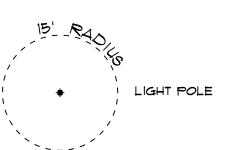


## <u>LEGEND</u>

EXISTING TREES TO BE REMOVED



Job Sit	e: 655 George Bush Blvd D	elray Beach, FL				
Job De	Job Description;					
Date;	Date; 3/2/2020					
ARBO	ARBORISTS VALUE					
Tree	Common name	Scientific name	DBH in	Condition %	Disposition	Notes
Α	Seagrape	Coccoloba uvifera	20	20	Remove	Major storm damage, major deca in trunks
	John Sutton/Sutton Consulting Aborist, ISA Certified Arborist #SO-0326					



# dave bodker landscape architecture/planning inc.

601 n. congress ave., suite 105—a delray beach, florida 33445 561—276—6311

#LA0000999

sheet title:

# existing tree plan

project number:

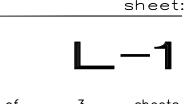
520
date: 05/11/2020
scale: 1" = 10'
drawn by: st

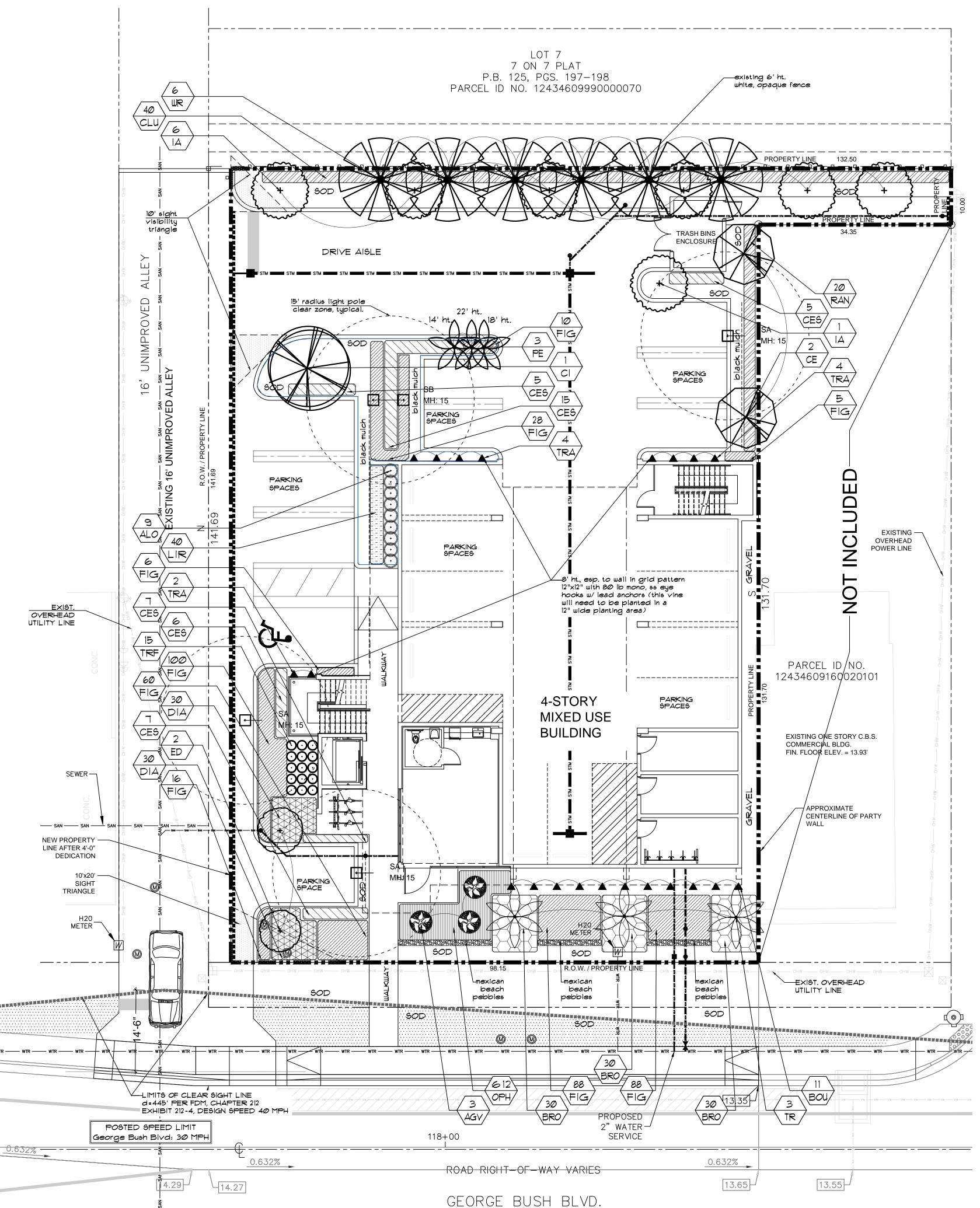
revisions:

7/28/20 city comments
11/23/20 city comments

\( \begin{align\*} \text{\tin\text{\text{\text{\text{\text{\text{\texi{\text{\text{\texit{\text{\texiclex{\text{\texit{\texi{\texi{\texi\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\texi{\terict{\ti







# CODE DATA

## multiple family, commercial, \$ industrial

,	TOTAL LOT ADEA		
<u> </u>	TOTAL LOT AREA		14,250 8
В	STRUCTURES, PARKING, WALKWAYS, DRIVES, ETC.		10,754 €
С	TOTAL PERVIOUS LOT AREA	C = (A - B)	3,496 8
D	AREA OF SHRUBS AND GROUND COVERS REQUIRED	D = (C × 30)	1,049 \$
E	AREA OF SHRUBS AND GROUND COVERS PROVIDED		1,786 \$
F	NATIVE VEGETATION REQUIRED	F = (D x 25)	263 \$
G	NATIVE VEGETATION PROVIDED		480 \$
H	TOTAL PAVED VEHICULAR USE AREA		10,487 \$
1	TOTAL INTERIOR LANDSCAPE AREA REQUIRED	l = (H × .1⊘)	1,049 \$
J	TOTAL INTERIOR LANDSCAPE AREA PROVIDED		1,683 9
K	TOTAL INTERIOR SHADE TREES REQUIRED	K = (1/125 SF.)	5 TRE
L	TOTAL INTERIOR SHADE TREES PROVIDED		5 TRE
М	TOTAL LINEAR FEET SURROUNDING PARKING OR VEHICULAR USE AREAS!		182
N	TOTAL NUMBER OF PERIMETER TREES REQUIRED	N = (M/30) N = (M/25) IF ADJACENT TO PROPERTY IN RESIDENTIAL USE	8 TRE
0	TOTAL NUMBER OF PERIMETER TREES PROVIDED		II TRE
P	TOTAL NUMBER OF EXISTING TREES TO BE SAVED ON SITE		Ø TRE
Q	TOTAL NUMBER OF NATIVE TREES REQUIRED	Q = ((K + N) x 50)	9 TRE
R	TOTAL NUMBER OF NATIVE TREES PROVIDED		10 TRE
s	TOTAL NUMBER OF TREES ON PLAN		16 TRE

- ALL PLANT MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER. - MULCH SHALL BE APPLIED TO A MINIMUM DEPTH OF THREE (3) INCHES IN ALL PLANTING BEDS. - ALL PROHIBITED PLANT SPECIES SHALL BE ERADICATED FROM THE SITE. - ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM, AUTOMATICALLY OPERATED,
- TO PROVIDE COMPLETE COVERAGE TO ALL PLANT MATERIALS AND GRASS. - SOD AND IRRIGATION SHALL BE PROVIDED WITHIN THE UNPAVED PORTION OF THE RIGHT-OF-WAY ADJACENT TO THE PROPERTY LINE.
- THREE (3) PALMS ARE EQUIVALENT TO ONE (1) SHADE TREE. - ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER, OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS: LD 1.1 & LD 1.2.

NOTE:
ANY TREES OR SHRUBS PLACED WITHIN WATER, SEWER OR DRAINAGE EASEMENTS SHALL CONFORM TO THE CITY OF DELRAY BEACH STANDARD DETAILS LD 1.1 AND LD 1.2. THE AREA BETWEEN THE PROPERTY LINE / R.O.W. LINE AND THE EDGE OF PAVEMENT OF CITY STREETS SHALL BE SODDED OR LANDSCAPED WITH A GROUND COVER ACCEPTABLE TO THE CITY ENGINEERING DEPARTMENT. IT IS UNDERSTOOD THAT ANY REPAIRS DUE TO CITY MAINTENANCE WILL BE REPLACED. (THE CITY WILL ONLY REPLACE WITH ST. AUGUSTINE OR BAHIA

A COST ESTIMATE WILL BE SUBMITTED AT THE TIME OF THE BUILDING PERMIT APPLICATION.

AN IRRIGATION PLAN WILL BE SUBMITTED AT THE TIME OF THE BUILDING PERMIT APPLICATION

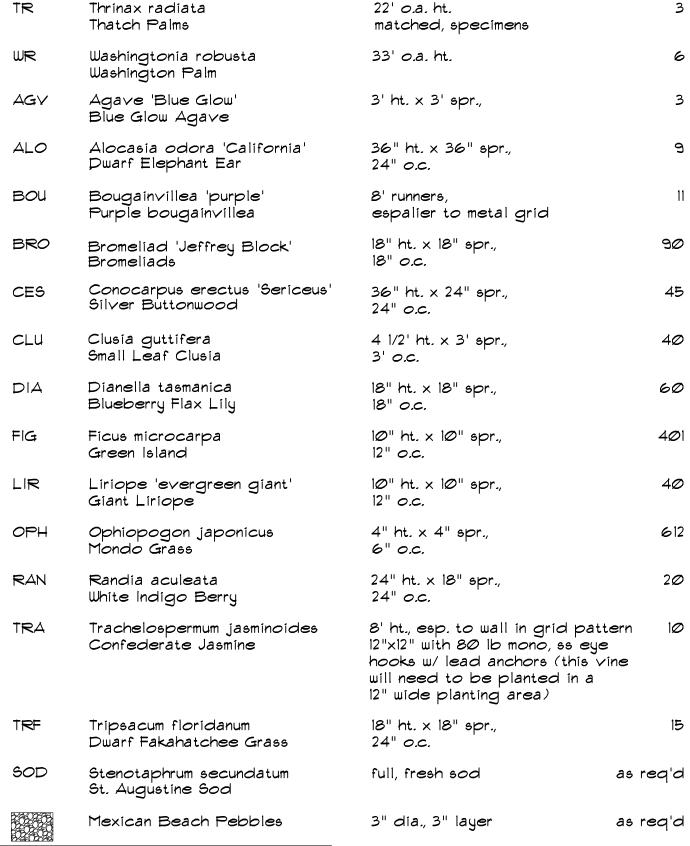
ROOT BARRIER (SEE NOTES BELOW)

(MAINS, SERVICES,

NOTES:

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

TYPICAL TREE WITHOUT ROOT BARRIER LD 1.2



(MAINS, SERVICES,

ETC.)

PLANT LIST

CI

Green Buttonwood

Calophyllum inophyllum

Brazilian Beauty Leaf

Elaeocarpus decipiens

Ptychosperma elegans

Japanese Blueberry

East Palatka Holly

llex attenuata

Solitaire Palm

BOTANICAL/COMMON NAME Conocarpus erectus

SPECIFICATIONS 16' ht. x 7' spr.,

3" cal., 8' c.t.

16' ht. x 7' spr.,

16' ht. x 5' spr.,

16' ht. x 5' spr.,

as noted on plan

3" cal., 8' c.t.

o.a. ht.

3" cal., 8' c.t., pyramidal

3" cal., 8' c.t.

the george corner of george bush blvd & ne 7th ave delray beach, fl

45

20

as req'd

# landscape architecture/planning inc.

601 n. congress ave., suite 105—a delray beach, florida 33445 561-276-6311

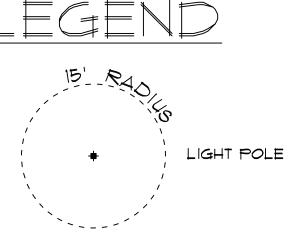
#LA0000999

## sheet title: planting

# plan project number:

date: scale: 1" = 10'drawn by:





1. ALL ROOT BARRIERS SHALL BE 4' MINIMUM FROM ALL CITY FACILITIES.

2. THE INSTALLATION OF ROOT BARRIERS SHALL BE COORDINATED WITH CITY AND

INSPECTED BY CITY PRIOR TO BACKFILLING. ALL ROOT BARRIERS SHALL EXTEND UP TO FINISHED GRADE.

3. ROOT BARRIERS SHALL BE MINIMUM 36" DEEP. APPROVED PRODUCTS INCLUDE "DEEP ROOT" AND "ROOT SOLUTIONS". FLEXIBLE BARRIERS SHALL BE 36" PANELS MANUFACTURED BY BIOBARRIER.

4. ALL ROOT BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.

TYPICAL TREE WITH ROOT BARRIER LD 1.1

NOTES:

dave bodker

05/11/2020

revisions: 1/28/20 city comments  $\stackrel{\triangle}{2}$  11/23/20 city comments

- Scope of Work: A. The work specified by this Section of the Specifications and on the Plans consists of furnishing all labor, machinery equipment, materials, services and incidentals necessary to complete the work as indicated on the Plans and in the
- responsibilities, including all change and repairs incident B. The work shall include, but not be limited to, furnishing material, root pruning where required, layout, protection to the public, excavation, installation, backfilling, grading,
- fertilizing, mulching, staking and guying where required watering, pruning where required, sod installation, weeding, cleanup, maintenance and quarantee. C. Quantities and Location: The Landscape Architect reserves the right to adjust the numbers and locations of the
- designated types and species to be used at any of the which might be necessary.
- $\hbox{D. Investigation of Subsurface Condition: The Contractor shall}\\$ be responsible for making site subsurface investigations and with the character of the existing material and the construction conditions under which he or she will work. These subsurface investigations and examinations shall be included in the bid. The Contractor shall not receive separate, additional compensation for this.
- E. The Landscape Contractor shall be paid for only those units contractor's unit prices shall be the basis for said paymen The final amount of payment may or may not be the total sum of the contract depending on the number of units installed.
- F. Ten percent (10%) of the total contract price will be held as retainer for 90 days after final written acceptance.
- G. The Landscape Contractor will coordinate his work with all other trades at the job site.
- (2) Palm frond tying shall be as set forth in the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants". tying palms shall be at the option of the Contractor. The Landscape Architect may direct the Landscape Contractor to untie The Contractor may retie the palm after the event. This untying will not affect the guarantee or represent an
- (3) To reduce head volume, Palm fronds may be taper trimmed by not more than one-third.
- (4) Palms with mechanical damage, such as from cables, chains, equipment and nails, shall be rejected.
- l. Chlorosis: The allowable level of Chlorosis in foliage shall be set forth in the latest edition of the Florida Departmen of Agriculture's "Grades and Standards for Nursery Plants"
- J. Plant material shall not be accepted when the ball of earth surrounding its roots has been cracked, broken or otherwise
- K. Root pruning of plant material, when necessary, shall be done a minimum of 4 weeks, or for a period as determined by the Landscape Architect, prior to planting at the project.

A. Sod shall be solid sod and shall be standard quality gra Note: Quality grade shall be based on the standards of sod quality grades (premium, standard or commercial) as established by the Turf grass Producers Association of Florida Inc. The sod shall be well matted with roots and of firm tough texture having a compact top growth and heavy root development. Sod shall be free of objectionable grassy and broad leaf weeds. Sod shall not accepted if it contains Bermuda Grass. Sod sections shall be strong enough to support when suspended vertically from a firm grasp on the upper 10% of the section. Sod shall not be harvested or transplanted when moisture content (excessively dry or wet) may adversel affect its survival. Sod shall be relatively free of thatch, up to one half inch allowable (uncompressed). the soil embedded in the sod shall be a clean, earth, free of stones and debris. The sod shall have been mowed at least three times with a lawn mower with final mowing not more than seven days prior to the sod being cut for placement. The so shall be provided in commercial pad sizes measuring not less than 12 inches by 24 inches and shall be live, fresh and uninjured at the time of placement. It shall be planted within 48 hours after being cut and shall be shaded and kept

moist from the time it is cut until it is planted.

(1) All plant material to be removed shall be removed

as directed by the Landscape Architect

J. Existing Plant Material to be Relocated:

completely, including the rootball, from the job or

(1) All existing plant material to be relocated shall be

root pruned a minimum of 90 days or for a period as

determined by the Landscape Architect prior to

(2) Rootball: Requirements for the measurement of minimum

requirements as set forth in the latest edition of

the Florida Department of Agriculture's "Grades and

Standards for Nursery Plants, Part 1 and Part 2", as

MIN. BALL DIA.

increase in

(3) Root pruning shall be accomplished by digging a trench

completely around the plant about 18 inches deep. All

(4) A mixture of good organic fertilizer and planting soil

xposed roots shall be cut off smoothly

(5) Plant material which is in soil of a loose texture,

which does not readily adhere to the root system

especially in the case of large plants or trees, shall

have the rootball wrapped in burlap and then wire, if

directed by the Landscape Architect. For wire, hog wire

shall be used and it shall be placed around the rootba

before before the plant is removed from the hole for

the tightened wire netting formed by the hog wire, so as

relocation. The wire shall be looped and tensioned

until the buriapped ball is substantially packaged by

to prevent disturbance of the loose soil around the

MIN. BALL DEPTH

75% of dia.

65% of dia.

65% of dia.

65% of dia.

60% of dia.

60% of dia

60% of dia.

60% of dia.

size diameter.

then decrease in

proportion for large

up to 48",

rootball diameter and depth shall comply with

as directed by the Landscape Architect. The remaining

hole shall be filled with suitable material or planting so

I. Removal of Plant Material:

CALIPER

1.75 - 2"

2 - 2.5"

35 - 4"

5 - 55"

- A. The Landscape Architect may inspect trees, shrubs, and aroundcover either at the place of arouth or at the site before planting for compliance with the requirements for name, variety, size, and quality. The Landscape Architect retains the right to further inspect trees and shrubs for size and condition of balls and root system, insects, injuries, and latent defects, and try to reject unsatisfactory of defective material at any time during the progress of work shrubs within 7 days from the project site.
- B. Responsibility for Assuring Quality Work:
- (1) The Contractor's Superintendent shall speak English and be well versed in Florida plant material, planting operations, Plan and Specification interpretation coordination with other contracts or service in the project area and coordination between the nursery and
- (2) All employees shall be competent and highly skilled in their particular job in order to properly perform the responsible for maintaining the quality of the material on the project.
- (3) The Contractor will comply with applicable Federa State, County and local requirements governing landscape materials and work
- (1) Plant material shall be Florida 4 or better as set forth in the latest edition of the Florida Department
- (2) All plant material will be subject to the approval of the Landscape Architect for quality, size and color. Plants lacking the compactness or proper proportions, plants which are weak or thin, and plants injured bu close planting in nursery rows will not be accepted grades to meet certain specification requirements will be

Agriculture's Grades and Standards for Nursery Plants

(3) Plant material shall have normal, well developed branches and shall be vigorous plants, free from defects, decay, burns disfiguring roots, sun-scald injuries, abrasion of the bark, plant diseases, insecpest eggs, barers, and all forms of infestations or objectionable disfigurements.

### Planting Soil:

- A. All plant material, unless indicated otherwise, shall be installed with a planting soil composed of sandy loam (50% sand, and 50% muck) typical of the locality. The soil must be taken from ground that has never been stripped, with a slight acid reaction (5.5 to 6.5 ph) and without an excess o calcium or carbonate. Soil shall be delivered in a loose friable condition.
- A. Potable, from municipal water supplies or other sources which
- are approved by a public health department
- A. Mulch shall be:
- (1) "Floramulch" or other approved recycled mulch (approval by Landscape Architect or other governing agency)
- A. New and existing Trees and Palms: Fertilize with 8-2-12 palm fertilizer with micronutrients
- B. New and existing Shrubs, and Groundcover: Fertilize with 8-2-12 palm fertilizer with micronutrients at a rate of ½ lb. per 1000 SF of area.
- C. Annuals: Fertilize with Osmocote Sierra blend 14-14-14 or approved equal.
- D. Composition and Quality: All fertilizer shall be uniform in composition and dry. Granular fertilizer shall be free lowing and delivered in unopened bags. All bags containers or boxes shall be fully labeled with the manufacturer
- E. All fertilizer shall comply with the State of Florida

A. Disposal of Trash: All debris and other objectionable

B. Excess Fill: All excess fill which results from the

Excess fill shall be disposed of as directed.

be thoroughly swept.

to person or property.

Completion and Final Acceptance

on this final inspection.

Protection:

material created through planting operation and landscape

from the job or as directed by the Landscape Architect, And

paved areas including curbs and sidewalks which have been

strewn with soil, sod waste, fertilizer or other debris shall

installation of the project shall remain the property of the

All excess fill which the Owner does not want shall be

Owner and remain on the project at the option of the Owner.

removed and disposed of from the project at no additional

cost. No excess fill shall be removed or disposed of from

A. Responsibility for Protection and Restoration of Property:

B. Protection Against Mechanical Damage: The Contractor's

she shall repair, restore and replace all property which

becomes damaged as a result of any negligence of the

A. Upon written notice from the Contractor of the presumptive

completion as defined below, of the entire project, the

will make an inspection within 48 hours after the written

contract Plans and Specifications, such inspection shall

constitute the final inspection. The Contractor shall be

Landscape Architect, along with other appropriate parties,

notice. If all construction provided for and compensated by

the contract is found to be completed in accordance with the

notified in writing of final acceptance as of the date of the

B. If, however, the inspection mentioned in paragraph A, above,

uneatisfactory, final acceptance shall not be given and the

necessary instructions or "punch lists". Upon correction

constitute the final inspection, provided the work has been

satisfactorily completed. In such event, the Owner or their

representative shall make the final acceptance and notify the

Contractor in writing of this final acceptance as of the sate

of work, another inspection will be made which shall

Owner and/or Landscape Architect will give the Contractor the

discloses any work, in whole or in part, as being

Contractor or his or her employees in complying with these

The Contractor shall be responsible for all damage or injury

responsibility for protection against mechanical damage shall

warning signs and barricades as might be necessary and he or

include providing protection from vehicles and providing

the site until approved by the Owner or Landscape Architect.

### Delivery, Handling and Storage:

- A. Delivery and Handling: (1) Movement of nursery stock shall comply with all Federal, State, and local laws, regulations, ordinances, codes, etc.
- (2) Protect during delivery to prevent damage to root ball or desiccation of leaves. Remove unacceptable plant materials immediately from the job site. Maintain and
- (3) Transport materials on vehicles large enough to allow covered to prevent wind damage during transit.
- (1) Deliver sod on pallets with root system protected from capable of being installed within 48 hours of cutting Submittale # Approvals
- A. Written request for approval to substitute a plant species or a plants designation (B4B, WB4B, CG etc.), type, grade, quality, size, quantity, etc. due to the non-availability of the material specified. Approval must be given by th Landscape Architect before the material is delivered and installed on the project. The Contractor must provide written proof that the specified plant material is
- B. Any request for the approval of an equal shall be in writing. Approval shall be given by the Landscape Architect before the
- C. Submit three prints of shop drawings for any special conditions not covered in the details indicated. This shall be for approval by the Landscape Architect before they are implemented in the project
- D. if requested by the Owner or Landscape Architect submit a material indicating the sources or suppliers of these materials and their locations for approval by the Landscape Architect before they are delivered and installed on the project. Also, two color photographs of each different item, showing different side views of the item shall be submitted with the schedule. Additional color photographs shall be submitted, if requested.
- E. if requested by the Owner or Landscape Architect, submit a letter indicating the sources or suppliers of all sod and the before it is delivered and installed on the project.

### Staking and Guying:

- A. Staking and guying shall be the responsibility of the Landecape Contractors. Staking and guying shall not be attached directly to the plant material with nails. Also, battens used in staking and guying shall not be attached to the plant material with nails. Any method of staking and guying other than those indicated in the details. shall receive approval from the Landscape Architect prior to their installation. Under no circumstances will approval be given to allow the plunging, burying, or planting of trees or paims so that the top of the grade, in order to eliminate the need of requirement of staking or guying.
- B. The Contractor is responsible for performing all staking and guying in accordance with all applicable regulations, ordinances and code requirements from the appropriate local jurisdiction the project is located in.

### EXECUTION inspection:

- A. Utilities (Above Ground and Underground):
- (1) The work area may have existing utilities, such as, but not limited to, irrigation, phone, electrical and storm sewer. The location of some of these existing utilities have been indicated on the Plans

### However, no guarantee is implied that the Plans are accurate or complete. It shall be the responsibility of the Contractor to verify the location of all such utilities, structures, etc., by hand excavation or other appropriate measures before performing any work that could result in damage or injury to persons, utilities,

structures or property. The Contractor shall make a

thorough search of the site for utilities, structures,

F. If requested by the Owner or Landscape Architect, submit a

and installed on the project.

quarantee of plant material.

sample and analysis of all planting soil types for approval by the Landscape Architect before the material is delivered

H. If requested by the Owner or Landscape Architect, submit a

Architect before the material is delivered and installed on

. Submit three prints of shop drawing for all staking and

J. Submit in writing any hindrance to the owners routine

materials growth, or survival, that would affect the

 $\ensuremath{\mathsf{K}}$  . Submit in writing any hindrance to the timely completion of

be required by, State, local or Federal Authorities.

A. When the specifies plant designation (B&B, WB&B, CG etc.)

available, the Contractor shall submit a written request,

WB4B, CG, etc.), type grade, quality, size, quantity, etc.

of material is not available. The Landscape Architect

to the Landscape Architect, for a substitution along with

written, documented proof that the plant designation (B4B

shall approve all substitutions before they are delivered and

anticipated to be a substitute, before it has been submitted

installed. Do not deliver and install any material, which is

in writing and approved as a substitute by the Landscape

Architect. Also, ant changes, if any, to the contract amount

because of an approved substitute, shall be established in

writing between the Owner and the Contractor before the

material substitute is delivered and installed on the

type, grade, quality, size, quantity, etc. of a material is not

L. Submit and Certificate of inspection of plant material as may

guying methods to be used if the ones indicated in these

opecifications and on the Plans are not to be implemented.

staking and guying methods before they are implemented in the

cape Architect will approve all shop drawings of

sample and analysis of the mulch for approval by the Landscape

- etc., before work is commenced in any particula (2) The Contractor shall take immediate steps to repair, replace, or restore all services to any utilities or other facilities which are disrupted due to his or her additional outside services which may be necessary to prosecute repairs on a continuous "around the clock basis until services are restored. He or she shall also
- provide and operate any supplemental temporary services to maintain uninterrupted use of the facilities. All service resulting from negligence on the part of the Contractor shall be borne by the Contractor and he or she shall be fully responsible for any and all claims resulting from the damage. (3) Should utilities, structures, etc., be encountered which
- interfere with the work, the Landscape Architect shall made on the relocation of the work so it will clear the obstruction, if the obstruction cannot be relocated. (4) The Contractor shall not purposefully disrupt or
- disconnect any type of utility whatsoever without first obtaining the written permission of the Landscape Architect. Requests for disconnection must be in writing and received by the Landscape Architect at least 72 hours prior to the time of the requested interruption.

- A. Its shall be the responsibility of the Contractor to provide the final grading so the final level for planting areas conforms to surrounding grades and is at the proper elevation with relation to walks, paving, drain structures and other site conditions, unless indicated otherwise on the plant
- B. Plant Area Next to Pavement: All planting areas next to pavement areas, such as, but not limited to, curbs, roads, drives, walks, terraces, decks and slabs shall be set so that the TOP OF THE MULCH IS I INCH BELOW THE TOP OF THE PAVEMENT AREA or as indicated otherwise on the plans.

A. Staking Plant Locations: Stake or mark plant material locations prior to plant hole excavation, based on information from the plans.

- E. Final acceptance shall not be official until acknowledged in writing by the Owner or their representative.
- F. The guarantee shall not begin until the day final acceptance
- complete list, but only a summary of certain responsibilities A. The Contractor is responsible for the entire project prior to written acceptance.
- B. The Contractor is responsible for safety on and off the job
- C. Maintenance Prior to Final Acceptance:
- (1) Maintenance shall begin immediately after each plant is planted and continue until final acceptance.
- edging, pruning, weeding, cultivating, repair of erosion, mulching, tightening and repairing of guys, stakes, braces, etc., replacement of sick or dead plants, replacement of sod areas which do not become established, resetting plants to proper grades or upright position, maintenance of the watering sauce tter removal, and all other care needed for prope growth of the plants
- (3) immediately after planting, each plant shall be watered and the watering period shall continue until final acceptance. Refer to the heading "Watering", which is in Part 3 of these Specifications, for additional
- (4) All plant material shall be weeded once a week, in the event that weeds or other undesirable vegetation becomes prevalent to such as extent that they threaten plant Landscape Architect. If necessary, the plant material, mulch, sand and/or planting soil shall be replaced as needed to eliminate weeds or undesirable vegetation at the expense of the Contractor.

- C. Completion of the work shall mean the full and exact compliance and conformity with the provisions expressed of nplied in the Plans and Specifications including any and all "bunch lists" which may be issued outlining certain items of work which were found unsatisfactory or required completion or
- D. Final acceptance shall not be given until all construction provided for and contemplated by the contract is inspected and found to be completed in accordance with contract Plans
- Certain responsibilities prior to Final Acceptance: The following

- (2) Plant maintenance shall include watering, mowing,

- - (5) Edge and mow sod once a week (6) Edge and weed all shrubs, groundcover and flower beds once a week (1) Remove all litter once a week
- (8) Spraying and Dusting: Contractor shall do all seasona spraying and/or dusting of all planting, as needed, for complete control of pests and diseases. The materials and methods shall be in accordance with the highest standard horticultural practices and as recommended by
- the County Agent, and approved by the Landscape (9) Sod: After the sod has been laid, tamped and top dressed, all areas and parts of area which fail to shou uniform growth and health, shall be resodded, repeatedly if necessary, until all sodded areas are covered with a satisfactory lawn. Damage resulting from erosion, guilles, washouts, or other causes shall be repaired by

ing with topsoil, tamping, refertilizing, and

esodding by the Contractor at his or her expense.

- (10) Protection: Plant material shall be protected against trespassing and damage. If any plants become damaged o njured, they shall be treated or replaced as directed and in compliance with the Specifications at no additional cost. No work shall be done within or over planting areas or adjacent to plants without proper safeguards and protection.
- (11) Keep sidewalks, curbs and gutters, driveways, parking areas, streets, terraces, decks, and pavers free of plant cuttings, debris and stains.
- D. Material rejected during the course of construction shall be removed within 3 working days and replaced before an inspection for completion will be scheduled. E. Survival and Conditions: The Contractor shall be responsible for the proper maintenance and the survival and condition of
- installed until final acceptance F. Replacement: Replacement of plant material shall be the responsibility of the Contractor including the possible replacement of plant material resulting from removal by theft or vandalism or acts of negligence on the part of others. All plant material shall be alive and in good growing condition for each specific kind of plant at the time of

all landscape items from the time a landscape item is

G. Rating: The rating of plant material according to Florida Grades and Standards shall be equal to or better than called for on the Plans and in these Specifications at the time of

- A. The guarantee shall not begin until the day final written
- B. All sod shall be guaranteed for a minimum of 60 days from the time of final acceptance. All trees, palms and shrubs are to be guaranteed for one year from the
- C. The guarantee shall be null and void for plant material which is damaged or dies as a result of "Acts of God" limited to hail, freeze, lightning, and winds which exceed hurricane force, providing the plant was in a healthy growing condition prior to these "Acts of God".
- D. At the option of the Owner, and inspections may be made at the end of the guarantee period, but prior to the last day of the
- guarantee period.  $\ensuremath{\mathsf{A}}.$  The guaranteeing of a plant material shall be construes to mean
- (1) Not in a healthy growing condition and thus renders it below the minimum quality indicted in the

the complete and immediate replacement of plant material

- (2) There is a question to its ability to survive after the end of the quarantee period that would render it below the minimum quality indicated in the Specifications. (3) it is dead.
- B. The 3 calendar days may be extended due to seasonal conditions, availability, preparation time such as root pruning, etc., only if approved by the Landscape Architect is advance. The extended time shall be negotiated between all parties concerned, but must receive final approval by the
- C. Size, Quality, and Grade:

Specifications.

- (1) Replacement plant material shall be one of the same species quality and grade as that of the plant to be replaced The size of the replacement shall not necessarily be the same size as the original specified plant at its initial plant to be replaced at the time it has been determined that it must be replaced.
- B. Spacing of Groundcover & Shrubs: The location of a planting bed (shrub or groundcover) next to another bed, walkway, structure, etc., shall have the plants along the meter spaced so that the plants can mature proper without growing into the other bed, walkway, structure, etc.
- C. The rootballs of B&B plants which cannot be planted immediately shall be covered with moist soil or mulch to insure protection from drying winds and sun. All plants shal be maintained as necessary until planting.
- D. Subsurface Conditions: Some or all work areas may be compacted and/or contain existing material such as limerock which may interfere with adequate vertical drainage and/o proper plant survival and growth and therefore removal of this material is part of the scope of work for the project. drainage in these areas and shall remove this existing material, as required, by such means as auguring, drilling or rototilling. If necessary, excavate to a depth beyond the required excavation depth for the plant hole, in order to insure proper vertical drainage necessary for plant surviva
- E. Remove undesirable existing vegetation present on the project by use of chemicals and/or mechanical means which are acceptable to the Landscape Architect. Apply chemicals as misuse of the chemicals which will cause detrimental residual conditions. Care shall also be used so that any final grades
- F. Excavation of Plant Holes:

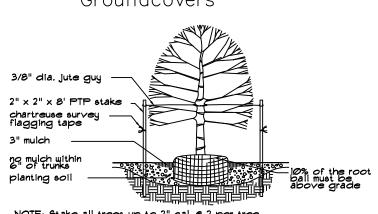
### (1) General:

- a. Excavation of plant holes shall be roughly vertical. The Landscape Architect reserves the right to adjust the size and shape of the plant hole and the location of the plant in the hole to unanticipated factors which are a conflict.
- b. The excavated material from the plant holes shall not be used to backfill around the plant material Such material shall be disposed of either on the project site or off the site, as directed by the
- A. General: The Contractor shall lay out on the ground the locations for the plants and outlines of areas to be planted and obtain approval of the Landscape Architect befor excavation is begun. The Landscape Architect may adjust

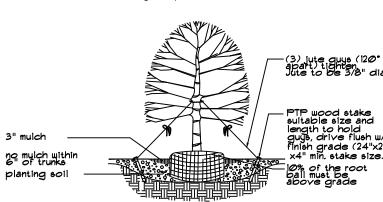
# the location of specifies plant materials prior to planting.

PLANTING DETAILS

## spacing on center ∨aries see plant list Say de la companya de Groundcovers



NOTE: Stake all trees up to 2" cal. @ 2 per tree. All plastic nursery tape / flagging must be removed from all plants. Tree Staking, up to 2" cal.



NOTE: Guy all trees larger than 2" cal. All plastic nursery tape / flagging must be removed from all plants. Tree Staking, above 2" cal.

### However, if for some reason, the plant to be replaced is smaller than the size originally specifies, the replacement shall be at least equal to the originally

- (2) Replacements shall be guaranteed for a period equal to the originally specifies guarantee. This guarantee
- period shall begin at time of acceptable replacement (3) Final payment to the Contractor shall not relieve he or she of the quarantee obligations.
- Plan and Specification Interpretation:
- A. On the Plans, figured dimensions shall govern over scaled dimensions. If any error or discrepancy is found in the Plans and Specifications, the Contractor shall refer the same to the Landscape Architect for an interpretation and decision In resolving conflicts between the Plans and Specifications. Landscape Architect shall have the right to correct apparent errors or omissions in the Plans and Specifications necessary for the proper fulfillment of the intent of the

### Permits and Codes:

Plans and Specifications.

A. The Contractor shall procure all necessary permits to accomplish all of the work B. The Contractor is responsible for performing all work in accordance with all applicable regulations, ordinances and

### code requirements from the appropriate city, county, state and/or Federal jurisdiction the project is located in. Changes and Additional Work:

- A. The Contractor shall not start on any changes or additional work in the project until a written agreement setting forth the adjusted contract amount has been executed by the Owne and the Contractor. Any work performed on any changes or additional work prior to the execution of a written agreemen may or may not be compensated for.
- "Job Site, "Project Site Etc.": A. The words "job site", "project site", "job", "project" and "site" shall be synonymous with one another when used in

### Safety On and Off the Job Site:

site shall be the sole responsibility of the Contractor. The andecape Architect shall not be responsible for safety on or off the job site.

after settlement, a normal or natural relationship

A. In performing the scope of work, all safety on of off the job

## B. Setting of Plants (1) All plants shall be set at the proper level so that

- between the crown of the plant and the surrounding ground surface exists. The plants shall be set vertically. After excavation of planting pits and prior to placement of the plant material, fill the planting pits with water. The plant hole shall be backfilled w topsoil mixture placed in layers around the roots or ball. Each layer shall be carefully tapped in place. be filled with water and the soil allowed to settle around the roots± the ball ties shall be cut and at the burlap peel down 1/3 from the top of the rootball and cut or adjusted to prevent the formation of air pockets before applying the water. After the water has been absorbed the plant hole shall be filled with topsoil mixture and
- (2) All sabal and queen palms shall be backfilled with clean

tapped to grade. Subsoil removed from tree pit shall

not be mixed or used in any way with the topsoil

- thoroughly washed in during the planting operation. (3) Water Saucer: A 4-inch high water saucer shall be formed around the rim of each individual tree or palm pit and maintained in place.
- (4) Plant material of the shrub category and smaller must be handled by the ball only. Plant material too large for hand handling, if moved by winch or crane, must be thoroughly protected from chain, rope, or cable marks damage that might occur by improper handling or
- and rootball at the same time and not by the trunk only. Trunks shall be thoroughly protected. (6) Container grown plant material shall be carefully

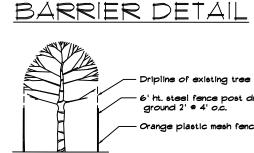
### removed from the container so as not to disturb the root system.

- (1) Soil Preparation: Within 24 hours prior to placing sod, prepare the soil in the following manner a. Uniformly apply formula 8-8-8 fertilizer over the
- area at a rate of 25 pounds per 1,000 square feet. b. Remove stones and foreign matter over two inches in

# c. Grade the sod areas so that the top of the sod will be at finished grade after rolling and tamping.

## 3" mulch --finished grade Shrubs 2" x 4" PTP wood blocking banded around trunk ( not nailed ) w/ triple layer burlap between trunk and blocking -(3) 4" x 4" x 8' braces nailed into blocking chartreuse survey -trunk flare or top root visible on surface 3" mulch \_\_\_\_ existing grade euitable size and length to hold braces (24" x 2" x 4" min. ) drive flush w/ finish

grade, stake nailed to brace Straight Trunk Palms EXISTING TREE



PROTECTION

— 6' ht. steel fence post driven into ground 2' ≈ 4' o.c. – Orange plastic mesh fencing

The Landscape Architect's on site observations or inspections shall be only for the purpose of verifying that the Plans and Specifications are being implemented properly. The Landscape Architect's on site observations or inspections are not for

- A. The Contractor shall make requests for on site observations
- B. If an inspection is related to completion and final acceptance, the request shall be made in writing 48 hours in
- C. An inspections at the growing site does not preclude the right of rejection at the project site. D. The fact that the Landscape Architect has not made an early on site observation or inspections to discover faulty work or

work omitted, or work performed which is not in accordance

with the contract requirements, shall not bar the Landscape

Architect from subsequently rejecting such work at a later E. The Landscape Architect's on site observations or inspections shall be only for the purpose of verifying that the Plans and Specifications are being implemented properly. The Landscape Architect's on site observations or inspections are nor

## Plant Material

- material which is only available as a collected item from sources such as residences.
- B. Except where another grade is specifically called for in the Plane, all plant material, including collected material if epecified, shall be no less than Florida 4, or better, at the time of installation and final acceptance. Existing plant material to remain or to be relocated shall be excluded from this requirement.
- C. Habit of Growth: All plant material shall have a habit of growth that is normal for that species and shall be sound, healthy, vigorous and free from insects, plant diseases and
- a. Place sod with staggered joints closely butted, tamped or rolled to an even surface to the required finished grade. Avoid continuous seams along lines of water flow in swales. Place sod in rows at right angles to slope.
- b. Water sod every day for a period of three week
- of 8-8-8 formula fertilizer per 1,000 square feet of lawn. d. No sod shall be used which is not certified as being free of the imported fire ant. Before any sod is brought to the site, furnish a written certification

### or Federal Department of Agriculture. (3) Maintenance of Sod:

a. It shall be the responsibility of the Contractor to replace any areas of sod that are not in healthy growing condition.

b. The Contractor shall completely maintain the sod

- D. Planting Beds:
- (2) Spread 50% organic fertilizer at a rate of 4 pounds per 1000 square feet uniformly over the groundcover area.
- (4) Fine grade to remove all trash, rocks, and debris to

(1) Areas to be mulched shall have existing weeds and

approved fill material.

# On Site Observations and inspections

- or inspections 48 hours in advance and they shall be in writing, if directed by the Landscape Architect.
- intended to take charge, direct, run or manage the implementation o the Plans and Specifications or take

### charge, organize or manage the Contractor while performing the scope of work indicated in these Specifications.

- A. Plant material shall be nursery grown except: (1) Where specified as collected material
- (2) Where approved by the Landscape Architect for such plant

## (2) Placing Sod:

- c. Fertilize sod three weeks after planting with 12 pounds
- of clearance from pest control officials of either State

- until final acceptance by mowing or spraying as
- (1) Spread six inches of topsoil mixture uniformly over the entire planting area.
- (6) Thoroughly water and firm the plants into the soil mixture

(5) Regrade to finish grade before adding two inches mulch.

vegetation removed, including root systems, before applying mulch. (2) Grades are to be uniform. Grade areas which are rough and uneven. Fill in voids and holes with planting soil or other

# GENERAL NOTES

1. ALL PLANTS TO BE FLORIDA NO. 1 OR BETTER

UTILITIES TO AVOID DAMAGE.

- 2. NO SUBSTITUTIONS WILL BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT 3. ALL LANDSCAPED AREAS TO RECEIVE 150% IRRIGATION COVERAGE BY AN AUTOMATIC, UNDERGROUND SPRINKLER SYSTEM EQUIPPED WITH A RAIN SENSOR. IF THE SOURCE OF WATER FOR THE IRRIGATIONH SYSTEM IS NOT POTABLE OR RECLAIM WATER, AND THE WATER STAINS SITE IMPROVEMENTS, SUCH AS BUILDINGS, PAVING, ETC., THE CONTRACTOR WILL NEED TO INSTALL AN INJECTION TYPE RUST CONTROL SYSTEM. 4. QUANTITIES ON PLANT MATERIALS ARE FOR CONVENIENCE ONLY.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOUN ON PLANTING PLANS. WHEN DISCREPANCIES OCCUR BETWEEN PLANT LIST AND PLANTING PLANS. THE PLANS ARE TO OVERRIDE THE PLANT LIST IN ALL CASES, SOD QUANTITY IS TO BE DETERMINED BY CONTRACTOR PRIOR TO BIDDING 5. CONTRACTOR 16 RESPONSIBLE FOR LOCATING ALL UNDERGROUND
- 6. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, AND PLANTS NECESSARY FOR THE PROPER PLANTING OF ALL TREES, SHRUBS GRO SHOWN ON LANDSCAPE ARCHITECT'S PLANTING PLANS.
- 1. ALL GROUND COVER BEDS TO ABUT PARKING, BUILDING, SIDEWALKS, ETC., IN A PERPENDICULAR LINE. 8. ALL TREES AND PALMS TO BE STAKED AND GUYED.
- 9. ALL PLANTED AREAS ARE TO BE MULCHED WITH "FLORAMULCH", 10. ALL PLANT MATERIAL TO BE BACKFILLED WITH 50% CLEAN MUCK AND 50% SAND AND BE FERTILE, AND FRIABLE. 1. GROUNDCOVER AND SHRUBS TO BE LAID OUT IN A UNIFORM AND

### EXCAVATION DETAIL THE CONTRACTOR MUST ADHERE TO THE FOLLOWING: - BACK OF CURB (TYP) - EXCAYATION AREA (30" DEPTH) - COMPACTED SOIL (12" WIDE)

1'-0"--

APPLIES TO ALL LANDSCAPE ISLANDS, INTERIOR LANDSCAPE STRIPS, PERIMETER LANDSCAPE STRIPS, & MEDIANS WITHIN THE PARKING LOT AND PLANTING AREAS. ADJACENT TO VEHICULAR USE AREAS. THESE AREAS TO BE BACKFILLED WITH 50/50 SOIL MIX.

up to 48", then decrease in proportion for large size diameter. b. Height: The height of plant material shall be measured from finish grade and continue up to where the main mass of the plant uniformly ends. The height shall not include any singular or isolated

MIN. BALL DEPTH

65% of dia.

65% of dia.

65% of dia.

65% of dia.

60% of dia.

60% of dia.

branches, limbs or fronds, which extend out beyond the main mass of the plant. E. Die-Back and Leaf Drop: plant material showing signs of dieback of leaf-drop will not be accepted and must be removed Architect. Therefore, any plant material with tendencies toward leaf-drop or die-back must be root pruned early enough

parts of the plant, such as leaves, shoots,

D. Measurement of Trees, Palms, Shrubs, and Groundcover:

a. Rootball: Requirements for the measurement of

minimum rootball diameter and depth shall comply

and Standards for Nursery Plants, Part I and Part

MIN. BALL DIA.

increase in

proportion

with the Florida Department of Agriculture's "Grades

(1) Trees, Shrubs, and Groundcover:

2" as follows:

CALIPER

1,5 - 1,75"

5.5" or more

- to provide a sound network of hair roots prior to relocat F. Mechanical Destruction of Foliage: Mechanical destruction of foliage resulting from root pruning shall not effect more than 10% of the total foliage prior to planting on the project. Loss of foliage caused by seasonal change will be
- G. Spanish Moss: If Spanish Moss (Tillandsia usneoides) exists on plant material, it shall be completely removed prior to

planting on the project

indicated on the plans.

to facilitate transporting and handling. (3) The mulch shall be uniformly applied to a depth of approximately 3 inches, or other depth as indicated otherwise, over all shrub and groundcover areas, around

(1) Remove a minimum of fronds from the crown of the palme

F. Watering: (1) initially, water the plant material to develop uniform coverage and deep water penetration to the full depth of the root zone. Avoid erosion, puddling, and washing

trees and palms in sod areas and any other areas as

soil away from the roots. (2) Provide continuous watering of plant material after planting in order to achieve optimum growth conditions to establish plants. Water shall be applied as necessary and the amount of water and frequency of watering shall be based on the specific needs of each plant type, the time of year, amount of rainfall and other environmental conditions it is exposed to. This watering shall begin after the plant is planted and shall be watered, only during this period. Do not rely on the irrigation system, if there is one, to achieve required, without flooding areas beyond where water is needed and/or over watering other landscape material.

shrubs, groundcover and sod may be watered by using the

- irrigation system, if there is one hand water (3) If there is no source for water available at the project, such as a hose bib (s) or fire hydrant (s) if approved for use, then the Contractor shall be responsible for supplying water for watering, by such
- G. Pruning and Thinning: (1) The amount of general pruning and thinning shall be limited to the minimum necessary to remove dead or injured tuilgs and branches and to compensate for the loss of roots as a result of transplanting operations.

means as a water truck or tank

Landscape Architect may elect to be present during any pruning and thinning. H. Weeding: (1) in the event that weeds or other undesirable vegetation

becomes prevalent to such an extent that they threaten

plant material, they shall be removed as directed by the Landscape Architect. This condition shall apply until

Pruning and thinning shall be done in such a manner as

not to change the natural habit or shape of a plant.

(2) The Landscape Architect shall be contacted prior to

performing any major pruning and thinning. The

12. THE CONTRACTOR SHALL LAY OUT ON THE GROUND THE LOCATIONS FOR THE PLANTS AND OUTLINES OF AREAS TO BE PLANTED. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE LANDSCAPE ARCHITECT BEFORE EXCAYATION BEGINS, THE LANDSCAPE ARCHITECT MAY ADJUST THE LOCATION OF SPECIFIED PLANT MATERIALS PRIOR TO PLANTING. 13. TREES, PALMS, SHRUBS AND GROUNDCOVERS TO BE GUARANTEED TO BE GUARANTEED FOR ONE (1) YEAR AFTER FINAL WRITTEN ACCEPTANCE IS GIVEN BY OWNER OR LANDSCAPE ARCHITECT.

CAITE ACTOR IS RESPONSIBLE FOR PLANT MAINTENANCE

INTIL THE TIME OF WRITTEN ACCEPTANCE.

AND AUSTRALIAN PINE.

- 14. LANDSCAPING IN SAFE DISTANCE TRIANGLES SHALL BE MAINTAINED TO PROVIDE UNOBSTRUCTED VISIBILITY AT A LEVEL BETWEEN 2' AND 8' ABOVE FINISHED GRADE. 15. ALL PROHIBITED PLANT SPECIES (AS IDENTIFIED BY THE CITY, COUNTY, STATE) SHALL BE ERADICATED FROM THE SITE. THIS INCLUDES BUT IS NOT LIMITED TO MELALEUCA, BRAZILIAN PEPPER
- 16. ALL EXISTING AND NEWLY CREATED PLANTING BEDS TO BE CLEANED AND FREE OF WEEDS AND DEBRIS AND EXCAVATED AS REQUIRED TO FULFILL PLANTING SOIL REQUIREMENTS OF THE PLANTING DETAILS. 17. FILL HOLES WHERE EXISTING TREES OR PLANT MATERIAL HAVE BEEN REMOVED TO PROVIDE LEVEL SURFACE WITH SURROUNDING AREA AND SOD OVER IF NEW PLANT BEDS ARE NOT TO BE INSTALLED.
- IB. ALL PLANTING BEDS THAT ARE ADJACENT TO PAYING ARE TO BE LOWER THAN THE ADJACENT PAYING, SO THAT RUNOFF (MULCH, SOIL.) FROM THE BED DOES NOT RUN ONTO THE ADJACENT PAYING. 19. ALL LANDSCAPE ISLANDS, INTERIOR LANDSCAPE STRIPS AND PERIMETER LANDSCAPE STRIPS, & MEDIANS ADJACENT TO VEHICULAR USE AREAS, SHALL BE EXCAVATED DOWN TO A DEPTH OF THIRTY (30) INCHES DEPTH OF REPLACEMENT SOIL (50% MUCK, 50% SAND). NO ROAD ROCK, SHELL ROCK, LIMESTONE, OR OTHER ROAD BASE MATERIAL SHALL BE PRESENT WITHIN PLANTING ISLANDS OR PLANTING AREAS ADJACENT TO PAVED AREAS EXCEPT FOR THE FIRST 12" INTO THE PLANTING AREA AS REQUIRED TO SUPPORT THE CURB. THESE AREAS MUST HAVE AN OPEN BED INSPECTION PRIOR TO BACKFILLING TO INSURE THAT THEY HAVE BEEN EXCAVATED TO A 30" DEPTH.
- 20. ALL PLASTIC NURSERY TAPE TO BE REMOVED FROM TREE TRUNKS OF NEWLY PLANTED TREES. IF IT IS NECESSARY TO TIE TREE TRUNKS TO A STAKE, BIODEGRADABLE JUTE IS TO BE USED.
- 21. TREES PLANTED IN PARKING ISLANDS OR AROUND VEHICULAR USE AREAS SHALL NOT BE PLANTED WHERE THEY OBSCURE SIGNS.

the george

corner of george bush

blvd & ne 7th ave

delray beach, fl

dave bodker landscape architecture/planning inc.

601 n. congress ave., suite 105-a

delray beach, florida 33445

561-276-6311

n.t.s.

#LA0000999 sheet title: specifications

details, notes project number: date: 05/11/2020

scale:

drawn by: revisions:  $\Lambda$  7/28/20 city comments

sheet