Memorandum

MIAMI-DADE COUNTY

Date: September 1, 2009

Agenda Item No. 5(C)

To: Honorable Chairman Dennis C. Moss and Members, Board of County Commissioners

From: George M. Burgess
County Manager

Subject: Class I Permit Application by the City of Miami Beach for the Excavation of One Hundred Twenty-Five (125) Cubic Yards of Upland Sediment and Nine (9) Cubic Yards of Sediment Below the Mean High Water Line to Create a Public Kayak Launch at Pinetree Park on the Indian Creek Waterway

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Attached, please find for your consideration an application by the City of Miami Beach for a Class I permit. Also attached is the recommendation of the Director of the Department of Environmental Resources Management and a resolution seeking the Board's approval of the aforesaid Class I permit.

Assistant County Manager

Memorandum

MIAMI-DADE COUNTY

Date: September 1, 2009

To: George M. Burgess
County Manager

From: Carlos Espinosa, PE, Director
Environmental Resources Management

Subject: Class I Permit Application by the City of Miami Beach for the Excavation of One Hundred Twenty-Five (125) Cubic Yards of Upland Sediment and Nine (9) Cubic Yards of Sediment Below the Mean High Water Line to Create a Public Kayak Launch at Pinetree Park on the Indian Creek Waterway

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Recommendation

I have reviewed the attached Class I permit application by the City of Miami Beach. Based upon the applicable evaluation factors set forth in Section 24-48.3 of the Code of Miami-Dade County (Code), Florida, I recommend that the Board of County Commissioners (BCC) approve the issuance of a Class I permit for the reasons set forth below.

Scope

The project site is within Pinetree Park located at 4493 Pinetree Drive in Miami Beach, Miami-Dade County, located in Commission District 4 (Comm. Heyman).

Fiscal Impact/Funding Source

Not applicable.

Track Record/Monitor

Not applicable.

Background

The subject Class I permit application by the City of Miami Beach involves the dredging of tidal waters and the excavation of the adjacent uplands in order to create a kayak launch within Pinetree Park, located at 4493 Pinetree Drive in Miami Beach, Miami-Dade County, Florida. The proposed project is required to be reviewed and approved by the Miami-Dade County BCC at a public hearing because the scope of work includes the excavation of upland sediment and the dredging of sediment below the mean high water line (MHWL). Said work is not specifically referenced in Section 24-48.2 of the Code as work that can be processed administratively with a short form application. Therefore, a standard form application including a public hearing is required.

The site consists of a public park adjacent to the Indian Creek Waterway with seven hundred (700) linear feet of shoreline. The applicant is proposing to excavate a kayak launch beginning seven and one half (7.5) feet from the north property line. The kayak launch is proposed to be dredged to a maximum depth of minus two (-2) feet National Geodetic Vertical Datum. Both sides of the proposed kayak launch will be stabilized with a vinyl sheet pile wall and limerock riprap boulders. The proposed work involves the excavation of one hundred twenty-five (125) cubic yards of upland sediment immediately adjacent to the bay and nine (9) cubic yards of sediment below the MHWL, resulting in the excavation of three thousand four hundred (3,400) square feet of uplands and one hundred seventy

(170) square feet of substrate below the MHWL. The ramp will be lined with coarse, crushed shell sand and pea rock, which will be covered with a geotextile mat to reduce water quality impacts and prevent the material from eroding.

Pursuant to Section 24-48.4 of the Code, potential adverse environmental impacts and cumulative adverse environmental impacts for a proposed project must be avoided and minimized. Mitigation is required to compensate for all unavoidable, adverse environmental impacts. Sparse macroalgae and submerged aquatic vegetation were documented in the area of the proposed excavation below the MHWL. As such, mitigation for impacts associated with the excavation and the installation of the vinyl sheet pile wall shall be required prior to permit issuance. As mitigation for the aforesaid impacts, fifty-nine (59) cubic yards of limerock riprap boulders are required. As it is not feasible to place the riprap at the site due to site conditions, the Miami-Dade County Department of Environmental Resources Management (DERM) has agreed to accept a contribution to the Biscayne Bay Environmental Enhancement Trust Fund in the amount of $5,310. The applicant has also proposed to remove all exotic vegetation in order to enhance the park's shoreline.

The proposed project is not located within an area identified by the Miami-Dade County Manatee Protection Plan as essential manatee habitat for *Trichechus manatus* (West Indian Manatee). However, to reduce potential impacts to manatees traversing the area, the proposed launch is to be used exclusively for non-motorized vessels such as kayaks and canoes.

The proposed project has been designed in accordance with all relevant Miami-Dade County coastal construction criteria and is consistent with all other Miami-Dade County coastal protection provisions. Please find attached a DERM Project Report which sets forth the reasons the proposed project is recommended for approval by DERM pursuant to the applicable evaluation factors set forth in Section 24-48.3 of the Code. The conditions, limitations, and restrictions set forth in the Project Report attached hereto are incorporated herein by references hereto.

Attachments

Attachment A: Class I Permit Application
Attachment B: Affidavit of Ownership and Hold Harmless Agreement
Attachment C: Permit Applicant/Authorized Agent Statement, Engineer Letter of Certification, Project Plans
Attachment D: Zoning Memo
Attachment E: Names and Addresses of Owners of All Riparian or Wetland Property Within Three Hundred (300) Feet of the Proposed Work
Attachment F: Florida Department of Environmental Protection Proprietary Authorization
Attachment G: Spoil Management and Turbidity Control Plans
Attachment H: Project Report

NOTICE OF PUBLIC HEARING ON AN APPLICATION BY THE CITY OF MIAMI BEACH FOR A CLASS I PERMIT FOR THE EXCAVATION OF ONE HUNDRED TWENTY-FIVE (125) CUBIC YARDS OF UPLAND SEDIMENT AND NINE (9) CUBIC YARDS OF SEDIMENT BELOW THE MEAN HIGH WATER LINE TO CREATE A PUBLIC KAYAK LAUNCH AT PINETREE PARK ON THE INDIAN CREEK WATERWAY, LOCATED AT 4493 PINE TREE DRIVE, MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA

BOARD OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA

NOTICE IS HEREBY GIVEN pursuant to Article IV, Division 1 of Chapter 24 of the Code of Miami-Dade County that the Board of County Commissioners of Miami-Dade County will hold and conduct a Public Hearing on a request by the City of Miami Beach for a Class I permit for the excavation of one hundred twenty-five (125) cubic yards of upland sediment and nine (9) cubic yards of sediment below the mean high water line to create a public kayak launch at Pinetree Park located at 4493 Pinetree Drive, Miami Beach, Miami-Dade County, Florida. Such Public Hearing will be held on September 1, 2009 at 9:30 AM at the County Commission Chambers on the 2nd Floor of the Stephen P. Clark Center at 111 NW 1st Street in Miami, Florida.

Plans and details concerning the work requested in the application may be reviewed by interested persons at the office of the Miami-Dade County Department of Environmental Resources Management, 4th Floor, 701 NW 1st Court, Miami, Florida, 33136-3912.

Oral statements will be heard and appropriate records made. For accuracy of records, all important facts and arguments should be prepared in writing in triplicate, with two copies being submitted to the Deputy Clerk of the County Commission at the hearing or mailed to her beforehand (Diane Collins, Deputy Clerk), 111 NW 1st Street, Stephen P. Clark Center, Suite 17-202, Miami, Florida 33128; and with one copy being submitted beforehand to the Miami-Dade County Department of Environmental Resources Management, 4th Floor, 701 NW 1st Court, Miami, Florida, 33136-3912.

A person who decides to appeal any decision made by any Board, Agency, or Commission with respect to any matter considered at its meeting or hearing, will need a record of proceedings. Such person may need to ensure that a verbatim record of the proceedings is made, including the testimony and evidence upon which the appeal is to be based.

BOARD OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA

HARVEY RUVIN, CLERK

BY: _____
Diane Collins, Deputy Clerk

MEMORANDUM

(Revised)

TO: Honorable Chairman Dennis C. Moss and Members, Board of County Commissioners

DATE: September 1, 2009

FROM: R. A. Cuevas, Jr. County Attorney

SUBJECT: Agenda Item No.5(C)

Please note any items checked.

_____ **"4-Day Rule" ("3-Day Rule" for committees) applicable if raised**

_____ **6 weeks required between first reading and public hearing**

_____ **4 weeks notification to municipal officials required prior to public hearing**

_____ **Decreases revenues or increases expenditures without balancing budget**

_____ **Budget required**

_____ **Statement of fiscal impact required**

_____ **Bid waiver requiring County Mayor's written recommendation**

_____ **Ordinance creating a new board requires detailed County Manager's report for public hearing**

_____ **Housekeeping item (no policy decision required)**

✓ **No committee review**

5

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 5(C)
9-1-09

RESOLUTION NO. _____

RESOLUTION RELATING TO AN APPLICATION BY THE CITY OF MIAMI BEACH FOR A CLASS I PERMIT FOR THE EXCAVATION OF ONE HUNDRED TWENTY-FIVE (125) CUBIC YARDS OF UPLAND SEDIMENT AND NINE (9) CUBIC YARDS OF SEDIMENT BELOW THE MEAN HIGH WATER LINE TO CREATE A PUBLIC KAYAK LAUNCH AT PINETREE PARK ON THE INDIAN CREEK WATERWAY, LOCATED AT 4493 PINE TREE DRIVE, MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA

WHEREAS, this Board desires to accomplish the purposes outlined in the accompanying memorandum, a copy of which is incorporated herein by reference,

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board having considered all the applicable factors contained within Section 24-48.3 of the Code of Miami-Dade County, hereby approves the application by the City of Miami Beach for a Class I permit for the excavation of one hundred twenty-five (125) cubic yards of upland sediment and nine (9) cubic yards of sediment below the mean high water line to create a public kayak launch at Pinetree Park located at 4493 Pinetree Drive, Miami Beach, Miami-Dade County, Florida, subject to the conditions set forth in the memorandum from the Director of the Miami-Dade County Department of Environmental Resources Management, a copy of which is attached hereto and made a part hereof. The issuance of this approval does not relieve the applicant from obtaining all applicable Federal, State, and local permits.

The foregoing resolution was offered by Commissioner , who moved its adoption. The motion was seconded by Commissioner and upon being put to a vote, the vote was as follows:

Dennis C. Moss, Chairman
Jose "Pepe" Diaz, Vice-Chairman

Bruno A. Barreiro	Audrey M. Edmonson
Carlos A. Gimenez	Sally A. Heyman
Barbara J. Jordan	Joe A. Martinez
Dorrin D. Rolle	Natacha Seijas
Katy Sorenson	Rebeca Sosa
Sen. Javier D. Souto	

The Chairperson thereupon declared the resolution duly passed and adopted this 1st day of September, 2009. This resolution shall become effective ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.

MIAMI-DADE COUNTY, FLORIDA
BY ITS BOARD OF COUNTY
COMMISSIONERS

HARVEY RUVIN, CLERK

Approved by County Attorney as
to form and legal sufficiency. _____

By:_____
Deputy Clerk

Peter S. Tell

Attachment A
Class I Permit Application

MIAMI-DADE COUNTY

Class I
Permit Application

1. Application number	2. Date Day/Month/Year	3. For official use only
2009-CLIPER-00106		

4. Applicant Information:
Name: City of Miami Beach
Address: 1700 Convention Center Drive
Miami Beach, FL Zip Code: 33139
Phone #: (305)673-7010 Fax #: (305) 673-7782
e-mail TimHemstreet@miamibeachfl.gov

5. Applicant's authorized permit agent
Name: Coastal Systems International, Inc.
Address: 2047 Vista Parkway Suite 101
West Palm Beach, FL Zip Code: 33410
Phone #: (561)478-1005 x304 Fax #: (561)640-1009
e-mail pcutt@coastalsystemsint.com

6. Describe the proposed activity, its purpose and intended use, including a description of the type of structures, if any, to be erected on fills, or pipe or float-supported platforms, and the type, composition and quantity of materials to be discharged or dumped and means of conveyance.

Excavation of One Hundred Twenty-Five (125) Cubic Yards of Upland Sediment and Nine (9) Cubic Yards of Sediment Below the Mean High Water Line to Create a Public Kayak Launch at Pinetree Park on the Indian Creek Waterway.

	Dredged/Excavated		Filled/Deposited	
Volume of Material:	9 CY	125 CY	6.98 CY	69.49 CY
	Waterward of O.H.W. or M.H.W.	Landward of O.H.W. or M.H.W.	Waterward of O.H.W. or M.H.W	Landward of O.H.W. or M.H.W.

7. Proposed Use: (Check One)
☐ Private ☐ Commercial
☐ Other ☒ Public

8. Names and addresses of adjoining property owners whose property also adjoins the waterway.

Name: Touchdown at Doral II, LLC
Address: 4411 Pinetree Drive
Miami Beach, FL Zip Code 33140

Name: Egosita Inc., c/o Albert Reichmann
Address: 4521 Pinetree Drive
Miami Beach, FL Zip Code 33140

9. Location where proposed activity exists or will occur.
Folio # 02-3223-002-0020
Street Address: 4493 Pinetree Drive
Miami Beach
Latitude 25 49'5.03"N Longitude 80 07'28.48"W
Section 23 Township 53 Range 42
State FL County Miami-Dade In City or Town Miami Beach Near City Or Town

10. Name of waterway at location of the activity.
Indian Creek

11. Date activity is proposed to:
Commence TBD Be completed 4 months after commencement

12. Is any portion of this activity for which authorization is sought now complete?
☐ Yes
☒ No
If answer is "yes", give reasons in the remarks section. Indicate the existing work on the drawings.
Month and Year the activity was completed _____

13. List all approvals or certifications required by other Federal, state or local agencies for any structures, construction, discharges, deposits or other activities described in this application, including whether the project is a Development of Regional Impacts.

Issuing Agency	Type of Approval	Identification Number	Date of Application	Date of Approval
USACE	NW 36 & 19	SAJ 2009-770	April 2009	7/13/09
FDEP	Exemption	13-0295220-001	April 2009	7/23/09

14. Has any other agency denied approval for any activity directly related to the activity described herein?
☐ Yes
☒ No

15. Remarks

16. Estimated project cost = $152,503.00

17. Contractor
Name: TBD License #: _____
Address: _____
_____ Zip Code: _____
Phone #: _____ Fax #: _____
e-mail _____

18. Application is hereby made for a permit or permit(s) to authorize the activities described herein. I agree to provide any additional information/data that may be necessary to provide reasonable assurance or evidence to show that the proposed project will comply with the applicable State Water Quality Standards or other environmental protection standards both during construction and after the project is completed. I also agree to provide entry to the project site for inspectors from the environmental protection agencies for the purpose of making the preliminary analyses of the site and monitoring permitted works, if permit is granted. I certify that I am familiar with the information contained in this application and that to the best of my knowledge and belief, such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities.

Signature of owner _____
Timothy Hemstreet, Assistant City Manager
Date 7-30-09 City of Miami Beach

19. To obtain proprietary authorization for work on state-owned submerged lands, please include an additional copy of the following:
☐ 8½ x 11 Location Map
☐ 8½ x 11 Project Drawing
☐ Copy of Application

SUBSCRIBED AND SWORN TO ME THIS 30th DAY OF July, 2009, BY Tim Hemstreet
☒ PERSONALLY KNOWN ☐ PRODUCED IDENTIFICATION (PLEASE CHECK ONE)
TYPE OF ID PRODUCED _____ Naima De Pinedo NOTARY PUBLIC

NAIMA DE PINEDO
MY COMMISSION # DD 598910
EXPIRES: September 26, 2010
Bonded Thru Notary Public Underwriters

Attachment B
Affidavit of Ownership and Hold Harmless Agreement

//

Affidavit of Ownership
and Hold Harmless Agreement

Personally Appeared Before Me, Timothy Hemstreet, that
(Property owner, lessee or Corporate Officer if owner is a corporation)
undersigned authority, and hereby swears and affirms under oath as follows:

1. That your affiant is the record owner or lessee of that certain property* more fully described as:

   Pinetree Park, 4493 Pinetree Drive
   Miami Beach, FL 33140
   Folio number: 02-3233-002-0020

   * may attach legal description from public records or plat book or a copy of the warranty deed

2. That your affiant is also the riparian and/or littoral owner or lessee of that certain property that is the subject matter of Application No. 2009-CLIPER-00106 for a Class I permit under and pursuant to Section 24-48 of the Code of Miami-Dade County to construct or engage in the following activity:

   Excavation of One Hundred Twenty-Five (125) Cubic Yards of Upland Sediment and Nine (9) Cubic Yards of Sediment Below the Mean High Water Line to Create a Public Kayak Launch at Pinetree Park on the Indian Creek Waterway.

3. That your affiant hereby swears and affirms its ownership or leasehold in the above noted property necessary for the work noted in Paragraph 2 above, and hereby agrees to: defend same and hold the County harmless from any and all liability, claims and damages of any nature whatsoever occurring, including or arising as a result of your affiant not having the proper title to all lands or proper leasehold to all lands that are the subject matter of this application.

STATE OF FLORIDA
COUNTY OF DADE

Owner/Applicant
Timothy Hemstreet, Assistant City Manager
City of Miami Beach

BEFORE ME, the undersigned authority, personally appeared Tim Hemstreet, who, after being duly sworn, deposes and says that he/she has read the foregoing, and that the statements contained therein are true and correct to the best of his/her knowledge and belief.

Sworn to and subscribed before me this 30th (day) of July (month), 2009 (year).

Notary Signature Naima De Pinedo

Notary Seal NAIMA DE PINEDO
MY COMMISSION # DD 598910
EXPIRES: September 26, 2010
Bonded Thru Notary Public Underwriters

Attachment C
Permit Applicant/Authorized Agent Statement,
Engineer Letter of Certification, Project Plans

COASTAL SYSTEMS INTERNATIONAL, INC.
2047 Vista Parkway, Suite 101 • West Palm Beach, FL 33411
Tel: 561-640-1003 • Fax: 561-640-1009
www.coastalsystemsint.com

July 30, 2009

Miami-Dade County DERM
Class I Permitting Program
701 NW 1st Court
Miami, FL 33136

RE: Class I Standard Form Permit Application Number 2009-CLIPER-00106 by the City of Miami Beach for the Excavation of One Hundred Twenty-Five (125) Cubic Yards of Upland Sediment and Nine (9) Cubic Yards of Sediment Below the Mean High Water Line to Create a Public Kayak Launch at Pinetree Park on the Indian Creek Waterway.

By the attached Class I Standard Form permit application with supporting documents, I, R. Harvey Sasso, President of Coastal Systems International, Inc., am the applicant's authorized agent and hereby request permission to perform the following: Excavation of One Hundred Twenty-Five (125) Cubic Yards of Upland Sediment and Nine (9) Cubic Yards of Sediment Below the Mean High Water Line to Create a Public Kayak Launch at Pinetree Park on the Indian Creek Waterway. I understand that a Miami-Dade County Class I Standard Form Permit is required to perform this work.

If approval is granted for the proposed work by the Board of County Commissioners, complete and detailed plans and calculations of the proposed work shall be prepared by an engineer registered/licensed in the State of Florida in accordance with the minimum requirements of Chapter 24 of the Code of Miami-Dade County, Florida. Said plans and calculations shall be subject to the review and approval of the Department of Environmental Resources Management. The permit applicant will secure the services of an engineer registered/licensed in the State of Florida to conduct inspections throughout the construction period, and said engineer shall prepare all required drawings of record. In the event that the proposed work which is the subject of this Class I Permit application involves the cutting or trimming of a mangrove tree(s), a detailed plan of the proposed cutting or trimming shall be prepared by a licensed landscape architect and submitted to the Department for review and approval, and the permit applicant will secure the services of a licensed landscape architect to supervise the trimming or cutting.

Respectfully Submitted,

R. Harvey Sasso, President
Coastal Systems International Inc.
Authorized Agent

COASTAL SYSTEMS INTERNATIONAL, INC.
464 South Dixie Highway • Coral Gables, Florida 33146
Tel: 305-661-3655 • Fax: 305-661-1914
www.coastalsystemsint.com

July 30, 2009

Miami-Dade County DERM
Class I Permitting Program
701 NW 1st Court
Miami, Florida 33136

RE: CLASS I STANDARD FORM PERMIT APPLICATION NUMBER 2009-CLIPER-00106, CLASS I PERMIT APPLICATION BY THE CITY OF MIAMI BEACH FOR THE EXCAVATION OF ONE HUNDRED TWENTY-FIVE (125) CUBIC YARDS OF UPLAND SEDIMENT AND NINE (9) CUBIC YARDS OF SEDIMENT BELOW THE MEAN HIGH WATER LINE TO CREATE A PUBLIC KAYAK LAUNCH AT PINETREE PARK ON THE INDIAN CREEK WATERWAY

Ladies and Gentlemen:

This letter will certify that I am an engineer registered/licensed in the State of Florida, qualified by education and experience in the area of construction, and that to the best of my knowledge and belief, the proposed work does not violate any laws of the State of Florida or any provision of the Code of Miami Dade County which may be applicable, that diligence and recognized standard practices of the engineering profession have been exercised in the engineer's design process for the proposed work, and in my opinion based upon my knowledge and belief, the following will not occur:

a. Harmful obstruction or undesirable alteration of the natural flow of the water within the area of the proposed work.

b. Harmful or increased erosion, shoaling of channels or stagnant areas of water. (Not applicable to class IV permits).

c. Material injury to adjacent property.

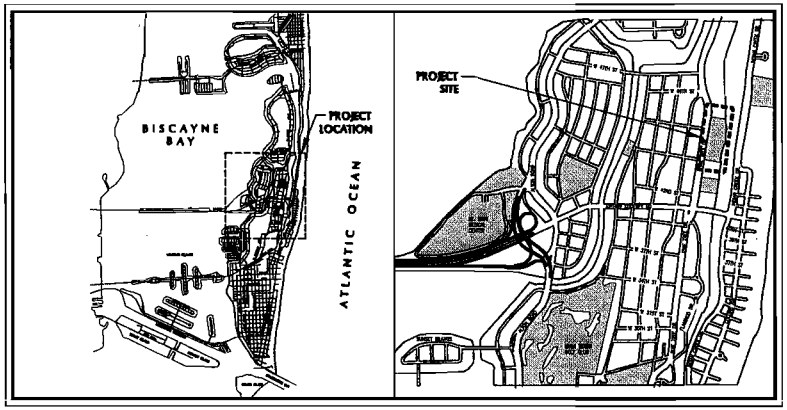
d. Adverse environmental impacts from changes in water quality or quantity. (Applicable to class IV permits only).

Further, I have been be retained by the applicant to provide inspections throughout the construction period and to prepare a set of reproducible record prints of drawings showing changes made during the construction process based upon the marked-up prints, drawings, and other data furnished by the contractor to me.

Sincerely,
Coastal Systems International, Inc.
State of Florida EB #7087

Timothy K. Blankenship, P.E.
FL Reg. 55910

PINE TREE PARK
SHORELINE IMPROVEMENTS
FOR
CITY OF MIAMI BEACH
1700 CONVENTION CENTER DRIVE
MIAMI BEACH, FL 33139



LOCATION MAP

MIAMI BEACH, FL

DESIGN TEAM

COASTAL SYSTEMS INTERNATIONAL

PERMIT SET 03/20/2009

F:\Project\200310.01\Construction Drawings\Working\200310.01-G-1.dwg

INDEX OF SHEETS

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RECEIVED
JUN 29 2009
DERM
Environmental Resources Regulation Division

PINE TREE PARK SHORELINE IMPROVEMENTS

CITY OF MIAMI BEACH
1700 CONVENTION CENTER DRIVE
MIAMI, FL 33139

COASTAL SYSTEMS INTERNATIONAL, INC.
464 South Dixie Highway
Coral Gables, Florida 33146
Tel: 305-661-3655
Fax: 305-661-1814
www.CoastalSystemsInt.com
State of Florida EB #7087
Coastal, Environmental, Civil Engineering and Management

CONSULTANTS

ISSUE	DATE	FILE	DESCRIPTION
1	06-11-09	DEP	DERM RR COMMENTS

PROJECT NO: 200310.01
DATUM: NGVD
DRAWN BY: [illegible]
CHECKED BY: [illegible]

ENGINEER OF RECORD

DRAWING NOT VALID WITHOUT EMBOSSED SEAL

J.K. BLANKENSHIP
FL. REG. 55910

JUN 12 2009

LOCATION MAP AND INDEX OF SHEETS

G-1
1 OF 10 SHEETS

GENERAL NOTES:

1. THE WORK CONSISTS OF FURNISHING ALL CONSTRUCTION, LABOR, EQUIPMENT AND MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE RAMP AS SHOWN ON THESE DRAWINGS.
2. THE CONTRACTOR SHALL ABIDE BY ALL NOTES AND CONDITIONS INDICATED ON THE CONSTRUCTION PLANS AND PERMITS. IF THE CONTRACTOR VIOLATES ANY CONDITION OF THE PERMIT AND WORK IS STOPPED BY THE STATE OR OTHER PUBLIC ENTITY, THEN ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR SHALL BE PAID BY THE CONTRACTOR AND NOT CHARGED TO THE OWNER.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL BUILDING PERMITS NECESSARY FOR THIS WORK. A PRECONSTRUCTION MEETING WILL BE HELD ON SITE TO VERIFY DETAILS AND METHODS OF CONSTRUCTION.
4. EXCEPT AS NOTED ON THE PLANS, ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE FLORIDA BUILDING CODE OR FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. ANY DISCREPANCIES IN THE PLANS WITH FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONSTRUCTION SHALL NOT CONTINUE UNTIL THE ENGINEER HAS ADDRESSED THE DISCREPANCIES.
6. THE ENGINEER IS RESPONSIBLE FOR OBTAINING ENVIRONMENTAL PERMITS FOR THE PROJECT. COPIES WILL BE PROVIDED TO THE CONTRACTOR, AND THE CONTRACTOR SHALL ABIDE BY ALL REGULATIONS AND PERMIT CONDITIONS.
7. FOR LEGEND SYMBOLS REFER TO INDIVIDUAL PLAN SHEETS.

SURVEY NOTES:

1. THE HYDROGRAPHIC AND RESOURCE INFORMATION SHOWN ON THIS MAP REPRESENTS THE RESULTS OF FIELD MEASUREMENTS PERFORMED BY COASTAL SYSTEMS INTERNATIONAL, INC. ON MAY 14, 2004 AND UPDATED FEBRUARY 2009.
2. SOUNDINGS AND ELEVATION ARE IN FEET AND REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
3. SOUNDINGS AND UPLAND ELEVATION INFORMATION WAS OBTAINED USING DIFFERENTIAL AND TRIGONOMETRIC LEVELING TECHNIQUES.
4. UPLAND ELEVATIONS ARE BASED ON BENCH MARK "BM 45-01", A NAIL AND DISK SET ON THE FACE OF SIDEWALK AT THE SOUTH WEST CORNER OF 45th STREET AND PINE TREE DRIVE, ELEVATION 8.42' MEAN LOW WATER "BAY" DATUM. BAY DATUM IS 0.78' BELOW NGVD 29.
5. HORIZONTAL INFORMATION IS RELATIVE TO A SPECIFIC PURPOSE SURVEY PROVIDED BY CLIENT, PERFORMED BY CITY OF MIAMI BEACH PUBLIC WORKS DEPARTMENT DATED 02/25/2004, ENTITLED "SURVEY EAST END PINE TREE PARK". SURVEY DATA UPDATED IN JUNE, 2007.
6. THE "SURVEY EAST END PINE TREE PARK" WAS PROVIDED WITHOUT RELATIONSHIP TO ANY COORDINATE SYSTEM AND WAS ALIGNED TO THE AERIAL PHOTOGRAPHY.
7. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF THE SURVEY ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS AN INDICATION OF THE GENERAL CONDITIONS EXISTING AT THAT TIME.

LAYOUT AND TESTING:

1. ALL CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY AND PAID FOR BY THE CONTRACTOR UNDER THE SUPERVISION OF A FLORIDA REGISTERED SURVEYOR.
2. ALL TESTING AND INSPECTION FOR CONCRETE MATERIALS SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATIONS AND SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY PROVIDED BY THE OWNER.
3. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS IN SUFFICIENT DETAILS TO ILLUSTRATE THE HORIZONTAL AND VERTICAL COMPONENTS OF ABOVE AND BELOW GROUND STRUCTURES. AS-BUILTS DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER OR SURVEYOR AS APPROPRIATE.

SHOP DRAWING NOTES:

1. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO MATERIAL PURCHASE AND/OR CONSTRUCTION.
2. SUBMIT SHOP DRAWINGS OF THE FOLLOWING FOR REVIEW BY ENGINEER AND/OR OWNER:
   A. ARMOR STONE
   B. VINYL SHEET PILING
   C. GEORUNNER MAT
   D. CRUSHED SHELL FOR ACCESS PLATFORMS
   E. FILTER FABRIC

PROJECT CLOSEOUT:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONSTRUCTION SITE DURING CONSTRUCTION AND FOR FINAL CLEAN-UP AT THE COMPLETION OF THE PROJECT.
2. THE CONTRACTOR SHALL RESTORE OR REPLACE ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, EMPLOYEES OR SUBCONTRACTORS TO EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

LEGAL DESCRIPTION:

PORTION OF TRACT B OF "AMENDED PLAT OF THE INDIAN BEACH CORPORATION'S SUBDIVISION OF LANDS IN GOV'T LOTS 1-2-3-4-5-6 AND 7 OF SEC.23-TWP.53S.-RGE.42E", ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 8 AT PAGE 61 OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

PRIOR TO ANY EXCAVATIONS PLEASE CONTACT OUR OFFICE FOR LOCATIONS OF CITY UTILITIES
305-673-7080
CITY OF MIAMI BEACH

CALL 48 HOURS BEFORE DIGGING
CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.

EARTHWORK AND COMPACTION NOTES:

1. EXISTING ON-SITE BASE MATERIAL SHALL NOT BE REUSED FOR BASE CONSTRUCTION, BUT MAY BE USED FOR BACKFILL AND FOR SUBGRADE CONSTRUCTION, AND FOR GENERAL FILL AS APPROVED BY THE ENGINEER. NO FILL SHALL BE PLACED BELOW THE MHWL.
2. ALL FILL MATERIAL IN AREAS NOT TO BE PAVED SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
4. ALL ORGANIC AND OTHER UNSUITABLE MATERIAL WITHIN THREE (3) FEET OF FINISHED GRADE AREAS SHALL BE REMOVED.

EROSION CONTROL:

1. WHEN MATERIAL OR DEBRIS HAS WASHED OR FLOWED INTO OR BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
2. PROVIDE APPROPRIATE SILT BARRIERS IN ACCORDANCE WITH FDOT SPECIFICATIONS WHEN PERFORMING WORK ADJACENT TO DRAINAGE CANALS OR WATERWAYS.
3. TURBIDITY CURTAINS SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE DETAILS PROVIDED IN PLANS
4. CONTRACTOR SHALL SUBMIT TURBIDITY CONTROL PLAN FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION IN ACCORDANCE WITH REGULATORY PERMITS.
5. TURBIDITY SHALL BE MONITORED AS OUTLINED IN THE REGULATORY PERMITS AND CONSTRUCTION DRAWINGS.
6. CONTRACTOR SHALL DEPLOY TURBIDITY CURTAINS AS SHOWN WITHIN THE PROJECT TURBIDITY CONTROL LIMITS. TURBIDITY CURTAINS SHALL BE DEPLOYED IN A MANNER NOT TO ENTANGLE OR HARM MANATEES.
7. TURBIDITY CURTAINS SHALL NOT BE RELOCATED/REMOVED FROM WORK AREA UNTIL TURBIDITY LEVELS WITHIN THE ENCLOSED AREA RETURN TO BACKGROUND LEVELS OUTSIDE THE CURTAINS.

VINYL SHEET PILING:

1. VINYL SHEET PILE SHALL BE OF THE SECTIONS AND LENGTHS INDICATED.
2. SHEET PILING SHALL BE SHOREGUARD FLAT PANEL AS MANUFACTURED BY CRANE MATERIALS INTERNATIONAL OR EQUIVALENT.
3. MATERIAL PROPERTIES:
   STRENGTH RATING: 6,000 FT. LBS/FT
   SECTION MODULUS: 20.2 IN^3 /FT
   DESIGN STRESS: 3,200 PSI
   MOMENT OF INERTIA: 91 IN /FT
4. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER INSTRUCTIONS

ARMOR STONE:

1. UNLESS NOTED OTHERWISE, ALL ROCK MATERIALS SHALL BE ROUGH ANGULAR QUARRIED STONE OF A DENSE, HARD, DURABLE CHARACTER, FREE OF ORGANIC MATERIAL, INFILLED JOINTS, SEAMS OR OTHER DEFECTS, RESISTANT TO BREAKDOWN BY HANDLING, FROST ACTION OR WEATHERING, AND NOT SUBJECT TO DETERIORATION IN SEA WATER. PROVIDE LIMESTONE MATERIAL IN ACCORDANCE WITH FDOT SPECIFICATION 530-2.2.1.
2. FOR ARMOR ROCK, MASS GOVERNS THE GRADATION AND THE NOMINAL SIZE IS DEFINED AS $D=(W/150)^{1/3}$ - WHERE D IS THE NOMINAL SIZE IN FEET, W IS THE MASS IN POUNDS.
3. EACH TYPE OF ARMOR ROCK AND FILTER ROCK SHALL BE GRADED BETWEEN THE LIMITS SPECIFIED, WITH THE LONGEST DIMENSION OF ANY PIECE NOT GREATER THAN 2.5 TIMES ITS LEAST DIMENSION.

PERCENT LESS THAN BY WEIGHT	MASS LB	NOMINAL SIZE FT
100	270	1.2
50	155	1.0
0	80	0.8

CRUSHED SHELL:

1. PROVIDE SHELL ROCK MATERIAL IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" SECTION 913A

GEORUNNER MAT:

1. PROVIDE GEORUNNER MAT SYSTEM (OR EQUIVALENT)
2. REFER TO MANUFACTURER'S SPECIFICATIONS FOR GEORUNNER SYSTEM AT WWW.REYNOLDSPKG.COM/ALCOA-GEO/

EXOTIC VEGETATION REMOVAL:

1. ALL EXOTIC VEGETATION INCLUDING AUSTRALIAN PINE (CASUARINA SP.), BRAZILIAN PEPPER (SCHINUS SP.), BEACH NAUPAKA (SCAEVOLA SP.), ETC. MUST BE REMOVED ABOVE THE SUBSTRATE AND THE REMAINING STUMPS MUST BE TREATED WITH AN APPROPRIATE HERBICIDE. DISTURBANCE TO THE MANGROVE ROOTS AND/OR THE SUBSTRATE MUST BE AVOIDED.
2. ALL DEBRIS ASSOCIATED WITH EXOTIC REMOVAL MUST BE COMPLETELY REMOVED FROM THE MANGROVE FRINGE.
3. THERE SHALL BE NO DAMAGE TO ANY MANGROVES OR BUTTONWOODS IN THE PROJECT AREA. TRIMMING OR REMOVAL OF MANGROVES, BUTTONWOODS OR WETLAND VEGETATION, OTHER THAN EXOTIC VEGETATION, IS PROHIBITED. THERE SHALL BE NO DAMAGE, CUTTING OR TRIMMING OF EXISTING PROP ROOTS OR DROP ROOT SYSTEMS OF THE RED MANGROVES, OR PNEUMATOPHORES OF BLACK OR WHITE MANGROVES.
4. PRIOR TO THE COMMENCEMENT OF WORK ON THE PROJECT, PROTECTIVE BARRIERS (I.E. WIRE FENCE, WOODEN BARRICADE HELD IN PLACE WITH STEEL REBAR, PLASTIC MESH FENCING, ETC.) MUST BE ERECTED ALONG THE SIDES OF PROTECTED MANGROVES ADJACENT TO THE WORK AREA. SAID BARRIERS SHALL REMAIN IN PLACE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.

ABBREVIATIONS

AC.	ACRES
APPROX.	APPROXIMATE
BLDG.	BUILDING
CL	CENTER LINE
C.O.	CLEAN OUT
CONC.	CONCRETE
CU. FT.	CUBIC FOOT
CU. IN.	CUBIC INCH
CU. YD.	CUBIC YARD
DEPT.	DEPARTMENT
DIA./ø	DIAMETER
D.I.P.	DUCTILE IRON PIPE
DWG	DRAWING
E	EAST
EA.	EACH
ELEV. / EL.	ELEVATION
ELEC.	ELECTRIC/ELECTRICAL
EOP	EDGE OF PAVEMENT
EXIST.	EXISTING
FH	FIRE HYDRANT
FM	FORCE MAIN
FT.	FOOT/FEET
GALV.	GALVANIZED
G.S.P.	GALVANIZED STEEL PIPE
ID	INSIDE DIAMETER
IN	INCH
INV. EL.	INVERT ELEVATION
LF	LINEAR FEET
MAX.	MAXIMUM
MIN.	MINIMUM
MHW	MEAN HIGH WATER
MHHW	MEAN HIGHER HIGH WATER
MLW	MEAN LOW WATER
MSL	MEAN SEA LEVEL
N. / NO.	NORTH
N.A. / N/A	NOT APPLICABLE
NE	NORTHEAST
NTS	NOT TO SCALE
NO./#	NUMBER
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PCF	POUNDS PER CUBIC FOOT
P.E.	PROFESSIONAL ENGINEER
PERF.	PERFORATE
PREFAB.	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R / RAD.	RADIUS
REBAR	REINFORCING BAR
REINF.	REINFORCING
R/W	RIGHT OF WAY
S. / SO.	SOUTH
SE	SOUTHEAST
SPEC.	SPECIFICATION
SQ.	SQUARE
SQ. FT.	SQUARE FOOT
SQ. IN.	SQUARE INCH
SQ. YD.	SQUARE YARD
SS	STAINLESS STEEL
ST	STORM
STRUC.	STRUCTURAL
SW	SOUTHWEST
THRU	THROUGH
T.B.R.	TO BE REMOVED
T.O.C. / TOC	TOP OF CURB
T.O.G.	TOP OF GRATE
T.O.W.	TOP OF WALL
TYP.	TYPICAL
UTIL. / UTL.	UTILITY
VERT.	VERTICAL
W.	WEST
WWF	WELDED WIRE FABRIC
YD	YARD

EARTHWORKS EXCAVATION QUANTITY

APPROX. 125 CY OF MATERIAL IN A 3,400 SF AREA TO BE EXCAVATED FOR REGRADING KAYAK LAUNCHING AREAS LANDWARD OF THE EXISTING MHWL.
APPROX. 9 CY OF MATERIAL IN A 170 SF AREA TO BE EXCAVATED SEAWARD OF THE EXISTING MHWL.

TABLE OF QUANTITIES

DESCRIPTION	QUANTITY	UNIT
EXCAVATION BELOW MHWL	9	C.Y.
EXCAVATION ABOVE MHWL	125	C.Y.
12"- 16" LIMESTONE (ROCK REVETMENT)	37	TON
REWORK EXISTING ROCK REVETMENT	8	TON
SHEET PILE (ELITE WALL FLAT VINYL)	2426	S.F.
ELITE WALL - STONE FASCIA (ABOVE MHWL)	249	S.F.
FILL MATERIAL: CRUSHED SHELL SAND & PEA-ROCK	86	TON
LANDSCAPE EDGING (RETAIN SAND)	186	L.F.
4' WIDE GEO RUNNER MAT	1,342	S.F.
POST AND CHAIN	125	L.F.
LANDSCAPE - SHORELINE (APPROX. 10' WIDE)	700	L.F.
SOD	400	S.F.

Proposed Fill and Materials Waterward of Existing MHWL

1 Proposed Materials
Proposed Rock revetment
Area= 62.5 sf 1.5 ft Height 93.75 c.f. 3.47 c.y.

Proposed sand fill between sheet piles
Profile= 14.14 sf 4 ft Width 56.56 c.f. 2.09 c.y.

Proposed Crushed Shell Sand
Area= 223.78 sf 0.17 ft Height 38.04 c.f 1.41 c.y.

Total Fill 6.98 c.y.

2 Existing Riprap to be Re-used
Area= 90.00 sf 1.5 ft Aver. Height 135 c.f. 5.00 c.y

3 Geo-Runner
Area= 47.7 s.f 0.04 ft Aver. Height 1.91 c.f. 0.07 c.y.

4 Vinyl Sheet Pile
Length47.68 lf 13.18 ft Aver. Length 628.42 s.f. 69.82 c.y.

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State of Florida EB #7087
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ISSUE	DATE	DESCRIPTION
2	07-24-2009	GEORUNNER OVER RIP
1	06-11-09	DEP/DERM RAI COMME

PROJECT NO: 200310.01
DATUM: NGVD
DRAWN BY: JOB
CHECKED BY: CB

ENGINEER OF RECORD

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FL. REG. 55910

GENERAL NOTES AND TABLE OF QUANTITIES

G-2
2 OF 10 SHEETS

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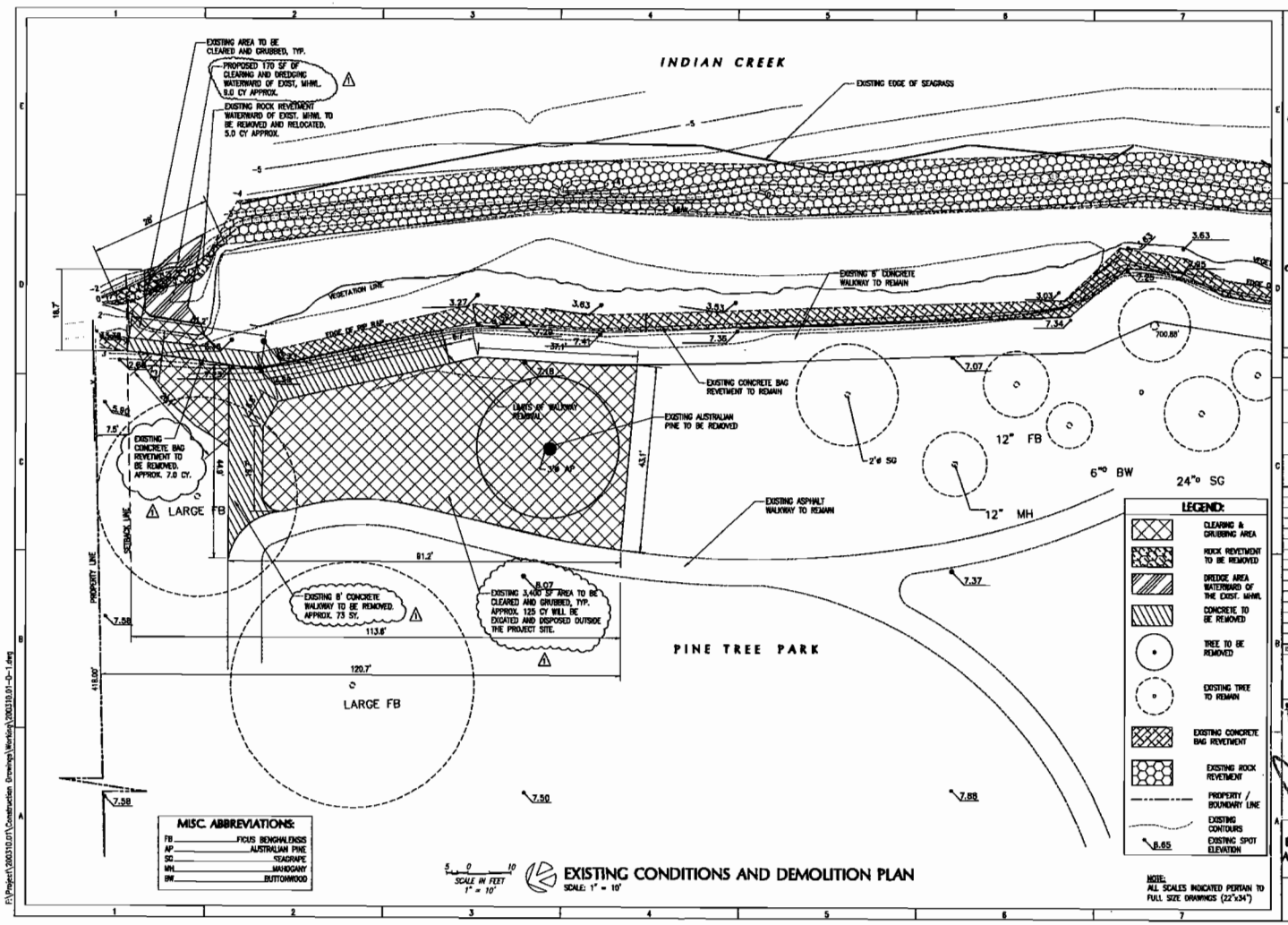

WHEN PRINTING ON 8-1/2"x11" PAPER, SCALE IS 1" = 40'.

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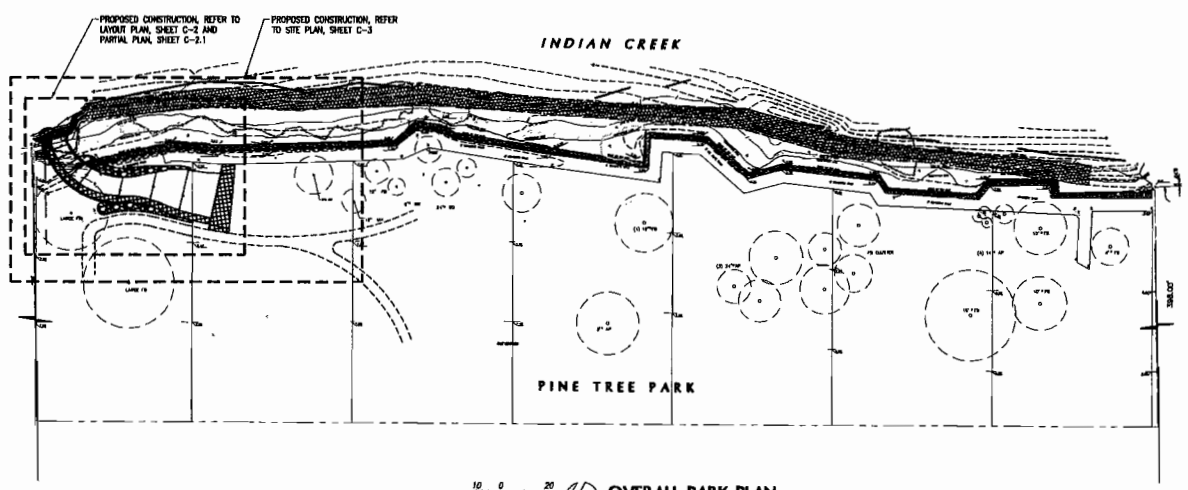
Environmental Resources Regulation Division



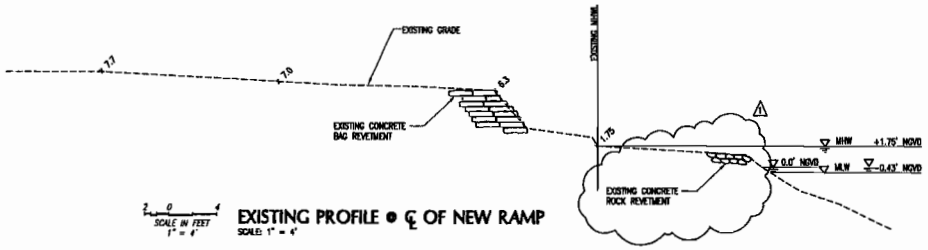
10 0 20
SCALE IN FEET
1" = 20'

OVERALL PARK PLAN
SCALE: 1" = 20'

WHEN PRINTING ON 8-1/2"x11" PAPER, SCALE IS 1" = 80'.

MISC. ABBREVIATIONS:

FB	FICUS BENGHALENSIS
AP	AUSTRALIAN PINE
SG	SEAGRAPE
MH	MAHOGANY
BW	BUTTONWOOD



2 0 4
SCALE IN FEET
1" = 4'

EXISTING PROFILE @ ℄ OF NEW RAMP
SCALE: 1" = 4'

WHEN PRINTING ON 8-1/2"x11" PAPER, SCALE IS 1" = 16'.

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (22"x34")

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PINE TREE PARK SHORELINE IMPROVEMENTS

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1700 CONVENTION CENTER DRIVE
MIAMI, FL 33139

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444 South Dixie Highway
Coral Gables, Florida 33146
Tel: 305-661-3635
Fax: 305-661-1811
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1	06-11-09	REVISION IN COMMENT

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DATUM: NGVD
DRAWN BY: [illegible]
CHECKED BY: [illegible]

SHOWN ON AS-BUILTS

"THIS DRAWING NOT VALID WITHOUT ORIGINAL SEAL"

J.K. BLYNCKENSHIP
FL. REG. 15910

6-24-09

OVERALL PARK PLAN AND EXISTING PROFILE

C-1
4 OF 10 SHEETS

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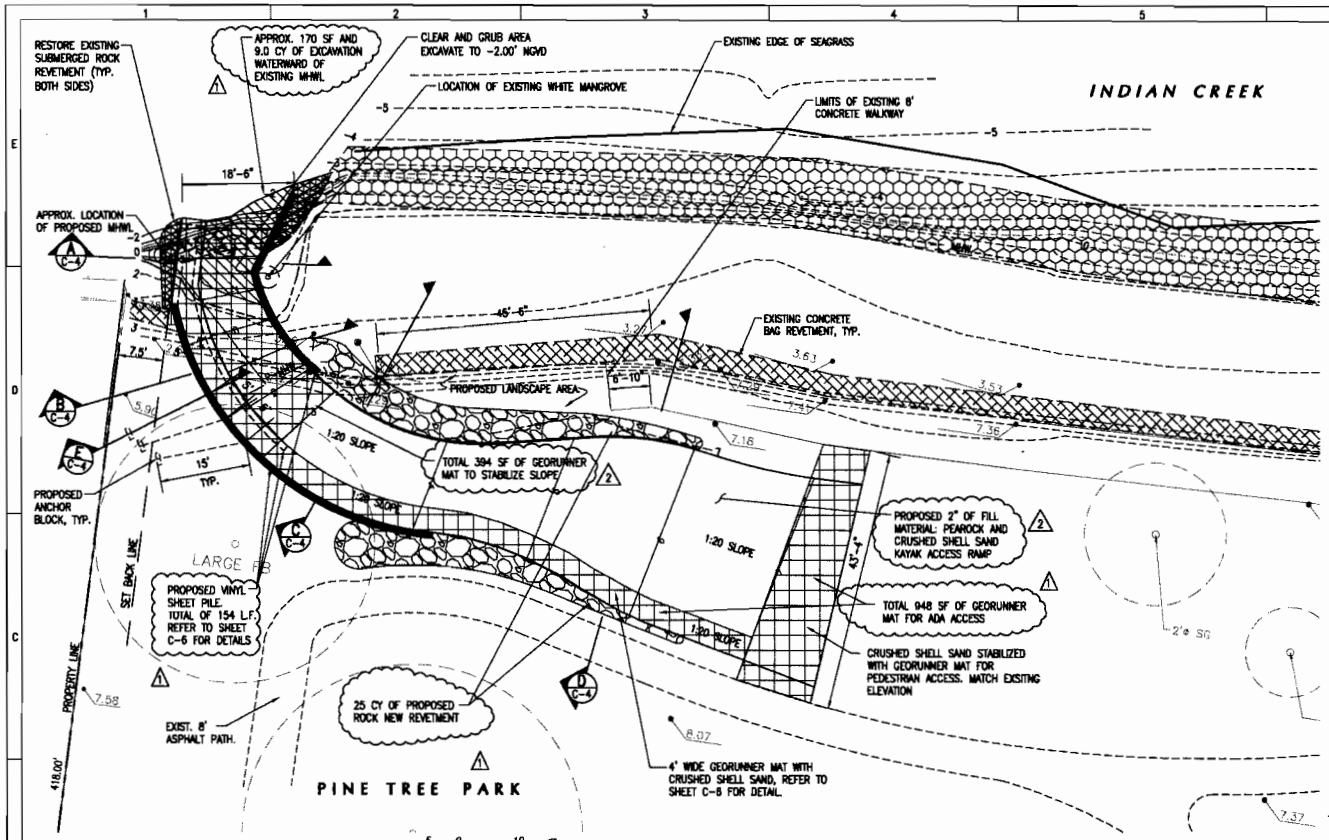
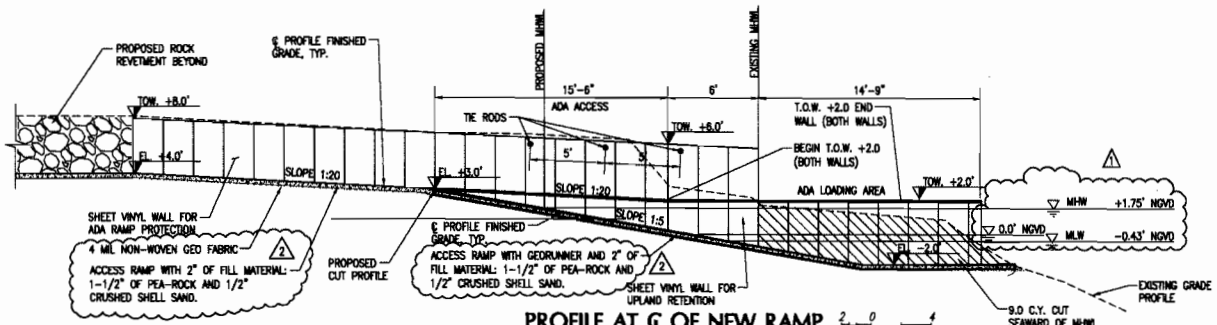


KAYAK LAUNCHING PAD - SITE PLAN

SCALE: 1" = 10'



PROFILE AT ℄ OF NEW RAMP

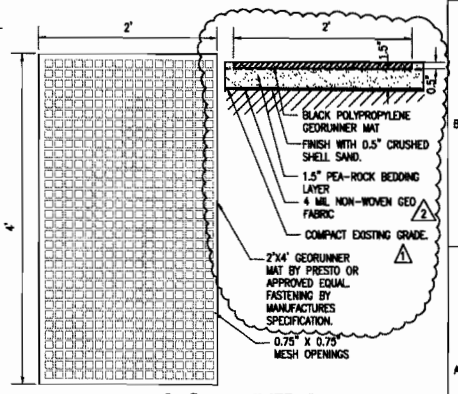
SCALE: 1" = 4'

LEGEND:

- CRUSHED SHELL SAND STABILIZED WITH GEO-RUNNER MAT
- PROPOSED ROCK REVETMENT
- RESTORE EXISTING SUBMERGED ROCK
- EXCAVATED AREA
- EXISTING TREE TO REMAIN
- EXISTING CONCRETE BAG REVETMENT
- EXISTING ROCK REVETMENT
- PROPERTY / BOUNDARY LINE
- EXISTING CONTOURS
- 8.65 EXISTING SPOT ELEVATION
- EXPOSED VINYL SHEETPILE WALL
- VINYL SHEETPILE WALL BELOW GEO-RUNNER MAT

MISC. ABBREVIATIONS:

FB	FICUS BENGHALENSIS
AP	AUSTRALIAN PINE
SG	SEAGRAPE
MH	MAHOGANY
BW	BUTTONWOOD



GEO RUNNER DETAIL

SCALE: 2" = 1'

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (22"x34")

PINE TREE PARK SHORELINE IMPROVEMENTS

CITY OF MIAMI BEACH
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Coral Gables, Florida 33146
Tel: 305-661-3655
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2	07-24-2009	GEORUNNER OVER RA
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PROJECT NO: 200310.01
DATUM: NGVD
DRAWN BY: JDB
CHECKED BY: DB

ENGINEER OF RECORD

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T.K. BLANKENSHIP
FL REG. 55010

KAYAK LAUNCHING PA
SITE PLAN AND PROFI

C-3

7 OF 10 SHEETS

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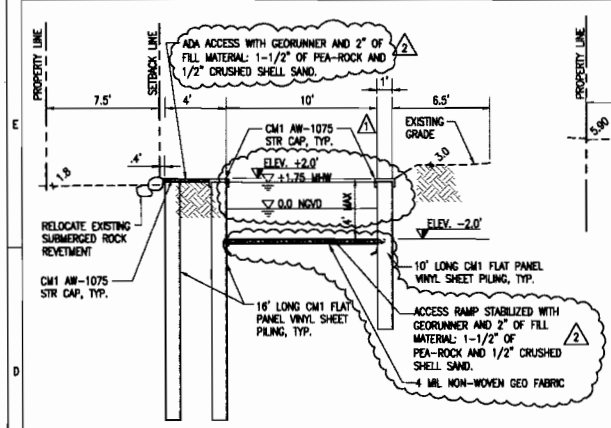
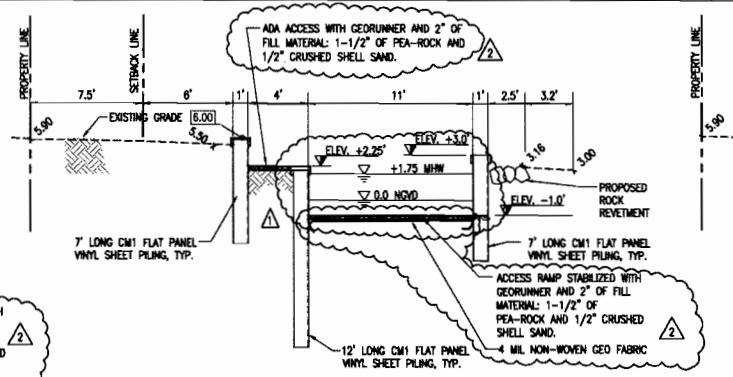


A CROSS SECTION
SCALE: 1" = 4'



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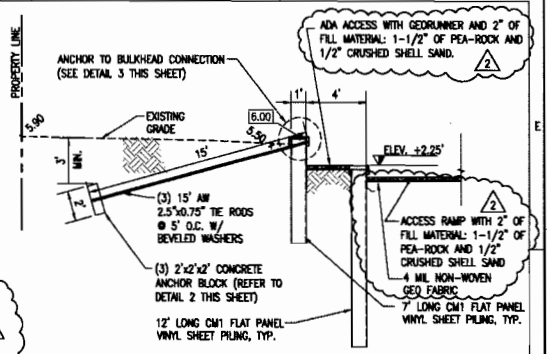

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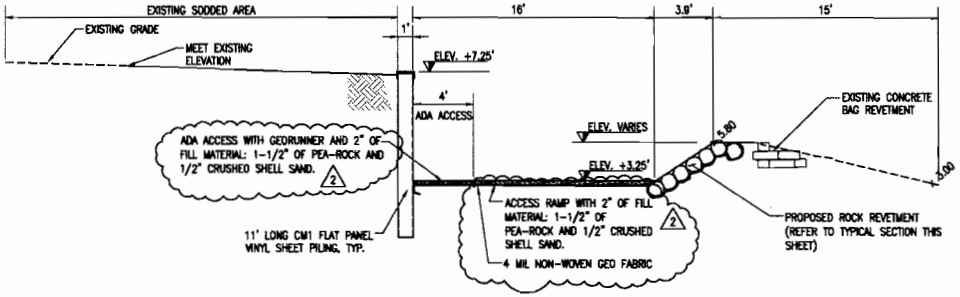

C CROSS SECTION
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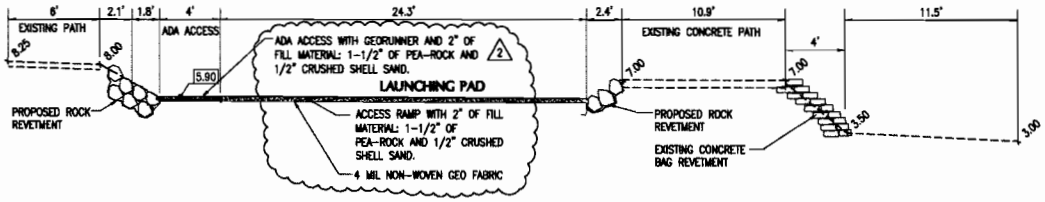

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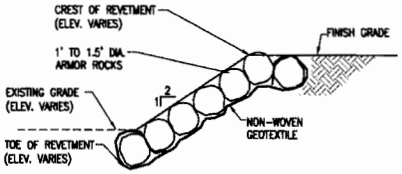

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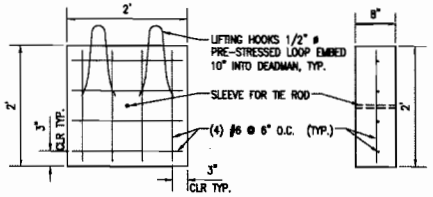
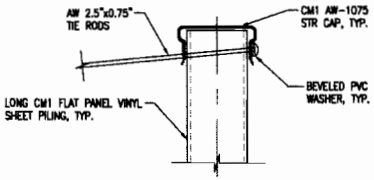


2 REINFORCEMENT ANCHOR BLOCK DETAIL
SCALE: 1" = 1'



3 ANCHOR TO BULKHEAD CONNECTION DETAIL
SCALE: 1" = 1'

.5 0 1 — SCALE IN FEET 1" = 1'
1 0 2 — SCALE IN FEET 1" = 2'
2 0 4 — SCALE IN FEET 1" = 4'

NOTE:
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PINE TREE PARK SHORELINE IMPROVEMENTS

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ISSUE	DATE	DESCRIPTION
2	07-24-2008	GEORUNNER OVER BM
1	06-11-08	DEP/DERM RAI COMME

PROJECT NO: 200310.01
DATUM: NGVD
DRAWN BY: JDB
CHECKED BY: GB

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KAYAK LAUNCH CROSS SECTIONS

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8 OF 10 SHEETS

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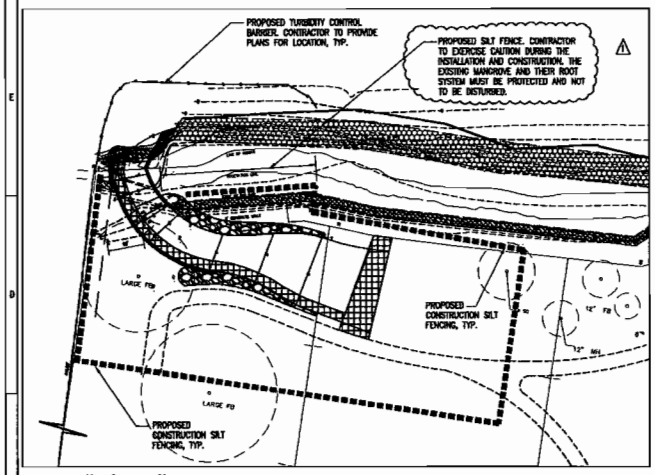
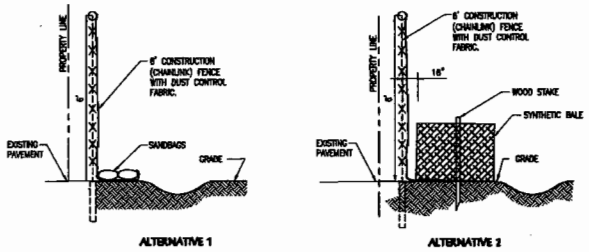


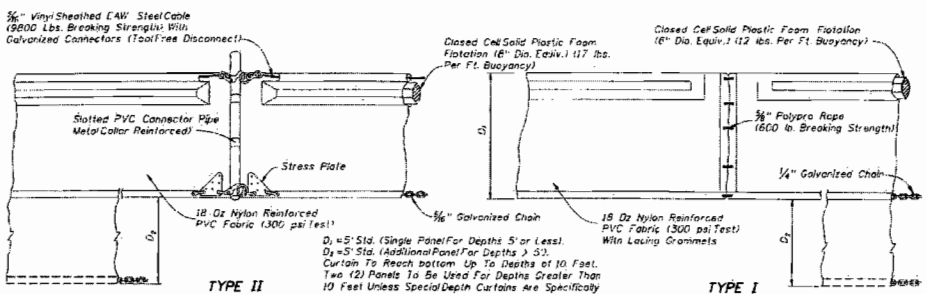
PLAN VIEW
SCALE: 1" = 20'



FENCE DETAIL WITH SEDIMENT TRAP

NOTE: ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT SET FORTH IN S. 62-40.432, F.A.C., THE APPLICABLE STORMWATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT, AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND ANY SUBSEQUENT AMENDMENTS.

CALL 48 HOURS BEFORE DIGGING
CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.



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 ENGINEER.

FLOATING TURBIDITY BARRIERS

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (22"x34")

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ISSUE	DATE	DESCRIPTION
1	06-11-09	DEP/DERM RAI COMMENTS

PROJECT NO.: 200310.01
DATUM: NGVD
DRAWN BY: [illegible]
CHECKED BY: [illegible]

LICENSEE OF RECORD

T.K. BLANKENSHIP
FL REG. 55910

JUN 12 2009

TURBIDITY AND EROSION CONTROL PLAN

C-5
9 OF 10 SHEETS

WHEN PRINTING ON 8-1/2"x11" PAPER, MULTIPLY SCALE BY 4.

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JUN 29 2009
DERM
Environmental Resources Regulation Division

22

AW-1075 STR Cap

Section Modulus (Z)	30.8 in³	541 cm³
Moment of Inertia (I)	128 in⁴	5,326 cm⁴
Outside Width	12.3 in	312 mm
Inside Width	10.18 in	258 mm
Material	6063-T6 Marine Grade Aluminum	

AW-1075 STR CAP DETAIL
SCALE: NOT TO SCALE

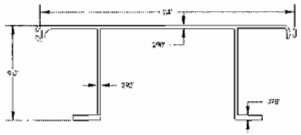
AW 2.5" x 0.75" Rod Kit

Max System Tensile Force (FOS 1.67)	12,000 lb	53,379 N
Available System Lengths	15 ft and 20 ft	4.6 m and 6.1 m
Recommended Accessories	Beveled PVC Washer, 4" Nylon Plate Washer	
Standard Packaging	2.5" x 0.75" Rod Head, Turnbuckle, 0.75" Extension Rod, HDG Fasteners	

AW 2.5"x0.75" ROD KIT - TYPICAL SECTION
SCALE: NOT TO SCALE

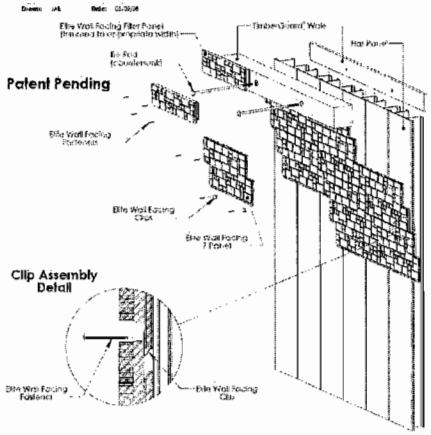
Flat Panel

Allowable Moment (M)	5,387 lb-ft/ft	23.96 kN-m/m
Section Modulus (Z)	20.2 in³/ft	1,086 cm³/m
Moment of Inertia (I)	91 in⁴/ft	12,430 cm⁴/m
Impact Strength	13,750 in-lbs/in²	2,406 N-mm/mm²
Thickness (t)	0.290 in	7.4 mm
Section Depth	9.0 in	229 mm
Section Width	24 in	610 mm
Material	Weatherable Rigid Vinyl	
Standard Colors	Textured Grey, Textured Clay	
Profile/Patented Features	Flat Profile, I-Beam Lock	
Standard Packaging	6 sheets/bundle	



"FLAT PANEL" VINYL SHEET PILING DETAIL
SCALE: NOT TO SCALE

Elite Wall Facing System



"ELITE WALL" FACING DETAIL
SCALE: NOT TO SCALE

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (22"x34")

PINE TREE PARK SHORELINE IMPROVEMENTS

CITY OF MIAMI BEACH
1700 CONVENTION CENTER DRIVE
MIAMI, FL 33139

COASTAL SYSTEMS INTERNATIONAL, INC.
404 South Dixie Highway
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Fax: 305-661-1014
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State of Florida EB #7987
Coastal, Environmental, Civil Engineering and Management

CONSULTANTS

ISSUE	DATE	BY	DESCRIPTION
1	06-11-09	DCP/RCM	BID COMMENTS

PROJECT NO: 2003.0.01
DATUM: NGVD
DRAWN BY: CM
CHECKED BY: CM

ENGINEER OF RECORD

T.K. BLANKENSHIP
FL. REG. 55910

JUN 12 2009

STANDARD DETAILS

C-6
10 OF 10 SHEETS

F:\Project\2003.0.01\Construction Drawings\Working\2003.0.01-C-6.dwg

2

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JUN 29 2009
DERM
Environmental Resources Regulation Division

Attachment D
Zoning Memo

Memorandum

MIAMI-DADE COUNTY

Date: July 29, 2009

To: Lisa Spadafina, Manager
Coastal Resources Section
Environmental Resources Management

From: Elaine Pietryak, Biologist II
Coastal Resources Section
Environmental Resources Management

Subject: Class I Permit Application by the City of Miami Beach for the Excavation of One Hundred Twenty-five (125) Cubic Yards of Upland Sediment and Nine (9) Cubic Yards of Sediment Below the Mean High Water Line to Create a Public Kayak Launch at Pinetree Park on the Indian Creek Waterway

---

Pursuant to Section 24-48.2(II)(A)(7), of the Code of Miami-Dade County, Florida, a substantiating letter shall be submitted by the applicant stating that the proposed project does not violate any zoning laws. Said letter will be submitted after approval by the County Commission and prior to issuance of the Class I permit.

Attachment E:
Names and Addresses of Owners of All Riparian or Wetland Property Within Three Hundred (300) Feet of the Proposed Work

Easy Peel Labels
Use Avery® TEMPLATE 8160™

Feed Paper

See Instruction Sheet
for Easy Peel Feature

AVERY® 8660™

Egosita Inc. c/o Albert Reichmann
1 First Canadian Pl. Ste 3300
Toronto, Ontario M5X 00000

Thomas and Rhonda Weiss
4525 Pinetree Drive
Miami Beach, FL 33140

City of Miami Beach, City Hall
1700 Convention Center Drive
Miami Beach, FL 33139

Fountainbleau Florida Hotel, LLC
c/o Kevin McKee CFO
4441 Collins Avenue
Miami Beach, FL 33140

27

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Attachment F
Florida Department of Environmental Protection
Proprietary Authorization

Florida Department of Environmental Protection

Southeast District Office
400 N. Congress Avenue, Suite 200
West Palm Beach, FL 33401
(561) 681-6600

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

Jack Long, Director
Southeast District Office

JUL 23 2009

City of Miami Beach
c/o Robert Middaugh-Director of Public Works
1700 Convention Center Drive
Miami Beach, FL 33139

Re: File No.: 13-0295220-001
File Name: City of Miami Beach-Pine Tree Park

Dear Mr. Middaugh:

On April 8, 2009, we received your application and on June 16, 2009, your application was complete for an exemption to perform the following activity: construct a new 29-ft. wide canoe launch ramp with an 18.5 ft. wide opening into Indian Creek. The canoe launch ramp shall be constructed by excavating approximately of 137-cubic yards of upland to (0) NGVD, excavating approximately 9-cubic yards of submerged material to (-2) NGVD past the MHWL, stabilizing the banks of the canoe ramp with 142-linear ft. of vinyl sheet piles, and relocating approximately 5-cubic yards of submerged rock revetment to either side of the opening of the canoe ramp, 2.5-cubic yards per side. Spoils will be removed and deposited on a self-contained, upland spoil site, which will prevent the escape of the spoil material and return water from the spoil site into wetlands or other surface waters. Turbidity control barriers shall be placed around the project area at all times to prevent turbidity and toxic or deleterious substances from discharging into adjacent waters. The project is located on the Indian Creek, within the Biscayne Bay Aquatic Preserve, Class III Waters, Outstanding Florida Waters, at Pine Tree Park, between 4411 and 4521 Pine Tree Drive, Miami Beach (Section 23, Township 53 South, Range 42 East), in Miami-Dade County (N 25° 49' 7.02" / W 80° 7' 27.13").

Your application has been reviewed to determine whether it qualifies for any of three kinds of authorization that may be necessary for work in wetlands or waters of the United States. The kinds of authorization are (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 **may not** have qualified for all three forms of authorization. If your project did not qualify for one or more of the authorizations, refer to the specific section dealing with that authorization for advice on how to obtain it.

1. **Regulatory Review. – [VERIFIED]**
The Department has the authority to review your project under Part IV of Chapter 373, Florida Statutes (F.S.), Title 62, Florida Administrative Code (F.A.C.), and in accordance with operating agreements executed between the Department and the water management districts, as referenced in Chapter 62-113, F.A.C.

Based on the information you submitted, we have determined that your project to install a boat ramp is exempt from the need to obtain a DEP Environmental Resource Permit under Rule 40E-4.051(3)(e), F.A.C.

2. **Proprietary Review (related to state-owned lands). – [GRANTED]**
The Department acts as staff to the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees) and issues certain authorizations for the use of sovereignty submerged lands. The Department has the authority to review your project under Chapters 253 and 258, F.S., 18-18 and 18-21, F.A.C., and Section 62-343.075, F.A.C.

Your project will occur on sovereignty submerged land and will require authorization from the Board of Trustees to use public property. As staff to the Board of Trustees, we have reviewed the proposed project and have determined that, as long as it is located within the described boundaries and is consistent with the attached general consent conditions, the project qualifies for a letter of consent to use sovereignty submerged lands. Therefore, pursuant to

Chapter 253.77, Florida Statutes, you may consider this letter as authorization from the Board of Trustees to perform the project.

3. **Federal Review (State Programmatic General Permit). – [NOT GRANTED]**
Federal authorization for the proposed project is reviewed by DEP pursuant to an agreement between the Department and the U.S. Army Corps of Engineers (Corps). The agreement is outlined in a document titled *Coordination Agreement Between the U.S. Army Corps of Engineers and the Florida Department of Environmental Protection State Programmatic General Permit, Section 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act.*

Your project has been reviewed for compliance with a State Programmatic General Permit (SPGP). As shown on the attached drawings, the proposed project is not consistent with the SPGP program. A copy of your application has been sent to the Corps who may require a separate permit. Failure to obtain their authorization prior to construction could subject you to enforcement action. For further information, contact the Corps directly.

The determinations in this letter are based solely on the information provided to the Department and on the statutes and rules in effect when the application was submitted. The determinations are effective only for the specific activity proposed. These determinations shall automatically expire if site conditions materially change or if the governing statutes or rules are amended. In addition, any substantial modifications in your plans should be submitted to the Department for review, as changes may result in a permit being required. In any event, this determination shall expire after one year.

This letter does not relieve you from the responsibility of obtaining other permits (federal, state, or local) that may be required for the project.

NOTICE OF RIGHTS OF SUBSTANTIALLY AFFECTED PERSONS

This letter acknowledges that the proposed activity is exempt from ERP permitting requirements under Rule 40E-4.051(3)(e), F.A.C. This determination is final and effective on the date filed with the Clerk of the Department unless a sufficient petition for an administrative hearing is timely filed under sections 120.569 and 120.57 of the Florida Statutes as provided below. If a sufficient petition for an administrative hearing is timely filed, this determination automatically becomes only proposed agency action subject to the result of the administrative review process. Therefore, on the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. The procedures for petitioning for a hearing are set forth in the attached notice.

This determination is based on the information you provided the Department and the statutes and rules in effect when the application was submitted and is effective only for the specific activity proposed. This determination shall automatically expire if site conditions materially change or the governing statutes or rules are amended. In addition, any substantial modifications in your plans should be submitted to the Department for review, as changes may result in a permit being required. In any event, this determination shall expire after one year.

Be advised that your neighbors and other parties who may be substantially affected by the proposed activity allowed under this determination of exemption have a right to request an administrative hearing on the Department's decision that the proposed activity qualifies for this exemption. Because the administrative hearing process is designed to redetermine final agency action on the application, the filing of a petition for an administrative hearing may result in a final determination that the proposed activity is not authorized under the exemption established under Rule 40E-4.051(3)(e), F.A.C.

The Department will not publish notice of this determination. Publication of this notice by you is optional and is not required for you to proceed. However, in the event that an administrative hearing is held and the Department's determination is reversed, proceeding with the proposed activity before the time period for requesting an administrative hearing has expired would mean that the activity was conducted without the required permit.

If you wish to limit the time within which all substantially affected persons may request an administrative hearing, you may elect to publish, at your own expense, the enclosed notice (Attachment A) in the legal advertisement section of a newspaper of general circulation in the county where the activity is to take place. A single publication will suffice.

If you wish to limit the time within which any specific person(s) may request an administrative hearing, you may provide such person(s), by certified mail, a copy of this determination, including Attachment A.

For the purposes of publication, a newspaper of general circulation means a newspaper meeting the requirements of sections 50.011 and 50.031 of the Florida Statutes. In the event you do publish this notice, within seven days of publication, you must provide to the following address proof of publication issued by the newspaper as provided in section 50.051 of the Florida Statutes. If you provide direct written notice to any person as noted above, you must provide to the following address a copy of the direct written notice.

Florida Department of Environmental Protection
Southeast District
Submerged Lands & Environmental Resources Program
400 N. Congress Ave., Suite 200
West Palm Beach, FL 33401

If you have any questions, please contact Daniel Moretz at 561/681-6761 or at Daniel.Moretz@dep.state.fl.us. When referring to your project, please use the FDEP file name and number listed above.

Sincerely,

7/23/09

Jill M. King
Environmental Manager
Submerged Lands & Environmental
Resources Program

Enclosures

cc: FDEP Compliance and Enforcement, Don Keirn
FDEP Coastal and Aquatic Managed Areas, Pam Sweeny
USACOE Miami-Dade, Rosalinda Rodriguez, Rosalinda.Rodriguez@usace.army.mil
Miami-Dade County DERM, Elaine Pietryak, pietre@miamidade.gov
Coastal Systems International, Inc., Penny Cutt, pcutt@coastalsystemsint.com

Attachment A **File No.:** 13-0295220-001

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF DETERMINATION OF EXEMPTION

The Department of Environmental Protection gives notice that the project to: construct a new 29-ft. wide canoe launch ramp with an 18.5 ft. wide opening into Indian Creek which shall be constructed by excavating approximately 137-cubic yards of upland to (0) NGVD, excavating approximately 9-cubic yards of submerged material to (-2) NGVD past the MHWL, stabilizing the banks of the canoe ramp with 142-linear ft. of vinyl sheet piles, and relocating approximately 5-cubic yards of submerged rock revetment to either side of the opening of the canoe ramp, 2.5-cubic yards per side, located on Indian Creek, within the Biscayne Bay Aquatic Preserve, Class III Waters, Outstanding Florida Waters, at Pine Tree Park, between 4411 and 4521 Pine Tree Drive, Miami Beach (Section 23, Township 53 South, Range 42 East), in Miami-Dade County (N 25° 49' 7.02" / W 80° 7' 27.13"), has been determined to be exempt from requirements to obtain an environmental resource permit.

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 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Mediation is not available.

If a timely and sufficient petition for an administrative hearing is filed, other persons whose substantial interests will be affected by the outcome of the administrative process have the right to petition to intervene in the proceeding. Intervention will be permitted only at the discretion of the presiding officer upon the filing of a motion in compliance with rule 28-106.205 of the Florida Administrative Code.

In accordance with rule 62-110.106(3), F.A.C., petitions for an administrative hearing must be filed within 21 days of publication of the notice or receipt of written notice, whichever occurs first. Under rule 62-110.106(4) of the Florida Administrative Code, 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 prior to the applicable deadline. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon. Upon motion by the requesting party showing that the failure to file a request for an extension of time before the deadline was the result of excusable neglect, the Department may also grant the requested extension of time.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition for an administrative hearing within the appropriate time period shall constitute a waiver of that right.

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

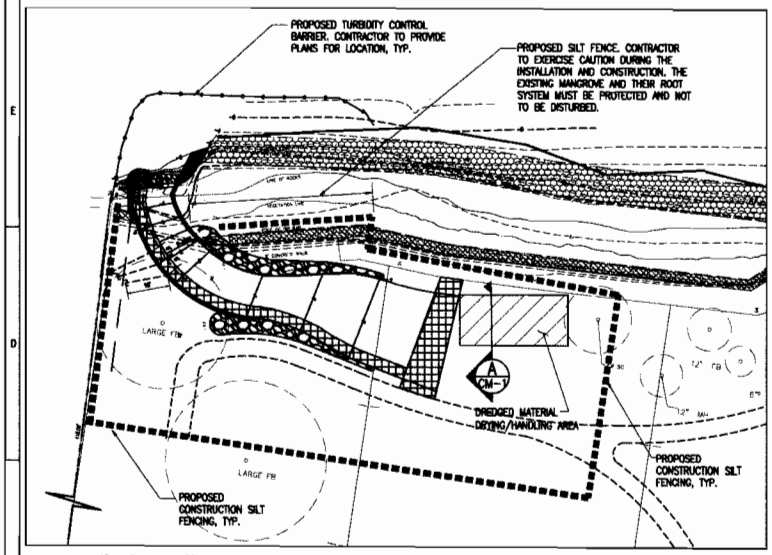
(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes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

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

Under sections 120.569(2)(c) and (d) of the Florida Statutes, a petition for administrative hearing shall be dismissed by the agency if the petition does not substantially comply with the above requirements or is untimely filed.

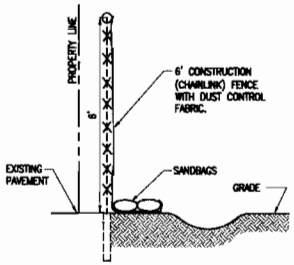
Complete copies of all documents relating to this determination of exemption are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, at the Southeast District office, 400 North Congress Avenue, West Palm Beach, Florida.

Attachment G
Spoil Management and Turbidity Control Plans

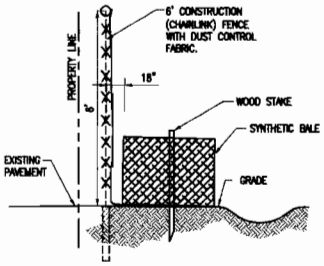


10 0 20
SCALE IN FEET
1" = 20'

PLAN VIEW
SCALE: 1" = 20'



ALTERNATIVE 1

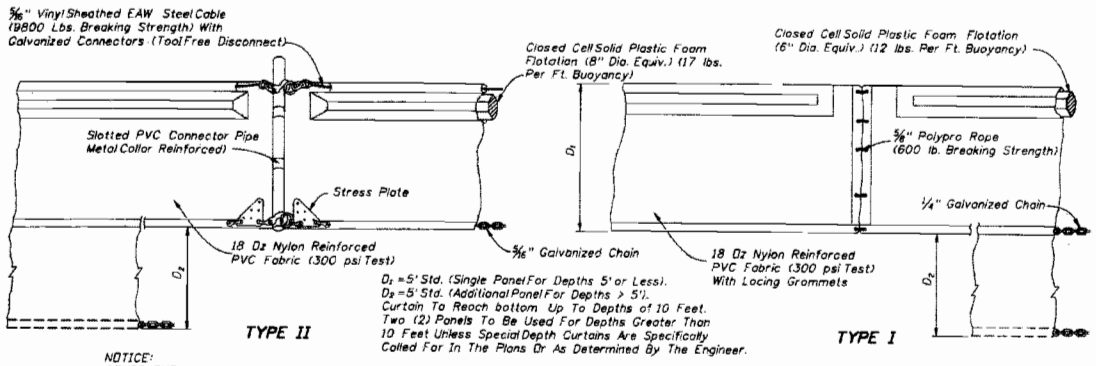


ALTERNATIVE 2

FENCE DETAIL WITH SEDIMENT TRAP

NOTE: ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT SET FORTH IN S. 62-40.432, F.A.C., THE APPLICABLE STORMWATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT, AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND ANY SUBSEQUENT AMENDMENTS.

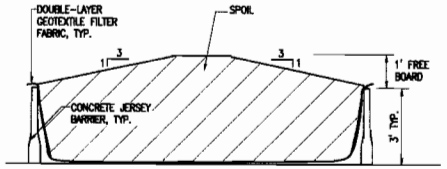
CALL 48 HOURS BEFORE DIGGING
CALL TOLL FREE
1-800-432-4770
SUNSHINE STATE ONE CALL OF FLORIDA, INC.



D_1 = 5' Std. (Single Panel For Depths 5' or Less).
D_2 = 5' Std. (Additional Panel For Depths > 5').
Curtain To Reach bottom Up To Depths of 10 Feet.
Two (2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Are Specifically Called For In The Plans Or As Determined By The Engineer.

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 ENGINEER.

FLOATING TURBIDITY BARRIERS



DREDGED MATERIAL DRYING/HANDLING NOTES:

1. EXCAVATED MATERIAL WILL BE PLACED INTO THE MATERIAL HANDLING AREA FOR DRYING AND LOADING ONTO DUMP TRUCKS FOR HAULING OFF SITE.
2. THE HANDLING AREA WILL BE CONFIGURED WITH STACKED CONCRETE BARRIERS AND FILTER CLOTH AND CONFIGURED/RELOCATED AS NECESSARY FOR CONSTRUCTION STAGING.
3. THE BARRIERS AND FILTER CLOTH WILL LIMIT SOLIDS DISCHARGE FROM EXCAVATED MATERIAL PLACED IN THE MATERIAL HANDLING AREA AND PROMOTE SPOIL DRYING.
4. TRUCKING WILL BE SCHEDULED TO OPTIMIZE DRYING TIME AND TO MAINTAIN PRODUCTION WITH EXCAVATION OPERATIONS.

SECTION - MATERIAL HANDLING
A / CM-1
SCALE: N.T.S.

NOTE:
ALL SCALES INDICATED PERTAIN TO FULL SIZE DRAWINGS (22"x34")

PINE TREE PARK SHORELINE IMPROVEMENTS

CITY OF MIAMI BEACH
1700 CONVENTION CENTER DRIVE
MIAMI, FL 33139

COASTAL SYSTEMS INTERNATIONAL, INC.
484 South Dixie Highway
Coral Gables, Florida 33146
Tel: 305-661-3655
Fax: 305-661-1914
www.CoastalSystemsInt.com
State of Florida EB #7087
Coastal, Environmental, Civil Engineering and Management

CONSULTANTS

ISSUE	DATE	DESCRIPTION
1	07-07-08	DEP/DERM RAI COMMENTS

PROJECT NO: 200310.01
DATUM: NGVD
DRAWN BY: SW
CHECKED BY: OB

ENGINEER OF RECORD

DRAWING NOT VALID WITHOUT EMBOSSED SEAL

T.K. BLANKENSHIP
FL. REG. 55910

SPOIL MANAGEMENT & TURBIDITY AND EROSION CONTROL PLAN

CM-1
1 OF 1 SHEETS

F:\Project\200310.01\Construction Drawings\Working\200310.01-MATERIAL-HANDLING.dwg

39

Attachment H
Project Report

PROJECT REPORT

CLASS I PERMIT APPLICATION NO. 2009-CLIPER-00106

CLASS I PERMIT APPLICATION BY THE CITY OF MIAMI BEACH FOR THE EXCAVATION OF ONE HUNDRED TWENTY-FIVE (125) CUBIC YARDS OF UPLAND SEDIMENT AND NINE (9) CUBIC YARDS OF SEDIMENT BELOW THE MEAN HIGH WATER LINE TO CREATE A PUBLIC KAYAK LAUNCH AT PINETREE PARK ON THE INDIAN CREEK WATERWAY

July 28, 2009

Staff's recommendation of approval for the above-referenced permit application is based on the applicable evaluation factors under Section 24-48.3 of the Code of Miami-Dade County (Code), Florida. The following is a summary of the proposed project with respect to each applicable evaluation factor:

1. **Potential Adverse Environmental Impact** – The potential for any adverse environmental impacts from the excavation of one hundred twenty-five (125) cubic yards of upland sediment immediately adjacent to the bay and nine (9) cubic yards of sediment below the mean high water line (MHWL) in order to create the kayak launch is minimal. The proposed work shall result in the excavation of three thousand four hundred (3,400) square feet of an upland public park and one hundred seventy (170) square feet of substrate below the MHWL. Mangroves are present within vicinity of the proposed work. However, the proposed structures are to be constructed within a natural gap in vegetation present along the shoreline at the site. Sparse macroalgae and submerged aquatic vegetation were documented in the area of the proposed excavation below the MHWL. As such, mitigation for impacts associated with the excavation and the installation of the vinyl sheet pile wall shall be required prior to permit issuance. As mitigation for the aforesaid impacts, fifty-nine (59) cubic yards of limerock riprap boulders are required. As it is not feasible to place the riprap at the site due to site conditions, the Miami-Dade County Department of Environmental Resources Management (DERM) has agreed to accept a contribution to the Biscayne Bay Environmental Enhancement Trust Fund in the amount of $5,310. In addition, the Class I permit will require that turbidity control devices such as, but not limited to, silt fencing and turbidity curtains, be utilized during all phases of construction. The Class I permit shall include conditions stating the trimming or alteration of mangroves, buttonwoods or wetland vegetation shall be prohibited.

2. **Potential Cumulative Adverse Environmental Impact** – The proposed project is not reasonably expected to result in potential cumulative adverse environmental impacts.

3. **Hydrology** – The proposed project as designed is not reasonably expected to adversely affect surface water drainage or retention of stormwater.

4. **Water Quality** – The proposed project may affect surface water quality on a temporary basis during the excavation activities. The substrate of the launch will be lined with coarse, crushed shell sand and pea rock, which will be covered with a geotextile mat to reduce water quality impacts and prevent the material from eroding into tidal waters. Long term turbidity is not anticipated due to the coarse grain size of the material, and minimal wave conditions are expected at the site over time. In order to minimize these impacts to the maximum extent possible, the Class I permit will require that turbidity control devices such as, but not limited to, silt fencing and turbidity curtains, be utilized during all phases of construction to ensure compliance with the County's water quality standards for turbidity.

5. **Wellfields** – Not applicable.

6. **Water Supply** – Not applicable.

7. **Aquifer Recharge** – Not applicable.

8. **Aesthetics** – The proposed project is not reasonably expected to have negative aesthetic impacts. However, during the construction process there may be temporary aesthetic impacts related to the presence of machinery and equipment associated with the construction activities.

9. **Navigation** – The proposed project is not reasonably expected to adversely affect navigation.

10. **Public Health** – The proposed project is not reasonably expected to adversely affect public health.

11. **Historic Values** – The proposed project is not reasonably expected to adversely affect historic values.

12. **Archaeological Values** – The proposed project is not reasonably expected to adversely affect archaeological values.

13. **Air Quality** – The proposed project is not reasonably expected to adversely affect air quality.

14. **Marine and Wildlife Habitats** – The proposed project involves the excavation of one hundred twenty-five (125) cubic yards of upland sediment immediately adjacent to the bay and nine (9) cubic yards of sediment below the MHWL. Vegetation located in the vicinity of the project includes *Rhizophora mangle* (Red Mangroves), *Avicennia germinans* (Black Mangroves), and *Laguncularia racemosa* (White Mangroves). However, the proposed project has been designed to be located within a natural gap in the vegetation present along the shoreline at the subject site. Therefore, no adverse environmental impacts to the existing mangroves are anticipated. The applicant has also proposed to remove all exotic vegetation located within the mangrove fringe along the park's shoreline. Sparse macroalgae and submerged aquatic vegetation were documented in the area of the proposed excavation below the MHWL. As such, mitigation for impacts associated with proposed work shall be required prior to permit issuance (see No. 1 of Project Report). In addition, the Class I permit will require that turbidity control devices such as, but not limited to, silt fencing and turbidity curtains, be utilized during all phases of construction and shall also include conditions stating the trimming or alteration of mangroves, buttonwoods or wetland vegetation shall be prohibited. Finally, the project is not located within an area identified as essential manatee habitat for *Trichechus manatus* (West Indian Manatee) as per the Miami-Dade County Manatee Protection Plan. However, to reduce potential impacts to manatees traversing the area, the applicant is proposing to create a launch to be used exclusively for non-motorized vessels such as kayaks and canoes.

15. **Wetland Soils Suitable for Habitat** – Impacts to wetland soils suitable for habitat shall be minimal.

16. **Floral Values** – The proposed project is not reasonably expected to adversely affect floral values. The proposed work shall result in the excavation one hundred seventy (170) square feet of substrate below the MHWL vegetated with sparse macroalgae and submerged aquatic vegetation. Vegetation located in the vicinity of the project includes Red Mangroves, Black Mangroves, and White Mangroves. However, the proposed structures are to be constructed within a natural gap in vegetation present along the shoreline at the site. Therefore, no adverse environmental impacts to the existing mangroves are anticipated. In addition, in an effort to enhance the park's shoreline, the applicant has proposed to remove all exotic vegetation.

17. **Fauna Values** – The proposed project may cause temporary adverse impacts to marine fauna resulting from turbidity as a result of the construction operations. However these impacts will be minimized to the maximum extent by the implementation of proper turbidity

control devices. The Class I permit will require the applicant to employ appropriate turbidity control devices such as, but not limited to, turbidity curtains during all phases of construction

18. **Rare, Threatened and Endangered Species** – The proposed project is not reasonably expected to result in adverse effects to rare, threatened or endangered species. The proposed project is not located within an area identified by the Miami-Dade County Manatee Protection Plan as essential manatee habitat for the West Indian Manatee. However, to reduce potential impacts to manatees traversing the area, the applicant has proposed to create a launch to be used for non-motorized vessels; therefore no adverse impacts to manatees are anticipated. In addition, the project site is located in an area of Biscayne Bay designated as critical habitat for *Halophila johnsonii* (Johnson's seagrass), a Federally Listed Threatened Species. However, this seagrass was not observed in the vicinity of the proposed work.

19. **Natural Flood Damage Protection** – The proposed project is not reasonably expected to adversely affect surface water drainage or retention of stormwater.

20. **Wetland Values** – The proposed project will not result in the net gain or loss of wetland values.

21. **Land Use Classification** – Pursuant to Section 24-48.2(II)(A)(7), of the Code of Miami-Dade County, Florida, a substantiating letter shall be submitted stating that the proposed project does not violate any zoning laws. Said letter shall be submitted after the approval by the Board of County Commissioners and prior to the issuance of a Class I permit.

22. **Recreation** – The proposed project does not conflict with the recreation elements of the Miami-Dade County Comprehensive Development Master Plan and the Biscayne Bay Management Plan.

23. **Other Environmental Values Affecting the Public Interest** – The proposed project includes the enhancement of the park's shoreline through the removal of exotic vegetation present throughout the mangrove fringe at this site. Furthermore, since this project will occur over State-owned submerged lands, the Florida Department of Environmental Protection has granted proprietary authorization for the use of said lands (see Attachment F).

24. **Conformance with Standard Construction Procedures and Practices and Design and Performance Standards** – The proposed project complies with the standard construction procedures and practices and design and performance standards of the applicable portions of the following:

    a) Miami-Dade County Public Works Manual
    b) Biscayne Bay Management Plan (Sections 33D-1 through 33D-4 of the Code of Miami-Dade County)
    c) Chapter 33B of the Code of Miami-Dade County

25. **Comprehensive Environmental Impact Statement (CEIS)** – In the opinion of the Director, the proposed project will result in neither adverse environmental impacts nor cumulative adverse environmental impacts. Therefore, a CEIS was not required by DERM to evaluate the project.

26. **Conformance with All Applicable Federal, State and Local Laws and Regulations** – The proposed project is in conformance with the following applicable State, Federal and local laws and regulations:

    a) Rule 40E-4, Florida Administrative Code (FAC)
    b) United States Clean Water Act (US Army Corps of Engineers permit is required)
    c) Florida Department of Environmental Protection Regulations (permit is required)
    d) Chapter 24 of the Code of Miami-Dade County

27. **Conformance with the Miami-Dade County Comprehensive Development Master Plan (CDMP)** – In the opinion of DERM, the proposed project is in conformance with the CDMP. The following is a summary of the proposed project as it relates to the CDMP:

LAND USE ELEMENT I:

Objective 2/Policy 2A – Level of Service. The proposed project does not involve new or significant expansion of existing urban land uses.

Objective 3/Policies 3A, 3B, 3C – Protection of natural resources and systems. – The proposed project is consistent with the Conservation and Coastal Management Elements of the CDMP. The proposed project is compatible with surrounding land uses in Biscayne Bay and does not involve development in the Big Cypress area of Critical State concern or the East Everglades.

TRANSPORTATION ELEMENT II

Aviation Subelement/Objective 9 – Aviation System Expansion - There is no aviation element to the proposed project.

Port of Miami River Subelement/Objective 3 – Minimization of impacts to estuarine water quality and marine resources. The proposed project is not located within the Miami River.

CONSERVATION, AQUIFER RECHARGES AND DRAINAGE ELEMENT IV:

Objective 3/Policies 3A, 3B, 3D – Wellfield protection area protection. – The proposed project is not located within a wellfield protection area.

Objective 3/Policy 3E – Limestone mining within the area bounded by the Florida Turnpike, the Miami-Dade/Broward Levee, N.W. 12 Street and Okeechobee Road. – The proposed project is not located within this area.

Objective 4/Policies 4A, 4B, 4C – Water storage, aquifer recharge potential and maintenance of natural surface water drainage. – The proposed project will not adversely affect water storage, aquifer recharge potential or natural surface water drainage. The proposed project does not involve positive drainage of wetland area and will not affect water storage or aquifer recharge potential.

Objective 5/Policies 5A, 5B, 5F – Flood protection and cut and fill criteria. – The proposed project does not compromise flood protection, involve filling for development purposes, and is not related to cut and fill activities.

Objective 6/Policy 6A – Areas of highest suitability for mineral extraction. – The proposed project is not located in an area proposed or suitable for mineral extraction.

Objective 6/Policy 6B – Guidelines for rock quarries for the re-establishment of native flora and fauna. – The proposed project is not located in a rock quarry.

Objective 6/Policy 6D – Suitable fill material for the support of development. – The proposed project does not involve filling for the purposes of development.

Objective 7/Policy 7A – No net loss of high quality, relatively unstressed wetlands. – The proposed project will not result in a net loss of any such wetlands.

Objective 9/Policies 9A, 9B, 9C – Protection of habitat critical to Federal or State-designated threatened or endangered species. – The proposed project is not expected to negatively affect rare, threatened and/or endangered species. The proposed project is not located within an area identified by the Miami-Dade County Manatee Protection Plan as essential manatee habitat for the West Indian Manatee.

COASTAL MANAGEMENT ELEMENT VII:

Objective 1/Policy 1A – Tidally connected mangroves in mangrove protection areas – The project is not located within a designated "Mangrove Protection Area."

Objective 1/ Policy 1B – Natural surface flow into and through coastal wetlands. – The project will not affect natural surface flow into and through coastal wetlands.

Objective 1/ Policy 1C – Elevated boardwalk access through mangroves. – The proposed project does not involve the installation of an elevated boardwalk.

Objective 1/Policy 1D – Protection and maintenance of mangrove forests and related natural vegetational communities. – Mangroves and other halophytic wetland vegetation are present adjacent to the proposed work. However, the proposed kayak launch shall be located within a natural gap in the shoreline, free of said vegetation. In addition, the Class I permit shall include conditions stating the trimming, or alteration of mangroves, buttonwoods or wetland vegetation is prohibited.

Objective 1/Policy 1E – Mitigation for the degradation and destruction of coastal wetlands. Monitoring and maintenance of mitigation areas. – The proposed project does not involve the degradation and destruction of halophytic wetlands and therefore does not involve monitoring of mitigation for impacts to halophytic wetlands.

Objective 1/Policy 1G – Prohibition on dredging or filling of grass/algal flats, hard bottom or other viable benthic communities, except as provided for in Chapter 24 of the Code of Miami-Dade County, Florida. – The proposed project does not involve the dredging or filling of grass/algal flats, hard bottom or other viable benthic communities.

Objective 2/Policies 2A, 2B – Beach restoration and renourishment objectives. - The proposed project does not involve beach restoration or renourishment.

Objective 3/Policy 3E, 3F – Location of new cut and spoil areas for proper stabilization and minimization of damages. – The proposed project does not involve the development or identification of new cut or spoil areas.

Objective 5/Policy 5B – Existing and new areas for water-dependent uses. – The proposed project involves the construction of a public kayak launch for non-motorized vessels such as kayaks and/or canoes and will enhance existing water-dependent uses associated with the existing property.

Objective 5/Policy 5D – Consistency with Chapter 33D of the Code of Miami-Dade (shoreline access, environmental compatibility of shoreline development) – The Shoreline Development Review Committee has evaluated the proposed project and determined that the thresholds for review under the Shoreline Ordinance do not apply and the proposed project is not subject to shoreline development review.

Objective 5/Policy 5F – The siting of water dependent facilities. – The proposed project does not involve the creation of any new water dependent facilities.

28. **Conformance with Chapter 33B, Miami-Dade County Code** (East Everglades Zoning Overlay Ordinance) – The proposed project is not located within the East Everglades Area.

29. **Conformance with Miami-Dade County Ordinance 81-19** (Biscayne Bay Management Plan Sections 33D-1 through 33D-4) – The proposed project is in conformance with the Biscayne Bay Management Plan.

30. **Conformance with the Miami-Dade County Manatee Protection Plan** – The proposed project is consistent with the recommendations of the Miami-Dade County Manatee Protection Plan. The proposed project is not located within an area identified by the Miami-Dade County Manatee Protection Plan as essential manatee habitat for the West Indian Manatee. However, to reduce potential impacts to manatees traversing the area the applicant is proposing to create a launch to be used exclusively for non-motorized vessels such as kayaks and canoes.

31. **Consistency with Miami-Dade County Criteria for Lake Excavation** – The proposed project does not involve lake excavation.

32. **Municipality Recommendation** – Pursuant to Section 24-48.2(II)(A)(7), Code of Miami-Dade County, Florida, a substantiating letter shall be submitted stating that the proposed project does not violate any zoning laws. Said letter shall be submitted after the approval by the Board of County Commissioners and prior to the issuance of the Class I permit.

33. **Coastal Resources Management Line** – A coastal resources management line was not required for the proposed project, pursuant to Section 24-48.2(II)(A)(10)(b) of the Code of Miami-Dade County, Florida.

34. **Maximum Protection of a Wetland's Hydrological and Biological Functions** – The proposed project is not expected to impact wetland hydrological and biological functions.

35. **Class I Permit Applications Proposing to Exceed the Boundaries Described in Section D-5.03(2)(a) of the Miami-Dade County Public Works Manual** – DERM has considered the following factors:

i) **Whether the proposed exceedance is the minimum necessary to avoid seagrasses or other valuable environmental resources** – Not applicable.
ii) **Whether the proposed exceedance is the minimum necessary to achieve adequate water depth for mooring of a vessel** – Not applicable.
iii) **Whether the applicant has provided notarized letters of consent to DERM from adjoining riparian property owners** – Not applicable.
iv) **Whether any letters of objection from adjoining riparian property owners were received by DERM** – Not applicable.

The proposed project was also evaluated for compliance with the standards contained in Section 24-48.3(2),(3), and (4) of the Code of Miami-Dade County, Florida. The following is a summary of how the standards relate to the proposed project:

24-48.3 (2) Dredging and Filling for Class I Permit – The proposed project complies with the following criteria:

- Minimum dredging and filling for the creation and maintenance of marinas, piers, docks and attendant navigational channels.

24-48.3 (3) Minimum Water Depth Required for Boat Slips Created by the Construction or Placement of Fixed or Floating Docks and Piers, Piles and Other Structures Requiring a Permit Under Article IV, Division 1 of Chapter 24 of the Code of Miami-Dade County – The proposed project complies with the water depth requirements set forth in Section 24-48.3(3) of the Code of Miami-Dade County.

24-48.3 (4) Clean Fill in Wetlands – The proposed project does not involve the placement of fill in wetlands.

BASED ON THE FOREGOING, IT IS RECOMMENDED THAT A CLASS I PERMIT BE APPROVED.

Lisa Spadafina

Lisa Spadafina, Manager
Coastal Resources Section

Elaine Pietryak

Elaine Pietryak, Biologist II
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