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CLERK OF THE BOARD
OF COUNTY COMMISSIONERS
MIAMI-DADE COUNTY, FLORIDA

Memorandum

MIAMI-DADE COUNTY

Date: June 21, 2023

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(E)

Resolution No. R-504-23

Subject: Class I Permit Application by the Village of Bal Harbour

Recommendation

I have reviewed the attached application for a Class I permit by the Village of Bal Harbour 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 the Bal Harbour jetty on the south side of Baker's Haulover Inlet, Bal Harbour, Miami-Dade County, Florida, in Commission District 4, which is represented by Commissioner Micky Steinberg.

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 Natural Resources Division Chief, McKee Gray, in the Department of Regulatory and Economic Resources, Division of Environmental Resources Management (DERM), would be responsible for monitoring the proposed permit.

Background

The subject Class I permit application requests authorization to fill tidal waters along the jetty located on the south side of Baker's Haulover Inlet extending into the Atlantic Ocean, within the Village of Bal Harbour, Miami-Dade County, Florida. The proposed project is required to be reviewed and decided upon by the Board after a public hearing because the filling of tidal waters 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 existing Bal Harbour jetty is approximately 24 feet wide and 760 feet long with an existing seawall along the north face of the jetty. The Village is proposing to reinforce and expand the jetty through the filling of approximately 1,637 square feet of tidal waters through the placement of

concrete, econcrete mixture, and additional riprap boulders, along the inside edge of the jetty hook area. The expanded footprint will extend approximately 20 feet to the south of the existing jetty.

In addition to the above-mentioned work the subject application also requests authorization to reinforce the existing seawall through the installation of sheetpile and concrete piles on the landward side of the existing seawall, installation of a new seawall cap and railing, installation of cantilevered viewing platforms and associated catwalks along the north side of the jetty, and the installation of cantilevered viewing platforms along the inside edge of the existing jetty hook area. These types of work are identified by the Code as work that can be processed administratively and are only coming before the Board as the aforementioned work is included in the subject application.

Filling work proposed in a Class I application shall comply with at least one of the criteria listed in Section 24-48.3(2) of the Code. The proposed work would result in the minimal amount of filling of tidal waters necessary to reinforce the structural integrity of the jetty, as well as renovate to allow for improved public access and use. The inlet experiences frequent tidal influx and armoring of the jetty is necessary for wave attenuation for the ingress and egress of vessels and to provide for shoreline stabilization. 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), which applies to dredging and filling work proposed in a Class I permit application.

The proposed project has been evaluated for consistency with the Miami-Dade County Manatee Protection Plan. The subject work location is not located within an area designated as essential habitat for the West Indian Manatee. However, the Class I permit would require that all standard manatee construction conditions be followed during all in water operations.

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. Section 24-48.4 of the Code also requires mitigation for permittable projects that otherwise result in unavoidable environmental impacts. The existing limerock riprap boulders located waterward of the jetty support numerous hard and soft non-listed corals. In order to avoid impacts to the corals documented within the footprint of the proposed work, the Village is proposing to relocate the coral colonies to a temporary holding site outside of the project footprint. Upon completion of the work, the corals would be reattached to suitable substrate along the jetty. As a condition of the Class I permit, monitoring reports and a mitigation bond would be required to ensure the survival of the relocated corals.

The proposed work is not reasonably expected to result in cumulative environmental impacts to water quality; however, the construction phase of the proposed project may result in temporary water quality impacts. In order to minimize the temporary impacts to water quality as a result of the construction activities associated with the proposed work, the Class I permit would require that turbidity controls be utilized during all phases of construction to ensure compliance with State and County water quality standards. The mitigation required for the temporary water quality impacts associated with the filling of tidal waters would be satisfied through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund.

The project has been designed in accordance with all relevant Miami-Dade County coastal construction criteria and is consistent with all other Miami-Dade County coastal protection provisions. Please find attached a DERM Project Report which also 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 Sections 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: DERM Project Report
Attachment E: Florida Department of Environmental Protection (FDEP) Permit
Attachment F: ACOE

Attachment A

Class I Permit Application

MIAMI-DADE COUNTY

Class I Permit Application

FOR DEPARTMENTAL USE ONLY

Date Received:	Application Number:
	Application Fee:

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

1. Applicant Information:

Name: Jorge Gonzalez
Address: 655 96th Street
Bal Harbour, FL Zip Code: 33154
Phone #: 350-993-7321 Fax#:
Email: jgonzalez@balharbourfl.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: Tyler Chappell
Address: 714 E McNab Road
Pompano beach, Fl Zip Code: 33062
Phone #: Fax #:
Email: tyler@thechappellgroup.com

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

Folio #(s): 12-2226-005-0030 Latitude: 25.899446 N Longitude: -80.122376 W
Street Address: 10295 Collins Ave Section: 044 Township: 22 Range: 26
In City or Town: Bal Harbour Near City or Town:
Name of waterway at location of the activity: Baker's Haulover cut

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: Improvements to the existing seawall, jetty, and cutwalk

Estimated project cost = $ 3,500,000

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):
Vessel Make/Model (If known):
Draft (s)(range in inches.): Length (s)(range in feet.):
Total Number of Slips: 0

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

Revised 11/16/09

MDC005

8. Contractor Information (If known):

Name: _____ 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.)

Village of Bal Harbour | | Florida

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

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 | Jorge Gonzalez | Manager | 8/24/20

Print Authorized Representative's Name | Title | Date

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) Registration/Incorporation | Type (Corp, LLC, LLP, etc.) | State of

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

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 easement 27999(3760-13) Miami-Dade County, Florida, otherwise identified in the public records of Miami-Dade County as Folio No. _____. 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
Village of Bal Harbour		

655 96th Street
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
	Jorge Gonzalez	Manager	8/24/20
Signature of Authorized Representative	Print Authorized Representative's Name	Title	Date
		Manager	

Please Review Above

Appropriate signature(s) must be included in:

Box 9: either A, B or C

AND

Box 10: either A or B

Class I Permit Application Additional Signatures Page
(Please attach to Class I permit application)

Applicant Name: _____

Owner Name: _____

Project Location: _____

Additional signatures for: ☐ **Applicant** ☐ **Owner**

1. IF THE APPLICANT/OWNER IS AN INDIVIDUAL

Signature of Applicant/Owner	Print Name of Applicant/Owner	Date
Signature of Applicant/Owner	Print Name of Applicant/Owner	Date

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

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

Under the penalty of perjury, we certify that we have the authority to sign this application on behalf of the Applicant/Owner, to bind the Applicant/Owner, and if so required to authorize the issuance of a bond on behalf of the Applicant/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	Print Name	Title	Date
Signature	Print Name	Title	Date
Signature	Print Name	Title	Date
Signature	Print Name	Title	Date
Signature	Print Name	Title	Date
Signature	Print Name	Title	Date
Signature	Print Name	Title	Date
Signature	Print Name	Title	Date
Signature	Print Name	Title	Date

Attachment B

Owner/Agent Letter, Engineer Letter, and Project Sketches

PERMIT APPLICANT / AUTHORIZED AGENT STATEMENT

Date: 7/20/22

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-2020-0388

By the attached Class I Standard Form permit application with supporting documents, I, JORGE M. GONZALEZ, VILLAGE MANAGER, am the permit applicant/applicant's authorized agent (circle one) and hereby request permission to perform the work associated with Class I Permit Application CLI-2020-0388. 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,

X _____
JORGE M GONZALEZ
(Permit Applicants Name), Permit Applicant

_____

(Authorized Agent's Name), Authorized Agent

ENGINEER LETTER OF CERTIFICATION

Date: 9/9/2022

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-2020-0388
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,

T.K. BLANKENSHIP

P.E. # 55910

MOFFATT & NICHOL
EB # 4877

LANDSCAPE ARCHITECTURAL SYMBOLS

- DETAIL NO. / SHEET NO. — DETAIL KEY
- ELEVATION KEY
- SECTION KEY - 1
- SECTION KEY - 2
- QUANTITY / KEY — PLANTING KEY
- MATERIAL KEY
- NOTE KEY
- ALIGN ELEMENTS
- SET ELEMENTS PARALLEL
- POINT OF BEGINNING
- CENTERLINE

LANDSCAPE ARCHITECTURAL LEGEND

- LOW — LIMIT OF WORK LINE
- PROPERTY LINE
- L000 — MATCHLINE
- BUILDING EGRESS
- CONTROL JOINT
- EXISTING CONTOUR
- PROPOSED CONTOUR
- STAIR RISER
- EXPANSION JOINT
- GFCI RECEPTACLE
- PLANTER DRAIN. REFER TO ARCH.
- AREA DRAIN. REFER TO ARCH.
- SHRUB PLANTING
- PROPOSED CANOPY TREE — *INDICATES STAKING ORIENTATION* — *INDICATES ESTIMATED ROOTBALL SIZE*
- (23.00) + — EXISTING SPOT ELEVATION. V.I.F
- 23.00 + — PROPOSED SPOT ELEVATION
- 23.00 — PROPOSED SPOT ELEVATION. (W/LEADER)
- 0.0 — RATIO OF DOWN SLOPE (HORIZ:VERT)
- 0.0% — DIRECTION AND PERCENTAGE OF DOWN SLOPE
- PROPOSED EXISTING TREE TO BE REMOVED

GENERAL NOTES

1. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS TO DETERMINE THE TOTAL SCOPE OF WORK AND ALL REQUIRED COORDINATION.
2. ALL SITE GRADING AND LAYOUT IS BASED ON SURVEY ENTITLED 190823-ECS 1957 PREPARED BY ECS LAND SURVEYORS, INC. THE LANDSCAPE ARCHITECT BEARS NO RESPONSIBILITY FOR THE ACCURACY OF THE SURVEY PROVIDED. ALL INFORMATION SHALL BE VERIFIED IN THE FIELD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE INSIDE OR OUTSIDE OF PROPERTY LINE DUE TO CONSTRUCTION OPERATIONS. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
4. ANY ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE GENERAL CONTRACTOR ON "AS-BUILT" DRAWINGS AND BE PRE-APPROVED WITH LANDSCAPE ARCHITECT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING THE LOCATIONS OF ANY EXISTING SITE ELEMENTS TO BE RE-SET IN THEIR SAME HORIZONTAL LOCATION.
6. AT ALL LOCATIONS WHERE EXISTING CURBING, BITUMINOUS CONCRETE, OR CONCRETE PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN SMOOTH EDGE.
7. EXPANSION JOINT FILLER AND SEALANT SHALL BE PLACED WHERE PAVEMENT MEETS CURBING, WALLS OR OTHER VERTICAL ELEMENTS INCLUDING BUILDING AND BUILDING COLUMNS, WALLS, STAIRS AND AT OTHER CONDITIONS AS SHOWN ON THE DRAWINGS.
8. CONTRACTOR SHALL PROVIDE STAMPED SURVEY AS-BUILT DRAWINGS CONFIRMING MAXIMUM CROSS SLOPES FOR ALL PAVEMENT AS SHOWN ON THE CONSTRUCTION DRAWINGS.
9. FOR SITE UTILITIES, DETAILS AND ASSOCIATED INFORMATION, REFER TO MEP AND CIVIL DRAWINGS.
10. FOR STRUCTURAL DETAILS AND ASSOCIATED INFORMATION, REFER TO STRUCTURAL DRAWINGS.

LAYOUT NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR A THOROUGH SITE EXAMINATION TO VERIFY ASSUMPTIONS OF THE ACTUAL SITE CONDITIONS.
2. THE DIMENSIONS SHOWN ON THE DRAWINGS INDICATE DESIGN INTENT AND MUST BE FIELD VERIFIED PRIOR TO PREPARATION OF SHOP DRAWINGS. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN FIELD VERIFICATION AND THE DRAWINGS.
3. PROVIDE EJ AND SEALANT AT BASE OF ALL BUILDING ELEMENTS. SEALANT AND INSTALLATION SHALL BE COORDINATED W/ BUILDING BASE AND WATERPROOFING. VERIFY EXISTING SLAB AND SURVEY IN FIELD PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EXPANSION JOINT AND CONTROL JOINT LAYOUT BASED ON FIELD VERIFIED MEASUREMENTS, AND REQUEST THE PRESENCE OF THE ARCHITECT TO REVIEW THE LAYOUT OF EXPANSION JOINTS PRIOR TO POURING THE CONCRETE.
5. NO CHIPPED PAVERS OR STONE VENEER WILL BE ACCEPTED. ALL CHIPPED PAVERS OR STONE VENEER INSTALLED WILL BE REJECTED BY THE LANDSCAPE ARCHITECT.

GRADING NOTES

1. THE CONTRACTOR SHALL USE ONE SINGLE BENCHMARK FOR ALL WORK AND CONSTRUCTION PHASES.
2. FOR UTILITY WORK, SUBSURFACE DRAINAGE, RIM AND INVERT ELEVATIONS OF DRAINAGE STRUCTURES REFER TO PLUMBING AND CIVIL DRAWINGS. RIM ELEVATIONS ARE PROVIDED FOR CONVENIENCE ONLY. COORDINATE RIM ELEVATIONS WITH PLUMBING AND CIVIL DRAWINGS.
3. CROSS SLOPES AT ALL PAVED SURFACES SHALL NOT EXCEED 1.8%. LONGITUDINAL SLOPES SHALL NOT EXCEED 4.8%, UNLESS OTHERWISE INDICATED.
4. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT BEFORE PLACING ANY PAVEMENT WITH A CROSS PITCH THAT IS GREATER THAN 2%, LESS THAN 1%, AND NOT NOTED AS SUCH ON THE DRAWINGS. PITCH EVENLY BETWEEN SPOT GRADES. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF ONE-EIGHTH INCH (1/8") PER FOOT.
5. CONTRACTOR TO VERIFY ADJACENT SPOT GRADES AT LOW TO ENSURE POSITIVE DRAINAGE FROM FINISH GRADE TO STREET. IN PLAZA AREAS AND PAVEMENT AREAS WITH MULTIPLE DIRECTIONS OF TRAVEL, SLOPES SHALL NOT EXCEED 1.8% IN ANY DIRECTION.
6. ALL NEW PAVEMENT AREAS SHALL BE PITCHED SO AS TO PROVIDE POSITIVE DRAINAGE TOWARD THE STREET CURB OR TOWARDS PROPOSED DRAINAGE STRUCTURES.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM THE FACE OF BUILDING AT ALL LOCATIONS.
8. RIM ELEVATIONS OF ALL DRAINAGE STRUCTURES AND OTHER UTILITY STRUCTURES SHALL BE SET FLUSH WITH FINAL SURROUNDING GRADES SO AS NOT TO CAUSE A TRIP EDGE.
9. FINAL SHAPING OF ALL EARTHWORKS SHALL BE DIRECTED AND APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT TO REVIEW AND APPROVE SUBGRADE IN PLANT BEDS PRIOR TO PLACING ANY PLANTING MIX.
10. CONTRACTOR TO VERIFY TOP OF ALL EXISTING SUBGRADE STRUCTURES TO ENSURE ENOUGH CLEARANCE IS PROVIDED FOR PAVERS AND WALLS. IF THE CLEARANCE IS INSUFFICIENT, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO PLACING PAVERS OR WALLS.
11. COMPACTED GRAVEL BASE WITHIN ALL AREAS OF NEW LANDSCAPE SIDEWALKS AND PAVEMENT AT GRADE SHALL BE PROVIDED AS RECYCLED AGGREGATE MATERIALS (RC-6) IN LIEU OF NEW CRUSHED AGGREGATE (CR-6).
12. ALL UNIT PAVER SURFACES TO BE PROVIDED WITH A SMOOTH, CONSISTENT ALIGNMENT AND BE INSTALLED FLUSH WITH ADJACENT PAVEMENT SURFACES AND PAVER UNITS. PAVER LIPPAGE WILL NOT BE ACCEPTED.

SHEET LIST

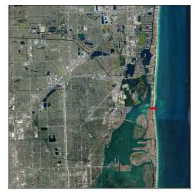
SHEET #	SHEET NAME	CONSULTANT
L000	NOTES, SYMBOLS & ABBREVIATIONS	Cadence
L000A	SURVEY	ECS
L000B	SURVEY	ECS
L000C	SURVEY	ECS
L001	SITE CONTEXT PLAN	Cadence
L100	HARDSCAPE KEY PLAN	Cadence
L101	LAYOUT AND MATERIALS PLAN 1	Cadence
L102	LAYOUT AND MATERIALS PLAN 2	Cadence
L114	SEAWALL DETAILS	Cadence
L115	SEAWALL DETAILS	Cadence
L201	GRADING PLAN 1	Cadence
L202	GRADING PLAN 2	Cadence
L300	LANDSCAPE KEY PLAN	Cadence
L301	PLANTING PLAN	Cadence
L302	PLANTING PLAN	Cadence
L303	PLANTING PLAN	Cadence
L304	PLANTING PLAN	Cadence
L305	EXPANDED PLANT SCHEDULES & INFO CHART	Cadence
L311	TREE DISPOSITION PLAN	Cadence
L312	TREE DISPOSITION PLAN	Cadence
L401	SITE SECTIONS AND ELEVATIONS 1	Cadence
L402	SITE SECTIONS AND ELEVATIONS 2	Cadence
L403	SITE SECTIONS AND ELEVATIONS 3	Cadence
L404	SITE SECTIONS AND ELEVATIONS 4	Cadence
L411	LANDSCAPE SECTIONS	Cadence
L412	LANDSCAPE SECTIONS	Cadence
L511	PLANTING NOTES	Cadence
L512	LANDSCAPE DETAILS	Cadence
L581	NATURE BOARDWALK 1	Cadence
L582	NATURE BOARDWALK 2	Cadence
S-001	GENERAL STRUCTURAL NOTES	Moffatt and Nichol
S-010	EXISTING CONDITIONS	Moffatt and Nichol
S-011	BORING LOGS	Moffatt and Nichol
S-020	DEMOLITION PLAN	Moffatt and Nichol
S-101	OVERALL PLAN OF IMPROVEMENTS	Moffatt and Nichol
S-111	SITE PLAN (1 OF 2)	Moffatt and Nichol
S-112	SITE PLAN (2 OF 2)	Moffatt and Nichol
S-121	PARTIAL JETTY PLAN	Moffatt and Nichol
S-401	SECTIONS AND DETAILS	Moffatt and Nichol
S-402	JETTY SECTIONS	Moffatt and Nichol
S-403	PLAN VIEW & SECTIONS FOR CATWALKS	Moffatt and Nichol
S-404	ELEVATIONS & SECTIONS FOR CATWALKS	Moffatt and Nichol
S-501	REINFORCEMENT DETAILS FOR CATWALKS (1 OF 2)	Moffatt and Nichol
S-502	REINFORCEMENT DETAILS FOR CATWALKS (2 OF 2)	Moffatt and Nichol
S-503	REINFORCEMENT DETAILS JETTY SLABS	Moffatt and Nichol
S-504	REINFORCEMENT DETAILS PILES & PILE CAPS	Moffatt and Nichol
S-505	REINFORCEMENT DETAILS PRECAST CONCRETE FACING	Moffatt and Nichol
S-506	MISCELLANEOUS DETAILS	Moffatt and Nichol

ABBREVIATIONS

AD	AREA DRAIN	DI	DRAIN INLET	INT	INTERIOR	PLMB	PLUMBING	TEL	TELEPHONE
ADJ	ADJACENT	DN	DOWN	INV	INVERT	PSI	POUNDS PER SQUARE INCH	TEMP	TEMPORARY
AGGR	AGGREGATE	DWG	DRAWING	JB	JUNCTION BOX	PREFAB	PREFABRICATED	THRU	THROUGH
ALLOW	ALLOWANCE	E	EAST	JT	JOINT	PROJ	PROJECT	T&B	TOP AND BOTTOM
ALT	ALTERNATE	ELEC	ELECTRICAL	LA	LANDSCAPE ARCHITECT	PVC	POLYVINYL CHLORIDE	TP	TRANSITION POINT
ARCH	ARCHITECTURE	EL. ELEV	ELEVATION	LB	POUND	R	RADIUS, RISER	TR	TREAD
AVG	AVERAGE	ENG	ENGINEER	LT	LIGHT	RECD	RECEIVED	TS	TOP OF STAIR
BET	BETWEEN	EQ	EQUAL	LIN	LINEAR	REF	REFERENCE	TT	TOP OF TABLE
BB	BOTTOM OF BENCH	EQUIP	EQUIPMENT	LOW	LIMIT OF WORK	REBAR	REINFORCING BAR	TYP	TYPICAL
BC	BOTTOM OF CURB	ETR	EXISTING TO REMAIN	MATL	MATERIAL	REINF	REINFORCE, REINFORCED	TW	TOP OF WALL
BS	BOTTOM OF STAIR	EXIST	EXISTING	MAX	MAXIMUM	REQD	REQUIRED	UON	UNLESS OTHERWISE NOTED
BW	BOTTOM OF WALL	EJ	EXPANSION JOINT	MET	METAL	RIM	RIM ELEVATION	VERT	VERTICAL
BIT CONC	BITUMINOUS CONCRETE	EXT	EXTERIOR	MIN	MINIMUM	RET	RETAINING	VGC	VERTICAL GRANITE CURBING
BLDG	BUILDING	FFE	FINISH FLOOR ELEVATION	MISC	MISCELLANEOUS	ROW	RIGHT OF WAY	VIF	VERIFY IN FIELD.DO NOT
BO	BY OTHERS	FT	FEET	MKYD	MKYOUNG KIM DESIGN	RP	REFERENCE POINT		PROCEED W/O LANDSCAPE
CAL	CALIPER	FG	FINISH GRADE	NOM	NOMINAL	SCH	SCHEDULE		ARCHITECTS INPUT.
CB	CATCH BASIN	FIN	FINISH	N	NORTH	SECT	SECTION	WH	WALL HYDRANT
C-C	CENTER TO CENTER	FTG	FOOTING	NIC	NOT IN CONTRACT	SHT	SHEET	WP	WATERPROOFING
CL	CENTERLINE	FDN	FOUNDATION	NTS	NOT TO SCALE	SIM	SIMILAR	W	WIDTH
CIR	CIRCLE	GALV	GALVANIZED	NO	NUMBER	SK	SKETCH	WWM	WELDED WIRE MESH
CLR	CLEAR	GR	GRATE	OC	ON CENTER	SO	SOUTH	W/	WITH
COL	COLUMN	HB	HOSE BIB	OD	OUTSIDE DIAMETER	SPEC	SPECIFICATION	W/O	WITHOUT
COMP	COMPACTED	HCR	HANDICAP RAMP	OPNG	OPENING	SQ	SQUARE	YD	YARD
CONC	CONCRETE	HT	HEIGHT	OPP	OPPOSITE	SS	STAINLESS STEEL		
CONST	CONSTRUCTION	HOR	HORIZONTAL	POB	POINT OF BEGINNING	SSDI	STRUCTURAL SLAB DRAIN INLET		
CONT	CONTINUOUS	HDPE	HIGH DENSITY POLYETHYLENE	PC	POINT OF CURVATURE	STD	STANDARD		
CJ	CONSTRUCTION JOINT	HDG	HOT DIPPED GALVANIZED	PT	POINT OF TANGENCY	STL	STEEL	±	PLUS OR MINUS
CF	CUBIC FEET	HYD	HYDRANT	PA	PLANTING AREA	STRUC	STRUCTURAL		DIMENSION. CONTRACTOR
DEG	DEGREE	IN	INCH	PAR	PARAGRAPH	T	THICK		MAY PROCEED WITH
DTL	DETAIL	INCL	INCLUDE, INCLUDING	PERF	PERFORATED	TB	TOP OF BENCH		LAYOUT IF DEVIATION IS
DIA	DIAMETER	INFO	INFORMATION	PERP	PERPENDICULAR	TC	TOP OF CURB		NOT GREATER THAN TWO
DIM	DIMENSION	ID	INSIDE DIAMETER	PL	PROPERTY LINE	TD	TRENCH DRAIN		UNITS OF THE SMALLEST
									DIMENSION GIVEN.

LANDSCAPE ARCHITECTURAL LEGEND

SOUTH FLORIDA


BAL HARBOUR, FL

BAL HARBOUR JETTY
(PROJECT BOUNDARY)

MDC012

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BAL HARBOUR

THE CUT WALK AND JETTY
BAKERS HAUL/OVER CUT
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MYKD PROJECT NUMBER: 5-419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

SCALE:

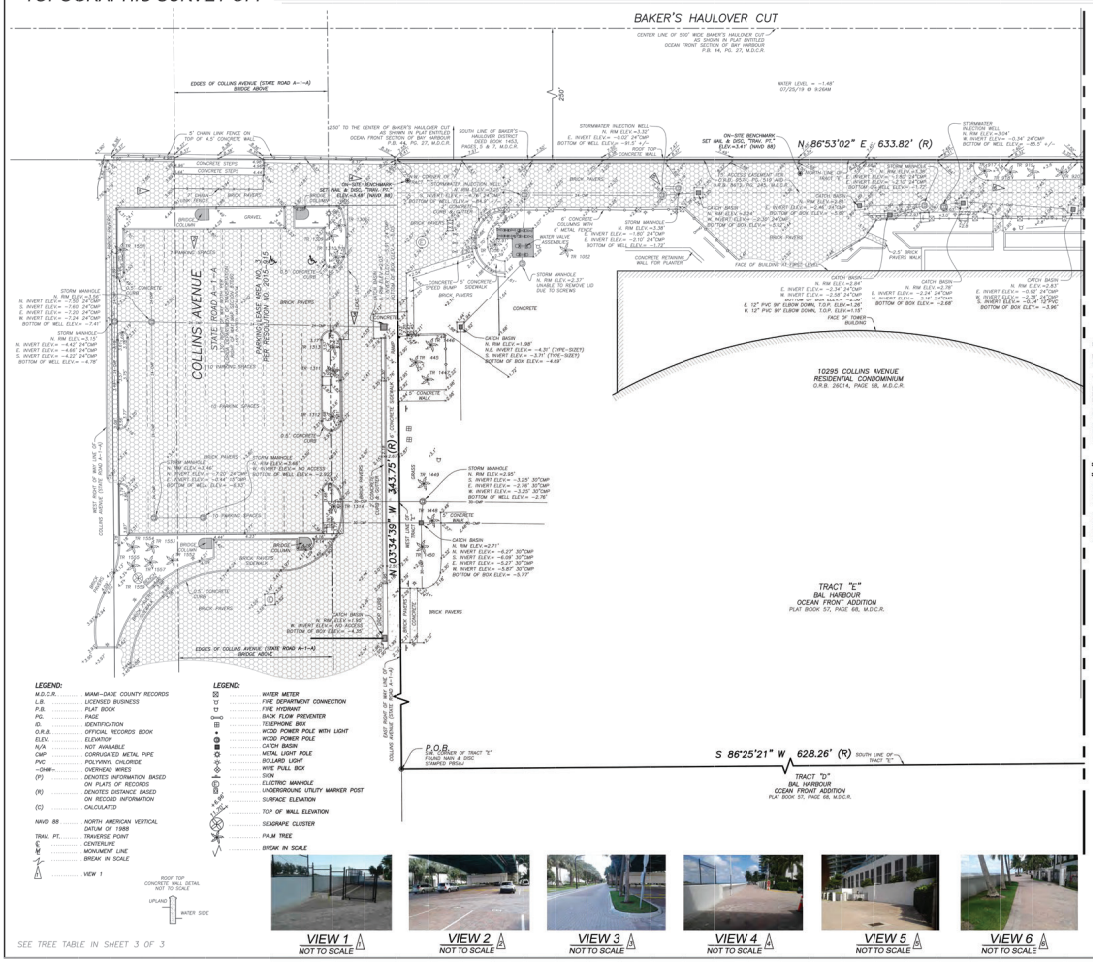
DRAWING NAME:
NOTES, SYMBOLS, AND ABBREVIATIONS

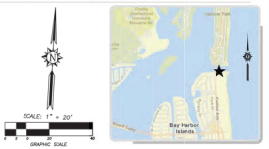
DRAWING NUMBER:
L000

NOT FOR CONSTRUCTION

MDC013

SKETCH OF BOUNDARY AND TOPOGRAPHIC SURVEY OF: THE CUT WALK AND JETTY, BAKERS HAULOVER CUT, BAL HARBOUR, FL





LEGAL DESCRIPTION:

A PARCEL OF LAND BEING ALL OF TRACT E BAL HARBOUR FRONT OCEAN ADDITION AS RECORDED IN PLAT BOOK 57, PAGE 68 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA, AND ALSO A PORTION OF SECTION 26, TOWNSHIP 52 SOUTH, RANGE 42 EAST OF AND ADJACENT TO SAID TRACT E ALL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHWEST CORNER OF SAID TRACT E; THENCE ON A GRID BEARING NORTH 03°34'39" WEST ALONG THE WEST LINE OF TRACT E A DISTANCE OF 343.75 FEET TO THE NORTHWEST CORNER OF SAID TRACT E; THENCE NORTH 86°53'02" EAST ALONG THE NORTH LINE OF SAID TRACT E A DISTANCE OF 633.82 FEET TO THE NORTHEAST CORNER OF SAID TRACT E; THENCE SOUTH 03°34'39" EAST ALONG THE EAST LINE OF SAID TRACT E A DISTANCE OF 1.33 FEET; THENCE SOUTH 86°53'02" WEST A DISTANCE OF 4.20 FEET TO A POINT ON THE EASTERLY LINE OF SAID TRACT E; SOUTH 03°06'48" EAST ALONG THE EAST LINE OF SAID TRACT E A DISTANCE OF 73.70 FEET; THENCE NORTH 86°53'02" EAST A DISTANCE OF 24.39 FEET TO A POINT ON THE EASTERLY EXTENSION OF THE SOUTH LINE OF SAID TRACT E; THENCE SOUTH 86°25'21" WEST ALONG THE SOUTH LINE OF SAID TRACT E AND THE EASTERLY EXTENSION THEREOF A DISTANCE OF 629.28 FEET TO THE POINT OF BEGINNING.

SAID LAND SITUATED WITHIN THE VILLAGE OF BAL HARBOUR, MIAMI-DADE COUNTY, FLORIDA.

SURVEY NOTES:

1. THIS SURVEY REPRESENTS A BOUNDARY AND TOPOGRAPHIC SURVEY AS DEFINED BY STANDARDS OF PRACTICE FOR SURVEYING AND MAPPING, CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

2. THE BEARINGS SHOWN HEREON ARE BASED ON A GRID BEARING OF NORTH 03°34'39" WEST ALONG THE WEST LINE OF TRACT "E", BAL HARBOUR OCEAN FRONT ADDITION, RECORDED IN PLAT BOOK 57, PAGE 68, PUBLIC RECORDS OF MIAMI-DADE COUNTY RECORDS AND ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATES SYSTEM, EAST ZONE, 1983 (1990) ADJUSTMENT.

3. THE ELEVATIONS SHOWN HEREON ARE BASED UPON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), ESTABLISHED FROM THE NATIONAL GEODETIC SURVEY TIDAL BENCHMARK DESIGNATED AS BH 1. A SURVEY DISK SET IN A CONCRETE RETAINING WALL, 99.5' SOUTHWEST OF THE SOUTHWEST CORNER OF A BRICK BUILDING IN THE HAULOVER BEACH PARK. ELEVATION= 5.16'.

4. THE UPLAND PORTION OF THE PROPERTY SHOWN HEREON LIES WITHIN FLOOD ZONES AE (ELEV 8 NAVD 29) X, AS SHOWN IN FLOOD INSURANCE RATE MAP NUMBER 12086C 0163 L, COMMUNITY NUMBER 120635, TOWN OF BAL HARBOUR VILLAGE, MIAMI-DADE COUNTY, FLORIDA. MAP EFFECTIVE DATE: SEPTEMBER 11, 2009.

5. THE SYMBOLS REFLECTED IN THE LEGEND AND ON THIS SURVEY MAY HAVE BEEN ENLARGED FOR CLARITY AND THEREFORE MAY HAVE BEEN PLOTTED AT THE CENTER OF THE FIELD LOCATION AND MAY NOT REPRESENT THE ACTUAL SHAPE OR SIZE OF THE FEATURE.

6. THE INFORMATION DEPICTED ON THIS SURVEY REPRESENTS THE RESULTS OF A FIELD SURVEY ON THE DATE INDICATED AND CAN ONLY BE CONSIDERED AS A REPRESENTATION OF THE GENERAL CONDITIONS EXISTING AT THAT TIME.

7. THE SURVEYOR DID NOT INSPECT THE PROPERTY SHOWN HEREON FOR ENVIRONMENTAL HAZARDS. OWNERSHIP OF WALLS OR FENCES WAS NOT DETERMINED.

8. BUILDING DIMENSIONS WERE MEASURED AT GROUND LEVEL AND ARE OVERALL. ARCHITECTURAL DETAILS MAY NOT BE SHOWN.

9. OWNERSHIP OF WALLS OR FENCES WAS NOT DETERMINED.

10. THE INFORMATION CONTAINED IN THIS DOCUMENT WAS PREPARED BY ECS LAND SURVEYORS, INC. ECS LAND SURVEYORS HAS TAKEN ALL REASONABLE STEPS TO ENSURE THE ACCURACY OF THIS DOCUMENT. WE CANNOT GUARANTEE THAT ALTERATIONS AND/OR MODIFICATIONS WILL NOT BE MADE BY OTHERS AFTER IT LEAVES OUR POSSESSION. THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY (WHICH BEARS THE RAISED SURVEYOR'S CERTIFICATION SEAL IF APPLICABLE) TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. ANY USE OF THIS DOCUMENT OR THE INFORMATION CONTAINED HEREIN IS AT THE USER'S SOLE RISK. ECS LAND SURVEYORS MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN THIS OR ANY DOCUMENT TRANSMITTED OR RENDERED BY COMPUTER OR OTHER ELECTRONIC MEANS. CONTACT ECS LAND SURVEYORS DIRECTLY FOR VERIFICATION OF ACCURACY.

11. SUBSURFACE UTILITIES, FOUNDATIONS AND ENCROACHMENTS WERE NOT LOCATED AND ARE NOT SHOWN HEREON. SUBSURFACE UTILITIES, FOUNDATIONS AND ENCROACHMENTS THAT ARE NOT SHOWN HEREON, BEFORE DESIGN, CONSTRUCTION OR EXCAVATION, CONTACT SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION OF UTILITIES. THIS SURVEY IS LIMITED TO ABOVEGROUND FEATURES ONLY.

12. THE PROPERTY SHOWN HEREON, THE 10295 COLLINS AVENUE RESIDENTIAL CONDOMINIUM CONTAINS ±.04 ACRES (219,330 SQUARE FEET), MORE OR LESS.

13. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES ARE PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

14. THIS FIRM HAS ATTEMPTED TO IDENTIFY THE VARIOUS TYPES OF TREES LOCATED ON THIS SITE. A QUALIFIED LANDSCAPE ARCHITECT SHOULD BE EMPLOYED FOR POSITIVE IDENTIFICATION. TREES WITH TRUNKS LESS THAN 4" IN DIAMETER AND 10' IN HEIGHT ABOVE THE GROUND. HEDGES AND GROUND COVER NOT LOCATED OR SHOWN HEREON.

15. HEDGES, ORNAMENTAL PLANTS, WELLS, IRRIGATION LINES AND SPRINKLERS HEADS (IF ANY), NOT LOCATED OR SHOWN HEREON.

THIS SURVEY IS CERTIFIED TO:

MIKYOUNG KIM DESIGN

CERTIFICATE:

THIS IS TO CERTIFY THAT THIS BOUNDARY AND TOPOGRAPHIC SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JAVIER DE LA ROCHA
PROFESSIONAL SURVEYOR AND MAPPER NO. 6080
STATE OF FLORIDA

ECS LAND SURVEYORS, INC. L.B. 7551
email:javier@ecssurveyors.com

LEGEND:

M.D.C.R.	MIAMI-DADE COUNTY RECORDS
L.B.	LICENSED BUSINESS
P.B.	PLAT BOOK
PG.	PAGE
ID.	IDENTIFICATION
O.R.B.	OFFICIAL RECORDS BOOK
ELEV.	ELEVATION
N/A	NOT AVAILABLE
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORIDE
-OHW-	OVERHEAD WIRES
(P)	DENOTES INFORMATION BASED ON PLATS OF RECORDS
(R)	DENOTES DISTANCE BASED ON RECORD INFORMATION
(C)	CALCULATED
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
TRAV. PT.	TRAVERSE POINT
℄	CENTERLINE
M	MONUMENT LINE
	BREAK IN SCALE
1	VIEW 1

LEGEND:

	WATER METER
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
DHPD	BACK FLOW PREVENTER
	TELEPHONE BOX
	WOOD POWER POLE WITH LIGHT
	WOOD POWER POLE
	CATCH BASIN
	METAL LIGHT POLE
	BOLLARD LIGHT
	WYE PULL BOX
	SIGN
E	ELECTRIC MANHOLE
	UNDERGROUND UTILITY MARKER POST
14.66	SURFACE ELEVATION
14.66	TOP OF WALL ELEVATION
	SEAGRAPE CLUSTER
	PALM TREE
	BREAK IN SCALE

ROOF TOP CONCRETE PLUG DETAIL NOT TO SCALE

VIEW 1 NOT TO SCALE | VIEW 2 NOT TO SCALE | VIEW 3 NOT TO SCALE | VIEW 4 NOT TO SCALE | VIEW 5 NOT TO SCALE | VIEW 6 NOT TO SCALE

smsinc@sms1.com

ECS LAND SURVEYORS, INC.
9485 FARMLANE FARMS ROAD, SUITE 6, WELLINGTON, FL 33414
TELEPHONE NO. 561-340-0760 FAX NO. 561-514-0770

SKETCH OF BOUNDARY AND TOPOGRAPHIC SURVEY
THE CUT WALK AND JETTY
BAKERS HAULOVER CUT @
10295 COLLINS AVENUE
RESIDENTIAL CONDOMINIUM
10295 COLLINS AVENUE, BAL HARBOUR FL 33154

CLIENT: MIKYOUNG KIM DESIGN
DATE: 12/14/22
DRAWN BY: J.E.C.
CHECKED BY: J.D.L.R.
LAST FIELD DATE: 12/16/22

REVISIONS	
1	UPDATE SURVEY 12/16/22

JOB NO. ECS1657 TASK 2
SHEET NO. 01 OF 03

BAL HARBOUR
THE CUT WALK AND JETTY
BAKERS HAULOVER CUT
1095 COLLINS AVENUE, BAL HARBOUR, FL 33154

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10.26.2022

REVISIONS

SCALE

DRAWING NAME: SURVEY

DRAWING NUMBER: L000A

NOT FOR CONSTRUCTION

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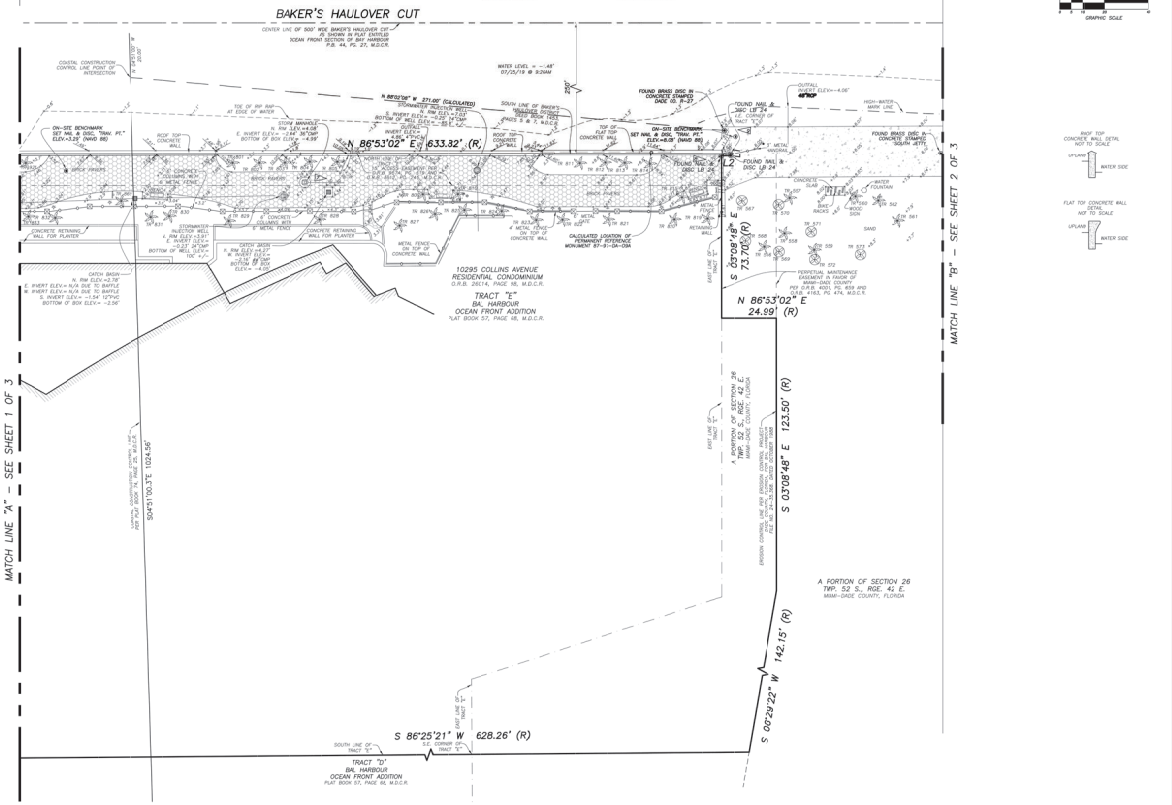
MDC014

SKETCH OF BOUNDARY AND TOPOGRAPHIC SURVEY OF: **THE CUT WALK AND JETTY, BAKERS HAULOVER CUT, BAL HARBOUR, FL**

VIEW 7 NOT TO SCALE | VIEW 8 NOT TO SCALE | VIEW 9 NOT TO SCALE



SEE LEGEND IN SHEET 1 OF 3
SEE TREE TABLE IN SHEET 3 OF 3

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ECS LAND SURVEYORS, INC.
3440 FAIRLANE FARMS ROAD, SUITE 6, WELLINGTON, FL. 33414

SEAL
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SKETCH OF BOUNDARY AND TOPOGRAPHIC SURVEY
THE CUT WALK AND JETTY
BAKERS HAULOVER CUT @ 10295 COLLINS AVENUE RESIDENTIAL CONDOMINIUM
10295 COLLINS AVENUE, BAL HARBOUR, FL 33154

CLIENT: MIKYOUNG KIM DESIGN
DATE: 12/16/20
DRWN BY: J.E.C.
CHKD BY: JDLR
LAST FIELD DATE: 12/16/20
REVISIONS
1 UPDATE SURVEY 12/16/20
JOB NO. ECS1657 TASK 2
SHEET NO. 02 of 03

BAL HARBOUR

THE CUT WALK AND JETTY
BAKERS HAULOVER CUT
10295 COLLINS AVENUE, BAL HARBOUR, FL 33154

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MYKD PROJECT NUMBER: 5419
30% CONSTRUCTION DOCUMENTATION
DATE: 10.2.62.022
REVISIONS:
SCALE:
DRAWING NAME: SURVEY
DRAWING NUMBER: L000B

NOT FOR CONSTRUCTION

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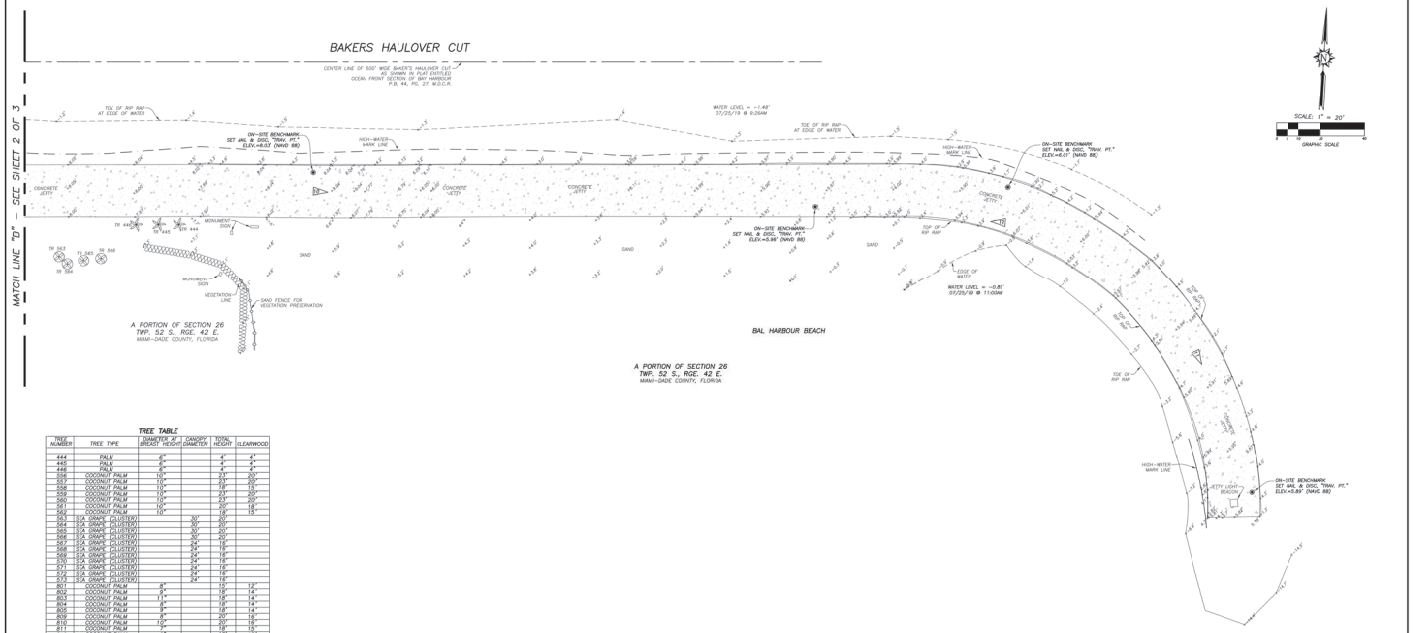
MDC015

SKETCH OF BOUNDARY AND TOPOGRAPHIC SURVEY OF: THE CUT WALK AND JETTY, BAKERS HAULOVER CUT, BAL HARBOUR, FL



TREE TABLE

TREE NUMBER	TREE TYPE	DIAMETER AT BREAST HEIGHT	CANOPY DIAMETER	TOTAL HEIGHT	CLEARWOOD
444	PALM	6"		4"	4"
445	PALM	6"		4"	4"
446	PALM	6"		4"	4"
556	COCONUT PALM	10"		23'	20'
557	COCONUT PALM	10"		23'	20'
558	COCONUT PALM	10"		18'	13'
559	COCONUT PALM	10"		23'	20'
560	COCONUT PALM	10"		23'	20'
561	COCONUT PALM	10"		20'	18'
562	COCONUT PALM	10"		20'	15'
563	S/A GRAPE CLUSTER)		30'	20'	
564	S/A GRAPE CLUSTER)		30'	20'	
565	S/A GRAPE CLUSTER)		30'	20'	
566	S/A GRAPE CLUSTER)		30'	20'	
567	S/A GRAPE CLUSTER)		24'	18'	
568	S/A GRAPE CLUSTER)		24'	18'	
569	S/A GRAPE CLUSTER)		24'	18'	
570	S/A GRAPE CLUSTER)		24'	18'	
571	S/A GRAPE CLUSTER)		24'	18'	
572	S/A GRAPE CLUSTER)		24'	18'	
573	S/A GRAPE CLUSTER)		24'	15'	
801	COCONUT PALM	8"		15'	12'
802	COCONUT PALM	9"		18'	14'
803	COCONUT PALM	11"		18'	14'
804	COCONUT PALM	8"		18'	14'
805	COCONUT PALM	8"		18'	14'
809	COCONUT PALM	9"		20'	15'
810	COCONUT PALM	10"		20'	16'
811	COCONUT PALM	7"		18'	15'
812	COCONUT PALM	9"		18'	15'
813	COCONUT PALM	9"		18'	15'
814	COCONUT PALM	8"		15'	13'
815	COCONUT PALM	12"		20'	14'
816	COCONUT PALM	13"		20'	16'
821	COCONUT PALM	12"		20'	17'
822	COCONUT PALM	8"		17'	12'
823	COCONUT PALM	10"		20'	15'
824	COCONUT PALM	11"		20'	15'
825	COCONUT PALM	11"		20'	15'
826	COCONUT PALM	12"		23'	18'
827	COCONUT PALM	12"		23'	18'
828	COCONUT PALM	9"		20'	13'
829	COCONUT PALM	13"		20'	14'
830	COCONUT PALM	12"		20'	18'
831	COCONUT PALM	9"		20'	15'
832	COCONUT PALM	12"		20'	20'
833	COCONUT PALM	13"		20'	20'
868	COCONUT PALM	9"		18'	16'
917	COCONUT PALM	8"		20'	15'
918	COCONUT PALM	12"		23'	20'
919	COCONUT PALM	12"		23'	20'
920	COCONUT PALM	9"		20'	16'
921	COCONUT PALM	8"		18'	14'
1050	COCONUT PALM	10"		15'	12'
1051	COCONUT PALM	12"		20'	18'
1052	COCONUT PALM	12"		20'	18'
1053	COCONUT PALM	12"		20'	18'
1308	MEXICAN PALM	12"		20'	20'
1309	MEXICAN PALM	12"		20'	20'
1310	MEXICAN PALM	12"		20'	20'
1311	MEXICAN PALM	12"		20'	20'
1312	MEXICAN PALM	12"		20'	20'
1313	MEXICAN PALM	12"		18'	16'
1314	MEXICAN PALM	12"		18'	16'
1445	COCONUT PALM	10"		17'	10'
1446	COCONUT PALM	10"		17'	10'
1447	COCONUT PALM	10"		18'	10'
1448	COCONUT PALM	10"		20'	17'
1449	UNKNOWN PALM	18"		20'	20'
1450	UNKNOWN PALM	20"		24'	22'
1552	COCONUT PALM	12"		23'	22'
1553	COCONUT PALM	12"		23'	22'
1554	COCONUT PALM	12"		23'	22'
1555	COCONUT PALM	12"		23'	22'
1556	COCONUT PALM	12"		23'	22'
1557	COCONUT PALM	12"		23'	22'
1558	S/A GRAPE CLUSTER)		40'	25'	

VIEW 10
NOT TO SCALE

VIEW 11
NOT TO SCALE

VIEW 12
NOT TO SCALE

SEE LEGEND IN SHEET 1 OF 3

TELEPHONE NO. 561-314-0770 FAX NO. 561-314-0769
ECS LAND SURVEYORS, INC.
3450 FAIRLANE FARMS ROAD, SUITE 1, WELLINGTON, FL. 33414

SKETCH OF BOUNDARY AND TOPOGRAPHIC SURVEY OF:
THE CUT WALK AND JETTY
BAKERS HAULOVER CUT @
10295 COLLINS AVENUE
BAL HARBOUR, FL 33154
10295 COLLINS AVENUE, BAL HARBOUR, FL 33154

CLIENT: MKYOUNG KIM DESIGN
DATE: 12/16/20
DRWN BY: J.E.C.
CHKD BY: JDLR
LAST FIELD DATE: 12/16/20

REVISIONS
1 UPDATE SURVEY 12/16/20

ECS1657
TASK 2

SHEET NO.
03 of 03

BAL HARBOUR

THE CUT WALK AND JETTY
BAKERS HAULOVER CUT
10295 COLLINS AVENUE, BAL HARBOUR, FL 33154

mykd
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www.mykd.com

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Landscape Architect of Record
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(954)568-0888

Structural Engineers
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Miami, FL 33133
(305)230-1924

Environmental
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Pompano Beach, FL 33060
(954)782-1908

Lighting
Miami Lighting Design
2550 S Bayshore Drive Suite 206
Miami, FL 33133
(305)978-3138

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10.26.2022

REVISIONS:

SCALE:

DRAWING NAME:
SURVEY

DRAWING NUMBER:
L000C

NOT FOR CONSTRUCTION

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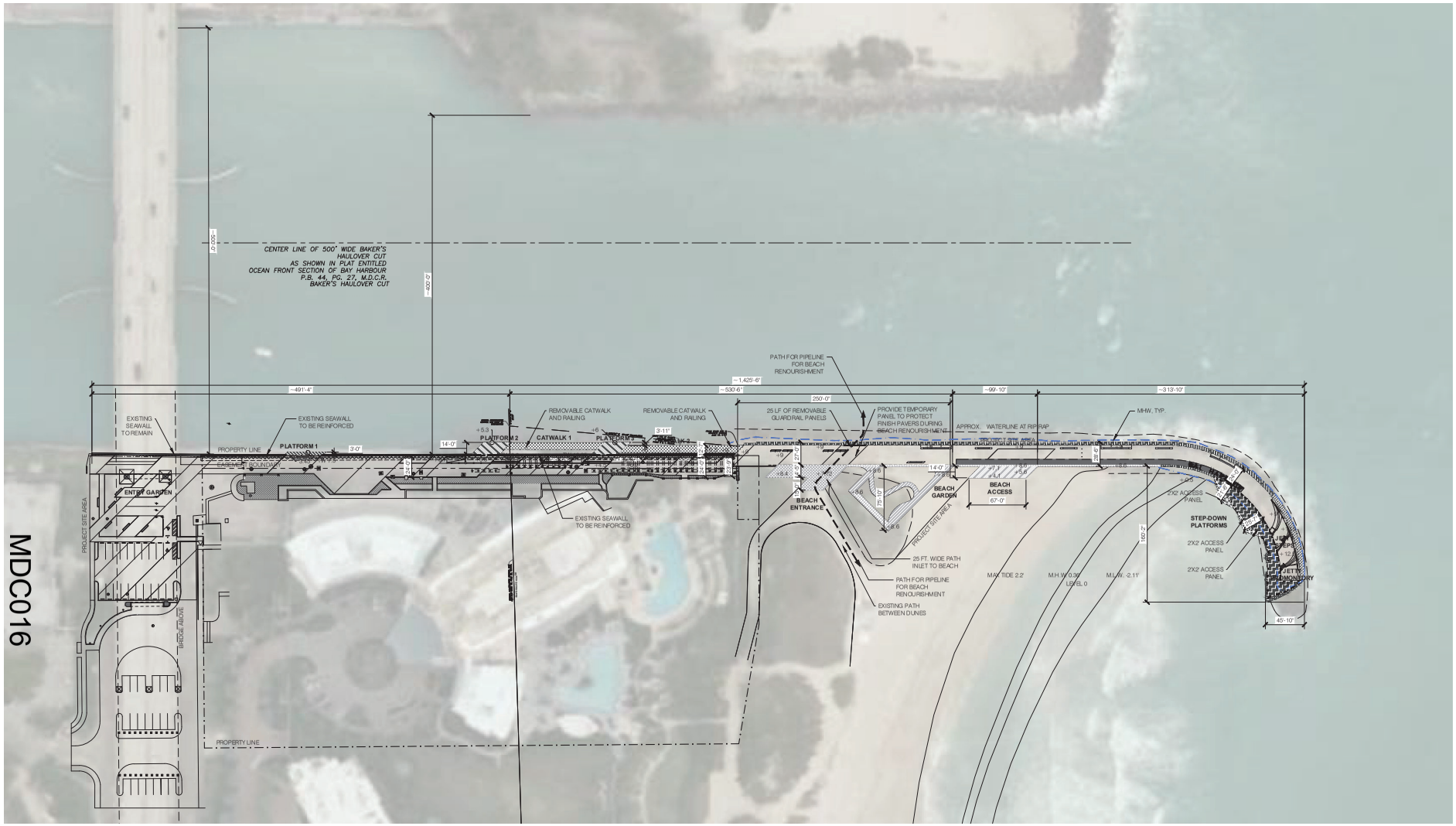

MDC016

PLAN KEY		QTY	UNIT
	APPROXIMATE SITE AREA (97,205 SF)	2.23	AC
	EXISTING CONCRETE SEAWALL	759.4	LF
	EXISTING 24' WIDE JETTY	753.7	LF
	APPROXIMATE EXTENT OF EXISTING RIP RAP TO TOE	42,000	SF
	EXISTING SEAWALL TO REMAIN	128.42	LF
	EXISTING SEAWALL TO RECEIVE NEW TOP PROFILE	570	LF
	EXISTING SEAWALL TO BE REINFORCED	625	LF
	PROPOSED ECONCRETE STABILIZING MATERIALS, CONCRETE FACING.	186	LF
	AUGER CAST PILES ALONG CUT WALK ON LANDWARD SIDE	44	

		QTY	UNIT
	TOTAL JETTY FOOTPRINT EXPANSION	2,384	SF
		QTY	UNIT
	PROPOSED JETTY FOOTPRINT EXPANSION LANDWARD OF MHW, MASS CONCRETE	673	SF
	PROPOSED JETTY FOOTPRINT EXPANSION LANDWARD OF MHW, ECONCRETE FACING	52	SF
	PROPOSED JETTY FOOTPRINT EXPANSION LANDWARD OF MHW, ECONCRETE SHELF	22	SF
	TOTAL JETTY FOOTPRINT EXPANSION LANDWARD OF MHW	747	SF
		QTY	UNIT
	PROPOSED JETTY FOOTPRINT EXPANSION WATERWARD BEYOND MHW, MASS CONCRETE	993	SF
	PROPOSED JETTY FOOTPRINT EXPANSION WATERWARD BEYOND MHW, ECONCRETE FACING	366	SF
	PROPOSED JETTY FOOTPRINT EXPANSION WATERWARD BEYOND MHW, ECONCRETE SHELF	278	SF
	TOTAL JETTY FOOTPRINT EXPANSION WATERWARD BEYOND MHW	1,637	SF
	PROPOSED LOW MOBILITY GROUTING OF VOIDS TO REPAIR EXISTING RIP RAP	53	CY

		QTY	UNIT
	PROPOSED WOOD ACCESS STAIRS OVER BEACH	904	SF
	PROPOSED WOOD PASSIVE BOARDWALK OVER BEACH	1,445	SF
	PROPOSED GRATED PASSIVE BOARDWALK OVER BEACH	324	SF
	PROPOSED PERVIOUS PAVING ON BEACH	1,654	SF
	PROPOSED CONCRETE PLATFORM EXTENDED BEYOND THE EDGE OF EXISTING JETTY OVER BEACH	553	SF
	TOTAL STRUCTURE & PAVING OVER BEACH	4,914	SF

		QTY	UNIT
	PROPOSED CONCRETE PLATFORM EXTENDED LANDWARD OF MHW	1,968	SF
	PROPOSED JETTY HEAD EXTENDED LANDWARD OF MHW	465	SF
	TOTAL STRUCTURE LANDWARD OF MHW	2,433	SF
		QTY	UNIT
	PROPOSED CANTILEVER CONCRETE SLAB PLATFORM WATERWARD BEYOND MHW	895	SF
	PROPOSED REMOVABLE CANTILEVER GRATED CATWALK WITH REMOVABLE RAILING WATERWARD BEYOND MHW	1,780	SF
	PROPOSED CONCRETE PLATFORM EXTENDED BEYOND THE EDGE OF EXISTING SEAWALL WATERWARD BEYOND MHW	136	SF
	PROPOSED JETTY HEAD EXTENDED BEYOND THE PROPOSED JETTY FOOTPRINT EXPANSION WATERWARD BEYOND MHW	310	SF
	PROPOSED STEPDOWN PLATFORMS WATERWARD BEYOND MHW	202	SF
	TOTAL STRUCTURE WATERWARD BEYOND MHW	3,383	SF

PLAN LEGEND

--(XX)--	EXISTING CONTOUR
XX	PROPOSED CONTOUR
(XX.XX)	EXISTING SPOT ELEVATION (VIF.)
XX.XX	PROPOSED SPOT ELEVATION
+HP	HIGH POINT ELEVATION
+LP	LOW POINT ELEVATION
X:X	RATIO OF DOWN SLOPE (HORIZ:VERT)
0.0%	DIRECTION/ PERCENTAGE OF DOWN SLOPE
	GRADE BREAK

NOTE:

1. REFER TO STRUCTURAL DRAWINGS FOR DETAIL STRUCTURAL INFORMATION REGARDING SHEET PILES AND PILES.
2. CONTRACTOR TO VERIFY ALL QUANTITY TAKE OFFS AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.

GRAPHIC SCALE 0 40' 80'

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2550 S Bayshore Drive Suite 206
Miami, FL 33133
(305) 978-3138

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 12/02/2022

REVISIONS:

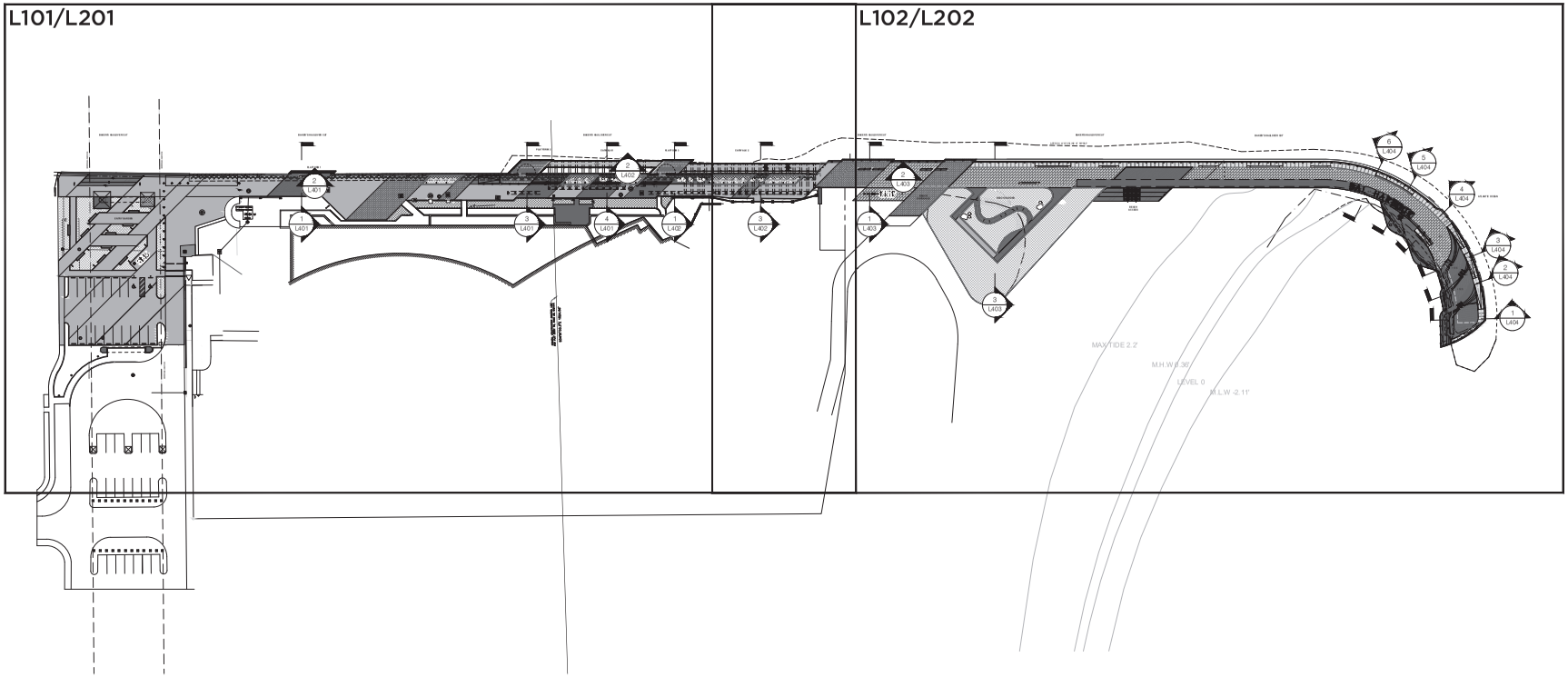
SCALE: 1" = 40'-0"

DRAWING NAME:
SITE CONTEXT PLAN

Ref. North

DRAWING NUMBER:
L001

NOT FOR CONSTRUCTION



MDC017

GRAPHIC SCALE
0 40' 80'

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(305) 978-3138

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

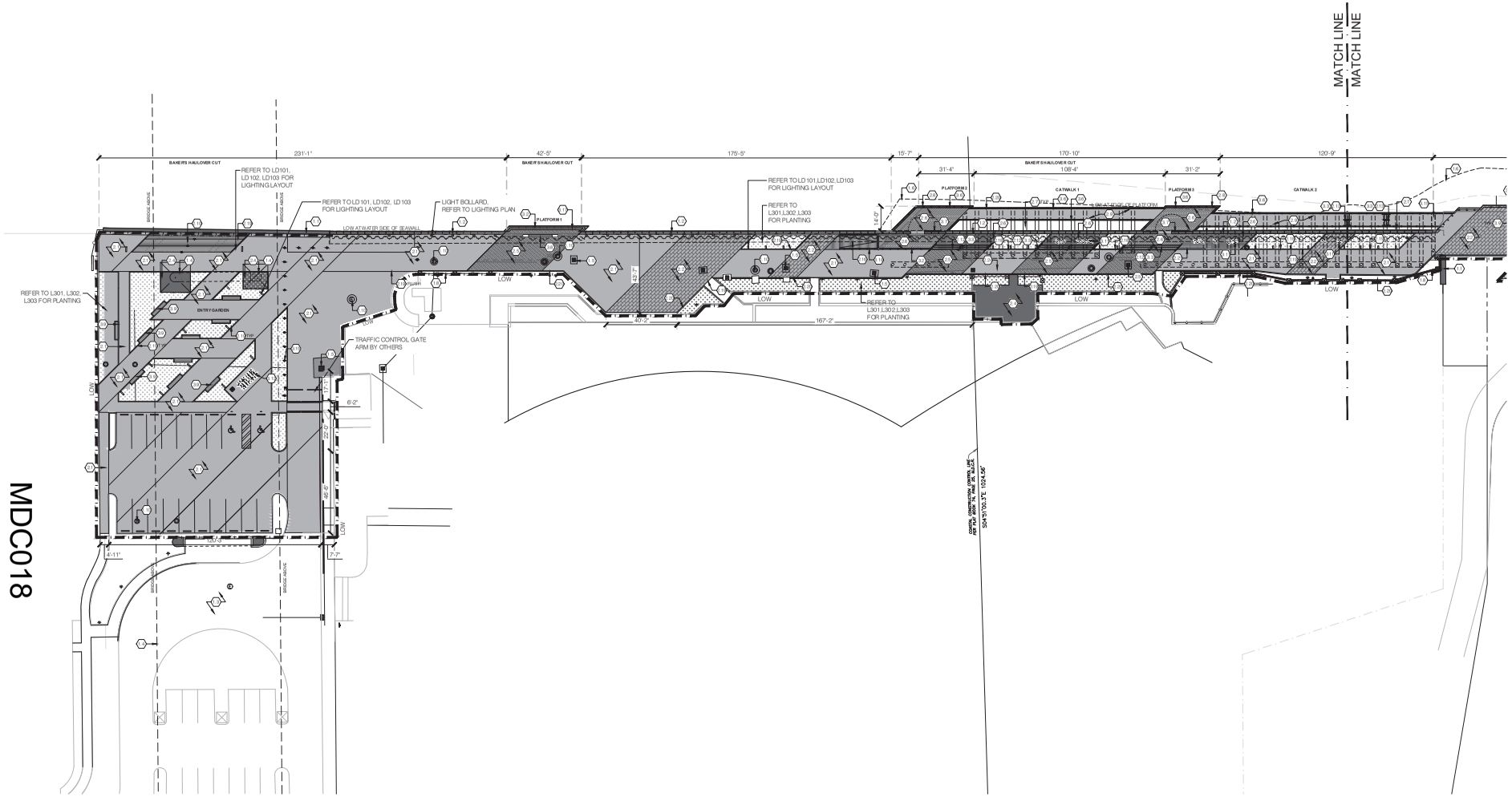
REVISIONS

SCALE: 1" = 40'-0"

DRAWING NAME:
HARDSCAPE KEY PLAN

Ref. North

DRAWING NUMBER:
L100



MDC018

LAYOUT AND MATERIALS PLAN KEY

1.0 EXISTING/ PROPOSED SITE CONDITIONS BY OTHERS

- X1 EXISTING SEAWALL TO REMAIN AND RECONDITIONED
- X2 EXISTING SEAWALL WITH NEW CIP SEAWALL PROFILE
- X3 EXISTING PAVEMENT TO REMAIN AND BE PROTECTED
- X4 EXISTING BRIDGE
- X5 EXISTING CATCH BASIN
- X6 APPROX. WATERLINE AT RIPRAP
- X7 EDGE OF EXISTING JETTY, BELOW
- X8 EXISTING FENCE TO REMAIN AND BE PROTECTED
- X9 EXISTING STAIRS TO REMAIN
- X10 EXISTING UTILITY

2.0 PAVEMENT, SURFACES, STEPS, AND RAMPS

- X1 PRECAST CONCRETE UNIT PAVEMENT - TYPE 1
- X2 PRECAST CONCRETE UNIT PAVEMENT - TYPE 2
- X3 PRECAST CONCRETE UNIT PAVEMENT - TYPE 3
- X4 PAVING - GRAVEL
- X5 WOOD DECKING - TYPE 2 VEHICULAR
- X6 WOOD DECKING - TYPE 1 PEDESTRIAN
- X7 PRECAST CONCRETE BEAM — REFER TO STRUCTURAL
- X8 PRECAST CONCRETE SLAB — REFER TO STRUCTURAL
- X9 NON-SLIP GRATE
- X10 STAIR - ENTRY GARDEN
- X11 STAIR - TYPE 1 CONCRETE
- X12 STAIR - TYPE 2 WOOD
- X13 STAIR - TYPE 3 METAL GRATE
- X14 STAIR - BEACH ACCESS
- X15 ACCESSIBLE RAMP - CONCRETE
- X16 ACCESSIBLE RAMP - WOOD
- X17 METAL GRATE BOARDWALK — 2/L582
- X18 PRECAST CONCRETE CHEEKWALL
- X19 CURB - TYPE 1 CONCRETE FLUSH
- X20 CURB - TYPE 2 PRECAST CONC
- X21 WOOD DECKING EDGE
- X22 WOOD ELEVATED BOARDWALK — 1/L582

3.0 SITE ELEMENTS

- X1 GUARDRAIL - TYPE 1 W/ RAMP HANDRAIL
- X2 GUARDRAIL - TYPE 1
- X3 HANDRAIL - TYPICAL
- X4 SHADE CANOPY W/ WOOD COLUMNS
- X5 SHADE CANOPY W/ METAL COLUMNS
- X6 GUARDRAIL - TYPE 2
- X7 FLOOD GATE
- X8 WOOD BENCH - CUSTOM
- X9 WOOD BENCH
- X10 ANGLED NET HAMMOCK SEAT — 3/L582 4/L582
- X11 SEA VIEW CHAIRS
- X12 BIKE RACK
- X13 ADA PARKING SIGN
- X14 LITTER RECEPTACLE
- X15 BOLLARDS
- X16 DRINKING FOUNTAIN
- X17 GLASS FLOOD WALL BARRIER
- X18 NATURE BOARDWALK — 1/L581 2/L581

4.0 PLANTING AND LANDSCAPE

REFER TO L301, L302, L303 FOR PLANTING

5.0 LIGHTING

REFER TO LD103, LD102, LD103 FOR LIGHTING LAYOUT

GRAPHIC SCALE 0 20' 40'

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(305)978-3138

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

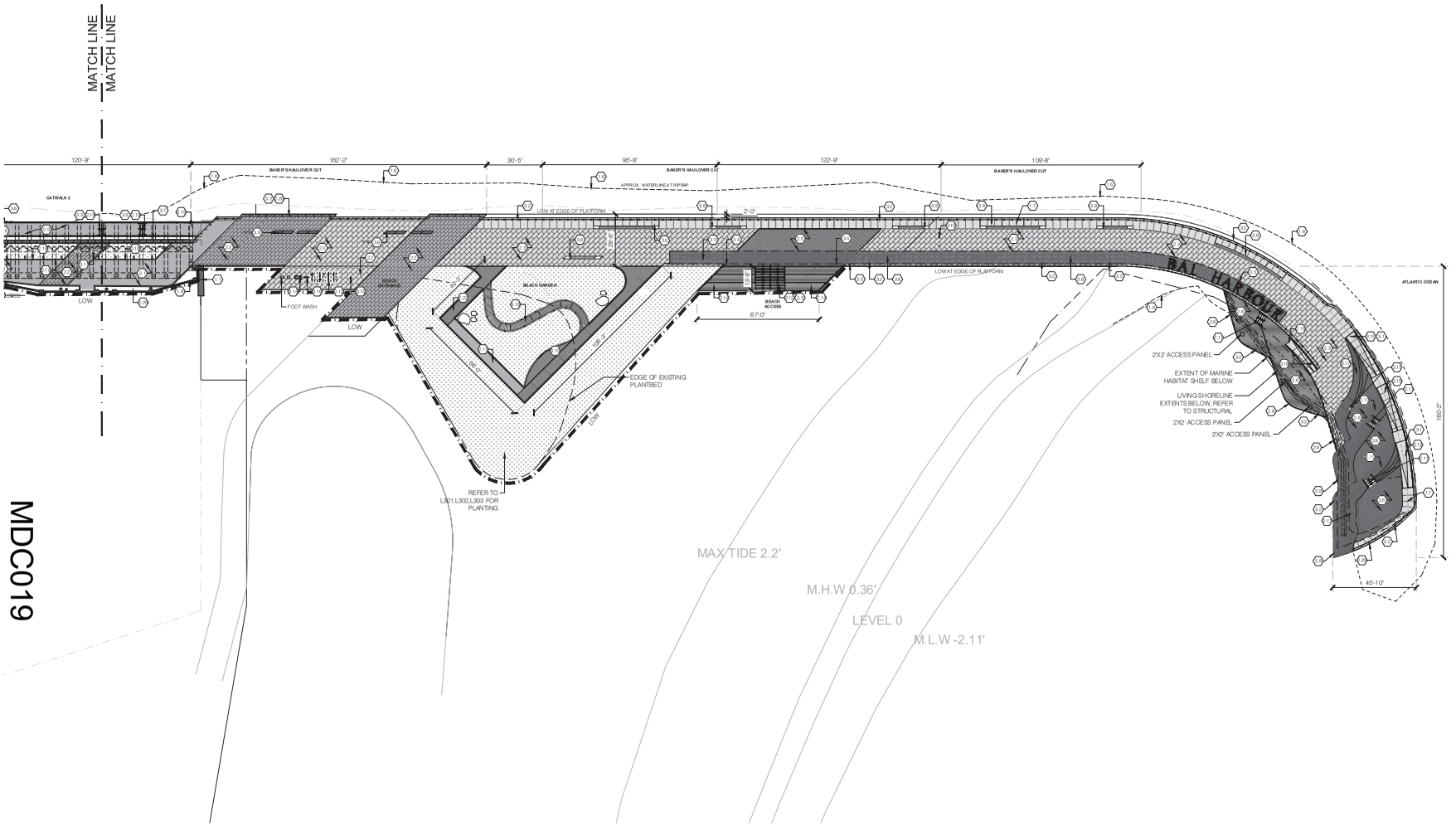
REVISIONS

SCALE: 1" = 20'-0"

DRAWING NAME:
LAYOUT AND MATERIALS PLAN 1

Ref. North

DRAWING NUMBER:
L101



MDC019

LAYOUT AND MATERIALS PLAN KEY

1.0 EXISTING/ PROPOSED SITE CONDITIONS BY OTHERS

- X1 EXISTING SEAWALL TO REMAIN AND RECONDITIONED
- X2 EXISTING SEAWALL WITH NEW CIP SEAWALL PROFILE
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- X4 EXISTING BRIDGE
- X5 EXISTING CATCH BASIN
- X6 APPROX. WATERLINE AT RIPRAP
- X7 EDGE OF EXISTING JETTY, BELOW
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- X9 EXISTING STAIRS TO REMAIN
- X10 EXISTING UTILITY

2.0 PAVEMENT, SURFACES, STEPS, AND RAMPS

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- X13 STAIR - TYPE 3 METAL GRATE
- X14 STAIR - BEACH ACCESS
- X15 ACCESSIBLE RAMP - CONCRETE
- X16 ACCESSIBLE RAMP - WOOD
- X17 METAL GRATE BOARDWALK — 2/L582
- X18 PRECAST CONCRETE CHEEKWALL
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- X22 WOOD ELEVATED BOARDWALK — 1/L582

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- X8 WOOD BENCH - CUSTOM
- X9 WOOD BENCH
- X10 ANGLED NET HAMMOCK SEAT — 3/L582 4/L582
- X11 SEA VIEW CHAIRS
- X12 BIKE RACK
- X13 ADA PARKING SIGN
- X14 LITTER RECEPTACLE
- X15 BOLLARDS
- X16 DRINKING FOUNTAIN
- X17 GLASS FLOOD WALL BARRIER
- X18 NATURE BOARDWALK — 1/L581 2/L581

4.0 PLANTING AND LANDSCAPE

REFER TO L301, L302, L303 FOR PLANTING

5.0 LIGHTING

REFER TO LD103, LD102, LD103 FOR LIGHTING LAYOUT

GRAPHIC SCALE 0 4' 8'

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Miami, FL 33133
(305)978-3138

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS

SCALE: 1" = 20'-0"

DRAWING NAME:
LAYOUT AND MATERIALS PLAN 2

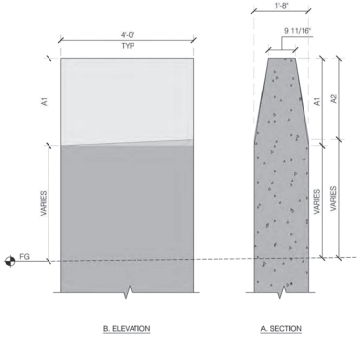
Ref. North

DRAWING NUMBER:
L102

NOT FOR CONSTRUCTION

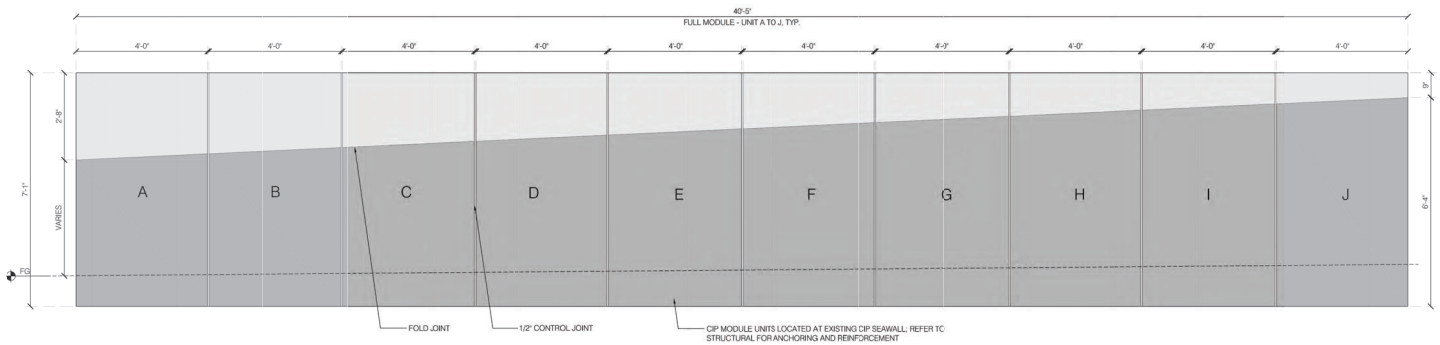
SHEET NOTE:

1. UNIT A-J IDENTIFIED TO ASSIST IN FABRICATION OF FORM WORK FOR CAST IN PLACE SEAWALL
2. FINAL FORM WORK TO BE COORDINATED WITH SUB BY CONTRACTOR
3. NEW SEAWALL PROFILE TO BE ATTACHED TO EXISTING SEAWALL

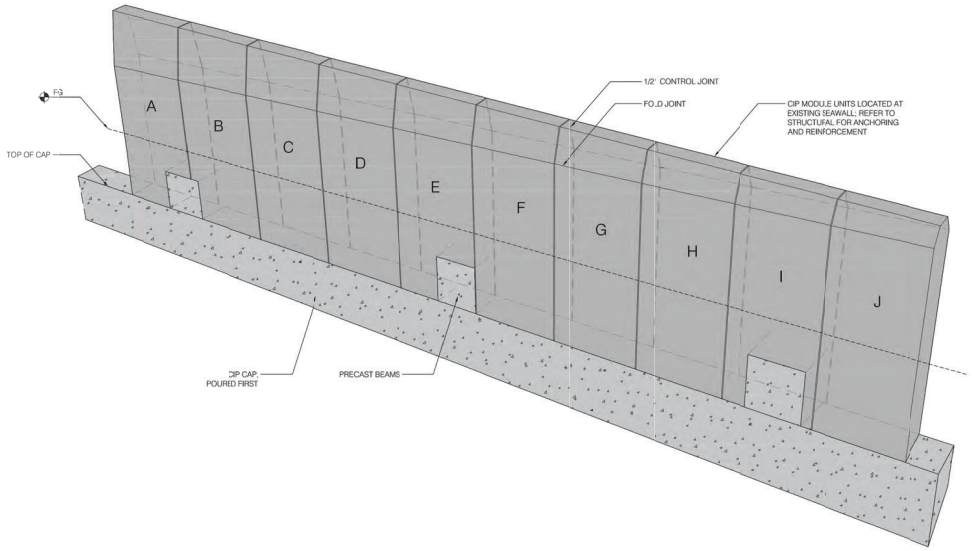


MODULE	HEIGHT (A1)	HEIGHT (A2)
A	2'-8"	2'-8"
B	2'-8"	2'-5"
C	2'-3"	2'-3"
D	2'-1"	2'-1"
E	1'-10"	1'-10"
F	1'-9"	1'-9"
G	1'-8"	1'-8"
H	1'-4"	1'-4"
I	1'-2"	1'-2"
J	1'-1"	1'-1"

1 SEAWALL MODULE DIMENSIONS
3/4" = 1'-0"
SECTION



2 SEAWALL MODULE SET
3/4" = 1'-0"
ELEVATION



3 SEAWALL MODULE SET
NTS
AXON

MDC020

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BAKERS HAUL OVER CUT

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Miami, FL 33133
(305)978-3138

MYD PROJECT NUMBER: 5-419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

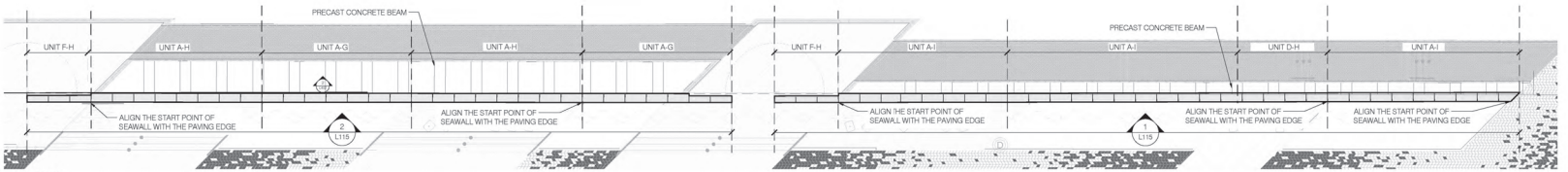
REVISIONS:

SCALE:

DRAWING NAME:
SEAWALL DETAILS

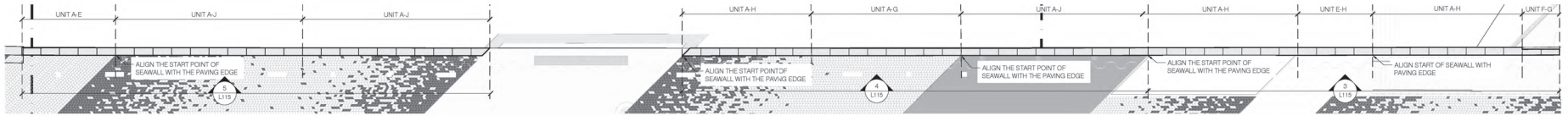
DRAWING NUMBER:
L114

NOT FOR CONSTRUCTION



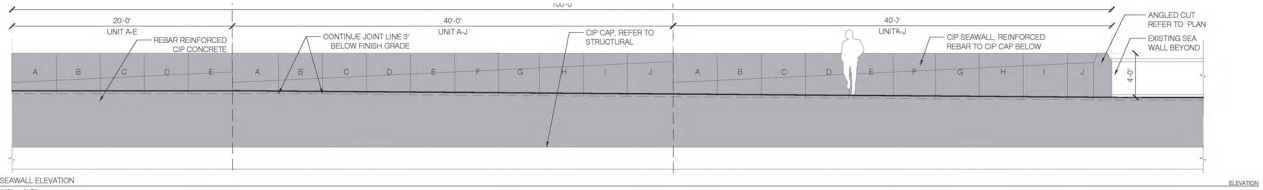
7 KEYPLAN-2
NTS

ELEVATION



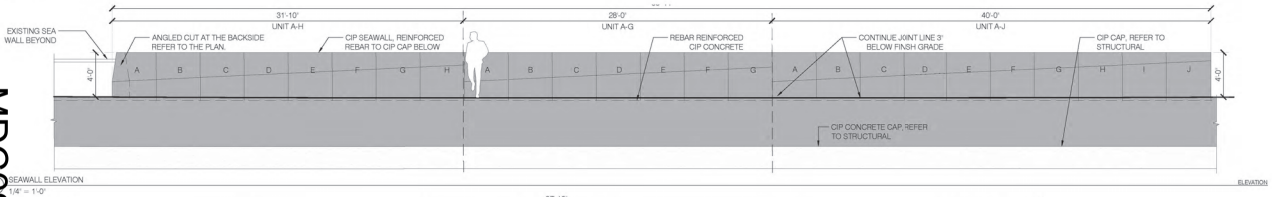
6 KEYPLAN-1
NTS

VIEW



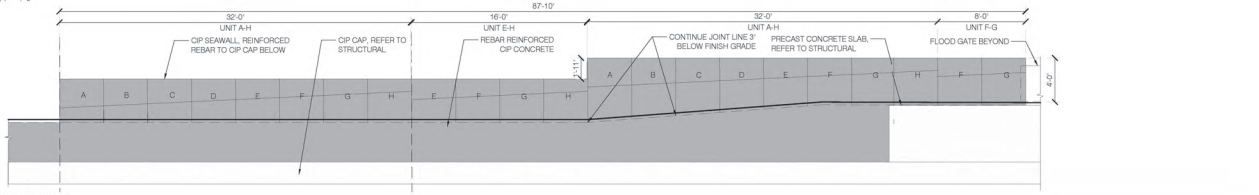
5 SEAWALL ELEVATION
1/4" = 1'-0"

ELEVATION



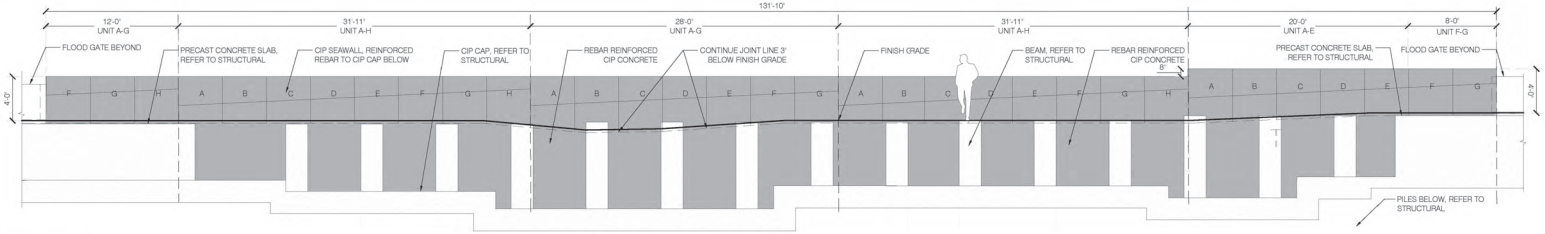
4 SEAWALL ELEVATION
1/4" = 1'-0"

ELEVATION



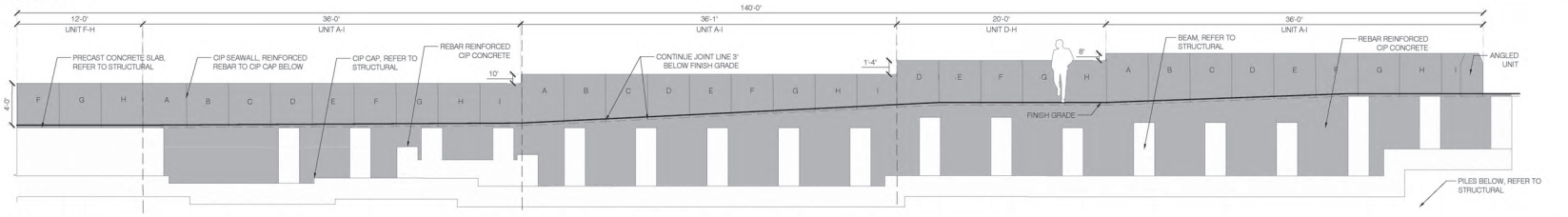
3 SEAWALL ELEVATION
1/4" = 1'-0"

ELEVATION



2 SEAWALL ELEVATION
1/4" = 1'-0"

ELEVATION



1 SEAWALL ELEVATION
1/4" = 1'-0"

ELEVATION

MDC021

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BAL HARBOUR

THE CUT WALK AND JETTY
BAKERS HAUL/OVER CUT

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Miami, FL 33133
(305)978-3138

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

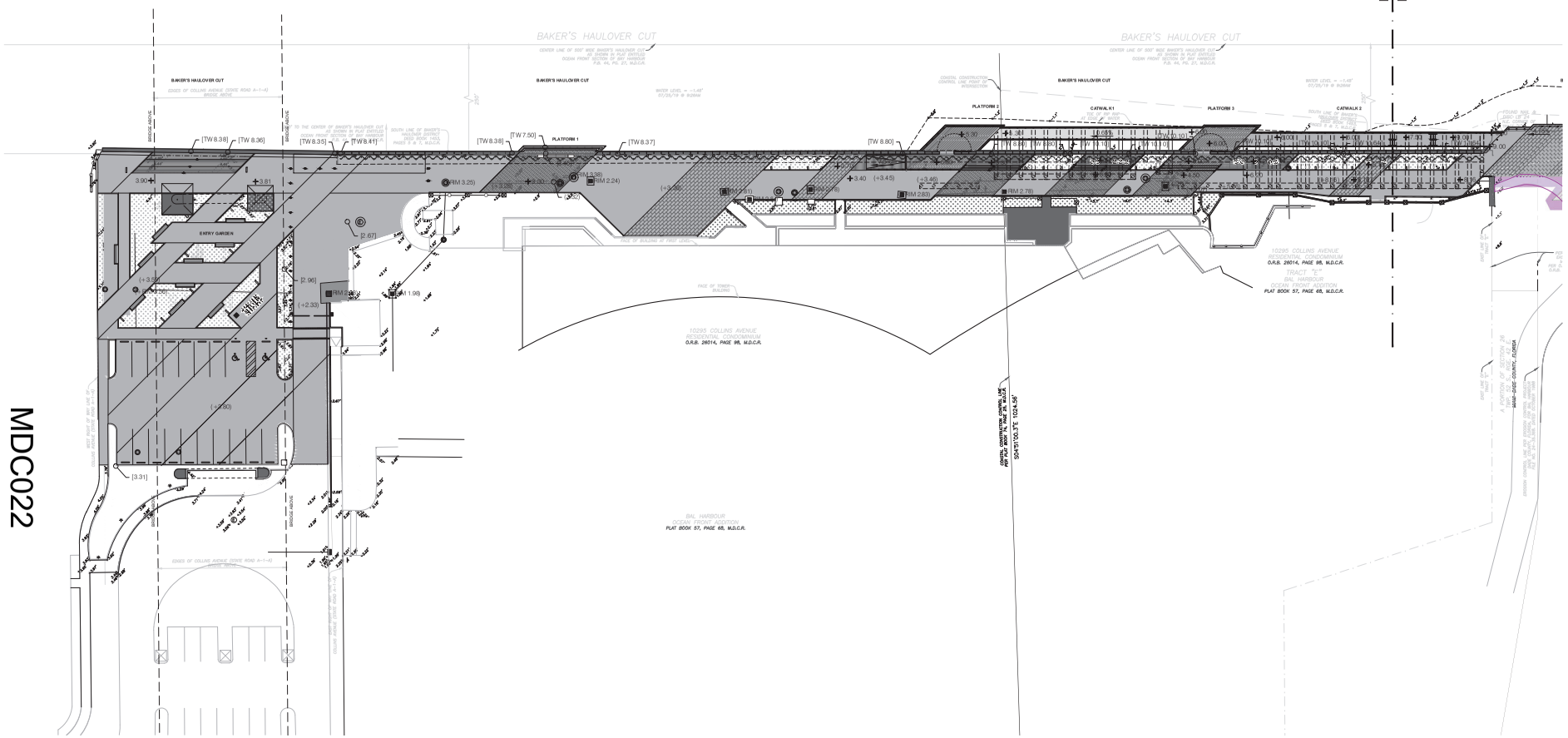
REVISIONS:

SCALE:

DRAWING NAME:
SEAWALL DETAILS

DRAWING NUMBER:
L115

NOT FOR CONSTRUCTION



MDC022

GRADING PLAN LEGEND

--(XX)--	EXISTING CONTOUR
XXX	PROPOSED CONTOUR
(XX.XX)	EXISTING SOPT ELEVATION (MF.)
XX.XX	PROPOSED SPOT ELEVATION
+HP	HIGH POINT ELEVATION
+LP	LOW POINT ELEVATION
X:X	RATIO OF DOWN SLOPE (HOIZ:VERT)
0.0%	DIRECTION/ PERCENTAGE OF DOWN SLOPE
	GRADE BREAK
	BEACH EXCAVATION AREA AT BEACH ACCESS STAIR (23.97 CY)
	BEACH FILL AREA AT BEACH GARDEN (23.97 CY)
	EXISTING BEACH VEGETATION AREA WITHIN LIMIT OF WORK (7,350 SF)
	DISTURBED BEACH VEGETATION AREA NOT TO BE REPLACED (423.7 SF)
	DISTURBED BEACH VEGETATION AREA TO BE REPLACED WITH NEW NATIVE PLANTING (1,563.6 SF)
	UNDISTURBED BEACH VEGETATION AREA (5,886.1 SF)
	ADDITIONAL BEACH VEGETATION AREA (5,338.8 SF)

NOTE: REFER TO PLANTING PLANS L301-L304 FOR ALL PROPOSED PLANTING

GRAPHIC SCALE
0 20' 40'

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THE CUT WALKAND JETTY
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(305) 978-3138

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS

SCALE: 1" = 20'-0"

DRAWING NAME:

GRADING PLAN 1

Ref. North

DRAWING NUMBER:

L201

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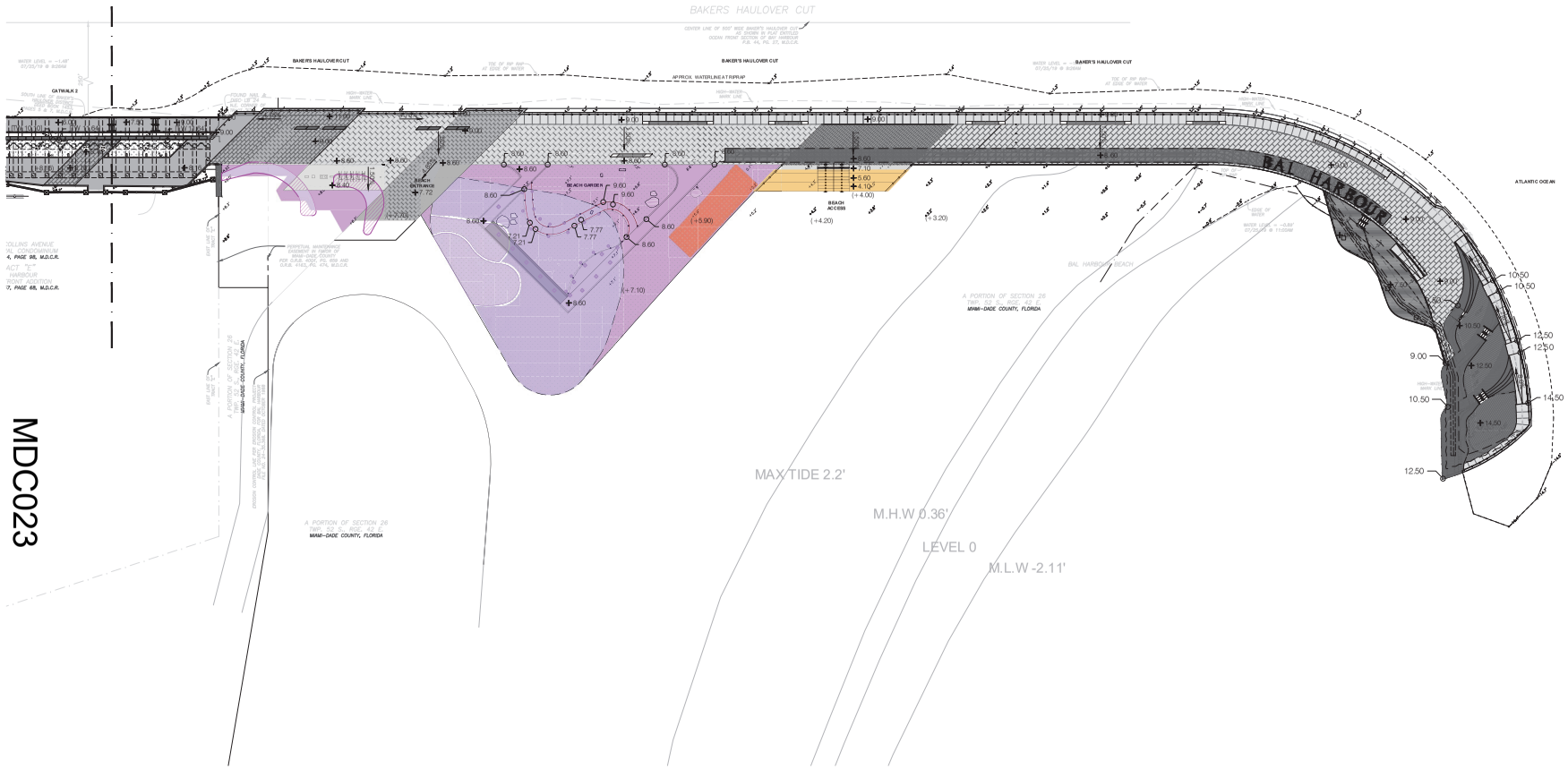

GRADING PLAN LEGEND

- EXISTING CONTOUR
- XXX — PROPOSED CONTOUR
- (XX.XX) — EXISTING SOFT ELEVATION (MF.)
- XX.XX — PROPOSED SPOT ELEVATION
- +HP — HIGH POINT ELEVATION
- +LP — LOW POINT ELEVATION
- X:X — RATIO OF DOWN SLOPE (HOIZ:VERT)
- 0.0% — DIRECTION/ PERCENTAGE OF DOWN SLOPE
- GRADE BREAK
- BEACH EXCAVATION AREA AT BEACH ACCESS STAIR (23.97 CY)
- BEACH FILL AREA AT BEACH GARDEN (23.97 CY)
- EXISTING BEACH VEGETATION AREA WITHIN LIMIT OF WORK (7,350 SF)
- DISTURBED BEACH VEGETATION AREA NOT TO BE REPLACED (423.7 SF)
- DISTURBED BEACH VEGETATION AREA TO BE REPLACED WITH NEW NATIVE PLANTING (1,563.6 SF)
- UNDISTURBED BEACH VEGETATION AREA (5,886.1 SF)
- ADDITIONAL BEACH VEGETATION AREA (5,338.8 SF)

NOTE: REFER TO PLANTING PLANS L301-L304 FOR ALL PROPOSED PLANTING

GRAPHIC SCALE 0 20' 40'

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS

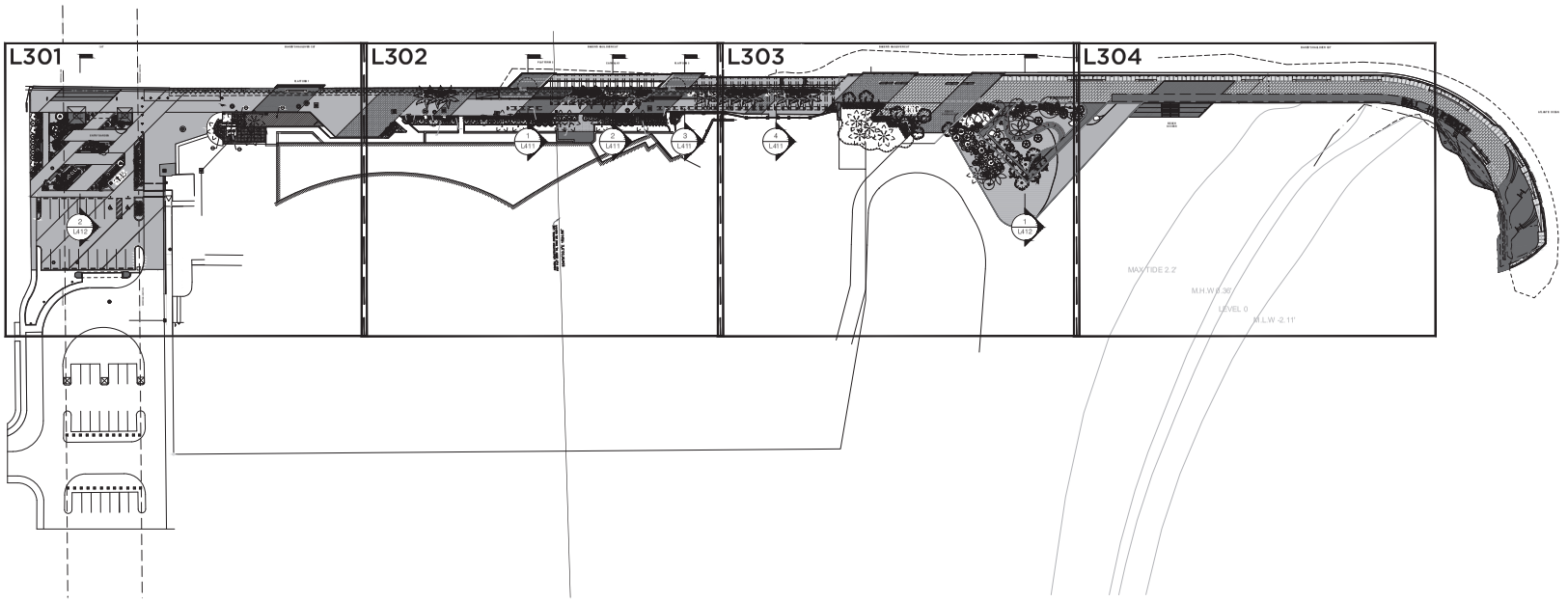
SCALE: 1" = 20'-0"

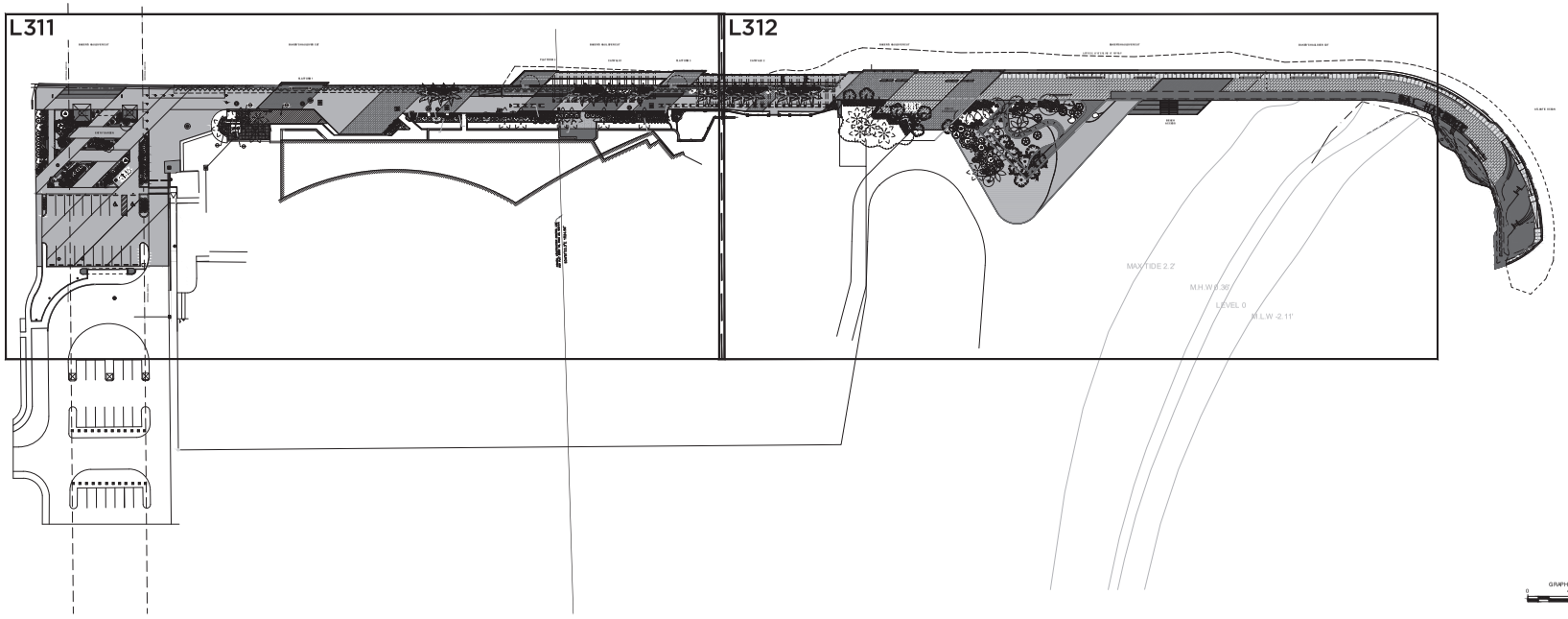
DRAWING NAME:
GRADING PLAN 2

Ref. North

DRAWING NUMBER:
L202

NOT FOR CONSTRUCTION





MDC024

GRAPHIC SCALE
0 40' 80'

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS

SCALE 1" = 40'-0"

DRAWING NAME:
LANDSCAPE KEY PLAN

Ref. North

DRAWING NUMBER:
L300

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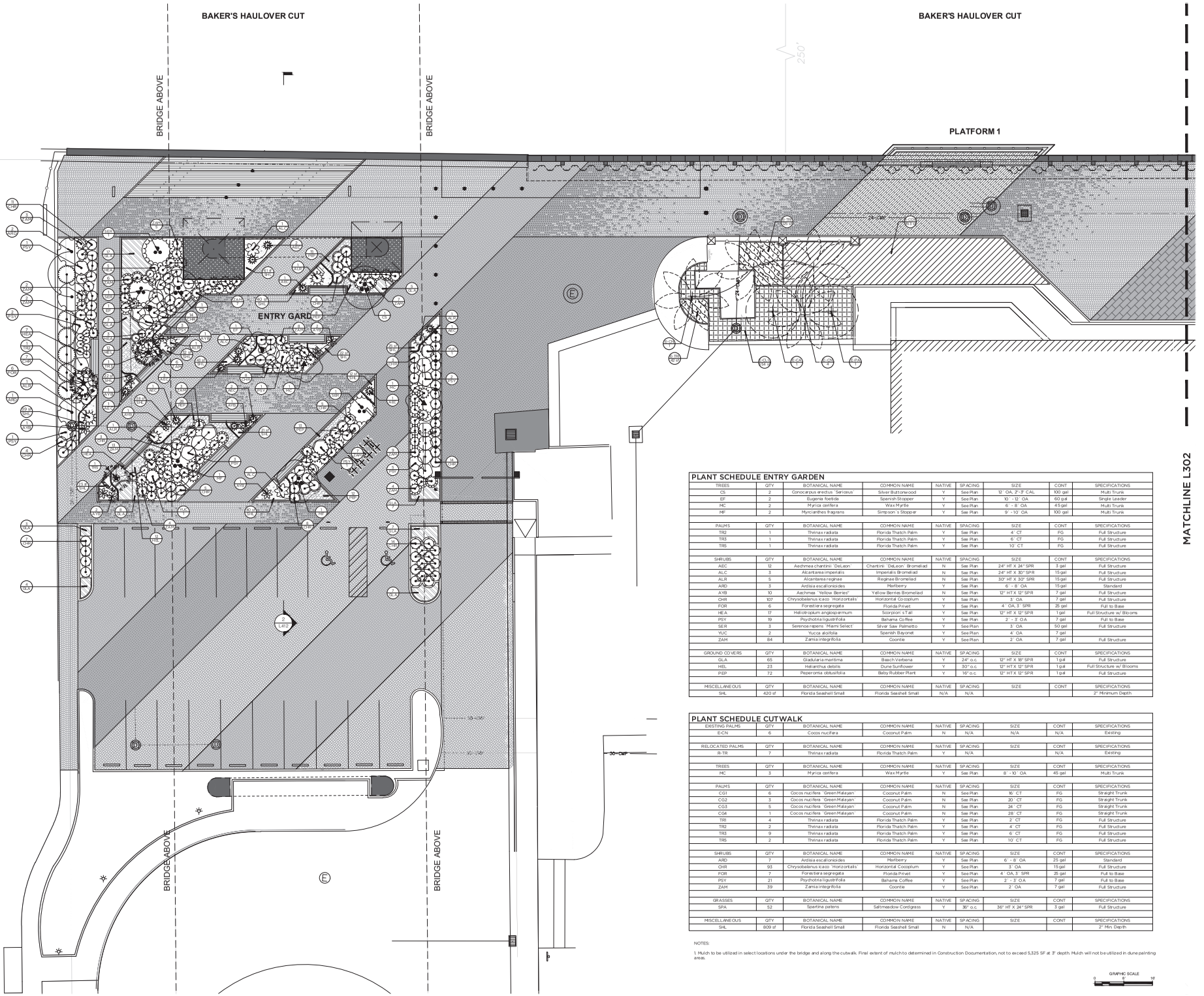

PLANT SCHEDULE ENTRY GARDEN

TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
CS	2	Conocarpus erectus `Sericeus`	Silver Buttonwood	Y	See Plan	12` OA, 2"-3" CAL	100 gal	Multi Trunk
EF	2	Eugenia foetida	Spanish Stopper	Y	See Plan	10` - 12` OA	60 gal	Single Leader
MC	2	Myrica cerifera	Wax Myrtle	Y	See Plan	6` - 8` OA	45 gal	Multi Trunk
MF	2	Myrcianthes fragrans	Simpson`s Stopper	Y	See Plan	9` - 10` OA	100 gal	Multi Trunk

PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
TR2	1	Thrinax radiata	Florida Thatch Palm	Y	See Plan	4` CT	FG	Full Structure
TR3	1	Thrinax radiata	Florida Thatch Palm	Y	See Plan	6` CT	FG	Full Structure
TR5	1	Thrinax radiata	Florida Thatch Palm	Y	See Plan	10` CT	FG	Full Structure

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
AEC	12	Aechmea chantinii `DeLeon`	Chantinii `DeLeon` Bromeliad	N	See Plan	24" HT X 24" SPR	3 gal	Full Structure
ALC	3	Alcantarea imperialis	Imperialis Bromeliad	N	See Plan	24" HT X 30" SPR	15 gal	Full Structure
ALR	5	Alcantarea reginae	Reginae Bromeliad	N	See Plan	30" HT X 30" SPR	15 gal	Full Structure
ARD	3	Ardisia escallonioides	Marlberry	Y	See Plan	6` - 8` OA	15 gal	Standard
AYB	10	Aechmea `Yellow Berries`	Yellow Berries Bromeliad	N	See Plan	12" HT X 12" SPR	7 gal	Full Structure
CHR	107	Chrysobalanus icaco `Horizontalis`	Horizontal Cocoplum	Y	See Plan	3` OA	7 gal	Full Structure
FOR	6	Forestiera segregata	Florida Privet	Y	See Plan	4` OA, 3` SPR	25 gal	Full to Base
HEA	17	Heliotropium angiospermum	Scorpion`s Tail	Y	See Plan	12" HT X 12" SPR	1 gal	Full Structure w/ Blooms
PSY	19	Psychotria ligustrifolia	Bahama Coffee	Y	See Plan	2` - 3` OA	7 gal	Full to Base
SER	3	Serenoa repens `Miami Select`	Silver Saw Palmetto	Y	See Plan	3` OA	50 gal	Full Structure
YUC	2	Yucca aloifolia	Spanish Bayonet	Y	See Plan	4` OA	7 gal	
ZAM	84	Zamia integrifolia	Coontie	Y	See Plan	2` OA	7 gal	Full Structure

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
GLA	65	Gaudularia maritima	Beach Verbena	Y	24" o.c.	12" HT X 18" SPR	1 gal	Full Structure
HEL	23	Helianthus debilis	Dune Sunflower	Y	30" o.c.	12" HT X 12" SPR	1 gal	Full Structure w/ Blooms
PEP	72	Peperomia obtusifolia	Baby Rubber Plant	Y	16" o.c.	12" HT X 12" SPR	1 gal	Full Structure

MISCELLANEOUS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
SHL	420 sf	Florida Seashell Small	Florida Seashell Small	N/A	N/A			2" Minimum Depth

PLANT SCHEDULE CUTWALK

EXISTING PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
E-CN	6	Cocos nucifera	Coconut Palm	N	N/A	N/A	N/A	Existing

RELOCATED PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
R-TR	7	Thrinax radiata	Florida Thatch Palm	Y	N/A		N/A	Existing

TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
MC	3	Myrica cerifera	Wax Myrtle	Y	See Plan	8` - 10` OA	45 gal	Multi Trunk

PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
CG1	6	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	16` CT	FG	Straight Trunk
CG2	3	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	20` CT	FG	Straight Trunk
CG3	5	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	24` CT	FG	Straight Trunk
CG4	1	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	28` CT	FG	Straight Trunk
TR1	4	Thrinax radiata	Florida Thatch Palm	Y	See Plan	2` CT	FG	Full Structure
TR2	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	4` CT	FG	Full Structure
TR3	9	Thrinax radiata	Florida Thatch Palm	Y	See Plan	6` CT	FG	Full Structure
TR5	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	10` CT	FG	Full Structure

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
ARD	7	Ardisia escallonioides	Marlberry	Y	See Plan	6` - 8` OA	25 gal	Standard
CHR	93	Chrysobalanus icaco `Horizontalis`	Horizontal Cocoplum	Y	See Plan	3` OA	15 gal	Full Structure
FOR	7	Forestiera segregata	Florida Privet	Y	See Plan	4` OA, 3` SPR	25 gal	Full to Base
PSY	21	Psychotria ligustrifolia	Bahama Coffee	Y	See Plan	2` - 3` OA	7 gal	Full to Base
ZAM	39	Zamia integrifolia	Coontie	Y	See Plan	2` OA	7 gal	Full Structure

GRASSES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
SPA	52	Spartina patens	Saltmeadow Cordgrass	Y	36" o.c.	36" HT X 24" SPR	3 gal	Full Structure

MISCELLANEOUS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
SHL	809 sf	Florida Seashell Small	Florida Seashell Small	N	N/A			2" Min. Depth

NOTES:

1. Mulch to be utilized in select locations under the bridge and along the cutwalk. Final extent of mulch to determined in Construction Documentation, not to exceed 5,325 SF at 3" depth. Mulch will not be utilized in dune painting areas.

GRAPHIC SCALE 0 8 16'

BAL HARBOUR

THE CUT WALK AND JETTY
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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10.26.2022

REVISIONS

SCALE: 1/8" = 1'-0"

DRAWING NAME:
PLANTING PLAN

Ref. North

DRAWING NUMBER:
L301

NOT FOR CONSTRUCTION

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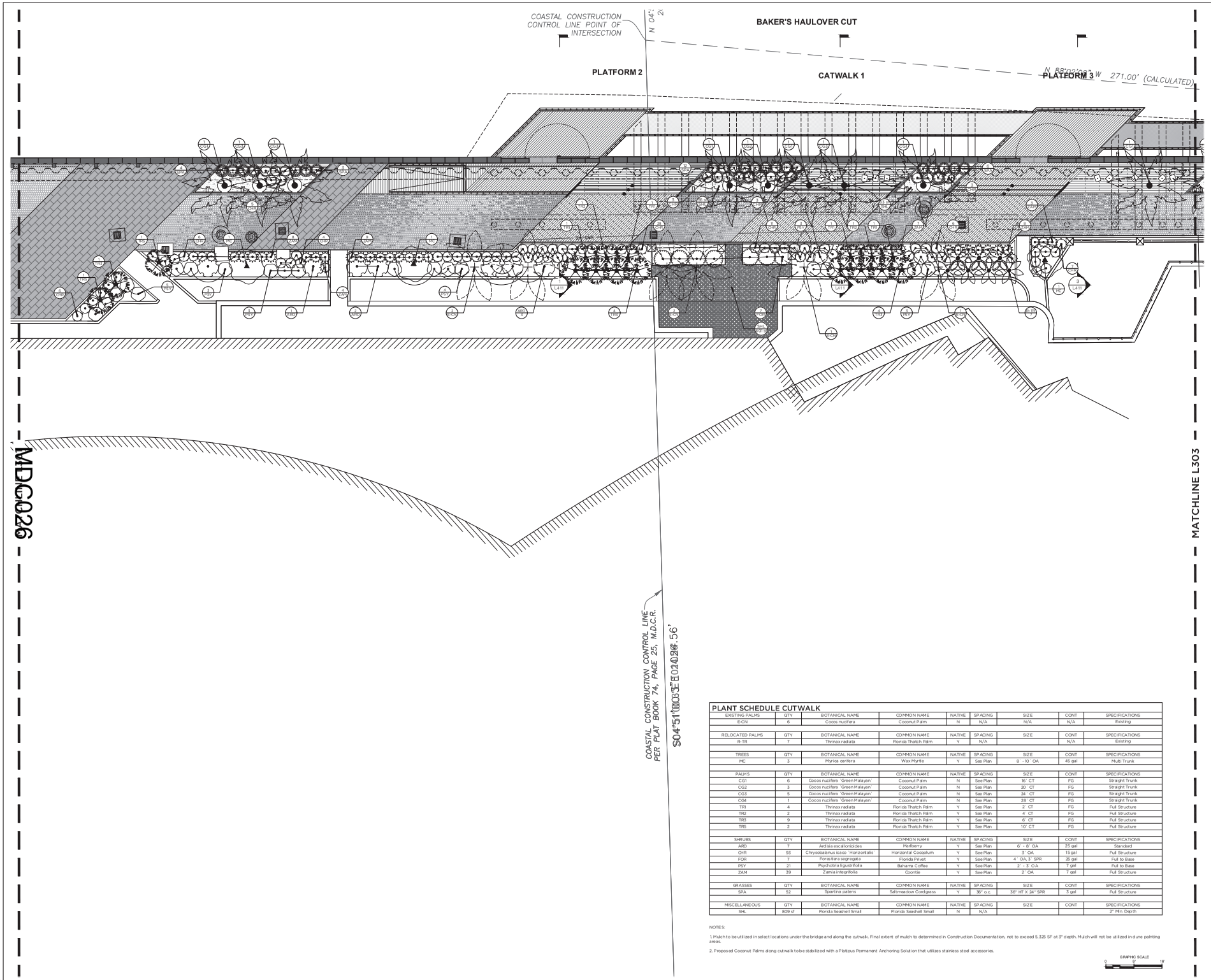

PLANT SCHEDULE CUTWALK

EXISTING PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
E-CN	6	Cocos nucifera	Coconut Palm	N	N/A	N/A	N/A	Existing
RELOCATED PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
R-TR	7	Thrinax radiata	Florida Thatch Palm	Y	N/A		N/A	Existing
TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
MC	3	Myrica cerifera	Wax Myrtle	Y	See Plan	8` - 10` OA	45 gal	Multi Trunk
PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
CG1	6	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	16` CT	FG	Straight Trunk
CG2	3	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	20` CT	FG	Straight Trunk
CG3	5	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	24` CT	FG	Straight Trunk
CG4	1	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	28` CT	FG	Straight Trunk
TR1	4	Thrinax radiata	Florida Thatch Palm	Y	See Plan	2` CT	FG	Full Structure
TR2	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	4` CT	FG	Full Structure
TR3	9	Thrinax radiata	Florida Thatch Palm	Y	See Plan	6` CT	FG	Full Structure
TR5	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	10` CT	FG	Full Structure
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
ARD	7	Ardisia escallonioides	Marlberry	Y	See Plan	6` - 8` OA	25 gal	Standard
CHR	93	Chrysobalanus icaco `Horizontalis`	Horizontal Cocoplum	Y	See Plan	3` OA	15 gal	Full Structure
FOR	7	Forestiera segregata	Florida Privet	Y	See Plan	4` OA, 3` SPR	25 gal	Full to Base
PSY	21	Psychotria ligustrifolia	Bahama Coffee	Y	See Plan	2` - 3` OA	7 gal	Full to Base
ZAM	39	Zamia integrifolia	Coontie	Y	See Plan	2` OA	7 gal	Full Structure
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
SPA	52	Spartina patens	Saltmeadow Cordgrass	Y	36" o.c.	36" HT X 24" SPR	3 gal	Full Structure
MISCELLANEOUS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
SHL	809 sf	Florida Seashell Small	Florida Seashell Small	N	N/A			2" Min. Depth

NOTES:

1. Mulch to be utilized in select locations under the bridge and along the cutwalk. Final extent of mulch to determined in Construction Documentation, not to exceed 5,325 SF at 3" depth. Mulch will not be utilized in dune painting areas.

2. Proposed Coconut Palms along cutwalk to be stabilized with a Platipus Permanent Anchoring Solution that utilizes stainless steel accessories.

GRAPHIC SCALE
0 8 16'

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS

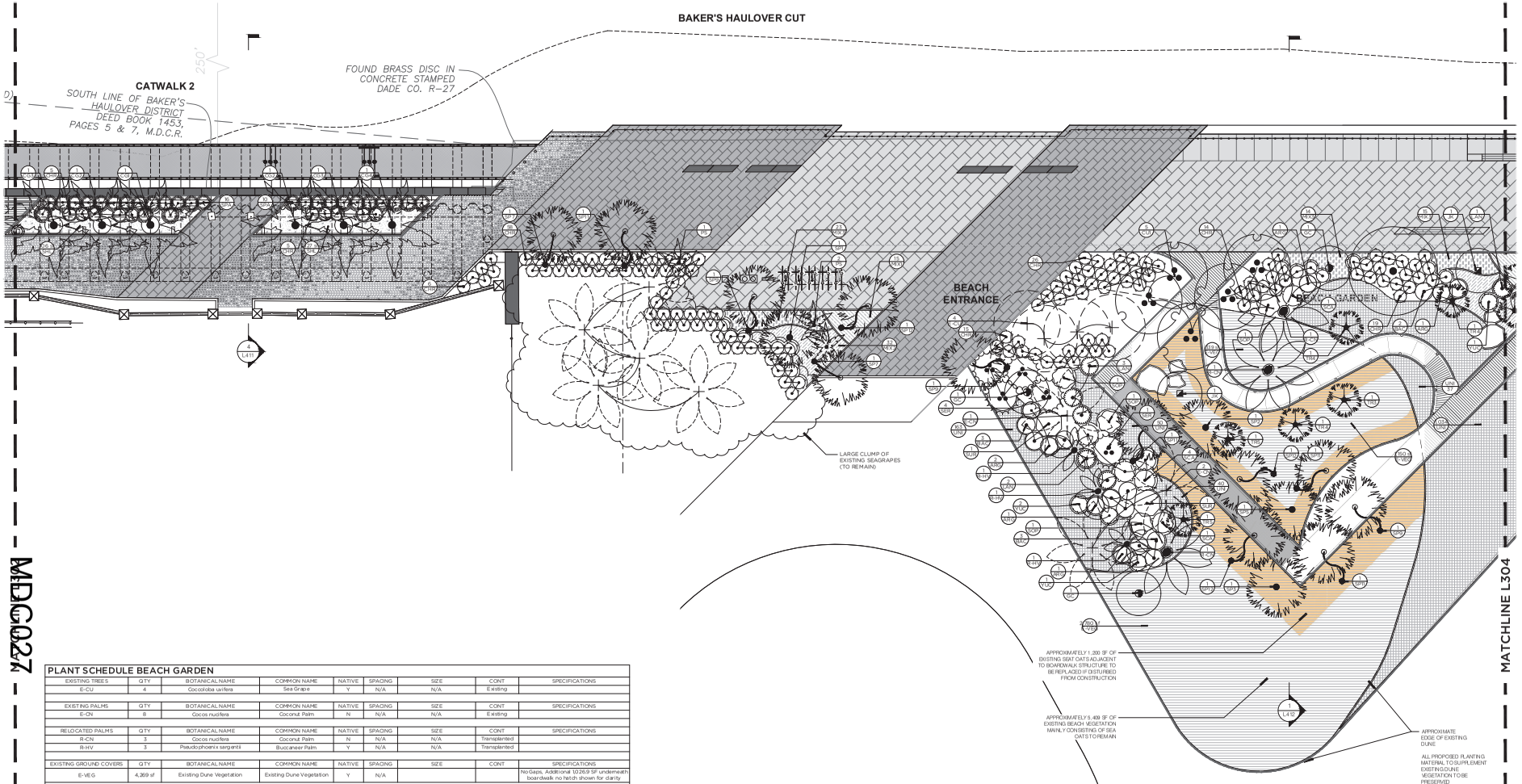
SCALE: 1/8" = 1'-0"

DRAWING NAME:
PLANTING PLAN

Ref. North

DRAWING NUMBER:
L302

NOT FOR CONSTRUCTION



PLANT SCHEDULE BEACH GARDEN

EXISTING TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
E-CU	4	Coccoloba uvifera	Sea Grape	Y	N/A	N/A	Existing	
EXISTING PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
E-CN	8	Cocos nucifera	Coconut Palm	N	N/A	N/A	Existing	
RELOCATED PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
R-CN	3	Cocos nucifera	Coconut Palm	N	N/A	N/A	Transplanted	
R-HV	3	Pseudophoenix sargentii	Buccaneer Palm	Y	N/A	N/A	Transplanted	
EXISTING GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
E-VEG	4,269 sf	Existing Dune Vegetation	Existing Dune Vegetation	Y	N/A			No Gaps. Additional 1,026.9 SF underneath boardwalk no hatch shown for clarity
TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
CE	1	Conocarpus erectus	Green Buttonwood	Y	See Plan	22' - 24' OA, 8" CAL.	FG	Specimen Selected by LA
CU1	5	Coccoloba uvifera	Sea Grape	Y	See Plan	14' - 16' OA, 4" - 6" CAL.	FG	Multi Trunk Character Specimens, Matching and to be approved by LA
GC	3	Genipa clusiifolia	Seven Year Apple	Y	See Plan	5' - 6' OA	25 gal	Full Structure
JK	2	Jacquinia keyensis	Joewood	Y	See Plan	6' OA	25 gal	Full Structure
PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
PS	3	Pseudophoenix sargentii	Buccaneer Palm	Y	See Plan	6' - 8' OA	30 gal	Full Structure
SP1	1	Sabal palmetto	Sabal Palm	Y	See Plan	16' CT	FG	Straight Slick Trunk, Regenerated
SP11	4	Sabal palmetto	Sabal Palm	Y	See Plan	30' CT	FG	Slick, S-Curved Trunk, Regenerated
SP12	3	Sabal palmetto	Sabal Palm	Y	See Plan	36' CT	FG	Slick, S-Curved Trunk, Regenerated
SP2	1	Sabal palmetto	Sabal Palm	Y	See Plan	24' CT	FG	Straight Slick Trunk, Regenerated
SP3	1	Sabal palmetto	Sabal Palm	Y	See Plan	28' CT	FG	Straight Slick Trunk, Regenerated
SP5	1	Sabal palmetto	Sabal Palm	Y	See Plan	32' CT	FG	Straight Slick Trunk, Regenerated
SP7	2	Sabal palmetto	Sabal Palm	Y	See Plan	18' CT	FG	Curved Slick Trunk, Regenerated
SP9	3	Sabal palmetto	Sabal Palm	Y	See Plan	24' CT	FG	Slick, S-Curved Trunk, Regenerated
TR3	3	Thrinax radiata	Florida Thatch Palm	Y	See Plan	6' CT	FG	Full Structure
TR4	3	Thrinax radiata	Florida Thatch Palm	Y	See Plan	8' CT	FG	Full Structure
TR5	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	10' CT	FG	Full Structure
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
ARG	6	Argusia gnaphalodes	Sea Lavender	Y	See Plan	3' OA	1 gal	Full Structure w/ Blooms
BAC	11	Baccharis dioica	Salt Bush	Y	See Plan	2' - 3' OA	7 gal	Full to Base
CHR	136	Chrysobalanus icaco `Horizontalis`	Horizontal Cocoplum	Y	See Plan	3' OA	15 gal	Full Structure
LAN	6	Lantana involucrata	Button Sage	Y	See Plan	2' - 3' OA	3 gal	Full Structure w/ Blooms
SCA	6	Scaevola plumieri	Inkberry	Y	See Plan	2' OA	1 gal	Full Structure
SER	5	Serenoa repens `Miami Select`	Silver Saw Palmetto	Y	See Plan	3' OA	50 gal	Full Structure
SOP	4	Sophora tomentosa truncata	Yellow Necklacepod	Y	See Plan	3' - 4' OA	7 gal	Full Structure
SUR	2	Suriana maritima	Bay Cedar	Y	See Plan	3' OA	25 gal	Full Structure w/ Blooms
YUC	4	Yucca aloifolia	Spanish Bayonet	Y	See Plan	4' OA	7 gal	Full Structure
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
UNI	1,535	Uniola paniculata	Sea Oats	Y	18" o.c.	1' O.A	96 Cell Liner	
	-1200 SF	Uniola paniculata	Sea Oats	Y	18" o.c.	1' O.A	96 Cell Liner	Replaced as needed due to disturbance from construction of bridge structure
GROUND COVER MIXES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
MIX1	64	Beach Garden Mix 1 Gaudalara maritima Helianthus debilis	Beach Garden Mix 1 Beach Verbena Dune Sunflower	Y	24" o.c.	12" HT X 12" SPR	1 gal	Full Structure, 50% // 50% Mix
MIX2	76	Beach Garden Mix 2 Ipomoea pes-caprae brasiliensis Sesuvium portulacastrum	Beach Garden Mix 2 Railroad Vine Sea Purslane	Y	24" o.c.	12" HT X 12" SPR	1 gal	Full Structure, 50% // 50% Mix
MIX3	52	Beach Garden Mix 3 Gaillardia pulchella Helianthus debilis	Beach Garden Mix 3 Blanket Flower Dune Sunflower	Y	24" o.c.	12" HT X 12" SPR	1 gal	Full Structure, 50% // 50% Mix

NOTES:

1. Mulch to be utilized in select locations under the bridge and along the catwalk. Final extent of mulch to determined in Construction Documentation, not to exceed 5,325 SF at 3" depth. Mulch will not be utilized in dune planting areas.
2. Proposed Coconut Palms along catwalk to be stabilized with a Platipus Permanent Anchoring Solution that utilizes stainless steel accessories.
3. Proposed specimen trees, as well as Sabal Palms and Florida Thatch Palms to be stabilized with a Platipus Permanent Anchoring Solution that utilizes stainless steel accessories.

PLANT SCHEDULE CUTWALK

EXISTING PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
E-CN	6	Cocos nucifera	Coconut Palm	N	N/A	N/A	N/A	Existing
RELOCATED PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
R-TR	7	Thrinax radiata	Florida Thatch Palm	Y	N/A		N/A	Existing
TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
MC	3	Myrica cerifera	Wax Myrtle	Y	See Plan	8' - 10' OA	45 gal	Multi Trunk
PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
CG1	6	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	16' CT	FG	Straight Trunk
CG2	3	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	20' CT	FG	Straight Trunk
CG3	5	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	24' CT	FG	Straight Trunk
CG4	1	Cocos nucifera `Green Malayan`	Coconut Palm	N	See Plan	28' CT	FG	Straight Trunk
TR1	4	Thrinax radiata	Florida Thatch Palm	Y	See Plan	2' CT	FG	Full Structure
TR2	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	4' CT	FG	Full Structure
TR3	9	Thrinax radiata	Florida Thatch Palm	Y	See Plan	6' CT	FG	Full Structure
TR5	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	10' CT	FG	Full Structure
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
ARD	7	Ardisia escallonioides	Marlberry	Y	See Plan	6' - 8' O.A	25 gal	Standard
CHR	93	Chrysobalanus icaco `Horizontalis`	Horizontal Cocoplum	Y	See Plan	3' OA	15 gal	Full Structure
FOR	7	Forestiera segregata	Florida Privet	Y	See Plan	4' O.A, 3' SPR	25 gal	Full to Base
PSY	21	Psychotria liguistrifolia	Bahama Coffee	Y	See Plan	2' - 3' O.A	7 gal	Full to Base
ZAM	39	Zamia integrifolia	Coontie	Y	See Plan	2' OA	7 gal	Full Structure
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
SPA	52	Spartina patens	Saltmeadow Cordgrass	Y	36" o.c.	36" HT X 24" SPR	3 gal	Full Structure
MISCELLANEOUS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
SHL	809 sf	Florida Seashell Small	Florida Seashell Small	N	N/A			2" Min. Depth

GRAPHIC SCALE 0 8 16'

MDG0224

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THE CUT WALK AND JETTY
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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

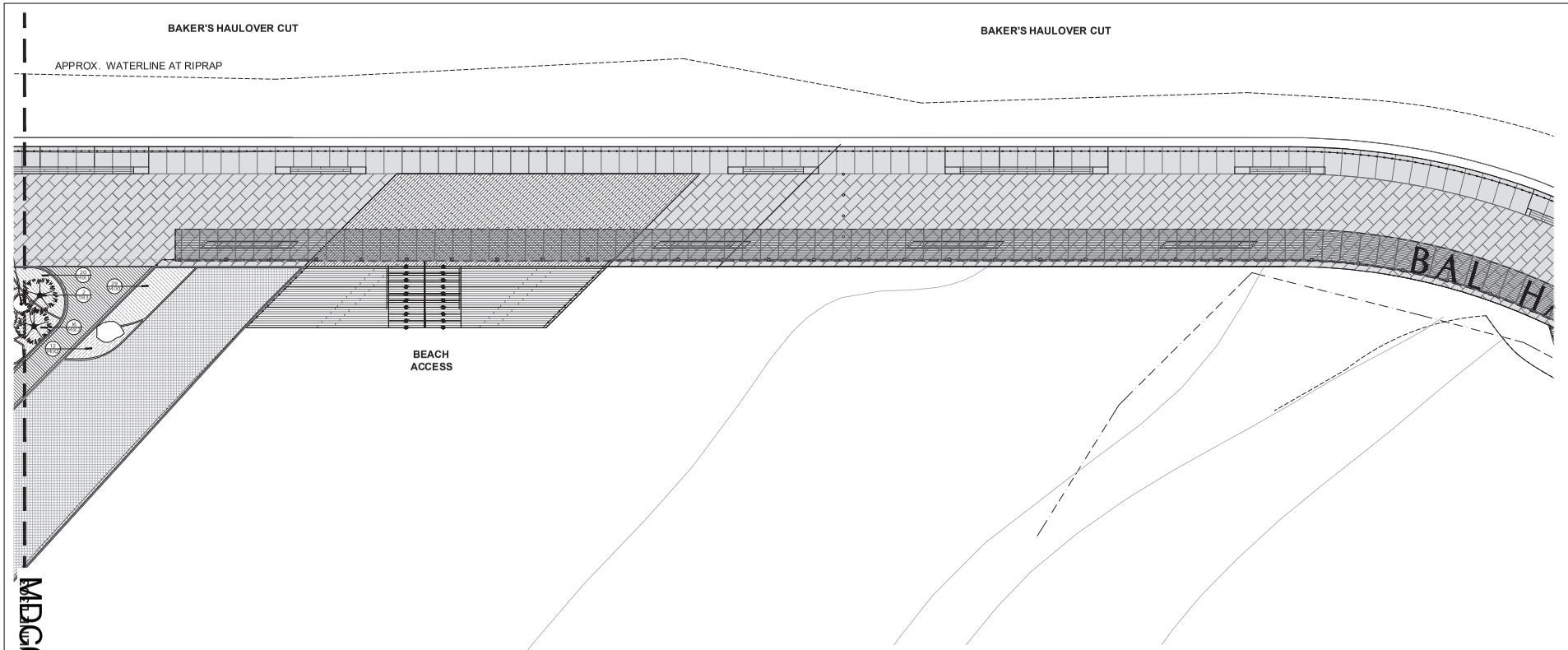
SCALE: 1/8" = 1'-0"

DRAWING NAME:
PLANTING PLAN

Ref. North

DRAWING NUMBER:
L303

NOT FOR CONSTRUCTION



MDG028

PLANT SCHEDULE BEACH GARDEN

EXISTING TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
E-CU	4	Coccoloba uvifera	Sea Grape	Y	N/A	N/A	Existing	
EXISTING PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
E-CN	8	Cocos nucifera	Coconut Palm	N	N/A	N/A	Existing	
RELOCATED PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
R-CN	3	Cocos nucifera	Coconut Palm	N	N/A	N/A	Transplanted	
R-AW	3	Pseudophoenix sargentii	Buccaneer Palm	Y	N/A	N/A	Transplanted	
EXISTING GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
E-VEG	4,269 sf	Existing Dune Vegetation	Existing Dune Vegetation	Y	N/A			No Gaps, Additional 1,026.9 SF underneath boardwalk no hatch shown for clarity
TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
CE	1	Conocarpus erectus	Green Buttonwood	Y	See Plan	22` - 24` OA, 8" CAL	FG	Specimen Selected by LA
CU1	5	Coccoloba uvifera	Sea Grape	Y	See Plan	14` - 16` OA, 4" - 6" CAL	FG	Multi Trunk Character Specimens, Matching and to be approved by LA
GC	3	Genipa clusifolia	Seven Year Apple	Y	See Plan	5` - 6` O.A	25 gal	Full Structure
JK	2	Jacquinia keyensis	Joewood	Y	See Plan	6` OA	25 gal	Full Structure
PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
PS	3	Pseudophoenix sargentii	Buccaneer Palm	Y	See Plan	6` - 8` O.A	30 gal	Full Structure
SP1	1	Sabal palmetto	Sabal Palm	Y	See Plan	16` CT	FG	Straight Stick Trunk, Regenerated
SP11	4	Sabal palmetto	Sabal Palm	Y	See Plan	30` CT	FG	Slick, S-Curved Trunk, Regenerated
SP12	3	Sabal palmetto	Sabal Palm	Y	See Plan	36` CT	FG	Slick, S-Curved Trunk, Regenerated
SP2	1	Sabal palmetto	Sabal Palm	Y	See Plan	24` CT	FG	Straight Stick Trunk, Regenerated
SP3	1	Sabal palmetto	Sabal Palm	Y	See Plan	28` CT	FG	Straight Stick Trunk, Regenerated
SP5	1	Sabal palmetto	Sabal Palm	Y	See Plan	32` CT	FG	Straight Stick Trunk, Regenerated
SP7	2	Sabal palmetto	Sabal Palm	Y	See Plan	18` CT	FG	Curved Stick Trunk, Regenerated
SP9	3	Sabal palmetto	Sabal Palm	Y	See Plan	24` CT	FG	Slick, S-Curved Trunk, Regenerated
TR3	3	Thrinax radiata	Florida Thatch Palm	Y	See Plan	6` CT	FG	Full Structure
TR4	3	Thrinax radiata	Florida Thatch Palm	Y	See Plan	8` CT	FG	Full Structure
TR5	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	10` CT	FG	Full Structure
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
ARG	6	Argusia gnaphalodes	Sea Lavender	Y	See Plan	3` OA	1 gal	Full Structure w/ Blooms
BAC	11	Bacharis dioica	Salt Bush	Y	See Plan	2` - 3` O.A	7 gal	Full to Base
CHR	136	Chrysobalanus icaco `Horizontalis`	Horizontal Cocoplum	Y	See Plan	3` OA	15 gal	Full Structure
LAN	6	Lantana involucrata	Button Sage	Y	See Plan	2` - 3` O.A	3 gal	Full Structure w/ Blooms
SCA	6	Scaevola plumieri	Inkberry	Y	See Plan	2` OA	1 gal	Full Structure
SER	5	Serenoa repens `Miami Select`	Silver Saw Palmetto	Y	See Plan	3` OA	50 gal	Full Structure
SOP	4	Sophora tomentosa truncata	Yellow Necklacepod	Y	See Plan	3` - 4` O.A	7 gal	Full Structure
SUR	2	Suriana maritima	Bay Cedar	Y	See Plan	3` OA	25 gal	Full Structure w/ Blooms
YUC	4	Yucca aloifolia	Spanish Bayonet	Y	See Plan	4` OA	7 gal	
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
UNI	1,535	Uniola paniculata	Sea Oats	Y	18" o.c.	1` OA	96 Cell Liner	
	~1,200 SF	Uniola paniculata	Sea Oats	Y	18" o.c.	1` OA	96 Cell Liner	Replaced as needed due to disturbance from construction of bridge structure
GROUND COVER MIXES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS
MIX1	64	Beach Garden Mix 1 Gradularia maritima Helianthus debilis	Beach Garden Mix 1 Beach Verbena Dune Sunflower	Y	24" o.c.	12" HT X 12" SPR	1 gal	Full Structure, 50% // 50% Mix
MIX2	76	Beach Garden Mix 2 Ipomoea pes-caprae brasiliensis Sesuvium portulacastrum	Beach Garden Mix 2 Railroad Vine Sea Purslane	Y	24" o.c.	12" HT X 12" SPR	1 gal	Full Structure, 50% // 50% Mix
MIX3	52	Beach Garden Mix 3 Gaillardia pulchella Helianthus debilis	Beach Garden Mix 3 Blanket Flower Dune Sunflower	Y	24" o.c.	12" HT X 12" SPR	1 gal	Full Structure, 50% // 50% Mix

NOTES:

1. Proposed Coconut Palms along cutwalk to be stabilized with a Platipus Permanent Anchoring Solution that utilizes stainless steel accessories.

2. Proposed specimen trees, as well as Sabal Palms and Florida Thatch Palms to be stabilized with a Platipus Permanent Anchoring Solution that utilizes stainless steel accessories.

GRAPHIC SCALE
0 8 16'

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

SCALE: 1/8" = 1'-0"

DRAWING NAME:
PLANTING PLAN

Ref North

DRAWING NUMBER:
L304

NOT FOR CONSTRUCTION

PLANT SCHEDULE ENTRY GARDEN

TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZE AT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
CS	2	Conocarpus erectus ' Sericeus '	Silver Buttonwood	Y	See Plan	12 ' OA, 2"-3" CAL	100 gal	Multi Trunk	10 X 6	Moderate	High	High	High	Full Sun	Low	Food, Cover, Attracts Butterflies, Larval Host Plant
EP	2	Eugenia foetida	Spanish Stopper	Y	See Plan	10 ' - 12 ' O.A	60 gal	Single Leader	12 - 20 X 8 - 15	Moderate	High	Moderate	High	Full Sun / Part Shade	Moderate / High	Food, Cover, Attracts Birds
MC	2	Myrica cerifera	Wax Myrtle	Y	See Plan	8 - 10 ' O.A	45 gal	Multi Trunk	15 X 8	Moderate	High	High	High	Full Sun / Part Sun / Part Shade	Low	Food, Cover, Attracts Birds, Larval Host Plant
MF	2	Myrcianthes fragrans	Simpson ' s Stopper	Y	See Plan	9 ' - 10 ' OA	100 gal	Multi Trunk	5 - 20 X 3 - 15	Slow / Moderate	Moderate / High	Moderate	High	Full Sun / Part Shade	Moderate	Food, Cover, Attracts Birds, Attracts Pollinators

PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZE AT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
TR2	1	Thrinax radiata	Florida Thatch Palm	Y	See Plan	4 ' CT	FG	Full Structure	20 X 6	Slow	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant
TR3	1	Thrinax radiata	Florida Thatch Palm	Y	See Plan	6 ' CT	FG	Full Structure	20 X 6	Slow	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant
TR5	1	Thrinax radiata	Florida Thatch Palm	Y	See Plan	10 ' CT	FG	Full Structure	20 X 6	Slow	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZE AT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
AEC	12	Aechmea chantinii ' DeLeon '	Chantinii ' DeLeon ' Bromeliad	N	See Plan	24" HT X 24" SPR	3 gal	Full Structure	1 - 1.5 X 1.5 - 2	Slow	Low	Low	High	Full Sun / Part Sun / Part Shade	Low	Cover
ALC	3	Alcantarea imperialis	Imperialis Bromeliad	N	See Plan	24" HT X 30" SPR	15 gal	Full Structure	4 X 4	Slow	Moderate	Moderate	High	Full Sun / Part Sun / Part Shade	Low	Cover
ALR	5	Alcantarea regina e	Reginae Bromeliad	N	See Plan	30" HT X 30" SPR	15 gal	Full Structure	2 - 2.5 X 3	Slow	Moderate	Moderate	High	Full Sun / Part Sun / Part Shade	Low	Cover
ARD	3	Ardisia escallonioides	Marlberry	Y	See Plan	6 ' - 8 ' O.A	2.5 gal	Standard	12 - 20 X 6 - 12	Moderate	Moderate	High	Moderate	Full Sun / Part Shade	Moderate	Food, Cover, Attracts Birds
AYB	10	Aechmea ' Yellow Burma '	Yellow Burmea Bromeliad	N	See Plan	12" HT X 12" SPR	7 gal	Full Structure	4.5 X 3	Slow	Low	Low	High	Full Sun / Part Sun / Part Shade	Low	Cover
CHR	107	Chrysobalanus icaco ' Horizontalis '	Horizontal Cocoplum	Y	See Plan	3 ' OA	15 gal	Full Structure	3 - 4 X 6	Fast	High	High	High	Full Sun / Part Shade	Low	Food, Cover, Attracts Birds
FOR	6	Forestiera segregata	Florida Privet	Y	See Plan	4 ' OA, 3 ' SPR	2.5 gal	Full to Base	10 - 5 X 10	Moderate	High	High	High	Full Sun	Low	Food, Cover, Attracts Birds and Other Wildlife
HEA	17	Heliotropium inplicatipennum	Scorpion ' s Tail	Y	See Plan	12" HT X 12" SPR	1 gal	Full Structure w/ Blooms	1 - 3 X 1 - 3	Fast	Moderate	Moderate	Moderate	Full Sun / Part Shade	Moderate	Nectar Source
PSY	19	Psychotria ligustrifolia	Bahama Coffee	Y	See Plan	2 ' - 3 ' O.A	7 gal	Full to Base	3 - 4 X 3 - 4	Moderate	Moderate	Low	Moderate	Part Shade	Moderate	Food, Cover, Attracts Birds and Insects
SER	3	Serenoa repens ' Miami Select '	Silver Saw Palmetto	Y	See Plan	3 ' OA	25 gal	Full Structure	6 X 6 - 20	Slow	High	High	High	Full Sun / Part Shade	Low	Food, Cover, Attracts Bees and Butterflies and Other Wildlife, Larval Host
YUC	2	Yucca aloifolia	Spanish Bayonet	Y	See Plan	4 ' OA	7 gal	Full Structure	5 - 10 X 3 - 6	Slow	High	Moderate	High	Part Sun / Part Shade	Moderate	Food, Cover, Attracts Butterflies and Other Wildlife, Larval Host
ZAM	84	Zamia integrifolia	Coontie	Y	See Plan	2 ' OA	7 gal	Full Structure	2 - 4 X 3 - 5	Slow	High	High	High	Full Sun / Part Shade	Moderate / Low	Food, Attracts Butterflies, Larval Host

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZE AT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
GLA	65	Gladularia maritima	Beach Verbena	Y	24" o.c.	12" HT X 18" SPR	1 gal	Full Structure	1 X 1 - 1.5	Fast	High	High	High	Full Sun	Low	Attracts Butterflies
HEL	23	Helianthus debilis	Dune Sunflower	Y	30" o.c.	12" HT X 12" SPR	1 gal	Full Structure w/ Blooms	1 - 2.5 X 2-8	Fast	High	High	High	Full Sun	Low	Cover, Attracts Butterflies
PEP	72	Peperomia obtusifolia	Baby Rubber Plant	Y	16" o.c.	12" HT X 12" SPR	1 gal	Full Structure	0.5 - 0.75 X 1.0 -1.5	Moderate	Low	Low	Low	Full Shade	High	Cover

PLANT SCHEDULE CUTWALK

EXISTING PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
E-CN	6	Cocos nucifera	Coconut Palm	N	N/A	N/A	N/A	Existing	40 - 60 X 20 - 25	Moderate	Moderate	High	Moderate	Full Sun	Low	Cover

RELOCATED PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
R-TR	7	Thrinax radiata	Florida Thatch Palm	Y	N/A		N/A	Existing	20 X 6	Slow	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant

TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
MC	3	Myrica cerifera	Wax Myrtle	Y	See Plan	8 - 10 ' OA	45 gal	Multi Trunk	15 X 8	Moderate	High	High	High	Full Sun / Part Sun / Part Shade	Low	Food, Cover, Attracts Birds, Larval Host Plant

PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
CD1	6	Cocos nucifera ' Green Malayan '	Coconut Palm	N	See Plan	16 ' CT	F.G	Straight Trunk	40 - 60 X 20 - 25	Moderate	Moderate	High	Moderate	Full Sun	Low	Cover
CD2	3	Cocos nucifera ' Green Malayan '	Coconut Palm	N	See Plan	20 ' CT	F.G	Straight Trunk	40 - 60 X 20 - 25	Moderate	Moderate	High	Moderate	Full Sun	Low	Cover
CD3	5	Cocos nucifera ' Green Malayan '	Coconut Palm	N	See Plan	24 ' CT	F.G	Straight Trunk	40 - 60 X 20 - 25	Moderate	Moderate	High	Moderate	Full Sun	Low	Cover
CD4	1	Cocos nucifera ' Green Malayan '	Coconut Palm	N	See Plan	28 ' CT	F.G	Straight Trunk	40 - 60 X 20 - 25	Moderate	Moderate	High	Moderate	Full Sun	Low	Cover
TR1	4	Thrinax radiata	Florida Thatch Palm	Y	See Plan	2 ' CT	F.G	Full Structure	20 X 6	Slow	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant
TR2	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	4 ' CT	F.G	Full Structure	20 X 6	Slow	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant
TR3	9	Thrinax radiata	Florida Thatch Palm	Y	See Plan	6 ' CT	F.G	Full Structure	20 X 6	Slow	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant
TR5	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	10 ' CT	F.G	Full Structure	20 X 6	Slow	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
ARD	7	Ardisia escallonioides	Marlberry	Y	See Plan	6 ' - 8 ' OA	25 gal	Standard	12 - 20 X 6 - 12	Moderate	Moderate	High	Moderate	Full Sun / Part Shade	Moderate	Food, Cover, Attracts Birds
CHR	65	Chrysobalanus icaco ' Horizontalis '	Horizontal Cocoplum	Y	See Plan	3 ' OA	15 gal	Full Structure	3 - 4 X 6	Fast	High	High	High	Full Sun / Part Shade	Low	Food, Cover, Attracts Birds
FOR	7	Forestiera segregata	Florida Privet	Y	See Plan	4 ' OA, 3 ' SPR	25 gal	Full to Base	10 - 5 X 10	Moderate	High	High	High	Full Sun	Low	Food, Cover, Attracts Birds and Other Wildlife
PSY	21	Psychotria ligustrifolia	Bahama Coffee	Y	See Plan	2 ' - 3 ' O.A	7 gal	Full to Base	3 - 4 X 3 - 4	Moderate	Moderate	Low	Moderate	Part Shade	Moderate	Food, Cover, Attracts Birds and Insects
ZAM	39	Zamia integrifolia	Coontie	Y	See Plan	2 ' OA	7 gal	Full Structure	2 - 4 X 3 - 5	Slow	High	High	High	Full Sun / Part Shade	Moderate / Low	Food, Attracts Butterflies, Larval Host

GRASSES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
SPA	52	Spartina patens	Saltmeadow Cordgrass	Y	36" o.c.	36" HT X 24 " SPR	1 gal	Full Structure	1 - 3 X 1 - 3	Slow	Moderate	High	High	Full Sun / Part Shade	Low	Cover

PLANT SCHEDULE BEACH GARDEN

EXISTING TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
E-CU	4	Coccoloba uvifera	Sea Grape	Y	N/A	N/A	Existing		25 - 30 X 20 - 30	Moderate	High	High	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds, Dune Stabilizer

EXISTING PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
E-CN	8	Cocos nucifera	Coconut Palm	N	N/A	N/A	Existing		50 - 60 X 15 - 25	Moderate	Moderate	High	Moderate	Full Sun	Low	Cover

RELOCATED PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
R-CN	3	Cocos nucifera	Coconut Palm	N	N/A	N/A	Transplanted		50 - 60 X 15 - 25	Moderate	Moderate	High	Moderate	Full Sun	Low	Cover
R-HV	3	Pseudophoenix sargentii	Buccaneer Palm	Y	N/A	N/A	Transplanted		10 - 25 X 8 - 10	Slow	High	High	High	Full Sun / Part Shade	Low	Food

EXISTING GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
E-VEG	4,269 sf	Existing Dune Vegetation	Existing Dune Vegetation	Y	N/A	N/A	N/A	No Gaps	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TREES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
CE	1	Conocarpus erectus	Green Buttonwood	Y	See Plan	22 ' - 24 ' O.A (6" CAL	FG	Specimen Selected by LA	30-45 X 20-30	Moderate	High	High	High	Full Sun	Low	Food, Cover
CU3	5	Coccoloba uvifera	Sea Grape	Y	See Plan	14 ' - 16 ' OA, 4" - 6 " CAL	FG	Multi Trunk Character Specimens, Matching and to be approved by LA	25 - 30 X 20 - 30	Moderate	High	High	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds, Dune Stabilizer
GC	3	Genipa clusifolia	Seven Year Apple	Y	See Plan	5 ' - 6 ' O.A	25 gal	Full Structure	20 X 15	Slow	High	High	High	Part Shade / Part Sun	Low	Food, Cover, Attracts Birds, Suited For Human Consumption
JK	2	Jacaranda koyamis	Jawa oak	Y	See Plan	6 ' OA	25 gal	Full Structure	4-10 X 4-10	Very Slow	Moderate	High	High	Full Sun / Part Shade	Moderate	Food, Cover

PALMS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
PS	3	Pseudophoenix sargentii	Buccaneer Palm	Y	See Plan	6 ' - 8 ' O.A	30 gal	Full Structure								
SP1	1	Sabal palmetto	Sabal Palm	Y	See Plan	16 ' CT	FG	Straight Stick Trunk, Regenerated	40 - 50 X 10 - 15	Slow	High	High	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife
SP11	4	Sabal palmetto	Sabal Palm	Y	See Plan	30 ' CT	FG	Stick, S-Curved Trunk, Regenerated	40 - 50 X 10 - 15	Slow	High	High	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife
SP12	3	Sabal palmetto	Sabal Palm	Y	See Plan	36 ' CT	FG	Stick, S-Curved Trunk, Regenerated	40 - 50 X 10 - 15	Slow	High	High	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife
SP2	1	Sabal palmetto	Sabal Palm	Y	See Plan	24 ' CT	FG	Straight Stick Trunk, Regenerated	40 - 50 X 10 - 15	Slow	High	High	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife
SP3	1	Sabal palmetto	Sabal Palm	Y	See Plan	28 ' CT	FG	Straight Stick Trunk, Regenerated	40 - 50 X 10 - 15	Slow	High	High	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife
SP5	1	Sabal palmetto	Sabal Palm	Y	See Plan	32 ' CT	FG	Straight Stick Trunk, Regenerated	40 - 50 X 10 - 15	Slow	High	High	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife
SP7	2	Sabal palmetto	Sabal Palm	Y	See Plan	18 ' CT	FG	Curved Stick Trunk, Regenerated	40 - 50 X 10 - 15	Slow	High	High	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife
SP9	3	Sabal palmetto	Sabal Palm	Y	See Plan	24 ' CT	FG	Stick, S-Curved Trunk, Regenerated	40 - 50 X 10 - 15	Slow	High	High	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife
TR3	3	Thrinax radiata	Florida Thatch Palm	Y	See Plan	6 ' CT	FG	Full Structure	20 X 6	Slow	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant
TR4	3	Thrinax radiata	Florida Thatch Palm	Y	See Plan	8 ' CT	FG	Full Structure	20 X 6	Slow	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant
TR5	2	Thrinax radiata	Florida Thatch Palm	Y	See Plan	10 ' CT	FG	Full Structure	20 X 6	Slow	High	High	Moderate	High	Full Sun / Part Shade / Part Sun	Low	Food, Cover, Attracts Birds and Other Wildlife, Larval Host Plant

SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
ARG	6	Argusia gnaphalodes	Sea Lavender	Y	See Plan	3 ' OA	3 gal	Full Structure w/ Blooms	3 - 5 X 6 - 20	Slow	High	High	High	Full Sun	Low	Cover, Dune Stabilizer
BAC	5	Bacopa monnieri	Saltbrun	Y	See Plan	2 ' - 3 ' OA	1 gal	Full to Base	7 - 15 X 5 - 7	Fast	High	High	High	Full Sun / Part Shade	Moderate	Food, Attracts Bees
CHR	139	Chrysobalanus icaco ' Horizontalis '	Horizontal Cocoplum	Y	See Plan	3 ' OA	15 gal	Full Structure	3 - 4 X 6	Fast	High	High	High	Full Sun / Part Shade	Low	Food, Cover, Attracts Birds
LAN	6	Lantana involucrata	Button Sage	Y	See Plan	2 ' - 3 ' OA	3 gal	Full Structure w/ Blooms	4 - 6 X 4 - 6	Fast	High	High	High	Full Sun	Moderate	Food, Cover, Attracts Birds, Bees and Butterflies
SCA	6	Scaevola plumieri	Inkberry	Y	See Plan	2' OA	1 gal	Full Structure	4 - 6 X 4 - 6	Slow	High	High	High	Full Sun	Low	Food, Cover
SER	5	Serenoa repens ' Miami Select '	Silver Saw Palmetto	Y	See Plan	3 ' OA	50 gal	Full Structure	6 X 6 - 20	Slow	High	High	High	Full Sun / Part Shade	Low	Food, Cover, Attracts Bees and Butterflies and Other Wildlife, Larval Host
SOP	4	Sophora tomentosa truncata	Yellow Head Leadtail	Y	See Plan	3 ' - 4 ' O.A	7 gal	Full Structure	8 - 10 X 8 - 10	Moderate	High	High	Moderate	Full Sun	Moderate	Food, Cover, Nectar Source for Hummingbirds and Butterflies, Attracts Pollinators
SUR	2	Suriana maritima	Bay Cedar	Y	See Plan	3 ' OA	25 gal	Full Structure w/ Blooms	10 X 10	Slow	High	High	High	Full Sun	Low	Food, Cover, Attracts Butterflies, Larval Host
YUC	4	Yucca aloifolia	Spanish Bayonet	Y	See Plan	4 ' OA	7 gal		5 - 10 X 3 - 6	Slow	High	Moderate		Part Sun / Part Shade	Moderate	Food , Cover, Attracts Butterflies and Other Wildlife, Larval Host

GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
UNI	1,535	Uniola paniculata	Sea Oats	Y	18" o.c.	1' O.A	.96 Cell Liner		5 - 8 X 1 - 2	Moderate	High	High	High	Full Sun	Low	Cover, Dune Stabilizer
	1,200 S.F.	Uniola paniculata	Sea Oats	Y	18" o.c.	1' O.A	.96 Cell Liner	Replaced as needed due to disturbance from construction of bridge structure	5 - 8 X 1 - 2	Moderate	High	High	High	Full Sun	Low	Cover, Dune Stabilizer

GROUND COVER MIXES	QTY	BOTANICAL NAME	COMMON NAME	NATIVE	SPACING	SIZE	CONT	SPECIFICATIONS	SIZEAT MATURITY (FT) H X W	GROWTH RATE	DROUGHT TOLERANCE	SALT TOLERANCE	WIND RESISTANCE	LIGHT REQUIREMENTS	NUTRITION REQUIREMENTS	ECOLOGICAL IMPORTANCE
MIX1	64	Beach Garden Mix 1 Gladularia maritima Helianthus debilis	Beach Garden Mix 1 Beach Verbena Dune Sunflower	Y Y Y	24" o.c. 24" o.c.	12" HT X 12" SPR 12" HT X 12" SPR	1 gal 1 gal	50% // 50% Mix Full Structure Full Structure	1 X 1 - 1.5 1 - 2.5 X 2-8	Fast Fast	High High	High High	High High	Full Sun Full Sun	Low Low	Attracts Butterflies Cover, Attracts Butterflies
MIX2	76	Beach Garden Mix 2 Ipomoea pes-caprae brasiliensis Sesuvium portulacastrum	Beach Garden Mix 2 Railroad Vine Sea Purslane	Y Y Y	24" o.c. 24" o.c.	12" HT X 12" SPR 12" HT X 12" SPR	1 gal 1 gal	Full Structure, 50% // 50% Mix Full Structure, 50% // 50% Mix	0.5 X to 6 0 .5 - 5 X 1	Fast Moderate	High High	High High	High High	Full Sun Full Sun	Low Low	Cover, Dune Stabilizer Attracts Butterflies
MIX3	52	Beach Garden Mix 3 Gaillardia pulchella Helianthus debilis	Beach Garden Mix 3 Blanket Flower Dune Sunflower	Y Y Y	24" o.c. 24" o.c.	12" HT X 12" SPR 12" HT X 12" SPR	1 gal 1 gal	Full Structure, 50% // 50% Mix Full Structure, 50% // 50% Mix	.75 - 1.5 X .5 - 2.0 1 - 2.5 X 2-8	Moderate Fast	High High	High High	High High	Full Sun Full Sun	Low Low	Food, Attracts Birds, Bees and Butterflies Cover, Attracts Butterflies

MDC029

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NOT FOR CONSTRUCTION

BAL HARBOUR

THE CUT WALKAND JETTY
BAKERS HAULOVER CUT

1930 S COLLINS AVENUE, BAL HARBOUR, FL 33154

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

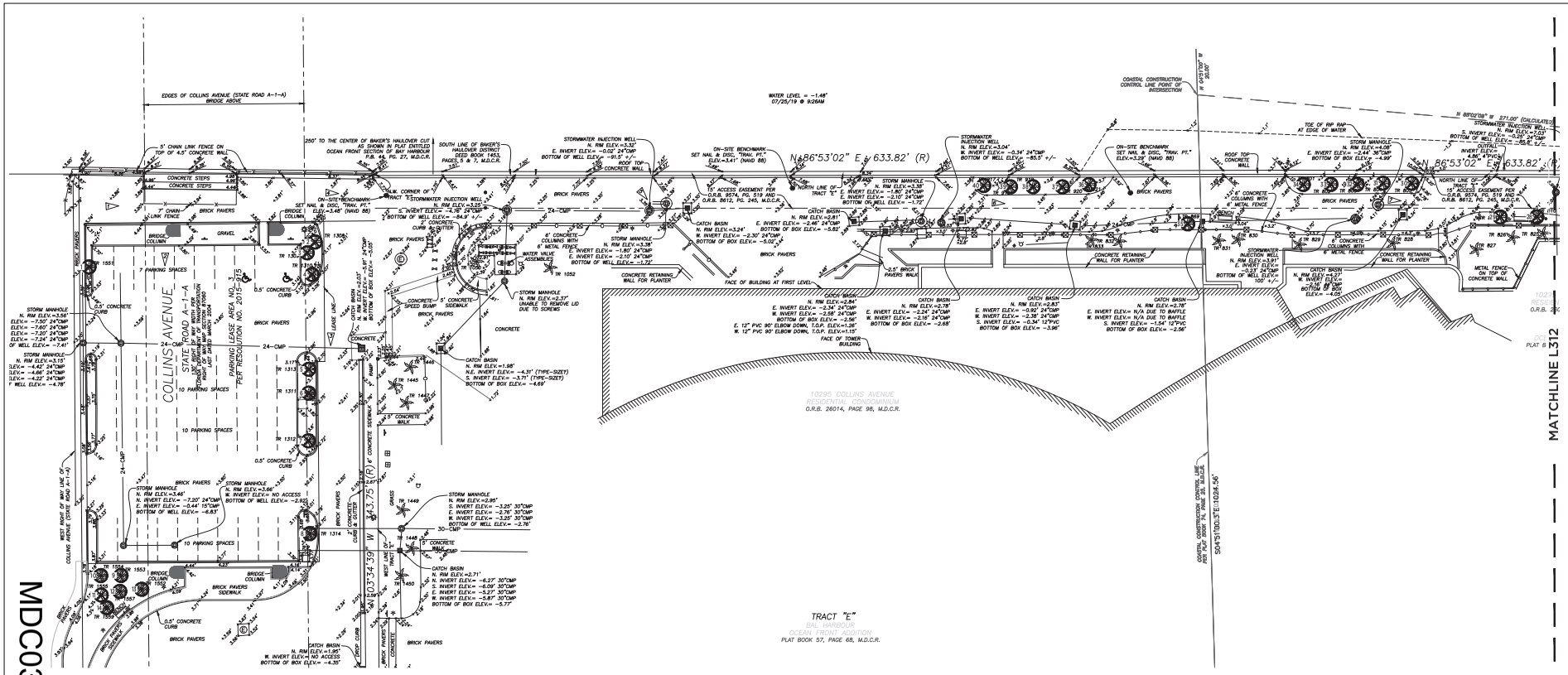
DATE: 10/26/2022

REVISIONS:

SCALE: NTS

DRAWING NAME:
EXPANDED PLANT SCHEDULES & INFO CHART

DRAWING NUMBER:
L305


EDGES OF COLLINS AVENUE (STATE ROAD A-1-A) BRIDGE ABOVE
COLLINS AVENUE
STATE ROAD A-1-A
LEASE LINE
PARKING LEASE AREA NO. 3 PER RESOLUTION NO. 2015-
7 PARKING SPACES
10 PARKING SPACES
0.5' CONCRETE CURB
BRICK PAVERS
24"CMP
30"CMP
5' CHAIN LINK FENCE ON TOP OF 4.5' CONCRETE WALL
CONCRETE STEPS
7' CHAIN LINK FENCE
BRIDGE COLUMN
GRAVEL
250' TO THE CENTER OF BAKER'S HAULOVER CUT AS SHOWN IN PLAT ENTITLED OCEAN FRONT SECTION OF BAY HARBOUR P.B. 48, PG. 27, M.D.C.R.
ON-SITE BENCHMARK "TRAV. PT." ELEV.=3.48' (NAVD 88)
SET NAIL & DISC, "TRAV. PT."
SOUTH LINE OF BAKER'S HAULOVER DISTRICT DEED BOOK 1453, PAGES 5 & 7, M.D.C.R.
STORMWATER INJECTION WELL
N. RIM ELEV.=3.25'
E. INVERT ELEV.= -5.02' 24"CMP
BOTTOM OF WELL ELEV.= -19.5' +/-
ROOF TOP CONCRETE WALL
N.W. CORNER OF TRACT "E"
S. INVERT ELEV.= -4.76' 24"CMP
BOTTOM OF WELL ELEV.= -84.9' +/-
2' CONCRETE CURB & GUTTER
6' CONCRETE COLLUMNS WITH 6' METAL FENCE
WATER VALVE ASSEMBLIES
TR 1052
TR 1306
TR 1310
TR 1311
TR 1312
TR 1313
TR 1314
TR 1315
TR 1316
TR 1317
TR 1318
TR 1319
TR 1320
TR 1321
TR 1322
TR 1323
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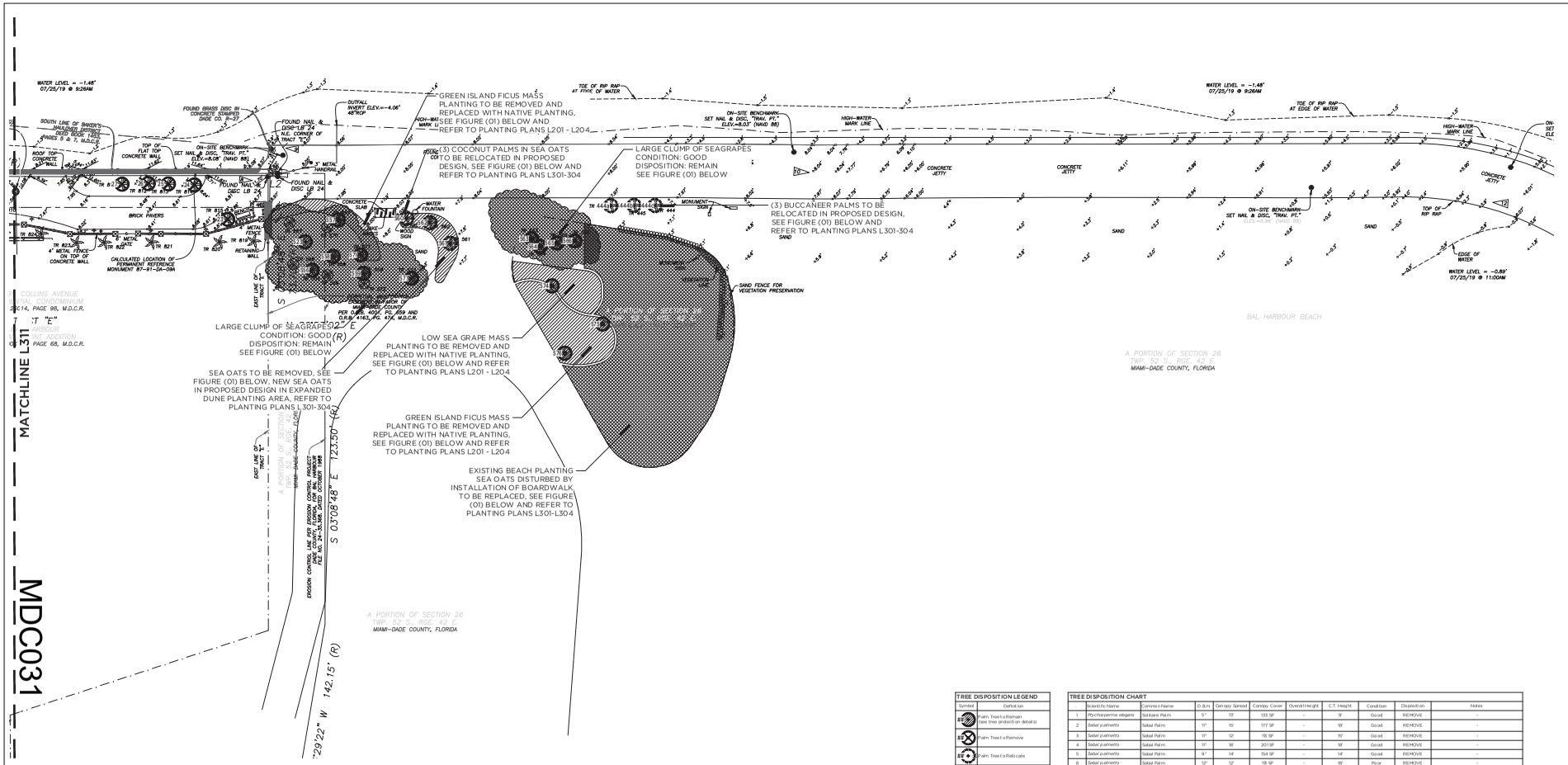
TR 1325
TR 1326
TR 1327
TR 1328
TR 1329
TR



EXISTING DUNE PLANTING, SEA OATS DISTURBED BY INSTALLATION OF BOARDWALK TO BE REPLACED, REFER TO PLANTING PLANS L301-L304

GREEN ISLAND FICUS MASS PLANTING TO BE REMOVED AND REPLACED WITH NATIVE PLANTING, REFER TO PLANTING PLANS L201 - L204

LOW SEA GRAPE MASS PLANTING TO BE REMOVED AND REPLACED WITH NATIVE PLANTING, REFER TO PLANTING PLANS L201 - L204

LARGE CLUMP OF SEAGRAPES CONDITION: GOOD DISPOSITION: REMAIN

GREEN ISLAND FICUS MASS PLANTING TO BE REMOVED AND REPLACED WITH NATIVE PLANTING, REFER TO PLANTING PLANS L201 - L204

SEA OATS TO BE REMOVED, NEW SEA OATS IN PROPOSED DESIGN IN EXPANDED DUNE PLANTING AREA, REFER TO PLANTING PLANS L301-304

(3) COCONUT PALMS IN SEA OATS TO BE RELOCATED IN PROPOSED DESIGN, REFER TO PLANTING PLANS L301-304

(3) BUCCANEER PALMS TO BE RELOCATED IN PROPOSED DESIGN, REFER TO PLANTING PLANS L301-304

FIGURE (01)

TREE DISPOSITION LEGEND

Symbol	Definition
	Palm Tree to Remain (see tree protection detail a)
	Palm Tree to Remove
	Palm Tree to Relocate
	Tree to Remain (see tree protection detail a)
	Tree to Remove
	Tree to Relocate

TREE REPLACEMENT LIST

Category Replacement Tree	Portion of Impact Area that each replacement tree compensates for in square feet	Quantity Proposed	Category Replacement Tree Total
Shade Tree 1	3.00	1	300 SF
Shade Tree 2	3.00	1	300 SF
Palm Tree 1	3.00	17	5,100 SF
Palm Tree 2	100	18	1800 SF
Small Tree	2.00	5	1000 SF
TOTAL SF CANOPY CREDIT PROVIDED			8,700 SF

Proposed Number of Trees	Minimum Number of Species	Number of Species Proposed as Replacement	Replacement Species List
44	4	6	*Cocoslide uvifera*, Seagrape *Cocos nucifera*, Coconut Palm *Conocarpus erectus*, Green Buttonwood *Conocarpus erectus 'Sericeus'*, Silver Buttonwood *Sabal palmetto*, Sabal Palm

TOTAL REMAINING CANOPY CREDIT REQUIRED *	2,199 SF

* The Department shall charge and collect application and permit fees and trust fund contributions at the rates established by separate administrative order which shall not become effective until approved by the Board of County Commissioners, as stated in the Miami-Dade County Code of Ordinances Chapter 24-49.6. Oh-site plant trees or sits equivalent to the remaining canopy credit required.

TREE DISPOSITION CHART

	Scientific Name	Common Name	D.B.H.	Canopy Spread	Canopy Cover	Overall Height	C.T. Height	Condition	Disposition	Notes
1	*Ptychosperma elegans*	Solitaire Palm	5"	13'	133 SF	-	9'	Good	REMOVE	-
2	*Sabal palmetto*	Sabal Palm	11"	15'	177 SF	-	18'	Good	REMOVE	-
3	*Sabal palmetto*	Sabal Palm	11"	12'	113 SF	-	15'	Good	REMOVE	-
4	*Sabal palmetto*	Sabal Palm	11"	16'	201 SF	-	18'	Good	REMOVE	-
5	*Sabal palmetto*	Sabal Palm	9"	14'	154 SF	-	14'	Good	REMOVE	-
6	*Sabal palmetto*	Sabal Palm	12"	12'	113 SF	-	18'	Poor	REMOVE	-
7	*Sabal palmetto*	Sabal Palm	11"	16'	201 SF	-	18'	Good	REMOVE	-
8	*Sabal palmetto*	Sabal Palm	11"	14'	154 SF	-	15'	Good	REMAIN	-
9	*Cocos nucifera*	Coconut Palm	8"	26'	531 SF	-	22'	Moderate	REMAIN	-
10	*Cocos nucifera*	Coconut Palm	8"	26'	531 SF	-	22'	Moderate	REMAIN	-
11	*Cocos nucifera*	Coconut Palm	11"	30'	707 SF	-	34'	Moderate	REMAIN	-
12	*Cocos nucifera*	Coconut Palm	7"	20'	314 SF	-	1'	Moderate	REMOVE	Per Arborist's Recommendation
13	*Cocos nucifera*	Coconut Palm	9"	18'	25.45 F	-	28'	Moderate	REMAIN	-
14	*Coccoloba uvifera*	Sea Grape	52"	45'	1590 S.T.	45'	-	Moderate	REMAIN	-
23	*Cocos nucifera*	Coconut Palm	6"	24'	452 S F	-	13'	Good	REMOVE	-
24	*Cocos nucifera*	Coconut Palm	7"	22'	380 SF	-	15'	Moderate	REMOVE	-
25	*Cocos nucifera*	Coconut Palm	8"	24'	452 S F	-	15'	Moderate	REMOVE	-
26	*Cocos nucifera*	Coconut Palm	8"	24'	452 S F	-	22'	Moderate	REMOVE	-
27	*Cocos nucifera*	Coconut Palm	6"	26'	531 SF	-	20'	Moderate	REMOVE	-
28	*Cocos nucifera*	Coconut Palm	10"	26'	531 SF	-	20'	Moderate	REMOVE	-
29	*Cocos nucifera*	Coconut Palm	8"	26'	531 SF	-	20'	Moderate	REMOVE	-
30	*Cocos nucifera*	Coconut Palm	8"	24'	452 S F	-	16'	Moderate	REMOVE	-
31	*Cocos nucifera*	Coconut Palm	8"	26'	531 SF	-	22'	Moderate	REMOVE	-
32	*Cocos nucifera*	Coconut Palm	10"	24'	452 S F	-	15'	Moderate	REMOVE	-
33	*Cocos nucifera*	Coconut Palm	8"	26'	531 SF	-	18'	Moderate	REMOVE	-
34	*Cocos nucifera*	Coconut Palm	7"	21'	415 SF	-	15'	Moderate	REMOVE	-
35	*Cocos nucifera*	Coconut Palm	10"	34'	907 SF	-	16'	Moderate	REMOVE	-
36	*Cocos nucifera*	Coconut Palm	7"	26'	531 SF	-	18'	Moderate	REMOVE	-
37	*Cocos nucifera*	Coconut Palm	7"	26'	531 SF	-	20'	Moderate	REMOVE	-
38	*Cocos nucifera*	Coconut Palm	10"	34'	907 SF	-	28'	Moderate	REMOVE	-
39	*Cocos nucifera*	Coconut Palm	11"	30'	707 S F	-	27'	Moderate	REMOVE	-
40	*Cocos nucifera*	Coconut Palm	8"	26'	531 SF	-	28'	Moderate	REMOVE	-
44-1a	*Pereskia horrix sargenti*	Buccaneer Palm	-	6'	28 SF	-	2'	Moderate	RELOCATE	See Tree Plan on Sheet L303
44-1b	*Pereskia horrix sargenti*	Buccaneer Palm	-	9'	20 SF	-	3'	Moderate	RELOCATE	See Tree Plan on Sheet L303
44-1c	*Pereskia horrix sargenti*	Buccaneer Palm	-	9'	20 SF	-	3'	Moderate	RELOCATE	See Tree Plan on Sheet L303
52-1	*Cocos nucifera*	Coconut Palm	8"	22'	380 SF	-	3.5'	Moderate	REMAIN	-
55-6	*Cocos nucifera*	Coconut Palm	9"	21'	415 SF	-	4.5'	Moderate	REMAIN	-
55-7	*Cocos nucifera*	Coconut Palm	9"	34'	907 SF	-	2.5'	Moderate	REMAIN	-
55-8	*Cocos nucifera*	Coconut Palm	8"	21'	415 SF	-	22'	Moderate	REMAIN	-
55-9	*Cocos nucifera*	Coconut Palm	10"	3.2'	804 SF	-	10'	Moderate	REMAIN	-
56-0	*Cocos nucifera*	Coconut Palm	8"	30'	707 S F	-	28'	Moderate	RELOCATE	See Tree Plan on Sheet L303
56-1	*Cocos nucifera*	Coconut Palm	9"	34'	907 SF	-	28'	Moderate	RELOCATE	See Tree Plan on Sheet L303
5-62	*Cocos nucifera*	Coconut Palm	7"	26'	531 SF	-	18'	Moderate	RELOCATE	See Tree Plan on Sheet L303
5-63	*Coccoloba uvifera*	Sea Grape	22"	20'	314 SF	18'	-	Good	REMAIN	-
56-4	*Coccoloba uvifera*	Sea Grape	17"	18'	25.45 F	2.5'	-	Good	REMAIN	-
5-65	*Coccoloba uvifera*	Sea Grape	19"	18'	25.45 F	2.5'	-	Moderate	REMAIN	-
56-6	*Coccoloba uvifera*	Sea Grape	17"	22'	380 SF	27'	-	Moderate	REMAIN	-
57-1	*Cocos nucifera*	Coconut Palm	8"	26'	531 SF	-	26'	Moderate	REMAIN	-
57-3	*Cocos nucifera*	Coconut Palm	7"	22'	380 SF	-	30'	Moderate	REMAIN	-
57-4	*Cocos nucifera*	Coconut Palm	9"	30'	707 S F	-	30'	Moderate	REMAIN	-
57-5	*Cocos nucifera*	Coconut Palm	9"	36'	1,017 S F	-	30'	Moderate	REMAIN	-
57-6	*Cocos nucifera*	Coconut Palm	10"	3.8'	1,134 S F	-	30'	Moderate	REMAIN	-
		TOTAL CANOPY COVER REMOVED		10,999 SF	Refer to Tree Replacement List on this Sheet					

NOTES:

1. Landscape removal contractor shall verify all notes on site with landscape architect prior to work.
2. All ground covers and understory shrubs to be removed by hand. Landscape Architect to walk site with contractor prior to start of removal work.
3. Any tree pruning shall be conducted by a certified arborist.

GRAPHIC SCALE 0 16' 32'

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10.02.020

REVISIONS:

SCALE: 1/16" = 1'-0"

DRAWING NAME:
TREE DISPOSITION AND VEGETATION PROTECTION / REMOVAL PLAN

Ref. North

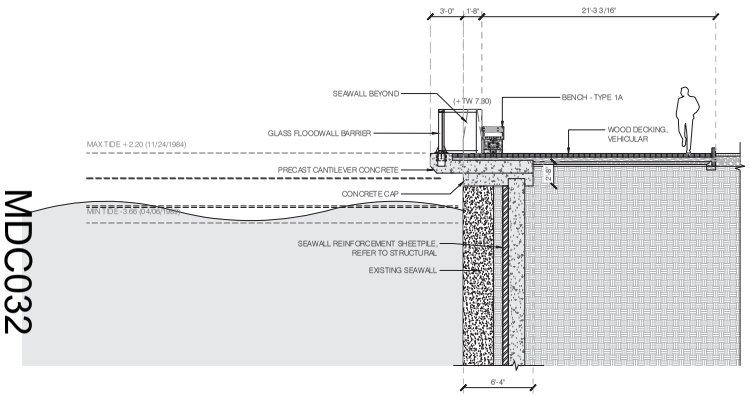
DRAWING NUMBER:
L312

GENERAL NOTE:

1. REFER TO STRUCTURAL SERIES FOR STRUCTURAL DETAILING.

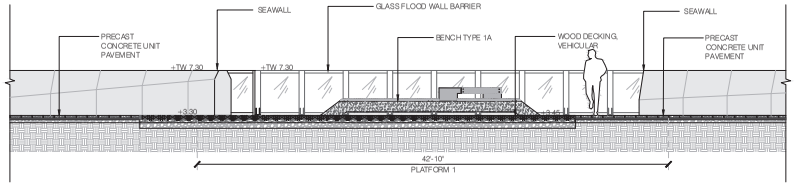
2. ALL SITE SECTIONS FOR CLARITY OF VERTICAL AND HORIZONTAL ADJACENCIES.

MDC032



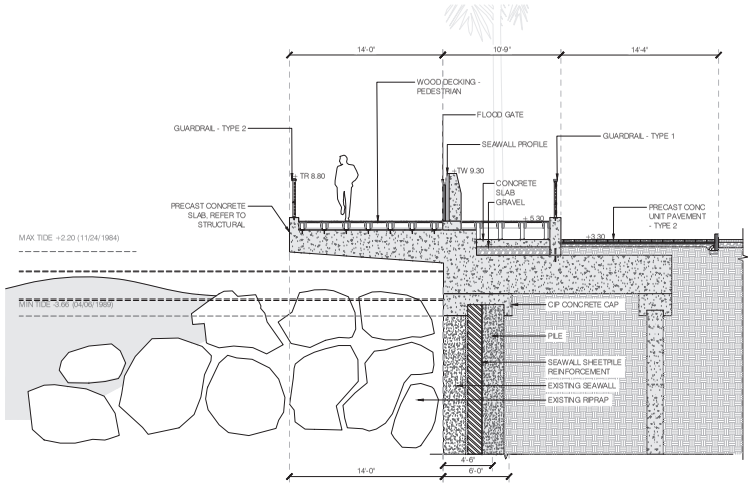
1 PLATFORM 1 - SECTION
1/4" = 1'-0"

SECTION



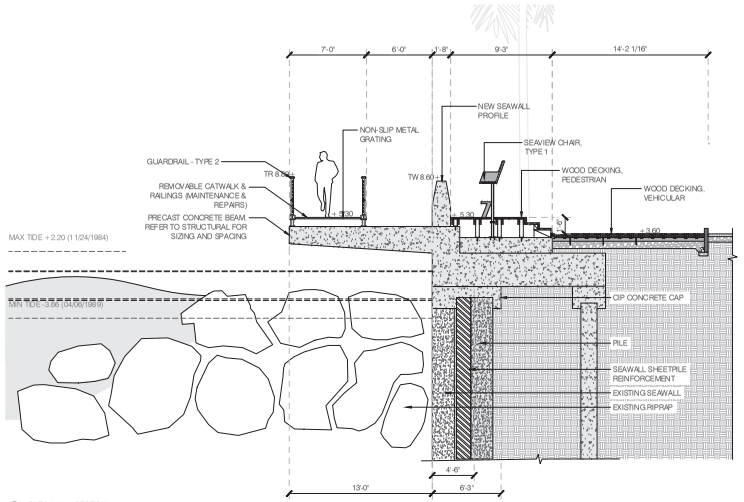
2 PLATFORM 1 - ELEVATION
1/4" = 1'-0"

ELEVATION



3 PLATFORM 2 - SECTION
1/4" = 1'-0"

SECTION



4 CATWALK 1 - SECTION
1/4" = 1'-0"

SECTION

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 12/02/2022

REVISIONS

SCALE: AS SHOWN

DRAWING NAME:
SITE SECTIONS AND ELEVATIONS

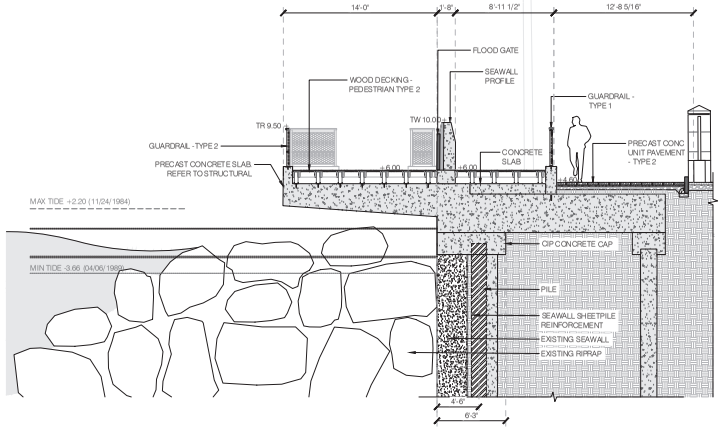
DRAWING NUMBER:
L401

NOT FOR CONSTRUCTION

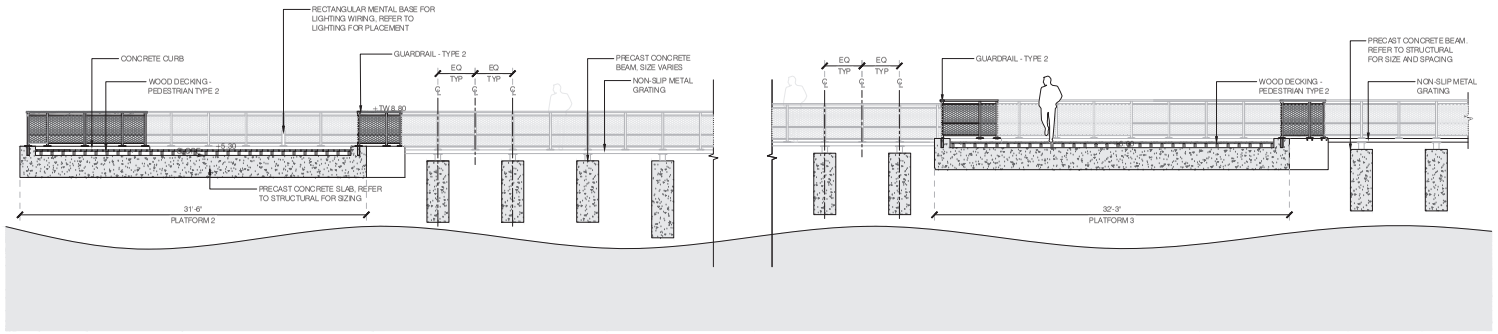
GENERAL NOTE:

1. REFER TO STRUCTURAL SERIES FOR STRUCTURAL DETAILING.

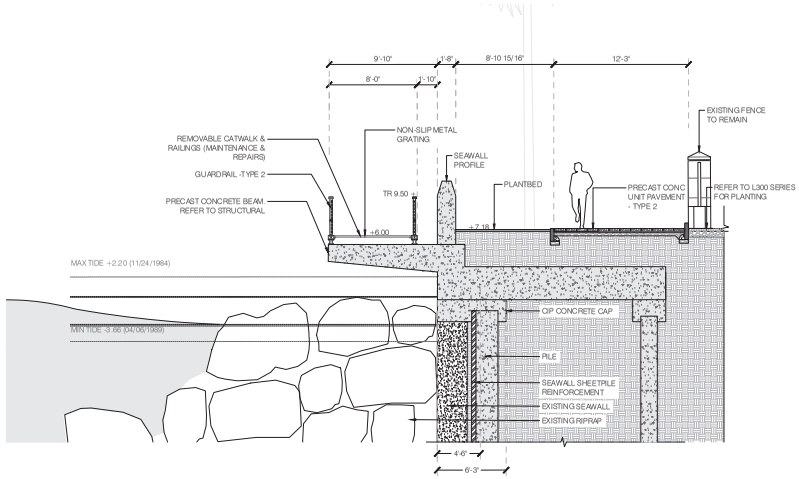
2. ALL SITE SECTIONS FOR CLARITY OF VERTICAL AND HORIZONTAL ADJACENCIES.



1 PLATFORM 3 - SECTION
1/4" = 1'-0"



2 PLATFORM 2 & 3 - SECTION
1/4" = 1'-0"



3 CATWALK 2 - SECTION
1/4" = 1'-0"

MDC033

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 12/02/2022

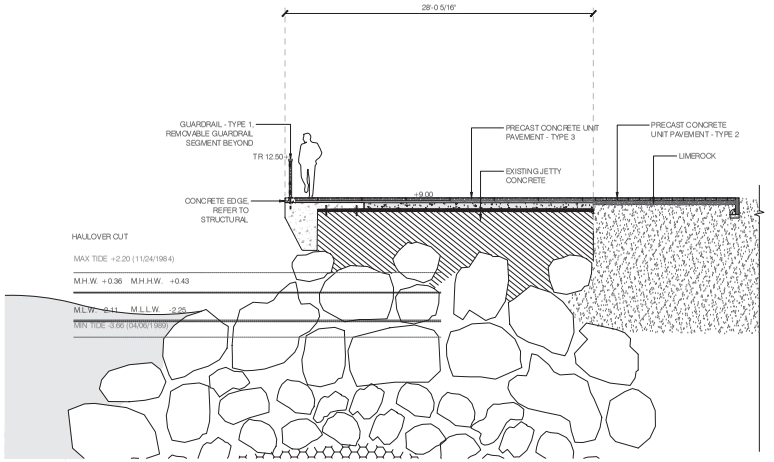
REVISIONS

SCALE: AS SHOWN

DRAWING NAME:
SITE SECTIONS AND ELEVATIONS

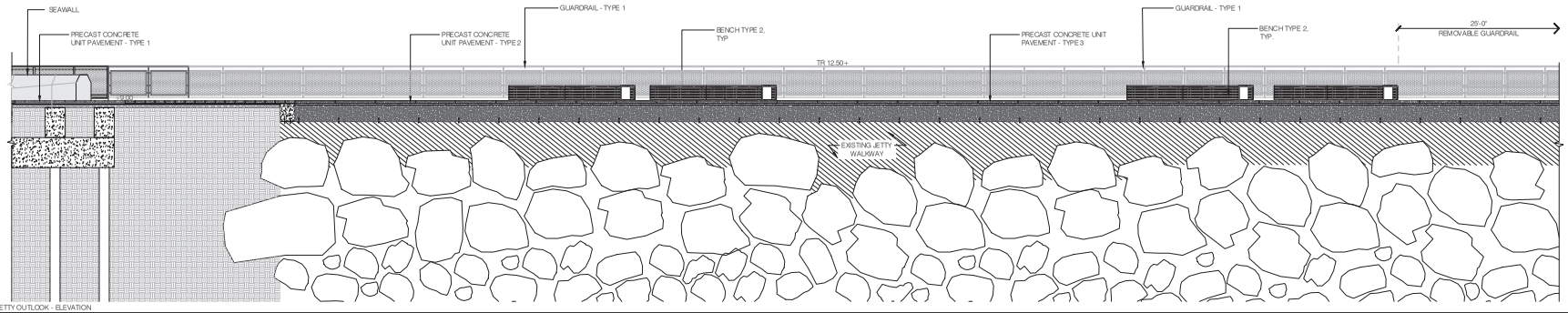
DRAWING NUMBER:
L402

NOT FOR CONSTRUCTION



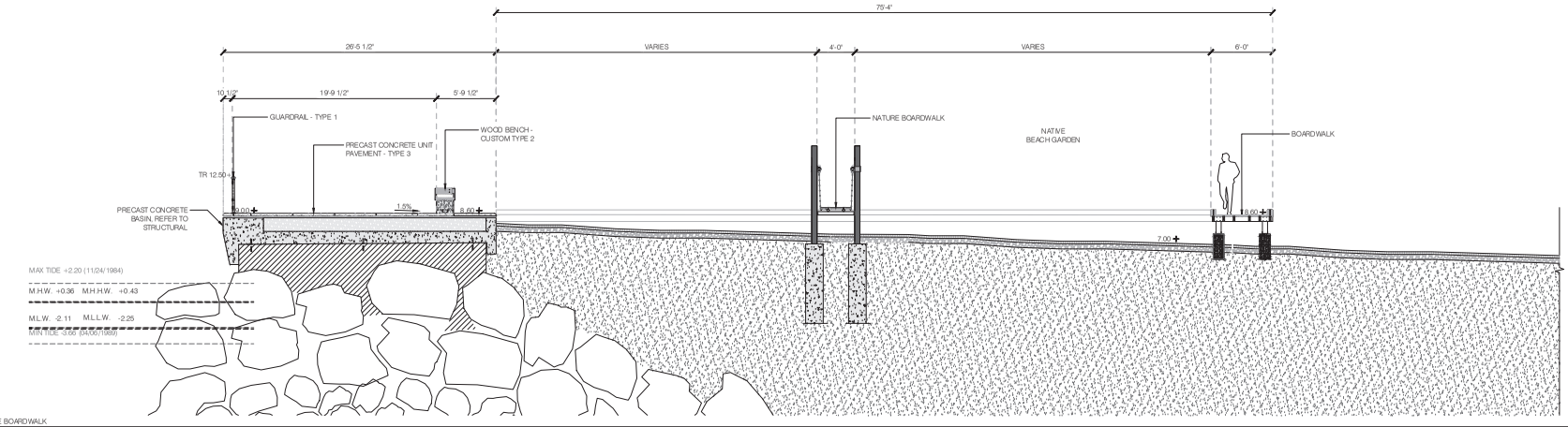
1 JETTY OVERLOOK - SECTION
1/4" = 1'-0"

SECTION



2 JETTY OUTLOOK - ELEVATION
1/4" = 1'-0"

ELEVATION



3 NATURE BOARDWALK
1/4" = 1'-0"

VIEW

MDC034

GENERAL NOTE:

1. REFER TO STRUCTURAL SERIES FOR STRUCTURAL DETAILING.

2. ALL SITE SECTIONS FOR CLARITY OF VERTICAL AND HORIZONTAL ADJACENCIES.

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/05/2022

REVISIONS

SCALE AS SHOWN

DRAWING NAME:
SITE SECTIONS AND ELEVATIONS

DRAWING NUMBER:
L403

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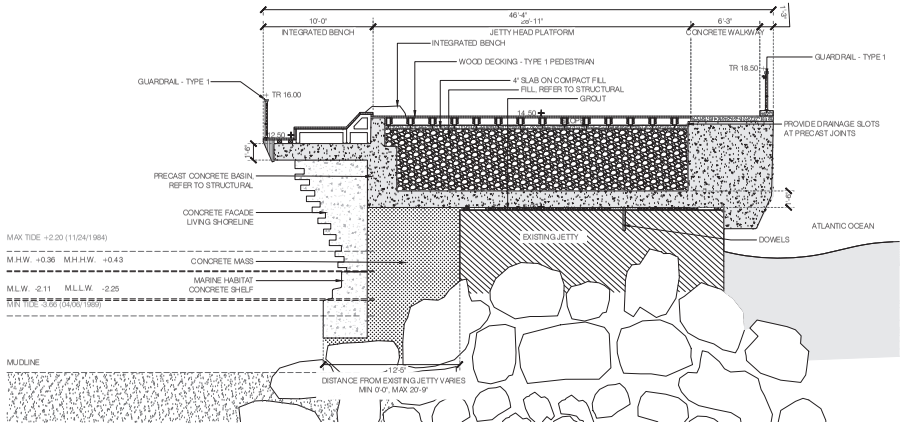
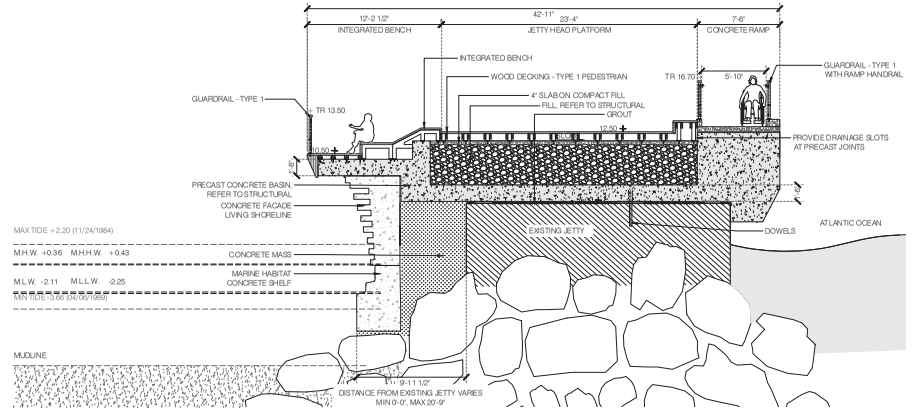


1 SECTION 1 - JETTY HEAD 1
1/4" = 1'-0"

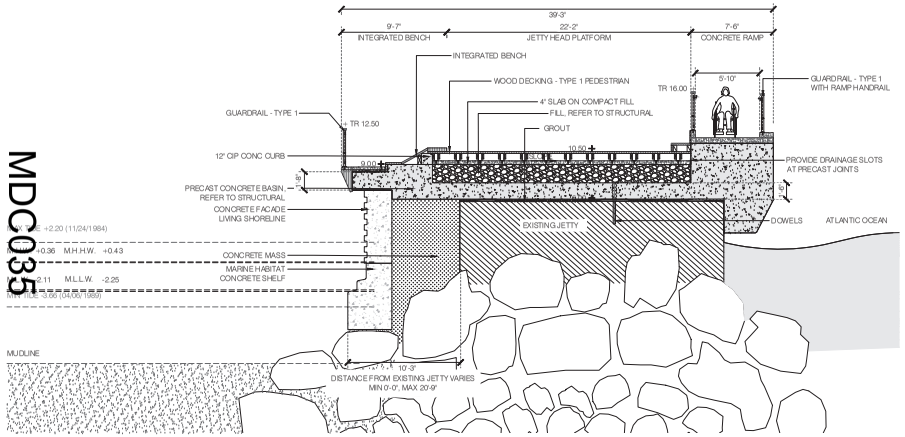
SECTION



2 SECTION 2 - JETTY HEAD 2
1/4" = 1'-0"

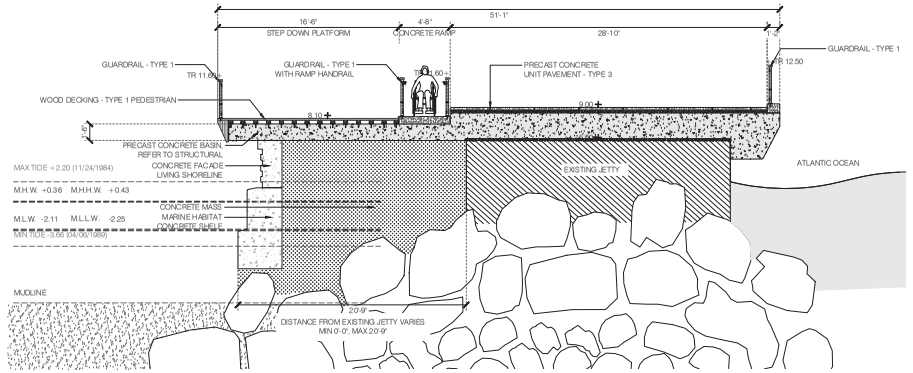
SECTION

MDC035



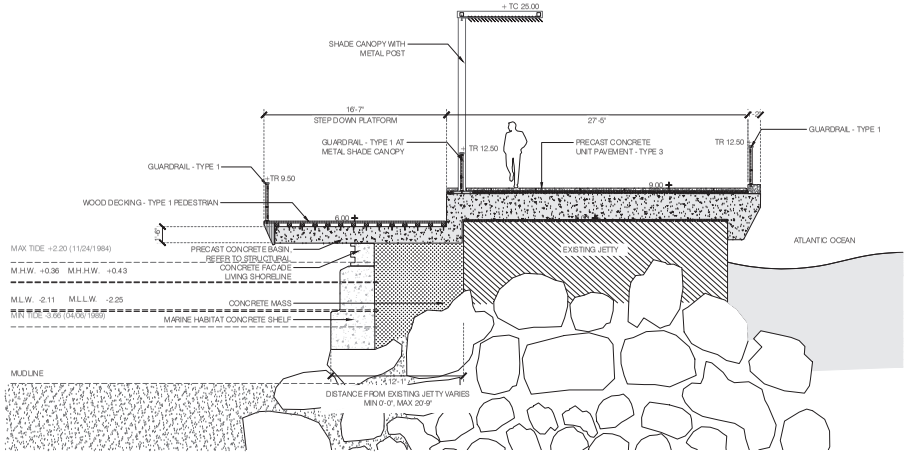
3 SECTION 3 - JETTY HEAD 3
1/4" = 1'-0"

SECTION



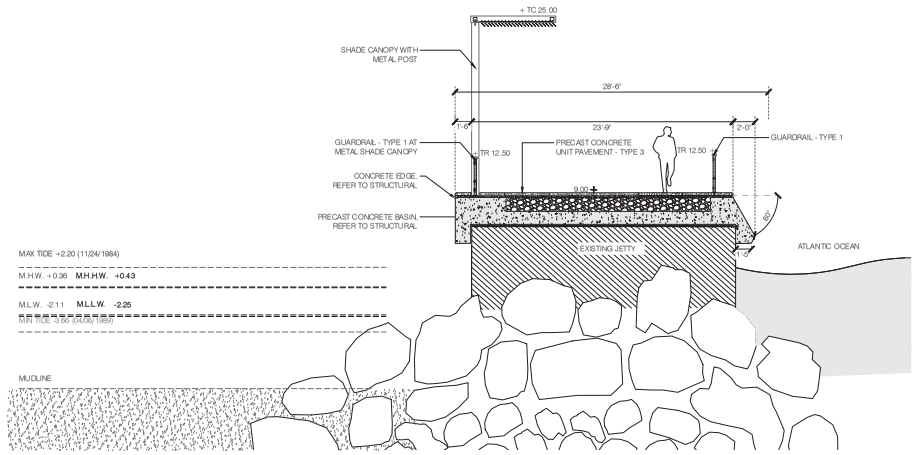
4 SECTION 4 - JETTY HEAD 4
1/4" = 1'-0"

SECTION



5 SECTION 5 - JETTY HEAD 5
1/4" = 1'-0"

SECTION



6 SECTION 6 - JETTY HEAD 6
1/4" = 1'-0"

SECTION

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 12/02/2022

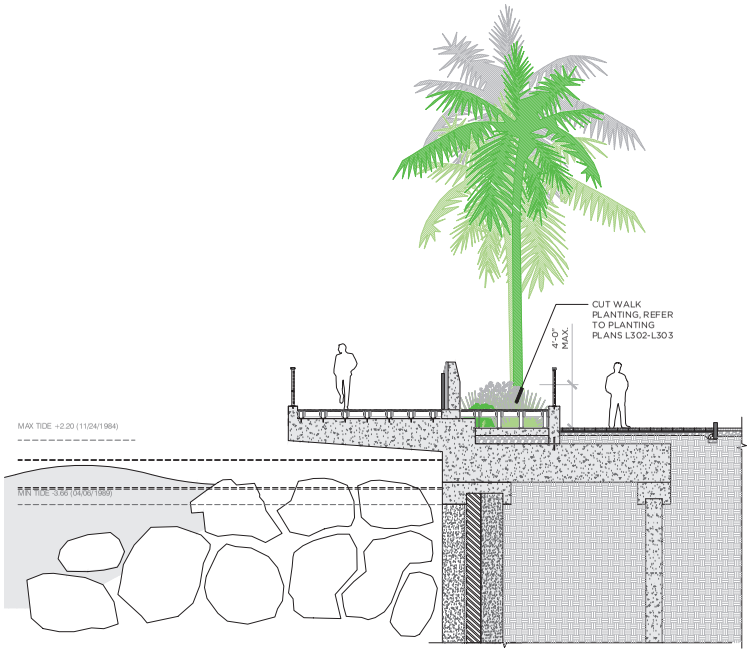
REVISIONS

SCALE: AS SHOWN

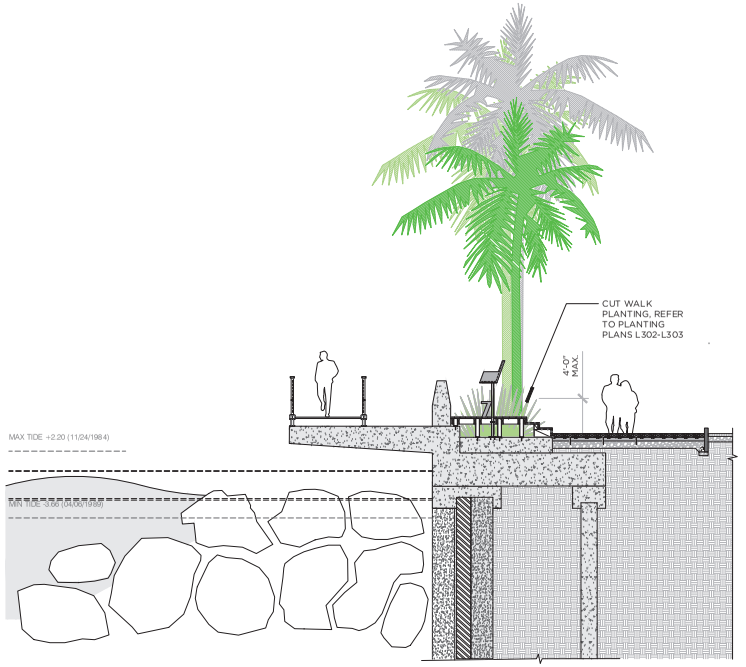
DRAWING NAME:
SITE SECTIONS AND ELEVATIONS

DRAWING NUMBER:
L404

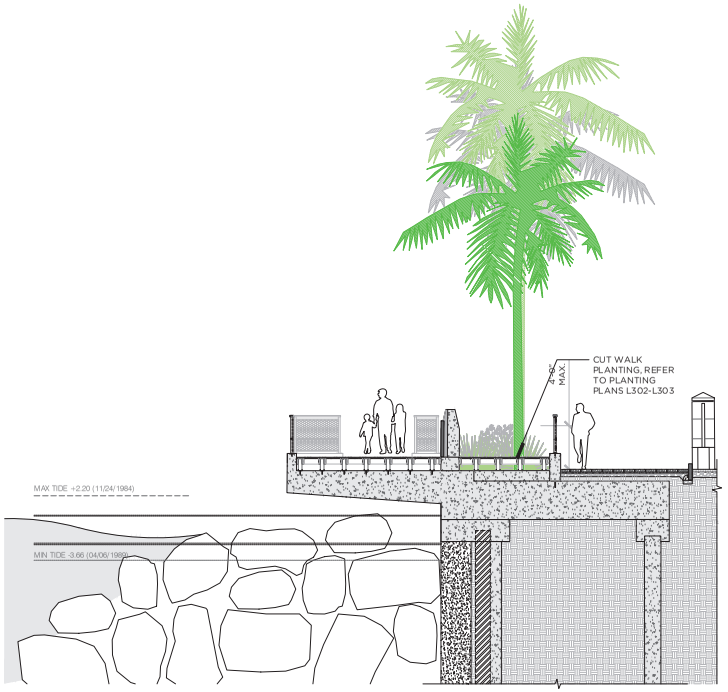
MDC036



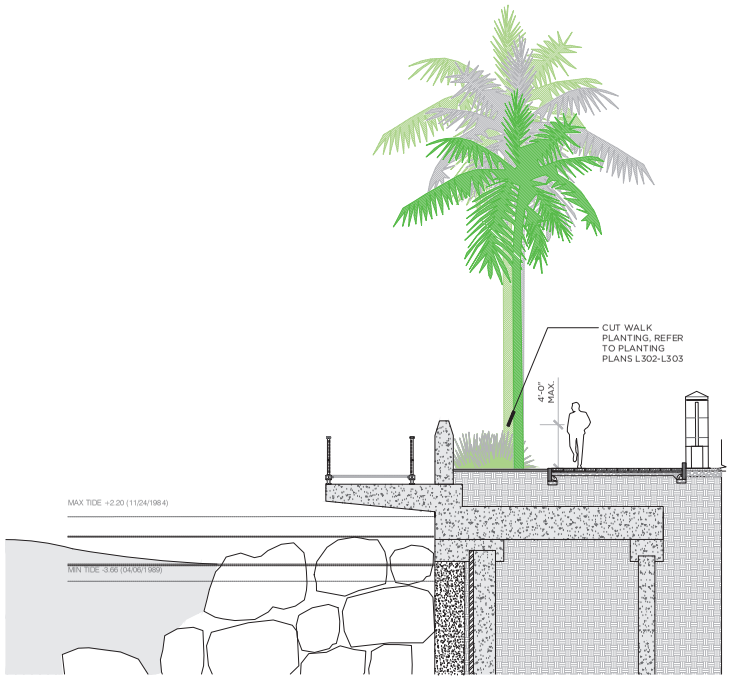
1 PLATFORM 2
1/4" = 1'-0" SECTION



2 CATWALK 1
1/4" = 1'-0" SECTION



3 PLATFORM 3
1/4" = 1'-0" SECTION



4 CATWALK 2
1/4" = 1'-0" SECTION

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MYND PROJECT NUMBER: 5-419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

SCALE: AS SHOWN

DRAWING NAME:
LANDSCAPE
SECTIONS

DRAWING NUMBER:
L411

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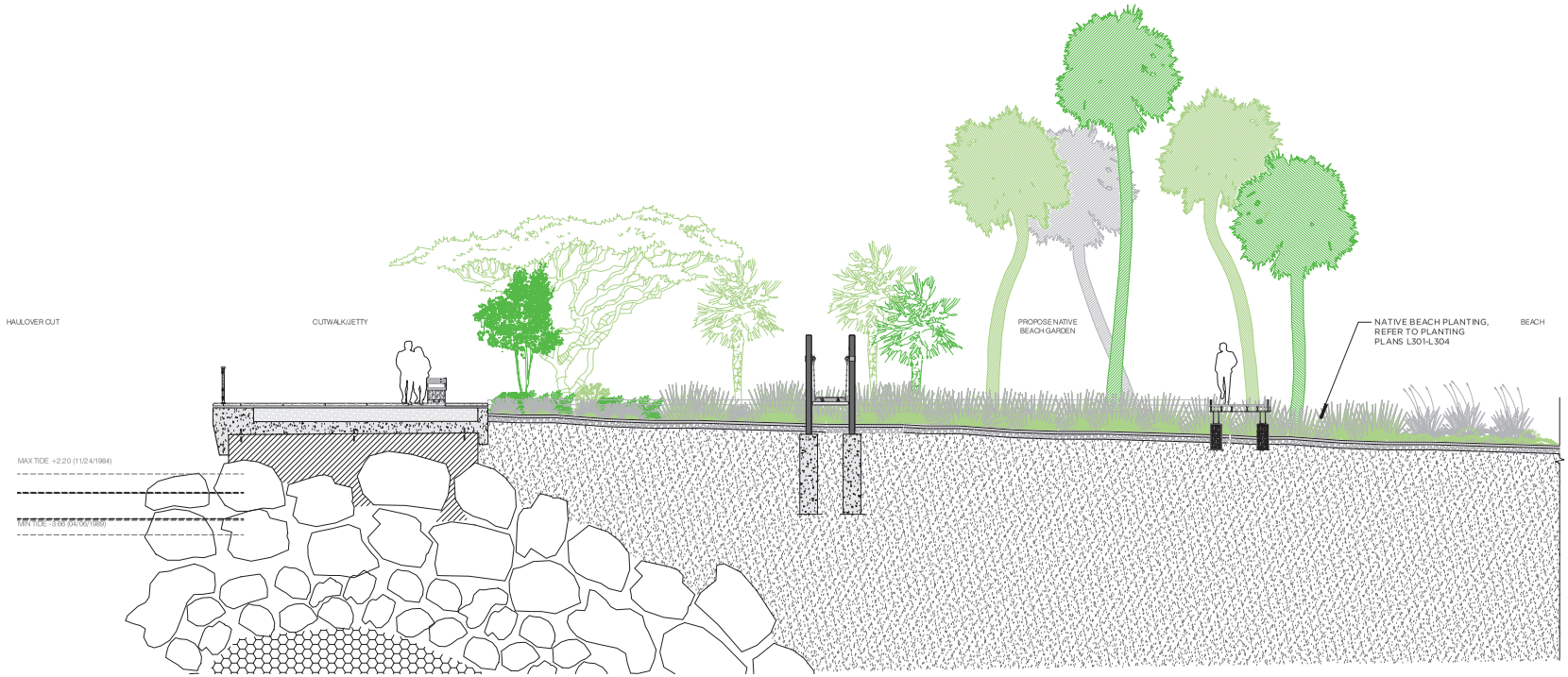
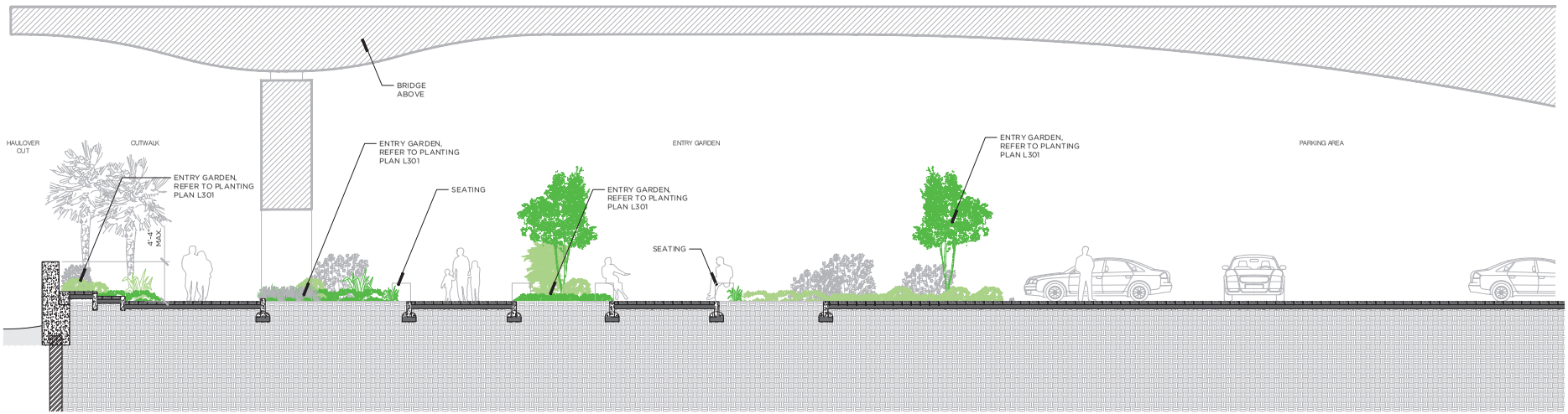


1 BEACH GARDEN
1/4" = 1'-0"

SECTION



2 ENTRY GARDEN
1/4" = 1'-0"

SECTION

BAL HARBOUR

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BAKERS HAULOVER CUT

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MYD PROJECT NUMBER: 5-419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

SCALE: AS SHOWN

DRAWING NAME:
LANDSCAPE SECTIONS

DRAWING NUMBER:
L412

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MDC038

GENERAL PLANTING NOTES

1. Landscape contractor shall be responsible for verifying all underground utilities prior to digging it any area. Landscape contractor shall notify all necessary utility companies 48 hours minimum prior to digging for verification of all underground utilities, irrigation and all other obstructions and coordinate with owner's Representative prior to initiating operations. Drawings are prepared according to the best information available at the time of preparing these documents. Utilities must be protected using a root barrier fabric wrap or equivalent.
2. Landscape contractor is to report any discrepancies between the construction drawings and field conditions to the owner immediately. Landscape contractor to verify quantities and report any discrepancies to owner and/or landscape architect.
3. Landscape contractor shall familiarize himself/herself with existing site conditions prior to initiating planting. All existing site furnishings, paving, landscape and other elements to remain shall be protected from any damage throughout all construction phases unless otherwise noted.
4. Landscape contractor shall coordinate all work with related contractors and with the general construction of the project in order not to impede the progress of the work of others or the landscape contractor's own work. Landscape contractor shall provide schedule of his/her works two weeks in advance, beginning two weeks prior to commencing landscape trade construction.
5. Landscape contractor shall be responsible to remove existing ground cover for all planting beds as specified prior to planting relocated material. Landscape contractor shall be responsible to replace all portions of existing landscape and hardscape areas damaged while completing planting installation with same grass or materials species to the satisfaction of the owner.
6. Landscape contractor shall bear all costs of testing of soils, amendments, etc. associated with the work and included in the specifications. Prior to commencement of the landscape planting work the landscape contractor shall provide complete soil tests with recommendations for the installation area.
7. Landscape contractor shall field adjust location of plant material as necessary to avoid damage to all existing underground utilities and/or existing above ground elements. All changes required shall be completed at the landscape contractor's expense and shall be coordinated with the owner and the landscape architect. Landscape contractor shall field stake the location of all plant material prior to initiating installation for the review and approval of the owner and/or landscape architect.
8. Any substitutions in size and/or plant material must be approved by the landscape architect or owner prior to modification of the contract, purchasing and delivery of plants. All plants will be subject to approval by landscape architect and/or owner before planting can begin. All plant materials will not include any plants considered to be invasive to South Florida's native plant communities.
9. Landscape contractor shall coordinate all planting work with permanent or temporary irrigation work. Landscape contractor shall be responsible for all hand watering as required by owner to supplement irrigation watering and rainfall. Landscape contractor shall be responsible for hand watering in all planting areas, regardless of the status of existing or proposed irrigation.
10. Landscape contractor shall clean the work areas at the end of each working day. Rubbish and debris shall be collected and deposited off-site daily. All materials, products and equipment shall be stored in an organized fashion as directed by the owner.
11. Landscape contractor shall regrade all areas disturbed by plant removal, relocation and/or installation work. Landscape contractor shall replace (by equal size and quality) any and all existing plant material disturbed or damaged by plant removal, relocation, and/or installation work.
12. Site distance concerns must be maintained for clear site visibility from thirty (30) inches to seventy - two (72) inches, tree trunks excluded as specified, for planting area adjacent vehicular use areas.
13. All planting materials shall meet or exceed the American Association of Nurserymen (ANNS) standards for minimum acceptable form, quality, and size. All root balls shall conform to the size standards set forth in "American Standards for Nursery Stock". Trees grown in grow bags or grow bag type material are not allowed.
14. Any substitutions in size and/or plant material must be approved by the landscape architect or owner prior to modification of the contract, purchasing and delivery of plants. All plants will be subject to approval by landscape architect and/or owner before planting can begin. All plant materials will not include any plants considered to be invasive to South Florida's native plant communities.
15. All plant material shall be strict accordance to Florida No. 1 grade, according to the "Grades and Standards for Nursery Plants", published by the Florida Department of Agriculture and Consumer Services, the project manual and/or specifications.
16. Plant material in some cases may exceed Florida No.1 grade in order to meet the minimum requirements for the project. All landscape and specifications shall meet or exceed the minimum requirements as shown in the applicable municipal codes. Plant size specifications take precedence over container size.
17. All plant material shall be protected during transport and delivery to final location with shade cloth or other acceptable means of windburn prevention.
18. Landscape contractor shall not relocate or demolish any existing trees or palms on site before appropriate tree relocation and clearing and grubbing permits are obtained from the applicable municipality.
19. Landscape contractor is responsible for maintaining, in full all planting areas (including watering, Spraying, mulching, mowing, fertilizing, etc.) until the job is accepted, in full, by the owner and/or landscape architect. Landscape contractor shall be responsible for the guarantee of all plant material for a period of twelve (12) months from the date substantial completion. Substantial completion constitutes the beginning of guarantee period.
20. All existing trees to remain and all relocated plant material shall be protected from damage or injury and shall be barricaded or otherwise suitably flagged and protected from injury.
21. All existing trees to remain that may impede construction shall be protected by installing protective barriers around the dripline of trees. The protective barriers shall be seen easily by operators of trucks and other equipment. Protective barriers shall be constructed of sturdy materials (not flagging or ribbons) and shall be installed prior to and maintained throughout construction and/or land development:
   a. Do not store or use materials or equipment within the dripline of any tree to be relocated on site unless the activity is being done to protect trees.
   b. Do not discharge or contaminate the soil within the dripline of any tree to be relocated on site with any construction materials such as paint, oil, solvents, petroleum products, asphalt, concrete, mortar, or other materials that may cause adverse impacts.
   c. Clearing of vegetation within the dripline of trees designated for preservation shall only be by hand or light rubber wheeled equipment that will not damage tree roots.
   d. Make no attachments, other than those of a protective and non-damaging nature, to any tree to be retained on the site.
   e. Do not change the natural grade above the root system within the dripline of any tree to be retained on site unless it can be demonstrated to the governing body that it will not damage the tree.
22. Avoid any encroachments, excavations or severe grade changes within the dripline of preserved trees unless it can be demonstrated to the governing body that it will not impact any tree.
23. All plant material shall be installed in a sound, workmen- like manner and according to accepted good planting and tree relocation procedures with the quality of plant materials as hereinafter described. All elements of landscaping shall be installed so as to meet all applicable ordinances, code requirements, and FDOT standards.
24. Guying and staking practices shall not permit nails, screws, wires, etc. to penetrate outer surface of tree or palm. Trees or palms rejected due to this practice shall be replaced at the landscape contractor's expense.
25. There shall be no chains or cables on trees or palms. Handle with two inch (2") minimum width nylon straps or equal. Burlap material, wire cages, plastic straps, etc., must be cut and removed from top one - third (1/3) of root ball.
26. Assure drainage and percolation of all planting pits prior to installation of plant material. Landscape contractor shall fill all tree pits with water before planting to assure that proper drainage ant percolation is available. Correct if required to assure percolation. Landscape contractor is responsible for replacement of all plants lost due to inadequate drainage conditions.
27. Landscape contractor shall mulch all plant material throughout and completely to a three inch (3") depth of loose, weed free mulch as specified.
28. Landscape contractor to request final acceptance of project in writing. If all work is satisfactory and complete in accordance with conditions of contract documents, then the owner and the landscape architect shall declare the project substantially complete.
29. Landscape contractor to replace rejected plant material within one (1) week of written notice.
30. Plant material which is not installed at the direction of the landscape architect or owner will become the property of the contractor. Landscape contractor shall provide the owner credit for any plant material not installed on the site.

SOIL PREPARATION & SOIL MIX

A. Non-Beach Planting Areas (Non-sandy Soil Medium)

1. All plants noted for removal shall be removed and properly disposed of off-site at contractor's expense unless otherwise noted.
2. Before replacing topsoil, rake subsoil surface clear of stones (1" diameter and larger), debris, rubbish, and remaining roots from removed plant material.
3. Scarify subsoil to a depth of six inches (6").
4. Contractor is to avoid application of any and all pesticides, herbicides, and fungicides prior to planting.
5. Peat-free amendments and top-soil are preferred and shall be free of deleterious materials that would be harmful to plant growth, shall be free of nematodes, shall be of uniform quality, and shall have a pH value between 5.3 and 6.5 (as determined in accordance with ASTM E70). Peat-free topsoil shall be sterilized to make free of all viable nut grass and other undesirable weeds, prior to the addition of biological amendments, such as compost and/or inoculates.
6. Topsoil shall be natural, fertile, agricultural soil capable of sustaining vigorous plant growth
   It shall be of uniform composition throughout, with admixture of subsoil. It shall be free of stones, lumps, live plants an their roots, sticks, and other Extraneous matter. Spread topsoil mixture to minimum depth of four inches (3") throughout all lawn areas and twelve inches (8") in all areas to be landscaped.
7. Topsoil shall not be extremely acid or alkaline, nor contain toxic substances which may be harmful to plant growth. The top soil pH shall be in the range of pH 5.5 to 6.5. If necessary, the Contractor shall apply the appropriate soil amendments adjusting soil pH to assure a pH range of 5.5 to 6.5.
8. Smooth all soil mixture to five inches (5") below top of surrounding pavement edges. This allows room for 3" of mulch and 2" clear space below top of pavement.
9. Smooth topsoil mixture to two inches (2") below finish grade in areas to be sodded.
10. After digging a hole to the necessary depth, add one half of the selected fertilizer and soil amendments and incorporate them into the soil before inserting the plant. Twist the rootball to seat it before backfilling. After backfilling to cover two thirds of the rootball, add the remaining fertilizer/amendments in a ring before completely filling the planting hole.
11. Finish grade all topsoil areas to a smooth, even surface, assuring positive drainage away from the structures and eliminate any low areas which may collect water.
12. Contractor shall assure percolation and drainage of all planting pits prior to planting. Contractor will be responsible for all plants lost due to the lack of percolation.
13. Contractor to remove debris and excess material daily from job site. Contractor shall remove all staking of trees and palms after twelve (12) months of substantial completion.

B. Beach and Dune Planting Areas (Sandy Soil Medium)

1. All plants noted for removal shall be removed and properly disposed of off-site at contractor's expense unless otherwise noted.
2. Before soil amendments are introduced, ensure all earthworks are completed. Any sand introduced from on-site must be pre-inspected for contaminants. If dredged sand is to be used, adequate time must be given to allow for salt-leaching.
3. No subsoil disturbance will be performed.
4. Contractor is to avoid application of any and all pesticides, herbicides, and fungicides prior to planting.
5. Peat-free amendments are preferred and shall be free of deleterious materials that would be harmful to plant growth, shall be free of nematodes, shall be of uniform quality, and shall have a pH value between 5.3 and 6.5 (as determined in accordance with ASTM E70). Peat-free topsoil shall be sterilized to make free of all viable nut grass and other undesirable weeds, prior to the addition of biological amendments, such as compost and/or inoculates.
6. Top soil shall not be applied on beach planting area. If top-soil is needed, its use will be limited to areas protected from prevailing winds/tides and in small patches adjacent to woody shrubs, trees, and palms.
7. Topsoil shall be natural, fertile, agricultural soil capable of sustaining vigorous plant growth
   It shall be of uniform composition throughout, with admixture of subsoil. It shall be free of stones, lumps, live plants an their roots, sticks, and other Extraneous matter. Spread topsoil mixture to minimum depth of four inches (3") throughout all lawn areas and twelve inches (8") in all areas to be landscaped.
8. Topsoil shall not be extremely acid or alkaline, nor contain toxic substances which may be harmful to plant growth. The top soil pH shall be in the range of pH 5.5 to 6.5. If necessary, the Contractor shall apply the appropriate soil amendments adjusting soil pH to assure a pH range of 5.5 to 6.5.
9. Remove all rocks and other objects over one inches (1") in diameter.
10. Smooth all soil mixture to five inches (5") below top of surrounding pavement edges. This allows room for 3" of mulch and 2" clear space below top of pavement.
11. The use of a biodegrade **water-adsorbing polymer gel product (hydrogel) that has been hydrated according to label directions can be placed in the hole prior to planting.** Use between 8 and 12 oz of hydrated gel per transplant; use the higher rates during the dry season.
12. After digging a hole to the necessary depth, add one half of the selected fertilizer and soil amendments and incorporate them into the soil before inserting the plant. Twist the rootball to seat it before backfilling. After backfilling to cover two thirds of the rootball, add the remaining fertilizer/amendments in a ring before completely filling the planting hole.
13. Finish grade all topsoil areas to a smooth, even surface, assuring positive drainage away from the structures and eliminate any low areas which may collect water.
14. Contractor shall assure percolation and drainage of all planting pits prior to planting. Contractor will be responsible for all plants lost due to the lack of percolation.
15. Contractor to remove debris and excess material daily from job site. Contractor shall remove all staking of trees and palms after twelve (12) months of substantial completion.

HERBICIDE APPLICATION

We encourage adopting an Integrated Pest Management (IPM) approach (as detailed by UC ANR Statewide IPM Programs). Tackling weed control with a preventive approach prior to active intervention is essential.

Only after exhausting all IPM preventative measures and if the requirements of 205.206 of Federal regulations Subpart C, Organic Production and Handling Requirements are met (which requires the use of preventive, mechanical, physical, and other pest, weed, and disease management practices) will the following applications be used:

1. For pre-emergent use (following products' specific application instructions):
   - SAFE 'N SIMPLE Pre-emergence Weed Control 9-0-0
   - EPSOMA ORGANIC Weed Preventer 9-0-0
   - Or equivalent with OMRI certification

   Effective only with the use of Bio-fertilizers detailed in Subpart below.
2. For post-emergent use (following products' specific application instructions and required applicator personal protective equipment):
   - Avenger AG® Optima Burndown Herbicide
   - EcoBlend™ Weed & Grass Control and Adjuvent
   - Final-San-O™ Non-Selective Grass and Broadleaf Herbicide
   - Dr. Earth™ Organic Final Stop Weed & Grass Herbicide
   - FireWorxx™ Herbicide
   - Weed Zap™
   - Axxe™
   - FinalSan™
   - Suppress™ - may require addition of acidifier (e.g. Biolink™) to the dilution water to maintain pH at or below 6.0.
   - WeedPharm™
   - Or equivalent with OMRI certification
3. Applicator/on-site supervisor must have FDACS Commercial Herbicide Applicator's License.

FERTILIZER APPLICATION

1. Fertilization of landscape beds is not required unless vegetation displays signs of nutrient deficiency.
2. All landscape beds to receive the same fertilizer type (following products' specific application instructions):
   - BOLSTER GRANULAR 4-4-4+3Fe Plus Mycorrhiza - Medium Grade, 200 SGN
   - EPSOMA ORGANIC Bio-tone Starter Plus Mycorrhizae
   - Or equivalent with OMRI certification
3. Fertilizer must be non-soluble (slow release)
4. Fertilizer must be broadcast spread over the soil surface and under mulch. Do not allow granules to remain on leaf surfaces.
5. Applicator/on-site supervisor must have FDACS Commercial Fertilizer Applicator's License.

TREE PROTECTION & RELOCATION NOTES

GENERAL NOTE:

All trees and palms will be evaluated for protection and relocation. Relocated trees will be handled in accordance with the following specifications. Trees to be removed will be mitigated as required by the authority having jurisdiction.

Relocated trees will be moved by the applicant following the ANSI A 300 standards and guaranteed by the permit holder for one year for trees of less than six inches in caliper and for two years for trees greater than six inches in caliper. A monetary guarantee of postal money order, certified check or cashier's check may be required to insure compliance with requirements. A tree protection barricade before, during and after construction activities by be required to ensure proper protection of tree or trees. This can be in addition to a monetary guarantee. The amount of guarantee is based on the equivalent value of the tree or trees specifically included.

PART I - PREPARATION

1.1 - WORK TO BE PERFORMED AND WORK INCLUDED

A. Provide the following:

1. Prepare and relocate trees and palm designated for relocation within the project boundaries into holding areas, include all aspects of preparation, acclimatization, holding, relocation, protection, and maintenance.
2. Protection and care of existing trees and palms to remain within the project boundaries.
3. Installation and operation of temporary irrigation system and hand watering as required by these specifications.
4. Establishment of holding areas necessary to support the phasing of the project.
5. Follow-up maintenance as required by these specifications.
6. Labor, materials, equipment a services to complete all preparation, relocations and protection work as indicate on the drawings, as specified herein, or both.

PART II - PRODUCTS

2.1 - PLANTING SOIL MIXES

A. Planting Soil Mixture A to be placed in non-beach shrub and ground cover beds and in broad leaf tree pits, both new and transplanted:

   * 20% Topsoil
   * 10% Peat or Compost
   * 70% Sand

B. Planting Soil Mixture B to be placed backfill around the root balls of non-beach palms shall be:

   * 90% Native sand from on site or approved source
   * 10% Topsoil

PART III - EXECUTION

3.1 PREPARATION FOR RELOCATION OF TREES AND PALMS

A. Crown Pruning

1. Broadleaf Trees - All trees are to trimmed by thinning the crown only, and not by reducing crown dimensions. Trim conform to NAA and ISA standards, including removal of dead wood. Repair any existing juries to trees including cavities and machinery marks.
2. Palms - Remove all seed pods and oldest fronds, leaving 9-11 youngest fronds. For Sabal Palms only, cut back all fronds in a 'hurricane cut' prior to transplanting unless specified otherwise in the field by the landscape architect.

B. Fertilization and Watering

1. Preparation
   a. All Trees and Palms to be relocated shall be treated with wetting agents, fertilizers, root stimulants, and soil conditioners at the time of relocation.
   b. Form and maintain an earth berm 6" high outside the proposed root ball prior to watering and apply 3" approve mulch within saucer. Water application shall saturate the root ball to its entire depth

C. Root Pruning

1. Waterings
   a. All trees and palms to be relocated - to be provided with an automatic irrigation system which provides 2 bubblers to each tree and palm, prior to root pruning.
   b. Provide irrigation timer, or battery peered valve to water trees to be relocated. Hand watering in lieu of automatic system shall not be allowed, however hand watering shall be performed to avoid lapses should the automatic system be inoperable for more than 24 hours and during the initial planting period as specified.
2. Barricade
   a. Barricade all existing trees and pair with six foot (6') chain link fence or other barricade approved by Owner.
   b. Root Pruning Technique - All trees all be excavated by digging a trench 36" deep, either by hand or with a trenching machine designed for this purpose. Hand cut broadleaf tree roots after trenching to produce clean cuts with no splits or tears. Trees to be root pruned shall have a minimum root size of 10" per 1" of caliper measured at DBH for broad leaf trees, 30" for Sabal Palm 4.2' for Coconut Palms. Sabal palms shall not require root pruning.
   c. Timing - All broadleaf trees are to be relocated shall be maintained for a minimum of ten (10) weeks after root pruning prior relocation. All palms except Sabal Palms, shall be maintained a minimum of four (4) weeks prior to relocation.
   d. Relocation of Trees and Palms Preparation - Trees and palms shall - thoroughly soaked to the full depth of the root ball daily for seven consecutive days prior to relocation. Accurately locate position and elevation where all trees are intended to be planted, for verification by Landscape Architect. Verify that no overhead underground utilities, existing or proposed, conflict with proposed locations.

D. Digging and Handling

   e. Determining of previous root pruning and excavate around root mass to leave area outside lint of root pruning undisturbed. Digging shall be accomplished so as to produce clean cuts on all roots without tearing or splitting. Trenching shall be a minimum of 48" deep.
   f. Trees shall be handled in such a way as to avoid damage to bark and limbs subject to support cables or chains. Attached padded support cables or chains at multiple points where possible.
   g. Root balls hall be undercut prior to lifting. Do not force tree from ground prior to undercutting. Ball depth to be determined upon assessing conditions at time of trenching, to keep intact the entire root ball.
   h. Trees shall be properly wrapped during moving so trunks will not be scarred and damaged and to avoid broken limbs. Broken limbs or scarred trunks shall cause tree to be unacceptable and rejected at the Owner's option. Root balls and foliage shall be kept moist during all phases of relocation
   i. Partially backfill tree pits with 12" of approved planting soil prior to setting tree. This layer of so to be thoroughly drenched prior to relocation to achieve a stable platform at the correct elevation so that the top of root ball is 1" above proposed grade.
   j. Backfilling Flood bottom foil layer to settle tree into best position and to remove air pockets. Continue to flood root ball as planting soil is deposited to insure removal of all air pockets Produce saucer to retain water per drawings.
   k. Bracing - Support tree with machinery until bracing is complete. Buttresses may support separate trunks on multiple trunk trees. Maintain braces until completion of project.
   l. Irrigation - Install bubbler heads on all trees and palms. Connect each tree's system immediately to water source. Additionally, all transplanted trees and palms shall be hand watered daily for a period of six (6) weeks after transplanting. The irrigation system is designed for maintaining plant material only, and does not provide the volume of water required immediately after transplanting. Set time to run daily, to provide an equivalent of 6" of rain per week for 30 days, then reduce to equivalent of 3" per week.

E. Holding Area

   a. A holding area shall be provided specifically designated for storage and acclimatization of relocate trees and palms that are to be relocated in later project phases, or in the current phase. The holding area shall be of sufficient size to allow for temporary planting of trees an palms without undue crowding. Holding area shall be provided with a temporary automatic irrigation system, and shall be excavated and provided with a soil layer a minimum of 30" deep. Irrigation shall be monitored and supplemented as necessary to provide water in volumes sufficient for growth.

3.2 PROTECTION AND CARE OF EXISTING TREES AND PALMS TO REMAIN

A. Watering

   a. Existing irrigation shall remain operable to the greatest extent possible during construction. All on site trees to remain shall be supplied with temporary irrigation to remain operable until permanent irrigation is operable. Existing irrigation system to be demolished may be utilized as the temporary irrigation system.

B. Barricading

   a. Barricade all existing trees and palms with six foot (6') chain link fence or other barricade approved by Owner. Barricades shall be installed at an offset distance two feet (2') outside the tree drip line/edge of tree canopy to the extent practical, prior to any construction activity.

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(305) 978-3138

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10.26.2022

REVISIONS:

SCALE: NTS

DRAWING NAME:
PLANTING NOTES

DRAWING NUMBER:
L511

NOT FOR CONSTRUCTION

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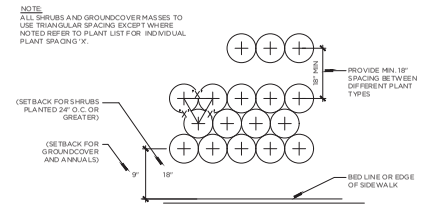
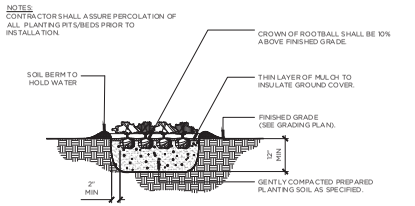


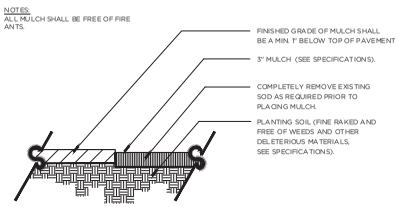
1 TYPICAL PLANT LAYOUT

PLAN — SCALE: 1" = 1'-0"



2 GROUND COVER

SECTION — SCALE: 1" = 1'-0"



3 MULCH

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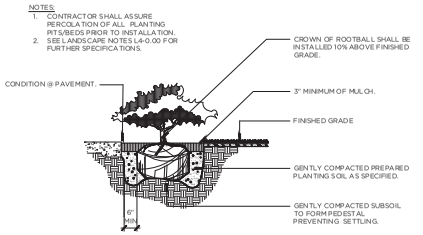

4 SHRUB PLANTING

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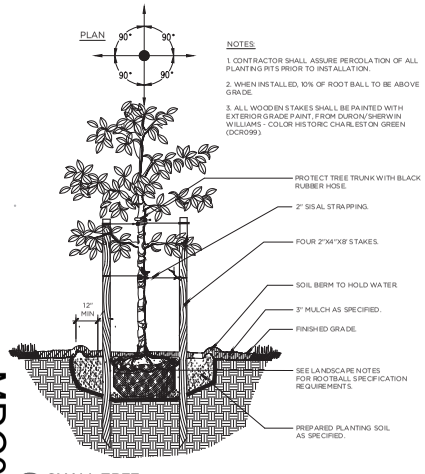
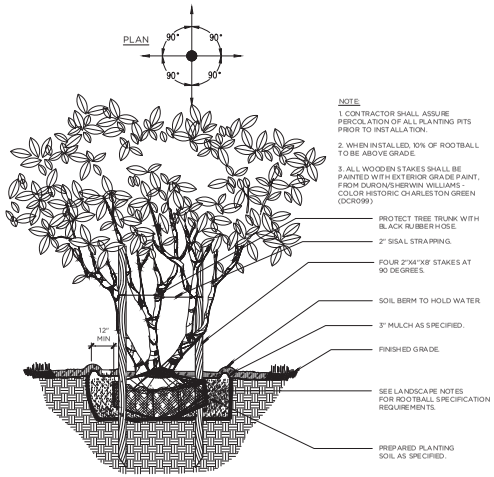


5 SMALL TREE

SECTION — SCALE: 1" = 1'-0"



6 MULTI-TRUNK TREE

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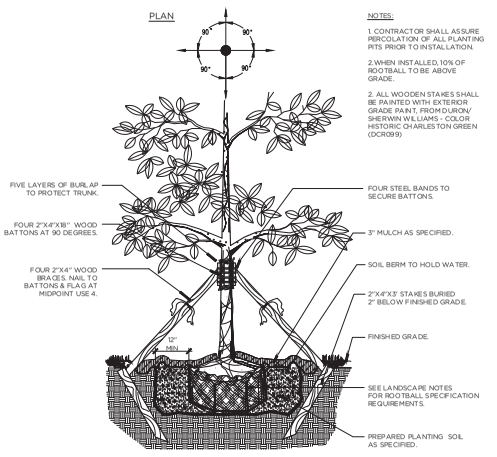
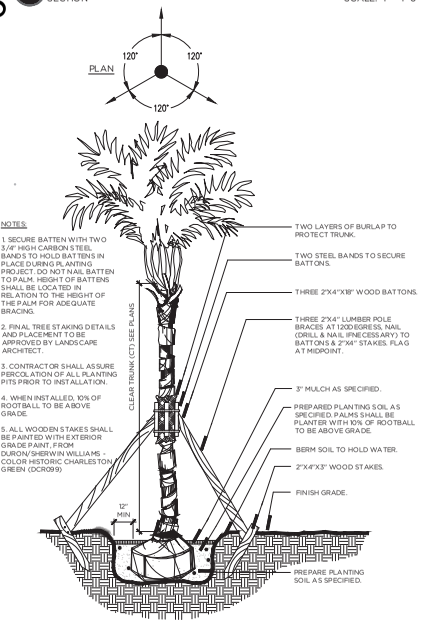


7 LARGE TREE - UP TO 4" CALIPER

SECTION — SCALE: 1" = 1'-0"

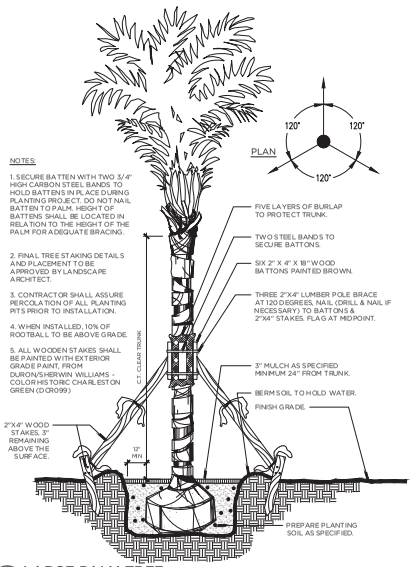
8 TREE ANCHOR SYSTEM

CUT SHEET — NOT TO SCALE



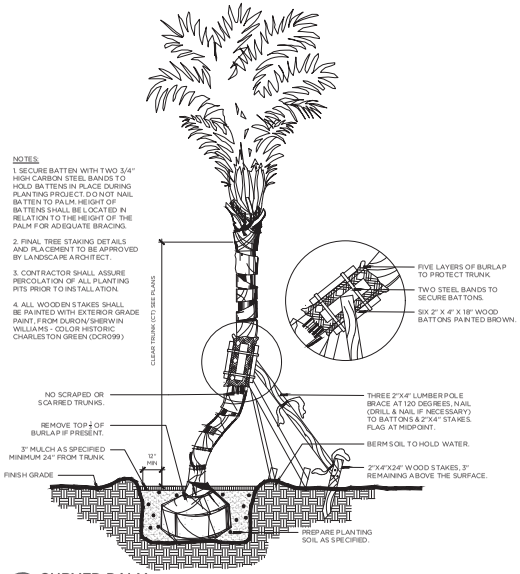
9 SMALL PALM

SECTION — NOT TO SCALE



10 LARGE PALM TREE

SECTION — NOT TO SCALE



11 CURVED PALM

SECTION — NOT TO SCALE

MDC039

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Environmental
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714 E McNab Rd
Pompano Beach, FL 33060
(954) 782-1908

Lighting
Miami Lighting Design
2550 S Bayshore Drive Suite 206
Miami, FL 33133
(305) 978-3138

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10.26.2022

REVISIONS

SCALE: VARIOUS

DRAWING NAME:
PLANTING DETAILS

NOT FOR CONSTRUCTION

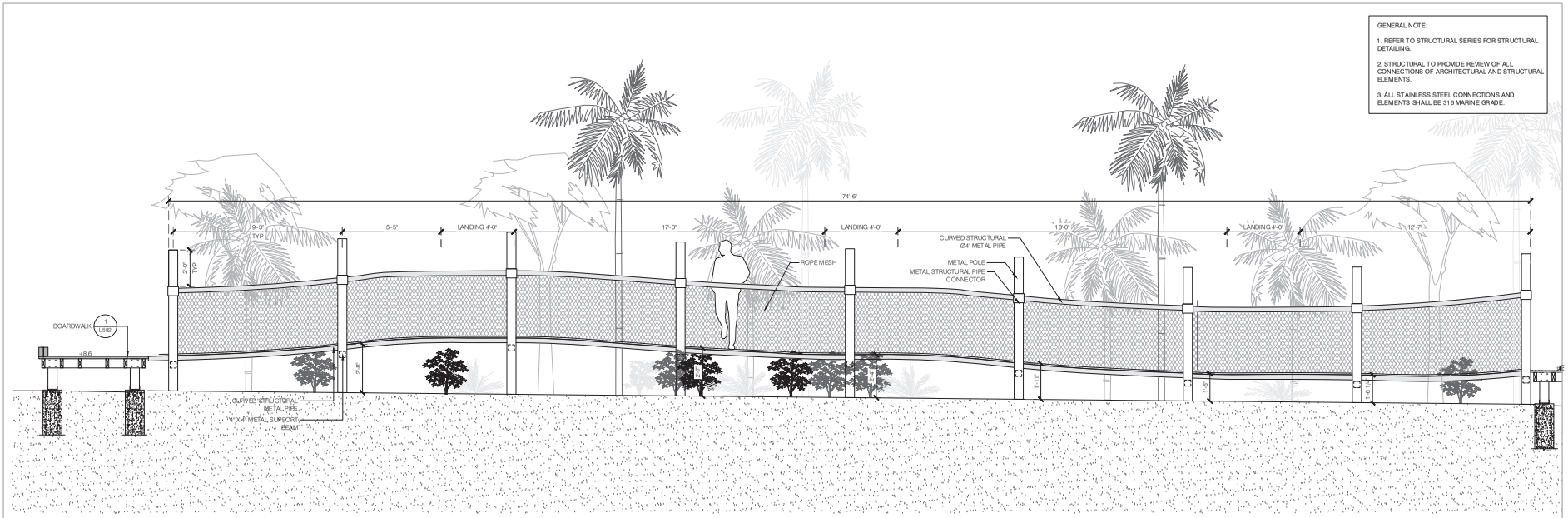
DRAWING NUMBER:
L512

GENERAL NOTE:

1. REFER TO STRUCTURAL SERIES FOR STRUCTURAL DETAILING.

2. STRUCTURAL TO PROVIDE REVIEW OF ALL CONNECTIONS OF ARCHITECTURAL AND STRUCTURAL ELEMENTS.

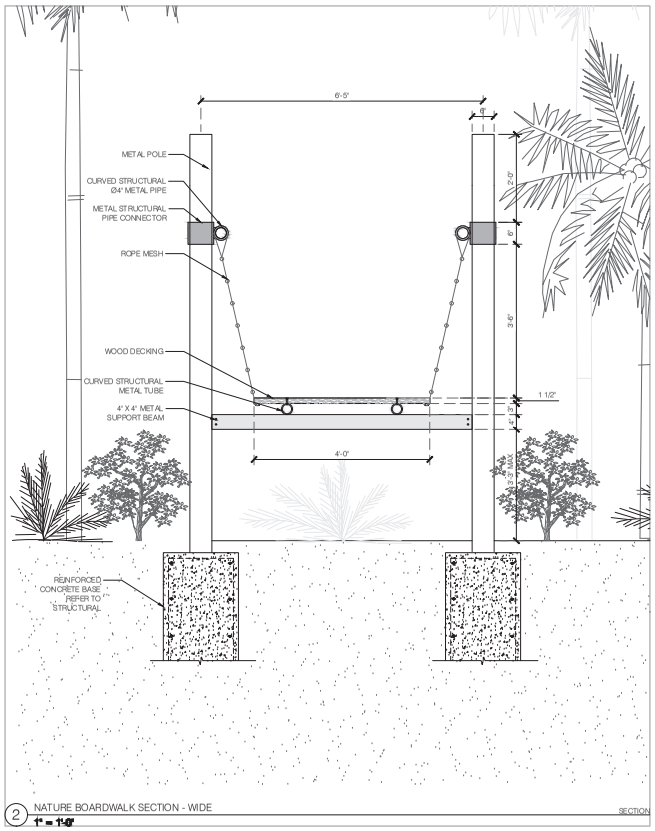
3. ALL STAINLESS STEEL CONNECTIONS AND ELEMENTS SHALL BE 316 MARINE GRADE.



1 NATURE BOARDWALK ELEVATION
1/2" = 1'-0"

ELEVATION

MDC040



2 NATURE BOARDWALK SECTION - WIDE
1" = 1'-0"

SECTION

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BAL HARBOUR

THE CUT WALKAND JETTY
BAKERS HAULOVER CUT
1839 COLLINS AVENUE, BAL HARBOUR, FL 33154

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Structural Engineers
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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

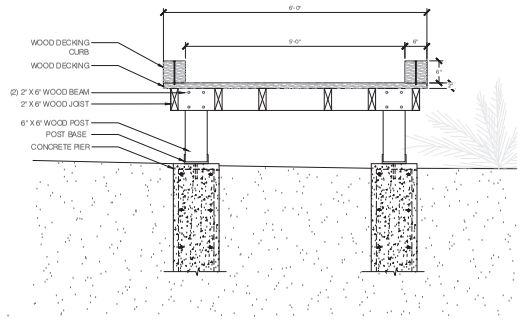
REVISIONS

SCALE: AS SHOWN

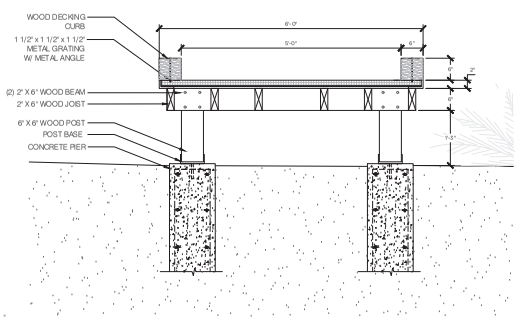
DRAWING NAME:
BEACH PLAY GARDEN DETAILS 1

DRAWING NUMBER:
L581

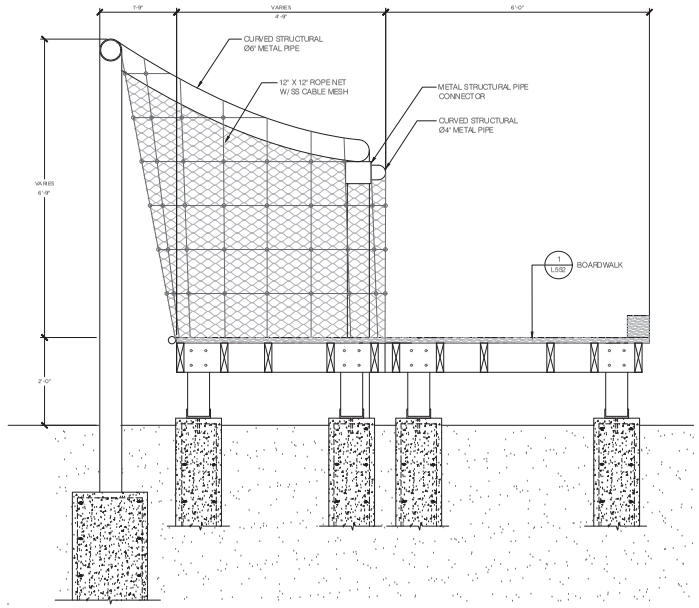
NOT FOR CONSTRUCTION



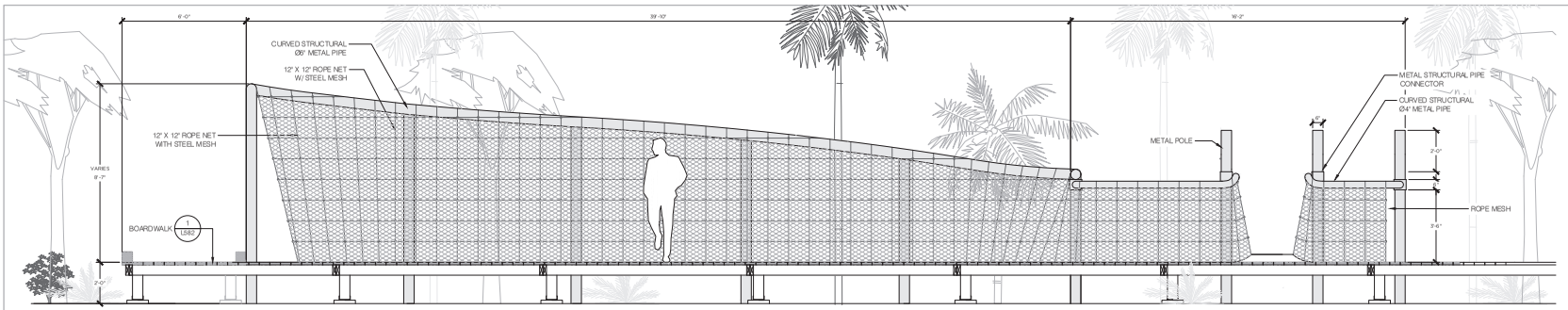
1 BOARDWALK
1" = 1'-0"
SECTION



2 METAL GRATING WALK
1" = 1'-0"
SECTION



3 ANGLED NET HAMMOCK SEAT
1" = 1'-0"
SECTION



4 ANGLED NET HAMMOCK SEAT
1/2" = 1'-0"
ELEVATION

GENERAL NOTE:

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2. STRUCTURAL TO PROVIDE REVIEW OF ALL CONNECTIONS OF ARCHITECTURAL AND STRUCTURAL ELEMENTS.

3. ALL STAINLESS STEEL CONNECTIONS AND ELEMENTS SHALL BE 316 MARINE GRADE.

MDC041

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS

SCALE: AS SHOWN

DRAWING NAME:
NATURE
BOARDWALK 2

DRAWING NUMBER:
L582

NOT FOR CONSTRUCTION

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GENERAL NOTES:

1. ALL WORK MUST CONFORM TO THE REQUIREMENTS OF THESE DRAWINGS, TECHNICAL SPECIFICATIONS, AND FDOT STANDARD SPECIFICATIONS WHERE REFERENCED. FDOT STANDARD SPECIFICATIONS ARE REFERENCED FOR MATERIAL SPECIFICATIONS AND CONSTRUCTION METHODS UNDER DIVISION II "CONSTRUCTION DETAILS". DIVISION I "GENERAL REQUIREMENTS AND COVENANTS" OF THE FDOT STANDARD SPECIFICATIONS DOES NOT APPLY. THE CONTRACT WITH THE OWNER MUST GOVERN OVER FDOT SPECIFICATIONS. MEANS OF MEASUREMENT AND PAYMENT MUST BE AS STIPULATED BY THE OWNER AND THE CONTRACT. FDOT STANDARD SPECIFICATIONS REFER TO THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR ROADWAY AND BRIDGE CONSTRUCTION", 2020 EDITION AND ALL SUPPLEMENTAL SPECIFICATIONS.
2. THE WORK CONSISTS OF FURNISHING ALL CONSTRUCTION, LABOR, EQUIPMENT AND MATERIALS AND PERFORMING ALL OPERATIONS IN CONNECTION WITH THE DEMOLITION AND CONSTRUCTION AS SHOWN ON THESE DRAWINGS AND SPECIFIED IN THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR MUST ABIDE BY ALL NOTES AND CONDITIONS INDICATED ON THE CONSTRUCTION DRAWINGS AND PERMITS.
4. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL BUILDING DEPARTMENT AND TRADE PERMITS NECESSARY FOR THIS WORK.
5. SITE VERIFICATION: PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR MUST CHECK THE DRAWINGS AGAINST THE SITE LOCATIONS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES IN DIMENSIONS OR SITE CONDITIONS. THE CONTRACTOR MUST NOT BEGIN CONSTRUCTION IN ANY SUCH AFFECTED AREA UNTIL THE DISCREPANCY HAS BEEN RESOLVED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.
6. CONTRACTOR MUST COORDINATE WITH OWNER FOR UPLAND STAGING AREA.
7. ALL SAFETY REGULATIONS ARE TO BE STRICTLY FOLLOWED.
8. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
9. THE CONTRACTOR MUST, ON A DAILY BASIS, REMOVE FROM THE SITE ANY EXCAVATED MATERIAL OR DEBRIS. DISPOSAL OF THE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL DEBRIS MUST BE DISPOSED OF AT AN APPROVED SITE.
10. THE CONTRACTOR MUST PLACE CONSTRUCTION DEBRIS CONTROL DEVICES. BOOMS, TARPAULINS, FLOATS, STAGING, AND OTHER DEVICES AS NECESSARY TO PREVENT CONSTRUCTION DEBRIS FROM ENTERING THE WATER AND AIR BORNE MATERIALS FROM LEAVING THE IMMEDIATE VICINITY OF THE SITE. THE CONTRACTOR MUST BE RESPONSIBLE FOR CLEAN-UP OF ANY MATERIALS DEPOSITED OUTSIDE THE WORK AREA OR IN THE WATER. SEE PERMIT CONDITIONS.
11. THE CONTRACTOR MUST ABIDE BY ALL APPLICABLE LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAWS, AND REGULATIONS.
12. SUBAQUEOUS AND/OR UNDERGROUND UTILITIES WERE NOT LOCATED AS PART OF THE SURVEY PROVIDED BY OWNER, CONTRACTOR MUST LOCATE ALL UTILITIES IN THE AREA OF CONSTRUCTION PRIOR TO COMMENCING WITH DEMOLITION AND CONSTRUCTION. CONTRACTOR MUST NOTIFY THE ENGINEER OF ALL CONFLICTS WITH EXISTING UTILITIES PRIOR TO COMMENCING WITH WORK IN THE CONFLICT AREA.
13. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
14. UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST RESTORE DISTURBED AREAS TO ORIGINAL CONDITION TO MATCH ADJACENT GRADES AND MUST REPLACE ANY DISTURBED PAVED OR GRASSED AREAS IN KIND.
15. ALL EXCAVATION, TRENCHING, SHEETING, SHORING AND BRACING MUST BE INSTALLED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS INCLUDING O.S.H.A.
16. NO SALVAGE VALUE IS EXPRESSED OR IMPLIED BY THESE CONTRACT DOCUMENTS FOR THE ITEMS TO BE REMOVED OR DEMOLISHED, UNLESS OTHERWISE NOTED.
17. THE CONTRACTOR MUST CONSIDER AND PLAN FOR, ON A DAILY BASIS, THE EFFECT OF TIDAL FLUCTUATION, WAVES AND WATER CURRENTS IN THE EXECUTION OF THE WORK.
18. THE CONTRACTOR MUST PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS USED IN THIS PROJECT.
19. WORK WILL REQUIRE BOTH BARGE-BASED AND UPLAND CONSTRUCTION EQUIPMENT.

NDC042

SURVEY NOTES:

1. TOPOGRAPHIC SURVEY PERFORMED BY ECS LAND SURVEYORS INC. ON DECEMBER 16, 2020, AND IS ONLY INDICATIVE OF CONDITIONS AT THAT TIME.
2. HORIZONTAL COORDINATES ARE IN FEET AND REFERENCED TO FLORIDA STATE PLANE EAST ZONE (NAD 83).
3. ELEVATIONS ARE IN FEET AND REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
4. THE FOLLOWING TIDAL DATUM RELATIONSHIP IS BASED ON NOAA STATION 8723080 HAULOVER PIER, N. MIAMI BEACH, FL, 1983-2001 TIDAL EPOCH AND NOT GUARANTEED TO REPRESENT CONDITIONS WHICH MAY OCCUR DURING CONSTRUCTION. ACTUAL WATER LEVELS MAY VARY FROM LEVELS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN ESTIMATES OF WATER LEVELS WHICH MAY OCCUR DURING CONSTRUCTION. VARIATION OF TIDAL LEVELS FROM THOSE INDICATED OR CONTRACTOR'S ESTIMATION OF TIDAL LEVELS MUST NOT BE CONSIDERED AS A CLAIM FOR ADDITIONAL COMPENSATION OR DELAY OF WORK.

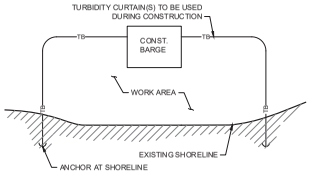
   TIDAL DATA:

MEAN HIGHER HIGH WATER (MHHW)	+0.43 NAVD
MEAN HIGH WATER (MHW)	+0.36 NAVD
NORTH AMERICAN VERTICAL DATUM 1988 (NAVD)	0.00 NAVD
MEAN TIDE LEVEL	-0.88 NAVD
NATIONAL GEODETIC VERTICAL DATUM 1929 (NGVD)	-1.56 NAVD
MEAN LOW WATER (MLW)	-2.11 NAVD
MEAN LOWER LOW WATER (MLLW)	-2.25 NAVD

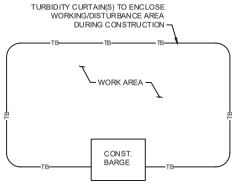
5. BATHYMETRIC SURVEY AT FLOOD SHOAL AND CHANNEL AREA COLLECTED BY OLIN HYDROGRAPHIC SOLUTIONS, INC. IN MARCH 2018.

TURBIDITY BARRIERS AND TESTING

1. THE CONTRACTOR MUST FURNISH, INSTALL AND MAINTAIN TURBIDITY CONTROL CURTAIN(S) AROUND WORK AREA. THE PURPOSE OF THE CURTAIN(S) IS TO AVOID ANY TURBIDITY OR DEBRIS FROM IMPACTING ANY ENVIRONMENTAL RESOURCES OUTSIDE THE PROJECT LIMITS AND GOING INTO THE MAIN WATERS. THE CONTRACTOR HAS THE OPTION TO ENCLOSE THE ENTIRE WATERSIDE OF THE SITE, WITHIN THE LIMITS OF DISTURBANCE, OR TO INSTALL AND MOVE THE CURTAIN(S) IN STAGES. THE CONTRACTOR MUST MAINTAIN SUCH CURTAIN(S) AT ALL TIMES IN THE AREAS WHERE WORK IS IN PROGRESS.
2. TURBIDITY BARRIERS MUST BE MANUFACTURED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS SECTION 104 AND 985.
3. DURING CONSTRUCTION, THE CONTRACTOR MUST MONITOR THE TURBIDITY LEVELS TO VERIFY THAT STATE WATER QUALITY STANDARDS ARE MAINTAINED AND CONSTRUCTION METHODS AND REPORTING ARE IN ACCORDANCE WITH THE ENVIRONMENTAL PERMITS.



ALONG SHORE
PLAN



OFF SHORE
PLAN

DEMOLITION NOTES:

1. CONTRACTOR MUST TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE DEMOLITION WITHIN THE LIMITS OF REQUIRED CONSTRUCTION AND AVOID ANY DAMAGE TO THE EXISTING STRUCTURES. PLAN MUST INCLUDE DETAILED MEANS AND METHODS OF DEMOLITION WORK.
2. ANY DAMAGE INCURRED IN EXECUTION OF THIS CONTRACT TO ANY PART OF THE PROPERTY/STRUCTURE NOT SPECIFICALLY DESIGNATED FOR DEMOLITION MUST BE REPAIRED, REPLACED AND/OR RECONSTRUCTED BY THE CONTRACTOR TO ITS ORIGINAL CONDITION AS DIRECTED BY THE ENGINEER AT NO EXPENSE TO THE OWNER.
3. ALL DEMOLISHED MATERIAL, EXCEPT AS NOTED OTHERWISE, BECOMES THE PROPERTY OF, AND MUST BE COMPLETELY REMOVED AND DISPOSED OF BY THE CONTRACTOR. THE REMOVAL, HANDLING, AND DISPOSAL OF ALL DEMOLITION MATERIALS MUST BE IN STRICT ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
4. IT MUST BE THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME FAMILIAR WITH THE MATERIALS TO BE DISPOSED OF AND ALL GOVERNING AGENCY REQUIREMENTS.
5. ALL REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES MUST BE COORDINATED WITH THE ENGINEER OR OWNER PRIOR TO PROCEEDING WITH THE CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO CONTROL FUGITIVE DUST ORIGINATING FROM THE PROJECT SITE DURING CONSTRUCTION BY WATERING OR OTHER METHODS AS REQUIRED.
7. ACTIVITIES REQUIRED FOR REMOVAL OF ENVIRONMENTALLY CONTAMINATED MATERIALS AND DEVICES MUST BE COORDINATED THROUGH THE OWNER.
8. ALL SURVEY MONUMENTS WITHIN LIMITS OF CONSTRUCTION ARE TO BE PROTECTED.
9. TREATED TIMBER MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
10. ALL CONCRETE MUST BE ASSUMED TO BE STEEL REINFORCED.
11. CONTRACTOR TO CONFIRM THAT UTILITIES WITHIN PROJECT AREA HAVE BEEN DE-ENERGIZED AND/OR CAPPED PRIOR TO DEMOLITION.

LAYOUT AND TESTING:

1. ALL CONSTRUCTION STAKEOUT MUST BE PERFORMED BY AND PAID FOR BY THE CONTRACTOR.
2. ALL TESTING, INSPECTION AND BACKFILL MUST BE IN ACCORDANCE WITH FDOT SPECIFICATIONS, AND MUST BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY RETAINED BY THE CONTRACTOR.
3. CONTRACTOR MUST RETAIN INDEPENDENT CONSULTANT TO PROVIDE INSPECTION AND MONITORING AT ADJACENT PROPERTIES IN ACCORDANCE WITH FDOT SPECIFICATION 108-02.

GEOTECHNICAL NOTES:

THE DESIGN DRAWINGS ARE BASED ON THE FINAL GEOTECHNICAL REPORTS DEVELOPED FOR BAL HARBOUR JETTY IMPROVEMENT PROJECT BY TIERRA SOUTH FLORIDA INC. DATED JANUARY 2ND, 2020.

DESIGN CRITERIA

1. DESIGN CODES:
   A. FLORIDA UNIFORM BUILDING CODE (2020).
   B. AMERICAN CONCRETE INSTITUTE – BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14).
   C. AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL, 16TH EDITION.
   D. AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (AWS D1.1-2017).
   E. ASCE MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES (ASCE 7-16).
   F. FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2022).
2. DESIGN CRITERIA:
   BASIC DESIGN WIND SPEED AND WAVE FORCES ARE BASED ON A 50-YEAR RETURN PERIOD.
   WIND LOADS: 1. JETTY (UNOCCUPIED) 175 MPH (3-SEC GUST)
   2. JETTY (OCCUPIED) 50 MPH (3-SEC GUST)
   WAVE LOADS-50 YEAR EVENT (UNOCCUPIED): 1. VERTICAL UPLIFT FORCES (STRUCTURE OVER WATER) VARIES BY ELEVATION 0.52 TO 1.16 KIP/FT2
   WAVE LOADS-1 YEAR EVENT (OCCUPIED): 2. HORIZONTAL VARIES BY HEIGHT OF WALL 0.21 TO 0.82 KIP/FT2
3. VERTICAL DESIGN LOADS:
   B. GOLF CART 100 PSF, 650LBS CONCENTRATED LOAD
   C. HS-20 EMERGENCY VEHICLE 250PSF, 16 KIPS CONCENTRATED LOAD
   D. PEDESTRIAN LOAD 100 PSF

PILE DRIVING REQUIREMENTS

1. ALL PILES MUST BE DRIVEN TO REQUIRED CAPACITY BASED ON DRIVING CRITERIA ESTABLISHED BY THE TEST PILE PROGRAM, BUT UNDER NO CIRCUMSTANCES MUST THE PILE TIP ELEVATION BE HIGHER THAN THE MINIMUM EMBEDMENT DEPTH INDICATED. CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF ANY PILES THAT DO NOT REACH THE REQUIRED PILE TIP ELEVATION.
2. PILE DRIVING TOLERANCES:
   - TOP OF PILE AT CUTOFF ELEVATION MUST BE WITHIN 3" HORIZONTALLY AND 2" VERTICALLY OF PLAN LOCATION. MANIPULATION OF PILES TO FORCE THEM INTO POSITION WILL NOT BE PERMITTED.
   - PILES MUST BE PLACED PLUMB WITH OUT-OF PLUMBNESS NOT EXCEEDING 1/4" PER FOOT OF LENGTH AND TRUE TO LINE.
   - CHECK ALL PILE FOR HEAVE. RE-DRIVE ALL HEAVED PILES TO THE TIP ELEVATION INDICATED.
7. DRIVE SHEET PILING IN ACCORDANCE WITH FDOT SPECIFICATION 455-9.
8. MAINTAIN PILE DRIVING LOGS FOR ALL PILES.
9. THE CONTRACTOR MUST SUBMIT PILE HAMMER DATA FOR REVIEW BY THE ENGINEER.
10. CONTRACTOR MUST BE PREPARED TO DRIVE PILING THROUGH LIMESTONE LAYERS. REFER TO GEOTECHNICAL REPORT.
11. CONTRACTOR MUST PROVIDE LAYOUT OF SHEET PILE ENSURING BEST FIT TO DESIGN ALIGNMENTS TO ENGINEER FOR REVIEW.
12. CONTRACTOR MUST SUBMIT PROPOSED CONSTRUCTION SEQUENCING PLAN DETAILING INSTALLATION TECHNIQUES, QUALITY CONTROL, EQUIPMENT AND CONSTRUCTION PHASING TO THE ENGINEER FOR REVIEW PRIOR TO INITIATING CONSTRUCTION.
13. TYPE AND CONDITIONS OF EXISTING SEAWALL SYSTEM UNKNOWN. CONTRACTOR MUST LOCATE AND SHORE EXISTING SYSTEM, IF NECESSARY, PRIOR TO INSTALLATION OF COMBI-WALL SYSTEM BEHIND EXISTING SEAWALL.
14. CONTRACTOR TO LOCATE EXISTING (IF ANY) TIE-RODS AND DEADMAN AT THE EXISTING SEAWALL WITHIN LIMITS OF WORK AND NOTIFY ENGINEER OF ANY CONFLICTS.
15. PILES AND SHEET PILES SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATION INDICATED:

PILE TYPE	SIZE	GRIDLINE LOCATION (SEE S-403 FOR REFERENCE	TIP ELEVATION (FT NAVD88)	SERVICE CAPACITY (TONS)*
SHEETPILE	AZ19-700	N/A	-29.0	N/A
KINGPILE	24" x 0.625"	N/A	-37.0	N/A
AUGER PILE AT KING PILES	18" DIA	1-5/E	-55.0	123.0/-143.0
		7-21/E	-45.0	40.0/-62.0
		22-27/E	-55.0	123.0/-143.0
		28-46/E	N/A	35.0/-32.0
AUGER PILE	18" DIA	1-5/H	-27.0	81.0
		2-2-27/H	-27.0	81.0
		7-21/G & F	-25.0	65.0/-13.0
		28-46/H & F	-22.0	31.0

*: POSITIVE VALUES = COMPRESSION, NEGATIVE VALUES = TENSION

AUGER-CAST PILING NOTES:

1. SUBMIT AN AUGER CAST PILE INSTALLATION PLAN IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 455.
2. THE VOLUME OF SOIL BROUGHT TO THE SURFACE DURING ADVANCEMENT OF THE AUGER SHALL BE LIMITED TO NO MORE THAN 1.75 CUBIC FEET PER FOOT LENGTH OF THE PILE.
3. PUMP GROUT THROUGH THE AUGER STEM AT A RATE SUFFICIENT TO MAINTAIN A HEAD OF AT LEAST 7 FEET ABOVE THE TIP OF THE AUGER.
4. DURING GROUTING OPERATIONS, THE AUGER SHALL BE CONTINUOUSLY WITHDRAWN AND SLOWLY ROTATED TO EXPEL THE SOILS IN THE FLIGHTS. SUFFICIENT GROUT SHALL BE MADE CONTINUOUSLY AVAILABLE TO ENABLE THE GROUTING OF EACH PILE TO BE PERFORMED FROM BOTTOM TO TOP.
5. VOLUME OF GROUT INTRODUCED INTO EACH PILE HOLE SHALL EXCEED THE THEORETICAL VOLUME OF THE EXCAVATED HOLE BY AT LEAST 30 PERCENT. RATE OF INTRODUCTION OF GROUT SHALL EXCEED THE THEORETICAL VOLUME BY AT LEAST 30 PERCENT, OR 2.3 CUBIC FEET PER FOOT OF PILE.
6. PILES SHALL NOT BE INSTALLED WITHIN A DISTANCE OF SIX PILE DIAMETERS OF ANY PILE CONSTRUCTED WITHIN THE PREVIOUS 24 HOURS.
7. THE OWNER WILL RETAIN A GEOTECHNICAL ENGINEER TO MONITOR PILE TESTING AND PRODUCTION PILE INSTALLATION.
8. MONITOR EXISTING STRUCTURES FOR MOVEMENT DURING DRILLING AS PER FDOT STANDARD SPECIFICATIONS SECTION 108. CONTRACTOR TO SUBMIT MONITORING PLAN TO ENGINEER FOR REVIEW.

CONCRETE AND REINFORCING STEEL

1. MATERIALS MUST CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
   A. CAST-IN-PLACE CONCRETE 5,500 psi (MIN, FDOT CLASS IV)
   B. PRECAST/PRESTRESSED CONCRETE 6,000 psi (MIN, FDOT CLASS V SPECIAL)
   C. ECONCRETE ADMIXTURE FOR PRECAST FACING PANELS
   D. HIGH STRENGTH LEVELING GROUT 8,000 psi (MIN.)
   E. LOW MOBILITY CEMENT (COMPACTION) GROUT 5,500 psi (MIN.) PER SPECIFICATION 03 62 16
   F. AUGER CAST PILING GROUT MIX 5,000 psi (MIN.)
2. ALL CONCRETE WORK MUST BE PERFORMED IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS, SECTIONS 346, 400, AND 415.
3. ALL CONCRETE MUST BE NORMAL WEIGHT WITH A MINIMUM DENSITY OF 145 PCF.
4. ALL CEMENT MUST CONFORM TO ASTM C 150, TYPE II FOR AN EXTREMELY AGGRESSIVE ENVIRONMENT, WITH SLAG OR FLY ASH. MAXIMUM W/C RATIO IS 0.41.
5. CONCRETE MUST CONTAIN CORROSION INHIBITING ADMIXTURE.
6. AGGREGATE MUST CONFORM TO ASTM C 33, NO. 57.
7. REINFORCING STEEL AND DOWELS MUST BE IN ACCORDANCE WITH ASTM A 615, GRADE 60 OR ASTM A706, GRADE 60 (U.O.N.). REINFORCING STEEL TO BE WELDED MUST BE ASTM A706, GRADE 60.
8. ENVIRONMENTAL CONDITION: EXTREMELY AGGRESSIVE, MINIMUM COVER TO REINFORCING STEEL MUST BE 3", UNLESS OTHERWISE NOTED.
9. CORNERS MUST BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED.
10. CONTRACTOR MUST REPAIR ALL SURFACE BLEMISHES IN CONCRETE WITHIN 24 HOURS AFTER FORM REMOVAL.
11. ALL CONCRETE WORK, PLACEMENT MEANS, AND METHODS MUST BE IN ACCORDANCE WITH ACI 304-10, 308R-16, 308.1-11 & 347R-14.
12. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL MUST CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315-99. REINFORCING STEEL SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED PRIOR TO USE IN CONSTRUCTION.
13. ALL CONSTRUCTION JOINTS BETWEEN CAST IN PLACE CONCRETE AND BETWEEN PRECAST TO CAST IN PLACE CONCRETE TO BE CLEANED WITH A ROUGHENED SURFACE OF 1/4" AMPLITUDE AND BONDED WITH EPOXY BONDING AGENT.
14. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCING ARE CENTER TO CENTER LINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.
15. METAL CHAIRS ARE NOT ALLOWED AND NO METAL MUST PROTRUDE FROM SURFACE OF THE CONCRETE.
16. CURE CONCRETE USING CONTINUOUS MOISTURE IN ACCORDANCE WITH FDOT SPECIFICATION 400-16.1 AND 400-16.2.
17. ALL REINFORCING BAR SPLICES AND HOOKS MUST BE IN ACCORDANCE WITH ACI 318 UNLESS OTHERWISE INDICATED. ALL WELDING OF REINFORCING STEEL MUST CONFORM TO AWS D1.4. SEE TABLE FOR MINIMUM APPROVED ACI LAP SPLICE LENGTHS.

STRUCTURAL AND MISCELLANEOUS STEEL

1. ALL STEEL WORK MUST BE PREFORMED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
2. ALL STRUCTURAL STEEL SHAPES, PLATE, BARS, FABRICATIONS, BOLTS AND ALL HARDWARE EXCEPT STAINLESS STEEL MUST BE ZINC-COATED OR GALVANIZED BY THE HOT-DIPPING PROCESS IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A123 AND/OR A153 AS APPLICABLE; AFTER FABRICATION, UNLESS OTHERWISE NOTED.
3. FIELD TREAT DAMAGED GALVANIZED FINISH WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT, COLD GALVANIZING COMPOUNDS, OR APPROVED EQUAL CONFORMING TO THE REQUIREMENTS OF ASTM A780. IN ADDITION, ALL EXPOSED THREADED SURFACES MUST BE PAINTED WITH TWO COATS OF HIGH ZINC DUST OXIDE PAINT AFTER INSTALLATION OF NUT.

WELDING

1. STRUCTURAL WELDING MUST BE PERFORMED BY AWS CERTIFIED WELDERS.
2. WELDS MUST BE VISUALLY INSPECTED BY AWS CERTIFIED WELDING INSPECTORS.
3. WELDED CONNECTIONS MUST BE PRE-QUALIFIED IN ACCORDANCE WITH AWS D1.1 AND MADE USING THE SHIELDED METAL ARC PROCESS (OR ENGINEER APPROVED EQUAL) WITH ELECTRODES CONFORMING TO E70XX.

COMBINATION WALL SYSTEM

1. STEEL USED FOR THE COMBINATION WALL SYSTEM MUST BE HEAVY GAUGE HOT-ROLLED SECTION WITH FULL INTERLOCKING SHEETS CONFORMING TO ASTM A572, GRADE 60 (FY=60 KSI) WITH A MINIMUM 3/8" THICKNESS. UNLESS OTHERWISE NOTED.
2. STEEL SHEET AND KING PILE ELEMENTS OF THE COMBINATION WALL SYSTEM MUST BE DRIVEN TO THE MINIMUM TIP ELEVATION INDICATED ON THE DRAWINGS USING A HAMMER OF AN APPROVED TYPE, WITH A CAPACITY AT LEAST EQUAL TO THE HAMMER MANUFACTURER'S RECOMMENDATION FOR THE TOTAL WEIGHT OF THE PILING SYSTEM AND CHARACTERISTICS OF SUBSURFACE MATERIAL TO BE ENCOUNTERED.
3. CONTRACTOR MUST VERIFY COORDINATES & GEOMETRY PRIOR TO DRIVING STEEL PILES FOR THE COMBINATION WALL SYSTEM.

STEEL

MATERIALS

a. STEEL SHEET PILING AND PIPE PILING	ASTM A572, GRADE 60
b. STEEL PIPE PILES	ASTM A252, GRADE 2 MODIFIED ASTM A572, GR 60
c. STAINLESS PLATES, ANGLES, GRATING, BARS, FABRICATIONS, HARDWARE	ASTM A276, TYPE 316L
d. STAINLESS HEX HEAD BOLTS	ASTM A193, A320, F593, TYPE 316L
e. STAINLESS NUTS	ASTM F594, TYPE 316L
f. STAINLESS STANDARD FLAT WASHERS	ASTM F844, TYPE 316L
g. THREADED ANCHOR BOLTS	ASTM F1554 GR.55, HDG, UON
h. COLD ROLLED THREADED BARS	ASTM A615, GRADE 80
i. STAINLESS STEEL GRATING	ASTM A666, TYPE 304 (OGI 11-SGSS-4., 1-1/2x3/16 WITH 67% OPEN AREA AND SERRATED BARS, OR SIMILAR APPROVED)
j. SCREWS FOR TIMBER DECKING	ASTM F837 STAINLESS STEEL

STEEL PILES

1. A GEOTECHNICAL ENGINEER MUST MONITOR PILE INSTALLATION FOR THE OWNER. THEY MUST PERFORM PDA TESTING AS INDICATED IN THE SPECIFICATIONS. CONTRACTOR MUST PREPARE THE PILES FOR THE GEOTECHNICAL ENGINEER TO MAKE THE APPROPRIATE CONNECTIONS TO MONITORING EQUIPMENT. CONTRACTOR TIME, EQUIPMENT AND MATERIALS NECESSARY FOR THE PDA TESTING MUST BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF THE PILES.
2. THE GEOTECHNICAL ENGINEER MUST MAKE RECOMMENDATIONS FOR CONCRETE FILLING OF KING PILES WHERE PILE DRIVING LOGS AND PDA RECORDS INDICATED THE NEED.

TIMBER CONSTRUCTION

1. ALL TIMBER CONSTRUCTION MUST CONFORM TO THE RECOMMENDATIONS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION.
2. TIMBER RELATED MATERIALS MUST CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:
   A. STRINGERS AND MISC TIMBER: SP NO. 1 DENSE (S4S)
   B. TIMBER DECKING: THERMALLY MODIFIED WOOD DECKING
3. SECURE DECKING TO SUBSTRUCTURE WITH STAINLESS STEEL WOOD DECKING SCREWS. DECKING MUST BE PRE-DRILLED AND THE SCREWS MUST BE COUNTERSUNK.
4. WHEN CONNECTING HARDWARE AS SHOWN ON DRAWINGS, THE TYPE, SIZE, SPACING, AND ALIGNMENT ARE CRITICAL AND MUST BE MAINTAINED. DO NOT UNDERCUT WOOD. CONNECTIONS MUST PULL AND HOLD MEMBERS BEING JOINED INTO CLOSE CONTACT.

CLASS "B" LAP SPLICE LENGTH (FT)

BAR SIZE	VERTICAL BARS & BEAM BOTTOM BARS	ALL OTHER BARS
#3	14"	18"
#4	18"	23"
#5	22"	29"
#6	27"	35"
#7	49"	63"
#8	56"	72"
#9	63"	81"
#10	70"	91"
#11	78"	101"

1. LAP LENGTHS AND DEVELOPMENT LENGTHS SHOWN ARE BASED ON f'c= 5,000 PSI AND Fy= 60 KSI.
2. LAP SPLICES TO BE CLASS B WITH NOT MORE THAN 50% (ONE HALF) OF THE TOTAL REINFORCEMENT SPLICED WITHIN THE REQUIRED LAP LENGTH. STAGGER SPLICES LENGTH OF SPLICE OR 6" MINIMUM.
3. "CLASS B" LAP SPLICE LENGTH IS 1.3xDEVELOPMENT LENGTH OF BARS.

NOT FOR CONSTRUCTION

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 1.02.62.022

REVISIONS:

SCALE:

DRAWING NAME:
GENERAL STRUCTURAL NOTES

Ref. North

DRAWING NUMBER:
S-001

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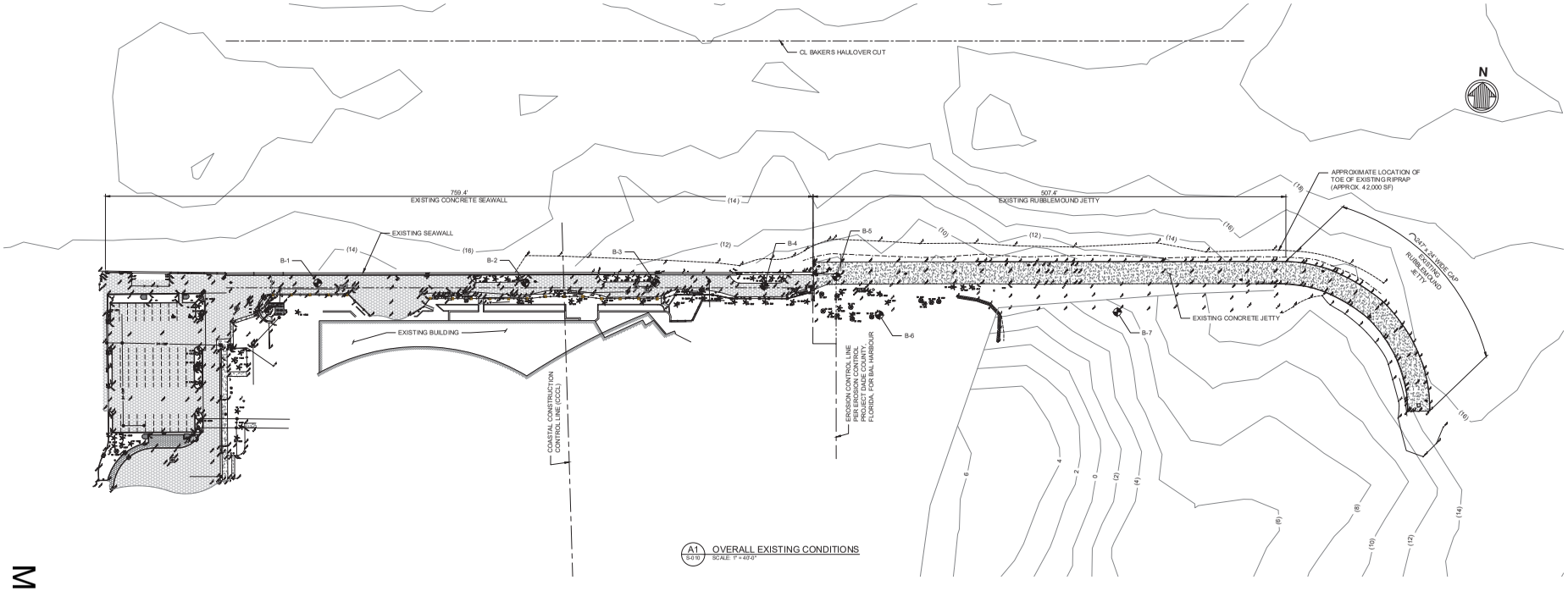

A1 S-010 OVERALL EXISTING CONDITIONS
SCALE: 1" = 40'-0"

LEGEND:

B-# BORING HOLE NUMBER

APPROXIMATE BORING HOLE LOCATION

40' 0' 40' 80'
SCALE: 1"=40'

MDC043

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DATE: 10/26/2022

REVISIONS:

SCALE:

DRAWING NAME:
EXISTING CONDITIONS

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DRAWING NUMBER:
S-010

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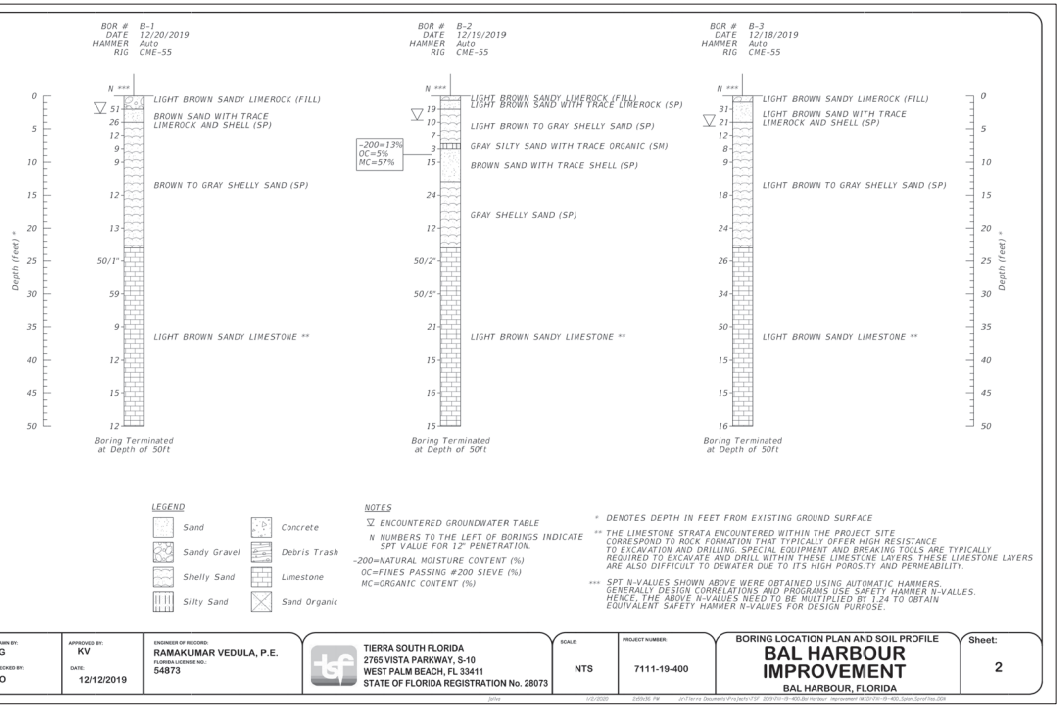

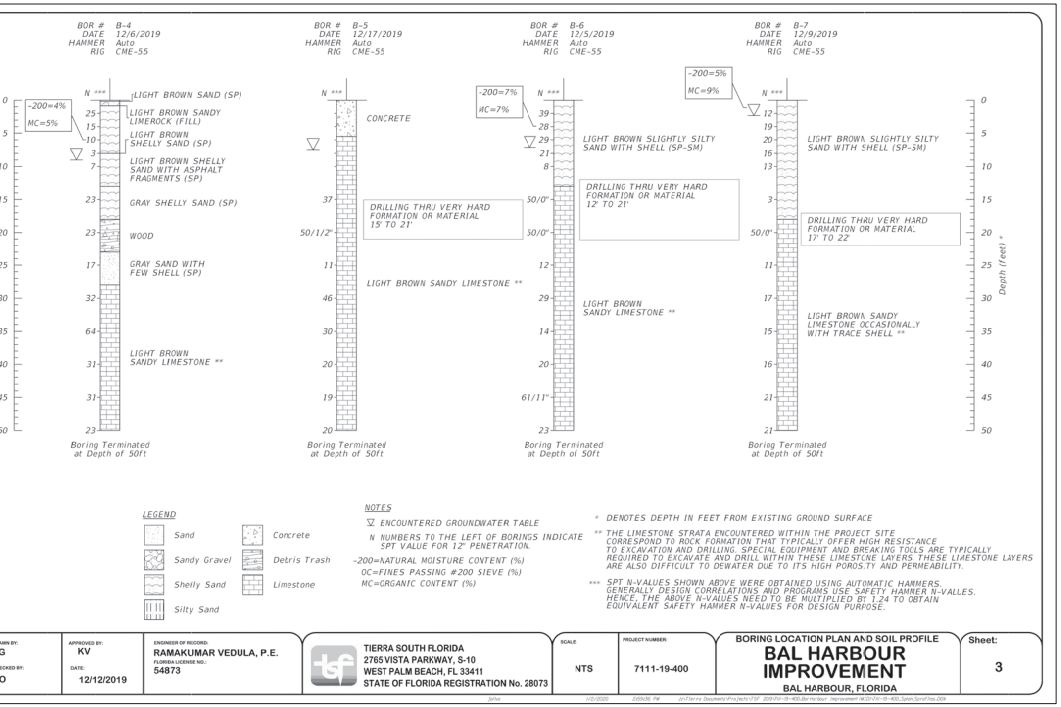

MDC044

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DATE: 10/26/2022

REVISIONS:

SCALE:

DRAWING NAME:
BORING LOGS

Ref: North

DRAWING NUMBER:
S-011

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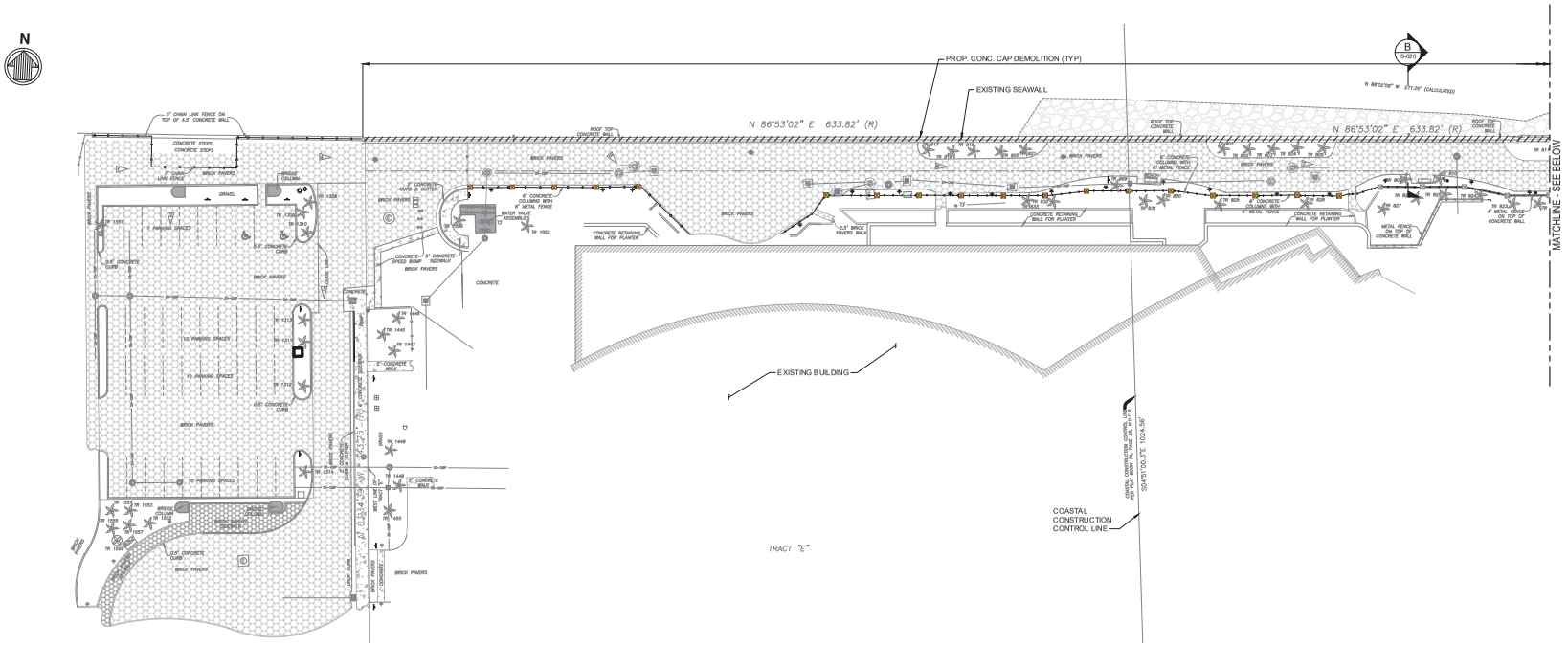
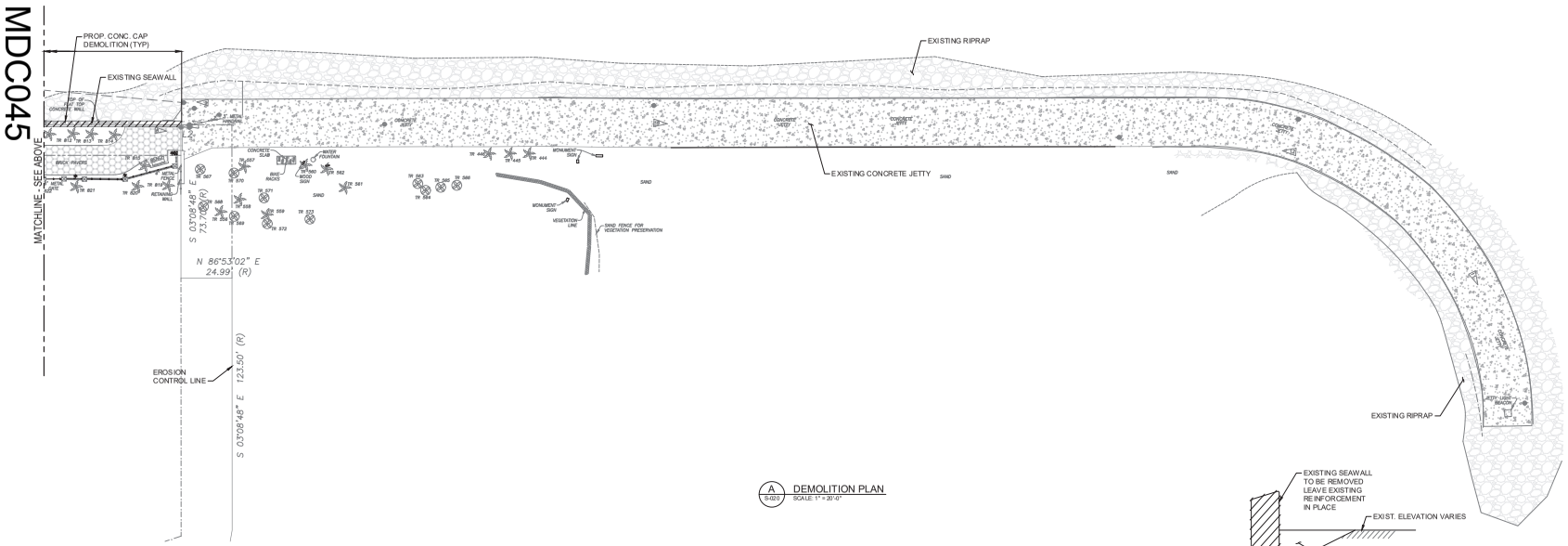
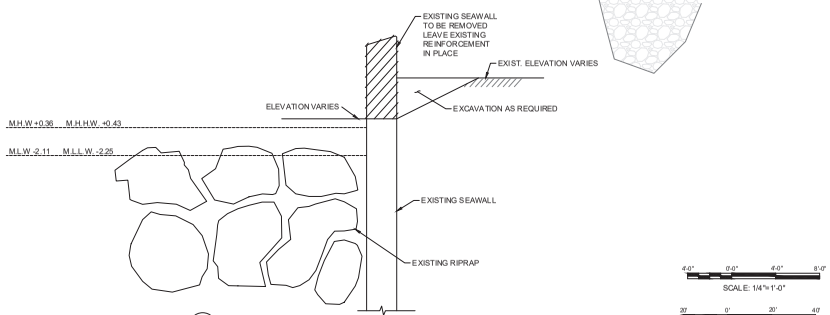




A S-020 DEMOLITION PLAN
SCALE: 1" = 20'-0"



B S-020 DEMOLITION SECTION
SCALE: 1/4"=1'-0"

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

SCALE: 1"= 20'

DEMOLITION NOTES:

DEMOLISH EXISTING

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DATE: 10/26/2022

REVISIONS:

SCALE:

DRAWING NAME:
DEMOLITION PLAN

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S-020

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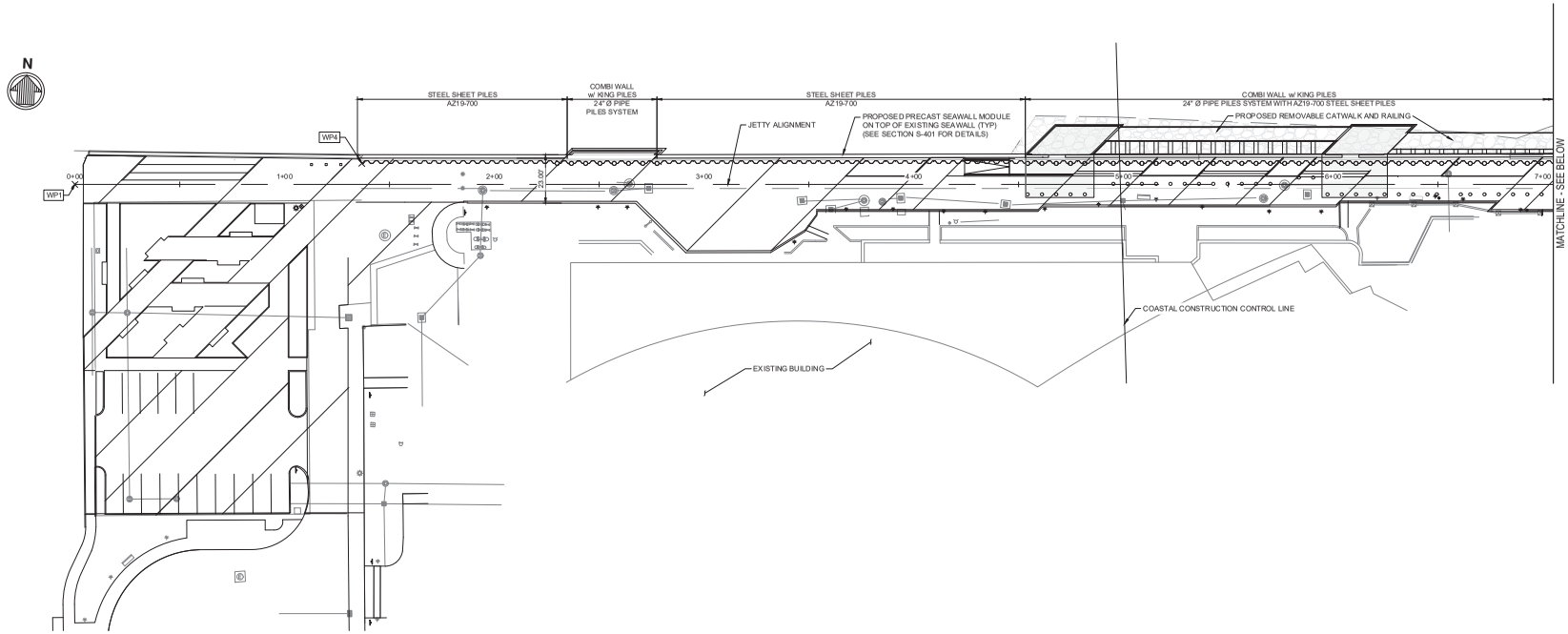

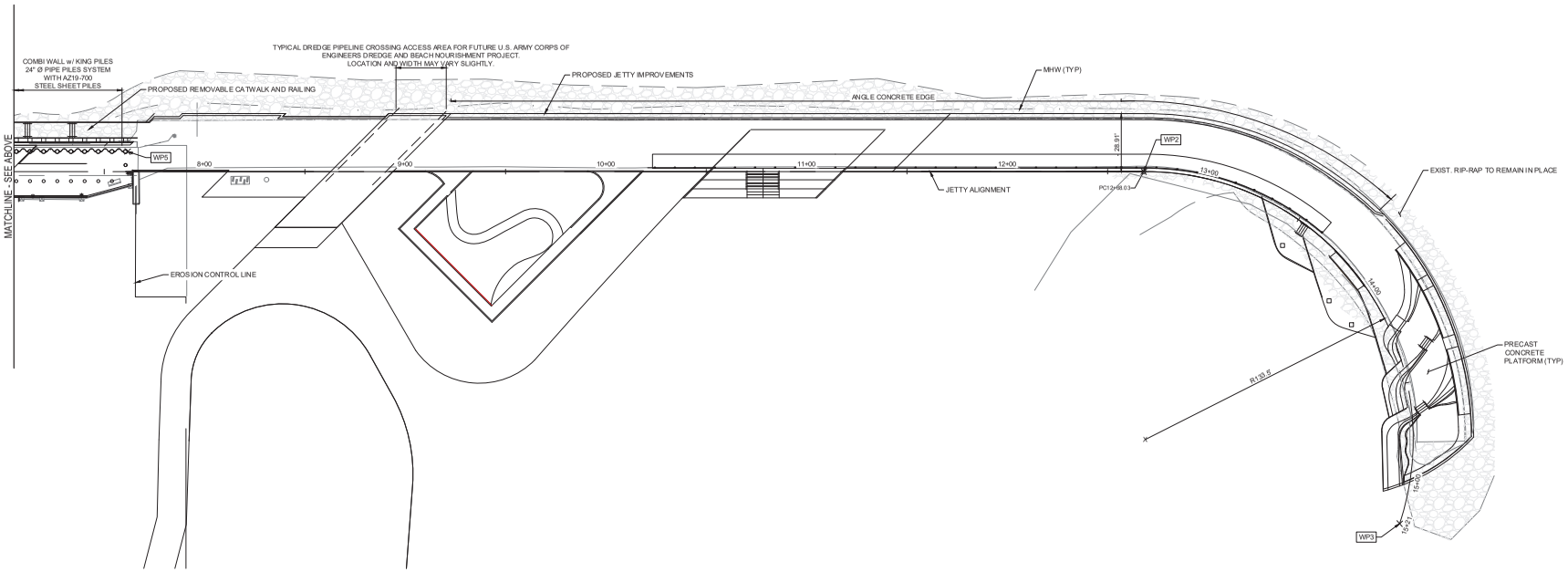

A S-101 OVERALL SITE PLAN
SCALE: 1"=20'

SCALE : 1"=20'

MDC046

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

SCALE:

DRAWING NAME:
OVERALL PLAN OF IMPROVEMENTS

Ref. North

DRAWING NUMBER:
S-101

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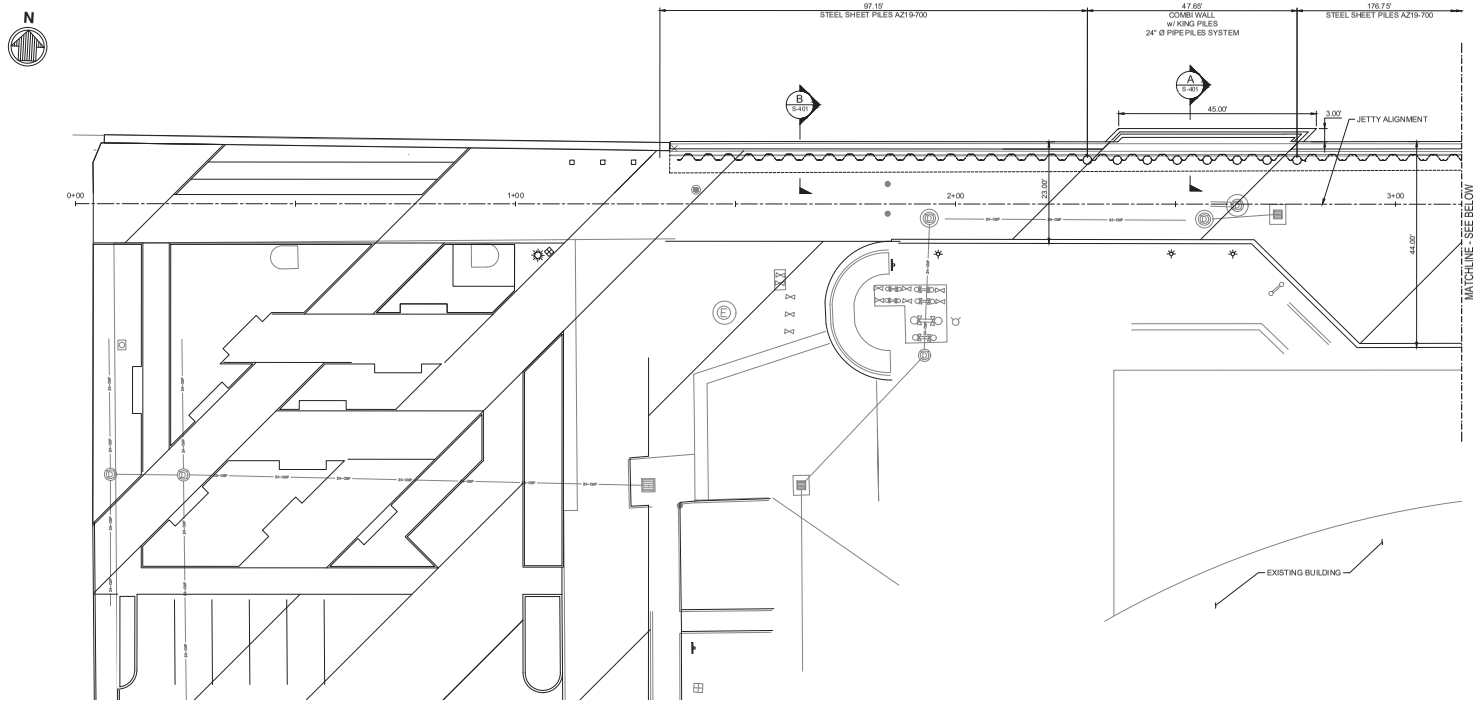

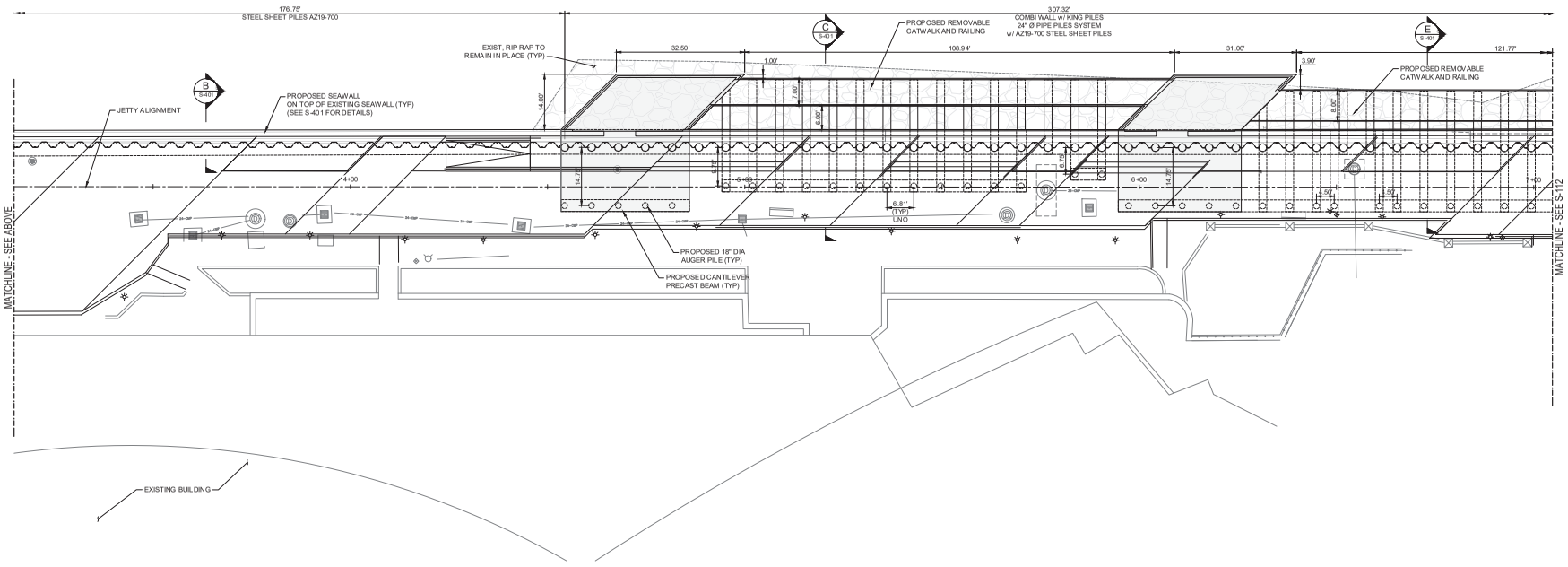

A S-111 PARTIAL SITE PLAN (WEST)
SCALE: 1"=10'

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

MDC047

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

SCALE:

DRAWING NAME:
SITE PLAN (1 OF 2)

Ref. North

DRAWING NUMBER:

S-111

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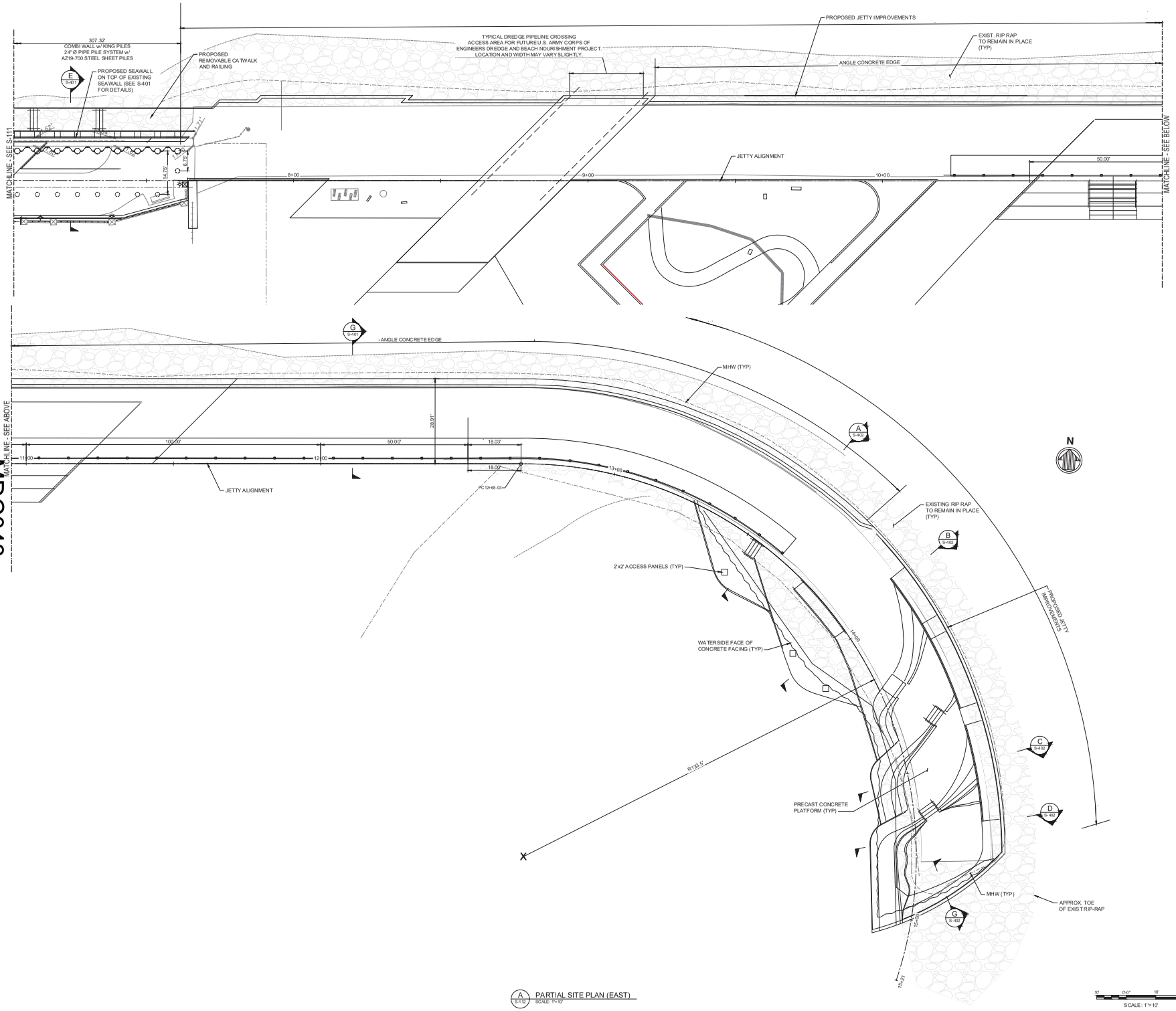

A S-112 PARTIAL SITE PLAN (EAST)
SCALE: 1"=10'

SCALE : 1"= 10'

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

SCALE:

DRAWING NAME:
SITE PLAN (2 OF 2)

Ref. North

DRAWING NUMBER:
S-112

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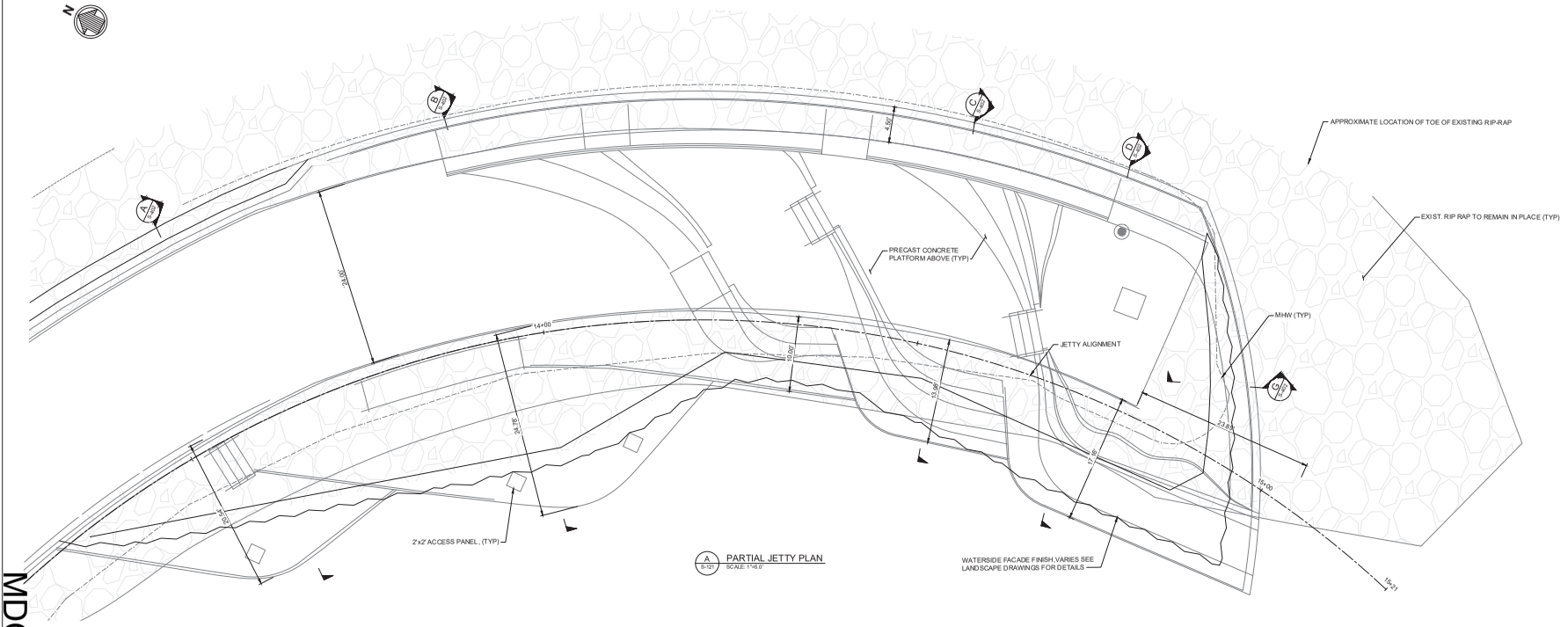

A S-121 PARTIAL JETTY PLAN
SCALE: 1"=5'-0"

0 5' 10'
SCALE: 1"=5'

MDC049

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File: G:\MKK\2019\05\01_CAD\1_Active\1_Bal Harbor Jetty\2019501-121; Plotted: 10/24/2022 2:16 AM by THOMSEN, KARINA; Sheet: 10/13/2022 2:44 AM by KTHOMSEN

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30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

SCALE:

DRAWING NAME:
PARTIAL JETTY PLAN

DRAWING NUMBER:
S-121

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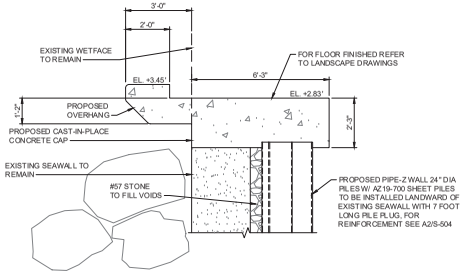
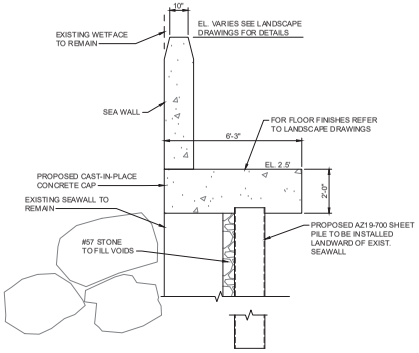
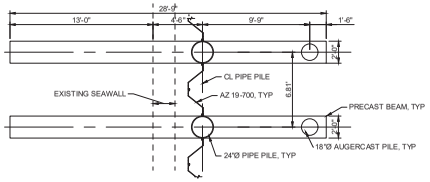


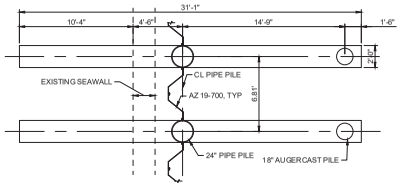
A S-111 SEAWALL SECTION
SCALE: 1/2" = 1'-0"



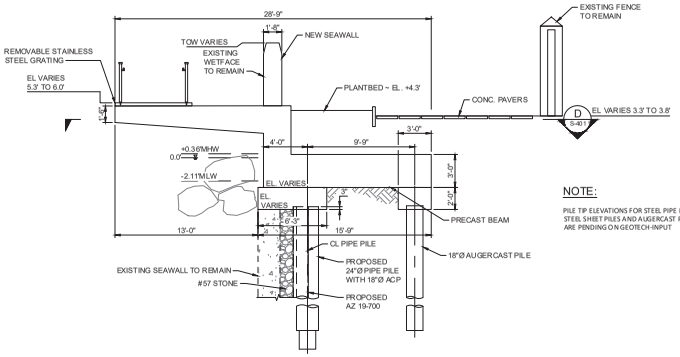
B S-111 SEAWALL SECTION
SCALE: 1/2" = 1'-0"



D S-401 PLAN VIEW FOR CATWALK BEAMS
SCALE: 1/4" = 1'-0"



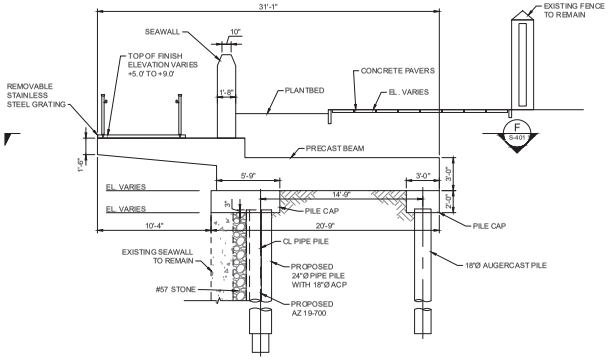
F S-401 PLAN VIEW FOR CATWALK BEAMS
SCALE: 1/4" = 1'-0"



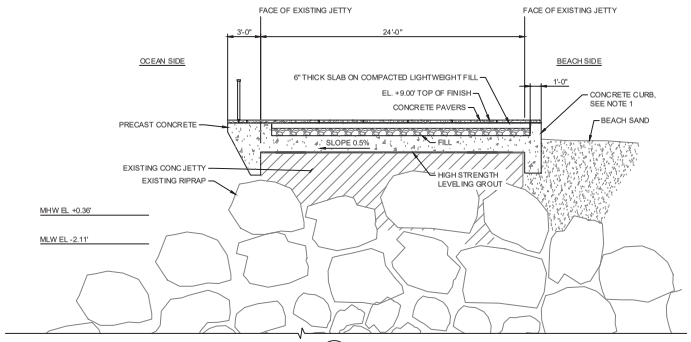
C S-111 SECTION ALONG GRIDLINE E
SCALE: 1/4" = 1'-0"

NOTE:

PILE TIP ELEVATIONS FOR STEEL PIPE PILES, STEEL SHEET PILES AND AUGERCAST PILE ARE PENDING ON GEOTECH-INPUT



E S-111 ELEVATION BEAMS AT GRIDLINES 7-18
SCALE: 1/4" = 1'-0"
S-112



G S-112 JETTY SECTION
SCALE: 1/4" = 1'-0"

NOTE:

1. CONCRETE WIDTH TO BE MIN 3'-0" x 3'-0" AT CANOPY POST LOCATIONS, FOR DETAILS AND RBINFORCEMENT, SEE DRAWING S-506.

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

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

MDC050

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

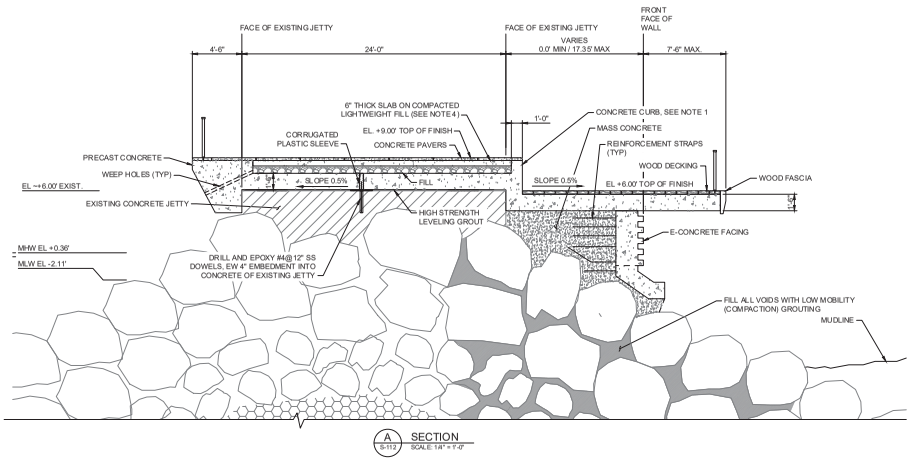
SCALE:

DRAWING NAME:
SECTIONS & DETAILS

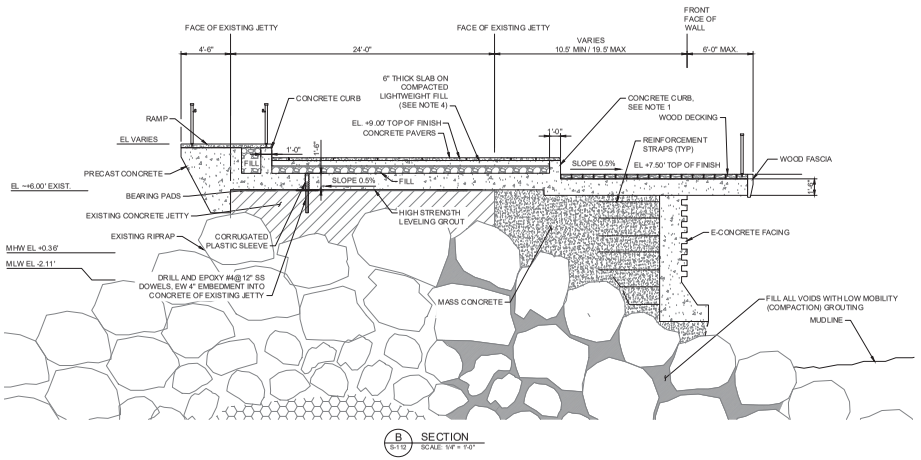
Ref. North

DRAWING NUMBER:
S-401

NOT FOR CONSTRUCTION



A S-112 SECTION
SCALE: 1/4" = 1'-0"



B S-112 SECTION
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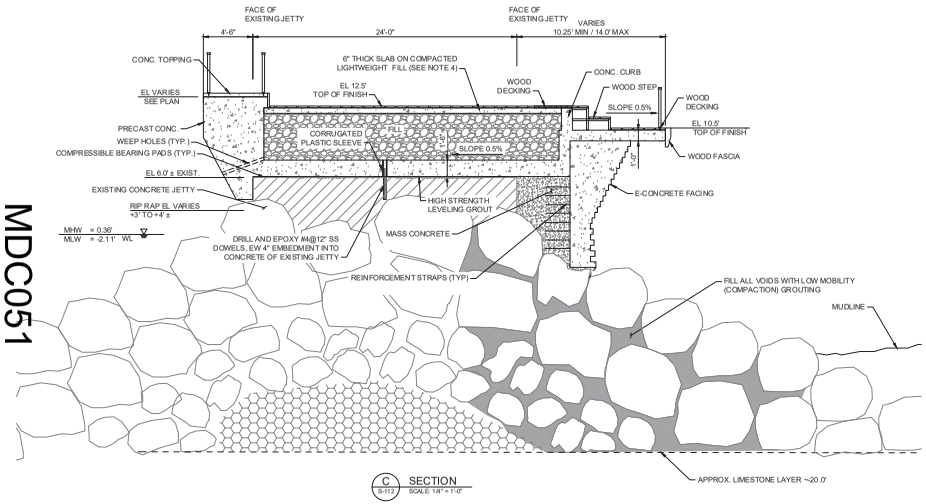
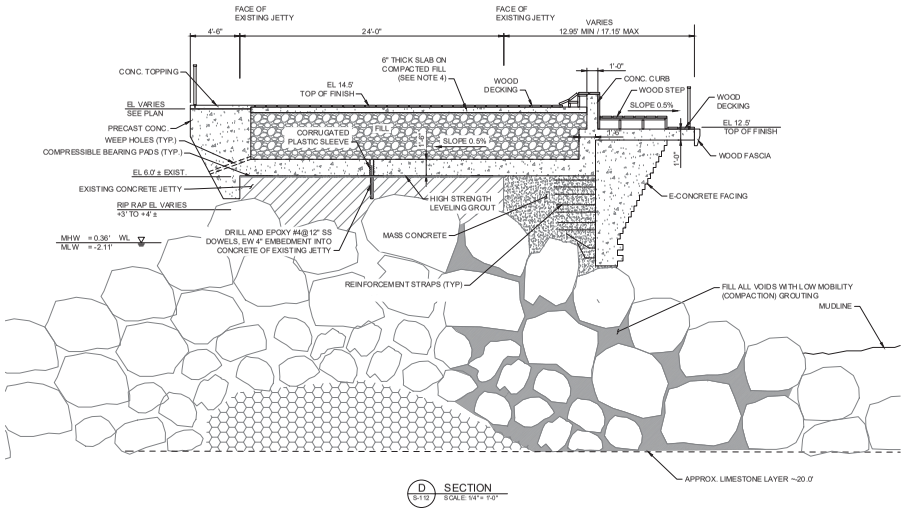
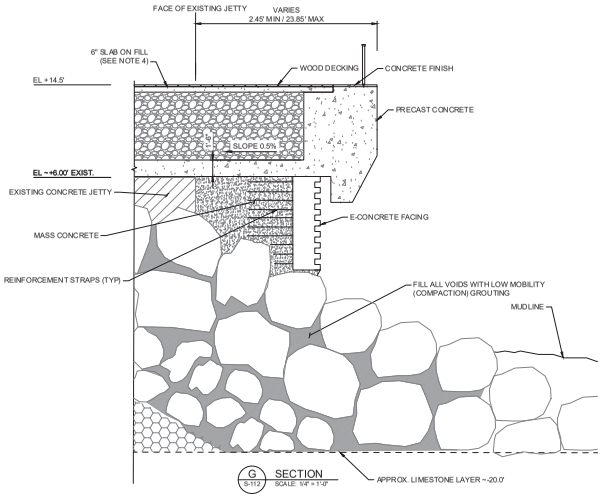


C S-112 SECTION
SCALE: 1/4" = 1'-0"



D S-112 SECTION
SCALE: 1/4" = 1'-0"



G S-112 SECTION
SCALE: 1/4" = 1'-0"

NOTES:

1. CONCRETE WIDTH TO BE MIN 3'-0" x 3'-0" AT CANOPY POST LOCATIONS, FOR DETAILS AND REINFORCEMENT SEE DRAWING S-506.
2. JOINTS IN PRECAST ELEMENTS TO BE COORDINATED WITH ARCHITECTURAL FINISHES.
3. 6" CONCRETE SLAB ON FILL TO BE REINFORCED WITH WWF 6x6 - W1.4/W1.4.

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

MDC051

File: G:\Mkl\2019\9013.00 CAD\1_Active\1_Bal Harbor #41\1_2019013--402--Option 1c.rvt Printed: 10/24/2022 8:17 AM by RHOMSEN, KARINA; Saved: 10/5/2022 10:04 AM by RHOMSEN

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moffatt & nichol

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

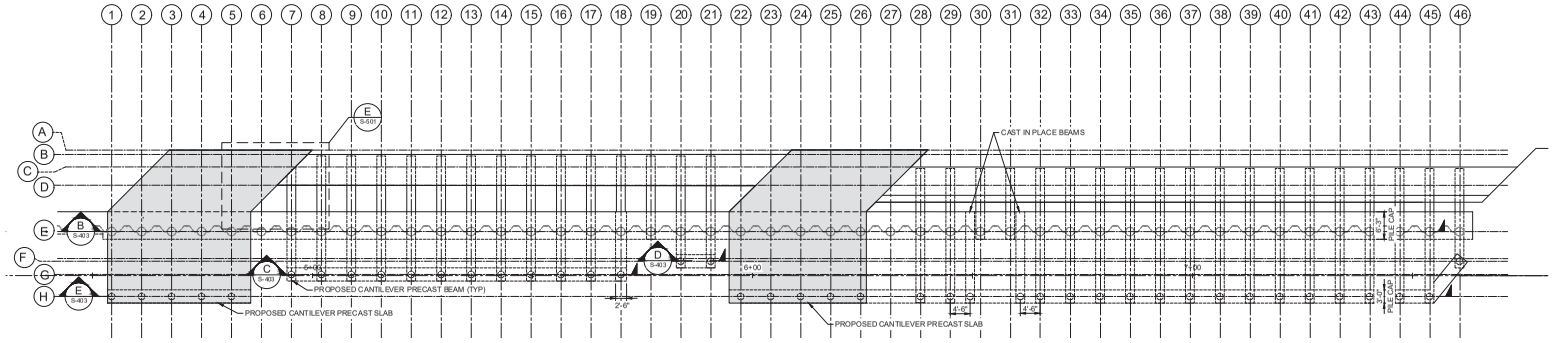
REVISIONS

SCALE:

DRAWING NAME:
JETTY SECTIONS

DRAWING NUMBER:
S-402

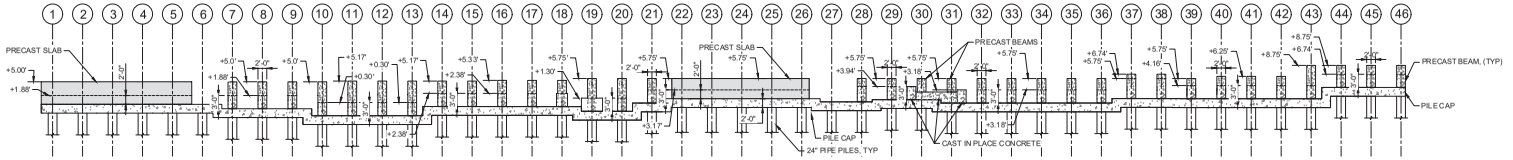
NOT FOR CONSTRUCTION



A S-403 PLAN VIEW FOR CATWALK BEAMS
SCALE: 1" = 10'

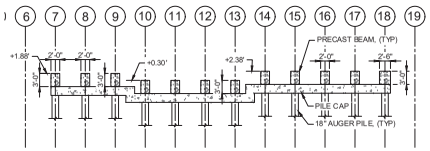
LEGEND:

(44) PILE BENT NUMBER

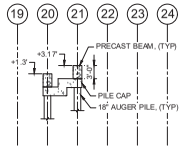


B S-111 SECTION ALONG GRIDLINE E
SCALE: 1" = 10'

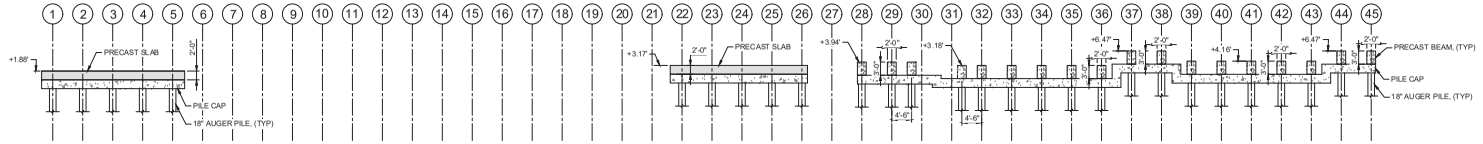
MDC052



C S-403 SECTION ALONG GRIDLINE G
SCALE: 1" = 10'



D S-403 SECTION ALONG GRIDLINE F
SCALE: 1" = 10'



E S-403 SECTION ALONG GRIDLINE H
SCALE: 1" = 10'

SCALE: 1"=10'

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moffatt & nichol

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10.26.2022

REVISIONS

SCALE

DRAWING NAME:

PLAN VIEW & SECTIONS FOR CATWALKS

DRAWING NUMBER:

S-403

NOT FOR CONSTRUCTION

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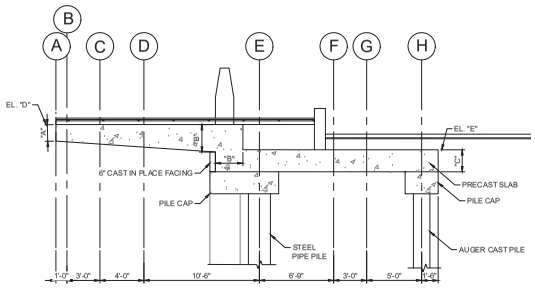
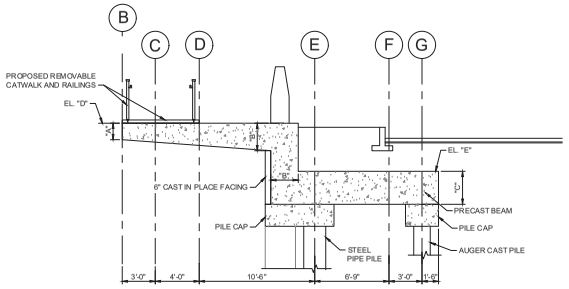
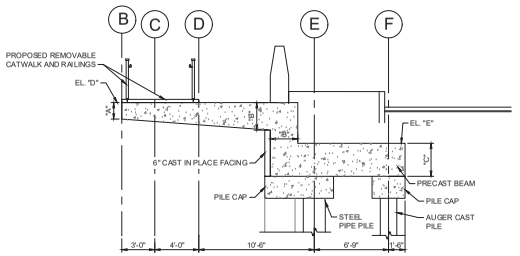


A S-404 SECTION PRECAST SLAB BETWEEN GRIDLINES 1-5 & 22-26
SCALE:1 /4" = 1'-0"

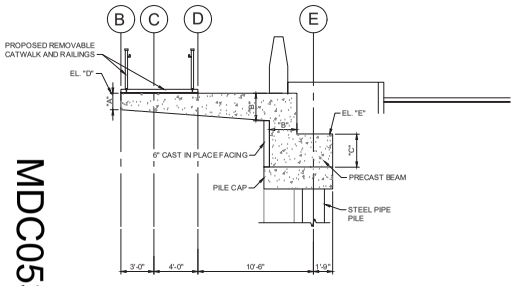


B S-404 ELEVATION BEAMS AT GRIDLINES 7-18
SCALE: 1/4" = 1'-0"

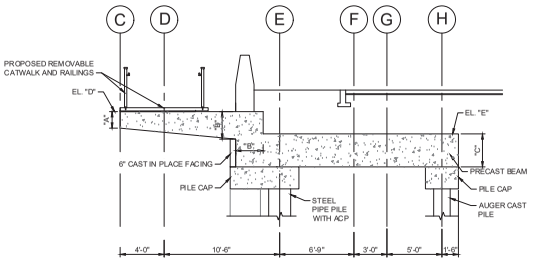


C S-404 ELEVATION BEAMS AT GRIDLINES 20-21 & 46
SCALE: 1/4" = 1'-0"

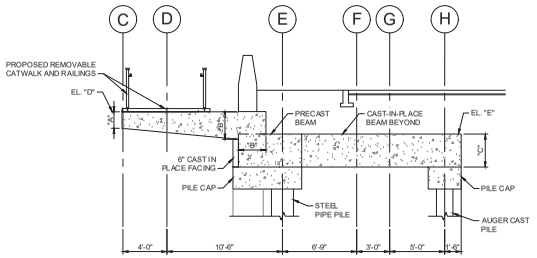
MDC053



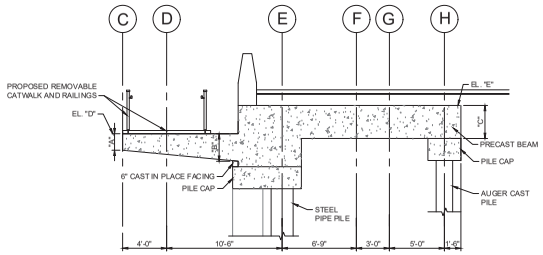
D S-404 ELEVATION BEAM AT GRIDLINE 19
SCALE: 1/4" = 1'-0"



E S-404 ELEVATION BEAMS AT GRIDLINE 28-29, 32-36 & 39-45
SCALE: 1/4" = 1'-0"



F S-404 ELEVATION BEAMS AT GRIDLINES 30 & 31
SCALE: 1/4" = 1'-0"



G S-404 ELEVATION BEAMS AT GRIDLINES 37 & 38
SCALE: 1/4" = 1'-0"

Gridline	Beam Width [inch]	Height "A" [inch]	Height "B" [inch]	Height "C" [inch]	Elevation "D" [ft]	Elevation "E" [ft]
1-5	N/A	18	30	24	5.00	1.88
7-9	24	18	30	36	5.00	1.88
10	24	18	30	36	5.00	0.30
11-13	24	18	30	36	5.17	0.30
14-15	24	18	30	36	5.17	2.38
16-17	24	18	30	36	5.33	2.38
18	24/30	18	30	36	5.33	2.38
19	24	18	30	N/A	5.75	N/A
20	24	18	30	36	5.75	1.30
21	24	18	30	36	5.75	3.17
22-26	N/A	18	30	24	5.75	3.17
28-30	24	18	30	36	5.75	3.94
31-36	24	18	30	36	5.75	3.18
37-38	24	18	30	36	5.75	6.74
39	24	18	30	36	6.25	4.16
40-42	24	18	30	36	5.75	4.16
43	24	18	30	36	8.75	4.16
44-45	24	18	30	36	8.75	6.74

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

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moffatt & nichol

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

SCALE:

DRAWING NAME:
ELEVATIONS &
SECTIONS FOR
CATWALKS

DRAWING NUMBER:
S-404

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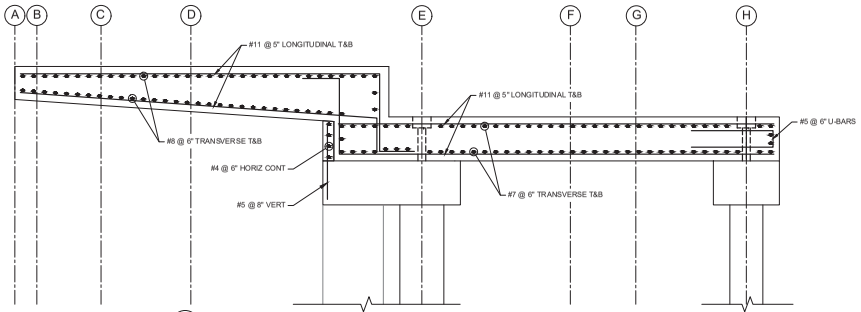
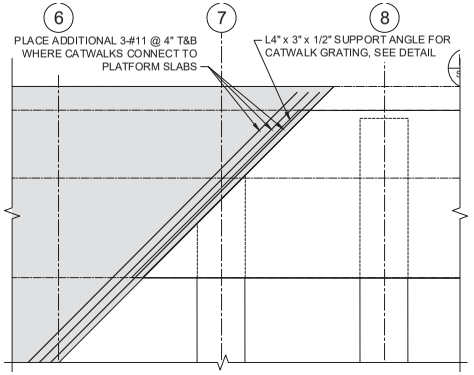


A S-501 SECTION PRECAST SLAB BETWEEN GRIDLINES 1-5 & 22-26
SCALE: 1/2" = 1'-0"



E S-501 DETAIL
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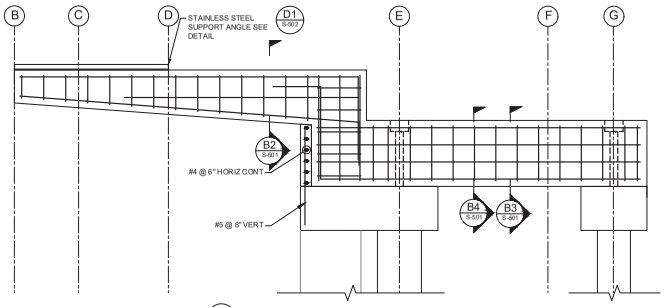
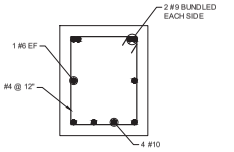
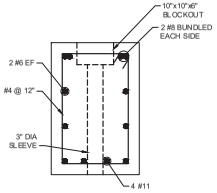


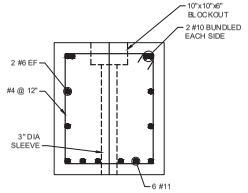
B S-501 ELEVATION BEAMS AT GRIDLINE 7 - 18
SCALE: 1/2" = 1'-0"



B2 S-501 SECTION
SCALE: 1" = 1'-0"



B3 S-501 SECTION
SCALE: 1" = 1'-0"



B4 S-501 SECTION AT GRIDLINE 18
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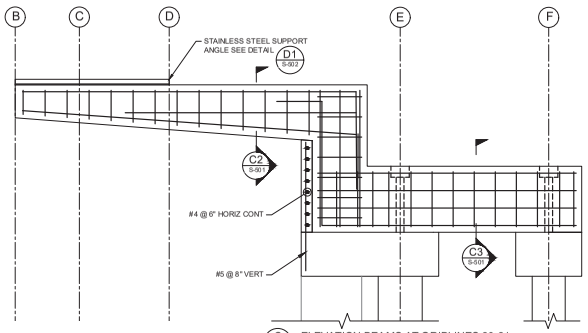
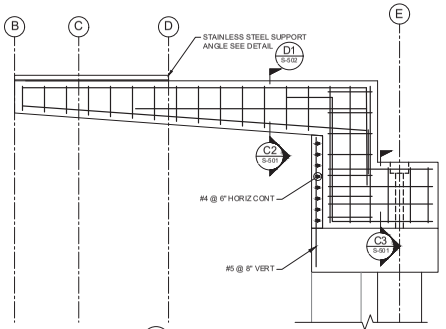
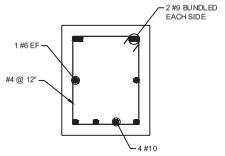


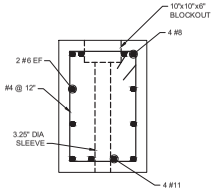
C S-501 ELEVATION BEAMS AT GRIDLINES 20-21
SCALE: 1/2" = 1'-0"



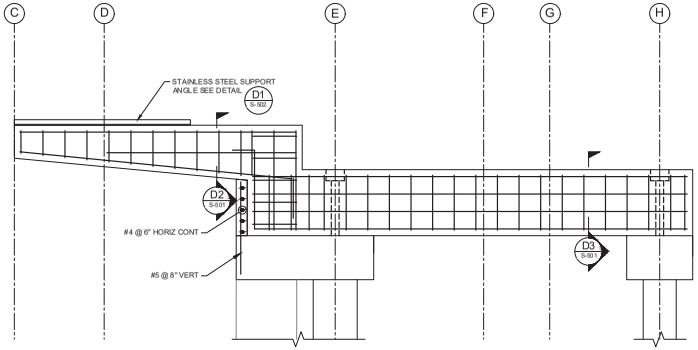
C1 S-501 ELEVATION BEAM AT GRIDLINE 19
SCALE: 1/2" = 1'-0"



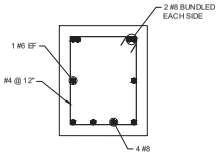
C2 S-501 SECTION
SCALE: 1" = 1'-0"



C3 S-501 SECTION
SCALE: 1" = 1'-0"



D S-501 ELEVATION BEAMS AT GRIDLINES 28-29, 32-36 & 39-45
SCALE: 1/2" = 1'-0"



D2 S-501 SECTION
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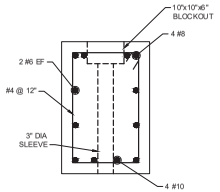

D3 S-501 SECTION
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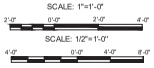

MDC054

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moffatt & nichol

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10.26.2022

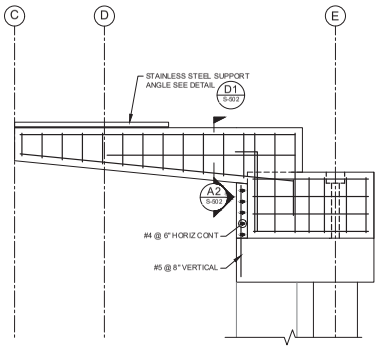
REVISIONS:

SCALE:

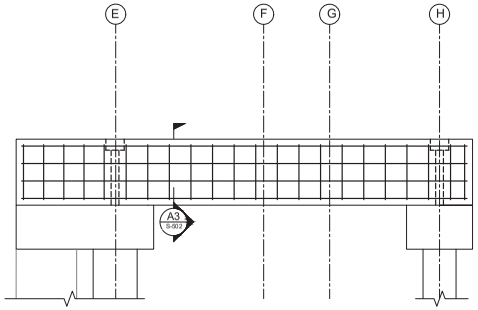
DRAWING NAME:
REINFORCEMENT DETAILS FOR CATWALKS (1 OF 2)

DRAWING NUMBER:
S-501

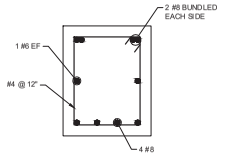
NOT FOR CONSTRUCTION



A S-502 ELEVATION BEAMS AT GRIDLINES 30 & 31
SCALE: 1/2" = 1'-0"



A1 S-502 ELEVATION CAST-IN-PLACE BEAM BEYOND
SCALE: 1/2" = 1'-0"



A2 S-502 SECTION
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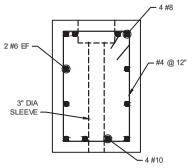
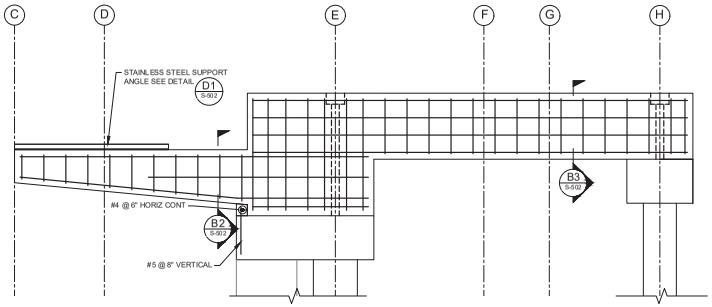
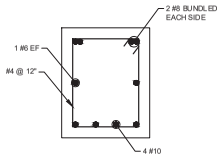


A3 S-502 SECTION
SCALE: 1" = 1'-0"



B S-502 ELEVATION BEAMS AT GRIDLINES 37 -38
SCALE: 1/2" = 1'-0"



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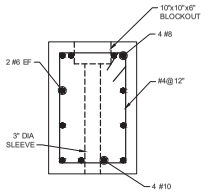

B3 S-502 SECTION
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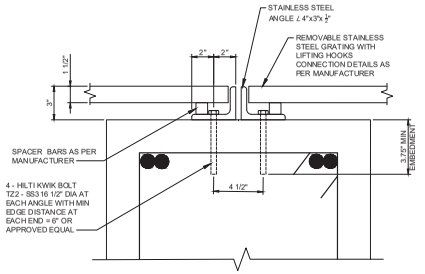

D1 S-502 DETAIL STAINLESS STEEL SUPPORT ANGLE FOR STAINLESS STEEL GRATING
SCALE: 3" = 1'-0"

MDC055

File: G:\MIA\2019\9013.00 CAD\1_Archive\1_Bal Harbor Arch\9013-S02- Printed: 10/24/2022 9:28 AM by: THOMSEN, KARINA; Saved: 9/5/2022 10:49 AM by: THOMSEN

0" 0'-0" 3" 6"
SCALE: 3"=1'-0"

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

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

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MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

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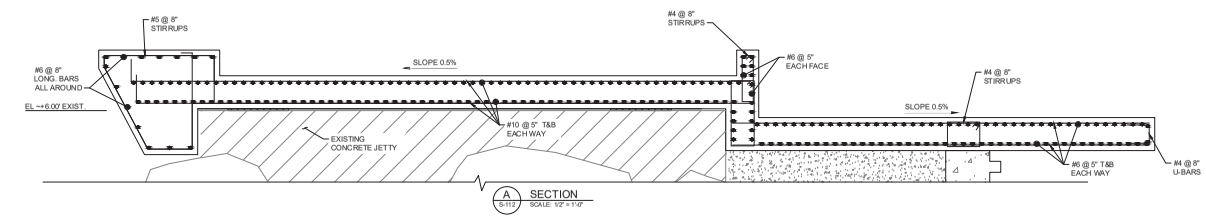
REVISIONS:

SCALE:

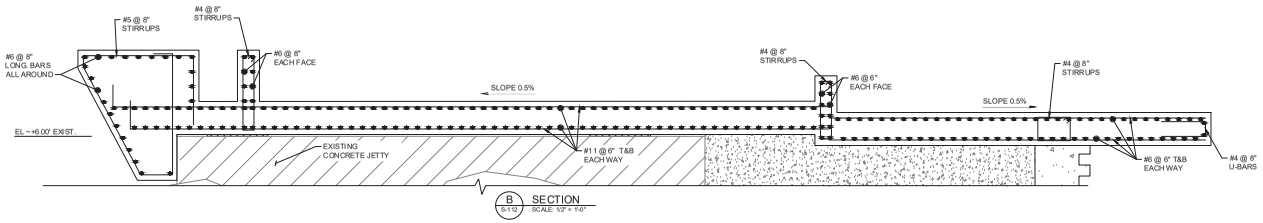
DRAWING NAME:
REINFORCEMENT DETAILS FOR CATWALKS (2 OF 2)

DRAWING NUMBER:
S-502

NOT FOR CONSTRUCTION

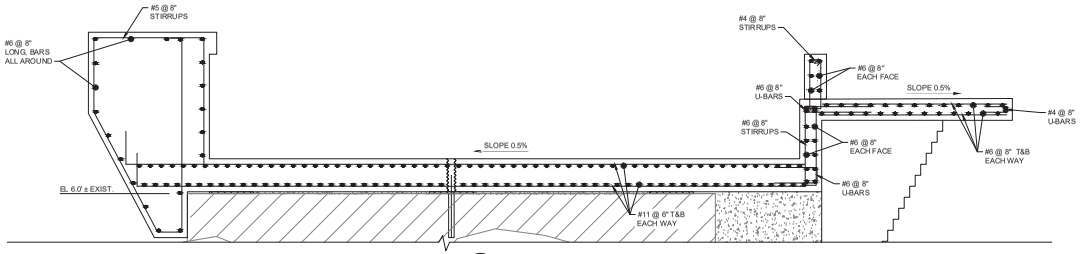


A S-112 SECTION
SCALE: 1/2" = 1'-0"



B S-112 SECTION
SCALE: 1/2" = 1'-0"

MDC056



C S-112 SECTION
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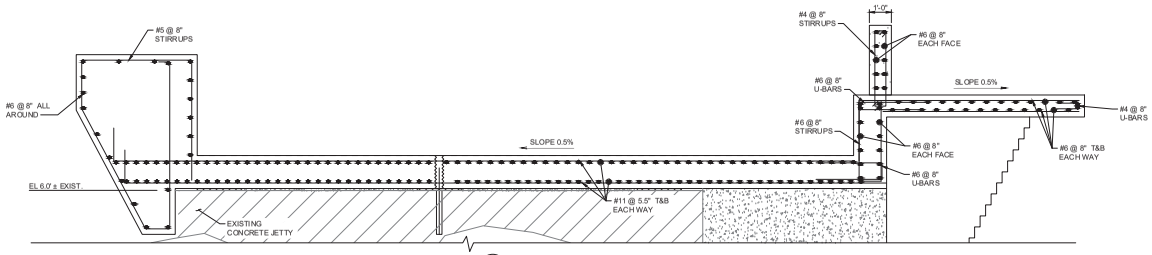
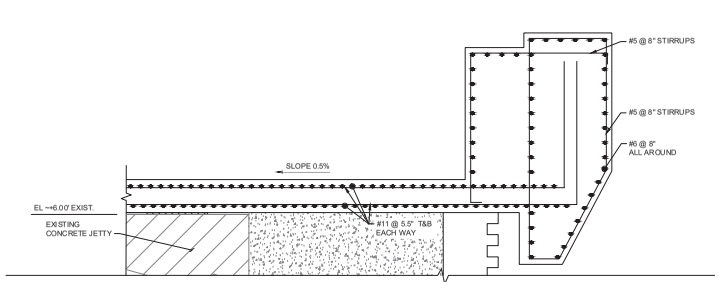


D S-112 SECTION
SCALE: 1/2" = 1'-0"



G S-112 SECTION
SCALE: 1/2" = 1'-0"

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

NOT FOR CONSTRUCTION

S-503

DRAWING NUMBER:

REINFORCEMENT DETAILS JETTY SLABS

DRAWING NAME:

SCALE:

REVISIONS:

DATE: 10/26/2022

30% CONSTRUCTION DOCUMENTATION

MYKD PROJECT NUMBER: 5419

BAL HARBOUR

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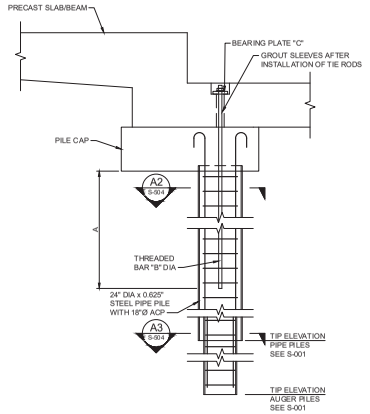
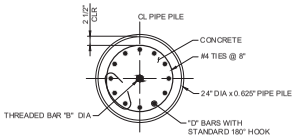
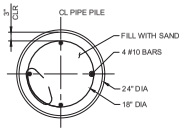


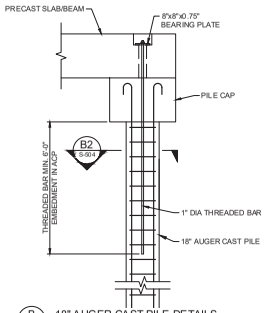
A S-504 24" STEEL PIPE PILE DETAILS
SCALE: 1/2" = 1'-0"



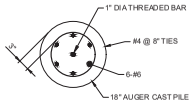
A2 S-504 SECTION - REINFORCED CONCRETE PILE & PLUG
SCALE: 1" = 1'-0"



A3 S-504 SECTION - 18 IN AICP REINFORCING
SCALE: 1" = 1'-0"

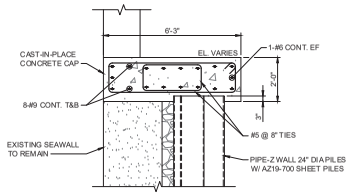


B S-504 18" AUGER CAST PILE DETAILS
SCALE: 1/2" = 1'-0"

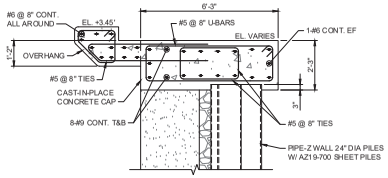


B2 S-504 SECTION - AUGER CAST PILE
SCALE: 1" = 1'-0"

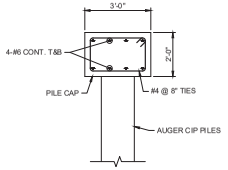
Gridline	Plug Length A [ft]	Threaded Bar "B" [inch]	Bearing Plate "C" [inch]	Vertical Bars "D"
1-5 & 22-26	16.5	2.75	8x8x2.5	14-#11, bundled
7-16	10.5	1.75	8x8x1.5	8-#8
17	10.5	1.75	8X8X1.5	8-#8
18	10.5	1.75	8X8X1.5	8-#8
19	9.0	1.5	8X8X1.5	8-#8
20	10.5	1.75	8X8X1.5	8-#8
21	10.5	1.75	8X8X1.5	8-#8
27-45	8.0	1.25	8X8X1.5	8-#8



C S-504 PILE CAP AT COMBI WALL/SHEETPILE WALL DETAILS
SCALE: 1/2" = 1'-0"



D S-504 PILE CAP AT COMBI WALL/SHEETPILE WALL DETAILS AT STA. 2+33.3 TO 2+76.9
SCALE: 1/2" = 1'-0"



E S-504 PILE CAP AT AUGER CIP PILES DETAILS
SCALE: 1/2" = 1'-0"

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

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

MDC057

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moffatt & nichol

MYKD PROJECT NUMBER: 5419

30% CONSTRUCTION DOCUMENTATION

DATE: 10/26/2022

REVISIONS:

SCALE:

DRAWING NAME:
REINFORCEMENT DETAILS PILES & PILE CAPS

DRAWING NUMBER:
S-504

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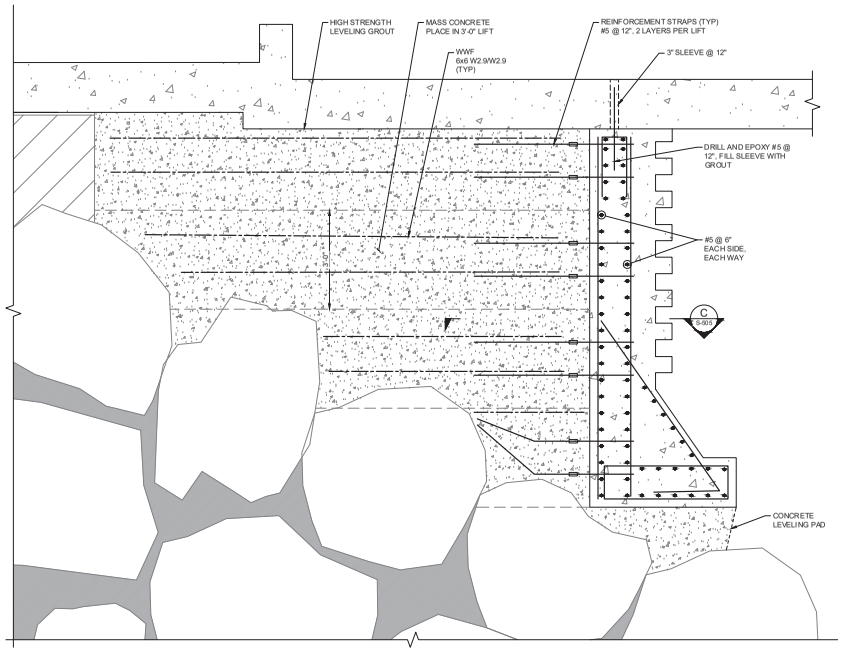
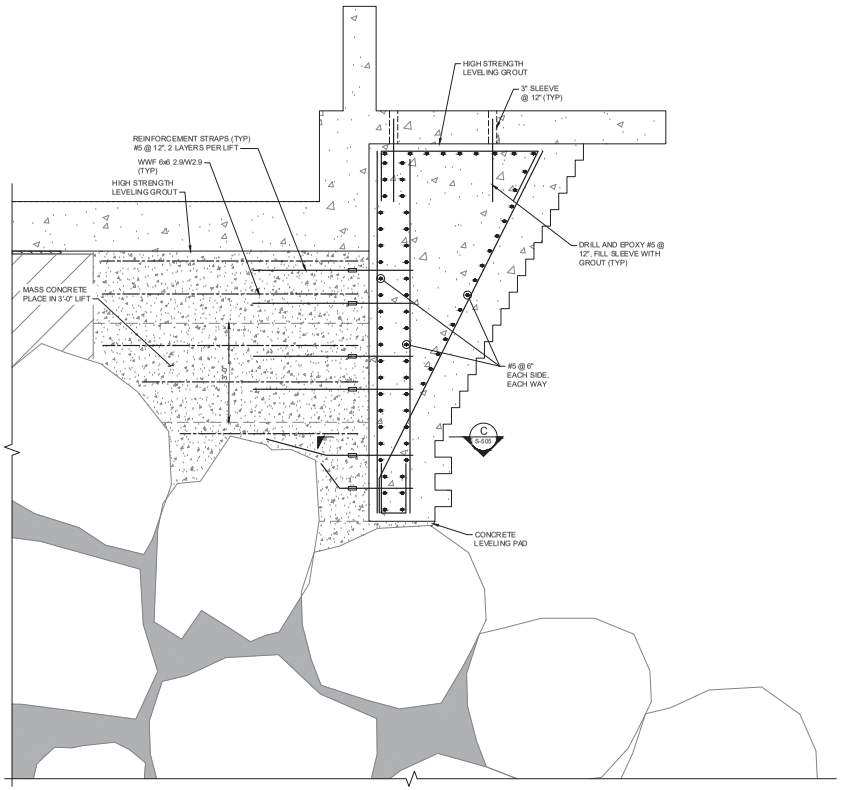
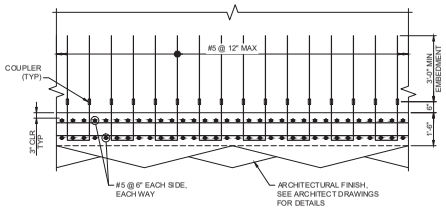
MDC058



A S-505 CONCRETE FACING REBAR DETAIL
SCALE: 3/4" = 1'-0"



B S-505 CONCRETE FACING REBAR DETAIL
SCALE: 3/4" = 1'-0"



C S-505 PLAN TYPICAL CONCRETE FACING REBAR
SCALE: 1/2" = 1'-0"

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

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

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MYKD PROJECT NUMBER: 5419

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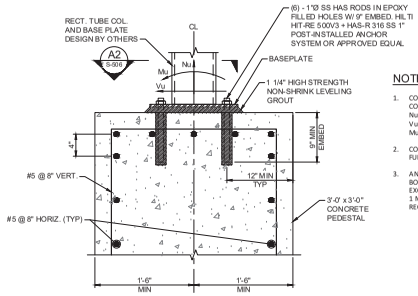
REVISIONS

SCALE

DRAWING NAME:
REINFORCEMENT DETAILS PRECAST CONCRETE FACING

DRAWING NUMBER:
S-505

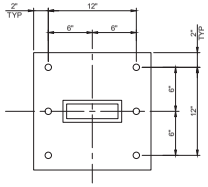
File: G:\MK\2019\5419.20 CAD\1_Archive\1_Bal Harbor Jetty\5419S5-505; Plotted: 10/26/2022 8:29 AM by THOMSEN, KARINA; Saved: 9/5/2022 10:48 AM by THOMSEN



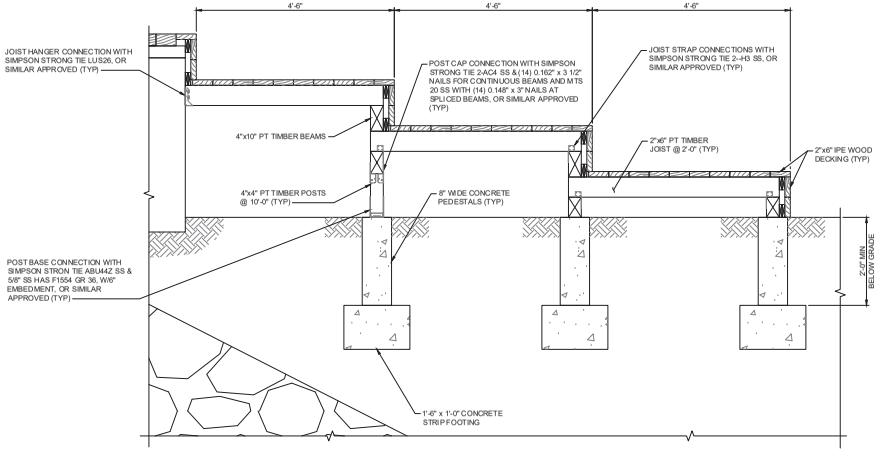
A CANOPY BASE CONNECTION DETAILS
SCALE: 1 1/2" = 1'-0"

NOTES:

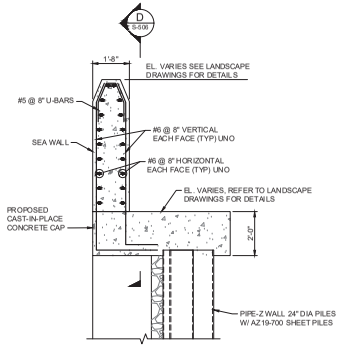
1. CONNECTION DESIGN BASED ON THE FOLLOWING CONCURRENT BASE STRENGTH LEVEL REACTIONS:
   Nu = +3.05 K / -4.48 K.
   Vu = +2.89 K /-2.89 K.
   Mu = +40.46 FT-K / -44.96 FT-K.
2. COLUMN AND BASE PLATE MUST BE DESIGNED AS FULLY FIXED SUPPORT.
3. ANY DEVIATION OF BASE PLATE PLAN DIMENSIONS, BOLT PATTERN OR LOADS, WHICH MAGNITUDE EXCEEDS THE CRITICAL COMBINATION FROM NOTE 1 MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL.



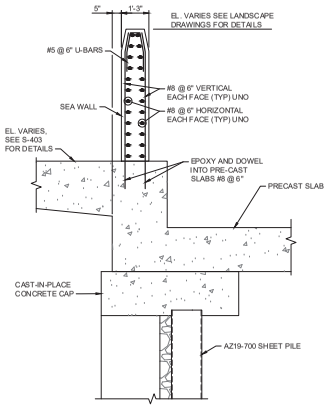
A2 S-506 SECTION
SCALE: 2" = 1'-0"



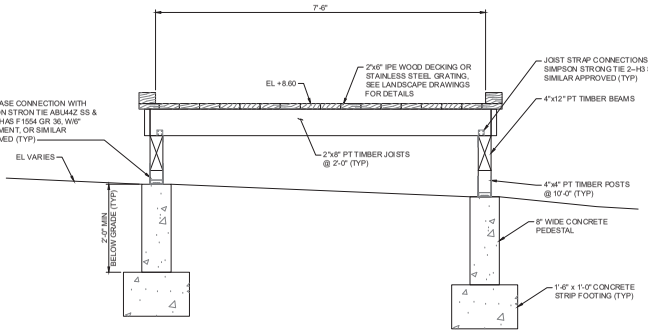
E S-506 TYPICAL BEACH STEP DETAIL
SCALE: 1" = 1'-0"



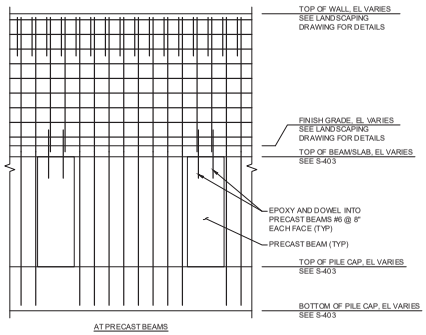
B S-506 TYPICAL SEAWALL REINFORCEMENT DETAILS
SCALE: 1/2" = 1'-0"



C S-506 SEAWALL AT FLOODGATES
SCALE: 1/2" = 1'-0"



F S-506 TYPICAL BOARDWALK DETAIL
SCALE: 1" = 1'-0"



D S-506 SEAWALL CONNECTION DETAILS
SCALE: 1/2" = 1'-0"

6" 0'-0" 6" 1'-0"
SCALE: 2" = 1'-0"

6" 0'-0" 6" 1'-0"
SCALE: 1 1/2" = 1'-0"

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

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

MDC059

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BAL HARBOUR

THE CUT WALKAND JETTY
BAKERS HAULOVER CUT
10116 COLLINS AVENUE, BAL HARBOUR, FL 33154

mykd
mi kyung kim design
119 braintree street no. 103
boston, ma 02134
p 617.782.0130
www.myk-d.com

Client
Bal Harbour Village

Design Landscape Architect
Mikyoung Kim Design
119 Braintree St, Suite 103
Boston, MA 02134
(617)782-9130

Landscape Architect of Record
Cadence
435 N Andrews Ave No.2
Fort Lauderdale, FL 33301
(954)768-4572

Civil
Botek Thurlow Engineering
3409 NW 9th Ave Suite 1102
Fort Lauderdale, FL 33309
(954)568-0888

Structural Engineers
Moffatt & Nichol
2937 SW 27th Ave., Suite 101A
Miami, FL 33133
(305)230-1924
(FL EB 4877)

Environmental
The Chappell Group
714 E McNab Rd
Pompano Beach, FL 33060
(954)782-1908

Lighting
Miami Lighting Design
2550 S Bayshore Drive Suite 206
Miami, FL 33133
(305)978-9138

MYKD PROJECT NUMBER 5419

30% CONSTRUCTION DOCUMENTATION

DATE 10/26/2022

REVISIONS

SCALE:

DRAWING NAME:
MISCELLANEOUS DETAILS

DRAWING NUMBER:
S-506

NOT FOR CONSTRUCTION

Attachment C

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

10295 COLLINS AVENUE HOTEL CONDO ASSOC, INC.
C/O PRESIDENT, MANAGEMENT
10295 COLLINS AVE
BAL HARBOUR, FL 33154

BAY COLONY OF BAL HARBOUR INC
290 BAL BAY DR
BAL HARBOUR, FL 33154

HARBOUR HOUSE (BAL HARBOUR) CONDO ASSOC, INC.
C/O PRESIDENT, MANAGEMENT
10275 COLLINS AVE, MGMT OFFICE
BAL HARBOUR, FL 33154

MIAMI-DADE COUNTY
PUBLIC WORKS
111 NW 1 ST STE 1610
MIAMI, FL 33128

OBH HOTEL FACILITIES CONDO ASSOC, INC.
C/O DIEGO LOWENSTEIN, PRES.
4100 NE 2 AVE STE 202
MIAMI, FL 33137

ONE BAL HARBOUR CORP
10295 COLLINS AVE
BAL HARBOUR, FL 33154

THE RESIDENCES AT ONE BAL HARBOUR CONDO ASSOC, INC.
C/O LOUIS MAYBERG, PRES.
10295 COLLINS AVE
BAL HARBOUR, FL 33154

TOWN OF BAY HARBOR ISLANDS
9660 BAY HARBOR TERRACE
BAY HARBOR ISLANDS, FL 33154

WATER'S EDGE HOUSE CONDO ASSOC, INC.
C/O JOSEPH SWEDROE, PRES.
286 BAL BAY DRIVE, APT 3B
BAL HARBOUR, FL 33154

Attachment D

DERM Project Report

CLASS I PERMIT APPLICATION NO. CLI-2020-0388

Class I Permit Application by the Village of Bal Harbour for the Filling of Tidal Waters in Association with the Renovation and Expansion of the Jetty Located Along the South Side of Baker's Haulover Inlet, Bal Harbour, Miami-Dade County, Florida

DATE: April 27, 2023

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 and staff's opinion to its conformance 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. Section 24-48.4 of the Code also requires mitigation for permittable projects that otherwise result in unavoidable environmental impacts. The existing limerock riprap boulders located waterward of the jetty support numerous hard and soft non-listed corals. In order to avoid impacts to the corals documented within the footprint of the proposed work, the Village is proposing to relocate the coral colonies to a temporary holding site outside of the project footprint. Upon completion of the work, the corals would be reattached to suitable substrate along the jetty. As a condition of the Class I permit, monitoring reports and a mitigation bond would be required to ensure the survival of the relocated corals.

   The proposed work is not reasonably expected to result in cumulative environmental impacts to water quality; however, the construction phase of the proposed project may result in temporary water quality impacts. In order to minimize the temporary impacts to water quality as a result of the construction activities associated with the proposed work, the Class I permit would require that turbidity controls be utilized during all phases of construction to ensure compliance with State and County water quality standards. The mitigation required for the temporary water quality impacts associated with the filling of tidal waters would be satisfied through a contribution to the Biscayne Bay Environmental Enhancement Trust Fund.

   The proposed project is consistent with the Miami-Dade County Manatee Protection Plan. The subject property is not located within an area designated as essential habitat for the West Indian Manatee. However, the Class I permit will require that all standard manatee construction conditions be followed during all in water operations.

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; however, temporary water quality impacts would be minimized as set forth in Number 1 above.

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. While cantilevered platforms are proposed along the north side of the jetty within Haulover Cut, no expansion of the jetty is proposed within the channel and all jetty expansion would occur to the south. Therefore, the work is not reasonably anticipated to impede navigation through the inlet.

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 is not reasonably expected to adversely affect wetland soils suitable for habitat.

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 fauna 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.

21. **Land Use Classification** – Pursuant to Section 24-48.2(II)(B)(7) of the Code of Miami-Dade County, Florida, applications for Class I permits by a municipality within its own jurisdiction shall not be required to submit a substantiating letter or plan approval from the local zoning authority.

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 would occur on lands owned by the applicant, as well as lands owned by the ACOE and FDEP. The applicant has received authorization from ACOE and FDEP.

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 (regulatory 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 would 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, 7C, 7D, 7J - Wetland protection and restoration. – The proposed project is not located within a wetland.

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.

COASTAL MANAGEMENT ELEMENT VII:

Objective 1/Policy 1A – Mangrove wetlands within Mangrove Protection Areas – The proposed project is not located within a designated "Mangrove Protection Area."

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

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

Objective 1/Policy 1D - Protection and maintenance of mangrove forests and related natural vegetational communities. - The proposed project is not located within a mangrove forest or related natural vegetational community.

Objective 1/Policy 1E - Mitigation for the degradation and destruction of coastal wetlands. Monitoring and maintenance of mitigation areas. – The proposed project is not located within coastal wetlands.

Objective 1/Policy 1G - Prohibition on dredging or filling of grass/algal flats, hard bottom or other viable benthic communities, except as provided for in Chapter 24 of the Code of Miami-Dade County, Florida. The proposed project complies with the following criteria:

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

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 would improve and expand an existing 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 site is not located within the Shoreline Development Review boundaries; therefore, 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 is consistent with the criteria used to determine appropriateness of the project.

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 not within the Biscayne Bay Aquatic Preserve.

30. **Conformance with the Miami-Dade County Manatee Protection Plan** - The proposed project is consistent with the MPP as set forth in Number 1 above.

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, applications for Class I permits by a municipality within its own jurisdiction shall not be required to submit a substantiating letter or plan approval from the applicable zoning authority.

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 proposed project is not located within a wetland.

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 – Not applicable.

24-48.3 (4) Clean Fill in Wetlands – Not applicable.

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

McKee Gray, Chief
Natural Resources Division

Rockell Alhale, ERPS
Coastal Resources Section

Attachment E:

Florida Department of Environmental Protection Permit

FLORIDA DEPARTMENT OF Environmental Protection

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, FL 32399

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

August 05, 2022

Bal Harbour Village, Florida
Attn: Matilde Reyes
655 96th Street
Bal Harbour, FL 33154

BOT No. 131272126, Easement Number. 27999 (3760-13)
Grantee: Bal Harbour Village, Florida

Ms. Reyes:

Enclosed is a fully executed original easement for your records. The original easement, at the option of the Grantee, may be recorded in the official records of the county where the leased site is located.

If the billing agent, phone number, or fax number change, or there is a change in the Grantee's tax status, please notify the DIVISION OF STATE LANDS, REVENUE SECTION in writing within 30 days of the date of any change.

Thank you for your assistance and cooperation in this matter. Should you have any questions, please contact me at (850) 245-2730 or Tiana.D.Brown@FloridaDEP.gov.

Sincerely,

Tiana D. Brown

Tiana D. Brown
Bureau of Public Land Administration
Division of State Lands
State of Florida Department of Environmental Protection

Enclosures

Cc: File

This Instrument Prepared By:
Tiana D. Brown
Action No. 37983
Bureau of Public Land Administration
3900 Commonwealth Boulevard
Mail Station No. 125
Tallahassee, Florida 32399

BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND
OF THE STATE OF FLORIDA

SOVEREIGNTY SUBMERGED LANDS EASEMENT RENEWAL

EASEMENT NO. 27999 (3760-13)
BOT FILE NO. 131272126

THIS EASEMENT is hereby granted by the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida, hereinafter referred to as the Grantor.

WITNESSETH: That for the faithful and timely performance of and compliance with the terms and conditions stated herein, the Grantor does hereby grant to Bal Harbour Village, Florida, hereinafter referred to as the Grantee, a nonexclusive easement on, under and across the sovereignty lands, if any, contained in the following legal description:

A parcel of sovereignty submerged land in
Section 26, Township 52 South, Range 42 East, in Atlantic Ocean,
Miami-Dade County, Florida, containing 93,915 square feet, more or less,
as is more particularly described and shown on Attachment A, dated March 17, 1987.

TO HAVE THE USE OF the hereinabove described premises from June 22, 2017, the effective date of this renewal easement, through June 22, 2067, the expiration date of this renewal easement. The terms and conditions on and for which this easement is granted are as follows:

1. USE OF PROPERTY: The above described parcel of land shall be used solely for riprap jetty. All of the foregoing subject to the remaining conditions of this easement.

2. EASEMENT CONSIDERATION: In the event the Grantor amends its rules related to fees and the amended rules provide the Grantee will be charged a fee or an increased fee for this activity, the Grantee agrees to pay all charges required by such amended rules within 90 days of the date the amended rules become effective or by a date provided by an invoice from the Department, whichever is later. All fees charged under this provision shall be prospective in nature; i.e. they shall begin to accrue on the date that the amended rules become effective.

3. WARRANTY OF TITLE/GUARANTEE OF SUITABILITY OF USE OF LAND: Grantor neither warrants title to the lands described herein nor guarantees the suitability of any of the lands for any particular use.

4. RIGHTS GRANTED: The rights hereby granted shall be subject to any and all prior rights of the United States and any and all prior grants by the Grantor in and to the submerged lands situated within the limits of this easement.

5. DAMAGE TO EASEMENT PROPERTY AND INTERFERENCE WITH PUBLIC AND PRIVATE RIGHTS: Grantee shall not damage the easement lands or unduly interfere with public or private rights therein.

6. GRANTOR'S RIGHT TO GRANT COMPATIBLE USES OF THE EASEMENT PROPERTY: This easement is nonexclusive, and the Grantor, or its duly authorized agent, shall retain the right to enter the property or to engage in management activities not inconsistent with the use herein provided for and shall retain the right to grant compatible uses of the property to third parties during the term of this easement.

7. RIGHT TO INSPECT: Grantor, or its duly authorized agent, shall have the right at any time to inspect the works and operations of the Grantee in any matter pertaining to this easement.

8. LIABILITY/INVESTIGATION OF ALL CLAIMS: The Grantee shall investigate all claims of every nature at its expense. Each party is responsible for all personal injury and property damage attributable to the negligent acts or omissions of that party and the officers, employees and agents thereof. Nothing herein shall be construed as an indemnity or a waiver of sovereign immunity enjoyed by any party hereto, as provided in Section 768.28, Florida Statutes, as amended from time to time, or any other law providing limitations on claims.

9. ASSIGNMENT OF EASEMENT: This easement shall not be assigned or otherwise transferred without prior written consent of the Grantor or its duly authorized agent and which consent shall not be unreasonably withheld. Any assignment or other transfer without prior written consent of the Grantor shall be null and void and without legal effect.

10. TERMINATION: The Grantee, by acceptance of this easement, binds itself, its successors and assigns, to abide by the provisions and conditions herein set forth, and said provisions and conditions shall be deemed covenants of the Grantee, its successors and assigns. In the event the Grantee fails or refuses to comply with the provisions and conditions herein set forth or in the event the Grantee violates any of the provisions and conditions herein, this easement may be terminated by the Grantor upon 30 days written notice to the Grantee. If terminated, all of the above-described parcel of land shall revert to the Grantor. Any costs or expenses incurred by the Grantor in removing the Grantee or its property from the easement area shall be paid by the Grantee. All notices required to be given to the Grantee by this easement or applicable law or administrative rules shall be sufficient if sent by U.S. Mail to the following address:

Bal Harbour Village, Florida
Attention: Matilde Reyes
655 96th Street
Bal Harbour, Florida 33154

The Grantee agrees to notify the Grantor by certified mail of any changes to this address at least ten (10) days before the change is effective.

11. TAXES AND ASSESSMENTS: The Grantee shall assume all responsibility for liabilities that accrue to the subject property or to the improvements thereon, including any and all drainage or special assessments or taxes of every kind and description which are now or may be hereafter lawfully assessed and levied against the subject property during the effective period of this easement which result from the grant of this easement or the activities of Grantee hereunder.

12. REMOVAL OF STRUCTURES/ADMINISTRATIVE FINES: If the Grantee does not remove said structures and equipment occupying and erected upon the premises after expiration or cancellation of this easement, such structures and equipment will be deemed forfeited to the Grantor, and the Grantor may authorize removal and may sell such forfeited structures and equipment after ten (10) days written notice by certified mail addressed to the Grantee at the address specified in paragraph 10 or at such address on record as provided to the Grantor by the Grantee. However, such remedy shall be in addition to all other remedies available to Grantor under applicable laws, rules and regulations including the right to compel removal of all structures and the right to impose administrative fines.

13. ENFORCEMENT OF PROVISIONS: No failure, or successive failures, on the part of the Grantor to enforce any provision, nor any waiver or successive waivers on its part of any provision herein, shall operate as a discharge thereof or render the same inoperative or impair the right of the Grantor to enforce the same upon any renewal thereof or in the event of subsequent breach or breaches.

14. AMENDMENT/MODIFICATIONS: This easement is the entire and only agreement between the parties. Its provisions are not severable. Any amendment or modification to this easement must be in writing and must be accepted, acknowledged and executed by the Grantee and Grantor.

15. USACE AUTHORIZATION: Prior to commencement of construction and/or activities authorized herein, the Grantee shall obtain the U.S. Army Corps of Engineers (USACE) permit if it is required by the USACE. Any modifications to the construction and/or activities authorized herein that may be required by the USACE shall require consideration by and the prior written approval of the Grantor prior to the commencement of construction and/or any activities on sovereign, submerged lands.

16. ADDITIONAL STRUCTURES OR ACTIVITIES/EMERGENCY STRUCTURAL REPAIRS: No additional structures shall be erected and/or activities undertaken, including but not limited to, dredging, relocation/realignment or major repairs or renovations made to authorized structures, on, in or over sovereignty, submerged lands without the prior written consent from the Grantor, with the exception of emergency repairs. Unless specifically authorized in writing by the Grantor, such activities or structures shall be considered unauthorized and a violation of Chapter 253, Florida Statutes, and shall subject the Grantee to administrative fines under Chapter 18-14, Florida Administrative Code. If emergency repairs are required to be undertaken in the interests of public health, safety or welfare, the Grantee shall notify the Grantor of such repairs as quickly as is practicable; provided, however, that such emergency activities shall not exceed the activities authorized by this easement.

17. UPLAND RIPARIAN PROPERTY INTEREST: During the term of this easement, Grantee must have satisfactory evidence of sufficient upland interest as defined in subsection 18-21.003(63), Florida Administrative Code, to the extent required by paragraph 18-21.004(3)(b), Florida Administrative Code, in order to conduct the activity described in this easement. If at any time during the term of this easement, Grantee fails to comply with this requirement, use of sovereignty, submerged lands described in this easement shall immediately cease and this easement shall terminate and title to this easement shall revert to and vest in the Grantor immediately and automatically.

18. ACCRETION INTEREST: In further consideration of the issuance of this easement by Grantor, Grantee expressly waives any right, title or interest in and to any accretions or additions to Grantee's shoreline resulting from any activity approved herein.

[*Remainder of page intentionally left blank; Signature page follows*]

IN WITNESS WHEREOF, the Grantor and the Grantee have executed this instrument on the day and year first above written.

WITNESSES:

Tiana D. Brown
Original Signature

Tiana D. Brown
Print/Type Name of Witness

Celeda Wallace
Original Signature

Celeda Wallace
Print/Type Name of Witness

BOARD OF TRUSTEES OF THE INTERNAL IMPROVEMENT TRUST FUND OF THE STATE OF FLORIDA

(SEAL)

BY: _____

Brad Richardson, Chief, Bureau of Public Land Administration, Division of State Lands, State of Florida Department of Environmental Protection, as agent for and on behalf of the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida.

"GRANTOR"

STATE OF FLORIDA
COUNTY OF LEON

The foregoing instrument was acknowledged before me by means of physical presence this 5th day of August, 2022, by Brad Richardson, Chief, Bureau of Public Land Administration, Division of State Lands, State of Florida Department of Environmental Protection, as agent for and on behalf of the Board of Trustees of the Internal Improvement Trust Fund of the State of Florida. He is personally known to me.

APPROVED SUBJECT TO PROPER EXECUTION:

8/1/2022
DEP Attorney Date

Tiana D. Brown
Notary Public, State of Florida

Printed, Typed or Stamped Name

My Commission Expires:

TIANA D. BROWN
Commission # HH 143755
Expires June 20, 2025
Bonded Thru Troy Fain Insurance 800-385-7019

Commission/Serial No.

WITNESSES:

Original Signature

Dwight S. Dawie
Typed/Printed Name of Witness

Original Signature

MATILDE E. REYES
Typed/Printed Name of Witness

Bal Harbour Village, Florida (SEAL)

BY: Original Signature of Executing Authority

Jorge M. Gonzalez
Typed/Printed Name of Executing Authority

Village Manager
Title of Executing Authority

"GRANTEE"

STATE OF FLORIDA

COUNTY OF MIAMI-DADE

The foregoing instrument was acknowledged before me by means of ✓ physical presence or __online notarization this 31st day of August, 2022, by Jorge M. Gonzalez as Village Manager, for and on behalf of Bal Harbour Village, Florida. He is personally known to me or who has produced personally known as identification.

My Commission Expires:

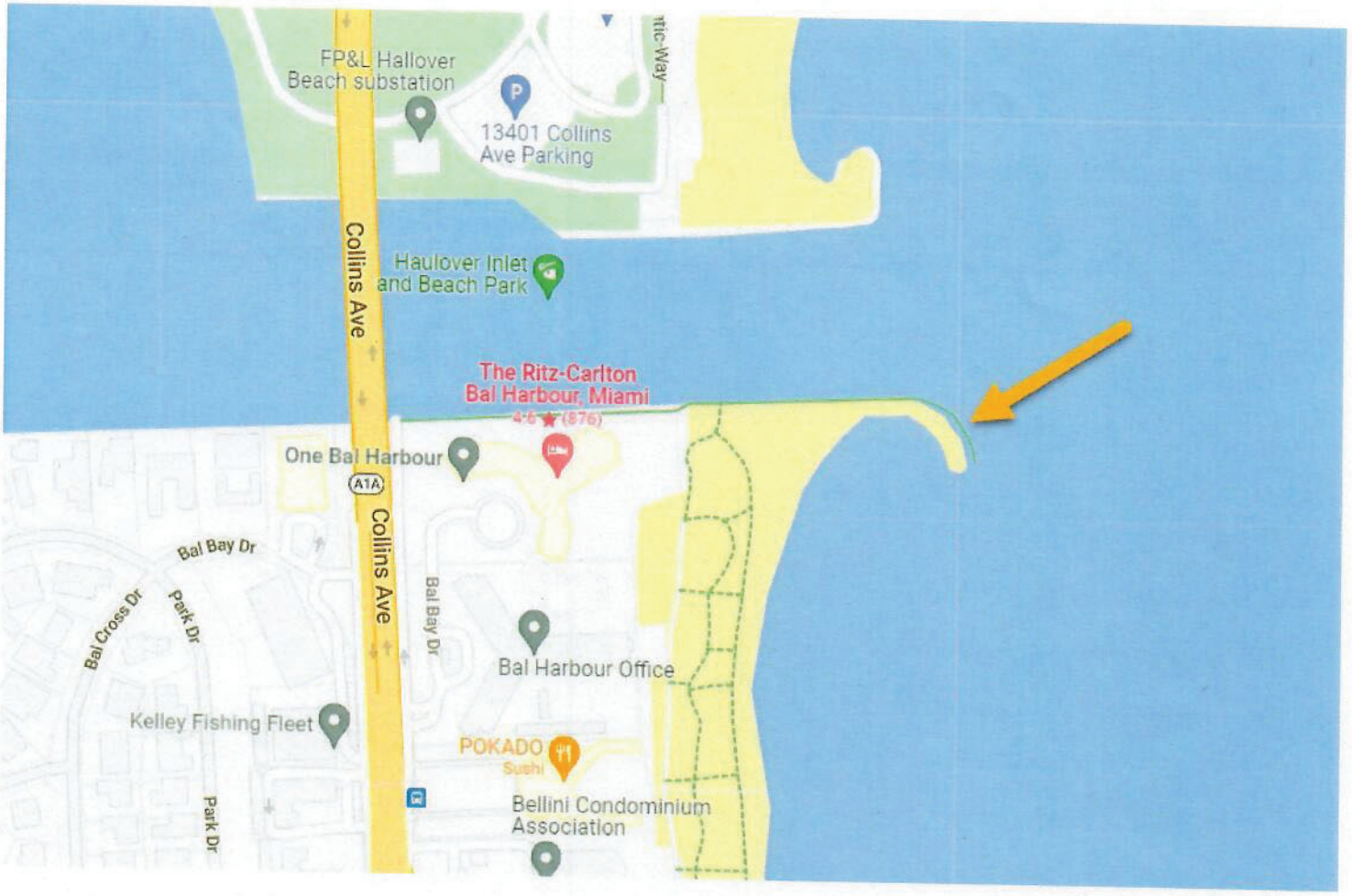
MANON HERNANDEZ
Notary Public - State of Florida
Commission # HH 267776
My Comm. Expires May 24, 2026
Bonded through National Notary Assn.

Commission/Serial No. 5/14/26

Signature of Notary Public

Notary Public, State of Florida

MANON HERNANDEZ
Printed, Typed or Stamped Name



Attachment A
Page 6 of 8 Pages
Easement No. 27999 (3760-13)

EASEMENT LEGAL DESCRIPTION

A PORTION OF SECTION 26, TOWNSHIP 52 SOUTH, RANGE 42 EAST, OF DADE COUNTY, FLORIDA; BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGIN AT THE "NORTHERLY TERMINUS OF EROSION CONTROL LINE", AS SHOWN ON THE PLAT ENTITLED "ESTABLISHMENT OF EROSION CONTROL LINE", AS RECORDED IN PLAT BOOK 80 AT PAGE 65 OF THE PUBLIC RECORDS OF DADE COUNTY, FLORIDA; SAID POINT OF BEGINNING HAVING CO-ORDINATES OF X-788,431.92, Y-569,944.46; THENCE RUN S3°08'48"E, ALONG DESCRIBED EROSION CONTROL LINE, FOR 60.00 FEET; THENCE RUN N86°50'46"E, FOR 480.00 FEET TO A POINT OF CURVATURE OF A CIRCULAR CURVE TO THE RIGHT; THENCE RUN EASTERLY AND SOUTHEASTERLY ALONG THE ARC OF SAID CURVE TO THE RIGHT, CONCAVE TO THE SOUTHWEST, HAVING FOR ITS ELEMENTS A CENTRAL ANGLE OF 90°, A RADIUS OF 90.00 FEET, FOR AN ARC DISTANCE OF 141.37 FEET TO THE POINT OF TANGENCY; THENCE RUN S3°03'14"E FOR 20.00 FEET TO A POINT OF CURVATURE OF A CIRCULAR CURVE TO THE LEFT; THENCE RUN SOUTHERLY, EASTERLY AND NORTHERLY, ALONG THE ARC OF SAID CURVE TO THE LEFT, CONCAVE TO THE NORTH, HAVING FOR ITS ELEMENTS A CENTRAL ANGLE OF 180°, A RADIUS OF 60.00 FEET, FOR AN ARC DISTANCE OF 188.50 FEET TO THE POINT OF TANGENCY; THENCE RUN N3°03'14"W FOR 20.00 FEET TO A POINT OF CURVATURE OF A CIRCULAR CURVE TO THE LEFT; THENCE RUN NORTHERLY AND WESTERLY, ALONG THE ARC OF SAID CURVE TO THE LEFT, CONCAVE TO THE SOUTHWEST, HAVING FOR ITS ELEMENTS A CENTRAL ANGLE OF 90°, A RADIUS OF 210.00 FEET, FOR AN ARC DISTANCE OF 329.87 FEET TO THE POINT OF TANGENCY; THENCE RUN S86°50'46"W FOR 479.99 FEET; THENCE RUN S3°08'48"E FOR 60.00 FEET TO THE POINT OF BEGINNING OF DESCRIBED EASEMENT.

THIS EASEMENT CONTAINS 2.156 ACRES, MORE OR LESS.

ORDER NO. 8795 DATE: MARCH 17, 1987
FIELD BOOK PAGES SCALE: AS SHOWN

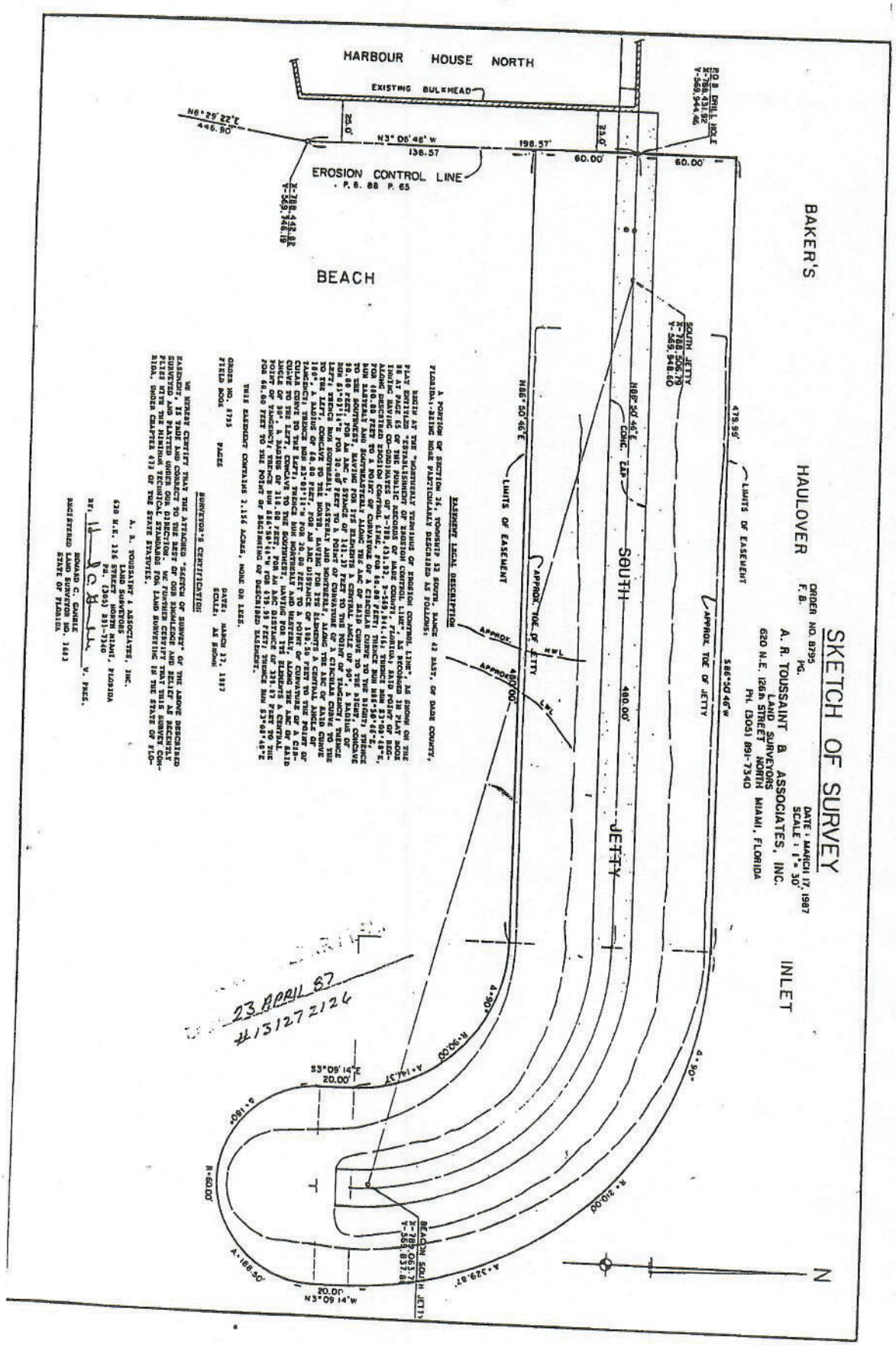
SURVEYOR'S CERTIFICATION:

WE HEREBY CERTIFY THAT THE ATTACHED "SKETCH OF SURVEY" OF THE ABOVE DESCRIBED EASEMENT, IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF AS RECENTLY SURVEYED AND PLATTED UNDER OUR DIRECTION. WE FURTHER CERTIFY THAT THIS SURVEY COMPLIES WITH THE MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING IN THE STATE OF FLORIDA, UNDER CHAPTER 472 OF THE STATE STATUTES.

A. R. TOUSSAINT & ASSOCIATES, INC.
LAND SURVEYORS
620 N.E. 126 STREET NORTH MIAMI, FLORIDA
PH. (305) 891-7340

BY: _____ V. PRES.

HOWARD C. GAMBLE
REGISTERED LAND SURVEYOR NO. 1683
STATE OF FLORIDA


SKETCH OF SURVEY
BAKER'S HAULOVER INLET
ORDER NO. 8795
F.B. PG.
DATE: MARCH 17, 1987
SCALE: 1" = 30'
A. R. TOUSSAINT & ASSOCIATES, INC.
LAND SURVEYORS
620 N.E. 125th STREET NORTH MIAMI, FLORIDA
PH. (305) 891-7340
HARBOUR HOUSE NORTH
EXISTING BULKHEAD
EROSION CONTROL LINE
P. B. 88 P. 65
BEACH
SOUTH JETTY
LIMITS OF EASEMENT
APPROX. TOE OF JETTY
CONC. EAP
JETTY
N
EASEMENT LEGAL DESCRIPTION
TRUE EASEMENT CONTAINS 2.156 ACRES, MORE OR LESS.
SURVEYOR'S CERTIFICATION:
A. R. TOUSSAINT & ASSOCIATES, INC.
630 N.E. 126 STREET
NORTH MIAMI, FLORIDA
PH. (305) 891-7340
BY:
EDWARD C. GAMBLE
REGISTERED
LAND SURVEYOR NO. 1643
STATE OF FLORIDA
23 APRIL 87
#131272126

Attachment F:

Army Corps of Engineers Permit

DEPARTMENT OF THE ARMY PERMIT

Permittee: Village of Bal Harbour
c/o Jorge Gonzalez, Village Manager

Permit No: SAJ-2014-00671

Issuing Office: U.S. Army Engineer District, Jacksonville

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the U.S. Army Corps of Engineers (Corps) having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

The applicant seeks authorization to conduct the following activities as part of the repair and rehabilitation of the existing Haulover Jetty:

1. Repair of 426 linear feet of seawall along the western most portion of the project adjacent to Collins Avenue to receive a new top profile
2. Reinforcement of 631 linear feet of existing seawall with a combination of sheet piles and 54-12” concrete king piles on the landward side of the existing seawall along the south side of Haulover inlet adjacent to the existing condo building.
3. Installation of 43 augured cast piles to be installed landward of the existing seawall to be used to support the cantilever precast beams to support the proposed platforms and catwalks
4. Repair and stabilization of 186 linear feet of existing riprap revetment with 53 cubic yards of grouting to fill voids and installation of Eco-concrete material forms within the exiting footprint along the inside of the jetty hook area. Installation is within the same footprint of the existing riprap revetment.
5. Installation of 892 square feet of concrete cantilevered platforms over water along the existing north shoreline. The structures having varying over water distances from 3 feet to 14 feet and will not extend any further waterward than the existing riprap revetment along the shoreline.
6. Installation of 1,830 square feet of cantilevered grated catwalks over water connecting platform 2 and 3 and between platform 3 and the uplands. The catwalks will vary in width between 7 to 8 feet wide and will not extend beyond the footprint of the existing riprap revetment.
7. Installation of 1,803 square feet of concrete platform extending over existing jetty edge landward of the MHWL along the north shore of the existing jetty.
8. Extension of 882 square feet of proposed jetty head extended over water as part of the upland expansion and elevation of the structure.
9. Installation of 342 square feet of overhanging stepdown platforms with railings along the

inside edge of the existing jetty hook area.

10. Expansion of the jetty deck footprint by 2,384 square feet along the terminus and inside potion of the existing jetty hook. The expansion will be done within the existing footprint of the current riprap revetment. No additional riprap will be added or extended beyond the current toe of the revetment.
11. A total of 4,914 square feet of additional improvements (boardwalks, pavers, stairs) will be installed in the upland areas abutting the existing concrete jetty deck on the south side (beachside) of the structure.

All work will be conducted from the uplands. The project will include the temporary deployment of turbidity curtains surrounding the construction areas.

Some of the proposed structure will be located in the uplands outside of the Corps jurisdictional boundary, however they are included in the list above due to their connection with the overall project activities that are being proposed on or over Waters of the U.S.

The work described above is to be completed in accordance with the plans date stamped by the U.S. Army Corps of Engineers on 14 September 2022 (19 pgs.) and attachments affixed at the end of this permit instrument.

Project Location: The project would affect waters of the United States associated with Haulover Inlet and the near shore waters of the Atlantic Ocean. The project site is located at 10295 Collins Avenue in Section 44, Township 22 South, 26 East, Bal Harbour, Florida 33154 (Folio # 12-2226-005-0030).

Directions to site: I-95, east on NE 125th St, east on NE 123rd St, North on A1-A.

Approximate Central Coordinates: Latitude 25.899446°
Longitude -80.122376°

Permit Conditions

General Conditions:

1. The time limit for completing the work authorized ends on **15 September 2027**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

4. If you sell the property associated with this permit, you must obtain the signature and the mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

1. Reporting Address: The Permittee shall submit all reports, notifications, documentation, and correspondence required by the general and special conditions of this permit to either (not both) of the following addresses:

a. For electronic mail (preferred): SAJ-RD-Enforcement@usace.army.mil (not to exceed 15 MB).

b. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, P.O. Box 4970, Jacksonville, FL 32232-0019.

The Permittee shall reference this permit number, SAJ-2014-00671 (SP-AG), on all submittals.

2. Permit Conditions Prevail: If information in the permit attachments conflict with the special conditions of this permit, the requirements of the permit special conditions shall prevail.

3. Pre-Construction Meeting: The Permittee will schedule a pre-construction meeting with a Corps representative no later than 30 days prior to the start of work to review the special conditions of the permit. The Permittee shall not start work prior to the pre-construction meeting. Please contact the Compliance and Enforcement Section at SAJ-RD-Enforcement@usace.army.mil.

4. Commencement Notification: Within 10 days from the date of initiating the work authorized by this permit, the Permittee shall submit a completed "Commencement Notification" form (attached).

5. Posting of Permit: The Permittee shall have available and maintain for review a copy of this permit and approved plans at the construction site.

6. Local Notice to Mariners: The contractor is required to contact the United States Coast Guard office a minimum of 2 weeks prior to commencement and provide locations affected, equipment, hours of operation, and duration of the project so that the information can be published in the Local Notice to Mariners.

7. Assurance of Navigation and Maintenance: The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the U.S. Army Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

8. Federal Channel Setback: The most waterward edge of the authorized project shall be constructed as shown in shown in the approved plans date stamped by the U.S. Army Corp of Engineers on 14 September 2022 (19 pgs.)

9. Individual Section 408 Approval: It has been determined that the activities authorized do not impair the usefulness of the Dade County Beach Erosion Control and Hurricane Protection Project and the Bakers Haulover Inlet South Jetty Project and are not injurious to the public interest. The Permittee shall adhere to the conditions and limitations referenced in the Section 408 approval letter attached to this permit as

well as the Engineering Circular 1165-2-220, dated 10 September 2018, Policy and Procedural Guidance for Processing Requests to Alter US Army Corps of Engineers Civil Works Projects Pursuant to 33 USC 408, Appendix K, paragraphs 1 to 16 (enclosed). All documentation required in the Section 408 approval memo, including certification that the work was completed in accordance with the approved plans and specifications, GPS readings for the limits of the work performed, as-built drawings, and the date the work started and was completed shall be submitted either electronically by email at ENPermits.CESAJ@usace.army.mil or by standard mail at Post Office Box 4970, Jacksonville Florida 32232-0019. For all questions related to the Section 408 approval, contact the Corps, Jacksonville Engineering Division by telephone at 904-232-1604. Engineering Division is the appropriate authority to determine compliance with the terms and conditions of Section 408 approval.

10. MANATEE CONDITION: The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work – 2011," attached to this permit.

11. Turbidity Barriers: Prior to the initiation of any of the work authorized by this permit, the Permittee shall install floating turbidity barriers with weighted skirts that extend within 1 foot of the bottom around all work areas that are in, or adjacent to, surface waters. The turbidity barriers shall remain in place and be maintained daily until the authorized work has been completed and turbidity within the construction area has returned to ambient levels. Turbidity barriers shall be removed upon stabilization of the work area.

12. Erosion Control: Prior to the initiation of any work authorized by this permit, the Permittee shall install erosion control measures along the perimeter of all work areas to prevent the displacement of fill material outside the work area into waters of the United States. The erosion control measures shall remain in place and be maintained until all authorized work is completed and the work areas are stabilized.

13. Fill Material: The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, debris, automotive parts, asphalt, construction materials, concrete block with exposed reinforcement bars, and soils contaminated with any toxic substance in toxic amounts, in accordance with Section 307 of the Clean Water Act.

14. Best Management Practices: Environmental controls and best management practices must be implemented to properly contain construction materials and prevent fugitive particulates from entering surrounding waters during the construction of the project.

15. Avoidance and Minimization:

a) The applicant shall avoid and minimize the impacts to existing non-listed corals currently growing on the riprap boulders within the inside (beachside) of the existing jetty hook by relocating all existing corals pursuant to the Coral Relocation Plan prepared by the Chappell Group, Inc dated May 2022 (attached). The permittee will ensure that the final coral relocation site is outside any U.S. Army Corps of Engineers Operations and Maintenance areas.

b) The Permittee shall not store or stockpile tools, equipment, materials, etc., within the adjacent beach areas or within any surface waters of the U.S. without prior written approval. Storage, stockpiling or access of equipment on, in, over or on any areas that do not occur within the proposed project work footprint as shown on the approved drawings is prohibited.

c) Staging areas and temporary storage for construction equipment shall be located off the beach during the project construction. The Permittee shall not conduct any project operations or store project-related equipment within any beach dune areas, or otherwise impact dune vegetation

d) Anchoring or spudding of vessels and barges within beds of aquatic vegetation or hardbottom is also prohibited.

e) Temporary construction access activities (temporary fills, coffer dams, fill pads, access fills etc.) are not authorized by this permit and will require a separate approval from the Department of the Army.

f) The permittee has agreed to conduct all activities related to this authorization outside of the marine turtle and shorebird nesting/breeding seasons [March 1 through November 30].

16. Agency Changes: Should any other agency require and/or approve changes to the work authorized or obligated by this permit, the Permittee is advised a modification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a modification of this permit from the **Miami** Permits Section. The Corps reserves the right to fully evaluate, amend, and approve or deny the request for modification of this permit.

17. Water Quality Certification: The Permittee shall comply with the specific conditions included in the Florida Department of Environmental Consolidated Joint Coastal Permit and Sovereign Submerged Lands Authorization, permit number 0413775-001-JC on 9 September 2022.

18. Jacksonville District Programmatic Biological Opinion (JAXBO): Structures and activities authorized under this permit will be constructed and operated in accordance with all applicable PDCs contained in the JAXBO, based on the permitted activity. Failure to comply with applicable PDCs will constitute noncompliance with this permit. In addition, failure to comply with the applicable PDCs, where a take of listed species occurs, would constitute an unauthorized take. The NMFS is the appropriate authority to determine compliance with the Endangered Species Act. The most current version of JAXBO can be accessed at the Jacksonville District Regulatory Division website in the Endangered Species section of the Sourcebook located at: http://www.saj.usace.army.mil/Missions/Regulatory/SourceBook.aspx

JAXBO may be subject to revision at any time. The most recent version of these JAXBO must be utilized during the design and construction of the permitted work.

19. Protected Species Construction Conditions: The Permittee shall comply with National Marine Fisheries Service's "Protected Species Construction Conditions, NOAA Fisheries Southeast Regional Office" dated May 2021 (attached).

20. Historic Properties:

a. No structure or work shall adversely affect impact or disturb properties listed in the National Register of Historic Places (NRHP) or those eligible for inclusion in the NRHP.

b. If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.

c. Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition; and if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.

d. In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO and THPO(s). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archeologist and from the Corps.

21. As-Built Certification with X-Y Coordinates: Within 60 days of completion of the authorized work or at the expiration of the construction window of this permit, whichever occurs first, the Permittee shall submit as-built drawings of the authorized work and complete the enclosed “As-Built Certification by Professional Engineer or Surveyor” form, ((attached) to the Corps. The drawings shall be signed and sealed by a registered professional engineer or a professional land surveyor confirming the actual location of all authorized work/structures with respect to the Federal channel and/or within the Federal easement and include the following:

a. A plan view drawing of the location of the authorized work footprint (as shown on the permit drawings) with an overlay of the work as constructed in the same scale as the attached permit drawings (8½-inch by 11-inch). The drawings shall include the X & Y State Plane coordination points of the most waterward point of the structure. The drawings shall include the dimensions of the structure, location of mean high water line (MHWL), depth of water (at mean low water) at the waterward end of the structure, and the distance from the waterward end of the structure to the near design edge of the Federal channel.

b. List of any deviations between the work authorized by this permit and the work as constructed. In the event the completed work deviates, in any manner, from the authorized work, describe on the As-Built Certification Form the deviations between the

work authorized by this permit and the work as constructed. Clearly indicate on the as-built drawings any deviations that have been listed. Please note the depiction and/or description of any deviations on the drawings and/or As-Built Certification Form does not constitute approval of any deviations by the Corps.

c. The Department of the Army Permit number.

d. Within 60 days of completion of the work authorized by this permit, the Permittee shall provide a courtesy copy of the signed and sealed As-Built drawings to the Corps, Engineering Division. Submittals shall be sent either electronically by email at ENPermits.CESAJ@usace.army.mil or by standard mail at Post Office Box 4970, Jacksonville Florida 32232-0019.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

(X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403)

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344)

( ) Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413)

(X) Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408)

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal projects.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions: General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

(PERMITTEE) SEPTEMBER 15, 2022
(DATE)

ATTEST:

JORGE M. GONZALEZ, VILLAGE MANAGER
(PERMITTEE NAME-PRINTED)

DWIGHT S. DANIE, VILLAGE CLERK

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

Samantha L. Burns

Date: September 15, 2022

For: JAMES L. BOOTH
Colonel, EN
Commanding

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

_____ _____
(TRANSFEREE-SIGNATURE) (DATE)

_____
(NAME-PRINTED)

_____
(ADDRESS)

_____
(CITY, STATE, AND ZIP CODE)

Attachments to Department of the Army Permit Number SAJ-2014-00671

1. PERMIT DRAWINGS: 19 pages, dated 14 February 2022

2. WATER QUALITY CERTIFICATION: Specific Conditions of the water quality permit/certification in accordance with General Condition number 5 on page 2 of this DA permit. 18 pages.

3. MANATEE CONDITIONS: 2 pages, *Standard Manatee Conditions for In-Water Work – 2011*

4. JAXBO CONDITIONS

5. NOAA PROTECTED SPECIES CONDITIONS MAY 2021: 2 pages

6. AS-BUILT CERTIFICATION FORM: 2 pages

7. PERMIT TRANSFER FORM

8. EN 408 Approval letter to Village of Bal Harbour dated 15 September 2022

9. ENGINEERING CIRCULAR 1165-2-220, App. K 2021: 3 pages

10. CORAL RELOCATION PLAN dated May 2022

11. COMMENCEMENT NOTICE FORM

MEMORANDUM
(Revised)

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

DATE: June 21, 2023

FROM: Geri Bonzon-Keenan
County Attorney

SUBJECT: Agenda Item No. 5(E)

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 ____, 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) ____, or 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(E)
6-21-23

RESOLUTION NO. R-504-23

RESOLUTION TAKING ACTION ON A CLASS I PERMIT APPLICATION BY THE VILLAGE OF BAL HARBOUR FOR THE FILLING OF TIDAL WATERS AND FOR THE AUTHORIZATION TO PERFORM RELATED WORK IN ASSOCIATION WITH THE RENOVATION AND EXPANSION OF THE JETTY LOCATED ALONG THE SOUTH SIDE OF BAKER'S HAULOVER INLET, BAL HARBOUR, MIAMI-DADE COUNTY, FLORIDA

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

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA, that this Board having considered all the applicable factors contained within section 24-48.3 of the Code of Miami-Dade County, hereby approves the application by the Village of Bal Harbour for the filling of tidal waters and for the authorization to perform related work in association with the renovation and expansion of the jetty located along the south side of Baker's Haulover Inlet in the Village of Bal Harbour, 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 **Danielle Cohen Higgins**, who moved its adoption. The motion was seconded by Commissioner **Kionne L. McGhee** and upon being put to a vote, the vote was as follows:

Oliver G. Gilbert, III, Chairman	**absent**		
Anthony Rodríguez, Vice Chairman	**aye**		
Marleine Bastien	**aye**	Juan Carlos Bermudez	**aye**
Kevin Marino Cabrera	**absent**	Sen. René García	**aye**
Roberto J. Gonzalez	**aye**	Keon Hardemon	**absent**
Danielle Cohen Higgins	**aye**	Eileen Higgins	**absent**
Kionne L. McGhee	**aye**	Raquel A. Regalado	**aye**
Micky Steinberg	**aye**		

The Chairperson thereupon declared this resolution duly passed and adopted this 21st day of June, 2023. 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