

SUMMARY OF WORK

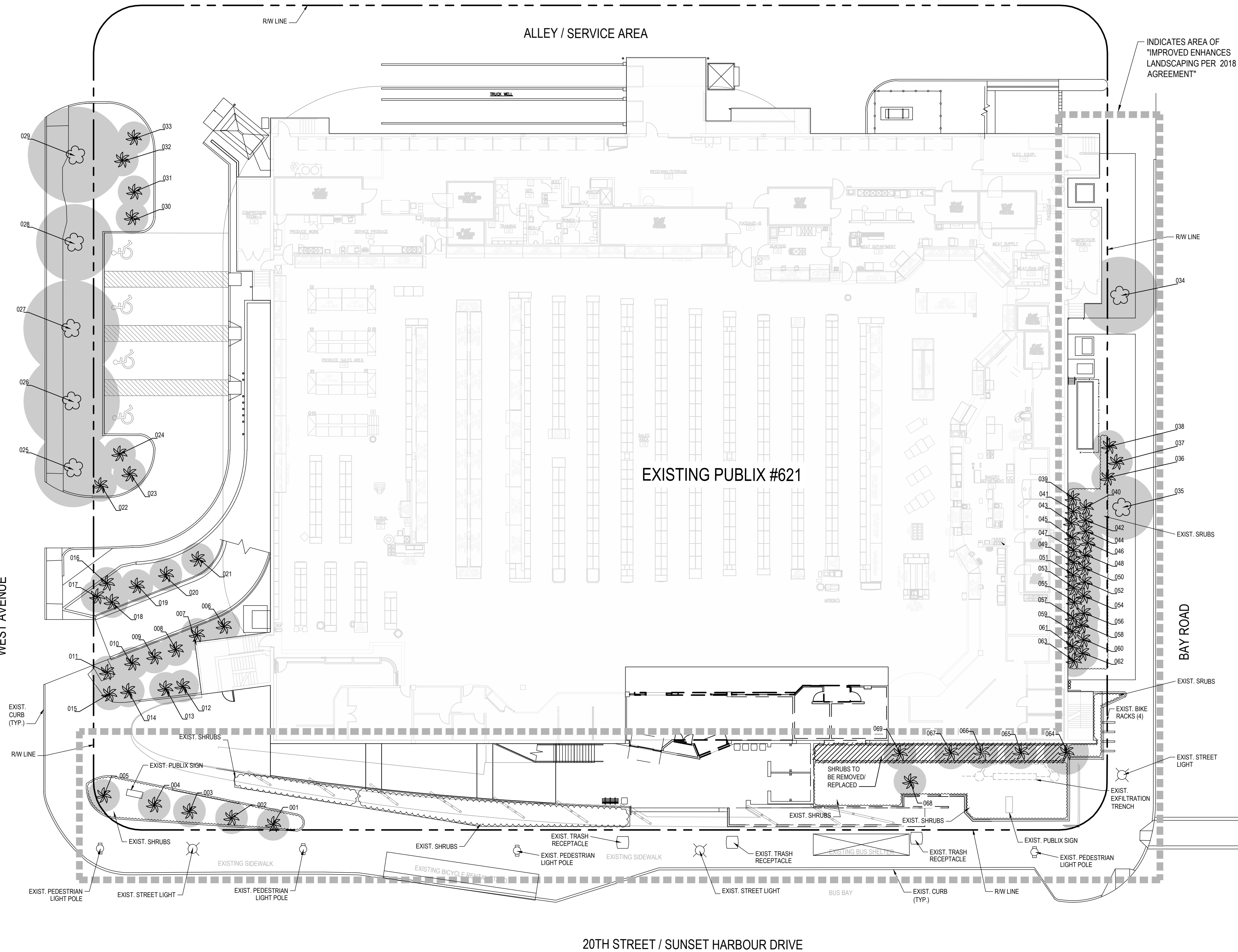
1. IT IS THE INTENT OF THESE DRAWINGS TO PROVIDE LANDSCAPE MODIFICATIONS FOR A PORTION OF THE EXISTING SITE INSTALLATIONS AS INDICATED ON THE PLAN BELOW.
2. ALL LANDSCAPE WORK SHALL BE COORDINATED WITH ARCHITECTURAL AND OTHER DISCIPLINES AS REQUIRED THROUGHOUT DURATION OF WORK.

TREE DISPOSITION NOTES

1. ALL TREE REMOVAL, TREE PRUNING, TREE RELOCATION AND PLANTING WORK SHALL BE PERFORMED IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION, INCLUDING MIAMI-DADE COUNTY, CITY OF MIAMI BEACH AND LATEST ANSI A300 STANDARDS.
2. SEE SURVEY FOR ADDITIONAL SITE INFORMATION.
3. CONTRACTOR SHALL PROTECT ALL EXISTING PAVEMENTS, FENCING, VEGETATION, SOD, UTILITIES, IRRIGATION EQUIPMENT, AND OTHER SITE INFRASTRUCTURE INDICATED TO REMAIN WITHIN WORK AREAS FROM DAMAGE DURING PROGRESS OF WORK; AND SHALL RESTORE OR REPLACE ALL SUCH ITEMS DAMAGED DURING PROGRESS OF WORK TO MATCH EXISTING.
4. ALL EXISTING TREES, PALM AND SHRUBS ARE DEEMED TO BE IN GOOD CONDITION AND SHALL BE PROTECTED DURING CONSTRUCTION THROUGH THE USE OF PROTECTIVE BARRIERS IN ACCORDANCE WITH ALL CITY OF MIAMI BEACH REQUIREMENTS UNLESS OTHERWISE INDICATED ON PLAN. ANY DISCREPANCIES ENCOUNTERED IN THE FIELD SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT OR PROJECT MANAGER IN WRITING IMMEDIATELY.
5. PROTECTIVE BARRIERS SHALL BE PLACED AT THE DRIP LINE OF EACH TREE, CLUSTER OF TREES, OR PRESERVATION AREA, AND IN NO CASE LESS THAN TEN FEET FROM THE TRUNK OF ANY PROTECTED TREE, TREE CLUSTER OR PRESERVATION AREA. PROTECTIVE BARRIERS SHALL BE A MINIMUM OF FOUR FEET ABOVE GROUND LEVEL AND SHALL BE CONSTRUCTED OF WOOD, PLASTIC OR METAL, AND SHALL REMAIN IN PLACE UNTIL DEVELOPMENT IS COMPLETED. PROTECTIVE BARRIERS SHALL BE IN PLACE PRIOR TO THE START OF ANY CONSTRUCTION.
6. ONLY CLEARING BY HAND IS PERMISSIBLE WITHIN THE DRIPLINE OF TREES DESIGNATED FOR PRESERVATION. THE ROOT SYSTEMS OF TREES SHALL BE PROTECTED AT ALL TIMES. IF ROOTS ARE EXPOSED, THE CONTRACTOR SHALL PROVIDE TEMPORARY EARTH COVER MIXED WITH PEAT MOSS AND WRAPPED WITH BURLAP TO PREVENT EXPOSED ROOTS FROM DRYING OUT BEFORE PERMANENT BACKFILL IS PLACED. THE CONTRACTOR SHALL ALSO WATER, MAINTAIN IN MOIST CONDITION, AND OTHERWISE TEMPORARILY SUPPORT AND PROTECT THE TREE OR ROOT FROM DAMAGE UNTIL THE TREE OR ROOT IS PERMANENTLY COVERED WITH EARTH.
7. NO EXCESS OIL, FILL, EQUIPMENT, BUILDING MATERIALS OR BUILDING DEBRIS SHALL BE PLACED WITHIN THE AREAS SURROUNDED BY PROTECTIVE BARRIERS. NOR SHALL THERE BE DISPOSAL OF ANY WASTE MATERIAL SUCH AS PAINTS, OILS, SOLVENTS, ASPHALT, CONCRETE, MORTAR OR ANY OTHER MATERIAL HARMFUL TO TREES OR UNDERSTORY PLANTS WITHIN THE AREAS SURROUNDED BY PROTECTIVE BARRIERS.
8. CONTRACTOR SHALL PROTECT AND MAINTAIN PROTECTED TREES AND PALMS IN A HEALTHY GROWING CONDITION FOR A PERIOD OF AT LEAST ONE (1) YEAR. CONTRACTOR SHALL PROVIDE MAINTENANCE AS MAY BE REQUIRED; INCLUDING STAKING, WATERING, AND PRUNING TO ENSURE OVERALL HEALTH OF TREES.
9. ANY TREE OR PALM THAT SHOULD DIE, OR IS OTHERWISE FOUND TO BE UNACCEPTABLE TO THE LANDSCAPE ARCHITECT/ OWNER WITHIN THE REQUIRED MAINTENANCE PERIOD AFTER FINAL INSTALLATION, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR WITH EQUAL OR BETTER PLANT MATERIAL; AND THE SITE SHALL BE RESTORED AT NO ADDITIONAL COST TO OWNER.
10. TREES AND PALMS TO BE REMOVED (IF ANY) SHALL BE MITIGATED WITH EQUIVALENT REPLACEMENTS. REMOVAL OF INVASIVE SPECIES SHALL NOT BE COUNTED TOWARD MITIGATION REQUIREMENTS.
11. ANY CATEGORY 1 INVASIVE SPECIES AS DEFINED IN THE LATEST FLORIDA EXOTIC PEST PLANT COUNCIL INVASIVE PLANT LISTS SHALL BE REMOVED FROM THE PROJECT SITE.

TREE TABLE

Tree #	Common Name	Botanical Name	DBH (Inches)	Height (feet)	Canopy Diameter (feet)	TPZ Radius (feet)	Disposition
001	Washingtonia Palm	Washingtonia robusta	12	35CT 400A	9	5	Remain
002	Washingtonia Palm	Washingtonia robusta	14	35CT 400A	9	5	Remain
003	Washingtonia Palm	Washingtonia robusta	12	35CT 400A	9	5	Remain
004	Washingtonia Palm	Washingtonia robusta	14	35CT 400A	9	5	Remain
005	Washingtonia Palm	Washingtonia robusta	13	35CT 400A	9	5	Remain
006	Montgomery Palm Triple	Veitchia arecina	23	29CT 290A	20	5	Remain
007	Montgomery Palm Triple	Veitchia arecina	28	26CT 330A	23	5	Remain
008	Montgomery Palm Triple	Veitchia arecina	23	29CT 290A	20	5	Remain
009	Montgomery Palm Triple	Veitchia arecina	28	26CT 330A	23	5	Remain
010	Montgomery Palm Triple	Veitchia arecina	28	26CT 330A	20	5	Remain
011	Montgomery Palm Triple	Veitchia arecina	28	29CT 290A	20	5	Remain
012	Florida Thatch Palm	Thrinax radiata	4	19CT 160A	6	5	Remain
013	Florida Thatch Palm	Thrinax radiata	5	19CT 180A	6	5	Remain
014	Montgomery Palm	Veitchia arecina	7.5	19CT 250A	17	5	Remain
015	Montgomery Palm	Veitchia arecina	8.5	18CT 250A	16	5	Remain
016	Florida Thatch Palm	Thrinax radiata	5	14CT 170A	6	5	Remain
017	Florida Thatch Palm	Thrinax radiata	5	18CT 200A	6	5	Remain
018	Florida Thatch Palm	Thrinax radiata	5	18CT 200A	6	5	Remain
019	Montgomery Palm Triple	Veitchia arecina	24	29CT 290A	20	5	Remain
020	Montgomery Palm Triple	Veitchia arecina	28	29CT 290A	20	5	Remain
021	Montgomery Palm Triple	Veitchia arecina	25	29CT 290A	20	5	Remain
022	Montgomery Palm Triple	Veitchia arecina	21	29CT 290A	20	5	Remain
023	Montgomery Palm Triple	Veitchia arecina	15	29CT 290A	20	5	Remain
024	Montgomery Palm Triple	Veitchia arecina	24	29CT 290A	20	5	Remain
025	Wild Tamarind	Lysiloma latifolium	17	21	27	12	Remain
026	Wild Tamarind	Lysiloma latifolium	22	23	30	15	Remain
027	Wild Tamarind	Lysiloma latifolium	24	23	30	15	Remain
028	Wild Tamarind	Lysiloma latifolium	17	23	25	12	Remain
029	Wild Tamarind	Lysiloma latifolium	19	25	30	15	Remain
030	Washingtonia Palm	Washingtonia robusta	15	39CT 370A	8	5	Remain
031	Washingtonia Palm	Washingtonia robusta	13	19CT 260A	10	5	Remain
032	Washingtonia Palm	Washingtonia robusta	12	24CT 300A	10	5	Remain
033	Washingtonia Palm	Washingtonia robusta	14	31CT 350A	9	5	Remain
034	Wild Tamarind	Lysiloma latifolium	27.5	26	27	12	Remain
035	Wild Tamarind	Lysiloma latifolium	18	24	22	10	Remain
036	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
037	Solitaire Palm	Psychospermum elegans	4	29CT 270A	8	5	Remain
038	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
039	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
040	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
041	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
042	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
043	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
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056	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
057	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
058	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
059	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
060	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
061	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
062	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
063	Solitaire Palm	Psychospermum elegans	3	29CT 270A	8	5	Remain
064	Royal Palm	Roystonea regia	9	10CT 200A	14	7	Remain
065	Solitaire Palm (Double)	Psychospermum elegans	6	19CT 180A	9	5	Remain
066	Cabala Palm	Dyess cabalae	12	19CT 220A	10	5	Remain
067	Cabala Palm	Dyess cabalae	8	20CT 240A	8	5	Remain
068	Montgomery Palm	Veitchia arecina	4	8CT 140A	10	5	Remain
069	Solitaire Palm	Psychospermum elegans	3	19CT 180A	8	5	Remain



DISPOSITION LEGEND

- EXISTING TREE/PALM TO BE PROTECTED AND PRUNED AS REQUIRED FOR INSTALLATION OF PROPOSED IMPROVEMENTS.
- EXISTING TREE/PALM TO BE RELOCATED. SEE PLANTING PLAN.
- EXISTING TREE/PALM TO BE REMOVED AND MITIGATED IF APPLICABLE.
- HATCH AREA INDICATES TREE PROTECTION ZONE



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Check positive response codes before you dig!



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305 / 279 4553 fax

www.graef-usa.com

CERTIFICATE OF AUTHORIZATION NO. 4270

Paolo Ferrera

Digitally signed by Paolo Ferrera
Date: 2020.09.04 12:29:01 -04'00'



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FOR THE FIRM : PAOLO FERRERA
LA 6667210

PROJECT TITLE:

PUBLIX STORE No. 621
LANDSCAPE MODIFICATIONS

FINAL SUBMITTAL

1920 WEST AVENUE
MIAMI BEACH, FLORIDA 33139-1434

NO. DATE REVISIONS BY

PROJECT INFORMATION:

PROJECT NUMBER: 2020-7026
DATE: 08/12/2020
DRAWN BY: P.F.
CHECKED BY: N.H.O.
APPROVED BY: P.F.
SCALE: AS SHOWN

SHEET TITLE:

TREE DISPOSITION PLAN

SHEET NUMBER:

L-1

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LANDSCAPE REQUIREMENTS

ZONING DISTRICT: I-1 URBAN LIGHT INDUSTRIAL NET LOT AREA: 1.91 ACRES (83,200 SF)

DESCRIPTION	REQUIRED	PROVIDED
A. THE MINIMUM NUMBER OF REQUIRED TREES PER LOT, PURSUANT TO SECTION 126-6;	22 X 1.91 = 42	5
B. THE MINIMUM NUMBER OF REQUIRED STREET TREES, PURSUANT TO SECTION 126-6;	20 / 795 LF = 40 STREET FRONTAGE	15
C. PROVIDED SHRUBS: 12 SHRUBS PER THE NUMBER OF REQUIRED LOT AND STREET TREES	12 X (42 + 40) = 984	850 (APPROX.)
D. MAXIMUM ALLOWABLE PERCENTAGE OF SOD WITHIN THE PROPERTY.	20% OF REQUIRED OPEN SPACE	NOT APPLICABLE

LANDSCAPE NOTES

- ALL LANDSCAPE WORK SHALL BE PERFORMED IN COMPLIANCE WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION, INCLUDING MIAMI-DADE COUNTY, CITY OF MIAMI BEACH AND LATEST ANSI A300 STANDARDS..
- ALL NEW TREES AND PALMS SHALL BE FLORIDA GRADE NO. 1 OR BETTER.
- SEE SURVEY FOR ADDITIONAL SITE INFORMATION.
- CONTRACTOR SHALL PROTECT ALL EXISTING PAVEMENTS, FENCING, VEGETATION, SOD, UTILITIES, IRRIGATION EQUIPMENT, AND OTHER SITE INFRASTRUCTURE INDICATED TO REMAIN WITHIN WORK AREAS FROM DAMAGE DURING PROGRESS OF WORK; AND SHALL RESTORE OR REPLACE ALL SUCH ITEMS DAMAGED DURING PROGRESS OF WORK TO MATCH EXISTING AT NO ADDITIONAL COST TO OWNER.
- PROTECTIVE VEGETATION BARRIERS SHALL BE PROVIDED IN COMPLIANCE WITH ALL CITY OF MIAMI BEACH REQUIREMENTS. PROTECTIVE BARRIERS SHALL BE PLACED AT THE DRIP LINE OF EACH TREE, CLUSTER OF TREES, OR PRESERVATION AREA, AND IN NO CASE LESS THAN TEN FEET FROM THE TRUNK OF ANY PROTECTED TREE. TREE CLUSTER OR PRESERVATION AREA. PROTECTIVE BARRIERS SHALL BE A MINIMUM OF FOUR FEET ABOVE GROUND LEVEL AND SHALL BE CONSTRUCTED OF WOOD, PLASTIC OR METAL, AND SHALL REMAIN IN PLACE UNTIL DEVELOPMENT IS COMPLETED. PROTECTIVE BARRIERS SHALL BE IN PLACE PRIOR TO THE START OF ANY CONSTRUCTION.
- PROVIDE MULCH FROM MELALEUCA, EUCALYPTUS, AUSTRALIAN PINE, OR OTHER NON-OLD GROWTH HARDWOOD FOR ALL PLANTING AREAS UNLESS NOTED OTHERWISE. MULCH RINGS SHALL EXTEND AT LEAST 3 FEET FROM EDGE OF TREE TRUNKS AND BASE OF PALMS. MULCH SHALL BE AT LEAST 6 INCHES AWAY FROM ANY PORTION OF A BUILDING OR STRUCTURE, AND AT LEAST 3 INCHES AWAY FROM THE EDGE OF TREE TRUNKS, PALMS, OR SHRUB STEMS. PROVIDE ALL MULCH AREAS AS INDICATED ON PLAN.
- CONTRACTOR SHALL WARRANTY NEWLY INSTALLED TREES FOR A PERIOD OF AT LEAST ONE (1) YEAR. CONTRACTOR SHALL PROVIDE MAINTENANCE AS MAY BE REQUIRED; INCLUDING STAKING, WATERING, AND PRUNING TO ENSURE OVERALL HEALTH OF TREES.
- ANY TREE THAT SHOULD DIE, OR IS OTHERWISE FOUND TO BE UNACCEPTABLE TO THE LANDSCAPE ARCHITECT/ OWNER WITHIN THE REQUIRED MAINTENANCE PERIOD AFTER FINAL INSTALLATION, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR WITH EQUAL OR BETTER PLANT MATERIAL, AND THE SITE SHALL BE RESTORED AT NO ADDITIONAL COST TO OWNER.
- SHRUB AND GROUND COVER QUANTITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE PLANTS AT SPECIFIED SPACING TO FILL ENTIRE PLANTING AREAS AS INDICATED ON PLANS, AND SHALL MODIFY IN FIELD AS NEEDED TO ACCOMMODATE EXISTING TREE ROOTS AND/OR OTHER OBSTRUCTIONS.
- SHADE TREES INSTALLED WITHIN 6 FEET OF PUBLIC INFRASTRUCTURE SHALL UTILIZE A ROOT BARRIER SYSTEM. ALL SHADE TREES INSTALLED WITHIN 6 FEET FROM FACE OF SIDEWALKS OR CURBS SHALL UTILIZE A ROOT BARRIER SYSTEM. TREES OR PALMS INSTALLED WITHIN 6 FEET OF UNDERGROUND UTILITIES DRAINAGE STRUCTURES, EXFILTRATION TRENCHES, OR OTHER EQUIPMENT SHALL UTILIZE A ROOT BARRIER SYSTEM.

IRRIGATION NOTE

- 100% IRRIGATION COVERAGE SHALL BE PROVIDED FOR ALL NEW LANDSCAPE AREAS AND PROPOSED VEGETATION; AND SHALL BE COORDINATED WITH THE EXISTING IRRIGATION ZONES AND EQUIPMENT ON-SITE.

PLANTING SCHEDULE

KEY	DESCRIPTION	NATIVE	WATER	DESIGNATION	QUANTITY
BA	BULNESIA ARBOREA VERAWOOD 14HT/ 6'SPRD/ 3'CLP		LOW	STREET TREE	4 MATCH
CES	CONOCARPUS ERECTUS 'SERICEUS' SILVER BUTTONTWOOD 12HT/ 5'SPRD/ 2.5'CLP/ 4' CLEAR TK	YES	LOW	STREET TREE/ SITE TREE	9 MATCH
PE	PTYCHOSPERMA ELEGANS SOLITAIRE PALM 15' HT DOUBLE TK		LOW		4 MATCH
PX	PHILODENDRON XANADU XANADU 18'HT/ 18'SPRD/ 30" OC		LOW		19
SN	STRELITZIA NICOLAI WHITE BIRD OF PARADISE 5HT/ 48" OC		LOW		10

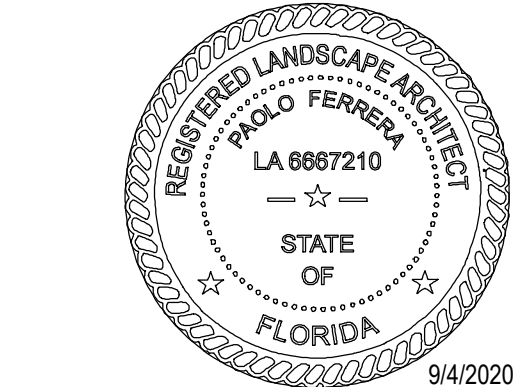
PLANTING LEGEND

- EXISTING TREE/PALM TO BE PROTECTED AND PRUNED AS REQUIRED FOR INSTALLATION OF PROPOSED IMPROVEMENTS.
- HATCH AREA INDICATES TREE PROTECTION ZONE
- PROPOSED TREE
- PROPOSED PALM



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.

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FOR THE FIRM : PAOLO FERRERA
LA 6667210

PROJECT TITLE:

PUBLIX STORE No. 621
LANDSCAPE MODIFICATIONS

1920 WEST AVENUE
MIAMI BEACH, FLORIDA 33139-1434

ISSUE:
NO. DATE REVISIONS BY

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CHECKED BY: N.H.O.

APPROVED BY: P.F.

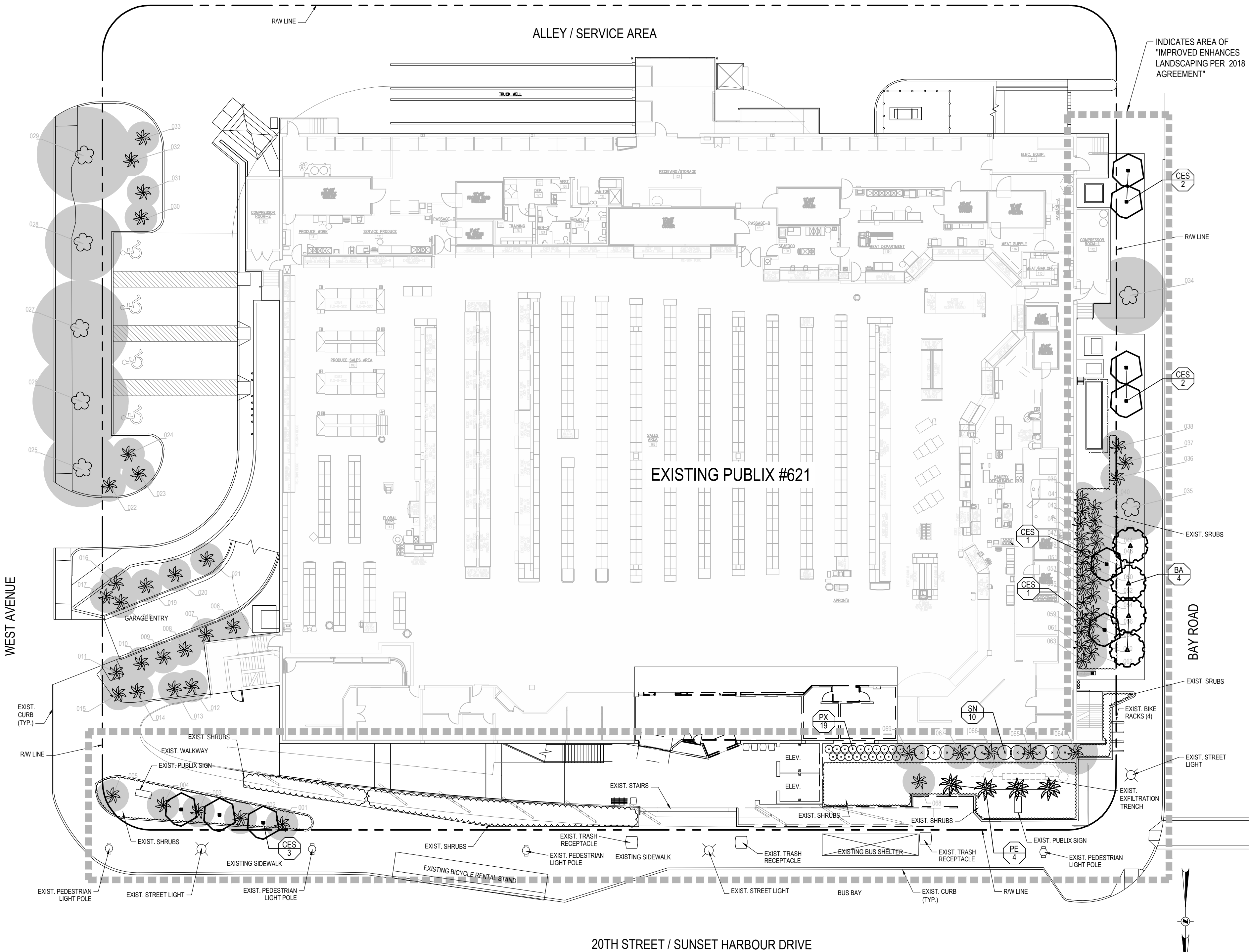
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SHEET TITLE:

LANDSCAPE PLAN

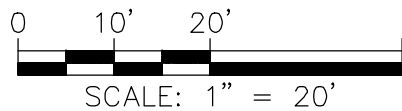
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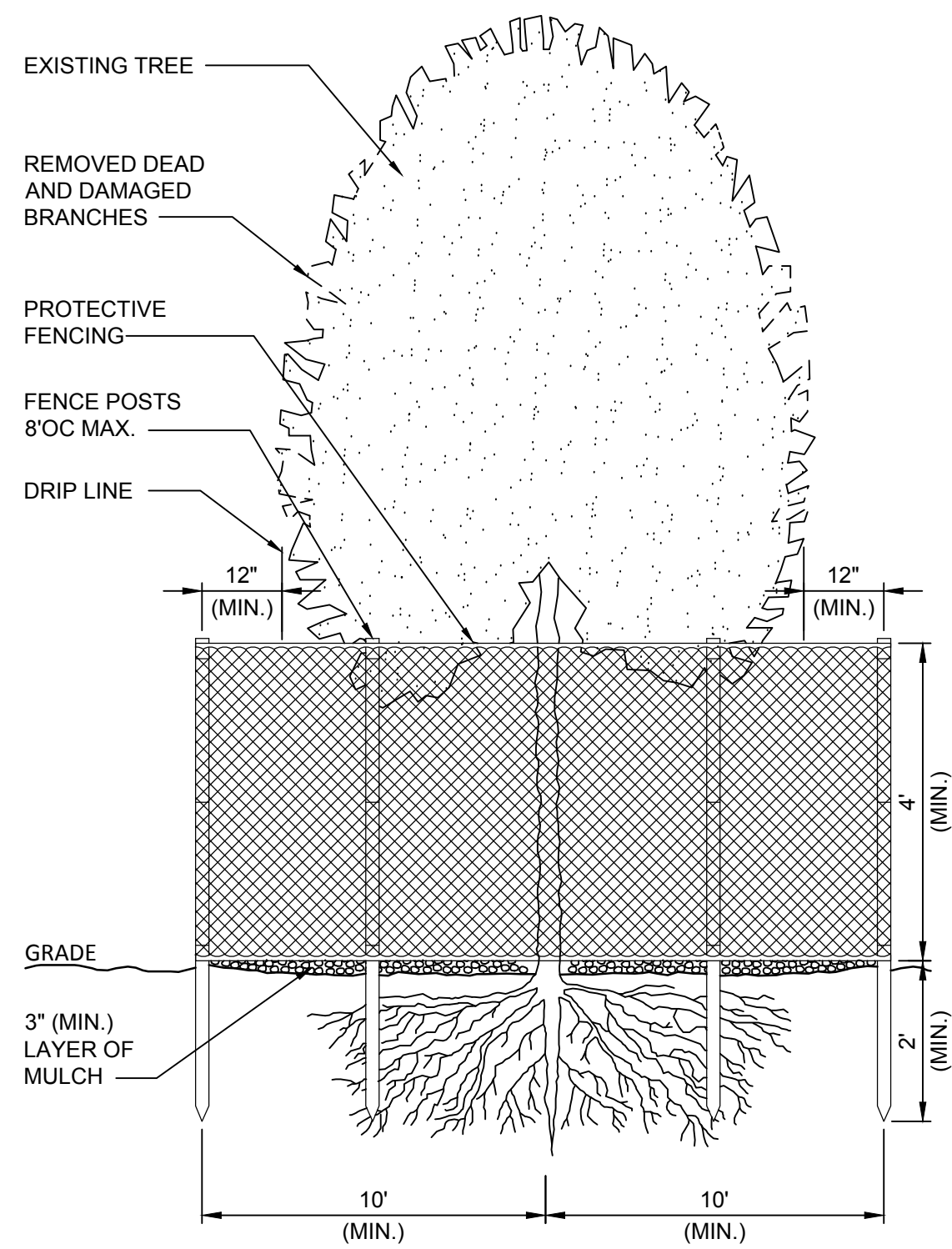


PLANTING PLAN

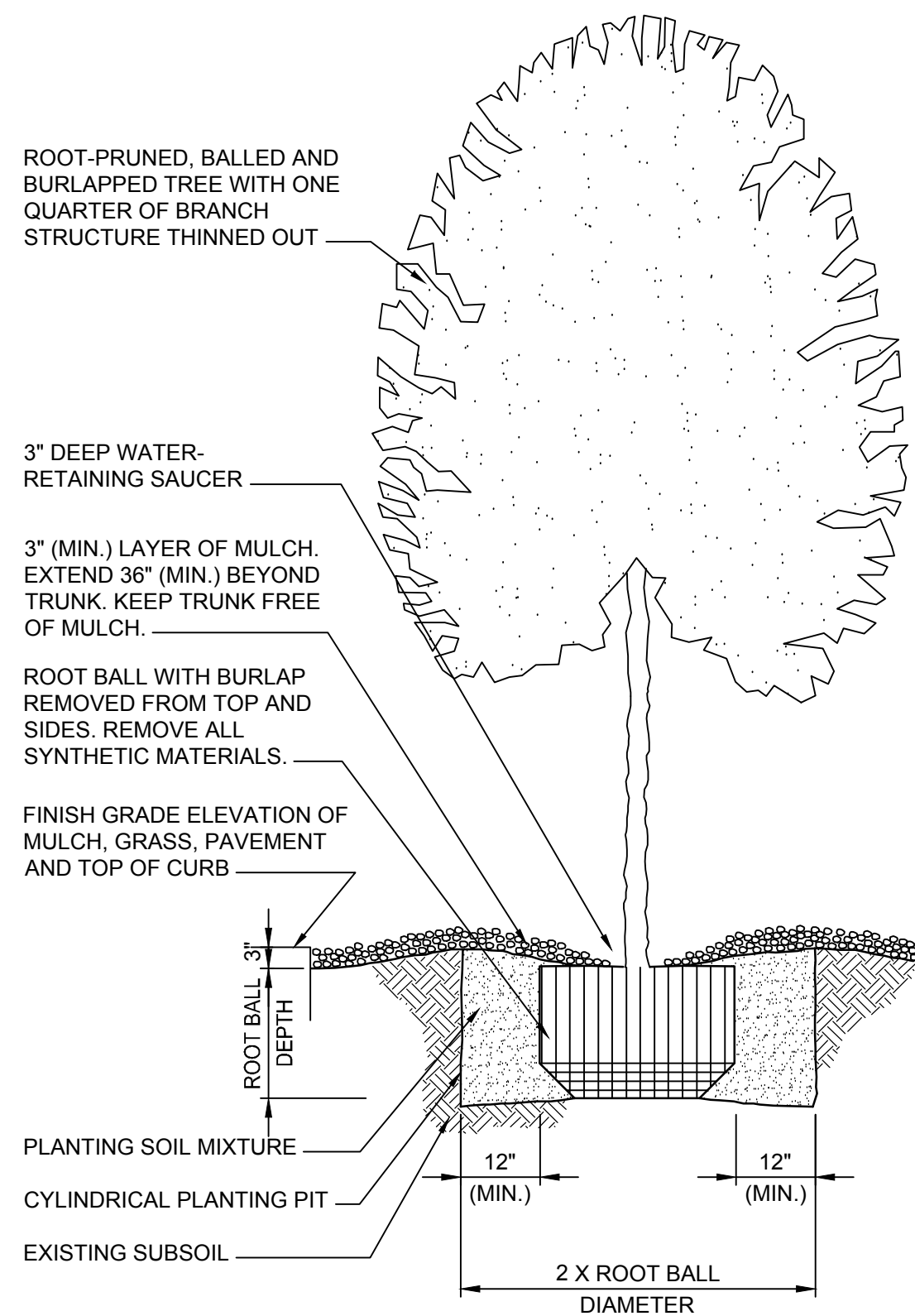
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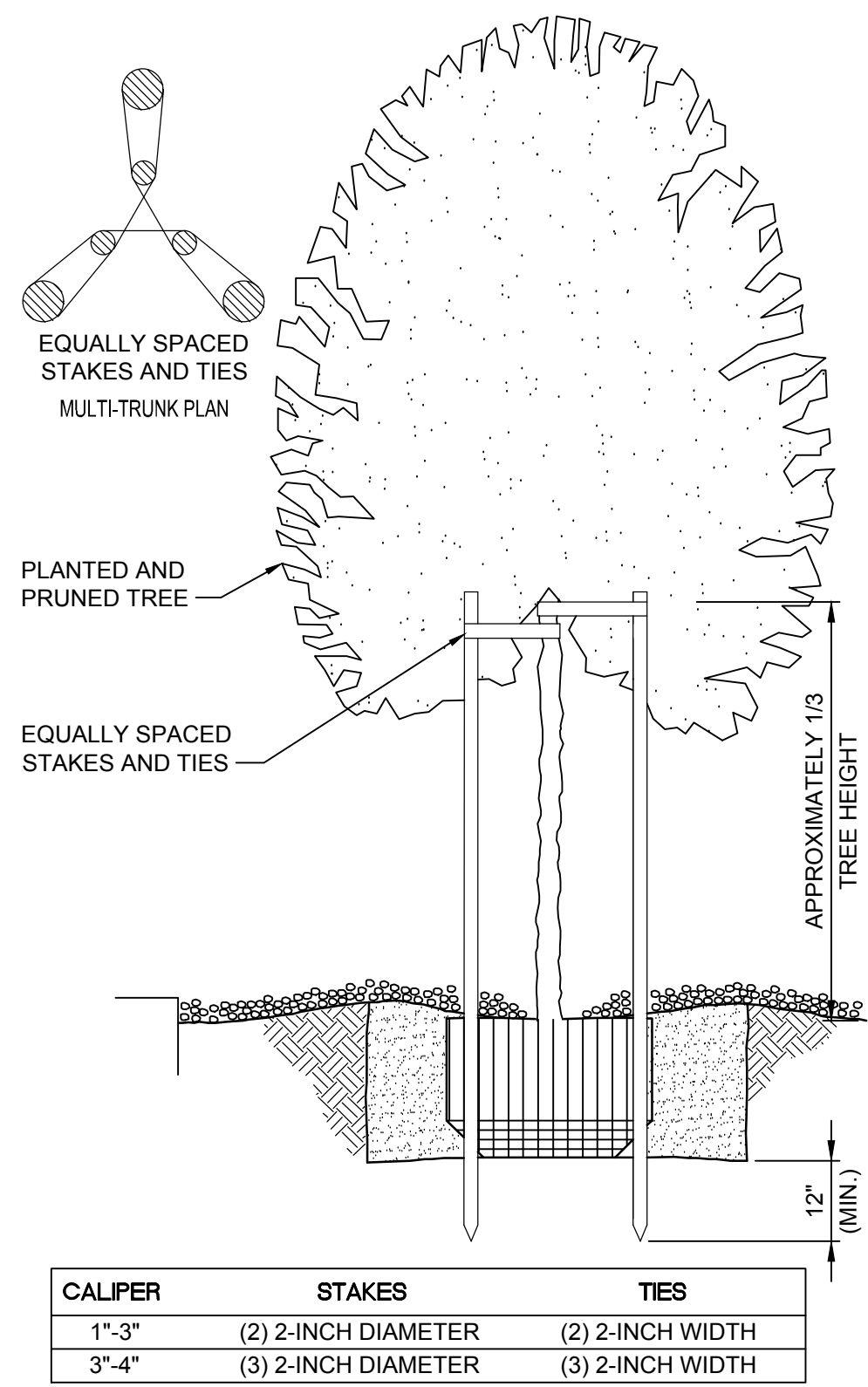
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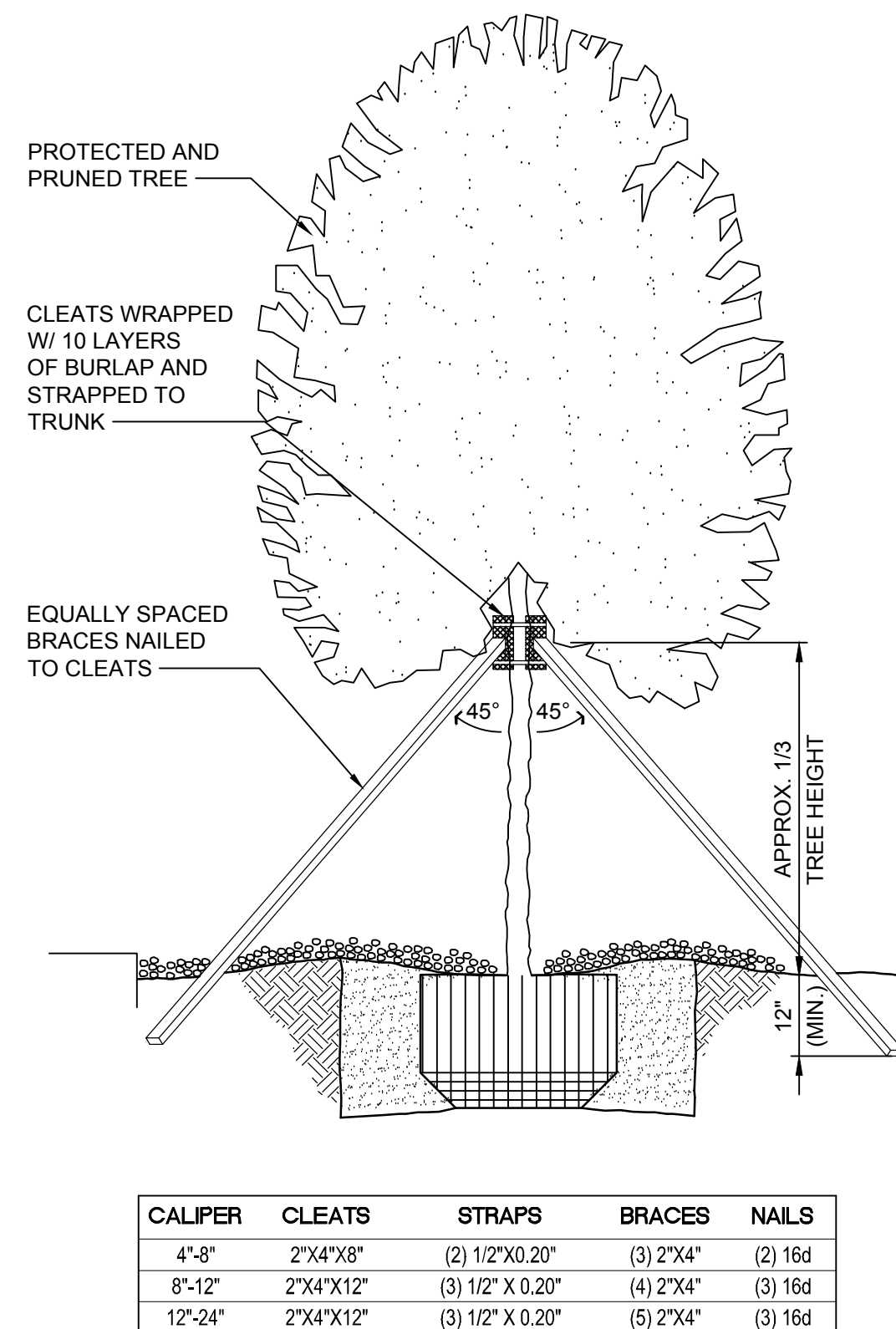
TREE PROTECTION DETAIL
N.T.S.



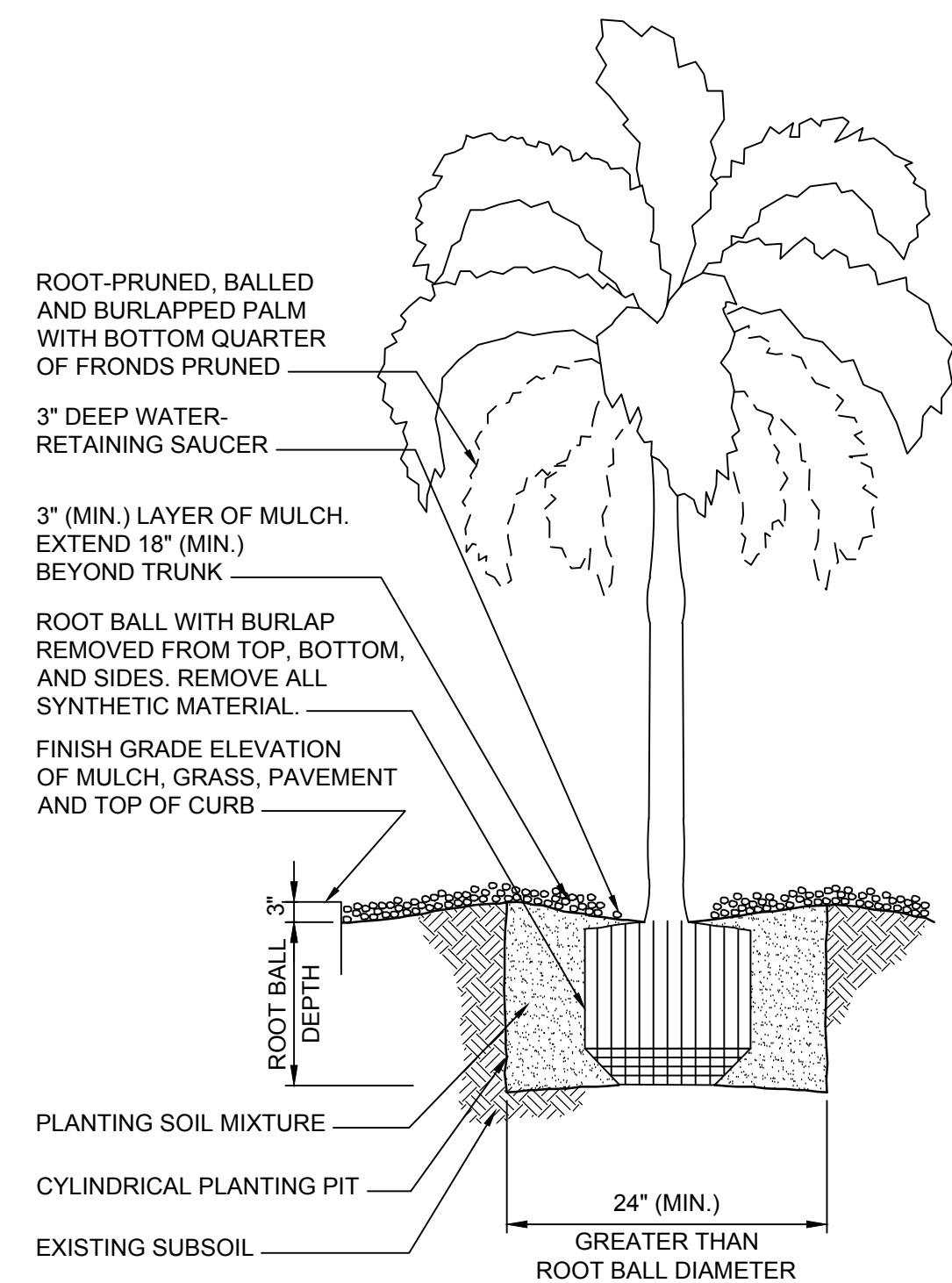
TREE PLANTING DETAIL
N.T.S.



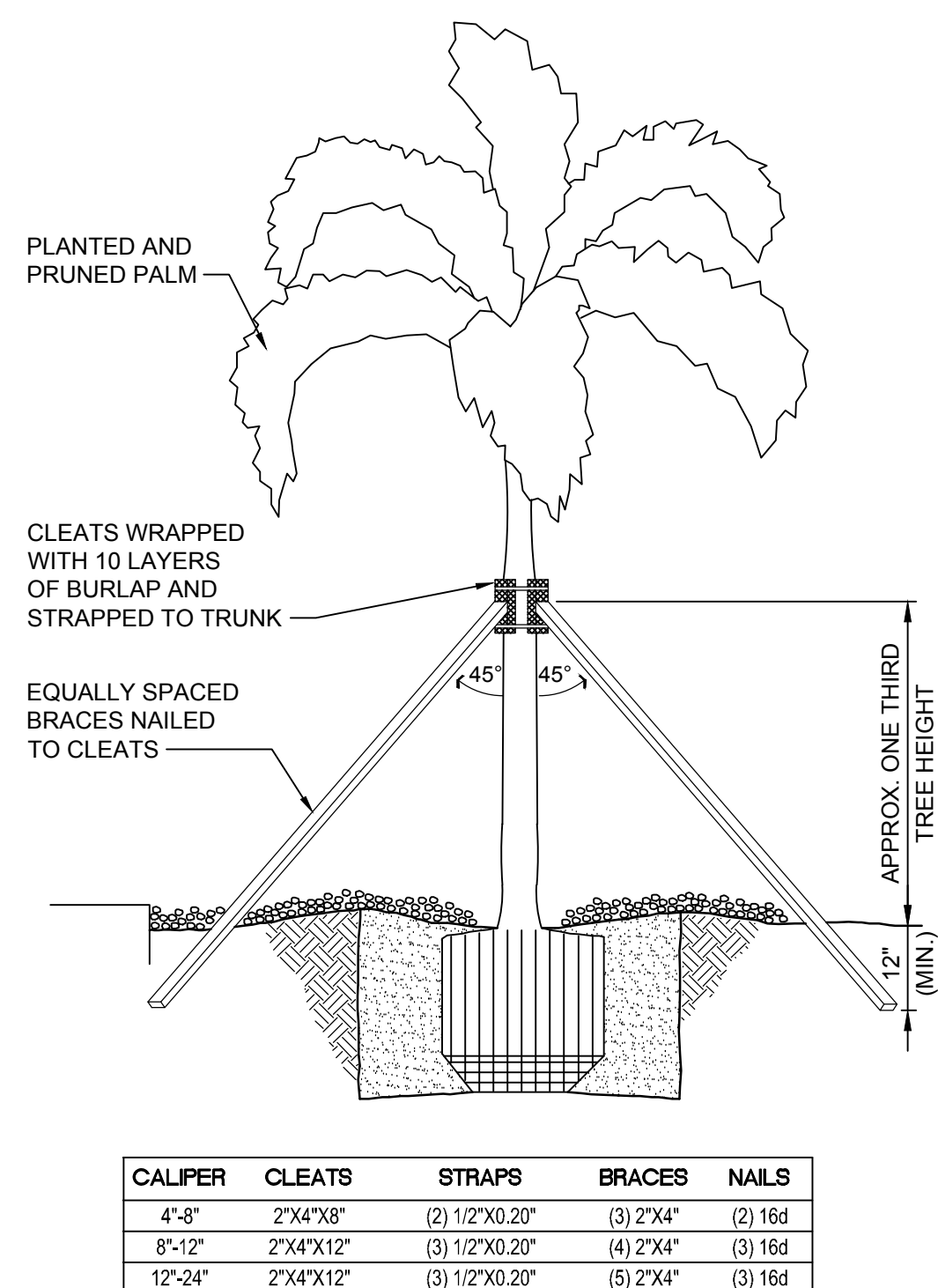
TREE STAKING DETAIL
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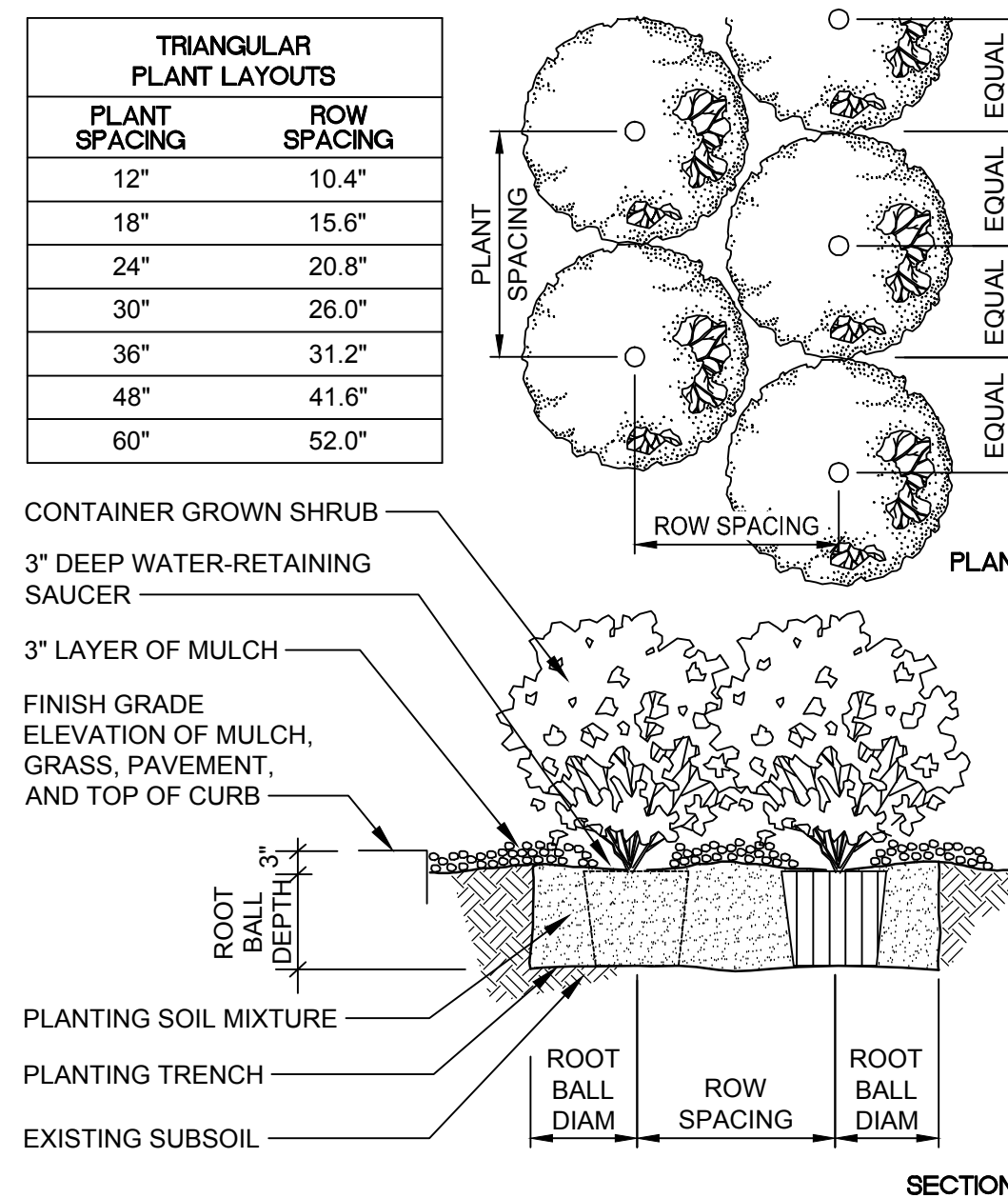
TREE BRACING DETAIL
N.T.S.



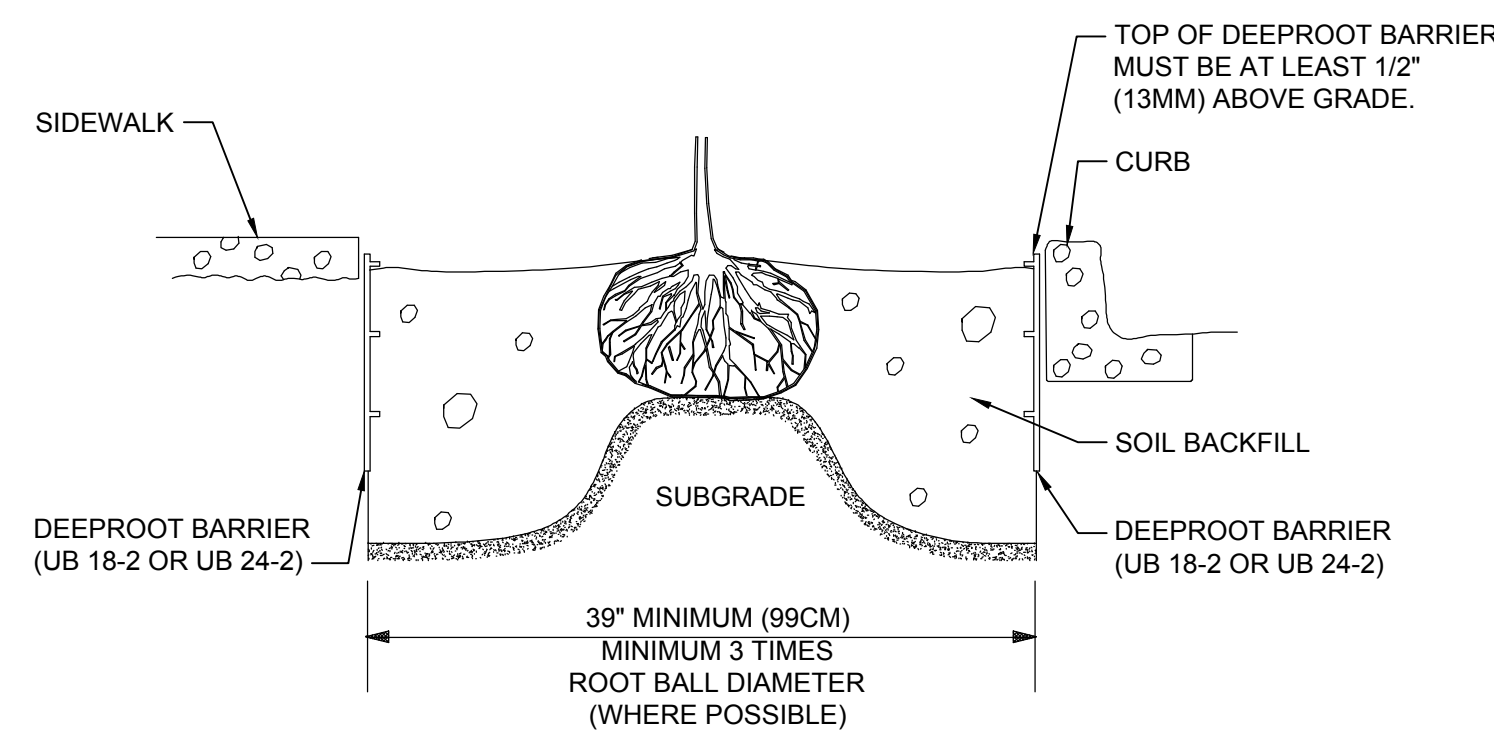
PALM PLANTING DETAIL
N.T.S.



PALM BRACING DETAIL
N.T.S.



SHRUB PLANTING DETAIL
N.T.S.



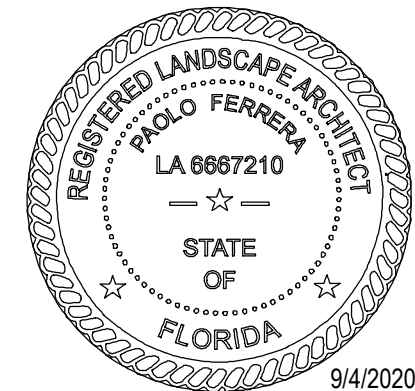
ROOT BARRIER DETAIL
N.T.S.

GRAEF

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CERTIFICATE OF AUTHORIZATION NO. 4270



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APPROVED BY: P.F.

SCALE: AS SHOWN

SHEET TITLE:

LANDSCAPE DETAILS

SHEET NUMBER:

L-3

SECTION 32 93 00 PLANTS

- PART 1 GENERAL
- 1.01SECTION INCLUDES
- A. PREPARATION OF SUBSOIL AND TOPSOIL.
 - B. NEW PLANTS AS APPLICABLE. REFER TO PLANS.
 - C. MULCH AND FERTILIZER.
 - D. TREE PRUNING.
- 1.02 SUBMITTALS
- A. SUBMIT LIST OF PLANT LIFE SOURCES WITH ACCOMPANYING RECENT PHOTOGRAPH OF TYPICAL SAMPLE FOR EACH SCHEDULED PLANT SPECIES.
 - B. SUBMIT CERTIFICATES OF INSPECTION AS REQUIRED BY GOVERNING AUTHORITIES HAVING JURISDICTION. SUBMIT PLANT SAMPLES AND CULTIVAR CERTIFICATES ISSUED BY NURSERY.
 - C. SUBMIT CERTIFIED ANALYSES FOR TOPSOIL, SAND, AND FERTILIZERS. SUBMIT LABORATORY ANALYSIS RESULTS FOR PH AND CATIONIC EXCHANGE RATE TESTS FOR TOPSOIL AND SAND. PROVIDE TESTS AND ANALYSES CONDUCTED BY RECOGNIZED LABORATORY OR MANUFACTURER IN ACCORDANCE WITH METHODS ESTABLISHED BY THE ASSOCIATION OF OFFICIAL AGRICULTURE CHEMISTS.
 - D. SUBMIT MANUFACTURERS' PUBLISHED TECHNICAL DATA, AND INSTALLATION AND MAINTENANCE INSTRUCTIONS FOR MATERIALS AND PRODUCTS.
 - E. SUBMIT PROPOSED SCHEDULE WITH DATES FOR EACH TYPE OF PLANTING DURING FAVORABLE WEATHER FOR SUCH WORK. CORRELATE SCHEDULE WITH SPECIFIED MAINTENANCE PERIOD TO PROVIDE MAINTENANCE FROM DATE OF SUBSTANTIAL COMPLETION FOR PLANTING. ONCE SCHEDULE IS REVIEWED, REVISE DATES ONLY AS ACCEPTED IN WRITING, AFTER DOCUMENTATION OF REASONS FOR DELAYS.
 - F. SUBMIT TYPEWRITTEN INSTRUCTIONS RECOMMENDING MAINTENANCE PROCEDURES TO BE ESTABLISHED BY OWNER FOR MAINTENANCE OF PLANTS FOR ONE FULL YEAR. SUBMIT INSTRUCTIONS PRIOR TO EXPIRATION OF REQUIRED MAINTENANCE PERIOD.
- C
- 1.03 QUALITY ASSURANCE
- A. COMPLY WITH APPLICABLE REQUIREMENTS OF GOVERNING AUTHORITIES HAVING JURISDICTION, INCLUDING ANIMAL AND PLANT HEALTH INSPECTION SERVICES OF THE US DEPARTMENT OF AGRICULTURE, FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES, SOUTH FLORIDA WATER MANAGEMENT DISTRICT, MIAMI-DADE COUNTY, AND CITY OF MIAMI BEACH.
 - B. COMPLY WITH APPLICABLE REQUIREMENTS OF FLORIDA POWER & LIGHT COMPANY, INCLUDING LINE CLEARANCE CERTIFICATION.
 - C. PROVIDE PLANTS THAT COMPLY WITH APPLICABLE PROVISIONS OF FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES GRADES AND STANDARDS FOR NURSERY PLANTS FOR GRADE NUMBER 1 OR BETTER.
 - D. PROVIDE PLANTS THAT COMPLY WITH APPLICABLE PROVISIONS OF ANSI Z60.1.
 - E. PROVIDE PLANTS THAT HAVE A HABIT OF GROWTH THAT IS NORMAL FOR SPECIES AND CULTIVARS, AND THAT ARE SOUND, HEALTHY, VIGOROUS, WELL ROOTED, AND FREE OF INSECT PESTS, PLANT DISEASES, WEEDS, AND INJURIES.
 - F. PROVIDE PLANTS GROWN IN RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE, UNLESS SITE, COLLECTED, OR PLANTATION STOCK IS INDICATED. PROVIDE PLANTS GROWN IN CLIMATE, SOIL, AND WATER CONDITIONS SIMILAR TO PROJECT SITE CONDITIONS.
 - G. PROVIDE PLANTS WITH UNIFORM HEIGHT, SPREAD, AND CALIPER WHERE MATCHED QUANTITIES ARE INDICATED.
 - H. SHIP PLANTS WITH CERTIFICATES OF INSPECTION REQUIRED BY GOVERNING AUTHORITIES HAVING JURISDICTION. LABEL AT LEAST ONE SAMPLE OF EACH PLANT TYPE WITH A SECURELY ATTACHED WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF COMMON NAME AND BOTANICAL NAME, INCLUDING CULTIVAR.
 - I. LANDSCAPE ARCHITECT MAY REVIEW PLANTS AT NURSERY OR AT PROJECT SITE BEFORE PLANTING FOR COMPLIANCE WITH REQUIREMENTS.
 - J. LANDSCAPE ARCHITECT RETAINS RIGHT TO FURTHER REVIEW PLANTS FOR QUALITY, PESTS, DAMAGE, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. REMOVE REJECTED PLANTS PROMPTLY FROM PROJECT SITE.
 - K. NURSERY QUALIFICATIONS: COMPANY SPECIALIZING IN GROWING AND CULTIVATING THE PLANTS WITH THREE YEARS DOCUMENTED EXPERIENCE.
 - L. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN INSTALLING AND PLANTING THE PLANTS WITH MINIMUM FIVE YEARS EXPERIENCE.
- 1.04 SITE VISITS
- A. SCHEDULE SITE VISITS BY LANDSCAPE ARCHITECT FOR REVIEW OF PLANTS AND PLANTING SOIL MIXTURES, AND FIELD OBSERVATION OF PLANTING LAYOUT, SUBSOIL CONDITIONS, SOIL MIXTURES, ROUGH AND FINISH GRADES, PLANTING, AND PLANTED VEGETATION.
- 1.05 DELIVERY, STORAGE, AND HANDLING
- A. DELIVER FERTILIZER IN WATERPROOF BAGS SHOWING WEIGHT, CHEMICAL ANALYSIS, AND NAME OF MANUFACTURER.
 - B. PROTECT AND MAINTAIN PLANT LIFE UNTIL PLANTED.
 - C. PROVIDE TIMELY ROOT-PRUNED, FRESHLY DUG FIELD-GROWN PLANTS. DO NOT PRUNE PLANTS PRIOR TO DELIVERY UNLESS OTHERWISE INDICATED. DO NOT TIE, BEND, OR LIFT PLANTS IN SUCH MANNER AS TO DESTROY NATURAL SHAPE, BREAK BRANCHES, OR DAMAGE BARK OR ROOTBALL. PROVIDE PROTECTIVE COVERING DURING DELIVERY. DO NOT DROP PLANTS DURING DELIVERY.
 - D. DELIVER FIELD-GROWN PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED. PLANT IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN 6 HOURS AFTER DELIVERY, SET PLANTS IN SHADE, PROTECT FROM WEATHER, PREVENT MECHANICAL DAMAGE, AND KEEP ROOTS MOIST WITH MULCH OR BURLAP. DO NOT REMOVE CONTAINER-GROWN STOCK FROM CONTAINERS UNTIL PLANTING TIME.
- 1.06 FIELD CONDITIONS
- A. PROCEED WITH AND COMPLETE PLANTING AS RAPIDLY AS PORTIONS OF PROJECT SITE BECOME AVAILABLE. WORK WITHIN WEATHER LIMITATIONS FOR EACH TYPE OF WORK REQUIRED.
 - B. WHEN CONDITIONS DETRIMENTAL TO PLANT GROWTH ARE ENCOUNTERED, SUCH AS FILL, DEBRIS, CONTAMINATION, ADVERSE DRAINAGE CONDITIONS, OR GROUND OR OVERHEAD OBSTRUCTIONS, NOTIFY ARCHITECT BEFORE GRADING AND PLANTING.
 - C. PLANT VEGETATION AND INSTALL MATERIALS DURING WEATHER FAVORABLE FOR SUCH WORK. CORRELATE PLANTING AND INSTALLATION WITH SPECIFIED MAINTENANCE PERIOD TO PROVIDE MAINTENANCE FROM DATE OF SUBSTANTIAL COMPLETION FOR PLANTING.
 - D. INSTALL PLANTS AFTER FINAL GRADES ARE ESTABLISHED AND PRIOR TO SODDING OF LAWNS, UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT. IF PLANTING OCCURS AFTER SODDING, PROTECT LAWN AREAS AND PROMPTLY REPAIR DAMAGE TO LAWNS RESULTING FROM PLANTING OPERATIONS.
- B
- 1.07 WARRANTY
- A. PROVIDE ONE YEAR WARRANTY.
 - B. WARRANTY: INCLUDE COVERAGE FOR ONE CONTINUOUS GROWING SEASON; REPLACE DEAD OR UNHEALTHY PLANTS.
 - C. REPLACEMENTS: PLANTS OF SAME SIZE AND SPECIES AS SPECIFIED, PLANTED IN THE NEXT GROWING SEASON, WITH A NEW WARRANTY COMMENCING ON DATE OF REPLACEMENT.
- PART 2 PRODUCTS
- 2.01 PLANTS
- A. PLANTS: SPECIES AND SIZE IDENTIFIED IN PLANT SCHEDULE, GROWN IN CLIMATIC CONDITIONS SIMILAR TO THOSE IN LOCALITY OF THE WORK.
- 2.02 SOIL AMENDMENT MATERIALS
- A. FERTILIZER: SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE FERTILIZERS MANUFACTURED BY ATLANTIC FLORIDA EAST COAST FERTILIZER AND CHEMICAL (AFEC) AS SCHEDULED BELOW:
- | VEGETATION | MEDIUM | MANUFACTURER | MIX | ANALYSIS |
|---------------|--------|--------------|----------|----------|
| PALMS | GROUND | AFEC | 6878 | 08-04-12 |
| TREES, SHRUBS | GROUND | AFEC | 1631 | 06-06-06 |
| HERBS | GROUND | SCOTT'S | OSMOCOTE | 14-14-14 |
- B. PEAT HUMUS: BROWN, FINELY DIVIDED, GRANULAR, NON-FIBROUS, DECOMPOSED CANADIAN SPHAGNUM MOSS, WITH PH RANGE 5.5 TO 7.5, OR AS OTHERWISE SUITABLE FOR INTENDED USE, AND WITH MINIMUM ORGANIC MATTER CONTENT OF 85% BY WEIGHT AS DETERMINED BY ASTM D2974, METHOD D.
 - 1. PROVIDE PEAT THAT IS FREE OF NEMATODES, REASONABLY FREE OF SUBSOIL, BRUSH, WEEDS, AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 1 INCH IN ANY DIMENSION, AND OTHER EXTRANEIOUS OR TOXIC MATTER HARMFUL TO GRASS GROWTH.
 - C. SAND: CLEANED, WASHED, NUMBER 70 SILICA SAND, FREE OF SILT, SLUDGE, AND TOXIC MATERIALS, WITH 100 PERCENT OF SAND PASSING A NUMBER 16 SIEVE AND NOT MORE THAN 8 PERCENT PASSING A NUMBER 100 SIEVE.
 - D. WATER: CLEAN, FRESH, AND FREE OF SUBSTANCES OR MATTER THAT COULD INHIBIT VIGOROUS GROWTH OF PLANTS.
- 2.03 MULCH MATERIALS
- A. MULCHING MATERIAL: SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE FLORIMULCH PRODUCED BY FORESTRY RESOURCES INCORPORATED.
- 2.04 ACCESSORIES
- A. FILTRATION/SEPARATION FABRIC: PROVIDE WATER PERMEABLE FILTRATION MATERIAL OF FIBERGLASS OR POLYPROPYLENE FABRIC.
 - B. WRAPPING MATERIALS: BURLAP.
 - C. STAKES, BRACES, AND CLEATS: PROVIDE STAKES, BRACES, AND CLEATS OF SOUND, NEW TREATED SOFTWOOD, FREE OF KNOTHOLES AND OTHER DEFECTS. PROVIDE STEEL STRAPS AND HOT-DIP GALVANIZED NAILS.
 - D. TIES: SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE OLIVE GREEN AT ARBORTIES MANUFACTURED BY DEEPROOT.
 - E. BED DIVIDER: SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE BLACK DIAMOND BD-20 BED DIVIDER MANUFACTURED BY VALLEY VIEW INDUSTRIES.
 - F. POROUS FLEXIBLE PAVING: SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, PROVIDE GRASSPAVE2 POROUS PAVEMENT SYSTEM FROM INVISIBLE STRUCTURES. THE SYSTEM PROVIDES VEHICULAR AND HEAVY LOAD SUPPORT OVER GRASS AREAS WHILE PROTECTING GRASS ROOTS FROM HARMFUL EFFECTS OF TRAFFIC.
- 2.05 SOURCE QUALITY CONTROL
- A. PROVIDE TESTING AND ANALYSIS OF IMPORTED TOPSOIL.
 - B. TESTING IS NOT REQUIRED IF RECENT TESTS ARE AVAILABLE FOR IMPORTED TOPSOIL. SUBMIT THESE TEST RESULTS TO THE TESTING LABORATORY FOR APPROVAL. INDICATE, BY TEST RESULTS, INFORMATION NECESSARY TO DETERMINE SUITABILITY.
- A

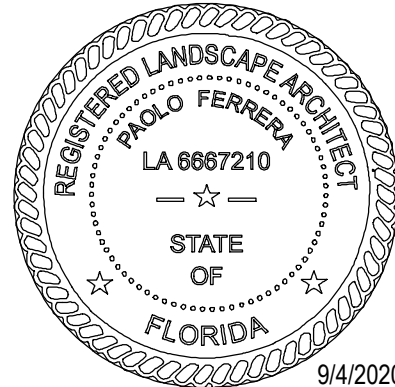
- PART 3 EXECUTION
- 3.01 EXAMINATION
- A. VERIFY THAT PREPARED SUBSOIL IS READY TO RECEIVE WORK.
 - B. SATURATE SOIL WITH WATER TO TEST DRAINAGE.
 - C. VERIFY THAT REQUIRED UNDERGROUND UTILITIES ARE AVAILABLE, IN PROPER LOCATION, AND READY FOR USE.
- 3.02 PREPARATION OF SUBSOIL
- A. PREPARE SUBSOIL TO ELIMINATE UNEVEN AREAS. MAINTAIN PROFILES AND CONTOURS. MAKE CHANGES IN GRADE GRADUAL. BLEND SLOPES INTO LEVEL AREAS.
 - B. REMOVE FOREIGN MATERIALS, WEEDS AND UNDESIRABLE PLANTS AND THEIR ROOTS. REMOVE CONTAMINATED SUBSOIL.
 - C. SCARIFY SUBSOIL TO A DEPTH OF 3 INCHES (75 MM) WHERE PLANTS ARE TO BE PLACED. REPEAT CULTIVATION IN AREAS WHERE EQUIPMENT, USED FOR HAULING AND SPREADING TOPSOIL, HAS COMPACTED SUBSOIL.
 - D. DIG PITS, TRENCHES, AND BEDS OF SIZES INDICATED ON DRAWINGS WITH VERTICAL SIDES AND SLIGHTLY RAISED BOTTOM AT CENTER TO PROVIDE PROPER DRAINAGE. LOOSEN HARD SUBSOIL AT BOTTOM OF EXCAVATION. FILL EXCAVATION WITH WATER AND ALLOW PERCOLATING BEFORE PLANTING.
- 3.03 TRANSPLANTING
- A. TRENCH AROUND FIELD-GROWN PLANTS TO BE TRANSPLANTED, WHETHER NURSERY OR SITE STOCK, TO FORM ROOTBALLS OF SIZES INDICATED ON DRAWINGS. BACKFILL WITH NATIVE GROUND TOPSOIL OR WITH PLANTING SOIL MIXTURE IF GROWING MEDIUM IS LIMESTONE.
 - B. RELOCATE PLANTS WHEN SUFFICIENT, BUT NOT EXCESSIVE, NEW ROOT GROWTH IS ESTABLISHED TO ASSURE FULL RECOVERY. REPEAT ROOT-PRUNING AS REQUIRED TO CHECK EXCESSIVE ROOT GROWTH.
- 3.04 LAYOUT
- A. STAKE INDIVIDUAL PLANTING LOCATIONS AND OUTLINE MULTIPLE PLANTING AREAS. SECURE LANDSCAPE ARCHITECT'S ACCEPTANCE BEFORE START OF PLANTING WORK. MAKE ADJUSTMENTS AS MAY BE REQUESTED.
- 3.05 INSTALLATION
- A. SUBJECT TO COMPLIANCE WITH APPLICABLE REQUIREMENTS, INSTALL MATERIALS AND PRODUCTS IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- 3.06 PLANTING SOIL MIXTURES
- A. PROVIDE PLANTING SOIL MIXES COMPOSED BY VOLUME AS SCHEDULED BELOW:
- | VEGETATION | PEAT HUMUS | SAND |
|----------------------|------------|------|
| PALMS | 30% | 70% |
| TREES, SHRUBS, HERBS | 50% | 50% |
- B. BEFORE MIXING, SCREEN PEAT HUMUS TO A FRIABLE CONDITION FREE OF ROOTS, PLANTS, SODS, STONES, CLAY LUMPS, AND OTHER EXTRANEIOUS MATERIALS HARMFUL OR TOXIC TO PLANT GROWTH. THOROUGHLY MIX TOPSOIL AND AMENDMENTS.
- 3.07 FERTILIZING
- A. APPLY FERTILIZER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
 - B. DELAY MIXING OF FERTILIZER IF PLANTING WILL NOT FOLLOW MIXING WITHIN 3 DAYS.
- 3.08 PLANTING
- A. SET PLANTS PLUMB AND CENTERED ON RAISED EXCAVATION BOTTOMS WITH TOP OF ROOTBALLS FLUSH WITH ADJACENT TOPSOIL. REMOVE BURLAP FROM SIDES, BUT NOT FROM BOTTOM, OF ROOTBALLS OF FIELD-GROWN STOCK.
 - B. BACKFILL WITH PLANTING SOIL MIXTURE. PLACE MIXTURE IN LIGHTLY COMPACTED LAYERS. WORK AND WATER EACH LAYER TO SETTLE BACKFILL. ELIMINATE VOIDS, AND SATURATE PLANTING SOIL MIXTURE. BACKFILL EXCAVATIONS FLUSH WITH ADJACENT TOPSOIL, ALLOWING FOR NATURAL SETTLEMENT. DISH TOP OF BACKFILL TO RETAIN WATER AND ACCOMMODATE MULCH AROUND PLANTS.
 - C. STAKE AND BRACE PALMS AND TREES IMMEDIATELY AFTER PLANTING, AS INDICATED ON DRAWINGS. DO NOT NAIL THROUGH BRACES AND CLEATS INTO PALM TRUNKS.
- 3.09 MULCHING
- A. MULCH ENTIRE SURFACE OF PITS, TRENCHES, AND BEDS. PROVIDE MULCH THICKNESS INDICATED ON DRAWINGS. DO NOT APPLY MULCH AGAINST TRUNKS OR STEMS. FINISH MULCH LEVEL WITH ADJACENT FINISH GRADES.
- 3.10 BED DIVIDER
- A. INSTALL BED DIVIDER IN ACCORDANCE WITH RECOMMENDATIONS OF MANUFACTURERS.
- 3.11 POROUS FLEXIBLE PAVING
- A. INSTALL POROUS FLEXIBLE PAVING FOR USE WITH STABILIZED SOD AREAS IN ACCORDANCE WITH RECOMMENDATIONS OF MANUFACTURERS.
- 3.12 TREE PRUNING
- A. PERFORM PRUNING OF TREES AS RECOMMENDED IN ANSI A300 PART 1.
 - B. PRUNE, THIN OUT, AND SHAPE PLANTS AS INDICATED ON DRAWINGS TO RETAIN NATURAL CHARACTER AND PROVIDE REQUIRED HEIGHT, SPREAD, AND CLEAR TRUNK IMMEDIATELY AFTER PLANTING, UNLESS OTHERWISE INDICATED. DO NOT CUT TREE TRUNK LEADERS OR UNOPENED PALM FRONDS. REMOVE ONLY DEAD OR INJURED BRANCHES FROM FLOWERING TREES. REMOVE AND REPLACE EXCESSIVELY PRUNED OR MALFORMED PLANTS RESULTING FROM IMPROPER PRUNING.
- 3.13 ANTIDESICCANT
- A. APPLY ANTIDESICCANT TO TREES AND PALMS USING POWER SPRAY TO PROVIDE AN ADEQUATE FILM OVER TRUNKS, BRANCHES, STEMS, TWIGS, AND FOLIAGE. IF DECIDUOUS TREES ARE MOVED IN FULL LEAF, SPRAY WITH ANTIDESICCANT AT NURSERY BEFORE MOVING AND AGAIN AFTER 2 WEEKS AFTER PLANTING.
- 3.14 FIELD QUALITY CONTROL
- A. PLANTS WILL BE REJECTED IF A BALL OF EARTH SURROUNDING ROOTS HAS BEEN DISTURBED OR DAMAGED PRIOR TO OR DURING PLANTING.
- 3.15 MAINTENANCE
- A. BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING. MAINTAIN PLANTS UNTIL FINAL ACCEPTANCE, BUT FOR NOT LESS THAN 180 DAYS AFTER SUBSTANTIAL COMPLETION OF PLANTING.
 - B. MAINTAIN PLANTS BY WATERING, FERTILIZING, WEEDING, TRIMMING, AND OTHER OPERATIONS SUCH AS REGRADING AND REPLANTING, AS REQUIRED TO ESTABLISH ACCEPTABLE PLANTS. SPRAY AS REQUIRED TO KEEP PLANTS FREE OF INSECT PESTS AND PLANT DISEASES.
 - C. WATER FIELD-GROWN PLANTS DAILY FOR 30 DAYS, EVERY OTHER DAY FOR 150 DAYS, AND WEEKLY THEREAFTER. APPLY 3 GALLONS OF WATER PER CALIPER INCH. DO NOT WATER IF ROOTBALL IS WET ON WATERING DAY.
 - D. REPLACE MULCH WHEN DETERIORATED.
 - E. MAINTAIN WRAPPINGS, GUYS, STAKES AND TIES. REPAIR OR REPLACE ACCESSORIES WHEN REQUIRED.
- 3.14 DISPOSAL OF WASTE
- A. REMOVE AND LEGALLY DISPOSE OF SURPLUS SOIL AND WASTE MATERIAL, INCLUDING EXCESS SUBSOIL, UNSUITABLE SOIL, TRASH, DEBRIS, AND CONTAMINATED MATERIALS, OFF PROJECT SITE. DO NOT USE WASTE MATERIAL AS BACKFILL OR IN PLANTING SOIL MIXTURES. BURNING IS NOT PERMITTED ON PROJECT SITE.
 - B. REMOVE TEMPORARY SUPPORTS, SUCH AS STAKES, BRACES, CLEATS, STRAPS, AND NAILS, ONCE PLANTS BECOME ESTABLISHED AND SELF-SUPPORTING, BUT NOT SOONER THAN 90 DAYS PER INCH OF TRUNK CALIPER AFTER PLANTING, WHETHER OCCURRING DURING OR AFTER SPECIFIED MAINTENANCE PERIOD.
- 3.15 CLEANUP AND PROTECTION
- A. KEEP PAVEMENTS CLEAN AND WORK AREA IN AN ORDERLY CONDITION. PROTECT WORK AGAINST DAMAGE DUE TO PLANTING OPERATIONS, OPERATIONS BY OTHERS, AND ACTIONS OF TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, AND REPLACE DAMAGED WORK AS DIRECTED.
- 3.16 ACCEPTANCE
- A. WHEN PLANTING, INCLUDING MAINTENANCE, IS COMPLETED, SCHEDULE SITE VISIT BY LANDSCAPE ARCHITECT FOR FIELD OBSERVATION TO DETERMINE ACCEPTABILITY.
 - B. WHEN OBSERVED WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL OBSERVED AGAIN BY LANDSCAPE ARCHITECT AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS PROMPTLY FROM PROJECT SITE.

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CERTIFICATE OF AUTHORIZATION NO. 4270



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FOR THE FIRM : PAOLO FERRERA
LA 6667210

PROJECT TITLE:

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LANDSCAPE MODIFICATIONS

1920 WEST AVENUE
MIAMI BEACH, FLORIDA 33139-1434

ISSUE:
NO. DATE REVISIONS BY

PROJECT INFORMATION:

PROJECT NUMBER: 2020-7026

DATE: 08/12/2020

DRAWN BY: P.F.

CHECKED BY: N.H.O.

APPROVED BY: P.F.

SCALE: AS SHOWN

SHEET TITLE:

LANDSCAPE SPECIFICATIONS

SHEET NUMBER:

L-4