

**3.03 - PRUNING AND REPAIR**  
 Upon completion of the work under this contract, all trees and shrubs shall be pruned and any injuries repaired. The amount of pruning shall be limited to the minimum necessary to remove dead or injured twigs and branches and to compensate for the loss of roots as a result of transplanting operations. Pruning shall be done in such a manner as not to change the natural habit or shape of the plant, however, no plants applied under this contract shall be pruned back to such extent that it no longer meets specifications. All cuts shall be made flush, leaving no stubs. On all cuts over three-fourths inch (3/4") in diameter and bruises or scars on the bark, the injured cambium shall be traced back to living tissue and removed; wounds shall be smoothed and shaped so as not to retain water and the treated area shall be coated with an acceptable tree wound paint.

**3.04 - OBSTRUCTION BELOW GROUND OR OVERHEAD**  
 A. It is not contemplated that planting shall be done where the depth of soil over underground construction and obstructions is insufficient to accommodate the roots or where pockets of impervious soil will require drainage. Where such conditions are encountered in excavation of planted areas and where the obstruction cannot be removed by hand methods in the course of digging plant pits of the usual size, and where trees to be planted are found to be under overhead wires, other locations for the plant material may be designated by the owner.  
 B. Removal of underground obstructions, relocation of construction and provision of drainage for planting areas shall be done only as directed by the owner.  
 C. If changes in the location of the work, or if the removal of obstructions involves additional work, the contractor shall not proceed until authorized in writing by the owner.

**3.05 - NEW PLANTING**  
 A. Layout  
 New plantings shall be located where shown on the plans except where obstructions below ground or overhead are encountered or where changes have been made in the construction. Necessary adjustments shall be made only after approval by the owner. No planting shall be placed closer than two feet (2') to pavements or structures, except where indicated.  
 B. Planting Pits  
 Reasonable care shall be exercised in digging and preparing planting pits. Pits shall be unnecessarily exposed to elements or physical damage. Plant pits with vertical sides shall be excavated for plants, except for heister and plants specifically designated on the plans to be planted in pits. Diameter of pits for plant material, trees, and shrubs shall be at least twice the width of the diameter of the ball or spread roots. The depth of pits for trees and shrubs shall be sufficient to accommodate the ball or roots when the plant is set in finished grade allowing for compaction, prepared soil in the bottom of the pit.  
 C. Percolation Tests  
 Subsurface conditions have not been included as part of the project, therefore, the contractor shall make percolation tests as may be necessary to determine if subsurface drainage conditions in landscape areas are so poor as to support moisture conditions potentially fatal to planting. The following procedure is recommended:  
 Wait at least twenty-four (24) hours after rain and dig test pit twelve inches (12") square or twelve and one-half inches (12-1/2") in diameter to depth of bottom of plant trench or pit; remove all loose soil (if standing water is visible, notify the owner).  
 Quickly fill bottom with six inches (6"), approximately three and one-fourth gallons (3-1/4 gal.) water.  
 3. Record length of time from filling until disappearance of water and divide number of minutes by six (6) to give average time of one inch (1") fall.  
 4. Compare one inch (1") fall time with the following table:  
 a. One inch (1") in zero to three (0 - 3) minutes indicates rapid absorption.  
 b. One inch (1") in three to five (3 - 5) minutes indicates medium absorption.  
 c. One inch (1") in five to thirty (5 - 30) minutes indicates slow absorption.  
 d. One inch (1") in over sixty (60) minutes indicates impervious soil.  
 5. If test indicates soil to be semi-impervious or impervious, or if water is initially found in test pit, notify the owner in writing before proceeding further.  
 6. If the contractor does not make tests at representative locations and file records or results with the owner, or if he plants in areas shown to have poor drainage without a written release from the owner, he shall be liable for any further guaranteed replacements due to subsurface water damage.  
 7. If the contractor makes proper tests and files complete records indicating semi-impervious soil or worse conditions, he will not be held responsible for future subsurface water damage to work of this contract. The owner may observe the testing at any time, and shall be informed in advance of the time and place of testing.

**3.07 - INSPECTION FOR ACCEPTANCE**  
 A. Substantial Completion  
 Substantial completion is determined when installed material is alive and in a healthy condition.  
 B. Inspection  
 Inspection of the work of planting to determine completion of contract work will be made by the owner at the conclusion of the maintenance period upon written notice requesting such inspection submitted to the owner at least ten (10) days prior to the anticipated date.  
 C. Acceptance  
 After inspection, the contractor will be notified by the owner of acceptance of all work of this section, or, if there are deficiencies, of the requirements for completion of the work. Maintenance of other work remaining to be done shall be subject to re-inspection before acceptance. Maintenance of all work will be required by the contractor until the entire plantings have been accepted by the owner.  
 D. Acceptance In Part  
 The work of planting may be accepted in part by the owner upon written acceptance by the owner clearly stating the portion accepted and the conditions of the acceptance. This in no way voids the replacement on plants in the "Planting Guarantee and Replacement".

**3.08 - PLANT GUARANTEE AND REPLACEMENT**  
 A. Guarantee  
 Ten percent (10%) of the total landscape costs shall be withheld for a period of twelve (12) months from acceptance to ensure replacement of plant material not meeting the guarantee. Provided that plants are maintained in accordance with the contractor's maintenance schedule, plants shall be guaranteed for one (1) year and shall be alive and in satisfactory growth at the end of the guarantee period.  
 B. The contractor shall provide the owner with a written detailed outline for maintenance for the first year. This shall cover all plant requirements needed to assure healthy material at the conclusion of the guarantee period.  
 C. Replacement  
 At the end of the guarantee period, inspection will be made by the owner upon written notice requesting such inspection submitted by the contractor at least ten (10) days before the requested date. Any plant required under this contract that is dead or not in satisfactory growth, as determined by the owner, shall be removed from the site; these and any plants missing due to the contractor's negligence, shall be replaced as soon as conditions permit, but during the normal planting season. At the successful completion of this work the ten percent (10%) retention shall be released.  
 D. Materials and Operations  
 All replacements shall be plants of the same kind and size as specified in the plant list. They shall be furnished and planted as specified under "New Planting". The cost of such replacements shall be borne by the contractor.  
 E. The contractor shall visit the site on his own schedule during the one (1) year guarantee period to determine if proper maintenance is being conducted. If the contractor determines that the owner is not performing proper maintenance, then he shall outline in writing, in detail, his concerns.

**3.09 - SUBMITTALS**  
 The contractor shall submit results of pH tests and his plans for correcting the pH to the owner and the results of the percolation tests prior to beginning planting operations.

END OF SECTION

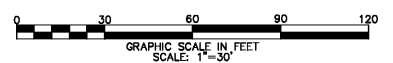
**SECTION 02830 - PLANTING**  
**PART ONE - GENERAL**  
 1.01 - SCOPE  
 This section includes furnishing all materials, equipment, and labor necessary for the installation of trees and shrubs; protection, maintenance, guarantee and replacement of plants; and all related items required to complete the work shown on the drawings and as specified.  
**PART TWO - PRODUCTS:**  
 2.01 - TOPSOIL  
 Topsoil shall be tested for the pH and corrected, if necessary, before planting operations are started. Test results shall be submitted to the Owner/Landscape Architect prior to beginning planting operations.  
 2.02 - TOPSOIL TO BE FURNISHED  
 The contractor shall furnish, at his expense, additional topsoil to properly install all work as specified and as shown on the drawings. The contractor shall provide a soil analysis and report for any area which topsoil is to be stripped and replaced for this project. Topsoil shall have a "high" rating in each of the basic nutrients tested and a nitrogen content of 0.15 to 0.20. Necessary additives shall be incorporated in a proper quantity as recommended by soil analysis or as necessary to bring the soil supplied up to standards specified. Topsoil shall be from naturally well drained areas. It shall be classified as a loess, silt loam, clay loam or a combination thereof, as determined by the Bureau of Plant Industry, Soils and Agricultural Engineering, USDA. Topsoil shall be a clean, free of weed seed, and shall be a mixture of subsoil and shall be clean.  
 2.03 - BASIC SLAG AND AGRICULTURE SULPHUR  
 Basic slag and agricultural sulphur for correcting soil pH shall be standard grade.  
 2.04 - FERTILIZER OR MANURE  
 Fertilizer shall be of the highest quality, weed seed free, and commercially bagged.  
 MANURE: Sludge from the Municipal Sewer Treatment Plant may be used in lieu of cow manure, if properly processed and marketed for this specific purpose.  
 2.05 - COMMERCIAL FERTILIZER  
 Commercial fertilizer shall be 15-15-15 (50% organic) formula with trace elements and shall conform to the applicable State Fertilizer Laws. It shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original, unopened containers, each bearing the manufacturer's guaranteed analysis. Any fertilizer which becomes caked or otherwise damaged, making it unsuitable for use, will not be accepted.  
 2.10 - TYPE OF PROTECTION TO ROOTS

**A. Balled and Burlapped Plants**  
 Plants designated "B & B" in the plant list shall be balled and burlapped. They shall be dug with firm, natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding root system necessary over all be firmly wrapped with burlap or similar material and bound with twine, cord or wire mesh. Where necessary to prevent breaking or cracking of the ball during the process of planting, the ball may be secured to a platform.  
 The balls of "B & B" plants which cannot be planted immediately on delivery shall be covered with moist soil or mulch, or other protection from drying winds and sun.  
**B. Container Plants**  
 Container grown plants in cans or pots of equal quality as balled and burlapped plants may be substituted in lieu thereof. The plants in the containers shall be delivered to the site and remain in the containers until planted. Plants in containers that are severely root bound shall not be acceptable. All plants shall be carefully removed from their containers in such a manner not to injure the roots.  
**2.11 - SAMPLES, TESTS AND INSPECTIONS**  
 A. Notice of Sources  
 Within ten (10) days following acceptance of the bid, the owner shall be notified of the sources of the materials required or desired to be inspected or tested.  
 B. Topsoil to be Furnished  
 The owner reserves the right to inspect the topsoil to be furnished, to determine whether or not it meets the requirements specified, and approve the depth to which it may be stripped. At the time of inspection, the contractor shall be required to take representative soil samples from several locations in the area under consideration. Tests will be made by a State or Commercial Soil Testing Laboratory using methods approved by the Association of Official Agricultural Chemists or the State Agricultural Experimental Station. Delivery of topsoil may begin after approval of the sample. Soil test results shall be submitted to the Owner/Landscape Architect prior to beginning planting operations.  
 C. Plants  
 The contractor shall be responsible for all certificates of inspection of plant materials that may be required by Federal, State or other authorities to accompany shipments of plants. Inspection of plants to be balled and burlapped may be made at the place of growth. All plants must be inspected and approved before they are planted. Inspection and approval by the owner of plants at the place of growth or upon delivery shall be for quality, size and variety only and shall not in any way impair the right of rejection for failure to meet other requirements during progress of this work.

**PART THREE - EXECUTION**  
 3.01 - TIME OF PLANTING  
 It is the responsibility of the contractor to coordinate all phases of the planting. Planting operations shall be conducted under favorable weather conditions during the next season or seasons which are normal for such work. At the option and on the full responsibility of the contractor, planting operations may be conducted under unseasonable conditions without additional compensation.  
 3.02 - SPRAYING  
 Plant material shall be sprayed, as may be necessary to control diseases and insects and to prevent their spread to other plantings. Materials and methods employed shall be as are commonly used to control the diseases and pests found present and shall not be injurious to person or structures.

**D. Planting Mixture**  
 Soil used in planting shall be topsoil, as herein before specified, or suitable existing soil, either of which shall be thoroughly mixed with one (1) part peat and one (1) part manure to five (5) parts soil. Very poor soils, gravel, hardpan or other soil injurious to plants shall not be used. Except for ericaceous plants, very acidic or sour soil (having a pH of less than six (6)) shall be thoroughly mixed with sufficient slag to produce a slightly acid reaction (a pH of 6.0 to 6.5). Soil used in planting shall be thoroughly mixed with five pounds (5 lbs.) of 16-4-12 (50% organic) formula commercial fertilizer per cubic yard.  
**E. Excess Soil**  
 Excess excavated soil from planting operations shall be disposed off the site or as directed by the owner.  
**F. Setting Plants**  
 Unless otherwise specified, all plants shall be planted in pits, centered, and set on compacted planting mixture to such a depth that the finished grade level at the plant after settlement will be the same as that at which the plant was grown. They shall be planted upright and faced to give the best appearance or relationship to adjacent structures. No burlap shall be pulled from under the balls. Platform wire and surplus binding from top and sides of the balls shall be removed. Roots shall be spread in their normal position. All broken or frayed roots shall be cut off evenly. Planting mixture shall be placed and compacted carefully to avoid injury to roots and to fill all voids. When the hole is nearly filled, add water as necessary and allow it to soak away. Fill the holes to finished grade and form a shallow saucer around each plant by placing settles, additional soil shall be filled in to the level of the finished grade.  
**G. Mulching**  
 All plants shall be mulched with a three inch (3") layer of pine straw within two (2) days after planting. This mulch shall entirely cover the area of the planting pit, bed, or saucer around each plant.

**3.06 - MAINTENANCE**  
 Maintenance shall begin immediately following the last operation of installation for each plant and shall continue in accordance with the following requirements: New planting shall be protected and maintained until installation of all planting is completed plus a minimum of ninety (90) days. Maintenance shall include watering, weeding, cultivating, mulching, removal of dead material, re-inserting plants to proper grades or upright position and restoration of the planting saucer, re-staking or additional staking and other necessary operations. If planting is done after lawn preparation, proper protection to lawn areas shall be provided and any damage resulting from planting operations repaired promptly.

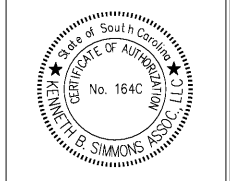


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REGISTERED LANDSCAPE ARCHITECT  
 No. 4



CERTIFICATE OF AUTHORIZATION SEAL

REVISIONS	DATE	DESCRIPTION
	3/22/2017	Revised to add additional sheets
	4/18/2017	Revised Per Public & Utility company comments

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**Publix**  
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**LANDSCAPE PLAN & PLANTING SPECIFICATIONS**  
 TMS 007800-02-005, 006, 013, 084, 095, 116  
 BOOK NO. N/A SF NO. 245-19A  
 PROJECT NO. 1920 SHEET NO. L3  
 DATE 3/15/2017 39 of 43