SCOPE OF WORK

THE FOLLOWING DRAWINGS ILLUSTRATE THE PROPOSED SCOPE OF WORK FOR **1236 GEORGE BUSH BLVD.** TO BE APPROVED BY THE CITY OF DELRAY BEACH:

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

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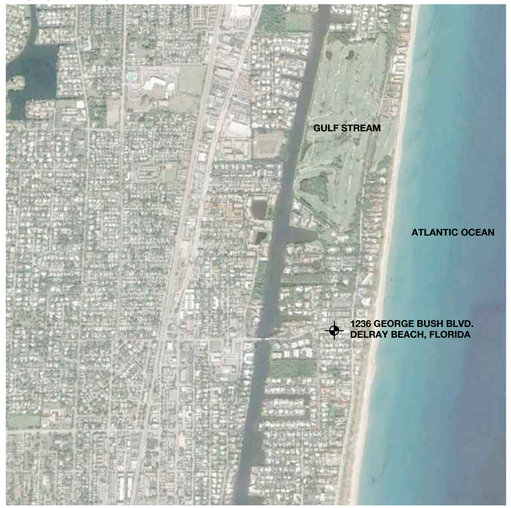
LOCATION MAP



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1236 G.B. BLVD GARDEN

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SEAL (S TYLER NIELSEN - LA6667067)

REGISTERED LANDSCAPE ARCHITECT
NIELSEN, TYLER ANDREW
RLA 6667067
STATE OF FLORIDA

04.11.2022

COVER PAGE

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09.15.2021	SPRAB SUBMITTAL
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LCVR

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 REQUIREMENTS.
13. RESEED AS INDICATED IN SEEDING NOTES.

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GENERAL SITE NOTES

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01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
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L001

GRADING NOTES

1. VERIFY EXISTING ELEVATIONS PRIOR TO STARTING WORK. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. EXISTING AND PROPOSED GRADES ARE BASED ON SURVEY DOCUMENTS PREPARED BY SURVEYOR.
2. CONTRACTOR SHALL VERIFY THE PLACEMENT OF FLATWORK PENETRATIONS TO ENSURE COORDINATION OF SURFACE FIXTURES, SUCH AS DRAINS AND LIGHTS. NOTIFY GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT OF DISCREPANCIES PRIOR TO CONSTRUCTION OF FLATWORK.
3. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS TO VERIFY FINISHED FLOOR ELEVATIONS. THE GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED IF THERE ARE ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL REFER TO THE CIVIL ENGINEERING DRAWINGS TO VERIFY UTILITY AND OTHER DRAIN LOCATIONS. THE GENERAL CONTRACTOR AND LANDSCAPE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
5. PROPOSED ELEVATIONS INDICATED ON DRAWINGS ARE FINISHED GRADE ELEVATIONS. THE CONTRACTOR SHALL DIRECT ROUGH GRADE WORK TO ALLOW FOR SUFFICIENT TOPSOIL AND OTHER FINISHED CONDITIONS AS DESCRIBED IN THE CONTRACT DOCUMENTS.
6. ALL FINISHED GRADES SHALL MEET AND BLEND SMOOTHLY WITH EXISTING GRADES AT THE PROJECT LIMIT.
7. ALL FINISHED GRADES SHALL BE WITHOUT LOW SPOTS OR POCKETS. CONTRACTOR SHALL SET FLOW LINES ACCURATELY AND PROVIDE A MINIMUM OF TWO (2) PERCENT OR MAXIMUM OF FIFTY (50) PERCENT, UNLESS OTHERWISE NOTED.
8. ALL FINISHED GRADES SHALL PRESENT SMOOTH TRANSITIONS BETWEEN TOES AND TOPS OF SLOPES.
9. THE MAXIMUM SLOPE OF SOD TO BE 3:1 IN AREAS DESIGNATED AS " LAWN," UNLESS OTHERWISE NOTED.
10. ALL MANHOLES, VALVE BOXES, UTILITY BOXES AND PEDESTALS, AND OTHER APPURTENANCES SHALL BE ADJUSTED TO FINISH GRADE IN ACCORDANCE WITH THE LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES OR UTILITY RULES AND REGULATIONS, UNLESS OTHERWISE NOTED.
11. SOIL COMPACTION BENEATH PAVEMENTS, STEPS, WALLS AND LIGHT FOUNDATIONS SHALL BE 95% PROCTOR DENSITY MINIMUM, UNLESS OTHERWISE SPECIFIED.
12. GRADING AND EXCAVATION WORK SHALL BE COMPLETED DURING DRY WEATHER CONDITIONS.
13. THE CONTRACTOR SHALL REMOVE AND STOCKPILE TOPSOIL FOR REUSE ON-SITE. SOIL SHALL BE SCREENED TO REMOVE ROCKS AND BOULDERS.
14. IF STRUCTURAL SOIL IS FOUND ON-SITE, THE CONTRACTOR SHALL REUSE.
15. THE CONTRACTOR SHALL PREVENT SOIL LOSS TO WIND AND WATER EROSION.
16. THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES.
17. THE GENERAL CONTRACTOR SHALL INSTALL & MAINTAIN TEMPORARY DRAINAGE DEVICES DURING CONSTRUCTION.
18. THE CONTRACTOR SHALL VERIFY ALL CONTROL POINTS, FINISH FLOOR ELEVATIONS & PROPOSED SPOT ELEVATIONS WITH LANDSCAPE ARCHITECT PRIOR TO FORMWORK INSTALLATION.
19. SPECIFICATIONS DELINEATED IN GEO-TECH REPORT TAKE PRECEDENCE OVER GRADING PLAN DRAWINGS. INFORM LANDSCAPE ARCHITECT OF DISCREPANCIES.

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.

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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MATERIALS, GRADING & LAYOUT NOTES

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04.11.2022	TAC REVIEW 3

L002

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 SCHEDULE FOR 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 "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 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.
5. CERTAIN HARDWOOD TREES AND GYMNOSPERMS REQUIRE LONGER ROOT PRUNING TIMES. THESE INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- AVOCADO (PERSEA AMERICANA)
- BLACK OLIVE (BUCIDA BUCERAS)
- BRIDALVEIL (CAESALPINIA GRANADILLO)
- CASSIAS (ALL SPECIES OF CASSIA)
- LIGNUM VITAE (GUA/ACUM SANCTUM & G. OFFICINALE)
- PODOCARPUS (PODOCARPUS SP.)
- LIVE OAK (QUERCUS VIRGINIANA)
- MAHOGANY (SWIETENIA MAHAGONI)
- MANGO (MANGIFERA INDICA)

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 MINIMUN 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)

04.11.2022

TREE DISPOSITION NOTES

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

L100

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

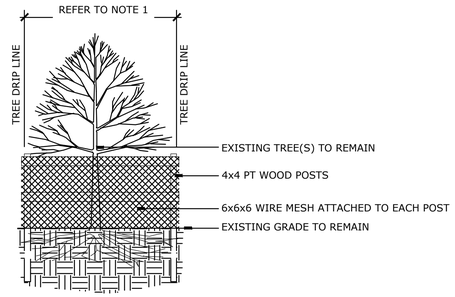
1. ALL RELOCATED TREES AND PALMS MUST BE MAINTAINED FOR ONE YEAR FROM THE DATE OF RELOCATION TO THEIR FINAL LOCATIONS.
2. CONTRACTOR MUST MAINTAIN ALL RELOCATED TREES AND PALMS FOR ONE FULL YEAR FROM THE DATE OF RELOCATION TO THE FINAL LOCATION.
3. WHENEVER POSSIBLE, EACH TREE AND PALM MUST BE WATERED 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.



NOTE:
1. DUE TO SITE CONSTRAINTS TREE PROTECTION FENCE MAY BE CONTINUOUS TO PROTECT MULTIPLE TREES. TREE PROTECTION FENCE TO BE INSTALLED AT EDGE OF EXISTING HARDSCAPE. WHERE SPACE ALLOWS TREE PROTECTION FENCE TO ALIGN WITH DRIPLINE OF TREE / PALM.
2. MAINTAIN FENCE THROUGHOUT CONSTRUCTION.
3. REFER TO LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES FOR ADDITIONAL REQUIREMENTS.

1 TREE PROTECTION FENCE

Scale: 1/4" = 1'- 0"

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SEAL (S TYLER NIELSEN - LA6667067)

04.11.2022

TREE DISPOSITION NOTES

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

L101

TREE DISPOSITION SCHEDULE

Project Address: 1236 George Bush Blvd. **Parcel ID** (12434609390000281):

Removal

Tree #	Common Name	Scientific Name	Height	Spread	DBH	Condition Rating < 50%	Comments
NA	NA	NA	NA	NA	NA		
						Condition Rating ≥ 50%	
52	YUCCA TREE	YUCCA SP.	12	8	12	75%	

Trees with Condition Rating < 50% to be Removed: **0 Trees**

Total DBHs of Trees with Condition Rating ≥ 50% to be Removed: **12 DBH inches** (1 TREE REMOVED)

Palm #	Common Name	Scientific Name	Height	Spread	Clear Trunk	Condition Rating < 50%	Comments
NA	NA	NA	NA	NA	NA		
						Condition Rating ≥ 50%	
1	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
2	SABAL PALM	SABAL PALMETTO	12	10	7	75%	
3	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	18	75%	
4	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	18	75%	
5	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	18	75%	
6	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	18	75%	
7	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	18	75%	
8	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	18	75%	
9	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
10	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
11	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
12	COCONUT PALM	COCOS NUCIFERA	28	14	20	75%	
13	COCONUT PALM	COCOS NUCIFERA	28	14	20	75%	
14	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
15	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
16	FISHTAIL PALM	CARYOTA MITIS	20	8	12	75%	
17	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
18	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
19	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	20	75%	
20	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
21	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
22	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
23	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
24	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
25	SOLITAIRE PALM	PTYCHOSPERMA ELEGANS	20	8	15	75%	
26	MONTGOMERY PALM	VEITCHIA ARECINA	18	8	14	75%	
27	MONTGOMERY PALM	VEITCHIA ARECINA	18	8	14	75%	
28	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
29	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
30	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	20	75%	
31	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
32	TRIANGLE PALM	DYPSIS DECARYI	12	12	8	75%	
33	SOLITAIRE PALM	PTYCHOSPERMA ELEGANS	20	8	15	75%	
34	SOLITAIRE PALM	PTYCHOSPERMA ELEGANS	20	8	15	75%	
35	SOLITAIRE PALM	PTYCHOSPERMA ELEGANS	20	8	15	75%	
36	SOLITAIRE PALM	PTYCHOSPERMA ELEGANS	20	8	15	75%	
37	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
38	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	20	75%	
39	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	20	75%	
40	FOXTAIL PALM	WODYETIA BIFURCATA	25	12	20	75%	
41	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
42	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
43	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
44	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
45	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
46	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
47	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
48	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
49	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
50	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
51	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
53	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
54	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
55	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
56	FISHTAIL PALM	CARYOTA MITIS	20	8	12	75%	
57	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
58	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
59	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
60	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
61	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
62	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
63	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
64	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
65	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
66	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
67	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
68	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
69	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
70	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
71	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
72	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
72A	SABAL PALM	SABAL PALMETTO	12	10	6	75%	
73	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
74	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
75	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	
76	ARECA PALM	DYPSIS LUTESCENS	20	14	12	75%	
77	CHRISTMAS PALM	ADONIDIA MERRILLII	20	12	15	75%	

Total Numbers of Palms with Condition Rating < 50% to be Removed: **0 Palms**

Total Heights of Palms with Condition Rating ≥ 50% to be Removed: **1479 feet in height** (77 PALMS REMOVED)

MITIGATION CALCULATIONS

Mitigation

Tree Replacement Calculations*

New Trees	Caliper (CAL)	Calipers Provided
9 of Autograph Tree	9 X 6 inch CAL	54
12 of Simpson's Stopper	12 X 4 inch CAL	48
18 of Dwarf White Trumpet	18 X 4 inch CAL	72

Replacement for Trees (Removed, Condition Rating ≥ 50%): **174 CAL** (39 Trees)

Replacement for Tree-for-Tree basis: **0 Trees**

Palm Replacement Calculations **

New Palms	Overall Height	Clear Trunk
8 of Veichia Montgomeryana	20 x 8 = 160	12 x 8 = 96
10 of Veichia Montgomeryana	25 x 10 = 250	17 x 10 = 170
10 of Veichia Montgomeryana	30 x 10 = 300	22 x 10 = 220
3 of Dypsis Pembana	25 x 3 = 75	17 x 3 = 51
9 of Psuedophoenix Sargentii	12x 9 = 108	6 x 9 = 54
10 of Psuedophoenix Sargentii	15 x 10 = 150	9 x 10 = 90
7 of Psuedophoenix Sargentii	18 x 7 = 126	12 x 7 = 84

Replacement for Palms (Removed, Condition Rating ≥ 50%): **1169 total heights & 57 Palms**

Replacement for Palm-for-Palm basis: **0 Palms**

3

Requirements of Vegetation Removal (Sec. 4.6.19 (E)(5)

*** TREE**

*Staff recommends at least 4" CAL trees for mitigation as required.

Trees with condition rating of ≥ 50%: Total DBHs of trees shall be replaced with equivalent # of CAL inches of replacement trees.

Trees with condition rating of < 50%: Required to be mitigated on a tree-for-tree basis (16' OH X 6' ST X 8' CT X 7' SPR for others & 12' OH for SF & Duplex)

**** Palm**

Palms with condition rating of ≥ 50%: Replaced with one palm of equal overall heights (OH) or 16 ft OH, whichever is greater

Palms with condition rating of < 50%: Required to be mitigated on a palm-for-palm basis (16' OH X 8 CT for others & 12' OH X 6' CT for SF & Duplex)

In Lieu Fee for TREE (Sec. 4.6.19.(E)(5)(d))

DBH 0 to 8"	$450
DBH 9" to 12"	$650
DBH 13" to 18"	$850
DBH 19" and greater	$1,000

Example: In-lieu-fee for a 21" DBH tree: ($450 × 8") + ($650 × 4") + ($850 × 6") + ($1,000 × 3") = $3,600 + $2,600 + $5,100 + $3,000 = $14,300

For trees with a condition rating of between 25 percent and 50 percent, the in-lieu fee shall be calculated at 50 percent of the above escalating scale.

In-lieu-fee for a palm: $75 per one foot grey trunk or clear trunk

MITIGATION NOTE

THE 77 PALMS & 1 TREE PROPOSED FOR REMOVAL ON-SITE WILL BE MITIGATED WITH 57 NEW PALMS & 39 NEW TREES.

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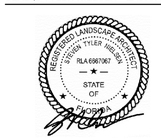

04.11.2022

TREE DISPOSITION SCHEDULE

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09.15.2021	SPRAB SUBMITTAL
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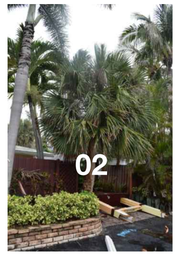
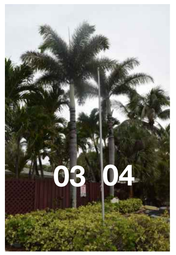
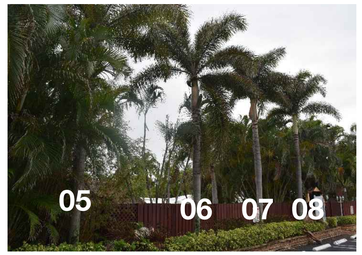
04.11.2022	TAC REVIEW 3

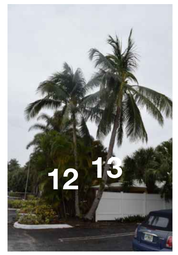
L102

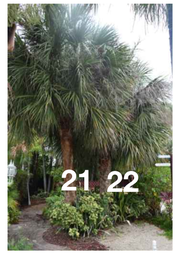
REFERENCE IMAGERY

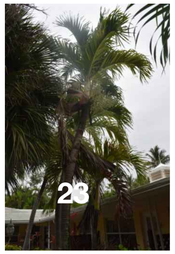


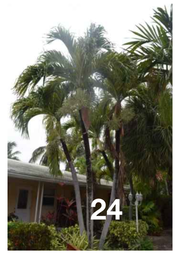


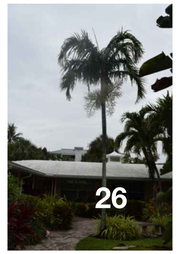


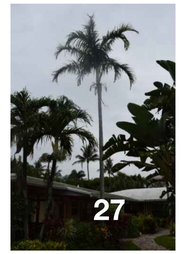


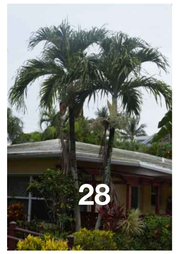


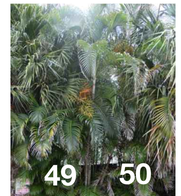


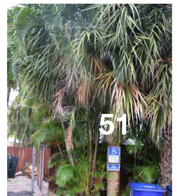


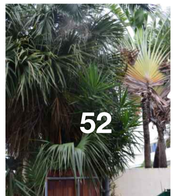


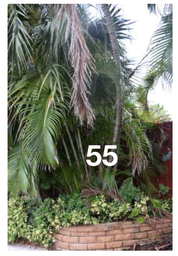


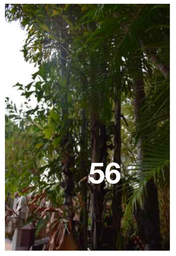


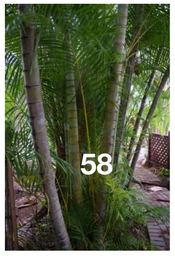












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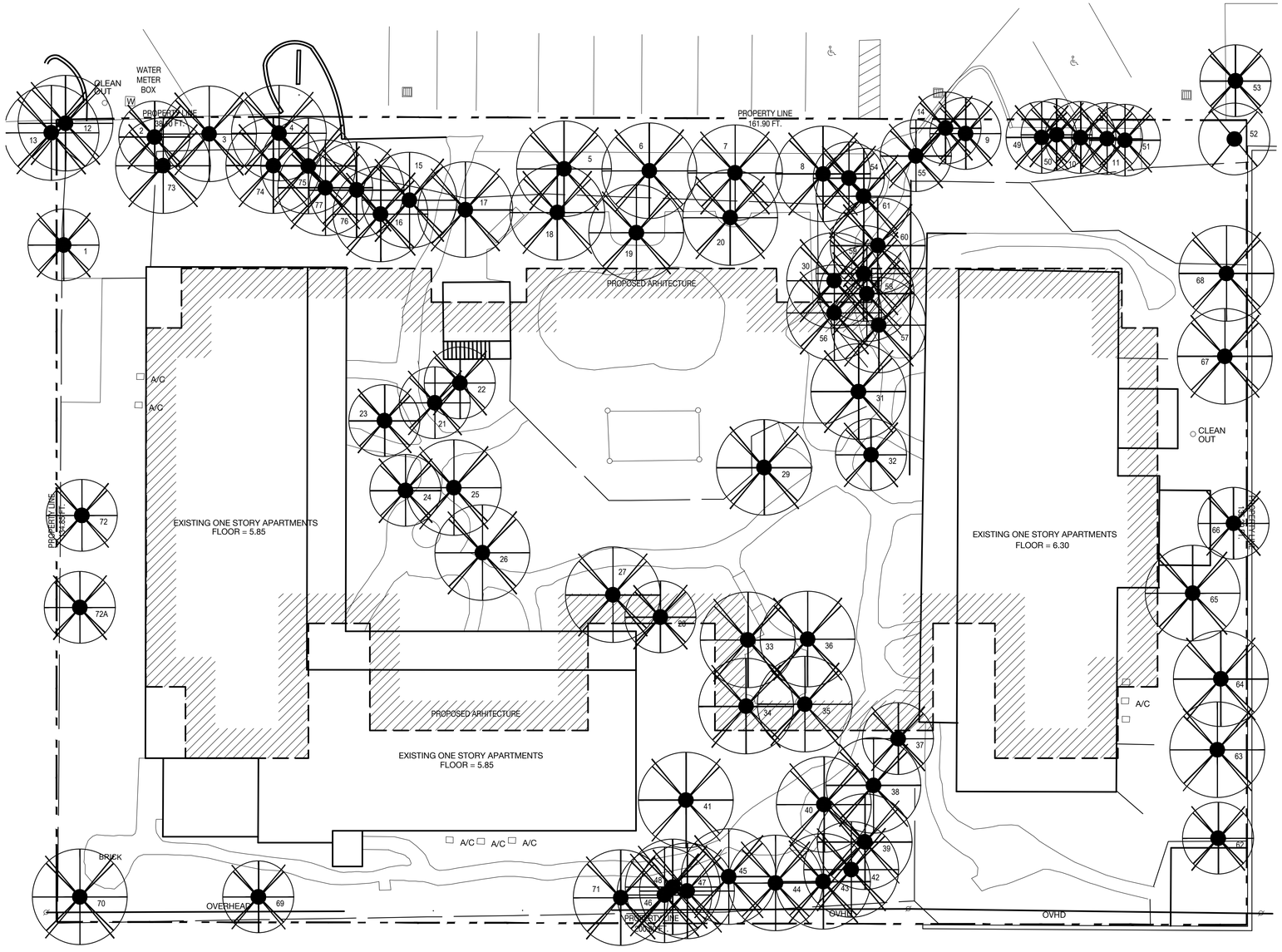
04.11.2022

TREE REFERENCE IMAGES

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

L103



TREE DISPOSITION LEGEND

PALM TO BE REMOVED

TREE TO BE REMOVED

TREE DISPOSITION SCHEDULE

#	BOTANICAL NAME	ACTION
1	SABAL PALMETTO	REMOVE
2	SABAL PALMETTO	REMOVE
3	WODYETIA BIFURCATA	REMOVE
4	WODYETIA BIFURCATA	REMOVE
5	WODYETIA BIFURCATA	REMOVE
6	WODYETIA BIFURCATA	REMOVE
7	WODYETIA BIFURCATA	REMOVE
8	WODYETIA BIFURCATA	REMOVE
9	SABAL PALMETTO	REMOVE
10	SABAL PALMETTO	REMOVE
11	SABAL PALMETTO	REMOVE
12	COCOS NUCIFERA	REMOVE
13	COCOS NUCIFERA	REMOVE
14	SABAL PALMETTO	REMOVE
15	DYPSIS LUTESCENS	REMOVE
16	CARYOTA MITIS	REMOVE
17	DYPSIS LUTESCENS	REMOVE
18	DYPSIS LUTESCENS	REMOVE
19	WODYETIA BIFURCATA	REMOVE
20	DYPSIS LUTESCENS	REMOVE
21	SABAL PALMETTO	REMOVE
22	SABAL PALMETTO	REMOVE
23	ADONIDIA MERRILLII	REMOVE
24	ADONIDIA MERRILLII	REMOVE
25	PTYCHOSPERMA ELEGANS	REMOVE
26	VEITCHIA ARECINA	REMOVE
27	VEITCHIA ARECINA	REMOVE
28	ADONIDIA MERRILLII	REMOVE
29	ADONIDIA MERRILLII	REMOVE
30	WODYETIA BIFURCATA	REMOVE
31	DYPSIS LUTESCENS	REMOVE
32	DYPSIS DECARYI	REMOVE
33	PTYCHOSPERMA ELEGANS	REMOVE
34	PTYCHOSPERMA ELEGANS	REMOVE
35	PTYCHOSPERMA ELEGANS	REMOVE
36	PTYCHOSPERMA ELEGANS	REMOVE
37	SABAL PALMETTO	REMOVE
38	WODYETIA BIFURCATA	REMOVE
39	WODYETIA BIFURCATA	REMOVE
40	WODYETIA BIFURCATA	REMOVE
41	DYPSIS LUTESCENS	REMOVE
42	DYPSIS LUTESCENS	REMOVE
43	DYPSIS LUTESCENS	REMOVE
44	DYPSIS LUTESCENS	REMOVE
45	DYPSIS LUTESCENS	REMOVE
46	DYPSIS LUTESCENS	REMOVE
47	DYPSIS LUTESCENS	REMOVE
48	DYPSIS LUTESCENS	REMOVE
49	DYPSIS LUTESCENS	REMOVE
50	DYPSIS LUTESCENS	REMOVE
51	DYPSIS LUTESCENS	REMOVE
52	YUCCA SP.	REMOVE
53	SABAL PALMETTO	REMOVE
54	DYPSIS LUTESCENS	REMOVE
55	DYPSIS LUTESCENS	REMOVE
56	CARYOTA MITIS	REMOVE
57	DYPSIS LUTESCENS	REMOVE
58	DYPSIS LUTESCENS	REMOVE
59	DYPSIS LUTESCENS	REMOVE
60	DYPSIS LUTESCENS	REMOVE
61	DYPSIS LUTESCENS	REMOVE
62	SABAL PALMETTO	REMOVE
63	DYPSIS LUTESCENS	REMOVE
64	ADONIDIA MERRILLII	REMOVE
65	ADONIDIA MERRILLII	REMOVE
66	SABAL PALMETTO	REMOVE
67	DYPSIS LUTESCENS	REMOVE
68	ADONIDIA MERRILLII	REMOVE
69	SABAL PALMETTO	REMOVE
70	ADONIDIA MERRILLII	REMOVE
71	DYPSIS LUTESCENS	REMOVE
72	SABAL PALMETTO	REMOVE
72A	SABAL PALMETTO	REMOVE
73	ADONIDIA MERRILLII	REMOVE
74	ADONIDIA MERRILLII	REMOVE
75	ADONIDIA MERRILLII	REMOVE
76	DYPSIS LUTESCENS	REMOVE
77	ADONIDIA MERRILLII	REMOVE

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REGISTERED LANDSCAPE ARCHITECT
STEVEN TYLER NIELSEN
LIC. NO. RLA 6667067
STATE OF FLORIDA

04.11.2022

TREE DISPOSITION PLAN

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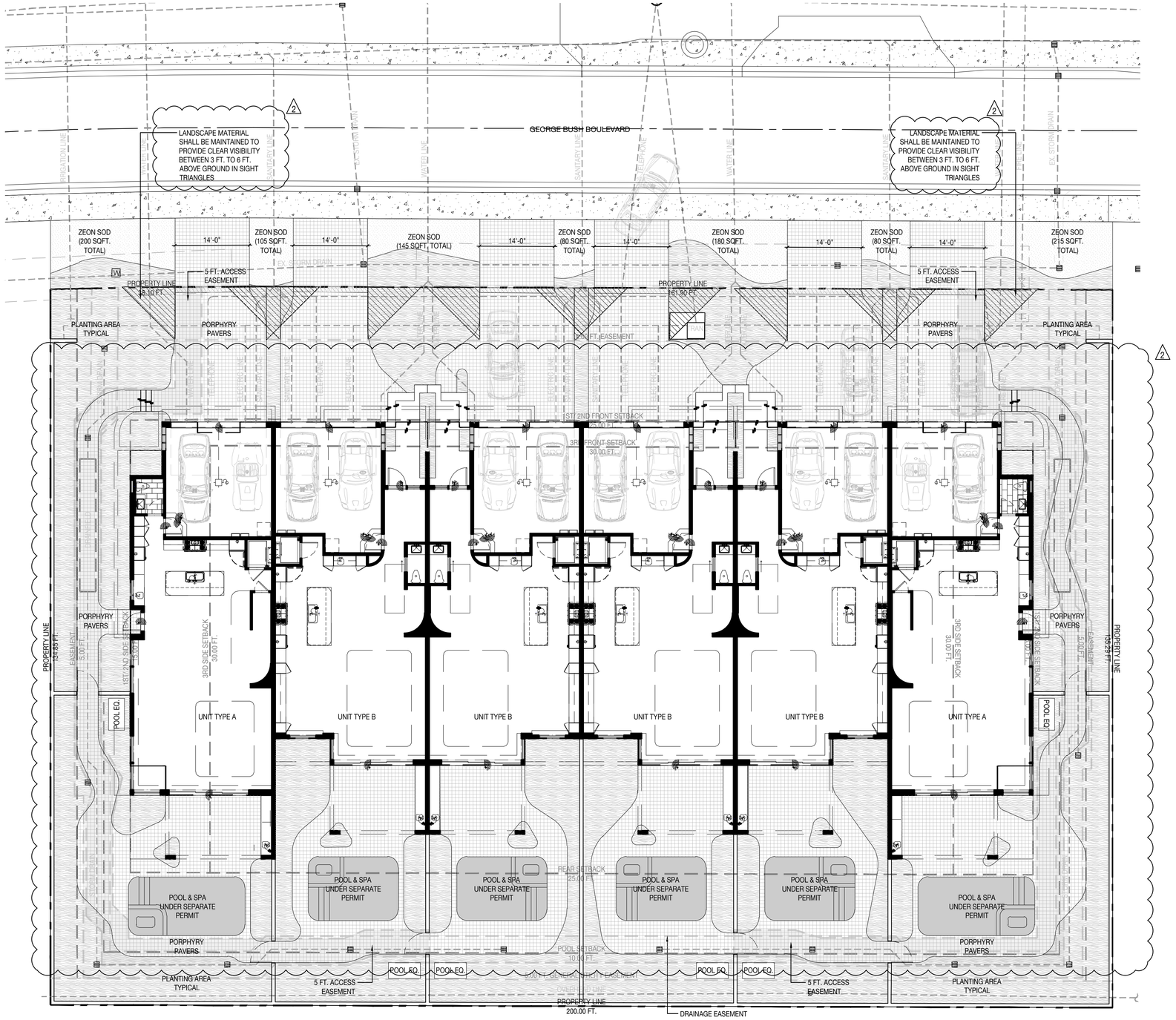
NORTH
0 5 10

L104



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REGISTERED LANDSCAPE ARCHITECT
STEVEN TYLER NIELSEN
RLA 6667067
STATE OF FLORIDA

04.11.2022

MATERIALS LEGEND

- PLANTING AREA TYPICAL
- ZOYSIA SOD
- PORPHYRY PAVERS
- WATER

MATERIALS PLAN

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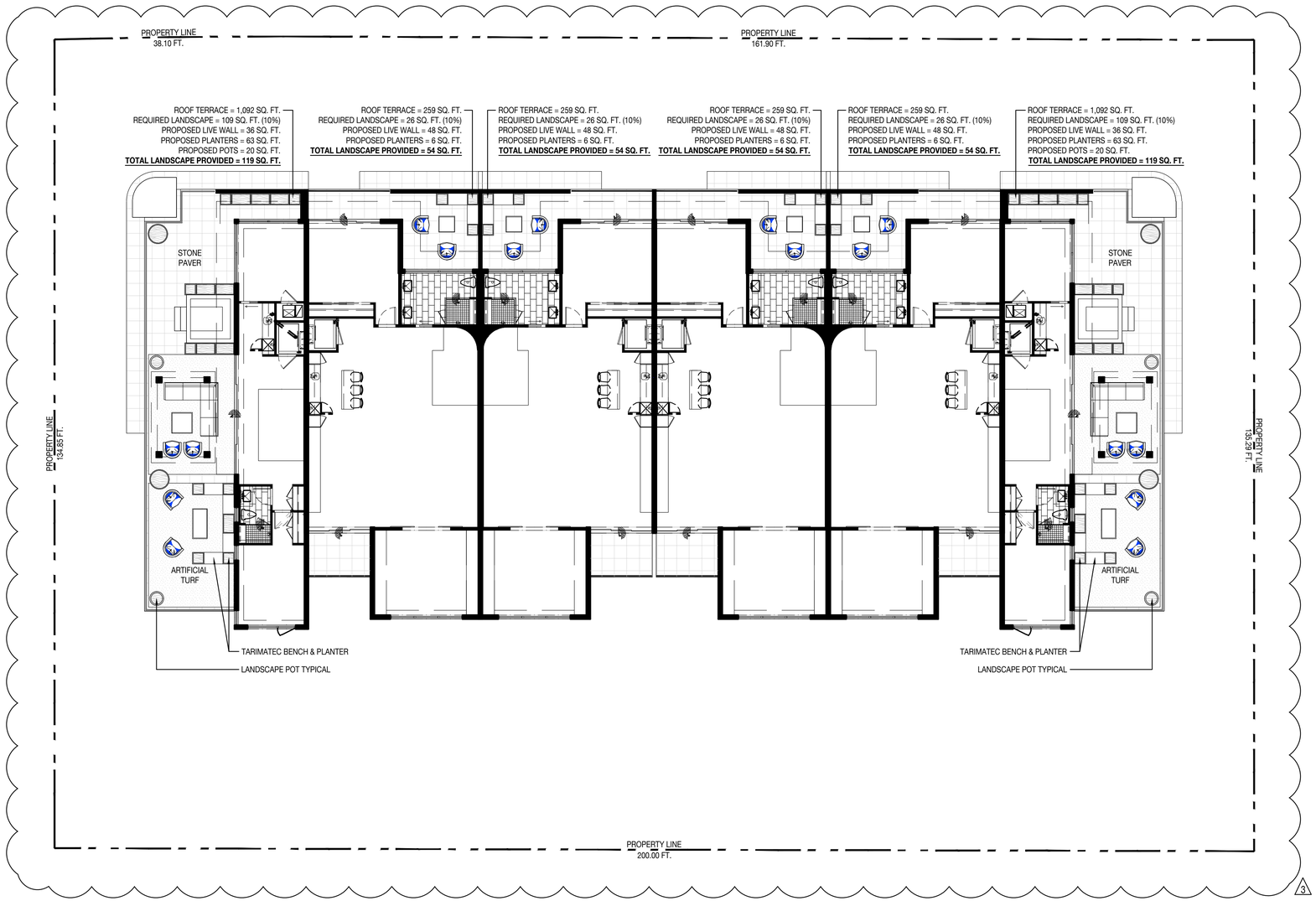

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THIRD LEVEL MATERIALS LEGEND

▨	PLANTING AREA TYPICAL
▦	STONE PAVER; REFER TO ARCH. DRAWINGS
☐	ARTIFICIAL TURF

NOTE:

PLEASE REFER TO ARCHITECTURE PLANS FOR THIRD LEVEL PLANS & DETAILS.

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STEVEN TYLER NIELSEN
RLA 6667067

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THIRD LEVEL MATERIALS PLAN

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NORTH

0 5 10

L302

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 (LANDSCAPE FOUNDATION QUANTITIES SEPARATE; SEE SHEET L700A)

ABR.	QUANTITY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS (AT THE TIME OF PLANTING)	NATIVE	REQUIRED / ORNAMENTAL
TREES						
CRO	9	CLUSIA ROSEA	AUTOGRAPH TREE (CC GROWERS)	MULTI/ 200 GAL./ 16 FT. HT./ 8 FT. CT./ 6 FT. SINGLE STRAIGHT TRUNK/ 7 FT. SP.	YES	(4) REQUIRED / (5) ORNAMENTAL
MFR	12	MYRCIANTHES FRAGRANS	SIMPSON'S STOPPER	4 IN. DBH./ 20 FT. HT./ 8 FT. CT./ 6 FT. SINGLE STRAIGHT TRUNK/ 7 FT. SP.	YES	REQUIRED
TBA	18	TABEBUIA BAHAMENSIS	DWARF WHITE TRUMPET	FG./ 16 FT. HT./ 4 IN. DBH/ 8 FT. CT./ 6 FT. SINGLE STRAIGHT TRUNK/ 7 FT. SP.	YES	(2) REQUIRED / (16) ORNAMENTAL
PALMS						
VM1	8	VEITCHIA MONTGOMERYANA x WODYETIA BIFURCATA	SAME	FG. 20 FT. OA. HT. (8 FT. MIN. CT.)	NO	(5) REQUIRED / (3) ORNAMENTAL
VM2	7	VEITCHIA MONTGOMERYANA x WODYETIA BIFURCATA	SAME	FG. 25 FT. OA. HT. (8 FT. MIN. CT.)	NO	(2) REQUIRED / (5) ORNAMENTAL
VM3	6	VEITCHIA MONTGOMERYANA x WODYETIA BIFURCATA	SAME	FG. 30 FT. OA. HT. (8 FT. MIN. CT.)	NO	(3) REQUIRED / (3) ORNAMENTAL
DPE	3	DYPSIS PEMBANA	SAME	FG. CLUMP 20-25 FT. OA.	NO	ORNAMENTAL
PS1	5	PSUEDOPHOENIX SARGENTII	BUCCANEER PALM	FG. 8 FT. GW. (16 FT. MIN. OA. HT.)	YES	ORNAMENTAL
PS2	8	PSUEDOPHOENIX SARGENTII	BUCCANEER PALM	FG. 10 FT. GW. (16 FT. MIN. OA. HT.)	YES	(1) REQUIRED / (7) ORNAMENTAL
PS3	7	PSUEDOPHOENIX SARGENTII	BUCCANEER PALM	FG. 12 FT. GW. (16 FT. MIN. OA. HT.)	YES	(3) REQUIRED / (4) ORNAMENTAL
UNDERSTORY TREES & SHRUBS						
GL	108	GYMNANTHES LUCIDA	CRABWOOD	25 GAL. 8 FT. HT.	YES	(59) REQUIRED / (49) ORNAMENTAL
GL2	108	GYMNANTHES LUCIDA	CRABWOOD	3 GAL. TO BE PLANTED BETWEEN 25 GAL. SHRUBS (MIN. 2 FT. HT.)	YES	(59) REQUIRED / (49) ORNAMENTAL
PL	56	PSYCHOTRIA LIGUSTRIFOLIA	BAHAMA WILD COFFEE	7 GAL. 3 FT. x 3 FT.	YES	(3) REQUIRED / (53) ORNAMENTAL
KI	61	CORDYLINE FRUTICOSA 'KIWI'	TI PLANT	15 GAL. 5 FT. OA.	NO	(8) REQUIRED / (53) ORNAMENTAL
CA	54	CRINUM AUGUSTUM 'QUEEN EMMA'	CRINUM LILY 'QUEEN EMMA'	7 GAL. FULL 3 FT. x 3 FT.	YES	(19) REQUIRED / (35) ORNAMENTAL
CE	6	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTONWOOD	25 GAL. BUSH 6 FT. OA.	YES	(3) REQUIRED / (3) ORNAMENTAL
RK	64	RADERMACHERA 'KUNMING'	DWARF TREE JASMINE	25 GAL. 6 FT. OA.	NO	(31) REQUIRED / (33) ORNAMENTAL
ACCENTS						
AO	52	ALCANTAREA 'ODORATA'	BROMELIAD	7 GAL.	NO	(5) REQUIRED / (47) ORNAMENTAL
PW	53	PHILODENDRON 'WEEKS RED HYBRID'	SAME	15 GAL.	NO	(17) REQUIRED / (36) ORNAMENTAL
GROUNDCOVERS						
RC	1,435	RUELLIA BRITTONIANA 'COMPACTA KATIE'	MEXICAN BLUEBELL	3 GAL. 18 IN. O.C.	NO	(360) REQUIRED / (1,075) ORNAMENTAL
HO	605	HOMALOMENA	EMERALD GEM	3 GAL. 18 IN. x 18 IN. - 18 IN. O.C.	NO	(85) REQUIRED / (510) ORNAMENTAL
VK	635	VRIESEA 'KIWI'	BROMELIAD	3 GAL. 12 IN. O.C.	NO	(100) REQUIRED / (505) ORNAMENTAL
MISC.						
ALL SOD AREAS TO BE REPLACED WITH ZOYSIA 'ZEON'						
LANDSCAPE ARCHITECT TO HAVE $2000 WHOLESALE ACCENT PLANT ALLOWANCE						

3

PLANT REFERENCE IMAGES


AUTOGRAPH TREE


DWARF WHITE TRUMPET


VEITCHIA MONTGOMERYANA x WODYETIA BIFURCATA


DYPSIS PEMBANA


BUCCANEER PALM


CRABWOOD


BAHAMA WILD COFFEE


TI PLANT


CRINUM LILY 'QUEEN EMMA'


SILVER BUTTONWOOD


DWARF TREE JASMINE


ALCANTAREA 'ODORATA'


PHILODENDRON 'WEEKS RED HYBRID'


MEXICAN BLUEBELL


EMERALD GEM


VRIESEA 'KIWI'


SIMPSON'S STOPPER

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1236 G.B. BLVD GARDEN

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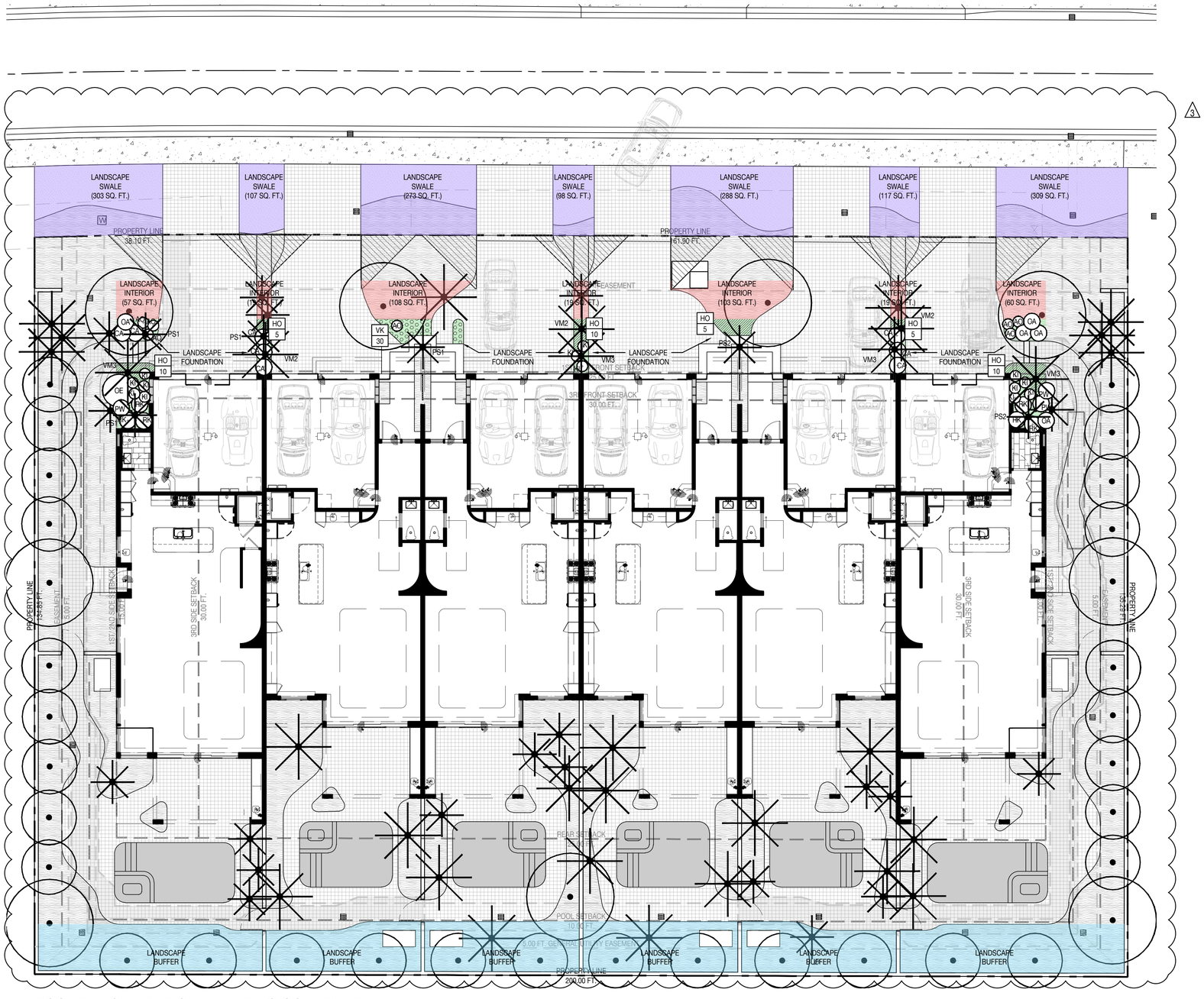
SEAL (S TYLER NIELSEN - LA6667067)

04.11.2022

PLANTING SCHEDULE & NOTES

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

L700



LANDSCAPE FOUNDATION PLANTING SCHEDULE

ABR.	QUANTITY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS (AT THE TIME OF PLANTING)	NATIVE	REQUIRED / ORNAMENTAL
PALMS						
VM2	3	VEITCHIA MONTGOMERYANA x WODYETIA BIFURCATA	SAME	FG. 25 FT. OA. HT. (8 FT. MIN. CT.)	NO	REQUIRED
VM3	4	VEITCHIA MONTGOMERYANA x WODYETIA BIFURCATA	SAME	FG. 30 FT. OA. HT. (8 FT. MIN. CT.)	NO	REQUIRED
PS1	4	PSUEDOPHOENIX SARGENTII	BUCCANEER PALM	FG. 8 FT. GW. (16 FT. MIN. OA. HT.)	YES	REQUIRED
PS2	2	PSUEDOPHOENIX SARGENTII	BUCCANEER PALM	FG. 10 FT. GW. (16 FT. MIN. OA. HT.)	YES	REQUIRED
UNDERSTORY TREES & SHRUBS						
KI	13	CORDYLINE FRUTICOSA 'KIWI'	TI PLANT	15 GAL. 5 FT. OA.	NO	REQUIRED
CA	13	CRINUM AUGUSTUM 'QUEEN EMMA'	CRINUM LILY 'QUEEN EMMA'	7 GAL. FULL 3 FT. x 3 FT.	YES	REQUIRED
CE	1	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTONWOOD	25 GAL. BUSH 6 FT. OA.	YES	REQUIRED
RK	6	RADERMACHERA 'KUNMING'	DWARF TREE JASMINE	25 GAL. 6 FT. OA.	NO	REQUIRED
ACCENTS						
AO	10	ALCANTAREA 'ODORATA'	BROMELIAD	7 GAL.	NO	REQUIRED
PW	3	PHILODENDRON 'WEEKS RED HYBRID'	SAME	15 GAL.	NO	REQUIRED
GROUNDCOVERS						
HO	45	HOMALOMENA	EMERALD GEM	3 GAL. 18 IN. x 18 IN. - 18 IN. O.C.	NO	REQUIRED
VK	40	VRIESEA 'KIWI'	BROMELIAD	3 GAL. 12 IN. O.C.	NO	REQUIRED

LANDSCAPE CALCULATION LEGEND

- LANDSCAPE SWALE (1,495 SQ. FT.) (200 LINEAR FT.)
- LANDSCAPE BUFFER (200 LINEAR FT.)
- LANDSCAPE INTERIOR (385 SQ. FT.)
- LANDSCAPE FOUNDATION (175 LINEAR FT.)

FOUNDATION LANDSCAPE PLANTING LEGEND

- PROPOSED PALM
- PROPOSED TREE
- PROPOSED GROUNDCOVER (TYP #)
- PROPOSED SHRUB / ACCENT
- PROPOSED VINE

NOTE:

ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS; LD1.1 & LD 1.2.
(REFER TO DETAILS 3 & 4 ON SHEET L706)

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REGISTERED LANDSCAPE ARCHITECT STATE OF FLORIDA TYLER NIELSEN RLA 6667067

04.11.2022

LANDSCAPE CALCULATION / FOUNDATION PLANTING PLAN

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

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L700A

Landscape Requirements

Multiple Family, Commercial, and Industrial Development

Color-coded or hatched diagram demonstrating requirements listed in this Table, as applicable, should be provided for verification.

			Plant lists (Example)	
Interior Landscaping LDR Sec. 4.6.16.(H)(3)(g) & (h)	**Required:** 10% of 2,784 sq.ft. of parking & accessways, one tree for every 125 sq.ft.	279 sq.ft. 3 Trees	# (quantity) & List of Trees/Palms	# (quantity) & List of shrubs for hedge
	Provided:	382 sq.ft. 4 Trees & 5 Palms	▪ 4 Autograph Tree ▪ 2 Veitchia Montgomeryana ▪ 3 Buccaneer Palm	▪ 3 Bahama Wild Coffee ▪ 3 Ti Plant ▪ 5 Crinum Lily 'Queen Emma' ▪ 1 Silver Buttonwood ▪ 5 Dwarf Tree Jasmine ▪ 5 Alcantarea 'Odorata' ▪ 6 Philodendron 'Weeks Red Hybrid' ▪ 10 Mexican Bluebell ▪ 55 Emerald Gem ▪ 100 Vriesea 'Kiwi'
Landscape Strip LDR Sec. 4.6.16(H)(3)(a)	**Required:** One tree for every 30 linear feet (l.f.) with continuous hedge	N/A	# (quantity) & List of Trees/Palms	# (quantity) & List of shrubs for hedge
	Provided:	N/A	▪ N/A	▪ N/A
Landscape Barrier LDR Sec. 4.6.16(H)(3)(d)	**Required:** One tree for every 30 l.f. with continuous hedge	50 L.F. / 30 = 2 Trees	# (quantity) & List of Trees/Palms:	# (quantity) & List of shrubs for hedge
	Provided:	50 L.F. / 30 = 2 Trees & 6 Palms	▪ 6 Veitchia Montgomeryana ▪ 2 Tabebuia Bahamensis	▪ 10 Crabwood ▪ 4 Dwarf Tree Jasmine ▪ 4 Crinum Lily 'Queen Emma' ▪ 2 Silver Buttonwood
Foundation Landscaping LDR Sec. 4.6.16 (H)(4)	**Required:** Total building façade length facing ROWs	170 l.f.	# (quantity) & List of Trees/Palms:	# (quantity) & List of shrubs and/or ground covers
	Provided:	175 l.f. 13 Palms & 33 shrubs	▪ 7 Veitchia Montgomeryana ▪ 6 Buccaneer Palm	▪ 13 Ti Plant ▪ 13 Crinum Lily 'Queen Emma' ▪ 1 Silver Buttonwood ▪ 6 Dwarf Tree Jasmine ▪ 10 Alcantarea 'Odorata' ▪ 3 Philodendron 'Weeks Red Hybrid' ▪ 55 Emerald Gem ▪ 70 Vriesea 'Kiwi'
Street Trees LDR Sec. 4.6.16. (H)(6)	**Required:** One street tree for every 40 l.f. with a minimum of one tree per property.	200 l.f. 5 Trees	# (quantity) & List of Trees:	
	Provided:	0 Trees (Relief Waiver to be granted)	▪ 0 Trees (Site Plan Review & Appearance Board to grant relief waiver)	
Landscape Buffer Please review specific use and zoning district requirements AND Sec. 4.6.16(H)(3)(e)	**Required:**	200 l.f. 7 Trees & 54 shrubs	# (quantity) & List of Trees/Palms	# (quantity) & List of shrubs and/or ground covers
	Provided:	200 l.f. 12 Trees & 3 Palms & 138 shrubs	▪ 12 Simpson's Stopper ▪ 2 Veitchia Montgomeryana ▪ 1 Buccaneer Palm	▪ 108 Crabwood ▪ 5 Ti Plant ▪ 10 Crinum Lily 'Queen Emma' ▪ 22 Dwarf Tree Jasmine ▪ 11 Philodendron 'Weeks Red Hybrid' ▪ 350 Mexican Bluebell ▪ 30 Emerald Gem
Landscape Island and strip for parking lot LDR Sec. 4.6.16(H)(3)(i), (j), (k)	N/A landscape islands One shade tree, a minimum of 135 sq.ft. of planting area, at least 9 ft wd, not including a curb	N/A Trees	# (quantity) & List of Trees: ▪ N/A	

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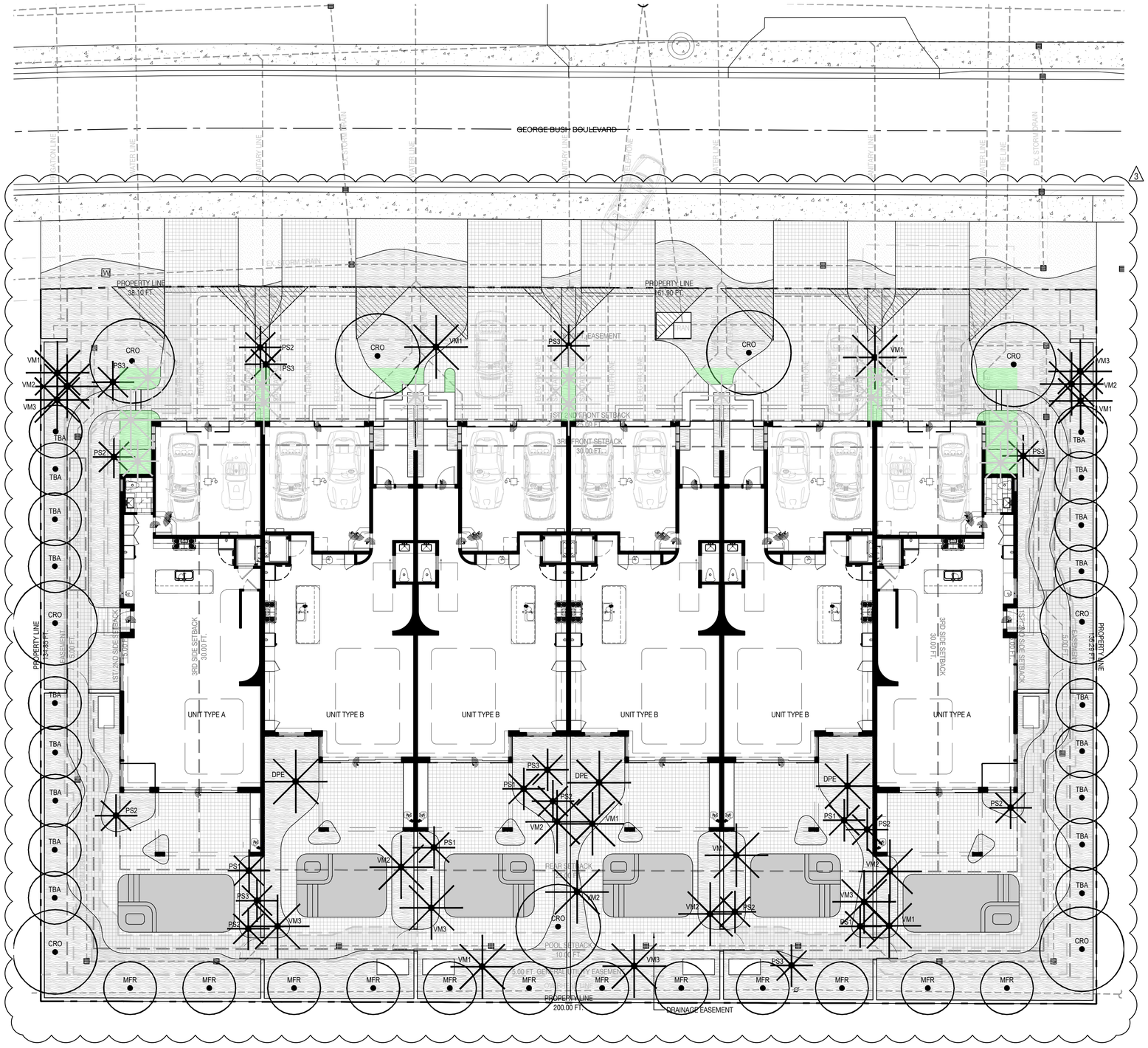
04.11.2022

LANDSCAPE REQUIREMENTS

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

L700B



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PLANTING LEGEND

PROPOSED PALM

PROPOSED TREE

FOUNDATION LANDSCAPING
(RE: L700A FOR SEPARATE PLANT LIST)

1236 G.B. BLVD GARDEN

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NOTE:

ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS; LD1.1 & LD 1.2.
(REFER TO DETAILS 3 & 4 ON SHEET L706)

PLANTING SCHEDULE
(LANDSCAPE FOUNDATION QUANTITIES SEPARATE; SEE SHEET L700A)

ABR.	QUANTITY	BOTANICAL NAME	COMMON NAME
TREES			
CRO	9	CLUSIA ROSEA	AUTOGRAPH TREE
MFR	12	MYRCIANTHES FRAGRANS	SIMPSON'S STOPPER
TBA	18	TABEBUIA BAHAMENSIS	DWARF WHITE TRUMPET
PALMS			
VM1	8	VEITCHIA MONTGOMERYANA x WODYETIA BIFURCATA	SAME
VM2	7	VEITCHIA MONTGOMERYANA x WODYETIA BIFURCATA	SAME
VM3	6	VEITCHIA MONTGOMERYANA x WODYETIA BIFURCATA	SAME
DPE	3	DYPSIS PEMBANA	SAME
PS1	5	PSUEDOPHOENIX SARGENTII	BUCCANEER PALM
PS2	2	PSUEDOPHOENIX SARGENTII	BUCCANEER PALM
PS3	7	PSUEDOPHOENIX SARGENTII	BUCCANEER PALM

SEAL (S TYLER NIELSEN - LA6667067)

REGISTERED LANDSCAPE ARCHITECT
STEVEN TYLER NIELSEN
RLA 6667067
STATE OF FLORIDA

04.11.2022

TREE & PALM PLANTING PLAN

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

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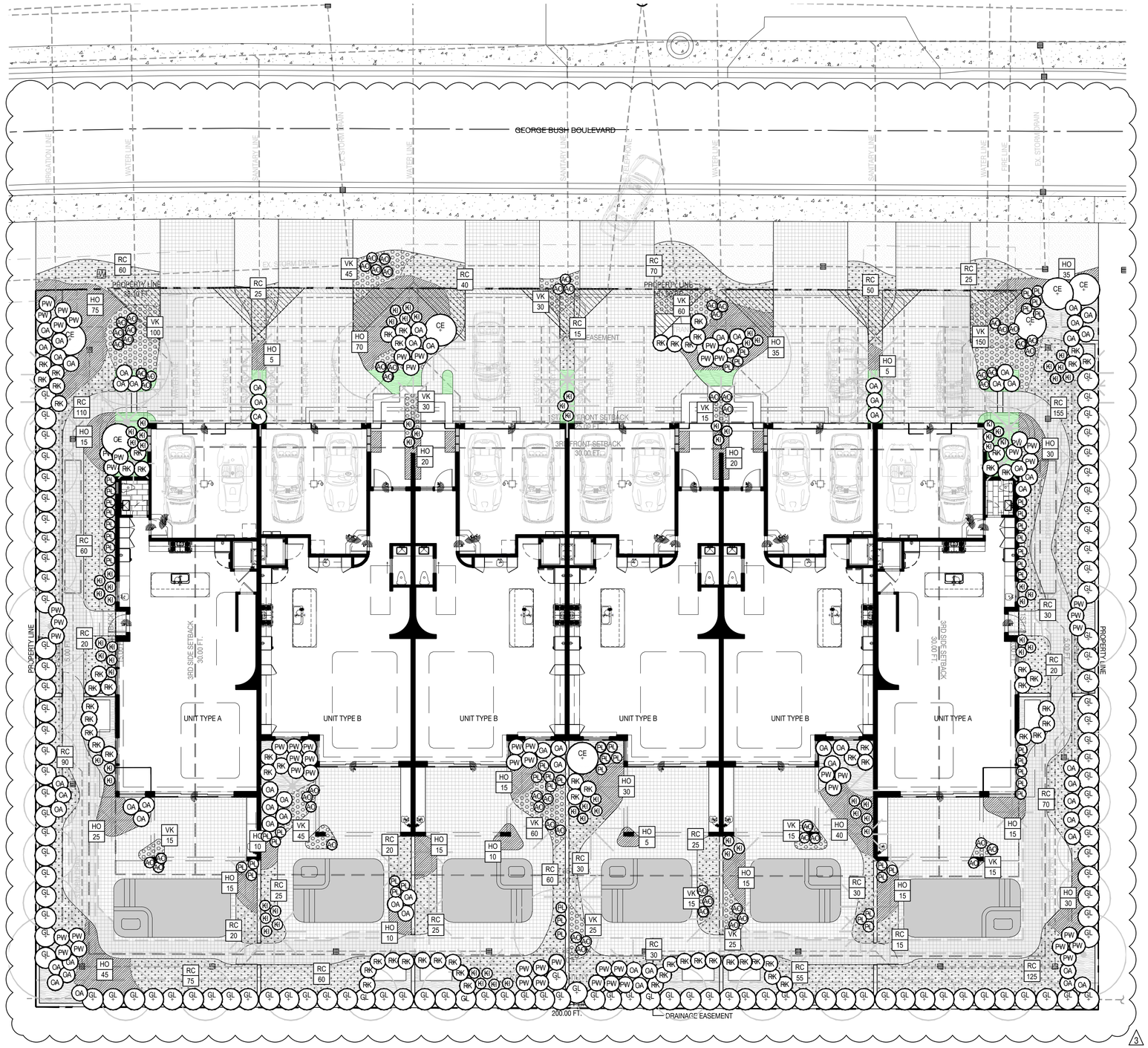

PLANTING LEGEND

- PROPOSED PALM
- PROPOSED TREE
- FOUNDATION LANDSCAPING (RE: L700A FOR SEPARATE PLANT LIST)
- PROPOSED GROUNDCOVER (TYP #)
- PROPOSED SHRUB / ACCENT
- PROPOSED VINE

NOTE:

ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS; LD1.1 & LD 1.2.
(REFER TO DETAILS 3 & 4 ON SHEET L706)

PLANTING SCHEDULE
(LANDSCAPE FOUNDATION QUANTITIES SEPARATE; SEE SHEET L700A)

ABR.	QUANTITY	BOTANICAL NAME	COMMON NAME
UNDERSTORY TREES & SHRUBS			
GL	108	GYMNANTHES LUCIDA	CRABWOOD
GL2	108	GYMNANTHES LUCIDA	CRABWOOD
PL	56	PSYCHOTRIA LIGUSTRIFOLIA	BAHAMA WILD COFFEE
KI	61	CORDYLINE FRUTICOSA 'KIWI'	TI PLANT
CA	54	CRINUM AUGUSTUM 'QUEEN EMMA'	CRINUM LILY 'QUEEN EMMA'
CE	6	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTONWOOD
RK	64	RADERMACHERA 'KUNMING'	DWARF TREE JASMINE
ACCENTS			
AO	52	ALCANTAREA 'ODORATA'	BROMELIAD
PW	53	PHILODENDRON 'WEEKS RED HYBRID'	SAME
GROUNDCOVERS			
RC	1,435	RUELLIA BRITTONIANA 'COMPACTA KATIE'	MEXICAN BLUEBELL
HO	605	HOMALOMENA	EMERALD GEM
VK	635	VRIESEA 'KIWI'	BROMELIAD

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SEAL (S TYLER NIELSEN - LA6667067)

REGISTERED LANDSCAPE ARCHITECT
STEVEN TYLER NIELSEN
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STATE OF FLORIDA

04.11.2022

UNDERSTORY PLANTING PLAN

DATE	ISSUE
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01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

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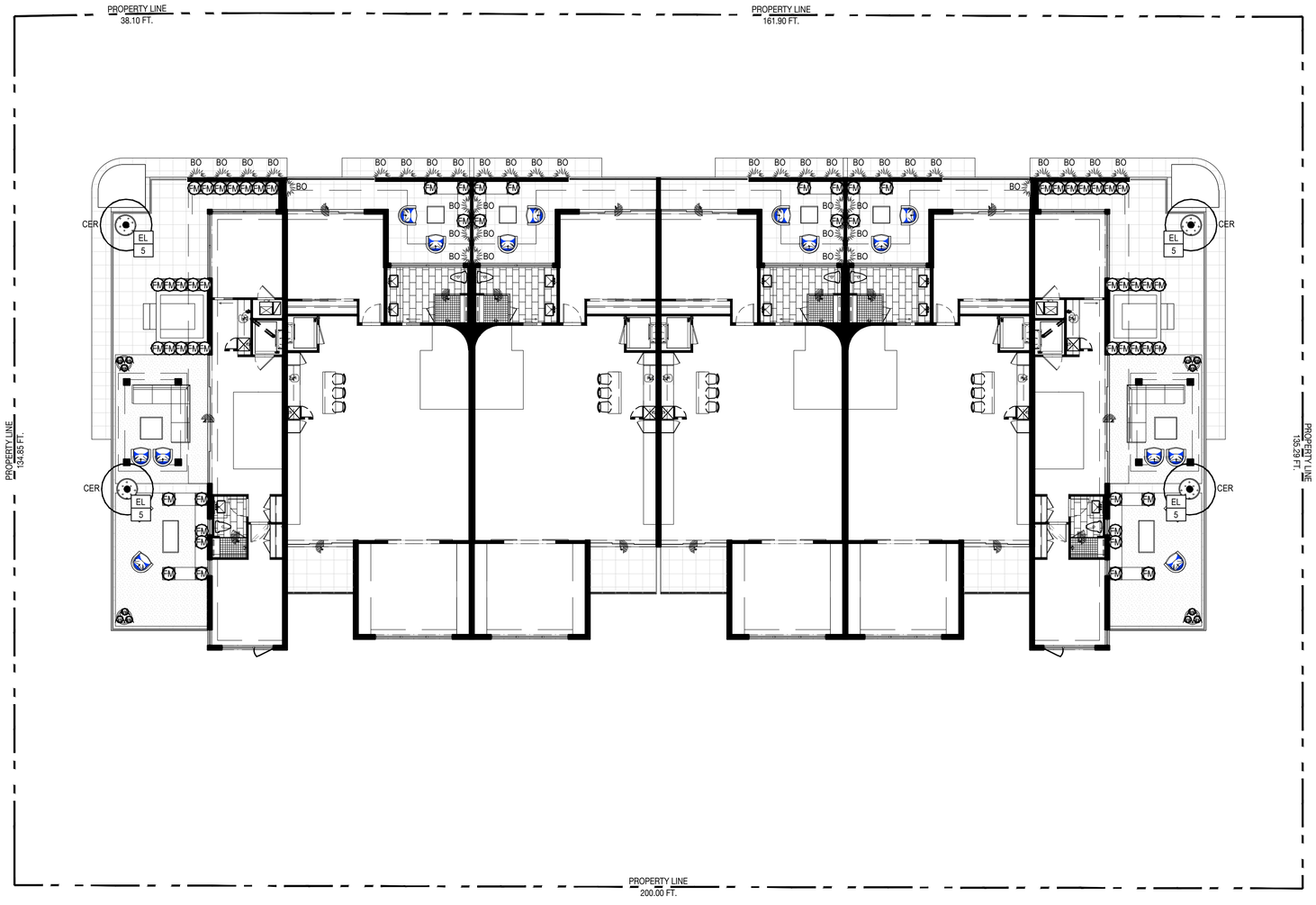


THIRD LEVEL PLANTING SCHEDULE

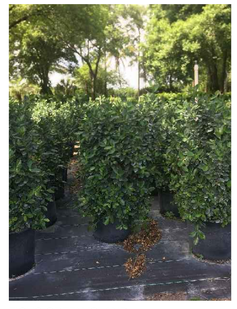
ABR.	QUANTITY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS (AT THE TIME OF PLANTING)	NATIVE	REQUIRED / ORNAMENTAL
TREES						
CER	4	CONOCARPUS ERECTUS 'SERICEUS'	SILVER BUTTONWOOD	45 GAL. MULTI-TRUNK 10 FT. OA. HT.	YES	REQUIRED
SHRUBS						
FM	58	FICUS MICROCARPA 'GREEN ISLAND'	FICUS GREEN ISLAND	15 GAL.	NO	REQUIRED
ACCENTS						
AA	12	AGAVE ATTENUATA	SOFT TIP AGAVE	7 GAL.	NO	REQUIRED
GROUNDCOVERS						
EL	20	ERNODEA LITTORALIS	GOLDEN BEACH CREEPER	3 GAL. 18 IN. O.C.	YES	REQUIRED
VINES						
BO	38	BOUGAINVILLEA 'IMPERIAL THAI DELIGHT'	SAME	7 GAL. TRELLIS	NO	ORNAMENTAL

PLANTING LEGEND

- PROPOSED TREE
- PROPOSED SHRUB / ACCENT
- PROPOSED VINE
- PROPOSED GROUNDCOVER (TYP #)

PLANT REFERENCE IMAGES

SILVER BUTTONWOOD



FICUS GREEN ISLAND

SOFT TIP AGAVE

GOLDEN BEACH CREEPER

BOUGAINVILLEA 'IMPERIAL THAI DELIGHT'

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THIRD LEVEL PLANTING PLAN

DATE	ISSUE
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03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

NORTH

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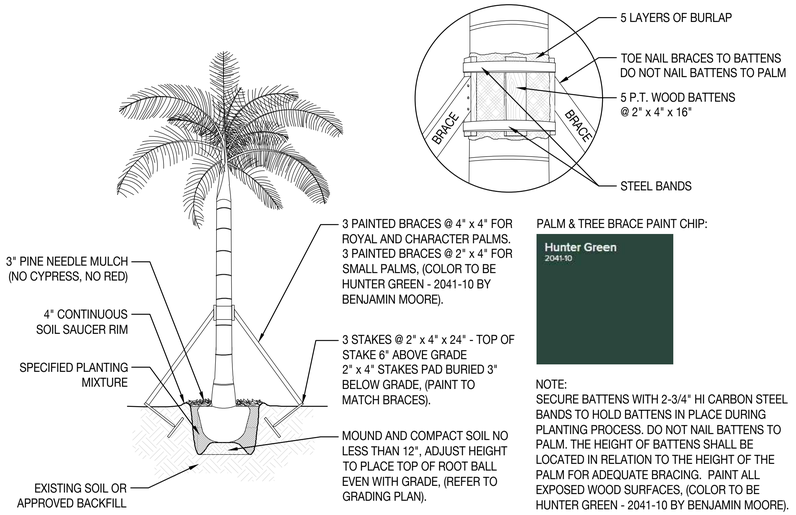
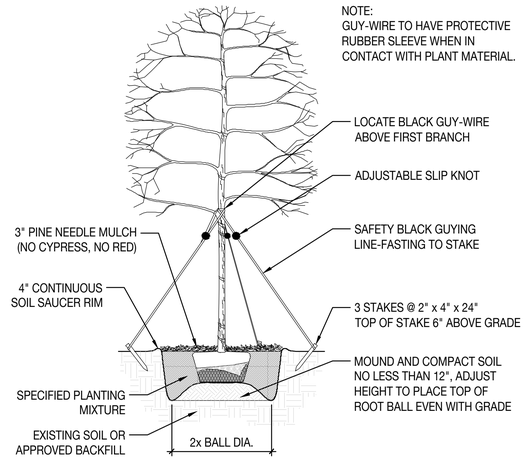
3



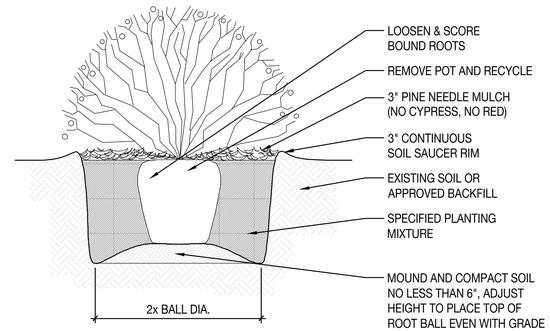
1 PALM PLANTING AND STAKING DETAIL

SCALE: 3/32" = 1'- 0"



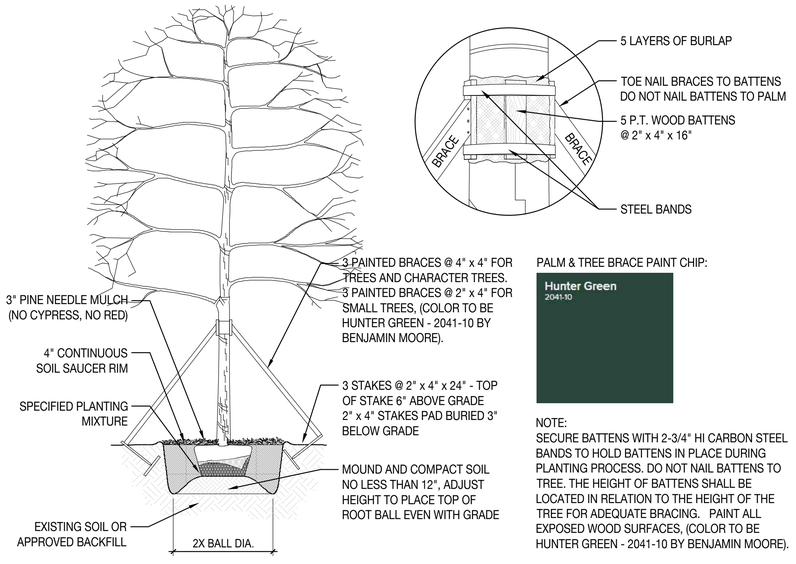
2 UNDERSTORY TREE PLANTING AND STAKING DETAIL

SCALE: 3/32" = 1'- 0"



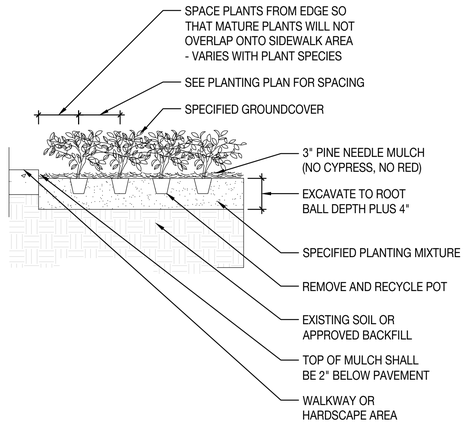
3 SHRUB PLANTING DETAIL

SCALE: 3/32" = 1'- 0"



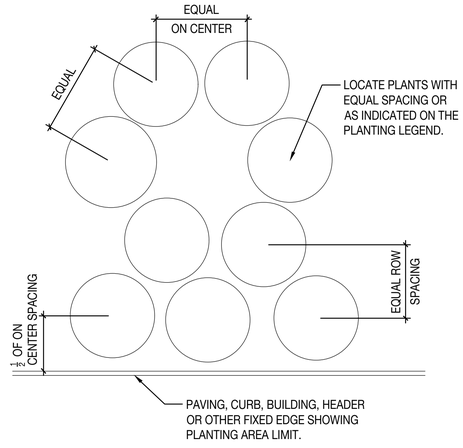
4 TREE PLANTING AND STAKING DETAIL

SCALE: 3/32" = 1'- 0"

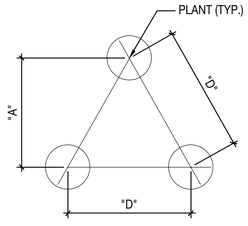


5 GROUND COVER PLANTING DETAIL

SCALE: 3/32" = 1'- 0"



SHRUB SPACING



TRIANGULAR PLANT
SPACING CHART FOR GROUNDCOVERS
AND PERENNIALS

ROW "D"	A
18" O.C.	15" O.C.
24" O.C.	21" O.C.
36" O.C.	31" O.C.

GROUNDCOVER & PERENNIAL SPACING

6 PLANT & SHRUB SPACING DETAIL

SCALE: 3/32" = 1'- 0"

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G.B. BLVD GARDEN

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1236

SEAL (S TYLER NIELSEN - LA6667067)

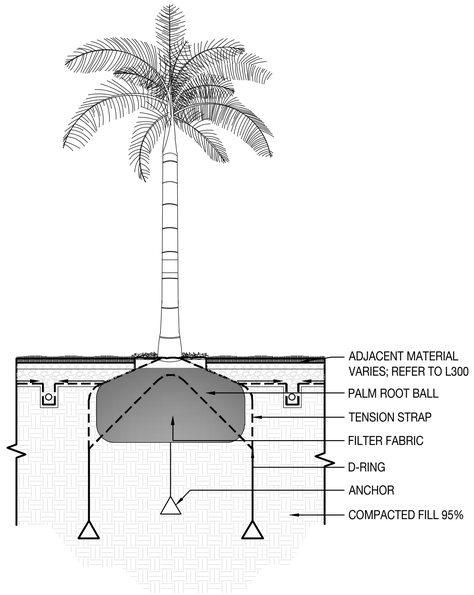
04.11.2022

PLANTING DETAILS

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

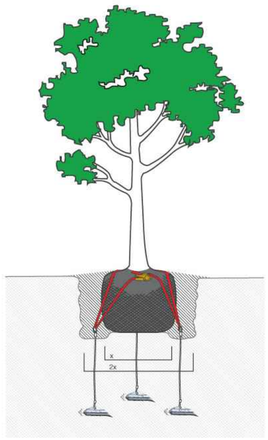
SCALE AS NOTED:

L705

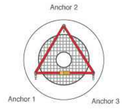


NOTE

1. TO BE USED WHERE TYPICAL WOOD STAKING IS NOT APPLICABLE.
2. FOR PURCHASE INFORMATION REFER TO WEBSITE:
   http://www.earthanchor.com/duckbill/what-is-duckbill/applications/horticulture/



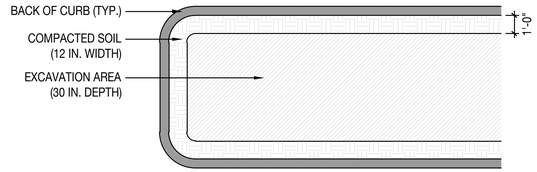
Drive anchors in a triangular pattern in bottom of hole until only the D-rings remain exposed



Pass tension straps through D-ring in each anchor, and back to easy hand ratchet. Tighten and adjust tension strap for best fit. Retighten if necessary.

1 PALM (DUCK BILL STAKING) DETAIL

Scale: 3/32" = 1'- 0"



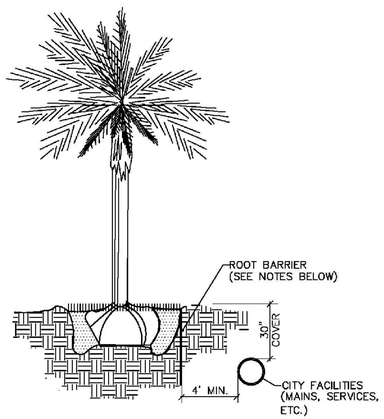
NOTE

1. EXISTING NATIVE SOIL WITHIN ALL LANDSCAPE ISLANDS, INTERIOR LANDSCAPE STRIPS AND PERIMETER LANDSCAPE STRIPS, ADJACENT TO VEHICULAR USE AREAS, SHALL BE EXCAVATED DOWN TO A DEPTH OF THIRTY (30) INCHES BELOW EXISTING GRADE, EXCEPT FOR A 12" BUFFER FROM THE INSIDE OF CURB OR PAVEMENT.
2. A SUITABLE PLANTING SOIL MIXTURE OF FIFTY/FIFTY (50/50), SIXTY/FORTY (60/40) (SAND/TOPSOIL) OR AS OTHERWISE INDICATED BY THE REGISTERED LANDSCAPE ARCHITECT, SHALL EITHER BE BACKFILLED IN PLACE OF THE NATIVE SOIL OR EFFICIENTLY MIXED WITH THE NATIVE SOIL TO CREATE AN OPTIMUM ENVIRONMENT FOR SUCCESSFUL ROOT DEVELOPMENT.
3. IF NATIVE SOIL IS TO BE MIXED, IT SHALL FIRST BE SCREENED TO REMOVE ROCKS AND DEBRIS LARGER THAN ONE-HALF (1/2) INCH IN DIAMETER PRIOR TO MIXING.
4. ALL PROPERTIES UNDER THIS SECTION SHALL BE REQUIRED TO HAVE AN OPEN LANDSCAPE BED INSPECTION PRIOR TO BACKFILLING TO INSURE THE (30) INCH DEPTH HAS BEEN NET. (CITY OF DELRAY BEACH AMD. ORD. 6-12 2/21/12)

2 EXCAVATION DETAIL

Scale: 3/32" = 1'- 0"

2

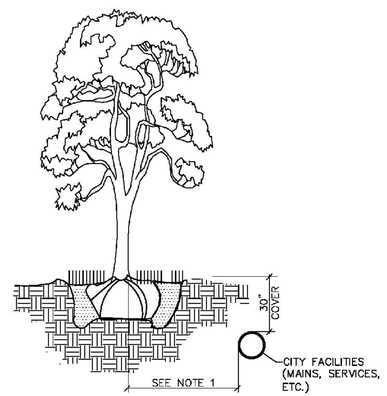


NOTES:

1. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL CITY FACILITIES.
2. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.
3. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.
4. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

3 TYPICAL TREE WITH ROOT BARRIER

Scale: 3/32" = 1'- 0"



NOTES:

1. THIS DISTANCE SHALL BE 10' MINIMUM FROM ALL CITY FACILITIES IF NO ROOT BARRIER IS USED.

4 TYPICAL TREE WITHOUT ROOT BARRIER

Scale: 3/32" = 1'- 0"

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SCALE AS NOTED:

L706

IRRIGATION NOTES

1. THE PLANS AND DRAWINGS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. INSTALL THIS IRRIGATION SYSTEM PER THE SITE CONDITIONS AND AVAILABLE FLOW/PRESSURE. SOME COMPONENTS MAY BE SHOWN OUTSIDE THE WORK AREA FOR CLARITY. THE WORK SHALL BE EXECUTED IN A MANNER TO AVOID CONFLICTS WITH UTILITIES AND OTHER ELEMENTS OF CONSTRUCTION, INCLUDING LANDSCAPE MATERIALS. ALL DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE BEING INSTALLED.

2. THE CONTRACTOR SHALL COMPLY WITH ALL CURRENT LOCAL CODES, ORDINANCES, AND REGULATIONS.

3. ALL IRRIGATION MAINLINE AND LATERAL LINES ARE TO NOT EXCEED A VELOCITY OF 5FPS.

4. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY ASPECT OF THE IRRIGATION SYSTEM AS SHOWN ON THE PLANS AND DRAWINGS, WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DISCREPANCIES EXIST THAT MIGHT NOT HAVE BEEN KNOWN DURING THE DESIGN OF THE IRRIGATION SYSTEM. IN THE EVENT THAT NOTIFICATION OF THE CONFLICT IS NOT APPROVED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS.

5. REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREE ROOT BALLS WHEN INSTALLING IRRIGATION EQUIPMENT. CALL 811 AND REFER TO UTILITY PLANS PRIOR TO TRENCHING.

6. IRRIGATION CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS, INCLUDING UTILITY LOCATIONS BEFORE INSTALLATION OF THE IRRIGATION SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH ALL OTHER CONSTRUCTION ON SITE, ESPECIALLY LANDSCAPE INSTALLATION. THE IRRIGATION SYSTEM SHALL BE RELOCATED AT NO ADDITIONAL COST FOR ANY CONFLICT WITH LANDSCAPE INSTALLATION OR ANY OTHER SITE CONSTRUCTION OR EXISTING CONDITIONS.

7. VERIFY THE MINIMUM STATIC WATER PRESSURE IS AVAILABLE AT THE PROJECT SITE PRIOR TO BEGINNING THE IRRIGATION INSTALLATION. NOTIFY THE IRRIGATION DESIGN CONSULTANT AND LANDSCAPE ARCHITECT IN WRITING IF THE MINIMUM STATIC WATER PRESSURE OR WATER VOLUME IS NOT AVAILABLE.

8. WHERE EXISTING OR NEW TREES, LIGHT FIXTURES, SIGNS, ELECTRONIC CONTROLLERS AND/OR OTHER OBJECTS ARE AN OBSTRUCTION TO AN IRRIGATION SPRINKLER'S PATTERN, THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN PROPER COVERAGE OF AN IRRIGATION SPRINKLER'S PATTERN. THE COMPONENT AND PIPING SHALL BE RELOCATED AS NECESSARY TO OBTAIN THE PROPER COVERAGE WITHOUT DAMAGING THE OBSTRUCTION.

9. 100% HEAD TO HEAD COVERAGE IS REQUIRED. ASSURE THAT ANY MODIFIED SPACING DOES NOT EXCEED THE SPACING SHOWN IN THE PLANS.

11. IRRIGATION CONTRACTOR SHALL ADJUST ALL SPRINKLERS TO AVOID OVER SPRAY ONTO IMPERVIOUS AREAS.

12. ALL MATERIALS AND EQUIPMENT SHOWN SHALL BE NEW. IF THE DRAWINGS DO NOT THOROUGHLY DESCRIBE THE TECHNIQUES TO BE USED, THE INSTALLER SHALL FOLLOW THE INSTALLATION METHODS AND INSTRUCTIONS RECOMMENDED BY THE PRODUCT MANUFACTURER.

13. THE LOCATION OF THE IRRIGATION MAINLINE SHALL BE IDENTIFIED IN THE FIELD AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.

14. CONTRACTOR IS TO SUBMIT PRODUCT SPECIFICATION SHEETS FOR ALL IRRIGATION EQUIPMENT TO BE USED FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

15. THE QUANTITIES SHOWN IN THE LEGEND SHEETS SHALL NOT BE USED FOR BIDDING PURPOSES. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONDUCTING A COMPREHENSIVE MATERIALS TAKEOFF TO DETERMINE THE ACTUAL QUANTITIES OF MATERIAL NECESSARY TO EXECUTE THE WORK DESCRIBED IN THE DOCUMENTS.

16. ALL TRENCHES SHALL BE BACKFILLED WITH CLEAN DEBRIS-FREE MATERIALS.

17. IRRIGATION CONTRACTOR IS TO INSTALL CHRISTY ZONE TAGS WITH THE CORRESPONDING CONTROLLER ZONE NUMBER AT EACH CONTROL VALVE.

18. AS BUILT DOCUMENTS ARE TO BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT. THE MAINLINE, CONTROL VALVES, ISOLATION VALVES, GROUND RODS AND SPLICE BOXES SHALL BE LOCATED WITH A MEASUREMENT FROM TWO FIXED POINTS.

19. IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF ON-SITE OPERATIONS.

20. A MAINLINE PRESSURE TEST IS TO BE CONDUCTED BEFORE BACKFILLING. ALL FINDINGS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT WITHIN TWENTY FOUR HOURS POST TEST.

21. ALL SLEEVES ARE TO BE TWO TIMES THE SIZE OF THE PIPE. COORDINATE ALL SLEEVES WITH THE APPROPRIATE CONTRACTOR PRIOR TO CONSTRUCTION. NOT ALL NECESSARY VERTICAL SLEEVES MAY BE SHOWN ON THESE PLANS. FIELD VERIFY. ALL SLEEVE LOCATIONS ARE TO BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION.

22. THE IRRIGATION INSTALLER IS TO INSTALL THIS SYSTEM PER THE AVAILABLE FLOW AND PRESSURE AT THE SITE. FIELD ADJUST AS NECESSARY.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PRECIP
1	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	23.91	2.57 in/h
2	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	10.00	2.64 in/h
3	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	19.56	2.65 in/h
4	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	8.94	2.38 in/h
5	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	14.39	2.31 in/h
6	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	18.07	2.71 in/h
7	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	16.05	2.54 in/h
8	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	18.01	2.72 in/h
9	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	22.01	2.7 in/h
10	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	7.96	3.83 in/h
11	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	22.50	2.31 in/h
12	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	10.43	2.79 in/h
13	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	8.83	1.76 in/h
14	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	15.19	2.26 in/h
15	RAIN BIRD PEB-PRS-D	1"	SHRUB SPRAY	18.02	2.49 in/h
16	RAIN BIRD PEB-PRS-D	1"	TURF SPRAY	10.82	1.95 in/h

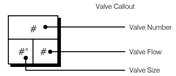
*THE IRRIGATION CONTRACTOR IS TO SET THE RUN TIMES FOR EACH ZONE TO MATCH THE PLANT WATER REQUIREMENTS, PLANTER CAPACITIES, SITE CONDITIONS AND MICRO-CLIMATE FACTORS. SEE THE LANDSCAPE PLANS FOR PLANT SPECIFICATIONS.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
2Q 2H 2F 4Q 4H 4F	RAIN BIRD 1806-U-PRS SQ SERIES TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	4	30
Q T H F	RAIN BIRD 1806-U-PRS U8 SERIES TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	24	30
Q T H F	RAIN BIRD 1806-U-PRS U10 SERIES TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	4	30
08HE-VAN 12HE-VAN 10HE-VAN 15HE-VAN	RAIN BIRD 1806-U-PRS HE-VAN SERIES TURF SPRAY 6" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. PRESSURE REGULATING.	17	30
2Q 2H 2F 4Q 4H 4F	RAIN BIRD 1812-PRS-U SQ SERIES SHRUB SPRAY, 12" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. WITH PRESSURE REGULATING DEVICE.	108	30
EST LCS RCS CST SST	RAIN BIRD 1812-PRS-U 15 STRIP SERIES SHRUB SPRAY, 12" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. WITH PRESSURE REGULATING DEVICE.	62	30
Q T H F	RAIN BIRD 1812-PRS-U U8 SERIES SHRUB SPRAY, 12" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. WITH PRESSURE REGULATING DEVICE.	64	30
Q T H F	RAIN BIRD 1812-PRS-U U10 SERIES SHRUB SPRAY, 12" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. WITH PRESSURE REGULATING DEVICE.	39	30
Q T H H TO F	RAIN BIRD 1812-PRS-U U12 SERIES SHRUB SPRAY, 12" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. WITH PRESSURE REGULATING DEVICE.	12	30
08 HE-VAN 12 HE-VAN 10 HE-VAN 15 HE-VAN	RAIN BIRD 1812-PRS-U HE-VAN SERIES SHRUB SPRAY, 12" POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2" NPT FEMALE THREADED INLET. WITH PRESSURE REGULATING DEVICE.	73	30
1401 1402 1404 1408	RAIN BIRD 1800-1400 FLOOD FIXED FLOW RATE (0.25-2.0GPM), FULL CIRCLE BUBBLER, 1/2" FIPT.	96	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.	16	
	LANDSCAPE PRODUCTS INC. BGV 1/2", 3/4", 1", 1-1/4", 1-1/2", 2", 2-1/2", 3", 4" BRASS GATE VALVE. THREADED BONNET, NON-RISING STEM, PRESSURE RATED TO 200 PSI. SAME SIZE AS MAINLINE.	2	
BF	ZURN 720A 1" PRESSURE VACUUM BREAKER	1	
C	RAIN BIRD ESP4ME3 WITH (1) ESP-SM3 (2) ESP-SM6 19 STATION, HYBRID MODULAR OUTDOOR CONTROLLER. FOR RESIDENTIAL OR LIGHT COMMERCIAL USE. LNK WIFI MODULE AND FLOW SENSOR READY.	1	
RS	RAIN BIRD RSD-BEX RAIN SENSOR, WITH METAL LATCHING BRACKET, EXTENSION WIRE.	1	
POC	POINT OF CONNECTION 1 1/2" - CONNECT DOWNSTREAM OF THE IRRIGATION METER PROVIDED BY OTHERS.	1	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	2,857 L.F.	
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	637.4 L.F.	
	PIPE SLEEVE: PVC SCHEDULE 40	425.5 L.F.	

Valve Callout



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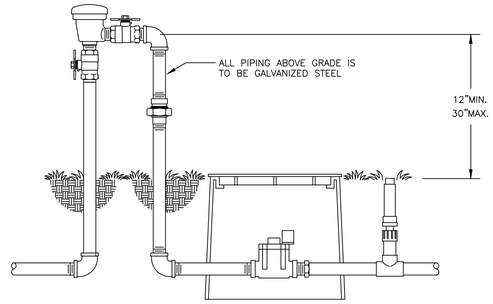
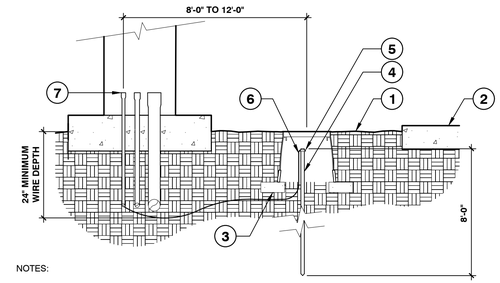


DIRECTION OF FLOW

1 WILKINS MODEL 720A PRESSURE VACCUM BREAKER

N.T.S 328409.43-06



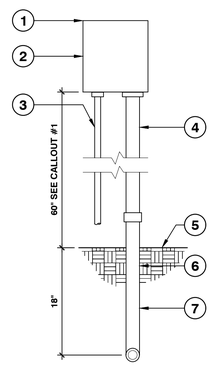
NOTES:

1. ALL GROUNDING REQUIREMENTS FOR CONTROLLERS SHALL CONFORM TO LOCAL ELECTRIC CODES.
2. GROUNDING ROD SHALL NOT BE LOCATED IN THE SAME TRENCH AS IRRIGATION MAINLINES OR LATERAL LINES.
3. VALVE BOX SHALL BE WRAPPED WITH A MINIMUM 3 MIL THICK PLASTIC AND SECURED TO THE VALVE BOX USING DUCT TAPE OR ELECTRICAL TAPE.
4. INSTALL GROUNDING ROD PER THE CONTROLLER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

1. FINISH GRADE
2. PAVEMENT
3. THREE (3) 4" x 8" BRICKS
4. 5/8" x 8'-0" COPPER GROUNDING ROD
5. GROUNDING ROD CLAMP
6. #6 AWG BARE COPPER WIRE
7. 1/2" PVC ELECTRICAL CONDUIT AND SWEEP FOR EARTH GROUND

2 GROUNDING ROD

1" = 1'-0" FX-IR-FX-AUXEQ-01



1. SET CONTROLLER 60" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED
2. CONTROLLER AS SPECIFIED, SECURELY BOLTING CONTROLLER TO WALL OR AS PER MANUFACTURER SPECIFICATIONS. INSTALL BACKUP BATTERIES AS REQUIRED. GROUND AS PER MANUFACTURER SPECIFICATIONS
3. 1/2" DIAMETER RIGID STEEL CONDUIT FOR 110VAC ELECTRICAL SOURCE. INSTALL AS PER LOCAL ELECTRICAL CODES
4. 1-1/2" DIAMETER RIGID STEEL CONDUIT FOR RCV WIRES
5. FINISHED GRADE
6. LONG SWEEP ELL
7. USE PVC SCH. 40 BELOW GRADE

3 WALL MOUNT CONTROLLER

1" = 1'-0" FX-IR-FX-CONT-06

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03.16.2022

IRRIGATION NOTES, SCHEDULE & DETAILS

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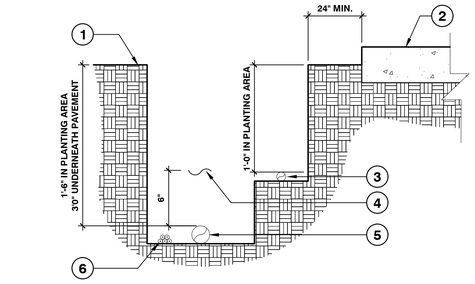
L800

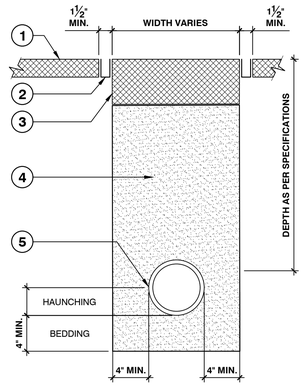


NOTES:

1. SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.
2. DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT IF REQUIRED.
3. 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.
4. DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

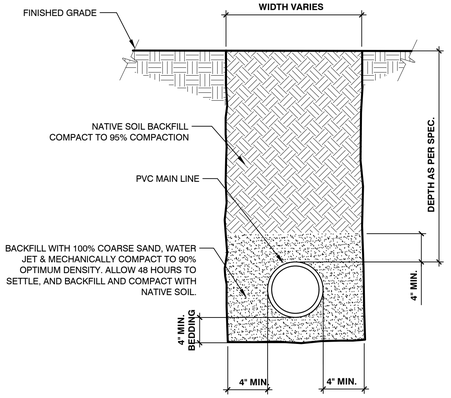
1 IRRIGATION TRENCHING

1 1/2" = 1'-0" FX-IR-FX-AUXEQ-08



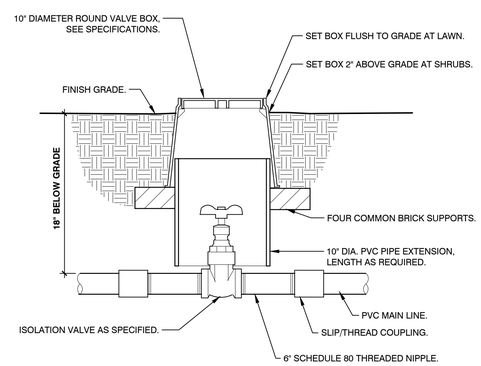
2 TRENCH DETAIL AT ASPHALT PAVING

1 1/2" = 1'-0" FX-IR-FX-AUXEQ-12



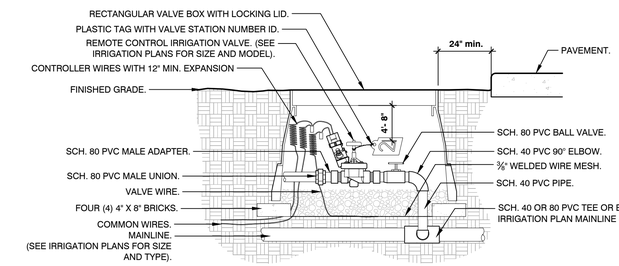
3 SLEEVE AT ROAD

1 1/2" = 1'-0" FX-IR-FX-AUXEQ-15



4 BRASS ISOLATION VALVE

1 1/2" = 1'-0" FX-IR-FX-ISOV-01



NOTE:
1- LOCATE VALVE BOX WITHIN 24" OF PAVEMENT EDGE IN PLANTING AREA WHERE EASILY ACCESSIBLE WHENEVER POSSIBLE.

2- COMMON WIRE AND CONTROLLER WIRE SHALL BE DIRECT BURIAL 14 AWG OR LARGER. COLOR: COMMON (WHITE), CONTROLLER WIRE FOR TURF (BLUE), AND CONTROLLER WIRE FOR SHRUBS (RED). (SEE SPECIFICATIONS FOR 2-WIRE CONTROLLERS).

3- ALL WIRE RUNS SHALL BE CONTINUOUS WITHOUT ANY SPLICES UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. SEE SPLICE BOX DETAIL. WIRE CONNECTIONS SHALL BE MADE USING DBR/Y-6 CONNECTORS OR APPROVED EQUAL.

4-VALVE BOX SHALL BE WRAPPED WITH MIN. 3 MIL THICK PLASTIC AND SECURE IT USING DUCT TAPE OR ELECTRICAL TAPE.

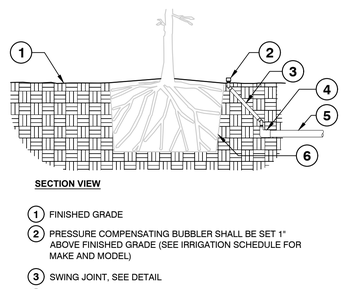
5- MAINLINES 4" OR LARGER SHALL USE SADDLES AT THE CONNECTIONS POINTS TO THE IRRIGATION VALVE. (SEE SPECIFICATIONS FOR IRRIGATIONS SADDLES).

6- ALL SCH. 80 PVC TO SCH. 40 PVC THREADED CONNECTIONS SHALL BE MADE USING TEFLON TAPE.

7- VALVE BOXES SHALL BE LOCATED IN PLANTING AREAS.

5 REMOTE CONTROL IRRIGATION VALVE

1 1/2" = 1'-0" FX-IR-FX-RCV-02

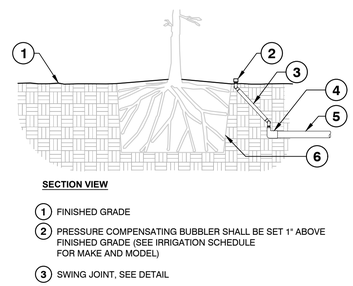


NOTES:

1. ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS SPECIFIED OTHERWISE.
2. ALL THREADED CONNECTIONS FROM SCH. 40 TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE.
3. CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AND EDGE OF THE ROOT BALL SO THAT ALL IRRIGATION FLOWS THROUGH THE ROOT BALL.

6 IRRIGATION BUBBLER W/ LAYOUT

3/4" = 1'-0" FX-IR-FX-BUBB-04

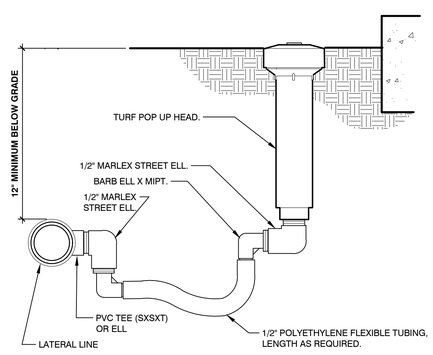


NOTES:

1. ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS SPECIFIED OTHERWISE.
2. ALL THREADED CONNECTIONS FROM SCH. 40 TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE.
3. CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AND EDGE OF THE ROOT BALL SO THAT ALL IRRIGATION FLOWS THROUGH THE ROOT BALL.

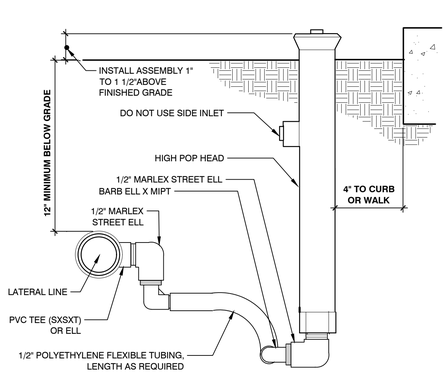
7 IRRIGATION BUBBLER (2) W/ LAYOUT

3/4" = 1'-0" FX-IR-FX-BUBB-01



8 TURF SPRAY FLEX ASSEMBLY

3" = 1'-0" FX-IR-FX-HEAD-04



9 SHRUB SPRAY HIGHPOP W/FLEX ASSEMBLY

3" = 1'-0" FX-IR-FX-HEAD-08

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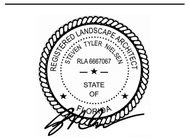

03.16.2022

IRRIGATION DETAILS

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2

L801

THE IRRIGATION CONTRACTOR IS TO COORDINATE THE PROPOSED SLEEVES WITH THE APPROPRIATE CONTRACTORS PRIOR TO CONSTRUCTION (TYP.) SOME SLEEVES MAY NOT BE SHOWN ON THIS PLAN. THE IRRIGATION CONTRACTOR IS TO FIELD VERIFY ALL NECESSARY SLEEVES TO PROVIDE IRRIGATION TO ALL LANDSCAPED AREAS (TYP.) INSTALL CHECK VALVES TO PREVENT LOW HEAD DRAINAGE WHEN WATER LINES ARE INSTALLED VERTICALLY.

INSTALL ALL IRRIGATION EQUIPMENT TO AVOID CONFLICTS WITH TREE INSTALLATION AND EXISTING TREES TO REMAIN. THE IRRIGATION MAINLINE, LATERAL LINE, AND IRRIGATION SPRINKLER LOCATIONS ARE SHOWN SCHEMATICALLY AND SHALL BE ADJUSTED BASED ON FIELD CONDITIONS. ALL LANDSCAPED AREAS ARE TO RECEIVE 100% COVERAGE BY THE IRRIGATION SYSTEM (TYP.)

IRRIGATION WATER POINT OF CONNECTION
CONNECT TO THE 1" SUPPLY LINE DOWNSTREAM OF THE IRRIGATION WATER METER PROVIDED BY THE CIVIL ENGINEER. THE WATER METER IS TO SUPPLY A MINIMUM OF 25GPM AT 50PSI. SEE THE CIVIL PLANS FOR THE EXACT LOCATION. VERIFY LOCATION IN THE FIELD PRIOR TO INSTALLATION. THIS IRRIGATION CONTRACTOR IS TO COMPLETE A DYNAMIC AND STATIC PRESSURE TEST PRIOR TO CONSTRUCTION. ADJUST THE ZONE FLOWS PER THE RESULTS. THE IRRIGATION CONTRACTOR IS TO NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION IF THE REQUIRED PRESSURE OR FLOW IS NOT AVAILABLE ON THE DOMESTIC WATER LINE.

BACKFLOW PREVENTER
IRRIGATION BACKFLOW PREVENTER. IRRIGATION INSTALLER TO FOLLOW LOCAL CODES. VERIFY LOCATION IN THE FIELD BEFORE INSTALLATION.

COORDINATE PENETRATION POINTS AND SLEEVES WITH THE WALL & HARDSCAPE CONTRACTORS PRIOR TO CONSTRUCTION (TYP.) INSTALL CHECK VALVES TO PREVENT LOW HEAD DRAINAGE.

IRRIGATION CONTROLLER
TO BE MOUNTED AT EYE LEVEL ON THE EXTERIOR WALL OF THE BUILDING. BEFORE INSTALLATION VERIFY MOUNT LOCATIONS IN THE FIELD. 120VAC, 1.0 AMP, ELECTRIC POWER SUPPLY PROVIDED BY THE BUILDING ELECTRICAL CONTRACTOR. ROUTE A 2" CONDUIT WITH CONTROL WIRES FROM THE CONTROLLER TO THE MAINLINE TRENCH. MOUNT THE RAIN SENSOR ABOVE ALL OVERHEAD OBSTRUCTIONS.

THE IRRIGATION CONTRACTOR IS TO SET THE RUN TIMES FOR EACH ZONE TO MATCH THE PLANT WATER REQUIREMENTS, SITE CONDITIONS AND MICRO-CLIMATE FACTORS. SEE THE LANDSCAPE PLANS FOR PLANT SPECIFICATIONS.

COORDINATE PENETRATION POINTS AND SLEEVES WITH THE WALL & HARDSCAPE CONTRACTORS PRIOR TO CONSTRUCTION (TYP.) INSTALL CHECK VALVES TO PREVENT LOW HEAD DRAINAGE.

COORDINATE PENETRATION POINTS AND SLEEVES WITH THE WALL & HARDSCAPE CONTRACTORS PRIOR TO CONSTRUCTION (TYP.) INSTALL CHECK VALVES TO PREVENT LOW HEAD DRAINAGE.

THESE PLANS ARE DIAGRAMMATIC OF THE WORK TO BE PERFORMED. ALL LANDSCAPED AREAS ARE TO RECEIVED 100% COVERAGE. INSTALL THIS IRRIGATION SYSTEM PER THE SITE CONDITIONS, AVAILABLE FLOW/PRESSURE AND MANUFACTURERS RECOMMENDATIONS.

811
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SEAL (S TYLER NIELSEN - LA6667067)

STEVEN TYLER NIELSEN
RLA 6667067

03.16.2022

IRRIGATION PLAN

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2

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LIGHTING SCHEDULE

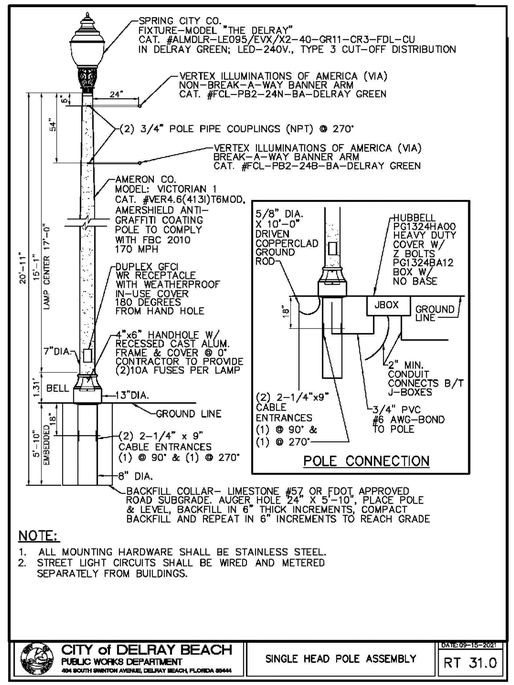
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
▼	SA	3	Spring City Electrical Manufacturing Co	DLR-LE095-X2-40-CR3-GR18	n/a	n/a	1	DLR-LE095-X2-40-CR3-GR18.ies	9016	1	95
■	SD	20	AURORA LIGHT	LMG1 2.5 WATT	3-1/2"L. X 1-1/4"W. X 18"H. LED FIXTURE FROSTED LENS		1	L06131610.IES	107	0.86	3.31
●	SB	4	Lithonia Lighting	RADPT P1 30K SYM	RADEAN Post-Top with P1 3000K Symmetric distribution		1	RADPT_P1_30K_SYM .ies	3189	0.86	25.4134
●	SC	2	Lithonia Lighting	RADPT P1 30K SYM HS	RADEAN Post-Top with P1 3000K Symmetric distribution with house-side shield		1	RADPT_P1_30K_SYM _HS.ies	2849	0.86	25.4134
⊙	EX	0	American Electric Lighting	125 40S R3 DG	125 SERIES, 400W HPS TYPE 3 MED CUTOFF	ONE 4000-WATT CLEAR E18 HIGH PRESSURE SODIUM, HORIZONTAL POS.	1	125_40S_R3_DG.ies	50000	0.88	460

2

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
DRIVEWAYS (in R.O.W.)		4.4 fc	5.6 fc	2.6 fc	2.2:1	1.7:1
DRIVEWAYS (ON SITE)		2.1 fc	4.4 fc	0.8 fc	5.5:1	2.6:1
EAST PROP LINE (HORIZ)	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
EAST PROP LINE (VERT)	+	0.1 fc	0.7 fc	0.0 fc	N/A	N/A
NORTH SIDEWALK	+	0.7 fc	1.0 fc	0.4 fc	2.5:1	1.8:1
SOUTH SIDEWALK	+	3.7 fc	5.9 fc	1.2 fc	4.9:1	3.1:1
STREET	+	2.2 fc	4.7 fc	0.6 fc	7.8:1	3.7:1
WALKWAYS		1.7 fc	15.7 fc	0.1 fc	157.0:1	16.9:1
WEST PROP LINE (HORIZ)	+	0.0 fc	0.1 fc	0.0 fc	N/A	N/A
WEST PROP LINE (VERT)	+	0.1 fc	0.7 fc	0.0 fc	N/A	N/A

2



NOTE:

1. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
2. STREET LIGHT CIRCUITS SHALL BE WIRED AND METERED SEPARATELY FROM BUILDINGS.

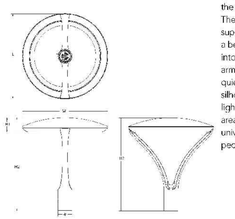
CITY of DELRAY BEACH PUBLIC WORKS DEPARTMENT 434 SOUTH SWINTON AVENUE, DELRAY BEACH, FLORIDA 33444	SINGLE HEAD POLE ASSEMBLY	DATE:09-15-2021 RT 31.0

Radean Post Top
LED Area Luminaire

Buy American

Specifications

EPA:	1.02 ft² (0.105 m²)
Length:	24" (61cm)
Width:	24" (61cm)
H1 Luminaire Height:	4" (10.16cm)
H2 Luminaire Height:	26" (66.04cm)
Weight:	38lbs (17.24kg)



Introduction

The architecturally-inspired shape of the RADEAN™ post top area luminaire embodies the grace and strength of the RADEAN family. The twin copper-core cast aluminum arms support the slender superstructure, creating a beautiful sculpture by day transforming into a beacon of comfort by night. Triangular arms redirect reflection maintaining its visually quiet appearance. With sleek lines and simple silhouettes, these LED luminaires use specialized lighting and visual comfort to transform common areas like courtyards, outdoor retail locations, universities and corporate campuses into pedestrian-friendly nighttime environments.

Ordering Information — **EXAMPLE:** RADPT LED P3 30K SYM MVOLT PT4 PIR DNAXD

RADPT LED

Series	Performance package	Color temperature	Distribution	Voltage	Mounting (required)
RADPT LED	P1 3,000 lumens P2 5,400 lumens P3 7,000 lumens P4 10,000 lumens P5 12,000 lumens	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K 5000K	SYM Symmetric (all) ASY Asymmetric (side) PATH Pathway (low)	MVOLT 277 120 347 208 480 240	PT4* Pendant (3" tenon adapter) RADPT20 Universal 2-3/8" tenon adapter RADPT25 Universal 2-3/8" tenon adapter

Control options	Other options		Finish (required)	
Shipped installed	SF Single fuse	**Shipped installed**	DDBXD Dark bronze	DBLXD Black
NLTAIR2 nLight AIR enabled	DF Double fuse	HS House-side shield	DBTXD Textured dark bronze	DNATXD Textured natural aluminum
PIR Passive infrared sensor, 8-15' mounting height, ambient sensor enabled at 5fc default			DNAXD Natural aluminum	DWHXD Textured white
PE Photocell, button type			DWHGXD Textured white	
DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)				

auroralight.

TYPE
CAT # LMG1-90-

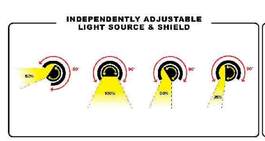
LMG1-90 MAGLIO

The **LMG1-90** is a versatile high-quality, high-performance path light. The Maglio features a rotational glare shield, allowing you to seamlessly adjust the aperture from 180° to 0°. Also ideal for wall-washing applications.

See LMG3 and LMG1-AF for additional size and wattage options.

Features include:

- 3 Watts
- Cree XLAMP® (XP-G) LED
- 2700K (80 & 90 CRI) or 3000K (80 CRI), or Amber 585-595nm
- Thermally Integrated® LED Module
- 12V Integral Driver, Dimmable to <10% typ.
- Compatible w/ 12V AC/DC ELV or MLV Transformers
- Solid Copper and Brass Construction



COPPER CORE TECHNOLOGY®

Copper Core® is a registered trademark of Auroralight. It is synonymous with the mark of quality and integrity. It means that our products are built upon a superior fabrication of Sol-E Copper, ensuring every critical part functions seamlessly together. To comply with global RoHS requirements, every component to this next Auroralight manufactured without compromise, engineered with passion, in the USA.

12V

Powered by CREE LEDs

SEE NEXT PAGE FOR ORDERING INFORMATION

SEAL (S TYLER NIELSEN - LA6667067)

REGISTERED LANDSCAPE ARCHITECT
STEPHEN TYLER NIELSEN
FLA 6667067
STATE OF FLORIDA

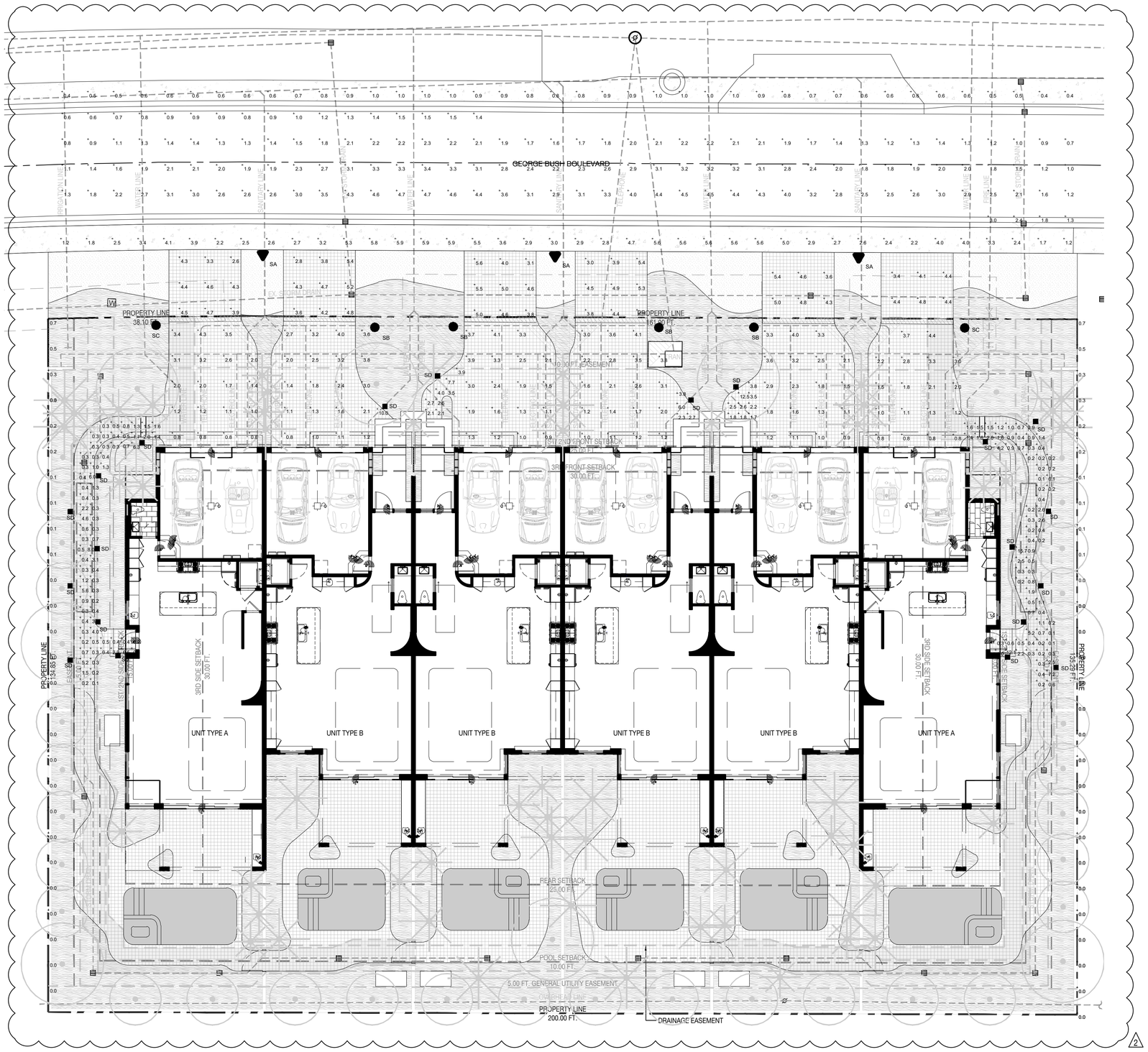
04.11.2022

LIGHTING SCHEDULE & DETAILS

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

SCALE AS NOTED:

L900



LIGHTING SCHEDULE		
Symbol	Label	Quantity
▼	SA	3
■	SD	20
●	SB	4
●	SC	2
⊙	EX	0

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04.11.2022

PHOTOMETRIC LIGHTING PLAN

DATE	ISSUE
09.15.2021	SPRAB SUBMITTAL
01.07.2022	TAC REVIEW
03.16.2022	TAC REVIEW 2
04.11.2022	TAC REVIEW 3

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