### **ORIGINATION FORM**

Proposed Revisions to a Standard Plans Index

(Please provide all information – Incomplete forms will be returned)

#### **Contact Information:**

Phone:

Date: June 26, 2019
Originator: **Ashley Hagan Binder** 

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#### Standard Plans:

Index Number: **580-001**Sheet Number (s): 1,2

Index Title: Landscape Installation

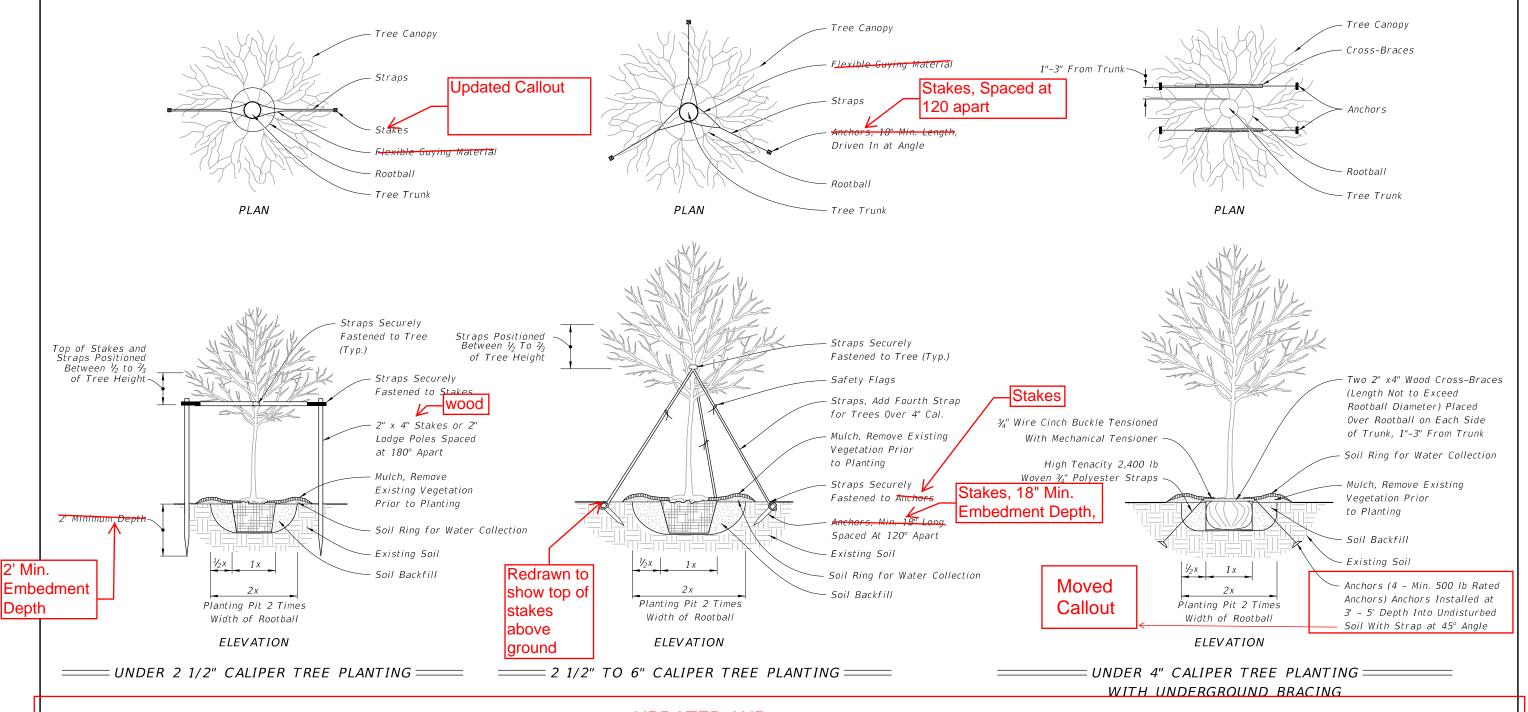
## Summary of the changes:

Modifications to bracing detail, overall clarifications. Clarification that bracing is intended for plant establishment purposes only. Clarification on lumber grade. Clarify band strength.

# **Commentary / Background:**

The detail for landscape installation is not intended to be a safety measure, rather to determine a standard, quality detail for root establishment purposes. There was a high wind event with trees falling into the travel way, partly due to the soil conditions, poor grade of lumber, but also due to the unusual weather. Changes are a result of the need to clarify to the intent of this detail, and also the quality/grade of materials used.

		Other Affected Offices / Documents: (Provide name of responsible personnel)
Yes	No •	Other Standard Plans –
		FDOT Design Manual – Ashley Hagan Binder
		Basis of Estimates Manual –
		Standard Specifications –
		Approved Product List –
		Construction –
		Maintenance –
Yes	N/A	Origination Package Includes: (Email or hand deliver package to Derwood Sheppard)
<b>1</b>		Redline Mark-ups
		Proposed Standard Plan Instructions (SPI)
		Revised SPI
		Other Support Documents
Implementation:		
Design Bulletin (Interim) DCE Memo Program Mgmt. Bulletin FY-Standard Plans (Next Release)		
Contact the Poadway Design Office for assistance in completing this form		



# GENERAL NOTES:

- 1. All dimensions 6" and less are exaggerated for illustrative purposes only. All dimensions provided for wood materials are nominal.
- 2. Remove plant containers prior to planting. If plants are not container grown, remove a minimum of the top 1/3 of burlap, fabric, or wire mesh.
- 3. Allow no more than 1" of soil to cover the uppermost root on all trees. Set the top of root ball 1"-2" above finish grade after settling and set plumb to the horizon.
- 4. Backfill with loosened existing soil or as shown in the plans. Remove rocks, sticks, or other deleterious material greater than 1" in any direction prior to backfilling. Water and tamp to remove air pockets. If existing soils contain excessive sand, clay, or other material not conducive to proper plant growth, contact Engineer prior to planting.

# **UPDATED AND**

- ADDED NOTES 5. Except when a permanent, subsurface or drip irrigation system is provided, construct soil rings at the outer edge of the planting pit, with a height of 3" and gently sloping sides. Do not pile soil on top of rootball.
  - 6. Construct a 3" deep layer of mulch placed 2" off the edge of the trunk flare, around the base of shrub, or solidly around ground cover. Never pile mulch against the tree trunk. with min. 600 lb. break strength.
  - 7. Install guying with minimum 1" wide nylon or polypropylene straps. Check straps monthly and adjust as required to eliminate girdling of tree. Locate all wood stakes or anchors beyond the edge of soil ring in undisturbed, soil and located below finished grade, unless otherwise specified. Alternate tree bracing and guying systems specified or approved 🊮 the Engineer 🦙 ay be used in lieu of the tree bracing and guying methods detailed on the Index. embed a min. of 18 lexistina
  - 8. Relocated Trees and Palms: Brace relocated trees and palms in accordance with the Contract Documents. Remove bracing at the conclusion of the contract or as directed by the Engineer. Bracing or straps must not damage or become embedded in the tree bark.

DESCRIPTION: REVISION - 11/01/19 11/01/18

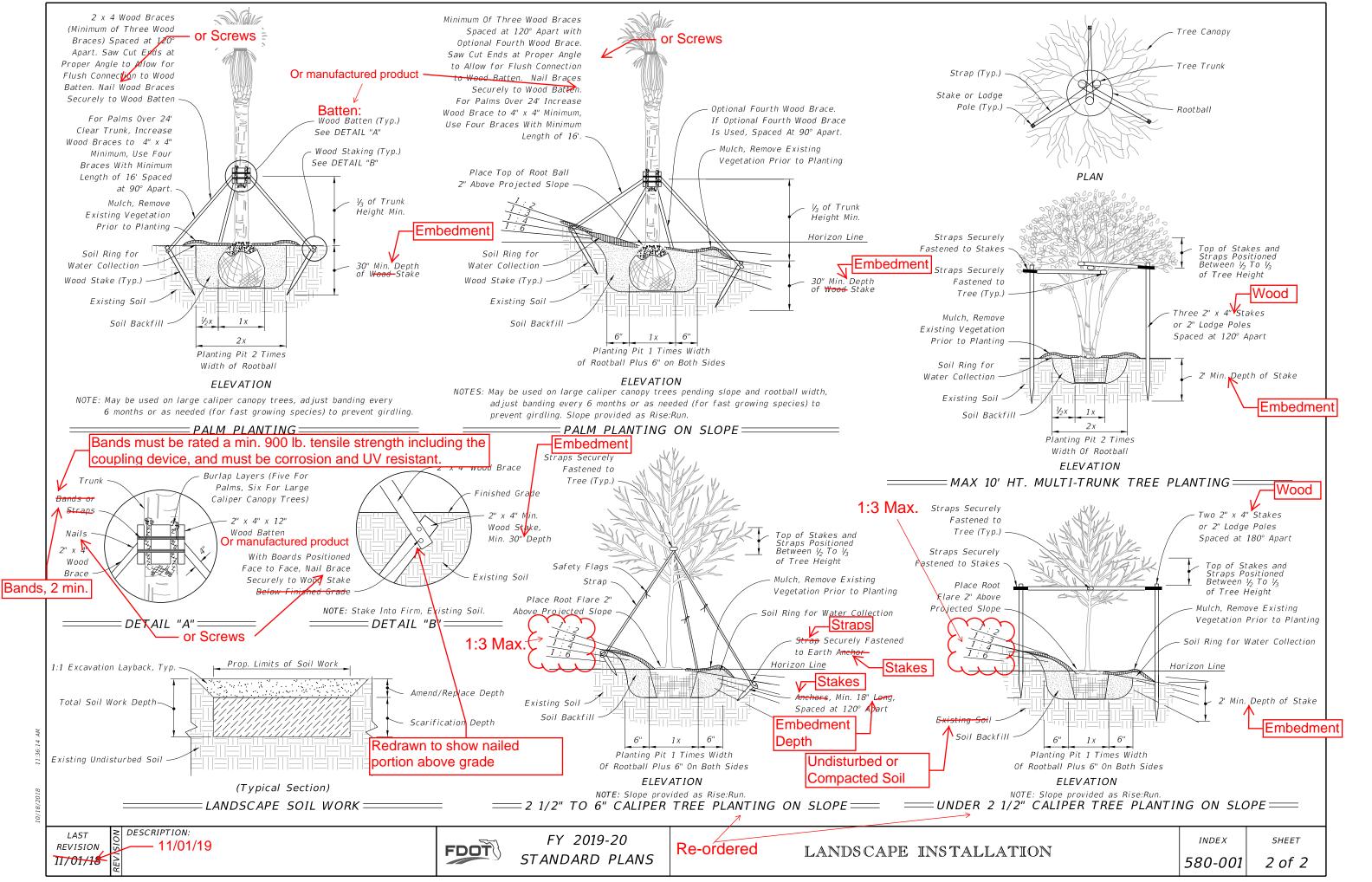
FDOT

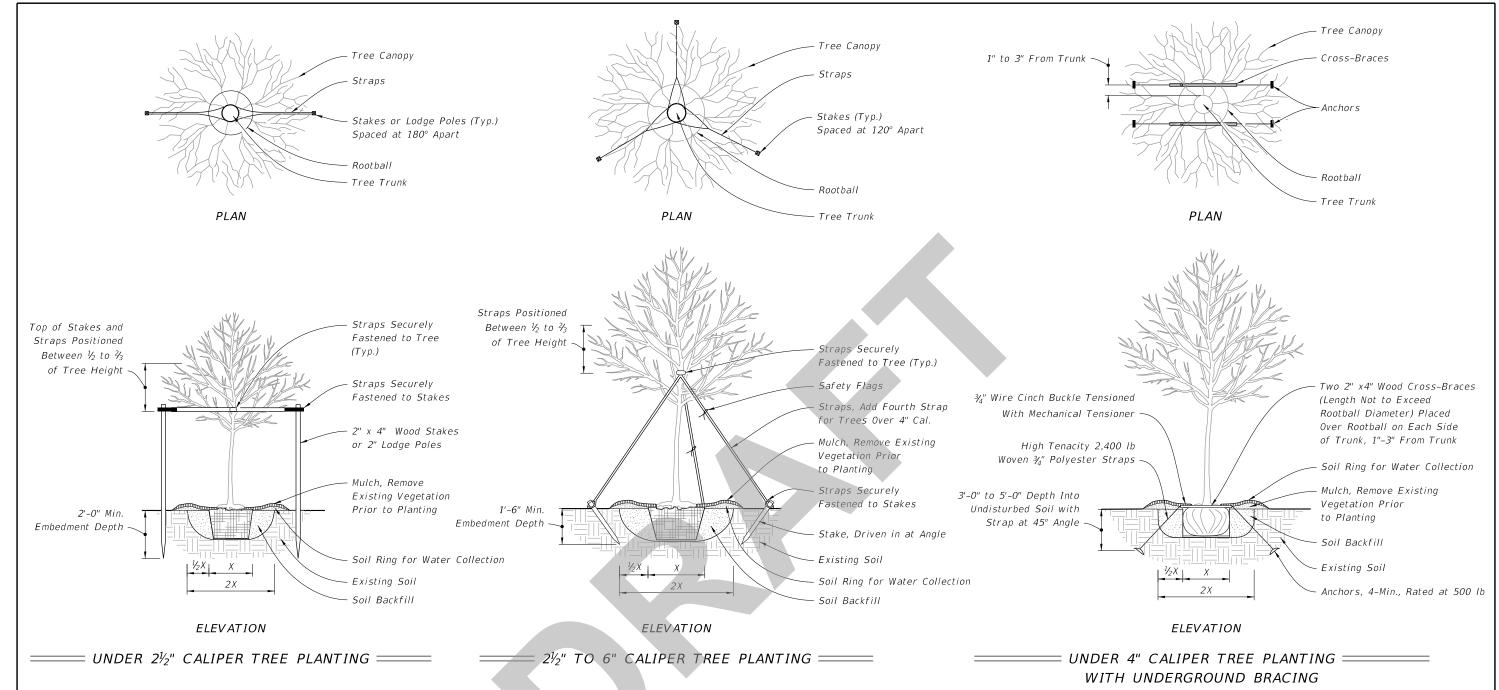
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#### GENERAL NOTES:

- 1. Staking guidelines are based on standard horticultural requirements and are provided for plant establishment purposes only. Details not intended to apply when bracing is intended to address safety considerations. When bracing for safety, refer to Designer generated signed and sealed details. These guidelines are not intended to apply when the tree or palm is within falling distance of a roadway, pedestrian or bicycle route, under extreme wind loads, non-standard soil properties, non-standard plant dimensions, or when rootball is anticipated to be greater than 4 feet diameter and planted on 1:3
- 2. All dimensions 6" and less are exaggerated for illustrative purposes only. Dimensions shown for wood materials are nominal. Slopes shown are Vertical: Horizontal.
- 3. Remove plant containers prior to planting. Remove a minimum of the top 1/3 of burlap, fabric, or wire mesh for plants not grown in containers.
- 4. Allow no more than 1" of soil to cover the uppermost root on all trees. Set the top of rootball 1"-2" above finish grade after settling and set plumb to the horizon.
- 5. Backfill with loosened existing soil or as shown in the plans. Remove rocks, sticks, or other deleterious material greater than 1" in any direction prior to backfilling. Water and tamp to remove air pockets. Contact the Engineer prior to planting if existing soils contain excessive sand, clay, or other material not conducive to proper plant growth.

- 6. Construct soil rings at the outer edge of the planting pit with a height of 3" and gently sloping sides unless a permanent, subsurface or drip irrigation system is provided. Do not pile soil on top of rootball.
- 7. Construct a 3" deep layer of mulch placed 2" off the edge of the trunk flare, around the base of shrub, or solidly around ground cover. Never pile mulch against the tree trunk.
- 8. Install guying with minimum 1" wide nylon or polypropylene straps with a minimum 600 lb. break strength. Check straps monthly and adjust as required to eliminate girdling of tree. Locate all wood stakes beyond the edge of soil ring in existing soil and embed a minimum of 18" below finished grade unless otherwise specified. Alternate tree bracing and guying systems specified or approved by the Engineer may be used in lieu of the tree bracing and guying methods
- 9. Relocated Trees and Palms: Brace relocated trees and palms in accordance with the Contract Documents. Remove bracing at the conclusion of the contract or as directed by the Engineer. Bracing or straps must not damage or become embedded in the tree bark.
- 10. Use 2" x 2" minimum wood stakes unless otherwise shown in the Plans or directed by the Engineer. Use wood meeting #2 Common or better in accordance with the Standard Grading Rules for Southern Pine.
- 11. Drive stakes into existing, undisturbed soil. Localized compaction may be provided to prevent displacement of the stakes for previously disturbed existing soils that do not provide sufficient stability.

**REVISION** 11/01/19

DESCRIPTION:



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