Site Plans

Date Issued: November 15, 2012

Latest Issue: January 14, 2013

Sheet Index				
Number	Drawing Title	Latest Issue		
001	Aerial	1/14/2013		
002	Mitigation Plan	1/14/2013		
003	Best Management Practices Plan	1/14/2013		
004	Grading Sections	1/14/2013		
005	Planting Details and Sections	1/14/2013		
006	Site Details	1/14/2013		

Wares Creek / Cedar Hammock Flood Control Project

Manatee County, Florida

Parcel ID: 2387400001



Property Owners

Owner:

State of Florida / State Lands Division

3900 Commonwealth Boulevard, M.S. 100 Tallahassee, Florida 32399

Phone: 850.245.2555 · Fax: 850.245.2572

Project Manager: **AECOM** 5971 CattleRidge Road, Suite 200 Sarasota, Florida 34232 Phone: 941.377.8858 - Fax: 941.371.2569

Environmental Services: Vanasse Hangen Brustlin, Inc. 8043 Cooper Creek Boulevard, Suite 201 University Park, Florida 34201 Phone: 941.351.8986 · Fax: 941.355.8673



Vanasse Hangen Brustlin, Inc.

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Manatee County, Florid Issued for:





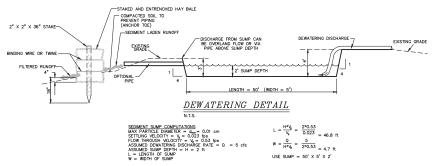
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2	Addition of MOT			01/14/2013	
1	Issued for review purposes		oses	11/15/201	
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Sode 1" = 30" Date November 15, 2012 Project Time Wares Creek/Cedar Hammock Flood Control Project Proposed Mitigation Site Section 7, Township 34 South, Range 17 East Emerson Point Park, Manatee County, Florida

Drawing Title Aerial



DEWATERING NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR DEVELOPING A CONSTRUCTION DEWATERING PLAN AND OBTAINING AGENCY APPROVALS AS NEEDED.
- 3. SEDIMENT SUMPS AND DISCHARGE EROSION CONTROL ARE TO BE IMPLEMENTED BEFORE ANY DEWATERING ACTIVITIES OR EARTHWORK CONSTRUCTIONS BY EVERYOMENTAL CONSULTANT SHALL BE PERDOCACHLY PERFORMED ON THE DEWATERMO STSTEM.
 STORMMATER TREATMENT FACILITIES INCLUDING OUTFALLS PER DETAIL ARE TO BE CONSTRUCTED ATTER SEDIMENT SUMPS.
- SUMP SIZE BASED UPON MAXIMUM DEWATERING DISCHARGE OF 5 cfs. CONTRACTOR IS TO NOTIFY ENGINEER IF GREATER DISCHARGE IS PROPOSED SO SUMP SIZE CAN BE RECALCULATED PER SWFWMD SECTION 3.2.4.6.
- DEWATERING WITHDRAWALS ARE TO BE FROM THE TOP OF THE WATER AREAS TO ALLOW FOR THE ADEQUATE SETTLING OF PARTICLES AND INSURE WATER QUALITY.
- CONTRACTOR IS TO NOTIFY SWEWAID AND ENGINEER OF ANY MODIFICATIONS PROPOSED BY THE CONTRACTOR TO THE DEWATERING PLAN. CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF ANY REQUIRED PLANS AND PROCESSING OF SAME.
- DISCHARGE FROM SUMPS SHOULD MAXIMIZE OVERLAND FLOW PRIOR TO ENTERING OUTFALL. STAKED HAYBALES OR EQUIVALENT WILL BE USED TO MINIMIZE SILATION RUNGET, CONTRACTOR IS RESPONSIBLE FOR UTILIZING ADEQUATE HAYBALES OR EQUIVALENT AT DISCHARGE LOCATIONS TO PREVENT SOUDRING.
- 9. THE EXPECTED DURATION OF THE DEWATERING PROCESSES IS APPROXIMATELY 90 DAYS, WHICH WILL NOT REQUIRE A WATER USE FERMIT. DEWATERING ACTIVITIES EXCEEDING 120 DAYS SHALL REQUIRE A WATER USE PERMIT AND WILL BE THE CONTRACTOR'S RESPONSIBILITY.

NOTES:

- PRIGE TO AUTHRIZATION OF CONSTRUCTION AND/OR LAND. CLEARING ACTIVITIES, AMMATIES COUNTY SHALL COMPULCT TWO SEPARATE FIELD VERIFICATIONS. THE FIRST IS TO INCIPITY THAT THE EROSION AND SEDIMENT CONTROL (ESC) MEASURES ARE STAKED CORRECTLY. THE SECOND SHALL BE TO VERIFY THAT THE ESC DEVICES HAVE BEEN INSTALLED CORRECTLY.
- 2. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS REVENT THE APPLICATION OF THESE STANDAROS OR THE PROFRESSION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN CHARGE IMMEDIATELY AND PRIOR TO ANY FURTHER CONSTRUCTION ACT
- SITE HORIZONTAL CONTROLS AND TOPOGRAPHIC DATA BASED ON SWFWMD DOCUMENTS DATED FEBRUARY, 2005. (NGVD 1929 VERTICAL DATUM)
- MITIGATION GRADING LIMITS FIELD-ADJUSTED TO AVOID EXISTING TREE REMOVAL, AS DIRECTED BY MANATEE COUNTY NATURAL RESOURCES REPRESENTATIVES.
- 5. THE CONTRACTOR SHALL PREPARE AND PROCESS THE NATIONAL POLLUTANT DISCHARCE ELIMINATION SYSEM (NPDES), NOTICE OF INTENT (NO) AND NOTICE OF TERMINATION (NOT). THE NPDES PERMIT SHALL BE OBTAINED AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR RESPONSIBLE TO MONITOR AND COMPLETE ALL REQUIRED INSPECTION/MAINTENANCE/INCIDENT REPORTS AS DICTATED IN THE SWPPP GUIDELINES.

CONSTRUCTION SEQUENCING:

6) MITIGATION PLANTING.

ESTABLISH BEST PRACTICE MEASURES INCLUDING INSTALLATION OF EROSION CONTROL DEVICES (SILT SCREENING, SEDIMENT LOGS, FLOATING TURBIDITY BARRIERS AND INTERIM TIDAL BLOCKS).

MOBILIZATION INCLUDING CONSTRUCTION OF STAGING AREA, SITE ACCESS AND CONSTRUCTION SIGNAGE

BACKFILLING EXISTING POND & EXCAVATION OF PROPOSED MITIGATION AREA.

5) CONFIRMATION OF ELEVATIONS AND AREA OF PLANTING ZONES.

7) CONSTRUCTION RESTORATION INCLUDING STAGING

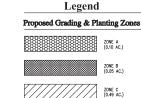
AREA, HAULING ACCESS, INGRESS/EGRESS ROUTE & REMOVAL OF INTERIM TIDAL BLOCKS & BEST MANAGEMENT EROSION CONTROL DEVICES.

DEWATERING OF EXISTING POND AND SITE CLEARING.

- PROJECT CONSTRUCTION INGRESS/EGRESS OF EQUIPMENT, MATERIAL HAULING, DELIVERIES, EQUIPMENT MANITENANCE AND OTHER PROJECT SUPPORT ACTIVITIES TO BE MUNTED TO THE PARKS ACCESS ROAD. USE OF THE EMSTING PEDESTRIAN TRAVELINAY IS PROHIBITED (EXCLUDING THE PROTECTIOE STAGING AREA ACCESS POINT).
- 8. CONTRACTOR TO AVOID CONSTRUCTION ACTIVITY WITHIN THE DESIGNATED UPLAND PRESERVATION AREA WITH THE EXCEPTION OF THE INSTALLATION OF EROSION CONTROL.
- UPON CONSTRUCTION COMPLETION, CONTRACTOR TO DISMANTLE BIODEGRADABLE MATERIAL FROM SEDIMENT LOGS AND DISTRIBUTE WITHIN UPLAND AREAS. ANY NON-BIODEGRADABLE MATERIAL TO BE DISPOSED OF PROPERLY.
- A PRE-CONSTRUCTION MEETING TO OCCUR TO COORDINATE EXOTIC/NUISANCE VEGETATION REMOVAL AND MAINTENANCE REQUIREMENT DURING CONSTRUCTION.
- A POST-CONSTRUCTION REVIEW TO BE CONDUCTED BY VHB TO CONFIRM THE ABSENCE OF EXOTIC/NUISANCE VEGETATION.
- 12. THE CONTRACTOR SHALL SUBMIT 3 COPIES OF CERTIFIED SET OF RECORD DRAWINGS TO VHB SHOWING THE AS-BUILT SURVEY FOR THE PROPOSED GRADING. THE AS-BUILT SURVEY TO INCLUDE SPOT ELEVATIONS AT TOP OF BANK, GRADE BREAKS, TOE OF SLOPE AND PLANTING LIMITS.

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Wares Creek/Cedar Hammock Flood Control Project

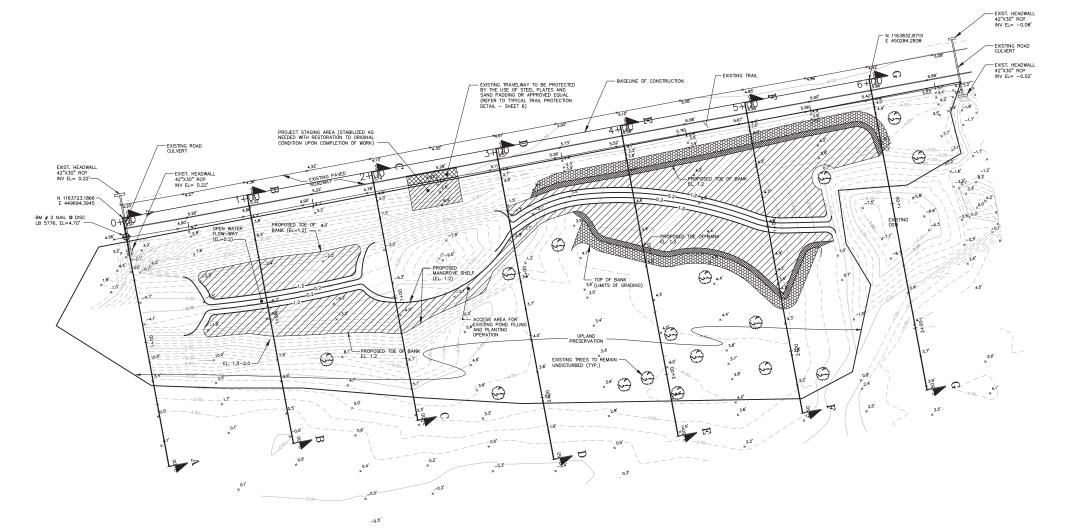
Proposed Mitigation Site Section 7, Township 34 South, Range 17 East Emerson Point Park, Manatee County, Florida

Best Management

SEL JCENSE Rradtides/Plan

Drawing Title

CENSE Mo. 32052 Muspro 002 STATE OF の**93/06/13** NA 13 ////



PLANT MATERIAL AND INSTALLATION:

- PLANT MATERIAL AND INSTALLATION:

 1) PLANTING CONTRACTOR SHALL INSPECT PLANTING ZONES PRIOR TO PLANT INSTALLATION FOR SUITABILITY OF SUBSTRATE AND SPECIES TO BE INSTALLED.

 2) PLANTING MATERIAL SHALL CONFORM TO FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, DIVISION OF PLANT INDUSTRY GRADES AND STANDARDS FOR WETLAND PLANTS (FEBRUARY 1998).

 3) ALL PLANT MATERIAL WILL BE INSPECTED BY MANATEE COUNTY'S DESIGNEE UPON DELIVERY TO THE PROJECT SITE. UNSATISFACTORY MATERIAL SHALL BE REJECTED. AND REPLACED BY THE CONTRACTOR AT NO COST TO MANATEE COUNTY.

 4) PLANTING AREAS WILL BE SUFFICIENTLY STABILIZED AND COMPACTED AS SUITABLE FOR INSTALLATION AND GROWTH OF PLANT MATERIAL.

 5) CONTRACTOR SHALL TAKE DUE CARE WHILE INSTALLING PLANT MATERIAL TO PREVENT DAMAGE TO ROOT—BALLS, FOLIAGE AND LIMBS.

- PREVENT DAMAGE TO ROOT-BALLS, FOLIAGE AND LIMBS.

 OCNTRACTOR SHALL BE RESPONSIBLE FOR STABILITY OF PLANTINGS THROUGHOUT THE GUARANTEE PERIOD AND SHOULD BE PREPARED TO STAKE THE MANGROVE TREES AS NECESSARY.

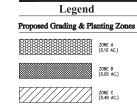
 CONTRACTOR SHALL GUARANTEE 95% SURVIVORSHIP OF ALL PLANT MATERIAL FROM A PERIOD OF 90 DAYS FOLLOWING FINAL COMPLETION INSPECTION.

 THE PLANTING AREAS WILL BE SUBJECT TO PERIODIC INSPECTION BY MANATEE COUNTY. A FINAL COMPLETION INSPECTION OF PLANTINGS AND MAINTEMANCE WILL BE CONDUCTED TO ENSURE THAT ALL MATERIAL HAS BEEN INSTALLED AS SPECIFIED AND IN THE QUANTITIES REQUIRED.

- 1) REFER TO SHEET 2 OF 6 FOR BEST MANAGEMENT PRACTICES PLAN.
- 2) REFER TO SHEET 4 OF 6 FOR GRADING SECTIONS.
- 3) REFER TO SHEET 5 OF 6 FOR MITIGATION PLANTING DETAILS.
- 4) REFER TO SHEET 6 OF 6 FOR SITE DETAILS.

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Wares Creek/Cedar Hammock Flood Control Project

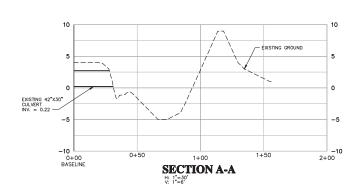
Proposed Mitigation Site Section 7, Township 34 South, Range 17 East Emerson Point Park, Manatee County, Florida

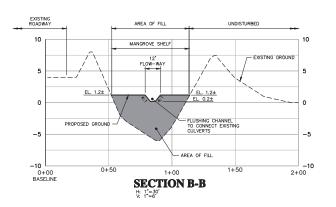


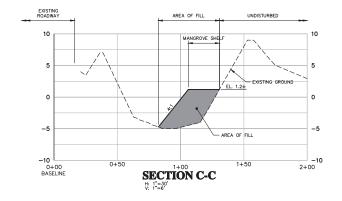


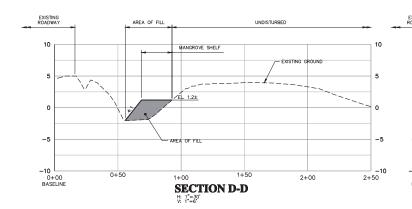
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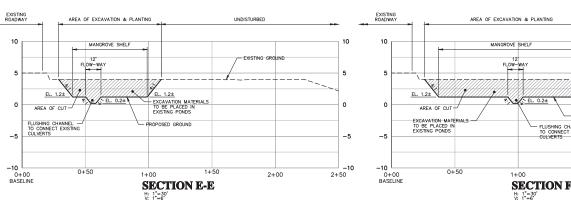
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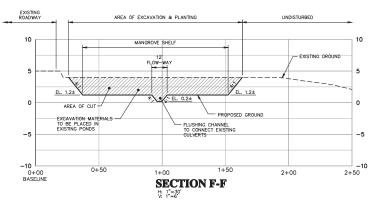


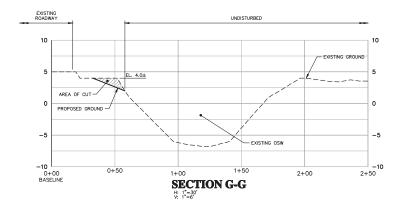














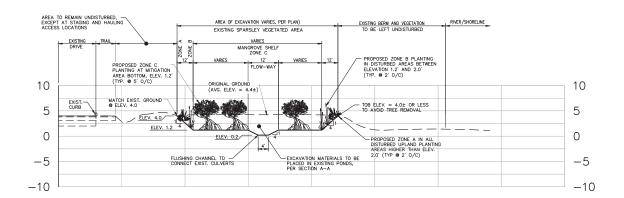
Project Title Wares Creek/Cedar Hammock Flood Control Project

Proposed Mitigation Site Section 7, Township 34 South, Range 17 East Emerson Point Park, Manatee County, Florida

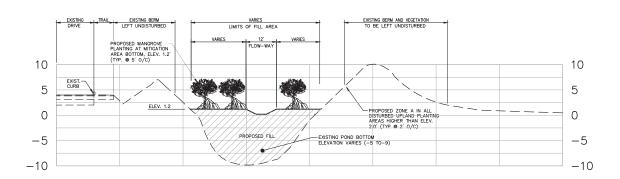
Drawing Title Grading Sections VEJ.SHROLL CENSE S 103/06/13

Mitigation Planting Schedule							
Zone	Elevation	Area (sq. feet)	Species ¹	Common Name ¹	OC ² Spacing	Size	Plant No
Zone A	2.0 - 4.0	2,180	Sportina bakeri Sportina patens	Sand cordgrass Saltmeadow cordgrass	У	Quart Equivalent	243
Zone B	1.2 - 2.0	4,356	Distichlis spicota Sportina alterniflora	Saltgrass Smooth cordgrass	2'	2" Plug	1090
Zone C	1.2	21,350	Rhizophora mangle	Red Mangrove	5'	1 Gallon	854

Plant Nomendature - USDX Natural Restures Conservation Service Plants Database On-Center Specime



Typical Mitigation Section (Upland Excavation)



Typical Enhancement Section (Existing Pond)

Source:



Legend

SAND CORDORASS/ SALT MEADON CORDORASS SALTORASS/ SMOOTH CORDORASS OTES:

ALL PLANTS TO BE INSTALLED SO AS TO CREATE A NATURAL GROWTH APPEARANCE.
 DUE TO VARIBLE FIELD CONDITIONS, EXACT LOCATIONS OF PROPOSED VEGETATION SHALL BE DETERMINED DURING INSTALLATION.

Source: VHB

Typical Wetland Species

1"=60'



Saltgrass: (Distichlis spicata)

Γ.S. Source: University of Florido



Sand Cordgrass: (Spartina bakeri)

S. Source



Red Mangrove: (Rhizophora mangle)

Source: University of I



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NOTES

- EXOTIC/NUISANCE VEGETATION HAS PREVIOUSLY BEEN REMOVED FROM ALL UPLAND PORTIONS OF THE SITE. CARE SHALL BE TAKEN TO PRESERVE ALL NATIVE VEGETATION OUTSIDE THE LIMITATIONS OF CONSTRUCTION.
- AREAS WHERE NO ENHANCEMENT IS PROPOSE
 CONTAIN EXISTING NATIVE VEGETATION WHICH
 SHALL REMAIN IN AN LINAL TERFO. CONDITION
- THE COUNTY MAY SUBSTITUTE OTHER PLANT MATERIAL SPECIES FOR THOSE IDENTIFIED, AS CONDITIONS WARRANT.



Wares Creek/Cedar Hammock Flood Control Project

Proposed Mitigation Site Section 7, Township 34 South, Range 17 East Emerson Point Park, Manatee County, Florida

Drowing Title

Planting Details and
Sections

Sections

Allo. 3205

Allo. 3205

STATE OF

Stave Shroyer

Froger Number

C5726.00

Froger Number

C5726.00

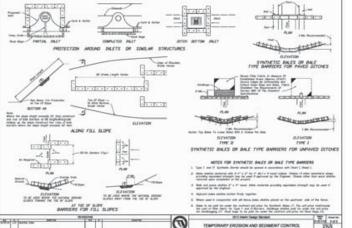
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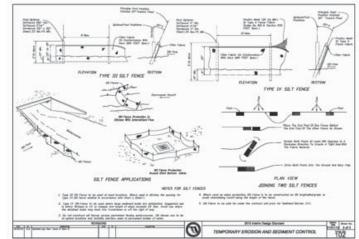
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Typical Trail Protection Detail



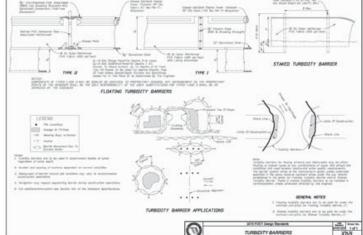
Note:
To avoid vegetation and archaeological damage, silt fencing not to be used in areas calling for Sediment Logs only (e.g. along southern boundary).

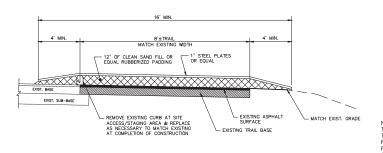


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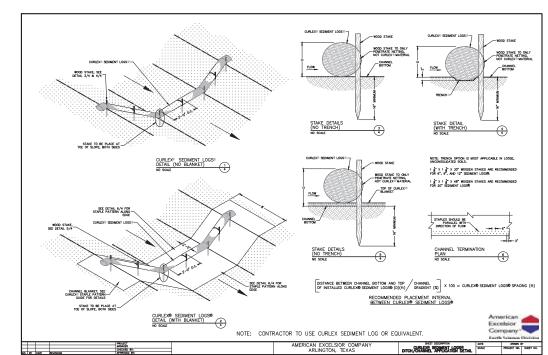
Land Development

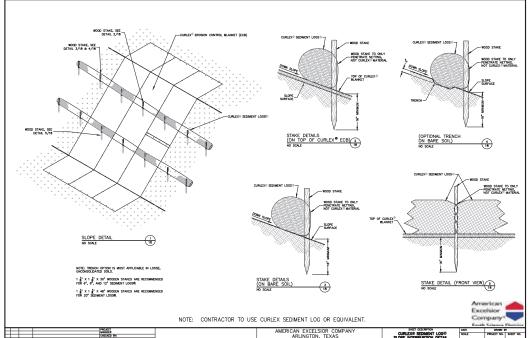
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NOTE:
THE PROTECTION OF THE EMERSON POINT PRESERVE ACCESS ROAD AND BIKE
TRAIL IS CRITICAL. TO MINIMIZE ANY POTENTIAL ADVERSE IMPACTS TO THIS
ROADWAY SYSTEM AND TO MINIMIZE THE TRAFFIC GENERATED BY THIS
PROJECT, THE CONTRACTOR WILL PROVIDE A MAINTENANCE OF TRAFFIC PLAN
(MOT), PREPARED BY A CERTIFIED MOT ENGINEER, SUBJECT TO APPROVAL BY
MANATEE COUNTY AND THE PROJECT ENGINEER.





01/23/08



Wares Creek/Cedar Hammod Flood Control Project Proposed Mitigation Site

Section 7, Township 34 South, Range 17 East Emerson Point Park, Manatee County, Florida

Drowing Title

Site Details,
E.J. SHR

CENSE

NO. 32057

STATE OF

Steve Shroyer

PERIODES

State Of

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