

Florida Department of Environmental Protection

Southeast District Office 3301 Gun Club Road, MSC 7210-1 West Palm Beach, Florida 33406 561-681-6600 Rick Scott Governor

Carlos Lopez-Cantera Lt. Governor

> Noah Valenstein Secretary

Project Name:

Legion Park

Permittee:

City of Miami % Daniel Alfonso, City Manager 3500 Pan American Way Miami, FL 33133

Email: Citymanager@miamigov.com

Authorized Agents:

T.Y. Lin International % Colin Henderson

Email: Colin.henderson@tylin.com

Environmental Resource Permit - Granted

State-owned Submerged Lands Authorization – Not Applicable

U.S. Army Corps of Engineers Authorization – Separate Corps Authorization

Permit No.: 13-0186365-003-EI

Permit Issuance Date: June 26, 2017

Permit Construction Phase Expiration Date: June 26, 2022

Environmental Resource Permit

Permit No.: 13-0186365-003-EI

PROJECT LOCATION

The activities authorized by this Permit are located in Biscayne Bay, within the Biscayne Bay Aquatic Preserve, Outstanding Florida Waters, Class III Waters, adjacent to 6447 NE 7th Avenue, Miami (Sections 25 Township 53 South, Range 42 East), in Miami-Dade County (Latitude N 25° 50' 7.29", Longitude W 80° 10' 49.47").

PROJECT DESCRIPTION

This permit authorizes replacement of the existing 153 sq. ft. dock with a 43 ft. by 6.5 ft. (282 sq. ft.) fixed wooden dock with micro-mesh decking; repairing an existing concrete boat ramp by minor dredging and filling within a 979 sq. ft. area; installation of a 182 ln. ft. retaining wall to be located landward of the existing riprap, mean high water elevation and mangroves; regrading of the existing boat parking area to minimize high tide flooding; and installation of a drainage structure to capture storm water runoff before entering the bay.

This permit authorizes 1,255 ft² of impacts to surface waters. The submerged bottom at the project site consists of sand, rock, and silt; and the shoreline at the project site contains riprap. Although mangroves are present, the applicant has proposed to install the retaining wall landward of the existing riprap and mangroves to avoid impacts. Therefore, the applicant has demonstrated there will be no adverse impacts to wetlands and submerged resources and mitigation is not required.

SURFACE WATER MANAGEMENT SYSTEM

The proposed improvements in this area consist of an independent drainage system to provide water quality treatment and water quantity attenuation for the parking lot via the use of exfiltration trenches. The requisite water quality requirements are summarized in the table below.

Basin	Pervious Area (Ac)	Impervious Area (Ac)	Treatment Method	Volume Required (Ac-ft)	Volume Provided (Ac-ft)
Project Site	0.06	0.54	Exfiltration Trenches	0.113	>0.113

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.).

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 2 of 12

Sovereignty Submerged Lands Authorization

As staff to the Board of Trustees of the Internal Improvement Trust Fund (Board of Trustees), the Department has determined that the activity is located within the boundaries of Deed Nos. 18259, 18259A, 18259A-1, and 18259A-2, and 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 (18-18), F.A.C.

Federal Authorization

Your proposed activity as outlined on your notice and attached drawings does not qualify for Federal authorization pursuant to the State Programmatic General Permit and a separate permit or authorization may be required from the Corps. A copy of your permit application has been forwarded to the Corps for their review. The Corps will issue their authorization directly to you or contact you if additional information is needed. If you have not heard from the Corps within 30 days from the date your application was received at the local FDEP Office, contact the Corps at the Cocoa Beach Regulatory Field Office at (321) 504-3771, for status and further information. Failure to obtain Corps authorization prior to construction could subject you to federal enforcement action by that agency.

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:

- The Specific Conditions
- The General Conditions
- The limits, conditions and locations of work shown in the attached drawings

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 3 of 12

• 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 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 herein.

SPECIFIC CONDITIONS- PROJECT FORMS & ATTACHMENTS

(1) The attached project drawings (sheets 1 through 21); the Standard Manatee Conditions for In-Water Work, 2011, which can be downloaded at can be downloaded at http://myfwc.com/media/415448/Manatee_StdCondIn_waterWork.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 the Department at (561) 681-6600 to request the aforementioned forms and/or document(s).

SPECIFIC CONDITIONS - PRIOR TO CONSTRUCTION

- (2) 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 Department. It shall be the responsibility of the permittee to contact the Department's Compliance Assistance Program by phone (561) 681-6600 or via email at SED.ERPcompliance@dep.state.fl.us, to schedule the preconstruction conference.
- (3) 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, 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. The permittee shall be responsible for ensuring that turbidity control devices are inspected daily and maintained in good working order during all phases of construction authorized by this permit until all areas that were disturbed during construction are sufficiently stabilized to prevent turbid discharges.

SPECIFIC CONDITIONS – CONSTRUCTION ACTIVITIES

(4) There shall be no storage or stockpiling of tools and materials (i.e., lumber, pilings, debris), along the shoreline adjacent to waters of the state. All excess lumber, scrap wood, trash, garbage, and any other type of debris shall be removed from wetlands/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 via upland roadways and barges and all equipment/tools and materials shall be stored on the uplands.

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 4 of 12

- (5) All watercraft associated with the construction of the permitted activities shall only operate within waters of sufficient depth (one-foot clearance from the deepest draft of the vessel to the submerged bottom) so as to preclude bottom scouring or prop dredging.
- (6) All wooden pilings used in construction of the dock shall be wrapped with an impervious membrane one-foot above the mean high water line to one-foot below the substrate.
- (7) Dredging shall be conducted from a shallow draft barge with a fully loaded draft of no more than 36-inches. The material shall be mechanically dredged and deposited directly into a fully-lined barge with containment rails to hold the spoil and prevent return water from entering surface waters. Return water shall not be discharged into the adjacent waters and all spoil materials shall be placed on the uplands in water tight trucks for final disposal at an approved upland location. The spoil containment areas shall be constructed to contain all off loaded spoil material and prevent the escape of dredged material and associated effluent into surface waters.
- (8) 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.
- (9) Dredging shall be limited to day light; no dredging or dewatering activities are authorized to be conducted at night, as turbidity plumes are not visible at night.
- (10) If a floating pipeline is utilized to transport the dredged material, then it shall be inspected twice daily by the selected contractor in order to ensure there are no leaks discharging material into surface waters of the State. At the first sign of any leaks, the permittee shall immediately contact the Department and cease all operations until repairs have been made.
- (11) No dredging or filling of submerged grassbeds or live bottom communities is authorized by this permit.
- (12) The surface water management system shall be constructed and operated as depicted in the attached drawings.

SPECIFIC CONDITIONS – OPERATION AND MAINTENANCE ACTIVITIES

(13) The City of Miami shall be responsible for the operation and maintenance of the stormwater management system. The drainage structures and features shall be routinely inspected to ensure adequate performance.

SPECIFIC CONDITIONS – MONITORING/REPORTING REQUIREMENTS

- (14) Turbidity levels outside the construction area shall not exceed 0 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 ambient turbidity levels of the surrounding Outstanding Florida Waters:
 - a) Notify the Department at (561) 681-6600 or <u>SED.ERPcompliance@dep.state.fl.us</u> at the time the violation is first detected.
 - b) Immediately cease all work contributing to the water quality violation.

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 5 of 12

- 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 background levels.
- (15) 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 until turbidity subsides at 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.)
- (16) During dock and dredging construction activities, the permittee or permittee's contractor shall collect the following turbidity monitoring data at the frequency and water depths directed by the Specific Condition above:
 - 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 Assistance Program via email at SED.ERPcompliance@dep.state.fl.us. The subject line of the email shall include the project name, permit number, and the title "Turbidity Monitoring Reports."

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

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 6 of 12

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

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 7 of 12

- 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 any prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area,

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 8 of 12

work involving subsurface disturbance in the immediate vicinity of such discoveries shall cease. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance and Review Section, at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Such subsurface work shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and notification shall be provided in accordance with Section 872.05, F.S.

- (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.

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.

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

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 9 of 12

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.

<u>Time Period for Filing a Petition</u>

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 sections 373.114(1)(a) or 373.4275, Florida Statutes, may also seek appellate review of this order before the Land and Water Adjudicatory

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 10 of 12

Commission under section 373.114(1) or 373.4275, Florida Statutes. 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.

Any Party to this Order has the right to seek judicial review of the Order Pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of the Appellate Procedure, with the clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 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 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 Palm Beach County, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Diane Pupa

Program Administrator

Permitting and Waste Cleanup

Southeast District

Attachments:

Project Drawings and Design Specs., 21 pages

Standard Manatee Conditions for In-Water Work, 2011, can be downloaded at

http://myfwc.com/media/415448/Manatee StdCondIn waterWork.pdf

As-built Certification and Request for Conversion to Operational Phase Form 62-330.310(1)*

Request for Transfer to the Perpetual Operation Entity Form 62-330.310(2)*

Request to Transfer Permit Form 62-330.340(1)*

Commencement Notice Form 62-330.350(1)*

*Can be downloaded at: http://www.dep.state.fl.us/water/wetlands/erp/forms.htm

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 11 of 12

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit and all copies were sent on the filing date below to the following listed persons:

FDEP – Diane Pupa, Monica Sovacool, Indar Jagnarine, Danielle Sattelberger, Steven Fazekas, Eric Buck

Rosalinda Rodriguez, USACOE- Miami-Dade, <u>Rosalinda.Rodriguez@usace.army.mil</u> Lisa Spadafina, Miami-Dade County RER, <u>spadaL2@miamidade.gov</u> T.Y. Lin International, Colin Henderson, <u>Colin.henderson@tylin.com</u>

FILING AND ACKNOWLEDGMENT

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

Hatel June 26, 2017

Clerk Date

Project Name: Legion Park Permit No.: 13-0186365-003-EI

Page 12 of 12

Commission:

Mayor

Tomas P. Regalado

Chairman / D1 Commissioner

Wifredo (Willy) Gort

Chairman / D5 Commissioner

Keon Hardemon

D2 Commissioner

Ken Russell

D3 Commissioner

Frank Carollo

D4 Commissioner

Francis Suarez

City Manager

Daniel J. Alfonso

INDEX OF SHEETS

INDLX	OT STILLTS
SHEET NO.	DESCRIPTION
G-1	COVER SHEET
G-2	BOUNDARY AND TOPOGRAPHIC SURVEY PAGE 1 OF 2
G-3	BOUNDARY AND TOPOGRAPHIC SURVEY PAGE 2 OF 2
G-4 & G-5	GENERAL NOTES
G-6	DEMOLITION PLAN
G-7	SITE PLAN
G-8	PAVING, GRADING & DRAINAGE
G-9	CONCRETE BOAT RAMP PROFILE
G-10	HARDSCAPE
G-11	FENCE AND GATE DETAILS
G-12	CIVIL DETAILS
G-13	DRAINAGE DETAILS
G-14	MICRO-MESH INSTALLATION DETAIL
G-15	TURBIDITY CONTROL
G-16	SIGNS
S-1	STRUCTURAL GENERAL NOTES & ABBREVIATIONS
5-2	CROSS SECTION
S-3	CROSS SECTION
S-4	WOOD DECK FRAMING PLAN & FIXED DOCK CROSS SECTION
S-5	SEAWALL DETAILS
S-6	CONCRETE SHEET PILE
L-1	LIGHTING PLAN

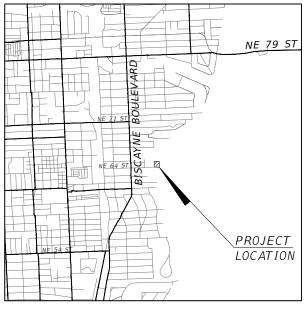
CITY OF MIAMI

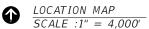
CAPITAL IMPROVEMENTS PROGRAM

JEOVANNY RODRIGUEZ, P.E., DIRECTOR

LEGION PARK SEAWALL & BOAT RAMP PROJECT No. B-40510

> PERMIT PLANS MARCH 15, 2017





RYMENT (I) W **Permit Number** 13-0186365-003-EI _T·Y·LIN_INTERNATIONAL Southeast District E SUITE 90 CORAL GABLES, FLORIDA 33134 PHONE: (305) 567-1888 FAX: (305) 567-1771 EB00002017 PROTE

GOVERNING STANDARDS AND SPECIFICATIONS:

- FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2014, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2014, AS AMENDED BY CONTRACT
- CITY OF MIAMI ENGINEERING STANDARDS FOR DESIGN AND CONSTRUCTION DATED DECEMBER 2010
- MIAMI 21 CODE DATED MAY 2010.



ROADWAY PLANS ENGINEER OF RECORD: FRANCISCO J. ALONSO, P.E. 66918 STRUCTURAL PLANS ENGINEER OF RECORD: ALEJANDRO SALAS P.E. NO.: 74789 ELECTRICAL PLANS ENGINEER OF RECORD: ENRIQUE JR. SOSA, P.E.

SHEET

G-1

Filename:T:\Miami\Projects\551191.12\600_CADD\30_working\REV1\COVER SHEET - Plot Date:6.7.20

P.E. NO.:

- GENERAL NOTES ON THE PROJECT PLANS AND DRAWINGS ARE SOLELY TO AID AND ASSIST THE CONTRACTOR WITH THE FIELD OPERATIONS FOR THE PROJECT. SAID GENERAL NOTES MAY NOT FULLY DESCRIBE ALL OF THE REQUIREMENTS FOR AN ITEM. THEREFORE, THE CONTRACTOR SHALL READ AND VERIFY THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO THE PLANS, SPECIFICATIONS, GENERAL TERMS AND CONDITIONS. AND THE SUPPLEMENTAL TERMS AND CONDITIONS. TO FULLY UNDERSTAND AND COMPLY WITH ALL THE REQUIREMENTS THEREIN.
- THE CONTRACTOR MUST HAND EXCAVATE AROUND AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE EXPECTED OR SUSPECTED IN ORDER TO AVOID DAMAGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AND COSTS TO CORRECT DAMAGES RESULTING FROM FAILURE TO TAKE ALL NECESSARY PRECAUTIONS INCLUDING LOCATING. MARKING AND CAREFUL EXCAVATION. AND SHOULD BE INCIDENTAL TO THE COST OF THE PROJECT
- IT IS THE OBLIGATION OF THE BIDDER OR THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION AND SATISFY HIMSELF FULLY OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS BID. FAILURE TO DO SO, WILL NOT RELIEVE HIM OF HIS OBLIGATION TO COMPLETE THE WORK FULLY AND ACCEPTABLE TO THE ENGINEER AND THE OWNER FOR THE CONSIDERATION SET FORTH IN HIS BID.
- CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM PRINTS FOR CONSTRUCTION PURPOSES.
- ALL DISTURBED GRASS AREAS SHALL BE RESTORED WITH SUITABLE SOIL AND SOLID ST AUGUSTINE SOD IF NOT SPECIFIED OTHERWISE ON THE PLANS.
- IT IS THE INTENT OF THESE PLANS TO BE IN COMPLIANCE WITH APPLICABLE CODES OF AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE **ENGINEER**
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, UTILITIES AND UTILITY MARKERS, WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURES, PAVEMENT, TREES, UTILITIES, UTILITY MARKERS OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER
- ANY DISCREPANCIES IN THESE DRAWINGS WITH THE FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER, CONSTRUCTION SHALL NOT CONTINUE UNTIL ENGINEER ADDRESSES THE DISCREPANCIES.

CONSTRUCTION NOTES

- 1. ALL WORK TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF AND ACCEPTABLE TO CITY OF MIAMI PUBLIC WORKS DEPARTMENT AND MIAMI-DADE COUNTY R.E.R.
- CONTRACTOR SHALL PROVIDE HIS OWN LINE AND GRADE FROM HORIZONTAL AND VERTICAL CONTROL. CONTRACTOR SHALL ALSO PROVIDE "AS BUILT" GRADES CERTIFIED BY A REGISTERED LAND SURVEYOR AS REQUIRED BY THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT.
- 3. BID PRICES SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS COMPLETE IN PLACE, TESTED, AND ACCEPTED BY THE ENGINEER.
- 4. THE CONTRACTOR SHALL USE SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING INLETS AND CULVERTS CLEAN OF DEBRIS AND ANY OTHER MATERIALS USED DURING CONSTRUCTION. THIS SHALL BE DONE DURING THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ALL EXISTING LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
- 6. CONTRACTOR SHALL CONTACT SUNSHINE AT (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES.
- 7. ALL TREES TO BE RELOCATED OUTSIDE OF CONSTRUCTION AREA WHERE FEASIBLE. UNAVOIDABLE IMPACT TO MANGROVE TREES ARE TO BE MITIGATED IN ACCORDANCE TO APPROVED PERMITS.
- 8. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN PROJECT SPECIFICATION (WHERE APPLICABLE).
- 9. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
- 10. ALL EXISTING DRAINAGE STRUCTURES AND PIPES ARE TO REMAIN AND TO BE PROTECTED UNLESS OTHERWISE SPECIFIED AND APPROVED.
- 11. CONTRACTOR SHALL IMPLEMENT AND ENFORCE ALL NPDES EROSION AND SEDIMENT CONTROL RULES AND REGULATIONS.
- 12. CONTRACT SHALL INCLUDE IN THE BID PRICE FOR CLEARING AND GRUBBING.

REVISIONS

DESCRIPTION

SURVEY NOTES

DATE BY

SURVEY INFORMATION PROVIDED BY THE CITY OF MIAMI AND PREPARED BY HADONNE LAND SURVEYORS AND MAPPERS PREPARED ON 05/05/2016. EXISTING ELEVATIONS SHOWN ARE BASED ON CITY OF MIAMI DATUM, MIAMI DADE COUNTY BENCHMARK "E-243" WAS USED AND ITS ELEVATION WAS CONVERTED BY ADDING 0.26'. BM ELEVATION 11.76 (NGVD 29) +0.26' = 12.02 (CITY OF MIAMI DATUM).

EOR

GEOTECHNICAL INFORMATION PROVIDED BY NV5 ON THEIR REPORT DATED DECEMBER 1, 2016

ENVIRONMENTAL NOTES

- 1. ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL
- 2. THE CONTRACTOR SHALL REVIEW ENVIRONMENTAL REQUIREMENTS OF ANY PROPOSED STAGING AREAS WITH THE PROJECT ENGINEER AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO USE.
- 3. NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT WILL BE ALLOWED WITHIN ENVIRONMENTALLY SENSITIVE AREAS.
- 4. CONTRACTOR SHALL NOT STAGE OR OPERATE EQUIPMENT WITHIN THE DRIPLINE OF TREES.
- 5. CONTRACTOR TO PROVIDE A CERTIFIED ARBORIST WHO WILL DETERMINE ANY ROOT PRUNING AND ANY OTHER TRIMMING ACTIVITIES. COST TO BE INCIDENTAL TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

STRUCTURAL NOTES

- 1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FDOT 2015 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 2. DESIGN SHALL BE IN ACCORDANCE WITH THE FDOT STRUCTURES MANUAL JANUARY 2015, AND SUBSEQUENT STRUCTURES DESIGN BULLETINS, THE FDOT STRUCTURAL DESIGN STANDARD INDEXES/DRAWINGS, 2015, AS AMENDED BY CONTRACT DOCUMENTS, AND ALL SUBSEQUENT INTERIMS
- 3. VERTICAL DATUM IS CITY OF MIAMI DATUM.
- 4. ENVIRONMENT IS CLASSIFIED AS EXTREMELY AGGRESSIVE
- 5.1. BULKHEADS REINFORCED C.I.P. CONCRETE CAP. CONCRETE (CASS V(SPECIAL) f'c = 6,000psi, MITH SILISA FUME, METAKAOLIN, OR ULTRA FINE FLY ASH.
- 6. CONCRETE COVER 3" CLEAR COVER, COVER DOES NOT INCLUDE TOLERANCES. REFER TO FDOT SPECIFICATION 415 FOR ALLOWABLE TOLERANCES.
- 7. PLAN DIMENSIONS ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN PEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.
- 8.1. LOCATIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE UNITABLE ION BEGINS. 8.2. FOR STORM DRAINS AND OTHER UTIL™LES, F∮LLOW GENERAL NOTES ON PROCEDURES INVOLVING EXISTING UTILITIES.
- 9. JOINTS IN CONCRETE: CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS INDICATED IN THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL BOURT STEET A SOFTHE SEN INTER.
- 10. CUT AND FILL OPERATIONS 10.1. THE CONTRACTOR SHALL NOT FY ADJACENT OWNERS AND INVOLVED UTILITIES IN WRITING TWO (2) WEEKS BEFORE XCAVATION OPERATIONS BEGIN.
 - . SHOWN IN THESE PLANS AS ON THE COMPANY OF THE 10.2. QUANTITIES FOR CUT AND FILE CONTRACT DR BEFORE BIDDING.
 - 10.3. ANY EXCAVATED MATERIAL THAT IS DEEMED BY THE ENGINEER UNSUITABLE FOR FILLING SHALL BE PROPERLY, DISPOSED OF BY THE CONTRACTOR AT AN APPROVED FACILITY OR DUMP SITE THE COST FOR DISPOSAL OF UNSUITABLE MATERIAL SHALL BE INCLUDED IN THE COST OF CUT AND FILL.

MICRO-MESH NOTES:

- 1. CONTRACTOR SHALL INSTALL GRATINGS IN ACCORDANCE WITH MANUFACTURER'S ASSEMBLY DRAWINGS. PANELS ARE TO BE SUPPORTED WITH GRATING LEGS IN EACH CORNER OR OTHER FOUN ALENT SUPPORT MECHANISM. LOCK GRATING PANELS SECURELY IN PLACE WITH HOLD_DOWN FASTENERS OR AS SPECIFIED HEREIN. FIELD CUT AND DRILL FIBERGLASS BEINFORCED PLASTIC PRODUCTS WITH CARBIDE OR DIAMOND TIPPED BITS AND BLADES. SEAL CUT OR BRILLED SURFACES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN CUTTING OR DRILLING FIBERGLASS PRODUCTS OR USING REGIN PRODUCTS; PROVIDE ADEQUATE VENTILATION.
- HOLD DOWN CLIPS: GRATINGS MUST BE MECHANICALLY FASTENED IN PLACE TO PREVENT SLIDING EACH GRATING PANEL SHOULD BE FASTENED TO EACH SUPPORTING WOOD STRINGER/STRUCTURE USING A MINIMUM OF FOUR "M" STYLE HOLD DOWN CLIPS. FOR LARGER PANELS, 6 TO 8 HOLD DOWN CLIPS ARE RECOMMENDED.

UTILITY COMPANY CONTACT LIST:

COMCAST CABLE FLORIDA POWER AND LIGHT-DADE DADE COUNTY PUBLIC WORKS AND TRAFFIC TECO PEOPLES GAS SOUTH FLORIDA MIAMI-DADE WATER AND SEWER AT&T DISTRIBUTION

PROJECT NAME

6447 NE 7th Ave. Miami, FL 33138

CITY OF MIAMI

CAPITAL IMPROVEMENTS PROGRAM

MARIO ESCALONA OCTAVIO VIDAL ALEX ROCHE MARIA CAPOTE STEVE LOW

PROJECT No.

LEONARD MAXWELL-NEWBOLD

305-219-9143 305-412-0891 786-268-5329

MARIO.ESCALONA@FPL.COM LPRIDEMORE@HTLOCATING.COM 954-453-0824 ARROCHE@TECOENERGY.COM MARIA.CAPOTE@MIAMIDADE.GOV

305-951-7669 LEONARD MAXWELL-NEWBOLD@CABLE.COMCAST.COM

305-222-8745 SL4504@ATT.COM

GENERAL NOTES

NO. G-4

SHEET

Francisco J. Alonso, P.E. No. 66918 T-Y-LIN INTERNATIONAL (305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRA 444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 LEGION PARK SEAWALL & BOAT RAMP

Filename:T:\Miami\Projects\551191.12\600_CADD\30_working\REV1\GENERAL NOTES - Plot Date:6.7.20:

1.01 WORK INCLUDED

THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND APPURTENANCES NECESSARY FOR INSTALLATION OF THE WELDED ORNAMENTAL STEEL FENCE SYSTEM DEFINED HEREIN AT LEGION PARK BOAT RAMP

EARTHWORK - POST FOOTINGS SHALL BE 4XPOST WIDTH DIAMETER X 36"DEEP. SOIL AT EXCAVATION SHALL BE THOROUGHLY COMPACTED. CARE SHALL BE TAKEN TO INSURE PROPER ALIGNMENT AND PLUM INSTALLATION. WASTE MATERIAL FROM EXCAVATION SHALL BE SPREAD AS DIRECTED ON SITE, OR REMOVED AS DIRECTED BY THE OWNER.

CONCRETE - POST SHALL BE SET IN 3000 PSI CONCRETE. ALL POST WILL BE SET IN CONCRETE FOOTINGS WITH ALLOWANCE FOR A MINIMUM OF 6" OF CONCRETE BETWEEN BOTTOM OF POST AND BOTTOM OF CONCRETE FOOTING. ALL FOOTING SHALL EXTEND 2" ABOVE FINISHED GRADE AND SHALL BE CROWNED TO SHED WATER. SPATTERED CONCRETE WILL BE REMOVED FROM ALL FENCE MATERIAL. 1.03 SYSTEM DESCRIPTION

THE MANUFACTURER SHALL SUPPLY A TOTAL FENCE SYSTEM OF MONTAGE® STANDARD PICKET SPACE WELDED AND RACKABLE OR APPROVED EQUAL (ATF - ALL TERRAIN FLEXIBILITY) ORNAMENTAL STEEL CLASSIC™ DESIGN OR APPROVED EQUAL). THE SYSTEM SHALL INCLUDE ALL COMPONENTS (I.E., PANELS, POSTS, GATES AND HARDWARE) REQUIRED.

1.04 QUALITY ASSURANCE

THE CONTRACTOR SHALL PROVIDE LABORERS AND SUPERVISORS WHO ARE THOROUGHLY FAMILIAR WITH THE TYPE OF CONSTRUCTION INVOLVED AND MATERIALS AND TECHNIQUES SPECIFIED.

- ASTM A653/A653M STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY COATED (GALVANNEALED) BY THE HOT-DIP PROCESS.
- ASTM B117 PRACTICE FOR OPERATING SALT-SPRAY (FOG) APPARATUS.
- ASTM D523 TEST METHOD FOR SPECULAR GLOSS.
- ASTM D714 TEST METHOD FOR EVALUATING DEGREE OF BLISTERING IN PAINT.
- ASTM D822 PRACTICE FOR CONDUCTING TESTS ON PAINT AND RELATED COATINGS AND MATERIALS USING FILTERED OPEN-FLAME CARBON-ARC LIGHT AND WATER EXPOSURE APPARATUS.
- ASTM D1654 TEST METHOD FOR EVALUATION OF PAINTED OR COATED SPECIMENS SUBJECTED TO CORROSIVE ENVIRONMENTS.
- ASTM D2244 TEST METHOD FOR CALCULATION OF COLOR DIFFERENCES FROM INSTRUMENTALLY MEASURED COLOR COORDINATES.
- ASTM D2794 TEST METHOD FOR RESISTANCE OF ORGANIC COATINGS TO THE EFFECTS OF RAPID DEFORMATION (IMPACT).
- ASTM D3359 TEST METHOD FOR MEASURING ADHESION BY TAPE TEST.
- ASTM F2408 ORNAMENTAL FENCES EMPLOYING GALVANIZED STEEL TUBULAR PICKETS.

1.06 SUBMITTAL

THE MANUFACTURER'S LITERATURE SHALL BE SUBMITTED PRIOR TO INSTALLATION.

1.07 PRODUCT HANDLING AND STORAGE

UPON RECEIPT AT THE JOB SITE, ALL MATERIALS SHALL BE CHECKED TO ENSURE THAT NO DAMAGE OCCURRED DURING SHIPPING OR HANDLING, MATERIALS SHALL BE STORED IN SUCH A MANNER TO ENSURE PROPER VENTILATION AND DRAINAGE, AND TO PROTECT AGAINST DAMAGE, WEATHER, VANDALISM AND THEFT.

1.08 PRODUCT WARRANTY

- A.ALL STRUCTURAL FENCE COMPONENTS (I.E. RAILS, PICKETS, AND POSTS) SHALL BE WARRANTED WITHIN SPECIFIED LIMITATIONS, BY THE MANUFACTURER AS STATED IN THE MONTAGE PRODUCT WARRANTY, WARRANTY SHALL COVER ANY DEFECTS IN MATERIAL FINISH. INCLUDING CRACKING, PEELING, CHIPPING, BLISTERING OR CORRODING.
- B.REIMBURSEMENT FOR LABOR NECESSARY TO RESTORE OR REPLACE COMPONENTS THAT HAVE BEEN FOUND TO BE DEFECTIVE UNDER THE TERMS OF MANUFACTURES WARRANTY SHALL BE GUARANTEED FOR FIVE (5) YEARS FROM DATE OF ORIGINAL PURCHASE.

2.01 MANUFACTURER

THE FENCE SYSTEM SHALL CONFORM TO MONTAGE® STANDARD CLASSIC™ PICKET SPACE WELDED AND RACKABLE BY AMERISTAR PERIMETER SECURITY USA INC. OR APPROVED EQUAL (ATF - ALL TERRAIN FLEXIBILITY) ORNAMENTAL STEEL, DESIGN, EXTENDED PICKET

- A.STEEL MATERIAL FOR FENCE PANELS AND POSTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A653/A653M, WITH A MINIMUM YIELD STRENGTH OF 45,000 PSI (310 MPA) AND A MINIMUM ZINC (HOT-DIP GALVANIZED) COATING WEIGHT OF 0.60 0Z/FT2 (184 G/M2), COATING DESIGNATION G-60.
- B.MATERIAL FOR PICKETS SHALL BE 5/8" SQUARE X 18 GA. TUBING. THE RAILS SHALL BE STEEL CHANNEL, 1.25" X 0.92" X 14 GA. PICKET HOLES IN THE RAIL SHALL BE SPACED (SPECIFY 4.334" O.C. FOR STANDARD PICKET SPACE OR 3.500" O.C. FOR 3" AIR SPACE). FENCE POSTS SHALL BE A MINIMUM OF 2" SQUARE X 16 GA. GATE POSTS SHALL MEET THE MINIMUM REQUIREMENTS OF TABLE 1. 2.03 FABRICATION

A.PICKETS, RAILS AND POSTS SHALL BE PRE-CUT TO SPECIFIED LENGTHS, RAILS SHALL BE PRE-PUNCHED TO ACCEPT PICKETS.

- B.PICKETS SHALL BE INSERTED INTO THE PRE-PUNCHED HOLES IN THE RAILS AND SHALL BE ALIGNED TO STANDARD SPACING USING A SPECIALLY CALIBRATED ALIGNMENT FIXTURE. THE ALIGNED PICKETS AND RAILS SHALL BE JOINED AT EACH PICKET-TO-RAIL INTERSECTION BY AMERISTAR'S PROPRIETARY FUSION WELDING PROCESS, THUS COMPLETING THE RIGID PANEL ASSEMBLY (NOTE: THE PROCESS PRODUCES A VIRTUALLY SEAMLESS, SPATTER-FREE GOOD-NEIGHBOR APPEARANCE, EQUALLY ATTRACTIVE FROM EITHER SIDE
- C. THE MANUFACTURED PANELS AND POSTS SHALL BE SUBJECTED TO AN INLINE ELECTRODE POSITION COATING (E-COAT) PROCESS CONSISTING OF A MULTI-STAGE PRETREATMENT/WASH, FOLLOWED BY A DUPLEX APPLICATION OF AN EPOXY PRIMER AND AN ACRYLIC TOPCOAT. THE MINIMUM CUMULATIVE COATING THICKNESS OF EPOXY AND ACRYLIC SHALL BE 2 MILS (0.058 MM). THE COLOR SHALL BE BLACK. THE COATED PANELS AND POSTS SHALL BE CAPABLE OF MEETING THE PERFORMANCE REQUIREMENTS FOR EACH QUALITY CHARACTERISTIC SHOWN IN TABLE 2 (NOTE: THE REQUIREMENTS IN TABLE 2 MEET OR EXCEED THE COATING PERFORMANCE CRITERIA OF ASTM F2408)

D.THE MANUFACTURED FENCE SYSTEM SHALL BE CAPABLE OF MEETING THE VERTICAL LOAD, HORIZONTAL LOAD, AND INFILL PERFORMANCE REQUIREMENTS FOR RESIDENTIAL WEIGHT FENCES UNDER ASTM F2408.

E.GATES SHALL BE FABRICATED USING WELDED ORNAMENTAL PANEL MATERIAL AND GATE ENDS HAVING A 1-1/4" SQUARE CROSS-SECTIONAL SIZE. ALL RAIL AND UPRIGHT INTERSECTIONS SHALL BE JOINED BY WELDING. ALL PICKET AND RAIL INTERSECTIONS SHALL ALSO BE JOINED BY WELDING.

PART 3 - EXECUTION

3.01 PREPARATION

ALL NEW INSTALLATION SHALL BE LAID OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE CONSTRUCTION PLANS.

3 02 FENCE INSTALLATION

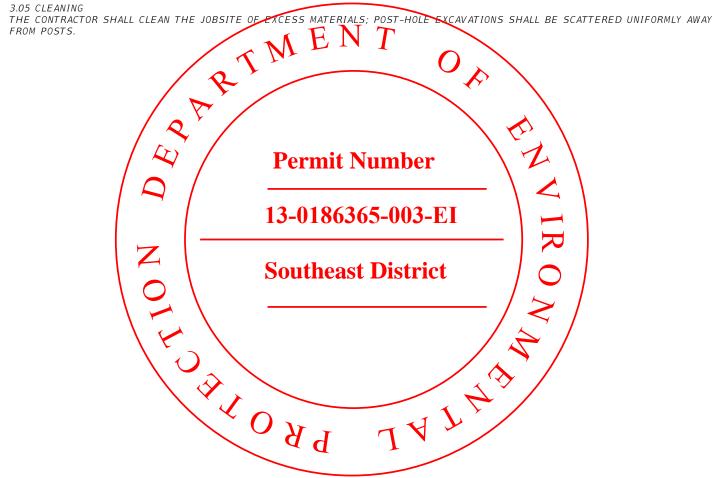
FENCE POST SHALL BE SPACED ACCORDING TO PLANS, PLUS OR MINUS 1/2". FOR INSTALLATIONS THAT MUST BE RAKED TO FOLLOW SLOPING GRADES, THE POST SPACING DIMENSION MUST BE MEASURED ALONG THE GRADE. FENCE PANELS SHALL BE ATTACHED TO POSTS WITH BRACKETS SUPPLIED BY THE MANUFACTURER. THE "EARTHWORK" AND "CONCRETE" SECTIONS OF THIS SPECIFICATION SHALL GOVERN MATERIAL REQUIREMENTS FOR THE CONCRETE FOOTER.

3.03 FENCE INSTALLATION MAINTENANCE

WHEN CUTTING/DRILLING RAILS OR POSTS ADHERE TO THE FOLLOWING STEPS TO SEAL THE EXPOSED STEEL SURFACES; 1) REMOVE ALL METAL SHAVINGS FROM CUT AREA. 2) APPLY ZINC-RICH PRIMER TO THOROUGHLY COVER CUT EDGE AND/OR DRILLED HOLE; LET DRY. 3) APPLY 2 COATS OF CUSTOM FINISH PAINT MATCHING FENCE COLOR. FAILURE TO SEAL EXPOSED SURFACES PER STEPS 1-3 ABOVE WILL NEGATE WARRANTY. AMERISTAR SPRAY CANS OR PAINT PENS SHALL BE USED TO PRIME AND FINISH EXPOSED SURFACES; IT IS RECOMMENDED THAT PAINT PENS BE USED TO PREVENT OVERSPRAY. USE OF NON-AMERISTAR PARTS OR COMPONENTS WILL NEGATE THE MANUFACTURES' WARRANTY.

3.04 GATE INSTALLATION

GATE POSTS SHALL BE SPACED ACCORDING TO THE MANUFACTURERS' GATE DRAWINGS. DEPENDENT ON STANDARD OUT-TO-OUT GATE LEAF DIMENSIONS AND GATE HARDWARE SELECTED. TYPE AND QUANTITY OF GATE HINGES SHALL BE BASED ON THE APPLICATION; WEIGHT, HEIGHT, AND NUMBER OF GATE CYCLES. THE MANUFACTURERS' GATE DRAWINGS SHALL IDENTIFY THE NECESSARY GATE HARDWARE REQUIRED FOR THE APPLICATION. GATE HARDWARE SHALL BE PROVIDED BY THE MANUFACTURER OF THE GATE AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.



		REVISIONS	EOR
DATE	ВҮ	DESCRIPTION]
			Francisco J. Alonso, P.E.
			No. 66918
			T-Y-LIN INTERNATIONA
			I I LIN INTLINATIONA



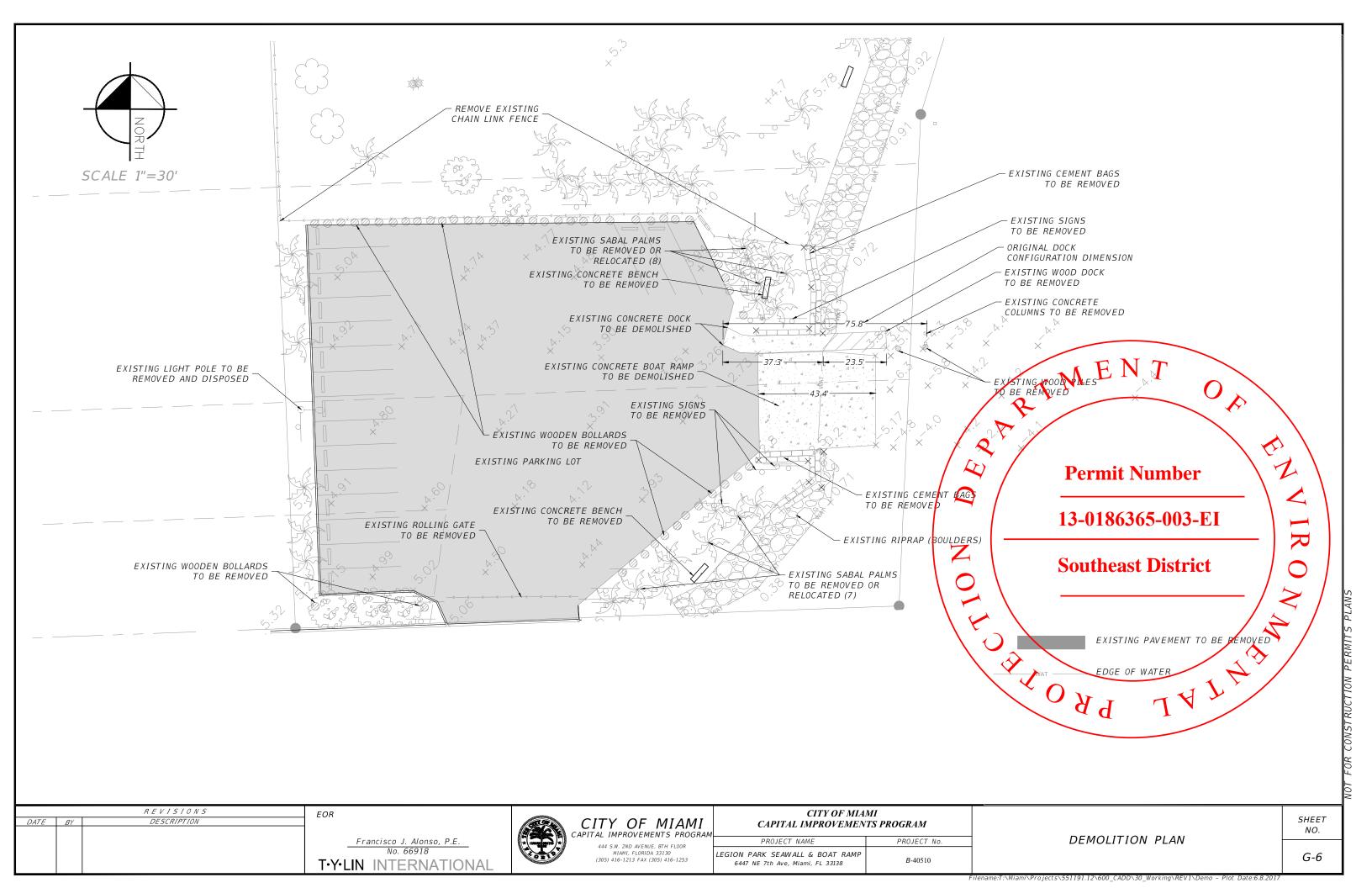
CAPITAL IMPROVEMENTS PROGRAM				
PROJECT NAME	PROJECT No.			
LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138	B-40510			

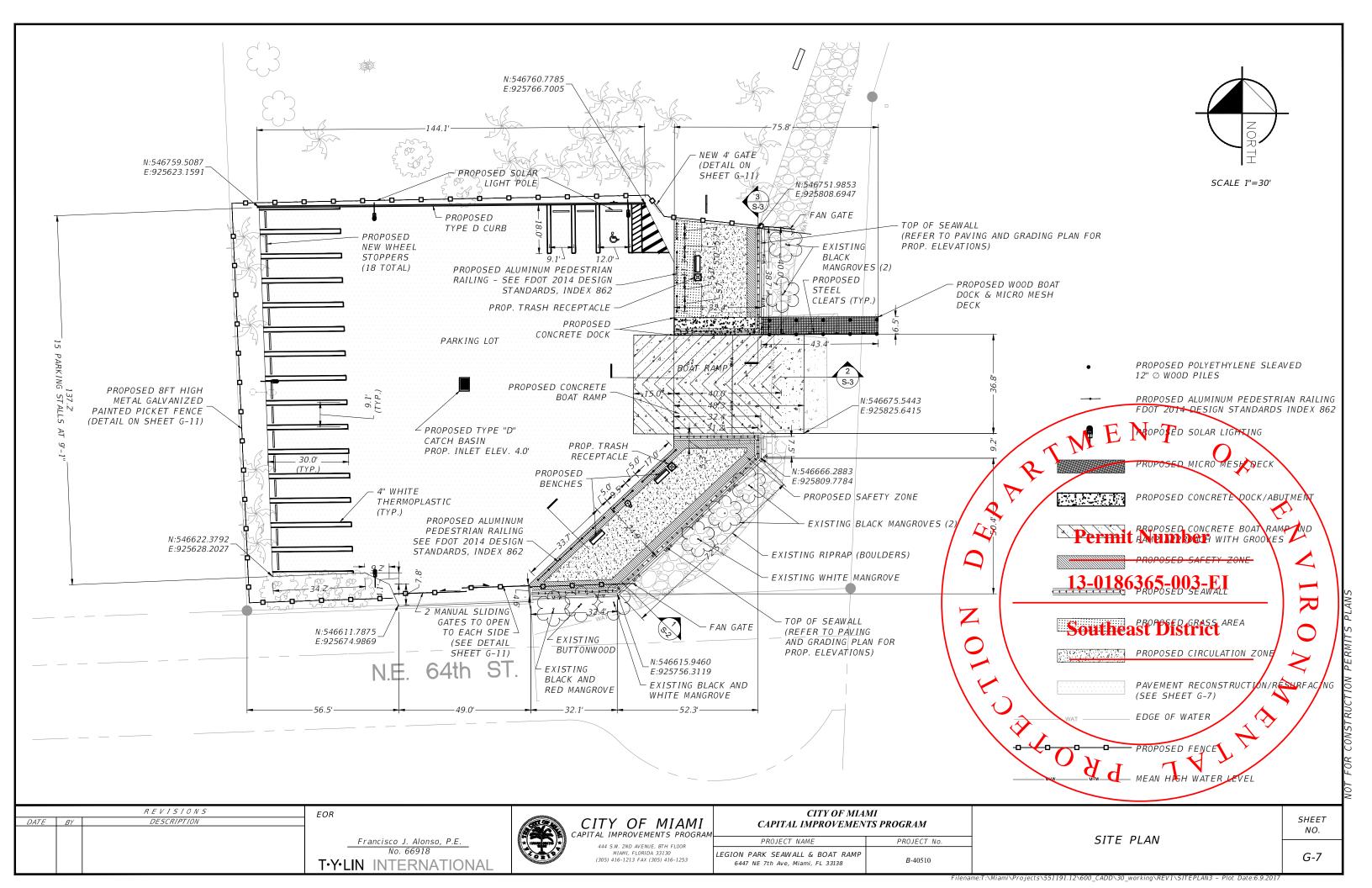
CITY OF MIAMI

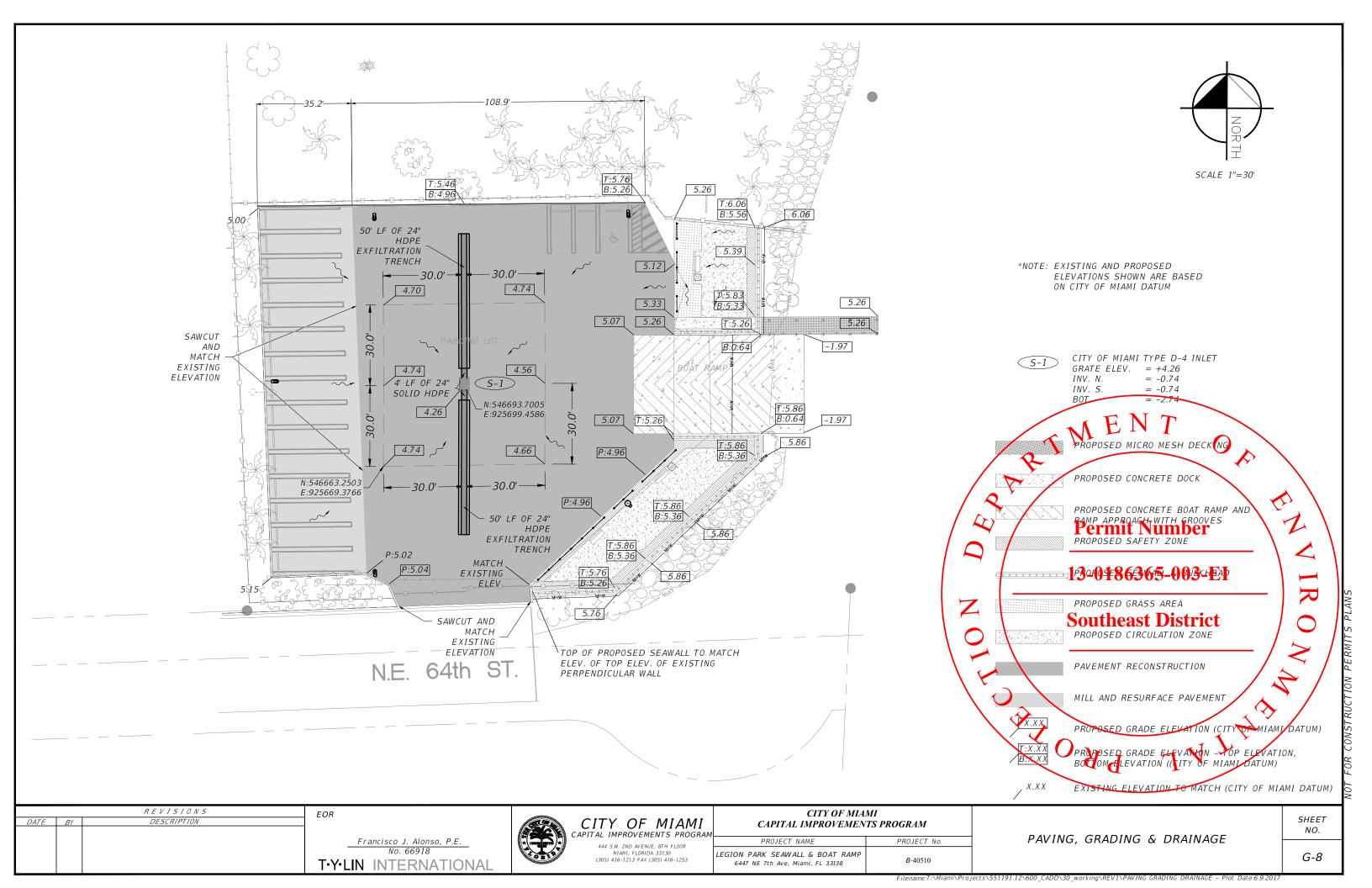
GENERAL NOTES

SHEET NO.

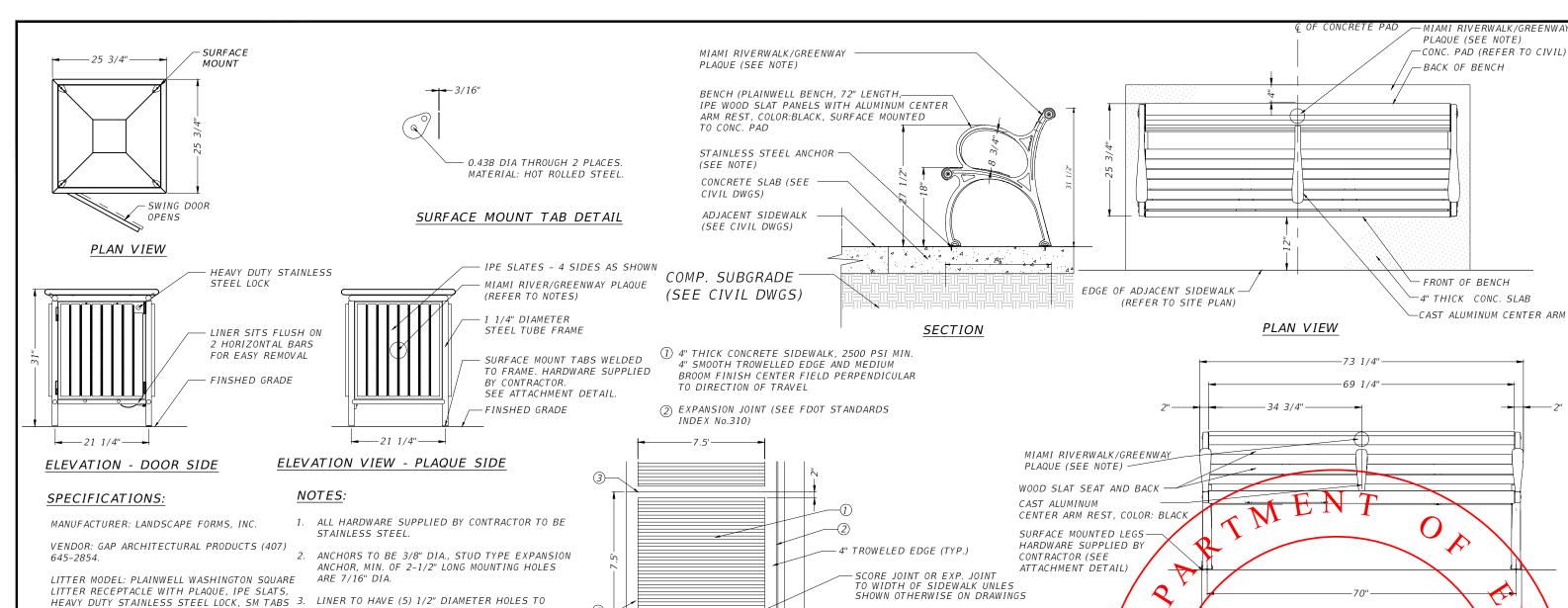
G-4







CONCRETE BOAT RAMP PROFILE 0+00 2+00 1+00 30-MIAMI DATUM) PROPOSED CONCRETE PROPOSED CONCRETE BOAT RAMP 20-LANDING MHW +2.01 10-MLW -0.17 0*F* 0-48.3 EXISTING GRADE -10 ELEVATION (FT. ENT -20-ESTIMATED DEPTH OF LIMESTONE LAYER -30-5.07 5.26 4.26 .19 Permit Number 2. 00+0 1+00 13-0186365-003-EI STATION R SCALE 1' = 20'**Southeast District** PROTEC REVISIONS CITY OF MIAMI EOR SHEET DESCRIPTION CITY OF MIAMI DATE BY CAPITAL IMPROVEMENTS PROGRAM NO. APITAL IMPROVEMENTS PROGRA CONCRETE BOAT RAMP PROFILE Francisco J. Alonso, P.E. PROJECT NAME PROJECT No. 444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253 No. 66918 LEGION PARK SEAWALL & BOAT RAMP G-9 B-40510 T-Y-LIN INTERNATIONAL 6447 NE 7th Ave, Miami, FL 33138



SURFACE MOUNT

STYLE: SIDE OPENING MOUNTING: SURFACE-MOUNTING LINER COLOR: BLACK FINISH: PANGARD II® POLYESTER POWDERCOAT FINISH COLOR: BLACK ANCHORS: STAINLESS STEEL

ALLOW FOR DRAINAGE.

4. CONTRACTOR TO MANUFACTURE AND SUPPLY CITY OF MIAMI PLAQUE AS PER "CITY OF MIAMI DESIGN STANDARDS", CENTER ON PANEL OPPOSITE OF DOOR. PLAQUE INSTALLED BY LANDSCAPE FORMS, INC.

TRASH RECEPTACLE - SURFACE MOUNTED NTS

SAWCUT CONTROL JOINT OR EXPANSION JOINT EVERY 40'-50' O.C. (SEE FDOT STANDARDS INDEX No.310)

4" TROWELLED EDGE AT SIDES AND 2" TROWELLED EDGES WHERE SIDEWALK CONTROL JOINTS OCCUR

CURB TYPE VARIES

TIMES FROM DAMAGE

PROTECT AT ALL

1. THIS DETAIL IS FOR SURFACE TREATMENT ONLY. REFER TO ROADWAY DRAWINGS FOR SPECIFICATIONS OF MATERIALS, ETC.

2. COST OF SIDEWALK FINISH SHALL BE INCLUDED IN UNIT PRICE OF CONCRETE SIDEWALK.

BROOM FINISH CONCRETE PAVING N.T.S.

NOTES:

- 1. PROVIDE SHOP DRAWINGS FOR APPROVAL
- APPLY WHITE CORROSION RESISTANT PAINT HARDWARE AND CABINET

MANUFACTURER:

MANUFACTURER: LANDSCAPE FORMS, INC. LOCAL VENDOR: GAP ARCHITECTURAL PRODUCTS, CONTACT: JESSICA STANLEY, TEL: (954) 366-8271

BENCH - SURFACE MOUNTED NTS

NOTES:

- ALL HARDWARE SUPPLIED BY CONTRACTOR TO BE STAINLESS STEEL.
- 2. INSTALL PER MANUFACTURER'S SPECIFICATIONS
- BENCHES LOCATED IN PAVEMENT SHALL BE BOLTED DIRECTLY TO PAVEMENT.
- 4. EXACT LOCATION OF BENCHES APPROVED IN FIELD BY CLIENT REPRESENTATIVE.

ELEVATION - FRONT VIEW GBNORAS CANONITY OF BRIMS HING NOTES ALL SITE FURNISHINGS SHALL MEET OR EXCEED PARTY

FINISH: PARENTAL TO NETTEN OVER RECOAT

Sourch cays in Disturic (NSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

BIFMA OR INDUSTRY STANDARDS.

3 INSTALL SITE FURNISHINGS WITH TAMPER PROOF PROOF OR SIMILAR AS SPECIFIED BY MANUFACTURER.

4. REFER TO MANUFACTURER'S PRODUCT SPECIFICATIONS ALL MATERIAL SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.

ALL SITE FURNISHINGS TO BE FIELD LOCATED.

REVIEW CUT SHEETS FOR ALL S FURNISHINGS PRIOR TO INSTALLATION. CUT SHEETS TO WELUDE INSTALLATION NETHODS OF ATTACHMENT TO CONCRETE SURFACE

		REVISIONS	EOR
DATE	BY	DESCRIPTION	
			Francisco J. Alonso, P.E
			No. 66918
			T-Y-LIN INTERNATIONAL



CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRA

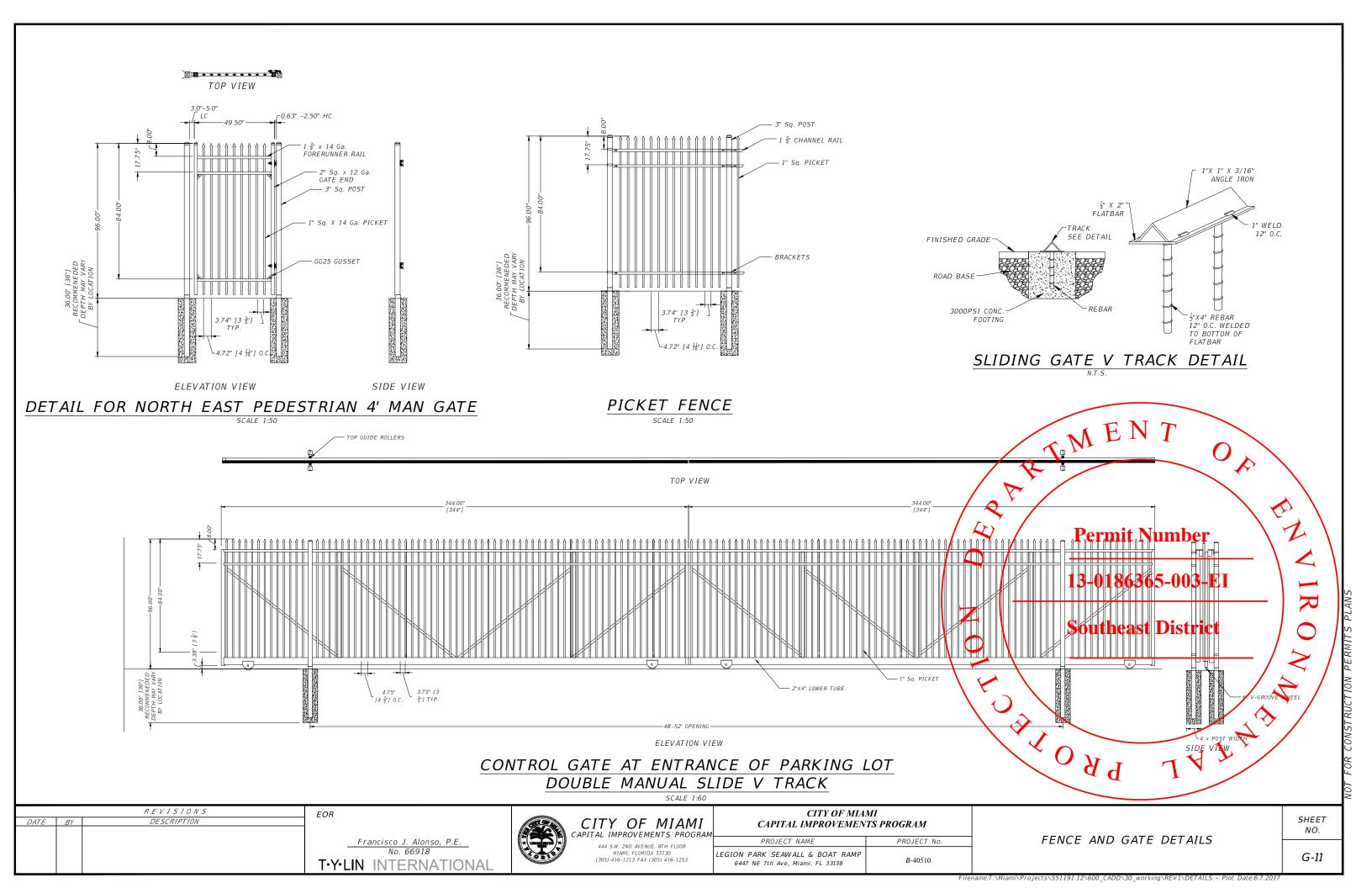
> 444 S.W. 2ND AVENUE 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253

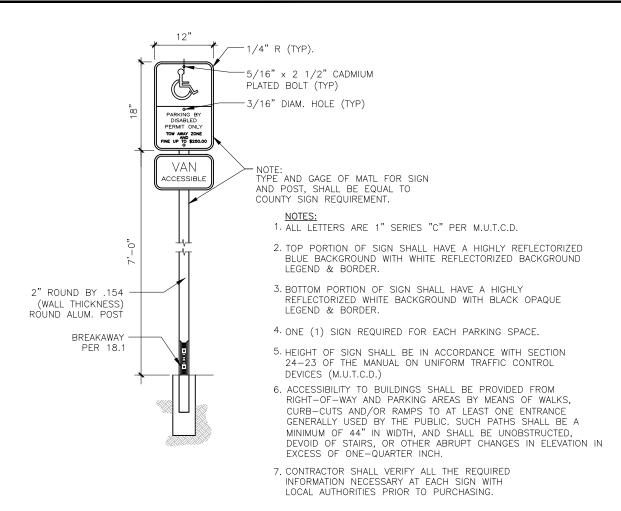
CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME PROJECT No. LEGION PARK SEAWALL & BOAT RAMP B-40510 6447 NE 7th Ave. Miami. FL 33138

HARDSCAPE

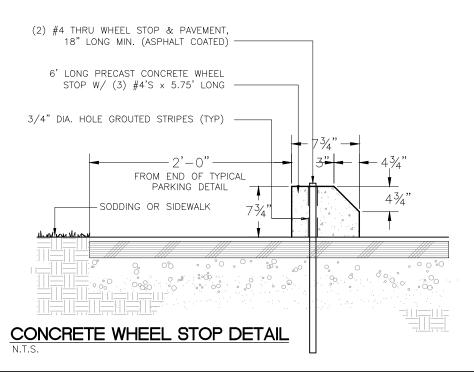
SHEET NO. G-10



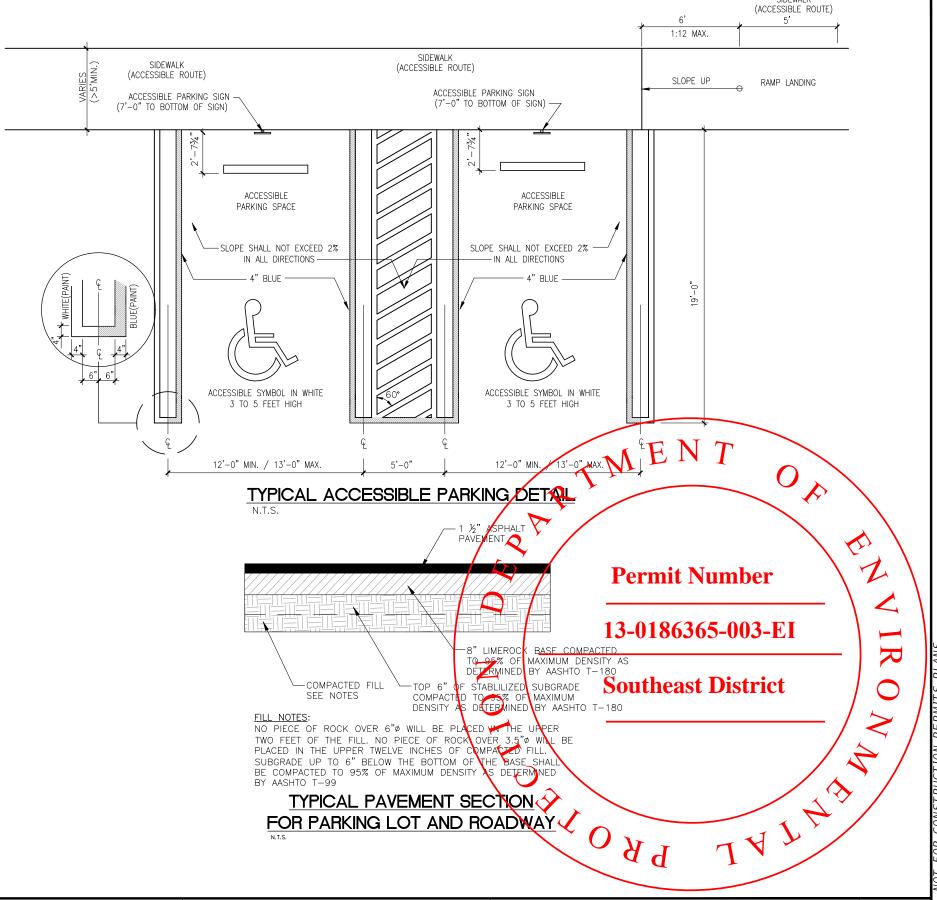


SIGN REQUIRED AT EACH ACCESSIBLE PARKING SPACE

N.T.S



EOR



DATE BY DESCRIPTION

Francisco J. Alonso, P.E.
No. 66918

T•Y•LIN INTERNATIONAL

REVISIONS



444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253 CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME PROJECT No.

LEGION PARK SEAWALL & BOAT RAMP

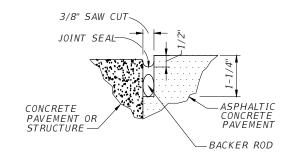
6447 NE 7th Ave. Miami, FL 33138

B-40510

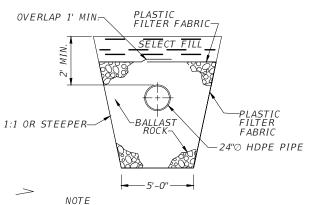
CIVIL DETAILS

SHEET NO. G-12

SIDEWALK

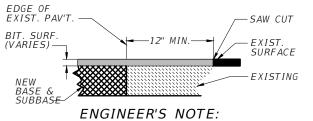


CONCRETE-ASPHALT JOINT DETAIL



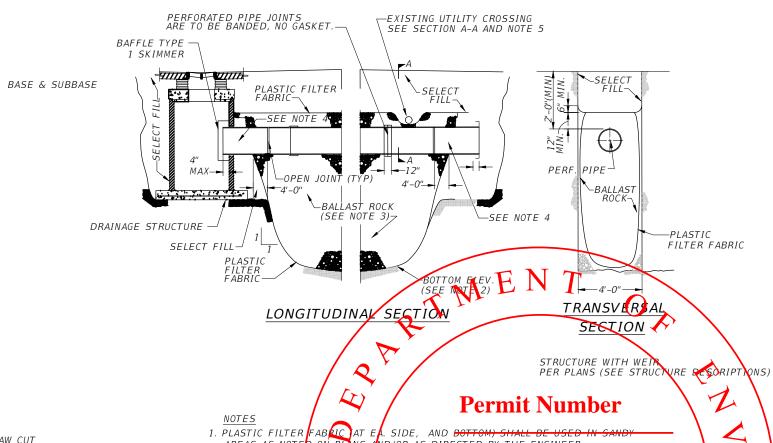
MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE IN BELOW THE WATER TABLE IS LIKELY TO OCCUR.

> ALT. TRANSVERSAL SECTION N.T.S.



DO NOT UNDERCUT EXISTING BASE & SUBBASE SUBGRADE WHEN CONSTRUCTING NEW BASE & SUBBASE

TRANSITION OF NEW ASPHALTIC PAVEMENT TO EXISTING ASPHALTIC PAVEMENT N.T.S.



AREAS AS NOTED ON PLANS AND/OR AS DIRECTED BY THE ENGINEER.

2. THE BOTTOM OF THE EXFILTRATION TRENCH 13401 86365000 PLINT UNLESS FIELD CONDITIONS WARRANT OTHERWISE AND AS APPROVED BY THE ENGINEER.

3. AFTER THE BALLAST BOCK HAS BEEN PLACED TO THE PROPER ELEVATION, IT SHALL BE CAREFULLY WASHED JOWN WITH CLEAN WATER IN ORDER TO ALLOW INITIAL SETTLEMENT THAT MAY OCCUR. IF IT DOES TAKE PLACE, CONTINUE BALLAST ROCK SHALL BE ADDED TO RESTORE THE BALLAST ROCK TO THE PROPER ELEVATION, SO THAT THE EXFILTRATION TRENCH BE COMPLETED IN ACCORDANCE WITH THE DETAILS.

4. NO SLOTS OR PERFORATIONS ON THIS LENGTH OF PIPE (4' TYPI

5. WHEN AN EXISTING UTLITY IS CROSSING BELOW THE TOP OF TRENCH ELEVATION, THE TOP OF TRENCH SHALL BE MOSTFIED TO FALL BELOW THE EXISTING UTLITY'S INVERT, ALLOWING FOR THE EXISTING UTLITY TO REMAIN OUT OF THE TRENCH. (SEE SECTION A-A AT RIGHT)

TYPICAL EXFILTRATION TRENCH (FRENCH DRAIN) DETAIL O_{Aq}

REVISIONS EOR DATE BY Francisco J. Alonso, P.E. No. 66918

T-Y-LIN INTERNATIONAL

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM

444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM PROJECT No. PROJECT NAME

B-40510

LEGION PARK SEAWALL & BOAT RAMP

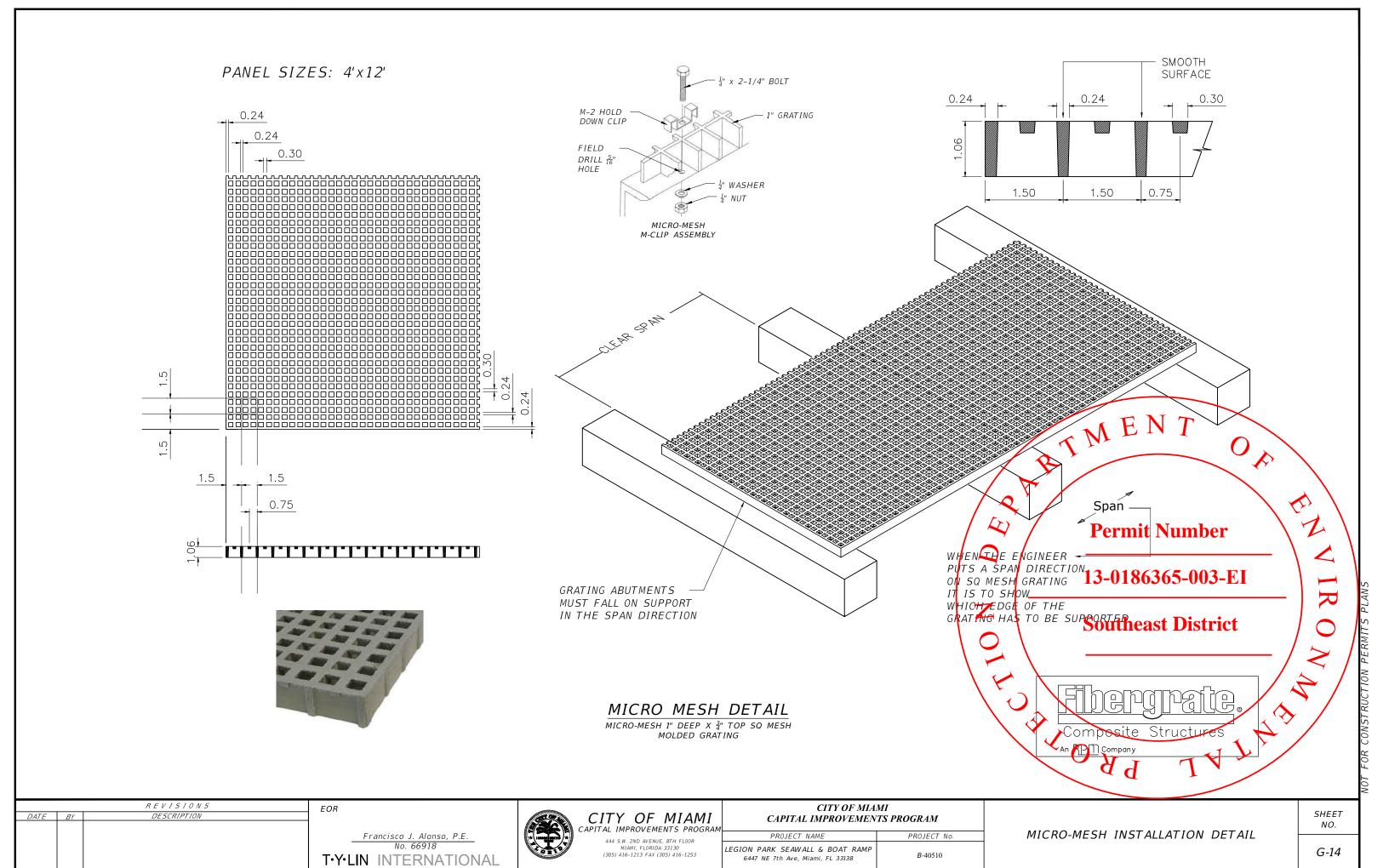
6447 NE 7th Ave, Miami, FL 33138

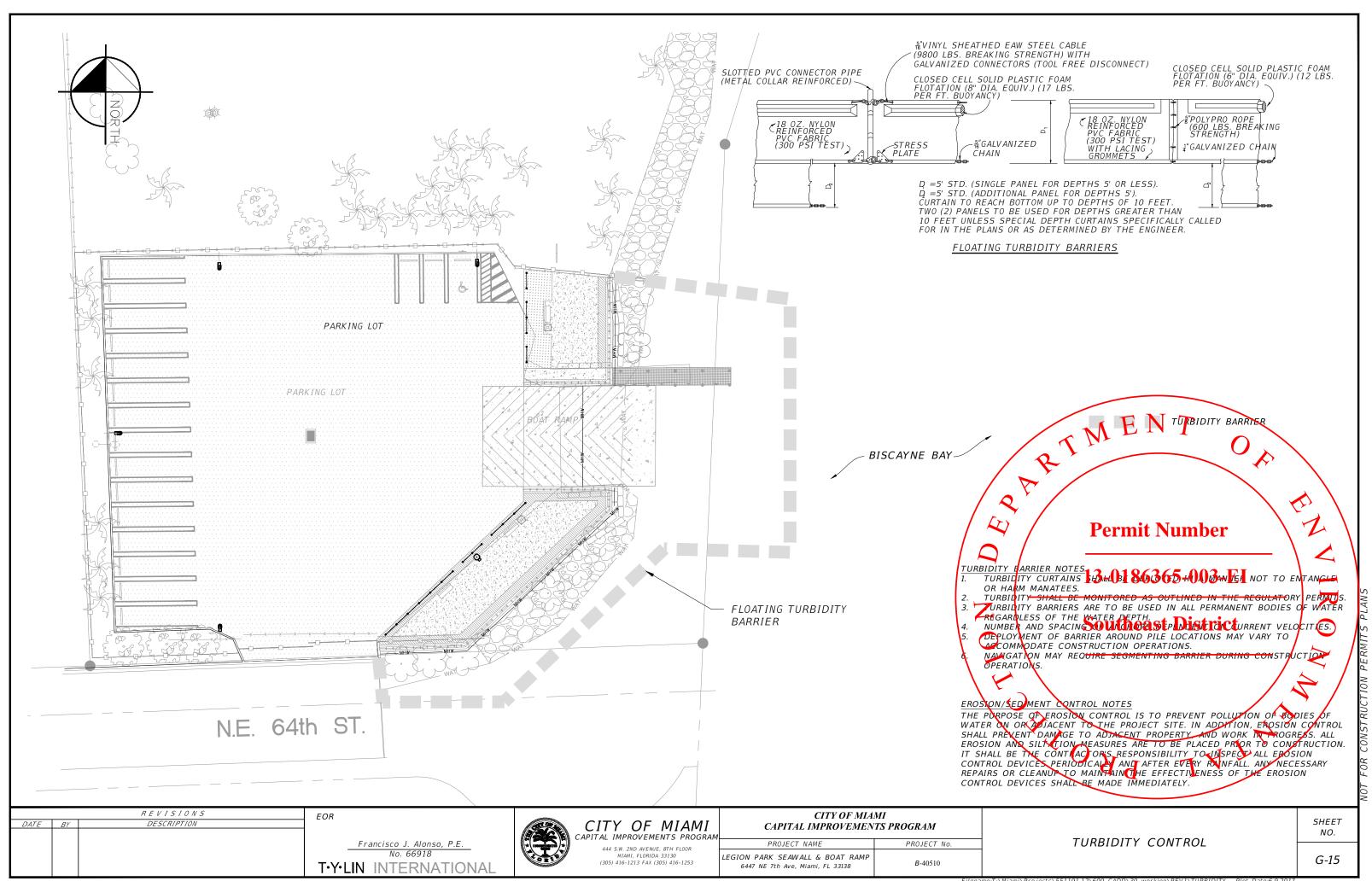
DRAINAGE DETAILS

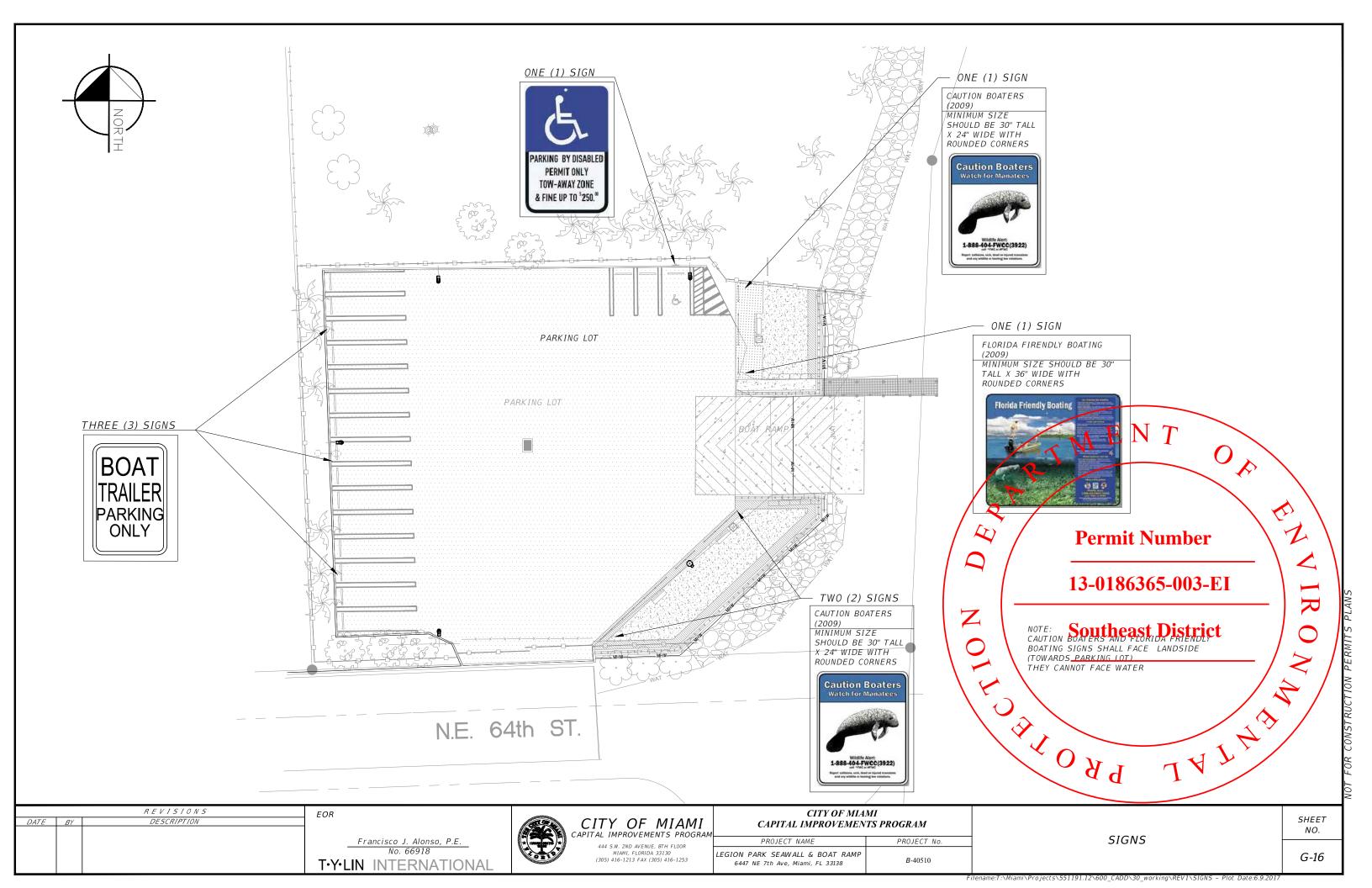
SHEET NO.

G-13

ア







STRUCTURAL ABBREVIATIONS GENERAL NOTES THE FOLLOWING NOTES APPLY, UNLESS OTHERWISE NOTED OR SHOWN ON PLANS. ANCHOR BOIT WORK SHALL COMPLY WITH THE MIAMI 21 ZONING CODE, AND THE 2014 EDITION OF THE FLORIDA BUILDING CODE WITH FLORIDA DEPARTMENT OF TRANSPORTATION MODIFICATIONS (2015). ADD'LADDITIONAL AMERICAN CONCRETE INSTITUTE ACIALUM SECTIONS AND DETAILS SHOWN ON DRAWINGS ARE TYPICAL. USE SIMILAR CONSTRUCTION AT LOCATIONS NOT ALUMINUM AMERICAN NATIONAL STANDARD INSTITUTE **ANSI** SPECIFICALLY DETAILED. AMERICAN SOCIETY FOR TESTING AND ASTM THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & DIMENSIONS PRIOR TO THE START OF WORK. PROTECTION OF EXISTING STRUCTURES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE MATERIALS AW.S AMERICAN WELDING SOCIETY GENERAL CONTRACTOR. INSTALL MATERIALS PER MANUFACTURERS' RECOMMENDATIONS AND SPECIFICATIONS. APPROX **APPROXIMATE** B/EL BOTTOM ELEVATION DRAWINGS HEREIN ARE BASED ON GEOTECHNICAL REPORT BY NV5 DATED DECEMBER 1, 2016. BORINGS INDICATE LIMESTONE AT A DEPTH OF 10.5'± BELOW EXISTING GRADE. SEE NOTES FOR PILE DRIVING BOTT ВОТТОМ BRG BEARING REGARDING TIMBER PILES AND PRECAST CONCRETE SHEET PILES. CENTER LINE **DESIGN NOTES:** CONTROL JOINT CLRCLEAR CONC CONCRETE DESIGN CRITERIA CONT CONTINUOUS DOCK/PIER LIVE LOADS: (FDOT STANDARDS) DIA DIAMETER TYPICAL UNLESS NOTED OTHERWISE 100 PSF DIM DIMENSION WIND LOADS: (ASCE 7-10, CHAPTER 7) BASIC WIND SPEED 17 DLDEAD LOAD DWG DRAWING 170 MPH DWL DOWEL RISK CATEGORY EΑ EACH WIND EXPOSURE INTERNAL PRESSURE COEFFICIENT N/A (OPEN STRUCTURE) EF EACH FACE ELEV ELEVATION CONCRETE NOTES EMBED **EMBEDMENT** EW EACH WAY EXP EXPANSION ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE TO SECTION 346 OF THE FDOT SPECIFICATIONS. CONSTRUCTION OF ALL STRUCTURAL FOUNDATIONS TO FOLLOW SECTION 455 OF FDOT SPECIFICATIONS. EXT **EXTERIOR** FDNFOUNDATION CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF: FT PRECAST SHEETPILES 6000 PSI FTGFOOTING BULKHEAD 6000 PSI GALV GALVANIZED REMAINING CAST-IN-PLACE 4000 PSI IN INCHES PORTLAND CEMENT USED FOR CONCRETE WORK SHALL COMPLY WITH ASTM C-150 FOR TYPE I/II CEMENT. NORMAL WEIGHT CONCRETE SHALL CONTAIN FINE AND COARSE AGGREGATES COMPLYING WITH ASTM C-33. INTINTERIOR JOINT JT THE MAXIMUM SIZE OF COARSE AGGREGATES SHALL BE OF SIZES SUITABLE FOR PLACEMENT IN STRUCTURAL KIPKIPS (1 KIP = 1,000 LBS.)ELEMENTS CONSIDERING THEIR SIZE AND REINFORCEMENT CONFIGURATION. K/FT KIPS PER FOOT REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS COMPLYING WITH ASTM A615. WELDED WIRE KSF KIPS PER SQUARE FOOT FABRIC SHALL BE GRADE 65 PLAIN WIRE CONFORMING TO ASTM A185. CHAMFER EXPOSED CORNERS OF CONCRETE 3/4 INCH. I FNGTH LBS **POUNDS** CLEAN REINFORCING OF LOOSE RUST, MILL SCALE, DIRT, OR ANY OTHER FOREIGN MATERIAL. ACCURATELY LIVE LOAD POSITION, SUPPORT AND SECURE REINFORCEMENT. MAT'LMATERIAL MINIMUM CONCRETE PROTECTIVE COVER FOR REINFORCEMENT SHALL BE 1.5". MAXMAXIMUM MFGMANUFACTURER CONCRETE REINFORCEMENT NOTES MINMINIMIIM MISC MISCELLANEOUS MPHMILES PER HOUR ALL REINFORCING STEEL TO BE IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 415. MWFRS MAIN WIND FORCE RESISTING SYSTEM REINFORCEMENT WORK OF DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318", "ACI DETAILING MANUAL (SP-66", "CRSI MANUAL OF STANDARD NUMBER SYMBOL FOR REBAR SIZE PRACTICE (MSP I)" AND "STRUCTURAL WELDING CODE - REINFORCING STEEL (AWS D1.4)". NTS NOT TO SCALE STEEL REINFORCEMENT. UNLESS NOTED OTHERWISE. SHALL COMPLY TO ASTM A615 GRADE 60 (Fy = 60.000 PSI). OC PCF ON CENTER REINFORCING TO BE WELDED SHALL COMPLY TO ASTM A706 (Fy = 60,000 PSI) OR MILL TEST REPORTS SHALL BE POUNDS PER CUBIC FOOT P or PL PEJ SUBMITTED SHOWING CARBON EQUIVALENT. PREFORMED EXPANSION JOINT MATERIAL MINIMUM CONCRETE PROTECTIVE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS UON: PLFPOUNDS PER LINEAR FOOT PSF PT b. CONCRETE EXPOSED TO WEATHER. 2.0" POUNDS PER SQUARE FOOT PRESSURE TREATED WOOD c. ALL OTHER LOCATIONS 0.75" LAPS SHALL BE CLASS B TENSION LAP SPLICES, FOR #4 BARS AND LARGER UON. PVC POLYVINYL CHLORIDE REF WHERE REINFORCEMENT IS SHOWN IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION REFERENCE REINE REINFORCED REQ'D REQUIRED REINFORCEMENT SHALL NOT BE TACK WELDED OR HEATED FOR BENDING. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE REVREVISION PLACEMENT. NOTIFY CONTRACTING OFFICER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED STN STL STAINLESS STEEL SCHED COMPLETION OF THE INSTALLATION OF REINFORCEMENT. SCHEDULE SECT CLEAN REINFORCING OF LOOSE RUST, MILL SCALE, DIRT, OR ANY OTHER FOREIGN MATERIAL. ACCURATELY POSITION. SECTION PROVIDE SUPPORT BARS AT NOT MORE THAN 4'-O" ON CENTER AND SECURE REINFORCEMENT. SF SOLIARE FEET SIM SIMILAR FOUNDATION NOTES TOPTOP OF T/ELEV TOP ELEVATION SLAB-ON-GRADE/COVERED SHELTER FOUNDATIONS ARE DESIGNED FOR AN ASSUMED ALLOWABLE BEARING CAPACITY OF TOP AND BOTTOM T&B 2,000 POUNDS PER SQUARE FOOT. CONTRACTOR TEST SOIL TO VERIFY SOIL BEARING CAPACITY PRIOR TO TYP TYPICAL CONSTRUCTION UNLESS OTHERWISE NOTED UON COMPACTED BACKFILL: BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY ACCORDING TO **VERT VERTICAL** ASTM D1557. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH. W/ WITHDO NOT DAMAGE WALL CONSTRUCTION WITH COMPACTION EQUIPMENT.

WOOD GENERAL NOTES

- 1.0 GENERAL: THE FOLLOWING SPECIFICATIONS GOVERN:
- 1.1 NDS (2012)
- AISC (13th Edition)
- 1.3 ACI (2011)
- DESIGN CRITERIA:
- LIVE LOAD ON DECK: 100 PSF 2.1
- DEAD LOAD: 20 PSF
- 2.3 DENSITY OF WOOD: 50 lb/Ft3
- 2.4 2000 POUNDS MAXIMUM MOORING LOADS PER CLEAT @ 8'-0" MIN.
- ALL ELEVATIONS ARE IN FEET AND TENTHS AND THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
- 3.2 ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.
- 4.1 STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS. ANY DISCREPANCY WITH THE STRUCTURAL DRAWING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE WORK.
- ALL TIMBER OTHER THAN PILES SHALL BE PRESSURE TREATED No. 1 SOUTHERN YELLOW PINE OR BETTER HAVING THE FOLLOWING PROPERTIES WHEN MOISTURE CONTENT EXCEEDS 19%. (GRADE No. 1) Fb= 1350 psi
- E= 1600,000 psi (MODULUS OF ELASTICITY)
- ALL TIMBER SHALL BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) FOR MARINE USE WITH A MINIMUM RETENTION IN POUNDS PER CUBIC FT. AS FOLLOWS: = 2.50• JOISTS, STRINGERS AND BLOCKINGS
 - = 2.50• DECKING = 0.60
- 5.3 TREATMENT SHALL BE IN CONFORMANCE WITH THE STANDARDS OF AWPA C18 CUT OR
- TREATMENT SHALL BE IN CONFORMANCE WITH THE STANDARDS OF AWPA C18 CUT OR SAWED SURFACES IN PRESERVATIVE TREATED MEMBERS SHALL RECEIVE TWO COATS OF THE SAME PRESERVATIVE USED IN THE ORIGINAL TREATMENT.

 TIMBER DECKING SHALL BE PLACED "BACKSIDE" FACE UPLAND BE CUT IN CONTINUOUS LENGTH. ANCHORS OF DECKING TO TRAVING SYSTEM SHALL BE HAND TIGHT. TIMBER DECK SHALL BE FREE OF SPLANTERS WARPAGE, BOW, ETC., AND SHALL BE "PLANED" TO A FINISHED SURFACE. SPACING BETWEEN DECK BOARDS SHALL BE SETTIMBER PILE, JOISTS AND STRINGERS SHALL BE ROUGH SAWN.

 TIMBER PILES SHALL BE TREENHEART GRADE HS WITH fb= 3785 RSI MIN.

- HARDWARE:
- ALL HARDWARE COCLUDING BOLTS, NUTS, WASHERS, STEEL ANGLES, ETC. SMALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH ASTM A123 TIMBER SHALE BE PREDRILLED FOR THE NAIL INSTALLATION AND BOLTED CONNECTORS TO AVOID SPECTING.

 Permit Number Permit Number
- STRUCTURAL STEEL:
 STRUCTURAL STEEL BOLTS AND FASTENERS SHALL CONFORM TO ASTM A307.

CLEATS: 13-0186365-003-EI

- CAST STEEL CLEATS CAPABLE OF RESISTING 2,000 POUNDS APPROVAL

SHOP DRAWINGS

CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS FOR THE FOLLOWING, FOR REVIEW AND APPROVAL, PRIOR TO CONSTRUCTION OR INSTALLATION.

- TREATMENT PLANT DATA FOR PILES SH
- TYPE CERTIFICATION • CHEMICAL PROCESS USED FOR TREATMENT • NET AMOUNT OF CHEMICAL RETAINED
- FASTENER
- FOUNDATION
 EXISTING PILES ASSUMED TO BE 12" © GREENHEART TIMBER DRIVEN 5' INTO ROCK OFF
 FIRM SOIL AS DETAILED IN MAMI-DADE DERM'S APPROVAL DATED 5-4-2004

REVISIONS DATE BY

WITHOUT

WORK POINT

WELD WIRE FABRIC

W/0

WP

WWF

Alejandro Salas P.E. No. 74789 T-Y-LIN INTERNATIONAL

PROCTOR VALUE FOR BACKFILL).

EOR



FOUNDATION DESIGN BASED ON GEOTECHNICAL REPORT PREPARED BY NV5. DATED DECEMBER 1, 2016.

FOUNDATIONS ARE TO BEAR ON COMPACTED "RESIDUAL SOIL" OR ON TESTED, STRUCTURAL BACKFILL (98% MODIFIED

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM

444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253

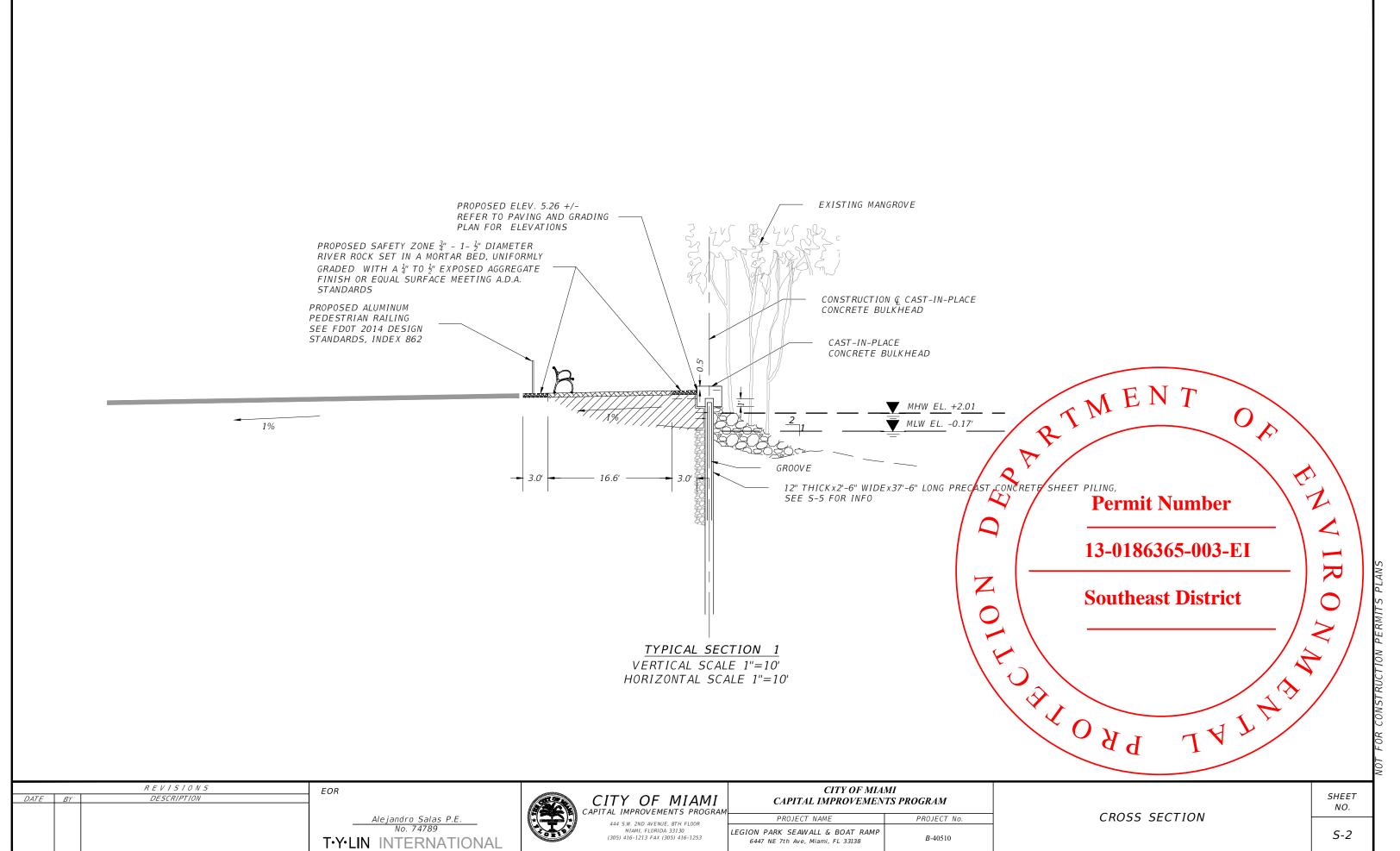
CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM

PROJECT No. PROJECT NAME LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave. Miami, FL 33138

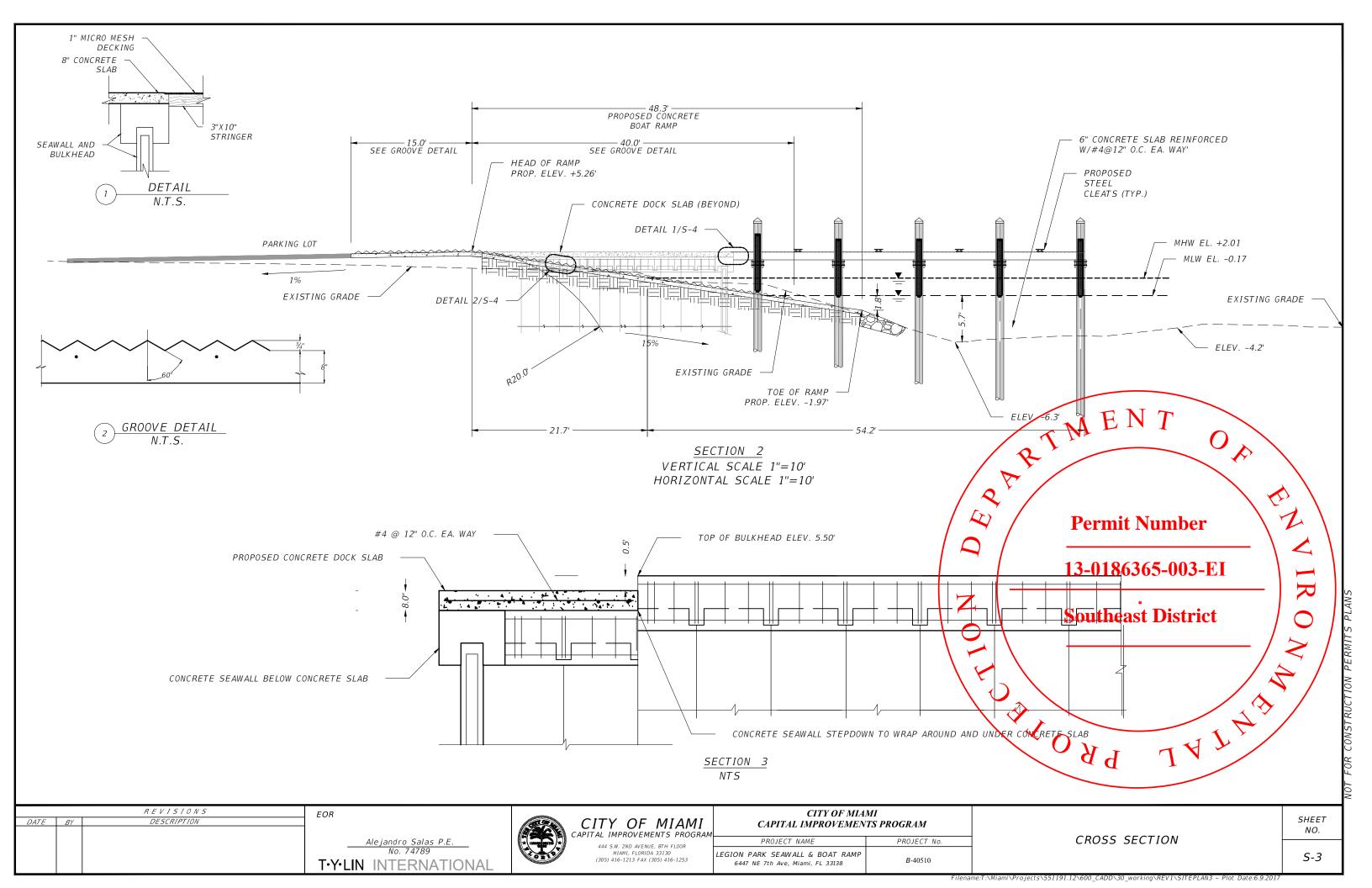
STRUCTURAL GENERAL NOTES & **ABBREVIATIONS**

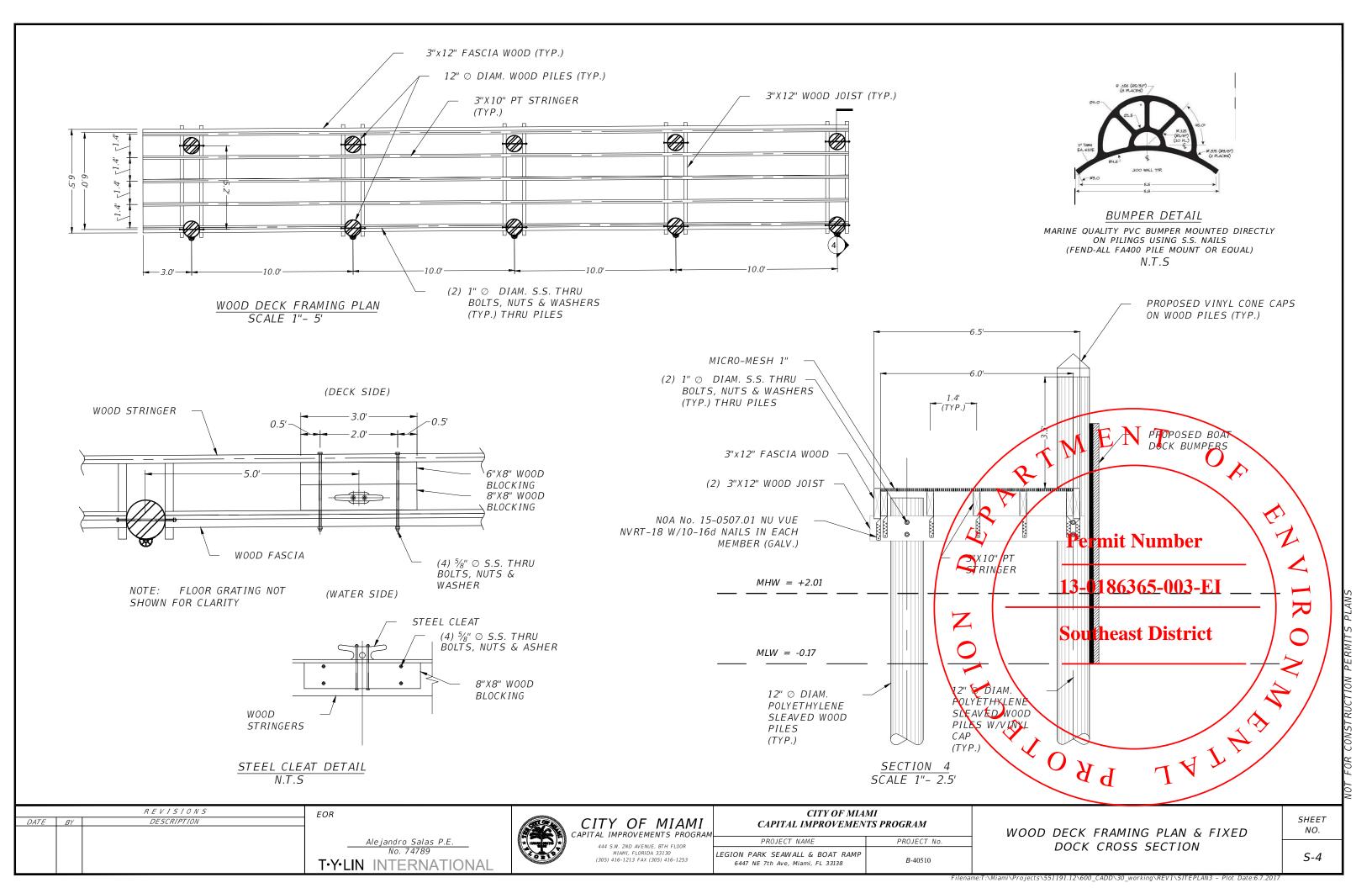
SHEET NO.

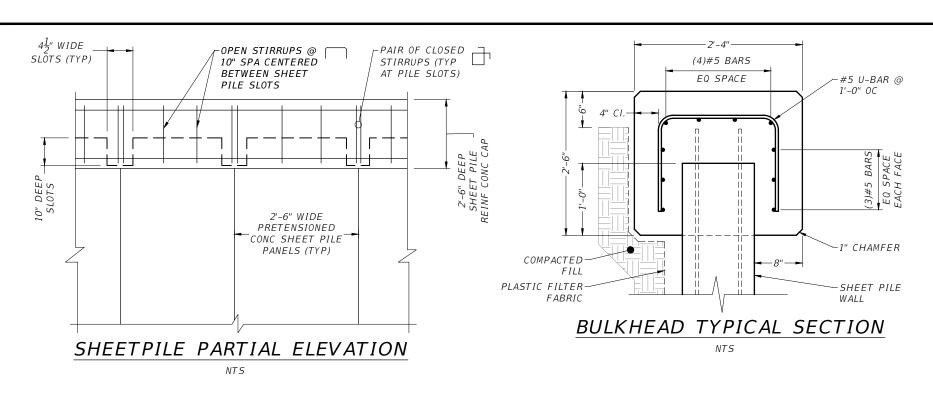
S-1

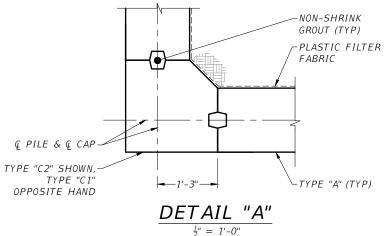


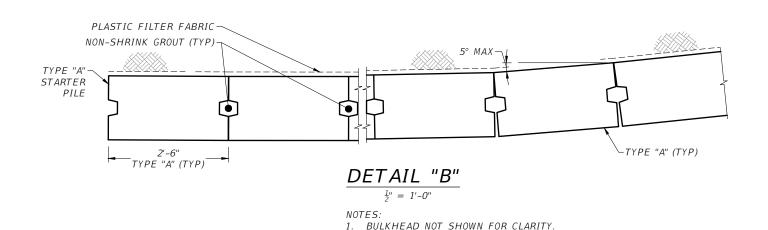
Filename:T:\Miami\Projects\551191.12\600_CADD\30_working\REV1\SITEPLAN3 - Plot Date:6.7.2











REVISIONSEOR DESCRIPTION DATE BY Alejandro Salas, P.E. No. 74789 T-Y-LIN INTERNATIONAL



CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM PROJECT NAME PROJECT No. LEGION PARK SEAWALL & BOAT RAMP

6447 NE 7th Ave, Miami, FL 33138

SEAWALL DETAILS

SHEET NO. S-5

PRESTRESSED CONCRETE SEAWALL PILE DESIGN CRITERIA AND NOTES SOIL BORINGS INDICATE LIMESTONE AT DEPTH OF 12'± BELOW EXISTING GRADE PER GEOTECHNICAL REPORT BY NV5 DATED DECEMBER 1, 2016. PRECAST CONCRETE PILE ARE TO BE INSTALLED IN ACCORDANCE WITH FDOT SPECIFICATION 455 (STRUCTURES FOUNDATIONS). CANTILEVERED CONCRETE RETAINING WALL (SEAWALL) INCLUDES DETAILS FOR FOUR TYPES OF PILES. TYPES "B1", "B2", AND "C1" PILES (CORNER PILES) ARE OF REINFORCED CONCRETE CONSTRUCTION, AND TYPE "A" IS OF PRESTRESSED CONCRETE CONSTRUCTION. THE PILES SHALL BE MANUFACTURED, CURED AND INSTALLED IN

ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

V (SPECIAL) FOR SLIGHTLY AND MODERATELY AGGRESSIVE ENVIRONMENTS V (SPECIAL W/ SILICA FUME) FOR EXTREMELY AGGRESSIVE ENVIRONMENT UNIT WEIGHT:

MODULUS OF ELASTICITY: BASED ON THE USE OF FLORIDA LIMEROCK CONCRETE REINFORCING STEEL: ASTM A615 GRADE 60

PRESTRESSING STEEL: DESIGN PARAMETERS: TYPE "A"

MATERIALS: CONCRETE

CLASS:

ASTM A416 GRADE 270 (LOW-RELAXATION STRAND)

CONCRETE COMPRESSIVE STRENGTH AT RELEASE OF PRESTRESSING: 4000 PSI MINIMUM UNIFORM COMPRESSION AFTER PRESTRESSING LOSSES: 1000 PSI MINIMUM PICK-UP, STORAGE AND TRANSPORTATION: 0.0 PSI TENSION WITH 1.5 TIMES PILE SELF WEIGHT TYPES "B1", "C1", & "C2"

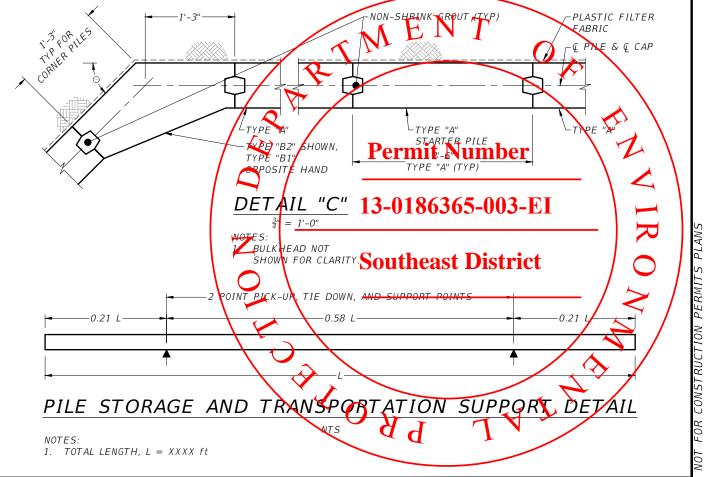
PICK-UP, STORAGE AND TRANSPORTATION: MINIMUM COMPRESSIVE STRENGTH F'CI ≥ 4000 PSI GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI. THE GROUT SHALL BE NON-METALLIC AND NON-SHRINK. GROUT TO BE DUMPED IN PLACE AT ALL VERTICAL PANEL JOINTS.

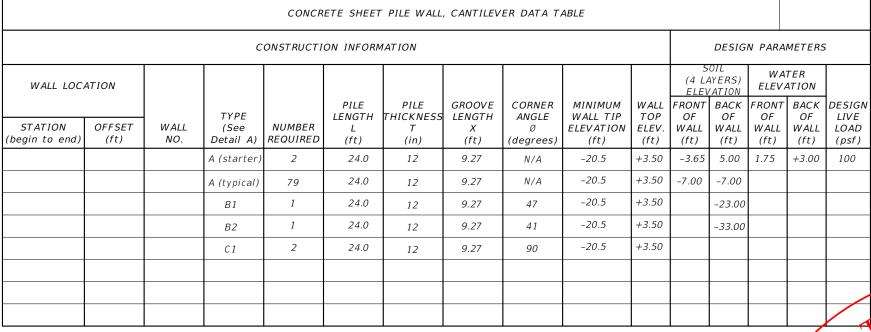
PILE PICK-UP AND HANDLING: TYPE "A"

PICK-UP OF PILE MAY BE EITHER A SINGLE POINT PICK-UP OR A TWO POINT PICK-UP AS SHOWN BELOW. TYPES "B1", "C1" & "C2"

TWO POINT PICK-UP FOR LIFTING OUT OF FORMS & TWO POINT SUPPORT FOR STORAGE & TRANSPORTATION SINGLE POINT PICK-UP FOR INSTALLATION ONLY.

PILE FIT-UP: THE 2'-6" SHEET PILE DIMENSION IS NOMINAL. THIS DIMENSION MAY BE SHORTENED BY THE MANUFACTURER UP TO 1/2" TO ALLOW FOR SHEET PILE FIT-UP IN ITS FINAL POSITION. MINIMUM SHEET PILE WIDTH IS 2'-5 1/2". NO CHANGES SHALL BE MADE TO THE TONGUES OR GROOVES.
BULKHEAD: PROVIDE 1 OPEN JOINT EVERY 30'-0" MAXIMUM SPACING.





NOTES

- 1. WORK THE DATA TABLE WITH INDEX NO. 6040.
- 2. ENVIRONMENTAL CLASSIFICATION IS " <u>EXTREMELY AGGRESSIVE</u>"
- 3. CONCRETE FOR CAST-IN-PLACE RETAINING WALL CAP SHALL BE CLASS_V_(F'C = 6000 PSI), WITH SILICA FUME, METAKAOLIN OR ULTRAFINE FLY ASH.
- 4. REFER TO GEOTECHNICAL REPORT FOR SOIL DESCRIPTION.

Permit Number

13-0186365-003-EI

Southeast District

EOR

Alejandro Salas P.E.
No. 74789

T•Y•LIN INTERNATIONAL



CITY OF MIAMI	_
CAPITAL IMPROVEMENTS PROGRAM	

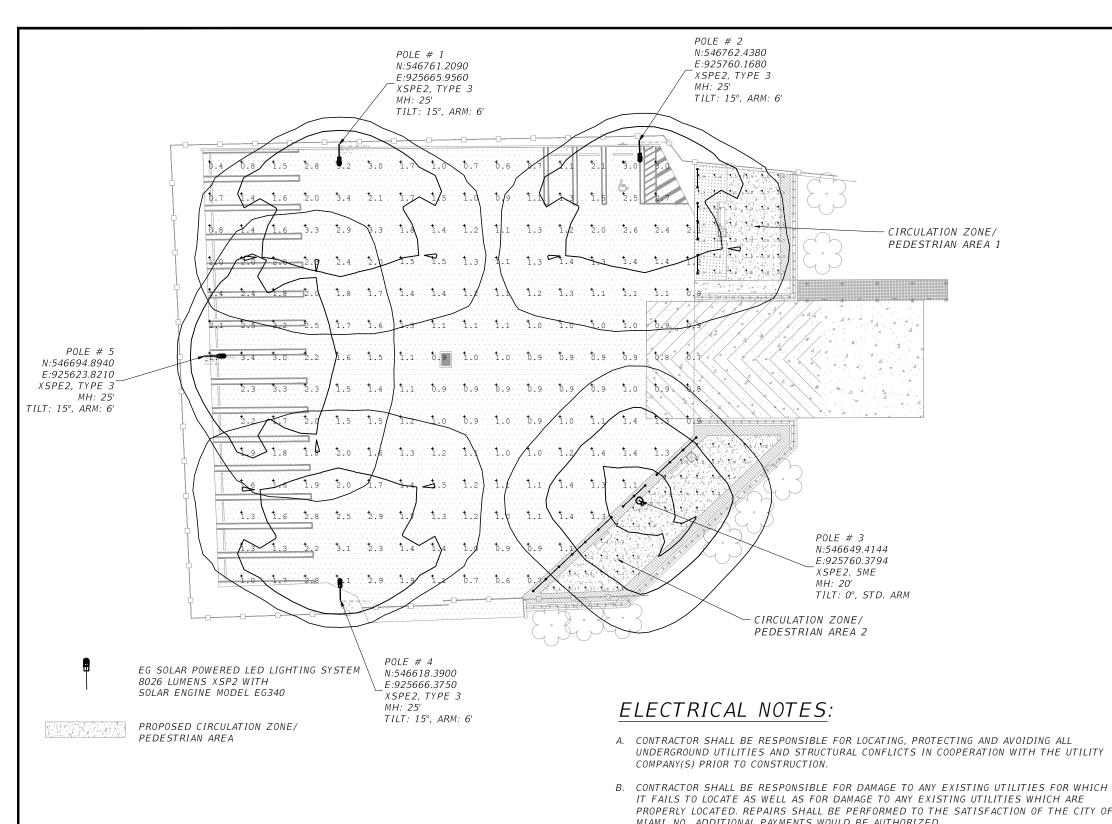
ΔМ	CHI III III III II II II II II II II II I			
11-1	PROJECT NAME	PROJECT No.		
	LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138	B-40510		

CONCRETE SHEET PILE

SHEET NO.

S-6

Filename T. Miami \ Projects \ 551191 12\600 CADD\ 30 working\ REVI\ Concrete \ Sheet Pile \ Detail \ - Plot \ Date 67.72



POLE LOCATION SUMMARY				
POLE NUMBER	NORTHING	EASTING		
1	546761.2090	925665.9560		
2	546762.4380	925760.1680		
3	546649.4144	925760.3794		
4	546618.3900	925666.3750		
5	546694.8940	925623.8210		

CALCULATION SUMMARY						
ILLUMINANCE (Fc)	PARKING	PEDESTRIAN AREA 1	PEDESTRIAN AREA 2			
AVERAGE	1.5400	0.9700	1.0200			
MAXIMUM	3.4000	1.8000	1.3000			
MINIMUM	0.4000	0.5000	0.5000			
AVG/MIN	3.8500	1.9400	2.0400			
MAX/MIN	8,5000	3.6000	2.6000			
		4				

Permit Number

FIXTURE/POL**EI3**Y**01&63:65-003-E**I

POLE TOP SOLAR ENGINE ENCLOSURE CONTAINING SOLAR PANELS, ENERGY MANAGEMENT SYSTEM, AND BATTERIES SQUART SANEL: MODEL EG340, 45° TILT ANGLE, 490 W, FOUR AGM G27 TYPE CATTERIES STATURES SPECIES SPECIES SOLATION OF THE STATURES STATURES SPECIES SOLATION OF THE STATURES SPECIES SOLATION OF THE STATURES SOLATION O 4000, DISTRIBUTION AS SHOWN ON PLANS.

EG340 SOLAN ENGINE MODEL, 20°-45° SOLAR PANEL TILT DEPENDING ON WINE SPEED ZONE, ROUND POLE MOUNTING OPTION, DUSK UNTIL DAWN OPERATION, SINGLE FIXTURE WITH 10 MDA PER FIXTURE. CONTRACTOR TO PROVIDE ALL ACCESSORIES BY BOTH POST AND LUMINAIRE MANUFACTURER TO GUARANTEE PERFECT FIT AND A COMPLETE INSTALLATION. POST/BASE AND POST TOP TO SUSTAIN F.B.C. WIND LOAD REQUIREMENTS. MANDEACTURER TO SUBMIT FLORIDA STRUCTURAL ENGINEERING SIGNED AND SPALED CALCULATION COMPLYING WITH THIS REQUIREMENTS.

OLE FOR DIRECT EMBEDMENT WITH ROUND TAPERED PRESTRESSED CONC GROUNDING OPTION, AS MANUFACTURED BY STRESSCRETE GROUP, CATALOG NO. E-XXX-KPR-IGS-MOO, OR APPROVED EQUAL.

4. PRODUCTS OF EQUAL QUALITY/FUNCTION WILL BE ACEPTED UPON REVIEW.

	MIAMI. NO ADDITIONAL FAIMENTS WOULD BE AUTHORIZED.	
С.	STATIONING MAY BE ADJUSTED AS DIRECTED BY THE CITY OF MIAMI REPRESENTATIVE TO	

- AVOID UTILITY OR STRUCTURAL CONFLICTS NOT INDICATED IN THE PLANS.
- D. ALL MATERIAL, UNLESS OTHERWISE SPECIFIED, SHALL BE UNDERWRITER'S LABORATORY APPROVED.
- E. INCIDENTAL ITEMS OR ACCESSORIES REQUIRED TO COMPLETE THE WORK SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR.

		REVISIONS	EOR	
DATE	BY	DESCRIPTION		
			Enrique Jr. Sosa P.E.	
			No. 53885	_
			T-Y-I IN INTERNATION	1/1//
				ハハベト



CITY OF MIAMI APITAL IMPROVEMENTS PROGRAM

444 S.W. 2ND AVENUE 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253

,	CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
	PROJECT NAME	PROJECT No.
	LEGION PARK SEAWALL & BOAT RAMP	

6447 NF 7th Ave. Miami, FL 33138

B-40510

LIGHTING PLAN

SHEET NO. L-1

(2)

Filename:T:\Miami\Projects\551191.12\600_CADD\30_working\REV1\LIGHTING - Plot Date:6.7.2017