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|--------------------|-----|-----------|------|
| #3 - City Comments | JEM | 4/18/26 | BY |
| #2 - City Comments | JEM | 3/10/26 | |
| #1 - City Comments | JEM | 12/10/25 | |
| REVISIONS | JEM | 9/16/25 | DATE |
| FILE NAME | | 1090BJAND | |

CAULFIELD & WHEELER, INC.
 CIVIL ENGINEERING
 LANDSCAPE ARCHITECTURE - SURVEYING
 7900 GLADES ROAD, SUITE 100
 BOCA RATON, FLORIDA 33434
 PHONE (561) 392-1991 / FAX (561) 750-1452

2419 N. FEDERAL
 LANDSCAPE PLAN
 DELRAY BEACH, FLORIDA

DATE 05/13/25
 DRAWN BY JEM
 F.B. / PG. --
 SCALE 1:20
 SUBMITTED BY:
 G. ALLAN HENDRICKS
 LANDSCAPE ARCHITECT
 No. LA6666974
 STATE OF FLORIDA
 -FOR THE FIRM-
 DATE

JOB # 10908
 SHIT.NO.
 LP-2
 OF 4 SHEETS

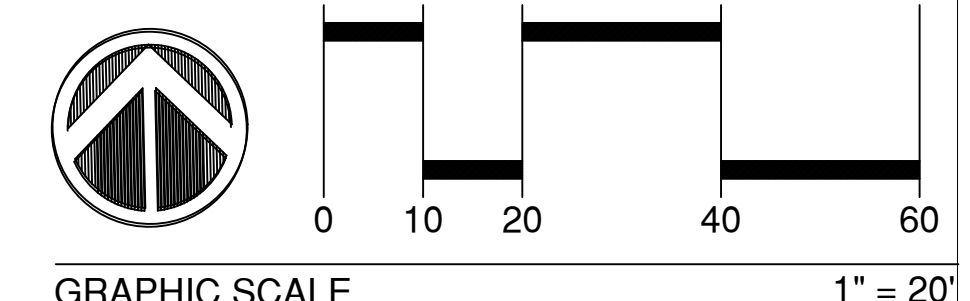
LANDSCAPE LIST

| SYMBOL | QUAN. | TREES/PALMS PROPOSED MATERIAL | SPECIFICATIONS | NATIVE | APPLY TOWARDS (native tree) REQUIREMENT | APPLY TOWARDS PERIMETER REQUIREMENT | APPLY TOWARDS CODE REQUIREMENT | APPLY TOWARDS MITIGATION (trees) REQUIREMENT | APPLY TOWARDS MITIGATION (palms) REQUIREMENT |
|----------|-------|--|---|--------|---|---|--------------------------------------|--|--|
| BSm | 20 | *Bursera simaruba GUMBO LIMBO (mitigation) | 16' HT. X 7' SPR. 3" CAL. F.G. | Y | 13 | 9 | 11 | | |
| CD | 13 | *Coccoloba diversifolia PIGEON PLUM | 16' HT. X 7' SPR. 3" CAL. F.G. | Y | 13 | | 13 | | |
| CL | 20 | *Chrysophyllum oliviforme SANTAL LEAF | 16' HT. X 7' SPR. 3" CAL. F.G. | Y | 20 | 20 | | | |
| CI | 6 | *Conocarpus erectus 'sericeus' SILVER BUTTWOOD | 16' HT. X 7' SPR. 3" CAL. F.G. | Y | 6 | | | 6 | |
| CV | 8 | Caesalpinia granadillo BRIDAL VEIL | 16' HT. X 8' SPR. 3" CAL. F.G. F.F. | | | | | 8 | |
| CR | 23 | *Clusia rosea PITCH APPLE TREE | 20' HT. X 7' SPR. 4" CAL. F.G. FULL | Y | 23 | 21 | 2 | | |
| CS | 18 | *Cordia sebestena ORANGE GEIGER TREE | 16' HT. X 7' SPR. 3" CAL. F.G. | Y | 18 | | 18 | | |
| DRm | 6 | Delonix regia ROYAL POINCIANA (mitigation) | 16' HT. X 7' SPR. 3" CAL. F.G., F.F. | | | | | | |
| IC | 5 | *Ilex cassine DAHOON HOLLY | 16' HT. X 7' SPR. 3" CAL. F.G. | Y | 5 | | 5 | | |
| SM | 12 | *Sweletaria mahogany MAHOGANY | 16' HT. X 7' SPR. 3" CAL. F.G. | Y | 12 | | 12 | | |
| PD | 2 | Phoenix canariensis CANARY ISLAND DATE PALM | 16' O.A. HT., SINGLE F.G. | | | | 2 (1:1) | | |
| PE | 60 | *Psychosperma elegans SOLITAIRE PALM | HEIGHTS ON PLANS F.G. | | | | 8 (3:1) | | |
| QV | 12 | *Quercus virginiana CATHEDRAL OAK | 16' HT. X 7' SPR. 3" CAL. F.G. | Y | 15 | 15 | | | |
| QVr | 2 | *Quercus virginiana SOUTHERN LIVE OAK (relocated) | ROOT PRUNED RELOCATED F.G. | Y | 2 | 2 | | | |
| REm | 9 | *Roystonea regia ROYAL PALM (mitigation) | 16' O.A. HT., SINGLE F.G. (MATCHED) | Y | | | 9 (3:1) | | |
| SP | 58 | *Sabal palmetto SABAL PALM | HEIGHTS ON PLANS F.G. | Y | | | 17 (3:1) | | 7 (1:1) |
| TI | 15 | Tabebuia impetiginosa PURPLE TABEBUIA | 16' HT. X 7' SPR. 3" CAL. F.G. | | | | 15 | | |
| VD | 28 | Vetichia macdanielii SUNSHINE PALM | HEIGHTS ON PLANS F.G. | | | | | 1 (1:1) | |
| VM3 | 12 | Vetichia montgomeryana TRIPLE MONTGOMERY PALM | TRIPLE PALM 16' 16' 16' F.G. | | | | 4 (3:1) | | |
| | | *Native Florida Tree | | | | | | | |
| required | | | | | 54 trees(50%) | 67 trees | 41 trees | 26 | 8 (1:1) |
| provided | | | | | 134 trees(50+%) | 67 trees | 72 trees | 26 | 8 (1:1) |

| SYMBOL | QUAN. | SHRUBS ACCENTS AND GROUNDCOVERS PROPOSED MATERIAL | SPECIFICATIONS | SQUARE FEET |
|--------|-------------|---|--|----------------|
| AA | 24 | Agave americana CENTURY PLANT | 3' HT. 3" SPR. 15 GAL. | 220 sq. ft. |
| BG | 390 | Bougainvillea 'New River' PURPLE BOUGAINVILLEA | 18" HT. X 18" SPR. / 24" O.C. 3 GAL. | 1,648 sq. ft. |
| CES | 108 | *Conocarpus erectus var. sericeus SILVER BUTTWOOD | 36" HT. X 24" SPR. / 30" O.C. 7 GAL. | 424 sq. ft. |
| CF | 48 | Cordyline frutescens 'Red Sister' TI PLANT | 4' O.A. HT. 4PP 3 GAL. | 240 sq. ft. |
| CG | 288 | Clusia guttata SMALL LEAF CLUSIA | 36" HT. X 24" SPR. / 30" O.C. 7 GAL. | 1,528 sq. ft. |
| CI | 212 | *Chrysobalanus icaco 'Red Tip' RED TIP COCOPLUM | 36" HT. X 24" SPR. / 30" O.C. 7 GAL. | 608 sq. ft. |
| DR | 24 | Dracaena marginata DRAGON TREE | 4' O.A. HT. 4PP 7 GAL. | 28 sq. ft. |
| EF | 6 | Eugenia POM POM TOPIARY | 5' O.A. HT. 5-7 POM-POMS | 18 sq. ft. |
| FM | 5584 | Ficus microcarpa 'Green Island' GREEN ISLAND FICUS | 15" HT. X 15" SPR. / 15" O.C. 1 GAL. | 3,438 sq. ft. |
| HP | 350 | *Hamelia patens FIRE BUSH | 24" HT. X 18" SPR. / 24" O.C. 3 GAL. | 712 sq. ft. |
| HR | 24 | Hibiscus rosa sinensis RED HIBISCUS | 4' HT. O.A. 7 GAL. STANDARD | 69 sq. ft. |
| HC | 24 | Hibiscus rosa sinensis CORAL HIBISCUS | 4' HT. O.A. 7 GAL. STANDARD | 69 sq. ft. |
| LI | 13 | Lagerstroemia indica 'Muskoegee' MUSKOGEE CRAP MYRTLE | 12" HT. X 4" SPR. Multi. F.G. | 51 sq. ft. |
| LM | 1403 | Liriodie muscari LIRIOPE | 12" HT. X 12" SPR. / 12" O.C. 1 GAL. FULL | 424 sq. ft. |
| NF | 718 | Nephrolepis biserrata MACHO FERN | 18" HT. X 18" SPR. / 24" O.C. 3 GAL. FULL | 1,257 sq. ft. |
| PB | 434 | Philodendron burle marxii BURL MARX PHLODENDRON | 18" HT. X 18" SPR. / 24" O.C. 3 GAL. | 802 sq. ft. |
| PM | 90 | Podocarpus macrophyllus PODOCARPUS | 36" HT. X 24" SPR. / 30" O.C. 7 GAL. | 212 sq. ft. |
| PV | 1034 | Pittosporum tobira 'Variegata' PITTIOSPORUM VARIEGATA | 18" HT. X 18" SPR. / 24" O.C. 3 GAL. | 552 sq. ft. |
| SS | 442 | Sansevieria trifasciata DARK GREEN SNAKE PLANT | 24" HT. X 15" SPR. / 18" O.C. 3 GAL. | 782 sq. ft. |
| TA | 1044 | Trachelospermum asiaticum ASIATIC JASMINE | 6" HT. X 12" SPR. / 12" O.C. 1 GAL. | 661 sq. ft. |
| TD | 564 | Tabernaemontana divaricata PINWHEEL JASMINE | 18" HT. X 18" SPR. / 24" O.C. 3 GAL. | 1,104 sq. ft. |
| TR | 19 | *Thrinax radiata FLORIDA THATCH PALM | 10' O.A. HT., DOUBLE F.G. | 1,104 sq. ft. |
| SOD | As Required | Stenotaphrum secundatum 'Floratum' ST. AUGUSTINE GRASS | SOLID EVEN SOD | 12,500 sq. ft. |
| | | *Native Florida Plant | | |

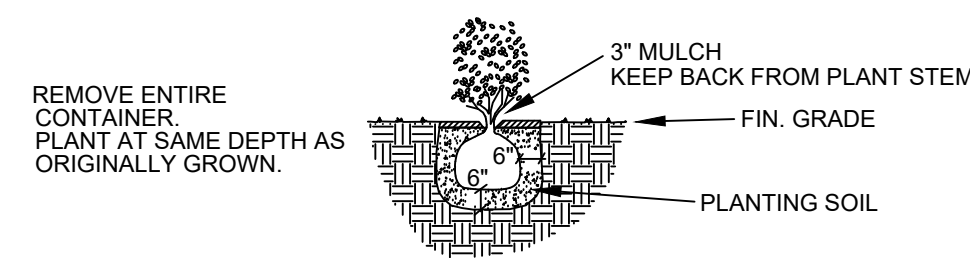
| LANDSCAPE LEGEND Information Required to be Permanently Affixed to Plan CITY OF DELRAY BEACH CODE REQUIREMENTS | | SITE AREA 4.38 AC |
|--|--|-------------------|
| A. TOTAL LOT AREA | | 185,134 SF |
| B. TOTAL STRUCTURES, PARKING, WALKWAYS, DRIVES ETC. | | 135,873 SF |
| C. TOTAL PERVIOUS LOT AREA (C = A - B) | | 49,261 SF |
| D. AREA OF SHRUBS AND GROUND COVER PROVIDED (D = C x .30) | | 14,779 SF |
| E. AREA OF SHRUBS AND GROUND COVER PROVIDED | | 22,482 SF |
| F. NATIVE VEGETATION REQUIRED (F = D X .25) | | 3,695 SF |
| G. NATIVE VEGETATION PROVIDED | | 5,432 SF |
| H. TOTAL PAVED VEHICULAR USE AREA | | 50,684 SF |
| I. TOTAL INTERIOR LANDSCAPE AREA REQUIRED (I = H x .10) | | 5,068 SF |
| J. TOTAL INTERIOR LANDSCAPE AREA PROVIDED | | 16,046 SF |
| K. TOTAL INTERIOR SHADE TREES REQUIRED (K = I / 125 SF) | | 41 TREES |
| L. TOTAL INTERIOR SHADE TREES PROVIDED | | 54 TREES |
| M. TOTAL LINEAR FEET SURROUNDING PARKING OF VEHICULAR USE AREAS | | 2,334 LF |
| N. TOTAL NUMBER OF PERIMETER TREES REQUIRED NORTH = 211 LF / 25 LF = 9 TREES SOUTH = 421 LF / 25 LF = 17 TREES EAST = 634 LF / 30 LF = 21 TREES WEST = 600 LF / 30 LF = 20 TREES | | 67 TREES |
| O. TOTAL NUMBER OF PERIMETER TREES PROVIDED | | 67 TREES |
| P. TOTAL NUMBER OF TREES TO BE PRESERVED | | 2 TREES |
| Q. TOTAL NUMBER OF NATIVE TREES PROVIDED Q = (K+N)X .50 | | 54 TREES |
| R. TOTAL NUMBER OF NATIVE TREES REQUIRED | | 124 TREES |
| S. TOTAL NUMBER OF TREES ON PLAN PROVIDED | | 145 TREES |

SEE LANDSCAPE LIST



MATCHLINE
 SEE SHEET L-3

NOTE:
INSTALL PLANTS WITH ADEQUATE SETBACK TO ALLOW FOR MATURE GROWTH WITHOUT INTERFERENCE BETWEEN PLANT GROWTH TYPES, AND WITHOUT OVERLAPPING PAVEMENT, STRUCTURES, ETC.

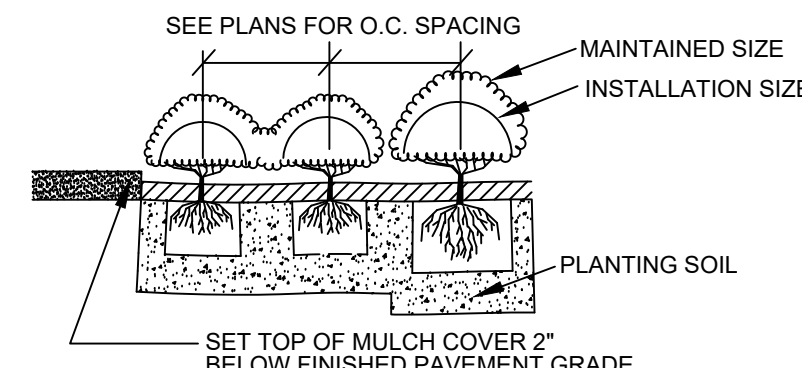


SHRUB PLANTING DETAIL

NOT TO SCALE

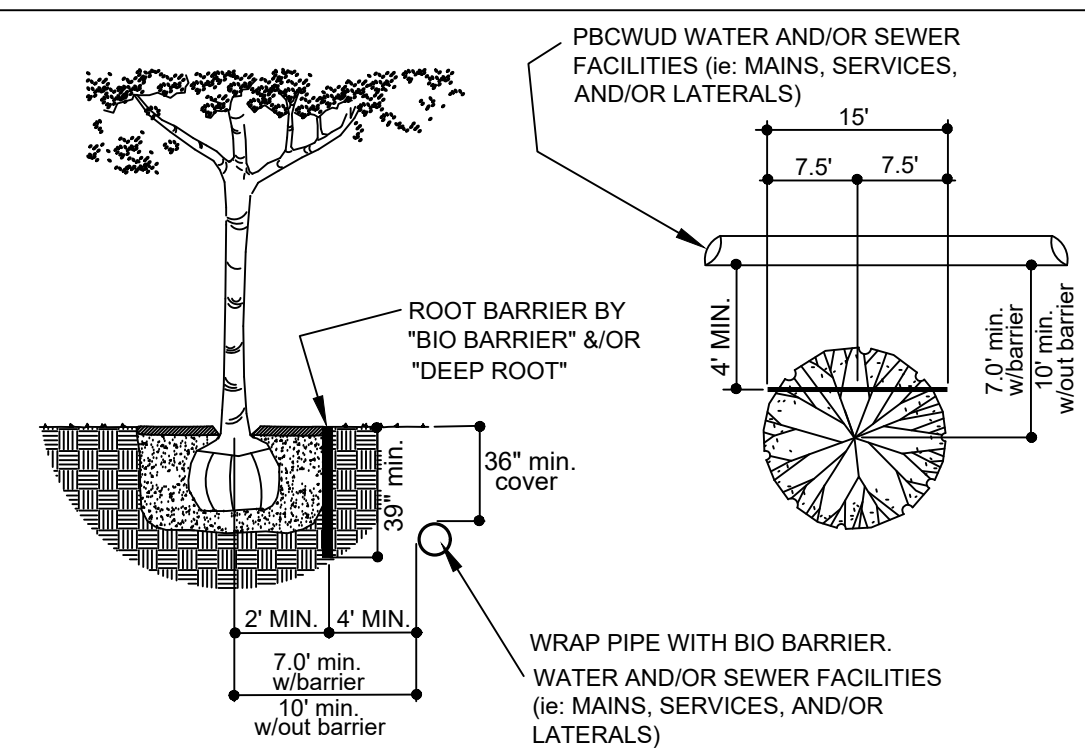
NOTES

1. INSTALL PLANTS WITH ADEQUATE SETBACK TO INSURE GROWTH WITHOUT INTERFERENCE BETWEEN PLANT GROWTH TYPES, AND WITHOUT OVERLAPPING PAVEMENT, STRUCTURES, ETC.
2. INSTALL PLANTS IN SHRUB MASSES USING TRIANGULAR SPACING UNLESS OTHERWISE NOTED.



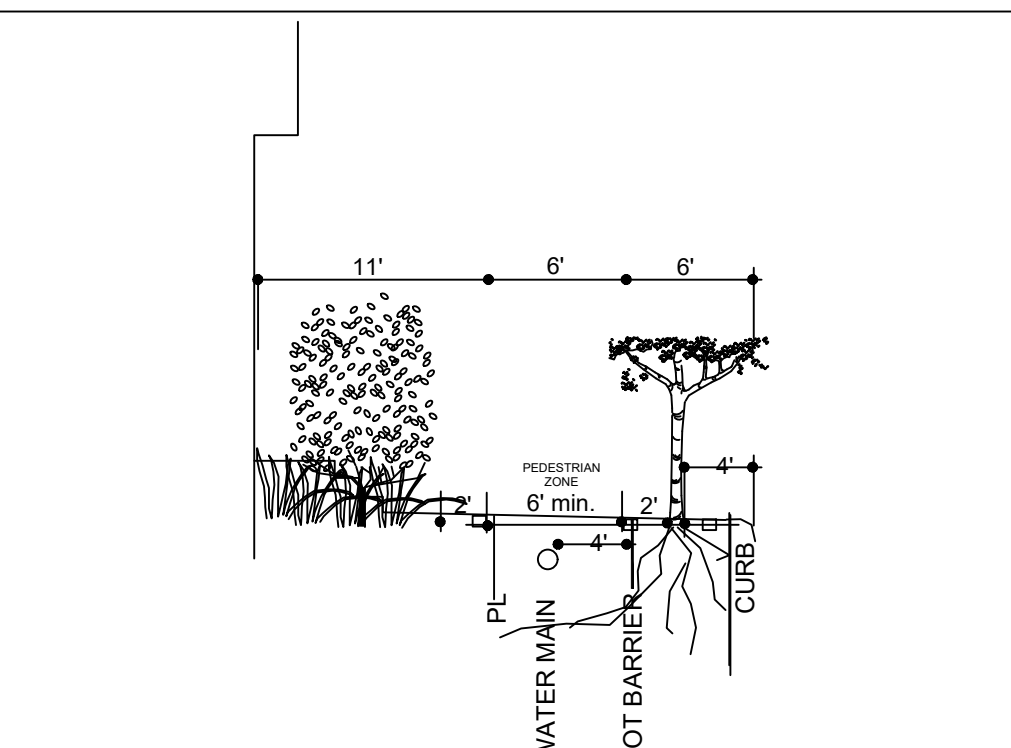
SHRUB SPACING

NOT TO SCALE



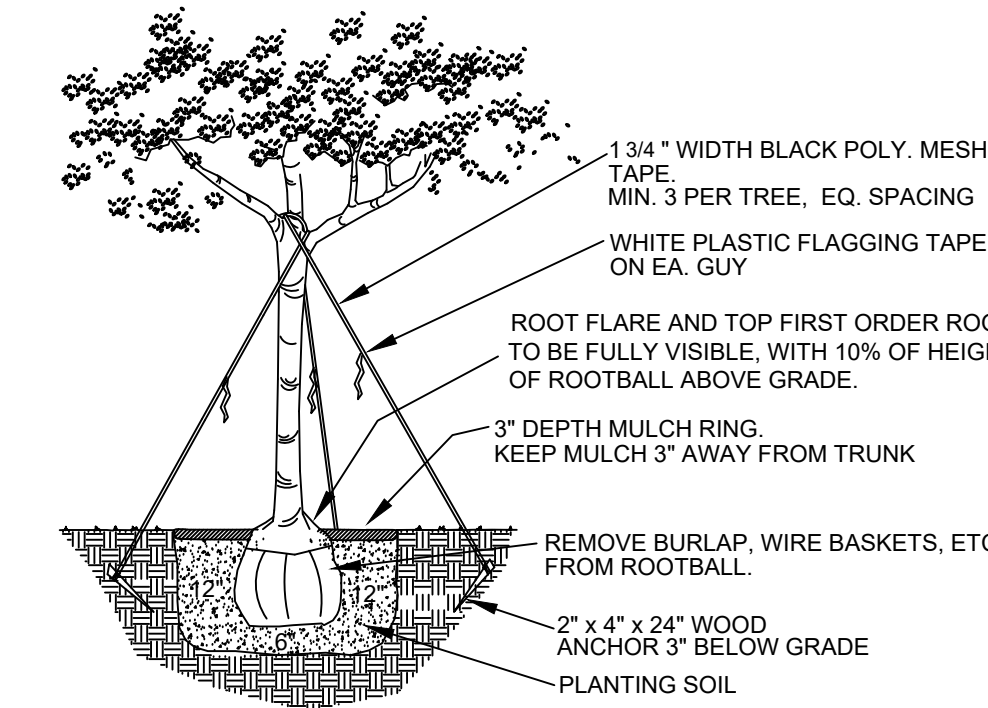
ROOT BARRIER DETAIL

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SIDEWALK SECTION

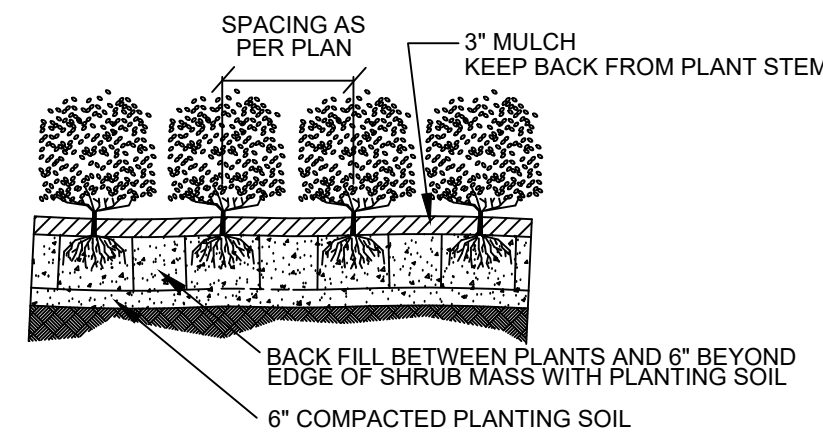
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TREE PLANTING DETAIL

NOTE: MULTI-TRUNK TREE PLANTING SIMILAR

N.T.S.

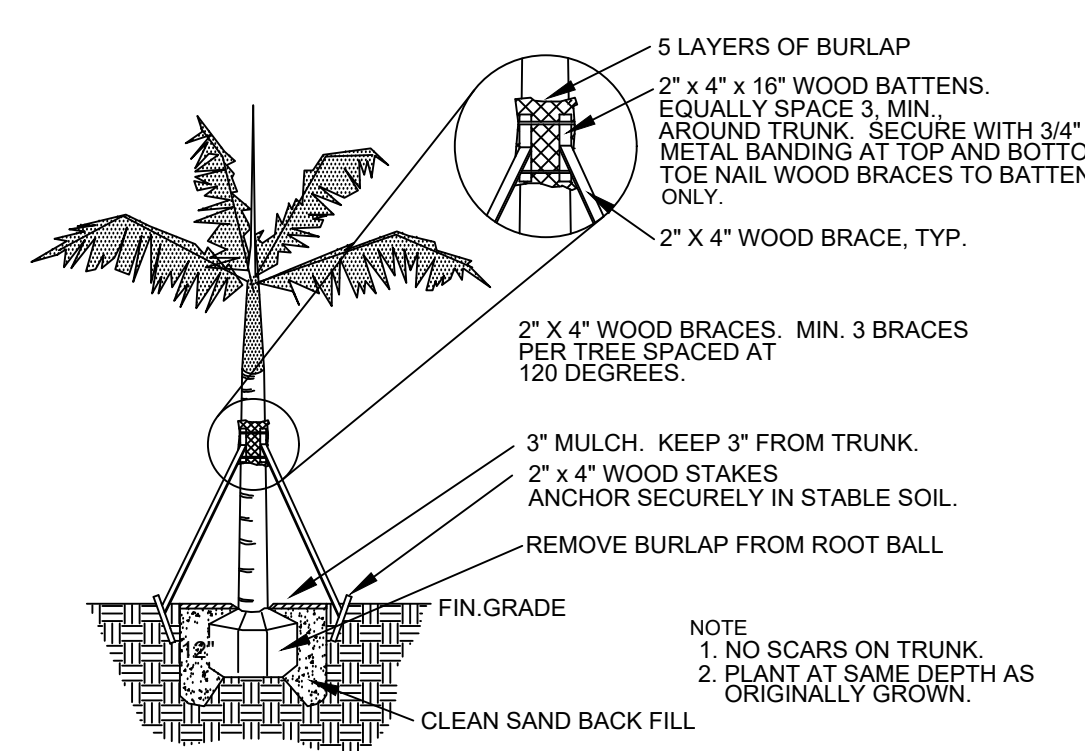


NOTE

PLANT AT SAME DEPTH AS ORIGINALLY GROWN

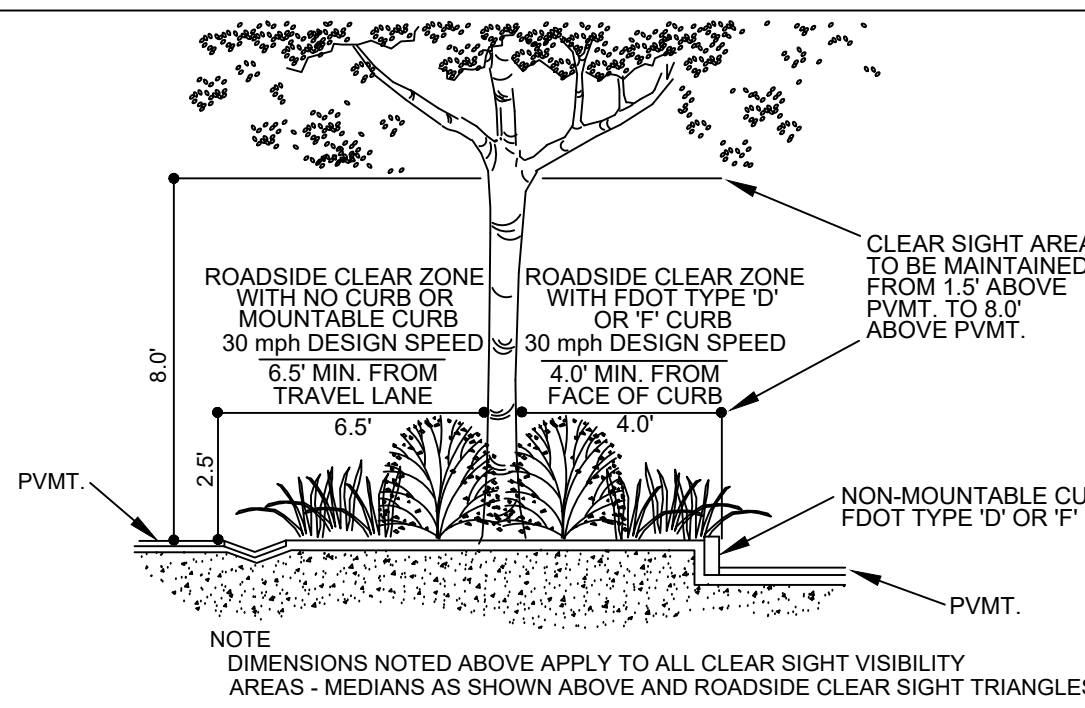
SHRUB MASS PLANTING

NOT TO SCALE



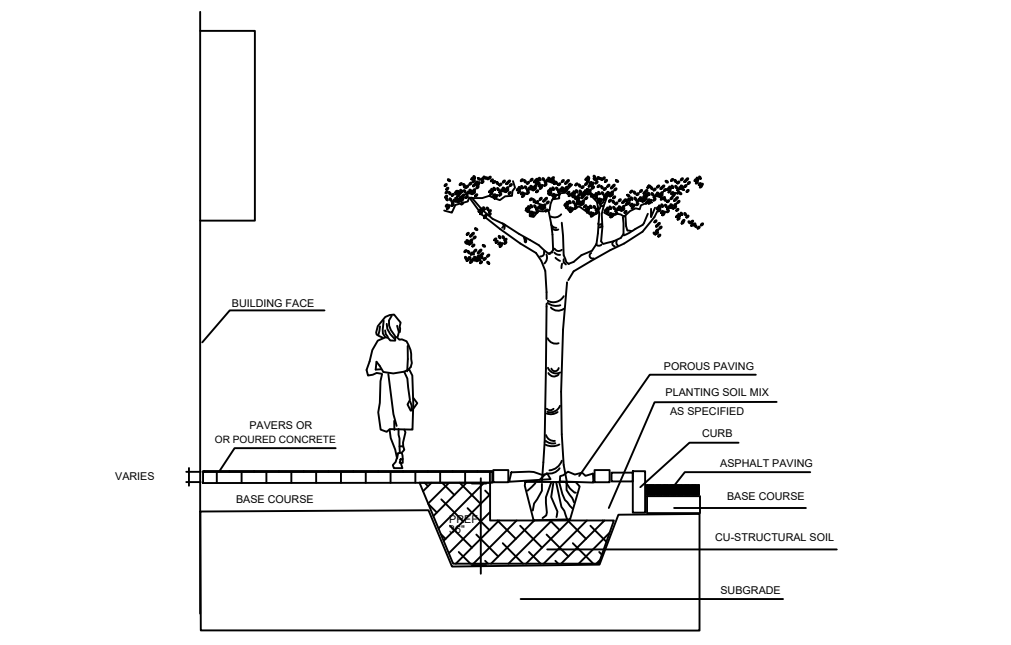
DATE PALM PLANTING DETAIL

NOT TO SCALE



SECTION CLEAR SIGHT AREA WITHIN THE SAFE SIGHT DISTANCE TRIANGLE & ROADSIDE CLEAR ZONE

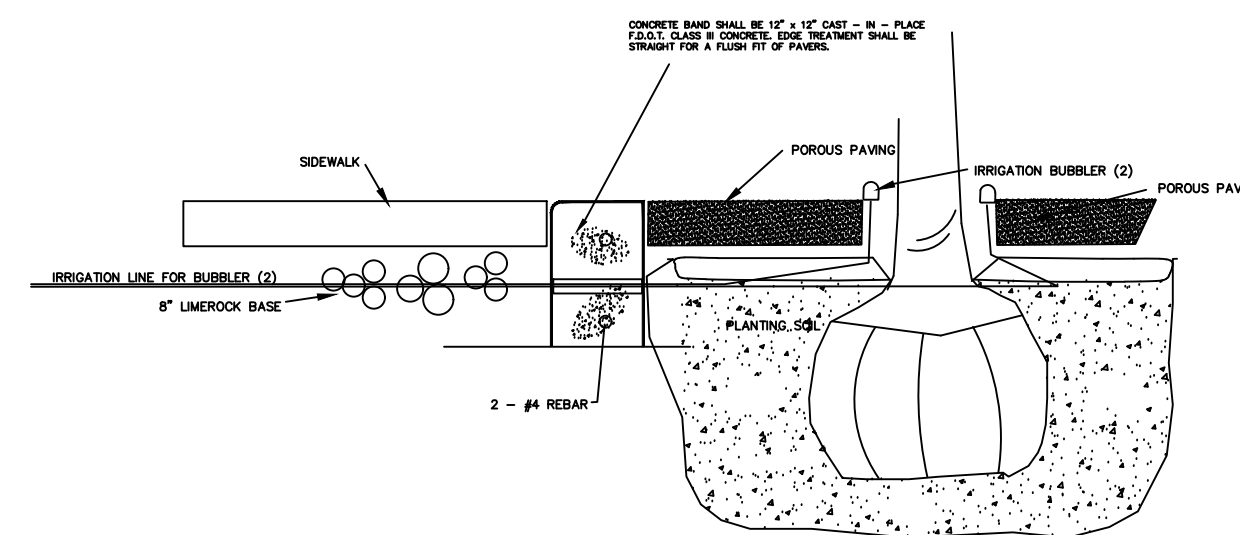
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CROSS SECTION OF TYPICAL TREE INSTALLATION INTO CU-STRUCTURAL SOIL. NOTE: WHERE THE TREE PIT IS OPEN, TOPSOIL SHOULD BE PLACED AROUND THE TREE BALL. CU-STRUCTURAL SOIL SHOULD BE PLACED UNDER THE BALL TO PREVENT BALL SUBSIDENCE.

STRUCTURAL SOIL DETAIL

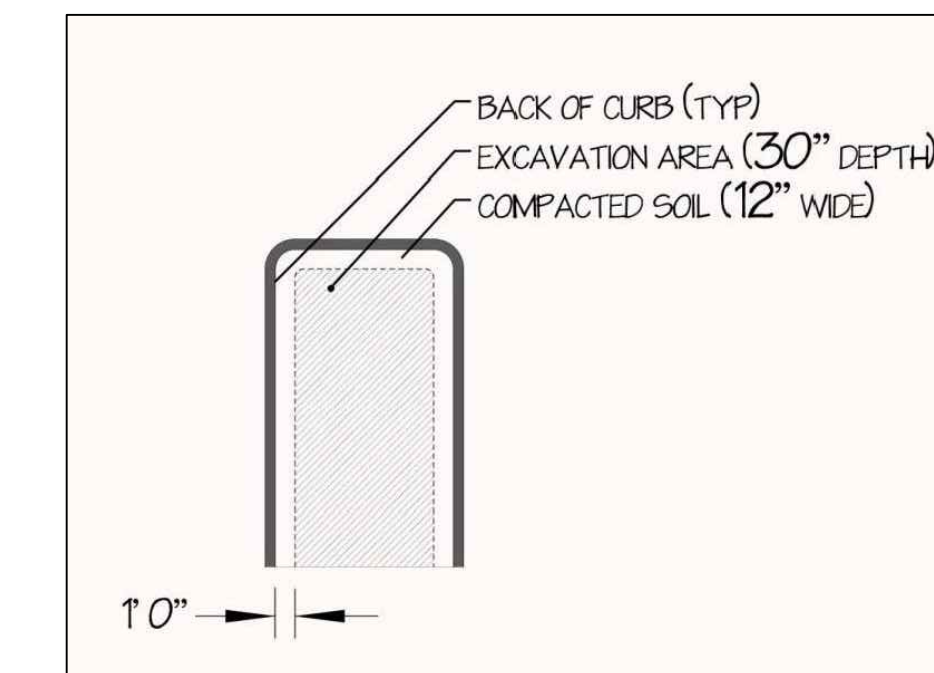
N.T.S.



STREET TREE PLANTING DETAIL

BRACE TREES WITH WOOD, PAINTED FOREST GREEN.

N.T.S.



EXCAVATION DETAIL

N.T.S.

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 30 inches below existing grade, except for a 12-inch buffer from the inside of curb or pavement (see diagram below). A suitable planting soil mixture of 50/50, 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. If native soil is to be mixed, it shall first be screened to remove rocks and debris larger than one-half inch in diameter prior to mixing. 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 met. [Amnd. Ord. 6-12 2/21/12]

LANDSCAPE NOTES

1. ALL LANDSCAPE AND SPECIFICATIONS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS PROVIDED BY CITY OF DELRAY BEACH LAND DEVELOPMENT REGULATIONS.
2. ALL PLANTING MATERIAL SHALL MEET OR EXCEED FLORIDA GRADE #1 AS SPECIFIED IN GRADES AND STANDARDS FOR NURSERY PLANTS, CURRENT EDITION.
3. ALL SIZES SHOWN FOR PLANT MATERIAL ON THE PLAN ARE TO BE CONSIDERED AS MINIMUMS. ALL PLANT MATERIAL MUST MEET OR EXCEED THESE MINIMUM REQUIREMENTS FOR BOTH HEIGHT AND SPREAD. ANY OTHER REQUIREMENTS FOR SPECIFIC SHAPE OR EFFECT AS NOTED ON THE PLAN WILL ALSO BE REQUIRED FOR ACCEPTANCE.
4. LANDSCAPE SHALL BE PLACED TO EDGE OF ABUTTING STREETS, CANALS, LAKES OR OTHER LANDS.
5. ALL MECHANICAL EQUIPMENT, AIR CONDITIONING, IRRIGATION PUMP STATIONS AND EQUIPMENT, FPL TRANSFORMERS, POOL PUMPS, ETC. MUST BE SCREENED ON THREE (3) SIDES BY LANDSCAPE SHRUBS. NOTE: THE QUANTITY OF SCREENING SHRUBS MAY BE IN ADDITION TO THE REQUIRED NUMBER OF SHRUBS AS PROVIDED IN THE CODE CALCULATION TABLE. ALL SCREENING SHRUBS SHALL BE PLANTED FOR PROPER OPERATION OF EQUIPMENT BEING SCREENED AND/OR PER THE REQUIREMENTS OF THE UTILITY AS NECESSARY.
6. GUYING/STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES, ETC. TO PENETRATE OUTER SURFACES OF TREES, PALMS OR OTHER PLANTED MATERIAL. TREES, PALMS AND PLANT MATERIAL WILL BE REJECTED DUE TO THIS PRACTICE.
7. BURLAP MATERIAL, WIRE CAGES, PLASTIC/CANVAS STRAPS, ETC. MUST BE CUT AND REMOVED FOR THE TOP ONE-HALF (1/2) DEPTH OF THE ROOT BALL. TREES AND SHRUBS GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE SUCH MATERIAL REMOVED ENTIRELY PRIOR TO PLANTING THE TREE OR SHRUB.
8. ALL PLANT MATERIAL SHALL BE FREE OF PESTS, INSECTS, DISEASE, WEEDS, ETC.
9. ALL PLANT MATERIAL SHALL BE PLANTED AT THE PROPER DEPTHS, AS ORIGINALLY GROWN AND/OR SO THE TOP OF THE ROOT BALL IS FLUSH OR SLIGHTLY ABOVE FINISHED GRADE IMMEDIATELY AFTER PLANTING. ALL TREES SHOULD PROVIDE TRUNK TAPER WHEN PROPERLY PLANTED AT THE CORRECT PLANTING DEPTH.
10. ALL PLANT MATERIAL SHALL BE WATERED IN AT TIME OF PLANTING TO ELIMINATE AIR POCKETS IN THE ROOT ZONE AREA.
11. UPON COMPLETION OF WORK, THE SITE SHALL BE CLEARED OF ALL DEBRIS, SUPERFLUOUS MATERIALS, AND EQUIPMENT CAUSED BY THIS PERMIT.
12. ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH AN UNDERGROUND FULLY AUTOMATIC IRRIGATION SYSTEM USING POP-UP SPRINKLERS. SYSTEM SHALL PROVIDE 100% COVERAGE WITH A 50% OVERLAP (MINIMUM) USING RUST-FREE WATER, EXCEPT ANY PRESERVED AREAS REMAINING IN NATURAL STATE. A RAIN SENSOR DEVICE OR SWITCH SHALL BE INSTALLED THAT WILL OVERRIDE THE IRRIGATION SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED. WATER SHALL NOT BE DIRECTED AND/OR PROVIDED ONTO IMPERVIOUS SURFACES AND/OR BE DESIGNED OR INSTALLED TO THROW WATER OVER AN IMPERVIOUS SURFACE SUCH AS A SIDEWALK, ETC. HOURS OF OPERATION FOR ALL IRRIGATION SYSTEMS SHALL BE LIMITED TO 5:00 P.M. TO 8:00 A.M. ONLY OR AS MAY BE FURTHER RESTRICTED BY SOUTH FLORIDA WATER MANAGEMENT DISTRICT OR OTHER JURISDICTIONAL AGENCY.
13. ALL PLANT MATERIAL AND WORK SHALL BE GUARANTEED FOR ONE-YEAR FROM FULLY EXECUTED SUBSTANTIAL COMPLETION CERTIFICATE. DURING THE ONE YEAR GUARANTEE, ANY PLANT MATERIAL THAT DIES OR IS IN AN UNHEALTHY CONDITION SHALL BE REPLACED WITH THE SAME PLANT TYPE AT LEAST EQUAL TO THE SIZE AND QUALITY ORIGINALLY SPECIFIED. THE REPLACEMENT MATERIAL SHALL ALSO BE GUARANTEED FOR ONE YEAR FROM THE DATE OF ITS INSTALLATION. THE GUARANTEE WILL BE NULL AND VOID IF PLANT MATERIAL IS DAMAGED OR KILLED BY LIGHTNING, HURRICANE FORCE WINDS, HAIL OR FREEZE.
14. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THERE ARE NOT CONFLICTS WITH ABOVE OR BELOW GROUND UTILITIES PRIOR TO COMMENCING LANDSCAPE INSTALLATION. NOTIFY OWNER IF CONFLICTS EXIST.
15. ANY TREES TO REMAIN SHALL BE PRUNED IN SUCH A WAY TO PROMOTE PROPER HORTICULTURAL AND NATURAL TREE GROWTH.
16. ALL TREES AND PALMS SHALL BE PLACED A MINIMUM OF 5' FROM UNDERGROUND UTILITIES.
17. GROUND COVERS SHALL BE SPACED AS NOTED OR TO INSURE GROUND COVER WITHIN 6 MONTHS OF PLANTING.
18. ALL EXISTING PLANTING BED SOILS SHALL BE REPLACED TO A DEPTH OF 30 INCHES.
19. MULCH SHALL BE EUCALYPTUS OR MELALEUCA MULCH. ALL TREES ARE TO HAVE A 30" RING COVERED WITH A 3" LAYER OF COMPACTED MULCH. ALL SHRUB BEDS WITH A 3" LAYER OF COMPACTED MULCH.
20. ALL PLANT MATERIAL SHALL BE FERTILIZED WITH A TABLET FORM BALANCED FERTILIZER CONTAINING MINOR ELEMENTS. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR RATES. SOD AREAS SHALL BE FERTILIZED WITH A GRANULAR FORM BALANCED FERTILIZER WITH MINOR ELEMENTS FOLLOWING MANUFACTURER'S RECOMMENDATIONS FOR RATES.
21. PLANTING SOIL SHALL BE A MIX OF 1/3 NATIVE SOIL, 1/3 CLEAN SAND & 1/3 PEAT. IF NATIVE SOIL IS UNACCEPTABLE, CONTACT LANDSCAPE ARCHITECT.
22. ALL LANDSCAPING SHALL BE INSTALLED IN A WORKMANLIKE MANNER, AND ACCORDING TO ACCEPTED GOOD PLANTING PROCEDURES WITH QUALITY PLANT MATERIALS AS HEREIN DESCRIBED.
23. ALL PROHIBITED PLANT SPECIES SHALL BE REMOVED FROM THE SITE.
24. ALL LANDSCAPE AREAS TO BE TREATED WITH PRE EMERGENT WEED CONTROL PRIOR TO MULCH INSTALLATION. ADDITIONAL WEED CONTROL SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR UNTIL FINAL SIGN OFF BY THE CITY OF DELRAY BEACH.

Porous Paving System
DESCRIPTION:
Cold applied, poured in place tree grate system that when hardened becomes a walkable surface that is porous up to a minimum of two gallons per second. Below are the standards required.

Cold applied, porous paving system designed to bind a selection of decorative aggregates, which provide a bonded, attractive and porous surface for tree pit. (ADDAPAVE TP or equivalent)

Resin-bound porous surfacing consists of aggregate, fully coated with two-part chemically curing, UV stable, flexible, crystal clear resin, hand finished by trowel. (ADDAPAVE TP or equivalent). No loose stones are acceptable. Resin must be crystal-clear in nature.

SURFACE PREPARATION:
Areas to be filled with the ADDAPAVE TP or equivalent system should be clean and dry with a minimum infill depth available of 6 inches. City of Fort Lauderdale designee must approve exceptions. Excavated area to receive the system must be properly compacted. Specially designed fabric with slow release capsules of non-penetrating weed control material shall be installed, as the first thing to go into excavated tree pit. This will prevent fine dirt particles from migrating to the surface, prevent weed growth and help deflect root growth away from the ADDAPAVE TP or equivalent.

Next a minimum of 4 inches of compactable sub-base material shall be placed and compacted followed by 3 inches of washed #57 or #67 aggregate should be applied to the base of the treated area to a depth of 3 inches (75mm) below the finished grade. Aggregates must be compacted to achieve a level/even finish.

Finally, ADDAPAVE TP or equivalent mixtures are added which consist of two aggregate size choices 6-10mm or 8-15mm. Each aggregate size and type must meet a specific mix design, which is dependant on the application. Mix designs take into account the final color desired and anticipated traffic / pedestrian usage.

Aggregates are double washed, dried, and bagged by weight to the specific weight required to meet the

The contents of container labeled Part B (Hardener) should be added to container labeled Part A (Resin) and thoroughly mixed together using a forced action mixer or similar for a minimum of 2 minutes. Refer to the Catalyst Guidance Table to determine the proper amount of catalyst which must be added to the combined mixture of Part A and B. Mix for an additional 1 minute after the addition of the catalyst. The pre weighed bags of aggregate should be placed in the suitable mechanical mixer just prior to the addition of the ADDAPAVE TP or equivalent resin. The mixed ADDAPAVE TP or equivalent resin should be immediately added to the pre-mixed aggregate in a suitable mechanical mixer. Mix for 1 minute then discharge into a suitable wheelbarrow and move immediately to the point of application. Mixing equipment shall be a pan style mortar mixer of ample size to place pre-measured aggregates and resin. Mixer shall have ample power to thoroughly blend aggregates and resin into homogeneous mixture within 1 minute. The mixture should be spread evenly across the prepared surface at the required depth. The surface should then be hand troweled using sufficient downward pressure to compact and provide for a smooth finish. Lightly broadcast clear crushed glass grit grade 300 onto the finished surface to provide increased skid resistance.

APPLICATION TEMPERATURE:
Recommended temperature of application should be between 40°F and 85°F

Maintenance Note

Any portion of a tree or palm that overhangs a travel lane shall be maintained with a min. 13'6" vertical clearance.

CU-Structural Soil
DESCRIPTION:
The structural soil material is designed as follows. The three components of the structural soil are mixed in the following proportions by weight, crushed stone: 100; clay loam: 20; hydrogel: 0.03. Total moisture at mixing should be 10% (AASHTO T-99 optimum moisture).

Crushed stone (granite or limestone) should be narrowly graded from 3/4 - 1 1/2 inch, highly angular with no fines. The clay loam should conform to the USDA soil classification system (gravel <5%, sand 25-30%, silt 20-40%, clay 25-40%). Organic matter should range between 2% and 5%. The hydrogel, a potassium propenoate-propenamide copolymer is added in a small amount to act as a tackifier, preventing separation of the stone and soil during mixing and installation. Mixing can be done on a paved surface using front end loaders. Typically the stone is spread in a layer, the dry hydrogel is spread evenly on top and the screened moist loam is the top layer. The entire pile is turned and mixed until a uniform blend is produced. The structural soil is then installed and compacted in 6 inch lifts.

In a street tree installation of such a structural soil, the potential rooting zone could extend from building face to curb, running the entire length of the street. This would ensure an adequate volume of soil to meet the long term needs of the tree. Where this entire excavation is not feasible, a trench, running continuous and parallel to the curb, eight feet wide and three feet deep would be minimally adequate for continuous street tree planting.

There will be a need to ensure moisture recharge and free gas exchange throughout the root zone. The challenge may be met by the installation of a three dimensional geo-composite (a geo-grid wrapped in textile one inch thick by eight inches wide) which could be laid above the structural soil as spokes radiating from the trunk fair opening. This is currently in the testing stage. Other previous surface treatments could also provide additional moisture recharge, as could traditional irrigation.

Call 48 hours before you dig

It's the law!
1-800-432-4770

sunshine state one call of florida, inc.

| | |
|-----------|----------|
| DATE | 05/13/25 |
| DRAWN BY | JEM |
| F.B./ PG. | -- |
| SCALE | 1:20 |

CAULFIELD & WHEELER, INC.
CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE - SURVEYING
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LANDSCAPE DETAILS
DELRAY BEACH
FLORIDA

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| SUBMITTED BY: | G. ALLAN HENDRICKS LANDSCAPE ARCHITECT No. LA6666974 STATE OF FLORIDA -FOR THE FIRM- |
| DATE | |

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|-------------|-------|
| JOB # | 10908 |
| SHT. NO. | LP-4 |
| OF 4 SHEETS | |