



Resilient Environment Department

ENVIRONMENTAL PERMITTING DIVISION

1 North University Drive, Mailbox 201, Plantation, Florida 33324 • 954-519-1483 • FAX 954-519-1412

May 21, 2025

City of Hollywood
c/o Jose Cartes
PO Box 229045
Hollywood, Florida 33022
E-mail: jcortes@hollywoodfl.org

To Whom It May Concern:

This is to notify you of the Resilient Environment Department's (RED) action concerning your applications received January 2, 2024. The applications have been reviewed for Environmental Resource Permit and Broward County Environmental Resource License.

Florida Department of Environmental Protection (DEP) Environmental Resource Permit – Granted

RED has the authority to review the project for compliance with Rule 62-330 and Chapter 373 of the Florida Administrative Code pursuant to an agreement between RED, DEP, and the South Florida Water Management District. The agreement is outlined in a document entitled "Delegation Agreement among the Florida Department of Environmental Protection, the South Florida Water Management District, and Broward County". Based on the information submitted, Environmental Resource Individual Permit No. **06-0454383-002** is hereby issued.

Broward County Environmental Resource License Review – Granted

RED has reviewed the project for compliance with Aquatic and Wetland Resource Protection Ordinance Sec. 27-331 through 27-341 of the Broward County Code. Based on the information submitted, Environmental Resource License No. **DF24-1003** is hereby issued.

The above named permittee/licensee is hereby authorized to perform the work per the approved drawings(s), plans, documents and specifications as submitted by the licensee, and made a part hereof. The above referenced approvals will remain in effect subject to the attached FDEP General Conditions, Broward County General Conditions, combined FDEP and Broward County Specific Conditions, and attached exhibits.

Should you wish to object to the Agency action or file a petition, please provide written objections, petitions and/or waivers within ten (10) days from the rendition of the action (refer to the attached "Variance and Administrative Review Procedures", Chapter 27 -10 through 27-14) to Director, EPD, 1 North University Drive Plantation, FL 33324. The "Notice of Rights" addresses the procedures to be followed if you desire a public hearing or review of the Agency's action.

Sincerely,

Linda Sunderland

Linda Sunderland, PWS
Environmental Program Supervisor
Environmental Permitting Division

May 21, 2025

Date

Enclosures:

County Environmental Resource License/State EI Environmental Resource Permit

One copy of stamped drawings (55 pages)

Broward County RED Variance and Administrative Review Procedures

Standard Manatee Conditions for In-Water Work, 2011, 2 pages

Florida EPPC's 2015 Invasive Plant Species List, 6 pages, can be downloaded at

<http://www.fleppc.org/list/2015FLEPPCLIST-LARGEFORMAT-FINAL.pdf>



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Permittee/Authorized Entity:

City of Hollywood
c/o Jose Cortes
PO Box 229045
Hollywood, FL 33022
Email: jcortes@hollywoodfl.org

Project Name:

Hollywood Tidal Flood Mitigation and Shoreline Protection (Sites 9, 10, 17, & 19)

Authorized Agent:

Cummins Cederberg
c/o Francesca Fourney
Phone: (954) 859-2921; Email: ffourney@cumminscederberg.com

Compliance Project Manager:

Linda Sunderland, Environmental Program Supervisor
Phone: (954) 591-1454; Email: LSunderland@Broward.org

Environmental Resource Permit (ERP) - Granted
State-owned Submerged Lands Authorization – Not Required
U.S. Army Corps of Engineers Authorization – Separate Corps Authorization Required

State of Florida ERP No.: 06-0454383-002
Broward County ERL No.: DF24-1003

ERP Issuance Date: May 21, 2025

ERP Construction Phase Expiration Date: May 21, 2030

Environmental Resource License Expiration Date: May 21, 2030

**STATE ENVIRONMENTAL RESOURCE INDIVIDUAL PERMIT and
COUNTY ENVIRONMENTAL RESOURCE LICENSE**

PROJECT DESCRIPTION

This project involves the installation of 4,302-linear feet of new seawall and environmental enhancements at multiple locations.

The scope of work at Site 9 involves: (1) removal of access docks and (2) installation of a new 548.8-linear foot sheet pile seawall; and (3) the creation of a 2600 square foot mangrove planter and 446 square foot cordgrass planter using revetment, fill, Armor Stone, and Bedding Stone. Approximately 103 square feet of mangroves will be altered to conduct the noted work.

The scope of work at Site 10 involves: (1) removal of access docks; (2) installation of a new 1518.8-linear foot sheet pile seawall; (3) the use of riprap in front of a portion of the seawall for scour protection; and (4) the creation of nine cordgrass planters using revetment, fill, Armor Stone, and Bedding Stone. Approximately 56 square feet of mangroves and 17.5 square feet of seagrasses will be altered to conduct the noted work.

The scope of work at Site 17 involves: (1) removal of access docks; and (2) installation of a new 885.3-linear foot sheet pile seawall. Approximately 3717 square feet of mangroves will be altered to conduct the noted work.

The scope of work at Site 19 involves: (1) removal of access docks; and (2) installation of a new 1,349.7-linear foot sheet pile seawall. Approximately 668.4 square feet of mangroves will be altered to conduct the noted work.

Total Mangrove Impacts

SITE	AREA of Proposed Impacts
Site 9	103 sq ft
Site 10	56 sq ft
Site 17	3717 sq ft
Site 19	668.4 sq ft
TOTAL IMPACTS	4542.3

Unavoidable impacts to 4342 square feet of mangrove wetlands shall be offset through the purchase of 0.03 saltwater mitigation credits calculated with WATER scores from the FPL/Everglades Mitigation Bank (EMB). The 17.5 square foot seagrass area impacts will be considered de minimis, therefor not requiring any additional mitigation. This license does not authorize impacts to any surface waters or other natural resources not described herein.

PROJECT LOCATION

This project is located at the following locations in the City of Hollywood – listed from North to South:

- Site 19, North Lake Drive: 514214026150, 514214024070
- Site 9, S North Lake Drive: 514214026160, 514214024070
- Site 10, N South Lake Drive: 514214020000, 514214024900, 514214026190
- Site 17, S South Lake Drive: 514214024910, 514214024900, 514214026200

Construction shall be in accordance with the ERL and ERP applications received on January 2, 2024, all additional information submitted, plans stamped by the Department (attached) and with all General and Specific Conditions of this license.

AUTHORIZATIONS

Environmental Resource Permit

The Department has determined that the activity qualifies for an Environmental Resource Permit. Therefore, the Environmental Resource Permit is hereby granted, pursuant to Part IV of Chapter 373, Florida Statutes (F.S.), and Chapter 62-330, Florida Administrative Code (F.A.C.).

Sovereignty Submerged Lands Authorization

As staff to the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees), the Department has determined the activity is not on submerged lands owned by the State of Florida. Therefore, your project is not subject to the requirements of Chapter 253, F.S., or Rule 18-21, F.A.C.

Federal Authorization

Your proposed activity as outlined on your application and attached drawings does not qualify for Federal authorization pursuant to the State Programmatic General Permit and a SEPARATE permit or authorization shall be required from the Corps. You must apply separately to the Corps using the appropriate federal application form (ENG 4345). More information about Corps permitting may be found online in the Jacksonville District Regulatory Division Sourcebook.

Authority for review - an agreement with the USACOE entitled "Coordination Agreement Between the U. S. Army Corps of Engineers (Jacksonville District) and the Florida Department of Environmental Protection, or Duly Authorized Designee, State Programmatic General Permit", Section 10 of the Rivers and Harbor Act of 1899, and Section 404 of the Clean Water Act.

Coastal Zone Management

Issuance of this authorization also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Zone Management Act.

Water Quality Certification

This permit also constitutes a water quality certification under Section 401 of the Clean Water Act, 33 U.S.C. 1341.

Other Authorizations

You are advised that authorizations or permits for this activity may be required by other federal, state, regional, or local entities including but not limited to local governments or municipalities. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

The activity described may be conducted only in accordance with the terms, conditions and attachments contained in this document. Issuance and granting of the permit and authorizations herein do not infer, nor guarantee, nor imply that future permits, authorizations, or modifications will be granted by the Department.

PERMIT

The activities described must be conducted in accordance with:

- **ERP Specific Conditions**
- **ERP General Conditions**
- **RED General Conditions**
- **RED Specific Conditions**
- **The limits, conditions and locations of work shown in the attached drawings**
- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to beginning the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings herein. If you are

Permittee/Licensee: **City of Hollywood - Hollywood Tidal Flood Mitigation and Shoreline Protection (Sites 9, 10, 17, & 19)**

Permit No.: **06-0454383-002**

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using a contractor, the contractor also should read and understand these conditions and drawings prior to beginning any activity. Failure to comply with these conditions, including any mitigation requirements, shall be grounds for the Department to revoke the permit and authorization and to take appropriate enforcement action. Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit, as described.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION SPECIFIC CONDITIONS

PROJECT FORMS & ATTACHMENTS

(1) The attached project drawings; the Standard Manatee Conditions for In-Water Work, 2011, which can be downloaded at https://www.fws.gov/northflorida/Manatee/Manate_Key_Programmatic/20130425_gd_Appendix%20B_2011_Standard%20Manatee%20Construction%20Conditions.pdf; and DEP forms 62-330.310(3), 62-330.310(1); 62-330.310(2); 62-330.340(1); and 62-330.350(1), which may be downloaded at <http://www.dep.state.fl.us/water/wetlands/erp/forms.htm> become part of this permit. If the permittee does not have access to the Internet, please contact Broward County at (954) 519-1205 to request the aforementioned forms and/or document(s).

(2) If the attached permit drawings conflict with the specific conditions, then the specific conditions shall prevail.

PRIOR TO CONSTRUCTION

(3) After selection of the contractor to perform the authorized activities and prior to the initiation of any work authorized by this permit, the permittee (or authorized agent) and the contractor shall attend a pre-construction conference with a representative of the County; Please contact the aquatic and wetland group at AWRLicense@Broward.org or at (954)519-1454.

(4) The permittee shall ensure that the permit conditions are explained to all construction personnel working on the project and for providing each contractor and subcontractor with a copy of this permit before the authorized work begins.

CONSTRUCTION ACTIVITIES

(5) Prior to the initiation of any work authorized by this permit, floating turbidity curtains with weighted skirts that extend to within one foot of the bottom shall be placed around the project site (i.e. dredge area and return water discharge point), and shall be maintained and remain in place for the duration of the project construction to ensure that turbid discharges do not occur outside the boundaries of the floating turbidity screens.

(6) All areas to be dredged shall be in accordance with the attached permit drawings and shall not exceed the areas and depths indicated on those drawings.

(7) The dredge material shall be mechanically dredged and deposited directly on a fully-contained spoil disposal cell upon a barge, then transported to an approved upland disposal location.

(8) There shall be no storage or stockpiling of tools, debris, and/or materials along the shoreline adjacent to waters of the state. All excess construction related materials and any other type of debris shall be removed from waters of the state within 14 days of completion of the work authorized in this permit. All construction equipment/tools and materials shall be transported to and from the site, as well as stored, on the construction barge.

(9) Riprap shall consist of unconsolidated boulders, rocks, or clean concrete rubble without exposed reinforcing rods or similar protrusions. The riprap shall be free of sediment, debris, and toxic or otherwise deleterious substance. The riprap shall have a diameter of 12 to 36 inches. (7) The slope of the riprap shall

be no steeper than 2H:1V (horizontal:vertical). The riprap shall extend no more than 8 feet waterward from the wetface of the seawall.

MONITORING/REPORTING REQUIREMENTS

(10) Turbidity levels outside the construction area shall not exceed 29 NTU's above background levels. The following measures shall be taken immediately by the permittee whenever turbidity levels within waters of the State surrounding the project site exceed 29 NTUs above background:

- (a) Notify the County at (954) 519-1454 at the time the violation is first detected.
- (b) Immediately cease all work contributing to the water quality violation.
- (c) Stabilize all exposed soils contributing to the violation. Modify the work procedures that were responsible for the violation, install more turbidity containment devices, and repair any non-functional turbidity containment devices.
- (d) As required, perform turbidity monitoring per Specific Conditions.
- (e) Resume construction activities once turbidity levels outside turbidity curtains fall below 29 NTUs

(11) Turbidity Monitoring: Water turbidity levels shall be monitored if a turbidity plume is observed outside the limits of the required turbidity control devices. Samples shall be taken every four hours, one foot above the bottom, mid-depth, and one-foot below the surface at monitoring stations located as follows:

- (a) Approximately 100 feet up-current of the work sites and clearly outside the influence of construction activities. (This shall serve as the natural background sample against which other turbidity readings shall be compared.)
- (b) Directly outside the turbidity curtains surrounding the work sites and within the densest portion of any visible turbidity plume. (This sample shall serve as the compliance sample.)

(12) Turbidity Monitoring Reports. During dredging activities, the permittee or permittee's contractor shall collect the following turbidity monitoring data at the frequency and water depths directed by Specific Condition 11:

- (a) Date and time of sampling event
- (b) Turbidity sampling results (background NTUs, compliance NTUs, and the difference between them)
- (c) Description of data collection methods
- (d) An aerial map indicating the sampling locations
- (e) Depth of sample(s)
- (f) Weather conditions at times of sampling
- (g) Tidal stage and direction of flow

Data shall be collected in a turbidity log and shall include a statement by the individual responsible for implementation of the sampling program attesting to the authenticity, precision, limits of detection, and accuracy of the data. The turbidity log shall be scanned and sent on a weekly basis to the Department's Compliance Project Manager, Linda Sunderland, by email at AWRLicense@broward.org. The subject line of the email shall include the project name, permit number, and the title "Turbidity Monitoring Reports."

MANATEE CONDITIONS

(13) The Standard Manatee Construction Conditions for In-water Work (2011) must be followed for all in-water activity.

LISTED SPECIES

(16) This permit does not authorize the permittee to cause any adverse impact to or "take" of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or applicant associated with this project. Please refer to Chapter 68A-27 of the

Florida Administrative Code for definitions of “take” and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a “take” permit cannot be issued. Requests for further information or review can be sent to FWCConservationPlanningServices@MyFWC.com.

ERP GENERAL CONDITIONS FOR INDIVIDUAL PERMITS

The following general conditions are binding on all individual permits issued under chapter 62-330, F.A.C., except where the conditions are not applicable to the authorized activity, or where the conditions must be modified to accommodate project-specific conditions.

(1) All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with Rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

(2) A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

(3) Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector’s Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

(4) At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), “Construction Commencement Notice,” [October 1, 2013], which is incorporated by reference in paragraph 62-330.350(1)(d), F.A.C., indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C. If available, an Agency website that fulfills this notification requirement may be used in lieu of the form.

(5) Unless the permit is transferred under Rule 62-330.340, F.A.C., or transferred to an operating entity under Rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms and conditions of the permit for the life of the project or activity.

(6) Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:

- (a) For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex – “Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit” [Form 62-330.310(3)]; or
- (b) For all other activities – “As-Built Certification and Request for Conversion to Operational Phase” [Form 62-330.310(1)].
- (c) If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

- (7) If the final operation and maintenance entity is a third party:
- (a) Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.3 of Volume I) as filed with the Department of State, Division of Corporations and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the County in which the activity is located.
 - (b) Within 30 days of submittal of the as-built certification, the permittee shall submit "Request for Transfer of Environmental Resource Permit to the Perpetual Operation Entity" [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.
- (8) The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.
- (9) This permit does not:
- (a) Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
 - (b) Convey to the permittee or create in the permittee any interest in real property;
 - (c) Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
 - (d) Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.
- (10) Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.
- (11) The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.
- (12) The permittee shall notify the Agency in writing:
- (a) Immediately if any previously submitted information is discovered to be inaccurate; and
 - (b) Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.
- (13) Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.
- (14) If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The applicant shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review

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Section at (850)-245-6333. Project activities shall not resume without verbal and/or written authorization. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

(15) Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

(16) The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

(17) This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

(18) A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with subsection 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

RED GENERAL CONDITIONS:

(1) The terms, conditions, requirements, limitations and restrictions set forth herein are accepted by the licensee and enforceable by RED pursuant to this chapter. RED will review this license periodically and may revoke the license, initiate administrative and/or judicial action for any violation of the conditions by the licensee, its agents, employees, servants or representatives or principals.

(2) This license is valid only for the specific uses set forth in the license application, and any deviation from the approved uses may constitute grounds for revocation and enforcement action by RED.

(3) In the event the licensee is temporarily unable to comply with any of the conditions of the license, the licensee shall notify RED within twelve (12) hours. Within five (5) working days of the event, the licensee shall submit a written report to RED that describes the incident, its cause, the measures being taken to correct the problem and prevent its reoccurrence, the owner's intention toward repair, replacement, and reconstruction of destroyed facilities, and a schedule of action leading toward operation within the license conditions.

(4) The issuance of this license does not convey any vested rights or exclusive privileges, nor does it authorize any injury to public or private property or any invasion of personal rights, or any violations of federal, state or local laws or regulations.

(5) This license must be available for inspection on the licensee's premises during the entire life of the license.

(6) By accepting this license, the licensee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, that are submitted to RED, may be used by RED as evidence in any enforcement proceeding arising under Chapter 27, except where such use is prohibited by § 403.111, F.S.

(7) The licensee agrees to comply with Chapter 27, as amended.

(8) Any new owner of a licensed facility shall apply by letter for a transfer of license within thirty (30) days after sale or legal transfer. The transferor shall remain liable for performance in accordance with the license until the

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transferee applies for, and is granted the transfer of license. The transferee shall also be liable for performance in accordance with the license.

(9) The licensee, by acceptance of this license, specifically agrees to allow access to the licensed source at reasonable times by RED personnel for the purposes of inspection and testing to determine compliance with this license and this Chapter 27.

(10) This license does not constitute a waiver or approval of any other license that may be required for other aspects of the total project.

(11) If the licensee wishes to renew a license or extend its term, the licensee shall make application sixty (60) days prior to its expiration. Expired licenses are not renewable.

(12) In addition to the general conditions set forth above, each license issued by RED shall contain specific conditions determined by site conditions and requirements pursuant to the regulations as determined by the director of RED. The licensee agrees that specific conditions are enforceable by RED for any violation thereof.

(13) Enforcement of the terms and provisions of this license shall be at the reasonable discretion of RED, and any forbearance on behalf of RED to exercise its rights hereunder in the event of any breach by the licensee, shall not be deemed or construed to be a waiver of RED's rights hereunder.

RED SPECIFIC CONDITIONS:

A. STANDARD CONDITIONS

(1) **Notify the Development and Environmental Regulation Division in writing (Fax: 954/519-1412, or email) a minimum of 48 hours prior to project commencement and a maximum of 48 hours after project completion.** The notification shall include the name of the contractor authorized to perform the licensed activities. Failure to comply with this condition will result in enforcement action.

(2) Any project caused environmental problem(s) shall be reported immediately to the Resilient Environment Department Environmental Response Line at 954-519-1499.

(3) All project generated solid waste and/or spoil material must be disposed of in a suitable approved in accordance with current regulations at an upland location (not including surface waters and wetlands).

(4) All watercraft associated with the construction and use of the permitted structure shall only operate within waters of sufficient depth so as to preclude bottom scouring or prop dredging. Specifically, there shall be a minimum 12-inch clearance between the deepest draft of the vessel (with the motor in the down position) and the top of any submerged resources or canal bottom at mean low water.

(5) Turbidity screens, silt fences, or equivalent shall be properly employed and maintained as necessary to effectively contain suspended sediments during construction activities. **Dredging, filling, excavation, seawall removal, seawall construction, and other projects which result in similar degrees of disturbance to wet sediments shall in all cases employ turbidity control measures designed to effectively enclose the entire work area.**

(6) Turbidity levels shall be monitored and recorded if a visible turbidity plume is observed leaving the site during construction activities. If monitoring reveals that turbidity levels exceed 29 NTUs above natural background 50 feet downstream of the point of discharge, project activities shall immediately cease, and work shall not resume

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until turbidity levels drop to within these limits [62-302.530(69) FAC].

(7) Only clean fill shall be placed in the water bodies being filled. Any fill material used shall be free of garbage, rubbish, refuse, asphalt, hazardous materials, organic matter such [as] wood, lumber, tree or tree trimmings, or other contaminants. The disposal of any putrescible or deleterious debris in any water body is prohibited.

B. CONSTRUCTION CONDITIONS

(1) No dredging is authorized by this license.

(2) If the approved license drawings and/or license attachments/plans conflict with the specific conditions, then the specific conditions shall prevail.

(3) Demolition and construction related debris must be disposed of at an approved upland location and may not be left in the waterway.

(4) This license does not eliminate the necessity to obtain any required federal, state, local or special district authorizations prior to the start of any activity approved by this license.

C. SEAGRASS CONDITIONS

(1) To minimize impacts to seagrasses from construction-related activities, pile driving shall be the method used to install all pilings.

(2) No permanent mooring of vessels will occur over seagrasses unless the water depth is three (3) feet or greater at mean low water.

D. MANGROVE CONDITIONS

(1) Adjacent wetland areas shall be protected from construction activities and construction-related runoff through the use of siltation screening and/or haybales around the perimeter of the scrapedown area adjacent to wetlands. The erosion protection devices shall be placed before the initiation of any other ground-disturbing activities and shall remain in place until all ground disturbing activities within the project have concluded, and the site has stabilized, at which time the screening or haybales shall be removed completely from the site.

(2) Spoil generated from the excavation authorized by this license must be placed on the upland portion of the site and must be contained in such a manner as to prevent erosion into the adjacent mangrove wetlands or other surface waters.

E. TURBIDITY CONDITIONS

(1) All watercraft associated with the proposed work and/or use of the permitted structure shall only operate within waters of sufficient depth to preclude bottom scouring or prop dredging.

(2) The contractor shall be responsible to have functional turbidity monitoring equipment on site during all construction activities and shall be responsible for training construction personnel in its calibration, operation, and related license requirements.

(3) Return water containment booms shall not be removed until the turbidity levels in the containment area drop below the above referenced 29 NTU threshold.

(4) If a visible turbidity plume is observed leaving the site at any time, the licensee shall:

- (a) Immediately cease all work contributing to the water quality violation. Operations may not resume until the Department gives authorization to do so.
- (b) Notify the RED immediately at (954) 519-1499, referencing the license number and project name.
- (c) Stabilize all exposed material contributing to the water quality violation. Modify the work procedures that were responsible for the violation, and install more turbidity containment devices and/or repair any non-functioning turbidity containment devices.

(5) Turbidity screens, booms, curtains, or equivalent shall be affixed, anchored, or weighted to the existing seawall (not attached to the barge) shall span from water's surface to the substrate and shall be maintained as necessary during construction activities to minimize migration of turbidity into the adjacent waterway.

(6) Connected turbidity curtain segments shall be overlapped and tied at the top and bottom so as to prevent turbidity from escaping through gaps between segments.

(7) Turbidity curtains shall be deployed to effectively encapsulate the work area without impeding navigation in public waterways.

F. SEAWALL CONDITIONS

(1) No dredging other than that required for proper installation of the proposed seawall paneling is authorized by this license.

(2) Backfill material shall be clean fill as defined by Section 27-332 of Broward County Code of Ordinances.

G. STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

(1) All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The licensee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.

(2) All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

(3) Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.

(4) All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shut down if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.

(5) Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com

Permittee/Licensee: City of Hollywood - Hollywood Tidal Flood Mitigation and Shoreline Protection (Sites 9, 10, 17, & 19)

Permit No.: 06-0454383-002

ERL No.: DF24-1003

(6) Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the licensee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads Caution: Boaters must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut-down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at MyFWC.com/manatee. Questions concerning these signs can be sent to the email address listed above.

H. STANDARD SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

(1) The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.

(2) The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.

(3) Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.

(4) All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.

(5) If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.

(6) Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824- 5312) and the local authorized sea turtle stranding/rescue organization.

(7) Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

I. A COPY OF THIS LICENSE SHALL BE KEPT ON SITE DURING ALL PHASES OF LICENSED CONSTRUCTION.

NOTICE OF RIGHTS

This action is final and effective on the date filed with the Clerk of the Department unless a petition for an administrative hearing is timely filed under Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. On the filing of a timely and sufficient petition, this action will not be final and effective until further order of the Department. Because the administrative hearing process is designed to formulate final agency action, the hearing process may result in a modification of the agency action or even denial of the application.

Permittee/Licensee: City of Hollywood - Hollywood Tidal Flood Mitigation and Shoreline Protection (Sites 9, 10, 17, & 19)

Permit No.: 06-0454383-002

ERL No.: DF24-1003

Page 11 of 14

Petition for Administrative Hearing

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. Pursuant to Rule 28-106.201, F.A.C., a petition for an administrative hearing must contain the following information:

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

The petition must be filed (received by the Clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000. Also, a copy of the petition shall be mailed to the applicant at the address indicated above at the time of filing.

Time Period for Filing a Petition

In accordance with Rule 62-110.106(3), F.A.C., petitions for an administrative hearing by the applicant must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who has asked the Department for notice of agency action may file a petition within 21 days of receipt of such notice, regardless of the date of publication. The failure to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

Extension of Time

Under Rule 62-110.106(4), F.A.C., a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline for filing a petition for an administrative hearing. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

Mediation

Mediation is not available in this proceeding.

FLAWAC Review

The applicant, or any party within the meaning of Section 373.114(1)(a) or 373.4275, F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1) or 373.4275,

Permittee/Licensee: City of Hollywood - Hollywood Tidal Flood Mitigation and Shoreline Protection (Sites 9, 10, 17, & 19)

Permit No.: 06-0454383-002

ERL No.: DF24-1003

F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when this order is filed with the Clerk of the Department.

Judicial Review

Once this decision becomes final, any party to this action has the right to seek judicial review pursuant to Section 120.68, F.S., by filing a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this action is filed with the Clerk of the Department.

Executed in Plantation, Florida.

BROWARD COUNTY RESILIENT ENVIRONMENT DEPARTMENT as delegated by the STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Linda Sunderland

May 21, 2025

Linda Sunderland
Environmental Program Supervisor
Environmental Permitting Division

Date

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this determination, including all copies were sent on the filing date below to the above listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to 120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Michelle Decker May 21, 2025
Clerk Date

CITY OF HOLLYWOOD FLORIDA

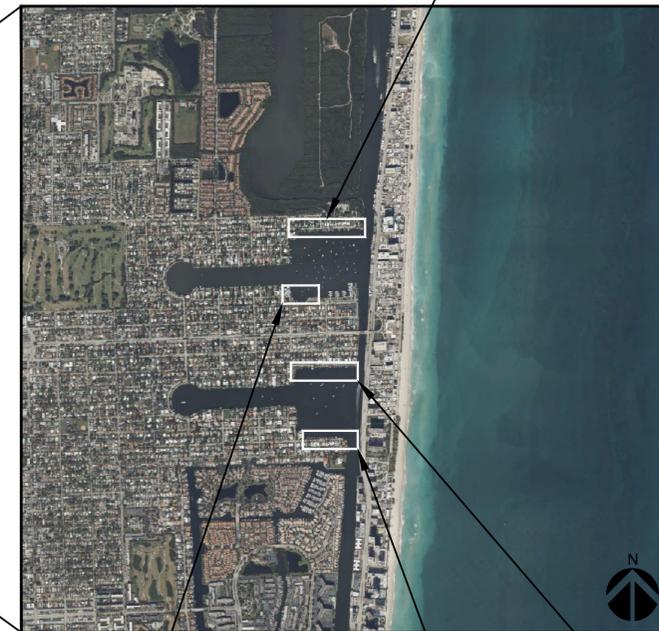
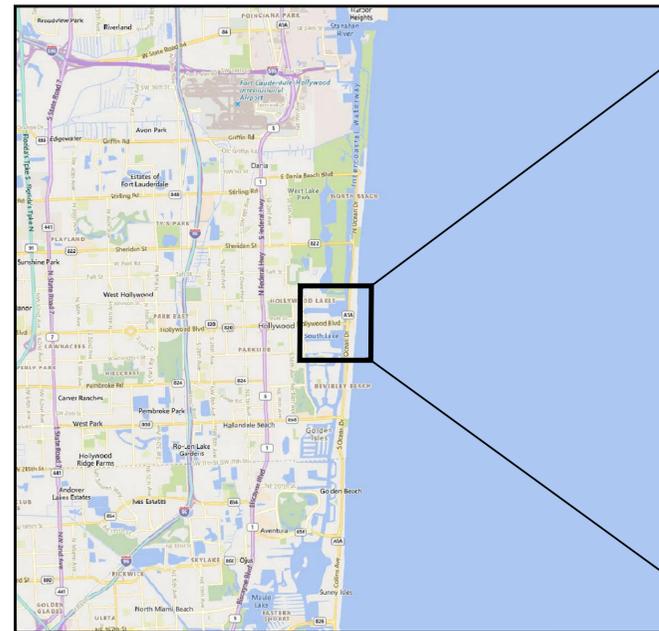
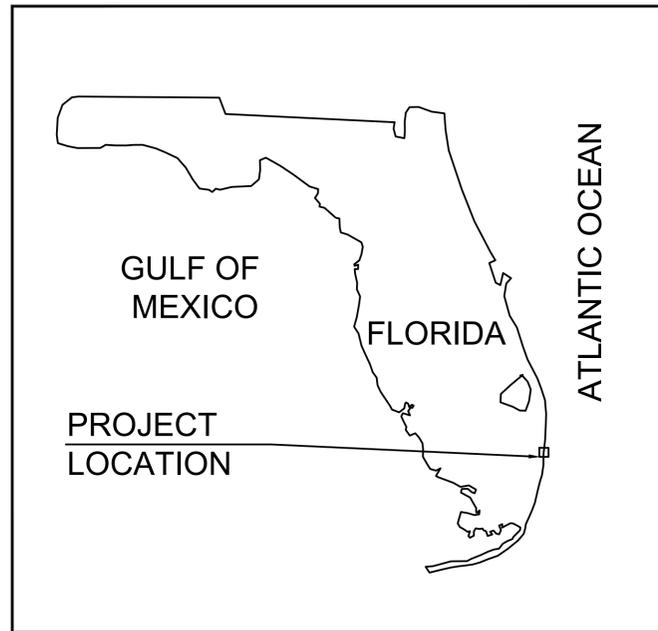
TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

SITES 9, 10, 17 & 19

CITY OF HOLLYWOOD PROJECT NO. DCM-001187



SITE 19
PROJECT LOCATION
NORTH LAKE DR.



SITE 9
PROJECT LOCATION
S NORTH LAKE DR

SITE 10
PROJECT LOCATION
N SOUTH LAKE DR

SITE 17
PROJECT LOCATION
S SOUTH LAKE DR

OWNER:

CITY OF HOLLYWOOD
DEPARTMENT OF DESIGN AND
CONSTRUCTION MANAGEMENT
2600 HOLLYWOOD BLVD.
HOLLYWOOD, FL 33020

ENGINEER:

CUMMINS | CEDERBERG
Coastal & Marine Engineering

MIAMI | FORT LAUDERDALE | JUPITER
SARASOTA | ST. PETERSBURG | TALLAHASSEE
TEL: +1 305-741-6155 FAX: 305-974-1969
WWW.CUMMINSCEDERBERG.COM

SUBCONSULTANT:



NOT FOR CONSTRUCTION

PERMIT DRAWINGS
FOR REGULATORY REVIEW ONLY
10/01/2024



PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
SHORELINE PROTECTION
PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN
AND CONSTRUCTION
MANAGEMENT

2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020



PRIME CONSULTANT:
CUMMINS CEDERBERG
COASTAL, MARINE & ENVIRONMENTAL
888 S. ANDREWS AVE. STE. 206
FORT LAUDERDALE, FL 33304
TEL: 954-880-1646
C.O.A. #29062

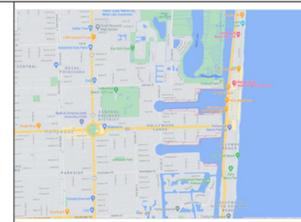
SUBCONSULTANTS:
**CURTIS + ROGERS
DESIGN STUDIO, INC.**
LANDSCAPE ARCHITECTURE
3440 HOLLYWOOD BLVD. STE. 415
HOLLYWOOD, FL 33021 TEL: 954-610-4412

NIV5
GEOTECHNICAL ENGINEER
200 SOUTH PARK RD. STE. 350
HOLLYWOOD, FL 33021
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KEITH & ASSOCIATES
SURVEYOR
301 E. ATLANTIC BLVD.
POMPANO BEACH, FL 33060
TEL: 954-788-3400

CHEN MOORE AND ASSOC
CIVIL ENGINEER
500 W. CYPRUSS CREEK RD. STE. 600
FORT LAUDERDALE, FL 33309
TEL: 954-730-0707

BRIZAGA
PUBLIC OUTREACH
2101 W. COMMERCIAL BLVD. STE. 4600
FORT LAUDERDALE, FL 33309
TEL: 954-834-3533



Site Vicinity Map



Approximate Scale in Feet

LEGEND:

- ⊕ B-1 - Number & Approximate Location of Test Boring.
- ▲ P-1 - Number & Approximate Location of Percolation Test.

NOTES:

1. Test locations shown are approximate.
2. Test location symbols are not to scale.
3. Base drawing was taken from Aerial View, Google Earth, 2021.

BORING NUMBER B-7

PROJECT NAME City of Hollywood Tidal Flooding Mitigation - Phase 1 Priority 1
PROJECT NUMBER 16959 PROJECT LOCATION City of Hollywood, Hollywood, Florida
DATE STARTED 2/5/21 COMPLETED 2/5/21 GROUND ELEVATION 3 ft NAVD, est. HOLE SIZE 3 inches
DRILLING CONTRACTOR NV5 GROUND WATER LEVELS: 2.7 ft / Elev 0.3 ft
DRILLING METHOD Rotary drill with mud, wash & casing
LOGGED BY D. Correal / Y. Parada CHECKED BY N.Vieira

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION (ft., NAVD)
0	SPT 6-5-4-6 (9)				SAND, loose, fine, gray, with a trace limestone fragments and roots	0
2.5	SPT 2-3-3-4 (6)		SP		SAND, loose, fine, gray, with a trace of limestone fragments	0
5	SPT 6-5-10-8 (15)				SAND, medium dense, fine, brown to gray, with a trace of limestone fragments	0
7.5	SPT 3-5-7-21 (12)				SAND, medium dense, fine, brown to gray, with a trace of limestone fragments	-5 -5.0
10	SPT 22-40-12-8 (52)		GP		LIMESTONE FRAGMENTS, very dense, dark brown, with sand	-7.0
12.5	SPT 5-8-7-7 (15)				LIMESTONE, very soft, light brown	-7.0
15	SPT 19-17-10-10 (27)				LIMESTONE, soft, light brown	-10
17.5	SPT 15-13-12-12 (25)				LIMESTONE, soft, light brown	-10
20	SPT 10-8-5-7 (13)		LS		LIMESTONE, very soft, light brown	-15
22.5	SPT 6-10-9-11 (19)				LIMESTONE, very soft, light brown	-20
25	SPT 15-12-10-7 (22)				LIMESTONE, soft, light brown	-25
30					Boring terminated at 30.0 feet.	-27.0

PAGE A-7

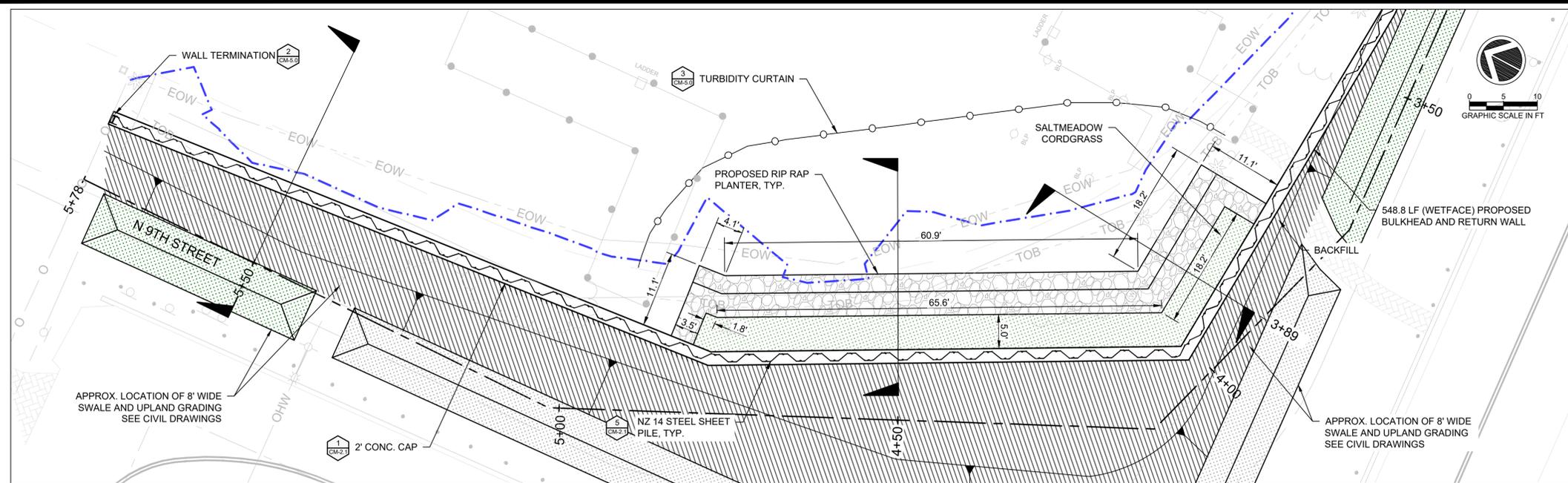
ISSUE	DATE	PERMIT DRAWINGS SUBMISSION / REVISION
	10/01/2024	

CC PROJECT NO:	84300
DRAWN	GK
CHECKED	JPC/SRC
SCALE	AS SHOWN

SHEET TITLE
**SITE 9
GEOTECHNICAL
BORINGS**

CM-1.3

NIV5	DRAWING TITLE:	Site Vicinity Map & Test Location Plan	DWN BY:	NVS
	PROJECT NAME:	City of Hollywood Tidal Flooding Mitigation - Phase 1 Priority 1	CKD BY:	ELG
	PROJECT LOCATION:	City of Hollywood, Hollywood, Florida	APD BY:	
	PROJECT NO:	16959	DATE:	02/01/2021
	DWG NO:	1		



SITE 9 TOTAL MANGROVE IMPACT = 103.1 SF
MANGROVE IMPACT BELOW MHW = 0 SF

LEGEND:

SEAGRASS SPECIES

- H. johnsonii
- H. decipiens
- H. decipiens/H. wrightii
- H. decipiens/H. wrightii/H. johnsonii
- H. decipiens/H. johnsonii/T. tesudinum

SEAGRASS DENSITY

PATCH

- LOW
- MODERATE-HIGH

EDGE

- LOW
- MODERATE-HIGH

BED

- LOW
- MODERATE-HIGH

MANGROVE HABITAT POINT

LANDWARD EDGE OF MANGROVE

MEAN HIGH WATER LINE (MHW) = +0.33' NAVD88

PROJECT:
CITY OF HOLLYWOOD TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN AND CONSTRUCTION MANAGEMENT
2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020



PRIME CONSULTANT:
CUMMINS CEDERBERG
COASTAL, MARINE & ENVIRONMENTAL
888 S. ANDREWS AVE. STE. 206
FORT LAUDERDALE, FL 33304
TEL: 954-880-1646
C.O.A. #29062

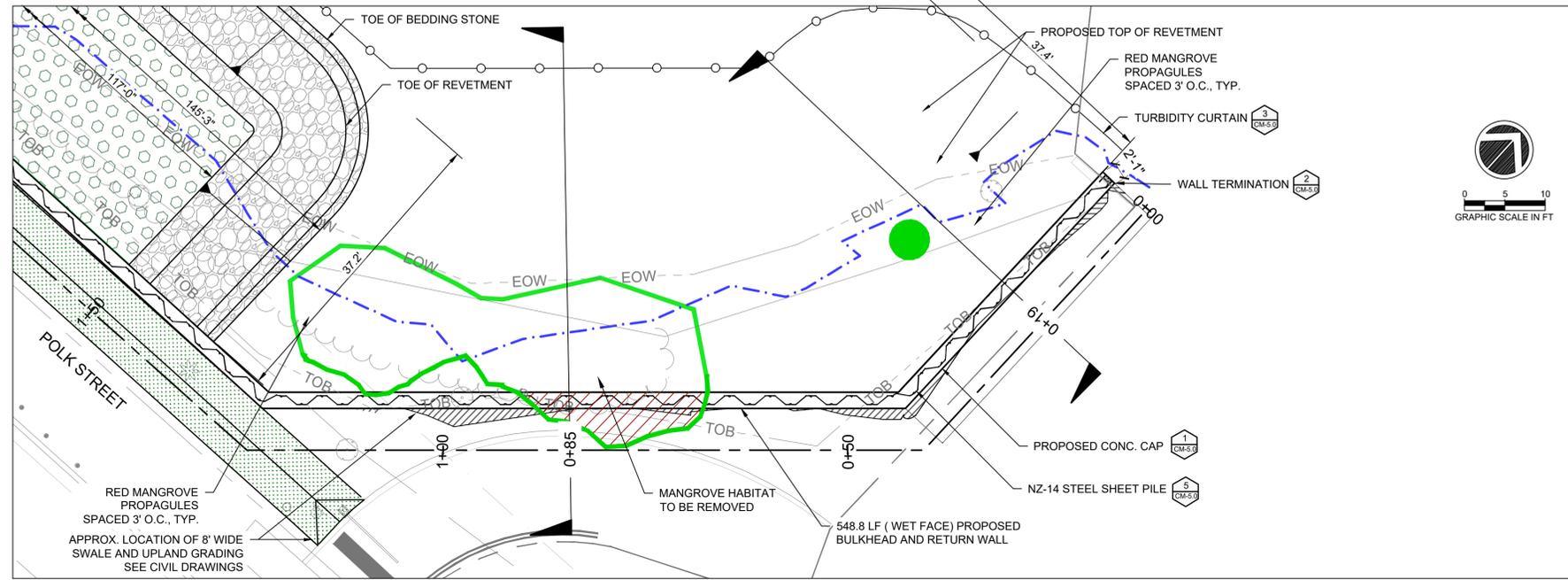
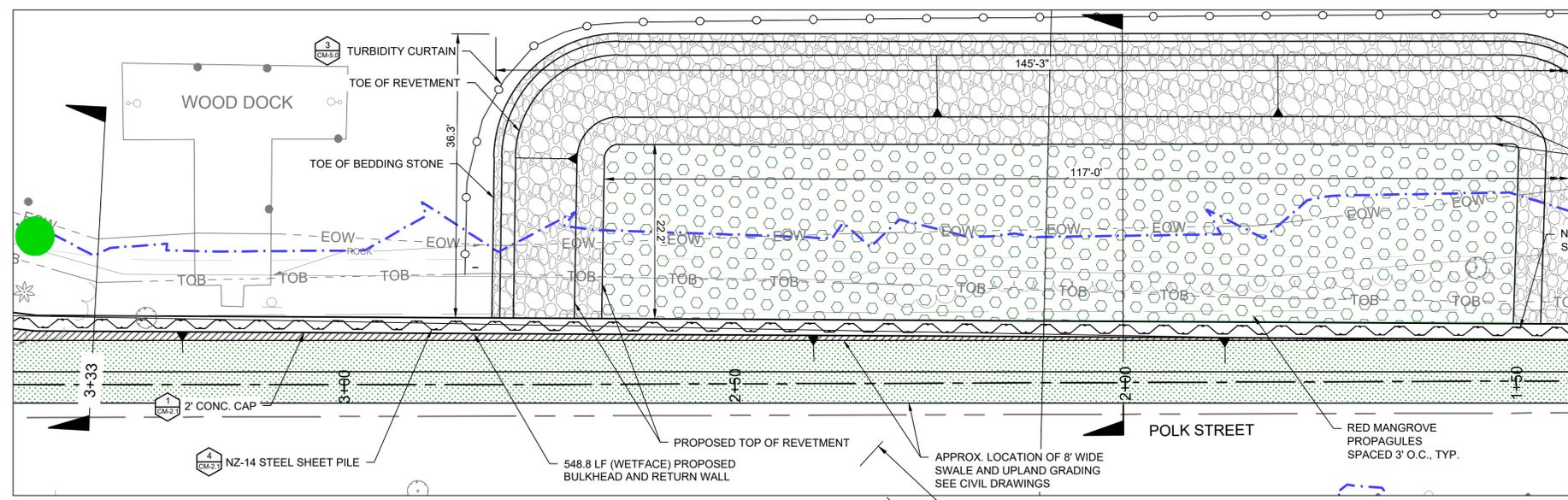
SUBCONSULTANTS:
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HOLLYWOOD, FL 33021 TEL: 954-610-4412

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ITEM	L.F.
TOTAL NZ 14 SHEET PILE	548.8
NZ 14 STEEL SHEET PILE BELOW MHW LINE (0.33' NAVD)	0.0

ITEM	S.F.	CY
TOTAL SAND FILL	2,721.1	63.8
SAND FILL BELOW MHW LINE (+0.33' NAVD)	1,193.0	63.8
TOTAL REVETMENT FILL	2,560.1	130.1
REVETMENT FILL BELOW HAT LINE (+0.33' NAVD)	2,560.1	55.4
BACKFILL LANDWARD OF SHEET PILE WALL BELOW MHE LINE (+0.33' NAVD)	0.0	0
TOTAL ARMOR STONE	2,928.7	336.1
ARMOR STONE BELOW MHW LINE (+0.33' NAVD)	2,035.3	238.5
TOTAL BEDDING STONE	3,328.4	89.6
BEDDING STONE BELOW MHW LINE (+0.33' NAVD)	2,228.8	61.9
MANGROVE PROPAGULES	2,626.9	N/A
CORDGRASS	446.6	N/A
TOTAL EXCAVATION SEAWARD OF BULKHEAD	5,949.5	260.9
EXCAVATION SEAWARD OF BULKHEAD BELOW MHW LINE (+0.33' NAVD)	3,421.8	119.4

NOTE:
TURBIDITY CURTAINS TO BE UTILIZED FOR ANY WORK WATERWARD OF MEAN HIGH WATER.

ISSUE	DATE	PERMIT DRAWINGS	SUBMISSION / REVISION
	10/01/2024		

CC PROJECT NO: 84300
DRAWN: GK
CHECKED: JPC/SRC
SCALE: AS SHOWN

SHEET TITLE
SITE 9
PROPOSED
CONDITIONS PLAN

CM-1.6

PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
SHORELINE PROTECTION
PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN
AND CONSTRUCTION
MANAGEMENT

2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020



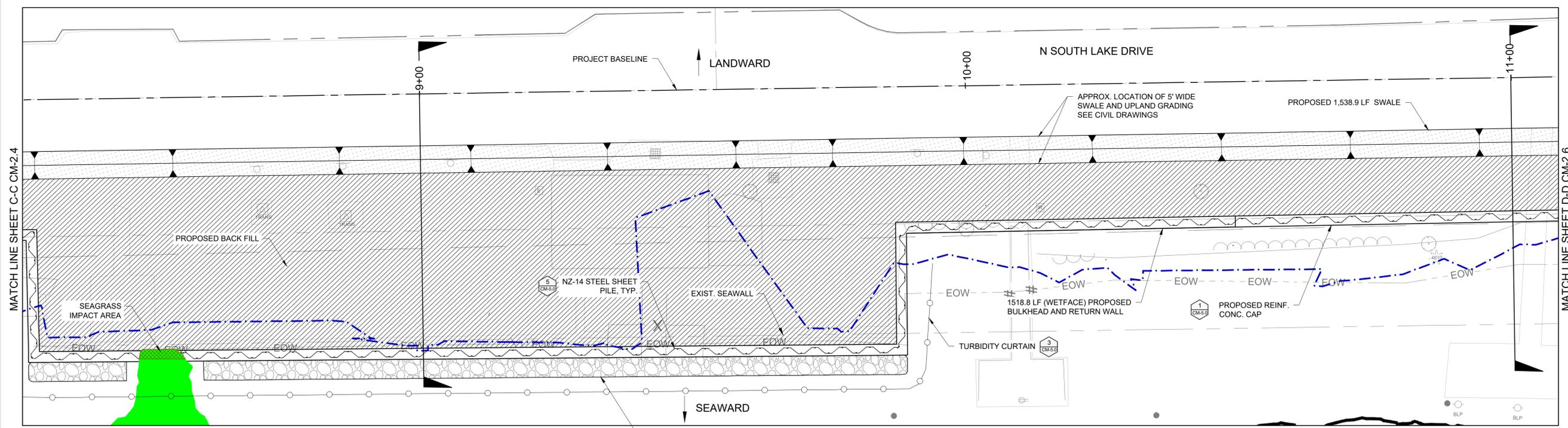
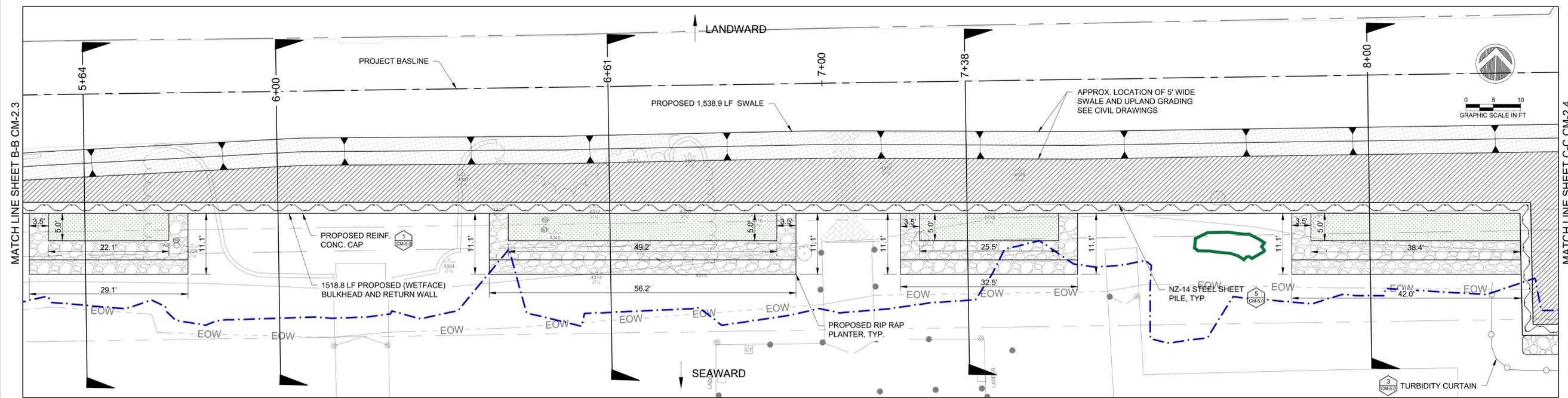
PRIME CONSULTANT:
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LEGEND:

SEAGRASS SPECIES

- H. johnsonii
- H. decipiens
- H. decipiens/H. wrightii
- H. decipiens/H. wrightii/H. johnsonii
- H. decipiens/H. johnsonii/T. testudinum

SEAGRASS DENSITY

PATCH

- LOW
- MODERATE-HIGH

EDGE

- LOW
- MODERATE-HIGH

BED

- LOW
- MODERATE-HIGH
- MANGROVE HABITAT POINT
- LANDWARD EDGE OF MANGROVE
- MEAN HIGH WATER LINE (MHW) = +0.33' NAVD88
- PROPOSED SALTMEADOW CORDGRASS
- APPROX. 5' WIDE SWALE
- BACKFILL
- TURBIDITY CURTAIN
- RIPRAP TOE PROTECTION

SITE 10 TOTAL MANGROVE IMPACT = 56.1 SF
MANGROVE IMPACT BELOW MHW = 0 SF
SITE 10 TOTAL SEAGRASS IMPACT = 17.6 SF

NOTE:
TURBIDITY CURTAINS TO BE UTILIZED FOR ANY
WORK WATERWARD OF MEAN HIGH WATER.

ISSUE	DATE	PERMIT DRAWINGS	SUBMISSION / REVISION
	10/01/2024		

CC PROJECT NO:	84300
DRAWN	GK
CHECKED	JPC/SRC
SCALE	AS SHOWN

SHEET TITLE
**SITE 10
PROPOSED
CONDITIONS**

CM-2.4

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 Broward County and State ERP
 Page 14 of 55
 05/21/2025

PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
SHORELINE PROTECTION
PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN
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MANAGEMENT

2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020



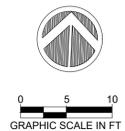
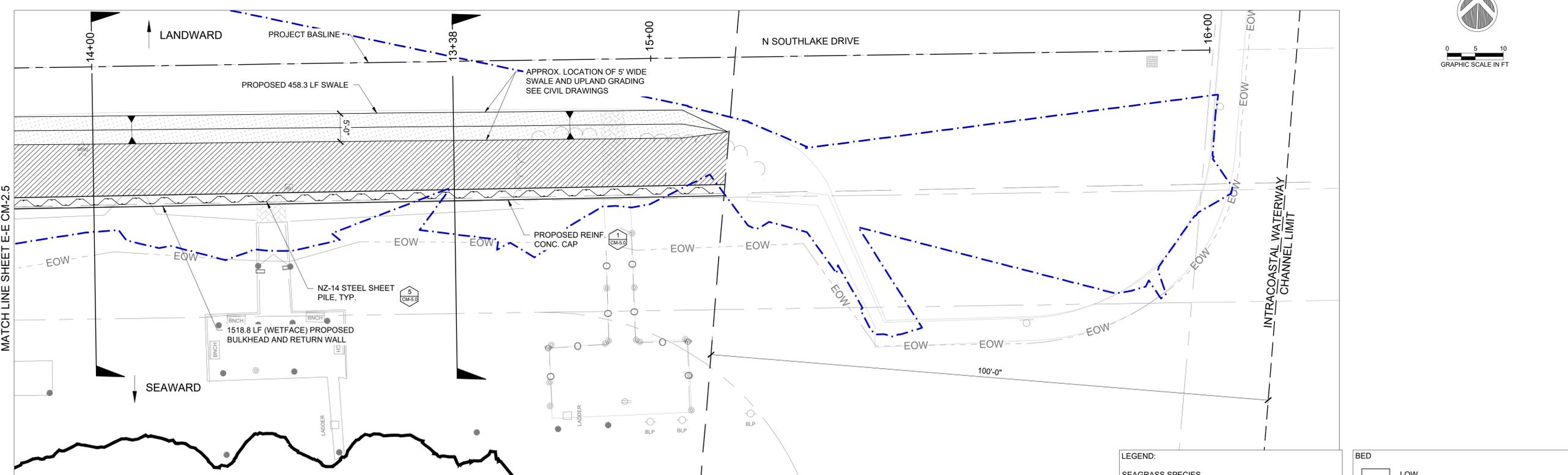
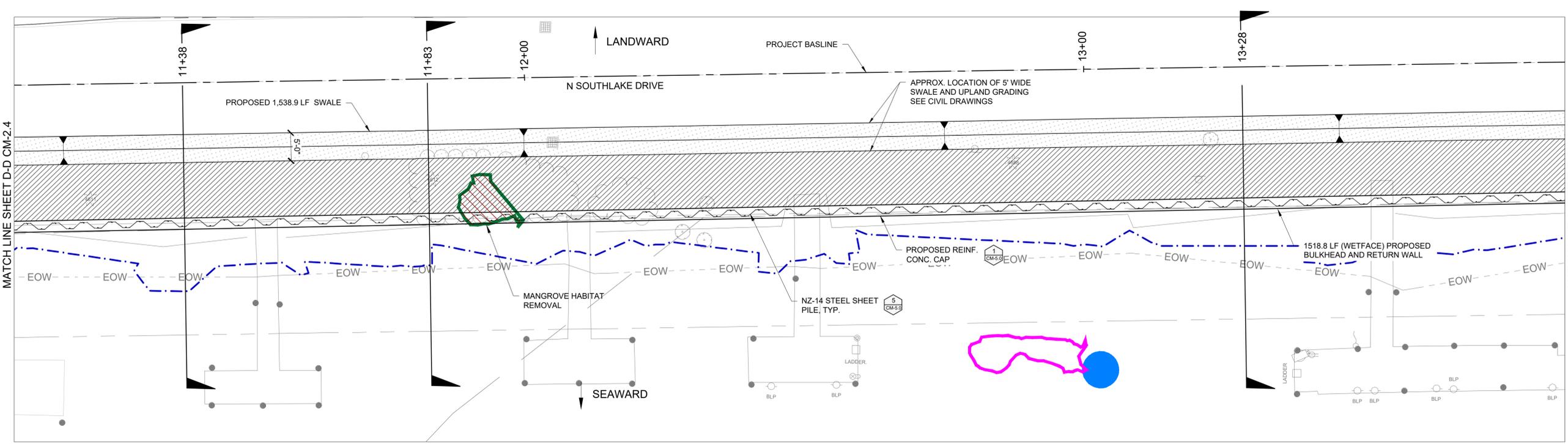
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888 S. ANDREWS AVE. STE. 206
FORT LAUDERDALE, FL 33304
TEL: 954-880-1846
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CIVIL ENGINEER
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TEL: 954-730-0707

BRIZAGA
PUBLIC OUTREACH
2101 W. COMMERCIAL BLVD. STE. 4600
FORT LAUDERDALE, FL 33309
TEL: 954-834-3533



SITE 10 TOTAL MANGROVE IMPACT = 56.1 SF
MANGROVE IMPACT BELOW MHW = 0 SF
SITE 10 TOTAL SEAGRASS IMPACT = 17.6 SF

NOTE:
TURBIDITY CURTAINS TO BE UTILIZED FOR ANY
WORK WATERWARD OF MEAN HIGH WATER.

ITEM	L.F.
TOTAL NZ 14 SHEET PILE	1,518.8
NZ 14 STEEL SHEET PILE BELOW MHW LINE (+0.33' NAVD)	215.3

ITEM	S.F.	CY
TOTAL SAND FILL	2131.9	4.1
SAND FILL BELOW MHW LINE (+0.33' NAVD)	81.4	3.0
BACKFILL LANDWARD OF SHEET PILE WALL BELOW MHW LINE (+0.33' NAVD)	503.3	68.6
TOTAL ARMOR STONE	2,019.8	223.3
ARMOR STONE BELOW MHW LINE (+0.33' NAVD)	81.4	8.6
TOTAL EXCAVATION LANDWARD OF BULKHEAD	3,647.7	4.5
EXCAVATION LANDWARD OF BULKHEAD BELOW MHW LINE (+0.33' NAVD)	81.3	3.0

LEGEND:

SEAGRASS SPECIES

- H. johnsonii
- H. decipiens
- H. decipiens/H. wrightii
- H. decipiens/H. wrightii/H. johnsonii
- H. decipiens/H. johnsonii/T. tesudinum

SEAGRASS DENSITY

PATCH

- LOW
- MODERATE-HIGH

EDGE

- LOW
- MODERATE-HIGH

BED

- LOW
- MODERATE-HIGH

- MANGROVE HABITAT POINT
- LANDWARD EDGE OF MANGROVE
- MEAN HIGH WATER LINE (MHW) = +0.33' NAVD88
- PROPOSED SALTMEADOW CORDGRASS
- APPROX. 5' WIDE SWALE
- BACKFILL
- TURBIDITY CURTAIN
- RIPRAP TOE PROTECTION

ISSUE	DATE	PERMIT DRAWINGS	SUBMISSION / REVISION
	10/01/2024		

CC PROJECT NO:	84300
DRAWN	GK
CHECKED	JPC/SRC
SCALE	AS SHOWN

SHEET TITLE
**SITE 10
PROPOSED
CONDITIONS**

CM-2.5

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PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
SHORELINE PROTECTION
PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN
AND CONSTRUCTION
MANAGEMENT
2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020



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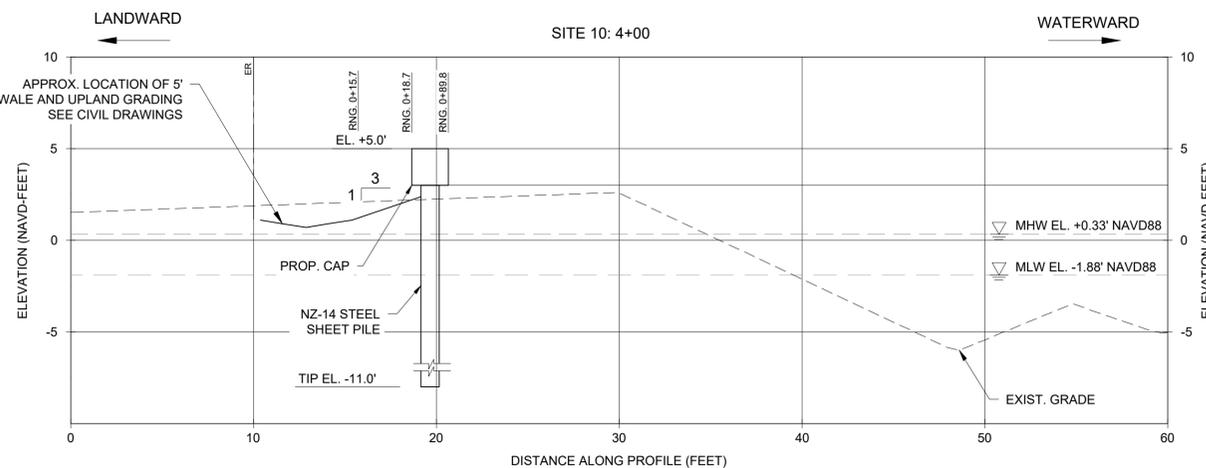
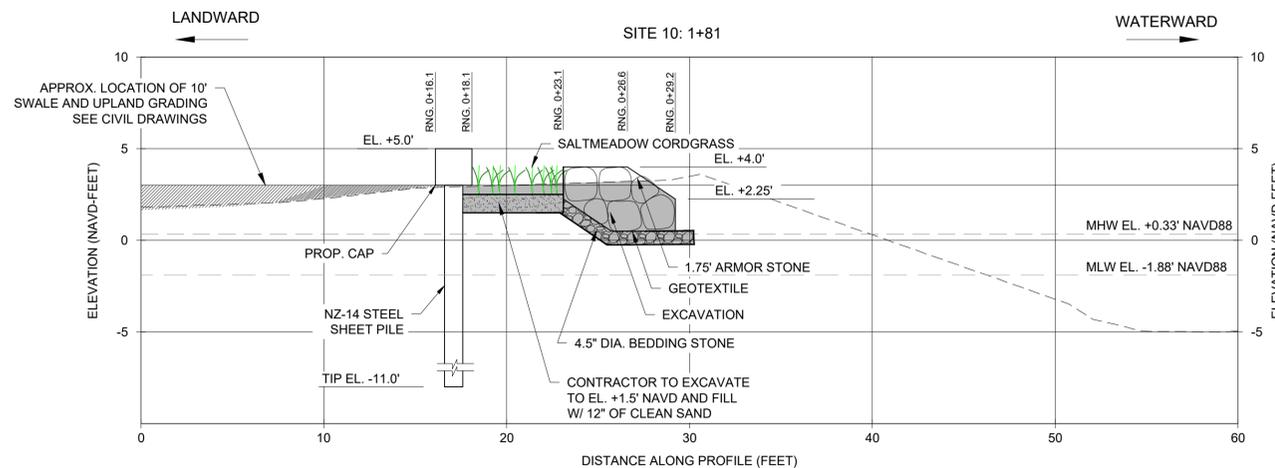
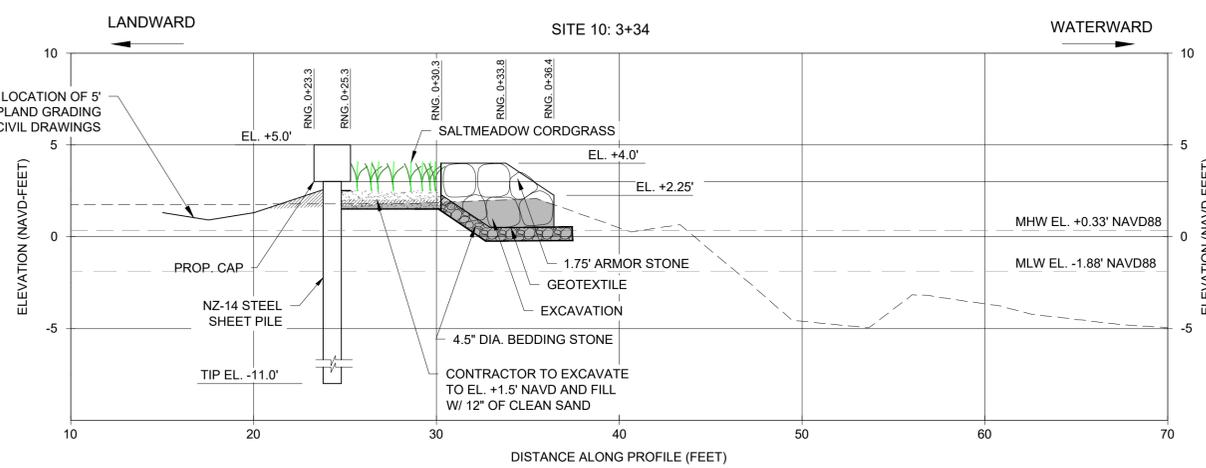
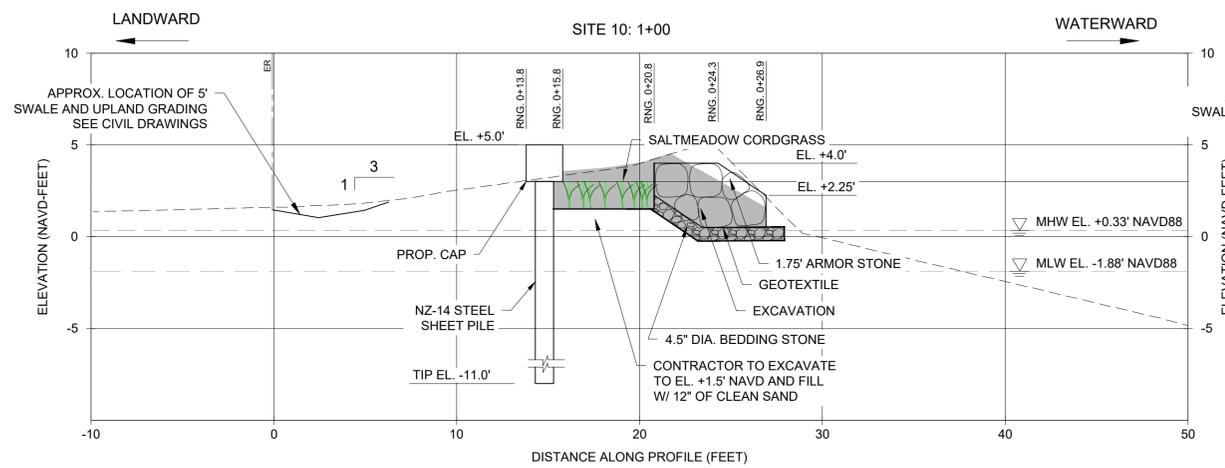
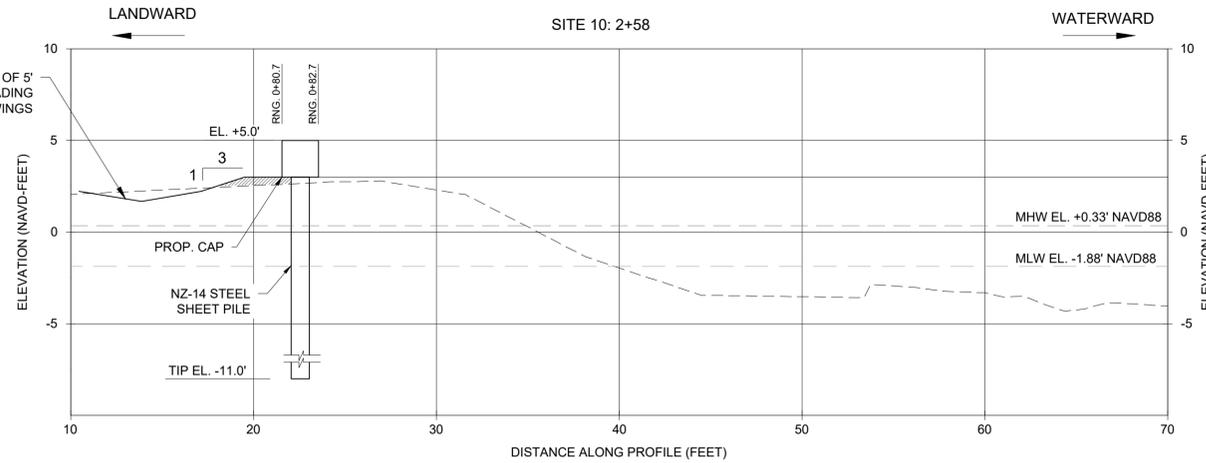
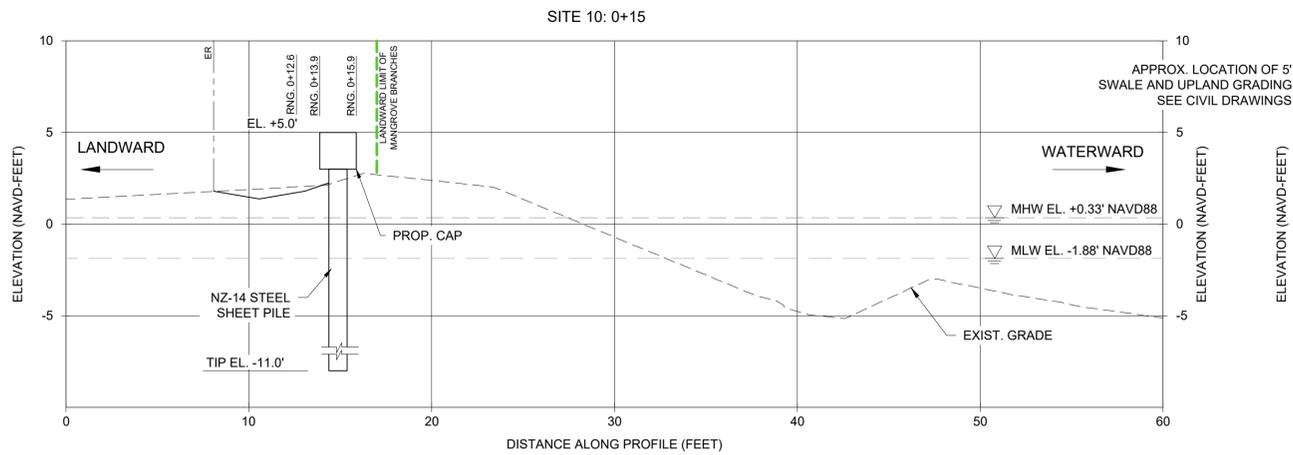
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	10/01/2024	

CC PROJECT NO:	84300
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CHECKED	JPC/SRC
SCALE	AS SHOWN

SHEET TITLE
**SITE 10
CROSS SECTIONS**

CM-2.6

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PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
SHORELINE PROTECTION
PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN
AND CONSTRUCTION
MANAGEMENT

2600 HOLLYWOOD BLVD.
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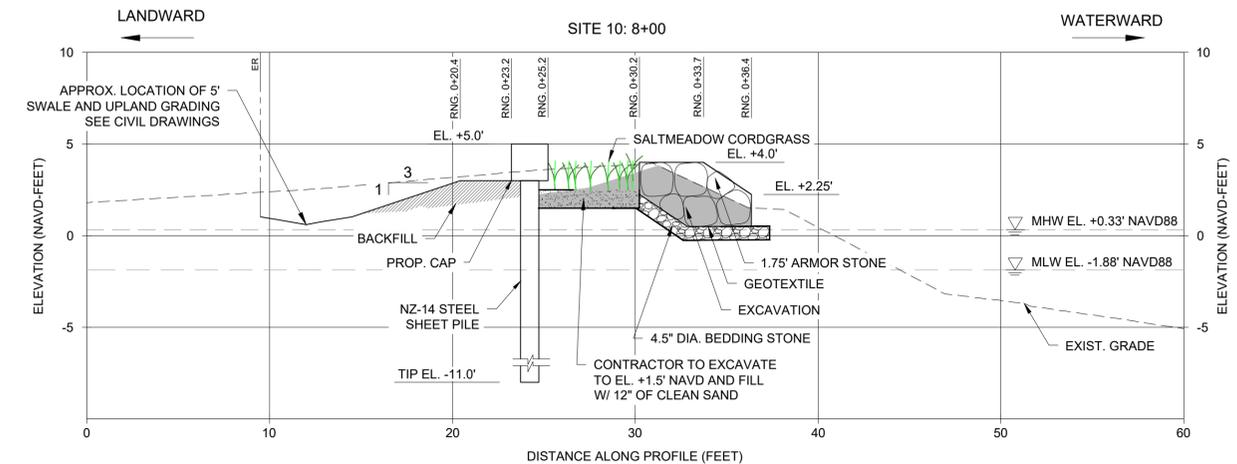
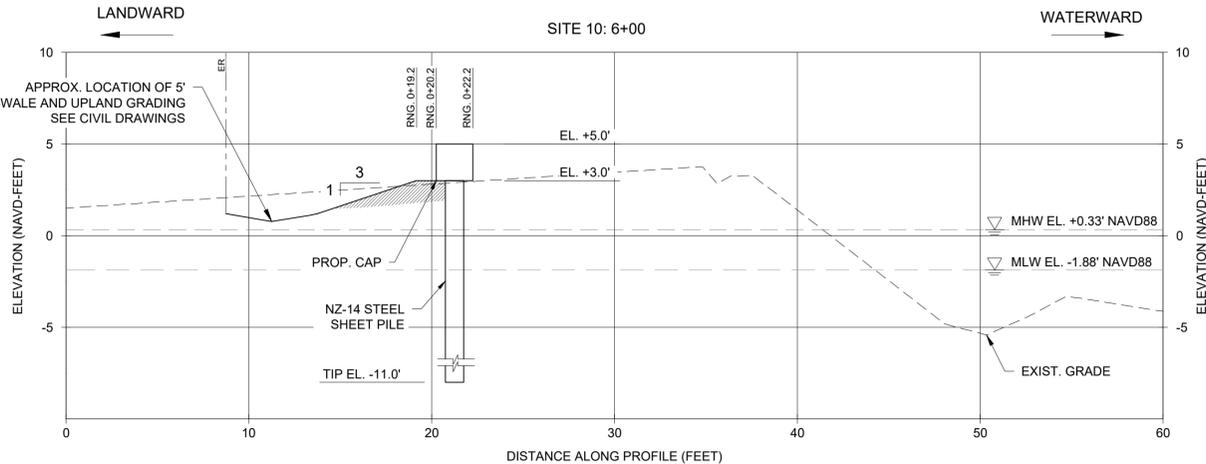
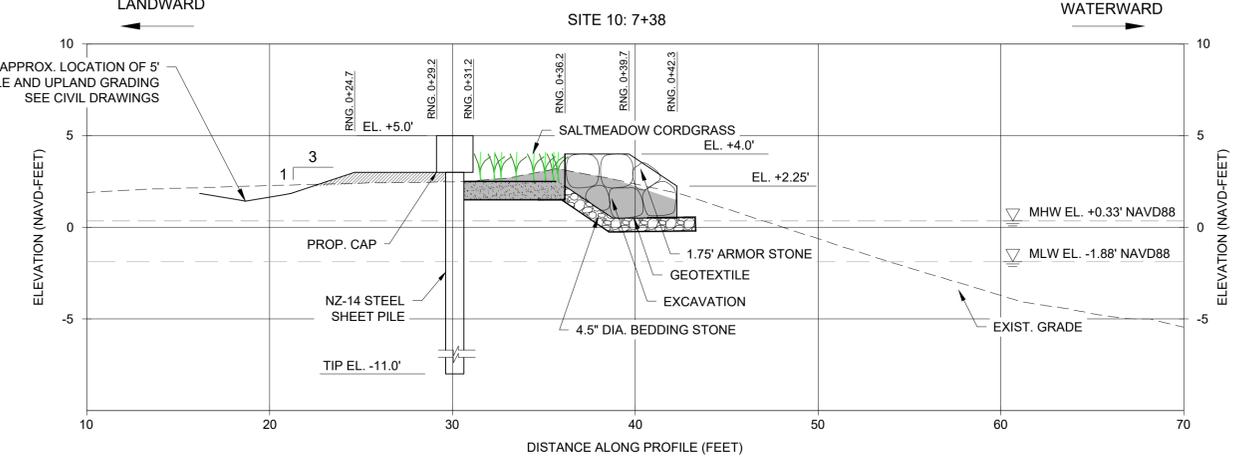
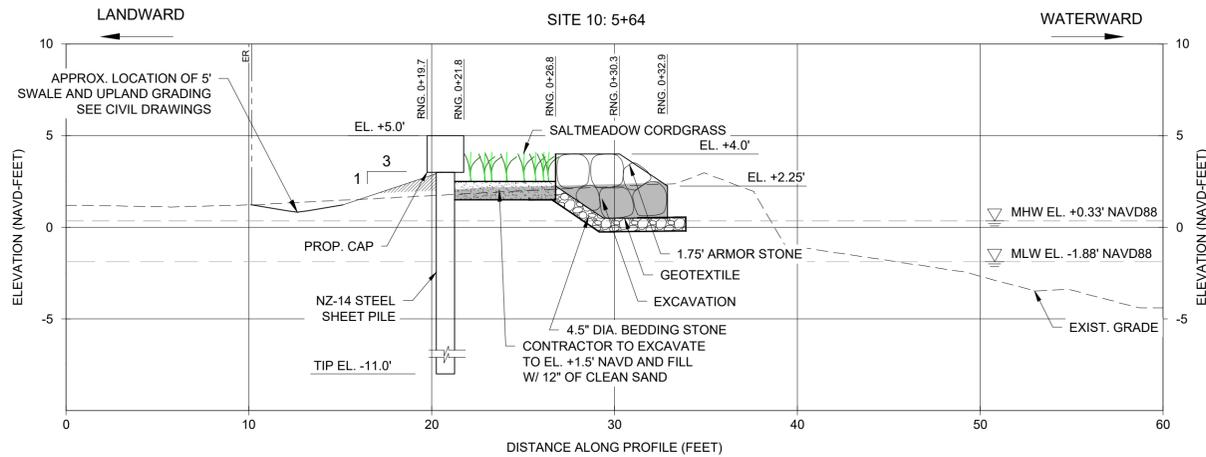
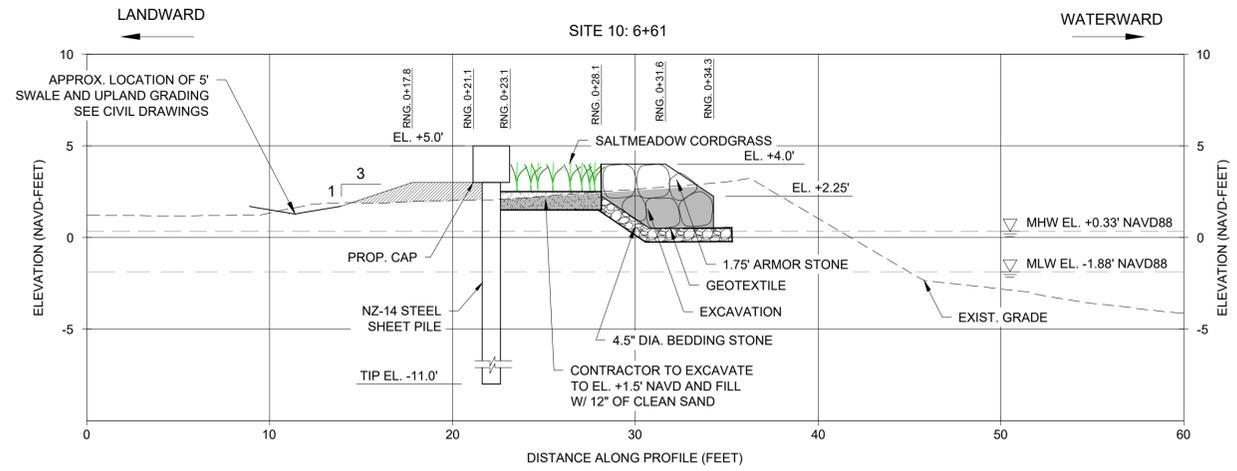
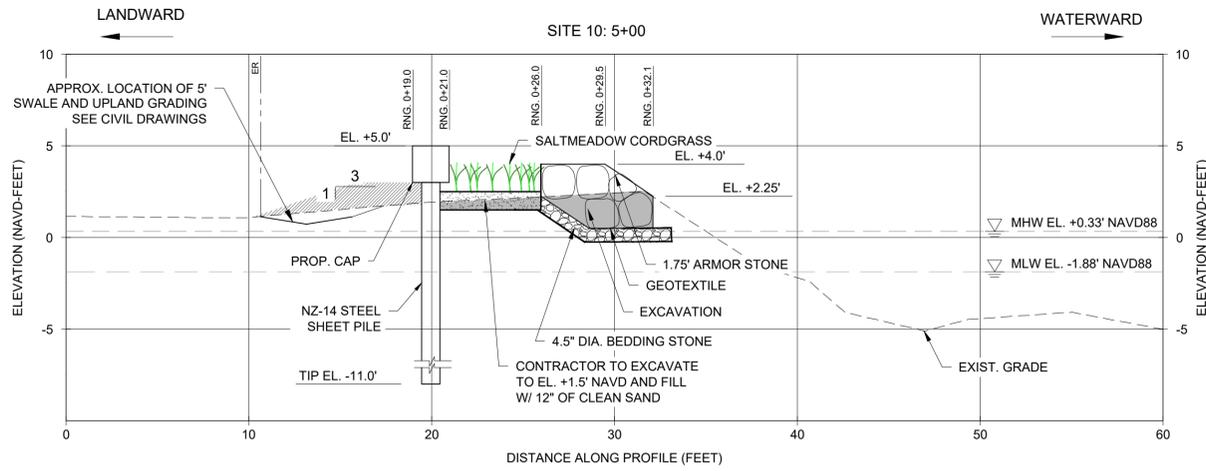
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	10/01/2024	

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SCALE	AS SHOWN

SHEET TITLE
**SITE 10
CROSS SECTIONS**

CM-2.7

PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
SHORELINE PROTECTION
PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN
AND CONSTRUCTION
MANAGEMENT

2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020



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NIV5

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KEITH & ASSOCIATES

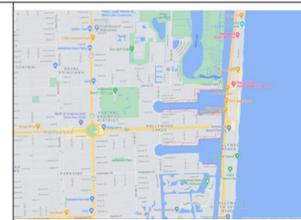
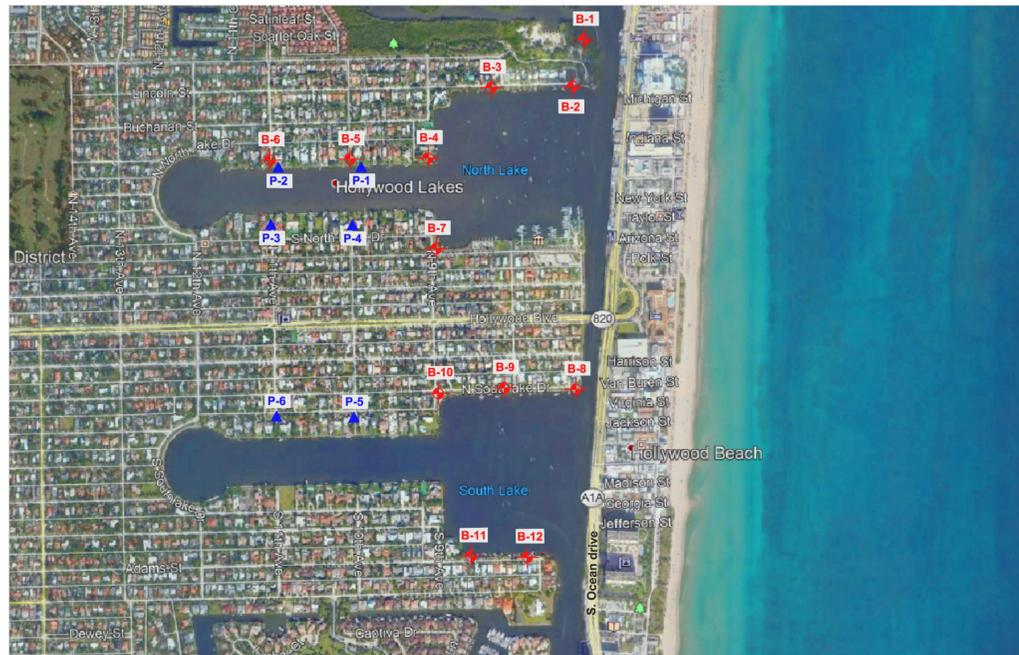
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BRIZAGA

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TEL: 954-634-3533



Site Vicinity Map



Approximate Scale in Feet

- LEGEND:**
- B-1 - Number & Approximate Location of Test Boring.
 - ▲ P-1 - Number & Approximate Location of Percolation Test.

- NOTES:**
1. Test locations shown are approximate.
 2. Test location symbols are not to scale.
 3. Base drawing was taken from Aerial View, Google Earth, 2021.

NIV5	DRAWING TITLE: Site Vicinity Map & Test Location Plan	DWN BY: NIV5	
	PROJECT NAME: City of Hollywood Tidal Flooding Mitigation - Phase 1_Priority 1	CKD BY: BLS	
	PROJECT LOCATION: City of Hollywood, Hollywood, Florida	APD BY: _____	
	PROJECT NO: 16959	DATE: 02/01/2021	DWG NO: 1

BORING NUMBER B-11					
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S. GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION (ft NAVD)
0				1" of Asphalt	2.0
0.1	SPT 30-19-11-11 (30)	11	GP	LIMESTONE FRAGMENTS, medium dense, light gray, with a trace of organics	1.0
1.0	SPT 1-1-1-1 (2)	2	PT	PEAT, very soft, dark brown	0
2.0	SPT 1-1-1-1 (2)	2	PT	PEAT, very soft, dark brown	0
3.0	SPT 1-2-1-38 (3)	38	PT	PEAT, soft, dark brown	-4.0
4.0	SPT 10-19-2-6 (21)	21	PT	LIMESTONE, very soft, light brown	-5
5.0	SPT 6-8-4-7 (13)	13	PT	LIMESTONE, soft, light brown	-10
6.0	SPT 12-14-13-15 (27)	27	PT	LIMESTONE, soft, light brown	-10
7.0	SPT 11-12-12-11 (24)	24	PT	LIMESTONE, soft, light brown	-15
8.0	SPT 6-6-8-7 (14)	14	LS	LIMESTONE, very soft, light brown	-15
9.0	SPT 3-4-4-5 (8)	8	LS	LIMESTONE, very soft, light brown	-20
10.0	SPT 8-10-10-7 (20)	20	LS	LIMESTONE, very soft, light brown	-25
11.0				Boring terminated at 30.0 feet.	-27.0

PAGE A-11

BORING NUMBER B-12					
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S. GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION (ft NAVD)
0				1" of Asphalt	2.0
0.1	SPT 28-16-11-10 (27)	10	GP	LIMESTONE FRAGMENTS, medium dense, light gray, with a trace of organics	2.0
1.0	SPT 4-2-1-1 (3)	3	ML	SILT, very stiff, dark gray	0.0
2.0	SPT 1-1-1-1 (2)	2	PT	PEAT, soft, dark brown	0.0
3.0	SPT 1-1-2-70 (3)	3	PT	PEAT, soft, dark brown	-3.7
4.0	SPT 7-22-4-4 (26)	26	PT	LIMESTONE, very soft, light brown	-5
5.0	SPT 4-5-9-9 (13)	13	PT	LIMESTONE, soft, light brown	-10
6.0	SPT 7-13-13-19 (28)	28	PT	LIMESTONE, soft, light brown	-10
7.0	SPT 10-13-14-10 (27)	27	PT	LIMESTONE, soft, light brown	-15
8.0	SPT 7-9-7-9 (15)	15	LS	LIMESTONE, very soft, light brown	-15
9.0	SPT 4-5-5-4 (19)	19	LS	LIMESTONE, very soft, light brown	-20
10.0	SPT 10-12-9-8 (21)	21	LS	LIMESTONE, soft, light brown	-25
11.0				Boring terminated at 30.0 feet.	-27.0

PAGE A-12

ISSUE	DATE	PERMIT DRAWINGS	SUBMISSION / REVISION
	10/01/2024		

CC PROJECT NO:	84300
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SCALE	AS SHOWN

SHEET TITLE
**SITE 17
GEOTECHNICAL
BORINGS**

CM-3.0

PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
SHORELINE PROTECTION
PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN
AND CONSTRUCTION
MANAGEMENT

2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020



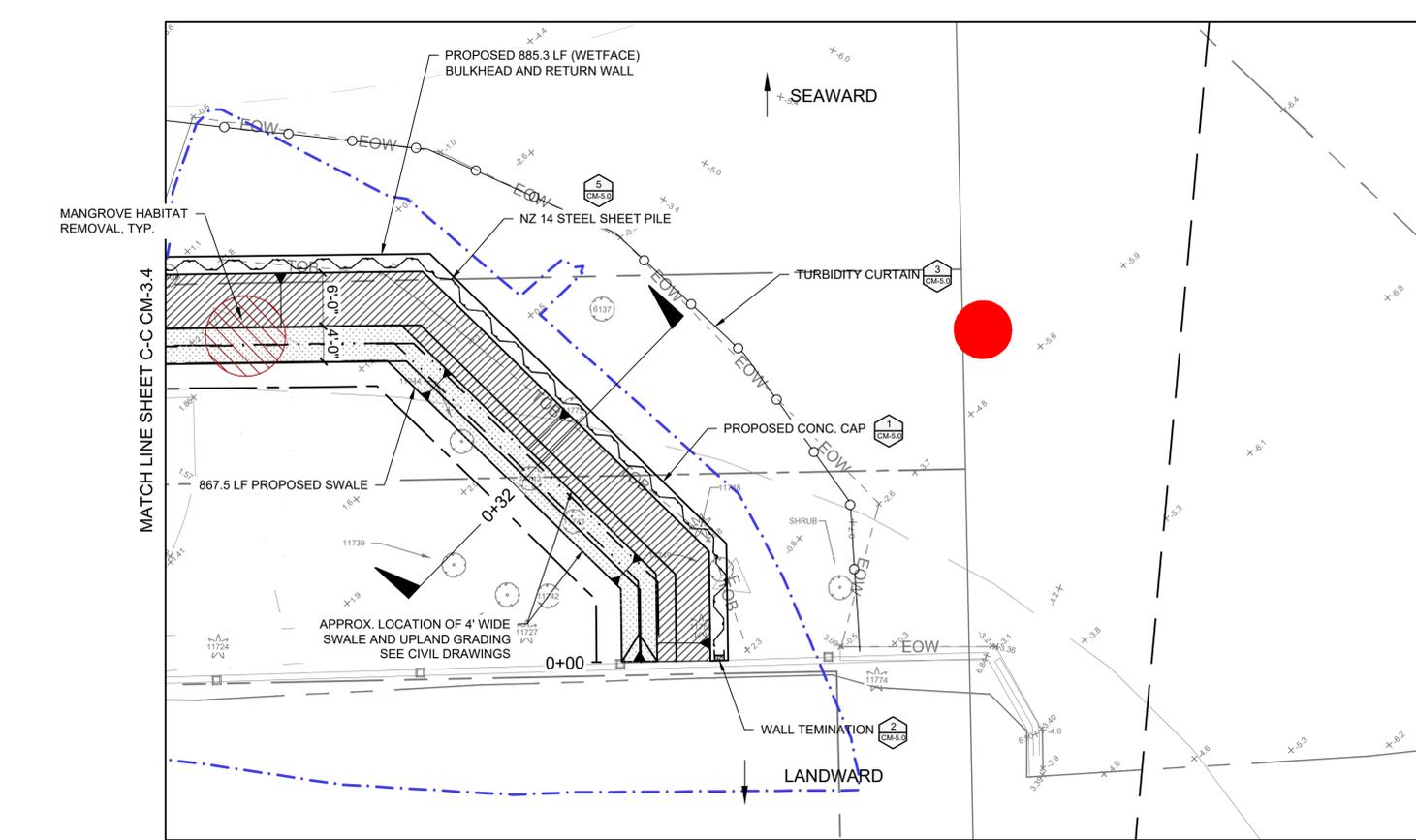
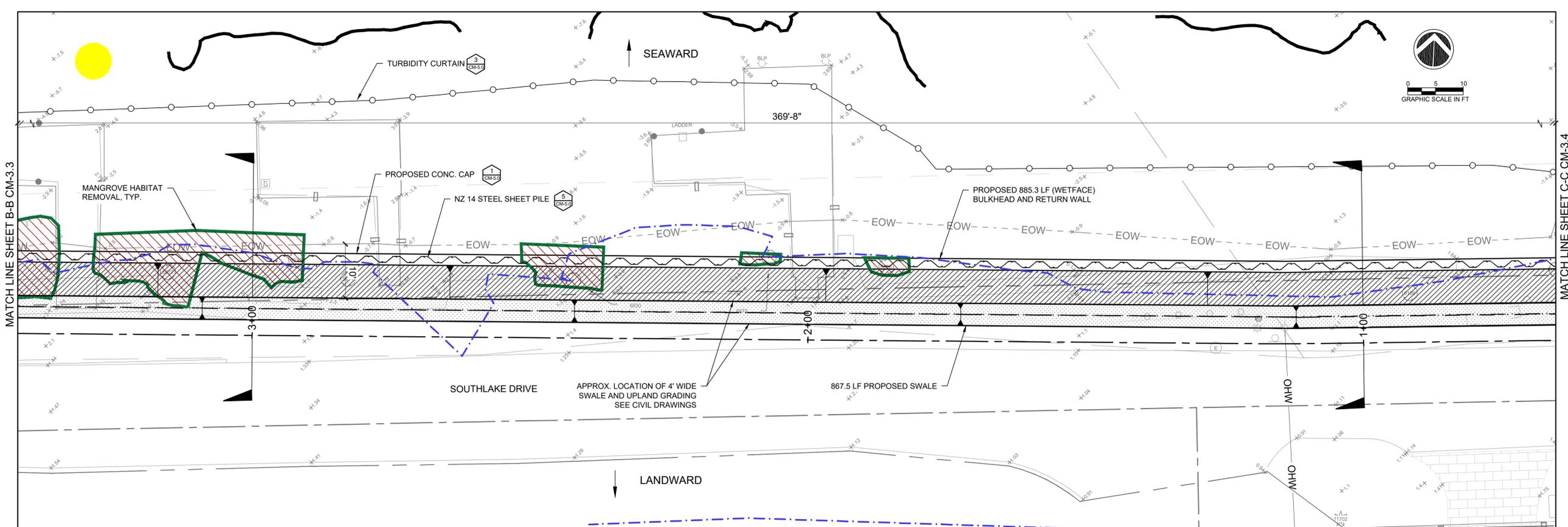
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FORT LAUDERDALE, FL 33309
TEL: 954-834-3533



SITE 17 TOTAL MANGROVE IMPACT = 3,716.5 SF
MANGROVE IMPACT BELOW MHW = 1,101.5 SF

ITEM	L.F.
TOTAL NZ 14 SHEET PILE	885.3
NZ 14 STEEL SHEET PILE BELOW MHW LINE (0.33' NAVD)	467.7

ITEM	S.F.	CY
TOTAL BACKFILL LANDWARD OF SHEET PILE WALL	5,271.7	389.3
BACKFILL LANDWARD OF SHEET PILE WALL BELOW MHW LINE (+0.33' NAVD)	811.6	113.4
SWALE EXCAVATION	3,498.0	153.6

LEGEND:

SEAGRASS SPECIES

- H. johnsonii
- H. decipiens
- H. decipiens/H. wrightii
- H. decipiens/H. wrightii/H. johnsonii
- H. decipiens/H. johnsonii/T. testudinum

SEAGRASS DENSITY

- LOW
- MODERATE-HIGH

PATCH

- LOW
- MODERATE-HIGH

EDGE

- LOW
- MODERATE-HIGH

BED

- LOW
- MODERATE-HIGH

MANGROVE HABITAT POINT

LANDWARD EDGE OF MANGROVE

MEAN HIGH WATER LINE (MHW) = +0.33' NAVD88

PROPOSED SALTMEDADOW CORDGRASS

APPROX. 5' WIDE SWALE

BACKFILL

TURBIDITY CURTAIN

NOTE:
TURBIDITY CURTAINS TO BE UTILIZED FOR ANY WORK WATERWARD OF MEAN HIGH WATER.

ISSUE	DATE	PERMIT DRAWINGS	SUBMISSION / REVISION
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SHEET TITLE
**SITE 17
PROPOSED WALL**

CM-3.4

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PROJECT:
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PROJECT

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DEPARTMENT OF DESIGN
AND CONSTRUCTION
MANAGEMENT

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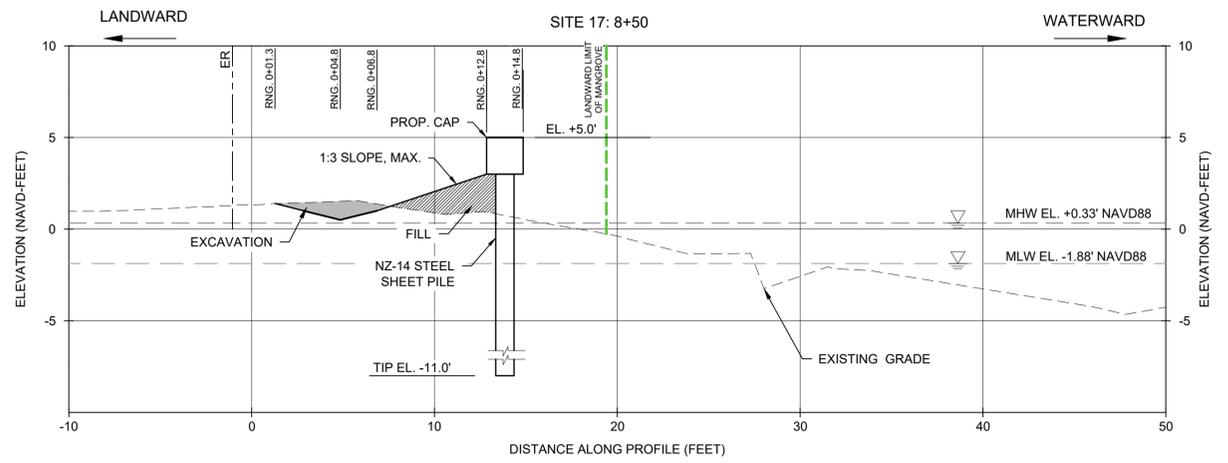
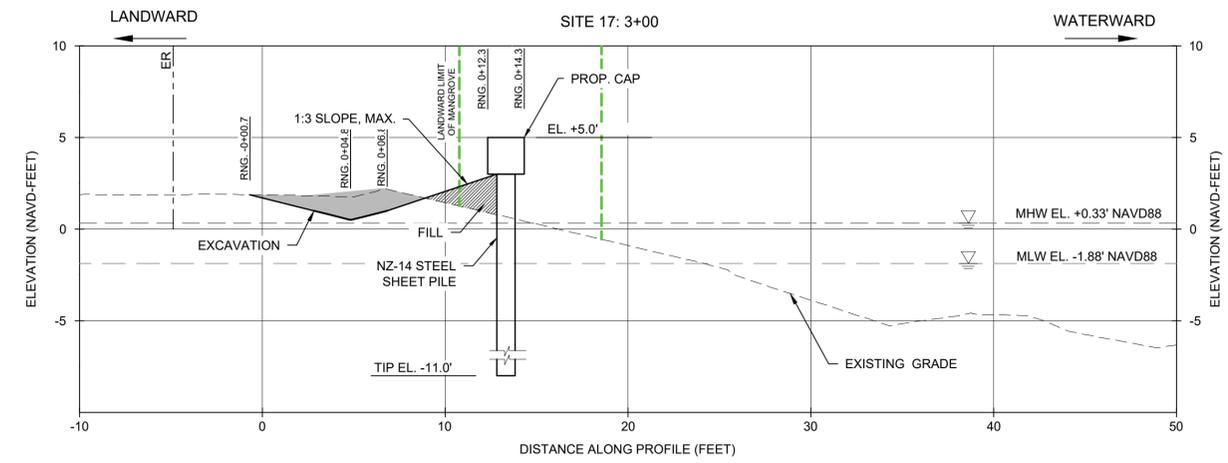
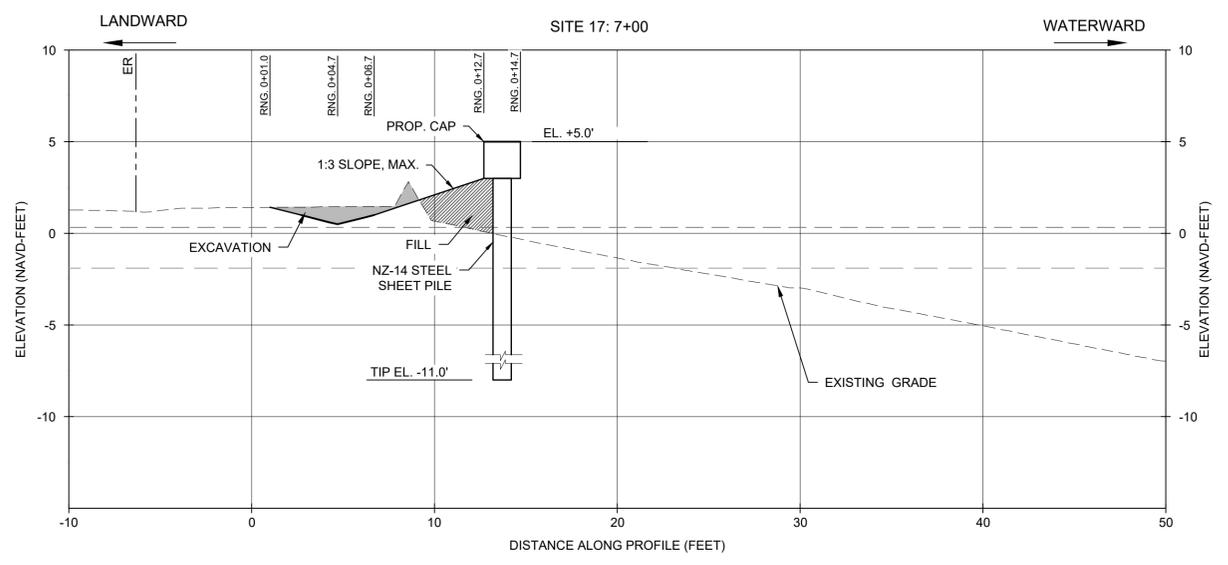
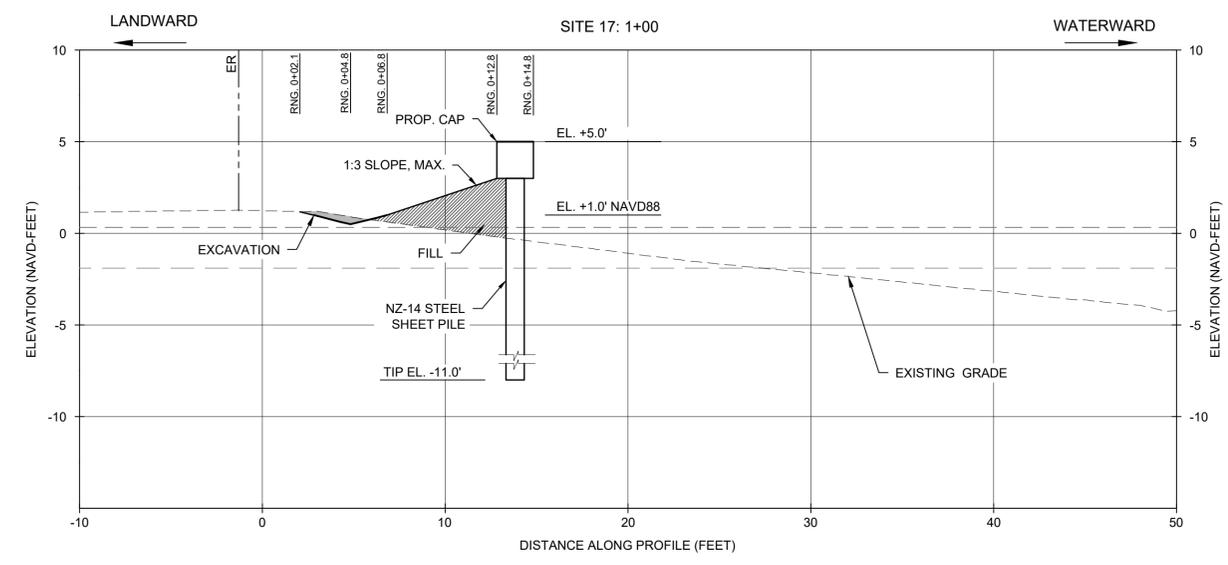
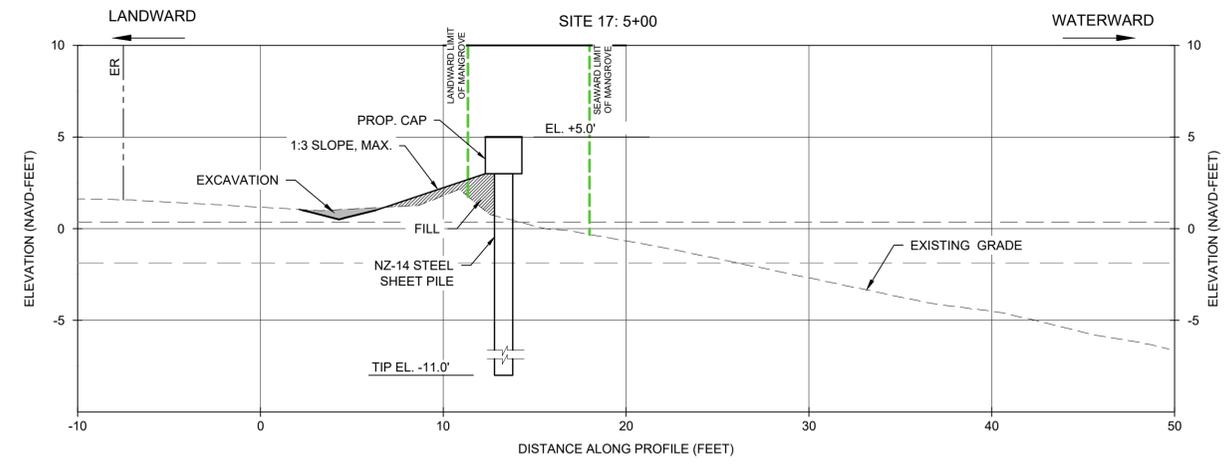
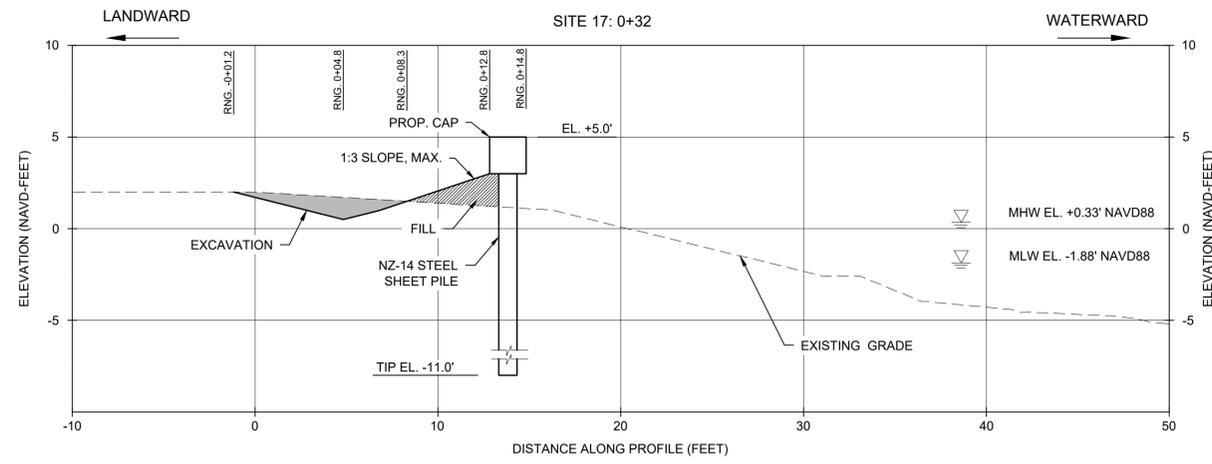
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SCALE	AS SHOWN

SHEET TITLE
**SITE 17
CROSS SECTIONS**

CM-3.5

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DEPARTMENT OF DESIGN
AND CONSTRUCTION
MANAGEMENT

2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020



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CIVIL ENGINEER
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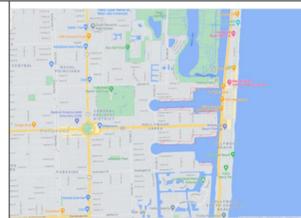
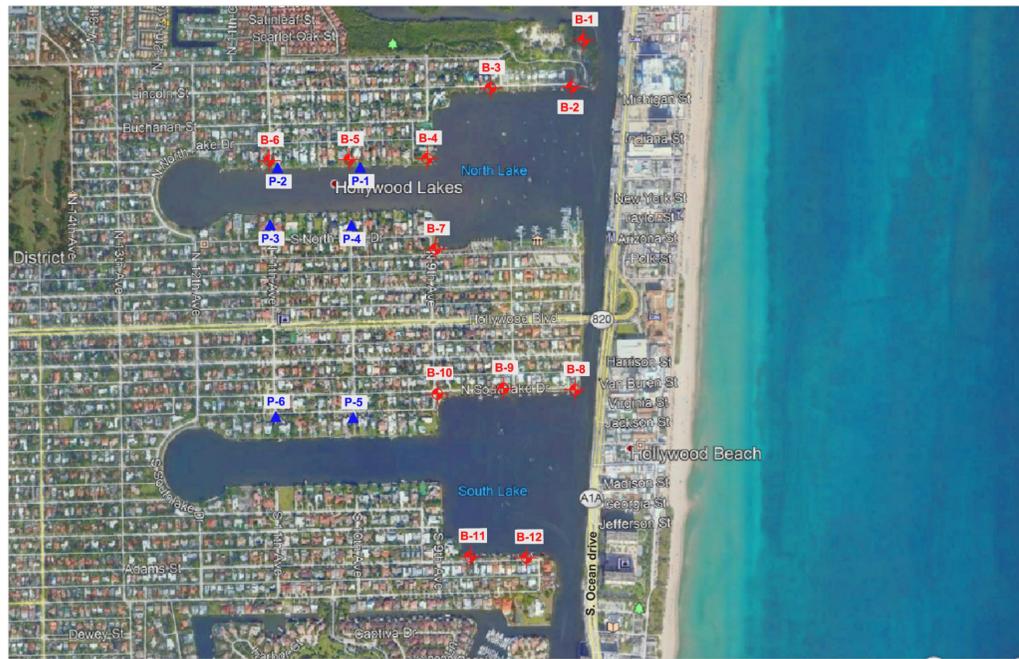
BRIZAGA
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2101 W. COMMERCIAL BLVD. STE. 4600
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BORING NUMBER B-2					
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S. GROUP LOG	MATERIAL DESCRIPTION	ELEVATION (ft. NAVD)
0				4" of Asphalt	2.7
17-11-10 (28)	SPT	28	GP	LIMESTONE FRAGMENTS, medium dense, light brown, with sand	1.0
6-2-1-1 (3)	SPT	3		SILT, soft, dark gray, with organics	0
WOH-WOH-WOH (WOH)	SPT		ML	SILT, very soft, dark gray, with organics	
WOH-WOH-WOH (WOH)	SPT			SILT, very soft, dark gray	-5
WOH-WOH-WOH (WOH)	SPT			SILT, soft, dark gray	-7.0
WOH-1-2 (3)	SPT	3		LIMESTONE, medium hard, light brown	-10
20-15-23 (39)	SPT	39		LIMESTONE, very soft, light brown	-15
14-8-35-4 (13)	SPT	13		LIMESTONE, very soft, light brown	-20
3-2-10-12 (15)	SPT	15		LIMESTONE, very soft, light brown	-25
11-11-7-10 (18)	SPT	18	LS	LIMESTONE, very soft, light brown	-27.0
8-12-14-11 (29)	SPT	29		LIMESTONE, soft, light brown	-28.0
10-4-5-7 (9)	SPT	9		LIMESTONE, very soft, light brown	-29.0
Boring terminated at 30.0 feet.					

PAGE A-2

BORING NUMBER B-3					
DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS (N VALUE)	U.S.C.S. GROUP LOG	MATERIAL DESCRIPTION	ELEVATION (ft. NAVD)
0				4" of Topsoil	4.7
2-4-4-6 (8)	SPT	8	SP	SAND, loose, fine, light brown, with sand	3.0
5-2-1-1 (3)	SPT	3		SILT, soft, dark gray, with organics	0
1-WOH-WOH-WOH (WOH)	SPT		ML	SILT, very soft, dark gray, with organics	
WOH-WOH-WOH (WOH)	SPT			SILT, very soft, dark gray	-5
2-7-12-10 (19)	SPT	19		SILT, very stiff, dark gray, with a trace of limestone fragments	-5.5
3-3-3-6 (6)	SPT	6		SANDY LIMESTONE, very soft, light brown	-10
4-7-10-11 (17)	SPT	17		LIMESTONE, very soft, light brown	-15
10-13-9-11 (22)	SPT	22		LIMESTONE, soft, light brown	-20
10-8-6-8 (14)	SPT	14	LS	LIMESTONE, very soft, light brown	-25
10-4-4-2 (8)	SPT	8		LIMESTONE, very soft, light brown	-28.0
3-9-5-3 (14)	SPT	14		LIMESTONE, very soft, light brown	-29.0
Boring terminated at 30.0 feet.					

PAGE A-3



Site Vicinity Map



Approximate Scale in Feet

LEGEND:

- B-1** - Number & Approximate Location of Test Boring.
- P-1** - Number & Approximate Location of Percolation Test.

NOTES:

- Test locations shown are approximate.
- Test location symbols are not to scale.
- Base drawing was taken from Aerial View, Google Earth, 2021.

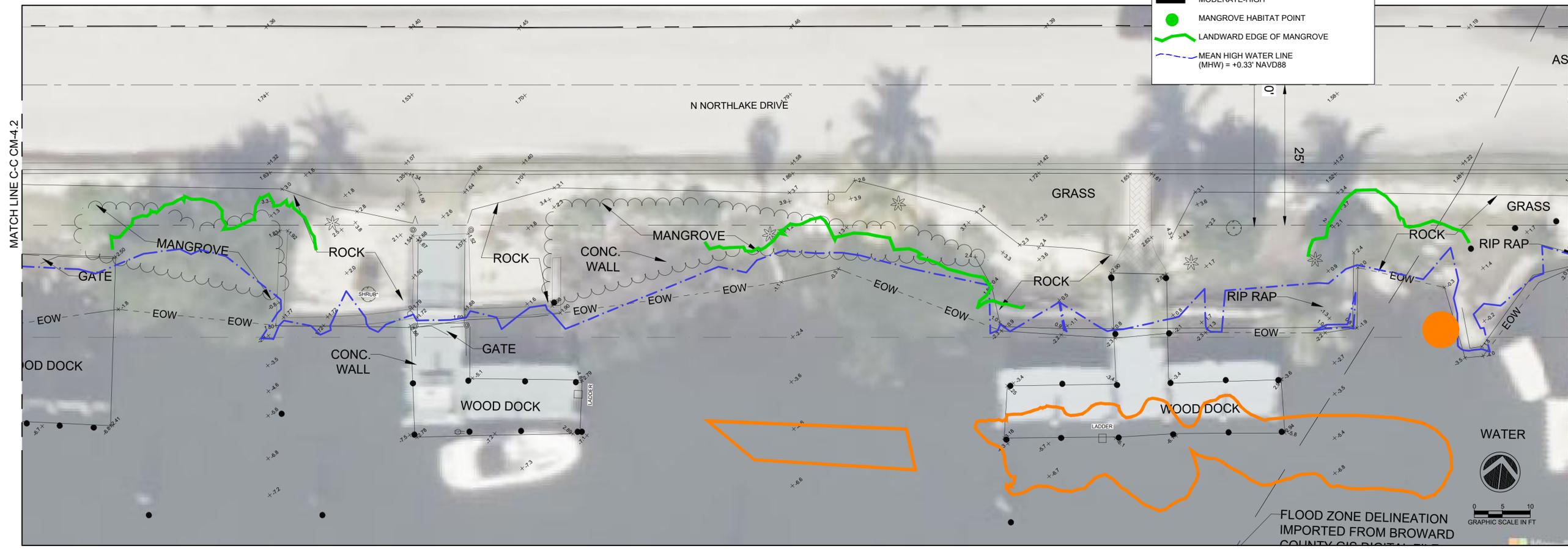
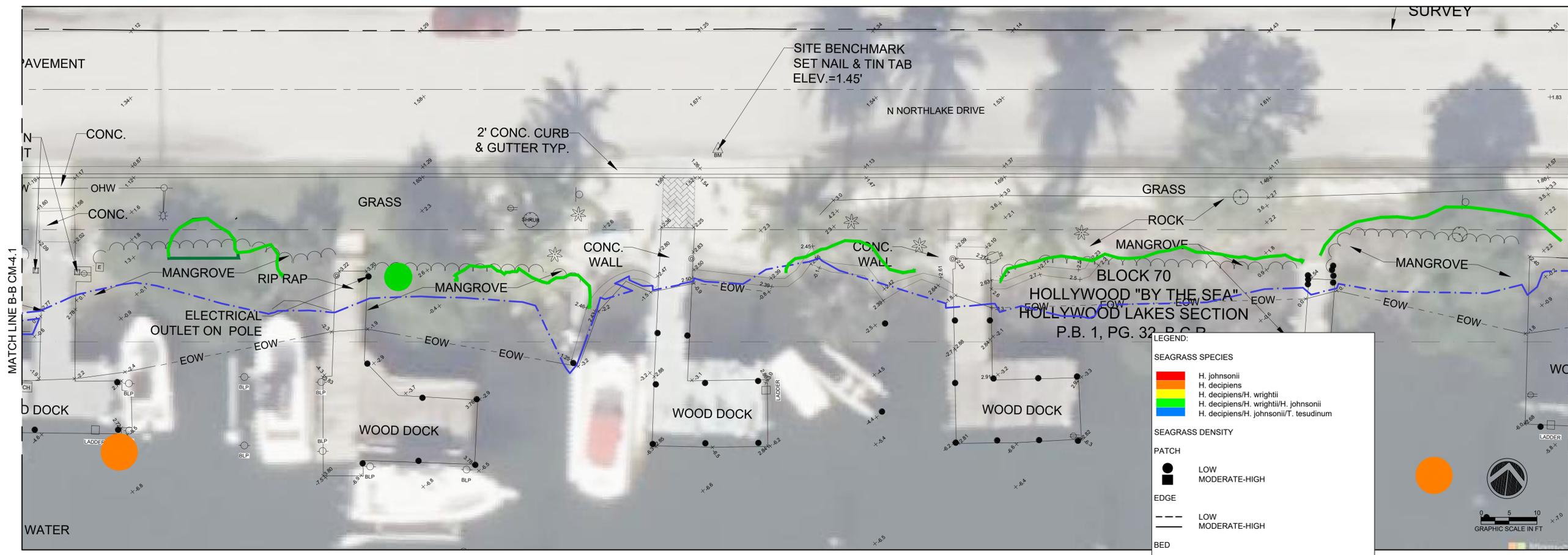
NIV5	DRAWING TITLE: <i>Site Vicinity Map & Test Location Plan</i>	DWN BY: <i>NVS</i>
	PROJECT NAME: <i>City of Hollywood Tidal Flooding Mitigation – Phase 1_Priority 1</i>	CKD BY: <i>ELS</i>
	PROJECT LOCATION: <i>City of Hollywood, Hollywood, Florida</i>	APD BY: <i>---</i>
PROJECT NO: <i>16959</i>	DATE: <i>02/01/2021</i>	DWG NO: <i>1</i>

PERMIT DRAWINGS	DATE
SUBMISSION / REVISION	ISSUE
	10/01/2024

CC PROJECT NO: 84300
DRAWN: GK
CHECKED: JPC/SRC
SCALE: AS SHOWN

GEOTECHNICAL
BORINGS SITE 19

CM-4.0



PROJECT:
CITY OF HOLLYWOOD TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL DEPARTMENT OF DESIGN AND CONSTRUCTION MANAGEMENT
2600 HOLLYWOOD BLVD. HOLLYWOOD FL. 33020

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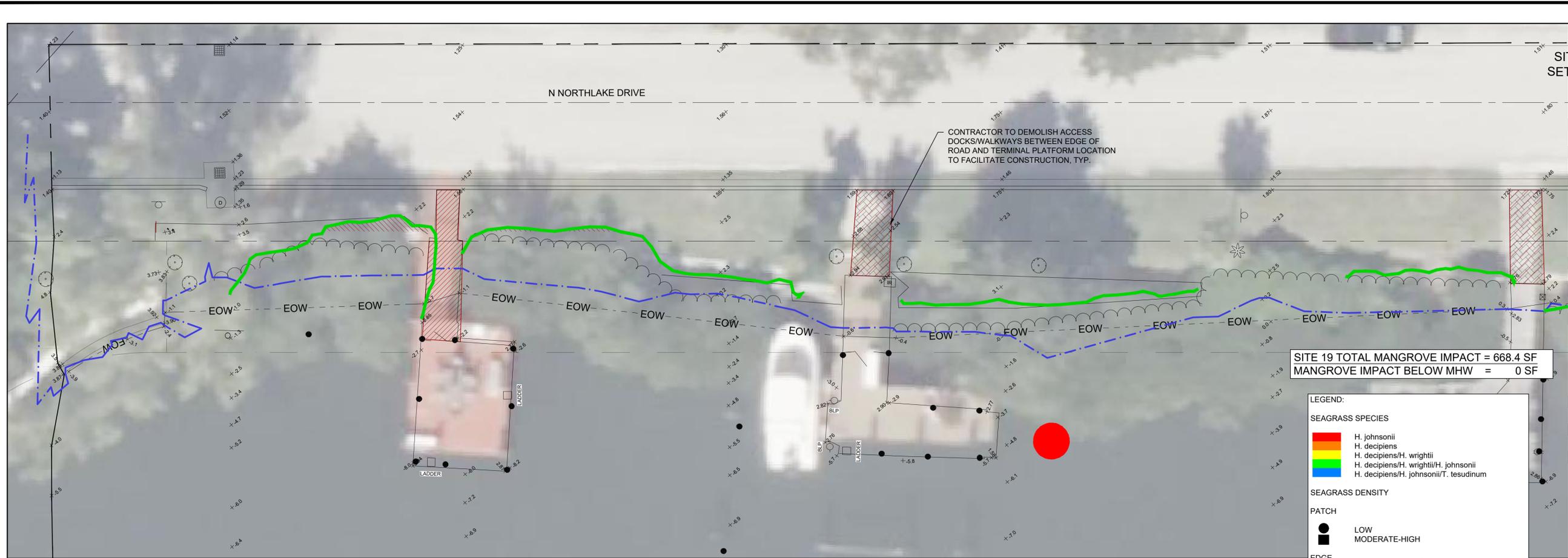
ISSUE	DATE	PERMIT DRAWINGS	SUBMISSION / REVISION
	10/01/2024		

CC PROJECT NO:	84300
DRAWN	GK
CHECKED	JPC/SRC
SCALE	AS SHOWN
SHEET TITLE	
SITE 19 EXISTING CONDITIONS	

CM-4.2

NOTE: SURVEY BY KEITH AND ASSOCIATES, INC. DATED 06/04/2021
SURVEY SHOWN FOR INFORMATIONAL PURPOSES ONLY.

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 Broward County and State ERP
 Page 28 of 55
 05/21/2025



PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
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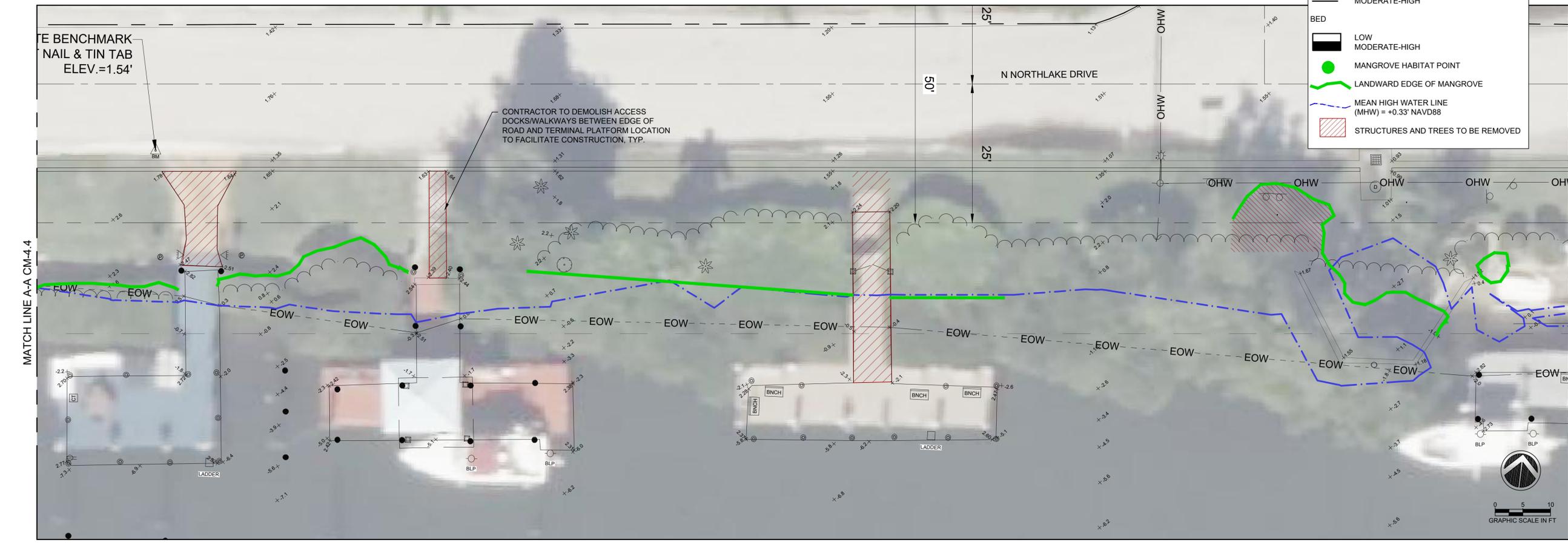
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SHEET TITLE

**SITE 19
DEMOLITION
PLAN**

CM-4.4

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 05/21/2025

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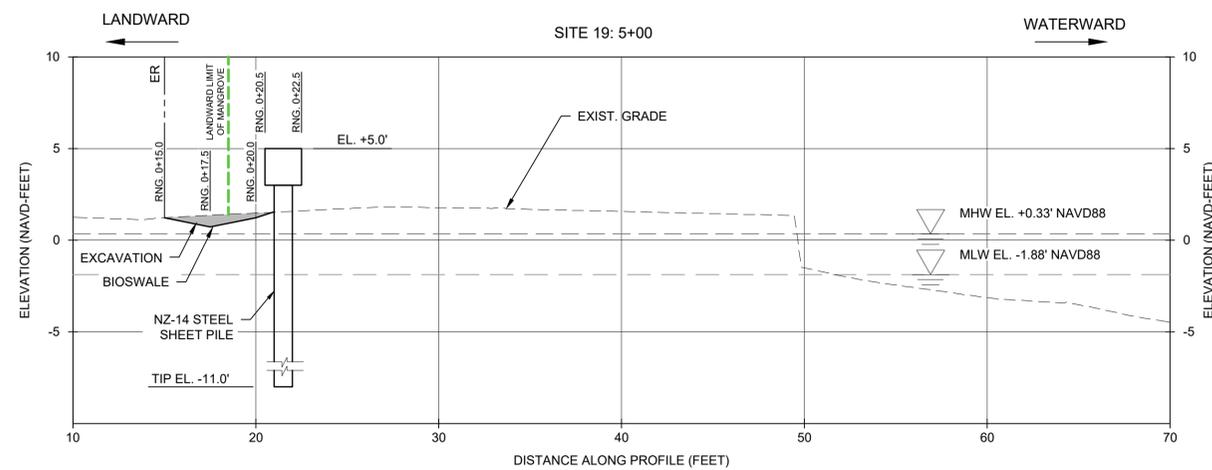
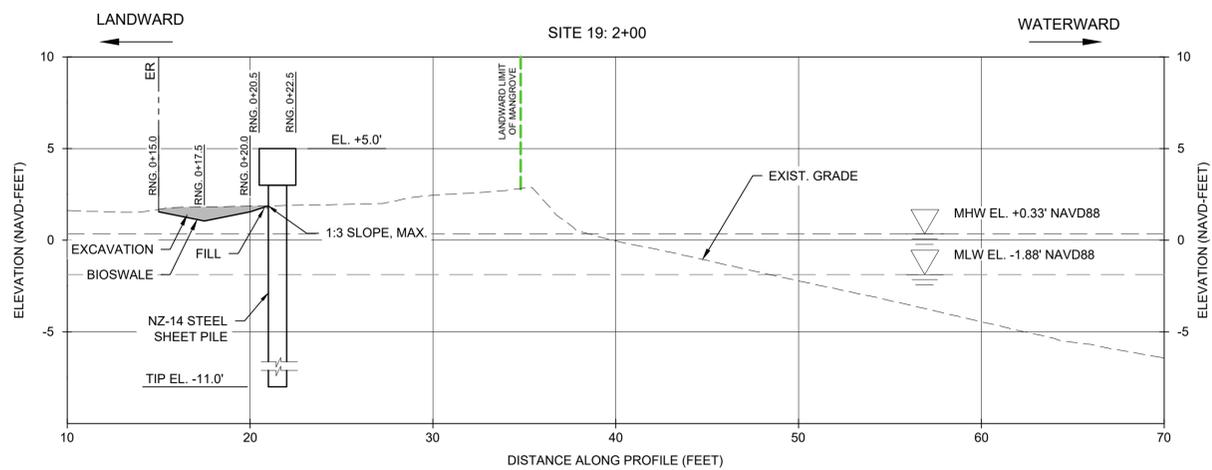
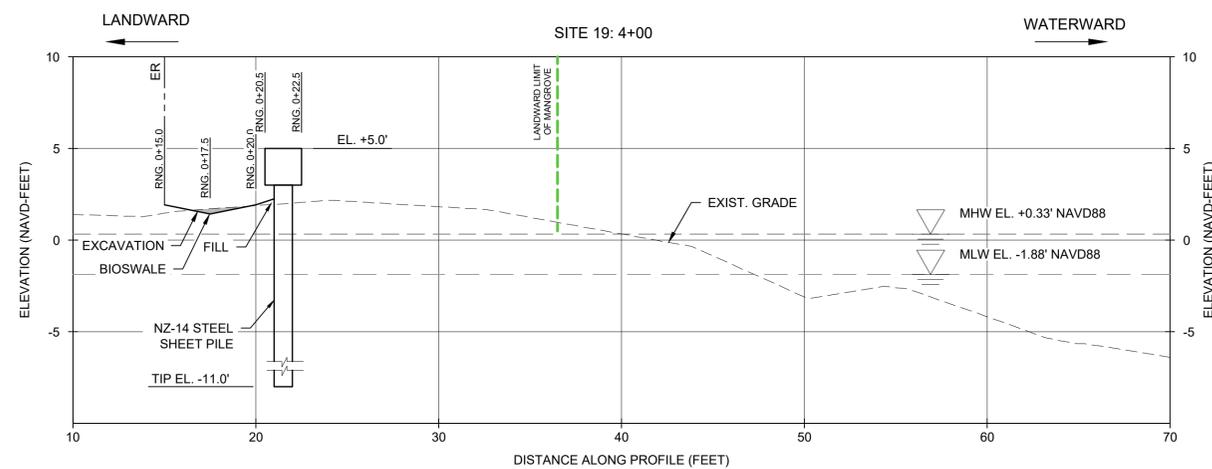
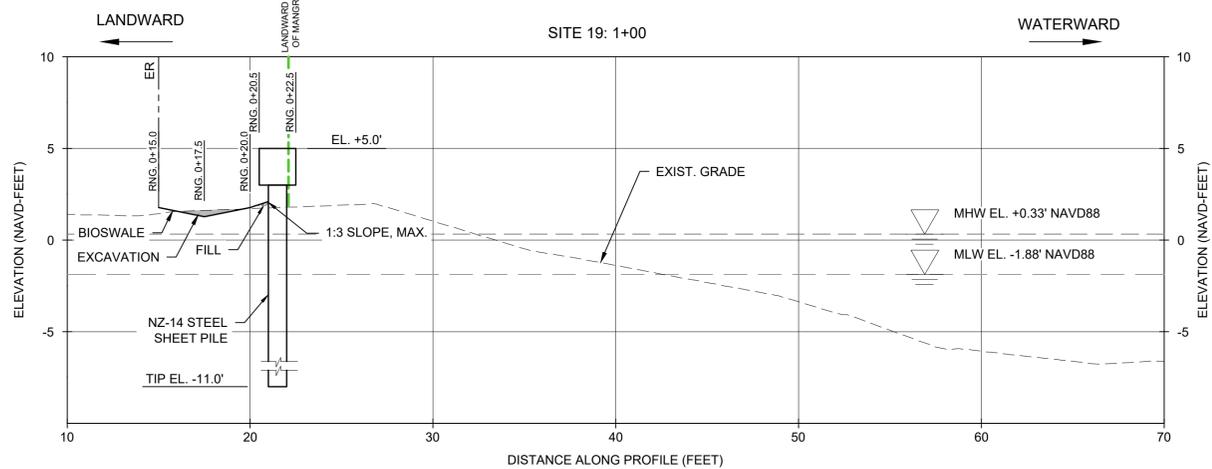
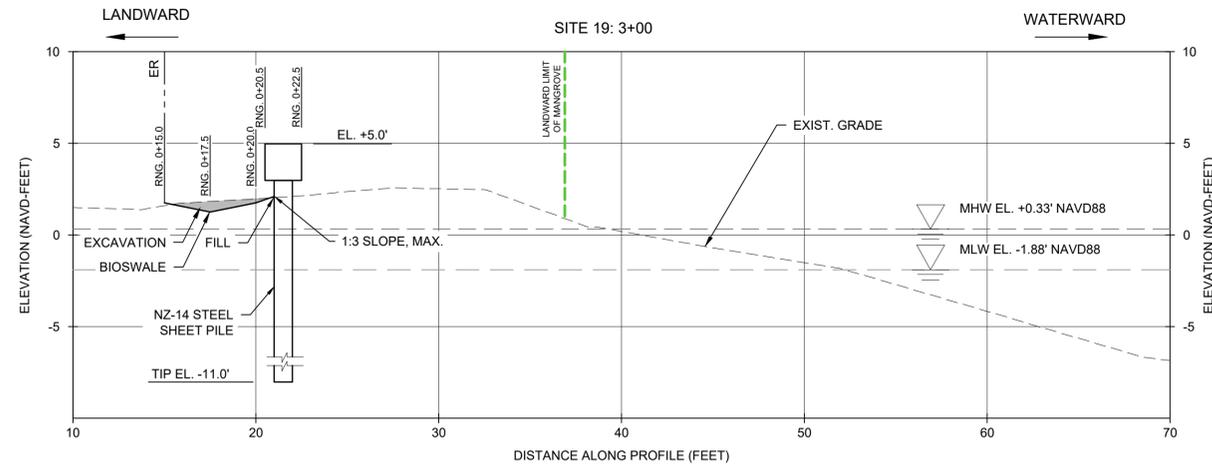
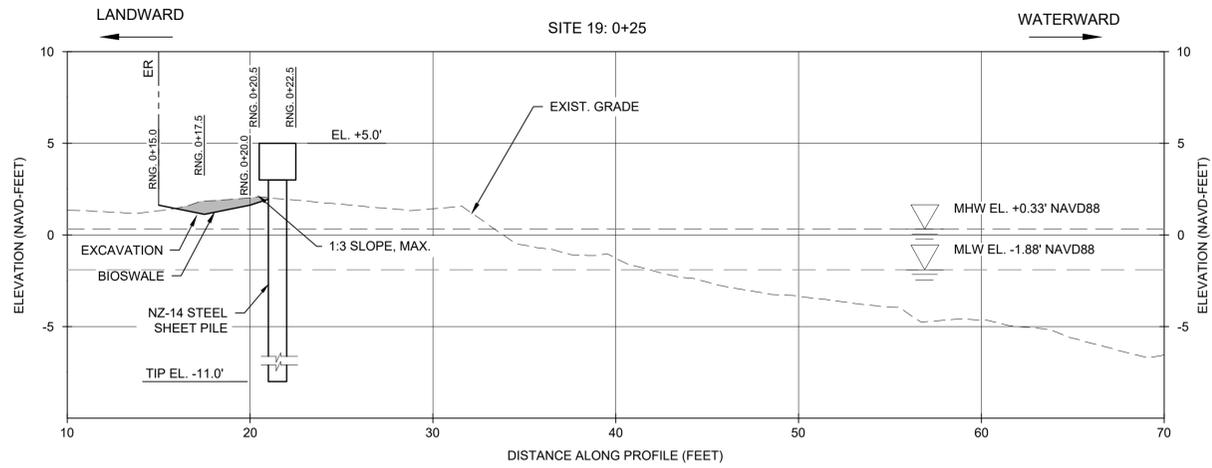
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**SITE 19
CROSS SECTIONS**

CM-4.10

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 05/21/2025

PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
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PROJECT

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CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN
AND CONSTRUCTION
MANAGEMENT
2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020



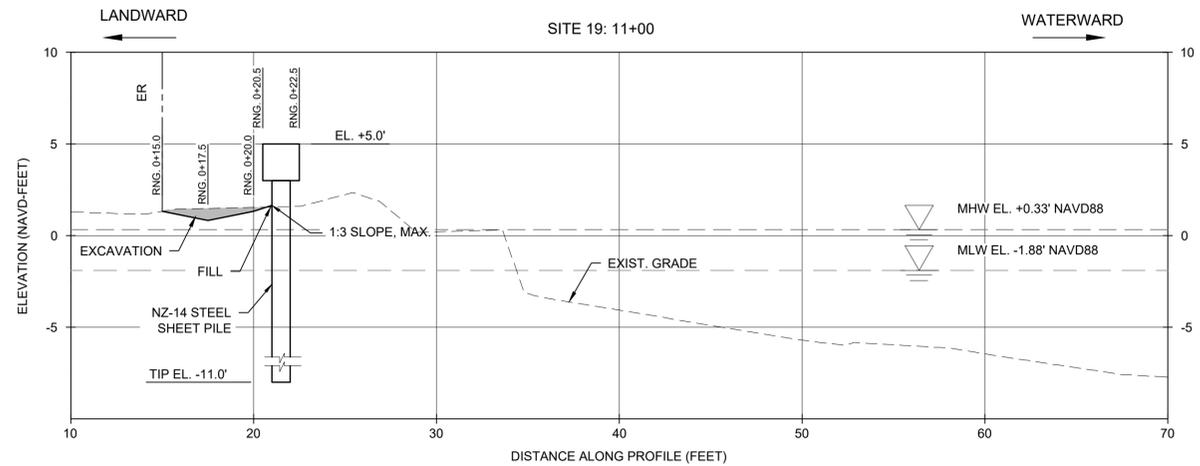
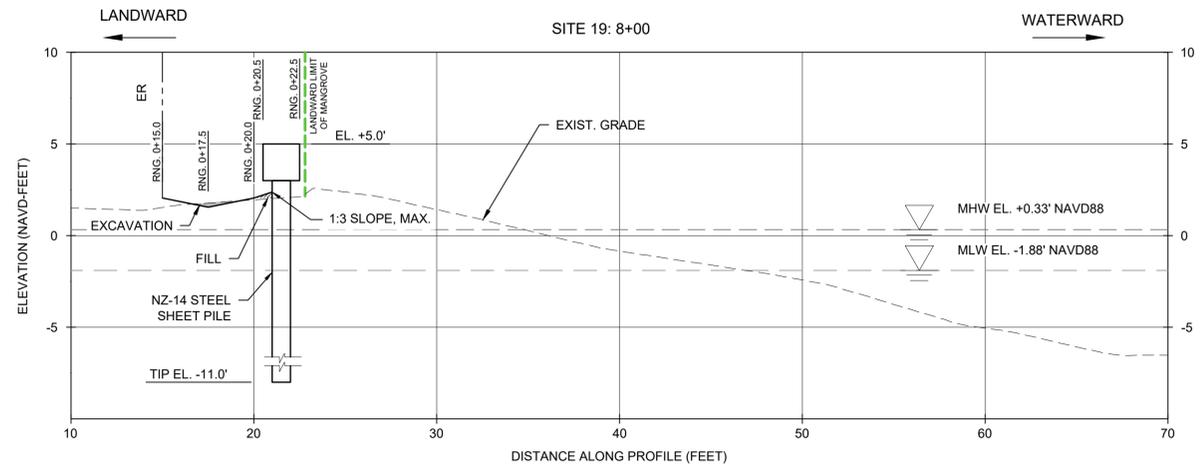
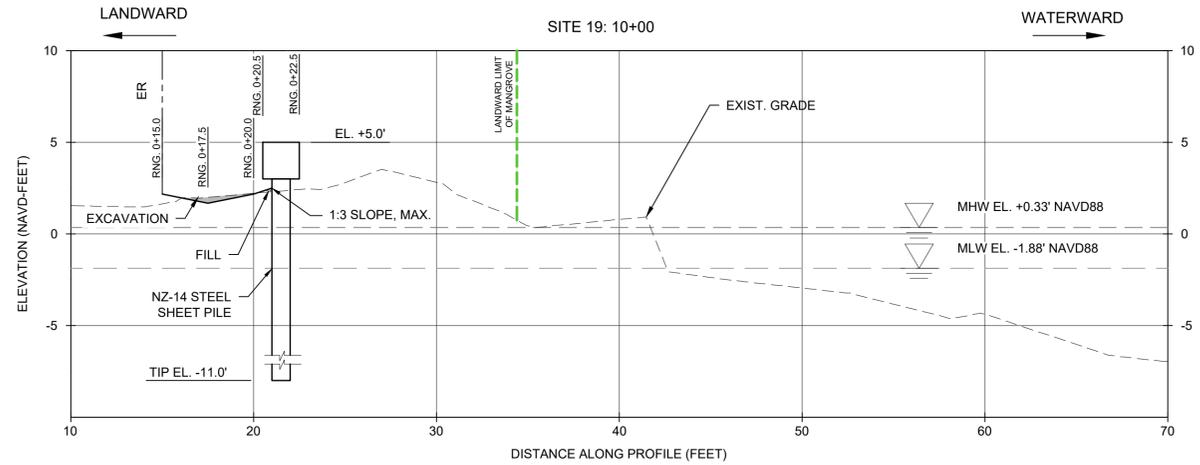
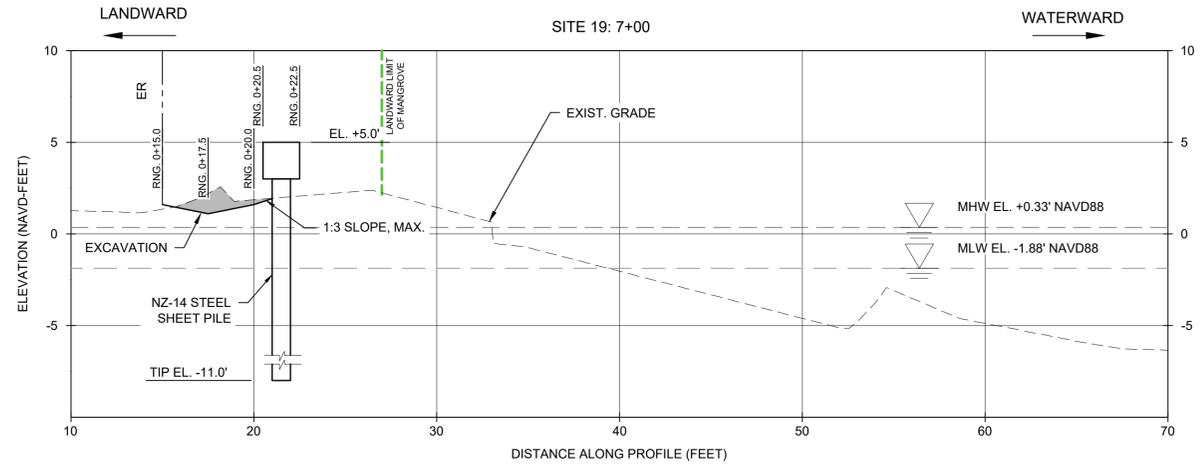
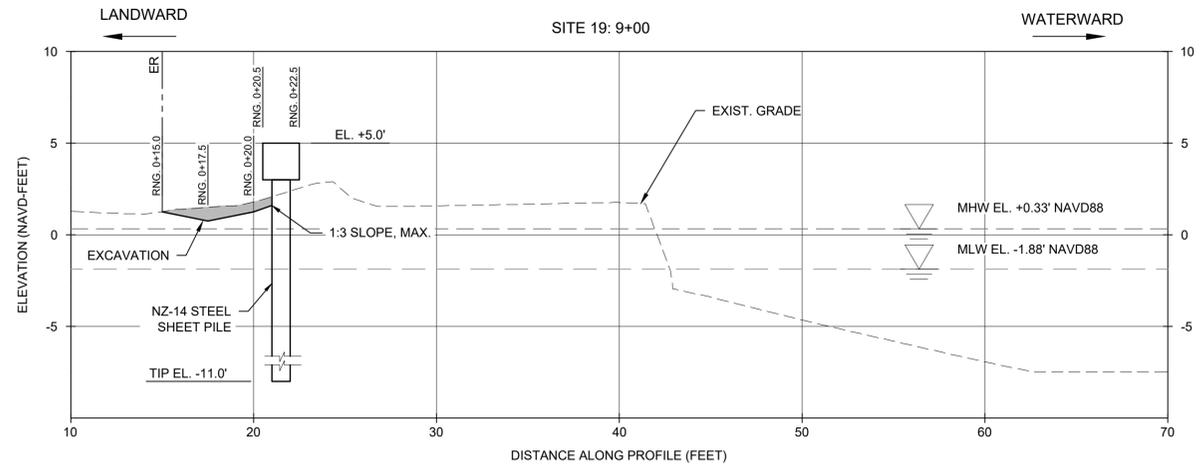
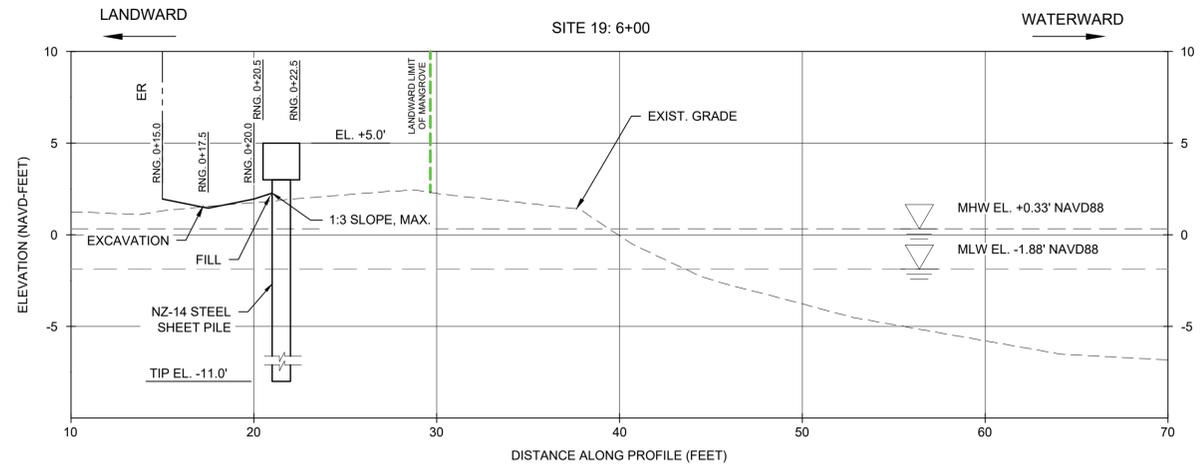
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**SITE 19
CROSS SECTIONS**

CM-4.11



PROJECT:
CITY OF HOLLYWOOD TIDAL
FLOODING MITIGATION AND
SHORELINE PROTECTION
PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN
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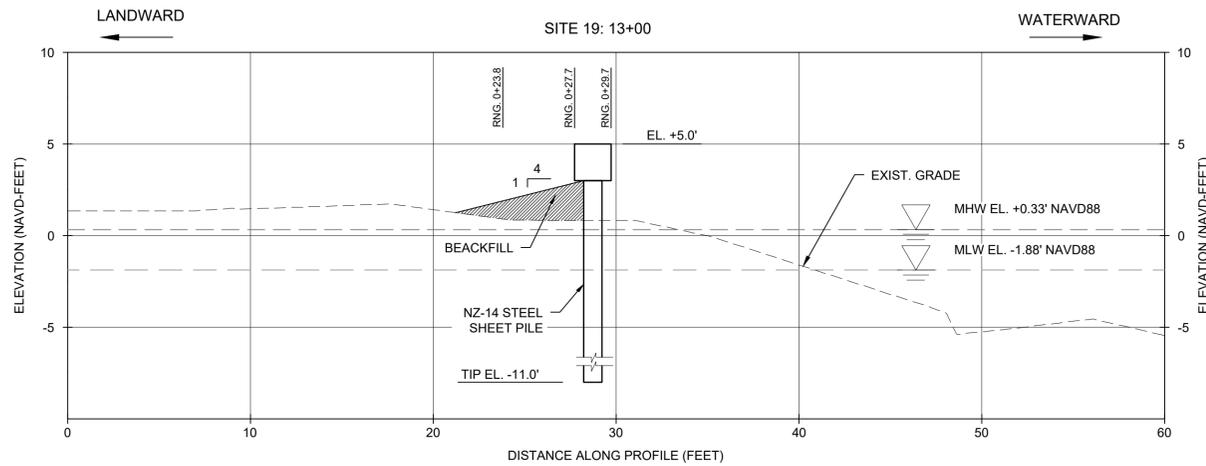
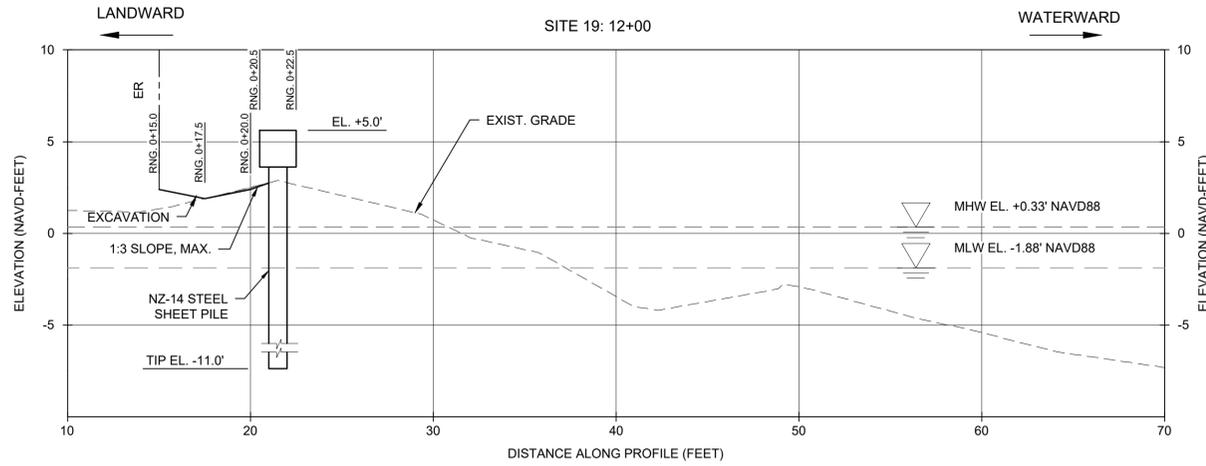
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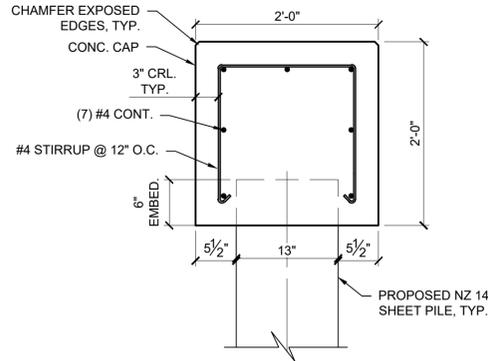


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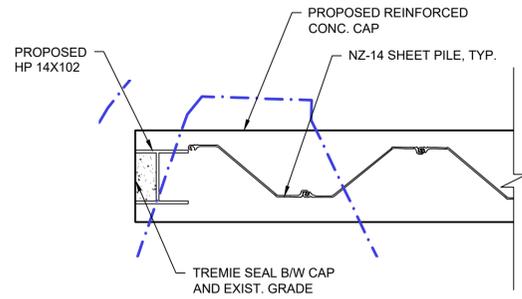
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**SITE 19
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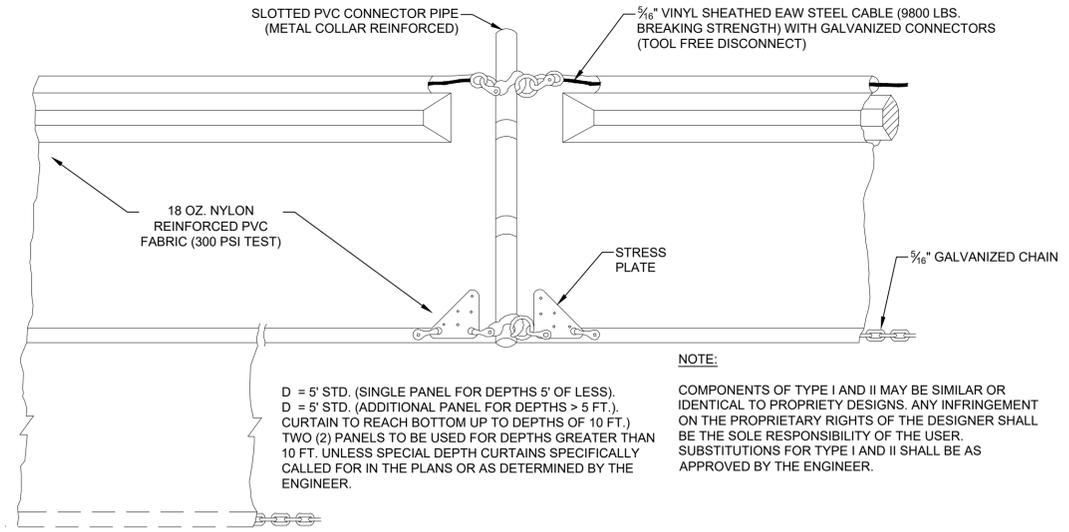
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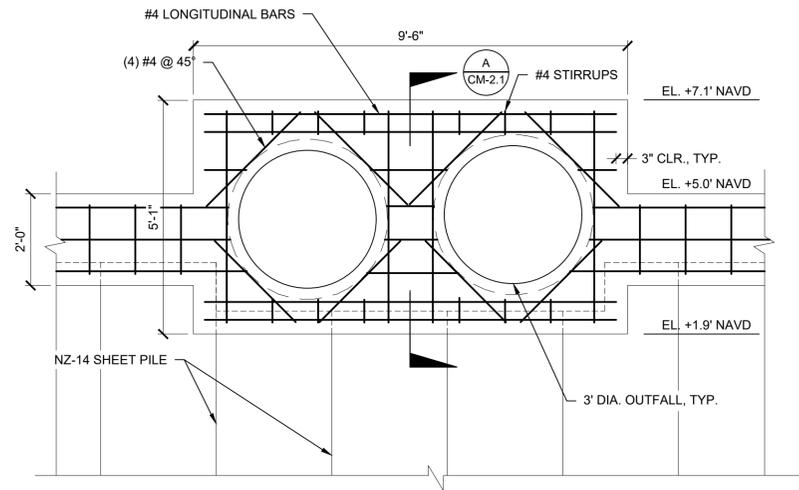
1 TYPICAL CONC. CAP REINF. DETAIL
SCALE: 1"=1" (22X34)



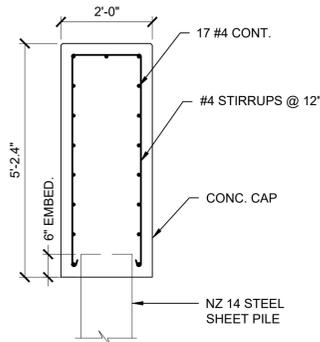
2 TYPICAL TERMINATION DETAIL
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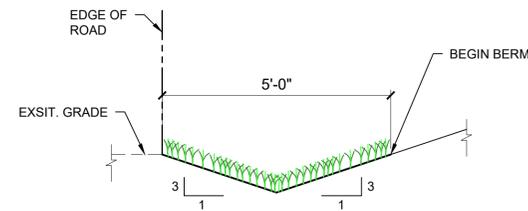
3 FLOATING TURBIDITY CURTAIN DETAIL
N.T.S.



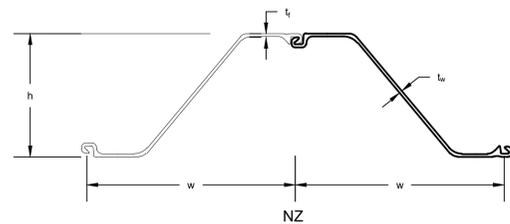
4 TYPICAL OUTFALL COLLAR DETAIL
SCALE: 1"=2" (22X34)



A TYPICAL OUTFALL COLLAR SECTION
SCALE: 1"=2" (22X34)



6 TYPICAL VEGETATED BIOSWALE DETAIL
N.T.S.



5 NZ-14 STEEL SHEET PILE
SCALE: N.T.S.

SECTION	Width (w) in mm	Height (h) in mm	THICKNESS		Cross Sectional area (w) in mm	WEIGHT		SECTION MODULUS		COATING AREA		
			Flange (t _f) in mm	Web (t _w) in mm		Pile lb/ft kg/m	Wall lb/ft ² kg/m ²	Elastic in ³ /ft cm ³ /m	Plastic in ³ /ft cm ³ /m	Moment of Inertia in ⁴ /ft cm ⁴ /m	Both Sides ft ² /ft of single m ² /m	Wall Surface ft ² /ft m ² /m
NZ 14	30.31 770	13.39 340	0.375 9.5	0.375 9.5	6.40 135.4	55 81.26	21.77 106.3	25.65 1379	30.50 1640	171.7 23447	6.10 1.86	1.20 1.20

PROJECT:
CITY OF HOLLYWOOD TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

PROJECT NO. DCM-001187

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BRIZAGA
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TEL: 954-834-3533

ISSUE	DATE	PERMIT DRAWINGS	SUBMISSION / REVISION
	10/01/2024		

CC PROJECT NO: 84300
DRAWN: GK
CHECKED: JPC/SRC
SCALE: AS SHOWN

DETAILS

CM-5.0

GENERAL NOTES

- 1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES WERE OBTAINED FROM AVAILABLE RECORDS...
2. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES TO PROTECT EXISTING UTILITIES...
3. THE CONTRACTOR SHALL NOTIFY THE CITY IN ADVANCE OF MAKING ANY CONNECTION...
4. ALL EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION...
5. CONTRACTOR SHALL NOTIFY ADJACENT PROPERTY OWNERS...
6. ALL ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS ARE BASED ON NAVD 1988 DATUM...
7. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION...
8. THE CONTRACTOR WILL HOLD A PRE-CONSTRUCTION MEETING...
9. ALL DEVIATIONS FROM PLANS ARE TO BE APPROVED IN WRITING...
10. THE CITY MUST BE GIVEN A MINIMUM 48 HOURS NOTICE...
11. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGHOUT THE DURATION...
12. EXISTING SECTION CORNERS AND OTHER LAND MARKERS OR MONUMENTS...
13. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES...
14. THE EXISTING ELEVATIONS SHOWN HEREIN ARE FOR THE PURPOSE OF INDICATING...
15. THE CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC...
16. EXISTING CONDITIONS PRESENTED ARE BASED ON A TOPOGRAPHIC SURVEY...
17. ALL WATER BOX, COMMUNICATION BOX, CABLE TV BOX, ETC...
18. THE WORDS 'NEW', 'PROPOSED', 'INSTALL', 'PROVIDE', OR WORDS WITH SIMILAR MEANING...
19. THESE CONSTRUCTION DOCUMENTS ARE COMPLEMENTARY WORK...
20. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES...
21. CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA...
22. EXISTING GRADES WERE TAKEN FROM THE BEST AVAILABLE DATA...
23. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES...
24. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS...
25. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES...
26. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES...
27. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED...
28. CAST IRON PRODUCTS: HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC...
29. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H-20 AASHTO H20...
30. ALL STRUCTURES MUST BE CAPABLE OF SUSTAINING HEAVY TRAFFIC LOADS...
31. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED...
32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION...
33. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON...
34. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT...
35. CONTRACTOR SHALL MAINTAIN TRAFFIC ACCORDING TO CORRESPONDING TYPICAL...
36. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES...
37. COMPLETE AS-BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH...
38. ALL WORK TO BE IN COMPLIANCE WITH CITY OF DANIA BEACH DESIGN STANDARDS...
39. DURING CONSTRUCTION IF SOIL OR GROUNDWATER CONTAMINATION IS ENCOUNTERED...
40. UPON DEVELOPMENT OF A SITE-SPECIFIC STORMWATER POLLUTION PREVENTION PLAN...
41. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED...
42. NO STAGING OF EQUIPMENT/VEHICLES OR MATERIALS WILL BE ALLOWED WITHIN...

OR OTHER ENVIRONMENTALLY SENSITIVE AREAS.

- 43. IF SUSPECTED CONTAMINATION OR HAZARDOUS MATERIAL IS FOUND ON THE PROJECT...
44. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT...
45. WORK SHALL BE PERFORMED ENTIRELY WITHIN THE EXISTING RIGHT-OF-WAY...
46. ALL EXISTING SIGNALIZATION EQUIPMENT IS ASSUMED TO BE IN GOOD WORKING ORDER...

DEMOLITION NOTES

- 1. DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES...
2. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE...
3. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE...
4. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE...
5. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS...
6. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING...
7. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS...
8. FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE...
9. DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTURES...
10. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTING UTILITIES...
11. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS...
12. ALL EXISTING UTILITY MH COVERS, ELECTRICAL BOXES, METER BOXES, METERS...
13. ALL EXISTING STREET LIGHTING WILL REMAIN IN PLACE AND REMAIN IN SERVICE...

EARTHWORK NOTES

- 1. THE CONTRACTOR'S BID FOR EARTHWORK SHALL INCLUDE THE EXCAVATION, REMOVAL...
2. ALL TOPSOIL THAT IS SUITABLE FOR LANDSCAPING OR SODDING OPERATIONS...
3. WHERE MUCK, ROCK, CLAY, OR OTHER MATERIAL WITHIN THE LIMITS OF CONSTRUCTION...
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE UNSUITABLE MATERIAL...
5. THE CONTRACTOR SHALL MAKE HIS OWN ESTIMATE ON THE VOLUME OF MATERIAL...
6. THE CONTRACTOR SHALL REMOVE ALL MUCK, YIELDING MATERIAL ROOTS...
7. TRENCH BACKFILL AND COMPACTION SHALL FOLLOW THE CONTRACT SPECIFICATIONS...
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE SAFETY...
9. THIS WORK SHALL INCLUDE THE EXCAVATION OF WHATEVER SUBSTANCES...
10. WATER SHALL NOT BE PERMITTED TO ACCUMULATE IN THE EXCAVATED AREA...
11. IF THE BOTTOM OF THE TRENCH IS ROCK, THE EXCAVATION SHALL BE CARRIED...
12. ROCK EXCAVATION SHALL INCLUDE ANY ROCK ENCOUNTERED WHICH CANNOT...
13. WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE OR SHORE...
14. THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING...
15. IF FIELD CONDITIONS, TYPE OF SHEETING OR CONSTRUCTION METHODS...
16. AFTER PILES, STRUCTURES, AND OTHER APPURTENANCES HAVE BEEN INSTALLED...
17. IN AREAS WHERE PAVEMENTS ARE TO BE CONSTRUCTED OVER THE PIPE...
18. IN AREAS WHERE NO PAVEMENT IS TO BE CONSTRUCTED, THE BACKFILL...
19. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SAFETY BARRIER...
20. SOIL BORING INFORMATION WILL BE PROVIDED TO THE CONTRACTOR...
21. SEE SOILS EVALUATION OF THE PROJECT AREA ON GEOTECHNICAL INVESTIGATION...

STORMWATER NOTES

- 1. LIFT HOLES THROUGH PRECAST STRUCTURES ARE NOT PERMITTED.
2. ALL CEMENT USED ON DRAINAGE STRUCTURES SHALL BE A TYPE II PORTLAND CEMENT...
3. UNLESS OTHERWISE SPECIFIED ON THE PLANS, STRUCTURES SHALL BE PRECAST...
4. MORTAR FOR USE IN CONSTRUCTION AND PLASTERING STRUCTURES SHALL CONFORM...
5. MORTAR MATERIALS SHALL BE PROPORTIONED BY VOLUME AND SHALL CONSIST...
6. PRECAST MANHOLE SECTIONS SHALL CONFORM TO ASTM C-478...
7. ALL PIPE SHALL BE CAREFULLY LAID, TRUE TO THE LINES AND GRADES...
8. THE BASE AND WALLS THAT COMPOSE THE BOTTOM SECTION OF THE PRECAST...
9. HOLES FOR PIPING SHALL BE MIN. 6 INCHES LARGER THAN THE OUTSIDE DIAMETER...
10. THE MINIMUM HEIGHT OF PRECAST BASE SECTION SHALL BE 36 INCHES...
11. THE CONTRACTOR SHALL FURNISH THE ENGINEER SHOP DRAWINGS...
12. ALL CASTING SHALL BE TRUE TO PATTERN AND DIMENSIONS...
13. BEARING SURFACES BETWEEN CAST FRAMES, COVERS AND GRATES SHALL BE...
14. CONTRACTOR IS TO PREVENT INTRODUCTION OF DEBRIS OR DIRT INTO...
15. LOCATION OF DRAINAGE STRUCTURES GOVERN. ADJUST PIPE LENGTHS...
16. WALL REINFORCEMENT AND THICKNESS FOR PRECAST STRUCTURES...
17. MORTAR USED TO SEAL THE PIPE INTO THE WALLS OF THE PRECAST...
18. ALL STRUCTURES SHALL BE SET PLUMB TO LINE AND GRADE...
19. ALL MUCK OR OTHER UNSTABLE MATERIAL ENCOUNTERED IN TRENCH...
20. PIPE BEDDING SHALL BE SAND, GRAVELLY SAND, OR 1-INCH MINUS CRUSHED...
21. CONTRACTOR TO WRAP ALL PIPE JOINTS AND PIPE CONNECTIONS...
22. SHOP DRAWINGS FOR ALL STRUCTURES AND MATERIALS TO BE USED...
23. PROTECT COMPLETED DRAINAGE STRUCTURES FROM CONTAMINATION...
24. CONTRACTOR SHALL INSPECT AND CLEAN ALL EXISTING STRUCTURES...
25. ADJUST ALL EXISTING STRUCTURES TO NEW GRADE ELEVATIONS.
26. ALL DRAINAGE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE...
27. CATCH BASINS, SEEPAGE DRAINS, PAVEMENT RESTORATION AND PAVEMENT...
28. CONTRACTOR TO SUBMIT AS-BUILT DRAWINGS TO THE CITY OF DANIA BEACH...
29. FINAL AS-BUILT DRAWINGS TO BE SUBMITTED TO THE CITY OF DANIA BEACH...
30. SIX (6) SIGNED AND SEALED HARD COPIES
31. ONE (1) ELECTRONIC FILE (PDF)

AS-BUILT DRAWINGS

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4. ONE (1) ELECTRONIC FILE (PDF)

PAVING AND GRADING NOTES

- 1. UNDERGROUND UTILITIES SHALL BE COMPLETED OR SLEEVING PROVIDED...
2. ALL PAVEMENT SUBGRADE MATERIAL SHALL BE COMPACTED TO 98%...
3. IF THE PLANS INDICATE A LIMEROCK BASE, THE CONSTRUCTION AND THE MATERIAL...
4. THE PRIME AND TACK COAT CONSTRUCTION AND MATERIALS FOR THE PRIME...
5. ASPHALTIC CONCRETE SURFACE COURSE SHALL BE AS SHOWN ON THE PLANS...
6. THE MATERIAL TO BE USED AS A STABILIZER SHALL BE SOIL OF HIGH BEARING...
7. ALL GRADES SHOWN REFER TO FINISHED ASPHALT PAVEMENT...
8. MATERIAL HAVING A PLASTICITY INDEX AT MORE THAN 10 OR A LIQUID LIMIT...
9. WHERE THE BEARING VALUE OF THE EXISTING SUBGRADE IS ADEQUATE...
10. THE SUBGRADE SHALL BE SCARIFIED AND DICED, HARROWED, BLADED...
11. THE SUBGRADE TO BE STABILIZED MAY BE PROCESSED IN ONE COURSE...
12. PRIOR TO THE BEGINNING OF STABILIZING OPERATIONS, THE AREA TO BE...
13. THE STABILIZING MATERIAL SHALL BE APPLIED IN SUCH QUANTITY AS IS...
14. COMPACTION SHALL BE ACCOMPLISHED BY ROLLING WITH ANY TYPE OF...
15. THE LIMEROCK SHALL BE TRANSPORTED TO THE POINT WHERE IT IS TO...
16. THE LIMEROCK SHALL BE SPREAD UNIFORMLY, WITH EQUIPMENT...
17. COMPACTION SHALL BE ACCOMPLISHED AT OPTIMUM MOISTURE...
18. BEFORE ANY BITUMINOUS MATERIAL IS APPLIED, ALL LOOSE MATERIAL...
19. NO BITUMINOUS MATERIAL SHALL BE APPLIED WHEN THE TEMPERATURE...
20. THE SURFACE TO BE PRIMED SHALL BE CLEAN AND DRY FOR LIMEROCK...
21. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE...

RESULTS IN WHICH CASE, THE CITY WILL DIRECT THAT THE PROCESSING BE DONE IN MORE THAN ONE COURSE.

- 12. PRIOR TO THE BEGINNING OF STABILIZING OPERATIONS, THE AREA TO BE...
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PROJECT: CITY OF HOLLYWOOD TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

PROJECT NO. DCM-001187

CLIENT: CITY OF HOLLYWOOD, FL DEPARTMENT OF DESIGN AND CONSTRUCTION MANAGEMENT

2600 HOLLYWOOD BLVD. HOLLYWOOD FL. 33020



PRIME CONSULTANT: CUMMINS CEDERBERG COASTAL, MARINE & ENVIRONMENTAL

SUBCONSULTANTS: CURTIS + ROGERS LANDSCAPE ARCHITECTURE

NJV|5 GEOTECHNICAL ENGINEER

KEITH & ASSOCIATES SURVEYOR

CHEN MOORE AND ASSOC CIVIL ENGINEER

BRIZAGA PUBLIC OUTREACH

DAVID EDGARDO CASTRO FELIU, PE STATE OF FLORIDA PROFESSIONAL ENGINEER

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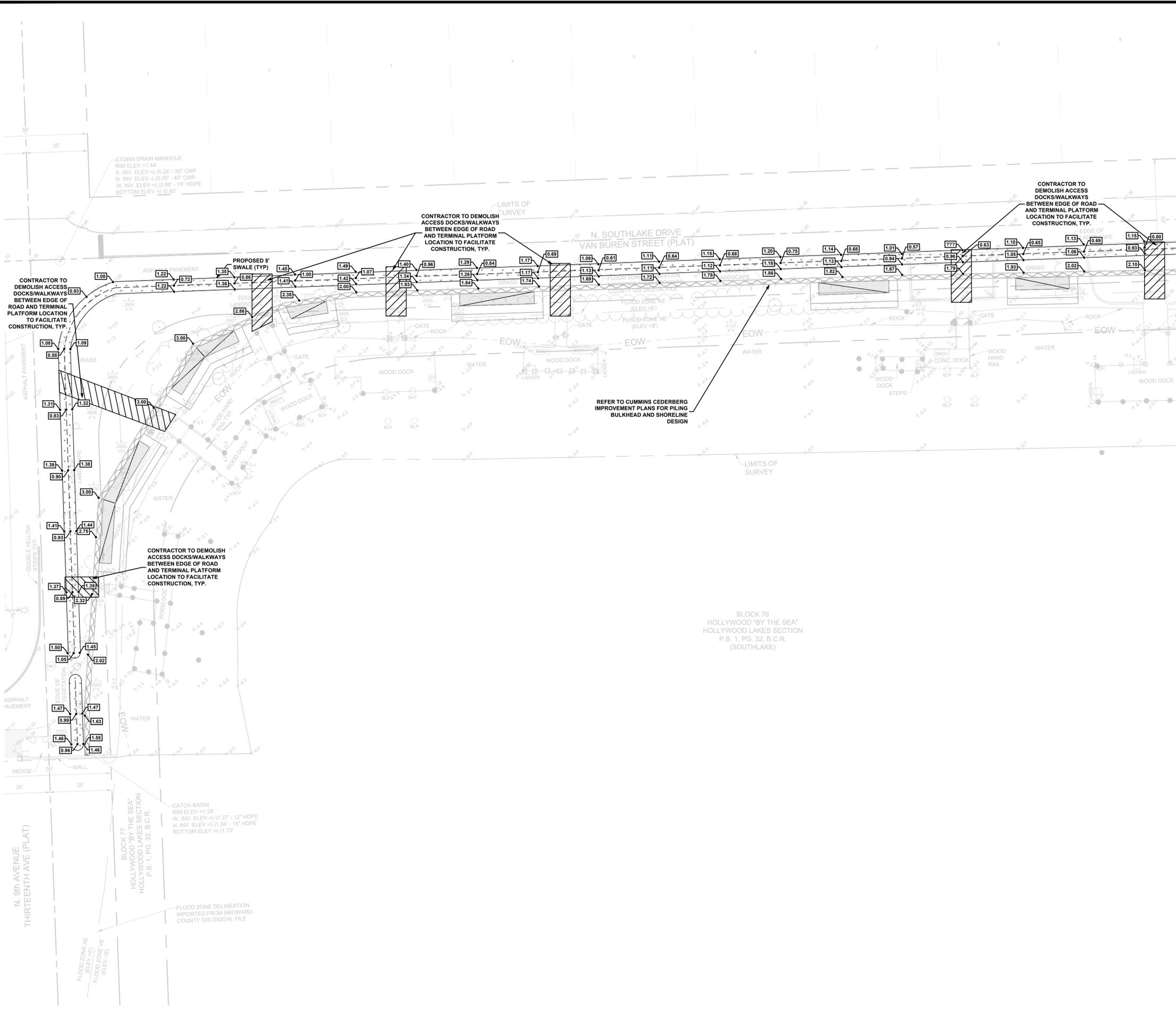
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GENERAL NOTES

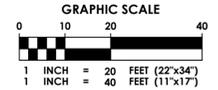
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MATCHLINE SEE DRAWING NO. C-3.2



LEGEND

	PROPOSED ELEVATION
	PROPOSED SURFACE FLOW ARROW
	PROPOSED SIDE SLOPE
	PROPOSED GRASS
	PROPOSED STORM DRAIN PIPE WITH INFILTRATION TRENCH

PROJECT:
 CITY OF HOLLYWOOD TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

PROJECT NO. DCM-001187

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 DEPARTMENT OF DESIGN AND CONSTRUCTION MANAGEMENT
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SCALE: #####

SHEET TITLE
SITE 10 PAVING, GRADING & DRAINAGE PLAN

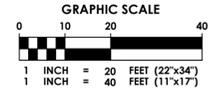
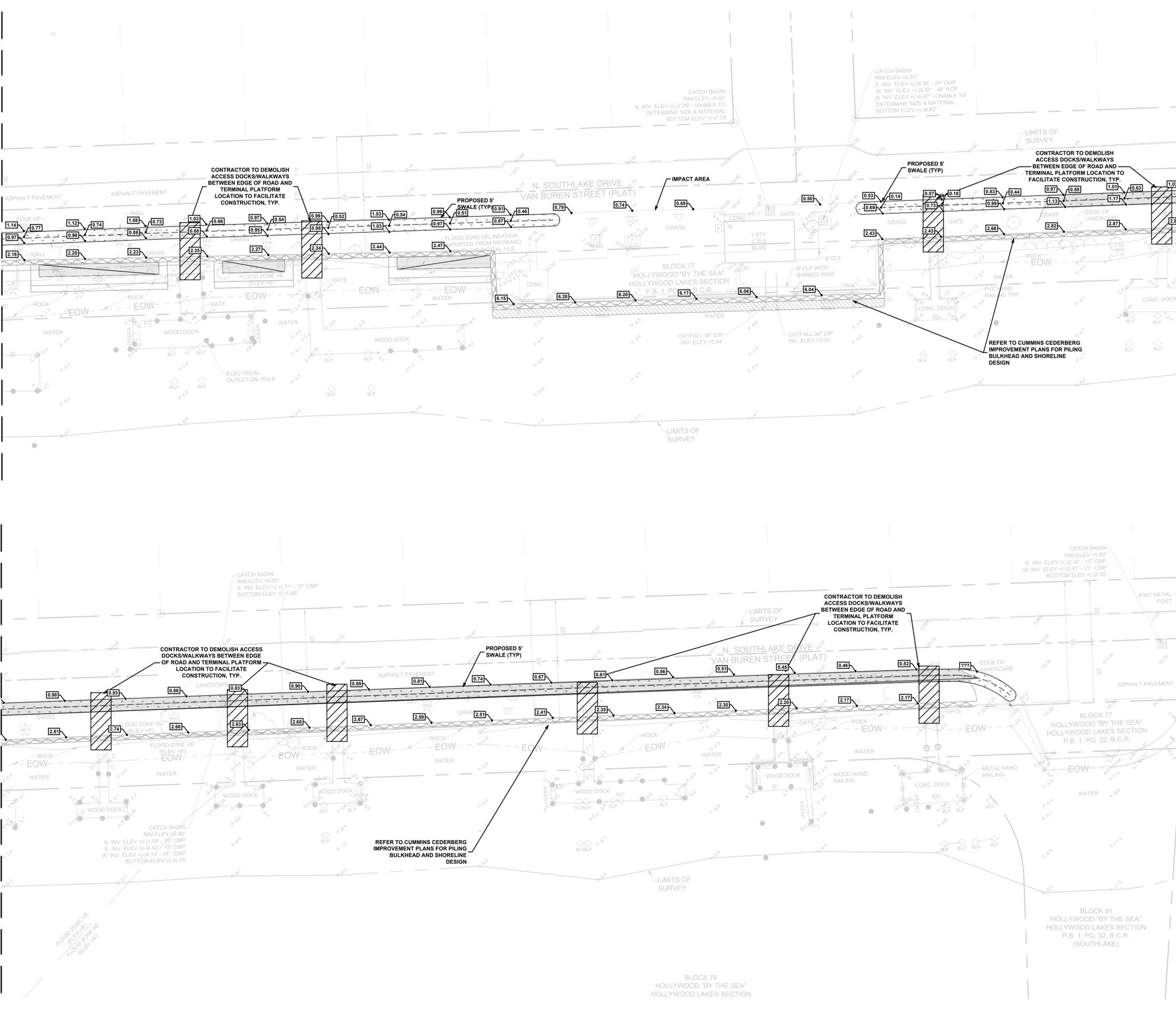
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- LEGEND**
- PROPOSED ELEVATION
 - PROPOSED SURFACE FLOW ARROW
 - PROPOSED SIDE SLOPE
 - PROPOSED GRASS
 - PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH

PROJECT:
CITY OF HOLLYWOOD TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL DEPARTMENT OF DESIGN AND CONSTRUCTION MANAGEMENT

2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020

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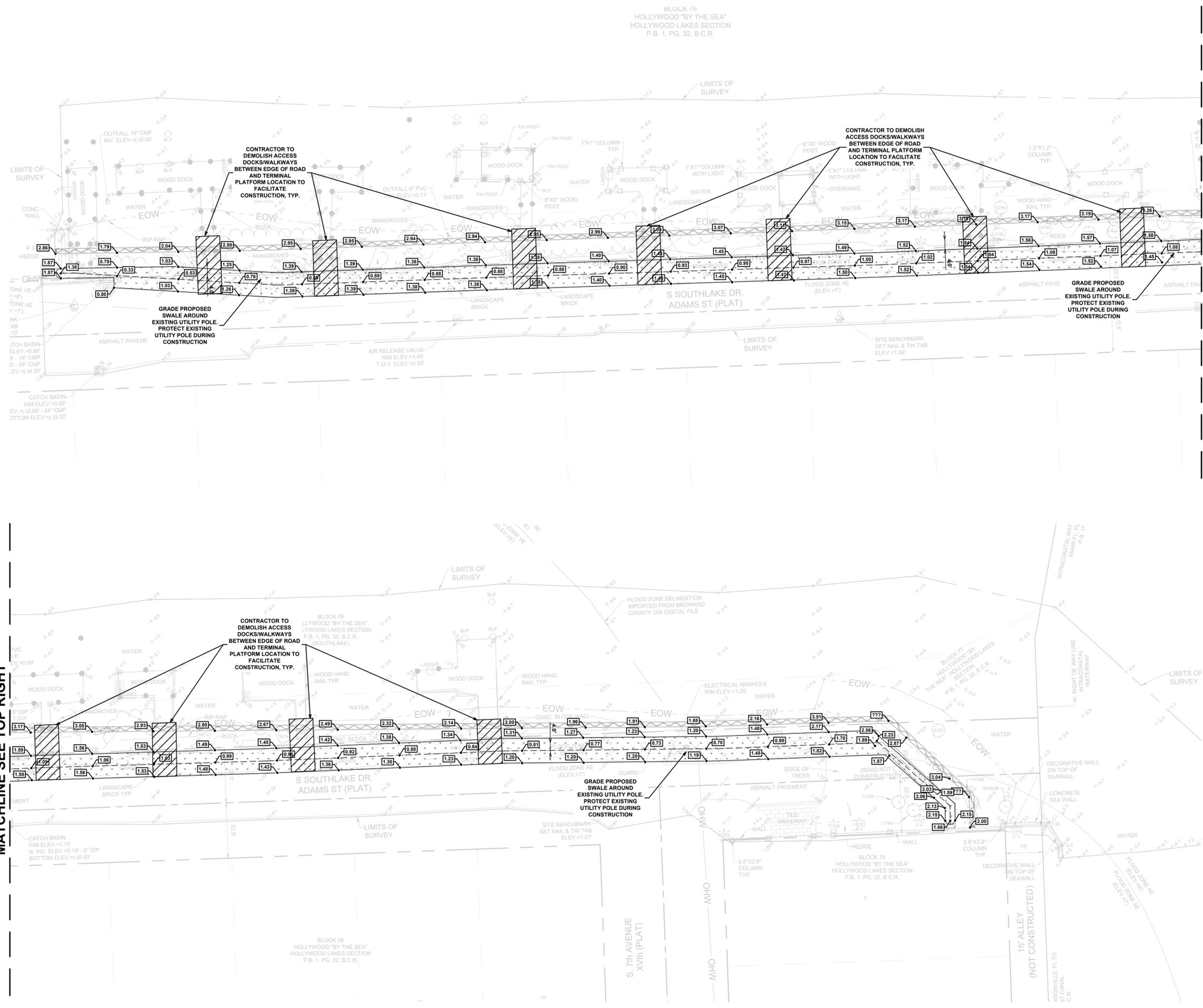
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SHEET TITLE
SITE 10 PAVING, GRADING & DRAINAGE PLAN

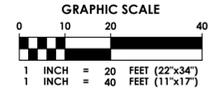
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MATCHLINE SEE BOTTOM LEFT



LEGEND

	PROPOSED ELEVATION
	PROPOSED SURFACE FLOW ARROW
	PROPOSED SIDE SLOPE
	PROPOSED GRASS
	PROPOSED STORM DRAIN PIPE WITH INFILTRATION TRENCH

PROJECT:
CITY OF HOLLYWOOD TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

PROJECT NO. DCM-001187

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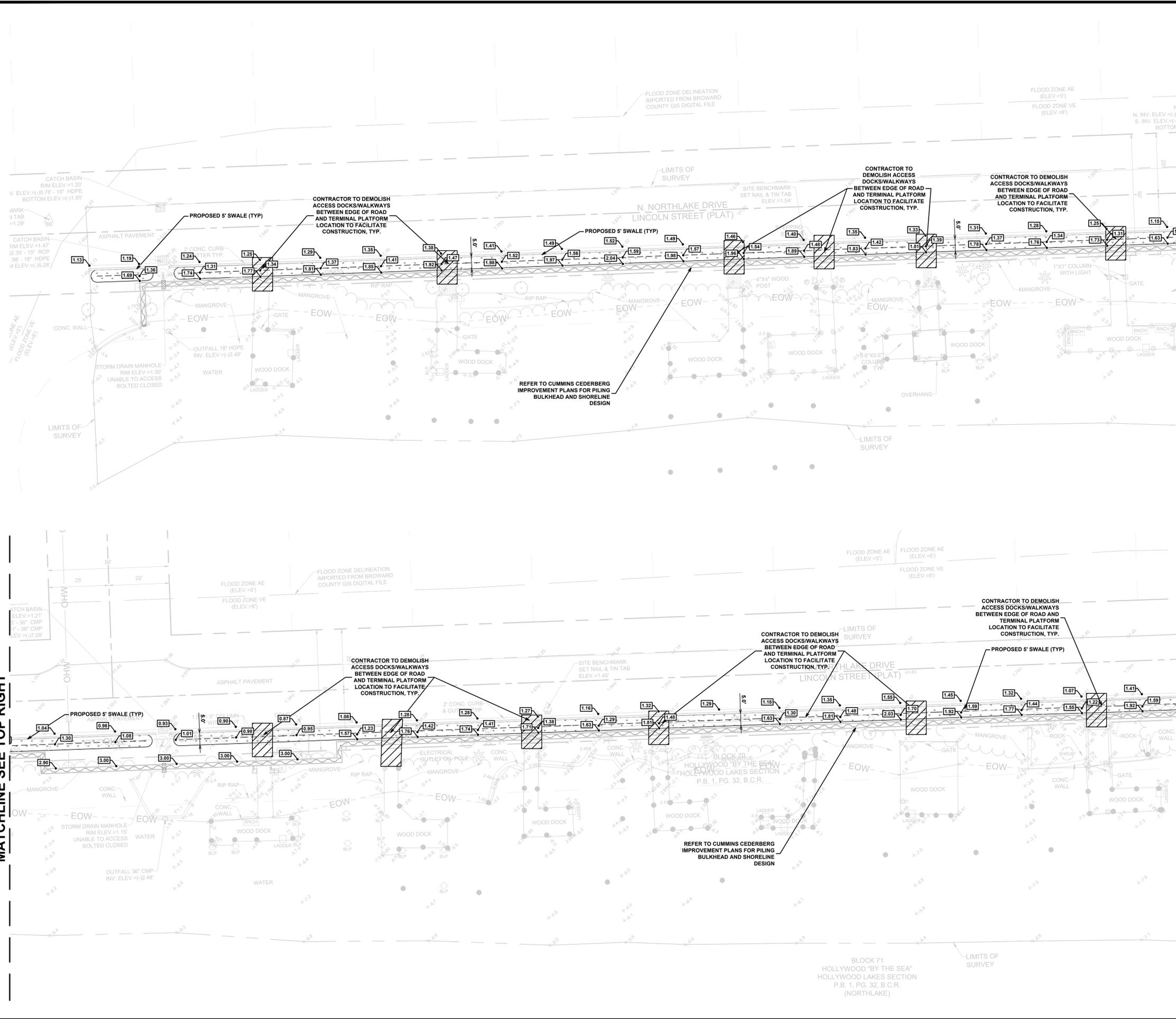
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CHECKED: JM
SCALE: #####

SHEET TITLE
SITE 17 PAVING, GRADING & DRAINAGE PLAN

SHEET 05 OF 00

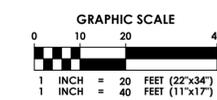
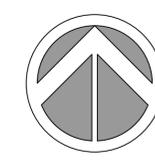
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MATCHLINE SEE DRAWING NO. C-5.2



LEGEND

	PROPOSED ELEVATION
	PROPOSED SURFACE FLOW ARROW
	PROPOSED SIDE SLOPE
	PROPOSED GRASS
	PROPOSED STORM DRAIN PIPE WITH INFILTRATION TRENCH

PROJECT:
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FORT LAUDERDALE, FL 33309
TEL: 954-634-3533

DAVID EDGARDO CASTRO FELIU, PE
STATE OF FLORIDA
PROFESSIONAL ENGINEER
LICENSE NO. 85558

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ISSUE	DATE	PERMIT DRAWINGS SUBMISSION / REVISION
1	07/10/2023	

CC PROJECT NO: 84300

DRAWN: DC
CHECKED: JM
SCALE: #####

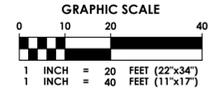
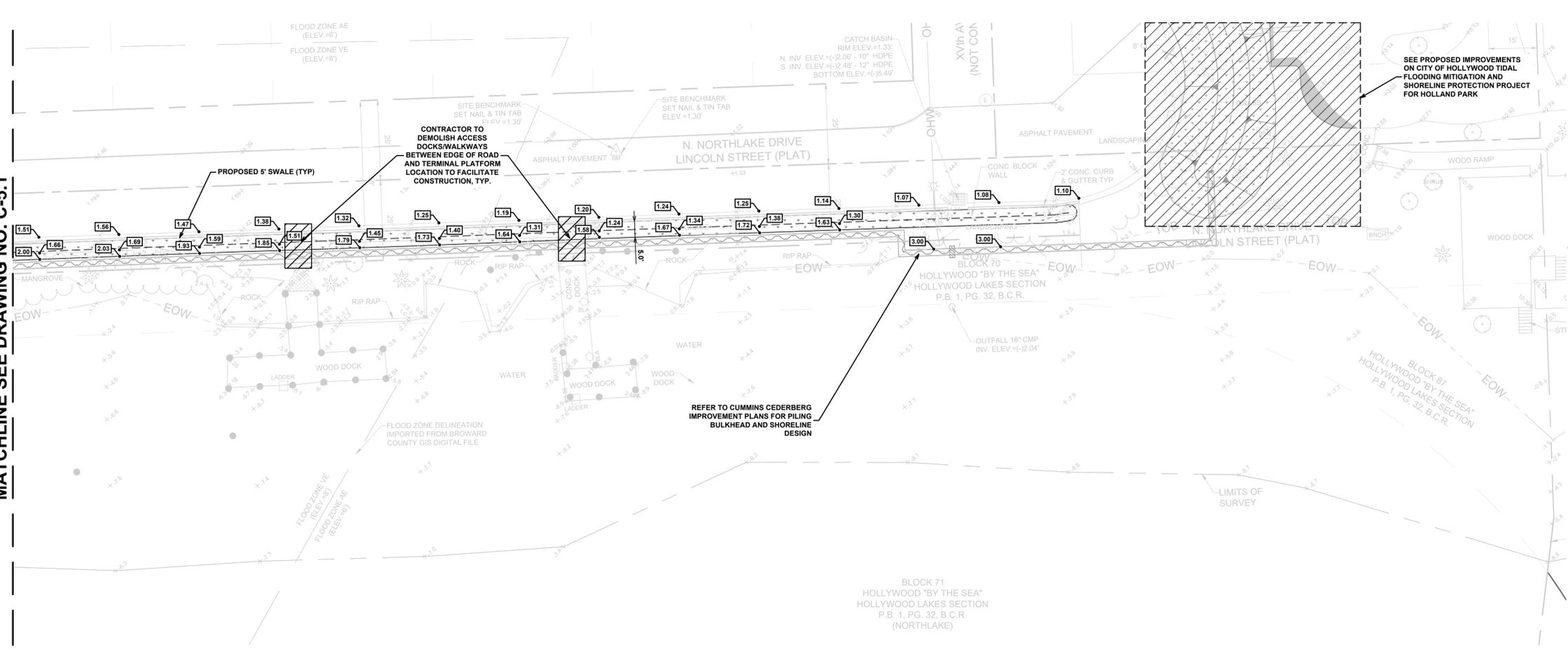
SHEET TITLE
SITE 19 PAVING, GRADING & DRAINAGE PLAN

SHEET 06 OF 00

C-5.1

MATCHLINE SEE DRAWING NO. C-5.1

V:\Projects\2023\23-0457\00010 - Tidal Flooding Mitigation & Shoreline Design\Site 9_10_17_19\CAD\Streets\23-0457\00010 Paving, Grading & Drainage Plans.dwg



LEGEND

	PROPOSED ELEVATION
	PROPOSED SURFACE FLOW ARROW
	PROPOSED SIDE SLOPE
	PROPOSED GRASS
	PROPOSED STORM DRAIN PIPE WITH EXFILTRATION TRENCH

PROJECT:
CITY OF HOLLYWOOD TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL
DEPARTMENT OF DESIGN AND CONSTRUCTION MANAGEMENT

2600 HOLLYWOOD BLVD.
HOLLYWOOD FL. 33020



PRIME CONSULTANT:
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C.O.A. #29062

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NO.	DATE	ISSUE	PERMIT DRAWINGS SUBMISSION / REVISION
1	07/10/2023	ISSUE	

CC PROJECT NO:	84300
DRAWN	DC
CHECKED	JM
SCALE	#####

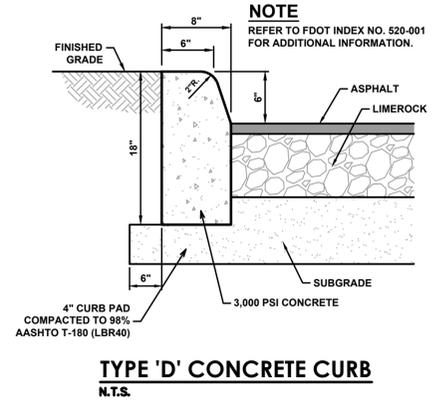
SHEET TITLE
SITE 19 PAVING, GRADING & DRAINAGE PLAN

SHEET 07 OF 00

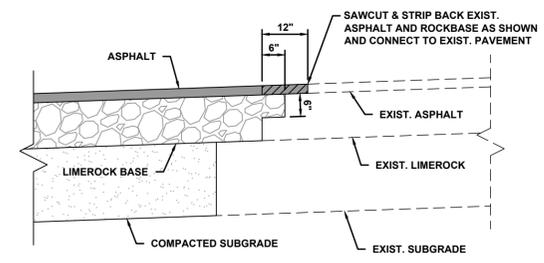
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GENERAL NOTES:

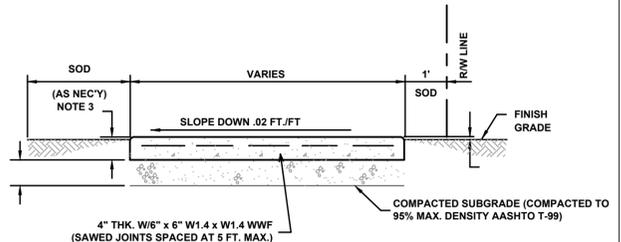
1. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.
2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF HOLLYWOOD DEPARTMENT OF DEVELOPMENT SERVICES, ENGINEERING, TRANSPORTATION & MOBILITY DIVISION, AND ALL OTHER LOCAL, STATE AND NATIONAL CODES, WHERE APPLICABLE.
3. LOCATIONS, ELEVATIONS, SIZES, MATERIALS, ALIGNMENTS, AND DIMENSIONS OF EXISTING FACILITIES, UTILITIES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS; AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. ALSO, THERE MAY HAVE BEEN OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS AND/OR THE ORIGINAL SITE SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND OTHER FEATURES AFFECTING HIS/HER WORK PRIOR TO CONSTRUCTION, AND NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICT BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY FACILITIES EXHIBED OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL WORK AS NEEDED TO AVOID CONFLICT WITH EXISTING UTILITIES (NO ADDITIONAL COST SHALL BE PAID FOR THIS WORK). EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE RESPECTIVE UTILITY OWNER.
4. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION AND ENVIRONMENTAL PERMITS PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL NOTIFY PUBLIC UTILITIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
6. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND INSTALLATION OF THE PROPOSED IMPROVEMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY OTHER AGENCY SHOP DRAWING APPROVAL, IF REQUIRED.
7. ELEVATIONS SHALL BE IN FEET AND REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
8. CITY OF HOLLYWOOD SHALL NOT PROVIDE STAGING/STORAGE AREA. CONTRACTOR SHALL SECURE STAGING/STORAGE AREA AS NECESSARY FOR CONSTRUCTION WORK.
9. CONTRACTOR SHALL HAUL AWAY EXCESSIVE STOCKPILE OF SOIL FOR DISPOSAL EVERY DAY. NO STOCKPILE SOIL IS ALLOWED TO BE LEFT ON THE CONSTRUCTION SITE OVER NIGHT.
10. CONTRACTOR SHALL CLEAN/SWEEP THE ROAD AT LEAST ONCE A DAY OR AS REQUIRED BY THE ENGINEER.
11. CONTRACTOR SHALL PROTECT CATCH BASINS WITHIN/ADJACENT TO THE CONSTRUCTION SITE AS REQUIRED BY NPDES REGULATIONS.
12. CITY OF HOLLYWOOD HAS A NOISE ORDINANCE (CHAPTER 100) WHICH PROHIBITS EXCAVATION AND CONSTRUCTION BEFORE 8:00 A.M. AND AFTER 6:00 P.M., MONDAY THROUGH SATURDAY AND ALL DAY SUNDAY.
13. SUITABLE EXCAVATED MATERIAL SHALL BE USED IN FILL AREAS. NO SEPARATE PAY ITEM FOR THIS WORK, INCLUDE COST IN OTHER ITEMS.
14. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS, PARKING LOTS, SIDEWALKS, ETC. TO SATISFY THE INSTALLATION OF THE PROPOSED IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL NOT ENCRoACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT. IN CASE WORK ON PRIVATE PROPERTY IS NEEDED, A CITY OF HOLLYWOOD "RIGHT OF ENTRY" FORM MUST BE SIGNED BY PROPERTY OWNER AND THE DIRECTOR OF DEVELOPMENT SERVICES. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS AT ALL TIMES TO PRIVATE HOMES/BUSINESSES.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION, CAUSED TO ANY IRRIGATION SYSTEM (PRIVATE OR PUBLIC) ACCIDENTALLY OR PURPOSELY. THE CONTRACTOR SHALL REPLACE ANY DAMAGED, REMOVED OR MODIFIED IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PERTINENT APPURTENANCES TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE CITY.
17. MAIL BOXES, FENCES OR OTHER PRIVATE PROPERTY DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLACED TO MATCH OR EXCEED EXISTING CONDITION.



TYPE 'D' CONCRETE CURB
N.T.S.



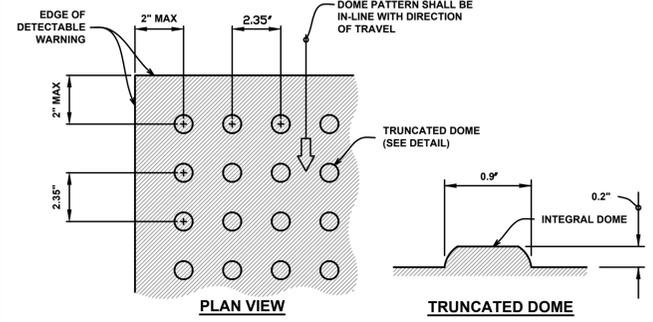
CONNECTION TO EXISTING PAVEMENT DETAIL
N.T.S.



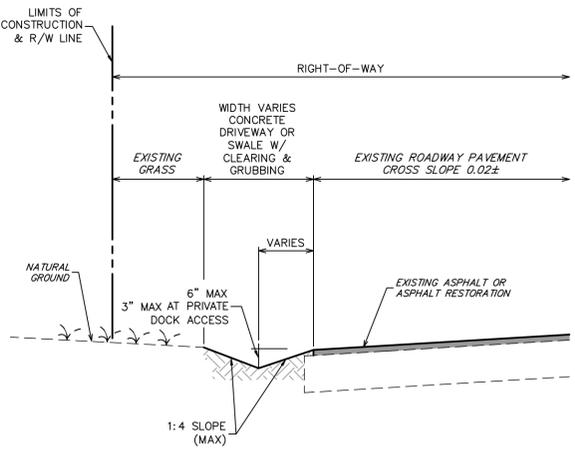
- NOTES**
1. CONCRETE TO BE CLASS 1, 2,500 PSI IN 28 DAYS.
 2. USE OF FIBER REINFORCED CONCRETE IS PROHIBITED.
 3. 4" THICK MIN. (TYP.); 6" THICK AT DRIVEWAYS, EXTENDED TWO-FEET BEYOND DRIVE, ON BOTH SIDES.
 4. SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT.
 5. INCLUDES ANY CUT AND/OR FILL TO ACHIEVE DESIGN SLOPES.
 6. PROVIDE 18" CONSTRUCTION JOINTS AT 5' c.c., MINIMUM DEPTH 1/2".
 7. PROVIDE 1/2" EXPANSION JOINTS W/ NON-RISING FILLER AT 30' c.c.
 8. CURE ALL CONCRETE WITH CLEAN SAND, PLASTIC MEMBRANE, OR OTHER APPROVED METHOD.

CONCRETE SIDEWALK SECTION
N.T.S.

- NOTES**
1. DETECTABLE WARNING SURFACE AS REQUIRED PER AMERICAN WITH DISABILITIES ACT DESIGN STANDARDS REQUIRED AT ALL CONCRETE SIDEWALK LANDINGS WITHIN PROJECT LIMITS.
 2. STAMPED CONCRETE IS NOT PERMITTED FOR DETECTABLE WARNING SURFACES. ARMOR TILE OR AN APPROVED EQUAL SHALL BE USED.
 3. WHEN NOT PLACED ON CURB RAMP, DETECTABLE WARNINGS SHALL BE PLACED ON THE WALKING SURFACES ADJOINING A VEHICULAR WAY. THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36" WIDE.
 4. UNLESS NOT PLACED DIRECTLY ON A RAMP, DETECTABLE WARNING SURFACE MUST NOT EXCEED 2% SLOPE IN ANY DIRECTION.
 5. WHEN PLACED ON CURB RAMP, DETECTABLE WARNING SURFACE SHALL EXTEND THE FULL LENGTH AND WIDTH OF THE RAMP. FOR RAMP WITHIN FDOT RIGHT-OF-WAY, REFER TO THE LATEST VERSION OF THE FDOT DESIGN STANDARDS INDEX #304.
 6. CONSTRUCTION OF DETECTABLE WARNING SURFACE IS NOT LIMITED TO CONCRETE MATERIAL. HOWEVER, PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST INFORM TO THE ENGINEER OF RECORD THE PROPOSED MATERIAL FOR THE DETECTABLE WARNING SURFACE. CONTRACTOR MUST ENSURE THAT THE FOLLOWING TRUNCATED DOME CRITERIA IS MET:
 - A. DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES. THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%.
 - B. 90% OF THE INDIVIDUAL TRUNCATED DOMES MUST COMPLY WITH THE SPECIFIED DIMENSIONS AND DESIGN CRITERIA.
 - C. NO TWO ADJACENT DOMES MAY BE NON-COMPLIANT.
 - D. SURFACE MAY NOT DEVIATE MORE THAN 0.1" FROM A TRUE PLAN.

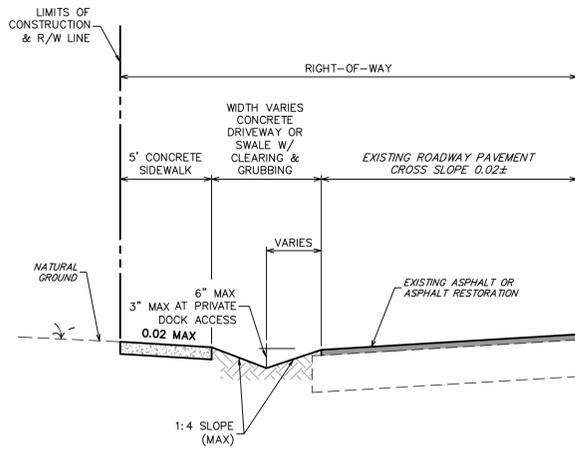


DETECTABLE WARNING
N.T.S.



- NOTE:**
- THE ROOT SYSTEM FOR ALL EXISTING TREES TO REMAIN SHALL NOT BE IMPACTED BY ANY EARTHWORK ACTIVITIES RELATED TO SWALE REGRADING. SWALE REGRADING SHALL NOT BE COMPLETED WITHIN THE CRITICAL PROTECTION ZONE IS THE AREA SURROUNDING AN EXISTING TREE WITHIN A CIRCLE DEFINED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE TRUNK DIAMETER AT 54 INCHES ABOVE FINISHED GRADE. THE CRITICAL PROTECTION ZONE SHALL HAVE A 4 FOOT MINIMUM RADIUS AND 8 FOOT MAXIMUM RADIUS FROM THE CENTER OF THE TREE TRUNK.

TYPICAL SWALE REGRADING WITHOUT SIDEWALK
N.T.S.



- NOTE:**
- THE ROOT SYSTEM FOR ALL EXISTING TREES TO REMAIN SHALL NOT BE IMPACTED BY ANY EARTHWORK ACTIVITIES RELATED TO SWALE REGRADING. SWALE REGRADING SHALL NOT BE COMPLETED WITHIN THE CRITICAL PROTECTION ZONE IS THE AREA SURROUNDING AN EXISTING TREE WITHIN A CIRCLE DEFINED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE TRUNK DIAMETER AT 54 INCHES ABOVE FINISHED GRADE. THE CRITICAL PROTECTION ZONE SHALL HAVE A 4 FOOT MINIMUM RADIUS AND 8 FOOT MAXIMUM RADIUS FROM THE CENTER OF THE TREE TRUNK.

TYPICAL SWALE REGRADING WITH SIDEWALK
N.T.S.

PROJECT:
CITY OF HOLLYWOOD TIDAL FLOODING MITIGATION AND SHORELINE PROTECTION PROJECT

PROJECT NO. DCM-001187

CLIENT:
CITY OF HOLLYWOOD, FL DEPARTMENT OF DESIGN AND CONSTRUCTION MANAGEMENT
2600 HOLLYWOOD BLVD. HOLLYWOOD FL. 33020



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NJV|5
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STATE OF FLORIDA
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ISSUE	DATE	PERMIT DRAWINGS SUBMISSION / REVISION
1	07/10/2023	

CC PROJECT NO:	84300
DRAWN	DC
CHECKED	JM
SCALE	AS SHOWN

SHEET TITLE
DETAILS

SHEET 08 OF 00
C-6.1

ISSUED: MAY 2023	DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION	REVISED: -
DRAWN: EG	GENERAL NOTES (1 OF 2)	DRAWING NO.: C-01
APPROVED: JG		

18. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX, LATEST EDITION, AND CITY OF HOLLYWOOD DEPARTMENT OF DEVELOPMENT SERVICES STANDARDS.
19. NO TREES ARE TO BE REMOVED OR RELOCATED WITHOUT PRIOR APPROVAL FROM THE CITY ENGINEER.
20. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY TREE REMOVAL OR RELOCATION PERMITS FROM THE CITY OF HOLLYWOOD BUILDING DEPARTMENT FOR TREES LOCATED IN THE PUBLIC RIGHT OF WAY.
21. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE REGULATORY STANDARDS/REQUIREMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF CITY ENGINEER.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS TO EXISTING PAVEMENT, SIDEWALKS, PIPES, CONDUITS, CURBS, CABLES, ETC., WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTORS OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROMPTLY AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC., PRIOR TO BEGINNING WORK IN ANY AREA.
23. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT TO MATCH EXISTING CONDITIONS.
24. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPENED AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES, WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE DIRECTED. ALL TRENCHES SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN/VEHICULAR TRAFFIC.
25. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF OFF THE PROPERTY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
26. ALL RAMPS, SIDEWALK CURB RAMP, AND, ACCESSIBLE ROUTES SHALL BE ADA COMPLIANT AND SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX, LATEST EDITION.
27. ALL GRASSED AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OF THE LATEST REVISION OF FDOT DESIGN STANDARDS. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETING OF ALL TRAFFIC CONTROL AND INFORMATION SIGNAGE REMOVED DURING THE CONSTRUCTION PERIOD.
29. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
30. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE CITY'S INSPECTOR WILL SHUT THE JOB DOWN.
31. CONTRACTOR MUST PROVIDE FLASHER ARROW SIGNAL FOR ANY LANE THAT IS CLOSED OR DIVERTED.
32. THE CITY PREFERS THAT IT'S OWN POLICE OFFICERS PROVIDE TRAFFIC CONTROL TO ENSURE SAFE AND EFFICIENT INTERSECTION OPERATIONS IS MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION, THEREFORE, PLEASE CONTACT MR. JANEL DIXON TO ARRANGE FOR A DETAIL TO PROVIDE THIS SERVICE. HE MAY BE REACHED AT 954-967-4500 OR VIA EMAIL AT jdixon@hollywoodfl.org.
33. CONTRACTOR TO RESTORE PAVEMENT TO ORIGINAL CONDITION AS REQUIRED, REFER TO BCTED, PAVING MARKINGS AND SIGNS DETAILS PLAN, LATEST EDITION.
34. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS NOTICE TO UTILITY COMPANIES TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. CONTACT UTILITIES NOTIFICATION CENTER AT 811 OR 1-800-432-4770 (SUNSHINE ONE-CALL OF FLORIDA).



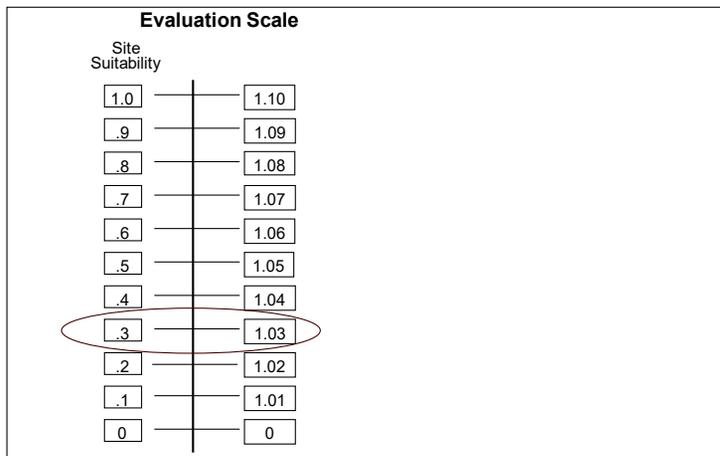
ISSUED: MAY 2023	DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION	REVISED: -
DRAWN: EG	GENERAL NOTES (2 OF 2)	DRAWING NO.: C-02
APPROVED: JG		

V:\Projects\2023\23-0457\00010 - Tidal Flooding Mitigation & Shoreline Design\Sheets\9_10_17_19\CAD\Sheets\23-0457\00010 Details.dwg
 Broward County and State ERP
 Page 47 of 55
 Xref: References\2023\23-0457\00010 X Title Block CC 22x34.dwg

Mitigation Bank Site Suitability Evaluation (MBSE) Matrix

Parameters			
Parameter	Scoring Criteria	Ratings	Score
1. Adjacent to lands or waters of regional Importance and results in identifiable ecological benefits to adjacent lands or waters.	State Park, OFW, AP, and including but not limited to Special Waters on at least 1 boundary	0	0
	Adjacent lands contain no special designation or undesignated special value	1	
2. Property is within boundary of an acknowledged state, local or regional acquisition program	Property is within boundary of an acquisition program	1	0
	Property is not within boundary of an acquisition program	0	
3. Property contains ecological or geological features consistently considered by regional Scientist, or federal and state agencies to be unusual, unique or rare in the region and is of sufficient size	Property qualifies	1	1
	Property does not qualify	0	
4. Property designated as being of critical state or federal concern and/or contains special designations,	Property contains at least 1 special designation.	1	1
	Property contains no special designations.	0	
5. Property important to acknowledged restoration efforts	Property is important.	1	0
	Property is not important.	0	
6. Ownership and control of the property.	Property is privately owned.	1	0
	Property is publicly owned.	0	
7. Threatened, Endangered & Species of Special Concern Presence of animal species (faunal) found on site	Documented Presence of Species on site	1	0
	No documented Presence of species on site.	0	
8. Threatened, Endangered & Listed Species Presence of plant species (floral) found on site	Documented Presence of Species on site	1	0
	No documented Presence of species on site.	0	
9. Threat of loss or destruction from development activities. (Development Pressure)	High probability of development.	1	1
	Low probability of development.	0	
10. Extent to which lands are subject to Local, State, and Federal dredge and fill/ ERP Regulations	Property is not regulated.	1	0
	Property is regulated.	0	
Value Cumulative Score (CS)			3

The Mitigation Bank Site Suitability Evaluation Matrix is designed to provide a quantifiable means of determining the number of mitigation credits that should be assigned to a bank for "value" related parameters. Value related parameters are human values determined to be important to society; and therefore are not measurable in a purely functional analysis. Functional analysis will only measure the degree of functional ecological improvement (degree of ecological improvement) resulting from mitigation activities. The SS Evaluation measures and provides credit for societal values that separate one mitigation bank from another as required by Ch. 62-342 .470 (a) (b) (e) (f) (g) (h) (i) F.A.C.. The SS evaluation is not to be utilized in conjunction with a functional analysis methodology which also utilizes value related parameters in its analysis.



Site Suitability Matrix		
Maximum Possible Score (MPS)		10
Cumulative Score (CS)		3

0.3

EPA, USACOE, USF & W, FDEP, NMFS, SFWMD, Dade DERM, FPL, CH
3-Apr-96

After Calculating the Site Suitability Score determine the Site Suitability Multiplier by utilizing the Evaluation Scale to the left. The Site Suitability Multiplier is to be multiplied times the number of the Functional Mitigation Credits, resulting from the (W.A.T.E.R.) Functional Assessment of the Mitigation Bank, to determine the number of Site Suitability Credits to be assigned to the Mitigation Bank.

W.A.T.E.R. - Wetland Assessment Technique for Environmental Reviews

Scoring conducted by: Cummins Cederberg

Mitigation Bank Wetland Function Evaluation & Impact Site Evaluation Matrix

Data collected on

Wetland Delineation 12/5/2023, Agency Site Visit 3/22/2023

Based on WBI, WQI, WRAP, HGM and 4th Priority Project List (PPL) with technical advise from EPA, FDEP, ACOE, NMFS, USF & W, SFWMD & Miami-Dade County (W.A.T.E.R. created by: Bill L. Maus)

Parameter/ Function	Scoring Criteria	Ratings	Site 2 MG	Site 9 10 17 19 MG	Site 10 SG
			0.105 AC (4,552 SF) impact	Total Mangrove Impacts= 0.10 (4,542.3 SF) Impact above MHWL = 0.079 AC (3,440.8 SF) Impact below MHWL = 0.025 AC (1,101.5 SF)	0.0004 AC (17.6 SF) impact
1. Fish & Wildlife Functions Apply to freshwater, saltwater, brackish and mitigation systems					
a. Waterfowl, wading birds, wetland dependent, or aquatic birds of prey. (Mit. Bank - High specie count w/ low pop. #'s score 1)	7 or more species commonly observed	3	1	1	0
	3-6 species commonly observed	2			
	1-2 species commonly observed	1			
	0 species commonly observed	0			
b. Fish (Mit. Bank - High specie count w/ low pop. #'s score 1) Restoration that causes 12% pop. Increases-higher score)	7 or more species commonly observed	3	0	0	1
	3-6 species commonly observed	2			
	1-2 species commonly observed	1			
	0 species commonly observed	0			
c. Mammals (Mit. Bank - High specie count w/ low pop. #'s score 1) Restoration that causes 12% pop. Increases-higher score)	Top predator (carnivore) &/or large mammals	3	1	0	N/A
	Medium sized mammals , (adult weight > 6 lbs.)	2			
	Small animals (rodents, etc.) , (adult weight < 6 lbs.)	1			
	0 species present	0			
d. Aquatic macroinvertebrates, amphibians (Mit. Bank - High specie count w/ low pop. #'s score 1) Restoration that causes 12% pop. Increases-higher score)	7 or more species commonly observed	3	1	1	1
	3-6 species commonly observed	2			
	1-2 species commonly observed	1			
	0 species commonly observed	0			
e. Aquatic reptiles (Mit. Bank - High specie count w/ low pop. #'s score 1) Restoration that causes 12% pop. Increases-higher score)	Large species observed	3	1	1	N/A
	Aquatic turtles	2			
	Snakes & lizards	1			
	No evidence of species present	0			

W.A.T.E.R. - Wetland Assessment Technique for Environmental Reviews

Scoring conducted by: Cummins Cederberg

Mitigation Bank Wetland Function Evaluation & Impact Site Evaluation Matrix

Data collected on

Wetland Delineation 12/5/2023, Agency Site Visit 3/22/2023

Based on WBI, WQI, WRAP, HGM and 4th Priority Project List (PPL) with technical advise from EPA, FDEP, ACOE, NMFS, USF & W, SFWMD & Miami-Dade County (W.A.T.E.R. created by: Bill L. Maus)

Parameter/ Function	Scoring Criteria	Ratings	Site 2 MG	Site 9 10 17 19 MG	Site 10 SG
			0.105 AC (4,552 SF) impact	Total Mangrove Impacts= 0.10 (4,542.3 SF) Impact above MHWL = 0.079 AC (3,440.8 SF) Impact below MHWL = 0.025 AC (1,101.5 SF)	0.0004 AC (17.6 SF) impact
2. Vegetative Functions Apply to freshwater, saltwater, brackish and mitigation systems					
a. Overstory/shrub canopy	Desirable trees/shrub healthy & providing appropriate habitat (seedlings present) & no inappropriate species	3	1	1	N/A
	Desirable trees/shrubs exhibit signs of stress (no seedlings) few inappropriate species present	2			
	Inappropriate trees/shrubs shading or overcoming desirable tree/shrubs	1			
	Very little or no desirable tree/shrubs present (evidence suggests there should be)	0			
b. Vegetative ground cover	Assessment area exhibits <2% inappropriate herbaceous ground cover for specific wetland systems and groundcover is present	3	0	N/A	N/A
	Assessment area contains >2% but <30% inappropriate herbaceous groundcover, or lack of groundcover >2% but < 30%	2			
	Assessment area contains >30% to <70% inappropriate herbaceous groundcover, or lack of ground cover >30% to <70%	1			
	Assessment area >70% inappropriate herbaceous groundcover or lack of groundcover >70%	0			
c. Periphyton mat coverage	Periphyton (Blue-green algae) present with average mat thickness >1 1/4 in. (measure active & dead layer)	3	0	0	0
	Periphyton (Blue-green algae) present with average mat thickness between 3/4 in. to 1 1/4 in. (active & dead layer)	2			
	Periphyton (Blue-green algae) present with average mat thickness between 1/4 in. to 3/4 in. (active & dead layer)	1			
	Periphyton (Blue-green algae) not present or if present with average thickness of 0.0 to 1/4 in. (active & dead layer)	0			
d. Category 1 and Category 2 exotic plants or (non-native) species	< (or = to) 1 % exotic plant cover	3	1	1	N/A
	>1 % to 10 % exotic plant cover	2			
	>10 % to 65 % exotic plant cover	1			
	> 65 % exotic plant cover	0			
e. Habitat diversity (vegetative) (within assessment area)	>3 native species communities on site within assessment area	3	1	1	1
	2 or 3 native specie communities on site within assessment area	2			
	1 native species community with 75 % to 90 % coverage within assessment area	1			
	1 native species community has > 90 % coverage within assessment area	0			
f. Biological diversity within 3000 feet (approximately 1/2 mile from edge of assessment area)	> 3 alternative habitats available (including upland)	3	0	1	1
	2 to 3 alternative habitats	2			
	1 alternative habitat	1			
	Same habitat type, or inappropriate / impacted	0			

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3. Hydrologic Functions					
a. Surface water hydrology / sheet flow <i>Apply to freshwater, saltwater, brackish and mitigation systems</i>	Major connection (<i>Flowing water/ river or floodplain/ uniform flow through natural systems</i>)	3	1	1	2
	Moderate connection (<i>Natural restriction of flow or Flowing water due to hydrologic engineering</i>)	2			
	Minor connection (<i>Runoff collection point, or uneven flow due to berms, ditches, roadways etc.</i>)	1			
	Hydrologically isolated, no net lateral movement	0			
b. Hydroperiod (normal year) fresh systems	> 8 months inundated with no reversals & every year drydown	3	N/A	N/A	N/A
	>5 months < 8 months or >5 years continuous inundation (look for strong water stains on persistent vegetation)	2			
	>1 month < 5 months, with possible reversals (look for soft or less distinct water stains on persistent vegetation)	1			
	< 4 weeks cumulative annual inundation or < 2 weeks continuous inundation	0			
b-1 Alternate to b. for Short Hydroperiod (normal year) fresh systems:	>10 weeks of continuous inundation including soil saturation	3	N/A	N/A	N/A
	> 6 weeks but <10 weeks of continuous inundation including soil saturation	2			
	>2 weeks but <6 weeks of inundation, including soil saturation	1			
	<2 weeks of continuous inundation	0			
b-2 Alternate to b. for Saltwater, brackish (tidal) systems	Inundated by >90% high tides	3	1	1	N/A
	Inundated by "spring" high tides (bi-monthly)	2			
	Inundated by "extreme high" tides only (biannually)	1			
	Inundated by storm surges only	0			
b-3 Alternate to b. for High Marsh (Juncus-Distichlis)	Inundated by high "spring" tides (monthly) and flushed by fresh water sheetflow every 10 days average	3	N/A	N/A	N/A
	Inundated by high "spring" tides (monthly) and flushed by fresh water sheetflow every 30 days on the average	2			
	Inundated by high "spring" tides (monthly) and exposed to rain only	1			
	Inundated by >50% high tides and exposed to rain only	0			
b-4 Alternate to b. for Riverine systems	Inundated by high tides (daily) and/or receives and maintains fresh water at least into first half of dry season	3	N/A	N/A	N/A
	Inundated by high tides (daily) and/or receives and maintains fresh water during rainy season only	2			
	Inundated by high tides (daily) and/or receives fresh water but does not maintain (reversal) during rainy season	1			
	Inundated by spring tides (bi-monthly) and/or experiences frequent reversals of fresh water (flashy)	0			

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3. Hydrologic Functions continued					
c. Hydropattern (fresh system)	>1 ft. water depth for at least 2.5 months and <6 in. for >1 month (measure water mark/ lichen line), or water depth ideal for specific wetland system.	3	N/A	N/A	N/A
	>6 in to 1 ft. for at least 2.5 months (measure water mark/ lichen line) or water depth borderline over or under for specific wetland system	2			
	<6 in. for at least 2.5 months (measure water mark/ lichen line) or water depth incorrect for specific wetland system	1			
	<6 in. in association with either canals, ditches, swales, culverts, pumps, and/or wellfields, or these factors cause water depth to be too deep for specific system.	0			
c-1 Alternate to c. for Saltwater, brackish (tidal) systems	>1 ft. water depth <2 ft. on 90% high tides	3	0	1	N/A
	> 6 in. water depth <1 ft. on >50% high tides	2			
	< 6 in. water depth, but > than saturated	1			
	Saturated by saline water table only	0			
c-2 Alternate to c. for High Marsh (Juncus-Distichlis)	>10 in. water depth <2 ft. on regular basis during growing season	3	N/A	N/A	N/A
	>5 in. to 10in. water depth on regular basis during growing season	2			
	>1 in. to 5 in. water depth on regular basis during growing season	1			
	>0.0 in. to 1 in. water depth sporadically during growing season	0			
c-3 Alternate to c. for Riverine systems	>2 ft. water depth (main channel) <6 ft. for 8 months	3	N/A	N/A	N/A
	>2 ft. water depth (main channel) <4 ft. for 6 months	2			
	>1 ft. water depth (main channel) <2.5 ft. for 4 months	1			
	<1 ft. water depth, but dry for >4 weeks (dry season)	0			

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3. Hydrologic Functions continued					
d. Water Quality	No indication of poor water quality (lab testing required, all values within acceptable range)	3	N/A	N/A	1
	No visual indicators of poor water quality observed (1 value just over or under acceptable range)	2			
	Visual indicators of poor water quality questionable (2 values over or under acceptable range)	1			
	Visual indicators of poor water quality observed or lab verified (values are out of acceptable range)	0			
e. Intactness of historic topography (soil disturbance)	Unaltered	3	0	0	0
	Slightly altered soil disturbance, < 10% of assessment area	2			
	Moderately altered soil disturbance, < 25% of assessment area	1			
	Extremely altered soil disturbance, may exceed 50% of assessment area	0			
f. Soils, organic (fresh systems)	Organic soil classified hydric soil >12 in. or any thickness over bedrock/caprock with perched water table and either condition covering >90% of surface area	3	N/A	N/A	N/A
	Organic soil classified hydric soil >6 in. but <12 in. and covering >90% of surface area	2			
	Organic soil classified hydric soil >1 in. but <6 in. and covering >50% but <90% of surface area	1			
	Organic soil classified non-hydric soil <1 in. for >50% of surface area	0			
f-1 Alternate to f. for Freshwater, saltwater systems	Sandy soil classified hydric soil with distinct mottling and concretions present in greater than 40% of horizon.	3	N/A	N/A	N/A
	Sandy soil classified hydric soil with mottling and concretions present in > 20% but < 40% of horizon.	2			
	Sandy soil classified hydric soil with light or sparse mottling and concretions < 2 mm diameter or < 20% of horizon.	1			
	Sandy soil exhibits strong evidence of disturbance or mechanical manipulations or is fill material.	0			
f-2 Alternate to f. for Freshwater, saltwater, brackish (tidal) systems	Calcareous loam >12 in. and >90 % of surface area	3	N/A	N/A	N/A
	Calcareous loam >6 in. to <12 in. and >90% of surface area	2			
	Calcareous loam >1 in. to <6 in. and covering >50% but <90% of surface area	1			
	Calcareous loam <1 in. for >50% of surface area	0			

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4. Salinity Parameters Apply to freshwater, saltwater, brackish, hypersaline and mitigation systems - Choose 1					
a. Optimum salinity for fresh systems during growing season based on mean high salinity for a normal year. Apply to freshwater systems within 5 miles of the coast	<2 parts per thousand (ppt)	3	N/A	N/A	N/A
	2 to 3 parts per thousand (ppt)	2			
	4 to 5 parts per thousand (ppt)	1			
	>5 parts per thousand (ppt)	0			
a-1. Alternate to a. Optimum salinity for brackish systems during growing season based on mean high salinity for a normal year. Apply to brackish (tidal) systems only	6 to 8 parts per thousand (ppt)	3	N/A	N/A	N/A
	9 to 13 parts per thousand (ppt)	2			
	14 to 16 parts per thousand (ppt)	1			
	>16 parts per thousand (ppt)	0			
a-2. Alternate to a. Optimum salinity for saline systems during growing season based on mean high salinity for a normal year. Apply to saline marsh (tidal) systems only	17 to 19 parts per thousand (ppt)	3	N/A	N/A	N/A
	20 to 22 parts per thousand (ppt)	2			
	23 to 25 parts per thousand (ppt)	1			
	>25 parts per thousand (ppt)	0			
a-3. Alternate to a. Optimum salinity for hypersaline systems during growing season based on mean high salinity for a normal year. Apply to hypersaline (tidal) systems only	26 to 41 parts per thousand (ppt)	3	N/A	N/A	N/A
	42 to 46 parts per thousand (ppt)	2			
	47 to 51 parts per thousand (ppt)	1			
	>51 parts per thousand (ppt)	0			
a-4 Alternate to a. Optimum salinity for riverine/tidal creek system during growing season based on mean high slainity for a normal year. Apply to riverine systems only	bottom (lower) third between 12 to 25 ppt	3	N/A	N/A	N/A
	middle third between 5 to 11 ppt.				
	upper (top) third between 0 to 4 ppt.	2			
	bottom (lower) third between 25 to 32 ppt				
	middle third between 6 to 24 ppt.	1			
	upper (top) third between 0 to 5 ppt.				
	bottom (lower) third between 30 to 40 ppt	0			
	middle third between 8 to 29 ppt.				
upper (top) third between 0 to 7 ppt.					
bottom (lower) third between 35 to 50 ppt	0				
middle third between 10 to 34 ppt.					
upper (top) third between 0 to 9 ppt.					

W.A.T.E.R. created by: Bill L. Maus

11/1/1998

Cumulative Score (SC)	9	10	7
Maximum Possible Score (MPS)	45.00	43.00	27.00
W.A.T.E.R. = Cumulative Score/Maximum Possible Score	0.20	0.23	0.26



EVERGLADES
MITIGATION BANK

April 23, 2025

City of Hollywood
P.O. Box 229045
Hollywood, FL 33022
Attn: George R. Keller, Jr.

**Re: Everglades Mitigation Bank Credit Reservation:
Anticipated Permit from Army Corps of Engineers, Application No.
SAJ-2024-00126; and Broward County Environmental Protection and
Growth Management Department, Application No. DF24-1003**

Please be advised that the Everglades Mitigation Bank (the “EMB”) has reserved 0.03 Joint Saltwater mitigation credits necessary to offset the unavoidable wetland impact for the above referenced project. Phase I of the EMB has a signed Mitigation Banking Instrument acknowledged by both FDEP and USACE and sufficient credits are currently available on the EMB ledger to offset the proposed impacts. **The EMB acknowledges receiving payment in full for the above referenced credits.**

Please contact me at 561-691-7060 for any additional information or questions regarding this matter.

Regards,

Brian Yates
Everglades Mitigation Bank

Sec. 27-14. Administrative review of RED determinations.

- (a) A person with a substantial interest may file a petition to request review of or to intervene in a review of a final administrative determination made pursuant to this chapter concerning:
- (1) The requirement that a facility or activity obtain a license or environmental review approval.
 - (2) Interpretations of license or environmental review approval conditions.
 - (3) Interpretations of variance conditions.
 - (4) The decision to suspend or revoke a license or environmental review approval.
 - (5) The requirement of certain license conditions.
 - (6) The issuance of a license or environmental review approval.
 - (7) The denial of a license or environmental review approval.
 - (8) The scope of a license or environmental review approval, geographic or otherwise.
 - (9) The scope of a variance, geographic or otherwise.
 - (10) The issuance of a stop work order.
 - (11) Similar final administrative determinations.

This administrative review procedure shall be the only means of review available for the above final administrative determinations by either the petitioner or the intervenor (the parties).

- (b) person may not obtain review by this procedure of:
- (1) The issuance or adjudication of or other matters involving a notice of violation or a citation.
 - (2) Internal policy decisions
- (c) A person desiring a review of a staff determination made pursuant to this Chapter shall first bring the determination to the attention of the appropriate section supervisor to attempt to resolve the matter. If a resolution cannot be reached, then the decision shall be reviewed by successive supervisory levels until the issue is resolved or reaches the level of the director or his or her designee for the final determination.
- (d) A person desiring administrative review of a final determination made by the director or the designee shall file a petition with the director for review by the hearing examiner. The petition shall be filed within ten (10) days from the rendition of the action taken or of the decision made by the director. An entity whose license or approval is being challenged shall be a party to the action.
- (e) The review shall not be heard until the provisions of subsection (f) are met. Upon motion to the hearing examiner, an insufficient petition shall be dismissed with or without leave to refile. If a petition is determined to be insufficient by the hearing examiner and the petitioner has been given leave to refile by the hearing examiner, unless otherwise ordered by the hearing examiner, the petitioner must refile within ten (10) days of the rendition of the order of dismissal or the petition will be dismissed with prejudice.

- (f) A sufficient petition for review or petition for intervention in the review shall, at a minimum, contain the following information:
- (1) The nature of the determination sought to be reviewed.
 - (2) A short, plain statement of the facts which form the subject matter upon which the determination was made as asserted by all parties of record at the time that the petition is filed; a statement of the material facts in dispute, if any. If any party is unable to state the matters in sufficient detail at the time initial petition is filed, the petition may be limited to a statement of the issues involved; and thereafter, upon timely written motion, a more definite and detailed statement shall be furnished not less than seven (7) days prior to the date set for the hearing.
 - (3) The specific determination for which the review is sought.
 - (4) The specific legal grounds upon which the parties seek review of the determination.
 - (5) A short statement of the petitioner's or the intervenor's substantial interest in the matter to be reviewed.
 - (6) The specific section of this chapter on which the decision is based, if known, and the specific section that the parties allege should control the decision, if known.
 - (7) A copy of the director's or the designee's written final determination.
 - (8) A statement of the relief requested stating precisely the action that the petitioner wants RED to take with respect to the final determination.
- (g) All pleadings or other documents filed in the proceeding must be signed by a party, the party's attorney, or the party's qualified representative. The signature of a party, the party's attorney or a party's qualified representative constitutes a certificate that he or she has read the pleading or other document and that to the best of his or her knowledge, information, and belief formed after reasonable inquiry, it is not brought for any improper purposes, such as to harass or to cause unnecessary delay or for frivolous purpose or needless increase in the cost of litigation. If a pleading or other document is signed in violation of these requirements, the hearing examiner, upon motion or his or her own initiative, shall dismiss the matter.
- (h) A petitioner or intervenor may request an emergency hearing to stay all activities or work conducted pursuant to the challenged license or approval. Such petitioner or intervenor has the burden of proof to show by a preponderance of the evidence that the continued activities would cause substantial pollution or degradation to the environment. An emergency hearing shall be scheduled by RED and be held within five (5) days of said request or as soon thereafter as possible subject to the availability of the hearing examiner. The petitioner or intervenor shall comply with the notice provisions of section 27-14(j)(2)a. and c. and section 27-14(j)(3) and (4) of this chapter.
- (i) The petition for review will not stay environmental protection activities required for the remediation or mitigation of a site or facility, the protection of the environment or the health, safety and welfare of the citizens of Broward County, or the prevention of further environmental degradation. The person responsible for these activities must take all necessary steps to prevent environmental degradation and must conduct the remediation or mitigation activities required by this chapter. The director may allow these activities to be delayed until after the hearing examiner's decision by certifying to

the hearing examiner that, by reason of facts stated in the certificate, a delay in the initiation or completion of these activities would not cause substantial environmental degradation or peril to life or property. The delay for conducting these activities may be subject to appropriate terms to ensure protection of the environment. The person responsible for these activities shall be responsible for any environmental damage or any violation of this chapter caused by the delay.

(j) Notice and Scheduling Requirements:

(1) The hearing on the review shall be scheduled within a reasonable time. It shall be the responsibility of the petitioner to request through RED that the hearing date be scheduled. It shall also be the responsibility of the petitioner to give notice in accordance with this section at least ten (10) days prior to the hearing.

(2) The petitioner shall give notice of the hearing by:

- a. Giving personal notice to all proper parties; and
- b. Publishing notice on two (2) days in a newspaper of general circulation in the county; and
- c. Posting notice at a location determined by the Broward County Administrator's Office.

(3) The petitioner shall bear the cost of giving notice.

(4) The notice shall contain, at a minimum:

- a. A description and location of the facility or the activity to be conducted by the petitioner; and
- b. The time and place of the hearing.

(k) The petitioner shall bear the cost of accurately and completely preserving all testimony and providing full or partial transcripts to all parties.

(l) The hearing shall be a quasi-judicial hearing.

(1) The applicant/petitioner requesting the administrative review, any intervenor/petitioner and RED shall have an opportunity to respond to and to present witnesses, other evidence and argument on all issues involved, to conduct cross-examination and submit rebuttal evidence, to submit proposed findings of facts and orders, and to be represented by counsel. Members of the general public who are not intervenors as set forth in Section 27-14 of this chapter are not parties to the proceeding.

(2) When appropriate, the general public may be given an opportunity to present oral or written communications. If the hearing examiner proposes to consider such material, then all parties shall be given an opportunity to cross-examine, challenge or rebut it.

(m) Denial, protest of, revocation, or suspension of a license, environmental review approval, or any other approval:

(1) In regard to denial or protest of approval of a license and any other review of an administrative decision, notwithstanding (2) below, the petitioner shall have the burden of showing, by a preponderance of the evidence, that the determination of the director was an arbitrary and/or capricious abuse of discretion, not supported by competent, substantial evidence or not in conformance with the

essential requirements of this chapter. The hearing examiner shall not substitute his or her judgment for that of RED on an issue of discretion even though the hearing examiner may have reached a different conclusion based on the same facts.

- (2) In an action to revoke or suspend a valid license or approval, the burden shall be upon RED to prove, by a preponderance of the evidence in an administrative hearing, the grounds for revocation or suspension. The license holder or approval recipient shall be provided notice of the hearing and a copy of the petition stating the grounds for revocation or suspension as provided in section 27-63 of this chapter. The petition shall state with specificity the acts complained of in order to allow the license holder or approval recipient an opportunity to prepare a defense. The hearing shall be conducted in accordance with the provisions of Section 27-37 of this chapter.
- (n) Findings of fact shall be based exclusively on the evidence of record and on matters officially recognized.
- (o) If the hearing examiner finds that the director or his or her designee has erroneously interpreted a provision and that a correct interpretation compels a particular action, he or she shall remand the case to the director or his or her designee for further action under a correct interpretation of the provision.
- (p) The hearing examiner shall complete and submit to the director and all parties a final order consisting of his or her findings of fact and conclusions of law.
- (q) A party to the hearing may obtain appellate review of the final order as provided by section 27-42 of this chapter.
- (r) A petitioner or intervenor shall pay a filing fee at the time the application for review is filed. The amount of the filing fee shall be set by resolution of the Board.

(Ord. No. 2003-34, § 1, 9-23-03; Ord. No. 2005-08, § 2.03, 4-26-05)
Secs. 27-15--27-19. Reserved.

STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at ImperiledSpecies@myFWC.com
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used (see MyFWC.com/manatee). One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 1/2" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. Questions concerning these signs can be sent to the email address listed above.

CAUTION: MANATEE HABITAT

All project vessels

IDLE SPEED / NO WAKE

When a manatee is within 50 feet of work
all in-water activities must

SHUT DOWN

Report any collision with or injury to a manatee:

Wildlife Alert:

1-888-404-FWCC(3922)

cell *FWC or #FWC

