

ECEIVE CITY OF MIAMI

OFFICE OF CAPITAL IMPROVEMENTS

Steven C. Williamson, Director

NATURAL RESOURCES DIVISION DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

NOV 2 0 2019

Mayor Francis Suarez

VIRGINIA KEY KAYAK LAUNCH D-2 [B-40584]

[3801 RICKENBACKER CSWY]

[PERMIT SET, APRIL 15, 2019]

Commission:

Chairman - D5 Commissioner Keon Hardemon

Vice Chairman - D2 Commissioner

Ken Russell

D1 Commissioner

Wifredo (Willy) Gort

Joe Carollo

D4 Commissioner

Manolo Reyes

D3 Commissioner



City Manager Emilio T. Gonzalez

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	SPACE RESERVED FOR CITY OF MIAMI APPROVAL STAMP [CONSULTANT NAMES]
	T·Y·LIN INTERNATIONAL 201 ALHAMBRA CIRCLE SUITE 900 CORAL GABLES, FLORIDA 33134 PHONE: (305) 567-1888 FAX: (305) 567-1771 EB00002017

CIVIL ENGINEER

STRUCTURAL ENGINEER OF RECORD: ALEJANDRO SALAS, P.E.

P.E. NO.: 74789

VIRGINA KEY KAYAK LAUNCH - D-2

No.	REVISIO	NS - SUBMIT	ΓALS	DA	TE
SEAL					
SHEET No.	COVER	PAGE	No. 1 of	17	

GENERAL NOTES:

- 1. 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.
- 2. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
- IT IS THE OBLIGATION OF THE CONTRACTOR TO MAKE THEIR OWN INVESTIGATION TO FULLY UNDERSTAND SUBSURFACE CONDITIONS PRIOR TO SUBMITTING THEIR BID. FAILURE TO DO SO, WILL NOT RELIEVE THEM OF THEIR OBLIGATION TO COMPLETE THE WORK FULLY AND ACCEPTABLE TO THE ENGINEER AND THE OWNER FOR THE CONSIDERATION SET FORTH IN THEIR 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
- 7. THE CONTRACTOR SHALL VERIFY THE 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

CONSTRUCTION NOTES:

- ALL WORK SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF, AND ACCEPTABLE TO, THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT AND MIAMI-DADE COUNTY DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES.
- 2. THE CONTRACTOR SHALL PROVIDE THEIR OWN LINE AND GRADE FROM HORIZONTAL AND VERTICAL CONTROL. THE CONTRACTOR SHALL ALSO PROVIDE "AS BUILT" GRADES CERTIFIED BY A REGISTERED PROFESSIONAL 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 A 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,
- 5. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING INLETS CLEAN OF DEBRIS AND ANY OTHER MATERIALS USED DURING CONSTRUCTION AT ALL TIMES DURING 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 STATE ONE-CALL OF FLORIDA, INC (SUNSHINE 811) AT (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES.
- 7. ALL TREES SHALL BE RELOCATED OUTSIDE OF CONSTRUCTION AREA WHERE FEASIBLE. UNAVOIDABLE IMPACT TO MANGROVE TREES SHALL BE MITIGATED IN ACCORDANCE TO APPROVE 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 BE PROTECTED UNLESS OTHERWISE SPECIFIED AND APPROVED.
- 11. THE CONTRACTOR SHALL IMPLEMENT AND ENFORCE ALL NPDES EROSION AND SEDIMENT CONTROL RULES AND REGULATIONS.
- 13. THE CONTRACTOR SHALL INCLUDE IN THE BID PRICE FOR CLEARING AND GRUBBING

ESOURCES DIVISION

ENVIRONMENTAL NOTES

- ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.
- THE CONTRACTOR SHALL REVIEW ENVIRONMENTAL REQUIREMENTS OF ANY PROPOSED STAGING AREAS WITH THE PROJECT ENGINEER AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO USE. 11051000000000
- 3. NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT WILL BE ALLOWED WITHIN ENVIRONMENTALLY SENSITIVE AREAS.
- 4. THE CONTRACTOR SHALL NOT STAGE OR OPERATE EQUIPMENT WITHIN THE BEING NE OF REES
- THE CONTRACTOR SHALL PROVIDE A CERTIFIED ARBORIST TO DETERMINE AND REFORM OR DIRECT ANY ROOT PRUNING AND ANY OTHER TRIMMING ACTIVITIES AT NO ADDITIONAL COST TO THE OWNER.

STRUCTURAL NOTES:

- DESIGN SHALL BE IN ACCORDANCE WITH THE FDOT STRUCTURES MANUAL JANUARY 2018, AND SUBSEQUENT STRU BULLETINS, THE FDOT STRUCTURAL DESIGN STANDARD INDEXES/DRAWINGS, 2017-18, AS AMENDED BY CONTRACT
- 2. VERTICAL DATUM IS NGVD 29.
- 3. ENVIRONMENT IS CLASSIFIED AS EXTREMELY AGGRESSIVE.
- 4. PLAN DIMENSIONS ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE
- 8.1. LOCATIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS. 8.2. FOR STORM DRAINS AND OTHER UTILITIES, FOLLOW GENERAL NOTES ON PROCEDURES INVOLVING EXISTING UTILITIES. 6. 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 REQUIRE APPROVAL OF THE ENGINEER. CUT AND FILL OPERATIONS
- 10.1. THE CONTRACTOR SHALL NOTIFY ADJACENT OWNERS AND INVOLVED UTILITIES IN WRITING TWO (2) WEEKS BEFORE EXCAVATION 10.2. QUANTITIES FOR CUT AND FILL SHOWN IN THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR BEFORE
 - 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



NATURAL RESOURCES DIVISION DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

PRECAST CONCRETE PILES

- INSTALL PILES IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) JANUARY 2018 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 455.
- CONCRETE FOR PILES SHALL MEET THE REQUIREMENTS OF FDOT 2017-18 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 346. CLASS V (SPECIAL) (f'c= 6,000 PSI) WITH SILICA FUME, METAKAOLIN OR ULTRAFINE FLY ASH.
- PRESTRESSED PRECAST CONCRETE PILES (PPCP) SHALL BE IN ACCORDANCE WITH INDEX 20612 (12") & INDEX 20614 (14") OF THE
- CONTRACTOR SHALL BE PREPARED TO PRE-DRILL HOLES AS NECESSARY TO INSTALL PILES TO THE REQUIRED MINIMUM TIP ELEVATION. PILE DRIVING SHALL BE INSPECTED BY A GEOTECHNICAL ENGINEER HIRED BY THE CONTRACTOR.
 - COAT PILES WITH THOROCOAT BY BASF OR APPROVED EQUAL, FROM TOP OF PILE TO 2' BELOW MLW LEVEL.



AUG 3 0 2019

NATURAL RESOURCES DIVISION DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

NATURAL RESOURCES DIVISION

UTILITY COMPANY CONTACT LIST:

AT&T/DISTRIBUTION COMPACT CABLE DADE COUNTY PUBLIC WORKS & TRAFFIC FLORIDA POWER AND LIGHT-DADE FLORIDA POEWR AND LIGHT-SUT MIAMI-DADE SEWER

STEVE LOW LEONARD MAXWELL-NEWBOLD OCTAVIO VIDAL TRACY STERN SEYED HAJASSADOLLAH SERGIO GARCIA

305-222-8745 954-447-8405 305-412-0891 EXT. 201 800-868-9554 305-228-5290 786-268-5320

REVISIONS DATE BY DESCRIPTION T·Y·I IN



CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAI

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

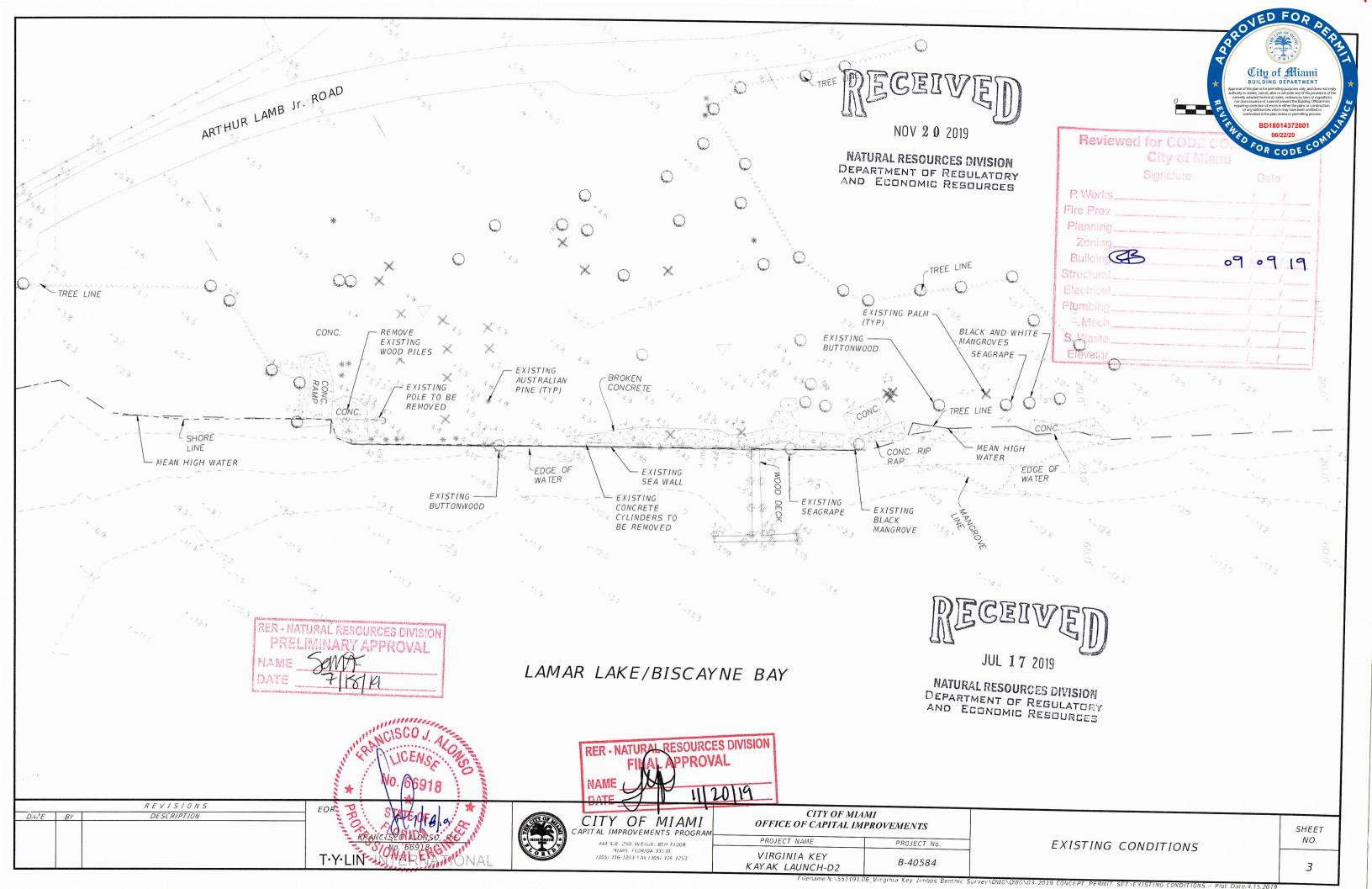
CITY OF MIAMI OFFICE OF CAPITAL IMPROVEMENTS PROJECT NAME PROJECT No. VIRGINIA KEY B-40584 KAYAK LAUNCH-D2

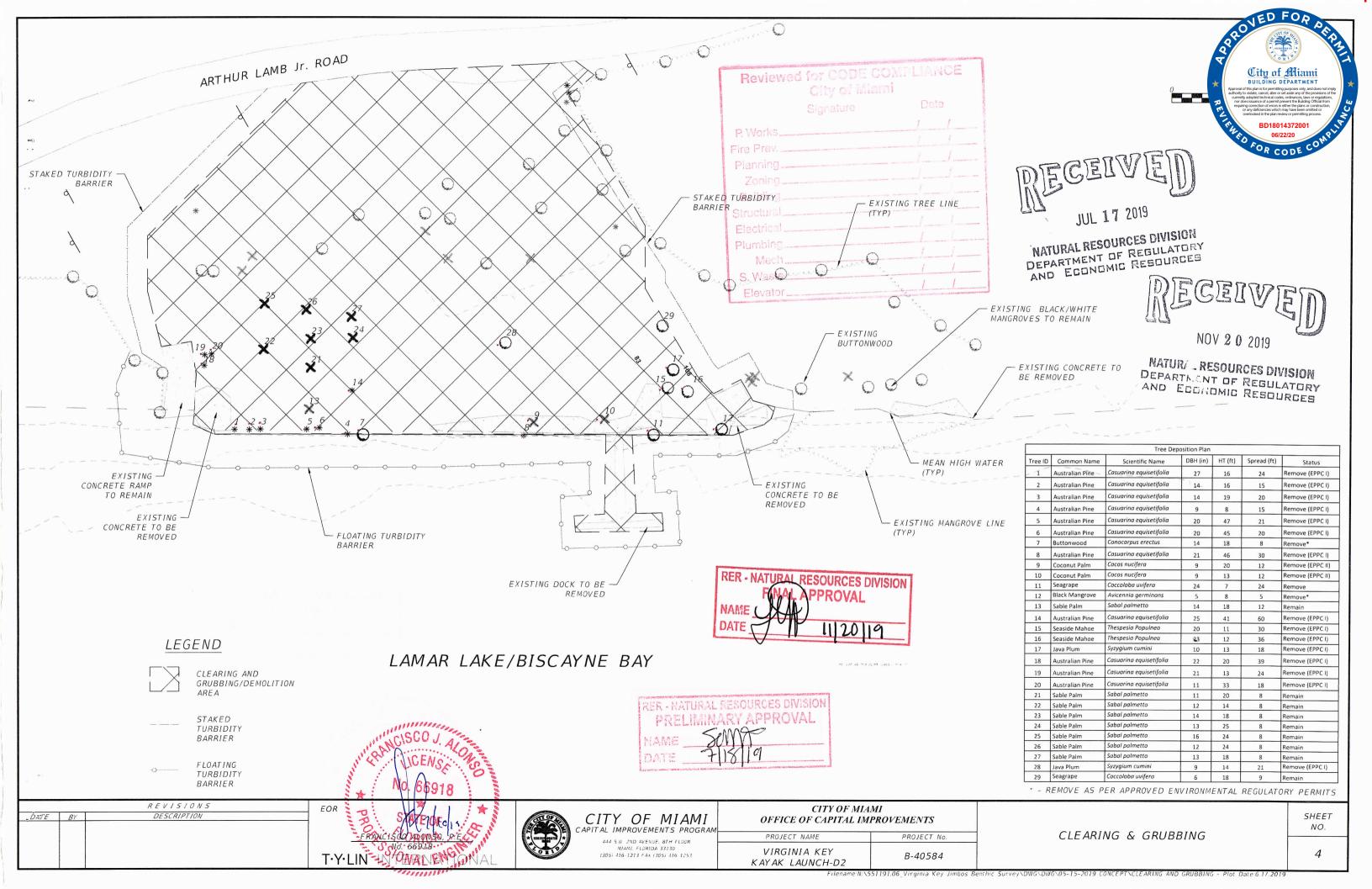
GENERAL NOTES

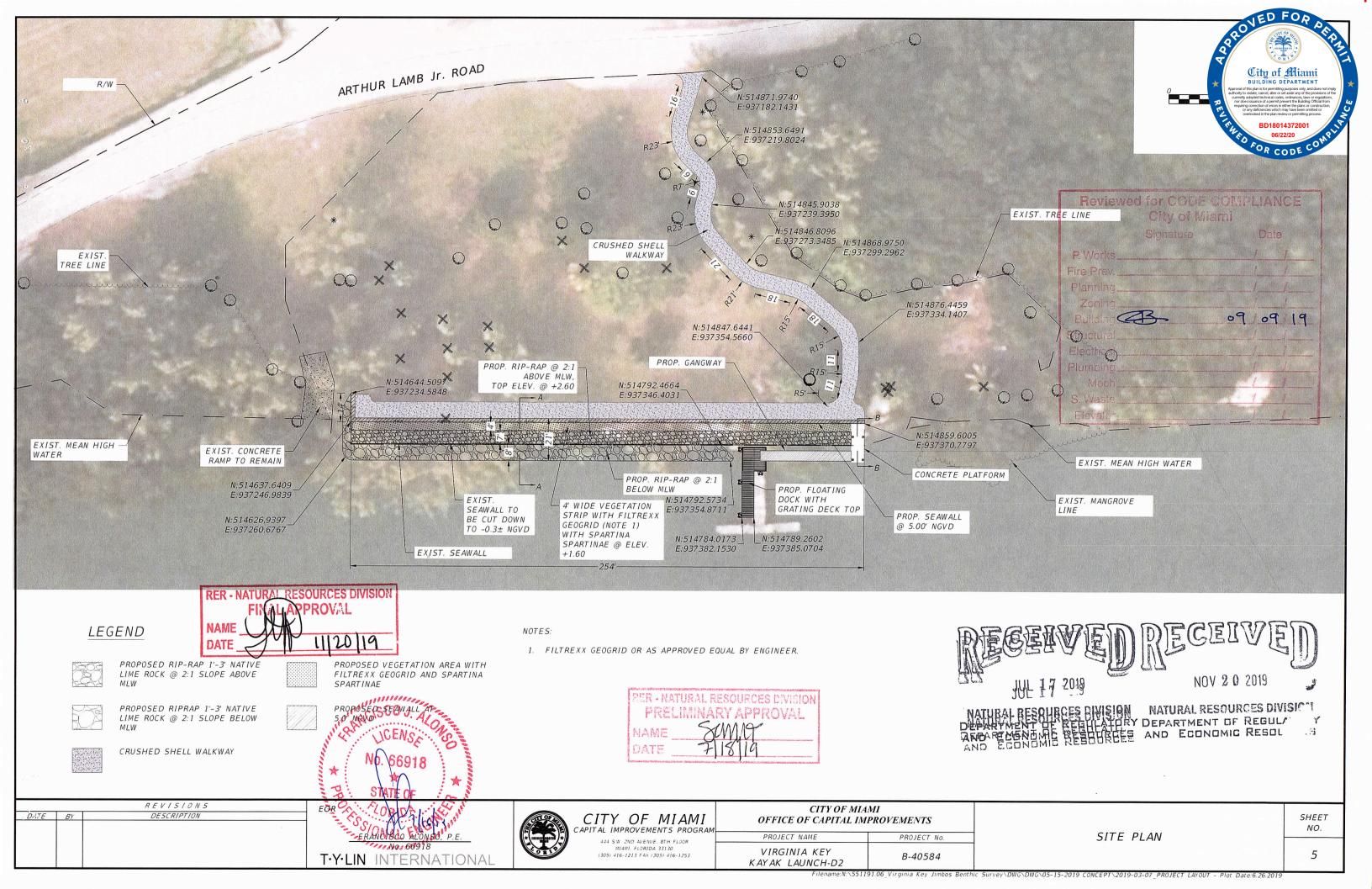
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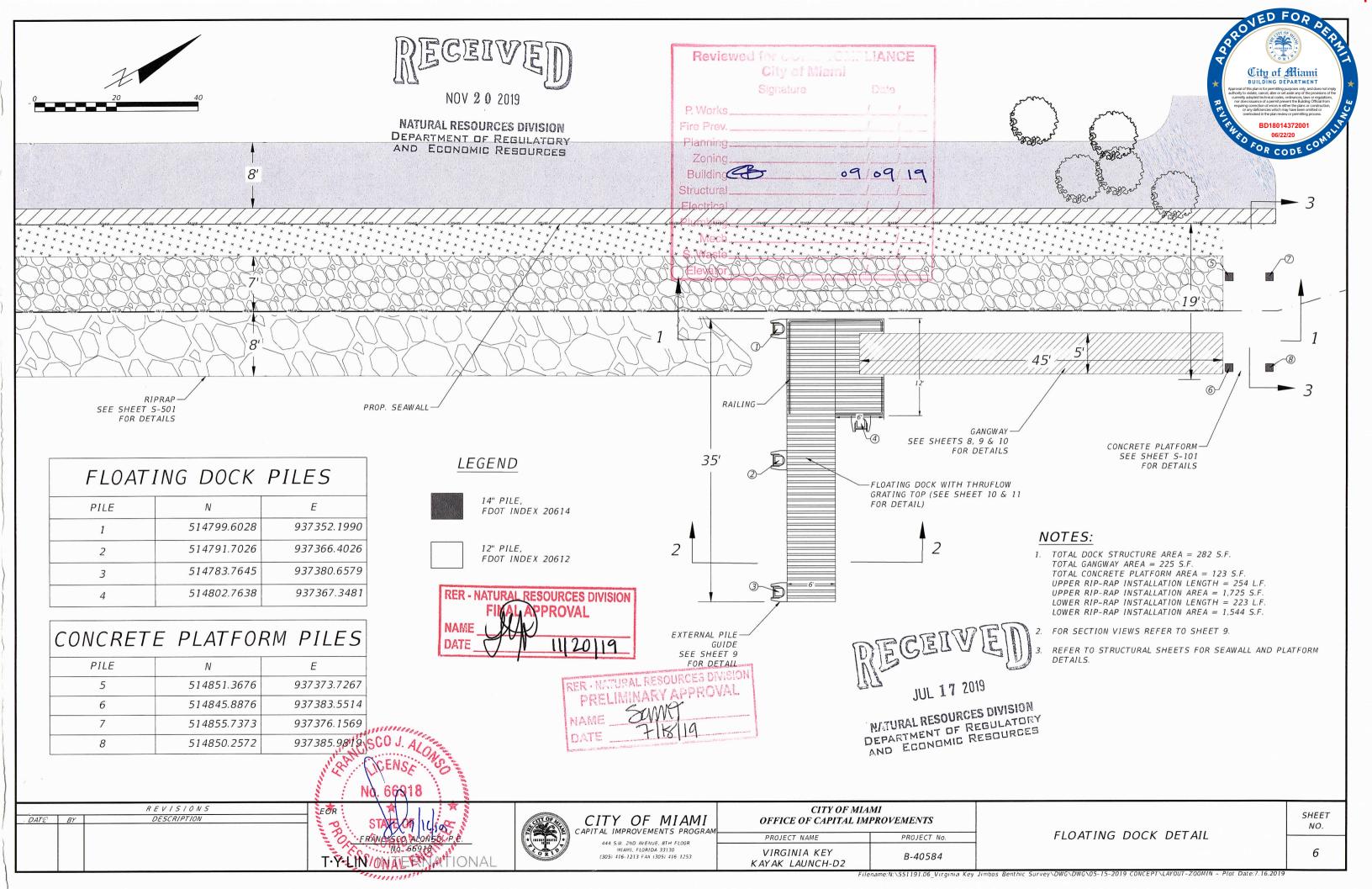
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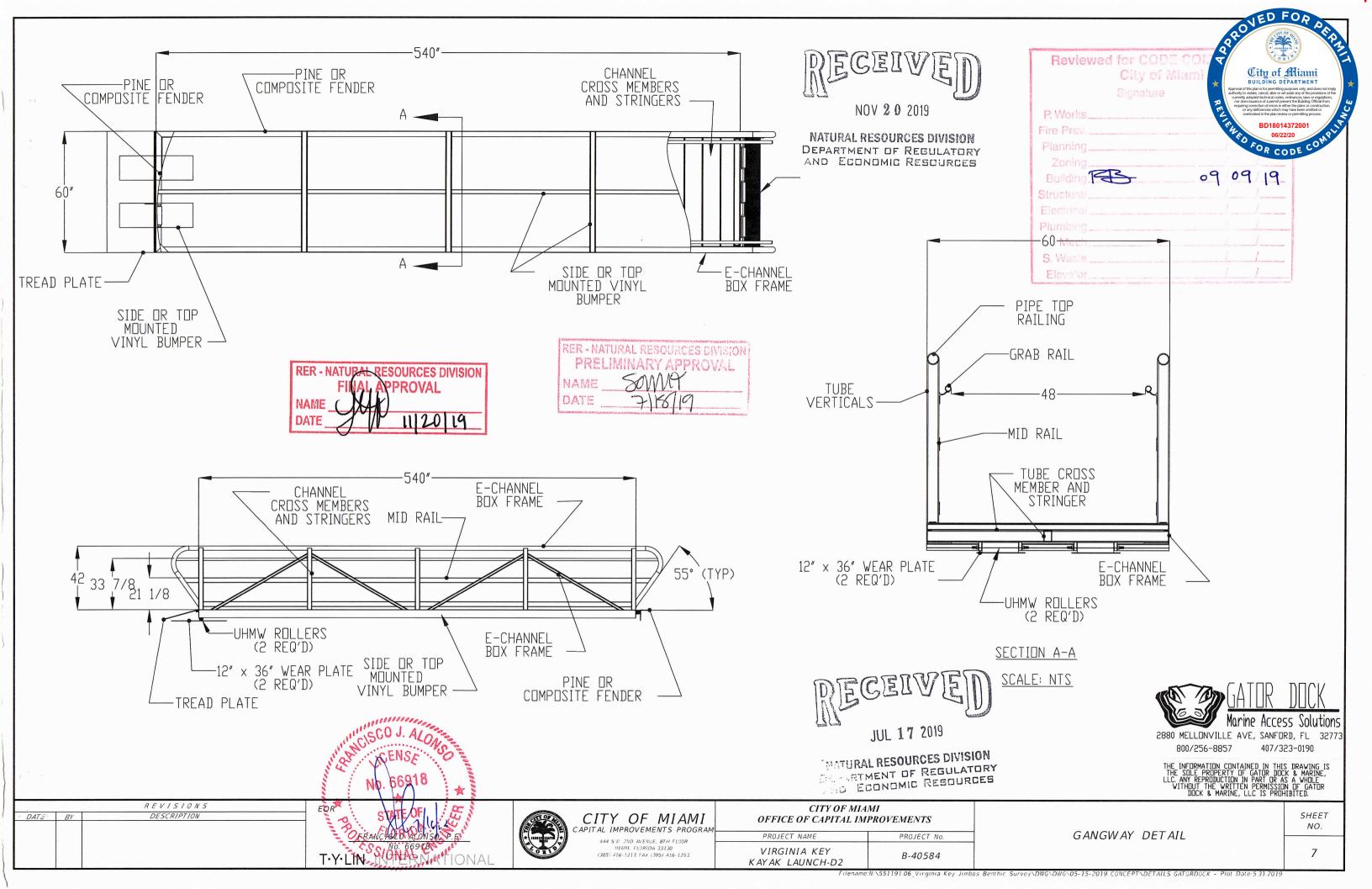
City of Miami







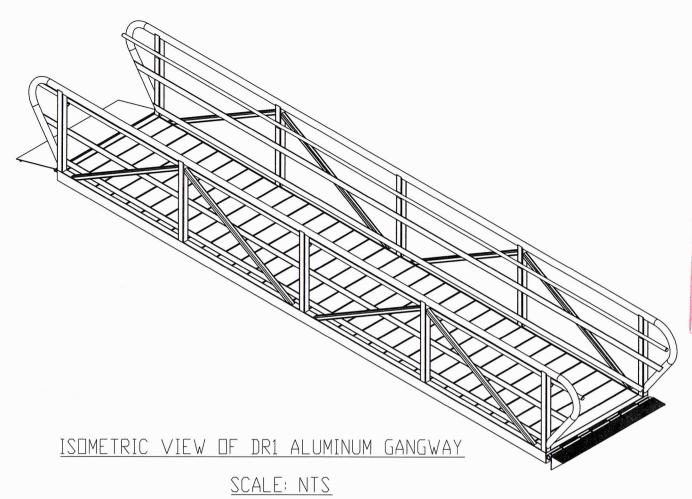


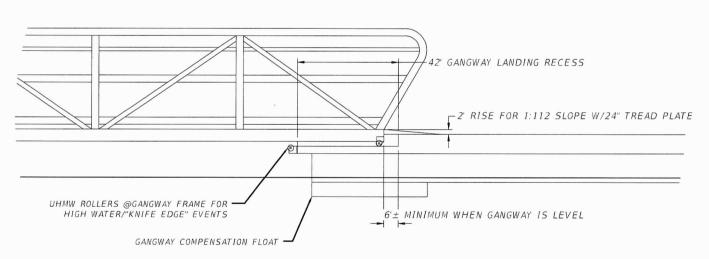


Reviewed for CODE COMPLIANCE City of Miami Date Signature P. Works_ Fire Prev. _ Planning. Zoning. 09/09/19 Building Structural. Electrical. Plumbing. S. Waste. Elevator

NOV 2 0 2019

NATURAL RESOURCES DIVISION DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES





Reviewed for CODE CORNE City of Miami

P. Works

S. Waste.

Elevator.

NATURAL RESOURCES DIVISION DEPARTMENT OF REGULATORY
AND ECONOMIC RESOURCES

RER - NATURAL RESOURCES DIVISION





City of Miami

2880 MELLONVILLE AVE, SANFORD, FL 32773 800/256-8857

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DATE BY	DESCRIPTION	- Francisco
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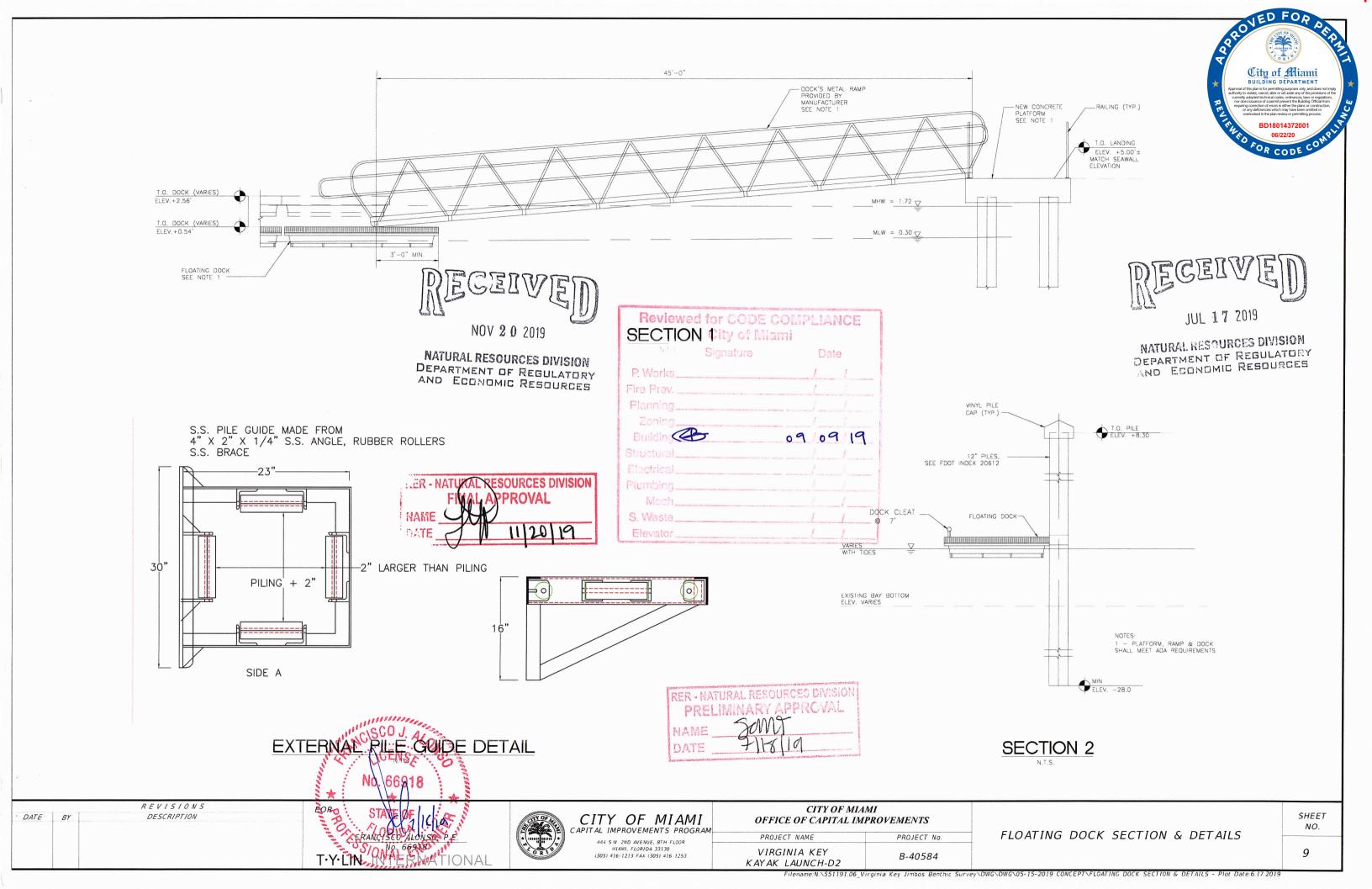
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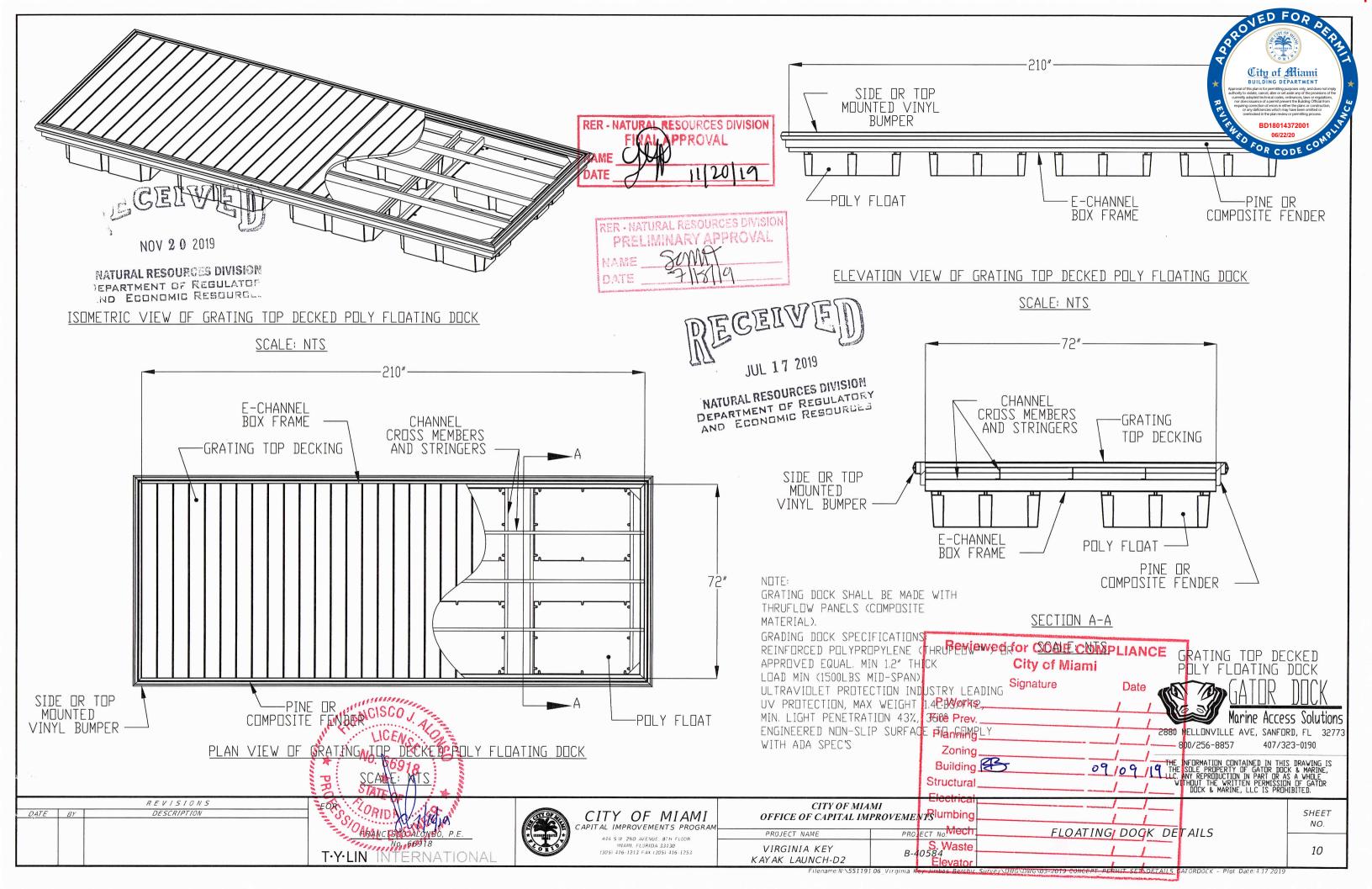
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PROJECT NAME	PROJECT No.
VIRGINIA KEY KAYAK LAUNCH-D2	B-40584

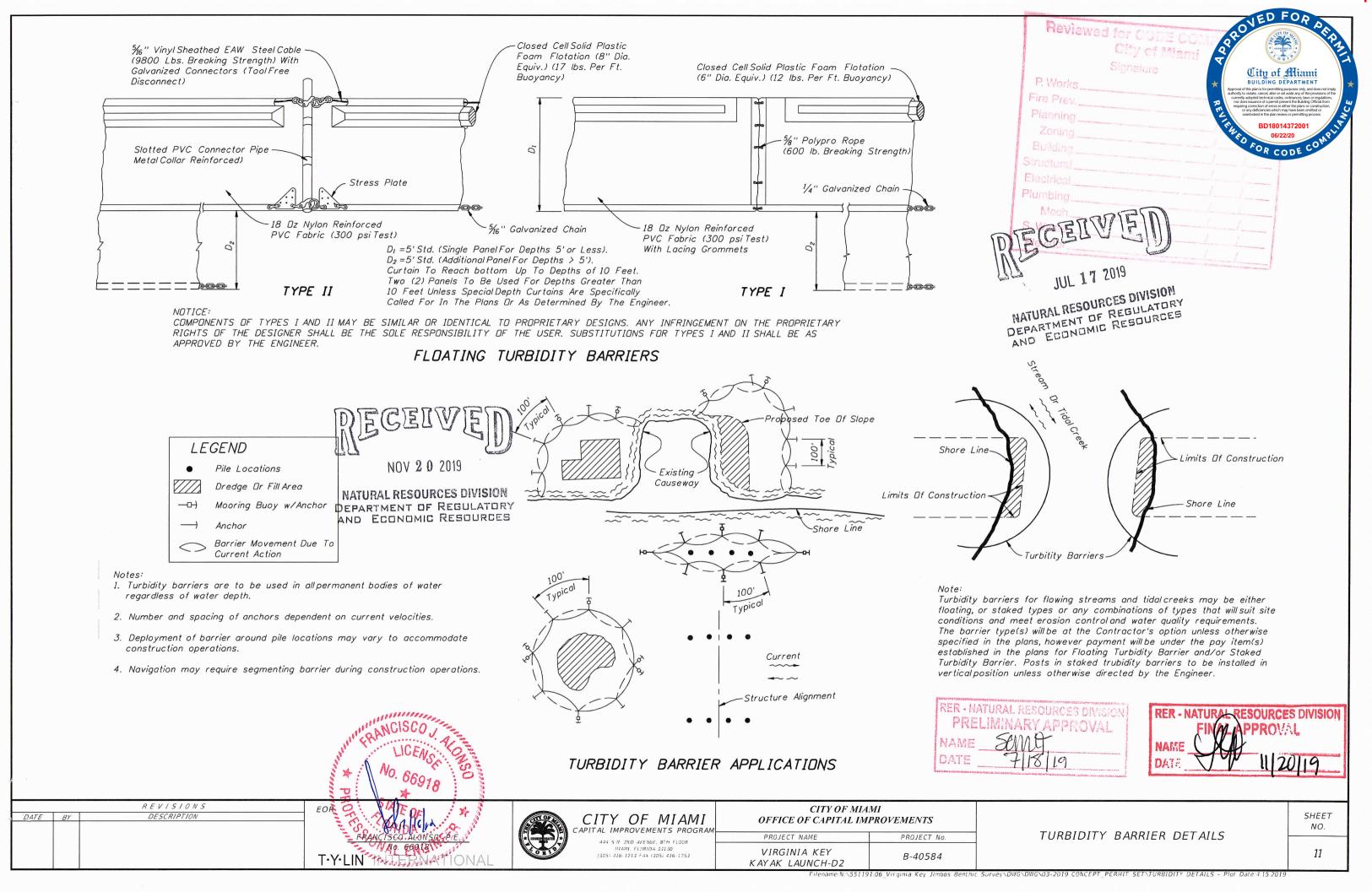
GANGWAY DETAIL

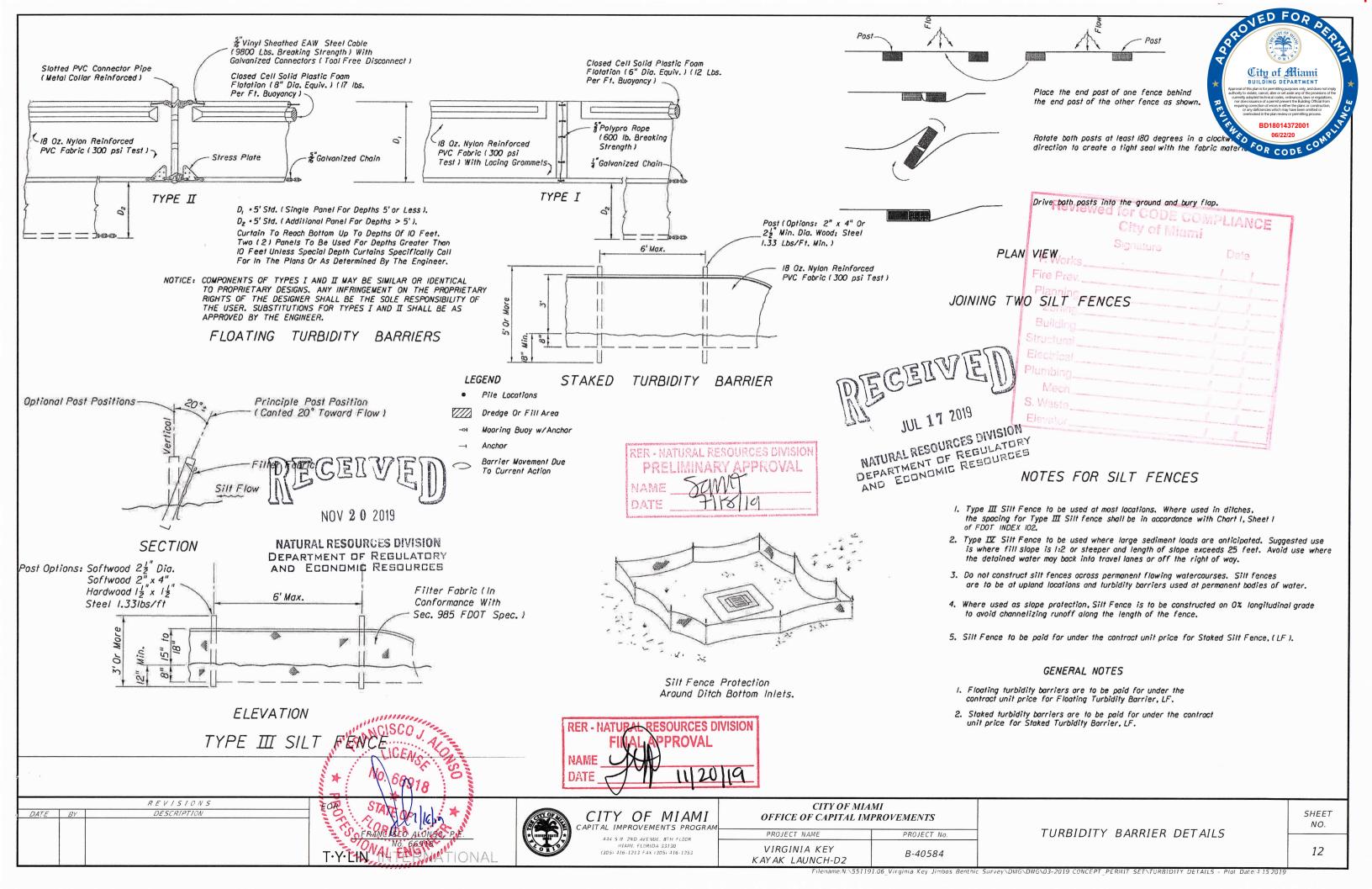
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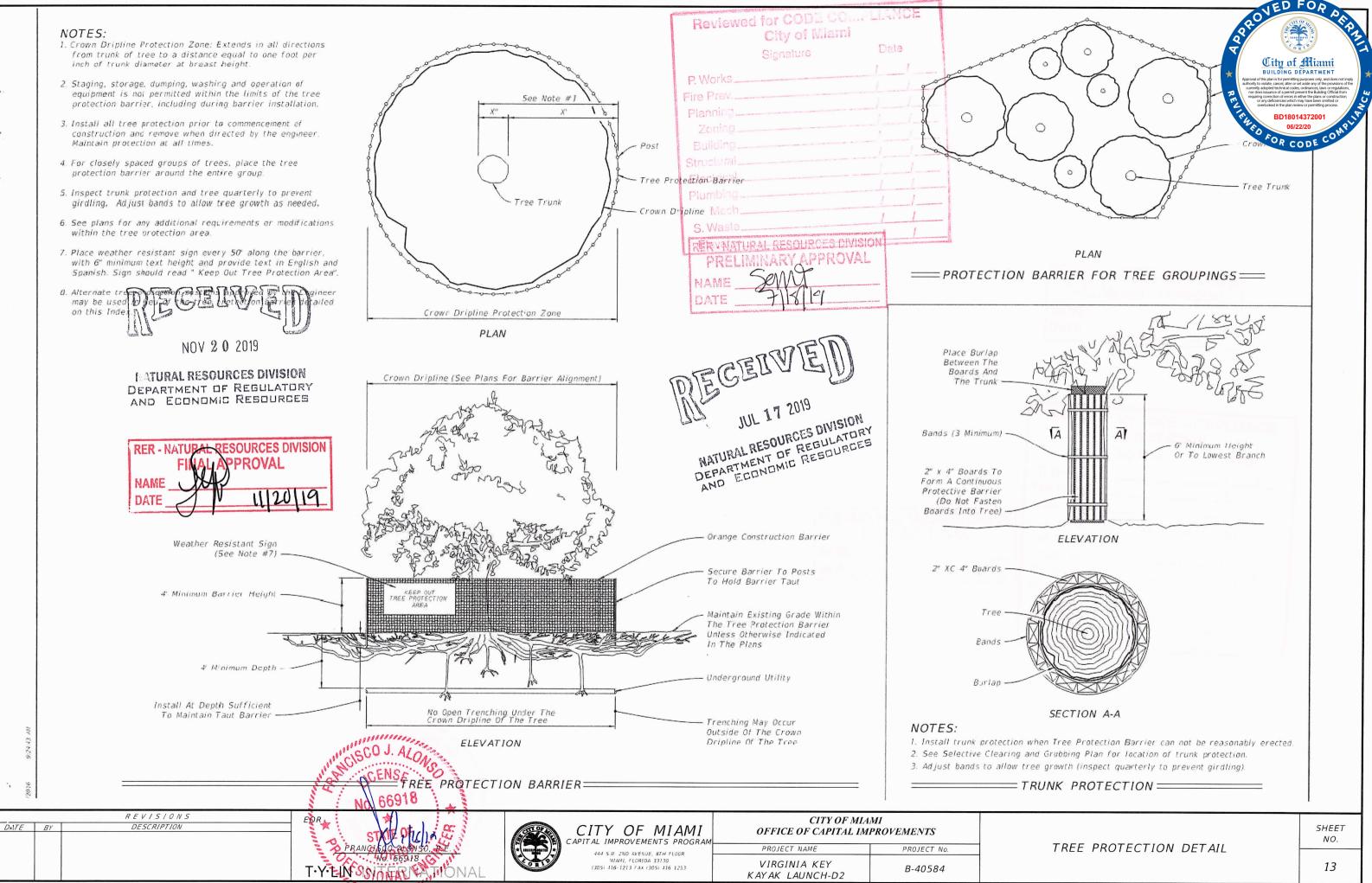
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CITY OF MIAMI



06-02-2020

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LP-03	TREE DISPOSITION PLAN WITH TREE PROTECTION FENCE LAYOUT
LP-04	TREE DISPOSITION PLAN WITH PROPOSED IMPROVEMENTS
LP-05	PLANT LIST AND MITIGATION CALCULATIONS
LP-06	PLANTING PLAN
LP-07	PLANTING DETAILS
LP-08	PLANT CORRECTION DETAILS
LP-09	SOIL DECOMPACTION DETAILS
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LP-11	TREE PROTECTION NOTES
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LP-14 to LP-16	LANDSCAPE SPECIFICATIONS



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THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

LANDSCAPE PLANS LANDSCAPE ARCHITECT OF RECORD:

LETICIA FERNANDEZ-BERAUD, RLA FL. RLA NO.: 6666730

FERNANDEZ-BERAUD, INC. 717 PONCE DE LEON BLVD., SUITE 223 CORAL GABLES, FL 33134 PHONE No. (305) 567-0110 CA No.: LC26000233

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

		REVISIONS	LAR			
DATE	BY	DESCRIPTION	Fernandez-Beraud, Inc.			
			Landscape Architecture & Planning			
			<u>LETICIA FERNANDEZ-BERAUD, RLA</u> LA 6666730			



CITY OF MIA OFFICE OF CAPITAL IM	
PROJECT NAME	PROJECT No.
VIRGINIA KEY KAYAK LAUNCH-D2	B-40584

TITLE SHEET AND
INDEX OF LANDSCAPE PLANS

SHEET NO.

Tree # Survey and Tree Disp. Plan	Tree # Certif. Arborist Report	Botanical Name	Common Name	DBH (in)	Height (ft) Sp	read (ft)	Condition	С	isposition	No Mitigation Required (Category 1 Invasive)	Tree DBH Remove/ Mitigate	Palms-Remove & MITIGATE (1 Palm=1 Tree)
55		Syagrus romanzoffiana	Queen Palm	10	25	25	Acceptable condition / Protect from damage	Remain				
56		Washingtonia robusta	Washington Palm	12	45	20	Acceptable condition / Protect from damage	Remain				
57		Washingtonia robusta	Washington Palm	12	40	20	Acceptable condition / Protect from damage	Remain				
58		Washingtonia robusta	Washington Palm	12	25	10	Acceptable condition / Protect from damage	Remain				
59		Washingtonia robusta	Washington Palm	12	40	20			1	Remove		1
60		Washingtonia robusta	Washington Palm	12	25	10	Acceptable condition / Protect from damage	Remain				
61	#13	Washingtonia robusta	Washington Palm	12	25	10	In fair health / With trunk damage			Remove		1
62		Washingtonia robusta	Washington Palm	12	40	10	In poor to fair shape / With bark damage / Potentially hazardous			Remove		1
63		Washingtonia robusta	Washington Palm	12	40	10	Acceptable condition / Protect from damage	Remain				
64	#26	Washingtonia robusta	Washington Palm	12	35	20	Acceptable condition / Protect from damage	Remain				
65	#9	Cocos nucifera	Coconut Palm	10	25	20	In fair health / With trunk damage / In the way of construction	Keman		Remove		1
		,					In fair health / Trunk is in poor shape / With some degree of nutrient					_
66	#10	Cocos nucifera	Coconut Palm	10	25	20	deficiencies			Remove		1
67	#28	Calophyllum sp.	Calophyllum	8	15	15	Good condition / Protect from damage	Remain				
69		Cocos nucifera	Coconut Palm	8	30	20	Acceptable condition / Protect from damage	Remain				
70		Caryota mitis	Fishtail Palm	4	20	5	Acceptable condition / Protect from damage	Remain				
71		Coccoloba uvifero	Sea Grape	20	35	30	Acceptable condition / Protect from damage	Remain				
77		Ficus benghalensis	Banyan (Ficus)	50	40	50	Acceptable condition / Protect from damage	Remain				
78		Chrysophyllum oliviforme	Satin Leaf	10	20	20	With poor structure / In poor condition			Remove	10	
79		unknown	Unknown	8	25	25	Acceptable condition / Protect from damage	Remain				
80		Calophyllum sp.	Calophyllum	8	25	25	Acceptable condition / Protect from damage	Remain				
81		Conocarpus erectus	Green Buttonwood	10	20	20	In poor condition / Poor structure / With insect damage	Heman		Remove	10	
82	#29	Calophyllum sp.	Calophyllum	8	20	10	Acceptable condition / Protect from damage	Remain		Remove	10	
02	#23	сиюрнунант эр.	Calophynam		20	10	in fair health overall but poor shape. Much of tree is in water due to	Neman				
84	#11	Coccoloba uvifero	Sea Grape	20	30	30	poor planting location			Remove	20	
85		Thespesia populnea	Seaside Mahoe	14	30	25	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
86	#15	Thespesia populnea	Seaside Mahoe	14	30	25	Category 1 - invasive exotic (www.rieppc.org) Category 1 - invasive exotic (www.rieppc.org)			Remove x		
89	#13	Musa acuminata	Banana Cluster	4	12	5	Acceptable condition / Protect from damage	Remain		iterriove x		
90		Musa acuminata		4	12	5						
			Banana Cluster			50	Acceptable condition / Protect from damage	Remain		Domous		
91		Casuarina equisetifolia	Australian Pine	24	60		Category 1 - invasive exotic (www.fleppc.org)			Remove x		
92	(140	Casuarina equisetifolia	Australian Pine	24	60	50	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
93		Casuarina equisetifolia	Australian Pine	18	40	30	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
94		Casuarina equisetifolia	Australian Pine	18	40	30	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
95	#1	Casuarina equisetifolia	Australian Pine	18	40	30	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
96	#2	Casuarina equisetifolia	Australian Pine	10	25	30	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
97	#3		Australian Pine	18	40	30	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
98		Casuarina equisetifolia	Australian Pine	18	55	45	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
99		Casuarina equisetifolia	Australian Pine	18	55	45	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
100	#6	Casuarina equisetifolia	Australian Pine	18	55	45	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
100a		Casuarina equisetifolia	Australian Pine	18	55	45	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
100b	#7	Conocarpus erectus	Green Buttonwood	10	15	10	In poor condition / In the way of construction			Remove	10	
101	#4	Casuarina equisetifolia	Australian Pine	18	55	45	Category 1 - invasive exotic (www.fleppc.org)		l l	Remove x		
102	#8	Casuarina equisetifolia	Australian Pine	12	40	30	Category 1 - invasive exotic (www.fleppc.org)		I	Remove x		
103		Casuarina equisetifolia	Australian Pine	38	70	40	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
104		Casuarina equisetifolia	Australian Pine	10	30	20	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
105		Unknown	Unknown	6	15	10	In acceptable condition / Very close to an Australian Pine / In the way			Remove	6	
							of construction			Remove		
106		Casuarina equisetifolia	Australian Pine	38	70	40	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
107		Thespesia populnea	Seaside Mahoe	10	25	20	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
108	#16	Thespesia populnea	Seaside Mahoe	10	25	20	Category 1 - invasive exotic (www.fleppc.org)			Remove x		
109	#17	Coccoloba uvifero	Sea Grape	8	25	20	In bad condition / Fallen tree with exposed roots / In the way of			Remove	8	
	111/	-	·				construction			nemove .		
110		Coccoloba diversifolia	Pigeon Plum	8	25	20	With poor structure / In the way of construction			Remove	8	
111	#12	Avicennia germinans	Black Mangrove	12	15	10	In good health / In poor planting area / Leaning on the water / In the					
	., 22	germinans	a sin mangiove				way of construction					
							TOTAL TREE DBH TO REMOVE AND	TO MIT	ICATE /	nchoc)	72	5
							TOTAL TREE DBIT TO REINIO VE AIVE	I O IVIII	IOATE (I	iiches)	12	

Approach this plan is to permit any other providers and the providers of t

NOTE:
TREE # 111 (BLACK MANGROVE) IS TO BE REMOVED UNDER THE DERM CLASS I PERMIT OBTAINED FOR THIS PROJECT.

REVISIONS
DESCRIPTION

LAR
Fernandez-Berau

DATE BY

Fernandez-Beraud, Inc.
Landscape Architecture & Planning

LETICIA FERNANDEZ-BERAUD, RLA
LA 6666730



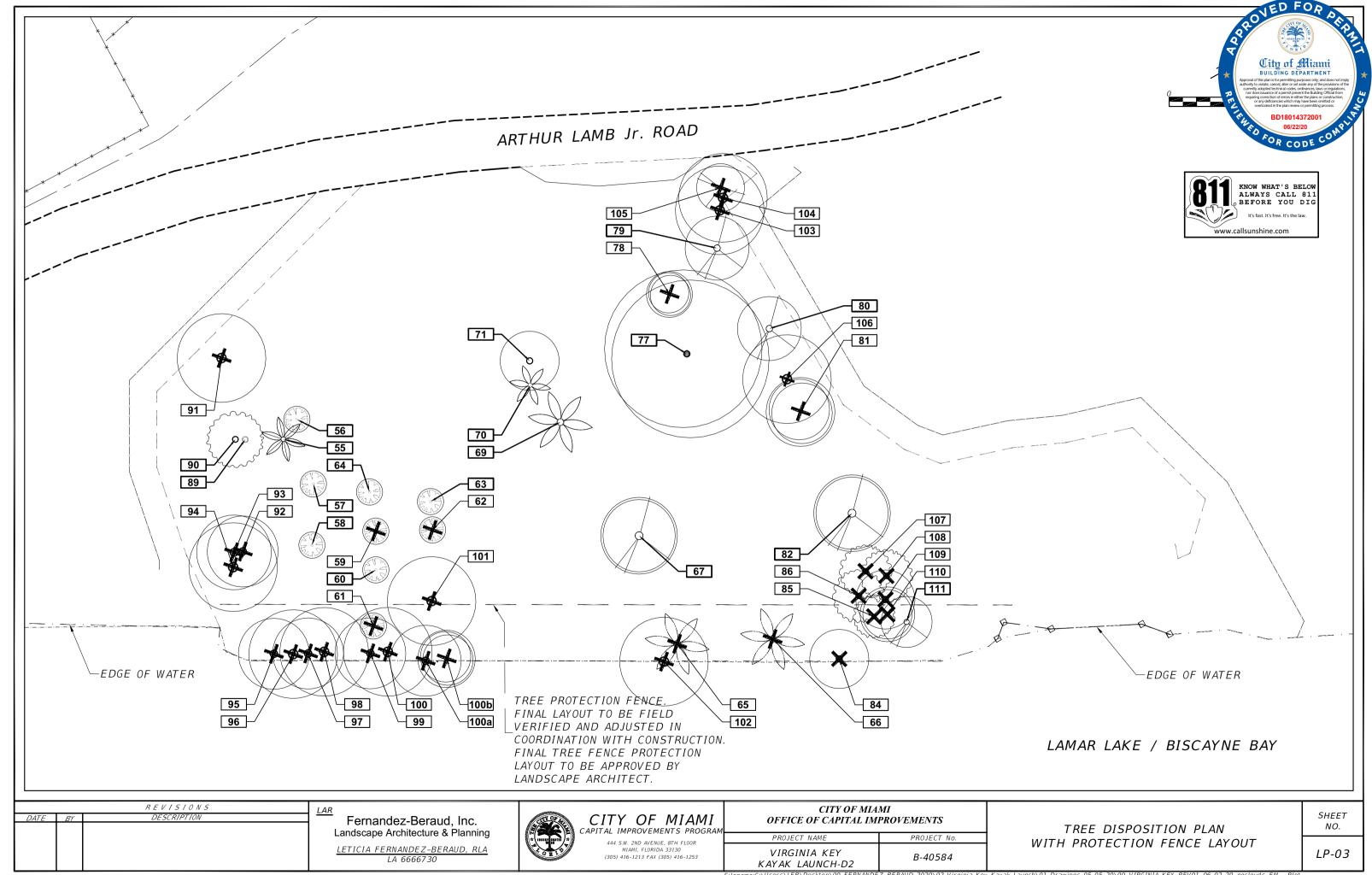
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PROJECT NAME	PROJECT No.

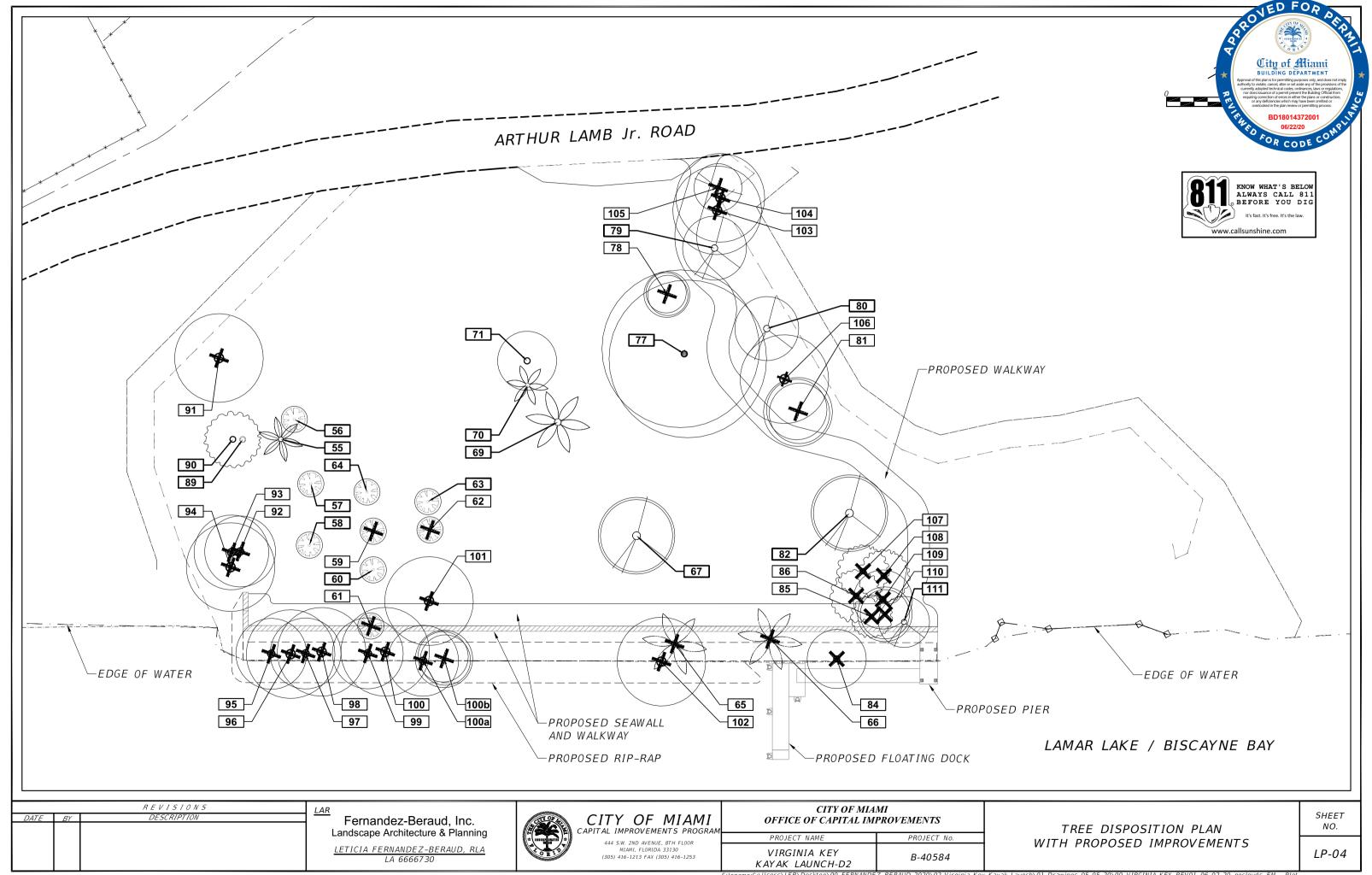
B-40584

VIRGINIA KEY

TREE DISPOSITION LIST

SHEET NO.





PLANT LIST (06-02-2020) VIRGINA KEY - KAYAK LAUNCH-2 - City of Miami **TREES** MATURE NATIVE TOLERANT QUANT. SYMBOL SCIENTIFIC NAME COMMON NAME SPACING NOTES REQUIREMENT PLANT SIZE WIND F SIZE (Height x Width) (FEET FOR CODE CO YES 30 Gal (or B&B) 40' x 35' As Shown 2" min. DBH; 12' o.a. min.; 6' spread min. / single, strong & straight leader; symetrical and full canopy; Florida #1 or better LOW Highest BS Bursera simaruba **Gumbo Limbo** YES 30 Gal (or B&B) As Shown LOW 30' x 25' 2" min. DBH; 12' o.a. min.; 6' min. spread / single leader; symetrical and full canopy; Florida #1 or better Medium-High CU Coccoloba uvifera Seagrape YES 30 Gal (or B&B) As Shown 2" min. DBH; 12' o.a. min.; 6' min. spread / single, strong & straight leader; symetrical and full canopy; Florida #1 or better. LOW 35'x25' CE Conocarpus erectus Highest Green Buttonwood FC Ficus citrifolia Shortleaf fig YES 30 Gal (or B&B) As Shown 2" min. DBH; 12' o.a. min.; 6' min. spread / single, strong & straight leader; symetrical and full canopy; Florida #1 or better

TREE MITIGATION CALCULATIONS:

- 1) TOTAL TREE DBH REMOVED: 72" / MITIGATION REQUIREMENTS: 24 TREES TOTAL (2" DBH X 6' SPREAD IN CANOPY X 12' HEIGHT MINIMUM).
- 2) TOTAL PALM TREES REMOVED: 5 PALMS / MITIGATION REQUIREMENTS: 5 TREES TOTAL (2" DBH X 6' SPREAD IN CANOPY X 12' HEIGHT MINIMUM) (1 TREE TO MITIGATE 1 PALM).

TOTAL MITIGATION TREES REQUIRED: 29 TREES (2" DBH X 6' SPREAD IN CANOPY X 12' HEIGHT MINIMUM).

TOTAL MITIGATION TREES PROVIDED: 29 TREES (2" DBH X 6' SPREAD IN CANOPY X 12' HEIGHT MINIMUM).

3) TOTAL NUMBER OF SPECIES: 4 TOTAL, ALL OF THE TREES BEING SOUTH FLORIDA NATIVE.

NOTES:

Total new trees

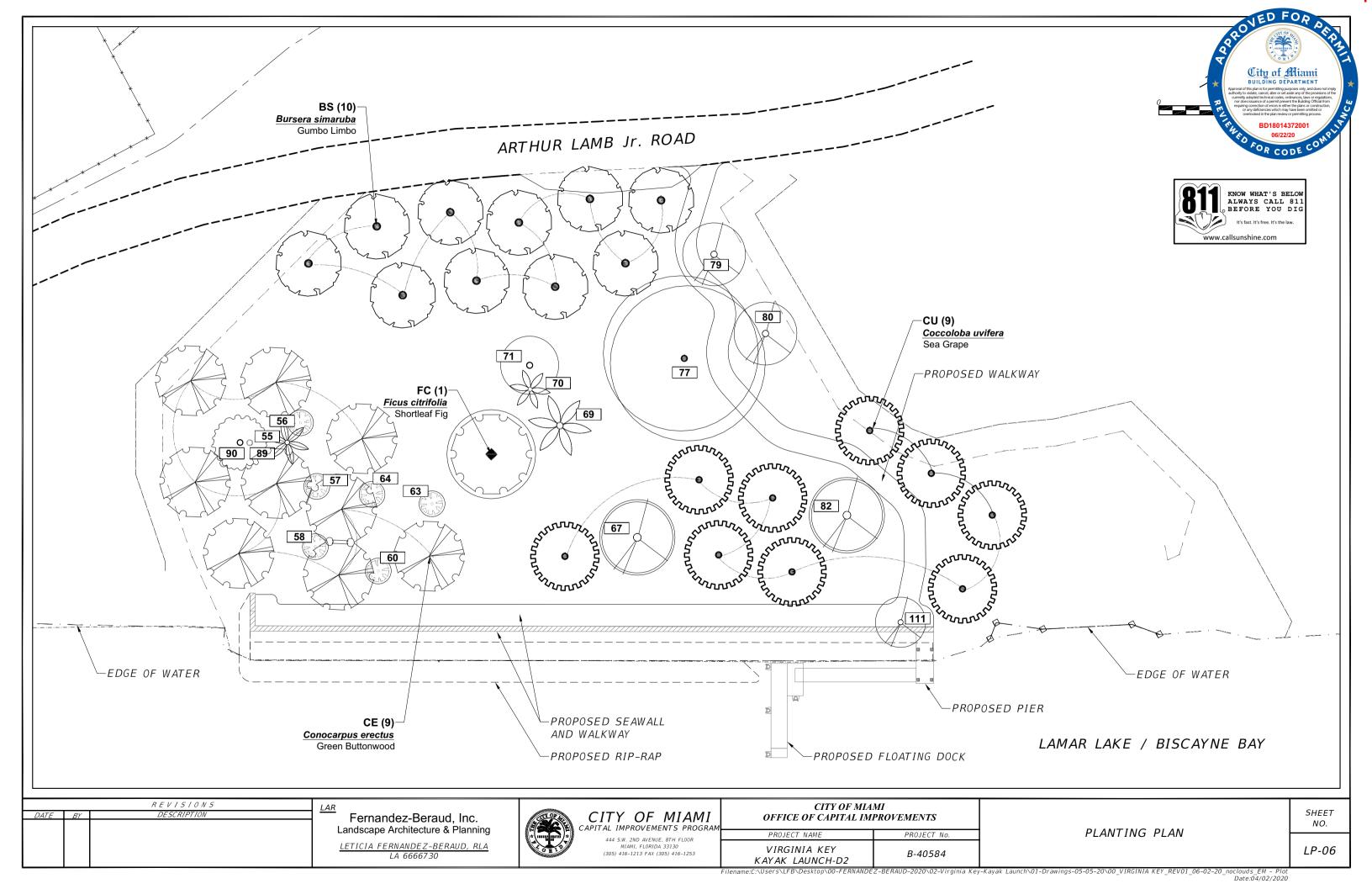
- 1) PLANS SUPERCEDE TABULATIONS. LANDSCAPE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL PLANT QUANTITIES AND BUILD AS PER PLANS, EVEN IF THERE IS A DISCREPANCIES BETWEEN PLANT LIST QUANTITIES AND PLANS. IN CASE OF DISCREPANCIES, NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.
- 2) ALL PLANT SPECIFICATIONS IN TERMS OF GALLONAGE, HEIGHT, CANOPY, CALIPER, AND, DBH SHALL BE FULFILLED, EVEN THOUGH IF IT MEANS TO SURPASS SOME OF THOSE SPECIFICATIONS.
- 3) ALL PLANT LAYOUT SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. LANDSCAPE CONTRACTOR IS RESPONSIBLE TO CONTACT LANDSCAPE ARCHITECT AT LEAST 10 BUSINESS DAYS PRIOR TO INSTALLATION, IN ORDER TO REVIEW PLANTING LAYOUT.
- 4) PRIOR TO CONSTRUCTION, LANDSCAPE CONTRACTOR IS RESPONSIBLE TO SUBMIT TO THE LANDSCAPE ARCHITECT UNIT PRICES OF ALL LANDSCAPE MATERIAL AND IRRIGATION SPECIFIED.
- 5) PRIOR TO CONSTRUCTION, LANDSCAPE CONTRACTOR IS RESPONSIBLE TO SUBMIT TO THE LANDSCAPE ARCHITECT PHOTOGRAPHS OF ALL PLANT MATERIAL, SHOP DRAWINGS OF LANDSCAPE EDGING (IF REQUIRED), HORTICULTURAL SOIL ANALYSIS (IF REQUIRED AS PER SPECIFICATIONS), OR ANY OTHER REQUIRED SUBMITTAL AS PER SPECIFICATIONS.
- 6) ALL PLANT MATERIAL SHALL MEET OR EXCEED ALL SIZE REQUIREMENTS.
- 7) REFER TO TREE CORRECTION DETAILS. ROOT SHAVING AND PLANT CORRECTIONS WILL BE REQUIRED.
- 9) ALL NEWLY INSTALLED PLANTING MATERIAL WILL BE MAINTAINED IN A CONDITION THAT MEETS OR EXCEEDS FLORIDA GRADE #1 AND HAS A MINIMUM OF ONE (1) YEAR REPLACEMENT GUARANTEE.
- 10) EXISTING SUBSURFACE MATERIALS MAY INCLUDE ROCK FORMATIONS WITH HIGH RESISTANCE TO EXCAVATION. SPECIAL EQUIPMENT AND BREAKING TOOLS WILL BE REQUIRED AS NECESSARY TO EXCAVATE THE SUBSURFACE MATERIAL CONSISTING OF ROCK FORMATIONS, AND WILL BE CONSIDERED AS PART OF THE CONSTRUCTION COST AND AS PART OF THIS CONTRACT.

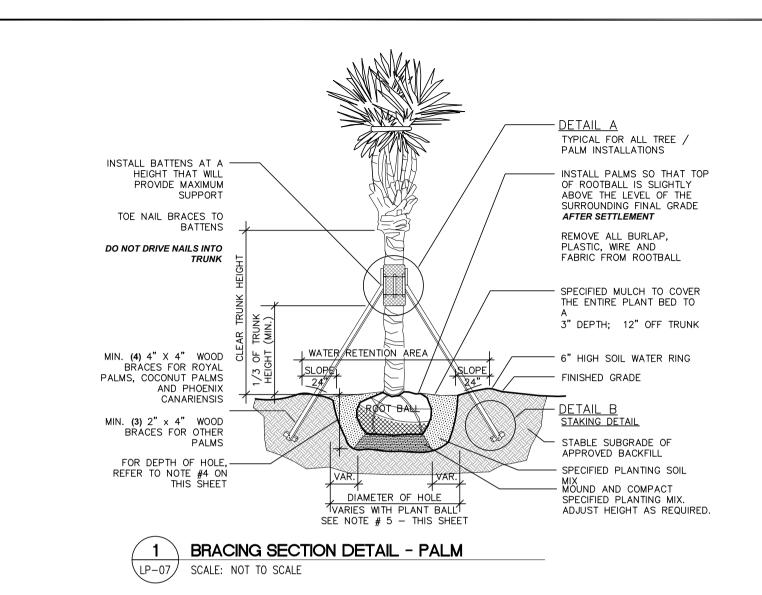
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Fernandez-Beraud, Inc.	DESCRIPTION	BY	DATE
Landscape Architecture & Planning			
LETICIA FERNANDEZ-BERAUD, RLA			
LA 6666730			

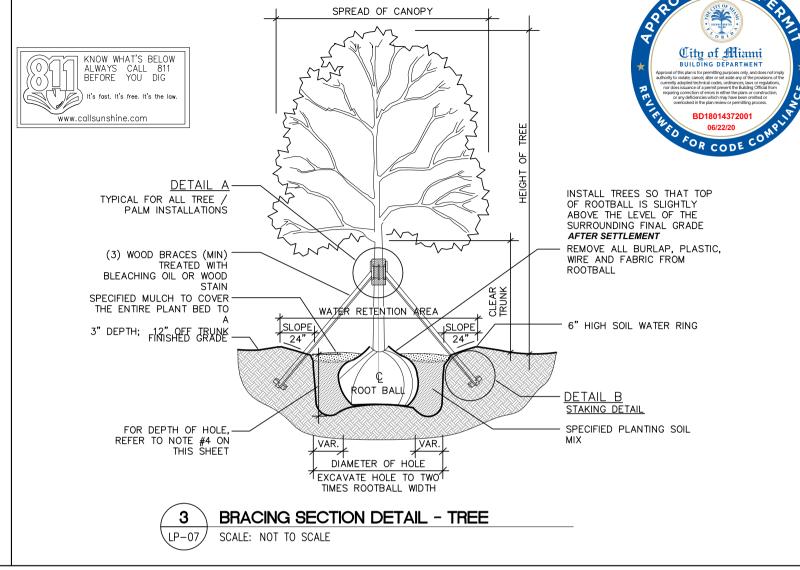


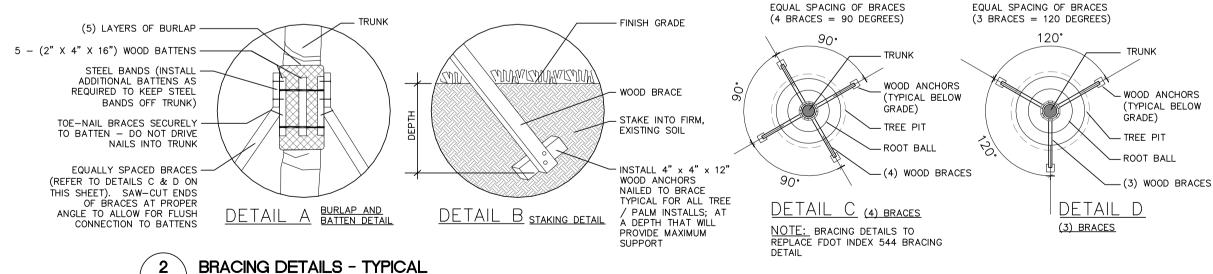
CITY OF MIAMI OFFICE OF CAPITAL IMPROVEMENTS			
PROJECT NAME	PROJECT No.		
VIRGINIA KEY KAYAK LAUNCH-D2	B-40584		

PLANT LIST AND MITIGATION CALCULATIONS SHEET NO.









NOTES:

- 1) SECURE BATTENS WITH 2-3/4" HI CARBON STEEL BANDS TO HOLD BATTENS IN PLACE DURING PLANTING PROCESS.
- 2) DO NOT NAIL BATTENS TO PALM. HEIGHT OF BATTENS SHALL BE LOCATED IN RELATION TO THE THE PALM HEIGHT FOR ADEQUATE BRACING.

3) PLANT MATERIAL SHALL BE PLANTED AT THEIR NATURAL AND ORIGINAL PLANTING LEVEL PRIOR TO THEIR PLACEMENT ON THIS PROJECT OR JOB. WHEN LOWERED INTO THE HOLE, THE PLANTS SHALL REST ON THE PREPARED HOLE BOTTOM SUCH THAT THE SURFACE ROOTS AT THE TOP OF THE ROOTBALL ARE LEVEL OR SLIGHTLY ABOVE THE LEVEL OF THE SURROUNDING FINAL GRADE

4) **DEPTH OF HOLE** SHALL BE EQUAL TO THE ROOTBALL DEPTH PLUS 12 INCHES, UNLESS FURTHER DEPTH IS REQUIRED TO PROVIDE ADEQUATE DRAINAGE.

5) DIAMETER OF HOLE SHALL BE AS FOLLOWS:

ROOTBALL DIAMETER HOLE DIAMETER 12" OR LESS BALL DIA. + 12" 13" TO 24" BALL DIA. + 18" 25" TO 60" BALL DIA. + 24" 61" OR GREATER BALL DIA. + 36'

6) DIAMETER OF HOLE FOR TREES SHALL BE TWO TIMES (2x) THE WIDTH OF THE

7) INSTALL THREE (3) 2 x 4 INCH BRACES ON TREES/PALMS WITH OVER 3 INCH CALIPER AND FOUR (4) 4 x 4 INCH BRACES ON TREES/PALMS OVER 5 INCH CALIPER: OR BRACE AS NOTED OTHERWISE

REVISIONS DATE BY DESCRIPTION

SCALE: NOT TO SCALE

Fernandez-Beraud, Inc. Landscape Architecture & Planning

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PROJECT NAME	PROJECT No.
VIRGINIA KEY KAYAK LAUNCH-D2	B-40584

PLANTING DETAILS

SHEET NO.

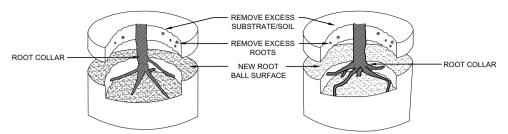
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KATAK LAUNCI-D2

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Date:04/02/2020

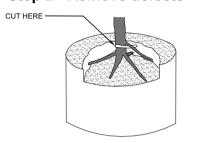
VED FOR

Step 1 - Remove substrate over root collar



TREE PLANTED TOO DEEPLY IN ROOT BALL. REMOVE EXCESS SUBSTRATE AND ROOTS TO MEET ROOT INSPECTION DETAIL TREE PLANTED TOO DEEPLY IN ROOT BALL. REMOVE EXCESS SUBSTRATE AND ROOTS TO MEET ROOT INSPECTION DETAIL.

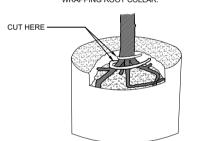
Step 2 - Remove defects

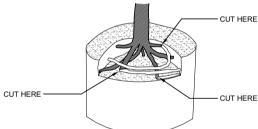


CUT HERE

FIVE STRUCTURAL (LARGE) ROOTS SHOWN IN BLACK. REMOVE STRUCTURAL ROOT (WHITE)

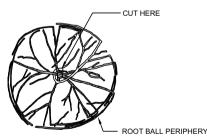


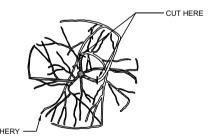




SIX STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE ROOTS (WHITE) GROWING OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.

SEVEN STRUCTURAL ROOTS SHOWN IN BLACK. REMOVE STRUCTURAL ROOTS (WHITE) GROWING AROUND OR OVER ROOT COLLAR BY CUTTING THEM JUST BEFORE THEY MAKE AN ABRUPT TURN.



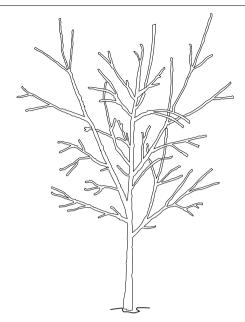


CUT STRUCTURAL ROOT JUST BEFORE IT MAKES ABRUPT TURN. PRUNING CUT SHOULD BE MADE TANGENT (PARALLEL) TO THE TRUNK.

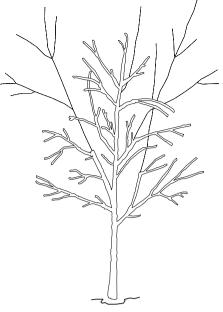
CUT STRUCTURAL ROOTS JUST BEFORE THEY MAKE ABRUPT TURN BY CUTTING TANGENT (PARALLEL)

NOT TO SCALE

REFER TO NOTE #1 (THIS SHEET)



BEFORE PLANTING, TREE HAS THREE CODOMINANT STEMS. THE TWO THAT COMPETE WITH THE ONE IN THE CENTER SHOULD BE PRUNED TO SUPRESS THEIR GROWTH.



TWO COMPETING STEMS WERE
REDUCED SUBSTANTIALLY, IN THIS CASE
REMOVING ABOUT 70% OF THEIR
FOILAGE USING REDUCTION CUTS.

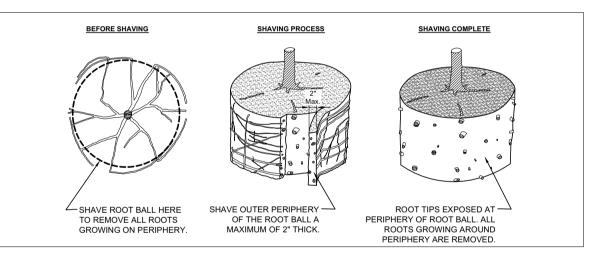


AFTER PRUNING, TREE HAS ONLY ONE

CROWN CORRECTION DETAIL

NOT TO SCALE

REFER TO NOTE #2 (THIS SHEET)



NOTE # 2

- 1- ALL TREES SHOWN ARE REJECTABLE UNLESS THEY UNDERGO RECOMMENDED TREATMENT.
- 2- TREE SHALL MEET CROWN OBSERVATION DETAIL FOLLOWING CORRECTION.

NOTE # 3

- 1- SHAVING TO BE CONDUCTED USING A SHARP BLADE OR HAND SAW ELIMINATING NO MORE THAN NEEDED TO REMOVE ALL ROOTS ON THE PERIPHERY OF ROOT BALL.
- 2- SHAVING CAN BE PERFORMED JUST PRIOR TO PLANTING OR AFTER PLACING IN THE HOLE.

ROOT BALL SHAVING - CONTAINER

NOT TO SCALE

REFER TO NOTE #3 (THIS SHEET)

NOTE # 1

- 1- ALL TREES TO BE INSTALLED WILL BE REJECTABLE UNLESS THEY UNDERGO RECOMMENDED CORRECTION.
- 2- FIRST STEP 1, THEN STEP 2. ROOTS AND SOIL MAY BE REMOVED DURING THE CORRECTION PROCESS; SUBSTRATE/SOIL SHALL BE REPLACED AFTER CORRECTION HAS BEEN COMPLETED.
- 3- TREES SHALL MEET ROOT OBSERVATIONS DETAIL FOLLOWING CORRECTION.
- 4- SMALL ROOTS (1/4" OR LESS) ON THE PERIPHERY OF THE ROOT BALL ARE COMMON WITH CONTAINER PLANT PRODUCTION. THESE SMALL ROOTS ARE NOT DEFINED AS "DEFECTS" AND CAN BE ADDRESSED AT THE TIME OF INSTALLATION (SEE ROOT BALL SHAVING CONTAINER DETAIL).

ROOT CORRECTION DETAIL - CONTAINER

R E V I S I O N S

DATE BY DESCRIPTION

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Landscape Architecture & Planning

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CITY OF MIAMI OFFICE OF CAPITAL IMPROVEMENTS

PROJECT NAME PROJECT No.

VIRGINIA KEY

KAYAK LAUNCH-D2

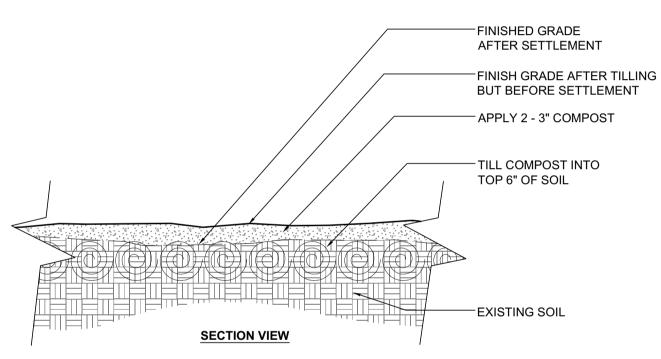
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PLANT CORRECTION DETAILS

SHEET NO.

LP-08

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1 - SEE PLANTING SOIL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

MODIFIED EXISTING SOIL - COMPACTED SURFACE SOIL

SCALE: NOT TO SCALE

FRACTURE SOIL US FOR CODE DIG INTO THE SOIL AND CONFOST BEFORE STARTING SOIL LIFT SOIL AND DROP IN PLACE TO FRACTURING APPLY 2 - 3" FRACTURE COMPACTION. REPEAT OF COMPOST OVER OVER ENTIRE PLANTING AREA EXISTING GRADE 2'± EXISTING GRADE AFTER PAVEMENT. DO NOT FRACTURE **ROUGH GRADING** SOIL ADJACENT TO PAVEMENT STEP ONE APPLY 3 - 4" OF COMPOST AND REQUIRED CHEMICAL ADJUSTMENT PRIOR TO FINISH GRADE ADJACENT FINAL TILLING TO PAVING SHALL BE 1 - 2" BELOW PAVEMENT SURFACE PROPOSED FINISHED **GRADE AFTER SETTLING** 24 **STEP TWO** NOTE:

- 1 FOR PLANTING AREAS NARROWER THAN 8 FEET, REDUCE THE DISTANCE BETWEEN PAVING AND SOIL FRACTURING FROM 2 FOOT TO 1 FOOT
- 2 SEE PLANTING SOIL SPECIFICATION FOR ADDITIONAL REQUIREMENTS



MODIFIED EXISTING SOIL - COMPACTED SUB SOIL (FRACTURING)

SCALE: NOT TO SCALE

KAYAK LAUNCH-D2

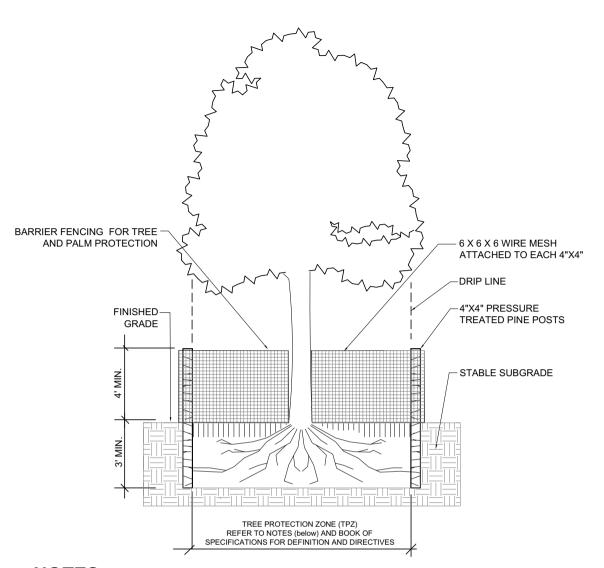
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dez-Beraud, Inc. Architecture & Planning		CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAI
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	Victoria	(205) 416 1212 EAV (205) 416 1252

	CITY OF MIAMI OFFICE OF CAPITAL IMPROVEMENTS		
PROJECT NAME	PROJECT No.		
VIRGINIA KEY	B-40584		

SOIL DECOMPACTION DETAILS

SHEET NO.



NOTES:

- THIS TREE AND PALM FENCE PROTECTION DETAIL IS FOR ALL EXISTING TO REMAIN AND RELOCATED TREES AND PALMS WITHIN THE PROJECT LIMITS.
- The TPZ shall be defined as the area directly beneath the canopy of the tree, with a minimum diameter equal to or greater than:
 - a) Tree Canopy diameter; or,
 - b) 0.75 feet for each inch of trunk diameter, WHICHEVER NUMBER IS GREATER.

In some areas, groups or clusters of trees shall be designated as a TPZ, as directed by the Consulting Arborist and/or Landscape Architect. Each TPZ shall be delineated using barrier fencing as per detail shown above.

- Protection Fencing to go around the TPZ of all trees to remain and to be relocated.
- THE STANDARD ORANGE FLEXIBLE AND TEMPORARY FENCE WILL NOT BE ACCEPTABLE FOR THIS PROJECT. THE CONTRACTOR SHALL INSTALL TREE PROTECTION FENCES AS PER DETAIL SHOWN ABOVE.



TREE PROTECTION DETAIL

SCALE: NOT TO SCALE

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DATE	BY	DESCRIPTION	Fernandez-Beraud, Inc. Landscape Architecture & Planning	
			<u>LETICIA FERNANDEZ-BERAUD, RLA</u> LA 6666730	

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PROJECT NAME	PROJECT No.		
VIRGINIA KEY KAYAK LAUNCH-D2	B-40584		

TREE PROTECTION DETAIL

SHEET NO.

TREE PROTECTION GENERAL NOTES

- 1. All plans are incomplete without project specifications book.
- 2. All construction around existing trees to be field verified and adjusted accordingly with prior approval by Landscape Architect.
- 3. Before beginning work, the Contractor is required to meet with the Registered Consulting Arborist and the Landscape Architect at the site to review all work procedures, access routes, storage areas, and tree protection measures.
- 4. Fences shall be erected to protect trees to be preserved. Fences define a specific protection zone for each tree or group of trees. Fences are to remain until all site work has been completed. Fences may not be relocated or removed without the written permission of the Registered Consulting Arborist and the Landscape Architect.
- 5. Construction trailers, traffic and storage areas must remain outside fenced areas at all times.
- 6. All underground utilities and drain or irrigation lines shall be routed outside the tree protection zone. If lines must traverse the protection area, they shall be tunneled or bored under the tree. Prior to any digging the Contractor shall get approval from the Registered Consulting Arborist and the Landscape Architect.
- 7. No materials, equipment, spoil, or waste or washout water may be deposited, stored, or parked within the tree protection zone (fenced area).
- 8. Additional tree pruning required for clearance during construction must be performed by a qualified certified arborist and not by construction personnel. All pruning shall be approved by the Registered Consulting Arborist and the Landscape Architect.
- 9. Any herbicides placed under paving materials must be safe for use around trees and labeled for that use. Any pesticides used on site must be tree-safe and not easily transported by water.
- 10. If injury should occur to any tree during construction, it should be evaluated as soon as possible by the Registered Consulting Arborist and the Landscape Architect so that appropriate treatments can be applied.
- 11. Any grading, construction, demolition, or other work that is expected to encounter tree roots must be monitored by the Registered Consulting Arborist and/or the Landscape Architect.
- 12. Erosion control devices such as silt fencing, debris basins, and water diversion structures shall be installed to prevent siltation and/or erosion within the tree protection zone.
- 13. Any roots damaged during grading or construction shall be exposed to sound tissue and cut cleanly with a saw. Notify immediately the Registered Consulting Arborist and Landscape Architect about any root damage to existing trees.
- 14. If temporary haul or access roads must pass over the root area of trees to be retained, a road bed of 6 inches of mulch or gravel shall be created to protect the soil. The road bed material shall be replenished as necessary to maintain a 6-inch depth.

TREE PROTECTION GENERAL NOTES (cont.)

15. Spoil from trenches, basements, or other excavations shall not be placed within the tree prote 2 temporarily or permanently.

16. No burn piles or debris pits shall be placed within the tree protection zone. No ashes, debris, or ga dumped or buried within the tree protection zone.

- 17. Maintain fire-safe areas around fenced areas. Also, no heat sources, flames, ignition sources, or smoking is allowed near mulch or trees.
- 18. Protection of existing shrubs and groundcover; Prior to starting the demolition process and in order to avoid damaging existing shrubs and groundcover plant material, the landscape architect shall identify those shrubs and groundcover beds in the field that are to remain and to be protected from damage during the construction process. The Landscape Contractor is responsible for setting up the pre-construction meeting with the Landscape Architect in order to outline all protection areas. In the case that existing shrubs and groundcover that were identified to remain and to be protected are damaged due to construction activities, the Landscape Contractor are responsible for replacing them with same species and sizes, at no additional cost to the client.

ADDITIONAL NOTES

- 1. Invasive plant material removal: Remove invasive plant material as listed below and spray with herbicides as necessary, in order to prevent additional growth or sprouts after manual removal. The following is plant material that shall be removed as part of the contract:
 - a. Remove all Category 1 invasive trees, shrubs, vines and groundcover (including Brazilian Pepper, Mahoe, Lead Tree, Schefflera, etc., as per Florida Exotic Pest Plant Council Invasive Plant Lists); and,
 - b. Remove all vines on existing structures, fences and trees.

2. Mulch:

- a. Landscape Contractor is responsible to prepare mulch out of all native and non-invasive plant material that is to be removed. This mulch is to be installed as landscape mulch rings and landscape beds in all existing trees and palms to remain, giving priority to the existing trees and palms located along the proposed pedestrian path.
- b. Mulch installation shall be done at a minimum distance of 12" from the base of trunk, avoiding the superficial roots.

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DATE	BY	DESCRIPTION	Fernandez-Beraud, Inc.	
			Landscape Architecture & Planning	
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CITY OF MIAMI OFFICE OF CAPITAL IMPROVEMENTS			
PROJECT NAME	PROJECT No.		
VIRGINIA KEY KAYAK LAUNCH-D2	B-40584		

TREE PROTECTION NOTES

SHEET NO.

GENERAL NOTES

- 1. Landscape Contractor is responsible for verifying locations of all underground and overhead utilities and easements prior to commencing work. All Utility companies and/or the General Contractor shall be notified to verify utility locations prior to digging. Utility trenching is to be coordinated with the Landscape plans prior to beginning of project. The Owner or Landscape Architect shall not be responsible for damage to utility or irrigation lines.
- Landscape Contractor shall examine the site and become familiar with conditions affecting the installation prior to submitting bids. Failure to do so shall not be considered cause for future extras or complaints.
- Landscape Contractor is responsible for verifying all plant quantities prior to bidding and within (7) seven calendar days of receipt of these plans shall notify the Landscape Architect in writing of any and all discrepancies. In case of discrepancies planting plans shall take precedence over plant list.
- No substitutions are to be made without prior consent of the Landscape Architect. Plant material supply is the responsibility of the Landscape Contractor, and he/she shall take steps to insure availability at time of planting.
- All plant material shall meet or exceed the size on the plant list. In all cases meeting the height and the spread specifications shall take precedence over container size.
- The Landscape Contractor is responsible for coordinating tree and palm removals and transplants shown on the Tree/Palm Disposition Plan. The Landscape Contractor is to remove and discard from site existing unwanted trees, palms, shrubs, groundcovers, sod and weeds within landscape areas.

PLANTING NOTES

- Landscape Contractor shall furnish and install all trees, palms, shrubs, groundcover, sod, seed, soil, and mulch.
- Landscape Contractor shall guarantee all plant material for a period of one year from the day of final acceptance by the Landscape Archi 🗾
- All plant material shall be Florida #1 or better, as defined in the Grades and Standards for Nursery Plants, by the State of Florida Department edition).
- Landscape Contractor is responsible for scheduling a nursery visit for Landscape Architect to approve all trees, palms and shrubs prior to delivery to the project site.
- Landscape Contractor shall coordinate his work with that of the Irrigation and Landscape Lighting Contractor.
- The Landscape Contractor shall treat plant areas with pre-emergence herbicide after weeds and grass have been removed. Landscape Contractor shall wait (7) seven days after pre-emergence treatment prior to planting.
- Planting soil shall be a mix of 30% inland muck and 70% freshwater sand. Planting soil mix/backfill shall be clean and free of construction debris, weeds, rock and noxious pests and disease.
- All soil mix in plant beds for groundcovers, shrubs, palms and trees shall be as per details. All other areas shall be dressed with a minimum of 4" topsoil.
- All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure proper drainage. Plant beds in parking lots and in areas compacted by heavy equipment shall be de-compacted so that drainage is not impeded.
- All synthetic burlap, string, cords or wire baskets shall be removed before trees are planted. All synthetic tape shall be removed from branches and trunks prior to final acceptance. The top 1/3 of the burlap shall be removed or tucked into the plant pit before the trees are backfilled.
- 11. Landscape Contractor is responsible for mulching all plant beds and planters with a minimum 3" layer of natural color Eucalyptus or Environmulch immediately after planting. In no case shall Cypress mulch be used.
- All Trees/Palms in sod areas are to receive a 36"/48" diameter mulched saucer at the base of the trunk respectively.
- 13. Landscape Contractor shall guy and stake all trees and palms as per specifications and details. No nails, screws or wiring shall penetrate the outer surface of trees and palms. All guying and staking shall be removed twelve months after planting.
- 14. All palm and tree guy wires and bracing are to be flagged for visibility, for their duration. All unattended and unplanted tree pits shall be properly barricaded and flagged during construction.
- 15. All broken branches and clear trunk branches on street trees are to be pruned according to ANSI A-300 Guidelines for Tree Pruning to min. 5'-0" height clearance to the base of canopy.
- 16. Landscape Contractor to provide all plants with fertilizer 30 days after installation. Fertilizer shall comply with state fertilizer laws. It shall have a chemical designation as indicated for each type of plant:

Palms: 12-4-12 N-P-K, Slow Release Palm Special with micronutrients. Shrubs, Groundcover and Trees: 6-6-6 N-P-K, with micronutrients.

REVISIONS DATE BY

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CITY OF MIAMI OFFICE OF CAPITAL IMPROVEMENTS PROJECT NAME

VIRGINIA KEY

KAYAK LAUNCH-D2

PROJECT No. B-40584

PLANTING NOTES

SHEET NO.

LP-12

City of **Al**iami

FOR CODE

I. WATERING NOTES

A. All new plant material shall have an establishment period of 12 (twelve) months from the time of final acceptance, following the Watering Schedule shown below:

Month		Frequency		
1	Monday	Tuesday	Thursday	Friday
2	Monday	Tuesday	Thursday	Friday
3	Monday	Tuesday	Thursday	Friday
4	Monday	Tuesday	Thursday	Friday
5	Monday	Wednesday	Friday	
6	Monday	Wednesday	Friday	
7	Monday	Wednesday	Friday	
8	Monday	Wednesday	Friday	
9	Monday	Friday	•	
10	Monday	Friday		
11	Monday	Friday		
12	Monday	Friday		

The total watering days is 144 (one hundred forty four) days.

B. The watering contract shall include:

- 1) Watering for new plant material, including the means and the materials for watering the new planting during 144 (one hundred forty four) days. The watering contract for new plant material shall be included in Landscape Contractor's bid.
- 2) Watering for existing plant material that has been root-pruned or disturbed by construction. The watering contract for existing plant material shall be included in Landscape Contractor's bid. All warranties shall be in place by the Contractor, regardless of drought conditions.

II. ESTABLISHMENT

A. The establishment periods are defined as one year after installation of all plants and incidental landscaping. The establishment period will begin upon acceptance of the complete landscape installation, by the Landscape Architect.

- B. During the establishment period the Contractor and the Landscape Sub-Contractor are responsible of the following:
 - 1) Keep all plants undamaged, watered as per schedule, fertilized, mulched, pruned, staked, guyed as necessary to assure specified minimum grade of Florida No. 1;
 - 2) Reset plant material whenever they are not plum;
 - 3) Perform weeding for the full 12 (twelve) month warrantee period and for the complete extended warrantee period;
 - 4) Replace plant material that is not in healthy growing condition at no cost to the Client. Extend the warrantee by 45 (forty five) days for all replacement plant material at no additional cost to the Client:
 - 5) At the Client's expense, the Contractor will replace any plant material damaged as a result of automobile accidents or 'Acts of God' limited to hail, freeze, lighting, and winds exceeding 75 miles per hour as defined by the Miami Hurricane Center:
 - 6) Keep the individual plant locations and planting beds free of litter and undesirable vegetation;
 - 7) Keep landscape bed lines correctly located and edged, and the mulch groomed and replenished;

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Fernandez-Beraud, Inc.
Landscape Architecture & Planning

LETICIA FERNANDEZ-BERAUD, RLA

LA 6666730



CITY OF MIAMI OFFICE OF CAPITAL IMPROVEMENTS

PROJECT NAME PROJECT No.

VIRGINIA KEY

KAYAK LAUNCH-D2

B-40584

PLANTING NOTES

SHEET NO.

Landscape Specifications

A. GENERAL:

- Landscape Contractor shall furnish and install all trees, palms, shrubs, groundcover, sod, seed, soil, and, mulch.
- Install and establish landscaping as indicated in the Contract Documents
- If discrepancies in the contract plans are noted, Landscape Contractor is responsible to immediately notify the Landscape 3
- Personnel performing landscape installation services are under the sole responsibility and supervision of the Contractor and must be competent, experienced, and skilled in all aspects of the required landscape installation and establishment practices
- Landscape Contractor is responsible that all new landscape is installed as per the latest edition of the Florida Department of Transportation (FDOT) Design Standards, including:
 - a. FDOT Specifications Section 580: Landscaping: b. FDOT Index #580-001: Landscape Installation;
 - FDOT Index #110-100: Tree Protection and Preservation;
 - d. FDM: 215 Roadside Safety (Lateral Offsets); and,
 - e. FDM: 212 Intersections.
- All areas impacted by construction shall be repaired and brought back to their original condition, for instance in the cases of existing sod, existing grading, existing landscaping affected by construction, existing utilities and infrastructure.
- Landscape Contractor shall coordinate his work with that of the Irrigation and Landscape Lighting Contractor, and others as necessary.
- The Landscape Contractor is responsible for coordinating tree and palm removals and transplants shown on the Tree/Palm Disposition Plan. The Landscape Contractor is to remove and discard from the site existing unwanted trees, palms, shrubs, groundcovers, sod and weeds within the landscape areas and within the limits of the work.

B. REMOVAL OF UNDESIRABLE PLANT MATERIAL:

- All planting areas shall be free of grass and weeds, unwanted vines, or unwanted trees and palms.
- Landscape Contractor is responsible to remove and dispose of off project site all nuisance exotic plant material found within project limits (nuisance exotic plant material as defined by Miami-Dade County Regulatory and Economic Resources Department (RER).
- In the cases that planting is adjacent to fences that include unwanted vines growing on these fences, the Landscape Contractor is responsible to remove and eliminate those unwanted vines prior to installing the new Landscaping.
- After weeds and grass, and unwanted vines, trees and palms have been removed, the Landscape Contractor shall treat planting areas with pre-emergence and post-emergent herbicide. Landscape Contractor shall wait (7) seven days after preemergence treatment prior to planting. Re-apply when re-growth appears.
- Weed control fabric shall be Pro-5 Weed Barrier by Dewitt or approved equal.

C. MATERIALS:

- Authority for Nomenclature; Species, etc.: For the designated authority in the identification of all plant material, refer to two publications of L.H. Bailey: "Hortus III" and "Manual of Cultivated Plants," and ensure that all specimens are true to type, name, etc., as described therein. For the standard nomenclature, refer to the publication of the American Joint Committee on Horticultural Nomenclature, "Standardized Plant Names."
- All plant material shall be Florida #1 or better, as defined in the Grades and Standards for Nursery Plants, Parts I and II by the State of Florida Department of Agriculture and Consumer Services. All plants must be the specified size and grade at the time of delivery to the site and the minimum grade maintained throughout the project construction period.
- All plant material shall meet or exceed the size on the plant list. In all cases meeting the height, the spread and caliper specifications shall take precedence over container size.

No plant material substitutions are to be made without prior consent in writing of the Landscape Architect. Contractor is responsible to ensure plant availability at time of planting.

Substitution of Container-Grown (CG) Plants: With the Landscape Architect's written approval, the Contr substitute CG plants for any other root classification types, if he has met all other requirements of the Co

Container-Grown Plants (CG): The Landscape Architect will not accept any Container-Grown Plants (CG) have become pot-bound or for which the top system is too large for the size of the container. Fully cut and of the containers in a manner that will not damage the root system. Do not remove CG plants from the container until 106/22/20 containers to the root system.

Balled-and-Burlapped Plants (B&B), and Wired Balled-and-Burlapped (WB & B):

- a. General: Properly protect the root ball of these plants until planting them. The Landscape Architect may reject any plant which shows evidence of having been mishandled. Set the B&B and WB&B plants then remove the top 2/3 of all wire, rope, and binding surrounding the plant. Remove the burlap from the top 4 inches [100 mm] of the root ball. Do not disturb the root ball in any way. Bare root material is not allowed for substitution. At least 90 days before diaging out B & B and WB & B plants, root-prune those 11/2 inches [38 mm] or greater in diameter and certify such fact on accompanying invoices.
- b. Provisions for Wiring: For plants grown in soil of a loose texture, which does not readily adhere to the root system. (and especially in the case of large plants or trees), the Landscape Architect may require WB & B plants. For WB & B plants, before removing the plant from the excavated hole, place sound hog wire around the burlapped ball, and loop and tension it until the tightened wire netting substantially packages the burlapped ball such as to prevent disturbing of the loose soil around the roots during handling.
- Use only plants that are true to type and species and ensure that the plants not specifically covered by Florida Department of Agriculture's "Grades and Standards for Nursery Plants" conform in type and species with the standards and designations in general acceptance by Florida nurseries AND in conformance with Section 2 of the latest edition of the American Standard for Nursery Stock for shrubs. Prior to planting, furnish certification to the Landscape Architect that all plant materials have been purchased from Florida based Nurseryman Stock.
- Move nursery stock in accordance with all Federal, State, and Local Rules and Regulations. For each shipment of nursery stock, provide the nursery's General Nursery Stock Inspection Certificate as required in Chapter 5B-2, F.A.C.
- 10. A minimum of two plants of each species on each shipment must be shipped with tags stating the botanical nomenclature and common name of the plant. Should discrepancies between botanical nomenclature and common name arise, the botanical name will take precedence.
- 11. Water: Meet the requirements of Section 983.
- Mulch: All planted areas shall be mulched with a minimum 3" layer, in accordance with details. The mulch shall be shredded Grade "A" Eucalyptus of natural color, Enviromulch, or approved equal. Cypress mulch shall not be acceptable. The Landscape Contractor shall submit a mulch sample of one (1) cubic foot.
- 13. Mulch application: Landscape Contractor shall not apply mulch directly at the base of trunks of trees and palms. The mulch shall be applied as follows:
 - a. 6"-9" distance from the base of trunks of new trees and new small palms:
 - b. 12" distance from the base of trunks of new and existing large palms;
 - c. 12" distance (min.) from the base of trunks and surface large roots of existing large trees, or at a distance determined by the Landscape Architect.
- 14. Soil: Remove all unsuitable soil and debris to root ball depth. Replace soil meeting the requirements of Section 987-2.4.
- Planting soil shall be a mix of 20% inland muck and 80% freshwater sand. Planting soil mix/backfill shall be clean and free of construction debris, weeds, rock and noxious pests and disease. Before planting materials are installed, test planting soil and amend planting soil as recommended by the Testing Laboratory such that the planting soil has an Infiltration Rate (Ksat) of 8-16 inches/hour.
- Soil moisturizer shall be added to all planted areas. Soil moisturizer shall be "Terrasorb", as manufactured by Industrial Services, International or equal. Proportions shall be as follows:
 - a. For trees and palms up to 36 inches diameter root ball, use one 3 oz. packet;
 - b. For trees and palms with root ball larger than 36 inches in diameter, use two 3 oz. packets; and,
 - c. For bedding areas use one 3 oz. packet for every 20 square feet of planting areas, with packets thoroughly mixed in planting soil.
- 11. All soil mix in plant beds for groundcovers, shrubs, palms and trees shall be as per details. All other planting areas (including sod areas) shall be dressed with a minimum of 4" topsoil / planting soil.

REVISIONS DATE RY Fernandez-Beraud, Inc. Landscape Architecture & Planning LETICIA FERNANDEZ-BERAUD. RLA LA 6666730



CITY OF MIAMI OFFICE OF CAPITAL IMPROVEMENTS PROJECT NAME PROJECT No. VIRGINIA KEY B-40584 KAYAK LAUNCH-D2

LANDSCAPE SPECIFICATIONS

SHEET NO.

LP-14

City of Miami

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- 12. Planting soil shall be amended by the addition of biostimulants. Biostimulants shall be Die Hard Transplant containing mycorrhizal fungi or approved equal. Proportions shall be as follows:
 - a. For trees and palms up to 36 inches diameter root ball, use one 8 oz. packet;
 - b. For trees and palms with root balls larger than 36 inches in diameter, use two 8 oz. packets; and,
 - c. For shrubs and groundcovers, follow manufacturer's recommendations.
- Worksite Landscape Supervisor: Provide a Worksite Landscape Supervisor to directly oversee all landscape installation and establishment. The Worksite Landscape Supervisor must be a Certified Landscape Technician or Certified Landscape Contractor in accordance with the Florida Nursery Growers and Landscape Association (FNGLA) located at the following URL address: https://www.fngla.org/certifications/index.aspx, or a State of Florida Registered Landscape Architect. Provide verification at the pre-construction meeting.
- The Landscape Contractor shall schedule with the Landscape Architect a time in which to view and approve plant material in the nursery prior to installation. In the event that a nursery visit is not feasible, the Landscape Contractor shall submit photographs of proposed plant material if requested by the Landscape Architect.

D. INSTALLATION:

- Installation Plan: At the pre-construction meeting, provide an Installation Plan for review and comment. Specifically describe the methods, activities, materials, and schedule to achieve installation as described in contract plans. Begin installation after Installation Plan is accepted by the Landscape Architect.
- PRIOR TO INSTALLATION THE LANDSCAPE CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH THE SITE CONDITIONS, AND TO FIELD VERIFY ALL EXISTING AND PROPOSED OVERHEAD / UNDERGROUND UTILITIES, DRAINAGE STRUCTURES AND PIPES, LIGHT POLES AND ELECTRICAL CONDUITS, FIBER OPTIC AND ITS POWER LINES, CCTV & RVSS CAMERAS, MVDS DEVICES, AND MAKE FIELD ADJUSTMENTS TO AVOID CONFLICTS OR DAMAGES. LANDSCAPE LAYOUT SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION, LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT IN CASE OF ANY DAMAGES.
- Delivery: All materials must be available for inspection before installation and will be subject to approval or rejection.
- Layout: Mark proposed planting beds and individual locations of trees and palms as shown in the Contract Documents for Landscape Architect's review, prior to excavation or planting. The Landscape Architect may request to review all proposed construction practices before the start of the operations. Make no changes to the layout, materials or any variations of plant materials from the Contract Documents without the written approval.
- Soil Drainage: All planting areas and planting pits shall be tested for sufficient percolation prior to final planting and irrigation installation to ensure proper drainage. Immediately notify the Landscape Architect of drainage or percolation problems before plant installation. Plant beds in parking lots and in areas compacted by heavy equipment shall be de-compacted so that drainage is not impeded.
- Landscape Contractor shall examine subgrade and rough grade before planting and alert the Landscape Architect prior to planting of any conditions which would be detrimental to plant development, in order to receive Landscape Architect's directions regarding the matter.
- All planting areas shall be free of grass and weeds, unwanted vines, or unwanted trees and palms.
- Site Repair and Restoration: Repair and restore existing areas disturbed by installation or maintenance activities. Where new turf is required to restore and repair disturbed areas, meet the requirements of Section 570 (Performance Turf).
- Disposal of Surplus Materials and Debris: Remove from the jobsite any surplus material unless otherwise directed by the Landscape Architect. Surplus is defined as material not needed after installation of landscaping per Contract Documents. Upon commencement of landscape installation, remove daily, all debris from the jobsite.
- 10. All soil mix in plant beds for groundcovers, shrubs, palms and trees shall be as per details. All other areas shall be dressed with a minimum of 4" topsoil.
- 11. All synthetic burlap, string, cords or wire baskets shall be removed before trees are planted. All synthetic tape shall be removed from branches and trunks prior to final acceptance. The top 1/3 of the burlap shall be removed or tucked into the plant pit before the trees are backfilled.
- Landscape Contractor shall guy and stake all trees and palms as per specifications and details. No nails, screws or wiring shall penetrate the outer surface of trees and palms. All guying and staking shall be removed twelve months after planting.
- All planted areas shall be mulched in accordance with mulch details and specifications.

- 14. All Trees/Palms in sod areas are to receive a 60" diameter mulch saucer the base of the trunk for small tre 72" diameter mulch saucer the base of the trunk for large trees and palms.
- All trees and palms shall be staked or guyed immediately after planting. Staking and guying shall be don with the latest edition of FDOT Standards.
- Landscape Contractor shall stake and guy all trees and palms as per FDOT Design Standards guidelines

 Oo1) and planting details. No nails, screws or wiring shall penetrate the outer surface of trees and palms. A Contractor shall stake and guy all trees and palms as per FDOT Design Standards guidelines

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 Oo2) Oo2/2001 16. Landscape Contractor shall stake and guy all trees and palms as per FDOT Design Standards guidelines
- 17. All palm and tree guy wires and bracing are to be flagged for visibility, for their duration. All unattended and unplanted tree pits shall be properly barricaded and flagged during construction.
- All plant material shall be installed as per the Florida Statutes (CHAPTER 479 Outdoor Advertising / 479.106 Vegetation Management).
- 19. Landscape Contractor to provide all plants with fertilizer 30 days after installation. Fertilizer shall comply with the State of Florida's fertilizer laws. The fertilizer to be used on all landscape material except for turfgrass and bedding plants shall be in granular form and have a 2-1-3 or similar ratio of N, P, and K (i.e., "Palm Special" 8-4-12), with at least 50% of the nitrogen and potassium in the slow-release form, preferably sulfur-coated. Fertilizer mix shall also contain micronutrients, specifically magnesium (at least 3%), manganese (at least 1%), iron (at least 1%), and trace amounts (less than 1%) of boron, copper, and zinc.
- 20. All free-standing palms and hardwood trees shall receive 1 to 8 pounds of the product recommended above (item 17), as per individual tree size (1 to 3 pounds each for small trees/palms; 3 to 5 pounds for each of the mid-size trees/palms; 5 to 8 pounds for large trees/palms).
- 21. Landscape Contractor is responsible for verifying all plant quantities prior to installing. Within seven (7) calendar days of receipt of these plans Landscape Contractor shall notify the Landscape Architect in writing of any and all discrepancies. In case of discrepancies, planting plans shall take precedence over plant list.
- Installation Completion: Notify the Landscape Architect no less than seven calendar days in advance of completion. Upon completion of installation of plants and incidental landscaping, certify on a form provided by the Landscape Architect that the landscaping has been installed accordance with the Contract Documents.

E. WARRANTEE:

- Landscape Contractor shall warranty all plant material for the time period of one (1) year. The warranty period will starting from the day of final acceptance by the Landscape Architect.
- Use replacement plants of the same species and planting medium as the plant being replaced and as specified in the Contract Documents. Replacement size must match the size of the adjacent grown-in plant material of the same species and that may be larger than the initially installed size.

F. UTILITIES, STRUCTURES AND SIGNAGE:

- Landscape Contractor is responsible for verifying locations of all underground and overhead utilities and easements prior to commencing work. Landscape Contractor shall avoid by all means damage to any underground or overhead utilities. The Contractor is solely and directly responsible to the owners and operators of such properties for all damages, injuries, expenses, losses, inconveniences, or delays caused by the Contractor's operations. ALWAYS CALL 811 BEFORE **DIGGING** (Ph. 1-800-432-4770; Website: www.callsunshine.com). Additionally, the Landscape Contractor is responsible to notify the Town of Medley of any other utilities not a part of Sunshine One Call (i.e.: Street Lighting).
- In cases of landscape installation adjacent to existing underground or overhead utilities, the Landscape Contractor is responsible to field adjust plant material accordingly, leaving the following minimum clearances (or distances as measured from the nearest edge of adjacent utility to the nearest edge of the proposed root ball):
 - a. Underground utilities:
 - For installation of small to large palms, leave min. 10 feet clearance;
 - ii. For installation of small trees, leave min. 10 feet clearance; and,
 - iii. For installation of medium to large trees, leave a minimum of 15 feet.
 - b. Overhead utilities (light poles, poles, etc.):
 - i. For installation of small trees, leave min. clearance of 15 feet;
 - ii. For installation of medium trees, leave min. clearance of 20 feet;
 - iii. For installation of large trees, leave min. clearance of 30 feet: iv. For installation of small palms, leave min. clearance of 10 feet;

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DATE	BY	DESCRIPTION	Fernandez-Beraud, Inc.
			Landscape Architecture & Planning
			<u>LETICIA FERNANDEZ-BERAUD, RLA</u> LA 6666730



CITY OF MIAMI OFFICE OF CAPITAL IMPROVEMENTS PROJECT NAME PROJECT No. VIRGINIA KEY B-40584 KAYAK LAUNCH-D2

LANDSCAPE SPECIFICATIONS

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City of **Al**iami

- v. For installation of medium palms, leave min. clearance of 15 feet; and,
- vi. For installation of large palms, leave min, clearance of 20 feet.
- c. Note: These dimensions are to be followed by the Landscape Contractor unless shown otherwise in plans and approved by the Landscape Architect. In all cases Landscape Contractor is responsible for field verification and appropriate landscape layout adjustments with the approval of the Landscape Architect prior to installation.
- In cases of landscape installation adjacent to quardrails, barrier walls and noise walls. Landscape Contractor will be responsible to leave the following minimum clearances (or distances as measured from the nearest edge of adjacent guardrail / barrier wall / noise wall to the nearest edge of the proposed trunk):
 - a. For installation of small trees, leave min, clearance of 12 feet:
 - b. For installation of medium trees, leave min. clearance of 18 feet;
 - c. For installation of large trees, leave min. clearance of 25 feet;
 - d. For installation of small palms, leave min. clearance of 7 feet;
 - e. For installation of medium palms, leave min. clearance of 9 feet; and,
 - For installation of large palms, leave min. clearance of 15 feet.
 - g. Note: These dimensions are to be followed by the Landscape Contractor <u>unless shown otherwise in plans</u> and approved by the Landscape Architect. In all cases Landscape Contractor is responsible for field verification and appropriate landscape layout adjustments with the approval of the Landscape Architect prior to installation.
- In cases of landscape installation adjacent to existing mature vegetation, Landscape Contractor will be responsible to leave the following minimum clearances to the existing tree canopy (clearance is referred to the distance as measured from the nearest edge of tree canopy to the nearest edge of the proposed trunk):
 - a. For installation of small trees, leave min. clearance of 15 feet;
 - b. For installation of medium trees, leave min. clearance of 20 feet;
 - c. For installation of large trees, leave min. clearance of 30 feet;
 - d. For installation of small palms, leave min. clearance of 10 feet;
 - e. For installation of medium palms, leave min. clearance of 15 feet;
 - For installation of large palms, leave min. clearance of 20 feet.
 - g. Note: These dimensions are to be followed by the Landscape Contractor unless shown otherwise in plans and approved by the Landscape Architect. In all cases Landscape Contractor is responsible of field verification and appropriate landscape layout adjustments with the approval of the Landscape Architect prior to installation.
- Landscape Contractor is responsible to field verify and field adjust the landscape installation in order to abide by the required clear visibility, accessibility, clearance, and setbacks as set forth in the latest edition of the Florida Department of Transportation (FDOT) governing standards and specifications: FDOT Design Standards, FDOT Design Manual and FDOT Standard Specifications for Road and Bridge Construction as amended by contract documents; and all other requirements set forth by the Town of Medley.
- Do not block signs with plant material. Landscape Contractor is responsible to make the necessary field adjustments in order to ensure visibility of signs.

G. ANSI STANDARDS:

- All landscape installation and procedures, including landscape maintenance, shall be performed in compliance with the American National Standards Institute (ANSI) (most recent editions):
 - a. ANSI A300 (Part 1): Pruning.
 - b. ANSI A300 (Part 2): Fertilization.
 - c. ANSI A300 (Part 3): Support Systems Cabling, Bracing, and Guying Established Trees.
 - d. ANSI A300 (Part 5): Management of Trees and Shrubs during Site Planning, Site Development and Construction.

LA 6666730

- e. ANSI A300 (Part 6): Transplanting.
- ANSI Z133.1-2000: Pruning, Trimming, Repairing, Maintaining, Removing Trees, and Cutting Brush Safety Requirements
- All pruning, and the associated safety criteria, shall be performed according to American National Standard Institute ANSI A300 standards and shall be supervised by an International Society of Arboriculture (ISA) Certified Arborist

** Plant material size reference:

Small trees: Trees smaller than 15 feet height. Medium trees: Trees from 15-25 feet height. Large trees: Trees larger than 25 feet height.

Small palms: Palms with canopy/spread smaller than 7 feet. Medium palms: Palms with canopy/spread between 7-15 feet. Large palms: Palms with canopy/spread larger than 15 feet.







CITY OF MIAMI CAPITAL IMPROVEMENTS PROGR 444 S.W. 2ND AVENUE, 8TH FLOOR

MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI OFFICE OF CAPITAL IMPROVEMENTS

PROJECT NAME PROJECT No. VIRGINIA KEY B-40584 KAYAK LAUNCH-D2

LANDSCAPE SPECIFICATIONS

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