

TRANSPLANT OPERATIONS TO BE SUPERVISED BY AN ISA CERTIFIED ARBORIST.

WOOD BATTENS FOR SUPPORT, UTILIZE BURLAP TO PROTECT TRUNK, DO NOT NAIL TO PALM WOOD BRACES PROVIDED - MININUM OF THREE. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADD BRACING AS NECESSARY TO PROVIDE ADEQUATE SUPPORT. 4" X 4" AS NEEDED FOR ROYAL PALMS.

SET THE PALM NO DEEPER THAN ITS ORIGINAL CONDITION AND WATER TO ELIMINATE AIR POCKETS BACKFILL WITH A MIXTURE OF 50% NATIVE SOIL AND 50% OF 50:50 TOPSOIL:SAND MIXTURE SAUCER ALL AROUND FOR WATER RETENTION POST TRANSPLANT WATERING TO PROVIDE

MOISTURE AND REDUCE ANY EXCESSIVE STRESS DUE TO DESSICATION, WATERING TO BE ADJUSTED ACCORDING TO CONDITIONS AND AT THE SUPERVISION AND DIRECTION OF THE ISA

TREE + PALM TRANSPLANTING PROCEDURAL SPECIFICATION

INCLUDES WATERING, FERTILIZATION, PRUNING, PEST CONTROL, STAKING, ETC

PURPOSE: TO MAXIMIZE THE SUCCESS OF TREE TRANSPLANTING OPERATIONS.

ACCORDING TO ALL APPLICABLE TREE RELOCATION GUIDELINES.

ARBORIST OF RECORD" TO CARRY OUT THE FOLLOWING DUTIES:

N.T.S.

CONTRACTOR SHALL EMPLOY AN ISA CERTIFIED ARBORIST OR BIOLOGIST WITH VERIFIABLE TREE TRANSPLANT EXPERIENCE AS THE "EXPERT

• SHALL DOCUMENT ALL INSPECTIONS AND PROVIDE REPORT TO THE OWNER'S AGENT WITHIN 5 BUSINESS DAYS OF SITE VISIT. • SHALL SUBMIT PRIOR TO FINAL ACCEPTANCE BY OWNER'S AGENT, A POST-TRANSPLANT CARE GUIDE FOR UP TO THREE YEARS THAT

• SHALL MAKE SITE VISITS PRIOR TO AND DURING ANY RELOCATION WORK TO INSPECT THAT PROPER PREPARATION IS PERFORMED

C.M.B. PALM TRANSPLANT DETAIL

## C.M.B. PUBLIC WORKS / GREENSPACE MANAGEMENT CONDITIONS

SHOULD ANY EXISTING TREES OR PALMS BE DAMAGED THEY SHALL BE EVALUATED BY THE CITY URBAN FORESTER TO DETERMINE CORRECTIVE ACTIONS THAT MAY INCLUDE REMOVAL, CORRECTIVE PRUNING AND OR REPLACEMENT. ANY CORRECTIVE ACTIONS REQUIRED SHALL BE PERFORMED IN ACCORDANCE WITH MIAMI BEACH CODE, THE MOST CURRENT ANSI A-300 PRUNING STANDARDS AND OR AN ISSUED CITY OF MIAMI BEACH TREE WORK PERMIT. ANY CORRECTIVE PRUNING REQUIRED SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST AND THE CITY URBAN FORESTER SHALL BE CONSULTED.

. CARE SHALL BE TAKEN TO AVOID UTILITY OR CONSTRUCTION TRENCHING THROUGH EXISTING TREE OR PALM DRIPLINES OF TREES SLATED TO REMAIN IN PLACE OR BE RELOCATED. IF CONSTRUCTION REQUIRES THE CUTTING OF ANY ROOTS WITH A DIAMETER OF 2" OR GREATER, ROOTS SHALL BE CLEANLY CUT WITH A SHARP TOOL, AS DIRECTED BY AN ISA CERTIFIED ARBORIST, AND IN ACCORDANCE WITH THE ANSI A-300 STANDARDS. CUT ROOTS SHOULD BE IMMEDIATELY COVERED WITH SOIL TO PREVENT DRYING. ROOTS SHOULD NOT BE TORN OR BROKEN BY HEAVY EQUIPMENT, AND NO SHREDDED, RAGGED OR BROKEN ROOT ENDS SHOULD BE LEFT. THE CITY URBAN FORESTER SHALL BE NOTIFIED IN WRITING AND OR CONSULTED PRIOR TO ANY ROOT PRUNING TAKING

3. SHOULD ANY CORRECTIVE STRUCTURAL PRUNING BE NECESSARY FOR TREES PROPOSED TO REMAIN ONSITE, DUE TO CLEARANCE, SAFETY OR FOR CONSTRUCTION RELATED REASONS THE PRUNING SHALL BE PERFORMED BY AN ISA OR ASCA CERTIFED ARBORIST IN ACCORDANCE WITH THE LATEST VERSION OF THE ANSI A-300 PRUNING STANDARDS AND GOOD HORTICULTURAL PRACTICES. THE CITY URBAN FORESTER SHALL BE PROVIDED WITH A WRITTEN COPY OF THE PROPOSED PRUNING PLAN INCLUDING THE REASONS WHY PRUNING IS NECESSARY, PRIOR TO THE PRUNING ACTVITIES TAKING PLACE.

4. ANY ROOT PRUNING, IF REQUIRED DURING THE PROJECT, SHALL BE CONDUCTED UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST OR ACSA CONSULTING ARBORIST. ANY ROOT PRUNING, IF REQUIRED, WILL BE LIMITED TO WHAT IS ABSOLUTELY NECESSARY FOR CONSTRUCTION. ADDITIONALLY, AND ROOT PRUNING WORK WILL BE DOCUMENTED WITH COLOR PICTURES AND PROVIDED TO MR. MARK WILLIAMS AT C.M.B. PUBLIC WORKS / GREENSPACE MANAGEMENT + MR. RICARDO GUZMAN AT C.M.B. PLANNING + ZONING DEPARTMENTS ON A REGULAR BASIS.

#### C.M.B. CANOPY MITIGATION NOTES

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THE CANOPY MITIGATION OF 1,308 SF AS REQUIRED BY C.M.D. CHAPTER 46 - ENVIRONMENT, DIVISION 2, TREE PRESERVATION and PROTECTION ORDINANCE HAS BEEN MET AND EXCEEDED. A TOTAL 1,902 SF OF CANOPY HAS BEEN PROVIDED. ALL STANDARDS SHALL MEET OR EXCEED THE ANSI A300 (PART 6)-2005 (TRANSPLANTING) STANDARD PRACTICES AND ANY APPLICABLE LOCAL

> **CANOPY MITIGATION SUMMARY** - (3) BRIDAL VEIL TREES: 900 SF (MB category I @ 300 SF each)

- (3) NATIVE PIGEON PLUM TREES: 450 SF (MB category II @ 150 SF each) - (3) NATIVE SIMPSON'S STOPPER TREES: 300 SF (MB Category III @ 100 SF each) - (5) COCONUT PALMS: 250 SF (MB category IV @ 50 SF each)

**ARCHITECTURE UPDATES 05.16.18** 

1. UPDATED CANOPY MITIGATION TO REFLECT THE MINOR LANDSCAPE MODIFICATIONS, ALL CANOPY MITIGATION REQUIREMENTS HAVE BEEN MET AND EXCEEDED.



## C.M.B. EXISTING TREE SURVEY LEGEND

TREE or PALM TO BE REMOVED. SEE CHART.

REL # PALM TO BE RELOCATED

\_\_\_\_ TREE / PALM PROTECTION FENCE

# C.M.B. EXISTING TREE INVENTORY + DISPOSITION CHART - 409 E. DILIDO DR.

NUMBER	COMMON NAME	BOTANICAL NAME	SPECIMEN	D.B.H. (IN)	HEIGHT (FT)	SPREAD (FT)	CONDITION	DISPOSITION	CANOPY AREA	CANOPY LOSS / MIT. REQ. (SF)	COMMENTS
#1	Citrus Tree	Citrus spp.	NO	+/- 5"	+/+ 10'	+/- 8'	GOOD	REMOVE	50 SF	50 SF	IN CONFLICT WITH DESIGN. MITITGATION PROVIDED
	Barbados Cherry	Malpighia emarginata	NO	+/- 5"	+/- 10'	+/- 8'	GOOD	REMOVE	50 SF	50 SF	IN CONFLICT WITH DESIGN. MITITGATION PROVIDED
#3	Washington Palm	Wasningtonia robusta	YES	+/- 18"	+/+ 40'	+/- 12'	GOOD	REMOVE	113 SF	113 x 2 = 226 SF	IN CONFLICT WITH DESIGN. MITITGATION PROVIDED
#4		Roystonea elata	YES	+/- 20"	F/- 30'	+/- 20'	GOOD	REMOVE	314 SF	314 x 2 = 628 SF	IN CONFLICT WITH DESIGN. MITITGATION PROVIDED
#5	Royal Palm	Roystonea elata	YES	+/- 24"	+/- 30'	+/- 20'	GOOD	RELOCATE	314 SF	0 SF	PRESERVE + PROTECT DURING CONSTRUCTION
#6	Coconut Palm	Cocos nucifera	YES	+/- 14"	+/- 30'	+/- 20'	GOOD	RELOCATE	314 SF	0 SF	PRESERVE + PROTECT DURING CONSTRUCTION
	Frangipant Tree	Plumeria rubra	NO	+/-6"	+/- 15'	+/- 15'	GOOD	REMOVE	177 SF	177 SF	IN CONFLICT WITH DESIGN. MITITGATION PROVIDED
		Eriobotrya japonica	NO	+/- 10"	+/- 20'	+/- 15'	GOOD	REMOVE	177 SF	177 SF	IN CONFLICT WITH DESIGN. MITITGATION PROVIDED

TOTAL MITIGATION REQUIRED: 1,308 SF TOTAL MITIGATION PROVIDED: 1,902 SF

## C.M.B. CHAPTER 46, DIVISION 2 - TREE INVENTORY + DISPOSITION PLAN NOTES

- THIS 'EXISTING TREE INVENTORY + DISPOSITION PLAN' HAS BEEN PREPARED IN ACCORDANCE WITH THE CITY OF MIAMI BEACH, CHAPTER 46 ENVIRONMENT, DIVISION 2, TREE PRESERVATION and PROTECTION ORDINANCE.
- 2. EXISTING TREE, PALM, AND VEGETATION INFORMATION AS INDICATED HAS BEEN PREPARED AS AN OVERLAY ON THE SURVEY PREPARED BY LEVEL-TECH SURVEYORS, LLC. DATED 09.09.15
- 3. THE INFORMATION AS PRESENTED HEREIN HAS BEEN FIELD VERIFIED BY THE LANDSCAPE ARCHITECT ON 10.22.15.
- 4. THE OWNER RESERVES THE RIGHT TO REMOVE ANY VEGETATION NOT LOCATED WITHIN THE CITY R.O.W. w/ a D.B.H. OF LESS THAN 8" WITHOUT OBTAINING A TREE REMOVAL PERMIT.



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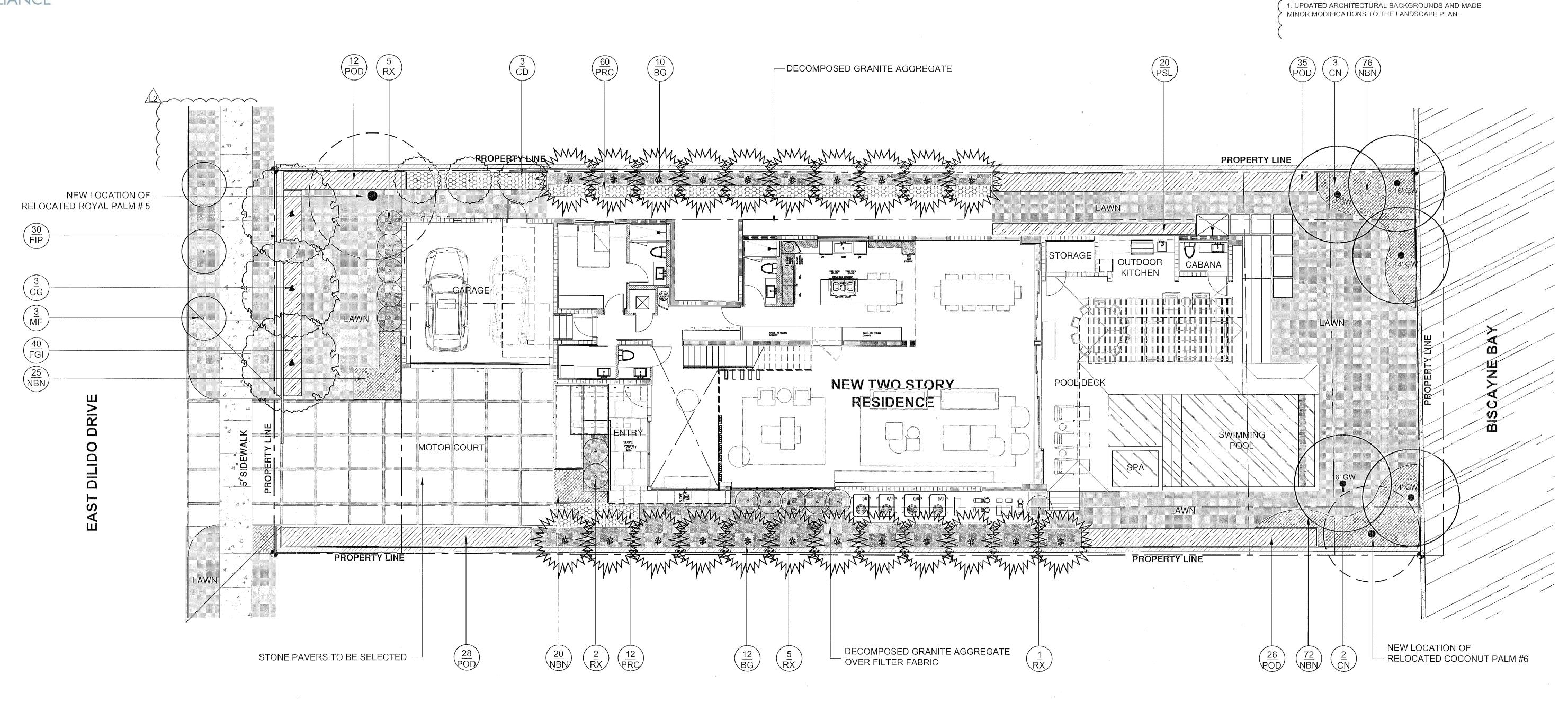
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#### LANDSCAPE PLAN NOTES

- CONTRACTOR SHALL REMOVE ALL STAKES, POLES, WELLINGTON TAPE AND / OR BRACING MATERIALS FROM ALL PALMS, TREES, AND SHRUBS, WITHIN (1) YEAR OF INSTALLATION. THIS NOTE IS APPLICABLE TO ALL PLANTING DETAILS ON THIS SHEET.
- 2. EXISTING SITE CONDITIONS HAVE BEEN FIELD VERIFIED BY LANDSCAPE ARCHITECT.
- 3. ALL LANDSCAPE AREAS TO BE 100% COVERED BY A FULLY AUTOMATIC IRRIGATION SYSTEM WITH RAIN SENSOR. CONTRACTOR TO PROVIDE SHOP DRAWING OF MODIFIED IRRIGATION SYSTEM TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.
- 4. SHEETS L-1 thru L-4 TO BE UTILIZED FOR LANDSCAPE AND IRRIGATION PURPOSES ONLY. ALL SITE IMPROVEMENTS INCLUDING GRADING AND DRAINAGE TO BE BY OTHERS. REFER TO ARCHITECTURE AND ENGINEERING PLANS FOR ALL ADDITIONAL INFORMATION.



#### LANDSCAPE LEGEND

MIAMI - DADE COUNTY LANDSCAPE ORDINANCE CHAPTER 18-A (RESIDENTIAL VERSION)

3 TREES REQUIRED PER LOT / 9 TREES PROVIDED MEETING MINIMUM REQUIREMENTS
(3 BRIDAL VEIL TREES + 3 NATIVE PIGEON PLUM TREES + 3 NATIVE SIMPSON'S STOPPER TREES

NATIVE TREES

2//////

30% OF REQUIRED TREES OR .30 X 3 = .9 NATIVE TREES REQUIRED / 6 NATIVE TREES PROVIDED (3 NATIVE PIGEON PLUM TREES + 3 NATIVE SIMPSON'S STOPPER TREES PROVIDED)

SHRUBS
10 SHRUBS REQUIRED FOR EACH REQUIRED TREE or 10 X (3) = 30 REQUIRED / 170 SHRUBS PROVIDED

30% OF TOTAL SHRUBS REQUIRED MUST BE NATIVE or .30 X 30 = 9 / 29 NATIVE SHRUBS PROVIDED

29 DWARF BAHAMA SHRUBS PROVIDED

LAWN AREA 50% MAXIMUM OF LANDSCAPE AREA: NEW LAWN AREAS ARE LESS THAN 50% OF LANDSCAPE AREA

IRRIGATION SYSTEM

100% COVERAGE PROVIDED PURSUANT TO MIAMI DADE CODE

#### C.M.B. CANOPY MITIGATION NOTES

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KEY	NATIVE	QTY.	COMMON NAME	BOTANICAL NAME	HEIGHT, SPECIFICATION, & NOTES		
TREES							
CD	YES	3	PIGEON PLUM TREE	Coccoloba diversifolia	65 gallon, 12' overall height min, 6' spread, 3" dbh, 5' c.t., equal to Treeworld Wholesale		
CG	NO	3	BRIDAL VEIL TREE	Caesalpinia granadillo	200 gallon, 16' height min., 8' spread, 6' c.t., standard, specimen to be approved		
CS	YES	ALT	SILVER BUTTONWOOD TREE	Conocarpus erectus 'Sericeus'	100 gallon, 12' overall height, 5' c.t., multitrunk, equal to Treeworld Wholesale		
MF	YES	3	SIMPSON'S STOPPER TREE	Myrcianthes fragrans	100 gallon, 12' overall ht min, 6' spread, 5' c.t., standard, equal to Treeworld Wholesale		
PALMS							
CN	YES	5	'GR. MALAYAN' COCONUT PALM	Cocos nucifera 'Green Malayan'	Full heads, Florida Fancy, see landscape plans for grey wood		
RX	NO	13	LADY PALM	Rhapis excelsa	4' overall height, full to base, equal to Treeworld Wholesale		
вамвоо	1						
BG	NO	22	GRACEFUL BAMBOO	Bambusa textilis 'Gracilis'	65 gallon, 18-20' overall height		
SHRUBS							
FGI	NO	40	FICUS GREEN ISLAND	Ficus microcarpa 'Green Island'	3 gallon, full, 18" x 18" space 18" on center		
POD	NO	101	PODOCARPUS	Podocarpus macrophyllus	45 gallon, 6' height, full, space 18" on center, or to create a consistent hedge		
PSL	YES	29	DWARF BAHAMA COFFEE	Psychotria ligustrifolia	7 gallon, 24" x24", full, space 30" on center		
TROPICA	LS, GROU	IDCOVE	RS, + ACCENTS				
FIP	NO	30	CREEPING FIG	Ficus pumila	1 gallon, full 18" on center		
NBN	NO	193 '	NEOREGELIA BOSSANOVA	Same	1 gallon, full 18" on center		
PRC	NO	72	PHILODENDRON 'ROJO CONGO'	Same	3 gallon, 24" x 24", full 24" on center		
SOD, AG	GREGATE	& MULC	Н				
DGA	3/8" DI	ECOMPO	SED GRANITE AGGREGATE OR STO	NE TO BE SELECTED, INSTALLE	ED OVER FILTER FABRIC AND WEED BARRIER MATERIAL / OLIMAR, 2" MIN. DEPTH		
MLC	DARK BROWN 'AMERIGROW PREMIUM' SHREDDED ORGANIC MULCH (NO CYPRESS), TO BE DETERMINED						
SOD	SEASI	HORE PA	ASPALUM or 'EMPIRE TURF' ZOYSIA	GRASS - OVER 2" TOPSOIL BED	, SEE PLANTING SPECS		

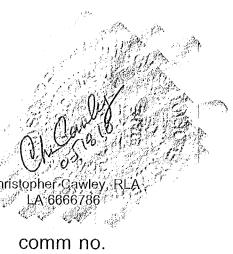
**ARCHITECTURE UPDATES 05.16.18** 

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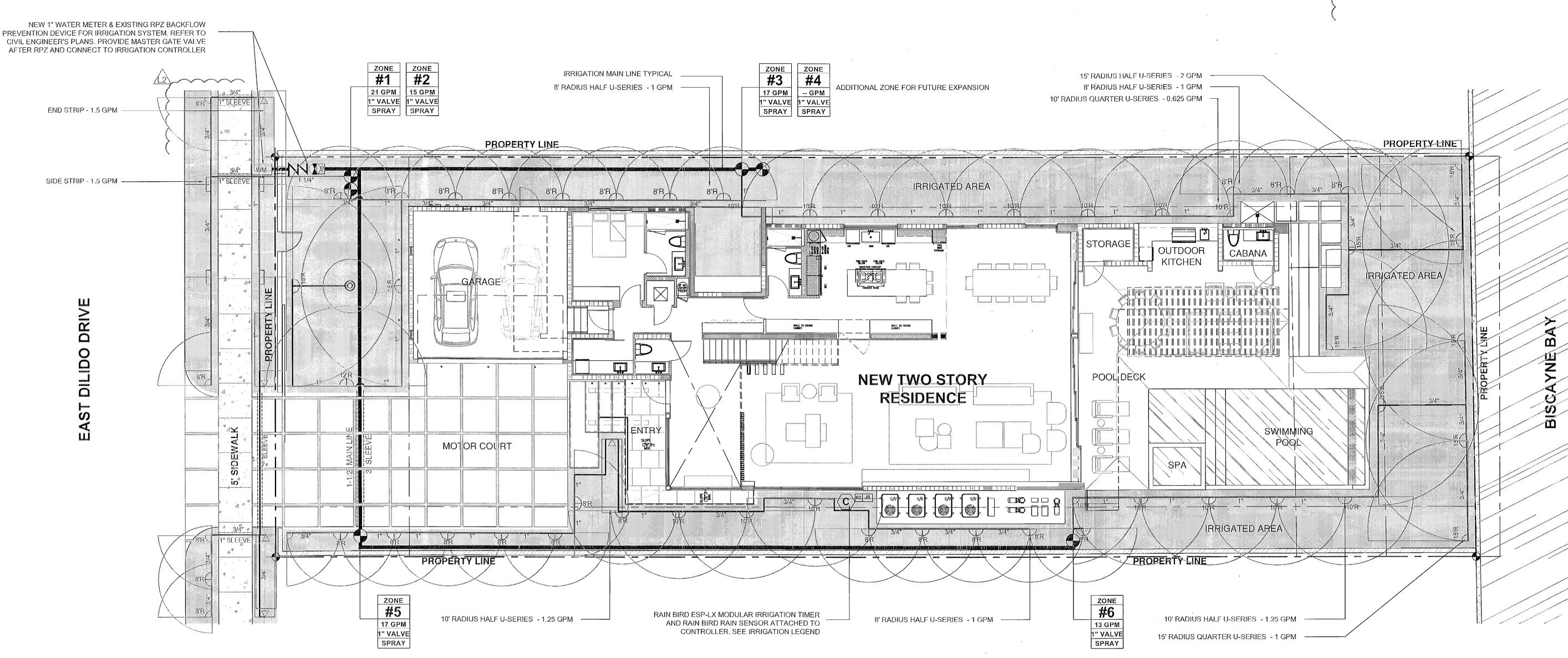
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#### PIPE INSTALLATION + SLEEVE NOTES

	DING CODE - APPENDIX F TION - DEPTH OF COVER	FLORIDA BUILDING CODE - APPENDIX F SLEEVE SIZES - PART V A-6			
VEHICLE	TRAFFIC AREAS	WATER PIPE SIZE	SLEEVE SIZE		
PIPE SIZE (INCHES)	DEPTH OF COVER (INCHES)	3/4"	1 1/2"		
1/2" TO 2 1/2"	18" ТО 24"	1"	2"		
3" TO 5"	24" TO 30"	1 1/4"	2 1/2"		
6" OR GREATER	30 TO 36"	1 1/2"	3"		
NON-TRAFFIC A	ND NON-CULTIVATED AREAS	2"	4"		
PIPE SIZE (INCHES)	DEPTH OF COVER (INCHES)	3"	6"		
1/2" TO 1 1/4"	6" TO 12"	4"	8"		
1 1/2" TO 2"	12" TO 18"	SLEEVES TO EXTEND A MIN. 3' BEYOND ALL			
2 1/2" TO 3"	2 1/2" TO 3" 18" TO 24"		PAVED AREAS, BACKFILL AND COMPACTION		
4" OR LARGER	24" TO 36"	PER APPENDIX F			

## **IRRIGATION INSTALLATION NOTES**

PROVIDE ADDITIONAL ZONES TO ACCOMODATE FUTURE LANDSCAPE EXPANSION LOCATION OF IRRAGTION LINES ARE SHOWN SCHEMATICALLY, FIELD ADJUST AS NECESSARY TO AVOID TRENCHING THROUGH EXISTING TREE OR PALM DRIPLINES

#### **IRRIGATION PLAN NOTES**

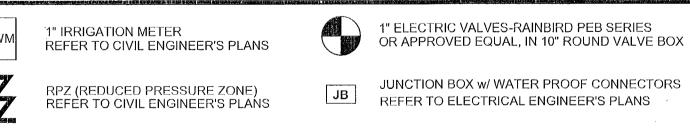
ALL MAIN LINES, LATERAL LINES and IRRIGATION SPRINKLER COMPONENT LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPES AREAS TO RECEIVE 100% COVERAGE WITH A MINIMUM 50% OVERLAP BY A FULLY AUTOMATIC IRRIGATION SYSTEM with RAIN SENSOR. AFTER SITE INVESTIGATION THE LANDSCAPE CONTRACTOR IS TO PROVIDE A 'SHOP DRAWING' DETAILING THE PROPOSED IRRIGATION SYSTEM DESIGN TO THE LANDSCAPE ARCHITECT AND GENERAL CONTRACTOR.

A ROUGH INSPECTION IS REQUIRED BY THE CITY OF MIAMI BEACH PRIOR TO TRENCH BACKFILLING AND A FINAL INSPECTION SHALL BE REQUIRED PRIOR TO COMPLETION OF IRRIGATION WORK.

SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SFWMD) WATER RESTRICTIONS, PHASE II ARE IN EFFECT. NEW LANDSCAPE INSTALLATION SHALL BE EXEMPT PER SFWMD FOR A PERIOD OF SIXTY DAYS AFTER INSTALLATION with CONTRACTOR and/or OWNER TO ASSUME RESPONSIBILITY AFTER 60 DAY PERIOD.

USE EXTREME CAUTION IN ALL AREAS TO AVOID ROOTS OF EXISTING TREES, PALMS + VEGETATION. HAND EXCAVATE AS NECESSARY AND ADJUST ALL MAIN AND LATERAL IRRIGATION LINES BASED ON FIELD CONDITIONAL. TRENCHING THRU ROOT ZONES SHALL BE AVOIDED AND ALL IRRIGATION LINES ARE TO RUN OUTSIDE OF THE ROOT ZONES OF ALL EXISTING VEGETATION

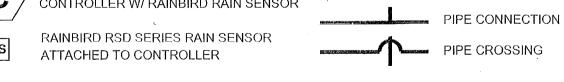
#### IRRIGATION LEGEND



PVC LATERAL LINE (Sch. 160)

PIPE in SLEEVE (See Sizing Chart)

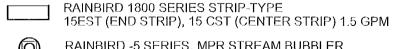




#### ZONE ZONE DESIGNATION & INFORMATION GALLONS PER MINUTE 25 GPM 1" VALVE VALVE SIZE







RAINBIRD -5 SERIES, MPR STREAM BUBBLER NOZZLES, 5' RADIUS, 1.5 GPM

04/29/2016

date:

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IRRIGATION PLAN 1/8" = 1'-0"

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#### LANDSCAPE NOTES

- 1. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE NO. 1 OR BETTER.
- 2. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF, AVOID, AND PROTECT ALL UTILITY LINES, BURIED CABLES, AND OTHER UTILITIES.
- 3. TREE, PALM, ACCENT AND BED LINES ARE TO BE LOCATED IN THE FIELD AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

ANY CHANGES TO R.O.W. (RIGHT OF WAY) MATERIAL IN REGARDS TO PLACEMENT OF SPECIES SHALL REQUIRE THE APPROVAL AND CONSULTATION OF THE CITY URBAN FORESTER AND OR CITY STAFF.

4. ALL PLANTING SOIL SHALL BE 50:50 TOPSOIL:SAND MIX, FREE OF CLAY, STONES, ROCKS, OR OTHER FOREIGN MATTER. THIS SPECIFICATION INCLUDES ALL BACKFILL FOR BERMS AND OTHER LANDSCAPE AREAS.

CARE SHALL BE TAKEN TO AVOID PLACEMENT OF CONSTRUCTION FILL, GRAVEL, AND/OR DEBRIS OVER THE ROOTBALLS OF INSTALLED OR EXISTING TREES AND/OR PALMS ON SITE.

SODDED-LAWN AREAS

2" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT.

GROUNDCOVER PLANTING BEDS:

6" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT

SHRUB AND HEDGE PLANTING AREAS: 12" DEPTH PLANTING SOIL SPREAD IN PLACE- THROUGHOUT.

TREES, PALMS, SPECIMEN PLANT MATERIAL LOCATIONS:

REMOVE ALL LIMEROCK PRESENT TO A DEPTH OF AT LEAST 30"BEFORE PLACING NEW PLANTING SOIL. APPLY NEW CLEAN PLANTING SOIL IN PLANTING AREA AS REQUIRED

LANDSCAPE ISLANDS AND BUILDING FOUNDATIONS:
EXCAVATE AND REMOVE ALL LIMEROCK, ROCKS, DEBRIS. ETC. TO A DEPTH OF 12" AND
BACKFILL W/ 50:50 TOPSOIL:SAND MIX. BUILDING FOUNDATIONS SHALL BE THE SAME
DEPTH TO A WIDTH OF 36" FROM THE BUILDING BASE.

- 5. THE SITE CONTRACTOR SHALL BE RESPONSIBLE TO BRING ALL GRADES TO WITHIN 2" OF FINAL GRADES. THIS SHALL INCLUDE A 2" APPLICATION OF 50:50 TOPSOIL:SAND MIX FOR ALL LANDSCAPE AND AREAS TO BE SODDED.
- 6. THE LANDSCAPE CONTRACTOR SHALL CALCULATE AND SUBMIT AN ITEMIZED PRICE FOR THE 2" APPLICATION OF 50:50 MIX FOR ALL SOD AREAS AS A REFERENCE IN THE CASE THAT THERE WOULD BE A DISCREPANCY BETWEEN SITE AND LANDSCAPE CONTRACTORS AND NOTIFY THE SITE CONTRACTOR OR PROJECT SUPERINTENDENT AS TO THIS DISCREPANCY. IT WILL THEN BE DETERMINED WHICH PARTY WILL PROVIDE THIS 2" TOPSOIL:SAND APPLICATION AND SUBSEQUENT PAYMENT.OTHER PLANTING SOIL MIXES TO BE ADDED, I.E. FOR TREES, PALMS, SPECIMEN PLANTS, SHRUBS AND GROUNDCOVERS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR AND BE INCLUSIVE WITH THE LANDSCAPE BID.
- 7. ALL EXISTING TREE + PALM INFORMATION THAT HAS BEEN PROVIDED ON THIS FLAN FOLLOWS THE MIAMI DADE COUNTY E.R.M. TREE PERMITTING GUIDELINES. ANY TREES OF PALMS CONSIDERED INVASIVE OR THAT FALLS UNDER THE TREE PERMIT EXEMPTION / PROHIBITED SPECIES LIST 24-94 (4) MAY NOT BE SHOWN FOR CLARITY PURPOSES. ANY DISCREPANCIES IF NOTED UPON FURTHER FIELD INSPECTION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE LANDSCAPE ARCHITECT.
- 8. IRRIGATION SHALL PROVIDE FOR A 100% COVERAGE WITH 50% OVERLAP MINIMUM AND BE PROVIDED BY A FULLY AUTOMATIC IRRIGATION SYSTEM W/ RAIN MOISTURE SENSOR ATTACHED TO CONTROLLER. ALL FLORIDA BUILDING CODE APPENDIX "F" IRRIGATION REQUIREMENTS SHALL BE STRICTLY ADHERED TO FOR INSTALLATION AND PREVAILING WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS SHALL BE IN COMPLIANCE FOR POST-INSTALLATION WATERING SCHEDULES.CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR AND LEAVE PROVISIONS FOR ALL SLEEVING AND PIPE ROUTING. ALL UNDERGROUND UTILITIES TO BE LOCATED BY DIALING 811 AS REQUIRED BY LAW.

- 9. ALL PLANTING BEDS SHALL BE MULCHED TO A DEPTH OF 2" WITH A SMALL GRAY GRANITE AGGREGATE or APPROVED ORGANIC MULCH FREE FROM WEEDS AND PESTS. NO 'CYPRESS MULCH' OR 'RED DYED MULCH' TO BE ACCEPTED. KEEP MULCH 6" AWAY FROM TREE OR PALM TRUNKS AS PER INDUSTRY RECOMMENDATIONS.
- 10. SOD SHALL BE SEASHORE PASPALUM or 'EMPIRE TURF' ZOYSIA GRASS IN ALL LAWN AREAS AS SHOWN ON THE PLANS. SOD SHALL BE STRONGLY ROOTED, FREE FROM WEED, FUNGUS, INSECTS AND DISEASE. CONTRACTOR SHALL SOD ALL AREAS AS INDICATED ON THE PLANS OR AS DIRECTED. PAYMENT SHALL BE DETERMINED BY THE TOTAL MEASURED SODDED AREAS X THE UNIT PRICE SUBMITTED AND FIELD VERIFIED. SOD SHALL CARRY A 5-MONTH WARRANTY.
- 11. ALL TREES, PALMS, SHRUBS AND GROUNDCOVERS, AND SOD / LAWN SHALL CARRY A ONE-YEAR WARRANTY FROM THE DATE OF FINAL ACCEPTANCE.
- 12. ALL TREES AND PALMS SHALL BE STAKED PER ACCEPTED STANDARDS BY THE FLORIDA NURSERYMEN & GROWERS LANDSCAPE ASSOCIATION (FNGLA) AND ANSI A-300 (PART 6)-2012 TREE, SHRUB, AND OTHER WOODY PLANT MANAGEMENT STANDARD PRACTICES (PLANTING AND TRANSPLANTING). CONTRACTOR SHALL ENSURE THAT THE PLANS, DETAILS, SPECIFICATIONS AND NOTES HAVE BEEN ADHERED TO AND THAT THE LANDSCAPE AND IRRIGATION INSTALLATION IS COMPLIANT TO ALL ITEMS AS DIRECTED ON THE PLANS PRIOR TO SCHEDULING OF THE FINAL INSPECTION.

CONTRACTOR SHALL REMOVE ALL STAKES, POLES, WELLINGTON TAPE AND OR BRACING MATERIALS FROM ALL PALMS, TREES AND SHRUBS WITHIN 1 YEAR OF INSTALLATION.

- 13. THE PLANT LIST IS INTENDED ONLY AS AN AID TO BIDDING. ANY DISCREPANCIES FOUND BETWEEN THE QUANTITIES ON THE PLAN AND PLANT LIST, THE QUANTITIES ON THE PLAN SHALL BE HELD VALID.
- 14. IF NECESSARY, CONTRACTOR SHALL PROVIDE A WATER TRUCK DURING PLANTING TO ENSURE PROPER WATERING-IN DURING INSTALLATION AND CONTRACTOR WILL BE RESPONSIBLE FOR CONTINUAL WATERING UNTIL FINAL ACCEPTANCE BY THE OWNER.

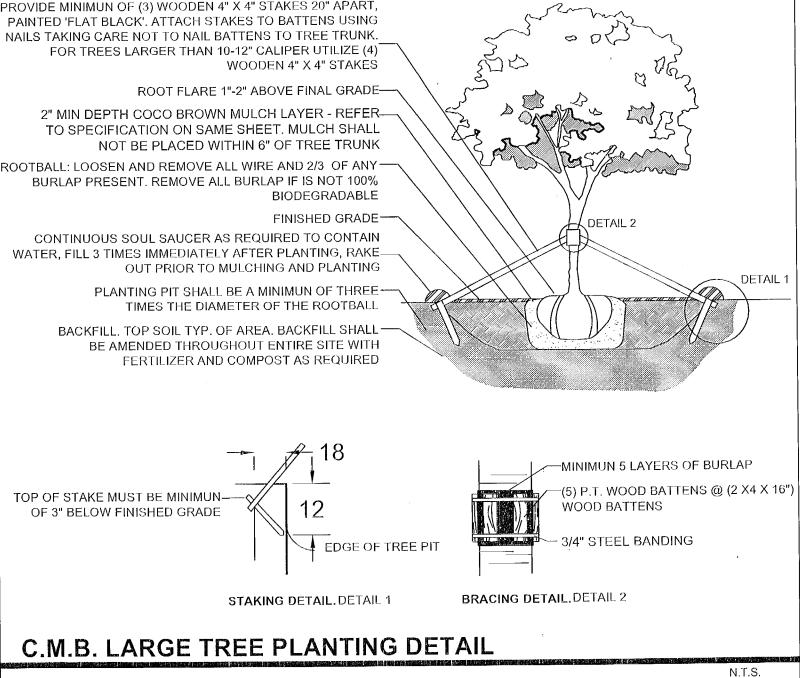
A MINIMUM OF 6 MONTHS OF SUPPLEMENTAL HAND OR AUTOMATIC IRRIGATION SYSTEM WATERING SHALL BE REQUIRED TO AID IN NEW TREE OR PALM ESTABLISHMENT.

- 15. FERTILIZATION: ONE COMPLETE APPLICATION OF GRANULAR FERTILIZER SHALL BE APPLIED PRIOR TO FINAL ACCEPTANCE AND APPROVAL BY THE LANDSCAPE ARCHITECT. FERTILIZER SHALL BE OSMACOTE OR APPROVAL EQUAL.
- 16. SHOULD ANY TREES OR PALMS BE DAMAGED THEY SHALL BE EVALUATED BY THE CITY URBAN FORESTER TO DETERMINE CORRECTIVE ACTIONS THAT MAY INCLUDE REMOVAL, CORRECTIVE PRUNING AND OR REPLACEMENT. ANY CORRECTIVE ACTION REQUIRED SHALL BE PERFORMED IN ACCORDANCE WITH A MIAMI DADE COUNTY CODE, ANSI-A 300 PRUNING STANDARDS AND OR AN ISSUED ERM TREE PERMIT OR ENVIRONMENTAL PERMIT. ANY CORRECTIVE PRUNIING REQUIRED SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST OR ASCA CONSULTING ARBORIST AND THE CITY URBAN FORESTER SHALL BE CONSULTED.
- 17. ALL TREES + PALMS TO REMAIN OR BE RELOCATED ON SITE IN THE VICINITY OF CONSTRUCTION ACTIVITIES, SHALL BE PROTECTED THROUGH THE USE OF TREE PROTECTION BARRICADES INSTALLED AT THE TREE OR PALM DRIP LINE. A TREE PROTECTION FENCE SHALL BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITY INCLUDING GRUBBING AND SHALL REMAIN IN PLACE UNTIL ON SITE CONSTRUCTION HAS BEEN COMPLETED.
- 18. CITY URBAN FORESTER AND/OR PLANNING DEPARTMENT STAFF TO APPROVE R.O.W. TREES BEFORE THEY ARE PLANTED.
- 20. MULCH SHALL NOT BE APPLIED WITHIN 6" OF ANY TREE OR PALM TRUNK THAT IS INSTALLED OR INCORPORATED INTO THE PROJECT. FOR R.O.W. TREES + PALMS, ALL MULCH SHALL BE AMERIGROW 'PREMIUM PINEBARK BROWN' SHREDDED MULCH OR A CITY APPROVED ALTERNATIVE.

## **IRRIGATION NOTES**

- IRRIGATION CONTRACTOR SHALL PROVIDE, FURNISH, AND INSTALL A FULLY AUTOMATIC IRRIGATION SYSTEM WHICH WILL COMPLY WITH ALL LOCAL CODE, STATE CODE, & WATER MANAGEMENT DISTRICT (SWFMD) REQUIREMENTS.
- 2. THE IRRIGATION CONTRACTOR SHALL SCHEDULE AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH THE OWNER AND THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO COMMENCEMENT OF INSTALLATION OF THE IRRIGATION SYSTEM.
- 3. CONTRACTOR SHALL INSTALL POP-UP TYPE HEADS. SPRAY TYPE SHALL BE ROTOR, IMPACT, SPRAY, OR BUBBLER AND SHALL BE INSTALLED SO AS NOT TO CAUSE ANY OVERSPRAY ONTO ANY PAVED SURFACES, I.E. ROADS, SIDEWALKS, ETC. ALL FIXTURES SHALL BE "TORO", "RAINBIRD" OR AN APPROVED EQUAL. ALL WORK SHALL BE DONE IN A PROFESSIONAL MANNER AS PER MANUFACTURER'S SPECIFICATIONS.
- 4. ALL MAIN SUPPLY LINE SHALL BE PVC SCHEDULE 40 PIPE. ALL PVC FITTINGS SHALL BE SCHEDULE 40. THE MAINLINE IS SHOWN SCHEMATICALLY. LOCATE MAIN LINES IN LANDSCAPE AREAS WHERE POSSIBLE AND SLEEVE UNDER PAVEMENT WHERE NECESSARY. MAINLINES SHALL BE IN THE SAME TRENCH WITH THE LATERAL LINES WHERE POSSIBLE.
- 5. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATION OF AND AVOID & PROTECT ALL UTILITY LINES, DUCTS, BURIED CABLES AND OTHER UTILITIES IN THE AREA. CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR, LIABILITY, AND COSTS INCURRED IN THE DAMAGE OR DESTRUCTION OF SAID UTILITIES. CALL SUNSHINE STATE ONE CALLS 811, 48 HOURS PRIOR TO COMMENCEMENT OF ANY WORK FOR PROPER UTILITY LOCATION AND CLEARANCES.
- 6. THE CONTRACTOR SHALL SECURE ALL WORK WITH THE PROJECT MANAGER, LANDSCAPE CONTRACTOR AND ALL OTHER CONTRACTORS TO INSURE PROPER INSTALLATION, SCHEDULING, AND PROCEDURE.
- 7. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT MANAGER TO PROVIDE ELECTRICAL SUPPLY TO THE CONTROLLER, PUMP, ETC. AS NEEDED.

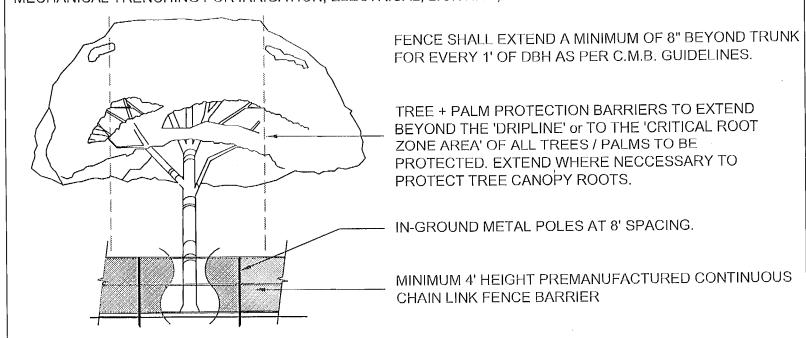
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE TO SECURE ALL PERMITS AS MAY BE DEEMED NECESSARY TO PERFORM THE WORK. ENTIRE SYSTEM SHALL BE INSTALLED IN COMPLIANCE WITH ALL LOCAL AND STATE CODES.
- 9. ALL SLEEVES UNDER PAVEMENT SHALL BE BURIED PER FLORIDA BUILDING CODE, APPENDIX "F". ALL LATERAL SLEEVES UNDER SIDEWALKS SHALL BE BURIED BELOW WALKWAYS AND SHALL BE SCHEDULE 40 PVC. ALL SLEEVING SHALL BE SCHEDULE 40 PVC PIPE AND SHALL BE 2 TIMES THE MAIN OR LATERAL PIPE SIZE.
- 10. THE CONTRACTOR SHALL CONNECT THE MASTER VALVE (WHEN APPLICABLE) AND ALL ELECTRIC VALVES TO THE CONTROLLER AND PROVIDE PROPER SYNCHRONIZATION.
- 11. ALL LOW VOLTAGE ELECTRIC VALVES SHALL BE #14 DIRECT BURIAL. ALL WIRES UNDER ROADS TO BE PLACED IN A SPERARATE 1" SLEEVE. CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO EXTRA WIRES FOR EMERGENCY POST INSTALLATION WIRING.
- 12. ALL LINE LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST TRENCHING AND LOCATION OF SPRAY HEADS IN THE FIELD FOR EXISTING CONDITIONS, WALKS, UTILITIES, STRUCTURES, AND PLANTINGS TO PROVIDE AND INSURE 100% COVERAGE AND 100% OVERLAP.
- 13. CONTRACTOR SHALL PROVIDE A ONE-YEAR GUARANTEE ON ALL PARTS AND A 90 DAY GUARANTEE ON LABOR FROM THE DATE OF FINAL ACCEPTANCE.
- 14. THE IRRIGATION CONTRACTOR SHALL RECORD ALL CHANGES MADE TO THE IRRIGATION SYSTEM DURING INSTALLATION, AND PROVIDE AN AS-BUILT DRAWING TO THE OWNER'S REPRESENTATIVE UPON COMPLETION AND ACCEPTANCE OF THE WORK.
- 15. THE IRRIGATION CONTRACTOR SHALL INSTRUCT THE OWNER OR THE OWNER'S REPRESENTATIVE IN THE COMPLETE OPERATION AND MAINTENANCE OF THE SYSTEM. THE CONTRACTOR SHALL FURNISH TWO COPIES OF AN IRRIGATION SYSTEM MANAGEMENT MANUAL PREPARED BY THE MANUFACTURER AND THE SYSTEM INSTALLER.



TREE / PALM PROTECTION FENCES SHALL BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITY

NO ACTIVITY OR DISTURBANCE SHOULD OCCUR WITHIN THE FENCED AREAS, INCLUDING VEHICLE USE, STORAGE OF MATERIALS, DUMPING OF LIQUIDS OR MATERIALS, GRADE CHANGES, GRUBBING, AND MECHANICAL TRENCHING FOR IRRIGATION, ELECTRICAL, LIGHTING, ETC.

INCLUDING GRUBBING FOR ALL TREES / PALMS THAT ARE 'TO REMAIN, BE PROTECTED, or BE RELOCATED'



PROTECTION DETAIL NOTE

CONTRACTOR TO INSTALL 'TREE / PALM PROTECTION FENCE BARRIERS' AROUND ALL EXISTING TREES OR PALMS AT THE START OF THE PROJECT. BARRIERS TO REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT AND SHOULD NOT BE REMOVED OR DROPPED FOR ANY REASON WITHOUT AUTHORIZATION FROM THE CITY OF MIAMI BEACH URBAN FORESTER + PLANNING + ZONING DEPARTMENT

## C.M.B. TREE / PALM PROTEC. DETAIL (CHAINLINK)

GROUNDCOVERS TO BE STAGGERED AS SHOWN-SPACING BETWEEN ROWS TO BE AT A 60 DEGREE ANGLE OF THE O.C. DISTANCE AS SHOWN

O.C. DIST.

MULCH - SEE SPECS. FOR DEPTH, TYPE, ETC.

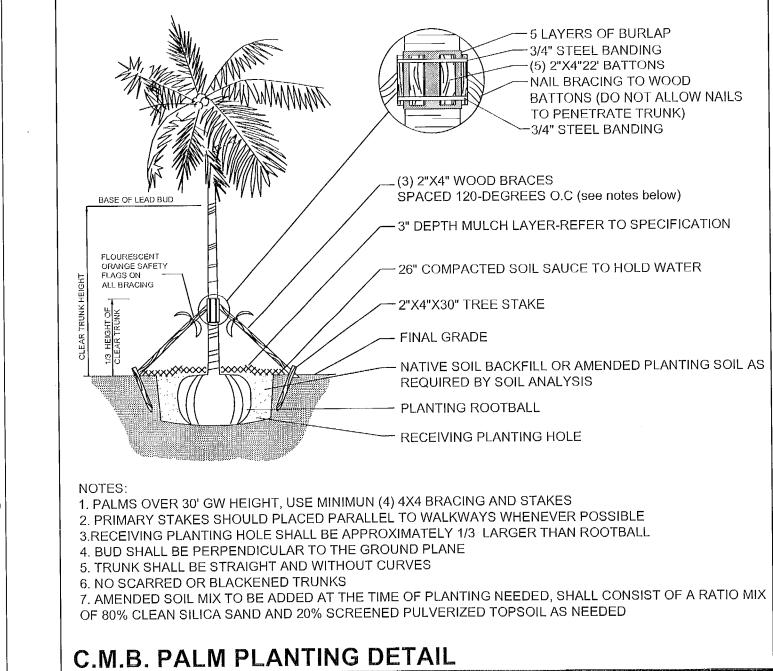
MULCH SHALL BE LEVEL WITH ALL EDGES OF PAVEMENT TYPICAL

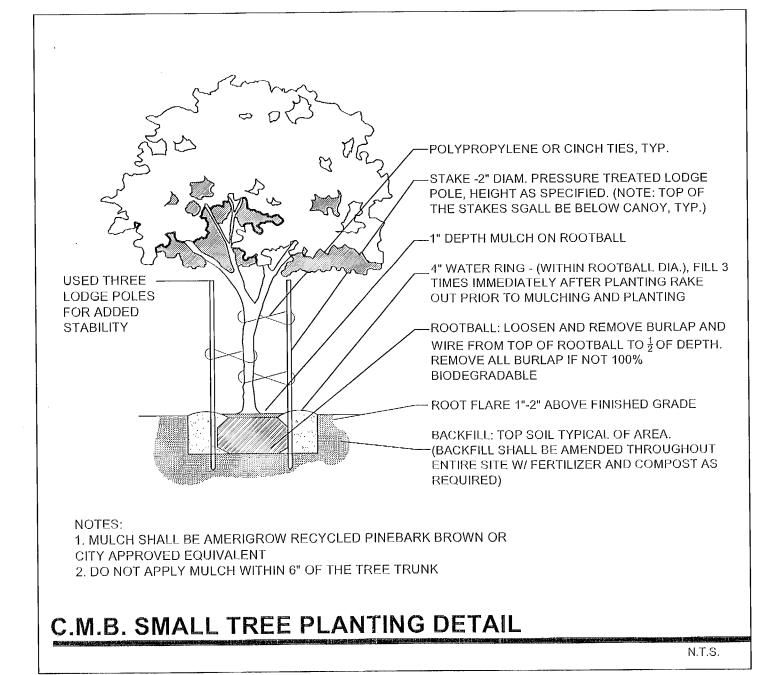
PLANTING SOIL MIX - SEE NOTES FOR TYPE, DEPTH, ETC.

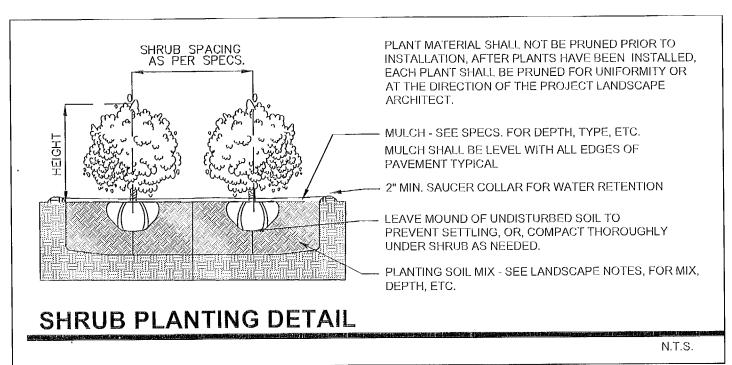
GROUNDCOVER PLANTING DETAIL

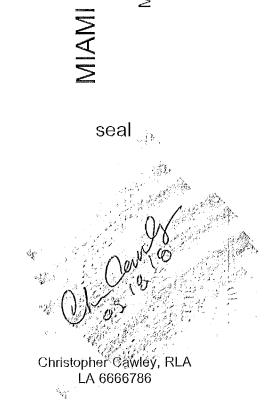


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UPDATE 05.16.18

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LANDSCAPE NOTES + DETAILS

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