Scope of Work:

- A. These Specifications and the requirements hereinafter will govern this project during the installation, guarantee and maintenance period.
- A. The work specified by this Section of the Specifications and on the Plans consists of furnishing all labor, machinery, tools, apparatus, means of transportation, supplies equipment, materials, services and incidentals necessary to complete the work as indicated on the Plans and in the Specifications, as well as all other related 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 guarantee.
- 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 locations shown in order to provide for any modifications which might be necessary.
- D. Investigation of Subsurface Condition: The Contractor shall be responsible for making site subsurface investigations and examination as he or she chooses in order to become familiar 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 that are installed at the time of request for payment. The contractor's unit prices shall be the basis for said paymer 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

- (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 until Palm fronds to accommodate an owners "grand opening" The Contractor may retie the palm after the event. This untying will not affect the guarantee or represent an additional cost to the owner.
- (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.
- Chlorosis: The allowable level of Chlorosis in foliage shall be set forth in the latest edition of the Florida Department 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.

Removal of Plant Material:

CALIPER

2 - 2.5"

3.5 - 4"

4 - 4.5"

5 - 5.5"

5.5" or more

A. Sod shall be solid sod and shall be standard quality grade. 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 nc. 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 suppor 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 adversely 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 leas three times with a lawn mower with final mowing not more than seven days prior to the sod being cut for placement. The sod 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

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

root pruned a minimum of 4 weeks 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

MIN. BALL DIA. MIN. BALL DEPTH

65% of dia.

60% of dia.

60% of dia.

60% of dia.

60% of dia.

size diameter.

then decrease in

proportion for larger

up to 48".

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

rootball diameter and depth shall comply with

increase in

proportion

exposed roots shall be cut off smoothly.

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

completely around the plant about 18 inches deep. All

as directed by the Landscape Architect.

J. Existing Plant Material to be Relocated:

completely, including the rootball, from the job or

as directed by the Landscape Architect. The remaining

hole shall be filled with suitable material or planting soi

### Quality Assurance:

- A. The Landscape Architect may inspect trees, shrubs, and groundcover either at the place of growth 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 The Landscape Contractor shall remove rejected trees or
- 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 work assigned to them. The Contractor shall be responsible for maintaining the quality of the material
- The Contractor will comply with applicable Federal, materials and work.
- Grade Standards
- (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 by close planting in nursery rows will not be accepted. Plant materials which have been cut back from larger grades to meet certain specification requirements will be

### Delivery, Handling and Storage:

- A. Delivery and Handling:
- 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 plants not to be crowded and damaged. Plats shall be covered to prevent wind damage during transit.
- (1) Deliver sod on pallets with root system protected from exposure to wind and sun. Deliver sod in quantities capable of being installed within 48 hours of cutting. Submittals & Approvals
- A. Written request for approval to substitute a plant species or a plants designation (B&B, WB&B, CG etc.), type, grade, quality, size, quantity, etc. due to the non-availability of the material specified. Approval must be given by the \_andscape Architect before the material is delivered and installed on the project. The Contractor must provide written proof that the specified plant material is unavailable.
- B. Any request for the approval of an equal shall be in writing. Approval shall be given by the Landscape Architect before the material is delivered and installed on the project
- C. Submit three prints of shop drawings for any specia 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 schedule of all specimen plant material and collected plant naterial indicating the sources or suppliers of these naterials 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 grade to be supplied for approval by the Landscape Architect before it is delivered and installed on the project.

A. Staking and guying shall be the responsibility of the

requirement of staking or guying.

jurisdiction the project is located in.

A. Utilities (Above Ground and Underground):

have been indicated on the Plans

Landscape Contractors. Staking and guying shall not be

guying other than those indicated in the details, shall

eceive approval from the Landscape Architect prior to thei

so that the top of the grade, in order to eliminate the need or

nstallation. Under no circumstances will approval be given

to allow the plunging, burying, or planting of trees or palms

B. The Contractor is responsible for performing all staking and

C. The decision of whether to stake or guy shall be left to the

discretion of the Contractor, provided it is not required

or auy shall not relieve he or she of the responsibility of

Also, it will not relieve he or she of the quarantee if the

(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

material dies as a result of blowing, falling or leaning over.

according to local regulations, ordinances and code requirements. However, a Contractors decision not to stake

resetting plant material if it blows, falls or leans over.

guying in accordance with all applicable regulations, ordinances and code requirements from the appropriate local

Staking and Guying:

### F. If requested by the Owner or Landscape Architect, submit a sample and analysis of all planting soil types for approval

- by the Landscape Architect before the material is delivered acceptance is given. sample and analysis of the mulch for approval by the Landscape
- 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 guying methods to be used if the ones indicated in these pecifications and on the Plans are not to be implemented. staking and guying methods before they are implemented in the The Landscape Architect will approve all shop drawings of
- Submit in writing any hindrance to the owners routine maintenance or lack of, that may affect installed plant materials growth, or survival, that would affect the
- K. Submit in writing any hindrance to the timely completion of the installation. Submit and Certificate of inspection of plant material as may
- be required by, State, local or Federal Authorities.

quarantee of plant material.

A. When the specifies plant designation (B&B, WB&B, CG etc. type, grade, quality, size, quantity, etc. of a material is not available, the Contractor shall submit a written request, to the Landscape Architect, for a substitution along wi written, documented proof that the plant designation (B&B WB&B, CG, etc.), type grade, quality, size, quantity, etc. of material is not available. The Landscape Architect shall approve all substitutions before they are delivered and installed. Do not deliver and install any material, which is anticipated to be a substitute, before it has been submitted in writing and approved as a substitute by the Landscape Architect. Also, ant changes, if any, to the contract amoun 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

However, no guarantee is implied that the Plans are

utilities, structures, etc., by hand excavation or other

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

etc., before work is commenced in any particular

(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

o maintain uninterrupted use of the facilities. All

basis until services are restored. He or she shall also

costs involved in the repairs and restoring disrupted

service resulting from negligence on the part of the

she shall be fully responsible for any and all claims

(3) Should utilities, structures, etc., be encountered which

interfere with the work the Landscape Architect shall

obstruction, if the obstruction cannot be relocated.

obtaining the written permission of the Landscape

Architect. Requests for disconnection must be in

A. Its shall be the responsibility of the Contractor to provide

with relation to walks, paving, drain structures and other

site conditions, unless indicated otherwise on the plans

B. Plant Area Next to Pavement: All planting areas next to

A. Staking Plant Locations: Stake or mark plant material

locations prior to plant hole excavation, based on

pavement areas, such as, but not limited to, curbs, roads,

the TOP OF THE MULICH IS LINCH BELOW THE TOP OF THE

PAVEMENT AREA or as indicated otherwise on the plans.

drives, walks, terraces, decks and slabs shall be set so that

the final grading so the final level for planting areas

(4) The Contractor shall not purposefully disrupt or

be consulted immediately in order for a decision to be

nade on the relocation of the work so it will clear the

disconnect any type of utility whatsoever without first

uriting and received by the Landscape Architect at least

12 hours prior to the time of the requested interruption.

conforms to surrounding grades and is at the proper elevation

esulting from the damage.

Contractor shall be norne by the Contractor and he or

provide and operate any supplemental temporary services

appropriate measures before performing any work that

the Contractor to verify the location of all such

- 4. The guarantee shall not begin until the day final written
- B. All plant material, except sod,, trees and palms, shall be quaranteed for a minimum of I year from the time of fina acceptance. All sod shall be guaranteed for a minimum of 60 days from the time of final acceptance. All trees and palms are to be guaranteed for one year from the time of final
- The quarantee 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 quarantee period.
- A. The quaranteeing of a plant material shall be construes to mean the complete and immediate replacement of plant material within 3 calendar days if it is:
- (1) Not in a healthy growing condition and thus renders it below the minimum quality indicted in the Specifications.
- (2) There is a question to its ability to survive after the end of the guarantee period that would render it below the minimum quality indicated in the Specifications.
- 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 advance. The extended time shall be negotiated between all parties concerned, but must receive final approval by the Landscape Architect.
- C. Size, Quality, and Grade:
- (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 planting. The replacement shall be of equal size to the plant to be replaced at the time it has been determined

B. Spacing of Groundcover & Shrubs: The location of a

C. The rootballs of B&B plants which cannot be planted

D. Subsurface Conditions: Some or all work areas may be

be maintained as necessary until planting.

planting bed (shrub or groundcover) next to another bed,

walkway, structure, etc., shall have the plants along the

perimeter spaced so that the plants can mature properly

immediately shall be covered with moist soil or mulch to

insure protection from drying winds and sun. All plants shall

compacted and/or contain existing material such as limerock

which may interfere with adequate vertical drainage and/or

proper plant survival and growth and therefore removal of

he Contractor shall be responsible for insuring adequate

material, as required, by such means as auguring, drilling or

rototilling. If necessary, excavate to a depth beyond the

insure proper vertical drainage necessary for plant survival

Remove undesirable existing vegetation present on the project

acceptable to the Landscape Architect. Apply chemicals as

conditions. Care shall also be used so that any final grades

misuse of the chemicals which will cause detrimental residual

recommended by the manufacturer. Exercise care to avoid any

required excavation depth for the plant hole, in order to

by use of chemicals and/or mechanical means which are

which have been established are not altered

a. Excavation of plant holes shall be roughly

cylindrical in shape with the sides approximately

vertical. The Landscape Architect reserves the

and the location of the plant in the hole to

b. The excavated material from the plant holes shall

not be used to backfill around the plant material.

locations for the plants and outlines of areas to be planted

and obtain approval of the Landscape Architect before

the location of specifies plant materials prior to planting

excavation is begun. The Landscape Architect may adjust

Such material shall be disposed of either on the

project site or off the site, as directed by the

A General: The Contractor shall law out on the ground the

compensate for unanticipated structures or

unanticipated factors which are a conflict

andscape Architect.

ight to adjust the size and shape of the plant hole

F. Excavation of Plant Holes:

(1) General:

this material is part of the scope of work for the project.

drainage in these areas and shall remove this existing

without growing into the other bed, walkway, structure, etc.

However, if for some reason, the plant to be replaced is

smaller than the size originally specifies, the

(2) Replacements shall be guaranteed for a period equal to the originally specifies guarantee. This guarantee period shall begin at time of acceptable replacement.

replacement shall be at least equal to the originally

(3) Final payment to the Contractor shall not relieve he or she of the guarantee 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 n resolving conflicts between the Plans and Specifications, THE PLANS SHALL GOVERN over the Specifications. The Landscape Architect shall have the right to correct apparent errors or omissions in the Plans and Specifications and to make such interpretations as he or she may deem necessary for the proper fulfillment of the intent of the Plans and Specifications.

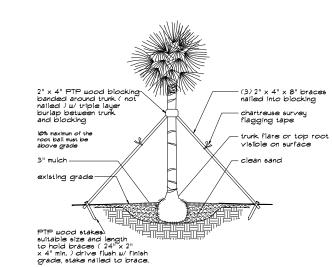
- A. The Contractor shall procure all necessary permits to accomplish all of the work
- 3. The Contractor is responsible for performing all work in accordance with all applicable regulations, ordinances and code requirements from the appropriate city, county, state and/or Federal jurisdiction the project is located in
- Changes and Additional Work:
- . The Contractor shall not start on any changes or additiona 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 agreement may or may not be compensated for.
- "Job Site, "Project Site Etc.":
- 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:
- $\lambda$  . In performing the scope of work, all safety on of off the job site shall be the sole responsibility of the Contractor. The Landscape Architect shall not be responsible for safety on or off the job site.

### B. Setting of Plants:

- (1) All plants shall be set at the proper level so that after settlement, a normal or natural relationship 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 with opsoil mixture placed in layers around the roots or ball. Each layer shall be carefully tapped in place. When partially backfilled and compacted, the hole shall be filled with water and the soil allowed to settle 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 tapped to grade. Subsoil removed from tree pit sha not be mixed or used in any way with the topsoil
- (2) All sabal and queen palms shall be backfilled with clean 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 bit and maintained in blace.
- hand handling, if moved by winch or crane, must be horoughly protected from chain, rope, or cable marks Girdling, bark slippage, limb breakage and any other damage that might occur by improper handling or negligence.

(4) Plant material of the shrub category and smaller must be

- (5) All trees and palms shall be handled by both the trunk 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.
- C. Sod: (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.



### Straight Trunk Palms

Plant Material

(2) Where approved by the Landscape Architect for such plant material which is only available as a collected item om sources such as residences

The Landscape Architect's on site observations or inspections

safety on or off the job site.

On Site Observations and inspections:

shall be only for the purpose of verifying that the Plans and

Architect's on site observations or inspections are not for

A. The Contractor shall make requests for on site observations

acceptance, the request shall be made in writing 48 hours in

C. An inspections at the growing site does not preclude the right

). The fact that the Landscape Architect has not made an early

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

Architect's on site observations or inspections are nor

intended to take charge, direct, run or manage the

implementation o the Plans and Specifications or take

the scope of work indicated in these Specifications.

A. Plant material shall be nursery grown except:

(1) Where specified as collected material

shall be only for the purpose of verifying that the Plans and

charge, organize or manage the Contractor while performing

Specifications are being implemented properly. The Landscape

on site observation or inspections to discover faulty work or

or inspections 48 hours in advance and they shall be in

writing, if directed by the Landscape Architect.

B. If an inspection is related to completion and final

Specifications are being implemented properly. The Landscape

- B. Except where another grade is specifically called for in the Plans, all plant material, including collected material if specified, shall be no less than Florida \*1, 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.
- . 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

### (2) Placing Sod:

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

- 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 until final acceptance by mowing or spraying as

### D. Planting Beds:

twelve inches.

- 1) Spread six inches of topsoil mixture uniformly over the entire planting area
- (2) Spread 50% organic fertilizer at a rate of 4 pounds per 1,000 square feet uniformly over the groundcover area (3) Rotor mix, or by other approved method, to a depth of
- (4) Fine grade to remove all trash, rocks, and debris to depth indicated.
- (5) Regrade to finish grade before adding two inches mulch. (6) Thoroughly water and firm the plants into the soil mixture.
- E. Mulch: (1) Areas to be mulched shall have existing weeds and
- 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 approved fill material.

## project:

dave bodker

### GENERAL NOTES

- I. ALL PLANTS TO BE FLORIDA NO. I OR BETTER. 2. NO SUBSTITUTIONS WILL BE ACCEPTED WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT
- 3. ALL LANDSCAPED AREAS TO RECEIVE 150% IRRIGATION COVERAGE BY N AUTOMATIC, UNDERGROUND SPRINKLER SYSTEM EQUIPPED WITH A RAIN SENSOR. 4. QUANTITIES ON PLANT MATERIALS ARE FOR CONVENIENCE ONL'
- ANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOWN 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 IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITITES TO AVOID DAMAGE.
- 6. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS FOOLS, EQUIPMENT, LABOR, AND PLANTS NECESSARY FOR THE PROPER PLANTING OF ALL TREES, SHRUBS GROUNDCOVERS, AND GRASS AS SHOWN ON LANDSCAPE ARCHITECT' S PLANTING PLANS.
- 1. ALL GROUNDCOVER BEDS TO ABUT PARKING, BUILDING, SIDEWALKS, TC., 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. II. GROUNDCOVER AND SHRUBS TO BE LAID OUT IN A UNIFORM AND

### 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. landscape architecture/planning inc

- UNTIL THE TIME OF WRITTEN ACCEPTANCE. LANDSCAPING IN SAFE DISTANCE TRIANGLES SHALL BE MAINTANED TO PROVIDE UNOBSTRUCTED VISIBILITY AT A LEVEL BETWEEN 2' AND 8'
- . 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. 18. FILL HOLES WHERE EXISTING TREES OR PLANT MATERIAL HAVE BEEN
- FROM THE BED DOES NOT RUN ONTO THE ADJACENT PAVING. 20. ALL PLANTING ISLANDS WITHIN THE PARKING LOT AREA MUST HAVE A MINIMUM — 3' DEPTH OF SOIL EITHER FROM EXISTING SOIL PRESENT, IF OF GOOD QUALITY, TO PROMOTE PLANT GROWTH, OR OF REPLACEMENT SOIL (50% MUCK, 50% SAND). o ROAD ROCK, SHELL ROCK, LIMESTONE, OR OTHER ROAD BASE MATERIAL date: HALL BE PRESENT WITHIN PLANTING ISLANDS.

### delray beach, florida 33445 561-276-6311 #LA0000999

601 n. congress ave., suite 105-a

specifications

sheet title:

drawn by: jae

sheet:

### directed by the Landscape Architect. For wire, hog wire shall be used and it shall be placed around the rootbal before before the plant is removed from the hole for relocation. The wire shall be looped and tensioned until the burlapped ball is substantially packaged by the tightened wire netting formed by the hog wire, so as to prevent disturbance of the loose soil around the roots during handling.

(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

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

# shrubs within I days from the project site.

- on the project. State, County and local requirements governing landscape

- (1) Plant material shall be Florida #1 or better as set forth in the latest edition of the Florida Department of Agriculture's Grades and Standards for Nursery Plants.
- (3) Plant material shall have normal, well developed branches and shall be vigorous plants, free fro defects, decay, burns disfiguring roots, sun-scalo injuries abrasion of the bark plant diseases insec pest eggs, barers, and all forms of infestations or

### 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

- are approved by a public health department.
- A. New and existing Trees and Palms: Fertilize with  $8-\overline{2}$ -12 palm fertilizer with micronutrients
- Fertilize with 8-2-12 palm fertilizer with micronutrients at a rate of ½ lb. per 1000 SF of area.
- 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 flowing and delivered in unopened bags. All bags containers

### 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

be taken from ground that has never been stripped, with a slight acid reaction (5.5 to 6.5 ph) and without an excess of calcium or carbonate. Soil shall be delivered in a loose friable condition.

A. Potable, from municipal water supplies or other sources which

- A. Mulch shall be:
- (1) "Floramulch"
- per manufacturer's recommendations. B. New and existing Shrubs, and Groundcover:
- C. Annuals: Fertilize with Osmocote Sierra
- or boxes shall be fully labeled with the manufacturer's

- E. All fertilizer shall comply with the State of Florida

- A. Disposal of Trash: All debris and other objectionable material created through planting operation and landscape construction shall be removed completely on a daily basis from the job or as directed by the Landscape Architect. Any paved areas including curbs and sidewalks which have been strewn with soil, sod waste, fertilizer or other debris shall
- All excess fill which the Owner does not want shall be removed and disposed of from the project at no additiona cost. No excess fill shall be removed or disposed of from the site until approved by the Owner or Landscape Architect.

be thoroughly swept.

Excess fill shall be disposed of as directed. Protection: A. Responsibility for Protection and Restoration of Property:

installation of the project shall remain the property of the

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

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

The Contractor shall be responsible for all damage or injury to person or property B. Protection Against Mechanical Damage: The Contractor's responsibility for protection against mechanical damage shall include providing protection from vehicles and providina warning signs and barricades as might be necessary and he or she shall repair, restore and replace all property which becomes damaged as a result of any negligence of the

Contractor or his or her employees in complying with these

requirements. Completion and Final Acceptance:

on this final inspection

A. Upon written notice from the Contractor of the presumptive completion as defined below, of the entire project, the Landscape Architect, along with other appropriate parties, will make an inspection within 48 hours after the written notice. If all construction provided for and compensated by the contract is found to be completed in accordance with the contract Plans and Specifications, such inspection shall constitute the final inspection. The Contractor shall be notified in writing of final acceptance as of the date of the

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

unsatisfactory, final acceptance shall not be given and the

constitute the final inspection, provided the work has been

representative shall make the final acceptance and notify the

Contractor in writing of this final acceptance as of the sate

satisfactorily completed. In such event, the Owner or their

Owner and/or Landscape Architect will give the Contractor the necessary instructions or "punch lists". Upon correction

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

of work, another inspection will be made which shall

- C. Completion of the work shall mean the full and exact compliance and conformity with the provisions expressed or implied in the Plans and Specifications including any and all "punch lists" which may be issued outlining certain items of work which were found unsatisfactory or required completion or corrective action. 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 and Specifications. E. Final acceptance shall not be official until acknowledged in
- Certain responsibilities prior to Final Acceptance: The following is a partial list of certain responsibilities. It is not a

The guarantee shall not begin until the day final acceptance

- B. The Contractor is responsible for safety on and off the job site.
- (1) Maintenance shall begin immediately after each plant is planted and continue until final acceptance (2) Plant maintenance shall include watering, mowing, edging, pruning, weeding, cultivating, repair of erosion, mulching, tightening and repairing of guys,
- 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

(4) All plant material shall be weeded once a week in the

prevalent to such as extent that they threaten plant

Landscape Architect. If necessary, the plant material,

nulch, sand and/or planting soil shall be replaced as

the expense of the Contractor.

material, the weeds shall be removed as directed by the

needed to eliminate weeds or undesirable vegetation at

- writing by the Owner or their representative.
- complete list, but only a summary of certain responsibilities.
- A. The Contractor is responsible for the entire project prior to written acceptance.
- C. Maintenance Prior to Final Acceptance:
  - 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 saucer, litter removal, and all other care needed for proper
  - in Part 3 of these Specifications, for additional

event that weeds or other undesirable vegetation becomes

(5) Edge and mow sod once a week

information from the plans.

Preparation

- (6) Edge and weed all shrubs, groundcover and flower beds (7) Remove all litter once a week.
- 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 Architect, prior to implementation. (9) Sod: After the sod has been laid, tamped and top dressed, all areas and parts of area which fail to show

uniform growth and health, shall be resodded, repeatedly

if necessary, until all sodded areas are covered with a

(8) Spraying and Dusting: Contractor shall do all seasonal

spraying and/or dusting of all planting, as needed, for

satisfactory lawn. Damage resulting from erosion, aullies, washouts, or other causes shall be repaired by lling with topsoil, tamping, refertilizing, and resodding by the Contractor at his or her expense. (10) Protection: Plant material shall be protected against trespassing and damage. If any plants become damaged or injured, 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

safequards and protection.

final acceptance.

areas, streets, terraces, decks, and pavers free of plant cuttings, debris and stains. ). Material rejected during the course of construction shall be removed within 3 working days and replaced before an inspection for completion will be scheduled.

all landscape items from the time a landscape item is

. Survival and Conditions: The Contractor shall be responsible

or the proper maintenance and the survival and condition of

(II) Keep sidewalks, curbs and qutters, driveways, parking

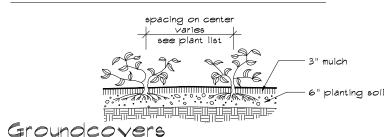
installed until final acceptance. Replacement: Replacement of plant material shall be the responsibility of the Contractor including the possible replacement of plant material resulting from removal by theft or vandalism or acts of negligence on the part of others. All plant material shall be alive and in good growing condition for each specific kind of plant at the time of final acceptance.

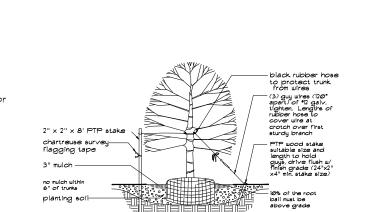
Rating: The rating of plant material according to Florida

for on the Plans and in these Specifications at the time of

Grades and Standards shall be equal to or better than called

# PLANTING DETAILS





NOTE: Stake all trees up to 2" cal. @ 2 per tree. Guy all trees larger than 2" cal Trees

# Shrubs

TREES AND PALMS TO BE GUARANTEED FOR ONE (1) YEAR, SHRUBS AND GROUNDCOVERS TO BE GUARANTEED FOR NINETY (90) DAYS AFTER FINAL WRITTEN ACCEPTANCE IS GIVEN BY OWNER OR LANDSCAPE ARCHITECT. CONTRACTOR IS RESPONSIBLE FOR PLANT MAINTENANCE

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

a. Rootball: Requirements for the measurement of

MIN. BALL DIA.

Increase in

proportion

b. Height: The height of plant material shall be

parts of the plant, such as leaves, shoots,

the main mass of the plant.

planting on the project

indicated on the plans.

soil away from the roots.

during this period.

G. Pruning and Thinning:

means as a water truck or tank

any pruning and thinning.

final acceptance.

F. Watering:

the main mass of the plant uniformly ends. The

height shall not include any singular or isolated

E. Die-Back and Leaf Drop: plant material showing signs of die-

to provide a sound network of hair roots prior to relocation

F. Mechanical Destruction of Foliage: Mechanical destruction of

project. Loss of foliage caused by seasonal change will be

foliage resulting from root pruning shall not effect more

than 10% of the total foliage prior to planting on the

G. Spanish Moss: If Spanish Moss (Tillandsia usneoides) exists

on plant material, it shall be completely removed prior to

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

to facilitate transporting and handling.

(3) The mulch shall be uniformly applied to a depth of

(1) Initially, water the plant material to develop uniform

(2) Provide continuous watering of plant material after

to establish plants. Water shall be applied as

the root zone. Avoid erosion, puddling, and washing

planting in order to achieve optimum growth conditions

watering shall be based on the specific needs of each

necessary and the amount of water and frequency of

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

continue until final acceptance. All trees and palms

shall be watered, only during this period. Do not rele

on the irrigation system, if there is one, to achieve

required, without flooding areas beyond where water is

project, such as a hose bib (s) or fire hydrant (s) if

responsible for supplying water for watering, by such

limited to the minimum necessary to remove dead or

injured twigs and branches and to compensate for the

oss of roots as a result of transplanting operations.

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

Landscape Architect may elect to be present during

(1) In the event that weeds or other undesirable vegetation

Landscape Architect. This condition shall apply until

becomes prevalent to such an extent that they threaten

plant material, they shall be removed as directed by the

performing any major pruning and thinning. Th

needed and/or over watering other landscape material.

shrubs, groundcover and sod may be watered by using the

this task It cannot deliver the volume of water

irrigation system, if there is one hand water

(3) If there is no source for water available at the

approved for use, then the Contractor shall be

(1) The amount of general pruning and thinning shall be

approximately 2 inches, or other depth as indicated

otherwise, over all shrub and groundcover areas, around

coverage and deep water penetration to the full depth of

trees and palms in sod areas and any other areas as

Architect. Therefore, any plant material with tendencies

measured from finish grade and continue up to where

oranches, limbs or fronds, which extend out beyond

back of leaf-drop will not be accepted and must be removed

from the project immediately if so directed by the Landscape

toward leaf-drop or die-back must be root pruned early enough

minimum rootball diameter and depth shall comply

and Standards for Nursery Plants, Part I and Part

with the Florida Department of Agriculture's "Grades

MIN. BALL DEPTH

65% of dia.

65% of dia.

65% of dia.

65% of dia

60% of dia

60% of dia.

60% of dia

60% of dia.

then decrease in

size diameter.

proportion for large

ub to 48",

(1) Trees, Shrubs, and Groundcover:

CALIPER

5.5" or more

- 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
- O PROVIDE LEVEL SURFACE WITH SURROUNDING AREA AN SOD OVER IF NEW PLANT BEDS ARE NOT TO BE INSTALLED. 19. ALL PLANTING BEDS THAT ARE ADJACENT TO PAYING ARE TO BE OWER THAN THE ADJACENT PAYING, SO THAT RUNOFF (MULCH, SOIL)

revisions:

project number: 212 8-3-12 scale: n.t.s.