

I LAN	IT SCHEDULE					
TREES	BOTANICAL / COMMON NAME	CONT	CAL		QTY	REMARKS
IC	Ilex cassine / Dahoon Holly	45-Gallon			4	Min. 8`-10` ht. x 3`-4 sprd., 2" DBH
IOE	llex opaca `Eagleston` / Eagleston Holly	65-Gal.	2.5" DBH		28	Mln. 11` - 13` ht. x 3`-4` sprd., 3` CT, 2.5" DBH
QV	Quercus virginiana / Southern Live Oak	_	5"-Cal.		19	Min. 17` - 20` ht. x 8`-10` sprd.
SP15	Sabal palmetto / Cabbage Palmetto	15` CT			7	Shaved trunk, regen.
		1			•	
SHRUBS	BOTANICAL / COMMON NAME	CONT		SPACING	QTY	
VOW	Viburnum obovatum 'Withlacooche' / Withlacooche Walter's Viburnum	7-Gallon		48" o.c.	76	Min. 36" ht. x 24" sprd.

GENERAL NOTES:

1. ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER.

- ALL SUBSTITUTIONS SHALL BE APPROVED BY THE OWNER OR THE LANDSCAPE ARCHITECT.
- 2. MULCH ALL BEDS WITH MIN. 3" SHREDDED CYPRESS MULCH. PULL AWAY FROM SHRUB & TREE STEMS.
- 4. WHERE NUMBERS ON PLANTING PLAN AND PLANT SCHEDULE DIFFER, THE PLANTING PLAN SHALL TAKE PRECEDENCE.
 5. WHERE SIZES INDICATED DO NOT MATCH CONTAINER SIZE, THE LARGER OF THE TWO SPECIFICATIONS SHALL BE USED.
- WHERE SIZES INDICATED DO NOT MATCH CONTAINER SIZE, THE LARGER OF THE TWO SPECIFICATIONS SHALL BE USED
 SOD ALL DISTURBED AREAS ON THE PROJECT SITE NOT OTHERWISE LANDSCAPED WITH ARGENTINE BAHIA SOD.
- 7. INSTALL ROOT BARRIER PER DETAIL AT RIGHT FOR ALL TREES INDICATED WITH SHADED DOT TO INDICATE 5' OR LESS SEPARATION FROM R.O.W. OR UTILITIES.
- 8. ALL NEW LANDSCAPING WILL BE PROVIDED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM SUPPLIED BY A DEDICATED IRRIGATION METER.
- STREET TREES SHALL BE PLANTED AT THE TIME THE LOT ON WHICH THEY ARE PLACED ARE DEVELOPED.

GENERAL NOTES

- It is expected that appropriate substitutions of plant material with the intent to improve the quality and appearance of the project relative to the availability of material and freeze considerations meet with the approval of the Landscape Architect.
- 2. All sod areas shall be verified on plan and on site.
- It is the responsibility of the Landscape Contractor to follow all guidelines set forth from the Landscape Specifications when provided. All plant materials shall be Florida #1 or better (Florida Fancy) as described in "Grades and Standards for Nursery Plants".
- All specimen trees must meet the specifications provided in the plant schedule and plans. Any substitutions for Specimen Trees must meet with the approval of the Landscape Architect.
- Contact the Landscape Architect for any major site changes which alter landscape beds or berming areas.

EARTHWORK

- 1. All site work for rough grading of berms, planters, and planting areas is to be provided by the General Contractor, unless otherwise specified by these plans. Fill for all berms and planters shall be of a suitable, sandy gradation which is porous and percolates well, to insure proper water runoff and drainage. Absolutely no plastic, clayey soil may be used in any planting area.
- 2. The General Contractor shall be responsible for verifying the cubic yard quantities of proposed berms or planter areas.
- 3. The Landscape Contractor is responsible for all final grading of berms, bed areas, and sod areas until acceptable by the Landscape Architect, both before and after landscape installation has begun.
- 4. The Landscape Contractor is to verify soil condition of all planting areas as to pH level and organic stability before planting begins. Recommendations, if any, for improvement to existing soil shall be submitted to Godard Design Assoc. for review and record before installation begins. If soil conditions are found to be unsatisfactory the soil must be amended in accordance with test results and recommendations.
- 5. Any unsuitable material found in landscape beds of berms shall be removed by the General Contractor to a depth of not less than twelve (12) inches and backfilled with said suitable material with reasonable (90%) compaction.
- 6. Any debris, such as wood, concrete, stucco, bricks, etc., shall be removed by the General Contractor and backfilled with suitable mat-erial as described in Item

TREE SPADING CONTRACTOR IS RESPONSIBLE FOR:

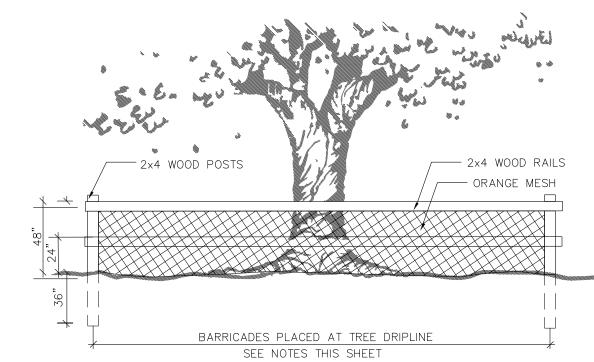
- 1. Locating and verifying all existing underground utilities in or near proposed tree locations before any trees are placed, and shall coord-inate closely with respective utility contractors involved in those areas.
- 2. Scheduling tree spading operations in any area before sidewalks or other
- impassable structures are installed.3. Replacing any tree which has died due to improper transplanting, as directed by
- the Landscape Architect and\or Owner.
 4. Watering in and fertilizing all spaded trees, as well as amending the surrounding soil, until said trees are established. Established shall mean when tree shows no signs of shock, lack of water, or overall poor health until such time as normal
- Tree spade contractor shall amend soil in the immediate area of the tree if said soil
 is not acceptable for transplanting. Notify Landscape Architect in writing of
 proposed soil amendments.

watering as supplied by irrigation system can maintain tree in good health.

LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR:

- 1. Watering in and guaranteeing all other trees as per specifications listed on these plans or the written sections.
- 2. Providing mulch, peat, potting soil, and/or fertilizer on site as directed by the plans, specifications, or Landscape Architect.
- 3. Providing positive drainage of all landscaped areas around build-ings, islands, amenities, and other areas negatively affected by poor drainage. This note covers

all areas not specified on engineering or landscape grading plans.



TREE PROTECTION BARRICADE DETAIL

- PROTECT DESIGNATED EXISTING TREES SCHEDULED TO REMAIN AGAINST:

 -UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS
 - -SKINNING AND BRUISING OF BARK
 -SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION OR EXCAVATION MATERIALS WITHIN DRIP-LINE
 -FOOT OR VEHICULAR TRAFFIC
 -PARKING VEHICLES WITHIN DRIP-LINE
- 2. ERECT TEMPORARY WOODEN BARRICADES AS SHOWN ON THIS SHEET. BEFORE COMMENCEMENT OF ANY SITE CLEARING OR GRADING. FENCE TO BE 4' HIGH MINIMUM WITH 2 X 4 POSTS AND 2-2X4 RAILS AT 2' AND 4' ABOVE GRADE AND SHALL BE SET DEEP ENOUGH IN THE GROUND TO BE STABLE WITHOUT ADDITIONAL SUPPORT. ALL FENCING SHOULD BE A MINIMUM CLEAR DISTANCE AS NOTED BELOW:

TREES RECEIVING CREDITS FOR COUNTY APPROVAL

The area surrounding a retained tree described by a radius of one foot for each inch of the tree's diameter at breast height shall constitute the minimum undisturbed area required to receive points for that tree. During development activity, encroachment into the undisturbed area for purposes described in paragraph (a) ay be permitted up to twenty—five percent of the radius or up to fifty percent of the radius on one side, but no closer than six feet to the trunk of the protected tree in all events; provided, pavement, including foundation up to a depth of six inches may be permitted within four feet of the trunk of a protected tree.

- (a) <u>Permitted Activities Within the Undisturbed Area</u> —A tree encroachment permit is required for all activities in the undisturbed area except the following:

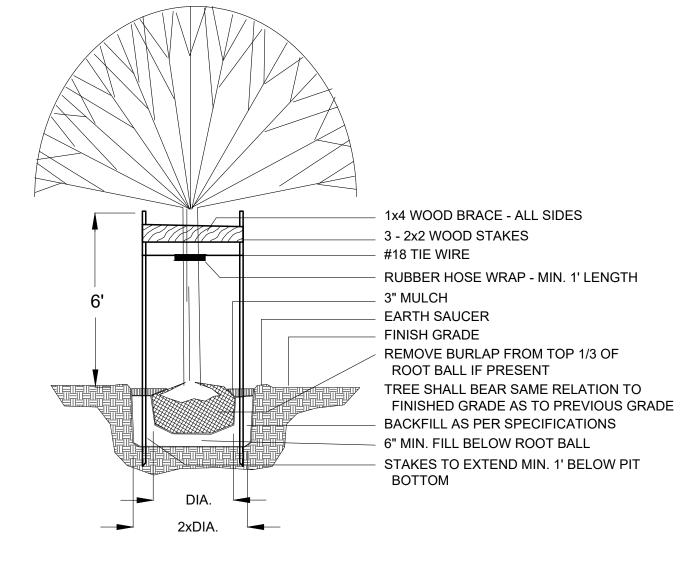
 1. Tunneled Utility and Irrigation Lines —Utility lines that are tunneled beneath tree roots in order to protect roots, rather than trenched.

 2. Sodding and Ground Cover Placement of sod or other ground covers, and the
- preparation of the ground surface for such covers.

 3. Pavement Pavement up to a depth of six inches may be permitted within four feet of the trunk.
- 3. NOTHING SHALL BE PLACED INSIDE OF PROTECTIVE BARRICADES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, MACHINERY, CHEMICALS, OR TEMPORARY SOIL DEPOSITS. WHEN PAVING, EXCAVATION, OR HARDSCAPE MUST BE DONE WITHIN BARRIERS, BARRIERS SHALL BE MOVED BACK TO A SECONDARY LOCATION AT EDGE OF WORK. EXTRA CARE MUST BE TAKEN AT THIS TIME BY THE CONTRACTOR TO INSURE THAT NO DAMAGE TO THE TREE OCCURS.
- PROVIDE WATER TO TREES AS REQUIRED TO MAINTAIN THEIR HEALTH DURING CONSTRUCTION WORK.
 NO GRADE CHANGES ARE TO BE MADE WITHIN THE BARRICADES WITHOUT PRIOR APPROVAL OF THE COUNTY.
 BARRICADES TO BE PLACED AT ALL TREES AS NOTED IN THE CIVIL AND LANDSCAPE DRAWINGS, WHERE INDICATED
- BY SYMBOLS DO NOT PLACE IN WETLANDS.

 7. WHERE SHOWN ON THE CIVIL PLANS, SILT FENCING SHALL SERVE THE SAME PURPOSE AS TREE PROTECTION BARRICADES WITH RESPECT TO TREE PROTECTION AND PRESERVATION. THE SAME RESTRICTIONS AS NOTED ABOVE FOR STORAGE FILL, AND EXCAVATION SHALL BE ADHERED TO.

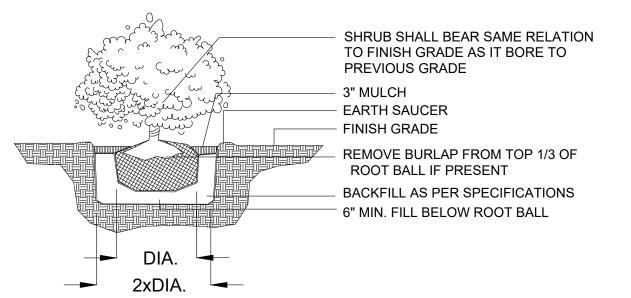
PLANTING DETAILS



TREE STAKING DETAIL

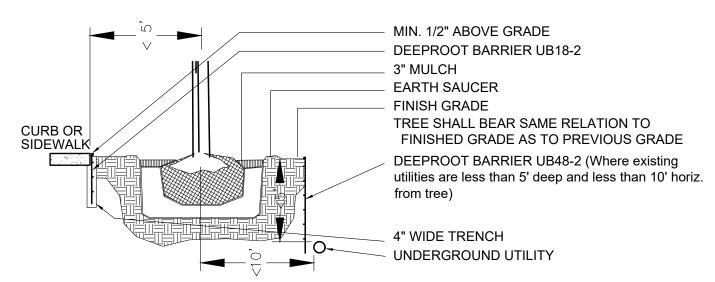
(FOR TREES TO 4" CAL.)

NOT TO SCALE



SHRUB PLANTING DETAIL

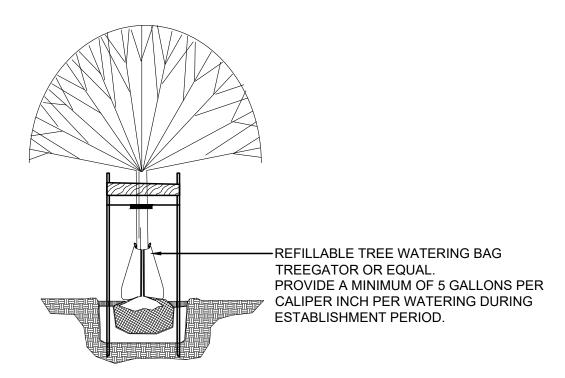
NOT TO SCALE



ROOT BARRIER DETAIL

NOT TO SCALE

Follow manufacturer's installation requirements at www.deeproot.com



TREE WATERING BAG

NOT TO SCALE

ENGINEERING GROUP

PLANNERS AND
4348 SOUTHPOINT BLVD, SUITE 204, JA
TEL: 904-854-4500 C.A. NUMBER:

LANDSCAPE ARCHITECTURE / LAND PLANNIN
541 Oleander Street, Neptune Beach, I
Phone: (904) 247-7729 Fax: (904) 373-917

www.godarddesign.com LC 0000397

OMINION

LON OAKS LAND TRUST

OAKS

REVISIONS 1/6/22 TREE REMOVAI 5/26/22 CITY REVIEW 8/3/22 CITY REVIEW

PLOT DATE:

DRAWN BY: BMG

DESIGNED BY: BMG

CHECKED BY: BMG

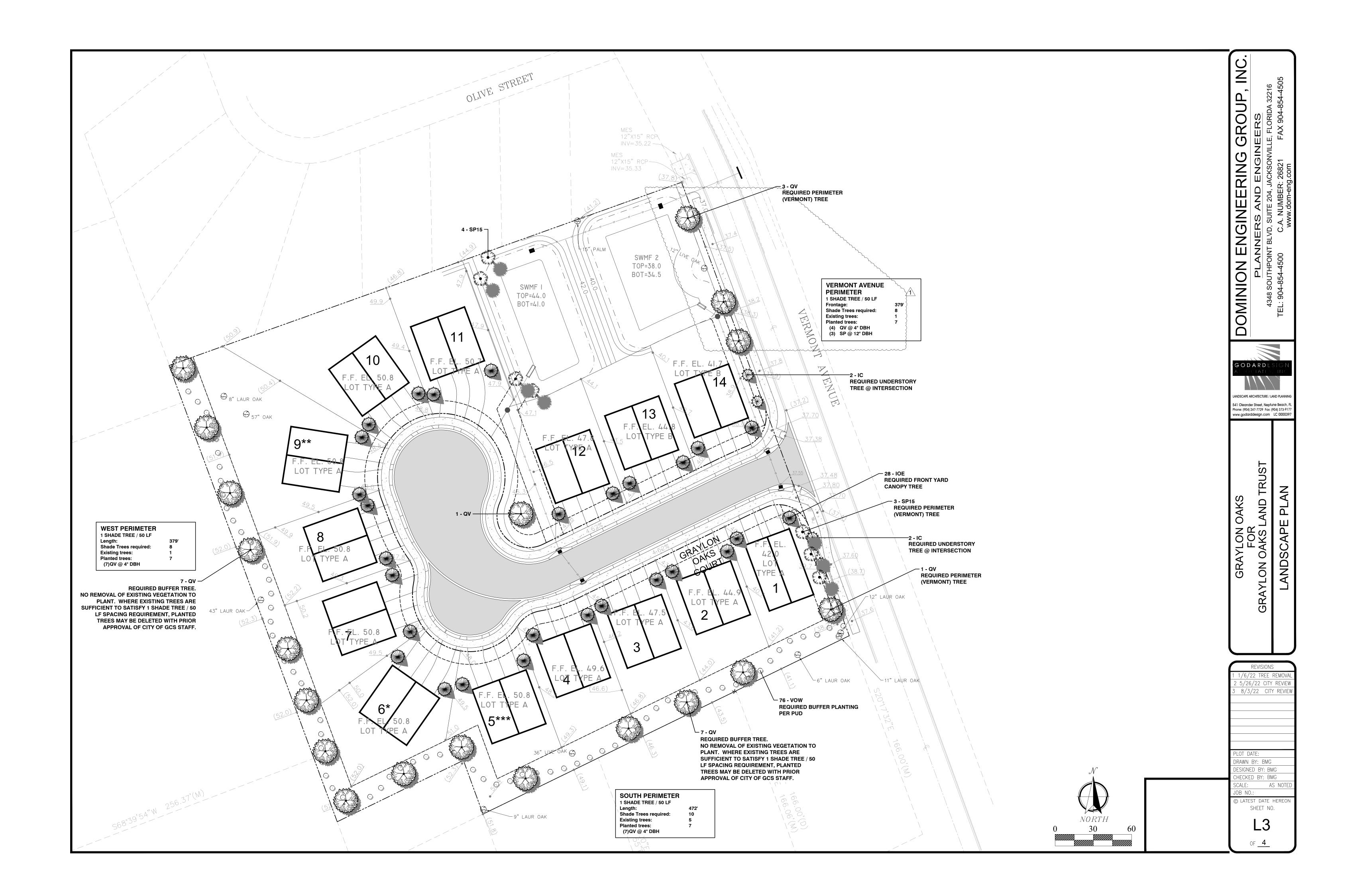
SCALE:

AS NOTE

S LATEST DATE HEREON SHEET NO.

L_2

OF <u>4</u>



1.01 DESCRIPTION OF WORK

- A The work under this section shall include all services tools apparatus materials labor and other means of construction required for the landscaping work in accordance with drawing and these specifications.
- 1. Lay out beds, tree locations, shrubs and ground cover as shown on the
- 2. The work shall include the preparation of the ground, finish grading, sodding, planting, fertilizing, mulching, preparation and applying peat and fertilizers and all other work required by the drawings and specifications.

1.02 APPLICATION DOCUMENTS

- A. The following specifications and standards of the issues listed and referenced to, form a part of this specification to the extent required by the references thereto.
- 1. American Association of Nurserymen, 1949 Edition of Horticultural
- Standards, (635 636 Southern Building, Washington, DC)
- 2. The Standard Cyclopedia of Horticulture, L.H. Bailey, 1953 Edition, 3 Volumes by the MacMillian Company, New York, New York.
- 3. Grades and Standards for Nursery Plants, Part 1 and 11, Department of Agriculture, State of Florida, Division of Plant Industry, Post office Drawer 1269, Gainesville, FL 32601.

PART 2 - GENERAL CONDITIONS

2.01 GENERAL REQUIREMENTS

- A. Approval and Rejection of Materials and Work: The selection of all materials and execution of all operations required under the drawing and specifications shall be subject to the approval of the Landscape Architect. The Landscape Architect or his representative shall have the right to reject any and all work which in his opinion does not meet with the requirements of the specifications at any stage of the operations. All rejected materials shall be removed from the site.
- B. Scientific and Common Names: Attention is called to the fact that the scientific and common names used for the plants required under this contract are generally in conformity with the approved names given in the Standard Plant Names, published by the American Joint Committee on the Horticultural Nomenclature. The names of varieties not included therein are generally in conformity with the names accepted in the nursery trade,
- C. All plants shall conform to the varieties specified in the Plant Schedule. No substitutions of varieties or colors will be allowed without prior written or verbal approval of the Landscape Architect.
- D. All plant materials shall conform to a Florida No. 1 or better (Florida Fancy). Those not listed by "Grades and Standards for Nursery Plants", published by the Division of Plant Industry, shall conform to a Florida No. 1 as to
- 1 . Health and vitality
- 2. Condition of foliage
- 4. Freedom from pest or mechanical damage
- 5. Heavily branched and densely foliated according to the accepted normal shape of species of sport.

2.02 DEFINITION AND INTENT OF DOCUMENTS

- A. The contract documents consist of the contract agreement, the drawings and the specifications, including all modifications thereof incorporated in the documents before their execution, it is specifically agreed upon that this contract shall be in all aspects constructed and interpreted in accordance with the laws of the state in which it is executed.
- B. The contract documents are complimentary and what is called for by one shall be as binding as if called for by all. The intent of the documents is to include, unless otherwise stated, all labor, materials, equipment and transportation for the proper execution of the work.
- 1. Where there is a conflict between requirements called for in both these written specifications and the drawings, the more strict of the two shall be the contractual obligation, unless specifically noted buy the other.

2.03 OWNER'S AUTHORIZED REPRESENTATIVE

A. The Owner shall designate or appoint one (1) person as his representative to work with the Contractor. The Contractor shall be notified in writing of the name and address of this duty appointed representative. This representative shall have full authority to approve work performed by the Contractor, make field changes that are deemed necessary and approve estimate submitted by the Contractor for payment.

2.04 LIABILITY OF CONTRACTOR

- A. The contractor shall be liable for any and all damages to property which result from his performance. He shall, with extra cost restore to original condition any areas and/or construction damaged, defaced, disturbed or destroyed by him or his
- B. The contractor shall maintain adequate protection of all his work from damages and shall protect the Owner's and adjacent property from injury or loss arising from this
- C. The contractor shall not be obligated to replace, repair or restore any portion of this work which is damaged, defaced, disturbed or destroyed by others or by the owner and/or which results from Owner's negligence.

2.05 TAXES

A. The contractor shall pay all Federal. State and local sales and use tax applicable to materials, processes or devices purchased or used in connection with the work under this contract.

2.06 EXAMINATION AND VERIFICATION OF DRAWINGS AND SITE

A. It shall be the contracting installer's responsibility to report to the Owner's Representative any deviations between drawings, specifications, and the site. Failure to do so prior to installing of the plant material and resulting in replacing and/or relocating same shall be done at the contractor's own expense.

2.07 ORDINANCES AND REGULATIONS

A. All local, municipal and state laws and rules and regulations governing or relating to any portion of this work are hereby incorporated into and made a part of these specifications and their provisions shall be carried out by the contractor. Anything contained in these specifications shall not be construed to conflict with any of the above mentioned Rules and Regulations or requirements, and where the Rules, Regulations or Specifications and/or drawings call for or describe materials, workmanship or construction, or a better quality, higher standard or larger size, these specifications and/or drawings shall take precedent over the requirements of said rules, regulations or codes.

2.08 MATERIALS AND WORKMANSHIP

A. Whenever any material is specified by name or number thereof, such specification shall be deemed to be used for the purpose of facilitating a description of the materials and establishing quality, and shall be deemed and construed to be

- followed by the word "OR APPROVED EQUAL." No substitution will be permitted which has not been submitted for prior approval by the Owner's Representative. All materials shall be new and without flaws or defects and shall be the best of their class and kind. Sufficient literature and/or samples must be furnished for any materials submitted as "equal" substitutes. All materials shall be guaranteed for a period of one (1) year against material defects and workmanship.
- B. All materials and equipment shall be installed in a neat and workmanlike manner. The Owner's Representative reserves the right to direct the removal and replacement of any items, which in his opinion shall not represent an orderly and reasonably neat workmanlike appearance, provided such work can be properly installed in such and orderly way, by the usual methods in such work, Such removal and replacement shall be done, when directed in writing, at the Contractor's expense without additional cost.

2.09 PROJECT INSPECTION

A. It is the intention of these specifications, together with the accompanying drawings to accomplish the work in an efficient and satisfactory manner according to the workmanlike standards established for the nursery industry. Notwithstanding is the fact that these specifications and drawings may be deficient in setting forth a complete detailed description of the work to be done.

2.10 RECORD DRAWINGS

- A. The Owner will furnish the Contractor with two sets of blueline prints, showing all work required under this contract, for the purpose of having the Contractor record on one set of prints all changes that may be made during actual installation of the
- B. After final acceptance of the completed installation, the contractor shall be responsible for having complete drawings prepared showing all such changes and these shall be turned over to the Owner for recording purposes.

2.11 MATERIAL STORAGE AND CLEANUP

A. The contractor shall keep the premises free from rubbish and debris at all times and shall arrange for this storage so as not to interfere with Owners operation of the job. All unused materials, rubbish and debris shall be removed from the site.

2.12 EQUIPMENT, TOOLS AND LABOR

A. The Contractor shall furnish all such equipment, tools and labor necessary to push work, in an acceptable manner, to a speedy completion. This contract is based on the Contractor furnishing and using his equipment, tools and labor which are suitable to carry out this contract in a first class manner, unless otherwise hereinafter

2.13 CHANGES OR ADDITIONAL WORK

- A. The Owner may, without invalidating the original contract, order such changes or additions as may from time to time be deemed desirable or necessary. In doing so, the contract price shall be adjusted to the mutual agreement of the contractor and the Owner, with all work being done under the conditions of the original contract. except for such adjustments in price and in extension of time as may be necessary.
- B. The contractor shall bring to the attention of the Owner's Representative changes which may necessitate deviation(s) in construction form the original plans by other contractors on the job. Changes in price caused by such deviation(s) shall be agreed upon by both Contractor and Owner's Representative before work proceeds.

PART 3 - MATERIALS

3.01 GENERAL

- A. Topsoil: Planting areas may use existing soil on the site as long as it has been cleared of unsightly underbrush and their roots, limbs, buried construction debris, pockets of clay, rocks and other extraneous matter.
- B. Unsuitable Soil Conditions: Absolutely no plastic or clayey soil is to be used in any planting landscape areas. If such a condition is found, it is to be removed to a depth of 3 feet and 1 foot outside of said planting bed. This area is to be backfilled with materials of suitable sandy gradation which is porous and percolates well with reasonable compaction. If any planting or sod area has a plastic or clayey soil condition which does not allow for proper drainage, then a system of underdrain, turf drain or some other means of releasing underground standing water must be incorporated under the direction of the Landscape Architect and Owner.
- C. Soil Tests: The landscape contractor is to test all soil conditions of all existing planting areas, or areas backfilled or composed primarily of existing soil where contents or PH is not previously known, as to its PH and organic content before planting to be sure all unsuitable material has been removed as per 3.1 B. Before any soil addenda are added to the soil, a soil test shall be taken to determine the type and amount of PH controlling materials needed to bring the soil to PH rating of 6.0. Results of soil tests shall be submitted to the Landscape Architect of his representative prior to application of soil addenda.
- 1. Soil samples shall be taken from 5 different locations throughout the work area. Samples may not be taken closer than 50 feet from any other samples
- 2. Samples shall be mixed and tested accordingly.

- 1. Slow-release commercial fertilizer 866 formula: 50% nitrogen requirement shall be derived from organic sources and the secondary plant foods consisting of 4.5% potash-magnesia, 0.5% manganese sulfate, 0.5% copper sulfate, .05% borax.
- 2. Wetable Sulphur: Shall be finely ground dusting or wetable but must pass a 375 mesh screen, Analysis of sulphur must be between 90% and 93%. 3. Iron Sulfate: Analysis of 18% to 19% metallic iron.
- 4. Guarantee of Fertilizer Analysis: Before delivery of fertilizer is made, the contractor shall submit the manufacturer's statement of analysis of the fertilizer indicating the properties of organic matter and the availability of the plan food. The fertilizer is to be delivered to the site in the original containers unopened and bearing a guaranteed analysis fulfilling the required specifications.
- E. Superabsorbent: White "Terra-Sorb AG" synthetic acrylamide co-polymer crystals with a particle size of 1 to 3 mm, available from Seedsmiths, 781-9400; Jacksonville, Florida, or approved equal.
- F. Mulch: Mulch shall consist of either pine straw or cypress (Grade A). Cypress mulch will be placed in all planting beds, planters or any other area whether or not specified on the plans. Pine straw is to be placed in all natural areas or any other area specified on the plan. All mulch is to be clean, bright and free of weeds, moss, sticks, sapwood, chips or other debris. Ali mulch is to be installed evenly to a depth as notedon the drawings and cover all areas of the planting beds, etc.
- G. Water: Water used for landscaping is to be from Owner provided sources. Water for planting occurring prior to final operation of irrigation system shall be supplied by the Contractor at no cost to the Owner,

3.02 TOPSOIL MIXTURE

A. All topsoil which is used to replace existing soil in tree, shrub and ground cover beds for planting operations as labeled shall be of similar organic content and PH as the existing surrounding soil. Where a topsoil mixture is specifically called for, it shall be prepared and conditioned as follows. These operations shall only be made after consulting with Landscape Architect.

- 1. Mix one part by volume peat and two parts by volume of existing soil and five pounds of 75% organic 6-6-4, 59-8 fertilizer and five pounds of commercial 50% organic 6-6-6 fertilizer to each cubic vard of the mixture. Add wetable sulfur and iron sulphate in quantities necessary to bring the soil to PH rating
- 2. Fill material for berm areas is to be provided by General Contractor unless otherwise directed by Landscape Architect.

3.03 PLANT MATERIAL

- A. Quantity and Size: All plants and trees shall be Florida No. 1 or better, as defined in and in accordance with "Horticultural Standards" (latest edition) of the rules and grading adopted by the American Association of Nurserymen and "Grades and Standards for Nursery Plants". All plants shall have a normal habit of growth and shall be sound, healthy, vigorous and free from insect infestations. Any tree with weak, thin trunks not capable of supporting itself when planted in the open will not be accepted. The minimum acceptable size of all plants, measured before pruning, with branches in normal position, shall conform to dimensions as shown in the Plant Schedule. Specific container sizes, when noted, may be used only when the minimum container size equals the minimum size indicated in the Plant Schedule. Reasonable effort shall be made to locate specific sizes. Smaller sizes may be acceptable only after notification of and approval by Landscape Architect, Larger plants of equal quality may be accepted at no additional cost to the Owner. Specimen trees may be specified to be installed by others at the direction of the Landscape Architect.
- B. Balled Plants: Plants that are balled and burlapped (B&B) shall be adequately balled with firm natural balls of soil sized as set forth in "Horticultural Standards". Balls shall be firmly wrapped in burlap or equal approved strong cloth. No balled plant shall be planted if the ball is cracked or broken before or during the process of planting.
- C. Balled and Wired Plants: Plants that are wire balled and burlapped (WB&B) shall be dug with solid balls of adequate size, the balls securely wrapped with heavy burlap or equal and tightly bound with mesh.
- D. Container Grown Plants: Plants that are container grown shall have been grown in pots, cans, tubs or boxes and shall have sufficient roots to hold earth together intact after removal from containers without being rootbound.
- E. Options as to Methods: Any plant may be furnished container grown instead of balled if all other requirements as met.
- F. Protection Against Drying Out: All plants shall be handled so that roots will be adequately protected at all times from drying out and from other injury, the balls or balled plants which cannot be planted immediately on delivery shall be well protected with soil or other acceptable material.
- G. Plant Labels: Durable, legible labels, stating in weather resistant ink or equal, the correct plant name and size, specified in the plant list, shall be securely attached to all plants, bundles and/or containers or plant material delivered at the planting site, for the purpose of inspection and planting identification.

PART 4 - WORKMANSHIP AND INSTALLATION

- 4.01 SPECIAL TREATMENT AND HANDLING FOR SPECIMEN PLANTS
- A. Trees and shrubs for isolated specimen planting shall be selected for shape and symmetrical branching habit which at maturity will produce a strong, full-foliaged tree, bush or other specimen. Particular care shall be exercised in the digging, binding and wrapping of such specimens to assure safe loading, shipment and handling or the entire operation of transportation from growing location to the replanting locations shown on the drawings and in Plant Schedule.

4.02 SOIL TESTS

A. Four (4) weeks prior to planting operations, test existing soil for pH and submit report from the University of Florida Extension (IFAS) Soil Testing Laboratory. Collect soil samples in accordance with recommendations of the Laboratory. A soil test kit may be obtained from the County Extension Service

4.03 GUYING AND STAKING

- A. All trees shall be guyed or staked according to the details provided in the drawings.
- I. Hose: Hose shall be suitable garden hose not less than 1/2" inside diameter. 2. Stakes: Stakes for supporting trees and palms shall be of sound wood of uniform size, creosoted or pressure treated by an approved process. Stakes shall not be less than 2 inches by 4 inches nominal dimensions and not less than 2-1/2 feet in length for guying and not less than 9 feet for staking, and shall be in all cases of sufficient dimensions and length to satisfactorily and
- firmly guy each tree 3. Wire: Wire shall be galvanized pliable, zinc-coated iron not less than No. 12
- 4. Turnbuckles: Turnbuckles for guying trees shall be galvanized or cadmiumplated and shall be of adequate size and strength to properly maintain tight
- 5. Option of Contractor: at the option of the contractor, the staking and guying of trees may be omitted. The Contractor assumes all responsibility if he does not stake or guy.
- B Water in Trees: All trees, whether balled container or spaded, shall be watered in properly, immediately after planting. A water hose is to jet water around the perimeter of the ball at least in three separate places. Watering is to continue until all air pockets have been filled. Additional fill may be needed to bring fill to proper height. Retamp for compaction and grade.
- C. Tree Spading Operations (by outside contractor supervised by Landscape
- 1. Spades will be of sufficient size comparable to trunk caliper so as not to damage the root system.
- 2. Trees are to be set so as not to have any part of the root ball side exposed. If this occurs then the tree spade contractor is responsible for adding additional fill and hand grade to match existing slope. Landscape logs may be used by the contractor if the conditions warrant as directed by the
- Landscape Architect 3. Immediately after spading the tree it is to be watered in properly and a water dish built to retain the water around the root ball.

4.04 PLANT SCHEDULE

- A. The species, size, color or other specific requirements to be furnished, and the number of plants required to complete the planting as indicated on the Landscape Plan are given in the Plant Schedule.
- 1. All dimensions given under the plant schedule shall be the minimum acceptable sizes, unless otherwise approved per 3.3.A.

4.05 INSPECTION OF PLANTS

A. The contractor shall be responsible for all certificates of inspection of plant materials that may be required by Federal, State or other authorities to accompany shipment of plants. All plants shall be subject to inspection and approval by the Landscape Architect at any place and at any time. Part of the plants required for the work may be inspected at the place of growth but inspection should not in any way impair the right of rejection at the site. All plants must be inspected and approved before they are planted. All plants that are rejected shall be immediately removed from the site.

4.05 PLANTING SEASON

A. The planting of plant materials may proceed at any time or period or season agreed upon by the Landscape Architect or his representative as being satisfactory.

4.07 GRADING PREPARATIONS

- A. Before the preparations of the planting area begin, all barricades around the remaining trees and other protective areas shall be removed by the Landscape
- B. The finish grade of all planting areas shall be 2-1/2" below the top of abutting curbs, walks, paving and abutments.
- C. The General Contractor is responsible for removing all construction debris in any areas to be landscaped at least one day prior to the Landscape Contractors schedule of preparation for landscaping. No debris such as boards, drywall, paint containers, metal bands, pipe, cardboard boxes or any other item which may cause the Landscape Contractor any delayed time, shall be left on the site.

4.08 GRADING

- A. General Contractor is to verify exact amount of fill needed as shown on civil grading plans and stock pile on job, if feasible.
- B. All fill for berming, landscaping areas such as planters, planting beds and in curb islands shall be of suitable construction material.
- C. Absolutely no clay, mulch, gumbo or sandy clay may be used. Suitable material will
- D. Any unsuitable material found in the above landscaping area will be removed to a depth of three feet and one foot outside the planting bed perimeter, then will be filled with suitable material to reasonable compaction.
- E. Rough grading and intermediate rough grading will be done by the General Contractor. Fine grading will be done by the Landscape Contractor.
- 1. Rough grading is the placement of all dirt in designated areas (including planters), balanced to rough grade and shaped to the general intent of the

consist of only clean sand, porous gradation.

- plans as directed by the Landscape Architect 2. Intermediate rough grading is that work which is needed, by request of the
- Landscape Architect, to repair all erosion problems on site, including washouts, into the lake, roadway or around building pads. 3. Fine grading is that work which will be done by the Landscape Contractor exclusively. This work consists of hand grading all areas for sodding, all
- berms that have been properly balanced and shaped by the General Contractor under rough grading. 4. If fine grading has been completed and severe erosion has taken place before sod or plant material has been installed, then intermediate rough grading will be requested and approved by the Landscape Architect and the
- work shall be the responsibility of the General Contracto 5. If severe erosion has taken place after sod or plant material has been installed, then intermediate rough grading will be requested and approved by the Landscape Architect and the work will be the responsibility of the

General Contractor. 4.09 PLANTING OPERATIONS

- A. Laying Out Plant Locations: Locations for all plants and outlines for planting areas shall be staked or appropriately laid out on the ground prior to digging pits. Before plants are set, orientation of plant faces, foliage and branchings shall be adjusted for best views.
- B. Preparation of Plant Pits: All pits shall be circular in outline, at least twice the width in diameter than that of the plant and excavation shall have near vertical sides. The specified for excavation of plant pits shall be the depths below the finished grades and shall be increased as much as may be necessary to accommodate a bed of the topsoil mixture as specified herein beneath the ball of roots
- C. Obstruction Below Ground: any extraneous matter shall be removed to the depths necessary to permit proper installation of planting. If obstruction is not feasible. remove. The Landscape Architect is to be notified and he is to make adjustment of

4.10 SETTING PLANTS

the plant material.

- A. Shrubs and Ground Covers: All plants except as otherwise specified, shall be centered in pits. Deep planting shall be avoided and unless otherwise specified or directed, all plants shall be set at such a level that after settlement, they will bear the same relation to the required grade as they have to the natural grade before being transplanted. Make adjustments of position of plants where necessary and prior to complete planting.
- B. Compact topsoil mixture, as specified, around balls or roots the full diameter of plant pit and water thoroughly and form a ridge of soil around edge of pit to form a saucer.

A. All plant materials shall be trimmed and shaped to provide for the desired effect when indicated on plan. All pruning shall be in accordance with standard modem

horticultural practice. 4.12 SHRUB & TREE PLANTING

- A. Shrubs, B&B 3 gallons and larger, shall be planted in pits, at least 2 times greater in diameter than the ball of earth. The depth of the pits shall be as deep as necessary to permit the required 6 inches of topsoil mixture beneath the ball and to accommodate the ball or roots when the plant is set to the required grade Backfill with topsoil mixture as specified and thoroughly settle by tamping and watering. A mound of soil shall be formed around each plant so as to produces a shallow
- B. Where required by the plans, spread superabsorbent around new trees only, at a rate recommended by the manufacturer for rapid growth / new plantings. Uniformly spread throughout a 6 foot diameter area centered on each tree. Omit the superabsorbent, if the tree is within an area with a normal high water table.

4.13 GROUND COVER PLANTS

treated as ground cover plants.

- A. Plants planted at a spacing of up to 18 inches and plants of smaller size shall be
- B. Preparation of top six inches (6") of planting soil shall be prepared as follows (unless
- noted otherwise in Plant Schedule): 1. Fine grade to remove all extraneous matter.
- 2. Spread three inches (3") of peat moss or humus uniformly over entire ground cover area.

7. Plant beds that have a spacing of plants that is 12" or less may be mulched

- 3. Spread the 50% organic fertilizer at the rote of 40 pounds per 1,000 square feet uniformly over the ground cover area. 4. Spread the 75% organic fertilizer at the rate of 25 pounds per 1,000 square
- feet uniformly over the ground cover area. 5. Rotor mix or mix by other method to a depth of six inches (6"). 6. Regrade to the finished grade before mulching.
- before planting. 8. Thoroughly water and firm the plants into the ground cover mixture.

C. Plants shall be oriented so that the spread on the plants will uniformly cover the space between them.

4.14 SODDING

- A. The finish level of all grass areas after settlement shall be one inch below the top abutting curbs, walks, paving and wood borders to allow for the building of turf.
- B. The sub-grade soil shall be loosened by roto-tillier or other approved method to a minimum of six inches and graded to remove all ridges and depressions so that it will be after settlement everywhere parallel to and at the proper level to provide finished grades specified hereinbefore. All stones over two inches in dimensions, sticks, debris and other extraneous matter shall be moved during this operation.
- C. Soil Tests: Before any soil additives are applied to the soil, a soil test shall be taken to determine the type and amount of PH controlling materials needed to bring the soil to a PH rating of 6.0. Results of soil test shall be submitted to the Landscape Architect or his representatives prior to application of soil additives.
- D. Correcting PH: Apply the necessary material to correct the PH.
- E. After preparation of subsoil, commercial fertilizer 6-6-6 50% organic shall be applied on all grass areas at the uniform rate of 20 pounds per 1,000 square feet.
- F. Solid sod shall be sufficiently thick to secure a dense stand of live grass and shall be free from weeds or undesirable grasses. At the time the sod is cut, the grass shall not have a length of more than two inches.
- G. Thickness shall be as uniform as possible, approximately 1-1/2 inches or more, depending on the nature of the sod, so that practically all the dense root system of the grasses will be retained, but exposed in the sod strip, and so that the sod can be handled without undue tearing or breaking.
- H. Sod shall be watered before lifting and in sufficient quantities to provide a well

moistened condition of the sod, full depth to which it is to be cut.

- I. The sod shall be live, fresh and uninjured at the time of planting. It shall be planted as soon as possible after being dug and shall be shaded and kept moist from the time it is dug until is planted. The sod shall be approved by the Landscape Architect
- J. Sod shall be laid with broken joints and fitted together to form a uniform neat blanket effect. All poor grass, light spots and trash shall be cut out of the sod and patched with good sod.
- K. Watering: The grassed areas shall be kept in moist condition for a least two weeks after it is planted and as long as required for a stand of grass.
- L. Patching: Weed sodded areas which have to be removed and replaced will be done so by cutting out the affected area - graded to a depth equal to bottom of existing sod adjacent and replaced tightly to form a uniform carpet not noticeable whether the grade is flat or on a slope.

4.15 MULCHING

- A. After all plants in a group or in a plant bed have been set and approved, the areas between plants shall be cultivated and raked to an even grade to conform to the required premulching finish grades. All plant beds and plant saucers shall then be uniformly covered with three-inch layer of cypress bark, or as specifically noted on
- B. Trees which are not located in plant beds shall be mulched to 3' radius from center
- C. Ground cover plants (spacing of more than 12 inches) shall be set in the plant beds before mulching is applied to these areas.

PART V - FINAL COMPLETION AND ACCEPTANCE

5.01 CLEAN-UP AND PROTECTION

A. Upon completion of the work, the grounds shall be cleared of all debris, superfluous materials and equipment due to landscape operations. B. The Contractor shall protect all work included under his contract against trespassing

and damage of any kind until final inspection and acceptance. If any material is

injured it shall be treated, repaired or replaced as required.

- 5.02 FINAL INSPECTION A. At the conclusion of the planting, a final inspection of the work will be made to determine the condition of plant materials. All plants not in a healthy, growing condition as determined by the Landscape Architect or his representative shall be removed from the site and promptly replaced with plants of the like, kind and size in the same manner as specified for the original planting, at no additional cost to the
- B. At the conclusion of this final inspection, if the Landscape Architect or Owner has reason to believe that the plants are not of the specified grade, he will request a regrading inspection by the Division of Plant Industry, and such evidence will be the basis for requesting replacement of plants, and for legal or other action taken by the

Division of Plant Industry according to law, should this become necessary.

5.03 HURRICANE DAMAGE OR ACTS OF GOD A. The Contractor shall not be held responsible for replacement or repairs of plants or planting areas killed or damaged by hurricanes or Acts of God provided he shall

have taken all reasonable precautions to minimize their damage. 5.04 GUARANTEE

5.05 HARM TO PLANT MATERIAL A. The General Contractor is. responsible for damage to any plant materials or sod which is harmed by foot traffic, ladders in beds, paint brush cleaning, spillage of chemicals in landscaped areas, heavy equipment traffic, construction debris left laying, roofing materials or any other circumstances which is obviously the result of

A. All plants, ground cover materials, trees and palms shall be guaranteed for a period

of one (1) year after final inspection and acceptance by the Owner.

(End of Section)

construction work aftermath.

GROUP

GINEERING

Z W

OMINION



REVISIONS /6/22 TREE REMOVA 5/26/22 CITY REVIEW 8/3/22 CITY REVIEW

OT DATE: RAWN BY: BMG ESIGNED BY: BMG

HECKED BY: BMG

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) LATEST DATE HEREOI SHEET NO.

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