-

(RUN:RISE)

PROPOSED CHANNEL FLOW ARROW

PROPOSED

PROPOSED LIMITS OF GRADING ----

-

4

4:1

123.0

.....

DETAIL ID

EXISTING PROPERTY BOUNDARY EXISTING CONTOURS ---122----EXISTING CONTOURS DEPRESSION --- 122-EXISTING SHEET FLOW ARROW en EXISTING CHANNEL FLOW ARROW EXISTING SLOPE ARROW 4:1 +124.66 EXISTING SURVEYED POINTS EXISTING SPOT FLEVATION 123.0 EXISTING STORM PIPE EXISTING WATER ELEVATION

TH		ABBREVI				
DRAW	ING	OLLOWING LIST CONTAINS ABB S. NOTE THAT NOT ALL ABBRE WITHIN THIS	VIATIONS	SHO	WN HERE MIGHT APPEAR	
APPD	:	ACRE APPROVED APPROXIMATE ASPHALT AMERICAN WATER WORKS ASSOCIATION	NGS	:	NATIONAL GEODETIC	
APPD APPROX ASPH		APPROXIMATE			SURVEY NUMBER NOMINAL	
ASPH	:	ASPHALT AMERICAN WATER	NO (#) NOM NTS	:	NUMBER NONTHAL	
					NOT TO SCALE	
BL BLDG BLVD BM BOC BOT	:	BASE LINE BUILDING BOULEVARD BENCHMARK BACK OF CURB	OC OD OPMG OPP ORIG OVHD	:	ON CENTER OUTSIDE DIAMETER OPENING	
BLVD		BOULEVARD	OPNG		OPENING	
BM	:	BENCHMARK BACK OF CURB	OPP		OPPOSITE	
BOT			OVHD		OPPOSITE ORIGINAL OVERHEAD	
CF		CUBIC FEET CENTER LIME CENTER LIME CLEAN OUT, COMPANY COMMUNICATION COMMUNICATION COMMUNICATION COMMUNICATION COMMUNICATION COMMUNICATION COMMUNICATION COMMUNICATION COMMUNICATION CONSTRUCT, COMSTRUCTION CONTINUE, CONTINUED CONTINUE, CONTINUED CONSUMATED CUBIC FOOT CUBIC FOOT CUBIC FOOT CUBIC FOOT CUBIC FOOT CUBIC TARD	P PAR PC		PRANTE PARALLE L PARALLE L PARALLE L POINT OF CONVATUME PERFORMED PERFORMED POINT OF INTERSECTION PROMOTED THE PARALLE	
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co		CLEAN OUT, COMPANY			POINT OF CURVATURE	
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CP CL CMP CO COMM CONC.	ď	CONDUIT (UNDERGROUND).	PERF PERM PERP PI	0	PERPENDICULAR	
		CONDOMINIUM	PI		POINT OF INTERSECTION	
CONST.		CONSTRUCT, CONSTRUCTION	PL PM POL		PROPERTY LINE, PLATE	
CONTR	:	CONTRACTOR CONTRACT	POL	-	POINT ON LINE	
CONST. CONTR CORR		CORRUGATED	PREFAB		PREFABRICATED	
CU.FT.		CUBIC	PRC		POINT OF REVERSE	
CU.FT.	:	CUBIC FOOT	PROJ		PROJECT	
CY		CUBIC YARD	PROJ PROP PRV		PROPOSED	
00*	-		PRV		PRESSURE RELIEF	
DBI	:		PSF		POUNDS PER SQUARE	
DBI DBL DEMO DET DHW DI DIA DIM DIP DOM DS DWG		DOUBLE DEWOLITION DETAIL DESIGN HIGH WATER DUCTILE IRON			POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT OF POINT OF TANGENCY POLYYINYL CHLORIDE PAYEMENT	
DET	:	DETAIL DESIGN HIGH WATER	PSI		POUNDS PER SQUARE	
DI		DUCTILE IRON	PT		POINT OF POINT OF	
DIM	:	DIAMETER DIMENSION	PVC		POLYVINYL CHLORIDE	
DIP		DUCTILE IRON PIPE	PVC PVMT		POLYVINYL CHLORIDE PAVEMENT	0 80 500
DOM	*	DOMESTIC WATER	OUAD			
DWG		DIAMETER DIMENSION DUCTILE IRON PIPE DOMESTIC WATER DOWNSPOUT DRAWING	QUAL		QUADRANT	
		EAST EACH ELEVATION ELECTRIC, ELECTRICAL ENCLOSUME EQUIA EQUIPMENT ELLIPTICAL REINFORCED CONCRETE PIPE ESTIMATE EXISTING			RISER	100
E EA EL		EACH	R/W RAD RCP		RISER RIGHT OF WAY RADIUS REINFORCED CONCRETE	-Oh-11
EL	*	ELEVATION	RAD	:	RADIUS	200
ENCL	:	ENCLOSURE		-	PIPE	100
EQ		EQUAL	RD		ROAD, ROOF DRAIN	
ELEC ENCL EQ EQUIP ERCP	:	EQUIPMENT DEINEORGED	RD RED REINF REQ'D REV RH RM RNO ROW RR	:	REINFORCED CONCRETE PIDE ROAD, ROOF DRAIN REDUCER REINFORCING REVISION, REVISE RICHIT MANO ROUMD ROUMD ROUMD ROUMD ROUMD ROUMD ROHD ROHD ROHD ROHD ROHD ROHD ROHD ROH	
	9	CONCRETE PIPE	REQ'D		REQUIRED	100
EST		ESTIMATE	REV		REVISION, REVISE	1000
EXIST	:	EXISTING EXPANSION CONT. EXPANSION JOINT EXTERIOR	RH	:	RIGHT HAND	
EXP JT		EXPANSION JOINT	RND		ROUND	
EXT		EXTERIOR	RO		ROUGH OPENING	
FDC		FIRE DEPARTMENT	RR	:	RAILROAD	
-	ā	FIRE DEPARTMENT CONNECTION FLORIDA DEPARTMENT OF TRANSPORTATION FLARED END SECTION FIRE HYDRANT FIGURE FINISH FLOOR FLOOR FLOOR FLOOR FLOOR FLOOR FLOOR FLOOR	RT		RIGHT RELIEF VALVE	wheeler
FDOT		FLORIDA DEPARTMENT	RV			<u></u>
FES		FLARED END SECTION	S SAN SCH SECT		SOUTH SANITARY SCHEDULE SECTION	9
FF FH		FINISHED FLOOR	SAN		SANITARY	2
FH		FIRE HYDRANT	SCH	:	SCHEDULE	>
FIG	:	FINISH	SEW			
FL		FLOOR	SF or	SQ	FT = SQUARE FEET SHEET	L.
FLG		FLANGE	SH	:	SHEET	4
FM FRP	:	FIBERGLASS REINFORCED	SLV		SLEEVE	foster
		PLASTIC	SPEC	:	SPECIFICATION	P
FTG (')	:	FINISH FLANGE FLANGE FORCE MAIN FIBERGLASS REINFORCED PLASTIC FEET, FOOT FOOTING	SPR	:	SIMILAR SLEEVE SPECIFICATION SPRINKLER SOUARE	
	ũ	7007180	SEW SF OF SH SIM SLV SPEC SPR SQ SST ST STA STD		STAINLESS STEEL	amec
GA	*	GAUGE	87		STREET	9
GALV	:	GALVANIZED	STA	:	STATION STANDARD	
GA GALV GR GRND GS		GROUND			OTEEI	O
GS		GAUGE GALVANIZED GRADE GROUND GALVANIZED STEEL, GROUND SHOT	STRUC	0	STRUCTURAL	
			STRUC SYM SYS SY		STRUCTURAL SYMBOL SYSTEM SQUARE YARDS	
H		HORIZONTAL	SY	-	SQUARE YARDS	
MB MC MEX HORIZ	:	HANDICAP	1		TREAD	×
HEX		HEXAGON	TAN		TANGENT	0
HORIZ	:	HORIZONTAL HIGH	TECH	:	TECHNICAL	10
-	*	PRESSURE CONCRETE PIPE	TECH TEL TEMP	÷	TEMPERATURE,	2
H.PT.		HIGH POINT			TEMPORARY	2
H. PT. HT HW HYD	-	HEIGHT HIGH WATER	TERM	*	TREAD TANGENT TECHNICAL TELEPHONE TEMPERATURE, TEMPORARY TERNINAL, TERNINATE TOP OF BERM.	14
HYD		NORIZONTAL HOSE BIB HAMDICAP HEZAGON HORIZONTAL HIGH POINTA, HIGH PRESSURE CONCRETE PIPE HIGH WATER HYDRANT, NYDRAULIC	TOB		TOP OF BERN, TOP OF BANK TOP OF CONC, TOP OF CONC, TOP OF CURB TOP OF PAYEMENT TOP OF STEEL, TOE OF SLOPE TOP OF WALL FIFFYISION	HAMMOCK
		INSIDE DIAMETER INVERT ELEVATION INCH INCORPORATED INDUSTRIAL INFORMATION INSULATION INVERT	TOC		TOP OF CONC,	
IE		INVERT ELEVATION		Ű	TOP OF CURB	>
IN (")	-	INCH	TOP	:	TOP OF PAVEMENT	10
INC	:	INCORPORATED			TOE OF SLOPE	
INFO		INFORMATION	TOW	-	TOP OF WALL	
ID IE IN (*) INC IND INFO INSUL INV	:	INSULATION	TV TYP TAB	:		
	Ĩ		TAB		TYPICAL TOP AND BOTTOM	ALLION
JCT	=	JUNCTION				

- 1. THE EXISTING TOPOGRAPHIC INFORMATION DEPICTED WITHIN THIS SET OF CONSTRUCTION DEPARTMOS IS COMMINED FROM THERE DATA SOURCES AND REPRESENTS THE SEST AVAILABLE INFORMATION FOR THIS APPROVINGED BY SHIPTICH SOLUTIONS, INC. THIS INFORMATION AND COMMINED WITH LIDAR OF THE APPROVINGED BY SHIPTICH SOLUTIONS, INC. THIS INFORMATION AND COMMINED WITH LIDAR OF COMMINED STRUCK SHIPTICH AND COLUMN THE APPROVINGED BY EARTHOUGH FOR SHIPMINED AND CONTROL OF THE APPROVINGED BY EARTHOUGH FOR SHIPMINED STRUCK SHIPMINED AND CONTROL OF THE APPROVINGED STRUCK SHIPMINED STRUCK SHIP
- THE VERTICAL DATUM USED FOR THIS PROJECT IS NAVD 1988, U.U. SURVEY FEET. THE BENCHMARK UTILIZED WAS HILLSBOROUGH COUNTY BENCHMARK 'ACA 2' WITH AN ELEVATION OF 128, 242 FEET.

- 5. PROFESSIONAL FIELD SURVEY WAS LIMITED TO ESTABLISHING EXISTING CULVERT INVERTS AND DIMENSIONS, DAHAGE CUTLET AND INLET ELEVATIONS AT OFFSITE PROJECT GOURDARIES, MATER LEVELS AT TIME OF SURVEY, AND MONITORING WELL ELEVATIONS, GROWN CONTOURS WERE DERIVED FROM NEWOTE SENSING DATA AND WERE NOT VERIFIED BY FIELD SURVEY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING GROWN INFORMATION FOR BIODING AND CONSTRUCTION PURPOSES.

NOTE:

CONSTRUCTION PLANS ARE AVAILABLE IN AUTODESK CIVIL 3D FORMAT ONLY.

JOHN HATEFER FLA. REG. NO. 51991 EL

BALW HEE

DATE CE BUSIA OHECKED BY 1 DHALLEFER ROJECT NO.: 600308.9

INC. Ave. 33617

Amec Foster Wheeler
Environment & Infrastructure, I 1101 Charmelide Dr., Sulle 200, Tampa, Ft. 33 Phone: 182.2890/DG Ear; 181.2898.547 www.annedw.com. CA-5392

FLORIDA

AL NOTES COUNTY,

GENER. ROUGH

HILLSBOF

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STALLION

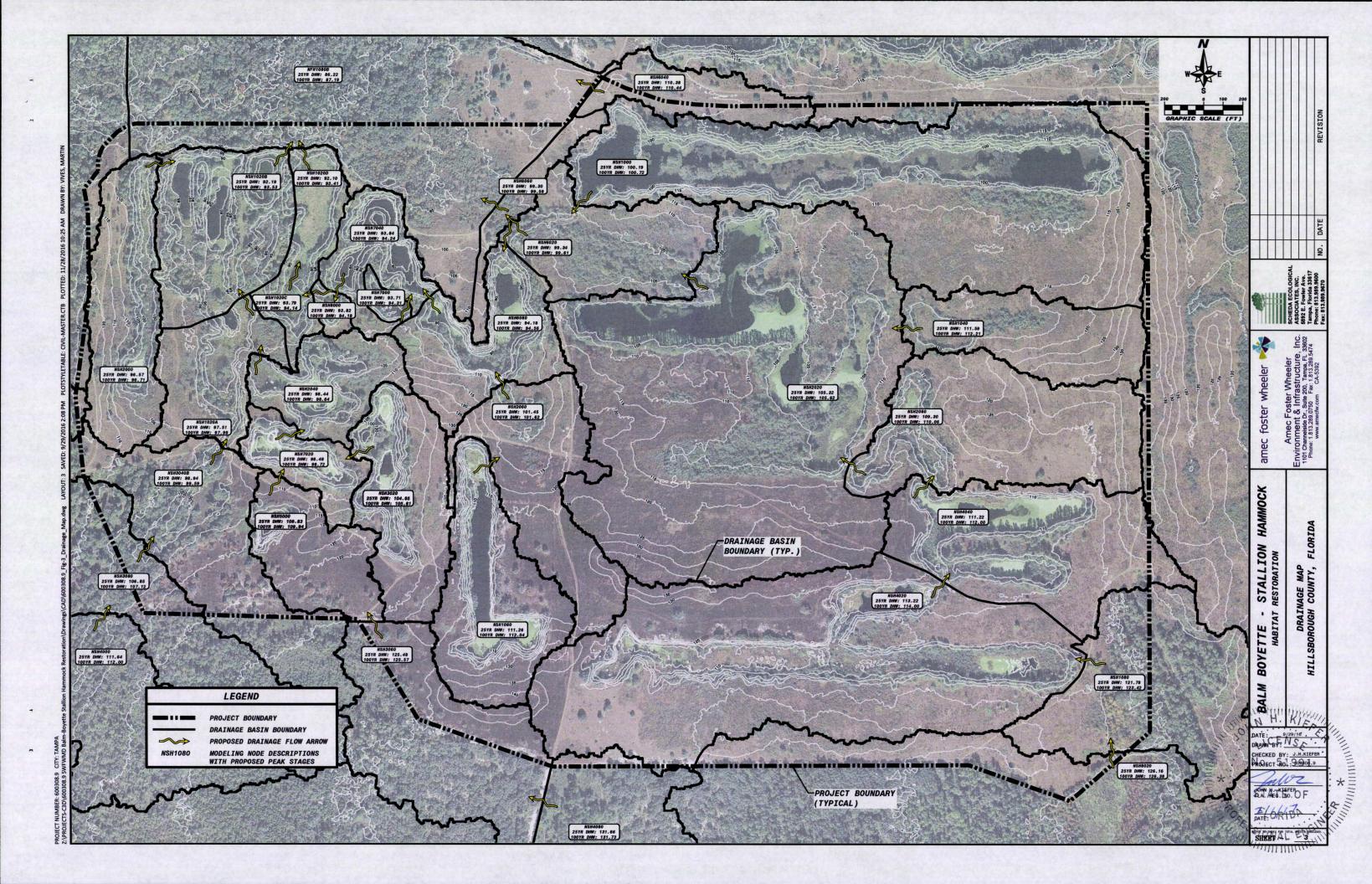
BOYETTE -

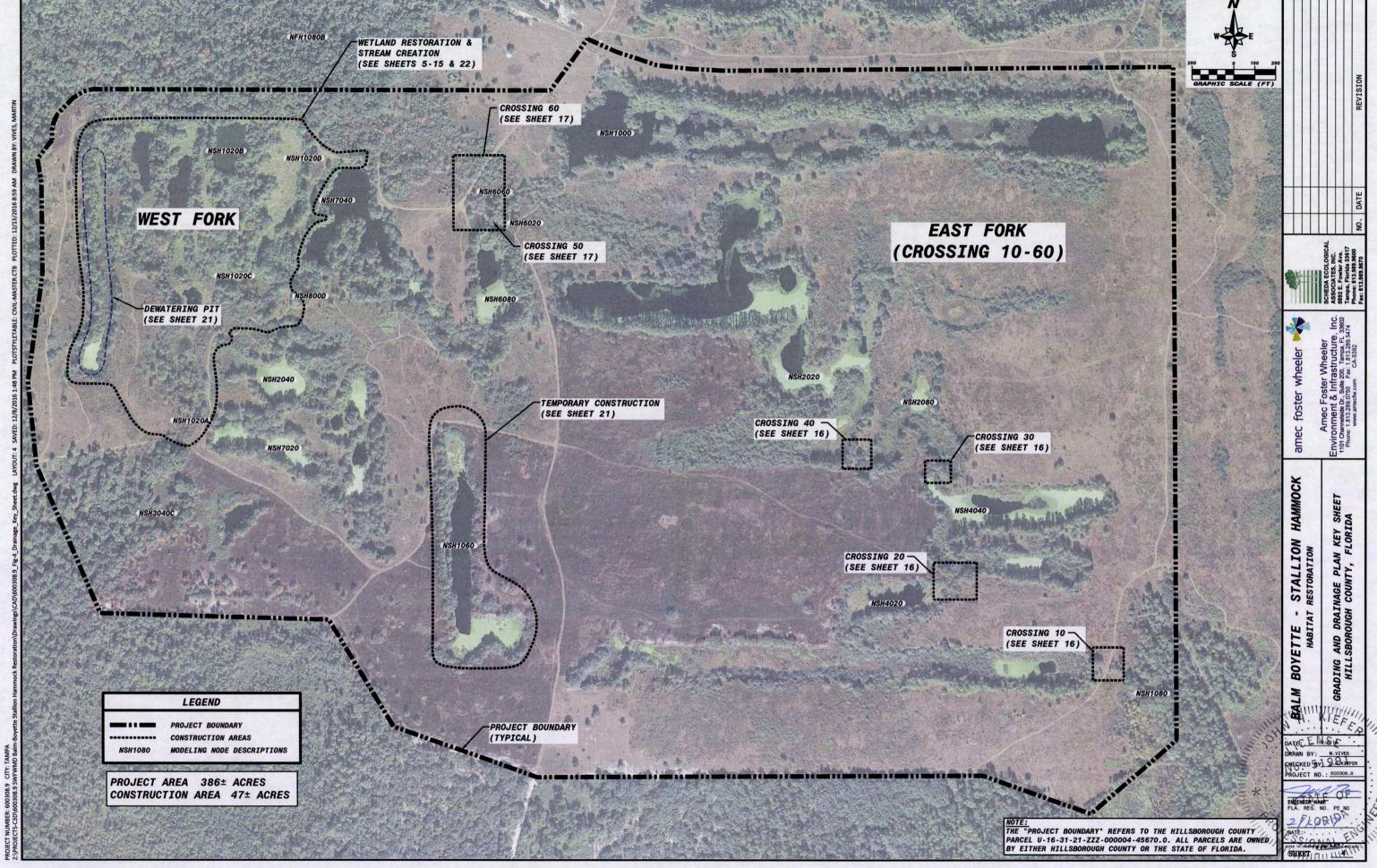
= WESI, WIDTH, WATT
= WITH
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E = WAMENOUSE
= WATER LINE
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WATER FABRIC
= WEIGHT
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X-SEC = CROSS SECTION

MATERIAL
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CDATE: SHEET ITILLIZATE









APPROXIMATE PROJECT AREA ZONES RIDGE (2.13 ac) LEVEL POOL WETLAND (9.25 ac) RIVERINE (9.83 ac) SEEPAGE WETLAND (3.04 ac) UPLAND (2.31 ac)

NOTE: GRADING SURFACES

- THE CONTRACTOR MUST SUBMIT A GRADING PLAN FOR THE PROJECT FOR OWNER APPROVAL PRIOR TO COMMENCING EARTHWORK, PLAN SHALL PROVIDE THE OVERALL CONSTRUCTION SEQUENCE FOR THE PROJECT, HAUL ROUTES, CUT SEQUENCE, AND FILL SEQUENCE FOR THE ENTIRE

- PROVIDE THE OVERALL CONSTRUCTION SEQUENCE FOR THE PROJECT HAUL ROUTES, CUT SEQUENCE, AND FILL SEQUENCE FOR THE ENTIRE PROJECT AREA.

 2. RIVERINE VALLEY AND RIDGE ARE PRIORITY AREAS THAT MUST BE GRADED AS DEPICTED IN PLANS (SEE SHEETS 6-8 AND 11-13 FOR DETAILS).

 3. SEEPAGE WETLAND IS A VARIABLE BORROW AREA, INTENDED TO PROVIDE FILL MATERIAL TO BALANCE CUT AND FILL FOR THE PROJECT.

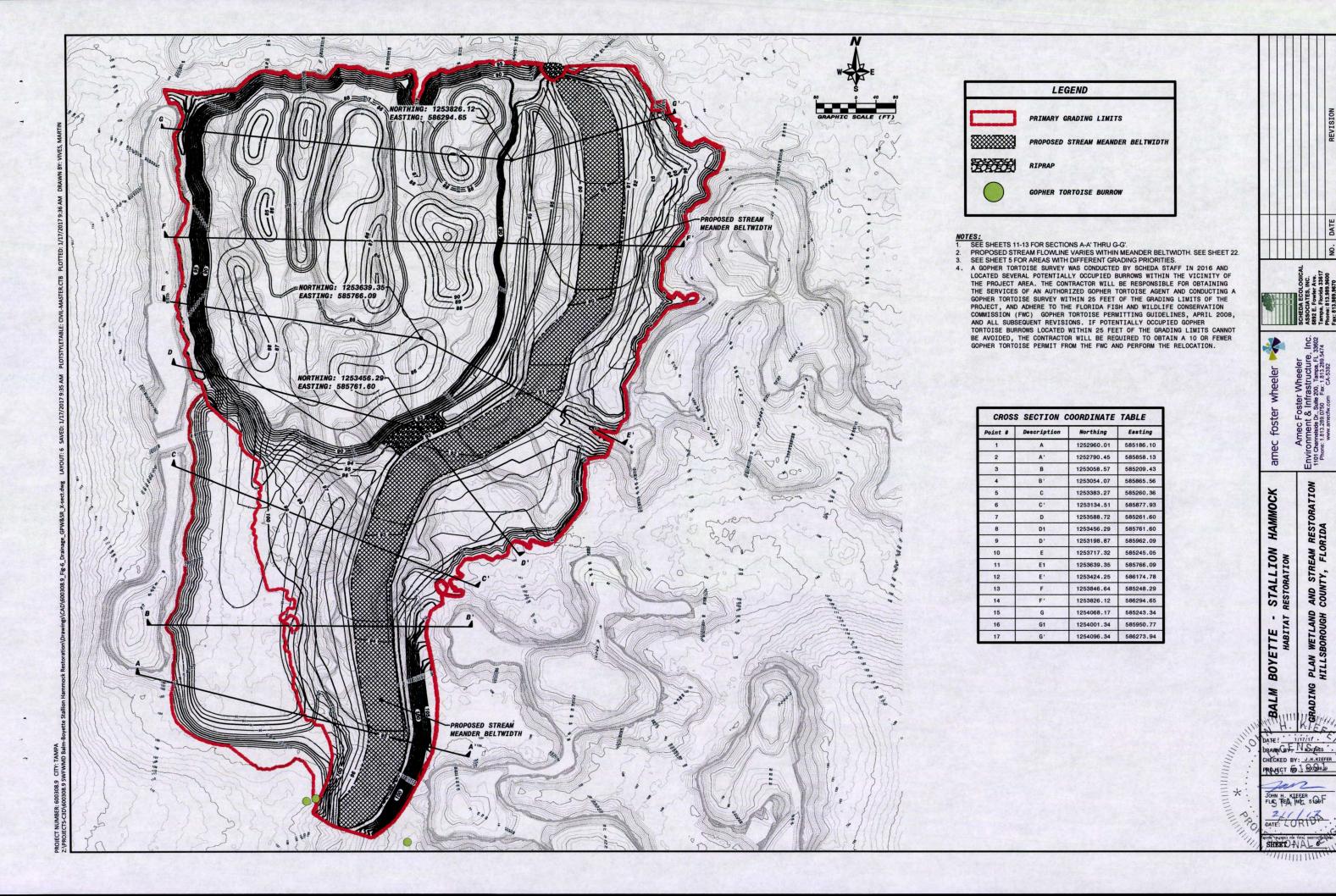
 4. SEEPAGE WETLAND GRADING TO CEASE WHEN MATERIAL IS RECOVERED TO CREATE THE RIVERINE VALLEY, RIDGE, AND LEVEL POOL WETLAND AREAS, AS DEPICTED IN THE PLANS. ITS TERMINAL SLOPES ARE TO BE 4:1 H-V OR MORE GRADUAL IF THE SEEPAGE AREA IS NOT FULLY CONSTRUCTED TO THE LIMITS SHOWN IN PLANS. TERMINATION OF SEEPAGE WETLAND CONSTRUCTION MUST BE APPROVED BY OWNER.

 5. LEVEL POOL WETLAND CAN BE GRADED WITH SELECTED DEEPER AREAS THAN SHOWN IN THE PLAN IF, AND ONLY IF, THE ENTIRE PROJECT AREA DOES NOT OTHERWISE PROVIDE A SUFFICIENT BALANCE OF MATERIAL TO ACHIEVE DESIGN GRADE AS DEPICTED IN THE PLANS.

 6. CONTRACTOR MUST OBTAIN OWNER APPROVAL REGARDING FINAL GRADES IF THEY MUST DEVIATE FROM THE DRAWINGS IN THE SEEPAGE WETLAND OR LEVEL POOL AREAS TO ACHIEVE A CUT/FILL BALANCE PRIOR TO FINAL CONTOURING.

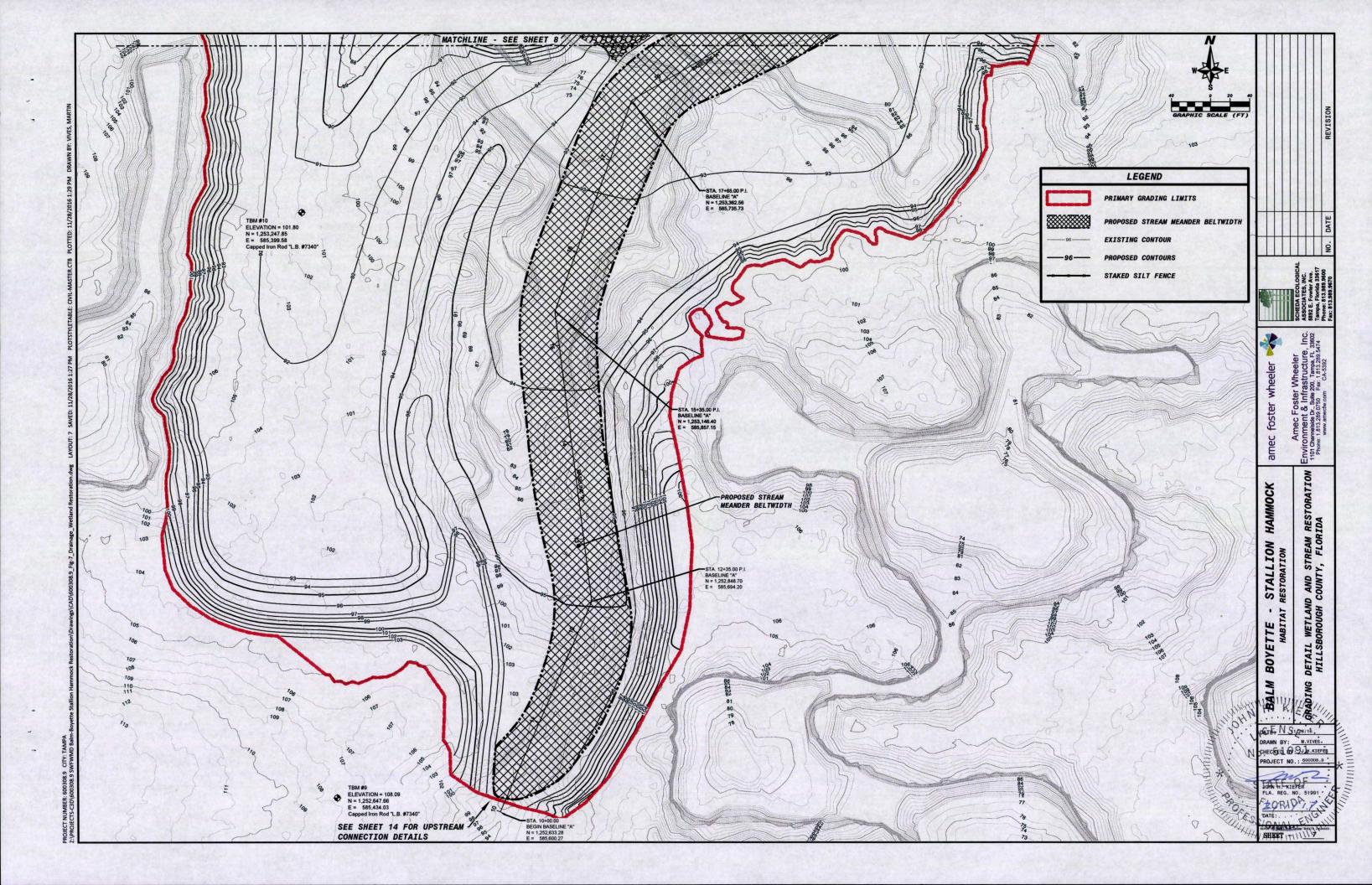
HAMMOCK

STALLION BOYETTE -



STREAM RESTORATION ITY, FLORIDA

PLAN WETLAND HILLSBOROUGH



LEGEND

PALUSTRINE EMERGENT PLANTING

PALUSTRINE FORESTED PLANTING

PALUSTRINE TRANSITIONAL PLANTING

RIPARIAN WETLAND

RIVERINE HIGH MARSH PLANTING

RIVERINE TRANSITIONAL PLANTING

SEEPAGE WETLAND

UPLAND ENHANCEMENT PLANTING

NOTES:

1. SEE SHEETS 11-13 FOR SECTIONS.
2. SEE SHEET 10 FOR PLANTING SPECIES AND QUANTITIES.

STALLION

BOYETTE -

Zone	
Palustrine Emergent	
Palustrine Forested	
Palustrine Transitional	
Riparian Wetland	
Riverine High Marsh	
Riverine Transitional	
Seepage Wetland	
Upland Enhancement	

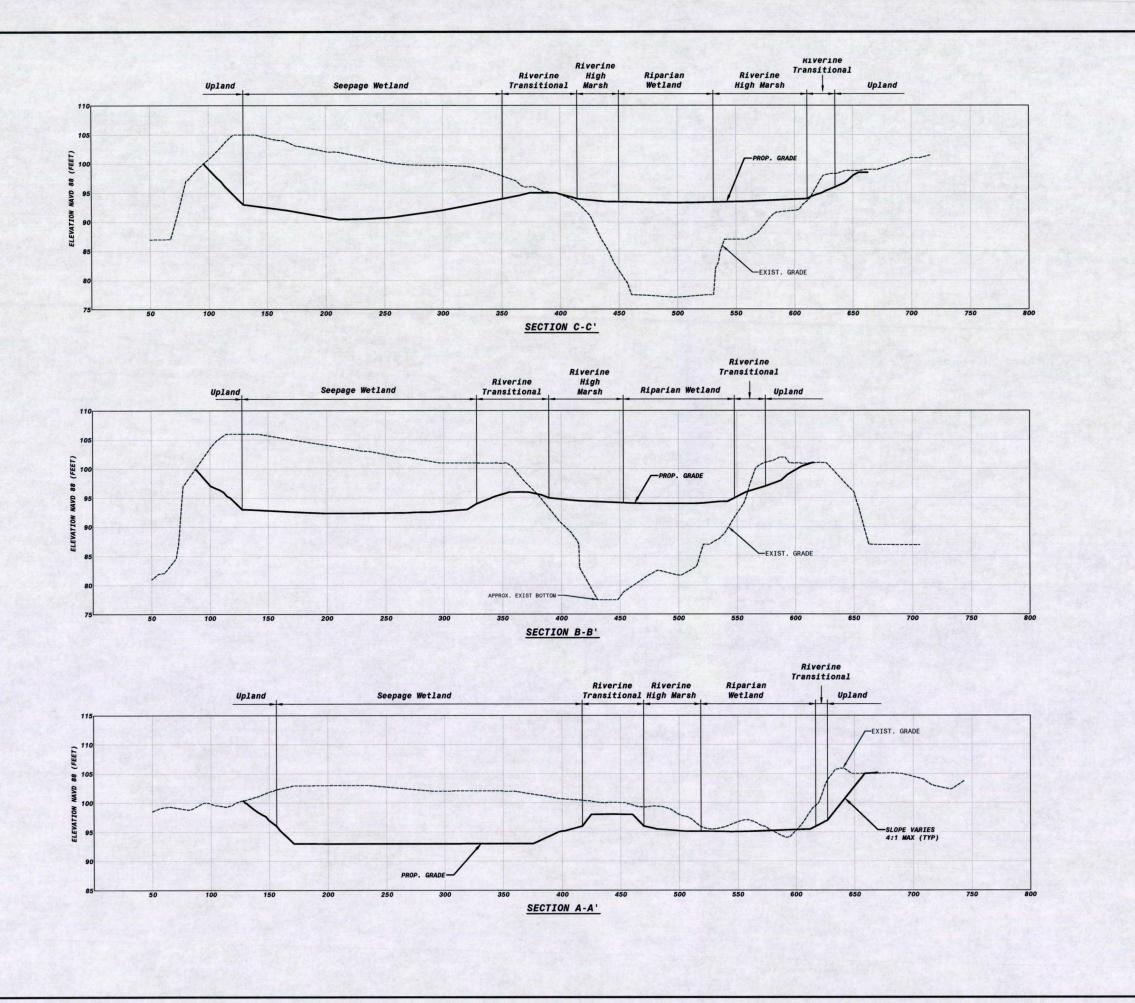
7	Acres	Stallion Hammock Preserve P			Consider	70000/	0		
Zone	Acres	Scientific Name	Common Name	Size	Spacing	Zone %	Quantit		
Paluetrina Emercant	2 41	Herbaceous Pontadorio condeta	nieko rahua ad	211 11	21-	F00/	6700		
Palustrine Emergent	2.41	Pontederia cordata	pickerelweed	2" cell	3' o.c.	50%	6730		
		Scirpus validus softstem bulrush 2" cell 3' o.c. 50% 673							
		Herbaceous	1			222			
16.40		Eleocharis cellulosa	coastal spikerush	2" cell	3' o.c.	20%	5551		
		Pontederia cordata	pickerelweed	2" cell	3' o.c.	40%	11103		
Palustrine Forested	4.97	Sagittaria lancifolia	arrowhead	2" cell	3' o.c.	40%	11103		
		Tree			De Carlo				
		Fraxinus caroliniana	pop ash	1 gal.	10' o.c.	25%	626		
	100	Taxodium distichum	bald cypress	1 gal.	10' o.c.	75%	1879		
		Herbaceous							
		Juncus effusus	softrush	2" cell	3' o.c.	10%	1044		
		Panicum hemitomon	maidencane	2" cell	3' o.c.	60%	6266		
		Polygonum hydropiperoides	smartweed	2" cell	3' o.c.	30%	3133		
		Shrub							
Palustrine Transitional	1.87	Cephalanthus occidentalis	buttonbush	1 gal.	10' o.c.	100%	942		
	_	Tree	- Control of the cont	2 8011	20 0.0.	20070			
		Acer rubrum	red maple	1 gal.	10' o.c.	30%	283		
		Fraxinus caroliniana	pop ash		10' o.c.	30%			
			1	1 gal.			283		
		Liquidambar styraciflua	sweetgum	1 gal.	10' o.c.	20%	188		
		Ulmus americana	American elm	1 gal.	10' o.c.	20%	188		
		Herbaceous							
		Juncus effusus	softrush	2" cell	3' o.c.	100%	20553		
		Shrub							
		Cephalanthus occidentalis	buttonbush	1 gal.	10' o.c.	100%	1855		
Riparian Wetland	3.68	Tree	A Company of the	6-1-2-					
Riparian Wedana	3.00	Acer rubrum	red maple	1 gal.	10' o.c.	20%	371		
		Fraxinus caroliniana	pop ash	1 gal.	10' o.c.	20%	371		
A Property of the last		Ilex cassine	dahoon holly	1 gal.	10' o.c.	20%	371		
		Magnolia virginiana	sweetbay	1 gal.	10' o.c.	20%	371		
		Quercus laurifolia	laurel oak	1 gal.	10' o.c.	20%	371		
		Herbaceous							
		Spartina bakeri sand cordgrass 2" cell 3' o.c. 100% 20106							
		Shrub	Jana coragiass	Z CCII	D 0.c.	10070	20100		
		Myrica cerifera	wax myrtle	1 gal	10' o.c.	100%	1814		
Riverine High Marsh	3.6	Tree	wax myrtie	1 gal.	10 O.C.	100%	1014		
Kiverille High Marsh	3.0		La deceste 1	4 1	101	2504	454		
		Acer rubrum	red maple	1 gal.	10' o.c.	25%	454		
		Celtis laevigata	hackberry	1 gal.	10' o.c.	25%	454		
		Quercus laurifolia	laurel oak	1 gal.	10' o.c.	25%	454		
		Ulmus americana	American elm	1 gal.	10' o.c.	25%	454		
	3.4	Herbaceous							
		Spartina bakeri	sand cordgrass	2" cell	3' o.c.	100%	18989		
		Shrub		-					
		Myrica cerifera	wax myrtle	1 gal.	10' o.c.	100%	1714		
Riverine Transitional		Tree		THE PARTY		To have	7		
		Acer rubrum	red maple	1 gal.	10' o.c.	25%	428		
		Celtis laevigata	hackberry	1 gal.	10' o.c.	25%	428		
		Pinus elliotii	slash pine	1 gal.	10' o.c.	25%	428		
		Quercus nigra	water oak	1 gal.	10' o.c.	25%	428		
	-	Herbaceous	water oak	I gai.	10 0.0.	23/0	420		
	2.96		landtauah	211 11	21	F00/	0200		
		Juncus effusus	softrush	2" cell	3' o.c.	50%	8266		
Seepage Wetland		Spartina bakeri	sand cordgrass	2" cell	3' o.c.	50%	8266		
		Tree	The state of the s	10		1 11 1			
The second of		Acer rubrum	red maple	1 gal.	10' o.c.	50%	746		
		Magnolia virginiana	sweetbay	1 gal.	10' o.c.	50%	746		
	nt 3.68	Herbaceous	No. 3 State of the	15. 19	1	11. 15.	Marie To		
		Spartina bakeri	sand cordgrass	2" cell	3' o.c.	100%	20553		
Unland Enhancement		Shrub		Mark.					
Upland Enhancement		Myrica cerifera	wax myrtle	1 gal.	10' o.c.	100%	1855		
		Tree					11-11		
		The state of the s	The second second second second				-		

Stallion Hammock Preserve Optional Planting Specifications Table							
Zone	Acres	Scientific Name	Common Name	Size	Spacing		
	up to 5	Herbaceous					
Floating Leaf Emergent		Nuphar luteum	cow lily	bare root	10' o.c.		
		Nelumbo lutea	American lotus	bare root	10' o.c.		

NOTE:

CONTRACTOR TO INSTALL FLOATING LEAF EMERGENT COMMUNITY IN DEEP AREA ONLY IF DIRECTED BY OWNER. INSTALLATION OF THE COMMUNITY WILL ONLY OCCUR IF FILL DEFICITS REQUIRE AREAS OF COMPATIBLE GRADING DEPTHS IN THE LEVEL POOL WETLAND (SEE SHEET 5)

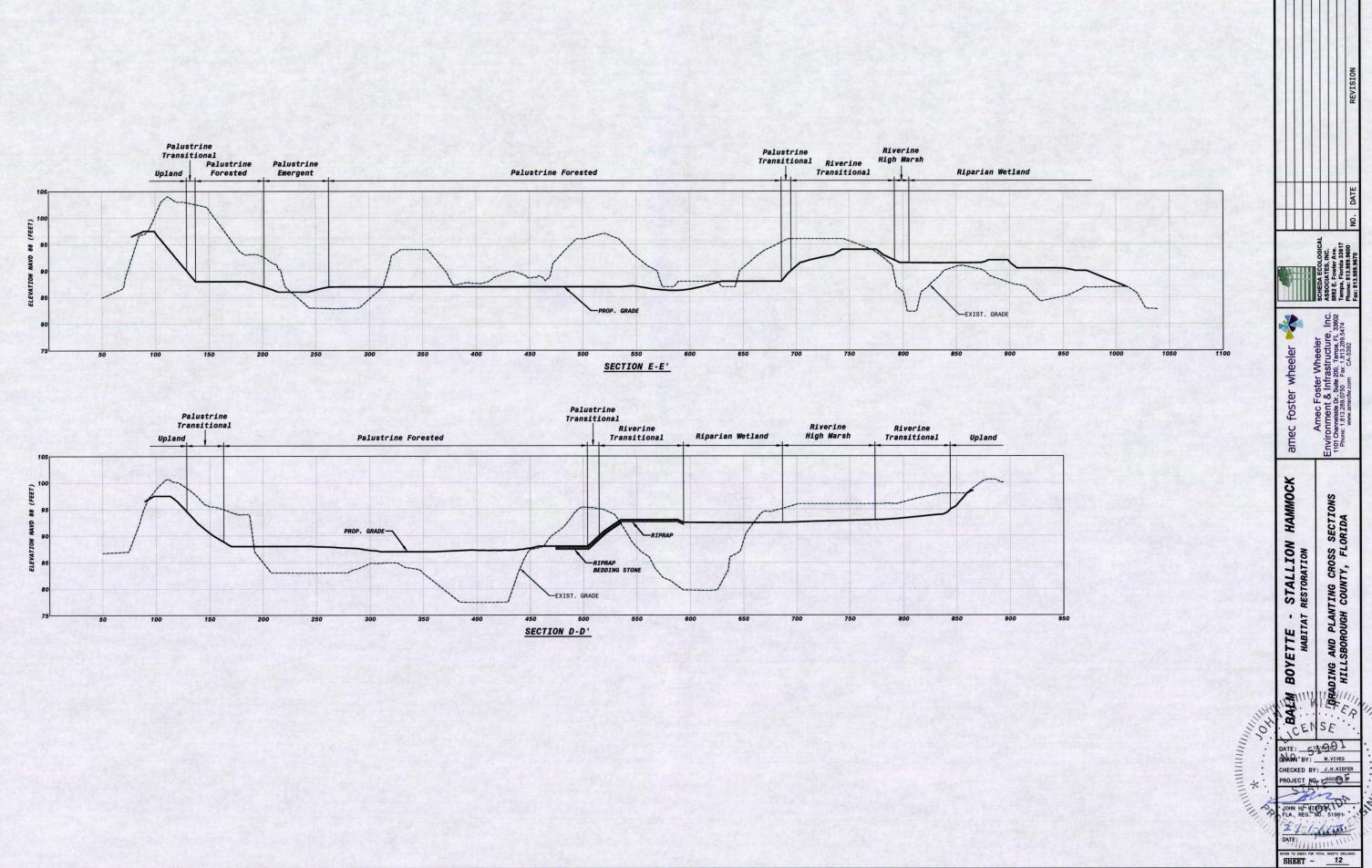
NOTE: * PLANT IN CLUSTERS SEE SHEET 9 FOR VEGETATION ZONES BALM BOYETTE - STALLION HAMMOCK

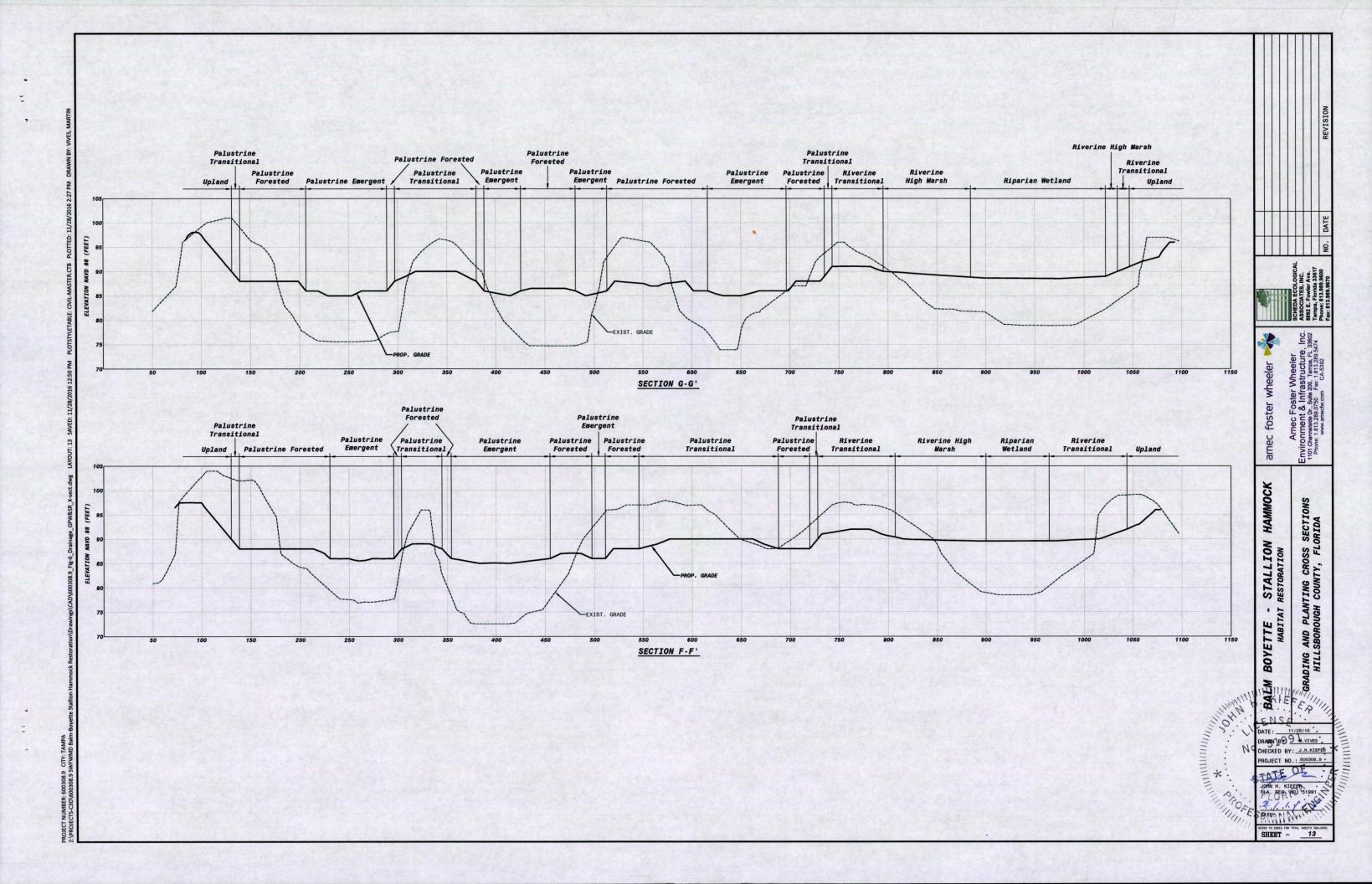


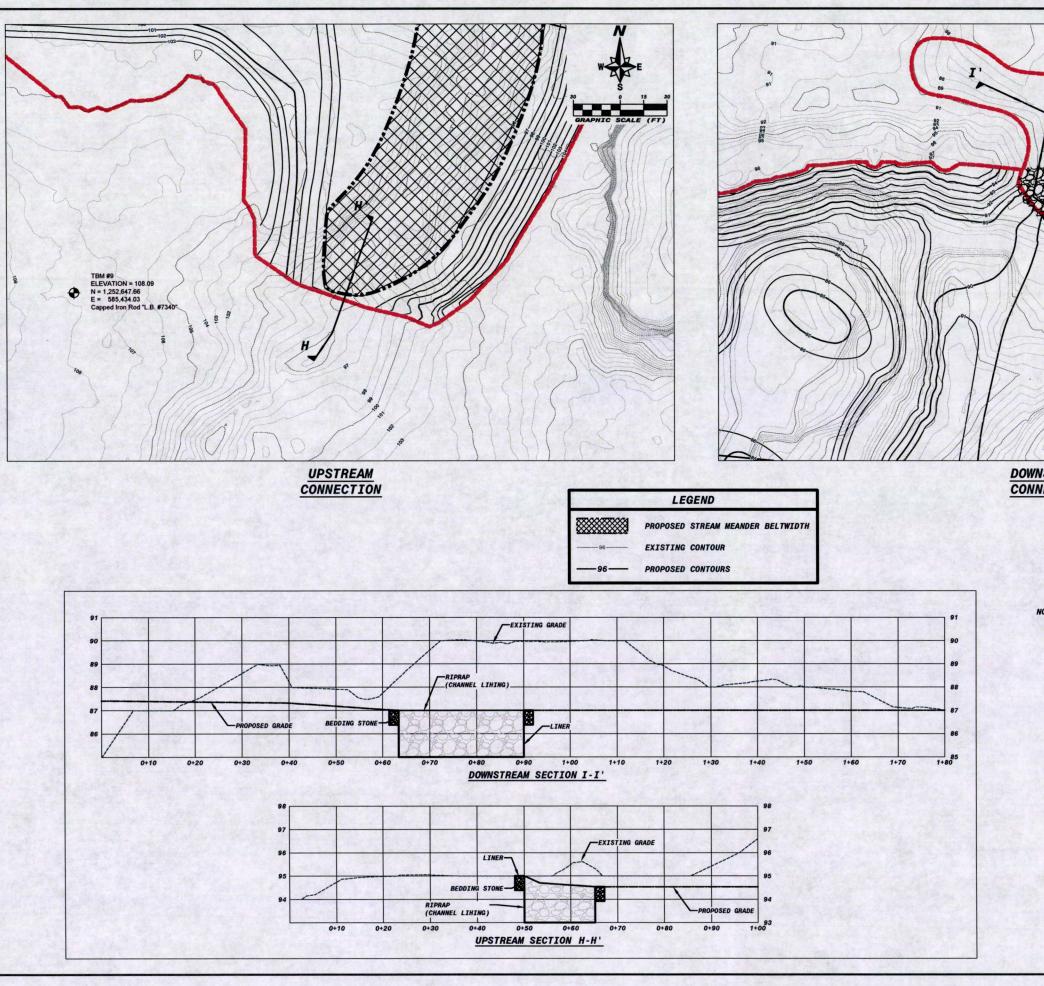
amec foster wheeler STALLION HAMMOCK RESTORATION BALM BOYETTE -

AND PLANTING CROSS SECTIONS SECTIONS

CHECKED BX: JH.KIEFER PROJECT NO.: 600308.9 JOHN H. KTEFER







DOWNSTREAM CONNECTION

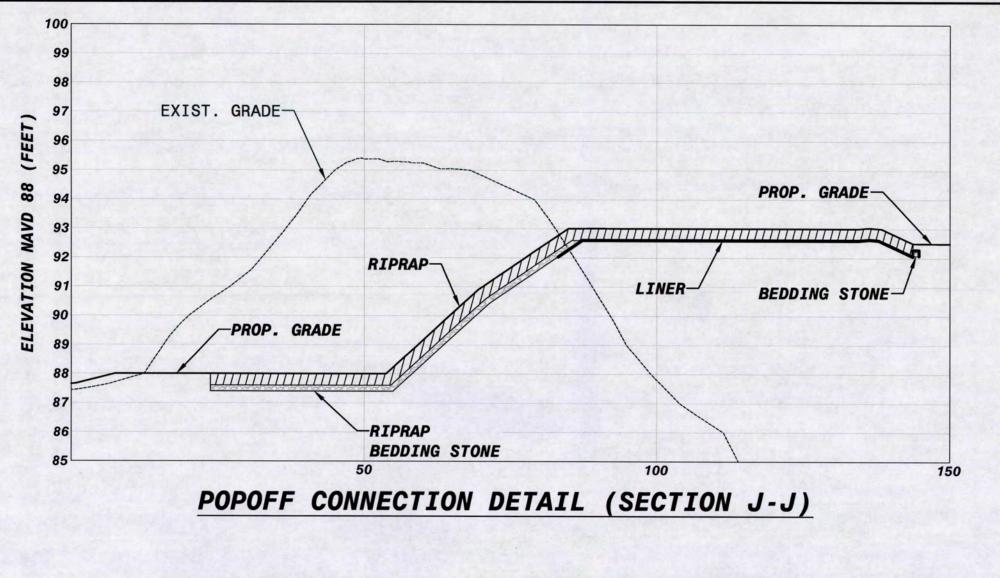
NOTE:

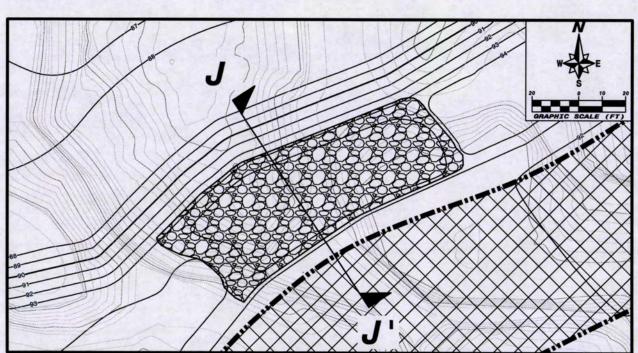
1. RIPRAP LOCATIONS APPROXIMATE, TO BE FIELD FIT AFTER HYDRAULIC CARVING.
2. DOWNSTREAM CONNECTION WILL REQUIRE ADDITIONAL GRADING TO MATCH
RESTORED AND EXISTING CHANNEL ELEVATIONS AND DIMENSIONS. THIS WORK
CONSISTS OF A CHANNEL EXTENSION WITH BASE WIDTH OF 10 TO 15 FEET, TOP
WIDTH OF 40 FEET, AND LENGTH OF UP TO 120 FEET DOWNSTREAM FROM THE
RIPRAP LIMITS. ALL EXPOSED SOILS ALONG THE CONTOURED CHANNEL
EXTENSION TO BE FULLY LINED WITH A 3 YEAR RATED BIODEGRADABLE COIR
EROSION CONTROL BLANKET.
3. DOWNSTREAM GRADE MAY VARY FROM THOSE DEPICTED TO EDGE-MATCH

S. DOWNSTREAM GRADE MAY VARY FROM THOSE DEPICTED TO EDGE-MATCH GRADES. EXPECTED TO OCCUR BETWEEN 87-88' NAVD.

HAMMOCK STALLION BOYETTE -DATE: 11/29/16 DRAWN BY: M.VIVES CHECKED BY: J.H.KIEFER PROJECT NO. : 600308.9

amec foster wheeler

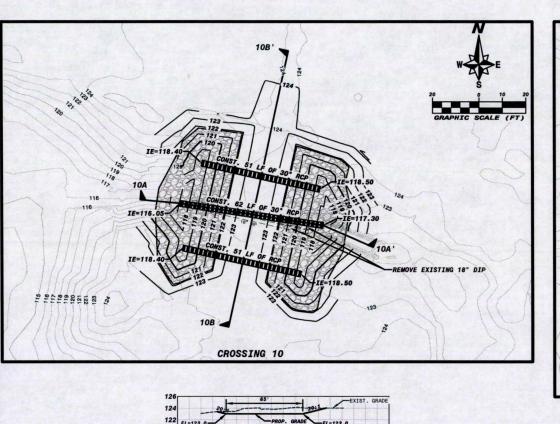


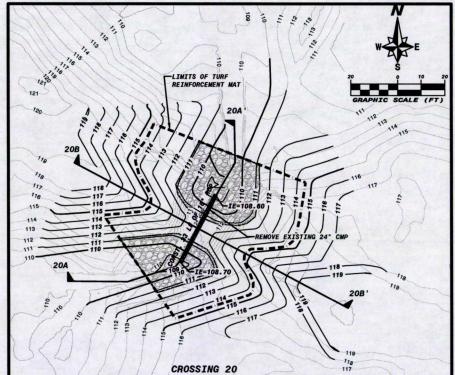


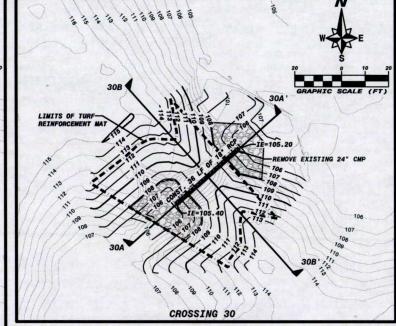
SECTION J - J' (REFER TO SHEET 8)

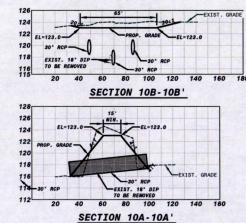
LEGEND

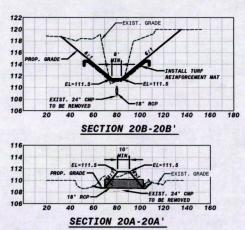
BOYETTE - STALLION HAMMOCK HABITAT RESTORATION

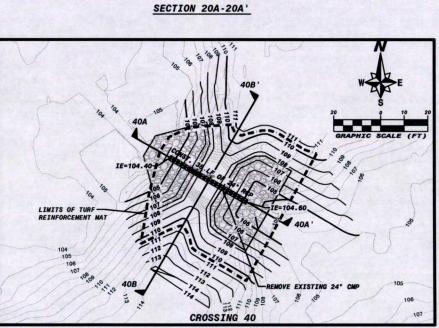


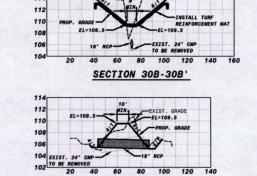




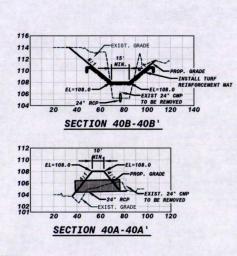








SECTION 30A-30A'



- NOTES:

 1. TURF REINFORCEMENT MAT SC250 PRODUCED BY NORTH AMERICAN GREEN WITH PINNED SOD OVERLAY, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

 2. INSTALL RUBBLE RIPRAP (DITCH LINING) AT THE UPSTREAM AND DOWNSTREAM ENDS OF EACH PIPE AT ALL CROSSINGS.

wheeler

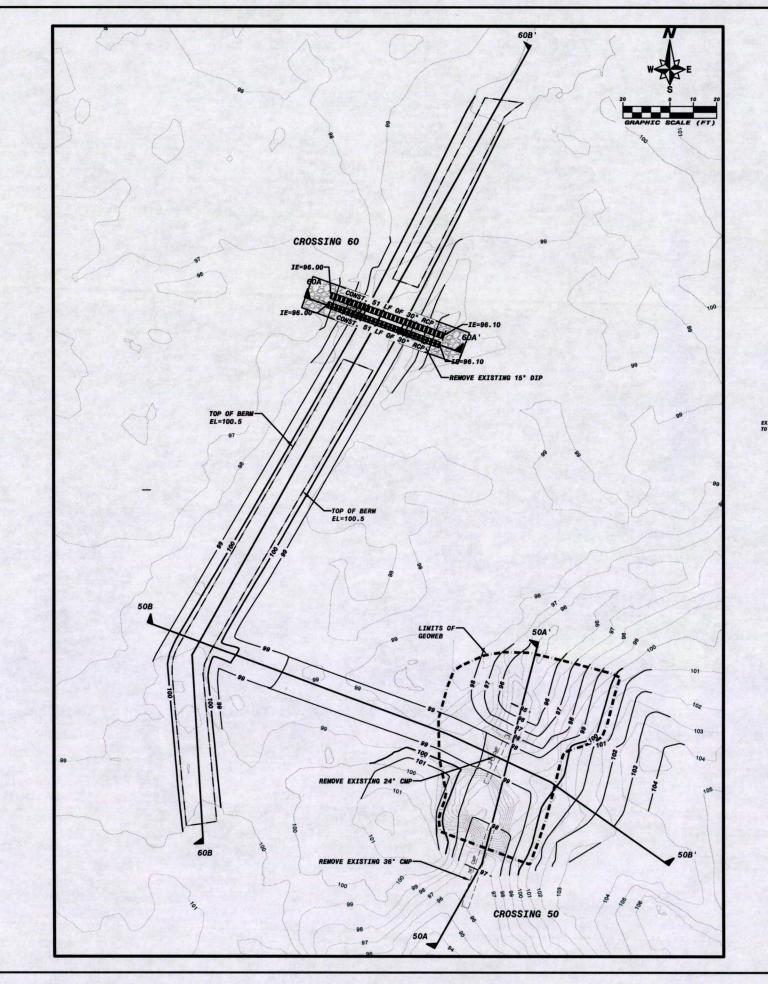
amec foster

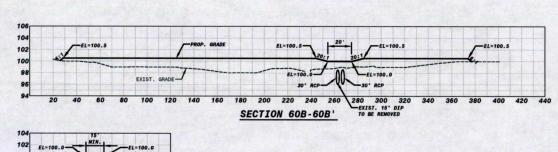
HAMMOCK

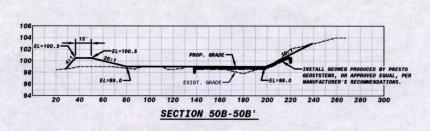
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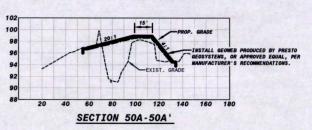
BOYETTE

BALM









SECTION 60A-60A'

NOTES:

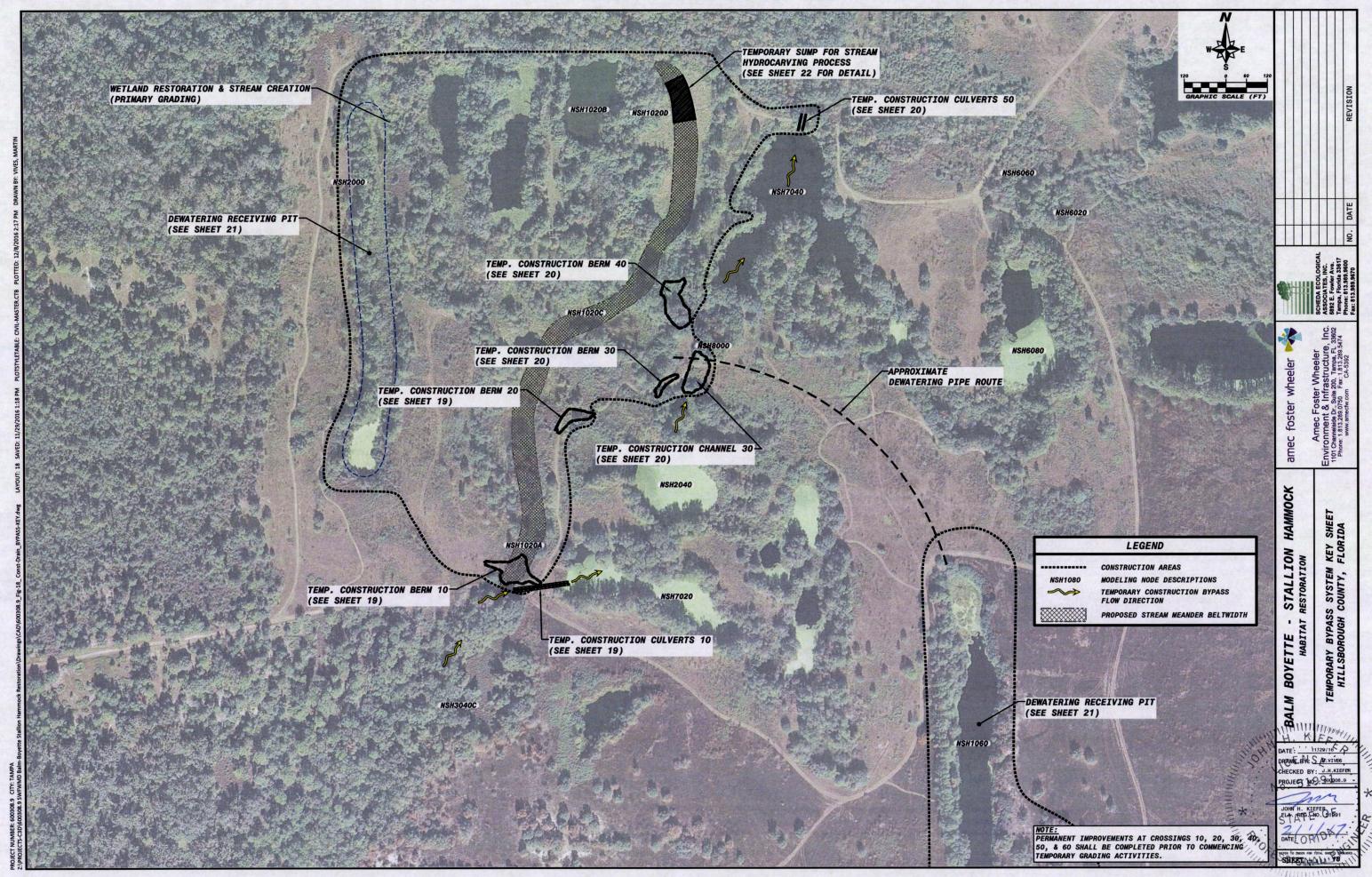
1. TURF REINFORCEMENT MAT SC250 PRODUCED BY NORTH AMERICAN GREEN WITH PINNED SOD OVERLAY, OR APPROVED EQUAL. INSTALL PER MANUFACTURED S RECOMMENDATIONS.

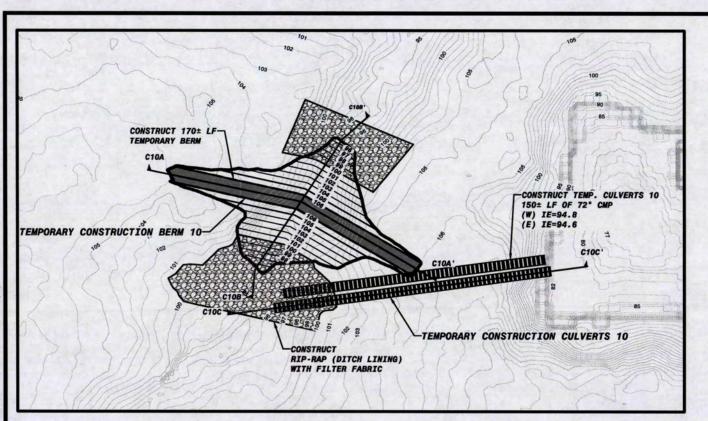
2. INSTALL RUBBLE RIPRAP (DITCH LINING) AT THE UPSTREAM AND DOWNSTREAM ENDS OF EACH PIPE AT ALL CROSSINGS.

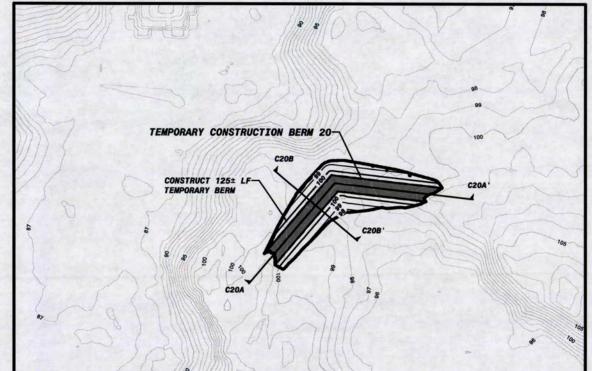
STALLION HAMMOCK RESTORATION

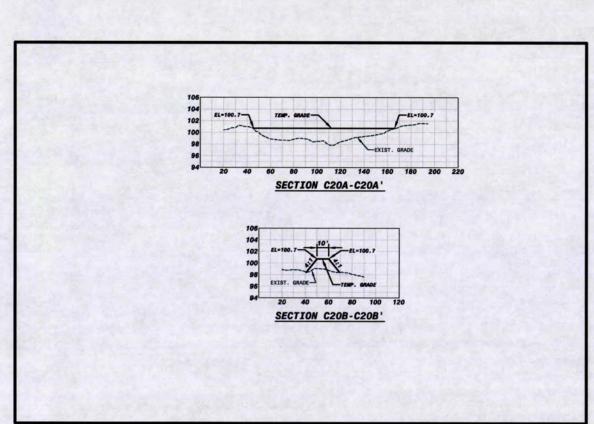
BOYETTE -

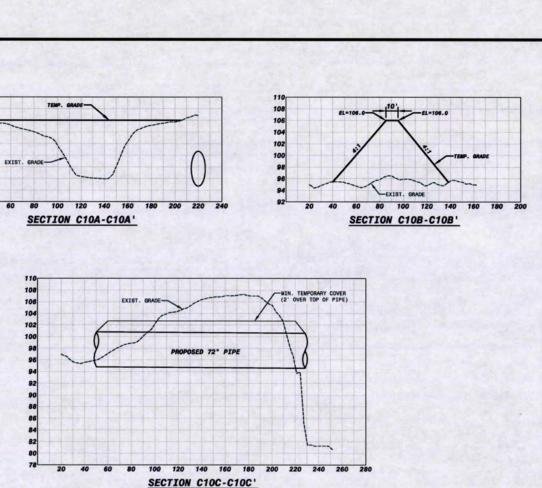
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- NOTES:

 1. ALL TEMPORARY EARTHWORK TO BE COVERED WITH TEMPORARY ROLLED EROSION CONTROL PRODUCT (RECP) NORTH AMERICAN GREEN SC150BN BIONET, OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

 2. INSTALL DITCH LINING RIPRAP AS INDICATED ON PLANS, OVER RECP.

 3. ALL TEMPORARY FILL MATERIAL TO BE REMOVED & RETURNED TO ORIGINAL OR PERMANENT DESIGN GRADE AS INDICATED ON PLAN.

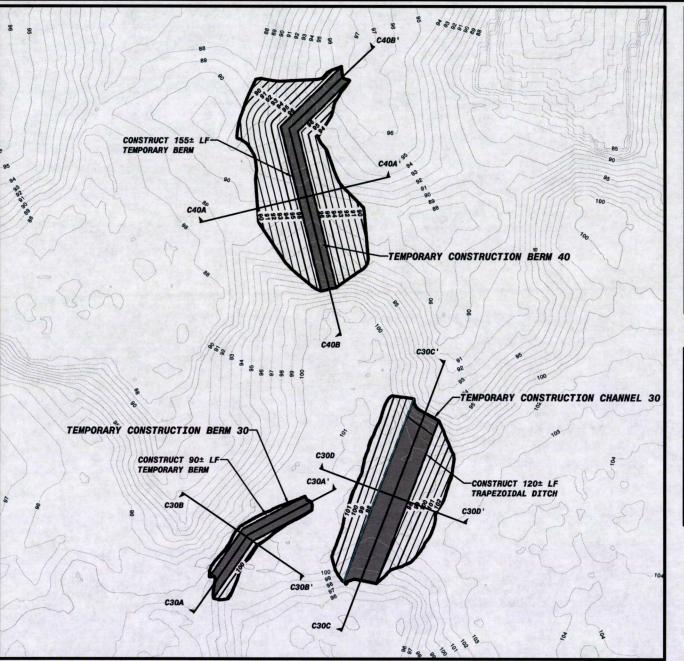
foster

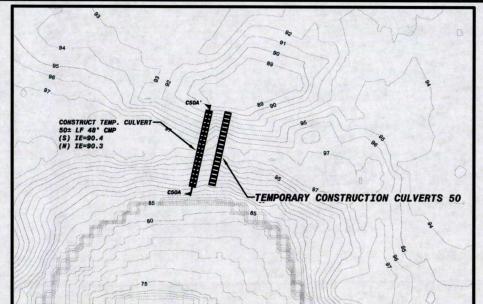
STALLION HAMMOCK

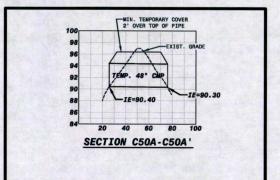
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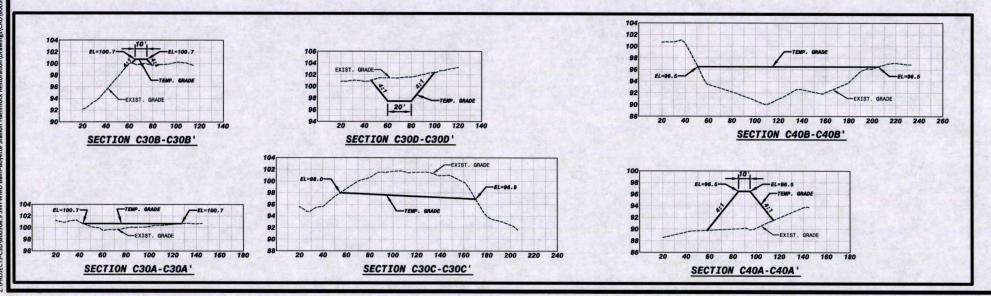
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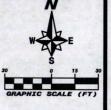








- ALL TEMPORARY EARTHWORK TO BE COVERED WITH TEMPORARY ROLLED EROSION CONTROL PRODUCT NORTH AMERICAN GREEN SC150BN BIONET, OR APPROVED EQUAL.
- INSTALL DITCH LINING RIPRAP AS INDICATED ON PLANS, OVER RECP.
 ALL TEMPORARY FILL MATERIAL TO BE REMOVED & RETURN TO ORIGINAL OR PERMANENT GRADE AS INDICATED ON PLAN.



STALLION HAMMOCK RESTORATION

BALM BOYETTE -

JOHN H. AKTERER OF

LEGEND

APPROX. DEWATERING PIPE ROUTE

NSH106

DEWATERING RECEIVING PIT CONSTRUCTION AREAS MODELING NODE DESCRIPTIONS

CONSTRUCTION DEWATERING NOTES

- CONTRACTOR SHALL ENSURE DISCHARGES FROM DEWATERING RECEIVING PITS SHALL MEET OR EXCEED WATER QUALITY STANDARDS FOR CLASS III WATERS.
- WATER BODIES IDENTIFIED AS NSH1060 & NSH2000 SHALL BE UTILIZED AS NECESSARY FOR CONSTRUCTION DEWATERING. DEWATERING DISCHARGE TO OTHER WATER BODIES IS PROHIBITED.
- CONSTRUCTION DEWATERING PIPELINES SHALL BE LOCATED WITHIN THE DEWATERING PIPELINE CORRIDOR, AS INDICATED ON THE CONSTRUCTION PLANS.
- 4. DEWATERING PIPELINE TO BE LAID ON GRADE WITH THE EXCEPTION OF CROSSINGS UNDER EXISTING ACCESS DRIVES OR TRAILS. FOLLOWING COMPLETION OF DEWATERING ACTIVITIES, DISTURBED AREAS SHALL BE RESTORED TO PRE-DISTURBANCE CONDITIONS.

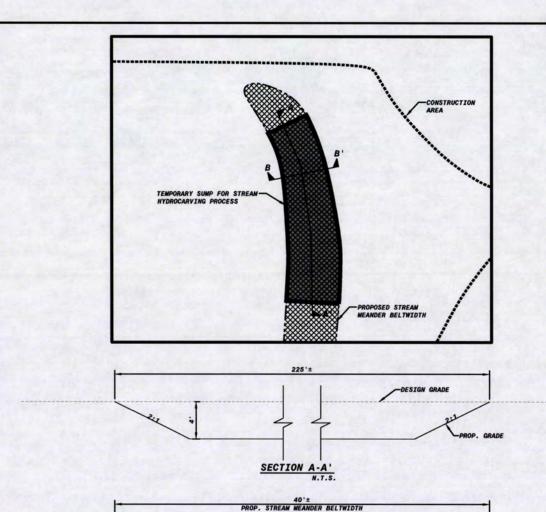
STALLION

HAMMOCK

BOYETTE



NSH1020A



TEMPORARY SEDIMENT SUMP DETAIL

SECTION B-B'

St	allion Hammocl	k Preserve Large	Woody Debr	ris Specificat	ions Table	The same
Habitat Amendment Type	Number of Amendments to be Installed	Installation Location	Materials	Diameter (in)	Length (ft)	Quantit
	12	To be installed at determined locations along streambed	Wood log	6-10	16±2	24
V-log Weir			Coir or natural log footer	6-10	18 ± 2	12
			Rebar or duckbill anchor	N/A	N/A	24
Random Large Woody Debris	58	To be installed randomly along stream at approximate density of 3 per 100 LF	Wood log	4-12	4-10	58
			Rebar or duckbill anchor	N/A	N/A	116
Root Wad	10	To be installed on outer bank at determined locations	Root wad	12" minimum	5' minimum trunk for keying into bank	10

- NOTES:

 1. LOGS MEETING SPECIFICATIONS FOR LARGE WOODY DEBRIS (LWD) TO BE SALVAGED DURING CLEARING ACTIVITIES.

 2. SUMP TO BE INSTALLED PRIOR TO COMMENCEMENT OF HYDRAULIC CARVING.

 3. LOGS TO BE TEMPORARILY STOCKPILED IN SEVERAL PILES SCATTERED ALONG THE CONTOURED STREAM VALLEY'S MEANDER BELT PRIOR TO HYDRAULIC CARVING. THIS INDUCES LARGE MEANDERS DURING HYDRAULIC CARVING.

 4. LOGS TO BE PERMANENTLY INSTALLED APPROXIMATELY 4 TO 8 WEEKS INTO HYDRAULIC CARVING, PER SPECIFICATIONS AS V-LOG WEIRS, ROOT WADS, AND RANDOM DEPLOYMENTS AT LOCATIONS TO BE APPROVED BY THE ENGINEER.

 5. HYDRAULIC CARVING TO CONTINUE AT LEAST 2 WEEKS SUBSEQUENT TO LWD INSTALLATIONS.
- INSTALLATIONS.
- INSTALLATIONS.
 HYDRAULIC CARVING IS REQUIRED FOR 5 DAYS PER WEEK, UP TO 12 WEEKS TOTAL.
 CONTRACTOR MAY CEASE CARVING ONCE CHANNEL DIMENSIONS SHOWN IN THE
 PLAN ARE ACHIEVED ALONG THE ENTIRE VALLEY OR UPON 12 WEEKS OF PUMPING
 (AT LEAST 60 12-HOUR DAYS), WHICHEVER OCCURS FIRST.
 SUMP TO 8E FILLED AND CONTOURED TO MATCH ADJACENT GRADES AND CREATE
 CHANNEL CONTINUITY FROM THE CARVED CHANNEL TO THE PROJECT BOUNDARY
 STREAM. AFTER HYDRAULIC IS COMPLETED, SOME MECHANICAL CHANNEL
 CONSTRUCTION WILL BE NECESSARY TO CREATE CONNECTIONS BETWEEN THE
 LIMITS OF CARVING AND THE UPSTREAM AND DOWNSTREAM CHANNELS ADJACENT
 TO THE PROJECT AREA. CONNECTING CHANNELS TO MATCH BOUNDARY GRADES
 AND TO BE LINED BY TEMPORADE ROSIGNO CONTROL PRODUCT NORTH -AND TO BE LINED BY TEMPORARY ROLLED EROSION CONTROL PRODUCT NORTH + AMERICAN GREEN SC150BN BIONET, OR APPROVED EQUAL.
- FINAL CONNECTION TO OFFSITE WATERS TO OCCUR AFTER VEGETATION AND STABILIZATION, SUBJECT TO FDEP AND ENGINEER'S APPROVAL.

STALLION HAMMOCK RESTORATION STREAM RESTORATION HILLSBOROUGH COUNTY, BOYETTE -BALM DATE: 11/29/16 E DRAWE BY: J.A.KIEFER PROJECT THOI. : 590008.9 DATE! ORIDA 22

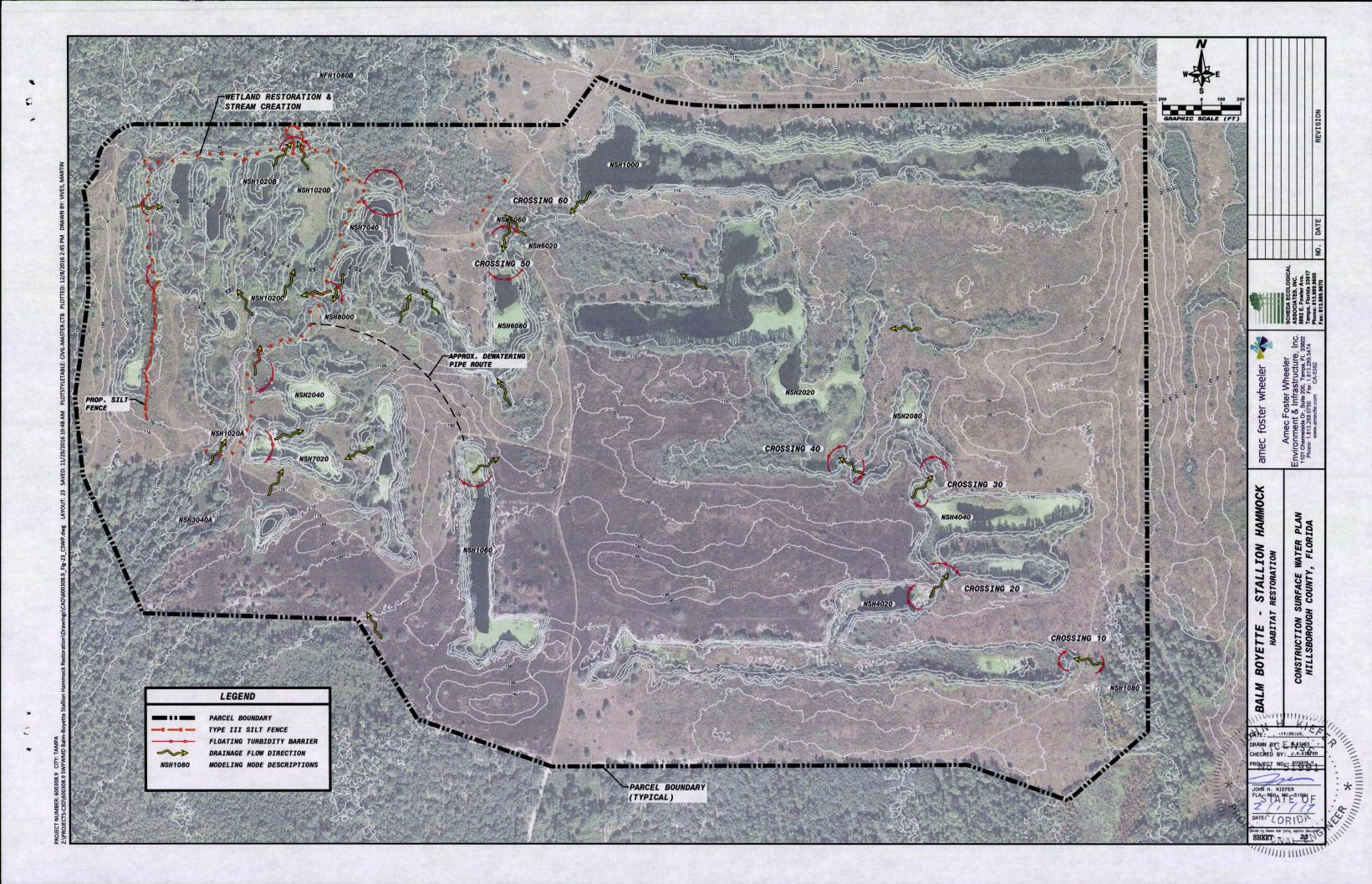
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DETAILS

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FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNIN OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

 CLEARING AND GRUBBING; EARTHWORK; AND STREAM HYDROCARVING FOR WETLAND RESTORATION AND STREAM CREATION. REMOVAL OF TEMPORARY STORMMATER DIVERSION BERMS, CHANNELS, AND PIPES; AND FINAL GRADING.

SOILS DATA: IN GENERAL, THE PROJECT AREA HAS BEEN DISTURBED DUE TO PREVIOUS MINING ACTIVITIES ON SITE AND CONSISTS OF SANDY SOILS.

OUTFALL 1: DOWNSTREAM END OF PROPOSED STREAM SEGMENT

OUTFALL 3: TEMPORARY STORMWATER DIVERSION DISCHARGE PIPES

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS.

DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN ON THE GRADING AND DRAINAGE DETAILS

AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE GRADING AND DRAINAGE AND TEMPORARY CONSTRUCTION DETAIL SHEETS.

AREAS NOT TO BE DISTURBED: AREAS LOCATED OUTSIDE OF THE WORK AREAS DEFINED WITHIN THE CONSTRUCTION PLANS SHALL NOT TO BE DISTURBED.

LOCATIONS OF TEMPORARY CONTROLS:
LOCATIONS OF TEMPORARY CONTROLS ARE INDICATED ON THE SWPPP SHEET AND ARE SUBJECT TO CHANGE AS CONSTRUCTION ACTIVITIES PROGRESS IN ORDER TO MAXIMIZE THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL.

LOCATIONS OF PERMANENT CONTROLS: LOCATIONS OF PERMANENT CONTROLS ARE INDICATED ON THE GRADING AND DRAINAGE DETAIL SHEETS AND SHALL BE CONSTRUCTED AS DEPICTED.

AREAS TO BE STABILIZED:
TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE
TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON
THE GRADING AND DRAININGS DETAIL SHEETS.

SURFACE WATERS: SEVERAL UNNAMED SURFACE WATERS EXIST WITHIN THE PROJECT AREA.

1.D. RECEIVING WATERS:
SEE ITEM 1.D. FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES

DISCHARGE POINTS TO SURFACE WATERS:
DISCHARGE POINTS TO SURFACE WATERS CORRESPOND TO THE LOCATIONS OF
EXISTING AND PROPOSED DRAINAGE CULVERTS.

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED PLAN. THE CONTRACTOR SHALL MODIFY THE PLAN TO AGAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

STABILIZATION PRACTICES:
THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION PRACTICES
PROPOSED TO CONTROL EROSION. EXISTING VEGETATION SHALL BE PRESERVED
WHERE ATTAINABLE. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION
MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN
PROPOSED THE STEE MUSE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY

MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARIL OR PERMANENTLY CEASED. A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES THE MEMORATILY OF A RECORD OF THE DATES WHEN MAJOR GRADING THE PROPERTY OF THE PROPERTY OF THE STEE AND WHEN STRAILIZATION OF THE SITE AND WHEN STRAILIZATION WAS ASSESSED THE STRAILIZATION OF THE STEE AND WHEN STRAILIZATION THE STRAILIZATION PRACTICES SMALL INCLUDED IN THE CONTRACTOR'S PLANTIFIES THE STRAILIZATION PRACTICES SMALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LOCATION: 27°47'00.08"N, 82°12'59.45"W EST. DRAINAGE AREA SIZE: 944.6± AC. RECEIVING WATER NAME: FISHHAWK CREEK

OUTFALL 2: CROSSING 60 DISCHARGE PIPES

LOCATION: 27°46'59.43"N, 82°12'49.61"W EST. DRAINAGE AREA SIZE: 944.6± AC. RECEIVING WATER NAME: FISHHAWK CREEK

LOCATION: 27°47'00.08"N, 82°12'55.97"W EST. DRAINAGE AREA SIZE: 944.6± AC. RECEIVING WATER NAME: FISHHAWK CREEK

STORMWATER POLLUTION PREVENTION PLAN NARRATIVE

PERMANENT STABILIZATION PRACTICES MAY INCLUDE:
SEEDING, MULCHING, GEOTEXTILES, VEGETATIVE BUFFER STRIPS,
PRESENVATION OF MATURE VEGETATION, SOO, AND OTHER APPROPRIATE
MEASURES.

STRUCTURAL PRACTICES:
THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL ON TRAP SEDIMENT AND OTHERRISE PREVENT THE DISCHARGE OF POLLUTARIS FROM EMPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL USFREAM OF THE CONTROL. STRUCTURAL BMPS SHALL BE PLACED ON UPLAND SOILS UNLESS A SPECIFICALLY AUTHORIZED THOOGH APPLICABLE DEP OR WHO PERMITS. THE STRUCTURAL PRACTICES SHALL INCLUSE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY STRUCTURAL PRACTICES MAY INCLUDE: SILT FENCE, EARTH DIRES, DIVERSIONS, SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSINGANCE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STOMMORAIN THLET PROTECTION, ROCK OUTLET PROTECTION, COAGULATING AGENTS, SEDIMENT BASINS, AND OTHER APPROPRIATE MEASURES.

PERMANENT STRUCTURAL PRACTICES MAY INCLUDE: SWALES, LEVEL SPREADERS, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, SEDIMENT BASINS, AND OTHER APPROPRIATE

REASURES.

REASURES.

A. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR FOULTWALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINAGE WITH ITAMAL STABILIZATION OF THE SITE.

FOR DRAINAGE BASINS OF LESS THAN 10 ACRES, SEDIMENT BASINS AND IOR SEDIMENT TRAPS ARE RECOMMENDED BUT NOT RECURED.

C. AMEAS THAT WILL BE USED FOR PERMANENT STORMMATER INFILTRATION THEATMENT (STORMMATER HEREITION POROS) SHOULD NOT BE USED FOR PERMANENT STORMMATER INFILTRATION TO ASSURE REMOVAL OF ACCUMULATED FIRE SEDIMENTS, WHICH MAY CAUSE PREMATURE CLOGGING AND LOSS OF INFILTRATION CAPACITY, AND TO ANDID EXCESSIVE COMPACTION OF SOILS BY CONSTRUCTION MACHINERY OR EQUIPMENT.

PERMANENT STORMMATER MANAGEMENT CONTROLS: SEVERAL DRAINAGE CULVERTS WILL BE CONSTRUCTED TO CONVEY RUNOFF THROUGH THE PROJECT AREA. THE DRAINAGE SYSTEM HAS BEEN DESIGNED TO COMPLY WITH APPLICABLE DESIGN STANDARDS OF THE SOUTHMEST FLORIDA WATER MANAGEMENT

2.C. CONTROLS FOR OTHER POTENTIAL POLLUTANTS:

WASTE DISPOSAL:
IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL
DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID
MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED
STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING,
UNLESS OTHERMISE APPROVED BY THE ENGINEER:

PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
DISPOSING OF ALL FERTILIZER OR OTHER CHEWICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
DISPOSING OF SOLID MATERIALS INCLIDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL
DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFF-SITE VEHICLE
TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS
SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY
THE ENGINEER.

COVERING LOADED HAUL TRUCKS WITH TARPAULINS.
REMOVING EXCESS DIRT FROM ROADS DAILY,
STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD TUG.
USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:
HE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER ON SEPTIC SYSTEMS.

FERTILIZERS AND PESTICIDES: THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE FDOT STANDARD

TOXIC SUBSTANCES AND HAZARDOUS MATERIALS:
 THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES AND
 HAZARDOUS MATERIALS (INCLUDING FUEL) THAT ARE LIKELY TO BE USED ON
 THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION,
 MIGRATION, STONAGE, AND DISPOSAL OF THESE SUBSTANCES.

3.A. THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

SILT FENCE: MAINTAIN PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.

SEDIMENT BASINS: REMOVE SEDIMENT FROM TEMPORARY SEDIMENT BASINS WHEN THE SEDIMENT BECOMES 1.5' DEEP AT ANY POINT IN THE BASIN. AT A MINIMUM, TEMPORARY SEDIMENT BASINS SHALL BE MAINTAINED UNTIL THE AREAS THAT DRAIN TO THEM ARE STABILIZED.

4.A. QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAMES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, THOSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMMATER

1. POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

2. POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.

3. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED

4. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

5. STRUCTURAL CONTROLS

6. STORMWATER MANAGEMENT SYSTEMS.

7. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

4.A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISAMBRING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

4.B. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION; NAMES(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION; THE DATE(S) OF THE INSPECTION; RAINFALL DATA; AND MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORMMATER POLLUTION PREVENTION PLAN SHALL BE MADE AND METAINED BY THE CONTRACTOR.

5.0 NON-STORMWATER DISCHARGES:

THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMMATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTIMS ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLUTION OF THESE NON-STORMMATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

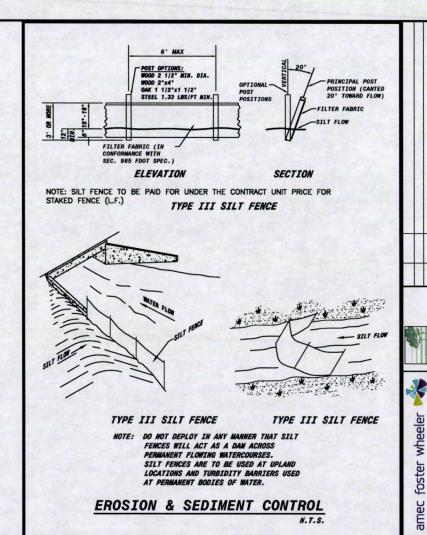
6.0 CONTRACTOR ISURCONTRACTOR CERTIFICATION

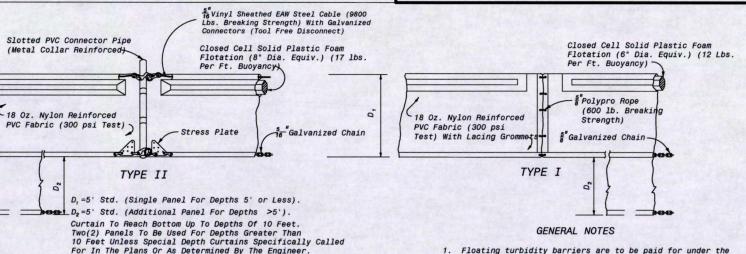
6.A. ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A COPY OF THE CERTIFICATION STATEMENT IN PART V.D.6.b. OF THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR STORMMATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.

6.A. THIS PLAN SHALL BE AMENDED WHENEVER THE PROJECT IS ALTERED OR MODIFIED IN A MANNER THAT WILL RESULT IN: (1) THE POTENTIAL DISCHARGE OF POLLUTANTS, (2) A CHANGE IN THE AMBRIET OF DISCHARGE, (3) A CHANGE IN THE MUMBER OR LOCATION OF STORMMATER DISCHARGE POINTS, OR (4) ADVERSE IMPACTS TO WETLANDS, AND SUCH CHANGE (5) HAVE NOT OTHERWISE BEEN PREVIOUSLY ADDRESSED IN THE APPROVED PLAN. THIS PLAN SHALL BE AMENDED IF ITS IMPLEMENTATION DOES NOT ELIMINATE OR MINIMIZE EROSION AND SEDIMENT DEPOSITION, OFF-SITE FLOODING, ADVENDMENTS TO THE PLAN SHALL BE PREPARED AND REPT AS SEPARATE DOCUMENTS ALONG WITH THE ORIGINAL PLAN. ALL ALTERATIONS TO THE SYSTEM MIST BE SKOWN ON THE AMENDED PLAN ALONG WITH THE ORIGINAL PLAN.

NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS.

ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE
RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE





1. Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.

2. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

FLOATING TURBIDITY BARRIERS

	PROJECT NO : 600308091
OWNER CERTIFICATION	m
EAD THE NOTES AND REVIEWED THE PLANS AND I PROPOSE TO PLEMENT EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION	JOHN H. KIEFER FLA. REG. NO. 61990 F
	DATE: FLORIDA

I HAVE PROPERLY I SIGNATURE SHEET /7 NA 24 PRINTED NAME

PLAN DETAILS FLORIDA

COUNTY, I

RUCTION SURFA HILLSBOROUGH

CONS

11/22/16 CHECKED BY: J.H.KTEFER

(1111111)

THE * THE WALLER AND THE STREET

HAMMOCK

STALLION

BOYETTE

BALM

TEMPORARY STABILIZATION PRACTICES MAY INCLUDE: ARTIFICIAL COVERINGS, TURF, SEEDING, SOD, AND OTHER APPROPRIATE

2.0 CONTROLS: