

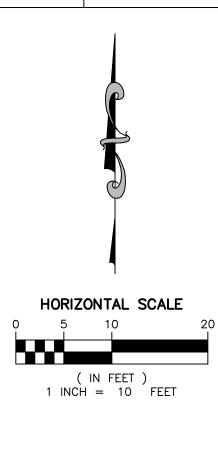
beyond edges of paving or construction.					
PIPE SLEEVES SIZES					
COM.WIRE SLEEVES					
2"/ 2" SLEEVES					

\_ #" ●/

slide through sleeving material. Extend sleeves 18 inches

	GPM	PSI	PRECIP	
	<u>13.54</u>			
ay		38.05	1.08 in/h	
ray	6.50	34.38	1.47 in/h	
ray	3.04	32.32	8.91 in/h	

4



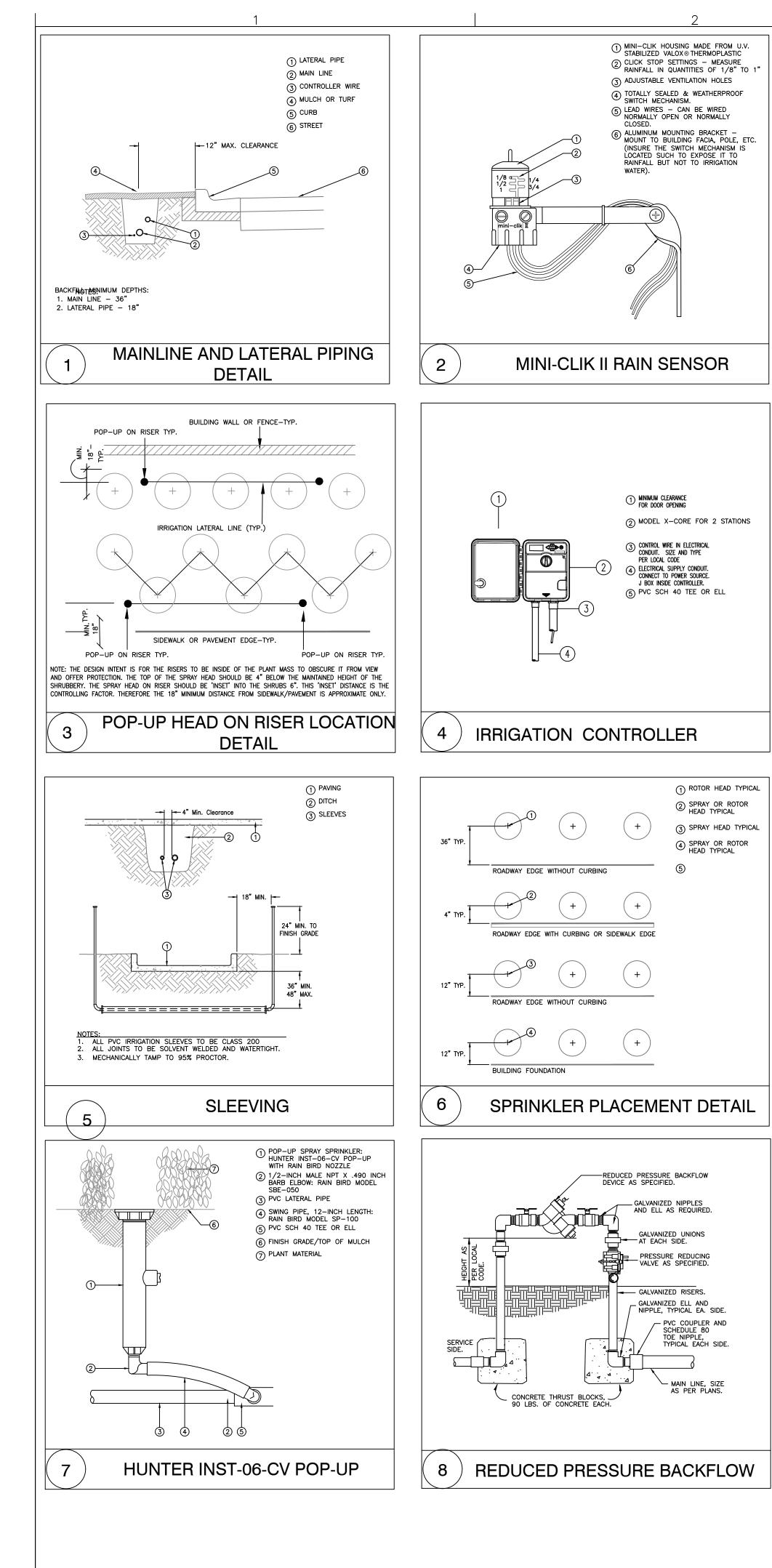
	朱
	Song + Associates
A	Architecture Planning Interior Design 1545 Centrepark Drive North West Palm Beach, Florida 33401 Telephone: 561-655-2423 Fax: 561-655-1482 AA - 0003165 IB - 0001095
	Seal : LANDSCAAC LA 66666770 LA 66666770 STATE OF COF
	Name : Brian R. Shore License # : 6666770
_ , _	Consultants : ILLER LEGG South Florida Office: 5747 N. Andrews Way Ft. Lauderdale, Florida · 33309-2364 954-436-7000 www.millerlegg.com tificates of Authorization: EB7318, LB6680, LC0337
B	COPYRIGHT © 2011 SONG & ASSOCIATES, INC. ALL RIGHTS RESERVED. These drawings and specifications are instruments of service and shall remain the property of Song & Associates, Inc. whether the project for which they were prepared is executed or not. They are not to be used in any manner on other projects or extensions to this project except by agreement in writing with the appropriate compensation to Song & Associates, Inc. Reproduction of drawings or specifications by anyone other than Florida Power & Light Company without the written consent of Song & Associates, Inc. is prohibited.
	DELRAY BEACH CRA COMMUNITY REDEVELOPMENT AGENCY
	DELRAY BEACH CRA DEVELOPMENT
	95 SW 5TH AVE., DELRAY BEACH, FL 33483
С	Key Plan :
	Date : 08/07/20 S+A Project No : 18063 ML Project No: 19-00014 Drawn By : R.N.G Checked By : B.S Phase :
	100% CONSTRUCTION DOCUMENTS
D IR	Sheet Title : RIGATION PLAN
	Sheet # : IRR.1

This item has been digitally signed and sealed by Brian Shore using a Digital Signature as required by Florida Administrative Code Rule 61G10-11.011.

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.



5



and as-built plans. walls, under roadways and paving, etc. THE PIPE

VALVES

Sequence all valves so that the furthest valve from the P.O.C. operates first and the closest to the P.O.C. operates last. The closest valve to the P.O.C. should be the last valve in the programmed sequence. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. Valve boxes shall be installed in shrub beds. No valve boxes shall be installed in turf areas without approval by the irrigation designer. Using 3" high number stencils paint the valve number in white on the lid of each valve box.

# WIRING

also provide accurate, informative, and easy to follow and understand operation and #14 red for hot wire maintenance manuals for all components of the irrigation system. #14 yellow for spares (provide 1 spare for every 10 hot wires) Controller charts - upon completion of "as-builts" prepare controller charts: one per controller. (Minimum of 2 extra) Indicate on each chart the area controlled by a remote control valve (using a different color for Controller grounding - drive three (3) 5/8'x8" copper clad grounding rods into the ground. The rod each zone). This chart shall be reduced to a size that will fit inside of the controller door. The layout should be a triangular pattern with an 8" separation between rods. The top of each rod reduction shall be hermetically sealed inside two 2ml pieces of clear plastic. should be at least 6" below finished grade. Tie the rods together using #10 gauge bare copper wire. Attach wire to grounding rods using a brass clamp (one clamp per wire). Connect this FINAL ACCEPTANCE grounding triangle to the controller using #10 gauge bare copper wire. Connect at grounding Final acceptance of the irrigation system will be given after the following documents and terminal. Each grounding rod shall be placed in a 12" rectangular valve box. conditions have been completed and approved. Final payment will not be released until these

# EQUIPMENT

# LAY-OUT

# **IRRIGATION NOTES.**

The system has been designed to conform to the requirements of all applicable codes. Should any conflict exist, the requirements of the codes shall prevail. It is the responsibility of the owner/installation contractor to insure the entire system is installed according to all applicable laws, rules, regulations and conventions. THE WORK

The work specified in this section consists of furnishing all components necessary for the installation, testing, and delivery of a complete, fully functional automatic landscape irrigation system that completely complies with the irrigation plans, specifications, notes, details and all applicable laws, regulations, codes and ordinances. This work shall include, but not be limited to the providing of all required material (pipe, valves, fittings, controllers, wire, primer, glue, etc.), layout, protection to the public, excavation, assembly, installation, backfilling, compaction, repair of road surfaces, controller and low voltage feeds to valves, cleanup, maintenance, guarantee

The system is designed to provide 100 % head to head coverage. Adjust sprinkler heads to minimize overspray onto roadways, buildings, walls, driveways, parking lots, etc. Contractor shall verify all underground utilities 72 hours prior to commencement of work.

It is the responsibility of the irrigation contractor to familiarize himself with all grade differences location of walls, retaining walls, structures and utilities. Do not willfully install the sprinkler system as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in the area dimensions exist that might not have been considered in the engineering. Such obstructions, or differences, should be brought to the attention of the owners/authorized representative. In the event this notification is not performed, the irrigation contractor shall assume full responsibility for any revisions necessary. Irrigation contractor shall repair or replace all items damaged by his work. He shall coordinate his work with other contractors for the location and installation of pipe sleeves and laterals through

The irrigation contractor shall take immediate steps to repair, replace, or restore all services to any utilities which are disrupted due to his operations. All costs involved in disruption of service and repairs due to negligence on the part of the irrigation contractor shall be his responsibility. Contractor to verify these minimum conditions can be met prior to the beginning of installation. I the conditions can not be met, the irrigation contractor must notify the designer prior to proceeding with the work. If the irrigation contractor does not do so, he proceeds at his own risk and becomes responsible for any future work required to make the system perform as required

Pipe locations shown on the plan are schematic and shall be adjusted in the field. When laying out main and lateral lines locate pipe near edges of pavement or against buildings whenever possible to allow space for plant root balls. Pipes are to always be placed in planting beds. If it is TESTING necessary to have piping under hardscapes, such as roads, walks, and patios, the pipes must be sleeved using Sch 40 PVC with the sleeve diameter being twice the size of the pipe it is carrying. Pipe sizes shall conform to those shown on the drawings. No substitutions of smaller pipe sizes shall be permitted, but substitutions of larger sizes may be approved. All damaged and rejected pipe shall be removed from the site at the time of said rejection.

Mainline shall be Schedule Class 200 PVC solvent weld with Schedule 40 PVC fittings. PVC pipe joint compound and primer: slow-drying, heavy-duty cement and tinted (purple) primer that is compatible with the cement. The PVC cement shall be Weld-On 2711 grey and the primer shall be Weld-On P70 purple primer, or approved equals.

Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire; suitable for direct burial and continuous operation at rated voltages. Tape and bundle control wires every 10' and run alongside the mainline. At all turns in direction make a 2" coil of wire. At all valves boxes coil wire around a <sup>3</sup>/<sub>4</sub>" piece of PVC pipe to make a coil using 30 linear inches of wire. Make electrical connections with 3M-DBY connectors. Number all wires, using an electrical book of numbers, according to the plans. Number wire in all

valve boxes, junction boxes and at the controller.

Wire sized, numbered and colored as follows: #14 white for common

Shrub heads shall be installed on <sup>1</sup>/<sub>2</sub>" Sch 40 PVC risers. Shrub heads shall be installed to a standard height of 6" above plants and shall be installed within planted masses to be less visible. Bubblers shall be installed using Sch 80 nipples and shall be place at the base of trees for low level watering. Paint all shrub risers with flat black, or forest green paint.

All pop-up heads and shrub heads shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints.

All sprinkler equipment, not otherwise detailed or specified, shall be installed as per manufacturer's recommendations and specifications, and according to local and state laws.

Lay out irrigation system main and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches. Stake all sprinkler head locations. Adjust locations and make the necessary modifications to nozzle types, etc. required to insure 100% head to head coverage.

Locate valves prior to excavation. Insure that their location provides for easy access and that there are no interference's with physical structures, plants, trees, poles, etc.

# TRENCHING

Excavate straight and vertical trenches with smooth, flat or sloping bottoms. Trench width and depth should be sufficient to allow for the proper vertical and horizontal separation between piping, as shown in the pipe installation detail on the Detail Sheet. Protect existing landscaped areas. Remove and replant any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the size of the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative. INSTALLATION

Cut all pipes square and deburr. Clean pipe and fittings of foreign material. Apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of PVC cement - first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin layer on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then turn the pipe a <sup>1</sup>/<sub>4</sub> turn and hold for 10 seconds. Make sure that the pipe doesn't recede from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded.

Pipes must cure a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water

## BACKFILL

Pipe shall be installed so the following minimum backfill depths are maintained: 24" for all sleeving, 18" for the main line and 12" for all laterals.

Backfill shall be of suitable material free of rocks, stones, or other debris that is large than 1/2" in diameter.

### FLUSHING

Prior to the placement of heads, flush all lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer. Use screens in heads and adjust heads for proper coverage avoiding excess water on walls, walks, and paving.

Remove all remote control valves and cap using a threaded cap. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations - the locations must be at opposite ends of the mainline. With the same respective pressure, monitor the gauges for two hours. There can be no loss in pressure at either gauge. If a loss of pressure occurs, find the leak; repair it; wait 24 hours and retry the test. This procedure must be followed until the mainline passes the test.

The lateral lines must be billed and visually checked for leaks. Any leaks detected must be repaired. Not pressure test of the lateral lines is required.

Once the mainline and lateral lines have passed their respective tests, and the system is completely operational, a coverage test and demonstration of the system is required. The irrigation contractor must demonstrate to the owner, or his/her representative that proper coverage is obtained ant that the system works automatically form the controller. This demonstration requires that each zone be turned on, in the proper sequence as shown on the plans, from the controller. Each zone with is inspected for proper coverage and function. The determination of proper coverage and function is at the sole discretion of the owner, or owner's representative.

Operational testing - Upon completion of backfilling, finish grading and contouring, test the entire system for proper operation; including electrically actuating the remote control valves. Run each zone until water begins to puddle or run off. This will allow the irrigation contractor to determine the number of start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In sandy soils no puddling will occur, instead, calculate the required run times.

## SUBMITTALS

The irrigation contractor must submit for approval, prior to installation, copies of the manufacturer" cut sheets/specifications for all components to be used in the irrigation system. After project completion, and as a condition of final acceptance, the irrigation contractor shall provide the owner with a high quality, accurate, and legible set of as-built drawings. The as-builts must identify all remote control valves, gate valves, ball valves, splice boxes, controllers, mainline, sleeving, and low voltage wiring. To locate each item two dimensions from fixed objects of a permanent nature must be taken and noted on the as-builts. The irrigation contractor must

conditions are satisfied.

- Final walk-thru and correction of all punch items.
- Completion and acceptance of "as-built" drawings.
- Acceptance of required controller charts and placement inside of controllers. 3.
- Turn over of all required parts and tools as outlined in the project specifications.

## GUARANTEE

The irrigation system(s) shall be guaranteed for a minimum of one calendar year from the time of final acceptance.

### CONTROLLER

The irrigation controller shall be a Hunter/Rainbird which are located within the POC enclosure contractor to verify in working condition located in the pump enclosure with rain sensor under a grill on top of the enclosure. The controller zones shall be pre-wired to outside the pump enclosure and labeled with each zone number.

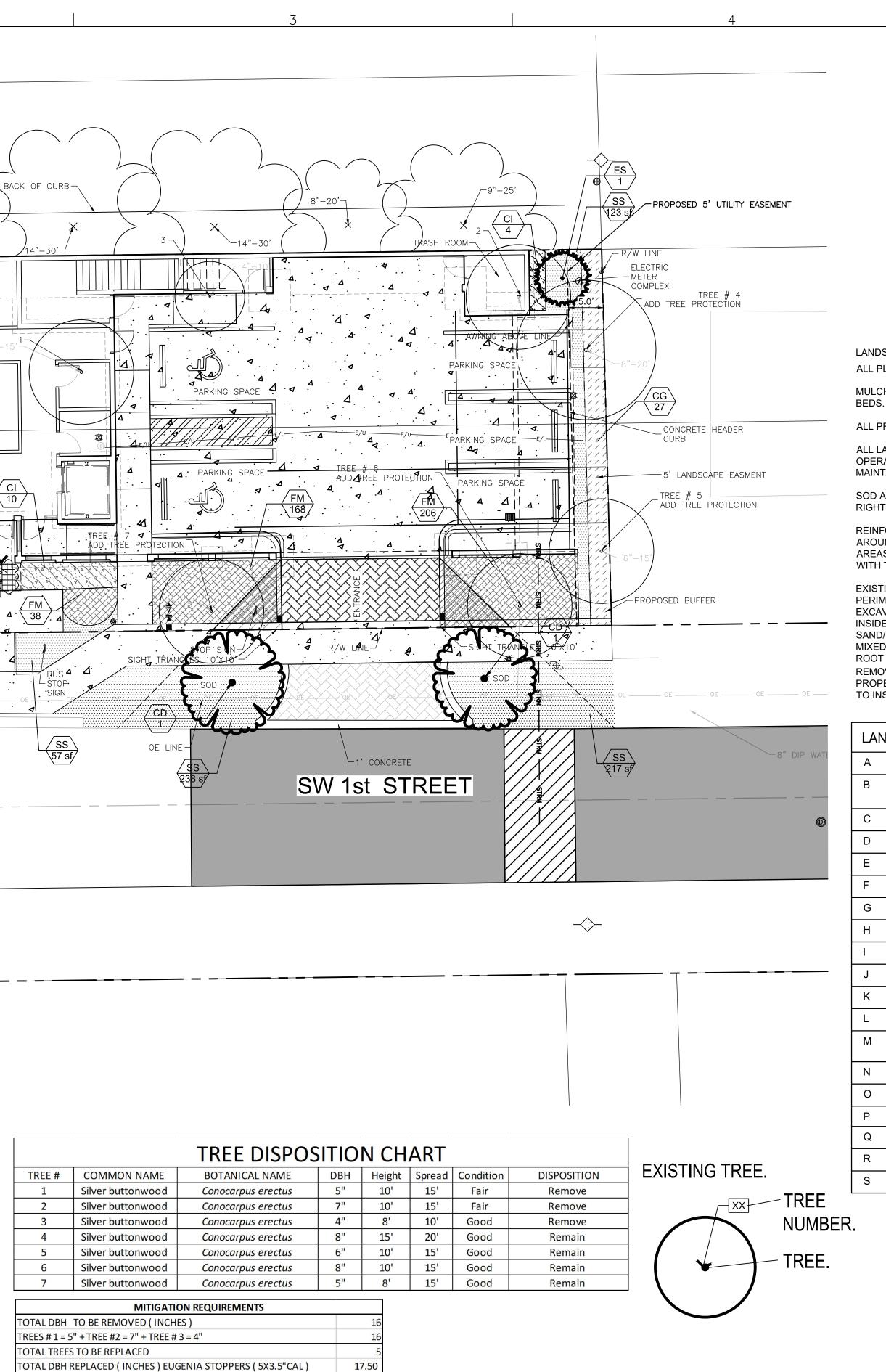
This item has been digitally signed and sealed by Brian Shore using a Digital Signature as required by Florida Administrative Code Rule 61G10-11.011.

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.



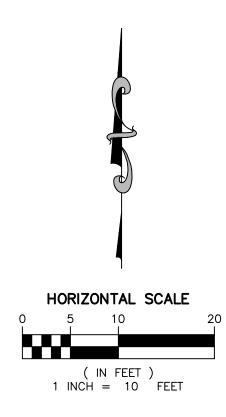
オ
Song + Associates
Architecture● Planning ● Interior Design
1545 CentreparkDriveNorthWest Palm Beach,Florida33401Telephone:561-655-2423Fax:561-655-1482
AA - 0003165 IB - 0001095
Seal :
LA 6666770
FLORIDA
– Name : Brian R. Shore License # : 6666770
Consultants :
South Florida Office: 5747 N. Andrews Way Ft. Lauderdale, Florida · 33309-2364 954-436-7000
www.millerlegg.com Certificates of Authorization: EB7318, LB6680, LC0337 COPYRIGHT © 2011 SONG & ASSOCIATES, INC. ALL RIGHTS RESERVED. These drawings and
specifications are instruments of service and shall remain the property of Song & Associates, Inc. whether the project for which they were prepared is executed or not. They are not to be used in
any manner on other projects or extensions to this project except by agreement in writing with the appropriate compensation to Song & Associates, Inc. Reproduction of drawings or specifications by anyone other than Florida Power
& Light Company without the written consent of Song & Associates, Inc. is prohibited.
COMMUNITY REDEVELOPMENT AGENCY
DELRAY BEACH CRA
DEVELOPMENT
95 SW 5TH AVE., DELRAY BEACH, FL
33483 Key Plan :
Date : 08/07/20
S+A Project No : <u>18063</u> ML Project No: 19-00014
Drawn By : R.N.G Checked By : B.S
Phase : 100% CONSTRUCTION
DOCUMENTS
IRRIGATION NOTES AND DETAILS
Sheet # :

		SW 5TH AVE	8" DIP WATER MAI	N BACKELOW PREVENTE®"-20		Y LINE	9"-20'-X
OEOE						PLANTERS LANDING ELEVATION CI 15 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
		PARKING SIGN-					FM
		PARKING SIGN-	CROSSWALK MARKING STOP MARKING		└ CON SLA	CTRIC METER	126/
PLAN SCH		CROSSWALK MARKING	MARKING STOP MARKING		└ CON SLA	CTRIC METER	126/
		CROSSWALK MARKING	MARKING STOP MARKING		└ CON SLA	CTRIC METER	126/
		CROSSWALK MARKING ©	MARKING STOP MARKING	08		CTRIC METER	126 / ICRETE
	<u>CODE</u>	© CROSSWALK MARKING © © E. BOTANICAL / COMMON NAME BOTANICAL / COMMON NAME				CTRIC METER	<u>QTY</u>
	<u>CODE</u> CD	CROSSWALK MARKING © © DELEDITIONAL / COMMON NAME BOTANICAL / COMMON NAME Coccoloba diversifolia / Pigeon Plum Full Eugenia SPP / Stoppers (TREE FORM) NATIVE TREE.	MARKING STOP MARKING 5 5 CONTAINER Field Grown	CALIPER 2" CAL	<u>SIZE</u> 10' HT	CTRIC METER	<u>QTY</u> 6
TREES TREES SHRUB AREAS	<u>CODE</u> CD ES	CROSSWALK MARKING © D D D D D D D D D D D D D D D D D D	MARKING STOP MARKING E E E S MARKING MARKING STOP STOP STOP STOP STOP STOP STOP STOP	© <u>CALIPER</u> 2" CAL 3.5" CAL	<u>SIZE</u> 10' HT	CTRIC METER APLEX ON CON B	<u>QTY</u> 6 5
TREES SHRUB AREAS	CODE CD ES <u>CODE</u>	CROSSWALK MARKING © © D D D D D D D D D D D D D D D D D	MARKING STOP MARKING 5	CALIPER 2" CAL 3.5" CAL HEIGHT	<u>SIZE</u> 10' HT	SPACING	<u>QTY</u> 6 5 <u>QTY</u>
TREES SHRUB AREAS	CODE CD ES <u>CODE</u> CI	CROSSWALK MARKING CROSSWALK MARKING S COULT S BOTANICAL / COMMON NAME Coccoloba diversifolia / Pigeon Plum Full Eugenia SPP / Stoppers (TREE FORM) NATIVE TREE. 150 SF CREDIT FOR MITTIGATION. BOTANICAL / COMMON NAME Chrysobalanus icaco / Coco Plum 24" HT	MARKING STOP MARKING 5 CONTAINER Field Grown 65 gal CONT 7 GAL	© <u>CALIPER</u> 2" CAL 3.5" CAL <u>HEIGHT</u> 24" HT.	<u>SIZE</u> 10' HT	SPACING 30" o.c.	<u>QTY</u> 6 5 <u>QTY</u> 34
TREES SHRUB AREAS	CODE CD ES CODE CI CG	CROSSWALK MARKING CROSSWALK MARKING C S S S S S S S S S S S S S S S S S S	MARKING STOP STOP ST	© <u>CALIPER</u> 2" CAL 3.5" CAL <u>HEIGHT</u> 24" HT. 24" HT.	<u>SIZE</u> 10' HT	SPACING 30" o.c. 30" o.c.	126         ICRETE         QTY         6         5         QTY         34         27
TREES SHRUB AREAS	CODE CD ES CODE CI CG DT	CROSSWALK MARKING CROSSWALK MARKING S COCCOLODA DIVERSIONAL MARKING S COCCOLODA DIVERSIONAL COCCOLODA DIVERSIO	MARKING STOP STOP ST	© CALIPER 2" CAL 3.5" CAL HEIGHT 24" HT. 24" HT. 18" HT.	<u>SIZE</u> 10' HT	SPACING 30" o.c. 24" o.c.	<u>QTY</u> 6 5 <u>QTY</u> 34 27 4



City of Delray Beach mitigation requirements for Multi- Family/ industrial / Commercial use Mitigation. The total DBH of all trees with a condition rating of 50 percent or greater removed shall be replaced with the equivalent number of caliper inches of replacement trees, installed at a minimum size as required by Section 4.6.16. (Ord. No. 19-17, 1, 8-2-17)

> This item ha using a Digi Code Rule 6 Printed copi and sealed on any elect



LANDSCAPE NOTES:

ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER.

MULCH SHALL BE APPLIED TO A MINIMUM DEPTH OF THREE (3) INCHES IN ALL PLANTING BEDS.

ALL PROHIBITED PLANT SPECIES SHALL BE ERADICATED FROM THE SITE.

ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM, AUTOMATICALLY OPERATED, TO PROVIDE COMPLETE COVERAGE TO ALL PLANT MATERIAL AND GRASS TO BE MAINTAINED.

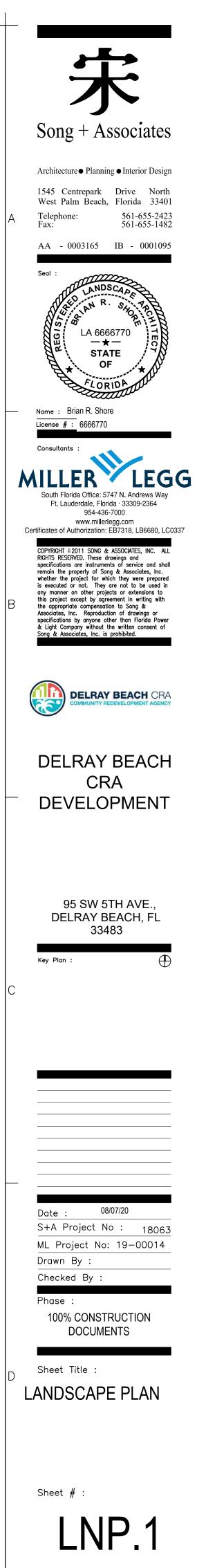
SOD AND IRRIGATION SHALL BE PROVIDED WITHIN THE UNPAVED PORTION OF THE RIGHT-OF-WAY ADJACENT TO THE PROPERTY LINE.

REINFORCED CONCRETE CURBING AT LEAST SIX (6) INCHES IN HEIGHT SHALL BE PROVIDED AROUND ALL LANDSCAPE ISLANDS AND AS A SEPARATOR BETWEEN ALL LANDSCAPED AREAS THAT ARE ADJACENT TO VEHICULAR USE AREAS UNLESS CURBING WILL INTERFERE WITH THE DRAINAGE.

EXISTING NATIVE SOIL WITHIN ALL LANDSCAPE ISLANDS, INTERIOR LANDSCAPE STRIPS AND PERIMETER LANDSCAPE STRIPS, ADJACENT TO VEHICULAR USE AREAS, SHALL BE EXCAVATED DOWN TO A DEPTH OF 30" BELOW GRADE, EXCEPT FOR A 12" BUFFER FROM THE INSIDE OF CURB OR PAVEMENT. a SUITABLE PLANTING MIXTURE OF FIFTY/FIFTY(50-50) SAND/TOPSOIL SHALL EITHER BE BACKFILLED IN PLACE OF NATIVE SOIL OR EFFICIENTLY MIXED WITH THE NATIVE SOIL TO CREATE AN OPTIMUM ENVIRONMENT FOR SUCCESSFUL ROOT DEVELOPMENT. IF NATIVE SOIL IS TO BE MIXED, IT SHALL FIRST BE SCREENED TO REMOVE ROCKS AND DEBRIS LARGER THAN  $\frac{1}{2}$ " IN DIAMETER PRIOR TO MIXING. THE PROPERTY SHALL BE REQUIRED TO HAVE AN OPEN BED INSPECTION PRIOR TO BACKFILLING TO INSURE THE 30" DEPTH HAS BEEN MET.

# LANDSCAPE CALCULATIONS

TOTAL LOT AREA	7496 S.F.
STRUCTURES, PARKING, WALKWAYS, DRIVES, ETC.	6040 S.F.
TOTAL PERVIOUS LOT AREA	1456 S.F.
AREA OF SHRUBS AND GROUNDCOVER REQUIRED	437 S.F.
AREA OF SHRUBS AND GROUNDCOVER PROVIDED	1862 S.F.
NATIVE VEGETATION REQUIRED	110 S.F.
NATIVE VEGETATION PROVIDED	354 S.F.
TOTAL PAVED VEHICULAR USE AREA	2512 S.F.
TOTAL INTERIOR LANDSCAPE AREA REQUIRED	252 S.F.
TOTAL INTERIOR LANDSCAPE AREA PROVIDED	662 S.F.
TOTAL INTERIOR SHADE TREES REQUIRED	2.01
TOTAL INTERIOR SHADE TREES PROVIDED	3
TOTAL L.F. SURROUNDING PARKING OR VEHICULAR USE AREAS	202 L.F
TOTAL NUMBER OF PERIMETER TREES REQUIRED	6.7
TOTAL NUMBER OF PERIMETER TREES PROVIDED	9
TOTAL NUMBER OF EXISTING TREES TO BE SAVED	4
TOTAL NUMBER OF NATIVE TREES REQUIRED	4
TOTAL NUMBER OF NATIVE TREES PROVIDED	15
TOTAL NUMBER OF TREES ON PLAN PROVIDED	15



This item has been digitally signed and sealed by Brian Shore using a Digital Signature as required by Florida Administrative Code Rule 61G10-11.011.

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.



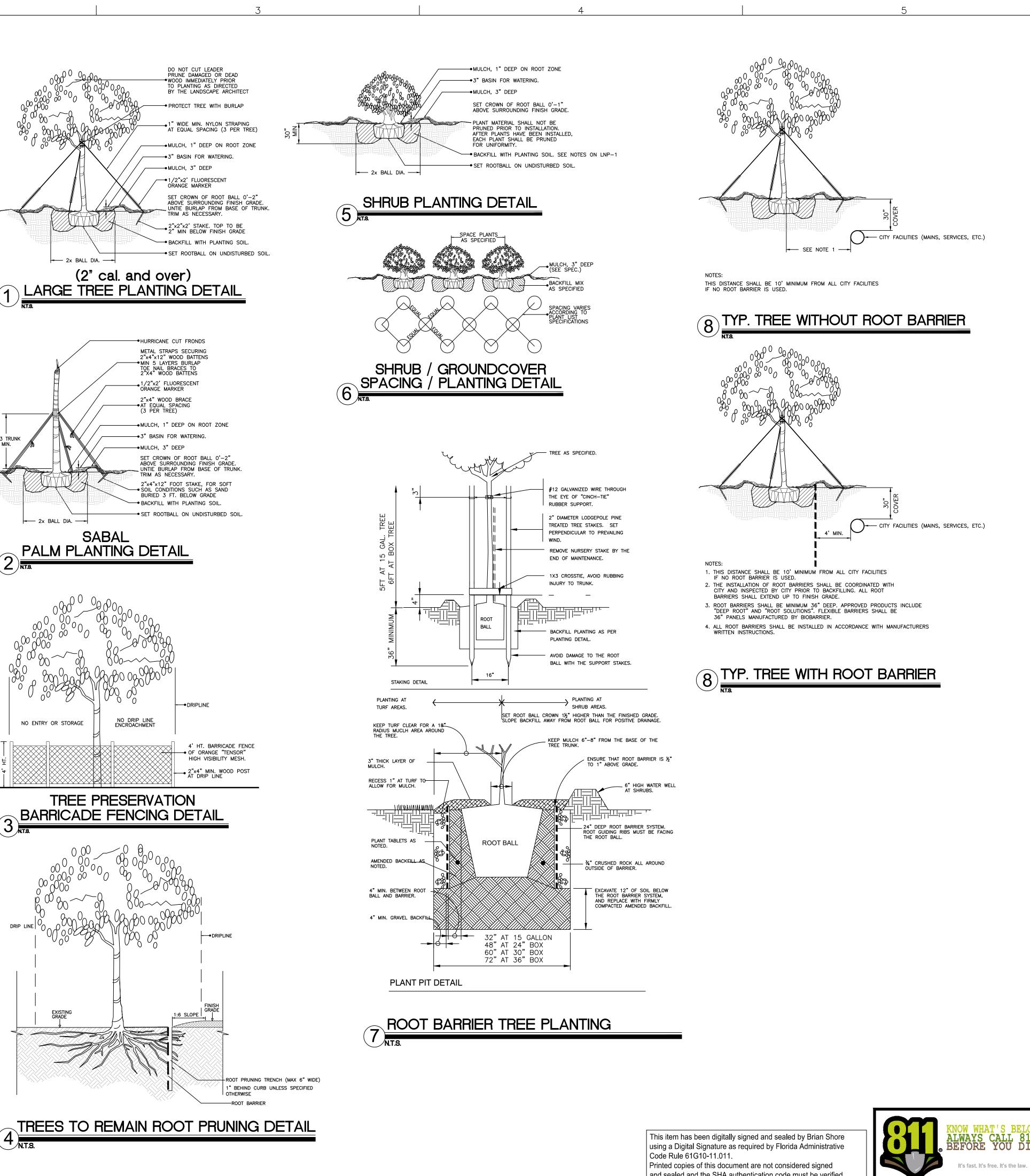
# GENERAL NOTES:

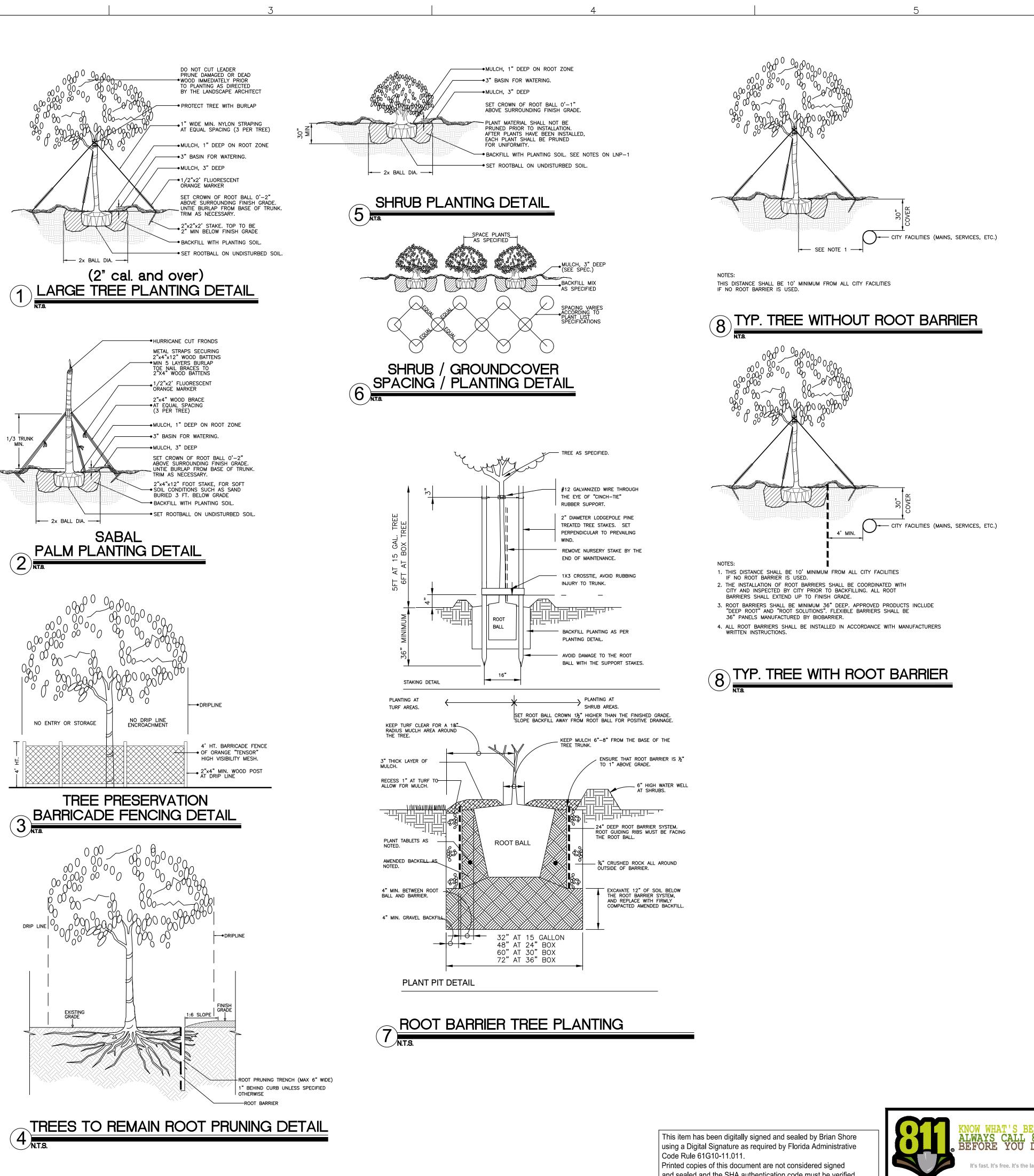
- 1. Any trees or shrubs placed within water, sewer or drainage easements shall conform to the City of Delray Beach Standard Details; LD 1.1 & LD 1.2
- 2. PLANT MATERIAL: All plant material shall be Florida #1 or better as established by "Grades and Standards for Nursery Plants" of the state of Florida, Department of Agriculture.
- 3. All trees, shrubs and groundcovers shall be of the sizes as specified in the Plant List.
- 4. Quantities listed on the the Plant List are for estimating purposes. Contractor shall verify all quantities. Mulch, topsoil, fertilizer, etc. shall be included in the unit cost of the plants.
- 5. Where there is a discrepancy either in quantities, plant names, sizes or specifications between the plan or plant list, the plan takes precedence.
- 6. All planting beds and water basins for trees shall be covered with a 3" minimum depth of shredded eucalyptus or florimulch grade 'B' or better.
- 7. The Planting Plan shall be installed in compliance with all existing codes and applicable deed restrictions.
- 8. SOD: All areas not used for buildings, vehicular use areas, walks or planting beds shall be grassed. Grassing shall extend to any abutting street pavement edge and to the mean waterline of any abutting canal, lake or waterway.
- 9. PLANTING SOIL: All trees and shrubs shall be planted with a minimum of 12" topsoil around and beneath the rootball. Minimum topsoil shall be 6" for groundcover areas and 2" for sodded grass areas.
- 10. Planting soil to be a weed-free mixture of 50% sand, 40% muck, and 10% Canadian peat. All plant material to receive planting soil as per details.
- 11. Contractor is responsible for determining all utility locations and installing facilities so as to not conflict. All damage to existing utilities or improvements caused by Contractor shall be repaired at no additional cost to the Owner
- 12. Contractor to notify "Sunshine State One Call of Florida, Inc." at 1-800-432-4770 Two Full Business Days prior to digging for underground utility locations.
- 13. Contractor shall be responsible for providing final grading of all associated planting areas.
- 14. After final grade, area to be raked to 6" depth and all rock and foreign inorganic materials removed and disposed of properly off-site.
- 15. All planting holes to be hand dug except where machine dug holes will not adversely affect or damage utilities or improvements (see note 8).
- 16. No plunging of any tree or palm will be accepted. All plants to be planted at the nursery grade or slightly higher.
- 17. Contractor shall stake & guy all trees and palms at time of planting as per the appropriate detail. Contractor is responsible for the maintenance and/or repair of all staking and guying during warranty period and removal & disposal of staking after establishment period.
- 18. Fertilizer for grass areas shall be NPK 16-4-8 @ 12.5 lbs/1000 s.f. or 545 lbs/acre. Nitrogen 50% slow release form & fertilizer to include secondary micronutrients.
- 19. SUBSTITUTIONS AND CHANGES: All substitutions and changes shall be approved in writing prior to installation. Any discrepancies between plans, site and specifications shall be brought to the immediate attention of the Landscape Architect, the owner and governing municipality.
- 20. WATERING: All plant material shall be watered in at time of planting in accordance with standard nursery practices. In addition, Contractor will continue watering of plant material until substantial completion and as needed thereafter for a period of 2 months.
- 21. All new plant material shall be guaranteed for 1 year from time of final acceptance of project. Any plant material not in a healthy growing condition will be replaced by the Contractor at no additional cost to the Owner within 10 days of notification. For all replacement plant material, the warranty period shall be extended an additional 45 days beyond the original warranty period. All trees that lean or are blown over, caused by winds less than 75 mph, will be re-set and braced by the Contractor at no additional cost to the Owner.
- 22. The successful bidder shall furnish to the Owner a unit price breakdown for all materials. The Owner may, at its discretion, add or delete from the materials utilizing the unit price breakdown submitted
- 23. No plant material will be accepted showing evidence of cable, chain marks, equipment scars, or otherwise damaged.
- 24. Plant material will not be accepted when the ball of earth surrounding its roots has been cracked, broken or otherwise damaged.
- 25. Root-prune all trees a minimum of (8) weeks prior to planting.
- 26. All plant material planted within the sight distance triangle areas (see plan) shall provide unobstructed cross-visibility at a horizontal level between 30 inches and 8 feet above adjacent street grade.
- 27. No canopy trees shall be planted within 12 feet of a light pole. No palm species shall be planted within 6 feet of a light pole.
- 28. Tree protection barricades shall be provided by Landscape Contractor around existing trees that may be impacted by the proposed construction. Prior to any construction a tree protection barricade inspection shall be conducted by the landscape architect, owner or governing municipality. Refer to landscape detail for tree preservation barricade fencing.
- 29. In all pedestrian areas, all trees and palms shall be maintained to allow for clear passage at an 8 foot clear trunk.
- 30. All landscape material shall be setback a minimum of 10' from any Fire Hydrant.
- 31. Contractor shall preserve all the existing trees near to the site of construction
- 32. Existing native soil within all landscape islands, interior landscape strips and perimeter landscape strips, adjacent to vehicular use areas, shall be excavated down to a depth of thirty (30) inches below existing grade, except for a 12" buffer from the inside of curb or pavement. A suitable planting mixture of fifty/fifty (50/50), sixty/forty (60/40) (sand/topsoil) or as otherwise indicated by a Registered Landscape Architect, shall either be backfilled in place of native soil or efficiently mixed with the native soil to create optimum environment for successful root development. If native soil is to be mixed, it shall first be screened to remove rocks and debris larger than one-half (1/2) inch in diameter prior to mixing. All properties under this section shall be required to have an open bed inspection prior to backfilling to insure the thirty (30) inch depth has been met."

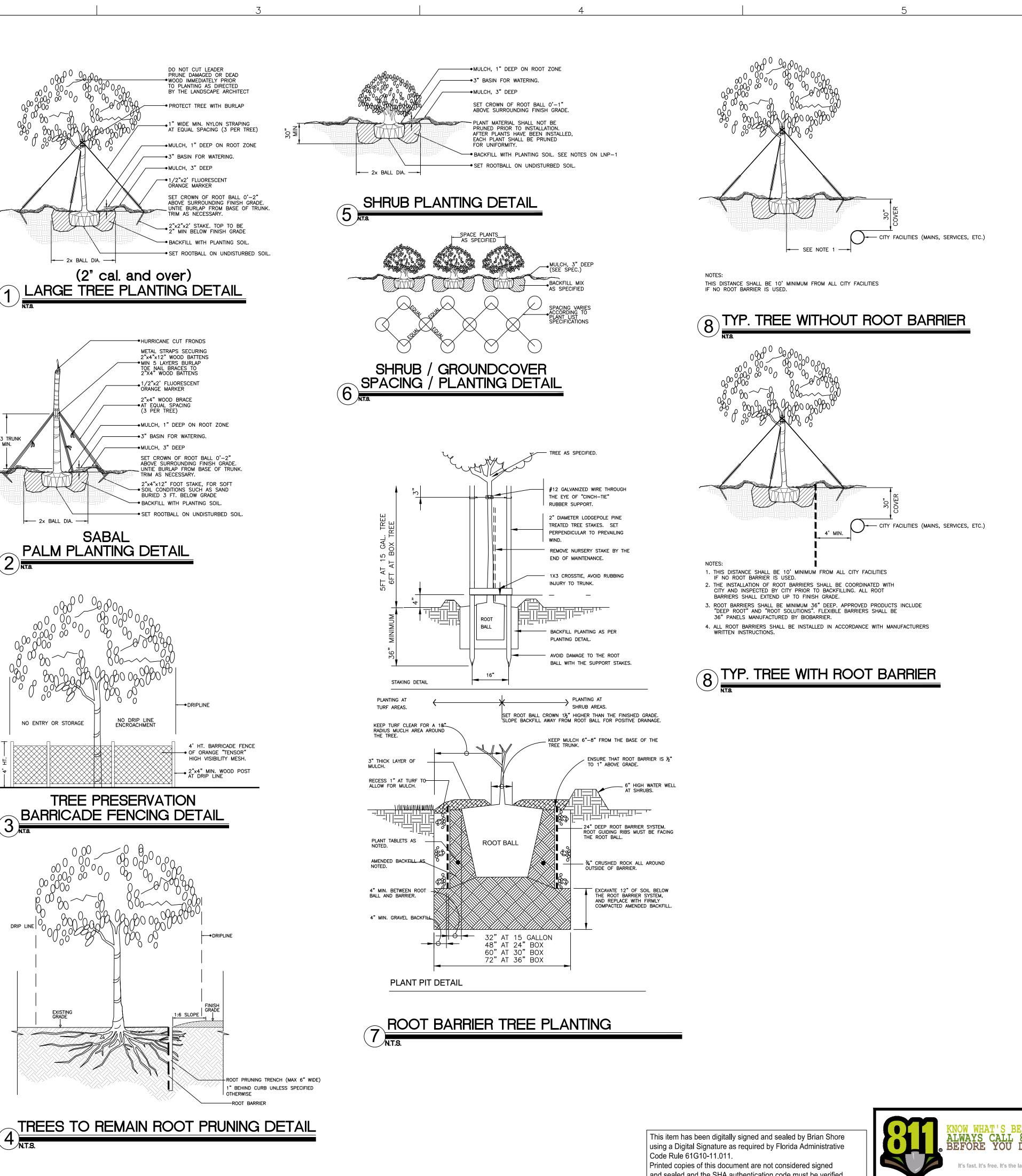
### 33.Root Prune notes:

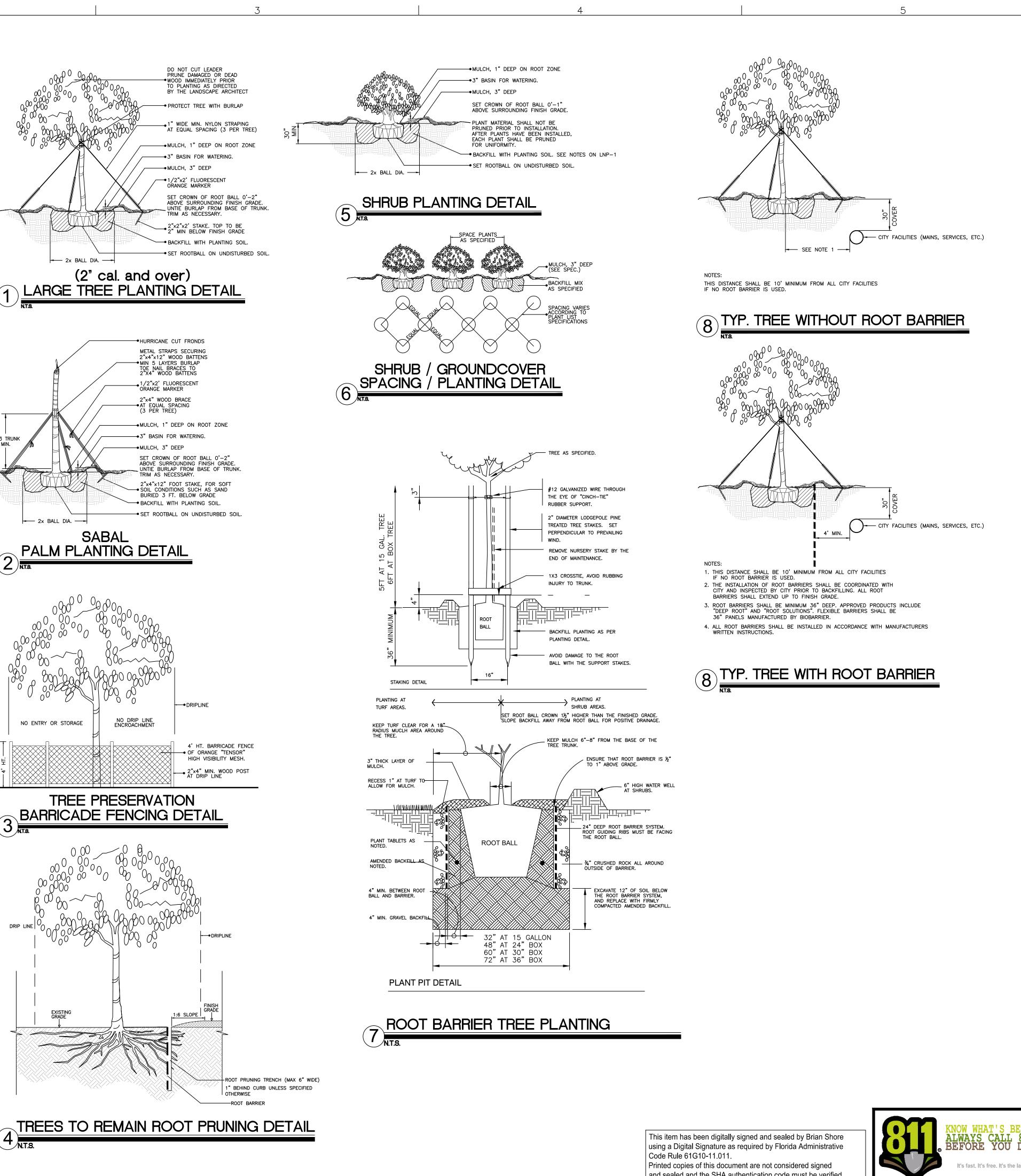
- a. Root pruning shall be done whenever there will be grading, cutting or compaction disturbance underneath the drip line of a tree. Prior to any work within drip line, contractors should contact Landscape Architect to coordinate work. Root pruning shall be done prior to disturbance of the site. No disturbance shall be done within a distance of 3x the diameter of the tree, due to stability concerns.
- b. Before disturbance, meet with Landscape Architect on site to confirm location of root pruning. Root pruning shall be conducted at an agreed upon location. This location will be marked on the ground between the disturbance and the tree, typically 6" closer to the tree than edge the disturbance.
- c. All roots 3/4"-1.5" diameters must be pruned. If 2.5" or larger roots are encountered, stop pruning in that area and contact Landscape Architect. Root pruning shall only be as deep as necessary to ensure the cutting of all roots which would be impacted by the disturbance.
- d. Root pruning shall be done with a sharp tool, in such a way that does not pull on the roots, but leaves smooth cuts. It is preferable to expose the roots prior to root pruning. After pruning, fill the area with quality topsoil and water until thoroughly soaked.
- e. Once exposed, roots must be covered within 8 hours. If roots will be left exposed for longer than 8 hours, they must be kept moist. One option is to put moist burlap over the exposed roots. Hydrate root prune trench to maintain moisture as necessary until relocation of plant material.
- f. Root pruning shall be done by or under the supervision of an ISA Certified Arborist, and meet or exceed ANSI A300 or approved Tree Care Industry Standards. A certified arborist must be onsite during the entirety of root pruning.
- g. All root pruning shall be done per ANSI A300

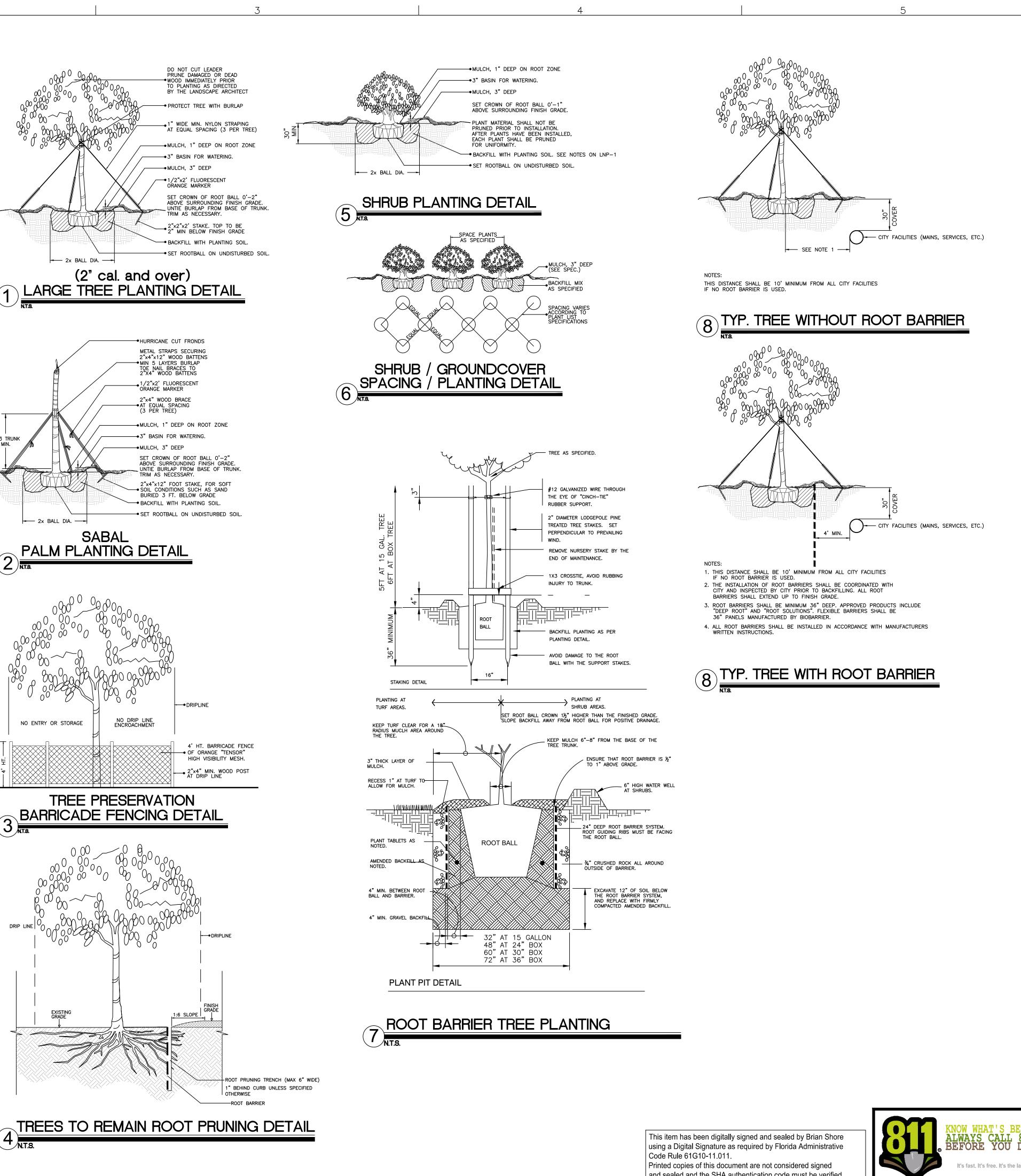


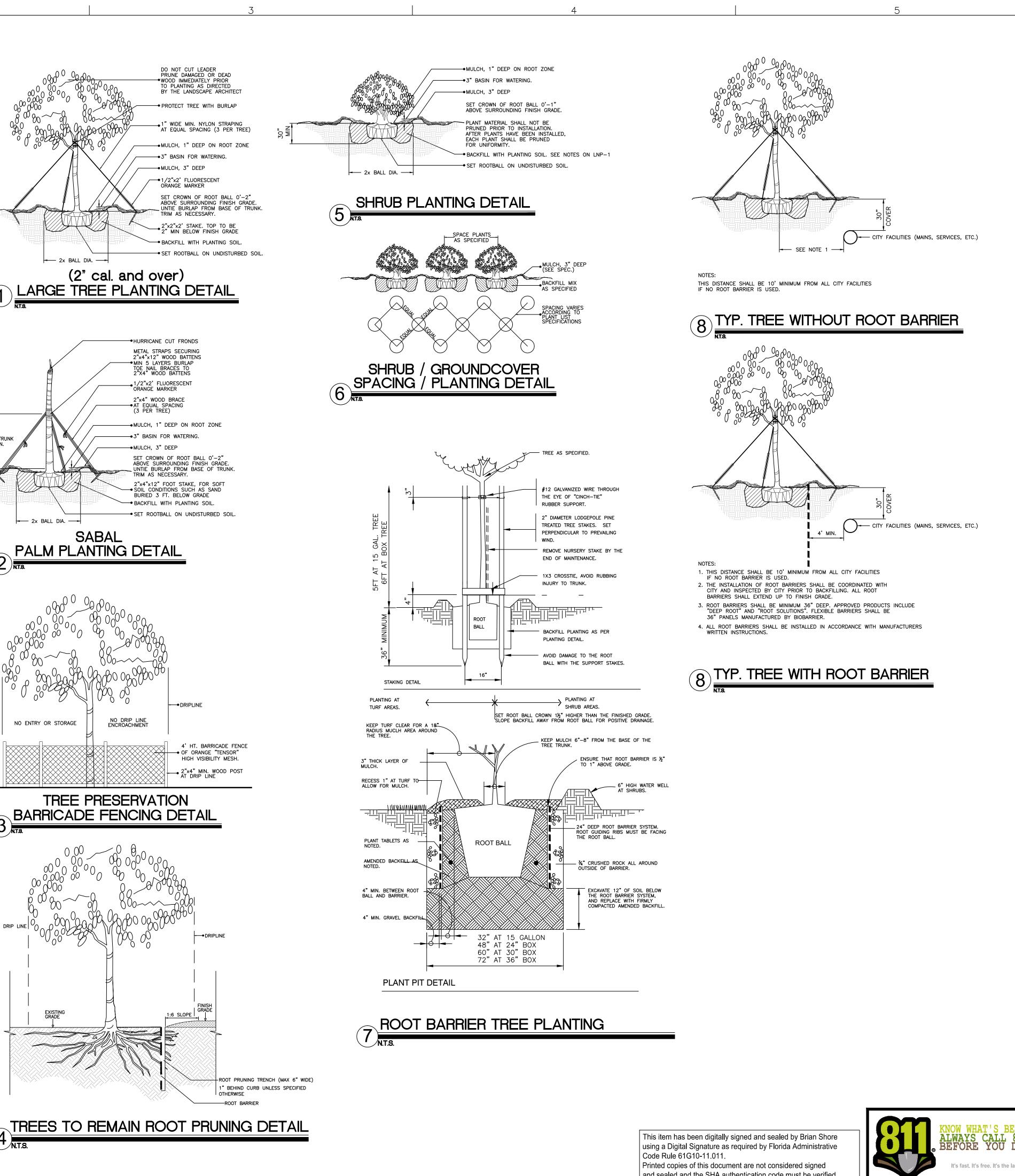
















and sealed and the SHA authentication code must be verified

on any electronic copies.

www.callsunshine.com