

# **Miami River Commission Public Meeting Minutes December 5, 2022**

The Miami River Commission's (MRC) public meeting convened at noon, December 5, 2022, in the Downtown Library Auditorium, 101 W Flagler. Sign in sheets are attached.

**Miami River Commission (MRC) Policy Committee Members and/or Designees attending:**

Horacio Stuart Aguirre, Chairman, Miami River Commission  
Megan Kelly, designee for City of Miami Mayor Francis Suarez  
Eddie Marti Kring, designee for Miami-Dade County Commissioner Eileen Higgins  
Mercedes Librada Rodriguez, designee for City of Miami Commissioner Alex Diaz de la Portilla  
Patty Harris, designee for Governor  
T. Spencer Crowley, III, Member at Large Appointed by City of Miami Commission  
Bruce Brown, Miami River Marine Group  
Sandy O'Neil, designee for Greater Miami Chamber of Commerce  
Tom Kimen, designee for Neighborhood Representative Appointed by City Commission  
Alvaro Coradin, designee for Sara Babun  
John Michael Cornell, designee for Member at Large Appointed by the Governor  
Philip Everingham, designee for Marine Council

**MRC Staff:**

Brett Bibeau, Managing Director

## **I) Chair's Report**

The Miami River Commission unanimously adopted their November 7 public meeting minutes.

MRC Chairman Horacio Stuart Aguirre provided the following report:

The Miami River Commission applauds the Honorable Governor Ron DeSantis, Senator Ileana Garcia, the Florida Legislature, and the Florida Department of Environmental Protection, for awarding \$600,000 in a competitive grant program to improve water quality in the Miami River portion of the Biscayne Bay Aquatic Preserve. The funding will be used for the following:

1. The Scavenger Water Decontamination Vessel removes floating debris while significantly improving water quality via decontaminating 600,000 gallons of water per hour and injecting 150,000 liters of oxygen per hour into the Miami River (\$35,000)
2. Contracting private sector vacuum trucks to provide supplemental maintenance of the State, County and City's stormwater systems (\$300,000)
3. Manual labor picking up garbage along the drains, curbs and gutters, just before it enters the Miami River's stormwater system (\$165,000)
4. Street Sweeper Truck Services (\$100,000)

“Miami” is a Tequesta word meaning “sweet water”, which historically emanated from the Miami River. Thanks to this strongly appreciated assistance from the State of Florida, together with our other public and private sector partners, we will make the Miami River “sweet water” once again.

The Miami River Commission has been actively assisting the efforts of the City, County, State, and private sector to clean up the Miami River District. In addition to the maintenance professionals the MRC pays daily to remove litter, invasive plant species, graffiti and provide landscaping and pressure washing services along the Miami River, the MRC thanks the volunteers from Hands on Miami for picking up garbage along the public Riverwalk in Curtis Park on November 20.

I thank all the advertisers whom renewed their support in the 12<sup>th</sup> Annual Miami River 2023 Calendar which has been distributed.

In addition, before you is the Miami River Commission’s 2022 Annual Report.

The free 24<sup>th</sup> Annual Miami Riverday will be held April 1, 2023, 1-6 PM, Lummus Park, 250 NW North River Drive, featuring free oat rides, live music, environmental education, historic reenactors, children’s activities, food and drinks.

The next public MRC meeting is January 9, 2023, noon, 101 W Flagler.

## **II) City of Miami Planning Department Presentation of Amendments to the Comprehensive Plan to Address the “Peril of Flood” Requirements From Florida Statute**

Sue Trone and Ryan Shedd, City of Miami Planning Department, presented the City of Miami’s proposed amendments to the Comprehensive Plan as required by the 2015 Florida Legislature’s adopted “Peril of Flood” Amendment. MRC Subcommittee Chairman Murley applauded the City of Miami’s excellent efforts. Chairman Murley stated after completing the Water Resource Action Plan (WRAP) the County will consider working with the City to create an Adaptive Action Area (AAA) Plan for the Miami River District.

**The MRC adopted a unanimous resolution noting the proposed new Objective “LU 6.2 The City will adopt one resilient neighborhood every two years to decrease vulnerabilities to seas level rise and climate change through sustainable land use planning and infrastructure development” and recommended approval of the entire presented item while encouraging the Miami River District neighborhoods be adopted as resilient neighborhoods (i.e. Durham Park, Grove Park, Little Havana, Allapattah, Overtown, Downtown, Spring Garden, etc.), and allowing public expenditures of Marine Infrastructure.**

### **III) Long Term Update Regarding 17 and 22 Ave Bridges**

The MRC Urban Infill Subcommittee's distributed November 30, 2022 public meeting minutes state: "MRC Managing Director Brett Bibeau stated several MRC board members, Miami River residents and business owners have been asking for more information and a public discussion regarding the 17 Ave and 22 Ave Bridges. Mr. Bibeau distributed Miami-Dade County's fact sheet for the 17 Ave bridge repair project, which is estimated to be completed between March and June 2023. Mr. Bibeau noted Miami-Dade County contracted for a PD&E study is required to be completed before replacing the 17 Ave Bridge. Currently there is significant traffic on 22 Ave, therefore Mr. Bibeau suggested the County consider conducting a traffic analysis of 22 Ave while 17 Ave Bridge is still closed, and then implement the traffic analysis recommendations prior to commencing the upcoming replacement of the 17 Ave Bridge. In addition, Mr. Bibeau stated it is his understanding that the County's aging 22 Ave Bridge will need to be replaced, and considering the entire process from start to finish can take 10 years, perhaps it was time to start that conversation as well, while we first stay focused on the 17 Ave Bridge, both of which should have a majority Federal / State cost share. Mr. Bibeau extended a cordial invitation for Miami-Dade County to present the item during the MRC's December 5 public meeting."

Ryan Fisher, Miami Dade County Public Works, stated he agreed with MRC Director Bibeau's suggestion for the County to conduct a traffic analysis of 22 Ave ASAP, while 17 Ave Bridge is still closed, and then implement the traffic analysis recommendations prior to commencing the upcoming replacement of the 17 Ave Bridge. Mr. Fisher stated the County will try to expedite the 17 Ave PD&E which usually takes over 3 years to complete, and the estimated cost to replace the bridge is \$100 million.

### **IV) New Business**

The public meeting adjourned.

# Miami River Commission Public Meeting

December 5, 2022 - Noon

Miami-Dade County Library, 101 W Flagler ST

Name	Organization	Telephone	Email
Sandy O'Neil	GMCC	(305) 773-4535	oneilgarnick@gmail.com
Mihaela Dragan	-	(630) 330-8903	mihaela@mihaeladragan.com
Louise Isalgue	river	786-597-8067	
Brett Bibeau	MRC	305 6440544	brettbibeau@mianirivercommission.org
Horacio Stuart Asuirre	MRC		
MICHAEL ANTICZAK	CS	305 613 5880 786-315-0289	MICHAEL.R.ANTICZAK@GMAIL.COM
Martin Culver	Self	305-334-3213	martinculver@gmail.com
Mark Bailey	MRCMG	37057777	markbailey@miamirivermarinegroup.org
Ryan Fisher	MDC DTPW	786-421-5264	Ryan.FISHER@MIAMI-DADE.GOV
Ryan Shedd	City of Miami - Planning	305-416-1315	rshedd@miamigov.com
Suz Trone	City of Miami Planning	305-416-1445	strone@miamigov.com
Nancy Jackson	OCR/MDC	786-747-1977	nancy.jackson@miamidade.gov
JACQUE BROWN	MRCMG	305/788 6411	bauc402@bellsoth.net
Mercedes Rodriguez	District 1		Muri0121@gmail.com
Megan Kelly	City of Miami Mayor		megan.kelly065@gmail.com
Eddie Marti-Kraig	C.ET Office / MDC / OS		Eddie Marti-Kraig@miamidade.gov

Miami River Commission Public Meeting

December 5, 2022 - Noon

Miami-Dade County Library, 101 W Flagler ST

Name	Organization	Telephone	Email
PHIL EVERINGHAM	MRC/MARINE COUNCIL	305 951-9096	phemsdd@hotmail.com
Spencer Crowley	FIND	305 982 5549	ts Crowley@aicw- org
Tom KIMEN	MRC	305-992 4590	T Kimes3@aol.com
JOHN CORNELL	MRC	(580)214-1475	jmurnell@ zordyinterests.com
PATRICIA HARRIS	MRC	305-262-3763	PATTIRAKE@GMAIL.COM
Miguel SORIA	DTPW	3-375-2863	Miguel.Soria@miamidade.gov

## **Miami River Commission's Stormwater Subcommittee Public Virtual Workshop Minutes December 7, 2022**

The Miami River Commission (MRC) Stormwater Subcommittee's quarterly virtual workshop convened at 10 AM on December 7, 2022. Attendees included Anita Nash, FDEP, Ely Estevez, City of Miami, Omar Abdelrahman and Juliet Ruggiero, DERM, Patty Harris, MRC, and Brett Bibeau, MRC Managing Director.

**I. "Miami River Basin Water Quality Improvement Plan" Agency Quarterly Implementation Progress Reports** – Mr. Omar Abdelrahman, Miami Dade County's Department of Environmental Resource Management's (DERM) provided a report covering July – September 2022. The most alarming water quality violation was detected at Wagner Creek testing station WC04 in July had E-coli. of 39,700 (cfu/100ml) when the safe water quality standard is only 410 (cfu/100ml).

### **II. Update Regarding "Vacuum Truck, Street Sweepers, and Scavenger Water Decontamination Vessel" Grant Application to FDEP**

MRC Director Bibeau thanked FDEP for awarding the MRC's submitted application for \$600,000 in grant funding from the State's FY 22-23's \$20 million for improving water quality in the Biscayne Bay Aquatic Preserve, by increasing frequency of vacuum truck services in stormwater manholes along the Miami River (\$300,000), landside garbage pickups (\$165,000), street sweeper truck (\$100,000) and Scavenger Water Decontamination Vessel services (\$35,000) along the Miami River. The stormwater system was identified as a source of pollution in the County's recent helpful Miami River Water Quality Assessment, which was reviewed during the MRC Stormwater Subcommittee's June quarterly public virtual workshop.

The MRC SSC's next quarterly virtual workshop will be March 1, 2023, 10 AM.

The virtual workshop adjourned.



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

220270.06

August 11, 2021

Mr. Jason Andreotta  
**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
3301 Gun Club Road  
Mail Stop 4250  
West Palm Beach, FL 33406

*Via ePermitting*

**RE: FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) ENVIRONMENTAL RESOURCE PERMIT (ERP) FOR THE PROPOSED SEWELL PARK SEAWALL PROJECT (PROJECT) LOCATED AT 1815 AND 1525 NW SOUTH RIVER DRIVE, MIAMI, MIAMI-DADE COUNTY, FLORIDA**

Dear Mr. Andreotta:

On behalf of the Application, the City of Miami, this is to respectfully submit a Environmental Resource Permit (ERP) application for the proposed Sewell Park Seawall Project (Project), located at 1815 and 1825 NW South River Drive, in the City of Miami, Miami-Dade County, Florida. To facilitate processing of this permit application, the following items are enclosed:

1. A completed FDEP ERP Application; Section A, C and F.
2. A proposed Project permit sketches from Coastal Systems International, Inc., dated June 29, 2021.
3. A digitally signed and sealed boundary and topographic survey from Miller Legg, dated April 27, 2021.

#### **BACKGROUND & PROJECT DESCRIPTION**

The Project site consists of a City owned public park with historical value. Approximately 4 acres of the 10.33 acre park is covered in dense trees. The Project site has an approximate 1,200 linear feet of shoreline along the Miami River and adjoining canal. The existing shoreline has a protective rip rap barrier which goes beyond the mean-high water line (MHWL) The Applicant is proposing to install stallation of approximately 1,245 linear feet of new steel sheetpile 18" from the existing MHWL, 122 linear feet of ecoseawall, 3 econcrete tide pools, a kayak launch within the existing basin with a new wood ramp and 1,196 linear feet of Baywalk. The proposed project use would be for public recreational activites, with a Baywalk consistent with existing baywalks along the City of Miami. The proposed shoreline stabilization is proposed at an elevation of + 6 NAVD to meet future sea level rise and resilience.

220270.60  
Mr. Jason Andreotta  
August 11, 2021  
Page 2

### ENVIRONMENTAL EVALUATION AND MITIGATION

Due to the location of the Project along the Miami River, impacts to marine resources are not anticipated as a result of this Project. As mitigation for potential water quality impacts associated with vertical bulkhead installation, a contribution to the Biscayne Bay Environmental Enhancement Trust Fund is proposed (amount to be confirmed by Miami-Dade County).

Staked and/or weighted floating turbidity curtains, extending to within one (1) foot from the bottom will be utilized around the Project area to ensure that any turbidity resulting from construction activities will be contained within the Project boundaries. All construction will comply with the "2011 Standard Manatee Conditions".

### SCHEDULING & CONSTRUCTION

The Applicant plans to commence construction early 2023, after issuance of all required County, State, Federal, and Local permits. Estimated Project completion dates are within 12 months of Project commencement. A coordinated effort with staff, including the Applicant's submittal of timely responses to requests for additional information, will be required to meet the Applicant's schedule.

Construction will be completed from the uplands with the sheetpiles being driven with a vibratory hammer. Existing rip rap will be kept and included in the project scope, with a singular line of boulders being removed for the the steel sheetpile to be driven into appropriate depths. The kayak launch will be retrofitted into the existing basin with a wood ramp that will assist with the transition from the proposed seawall elevation to the existing grade into the water.

Thank you for your assistance in processing this ERP Permit Application. We look forward to working with you and your staff on this Project. Should you have any questions or require additional information, please do not hesitate to contact me at 305-661-3655 ext. 143, or via email at [irodriguez@coastalsystemsint.com](mailto:irodriguez@coastalsystemsint.com).

Sincerely,  
**COASTAL SYSTEMS INTERNATIONAL, INC.**



Ivelis Rodriguez  
Environmental/Permitting Project Manager

IR: ts  
Enclosures  
cc: Marisol Martinez, City of Miami Office of Capital Improvements



**ATTACHMENT E-2**

**WATERWAYS ASSISTANCE PROGRAM FY 2020  
PROJECT APPLICATION  
APPLICANT INFORMATION – PROJECT SUMMARY**

APPLICANT INFORMATION			
<b>Applicant:</b> City of Miami			
<b>Department:</b> Office of Capital Improvements			
<b>Project Title:</b> Sewell Park - Phase 1 – Seawall /Shoreline Stabilization and Baywalk			
<b>Project Director:</b> Carlos Lozano		<b>Title:</b>	Senior Project Manager
<b>Project Liaison:</b> <i>(if different from Project)</i>	Lillian Blondet	<b>Title:</b>	Director, Grants Administration
<b>Mailing Address:</b>		444 SW 2nd Avenue, 5th Floor	
<b>City:</b> Miami		<b>Zip Code:</b>	33130
<b>Email Address:</b> lblondet@miamigov.com		<b>Phone #:</b>	305-416-1536
<b>Project Address:</b>		1815 NW S River Drive, Miami, FL 33125	

\*\*\*\*\* I hereby certify that the information provided in this application is true and accurate. \*\*\*\*\*

DATE: 3/26/2020

SIGNATURE

**PROJECT NARRATIVE** (Please summarize the project in space provided below in 2 paragraphs or less.)

The City of Miami is requesting funding for Phase 1, design and permitting of 1400 linear feet of new seawall/living shoreline, replacement and addition of riprap and 900 linear feet of baywalk. A seawall/living shoreline does not currently exist at the project site. The riprap that exists needs replacement, and additional riprap needs to be incorporated into the project. In order to address the low-lying project site, shoreline stabilization, drainage and high-tide resiliency elements will be incorporated. Currently, there is no baywalk in the project site, so incorporating a baywalk with the seawall/shoreline stabilization will establish pedestrian connectivity.

The City of Miami is requesting \$408,595 in grant funding (50% of the total eligible project costs) for this project. The City is committed to providing 50% match from the Office of Capital Improvement.

**ATTACHMENT E-3 - PROJECT INFORMATION 2020**

<b>Applicant:</b> City of Miami		<b>Project Title:</b> Sewell Park-Phase 1– Seawall /Shoreline Stabilization and Baywalk	
<b>Total Project Cost:</b> \$1,127,537	<b>FIND Funding Requested:</b> \$408,595	<b>% of Total Cost:</b> 50% (eligible)	
<b>Amount and Source of Applicant’s Matching Funds:</b>	The cost of the project is \$1,127,537. There are \$817,190 in eligible costs. The total project costs include \$310,347 in ineligible administrative costs. The City of Miami is allocating matching funds in the amount of \$408,595 or 50% of the total eligible project costs. These matching funds are currently available in the Office of Capital Improvement (OCI).		

**1. Ownership of Project Site (check one):** Own:  Leased:  Other:

**2. If leased or other, please describe lease or terms and conditions:**

**3. Has the District previously provided assistance funding to this project or site?** Yes:  No:

**4. If yes, please list:**

Sewell Park Kayak Launch – Phase 1 in 2006 and Sewell Park Kayak Launch – Phase 2 in 2007.

**5. What is the current level of public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk (etc.)? (as applicable):**

The project site currently offers no public access in terms of the number of boat ramps, boat slips and trailer parking spaces, linear feet of boardwalk, and other facilities to facilitate public access. Only a small kayak launch ramp is available.

**6. How many additional ramps, slips, parking spaces or other access features will be added by this project?**

This project will add 1 seawall/shoreline stabilization and 1 baywalk. The design will also facilitate access to the kayak launch.

**7. Are fees charged for the use of this project?** No  Yes  \*\*

\*\*If yes, please attach additional documentation of fees and how they compare with fees from similar public & private facilities in the area.

**Please list all Environmental Resource Permits required for this project:**

AGENCY	Yes / No / N/A	Date Applied For	Date Received
WMD	N/A	N/A	N/A
DEP	Yes	N/A	N/A
ACOE	Yes	N/A	N/A

**ATTACHMENT E-4**

**WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

DIRECTIONS: All applicants will complete questions 1 through 6, and then based on the type of project, complete one and only one subsection (E-4A, B, C, D or E) for questions 7-10.

**\*\*Please keep your answers brief and do not change the pagination of Attachment E-4\*\***

All other sub-attachments that are not applicable to an applicant's project should not be included in the submitted application.

<b>Project Title:</b>	Sewell Park - Phase 1 – Seawall /Shoreline Stabilization and Baywalk
<b>Applicant:</b>	City of Miami

**1) PRIORITY LIST:**

- a) **Denote the priority list category of this project from Attachment C in the application.** (The application may only be of **one** type based upon the predominant cost of the project elements.)

This application will address the District Priority #12: Public waterfront parks and boardwalks and associated improvements.

- b) **Explain how the project fits this priority category.**

The proposed project will allow the City of Miami to add a new seawall/shoreline stabilization, add a new baywalk, replace and add new riprap, and high tide resiliency for access to the ICW.

*(For reviewer only)*  
 Max. Available Score for application      45

*Question 1. Range of Score (1 to 3 points)*

**2) WATERWAY RELATIONSHIP:**

- a) Explain how the project relates to the ICW and the mission of the Navigation District.**

This project supports the mission of the Navigational District by providing increased access to the Miami River and the ICW and recreation for navigating the ICW. The project aligns directly with its mission to provide for local governmental waterway improvement projects.

- b) What public access or navigational benefit to the ICW or adjoining waterway will result from this project?**

The project, located in a waterfront park, will provide improved public access into Biscayne Bay and the nearby ICW. It will also promote the use of the waters that lead to the ICW.

*(For reviewer only)*  
*(1-6 points)*

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**3) PUBLIC USAGE & BENEFITS:**

- a) How is the public usage of this project clearly identified and quantified? Estimate the amount of total public use.**

The project area is municipally owned and open to the public at no cost. This project will provide proper access to a popular and steadily used resource in the City. The estimated amount of total public use is 30,000 people per year.

- b) Discuss the regional and local public benefits that will be provided by the project. Can residents from other counties of the District reasonably access and use the project? Explain.**

The project will provide easy access to Biscayne Bay and the ICW. Residents from other counties of the District will also benefit from the project. The park is not restricted to local residents and welcomes all visitors.

- c) Are there any restrictions placed on commercial access or use of this site?**

There are no restrictions placed on commercial access or use of this site.

*(For reviewer only)*  
*(1-8 points)*

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**4) TIMELINESS**

- a) Describe current status of the project and present a reasonable and effective timeline for the completion of the project consistent with Attachment E-6.**

The anticipated timeline to complete Phase 1 design and permitting is 24 months.

- Months 0-6 will include contract execution, procurement, bid and award process.
- Months 7-24 will include survey, design and permit services.

- b) Briefly explain any unique aspects of this project that could influence the project timeline.**

There are no unique aspects of the project that could influence the timeline.

*(For reviewer only)*  
*(1-3 points)*

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**5) COSTS & EFFICIENCY:**

- a) List funding sources and the status and amount of the corresponding funding that will be utilized to complete this project.**

The cost of the project is \$1,127,537. The City of Miami is allocating matching funds in the amount of \$408,595 (eligible costs) plus OCI Administrative costs of \$310,347 (ineligible costs) to be provided by OCI.

- b) Identify and describe any project costs that may be increased because of the materials utilized or specific site conditions.**

There are no anticipated increased costs.

- c) Describe any methods to be utilized to increase the cost efficiency of this project.**

The City of Miami will be managing the contracted agency to ensure that permits are completed as quickly as possible.

- d) If there are any fees associated with the use of this facility, please detail. In addition, please provide a listing of the fees charged by similar facilities, public and private, in the project area.**

There are no fees associated with this facility at this time.

*(For reviewer only)*  
*(1-6 points)*

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**6) PROJECT VIABILITY:**

- a) What specific need in the community does this project fill? Is this project referenced or incorporated in an existing maritime management, public assess or comp plan?**

The project fills the community's need for public access to Biscayne Bay and the ICW and maximum use of the waterfront. The 2007 Parks and Open Spaces Master Plan contains a recommendation to provide residents with more access to water. Through the seawall/living shoreline and baywalk this project responds to this recommendation.

- b) Clearly demonstrate how the project will continue to be maintained and funded after District funding is completed.**

The City of Miami, through its Parks and Recreation Department is dedicated to managing and operating the seawall/shoreline stabilization and baywalk upon completion.

- c) Will the program result in significant and lasting benefits? Explain.**

The seawall/shoreline stabilization and baywalk in this project require minimal maintenance and have a life expectancy that will allow the public to benefit from the facilities for years.

- d) Please describe any environmental benefits associated with this project.**

Replacement and addition of riprap and the addition of a new seawall/shoreline stabilization will provide upland and drainage improvements, will stop runoff into the waterway and provide high tide resiliency. The addition of the new seawall/shoreline stabilization and baywalk will eliminate current soil runoff, destabilization and erosion material into the Miami River and Biscayne Bay.

*(For reviewer only)*  
*(1-7 points)*

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SUB-TOTAL \_\_\_\_\_

**ATTACHMENT E-4A  
DEVELOPMENT & CONSTRUCTION PROJECTS  
WATERWAYS ASSISTANCE PROGRAM  
APPLICATION AND EVALUATION WORKSHEET**

THIS ATTACHMENT IS TO BE COMPLETED IF YOUR PROJECT IS A  
DEVELOPMENT OR CONSTRUCTION PROJECT BUT IS NOT AN INLET  
MANAGEMENT OR BEACH RENOURISHMENT PROJECT.

**7) PERMITTING:**

- a) Have all required environmental permits been applied for? (USACE, DEP and WMD)  
If permits are NOT required, explain why not.**

Permits have not been applied for. The City of Miami will be meeting with, Florida Department of Environmental Protection, Environment and Regulatory Affairs (DPERA) and Corps of Engineers regarding the project and required permits to be obtained during this phase of the project.

- b) If the project is a Phase I project, list the tasks scheduled to obtain the necessary permits and engineering work and provide a general cost estimate for the future Phase II work.**

Initial tasks include surveying and field monitoring, engineering analysis, regulatory compliance and final engineering design. Phase II is estimated to cost \$6,904,370 for the construction of the facilities, pending the results of initial tasks completed by the selected marine engineering firm.

- c) Detail any significant impediments that may have been identified that would potentially delay the timely issuance of the required permits.**

No impediments are anticipated.

*(For reviewer only)  
(1-4 points)*



# CITY OF MIAMI

OFFICE OF CAPITAL IMPROVEMENTS  
 HECTOR L. BADIA - INTERIM DIRECTOR

## SEWELL PARK SHORELINE IMPROVEMENTS

MIAMI, FL 33125

### PERMIT SET

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP

Mayor  
 Francis Suarez

Commission:  
 Chairman - D5 Commissioner  
 Jeffrey Watson

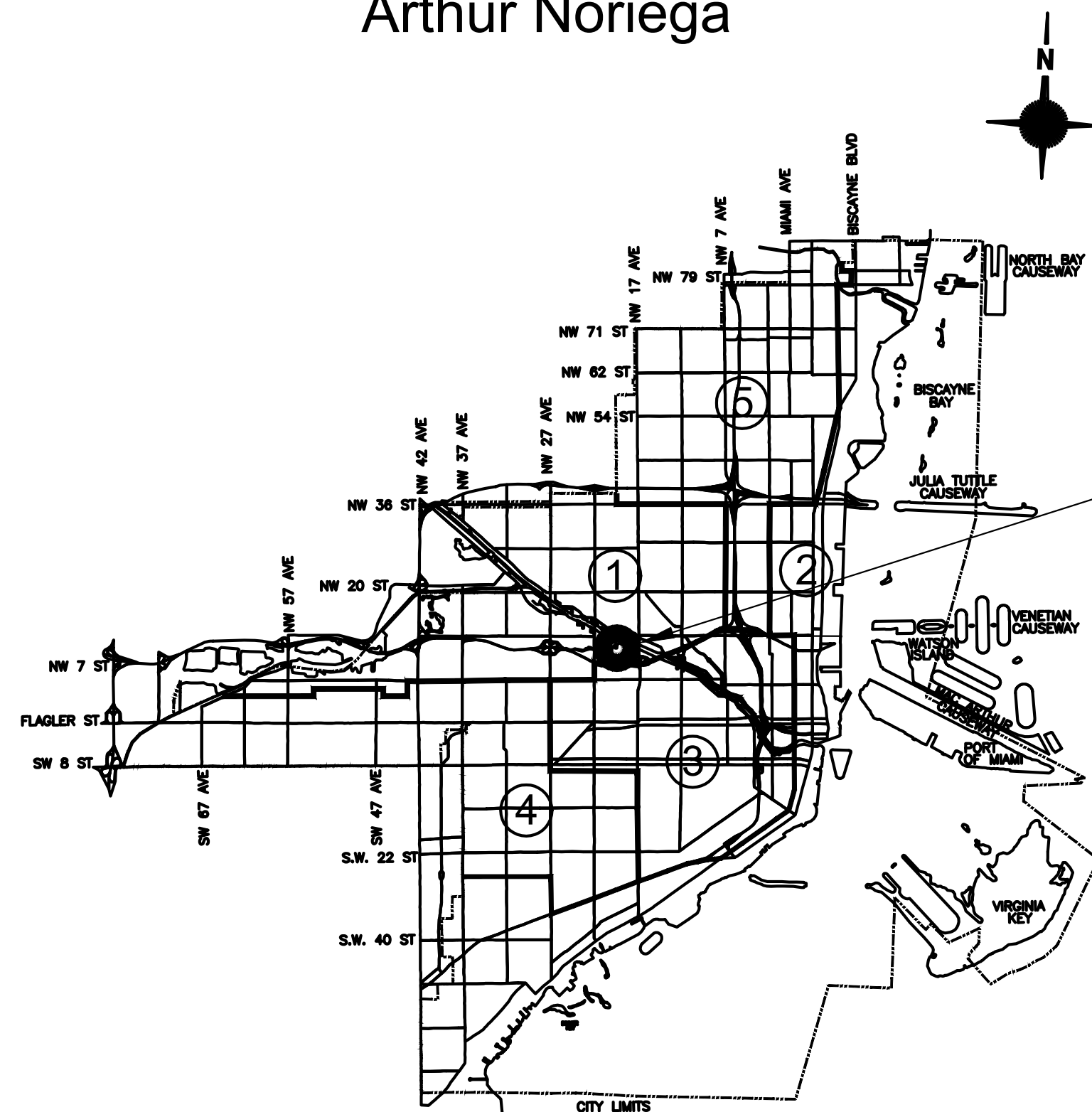
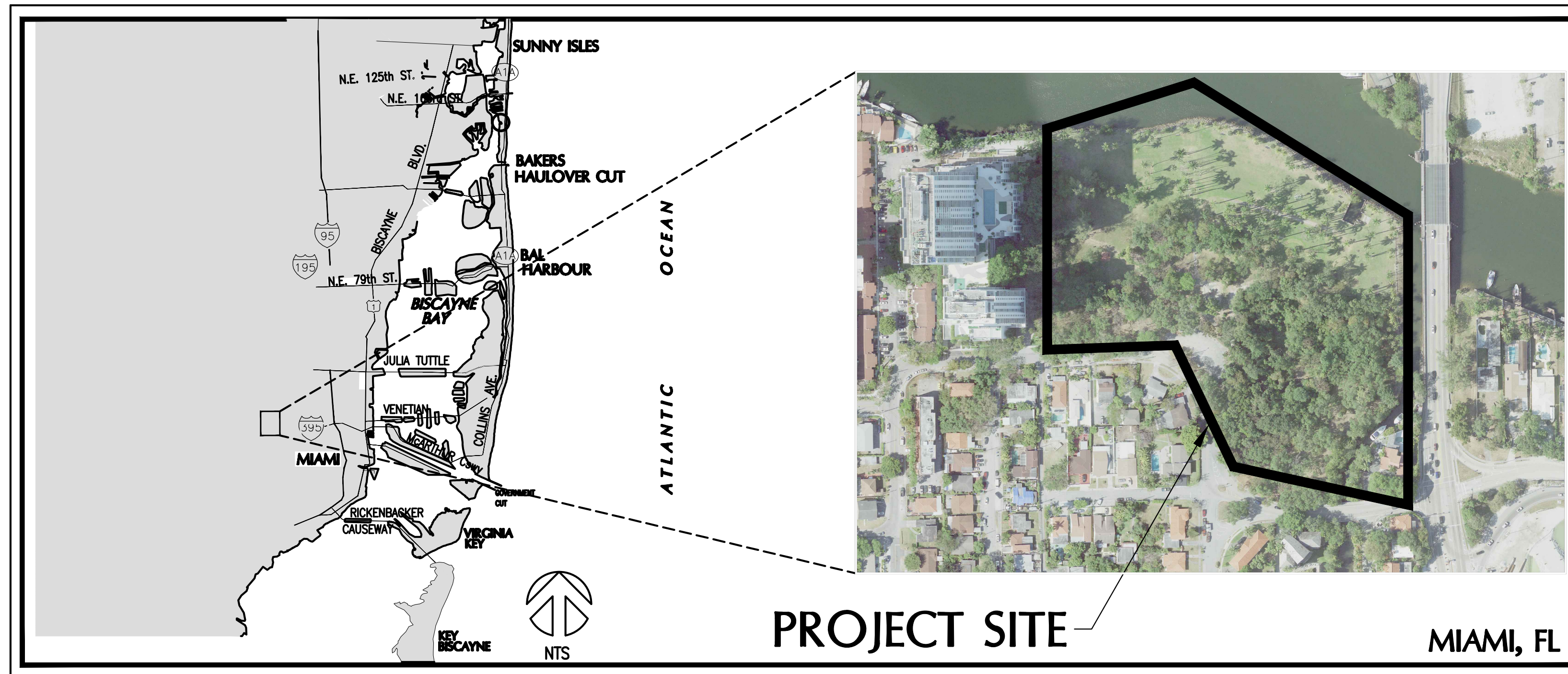
Vice Chairman - D2 Commissioner  
 Ken Russell

D1 Commissioner  
 Alex Diaz de la Portilla

D3 Commissioner  
 Joe Carollo

D4 Commissioner  
 Manolo Reyes

City Manager  
 Arthur Noriega



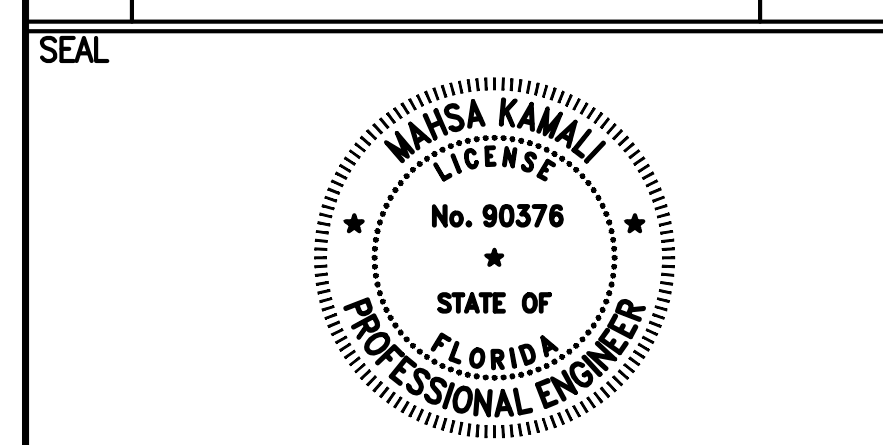
Sheet List Table	
Sheet Number	Sheet Title
G-01	COVER SHEET
G-02	GENERAL NOTES
G-03	EXISTING SITE CONDITIONS
D-01	PROPOSED DEMOLITION PLAN
D-02	DEMOLITION SECTIONS
S-01	PROPOSED OVERALL SITE PLAN
S-02	PROPOSED SITE PLAN - 1
S-03	PROPOSED SITE PLAN - 2
S-04	PROPOSED SECTIONS AND DETAILS - 1
S-05	PROPOSED SECTIONS AND DETAILS - 2
S-06	PROPOSED SECTIONS AND DETAILS - 3
SWPPP-01	STORM WATER POLLUTION PREVENTION PLAN - 1
SWPPP-02	STORM WATER POLLUTION PREVENTION PLAN - 2
SWPPP-03	STORM WATER POLLUTION PREVENTION CONTROL PLAN - 3
SWPPP-04	STORM WATER POLLUTION PREVENTION CONTROL DETAILS



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 464 South Dixie Highway  
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 Tel: 305-661-3655  
 Fax: 305-661-1914  
 www.CoastalSystemsInt.com  
 State of Florida EB #7087  
 Coastal, Environmental,  
 Civil Engineering and Management

PROJECT:  
**SEWELL PARK  
 SHORELINE  
 IMPROVEMENTS**

No.	REVISIONS - SUBMITTALS	DATE
1	30% DESIGN SET	06/14/21
2	PERMIT SET	06/29/21



SHEET No.  
**G-01**      1 OF 15

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**GENERAL NOTES:**

1. THE WORK CONSISTS OF FURNISHING ALL CONSTRUCTION, LABOR, EQUIPMENT AND MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE PARKING LOT IN THE SITE 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 PRE-CONSTRUCTION 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 CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OTHER UPLAND CONTRACTORS ON SITE.
7. FOR LEGEND SYMBOLS REFER TO INDIVIDUAL PLAN SHEETS.

**TOPOGRAPHIC SURVEY NOTES:**

1. TOPOGRAPHIC DATA TAKEN FROM SURVEY PERFORMED BY SURVEY BY J. BONFILL & ASSOCIATES, INC. ON 4/25/17.
2. HORIZONTAL COORDINATES ARE IN FEET AND REFERENCED TO FLORIDA STATE PLANE EAST ZONE (NAD 83).
3. ELEVATIONS ARE IN FEET AND REFERENCED TO THE NATIONAL AMERICAN VERTICAL DATUM OF 1983 (NAVD 83).

**DEMOLITION NOTES:**

1. REMOVE ALL CONCRETE, PAVEMENT SURFACE, AND OTHER OBSTRUCTIONS WITHIN LIMITS OF CONSTRUCTION AS NOTED ON THE DEMOLITION PLAN.
2. ANY SIGNS TO BE REMOVED FOR CONSTRUCTION MUST BE RELOCATED AFTER CONSTRUCTION.

**CONSTRUCTION SAFETY:**

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE OCCUPATION SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) AS WELL AS ANY APPLICABLE LOCAL AND STATE ORDINANCES.

**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 AND WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY.
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.

**INSPECTION:**

1. ALL INSPECTIONS WILL BE DONE BY THE ENGINEER.
2. FOR SITE MEETINGS WITH THE ENGINEER OR FOR FIELD OBSERVATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 24 HOURS PRIOR TO THE INSPECTION OR MEETING.

**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.

**EARTHWORK AND COMPACTION NOTES:**

1. EXISTING ON-SITE BASE MATERIAL SHALL NOT BE REUSED FOR BASE CONSTRUCTION, BUT MAY BE USED FOR BACKFILL AROUND UTILITY AND DRAINAGE LINES, AND FOR SUBGRADE CONSTRUCTION, AND FOR GENERAL FILL AS APPROVED BY THE ENGINEER.
2. ALL SUBGRADE UNDER PAVED AREAS SHALL HAVE A MINIMUM L.B.R. VALUE OF 40 AND SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
3. 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 TO BE PAVED SHALL BE REMOVED.
5. SUITABLE BACKFILL SHALL BE MINIMUM L.B.R. 40 MATERIAL COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 FOR A MINIMUM OF THREE (3) FEET BEYOND THE PERIMETER OF THE PAVING.
6. THE CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING LABORATORY TO PERFORM DENSITY TESTING AT NO ADDITIONAL COST TO THE CITY.

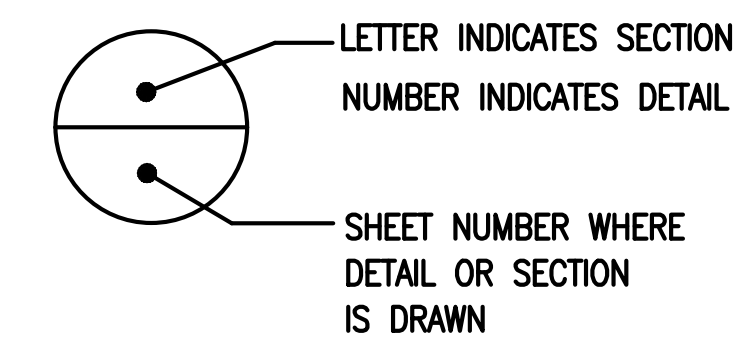
**PAVING NOTES:**

1. ALL REQUIRED DENSITY AND L.B.R. TEST RESULTS FOR LIMEROCK SHALL BE PROVIDED TO AND APPROVED BY THE ENGINEER OF RECORD AND THE PERMITTING AGENCIES PRIOR TO PLACING ASPHALT.
2. ALL EXISTING PAVEMENT CUT OR DAMAGED BY CONSTRUCTION SHALL BE PROPERLY RESTORED AT CONTRACTOR'S EXPENSE.
3. BASE COURSE SHALL BE CRUSHED LIMEROCK IN ACCORDANCE WITH FDOT SPECIFICATION 200.
4. ALL LIMEROCK BASE UNDER PAVED AREAS SHALL HAVE A MINIMUM L.B.R. VALUE OF 100, AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
5. LIMEROCK BASE MATERIAL SHALL BE IN THE COMPACTION THICKNESS SHOWN ON THE PLANS AND SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T180-C.
6. LIMEROCK BASE MATERIAL SHALL BE PLACED IN MAXIMUM 6" LIFTS. BASES GREATER THAN 6" SHALL BE PLACED IN TWO OR MORE EQUAL LIFTS.
7. THE FINISHED SURFACE OF THE PAVEMENT SHALL NOT VARY MORE THAN 1/8" FROM THE EXISTING. ANY IRREGULARITIES EXCEEDING THIS LIMIT SHALL BE CORRECTED.
8. DENSITY TESTS SHALL BE TAKEN BY AN INDEPENDENT TESTING LABORATORY AS DIRECTED BY THE ENGINEER AND THE PERMIT AGENCY.

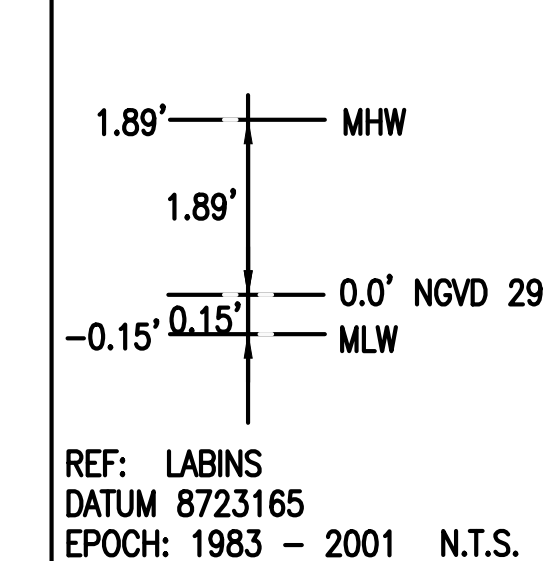
**ABBREVIATIONS**

ALUM. _____ ALUMINUM	HDG. _____ HOT DIPPED GALVANIZED
B. _____ BOTTOM	HKS. _____ HOOKS
APPROX. _____ APPROXIMATE	I.J. _____ ISOLATION JOINT
CJP _____ COMPLETE JOINT PENETRATION	MAX. _____ MAXIMUM
C.J. _____ CONTROL JOINT	MID. _____ MIDDLE
CL _____ CENTER LINE	MIN. _____ MINIMUM
CLR. _____ CLEAR	MHW _____ MEAN HIGH WATER
CONC. _____ CONCRETE	MLW _____ MEAN LOW WATER
CONT. _____ CONTINUOUS	NGVD _____ NAT'L GEODETIC VERTICAL DATUM
CTD _____ CENTERED	OA _____ OVERALL
DIA./Ø _____ DIAMETER	O.C. _____ ON CENTER
EA. _____ EACH	P.E. _____ PROFESSIONAL ENGINEER
E.F. _____ EACH FACE	PSF _____ POUNDS PER SQUARE FOOT
E.J. _____ EXPANSION JOINT	PSI _____ POUNDS PER SQUARE INCH
EOR _____ ENGINEER OF RECORD	SS _____ STAINLESS STEEL
ELEV. _____ ELEVATION	STL. _____ STEEL
EW _____ EACH WAY	T _____ TOP
EXIST./EX. _____ EXISTING	T&B _____ TOP & BOTTOM
FRP _____ FIBER REINFORCED PLASTIC	TYP. _____ TYPICAL
GALV. _____ GALVANIZED	U.N.O. _____ UNLESS NOTED OTHERWISE

**SECTION DETAIL LABEL**



**DATUM DIAGRAM**



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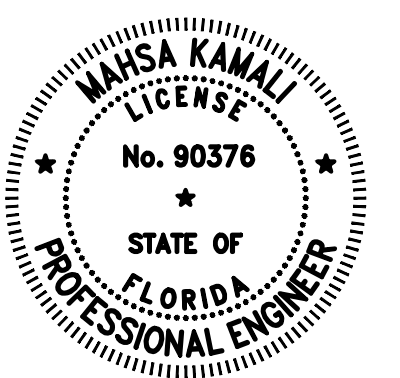


SEWELL PARK  
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MIAMI, FL 33125

GENERAL NOTES

SHEET TITLE:

CONSULTANT SPACE



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2	PERMIT SET	06/29/21
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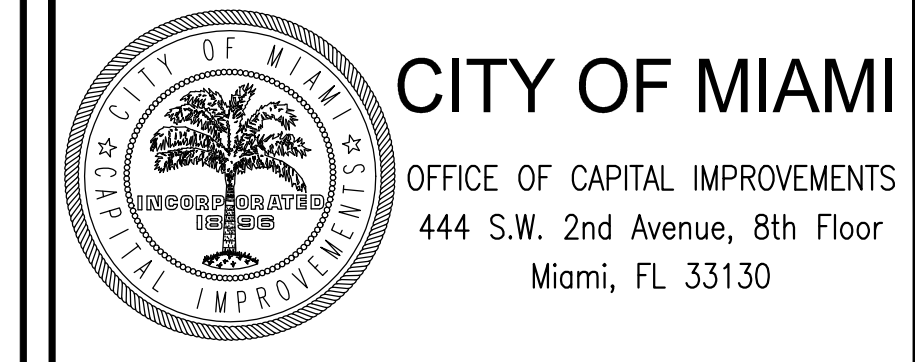
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0 60' 120'  
SCALE: 1" = 60'

**EXISTING SITE CONDITIONS**  
SCALE: 1" = 60'

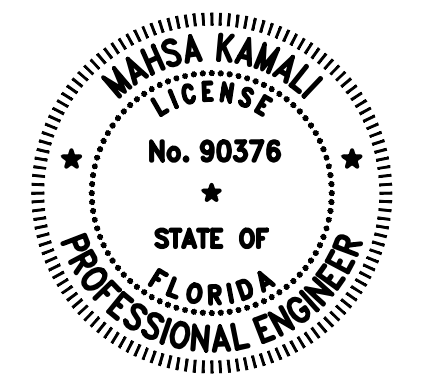
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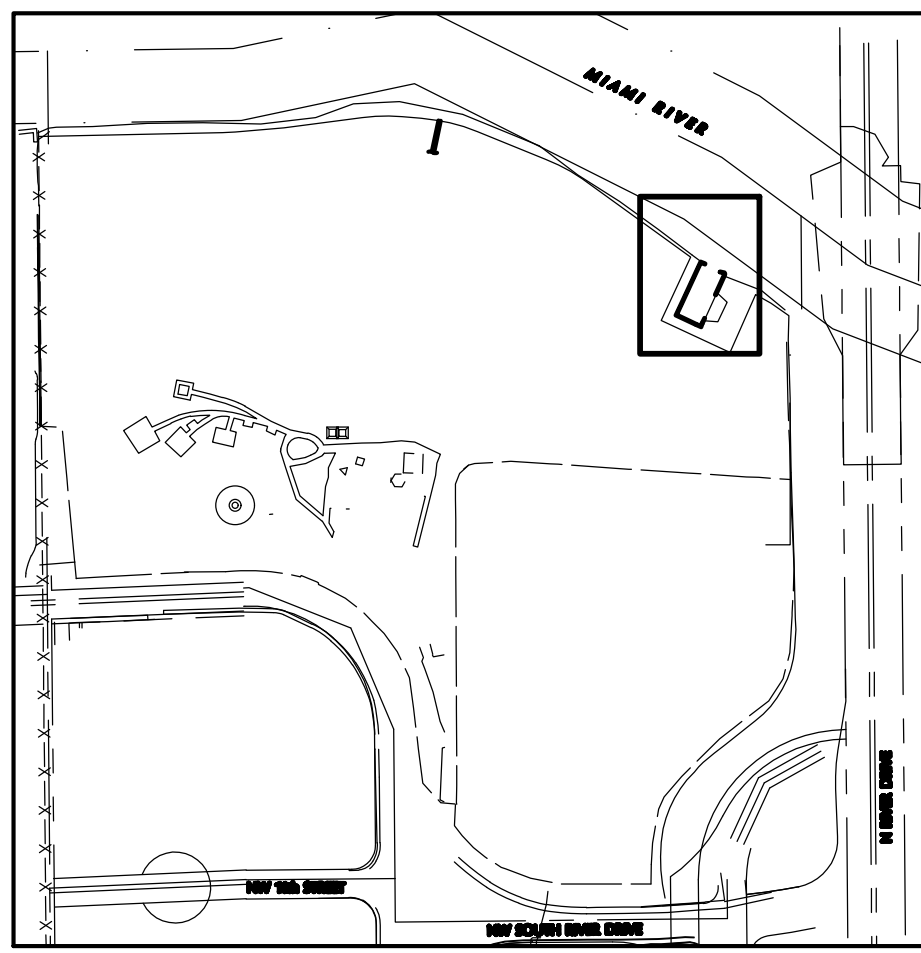
**EXISTING SITE CONDITIONS**

CONSULTANT SPACE



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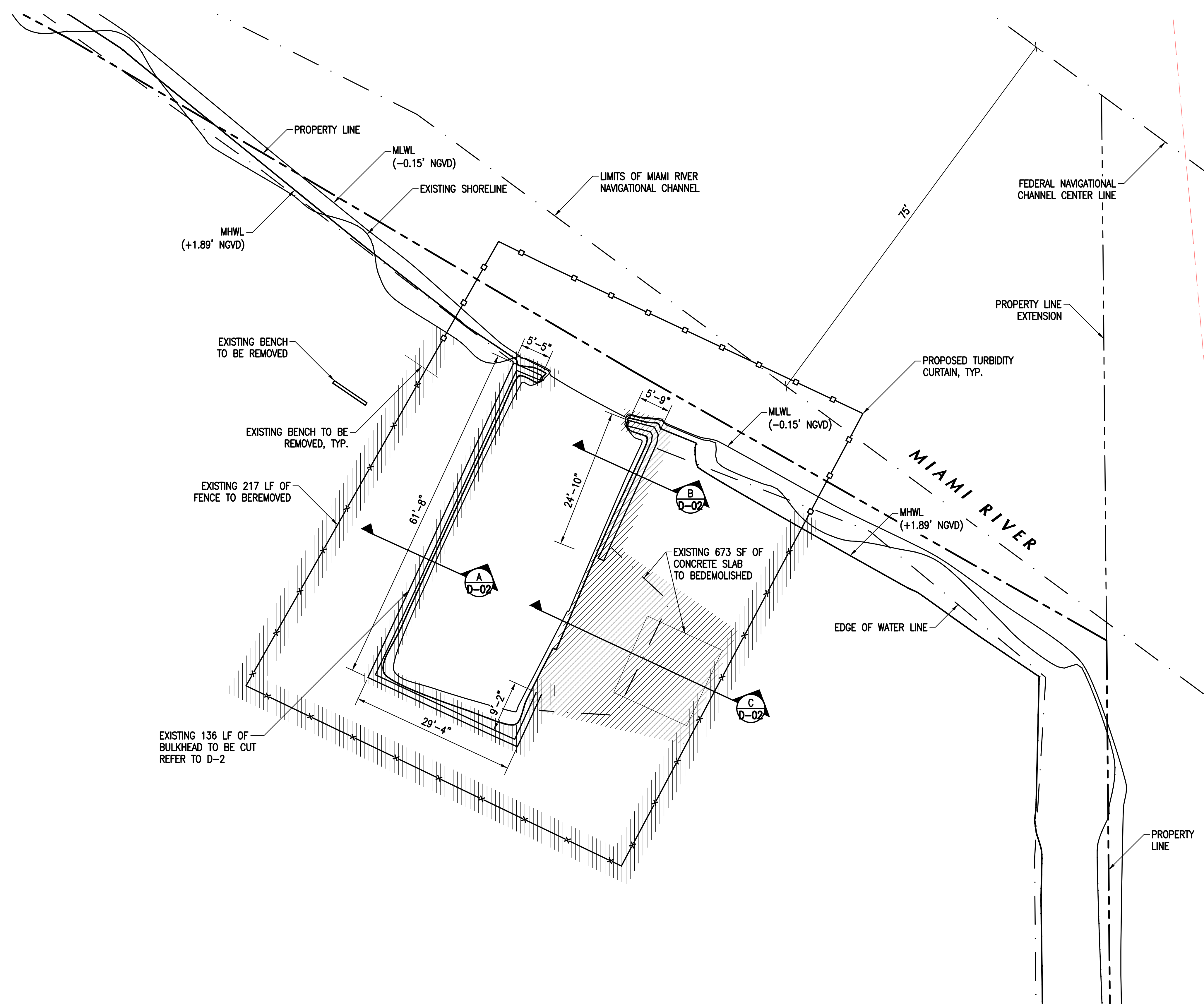
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**KEY PLAN**

0 200' 400'

SCALE: 1" = 200'-0"



- NOTES**
- EXISTING RIP RAP ALONG SHORELINE TO BE REARRANGED TO FACILITATE SHEET PILE INSTALLATION.
  - TREES WITHIN PROPOSED BAYWALK FOOTPRINT TO BE REMOVED OR RELOCATED

0 10' 20'  
SCALE: 1" = 10'



**PROPOSED DEMOLITION PLAN**

SCALE: 1" = 10'

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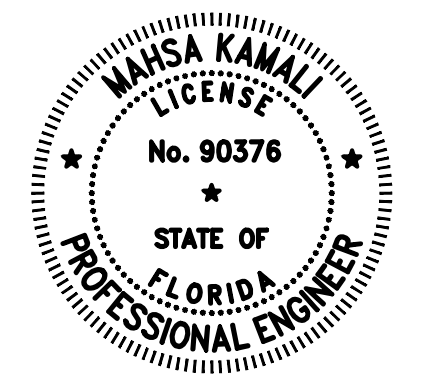


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**PROPOSED DEMOLITION PLAN**

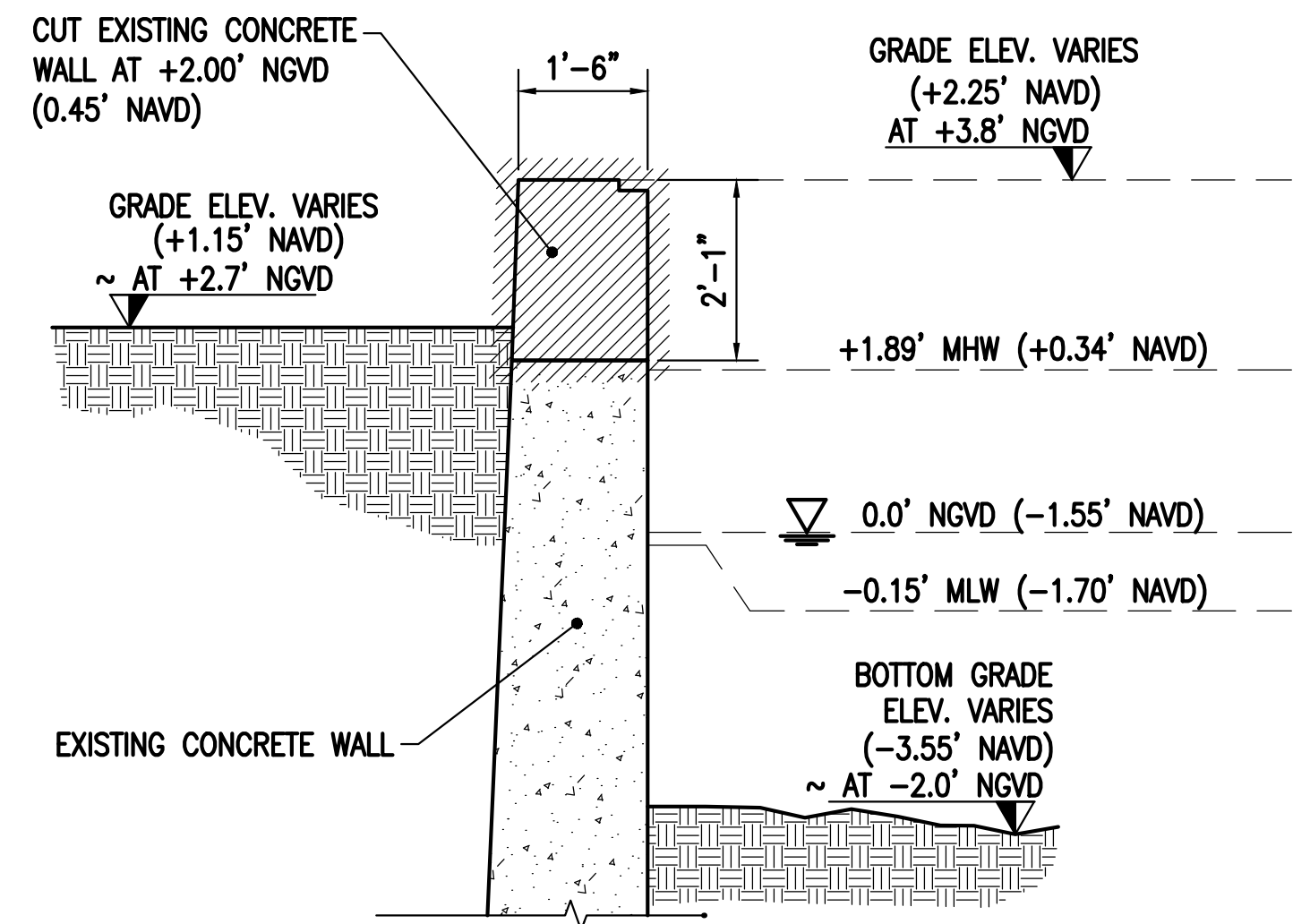
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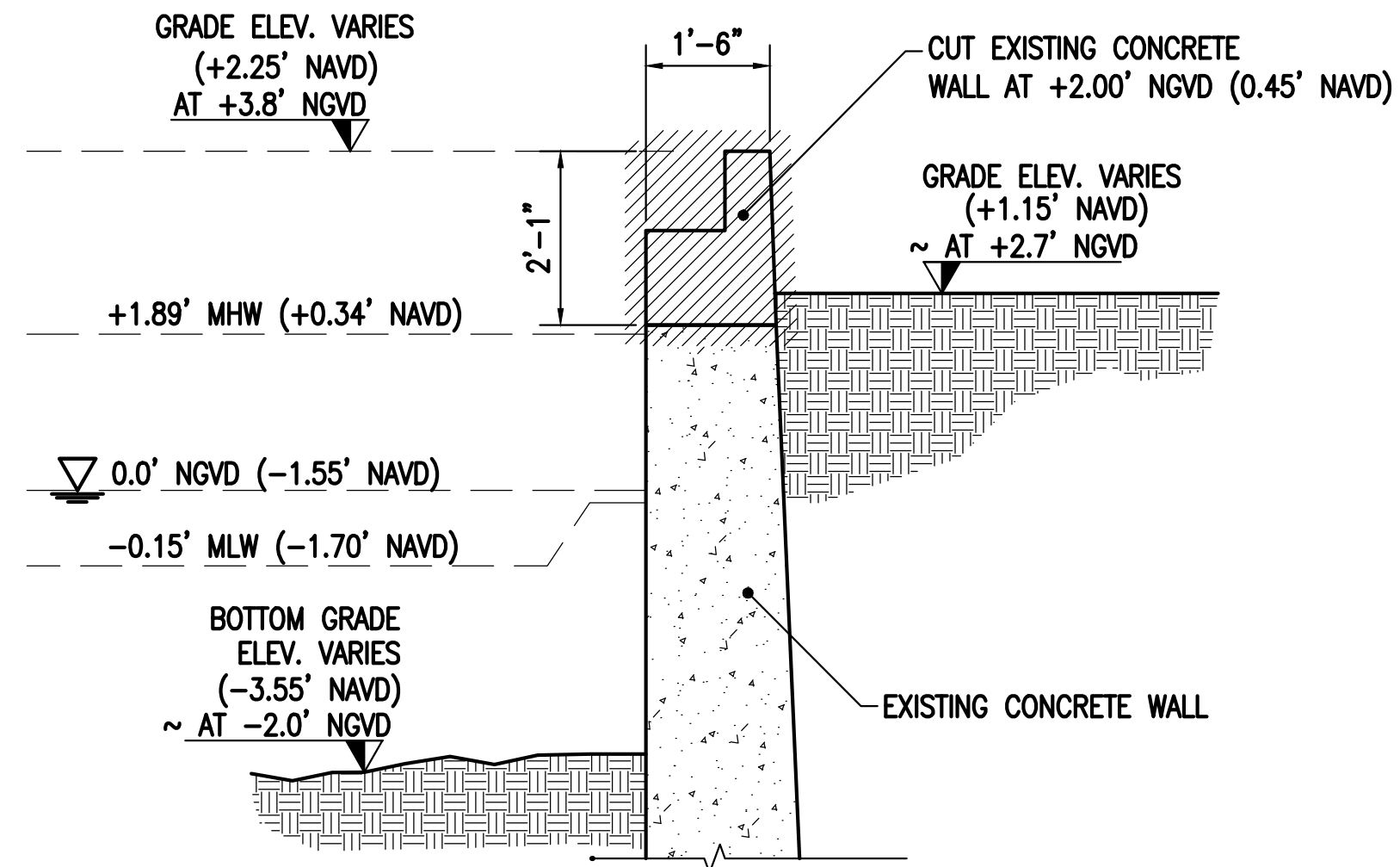
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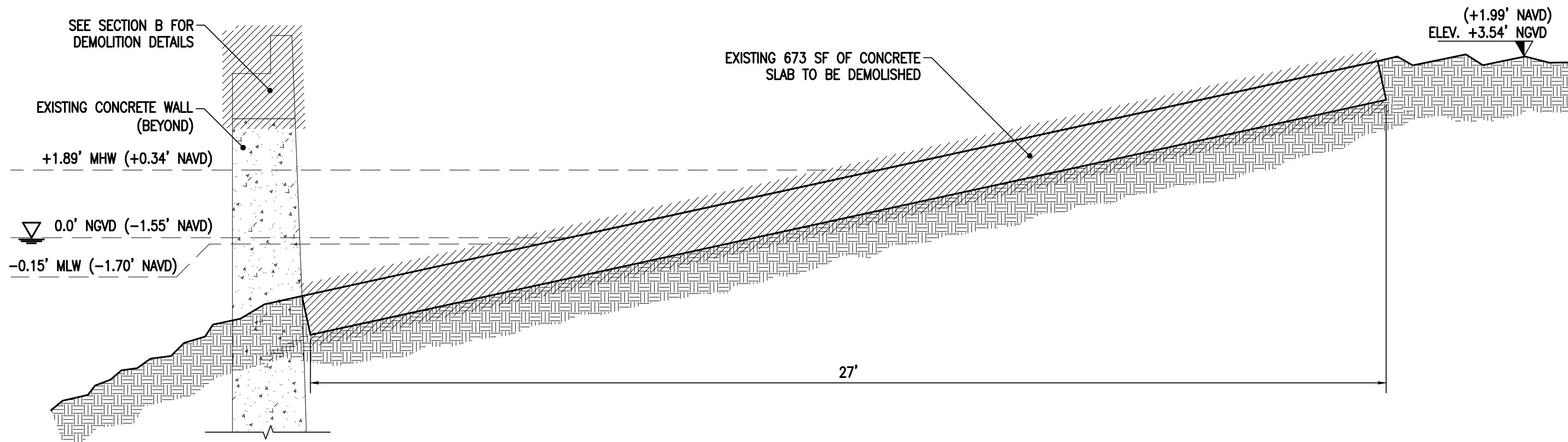
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SCALE: 1" = 2'

**A SECTION**  
1" = 2'



0 2' 4'  
SCALE: 1" = 2'

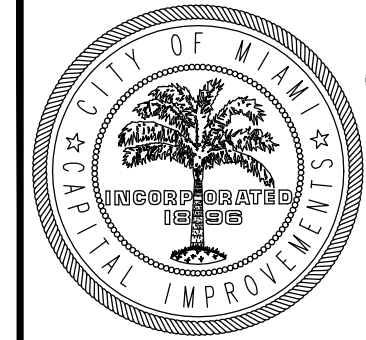
**B SECTION**  
1" = 2'



0 2' 4'  
SCALE: 1" = 2'

**C SECTION**  
1" = 2'

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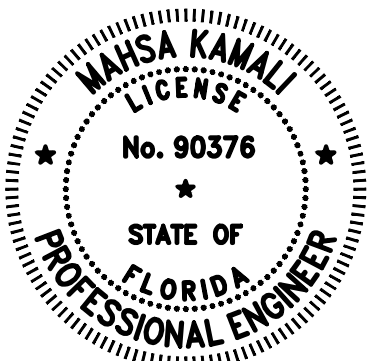


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**DEMOLITION SECTIONS**

CONSULTANT SPACE

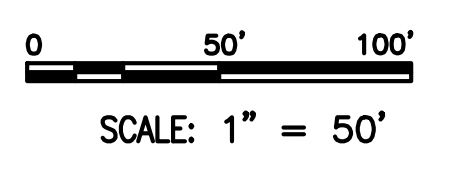
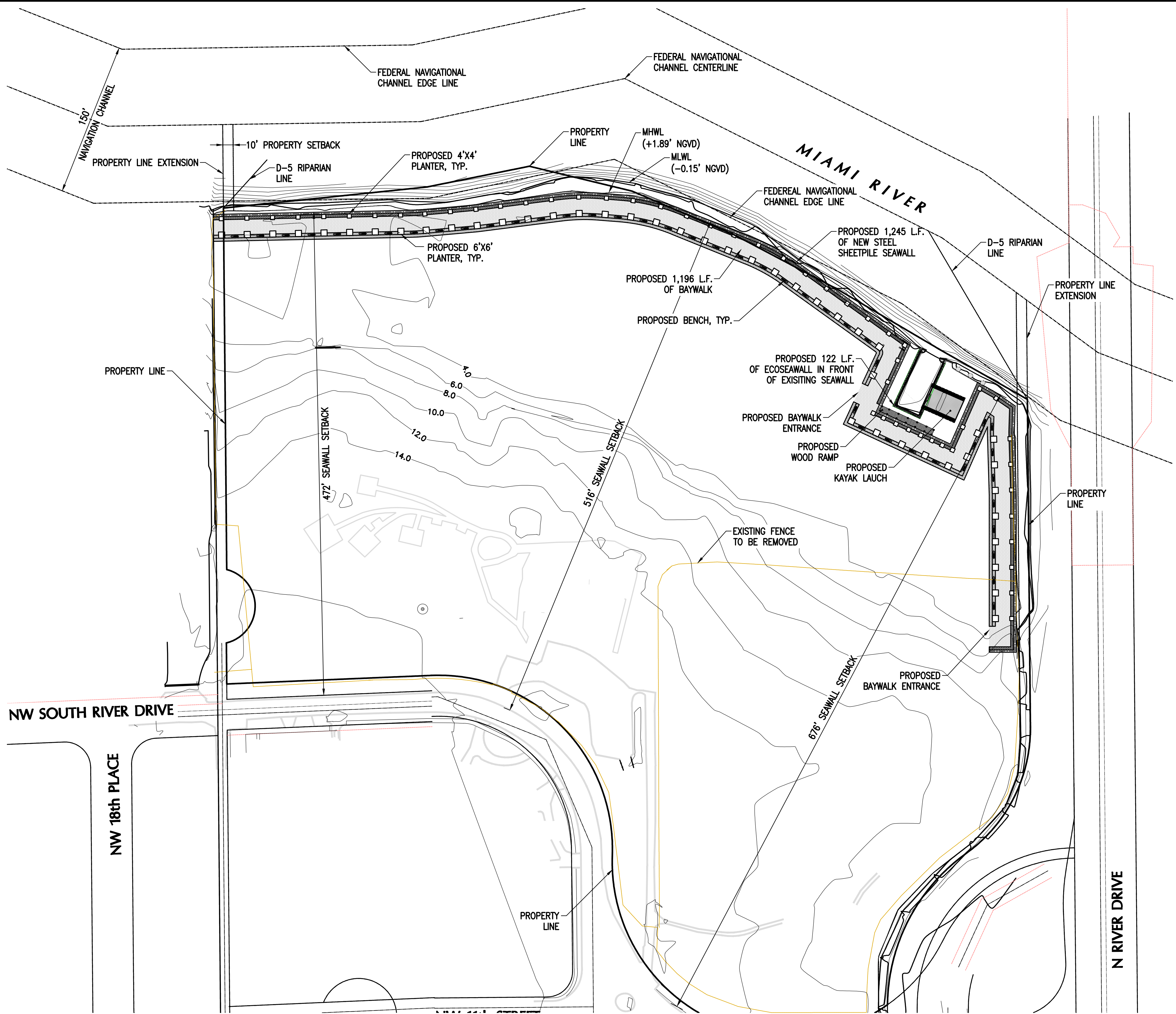


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**PROPOSED OVERALL SITE PLAN**  
SCALE: 1" = 50'

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**PROPOSED OVERALL SITE PLAN**

CONSULTANT SPACE

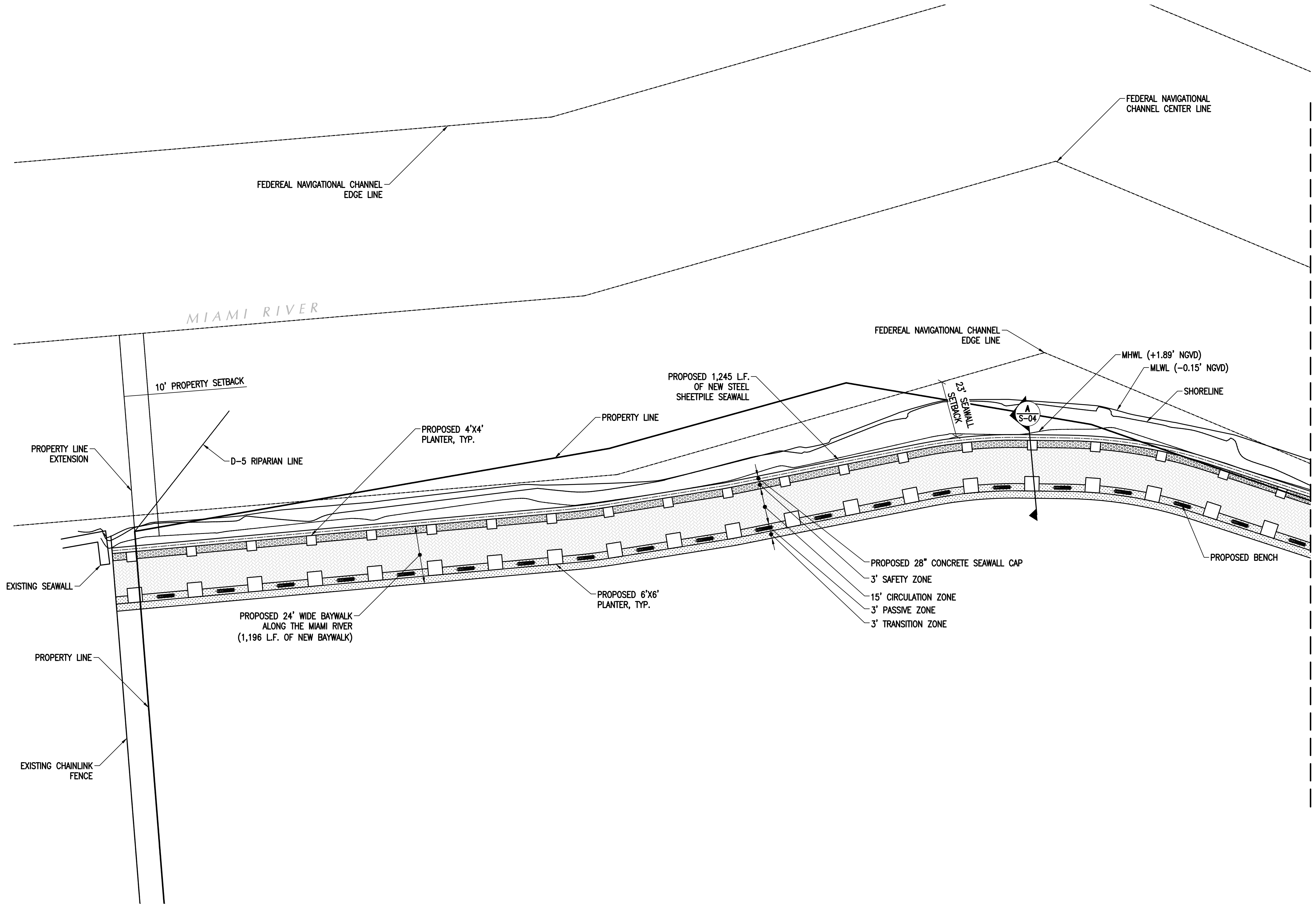



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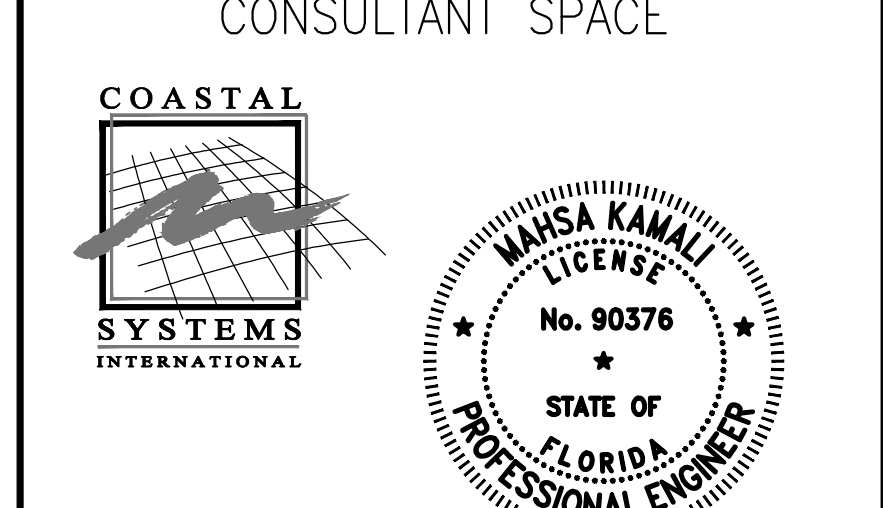


MATCHLINE - SEE S-03 FOR CONTINUATION



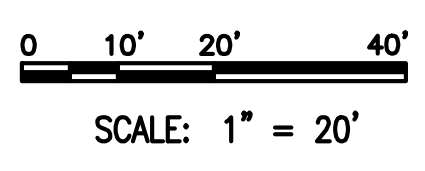
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PROPOSED SITE PLAN - 1



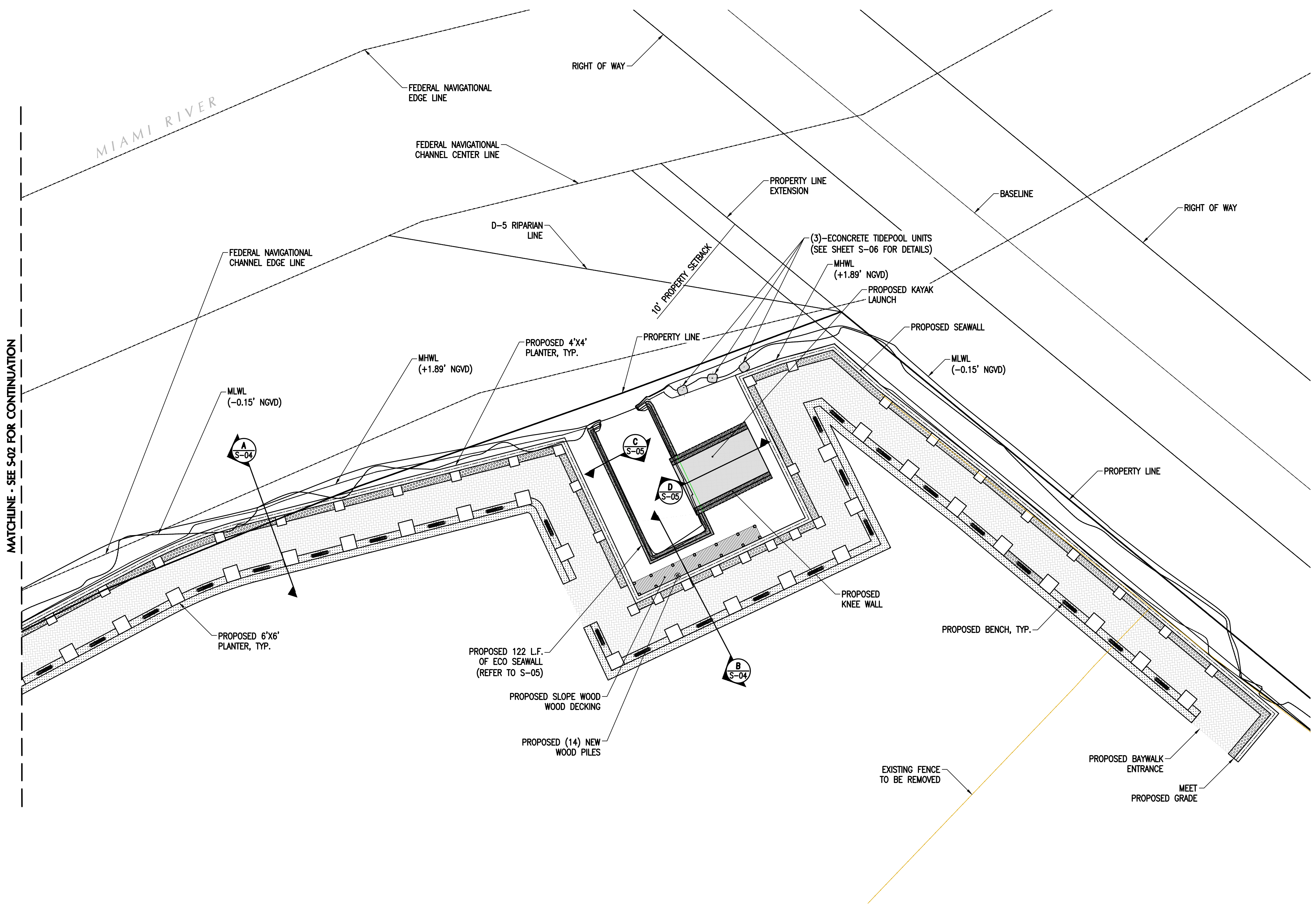
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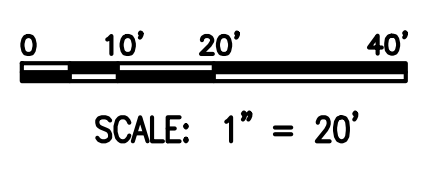


**PROPOSED SITE PLAN - 1**  
 SCALE: 1" = 20'  
 NORTH

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MATCHLINE - SEE S-02 FOR CONTINUATION



**PROPOSED SITE PLAN - 2**  
SCALE: 1" = 20'

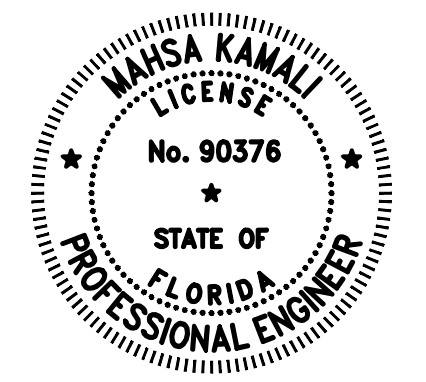
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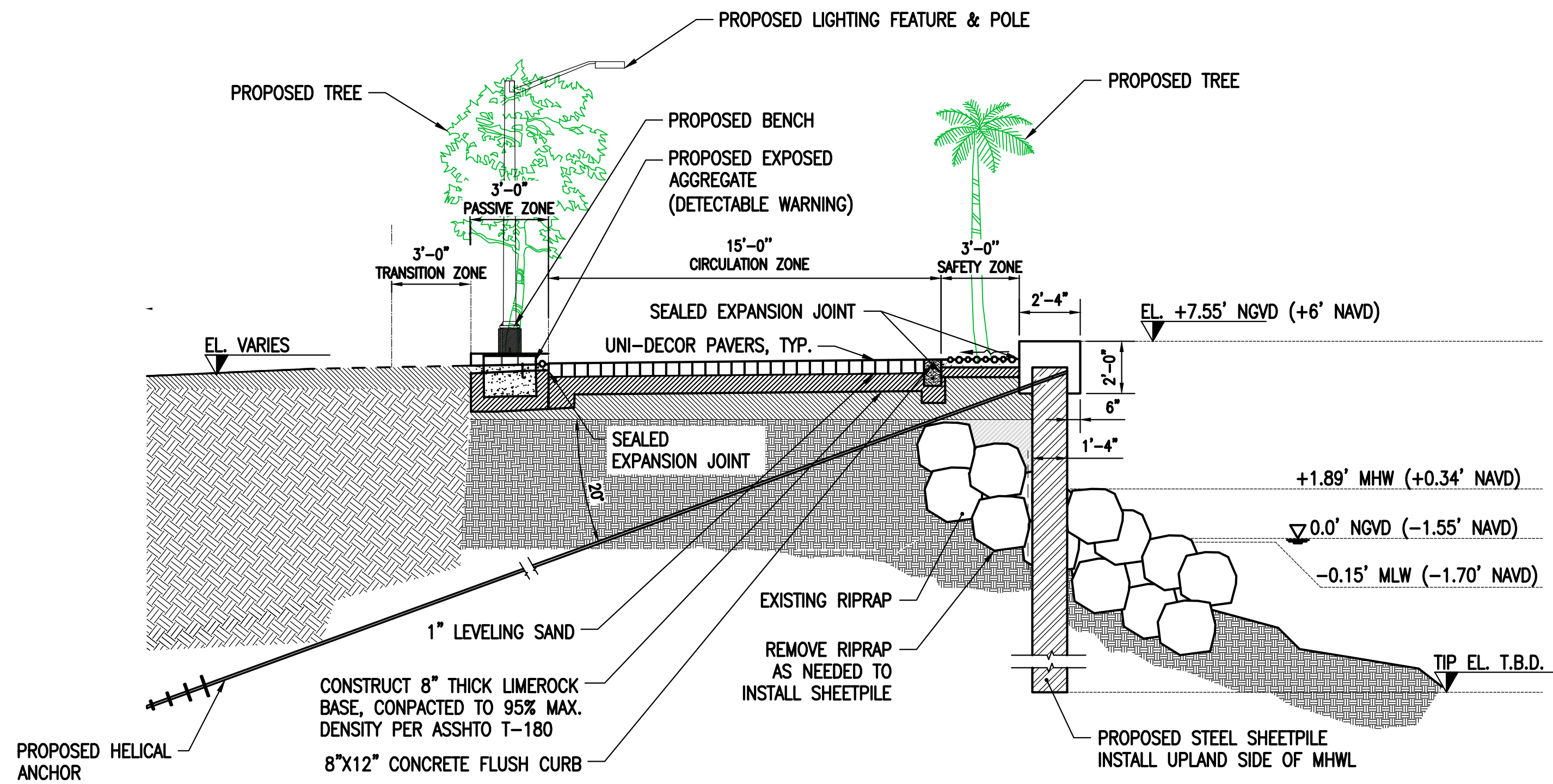
**PROPOSED SITE PLAN - 2**

CONSULTANT SPACE



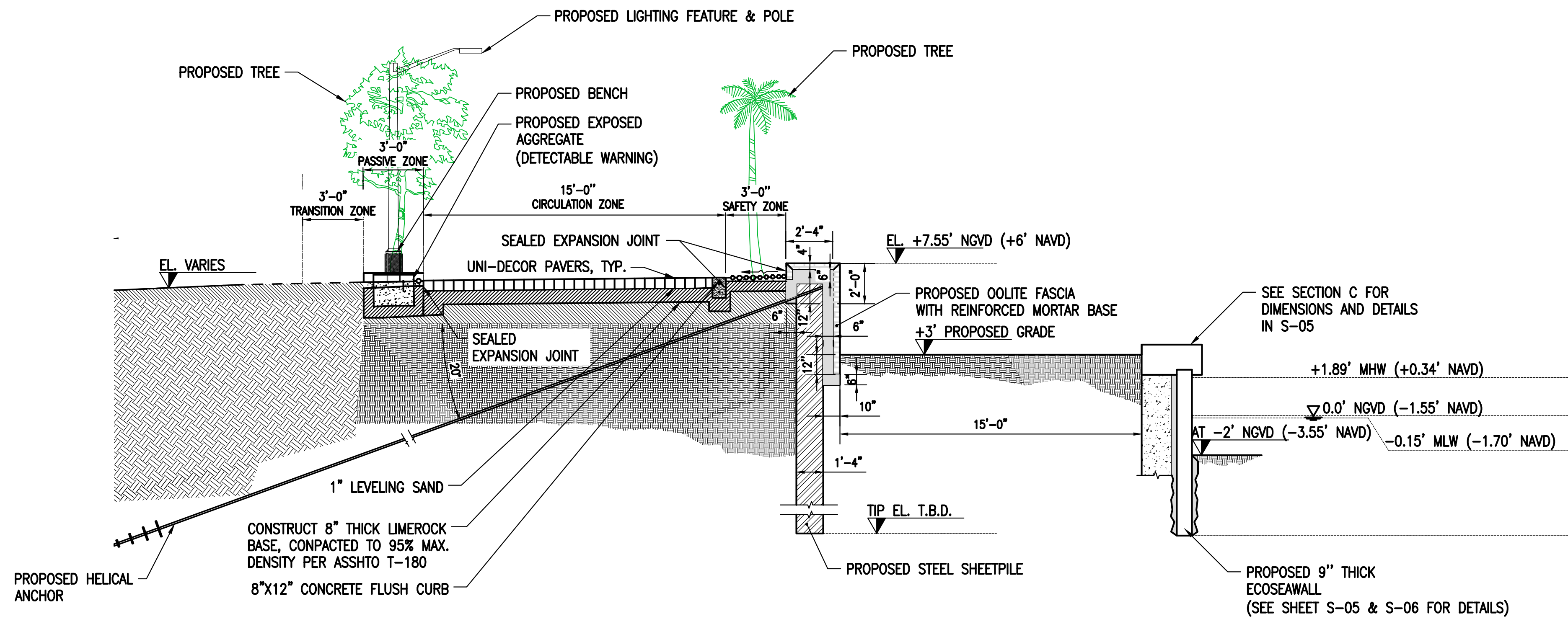
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SCALE: 1" = 4'

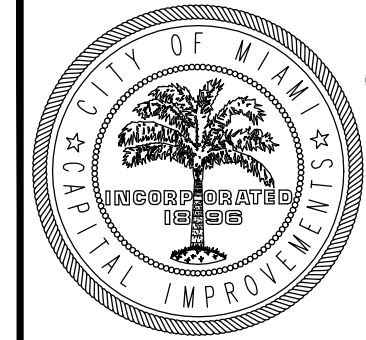
**A** SECTION  
1" = 4'



0 4' 8'  
SCALE: 1" = 4'

**B** SECTION  
1" = 4'

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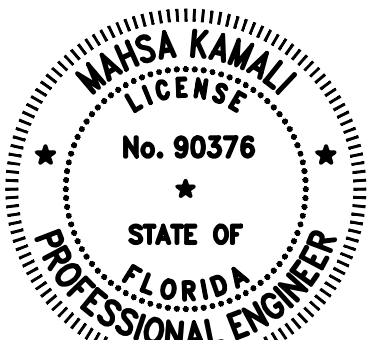


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**PROPOSED SECTIONS AND  
DETAILS - 1**

CONSULTANT SPACE

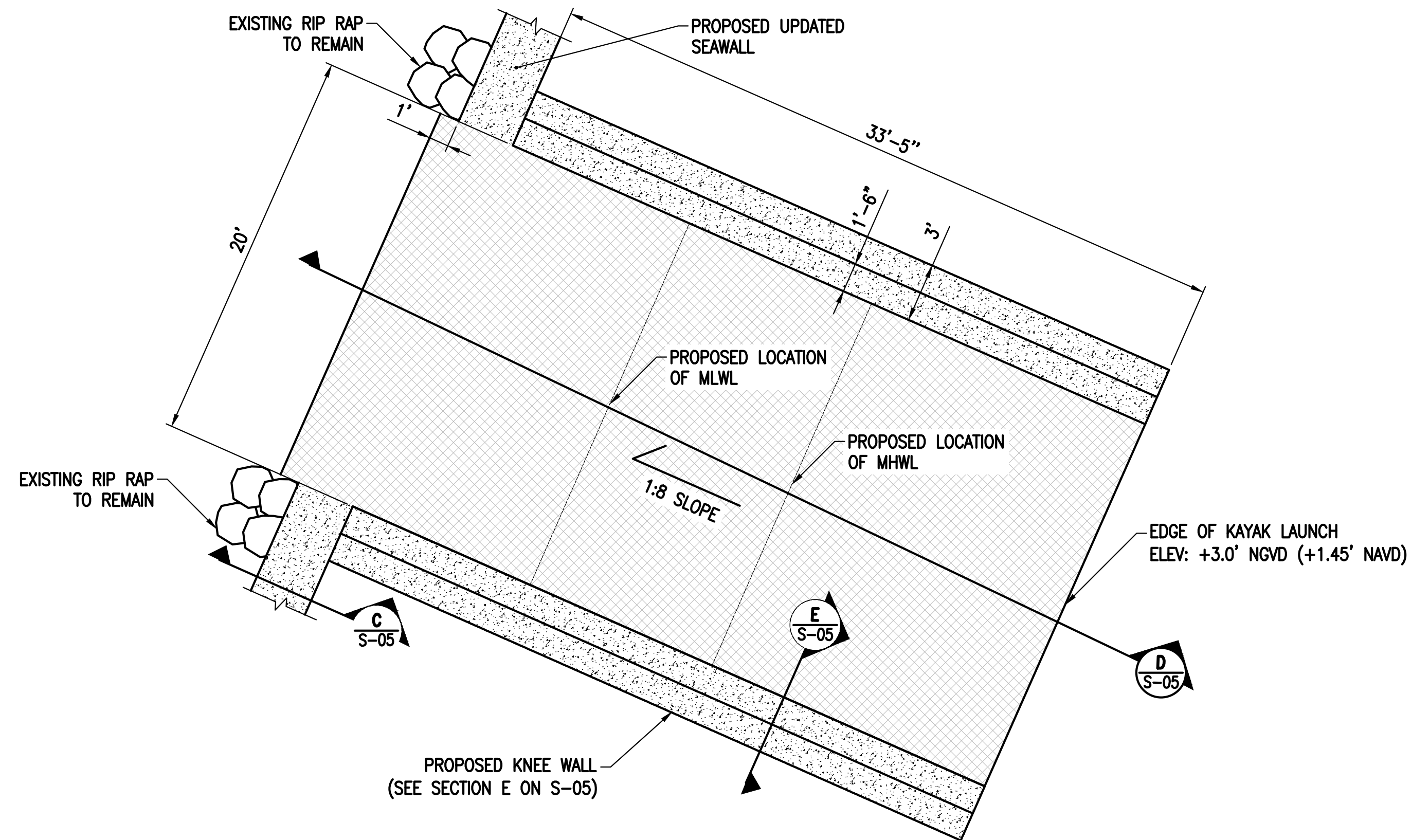


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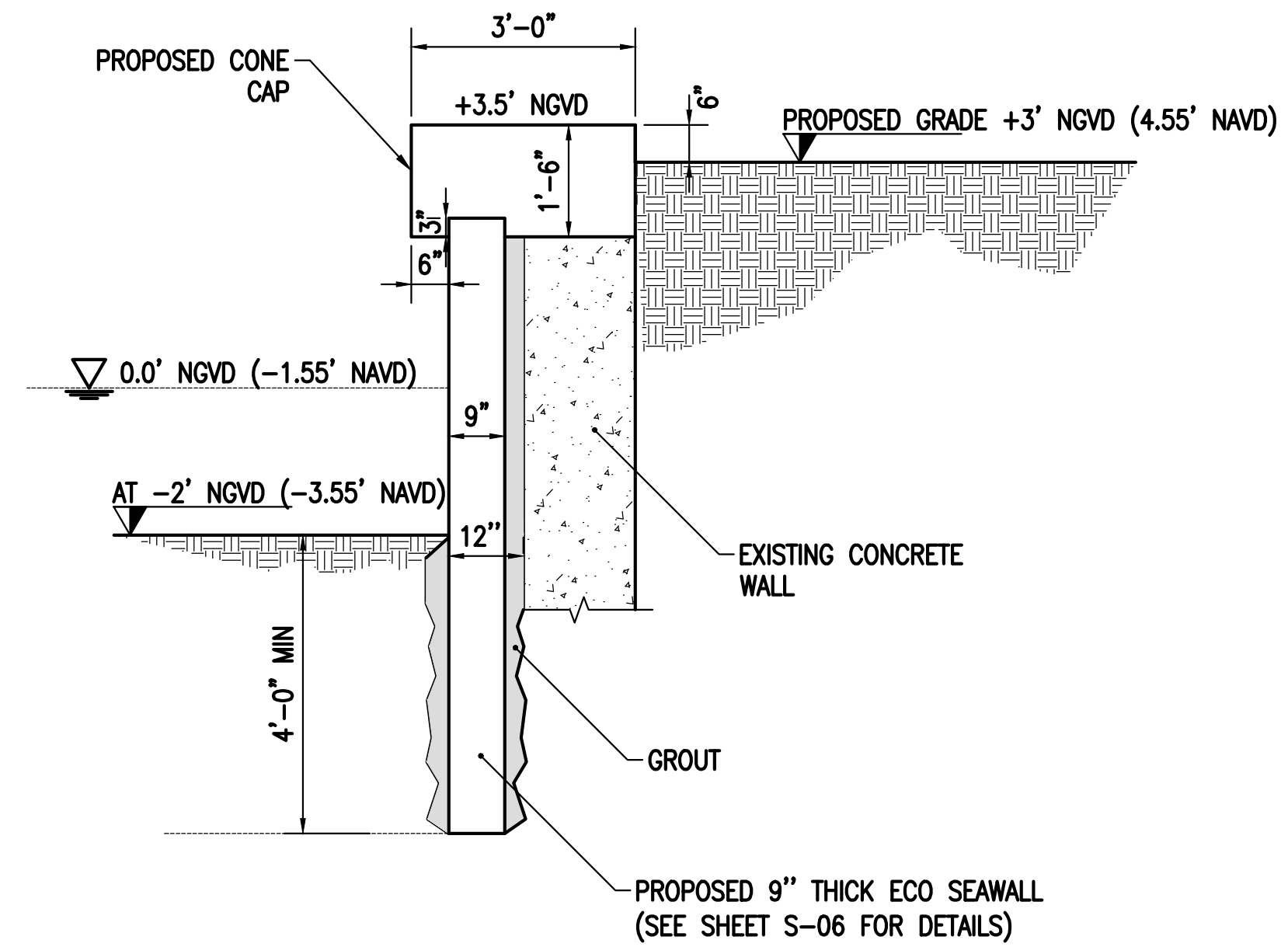
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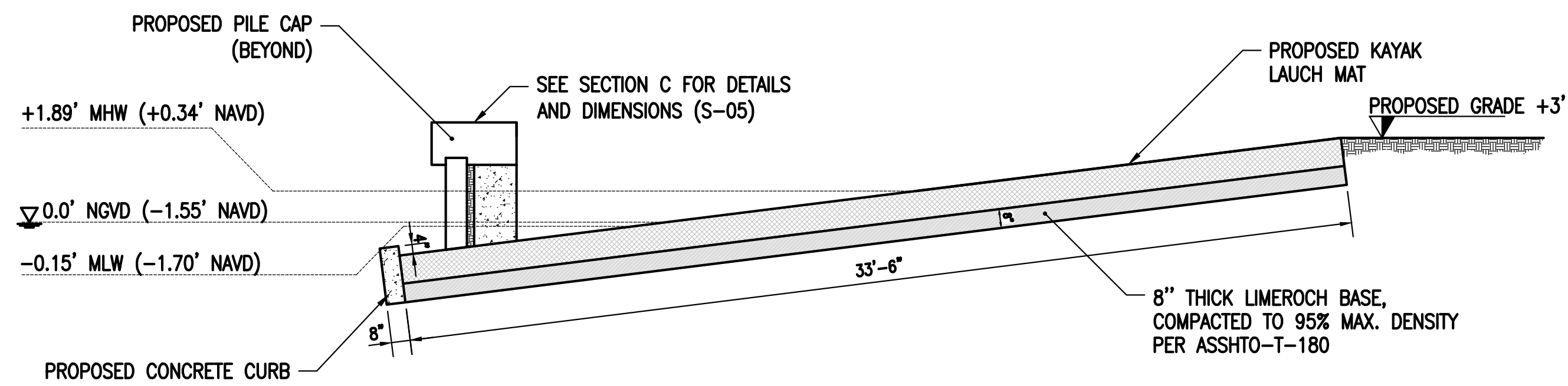
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**1** PROPOSED KAYAK LAUNCH RAMP PLAN  
1" = 5'



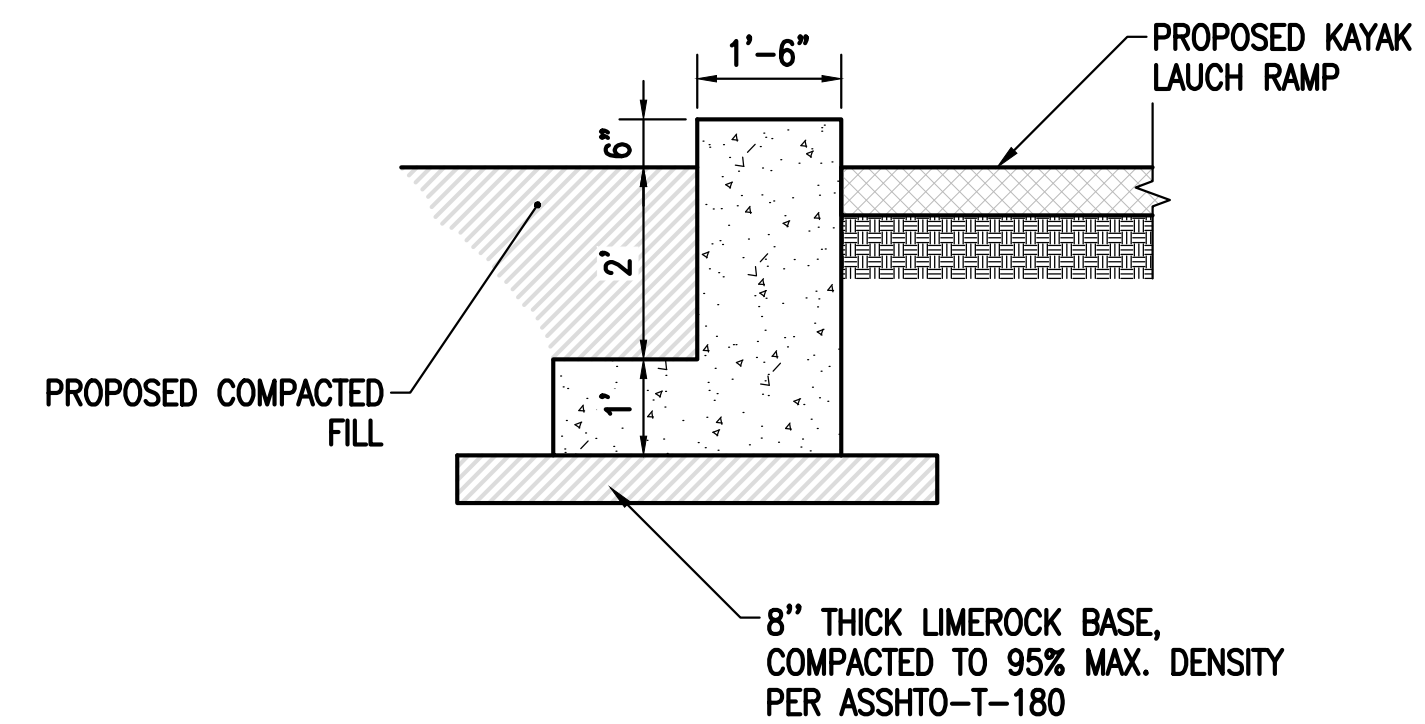
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SCALE: 1" = 2'

**C** SECTION  
1" = 2'



0 4' 8'  
SCALE: 1" = 4'

**D** SECTION  
1" = 4'



0 2' 4'  
SCALE: 1" = 2'

**E** SECTION  
1" = 2'

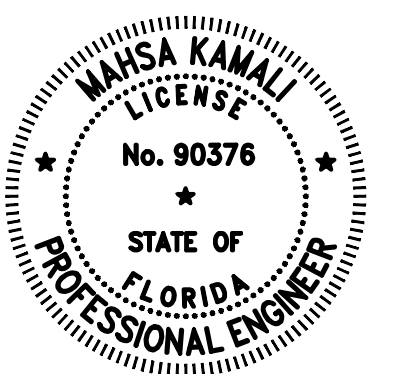
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**PROPOSED SECTIONS AND  
DETAILS - 2**

CONSULTANT SPACE



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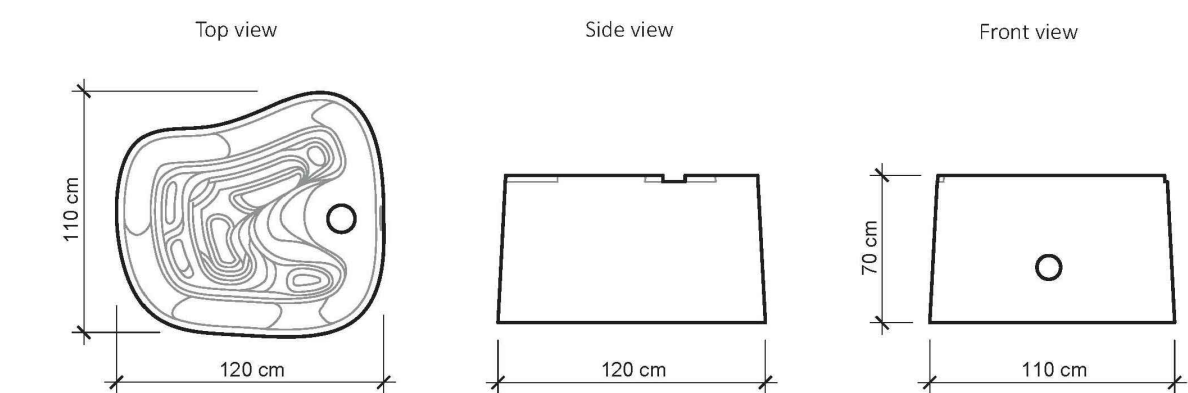
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Unit Length (cm)	Unit Width (cm)	Unit Height (cm)	Volume (Liters)	Weight (Kg)
120 (~4')	110 (~3.6')	70 (~2.3')	600 (~0.8 yd³)	1,400 (~3,100 lbs)



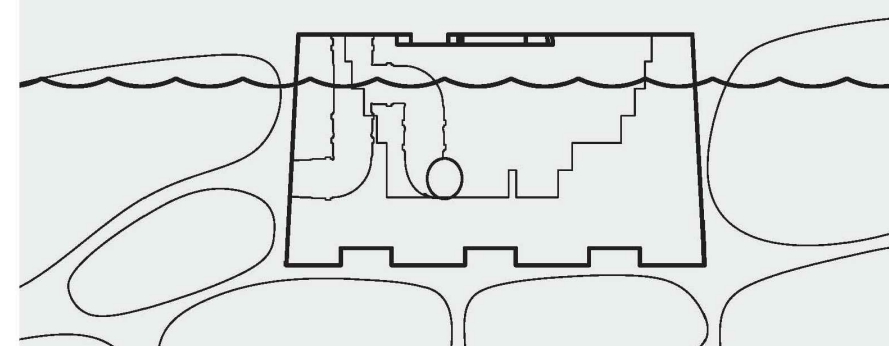
ECOcrete® Tide Pool's dimensions can be fitted to specific project requirements.

The specific concrete matrix used for the casting is defined according to the project's distinct constructive and biological requirements.

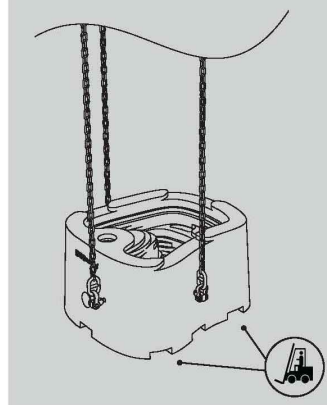


ECOcrete® Tide Pools are designed to mimic natural inter-tidal areas. With the Tide Pool's constructive abilities, it can be integrated within a breakwater system or biologically enhance a shoreline.

For optimal performance, the Tide Pool should be placed from the mean high water (MHW) to the mean low water (MLW). The outer taper of the unit allows for lockage between stones or armor units.



ECOcrete® Tide Pools can be transported by forklift and placed using lifting straps/pins.



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**1 PROPOSED ECONCRETE TIDE POOL UNITS**  
N. T. S.

**ECOcrete Seawall Panel**

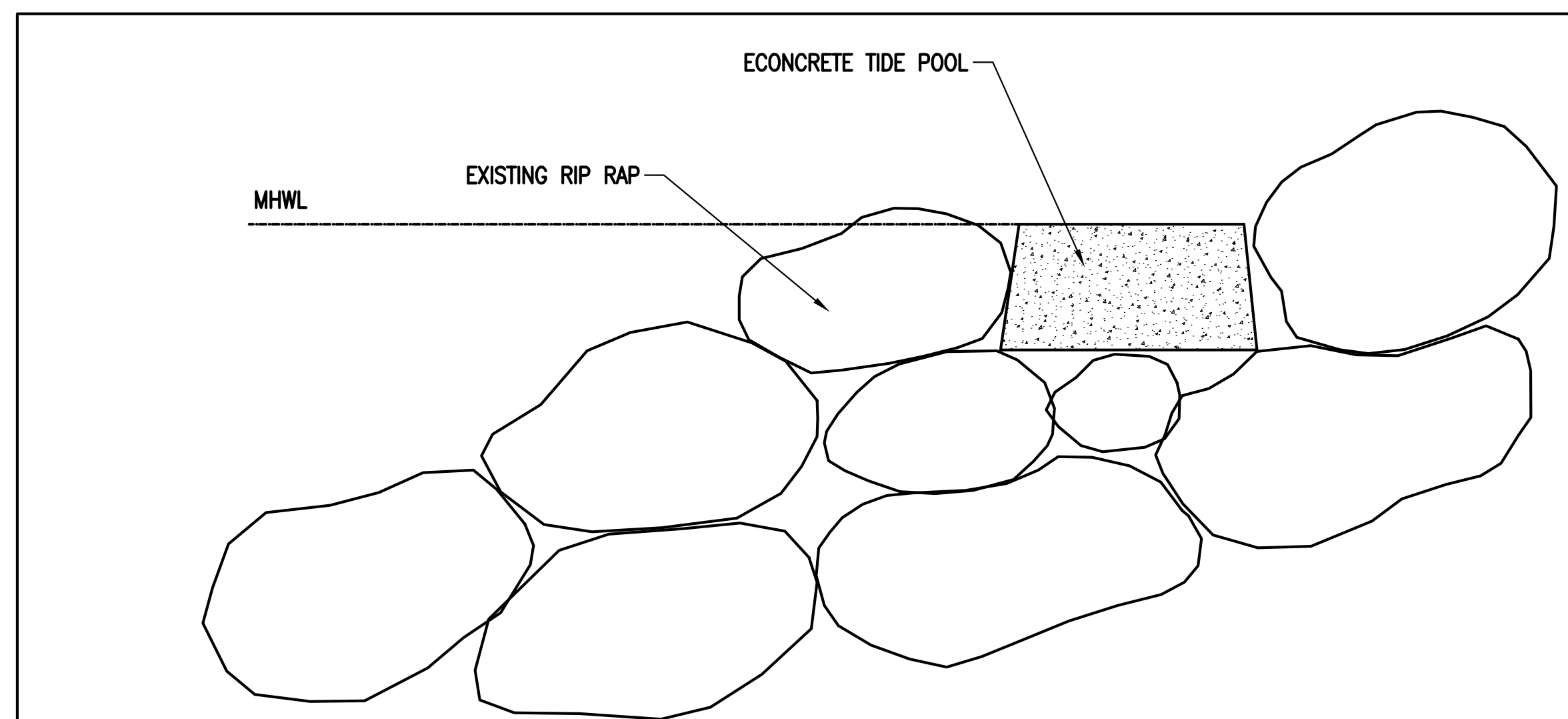
Project Name	Sheet Name	Scale	Page No.
ECOcrete Seawall	ECOcrete Seawall Panel	1:20	A3
Version	Revised	Drawn By	Checked By
1.2	17-02-2021	Nuara Tarigh	Ido Sella
File Name	For Review	For Approval	For Release
ECOcrete_Seawall_Panel_2021	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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The sketches on this page are general product plans not for manufacturing, engineering and detailed drawings as well as shop drawings of the products are the sole responsibility of the manufacturer under the supervision of ECOcrete. The final dimensions of the product will be determined in coordination with the manufacturer in the final planning stage. The manufacturer will provide construction and load calculations as well as detailed production drawings for ECOcrete's approval.

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**2 PROPOSED ECOSEAWALL**  
N. T. S.



**3 ECONCRETE TIDE POOL BLOCK LOCATION**  
N. T. S.

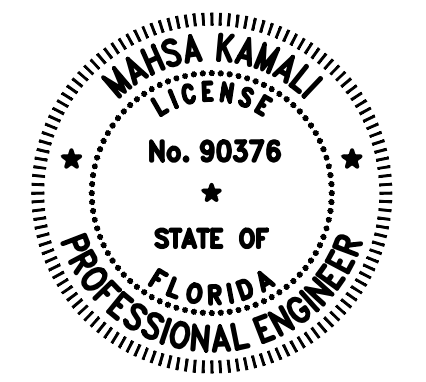
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**PROPOSED SECTIONS AND  
DETAILS - 3**

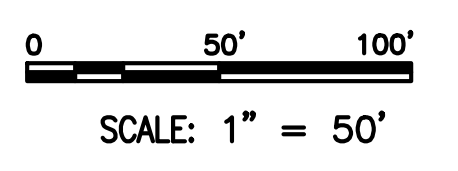
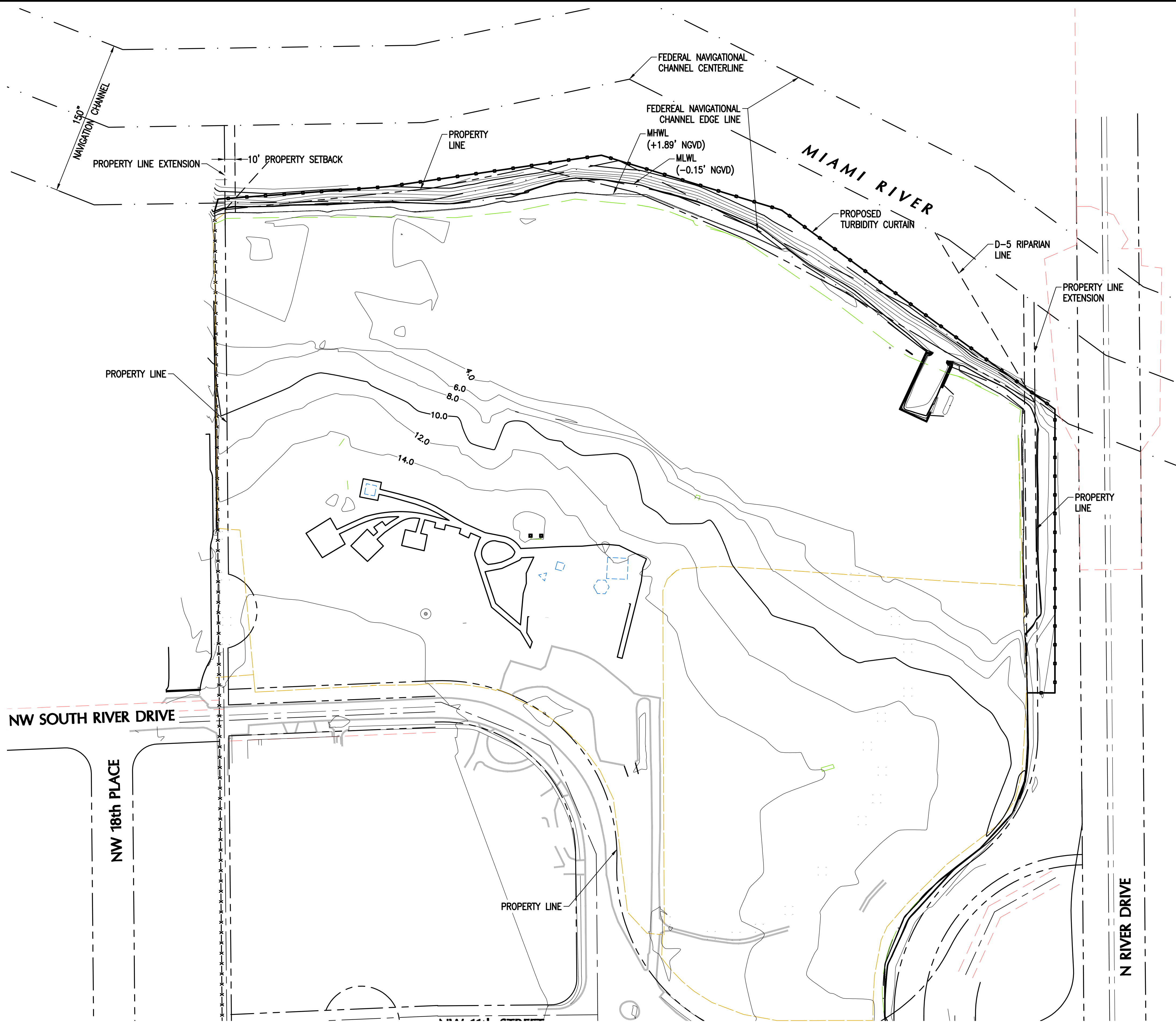
CONSULTANT SPACE



DATE: 7/21/2021  
NAME: .  
FL. REGISTRATION No. .

No.	REVISIONS - SUBMITTALS	DATE
1	30% DESIGN SET	06/14/21
2	PERMIT SET	06/29/21
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**STORM WATER POLLUTION PREVENTION PLAN - 1**  
SCALE: 1" = 50'

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP

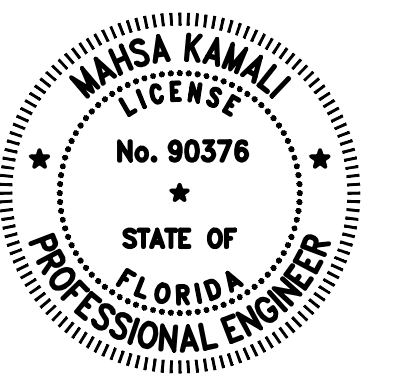


**CITY OF MIAMI**  
OFFICE OF CAPITAL IMPROVEMENTS  
444 S.W. 2nd Avenue, 8th Floor  
Miami, FL 33130

**SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125**

**STORM WATER POLLUTION  
PREVENTION PLAN - 1**

CONSULTANT SPACE



DATE: 7/21/2021  
NAME: .  
FL. REGISTRATION No. .

No.	REVISIONS - SUBMITTALS	DATE
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**COUNTY REQUIREMENTS**

**SITE DESCRIPTION:**

PROJECT NAME AND LOCATION:  
SEWELL PARK SHORELINE IMPROVEMENTS  
801 NW S RIVER DR.  
MIAMI, FLORIDA 33125

**OWNER:**

CITY OF MIAMI  
DEPARTMENT OF ASSET MANAGEMENT DIVISION  
444 SW 2nd AVE. #325  
MIAMI, FL 33130

**DESCRIPTION:**

THE PROJECT IS LOCATED 801 NW S RIVER DR. MIAMI, MIAMI-DADE COUNTY, FLORIDA 33125. THE PROJECT SITE WILL OCCUR WITHIN THE PROPERTY SITE AND THE MIAMI RIVER SHORELINE. THE PROPOSED CONSTRUCTION ACTIVITY CONSISTS OF REDESIGNING IT WITH A BAYWALK, KAYAK LAUNCH, LIVING SHORELINE, AND SHORELINE STABILIZATION TO INCLUDE RESTORATION OF THE UPLAND AND THE EXISTING CONCRETE SEAWALL. TOTAL PROJECT AREA IS 0.8 ACRES, NPDES PERMIT (0.5 ACRE OR MORE).

**PUBLIC:**

ON A 8.60 +/- ACRE SITE

**SOIL DISTURBING ACTIVITIES WILL INCLUDE:**

REGRADE THE PARK, REMOVAL AND RECONSTRUCTION OF PARK WALKWAY, CONSTRUCTION OF NEW PLAYGROUND WITH NEW RUBBERIZED SURFACE FOR PLAY AREA, SHORELINE RESTORATION, NEW SEAWALL INCREASED TO 5.7' NAVD.

REFER TO SHEET SWPPP-2 FOR LOCATION OF TEMPORARY STABILIZATION PRACTICES AND TURBIDITY BARRIERS. SEE GENERAL NOTES FOR REQUIREMENTS FOR TEMPORARY AND PERMANENT STABILIZATION.

**SITE AREA:**

- 1. TOTAL AREA OF SITE= 8.60 +/- ACRES
- 2. TOTAL AREA TO BE DISTURBED = 2.15 ACRES (APPROX.)

NAME OF RECEIVING WATERS: MIAMI RIVER

**CONTROLS**

THIS PLAN UTILIZES BEST MANAGEMENT PRACTICES TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN OFF. AN EROSION AND TURBIDITY PLAN HAS BEEN PREPARED TO INSTRUCT THE CONTRACTOR ON PLACEMENT OF THESE CONTROLS. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL AND MAINTAIN THE CONTROLS PER PLAN AS WELL AS ENSURING THE PLAN IS PROVIDING THE PROPER PROTECTION AS REQUIRED BY FEDERAL, STATE AND LOCAL LAWS. REFER TO CONTRACTOR'S RESPONSIBILITY FOR A VERBAL DESCRIPTION OF CONTROLS THAT MAY BE IMPLEMENTED.

**TIMING OF CONTROLS / MEASURES**

REFER TO "CONTRACTOR'S RESPONSIBILITY" FOR THE TIMING OF CONTROL/MEASURES.

**POLLUTION PREVENTION PLAN CERTIFICATION**

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED:  
CONTRACTOR

DATED:

**GENERAL**

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS. DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULENTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

**SEQUENCE OF MAJOR ACTIVITIES:**

- 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SILT FENCE
- 2. INSTALL SILT AND SYNTHETIC BALES AS REQUIRED
- 3. CLEAR AND GRUB FOR DIVERSION SWALE/DIKES AND SEDIMENT BASIN
- 4. CONSTRUCT SEDIMENTATION BASIN
- 5. STOCK PILE TOP SOIL IF REQUIRED
- 6. STABILIZE DENUDED AREAS AND STOCKPILES AS SOON AS PRACTICABLE
- 7. SHORELINE STABILIZATION
- 8. REMOVAL OF EXISTING LANDSCAPING (AS SPECIFIED ON THE LANDSCAPING PLANS)
- 9. DEMOLITION OF ALL CONCRETE SLABS (INCLUDING EXISTING KAYAK LAUNCH RAMP AND CONCRETE CAP)
- 10. CONSTRUCTION OF NEW PARK SEAWALL INCLUDING REARRANGEMENT OF RIP RAP
- 11. RE-GRADING THE PARK TO MEET PROPOSED DESIGN

- 12. CONSTRUCTION OF KNEE WALL
- 13. CONSTRUCTION OF NEW STORMWATER OUTFALL WITH CONTROL BOX
- 14. CONSTRUCTION OF NEW BAYWALK PER MIAMI-21 DESIGN CODE
- 15. INSTALL PARK ELECTRICAL COMPONENTS
- 16. INSTALL PARK FURNITURE
- 25. INSTALL ALL LANDSCAPING ITEMS (INCLUDING TREES AND PALMS)
- 26. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETED AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALE/DIKES AND RESEED/SOD AS REQUIRED

**TIMING OF CONTROLS/ MEASURES**

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND SYNTHETIC BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH DIKE/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN.

**CONTROLS**

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS AS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION AND TURBIDITY CONTROLS SHOWN ON THE EROSION AND TURBIDITY CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS. THE FOLLOWING BEST MANAGEMENT PRACTICES WILL BE IMPLEMENTED BY THE CONTRACTOR AS REQUIRED THE EROSION AND TURBIDITY REQUIREMENTS IMPOSED ON THE PROJECT SITE BY THE REGULATORY AGENCIES.

**EROSION AND SEDIMENT CONTROLS STABILIZATION PRACTICES:**

- 1. SYNTHETIC BALE BARRIER: HALE BALE BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
  - A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
  - B. IN MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
  - C. WHERE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS.
  - D. EVERY EFFORT SHOULD BE MADE TO LIMIT THE USE OF STRAW BALE BARRIERS CONSTRUCTED IN LIVE STREAMS OR IN SWALES WHERE THERE IS THE POSSIBILITY OF A WASHOUT. IF NECESSARY, MEASURE SHALL BE TAKEN TO PROPERLY ANCHOR BALES TO INSURE AGAINST WASHOUT.
- 2. FILTER FABRIC BARRIER: FILTER FABRIC BARRIERS CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION WITH THE FOLLOWING LIMITATIONS:
  - A. WHERE THE MAXIMUM SLOPE BEHIND THE BARRIER IS 33 PERCENT.
  - B. MINOR SWALES OR DITCH LINES WHERE THE MAXIMUM CONTRIBUTING DRAINAGE AREA IS NO GREATER THAN 2 ACRES.
- 3. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY.
- 4. EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 10 ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH AN EROSION CONTROL PLAN WHICH DEMONSTRATES THAT OPENING OF ADDITIONAL AREA WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
- 5. INLET PROTECTION: INLETS AND CATCH BASINS SHALL NOT DISCHARGE DIRECTLY OFF-SITE. INLETS SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
- 6. TEMPORARY SEEDING: AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE RE-EXCAVATED OR DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN 30 DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING.
- 7. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT OF GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER
- 8. MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.
- 9. PERMANENT EROSION CONTROL: THE CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

**EROSION CONTROL DEVICES:**

- 1. LOCATIONS AND TYPES OF ALL EROSION CONTROL DEVICES SHALL BE INSTALLED AS DIRECTED BY PLAN AND/OR BY THE CITY OF MIAMI BEACH. CONTRACTOR SHALL IMPLEMENT THE SWPPP AS PER CONTRACT PLANS. HOWEVER, IT MAY BE REVISED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME WORK IS BEING PERFORMED. FIELD MODIFICATIONS WILL BE APPROVED BY THE CITY OF MIAMI BEACH. MONITORING SHALL BE PERFORMED ON A WEEKLY BASIS AND AFTER A 1/2" STORM EVENT WITH ROUTINE MAINTENANCE AND REPLACEMENT OF ANY DEVICES AS REQUIRED. CONTAINMENT OR REMOVAL OF POLLUTANTS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND CITY OF MIAMI REGULATIONS AND/OR FDOT STANDARD SPECIFICATIONS.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP

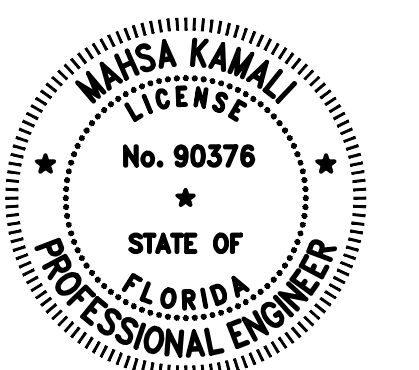


SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125

STORM WATER POLLUTION  
PREVENTION PLAN - 2

SHEET TITLE:

CONSULTANT SPACE



DATE: 7/21/2021

NAME: .

FL. REGISTRATION No. .

No.	REVISIONS - SUBMITTALS	DATE
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**DESCRIPTION OF STORMWATER MANAGEMENT:**

1. CONTRACTOR SHALL INSTALL AND MAINTAIN THE EROSION AND SEDIMENT CONTROL, DESCRIBED HEREIN, AFTER ANY RAIN EVENT, THE CONTRACTOR WILL REPAIR OR REPLACE ANY AFFECTED CONTROLS (SILT FENCE, FILTER FABRIC, AND SYNTHETIC BALES).
2. DRAINAGE BASIN SHALL BE CLEANED PRIOR TO THE START OF CONSTRUCTION AND INSPECTED/CLEANED POST CONSTRUCTION.

**STRUCTURAL PRACTICES:**

1. TEMPORARY DIVERSION DIKE: TEMPORARY DIVERSION DIKES MAY BE USED TO DIVERT RUNOFF THROUGH A SEDIMENT-TRAPPING FACILITY.
2. TEMPORARY SEDIMENT TRAP: A SEDIMENT TRAP SHALL BE INSTALLED IN A DRAINAGE WAY AT A STORM DRAIN INLET OR AT OTHER POINTS OF DISCHARGE FROM A DISTURBED AREA. THE FOLLOWING SEDIMENT TRAPS MAY BE CONSTRUCTED EITHER INDEPENDENTLY OR IN CONJUNCTION WITH A TEMPORARY DIVERSION DIKE:
  - A. BLOCK & GRAVEL SEDIMENT FILTER- THIS PROTECTION IS APPLICABLE WHERE HEAVY FLOWS AND/OR WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND STRUCTURE.
  - B. GRAVEL SEDIMENT TRAP- THIS PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.
  - C. DROP INLET SEDIMENT TRAP- THIS PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (Q  $\leq$  5%) AND WHERE SHEET OR OVERLAND FLOW (Q  $\leq$  0.5 CFS) ARE TYPICAL. THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREET OR HIGHWAY MEDIANS.
3. OUTLET PROTECTION: APPLICABLE TO THE OUTLETS OF ALL PIPES AND PAVED CHANNEL SECTIONS WHERE THE FLOW COULD CAUSE EROSION AND SEDIMENT PROBLEM TO THE RECEIVING WATER BODY. SILT FENCES AND HAY BALES ARE TO BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE DISCHARGING STRUCTURE AS SHOWN ON THE OUTLET PROTECTION DETAIL.

**OTHER CONTROLS**

**WASTE DISPOSAL:**

**WASTE MATERIALS:**

ALL WASTE MATERIALS EXCEPT LAND CLEARING DEBRIS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. THE DUMPSTER WILL BE EMPTIED AS NEEDED AND THE TRASH WILL BE HAULED TO A STATE APPROVED LANDFILL. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE CONSTRUCTION SITE THE CONSTRUCTION SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

**HAZARDOUS WASTE:**

ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.

**SANITARY WASTE:**

ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS AS NEEDED TO PREVENT POSSIBLE SPILLAGE. THE WASTE WILL BE COLLECTED AND DEPOSED OF IN ACCORDANCE WITH STATE AND LOCAL WASTE DISPOSAL REGULATIONS FOR SANITARY SEWER SYSTEMS.

**OFFSITE VEHICLE TRACKING:**

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPULIN.

**INVENT. FOR POLLUTION PREVENTION PLAN**

THE MATERIALS OR SUBSTANCES LISTED BELOW ARE EXPECTED TO BE PRESENT ON SITE DURING CONSTRUCTION:

- CONCRETE
- ASPHALT
- TAR
- \_\_\_\_\_
- PAINTS
- PETROLEUM BASED PRODUCTS
- CLEANING SOLVENTS
- \_\_\_\_\_
- WOOD
- \_\_\_\_\_

	BUSINESS NAME AND ADDRESS OF CONTRACTOR & ALL SUBS	RESPONSIBLE FOR/DUTIES
SIGNATURE		GENERAL CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR
		SUB-CONTRACTOR

**SPILL PREVENTION**

**MATERIAL MANAGEMENT PRACTICES:**

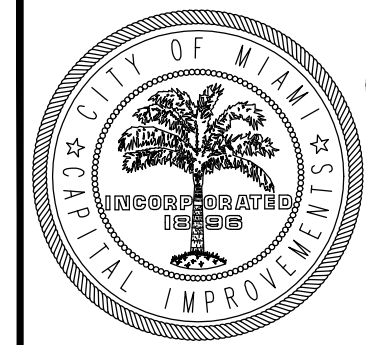
THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORMWATER RUNOFF.

**PLANT BED PREPARATION NOTES**

**PROTECTION OF PLANTS:**

THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT EXISTING TREES AND SHRUBS IN AND ADJACENT TO THE AREA OF WORK. ERECT BARRIERS AS NECESSARY TO KEEP EQUIPMENT AND MATERIALS, ANY TOXIC MATERIAL, AWAY FROM THE CANOPY DRIP LINE OF TREES AND SHRUBS. DO NOT PILE SOIL OR DEBRIS AGAINST TREE TRUNKS OR DEPOSIT NOXIOUS BUILDING SUPPLIES OR CHEMICALS WITHIN THE DRIP LINE. TREE PROTECTION SHOULD ADHERE TO THE CITY OF MIAMI BEACH TREE PROTECTION PLAN.

SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP



**CITY OF MIAMI**

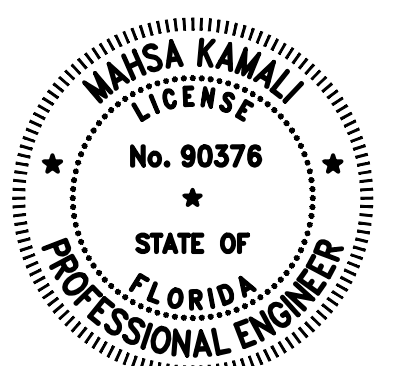
OFFICE OF CAPITAL IMPROVEMENTS  
444 S.W. 2nd Avenue, 8th Floor  
Miami, FL 33130

SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125

STORM WATER POLLUTION  
PREVENTION CONTROL PLAN - 3

SHEET TITLE:

CONSULTANT SPACE

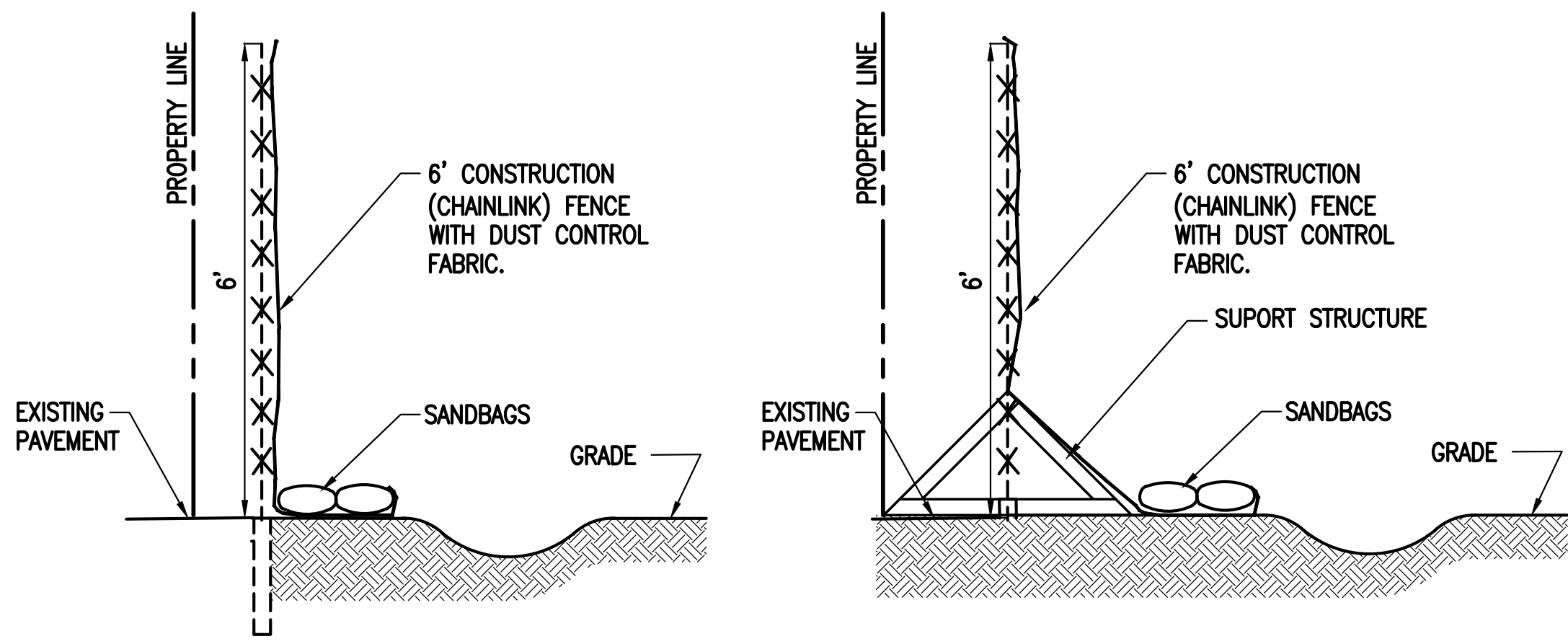


DATE: 7/21/2021

NAME: .

FL. REGISTRATION No. .

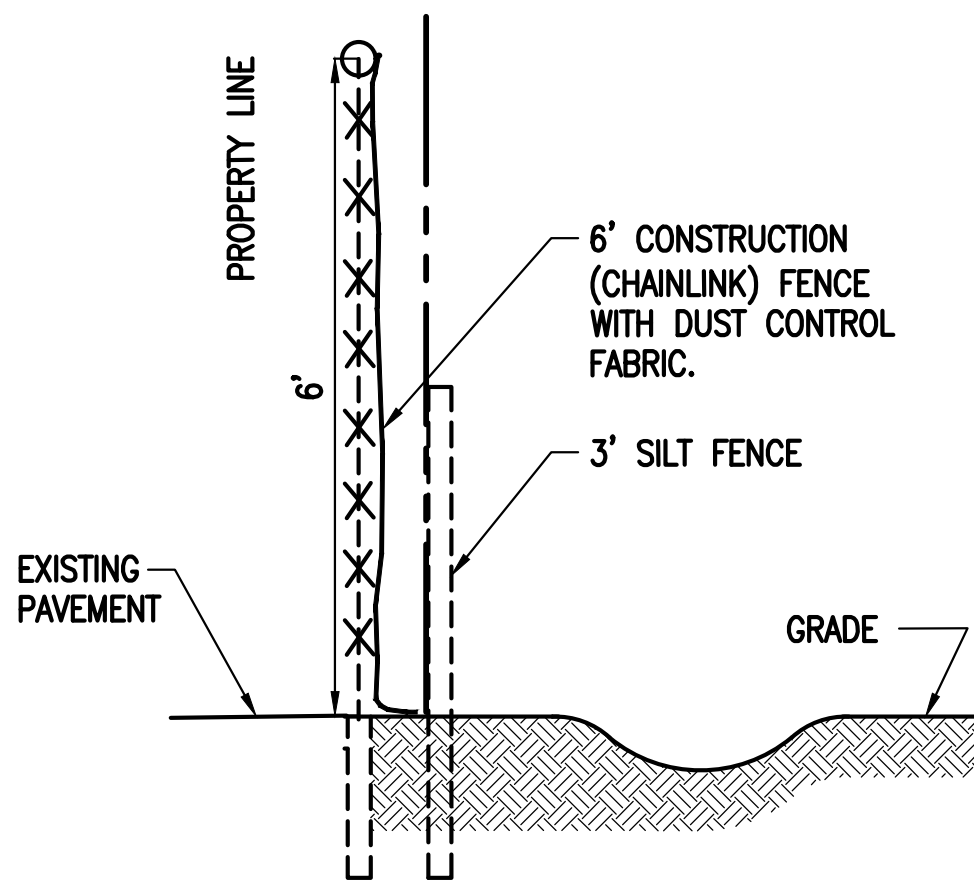
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ALTERNATIVE 1

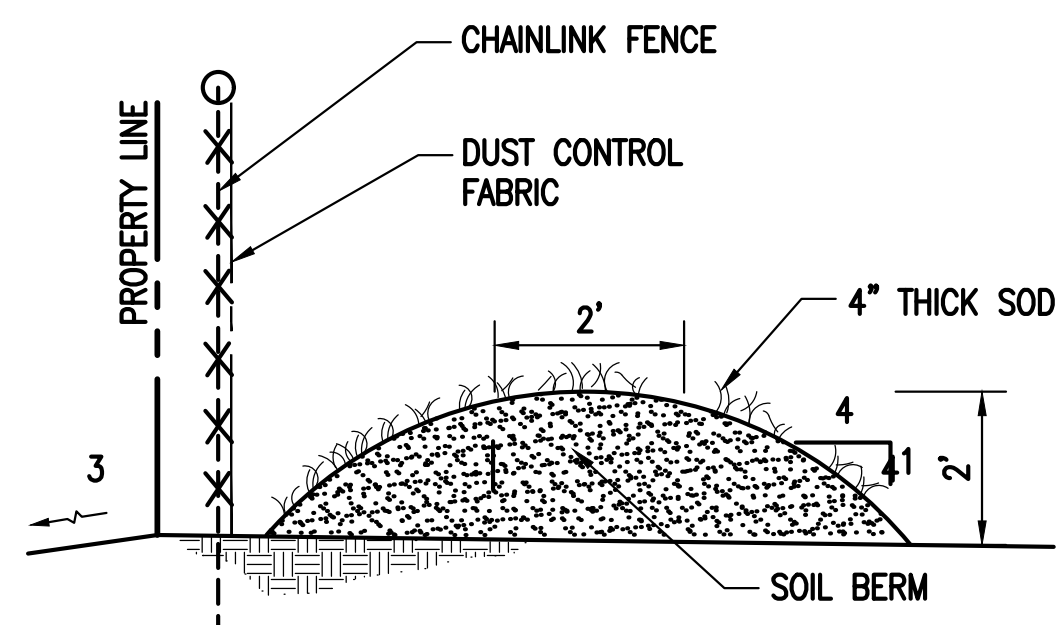
ALTERNATIVE 2

FENCE DETAIL WITH SEDIMENT TRAP



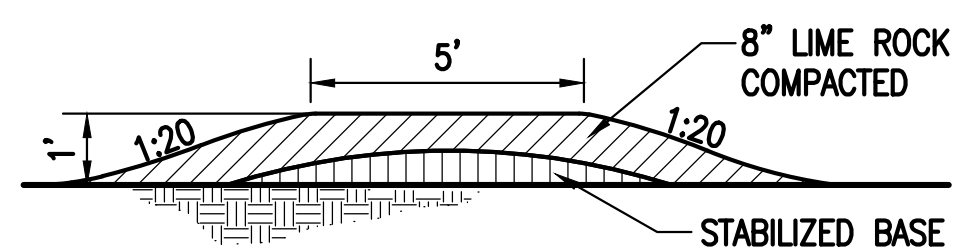
FENCE DETAIL WITH SEDIMENT TRAP

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.



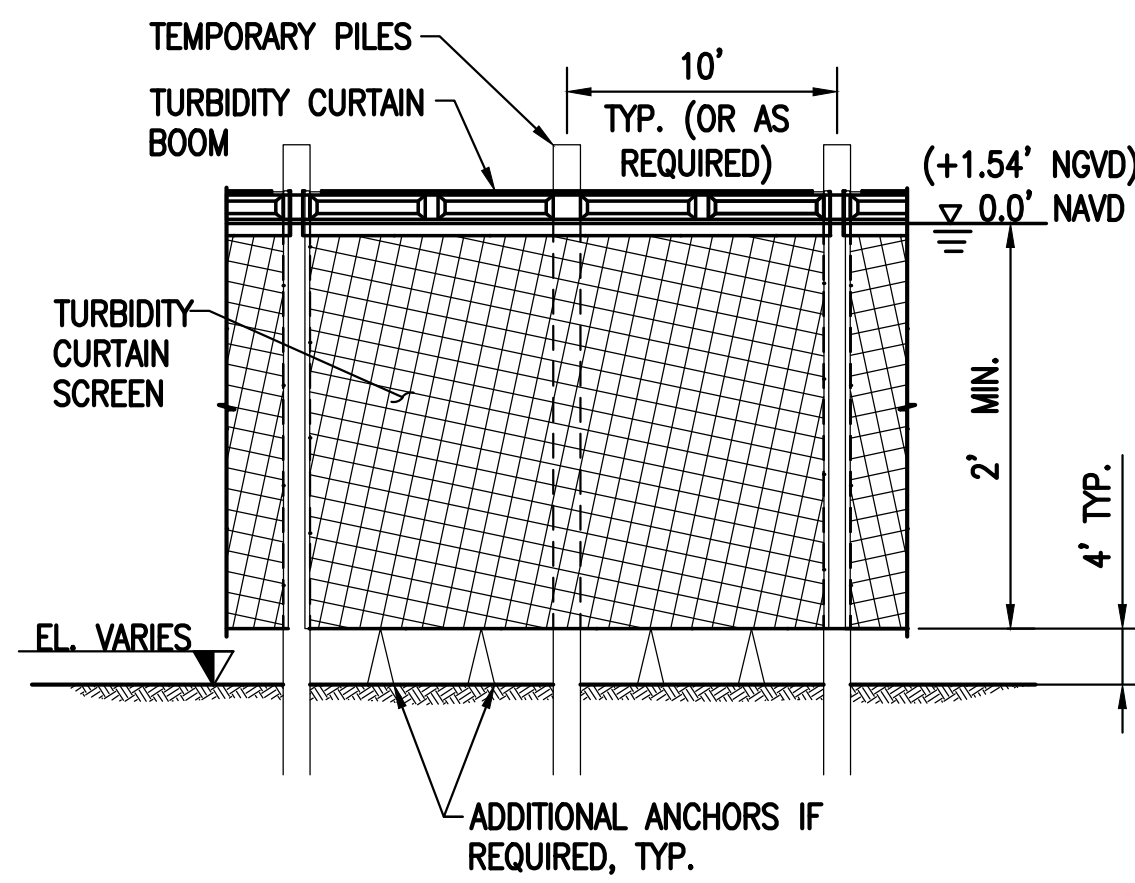
SEDIMENT CONTROL BARRIER

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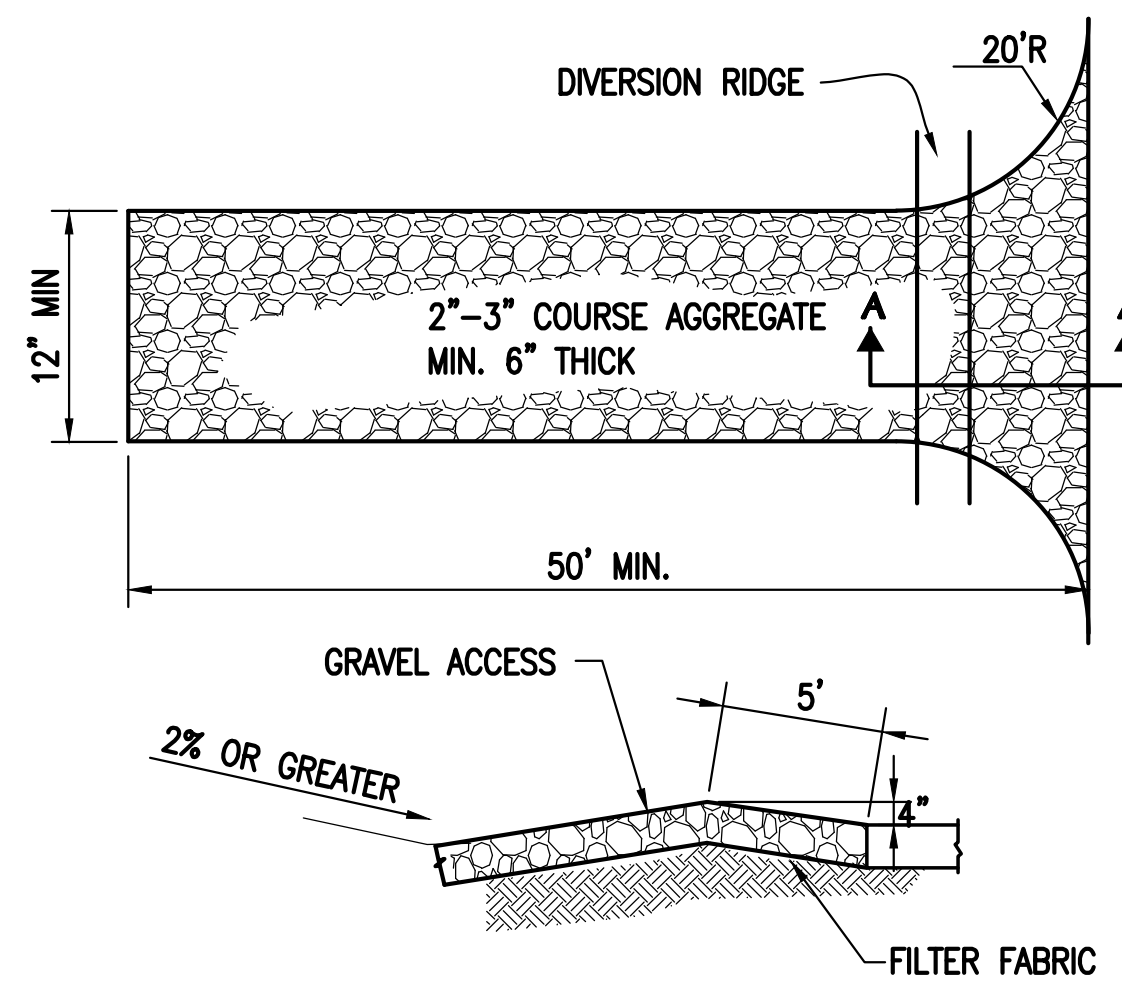
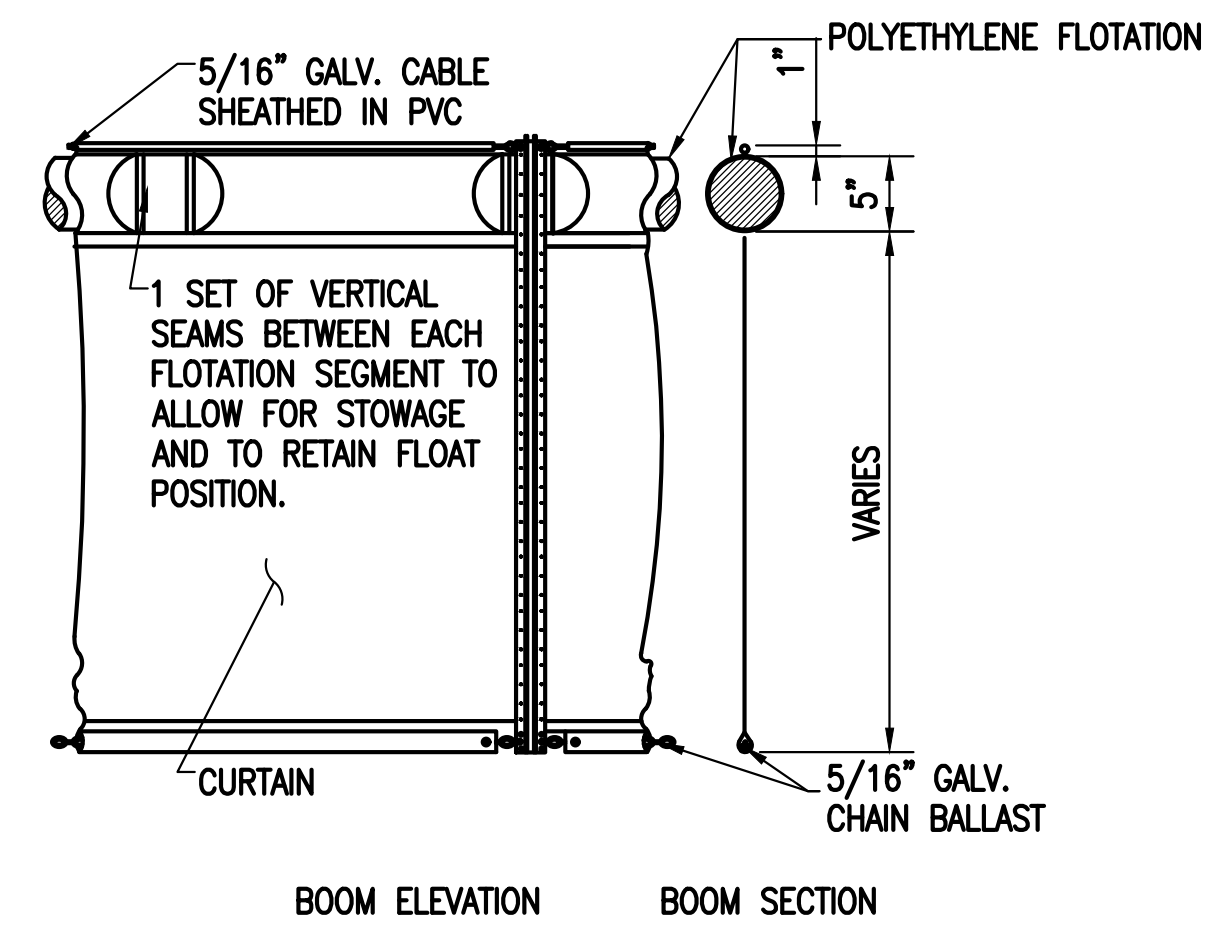


STONE BLANKET DETAIL

N.T.S.



A TURBIDITY CURTAIN DETAILS  
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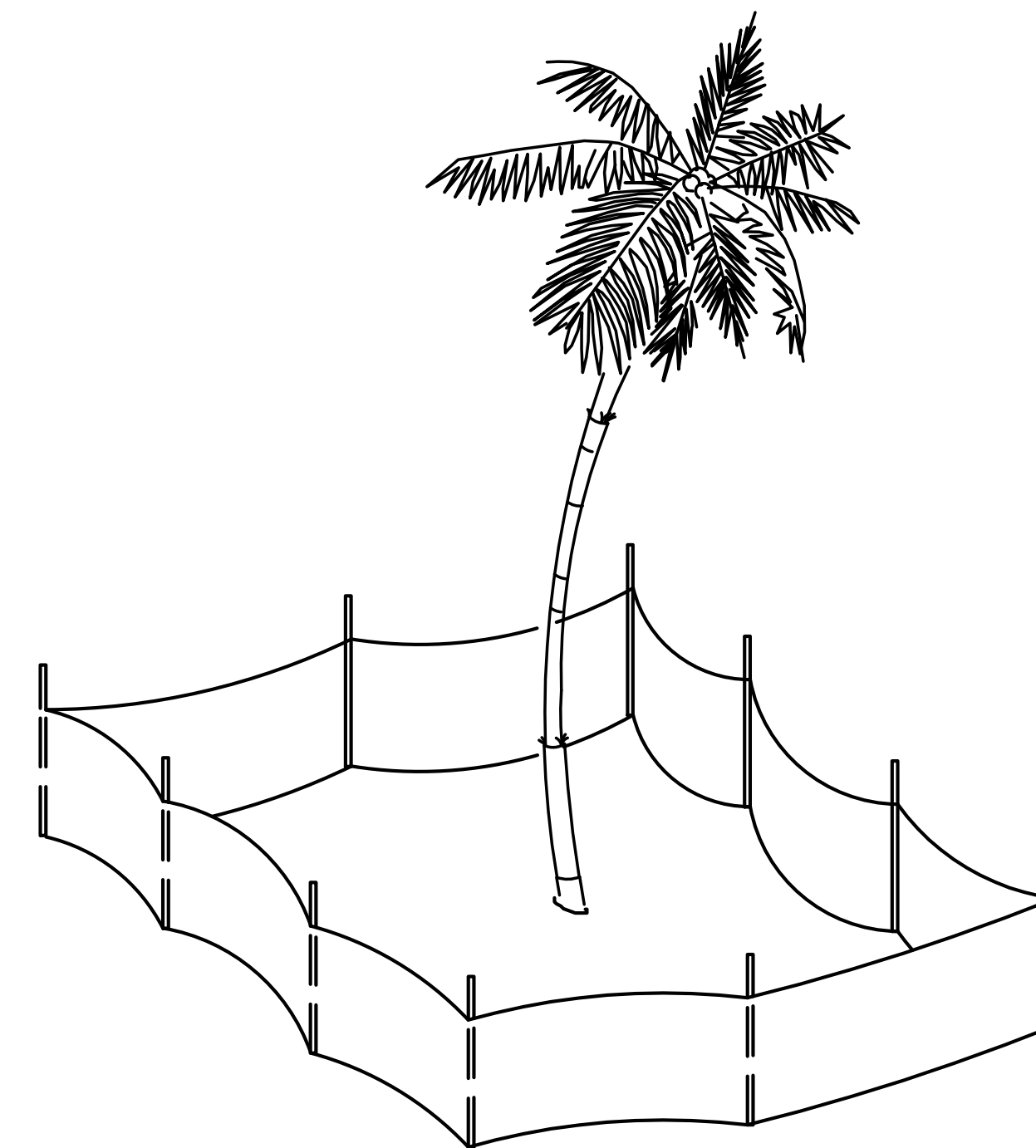


NOTE: DIVERSION RIDGE REQUIRED WHERE GRADE EXCEEDS 2%

SECTION A-A

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



FENCE PROTECTION AROUND TREES

N.T.S.

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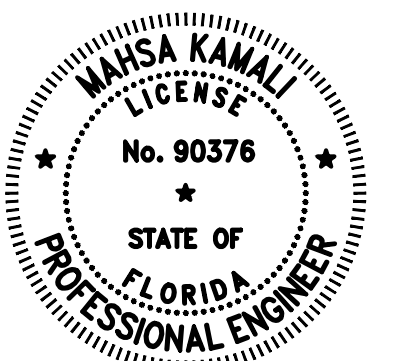


SEWELL PARK  
SHORELINE IMPROVEMENTS  
MIAMI, FL 33125

STORM WATER POLLUTION  
PREVENTION CONTROL DETAILS

SHEET TITLE:

CONSULTANT SPACE



DATE: 7/21/2021  
NAME: .  
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No.	REVISIONS - SUBMITTALS	DATE
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**8) PROJECT DESIGN:**

- a) Has the design work been completed? If this is a Phase I project, has a preliminary design been developed?**

This is a Phase I design and permitting project. A preliminary design and permitting will begin once a consultant has been chosen through the City's procurement process.

- b) Are there unique beneficial aspects to the proposed design that enhance public usage or access, minimize environmental impacts, improve water quality or reduce costs?**

The addition of a new seawall/shoreline stabilization with replaced/additional riprap will result in optimal structural resistance against any hydrostatic pressure and the ability to withstand natural disasters. The proposed design will improve current drainage issues at the low-lying project site, and will address high-tide resiliency. Public usage of the waterfront will increase and water quality will improve by decreasing the debris materials that a low-lying area without seawall reinforcement can generate.

*(For reviewer only)*  
*(1-2 points)*

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**9) CONSTRUCTION TECHNIQUES:**

- a) Briefly explain the construction techniques to be utilized for this project. If a Phase I, elaborate on potential techniques.**

During Phase I, construction will not take place. In Phase II, standard construction techniques will involve materials that are well suited to South Florida's weather conditions.

- b) How are the utilized construction techniques appropriate for the project site?**

Standard construction techniques will be utilized as approved by the appropriate regulatory agencies, during Phase II of the project. Design, materials and construction techniques will be consistent with strengthening structural capacity and ensuring the maximum life expectancy possible.

- c) Identify any unusual construction techniques that may increase or decrease the costs of the project.**

No unusual construction techniques are anticipated.

*(For reviewer only)*  
*(1-3 points)*

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**10) CONSTRUCTION MATERIALS:**

- a) **List the materials to be utilized for this project. What is the design life of the proposed materials compared to other available materials?**

This request is for Phase 1 design and permitting. Design, materials and construction techniques will be consistent with strengthening to structural capacity and ensuring the maximum life expectancy possible.

- b) **Identify any unique construction materials that may significantly alter the project costs.**

None are anticipated.

*(For reviewer only)*  
*(1-3 points)*

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**RATING POINT**  
**TOTAL** \_\_\_\_\_

(Note: The total maximum score possible is dependent upon the project priority category but cannot exceed 50 points unless the project qualifies as an emergency-related project. The minimum score possible is 10 points. A score of 35 points or more is required to be considered for funding.)

Form No. 91-25A  
Rule 66B-2.005 (Effective Date: 3-21-01, revised 4-24-06, 1-27-14)



**ATTACHMENT E-5**

**FLORIDA INLAND NAVIGATION DISTRICT  
ASSISTANCE PROGRAM 2020**

**PROJECT COST ESTIMATE**

**(See Rule Section 66B-2.005 & 2.008 for eligibility and funding ratios)**

<b>Project Title:</b>	Sewell Park – Phase 1 – Seawall/Shoreline Stabilization and Baywalk
<b>Applicant:</b>	City of Miami

<b>Project Elements</b> <i>(Please list the MAJOR project elements and provide general costs for each one. For Phase I Projects, please list the major elements and products expected)</i>	<b>Quantity or Total Estimated Cost</b> <i>(Number and/or Footage etc.)</i>	<b>Applicant's Cost</b> <i>(To the nearest \$50)</i>	<b>FIND Cost</b> <i>(To the nearest \$50)</i>
Design	\$759,000	\$379,500	\$379,500
Testing and surveying	\$50,600	\$25,300	\$25,300
Permitting	\$7,590	\$3,795	\$3,795
Ineligible Administrative Fees	\$310,347	\$310,347	\$0

<b>**TOTALS =</b>	<b>\$1,127,537</b>	<b>\$718,942</b>	<b>\$408,595</b>
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**ATTACHMENT E-6  
WATERWAYS ASSISTANCE PROGRAM 2020**

**PROJECT TIMELINE**

<b>Project Title:</b>	Sewell Park – Phase 1 – Seawall /Shoreline Stabilization and Baywalk
<b>Applicant:</b>	City of Miami

The applicant is to present a detailed timeline on the accomplishment of the components of the proposed project including, as applicable, completion dates for: permitting, design, bidding, applicant approvals, initiation of construction and completion of construction.

**NOTE: All funded activities must begin AFTER October 1<sup>st</sup>**  
(or be consistent with Rule 66B-2.005(3) - Pre-agreement expenses)

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October 2020-March 2021	Bid Process	6 months	These months will include negotiation with contractors, award procedures and contract execution.
April 2021-September 2022	Design & Permitting	18 months	Design services and permitting applications for Phase 1 will be completed at this time.

**Waterways Assistance Program  
Application Review  
for Compliance with 66B-2 F.A.C**

**Applicant:** City of Miami

**Application:** Sewell Park Seawall Shoreline Stabilization & Baywalk, Phase I

**Review Comments:**

**Technical Sufficiency Items:**

- 1. Pursuant to Rule 66B-2.006(3), please submit a fully executed Resolution Form #90-21 (Attachment E-7).**

Please find the attached E-7.

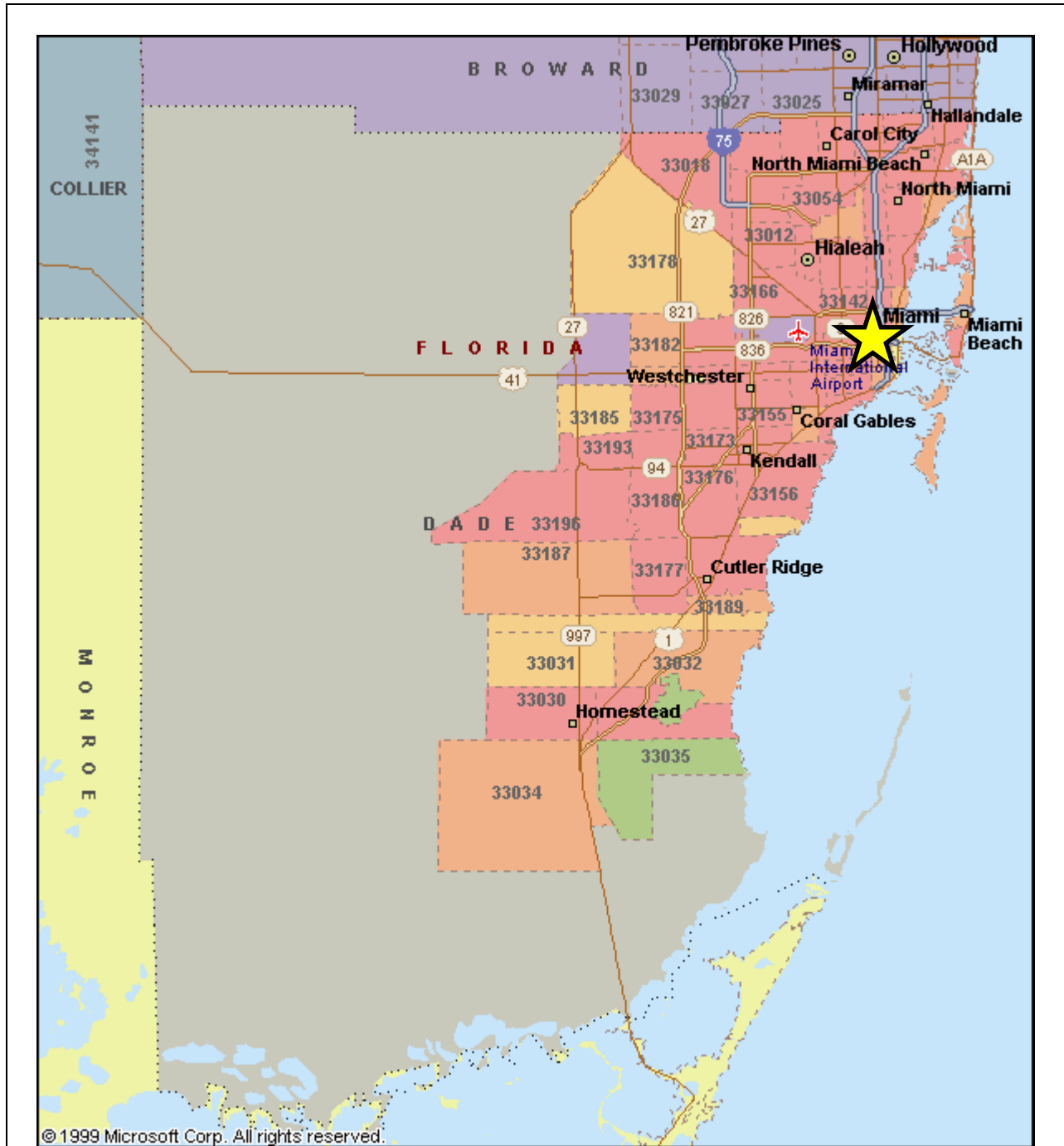
# 10. County Location Map



Locator Map of Miami-Dade County, 2008

Florida Center for Instructional Technology, (Tampa, FL: Florida Center for Instructional Technology, 2008)  
Downloaded from *Maps ETC*, on the web at <http://etc.usf.edu/maps> [map #f8603]

10. City Location Map



Waterways Assistance Program

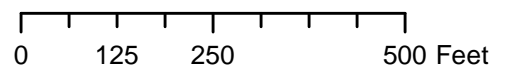
City of Miami



11. Project Boundary Map

City of Miami  
Application:

Sewell Park - Phase 1 -  
Seawall/Shoreline Stabilization and Baywalk





12. Site Development Map

City of Miami  
Application:

Sewell Park - Phase 1 -  
Seawall/Shoreline Stabilization and Baywalk

