- **GENERAL NOTES**
- SEE CIVIL ENGINEERING DRAWINGS FOR GENERAL GRADING OF THE SITE, INCLUDING FINISH GRADES FOR PARKING LOTS, ROADWAYS, SIDEWALKS, AND PLANTING AREAS. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE PROJECT SITE PRIOR TO BIDDING THE WORK. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND LOCATION OF PROPOSED IMPROVEMENTS PRIOR TO INITIATING ANY CONSTRUCTION. LOCATION OF ALL UTILITIES AND BASE INFORMATION IS APPROXIMATE. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES AND OBSTRUCTIONS PRIOR TO INITIATING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY DAMAGE TO
- EXISTING ELEMENTS ABOVE OR BELOW GROUND TO ITS ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT, AT ANY STAGE OF THE OPERATIONS, TO REJECT ANY AND ALL WORK AND
- MATERIAL WHICH, IN HIS OPINION, DO NOT MEET WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
- ALL GRADES, DIMENSIONS, AND EXISTING CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR ON-SITE BEFORE CONSTRUCTION BEGINS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE PRIOR TO START OF CONSTRUCTION AND/OR FABRICATION. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS.
- 7. REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES DURING CONSTRUCTION OPERATIONS TO PROTECT THE PUBLIC ACCORDING TO ALL APPLICABLE CODES AND RECOGNIZED LOCAL PRACTICES.
- THE CONTRACTOR SHALL COORDINATE ACCESS AND STAGING AREAS WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION. PROVIDE ADDITIONAL MEASURES AS NECESSARY TO MINIMIZE ADVERSE IMPACTS IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES.
- 10. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN CONSENT OF THE OWNER'S REPRESENTATIVE. DURING THE COURSE OF THIS WORK, EXCESS WASTE MATERIAL SHALL BE REMOVED DAILY FROM THE SITE.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATION OF WORK WITH OTHER TRADES AND THE OWNER'S REPRESENTATIVE. 12. THE CONTRACTOR SHALL NOTIFY ALL NECESSARY UTILITY COMPANIES 48 HRS MINIMUM PRIOR TO DIGGING FOR FIELD VERIFICATION OF
- ALL UNDERGROUND UTILITIES. 13. ALL EXISTING SITE ROADS, PARKING LOTS, CURBS, UTILITIES, SEWERS, AND OTHER ELEMENTS TO REMAIN SHALL BE FULLY PROTECTED FROM ANY DAMAGE UNLESS OTHERWISE NOTED.

LANDSCAPE NOTES

- THE CONTRACTOR SHALL REVIEW ARCHITECTURE/ENGINEERING PLANS TO BECOME THOROUGHLY FAMILIAR WITH SURFACE AND SUBSURFACE UTILITIES.
- THE PLANT QUANTITIES SHOWN ON THE LANDSCAPE CONTRACT DOCUMENTS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO CONTRACT AWARD AND COMMENCEMENT OF WORK.
- 3. ALL INSTALLATION OF PLANT MATERIAL SHALL COMPLY WITH APPLICABLE JURISDICTIONAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS ASSOCIATED WITH THIS WORK.
- 4. PRIOR TO PLANTING INSTALLATION, THE CONTRACTOR SHALL CONFIRM THE AVAILABILITY OF ALL THE SPECIFIED PLANT MATERIALS. SUBMIT DATED PHOTOGRAPHS OF TREE MATERIAL AND SPECIMEN PLANT MATERIAL TO THE OWNER'S REPRESENTATIVE FOR REVIEW.
- ALL PLANT MATERIAL SIZES SPECIFIED ARE MINIMUM SIZES. CONTAINER SIZE SHALL BE INCREASED IF NECESSARY TO PROVIDE OVERALL PLANT SIZE SPECIFIED.
- IF PLANT MATERIAL DOES NOT COMPLY WITH THE REQUIREMENTS AS SPECIFIED HEREIN, THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT SUCH PLANTS AND REQUIRE THE CONTRACTOR TO REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL REINSPECTED AND FOUND TO BE ACCEPTABLE.
- THE CONTRACTOR SHALL PROVIDE AN APPROVED PLANTING SOIL MIXTURE FOR ALL PLANT MATERIAL. SEE SPECIFICATIONS FOR REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY AND PLUMB CONDITION OF ALL TREES AND SHRUBS, AND SHALL BE LEGALLY LIABLE FOR ANY DAMAGE CAUSED BY INSTABILITY OF ANY PLANT MATERIALS. STAKING OF TREES OR SHRUBS SHALL BE DONE IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.
- 10. THE CONTRACTOR SHALL VERIFY ADEQUATE VERTICAL DRAINAGE IN ALL PLANT BEDS AND PLANTERS AS FOLLOWS:
- WITH A SHOVEL OR POSTHOLE DIGGER, DIG HOLE 18" TO 24" DEEP. THE DIAMETER OF THE HOLE SHOULD BE UNIFORM FROM TOP TO BOTTOM WITH THE BOTTOM BEING FLAT. FILL HOLE WITH WATER TO THE TOP AND LET STAND FOR AT LEAST AN HOUR TO PRE-WET THE SOIL.
- REFILL HOLE TO WITHIN A COUPLE INCHES OF THE TOP. DON'T OVERFLOW THE HOLE.
- ALLOW THE HOLE TO DRAIN FOR A MINIMUM OF ONE HOUR DETERMINE AVERAGE DROP IN WATER LEVEL PER HOUR. FOR WELL DRAINED SOIL, WATER LEVEL SHOULD DROP MORE THAN ONE (1) INCH PER HOUR. IF INADEQUATE VERTICAL DRAINAGE IS ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT RECOMMENDATIONS FOR PROVIDING ADEQUATE DRAINAGE TO THE LANDSCAPE ARCHITECT.
- 11. PEG SOD ON SLOPES GREATER THAN 3:1. THE CONTRACTOR SHALL ENGAGE A QUALIFIED TREE SURGEON WHO HAS SUCCESSFULLY COMPLETED TREE PROTECTION AND TREE TRIMMING WITH FIVE YEARS OR MORE EXPERIENCE, TO PERFORM THE FOLLOWING WORK:
- REMOVE BRANCHES FROM TREES THAT ARE TO REMAIN, IF REQUIRED, AS DIRECTED BY OWNER'S REPRESENTATIVE. PERFORM INITIAL PRUNING OF BRANCHES AND STIMULATION OF ROOT GROWTH WHERE REMOVED TO ACCOMMODATE NEW
- CONSTRUCTION. C. PERFORM TREE REPAIR WORK FOR DAMAGE INCURRED BY NEW CONSTRUCTION.
- 12. CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION SYSTEM FOR RELOCATED TREES.
- 13. CONTRACTOR SHALL PROTECT EXISTING VEGETATION TO REMAIN AS SHOWN ON DRAWINGS OR BY MEANS APPROVED BY THE OWNER'S REPRESENTATIVE.
- 14. CONTRACTOR TO CLEAN, PRUNE, AND SHAPE EDGES OF EXISTING VEGETATION AS DIRECTED BY OWNER'S REPRESENTATIVE. CREATE SMOOTH BED LINES AROUND EXISTING VEGETATION.
- 15. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC. ASSOCIATED WITH THE WORK. SEE SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.
- 16. CONTRACTOR SHALL FIELD-ADJUST LOCATION OF PLANT MATERIAL PRIOR TO INITIATING INSTALLATION FOR THE REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE.
- ALL PLANT MATERIAL SHALL BE IN FULL AND STRICT ACCORDANCE WITH FLORIDA NO. 1 GRADE, ACCORDING TO THE "GRADES AND STANDARDS FOR NURSERY PLANTS" PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
- ALL PLANTING BEDS SHALL BE TOP-DRESSED WITH A 3" LAYER OF MULCH AS SPECIFIED. ALL TREES SHALL HAVE A 3" THICK, 24" RADIUS 18 (FROM THE TRUNK) MULCH RING PLACED AROUND THE BASE OF THE TRUNK.
- SHRUB AND GROUND COVER BED QUANTITIES ARE INDICATED ON THE PLANT LIST. PLANT ACCENT SHRUBS AND TREES AS SHOWN ON THE LANDSCAPE PLANTING PLANS WHEN INDIVIDUAL PLANTS ARE DELINEATED.

- ON THE PLANT LIST.
- WATERING AS REQUIRED TO SUPPLEMENT IRRIGATION WATERING AND RAINFALL.
- 22. CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION.
- 23. CONTRACTOR SHALL REGRADE ALL AREAS DISTURBED BY PLANT REMOVAL, RELOCATION, AND/OR INSTALLATION WORK.
- REMOVAL, RELOCATION, AND/OR INSTALLATION WORK.
- ANTICIPATED INSPECTION DATE.
- OF SUBSTANTIAL COMPLETION.
- HARDSCAPE NOTES
- ROADWAYS, SIDEWALKS, AND PLANTING AREAS.
- 3.
- EXCEED TWO PERCENT. ALL COLORS AND MATERIALS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE. FOR THIS PURPOSE. THE CONTRACTOR SHALL
- ALL OY

REVIEW AND APPROVAL.

CITY OF MIAM	I BEACH					
LANDSCAPE LE	GEND					
ZONING DISTRICT:	RS-2	LOT AREA:	24,028	ACRES:	0.5516	
ODENI SDACE		-			REQUIRED/	
A.	Sq. Ft. of requir	ed landscaped Op	en Space		12,014	17,438
	Lot Mult	area: 24,028 iplier: 50%				
В.	Sq. Ft. of parkin Parking Sp Mult	g lot open space r paces: 0 iplier: 0	equired sf/space		N/A	N/A
С.	Total Sq. Ft. of I	andscaped Open S	Space required A+B	=	12,014	17,438
A.	Total Sq. Ft. of I	andscaped Open S	Space required		12,014	17,438
В.	Maximum Lawn Net Lot Mult	Area (sod) permi Area: <u>17,438</u> inlier: 50%	tted		8,719	3,880
	i i i i i i i i i i i i i i i i i i i					
TREES A.	Number of tree	s required per LOT	Γ, less existing trees		24	24
1 Tree P	Fron Bacl er 1,000 SF of Lot (24,028 / 1,0 - Existing	t Yard 2 4 Yard 3 5 Area 00) = 24 Trees: 24 trees: 0				
B.	Number of STRI Maximum avera inear feet of fror Existing	ET trees required age spacing of twe stage: <u>120</u> Frees: <u>6</u> trees: <u>0</u>	, less existing trees nty feet (20) feet oi	n center	6	8
с.	Palms as Street Maximum avera Palms prov	Tree age spacing of twe vided: 0	nty feet (20) feet o	n center	0	0
D.	% Native specie Trees prov Mult	s required vided: 32 iplier: 30%			10	10
Ε.	% Drought toler Trees prov Mult	ent and low main rided: 32 iplier: 50%	tenance species req	uired	16	16
SHRUBS						
A.	Number of shru Trees req Mult	bs required uired: <u>30</u> iplier: <u>12</u>			360	360
В.	% Native specie Shrubs prov Mult	s required vided: 360 iplier: 50%			180	180
	3					
A.	Number of large minimum numb	e shrubs or small t er of large shrubs mber of shrubs	rees required or small trees shall	be 10% of	36	36
	Shrubs req Mult	uired: 360 iplier: 10%				
В.	% Native specie Large Shrubs prov	s required vided: 36			18	18

20. PALM HEIGHTS, AS INDICATED ON THE PLANS, REFER TO CLEAR TRUNK (C.T.), GRAY WOOD (G.W.), OR OVERALL HEIGHT (O.A.) AS SPECIFIED

21. CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND

24. CONTRACTOR SHALL REPLACE (BY EQUAL SIZE AND QUALITY) ANY AND ALL EXISTING PLANT MATERIAL DISTURBED OR DAMAGED BY PLANT

25. MAINTENANCE SHALL BEGIN AFTER EACH PLANT HAS BEEN INSTALLED AND SHALL CONTINUE UNTIL THE DATE OF SUBSTANTIAL COMPLETION. MAINTENANCE INCLUDES WATERING, PRUNING, WEEDING, MULCHING, REPLACEMENTS OF SICK OR DEAD PLANTS, AND ANY OTHER CARE NECESSARY FOR THE PROPER GROWTH OF THE PLANT MATERIAL.

26. UPON COMPLETION OF ALL LANDSCAPING, AN INSPECTION FOR SUBSTANTIAL COMPLETION OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR SCHEDULING THE INSPECTION AT LEAST SEVEN (7) DAYS PRIOR TO THE

27. CONTRACTOR SHALL SUBMIT WRITTEN GUARANTEE OF SURVIVABILITY OF ALL PLANT MATERIAL FOR A PERIOD OF ONE YEAR FROM DATE

28. CONTRACTOR MUST APPROVE ALL GRADED AREAS PRIOR TO THE COMMENCEMENT OF PLANTING.

SEE CIVIL ENGINEERING DRAWINGS FOR GENERAL GRADING OF THE SITE, INCLUDING SIDEWALK AND FINISH GRADES FOR PARKING LOTS,

2. ALL PAVEMENT SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION. ALIGNMENT MAY BE ADJUSTED UPON APPROVAL TO ACCOMMODATE EXISTING SITE ELEMENTS.

SLOPES OF WALKS TO BE NO GREATER THAN FIVE PERCENT, UNLESS EXPRESSLY NOTED OTHERWISE. CROSS-SLOPE OF WALKS NOT TO

CONSTRUCT OR SUBMIT AS DIRECTED BY THE OWNER'S REPRESENTATIVE PANELS DEPICTING PROPOSED FINISHES AND COLORS FOR

5. ALL NAILS, LAG SCREWS, BOLTS AND MISCELLANEOUS FASTENERS SHALL BE HOT DIPPED GALVANIZED OR A CORROSION RESISTANT

INDEX OF DRAWINGS: FUN HOUSE

1

		2-Jul-21	
DRAWING N(DRAWING TITLE VIE	≣W	COMB - DRC	

L-000	LANDSCAPE NOTES, SHEET MATRIX, SYMBALS & ZONING TABLE	NOTES	X	
L-001	TREE MAINTENANCE & RELOCATION NOTES	NOTES	X	
L-002	TREE DISPOSITION PLAN & PROTECTION DETAIL	PLAN / DETAIL	X	
L-003	TREE RELOCATION PLAN	PLAN	X	
L-004	TREE DISPOSITION LIST & REPLACEMENT CALCS.	NOTES	X	
L-100	LANDSCAPE CANOPY PLAN	PLAN	X	
L-101	LANDSCAPE UNDERSTORY PLAN	PLAN	X	
L-102	LANDSCAPE PLANTING DETAILS	DETAILS	X	
L-103	HARDSCAPE PLAN	PLAN		
L-104	LANDSCAPE ELEVATIONS	ELEVATIONS		
L-105	LANDSCAPE ELEVATIONS	ELEVATIONS		
L-106	HARDSCAPE DETAILS	DETAILS		

10	r36666 8	& Groundcovers	<u> </u>	
	Cumo	scientific Name	Common Nemo	Fracification
	TF/7	Tripsacum floridana	Dwarf Fakahatchee	7 gal.
	PG/1	Pilea Glauca	Pilea	1 gal.
	UP/3	Uniola paniculata	Sea-oats	3 gal.
Gi	roundc	overs & Accents		
	Sym	Scientific Name	Common Name	Specification
	BF/3	Bulbine frutescens	Bulbine	3 gal.
0	CAR-6	Coccothrinax argentata	Silver Thatch Palm	4'-5' O.A.
1	CN/7 ES/25	Encephalartos sp.	Encephalartos	/ gal. 25 gal.
	EL/1	Ernodea littoralis	Golden Creeper	1 gal.
J	JA/15	Jacquinia arborea	Braceletwood	15 gal.
	JK/15	Jacquinia keyensis Noomarisa saorulaa 'Bogina'	Joewood	15 gal.
	MD/7	Monstera deliciosa	Mexican Breadfruit	3 gal. 7 gal.
	PB/3	Philodendron Burle Marx	Burle Marx Philodendron	3 gal.
	PO/3	Peperomia obtusifolia	Peperomia	3 gal.
	PL/3 SE/7	Psychotria ligustrifolia Stenhanotis florihunda	Bahama Coffee Madagascar Jasmine	3 gal. 7 gal
5	SM/15	Suriana maritima	Bay Cedar	7 gal. 15 gal.
:	SR/15	Serenoa repens 'Cinerea'	Silver Saw Palmetto	15 gal.
F	RM/15	Rhapis multifida	Finger Palm	15 gal.
_	ZF/7	Zamia floridana	Coontie	7 gal.; 15" x 15"
Не	edge/B	ush Material		
	Sym	Scientific Name	Common Name	Specification
	BL/7	Byrsonima lucida	Locust Berry	7 gal.; 3'-4' ht.
E	BD/25	Brunfelsia densifoilia Baccharis diaca	Serpentine Rain Tree	25 gal.; 6' HT. min.; bush form
	ыл// CC/25	pacenaris aloca Capparis cynophallophora	Jamaica Caper	7 gail; 4° nt. x 3° spa. 4-5" HT, min.: bush form
Ì	CR/7	Clusia rosea	Pitch Apple	7 gal.; 4' ht. x 3' spd.
(CR/30	Clusia rosea	Pitch Apple	30 gal.; 6' HT. min.; bush form
E	EA/15	Eugenia axillaris	White Stopper	4-5" HT. min.; bush form
I	EF/15	Eugenia foetida	Spanish Stopper	4-5" HT. min.; bush form
I	ER/15	Eugenia rhombea	Red Stopper	4-5" HT. min.; bush form
• (GL/25	Gymnanthes lucida	Crabwood	6' HT. min.; bush form
C	GO/25	Guaiacum officinale	Lignum Vitae	25 gal.
	GT/7	Gardenia sp.	Tahltia	7 gal.
	HP/7	Hamelia patens	Firebush	7 gal.
ł	HB/15	Heterosavia banamensis	Maiden Bush	15 gal.; 4'-5' ht. x 4' spd.
י י	PD/25	Pimenta dioica		25 gal.; 4-5 HT. min.; bush form
•	PR/25	Pimenta racemosa	Bay Rum	25 gal.; 6' HT, min.; bush form
Ca	anopy I	Level Material		
	Svm	Scientific Name	Common Name	Specification
• AI	HE/100	Artocarpus Heterophyllus	Jackfruit	20'-25 O.A. X 16'-18' SPD.
• в	SI/100	Bursera simaruba	Gumbo Limbo	25' O.A. X 15'-18' SPD. 4' CLR TRUNK N
c	CMI-16	Coccothrinax miraguama	Miraguama	16' G.W.
c	CMI-20	Coccothrinax miraguama	Miraguama	20' G.W.
c	CMI-25	Coccothrinax miraguama	Miraguama	25' G.W.
С	CBA-20	Copernicia baileyana	Yarey palm	20-25' G.W.; HEAVY TRUNK
CI	ER/100	Conocarpus erectus	Green Buttonwood	15'-18' HT. X 12-15' SPD.
° C	ES/100	Conocarpus erectus var. sericeus	Silver Buttonwood	15'-18' HT. X 12-15' SPD.
. CI	OL/100	Chrysophyllum oliviforme	Satin Leaf	25' O.A. X 15'-18' SPD. 4' CLR TRUNK N
C	.00/45	Coccoloba uvijera x diversifolia	Sea Plum	12' U.A.; 6' SPD.; 2" CAL. MULTI
	NU-14	Cocos nucifera 'Maypan'	Maypan Coconut Palm	14 G.W. HEAVT IKUNK
C)CA-25	Dvpsis cabadae	Cabada Palm	20'-25' O.A. Height
С С П	SSA/50	Guaiacum Sanctum	Florida Lignum Vitae	8-10' HT.
C C D G	,	Kuunia dan daan famaaan	Black Ironwood	20' O.A. X 14'-16' SPD.
с с с с к	FE/100	Krugioaenaron jerreum		25' O A X 15'-18' SPD
С С С С К К К	FE/100 LA/100	Lysiloma latisiliquum	Wild Tamarind	25 0.14.14 15 10 51 5.
С С С К К К К К К С С С С С С С С С С С	FE/100 LA/100 ICA/100	Lysiloma latisiliquum Myrciaria cauliflora	Wild Tamarind Jaboticaba	12'-14' O.A. MIN.; 3" CAL. MULTI
	FE/100 LA/100 ICA/100 ICH/100	Lysiloma latisiliquum Myrciaria cauliflora Michelia champaca 'Alba'	Wild Tamarind Jaboticaba Champaca	12'-14' O.A. MIN.; 3" CAL. MULTI 20' O.A.; 8-10' SPD
C C G K K L L M M M M	FE/100 LA/100 ICA/100 ICH/100 IFR/100	Lysiloma latisiliquum Myrciaria cauliflora Michelia champaca 'Alba' Myrcianthes fragrans	Wild Tamarind Jaboticaba Champaca Simpson Stopper	12'-14' O.A. MIN.; 3" CAL. MULTI 20' O.A.; 8-10' SPD 12'-14' O.A. MIN.; 3" CAL. MULTI
	FE/100 LA/100 ICA/100 ICH/100 IFR/100 IIN/100	Nugiodeniron Jerreum Lysiloma latisiliquum Myrciaria cauliflora Michelia champaca 'Alba' Myrcianthes fragrans Mangifera indica	Wild Tamarind Jaboticaba Champaca Simpson Stopper Mango Species	12'-14' O.A. MIN.; 3" CAL. MULTI 20' O.A.; 8-10' SPD 12'-14' O.A. MIN.; 3" CAL. MULTI 18'-20 O.A. X 12'-14'12 SPD.
C C C C C C C C C C C C C C C C C C C	FE/100 LA/100 ICA/100 ICH/100 IFR/100 MIN/100 AQ/100	Kugioona latisiliquum Myrciaria cauliflora Michelia champaca 'Alba' Myrcianthes fragrans Mangifera indica Pachira aquatica	Wild Tamarind Jaboticaba Champaca Simpson Stopper Mango Species Malabar Chestnut	12'-14' O.A. MIN.; 3" CAL. MULTI 20' O.A.; 8-10' SPD 12'-14' O.A. MIN.; 3" CAL. MULTI 18'-20 O.A. X 12'-14'12 SPD. 20'-25 O.A. X 16'-18' SPD.
	FF/100 LA/100 ICA/100 ICH/100 IFR/100 IFR/100 IN/100 PDI/50	Kugiadeniarah jerreum Lysiloma latisiliquum Myrciaria cauliflora Michelia champaca 'Alba' Myrcianthes fragrans Mangifera indica Pachira aquatica Pimenta dioica	Wild Tamarind Jaboticaba Champaca Simpson Stopper Mango Species Malabar Chestnut Allspice	12'-14' O.A. MIN.; 3" CAL. MULTI 20' O.A.; 8-10' SPD 12'-14' O.A. MIN.; 3" CAL. MULTI 18'-20 O.A. X 12'-14'12 SPD. 20'-25 O.A. X 16'-18' SPD. 20'-25 O.A. X 14'-16' SPD.
C C G K K M M M M M M M M M F F F F F	FE/100 LA/100 ICA/100 ICH/100 IFR/100 IFR/100 IFR/100 AQ/100 PDI/50 PRA/50	Kugiadeniarah Jerreum Lysiloma latisiliquum Myrciaria cauliflora Michelia champaca 'Alba' Myrcianthes fragrans Mangifera indica Pachira aquatica Pimenta dioica Pimenta racemosa	Wild Tamarind Jaboticaba Champaca Simpson Stopper Mango Species Malabar Chestnut Allspice Bay Rum	12'-14' O.A. MIN.; 3" CAL. MULTI 20' O.A.; 8-10' SPD 12'-14' O.A. MIN.; 3" CAL. MULTI 18'-20 O.A. X 12'-14'12 SPD. 20'-25 O.A. X 16'-18' SPD. 20'-25 O.A. X 14'-16' SPD. 18'-20 O.A. X 12'-14'12 SPD.
	FE/100 LA/100 ICA/100 ICH/100 IFR/100 IFR/100 IFR/100 AQ/100 PDI/50 PVI-12 PVI-12	Krugiodeniaron Jerreum Lysiloma latisiliquum Myrciaria cauliflora Michelia champaca 'Alba' Myrcianthes fragrans Mangifera indica Pachira aquatica Pimenta dioica Pimenta racemosa Pseudophoenix vinifera Pseudophoenix vinifera	Wild Tamarind Jaboticaba Champaca Simpson Stopper Mango Species Malabar Chestnut Allspice Bay Rum Cherry Palm	12'-14' O.A. MIN.; 3" CAL. MULTI 20' O.A.; 8-10' SPD 12'-14' O.A. MIN.; 3" CAL. MULTI 18'-20 O.A. X 12'-14'12 SPD. 20'-25 O.A. X 16'-18' SPD. 20'-25 O.A. X 14'-16' SPD. 18'-20 O.A. X 12'-14'12 SPD. 12' G.W.
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LANDSCAPE NOTES, SHEET MATRIX, SYM & ZONING TABLE

L-00Plotted On: 6/2/21

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General Requirement:

All tree related work shall be in accordance with the ANSI A-300 standards for tree relocation and maintenance, unless otherwise noted herein.

Contractor Qualifications

- 1.1. Contractor must be a licensed landscape contractor
- 1.2. Contractor must have a minimum of 10 years of proven experience relocating large specimen trees and palms in south Florida.
- 1.3. Contractor must have proven experience relocating trees and palms of the same species and size as those to be relocated for the current project.
- 1.4. Contractor must have a certified arborist on staff.

1. Contractor Requirements

- 1.1. Contractor must visit the jobsite and inspect all trees and palms to be relocated as well as existing site conditions and restrictions prior to preparing bid. 1.2. Contractor must verify and ensure that all trees and palms identified on the plans and those tagged
- on the jobsite correspond as to number and description. Any discrepancies must be brought to the attention of the landscape architect immediately, prior to preparing bid. 1.3. Contractor must conduct all work associated with relocation and maintenance of trees and palms to
- be relocated. No work is to be subcontracted without prior written consent of the owner and/or landscape architect.
- 1.4. Contractor must designate a competent, English-speaking supervisor or foreman to oversee and direct all relocation and maintenance activities as outlined in these specifications. 1.5. Contractor must schedule root pruning to provide the maximum possible time for new root growth.
- Even trees and palms that typically do not require long (or any) root pruning will benefit from more root pruning time; therefore, all trees and palms to be relocated must be root pruned. Contractor must provide a root prune schedule for each tree or palm to be relocated as an attachment to the
- 1.6. Contractor must call Sunshine 811 to have all underground utilities located under or in the vicinity of the current or future locations of all trees and palms to be relocated prior to work commencing.
- 1.7. Contractor must verify with the General Contractor the absence of any underground construction or obstructions (e.g., bulkheads, septic systems, etc.) in the current and future locations of all trees and palms to be relocated.
- 1.8. Contractor must alert the landscape architect of any trees or palms that will not successfully relocate due to poor health prior to beginning root pruning. 1.9. Contractor must flag all proposed transplant locations for the landscape architect's approval a
- minimum of 15 days prior to relocation. 1.10. Contractor must ensure that all trees and palms to be relocated are installed at the correct grade or
- elevation, according to the grading plan. 1.11. Contractor must ensure that all root flares are exposed after relocation.
- 1.12. Contractor must remove all residual roots, stumps, and portions thereof and backfill pits from which
- relocated trees and palms were removed with clean fill flush with the surrounding grade. 1.13. Contractor must repair any damage to other plants, lawn, hardscapes, or new construction within the relocation area at Contractor's expense. Hardscapes include but are not limited to curbs, walks, roads, fences, site furnishings, etc.
- 1.14. Contractor must photographically document new root growth following each root prune and submit this documentation to the landscape architect. The purpose of this requirement is to ensure that sufficient root growth has occurred prior to the second and subsequent root prunes and following the final root prune prior to relocation. 1.15. Contractor must install and maintain protection fencing around each tree and palm to be relocated
- both during root pruning and after relocation. Protection fencing must consist of galvanized welded wire fabric or plastic mesh attached to 4" x 4" posts inserted around the perimeter of the dripline of the tree or palm. Protection fencing must be plumb, taut, and sturdy at all times and must remain in place throughout the root pruning and warranty periods, or as directed by the landscape architect.
- 1.16. Contractor must obtain all necessary or required permits for the relocation and transportation of the trees and palms to be relocated.
- 1.17. Contractor must replace any trees or palms scarred or damaged during relocation, at the Contractor's expense, with the same or similar species, size, and quality. Replacement trees or palms must be approved by the landscape architect prior to procurement, preparation, and/or installation. Replacement trees and palms must be installed within 60 days of notice.
- 1.18. Contractor must maintain all relocated trees and palms for one full year from the date of relocation to the final location. 1.19. Contractor must guarantee all relocated trees and palms for one year from the date of relocation to
- the final location. Guaranty must include tree health and settling.
- 1.20. Contractor must provide all material necessary to perform the work covered herein, including but not limited to backfill material, protection fencing, flagging, additives and supplements, temporary irrigation, burlap, wire, shrink wrap, and all necessary tools and equipment.
- 2. Root Pruning Specifications

2.1. <u>General</u>

- 2.1.1. All trees and palms to be relocated must be watered daily for at least 2-3 days prior to any roots being cut to ensure that they are fully hydrated. Each watering must thoroughly saturate the rootball to its full depth.
- 2.1.2. Each tree and palm must then be watered every other day, not relying on rain, during the entire root pruning process either by a temporary irrigation system or by hand. Each watering must thoroughly saturate the rootball to its full depth.
- 2.1.3. Tree and palm relocation activities must be scheduled so that removal and replanting take place in the same 24-hour period. No trees or palms may be "stockpiled" onsite or offsite for any period of time without prior written approval of the landscape architect. When allowed, approval for the method of "stockpiling" must be obtained from the landscape architect.
- 2.1.4. All digging in the root zone during the root prune process must be done by hand; no machinery will be allowed. Pruning of roots must be done by hand with clean, sharp tools. Do not
- paint cut roots with tree paint or any kind of sealant. 2.1.5. Mycorrhiza (ROOTS® Transplant or equivalent) must be incorporated into the backfill soil prior to backfilling.
- 2.1.6. After each root prune, each section of rootball that is pruned must be wrapped with black plastic and the trench backfilled with original excavated soil. A tree ring with a minimum height of 6" must be constructed 6-12" outside the outermost edge of the rootball and around the entire perimeter of the rootball to direct irrigation water and any added supplements down into the rootball during root regeneration.
- 2.1.7. Once the tree ring is constructed after each root prune, a high-phosphorus root stimulant must be liberally applied to the surface of the rootball and thoroughly watered in to encourage new root growth.
- 2.2. <u>Trees</u>
- 2.2.1. Prior to any roots being cut, all major roots must be identified to determine the rootball diameter based on the relative location and size of the roots.
- 2.2.2. Many tree relocation specifications use "general rules" to calculate minimum rootball diameter, such as multiplying the diameter at breast height (DBH) of the tree by a factor of 10 or allowing a minimum of 9-12" of rootball for every 1" of tree caliper. Others list unrealistic minimum sizes for the rootballs of various tree calipers or heights. In many cases, such approaches result in rootballs that are either too large or too small for a given tree. The following table lists minimum rootball diameters based on real-world experience of tree relocation specialists in south Florida:

Caliper (inches)	Minimum Rootball Diameter (feet)	Caliper (inches)	Minimum Rootball Diameter (feet)
-4	3	12-14	8
4-5	4	15-17	10
5-7	5	18-24	12-15
3–9	6	25-30	15-25
0-11	7	30+	as needed

2.2.3. Whenever possible, rootballs must be circular in shape with an equal distance from the trunk to the edge of the rootball all around. 2.2.4. Minimum rootball depth must be 24-36" for all trees to be relocated, with the actual depth to

be determined only after a thorough examination of all roots during the initial root inspection and based on the absence of major roots at the bottom of the rootball. Rootballs deeper than 36" may be required for large specimen trees, depending on the relative locations and depths of the major roots as observed during the initial root inspection.

3.1. <u>Palms</u>

Palm Species Sabal/Cabba Queen & Fo Royal & Coo Montgomery Canary Date

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2.2.5. As a general rule, minimum root prune time for trees with a DBH of less than 10" is 12 weeks. The first root prune must be on two opposing sides of the rootball, with the second root prune on one of the other two sides done a minimum of 6 weeks later, and a third root prune on the last side done a minimum of 3 weeks after that. The second and third root prunes may only be done when healthy new root growth from earlier root prunes is evident (see Section 2.14 above for specifications on photographically documenting new root growth during the root prune process). More time may be needed during the cooler months of the year.

2.2.6. As a general rule, minimum root prune time for trees with a DBH of 10" or greater is 24 weeks. The first root prune must be on two opposing sides of the rootball, with the second root prune on one of the other two sides done a minimum of 12 weeks later, and a third root prune on the last side done a minimum of 6 weeks after that. The second and third root prunes may only be done when healthy new root arowth from earlier root prunes is evident (see Section 2.14 above for specifications on photographically documenting new root growth during the root prune process). More time may be needed during the cooler months of the year. 2.2.7. Certain hardwood trees and gymnosperms require longer root pruning times. These include, but

are not limited to, the following: • Avocado (Persea americana)

•Black Olive (Bucida buceras)

•Bridalveil (Caesalpinia granadillo) • Cassias (all species of Cassia)

•Lignum Vitae (Guaiacum sanctum & G. officinale)

• Podocarpus (Podocarpus sp.) •Live Oak (Quercus virginiana)•Mahogany (Swietenia mahagoni)

•Mango (Mangifera indica)

• Pigeon Plum (Coccoloba diversifolia) • Sweet Acacia (Acacia farnesiana)

• Verawood (Bulnesia arborea)

• Wild Tamarind (Lysiloma latisiliguum & L. sabicu) For these trees, the minimum root prune times discussed in Sections 3.2.5 and 3.2.6 above may be insufficient. Only when sufficient new root growth has taken place following an earlier root prune can the next root prune be done, and only when sufficient new root growth has taken place following the final root prune may the tree be relocated (see Section 2.14 above for specifications on photographically documenting new root growth during the root prune process).

3.1.1. The following table lists minimum rootball diameters for various species of palms based on real-world experience of relocation specialists in south Florida: Pootball Specifications

5	Noorball Specifications
ige Palm	36" diameter
extail Palms	12" from trunk in all directions
conut Palms	18-24" from trunk in all directions
Palm	18-24" from trunk in all directions
Palm	24" from trunk in all directions
/	- - - - - - - - - -

Slow-growing Palms (see Sec. 3.3.4) 24" from trunk in all directions

3.1.2. Palm rootballs must be a minimum of 24" deep. Whenever possible, rootballs must be circular in shape with an equal distance from the trunk to the edge of the rootball all around. 3.1.3. As a general rule, minimum root prune time for palms is 6-8 weeks. The first root prune must be on two opposing sides of the rootball, with the second root prune on one of the other two sides done a minimum of 3-4 weeks later, and a third root prune on the last side done a minimum of 4.5-6 weeks after that. The second and third root prunes may only be done when healthy new root growth from earlier root prunes is evident (see Section 2.14 above for specifications on photographically documenting new root growth during the root prune process). More time may be needed during the cooler months of the year.

3.1.4. Certain palms, in particular those that are slow growing, require longer root pruning time. These include, but are not limited to, the following:

species of Archontophoenix

species of Corypha merican Oil Palms (all species of Attalea)

ismarck Palm (Bismarckia nobilis)

uban & Caribbean Copernicia uban Belly Palm (Gastrococos crispa)• Gingerbread/Doum Palms (all species of Hyphaene)

almyra Palms (all species of Borassus)

atake Palm (Satakentia liukiuensis) • Saw Palmetto (Serenoa repens)

• Silver Palm (Coccothrinax araentata)

•Zombie Palm (Zombia antillarum)

•For these palms, the minimum root pruning time is 4-6 months or greater. Only when sufficient new root growth has taken place following an earlier root prune can the next root prune be done, and only when sufficient new root growth has taken place following the final root prune may the tree be relocated (see Section 2.14 above for specifications on photographically documenting new root growth during the root prune process).

4. Canopy Pruning Specifications

4.1.1. Prior to relocation, the canopy of each tree to be relocated must be selectively pruned to remove crossing, dead, diseased, broken, and low-hanging branches that may interfere with construction activities, or that may interfere or restrict strapping or lifting the tree during relocation. 4.1.2. For trees being relocated onsite, the canopy may be selectively thinned and reduced by no more than 1/3 of the overall canopy mass, at the direction of the landscape architect; however, the basic shape, form, and character of the tree must be preserved.

4.1.3. For trees being relocated offsite, the canopy must be pruned, at the direction of the landscape architect, to fit on the trailer for transport. Every effort must be made to retain as many large branches as possible and to preserve as much of the shape, form, and character of the tree as possible to the widest load width allowable by the Florida Department of Transportation. Contractor must obtain all necessary permits and escorts to transport wide loads, per Florida law. 4.1.4. All canopy pruning must be conducted following ANSI A-300 Tree Pruning Standards and Best

Management Practices. 4.1.5. All debris generated during canopy pruning must be removed offsite and disposed.

4.2. <u>Palms</u>

4.2.1. It is well known that some palms survive relocation better when all of the leaves are removed (e.g., Cabbage Palm, Sabal palmetto), and that other palms benefit from having their leaves cut in half during relocation (e.g., Coconut Palm, Cocos nucifera). Both of these horticultural practices, while true, are only applicable when palms are not root pruned. Leaves do not need to be cut in half or removed from palms that are adequately root pruned. On occasion when sufficient root pruning time is not available, palms to be relocated may have their leaves cut in half or removed entirely at the direction of the landscape architect. 4.2.2. Palm leaves must be tied up with 2-ply biodegradable twine prior to relocation to prevent

mechanical damage during the relocation process. 4.2.3. Palm trunks shall only be "cleaned up" according to the landscape architect's specifications specific to each palm.

5. Relocation Specifications

5.1. <u>General</u>

5.1.1. All trees and palms to be relocated must be watered daily for at least 5 days prior to any relocation to ensure that they are fully hydrated. Each watering must thoroughly saturate the rootball to its full depth.

5.1.2. All rootballs must be wrapped in burlap and then tightly wire-wrapped (using Redline horse wire or equivalent) to keep the entire rootball intact during relocation. Trees and palms growing in limestone must be dug and relocated with the roots attached to a section of rock as part of the rootball, such that the roots remain intact. Rootballs coming from sand or sandy soil may also need to be boxed prior to relocation, at the discretion of the landscape architect.

- during transport.
- (no more than 2" higher) final grade.
- the balancing strap.

- to backfilling.
- specifications.)
- bracing. Bracing must remain in place for a minimum of one year.
- any supplements that are added down into the rootball during root regeneration.
- to the surface of the rootball and thoroughly watered in.
- any signs of stress become apparent.
- Mulch must not be applied or allowed to accumulate directly against the trunk.

5.2 Special Conditions

Multi-trunk trees and palms must be relocated as one unit with a single rootball. 5.2.1 5.2.2 Planting pits for Edible Date Palms (Phoenix dactylifera) must be backfilled with pure DOT silica sand.

6. Maintenance Specifications

6.1 <u>General</u>

6.1.1 All relocated trees and palms must be maintained for one year from the date of relocation to their final locations.

- third day for the next 6-8 weeks.
- landscape architect and/or client. initial preventative maintenance.
- 6.1.5 Every three months thereafter, a high-phosphorus root stimulant must be applied to the continuing preventative maintenance.
- 6.1.6 Irrigation and bracing must be checked and each tree or palm thoroughly inspected for signs of stress, disease, or pest problems on a monthly basis.

<u>Shade Trees</u>

- 6.1.7 Immediately after relocation to the final location and every three months thereafter, a rate, spread evenly across the surface of the rootball.
- 6.1.8 Foliar feed four times per year.

6.2. <u>Flowering Trees</u>

rate, spread evenly across the surface of the rootball. 6.2.2. Foliar feed four times per year.

6.3. <u>Palms</u>

- recommended label rate, spread evenly across the surface of the rootball. 6.3.3. Foliar feed six times per year.

7. Warranty

- final locations.
- 7.2. If a tree or palm dies within the 1-year warranty period, it must be removed and replaced at Contractor's expense.
- replaced at the Contractor's expense. The decision to replace based on poor health is at the discretion of the landscape architect.
- landscape architect, it must be raised to the correct grade at Contractor's expense.



5.1.3. Trees and palms being relocated offsite must have their entire rootballs thoroughly and tightly wrapped with plastic shrink wrap on the outside of the wire wrap, and the entire tree or palm (including canopy, trunk, and rootball) must be covered with a breathable tarp (e.g., shade cloth)

5.1.4. New planting pits for relocated trees and palms must be prepared prior to lifting the palm or tree from its current location and must be at least 3-4 feet wider than the rootball and the same depth as the rootball, such that the final elevation of the top of the rootball is at or slightly above

5.1.5. Trees and palms to be relocated must be lifted by the rootball only, using appropriately sized (length and strength) lifting straps or chains. During lifting, the tree or palm must be balanced in a more-or-less upright position, with the strap on the trunk used only for balancing and maneuvering the tree or palm into position. No chains may be used around or against the trunk at any time. At no time shall 100% of the weight of the tree or palm be on the strap attached to the trunk. Trunks must be heavily padded with 30-60 layers (depending on size and weight) of burlap beneath

5.1.6. Trees and palms must be lifted with a crane or backhoe appropriately sized for the size and weight of the tree or palm and lifted or carried directly to the final install location or transport

5.1.7. Once lifting begins, any uncut roots under or around the rootball that may yet remain must be immediately severed with hand pruning tools to minimize tearing and root damage. 5.1.8. Agriform planting tablets (or approved equivalent) must be evenly distributed around the perimeter of the planting pit at the rate of 2 tablets per 1" trunk caliper prior to backfillina. 5.1.9. Mycorrhiza (ROOTS® Transplant or equivalent) must be incorporated into the backfill soil prior

5.1.10. Relocated trees and palms must be centered in the planting pit, and the pit backfilled using a 1:1 mixture of existing soil and 80:20 (DOT sand:muck) soil mix thoroughly blended together. Do not use muddy soil as backfill. (See 5.2.2 below for special conditions regarding date palm backfill

5.1.11. Small trees and palms must be firmly braced using a minimum of four 4" x 4" wooden braces attached to 2" x 4" wooden battens held in place with two steel bands. Larger trees may require 6" x 6" wooden posts or even telephone poles to provide sufficient bracing strength to prevent toppling during wind events. A sufficient number of battens must be strategically placed around the trunk such that the steel bands never contact the trunk. No burlap is to remain under the wooden battens on trees during bracing, but several layers of burlap should be left under the wooden battens when bracing palms. Nails shall never be driven directly into the trunk during

5.1.12. A tree ring with a minimum height of 6" must be constructed 6-12" outside the outermost edge of the rootball and around the entire perimeter of the rootball to direct irrigation water and 5.1.13. Once the tree ring is constructed, a high-phosphorus root stimulant must be liberally applied

5.1.14. Rootballs must be thoroughly watered in using a hose and a Johnson bar inserted to the very bottom of the rootball and swung back and forth to prevent formation of air pockets. The Johnson bar technique must be repeated at least once more within one week after relocation, and again if

5.1.15. Organic mulch (melaleuca is preferred) must be applied within 48 hours of relocation at a depth of 3-4" over the entire top of the rootball from the tree ring to within 6" of the trunk. 5.1.16. Pits from which the relocated trees and palms were removed must be cleaned of all residual roots, stumps, and portions thereof and backfilled with clean fill flush with the surrounding grade.

6.1.2 Whenever possible, each tree and palm must be watered by a permanent automatic irrigation system following relocation. Each watering must thoroughly saturate the rootball to its full depth; this will require 25-50 gallons of water for small trees and palms, depending on rootball size, while large trees will require a minimum of 10 gallons per foot of rootball diameter (i.e., a 10' diameter rootball will require a minimum of 100 gallons per watering event). Watering frequency must be every day for the first two weeks, every other day for the next three weeks, and every

6.1.3 When an automatic irrigation system is not possible, contractor is responsible for hand watering relocated trees and palms throughout the maintenance period and until final acceptance by the

6.1.4 Immediately after relocation to the final location, a high-phosphorus root stimulant must be applied to the surface of the rootball at the recommended label rate and watered in with a drench consisting of a systemic insecticide and a contact root rot fungicide, following label instructions, as

surface of the rootball at the recommended label rate and watered in with a drench consisting of a systemic insecticide and a broad-spectrum systemic fungicide, following label instructions, as

high-quality, slow-release 15-2-15 granular fertilizer must be applied, at the recommended label

6.2.1. Immediately after relocation to the final location and every three months thereafter, a high-quality, slow-release 5-10-15 granular fertilizer must be applied, at the recommended label

6.3.1. String must be removed from the tied up leaves immediately after relocation to the final location if the palm was root pruned or within 30-45 days after relocation on the occasion the landscape architect approved relocation without root pruning due to time constraints. 6.3.2. Immediately after relocation to the final location and every three months thereafter, a high-quality, slow-release 8-4-12 granular palm fertilizer with minors must be applied, at the

7.1. All relocated trees and palms must be guaranteed for one year from the date of relocation to their

7.3. If a tree or palm performs poorly within the 1-year warranty period, it must be removed and

7.4. If a tree or palm settles to an unhealthy depth within the 1-year warranty period, as deemed by the

TREE AND PALM RELOCATION & MAINT. SPECIFICATIONS





TREE DISPOSITION LEGEND :



ADJACENT RESIDENCE (WEST)



TREES AN											
TREES AND PA	ALMS TO REM	/AIN	Critical Root Zone	Tree Protection Zone							
IREE #	QIY	DBH (IN)	(CRZ)	(TPZ)	HI (FI)	SPD (FT)	Latin name	COMMON NAME	DISPOSITION	CONDITION	SPECIMEN / NON-SPECI
TREES REMO	/ED WITH MIT	IGATION REQUIR	EMETS								
TREE #	οτν		Critical Root Zone	Tree Protection Zone	HT (ET)	SPD (ET)	l atin namo			CONDITION	
15	1	25	(CRZ)	(172)	25	25	Eigus benjamina	Weeping Fig	REMOVE	POOR	
26	1	10			20	20	Manaifera indica	Mango	REMOVE	GOOD	
20	1	35			20	20	mangnera maica	Wango	KLINOVL	0000	
PALMS REMO	VED WITH MI	IGATION REQUIR	EMENTS								
TREE #	QTY	DBH (IN)	Critical Root Zone	Tree Protection Zone	HT (FT)	SPD (FT)	Latin name	COMMON NAME	DISPOSITION	CONDITION	SPECIMEN / NON-SPECI
1	1	18	(CKZ)	(172)	35	20	Rovstonea regia	Roval Palm	REMOVE	GOOD	SPECIMEN
3	1	20			35	15	Rovstonea regia	Roval Palm	REMOVE	GOOD	SPECIMEN
7	1	8			18	12	Livistona chinensis	Chinese Fan Palm	REMOVE	FAIR	NON-SPECIMEN
14A	1	8			16	10	Livistona chinensis	Chinese Fan Palm	REMOVE	FAIR	NON-SPECIMEN
16	1	18			50	20	Roystonea regia	Royal Palm	REMOVE	GOOD	SPECIMEN
17	1	16			50	20	Roystonea regia	Royal Palm	REMOVE	GOOD	NON-SPECIMEN
18	1	8			16	10	Roystonea regia	Royal Palm	REMOVE	GOOD	NON-SPECIMEN
20	1	20			50	15	Roystonea regia	Royal Palm	REMOVE	GOOD	SPECIMEN
21	1	20			50	15	Roystonea regia	Royal Palm	REMOVE	GOOD	SPECIMEN
22	1	18			50	15	Roystonea regia	Royal Palm	REMOVE	GOOD	SPECIMEN
23	1	16			50	15	Roystonea regia	Royal Palm	REMOVE	GOOD	NON-SPECIMEN
24	1	16			50	15	Roystonea regia	Royal Palm	REMOVE	GOOD	NON-SPECIMEN
25	1	16			55	15	Roystonea regia	Royal Palm	REMOVE	GOOD	NON-SPECIMEN
31	1	CLUSTER			16	8	Adonidia merrillii	Christmas Palm	REMOVE	GOOD	NON-SPECIMEN
32	1	CLUSTER			22	8	Adonidia merrillii	Christmas Palm	REMOVE	GOOD	NON-SPECIMEN
34	1				22	8	Adonidia merrillii	Christmas Palm	REMOVE	GOOD	NON-SPECIMEN
35	1	TRIPLE			20	8	Adonidia merrillil	Christmas Paim	REMOVE	GOOD	NON-SPECIMEN
TREES AND PA	ALMS TO BE	RELUCATED	Critical Root Zone	Tree Protection Zone							
TREE #	QTY	DBH (IN)	(CRZ)	(TPZ)	HT (FT)	SPD (FT)	Latin name	COMMON NAME	DISPOSITION	CONDITION	SPECIMEN / NON-SPECI
2	1	24			35	15	Phoenix canariensis	Canary Date Palm	REMAIN	FAIR	SPECIMEN
4	1	8			16	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
5	1	10			30	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
6	1	8			25	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
7A	1	10			45	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
8	1	8			25	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
9	1	6			10	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
10	1	10			25	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
11	1	8			30	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
12	1	8			16	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
13	1	7			25	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
14	1	7			25	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
19	1	11			35	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
27	1	0			25	12	Cocos nucifera	Coconut Palm	RELOCATE	GOOD	NON-SPECIMEN
28	1	e e			20	12	Cocos nucifora	Coconut Palm	RELOCATE	GOOD	
20	1	7			20	12	Cooos nucifera	Coconut Palm	RELOCATE	6000	
30 79	1	0			20	10	Cocos nucifera	Coconut Palm		G00D	
30	40	o			20	10	COLOS HUCHEIA	COCOTILL Faill	RELUGATE	0000	NUN-OFECIMEN

TOTAL PALMS REMOVED WITH MITIGATION = 17

CITY OF MIAMI BEACH TREE REPLACEMENT CHART

Total Diameter of Tree(s) to be Removed	Total Number of Replacement Tree(s)	Total Number of Replacement Tree(s)	Contribution to Tree Trust
(DBH Total Amount of Inches)	(Minimum 2" DBH & 12' HT.)	(Minimum 4" DBH & 16' HT.)	Fund
2"-3"	1	0	\$1,000.00
4"-6"	2	1	\$2,000.00
7"-12"	4	2	\$4,000.00
13"-18"	6	3	\$6,000.00
19"-24"	8	4	\$8,000.00
25"-30"	10	5	\$10,000.00
31"-36"	12	6	\$12,000.00
37"-42"	14	7	\$14,000.00
43"-48"	16	8	\$16,000.00
49"-60"	20	10	\$20,000.00

SPECIES DIVERSITY CHART

Required Number of Trees	Required Number of Tree Species
11-20	2
21-50	4
51 or Greater	6
51 Of Greater	0

Total Inches Required to Replace = 30 See Tree Replacement Calculations Total Required Species = 2

Total Total

Total Native Replacen

New Total N

New Total

One Re



TREE REPLACEMENT CALCULATIONS Total Tree Inches Removed =

Total Palms Removed =	17		
No. of Replacement Trees Required (2" DBH; 12' ht. Min.) = OR	12 (trees)	or	24 (inches)
No. of Replacement Trees Required (4" DBH; 16' ht. Min.) =	6 (trees)	or	24 (inches)
ment Trees Provided up to 30% @ (1.5" DBH; 10' ht. Min.) =	4 (trees)	or	5 (inches)
New Total Tree Inches Removed =	30		
No. of Replacement Trees Required (2" DBH; 12' ht. Min.) = OR	10 (trees)	or	20 (inches)
No. of Replacement Trees Required (4" DBH; 16' ht. Min.) = PLUS	5 (trees)	or	20 (inches)
eplacement Tree Per Palm Removed (2" DBH; 12' ht. Min.) =	17 (trees)	or	34 (inches)
otal Replacement Trees Required @ 2" DBH; 12' ht.; Min.) =	27		
otal Replacement Trees Required @ 4" DBH; 16' ht.; Min.) =	22		

35

See L-001 & L-003 for Tree Replacement Specifiactions & Locations



• •

TREE

PALM

MULTI TRUNK

PALM

TREE DISPOSITION LEGEND : REMAIN REMOVE RELOCATE DISPOSITION

+

7.33' N.G.V.D. NEIGHBORS GRADE



ADJACENT RESIDENCE (WEST)









WATER METER

4.75′ N.G.V.D. NEIGHBORS GRADE

4.33′ N.G.∨.D. NEIGHBORS GRADE

RESIDENCE (EAST)

(110)

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SECTION DETAIL REFERENCE Detail Number Sheet Number

GENERAL DETAIL REFERENCE Detail Number Sheet Number

PLAN ENLARGEMENT REFERENCE Detail Number Sheet Number

DETAIL ENLARGEMENT REFERENCE

MATCHLINE

FINISH REFERENCE See Finish Schedule Letter = Furnishing Number = Material

PLANT TAG Quantity Symbol

EXISTING CONTOUR

PROPOSED CONTOUR

STORMWATER FLOW DIRECTION

SPOT ELEVATION

COORDINATE REFERENCE

MATERIALS LEGEND

_CC/3 PLANTING AREAS

GRAVEL

↑ 7.21′ I NEIGHBORS

SOD TURF

NOTES:

- 1. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE EXISTING FIELD CONDITIONS THAT MAY AFFECT THE WORK. WITH PRIOR APPROVAL, ADJUST LOCATIONS AND QUANTITIES OF THE PLANTING SHOWN ON THESE PLANS TO MEET EXISTING SITE CONDITIONS
- 2. UNLESS OTHERWISE NOTED OR INDICATED, ALL EXISTING VEGETATION IS TO REMAIN
- 3. PRIOR TO PROCUREMENT OR INSTALLATION OF PLANT MATERIAL, THE CONTRACTOR MUST VERIFY THE DEPTH OF UTILITIES TO INSURE ADEQUATE DEPTH IS AVAILABLE FOR PLANTING OF PROPOSED ROOT BALLS
- PRIOR TO DIGGING CALL SUNSHINE STATE ONE CALL AT 1-800-432-4770 FOR UTILITY LOCATIONS.



3/32" = 1'-0"



Plotted On: 6/2/21

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TREE

PALM

MULTI TRUNK

PALM

TREE DISPOSITION LEGEND : REMAIN REMOVE RELOCATE DISPOSITION

+

7.33' N.G.V.D. NEIGHBORS GRADE



ADJACENT RESIDENCE (WEST)









WATER METER

4.75′ N.G.∨.D.
NEIGHBORS GRADE

4.33′ N.G.∨.D. NEIGHBORS GRADE

ADJACENT RESIDENCE (EAST)

4.33⁴ IGHBI

(10)

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(2)



SECTION DETAIL REFERENCE Detail Number Sheet Number

GENERAL DETAIL REFERENCE Detail Number Sheet Number

PLAN ENLARGEMENT REFERENCE Detail Number Sheet Number

DETAIL ENLARGEMENT REFERENCE

MATCHLINE

FINISH REFERENCE See Finish Schedule Letter = Furnishing Number = Material

PLANT TAG Quantity Symbol

EXISTING CONTOUR

PROPOSED CONTOUR

STORMWATER FLOW DIRECTION

SPOT ELEVATION

COORDINATE REFERENCE

MATERIALS LEGEND

_CC/3 PLANTING AREAS

GRAVEL



NOTES:

- 1. THE CONTRACTOR MUST BECOME FAMILIAR WITH THE EXISTING FIELD CONDITIONS THAT MAY AFFECT THE WORK. WITH PRIOR APPROVAL, ADJUST LOCATIONS AND QUANTITIES OF THE PLANTING SHOWN ON THESE PLANS TO MEET EXISTING SITE CONDITIONS
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- PRIOR TO DIGGING CALL SUNSHINE STATE ONE CALL AT 1-800-432-4770 FOR UTILITY LOCATIONS.



3/32" = 1'-0"





