OFFICIAL FILE COPY
CLERK OF THE BOARD
OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA

Memorandum

Date: October 1, 2024

To: Honorable Chairman Oliver G. Gilbert, III
and Members, Board of County Commissioners

From: Lourdes M. Gomez, Director
Department of Regulatory and Economic Resources

Agenda Item No. 5(K)

Resolution No. R-847-24

Subject: Class I Permit Application by Miami-Dade County, through its Department of Parks, Recreation, and Open Spaces

Recommendation

I have reviewed the attached application for a Class I permit by Miami-Dade County, through its Department of Parks, Recreation, and Open Spaces and based upon the applicable evaluation factors set forth in Section 24-48.3 of the Code of Miami-Dade County (Code), I recommend that the Board of County Commissioners (Board) approve the issuance of a Class I permit for the reasons set forth below.

Pursuant to Ordinance No. 16-73, this quasi-judicial matter may be submitted directly for placement on the Board's meeting agenda by the Director of the Department of Regulatory and Economic Resources.

Scope

The project site is located at 9610 Old Cutler Road, Coral Gables, Miami-Dade County, Florida, in Commission District 7, which is represented by Commissioner Raquel Regalado.

Delegation of Authority

This item has no delegation of authority. Upon approval of this item, Section 24-48.2(C)(2) of the Code authorizes the Department to issue the permit, provided that other Code requirements are satisfied, such as submittal of final plans and bonds, and to require additional conditions, limitations, and restrictions if consistent with this Board's approval.

Fiscal Impact/Funding Source

This resolution is a regulatory approval and does not have a fiscal impact.

Track Record/Monitor

The Coastal Resources Section Manager, Rockell Alhale, in the Department of Regulatory and Economic Resources, Division of Environmental Resources Management (DERM), will be responsible for monitoring the proposed permit.

Background

The subject Class I permit application requests authorization for the trimming and alteration of approximately 13,738 square feet of mangrove canopy in association with the installation of an elevated boardwalk within Matheson Hammock Park, within the City of Coral Gables, Miami-Dade County, Florida. The proposed project is required to be heard and decided upon by the Board at a public hearing because the alteration of mangroves within a Coastal Band Community and the filling of wetlands supporting halophytic vegetation is specifically referenced in Section 24-48.2 of the Code as work that shall be processed with a standard form application, including a public hearing.

The subject project area consists of a predominately red (*Rhizophora mangle*) mangrove shoreline, including white (*Laguncularia racemosa*) and black (*Avicennia germinans*) mangroves, located within Matheson Hammock Park and contains a damaged, and often submerged public asphalt pathway. The trimming and alteration of approximately 13,738 square feet of mangrove canopy within a Coastal Band Community would be required in order to install a boardwalk elevated above the footprint of the existing asphalt walkway. In order to allow for clearance for construction, all mangroves within 15 feet above the substrate were included in the impact total. Upon completion of the proposed work, it is reasonably anticipated that mangroves would continue to naturally recruit along the boardwalk. The permit would therefore allow for future maintenance trimming of eight feet above the elevation of the boardwalk and one foot along the sides of the railing of the boardwalk so that the boardwalk will be accessible to patrons of the park. In addition, to install an ADA compliant ramp at the end of the boardwalk, 0.05 square feet of halophytic wetlands would be required to be filled. The installation of a boardwalk is identified by the Code as work that can be processed administratively and is only coming before the Board as the aforementioned work is included in the subject application.

Based on the reasons herein and in the Project Report, DERM recommends approval of the alteration of mangroves within a Coastal Band Community and the installation of a boardwalk.

The project area is designated by the Miami-Dade County Comprehensive Development Master Plan (CDMP) as a Mangrove Protection Area. Trimming within a Mangrove Protection Area must be consistent with the criteria outlined in the Coastal Management Element of the CDMP. The CDMP states that in areas classified as Mangrove Protection Areas, there shall be "no cutting, trimming, pruning or other alteration including dredging or filling of mangroves" unless the project is "(1) necessary to prevent or eliminate a threat to public health, safety or welfare; (2) water dependent; (3) required for natural system restoration and enhancement; or (4) clearly in the public interest; and where no reasonable upland alternative exists. In such cases, the trimming or alteration shall be kept to the minimum, and done in a manner which preserves the functions of the mangrove system, and does not reduce or adversely affect habitat used by endangered or threatened species". The existing asphalt pathway has degraded to the point where sections are missing and due to the pathway's low elevation, frequently floods during extreme rain and tidal events. The pathway serves as the only pedestrian access from Old Cutler Road into Matheson Hammock Park and must be replaced to allow continued pedestrian access to the park. There are no reasonable upland alternative locations for the proposed boardwalk as the surrounding area is comprised of mangrove wetlands. The installation of the proposed boardwalk in an alternative location would result in significantly more impacts to mangrove wetlands than the proposal to install the boardwalk within the footprint of the existing, legal pathway. The proposed elevated boardwalk would provide a safe and structurally sound path for public use that is designed to account for future sea level rise. Additionally, the boardwalk would allow for tidal flushing of the adjacent mangroves and would prevent unauthorized, off-trail access.

Matheson Hammock Park is designated as a Heritage Park in Miami-Dade County and as a Historic Site listed in the Coral Gables Register of Historical Places, and replacing the existing, on-grade walkway with an elevated, resilient and accessible boardwalk within the same footprint is clearly in the public interest. For all of the reasons stated herein, the proposed work is consistent with this policy as the work is clearly in the public interest. Furthermore, the proposed trimming and alteration has been minimized and would be done in a manner that preserves the function of the mangrove system and does not reduce or adversely affect habitat used by endangered or threatened species. The Class I permit

would include authorization for the future maintenance trimming and alteration of mangroves along the boardwalk to maintain clearance.

In addition, the project is consistent with the criteria outlined in the Conservation, Aquifer Recharge, and Drainage Element of the CDMP. For the reasons stated above, the project is in the public interest and no other reasonable alternative exists. It is not anticipated that the project will adversely impact habitat that is critical to endangered and threatened species that may utilize mangrove wetlands.

According to Section 24-48.3(2) of the Code, dredging and filling work proposed in a Class I permit application shall comply with at least one of the criteria listed in that section of the Code. The proposed work would result in the minimal amount of filling of halophytic wetlands necessary to create an ADA compliant ramp to enter and disembark from the boardwalk. This is to improve the use and accessibility of a public walking path within a County park. As the work is a physical modification necessary to protect public or private property, the proposed project complies with the requirements in Section 24-48.3(2)(f) of the Code, which applies to dredging and filling work proposed in a Class I permit application.

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 and mitigation is required for permittable projects that otherwise result in adverse environmental impacts. The mitigation required to compensate for the water quality impacts associated with the filling of halophytic wetlands would be satisfied through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund. In addition, the project proposes approximately 13,738 square feet of mangrove trimming and alteration, the minimum necessary for the installation of the boardwalk at an elevation sufficient to account for sea level rise. Upon completion of the proposed work, it is reasonably anticipated that mangroves would continue to naturally recruit along the boardwalk. Mitigation associated with the removal of mangrove canopy would be satisfied through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund to be used by the Environmentally Endangered Lands (EEL) program to fund and complete a wetland restoration project within Matheson Hammock Park. In addition, the project area would also be maintained free of exotic pest plants and nuisance species in accordance with the Class I permit conditions.

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 and criteria as 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: Owner/Agent Letter, Engineer Letter and Project Sketches
Attachment C: Names and Addresses of Owners of All Riparian or Wetland Property within Three Hundred (300) Feet of the Proposed Work
Attachment D: Zoning Memorandum
Attachment E: DERM Project Report

Attachment A

Class I Permit Application

MIAMI-DADE COUNTY

Class I Permit Application

FOR DEPARTMENTAL USE ONLY	
Date Received: (Updated 09/09)	**Application Number:** **Application Fee:**

Application must be filled out in its entirety. Please indicate N/A for non-applicable fields.

1. Applicant Information:

Name: Miami-Dade County Parks, Recreation, and Open Spaces

Address: 275 NW 2nd Street

Miami, Florida Zip Code: 33128

Phone #: 305-755-7800 Fax#:

Email: Humberto.Cabanas@miamidade.gov

* This should be the applicant's information for contact purposes.

2. Applicant's Authorized Permit Agent:

Agent is allowed to process the application, furnish supplemental information relating to the application and bind the applicant to all requirements of the application.

Name: Cummins Cederberg, Inc. Attn: Gina Chiello

Address: 140 Intracoastal Point, Suite 208

Jupiter, Florida Zip Code: 33477

Phone #: 561-903-2708 Fax #: 305-974-1969

Email: gchiello@cumminscederberg.com

3. Location where proposed activity exists or will occur (latitude and longitude are only necessary for properties without address or folio #):

Folio #(s): 03-5106-000-0010, 03-5106-000-0050, 03-5105-001-0010, 03-5105-000-0010 Latitude: Longitude:

Street Address: 9610 Old Cutler Road Section: 1. S6 2. S5 Township: 1. & 2. T55S Range: 1.& 2. R41E

In City or Town: Coral Gables Near City or Town: Miami

Name of waterway at location of the activity: Biscayne Bay Aquatic Preserve

4. Describe the proposed activity (check all that apply):

- ☐ Seawall
  - ☐ New/Replacement Seawall
  - ☐ Seawall Cap
  - ☐ Batter Piles
  - ☐ King Piles
  - ☐ Footer/Toe Wall
  - ☐ Riprap
- ☐ Dock(s)
  - ☐ Pier(s)
  - ☐ Viewing Platform
- ☐ Boatlift
  - ☐ Mooring Piles
  - ☐ Fender Piles
  - ☐ Davits
- ☐ Dredging
  - ☐ Maintenance
  - ☐ New
- ☐ Filling
- ☒ Mangrove Trimming
- ☒ Mangrove Removal

☒ Other: Boardwalk

Estimated project cost = $ $2,617,953

Are you seeking an after-the-fact approval (ATF)? ☐ Yes ☒ No If "Yes", describe the ATF work:

5. Proposed Use (check all that apply):

- ☐ Single Family
- ☐ Multi-Family
- ☐ Private
- ☒ Public
- ☐ Commercial
- ☐ Industrial
- ☐ Utility

6. If the proposed work relates to the mooring of vessels provide the following information (please also indicate if the applicant does not have a vessel):

Proposed Vessel Type (s): N/A for this submittal

Vessel Make/Model (If known):

Draft (s)(range in inches.): Length (s)(range in feet.):

Total Number of Slips:

7. List all permits or certifications that have been applied for or obtained for the above referenced work:

Issuing Agency	Type of Approval	Identification Number	Application Date	Approval Date

8. Contractor Information (If known):

Name: To Be Determined _____License # (County/State):_____

Address: _____Zip Code: _____

Phone #:_____ Fax #:_____ E-mail:_____

9. IMPORTANT NOTICE TO APPLICANTS: The written consent of the property owner is required for all applications to be considered complete. Your application WILL NOT BE PROCESSED unless the Applicant **and** Owner Consent portion of the application is completed below. You have the obligation to apprise the Department of any changes to information provided in this application.

Application is hereby made for a Miami-Dade County Class I permit to authorize the activities described herein. I agree to or affirm the following:

- I possess the authority to authorize the proposed activities at the subject property, and
- I am familiar with the information, data and plans contained in this application, and
- To the best of my knowledge and belief, the information, data and plans submitted are true, complete and accurate, and
- I will provide any additional information, evidence or data necessary to provide reasonable assurance that the proposed project will comply with the applicable State and County water quality standards both during construction and after the project is completed, and
- I am authorizing the permit agent listed in Section 2 of this application to process the application, furnish supplemental information relating to this application and bind the applicant to all requirements of this application, and
- I agree to provide access and allow entry to the project site to inspectors and authorized representatives of Miami-Dade County for the purpose of making the preliminary analyses of the site and to monitor permitted activities and adherence to all permit conditions.

A. IF APPLICANT IS AN INDIVIDUAL

Signature of Applicant	Print Applicant's Name	Date

B. IF APPLICANT IS OTHER THAN AN INDIVIDUAL OR NATURAL PERSON
(Examples: Corporation, Partnership, Trust, LLC, LLP, etc.)

Print Name of Applicant (Enter the complete name as registered)	Type (Corp, LLC, LLP, etc.)	State of Registration/Incorporation
Miami-Dade Parks, Recreation, and Open Spaces		Florida

Under the penalty of perjury, I certify that I have the authority to sign this application on behalf of the Applicant, to bind the Applicant, and if so required to authorize the issuance of a bond on behalf of the Applicant. (If asked, you must provide proof of such authority to the Department). ***Please Note: If additional signatures are required, pursuant to your governing documents, operating agreements, or other applicable agreements or laws, you must attach additional signature pages. ***

Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date
	Humberto Cabanas	Chief, Design & Construction Excellence	Dec 1, 2020

C. IF APPLICANT IS A JOINT VENTURE Each party must sign below(If more than two members, list on attached page)

Print Name of Applicant (Enter the complete name as registered)	Type (Corp, LLC, LLP, etc.)	State of Registration/Incorporation
Print Name of Applicant (Enter the complete name as registered)	Type (Corp, LLC, LLP, etc.)	State of Registration/Incorporation

Under the penalty of perjury, I certify that I have the authority to sign this application on behalf of the Applicant, to bind the Applicant, and if so required to authorize the issuance of a bond on behalf of the Applicant. (If asked, you must provide proof of such authority to the Department). ***Please Note: If additional signatures are required, pursuant to your governing documents, operating agreements, or other applicable agreements or laws, you must attach additional signature pages. ***

Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date
Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date

10. WRITTEN CONSENT OF THE PROPERTY OWNER OF THE AREA OF THE PROPOSED WORK

I/We are the fee simple owner(s) of the real property located at 9610 Old Cutler Road Miami-Dade County, Florida, otherwise identified in the public records of Miami-Dade County as Folio No. 03-5106-000-0010, 03-5106-000-0050, 03-5105-001-0010, 03-5105-000-0010
I am aware and familiar with the contents of this application for a Miami-Dade County Class I Permit to perform the work on or adjacent to the subject property, as described in Section 4 of this application. I possess the riparian rights to the area of the proposed work (if applicable) and hereby consent to the work identified in this Class I Permit application.

A. IF THE OWNER(S) IS AN INDIVIDUAL

Signature of Owner	Print Owner's Name	Date
Signature of Owner	Print Owner's Name	Date

B. IF THE OWNER IS OTHER THAN AN INDIVIDUAL OR NATURAL PERSON
(Examples: Corporation, Partnership, Joint Venture, Trust, LLC, LLP, etc.)

Print Name of Owner (Enter the complete name as registered)	Type (Corp, LLC, LLP, etc.)	State of Registration/Incorporation
Miami-Dade County Parks, Recreation, and Open Spaces		Florida

275 NW 2nd Street, Miami, Florida, 33128
Address of Owner

Under the penalty of perjury, I certify that I have the authority to sign this application on behalf of the Owner, to bind the Owner, and if so required to authorize the issuance of a bond on behalf of the Owner. (If asked, you must provide proof of such authority to the Department). ***Please Note: If additional signatures are required, pursuant to your governing documents, operating agreements, or other applicable agreements or laws, you must attach additional signature pages. *

Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date
	Humberto Cabanas	Chief, Design and Construction Excellence	Dec 1, 2020
Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date

Please Review Above

Appropriate signature(s) must be included in:

Box 9: either A, B **or** C

AND

Box 10: either A **or** B

Attachment B

Owner/Agent Letter, Engineer Letter, and Project Sketches

PERMIT APPLICANT / AUTHORIZED AGENT STATEMENT

Date: October 27, 2023

Miami Dade County Department of Regulatory and Economic Resources
Class I Permitting Program
701 NW 1st Court
Miami, FL 33136

Re: Class I Standard Form Permit Application Number CLI-2020-0460

By the attached Class I Standard Form permit application with supporting documents, I, Gina Chiello, Cummins Cederberg, Inc., am the permit agent and hereby request permission to perform the work associated with Class I Permit Application CLI-2020-0460. 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 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. The permit applicant will secure the services of an engineer 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,

Gina Chiello

gina Chiello

ENGINEER LETTER OF CERTIFICATION

Date: October 26, 2023

Miami-Dade County Department of Regulatory and Economic Resources
Class I Permitting Program
701 NW 1st Court
Miami, Florida 33136

RE: Class I Permit Application Number CLI-2020-0460

Ladies and Gentlemen:

This letter will certify that I am an engineer licensed in the State of Florida, qualified by education and experience in the area of engineering design and inspection, and that to the best of my knowledge and belief, the proposed work does not violate any laws, rules, or regulations of the State of Florida or any provisions 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 of 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)

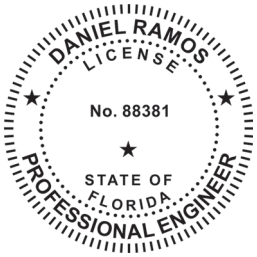
c. Material injury to adjacent property.

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

Further, I have been 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, certified surveys, drawings, and other data furnished by the contractor to me.

Sincerely,

Daniel Ramos, PE
Director of Ports and Marine. Engineering
P.E. # 88381



CORDOVA RODRIGUEZ & ASSOCIATES, INC.

Date: October 26, 2023

Miami-Dade County Department of Regulatory and Economic Resources
Class I Permitting Program
701 NW 1st Court
Miami, Florida 33136

RE: Class I Permit Application Number CLI-2020-0460

Ladies and Gentlemen:

This letter will certify that I am an engineer licensed in the State of Florida, qualified by education and experience in the area of engineering design and inspection, and that to the best of my knowledge and belief, the proposed work does not violate any laws, rules, or regulations of the State of Florida or any provisions 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 of 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.

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Further, I have been 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, certified surveys, drawings, and other data furnished by the contractor to me.

Sincerely,

Luis E. Rodriguez, P.E. 54287

10/24/2023

LUIS E. RODRIGUEZ LICENSE No. 54287 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY LUIS E. RODRIGUEZ ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Broward Office
6941 SW 196th Avenue, Suite 28
Pembroke Pines, FL 33332
Office 954.880.0180 Fax 954.880.0181

Miami-Dade Office
1031 Ives Dairy Road, Suite 228
Miami, FL 33179
Office 786.287.2530 Fax 866.682.8126

WWW.CRAengineering.com

MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION

9610 OLD CUTLER ROAD, CORAL GABLES, FL. 33156
MIAMI-DADE COUNTY, FLORIDA

CONTRACT NO. 999999-15-012
PROJECT NO. A15-PROS-02, GOB ESP
PROS PROJECT NO. 510601-19-003
100% CONSTRUCTION DRAWINGS
MARCH 14th, 2024

MDC012

Honorable Daniella Levine Cava
Mayor

BOARD OF COUNTY COMMISSIONERS

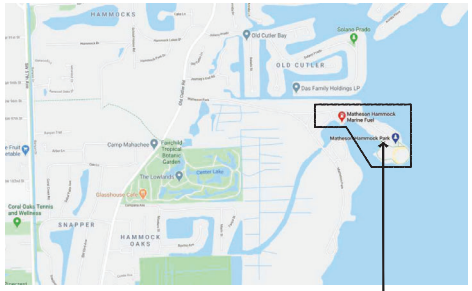
Honorable Oliver G. Gilbert, III, Chairman — District 1
Honorable Anthony Rodriguez, Vice-Chairman — District 10

Honorable Marleine Bastien — District 2
Honorable Keon Hardemon — District 3
Honorable Micky Steinberg — District 4
Honorable Eileen Higgins — District 5
Honorable Kevin M. Cabrera — District 6
Honorable Raquel A. Regalado — District 7
Honorable Danielle Cohen Higgins — District 8
Honorable Kionne L. McGhee — District 9
Honorable Robert J. Gonzalez — District 11
Honorable Juan Carlos Bermudez — District 12
Honorable Rene Garcia — District 13

JUAN FERNANDEZ-BARQUIN
Clerk of Courts
Pedro J. Garcia
Property Appraiser
Geri Bonzon-Keenan
County Attorney

MIAMI-DADE COUNTY provides equal access and equal opportunity in employment and services and does not discriminate on the basis of disability.

PARKS, RECREATION AND OPEN SPACES
Maria I. Nardi, Director



NORTH

LOCATION MAP
SCALE: N.T.S.

MATHESON HAMMOCK PARK

MIAMI-DADE COUNTY
Parks, Recreation and Open Spaces Department

ADA STATEMENT OF COMPLIANCE

Per Miami-Dade County Administrative Order No. 10-10:

"These construction documents are compliant with the ADA Accessibility Guidelines (ADAAG) and Uniform Federal Accessibility Standards (UFAS) where applicable."

QUALIFIER'S SIGNATURE — DATE
275 NW 2nd St, 4th Floor
Miami, Florida, 33128
Tel: (305) 755-7847

NOTE: IF THERE ARE ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS THE CONTRACTOR MUST CONTACT THE ARCHITECT AND ENVIRONMENTAL ENGINEER TO RESOLVE SAID CONFLICTS.

INDEX OF DRAWINGS

-	COVER
SP-000	SITE PLAN AND ZONING ANALYSIS
SH-01	SURVEY
SH-02	SURVEY
SH-03	SURVEY
SH-04	SURVEY
EC-001	EXISTING WETLAND PLAN
EC-002	EXISTING WETLAND PLAN
EC-003	EXISTING WETLAND PLAN
EC-004	WETLAND DELINEATION & BOARDWALK PLAN
EC-005	WETLAND DELINEATION & BOARDWALK PLAN
EC-006	WETLAND DELINEATION & BOARDWALK PLAN
C-101	ASPHALT REMOVAL PLANS
C-102	ASPHALT REMOVAL PLANS
C-103	ASPHALT REMOVAL PLANS
C-104	ASPHALT REMOVAL PLANS
C-105	ASPHALT REMOVAL PLANS
C-106	ASPHALT REMOVAL PLANS
C-107	ASPHALT REMOVAL PLANS
C-108	ASPHALT REMOVAL PLANS
C-109	ASPHALT REMOVAL PLANS
C-110	ASPHALT REMOVAL PLANS
C-121	STORMWATER POLLUTION PREVENTION PLANS
C-122	STORMWATER POLLUTION PREVENTION PLANS
C-123	STORMWATER POLLUTION PREVENTION PLANS
C-124	STORMWATER POLLUTION PREVENTION PLANS
C-125	STORMWATER POLLUTION PREVENTION PLANS
LA-111	TREE PROTECTION NOTES & DETAILS
LA-201	BOARDWALK AND FURNITURE PLAN
LA-202	BOARDWALK AND FURNITURE PLAN
LA-203	BOARDWALK AND FURNITURE PLAN
LA-204	BOARDWALK AND FURNITURE PLAN
LA-205	BOARDWALK AND FURNITURE PLAN
LA-206	BOARDWALK AND FURNITURE PLAN
LA-207	BOARDWALK AND FURNITURE PLAN
LA-208	BOARDWALK AND FURNITURE PLAN
LA-209	BOARDWALK AND FURNITURE PLAN
LA-210	BOARDWALK AND FURNITURE PLAN
LA-211	HARDSCAPE PAVING & FIN. AND FURN. & MATERIALS LEGEND
LA-212	HARDSCAPE PAVING AND FURNITURE DETAILS
LA-213	HARDSCAPE PAVING AND FURNITURE DETAILS
LA-214	HARDSCAPE PAVING AND FURNITURE DETAILS
LA-215	HARDSCAPE PAVING AND FURNITURE DETAILS
LA-216	NFC IMPACTS DIAGRAM AND QUANTITIES
S-201	FOUNDATION AND BOARDWALK FRAMING PLAN
S-202	FOUNDATION AND BOARDWALK FRAMING PLAN
S-203	FOUNDATION AND BOARDWALK FRAMING PLAN
S-204	FOUNDATION AND BOARDWALK FRAMING PLAN
S-205	FOUNDATION AND BOARDWALK FRAMING PLAN
S-206	FOUNDATION AND BOARDWALK FRAMING PLAN
S-207	FOUNDATION AND BOARDWALK FRAMING PLAN
S-208	FOUNDATION AND BOARDWALK FRAMING PLAN
S-300	GENERAL STRUCTURAL NOTES
S-301	TYPICAL FRAMING PLAN VIEW AND TYPICAL SECTIONS
S-302	TYPICAL FRAMING PLAN VIEW AND TYPICAL SECTIONS
S-303	TYPICAL FRAMING PLAN VIEW AND TYPICAL SECTIONS
S-304	HELICAL PILE AND CONNECTION DETAILS

CONSTRUCTION IN ENVIRONMENTALLY SENSITIVE PLANT COMMUNITIES AND TIDAL WETLANDS:

DUE TO THE ENVIRONMENTALLY SENSITIVE LOCATIONS OF THE PROPOSED IMPROVEMENTS, CONTRACTOR IS ADVISED THAT THE USE OF MACHINERY AND EQUIPMENT IS LIMITED AND IN SOME INSTANCES IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL FACTOR IN THE COST OF THE FOLLOWING CONDITIONS WHEN BIDDING AND CONSTRUCTING THIS PROJECT:

1. CONTRACTOR IS SUBJECT FOR ALL TERMS AND CONDITIONS OF THE DERM CLASS 1 PERMIT AS WELL AS FDEP AND USACE PERMIT CONDITIONS.
2. VERTICAL TRIMMING OF MANGROVE, AS DEFINED BY THE CLASS 1 DERM PERMIT, IS NOT PERMITTED. MANGROVE TRIMMING IS LIMITED TO WHAT IS DESCRIBED IN THE CLASS 1 DERM PERMIT.
3. ALL ASPHALT SHALL BE REMOVED USING NON-MECHANICAL METHODS. THE USE OF EQUIPMENT FOR THIS ACTIVITY/EXERCISE IS PROHIBITED.
4. FOR CONSTRUCTION OF THE ASPHALT PATHWAY AT THE WEST END OF THE PROJECT, MECHANICAL EQUIPMENT IS STRICTLY PROHIBITED. ONLY CONVEYORS, HAND PULL CARTS AND WHEELBARROWS ARE PERMITTED. IN THIS AREA, EVERY EFFORT SHALL BE MADE TO NOT COMPACT THE EXISTING FOREST FLOOR WHICH IS ENVIRONMENTALLY SENSITIVE TO COMPACTION. SHOULD A TREE DIE FROM COMPACTION CAUSED BY THE CONTRACTOR, THEY SHALL BE FINANCIALLY RESPONSIBLE FOR ALL MITIGATION INCLUDING DESIGN FEES, PERMIT FEES, PLANT MATERIAL COST AND ANY FINES LEVIED BY REGULATORY AGENCIES.
5. FOR CONSTRUCTION OF THE BOARDWALK, LIGHT EQUIPMENT AND MACHINERY, SUCH AS A UTILITY ATV, MAY BE USED TO HAUL MATERIAL AND SUPPLIES. USE OF SUCH MACHINERY IS LIMITED AND SHALL BE CONFINED TO THE ALIGNMENT OF THE EXISTING ASPHALT.
6. IT IS MANDATORY FOR ALL BIDDERS TO VISIT THE SITE AND ASK ALL QUESTIONS PRIOR TO BID SUBMITTAL RELATED BUT NOT LIMITED TO CONSTRUCTION SEQUENCES, STAGING AND STORAGE AREAS, ETC.
7. THE AREA WHERE PILES WILL BE INSTALLED IS ENVIRONMENTALLY SENSITIVE AND THERE ARE SIGNIFICANT SPACE AND ACCESSIBILITY CONCERNS THAT MAY PRECLUDE THE USE OF CONVENTIONAL PILE INSTALLATION METHODOLOGY, AND THAT SPECIALIZED EQUIPMENT AND METHODOLOGY MAY BE REQUIRED TO INSTALL THESE PILES.
8. IT IS THE CONTRACTOR'S OBLIGATION TO FAMILIARIZE THEMSELVES WITH THESE CONSTRAINTS/CONDITIONS IN PREPARING THEIR BID.

CIVIL ENGINEERING, STRUCTURAL ENGINEERING
BERMELLO AJAMIL & PARTNERS, INC.
2601 SOUTH BAYSHORE DRIVE SUITE 1000
MIAMI, FL 33133
PHONE: 305-859-2050

CORDOVA RODRIGUEZ & ASSOCIATES, INC.
1031 IVES DAIRY ROAD, SUITE 228
MIAMI, FL 33179
PHONE: 786.287.2530

COASTAL & MARINE ENGINEERING
CUMMINS CEDERBERG
7550 RED ROAD, SUITE 217
SOUTH MIAMI, FL 33143
PHONE: 305-741-6155

PARKS, RECREATION AND OPEN SPACES

_____ Department Director
_____ Assistant Director of Planning, Design and Construction Excellence
_____ Assistant Director of Operations Management Division
_____ Chief-Design and Construction Excellence

ZONING ANALYSIS

PROPERTY ADDRESS: 9610 OLD CUTLER ROAD. CORAL GABLES, FL. 33156

FOLIO: 03-5105-000-0010

LOT SIZE: 187 ACRES

ZONING CLASSIFICATION: S - SPECIAL DISTRICT

LAND USE: 550 COUNTY OPERATED PARKS

ALLOWED USES UNDER S CLASSIFICATION: COUNTY OWNED PARK

PARKING REQUIREMENTS: N/A. PARKING LOTS ARE NIC.

PARKING SPACES PROVIDED: N/A. PARKING LOTS ARE NIC.

ADA PARKING SPACES REQUIRED: PARKING SPACES ARE EXISTING AND SHALL REMAIN. PARKING LOTS ARE NIC.

STROLLER PARKING REQUIRED: UP TO 100 PARKING SPACES - 0 REQUIRED

ELECTRIC VEHICLE SUPPLY EQUIPMENT EVSE-READY SPACES: 10 OR MORE SPACES 10% OF THE REQUIRED PARKING SPACES: 0 REQUIRED

BICYCLE PARKING REQUIRED: NOT APPLICABLE

LOT COVERAGE: MAX. LOT COVERAGE % OF LOT AREA - NOT APPLICABLE

PROPOSED BLDG - NOT APPLICABLE

MINIMUM BUILDING SIZE: NOT APPLICABLE

SETBACKS: NOT APPLICABLE AS NO BUILDINGS ARE BEING PROPOSED.

CODE SUMMARY:

APPLICABLE CODES: FLORIDA BUILDING CODE 2020 EDITION; NFPA 101 - 2015 EDITION

FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION 2020 EDITION

OCCUPANCY: NOT APPLICABLE

BUILDING SUMMARY: NO BUILDINGS ARE PROPOSED IN THIS PROJECT.

BUILDING TYPE: NOT APPLICABLE

STAGING AREAS DIAGRAM

RESILIENCY CONSIDERATIONS: LOCATED IN FLOOD ZONE VE. PER ORDINANCE 14-79 AND RESOLUTION R-451-14, MUST CONSIDER IMPACTS OF SEA LEVEL RISE. SEA LEVEL RISE FLOOR MITIGATION CONSIDERATIONS HAVE BEEN TAKEN TO MAKE THE BOARDWALK TO A LEVEL THAT IS HIGHER THAN THE KING TIDE EVENTS.

ARCHAEOLOGICAL CONSIDERATIONS: PER THE REGULATORY AND ECONOMIC RESOURCES DEPARTMENT THERE ARE NO RECORDED ARCHAEOLOGICAL RESOURCES WITHIN THE AREA OF POTENTIAL EFFECT AND THE PROBABILITY OF LOCATING ANY ARCHAEOLOGICAL RESOURCES IS LOW.

HISTORIC CONSIDERATIONS: MATHESON HAMMOCK PARK HAS ITS OWN HISTORIC DISTRICT IN CORAL GABLES CALLED "MATHESON HAMMOCK PARK HISTORIC DISTRICT. THERE ARE SEVERAL HISTORIC BUILDINGS LOCATED IN THE PARK. ALTHOUGH HISTORIC STRUCTURES DO EXIST ON THE PROPERTY, THIS PROJECT DOES NOT IMPACT UPON THOSE BUILDINGS.

ENVIRONMENTAL CONSIDERATIONS: PER A DERM CONTAMINATED SITES DATABASE SEARCH, MATHESON HAMMOCK PARK HAS NOT BEEN IDENTIFIED AS A CONTAMINATED SITE. PER FDEP CONTAMINATION LOCATOR MAP AND FDEP ENVIRONMENTAL SPECIALIST I MATHESON HAMMOCK PARK MARINA HAS NO CURRENT CONTAMINATION ISSUES IN THEIR RECORDS.

LEED CONSIDERATIONS: PER CITY OF CORAL GABLES, IF ANY BUILDING INFRASTRUCTURE IS TO BE CONSTRUCTED, IT MUST BE LEED SILVER RATING OR HIGHER. THERE ARE NO PROPOSED BUILDINGS IN THIS PROJECT SCOPE, THEREFORE THERE ARE NO LEED REQUIREMENTS.

CONSTRUCTION IN ENVIRONMENTALLY SENSITIVE PLANT COMMUNITIES AND TIDAL WETLANDS: DUE TO THE ENVIRONMENTALLY SENSITIVE LOCATIONS OF THE PROPOSED IMPROVEMENTS, CONTRACTOR IS ADVISED THAT THE USE OF MACHINERY AND EQUIPMENT IS LIMITED AND IN SOME INSTANCES IS STRICTLY PROHIBITED. THE WORK IS OCCURRING IN MIAMI-DADE COUNTY NATURAL FOREST COMMUNITY (NFC) HARDWOOD HAMMOCK AND MIAMI-DADE COUNTY ENVIRONMENTAL ENDAGERED LANDS (EEL). THE CONTRACTOR SHALL FACTOR IN THE COST OF THE FOLLOWING CONDITIONS WHEN BIDDING AND CONSTRUCTING THIS PROJECT:

1. CONTRACTOR IS SUBJECT FOR ALL TERMS AND CONDITIONS OF THE DERM CLASS 1 PERMIT.
2. VERTICAL TRIMMING OF MANGROVE, AS DEFINED BY THE CLASS 1 DERM PERMIT, IS NOT PERMITTED. MANGROVE TRIMMING IS LIMITED TO WHAT IS DESCRIBED IN THE CLASS 1 DERM PERMIT.
3. ALL ASPHALT SHALL BE REMOVED USING NON-MECHANICAL METHODS. THE USE OF EQUIPMENT FOR THIS ACTIVITY/EXERCISE IS PROHIBITED.
4. FOR CONSTRUCTION OF THE ASPHALT PATHWAY AT THE WEST END OF THE PROJECT, MECHANICAL EQUIPMENT IS STRICTLY PROHIBITED. ONLY CONVEYORS, HAND PULL CARTS AND WHEELBARROWS ARE PERMITTED. IN THIS AREA, EVERY EFFORT SHALL BE MADE TO NOT COMPACT THE EXISTING FOREST FLOOR WHICH IS ENVIRONMENTALLY SENSITIVE TO COMPACTION. SHOULD A TREE DIE FROM COMPACTION CAUSED BY THE CONTRACTOR, THEY SHALL BE FINANCIALLY RESPONSIBLE FOR ALL MITIGATION INCLUDING DESIGN FEES, PERMIT FEES, PLANT MATERIAL COST AND ANY FINES LEVIED BY REGULATORY AGENCIES.
5. FOR CONSTRUCTION OF THE BOARDWALK, LIGHT EQUIPMENT AND MACHINERY, SUCH AS A HONDA UTILITY ATV, MAY BE USED TO HAUL MATERIAL AND SUPPLIES. USE OF SUCH MACHINERY IS LIMITED AND SHALL BE CONFINED TO THE ALIGNMENT OF THE EXISTING ASPHALT.

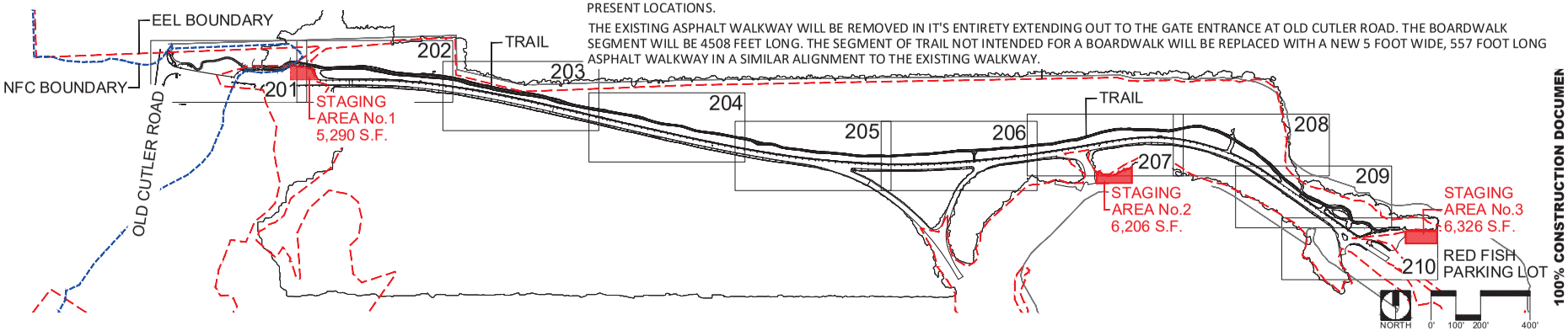
PROJECT SCOPE:

THE PROPOSED MATHESON HAMMOCK PARK MANGROVE TRAIL RENOVATION PROJECT SCOPE INCLUDES AN ELEVATED ACCESSIBLE WOOD BOARDWALK AT 5' WIDE INTENDED FOR PEDESTRIANS ONLY. THE INTENT OF THE ELEVATED BOARDWALK IS TO REPLACE THE AT GRADE 5 FOOT WIDE ASPHALT WALKWAY WHICH IS PRESENTLY INUNDATED WITH SEA WATER FOR EXTENDED PERIODS OF TIME THROUGHOUT THE YEAR AND DURING KING TIDE EVENTS.

THE PROPOSED ELEVATED BOARDWALK **MAINLY** FOLLOWS THE ALIGNMENT OF THE EXISTING PATHWAY. HOWEVER, TO MINIMIZE IMPACTS ON THE ADJACENT WETLAND AREAS AND REDUCE NEGATIVE IMPACTS ON THE MANGROVE HABITAT INCLUDING THE PRESERVATION OF EXISTING TREES, THE WALKWAY WAS SHIFTED BY THE EXISTING PARKING ON THE WEST AND BY THE ROCK ROAD CLOSE TO THE EAST END.

THE BOARDWALK WILL EXTEND FROM THE WESTERN END OF THE RED FISH PARKING AREA TO THE EASTERN END OF THE PARKING LOT LOCATED CLOSEST TO OLD CUTLER ROAD. A SLOPED CONCRETE ACCESS WALKWAY (NOT TO EXCEED 5%) SHALL BE PROVIDED AT BOTH ENDS OF THE BOARDWALK TO COMPLY WITH ADA COMPLIANT ACCESS. ADA ACCESSIBLE BENCHES SHALL BE PROVIDED AT THREE LOCATIONS ALONG THE BOARDWALK WHERE THE NATURAL CONDITIONS PERMIT A WIDER SECTION OF BOARDWALK. ALL EXISTING ADJACENT SIGNAGE WILL BE REMOVED DURING CONSTRUCTION AND REPLACED IN CLOSE PROXIMITY TO THEIR PRESENT LOCATIONS.

THE EXISTING ASPHALT WALKWAY WILL BE REMOVED IN IT'S ENTIRETY EXTENDING OUT TO THE GATE ENTRANCE AT OLD CUTLER ROAD. THE BOARDWALK SEGMENT WILL BE 4508 FEET LONG. THE SEGMENT OF TRAIL NOT INTENDED FOR A BOARDWALK WILL BE REPLACED WITH A NEW 5 FOOT WIDE, 557 FOOT LONG ASPHALT WALKWAY IN A SIMILAR ALIGNMENT TO THE EXISTING WALKWAY.



MDC013

100% CONSTRUCTION DOCUMENTS

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD. CORAL GABLES. FL 33146

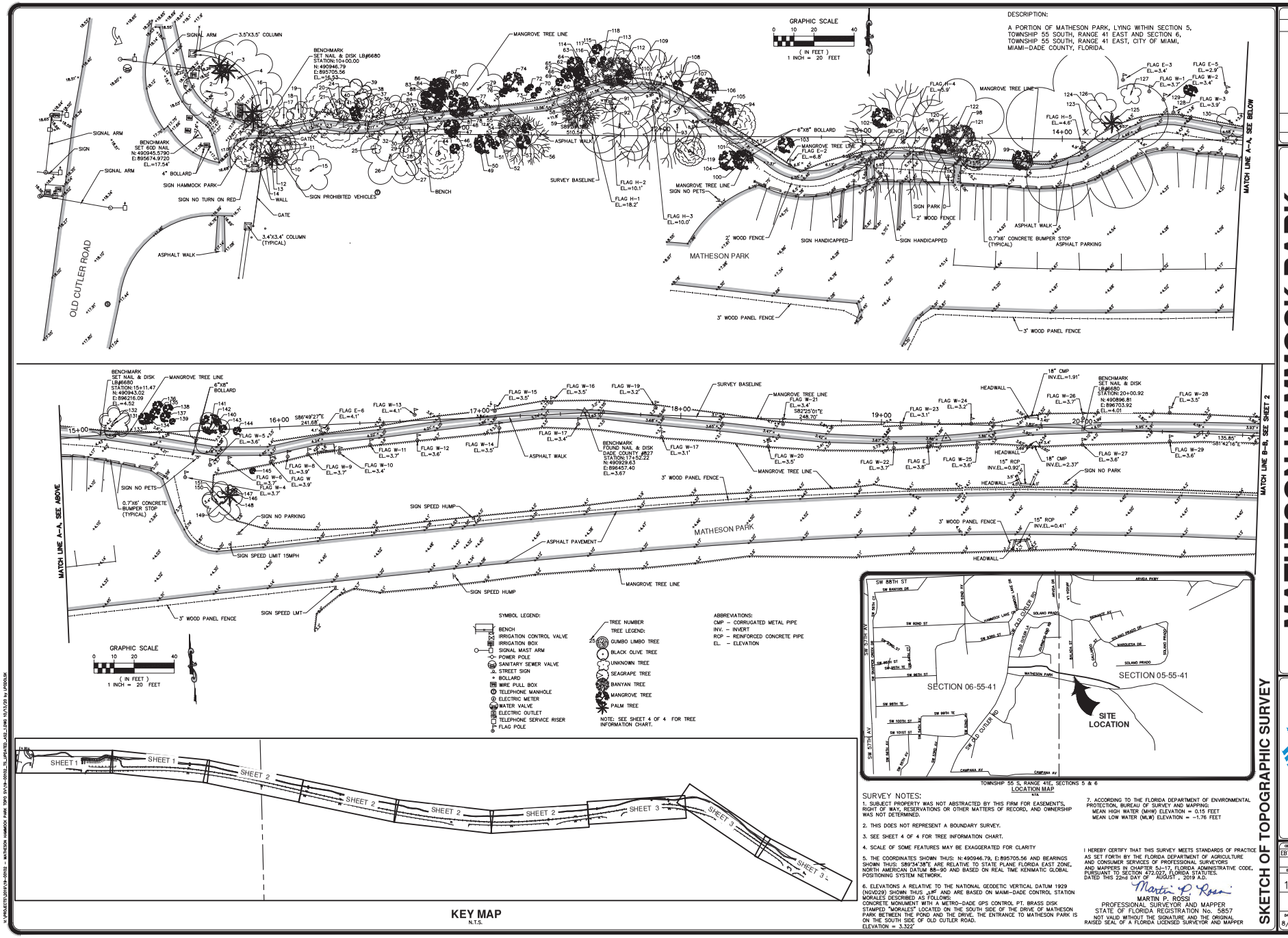
Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
SITE PLAN, ZONING ANALYSIS & STAGING AREAS

No	Revisions Description	Date

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHECK BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock SP SHEETS.dwg	
CONTRACT No: 999999-15-012	
SP-000	Sheet 1 of 1

XREF[1-A1P-ALL-MAP, Matheson [...]\ref\A1-ALL-MAP.dwg]
XREF[2-A1P-ALL-MAP, Matheson X SURVEY [...]\ref\A1-ALL-MAP-SURVEY.dwg]
XREF[3-A1P-ALL-MAP, Matheson X STRUCTURAL [...]\ref\A1-ALL-MAP-STRUCTURAL.dwg]
XREF[4-Site, Matheson [...]\ref\Matheson Hammock SP SHEETS.dwg]
XREF[5-Site, Matheson [...]\ref\Matheson Hammock SP SHEETS.dwg]
XREF[6-S-STRUCTURAL, Matheson [...]\ref\S-STRUCTURAL Matheson.dwg]
XREF[7-Survey, Matheson [...]\ref\SURVEY Matheson.dwg]
XREF[8-L-Shared (LAND) 2021, Matheson Hammock Park Mangrove Trail Improvements MDC PROD\Shared\Matheson Hammock SP SHEETS.dwg]



SURVEY NOTES:

1. SUBJECT PROPERTY WAS NOT ABSTRACTED BY THIS FIRM FOR EASEMENTS, RIGHT OF WAY, RESERVATIONS OR OTHER MATTERS OF RECORD, AND OWNERSHIP WAS NOT DETERMINED.
2. THIS DOES NOT REPRESENT A BOUNDARY SURVEY.
3. SEE SHEET 4 OF 4 FOR TREE INFORMATION CHART.
4. SCALE OF SOME FEATURES MAY BE EXAGGERATED FOR CLARITY
5. THE COORDINATES SHOWN THUS: N:490946.79, E:895705.56 AND BEARINGS SHOWN THUS: S89°34'38"E ARE RELATIVE TO STATE PLANE FLORIDA EAST ZONE, NORTH AMERICAN DATUM 88–90 AND BASED ON REAL TIME KENIMATIC GLOBAL POSITIONING SYSTEM NETWORK.
6. ELEVATIONS A RELATIVE TO THE NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD29) SHOWN THUS ,2.85' AND ARE BASED ON MAIMI–DADE CONTROL STATION MORALES DESCRIBED AS FOLLOWS: CONCRETE MONUMENT WITH A METRO–DADE GPS CONTROL PT. BRASS DISK STAMPED "MORALES" LOCATED ON THE SOUTH SIDE OF THE DRIVE OF MATHESON PARK BETWEEN THE POND AND THE DRIVE. THE ENTRANCE TO MATHESON PARK IS ON THE SOUTH SIDE OF OLD CUTLER ROAD. ELEVATION = 3.322'
7. ACCORDING TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF SURVEY AND MAPPING: MEAN HIGH WATER (MHW) ELEVATION = 0.15 FEET MEAN LOW WATER (MLW) ELEVATION = -1.76 FEET

I HEREBY CERTIFY THAT THIS SURVEY MEETS STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J–17, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.
DATED THIS 22nd DAY OF AUGUST, 2019 A.D.

Martin P. Rossi

MARTIN P. ROSSI
PROFESSIONAL SURVEYOR AND MAPPER
STATE OF FLORIDA REGISTRATION No. 5857
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

NO.	DATE	REVISIONS	BY
2	9/24/20	REVISED TO SHOW PRESS #	MR
1	5/4/20	REVISED TO SHOW ADDITIONAL INFORMATION	LP

MATHESON HAMMOCK PARK
(PEDESTRIAN TRAIL)
CITY OF MIAMI, MIAMI-DADE COUNTY, FLORIDA

SKETCH OF TOPOGRAPHIC SURVEY

MILLER LEGG
South Florida Office: 5747 N. Andrews Way
Fort Lauderdale, Florida 33309
954-486-7000 Fax: 954-938-8564
www.millerlegg.com

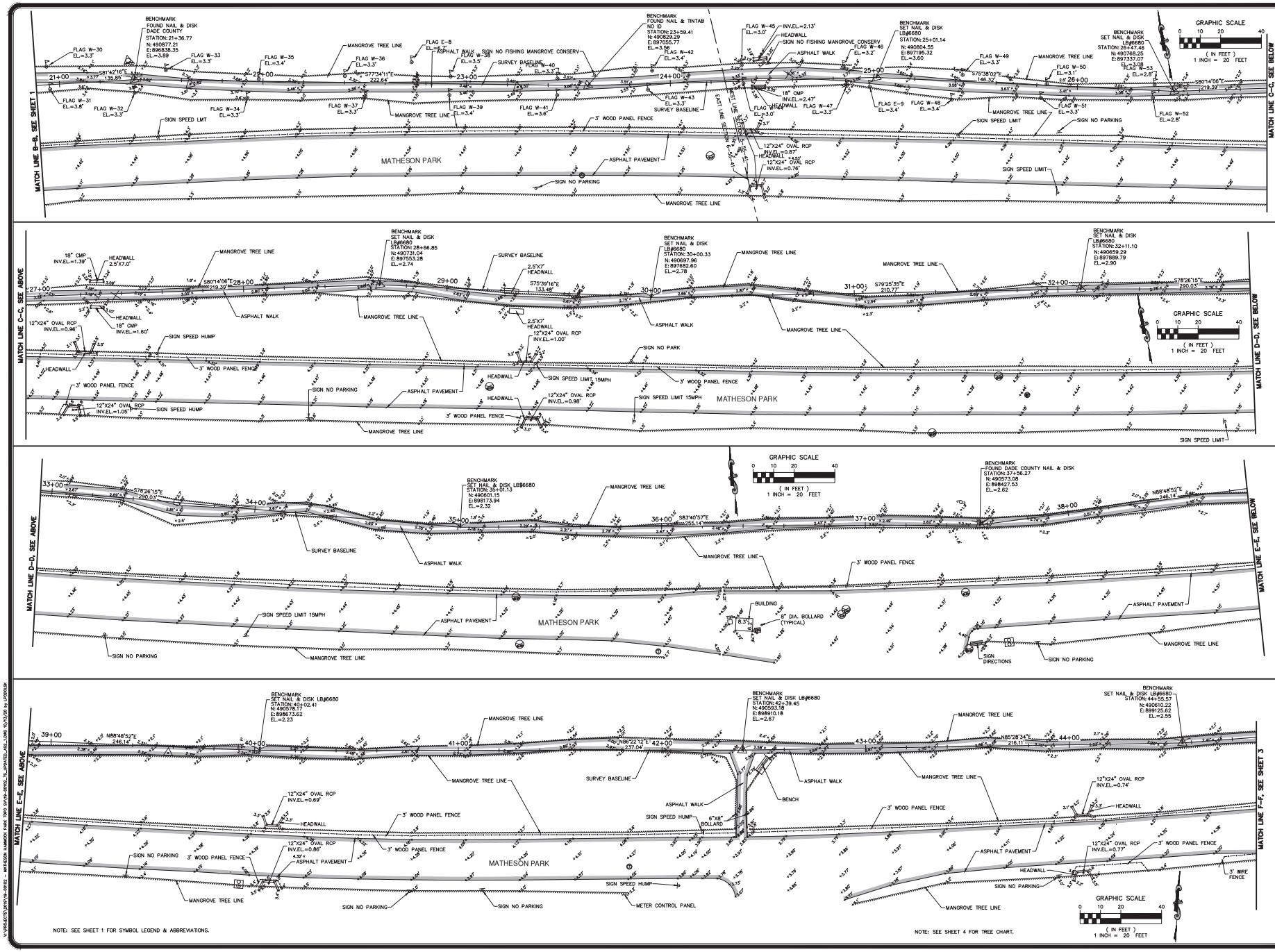
CERTIFICATES OF AUTHORIZATION: EB7318 LB6680 LC0337

DES.	DRN.	CHK.
	LP	MR

PROJECT / FILE NO. 19–00102
DRAWING NO. SH–1
DATE DRAWN 8/27/19
SHEET 1 OF 4

MDC014

W:\PROJECTS\2019\19-00102 – MATHESON HAMMOCK PARK TOPO SVY\19-00102_TS_UPDATED_ADD_LOAD 10/7/20 by LP\DGN\SK



MATHESON HAMMOCK PARK

FOR: CITY OF MIAMI, MIAMI-DADE COUNTY, FLORIDA

SKETCH OF TOPOGRAPHIC SURVEY

NO.	DATE	REVISIONS	BY
2	9/24/20	REVISED TO SHOW TREES & REVISED TO SHOW ADDITIONAL DETAILS	MR
1	1/4/20	ADDITIONAL DETAILS	LP

MILLER LEGG
South Florida Office: 5747 N. Andrews Way
Fort Lauderdale, Florida 33309
954-486-7000 Fax: 954-938-8564
www.millerlegg.com

CERTIFICATES OF AUTHORIZATION: EB7318 LB6680 LC0337

DES.	DRN.	CHK.
LP		MR

PROJECT / FILE NO.: 19–00102

DRAWING NO.: SH–2

DATE DRAWN: 8/29/19

SHEET 2 of 4

MDC015

W:\PROJECTS\2019\19-00102 - MATHESON HAMMOCK PARK TOPO SURVEY\SHEETS\19-00102_TS_UPDATED_ASE_LONG TO A720.dgn 8/29/2019 by LPOOLOK

MATHESON HAMMOCK PARK

FOR: CITY OF MIAMI, MIAMI-DADE COUNTY, FLORIDA

MILLER LEGG
South Florida Office: 5747 N. Andrews Way
Ft. Lauderdale, FL 33309-2564
954-486-7000 - Fax: 954-486-8964
www.millerlegg.com

CERTIFICATE OF AUTHORIZATION: EB7318 LB6680 L00337			
DES.	LP	MR	
PROJECT MGR.	DRN.	CHK.	
19-00102			
DRAWING NO.	SH-3		
DATE	8/29/19	SHEET NO.	3 OF 4

NO.	DATE	REVISIONS	BY
1	5/14/20	REVISED TO SHOW TREES & UPDATED LEGEND	LP
2	7/24/20	ADDED ADDITIONAL TOPOGRAPHIC INFORMATION	MR

SKETCH OF TOPOGRAPHIC SURVEY

SKETCH OF TOPOGRAPHIC SURVEY

MATHESON HAMMOCK PARK

FOR: CITY OF MIAMI, MIAMI-DADE COUNTY, FLORIDA

MILLER LEGG
South Florida Office: 5767 N. Andrews Way
Ft. Lauderdale, FL 33309 - 2330/2564
954-436-7000 - Fax: 954-436-8664
www.millerlegg.com

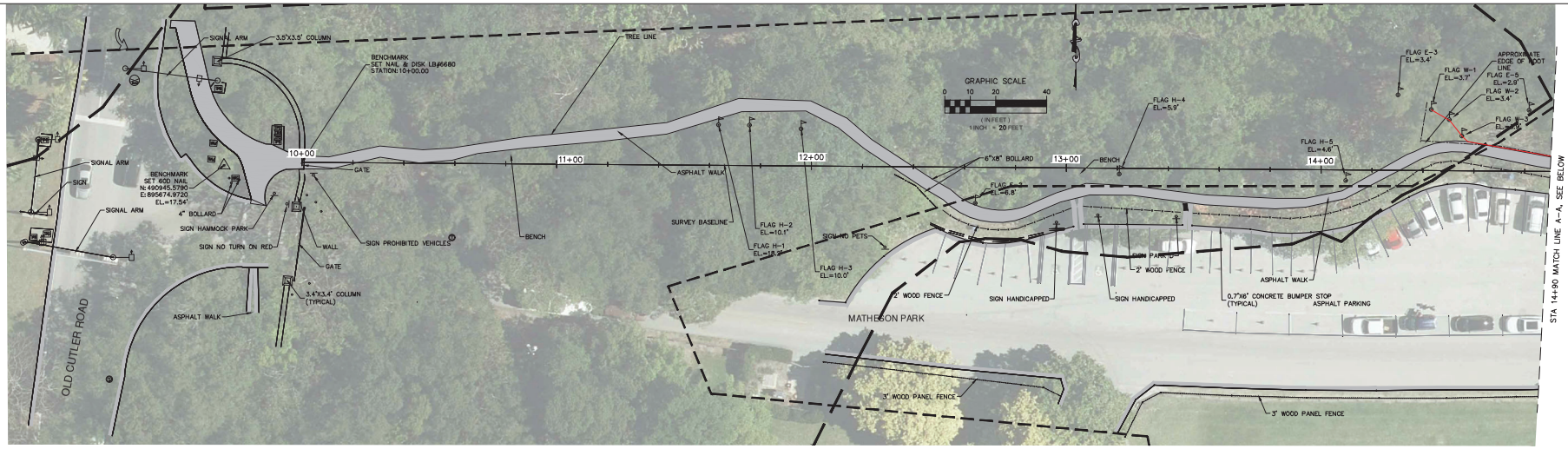
CERTIFICATE OF AUTHORIZATION	
EB7318, LB6680, LC0337	
DES. LP	CHK. MR
PROJECT FILE NO. 19-00102	
DWG. NO. SH-4	SHEET NO. 4 OF 4
DATE 8/29/19	

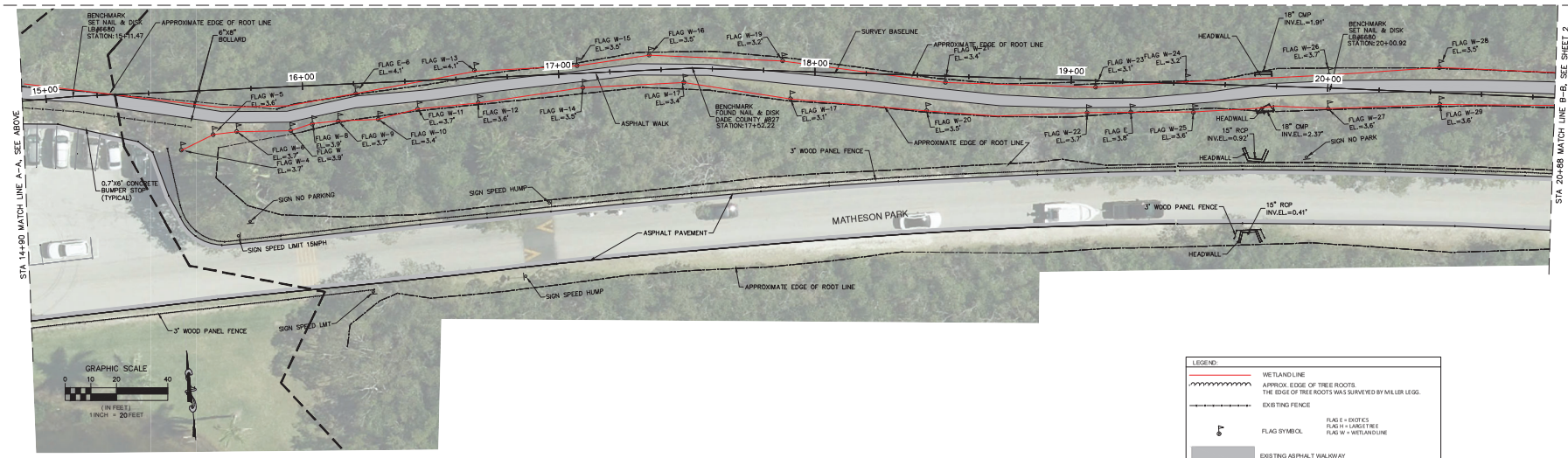
NO.	DATE	REVISIONS	BY	APP.
1	5/24/20	REVISED TO SHOW TREES & TOPOGRAPHIC INFORMATION	LP	MR
2	9/4/20	REVISED TO SHOW ADDITIONAL VEGETATION	LP	MR

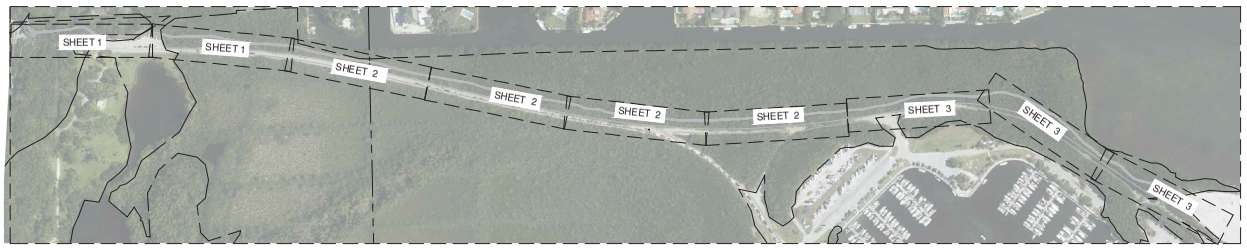
V:\PROJECTS\2019\19-00102 - MATHESON HAMMOCK PARK TOPO SV\19-00102_TS_UPDATED_ASZ_LP45 10/13/20 by LPOOLUK

TREE NUMBER	TREE NAME	PALM HEIGHT IN FEET (NOTES)	TRUNK DIAMETER IN INCHES	CANOPY DIAMETER IN FEET
1	PALM TREE	20		
2	PALM TREE	30		
3	PALM TREE	15		
4	OAK TREE		20	40
5	PALM TREE		14	25
6	PALM TREE	15		
7	PALM TREE	30		
8	CLUMBO LIMBO TREE		18	25
9	CLUMBO LIMBO TREE		20	30
10	UNKNOWN TREE		6	10
11	UNKNOWN TREE		10	15
12	PALM TREE		6	10
13	PALM TREE	15		
14	UNKNOWN TREE		6	8
15	UNKNOWN TREE		12	20
16	UNKNOWN TREE		5	10
17	UNKNOWN TREE		5	10
18	UNKNOWN TREE		6	8
19	UNKNOWN TREE		10	15
20	CLUMBO LIMBO TREE		14	35
21	UNKNOWN TREE		6	8
22	UNKNOWN TREE		3	5
23	UNKNOWN TREE		3	5
24	UNKNOWN TREE		6	8
25	UNKNOWN TREE		4	10
26	UNKNOWN TREE		12	15
27	UNKNOWN TREE		4	5
28	UNKNOWN TREE		4	5
29	UNKNOWN TREE		4	5
30	UNKNOWN TREE		4	5
31	UNKNOWN TREE		6	10
32	UNKNOWN TREE		10	25
33	UNKNOWN TREE		8	15
34	UNKNOWN TREE		8	15
35	UNKNOWN TREE		2	5
36	UNKNOWN TREE		2	5
37	UNKNOWN TREE		6	10
38	UNKNOWN TREE		6	15
39	UNKNOWN TREE		6	15
40	UNKNOWN TREE		2	5
41	UNKNOWN TREE		3	5
42	MANGROVE TREE		3	5
43	MANGROVE TREE		3	5
44	CLUMBO LIMBO TREE		14	25
45	MANGROVE TREE		3	5
46	MANGROVE TREE		3	5
47	MANGROVE TREE		2	3
48	MANGROVE TREE		6	8
49	MANGROVE TREE		6	15
50	MANGROVE TREE		6	10
51	MANGROVE TREE		2	4
52	MANGROVE TREE		3	5
53	BANYAN TREE		3	4
54	BANYAN TREE		6	12
55	MANGROVE TREE		3	5
56	MANGROVE TREE		12	25
57	MANGROVE TREE		4	7
58	BANYAN TREE		12	20
59	BANYAN TREE		8	15
60	MANGROVE TREE		4	8
61	MANGROVE TREE		3	5
62	MANGROVE TREE		3	5
63	MANGROVE TREE		3	5
64	MANGROVE TREE		6	8
65	MANGROVE TREE		2	4
66	MANGROVE TREE		2	4
67	MANGROVE TREE		3	5
68	UNKNOWN TREE		7	15
69	MANGROVE TREE		3	4
70	MANGROVE TREE		2	3
71	MANGROVE TREE		2	3
72	MANGROVE TREE		2	3
73	MANGROVE TREE		2	3
74	MANGROVE TREE		6	10
75	MANGROVE TREE		4	7
76	MANGROVE TREE		4	7
77	MANGROVE TREE		6	10
78	MANGROVE TREE		6	10
79	UNKNOWN TREE		10	25
80	UNKNOWN TREE		18	25
81	UNKNOWN TREE		18	25
82	MANGROVE TREE		3	5
83	MANGROVE TREE		3	5
84	MANGROVE TREE		3	5
85	MANGROVE TREE		3	5
86	MANGROVE TREE		6	8
87	MANGROVE TREE		6	8
88	MANGROVE TREE		6	8
89	MANGROVE TREE		3	5
90	MANGROVE TREE		3	5
91	UNKNOWN TREE		30	45
92	UNKNOWN TREE		20	35
93	MANGROVE TREE		18	30
94	CLUMBO LIMBO TREE		18	30
95	BANYAN TREE		48	60
96	CLUMBO LIMBO TREE		6	15
97	CLUMBO LIMBO TREE		8	15
98	MANGROVE TREE		10	15
99	MANGROVE TREE		6	10

TREE NUMBER	TREE NAME	PALM HEIGHT IN FEET (NOTES)	TRUNK DIAMETER IN INCHES	CANOPY DIAMETER IN FEET
100	MANGROVE TREE		8	10
101	MANGROVE TREE		4	5
102	MANGROVE TREE		8	10
103	MANGROVE TREE		6	8
104	MANGROVE TREE		8	10
105	MANGROVE TREE		8	10
106	MANGROVE TREE		6	12
107	UNKNOWN TREE		8	20
108	UNKNOWN TREE		8	20
109	UNKNOWN TREE		28	25
110	UNKNOWN TREE		2	4
111	MANGROVE TREE		2	4
112	MANGROVE TREE		30	15
113	CLUMBO LIMBO TREE		28	25
114	UNKNOWN TREE		20	10
115	MANGROVE TREE		6	8
116	MANGROVE TREE		2	3
117	MANGROVE TREE		2	3
118	MANGROVE TREE		2	3
119	CLUMBO LIMBO TREE		20	15
120	UNKNOWN TREE		6	10
121	MANGROVE TREE		6	10
122	UNKNOWN TREE		30	45
123	UNKNOWN TREE		72	80
124	UNKNOWN TREE		8	15
125	UNKNOWN TREE	15		
126	UNKNOWN TREE		8	15
127	UNKNOWN TREE		8	10
128	MANGROVE TREE		3	5
129	MANGROVE TREE		3	5
130	UNKNOWN TREE		20	15
131	UNKNOWN TREE		8	15
132	MANGROVE TREE		8	15
133	MANGROVE TREE		4	6
134	MANGROVE TREE		3	5
135	MANGROVE TREE		3	5
136	MANGROVE TREE		3	5
137	MANGROVE TREE		3	5
138	MANGROVE TREE		3	5
139	MANGROVE TREE		2	3
140	UNKNOWN TREE		28	20
141	MANGROVE TREE		8	10
142	MANGROVE TREE		4	4
143	MANGROVE TREE		4	4
144	MANGROVE TREE		3	4
145	MANGROVE TREE		3	4
146	UNKNOWN TREE		6	5
147	UNKNOWN TREE		4	3
148	PALM TREE	40		
149	UNKNOWN TREE		30	20
150	UNKNOWN TREE		50	35
151	UNKNOWN TREE		4	10
152	UNKNOWN TREE		36	30
153	UNKNOWN TREE		36	30







KEY MAP
N.T.S.

LEGEND:
- WETLAND LINE
- APPROX. EDGE OF TREE ROOTS. THE EDGE OF TREE ROOTS WAS SURVEYED BY MILLER LEGG.
- EXISTING FENCE
- FLAG SYMBOL — FLAG E = EXOTICS; FLAG H = LANDETTIE; FLAG W = WETLAND LINE
- EXISTING ASPHALT WALKWAY

NOTES:
1. SURVEY CONDUCTED BY MILLER LEGG, INC DATED 8/27/2019.
2. CUMMINS CEDERBERG, INC. PERFORMED THE WETLAND DELINEATION ON APRIL 6, 2020.
3. REFER TO ENVIRONMENTAL REPORT PREPARED BY CUMMINS CEDERBERG FOR FURTHER DETAILS REGARDING THE FLAGS, WETLAND LINE, AND VEGETATION SPECIES DOCUMENTED ON SITE.
4. MHWL ELEVATION IS +0.15 FT NAVD (+1.7 NGVD) AS APPROVED BY FDEP ON 7/21/20

100% CONSTRUCTION DOCUMENTS

MDC018

KIRK J. OLNEY
LANDSCAPE ARCHITECT
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 - TEL: 305-444-3000

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
EXISTING WETLAND PLAN

No	Date	Description
Revisions		

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHECKED BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

EC-001
Sheet
1 of #

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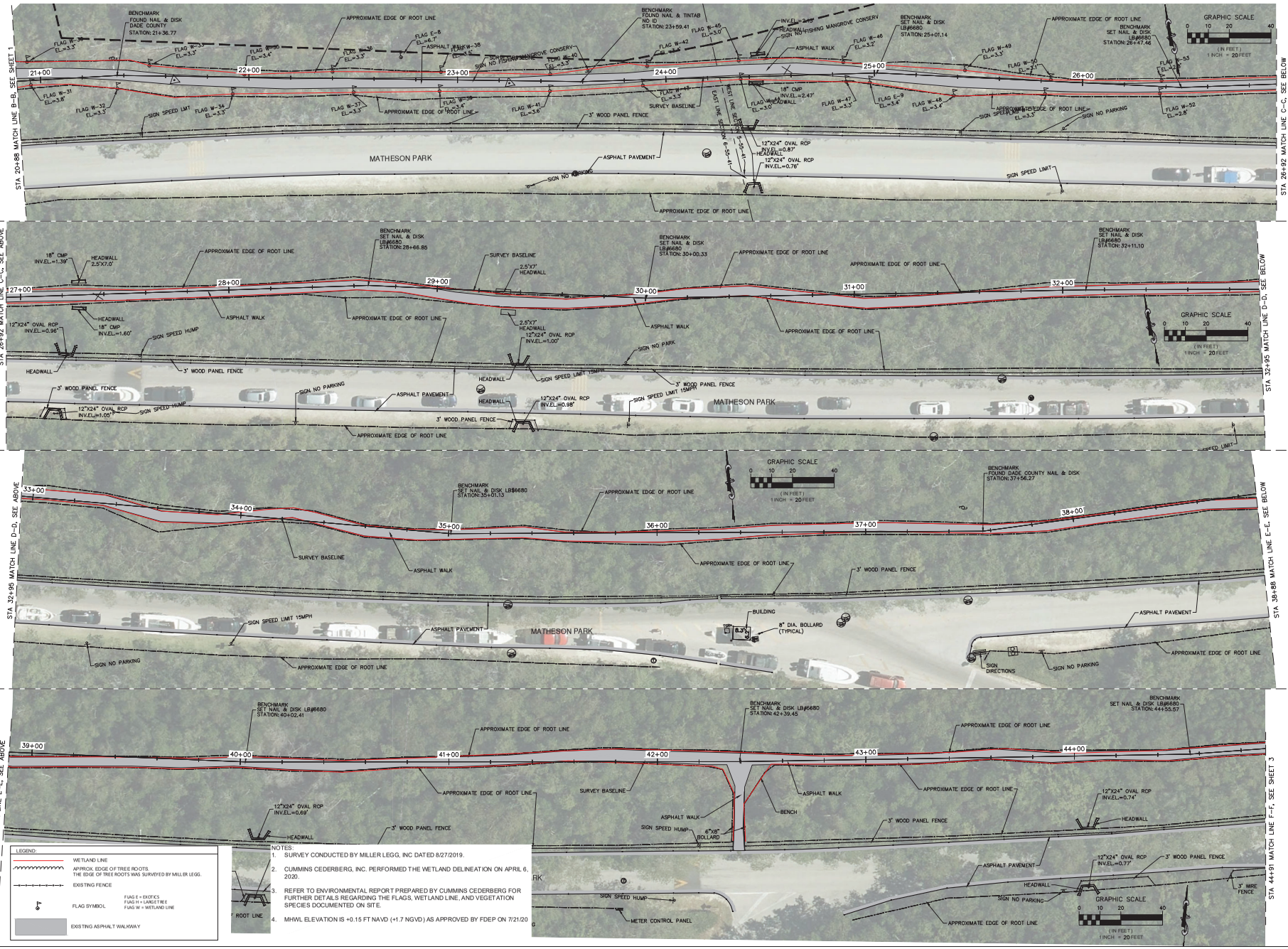


MDC019

100% CONSTRUCTION DOCUMENTS

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL 33156

Sheet Title:
EXISTING WETLAND PLAN

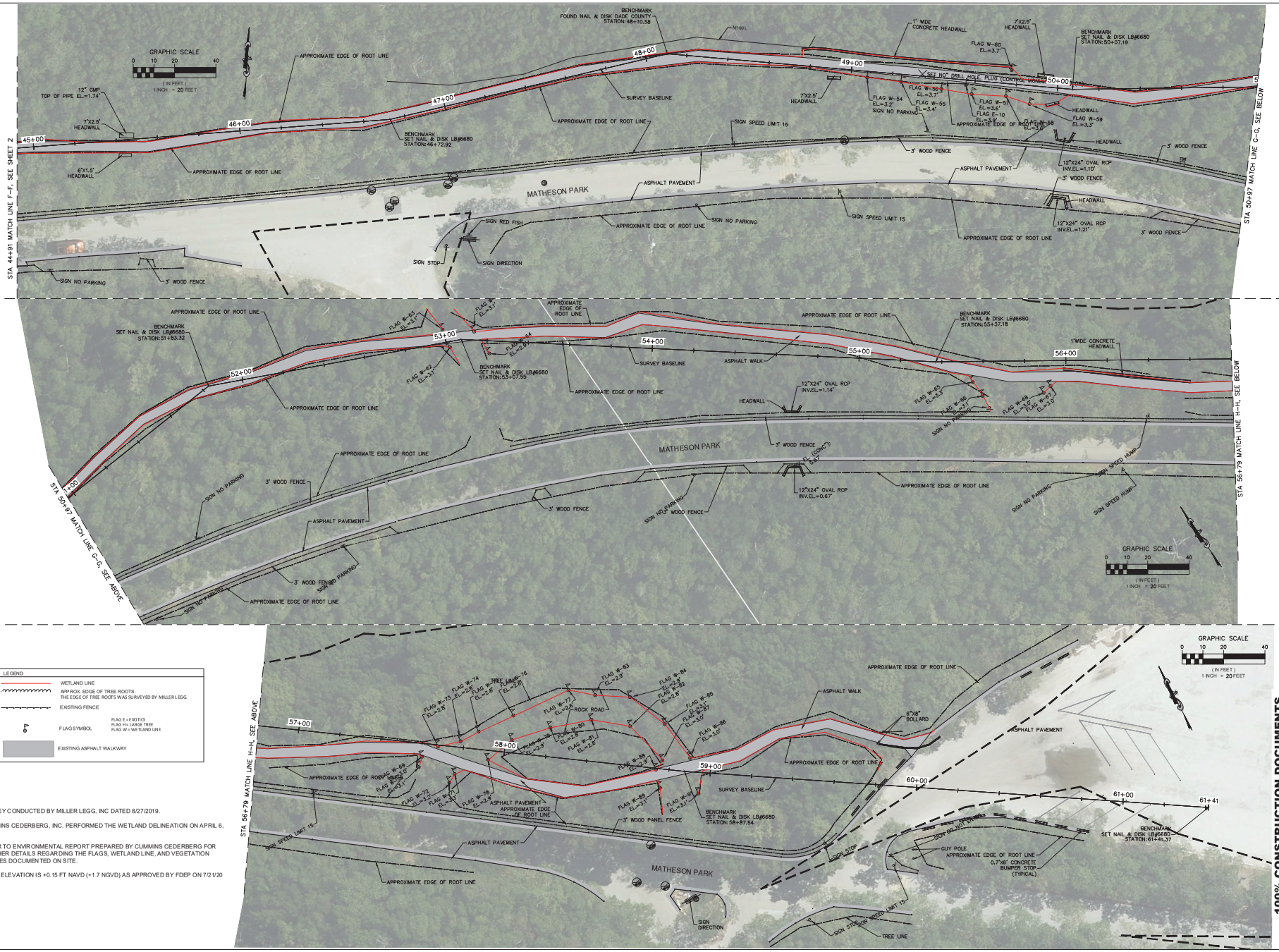
Revisions			
No	Date	Description	

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHECKED BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

EC-002

Sheet
1 of #



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MDC020

100% CONSTRUCTION DOCUMENTS

KIRK J. OLNEY
LANDSCAPE ARCHITECT
FLA REGISTRATION NO. 6666666
CORAL GABLES, FL 33146 - TEL: 305.644.4080

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL 33156

Sheet Title:
EXISTING WETLAND PLAN

No	Description	Date
Revisions		

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHKD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

EC-003
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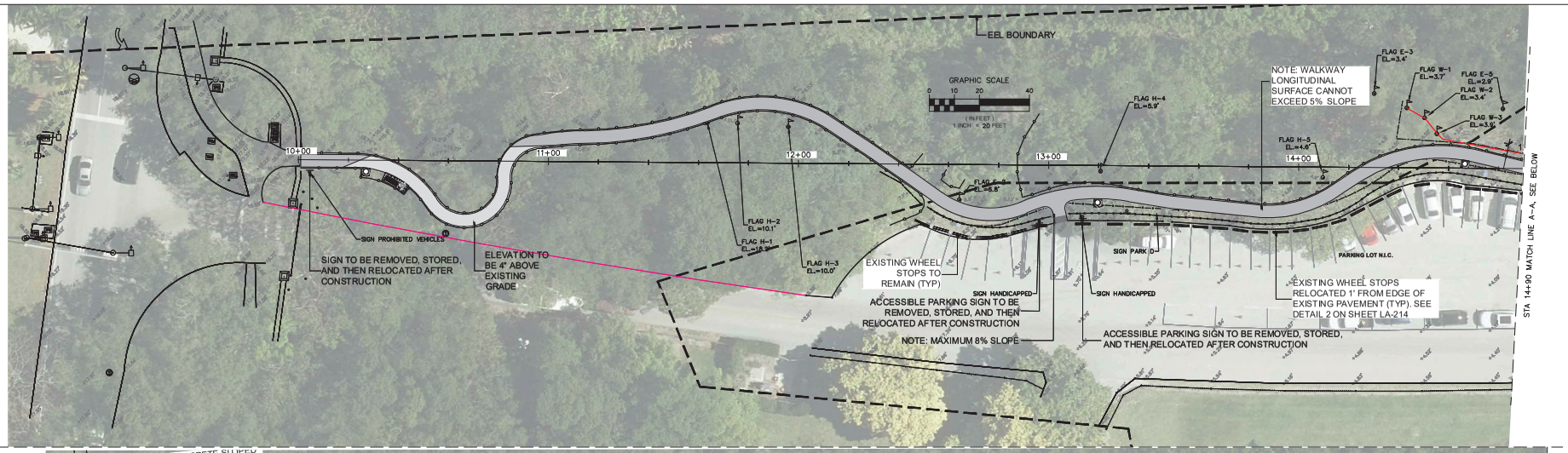
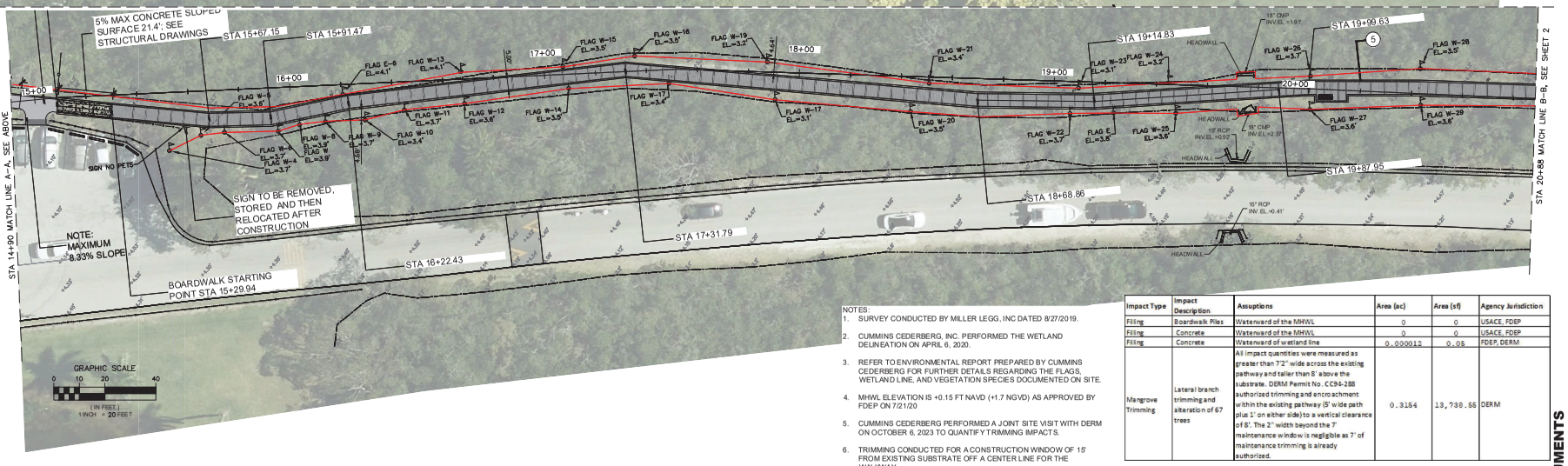
1 of #





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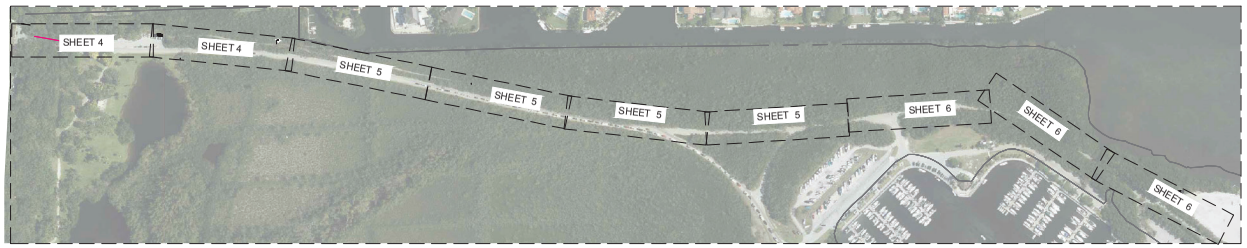
6. TRIMMING CONDUCTED FOR A CONSTRUCTION WINDOW OF 15' FROM EXISTING SUBSTRATE OFF A CENTER LINE FOR THE WALKWAY.

Impact Type	Impact Description	Assuptions	Area (ac)	Area (sf)	Agency Jurisdiction
Filling	Boardwalk Piles	Waterward of the MHWL	0	0	USACE, FDEP
Filling	Concrete	Waterward of the MHWL	0	0	USACE, FDEP
Filling	Concrete	Waterward of wetland line	0.000012	0.05	FDEP, DERM
Mangrove Trimming	Lateral branch trimming and alteration of 67 trees	All impact quantities were measured as greater than 7'2" wide across the existing pathway and taller than 8' above the substrate. DERM Permit No. CC94-288 authorized trimming and encroachment within the existing pathway (5' wide path plus 1' on either side) to a vertical clearance of 8'. The 2" width beyond the 7' maintenance window is negligible as 7' of maintenance trimming is already authorized.	0.3154	13,738.58	DERM



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- PROPOSED BOARDWALK
- PERVIOUS CONCRETE
- SPOT ELEVATION
- PILE

100% CONSTRUCTION DOCUMENTS

MDC021

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES
KIRK J. OLNEY
LANDSCAPE ARCHITECT
PARKS SOUTH BUREAU
KIRKJ.OLNEY@MIAMIDADE.GOV
CORAL GABLES, FL 33146 | TEL: 305-663-3000

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL 33156

Sheet Title:
WETLAND DELINEATION & BOARDWALK PLAN

No	Date	Description
Revisions		

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHECKED BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

EC-004
Sheet
1 of #

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MDC022

STA 38+88 MATCH LINE E–E, SEE ABOVE

STA 32+95 MATCH LINE D–D, SEE ABOVE

STA 26+92 MATCH LINE C–C, SEE ABOVE

STA 20+88 MATCH LINE B–B, SEE SHEET 1

STA 44+91 MATCH LINE F–F, SEE SHEET 3

STA 38+88 MATCH LINE E–E, SEE BELOW

STA 32+95 MATCH LINE D–D, SEE BELOW

STA 26+92 MATCH LINE C–C, SEE BELOW

EEL BOUNDARY

CONTRACTOR TO VERIFY CULVERTS LOCATION

CONTRACTOR TO VERIFY CULVERTS LOCATION

SIGN TO BE REMOVED,STORED AND THEN RELOCATED AFTER CONSTRUCTION

SIGN TO BE REMOVED,STORED AND THEN RELOCATED AFTER CONSTRUCTION

GUARD RAIL TO BE NOTCHED AROUND EXISTING BLACK MANGROVE APPROXIMATE LOCATION. COORDINATE WITH ENGINEERS, ARCHITECTS & EEL

GUARD RAIL TO BE NOTCHED AROUND EXISTING BLACK MANGROVE APPROXIMATE LOCATION. COORDINATE WITH ENGINEERS, ARCHITECTS & EEL

STEPS CONCRETE LANDING

GRAPHIC SCALE 0 10 20 40 (IN FEET) 1 INCH = 20 FEET

100% CONSTRUCTION DOCUMENTS

CONTRACT No. 999999-15-012	EC-005	Sheet #	1 of #

PLOT DATE: AS SHOWN	PLOT TIME:	USER:	
DRAWN BY: LMK, LH	CHECKED BY: KJO	DESIGNED BY: KIRK J. OLNEY	DATE: 12/11/2023
PROJECT MANAGER: KIRK J. OLNEY			
FILE NAME: ARCH D			

Revisions		
No	Date	Description

Sheet Title: WETLAND DELINEATION & BOARDWALK PLAN

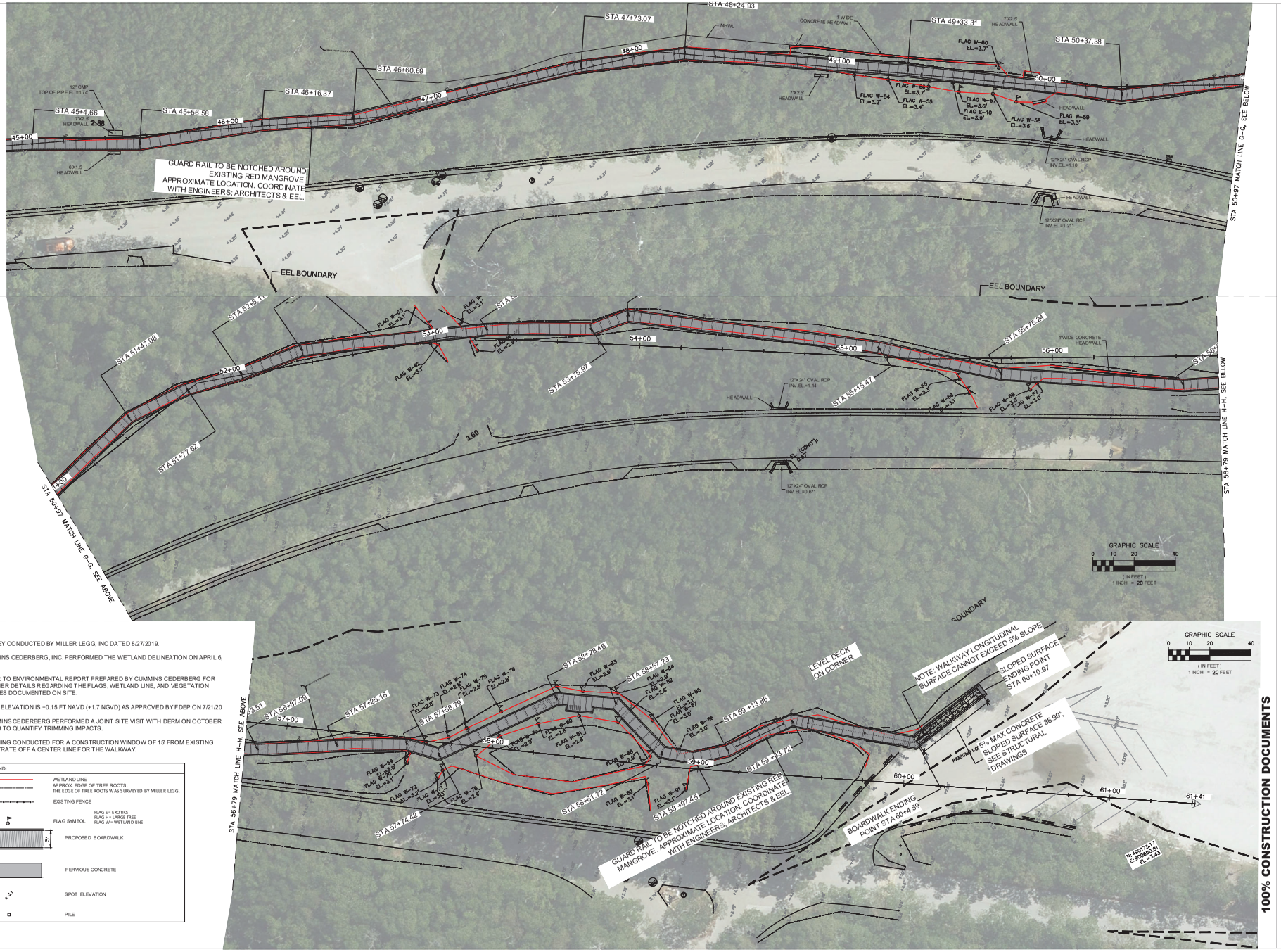
Project Title:

MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD. CORAL GABLES. FL 33146

MIAMI-DADE PARKS

KIRK J. OLNEY
LANDSCAPE ARCHITECT
FLORIDA LICENSE No. LA 0001705
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 - TEL: 305-859-2050



NOTES:

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LEGEND:

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- PROPOSED BOARDWALK
- PERVIOUS CONCRETE
- SPOT ELEVATION
- PILE

MDC023

100% CONSTRUCTION DOCUMENTS

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
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Sheet Title:
WETLAND DELINEATION & BOARDWALK PLAN

No	Date	Description
Revisions		

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHKD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

EC-006

Sheet
1 of #

PAVEMENT DEMOLITION NOTES:

1. THE CONTRACTOR WILL BE RESPONSIBLE FOR ACQUIRING A VALID NPDES PERMIT, UNLESS SUCH PERMIT IS DETERMINED TO BE NON-APPLICABLE BY THE REGULATORY AGENCY HAVING PROPER JURISDICTION REGARDING THIS MATTER.
2. DEMOLITION WORK TO BE PERFORMED IN ACCORDANCE WITH THE MINIMUM STANDARDS OF ALL REGULATORY AGENCIES HAVING JURISDICTION. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE CITY, COUNTY AND ALL OTHER LOCAL AND NATIONAL CODES WHERE APPLICABLE.
3. SPECIFIC DEMOLITION NOTES/ITEMS ARE NOT TO BE CONSIDERED ALL INCLUSIVE OR COMPLETE IN THEMSELVES. ADDITIONAL DEMOLITION MIGHT REASONABLY BE REQUIRED FOR SITE PREPARATION.
4. DEMOLITION WORK TO BE CLOSELY COORDINATED WITH PROPOSED WORK TO MINIMIZE ANY POSSIBLE DELAYS AND/OR INCONVENIENCES.
5. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK TO MINIMIZE INCONVENIENCE/DISTURBANCE TO ADJACENT OCCUPIED AREAS. DEMOLITION WORK SHALL BE COMPLETED IN AN ORDERLY AND CAREFUL MANNER AS REQUIRED TO ACCOMMODATE PROPOSED WORK AND PREVENT DAMAGE AND EXCESSIVE NOISE /VIBRATION SO AS NOT TO DISTURB ADJACENT OCCUPIED AREAS.ANY OPERATION THAT MAY CAUSE DISTURBANCE SHALL BE COORDINATED WITH THE COUNTY. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING THE DEMOLITION WORK WITH THE CITY / COUNTY PRIOR TO START OF WORK TO MINIMIZE THE DISRUPTION OF SERVICES AND PROVIDE CONTINUED ACCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT NO UTILITY SERVICE IS INTERRUPTED AT ANY TIME TO ANY ADJACENT OCCUPIED AREAS.
6. ALL WASTE MATERIAL/DEBRIS TO BE DISPOSED OF BY CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY REPORT ANY HAZARDOUS OR TOXIC MATERIALS DISCOVERED DURING DEMOLITION WORK TO THE ENGINEER, OWNER AND AUTHORITIES HAVING JURISDICTION.
7. CONTRACTOR IS RESPONSIBLE FOR CLEARING/GRUBBING WITHIN THE PROJECT LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR CLEARING ALL EXOTIC VEGETATION SPECIES NORTH OF THE ENTRY DRIVE, FROM OLD CUTLER ROAD TO THE RED FISH PARKING LOT. STUMP REMOVAL OF LARGE EXOTIC TREES IS NOT PERMITTED BUT STUMPS SHALL BE TREATED WITH CHEMICALS APPROVED BY DERM/EEL/NFC. TREE REMOVAL WITHIN PROJECT LIMITS IS NOT ANTICIPATED AND IS PROHIBITED. CONTRACTOR IS RESPONSIBLE FOR PROVIDING REQUIRED ROOT PRUNING AND PROTECTION MEASURES PER THE TREE DISPOSITION AND LANDSCAPE PLANS. BURNING OF PLANTS OR FIRES ARE STRICTLY PROHIBITED.
8. CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WHEN REMOVING EXIST. TREES IN THE VICINITY OF EXIST. UTILITIES TO REMAIN.
9. CONTRACTOR IS RESPONSIBLE FOR PROVIDING MAINTENANCE OF TRAFFIC THROUGHOUT CONSTRUCTION. THE MOT SHALL BE PERFORMED IN ACCORDANCE TO THE MUTCD AND FDOT STANDARDS AND SHALL BE APPROVED BY THE CITY, THE ENGINEER AND ANY OTHER INTERESTED PARTY PRIOR TO STARTING CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL MAINTAIN CONTINUOUS SAFE AND ADEQUATE PEDESTRIAN AND VEHICULAR ACCESS THROUGHOUT CONSTRUCTION OPERATIONS. CONTRACTOR IS REQUIRED TO PHASE DEMOLITION OF EXIST. SIDEWALKS TO MAINTAIN PROPER ACCESS TO SURROUNDING BUILDINGS.
10. CONTRACTOR SHALL COORDINATE WITH CITY / COUNTY ON WHICH SPECIFIC EXISTING ITEMS THE CITY WISHES TO HAVE SAFEGUARDE AS NOTED ON LANDSCAPE PLANS
11. THIS WORK CONSISTS OF FULL DEPTH REMOVAL OF EXISTING RIGID PORTLAND CEMENT CONCRETE PAVEMENT ALONG EXISTING TRAIL, SIDEWALK, SLOPE PAVEMENT, DITCH PAVEMENT, CURB, AND CURB AND GUTTER, WHERE SHOWN IN THE PLANS OR ORDERED BY THE ENGINEER TO BE REMOVED OR WHERE REQUIRED BECAUSE OF THE CONSTRUCTION OPERATIONS
12. CONTRACTOR SHALL SAW CUT THE EXISTING RIGID PAVEMENT TO THE FULL DEPTH AT THE LIMITS OF THE AREA DESIGNATED BY THE ENGINEER USING A DIAMOND SAW BLADE. WHERE THERE IS AN EXISTING ASPHALT CONCRETE OVERLAY ON TOP OF THE CONCRETE PAVEMENT TO BE REMOVED, THE CONTRACTOR MAY MAKE EITHER A FULL DEPTH SAW CUT THROUGH THE ASPHALT CONCRETE OVERLAY AND THE CONCRETE PAVEMENT, OR MAKE AN OFFSET SAW CUT THROUGH THE ASPHALT CONCRETE OVERLAY. IF MAKING AN OFFSET SAW CUT THROUGH THE ASPHALT CONCRETE OVERLAY, REMOVE THE OVERLAY AS NECESSARY TO PROVIDE CLEARANCE FOR THE FULL DEPTH SAW CUT THROUGH THE CONCRETE PAVEMENT. THE CONTRACTOR MAY ELECT TO MAKE ADDITIONAL CUTS TO FACILITATE THE REMOVAL OF THE PAVEMENT.
13. REMOVE PAVEMENT IN THE REPAIR AREA BY THE LIFT-OUT METHOD WITHOUT DAMAGING OR UNDERMINING THE REMAINING PAVEMENT. AFTER THE REPAIR AREA IS ISOLATED BY FULL DEPTH SAW CUTS, DRILL HOLES THROUGH THE DETERIORATED SLAB, AND INSTALL LIFT PINS. VERTICALLY LIFT THE PAVEMENT OUT OF THE REPAIR AREA. REMOVE LOOSE DEBRIS LEFT BEHIND AFTER LIFT-OUT USING HAND METHODS. DISPOSE OF REMOVED PAVEMENT ACCORDING TO COUNTY REQUIREMENT.
14. DO NOT BREAK THE PAVEMENT AND CLEAN OUT THE MATERIAL USING A BACKHOE UNLESS THE ENGINEER DETERMINES THAT THE LIFT-OUT METHOD IS NOT FEASIBLE DUE TO DETERIORATED PAVEMENT.
15. THE CONTRACTOR SHALL PROTECT FROM DAMAGE BY CONSTRUCTION OPERATIONS, ALL PAVEMENTS, HEADWALLS, PIPES AND OTHER APPURTENANCES INCLUDING ALL BASE COURSES AND SURFACE COURSES, WITHIN THE WORK AREA. ANY BASE COURSE OR SURFACE COURSE BEYOND THOSE LIMITS, DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION, SHALL BE RESTORED IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THESE SPECIFICATIONS, TO THE SATISFACTION OF THE DEPARTMENT, AND TO THE SATISFACTION OF THE GOVERNING AUTHORITY HAVING JURISDICTION OVER THE WORK AREA.
16. INFORMATION REGARDING THE THICKNESS OF THE EXISTING ASPHALT IS NOT AVAILABLE. CONTRACTOR TO FIELD VERIFY EXISTING THICKNESS AND PROVIDE FOR COMPLETE REMOVAL.

LEGEND

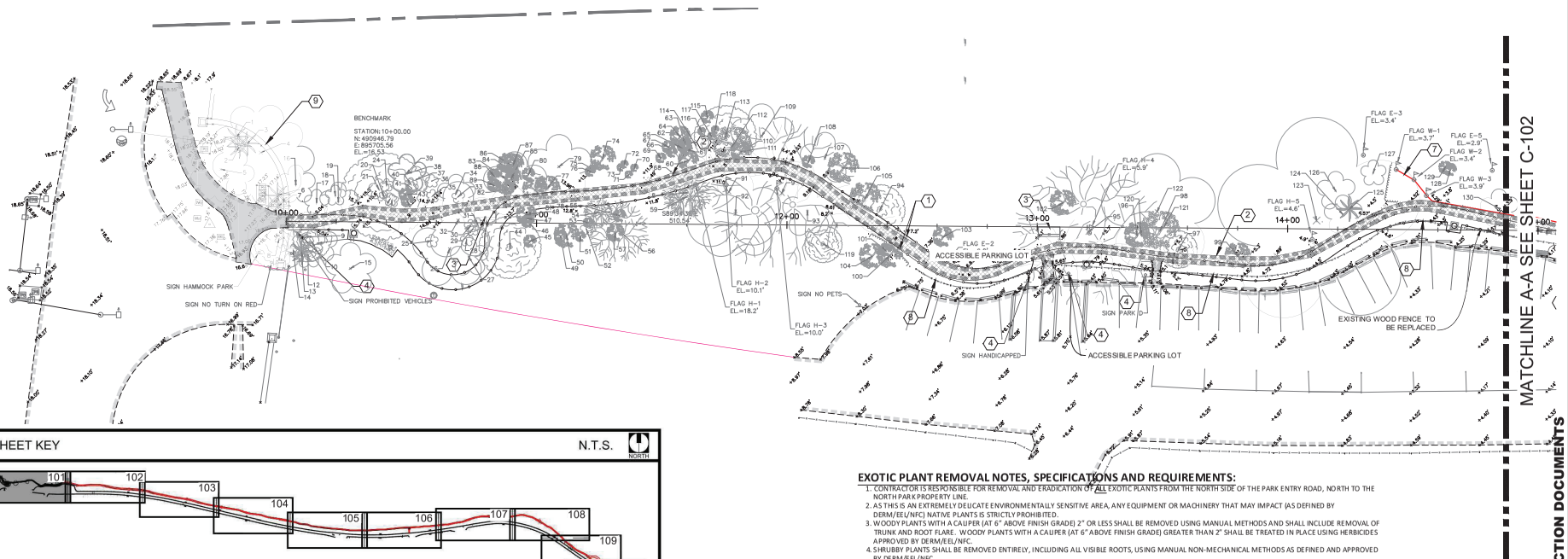
- EXIST ASPHALT TO BE REMOVED
- EXIST PAVEMENT/COMPACT ROCK TO BE REMOVED/SCRAPPED UP TO MUCKY SOIL SUITABLE FOR MANGROVE GROWTH (LESS THAN 1')
- PROPERTY LINE / ROW
- SAW CUT LINE
- EXIST EDGE OF ASPHALT
- EDGE OF VEGETATION
- EXIST WIRE FENCE
- EXIST HEADWALL
- WETLAND LINE
- EXISTING SPOT ELEVATION
- ITEM TO BE REMOVED

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
2. WORK TO BE DONE BY IN ACCORDANCE WITH CITY OF CORAL GABLES, MIAMI-DADE COUNTY, AND FDEP REQUIREMENTS.
3. STANDARD INFORMATION BASED ON TOPOGRAPHIC SURVEY PROVIDED BY CLIENT.

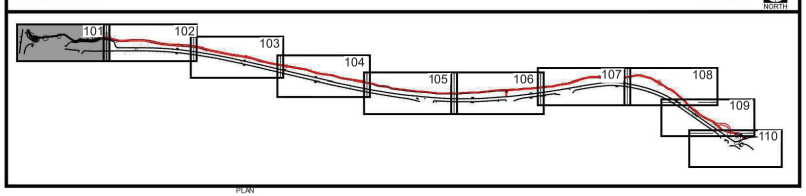
KEY NOTES - CIVIL / SITE

1. EXIST BOLLARD TO BE REMOVED.
2. EXISTING ASPHALT TO BE REMOVED. EXISTING BASE TO BE LEFT IN PLACE.
3. EXISTING BENCH TO BE REMOVED.
4. EXISTING SIGN TO BE REMOVED, STORED AND THEN RELOCATED AFTER CONSTRUCTION.
5. CONCRETE CURB TO BE REMOVED.
6. EXIST HEADWALL / CULVERT TO REMAIN SHALL BE INSPECTED AND REPAIRED AS NEEDED. CULVERT TO BE CLEANED WHEN WORK IS COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE IF WALLS / STRUCTURES ARE DAMAGED DURING CONSTRUCTION (TYP.)
7. WETLAND LINE.
8. EXISTING WOOD FENCE IN CONFLICT WITH PROPOSED WALKWAY / PATH. CONTRATOR TO REMOVE AND REPLACE NEW TO ACCOMODATE PROP PATH. SEE LANDSCAPE PLAN
9. EXISTING ROCK WALL TO REMAIN.



SHEET KEY

N.T.S.



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SCALE IN FEET

PLAN NORTH

PLAN

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

1. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND ERADICATION OF ALL EXOTIC PLANTS FROM THE NORTH SIDE OF THE PARK ENTRY ROAD, NORTH TO THE NORTH PARK PROPERTY LINE.
2. AS THIS IS AN EXTREMELY DELICATE ENVIRONMENTALLY SENSITIVE AREA, ANY EQUIPMENT OR MACHINERY THAT MAY IMPACT (AS DEFINED BY DERM/EEL/NFC) NATIVE PLANTS IS STRICTLY PROHIBITED.
3. WOODY PLANTS WITH A CALIPER (AT 6" ABOVE FINISH GRADE) 2" OR LESS SHALL BE REMOVED USING MANUAL METHODS AND SHALL INCLUDE REMOVAL OF TRUNK AND ROOT FLARE. WOODY PLANTS WITH A CALIPER (AT 6" ABOVE FINISH GRADE) GREATER THAN 2" SHALL BE TREATED IN PLACE USING HERBICIDES APPROVED BY DERM/EEL/NFC.
4. SHRUBBY PLANTS SHALL BE REMOVED ENTIRELY, INCLUDING ALL VISIBLE ROOTS, USING MANUAL NON-MECHANICAL METHODS AS DEFINED AND APPROVED BY DERM/EEL/NFC.
5. PRIOR TO THE COMMENCEMENT OF EXOTIC PLANT REMOVAL, DERM BIOLOGISTS ARE AVAILABLE TO ASSIST THE CONTRACTOR IN IDENTIFYING INVASIVE SPECIES ON SITE.
6. PRIOR TO THE START OF WORK DESCRIBED HERE IN AND PRIOR TO EACH TRIMMING/ALTERATION EVENT, ALL EXOTIC PEST PLANT AND NUISANCE SPECIES AS IDENTIFIED IN SECTION 24-49.9 OF THE CODE OF MIAMI DADE COUNTY SHALL BE ERADICATED (KILLED) BY STUMP CUTTING AND TREATING WITH AN APPROPRIATE HERBICIDE (AS DEFINED BY DERM/EEL/NFC). THE PROPERTY SHALL BE MAINTAINED FREE OF EXOTIC PEST PLANT AND NUISANCE SPECIES THROUGHOUT CONSTRUCTION. CUT EXOTIC VEGETATION SHALL BE TREATED WITH AN APPROPRIATE HERBICIDE (AS DEFINED BY DERM/EEL/NFC) WITHIN ONE HOUR OF CUTTING. THE TREATED STUMPS SHALL BE LEFT IN PLACE TO PREVENT DISRUPTION TO SOILS AND TO ALLOW FOR RE-TREATMENT WITH AN HERBICIDE IF NECESSARY. ALL CUT MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN AUTHORIZED LANDFILL.
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ROSSANA D. CORDOVA
LICENSED
No. 41864
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/11/2023
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ROSSANA D. CORDOVA, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES DEPARTMENT

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 8355
Engineers & Planners
6941 SW 196 ST. SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
ASPHALT REMOVAL PLANS

No.	Date	Revisions Description

100% CONSTRUCTION DOCUMENTS

DESIGNED BY: LER	DATE: 12/11/2023
DRAWN BY: YP LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 20128I5-C101-110.dwg	

CONTRACT No: 20-128.15
999999-15-012

C-101
Sheet
01 of 15

MDC024

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

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LEGEND

- EXIST ASPHALT TO BE REMOVED
- EXIST PAVEMENT/COMPACT ROCK TO BE REMOVED/SCRAPPED UP TO MUCKY SOIL SUITABLE FOR MANGROVE GROWTH (LESS THAN 1')
- PROPERTY LINE / ROW
- SAW CUT LINE
- EXIST EDGE OF ASPHALT
- EDGE OF VEGETATION
- EXIST WIRE FENCE
- EXIST HEADWALL
- WETLAND LINE
- EXISTING SPOT ELEVATION
- ITEM TO BE REMOVED

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
2. WORK TO BE DONE BY IN ACCORDANCE WITH CITY OF CORAL GABLES, MIAMI-DADE COUNTY, AND FDEP REQUIREMENTS.
3. STANDARD INFORMATION BASED ON TOPOGRAPHIC SURVEY PROVIDED BY CLIENT.

KEY NOTES - CIVIL / SITE

1. EXIST BOLLARD TO BE REMOVED.
2. EXISTING ASPHALT TO BE REMOVED. EXISTING BASE TO BE LEFT IN PLACE.
3. EXISTING BENCH TO BE REMOVED.
4. EXISTING SIGN TO BE REMOVED. STORED AND THEN RELOCATED AFTER CONSTRUCTION.
5. CONCRETE CURB TO BE REMOVED.
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7. WETLAND LINE
8. EXISTING WOOD FENCE IN CONFLICT WITH PROPOSED WALKWAY / PATH. CONTRATOR TO REMOVE AND REPLACE NEW TO ACCOMODATE PROP PATH. SEE LANDSCAPE PLAN.

MDC025

MATCHLINE A-A SEE SHEET C-101

MATCHLINE A-A SEE SHEET C-103

BENCHMARK
STATION: 15+71.47
N: 490943.102
E: 896216.09
EL.=4.52

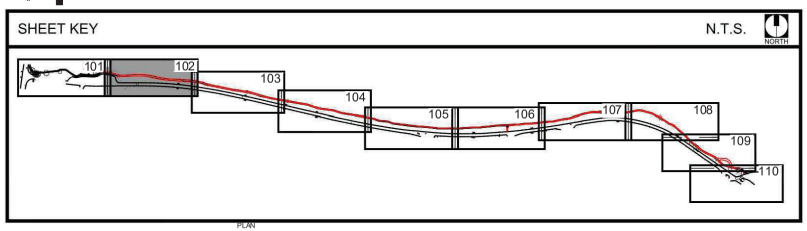
BENCHMARK
STATION: 17+52.22
N: 490929.63
E: 896457.40
EL.=3.67

BENCHMARK
STATION: 20+00.92
N: 490896.81
E: 896703.92
EL.=4.01

SIGN NO PETS
SIGN NO PARKING
SIGN SPEED HUMP
SIGN SPEED LIMIT 15MPH
SIGN NO PARK

SHEET KEY

N.T.S.



0 20 40
SCALE IN FEET

PLAN NORTH

PLAN

100% CONSTRUCTION DOCUMENTS

ROSANA D. CORDOVA
LICENSED
No. 41864
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/11/2023

"THE ITEMS OR PORTIONS OF THE PLANS OR SPECIFICATIONS COVERED BY THIS SEAL, I HAVE STORED BY THE DOCUMENT AND NOT THE SEAL. I HAVE STORED BY THE DOCUMENT AND NOT THE SEAL. I HAVE STORED BY THE DOCUMENT AND NOT THE SEAL."

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 6605

Engineers & Planners
6941 SW 196 ST. SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
ASPHALT REMOVAL PLANS

No.	Date	Revisions Description

DESIGNED BY: LER	DATE: 12/11/2023
DRAWN BY: YP LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 2012815-C101-111.dwg	
CONTRACT No. 20-128.15	
999999-15-012	
C-102	
Sheet 02 of 15	

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

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- EXIST HEADWALL
- WETLAND LINE
- EXISTING SPOT ELEVATION

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
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3. STANDARD INFORMATION BASED ON TOPOGRAPHIC SURVEY PROVIDED BY CLIENT.

KEY NOTES - CIVIL / SITE

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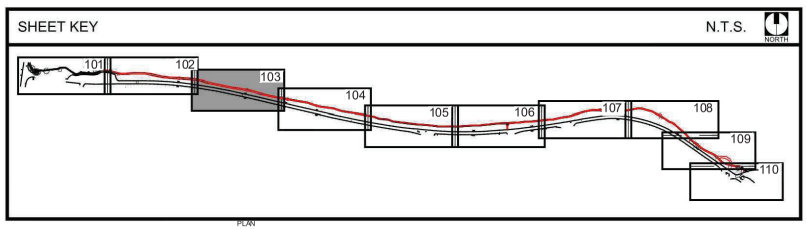
7. WETLAND LINE

MATCHLINE A-A SEE SHEET C-102

MATCHLINE A-A SEE SHEET C-104

MD026

SHEET KEY N.T.S.



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SCALE IN FEET

PLAN NORTH

PLAN

100% CONSTRUCTION DOCUMENTS

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 6605
Engineers & Planners
6941 SW 196 ST. SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
ASPHALT REMOVAL PLANS

No.	Date	Description
		Revisions

DESIGNED BY: LER	DATE: 12/11/2023
DRAWN BY: YP LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 2312815-C101-111.dwg	

CONTRACT No. 20-128.15
999999-15-012

C-103
Sheet
03 of 15

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

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7. WETLAND LINE

MATCHLINE A-A SEE SHEET C-104

MATCHLINE A-A SEE SHEET C-105

MD027

BENCHMARK
STATION
N: 490791.284
E: 897553.28
EL.=2.74

BENCHMARK
STATION
N: 490897.33
E: 897682.60
EL.=2.78

BENCHMARK
STATION
N: 490959.11
E: 897889.79
EL.=2.90

SIGN SPEED HUMP

SIGN SPEED HUMP

SIGN NO PARKING

SIGN SPEED LIMIT 15MPH

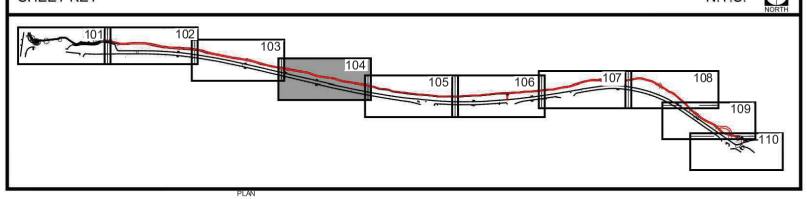
SIGN NO PARK

SIGN SPEED LIMIT 15MPH

SIGN SPEED LIMIT

SHEET KEY

N.T.S.



0 20 40
SCALE IN FEET

PLAN NORTH

PLAN

ROSANA D. CORDOVA
LICENSED
No. 41864
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/11/2023

"THE ITEM OR ITEMS SHOWN ON THIS SHEET AND LISTED IN ROSANA A. CORDOVA, P.E. ON THIS DATE. IT IS NOT TO BE USED FOR ANY OTHER PROJECT. THE SEAL / PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES."

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 6605

Engineers & Planners
6941 SW 196 ST. SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
ASPHALT REMOVAL PLANS

No.	Date	Description
Revisions		

DESIGNED BY: LER	DATE: 12/11/2023
DRAWN BY: YP LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 2012815-C101-111.dwg	

CONTRACT No. 20-128.15
999999-15-012

C-104
Sheet
04 of 15

100% CONSTRUCTION DOCUMENTS

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6. PRIOR TO THE START OF WORK DESCRIBED HERE IN AND PRIOR TO EACH TRIMMING/ALTERATION EVENT, ALL EXOTIC PEST PLANT AND NUISANCE SPECIES AS IDENTIFIED IN SECTION 24-49.9 OF THE CODE OF MIAMI DADE COUNTY SHALL BE ERADICATED (KILLED) BY STUMP CUTTING AND TREATING WITH AN APPROPRIATE HERBICIDE (AS DEFINED BY DERM/EEL/NFC). THE PROPERTY SHALL BE MAINTAINED FREE OF EXOTIC PEST PLANT AND NUISANCE SPECIES THROUGHOUT CONSTRUCTION. CUT EXOTIC VEGETATION SHALL BE TREATED WITH AN APPROPRIATE HERBICIDE (AS DEFINED BY DERM/EEL/NFC) WITHIN ONE HOUR OF CUTTING. THE TREATED STUMPS SHALL BE LEFT IN PLACE TO PREVENT DISRUPTION TO SOILS AND TO ALLOW FOR RE-TREATMENT WITH AN HERBICIDE IF NECESSARY. ALL CUT MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN AUTHORIZED LANDFILL.
7. ALL INVASIVE EXOTIC PLANT SPECIES WITHIN THE PROPERTY SHALL BE ERADICATED (KILLED) AND SHALL BE MAINTAINED FREE FROM EXOTIC VEGETATION THROUGHOUT CONSTRUCTION. IF STUMP CUTTING IS PERFORMED, CUT EXOTIC VEGETATION SHALL BE TREATED WITH AN APPROPRIATE HERBICIDE (AS DEFINED AND APPROVED BY DERM/EEL/NFC) WITHIN ONE HOUR OF CUTTING. ALL CUT MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN AUTHORIZED LANDFILL. THIS CONDITION SHALL BE SATISFIED WITHIN 30 DAYS OF PERMIT ISSUANCE.

LEGEND

- EXIST ASPHALT TO BE REMOVED
- EXIST PAVEMENT/COMPACT ROCK TO BE REMOVED/SCRAPPED UP TO MUCKY SOIL SUITABLE FOR MANGROVE GROWTH (LESS THAN 1')
- PROPERTY LINE / ROW
- SAW CUT LINE
- EXIST EDGE OF ASPHALT
- EDGE OF VEGETATION
- EXIST WIRE FENCE
- EXIST HEADWALL
- WETLAND LINE
- EXISTING SPOT ELEVATION

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
2. WORK TO BE DONE BY IN ACCORDANCE WITH CITY OF CORAL GABLES, MIAMI-DADE COUNTY, AND FDEP REQUIREMENTS.
3. STANDARD INFORMATION BASED ON TOPOGRAPHIC SURVEY PROVIDED BY CLIENT.

KEY NOTES - CIVIL / SITE

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3. EXISTING BENCH TO BE REMOVED.
4. EXISTING SIGN TO BE REMOVED, STORED AND THEN RELOCATED AFTER CONSTRUCTION.
5. CONCRETE CURB TO BE REMOVED.
6. EXIST HEADWALL / CULVERT TO REMAIN SHALL BE INSPECTED AND REPAIRED AS NEEDED. CULVERT TO BE CLEANED WHEN WORK IS COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE IF WALLS / STRUCTURES ARE DAMAGED DURING CONSTRUCTION (TYP.)
7. WETLAND LINE

MATCHLINE A-A SEE SHEET C-104

MATCHLINE A-A SEE SHEET C-106

BENCHMARK
STATION: 33+01.13
N: 490851.78
E: 898173.94
EL.=2.32

BENCHMARK
STATION: 37+56.27
N: 490873.06
E: 898427.53
EL.=2.62

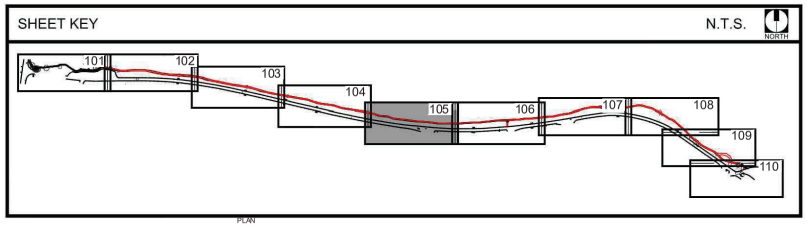
SIGN NO PARKING

SIGN SPEED LIMIT 15MPH

SIGN NO PARKING

SHEET KEY

N.T.S.



0 20 40
SCALE IN FEET

PLAN NORTH

PLAN

MDC028

C-105

100% CONSTRUCTION DOCUMENTS

ROSANA D. CORDOVA
LICENSED
No. 41864
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/11/2023

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MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 6855

Engineers & Planners
6941 SW 196 ST. SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
ASPHALT REMOVAL PLANS

No.	Date	Revisions Description

DESIGNED BY: LER	DATE: 12/11/2023
DWN BY: YP LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 2012815-C101-110.dwg	

CONTRACT No. 20-128.15
999999-15-012

C-105
Sheet
05 of 15

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

1. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND ERADICATION OF ALL EXOTIC PLANTS FROM THE NORTH SIDE OF THE PARK ENTRY ROAD, NORTH TO THE NORTH PARK PROPERTY LINE.
2. AS THIS IS AN EXTREMELY DELICATE ENVIRONMENTALLY SENSITIVE AREA, ANY EQUIPMENT OR MACHINERY THAT MAY IMPACT (AS DEFINED BY DERM/EEL/NFC) NATIVE PLANTS IS STRICTLY PROHIBITED.
3. WOODY PLANTS WITH A CALIPER (AT 6" ABOVE FINISH GRADE) 2" OR LESS SHALL BE REMOVED USING MANUAL METHODS AND SHALL INCLUDE REMOVAL OF TRUNK AND ROOT FLARE. WOODY PLANTS WITH A CALIPER (AT 6" ABOVE FINISH GRADE) GREATER THAN 2" SHALL BE TREATED IN PLACE USING HERBICIDES APPROVED BY DERM/EEL/NFC.
4. SHRUBBY PLANTS SHALL BE REMOVED ENTIRELY, INCLUDING ALL VISIBLE ROOTS, USING MANUAL NON-MECHANICAL METHODS AS DEFINED AND APPROVED BY DERM/EEL/NFC.
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- EXIST HEADWALL
- WETLAND LINE
- EXISTING SPOT ELEVATION

GENERAL NOTES

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3. STANDARD INFORMATION BASED ON TOPOGRAPHIC SURVEY PROVIDED BY CLIENT.

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5. CONCRETE CURB TO BE REMOVED.
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7. WETLAND LINE

MDC029

MATCHLINE A-A SEE SHEET C-105

MATCHLINE A-A SEE SHEET C-107

BENCHMARK
STATION: 40+02.41
N: 490578.17
E: 898673.62
EL.=2.23

BENCHMARK
STATION: 42+39.45
N: 490593.18
E: 898910.18
EL.=2.67

BENCHMARK
STATION: 44+55.57
N: 490610.22
E: 899125.62
EL.=2.55

N88°48'52"E 246.14'

N86°22'12"E 237.04'

39+00

40+00

41+00

42+00

43+00

44+00

SIGN SPEED HUMP

SIGN NO PARKING

SIGN SPEED HUMP

SIGN NO PARKING

SIGN NO PARKING

SHEET KEY

N.T.S.

NORTH

101 102 103 104 105 106 107 108 109 110

0 20 40

SCALE IN FEET

PLAN NORTH

PLAN

RISSIA D. CORDOVA
LICENSED
No. 41864
STATE OF FLORIDA
PROFESSIONAL ENGINEER
12/11/2023

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MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 6855

Engineers & Planners
6941 SW 196 ST. SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
ASPHALT REMOVAL PLANS

No.	Date	Revisions Description

100% CONSTRUCTION DOCUMENTS

DESIGNED BY: LER	DATE: 12/11/2023
DWN BY: VP LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 2012815-C101-110.dwg	

CONTRACT No. 20-128.15
999999-15-012

C-106

Sheet
06 of 15

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

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7. WETLAND LINE.
8. EXISTING SEAWALL TO REMAIN

MDC030

MATCHLINE A-A SEE SHEET C-106

MATCHLINE A-A SEE SHEET C-108

BENCHMARK
STATION: 48+10.58
N: 490680.44
E: 899472.58
EL.=3.25

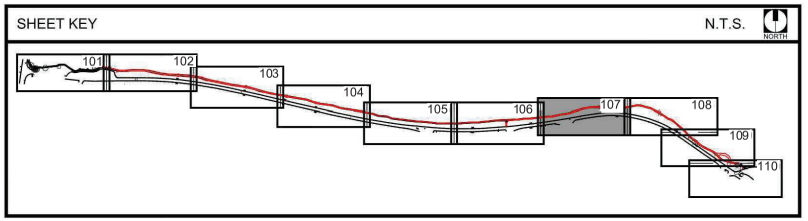
BENCHMARK
STATION: 46+72.92
N: 490640.39
E: 899340.87
EL.=3.18

BENCHMARK
STATION: 50+07.19
N: 490675.48
E: 899669.13
EL.=2.95

FLAG W-54 EL.=3.2' SIGN NO PARKING
FLAG W-55 EL.=3.4'
FLAG W-56 EL.=3.7'
FLAG W-57 EL.=3.6'
FLAG E-10 EL.=3.9'
FLAG W-58 EL.=3.6'
FLAG W-59 EL.=3.3'
FLAG W-60 EL.=3.7'

SIGN SPEED LIMIT 15
SIGN NO PARKING
SIGN RED FISH
SIGN STOP
SIGN SPEED LIMIT 15
SIGN NO PARKING

SHEET KEY N.T.S.



0 20 40
SCALE IN FEET

PLAN NORTH

PLAN

100% CONSTRUCTION DOCUMENTS

ROSANA D. CORDOVA — LICENSED — No. 41864 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
12/11/2023

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MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 8355
Engineers & Planners
6941 SW 196 ST. SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

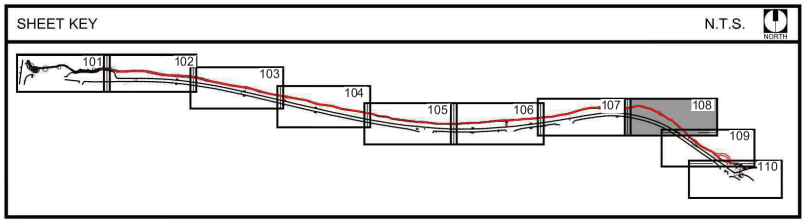
Sheet Title:
ASPHALT REMOVAL PLANS

No.	Date	Revisions Description

DESIGNED BY: LER	DATE: 12/11/2023
DWN BY: VP LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 2012815-C101-110.dwg	

CONTRACT No. 20-128.15
999999-15-012

C-107
Sheet
07 of 15



LEGEND

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- EXIST EDGE OF ASPHALT
- EDGE OF VEGETATION
- EXIST WIRE FENCE
- EXIST HEADWALL
- WETLAND LINE
- EXISTING SPOT ELEVATION

GENERAL NOTES

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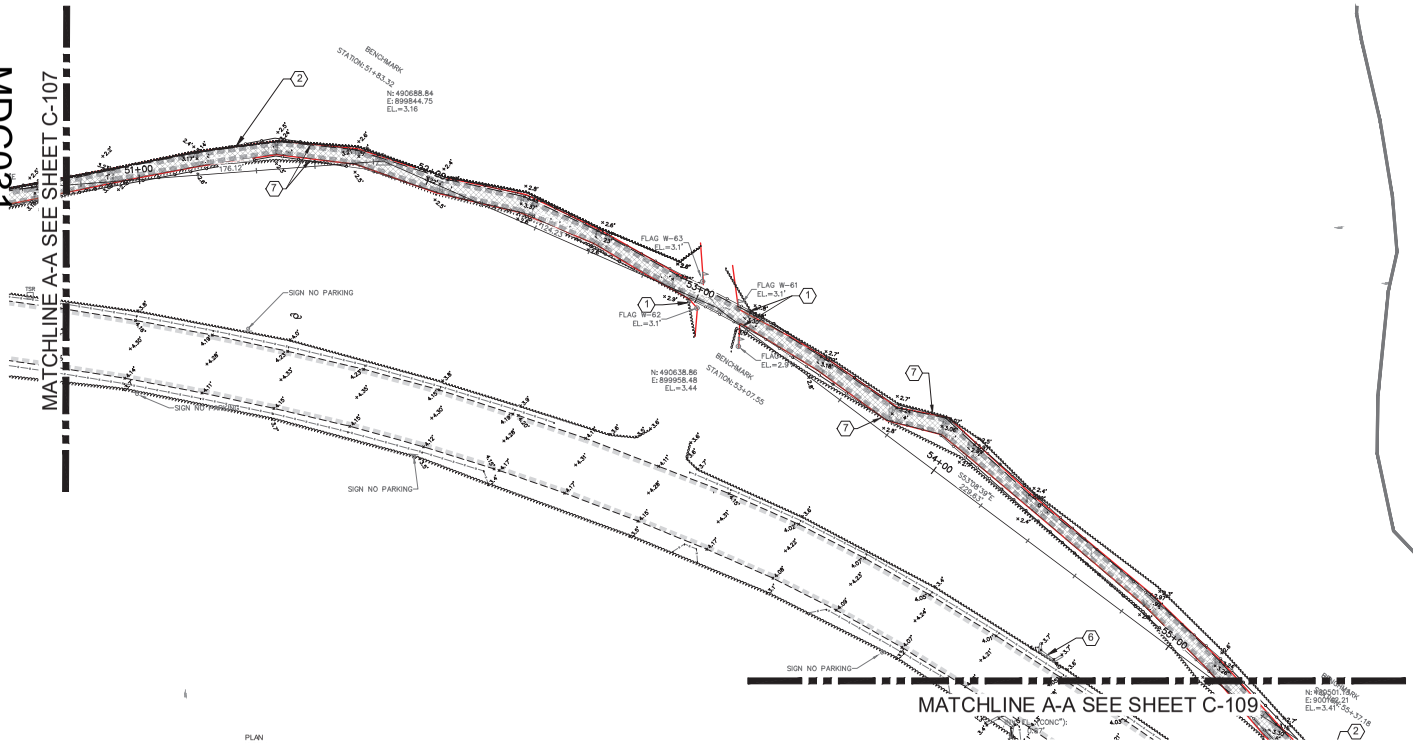

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 6605
Engineers & Planners
6941 SW 196 ST. SUITE 28. PEMBROKE PINES. FL 33332

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES DEPARTMENT

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
ASPHALT REMOVAL PLANS

No.	Date	Revisions Description

DESIGNED BY: LER	DATE: 12/11/2023
DRAWN BY: YP LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 2312815-C101-110.dwg	

CONTRACT No. 20-128.15
999999-15-012

C-108
Sheet
08 of 15

100% CONSTRUCTION DOCUMENTS

ROSANA D. CORDOVA — LICENSED — No. 41864 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
12/11/2023

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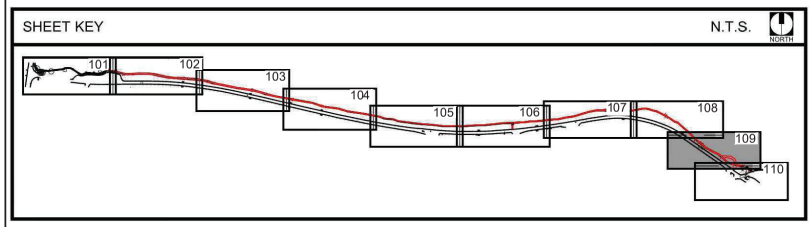
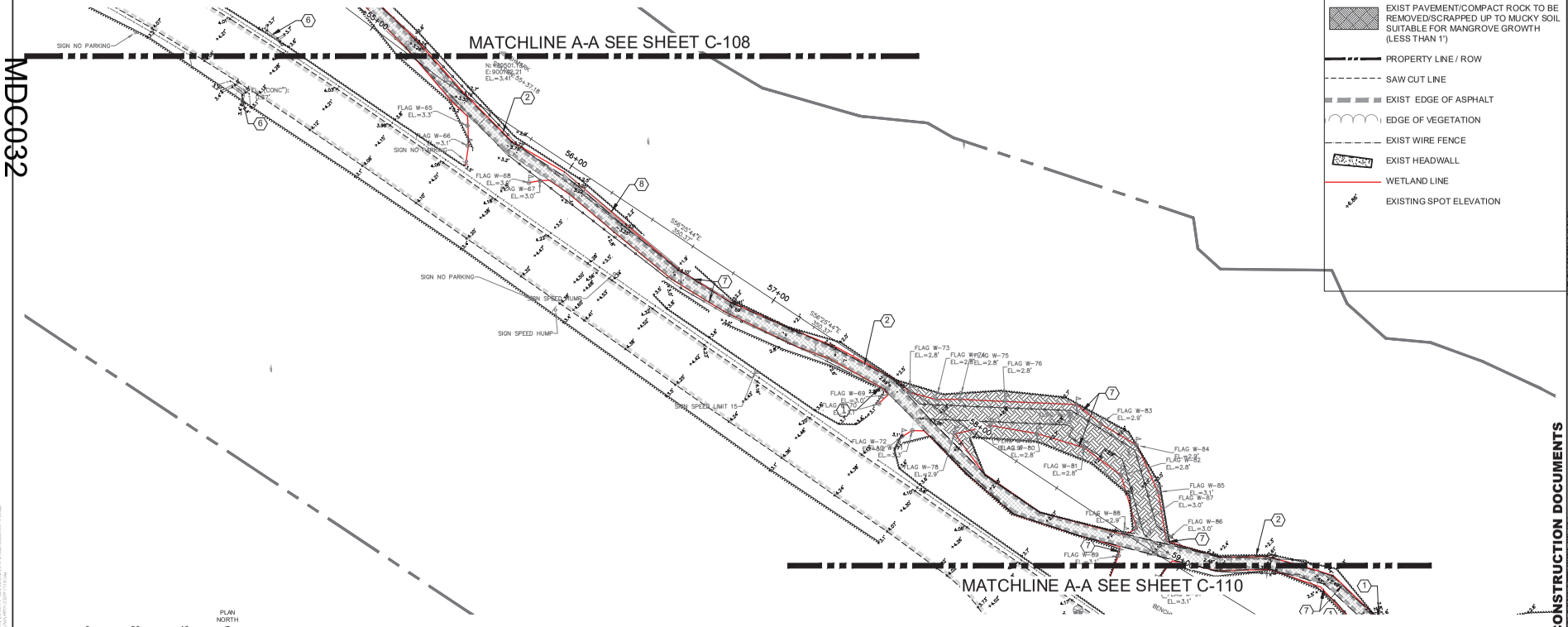
5. PRIOR TO THE COMMENCEMENT OF EXOTIC PLANT REMOVAL, DERM BIOLOGISTS ARE AVAILABLE TO ASSIST THE CONTRACTOR IN IDENTIFYING INVASIVE SPECIES ON SITE.
6. PRIOR TO THE START OF WORK DESCRIBED HERE IN AND PRIOR TO EACH TRIMMING/ALTERATION EVENT, ALL EXOTIC PEST PLANT AND NUISANCE SPECIES AS IDENTIFIED IN SECTION 24-49.9 OF THE CODE OF MIAMI DADE COUNTY SHALL BE ERADICATED (KILLED) BY STUMP CUTTING AND TREATING WITH AN APPROPRIATE HERBICIDE (AS DEFINED BY DERM/EEL/NFC). THE PROPERTY SHALL BE MAINTAINED FREE OF EXOTIC PEST PLANT AND NUISANCE SPECIES THROUGHOUT CONSTRUCTION. CUT EXOTIC VEGETATION SHALL BE TREATED WITH AN APPROPRIATE HERBICIDE (AS DEFINED BY DERM/EEL/NFC) WITHIN ONE HOUR OF CUTTING. THE TREATED STUMPS SHALL BE LEFT IN PLACE TO PREVENT DISRUPTION TO SOILS AND TO ALLOW FOR RE-TREATMENT WITH AN HERBICIDE IF NECESSARY. ALL CUT MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN AUTHORIZED LANDFILL.
7. ALL INVASIVE EXOTIC PLANT SPECIES WITHIN THE PROPERTY SHALL BE ERADICATED (KILLED) AND SHALL BE MAINTAINED FREE FROM EXOTIC VEGETATION THROUGHOUT CONSTRUCTION. IF STUMP CUTTING IS PERFORMED, CUT EXOTIC VEGETATION SHALL BE TREATED WITH AN APPROPRIATE HERBICIDE (AS DEFINED AND APPROVED BY DERM/EEL/NFC) WITHIN ONE HOUR OF CUTTING. ALL CUT MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN AUTHORIZED LANDFILL. THIS CONDITION SHALL BE SATISFIED WITHIN 30 DAYS OF PERMIT ISSUANCE.

C-109

SHEET KEY N.T.S.



MDC032



GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
2. WORK TO BE DONE BY IN ACCORDANCE WITH CITY OF CORAL GABLES, MIAMI-DADE COUNTY, AND FDEP REQUIREMENTS.
3. STANDARD INFORMATION BASED ON TOPOGRAPHIC SURVEY PROVIDED BY CLIENT.

KEY NOTES - SITE

1. EXIST BOLLARD TO BE REMOVED.
2. EXISTING ASPHALT TO BE REMOVED. EXISTING BASE TO BE LEFT IN PLACE.
3. EXISTING BENCH TO BE REMOVED.
4. EXISTING SIGN TO BE REMOVED, STORED AND THEN RELOCATED AFTER CONSTRUCTION.
5. CONCRETE CURB TO BE REMOVED.
6. EXIST HEADWALL / CULVERT TO REMAIN SHALL BE INSPECTED AND REPAIRED AS NEEDED. CULVERT TO BE CLEANED WHEN WORK IS COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE IF WALLS / STRUCTURES ARE DAMAGED DURING CONSTRUCTION (TYP.)
7. WETLAND LINE
8. EXISTING SEAWALL TO REMAIN

LEGEND

- EXIST ASPHALT TO BE REMOVED
- EXIST PAVEMENT/COMPACT ROCK TO BE REMOVED/SCRAPPED UP TO MUCKY SOIL SUITABLE FOR MANGROVE GROWTH (LESS THAN 1')
- PROPERTY LINE / ROW
- SAW CUT LINE
- EXIST EDGE OF ASPHALT
- EDGE OF VEGETATION
- EXIST WIRE FENCE
- EXIST HEADWALL
- WETLAND LINE
- EXISTING SPOT ELEVATION

ROSANA D. CORDOVA LICENSED No. 41864 STATE OF FLORIDA PROFESSIONAL ENGINEER 12/11/2023

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MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 6605

Engineers & Planners
6941 SW 196 ST. SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
ASPHALT REMOVAL PLANS

No.	Date	Description
Revisions		

DESIGNED BY: LER	DATE: 12/11/2023
DWN BY: VP LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 2'0"	SIZE: ARCH D
FILE NAME: 2312815-C101-111.dwg	

CONTRACT No. 20-128.15
999999-15-012

C-109
Sheet
09 of 15

100% CONSTRUCTION DOCUMENTS

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

1. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND ERADICATION OF ALL EXOTIC PLANTS FROM THE NORTH SIDE OF THE PARK ENTRY ROAD, NORTH TO THE NORTH PARK PROPERTY LINE.
2. AS THIS IS AN EXTREMELY DELICATE ENVIRONMENTALLY SENSITIVE AREA, ANY EQUIPMENT OR MACHINERY THAT MAY IMPACT (AS DEFINED BY DERM/EEL/NFC) NATIVE PLANTS IS STRICTLY PROHIBITED.
3. WOODY PLANTS WITH A CALIPER (AT 6" ABOVE FINISH GRADE) 2" OR LESS SHALL BE REMOVED USING MANUAL METHODS AND SHALL INCLUDE REMOVAL OF TRUNK AND ROOT FLARE. WOODY PLANTS WITH A CALIPER (AT 6" ABOVE FINISH GRADE) GREATER THAN 2" SHALL BE TREATED IN PLACE USING HERBICIDES APPROVED BY DERM/EEL/NFC.
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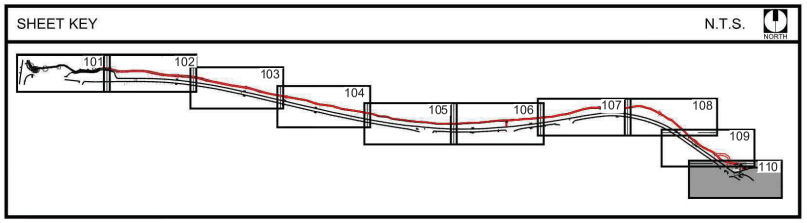
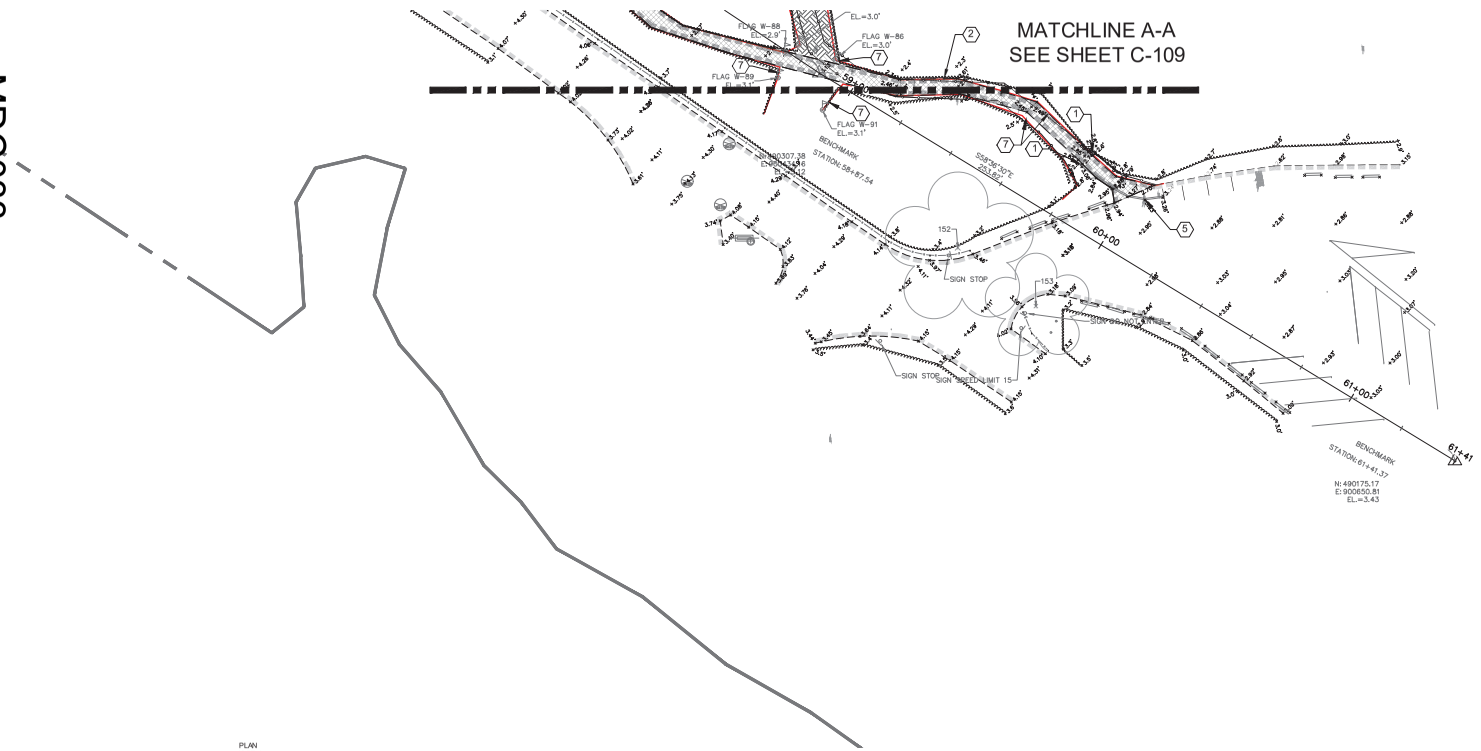
SHEET KEY N.T.S.





PLAN

0 20 40
SCALE IN FEET

PLAN NORTH

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
2. WORK TO BE DONE BY IN ACCORDANCE WITH CITY OF CORAL GABLES, MIAMI-DADE COUNTY, AND FDEP REQUIREMENTS.
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KEY NOTES - SITE

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7. WETLAND LINE

LEGEND

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- EXIST PAVEMENT/COMPACT ROCK TO BE REMOVED/SCRAPPED UP TO MUCKY SOIL SUITABLE FOR MANGROVE GROWTH (LESS THAN 1')
- PROPERTY LINE / ROW
- SAW CUT LINE
- EXIST EDGE OF ASPHALT
- EDGE OF VEGETATION
- EXIST WIRE FENCE
- EXIST HEADWALL (SW-3.0 I-8.7)
- WETLAND LINE
- EXISTING SPOT ELEVATION (+4.96')

ROSANA D. CORDOVA LICENSED No. 41864 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/11/2023

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MIAMI-DADE PARKS, RECREATION & OPEN SPACES

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 8355

Engineers & Planners
6941 SW 196 ST. SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
ASPHALT REMOVAL PLANS

No.	Date	Revisions Description

DESIGNED BY: LER	DATE: 12/11/2023
DWN BY: YP LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 2'0'	SIZE: ARCH D
FILE NAME: 2012815-C101-111.dwg	

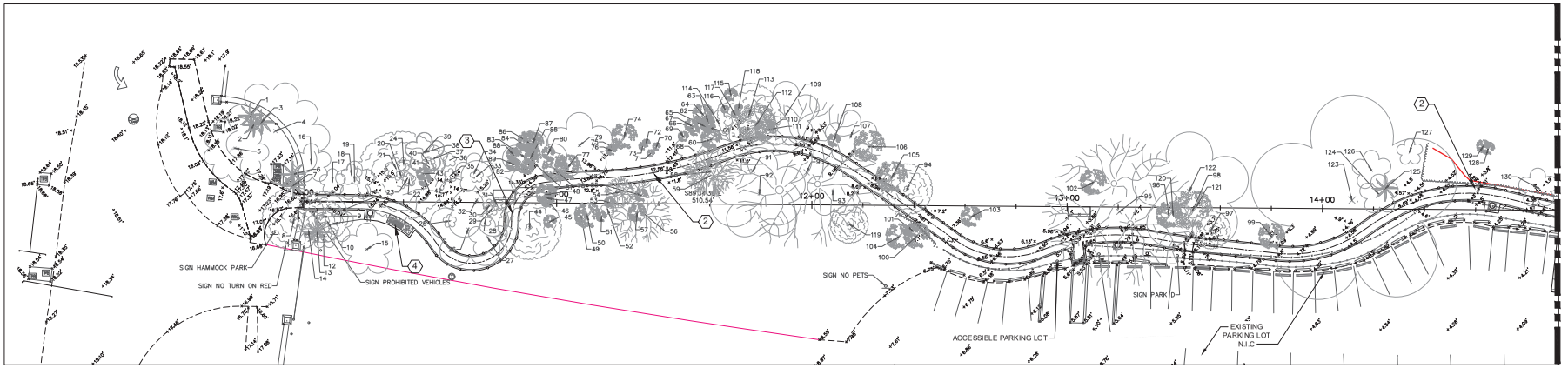
CONTRACT No. 20-128.15
999999-15-012

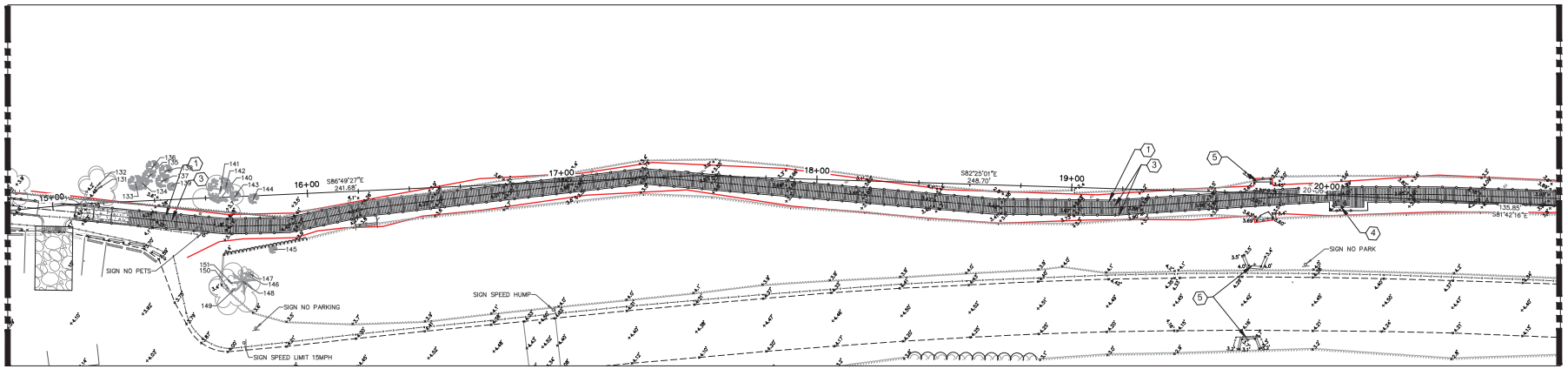
C-110
Sheet
10 of 15

100% CONSTRUCTION DOCUMENTS

C-110

MDC033





PLAN

0 20 40
SCALE IN FEET

PLAN NORTH

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

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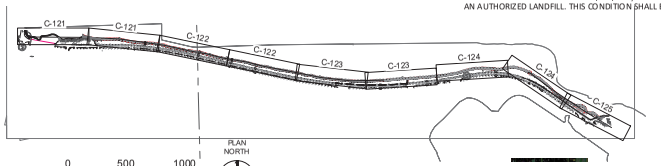

KEY MAP

LEGEND

- ELEVATED BOARDWALK
- CONCRETE SLOPED SURFACE
- TEMPORARY CONSTRUCTION ENTRANCE
- PROPERTY LINE / ROW
- EXIST ASPHALT
- SILT FENCE TYPE 3
- SAW CUT LINE
- WETLAND LINE
- EXISTING SPOT ELEVATION

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
2. WORK TO BE DONE BY IN ACCORDANCE WITH CITY OF CORAL GABLES, MIAMI-DADE COUNTY, AND FDEP REQUIREMENTS.
3. STANDARD INFORMATION BASED ON TOPOGRAPHIC SURVEY PROVIDED BY CLIENT.
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KEY NOTES - CIVIL / SITE

1. PROP ELEVATED BOARDWALK SEE L-SHEETS FOR MORE INFO.
2. PROP PATH - SEE L- SHEETS
3. EXISTING ASPHALT TO BE REMOVED. EXISTING BASE TO BE LEFT IN PLACE. SEE C-101 THRU C-110 FOR MORE INFO.
4. PROP BENCH- SEE L-SHEETS
5. EXIST HEADWALL TO REMAIN

ROSANA D. CORDOVA LICENSE No. 41864 STATE OF FLORIDA PROFESSIONAL ENGINEER 12/1/2023

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CORDOVA RODRIGUEZ & ASSOCIATES, INC.
CA 31900

Engiers & Planners
6941 SW 196 ST, SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
STORMWATER POLLUTION PREVENTION PLANS

No.	Date	Revisions Description

DESIGNED BY: LER	DATE: 12/11/2023
DWN BY: YP, LER	CK'D BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 20128.15-C121-125.dwg	

CONTRACT No 20-128.15
999999-15-012

C-121
Sheet
11 of 15

100% CONSTRUCTION DOCUMENTS

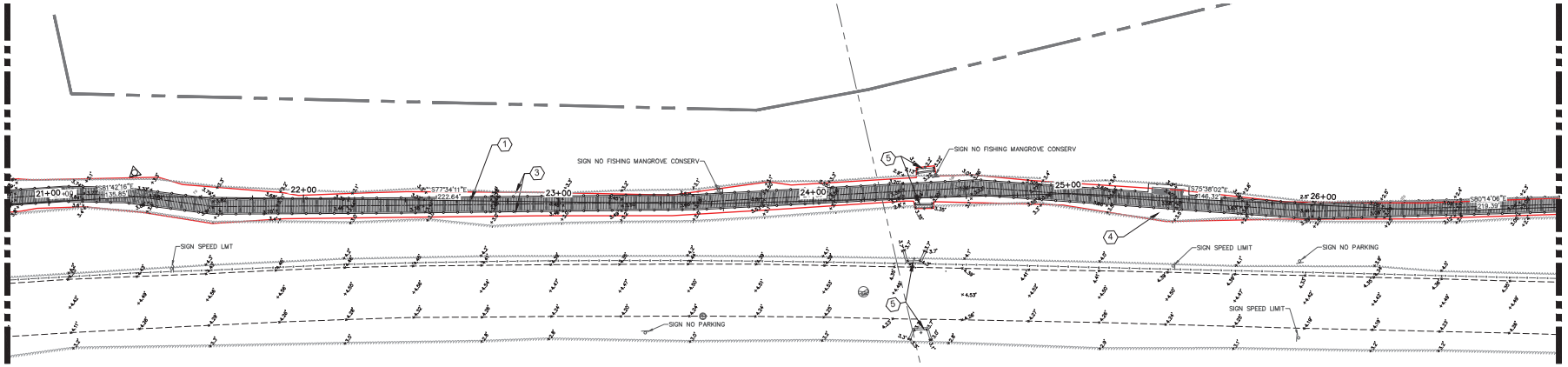
MDC034

C-121

MDC035

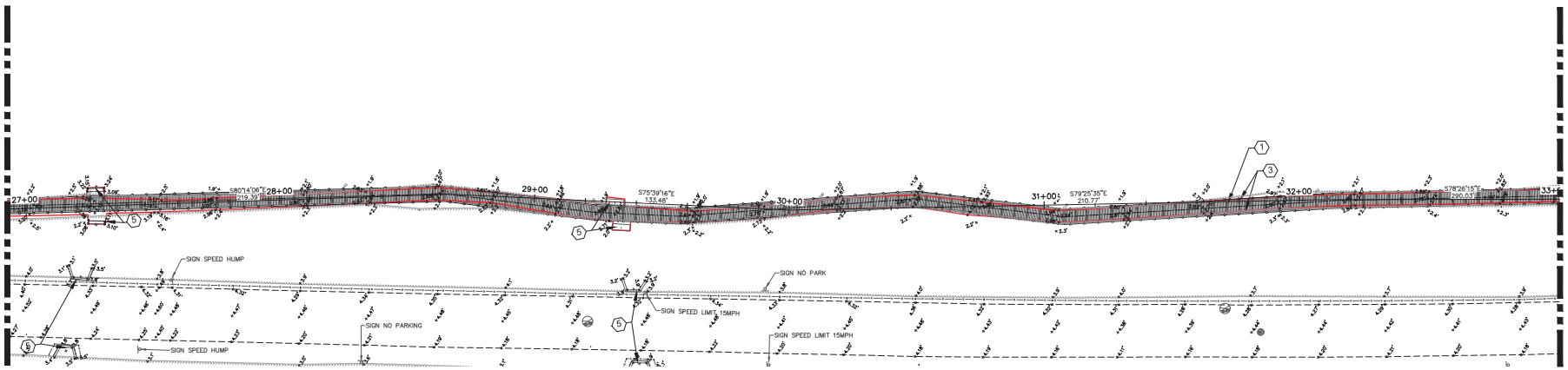
MATCHLINE B-B SEE SHEET C-121

MATCHLINE C-C SEE SHEET C-122



MATCHLINE C-C SEE SHEET C-122

MATCHLINE D-D SEE SHEET C-123



0 20 40
SCALE IN FEET
PLAN NORTH

PLAN

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

1. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND ERADICATION OF ALL EXOTIC PLANTS FROM THE NORTH SIDE OF THE PARK ENTRY ROAD, NORTH TO THE NORTH PARK PROPERTY LINE.
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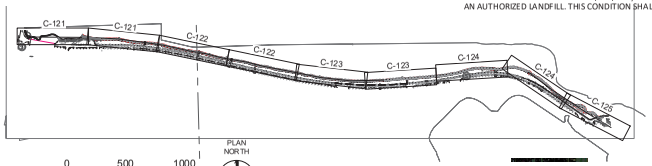

KEY MAP

LEGEND

- ELEVATED BOARDWALK
- CONCRETE SLOPED SURFACE
- TEMPORARY CONSTRUCTION ENTRANCE
- PROPERTY LINE / ROW
- EXIST ASPHALT
- SILT FENCE TYPE 3
- SAW CUT LINE
- WETLAND LINE
- EXISTING SPOT ELEVATION (+6.90)

GENERAL NOTES

1. ALL ELEVATIONS SHOWN ARE RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
2. WORK TO BE DONE BY IN ACCORDANCE WITH CITY OF CORAL GABLES, MIAMI-DADE COUNTY, AND FDEP REQUIREMENTS.
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KEY NOTES - CIVIL / SITE

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2. PROP PATH - SEE L- SHEETS
3. EXISTING ASPHALT TO BE REMOVED. EXISTING BASE TO BE LEFT IN PLACE. SEE C-101 THRU C-110 FOR MORE INFO.
4. PROP BENCH- SEE L-SHEETS
5. EXIST HEADWALL TO REMAIN

100% CONSTRUCTION DOCUMENTS

ROSANA D. CORDOVA LICENSE No. 41864 STATE OF FLORIDA PROFESSIONAL ENGINEER 12/11/2023

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BOARD of COUNTY COMMISSIONERS MIAMI-DADE COUNTY, FLORIDA

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 27000

Engineers & Planners
6941 SW 196 ST, SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
STORMWATER POLLUTION PREVENTION PLANS

No.	Date	Revisions Description

DESIGNED BY: LER	DATE: 12/11/2023
DRN BY: YP, LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 2012815-C121-125.dwg	

CONTRACT No 20-128.15
999999-15-012

C-122

Sheet
12 of 15

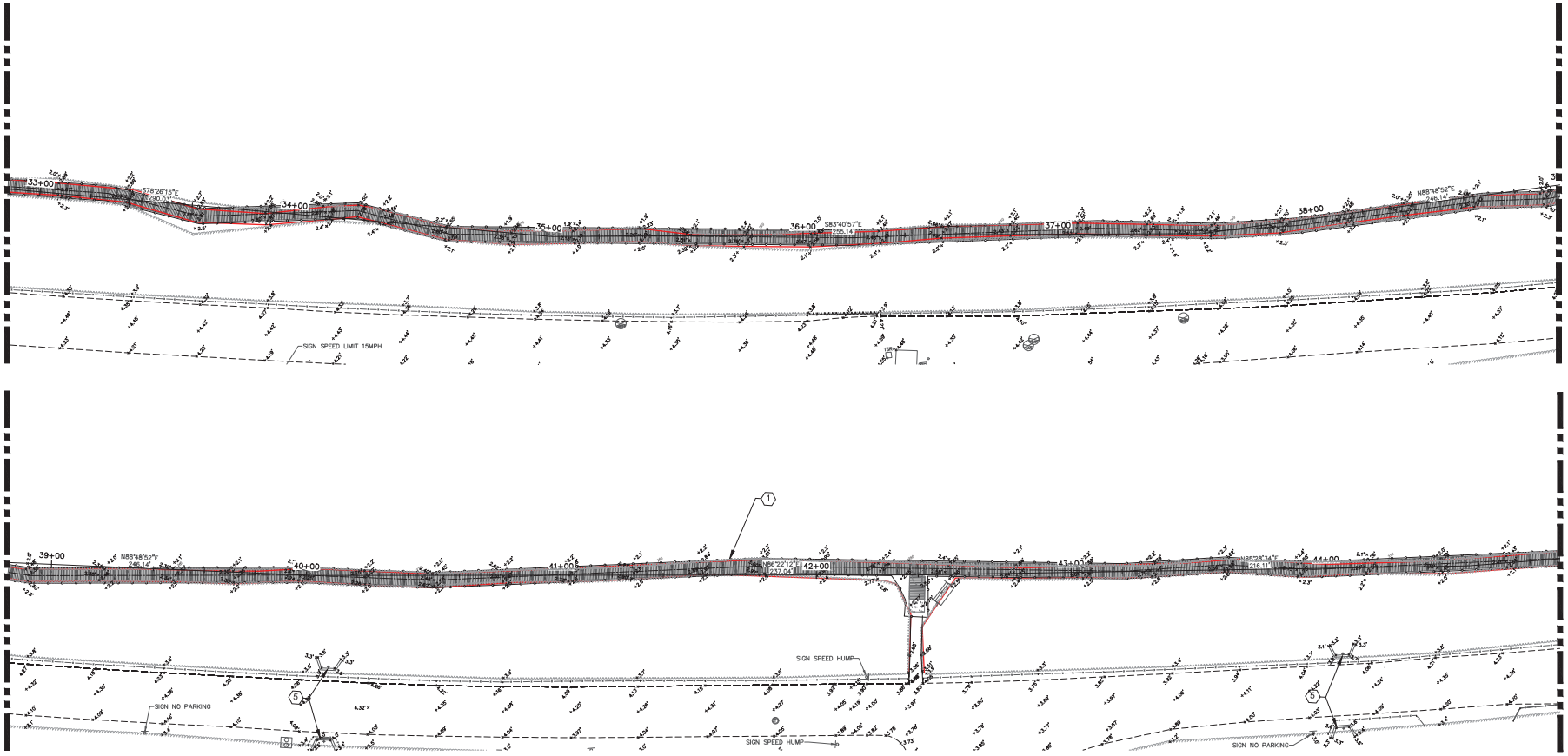
MDC036

MATCHLINE D-D SEE SHEET C-122

MATCHLINE E-E SEE SHEET C-123

MATCHLINE E-E SEE SHEET C-123

MATCHLINE F-F SEE SHEET C-124



PLAN

0 20 40
SCALE IN FEET

PLAN NORTH

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

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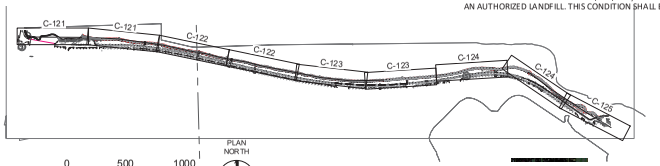

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SCALE IN FEET

PLAN NORTH

KEY MAP

LEGEND

- ELEVATED BOARDWALK
- CONCRETE SLOPED SURFACE
- TEMPORARY CONSTRUCTION ENTRANCE
- PROPERTY LINE / ROW
- EXIST ASPHALT
- SILT FENCE TYPE 3
- SAW CUT LINE
- WETLAND LINE
- +6.90 EXISTING SPOT ELEVATION

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4. PROP BENCH- SEE L-SHEETS
5. EXIST HEADWALL TO REMAIN

100% CONSTRUCTION DOCUMENTS

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ROSANA D. CORDOVA LICENSE No. 41864 STATE OF FLORIDA PROFESSIONAL ENGINEER
12/11/2023

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MIAMI-DADE COUNTY PUBLIC WORKS

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 27844

Engineers & Planners
6941 SW 196 ST, SUITE 28, PEMBROKE PINES, FL 33332

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
4711 SOUTH LEJUNE ROAD
CORAL GABLES, FL. 33146

Sheet Title:
STORMWATER POLLUTION PREVENTION PLANS

No.	Revisions Description	Date

DESIGNED BY: LER	DATE: 12/11/2023
DWN BY: YP, LER	CKD BY: RDC
PROJECT MANAGER: LER	
PLOT SCALE: 1" = 20'	SIZE: ARCH D
FILE NAME: 20128I5-C121-125.dwg	

CONTRACT No. 20-128.15
999999-15-012

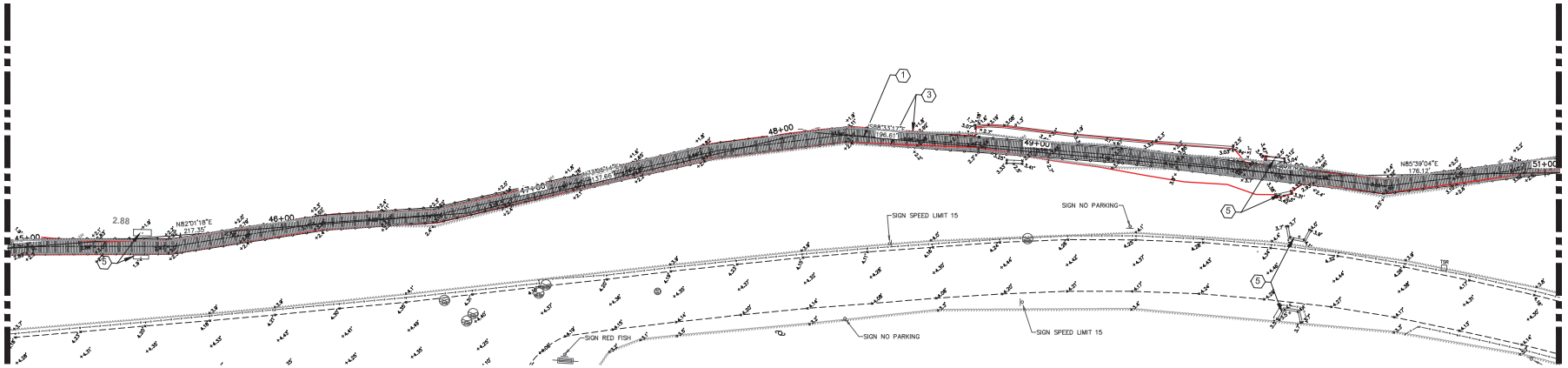
C-123

Sheet
13 of 15

MDC037

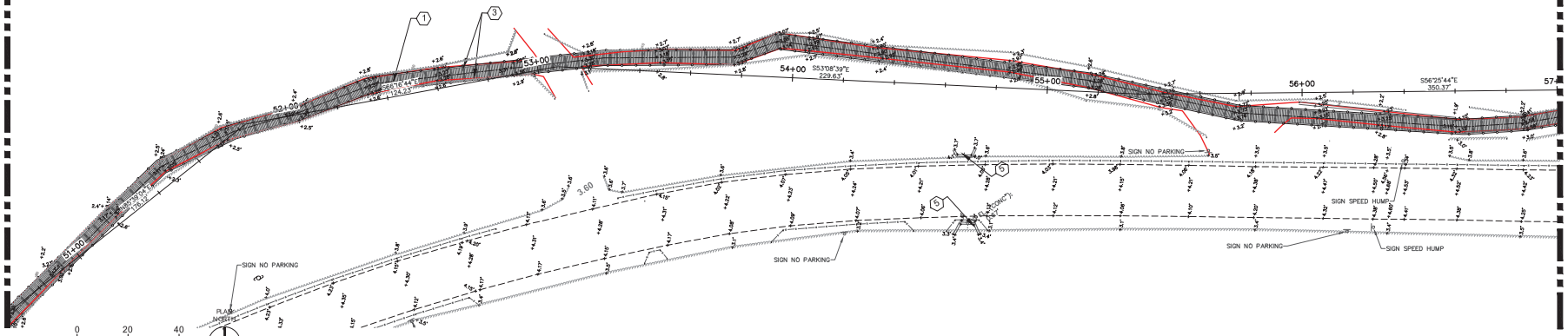
MATCHLINE F-F SEE SHEET C-123

MATCHLINE G-G SEE SHEET C-124



MATCHLINE G-G SEE SHEET C-124

MATCHLINE H-H SEE SHEET C-125



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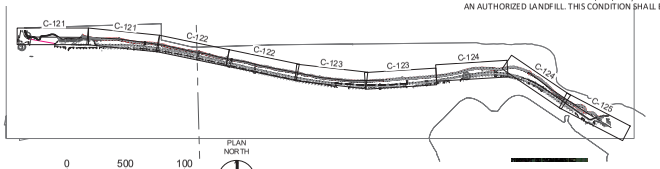
PLAN



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C-124

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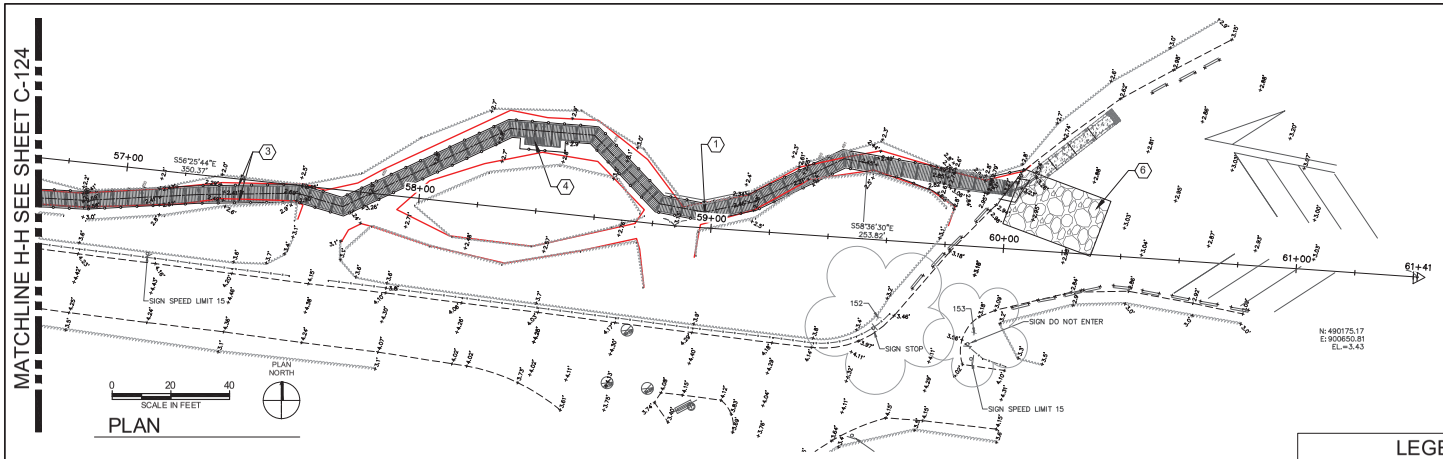
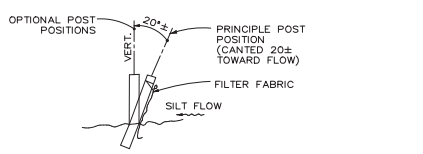
MDC038



PLAN



NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (LF).

TYPE III SILT FENCE

NTS

LEGEND

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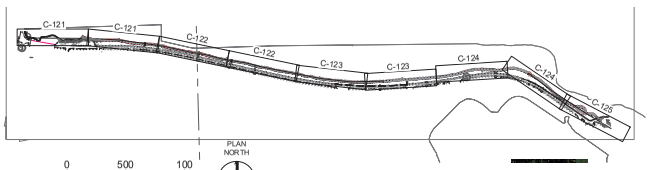
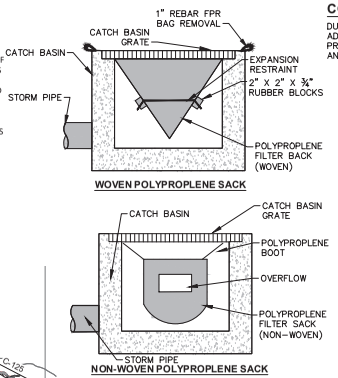


KEY MAP



NOTES:

1. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER FABRIC INLET SACKS TO BE DETERMINED BY MANUFACTURER.

INSERT INLET PROTECTION DETAIL

N.T.S.

CONSTRUCTION IN ENVIRONMENTAL SENSITIVE PLANT AND TIDAL WETLANDS

DUE TO THE ENVIRONMENTALLY SENSITIVE LOCATIONS OF THE PROPOSED IMPROVEMENTS, CONTRACTOR IS ADVISED THAT THE USE OF MACHINERY AND EQUIPMENT IS LIMITED AND IN SOME INSTANCES IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL FACTOR IN THE COST OF THE FOLLOWING CONDITIONS WHEN BIDDING AND CONSTRUCTING THIS PROJECT:

1. CONTRACTOR IS SUBJECT FOR ALL TERMS AND CONDITIONS OF THE DERM CLASS 1 PERMIT, FDEP AND USACE.
2. VERTICAL TRIMMING OF MANGROVE, AS DEFINED BY THE CLASS 1 DERM PERMIT, IS NOT PERMITTED. MANGROVE TRIMMING IS LIMITED TO WHAT IS DESCRIBED IN THE CLASS 1 DERM PERMIT.
3. ALL ASPHALT SHALL BE REMOVED USING NON-MECHANICAL METHODS. THE USE OF EQUIPMENT FOR THIS ACTIVITY/EXERCISE IS PROHIBITED.
4. FOR CONSTRUCTION OF THE PERVIOUS CONCRETE PATHWAY AT THE WEST END OF THE PROJECT, MECHANICAL EQUIPMENT IS STRICTLY PROHIBITED. ONLY CONVEYORS, HAND PULL CARTS AND WHEELBARROWS ARE PERMITTED. IN THIS AREA, EVERY EFFORT SHALL BE MADE TO NOT COMPACT THE EXISTING FOREST FLOOR WHICH IS ENVIRONMENTALLY SENSITIVE TO COMPACTION. SHOULD A TREE DIE FROM COMPACTION CAUSED BY THE CONTRACTOR, THEY SHALL BE FINANCIALLY RESPONSIBLE FOR ALL MITIGATION INCLUDING DESIGN FEES, PERMIT FEES, PLANT MATERIAL COST AND ANY FINES LEVIED BY REGULATORY AGENCIES.
5. FOR CONSTRUCTION OF THE BOARDWALK, LIGHT EQUIPMENT AND MACHINERY, SUCH AS A UTILITY ATV, MAY BE USED TO HAUL MATERIAL AND SUPPLIES. USE OF SUCH MACHINERY IS LIMITED AND SHALL BE CONFINED TO THE ALIGNMENT OF THE EXISTING ASPHALT.

SWPPP NOTES

1. CONSTRUCTION ACTIVITY AND SEQUENCE OF MAJOR ACTIVITIES SHALL CONSIST OF CLEARING, GRUBBING AND DEMUCKING THE SITE PRIOR TO FILLING THE SITE AND CONSTRUCTION.
2. APPROXIMATELY 1.40 ACRES WILL BE DISTURBED DURING CONSTRUCTION.
3. THE SILT FENCE SHALL BE INSTALLED ALONG PATH OF THE PROPPOSED WALKWAY/ PATH BETWEEN THE CONSTRUCTION AREA AND THE ADJACENT WETLANDS PRIOR TO ANY CONSTRUCTION ACTIVITIES AND SHALL REMAIN IN PLACE UNTIL SUCH TIME THAT THE CONSTRUCTION IS COMPLETED.
4. NO SOLID MATERIALS OR RUNOFF SHALL BE DISCHARGED TO SURFACE WATERS.
5. OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED.
6. MAINTENANCE INSPECTIONS WILL BE CONDUCTED BY THE CONTRACTOR AT A MINIMUM ON A WEEKLY BASIS AND ON DAYS WITH RAIN EVENTS OF 1/2" OR GREATER.
7. POSSIBLE SOURCES OF NON-STORMWATER DISCHARGE MAY INCLUDE WATER USED FOR DUST CONTROL AND TIDAL FLOWS.
8. ANY CONTRACTOR CONDUCTING WORK ON THE SITE SHALL SIGN THE CONTRACTOR CERTIFICATION.
9. FILTER FABRIC SHALL BE USED IN THE CATCH BASINS UNTIL CONSTRUCTION IS COMPLETED AND THE SYSTEM IS READY FOR OPERATION.
10. CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE US ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT, IN PARTICULAR, SEDIMENT AND EROSION CONTROLS AND STORM WATER MANAGEMENT MEASURES SHALL BE STRICTLY FOLLOWED.
11. SITE SPECIFIC SWPPP CONTRACTORS'S APPROVED EROSION CONTROL PLAN IN ACCORDANCE WITH STANDARD SPECIFICATIONS, SECTION 104

PHASING NOTES

1. CONTRACTOR TO ADJUST LIMITS OF SILT FENCE ACCORDING TO THE PHASING OF THE PROJECT.
2. CONTRACTOR RESPONSIBLE TO UPDATE SWPPP AS REQUIRED.

WIND EROSION AND DUST CONTROL BMPS

1. APPROPRIATE DUST CONTROL MEASURES SHOULD BE USED ON ANY SITE WHERE DUST POSES A PROBLEM TO AIR QUALITY. DUST CONTROL IS IMPORTANT TO CONTROL FOR THE HEALTH OF CONSTRUCTION WORKERS AND SURROUNDING WATERBODIES.

ROSANA D. CORDOVA LICENSE No. 41864 STATE OF FLORIDA PROFESSIONAL ENGINEER
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MIAMI-DADE COUNTY ARCHITECTURAL BARRIERS ACT

CORDOVA RODRIGUEZ & ASSOCIATES, INC. CA 27944

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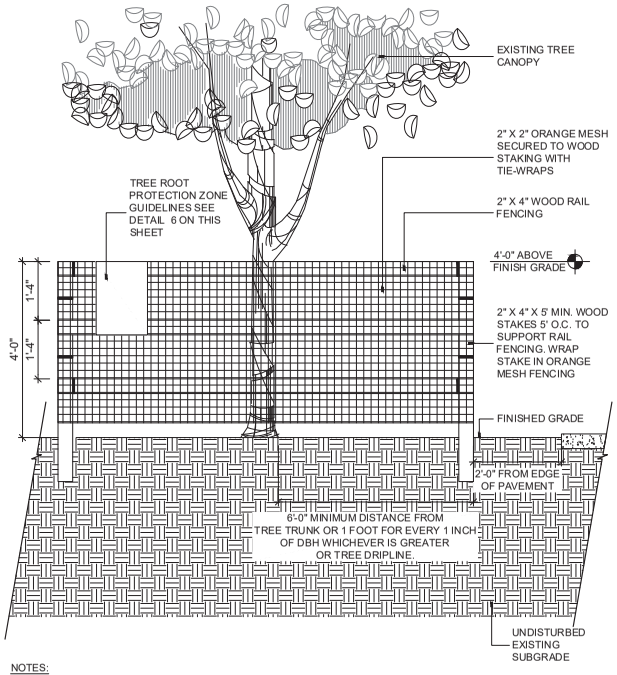

NOTES:

-BARRIER TO BE CONTINUOUS AROUND THE TREE OR GROUP OF TREES.

-THREE ROWS OF RAIL FENCING SPACED EQUALLY TO BE PLACED AROUND ALL EXISTING TREES TO REMAIN.

-CONTRACTOR SHALL TAKE EXTRA CARE DURING EARTHWORK AND UTILITY OPERATIONS TO PROTECT ALL EXISITING TREE AND SHALL BE RESPONSIBLE TO REPLACE ANY TREES DAMAGED DURING CONSTRUCTION.

1 TREE PROTECTION DETAIL

LA-111 SCALE: 3/4"=1'-0"

FOR INFORMATION REGARDING MANGROVE WETLAND PROTECTION PLEASE SEE SHEETS EC-001 - EC-006, AS WELL AS DERM CLASS I PERMIT

2 MANGROVE WETLAND PROTECTION NOTE

LA-111 SCALE: N/A

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTE AND PROTECT THE EXISTING TREES TO REMAIN ON SITE.
2. CONTRACTOR SHALL INSTALL A PERMANENT RIGID BARRIER PRIOR TO COMMENCEMENT OF WORK TO PROTECT THE CANOPY, TRUNK AND OR ROOT SYSTEM FROM DAMAGE.
3. PROTECTION INCLUDES BUT IS NOT LIMITED TO THE PROHIBITION OF THE FOLLOWING ACTIVITIES UNDER THE CANOPY: STORING OF EQUIPMENT, STOCK PILING OF MATERIALS, TRASH OR DEBRIS AND STORING OF TRAILERS, MACHINERY AND OR VEHICLES.
4. PRIOR TO COMMENCEMENT OF ANY WORK, CONTRACTOR SHALL PERFORM ROUTINE MAINTENANCE PER ANSI A300, ON THE EXISTING TREES SHOWN TO REMAIN. THIS INCLUDES REMOVAL OF DEAD/DECAYED WOOD, REMOVAL OF ATTACHED BRANCHES AND STRUCTURALLY UNSOUND LIMBS AS WELL AS REMOVAL OF SUBORDINATED BRANCHES. WHERE INCLUDED BARK IS PRESENT REMOVE BRANCHES AS NEEDED TO INCREASE LIGHT AND AIR PENETRATION WITHIN THE CANOPY. UNDER NO CIRCUMSTANCES SHALL MORE THAT 25% OF ANY CANOPY BE REMOVED IN A TWELVE MONTH PERIOD. REDUCTION OF OVERALL CANOPY SIZE IS PROHIBITED.
5. PER ANSI A300, CONTRACTOR SHALL REMOVE DEAD BRANCHES AND SUCKERS FROM PRESERVED TREES.
6. PER ANSI A300, CONTRACTOR SHALL REMOVE RIPPED, TORN OR "LION TAILED' BRANCHES FROM PRESERVED TREES.
7. PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR UNDER THE DIRECTION OF A CERTIFIED ASCA ARBORIST, SHALL PERFORM AN INTERNAL DECAY SURVEY AND INSPECTION AND PROVIDE A WRITTEN REPORT OF FINDINGS TO THE OWNER'S REPRESENTATIVE. IF IT IS DEEMED NECESSARY TO REMOVE ANY EXISTING TREES THAT ARE NOTED AS "REMAIN," THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR THE APPROPRIATE TREE REMOVAL LICENSE REQUIRED BY LOCAL CODES, LAWS AND OR REGULATIONS.
8. WHERE CONSTRUCTION ACTIVITIES REQUIRE IMPACT TO EXISTING TREE ROOT SYSTEMS, THE CONTRACTOR, UNDER THE GUIDANCE OF AN ASCA ARBORIST, SHALL ROOT PRUNE TREES IN THE IMPACTED AREAS PER ANSI A300 STANDARDS. THE CONTRACTOR, AS WELL AS HIS/HER APPOINTED REGISTERED ASCA ARBORIST, SHALL TAKE ANY AND ALL CUSTOMARY PRECAUTIONS NECESSARY FOR THE SURVIVAL AND CONTINUED VIGOROUS GROWTH OF SAID TREES TO REMAIN.
9. ANY REQUIRED ROOT PRUNING SHALL BE COMPLETED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. UNDER NO CIRCUMSTANCE SHALL THE ROOT SYSTEM BE SUBJECT TO COMPACTION, TEARING, RIPPING OR ANY OTHER DAMAGE EXCEPT CLEAN CUTS AS DESCRIBED IN ANSI A300.
10. TREE SHALL BE ROOT PRUNED IN THIRDS AND RELOCATED 6 MONTHS AFTER INITIAL PRUNING ACTIVITY.
11. IF MORE THAN 25% OF THE TREE ROOT SYSTEM IS IMPACTED FOR ANY REASON (IMPLIED IN THE DRAWINGS OR INCIDENTAL), THE CONTRACTOR SHALL BRACE THE TREE AS DESCRIBED ON THIS SHEET.
12. ANY TREE WITH AN IMPACTED ROOT SYSTEM SHALL BE WATERED DAILY AS DESCRIBED ON THIS SHEET.
13. ALL ACTIVITY UNDER DRIP LINES AND IN THE PROXIMITY OF PRESERVED TREES SHALL BE ACCOMPLISHED BY NON-MECHANICAL METHODS.
14. DISTURBED AREAS SHALL BE MULCHED WITH MATERIALS APPROVED BY NFC.

3 EXISTING TREE NOTES

LA-111 SCALE: N/A

1. PROVIDE 2" X 4" PRESSURE TREATED WOOD BRACES AND STAKES FOR TREES UP TO 6" CALIPER.
2. PROVIDE 4" X 4" PRESSURE TREATED WOOD BRACES AND STAKES FOR TREES OVER 8" CALIPER.
3. PROVIDE THE NUMBER OF BRACE MEMBERS AND ASSOCIATED STAKES PER TREE AS FOLLOWS:

EXISTING TREE CALIPER	NUMBER OF PRESSURE TREATED BRACES AND STAKES
UP TO 4"	THREE
4" TO 8"	FOUR
8" TO 12"	FIVE
12" AND UP	EIGHT

4. ALL BRACING SHALL BE ATTACHED TO STAKE AND BATTENS WITH GALVANIZED WOOD SCREWS.

4 PRESERVED TREE BRACING NOTES

LA-111 SCALE: N/A

1. WATER SHALL BE FREE OF SUBSTANCES HARMFUL TO PLANT GROWTH, OBJECTIONABLE ODOR OR STAINING AGENTS.
2. THE WATER SHALL BE FREE OF DIRT, DEBRIS, POISONS, PESTICIDES, CONTAMINANTS AND ANY OTHER MATERIAL OR COMPOUND THAT IS DETRIMENTAL OR INHIBITS VIGOROUS PLANT HEALTH AND GROWTH.
3. WATER SHALL BE OBTAINED LEGALLY FROM ITS SOURCE. FOR WATER DRAWN FROM CANALS AND OR LAKES, ACCESS THERETO SHALL BE DONE ONLY WITH THE EXPRESS WRITTEN APPROVAL OF THE OWNER OF SAID PROPERTY AND OR APPLICABLE FEDERAL, STATE AND LOCAL LAWS, REGULATIONS, CODES, STANDARDS OR OTHER REGULATORY REQUIREMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE APPROVALS WITHOUT ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL ROUTINELY AND REGULARLY PROVIDE SUFFICIENT SUPPLEMENTAL WATER TO EXISTING TREES IMPACTED BY CONSTRUCTION ACTIVITIES, TO PROVIDE FOR VIGOROUS PLANT HEALTH AND GROWTH.
5. WATER SHALL BE APPLIED AT A RATE OF 50 GALLONS OF WATER PER INCH OF CALIPER PER DAY.

5 TREE WATERING NOTES

LA-111 SCALE: N/A

TREE ROOT PROTECTION ZONE

TO BE POSTED ON TREE PROTECTION FENCE-PROTECTED WITH A PLASTIC COVER

- NO EXCAVATION
- NO STORAGE OF CONSTRUCTION BUILDING MATERIALS OR TRAILERS
- NO SPILLAGE OR DUMPING OF FUEL OR OTHER CHEMICALS OR LIQUIEDS
- NO GRADE CHANGES
- NO EQUIPMENT OPERATION
- NO ENTRANCE INTO ENCLOSURE
- NO TEMPORARY REMOVAL OF ENCLOSURE
- CONTACT PERSON RESPONSIBLE FOR SITE INFORMATION

6 TREE ROOT PROTECTION ZONE GUIDELINES

LA-111 SCALE: N/A

EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

1. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND ERADICATION OF **ALL** EXOTIC PLANTS FROM THE NORTH SIDE OF THE PARK ENTRY ROAD, NORTH TO THE NORTH PARK PROPERTY LINE.
2. AS THIS IS AN EXTREMELY DELICATE ENVIRONMENTALLY SENSITIVE AREA, ANY EQUIPMENT OR MACHINERY THAT MAY IMPACT (AS DEFINED BY DERM/EEL/NFC) NATIVE PLANTS IS STRICTLY PROHIBITED.
3. WOODY PLANTS WITH A CALIPER (AT 6" ABOVE FINISH GRADE) 2" OR LESS SHALL BE REMOVED USING MANUAL METHODS AND SHALL INCLUDE REMOVAL OF TRUNK AND ROOT FLARE. WOODY PLANTS WITH A CALIPER (AT 6" ABOVE FINISH GRADE) GREATER THAN 2" SHALL BE TREATED IN PLACE USING HERBICIDES APPROVED BY DERM/EEL/NFC.
4. SHRUBBY PLANTS SHALL BE REMOVED ENTIRELY, INCLUDING ALL VISIBLE ROOTS, USING MANUAL NON-MECHANICAL METHODS AS DEFINED AND APPROVED BY DERM/EEL/NFC.
5. PRIOR TO THE COMMENCEMENT OF EXOTIC PLANT REMOVAL, DERM BIOLOGISTS ARE AVAILABLE TO ASSIST THE CONTRACTOR IN IDENTIFYING INVASIVE SPECIES ON SITE.
6. PRIOR TO THE START OF WORK DESCRIBED HERE IN AND PRIOR TO EACH TRIMMING/ALTERATION EVENT, ALL EXOTIC PEST PLANT AND NUISANCE SPECIES AS IDENTIFIED IN SECTION 24-49.9 OF THE CODE OF MIAMI DADE COUNTY SHALL BE ERADICATED (KILLED) BY STUMP CUTTING AND TREATING WITH AN APPROPRIATE HERBICIDE (AS DEFINED BY DERM/EEL/NFC). THE PROPERTY SHALL BE MAINTAINED FREE OF EXOTIC PEST PLANT AND NUISANCE SPECIES THROUGHOUT CONSTRUCTION. CUT EXOTIC VEGETATION SHALL BE TREATED WITH AN APPROPRIATE HERBICIDE (AS DEFINED BY DERM/EEL/NFC) WITHIN ONE HOUR OF CUTTING. THE TREATED STUMPS SHALL BE LEFT IN PLACE TO PREVENT DISRUPTION TO SOILS AND TO ALLOW FOR RE-TREATMENT WITH AN HERBICIDE IF NECESSARY. ALL CUT MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN AUTHORIZED LANDFILL.
7. ALL INVASIVE EXOTIC PLANT SPECIES WITHIN THE PROPERTY SHALL BE ERADICATED (KILLED) AND SHALL BE MAINTAINED FREE FROM EXOTIC VEGETATION THROUGHOUT CONSTRUCTION. IF STUMP CUTTING IS PERFORMED, CUT EXOTIC VEGETATION SHALL BE TREATED WITH AN APPROPRIATE HERBICIDE (AS DEFINED AND APPROVED BY DERM/EEL/NFC) WITHIN ONE HOUR OF CUTTING. ALL CUT MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN AUTHORIZED LANDFILL. THIS CONDITION SHALL BE SATISFIED WITHIN 30 DAYS OF PERMIT ISSUANCE.

7 EXOTIC PLANT REMOVAL NOTES

LA-111 SCALE: N/A

100% CONSTRUCTION DOCUMENTS

KEVIN J. OLNEY
LANDSCAPE ARCHITECT
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 - TEL: 305.444.3000

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TREE PROTECTION NOTES & DETAILS

No	Date	Description
		Revisions

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHKD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LT SHEETS.dwg	

CONTRACT No
999999-15-012

LA-111

Sheet
1 of 1

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DWG:L:\Shared\LA\BDS\2007 Matheson Hammock Park Mangrove Trail Improvements 4DC PROG\Sheets\Matheson Hammock LT SHEETS.dwg

PROJECT SCOPE OF WORK

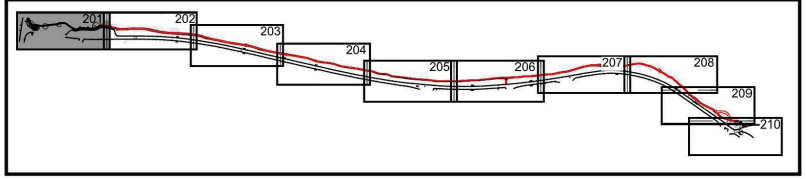
THE PROPOSED BOARDWALK IMPROVEMENT IS A 5'-0" WIDE WOOD STRUCTURE, 4508 FEET LONG, THAT IS ELEVATED, MEANT FOR PEDESTRIAN USE AND SHALL REPLACE THE EXISTING AT GRADE ASPHALT PATHWAY THAT IS INUNDATED WITH SEA WATER FOR EXTENDED PERIODS OF TIME THROUGHOUT THE YEAR AND DURING KING TIDE EVENTS.
THE PROPOSED ELEVATED BOARDWALK **MAINLY** FOLLOWS THE ALIGNMENT OF THE EXISTING PATHWAY. HOWEVER, TO MINIMIZE IMPACTS ON THE ADJACENT WETLAND AREAS AND REDUCE NEGATIVE IMPACTS ON THE MANGROVE HABITAT INCLUDING THE PRESERVATION OF EXISTING TREES, THE WALKWAY WAS SHIFTED BY THE EXISTING PARKING ON THE WEST AND BY THE ROCK ROAD CLOSE TO THE EAST END.
THE BOARDWALK WILL CONNECT THE PARKING LOT AT THE PARK ENTRANCE (NEAR OLD CUTLER ROAD) TO THE RED FISH PARKING AREA. A CONCRETE SLOPED WALKWAY WILL BE PROVIDED AT BOTH ENDS OF THE BOARDWALK TO ACCOMMODATE ADA COMPLIANT ACCESS. BENCHES WILL BE PROVIDED IN KEY POINTS WHERE THE NATURAL CONDITIONS ALLOW FOR A WIDER SECTION OF THE BOARDWALK.
THE PROJECT WILL INCLUDE NEW SIGNAGE. THE EXISTING ASPHALT TRAIL UNDER THE BOARDWALK WILL BE REMOVED. THE EXISTING ASPHALT FROM THE WESTERN END OF THE PROPOSED ELEVATED BOARDWALK, WEST TO THE OLD CUTLER ROAD WILL BE REPLACED WITH A 5'-0" WIDE ASPHALT PATHWAY, 557 FEET LONG, THAT WILL MEANDER BETWEEN THE EXISTING TREES. THE ASPHALT LAYER AND THE SUB-BASE WILL BE REMOVED LEAVING IN PLACE THE EXISTING SUB-GRADE LAYER.

LEGEND

SYMBOL	DESCRIPTION
6.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
2.84	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT
15.60	PROPOSED ASPHALT ELEVATION
FLAG W-60 EL.=3.7'	ENVIRONMENTAL FLAG
	APPROXIMATE EDGE OF ROOT LINE
	WETLAND LINE
	PROPOSED WOOD FENCE
	PROPOSED TEMPORARY TREE PROTECTION FENCE

SHEET KEY

N.T.S.



HARDSCAPE PAVING AND FINISHES LEGEND

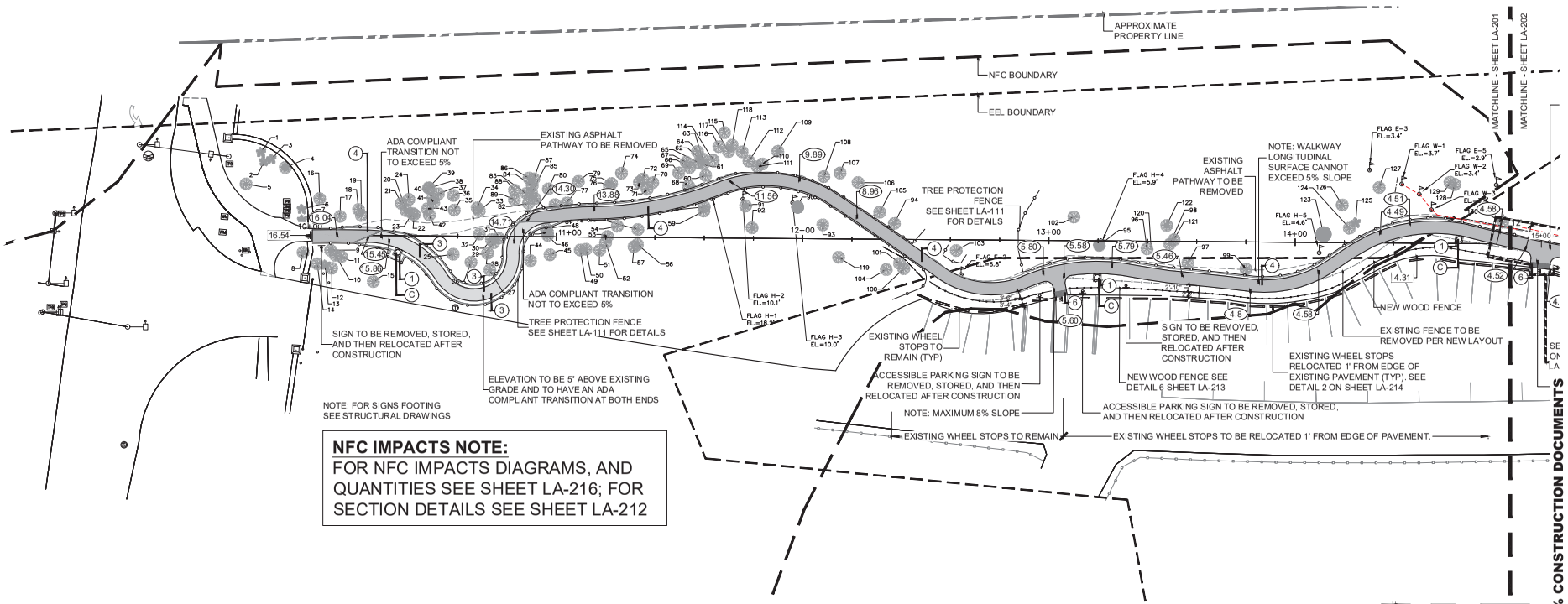
NUMBER	DESCRIPTION
1	CONCRETE SLAB
2	NOT IN USE
3	ASPHALT OVER VIRGIN SOIL
4	ASPHALT PATHWAY
5	BOARDWALK
6	TRUNCATED DOME PAVERS

FOR PAVING SPECIFICATIONS AND INSTALLATION REFERENCE SEE HARDSCAPE PAVING AND FINISHES LEGEND ON LA-211

HARDSCAPE FURNITURE AND MATERIALS LEGEND

LETTER	TYPE
A	WOOD BENCH
B	BOARDWALK GATE
C	LITTER RECEPTACLE

FOR SPECIFICATIONS AND INSTALLATION REFERENCE SEE FULL HARDSCAPE FURNITURE AND MATERIALS LEGEND ON LA-211



NFC IMPACTS NOTE:
FOR NFC IMPACTS DIAGRAMS, AND QUANTITIES SEE SHEET LA-216; FOR SECTION DETAILS SEE SHEET LA-212

100% CONSTRUCTION DOCUMENTS

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TRAIL AND BOARDWALK HARDSCAPE & FURNITURE PLAN

No	Date	Description
Revisions		

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHKD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-201
Sheet
1 of 16

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XREF C:\Shared\LA\DD\2017 Matheson Hammock Park Mangrove Trail Improvements MDC PROJ\Sheets\Matheson Hammock LF SHEETS.dwg

PROJECT SCOPE OF WORK

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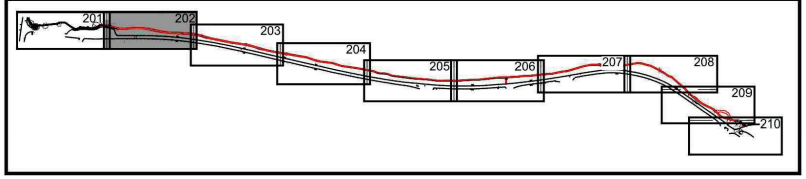
LEGEND

SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
2.84	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT
15.60	PROPOSED ASPHALT ELEVATION
FLAG W-40 EL.=3.7'	ENVIRONMENTAL FLAG
	APPROXIMATE EDGE OF ROOT LINE
	WETLAND LINE
	PROPOSED WOOD FENCE
	PROPOSED TEMPORARY TREE PROTECTION FENCE

SHEET KEY

N.T.S.



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NUMBER	DESCRIPTION
1	CONCRETE SLAB
2	NOT IN USE
3	ASPHALT OVER VIRGIN SOIL
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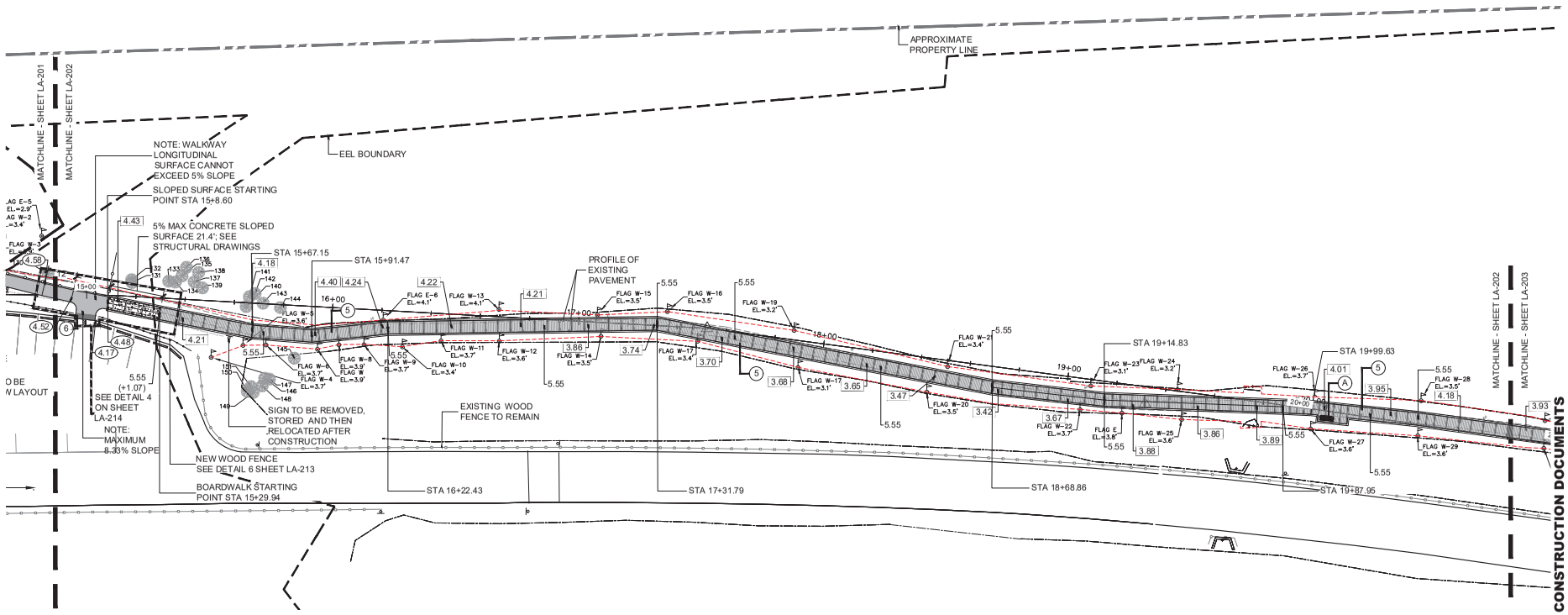
FOR PAVING SPECIFICATIONS AND INSTALLATION REFERENCE SEE HARDSCAPE PAVING AND FINISHES LEGEND ON LA-211

HARDSCAPE FURNITURE AND MATERIALS LEGEND

LETTER	TYPE
A	WOOD BENCH
B	BOARDWALK GATE
C	LITTER RECEPTACLE

FOR SPECIFICATIONS AND INSTALLATION REFERENCE SEE FULL HARDSCAPE FURNITURE AND MATERIALS LEGEND ON LA-211



NORTH
SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

MDC041

KIRK J. OLNEY
LANDSCAPE ARCHITECT
FLA REGISTRATION NO. 6666666
CORAL GABLES, FL 33146 • TEL: 305.444.4000

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TRAIL AND BOARDWALK HARDSCAPE & FURNITURE PLAN

No	Date	Description
		Revisions

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: A S SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-202
Sheet
2 of 16

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MDC042

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THE PROPOSED BOARDWALK IMPROVEMENT IS A 5'-0" WIDE WOOD STRUCTURE, 4508 FEET LONG, THAT IS ELEVATED, MEANT FOR PEDESTRIAN USE AND SHALL REPLACE THE EXISTING AT GRADE ASPHALT PATHWAY THAT IS INUNDATED WITH SEA WATER FOR EXTENDED PERIODS OF TIME THROUGHOUT THE YEAR AND DURING KING TIDE EVENTS.
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LEGEND

SYMBOL	DESCRIPTION
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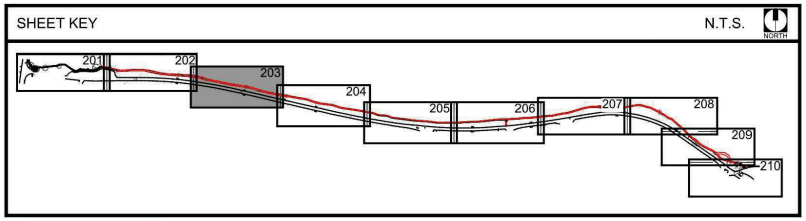
SHEET KEY N.T.S.



HARDSCAPE PAVING AND FINISHES LEGEND

NUMBER	DESCRIPTION
1	CONCRETE SLAB
2	NOT IN USE
3	ASPHALT OVER VIRGIN SOIL
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5	BOARDWALK
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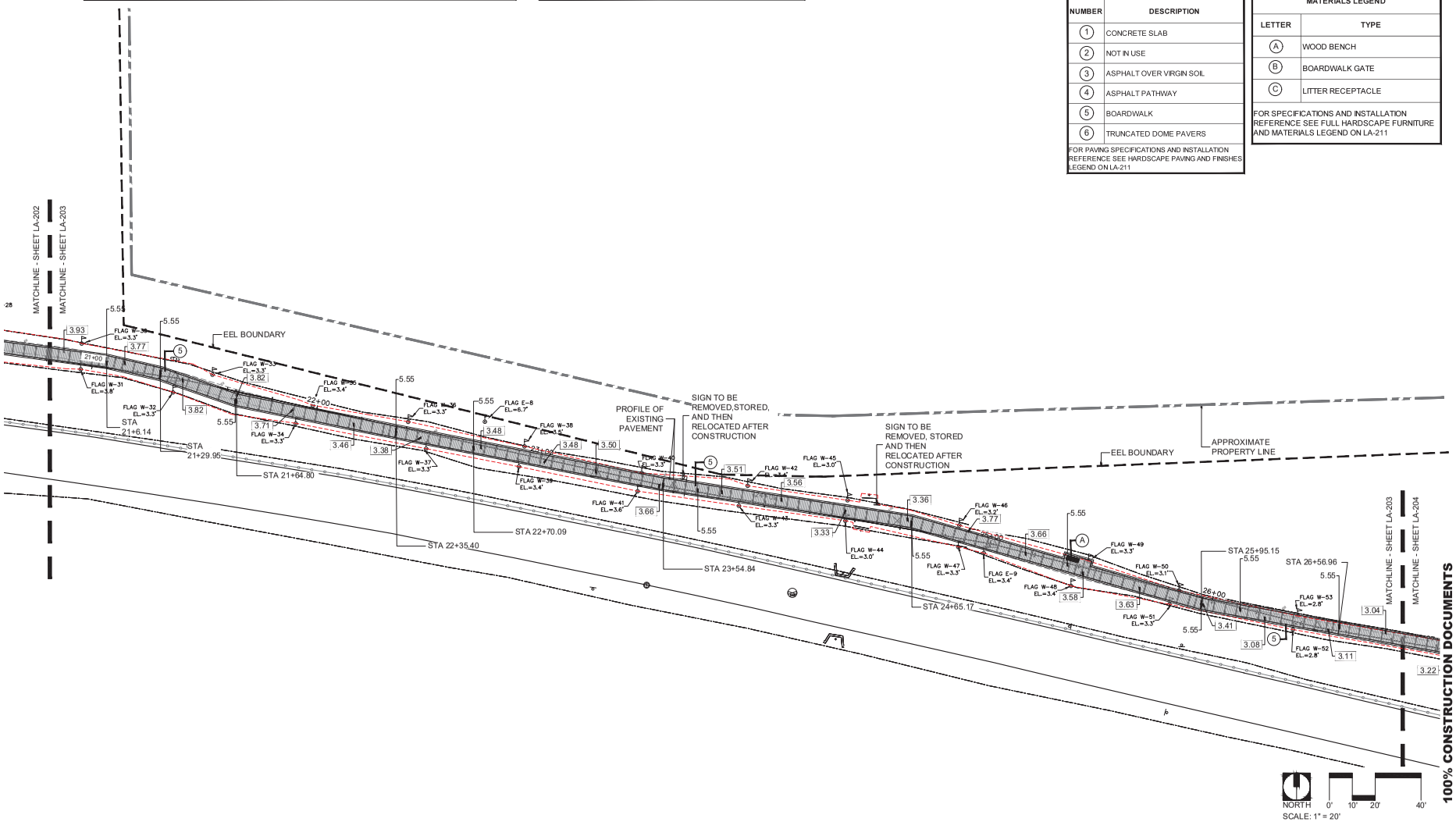
FOR PAVING SPECIFICATIONS AND INSTALLATION REFERENCE SEE HARDSCAPE PAVING AND FINISHES LEGEND ON LA-211

HARDSCAPE FURNITURE AND MATERIALS LEGEND

LETTER	TYPE
A	WOOD BENCH
B	BOARDWALK GATE
C	LITTER RECEPTACLE

FOR SPECIFICATIONS AND INSTALLATION REFERENCE SEE FULL HARDSCAPE FURNITURE AND MATERIALS LEGEND ON LA-211



100% CONSTRUCTION DOCUMENTS

KIRK J. OLNEY
LANDSCAPE ARCHITECT
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 TEL: 305-443-3000

MIAMI-DADE PARKS, RECREATION & OPEN SPACES

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Sheet Title:
TRAIL AND BOARDWALK HARDSCAPE & FURNITURE PLAN

No	Date	Description
Revisions		

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-203
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XREF C:\Shared LA\MDC\2017 Mathesn Hammock Park Mangrove Trail Improvements MDC PROD\Sheets\Matheson Hammock LF SHEETS.dwg

PROJECT SCOPE OF WORK

THE PROPOSED BOARDWALK IMPROVEMENT IS A 5'-0" WIDE WOOD STRUCTURE, 4508 FEET LONG, THAT IS ELEVATED, MEANT FOR PEDESTRIAN USE AND SHALL REPLACE THE EXISTING AT GRADE ASPHALT PATHWAY THAT IS INUNDATED WITH SEA WATER FOR EXTENDED PERIODS OF TIME THROUGHOUT THE YEAR AND DURING KING TIDE EVENTS.
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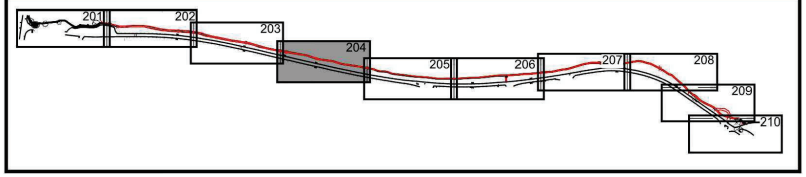
LEGEND

SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
2.84	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT
(5.60)	PROPOSED ASPHALT ELEVATION
FLAG W-00 EL. +3.7'	ENVIRONMENTAL FLAG
	APPROXIMATE EDGE OF ROOT LINE
	WETLAND LINE
	PROPOSED WOOD FENCE
	PROPOSED TEMPORARY TREE PROTECTION FENCE

SHEET KEY

N.T.S.



HARDSCAPE PAVING AND FINISHES LEGEND

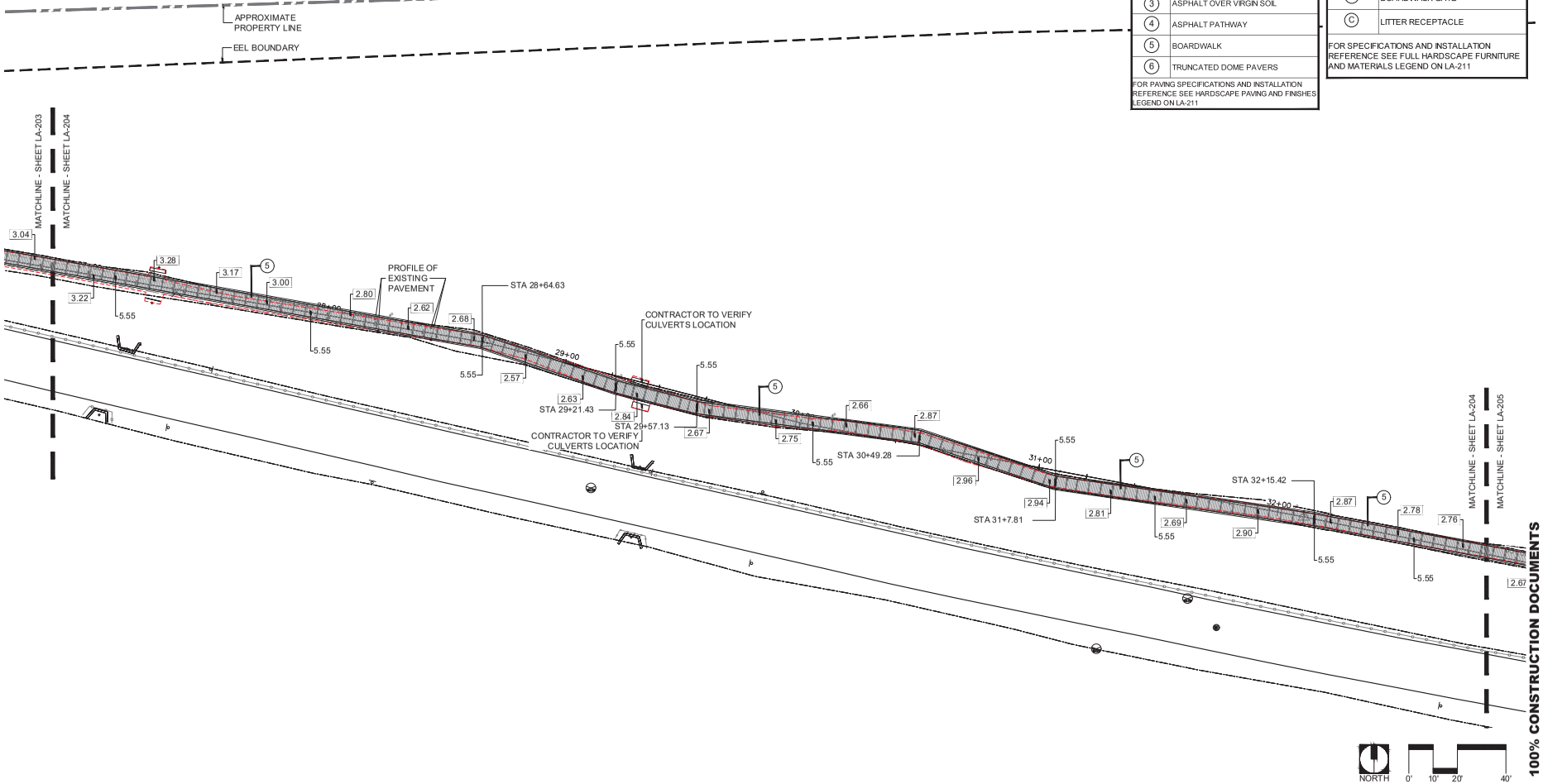
NUMBER	DESCRIPTION
1	CONCRETE SLAB
2	NOT IN USE
3	ASPHALT OVER VIRGIN SOIL
4	ASPHALT PATHWAY
5	BOARDWALK
6	TRUNCATED DOME PAVERS

FOR PAVING SPECIFICATIONS AND INSTALLATION REFERENCE SEE HARDSCAPE PAVING AND FINISHES LEGEND ON LA-211

HARDSCAPE FURNITURE AND MATERIALS LEGEND

LETTER	TYPE
A	WOOD BENCH
B	BOARDWALK GATE
C	LITTER RECEPTACLE

FOR SPECIFICATIONS AND INSTALLATION REFERENCE SEE FULL HARDSCAPE FURNITURE AND MATERIALS LEGEND ON LA-211



100% CONSTRUCTION DOCUMENTS

MDC043

KIRK J. OLNEY
LANDSCAPE ARCHITECT
FLA REG. NO. LA0001667
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 - TEL: 305.444.3000

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TRAIL AND BOARDWALK HARDSCAPE & FURNITURE PLAN

No	Date	Revisions Description

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHKD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-204
Sheet
4 of 16

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XREF:RAM - Hillsboro-Rev 2 [D:\Drive\LA\ADD\2023\Matheson Hammock Park Mangrove Trail Improvements MDC PROJ\ArcPVs\RAM - Hillsboro-Rev 2.dwg]
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XREF:G_Shared [D:\Drive\LA\ADD\2023\ Matheson Hammock Park Mangrove Trail Improvements MDC PROJ\Sheets\Matheson Hammock LF SHEETS.dwg]

MDC044

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LEGEND

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	PROPOSED WOOD FENCE
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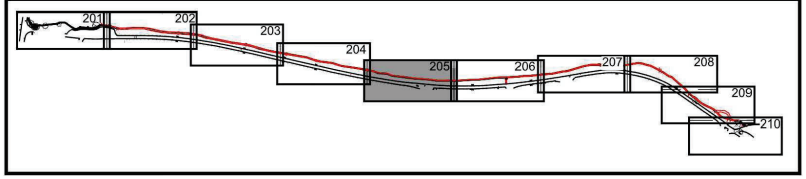
SHEET KEY

N.T.S.



HARDSCAPE PAVING AND FINISHES LEGEND

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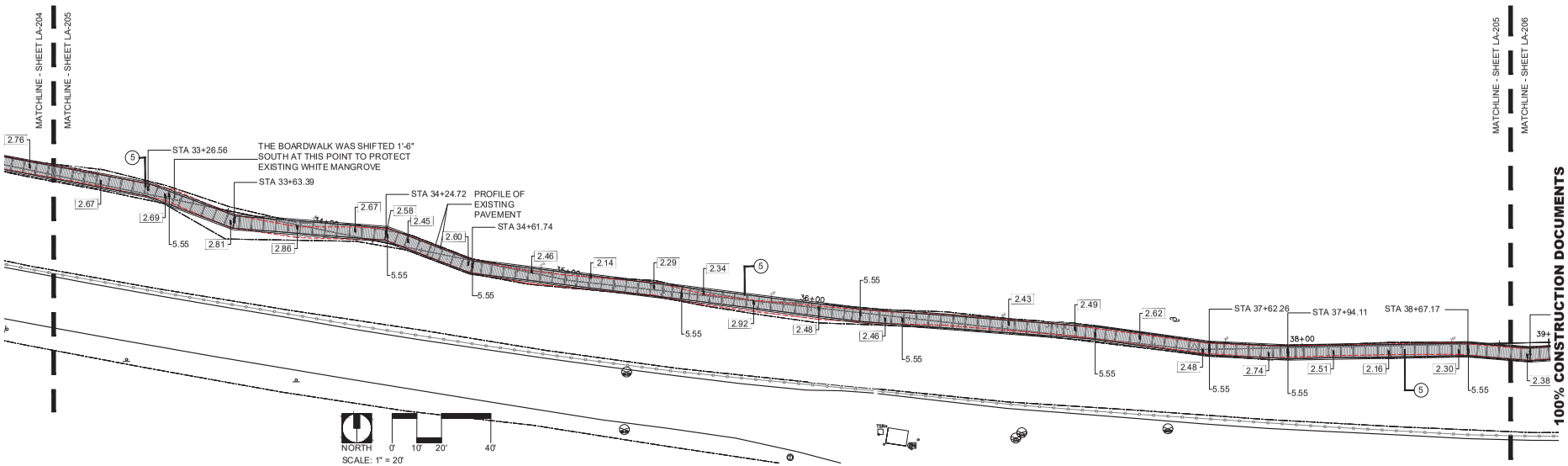
HARDSCAPE FURNITURE AND MATERIALS LEGEND

LETTER	TYPE
A	WOOD BENCH
B	BOARDWALK GATE
C	LITTER RECEPTACLE

FOR SPECIFICATIONS AND INSTALLATION REFERENCE SEE FULL HARDSCAPE FURNITURE AND MATERIALS LEGEND ON LA-211

APPROXIMATE PROPERTY LINE

EEL BOUNDARY



100% CONSTRUCTION DOCUMENTS

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TRAIL AND BOARDWALK HARDSCAPE & FURNITURE PLAN

No	Description	Date
	Revisions	

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-205
Sheet
5 of 16

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XREF:SMM: =title block-Rev 2 [C:\Drives\SJA\DOCUMENTS\Matheson Hammock Park Mangrove Trail Improvements MDC PROG\ArchVA\MM =title block-Rev 2.dwg]
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XREF:LA_Shared:LA-ADD1[2]2017: Matheson Hammock Park Mangrove Trail Improvements MDC PROG\Shared\Matheson Hammock LF SHEETS.dwg

MDC045

PROJECT SCOPE OF WORK

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FLAG W-40 EL. +3.7'	ENVIRONMENTAL FLAG
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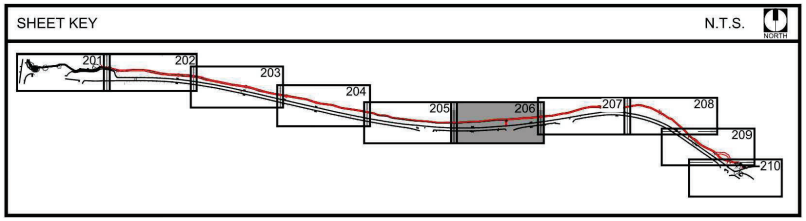
	PROPOSED WOOD FENCE
	PROPOSED TEMPORARY TREE PROTECTION FENCE

SHEET KEY



APPROXIMATE PROPERTY LINE

EEL BOUNDARY

HARDSCAPE PAVING AND FINISHES LEGEND

NUMBER	DESCRIPTION
1	CONCRETE SLAB
2	NOT IN USE
3	ASPHALT OVER VIRGIN SOIL
4	ASPHALT PATHWAY
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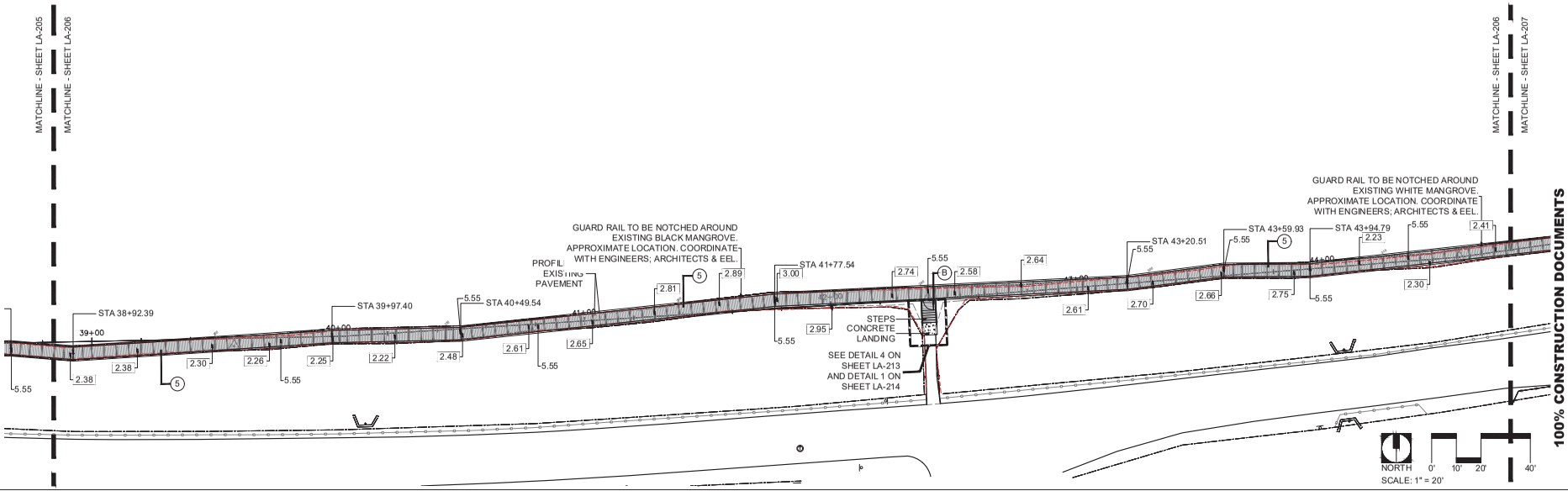
HARDSCAPE FURNITURE AND MATERIALS LEGEND

LETTER	TYPE
A	WOOD BENCH
B	BOARDWALK GATE
C	LITTER RECEPTACLE

FOR SPECIFICATIONS AND INSTALLATION REFERENCE SEE FULL HARDSCAPE FURNITURE AND MATERIALS LEGEND ON LA-211



100% CONSTRUCTION DOCUMENTS

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TRAIL AND BOARDWALK HARDSCAPE & FURNITURE PLAN

No	Date	Description
		Revisions

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-206
Sheet
6 of 16

MDC046

PROJECT SCOPE OF WORK

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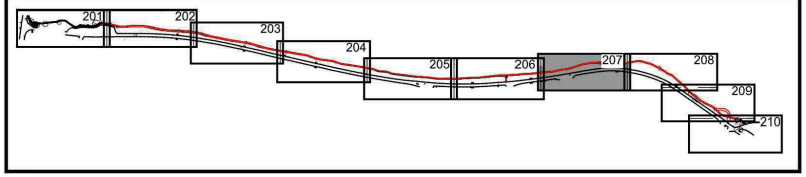
LEGEND

SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
2.84	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT
15.60	PROPOSED ASPHALT ELEVATION
FLAG W-60 EL.=3.7'	ENVIRONMENTAL FLAG
	APPROXIMATE EDGE OF ROOT LINE
	WETLAND LINE
	PROPOSED WOOD FENCE
	PROPOSED TEMPORARY TREE PROTECTION FENCE

SHEET KEY

N.T.S.



HARDSCAPE PAVING AND FINISHES LEGEND

NUMBER	DESCRIPTION
1	CONCRETE SLAB
2	NOT IN USE
3	ASPHALT OVER VIRGIN SOIL
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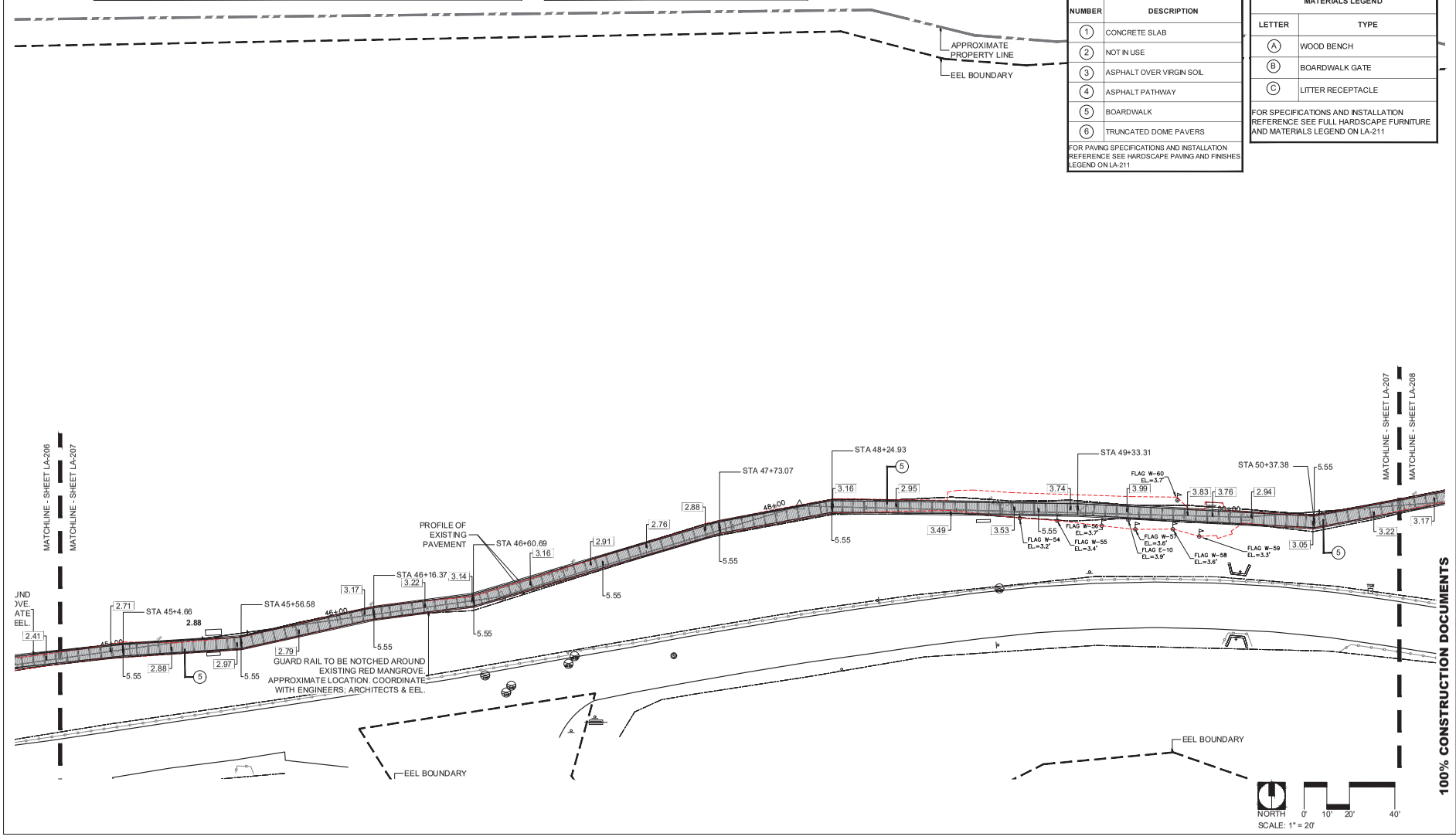
FOR PAVING SPECIFICATIONS AND INSTALLATION REFERENCE SEE HARDSCAPE PAVING AND FINISHES LEGEND ON LA-211

HARDSCAPE FURNITURE AND MATERIALS LEGEND

LETTER	TYPE
A	WOOD BENCH
B	BOARDWALK GATE
C	LITTER RECEPTACLE

FOR SPECIFICATIONS AND INSTALLATION REFERENCE SEE FULL HARDSCAPE FURNITURE AND MATERIALS LEGEND ON LA-211



100% CONSTRUCTION DOCUMENTS

KIRK J. OLNEY
LANDSCAPE ARCHITECT
4711 SOUTH LEJEUNE ROAD
CORAL GABLES FL 33146 TEL: 305-445-2000

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TRAIL AND BOARDWALK HARDSCAPE & FURNITURE PLAN

No	Date	Description
Revisions		

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: A S SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-207
Sheet
7 of 16

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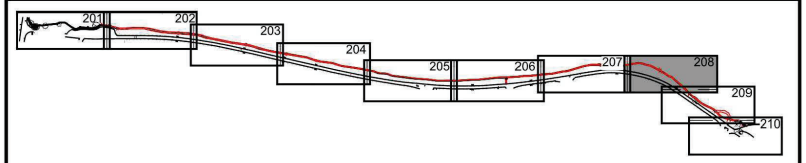

HARDSCAPE PAVING AND FINISHES LEGEND

NUMBER	DESCRIPTION
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HARDSCAPE FURNITURE AND MATERIALS LEGEND

LETTER	TYPE
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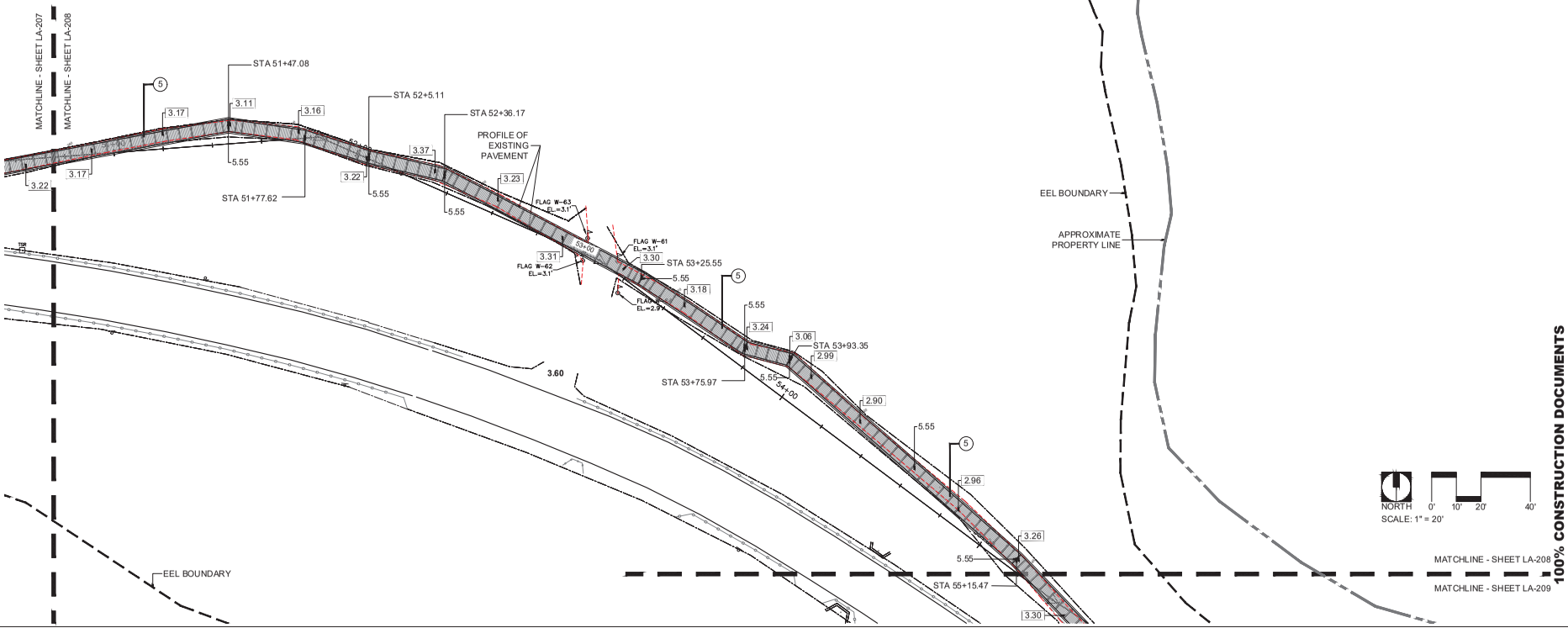

100% CONSTRUCTION DOCUMENTS

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No	Date	Description
		Revisions

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DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: A.S SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-208
Sheet
8 of 16

MDC047

XREF[-A-ARCH-BASE Matheson (...)\ArchVA\A-ARCH-BASE Matheson.dwg]
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XREF[-S-STRUCTURAL Matheson (...)\ArchVA\S-STRUCTURAL Matheson.dwg]
XREF[-SHM - =title block (...)\ArchVA\SHM - =title block.dwg]
XREF[-LF SHEETS (...)\Desktop\LA\ADD\2023 Matheson Hammock Park Mangrove Trail Improvements MDC PROD\Sheets\Matheson Hammock LF SHEETS.dwg]

PROJECT SCOPE OF WORK

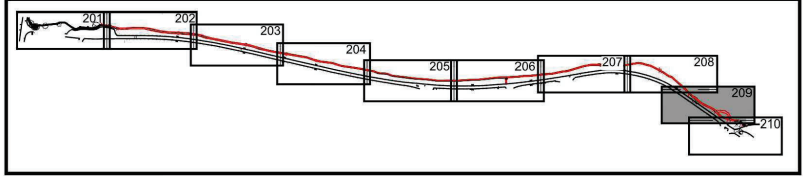
THE PROPOSED BOARDWALK IMPROVEMENT IS A 5'-0" WIDE WOOD STRUCTURE, 4508 FEET LONG, THAT IS ELEVATED, MEANT FOR PEDESTRIAN USE AND SHALL REPLACE THE EXISTING AT GRADE ASPHALT PATHWAY THAT IS INUNDATED WITH SEA WATER FOR EXTENDED PERIODS OF TIME THROUGHOUT THE YEAR AND DURING KING TIDE EVENTS.
THE PROPOSED ELEVATED BOARDWALK **MAINLY** FOLLOWS THE ALIGNMENT OF THE EXISTING PATHWAY. HOWEVER, TO MINIMIZE IMPACTS ON THE ADJACENT WETLAND AREAS AND REDUCE NEGATIVE IMPACTS ON THE MANGROVE HABITAT INCLUDING THE PRESERVATION OF EXISTING TREES, THE WALKWAY WAS SHIFTED BY THE EXISTING PARKING ON THE WEST AND BY THE ROCK ROAD CLOSE TO THE EAST END.
THE BOARDWALK WILL CONNECT THE PARKING LOT AT THE PARK ENTRANCE (NEAR OLD CUTLER ROAD) TO THE RED FISH PARKING AREA. A CONCRETE SLOPED WALKWAY WILL BE PROVIDED AT BOTH ENDS OF THE BOARDWALK TO ACCOMMODATE ADA COMPLIANT ACCESS. BENCHES WILL BE PROVIDED IN KEY POINTS WHERE THE NATURAL CONDITIONS ALLOW FOR A WIDER SECTION OF THE BOARDWALK.
THE PROJECT WILL INCLUDE NEW SIGNAGE. THE EXISTING ASPHALT TRAIL UNDER THE BOARDWALK WILL BE REMOVED. THE EXISTING ASPHALT FROM THE WESTERN END OF THE PROPOSED ELEVATED BOARDWALK, WEST TO THE OLD CUTLER ROAD WILL BE REPLACED WITH A 5'-0" WIDE ASPHALT PATHWAY, 557 FEET LONG, THAT WILL MEANDER BETWEEN THE EXISTING TREES. THE ASPHALT LAYER AND THE SUB-BASE WILL BE REMOVED LEAVING IN PLACE THE EXISTING SUB-GRADE LAYER.

LEGEND

SYMBOL	DESCRIPTION
6.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
2.84	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT
15.60	PROPOSED ASPHALT ELEVATION
FLAG W-40 EL.=3.7'	ENVIRONMENTAL FLAG
	APPROXIMATE EDGE OF ROOT LINE
	WETLAND LINE
	PROPOSED WOOD FENCE
	PROPOSED TEMPORARY TREE PROTECTION FENCE

SHEET KEY

N.T.S.



HARDSCAPE PAVING AND FINISHES LEGEND

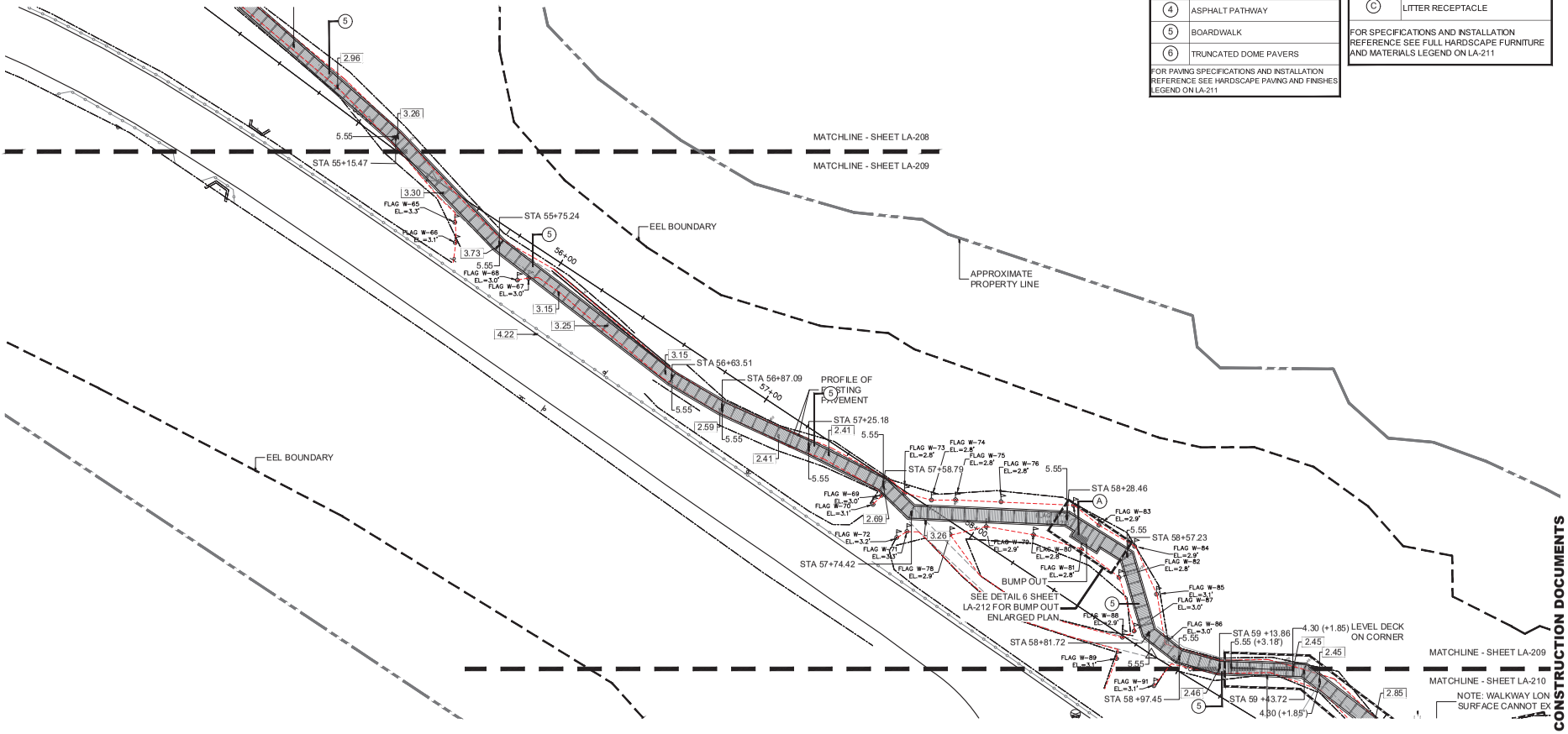
NUMBER	DESCRIPTION
1	CONCRETE SLAB
2	NOT IN USE
3	ASPHALT OVER VIRGIN SOIL
4	ASPHALT PATHWAY
5	BOARDWALK
6	TRUNCATED DOME PAVERS

FOR PAVING SPECIFICATIONS AND INSTALLATION REFERENCE SEE HARDSCAPE PAVING AND FINISHES LEGEND ON LA-211

HARDSCAPE FURNITURE AND MATERIALS LEGEND

LETTER	TYPE
A	WOOD BENCH
B	BOARDWALK GATE
C	LITTER RECEPTACLE

FOR SPECIFICATIONS AND INSTALLATION REFERENCE SEE FULL HARDSCAPE FURNITURE AND MATERIALS LEGEND ON LA-211



NORTH
SCALE: 1" = 20'
0' 10' 20' 40'

100% CONSTRUCTION DOCUMENTS

MDC048

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TRAIL AND BOARDWALK HARDSCAPE & FURNITURE PLAN

No	Date	Description
		Revisions

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-209
Sheet
9 of 16

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XREF RMM - Hillsboro-Rev 2 [T]_L:\ArchVA\LA\02-(2023) Mathesn Hammock Park Mangrove Trail Improvements MDC PROG\ArchVA\RMM - Hillsboro-Rev 2.dwg]
XREF C:\LA\02-(2023) Mathesn Hammock Park Mangrove Trail Improvements MDC PROG\Sheets\Mathesn Hammock LF SHEETS.dwg]
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XREF C:\Shared LA\02-(2023) Mathesn Hammock Park Mangrove Trail Improvements MDC PROG\Sheets\Mathesn Hammock LF SHEETS.dwg

PROJECT SCOPE OF WORK

THE PROPOSED BOARDWALK IMPROVEMENT IS A 5'-0" WIDE WOOD STRUCTURE, 4508 FEET LONG, THAT IS ELEVATED, MEANT FOR PEDESTRIAN USE AND SHALL REPLACE THE EXISTING AT GRADE ASPHALT PATHWAY THAT IS INUNDATED WITH SEA WATER FOR EXTENDED PERIODS OF TIME THROUGHOUT THE YEAR AND DURING KING TIDE EVENTS.
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LEGEND

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44+00	STATION POINT
2.84	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT
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FLAG W-00 EL.=3.7'	ENVIRONMENTAL FLAG
	APPROXIMATE EDGE OF ROOT LINE
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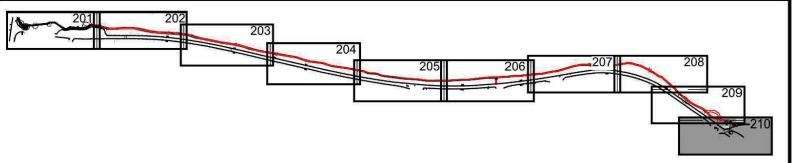

HARDSCAPE PAVING AND FINISHES LEGEND

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2	NOT IN USE
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HARDSCAPE FURNITURE AND MATERIALS LEGEND

LETTER	TYPE
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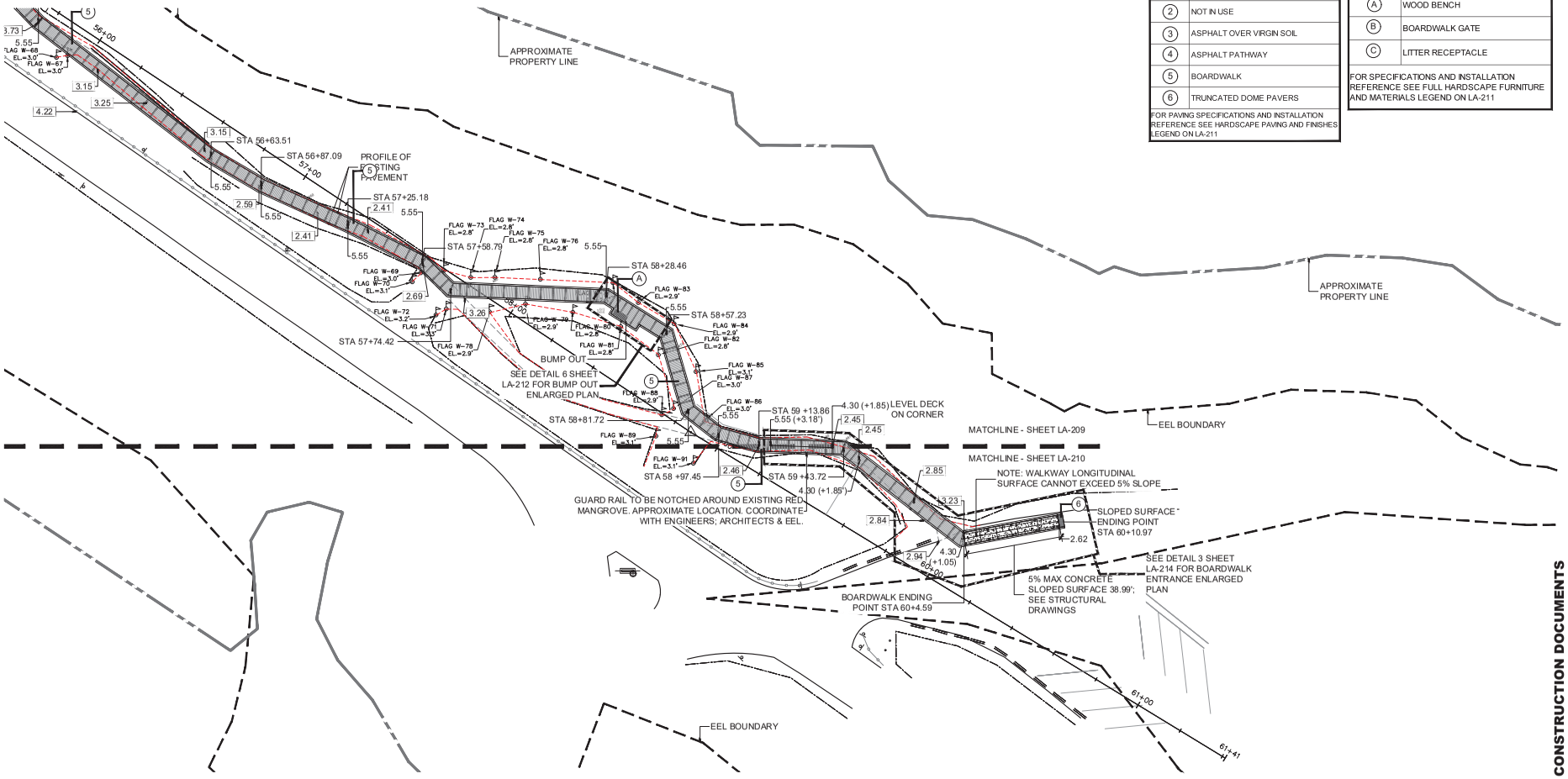
FOR SPECIFICATIONS AND INSTALLATION REFERENCE SEE FULL HARDSCAPE FURNITURE AND MATERIALS LEGEND ON LA-211



NORTH
SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

MDC049

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
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No	Date	Revisions Description

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-210
Sheet
10 of 16

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XREF[-A-LA-TBLK Matheson (...\ArchV\A-LA-TBLK Matheson.dwg]
XREF[-A-LA-TBLK Matheson-Rev 1 (...\ArchV\A-LA-TBLK Matheson-Rev 1.dwg]
XREF[-A-LA-TBLK Matheson-Rev 2 (...\ArchV\A-LA-TBLK Matheson-Rev 2.dwg]
XREF[-SHM - Hibiscus (...\ArchV\LA\ADD\2023\Matheson Hammock Park Mangrove Trail Improvements MDC PROG\VwPs\VpMid - Hibiscus.dwg]
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XREF[-SHM - Hibiscus-Rev 2 (...\ArchV\LA\ADD\2023\Matheson Hammock Park Mangrove Trail Improvements MDC PROG\VwPs\VpMid - Hibiscus-Rev 2.dwg]
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XREF[-Shared (...\Shared\LA\ADD\2023\Matheson Hammock Park Mangrove Trail Improvements MDC PROG\Sheets\Matheson Hammock LF SHEETS.dwg]

NUMBER	DESCRIPTION	SPECIFICATION	REFERENCE SHEET FOR DETAILS	NOTES	CONTACT
1	CONCRETE SLAB	CONCRETE HEAVY BROOM FINISH	SEE DETAIL 1 ON SHEET LA-212	FOR TRASH RECEPTACLE PADS. COLOR TO BE STANDARD GRAY.	
2	NOT IN USE	NOT IN USE	NOT IN USE	NOT IN USE	
3	ASPHALT OVER VIRGIN SOIL	1" ASPHALT ON NEW LIGHTLY COMPACTED BASE	SEE DETAIL 10 ON SHEET LA-212	SEE LA-201 TO LA-210 FOR LOCATIONS	
4	ASPHALT PATHWAY	1" ASPHALT ON EXISTING COMPACTED BASE	SEE DETAIL 9 ON SHEET LA-212	SEE LA-201 TO LA-210 FOR LOCATIONS	
5	BOARDWALK	DECKING AND GUARDRAILS TO BE PRESSURE TREATED WOOD	SEE DETAILS 1, 2, 3, AND 4 ON SHEET LA-213 AND DETAIL 1 ON SHEET LA-214	SEE LA-201 TO LA-210 FOR LOCATIONS	
6	TRUNCATED DOME PAVERS	12" X 12" X 1 5/8" THICKNESS TRUNCATED DOME PAVERS DOUBLE SOLDIER COURSE BY ARTISTIC PAVERS	SEE DETAIL 5 ON SHEET LA-213	COLOR: CHARCOAL	ARTISTIC PAVERS MFG. RICARDO VAZQUEZ 305-986-9152 WWW.ARTISTICPAVERS.COM

1 LA-211 HARDSCAPE PAVING AND FINISHES LEGEND

SCALE: N/A

PROJECT SCOPE OF WORK

THE PROPOSED BOARDWALK IMPROVEMENT IS A 5'-0" WIDE WOOD STRUCTURE, 4508 FEET LONG, THAT IS ELEVATED, MEANT FOR PEDESTRIAN USE AND SHALL REPLACE THE EXISTING AT GRADE ASPHALT PATHWAY THAT IS INUNDATED WITH SEA WATER FOR EXTENDED PERIODS OF TIME THROUGHOUT THE YEAR AND DURING KING TIDE EVENTS.
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EXOTIC PLANT REMOVAL NOTES, SPECIFICATIONS AND REQUIREMENTS:

1. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND ERADICATION OF **ALL** EXOTIC PLANTS FROM THE NORTH SIDE OF THE PARK ENTRY ROAD, NORTH TO THE NORTH PARK PROPERTY LINE.
2. AS THIS IS AN EXTREMELY DELICATE ENVIRONMENTALLY SENSITIVE AREA, ANY EQUIPMENT OR MACHINERY THAT MAY IMPACT (AS DEFINED BY DERM/EEL/NFC) NATIVE PLANTS IS STRICTLY PROHIBITED.
3. WOODY PLANTS WITH A CALIPER (AT 6" ABOVE FINISH GRADE) 2" OR LESS SHALL BE REMOVED USING MANUAL METHODS AND SHALL INCLUDE REMOVAL OF TRUNK AND ROOT FLARE. WOODY PLANTS WITH A CALIPER (AT 6" ABOVE FINISH GRADE) GREATER THAN 2" SHALL BE TREATED IN PLACE USING HERBICIDES APPROVED BY DERM/EEL/NFC.
4. SHRUBBY PLANTS SHALL BE REMOVED ENTIRELY, INCLUDING ALL VISIBLE ROOTS, USING MANUAL NON-MECHANICAL METHODS AS DEFINED AND APPROVED BY DERM/EEL/NFC.
5. PRIOR TO THE COMMENCEMENT OF EXOTIC PLANT REMOVAL, DERM BIOLOGISTS ARE AVAILABLE TO ASSIST THE CONTRACTOR IN IDENTIFYING INVASIVE SPECIES ON SITE.
6. PRIOR TO THE START OF WORK DESCRIBED HERE IN AND PRIOR TO EACH TRIMMING/ALTERATION EVENT, ALL EXOTIC PEST PLANT AND NUISANCE SPECIES AS IDENTIFIED IN SECTION 24-49.9 OF THE CODE OF MIAMI DADE COUNTY SHALL BE ERADICATED (KILLED) BY STUMP CUTTING AND TREATING WITH AN APPROPRIATE HERBICIDE (AS DEFINED BY DERM/EEL/NFC). THE PROPERTY SHALL BE MAINTAINED FREE OF EXOTIC PEST PLANT AND NUISANCE SPECIES THROUGHOUT CONSTRUCTION. CUT EXOTIC VEGETATION SHALL BE TREATED WITH AN APPROPRIATE HERBICIDE (AS DEFINED BY DERM/EEL/NFC) WITHIN ONE HOUR OF CUTTING. THE TREATED STUMPS SHALL BE LEFT IN PLACE TO PREVENT DISRUPTION TO SOILS AND TO ALLOW FOR RE-TREATMENT WITH AN HERBICIDE IF NECESSARY. ALL CUT MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN AUTHORIZED LANDFILL.
7. ALL INVASIVE EXOTIC PLANT SPECIES WITHIN THE PROPERTY SHALL BE ERADICATED (KILLED) AND SHALL BE MAINTAINED FREE FROM EXOTIC VEGETATION THROUGHOUT CONSTRUCTION. IF STUMP CUTTING IS PERFORMED, CUT EXOTIC VEGETATION SHALL BE TREATED WITH AN APPROPRIATE HERBICIDE (AS DEFINED AND APPROVED BY DERM/EEL/NFC) WITHIN ONE HOUR OF CUTTING. ALL CUT MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN AN AUTHORIZED LANDFILL. THIS CONDITION SHALL BE SATISFIED WITHIN 30 DAYS OF PERMIT ISSUANCE.

LETTER	TYPE	SPECIFICATIONS	NOTES	REFERENCE SHEET FOR DETAILS	COLOR / FINISH	CONTACT
A	WOOD BENCH	ADA BENCH JACKSON PARK SETTEE DIMENSIONS: 69"L x 24"D x 32"H. SEAT HEIGHT 17" . ARM HEIGHT 24"	JACKSON PARK SETTEE #4669 SURFACE MOUNT; USE STAINLESS STEEL ANGLE BRACKETS ON EACH LEG BACKSIDE: INSTALLATION PER MFG. SPECIFICATIONS AND LOCAL BUILDING CODE	SEE IMAGE 5 AND DETAIL 7 ON SHEET LA-212	TEAK WOOD	WEATHEREND WOOD FURNITURE PATRICIA JOHNSON 207-596-6483 PJOHNSON@WEATHEREND.COM WWW.WEATHEREND.COM
B	BOARDWALK GATE	4'-0" WIDE, PRESSURE TREATED WOODEN GATE	TO BE INTEGRATED WITH BOARDWALK RAILING TO LOOK SEAMLESS	SEE DETAIL 3 ON SHEET LA-213	PRESSURE TREATED WOOD	
C	LITTER RECEPTACLE	LITTER RECEPTACLE 44-40PL SERIES BY DUMOR.	SURFACE MOUNT. INSTALLATION PER MFG. SPECIFICATIONS AND FLORIDA BUILDING CODE	SEE IMAGE 8 ON SHEET LA-213	IPE WOOD FINISH	REP SERVICES DEAN HILL 407-831-9658 x 308 WWW.DUMOR.COM

2 LA-211 HARDSCAPE FURNITURE AND MATERIALS LEGEND

SCALE: N/A

100% CONSTRUCTION DOCUMENTS

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
HARDSCAPE PAVING & FINISHES AND FURNITURE & MATERIALS LEGEND

No	Date	Description
Revisions		

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHKD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: A S SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No 999999-15-012

LA-211

Sheet 11 of 16

MDC050

XREF:A-ARI-A-BASE Matheson [..\ArchV\A-ARI-A-BASE Matheson.dwg]
XREF:A-LA-TBLK Matheson [..\ArchV\A-LA-TBLK Matheson.dwg]
XREF:A-LA-TBLK Matheson-Rev 2 [D:\Dsktop\LA\2021\2021-07 Matheson Hammock Park Mangrove Trail Improvements MDC PROJ\ArchV\A-LA-TBLK Matheson-Rev 2.dwg]
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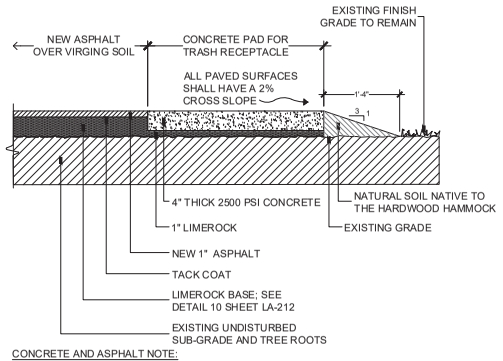
MDC051

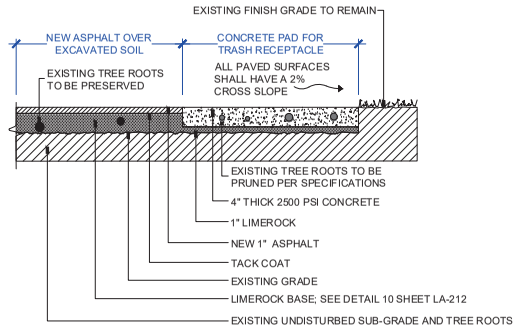


CONCRETE AND ASPHALT NOTE:

WATER SHALL FLOW FREELY FROM SURFACE OF ASPHALT AND CONCRETE AND NOT BE IMPEDED BY ADJACENT LANDSCAPE. SLOPE ADJACENT FINISH GRADE

1 LA-212 — TRASH RECEPTACLE CONCRETE PAD OVER VIRGIN SOIL SECTION DETAIL

SCALE: 1"=1'-0"



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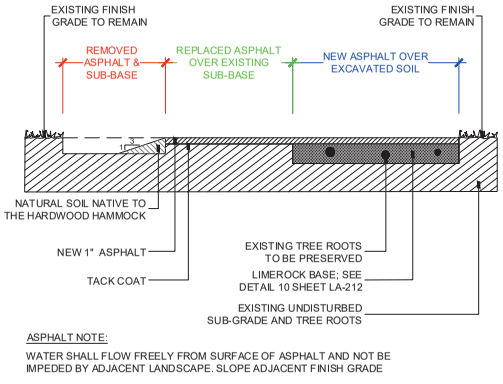
2 LA-212 — TRASH RECEPTACLE CONCRETE OVER EXCAVATED SOIL DETAIL

SCALE: 1"=1'-0"



ASPHALT NOTE:

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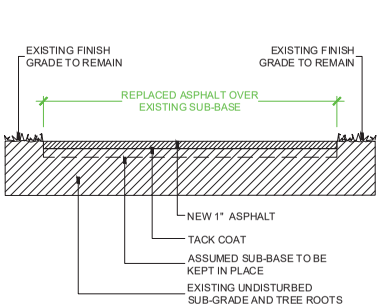
3 LA-212 — ASPHALT OVER UNDISTUREBED AND EXCAVATED SOIL SECTION DETAIL

SCALE:



ASPHALT NOTE:

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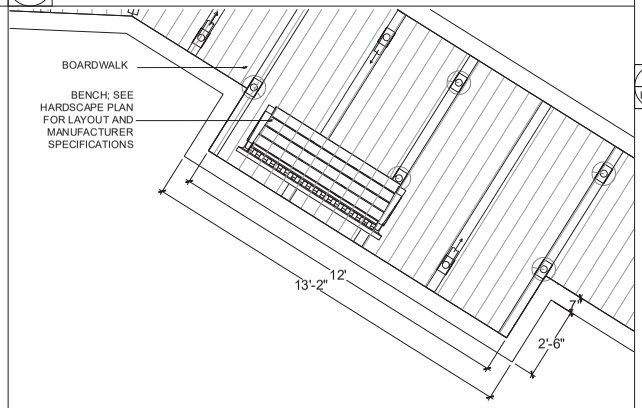
4 LA-212 — ASPHALT OVER EXISTING SUB-GRADE SECTION DETAIL

SCALE:

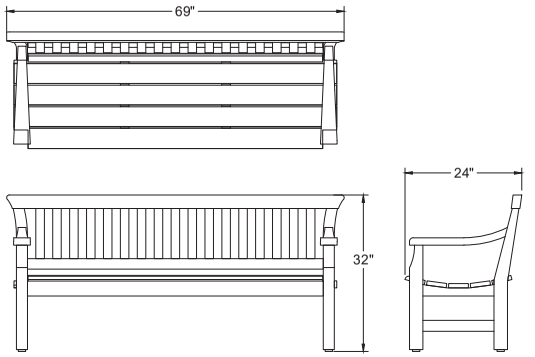
5 LA-212 — ITEM A: BENCH

SCALE: N/A



6 LA-212 — BOARDWALK BUMP OUT

SCALE: 1/2" = 1'-0"



7 LA-212 — BENCH DETAIL

SCALE: 1" = 1'-0"

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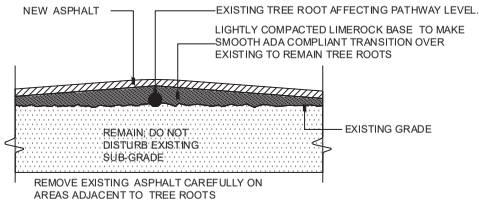
THE PROPOSED ELEVATED BOARDWALK **MAINLY** FOLLOWS THE ALIGNMENT OF THE EXISTING PATHWAY. HOWEVER, TO MINIMIZE IMPACTS ON THE ADJACENT WETLAND AREAS AND REDUCE NEGATIVE IMPACTS ON THE MANGROVE HABITAT INCLUDING THE PRESERVATION OF EXISTING TREES, THE WALKWAY WAS SHIFTED BY THE EXISTING PARKING ON THE WEST AND BY THE ROCK ROAD CLOSE TO THE EAST END.
THE BOARDWALK WILL CONNECT THE PARKING LOT AT THE PARK ENTRANCE (NEAR OLD CUTLER ROAD) TO THE RED FISH PARKING AREA. A CONCRETE SLOPED WALKWAY WILL BE PROVIDED AT BOTH ENDS OF THE BOARDWALK TO ACCOMMODATE ADA COMPLIANT ACCESS. BENCHES WILL BE PROVIDED IN KEY POINTS WHERE THE NATURAL CONDITIONS ALLOW FOR A WIDER SECTION OF THE BOARDWALK.
THE PROJECT WILL INCLUDE NEW SIGNAGE. THE EXISTING ASPHALT TRAIL UNDER THE BOARDWALK WILL BE REMOVED. THE EXISTING ASPHALT FROM THE THE WESTERN END OF THE PROPOSED ELEVATED BOARDWALK, WEST TO THE OLD CUTLER ROAD WILL BE REPLACED WITH A 5'-0" WIDE ASPHALT PATHWAY, 557 FEET LONG, THAT WILL MEANDER BETWEEN THE EXISTING TREES. THE ASPHALT LAYER AND THE SUB-BASE WILL BE REMOVED LEAVING IN PLACE THE EXISTING SUB-GRADE LAYER.

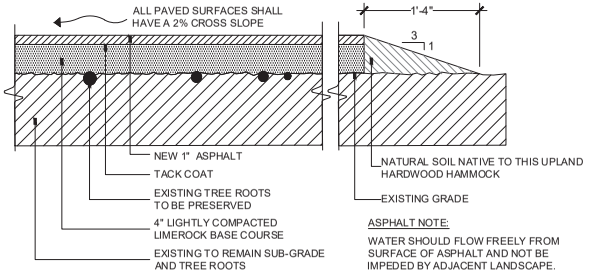
8 LA-212 — PROJECT SCOPE OF WORK

SCALE:



9 LA-212 — ENCOUNTERED TREE ROOTS IN NFC UPLAND AREAS DETAIL

SCALE: 1- 1/2"=1'-0"



ASPHALT NOTE:

WATER SHOULD FLOW FREELY FROM SURFACE OF ASPHALT AND NOT BE IMPEDED BY ADJACENT LANDSCAPE.

10 LA-212 — ASPHALT OVER VIRGIN SOIL SECTION DETAIL

SCALE: 1- 1/2"=1'-0"

100% CONSTRUCTION DOCUMENTS

KERN & GARCIA
LANDSCAPE ARCHITECT
FLA REG 0001078 LA 0001078
CORAL GABLES, FL 33146 - TEL: 305.444.3000

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
HARDSCAPE PAVING AND FURNITURE DETAILS

No	Date	Description
Revisions		

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHK'D BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-212

Sheet
12 of 16

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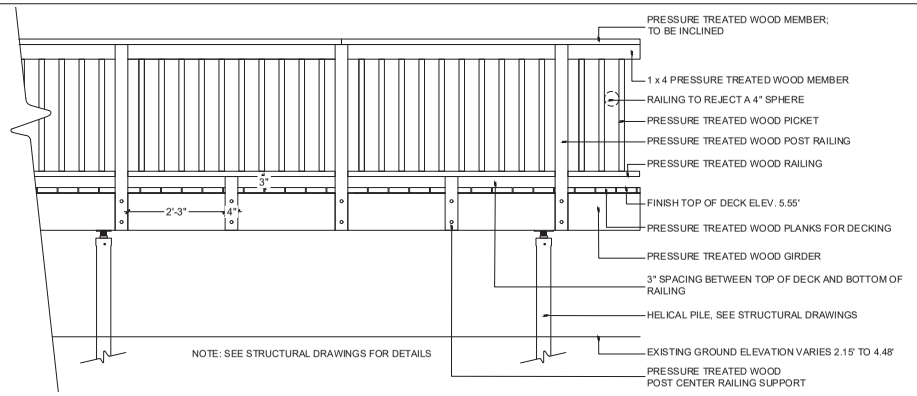
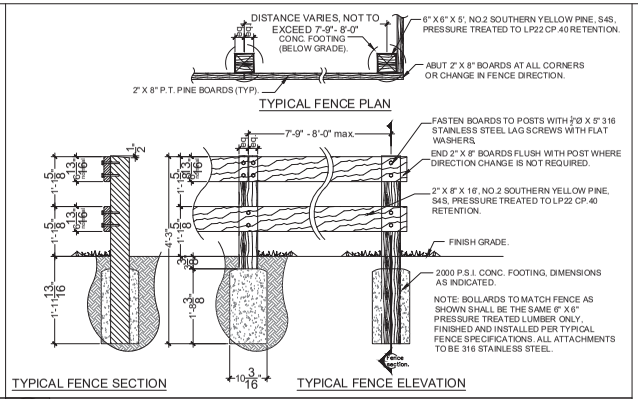
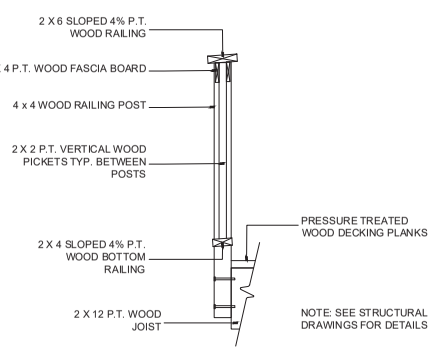
MDC052



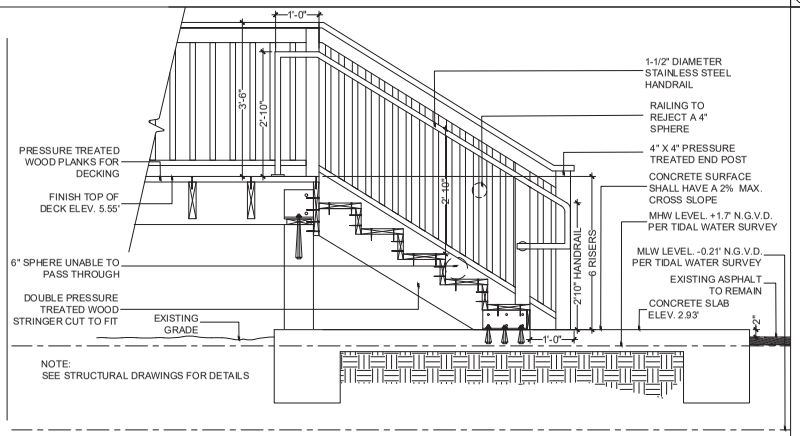
1 BOARDWALK RAILING DETAIL
LA-213 SCALE: 3/4"=1'-0"



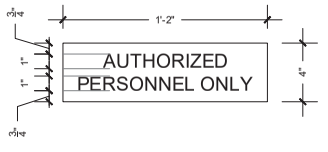
6 WOOD FENCE DETAIL
LA-213 SCALE: 3/4" = 1'-0"



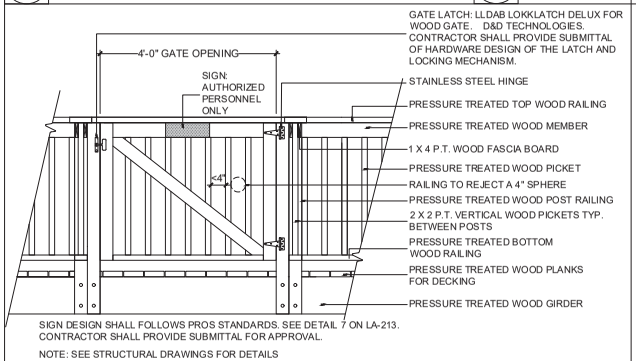
2 INCLINED TOP RAIL SECTION DETAIL
LA-213 SCALE: 1" = 1'-0"



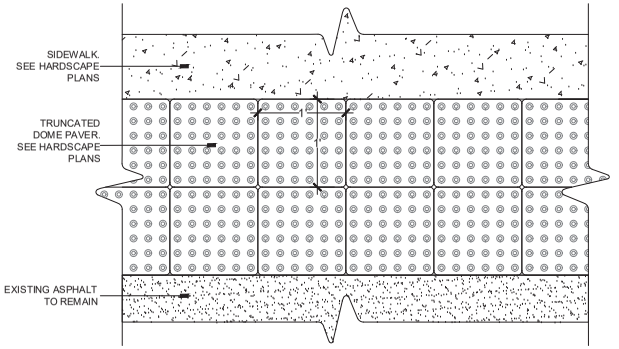
4 STAIRS SECTION DETAIL
LA-213 SCALE: 3/4" = 1'-0"



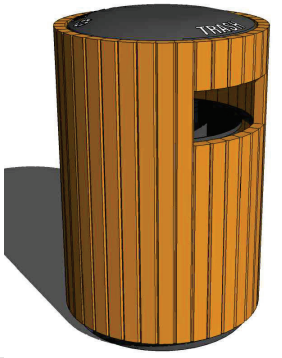
7 SIGN FOR WOOD GATE
LA-213 SCALE: 3"=1'-0"



3 BOARDWALK GATE DETAIL
LA-213 SCALE: 3/4" = 1'-0"



5 TRUNCATED DOME PAVER
LA-213 SCALE: 1-1/2" = 1'-0"



8 TRASH RECEPTACLE
LA-213 SCALE:

100% CONSTRUCTION DOCUMENTS

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
HARDSCAPE PAVING AND FURNITURE DETAILS

No	Description	Date
Revisions		

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-213
Sheet
13 of 16

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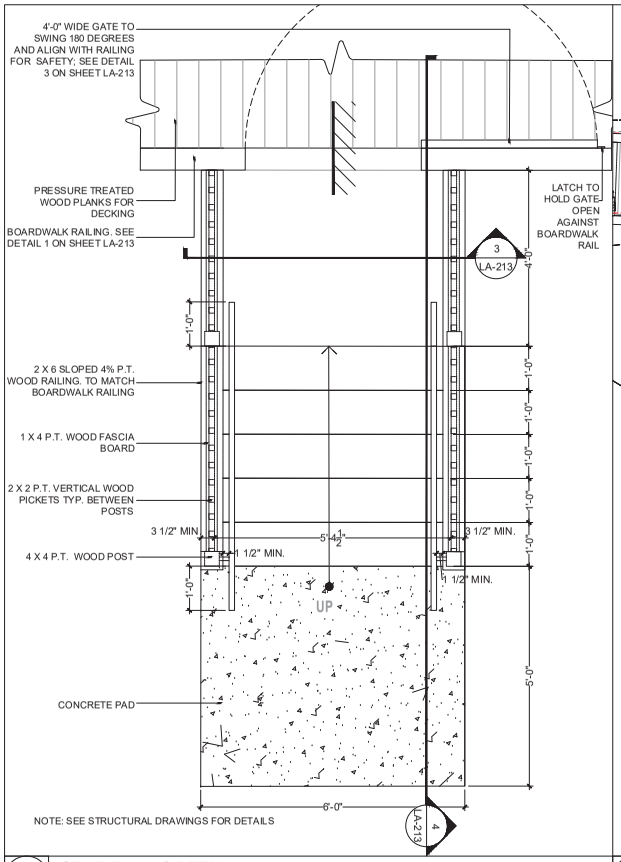
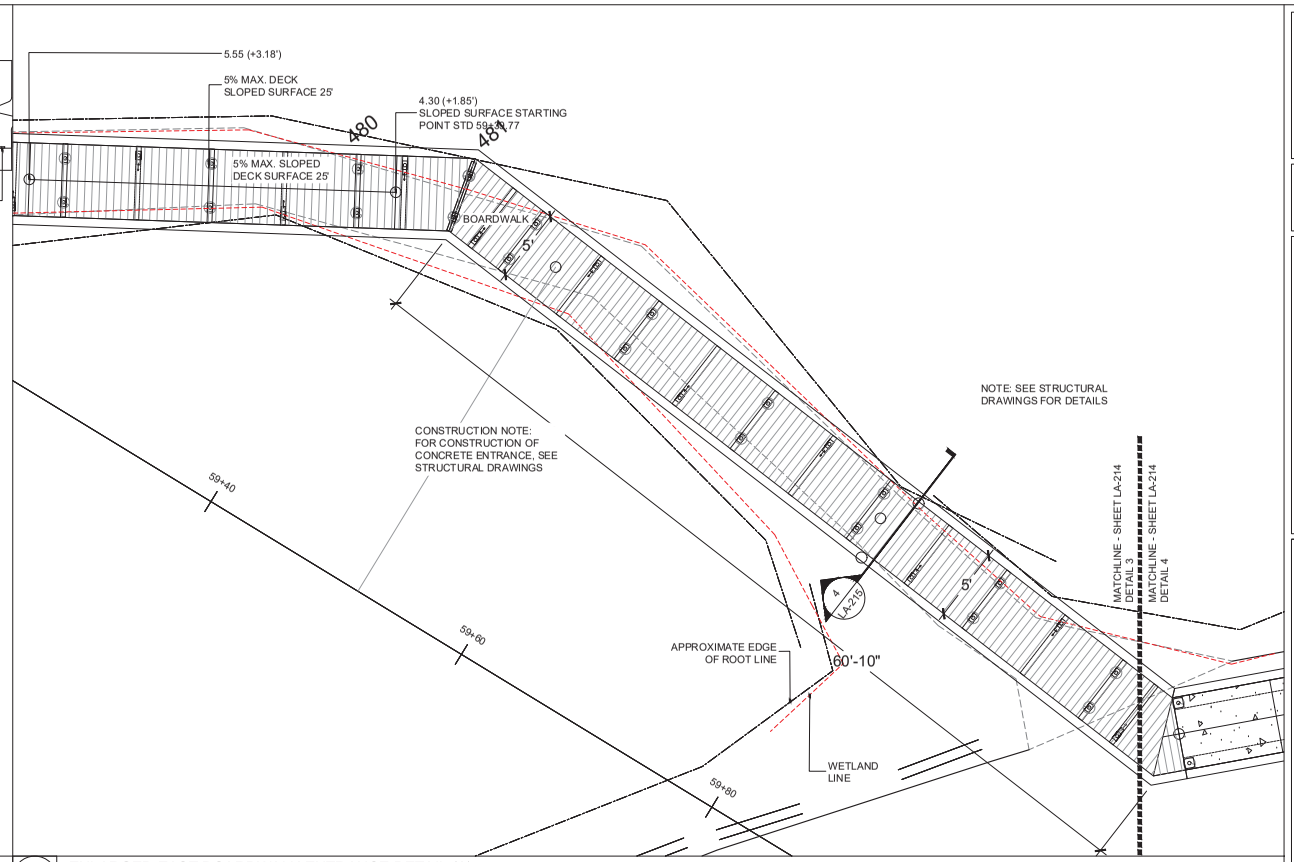
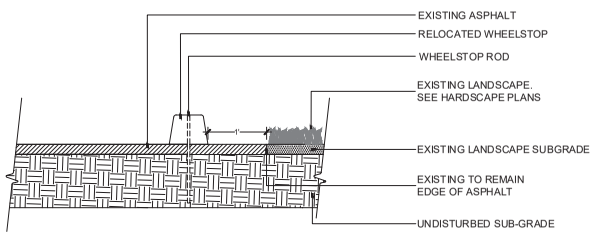
MDC053



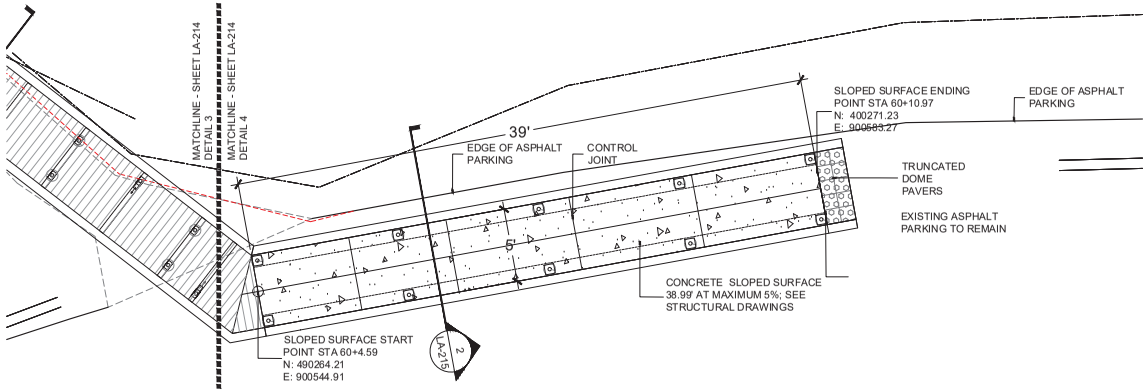
1 LA-214 STAIR RAILING DETAIL
SCALE: 3/4"=1'-0"



3 LA-214 ENLARGED EAST BOARDWALK ENTRANCE DETAIL (A)
SCALE: 1/4" = 1'-0"



2 LA-214 RELOCATED WHEELSTOP SECTION DETAIL
SCALE: 1" = 1'-0"



4 LA-214 ENLARGED EAST BOARDWALK ENTRANCE DETAIL (B)
SCALE: 1/4" = 1'-0"

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MIAMI-DADE PARKS, RECREATION AND OPEN SPACES
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Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
HARDSCAPE PAVING AND FURNITURE DETAILS

No	Date	Revisions Description

DESIGNED BY: RP.H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-214
Sheet
14 of 16

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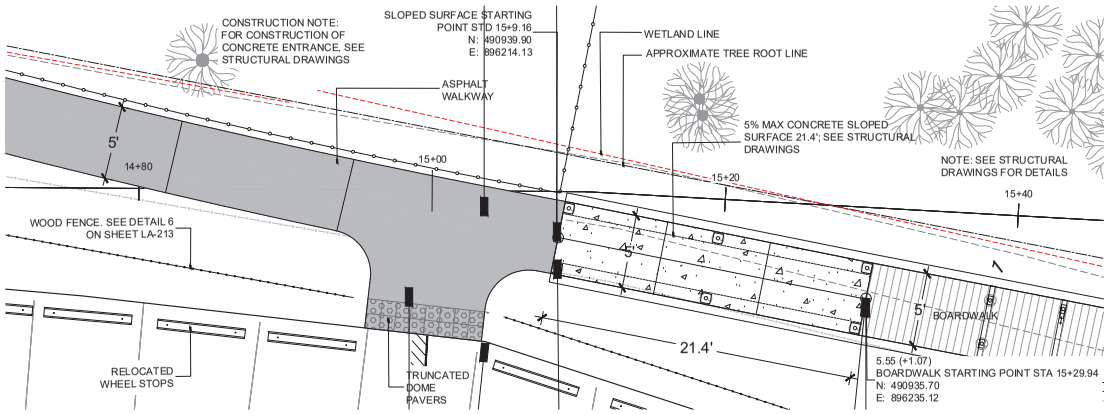
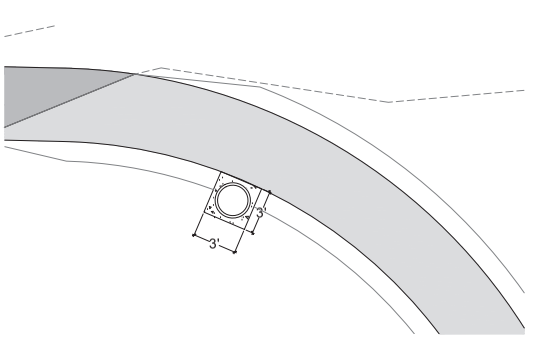
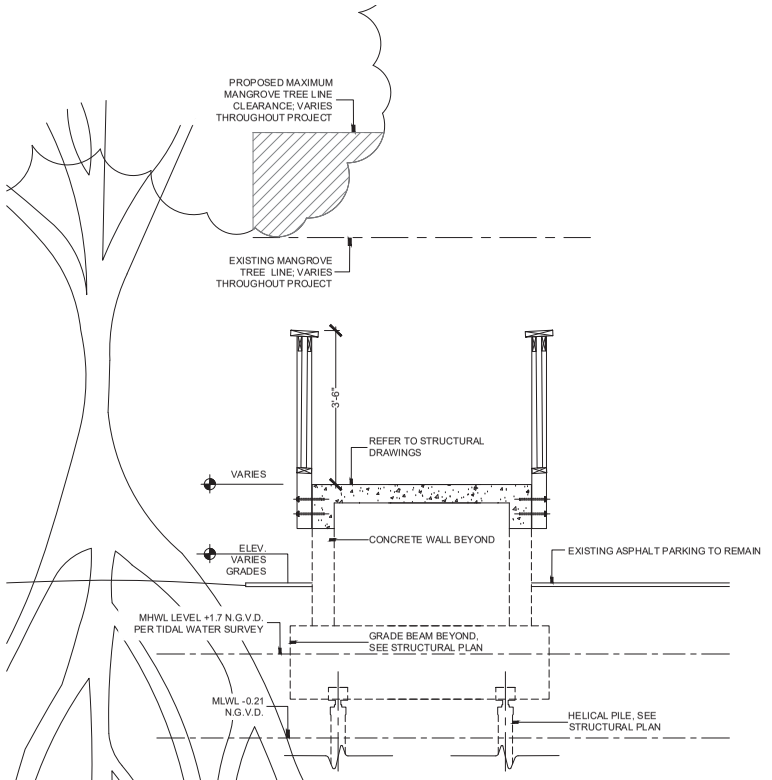


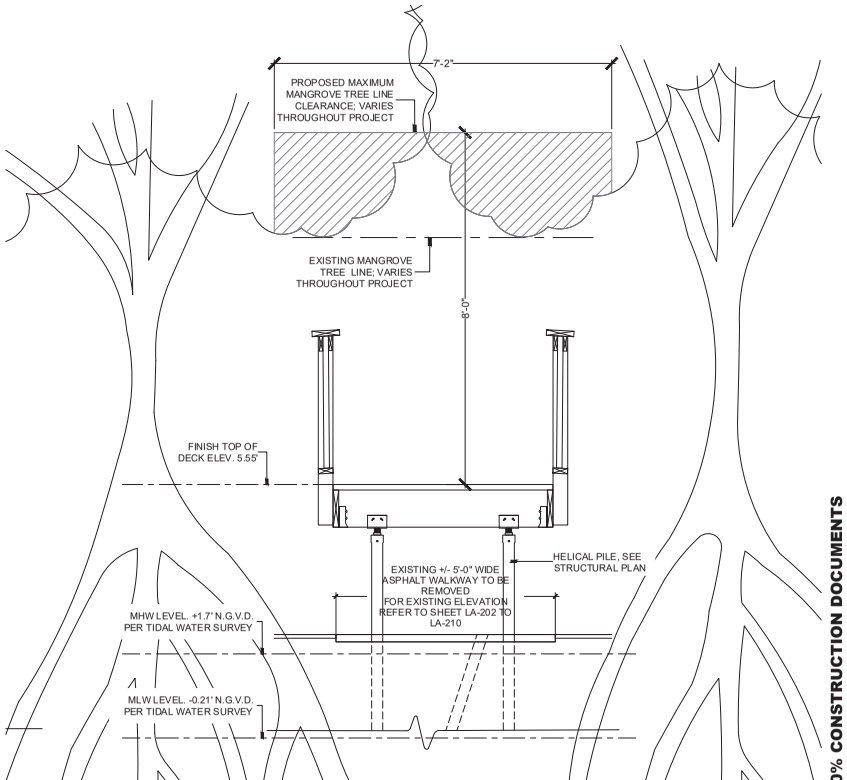
1 ENLARGED WEST BOARDWALK ENTRANCE DETAIL
LA-215 SCALE: 1/4" = 1'-0"



3 TRASH RECEPTACLE CONCRETE PAD PLAN VIEW
LA-215 SCALE: 1/4"-1'-0"



2 MANGROVE TREE LINE BOARDWALK SLOPED SURFACE CROSS SECTION DETAIL
LA-215 SCALE: 3/4" = 1'-0"



4 MANGROVE TREE LINE BOARDWALK CROSS SECTION DETAIL
LA-215 SCALE: 3/4" = 1'-0"

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MDC054

KIRK J. OLNEY
LANDSCAPE ARCHITECT
FLA REG. NO. LA0001807
CORAL GABLES, FL 33146 • TEL: 305-444-2000

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
HARDSCAPE PAVING AND FURNITURE DETAILS

No	Date	Revisions Description

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-215
Sheet
15 of 16

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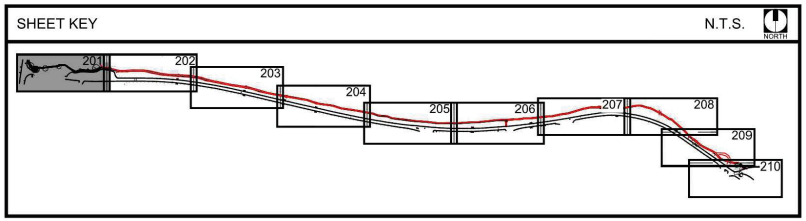

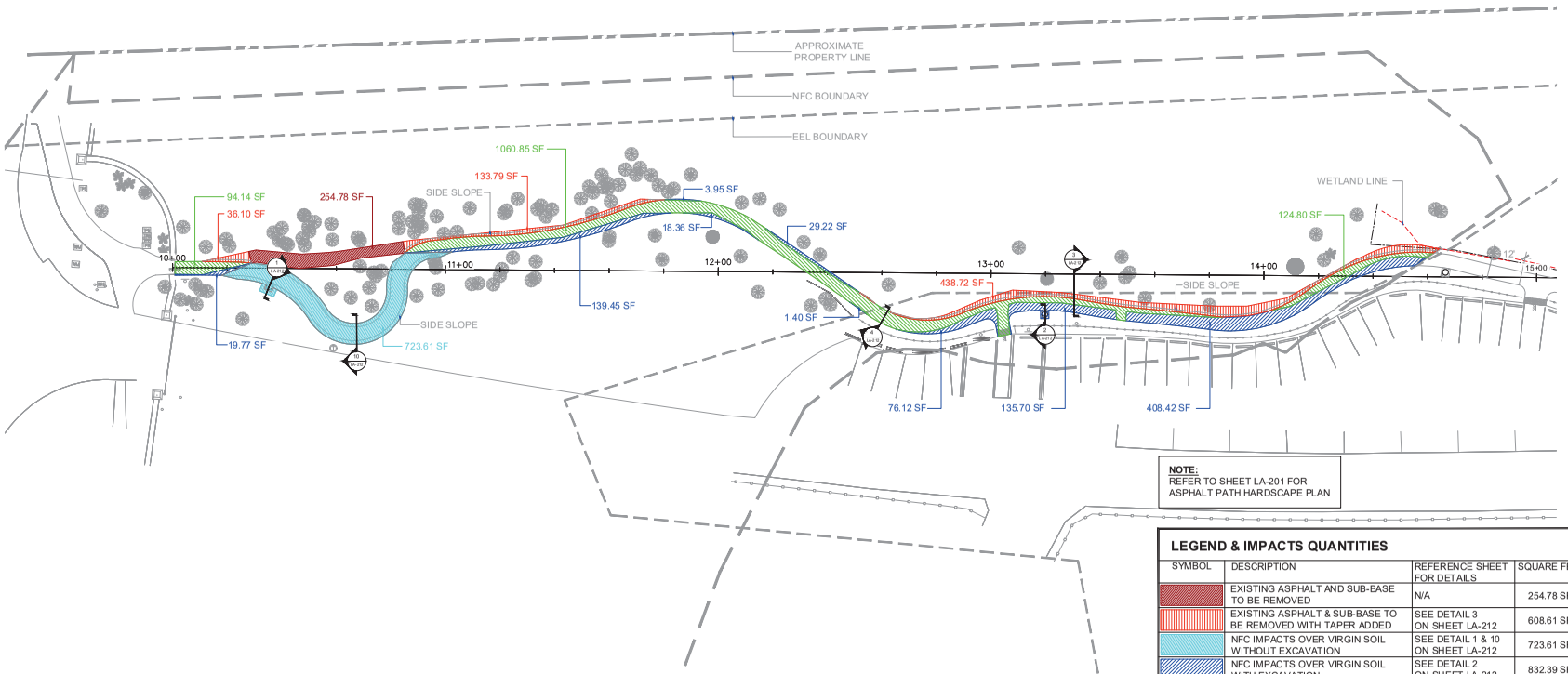

NOTE:
REFER TO SHEET LA-201 FOR ASPHALT PATH HARDSCAPE PLAN

LEGEND & IMPACTS QUANTITIES

SYMBOL	DESCRIPTION	REFERENCE SHEET FOR DETAILS	SQUARE FEET
	EXISTING ASPHALT AND SUB-BASE TO BE REMOVED	N/A	254.78 SF
	EXISTING ASPHALT & SUB-BASE TO BE REMOVED WITH TAPER ADDED	SEE DETAIL 3 ON SHEET LA-212	608.61 SF
	NFC IMPACTS OVER VIRGIN SOIL WITHOUT EXCAVATION	SEE DETAIL 1 & 10 ON SHEET LA-212	723.61 SF
	NFC IMPACTS OVER VIRGIN SOIL WITH EXCAVATION	SEE DETAIL 2 ON SHEET LA-212	832.39 SF
	NFC IMPACTS ASPHALT OVER EXISTING ASPHALT	SEE DETAIL 4 ON SHEET LA-212	1,279.79 SF
	TOTAL NFC IMPACTS		**3,699.18 SF**

NFC IMPACTS NOTE:
ALL IMPACTS QUANTITIES WERE OBTAIN BY USING AUTOCAD

NORTH 0' 10' 20' 40'

SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

KIRK J. OLNEY
LANDSCAPE ARCHITECT
FLORIDA REGISTRATION NO. 6666666
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 - TEL: 305-444-8000

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD. CORAL GABLES. FL 33146

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9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
NFC IMPACTS DIAGRAM AND QUANTITIES

No	Date	Revisions Description

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME: Matheson Hammock LF SHEETS.dwg	

CONTRACT No
999999-15-012

LA-216
Sheet
16 of 16

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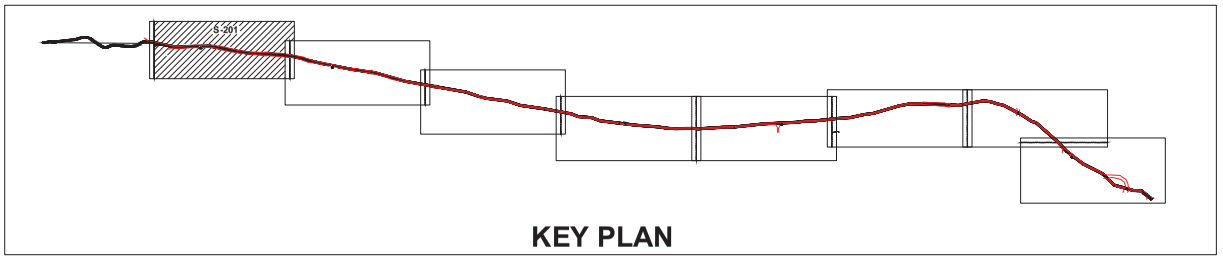
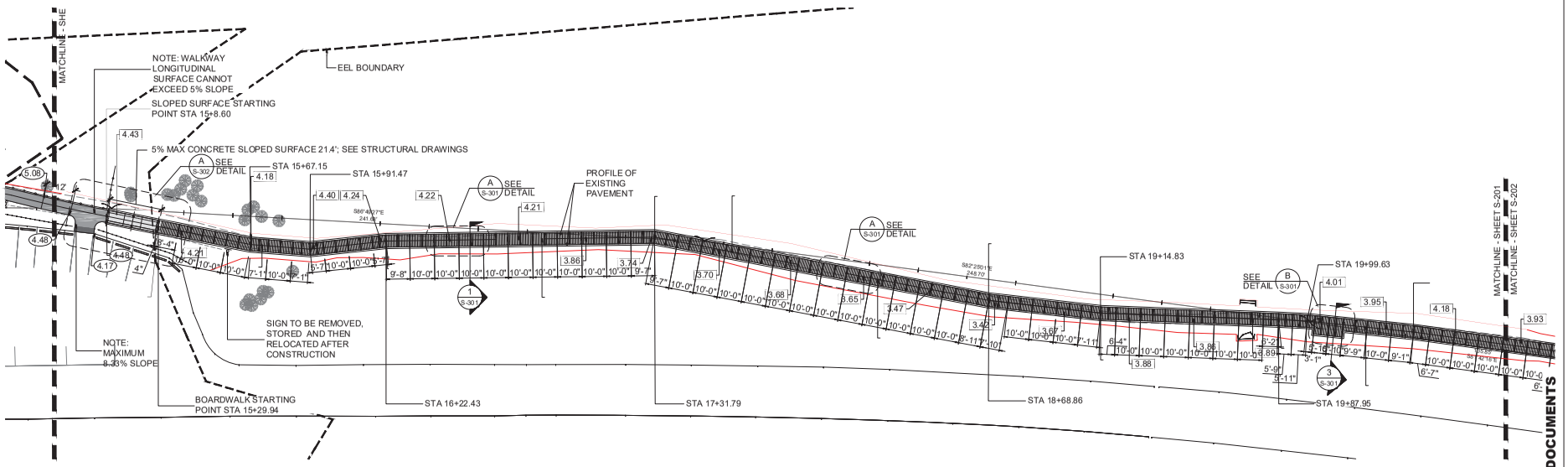


LEGEND	
SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
3.00	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT



North

PARTIAL FOUNDATION AND BOARDWALK FRAMING PLAN

SCALE: 1" = 20'-0"

NOTES:

1.– ⊡ DENOTES PLUMB 2–7/8" HELICAL PILE

2.– ⊡ DENOTES BATTERED 2–7/8" HELICAL PILE

3.– FOR SIGN FOUNDATION, SEE SECTION 4/S–302

NORTH 0' 10' 20' 40'

SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

MDC056

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
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MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
FOUNDATION AND BOARDWALK FRAMING PLAN SHEET 1 OF 8

No	Date	Revisions Description

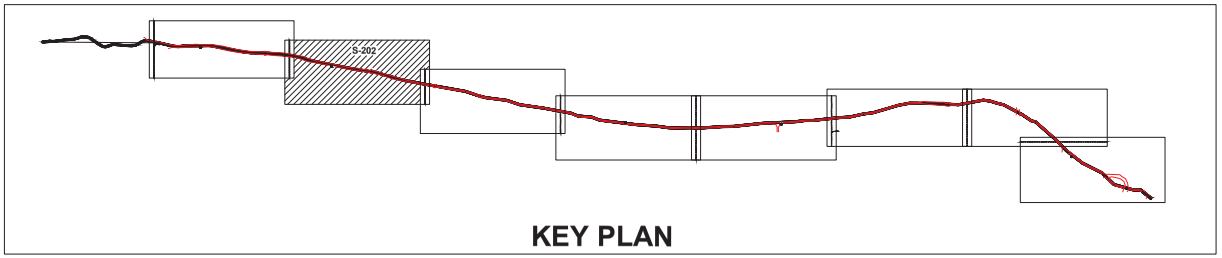
DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHKD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-201

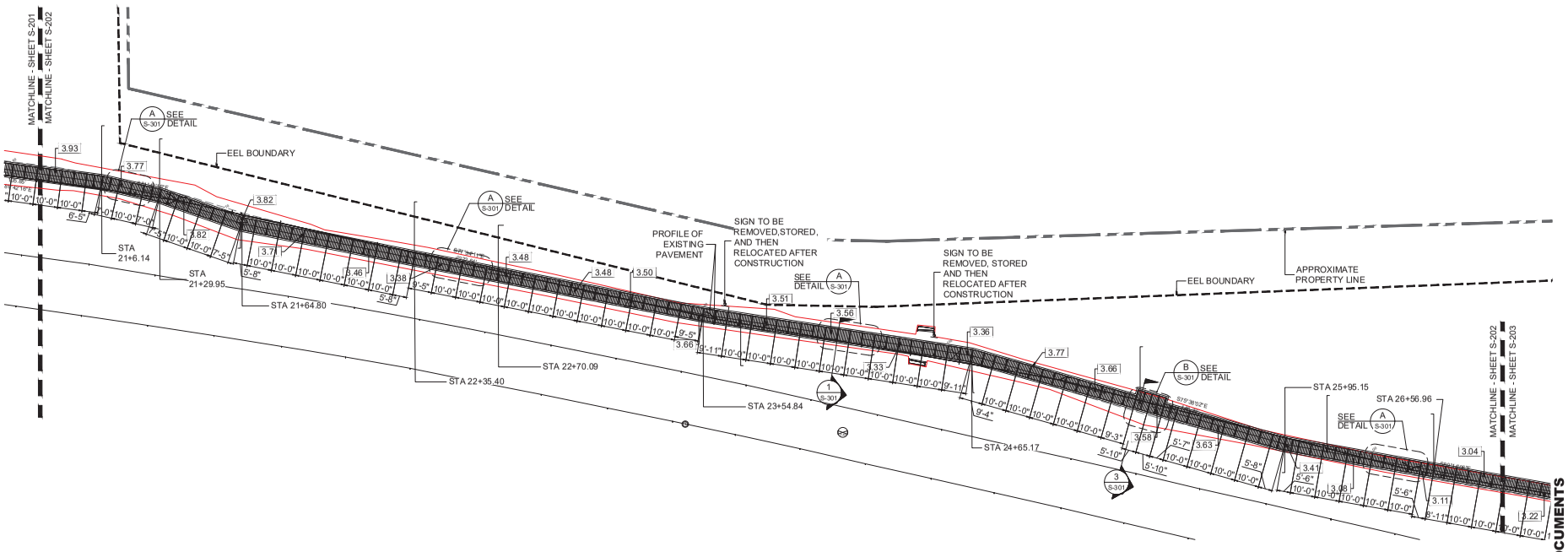
Sheet
01 of 13

MDC057



KEY PLAN

LEGEND	
SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
3.00	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT



North

PARTIAL FOUNDATION AND BOARDWALK FRAMING PLAN

SCALE: 1" = 20'-0"

NOTES:

1.- ⊙ DENOTES PLUMB 2-7/8" HELICAL PILE

2.- ⊙ DENOTES BATTERED 2-7/8" HELICAL PILE

3.- FOR SIGN FOUNDATION, SEE SECTION 4/S-302

NORTH 0' 10' 20' 40'
SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.

Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
FOUNDATION AND BOARDWALK FRAMING PLAN SHEET 2 OF 8

Revisions		
No	Date	Description

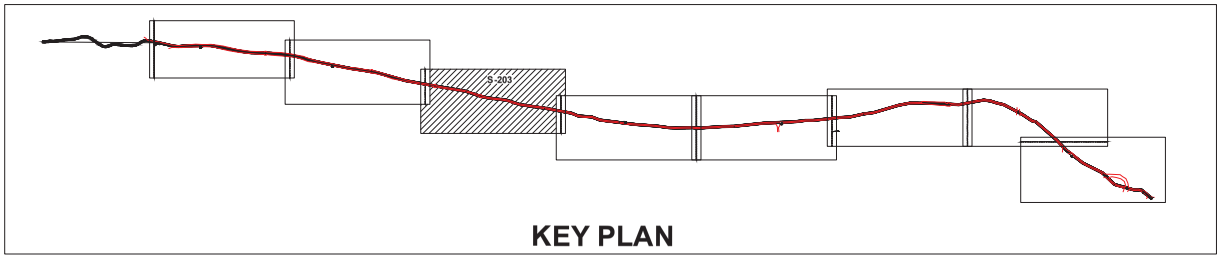
DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-202

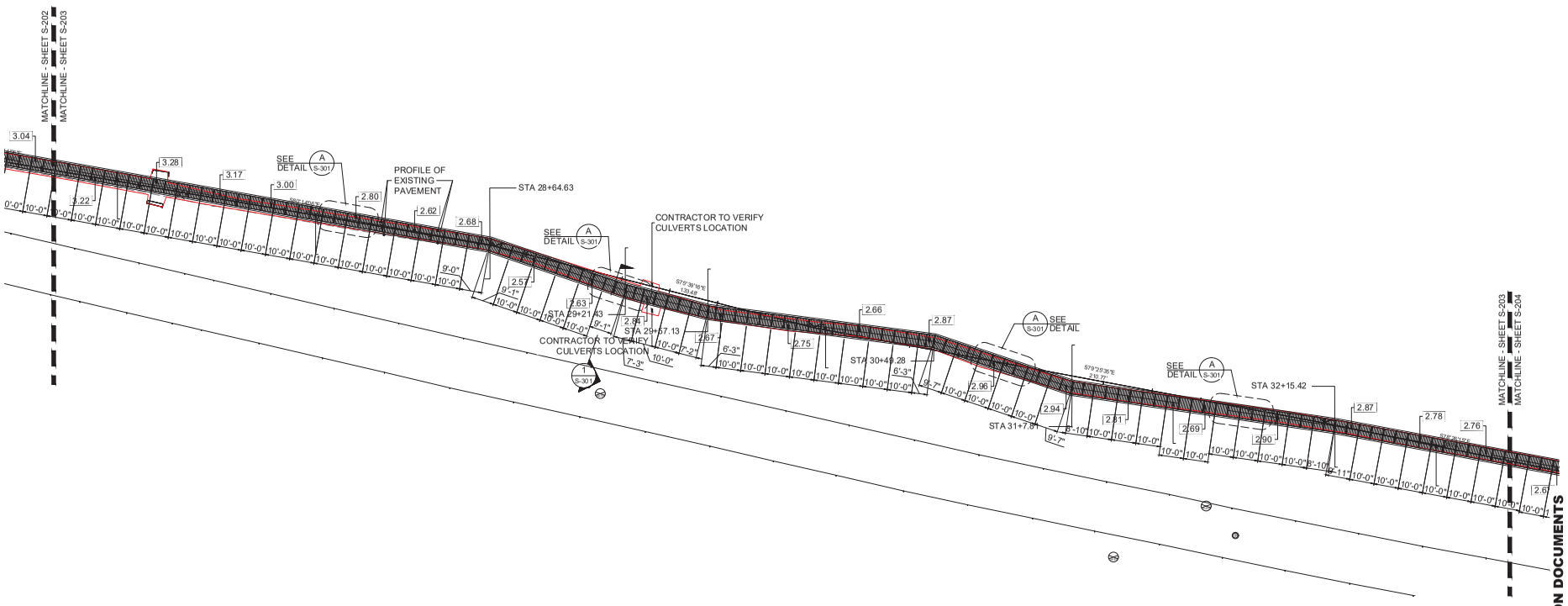
Sheet
02 of 13

MDC058



KEY PLAN

LEGEND	
SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
3.00	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT



North

PARTIAL FOUNDATION AND BOARDWALK FRAMING PLAN

SCALE: 1" = 20'-0"

NOTES:

1.– ⊡ DENOTES PLUMB 2-7/8" HELICAL PILE

2.– ⊡ DENOTES BATTERED 2-7/8" HELICAL PILE

3.– FOR SIGN FOUNDATION, SEE SECTION 4/S-302

NORTH 0' 10' 20' 40'

SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

KIRK J. OLNEY
LANDSCAPE ARCHITECT
FLA REG. NO. 0001313
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 • TEL: 305-444-2000

MIAMI-DADE PARKS, RECREATION & OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
FOUNDATION AND BOARDWALK FRAMING PLAN SHEET 3 OF 8

Revisions		
No	Date	Description

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-203

Sheet
03 of 13

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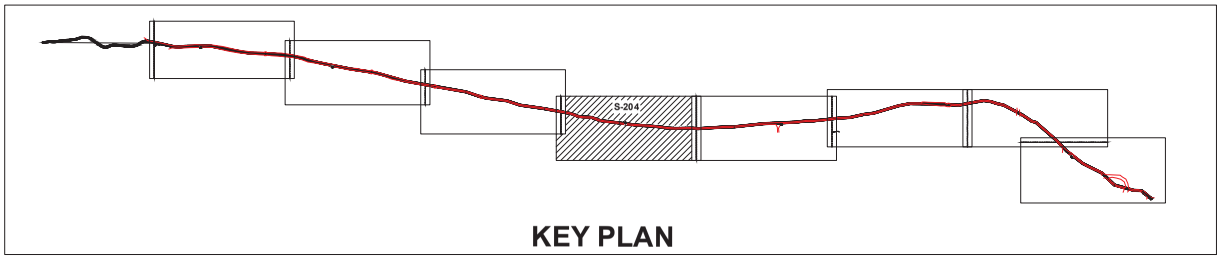
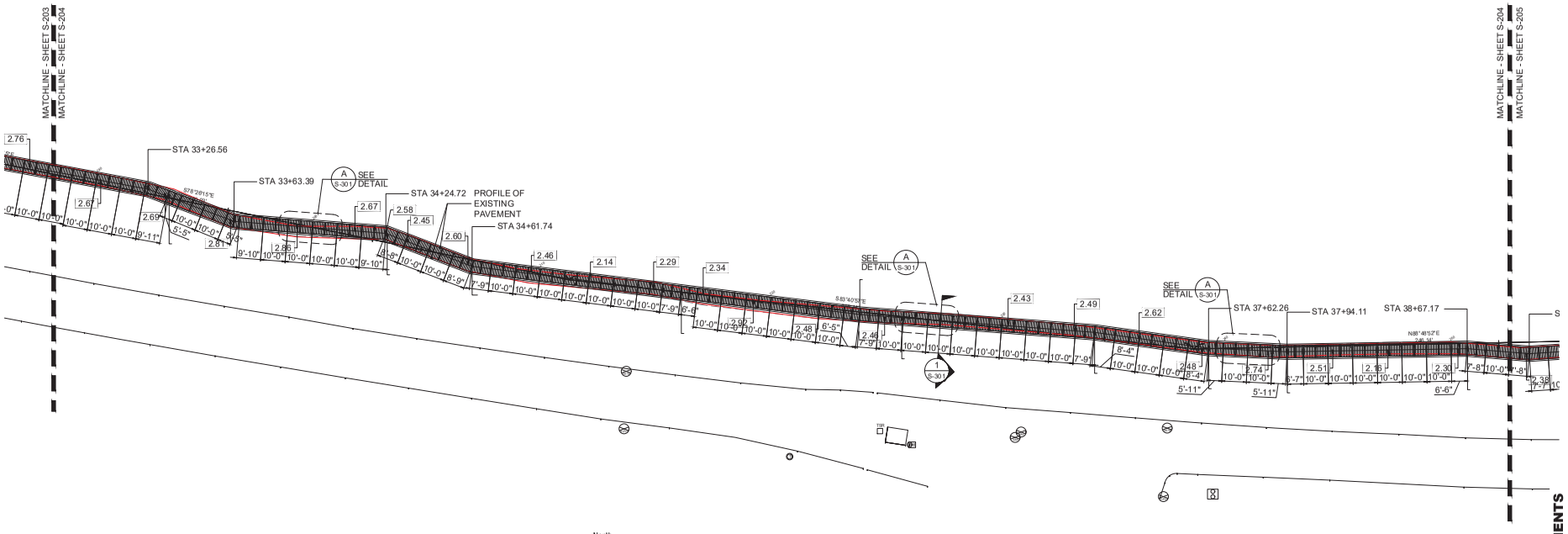
MDC059



LEGEND	
SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
3.00	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT



North

PARTIAL FOUNDATION AND BOARDWALK FRAMING PLAN

SCALE: 1" = 20'-0"

NOTES:

1.- ⊙ DENOTES PLUMB 2-7/8" HELICAL PILE

2.- ⊙ DENOTES BATTERED 2-7/8" HELICAL PILE

3.- FOR SIGN FOUNDATION, SEE SECTION 4/S-302

SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

KIRK J. OLNEY
LANDSCAPE ARCHITECT
FLORIDA REGISTRATION NO. 0001234
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 TEL: 305-444-0555

BRAMBLADE PARK ASSOCIATES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD. CORAL GABLES. FL 33146

Project Title:

MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
FOUNDATION AND BOARDWALK FRAMING PLAN SHEET 4 OF 8

No	Date	Revisions Description

DESIGNED BY: RPH	DATE: 12/11/2023
DWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT'S DATE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-204

Sheet
04 of 13

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XREF: G2017 Matheson S SURVEY [...\01_Data\XG-G2017-S-SURVEY Matheson.dwg]
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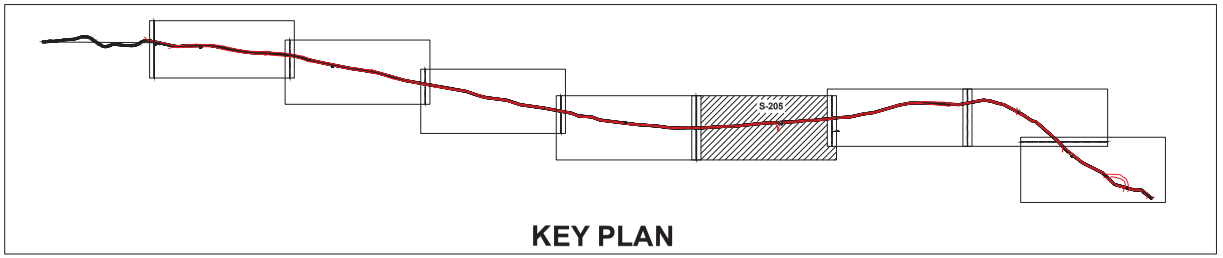
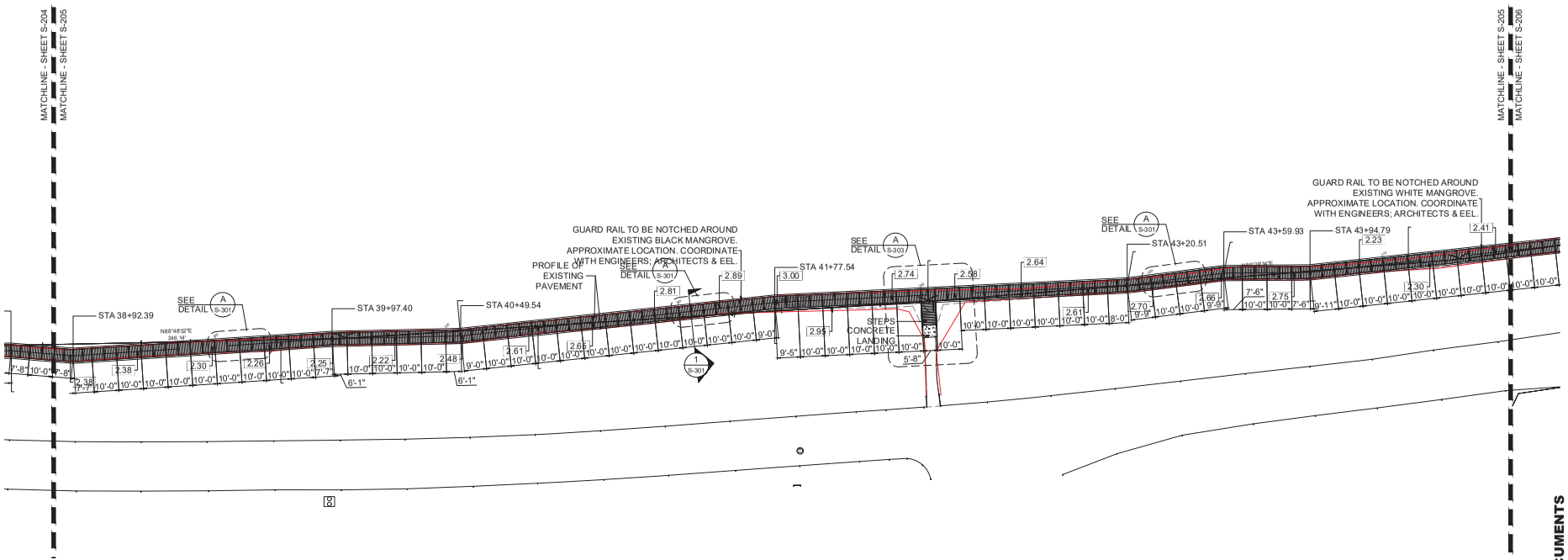
MDC060



KEY PLAN

LEGEND	
SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
3.00	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT



North

PARTIAL FOUNDATION AND BOARDWALK FRAMING PLAN

SCALE: 1" = 20'-0"

NOTES:

1.- ○ DENOTES PLUMB 2-7/8" HELICAL PILE

2.- ◇ DENOTES BATTERED 2-7/8" HELICAL PILE

3.- FOR SIGN FOUNDATION, SEE SECTION 4/S-302

NORTH 0' 10' 20' 40'

SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

KIRK J. OLNEY
LANDSCAPE ARCHITECT
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 - TEL: 305-444-2000

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD. CORAL GABLES. FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
FOUNDATION AND BOARDWALK FRAMING PLAN SHEET 5 OF 8

No	Date	Revisions Description

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHKD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: A.S.SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-205

Sheet
05 of 13

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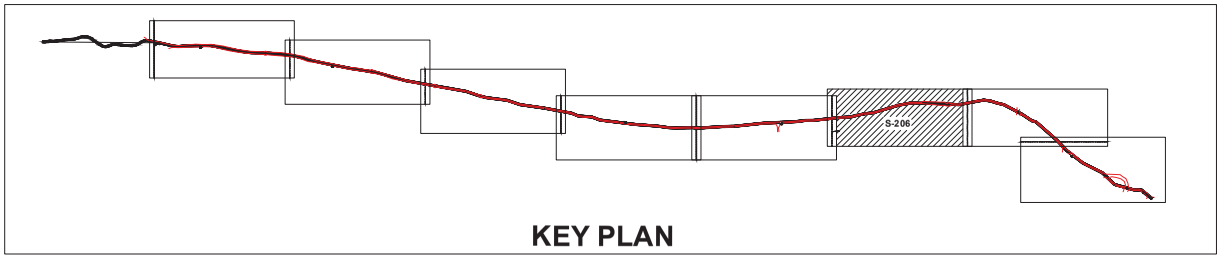
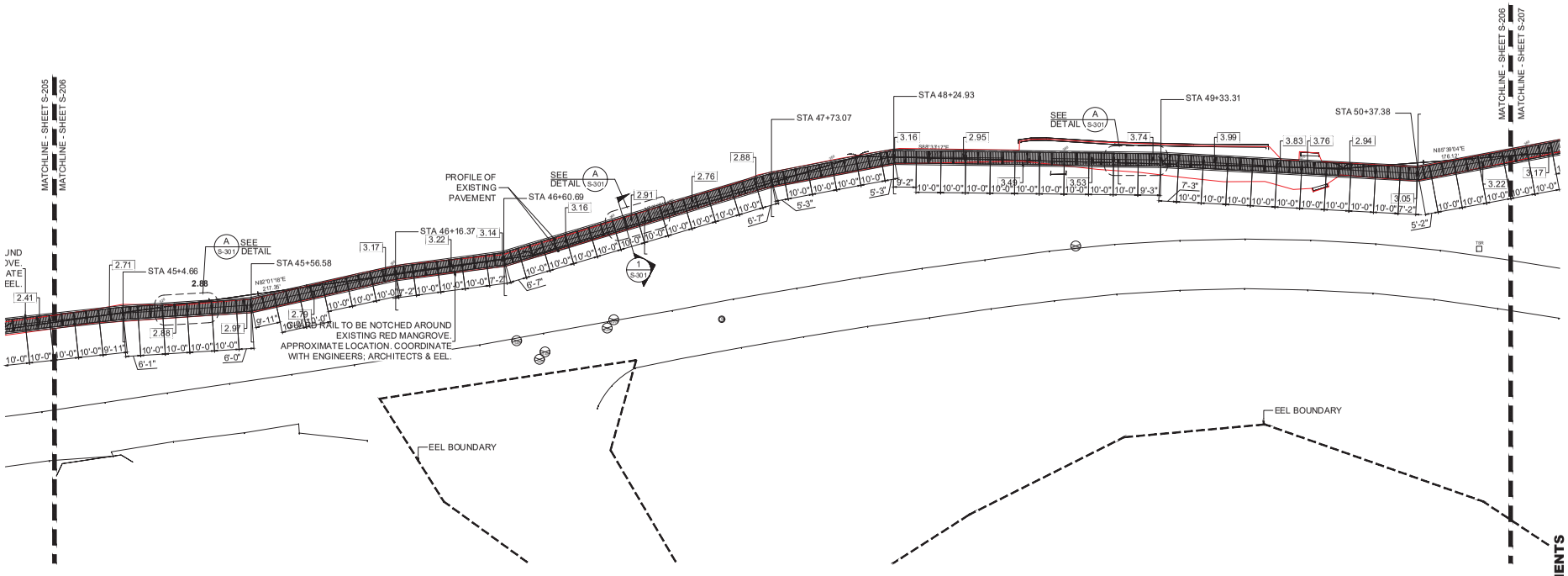


KEY PLAN

LEGEND	
SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
3.00	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT



North

PARTIAL FOUNDATION AND BOARDWALK FRAMING PLAN

SCALE: 1" = 20'-0"

NOTES:

1.- ⊙ DENOTES PLUMB 2-7/8" HELICAL PILE

2.- ⊘ DENOTES BATTERED 2-7/8" HELICAL PILE

3.- FOR SIGN FOUNDATION, SEE SECTION 4/S-302

NORTH 0' 10' 20' 40'

SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

MDC061

KIRK J. OLNEY
LANDSCAPE ARCHITECT
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 - TEL: 305-444-2000

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
FOUNDATION AND BOARDWALK FRAMING PLAN SHEET 6 OF 8

Revisions		
No	Date	Description

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-206

Sheet
06 of 13

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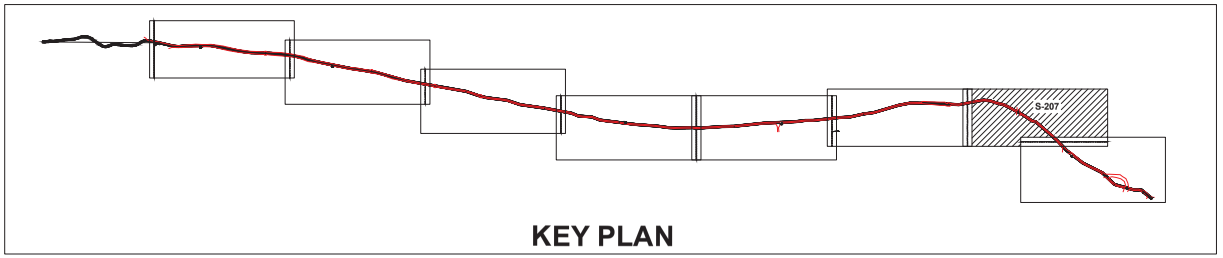
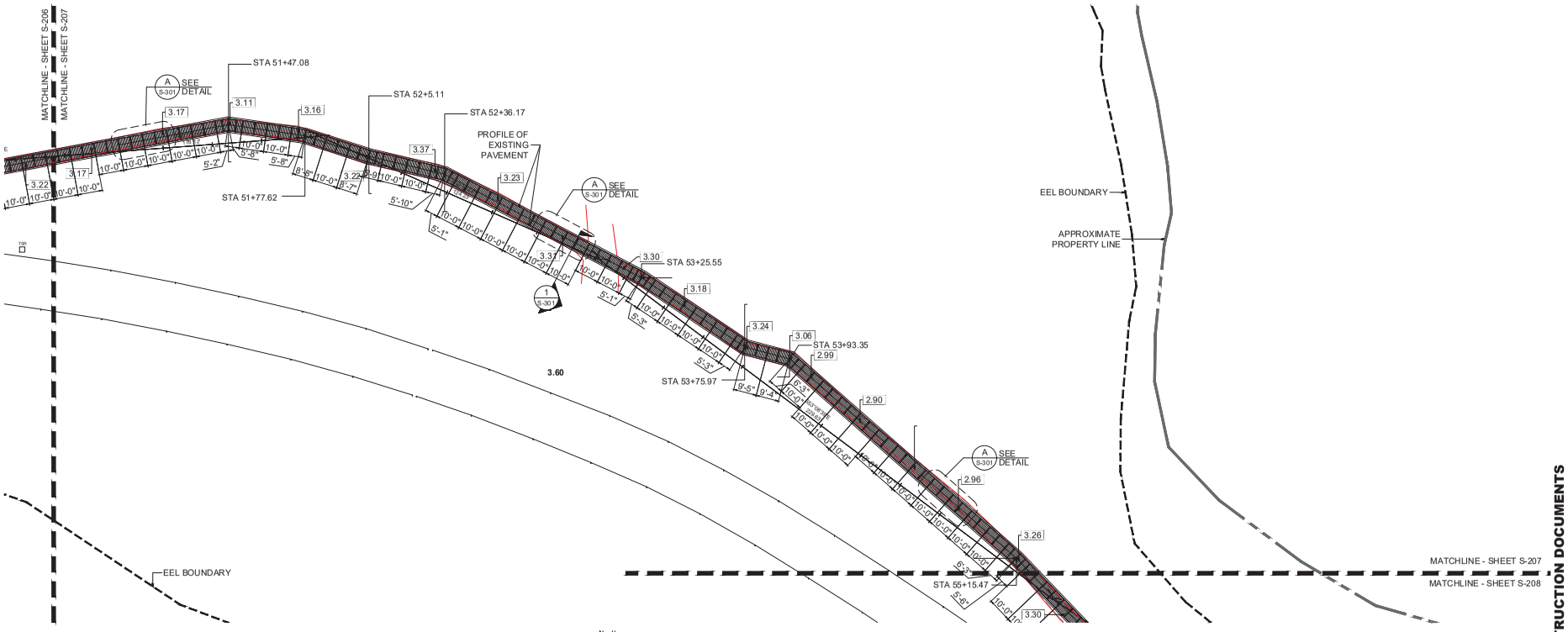
XREF:(TBLK) Matheson [...\2K_Work\X-LAD\-TBLK Matheson.dwg]
DWG:J:\Shared\MY\2501\Production\Engineering\00_PROJECTS\2207.000 - Matheson Hammock\04_Drawings\02_Sheets\S-201 - S-206.dwg

MDC062



KEY PLAN

LEGEND	
SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
3.00	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT



North

PARTIAL FOUNDATION AND BOARDWALK FRAMING PLAN

SCALE: 1" = 20'-0"

NOTES:

1.- ⊙ DENOTES PLUMB 2-7/8" HELICAL PILE

2.- ⊙ DENOTES BATTERED 2-7/8" HELICAL PILE

3.- FOR SIGN FOUNDATION, SEE SECTION 4/S-302

NORTH 0' 10' 20' 40'

SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
FOUNDATION AND BOARDWALK FRAMING PLAN SHEET 7 OF 8

Revisions		
No	Date	Description

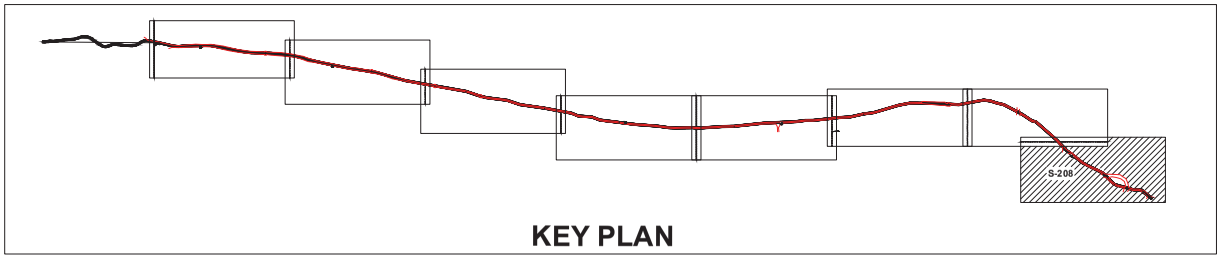
DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHKD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-207

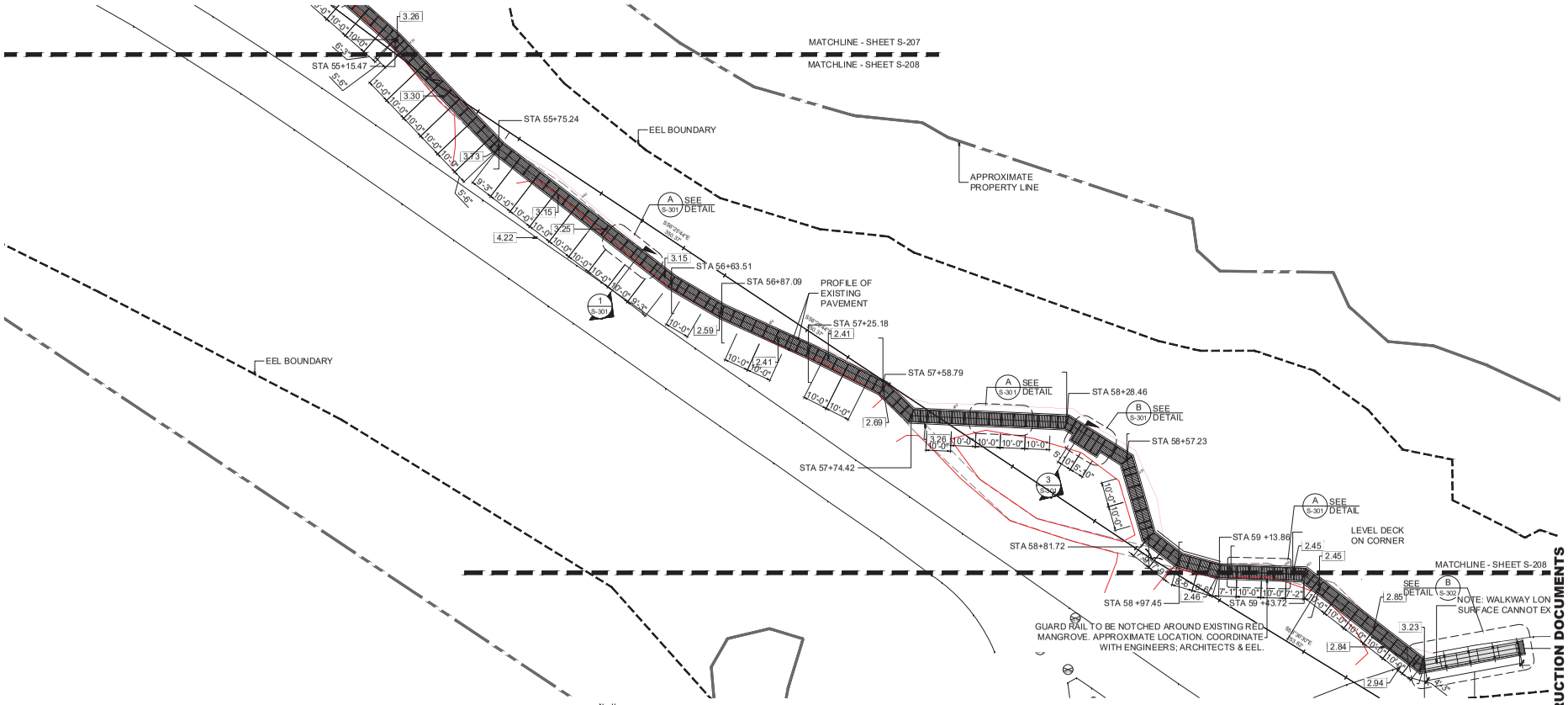
Sheet
07 of 13

MDC063



KEY PLAN

LEGEND	
SYMBOL	DESCRIPTION
5.55	FINISH LEVEL OF BOARDWALK
44+00	STATION POINT
3.00	EXISTING SPOT GRADE ON CENTER LINE OF EXISTING ASPHALT



North

PARTIAL FOUNDATION AND BOARDWALK FRAMING PLAN

SCALE: 1"=20'-0"

NOTES:

1.- ⊙ DENOTES PLUMB 2-7/8" HELICAL PILE

2.- ⊙ DENOTES BATTERED 2-7/8" HELICAL PILE

3.- FOR SIGN FOUNDATION, SEE SECTION 4/S-302

NORTH 0' 10' 20' 40'

SCALE: 1" = 20'

100% CONSTRUCTION DOCUMENTS

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
FOUNDATION AND BOARDWALK FRAMING PLAN SHEET 8 OF 8

No	Date	Description
Revisions		

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-208

Sheet
08 of 13

GENERAL STRUCTURAL NOTES

GENERAL

1. THE STRUCTURAL SYSTEM FOR THE BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2020 (7TH EDITION), ASCE 7-16, ACI 318-14, AISC 360-10, NDS-12.

2. THE STRUCTURE WAS DESIGNED TO BE SELF-SUPPORTING AND STABLE FOLLOWING INSTALLATION OF ALL COMPONENTS AS INDICATED IN THE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE SEQUENCE OF ERECTION PROCEDURES (INCLUDING IMPLEMENTATION OF TEMPORARY SHORING, BRACING, ETC.) AND TO ENSURE SAFETY THROUGHOUT THE PERIOD OF CONSTRUCTION.

3. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS TO COORDINATE LOCATION OF DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, REGLETS, BOLT SETTINGS, SLEEVES, DIMENSIONS, ETC.

4. POTENTIAL CONFLICTS SHALL BE TRANSMITTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK CONTRACTOR TO PROVIDE ADEQUATE TIME FOR RESPONSE FROM ARCHITECT/ENGINEER.

5. NO PENETRATION SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT A PREVIOUS WRITTEN APPROVAL OF THE ENGINEER OF RECORD. IF ANY ERRORS, OMISSIONS OR POTENTIAL CONFLICTS APPEAR IN THE DRAWINGS, SPECIFICATIONS, OR OTHER DOCUMENTS, THE CONTRACTOR MUST NOTIFY THE ARCHITECT AND ENGINEER, IN WRITING, OF THE SAME PRIOR TO PROCEEDING WITH THE WORK IN QUESTION. IN THE EVENT THAT THE CONTRACTOR FAILS TO GIVE NOTICE, OR PROVIDE SUFFICIENT TIME FOR A RESPONSE, CONTRACTOR IS RESPONSIBLE FOR THE RESULTS OF SUCH ERRORS OR OMISSIONS, AND FOR ALL COST FOR RECTIFYING SAME AND FOR ANY DELAYS OR ANY OTHER COSTS INCURRED BY THE SAME.

DESIGN LOADS

1. DEAD LOAD (D)
   UNIFORM DEAD LOAD APPLIED TO THE STRUCTURE

STAIRS	5 PSF
WOOD DECK	100 PSF

2. LIVE LOAD (L)
   UNIFORM LIVE LOAD APPLIED TO THE STRUCTURE

STAIRS	5 PSF
WOOD DECK	100 PSF

3. WIND LOAD (W)

WIND SPEED	175 MPH
RISK CATEGORY	II
EXPOSURE CATEGORY	C

SOIL STATEMENTS

1. AT THE TIME OF CONSTRUCTION, A REGISTERED PROFESSIONAL ENGINEER SHALL SUBMIT TO THE BUILDING OFFICIAL A LETTER ATTESTING THAT THE SITE HAS BEEN OBSERVED AND THE FOUNDATION CONDITIONS ARE SIMILAR TO THOSE UPON WHICH THE SIGNED IS BASED. THE LETTER SHALL BE DESIGNED AND BEAR THE IMPRESS SEAL OF THE ENGINEER AS APPLICABLE.

EXCAVATIONS

1. GENERAL CONTRACTOR TO NOT EXCAVATE ADJACENT TO OUR NEAR NEW STRUCTURES AFTER THEY HAVE BEEN CONSTRUCTED. EXCAVATIONS FOR UTILITIES ADJACENT TO OR NEAR NEW STRUCTURES TO BE COMPLETED BEFORE THE NEW STRUCTURES ARE CONSTRUCTED. COORDINATE ALL UTILITIES WITH STRUCTURAL DRAWINGS. IF CONFLICTS EXIST CONTACT ARCHITECT AND STRUCTURAL ENGINEER. GENERAL CONTRACTOR TO EXERCISE CAUTION DURING EXCAVATIONS ADJACENT TO THE EXISTING STRUCTURES. IF THERE EXISTS A DEVIATION OF THE EXISTING FOUNDATION FROM WHAT IS SHOWN IN THESE PLANS, CONTACT ARCHITECT AND STRUCTURAL ENGINEER. GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE BRACING AND LATERAL SUPPORT, AND FOR MAINTAINING THE INTEGRITY OF THE EXISTING STRUCTUR DURING ALL PHASES OF THE CONSTRUCTION.

EXCAVATIONS

1. NO SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECT/ENGINEER'S REVIEW UNTIL AFTER THEY HAVE BEEN REVIEWED AND NOTED FOR CONSTRUCTION METHOD, DIMENSIONING, AND OTHER TRADE REQUIREMENTS BY THE CONTRACTOR, AND STAMPED WITH THE CONTRACTOR'S APPROVAL SEAL. ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS, AS A RESULT OF CHECKING AND REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY ENGINEER, AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SHOP DRAWINGS.
2. ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR REVIEWING THAT SHOP DRAWINGS AND / OR MATERIAL SUBMISSION ARE IN COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.

DETAILS AND SECTIONS

1. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL, AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, UNLESS A DIFFERENT DETAIL, OR SECTION, IS SHOWN.

WOOD MEMBERS

1. WOOD

   A. ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR REVIEWING THAT SHOP DRAWINGS AND / OR MATERIAL SUBMISSION ARE IN COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS.
   B. ANY VISUALLY TWISTED OR BOWED LUMBER, IN ANY DIRECTIONS, SHALL NOT BE ACCEPTED. NO STRUCTURAL MEMBER SHALL BE CUT NOTCHED OR OTHERWISE REDUCED IN SIZE OR STRENGTH WITHOUT PRIOR APPROVAL IN WRITING FROM THE STRUCTURAL ENGINEER.
   C. ALL WOOD MEMBERS TO BE AWPA USE CATEGORY 4B (UC4B). APPLY SURFACE APPLIED WATER REPELLENT IN ADDITION TO INORGANIC BORON (SBX).

2. GENERAL

   A. ALL WOOD MEMBERS TO BE FREE OF ALL IMPERFECTIONS INCLUDING SPLITS, CHECKS, OR EXCESSIVE KNOTS. UNSATISFACTORY MATERIALS TO BE REPLACED AT NO COST TO THE OWNER.
   B. ALL BOLTS AND LAGS SHALL BE STAINLESS STEEL.
   C. THE GENERAL CONTRACTOR SHALL DETERMINE THE CUTTING OF THE WOOD COLUMNS, WHETHER SHOP OR FIELD CUTS.

DELEGATED/SPECIALTY ENGINEER SUBMITTALS

1. SUBMITTALS SHALL BE PREPARED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE AND THE FLORIDA STATUTES CHAPTER 61G15. ENGINEER'S NAME, LICENSE NUMBER AND BUSINESS ADDRESS SHALL BE LEGIBLY INDICATED ON ALL DOCUMENTS. SPECIALTY ENGINEER SHALL BE SOLELY RESPONSIBLE FOR DIRECT CONTACT WITH THE BUILDING DEPARTMENT WHILE OBTAINING BUILDING DEPARTMENT'S APPROVAL FOR HIS/HER PORTION OF WORK (INCLUDING PROVIDING RESPONSES TO REVIEW COMMENTS, SUPPLYING ADDITIONAL CALCULATIONS AND PLANS, ATTENDING MEETINGS, ETC. DESIGN AND DETAILING OF CONNECTIONS BETWEEN ENGINEERED ITEM AND STRUCTURE SHALL BE BASED ON INFORMATION OBTAINED FROM STRUCTURAL DRAWINGS AND BE PRECEDED BY THE SPECIALTY ENGINEER'S PRIOR REVIEW OF THE CAPACITY OF THE PORTION OF STRUCTURE TO WHICH THE ITEM IS BEING FASTENED. MODIFICATIONS TO THE STRUCTURE RESULTING FROM REACTIONS IMPOSED AT THE CONNECTION POINTS (GROUTING OF MASONRY, ADDITIONAL BRACING OF STRUCTURAL MEMBERS, ADDITIONAL CONCRETE TIE-COLUMNS WITHIN MASONRY WALLS, ETC.) SHALL BE DESIGNED AND CLEARLY DETAILED BY THE DELEGATED ENGINEER ON THE SHOP DRAWINGS AND SUBMITTED FOR REVIEW AS PART OF THE SHOP DRAWINGS. CONTRACTOR SHALL ASSUME ALL COSTS OF ADDITIONAL LABOR AND MATERIALS ASSOCIATED WITH COSTS OF ADDITIONAL LABOR AND MATERIALS ASSOCIATED WITH THE IMPLEMENTATION OF SUCH METHODS (IF MODIFICATIONS ARE NOT DETAILED BY THE DELEGATED ENGINEER ON HIS/HER DRAWINGS AND ARE TO BE REFORMED BY THE ENGINEER OF RECORD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL WORK PERFORMED BY THE ENGINEER OF RECORD ON AN HOURLY CHARGE BASIS).
2. SPECIALTY ENGINEERED ITEMS ON THIS PROJECT INCLUDE:

   A. BOARDWALK ENTRY GATE, HARDWARE ASSEMBLY
   B. SITE GATE AND FOUNDATIONS

DETAILS AND SECTIONS

1. ALL EXPOSED STEEL, BOLTS, NUTS, WASHERS ARE TO BE STAINLESS STEEL, TYPICAL UNLESS NOTED.

HELICAL PILE

1. HELICAL PILES TO BE MANUFACTURED BY CHANCE HELICAL PILES, OR ENGINEER APPROVED EQUAL.

2. MINIMUM ULTIMATE STRENGHT CAPACITIES SHALL BE AS SHOWN BELOW, UNLESS NOTED OTHERWISE:

COMPRESSION CAPACITY	20 KIP
LATERAL CAPACITY	2 KIP

3. ALL HELICAL PILES, CONNECTION BOLTS, PLATES, ETC. SHALL BE HOT DIPPED GALVANIZED PER ASTM A153.

4. HELICAL PILE MANUFACTURED PRODUCTS SHALL BE DESIGNED FOR A DESIGN SERVICE LIFE OF 50 YEARS ACCOUNTING FOR CORROSION IN A HIGHLY ABRASIVE ENVIRONMENT.

5. CONTRACTOR MUST ABIDE BY ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL PERMITS. CONTRACTOR SHALL BE REQUIRED TO INSTALL THE HELICAL PILES WITHIN THE ALLOWED CONTAINMENT AREA AS NOTED IN THE DRAWINGS.

STRUCTURAL AND MISCELLANEOUS STEEL

1. THREADED FASTENERS AND CONNECTION HARDWARE SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

BOLTS	ASTM A193 GRADE B7
NUTS	ASTM A193 GRADE B7

2. WELD ELECTRODES SHALL BE E70XX LOW HYDROGEN CONFORMING TO AWS D1.1.

PILE SCHEDULE		
PILE SIZE	PILE TYPE	QUANTITY
2 7/8" Ø	HELICAL - PLUMB	990
2 7/8" Ø	HELICAL - BATTERED	486

MDC064

XREF:X:\A-JBL\ Matheson [D:\Drive\HISTORIC\Production\Engineering\00_PROJECTS\20017.000 - Matheson Hammock\03_Drawings\01_Cover\X-Ls-TBX Matheson.dwg]
DWG:C:\Users\ryan\Vectorworks\temp\APdNdm_14624\S-300.dwg

KIRK J. OLNEY
LANDSCAPE ARCHITECT
FLA REG. NO. 0001313
4711 SOUTH LEJEUNE ROAD
CORAL GABLES FL 33146 - TEL: 305.444.8000

MIAMIDADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL 33156

Sheet Title:
GENERAL STRUCTURAL NOTES

No	Date	Revisions Description

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

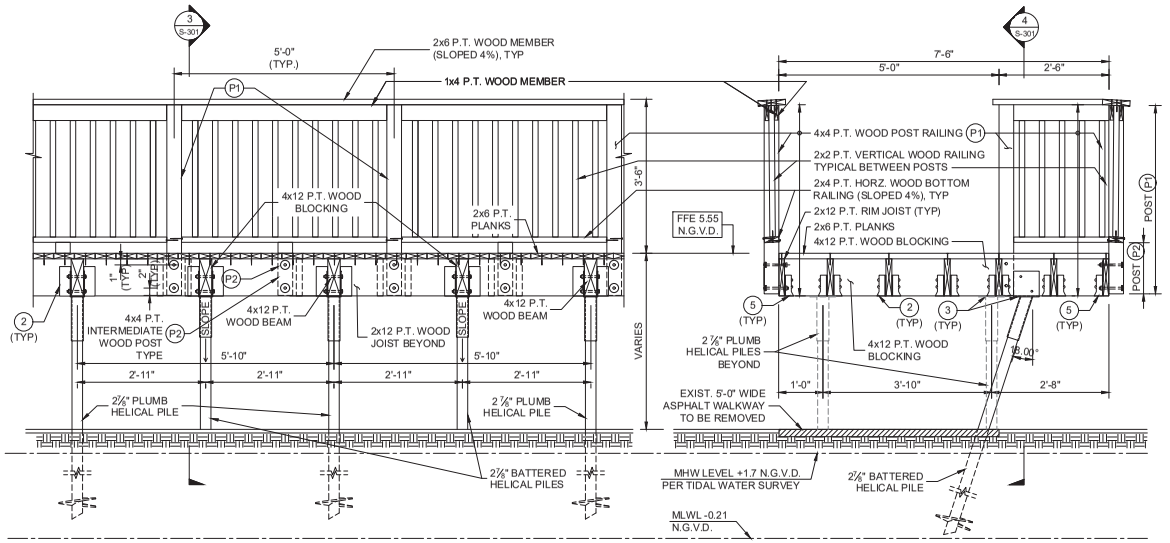
CONTRACT No
999999-15-012

S-300

Sheet
09 of 13

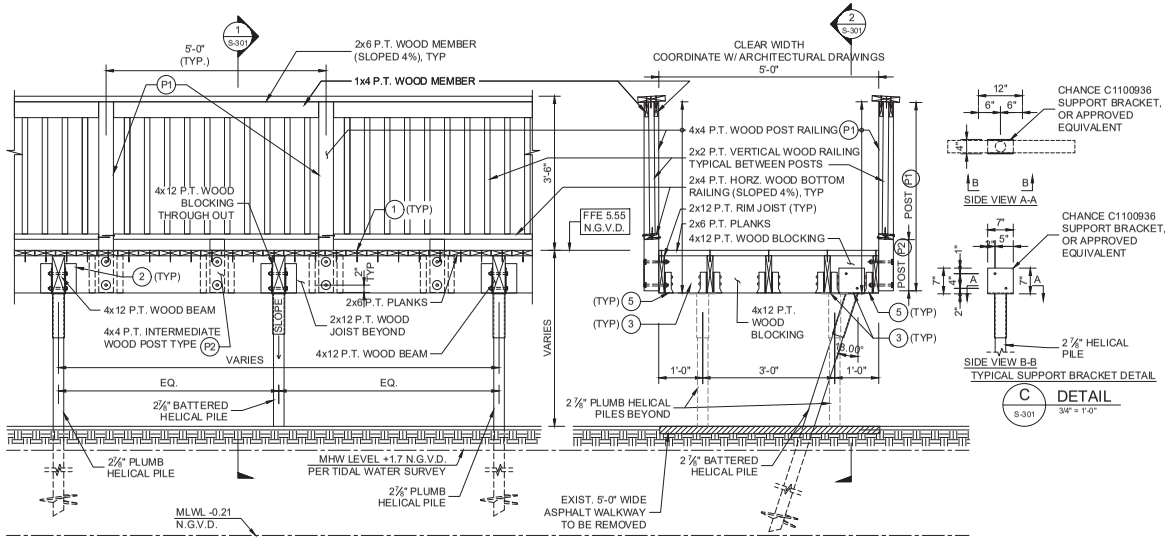
100% CONSTRUCTION DOCUMENTS

MDC065



4 S-301 TYPICAL SECTION (BENCH AREA) 3/4" = 1'-0" LONGITUDINAL

3 S-301 TYPICAL SECTION (BENCH AREA) 3/4" = 1'-0" TRANSVERSE



2 S-301 TYPICAL SECTION 3/4" = 1'-0" LONGITUDINAL

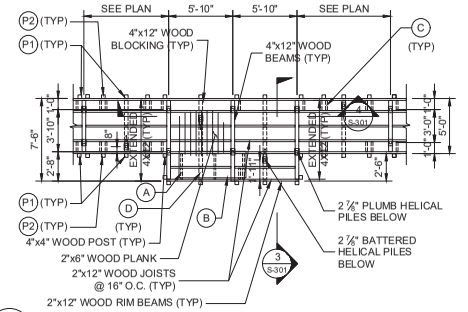
C S-301 DETAIL 3/4" = 1'-0"

NOTES:
1. DENOTES REFERENCE FASTENER TYPE. REFER TO SHEET S-301 FOR SCHEDULE

1 S-301 TYPICAL SECTION 3/4" = 1'-0" TRANSVERSE

FASTENER SCHEDULE

MARK TYPE	DESCRIPTION	FASTENERS W/ (N.O.A.) S.S. DENOTES STAINLESS STEEL
1	PLANK TO JOIST	(2) #10 X 2½" T-25. FLAT HEAD, TYPE 316 STAINLESS STEEL DECK-DRIVE DWP WOOD SCREWS AT EACH JOIST.
2	JOIST TO BEAM	SIMPSON LUS 210 S.S. WITH (8) 10D X 1½" S.S. NAILS TO BEAM AND (4) 10D X 1½" S.S. NAILS TO JOIST. (FL. 10655)
3	4X12 BEAMS TO HELICAL PILES	U-BUCKET BRACKET W/ (2) 1/2"Ø THRU BOLTS TO BEAM OR APPROVED EQUIVALENT
4	JOIST TO CONCRETE	SIMPSON HUS 212 S.S. WITH (6) 10D X 1½" S.S. NAILS TO JOIST AND (16) 1/4"Ø X 1¾" HEX HEAD TITEN 2 SCREWS S.S. INTO CONCRETE. (FL. 10655)
5	RIM JOIST TO BEAM	SIMPSON LUC 210Z S.S. WITH (10 16D X 1½" S.S. NAILS TO BEAM AND (6) 10D X 1½" S.S. NAILS TO RIM JOIST. (FL. 10655)
6	(2) 2X12 RIM BEAMS THRU SILL PLATE INTO CONC. WALL	L8X8X1/2" (LLV) S.S. X 8" LONG W/ (2) 1/2"Ø S.S. THRU-BOLTS TO BEAMS AND (2) - 5/8"Ø X 9" EMBEDMENT ANCHOR BOLT.
7	JOIST TO SILL PLATE	SIMPSON L50 S.S. W/ (6) 10D X 1½" S.S. NAILS (FL. 10446)
8	SILL PLATE TO CONC. WALL	1/2"Ø S.S. ANCHOR BOLTS SPACED AT 12" O.C. (9" EMBEDMENT INTO CONC.)



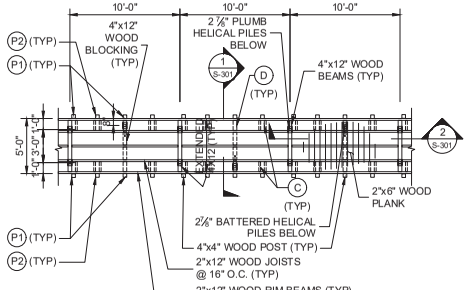
B S-301 TYPICAL FRAMING PLAN VIEW DETAIL (BENCH AREA) 3/16" = 1'-0"

NOTES:
1. WOOD
ALL WOOD MEMBERS TO BE SOUTHERN PINE N°2 OR BETTER WITH MINIMUM ALLOWABLE BENDING STRESS OF 850 PSI. MODULUS OF ELASTICITY=1,200,000 PSI.

2. HELICAL PILES
ALL HELICAL PILES TO BE DRILLED TO REQUIRED DEPTH AND UNTIL REQUIRED TORQUE RATING HAS BEEN REACHED. SEE SHEET S-304 FOR COMBO-PILE ASSEMBLY DETAILS.

3. WOOD POST LEGEND:
(P1) DENOTES 4x4 P.T. WOOD POST RAILING HEIGHT (SEE SECTION FOR EXTENTS)
CONNECT TO 2X WOOD RIM BEAM W/ (2) 1/2"~ THROUGH BOLTS W/ NUT AND 2½"Ø WASHER ASSEMBLY, TYP.

(P2) DENOTES 4x4 P.T. WOOD POST TO BOTTOM OF WOOD BOTTOM RAILING (SEE SECTION FOR EXTENTS)
CONNECT TO 2X WOOD RIM BEAM W/ (2) 1/2"~ THROUGH BOLTS W/ NUT AND 2½"Ø WASHER ASSEMBLY, TYP.



A S-301 TYPICAL FRAMING PLAN VIEW DETAIL 3/16" = 1'-0"

NOTES:
1. WOOD
ALL WOOD MEMBERS TO BE SOUTHERN PINE N°2 OR BETTER WITH MINIMUM ALLOWABLE BENDING STRESS OF 850 PSI. MODULUS OF ELASTICITY=1,200,000 PSI.

2. HELICAL PILES
ALL HELICAL PILES TO BE DRILLED TO REQUIRED DEPTH AND UNTIL REQUIRED TORQUE RATING HAS BEEN REACHED. SEE SHEET S-304 FOR COMBO-PILE ASSEMBLY DETAIL.

3. WOOD POST LEGEND:
(P1) DENOTES 4x4 P.T. WOOD POST RAILING HEIGHT (SEE SECTION FOR EXTENTS)
CONNECT TO 2X WOOD RIM BEAM W/ (2) 1/2"~ THROUGH BOLTS W/ NUT AND 2½"Ø WASHER ASSEMBLY, TYP.

(P2) DENOTES 4x4 P.T. WOOD POST TO BOTTOM OF WOOD BOTTOM RAILING (SEE SECTION FOR EXTENTS)
CONNECT TO 2X WOOD RIM BEAM W/ (2) 1/2"~ THROUGH BOLTS W/ NUT AND 2½"Ø WASHER ASSEMBLY, TYP.

NOTES LEGEND:
(A) DENOTES EQUIPMENT, ADD 2x BLOCKING BELOW ATTACHMENTS SUPPORTING POINTS.

(B) DENOTES BENCH, ADD 2x BLOCKING BELOW ATTACHMENTS.
CONNECT BENCH W/ L2"x2"x1/8" x 0'-2" LG AT EACH LEG, CONNECT W/ (1) SDS 1/4"~ S.S. SCREW BY SIMPSON OR EQUAL TO BENCH LEGS AND THRU WOOD PLANK TO WOOD BLOCKING BELOW TYPICAL UNLESS NOTES. SEE DETAIL C/S-303

(C) DENOTES 2x12 WOOD BLOCKING BELOW, TYPICAL THROUGH UOUT. CONNECT W/ (3) 16d x 3½" S.S. NAILS TO EACH WOOD BEAM EACH SIDE

(D) DENOTES 4x12 WOOD BLOCKING BELOW.

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Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD. CORAL GABLES. FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TYPICAL FRAMING PLAN VIEW AND TYPICAL SECTIONS
SHEET 1 OF 3

No	Revisions Description	Date

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHECKED BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No 999999-15-012

S-301

Sheet 10 of 13

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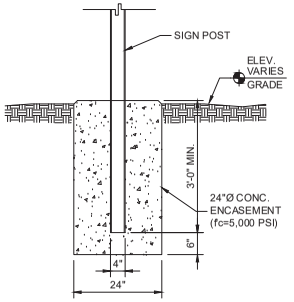
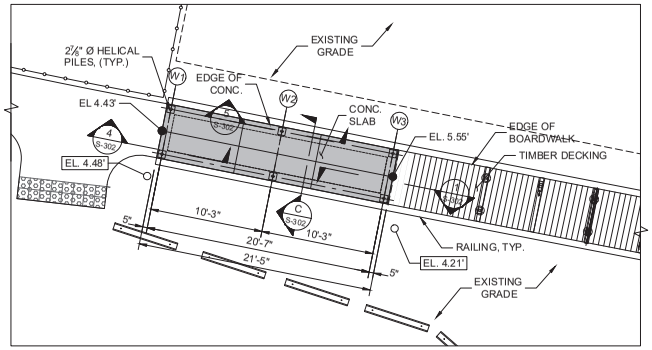
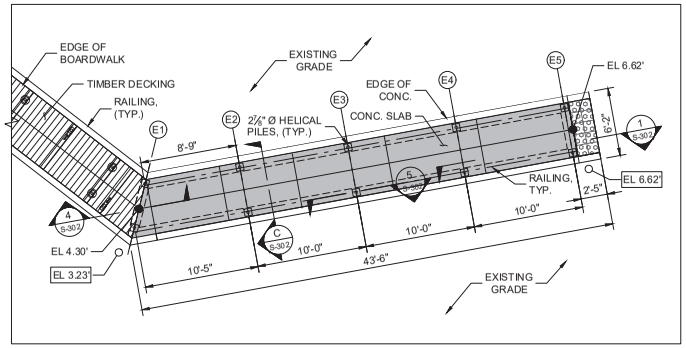


1 S-302 SMALL SIGN FOUNDATION
3/4" = 1'-0"

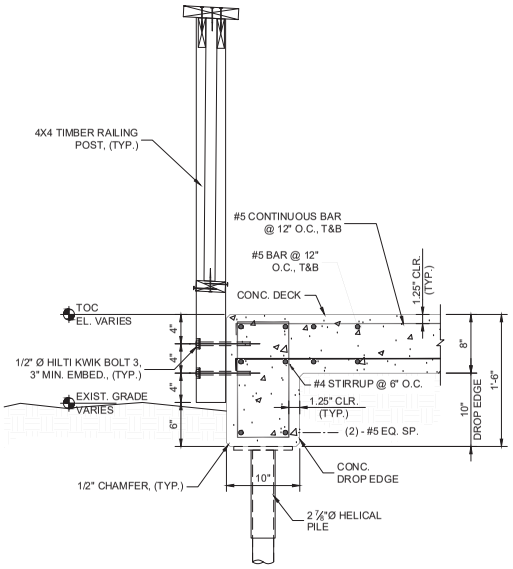


A S-302 PLAN - WEST TRANSITION FOUNDATION
3/16" = 1'-0"

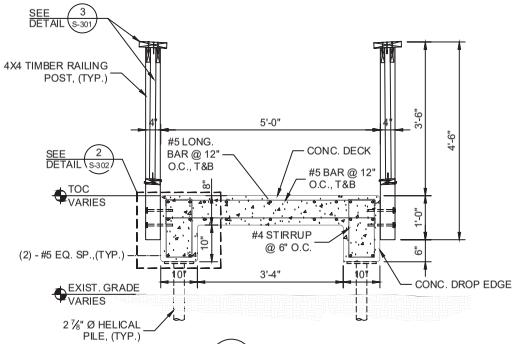


B S-302 PLAN - EAST TRANSITION FOUNDATION
3/16" = 1'-0"

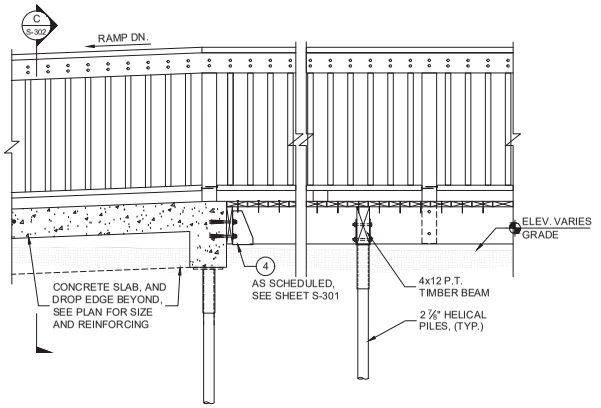
NOTES:
1. HELICAL PILES:
   ALL HELICAL PILES TO BE DRILLED TO REQUIRED DEPTH AND UNTIL REQUIRED TORQUE RATING HAS BEEN REACHED.
2. SLAB NOTE:
   8" STRUCTURAL CONCRETE SLAB REINFORCED W/ #5 BARS @ 12" O.C. TOP & BOTTOM, AND #4 CLOSED TIES @ 6" O.C. SEE ARCHITECTURAL DWG'S AND COORDINATE DIMENSIONS, SLAB SLOPES AND RAMP START POINTS (TYP.).



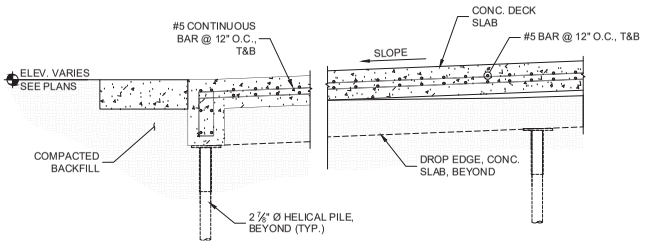
2 S-302 EDGE DETAIL
1-1/2" = 1'-0"



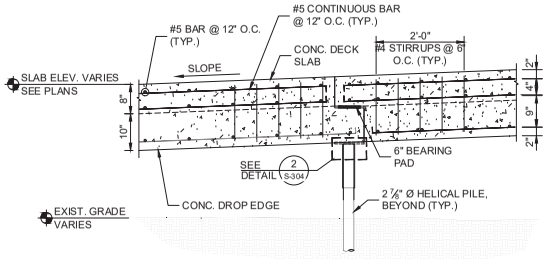
C S-302 SECTION
3/4" = 1'-0"



4 S-302 SECTION
3/4" = 1'-0"



3 S-302 SECTION
3/4" = 1'-0"



5 S-302 SECTION
3/4" = 1'-0"

0 1/2" 1" 1-1/2"
SCALE: 1-1/2" = 1'-0"

0 1' 2' 3'
SCALE: 3/4" = 1'-0"

0 4' 8' 12'
SCALE: 3/16" = 1'-0"

100% CONSTRUCTION DOCUMENTS

MDC066

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD. CORAL GABLES. FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TYPICAL FRAMING PLAN VIEW AND TYPICAL SECTIONS
SHEET 2 OF 3

No	Date	Description	Revisions

DESIGNED BY: RP H	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-302

Sheet
11 of 13

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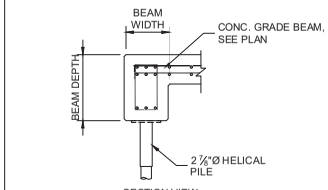
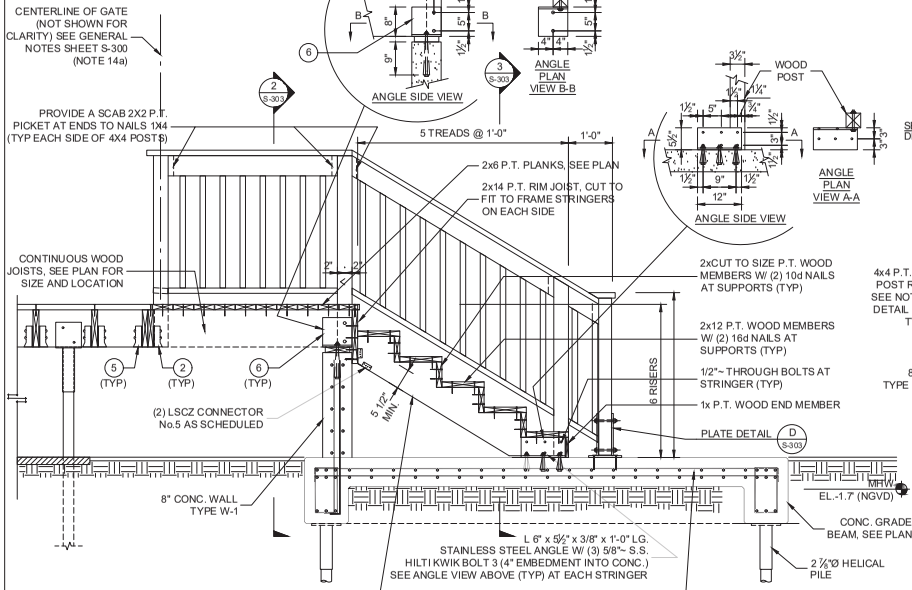
MDC067



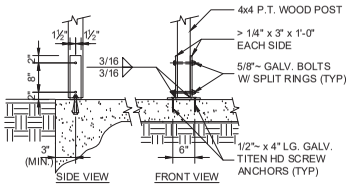
SECTION VIEW

TYPICAL PRECAST CONC. PILES TO GRADE BEAM DETAIL

B S-303 DETAIL NO SCALE



1 S-303 SECTION 3/4" = 1'-0"



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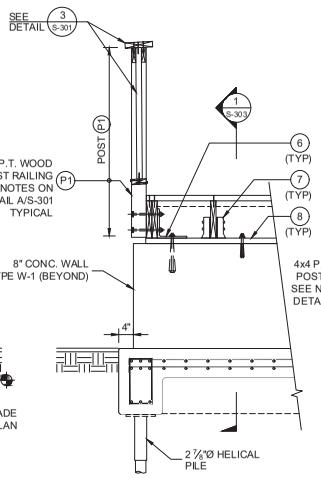

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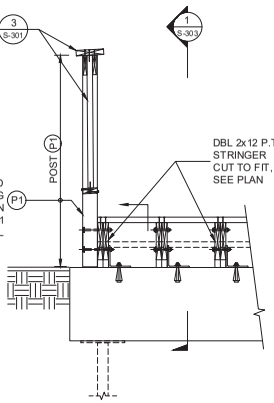
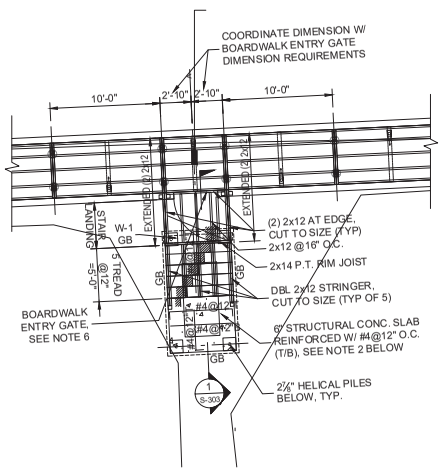


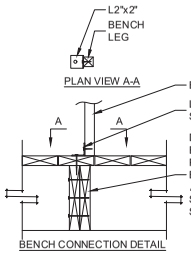
3 S-303 SECTION 3/4" = 1'-0"



N A S-303 TYPICAL FRAMING PLAN VIEW DETAIL (STAIR) 3/16" = 1'-0"

NOTES:

1. HELICAL PILES:
   ALL HELICAL PILES TO BE DRILLED TO REQUIRED DEPTH AND UNTIL REQUIRED TORQUE RATING HAS BEEN REACHED.
2. SLAB NOTE:
   6" STRUCTURAL CONCRETE SLAB ON GRADE REINFORCED W/ #4@12" O.C. (TEMP)
3. GRADE BEAM NOTED AS GB IS AN 18" WIDE x 20" DEEP GRADE BEAM REINFORCED AS FOLLOWS: (2)-#6 TOP & BOTTOM AND #3 CLOSED TIES @12" O.C. SEE DETAIL A/S-303 FOR TYPICAL CONNECTION TO PILE
4. W-1 DENOTES AN 8" CONCRETE WALL REINFORCED W/ #4@12" O.C. VERTICAL AND HORIZONTAL
5. BOARDWALK ENTRY GATE:
   SEE GENERAL STRUCTURAL NOTES SHEET S-300, NOTE 14a



C S-303 SECTION 3/4" = 1'-0"

NOTE-A

1. CONNECT BENCH W/ L2"x2"x1/8" x 0'-2" LG AT EACH LEG, CONNECT W/ (1) SDS 1/4"~ S.S. SCREW BY SIMPSON OR EQUAL TO BENCH LEGS AND THRU WOOD PLANK TO WOOD BLOCKING BELOW. TYPICAL UNLESS NOTED.
2. DENOTES 2x12 WOOD BLOCKING BELOW, TYPICAL THROUGH OUT. CONNECT W/ (3) 16d x 3½" S.S. NAILS TO EACH WOOD BEAM EACH SIDE

100% CONSTRUCTION DOCUMENTS

KIRK J. OLNEY
LANDSCAPE ARCHITECT
4711 SOUTH LEJEUNE ROAD
CORAL GABLES, FL 33146 TEL: 786.444.0500

MIAMI-DADE PARKS, RECREATION & OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
TYPICAL FRAMING PLAN VIEW AND TYPICAL SECTIONS
SHEET 3 OF 3

No	Date	Description
Revisions		

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHECKED BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-303

Sheet
12 of 13

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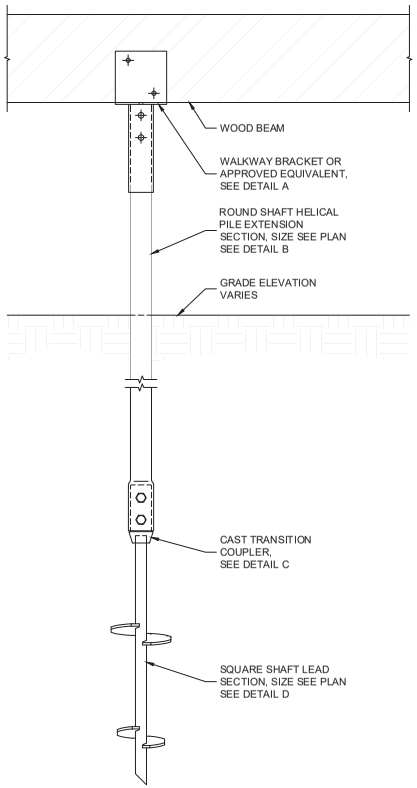
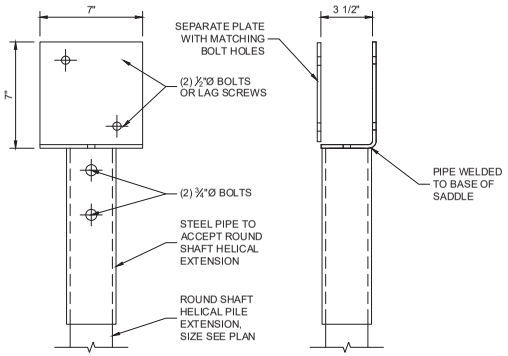
MDC068



1 HELICAL PILE FOUNDATION ASSEMBLY DETAIL
1-1/2" = 1'-0"



A WALKWAY BRACKET DETAIL
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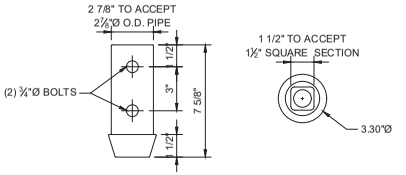
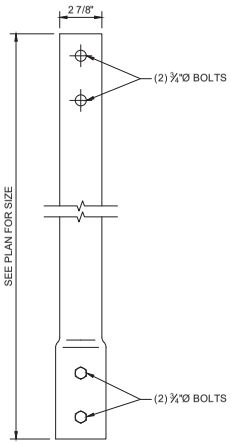
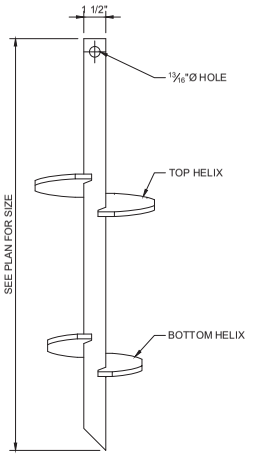


C CAST TRANSITION COUPLER DETAIL
3" = 1'-0"



B ROUND SHAFT HELICAL EXTENSION DETAIL
3" = 1'-0"



D SQUARE SHAFT LEAD DETAIL
3" = 1'-0"

100% CONSTRUCTION DOCUMENTS

KIRK J. OLNEY
LANDSCAPE ARCHITECT
FLA REGISTRATION NO. 6666666
CORAL GABLES, FL 33146 • TEL: 305-444-4000

MIAMI-DADE PARKS, RECREATION AND OPEN SPACES

Bermello Ajamil & Partners, Inc.
Consulting Architects & Landscape Architects
4711 SOUTH LEJEUNE ROAD, CORAL GABLES, FL 33146

Project Title:
MATHESON HAMMOCK PARK
MANGROVE TRAIL RENOVATION
9610 OLD CUTLER ROAD
CORAL GABLES, FL. 33156

Sheet Title:
HELICAL PILE AND CONNECTION DETAILS

No	Date	Revisions Description

DESIGNED BY: RPH	DATE: 12/11/2023
DRAWN BY: LMA, LH	CHKD BY: KJO
PROJECT MANAGER: KIRK J. OLNEY	
PLOT SCALE: AS SHOWN	SIZE: ARCH D
FILE NAME:	

CONTRACT No
999999-15-012

S-304

Sheet
13 of 13

XREF: X-A-TBLK Matheson [--\JS_work\X-A-TBLK_Matheson.dwg]
XREF: X-A-ADD-H-BASE Matheson [--\JS_work\X-A-ADD-H-BASE_Matheson.dwg]
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XREF: S-304-Helical Matheson [--\JS_work\S-304-Helical Matheson.dwg]
DWG: Z:\Shared\AYH\2301\Production\Engineering\00_PROJECTS\(2207.000 - Matheson Hammock\XX_Drawings\XX_Sheets\X-S-304.dwg

Survey Date:
10/6/2023

Surveyors:
Natalie Bryce, Project Scientist, Cummins Cederberg
Hanna Winston, Associate Scientist II, Cummins Cederberg
Adria Gonzalez-Leiva, Structural Engineer, Captial Program Division, MDC PROS
Rockell Alhale, Manager, Coastal Resources Section, MDC DERM

Survey Notes:
1. Mangroves and buttonwoods within wetland habitat were flagged if will be altered by Project construction. Buttonwoods growing outside of wetland habitat were not flagged, counted, or measured.
2. Mangroves and buttonwoods within wetland habitat that will require trimming or alteration were measuredred (height, canopy width, canopy length), or included in a range covering multiple trees.
3. All impact quantities were measured as greater than 7'2" wide across the existing pathway and taller than 8' above the substrate. DERM Permit No. CC94-288 authorized trimming and encroachment within the existing pathway (5' wide path plus 1' on either side) to a vertical clearance of 8'. The 2" width beyond the 7' maintenance window was treated as negligible during field data collection, as 7' of maintenance trimming is already authorized.
4. Some trimming was quantified in ranges along the path. If mangroves were identified to be altered within a range, they were included in the trimming calculation. Additionally, several solitary altered trees fall outside of trimming ranges. As the trimming ranges are average measurements, the solitary altered trees are considered to be accounted for within trimming ranges.

Tree No.	Tree Species	Count	Impact Type	Mangrove Count to be Altered (for EEL)	Height	Canopy (W)	Canopy (L)	Range?	Notes	Total SF
A	BW	1	Trim	-	16.5	18	24		located at bollards	432
B	BW	1	Trim	-	11.5	8.5	6.8		located just east of bollards	57.8
C	RM	1	Trim	-	8	3.5	6.5		not flagged, only trimming 1 branch btw 6' - 14' H	22.75
D	RM	1	Alter	1	11	20	15		alteration btw 10' - 21' H	300
E	RM	1	Trim	-	5	9	8.5		trim btw 11' - 16' H; not flagged	76.5
F	RM	1	Alter	1	6	5	8		Canopy starts at 7' H, can trim btw 7' -8' H, alter btw 8' - 14' H	40
G	RM	2	Alter	1	6	4	11		2 trees, only 1 will be altered btw 8' - 14' H	44
H	BW	1	Alter	1	8	16	4		Alter btw 11' - 19' H	64
I	RM	1	Trim	-	2	4	7		trim btw 10' - 12' H	28
J	RM	2	Trim	-	5	9	7.5		2 trees, trim only	67.5
K	RM	multiple	Trim	-	7	4.5	14		multiple trees, trim only btw 8' - 15' H	63
L	RM	1	Trim	-	5	3.5	4		trim only btw 10' - 15' H	14
M	RM	1	Alter	1	4.5	5.5	6		Alter btw 8' - 12.5' H	33
N	RM + BW	2	Alter	2	10	17	11		RM + BW measured together, alter btw. 11' - 21' H	187
O	BW + WM	2	Trim	-	6	7	4		trim only btw 13' - 9' H	28
P	BW	1	Alter	1	8	7	10.5		alter btw. 8' - 16' H	73.5
Q	BW	1	Alter	1	5	6.5	7		canopy starts below 8'; alter btw 8' - 13' H	45.5
R	BW	1	Trim	-	4	4.5	6		trim btw 9' - 13' H	27
S	BW	1	Trim	-	2	4	6.5		trim btw 9' - 11' H	26
T	RM	1	Trim	-	3.5	3	5		trim btw 8' - 11.5' H	15
U	BW	1	Alter	1	18	17	18		alter btw. 8' - 20' H	306
V	BW	1	Alter	1	9	10	9		alter btw 9' - 18' H across the path from Tree V, R + W that could be pushed/tied back	90
W	RM	1	Trim	-	6	7	5		trim btw 10' - 16' H	35
X	BW	1	Trim	-	6	6	4		trim btw 11' - 17' H	24
Y	RM + BW	2	Trim	-	8	7	25		trim btw 8' - 16' H, lumping both sides of path together	175
Z	RM	1	Trim	-	7	7	6		trim btw 11' - 18' H	42
AA	BW	1	Alter	1	10	11	13.5		whole tree will need to be altered (btw 9' - 19' H)	148.5
AB	RM	2	Trim	-	4	1	9		trim btw 10' - 14' H; right past culvert	9
AC	RM + WM	2	Trim	-	9	7	19		trim btw 11' - 20' H	133
AD	WM	1	Alter	1	4	6	4		alter btw 12' - 16' H; other WMs after Tree AD can be moved/tied back	24
AE	RM	1	Trim	-	4	6	7		trim btw 10' - 14' without altering	42
AF	RM + BW	2	Trim	-	7	5	17		trim btw 9' - 16' H	85
AG	RM	2	Trim	-	5	8	13		trim btw 10' - 18' H, measured both sides of path together	104
AH	BW	1	Trim	-	1	3	2		trim btw 11' - 12' H	6
AI	WM	1	Alter	1	6.5	6	8		alter btw 9.5 ' - 16' H	48
AJ	WM	1	Trim	-	1	1	3		trim only	3
AK	RM	multiple	Trim	-	8	7	25	Yes	RANGE; trim btw 10' - 18' H	175
AL	RM	1	Alter	1	7	9	6		alter btw 9' - 16' H	54
AM	RM + BW	multiple	Trim	-	8	5	37	Yes	RANGE; trim btw 8' - 16' H	185
AN	BW	1	Alter	1	8	14	10		within AM range	140
AO	BW + RM	2	Trim	-	5	5	17		trim btw 9' - 14' H	85
AP	BW	1	Alter	1	3	4	5.5		alter btw. 10' - 13' H	22
AQ	BW + RM + WM	multiple	Trim	-	8	4	30	Yes	RANGE; BW on S side of path, R + W on N side; start range @ AP, end at no fishing sign	120
AR	RM	1	Alter	1	4	9	7		alter btw 10' - 14' H	63
AS	RM	1	Trim	-	5	3	7		trim btw 9' - 14' H	21
AT	WM	1	Alter	1	8	7	10		alter btw 8' - 16' H	70
AU	RM	multiple	Trim	-	4.5	5	46	Yes	RANGE; trim btw 9.5' - 14' H	230
AV	BW	1	Alter	1	16	9	10		just past culvert #2; within AU range	90
AW	BW	2	Trim	-	5	5	14		trim btw 8' - 13' H	70
AX	BW	1	Alter	1	2	3	9		alter btw 10' - 12' H	27
AY	BW	1	Alter	1	8	8	6		alter btw 8' - 16' H	48
AZ	RM	1	Trim	-	3	5	9		trim btw 8' - 11' H	45
BA	BW	2	Trim	-	7	6	9.5		trim btw 8' - 15' H	57
BB	RM	1	Alter	1	2	4	5		alter btw 12' - 14' H; located just W of culvert #3	20
BC	RM + BW	multiple	Trim	-	6	5	78	Yes	RANGE; trim btw 9' - 15' H	390
BD	RM + WM	multiple	Trim	-	6	5	126	Yes	RANGE; trim btw 9' - 15' H	630

Alteration

Total # Trees to Be Altered:	**67**
Altered Trees (#) by Species:	
Buttonwood	**15**
Red	**48**
White	**4**
Black	**0**
Total SF to be altered*:	**1,937.50**

**note: individual altered mangroves within ranges to be trimmed include altered mangroves*

Trimming

Total SF to be trimmed:	**11,801.05**

MDC069

Tree No.	Tree Species	Count	Impact Type	Mangrove Count to be Altered (for EEL)	Height	Canopy (W)	Canopy (L)	Range?	Notes	Total SF
BE	RM	1	Alter	1					within BD range; accounted for in BD trimming calculation	0
BF	RM	1	Alter	1					within BD range; accounted for in BD trimming calculation	0
BG	RM	1	Alter	1					within BD range; accounted for in BD trimming calculation	0
BH	RM	1	Alter	1					within BD range; accounted for in BD trimming calculation	0
BI	RM	1	Alter	1					within BD range; accounted for in BD trimming calculation	0
BJ	RM + WM	multiple	Trim	-	5	5	50	Yes	RANGE; trim btw 10' - 15' H	250
BK	RM	1	Alter	1					within BJ range; accounted for in BJ trimming calculation	0
BL	RM	1	Alter	1					within BJ range; accounted for in BJ trimming calculation	0
BM	RM	1	Alter	1					within BJ range; accounted for in BJ trimming calculation	0
BN	RM	multiple	Trim	-	3	5	60	Yes	RANGE; trim btw 12' - 15' H	300
BO	RM + BW	multiple	Trim	-	5	5	116.5	Yes	RANGE; trim btw 10' - 15' H	582.5
BP	BW	1	Alter	1					within BO range; accounted for in BO trimming calculation	0
BQ	RM	1	Alter	1					within BO range; accounted for in BO trimming calculation	0
BR	RM	1	Alter	1					within BO range; accounted for in BO trimming calculation	0
BS	WM	1	Alter	1					within BO range; accounted for in BO trimming calculation	0
BT	RM	1	Alter	1					within BO range; accounted for in BO trimming calculation	0
BU	RM + BW	multiple	Trim	-	3	5	133	Yes	RANGE; trim btw 12' - 15' H	665
BV	RM	1	Alter	1					within BU range; accounted for in BU trimming calculation	0
BW	RM	multiple	Trim	-	5	5	158	Yes	RANGE; trim btw 10' - 15' H	790
BX	RM	1	Alter	1					within BW range; accounted for in BW trimming calculation	0
BY	RM	1	Alter	1					within BW range; accounted for in BW trimming calculation	0
BZ	RM	1	Alter	1					within BW range; accounted for in BW trimming calculation	0
CA	RM	1	Alter	1					between BW and CB ranges; accounted for in range trimming calculations	0
CB	RM + BW	multiple	Trim	-	4	5	162	Yes	RANGE; trim btw 11' - 15' H	810
CC	RM	1	Alter	1					within CB range; accounted for in CB trimming calculation	0
CD	RM	1	Alter	1					within CB range; accounted for in CB trimming calculation	0
CE	RM	multiple	Trim	-	4	5	157	Yes	RANGE; trim btw 11' - 15' H	785
CF	RM	1	Alter	1					within CE range; accounted for in CE trimming calculation	0
CG	RM	1	Alter	1					within CE range; accounted for in CE trimming calculation	0
CH	RM	1	Alter	1					within CE range; accounted for in CE trimming calculation	0
CI	RM	1	Alter	1					within CE range; accounted for in CE trimming calculation	0
CJ	RM	1	Alter	1					within CE range; accounted for in CE trimming calculation	0
CK	RM	multiple	Trim	-	4	5	178	Yes	RANGE; trim btw 11' - 15' H	890
CL	RM	1	Alter	1					within CK range; accounted for in CK trimming calculation	0
CM	RM	1	Alter	1					immiedatly east of CK range; accounted for in CK trimming calculation	0
CN	RM	1	Alter	1					east of CK range; accounted for in CK trimming calculation	0
CO	BM	1	-	-					move railing to avoid large black mangrove	0
CP	RM	1	Alter	1					accounted for in other trimming calculations; located hear opening for stairs	0
CQ	RM	multiple	Trim	-	3	5	200	Yes	RANGE; trim btw 12' - 15' H	1000
CR	RM	1	Alter	1					within CQ range; accounted for in CQ trimming calculation	0
CS	RM	1	Alter	1					within CQ range; accounted for in CQ trimming calculation	0
CT	RM	1	-	-					potential notch of railing to avoid white mangrove	0
CU	RM	multiple	Trim	-	4	5	163	Yes	RANGE; trim btw 11' - 15' H	815
CV	RM	1	Alter	1					within CU range; accounted for in CU trimming calculation	0
CW	RM	1	-	-					Flagged, but could be notched to avoid alteration	0

MDC070

Tree No.	Tree Species	Count	Impact Type	Mangrove Count to be Altered (for EEL)	Height	Canopy (W)	Canopy (L)	Range?	Notes	Total SF
CX	RM + WM	multiple	Trim		4	5	200	Yes	RANGE; trim btw 11' - 15' H	1000
CY	RM	1	Alter	1					within CX range; accounted for in CX trimming calculation	0
CZ	RM	1	Alter	1					within CX range; accounted for in CX trimming calculation	0
DA	RM	1	Alter	1					within CX range; accounted for in CX trimming calculation	0
DB	BW	1	Alter	1					accounted for in other trimming calculations	0
DC	RM	1	Alter	1					accounted for in other trimming calculations	0
DD	RM	1	Alter	1					accounted for in other trimming calculations	0
DE	RM	1	Alter	1					accounted for in other trimming calculations	0
DF	BW	1	Alter	1					accounted for in other trimming calculations, located west of concrete headwall	0
DG	RM + BW	multiple	Trim	-	4	5	78	Yes	RANGE; trim btw 11' - 15' H	390
DH	RM	1	Alter	1					within DG range; accounted for in DG trimming calculation	0
DI	RM	1	Alter	1					within gap adjacent to DG range; accounted for in DG trimming calculation	0
DJ	RM	1	Alter	1					within gap adjacent to DG range; accounted for in DG trimming calculation	0
DK	RM	1	Alter	1					within gap adjacent to DG range; accounted for in DG trimming calculation	0
DL	RM	1	-						Notch railing to avoid mangrove	0
									TOTAL	**13,738.55**

MDC071

Attachment C

Names and Addresses of Owners of All Riparian or Wetland Property within Three Hundred (300) Feet of the Proposed Work

MICHAEL L KATZ &W VALERIE
9560 JOURNEYS END RD
CORAL GABLES, FL 33156-2246

ALEX KRYS
JULIANA KRYS
9570 JOURNEYS END RD
CORAL GABLES, FL 33156

JOURNEYS END HOMEOWNERS ASSN INC
9400 S DADELAND BLVD STE 100
MIAMI, FL 33156

LOUIS WOLFSON III &W ELLEN D
9595 JOURNEYS END LANE
CORAL GABLES, FL 33156-2251

SOFLA LLC
9501 JOURNEYS END LN
CORAL GABLES, FL 33156

MICHAEL M NOELL TRS
MICHAEL M NOELL REV TR
PO BOX 2207
VAIL, CO 81658

MIGUEL F DUENAS
C/O DIMENSION CAPITAL MGMT
VIVIAN DUENAS
2800 PONCE DE LEON BLVD 15FL
CORAL GABLES, FL 33134

JUERGEN WENDLAND & W JENNY
9370 GALLARDO ST
CORAL GABLES, FL 33156-2362

FRANCISCO G TUDELA
MERCEDES TUDELA
9370 BALADA ST
CORAL GABLES, FL 33156-2361

ROLAND SANCHEZ MEDINA JR TRS
9375 BALADA LAND TRUST
9375 BALADA ST
CORAL GABLES, FL 33156

MARK LOSADA & W MARY JANE
9380 GALLARDO ST
CORAL GABLES, FL 33156-2362

JORGE L RODRIGUEZ
ADIANEZ RODRIGUEZ
9385 GALLARDO ST
CORAL GABLES, FL 33156

CARLOS E PADRON &W
CRISTINA PADRON
9375 GALLARDO ST
CORAL GABLES, FL 33156-2334

TERRY J BLUMER
60 SOLANO PRADO
CORAL GABLES, FL 33156-2348

DAVID A SCHWEDEL
MARIA I SCHWEDEL
55 SOLANO PRADO
CORAL GABLES, FL 33156

ANGEL M REYES & W CAROLYN L
75 SOLANO PRADO
CORAL GABLES, FL 33156-2347

ANTHONY ROMEO
CAROLINA ROMEO
9100 S DADELAND BLVD 408
MIAMI, FL 33156

MARIO R LAMAR
PATRICIA BENITEZ LAMAR
95 SOLANO PRADO
CORAL GABLES, FL 33156

PATRICIA SCHNEIDER
101 SOLANO PRADO
CORAL GABLES, FL 33156-2349

THOMAS H COOK &W CINDI J
115 SOLANO PRADO
CORAL GABLES, FL 33156-2349

MARK L HEIMBOUCH TRS
MARK L HEIMBOUGH REVOCABLE TRUST
125 SOLANO PRADO
CORAL GABLES, FL 33156

ADAM L YUNIS
135 SOLANO PRADO
CORAL GABLES, FL 33156-2349

EDUARDO ROBAYNA &W
ANA ROBAYNA
141 SOLANO PRADO
CORAL GABLES, FL 33156-2349

ANGEL I ALVAREZ LE
REM ANGEL I ALVAREZ REV TR
145 SOLANO PRADO
CORAL GABLES, FL 33156

GILBERT J FIORENTINO TRS
FIORENTINO FAMILY SPLIT
PURCHASE TR
153 SOLANO PRADO
CORAL GABLES, FL 33156

THOMAS G ABRAHAM &W SUSAN G
155 SOLANO PRADO
CORAL GABLES, FL 33156-2349

Attachment D

Zoning Memorandum

Memorandum

Date: May 1, 2024

To: Martha Garcia Lastre, Senior Manager
Natural Resources Division
Department of Regulatory and Economic Resources

From: Rockell Alhale, Manager
Coastal Resources Section
Department of Regulatory and Economic Resources

Subject: Class I Permit Application by the Miami-Dade County, through its Parks, Recreation, and Open Spaces Department for the Alteration of Mangroves within a Coastal Band Community and the Filling of Halophytic Wetlands in Association with the Installation of an Elevated Boardwalk within Matheson Hammock Park at 9610 Old Cutler Road, Coral Gables, Miami-Dade County, Florida.

Pursuant to Section 24-48.2(II)(B)(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 Miami-Dade County Board of County Commissioners and prior to issuance of the Class I permit.

Attachment E

DERM Project Report

CLASS I PERMIT APPLICATION NO. CLI-2020-0460

Class I Permit Application by Miami-Dade County, through its Parks, Recreation, & Open Spaces Department, for the Alteration of Mangroves within a Coastal Band Community and the Filling of Wetlands Supporting Halophytic Vegetation In Association with the Installation of an Elevated Boardwalk within Matheson Hammock Park at 9610 Old Cutler Road, Coral Gables, Miami-Dade County, Florida.

DATE: July 5, 2024

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, Florida (Code). The following is a summary of the proposed project with respect to each applicable evaluation factor:

1. **Potential Adverse Environmental Impact** – 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 and mitigation is required for permittable projects that otherwise result in adverse environmental impacts. The mitigation required to compensate for the water quality impacts associated with the filling of halophytic wetlands would be satisfied through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund. In addition, the project proposes approximately 13,738 square feet of mangrove trimming and alteration, the minimum necessary for the installation of the boardwalk at an elevation sufficient to account for sea level rise. Upon completion of the proposed work, it is reasonably anticipated that mangroves would continue to naturally recruit along the boardwalk. Mitigation associated with the removal of mangrove canopy would be satisfied through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund to be used by the Environmentally Endangered Lands (EEL) program to fund and complete a wetland restoration project within Matheson Hammock Park. In addition, the project area would also be maintained free of exotic pest plants and nuisance species in accordance with the Class I permit conditions.

2. **Potential Cumulative Adverse Environmental Impact** – The proposed project is not reasonably expected to result in cumulative adverse environmental impacts as set forth in Number 1 above.

3. **Hydrology** - The proposed project 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 construction operations. Any temporary water quality impacts would be minimized through the implementation of proper turbidity controls, including silt fencing, throughout construction operations to ensure that State and County water quality standards are met.

5. **Wellfields** – The proposed project is not reasonably expected to adversely affect wellfields.

6. **Water Supply** – The proposed project is not reasonably expected to adversely affect water supply.

7. **Aquifer Recharge** – The proposed project is not reasonably expected to adversely affect aquifer recharge.

8. **Aesthetics** – The proposed project is not reasonably expected to adversely affect aesthetics.

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 is not reasonably expected to adversely affect marine and wildlife habitats as set forth in Number 1 above.

15. **Wetland Soils Suitable for Habitat** – The proposed project involves the filling of wetlands which will be mitigated as set forth in Number 1 above.

16. **Floral Values –** The proposed project is not reasonably expected to adversely affect floral values as set forth in Number 1 above.

17. **Fauna Values -** The proposed project is not reasonably expected to adversely affect faunal values as set forth in Number 1 above.

18. **Rare, Threatened and Endangered Species** – The proposed project is not reasonably expected to adversely affect rare, threatened and endangered species.

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 is not reasonably expected to adversely affect wetland values as set forth in Number 1 above.

21. **Land Use Classification** –Pursuant to Section 24-48.2(II)(B)(7) of the Code of Miami-Dade County, Florida, a substantiating letter stating that the proposed project does not violate any zoning laws, or a plan approval, would be submitted prior to permit issuance. Said letter or plan approval would 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 element of the Miami-Dade County Comprehensive Development Master Plan.

23. **Other Environmental Values Affecting the Public Interest** – The proposed project is not reasonably expected to adversely affect other environmental values affecting the public interest. The proposed project will occur on lands owned by the applicant, and it is improving upon a public use.

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 Code of Miami-Dade County and the Miami-Dade County Public Works Manual.

25. **Comprehensive Environmental Impact Statement (CEIS)** - In the opinion of the Director, the proposed project is not reasonably expected to result in significant adverse environmental impacts or 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 applicable State, Federal and local laws and regulations:
    a) Chapter 24 of the Code of Miami-Dade County
    b) United States Clean Water Act (US Army Corps of Engineers permit is required)
    c) Florida Department of Environmental Protection (permit is required)

27. **Conformance with the Miami-Dade County Comprehensive Development Master Plan (CDMP)** - In the opinion of the Director, the proposed project is consistent as required by CDMP policy LU-3A, with the goals, objectives and policies contained in the Conservation, Aquifer Recharge and Drainage and Coastal Management Elements of this Plan, and with all applicable environmental regulations, as well as other elements of the CDMP. The following is a summary of the proposed project as it relates to the CDMP:

LAND USE ELEMENT I:

Objective 3/Policies 3A, 3B, 3C - Protection of natural resources and systems. – The proposed project is consistent with all applicable environmental regulations, 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 AV-5A - 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 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 is not reasonably expected to adversely affect water storage, aquifer recharge potential or natural surface water drainage.

Objective 5/Policies 5A, 5B, 5F - Flood protection and cut and fill criteria – The proposed project will not compromise flood protection.

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 7/Policy 7A - Wetland protection and restoration. – The project is clearly in the public interest for the reasons stated below with respect to Policy CM-1A. Furthermore, no other reasonable alternative exists. To mitigate for otherwise permittable impacts, the applicant has proposed to mitigate for the impacts to wetlands and mangroves through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund (BBEETF) to be used by the Environmentally Endangered Lands (EEL) program to fund and complete a wetland restoration project within Matheson Hammock Park. It is not anticipated that the project would adversely impact habitats critical to endangered or threatened species.

Objective 7/Policy 7C, 7D, 7J - Wetland protection and restoration. – The proposed project is not reasonably expected to adversely affect wetlands as set forth in Number 1 above.

Objective 9/Policies 9A, 9B, 9C - Protection of habitat critical to Federal or State-designated threatened or endangered species. – The proposed project is not reasonably expected to adversely affect habitat critical to Federal or State-designated threatened or endangered species, and the impacts have been minimized and will be mitigated.

COASTAL MANAGEMENT ELEMENT VII:

Objective 1/Policy 1A – Mangrove wetlands within Mangrove Protection Areas –The project area is designated by the Miami-Dade County Comprehensive Development Master Plan (CDMP) as a Mangrove Protection Area. Trimming within a Mangrove Protection Area must be consistent with the criteria outlined in the Coastal Management Element of the CDMP. The CDMP states that in areas classified as Mangrove Protection Areas, there shall be "no cutting, trimming, pruning or other alteration including dredging or filling of mangroves" unless the project is "(1) necessary to prevent or eliminate a threat to public health, safety or welfare; (2) water dependent; (3) required for natural system restoration and enhancement; or (4) clearly in the public interest; and where no reasonable upland alternative exists. In such cases, the trimming or alteration shall be kept to the minimum, and done in a manner which preserves the functions of the mangrove system, and does not reduce or adversely affect habitat used by endangered or threatened species". The existing asphalt pathway has degraded to the point where sections are missing and due to the pathway's low elevation, frequently floods during extreme rain and tidal events. The pathway serves as the only pedestrian access from Old Cutler Road into Matheson Hammock Park and must be replaced to allow continued pedestrian access to the park. There are no reasonable upland alternative locations for the proposed boardwalk as the surrounding area is comprised of mangrove wetlands. The installation of the proposed boardwalk in an alternative location would result in significantly more impacts to mangrove wetlands than the proposal to install the boardwalk within the footprint of the existing, legal pathway. The proposed elevated boardwalk would provide a safe and structurally sound path for public use that is designed to account for future sea level rise. Additionally, the boardwalk would allow for tidal flushing of the adjacent mangroves and would prevent unauthorized, off-trail access. Matheson Hammock Park is designated as a Heritage Park in Miami-Dade County and as a Historic Site listed in the Coral Gables Register of Historical Places, and replacing the existing, on-grade walkway with an elevated, resilient and accessible boardwalk within the same footprint is clearly in the public interest. For all of the reasons stated herein, the proposed work is consistent with this policy as the work is clearly in the public interest. Furthermore, the proposed trimming and alteration has been minimized and would be done in a manner that preserves the function of the mangrove system and does not reduce or adversely affect habitat used by endangered or threatened species. The Class I permit would include authorization for the future maintenance trimming and alteration of mangroves along the boardwalk to maintain clearance.

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

Objective 1/ Policy 1C - Elevated boardwalk access through mangroves. – The proposed project involves the construction of an elevated walkway through mangroves. The proposed boardwalk is within the footprint of the previously existing walkway but would be elevated which would allow for tidal flushing and vegetative growth under the structure. Impacts to the surrounding mangrove system would be minimized through appropriate construction methodology and equipment.

Objective 1/Policy 1D - Protection and maintenance of mangrove forests and related natural vegetational communities. – The project involves the removal of mangroves which would be mitigated as set forth in Number 1 above. The proposed trimming and alteration has been minimized and would be done in a manner that preserves the function of the mangrove system, including the preservation of the mangrove seed source to the greatest extent possible, and does not adversely affect habitat. Upon completion of the proposed work, it is reasonably anticipated that mangroves would continue to naturally recruit along the boardwalk.

Objective 1/Policy 1E - Mitigation for the degradation and destruction of coastal wetlands. Monitoring and maintenance of mitigation areas. – The project involves the removal of mangroves within coastal wetlands which would be mitigated as set forth in Number 1 above.

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 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/Policies 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 4/Policy 4A, 4C, 4E, 4F – Protection of endangered or threatened animal species. – The proposed project is not reasonably expected to result in impacts to endangered or threatened species.

Objective 5/Policy 5B - Existing and new areas for water-dependent uses. - The proposed project does not involve a water-dependent use.

Objective 5/Policy 5D - Consistency with Chapter 33D, Miami-Dade County Code. (shoreline access, environmental compatibility of shoreline development) – The proposed project does not meet the thresholds for review by the Shoreline Development Review Committee 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 new water dependent facilities.

28. **Conformance with Chapter 33B, Code of Miami-Dade County** (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 of the Code of Miami-Dade County) - The proposed project is in conformance with the Biscayne Bay Management Plan.

30. **Conformance with the Miami-Dade County Manatee Protection Plan** - The MPP is not applicable to the proposed project.

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

32. **Zoning Recommendation** – Pursuant to Section 24-48.2(II)(B)(7) of the Code of Miami-Dade County, Florida, a substantiating letter stating that the proposed project does not violate any zoning laws, or a plan approval, will be submitted prior to permit issuance. Said letter or plan approval will be submitted after the approval by the Board of County Commissioners and prior to the issuance of a 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)(B)(10)(b) of the Code of Miami-Dade County.

34. **Maximum Protection of a Wetland's Hydrological and Biological Functions** – The project involves the filling of wetlands which would be mitigated as set forth in Number 1 above.

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** – Not applicable.

The proposed project was also evaluated for compliance with the standards contained in Sections 2448.3(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:

(f) A physical modification necessary to protect public or private property.

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 Code-required water depth criteria is not applicable to the proposed project.

24-48.3 (4) Clean Fill in Wetlands – The project involves filling of wetlands; all fill will meet the definition of clean fill as defined in Section 24-5 of the Code of Miami-Dade County.

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

Martha G. Lastre

Martha García Lastre, Senior Manager
Coastal Resources Section

Rockell Alhale

Rockell Alhale, Manager
Coastal Resources Section

MEMORANDUM

(Revised)

TO: Honorable Chairman Oliver G. Gilbert, III
and Members, Board of County Commissioners

DATE: October 1, 2024

FROM: Geri Bonzon-Keenan
County Attorney

SUBJECT: Agenda Item No. 5(K)

Please note any items checked.

_____	**"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**
_____	**Statement of social equity required**
_____	**Ordinance creating a new board requires detailed County Mayor's report for public hearing**
✓	**No committee review**
_____	**Applicable legislation requires more than a majority vote (i.e., 2/3's present ____, 2/3 membership ____, 3/5's ____, unanimous ____, majority plus one ____, CDMP 7 vote requirement per 2-116.1(3)(h) or (4)(c) ____, CDMP 2/3 vote requirement per 2-116.1(3) (h) or (4)(c) ____, CDMP 9 vote requirement per 2-116.1(4)(c) (2) _____) to approve**
_____	**Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required**

Approved _____ Mayor
Veto _____
Override _____

Agenda Item No. 5(K)
10-1-24

RESOLUTION NO. R-847-24

RESOLUTION TAKING ACTION ON A CLASS I PERMIT APPLICATION BY MIAMI-DADE COUNTY, THROUGH ITS PARKS, RECREATION, AND OPEN SPACES DEPARTMENT, FOR A CLASS I PERMIT FOR THE ALTERATION OF MANGROVES WITHIN A COASTAL BAND COMMUNITY AND THE FILLING OF WETLANDS SUPPORTING HALOPHYTIC VEGETATION IN ASSOCIATION WITH THE INSTALLATION OF AN ELEVATED BOARDWALK WITHIN MATHESON HAMMOCK PARK AT 9610 OLD CUTLER ROAD, CORAL GABLES, 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, Florida, hereby approves the application by Miami-Dade County, through its Parks, Recreation, and Open Spaces Department, for a Class I permit for the alteration of mangroves within a coastal band community and the filling of wetlands supporting halophytic vegetation in association with the installation of an elevated boardwalk within Matheson Hammock Park at 9610 Old Cutler Road, Coral Gables, Miami-Dade County, Florida, subject to the conditions set forth in the memorandum from the Miami-Dade County Department of Regulatory and Economic Resources, 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 **Anthony Rodriguez**, who moved its adoption. The motion was seconded by Commissioner **Juan Carlos Bermudez** and upon being put to a vote, the vote was as follows:

Oliver G. Gilbert, III, Chairman **aye**
Anthony Rodríguez, Vice Chairman **absent**

Marleine Bastien	**aye**	Juan Carlos Bermudez	**aye**
Kevin Marino Cabrera	**aye**	Sen. René García	**aye**
Roberto J. Gonzalez	**absent**	Keon Hardemon	**aye**
Danielle Cohen Higgins	**aye**	Eileen Higgins	**absent**
Kionne L. McGhee	**aye**	Raquel A. Regalado	**aye**
Micky Steinberg	**aye**		

The Chairperson thereupon declared the resolution duly passed and adopted this 1st day of October, 2024. This resolution shall become effective upon the earlier of (1) 10 days after the date of its adoption unless vetoed by the County Mayor, and if vetoed, shall become effective only upon an override by this Board, or (2) approval by the County Mayor of this resolution and the filing of this approval with the Clerk of the Board.

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

JUAN FERNANDEZ-BARQUIN, CLERK

By: **Basia Pruna**
Deputy Clerk

Approved by County Attorney as
to form and legal sufficiency.

Abbie Schwaderer-Raurell
Christopher J. Wahl