

# MILLER GARDEN STAR ISLAND

4-6 Star Island Drive, Miami Beach, FL 33139

FINAL SUBMITTAL DRB 24-1014  
DATE: 04-19-2024

Prepared by:

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4,5,6 STAR ISLAND MIAMI BEACH, FL 33139

TREE DISPOSITION SCHEDULE  
Existing  
Per Survey Date 03/14/2024

Idem.	Symbol	Scientific Name	Common Name	D.B.H. (in)	O.A. Height (ft)	Canopy Diameter (ft)	Condition	Disposition	Mitigation Credits Required	Notes
LOT 4										
#401	RRC	<i>Roystonia regia</i>	Royal Palm	9	21 CT 33 OA	17	Good	Remove	(1) Tree	
#402	AHE	<i>Aracaria heterophylla</i>	Norfolk Island Pine	6	24	15	Good	Remove	0	Mitigation not required; prohibited/controlled plant species
#403	AHE	<i>Aracaria heterophylla</i>	Norfolk Island Pine	7	28	15	Good	Remove	0	Mitigation not required; prohibited/controlled plant species
#404	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	22	18 CT 27 OA	18	Good	Relocate	0	
#405	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	21	15 CT 26 OA	24	Good	Relocate	0	
#406	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	23	15 CT 24 OA	20	Good	Relocate	0	
#407										Tree does not exist
#408	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	26	25 CT 35 OA	22	Good	Relocate	0	
#409	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	28	25 CT 35 OA	22	Good	Relocate	0	
#410	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	28	26 CT 36 OA	22	Good	Relocate	0	
#411	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	28	24 CT 34 OA	22	Good	Relocate	0	
#412	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	26	25 CT 35 OA	22	Good	Relocate	0	
#413	BSI	<i>Bursera simaruba</i>	Gumbo Limbo	19	28	25	Good	Relocate	0	
#414	PRD	<i>Phoenix roabellii</i>	Senegal Date Palm	10	8 CT 17 OA	16	Good	Remove	(1) Tree	
#415	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	27	25 CT 30 OA	25	Good	Relocate	0	
#416	PLU	<i>Palmelia spp.</i>	Frangipani	12	14	10	Good	Relocate	0	
#417	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	8	20 CT 27 OA	11	Good	Relocate	0	
#418	BNO	<i>Bismarckia nobilis</i>	Bismarck Palm	12	25 CT 33 OA	18	Good	Relocate	0	
#419	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	7	5 CT 11 OA	8	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#420	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	10	20 CT 27 OA	12	Good	Remove	(1) Tree	
#421										Tree does not exist
#422	CRO	<i>Cusia rosea</i>	Pitch Apple	20	35	35	Good	Relocate	0	
#423	LLO	<i>Latania sp.</i>	Latan Palm	8	14 CT 21 OA	10	Good	Relocate	0	
#424	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	3	18 CT 14 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#425	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	4	25 CT 33 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#426	PRE	<i>Phoenix reclinata</i>	Senegal Date Palm Clump	14	12 CT 20 OA	16	Good	Remove	(1) Tree	
#427										Tree does not exist
#428	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm double	17	24 CT 30 OA	15	Good	Remove	(1) Tree	
#429										Tree does not exist
#430	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	8	8 CT 17 OA	15	Good	Remove	(1) Tree	
#431	LLO	<i>Latania sp.</i>	Latan Palm	7	12 CT 20 OA	14	Good	Relocate	0	
#432	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm triple	14	23 CT 28 OA	18	Good	Remove	(1) Tree	
#433	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	9	23 CT 28 OA	15	Good	Remove	(1) Tree	
#434	FBE	<i>Ficus benjamina</i>	Weeping Fig	35	40	45	Good	Remove	35	
#435	AHE	<i>Aracaria heterophylla</i>	Norfolk Island Pine	4	33	30	Good	Remove	0	Mitigation not required; prohibited/controlled plant species
#436	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	22	27 CT 34 OA	19	Good	Relocate	0	
#437	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	24	26 CT 35 OA	18	Good	Relocate	0	
#439	EGR	<i>Encopalrtos gratus</i>	Same	N/A	5	5	Good	Relocate	0	Shrub
#440	FBE	<i>Ficus benjamina</i>	Weeping Fig	N/A	15	N/A	Good	Remove	0	Mitigation not required; Hedge
#61009	QVI	<i>Quercus virginiana</i>	Live Oak	34	46	40	Good	Relocate	0	
#61010	PLL	<i>Pseudobombax ellipticum</i>	Shaving Brush Tree	22	35	43	Good	Relocate	0	
#61011	QVI	<i>Quercus virginiana</i>	Live Oak	24	28	48	Good	Relocate	0	
#61012	ESP	<i>Encopalrtos sp.</i>	Cycad	N/A			Good	Relocate	0	
#61013	ESP	<i>Encopalrtos sp.</i>	Cycad	N/A			Good	Relocate	0	
#61014	ESP	<i>Encopalrtos sp.</i>	Cycad	N/A			Good	Relocate	0	
#61016	QVI	<i>Quercus virginiana</i>	Live Oak	50	38	55	Good	Relocate	0	
#61017	QVI	<i>Quercus virginiana</i>	Live Oak	34	38	62	Good	Relocate	0	
#61018	CUV	<i>Coccoloba uvifera</i>	Seagrape	60	32	48	Good	Relocate	0	
#61032	BSI	<i>Bursera simaruba</i>	Gumbo Limbo	42	30	40	Good	Relocate	0	
#61033-61036	PSS	<i>Phoenix spp.</i>	Date Palm Clump	8 x 4	14	10	Good	Relocate	0	
#61037-61039	PSS	<i>Phoenix spp.</i>	Date Palm Clump	8 x 3	30	8	Good	Relocate	0	
#61040	PP1	<i>Pongamia pinnata</i>	Pongamia Tree	36	32	56	Good	Relocate	0	
#61041	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	3	18 CT 14 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#61042	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	3	18 CT 14 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#61043	PSS	<i>Phoenix spp.</i>	Date Palm	8	16	8	Good	Relocate	0	
#61044	SMA	<i>Swietenia mahagoni</i>	Mahogany	24	35	25	Good	Relocate	0	
#61045-61046	QVI	<i>Quercus virginiana</i>	Live Oak	8.5, 3	20	18	Good	Relocate	0	Multi-Trunk
#61047	ADI	<i>Adansonia digitata</i>	Baobab	40	20	6	Good	Relocate	0	
#61048	LLO	<i>Latania sp.</i>	Latan Palm	36	18	8	Good	Relocate	0	
#61049	CGU	<i>Cusia guttata</i>	Small Leaf Cusia	48	26	18	Good	Relocate	0	

Idem.	Symbol	Scientific Name	Common Name	D.B.H. (in)	O.A. Height (ft)	Canopy Diameter (ft)	Condition	Disposition	Mitigation Credits Required	Comments
LOT 5										
#501	LLO	<i>Latania sp.</i>	Latan Palm	8	10 CT 18 OA	12	Good	Relocate	0	
#502	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	7	15 CT 20 OA	10	Good	Remove	(1) Tree	
#503	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	24	25 CT 36 OA	22	Good	Relocate	0	
#504	RRE	<i>Roystonia regia</i>	Royal Palm	9	26 CT 30 OA	14	Good	Remove	(1) Tree	
#505	RRE	<i>Roystonia regia</i>	Royal Palm	9	28 CT 36 OA	17	Good	Remove	(1) Tree	
#506	CRO	<i>Cusia rosea</i>	Pitch Apple	17	35	25	Good	Relocate	0	
#507	RRE	<i>Roystonia regia</i>	Royal Palm	9	28 CT 36 OA	17	Good	Remove	(1) Tree	
#508	QVI	<i>Quercus virginiana</i>	Live Oak	13	24	30	Good	Relocate	0	
#509	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	7	17 CT 26 OA	12	Good	Remove	(1) Tree	
#510	VAR	<i>Veitchia arcuata</i>	Montgomery Palm	3	18 CT 27 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#511	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm double	6	8 CT 16 OA	10	Good	Remove	(1) Tree	
#512	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm double	14	23 CT 28 OA	14	Good	Remove	(1) Tree	
#513	VAR	<i>Veitchia arcuata</i>	Montgomery Palm	3	11 CT 18 OA	8	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#514	LLO	<i>Latania sp.</i>	Latan Palm	8	16 CT 24 OA	10	Good	Relocate	0	
#515	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	12	23 CT 32 OA	14	Good	Relocate	0	
#516	PRE	<i>Phoenix reclinata</i>	Senegal Date Palm	90	30 CT 38 OA	30	Good	Relocate	0	
#517	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm double	12	18 CT 24 OA	14	Good	Remove	(1) Tree	
#518	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm double	14	19 CT 26 OA	14	Good	Remove	(1) Tree	
#519	LCH	<i>Livistona chinensis</i>	Chinese Fan Palm	8	19 CT 26 OA	12	Good	Remove	(1) Tree	
#520	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	21	30 CT 40 OA	24	Good	Relocate	0	
#521	CRO	<i>Cusia rosea</i>	Pitch Apple	6	26	20	Good	Relocate	0	
#522	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	3	18 CT 26 OA	11	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#523	PEL	<i>Psychosperma elegans</i>	Solitaire Palm	3	24 CT 32 OA	13	Good	Remove	0	Mitigation not required; specs do not meet minimum requirements
#524	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	22	24 CT 35 OA	26	Good	Relocate	0	
#525	FBE	<i>Ficus benjamina</i>	Weeping Fig	25	17	30	Good	Remove	25	
#526	FBE	<i>Ficus benjamina</i>	Weeping Fig	27	17	30	Good	Remove	27	
#527	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	26	22 CT 30 OA	26	Good	Relocate	0	
#528	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	22	22 CT 30 OA	24	Good	Relocate	0	
#529	PCA	<i>Phoenix canariensis</i>	Canary Island Date Palm	27	23 CT 34 OA	18	Good	Relocate	0	
#530	FBE	<i>Ficus benjamina</i>	Banyan	200	50	72	Good	Relocate	0	
#531	PRU	<i>Phoenix rupicola</i>	Cliff Date Palm	10	10 CT 18 OA	14	Good	Relocate	0	
#532	AHE	<i>Aracaria heterophylla</i>	Norfolk Island Pine	9	33	12	Good	Remove	0	Mitigation not required; prohibited/controlled plant species
#533										Tree does not exist
#534										Tree does not exist
#535										Tree does not exist
#536	RRE	<i>Roystonia regia</i>	Royal Palm	20	52 CT 62 OA	18	Good	Relocate	0	
#537	RRE	<i>Roystonia regia</i>	Royal Palm	18	28 CT 38 OA	20	Good	Relocate	0	
#538	RRE	<i>Roystonia regia</i>	Royal Palm	18	33 CT 40 OA	24	Good	Relocate	0	
#539										Tree does not exist
#540										Tree does not exist
#541										Tree does not exist
#542	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	18	40 CT 53 OA	26	Good	Relocate	0	
#543	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	14	37 CT 43 OA	18	Good	Relocate	0	
#544	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	20	33 CT 43 OA	25	Good	Relocate	0	
#545	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	16	38 CT 47 OA	24	Good	Relocate	0	
#546	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	18	33 CT 43 OA	18	Good	Relocate	0	
#547	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	13	37 CT 46 OA	25	Good	Relocate	0	
#548	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	14	28 CT 33 OA	25	Good	Relocate	0	

#549	PDA	<i>Phoenix dactylopera 'Medjool'</i>	Medjool Date Palm	14	28 CT 35 OA	25	Good	Relocate	0	
#61000	KAF	<i>Kigelia africana</i>	Sausage Tree	36	43	38	Good	Relocate	0	
#61019-61026	PSP	<i>Phoenix spp.</i>	Date Palm clump	8 x 10	22 CT 30 OA	20	Good	Relocate	0	
#61029	PSP	<i>Phoenix spp.</i>	Date Palm clump	10 x 4	24 CT 30 OA	22	Good	Relocate	0	
#61031	CSP	<i>Cycas sp.</i>	Cycad	8	5 OA	4	Good	Relocate	0	
#61050	RRE	<i>Roystonia regia</i>	Royal Palm	9	26 CT 30 OA	14	Good	Relocate	0	
#61051	QVI	<i>Quercus virginiana</i>	Live Oak	24	40	40	Good	Relocate	0	
#61052	QVI	<i>Quercus virginiana</i>	Live Oak	35	38	38	Good	Relocate	0	

Idem.	Symbol	Scientific Name	Common Name	D.B.H. (in)	O.A. Height (ft)	Canopy Diameter (ft)	Condition
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#61049-CGU-Clusia guttifera



#61011-QVI-Quercus virginiana



#61047-ADI-Adansonia digitata



#61018-CUV-Coccotheca uvifera



#61044-SMA-Swietenia mahagoni



#413-BSI-Bursera simaruba



#422-CRO-Clusia rosea



#530-FBE-Ficus benghalensis



#610-CDI-Coccotheca diversifolia



#612-CRO-Clusia rosea



#628-CRO-Clusia rosea



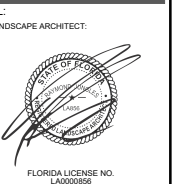
#630-SMA-Swietenia mahagoni



#634-CSP-Chorisia speciosa

REVISIONS:

No.	Date	Description



SHEET TITLE:  
**EXISTING SPECIMEN  
 TREE IMAGERY**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

**TREE / PALM PROTECTION NOTES**

**1. 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.

**2. CONTRACTOR REQUIREMENTS**

- 2.1. 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.
- 2.2. 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.
- 2.3. 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 LANDSCAPE ARCHITECT.
- 2.4. CONTRACTOR MUST DESIGNATE A COMPETENT, ENGLISH-SPEAKING SUPERVISOR OR FOREMAN TO OVERSEE AND DIRECT ALL RELOCATION AND MAINTENANCE ACTIVITIES AS OUTLINED IN THESE SPECIFICATIONS.
- 2.5. 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 BID.
- 2.6. 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.
- 2.7. CONTRACTOR MUST VERIFY WITH THE GENERAL CONTRACTOR THE ABSENCE OF ANY UNDERGROUND CONSTRUCTION OR OBSTRUCTIONS (E.G., BULKHEADS, POT/PTO SYSTEMS, ETC.) IN THE CURRENT AND FUTURE LOCATIONS OF ALL TREES AND PALMS TO BE RELOCATED.
- 2.8. 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.
- 2.9. CONTRACTOR MUST FLAG ALL PROPOSED TRANSPLANT LOCATIONS FOR THE LANDSCAPE ARCHITECT'S APPROVAL A MINIMUM OF 15 DAYS PRIOR TO RELOCATION.
- 2.10. CONTRACTOR MUST ENSURE THAT ALL TREES AND PALMS TO BE RELOCATED ARE INSTALLED AT THE CORRECT GRADE OR ELEVATION, ACCORDING TO THE GRADING PLAN.
- 2.11. CONTRACTOR MUST ENSURE THAT ALL ROOT FLARES ARE EXPOSED AFTER RELOCATION.
- 2.12. 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.
- 2.13. 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.
- 2.14. 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.
- 2.15. 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.
- 2.16. CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS FOR THE RELOCATION AND TRANSPORTATION OF THE TREES AND PALMS TO BE RELOCATED.
- 2.17. 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.
- 2.18. CONTRACTOR MUST GUARANTEE ALL RELOCATED TREES AND PALMS FOR ONE YEAR FROM THE DATE OF RELOCATION TO THE FINAL LOCATION. GUARANTEE MUST INCLUDE TREE HEALTH AND SETTLING.
- 2.19. 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.

**3. ROOT PRUNING SPECIFICATIONS**

**3.1. GENERAL**

- 3.1.1. 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.
- 3.1.2. 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.
- 3.1.3. 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.
- 3.1.4. 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.
- 3.1.5. MYCORRHIZA (ROOTS® TRANSPLANT OR EQUIVALENT) MUST BE INCORPORATED INTO THE BACKFILL SOIL PRIOR TO BACKFILLING AS PER MANUFACTURER'S RECOMMENDATIONS.
- 3.1.6. 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.
- 3.1.7. 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.

**3.2. TREES**

- 3.2.1. 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.
- 3.2.2. 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)	MIN. ROOTBALL DIA. (feet)	CALIPER (inches)	MIN. ROOTBALL DIA. (feet)
1-4	3	12-14	6
4-5	4	15-17	10
6-7	5	18-24	12-15
8-9	6	25-30	15-25
10-11	7	30+	as needed

- 3.2.3. WHENEVER POSSIBLE, ROOTBALLS MUST BE CIRCULAR IN SHAPE WITH AN EQUAL DISTANCE FROM THE TRUNK TO THE EDGE OF THE ROOTBALL ALL AROUND.
- 3.2.4. 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.

- 3.2.5. 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.
- 3.2.6. 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 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.
- 3.2.7. CERTAIN HARDWOOD TREES AND GYMNOSPERMS REQUIRE LONGER ROOT PRUNING TIMES. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
  - AVOCADO (PERSEA AMERICANA)
  - BLACK OLIVE (BUCCIDA BUCERAS)
  - BRIDAL VEIL (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 (COCOLOBA DIVERSIFOLIA)
  - SWEET ACACIA (ACACIA FARNESIANA)
  - VERAWOOD (BULNESIA ARBorea)
  - WILD TAMARIND (LYSILOMA LATICUSCUM & 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).

**3.3. PALMS**  
THE FOLLOWING TABLE LISTS MINIMUM ROOTBALL DIAMETERS FOR VARIOUS SPECIES OF PALMS BASED ON REAL-WORLD EXPERIENCE OF RELOCATION SPECIALISTS IN SOUTH FLORIDA:

PALM SPECIES	ROOTBALL SPECIFICATIONS
SABAL / CABBAGE PALM	36" diameter
QUEEN & FOXTAIL PALMS	12" from trunk in all directions
ROYAL & COCONUT PALMS	18-24" from trunk in all directions
CANARY DATE PALM	24" from trunk in all directions
SLOW-GROWING PALMS (see sec. 3.3.4)	24" from trunk in all directions

- 3.3.2. 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.
- 3.3.3. 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 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.
- 3.3.4. CERTAIN PALMS, IN PARTICULAR THOSE THAT ARE SLOW GROWING, REQUIRE LONGER ROOT PRUNING TIME. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
  - ALL SPECIES OF ARCHONTOPHOENIX
  - ALL SPECIES OF CORYPHA
  - AMERICAN OIL PALMS (ALL SPECIES OF ATTALEA)
  - BISMARCK PALM (BISMARCKIA NOBILIS)
  - CUBAN & CARIBBEAN COPERNICIA
  - CUBAN BELLY PALM (GASTROCOCCUS CRISPA)
  - GINGERBREADDODIUM PALMS (ALL SPECIES OF HYPHAENE)
  - PALMYRA PALMS (ALL SPECIES OF BORAUSSUS)
  - SATAKE PALM (SATAKENTIA LIUKUENSIS)
  - SAW PALMETTO (SERENOA REPENS)
  - SILVER PALM (COCOCHORINAX ARGENTATA)
  - ZOMBIE PALM (ZOMBIA ANTILARUM)

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. TREES**

- 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. PALMS**

- 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 NUICIFERA). 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. GENERAL**

- 5.1.1. LANDSCAPE CONTRACTOR TO FLAG ALL PROPOSED PLANT LOCATIONS FOR LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION. NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF 15 DAYS PRIOR TO REVIEW.
- 5.1.2. 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.
- 5.1.3. 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.
- 5.1.4. 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) DURING TRANSPORT.
- 5.1.5. 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 (NO MORE THAN 2" HIGHER) FINAL GRADE.
- 5.1.6. 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 THE BALANCING STRAP.
- 5.1.7. 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 INSTALLATION LOCATION OR TRANSPORT TRAILER.
- 5.1.8. 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.
- 5.1.9. 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 BACKFILLING.
- 5.1.10. MYCORRHIZA (ROOTS® TRANSPLANT OR EQUIVALENT) MUST BE INCORPORATED INTO THE BACKFILL SOIL PRIOR TO BACKFILLING.
- 5.1.11. 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 SPECIFICATIONS).
- 5.1.12. 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 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 BRACING. BRACING MUST REMAIN IN PLACE FOR A MINIMUM OF ONE YEAR.
- 5.1.13. 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 SUPPLEMENTS THAT ARE ADDED DOWN INTO THE ROOTBALL DURING ROOT REGENERATION.
- 5.1.14. ONCE THE TREE RING IS CONSTRUCTED, A HIGH-PHOSPHORUS ROOT STIMULANT MUST BE LIBERALLY APPLIED TO THE SURFACE OF THE ROOTBALL AND THOROUGHLY WATERED IN.
- 5.1.15. 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 ANY SIGNS OF STRESS BECOME APPARENT.
- 5.1.16. 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. MULCH MUST NOT BE APPLIED OR ALLOWED TO ACCUMULATE DIRECTLY AGAINST THE TRUNK.
- 5.1.17. 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.
- 5.1.18. RESTORE THE SURFACE WITH MATERIAL TO MATCH ADJACENT AREAS. MATERIAL TO BE APPROVED BY LANDSCAPE ARCHITECT. CONTRACTOR TO PROVIDE A MINIMUM OF ONE YEAR WARRANTY ON SETTLING AND PLANT MATERIAL FROM TIME OF SUBSTANTIAL COMPLETION.
- 5.2. SPECIAL CONDITIONS

- 5.2.1. MULTI-TRUNK TREES AND PALMS MUST BE RELOCATED AS ONE UNIT WITH A SINGLE ROOTBALL.
- 5.2.2. PLANTING PITS FOR EDIBLE DATE PALMS (PHOENIX DACTYLIFERA) MUST BE BACKFILLED WITH PURE DOT SILICA SAND.

**6. MAINTENANCE SPECIFICATIONS**

**6.1. GENERAL**

- 6.1.1. ALL RELOCATED TREES AND PALMS MUST BE MAINTAINED FOR ONE YEAR FROM THE DATE OF RELOCATION TO THEIR FINAL LOCATIONS.
- 6.1.2. CONTRACTOR MUST MAINTAIN ALL RELOCATED TREES AND PALMS FOR ONE FULL YEAR FROM THE DATE OF RELOCATION TO THE FINAL LOCATION.
- 6.1.3. 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 THIRD DAY FOR THE NEXT 6-8 WEEKS.
- 6.1.4. 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 LANDSCAPE ARCHITECT AND/OR CLIENT.
- 6.1.5. 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 INITIAL PREVENTATIVE MAINTENANCE.
- 6.1.6. EVERY THREE MONTHS THEREAFTER, 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 BROAD-SPECTRUM SYSTEMIC FUNGICIDE, FOLLOWING LABEL INSTRUCTIONS, AS CONTINUING PREVENTATIVE MAINTENANCE.
- 6.1.7. 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.
- 6.2. SHADE TREES
- 6.2.1. IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION AND EVERY THREE MONTHS THEREAFTER, A HIGH-QUALITY, SLOW-RELEASE 15-2-15 GRANULAR FERTILIZER MUST BE APPLIED, AT THE RECOMMENDED LABEL RATE, SPREAD EVENLY ACROSS THE SURFACE OF THE ROOTBALL.
- 6.2.2. FOLIAR FEED FOUR TIMES PER YEAR.
- 6.3. FLOWERING TREES
- 6.3.1. 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 RATE, SPREAD EVENLY ACROSS THE SURFACE OF THE ROOTBALL.
- 6.3.2. FOLIAR FEED FOUR TIMES PER YEAR.

**6.4. PALMS**

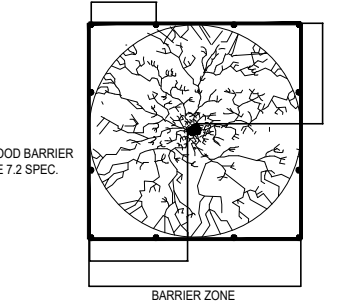
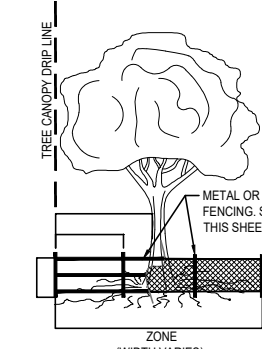
- 6.4.1. STRING MUST BE REMOVED FROM THE TIED UP LEAVES IMMEDIATELY AFTER RELOCATION TO THE FINAL LOCATION IF THE PALM WAS ROOT PRUNED OR WITHIN 30-45 DAYS AFTER RELOCATION ON THE OCCASION THE LANDSCAPE ARCHITECT APPROVED RELOCATION WITHOUT ROOT PRUNING DUE TO TIME CONSTRAINTS.
- 6.4.2. IMMEDIATELY AFTER 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 RECOMMENDED LABEL RATE, SPREAD EVENLY ACROSS THE SURFACE OF THE ROOTBALL.
- 6.4.3. FOLIAR FEED SIX TIMES PER YEAR.

**7. TREE PROTECTION SPECIFICATIONS**

- 7.1. TREE PROTECTION FENCES SHALL BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITY INCLUDING GRUBBING FOR ALL TREES / PALMS TO REMAIN OR BE RELOCATED.
- 7.2. FENCES SHOULD BE OF STURDY CONSTRUCTION. STURDY TEMPORARY BARRIERS SHALL BE INSTALLED AROUND ALL TREE PROTECTION ZONES. BARRIERS SHALL BE A MINIMUM OF FOUR FEET HIGH, AND SHALL BE CONSTRUCTED OF CONTINUOUS CHAIN LINK FENCE WITH METAL POSTS AT EIGHT-FOOT SPACING, OR OF TWO-BY-FOUR INCH POSTS WITH THREE EQUALLY SPACED TWO-BY-FOUR INCH RAILS. POSTS MAY BE SLOTTED TO AVOID ROOTS.
- 7.3. FENCES MUST BE MAINTAINED INTACT UNTIL THE PROJECT IS COMPLETED. THEY SHOULD NOT BE REMOVED OR DROPPED FOR ANY REASON WITHOUT AUTHORIZATION FROM THE CITY'S URBAN FORESTER.
- 7.4. NO ACTIVITY OR DISTURBANCE SHOULD OCCUR WITHIN THE FENCED AREAS, INCLUDING VEHICLE USE, STORAGE OF MATERIALS, DUMPING OF LIQUIDS OR MATERIALS, GRADE CHANGES, GRUBBING, MECHANICAL TRENCHING FOR IRRIGATION, ELECTRICAL LIGHTING, ETC.

**8. WARRANTY**

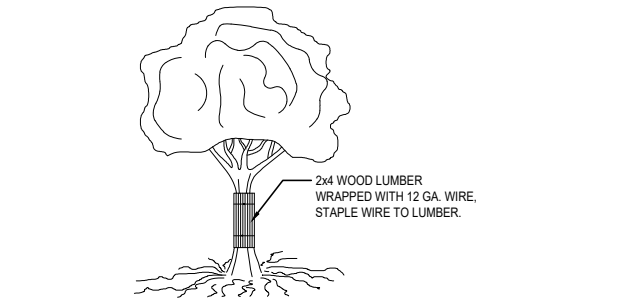
- 8.1. ALL RELOCATED TREES AND PALMS MUST BE GUARANTEED FOR ONE YEAR FROM THE DATE OF RELOCATION TO THEIR FINAL LOCATIONS.
- 8.2. IF A TREE OR PALM DIES WITHIN THE 1-YEAR WARRANTY PERIOD, IT MUST BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.
- 8.3. IF A TREE OR PALM PERFORMS POORLY WITHIN THE 1-YEAR WARRANTY PERIOD, IT MUST BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THE DECISION TO REPLACE BASED ON POOR HEALTH IS AT THE DISCRETION OF THE LANDSCAPE ARCHITECT.
- 8.4. IF A TREE OR PALM SETTLES TO AN UNHEALTHY DEPTH WITHIN THE 1-YEAR WARRANTY PERIOD, AS DEEMED BY THE LANDSCAPE ARCHITECT, IT MUST BE RAISED TO THE CORRECT GRADE AT CONTRACTOR'S EXPENSE.



**ELEVATION**

**PLAN**

**1 TREE BARRICADE DETAIL**  
SCALE: N/A



**2 TREE TRUNK PROTECTION DETAIL**  
SCALE: N/A

**jungles**  
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www.raymondjungles.com  
PROJECT NO.: 22065

Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

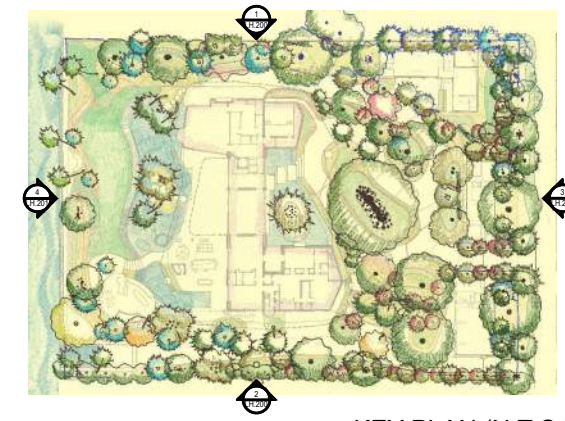
SEAL:  
LANDSCAPE ARCHITECT:

FLORIDA LICENSE NO. LA00000114  
Not valid for construction unless signed in this box.

SHEET TITLE:  
**TREE DISPOSITION NOTES & DETAILS**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024  
SHEET NUMBER:  
**LD.300**





KEY PLAN (N.T.S.)

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1 **NORTH ELEVATION**  
Scale: 1" = 30'-0"



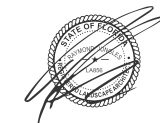
2 **SOUTH ELEVATION**  
Scale: 1" = 30'-0"

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**MILLER GARDEN**  
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REVISIONS:

No.	Date	Description

LANDSCAPE ARCHITECT:



FLORIDA LICENSE NO. LA000059  
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SHEET TITLE:  
**ELEVATIONS**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024

SHEET NUMBER:  
**LH.200**

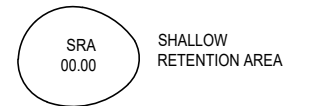


**LEGEND**

PROPERTY LINE

SETBACK

PROPOSED



+00.00 NGVD PROPOSED SPOT ELEVATION

TS TOP OF STEP

BS BOTTOM OF STEP

TW TOP OF WALL

BW BOTTOM OF WALL

WL WATER LEVEL

EXISTING CONTOUR

PROPOSED CONTOUR

PROPOSED



**GENERAL NOTES**

1. ALL SHALLOW RETENTION AREAS (SRA) SHALL BE GRADED GRADUALLY TO THE LOW POINT SPECIFIED ON THE PLAN. THESE AREAS WILL CATCH ON SITE WATER FOR PLANT MATERIAL AS WELL AS CREATE THE FIRST BARRIER FOR INFILTRATION BEFORE ENTERING THE STORM WATER SYSTEM.
2. REPORT ANY DISCREPANCIES FROM SURVEY OR OTHERWISE IMMEDIATELY TO THE LANDSCAPE ARCHITECT.
3. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
4. ALL SHRUBS AND GROUND COVER AREAS ARE TO BE 2" BELOW FINISHED LEVEL OF ALL ADJACENT HARDSCAPE (TYPICAL).
5. ALL TURF AREAS TO BE FLUSH WITH ADJACENT HARDSCAPE AREAS AND ENSURE NO TRIPPING HAZARDS.
6. ALL STEP TREADS TO SLOPE AWAY FROM STEP FACE AT A MINIMUM OF 1% UNLESS NOTED OTHERWISE.
7. CONTRACTOR TO TEST PERCOLATION IN ALL SRA'S AND NOTIFY LANDSCAPE ARCHITECT OF ANY ISSUES.
8. CONTRACTOR TO MAINTAIN EROSION CONTROL THROUGHOUT THE CONSTRUCTION PROCESS. LANDSCAPE ARCHITECT TO APPROVE SITE CONDITIONS PRIOR TO REMOVAL OF THESE METHODS.
9. ALL DRAIN INLETS, PIPES, MANHOLES, AND SOAKAWAY LOCATIONS TO BE COORDINATED WITH CIVIL ENGINEER. PLAN IS INDICATIVE OF PREFERRED LOCATIONS.
10. NO GRADING SHALL OCCUR BENEATH THE DRIP LINE OF ANY EXISTING TREE TO REMAIN.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SPOT ELEVATIONS IN FIELD. ALL QUANTITIES FOR THE MATERIALS NOTED ON GRADING PLANS SHALL BE VERIFIED BY THE CONTRACTOR BY DETAILED TAKEOFFS TO ENSURE THAT THE QUANTITIES GIVEN ARE SUFFICIENT TO FULFILL THE INTENT OF THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL FIELD VERIFY ALL AS-BUILT DIMENSIONS ON-SITE PRIOR TO BID.
12. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES ON-SITE BEFORE CONSTRUCTION BEGINS.

Final Submittal DRB 24-1014

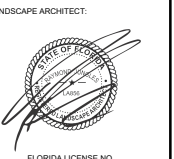
**MILLER GARDEN  
 STAR ISLAND**

4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:



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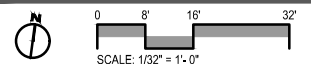
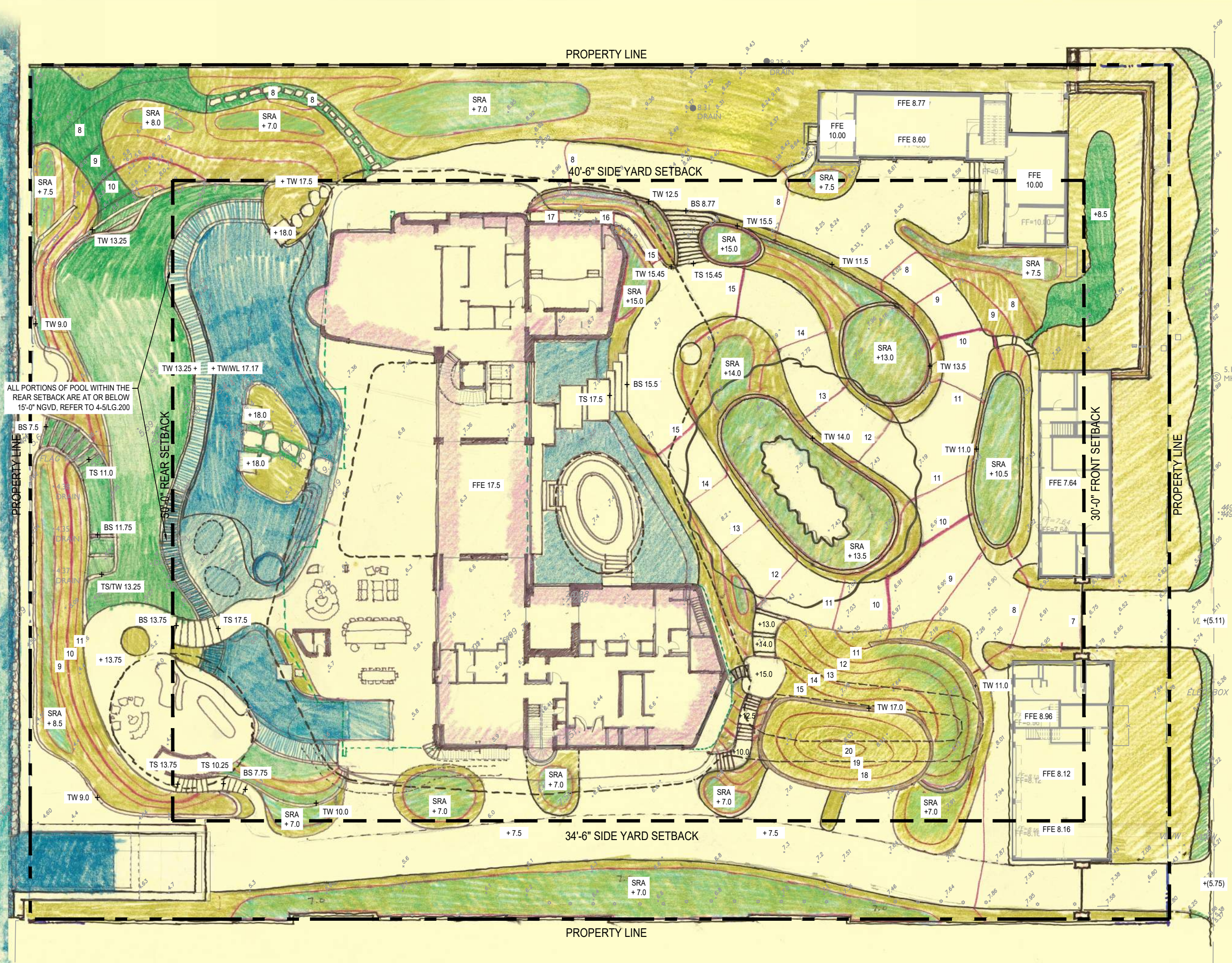
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**GRADING PLAN**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:

**LG.100**













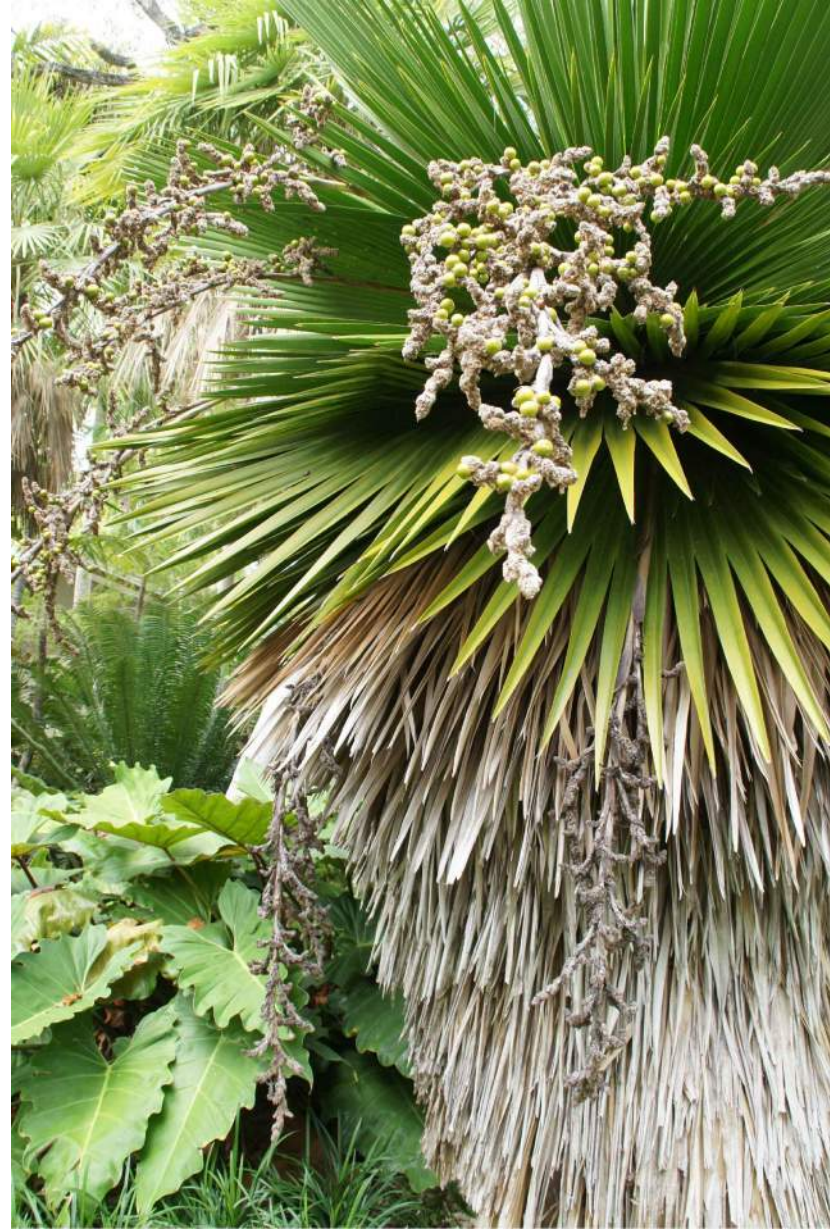












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**MILLER GARDEN**  
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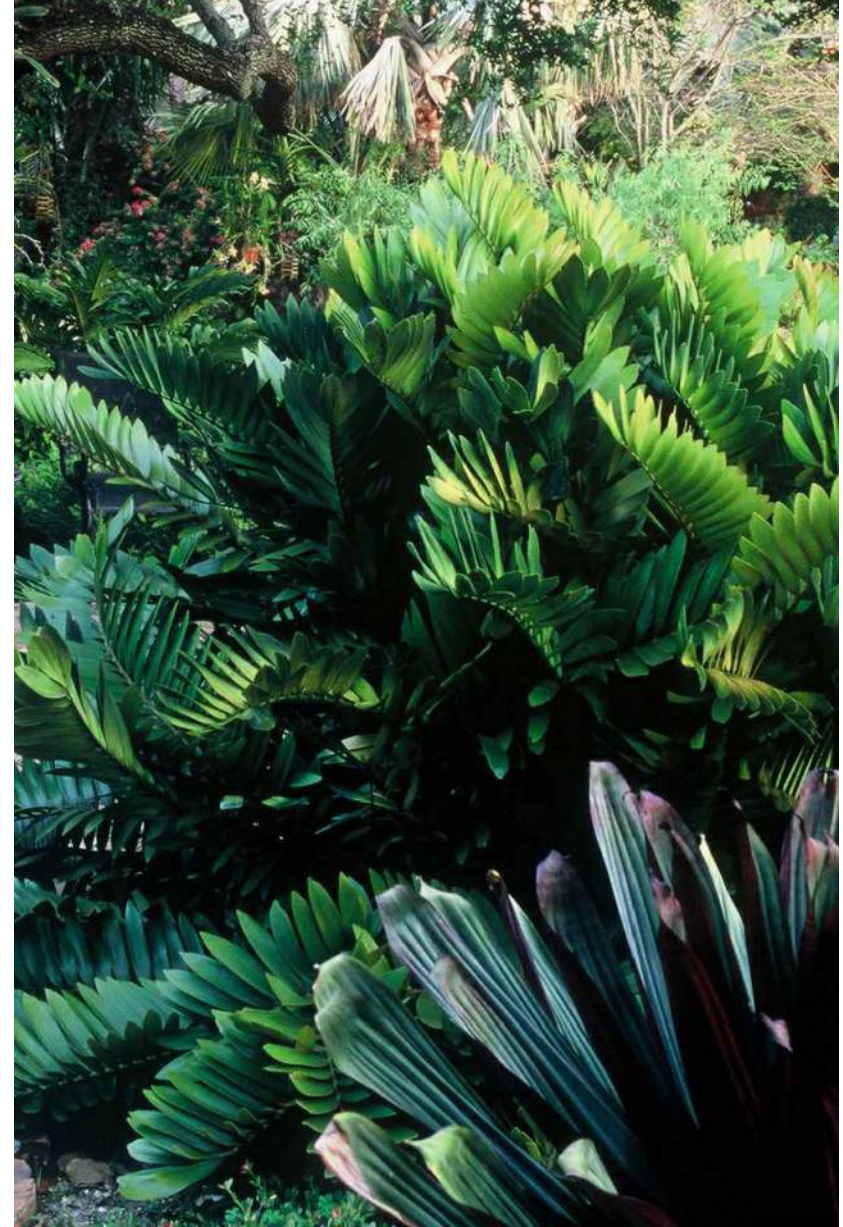
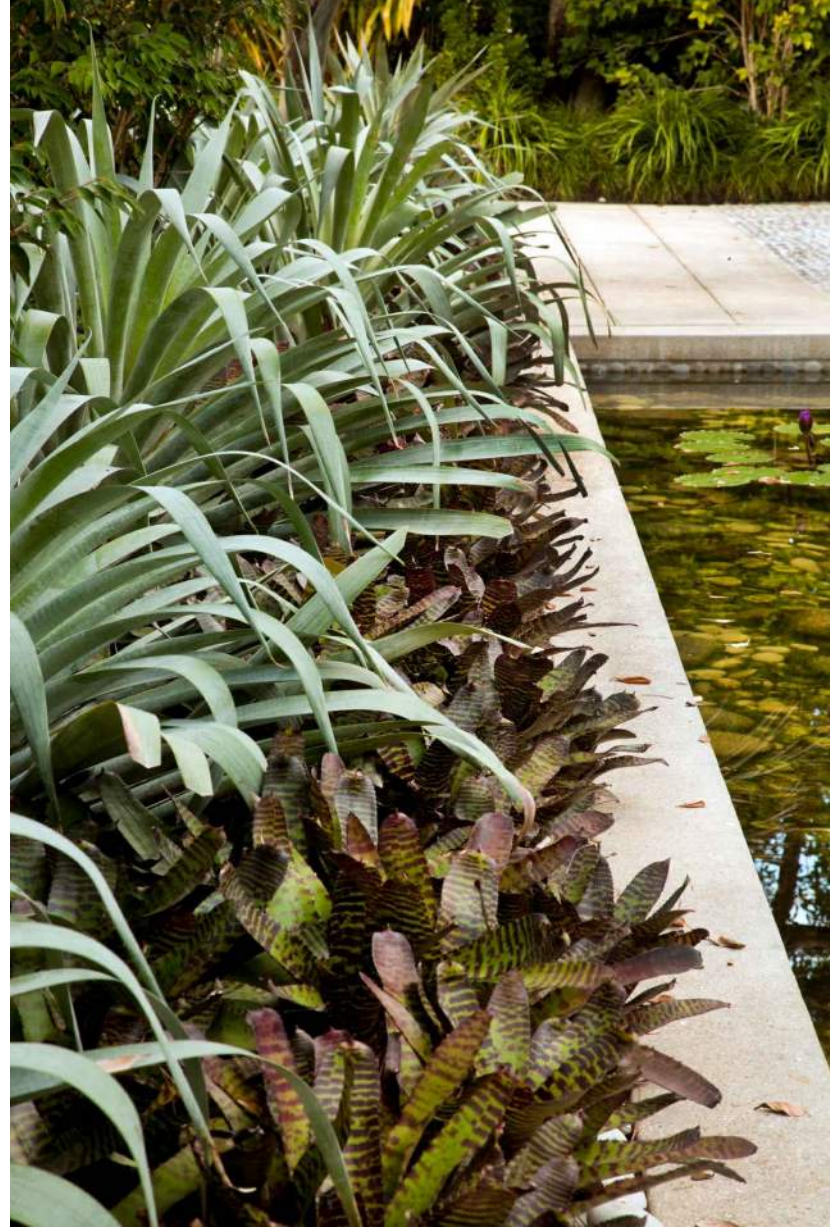
REVISIONS:

No.	Date	Description

LANDSCAPE ARCHITECT:  
  
FLORIDA LICENSE NO. L1400552  
Not valid for construction unless signed in this box

SHEET TITLE:  
**LANDSCAPE MOOD BOARD**


Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024  
SHEET NUMBER:



Final Submittal DRB 24-1014  
**MILLER GARDEN**  
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REVISIONS:

No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. 14000592  
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SHEET TITLE:  
**LANDSCAPE  
 MOOD BOARD**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LM.105**








Final Submittal DRB 24-1014  
**MILLER GARDEN**  
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REVISIONS:

No.	Date	Description

LANDSCAPE ARCHITECT:  
  
FLORIDA LICENSE NO. L14000559  
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SHEET TITLE:  
**LANDSCAPE  
MOOD BOARD**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024

SHEET NUMBER:  
**LM.108**



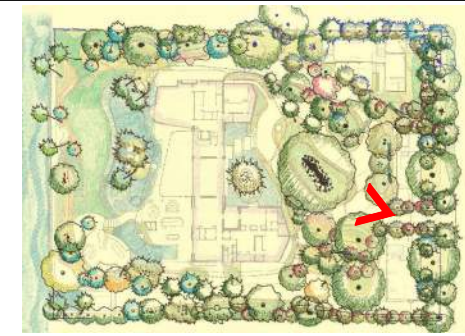












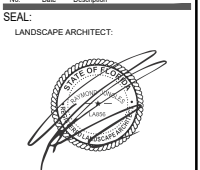
KEY PLAN (N.T.S.)



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PROJECT NO. : 22065

Final Submittal DRB 24-1014  
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No.	Date	Description

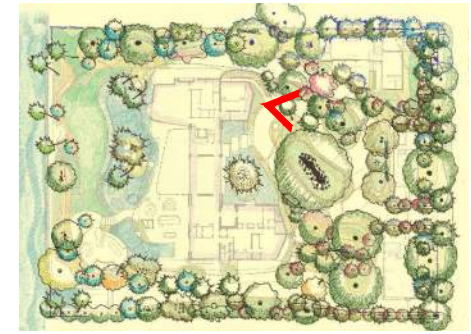


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SHEET TITLE:  
**LANDSCAPE RENDERING**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024  
SHEET NUMBER:

**LR.102**



KEY PLAN (N.T.S.)



Final Submittal DRB 24-1014

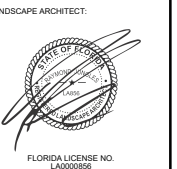
**MILLER GARDEN  
STAR ISLAND**

4-6 Star Island Drive, Miami Beach, FL 33139

REVISIONS:

No.	Date	Description

SEAL:



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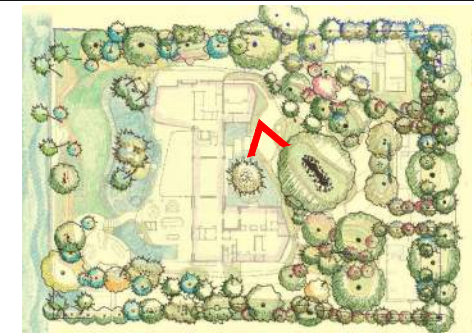
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**LANDSCAPE  
RENDERING**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024

SHEET NUMBER:

**LR.103**




KEY PLAN (N.T.S.)



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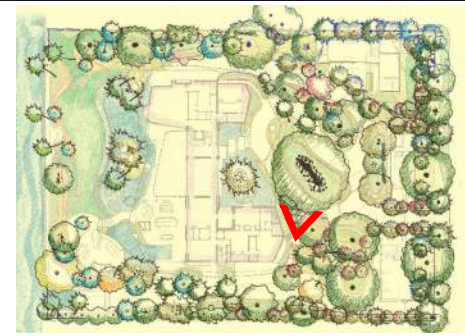
No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. LAA00059  
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SHEET TITLE:  
**LANDSCAPE RENDERING**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024  
 SHEET NUMBER:

**LR.104**



KEY PLAN (N.T.S.)



REVISIONS:

No.	Date	Description

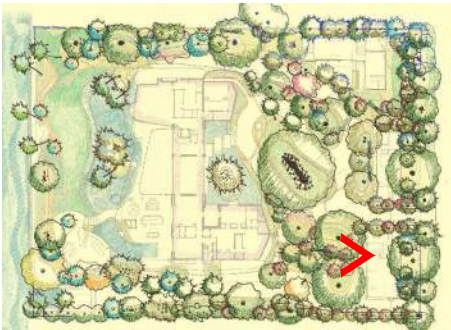
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LANDSCAPE ARCHITECT:

FLORIDA LICENSE NO. LA000959  
Not valid for construction unless signed in this box.

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**LANDSCAPE  
RENDERING**

Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024


SHEET NUMBER:  
**LR.105**



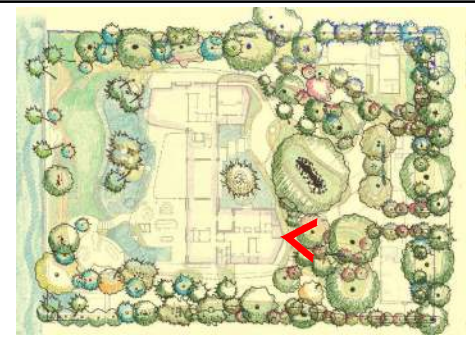
KEY PLAN (N.T.S.)



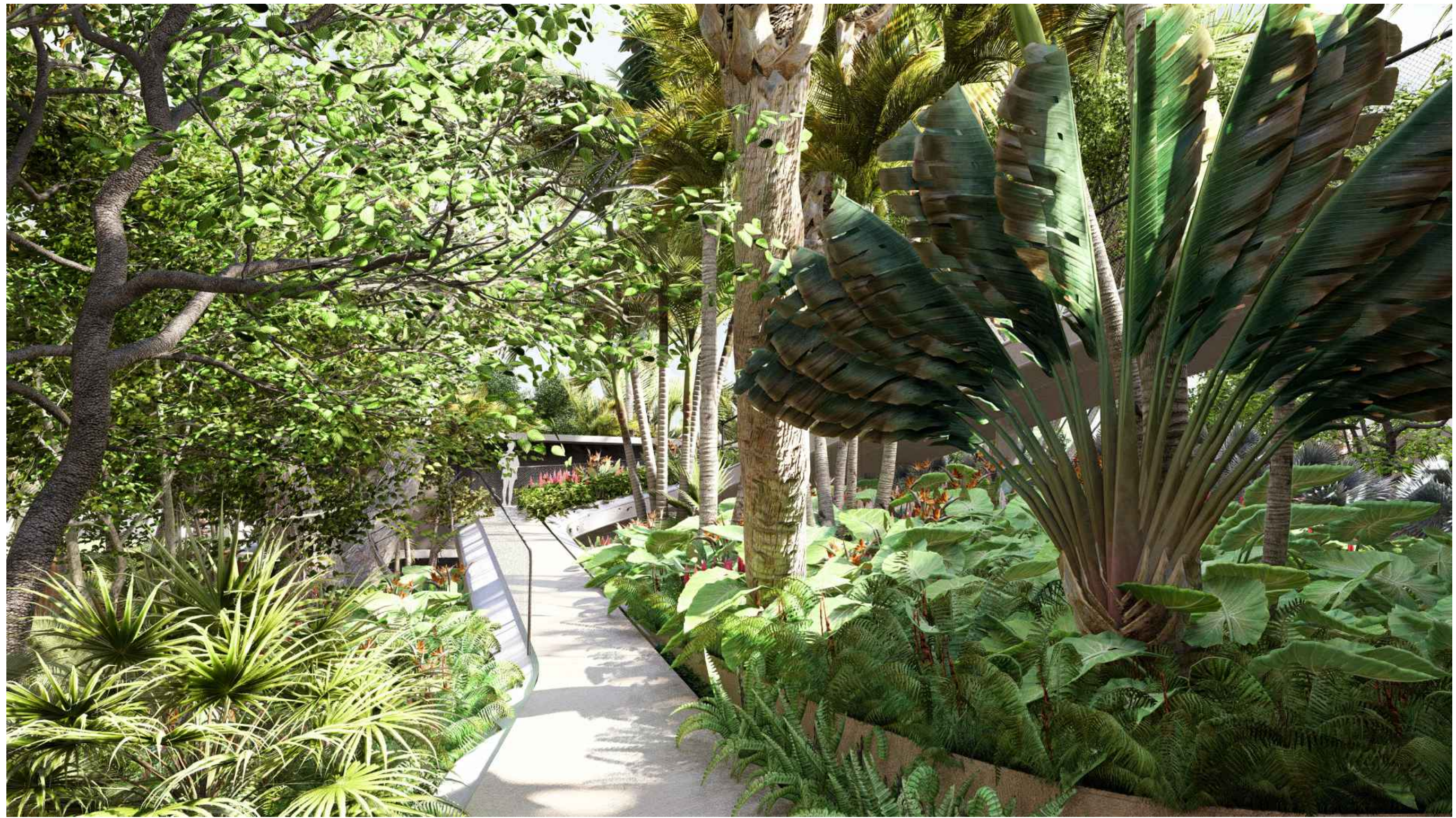
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FLORIDA LICENSE NO. LA000059  
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SHEET TITLE:  
**LANDSCAPE  
RENDERING**  
Scale: AS NOTED  
Drawn By: JL, HJ  
Checked By: BG  
Date: 04-19-2024



KEY PLAN (N.T.S.)



No.	Date	Description

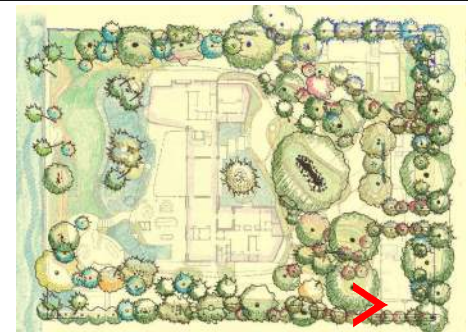
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Scale: AS NOTED  
Drawn By: JL, HJ  
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Date: 04-19-2024

SHEET NUMBER:  
**LR.107**




KEY PLAN (N.T.S.)



REVISIONS:

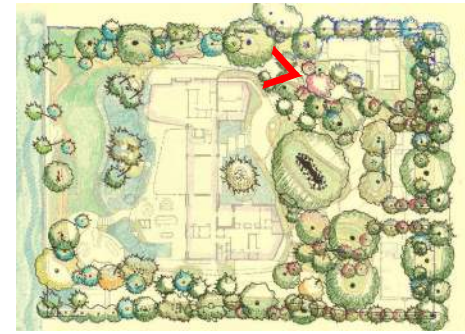
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 LANDSCAPE ARCHITECT:  
  
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Not valid for construction unless signed in this box

SHEET TITLE:  
**LANDSCAPE RENDERING**

Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LR.108**



KEY PLAN (N.T.S.)



Final Submittal DRB 24-1014  
**MILLER GARDEN**  
**STAR ISLAND**  
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REVISIONS:

No.	Date	Description

SEAL:

LANDSCAPE ARCHITECT:

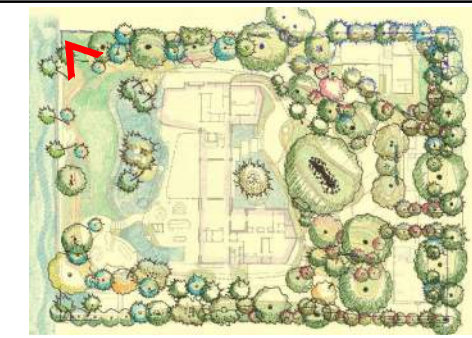
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SHEET TITLE:

**LANDSCAPE  
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Scale: AS NOTED  
Drawn By: JH, HJ  
Checked By: BG  
Date: 04-19-2024




KEY PLAN (N.T.S.)

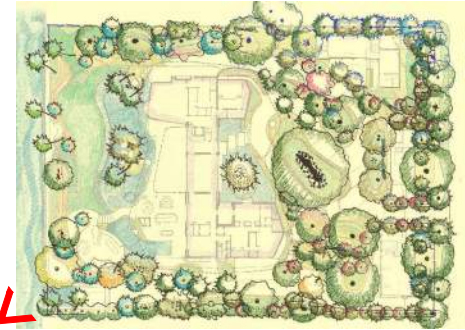


REVISIONS:

No.	Date	Description

SEAL:  
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 FLORIDA LICENSE NO. LA000059  
Not valid for construction unless signed in this box.

SHEET TITLE:  
**LANDSCAPE RENDERING**  
 Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024



KEY PLAN (N.T.S.)



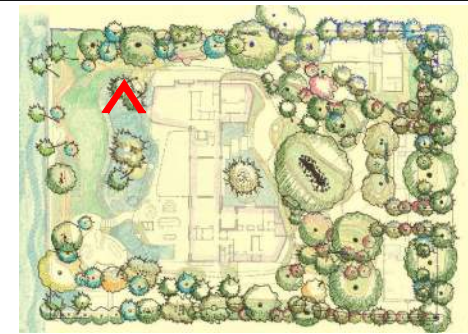
REVISIONS:

No.	Date	Description

SEAL:  
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SHEET TITLE:  
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Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024



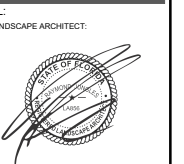
KEY PLAN (N.T.S.)



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No.	Date	Description

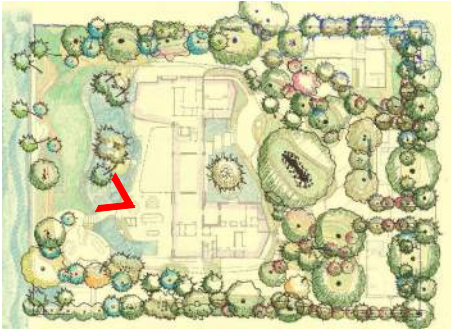


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SHEET TITLE:  
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Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LR.112**



KEY PLAN (N.T.S.)



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No.	Date	Description

SEAL:  
 LANDSCAPE ARCHITECT:  
  
 FLORIDA LICENSE NO. 12400059  
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SHEET TITLE:  
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Scale: AS NOTED  
 Drawn By: JL, HJ  
 Checked By: BG  
 Date: 04-19-2024

SHEET NUMBER:  
**LR.113**

