

PART 1 GENERAL

1.01 WORK INCLUDED

- A. The scope of the work for the landscape contractor for the project shall include the provision of all labor, materials and equipment required to complete all tasks associated with landscape and irrigation installation as shown on the drawings or noted herein.
B. Subgrade Elevations: Excavation, filling and grading required to establish elevations 4" lower than elevations and contours shown on drawings are not specified in this Section.
C. Finish Grade Elevations: 1 inch below top of pathway edging.

1.02 QUALITY ASSURANCE

- A. Subcontract landscape work to a single firm specializing in landscape work.
B. The landscape contractor shall be responsible for ensuring all work (including delivery, storage and disposal of their materials) is performed in compliance with applicable jurisdictional codes.
C. The landscape contractor shall be responsible for familiarizing themselves with project plans and scopes of work related to associated trades to be performed by others in order to identify key coordination items including, but not limited to, site access, material storage, and scheduling and sequencing of work.
D. The plant quantities shown on the landscape contract documents are for the convenience of the landscape contractor. The landscape contractor is responsible for verifying all quantities and reporting any discrepancies to the Landscape Architect for clarification prior to contract award and at commencement of work.
E. The landscape contractor shall be responsible for the protection of all adjacent work, materials and equipment from damage due to their activities.

1.03 SUBMITTALS

- A. Source Quality Control:
1. Ship landscape materials with certificates of inspection required by governing authorities.
2. Do not make substitutions. If specified landscape material is not obtainable, submit to Landscape Architect proof of non-availability and proposal for use of equivalent material.
3. Analysis and Standards: Package standard products with manufacturer's certified analysis.
4. Trees, Palms and Shrubs: Provide healthy, vigorous stock free of disease, insects, eggs, larvae, and defects such as decay, knots, sun-scald, injuries, abrasions, and disfigurement.

1.04 DELIVERY, STORAGE AND HANDLING

- A. Packaged Materials: Deliver packaged materials in original containers showing weight analysis and name of manufacturer.
B. Sod: Time delivery so that sod will be placed within 24 hours after stripping.
C. Trees, palms and shrubs: Provide freshly dug trees, palms and shrubs.
D. Deliver trees, palms and shrubs after preparations for planting have been completed and plant immediately.

1.05 JOB CONDITIONS

- A. Proceed with and complete landscape work as rapidly as portions of site become available.
B. Utilities: Determine location of underground utilities and perform work in a manner which will avoid possible damage.
C. Excavation: When conditions detrimental to plant growth are encountered, such as rubble fill, adverse drainage conditions, or obstructions, notify Landscape Architect before planting.
D. Planting Schedule: Where applicable, prepare a proposed planting schedule.
E. Coordination with Lawns: Plant trees, palms and shrubs after final grades are established and prior to planting of lawns.

1.06 SPECIAL PROJECT WARRANTY

- A. Warrant laws through specified maintenance period, and until final acceptance.
B. Warrant trees for a period of one year after date of substantial completion against defects death and unsatisfactory growth, except for defects resulting from neglect by Owner, abuse or damage by others, or unusual phenomena or incidents which are beyond Landscape Contractor's control.
C. Warrant shrubs for 1 full year after date of substantial completion.
D. It is understood that the warranty is to be inclusive of all labor, materials and equipment necessary for the replacement of any plant materials required.
E. Should the landscape contractor be required to replace any damaged, diseased, dying or dead plant material it is understood that the replacement material is to be of the same species, size and quality as that originally specified on the Landscape Plan.

PART 2 PRODUCTS

2.01 TOPSOIL

- A. If topsoil is not available on site it must be furnished as specified.
B. Topsoil shall be friable fertile soil with representative characteristics of area soils.
C. Peat Humus or Peat Moss: Texture, moisture and pH range suitable for intended use.
D. Humus Soil Conditioner: Consisting of yard trimmings and biosolids co-compost.

2.02 SOIL AMENDMENTS

- A. If necessary to bring soil into above specified limits:
B. Lime: Natural limestone (Dolomite) containing not less than 85% of total carbonates, ground so that not less than 90% passes a 10-mesh sieve and not less than 50% 20-mesh sieve.
C. Peat Humus or Peat Moss: Texture, moisture and pH range suitable for intended use.

2.03 PLANT MATERIAL

- A. Plant list/schedule is part of this specification section.
B. Quality: Trees, palms, shrubs and other plants shall conform to the standards for Florida No. 1 or better as given in the latest edition of Grades and Standards for Nursery Plants, Florida Department of Agriculture.
C. Deciduous Trees: Provide trees of healthy, spread, and caliper listed or shown and with branching configuration for Florida No. 1 graded trees in Grades and Standard for Nursery Plants for type and species required.
D. Balled and burlap trees should be dug and prepared for shipment in a manner that will not damage roots, branches, shape and future development after planting.

- E. Coniferous and Broad-leaved Evergreens: Provide evergreens of size shown or listed Dimensions indicate minimum height, spread, and caliper.
F. The landscape contractor is responsible for confirming the availability of all the specified plant materials within 4(4) weeks of project award.
G. Root suckers on Live Oaks are not acceptable.
H. No double or multi-trunk trees unless otherwise specified.

2.04 GRASS MATERIALS

- A. Grass Seed: Provide fresh, clean, new-crop seed complying with established tolerance for purity and germination.
B. Sod: Provide strongly rooted sod free of weeds and undesirable native grasses, capable of growth and development when planted.
C. No muck-grown sod shall be utilized in detention areas.

2.05 MISCELLANEOUS LANDSCAPE MATERIALS

- A. Ground Cover: Provide plants established and well-rooted in removable containers or internal peat pots and with not less than minimum number and length of runners specified.
B. Anti-Erosion Mulch: Provide clean, dry, mulching hay or straw of coastal bermuda, pangola or bahia grass.
C. Match: Melaleuca can equal. The use of cypress mulch is prohibited.
D. Stakes and Guy's: When required provide stakes and deadmen of sound new hardwood or treated softwood free of knot holes and other defects.

PART 3 EXECUTION

3.01 LAYOUT

- A. Layout individual trees and shrub locations and areas for multiple plantings.
B. Stake locations and outline areas and secure Landscape Architect's acceptance before start of planting work.

3.02 PREPARATION OF PLANTING SOIL

- A. The landscape contractor is responsible for the preparation of soils within all planting areas inclusive of providing all imported soil materials, soil amendments, soil conditioners and fertilizers as required.
B. Before mixing, clean topsoil of roots, plants, sods, stones, clay lumps, and other extraneous materials harmful or toxic to plant growth.
C. Mix specified soil amendments and fertilizers with topsoil at rates specified.
D. For planting beds, mix planting soil either prior to planting or apply on surface of topsoil and mix thoroughly before planting.

3.03 PREPARATION FOR ALL PLANTING AREAS

- A. Eradicate weeds within the limits of all planting areas prior to beginning landscape installation.
B. Existing plant material to be removed, except where noted on the Landscape or Tree Disposition Plans.
C. Pre-fill to scarify soils in all planting areas to a minimum depth of 4".
D. All planters shall be excavated to a minimum depth to reach native soil and back-filled with a suitable soil consisting of fifty percent (50%) composted organic matter, well-mixed with native soil.
E. All roads and concrete, asphalt and other non-natural material to be removed from all planting areas prior to landscape installation.

3.04 PREPARATION FOR PLANTING LAWNS

- A. Preparation of Unchanged Grades: Where lawns are to be planted in areas that have not been altered or disturbed by excavating, grading, or stripping operations, prepare soil for lawn planting as follows.
B. Elsewhere: Loosen subgrade of lawn areas to a minimum depth of 4".
C. Spread planting soil mixture to minimum depth required to meet lines, grades and elevations shown, after light rolling and natural settlement.
D. Place approximately 1/2 of total amount of planting soil required.
E. Allow for soil thickness in areas to be sodded.

3.05 PREPARATION OF PLANTING BEDS

- A. Loosen subgrade and planting bed areas to a minimum depth of 12" using a cultimulcher or similar equipment.
B. Excavation for Trees and Shrubs: Excavate pits, beds and trenches with vertical sides and with bottom of excavation slightly raised at center to provide proper drainage.
C. Dispose of subsoil removed from landscape excavations.
D. For balled and burlapped (B & B trees and shrubs), make excavations at least half again as wide as the ball diameter and equal to the ball depth.

3.06 PLANTING TREES, PALMS AND SHRUBS

- A. Lay out individual trees, palm and shrub locations and areas for multiple plantings where required.
B. Set balled and burlapped (B&B) stock on layer of compacted planting soil mixture, plumb and center of pit or trench with top of ball at same elevation as adjacent finished landscape grades.
C. Balled and burlapped trees with natural burlap: pull back or remove at a minimum, the top 1/3 of the burlap from the root ball.
D. Trees in baskets: Remove wire baskets to a depth of 18" min.
E. If trees are to be containerized, root ball will be shaved at the periphery to remove all circling roots.
F. Set container grown stock as specified for balled and burlapped stock, except cut cans on 2 sides with an approved can cutter; remove bottoms of wooden boxes after partial backfilling so as not to damage root balls.

3.07 PRESERVED PLANT MATERIALS

- A. The contractor is responsible for protecting and maintaining all plant material to remain within the limits of construction as indicated on the plans.
B. No vehicle shall traverse this area nor shall any storage of materials or equipment be permitted within this protected area.
C. The contractor shall bear the sole responsibility of replacement for any damage to protected materials caused by construction activity without additional costs to the owner.

3.08 TRANSPLANTED PLANT MATERIALS

- A. Root prune all large canopy trees to be relocated prior relocation one half of the root system at a time and allow of adequate harden off time.
B. Transplanted Sabal Palms shall be hurricane cut and rootballs shall be wrapped in burlap or plastic if not being planted within a 24 hour period.
C. Palms of other species shall have their fronds tied together to prevent leaf damage and facilitate handling.
D. Planting hole for transplanted material should measure two times the diameter of the root ball.

3.09 PRUNING

- A. All pruning shall be done on the site before planting as directed by Landscape Architect.
B. Prune, thin out and shape trees and shrubs.
C. Prune trees to retain required height and spread.
D. Water sod thoroughly with a fine spray immediately after planting.

3.10 SODDING NEW LAWNS

- A. Lay sod within 24 hours from time of stripping.
B. Lay sod to form a solid mass with tightly fitted joints.
C. Water sod thoroughly with a fine spray immediately after planting.
D. Water sod thoroughly with a fine spray immediately after planting.
E. No muck-grown sod shall be utilized in detention areas.
F. Landscape Contractor is responsible for replacing any damaged sod.

3.11 MAINTENANCE

- A. The landscape contractor shall be responsible for the maintenance of all plant materials and the planting areas immediately after planting and until final acceptance by the owner.
B. Maintain trees, palms, shrubs and other plants until final acceptance but in no case less than following period: 30 days after substantial completion of planting.
C. Maintain trees, palms, shrubs and other plants by pruning, culling and weeding as required for healthy growth.
D. Remove and replace excessively pruned or malformed stock resulting from improper pruning.
E. Maintain lawns for not less than the period stated below, and longer as required to establish an acceptable lawn.

3.12 CLEANUP AND PROTECTION

- A. During landscape work, keep pavement clean and work area in an orderly condition.
B. Protect landscape work and materials from damage due to landscape operations, operations by other contractors and trades and trespassers.
C. Sodded lawns will be acceptable provided requirements, including maintenance, have been complied with, and healthy, uniform close stand of specified grass established, free of weeds, bare spots and surface irregularities (95% coverage required for acceptance).
D. The landscape contractor is responsible for returning to the site after a period of (1) one year to remove the staking from the trees and palms.

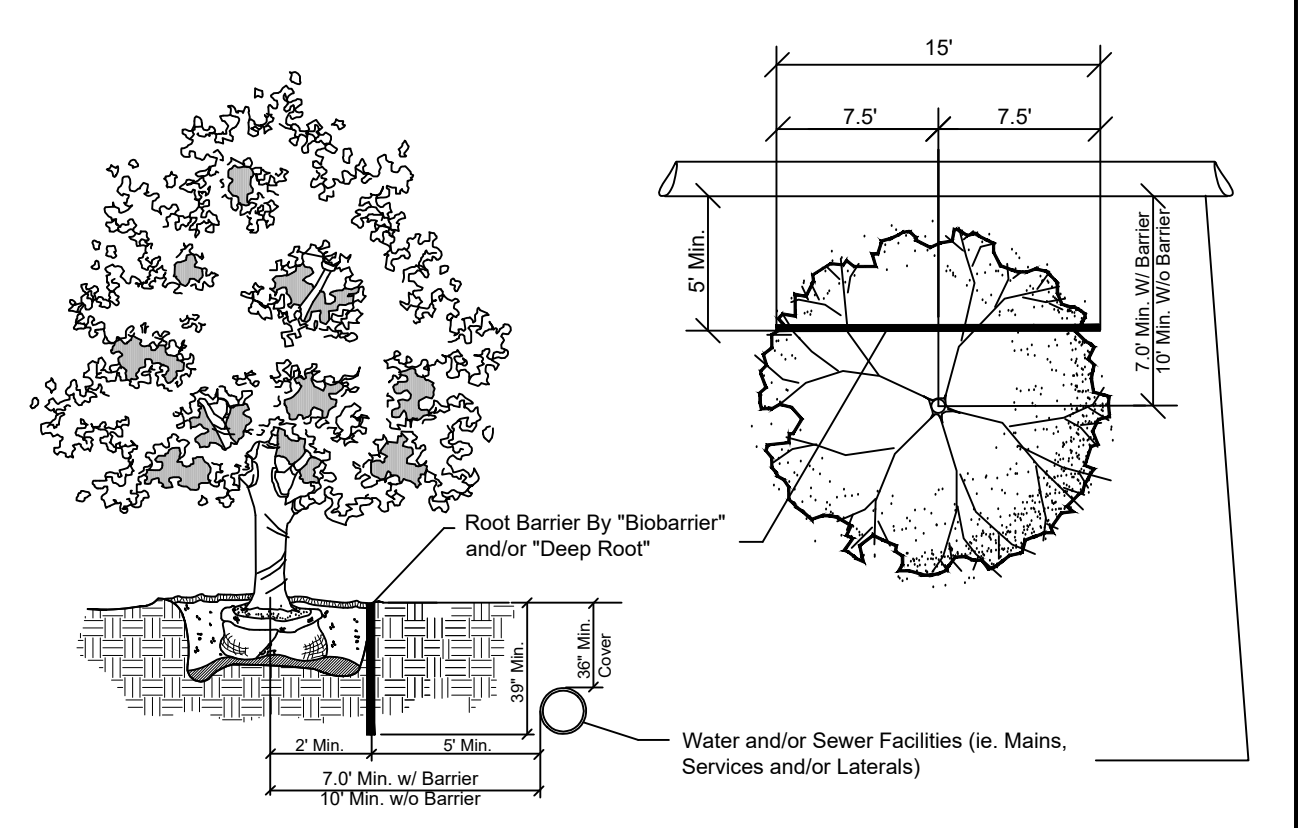
3.13 INSPECTION AND ACCEPTANCE

- A. When landscape work is completed, including maintenance, Landscape Architect will, upon request, make an inspection to determine acceptability.
B. Seeded lawns will be acceptable provided requirements, including maintenance, have been complied with, and healthy, uniform close stand of specified grass established.
C. Sodded lawns will be acceptable provided requirements, including maintenance, have been complied with, and healthy, well-rooted, even-colored, viable lawn is established, free of weeds, open joints and bare areas (95% coverage required for acceptance).
D. The landscape contractor is responsible for returning to the site after a period of (1) one year to remove the staking from the trees and palms.

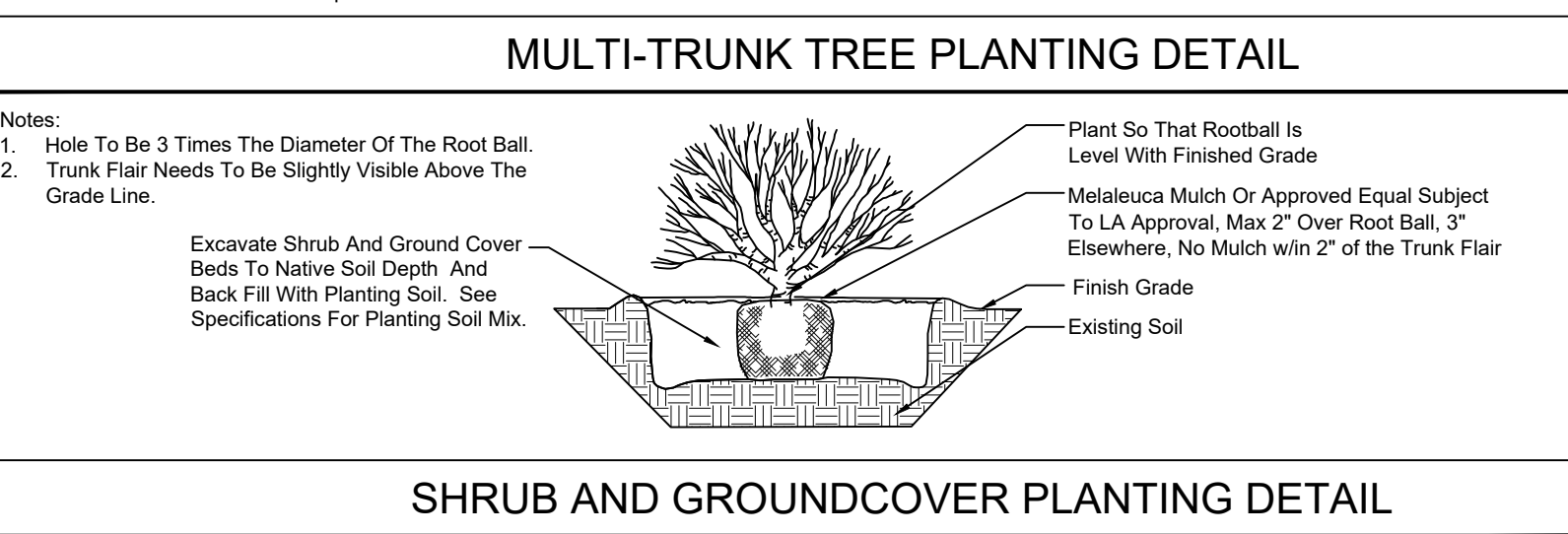
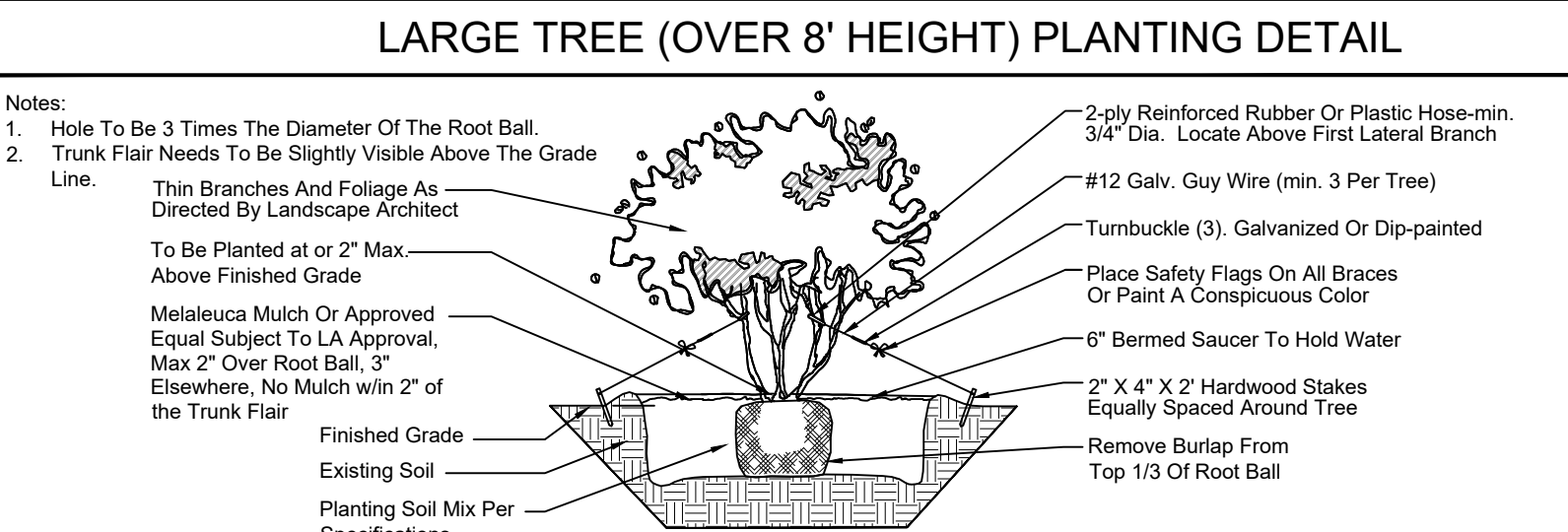
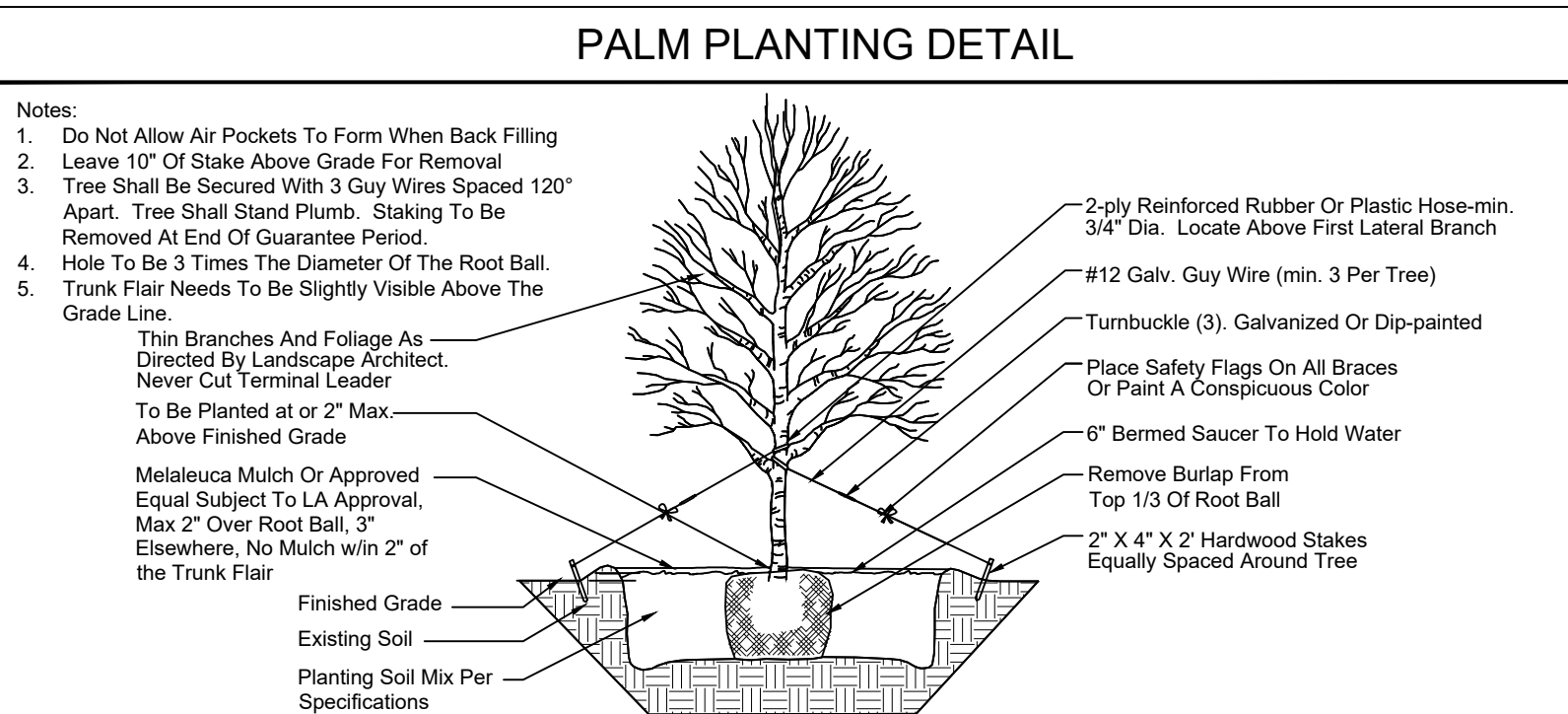
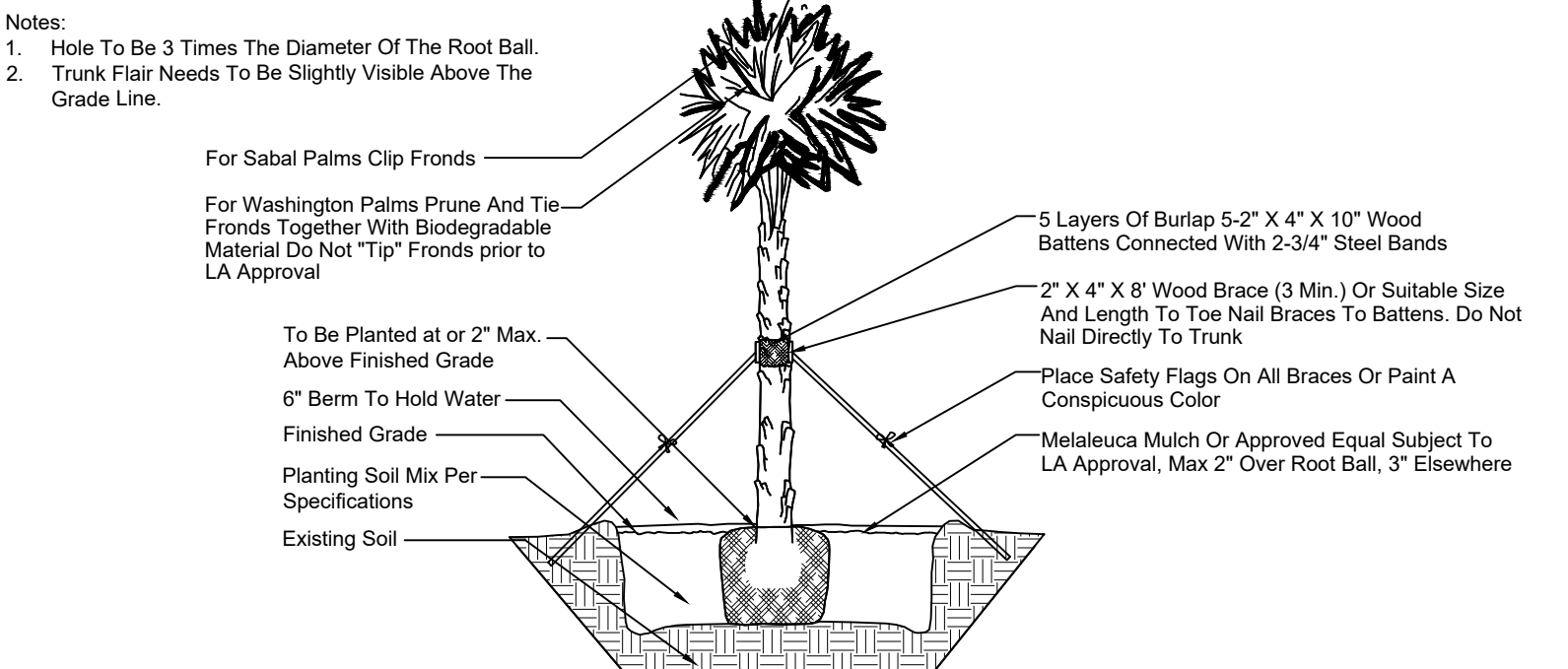
3.14 IRRIGATION

- A. An automatic irrigation system providing 100% coverage with 50% minimum overlap is to be designed and installed to maintain an established landscape.
B. Bubbler systems shall be provided on all trees.
C. The landscape contractor shall be responsible for providing supplemental irrigation through hand watering or other means (including temporary drip, water wands and soaker hoses) to help establish the new and salvaged material.
D. The landscape contractor is responsible for obtaining all necessary permits prior to installation.

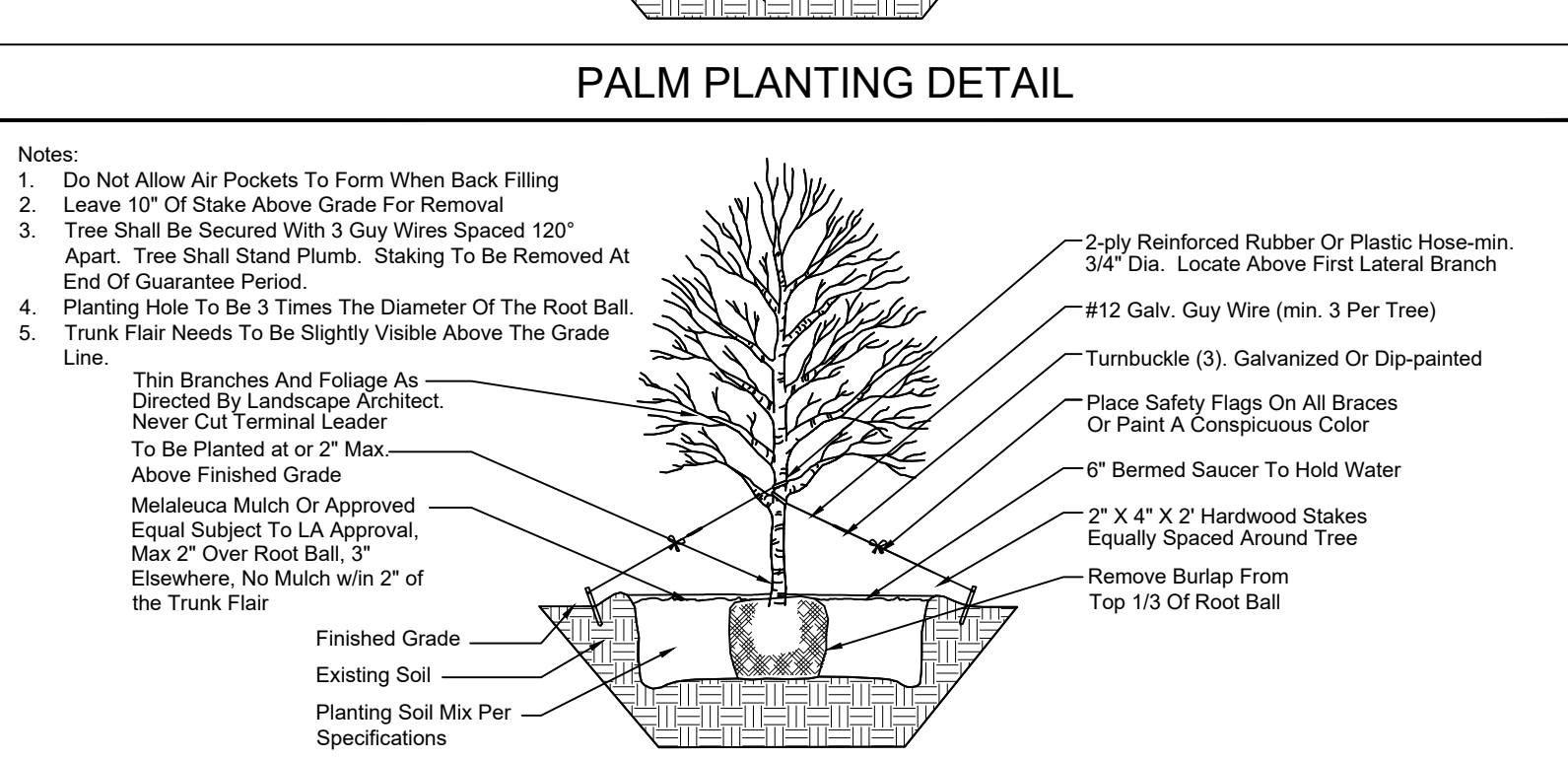
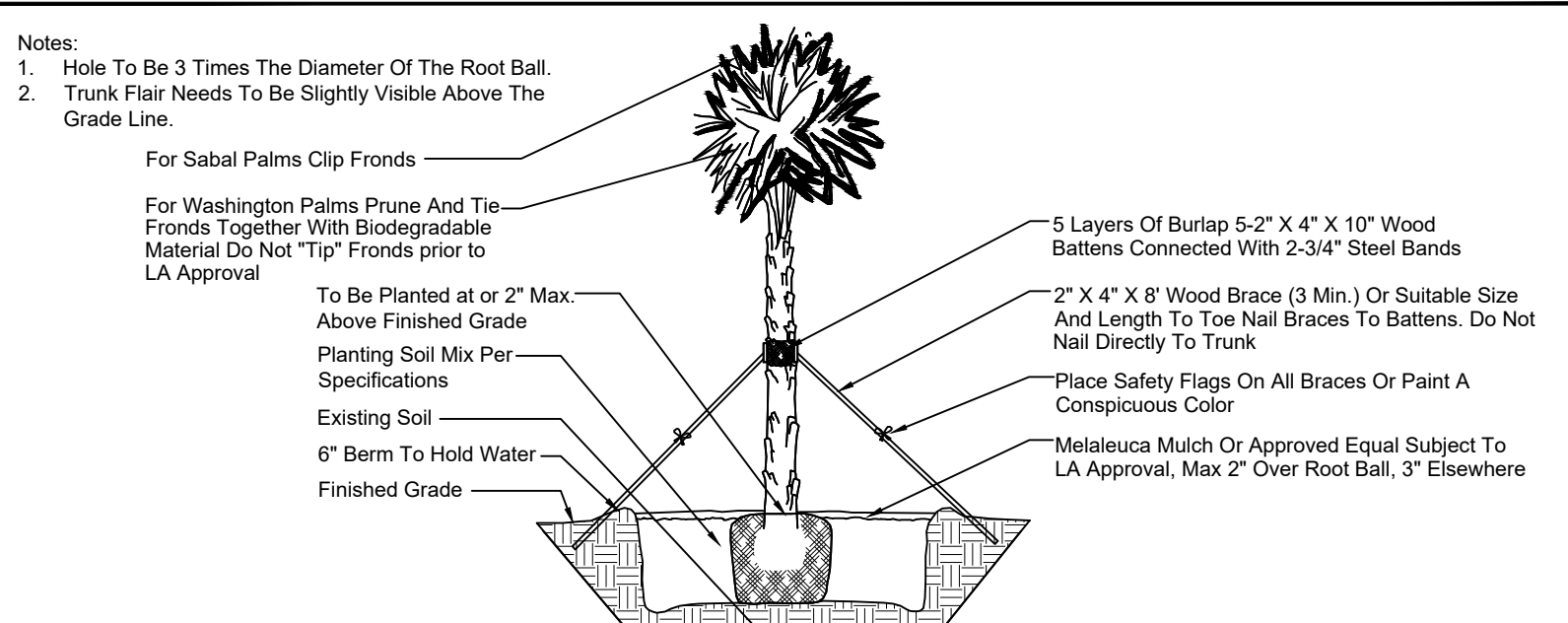
Additionally, trees are to be installed with a ten foot (10') separation from any water or sewer main and/or service, hydrants, and lift stations. If a ten foot (10') separation cannot be achieved, the tree can be installed with a root barrier system. Refer to the "Root Barrier" detail for installation requirements.



Planting Details



Transplant Details



SCHMIDT NICHOLS LANDSCAPE ARCHITECTURE AND URBAN PLANNING

1551 N. Flagler Dr, Ste 102 West Palm Beach, FL 33401 Phone: 561.684.6141 Email: info@snlandplan.com Website: www.snlandplan.com License No: LC26000232

Temporary FS 87 at Wells Res 21-21 The City of Riviera Beach, Florida

Table with Date: 05/03/21, Scale: NTS, Design By: MLD, Drawn By: MLD, Checked By: JES, File No: 1020.01, Job No: 20-08

Table with REVISIONS / SUBMISSIONS header and one entry: 06/02/21 Resubmittal

NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL SIGNED SEAL OF A FLORIDA LICENSED LANDSCAPE ARCHITECT.

Florida Registration No. LA 0001638 and Florida Registration No. LA 0001638

Landscape Specs LP-3 of 3