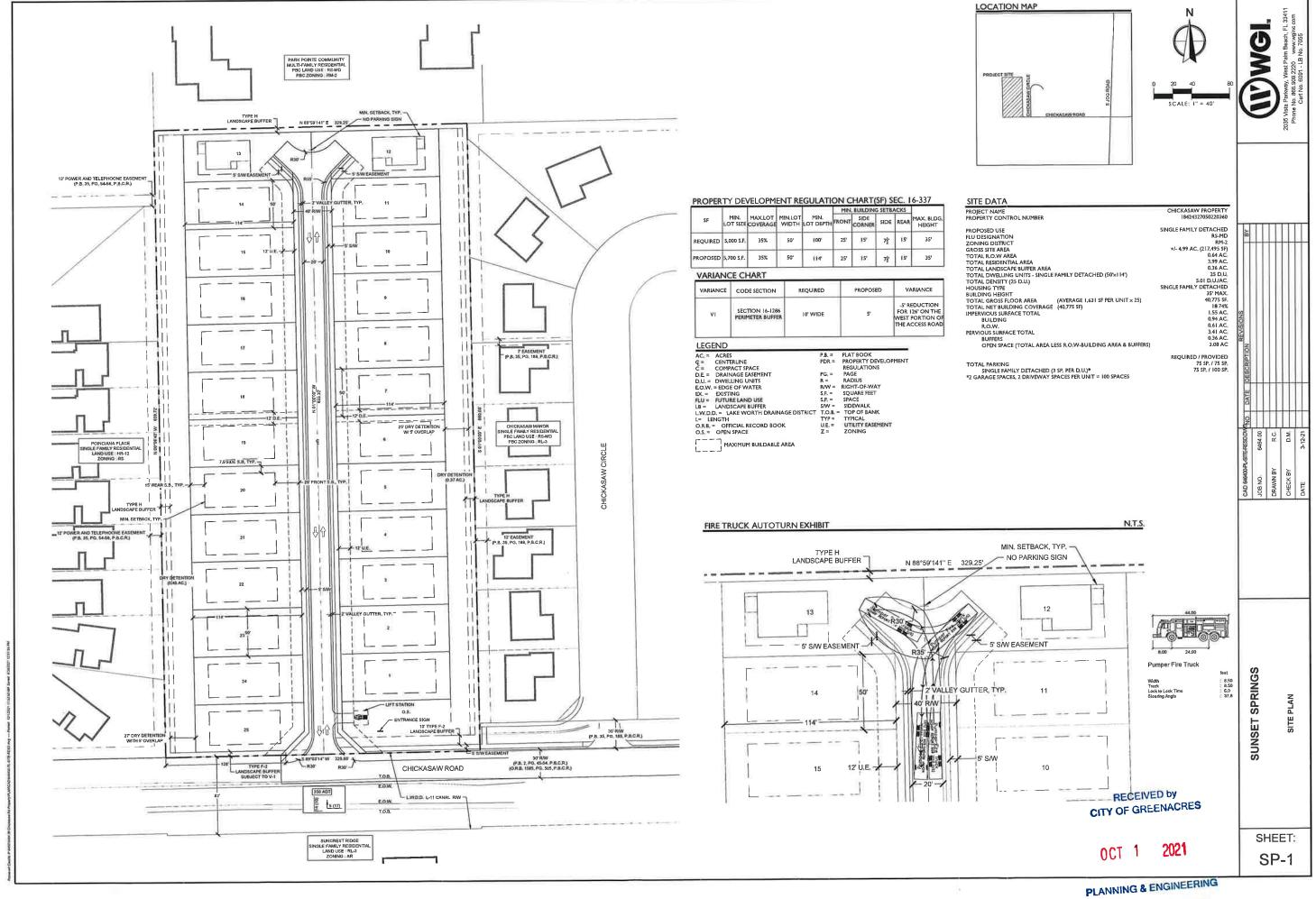


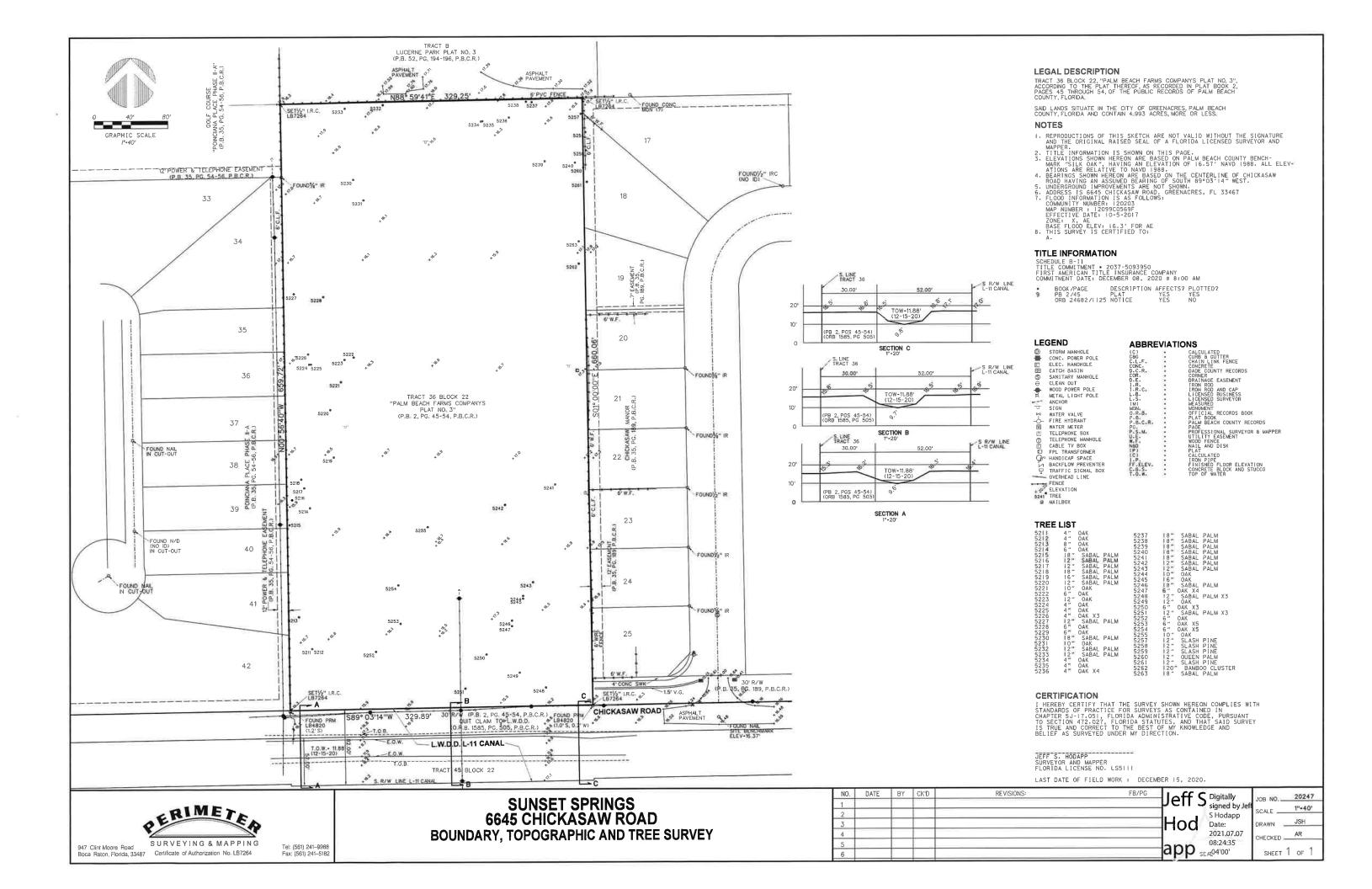


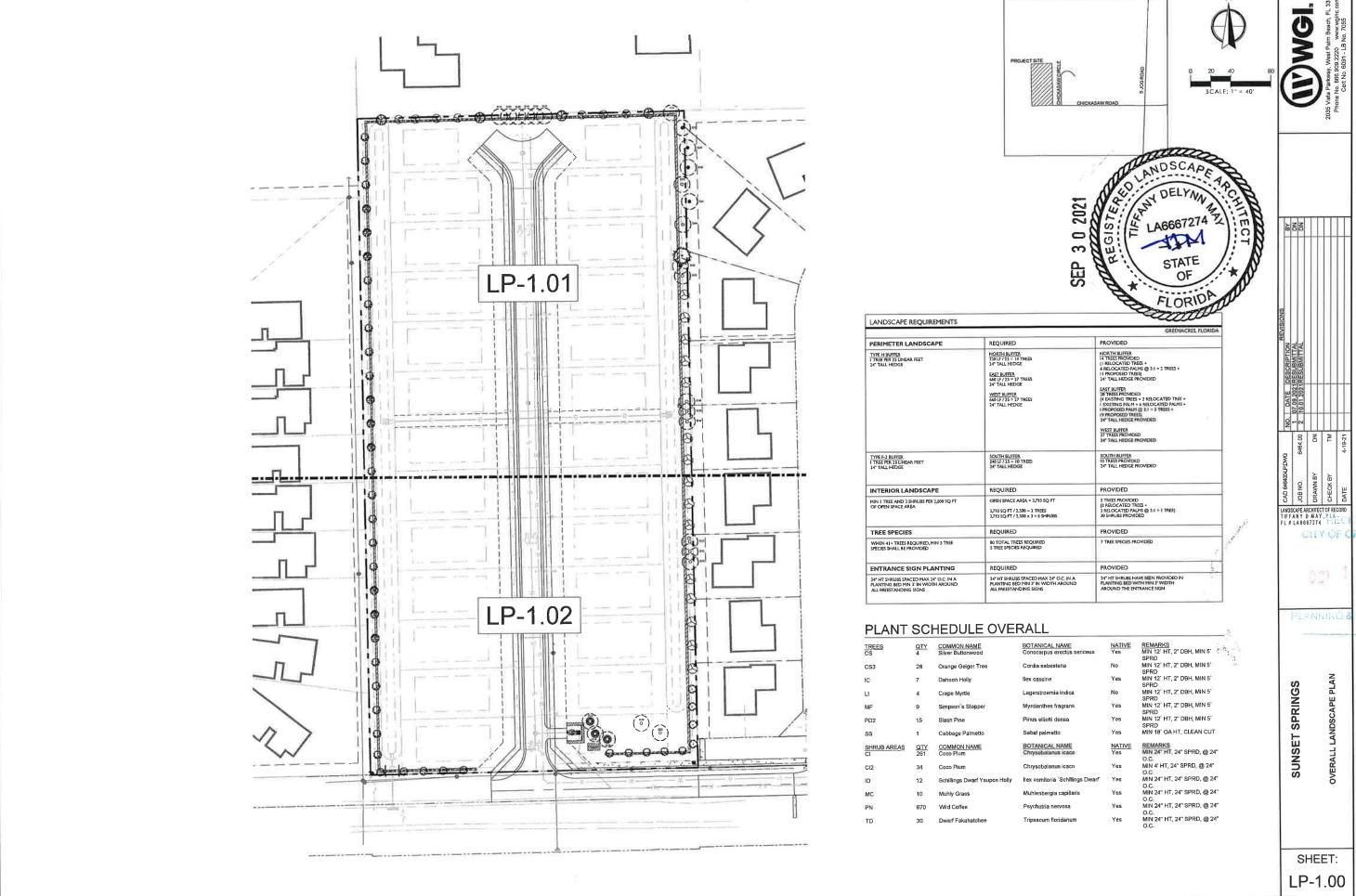
Sunset Springs SP-21-01

Prepared By: Planning Department City of Greenacres 5800 Melaleuca Lane Greenacres, FL 33463



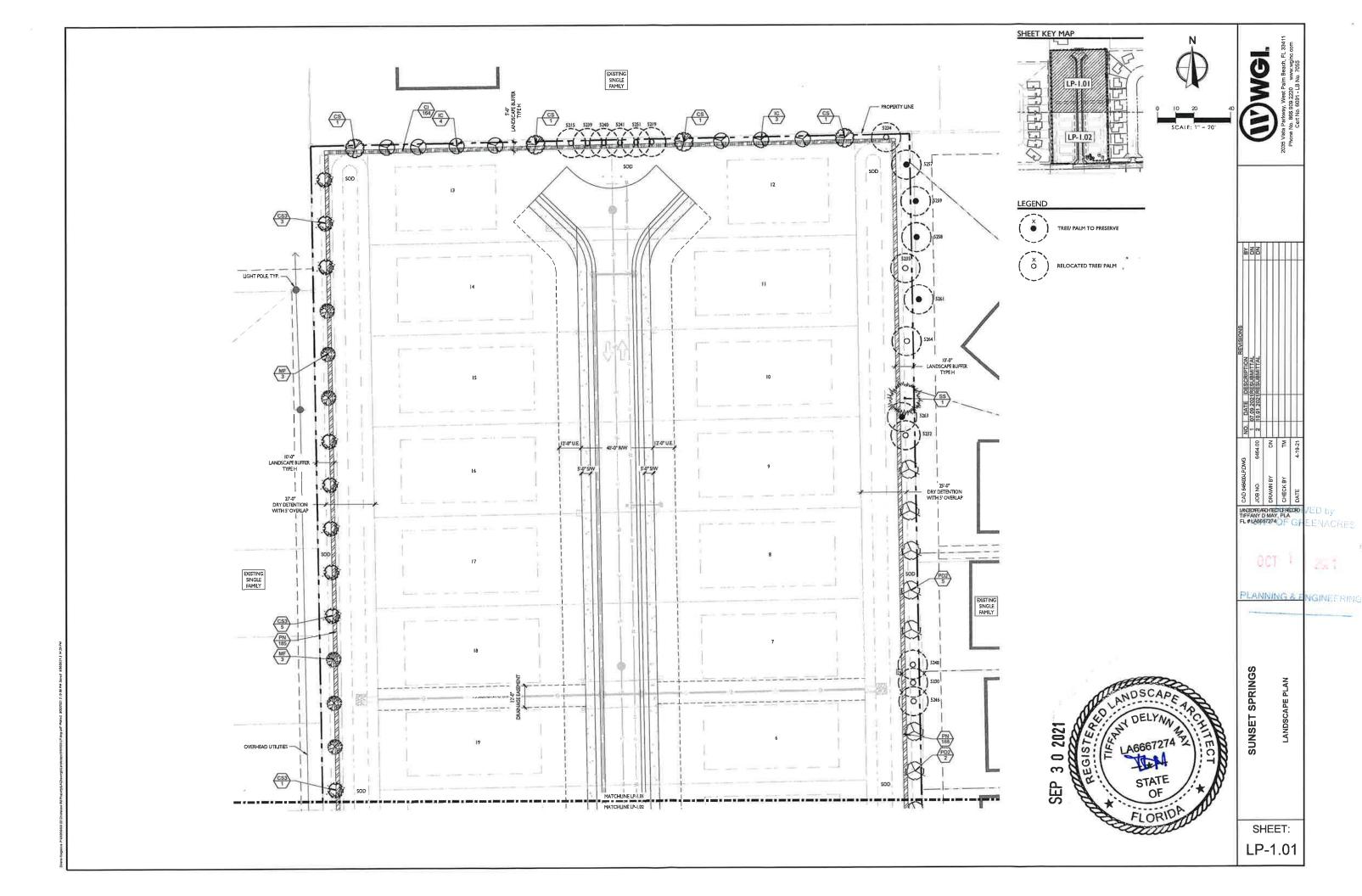


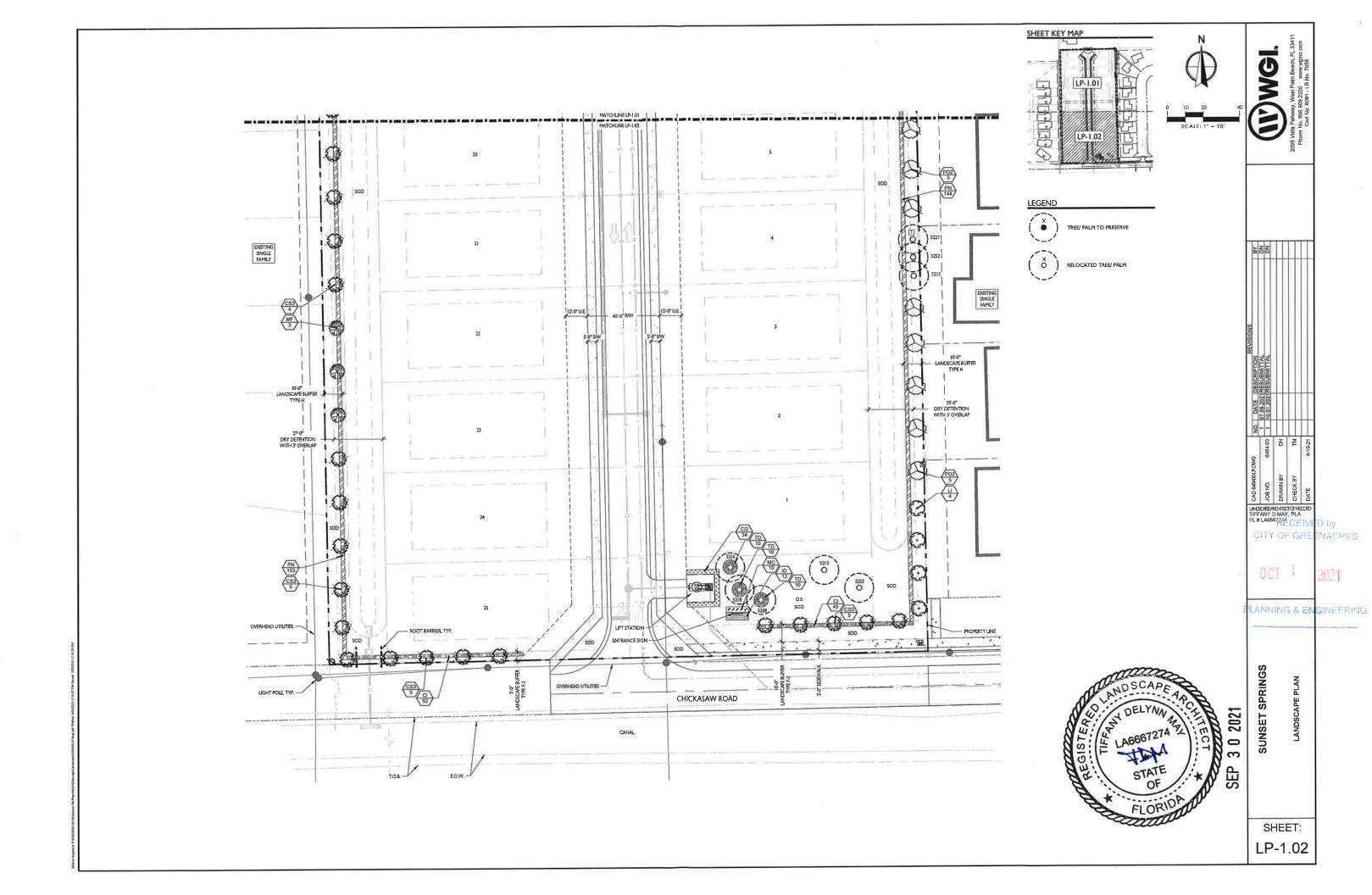


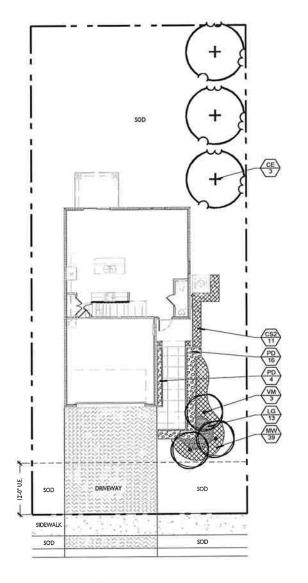


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LOCATION MAP





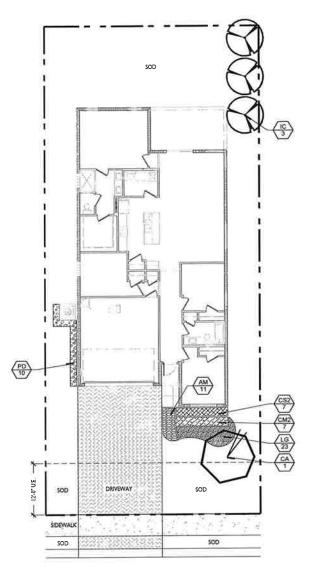


TYPICAL LANDSCAPE - AISLE MODEL PERVIOUS AREA: 3,691 SQ FT - 65% OF LOT AREA IMPERVIOUS AREA: 2,009 SQ FT - 35% OF LOT AREA

LANDSCAPE REQUIREME	NTS		
INTERIOR LANDSCAPE	REQUIRED	PROVIDED	
MIN I TRUE AND 3 SHRUBS PER 1,500 SQ FT OF LOT AREA	LOT AREA = \$,700 SQ FT 5,700 SQ FT / 1,500 = 4 TREES 5,700 SQ FT / 1,500 x 3 = 12 SHRUBS	4 TREES PROVIDED (3 TREES + 3 PALMS @ 3:1 = 1 TREE) 31 SHRUBS PROVIDED	

PLANT SCHEDULE AISLE

TREES	<u>OTY</u>	COMMON NAME	BOTANICAL NAME	NATIVE	MENAUSE
CE	3	Green Budonwood	Conocarpus erodus	Yes	MIN 12" HT, 2" DEH, MIN 5" SPRE
VM	3	Montgomery Palm	Ventha mortgomeryina	No	MIN 12" CLEAR TRUNK
SHRUB AREAS	OTY	COMMON NAME	Conscarpus erectus terceus Pococarpus macrophylus "Dwarf Pringles"	NATIVE	RE WARKS
CSZ	11	Silver Buttonwood		Yes	MIN 24" HT, 24" SPRD, @ 24" D 0
PD	20	Dwarf Podocarpus		No	MIN 24" HT, 16" SPRD, @ 24" D 0
GROUND COVERS	<u>OTY</u>	COMMON NAME Evergreen Grant Lilyturf	BOTANICAL NAME Limpe mustain Every een Giant	NO NO	18 HJ. 18 SPRD, @ 18 D C



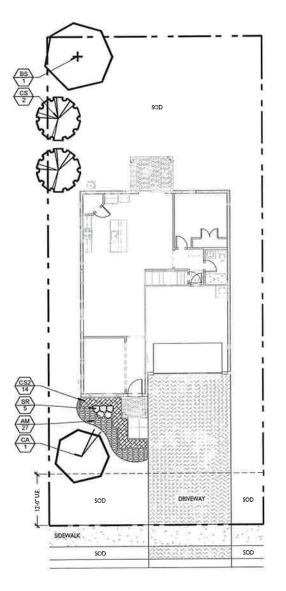
TYPICAL LANDSCAPE - MERRITT MODEL

PERVIOUS AREA: 2,758 SQ FT - 48% OF LOT AREA IMPERVIOUS AREA: 2,942 SQ FT - 52% OF LOT AREA

LANDSCAPE REQUIREME	NTS	
INTERIOR LANDSCAPE	REQUIRED	PROVIDED
MIN I TREE AND 3 SHRUBS PER 1,500 SQ FT OF LOT AREA	LOT AREA = \$,700 SQ FT 5,700 SQ FT / 1,500 = 4 TREES 5,700 SQ FT / 1,500 × 3 = 12 SHRUBS	4 TREES PROVIDED 24 SHRUBS PROVIDED

PLANT SCHEDULE MERRITT

REES CA	<u>QTY</u> 1 3	COMMON NAME Autograph Tree Dahoon Holly	BOTANICAL NAME Clusia rosea Ilex cassine	NATIVE Yes Yes	REMARKS MIN 12 HT, 2" DBH MIN 5" SPRD MIN 12" HT, 2" DBH MIN 5" SPRD
SHRUB AREAS CM2 CS2 PD	<u>QTY</u> 7 7 10	COMMON NAME Magnificent Croton Silver Buttorwood Dwarf Podocarpus	BOTANICAL NAME Codiaeum variegatum Magnificent Conocarpus erectus scriceus Podocarpus macrophyllus 'Dwarf Pringles'	NATIVE No Yes No	REMARKS MIN 24" HT, 24" SPRD @ 24" O C MIN 24" HT, 24" SPRD @ 24" O C MIN 24" HT, 18" SPRD @ 24" O C
SROUND COVERS SM	11 23	COMMON NAME Fortal Fern Evergreen Guirt Lilyturf	Attending deed one 'Myerse' Lingse mustain Every een Giant	NATIVE No No	REMARKS 18" HT, 18" SPRD, @ 18" O C 18" HT, 18" SPRD, @ 18" O C



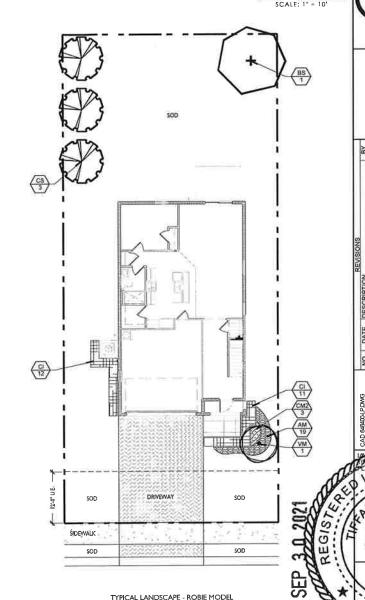
TYPICAL LANDSCAPE - PARKER MODEL

PERVIOUS AREA: 3,307 SQ FT - 58% OF LOT AREA IMPERVIOUS AREA: 2,393 SQ FT - 42% OF LOT AREA

INTERIOR LANDSCAPE	REQUIRED	PROVIDED	
MIN 1 TREE AND 3 SHRUBS PER 1,500 SQ FT OF LOT AREA	LOT AREA = 5,700 SQ FT 5,700 SQ FT / 1,500 = 4 TREES 5,700 SQ FT / 1,500 × J = 12 SHRUBS	4 TREES PROVIDED 19 SHRUBS PROVIDED	

PLANT SCHEDULE PARKER

TOTTO	OTV	COMMON NAME	BOTANICAL NAME	NATIVE	REMARKS
BS BS	OTY 1	Gumba Limbo	Gorsera simaratsa	Yes	MIN 12 HT, 2" DBH, MIN 5" SPRD
CA	1	Autograph Tree	Clusia rosea	Yes	MIN 12 HT 2" DBH MIN 5" SPRD
CS	2	Silver Buttoriwood	Conocarpus eredius senceus	Yes	MIN 12 HT 2' DBH MIN 5 SPRD
SHRUBS SR	QTY 5	COMMON NAME Bird Of Paradise	BOTANICAL NAME Sovitara reginari	NATIVE No	REMARKS MIN 36" HT, 24" SPRD
SHRUB AREAS CS2	OTY 14	COMMON NAME Silver Buttonwood	BOTANICAL HAME Corecorpus erectiva senceus	NATIVE Yes	REMARKS MIN 24" HT 24" SPRD @ 24" O C.
GROUND COVERS	<u>QTY</u> 27	COMMON NAME Foxtall Fem	Appropris deservos Myersin	NATIVE No	REMARKS 18" HT, 18" SPRD, @ 18" O C



TYPICAL LANDSCAPE - ROBIE MODEL PERVIOUS AREA: 3,597 SQ FT - 63% OF LOT AREA IMPERVIOUS AREA: 2,103 SQ FT - 37% OF LOT AREA

LANDSCAPE REQUIREME	NTS		
INTERIOR LANDSCAPE	REQUIRED	PROVIDED	
HIN I TREE AND 3 SHRUES PER 1,500 SQ FT OF LOT AREA	LOT AREA = \$,700 SQ FT \$,700 SQ FT / 1,500 = 4 TREES \$,700 SQ FT / 1,500 × 3 = 12 SHRUBS	4 TREES PROVIDED 26 SHRUBS PROVIDED	

PLANT SCHEDULE ROBIE

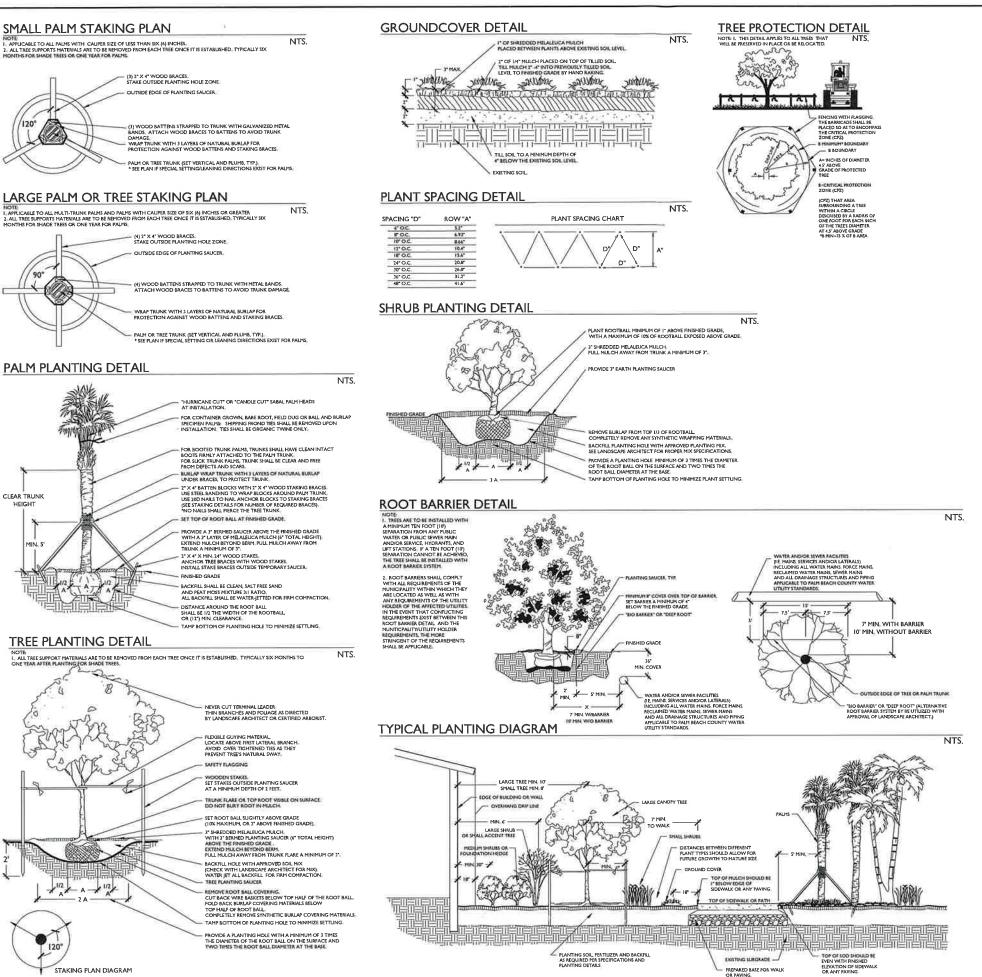
INTERIOR	_	QUIREMEN'	REQUIRED	PROVIDE	D D	၂ တ
HIN I TREE AND	EE AND 3 BHRUBS SQ FT OF LOT AREA		OT AREA = \$.700 SQ FT ,700 SQ FT / 1,500 = 4 TREES ,700 SQ FT / 1,500 × 3 = 12 SHRUBS	4 TREES PRO 26 SHRUBS	DVIDED	SPRIN
PLANT S	CHI	EDULE	ROBIE			UNSET
REES S S M	01Y 1 3	Gumbo Limbo Silver Buttoriwo Montgomery Pa	d Conocarpus ereclus senceus	*NATIVE Yes Yes No	REMARKS MIN 12 HT, 2" DBH, MIN 5" SPRD MIN 12" HT, 2" DBH, MIN 5" SPRD MIN 12" CLEAR TRUNK	S
HRUB AREAS	<u>QTY</u> 23	COMMON NAM Cost Plum	BOTANICAL HAME Chrysopalanus soos	NATIVE Yes	REMARKS MIN 24" HT, 24" SPRD, @ 24" D.G.	
•	3	Magnificent Cro	on Codiaeum variegatum Magnificent	No	MIN 24" HT, 24" SPRO. @ 24" OC RECEIVED L	L.
M2						

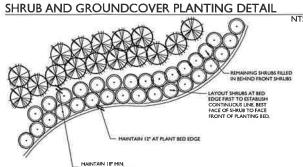
SHEET:

LA6667274

FLORIDA

LP-1.03





LANDSCAPE NOTES:

I. STRUCTURAL ELEMENTS AND HARDSCAPE FEATURES INDICATED ON LANDSCAPE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY, LANDSCAPE PLANS ARE TO BE UTILIZED FOR LOCATION OF LUNIDED PLANT MATERIAL ONLY. LANDSCAPE PLANS SHOULD NOT BE UTILIZED FOR STAKING AND LAYOUT OR LOCATION OF ANY STRUCTURAL SITE FEATURES INCLUDING BUT NOT LIMITED TO: BUILDINGS, SIGNAGE, PATHWAYS, EASEMENTS, BERMS, WALL, FENCES, UTILITIES OR ROADWAYS.

2. CONTRACTOR SHALL ACQUIRE ALL APPLICABLE FEDERAL STATE LOCAL JURISDICTIONAL OR UTILITY COMPANY PERMITS REQUIRED PRIOR TO REMOVAL RELOCATION, AND/OR INSTALLATION OF LANDSCAPE MATERIALS INDICATED WITHIN PLAN DOCUMENTS, THE CONTRACTOR SHALL HAVE PERMITS "IN HAND" PRIOR TO STARTING WORK. LANDSCAPE ARCHITECT SHALL BEAR NO RESPONSIBILITY FOR WORK PERFORMED WITHOUT PERMITTED DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES TO THE WORK, AT NO ADDITIONAL COST TO THE

OWNER, AS A RESULT OF UNAUTHORIZED WORK PRIOR TO RECEPT OF PERMIT. B. TREES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY, TREE SPACING IS BASED ON DESIGN 3. TREES SHOWN ON THIS PLAN ARE FOR GRAPHIC REPRESENTATION ONLY. TREE SPACING IS BASED ON DESIGN REQUIREMENTS AND THE TREES SHOWN ON THESE PLANS ATTEMPT TO ACCOMPLISH THAT SPACING WHILE MAINTAINING THE REQUIRED SETBACKS FROM UTILITIES. IN THE EVENT OF A COMPLICT, AFFECTED PLANT MATERIAL SHALL BE FIBLD ADJUSTED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT TO AVOID CONFLICTS WITH THE WITH EXISTING AND PROPOSED UTILITIES. LIGHT POLES, DRAINAGE STRUCTURES OR LINES, LAKE MAINTENANCE EASEMENTS OR OTHER AFFECTED STREE FEATURES.

4. ANY PLANTING WITHIN THE SIGHT TRIANGLES SHALL PROVIDE UNOBSTRUCTED VIEWS AT A LEVEL BETWEEN 30° AND # ABOVE THE PAVEMENT.

5. ALL UTILITY BOXES TRUCTURES TO BE SCREENED ON 3 SIDES W/ APPROVED PLANTING MATERIAL.

6. IRRIGATION IS REQUIRED PROVIDING 100% COVERAGE WITH A MAXIMUM OF 50% OVERLAP, AN AUTOMATIC RAIN SENSOR MUST BE INCLUDED.

7. ALL PLANT MATERIAL TO BE INSTALLED SHALL CONFORM TO FLORIDA POWER AND LIGHT'S (FPLS) RIGHT TREE RIGHT PLACE GUIDELINS.

8. IN CASE OF DISCREPANCIES PLANS TAKE PRECEDENCE OVER PLANT LIST.

9. LANDSCAPE CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ALL QUANTITIES PRIOR TO BIDDING.

10. REMOVAL OF EXISTING VEGETATION IS RESPONSIBILITY OF LANDSCAPE CONTRACTOR.

II. RELOCATION OF EXISTING VEGETATION IS RESPONSIBILITY OF LANDSCAPE CONTRACTOR. REFER TO SPECIFICATIONS FOR RELOCATION INSTRUCTIONS.

12. ALL PLANT MATERIAL TO BE FLORIDA GRADE #1 AT TIME OF INSTALLATION UNLESS OTHERWISE NOTED

IN DELYM LA6667274 STATE OF FLORIDA

NO. DATE DES 1 07.09.2021RES 2 10.01.2021RES 8 4 5 5 LANDSCATE ARCHITECT OF FROM TIFFANY D MAY, PLA FL # LA6667274 UH ANDREW

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ANING & ENGINEERING

SHEET: LP-3.01

Landscape Planting - Part I. General

- recription of Work
 Provide all exterior planting as shown on the drawings or inferable therefrom and/or as specified in accordance with the requirements of the Contract Documents. Landscape plans provided indicate the proposed location of living plant material only. Structural elements and hardscape features indicated on the landscape plans are for information purposes only. Landscape plans are not to be utilized for staking and layout or location of any structural site features including but not limited to, buildings, signage,
- ements, utilities or roadways, autonic form of the execution and completion of planting as indicated on the prepared drawings and specified herein, administration include standards recessary for and incidental to the execution and completion of planting as indicated on the prepared drawings and specified herein, lederal, state and local permits shall be attained price to the removal, relocation, or installation of plant materials indicated within the plan documents, sixing planting, and other specified vegetation, site features and improvements, structures, and utilities in andior on submitted drawings. Removal or destruction of existing plantings is prohibited unless specifically authorized by the owner, and with permit as
- Appreciates Standards American Standards for Tree Care Operations, ANSI A300, American National Standards Institute, 11 West 42nd Street, New York, N.Y. 10036, A.American Standards for Norsery Stock, ANSI 260.1. American Nursery and Landscape Association, 1250 Eye Street, NW, Suite 500, Washington, D.C. 20005, C. Hortus Third, The Staff of the L.H. Balley Hortorium, 1976, MacMillar Publishing Co., New York, Province Care Street, NW, Suite 500, Washington, D.C. 20005, D. Florida Department of Agriculture "Grades and Standards for Nursery Plants", most recent addition,

- E. National Arborist Association- Pruning Standards for Shade Trees F. All standerds shall include the latest additions and amendments as of the date of advertisement for bids

- II. Luaniscators:
 A Landscape planting and related work shall be performed by a firm with a minimum of five years experience specializing in this type of work. All contractors and their sub-contractors who will be performing any landscape work included in this section of the specification shall be approved by the landscape architect.

 B. Landscape Contractor shall be idensed and shall carry any necessary incumance and shall protect the Landscape Architect and Owner against all liabilities, claims or domands for injuries or damage to any person or property growing out of the performance of the work under this contract. All workers shall be cowered by Workman's Compensation Insurance.

 7. Requirements of Regulatory Agencies

 A. Certificates of inspection shall accompany the invoice for each shipment of plants as may be required by law for transportation. File certificates with the landscape architect pion to acceptance of the material. Inspection by federal or state authorities at place of growth does not preclude rejection of the plants at the site.

 Submittate
- Submitteris

 A Manufacturer's Data: Submit copies of the manufacturer's and/or source data for all materials specified, including soils, soil amendments and fertilizer materials

 Comply
- A Manufacturer's Data: Submit copies of the manufacturer's end/or source data for all materials specified, including soils, soil amendments and trenizer materials.

 B. Samples: Submit samples of the landscape materials.

 B. Samples: Submit samples of all topsoil, soil mines, mutchos, and organic materials. Samples shall weight 18 (2 lb) and be packaged in plastic bags. Samples shall be typical of the lot of material to be delivered to the use and provide an accurate indication of color, texture, and organic makeup of the material.

 C. Nursery Sources: Submit a fixt of all nurseries that will supply plants, along with a list of the plants they will provide and the location of the nursery.

 D. Soil Test Submit soil test analysis report for each sample of topsoil and planting mix from a soil testing laboratory approved by the landscape architect.

 1. Provide a particle size analysis, including the following gradient of mixeral content:

- Size in mm
 - USDA Designation Gravel Very Course Sand
- Provide a chemical analysis, including the following: a, pH and buffer pH

- .pH and buffer pH
 . Percentage of organic content by oven-dried weight.
 . Nutrient levels by parts per million, including phosphorus, potassium magnesium, manganese, iron, zinc, and calcium. Nutrient test shall include the testing laboratory recommendations, fee supplemental additions to the soil based on the requirements of horticultural plants.
- Soluble salt by electrical conductivity of a 1:2, soil: water, sample measured in millimho per cm ange capacity (CEC).
- vision expension when the manufacturers particle size analysis, and the pH analysis and provide a description and source location for the content material of all organic
- materials.

 Maintenance Instructions: Prior to the end of maintenance period, Landscape Contractor shall furnish three copies of written maintenance instructions to the Landscape
 Architect for transmittal to the Owner for maintenance and care of installed plants through their full growing season.
- II. Usin'ty Verification
 A. The contracter shall contact the local utility companies for verification of the location of all underground utility lines in the area of the work. The contractor shall be responsible for all damage resulting from neglect or failure to comply with this requirement.
 Part 2. Materials

- Plants
 A Plants shall be true to species and variety specified and nursery-grown in accordance with good hortcultural practices under climatic conditions similar to those in the locality
 of the project for at least two years. They shall have been freshly dug

 1. All plant names and descriptions shall be as defined in Hortus Third.

 2. All plants shall be grown and harvested in accordance with the American Standard for Nursery Stock and Florida Department of Agriculture Grades and Standards for
 Nursery Plants.
- nts.

 oved by the landscape architect, plants shall have been grown at a tatitude not more than 325 km (200 miles) north or south of the latitude of the project
- Unless the provinance of the plant can be documented to be compatible with the latitude and cold hardness zone of the planting location.

 B. Unless specifically noted, all plants shall be exceptionally heavy, symmetrical, and so trained or favored in development and appearance as to be unquestionably and outstandingly superior in form, compactness, and symmetry. They shall be sound, healthy, vigorous, well branched, and densely follated when in loaf, free of disease insects, oggs, or larvee, and shall have healthy, well-developed root systems. They shall be free from physical damage or other conditions that would prevent vigorous.

- growth.

 1. Trees with multiple leaders, unless specified, will be rejected. Trees with a damaged or crooked leader, bark abraxions, sunscald, disfiguring knots, insect damage, or cuts of limbs over 20 mm (24 in.) in diameter that are not completely closed will be rejected.

 C. Plants shall conform to the measurements specified, except that plants larger than those specified may be used if approved by the landscape architect. Use of larger plants shall not increase the contract price. If larger plants are approved, the root ball shall be increased in proposition to the size of the plant.

 1. Caliper measurements shall be taken on the trunk 150 mm (6 in.) above the natural ground line for the or and including 100 mm (4 in.) in caliper, and 300 mm (12 in.) are provided to the contract price. The plants are provided to the plant and not from branch to the trunk 150 mm (6 in.) above the natural ground line for these over 100 mm (4 in.) in caliper, Height and spread dimensions specified refer to the main body of the plant and not from branch to the trunk 150 mm (6 in.) above the natural ground line for these shall be less than the mentions are in the morning plants. In a range of sizes given, no plant shall be less than the minimum size is and no less than 50 percent of the plants shall be as farge as the maximum size specified. Measurements specified are minimum sizes acceptable after pruning, where pruning is required. Plants that meet measurements but do not possesses a standard relationship between height and specified to within that a ranger size of the plants shall be reported in particular and plants are provided.
- arrials will not be permitted unjoes authorized in writing by the landscape architect. If proof is submitted in writing that a plant specified is not
- O. Subscitutions of plant materials with one be permissed with a mineral and a subscitution of the confirmation will be given to the nearest available size or similar variety, with a corresponding adjustment of the confirmat price.

 E. The plant schedule provided at the end of this section, or on the drawing, is for the contractor's information only, and no guarantee is expressed or implied that quantities therein are correct or that the list is complete. The contractor shall ensure that all plant materials shown on the wings are included in his or her bid.

 F. As plants shall be tabeled by plant name. Labels shall be attached securely to all plants, bundles, and containers of plant materials when delivered. Plant labels shall be urable and legible, with information given in weath
- Selection and Tagging

 1. Plants shall be subject to inspection for conformity to specification requirements and approval by the landscape architect at their place of growth and upon delivery. Such approval shall not impair the right of inspection and rejection during progress of the work.

 2. A written request for the inspection of plant material at their place of growth shall be submitted to the landscape architect at least ten calendar days prior to digging. This request that state the place of growth and the quantity of plants to be inspected. The landscape architect may refuse inspection at this time if, in his or her judgment, sufficient quantities of plants are not available for inspection or landscape architect deems inspection is not required.

 3. All field grown deciduous trees shall be marked to indicate the trees north crientation in the nursery. Place a 1-in, diameter spot of white paint onto the north side of the trunk within the bottom 12 inches of the trunk.
- e antis, if specified, are to be applied to plants in full leaf immediately before digging or as required by the landscape architect. Anti-desiccants are to be sprayed
- Anti-desicoants, it specimed, are to be applied to praints in full real immediately device digging or as required by the landscape of control of the control
- container Plants

 1. Plants grown in containers shall be of appropriate size for the container as specified in the most recent edition of the Florida Department of Agriculture Grades and Standards for Nursery. Plants and be free of circling roots on the exterior and interior of the root ball.

 2. Container plants shall have been grown in the container long enough to have established roots throughout the growing medium.

- Bareroot and Collected Plants

 1. Plants designated as bareroot or collected plants shall conform to the American Standard for Nursery Stock.

 2. Bareroot material shall not be dup or installed after bud break or before dermancy.

 3. Collected plant material that has not been taken from active nursery operations shall be dup with a root ball spread at least 1/3 greater than nursery grown plants. When specified or approved, shall be in good health, free from disease, insector were diinfeatation and shall not be planted before inspection and acceptance at the site.

 Testing may be required at the discretion of the Landscape Architect and/or the Owner and shall be provided at no additional cost.

 Specimen Material: Plant material specified as specimens are to be approved by the Landscape Architect before being brought to the site. Unless otherwise noted on the drawings, these plants shall be Florida Fancy.

Coconut Palms shall be grown from a certified seed.

- 2. All palm species except Sabal palmetto shall have roots adequately wrapped before transporting.
 3. Sabal palms shall have a huncane cut. Sabal palms shall be installed on site at the earliest opportunity in the construction process. All Sabal palms shall be from Palm
- Beach County or other sandy salls. All Sabal palms shall be Florida Fancy.
 4. For booted trunk palms, trunks shall have clean intact boots firmly attached to the palm trunk. For slick trunk palms, trunk shall be clear and free from defect and scars. 5. The Contractor shall treat all palms as required to prevent infestation by the pale
- ted
 1. Sod shall be graded #1 or better. Sod shall be loarn or muck grown with a firm, full texture and good root development. Sod shall be thick, healthy and free from defects and debris including but not limited to dead thatch, insects, fungus, diseases and contamination by weeds, other grass varieties or objectionable plant material.
 2. Sod shall be sufficiently thick to insure a dense stand of live grass. Sod shall be live, fresh, and uninjured at the time of planting. Plant sod within 48 hours after houseafter.
- 3. Sed area shall be all areas not otherwise identified and shall include the area beyond the property line to the edge of pavement and/or edge of water, immediately after harvesting plants, protect from drying and damage until shipped and delivered to the planting site. Rootballs shall be checked regularly and watered sufficiently to maintain root viability.

- Immediately after harvesting praise, protect rim drying and damage unit or representations to the part of the protection of protecti

- Q. Mechanized Tree Spade Requirements
- nechanized live opasion requirements.

 Trees may be moved and planted with an approved mechanical tree spade. The tree spade shall move trees limited to the maximum size allowed for a similar B&B. diarmeter according to the American Standard for Nursery Stock or the manufacturer's maximum size recommendation for the tree spade being used, ere is smaller. The machine shall be approved by the landscape architect prior to use. Trees shall be planted at the designated locations in the manner si

A. Mulch: Except as otherwise specified, mulch shall be shredded M ica mutch - grade "A". Alt Metaleuca mutch shall be made entirely from the wood and bark of

- Melaleuca quinquinerva tree, It shall not contain more than 10% bark (by volume), Shreds and chips shall not be larger the ¾" diameter and 1½" in length, Mulch
- be free of weeds, seeds, and any other organic or inorganic material other than Melaleuca wood and bark. It shall not contain stones or other foreign material that will prevent its eventual decay. This shall be applied to all planted areas where indicated so that, after installation, the mulch thickness will not be less than 3". Submit
- ample for approval.
- worksole consulon the from lumps.

 C. Gravel Mulch: Use only where specifically indicated on the plans of the size and type shown. Unless otherwise specified it shall be water-worn, hard durable gravel, washed free of loam, sand, clay and other foreign substances. It shall be a minimum of 3' deep and shall be contained with edging or other approved gravel stop as indicated on the plans. It shall be a maximum of 1 1/2', a minimum of 3/4' and of a readily-available natural gravel color range. Provide geotextile filter fabric below aggregate rock.
- Submit sample for approval.

 A Root Barrier Where specified, root barriers shall be installed on all tree and palm material in accordance with the root barrier detail provided within the plan drawings.

 Root barriers shall comply with all requirements of the municipality within which they are located as well as with any utility holder requirements of any affected utilities. In the event that conflicting requirements exist between the root barrier detail provided within the plan documents and the municipality/Asility holder requirements, the more strippent of the requirements shall be applicable.

 Finanter Edging: Use only where specifically indicated on plans. Edging shall be the color black.

 Anti-desiconal shall be on emulsion specifically manufactured for agricultural size, which provides a protective film over plant surfaces. Anti-desiconals shall be delivered in containers of the manufacturer and shall be mixed according to the manufacturer's directions, Submit manufacturer literature for approval.

III. Materials for Soil Amendment

- A Pine Bark Horticultural-grade milled pine bark, with 80 percent of the material by volume sized between 0.1 and 15.0 mm Pine bark shall be aged sufficiently to break down all woody material. Pine bark shall be screened
- 2 pH shall range between 4 and 7.0
- 3. Submit manufacturer literature for approval B. Organic Matter: Leaf matter and yard waste composted sufficiently to break down all woody fibers, seeds, and leaf structures, and free of toxic and nonorganic matter.
- Organic matter shall be commercially prepared compost. Submit 0.5 kg (1 lb) sample and suppliers literature for approval.

 C. Course Sand: Course concrete sand, ASTM C-33 Fine Aggregate, with a Fines Modulus Index of 2.75 or greater.
- 1. Sands shall be clean, sharp, natural sands free of limestone, shale and slate particles

de the following particle size distribut	OII.
Sieve	Percentago Passe
3/8 in (9.5 mm)	100
No. 4 (4.75 mm)	95-100
No. 8 (2.36 mm)	80-100
No. 16 (1.18 mm)	50-85
No. 30 (0.60 mm)	25-6D
No. 50 (0.30 mm)	10-30
No. 100 (0.15 mm)	2-10

- D. Lime: shall be ground, palletized, or pulverized lime manufactured to meet agricultural standards and contain a maximum of 60 percent oxide (i.e. calcium oxide plus magnesium oxide). Submit manufacturer literature for approval.

 E. Sulfur: shall be flowers of sulfur, pelletized or granular sulfur, or iron sulfate. Submit manufacturer literature for approval.
- Fertilizer: Agricultural fertilizer of a formula indicated by the soil test. Fertilizers shall be organic, slow-release compositions whenever applicable. Submit man
- IV. Planting Mix

A. Planting Mix

- g mix I. Planting Mix for Trees, Shrubs, Groundcovers and vines: Check with landscape architect for appropriate mixture
- 2. Planting Mix for Palms: Mixture of course sand and peat mixed to the following proportion
- Percent by Volume
- Planting mix shall be thoroughly mixed, screened, and shredded.
- Prior to beginning the mixing process, submit a 1-kg (2-b) sample of the proposed mix with soil test results that indicate the mix ratio and the results achier. During the mixing process but prior to installing the mix, submit a 1-kg (2-b) sample for each 200 cubic metions (250 cubic) parties) of planting mix, taken ran finished soil mix, with soil test results for approval. In the event that the test results do not meet the resulted said submitted. The submitted is the size distribution, remain and resultmits.
- soil mix, with soil test results for approval. In the event that the test results do not meet the required particle size distribution, remix and resultmit a revised
- E. Make all amendments of lime/sulfur and fertilizer indicated by the soil test results at the time of mixing.
- All mixing shall take place in the contractors yard, using commercial mixing equipment sufficient to thoroughly mix all components un
- G. Protect the planting mix from erosion prior to installation

Part 3. Execution

- I Excavation of Planted Areas A. Locations for plants and/or outlines of areas to be planted are to be staked out at the site, Locate and mark all subsurface utility lines, Approval of the stak andscape architect is required before excavation begins.
- landscape architect is required before excavation begins.

 B. Tree, thrub, and groundscewer beds are to be excavated to the depth and widths indicated on the landscape plan detail drawings. If the planting area under any tree is initially dug too deep, the soil added to bring it up to the correct level should be thoroughly tumped.

 1. The sides of the excavation of all planting areas shall be sloped at a 45 degrees. The bittern of all beds shall slope parallel to the proposed grades or toward any
- urface drain lines within the planting bed. The bottom of the planting bed directly under any tree shall be horizontal such that the bee sits plumb. 2. Maintain all required angles of repose of the adjacent materials as shown on the drawings. Do not excavate compacted subgrades of adjacent pavement of
- 3. Subgrade soils shall be separated from the topsoil, removed from the area, and not used as backfill in any planted or lawn area. Excavations shall not be left uncovered or unprotected overnight.

 C. For trees and shrubs planted in individual holes in areas of good soil that is to remain in place and/or to receive amendment in the top 150-mm (6 in.) layer, excavate
- ole to the depth of the root ball and to widths shown on the drawing. Slope the sides of the excavation at a 45 degree angle up and away from the bottom of the
- 1. In greas of slowly draining soils, the root ball may be set up to 75 mm (3 in.) or 1/8 of the depth of the root ball above the adjacent soil level.
- 2. Save the existing soil to be used as backfill around the tree.
- 2. Save the existing soin to elected as backing about the recording to the second soil to elect a second soil to elect a second soil to executation shall be measured at the center of the hole and the excavation dug as shown on the drawings.

 Dehimental soil conditions: The landscape architect is to be notified, in writing, of soil conditions encountered, including poor drainage, that the contractor considers detrimental to the growth of plant material. When detrimental conditions are uncovered, planting shall be discontinued until instructions to resolve the conditions are eceived from the landscape architect.
- E Obstructions: If rock, underground construction work, utilities, tree roots, or other obstructions are encountered in the excavation of planting areas, alte
- II. Installation of Planting Mix

A. Prior to the installation of the planting mix, install subsurface drains, irrigation main lines, lateral lines, and irrigation risers shown on the drav

- The landscape architect shall review the preparation of subgrades prior to the installation of planting mix.
- Do not proceed with the installation of planting mix until all utility work in the area has been installed.
 Description of planting mix until all utility work in the area has been installed.
 Description of planting mix until all utilities from damage or staining by the soil. Use 12-mm (1/2 in.) plywood and/or plastic sheeting as directed to cover existing
- metal, masonry work, and other items as directed during the progress of the work
- Clean up any soil or dirt spilled on any paved surface at the end of each working day.
 Any damage to the paving or architectural work caused by the soils installation contractor shall be repaired by the general contractor at the soils installation
- contractors expense.

 Fill the subsoil into the bottom layer of topsoil or planting mix.

 Loosen the soil of the subgrade to a depth of S0 to 75 mm (2 to 3 in.) with a rotofiller or other suitable deal.

 Thoroughly 2. Spread a layer of the specified topsoil or planting mix 50 mm (2 in.) deep over the subgrade. Thoroughly till the planting mix and the subgrade togeth
 - ediately install the remaining topsoil or planting mix in accordance with the following specifications. Protect the tilled area from traffic, DO NOT allow the tilled
- subgrade to become compacted.

 4. In the event that the tilled area becomes compacted, till the area again prior to installing the planting mix.

 F. Install the remaining topscill or planting mix in 200- to 250-mm (8- to 10-in.) lifts to the depths and shown on the drawing details. The depths and grades shown on the drawings are the final grades after soil settlement and shrinkage of the organic material. The contractor shall install the soil at a higher level to anticipate this
- reduction of soil volume, depending on predicted settling properties for each type of soil, Dubbon or son volunte, depending on proceded setting properties for each type of som.

 Phase the installation of the soil such that equipment does not have to travel over already-installed topsoil or planting mixes.

 Compact each lift sufficiently to reduce settling but not enough the prevent the movement of water and feeder roots through the soil. The soil in each lift should feel time to the foot in all areas and make only sight heet prints. Overcompaction shall be determined by the following field percelation test.

 a. Dig a hole 250 mm (10 in.) in diameter and 250 mm (10 in.) deep.
- b. Fill the hole with water and let it drain completely. Immediately refill the hole with water, and measure the rate of fall in the water level
- o. The landscape architect shall determine the need for, and the number and location of perception tests based on observed field conditions of the soil.

 Although the description of the soil becomes the need for, and the number and location of perceptation tests based on observed field conditions of the soil.

 Maintain monitaire conditions within the soils during installation to allow for satisfactory compaction. Suspend installation operations if the soil becomes wet. Do not
- place soils on wat subgrade
 4. Provide adequate equipment to achieve consistent and uniform compaction of the soils. Use the smallest equipment that can reas
- spreading and compaction.

 5. Add lime, sulfur, fertilizer, and other amendments during soil installation. Spread the amendments over the top layer of soil and till into the top 100 mm (4 in.) of soil.

 Soil amendments may be added at the same time that organic matter, when required, is added to the top layer of soil.

 6. Protect soil from overcompaction after placement. An area that becomes overcompacted ethal be tilled to a depth of 125 mm (6 in.). Uneven or settled areas shall

- III. Fine Grading

 A It shall be the responsibility of the Contractor to finish grade (min. 6" below adjacent F.F.E.). Finish grades in planting areas shall be one inch lower than adjacent powl and are to include 3" of mulching. New earthwork shall been smoothly into the existing earthwork and grades shall pitch evenly between spot grades. All planted are must pitch to drain at a minimum of 1/4" per foot. Any discrepancies not allowing this to occur shall be reported to the Landscape Architect prior to continuing work.

 B. Fill all dips and ferenove any bumps in the voreall plane of the stope.

 1. The tolerance for dips and bumps in shurly planting areas shall be a 12-mm (1/2 in.) deviation from the plane in 3,000 mm (10 ft).

 3. All fine grading shall be inspected and approved by the landscape architect prior to planting, molching, sodding, or seeding.

 C. Berming shall not be placed within 10" of any existing the ear own will be a diverse of the property.

- intenance easement. Berming shall not impede IV. Planting Operations
- A Plants shall be set on flat-tamped or unexcavated pads at the same relationship to finished grade as they were to the ground from which they were dug, unless otherwise noted on the strawings. Plants must be set plumb and braced in position until topcoll or planting mix has been placed and tamped around the base of the root ball. Improper compacting of the soil around the root ball may result in the tree settling or learning. Plants shall be set so that they will be at the same depth and so that the root ball does not shift or move laterally one year later. 1, Determine the elevation of the root flare and ensure that it is planted at grade. This may require that the tree be set higher than the grade in the nurser
- 2. If the root flare is less than 50 mm (2 in) below the soil level of the root ball, plant the tree the appropriate level above the grade to set the flare even with the grade. If the flare is more than 50 mm (2 in) at the center of the root ball the tree shall be rejected. B, Lift plants only from the bottom of the root balls or with belts or lifting harnesses of sufficient width not to damage the root balls. Do not lift trees by their trunk or use the
- trunk as a lever in positioning or moving the tree in the planting area C.Remove plantic, paper, or fiber pots from combinenized plant material. Pull roots out of the root mat. Loosen the polling medium and shake away from the root mat. Immediately after removing the container, install the plant such that the roots do not dry out. Pack planting mix around the exposed toots while planting.
- D. The roots of bare-root bees shall have the roots spread to approximate the natural position of the roots of bare-root bees shall have the roots spread to approximate the natural position of the roots and shall be centered in the planting sol backfill shall be worked firmly into and around the roots, with care taken to fill in completely with no air pockets.
- E. Cut ropes or strings from the top of shrub root balls and trees smaller than 3 in. caliper after plant has been set. Remove buriap or cloth wrapping and any wire baskets from around top half of balls. Do not turn under and bury portions of buriap at top of ball.
- 1. Do not immediately remove the ropes and burlap from trees larger than 3 in. callper, Return to each tree three months after planting and cut all ropes around the trunks and tops of the root balls of these trees.
- 2 Completely remove any waternmot or water-repallant strings or wrappings from the root ball and trunk before backfilling.
- F. Set balled and burlapped trees in the hole with the north marker facing north unless otherwise approved by the landscape architect.
- G.Place native soil, topsoil, or planting mix into the area around the tree, tamping lightly to reduce settlement. 1. For plants planted in individual holes in existing soil, add any required soil amendments to the soils, as the material is being backfilled around the plant. Ensure that the amendments are thoroughly mixed into the backfill.
- 2. For plants planted in large beds of prepared soil, add soil amendments during the soil installation process
- 3 Ensure that the backfill immediately around the base of the root ball is tamped with foot pressure sufficient to prevent the root ball from shifting or leaning H. Solid sod shall be laid with closely abutting joints with a tamped or rolled, even surface. Stagger strips to offset joints in adjacent courses. Bring the sod edge in a next clean manner to the edge of all paving and shrub areas. Sod along slopes shall be pegged to hold sod in place along slopes or banks a wood peg acceptable to the Landscape Architechted shall be used at no additional cost to the Owner. If, in the opinion of the Landscape Architecht pressing is necessary after colling, clean sand will
- clean manner to the edge or an yearny are made and additional cost to the Owner. If, in the openium was a landscape Architect shall be used at no additional charge, be evenly applied over the entire surface and thoroughly washed in without additional charge, be evenly applied over the entire surface and thoroughly washed in without additional charge. In Thoroughly water all plants immediately after planting. Apply water by hose directly to the root ball and the adjacent soil.
- J. Remove all tags, labels, strings, etc., from all plants.
- K. Remove any excess soil, debris, and planting material from the job site at the end of each workday
- L. Form watering saucers 100 mm (4 in.) high immediately outside the area of the root ball of each tree as indicated on the drawings
- V. Relocation of Existing Material:
- A. Landscape Contractor shall root prune trees which are to be relocated in accordance with approved horticultural practices and the following procedures 1. Select a healthy tree
- Selectively trim the canopy removing dead limbs, cross branching over crowned areas, and lower undesirable limbs. Fertilize and water trees before pruning A Root prime 50% of the root system approximately 15°-2 deep (depending upon species and size). This is done by hand with sharp hand lools or a root pruning saw. The diameter of the root ball to be pruned is 8-12 inches per overy one inch of diameter at breast height of the tree.
- 4 Back fill the existing soil with peat moss to stimulate new root growth of the pruned roots
- 5. Water in thoroughly and treat with a mycorrhizae and a low nitrogen fertilizer (so not to burn the pruned roots). Brace trees if deemed necessary s. The root pruned tree should be watered every day (especially during warm months of the season), the equivalent of 5 gallons for every DBH of tree per day,
- 7. Root pruned trees should be let to stand for a minimum of 6 weeks for trees less than 8* DBH and as long as 3 months for larger specimens prior to transplanting 3. For best results and survivorship, new root growth should be evident on root pruned trees prior to transplanting.
- 9. Upon transplanting, water should be applied every day as outlined in step 6 for at least one year. VI. Staking and Guying
- A The Contractor shall stake all trees and palms in accordance with the tree and palm staking details provided within the plan drawings. Alternate methods of guying or staking may be employed with the prior approval of the Landscape Architect. B. The Contractor shall be responsible for the replacement or adjustment of all trees, palms or shrubs that fall or lean during the guarantee period. The Contractor shall be responsible for any damage caused by the falling or leaning of trees.
- C. Stakes and guys shall be installed immediately upon approval or planting, and shall be removed in accordance with the staking details provide within the plan drawings.

 Any line that is not stable at the end of the warranty period shall be rejected.

- VII. Pruning A Plants shall not be heavily pruned at the time of planting. Pruning is required at planting time to correct defects in the tree structure, including removal of injured branches, waterspecks, suckers, and interfering branches. Healthy lower branches and interior small twigs should not be removed Recept as necessary to clear walks and reads. In no case should more than one-quanter of the branching structure be removed. Recept the normal results are natural shape of the plant.
- B. All pruning shall be completed using clean, sharp tools. All cuts shall be clean and smooth, with the bark intact with no rough edges or team
- C. Pruning of large trees shall be done from a hydraulic man-lift such that it is not necessary to climb the tree
- A. All trees, palms, skrubs, and other plantings will be middled with mulch previously approved by the landscape architect. The mulch shall be a minimum 3' thick layer over all tree, shrub and ground cover planting areas, unless otherwise specified. All mulch layers shall be of the specified thickness at the time of the final acceptance of the work. Mulch must not be placed within 3 inches of the tunks of trees, palms or shrubs.
- B. Place mulch at least 3" in depth in a circle around all trees located in lawn areas. The diameter of the circle shall be 18" in diameter larger than the ball of the plant provided. Mulch must not be placed within 3 inches of the trunks of trees, palms or strubs IX. Maintenance of Trees, Shrubs, and Vines
- A Maintenance shall begin immediately after each plant is planted and continue until its acceptance has been confirmed by the landscape architect. B. Maintenance shall consist of pruning, watering, cultivating, weeding, mulching, fertilizing, tightening and repairing guys and stakes, resetting plants to proper grupping the position, restoring of the planting saucer, and furnishing and applying such sprays or other materials as necessary to keep plantings free of insects and d
- and in vigorous condition.

 C. Planting areas and plants shall be protected at all times against trespassing and damage of all kinds for the duration of the maintenance period. If a plant become damaged or injured, it shall be treated or replaced as directed by the landscape architect at no additional cost.

 D. Watering: Contractor shall irrigate as required to maintain vigorous and healthy tree growth. Overwatering or flooding shall not be allowed. The contractor shall adjust and use existing irrigation facilities, it available, and furnish any additional material, exciprement, or water to ensure adequate irrigation. Root balls of all talge shrubs shall be spot watered using handheld hoses during the first four months after planting, as required to ensure adequate water within the root ball.
- E. During periods of restricted water usage, all governmental regulations (permanent and temporary) shall be followed. The contractor may have to transport water or other sources, at no additional expense to the owner when irrigation systems are unavailable. F. Remove soil ridges from around watering basins prior to end of maintenance period, as directed by Landscap

- X. Accentance A. The landscape architect shall inspect all work for acceptance upon written request of the contractor. The request shall be received at least ton calendar days before the anticipated date of inspection
- B. Acceptance of plant material shall be for general conformance to specified size, character, and quality and shall not relieve the contractor of responsibility for full conformance to the contract documents, including correct species. C. Upon completion and re-inspection of all repairs or renewals necessary in the judgment of the landscape architect, the landscape architect shall certify in writing that the work has been accepted,
- XI. Acceptance in Part A. Work may be accepted in parts when the tendscape architect and contractor deem that practice to be in their mutual interest. Approval must be given in writing by the landscape architect to the contractor ventying that the work is to be completed in parts. Acceptance of work in parts shall not waive any other provision of this contract
- III. Guarantee Period and Replacements A. The guarantee period for trees and shrubs shall begin at the date of acceptance.
- B. The contractor shall guarantee all plant material to be in healthy and flourishing condition for a period of one year from the date of acceptance C. When work is accepted in parts, the guarantee periods extend from each of the partial acceptances to the terminal date of the guarantee of the last acceptance. Thus, all guarantee periods terminate at one time.
- D. The contractor shall replace, without cost, as soon as weather conditions permit, and within a specified planting period, all plants determined by the landscape architect to be dead or in an unacceptable condition during and at the end of the guarantee period. To be considered acceptable, plants shall be free of dead or dying branches and branch tips and shall bear foliage of normal density, size, and color. Replacements shall closely match adjacent specimens of the same species. Replacements shall be subject to all requirements shall on this specification.
- E. The guarantee of all replacement plants shall extend for an additional period of one year from the date of their acceptance after replacement plants is not acceptable during or at the end of said extended guarantee period, the landscape architect may effect subsequent
- G.The contractor shall make periodic inspections, at no extra cost, during the guarantee period to determine what changes, if any, should be made in the maintenance program. If changes are recommended, they shall be submitted in writing to the landscape archibect Claims by the contractor that the owners maintenance practice of maintenance resulted in dead or dying plants will not be considered if such claims have not been documented by the contractor during the guarantee period.

E At the end of the guarantee, the contractor shall reset grades that have settled below the proposed grades on the drawings

XIII, Final Inspection and Final Acceptance At the end of the guarantee period and upon written request of the contractor, the landscape architect will inspect all guaranteed work for final received at least ten calendar days before the anticipated date for final inspection. Upon completion and re-inspection of all repairs or renewal landscape architect at that time, the landscape architect shall certify, in writing, that the project has received final acceptance.



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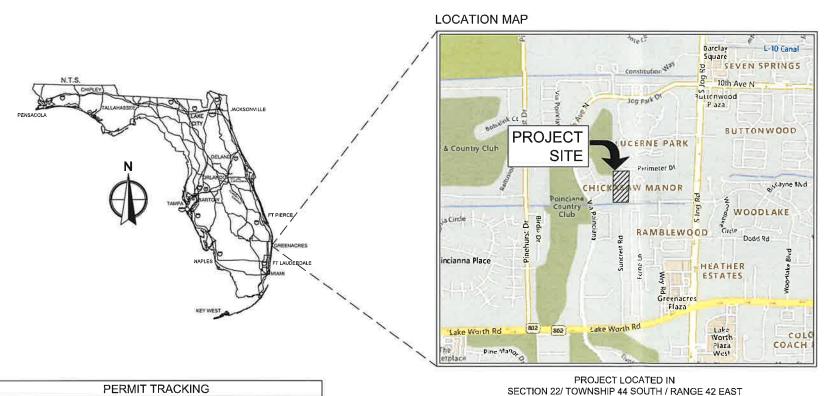
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SUNSET SPRINGS GREENACRES, FLORIDA

PRELIMINARY ENGINEERING PLANS

PREPARED FOR: D.R HORTON, INC. 6123 LYONS ROAD COCONUT CREEK, FL 33073





PERMIT TRACKING			
PERMITTING AGENCY	PERMIT NAME	PERMIT NUMBER	EXPIRATION DATE
LWDD		R1-21-0044	
CITY OF GREENACRES		SP-21-01	

VERTICAL DATUM: NORTH AMERICAN VERTICA DATUM OF 1988 (NAVD88)

HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983, FLORIDA STATE PLANES, EAST ZONE, U.S. FEET (NAD83)



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WGI.

2035 Vista Parkway, West Palm Beach, FL 3341 Phone No. 866 909 2220 www.wginc.com Cert No. 6091 - LB No. 7055

CONSULTANTS:

PROJECT TITLE

SUNSET SPRINGS 6645 CHICKASAW ROAD GREENACRES, FL 33467

ENGINEER OF RECORD TRAVIS D. DOUGLAS, PE PE# 88589



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TOTAL SHEETS

PLANNING & ENGINEERING-0

GENERAL NOTES

- REGULATIONS ALL CONSTRUCTION SHALL BE DONE IN A WORKMAN LIKE MANNER AND SHALL CONFORM TO ALL COUNTY, STATE AND FEDERAL REGULATIONS AND OR CODES INCLUDING BUT NOT LIMITED TO THE CURRENT PALM BEACH COUNTY AND FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) LATEST REGULATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES TO BEGIN WORK AND PAY ALL REQUIRED FEES ASSOCIATED WITH SAME.
- STANDARD DETAILS AND SPECIFICATIONS STATE, COUNTY AND CITY CONSTRUCTION DETAILS AND SPECIFICATIONS SHALL BE APPLIED TO THE APPROPRIATE AREAS OF THE PLANS, GENERALLY DIFFERENTIATED BY PROPERTY OWNERSHIP LINES OR INTENT OF THE DESIGN, ANY CONFLICTS BETWEEN GOVERNING STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- DATUM UNLESS OTHERWISE NOTED, ELEVATIONS SHOWN HEREON REFER TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), HORIZONTAL DATA SHOWN HEREON REFERS TO N.A.D., 83 FLORIDA STATE PLANE EAST ZONE, ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONSTRUCTION BEGINS OR
- CHANGES ALL CHANGES SHALL BE SUBMITTED IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION
- GUARANTEE THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR A PERIOD OF ONE YEAR FROM THE DATE OF PROJECT ACCEPTANCE, DURING WHICH ALL FAULTY CONSTRUCTION AND/OR MATERIAL SHALL BE REPLACED AT THE CONTRACTORS
- SHOP DRAWINGS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND PBCWUD APPROVAL, STRUCTURE SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- MAINTENANCE OF TRAFFIC (M.O.T.) UNLESS OTHERWISE PERMITTED, THE CONTRACTOR SHALL MAINTAIN EXISTING PEDESTRIAN AND VEHICULAR TRAFFIC AND ACCESS AT ALL TIMES DURING CONSTRUCTION AND SHALL PROVIDE THE NECESSARY TEMPORARY PAVEMENT BARRICADES, LIGHTING, SIGNS, FLAGMEN, ETC. FOR THE SAFETY OF THE PUBLIC, THE CONTRACTOR SHALL SUBMIT M.O.T. AND A.D.A. ACCESS PLANS TO THE ENGINEER FOR REVIEW AND CITY, COUNTY AND STATE APPROVAL OF WORK TO BE WITHIN THEIR RIGHTS OF WAY., M.O.T. SHALL BE IN ACCORDANCE WITH A.D.A., M.U.T.C.D. AND ED O T INDEX SERIES 600
- RECORD DRAWINGS THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. RECORD DRAWINGS MUST BE SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR REGISTERED IN THE STATE OF FLORIDA AND BE REFERENCE TO THE DATUM SHOWN IN THE CONSTRUCTION PLANS. ANY UMMARKED UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE INCORPORATED INTO THE RECORD DRAWINGS, ALL UTILITIES MUST BE SHOWN IN THEIR AS-BUILT LOCATION.
- RESPONSIBILITY THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND MATERIAL OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION IN OR AROUND THAT UTILITY, CALL "SUNSHINE STATE ONE CALL" AT 1-800-432-4770 PRIOR TO ANY EXCAVATION, THE ENGINEER AND OWNER SHALL BE HELD HARMLESS AGAINST ALL CLAIMS OR DAMAGES.
- 10. RESTORATION THE CONTRACTOR SHALL IMMEDIATELY REPAIR AND RESTORE EXISTING RESTORATION: THE CONTRACTION SHALL WINNEWAYS, PIPES, FENCES, TRAFFIC CONTROL
 DEVICES, MAILBOXES AND PROPERTY CORNERS DAMAGED AS A RESULT OF
 CONSTRUCTION ACTIVITIES. THE REPAIR AND RESTORATION SHALL CONFIRM TO APPLICABLE STANDARDS AS GOVERNED.
- 11. OPEN TRENCHES ALL OPEN TRENCHES AND HOLES SHALL BE PROPERLY MARKED AND BARRICADED TO INSURE THE SAFETY OF VEHICULAR AND PEDESTRIAN TRAFFIC. NO OPEN TRENCHES OR HOLES SHALL BE LEFT OPEN DURING NIGHT TIME HOURS WITHOUT EXPRESSED PERMISSION FROM THE OWNER, ENGINEER AND REGULATING AGENCIES. ALL NCHES SHALL COMPLY WITH OSHA TRENCH SAFETY ACT PROVISIONS.
- 12. CONFLICTS ANY CONFLICTING INFORMATION BETWEEN REGULATING AGENCIES AND THE CONSTRUCTION DOCUMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. AFFECTED CONSTRUCTION SHALL NOT COMMENCE OR RESUME UNTIL PERMISSION IS GRANTED BY THE ENGINEER OR OWNER.

WATER AND SEWER NOTES

- RIM ELEVATIONS ARE BASED ON PROPOSED FINISH GRADES, VERTICAL ADJUSTMENTS OF RIMS AND VALVE BOXES MAY BE NECESSARY DUE TO FIELD CONDITIONS. ADJUSTMENTS ARE TO BE MADE BY THE CONTRACTOR WHEN THE BASE COURSE IS IN PLACE OR SITE GRADING IS COMPLETE. COST OF ADJUSTING IS TO BE INCLUDED IN BASE BID.
- 2. WATER AND SEWER MAINS AND SERVICES TO CLEAR DRAINAGE MANHOLES AND INLETS BY A MINIMUM OF 3'.
- 3. PVC WATER MAINS SHALL BE LAID WITH NO DEFLECTIONS AT THE JOINTS AND PIPES SHALL NOT BE DEFLECTED.
- 4. WATER PIPE AND FITTINGS SHALL BE COLOR CODED IN ACCORDANCE WITH SUBPARAGRAPH
- 5. SEWER FORCE MAINS AND FITTINGS SHALL BE COLOR CODED IN ACCORDANCE WITH SUBPARAGRAPH 62-604,300 OF THE F.A.C.
- 6. DETECTABLE MAGNETIC TAPE SHALL BE INSTALLED 12" ABOVE CROWN OF PIPE, TAPE OVER WATER MAINS SHALL BE 6" BLUE. TAPE OVER FORCE MAINS SHALL BE 6" GREEN OR BROWN THE TAPE SHALL BE MAGNETIC AND MANUFACTURED BY THOR ENTERPRISES OR APPROVED
- 7. ELECTROMAGNETIC SENSOR (EMS) MARKERS SHALL BE PLACED ACCORDING TO THE STANDARD DETAIL AS WELL AS ALL CHANGES IN PIPE DIRECTION AND AT 500' (MAX) INTERVALS ALONG ENTIRE LENGTH,
- MEGALUG RESTRAINTS, SECURED WITH THRUST BLOCKS AND/OR TIE-RODS (SEE DETAIL SHEETS), SHALL BE USED ON ALL UNDERGROUND FITTINGS. ABOVE GROUND FITTINGS SHALL BE FLANGED. RESTRAINED JOINTS AND FITTINGS SHALL BE VISUALLY INSPECTED AND ACCEPTED BY THE ENGINEER PRIOR TO BACKFILLING.
- 9. FIRE HYDRANTS SHALL BE INSTALLED PER PBCWUD DETAIL.
- 10. MAINTAIN A 6' CLEAR AREA AROUND ALL FIRE HYDRANTS.
- 11_{\circ} ALL SERVICES SHALL HAVE AN RPZ BFP DEVICE INSTALLED ON THE DISCHARGE SIDE OF THE
- 12. VALVE BOX COVERS ARE NOT TO FALL WITHIN CURBS.
- 13. UNLESS CALLED FOR IN THE PLANS, ALL WATER MAINS AND FORCE MAINS SHALL HAVE 36"
- 14. D.I.P. SEWER PIPE SHALL BE EPOXY LINED.
- 15. ALL SANITARY SEWER SERVICE LATERALS SHALL BE PRIVATE.
- 16. ALL MANHOLE LIDS SHALL HAVE PBCWUD LOGO INSCRIBED THEREON (NEW & EXISTING).
- 17. HIGH VOLTAGE CORROSION BARRIER TESTING FOR SANITARY SEWER MANHOLES TO BE PERFORMED BY A CERTIFIED LABORATORY AT NO COST TO PBCWUD
- 18. NO CONNECTIONS SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF WITHOUT FIRST OBTAINING PERMISSION AND A CONSTRUCTION METER FROM PBCWUD
- 19. PRESSURE TEST CRITERIA SHALL CONFORM TO PBCHD AND PBCWUD STANDARDS SEGMENT SHALL BE TESTED FOR TWO (2) HOURS AT A MINIMUM PRESSURE OF 150 PSI IN ACCORDANCE WITH THE CURRENT AWWA C-600 STANDARD. THE MAXIMUM QUANTITY OF WATER THAT MUST BE SUPPLIED INTO THE TESTED PIPE TO MAINTAIN THE SPECIFIED PRESSURE SHALL NOT EXCEED 50% OF THE APPLICABLE AWWA C-600 STANDARD.
- 20. HORIZONTAL PIPE SEPARATION DIMENSIONS ARE FROM WALL TO WALL OF PIPES AND STRUCTURES UNLESS NOTED OR EXPLICITLY SHOWN
- 21, PRESSURE FITTINGS TO BE RESTRAINED PER PBCWUD SPECIFICATIONS

CLEARING AND GRUBBING

- CLEARING CLEARING SHALL BE LIMITED TO THE CONSTRUCTION AREA AND/OR AS DIRECTED BY THE ENGINEER OR OWNER AND APPROVED BY THE COUNTY.
- 2. GRUBBING ALL STUMPS, ROOTS, BURIED LOGS OR OTHER UNSUITABLE MATERIAL WITHIN THE LIMITS OF PAVEMENT CONSTRUCTION SHALL BE REMOVED TO A DEPTH OF 3 FEET BELOW FINISHED PAVEMENT ELEVATION AND REPLACED WITH CLEAN FILL.
- 3. DEBRIS REMOVAL ALL DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED. ANY MATERIAL RETAINED ON-SITE FOR MORE THAN 30 DAYS SHALL BE STORED IN CONTAINERS
- PROTECTION THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL EXISTING BUILDINGS, UTILITIES, STRUCTURES THAT ARE ABOVE OR BELOW GROUND AND SHALL HOLD THE ENGINEER AND OWNER HARMLESS AGAINST ALL CLAIMS OR DAMAGES
- 5. LANDSCAPED AREAS ALL LANDSCAPE PLANTING AREAS SHALL BE FREE OF BASE ROCK AND CONSTRUCTION DEBRIS AND EXCAVATED TO A MINIMUM DEPTH OF 30" OR TO CLEAN, NATIVE SOIL, REFER TO THE LANDSCAPE PLANS (BY OTHERS) FOR ADDITIONAL PLANTING
- 6. MUCK ANY MUCK ENCOUNTERED WITHIN 10' OF THE PAVEMENT AND BUILDING AREAS SHALL BE REMOVED AND REPLACED WITH CLEAN FILL MATERIAL
- HARDPAN ANY HARDPAN ENCOUNTERED IN THE DETENTION AREA SHALL BE REMOVED AND REPLACED WITH CLEAN, GRANULAR FILL MATERIAL.

PAVING AND DRAINAGE

- 1. SUBGRADE SUBGRADE SHALL BE COMPACTED TO 98% MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T-180 (ASTM-D1557) SPECIFICATIONS, ALL STUMPS, ROOTS, AND OTHER DELETERIOUS MATERIAL ENCOUNTERED SHALL BE REMOVED TO A DEPTH OF 3 FEET BELOW FINISHED ROAD GRADE AND REPLACED WITH CLEAN FILL COMPACTED TO NOT LESS THAN 100% OF MAXIMUM DENSITY, ALL SUCH MATERIAL SHALL BE REMOVED FROM WITHIN 8 FEET OF THE EDGE OF PAVEMENT. STABILIZED SUBGRADE SHALL CONFORM TO SECTION 160 OF FDOT SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND HAVE A MINIMUM LBR OF 40.
- 2. BASE APPROVED SHELLROCK AND LIMEROCK SHALL CONFORM TO APPLICABLE SECTIONS OF THE LATEST FOOT SPECIFICATIONS, BASE COURSE SHALL BE COMPACTED TO 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 (ASTM 1557), PRIME COAT MINIMUM APPLICATION RATE OF 0.10 GAL/S.Y., TACK COAT MINIMUM APPLICATION RATE OF 0.05 GAL/S.Y.
- 3. ASPHALT CONCRETE STRUCTURAL AND SURFACE COURSES SHALL CONFORM TO
- 4... STRUCTURES INLETS AND MANHOLES SHALL BE AS SPECIFIED ON THE PLANS AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE CURRENT FDOT SPECIFICATIONS, INLET GRATES SHALL BE SECURED IN ACCORDANCE WITH FOOT INDEX NO
- 5. PIPES DRAINAGE PIPES SHALL CONFORM WITH THE APPLICABLE SECTIONS OF THE CURRENT FDOT SPECIFICATIONS
- $\theta_{\rm c}$. REINFORCING STEEL ALL REINFORCING STEEL SHALL CONFORM TO ASTM A- 615

PAVING AND DRAINAGE - CONTINUED

- 7. CONCRETE CONCRETE SHALL DEVELOP A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED ON THE PLANS AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CURRENT FDOT SPECIFICATIONS.
- 8. PIPE BACKFILL PIPE BACKFILL SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE CURRENT FDOT SPECIFICATIONS, PIPE BACKFILL SHALL BE PLACED IN 6* LIFTS AND COMPACTED TO NOT LESS THAN 100% MAXIMUM DENSITY AS DEFINED BY AASHTO T-180.
- TRAFFIC CONTROL DEVICES ALL TRAFFIC CONTROL DEVICES, PAVEMENT MARKINGS AND SIGNS SHALL BE AS DEFINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), PALM BEACH COUNTY TYPICAL #T-P-18 AND/OR THE CURRENT FDOT SPECIFICATIONS, WHERE APPLICABLE. THERMOPLASTIC MATERIAL SHALL BE USED FOR FINAL PAVEMENT MARKINGS EXCEPT PARKING SPACES, IF PAVER BRICKS ARE USED IN MARKED PAVEMENT, BRICKS OF APPROPRIATE COLOR AND CONTRAST SHALL BE USED IN LIEU OF PAINT OR THERMOPLASTIC MATERIAL, PAINT MAY BE USED FOR TEMPORARY
- 10. WHERE CONNECTIONS TO AN EXISTING DRAINAGE SYSTEM ARE PROPOSED, SAID EXISTING DRAINAGE STRUCTURES AND LINES SHALL BE CLEANED OF ALL SILT AND OTHER DEBRIS
 PRIOR TO SAID CONNECTIONS BEING MADE, AND WHERE THE EXISTING DRAINAGE SYSTEM INCLUDES DITCHES, SAID DITCHES SHALL BE CLEARED AND REWORKED, AS NECESSARY, TO RESTORE THEM TO AN APPROVED DESIGN SECTION. DRAINAGE SYSTEMS ARE TO BE CLEANED AND/OR GRADED TO THE POINT OF LEGAL POSITIVE OUTFALL
- 11. ALL HANDICAP ACCESSIBLE RAMPS SHALL MEET ALL APPLICABLE LOCAL, STATE, AND FEDERAL ACCESSIBILITY GUIDELINES AND REGULATIONS. ANY MODIFICATIONS SHALL BE APPROVED BY ACCESSIBILITY OF AN INCREMENTAL OR PARKING SIGNS SHALL BE PLACED. A) BEHIND THE SIDEWALK OR B) ATTACHED TO BUILDING WALLS IN AREAS WHERE A SIDEWALK AND/OR BUILDING ABUTS THE STALL OR C) OUTSIDE THE TWO (2') FEET OVERHANG AREA WHERE WHERE WHEEL STOPS ARE NOT PROVIDED.
- 12, CONTRACTOR SHALL CONTACT PALM BEACH COUNTY TRAFFIC OPERATIONS AT 561-233-3900 FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION IF WORK IS BEING DONE WITHIN 10 FEET OF ANY SIGNAL EQUIPMENT
- 13. DAMAGES TO LOOPS OR ANY SIGNAL FOUIPMENT CAUSED BY CONSTRUCTION OF THIS PROJECT MUST BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION AT NO COST TO PALM BEACH COUNTY.

FIELD OBSERVATIONS AND TESTING

- NOTIFICATION THE CONTRACTOR SHALL NOTIFY THE ENGINEER, GOVERNMENT AND OTHER PERMITTING AGENCIES 48 HOURS PRIOR TO SCHEDULING FIELD OBSERVATIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO TEST THE COMPLETED WORK, CALL "SUNSHINE ONE CALL" AT 1-800-432-4770 PRIOR TO ANY EXCAVATION.
- THE UNDERGROUND CONTRACTOR SHALL SUBMIT ALL RECORD DATA, SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CURB AND PAVEMENT CONSTRUCTION, ANY NECESSARY ADJUSTMENTS AT THIS TIME SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
- 3. DRAINAGE PIPES AND STRUCTURES SHALL BE INSPECTED BY THE ENGINEER AND COUNTY PRIOR TO BACKFILLING. ALL DRAINAGE SYSTEMS SHALL BE PUMPED DOWN TO BELOW THE INVERT AND LAMPED AS A REQUIREMENT OF THE FINAL DRAINAGE INSPECTION.
- THE STATE OF FLORIDA AND ARE TO BE PAID FOR BY THE CONTRACTOR
- 5. THE BASE ROCK CHEMICAL AND SIEVE ANALYSIS AND THE ASPHALT MIX AND DESIGN
- 6. PROCTOR AND DENSITY TESTS FOR SUBGRADE AND BASE MATERIAL SHALL BE TAKEN AS DIRECTED BY THE ENGINEER. PAVING DENSITY TESTS SHALL BE TAKEN A MINIMUM OF ONE
- 7. DENSITY TEST FOR PIPE TRENCHES SHALL BE TAKEN AT THE PIPE SPRING-LINE AND AT MAXIMUM ONE FOOT (1') LIFTS AS MEASURED FROM THE TOP OF PIPE. THE TESTS SHALL BE TAKEN AT A MAXIMUM SPACING OF EVERY 300 FEET MEASURED FROM THE STRUCTURE OR AT LEAST ONE TEST AT THE CENTER OF THE PIPE SEGMENT BETWEEN TWO STRUCTURES IF LESS THEN 300 FEET. TESTS SHALL BE TAKEN ON ALL SIDES WITHIN FIVE (5') OF EACH STRUCTURE. THE TEST LOCATION AT THE STRUCTURE SHALL BE ON ALTERNATING SIDES OF THE STRUCTURE WITH EACH LIFT TESTED. THE LOCATION AND DEPTH OF ALL TESTS SHALL BE CLEARLY INDICATED IN THE DESCRIPTION AREA ON THE TEST REPORT OR ILLUSTRATED IN
- B. TESTING TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. TESTING REQUIREMENTS SHALL INCLUDE, BUT MAY NOT BE LIMITED TO, BACKFILL DENSITY, PIPELINE INTEGRITY (HYDROSTATIC PRESSURE) AND ANY OTHERS REQUIRED BY THE ENGINEER, PBCWUD OR PERMITTING AGENCIES,

ROAD AND BRIDGE GENERAL NOTES

- 1. IF DURING THE PROPOSED CONSTRUCTION/CROSSING ANY EXISTING PB COUNTY STORM DRAIN PIPE/STRUCTURES ARE AFFECTED IN ANY WAY PB COUNTY R&B REQUIRES FULL RESTORATION OF THE AFFECTED SYSTEM TO LIKE OR BETTER THAN CONDITION AND TO PB
- 2. ALL AFFECTED ROADWAYS ARE TO BE RESTORED FROM EOP TO EOP, LANE WIDTH MINIMUM, AND 50' IN EITHER DIRECTION (THOROUGHFARE) AND 25' MIN RESTORATION (NON-THOROUGHFARE)
- 3. IF ANY ADDITIONAL LANES ARE AFFECTED FOR ANY REASON DURING CONSTRUCTION, PR COUNTY R&B WILL REQUIRE THE ADDITIONAL LANES BE RESTORED TO LIKE OR BETTER CONDITION AND TO EQUAL DIMENSIONS AS THE ADJACENT LANES.
- 4. IF PB COUNTY SIDEWALK/PATHWAY/C&G/AND OR ADA FACILITIES ARE AFFECTED PB COUNTY R&B WILL REQUIRE RESTORATION OF A MINIMUM OF 10' AND TO BE LIKE OR BETTER THEN LIKE CONDITION PER FDOT/PB COUNTY STANDARDS.
- 5. SIDEWALKS WILL BE RESTORED BY REPLACING 2 FLAGS IF THE POINT OF CONSTRUCTION IS LOCATED AT A CONTROL JOINT AND THREE FLAGS IF THE POINT OF CONSTRUCTION IS LOCATED BETWEEN CONTROL JOINT, NOT PART JOINTS ACCEPTED

ABBREVIATIONS

BACKFLOW PREVENTER BUILDING BOTTOM OF PIPE BUTTERFLY VALVE CORRUGATED ALUMINUM PIPE CLEANOUT CURB RAMP CS DBO DCDA CONTROL STRUCTURE DESIGNED BY OTHERS DOUBLE CHECK DETECTOR ASSEMBLY DE DIP EL EX DRAINAGE EASEMENT DUCTILE IRON PIPE ELEVATION EXISTING FDC FIRE DEPARTMENT CONNECTION FINISHED FLOOR ELEVATION FIRE HYDRANT FORCE MAIN GR GV HC HDPE GRATE ELEVATION GATE VALVE HANDICAP ACCESSIBLE RAMP HIGH DENSITY POLYETHLENE PIPE HIGH POINT INLET LAKE MAINTENANCE EASEMENT MANHOLE NORTH AMERICAN DATUM NATIONAL GEODETIC VERTICAL DATUM NORTH AMERICAN VERTICAL DATUM PALM BEACH COUNTY PALM BEACH COUNTY HEALTH DEPARTMENT

PBCWUD PALM BEACH COUNTY WATER UTILITIES DEPARTMENT POLYVINLY CHLORIDE PROPERTY LINE REINFORCED CONCRETE PIPE REDUCER

RIGHT OF WAY REDUCED PRESSURE ZONE SIDEWALK SANITARY SEWER SAMPLE POINT STORM SEWER

SW TOB TOP OF BANK TOP OF PIPE TYPICAL UTILITY EASEMENT YARD DRAIN WM WATER MAIN

> RECEIVED by CITY OF GREENACRES

PLANNING & ENGINEERING

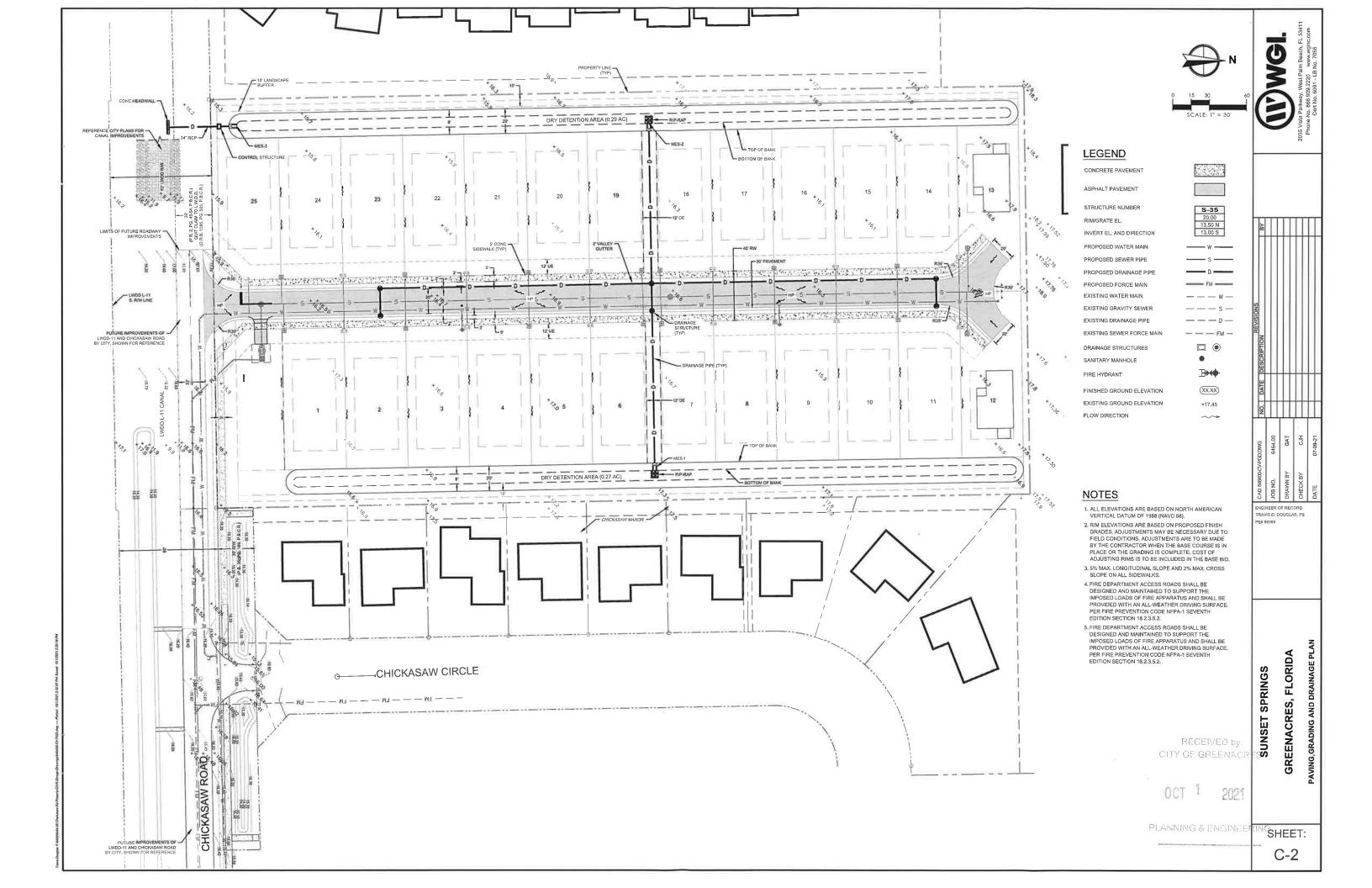


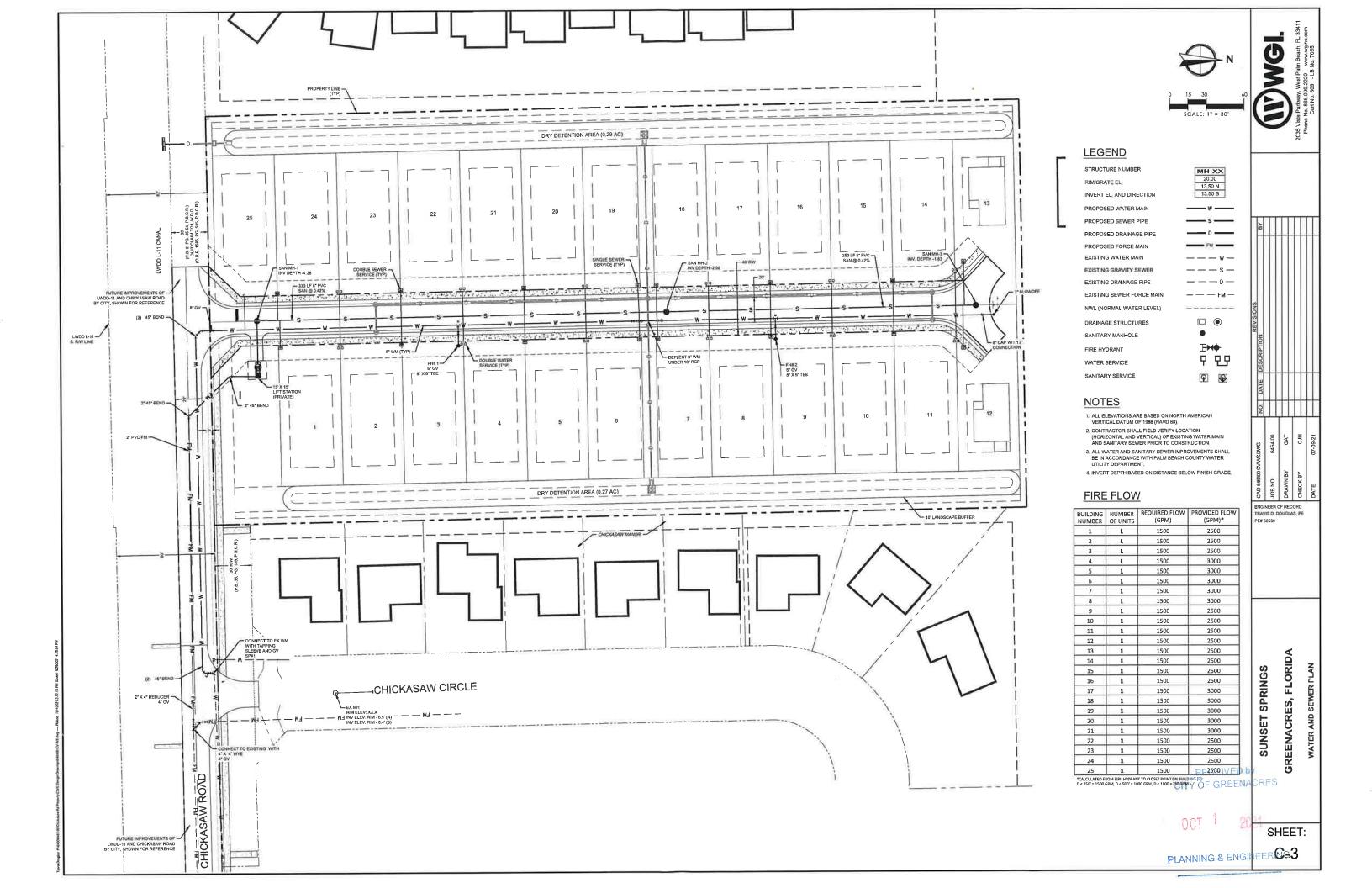
NUMBER OF RECORD AVIS D. DOUGLAS, PE F# 88589

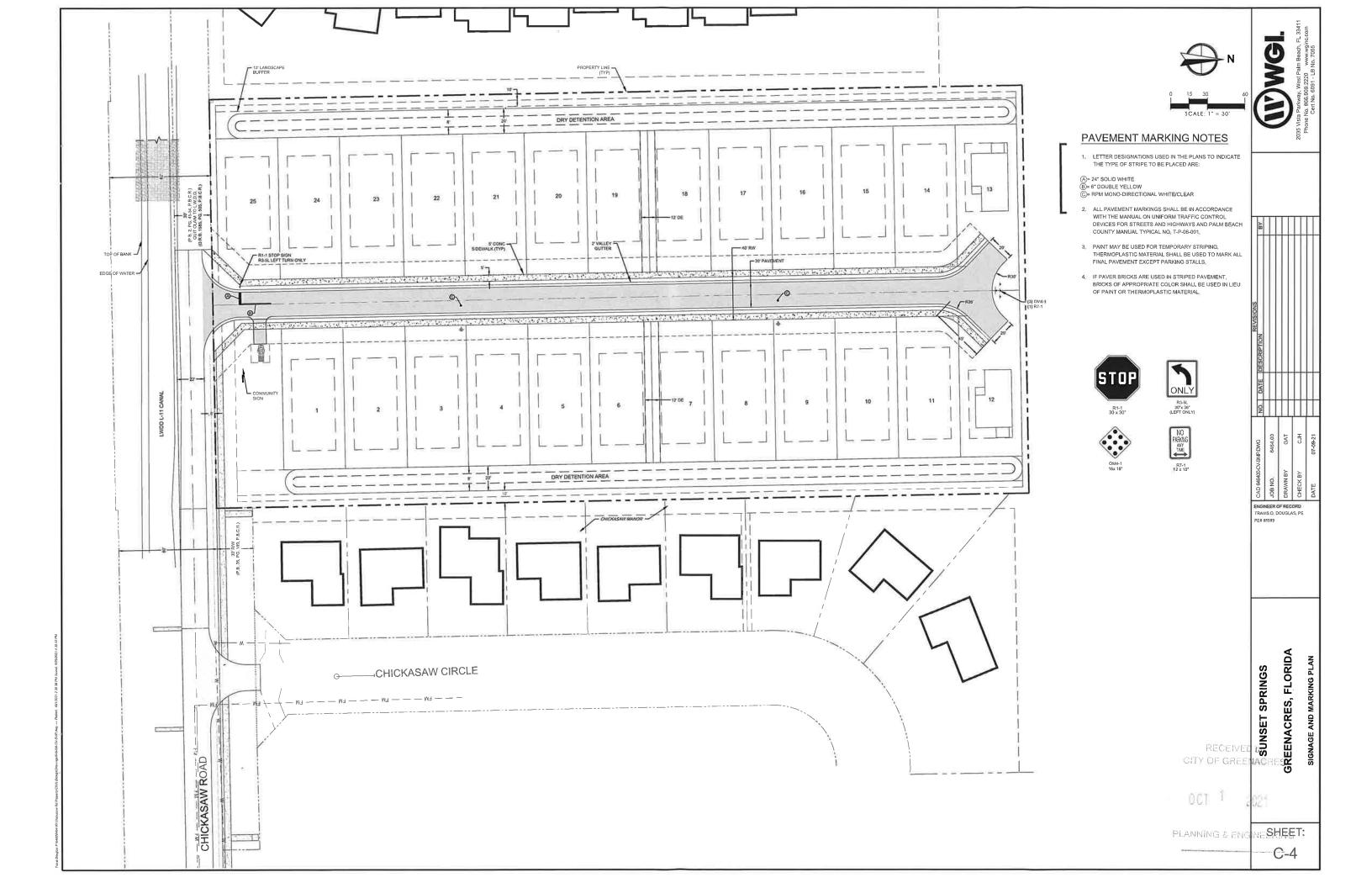
FLORIDA SPRINGS EENACRES, SUNSET

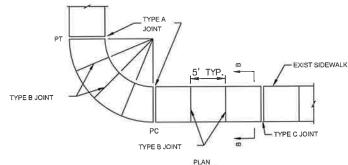
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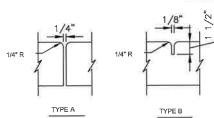
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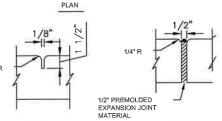










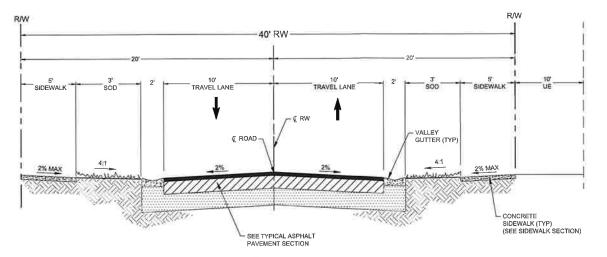


- 1. SIDEWALKS TO BE PORTLAND CEMENT CONCRETE, MIN 3000 PSI @ 28 DAYS,
- 2. BASE TO BE 6" COMPACTED SOIL (NO VAPOR BARRIER)
- 3. SIDEWALKS TO BE BROOMED FINISHED WITH EVEN DUSTLESS SURFACE,

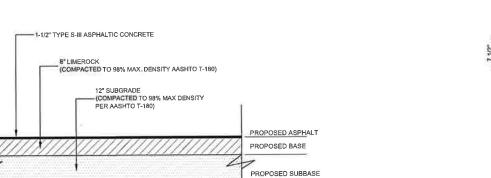
VARIES 1.5% MAX.

SECTION B-B

TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
TYPE A	P.C. & P.T. OF CURVES, JUNCTION OF EXIST. & NEW SIDEWALK
TYPE B	5'-0" CENTER TO CENTER ON SIDEWALKS
TYPE C	WHERE SIDEWALK ABUTS CONCRETE CURB, DRIVEWAYS, & SIMILAR STRUCTURES



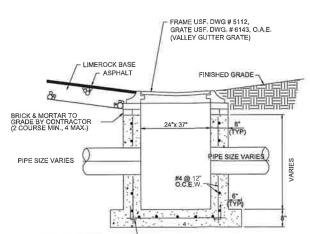
40' LOCAL STREET SECTION



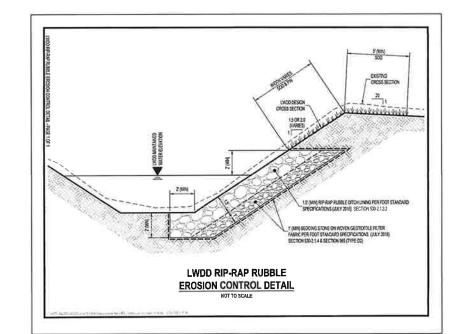
SIDEWALK CONSTRUCTION SCALE: NONE

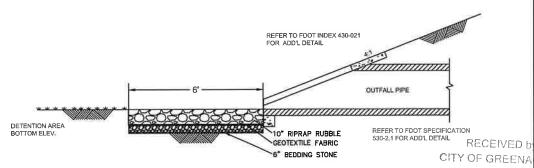
TYPICAL ASPHALT PAVEMENT SECTION

SCALE: NONE



CATCH BASIN DETAIL (TYPE C) SCALE: NONE





MITERED END DETAIL WITH RIPRAP

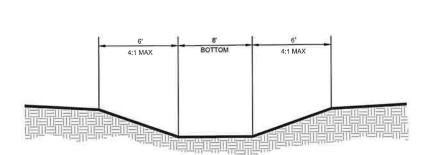
GREENACRES, FLORIDA SUNSET SPRINGS CITY OF GREENA CRES

SHEET:

ENGINEER OF RECORD TRAVIS D. DOUGLAS, PE

PE# 88589

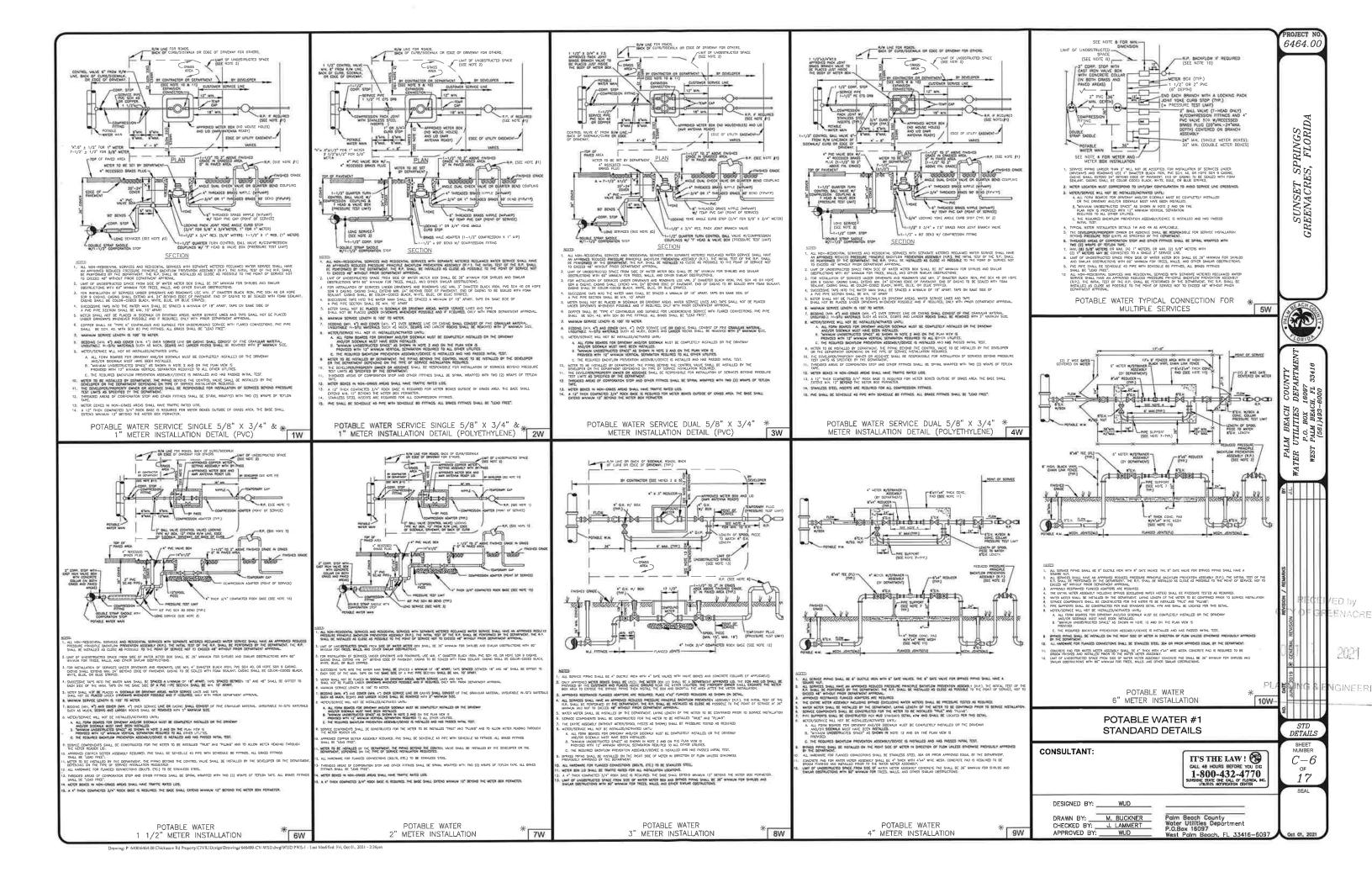
RINC-5 PLANNING & ENG!

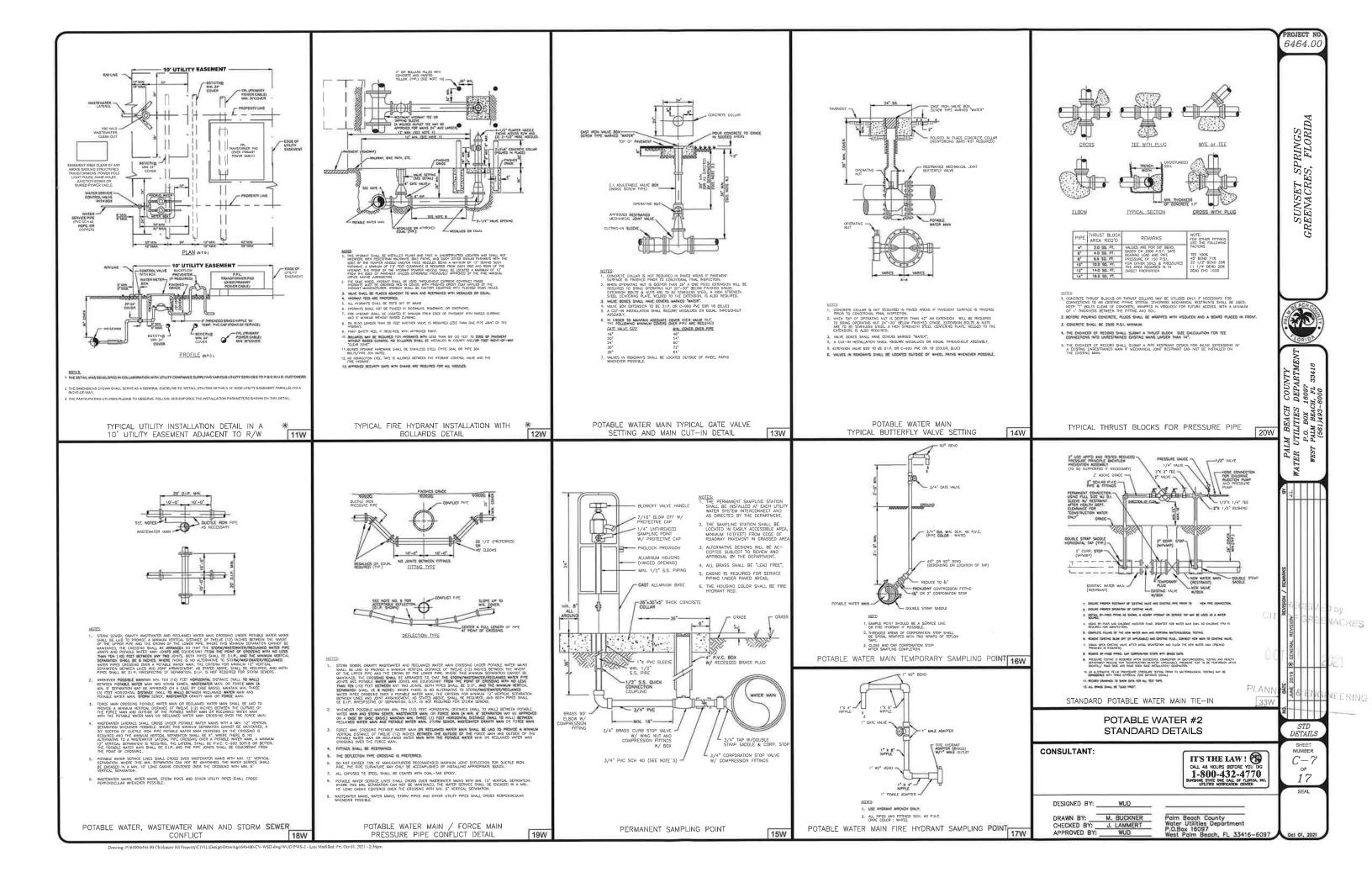


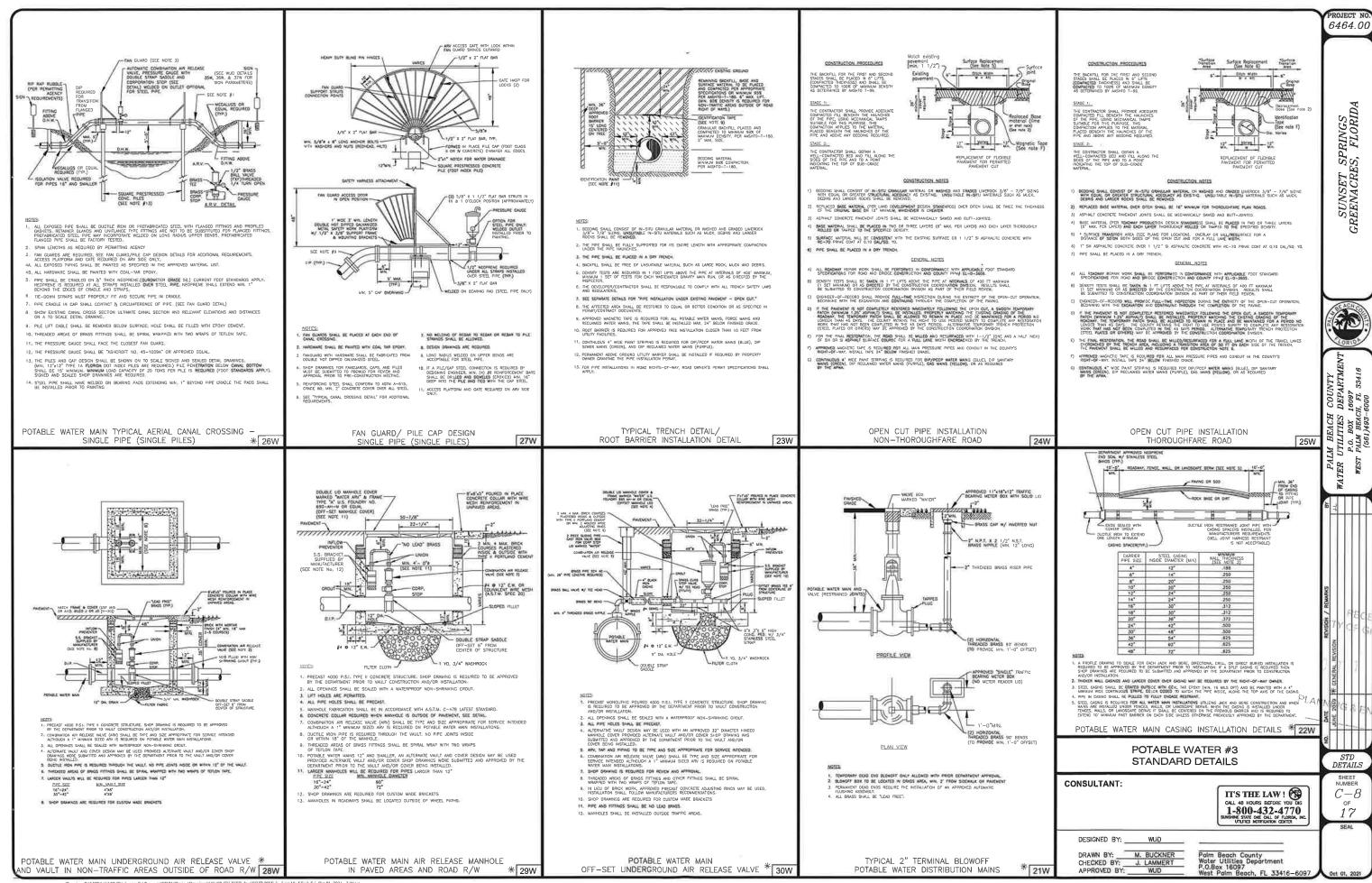
DRY DETENTION TYPICAL SECTION

2' VALLEY GUTTER SCALE: NONE

STD. HOOKS TIED UNDER BASE STEEL







VED by IEENACRE

INEERIN

