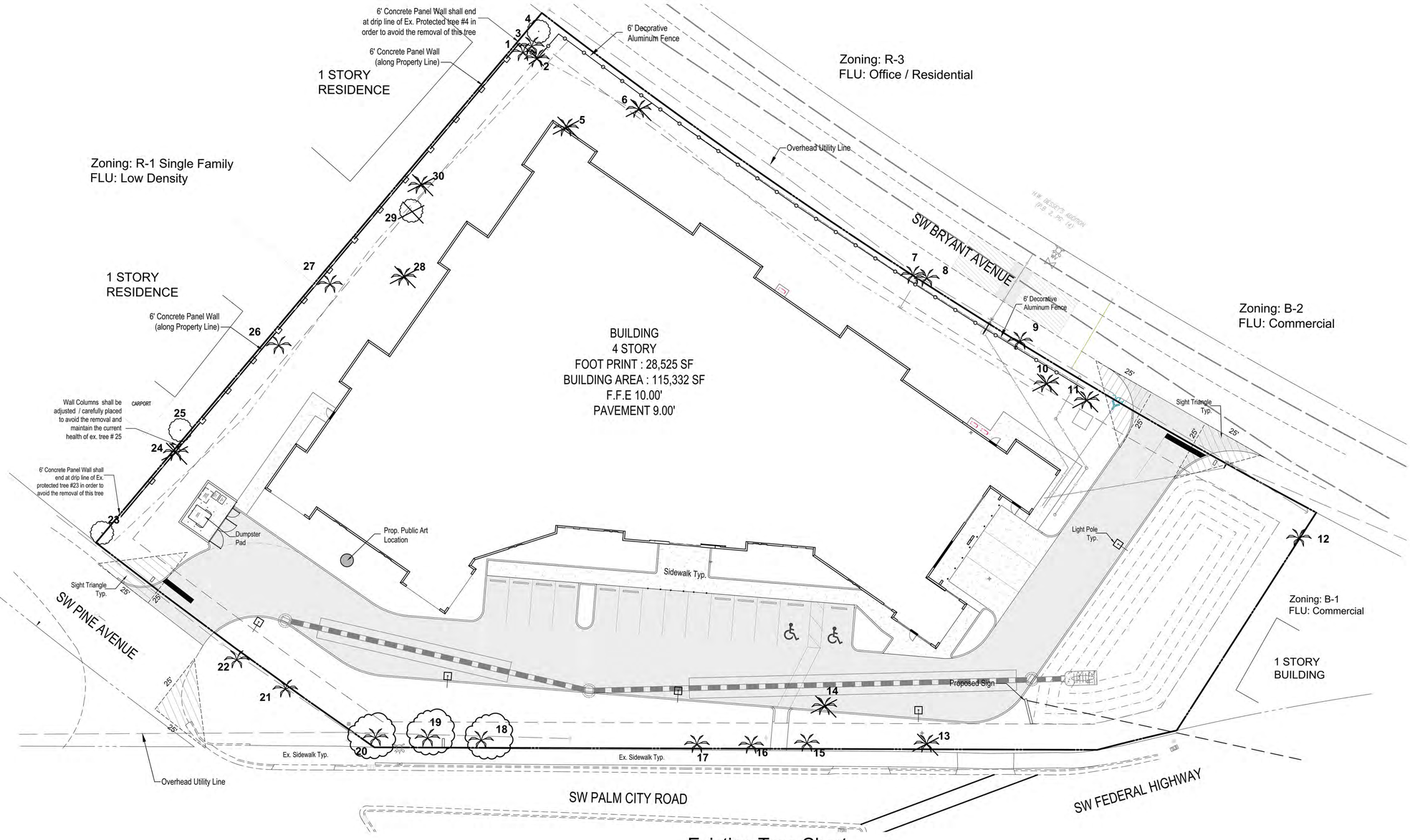
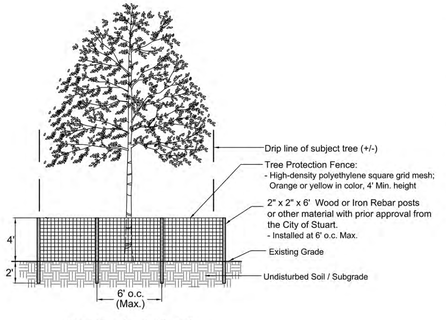


Tree Protection / Barricade Detail



Tree Barricade Detail
N.T.S.

Tree Protection Notes

1. Existing trees that are to be preserved shall be barricaded according to the City's regulations.
2. Tree Protection Barricades shall be erected prior to the commencement of any work. All barricades must be maintained intact for the duration of construction.
3. Barricades must be constructed around the critical protection zone of each tree or cluster of trees.
4. During periods of development and construction, the areas within the drip–line of preserved trees shall be maintained at their original grade with pervious landscape material. Within these areas, there shall be:
   A. No trenching or cutting of roots
   B. No fill, compaction or removal of soil; and
   C. No use of concrete, paint, chemicals or other foreign substances
5. Barricades shall be constructed of a yellow or orange high density polyethylene square grid mesh fence with a min. height of 4 feet. Fencing shall be secured to posts with nylon cable ties at the top middle and bottom of each post. Posts shall be a 2"x 2" x 6' wood or iron rebar or other material with prior approval from The City of Stuart. Posts shall be spaced a max. of 6' o.c.

Existing Tree Chart

Tree #	Common Name	Size	Comment	Protected	Status
1	Cabbage Palm	15' ct		No	Preserve
2	Cabbage Palm	20' ct		No	Remove
3	Cabbage Palm	13'ct		No	Preserve
4	Gumbo Limbo	15" Combined DBH	multi-trunk	Yes	Preserve
5	Cabbage Palm	17' - 18' ct.		No	Remove
6	Cabbage Palm	17' - 18' ct.		No	Remove
7	Cabbage Palm	10' ct.		No	Preserve
8	Cabbage Palm	10' ct.		No	Preserve
9	Cabbage Palm	10' ct.		No	Preserve
10	Cabbage Palm	16' ct.		No	Remove
11	Cabbage Palm	16' ct.		No	Remove
12	Cabbage Palm	8'-10' ct.		No	Preserve
13	Christmas Palm	8'-10' ct.	Triple	No	Remove
14	Christmas Palm	6'-8' ct.	Triple	No	Remove
15	Royal Palm	15' GW		No	Preserve
16	Royal Palm	12'- 13' GW		No	Preserve
17	Royal Palm	15' GW		No	Preserve
18	Royal Palm	15' GW		No	Relocate
19	Royal Palm	15' GW		No	Relocate
20	Royal Palm	15' GW		No	Relocate
21	Royal Palm	12'- 13' GW		No	Preserve
22	Royal Palm	15' GW		No	Preserve
23	Live Oak	10" DBH	Off-site	Yes	Preserve
24	Cabbage Palm	10' ct.		No	Remove
25	Live Oak	27" DBH	Off-site	Yes	Preserve
26	Cabage Palm	9" DBH		No	Preserve
27	Cabage Palm	17" DBH		No	Preserve
28	Cabage Palm	11" DBH		No	Remove
29	Scrub Oak	40" Combined DBH	multi-trunk shrub	No	Remove
30	Cabage Palm	10' ct.		No	Remove

Legend

Existing Trees to be Preserved

Existing Trees to be Removed

Existing Palm Trees to be Relocated (3 - Royal Palms)

* Note: See Existng Tree Chart for more information

Scale: 1" = 20'

0' 10' 20' 40' 60'

North

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Existing Tree / Removal Plan

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REGISTERED LANDSCAPE ARCHITECT
CRAIG MICHAEL HOUSTON
LA0000905
STATE OF FLORIDA

Job No.	17045
Drawn By	TT
Checked By	MH
Approved By	MH
Submittal Dates	06–4–18
	09–12–18 09–26–18
Revision Dates	11–15–19
	2–05–20

LP-1

Landscape Data

Total Site Area	80,332 sf / 1.85 Ac.
Landscape Area Required (20%)	16,066 sf / 0.37 Ac.
Landscape Area Provided (41%)	32,625 sf / 0.75 Ac.
Planted / Vegetation Areas	18,620 sf (57%)
Sod Areas	14,005 sf (43%)

1 Tree per 2,500 sf of Development site (Min. 50% Shade Trees)

Development Site 80,332 sf (1.85 Ac.)

Total Trees Required (80,332 sf / 2,500 sf) 33 Total Trees

Shade Trees Required (33 Req. Trees x 50%) 17 Trees

Total Trees Provided 87 Total Trees
(44 Trees + 77 Palms @ 2:1 + 5 Palms @1:1)

Shade Trees Provided 44 Trees

Perimeter Landscaping Adjacent to Streets

10' Min. Landscape Buffer- 1 Tree per 30 LF and perimeter hedge required. Not less than 25% of strip shall be groundcover.

SW Palm City Road:

Trees Required: (313 LF / 30) = 11 Trees
Trees Provided: = 18 Trees
(4 Trees + 16 Palms @ 2:1 + 6 Ex. / Relocated Palms @ 1:1)

SW Pine Avenue:

Trees Required: (135 LF / 30) = 5 Trees
Trees Provided: = 6 Trees
(1 Trees + 4 Palms @ 2:1 + 3 Palms @ 1:1)

SW Bryant Avenue:

Trees Required: (338 LF / 30) = 12 Trees
Trees Provided: = 24 Trees
(13 Trees + 21 Palms @ 2:1 + 1 Ex. Palm @ 2:1)

Transitional Landscape Buffers (development Incompatibility)

One Tree Per 30 LF. Buffer shall include a buffer screen the width of which is 25 percent of the width of the required buffer. The buffer screen shall include a six-foot high wall or fence with five-foot wide landscape area located along the property line. Where a proposed non-residential development will abut a residential development,the five-foot wide landscape area shall be located outside the six-foot high wall or fence.
Sec. 6.04.06 B (4) - No Structure, mechanical equipment, trash receptacles, parking area or internal driveways shall be located in the common boundary buffer within 15 feet of the property line.

South Boundary: - Abutting Single family

Required Buffer Width : 55' (25' + 10' for each additional bldg. story)
Provided Buffer Width : 30'

Required Buffer Screen : 13.75 ' (55' Buffer width x 25%)
Provided Buffer Screen : 15' - 30'

Total Linear Feet : 270'

Trees Required: (270 LF / 30) = 9 Trees
Trees Provided: = 22 Trees
(11 Trees + 1 Ex. Tree + 4 Ex. Palms @ 2:1 + 16 Palms @2:1)

Perimeter Landscaping Adjacent to Private Property:

5' Min. Landscape Buffer - 1 Tree per 30 LF and perimeter hedge required. Not less than 25% of strip shall be groundcover.

Along North Property Line (Commercial):

Trees Required: (101 LF / 30) = 4 Trees
Trees Provided: = 10 Trees
(8 Trees + 4 Palms @ 2:1)

Interior Landscaping around Perimeter of Building:

A 5' min. landscape strip shall be provided along all sides of the building which abut a parking area. This strip shall contain 1 Tree per 30 LF and hedge.

Trees Required: (364 LF / 30) = 12 Trees
Trees Provided: = 12 Trees
(4 Trees + 16 Palms @ 2:1)

Interior Landscaped Islands:

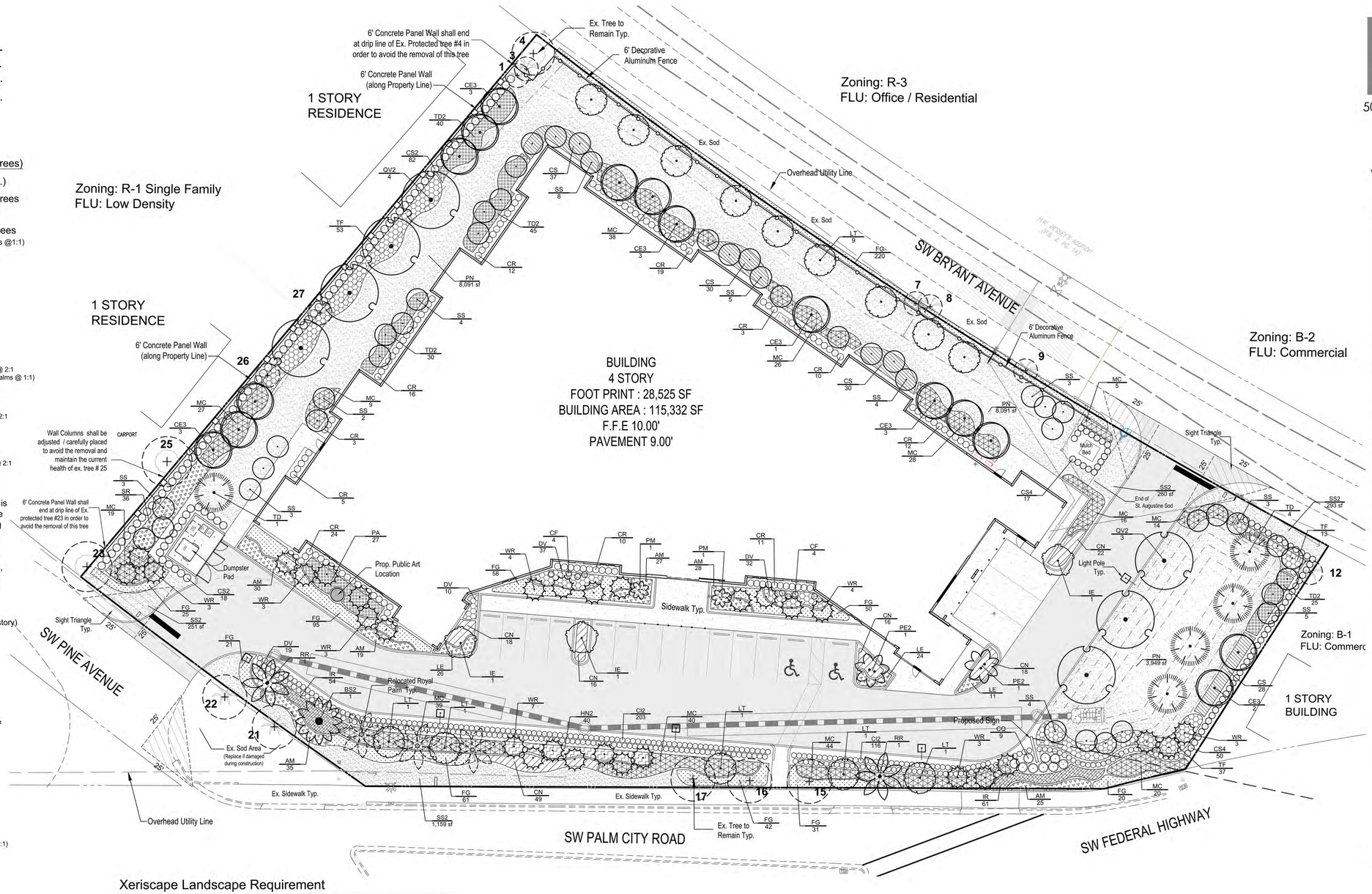
Each interior island shall contain a min. of 1 shade tree and a combination of shrubs, ground cover, grass and mulch. Hedge material used must be maintained at a max. height of 24".

Trees Required: = 1 Tree
Trees Provided: = 1 Tree

Interior Terminal Landscaped Islands:

Each interior island shall contain a min. of 1 shade tree and a combination of shrubs, ground cover, grass and mulch. Hedge material used must be maintained at a max. height of 24".

Trees Required: = 4 Trees
Trees Provided: = 4 Trees
(2 Trees + 2 Palms @ 1:1)



Xeriscape Landscape Requirement

To obtain a development permit, an applicant shall attain a minimum of 50 points from the following table of design options. As used in the table, "list" means the list of drought tolerant species set forth in the most current South Florida Water Management District's Waterwise, South Florida Landscapes, Landscaping to Promote Water Conservation Using the Principles of Xeriscape

Design Options:	Points	Points Received
(1) Utilization of moisture sensing controller other than rain switch	5	
(2) Plan submitted with low, moderate and high water usage zones indicated on the landscape plan	5	
(3) Grass:		
25 - 50 % of the grass areas are made up of drought tolerant grass species from the list	5	
51 % or more of the grass areas are made up of drought tolerant grass species from the list	10	10
(4) Shrubs:		
25 - 50 % of the required shrubs are made up of drought tolerant species from the list	5	
51 % or more of the required shrubs are made up of drought tolerant species from the list	10	10
(5) Trees:		
25 - 50 % of the required trees are made up of drought tolerant species from the list	5	
51 % or more of the required trees are made up of drought tolerant species from the list	10	10
(6) Extra shade trees in vehicular use areas:		
25 % more than the required shade trees planted in the vehicular use areas.	5	
50 % more than the required shade trees planted in the vehicular use areas.	10	
(7) Sod area less than 50 percent of provided landscape area.	10	10
(8) Utilization of compacted mulched planting beds at least three inches in depth in all planted areas except ground covers. (Use of Cypress Mulch prohibited)	10	10

Total Points Provided: 50 Points

Legend

Existing Trees to be Preserved

Proposed Light Pole Typ.

Relocated Palm Trees
(3 - Royal Palms)

* Note: See Existng Tree Chart on sheet LP-1 for more information

Scale: 1" = 20'
0' 10' 20' 40' 60'

North

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City of Stuart, Florida

Landscape Plan

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REGISTERED LANDSCAPE ARCHITECT CRAIG MICHAEL HOUSTON LA0000905 STATE OF FLORIDA

Job No.	17045
Drawn By	TT
Checked By	MH
Approved By	MH
Submittal Dates	06-4-18
	09-26-18
	09-12-18
Revision Dates	11-15-19
	2-05-20

LP-2

Landscape Notes

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO ALL THE REQUIREMENTS STATED UNDER DIVISION 1 - GENERAL REQUIIREMENTS AND CONDITIONS AS WELL AS THE SPECIFIC CRITERIA OUTLINED HEREIN AND ON THE LANDSCAPE DRAWINGS INCLUDING ADDENDA AS MAY BE ISSUED BY THE OWNER.

2. THE SCOPE OF WORK FOR THE LANDSCAPE CONTRACTOR FOR THIS PROJECT SHALL INCLUDE THE PROVISION OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO COMPLETE ALL TASKS ASSOCIATED WITH THE LANDSCAPE AND IRRIGATION INSTALLATION AS SHOWN ON THE DRAWINGS OR NOTED HEREIN. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE GENERAL CONTRACTOR REASONABLE ACCESS TO POWER AND POTABLE WATER SOURCES AS REQUIRED.

3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING ALL WORK (INCLUDING DELIVERY, STORAGE AND DISPOSAL OF THEIR MATERIALS) IS PERFORMED IN COMPLIANCE WITH APPLICABLE JURISDICTIONAL CODES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS ASSOCIATED WITH THE WORK.

4. THE LANDSCAPE CONTRACTOR SHALL ASSIGN A QUALIFIED PROJECT MANAGER AND FIELD SUPERVISOR TO WORK DIRECTLY WITH THE LANDSCAPE ARCHITECT AND SUPERVISE THE WORK AT ALL TIMES THROUGH FINAL OWNER ACCEPTANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT PROJECT MANAGER HAS A COMPLETE, CURRENT SET OF DOCUMENTS ON-SITE AT ALL TIMES.

5. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH EXISTING SITE CONDITIONS AND NOTIFYING THE OWNER IN WRITING OF ANY CONCERNS PRIOR TO COMMENCEMENT OF WORK. THIS EVALUATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, VERIFICATION OF SURFACE AND SUBSURFACE UTILITIES, GRADES, DIMENSIONS AND SOIL CONDITIONS.

6. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH PROJECT PLANS AND SCOPES OF WORK RELATED TO ASSOCIATED TRADES TO BE PERFORMED BY OTHERS IN ORDER TO IDENTIFY KEY COORDINATION ITEMS INCLUDING, BUT NOT LIMITED TO, SITE ACCESS, MATERIAL STORAGE, SCHEDULING AND SEQUENCING OF WORK. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL SITE ISSUES WITH THE GENERAL CONTRACTOR.

7. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT WORK, MATERIALS AND EQUIPMENT FROM DAMAGE DUE TO THEIR ACTIVITIES. THE LANDSCAPE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ANY DAMAGE OR INJURY TO PERSON OR PROPERTY THAT MAY OCCUR AS A RESULT OF THE EXECUTION OF THEIR WORK.

8. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE AREA, MATERIALS AND EQUIPMENT WITHIN THE LIMITS OF WORK IN A SAFE, NEAT AND ORDERLY MANNER. EXCESS MATERIALS AND DEBRIS ARE TO BE REMOVED FROM THE WORK AREA NO LESS THAN WEEKLY OR AS DIRECTED BY THE GENERAL CONTRACTOR.

9. THE LANDSCAPE CONTRACTOR MUST TAKE PRECAUTIONS TO PROTECT ALL EXISTING SITE ROADS PARKING LOTS, CURBS AND UTILITIES FROM DAMAGE. THIS APPLIES NOT ONLY TO THE AREA WITHIN THE LIMITS OF WORK BUT ALSO ALONG ANY LOCAL ACCESS ROADS.

10. THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY MEASURES DURING CONSTRUCTION OPERATIONS TO PROTECT THE PUBLIC ACCORDING TO ALL APPLICABLE CODES AND RECOGNIZE LOCAL PRACTICES.

11. THE LANDSCAPE CONTRACTOR SHALL COORDINATE WITH GENERAL CONTRACTOR TO ENSURE THAT TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES (SILT FENCE, ORANGE GEO FENCE AND/OR OTHER MEASURES) ARE INSTALLED PRIOR TO BEGINNING EXCAVATION.

12. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL PLANT MATERIALS AND THE PLANTING AREAS UNTIL FINAL ACCEPTANCE BY THE OWNER.

13. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE AGRONOMIC EVALUATION OF SOIL CHARACTERISTICS. EVALUATION MUST INCLUDE CHEMICAL ANALYSIS BY A QUALIFIED AGRICULTURAL SOILS TESTING LABORATORY (CERTIFIED IN THE STATE OF FLORIDA). SOILS SAMPLE SHOULD BE TAKEN IMMEDIATELY FOLLOWING COMPLETION OF ROUGH GRADING ACTIVITIES AND SHOULD BE COLLECTED AT A RATE ON ONE SAMPLE FOR EACH 5,000 SQUARE FEET OF IMPACTED AREA, OR A TOTAL OF SIX, WHICHEVER IS GREATER. AT A MINIMUM THE CHEMICAL ANALYSIS OF THE SOIL SHOULD CONSIDER THE FOLLOWING:

- A. PERCENTAGE OF ORGANIC MATTER
- B. SALINITY
- C. PH
- D. LIME CONTENT
- E. MINERAL NUTRIENTS INCLUDING CONCENTRATIONS OF NITROGEN, PHOSPHOROUS, POTASSIUM, CALCIUM, MAGNESIUM, IRON, ZINC, MANGANESE, COPPER, SULFUR, AND MOLYBDENUM.
- F. POTENTIAL HAZARDS OR IMPEDIMENTS FOR PLANT GROWTH INCLUDING SALINITY, SODIUM CHLORIDE, BORON, IMPAIRED SOIL STRUCTURE OR DRAINAGE.
- F. SAND FRACTION ANALYSIS AS A PERCENTAGE PASSING THROUGH 1', ¼', AND NO. 200 SIEVES
- H. PERCOLATION RATE IN INCHES PER HOUR.

THE ANALYSIS SHOULD ALSO INCLUDE SPECIFIC RECOMMENDATIONS TO THE OWNER FOR ANY AMENDMENTS AND BACKFILL MIXES FOR OPTIMAL PLANT GROWTH TO BE MADE TO THE SOILS PRIOR TO PLANTING. THE CONTRACTOR SHOULD INCLUDE THE COST FOR SOIL AMENDMENTS. THE CONTRACTOR IS TO PROVIDE THE OWNER WITH COPIES OF ALL SOIL TESTING RESULTS. SUBMITTAL DOCUMENTATION MUST ALSO CONTAIN A GRAPHIC SITE PLAN DEPICTING LOCATIONS FROM WHICH EACH SAMPLE WAS DRAWN.

14. THE LANDSCAPE CONTRACTORS BASE BID FOR SOIL PREPARATION IS TO INCLUDE THE FOLLOWING WITH THE UNDERSTANDING THAT MIX DESIGN MAY NEED TO BE ADJUSTED BASED ON OUTCOME OF AGRONOMIC TESTING.

A. TREES: 100% SITE SOIL WITH 5LB. TRIPLE SUPER PHOSPHATE PER CU. YD.

B. SHRUBS: 100% SITE SOIL WITH OSMOCOTE CONTROLLER RELEASE FERTILIZER (14-14-14) PER MANUFACTURER'S RECOMMENDATION.

C. THE SOILS TEST RESULTS TAKE PRECEDENCE OVER THE ITEMS NOTED IN A AND B ABOVE.

15. SHOULD OWNER AND LANDSCAPE CONTRACTOR AGREE WITH THE RECOMMENDATION OF THE TESTING AGENCY TO FURTHER AMEND THE SOILS THE CONTRACTOR'S CONTRACT WILL BE ADJUSTED ACCORDINGLY. THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT SAMPLES OF AMENDED SOILS TO BE RE-TESTED TO CONFIRM COMPLIANCE WITH RECOMMENDATIONS FOLLOWING THE SAME PROCEDURES AS THE ORIGINAL TESTS.

16. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE QUANTITIES OF EACH PLANT MATERIAL REQUIRED TO ADEQUATELY COVER THE AREA SHOWN ON THE LANDSCAPE PLANS AT THE PRESCRIBED SPACING AND NOTIFYING THE OWNER IMMEDIATELY OF ANY PERCEIVED DISCREPANCIES FOR RESOLUTION. THE PLANT SPACING CONTROLS BED LAYOUT, NOT THE PLAN QUANTITY FOR THAT PARTICULAR BED.

FINE GRADING NOTES

1. FINISHED GRADE IN PLANTING AREAS SHALL BE HELD 3" BELOW THE FINISHED ELEVATIONS SHOWN FOR ALL ADJACENT HARDSCAPE SURFACES.

2. ALL FILL REQUIRED SHALL BE CLEAN, WELL DRAINING SOIL. FILL SHALL BE CLEAN AND FREE OF ALL MATERIAL HARMFUL TO PLANT GROWTH AND DELETERIOUS MATERIAL SUCH AS ROCKS (LARGER THAN 2" DIA.), COMPACTED CLAY, ROADBED OR SURFACING MATERIAL, MUCK, ROOTS AND BRANCHES ETC.

3. THE LANDSCAPE CONTRACTOR IS TO ENSURE THAT THEIR WORK DOES NOT ADVERSELY IMPACT ESTABLISHED OR PROJECTED DRAINAGE PATTERNS.

INSTALLATION NOTES

1. PLANT AND LANDSCAPE MATERIALS SHALL CONFORM TO THE STANDARDS FOR FLORIDA NO. 1, AS GIVEN IN THE GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS I & II, AS PREPARED BY THE FLORIDA DEPT. OF AGRICULTURE AND CONSUMER SERVICES.

2. A 3" THICK LAYER OF ORGANIC NON-CYPRESS MULCH SHALL BE APPLIED TO ALL LANDSCAPE AND PLANTING AREAS.

3. ALL EXOTIC VEGETATION TO BE REMOVED FROM THE SITE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.

4. THIS PLAN HAS BEEN DESIGNED TO MEET WITH THE TREE PLANTING REQUIREMENTS CONTAINED WITHIN THE FPL DOCUMENT ENTITLED "PLANT THE RIGHT TREE IN THE RIGHT PLACE."

5. FOR EXISTING OR PROPOSED UTILITIES, NO TREE SHALL BE PLANTED WHERE IT COULD, AT MATURE HEIGHT, CONFLICT WITH OVERHEAD POWER LINES. LARGE TREES [HEIGHT AT MATURITY OF MORE THAN THIRTY (30) FEET] SHALL BE PLANTED NO CLOSER THAN A HORIZONTAL DISTANCE OF THIRTY (30) FEET FROM THE NEAREST OVERHEAD POWER LINE. MEDIUM HEIGHT TREE [HEIGHT AT MATURITY BETWEEN TWENTY (20) AND THIRTY (30) FEET] SHALL BE OFFSET AT LEAST TWENTY (20) FEET AND SMALL TREES [HEIGHT AT MATURITY OF LESS THAN (20) FEET] REQUIRE NO OFFSET.

6. NO TREE, SHRUBS, HEDGES OR VINES SHALL BE PLANTED WITHIN FIVE (5) FEET OF ANY EXISTING OR PROPOSED UTILITY POLE, GUY WIRE OR-PAD MOUNTED TRANSFORMER. PALMS SHOULD BE PLANTED AT A DISTANCE E UAL TO OR GREATER THAN THE AVERAGE FRONT LENGTH PLUS TWO (2) FEET FROM POWER LINES.

7. WETLAND BUFFERS, BUFFER PROTECTION AREAS, AND UPLAND PRESERVE AREAS SHALL BE PROTECTED FROM EXCAVATION, CONSTRUCTION, AND OTHER BUILDING MAINTENANCE ACTIVITIES.

8. TREES TO REMAIN DURING CONSTRUCTION SHALL BE PROTECTED AND BARRICADED. SEE TREE PROTECTION NOTE.

9. FERTILIZER SHALL BE COMPLETE WITH APPROXIMATELY THE FOLLOWING RATIO: 3N-1P-3K (+1MG FOR PALMS ONLY)

10. TREES AND PALMS ARE TO BE PLANTED IN ACCORDANCE TO LANDSCAPE PLAN. GOOD HORTICULTURAL PRACTICES MUST BE OBSERVED.

11. TREES AND PALMS ARE TO BE PLANTED IN THE RIGHT-OF-WAY (ROW) AT A MINIMUM OF FOUR (4) FEET FROM BACK OF CURB AT LOCATIONS IDENTIFIED ON THE LANDSCAPE PLAN. AWARDED BIDDER SHALL STAKE AND/OR PAINT PLANTING LOCATIONS IN THE FIELD. UPON APPROVAL BY THE CUSTOMER, THESE AREAS SHALL BE SPRAYED WITH AN APPROVED HERBICIDE AND MAINTAINED WEED-FREE FOR THE DURATION OF THE PROJECT.

12. EXCAVATE PLANTING HOLES WITH VERTICAL SIDES. DO NOT DISTURB SOIL AT BOTTOM OF PLANTING HOLES. MAKE EXCAVATIONS TWICE AS WIDE AS THE ROOT BALL DIAMETER AND SLIGHTLY LESS (TWO INCHES) THAN THE DISTANCE BETWEEN THE TOP-MOST ROOT IN THE ROOT BALL AND THE BOTTOM OF THE ROOT BALL. ALTERNATIVELY, EXCAVATE THE HOLE SLIGHTLY WIDER THAN THE ROOT BALL AND PLACE THE ROOT BALL IN THE HOLE SO THE TOP-MOST ROOT IS EVEN WITH OR SLIGHTLY (2 INCHES) HIGHER THAN THE SURROUNDING LANDSCAPE GRADE. THEN, LOOSEN THE SURROUNDING SOIL OUT TO A DIAMETER EQUAL TO TWICE THE DIAMETER OF THE ROOT BALL. FINALLY, PUSH THE LOOSENED SOIL TOWARD THE ROOT BALL TO FILL THE HOLE.

IF WATER FILLS THE BOTTOM OF THE PLANTING HOLE, ADD SOIL TO THE BOTTOM OF THE HOLE UNTIL THE WATER IS COVERED. PACK THIS ADDED SOIL FIRMLY. PLACE THE ROOT BALL ON THIS PACKED, SOLID SOIL, NOT IN WATER. NO PART OF THE ROOT BALL SHALL BE PLACED IN WATER. IF NECESSARY, BRING IN SOIL SIMILAR TO SITE SOIL TO COVER THE SIDES OF THE ROOT BALL, CREATING A RAISED MOUND. THE BASE OF THE MOUND (I.E. THE OUTER DIAMETER) CREATED SHALL BE AT LEAST SIX TIMES THE DIAMETER OF THE ROOT BALL.

WHEN PLANTING ON A SLOPE, THE TOP-MOST MAIN ROOT IN THE ROOT BALL SHALL BE EVEN WITH THE GRADE ON THE UPHILL SIDE OF THE TREE. SITE SOIL WILL NEED TO BE ADDED ON THE DOWNHILL SIDE TO COVER THE SIDES OF THE ROOT BALL AND TO CONSTRUCT THE SOIL BERM TO HOLD WATER. THE AMOUNT OF SOIL ADDED ON THE DOWNHILL SIDE WILL DEPEND ON THE SLOPE AND SIZE OF THE ROOT BALL.

13. REMOVE ALL WOOD, PLASTIC, OR GRO-BAGS FROM THE ROOT BALL. SET PLANTS IN CENTER OF HOLES WITH THE TOP-MOST ROOT IN THE ROOT BALL AT THE SAME HEIGHT OR SLIGHTLY (2 INCHES) HIGHER THAN FINISHED LANDSCAPE GRADES AND PLUMB THE TREE SO THE TRUNK IS VERTICAL. BACKFILL FIELD SOIL AROUND SIDES OF ROOT MASS AND WORK EACH LAYER TO SETTLE AND ELIMINATE VOIDS AND AIR POCKETS. MATERIAL MUST BE WATERED IN AS PLANTED. PROVIDE APPROXIMATELY 5 GALLONS OF WATER PER INCH OF TRUNK CALIPER TO THE ROOT BALL ONCE ALL BACKFILL IS FILLED IN AROUND THE ROOT BALL.

14. PROVIDE A 2-3" HIGH SOIL BERM AROUND THE EDGE OF ROOT BALL TO FORM A SHALLOW SAUCER TO COLLECT WATER. THE WATERING SAUCER, REGARDLESS OF HOLE SIZE, IS TO BE AT EDGE OF ROOT BALL. ALTERNATIVELY, COBRA EDGING IS TO BE INSTALLED AT THE EDGE OF THE ROOT BALL.

15. BROADCAST OVER THE ROOT BALL AND BACKFILL SOIL, AT THE RECOMMENDED RATE, A BROAD-SPECTRUM PRE-EMERGENT HERBICIDE PRIOR TO MULCHING.

16. APPLY A CONTROLLED-RELEASE FERTILIZER TO THE SOIL SURFACE UNDER THE MULCH AT 1LB. NITROGEN PER 1000 FT2, PRIOR TO MULCHING. NO OTHER AMENDMENTS ARE NECESSARY.

17. ON TREES UP TO 4" CALIPER, APPLY A THREE (3) -INCH LAYER OF MULCH TO AN EIGHT (8) -FOOT DIAMETER CIRCULAR AREA AROUND THE TRUNK. ON LARGER CALIPER TREES, APPLY A TWO (2) -FOOT DIAMETER MULCH AREA FOR EACH INCH OF TRUNK CALIPER. NO MULCH SHALL BE APPLIED TO THE INNER HALF OF THE ROOT BALL SURFACE.

18. TREES AND PALMS ARE TO BE SECURED BY AWARDED BIDDER AS SHOWN IN EXHIBITS A-C. (NOTE: STAKING IS OPTIONAL FOR MORE PROTECTED LOCATIONS).

19. A REPRESENTATIVE WILL INSPECT TREES AND PALMS DURING INSTALLATION. MATERIAL THAT IS IN SHOCK OR HAS BEEN DAMAGED DURING INSTALLATION SHALL BE REPLACED BY AWARDED BIDDER WITHIN FIVE (5) WORKING DAYS FROM NOTIFICATION.

20. REMOVE FROM WORK SITE ALL EXCESS MATERIALS (E.G., SOIL, DEBRIS AND EQUIPMENT) DAILY THROUGH DURATION OF PROJECT. DAMAGES RESULTING FROM INSTALLATION SHALL BE REPAIRED BY AWARDED BIDDER.

21. PRUNING: IF THERE IS A DOUBLE LEADER IN THE TOP HALF OF THE TREE, SHORTEN ONE, BY ABOUT ONE-HALF, BACK TO A LIVE BRANCH THAT POINTS AWAY FROM THE TREE AND IS AT LEAST ONE-THIRD THE DIAMETER OF THE CUT LEADER. REMOVE BROKEN PORTIONS OF DAMAGED BRANCHES BACK TO A LIVE LATERAL BRANCH.

22. REMOVE ALL STRING OR WIRE WRAPPED AROUND THE TRUNK. REMOVE ALL STRAPS, ROPE AND STRING USED TO LIFT THE ROOT BALL. REMOVE ALL BURLAP AND WIRE FROM THE TOP OF THE ROOT BALL.

SOIL NOTES

1 OPF-SITE TOPSOIL SHALL BE NATURAL, FERTILE FRIABLE LOAM OR SANDY LOAM AS CLASSIFIED BY THE U.S. DEPARTMENT OF AGRICULTURE SOIL CLASSIFICATION SYSTEM. THE SOIL SHALL CONTAIN NOT LESS THAN 3 PERCENT OR MORE THAN 8 PERCENT BY WEIGHT OF DECAYED ORGANIC MATTER (HUMUS) AS DETERMINED BY ASTM F-1647. THE TOPSOIL SHALL BE FREE OF STONES 1 INCH (25 MILLIMETERS) OR LARGER AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. TOPSIL SHALL NOT HAVE A PH OF LESS THAN 6.0 OR GREATER THAN 7.5, AND SHALL NOT BE DELIVERED OR USED FOR PLANTING WHILE IN A FROZEN OR MUDDY CONDITION.

IF ORGANIC AMENDMENTS ARE NEEDED TO OBTAIN THE SPECIFIC ORGANIC MATTER CONTENT OF THE TOPSOIL, THE ORGANIC MATTER SOURCE MAY BE A PEAT OR COMPOST MATERISAL. THE PEAT SHALL BE SPHAGNUM PEAT HAVING AN ASH CONTENT NOT EXCEEDING 15 PERCENT, AS DETERMINED BY ASTM D-2974. COMPOSTS MAY BE USED PROVIDED THAT THE MATERIAL HAS AN ASH CONTENT NOT EXCEEDING 40 PERCENT.

ACCEPTANCE NOTES

1. INSPECTION TO DETERMINE ACCEPTANCE OF PLANTED AREAS WILL BE MADE BY THE CUSTOMER REPRESENTATIVE UPON AWARDED BIDDER'S REQUEST. PROVIDE NOTIFICATION A MINIMUM OF FIVE (5) WORKING DAYS BEFORE REQUESTED INSPECTION DATE.

   PLANTED AREAS WILL BE ACCEPTED PROVIDED ALL REQUIREMENTS, INCLUDING MAINTENANCE, HAVE BEEN SATISFIED AND PLANT MATERIALS ARE IN A HEALTHY, VIGOROUS CONDITION.

2. THE CUSTOMER REPRESENTATIVE WILL PREPARE A "PUNCH LIST" OF THOSE ITEMS, WHICH MUST BE CORRECTED BEFORE RE-INSPECTION FOR FINAL ACCEPTANCE. THE REPRESENTATIVE WILL DETERMINE AN APPROPRIATE TIME PERIOD FOR CORRECTIONS. AWARDED BIDDER MUST REQUEST RE-INSPECTION TWO (2) WORKING DAYS IN ADVANCE.

SHRUB SCHEDULE

	SHRUBS	QTY	COMMON / BOTANICAL NAME	SIZE	DETAILS	NATIVE	SPACING
*	CI2	319	Green Coco Plum / Chrysobalanus icaco	3 gal	24" HT., FULL	Yes	24" o.c.
	CR	125	Red Tip Cocoplum / Chrysobalanus icaco `Red Tip`	3 gal	24" HT., FULL	Yes	30" o.c.
*	CS2	100	Small-Leaf Clusia / Clusia guttifera	3 gal	24" HT., FULL	Yes	36" o.c.
*	CS4	67	Small-Leaf Clusia / Clusia guttifera	3 gal	24" HT., FULL	Yes	30" o.c.
	ACCENT	QTY	COMMON / BOTANICAL NAME	SIZE	DETAILS	NATIVE	SPACING
	CF	8	Ti Plant / Cordyline fruticosa `Auntie Lou`	3 gal	24" - 30" Ht., 3ppp, Full	No	30" o.c.
**	CQ	9	Purple Crinum / Crinum augustum `Queen Emma`	7 gal	30" - 36" Ht., Full	No	48" o.c.
	SHRUBS / GROUND COVERS	QTY	COMMON / BOTANICAL NAME	SIZE	DETAILS	NATIVE	SPACING
**	AM	164	Foxtail Fern / Asparagus meyeri	1 gal	8 - 10" Ht., Full Pot	No	24" o.c.
*	CN	139	Dwarf Pitch Apple / Clusia rosea `Nana`	3 gal	12 - 14" HT. x 12 - 14" SPR., Full	Yes	24" o.c.
*	CS	125	Silver Button Wood / Conocarpus erectus sericeus	3 gal	20" -24" Ht., Full	Yes	30" o.c.
**	DV	98	Varigated Flax Lily / Daniellia tasmanica `Variegata`	1 gal	14" - 16" Ht., 3ppp, Full	No	24" o.c.
*	FG	625	Green Island Ficus / Ficus microcarpa `Green Island`	3 gal	12 - 14" HT. x 12 - 14" SPR., Full	Yes	24" o.c.
*	HN2	40	Dwarf Firebush / Hamelia nodosa	3 gal	14" - 18" Ht., Full	Yes	30" o.c.
	IR	115	Dwarf Red Taiwan Ixora / Ixora x `Petite Taiwan Red`	3 gal	14" - 16" Ht. x 12" - 14" Spr., Full	No	20" o.c.
	LE	61	Liriope / Liriope muscari `Emerald Goddess`	1 gal	10" - 12" Ht., Full Pot	No	18" o.c.
**	MC	330	Pink Muhly / Muhlenbergia capillaris	1 gal	14" - 16" Ht., full	Yes	36" o.c.
**	PA	27	White Fountain Grass / Pennisetum setaceum `Alba`	1 gal	14" - 16" Ht. ,Full Pot	No	36" o.c.
*	SR	36	Saw Palmetto / Serenoa repens	1 gal	10" - 12" Ht. x 10" - 12" Spr., Full	Yes	36" o.c.
**	TF	103	Fakahatchee Grass / Tripsacum dactyloides	1 gal	18" - 20" Ht., Full	Yes	42" o.c.
**	TD2	140	Dwarf Fakahatchee / Tripsacum floridanum	1 gal	16" HT., FULL	Yes	30" o.c.

* **Drought Tolerant Shrub Species**
(per most current SFWMD Waterwise, South Florida Landscapes, Landscaping to Promote Water Conservation Using the Principles of Xeriscape)

Total Provided Shrubs	1,691 Shrubs
Drought Tolerant Shrubs Provided	1,451 Shrubs (86%)

** **Drought Tolerant Ground Cover / Grass Species**
(per most current SFWMD Waterwise, South Florida Landscapes, Landscaping to Promote Water Conservation Using the Principles of Xeriscape)

Total Provided Grasses / GC	940 Grasses / GC
Drought Tolerant Grasses / GC Provided	871 Grasses / GC (93%)

Native Shrub Requirement (50% Minimum)

Total Provided Shrubs	1,691 Shrubs
Native Shrubs Provided	951 Shrubs (56%)

Native Ground Cover / Grasses Requirement (50% Minimum)

Total Provided Grasses / GC	940 Grasses / GC
Native Grasses / Ground Covers Provided	573 Grasses / GC (61%)

TREE SCHEDULE

	TREES	CODE	QTY	COMMON / BOTANICAL NAME	SIZE	NATIVE
*		CE3	15	Green Buttonwood / Conocarpus erectus	2.5" Cal., 12` Ht. x 6` Spr., Std., 5-6` ct	Yes
*		IE	3	Eagleston Holly / Ilex x attenuata `Eagleston`	2.5 - 3" Cal., 12` Ht x 6` Spr., Std, 5-6` ct.	Yes
*		LT	14	Crape Myrtle Coral Pink / Lagerstroemia x `Tuscarora`	45 gal., 12` Ht. x 6` Spr., Multi-trunk, 5-6` ct.	No
*		QV2	7	Southern Live Oak / Quercus virginiana	2.5" Cal., 12` Ht. x 6` Spr., Std., 5-6` ct	Yes
*		TD	5	Bald Cypress / Taxodium distichum	2.5" Cal., 12` Ht. x 6` Spr., Std., 5-6` ct	Yes
	PALM TREES	CODE	QTY	COMMON / BOTANICAL NAME	SIZE	NATIVE
*		BS2	1	Silver Bismark Palm / Bismarckia nobilis `Silver` 1:1 ratio	B&B, 8` ct., Single specimen, full head, Root Pruned	No
*		PM	2	Pigmy Date Palm Multi-Trunk / Phoenix roebelenii 2:1 Ratio	8-10` OA, 4` CT, Triple specimen	
		PE2	2	Alexander Palm / Ptychosperma elegans 1:1 Ratio	10` - 13` ct., Double Specimen, Full Head	No
*		RR	2	Royal Palm / Roystonea regia 1:1 ratio	15` GW, 24` - 26` OA., Single Specimen, Heavy Trunk, Full Head,	Yes
*		SS	45	Cabbage Palm / Sabal palmetto 2:1 ratio	15 @ 14` ct., 15 @ 17` ct., 15 @ 20` ct., Slick Trunks	Yes
*		WR	30	Mexican Fan Palm / Washingtonia robusta 2:1 ratio	8 @ 14` ct., 10 @ 17` ct, 12 @ 20` ct.	No

* **Drought Tolerant Tree Species**
(per most current SFWMD Waterwise, South Florida Landscapes, Landscaping to Promote Water Conservation Using the Principles of Xeriscape)

Total Provided Trees	87 Trees
Drought Tolerant Trees Provided	85 Trees (97%)

Native Tree Requirement (50% Minimum)

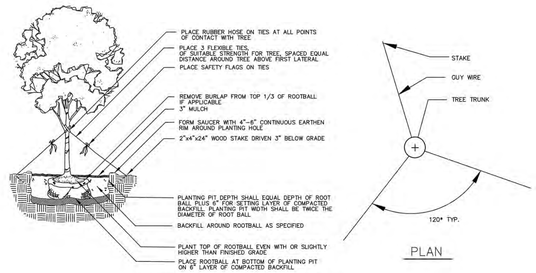
Native Trees Required (87 Trees x 50%)	44 Trees
Native Trees Provided	54 Trees (62%)

SOD SCHEDULE

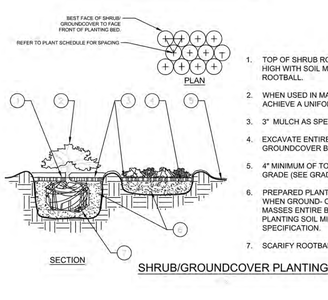
	SOD	QTY	COMMON / BOTANICAL NAME
*	PN	12,040 sf	Bahia Grass / Paspalum notatum
	SS2	1,965 sf	St. Augustine Grass / Stenotaphrum secundatum

* **Drought Tolerant Sod Species**
(per most current SFWMD Waterwise, South Florida Landscapes, Landscaping to Promote Water Conservation Using the Principles of Xeriscape)

Total Provided Sod Area	14,005 SF
Drought Tolerant Sod Area Provided	12,040 SF (86%)

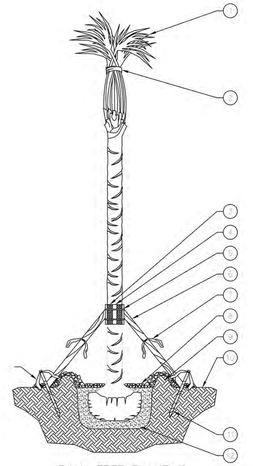


TREE PLANTING DETAIL
N.T.S.



1. TOP OF SHRUB ROOTBALLS TO BE PLANTED 1" - 2" HIGH WITH SOIL MOUNDING UP TO THE TOP OF ROOTBALL.
2. WHEN USED IN MASSES- PRUNE ALL SHRUBS TO ACHIEVE A UNIFORM MASS/HEIGHT.
3. 3" MULCH AS SPECIFIED.
4. EXCAVATE ENTIRE BED SPECIFIED FOR GROUNDCOVER BED.
5. 4" MINIMUM OF TOPSOIL TO BRING TO FINISHED GRADE (SEE GRADING PLAN).
6. PREPARED PLANTING SOIL AS SPECIFIED. NOTE: WHEN GROUND- COVERS AND SHRUBS USED IN MASSES ENTIRE BED TO BE AMENDED WITH PLANTING SOIL MIX AS SPECIFIED IN THE PLANTING SPECIFICATION.
7. SCARIFY ROOTBALL SIDES AND BOTTOM.

SHRUB/GROUNDCOVER PLANTING



PALM TREE PLANTING



PLAN

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