

**REVISIONS** Revised 12/3/18 Per City Comments, Tree Mitigation Revised 2/14/19 Per Revised Site Plan

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D.H.C.
DATE
2/7/18
SCALE
1/8"=1'-0"
JOB NO.
121517
SHEET
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1. All canopy tree's designated as relocated on the plans, are to be root-pruned for a minimum of 3 months prior to the relocation

of the root ball shall be adequate to support & sustain the viability of the individual tree. 3. All root cuts shall be "clean cuts", and the back fill material shall be well drained planting soils, or

pre-approved equal. All road rock, and undesirable fill materials shall be removed from root-prune trench. 4. Temporary irrigation shall be provided to all root-pruned trees during the root-pruning process, and after the tree's have been relocated to their location for a minimum of 4 months, or as necessary to insure their 5. The canopies of all tree's shall be reduced by a minimum of 20% at time of root pruning.

6. All tree's shall be relocated with machinery (I.e., crane, front-end loader, tree spade, or equal) capable of handling the material without damaging any portion of the tree. The Landscape Architect will pre-approve all methods utilized for the relocation process.

7. All relocation work shall comply with the National Arborists Standards.

## REMOVAL NOTES: 1. All tree's to be removed shall be completely removed from the site.

2. The root systems, of the removals, shall be removed in such a manner to facilitate the installation of new tree's, or palms. Root system removal shall be a minimum of 24" depth, and a 6 foot diameter around the trunk.

3. TREE REMOVAL PERMITS WILL BE REQUIRED BY THE GOVERNING MUNICIPALITY, AND IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS.

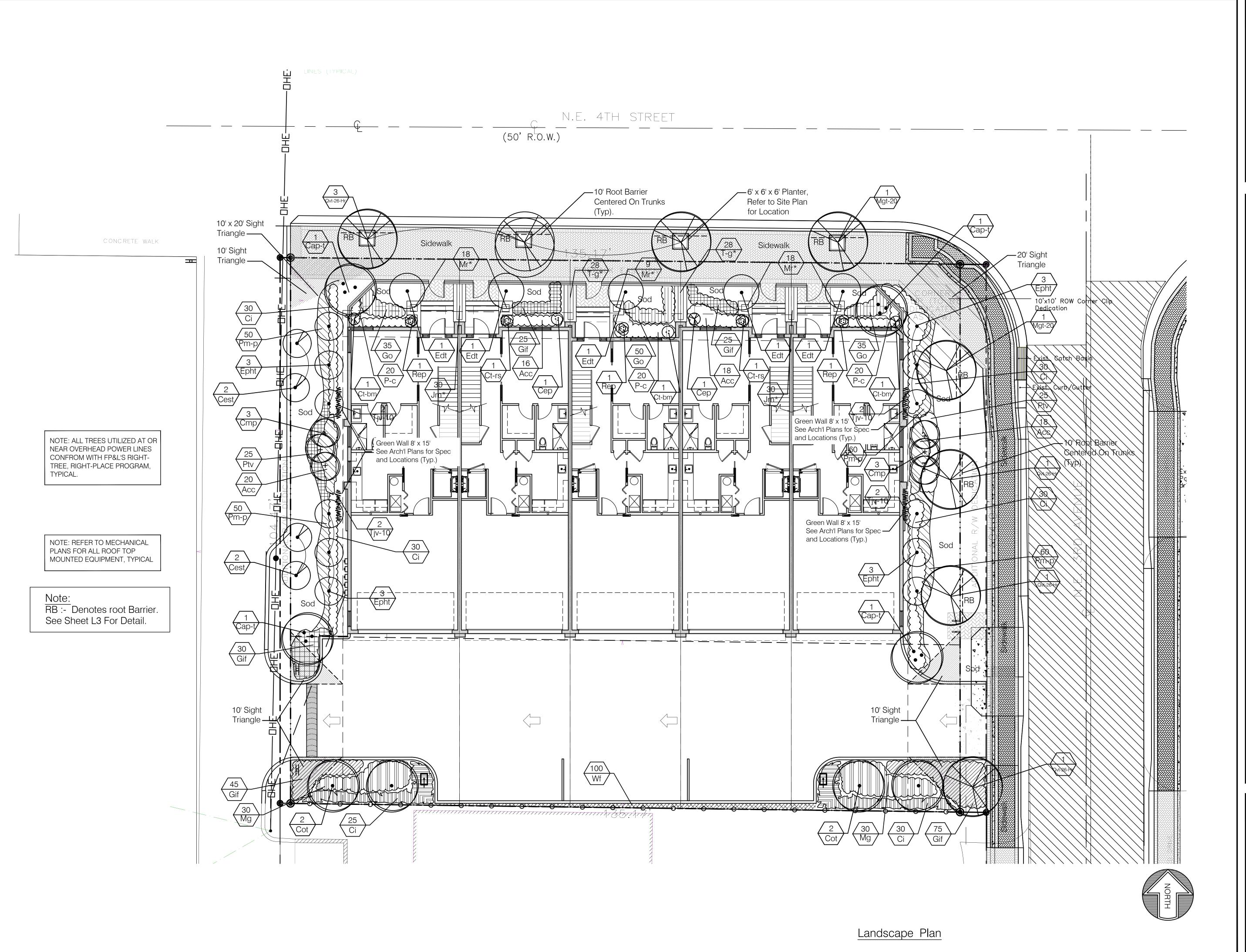
Caliper Inches So As To Maintain Caliper Sizes. All Tree Replacements Shall Be Florida #1 Grade.

ALL UNDERGROUND UTILITIES SHALL BE LOCATED PRIOR TO COMMENCING ANY WORK ON THE SITE, PER FLORIDA LAW.

New Materials To conform To City Of Delray Beach Requirements. All Tree Replacements Shall Also Replace Said Tree's

Remove All Exotic Nuisance Species, Including But Not Limited To (Fl. Holly, Australian Pine, Melaleuca, etc.) Per State and Local Zoning & Landscape Code(s).

	TREE LIST			
TREE#	SPECIES	SIZE	DISPOSITION	
1	Yucca elephantipes/ Spineless Yucca	16'	To Be Removed	
2	Bursera Simaruba/ Gumbo Limbo Tree	16x16 Multi-Stem	To Be Removed	
3	Conocarpsu E. Serecius/ Silver Buttonwood	12x12	To Be Removed	
4	Bursera Simaruba/ Gumbo Limbo Tree	12x10	To Be Removed	
5	Swietenia mahogany/ Mahogany Tree	30x30	To Be Removed	
6	Delonix reggea/ Royal Poinciana Tree	25x30	To Be Removed	
7	Swietenia mahogany/ Mahogany Tree	30x30	To Be Removed	
8	Bucida buceras/ Shady Lady Black Olive	30x20	To Be Removed	
9	Bucida buceras/ Shady Lady Black Olive	30x30	To Be Removed	
10	Thrinax/ Thatch Palm	14, 16, 18	To Be Removed	
11	Thrinax/ Thatch Palm	14, 16, 18	To Be Removed	
12	Bucida buceras/ Shady Lady Black Olive	40x40	To Be Removed	
13	Bucida buceras/ Shady Lady Black Olive	16' Multi-Stem	To Be Removed	



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CHECKED D.H.C. 2/7/18 1/8"=1'-0" 121517

QTY & MATE	RIAL		SIZE	CONDITION	MIT	IGATION F	REQUIREMENTS	
1 Gumbo limbo	tree		9.5"DBH (18x18ft.)	7	70	8 1.5	\$450.00 \$650.00	\$3,600.00 \$975.00
1 Silver button	wood tree		7"dbh (21x21ft.)	5	50	7	\$450.00	\$3,150.00
1 Gumbo limbo	tree		4"			4	\$450.00	\$1,800.00
1 Silver button	wood tree		7"dbh (21x21ft.)	5	50	7	\$450.00	\$3,150.00
1 Mahogany tre	ее		13"DBH	6	60	8 5	\$450.00 \$650.00	\$3,600.00 \$3,250.00
1 Royal poincia	ana tree		12.5"DBH	7	70	8 4.5	\$450.00 \$650.00	\$3,600.00 \$2,600.00
1 Mahogany tre	ee		16	7	70	8 8	\$450.00 \$650.00	\$3,600.00 \$5,200.00
1 Black olive to	ee		12"DBH	5	50	8 4	\$450.00 \$650.00	\$3,600.00 \$2,600.00
1 Black olive to	ee		18"DBH	7	0	8 10	\$450.00 \$650.00	\$3,600.00 \$6,500.00
3 Thatch palms	3		9-11ft.oa.	8	80			
1 Black olive to	ee		18"DBH	7	<b>7</b> 0	8 10	\$450.00 \$650.00	\$3,600.00 \$6,500.00
						Tot	al	\$60,925.00
otal Caliper Inches				97" DBH				
Code Tree Requirements		Rqrd.	Provided	Above Code F	Rgrmnt	:S		
Interior shade	е	3	4		1			
Permiter share	de	15.4	35	2			ATION DOESN'T de requirements)	

					ı	
KERIS	CAPE CALCU	<u>JLA HO</u>	<u>NS</u>			
	Required shrubs & gr	ound covers	5		1,469.20	Sq.ft.
	(30% of required inter	ior & perim	eter greens	pace)		
	Shrubs & ground cove	er provided			1,775	Sq.ft.
	Required native plant	materials			367	Sq.ft.
	(25% of required shru	bs & groun	d covers)			
	Native plant materials	provided			787	Sq.ft.
	Number of native tree	s required			8	Trees
	(50% of required trees	s)				
	Native trees provided				20	Trees

	SCAPE CALCULATIONS		
MULII	-FAMILY, COMMERCIAL, INDUSTRIAL)		
	TOTAL LOT A DE A	40.440	0 4
Α.	TOTAL LOT AREA	13,416	
В.	STRUCTURES, PARKING, WALKWAYS, DRIVES, ETC	9,684	
C.	TOTAL PERVIOUS LOT AREA	3,732	
D.	AREA OF SHRUBS & GROUND COVERS REQUIRED	1,120	Sq.ft.
	(CX.30)		
E.	AREA OF SHRUBS & GROUND COVERS PROVIDED	3,732	
F.	NATIVE VEGETAION REQUIRED	933	Sq.ft.
	(DX.25)		
G.	NATIVE VEGETAION PROVIDED	1,775	Sq.ft.
Н.	TOTAL PAVED VEHICULAR USE AREA	3,496	Sq.ft.
I.	TOTAL INTERIOR LANDSCAPE AREA REQUIRED	350	Sq.ft.
	(HX.10)		
J.	TOTAL INTERIOR LANDSCAPE AREA PROVIDED	400	Sq.ft.
K.	TOTAL INTERIOR SHADE TREES REQUIRED	3	Trees
	(1/125 SQ.FT.)		
L.	TOTAL INTERIOR SHADE TREES PROVIDED	4	Trees
Μ.	TOTAL LINEAR FEET SURROUNDING PARKING,		
	OR VEHICULAR USE AREAS	104	Lin.Ft.
N.	TOTAL NUMBER OF PERIMETER TREES REQUIRED	15.4	Trees
	( M / 30 )		
Ο.	TOTAL NUMBER OF PERIMETER TREES PROVIDED	35	Trees
Ρ.	TOTAL NUMBER OF EXTG. TREES TO BE PRESERVED		
	ON SITE	0	Trees
Q.	TOTAL NUMBER OF NATIVE TREES REQUIRED	8	Trees
	[ (K + N) X .50 }		
R.	TOTAL NUMBER OF NATIVE TREES PROVIDED	20	Trees
S.	TOTAL NUMBER OF TREES ON PLAN PROVIDED	43	Trees

Botanical / common name Qvt-26-Hr\* Quercus virginiana/ High Rise Live oak tree 26x12', 12'ct. 8" calip mtchg. specimens Magnolia grandiflora / S. Magnolia tree 20x10', 10'ct. mtchg. specimens llex spp / east palatka holly tree Epht\* 16x7' full to base, mtchg. 14x6', 7'ct. conical-shaped, mtchg. Edt Elaeocarpus decipens/Japanese blueberry tree Cot\* Chrysophyllum oliviforme/ Satin leaf 16x7', 8'ct mtchg. Carpentaria acuminenesis/Carpenters Palm 18-20'oa, trple. hvy. calip. mtchg. Chamaedorea erumpens/Bamboo palm Сер 5x3' multi stem mtchg. Raphis excelsa/ Lady palm 6'x4' hvy. mlti. mtchg. Caryota mitis/ Fishtail Palm 22-24'oa. 3-5 stems max. hvy. calip. Cmp Conocarpus E. Serecius / Silver buttonwood tree 10-12' x 5' Trachelospermum jasminoides/ Confederate jasmine vine 8x4' trellis 12" -15"3g.@15"oc. Podocarpus macorophyllus pringles/ Dwarf Chrysobalanus icaco/ Cocoplum 175 Ci\* 24"x24"@2'oc. 60 Mg\* 18"x18" @2'oc Muhlly Grass Alocassia calif. compacta/ Dwf. Alocasia 24"3g.@30"oc. Cordyline terminallis/ Black magic ti plant Ct-bm 4.5-5' hvy. multi. mtchg, Cordyline fruticosa/ red sister 4.5-5' hvy. multi. mtchg, Ct-rs Phillodendron congo/ Congo 18"3g.@2'oc. 60 P-c Spathoglottis plicata/ Ground orchid 15"2g.@18"oc. Ficus microcarpa/ Green island ficus size & length to hold 200 Gif\* 18"3g.@15" oc. braces, (24"x2"x4" min. Pittosporum tobira Variegata/ Varigated pitt 15"3g.@18"oc 100 Wf\* Polypodium scop./ Wart fern 10"1g.@1' oc. 112 T-g Tibouchina / Purple Glory groundcover 6" 1g. (28 per planter) 120 Jm\* Jasmine minima / Jasmine 10" 1g. (30 per planter)

6" 1g. (9 per planter urn)

Planting soils & mulch, see specs. & details Sod, Empire Zoysia

## GENERAL LANDSCAPE NOTES:

1. All plant material shall be F1, #1, or better, as per the latest addition of F1, Grades & standards. All "specimen" quality materials shall be F, Fancy, and shall be pre-approved by the Landscape Architect.

2. All plant materials shall be true to name & size, as per F1, Grades & Standards. Plant materials which do not meet, or exceed these standards will not be accepted. 3. Quantities, sizes, and locations of plants will be determined by the plan and material schedule. Sizes of the specified plants shall take precedence over the container size . Spacing of the ground covers will be determined by the material

responsible for the actual quantities shown on the plan. The plans will take precedence over the material schedule. Discrepancies shall be brought to the attention of the Landscape Architect, prior to commencing. 4. No substitutions shall be accepted without the Landscape Architect's written approval. All substitution requests shall be

schedule. Quantities shown on the material schedule are to be used as a guideline. The landscape contractor shall be

5. Planting soils shall be clean, sterile, and free of debris. Soil shall consist of 40% Fl. muck % 60% existing native soils, mixed thoroughly together, clean sand. Tree's shall be installed with a minimum of 6" on sides & bottom of root balls. Shrubs, plants & ground covers shall be installed with a minimum of 6" on sides & bottom of root balls. Rooted cuttings shall be installed with a minimum of 4" of planting soils worked into the top 6" of the existing soils. Sabal palms and Phoenix specie shall be installed with a clean well drained sand.

6. Milorganite, or equal, fertilizer shall be applied to all plantings, per manufactures recommendations. In addition, "Agriform" tablets (20-10-5) shall also be applied to all plants 1 gal., and above, per manufactures recommendations. 7. All tree's & palms shall be mulched with a 3ft. diameter circle. 3" minimum depth. All planting beds shall receive 3" finished depth, mulch upon completion of planting process. Mulch shall be "Pine Needle", or approved equal. NO CYPRESS MULCH SHALL BE UTILIZED ON THE PROJECT.

8. All plants shall be planted at soil levels which they were previously grown. Shrubs and hedges are to be planted 2ft. away from any wall, or structures. Materials with a six greater than overhangs shall be planted so as not to impede the natural growth habit of the plant.

9. All materials are to be watered-in immediately after planting, so as to remove all air pockets. BIB materials are to be hand-watered for a minimum of 1 week after installation, and there-after as required. Contractor shall advise the owner of any additional hand-watering requirements.

10. All tree's 8ft., or larger, are to be staked, or guyed, to provide ample support such that materials remain straight & true in an up-right position through the guarantee period. Staking & guying shall be performed at the option of the landscape contractor, except where required by code. However, the landscape contractor shall be responsible for all tree's & palms remaining straight & true through the guarantee period. In the event that a material shifts after it has been properly staked, or guyed, the landscape contractor shall not be held responsible.

11. All sod shall be "Floratam", unless otherwise specified. Sod shall be dense, green, well-rooted, and free of debris, weeds, disease, or insects. A complete 6-6-6 fertilizer shall be applied at a rate of 10lbs. per 1,000sq.ft.. Sod is to be watered to a depth of 3" immediately after installation. Grades are to be raked smooth, and all debris removed, prior to

12. All tree's, plants & ground-covers shall be guaranteed for a period of 120 days, and all palms are for a period of one year, after the date of substantial completion. Phoenix canariensis & dactylifera palms are to be maintained, per growers/suppliers recommendations, by a qualified person, or firm. Said maintenance program shall be the responsibility of

13. The landscape invoice will be deemed as rejection of the plant materials. The landscape contractor shall remove any, or all of the rejected materials from the site as their discretion.

14. The removal of "base rock" is not included in the landscape contract. 15. All grades are to be within 2" of finished grades, prior to the landscape contractor commencing work.

## NOTES:

1. All Trees, Shrubs & Plants used on this site shall conform to the requirements of "Low watering needs" materials as specified in the South Florida Water Management District's "Waterwise" publication.

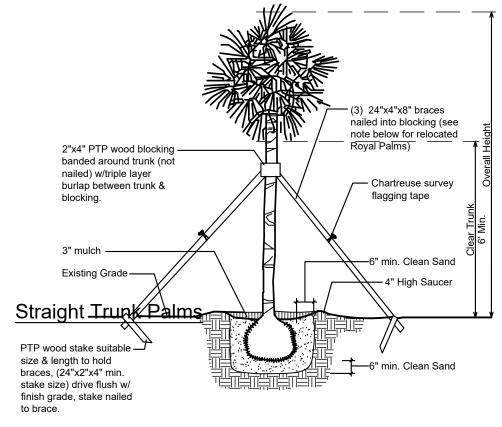
2. All proposed utility structures shall be planted on three sides with "Waterwise" Cocoplum hedges

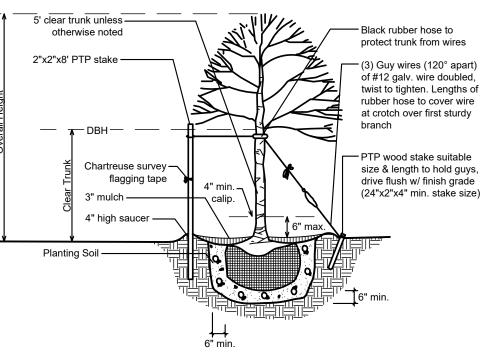
3.All landscape areas containing trees and vegetation shall be first filled with city inspected clean fill soil.

4. Clean fill. All planted areas on the site shall first be filled with clean fill to a depth of one foot from the surface along the entire length of the green space, island, or landscape buffer.

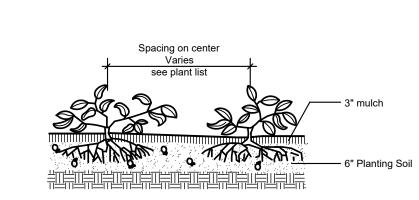
5.Inspection. The city shall inspect all clean fill, irrigation systems and landscape improvements prior to installation.

NOTE: All Landscape With-in Sight Triangles Shall Provide Unobstructed Cross-visibility At A Horizontal Level Between 30 Inches And 8 Feet, Including Trunks From Pavement.

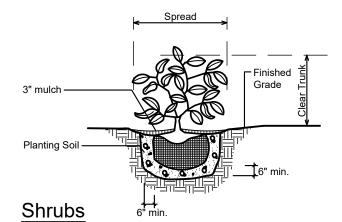


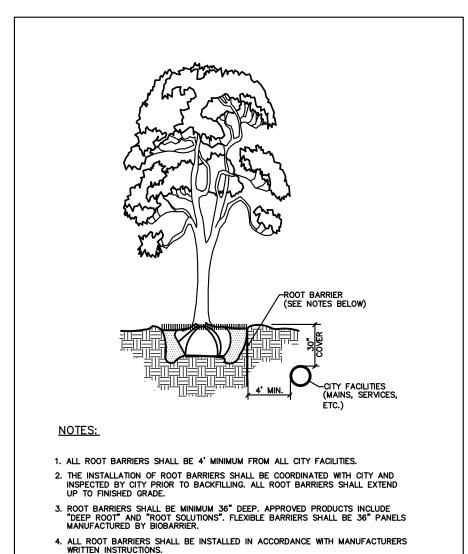


NOTE: Stake all trees up to 2' cal. @ 2 per tree. Guy all trees larger than 2' cal. Pull burlap from top of root ball. Remove all non-biodegardeable materials such as wire, twine, etc. on rootball Trees



Groundcovers

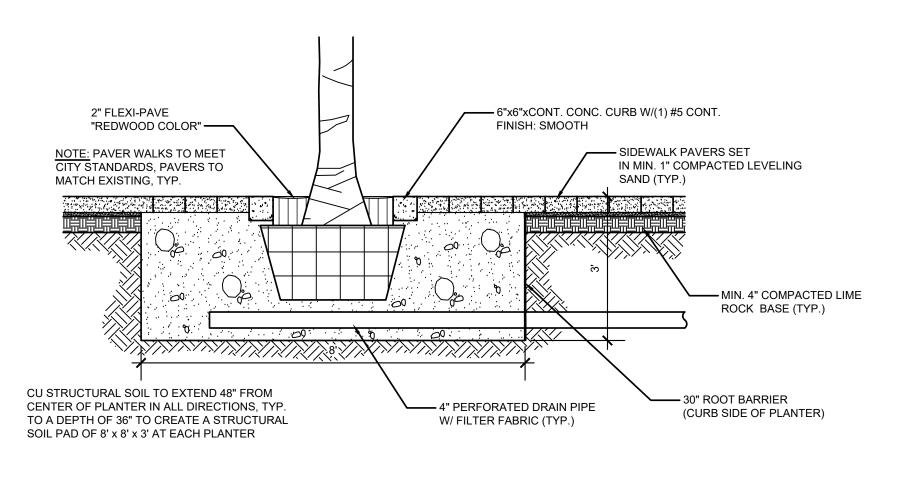




Any Trees or shrubs placed within water, sewer or drainage easements shall conform to Details L.D. 1.1 requirements.

TYPICAL TREE WITH ROOT BARRIER LD 1.1

Automatic Irrigation system to provide 100% irrigation coverage, with 100% overlap minimum, with a programmable controller and rain sensor. Shrub & Turf zones are to be separated. THERE SHALL BE NO TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE



Structural Soil Detail at Planter

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REVISIONS

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Plans

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Material Schedule & Planting Details