Applicable Documents:

A. These Specifications and the requirements hereinafter will govern this project during the installation, guarantee and

Scope of Work:

- 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 inciden
- 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
- 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 familia: with the character of the existing material and the construction conditions under which he or she will work hese 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 brices shall be the basis for said baument 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.

(2) Palm frond tying shall be as set forth in the latest

additional cost to the owner.

by not more than one-third.

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 Landscap

Palm fronds to accommodate an owners "grand opening

untying will not affect the guarantee or represent an

(4) Palms with mechanical damage, such as from cables,

l. 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"

surrounding its roots has been cracked, broken or otherwise

K. Root pruning of plant material, when necessary, shall be done

Landscape Architect, prior to planting at the project.

A. Sod shall be solid sod and shall be standard quality grade

inc. The sod shall be well matted with roots and of firm

broad leaf weeds. Sod shall not accepted if it contains

quality grades (premium, standard or commercial) as

Note: Quality grade shall be based on the standards of sod

tough texture having a compact top growth and heavy root

development. Sod shall be free of objectionable grassu and

when suspended vertically from a firm grasp on the upper 10%

when moisture content (excessively dry or wet) may adversely

the soil embedded in the sod shall be a clean, earth, free of

stones and debris. The sod shall have been moused at least

three times with a lawn mower with final mowing not more than

than 12 inches by 24 inches and shall be live, fresh and

uninjured at the time of placement. It shall be planted

seven days prior to the sod being cut for placement. The sod shall be provided in commercial pad sizes measuring not less

within 48 hours after being cut and shall be shaded and kept

of the section. Sod shall not be harvested or transplanted

affect its survival. Sod shall be relatively free of thatch

up to one half inch allowable (uncompressed)

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

Bermuda Grass. Sod sections shall be strong enough to support

established by the Turf drass Producers Association of Florida

a minimum of 4 weeks, or for a period as determined by the

J. Plant material shall not be accepted when the ball of earth

chains, equipment and nails, shall be rejected.

The Contractor may retie the palm after the event. This

(3) To reduce head volume, Palm fronds may be taper trimmed

Architect may direct the Landscape Contractor to untie

G. The Landscape Contractor will coordinate his work with all other trades at the job site.

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 Architec 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 o defective material at any time during the progress of wo The Landscape Contractor shall remove rejected trees or shrubs within I 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 work assigned to them. The Contractor shall be responsible for maintaining the quality of the material on the project.
- (3) The Contractor will comply with applicable Federal, 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
- (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 large grades to meet certain specification requirements will be
- (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, insec pest eggs, barers, and all forms of infestations or

A. All plant material, unless indicated otherwise, shall be

are approved by a public health department.

Fertilize with 8-2-12 palm fertilizer with micronutrients

Fertilize with 8-2-12 palm fertilizer with micronutrients at a

D. Composition and Quality: All fertilizer shall be uniform in

composition and dry. Granular fertilizer shall be free

or boxes shall be fully labeled with the manufacturer's

E. All fertilizer shall comply with the State of Florida

flowing and delivered in unopened bags. All bags containers

A. New and existing Trees and Palms:

per manufacturer's recommendations.

rate of ½ lb. per 1000 SF of area.

blend 14-14-14 or approved equal.

Annuals: Fertilize with Osmocote - Sierra

B. New and existing Shrubs, and Groundcover:

A. Mulch shall be:

(1) "Floramulch"

installed with a planting soil composed of sandy loam (50%

be taken from ground that has never been stripped, with a

slight acid reaction (55 to 65 ph) and without an excess of

sand, and 50% muck) typical of the locality. The soil must

calcium or carbonate. Soil shall be delivered in a loose

Potable, from municipal water supplies or other sources which

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 protect while stored at the site.
- (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.

- 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 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 material is delivered and installed on the project.
- 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

material indicating the sources or suppliers of these

C. Submit three prints of shop drawings for any special

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

A. Staking and guying shall be the responsibility of the

Landscape Contractors. Staking and guying shall not be

battens used in staking and guying shall not be attached t

eceive approval from the Landscape Architect prior to their

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

nances and code requirements from the appropriate local

attached directly to the plant material with nails. Also,

the plant material with nails. Any method of staking and

installation. Under no circumstances will approval be give

B. The Contractor is responsible for performing all staking and

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

according to local regulations, ordinances and code

discretion of the Contractor, provided it is not required

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

etting plant material if it blows, falls or leans ove

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

requirements. However, a Contractors decision not to stake

guying in accordance with all applicable regulations,

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

guying other than those indicated in the details, shall

requirement of staking or guying.

jurisdiction the project is located in.

A. Utilities (Above Ground and Underground):

have been indicated on the Plans.

Staking and Guying:

EXECUTION

nspection:

letter indicating the sources or suppliers of all sod and the

grade to be supplied for approval by the Landscape Architect

by the Landscape Architect before the material is delivered and installed on the project. sample and analysis of the mulch for approval by the Landscape

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

sample and analysis of all planting soil types for approva

- 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
 - prior to these "Acts of God".
- materials growth, or survival, that would affect the
- 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.) 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 with written, documented proof that the plant designation (B\$E JB4B, CG, etc.), type grade, quality, size, quantity, etc. of material is not available. The Landscape Architec installed. Do not deliver and install any material, which is n 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

However, no guarantee is implied that the Plans are

the Contractor to verify the location of all such

accurate or complete. It shall be the responsibility of

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

to maintain uninterrupted use of the facilities. A

other facilities which are disrupted due to his or her

prosecute repairs on a continuous "around the cloc

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

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

disconnect any type of utility whatsoever without first

writing and received by the Landscape Architect at least

72 hours prior to the time of the requested interruption.

conforms to surrounding grades and is at the proper elevation

obstruction, if the obstruction cannot be relocated.

(4) The Contractor shall not purposefully disrupt of

obtaining the written permission of the Landscap

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.

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

PAVEMENT AREA or as indicated otherwise on the plans

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

the TOP OF THE MULCH IS ! INCH BELOW THE TOP OF THE

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

A. Staking Plant Locations: Stake or mark plant material

ocations prior to plant hole excavation, based on

the final grading so the final level for planting areas

Contractor shall be norne by the Contractor and he or

additional outside services which may be necessary to

basis until services are restored. He or she shall also

provide and operate any supplemental temporary services

appropriate measures before performing any work tha

- A. The guarantee shall not begin until the day final written acceptance is given.
- B. All plant material, except sod,, trees and paims, shall be guaranteed for a minimum of I year from the time of final icceptance. 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 guarantee shall be null and void for plant material which amaged 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
- 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.
- A. The guaranteeing 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 in 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 that it must be replaced.

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 Owner and the Contractor. Any work performed on any changes or

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

replacement shall be at least equal to the originally

the originally specifies guarantee. This guarantee

(3) Final payment to the Contractor shall not relieve he or

A. On the Plans, figured dimensions shall govern over scaled

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

apparent errors or omissions in the Plans and Specifications

dimensions. If any error or discrepancy is found in the

Landscape Architect shall have the right to correct

A. The Contractor shall procure all necessary permits to

B. The Contractor is responsible for performing all work in

and/or Federal jurisdiction the project is located in.

accordance with all applicable regulations, ordinances and

code requirements from the appropriate city, county, state

additional work prior to the execution of a written agreement

and to make such interpretations as he or she may deem

necessary for the proper fulfillment of the intent of the

(2) Replacements shall be guaranteed for a period equal to

period shall begin at time of acceptable replacement.

smaller than the size originally specifies, the

she of the guarantee obligations.

Plan and Specification Interpretation

Plans and Specifications.

accomplish all of the work

"Job Site, "Project Site Etc.": The words "job site", "project site", "job", "project" and "site" shall be synonymous with one another when used in

may or may not be compensated for.

Safety On and Off the Job Site:

A. 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

B. Setting of Plants:

- 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 wit topsoil 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 around the roots the ball ties shall be cut and at the
- not be mixed or used in any way with the topsoil
- (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.
- handled by the ball only. Plant material too large for thoroughly protected from chain, rope, or cable marks Girdling, bark slippage, limb breakage and any oth damage that might occur by improper handling or
- (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
- root system.

- area at a rate of 25 pounds per 1,000 square feet.
- diameter from the top two inches of soil
- be at finished grade after rolling and tamping.



10% maximum of the root ball must be above grade 3" mulch ---existing grade-

Straight Trunk Palme

- (1) All plants shall be set at the proper level so that 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 clear thoroughly washed in during the planting operation.

tapped to grade. Subsoil removed from tree pit shall

- (4) Plant material of the shrub category and smaller must be
- (6) Container grown plant material shall be carefully removed from the container so as not to disturb the

- (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
- b. Remove stones and foreign matter over two inches in
- c. Grade the sod areas so that the top of the sod will

(2) Placing Sod:

Plant Material

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.

a. Place sod with staggered joints closely butted,

b. Water sod every day for a period of three weeks c. Fertilize sod three weeks after planting with 12 pounds

The Landscape Architect's on site observations or inspections

safety on or off the job site.

On Site Observations and Inspections

of rejection at the project site.

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

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

Architect's on site observations or inspections are nor

mplementation o the Plans and Specifications or take

the scope of work indicated in these Specifications.

A. Plant material shall be nursery grown except:

Where specified as collected material

from sources such as residences

intended to take charge, direct, run or manage the

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

charge, organize or manage the Contractor while performing

(2) Where approved by the Landscape Architect for such plant

plant material to remain or to be relocated shall be excluded

growth that is normal for that species and shall be sound,

nealthy, vigorous and free from insects, plant diseases and

material which is only available as a collected item

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

C. Habit of Growth: All plant material shall have a habit of

Specifications are being implemented properly. The Landscape

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 fina

Specifications are being implemented properly. The Landscape

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 of clearance from pest control officials of either State 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
- b. The Contractor shall completely maintain the sod until final acceptance by mowing or spraying as

D. Planting Beds:

- (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.
- (1) Areas to be mulched shall have existing weeds and
- vegetation removed, including root systems, before
- uneven. Fill in voids and holes with planting soil or other

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

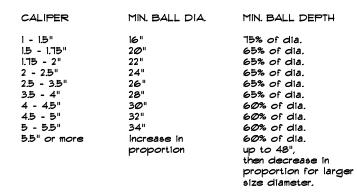
project: in the coconut creek

I. Removal of Plant Material:

(1) All plant material to be removed shall be removed 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 soil as directed by the Landscape Architect.

J. Existing Plant Material to be Relocated (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 rootball diameter and depth shall comply with requirements as set forth in the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants, Part I and Part 2", as



- (3) Root pruning shall be accomplished by digging a trench completely around the plant about 18 inches deep. All exposed roots shall be cut off smoothly.
- (4) \triangle mixture of good organic fertilizer and planting soil shall be used to refill the trench. (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 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 b the tightened wire netting formed by the hog wire, so as roots during handling.

- 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. Ar paved areas including curbs and sidewalks which have been strewn with soil, sod waste, fertilizer or other debris shall be thoroughly swept.
- B. Excess Fill: All excess fill which results from the installation of the project shall remain the property of the Owner and remain on the project at the option of the Owner. All excess fill which the Owner does not want shall be removed and disposed of from the project at no additional cost. No excess fill shall be removed or disposed of from the site until approved by the Owner or Landscape Architect. Excess fill shall be disposed of as directed.
- Protection: A. Responsibility for Protection and Restoration of Property: 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 providing 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

Completion and Final Acceptance:

- 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, discloses any work, in whole or in part, as being unsatisfactory, final acceptance shall not be given and the Owner and/or Landscape Architect will give the Contractor the necessary instructions or "punch lists". Upon correction of work, another inspection will be made which shall 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 on this final inspection.

- C. Completion of the work shall mean the full and exact compliance and conformity with the provisions expressed (mplied 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.
- writing by the Owner or their representative
- is a partial list of certain responsibilities. It is not a complete list, but only a summary of certain responsibilities.
- The Contractor is responsible for the entire project prior to written acceptance.

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 guy 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
- (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

- (5) Edge and mow sod once a week.
- 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
- Final acceptance shall not be official until acknowledged in The guarantee shall not begin until the day final acceptance
- Certain responsibilities prior to Final Acceptance: The following
- B. The Contractor is responsible for safety on and off the job
- (2) Plant maintenance shall include watering, mowing
- litter removal, and all other care needed for proper
- (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 material, the weeds shall be removed as directed by the Landscape Architect. If necessary, the plant material, mulch, sand and/or planting soil shall be replaced as needed to eliminate weeds or undesirable vegetation a the expense of the Contractor.

information from the plans.

Preparation:

- (6) Edge and weed all shrubs, groundcover and flower beds (7) Remove all litter once a week.
- (8) Spraying and Dusting: Contractor shall do all seasonal 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 show uniform growth and health, shall be resodded, repeatedly if necessary, until all sodded areas are covered with a satisfactory lawn. Damage resulting from erosion, gullies, washouts, or other causes shall be repaired by illing 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.
- (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 o

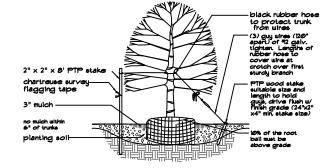
. Rating: The rating of plant material according to Florida Grades and Standards shall be equal to or better than called

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

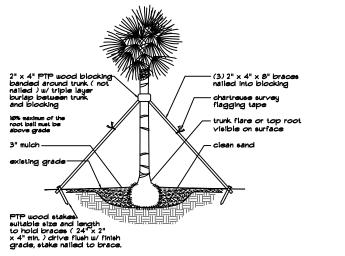
all landscape items from the time a landscape item is installed until final acceptance. Replacement: Replacement of plant material shall be the responsibility of the Contractor including the possible replacement of plant material resulting from removal by theft or vandalism or acts of negligence on the 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.

Groundcovers



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



(2) Grades are to be uniform. Grade areas which are rough and

GENERAL NOTES 1. ALL PLANTS TO BE FLORIDA NO. 1 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 AN AUTOMATIC, UNDERGROUND SPRINKLER SYSTEM EQUIPPED WITH A
- 4. QUANTITIES ON PLANT MATERIALS ARE FOR CONVENIENCE ONLY. LANDSCAPE 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 IST IN ALL CASES. SOD QUANTITY IS TO BE DETERMINED BY
- 5. CONTRACTOR 19 RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITITES TO AVOID DAMAGE. 6. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS TOOLS, EQUIPMENT, LABOR, AND PLANTS NECESSARY FOR THE PROPER
- PLANTING OF ALL TREES, SHRUBS GROUNDCOVERS, AND GRASS AS SHOUN ON LANDSCAPE ARCHITECT'S PLANTING PLANS. 1. ALL GROUNDCOVER BEDS TO ABUT PARKING, BUILDING, SIDEWALKS, ETC.. IN A PERPENDICULAR LINE.

8. ALL TREES AND PALMS TO BE STAKED AND GUYED.

CONSISTENT PATTERN.

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 EXCAVATION BEGINS. THE LANDSCAPE ARCHITECT MAY ADJUST THE

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

a. Rootball: Requirements for the measurement of

MIN. BALL DIA.

increase in

minimum rootball diameter and depth shall comply

with the Florida Department of Agriculture's "Grades

MIN. BALL DEPTH

65% of dia.

65% of dia.

65% of dia.

60% of dia.

60% of dia.

then decrease in

size diameter.

proportion for larger

up to 48",

and Standards for Nursery Plants, Part I and Part

b. Height: The height of plant material shall be measured from finish grade and continue up to where

branches, 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

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

necessary and the amount of water and frequency of

plant type, the time of year, amount of rainfall and

watering shall begin after the plant is planted and

continue until final acceptance. All trees and palms

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

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

means as a water truck or tank

any pruning and thinning.

other environmental conditions it is exposed to. This

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

required, without flooding areas beyond where water is

needed and/or over watering other landscape material.

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

loss 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

performing any major pruning and thinning. The Landscape Architect may elect to be present during

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

becomes prevalent to such an extent that they threaten

approved for use, then the Contractor shall be

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

shrubs, groundcover and sod may be watered by using the

to establish plants. Water shall be applied as

approximately 2 inches, or other depth as indicated

trees and palms in sod areas and any other areas as

otherwise, over all shrub and groundcover areas, around

coverage and deep water penetration to the full depth of

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

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

the main mass of the plant uniformly ends. The

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:

H. Weeding:

F. Waterino

height shall not include any singular or isolated

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

Architect. Therefore, any plant material with tendencies

(1) Trees, Shrubs, and Groundcover.

CALIPER

25 - 35"

5 - 55"

5.5" or more

- LOCATION OF SPECIFIED PLANT MATERIALS PRIOR TO PLANTING 13. 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 15 RESPONSIBLE FOR PLANT MAINTENANCE 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' ABOVE FINISHED GRADE.
- IS. 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 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 REMOVED TO PROVIDE LEVEL SURFACE WITH SURROUNDING AREA AND SOD OVER IF NEW PLANT BEDS ARE NOT TO BE INSTALLED. 19. ALL PLANTING BEDS THAT ARE ADJACENT TO PAVING ARE TO BE LOWER THAN THE ADJACENT PAVING, 50 THAT RUNOFF (MULCH, SOIL.) FROM THE BED DOES NOT RUN ONTO THE ADJACENT PAVING.

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landscape architecture/planning inc.

dave bodker

#LA0000999

sheet title: specifications

project number: 20. ALL PLANTING ISLANDS WITHIN THE PARKING LOT AREA MUST HAVE A MINIMUM 3' DEPTH OF SOLL EITHER FROM EXISTING SOLL PRESENT, IF OF GOOD QUALITY,
TO PROMOTE PLANT GROWTH, OR OF REPLACEMENT SOIL (50% MUCK, 50% SAND).
NO ROAD ROCK, SHELL ROCK, LIMESTONE, OR OTHER ROAD BASE MATERIAL date:
SHALL BE PRESENT WITHIN PLANTING ISLANDS. 3514 6-4-14 scale: N.T.S. drawn by: jae

sheet:

revisions:

- guying methods to be used if the ones indicated in these specifications and on the Plans are not to be implemented. The Landscape Architect will approve all shop drawings of
- staking and guying methods before they are implemented in the
- J. Submit in writing any hindrance to the owners routine maintenance or lack of, that may affect installed plant
- Submit and Certificate of inspection of plant material as may
- shall approve all substitutions before they are delivered and anticipated to be a substitute, before it has been submitted

walkway, structure, etc., shall have the plants along the perimeter spaced so that the plants can mature properly 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

planting bed (shrub or groundcover) next to another bed

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

- insure protection from drying winds and sun. All plants shall 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/or proper plant survival and growth and therefore removal of his material is part of the scope of work for the project The Contractor shall be responsible for insuring adequate drainage in these areas and shall remove this existing material, as required, by such means as auguring, drilling (ototilling. If necessary, excavate to a depth beyond the required excavation depth for the plant hole, in order to
- 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 a ecommended by the manufacturer. Exercise care to avoid any misuse of the chemicals which will cause detrimental residual conditions. Care shall also be used so that any final grades

insure proper vertical drainage necessary for plant survival

F. Excavation of Plant Holes: a. Excavation of plant holes shall be roughly culindrical in shape with the sides approximatel vertical. The Landscape Architect reserves the right to adjust the size and shape of the plant hole

which have been established are not altered.

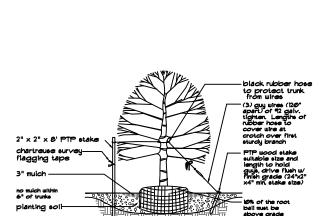
- and the location of the plant in the hole to compensate for unanticipated structures of unanticipated factors which are a conflic b. The excavated material from the plant holes shall not be used to backfill around the plant material. Such material shall be disposed of either on the project site or off the site, as directed by the
- Landscape Architect. 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 before

PLANTING DETAILS



excavation is begun. The Landscape Architect may adjust

the location of specifies plant materials prior to planting.



-finished grade

