SCOPE OF WORK

THE FOLLOWING DRAWINGS ILLUSTRATE THE PROPOSED SCOPE OF WORK FOR **2135 LAKE AVENUE** TO BE APPROVED BY CITY OF MIAMI BEACH:

- REMOVAL OF EXISTING TREES & PALMS
- INSTALLATION NEW LANDSCAPE PLANTINGS
- INSTALLATION OF NEW AUTOMATIC IRRIGATION SYSTEM
- INSTALLATION OF NEW HARDSCAPE
- INSTALLATION OF NEW FRONT ENTRY DRIVEWAY
- INSTALLATION OF NEW LANDSCAPE LIGHTING

SHEET INDEX

LOCATION MAP

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2135 GARDEN

2135 LAKE AVENUE | MIAMI BEACH, FLORIDA 33140

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SITEWORK GENERAL NOTES

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK BY THE SUBCONTRACTORS.
2. CONTRACTOR SHALL VERIFY ALL CONDITIONS AT JOB SITE AND NOTIFY LANDSCAPE ARCHITECT AND GENERAL CONTRACTOR OF DIMENSIONAL ERRORS, OMISSIONS OR DISCREPANCIES BEFORE BEGINNING ANY WORK.
3. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. ALL CONTRACTORS MUST COMPLY WITH PERMIT REQUIREMENTS, LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES RULES AND REGULATIONS AND LAND USE APPROVAL CONDITIONS AT ALL TIMES.
4. WORK PERFORMED WITHOUT APPROVAL OF LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES AND/OR NOT IN COMPLIANCE WITH SPECIFICATIONS AND/OR DRAWINGS IS SUBJECT TO REMOVAL AT CONTRACTOR'S EXPENSE.
5. ALL WORK SHALL CONFORM TO THE APPROPRIATE AGENCIES. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES, LINES AND STRUCTURES PRIOR TO EXCAVATION OR TRENCHING. DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. THE LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN ON THE DRAWINGS. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO CONSTRUCTION AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING OVER OR NEAR EXISTING GAS AND ELECTRICAL LINES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING ALL LAND MONUMENTS DISRUPTED BY CONSTRUCTION ACTIVITIES OR NEGLIGENCE ON THE PART OF THE CONTRACTOR. RESETS SHALL BE PERFORMED UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR AND MONUMENT RECORDS MUST BE FILED AS REQUIRED BY STATUTE FOR ALL MONUMENTS.
7. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS AND STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED SATISFACTORY TO THE LANDSCAPE ARCHITECT AT THE CONTRACTOR'S EXPENSE.
8. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES STANDARDS. PROVIDE ADEQUATE TIME FOR REVIEW AND APPROVAL BY THE ABOVE JURISDICTIONS PRIOR TO COMMENCEMENT.
9. THE LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES UTILIZED OR FOR SAFETY PRECAUTIONS OR PROBLEMS IN CONNECTION WITH THE WORK. THE LANDSCAPE ARCHITECT WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONTRACT DOCUMENTS INCLUDE THE CONSTRUCTION DOCUMENT DRAWING SET/TECHNICAL SPECIFICATIONS MANUAL/LASIS.
10. CONTRACTOR TO VERIFY ALL QUANTITIES. IN CASE OF ANY DISCREPANCIES, GRAPHICALLY SHOWN MATERIAL QUANTITIES SHALL TAKE PRECEDENCE.
11. A SYSTEM OF DIAGRAMMATIC SYMBOLS, HATCHES AND NOTATIONS IS USED IN THESE DRAWINGS. REVIEW NOTATIONS CAREFULLY, NOTIFY LANDSCAPE ARCHITECT AND REQUEST CLARIFICATION OF ANY UNCLEAR NOTATION OR DISCREPANCY PRIOR TO COMMENCING WORK.

SITEWORK GENERAL NOTES CONTINUED

1. PROVIDE SLEEVES AS REQUIRED FOR DRAINAGE, IRRIGATION AND ELECTRICAL LINES. IRRIGATION AND ELECTRICAL SLEEVES AND SUBSURFACE DRAINAGE SYSTEMS SHALL BE CONSTRUCTED PRIOR TO PAVING AND LANDSCAPE WORK. UTILITY SLEEVES ARE REQUIRED IN ALL PLANT BEDS ISOLATED BY PAVEMENT OR ANY OTHER STRUCTURES.
2. SPECIAL CONSIDERATION IS GIVEN TO THE DESIGN AND INTENDED RELATIONSHIP BETWEEN ARCHITECTURE, PLANTING AREAS AND PAVING SYSTEMS. PAVEMENT JOINTING, PAVERS, STONE, FINISHES AND GRADES HAVE BEEN STRICTLY COORDINATED IN THE CONTRACT DOCUMENTS. CONSTRUCTION OF THESE SYSTEMS SHALL BE STRICTLY COORDINATED.
3. VEHICLES, EQUIPMENT, AND/OR MATERIALS SHALL NOT BE PARKED OR STORED IN AREAS OF EXISTING VEGETATION, INCLUDING WITHIN THE DRIPLINE OF EXISTING TREES TO REMAIN.
4. CONSTRUCTION WASTE-INCLUDING BUT NOT LIMITED TO: PLANT MATERIAL, BUILDING MATERIALS, DEMOLISHED MATERIALS, PACKAGING, LEFTOVER PAINT AND CONCRETE SLURRY-SHOULD BE PROPERLY REUSED, RECYCLED, DISPOSED OF LEGALLY OFF-SITE OR IN DESIGNATED WASH-OUT AREAS DETERMINED BY THE GENERAL CONTRACTOR.
5. RECYCLING AND TRASH BINS TO BE PROVIDED ON SITE. SEPARATE BINS FOR CARDBOARD, CO-MINGLED, AND OTHER RECYCLABLE/REUSABLE MATERIALS IDENTIFIED BY THE LOCAL JURISDICTION SHALL BE MAINTAINED. ALL BINS TO BE WILDLIFE-PROOF.
6. ON-SITE FUEL STORAGE FOR CONSTRUCTION EQUIPMENT IS DISCOURAGED. CONSTRUCTION EQUIPMENT USED ON SITE TO BE CHECKED REGULARLY TO ASSURE CONTAMINATION CONCERNS FROM OILS AND GREASES ARE ELIMINATED. NO TOXIC MATERIALS SHALL BE STORED ON-SITE.
7. GENERAL CONTRACTOR TO KEEP ALL ITEMS IMPLEMENTED BY LANDSCAPE ARCHITECT IN PROPER WORKING ORDER THROUGHOUT THE DURATION OF THE PROJECT.
8. THE CONSTRUCTION SITE TO BE INSPECTED ON A MONTHLY BASIS BY LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER TO ASSURE THAT THE SILT FENCE AND MUD TRACKING PAD ARE PROPERLY IN PLACE AND FUNCTIONING AS DESIGNED.
9. GREEN BUILDING PRACTICES SHALL BE EMPLOYED TO THE EXTENT FEASIBLE. SUCH PRACTICES INCLUDE: CARPOOLING/VANPOOLING TO JOB SITE, MINIMIZING MATERIALS PACKING BEFORE ARRIVAL TO JOB SITE, REDUCING MATERIAL/RESOURCE INEFFICIENCIES BY COORDINATING WORK.
10. THE PROJECT LIMIT OF CONSTRUCTION AND ALL EXISTING VEGETATION TO REMAIN IS TO BE CLEARLY DEFINED BY STURDY, WEATHERPROOF FENCING AT A MINIMUM OF FOUR (4) FEET HIGH.
11. WATERPROOFING OF SUBGRADE AND OTHER ARCHITECTURAL SPACES BELOW AND/OR ADJACENT TO IMPROVEMENTS DESIGNED BY THE LANDSCAPE ARCHITECT IS TO BE ADEQUATELY DESIGNED AND DETAILED BY OTHERS TO PERMANENTLY REPEL ALL WATER SOURCES INCLUDING, BUT NOT LIMITED TO: PRECIPITATION, STORM WATER RUNOFF, GROUND WATER, IRRIGATION, ROOF RUNOFF, GROUND WATER, AND PLUMBING LEAKS.
12. STRUCTURAL DESIGN TO SUPPORT IMPROVEMENTS DESIGNED BY THE LANDSCAPE ARCHITECT AND LOCATED ABOVE, BELOW, AND/OR ADJACENT TO SUBGRADE AND OTHER ARCHITECTURAL SPACES IS THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER. THE STRUCTURAL DESIGN SHOULD BE ADEQUATELY DESIGNED TO SUPPORT ALL POSSIBLE LOADS INCLUDING, BUT NOT LIMITED TO: BACKFILL, COMPACTION, PLANTINGS, HARDSCAPES, RETAINING AND FREESTANDING SITE WALLS, AND CONSTRUCTION MATERIALS/EQUIPMENT/ACTIVITY.

SOIL EROSION CONTROL NOTES

1. PRIOR TO BEGINNING ANY EARTH CHANGE, THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL SESC MEASURES AS SHOWN ON THE CONTRACT DOCUMENTS AND AS REQUIRED BY ANY GOVERNING AGENCIES.
2. ALL SESC MEASURES TO BE MAINTAINED DAILY.
3. THE CONTRACTOR TO CONDUCT ALL EXCAVATION, FILLING, GRADING, AND CLEANUP OPERATIONS IN A MANNER SUCH THAT SEDIMENT, GENERATED BY WIND OR WATER IS NOT DISCHARGED INTO ANY STORM SEWER, DRAINAGE DITCH, RIVER, LAKE, AIR, OR UNDERGROUND UTILITY SYSTEM. STAGE WORK TO MINIMIZE THE AREA OF EXPOSED SOIL, THEREBY REDUCING THE OPPORTUNITY FOR SOIL EROSION.
4. WATER FROM TRENCHES AND OTHER EXCAVATION TO BE PUMPED INTO A FILTRATION BAG TO REMOVE SEDIMENTS FROM THE WATER.
5. NORTH AMERICAN GREEN SC-150 OR EQUIVALENT EROSION CONTROL FABRIC IS REQUIRED ON ALL DISTURBED SLOPES GREATER THAN 3:1 UNTIL PROJECT AREA IS REVEGETATED PER THE PLANTING PLAN.
6. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
7. CONTRACTOR TO PROVIDE ONSITE WATERING TO REDUCE FUGITIVE DUST LEAVING THE SITE DURING CONSTRUCTION.
8. SOIL EROSION CONTROL MEASURES TO BE PROVIDED FOR ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES WITHIN THE PROJECT LIMITS.
9. CONSTRUCTION STAGING AND PHASING SHALL OCCUR, WHERE APPLICABLE, TO MINIMIZE SOIL DISTURBANCE TIME.
10. BEST MANAGEMENT PRACTICES (BMPs) SHALL BE ADJUSTED AS NEEDED TO MEET ANY OTHER UNFORESEEN CONDITIONS.
11. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING A MUD TRACKING PAD/WASHING PAD AT THE CONSTRUCTION ENTRANCES TO MINIMIZE MUD DETACHMENT FROM TRUCK TIRES. 1-1/2 INCH SCREENED ROCK TO BE PLACED ON MIRAFI 140-N FILTER FABRIC. ADDITIONAL CLEAN GRAVEL TO BE ADDED THROUGHOUT THE DURATION OF CONSTRUCTION AS NEEDED.
12. CONTRACTOR SHALL ABIDE BY THE LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES CONSTRUCTION MANAGEMENT PLAN FEQUIREMENTS.
13. RESEED AS INDICATED IN SEEDING NOTES.

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GENERAL SITE NOTES

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CONTRACTOR QUALIFICATIONS

1. CONTRACTOR MUST BE A LICENSED LANDSCAPE CONTRACTOR.
2. CONTRACTOR MUST HAVE A MINIMUM OF 10 YEARS OF PROVEN EXPERIENCE RELOCATING LARGE SPECIMEN TREES AND PALMS IN SOUTH FLORIDA.
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.
4. CONTRACTOR MUST HAVE A CERTIFIED ARBORIST ON STAFF

CONTRACTOR REQUIREMENTS

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. 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.
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.
4. CONTRACTOR MUST DESIGNATE A COMPETENT, ENGLISH-SPEAKING SUPERVISOR OR FOREMAN OVERSEE AND DIRECT ALL RELOCATION AND MAINTENANCE ACTIVITIES AS OUTLINED IN THESE SPECIFICATIONS.
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 SCHEDULEFOR EACH TREE OR PALM TO BE RELOCATED AS AN ATTACHMENT TO THE BID.
6. CONTRACTOR MUST CALL SUNSHINE 811 TO HAVE ALL UNDERGROUND UTILITIES LOCATED UNDER OR IN THE VICINITY OF THE CURRENT OF FUTURE LOCATIONS OF ALL TREES AND PALMS TO BE RELOCATED PRIOR TO WORK COMMENCING.
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.
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.
9. CONTRACTOR MUST FLAG ALL PROPOSED TRANSPLANT LOCATION FOR THE LANDSCAPE ARCHITECT'S APPROVAL A MINIMUM OF 15 DAYS PRIOR TO RELOCATION.
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.
11. CONTRACTOR MUST BE ENSURE THAT ALL ROOT FLARES ARE EXPOSED AFTER RELOCATION.
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.
13. CONTRACTOR MUST BE 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.
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.
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.
16. CONTRACTOR MUST OBTAIN ALL NECESSARY OR REQUIRED PERMITS FOR THE RELOCATION AND TRANSPORTATION OF THE TREES AND PALMS TO BE RELOCATED.
17. 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.
18. 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.

TREE ROOT PRUNING SPECIFICATIONS

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. EACH TREE AND PALMS 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. 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.
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.
5. MYCORRHIZA (ROOTS® TRANSPLANT OR EQUIVALENT) MUST BE INCORPORATED INTO THE BACKFILL SOIL PRIOR TO BACKFILLING AS PER MANUFACTURER'S RECOMMENDATIONS.
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.
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.
8. 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.
9. MANY TREE RELOCATION SPECIFICATIONS USE "GENEFAL 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 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 LIST 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	8
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

1. WHENEVER POSSIBLE, ROOTBALLS MUST BE CIRCULAR IN SHAPE WITH AN EQUAL DISTANCE FROM THE TRUNK TO THE EDGE OF ROOTBALL ALL AROUND.
2. 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. 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.
4. 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.

PALM ROOT PRUNING SPECIFICATIONS

1. 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	24" from trunk in all directions

2. PALM ROOTBALL 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. 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.
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 (GASTROCOCOS CRISPA)
   - GINGERBREAD/DOUM PALMS (ALL SPECIES OF HYPHAENE)
   - PALMYRA PALMS (ALL SPECIES OF BORASSUS)
   - SATAKE PALM (SATAKENTIA LIUKIUENSIS)
   - SAW PALMETTO (SERENOA REPENS)
   - SILVER PALM (COCCOTHRINAX ARGENTATA)
   - 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).

TREE CANOPY PRUNING SPECIFICATIONS

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.
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 TREES MUST BE PRESERVED.
3. FOR TREES BEING RELOCATED OFFSITE, THE CANOPY MUST BE PRUNED, AT THE DIRECTIONS OF THE LANDSCAPE ARCHITECT, TO FIT ON THE TRAILER FOR TRANSPORT. EVERY EFFORT MUST BE MADE TO RETAIN AS MANY BRANCHES 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. ALL CANOPY PRUNING MUST BE CONDUCTED FOLLOWING ANSI A-300 TREE PRUNING STANDARDS AND BEST MANAGEMENT PRACTICES.
5. ALL DEBRIS GENERATED DURING CANOPY PRUNING MUST BE REMOVED OFFSITE AND DISPOSED.

PALM CANOPY PRUNING SPECIFICATIONS

1. IT IS WELL KNOW 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.
2. PALMS LEAVES MUST BE TIED UP WITH 2-PLY BIODEGRADABLE TWINE PRIOR TO RELOCATION TO PREVENT MECHANICAL DAMAGE DURING THE RELOCATION PROCESS.
3. PALM TRUNKS SHALL ONLY BE 'CLEANED UP' ACCORDING TO THE LANDSCAPE ARCHITECT'S SPECIFICATIONS SPECIFIC TO EACH PALM.

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SEAL (S TYLER NIELSEN - LA6667067)

09.05.2019

TREE DISPOSITION NOTES

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TREES PROTECTION NOTES

1. CONTRACTOR TO PROTECT ALL EXISTING TREES PRIOR TO THE DEMOLITION OF THE EXISTING STRUCTURE.
2. UPON COMPLETION OF OF SITE DEMOLITION, CONTRACTOR TO RELOCATE ALL SPECIFIED TREES AND PALMS FOR RELOCATION. CONTRACTOR TO REINSTALL TREE PROTECTION FENCE AROUND RELOCATED AND EXISTING TREES.
3. FENCING AT A MINIMUM FOUR (4) FEET HEIGHT INSTALLED NO CLOSER TO THE TREE TRUNK THAN ITS DRIPLINE. THIS FENCE SHALL BE MAINTAINED IN WORKING ORDER DURING ALL PHASES OF CONSTRUCTION. MAINTAIN TREE PROTECTION ZONES FREE OF WEEDS AND TRASH.
4. THE PROJECT LIMIT OF CONSTRUCTION AND ALL EXISTING VEGETATION TO REMAIN IS TO BE CLEARLY DEFINED BY STURDY, WEATHERPROOF FENCING AT A MINIMUM OF FOUR (4) FEET HIGH.
5. 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 RAILS. POSTS MAY BE SHIFTED TO AVOID ROOTS.

MAINTENANCE SPECIFICATIONS

1. ALL RELOCATED TREES AND PALMS MUST BE MAINTAINED FOR ONE YEAR FROM THE DATE OF RELOCATION TO THEIR FINAL LOCATIONS.
2. CONTRACTOR MUST MAINTAIN ALL RELOCATED TREES AND PALMS FOR ONE FULL YEAR FROM THE DATE OF RELOCATION TO THE FINAL LOCATION.
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.
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.
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. 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.
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.
8. 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.
9. 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.
10. FOLIAR FEED FOUR TIMES PER YEAR.
11. 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.
12. 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.
13. FOLIAR FEED PALMS SIX TIMES PER YEAR.

RELOCATION SPECIFICATIONS

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.
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.
3. ALL ROOTBALLS MUST BE WRAPPED IN BURLAP AND THE 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 ROOT 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.
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. 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'' HIGHER0 FINAL GRADE.
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 THE TRUNK USED ONLY FOR BALANCING AND MANEUVERING THE TREE OR PALM INTO A 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.
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 INSTALL LOCATION OR TRANSPORT TRAILER.
8. ONCE LIFTING BEINGS, 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.
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.
10. MYCORRHIZA (ROOTS® TRANSPLANT OR EQUIVALENT) MUST BE INCORPORATED INTO THE BACKFILL SOIL PRIOR TO BACKFILLING.
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.
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 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 BRACING. BRACING MUST REMAIN IN PLACE FOR A MINIMUM OF ONE YEAR.
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.
14. ONCE THE TREE RING IS CONSTRUCTED, A HIGH-PHOSPHORUS ROOT STIMULANT MUST BE LIBERALLY APPLIED TO THE SURFACE AND THOROUGHLY WATERED IN.
15. ROOTBALLS MUST BE A THOROUGHLY WATERED IN USING A HOSE AND 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 6'' OF THE TRUNK. MULCH MUST NOT BE APPLIED OR ALLOWED TO ACCUMULATE DIRECTLY AGAINST THE TRUNK.
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.
17. PITS FROM WHICH THE RELOCATED TREES AND PALMS WERE REMOVED MUST BE CLEANED OFF ALL RESIDUAL ROOTS, STUMPS, AND PORTIONS THEREOF AND BACKFILLED WITH CLEAN FILL FLUSH WITH THE SURROUNDING GRADE.
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 THE SUBSTANTIAL COMPLETION.
19. MULTI-TRUNK TREES AND PALMS MUST BE RELOCATED AS ONE UNIT WITH A SINGLE ROOTBALL.
20. PLANTING PITS FOR EDIBLE DATE PALMS (PHOENIX DACTYLIFERA) MUST BE BACKFILLED WITH PURE DOT SILICA SAND.

WARRANTY NOTES

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

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09.05.2019

TREE DISPOSITION NOTES

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L101

TREE DISPOSITION SCHEDULE

#	BOTANICAL NAME	COMMON NAME	DBH.	HT.	SPREAD	ACTION	CRZ	TPZ	CANOPY	CONDITION	NATIVE	NOTES
1	VEITCHIA MERRILLII	CHRISTMAS PALM	6"	35'	6'	REMOVE	8'	8'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
2	COCOS NUCIFERA	COCONUT PALM	6"	25'	12'	REMOVE	8'	8'	113	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
3	FICUS BENJAMINA	WEEPING FIG	12"	4'	10'	REMOVE	NA	NA	0	POOR	NO	FICUS HEDGE - NO MITIGATION REQUIRED
4	VEITCHIA MERRILLII	CHRISTMAS PALM	6"	35'	6'	REMOVE	8'	8'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
5	FICUS BENJAMINA	WEEPING FIG	12"	4'	10'	REMOVE	NA	NA	0	POOR	NO	FICUS HEDGE - NO MITIGATION REQUIRED
6	FICUS BENJAMINA	WEEPING FIG	12"	4'	10'	REMOVE	NA	NA	0	POOR	NO	FICUS HEDGE - NO MITIGATION REQUIRED
7	FICUS BENJAMINA	WEEPING FIG	12"	4'	10'	REMOVE	NA	NA	0	POOR	NO	FICUS HEDGE - NO MITIGATION REQUIRED
8	MANGIFERA INDICA	MANGO	24"	38'	15'	REMOVE	24'	24'	176	MODERATE	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
9	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4"	35'	6'	REMOVE	6'	6'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
10	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4"	35'	6'	REMOVE	6'	6'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
11	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4"	35'	6'	REMOVE	6'	6'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
12	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4"	35'	6'	REMOVE	6'	6'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
13	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4"	35'	6'	REMOVE	6'	6'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
14	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4"	35'	6'	REMOVE	6'	6'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
15	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4"	35'	6'	REMOVE	6'	6'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
16	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4"	35'	6'	REMOVE	6'	6'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
17	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4"	35'	6'	REMOVE	6'	6'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
18	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM	4"	35'	6'	REMOVE	6'	6'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
19	VEITCHIA MERRILLII	CHRISTMAS PALM	6"	35'	6'	REMOVE	8'	8'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
20	VEITCHIA MERRILLII	CHRISTMAS PALM	6"	35'	6'	REMOVE	8'	8'	28	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
21	MANGIFERA INDICA	MANGO	12"	20'	14'	REMOVE	24'	24'	153	MODERATE	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
22	FICUS ALTISSIMA	FIG	36"	36'	48'	REMOVE	36'	36'	1,809	GOOD	NO	INVASIVE
23	LIVISTONA CHINENSIS	CHINESE FAN PALM	18"	22'	8'	REMOVE	6'	6'	50	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
24	LIVISTONA CHINENSIS	CHINESE FAN PALM	18"	22'	8'	REMOVE	6'	6'	50	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
25	LIVISTONA CHINENSIS	CHINESE FAN PALM	18"	22'	8'	REMOVE	6'	6'	50	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
26	LIVISTONA CHINENSIS	CHINESE FAN PALM	18"	22'	8'	REMOVE	6'	6'	50	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE
27	LIVISTONA CHINENSIS	CHINESE FAN PALM	18"	22'	8'	REMOVE	6'	6'	50	GOOD	NO	PLANT CONFLICTS WITH THE CONSTRUCTION ENVELOPE

TOTAL CANOPY AREA REMOVED = 2,893 SQUARE FEET (2,138 TREES & 755 PALM)

1

MITIGATION NOTES

1. THE PROPERTY OWNER IS RESPONSIBLE FOR THE MITIGATION OF THE ABOVE TREES SPECIFIED FOR REMOVAL.

1.1. TREES REMOVED EQUALS 2,138 SQUARE FEET OF CANOPY. THE LANDSCAPE DRAWINGS PROPOSE TO MITIGATE FOR THE REMOVAL OF THE TREES IN THE FOLLOWING MANNER:

1.1.1. PLANT THE EQUIVALENT OF (05) CATEGORY 1 (4 IN. DBH / 16 FT. HEIGHT / 8 FT. SPREAD) TREES ON-SITE.

1.2. PALMS REMOVED EQUALS 755 SQUARE FEET OF CANOPY. THE LANDSCAPE DRAWINGS PROPOSE TO MITIGATE FOR THE REMOVAL OF THE PALMS IN THE FOLLOWING MANNER:

1.2.1. PLANT THE EQUIVALENT OF (12) ROYAL PALMS, CATEGORY 4.
1.2.2. PLANT THE EQUIVALENT OF (08) COCONUT PALMS, CATEGORY 4.
1.2.3. 1,000 SQUARE FEET OF MITIGATION CANOPY TOTAL.

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09.05.2019

TREE DISPOSITION PLAN

DATE	ISSUE
08.15.2019	MB DRB
09.05.2019	REVISION 01

L102

TREE DISPOSITION SCHEDULE

#	BOTANICAL NAME	COMMON NAME
1	VEITCHIA MERRILLII	CHRISTMAS PALM
2	COCOS NUCIFERA	COCONUT PALM
3	FICUS BENJAMINA	WEEPING FIG
4	VEITCHIA MERRILLII	CHRISTMAS PALM
5	FICUS BENJAMINA	WEEPING FIG
6	FICUS BENJAMINA	WEEPING FIG
7	FICUS BENJAMINA	WEEPING FIG
8	MANGIFERA INDICA	MANGO
9	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM
10	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM
11	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM
12	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM
13	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM
14	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM
15	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM
16	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM
17	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM
18	PTYCHOSPERMA ELEGANS	SOLITAIRE PALM
19	VEITCHIA MERRILLII	CHRISTMAS PALM
20	VEITCHIA MERRILLII	CHRISTMAS PALM
21	MANGIFERA INDICA	MANGO
22	FICUS ALTISSIMA	FIG
23	LIVISTONIA CHINENSIS	CHINESE FAN PALM
24	LIVISTONIA CHINENSIS	CHINESE FAN PALM
25	LIVISTONIA CHINENSIS	CHINESE FAN PALM
26	LIVISTONIA CHINENSIS	CHINESE FAN PALM
27	LIVISTONIA CHINENSIS	CHINESE FAN PALM

TREE DISPOSITION LEGEND

TREE TO BE REMOVED

PALM TO BE REMOVED

TREE TO BE PRESERVED

PALM TO BE PRESERVED

PROPERTY LINE
119.25 FT.

PROPERTY LINE
212.00 FT.

CALOPHYLLUM TREE (OFF SITE)

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NORTH

0 8' 16'

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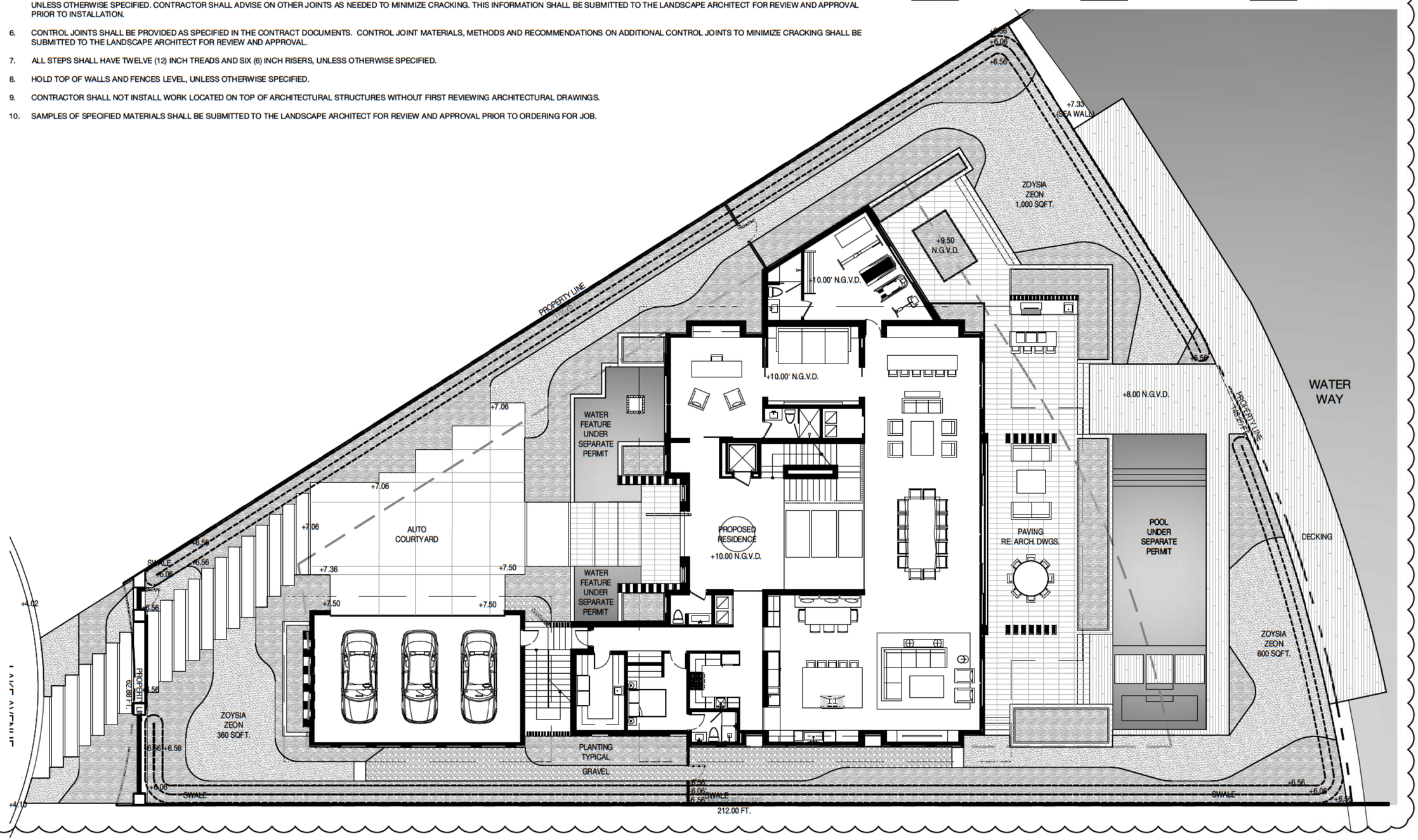
MATERIALS NOTES

1. CONTRACTOR TO VERIFY ALL QUANTITIES. IN CASE OF ANY DISCREPANCIES, GRAPHICALLY SHOWN MATERIAL QUANTITIES SHALL TAKE PRECEDENCE.
2. ALL CONSTRUCTION AND MATERIALS NOT SPECIFICALLY ADDRESSED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES STANDARDS.
3. THE CONTRACTOR SHALL PROVIDE A FULL-SCALE MOCKUP AND RECEIVE APPROVAL FROM THE LANDSCAPE ARCHITECT FOR ALL SYSTEMS BEFORE BEGINNING CONSTRUCTION OF PAVEMENT.
4. EXPANSION JOINTS SHALL BE PROVIDED WHERE FLATWORK MEETS VERTICAL STRUCTURES, SUCH AS WALLS, CURBS, STEPS, AND OTHER HARDSCAPE ELEMENTS. EXPANSION JOINTS SHALL ALSO BE PROVIDED AT MATERIAL CHANGES. EXPANSION JOINT MATERIALS/METHODS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
5. CONTROL JOINTS SHOULD BE SPACED NO GREATER THAN TEN (10) LINEAR FEET MAXIMUM, UNLESS OTHERWISE SPECIFIED. EXPANSION JOINTS SHOULD BE SPACED NO GREATER THAN FORTY (40) LINEAR FEET MAXIMUM, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL ADVISE ON OTHER JOINTS AS NEEDED TO MINIMIZE CRACKING. THIS INFORMATION SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
6. CONTROL JOINTS SHALL BE PROVIDED AS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTROL JOINT MATERIALS, METHODS AND RECOMMENDATIONS ON ADDITIONAL CONTROL JOINTS TO MINIMIZE CRACKING SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.
7. ALL STEPS SHALL HAVE TWELVE (12) INCH TREADS AND SIX (6) INCH RISERS, UNLESS OTHERWISE SPECIFIED.
8. HOLD TOP OF WALLS AND FENCES LEVEL, UNLESS OTHERWISE SPECIFIED.
9. CONTRACTOR SHALL NOT INSTALL WORK LOCATED ON TOP OF ARCHITECTURAL STRUCTURES WITHOUT FIRST REVIEWING ARCHITECTURAL DRAWINGS.
10. SAMPLES OF SPECIFIED MATERIALS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR JOB.

MATERIALS LEGEND

PLANTING AREA TYPICAL
CRUSHED ALABAMA LIMESTONE GRAVEL
DECKING
ZOYSIA ZEON SOD
WATER
PAVING; RE: ARCH. DWGS.



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2135 GARDEN

2135 LAKE AVENUE | MIAMI BEACH, FLORIDA 33140

SEAL (S TYLER NIELSEN - LA6667067)

09.05.2019

MATERIALS PLAN

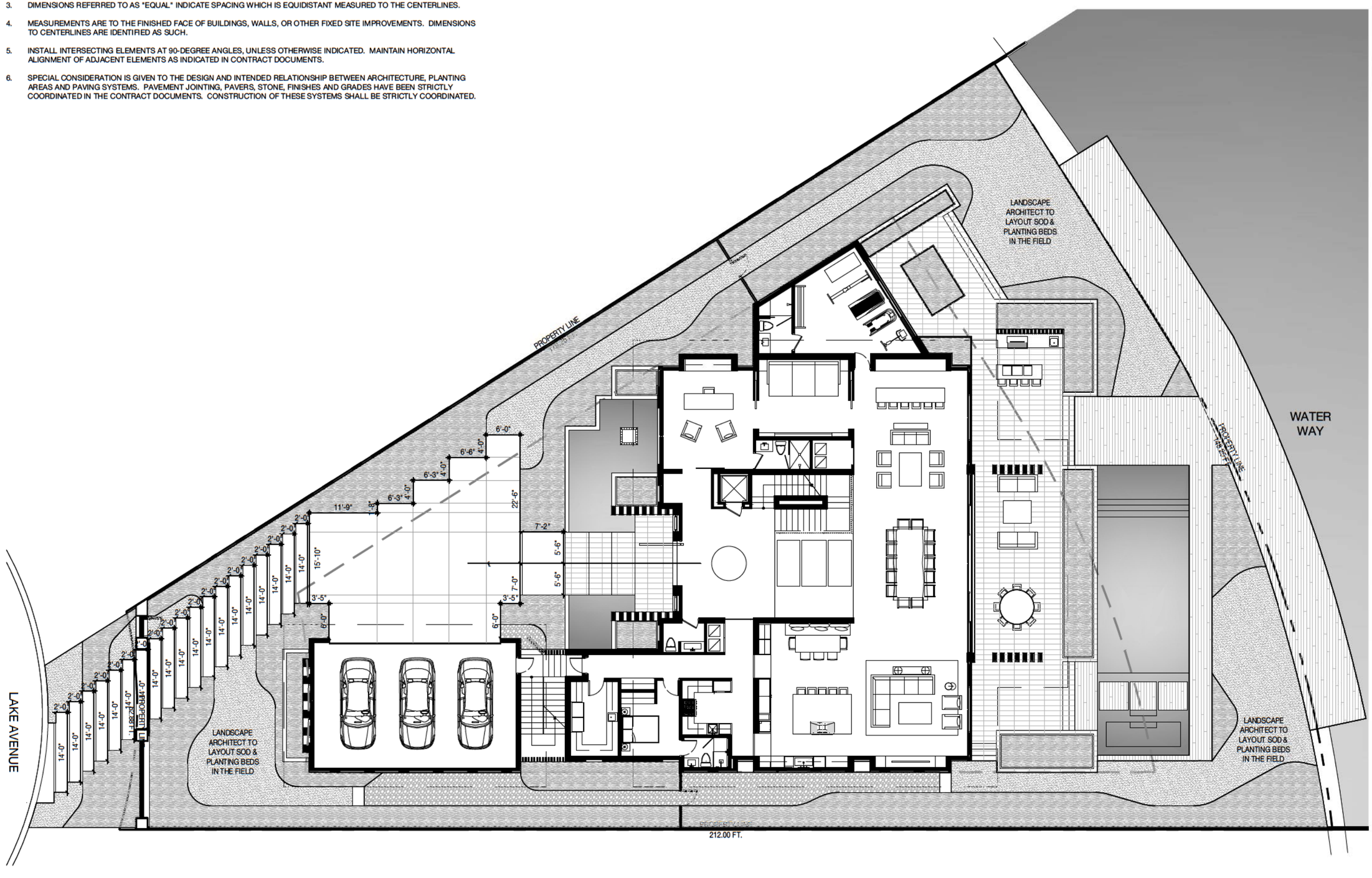
DATE	ISSUE
08.15.2019	MB DRB
09.05.2019	REVISION 01

NORTH
0 8' 16'

L300

LAYOUT NOTES

1. LAYOUT AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. LANDSCAPE ARCHITECT TO REVIEW AND APPROVE ALL LAYOUTS CONTAINED IN THE CONSTRUCTION DOCUMENTS PRIOR TO CONSTRUCTION.
2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DIMENSIONS FROM REDUCED DRAWINGS.
3. DIMENSIONS REFERRED TO AS "EQUAL" INDICATE SPACING WHICH IS EQUIDISTANT MEASURED TO THE CENTERLINES.
4. MEASUREMENTS ARE TO THE FINISHED FACE OF BUILDINGS, WALLS, OR OTHER FIXED SITE IMPROVEMENTS. DIMENSIONS TO CENTERLINES ARE IDENTIFIED AS SUCH.
5. INSTALL INTERSECTING ELEMENTS AT 90-DEGREE ANGLES, UNLESS OTHERWISE INDICATED. MAINTAIN HORIZONTAL ALIGNMENT OF ADJACENT ELEMENTS AS INDICATED IN CONTRACT DOCUMENTS.
6. SPECIAL CONSIDERATION IS GIVEN TO THE DESIGN AND INTENDED RELATIONSHIP BETWEEN ARCHITECTURE, PLANTING AREAS AND PAVING SYSTEMS. PAVEMENT JOINTING, PAVERS, STONE, FINISHES AND GRADES HAVE BEEN STRICTLY COORDINATED IN THE CONTRACT DOCUMENTS. CONSTRUCTION OF THESE SYSTEMS SHALL BE STRICTLY COORDINATED.



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2135 GARDEN

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SEAL (S TYLER NIELSEN - LA6667067)

09.05.2019

LAYOUT PLAN

DATE	ISSUE
08.15.2019	MB DRB
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NORTH

0 8' 16'

L500

PLANTING NOTES

1. PLANT MATERIAL IS TO BE HEALTHY SPECIMENS FREE FROM DISEASE OR DAMAGE, AND IS TO BE MAINTAINED IN EXCELLENT CONDITION WHILE ON THE JOBSITE. LANDSCAPE ARCHITECT SHALL INSPECT PLANT MATERIAL UPON ARRIVAL TO JOBSITE AND WILL REJECT PLANT MATERIAL THAT DOES NOT MEET THE STANDARDS DESCRIBED WITHIN THE CONTRACT DOCUMENTS.
2. THE LANDSCAPE ARCHITECT WILL PERIODICALLY INSPECT PLANT MATERIAL STOCKPILED AND/OR PLANTED ON SITE DURING THE COURSE OF CONSTRUCTION. PLANT MATERIAL NOT MEETING THE STANDARDS CONTAINED WITHIN CONTRACT DOCUMENTS SHALL BE REPLACED AT NO COST TO THE OWNER.
3. PROVIDE MATCHING SIZES AND FORMS FOR EACH PLANT OF THE SAME SPECIES UNLESS OTHERWISE INDICATED.
4. CONTRACTOR TO VERIFY ALL QUANTITIES. IN CASE OF DISCREPANCIES, GRAPHICALLY SHOWN QUANTITIES SHALL TAKE PRECEDENCE.
5. ALL MATERIALS USED SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARDS FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
6. ALL PLANT MATERIAL SHALL BE INSTALLED PLUMB AND PER THE SPECIFICATIONS CONTAINED WITHIN THE CONTRACT DOCUMENTS. ANY NECESSARY STAKING AND/OR OTHER SUPPORTS MATERIALS/METHODS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
7. THE CONTRACTOR SHALL PRUNE EXISTING AND/OR NEW TREES ONLY PER LANDSCAPE ARCHITECT DIRECTION.
8. THE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL TREES AND B&B SHRUBS FOR LANDSCAPE ARCHITECT REVIEW AND APPROVAL, PRIOR TO INSTALLATION.
9. ALL ROOT-WRAPPING MATERIALS THAT ARE NOT BIO-DEGRADABLE SHALL BE REMOVED FROM THE ROOT BALL. ROOT BALLS SHALL BE FREE OF WEEDS.
10. SPECIFIED PLANT MATERIAL SIZES SHALL BE CONSIDERED MINIMUM SIZES.
11. FINISH GRADE OF PLANTING BEDS SHALL BE ONE (1) INCH BELOW ADJACENT FLATWORK, UNLESS SPECIFIED OTHERWISE.
12. MULCH OR PLANTING BED DRESSING SHALL BE PLACED IN ALL PLANTING AREAS AS SPECIFIED. MULCH OR PLANTING BED DRESSING SHALL NOT BE PLACED WITHIN SIX (6) INCHES OF TREE TRUNKS. MULCHING SHOULD BE REPEATED ANNUALLY DURING THE AUTUMN TO A THREE (3) INCH DEPTH.
13. ALL PLANT MATERIAL SHOULD RECEIVE AN ORGANIC FERTILIZER IN LIMITED APPLICATION FOLLOWING INSTALLATION. TYPE AND APPLICATION RATE AND METHOD OF APPLICATION TO BE SPECIFIED BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT.
14. EXCESS FERTILIZER SHALL BE DISPOSED OF PROPERLY OFF-SITE. IT SHALL NOT BE DISPOSED OF IN STORM DRAINS AND/OR DRYWELLS.
15. STOCKPILED PLANT MATERIAL TO BE PLACED IN THE SHADE AND PROPERLY HAND-WATERED UNTIL PLANTED.
16. MINI-NUGGET TYPE DECORATIVE BARK MULCH WILL BE USED TO RETURN NUTRIENTS TO THE SOIL, REDUCE MAINTENANCE AND MINIMIZE EVAPORATION FOR AREAS APPROXIMATE TO THE RESIDENCE. LARGER SHREDDED BARK MULCH WILL BE USED FOR STEEP AREAS SO SLOUGHING IS LESS LIKELY TO OCCUR.
17. PRESERVE & PROTECT ALL EXISTING VEGETATION INDICATED TO REMAIN AT ALL TIMES.
18. ALL VEGETATION PROPOSED FOR OUTSIDE THE BUILDING ENVELOPE TO BE NATIVE UNLESS OTHERWISE NOTED. PLANTING THAT OCCURS OUTSIDE THE BUILDING ENVELOPE IS FOR RESTORATION PURPOSES ONLY OR IS SPECIFIC TO UTILITIES RESTORATION.
19. SIX (6) INCH PLANT MIX SHALL BE PROVIDED FOR ALL LAWN, TURF, AND NATIVE PLANTING ZONES. 18 INCH PLANT MIX SHALL BE PROVIDED FOR ALL PERENNIAL PLANTING BEDS UNLESS OTHERWISE NOTED.
20. ALL PLANT MATERIAL SHALL BE FLORIDA GRADE #1 OR BETTER AS OUTLINED IN GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I AND II OF THE LATEST EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTRE AND CONSUMER SERVICES.

PLANTING SCHEDULE

ABR.	QUANTITY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
TREES				
THE	4	TABEBUIA HETEROPHYLLA	PINK TRUMPET TREE	FG. 16 FT. OA. 4 IN. DBH. SINGLE LEADER / STANDARD FLORIDA #1
MFR	2	MYRCIANTHES FRAGRANS	SIMPSON STOPPER	100 GAL. MULTI-TRUNK 14 FT. OA. LANDSCAPE ARCHITECT TO TAG AT HACKBERRY FARM
BMO	2	BUCIDA MOLINETTI	SPINY BLACK OLIVE	45 GAL. GROW BAG, 6 FT. OA LANDSCAPE ARCHITECT TO TAG AT BOTANICS WHOLESALE
CSP	1	CHORISIA SPECIOSA	FLOSS SILK TREE	FG. 8 IN. DBH. 18 FT. HT. MIN. PROVIDE IMAGES FOR LANDSCAPE ARCHITECT'S APPROVAL
COL	4	CHRYSOPHYLLUM OLIVIFORMIS	SATIN LEAF	45 GAL. 12 FT. OA. 2 IN. DBH MIN.
CER	4	CONOCARPUS ERECTUS	GREEN BUTTONWOOD	45 GAL. 12 FT. OA. 2 IN. DBH MIN.
PRA	4	PIMENTA RACEMOSA	BAY RUM	45 GAL. 12 FT. OA. 2 IN. DBH MIN.
CDI	4	COCCOLOBA DIVERSIFOLIA	PIGEON PLUM	45 GAL. 12 FT. OA. 2 IN. DBH MIN.
SGL	4	SIMAROUBA GLAUCA	PARADISE TREE	45 GAL. 12 FT. OA. 2 IN. DBH MIN.
PALMS				
CNU1	3	COCOS NUCIFERA 'GREEN MALAYAN'	COCONUT PALM	FG. CHARACTER CURVE 9 FT. CT. PROVIDE IMAGES FOR LANDSCAPE ARCHITECT APPROVAL
CNU2	2	COCOS NUCIFERA 'GREEN MALAYAN'	COCONUT PALM	FG. CHARACTER CURVE 12 FT. CT. PROVIDE IMAGES FOR LANDSCAPE ARCHITECT APPROVAL
CNU3	3	COCOS NUCIFERA 'GREEN MALAYAN'	COCONUT PALM	FG. CHARACTER CURVE 15 FT. CT. PROVIDE IMAGES FOR LANDSCAPE ARCHITECT APPROVAL
PCO	11	PINANGA CORONATA	IVORY CANE PALM	45 GAL. 10 FT. OA.
REX	22	RHAPIS EXCELSA	LADY PALM	15 GAL. 4 FT. OA.
RRE	12	ROYSTONEA REGIA	ROYAL PALM	FG. 12 FT. GW.
SLI	2	SATAKENTIA LIUKIUENSIS	SATAKENTIA PALM	FG. 9 FT. GW.
LARGE SHRUBS				
CZ	30	CALYPTRANTHES ZUZYGIUM	MYRTLE OF THE RIVER	25 GAL. 6 FT. OA. BUSH FORM FULL
SHRUBS				
CZ	90	CALYPTRANTHES ZUZYGIUM	MYRTLE OF THE RIVER	15 GAL. 4 FT. OA. BUSH FORM FULL
WC	55	PSYCHOTRIA NERVOSA	WILD COFFEE	7 GAL. 24 IN. X 24 IN.
LC	20	AMPHITECNA LATIFOLIA	BLACK CALABASH	15 GAL. 4 FT. HT.
PP	68	POGONATHERUM PANICEUM	DWARF BAMBOO GRASS	7 GAL. 36 IN. X 36 IN.
PG	4	PHILODENDRON GIGANTEUM	SAME	15 GAL. 36 IN. X 36 IN.
XX	86	PHILODENDRON XANADU	SAME	7 GAL. 24 IN. X 24 IN.
SJ	64	STRELITZIS PARVIFOLIA JUNCEA	LEAFLESS BIRD OF PARADISE	7 GAL. 36 IN. HT.
GROUNDCOVERS				
LM	792	LIRIOPE MUSCARI	SAME	3 GAL. 18" O.C.
AR	204	AJUGA REPTANS 'CHOCOLATE CHIP'	AJUGA	1 GAL. 12" O.C.
EL	500	ERNODEA LITTORALIS	GOLDEN CREEPER	3 GAL. 18" O.C.
MISC.				
ALL SOD AREAS TO BE REPLACED WITH ZOYSIA 'ZEON'				
LANDSCAPE ARCHITECT TO HAVE $2000 WHOLESALE ACCENT PLANT ALLOWANCE				

CITY OF MIAMI BEACH LANDSCAPE LEGEND

CITY OF MIAMI BEACH

LANDSCAPE LEGEND

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS

Zoning District: RS-3 Lot Area: 23,361 Acres: .53

	REQUIRED/ ALLOWED	PROVIDED
OPEN SPACE		
A. Square feet of required Open Space as indicated on site plan: Lot Area = 23,361 s.f. x .09 % = 2,102 s.f.	2,102	3,973
B. Square foot of parking lot open space required as indicated on site plan: Number of parking spaces NA x 10 s.f. parking space =	NA	NA
C. Total square feet of landscaped open space required: A+B=	2,102	3,973
LAWN AREA CALCULATION		
A. Square feet of landscaped open space required	2,102	3,973
B. Maximum lawn area (sod) permitted= 50 % x 3,973 s.f.	1,986	1,900
TREES		
A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements: 23 trees x NA net lot acres - number of existing trees=	23	27
B. % Natives required: Number of trees provided x 30% =	7	20
C. % low maintenance / drought and salt tolerant required: Number of trees provided x 50%=	12	20
D. Street Trees (maximum average spacing of 20' o.c.) NA linear feet along street divided by 20'=	NA	NA
E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): 38 linear feet along street divided by 20'=	2	2
SHRUBS		
A. Number of shrubs required: Sum of lot and street trees required x 12=	300	304
B. % Native shrubs required: Number of shrubs provided x 50%=	150	160
LARGE SHRUBS OR SMALL TREES		
A. Number of large shrubs or small trees required: Number of required shrubs x 10%=	30	30
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=	15	30

PLANTING REFERENCE IMAGERY


PINK TABEBUIA


SIMPSON STOPPER


SPINY BLACK OLIVE


SATAKENTIA


GREEN BUTTONWOOD


WEST INDIAN HOLLY


DWARF BAMBOO GRASS


WILD COFFEE


IVORY CANE PALM


LADY PALM

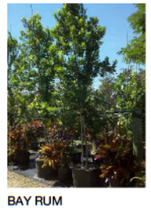

GIGANTEUM


COCONUT PALM


ROYAL PALM


FLOSS SILK


BUTTONWOOD


BAY RUM


SATIN LEAF


MYRTLE OF THE RIVER


BLACK CALABASH


PIGEON PLUM


PARADISE TREE


XANADU


LEAFLESS BIRD


AJUGA


GOLDEN CREEPER


LIRIOPE

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2135 GARDEN

2136 LAKE AVENUE | MIAMI BEACH, FLORIDA 33140

SEAL (S TYLER NIELSEN - LA6667067)

09.05.2019

PLANTING SCHEDULE & NOTES

DATE	ISSUE
08.15.2019	MB DRB
09.05.2019	REVISION 01

L700

CITY OF MIAMI BEACH LANDSCAPE LEGEND

CITY OF MIAMI BEACH
LANDSCAPE LEGEND
INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS
Zoning District: RS-3 Lot Area: 23,361 Acres: .53

	REQUIRED/ ALLOWED	PROVIDED
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B. ½ Natives required: Number of trees provided x 30%=	7	20
C. ½ Low maintenance / drought and salt tolerant required: Number of trees provided x 50%=	12	20
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E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): 38 linear feet along street divided by 20'=	2	2
SHRUBS		
A. Number of shrubs required: Sum of lot and street trees required x 12=	300	304
B. ½ Native shrubs required: Number of shrubs provided x 50%=	150	160
LARGE SHRUBS OR SMALL TREES		
A. Number of large shrubs or small trees required: Number of required shrubs x 10%=	30	30
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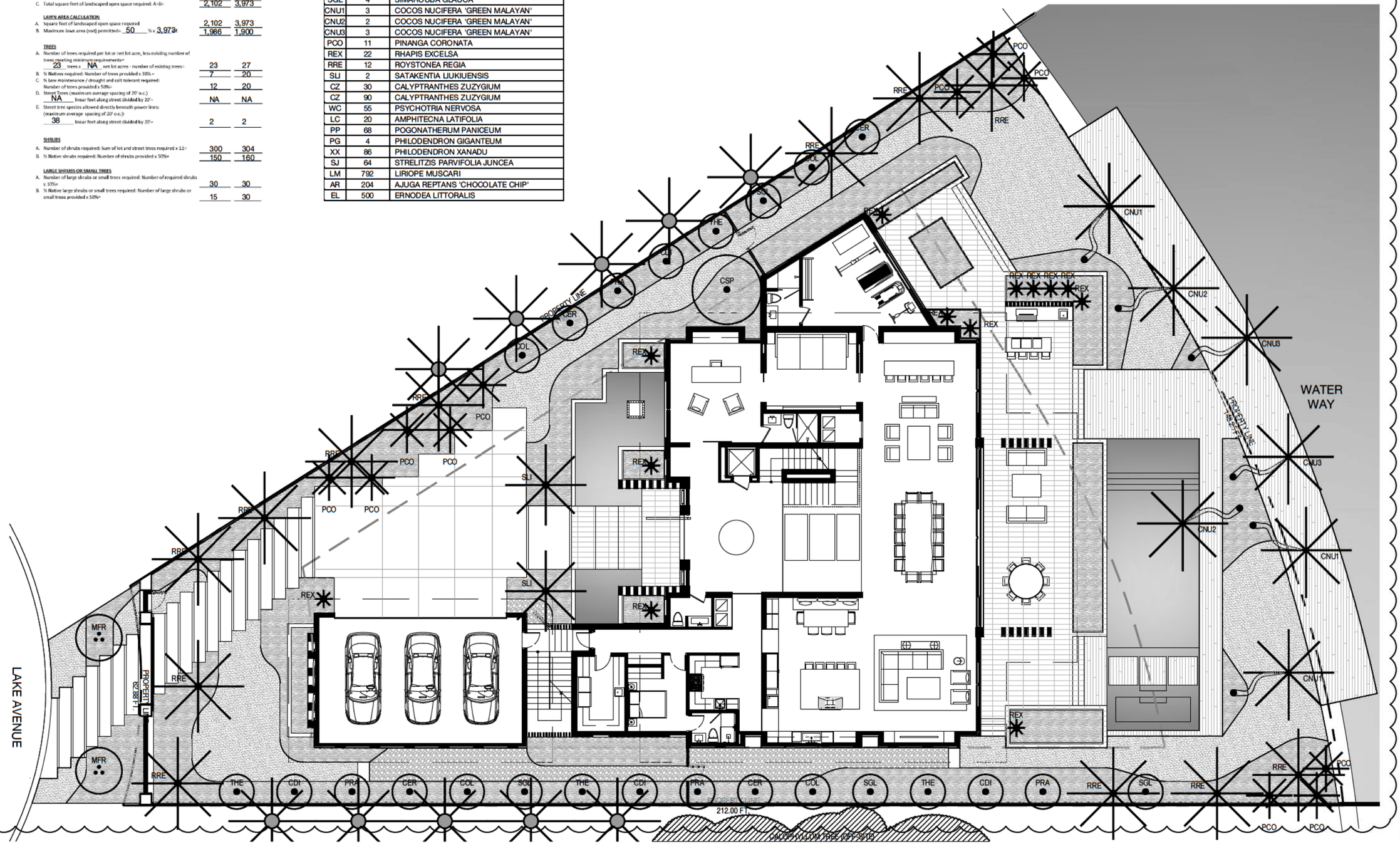
AR	204	AJUGA REPTANS 'CHOCOLATE CHIP'
EL	500	ERNODEA LITTORALIS

PLANTING LEGEND

EXISTING PALM · EXISTING TREE · PROPOSED PALM · PROPOSED TREE



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2135 GARDEN

2135 LAKE AVENUE | MIAMI BEACH, FLORIDA 33140

SEAL (S TYLER NIELSEN - LA6667067)

09.05.2019

TREE & PALM PLANTING PLAN

DATE	ISSUE
08.15.2019	MB DRB
09.05.2019	REVISION 01

NORTH
0 8' 16'

L701

CITY OF MIAMI BEACH LANDSCAPE LEGEND

CITY OF MIAMI BEACH

LANDSCAPE LEGEND

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS

Zoning District: RS-3 Lot Area: 23,361 Acres: .53

	REQUIRED/ ALLOWED	PROVIDED
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A. Square feet of landscaped open space required	2,102	3,973
B. Maximum lawn area (sod) permitted: 50 % = 3,973 s.f.	1,986	1,900
TREES		
A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements= 5 trees x NA net lot acres - number of existing trees=	5	5
B. % Natives required: Number of trees provided x 30% =	2	5
C. % low maintenance / drought and salt tolerant required: Number of trees provided x 50%=	3	5
D. Street Trees (maximum average spacing of 20' o.c.) NA linear feet along street divided by 20'=	NA	NA
E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): 38 linear feet along street divided by 20'=	2	2
SHRUBS		
A. Number of shrubs required: Sum of lot and street trees required x 12=	84	224
B. % Native shrubs required: Number of shrubs provided x 50%=	82	136
LARGE SHRUBS OR SMALL TREES		
A. Number of large shrubs or small trees required: Number of required shrubs x 10%=	9	9
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=	5	9

PLANTING SCHEDULE

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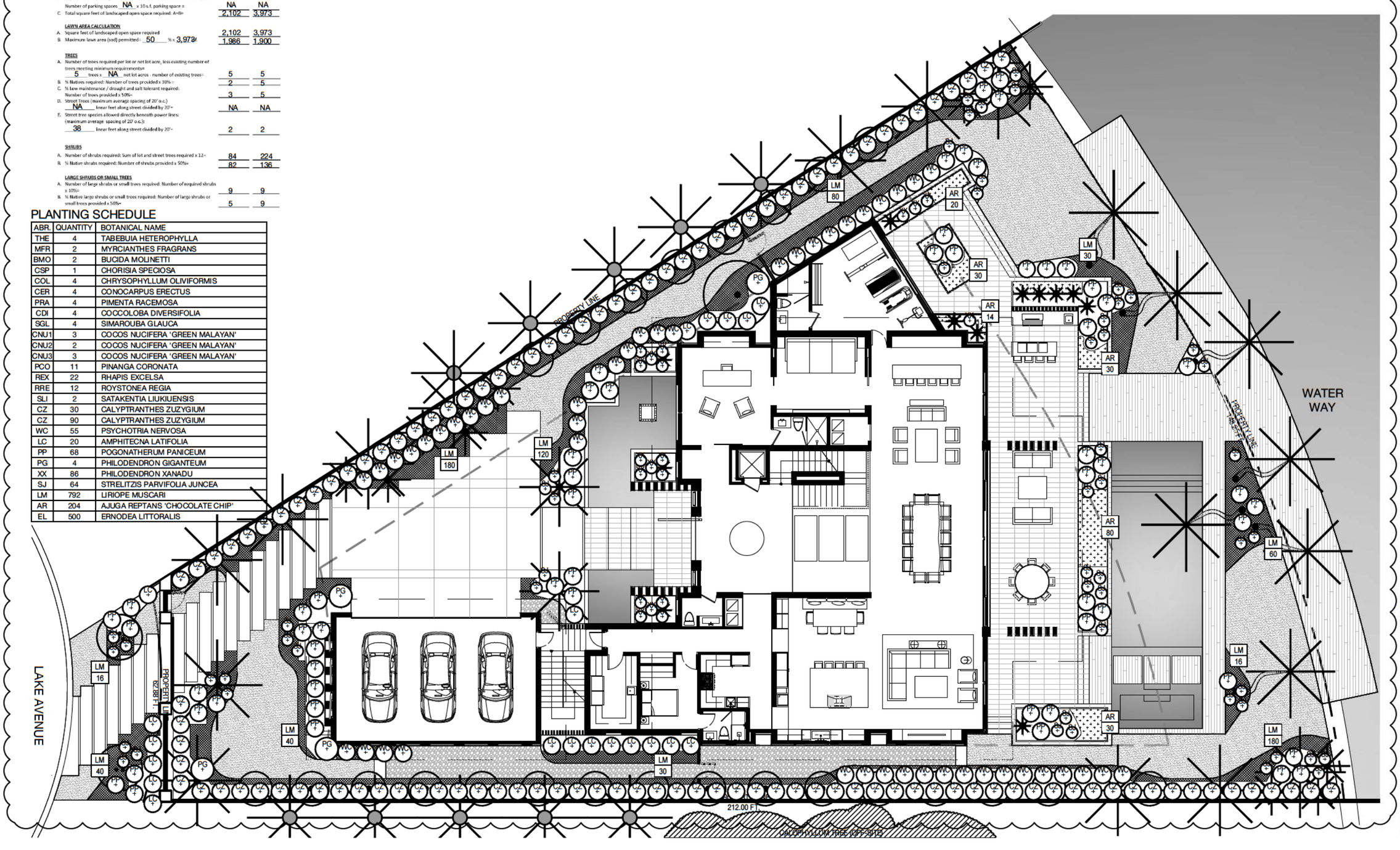
EL	500	ERNODEA LITTORALIS

PLANTING LEGEND

EXISTING PALM · EXISTING TREE · PROPOSED PALM · PROPOSED TREE · PROPOSED SHRUB · PROPOSED VINE · PROPOSED GROUNDCOVER (TYP #)



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SEAL (S TYLER NIELSEN - LA667067)

09.05.2019

UNDERSTORY PLANTING PLAN

DATE	ISSUE
08.15.2019	MB DRB
09.05.2019	REVISION 01

NORTH

0 8' 16'

L702

CITY OF MIAMI BEACH LANDSCAPE LEGEND

CITY OF MIAMI BEACH

LANDSCAPE LEGEND

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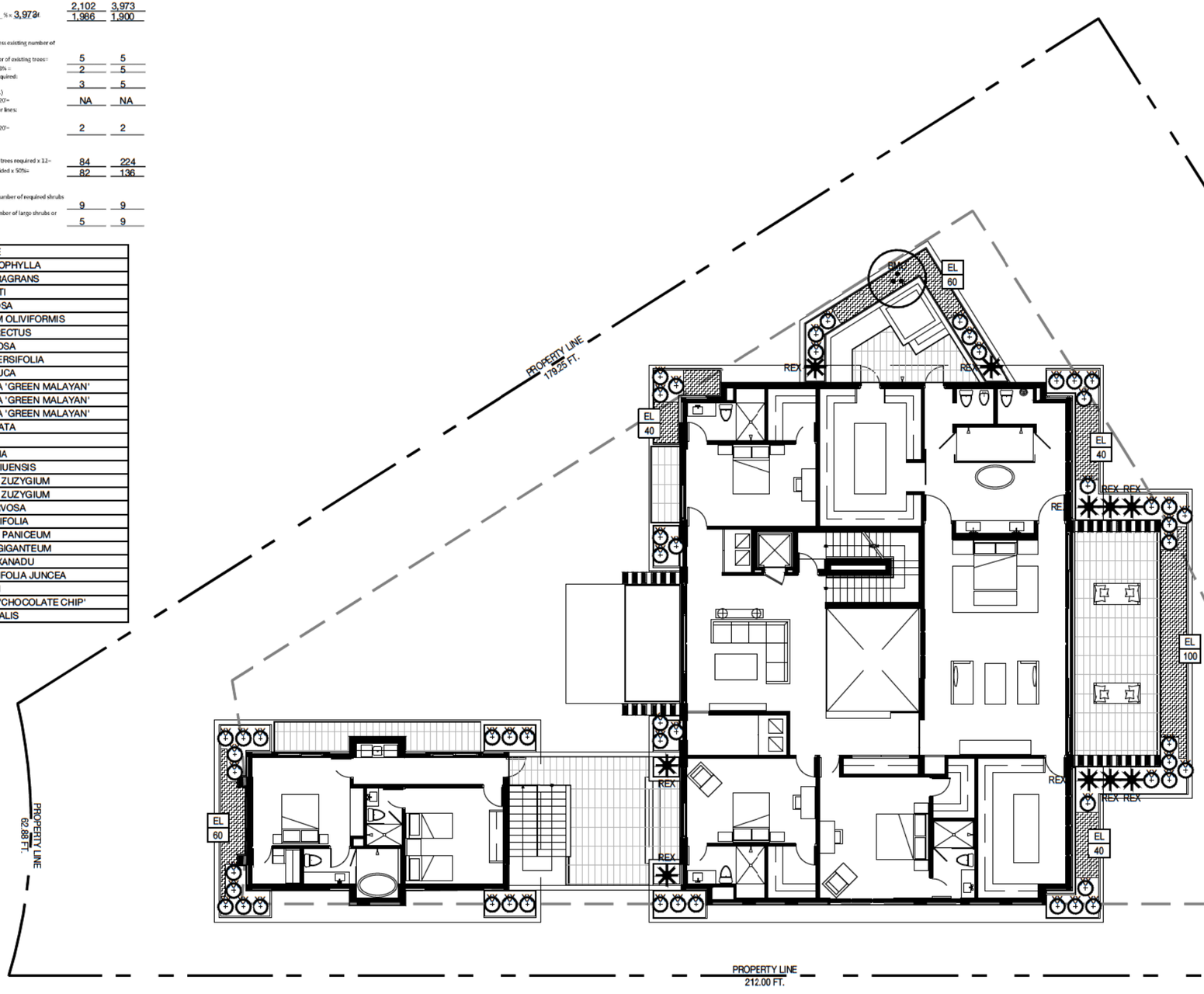
PLANTING LEGEND

EXISTING PALM | EXISTING TREE | PROPOSED PALM | PROPOSED TREE | PROPOSED SHRUB | PROPOSED VINE | PROPOSED GROUNDCOVER (TYP #)



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2135 GARDEN

2135 LAKE AVENUE | MIAMI BEACH, FLORIDA 33140

SEAL (S TYLER NIELSEN - LA6667067)

09.05.2019

SECOND LEVEL PLANTING PLAN

DATE	ISSUE
08.15.2019	MB DRB
09.05.2019	REVISION 01

NORTH

0 8' 16'

L703

CITY OF MIAMI BEACH LANDSCAPE LEGEND

CITY OF MIAMI BEACH

LANDSCAPE LEGEND

INFORMATION REQUIRED TO BE PERMANENTLY AFFIXED TO PLANS

Zoning District: RS-3 Lot Area: 23,361 Acres: .53

	REQUIRED/ ALLOWED	PROVIDED
OPEN SPACE		
A. Square feet of required Open Space as indicated on site plan: Lot Area = 23,361 s.f. x 09 % = 2,102 s.f.	2,102	3,973
B. Square feet of parking lot open space required as indicated on site plan: Number of parking spaces NA x 10 s.f. parking space =	NA	NA
C. Total square feet of landscaped open space required: A+B=	2,102	3,973
LAWN AREA CALCULATION		
A. Square feet of landscaped open space required	2,102	3,973
B. Maximum lawn area (sod) permitted: 50 % = 3,973 s.f.	1,986	1,900
TREES		
A. Number of trees required per lot or net lot acre, less existing number of trees meeting minimum requirements= 5 trees x NA net lot acres - number of existing trees=	5	5
B. ½ Natives required: Number of trees provided x 30% =	2	5
C. ½ low maintenance / drought and salt tolerant required: Number of trees provided x 50%=	3	5
D. Street Trees (maximum average spacing of 20' o.c.) NA linear feet along street divided by 20'=	NA	NA
E. Street tree species allowed directly beneath power lines: (maximum average spacing of 20' o.c.): 38 linear feet along street divided by 20'=	2	2
SHRUBS		
A. Number of shrubs required: Sum of lot and street trees required x 12=	84	224
B. ½ Native shrubs required: Number of shrubs provided x 50%=	82	136
LARGE SHRUBS OR SMALL TREES		
A. Number of large shrubs or small trees required: Number of required shrubs x 10%=	9	9
B. % Native large shrubs or small trees required: Number of large shrubs or small trees provided x 50%=	5	9

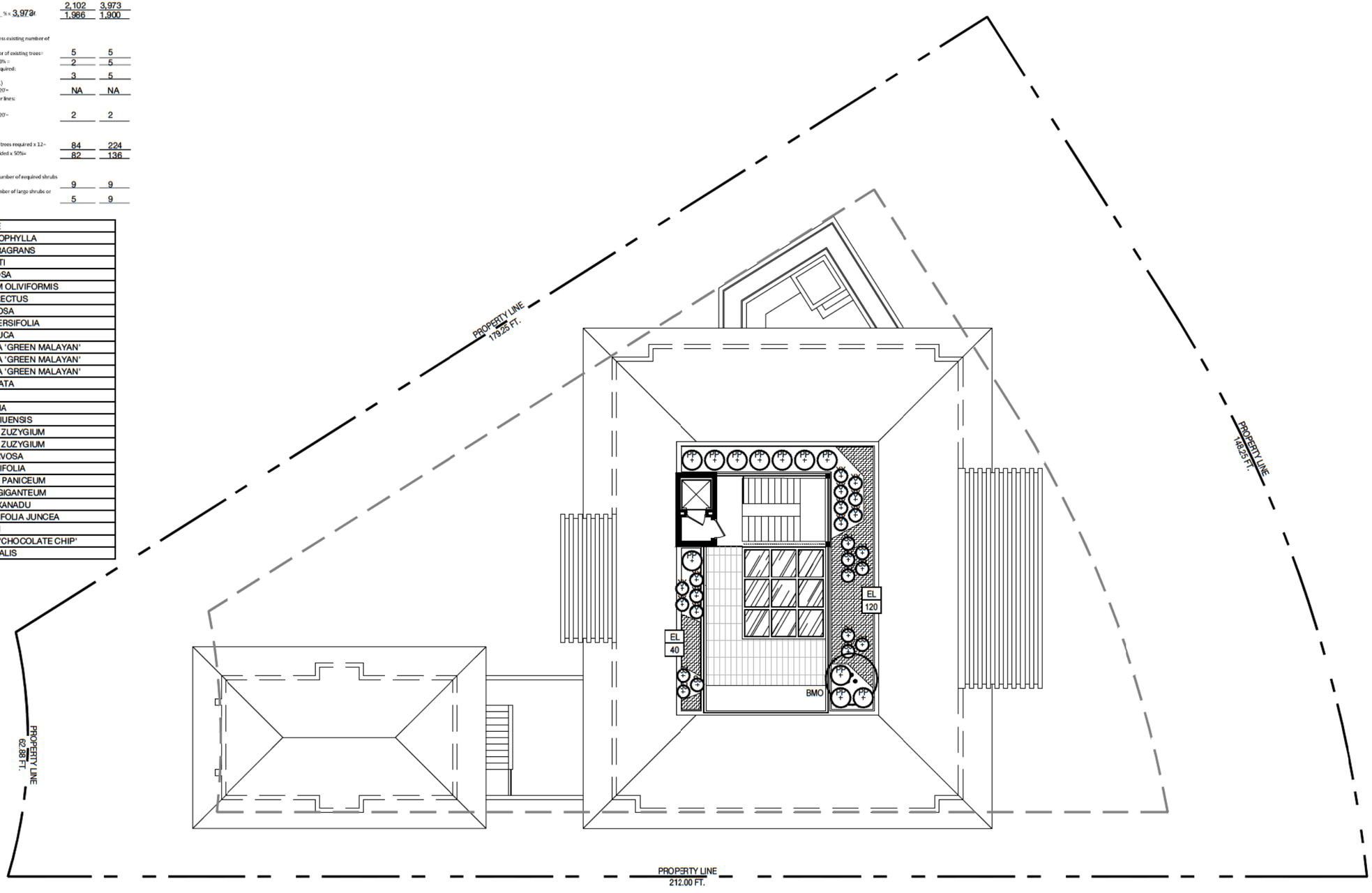
PLANTING SCHEDULE

ABR.	QUANTITY	BOTANICAL NAME
THE	4	TABEBUIA HETEROPHYLLA
MFR	2	MYRCIANTHES FRAGRANS
BMO	2	BUCIDA MOLINETTI
CSP	1	CHORISIA SPECIOSA
COL	4	CHRYSOPHYLLUM OLIVIFORMIS
CER	4	CONOCARPUS ERECTUS
PRA	4	PIMENTA RACEMOSA
CDI	4	COCCOLOBA DIVERSIFOLIA
SGL	4	SIMAROUBA GLAUCA
CNU1	3	COCOS NUCIFERA 'GREEN MALAYAN'
CNU2	2	COCOS NUCIFERA 'GREEN MALAYAN'
CNU3	3	COCOS NUCIFERA 'GREEN MALAYAN'
PCO	11	PINANGA CORONATA
REX	22	RHAPIS EXCELSA
RRE	12	ROYSTONEA REGIA
SLI	2	SATAKENTIA LIUKIUENSIS
CZ	30	CALYPTRANTHES ZUZYGIUM
CZ	90	CALYPTRANTHES ZUZYGIUM
WC	55	PSYCHOTRIA NERVOSA
LC	20	AMPHITECNA LATIFOLIA
PP	68	POGONATHERUM PANICEUM
PG	4	PHILODENDRON GIGANTEUM
XX	86	PHILODENDRON XANADU
SJ	64	STRELITZIS PARVIFOLIA JUNCEA
LM	792	LIRIOPE MUSCARI
AR	204	AJUGA REPTANS 'CHOCOLATE CHIP'
EL	500	ERNODEA LITTORALIS

PLANTING LEGEND

1

EXISTING PALM | EXISTING TREE | PROPOSED PALM | PROPOSED TREE | PROPOSED SHRUB | PROPOSED VINE | PROPOSED GROUNDCOVER (TYP #)



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ROOF LEVEL PLANTING PLAN

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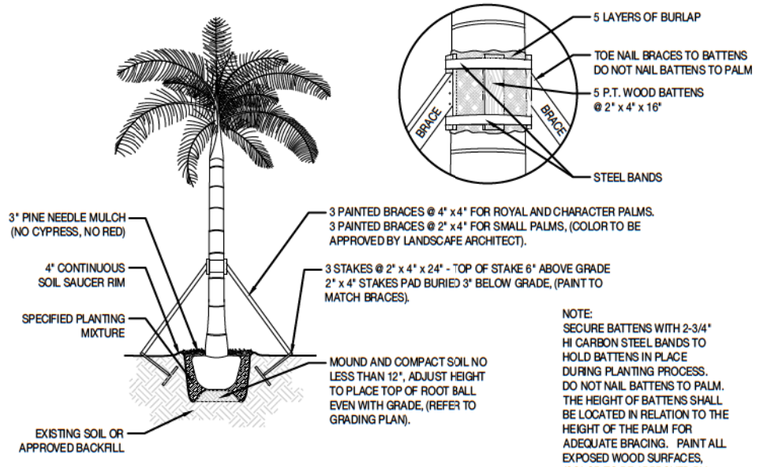
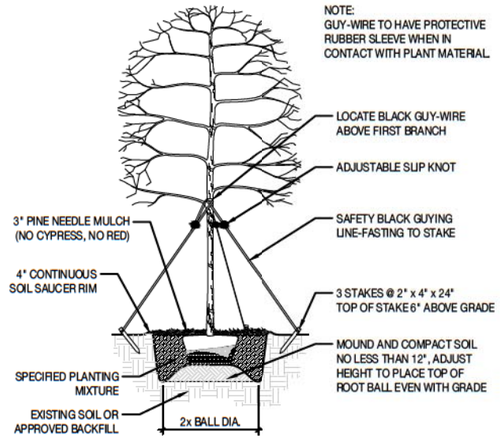
NORTH

0 8' 16'

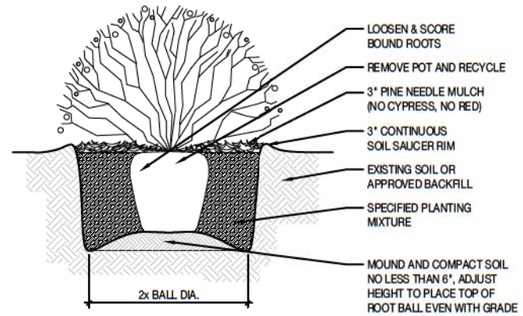
L704



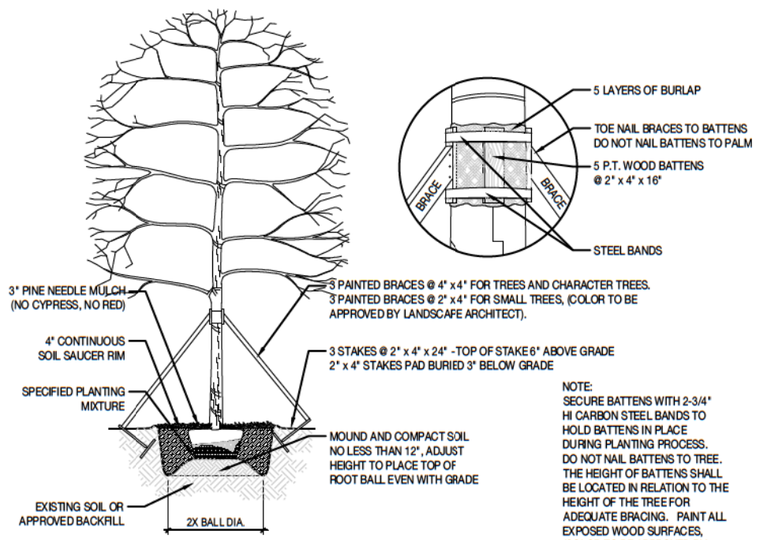
1 PALM PLANTING AND STAKING DETAIL
SCALE: 3/32" = 1'- 0"



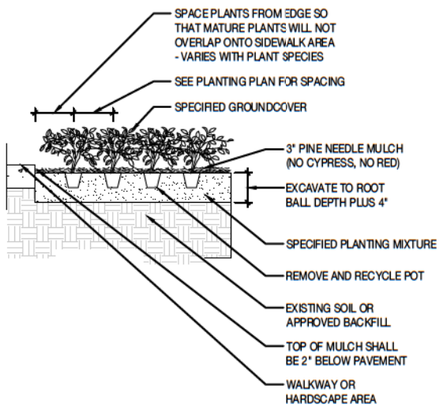
2 UNDERSTORY TREE PLANTING AND STAKING DETAIL
SCALE: 3/32" = 1'- 0"



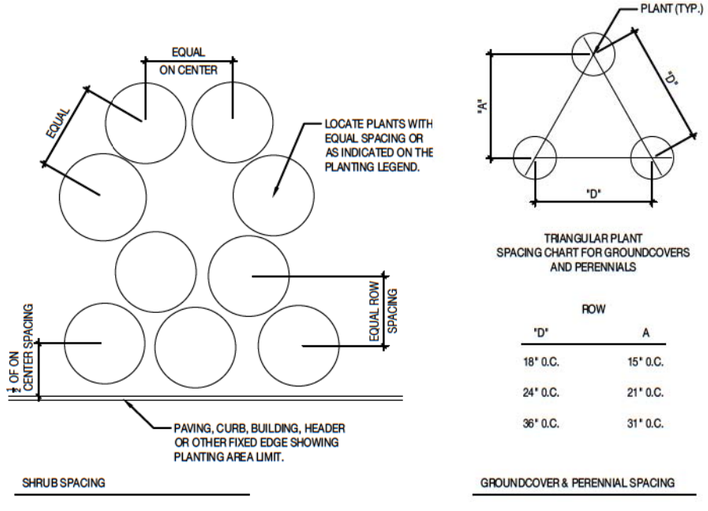
3 SHRUB PLANTING DETAIL
SCALE: 3/32" = 1'- 0"



4 TREE PLANTING AND STAKING DETAIL
SCALE: 3/32" = 1'- 0"



5 GROUND COVER PLANTING DETAIL
SCALE: 3/32" = 1'- 0"



6 PLANT & SHRUB SPACING DETAIL
SCALE: 3/32" = 1'- 0"

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PLANTING DETAILS

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SCALE AS NOTED:

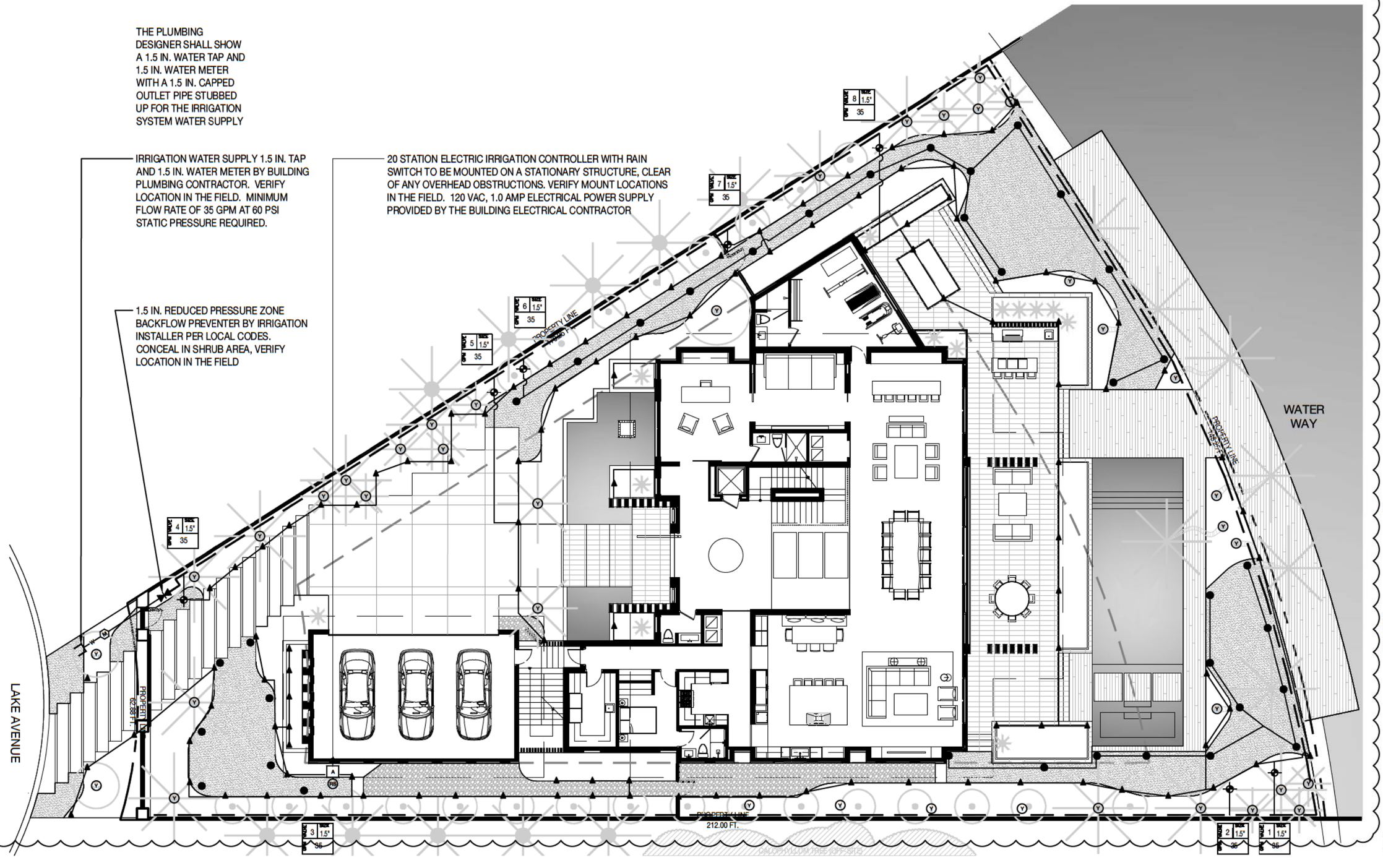
L705

THE PLUMBING DESIGNER SHALL SHOW A 1.5 IN. WATER TAP AND 1.5 IN. WATER METER WITH A 1.5 IN. CAPPED OUTLET PIPE STUBBED UP FOR THE IRRIGATION SYSTEM WATER SUPPLY

IRRIGATION WATER SUPPLY 1.5 IN. TAP AND 1.5 IN. WATER METER BY BUILDING PLUMBING CONTRACTOR. VERIFY LOCATION IN THE FIELD. MINIMUM FLOW RATE OF 35 GPM AT 60 PSI STATIC PRESSURE REQUIRED.

1.5 IN. REDUCED PRESSURE ZONE BACKFLOW PREVENTER BY IRRIGATION INSTALLER PER LOCAL CODES. CONCEAL IN SHRUB AREA, VERIFY LOCATION IN THE FIELD

20 STATION ELECTRIC IRRIGATION CONTROLLER WITH RAIN SWITCH TO BE MOUNTED ON A STATIONARY STRUCTURE, CLEAR OF ANY OVERHEAD OBSTRUCTIONS. VERIFY MOUNT LOCATIONS IN THE FIELD. 120 VAC, 1.0 AMP ELECTRICAL POWER SUPPLY PROVIDED BY THE BUILDING ELECTRICAL CONTRACTOR



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IRRIGATION PLAN

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NORTH

0 8' 16'

L801

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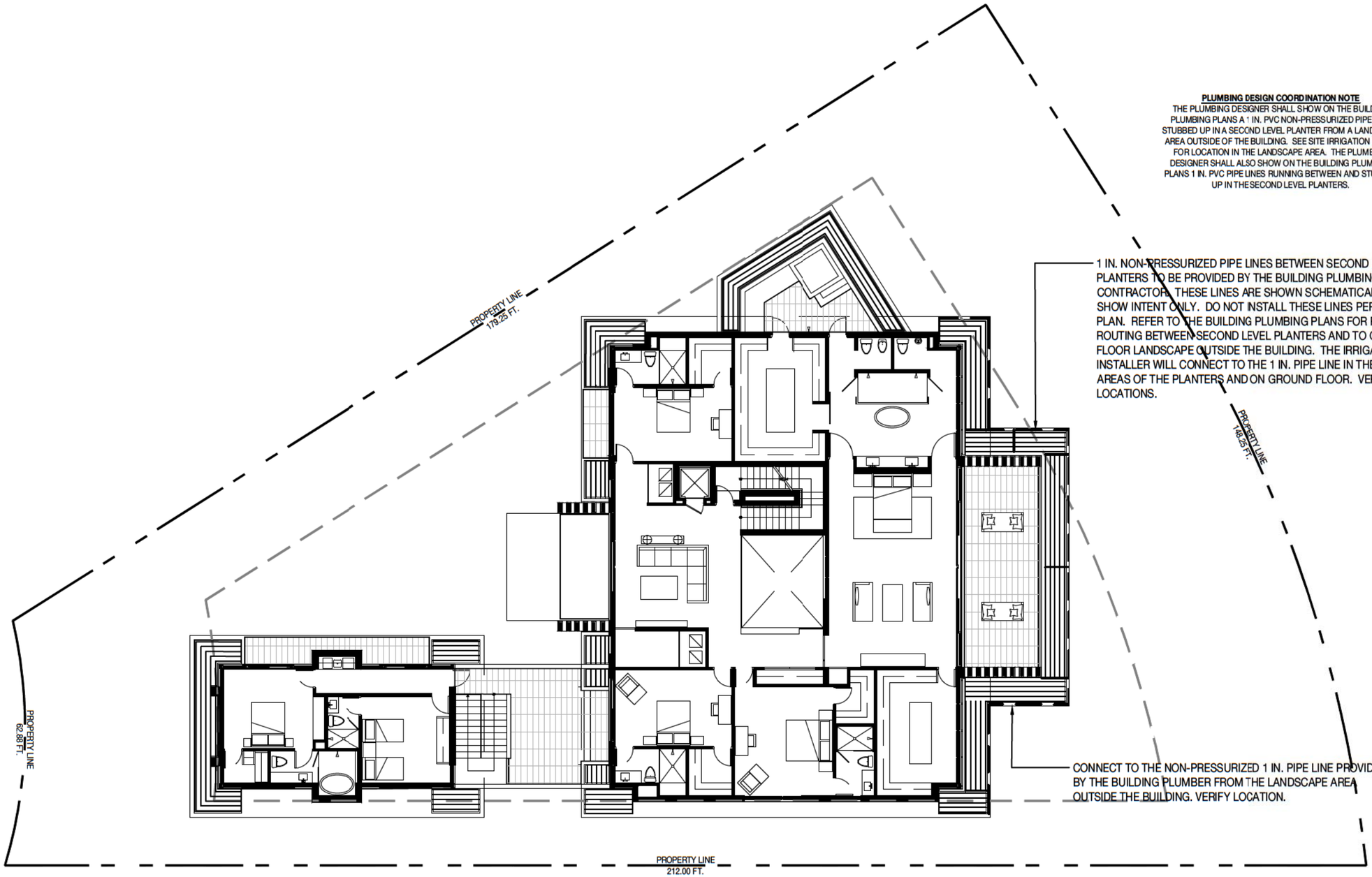
PLUMBING DESIGN COORDINATION NOTE
THE PLUMBING DESIGNER SHALL SHOW ON THE BUILDING PLUMBING PLANS A 1 IN. PVC NON-PRESSURIZED PIPE LINE STUBBED UP IN A SECOND LEVEL PLANTER FROM A LANDSCAPE AREA OUTSIDE OF THE BUILDING. SEE SITE IRRIGATION PLANS FOR LOCATION IN THE LANDSCAPE AREA. THE PLUMBING DESIGNER SHALL ALSO SHOW ON THE BUILDING PLUMBING PLANS 1 IN. PVC PIPE LINES RUNNING BETWEEN AND STUBBED UP IN THE SECOND LEVEL PLANTERS.



1 IN. NON-PRESSURIZED PIPE LINES BETWEEN SECOND LEVEL PLANTERS TO BE PROVIDED BY THE BUILDING PLUMBING CONTRACTOR. THESE LINES ARE SHOWN SCHEMATICALLY TO SHOW INTENT ONLY. DO NOT INSTALL THESE LINES PER THIS PLAN. REFER TO THE BUILDING PLUMBING PLANS FOR PIPE LINE ROUTING BETWEEN SECOND LEVEL PLANTERS AND TO GROUND FLOOR LANDSCAPE OUTSIDE THE BUILDING. THE IRRIGATION INSTALLER WILL CONNECT TO THE 1 IN. PIPE LINE IN THE SOIL AREAS OF THE PLANTERS AND ON GROUND FLOOR. VERIFY LOCATIONS.

CONNECT TO THE NON-PRESSURIZED 1 IN. PIPE LINE PROVIDED BY THE BUILDING PLUMBER FROM THE LANDSCAPE AREA OUTSIDE THE BUILDING. VERIFY LOCATION.

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SECOND LEVEL IRRIGATION PLAN

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NORTH
0 8' 16'

L802

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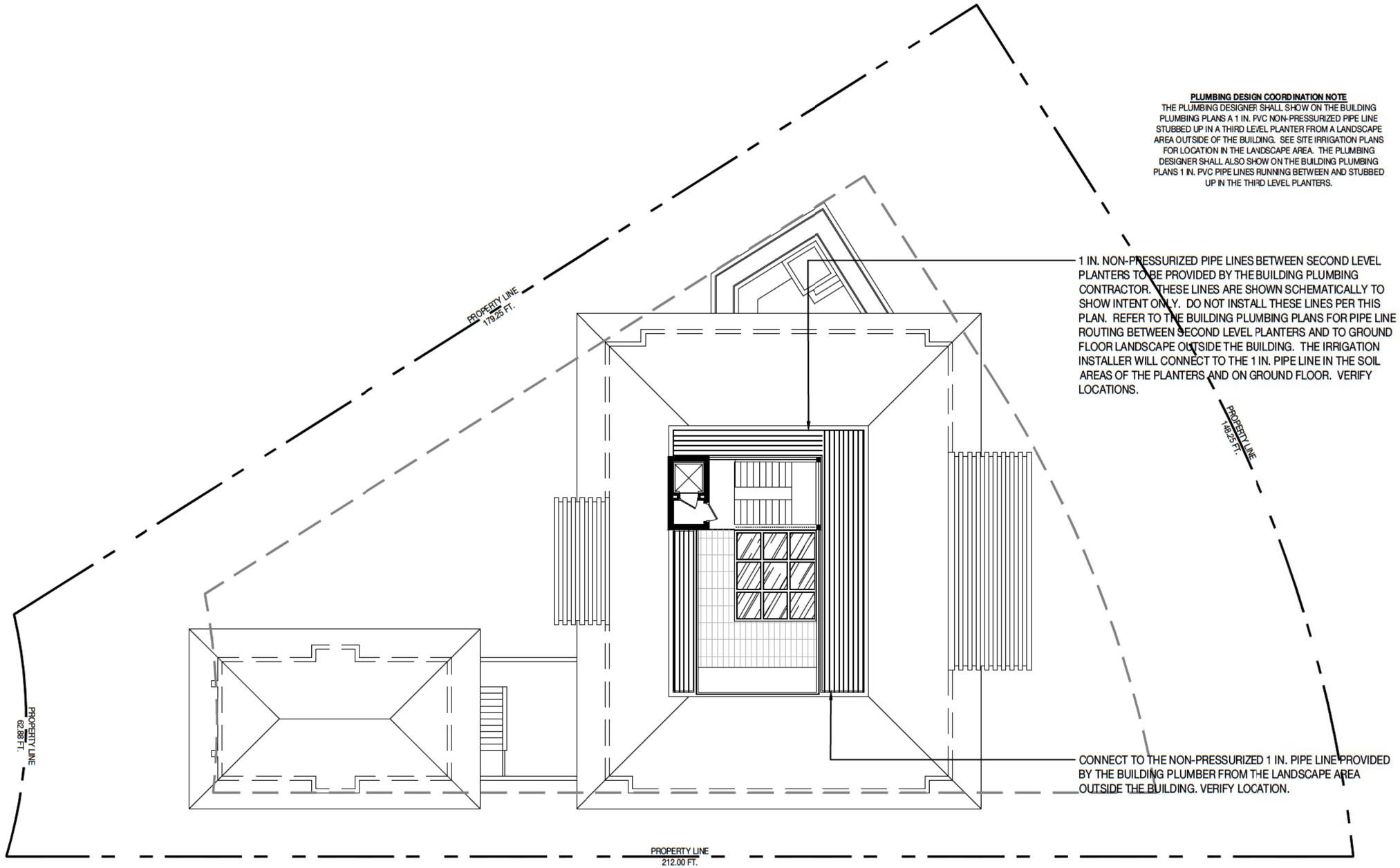
PLUMBING DESIGN COORDINATION NOTE
THE PLUMBING DESIGNER SHALL SHOW ON THE BUILDING PLUMBING PLANS A 1 IN. PVC NON-PRESSURIZED PIPE LINE STUBBED UP IN A THIRD LEVEL PLANTER FROM A LANDSCAPE AREA OUTSIDE OF THE BUILDING. SEE SITE IRRIGATION PLANS FOR LOCATION IN THE LANDSCAPE AREA. THE PLUMBING DESIGNER SHALL ALSO SHOW ON THE BUILDING PLUMBING PLANS 1 IN. PVC PIPE LINES RUNNING BETWEEN AND STUBBED UP IN THE THIRD LEVEL PLANTERS.



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ROOF LEVEL IRRIGATION PLAN

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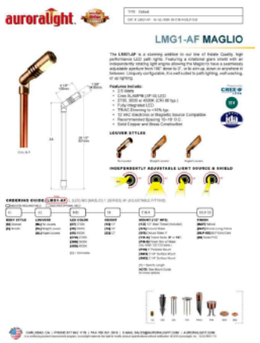
NORTH
0 8' 16'

L803

EXTERIOR LIGHTING NOTES

1. THE EXTERIOR LIGHTING PLAN ILLUSTRATES FIXTURE LOCATION AND TYPE SOLELY. ALL ELECTRICAL LOADS, WIRING, AND CALCULATIONS ARE BY OTHERS.
2. CONTRACTOR TO COORDINATE WITH CLIENT AND LANDSCAPE ARCHITECT CONTROL SYSTEM FOR EXTERIOR LIGHTING.
3. THE CONTRACTOR TO PROVIDE SLEEVES AND CONDUIT AS NEEDED FOR ALL EXTERIOR LIGHTING FIXTURES..
4. THE CONTRACTOR IS TO STAKE ALL EXTERIOR LIGHTING FIXTURES FOR LANDSCAPE ARCHITECT REVIEW.
5. ALL EXTERIOR FIXTURES TO BE INSTALLED TO PREVENT GLARE AND UNWANTED DIRECTED LIGHT. CONTRACTOR TO ENSURE ALL FIXTURES DO NOT DIRECT LIGHT ONTO ADJACENT PROPERTIES. ALL FIXTURES TO BE PROVIDED WITH SHROUD, REFER TO CUT SHEETS & SCHEDULE OF SHROUD DETAILS.
6. ALL FIXTURES EAST OF THE COASTAL CONSTRUCTION CONTROL LINE TO BE PLACED ON SEPARATE ZONE. THIS ZONE IS TO BE COMPLETELY TURNED OFF DURING TURTLE SEASON (MAY 1st - OCTOBER 31st).
7. THE CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT TWO WEEKS IN ADVANCE OF SCHEDULED EXTERIOR LIGHT INSTALLATION. UPON COMPLETION OF THE EXTERIOR LIGHT INSTALLATION, CONTRACTOR TO PROVIDE NIGHTTIME WALK THROUGH WITH LANDSCAPE ARCHITECT FOR FINAL REVIEW.
8. LANDSCAPE LIGHTING FIXTURES SHALL BE UNOBTRUSIVE OR HIDDEN FROM VIEW.



EXTERIOR LIGHTING SCHEDULE

SYMBOL	QUANTITY	TYPE	MANUFACTURER	SPECIFICATION NUMBER	LAMP	AMPS	LUMENS	AMPS TOTAL
○	21	PATH	AURORA (MAGLIO)	30 - TR/12 - F - BLP	LED	.05 AMPS	360	.35 AMPS TOTAL
▽	17	UP-LIGHT	AURORA (TELLURIDE)	BR - W - 30 - 7X14 - BLP XD	LED	.041 AMPS	300	0.697 AMPS TOTAL
□	2	TRANSFORMER	KICHLER	300W	NA	CONFIRM LOCATION IN THE FIELD WITH L.A.		

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L900