

EXISTING TREE LIST

SYM	TREE TYPE	DESCRIPTION	STATUS
2	Sabal palm	18' ht.	remain
3	Sabal palm	20' ht.	remain
	Sabal palm	18' ht.	relocate
	Live oak	30' ht. x 40' spr., 18" cal.	remain
J	Live oak	50' ht. × 40' spr., 18" cal.	remain
(Mahogany tree	35' ht. x 30' epr.	remain
	Mahogany tree	35' ht. x 30' epr.	remain
A	Mahogany tree	35' ht. × 30' spr.	remain
B	Sabal palm	20' ht.	relocate
C	Sabal palm	18' ht. 18' ht.	relocate
D	Sabai palm Sabai palm	18' ht.	relocate
E	Sabal palm	16' ht.	relocate
7 <u>E</u>	Sabai palm	20' ht.	relocate
AG.	Sabal palm	20' ht.	relocate
AH	Live oak	40' ht. x 50' spr., 24" cal., co-dominant trunk, nice	remain
NI.	Live oak	45' ht. x 50' spr., 24" cal.	remair
Ü	Live oak	20' ht. x 30' spr., 14" cal.	relocate
K	Sabal palm	18' ht., 10" cal.	relocate
7T	Sabal palm	20' ht., 10" cal.	relocate
M	Sabal palm	24' ht., 10" cal.	relocate
N	Sabal palm	14' ht., 10" cal.	relocate
0	Sabal palm	18' ht., 8" cal.	relocate
45	Sabal palm	25' ht., 8" cal.	relocate
17	Live oak	35' ht. x 40' spr.	remain
u	Coconut palm	40' ht.	remain
Y	Coconut palm	45' ht.	remain
W	Double Foxtail palm	18' ht., double trunks	relocate
×	Sabal palm	16' ht., 14" cal.	relocate
AY	Sabal palm	16' ht., 14" cal.	relocate
Z	Sabal palm	16' ht., 14" cal., booted	relocate
34	Sabal palm	16' ht., 14" cal., booted	relocate
38	Sabal palm	16' ht., 14" cal., booted	relocate
BC BD	Double Foxtail palm	20' ht., double trunks	relocate
3E	Sabal palm	16' ht., 12" cal., booted	relocate
) 注	Sabai palm Sabai palm	16' ht., 10" cal, booted	relocate
3G	Sabai paim	16' ht., 12" cal., booted 20' ht.	relocate
3H	Sabal palm	18' ht.	remain

^{*} TO BE RELOCATED BY OWNER. LOCATIONS TO BE DETERMINED BY THE CITY OF COCONUT CREEK

LEGEND

(+) EXISTING TREES TO REMAIN

EXISTING TREES TO BE RELOCATED BY OWNER PRIOR TO CONSTRUCTION.

(NEW LOCATION OF RELOCATED TREES. VERIFY WITH OWNER PRIOR TO PLANTING.

(•) PROPOSED PALMS

(+) PROPOSED TREES

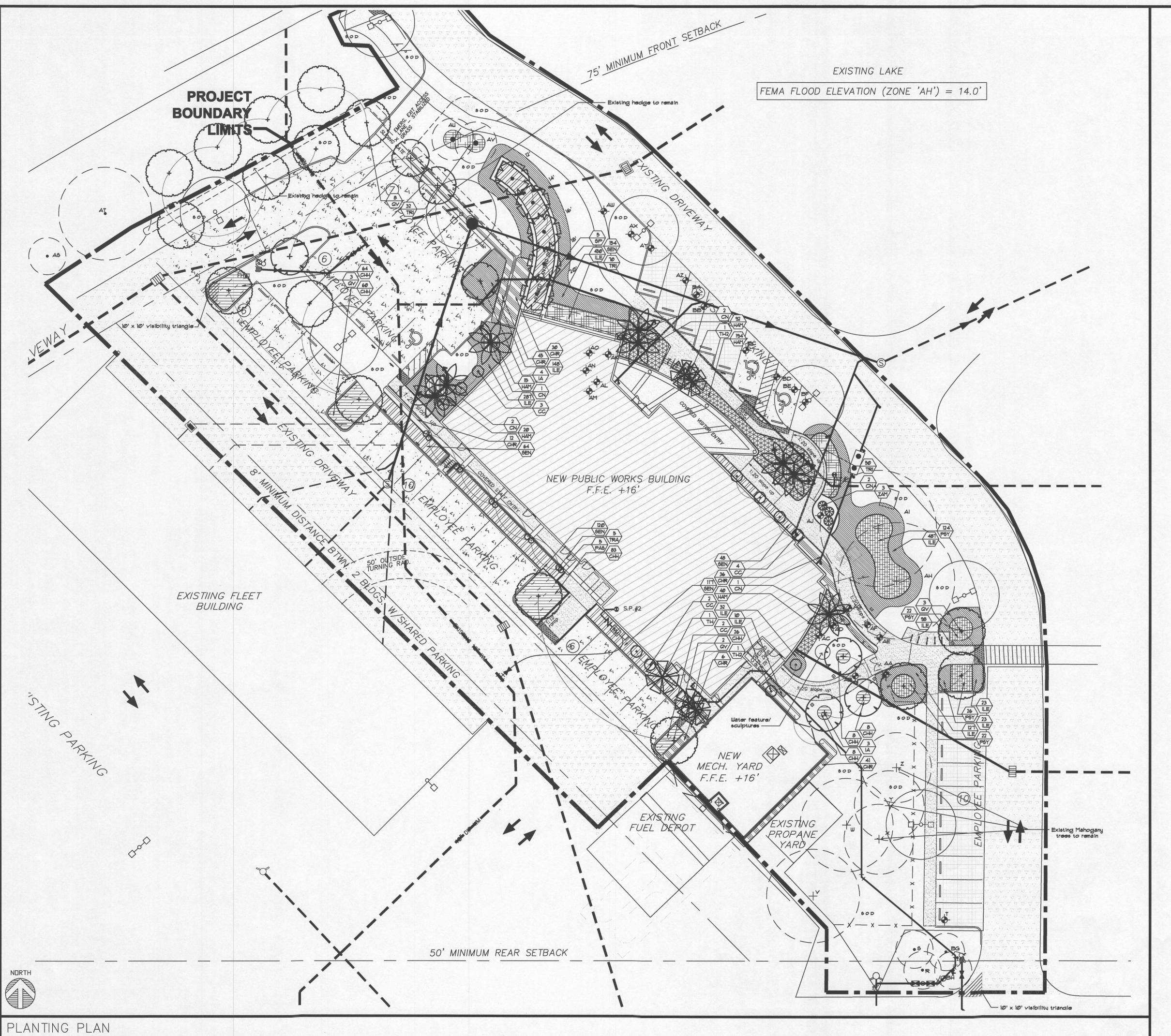
landscape architecture/planning inc.

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

DRAWN BY: JAE CHECKED BY: DJB DATE: 8-11-11
REVISIONS:

EXISTING TREE PLAN

^{**} EXISTING TREE 'AJ' IS TO BE ROOT PRUNED AND RELOCATED BY THE CITY OF COCONUT CREEK



SCALE: |" = 20'-0"

PLANT LIST

SYM CC	BOTANICAL/COMMON NAME Capparis cynophallophora Jamaica Caper	SPECIFICATIONS 5' ht. x 3' spr.
CN	Cocos nucifera Malayan Coconut Palm	30' oa. ht., leaning as directed by Land. Arch & City
IA	llex attenuata East Palatka Holly	12' ht. x 5' spr., 2" dbh
QY	Quercus virginiana Live Oak	12' ht. x 5' epr., 2" dbh
SP	Sabal palmetto Sabal Palm	oa. hts. as noted on plans
TH	Thrinax radiata Thrinax Palm	8' oa. ht.
TH2	Thrinax radiata Double Thrinax Palm	8' oa. ht., double trunk
CHH	Chrysobalanus icaco "horizontal" Horizontal Cocoplum	16" ht. x 16" spr., 24" o.c.
CHR	Chrysobalanus Icaco Cocopium Hedge	24" ht. × 18" spr., 24" o.c.
HAM	Hamelia patens 'compacta' Dwarf Firebush	16" ht. x 16" spr., 24" o.c.
ILE	llex vomitoria Dwarf Yaupon	10" ht. x 10" spr., 18" o.c.
PAS	Passiflora incarnata Purple Passion Flower Vine	6' ht. runners
PSY	Psychotria nervosa Wild Coffee	24" ht. × 18" spr., 24" o.c.
SEN	Senna chapmanii Bahama Cassia	16" ht. x 16" spr., 24" o.c.
TRA	Trachelospermum jasminoides Confederate Jasmine	10' ht. runners
TRI	Tripeacum floridanum Dwarf Fakahatchee	18" ht. × 18" spr., 24" o.c.
ZAM	Zamia pumila Coontie	3' ht. x 3' epr.
SOD	Stenotaphrum secundatum St. Augustine Floratam	full, fresh sod as re

CODE COMPLIANCE

12. INTERIOR LANDSCAPE REQUIREMENTS FOR VII.A.'s
1 tree / 10 spaces
53 / 10 = 6 trees require

53 / 10 = 6 trees required
6 trees provided
DIVIDER MEDIANS
1 tree / 40'
80' / 40 = 2 trees required
2 trees provided

13. STREET TREES 1 tree / 40' 150' / 40 =

150' / 40 = 4 trees required 4 trees provided

e. LANDSCAPING BETWEEN A COMMERICAL OR INDUSTRIAL BLDG & PARKING OR VUA AREA

1 tree / 40' , 421' / 40 = 11 trees required 12 trees provided

12 trees provided
T trees exist
I tree relocated

220 shrubs required

20 shrubs / 40' = 220 shrubs required in excess of 225 shrubs provided 30 groundcover / 40' = 330 groundcover required in excess of 400 groundcover provided

g. LANDSCAPING BETWEEN RO.W. & V.U.A.'s

1 tree / 40 = 4 trees required
4 trees provided

4 trees provided hedge required hedge exists

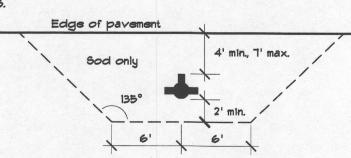
TOTAL TREES REQUIRED = 27

TOTAL TREES PROVIDED = 28

TOTAL TREES EXIST = 7

TOTAL TREES RELOCATED = 1

FIRE HYDRANT CLEAR ZONE SCALE: N.T.S.



Requirements apply to fire hydrants, slamese connections and any other fire equipment for utilizing fire hose on public or private property.

The diagram shall appear on all landscape plans prior to approval.

The clear zone shall be free of landscape (except sod), mailboxes, parking, lamp-posts and all other objects (exceptions: other fire fighting equipment, or traffic posts to protect fire fighting equipment).

LEGEND

(+) EXISTING TREES TO REMAIN

EXISTING TREES TO BE RELOCATED BY OWNER PRIOR TO CONSTRUCTION.

NEW LOCATION OF RELOCATED TREES. VERIFY WITH OWNER PRIOR TO PLANTING.

PROPOSED PALMS

PROPOSED TREES

dave bodker landscape architecture/planning inc.

601 n. congress ave.. suite 105-a delray beach. florida 33445 561-276-6311 #LAOOOO999

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job# 10710

IG • DESIGN

"WALTERS, AIA - FL AR 8

" ZACKRIA, CSI - FL AR 9

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SOI RUBERT S. WALTERS, A ABBAS H. ZACKRIA, CS
THE STATE OF FLURIDA. WRITTEN DIMENSIONS
S. ZACKRIA ASSIGNATES, PLICS, AND SHALL NUT IN THE TIPE IN THE TIPE IN THE TIPE THE TIP

FAX: (954) 522-4128

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UBLIC WORKS BUILDING ST COPANS ROAD, COCONUT CREEK, FLORIDA

DRAWN BY: JAE
CHECKED BY: DJB
DATE: 8-11-11

REVISIONS:

1003 SHEET

|-2|

PLANTING PLAN

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 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.
- . 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 ocations 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 payment The final amount of payment may or may not be the total sum of the contract depending on the number of unite installed.
- F. Ten percent (10%) of the total contract price will be held as retainer for 30 days after final written acceptance.
- G. The Landscape Contractor will coordinate his work with all other trades at the job site.
- (2) Paim 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 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, Paim 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. . Chiorosis: The allowable level of Chiorosis 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.
- 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 Inc. The sod shall be well matted with roots and of firm tough texture having a compact top growth and heavy roo development. Sod shall be free of objectionable grassy and proad 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 adversely affect its survival. Sod shall be relatively free of thatch, up to one half inch allowable (uncompress 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 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.

Quality Assurance

- A. The Landscape Architect may inspect trees, shrubs, and groundcover either at the place of growth or at the site before blanting 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 sustem, insects, injuries, and latent defects, and try to reject unsatisfactory or efective material at any time during the progress of work 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 interpretat 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 9 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 mest certain specification requirements will be rejected.
- (3) Plant material shall have normal, well developed branches and shall be vigorous plants, free from defects, decay, burns disfiguring roots, sun-scald pest eggs, barers, and all forms of infestations or objectionable disfigurements.

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

are approved by a public health department.

Fertilize with 8-2-12 palm fertilizer with micronutrient

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

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 1/2 lb. per 1000 SF of area.

C. Annuale: Fertilize with Osmocote - Sierra

blend 14-14-14 or approved equal.

3. New and existing Shrubs, and Groundcover:

A. Mulch shall be:

(I) Floramulch

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

calcium or carbonate. Soil shall be delivered in a loose

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

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

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.
- 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 o 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 unavallable. B. Any request for the approval of an equal shall be in writing.

roval 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 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 schedule of all specimen plant material and collected plant 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 aids 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.

Landscape Contractors. Staking and guying shall not be

battens used in staking and guying shall not be attached to the plant material with nails. Any method of staking and

installation. Under no circumstances will approval be given

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

requirements. However, a Contractors decision not to stake

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

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

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

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

(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

A. Utilities (Above Ground and Underground):

have been indicated on the Plans.

guying in accordance with all applicable regulations.

guying other than those indicated in the details, shall receive approval from the Landscape Architect prior to their

to allow the plunging, burying, or planting of trees or palms so that the top of the grade, in order to eliminate the need or

ordinances and code requirements from the appropriate local

attached directly to the plant material with nails. Also,

Staking and Guying:

EXECUTION

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 and installed on the project.

- sample and analysis of the mulch for approval by the Landscape 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 guying methods to be used if the ones indicated in these specifications 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
- J. Submit in writing any hindrance to the owners routine naintenance or lack of, that may affect installed plant materials growth, or survival, that would affect the quarantee of plant material.
- K Submit in writing any hindrance to the timely completion of the installation Submit and Certificate of inspection of plant material as may
- oe required by, State , local or Federal Authorities. Substitutions: 4. When the specifies plant designation (B4B, WB4B, CG etc.),
- ype, 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 uritien, documented proof that the plant designation (B4B, WB4B, 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 amount because of an approved substitute, shall be established in uriting 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 he

additional outside services which may be necessary

prosecute repairs on a continuous "around the clock

costs involved in the repairs and restoring disrupted

service resulting from negligence on the part of the

Contractor shall be norne by the Contractor and he or

to maintain uninterrupted use of the facilities. All

she shall be fully responsible for any and all claims

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

(4) The Contractor shall not purposefully disrupt or

interfere with the work, the Landscape Architect shall

be consulted immediately in order for a decision to be

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

disconnect any type of utility whatsoever without first

riting 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

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.

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

PAYEMENT AREA or as 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

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

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

and methods shall be in accordance with the highest

the County Agent, and approved by the Landscape

complete control of pests and diseases. The materials

standard horticultural practices and as recommended by

aullies, washouts, or other causes shall be repaired by

filling with topsoil, tamping, refertilizing, and resodding by the Contractor at his or her expense.

planting areas or adjacent to plants without proper

safeguards and protection.

information from the plane.

locations prior to plant hole excavation, based on

the final grading so the final level for planting areas

resulting from the damage.

basis until services are restored. He or she shall also

provide and operate any supplemental temporary services

the Contractor to verify the location of all such

accurate or complete. It shall be the responsibility o

appropriate measures before performing any work that

- A. The guarantee shall not begin until the day final written acceptance is given.
- B. All plant material, except ead, trees and palms, shall be quaranteed for a minimum of I year from the time of final acceptance. All sod shall be guaranteed for a minimum of 60 days from the time of final acceptance. All trees and paims are to be guaranteed for one year from the time of final
- 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 hall, 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.
- Replacement:

below the minimum quality indicted in the

- 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
- (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
- C. Size, Quality, and Grade:

Landscape Architect.

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 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 4 Shrube: The location of a 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
- without growing into the other bed, walkway, structure, etc C. The rootballs of B4B plants which cannot be planted immediately shall be covered with moist soil or mulch to 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 this 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 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 survival
- 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 recommended 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 which have been established are not altered.
- F. Excavation of Plant Holes:

(1) General:

- a. Excavation of plant holes shall be roughly cylindrical in shape with the sides approximatel 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 compensate for unanticipated structures or 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 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 excavation is begun. The Landscape Architect may adjust the location of specifies plant materials prior to planting

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 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 In 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 Specification and to make such interpretations as he or she may deem necessary for the proper fulfillment of the intent of the Plans and Specifications.

Permits and Codes:

specifies size.

- A. The Contractor shall procure all necessary permits to iccomplish 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 Owner 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 these documents.

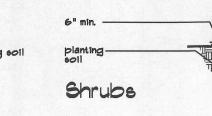
Safety On and Off the Job Site:

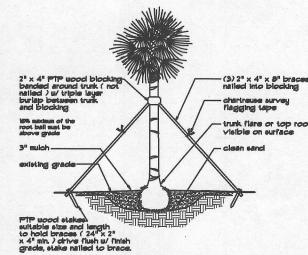
A. In performing the scope of work, all safety on of off the job site shall be the sole responsibility of the Contractor. The Landscape Architect shall not be responsible for safety on or off the job site.

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 bits with water. The plant hole shall be backfilled with 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 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 pocket 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 shall 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 paim 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. Girdling, bark slippage, limb breakage and any other damage that might occur by improper handling or negligence.
- (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.

- (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

- 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 safety on or off the job site.
- On Site Observations and Inspections:
- A. The Contractor shall make requests for on site observation 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 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 intended to take charge, direct, run or manage the charge, organize or manage the Contractor while performing the scope of work indicated in these Specifications.

Plant Material

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

(2) Placing Sod:

from this requirement.

- 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. s. 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 certifica

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 bounds per 1,000 square feet uniformly over the groundcover area.
- (3) Rotor mix, or by other approved method, to a depth of twelve inches. (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.

D. Measurement of Trees, Palms, Shrubs, and Groundcover: (1) Trees, Shrubs, and Groundcover

2" as follows:

1 - 15"

15 - 175"

25 - 35

5 - 55"

55" or more

- a. Rootball: Requirements for the measurement of minimum rootball diameter and depth shall comply with the Florida Department of Agriculture's "Grade and Standards for Nursery Plants, Part 1 and Part
 - MIN. BALL DIA. MIN. BALL DEPTH 65% of dia. 65% of dia 65% of dia 65% of dia 65% of dia 60% of dia 60% of dia 60% of dia Increase is 60% of dia up to 48". proportion then decrease in proportion for large
- 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 parts of the plant, such as leaves, shoots, branches, limbs or fronds, which extend out beyond the main mass of the plant.
- E. Dis-Back and Leaf Drop: plant material showing signs of disback of leaf-drop will not be accepted and must be removed from the project immediately if so directed by the Landscape Architect. Therefore, any plant material with tendencies toward leaf-drop or dis-back must be root pruned early enough to provide a sound network of hair roots prior to relocation
- 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

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

G. Spanish Moss: If Spanish Moss (Tillandsia usneoides) exists on plant material, it shall be completely removed prior to planting on the project

H. Palms:

to facilitate transporting and handling.

(3) The mulch shall be uniformly applied to a depth of approximately 2 inches, or other depth as indicated otherwise, over all shrub and groundcover areas, around trees and palms in sod areas and any other areas as indicated on the plans.

- (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 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 continue until final acceptance. All trees and palms shall be watered, only during this period, Do not rely on the irrigation system, if there is one, to achieve this task it cannot deliver the volume of water 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 during this period.
- (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 means as a water truck or tank
- G. Pruning and Thinning: (1) The amount of general pruning and thinning shall be 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 performing any major pruning and thinning. The andscape Architect may elect to be present during

any pruning and thinning.

final acceptance.

(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 andscape Architect. This condition shall apply until

GENERAL NOTES

- 1. ALL PLANTS TO BE FLORIDA NO. I OR BETTER
- APPROVAL BY THE LANDSCAPE ARCHITECT. . ALL LANDSCAPED AREAS TO RECEIVE 150% IRRIGATION COVERAGE B
- 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 18T IN ALL CASES. SOD QUANTITY IS TO BE DETERMINED BY
- 5. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND
- 6. CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL MATERIALS, TOOLS, EQUIPMENT, LABOR, AND PLANTS NECESSARY FOR THE PROFER SHOWN ON LANDSCAPE ARCHITECT'S PLANTING PLANS.
- ETC., IN A PERPENDICULAR LINE.
- SHALL OBTAIN APPROVAL FROM THE LANDSCAPE ARCHITECT BEFORE EXCAVATION BEGINS. THE LANDSCAPE ARCHITECT MAY ADJUST THE
- ARCHITECT. CONTRACTOR IS RESPONSIBLE FOR PLANT MAINTENANCE UNTIL THE TIME OF WRITTEN ACCEPTANCE. 14. LANDSCAPING IN SAFE DISTANCE TRIANGLES SHALL BE MAINTANED TO
- 15. ALL PROHIBITED PLANT SPECIES (AS IDENTIFIED BY THE CITY. DUNTY, STATE) SHALL BE ERADICATED FROM THE SITE. THIS INCLUDES BUT IS NOT LIMITED TO MELALEUCA, BRAZILIAN PEPPER
- 11. 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.
- 19. ALL PLANTING BEDS THAT ARE ADJACENT TO PAYING ARE TO BE LOWER THAN THE ADJACENT PAYING, SO THAT RUNOFF (MULCH, SO) FROM THE BED DOES NOT RUN ONTO THE ADJACENT PAYING. 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 FROMOTE PLANT GROWTH, OR OF REPLACEMENT SOIL (50% MUCK, 50% SAND). NO ROAD ROCK, SHELL ROCK, LIMESTONE, OR OTHER ROAD BASE MATERIAL SHALL BE PRESENT WITHIN PLANTING ISLANDS.

1003 SHEET

DRAWN BY: JAE

CHECKED BY: DJB

DATE: 8-11-11

REVISIONS:

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dave bodker

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ssociates

ckria

delray beach, florida 33445

NOTES & DETAILS

. Removal of Plant Material:

J. Existing Plant Material to be Relocated:

- (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.
- 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

root pruned a minimum of 4 weeks or for a period as

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

MIN. BALL DIA. MIN. BALL DEPTH 75% of dia. 65% of dia. 65% of dia. 25 - 35" 65% of dia 60% of dia. 50% of dia. 5 - 55" 55" or more Increase in 60% of dia. up to 48". proportion then decrease

size diameter.

(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) A 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 shall be used and it shall be placed around the rootba 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 a to prevent disturbance of the loose soil around the

- 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. An paved areas including curbs and sidewalks which have been
- 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.

- to person or property.
- Completion and Final Acceptance: L 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 b 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 "bunch lists". Upon correction of work, another inspection will be made which shall

- strewn with soil, sod waste, fertilizer or other debris shall be thoroughly swept.
- . Responsibility for Protection and Restoration of Propert The Contractor shall be responsible for all damage or injury

- 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

- 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

B. Protection Against Mechanical Damage: The Contractor's

- becomes damaged as a result of any negligence of the Contractor or his or her employees in complying with these

- C. Completion of the work shall mean the full and exact compliance and conformity with the provisions expressed aplied in the Plans and Specifications including any and all "punch lists" which may be issued outlining certain items of work which were found uneatlefactory or required completion or
 - and found to be completed in accordance with contract Plans E. Final acceptance shall not be official until acknowledged in
 - F. The guarantee shall not begin until the day final acceptance
 - A. The Contractor is responsible for the entire project prior to written acceptance.

complete list, but only a summary of certain responsibilities.

edging, pruning, weeding, cultivating, repair o

erosion, mulching, tightening and repairing of guys,

established, resetting plants to proper grades or

plants, replacement of sod areas which do not become

stakes, braces, etc., replacement of sick or dead

- C. Maintenance Prior to Final Acceptance (1) Maintenance shall begin immediately after each plant is planted and continue until final acceptance. (2) Plant maintenance shall include watering, mowin
- upright position, maintenance of the watering sauce litter removal, and all other care needed for proper 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 undestrable 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 at the expense of the Contractor.

- (5) Edge and mow sod once a week (6) Edge and weed all shrubs, groundcover and flower beds
- D. Final acceptance shall not be given until all construction provided for and contemplated by the contract is inspected
- rchitect, prior to implementation. writing by the Owner or their representative. (9) Sod: After the sod has been laid, tamped and top dressed, all areas and parts of area which fail to show miform growth and health, shall be resodded, repeatedly Certain responsibilities prior to Final Acceptance: The following if necessary, until all sodded areas are covered with a is a partial list of certain responsibilities. It is not a satisfactory lawn. Damage resulting from erosion,
- (10) Protection: Plant material shall be protected against B. The Contractor is responsible for safety on and off the job trespassing and damage. If any plants become damaged or 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
 - (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

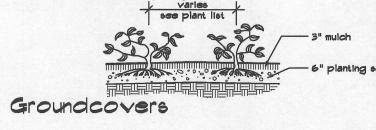
Rating: The rating of plant material according to Florida Grades and Standards shall be equal to or better than called

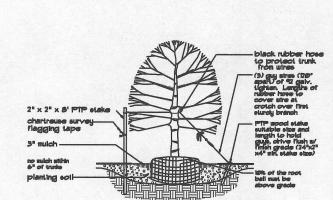
for on the Plans and in these Specifications at the time of

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

all landscape items from the time a landscape item is

PLANTING DETAILS





Trees

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

- 2. NO SUBSTITUTIONS WILL BE ACCEPTED WITHOUT PRIOR WRITTEN
 - CONTRACTOR PRIOR TO BIDDING
 - 1. ALL GROUNDCOVER BEDS TO ABUT PARKING, BUILDING, SIDEWALKS,
 - S. ALL TREES AND PALMS TO BE STAKED AND GUYED 9. ALL PLANTED AREAS ARE TO BE MULCHED WITH "FLORAMULCH", TO A DEPTH OF 3". 10. ALL PLANT MATERIAL TO BE BACKFILLED WITH 50% CLEAN MUCK AND 50% SAND AND BE FERTILE, AND FRIABLE. 11. 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 AN AUTOMATIC, UNDERGROUND SPRINKLER SYSTEM EQUIPPED WITH A 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 CUNER OR LANDSCAPE

> PROVIDE UNOBSTRUCTED VISIBILITY AT A LEVEL BETWEEN 2' AND 8' ABOVE FINISHED GRADE.

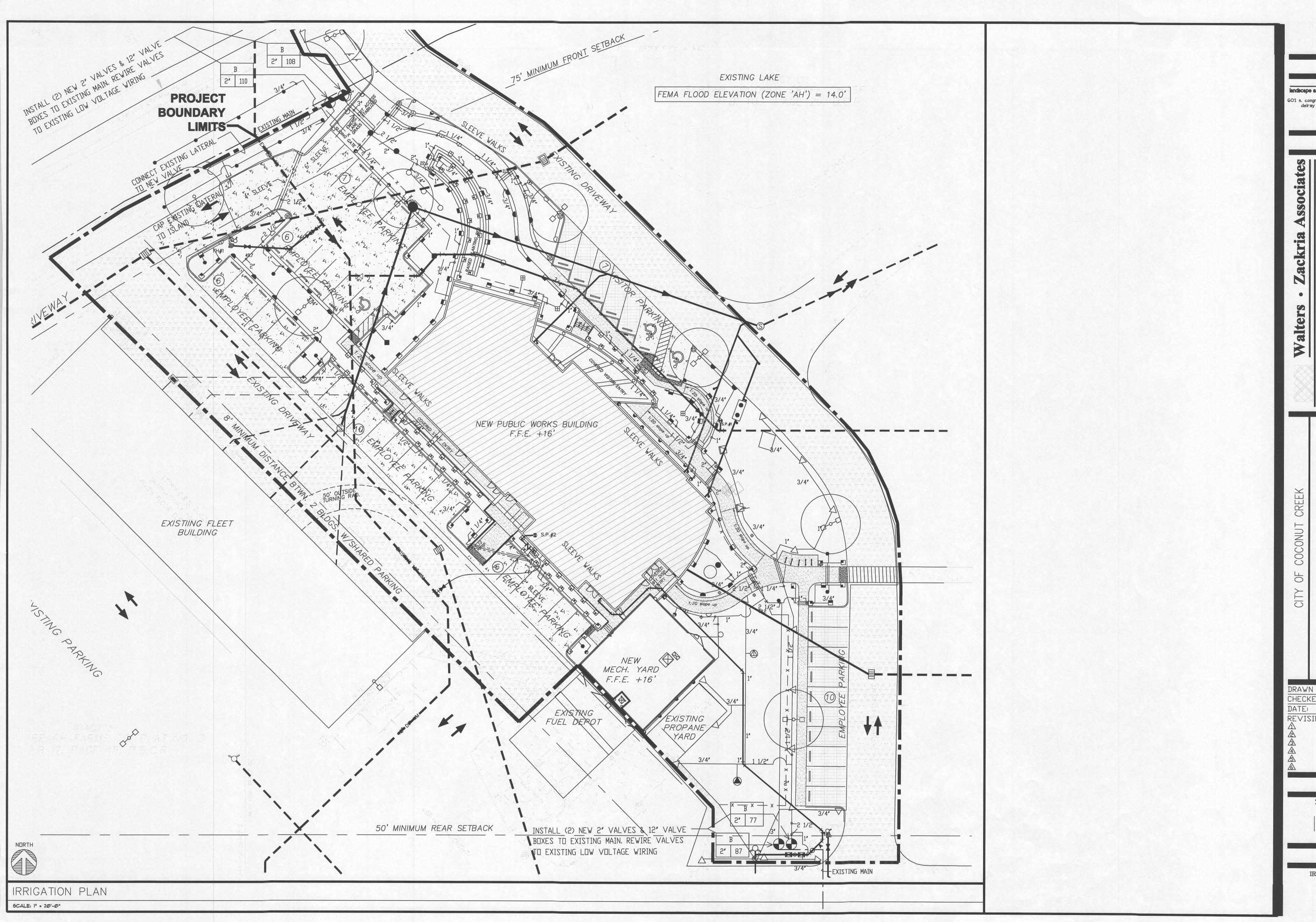
18. FILL HOLES WHERE EXISTING TREES OR PLANT MATERIAL HAVE BEEN REMOVED TO PROVIDE LEVEL SURFACE WITH SURROUNDING AREA AND SOD OVER IF NEW PLANT BEDS ARE NOT TO BE INSTALLED.

SPECIFICATIONS

SCALE: N.T.S.

roots during handling.

SPECIFICATIONS, NOTES & DETAILS



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DRAWN BY: RJH CHECKED BY: RJH DATE: 8-11-11 REVISIONS:

IRRIGATION PLAN

NOTES:

1. PIPING: MAIN LINES: EXISTING PVC

ZONE LINES: PVC, 1/2" IS NOT USED, 3/4" & 1" = SDR 21, CLASS 200

1 1/4" & LARGER = SDR 26, CLASS 160 DR GREATER

SLEEVES: SCH. 40 PVC

FITTINGS: ZONE LINES: SCH. 40 PVC

FABRICATION: SQUARE CUT, CLEAN AND PRIME ALL JOINTS. USE GREY PVC CEMENT AND PURPLE PRIMER.

FULLY ENGAGE ALL JOINTS. ALL FABRICATION SHALL BE TO MANUFACTURERS SPECS.

ALLOW ALL MAIN LINES TO CURE FOR 24 HOURS BEFORE PRESSURING. ALL PIPE, FITTINGS, AND SOLVENTS TO CONFORM TO LATEST ASTM SPECS...

2. DEPTH OF LINES: SLEEVING UNDER PAVEMENT = 24" DEEP, MIN...

ZONE LINES = 12" DEEP MIN. FOR 1 1/2" & SMALLER AND 15" DEEP FOR 2" & GREATER

EXISTING LOW VOLTAGE WIRING TO BE RECONNECTED USING DBY OR EQUAL TYPE CONNECTORS. 3. CONTROL WIRES:

4. BACKFILL ALL TRENCHES FREE OF DEBRIS, COMPACT TO ORIGINAL DENSITY, FLUSH ALL LINES, USE SCREENS IN ALL HEADS, ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS, PAVING, ETC...

5. ALL DETAILS ARE GRAPHICALLY SHOWN ONLY, ALL QUANTITIES SHALL BE VERIFIED BY CONTRACTOR PRIOR TO INSTALLATION. THIS SHALL BE THE CONTRACTORS RESPONSIBILITY TO ASSURE COMPLETE OVERLAPPING COVERAGE. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER AND LANDSCAPE ARCHITECT BEFORE PROCEEDING, CODES AND LOCAL REGULATIONS SHALL TAKE PRESIDENCE OVER THESE PLANS, THE LANDSCAPE ARCHITECT/DESIGNER RESERVES THE RIGHT TO MAKE MINOR FIELD CHANGES, THE CONTRACTOR MAY FIELD ADJUST SPRAY NOZZLE SELECTION TO PROVIDE PROPER COVERAGE.

6. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF WORK.

FLOOD BUBBLER

SECURE BUBBLER AT BASE OF TREE -

USING NETAFIM STAKE #TLS6

HARDIE BLUE STRIPE THICK -

WALLED POLY PIPE

RAINBIRD #1404 DN SWING

TREE OR PALM

BUBBLER TO BE FLUSH WITH GRADE. POLY PIPE TO BE

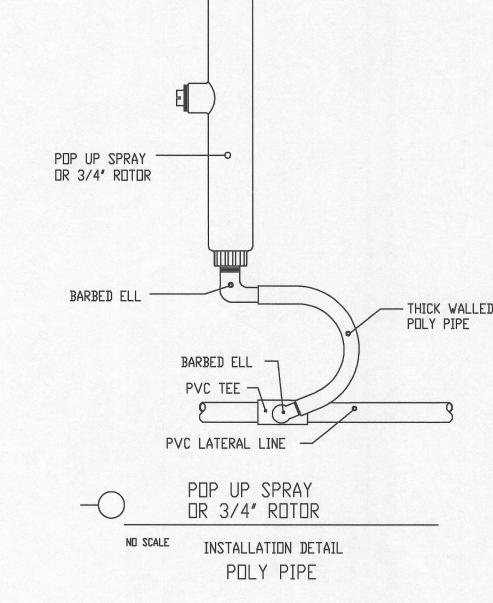
BELOW MULCH OR COVER

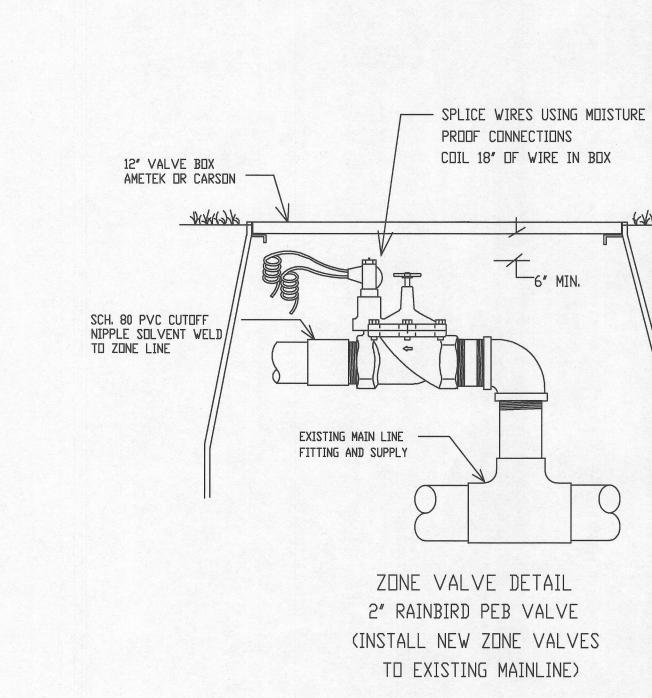
TREE FLOOD BUBBLER

QUANTITY OF BUBBLERS AS NOTED

AS NOTED

PIPE BARBED FITTING





FINISH GRADE -> WARRANGE TIME II III - THICK WALLED

MATERIAL LEGEND

MAINLINE: EXISTING PVC MAIN W/ LOW VOLTAGE WIRE

SLEEVES: SCH. 40 PVC PER PLAN ALL SLEEVES UNDER WALKS A MIN. 2 PIPE SIZES LARGER THAN CARRIER PIPE. WIRE SLEEVES = 2"

SPRINKLER LEGEND

TYPE

RAINBIRD 3/4" PDP UP ROTOR

RAINBIRD 4" POP UP SPRAY

.

.

.

RAINBIRD 12" POP UP SPRAY

.

.

.

NOTE: USE SCREENS IN ALL HEADS, CONTRACTOR TO VERIFY

AND IS RESPONSIBLE FOR COMPLETE COVERAGE

RAINBIRD FLOOD BUBBLER

QUANTITY

134

MODEL #

#5006-PC-3.0

#5006-FC-6.0

#5012-PC-3.0

#5006-FC-3.0LA

#5006-NDZZLE BELDW

#1806 - NDZZLE BELOW

√ -15'VAN

• −15′F

• −15′H

• −15′Q

″ −12′F

√ -12'H

• −12′Q

″ −10′H

• −10′T

√ −10′Q

• - 8'H

" - 8'Q

- 4'SST

- 4'EST

√ -12'VAN

• −12′F

• −12′H

• −12′T

-12′Q

″ −10′F

✓ -10′H

" - 8'H

" - 8'Q

- 4'SST

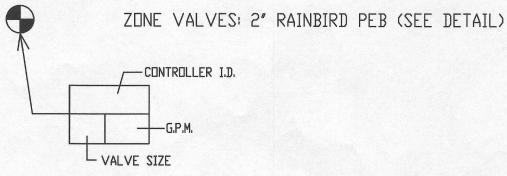
- 4'EST

#1404

#1812 - NOZZLE BELOW

✓ -10'VAN

✓ -12'VAN



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#LA0000999 job# 10710

DRAWN BY: RJH CHECKED BY: RJH DATE: 8-11-11 REVISIONS:

SHEET

IRRIGATION DETAILS

IRRIGATION DETAILS