



*Florida Department of Transportation*

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**M E M O R A N D U M**

**DATE:** June 1, 2017

**TO:** Rudy Powell, Director, Office of Maintenance; Mike Sprayberry, State Administrator for Maintenance Contracts; Scott Foltz, General Counsel's Office; Greg Davis, State Estimates Office, Maintenance Distribution List

**CC:** Dan Hurtado, State Specifications Engineer; Stefanie Maxwell, Manager, Program Management Office

**FROM:** Frances Thomas, Specifications Development Coordinator

**SUBJECT: Proposed Specification: SS5800000PB Landscaping (Push Button)**  
Attached for your review and comments is a copy of the subject proposed specification.

The changes are proposed by Jeff Caster, State Landscape Architect, to update acceptance criteria for plant materials, inspection and reporting criteria, and basis of payment.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and may be entered on-line, sent to Mail Station 75, or by email to Frances Thomas at [frances.thomas@dot.state.fl.us](mailto:frances.thomas@dot.state.fl.us).

Comments received after **June30, 2017** may not be considered. Your input is encouraged.

Attachment

Use Maintenance Landscaping Push Button Projects with One Year Establishment Period.

~~Do no use with SS5800000BFPB.~~

## ~~580PB~~ LANDSCAPING (PUSH BUTTON).

~~—(REV 3-26-155-30-17) (7-17)~~

The following new Section is added at the end of Section 571:

### SECTION 580 LANDSCAPING (PUSH BUTTON)

#### 580-1 Description.

~~Furnish~~, *For each Work Document*, install, ~~and~~ establish ~~and maintain~~ landscaping as indicated in the Contract Documents.

*For each Work Document*, ~~The~~ *the* allowable Contract Time is two separate phases called Installation Period and Establishment Period. The Installation Period precedes the Establishment Period and is the allowable Contract Time, *for the Work Document*, minus the one year Establishment Period.

Failure to complete the installation and establishment of the landscaping within allowable Contract Time, *as defined in the Work Document*, will result in liquidated damages being assessed and withheld in accordance with 8-10.

~~For each Work Document, regardless of the duration of the time used for the Installation Period, the duration of the~~ *The one year* Establishment Period will *be one year*. ~~begin when plants have been installed and accepted by the Engineer regardless of the duration of the time used for the Installation Period.~~

#### 580-2 Materials.

**580-2.1. Grade Standards and Conformity with Type and Species:** ~~Only use nursery grown~~ *Provide* plant materials purchased from Florida based Nurseryman Stock that comply with all required inspection, grading standards, and plant regulations in accordance with the latest edition of the Florida Department of Agriculture's "Grades and Standards for Nursery Plants."

*Florida commercial nursery stock is defined as plants propagated or grown at a Florida commercial nursery or imported to a Florida commercial nursery, made available for sale to the public, and included as inventory for fee. Nursery stock purchased from outside Florida and shipped directly to the project site is not Florida commercial nursery stock. Prior to installation, provide written certification that all nursery stock meets the requirements of this Section and provide nursery invoices for all nursery stock.*

Unless otherwise specified, *the* minimum grade for ~~all plants~~ *plant material* is Florida No. 1. ~~All plants~~ *Plant material* must be the specified size and grade at the time of delivery *to the site*.

Use only plants that are true to type and species, free of fungal infection and disease, and ensure that the plants not specifically covered by Florida Department of Agriculture's "Grades and Standards for Nursery Plants" conform in type and species with the standards and designations in general acceptance by Florida nurseries. Submit a list of nurseries where plants are tagged for the work document including contact information and location. The Engineer and Contractor may visit the nursery sites to inspect representative samples ~~of plant~~

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~~material~~ and lock tag the example plants *material*. ~~Prior to planting, certify to the Engineer that all plant materials have been purchased from Florida based Nurseryman Stock.~~

A minimum of two plants of each species on each shipment must be shipped with tags stating the botanical nomenclature and common name of the plant. Should discrepancies arise between botanical nomenclature and common name, the botanical name will take precedence.

*Sabal palms (Sabal palmetto) specified as being “Regenerated Palms” as shown on the Plant Schedules must be minimum Florida no. 1 grade unless noted otherwise. The root ball width must be, at a minimum, equal to twice the diameter of the trunk as measured at the base. The root balls shall have new, regenerated, round-tipped roots that have emerged from the root initiation zone. Roots must be whitish-yellow in color, have tapered ends and be present on all sides of the root ball.*

*To qualify as “Regenerate Palms,” sabal palms must have been placed in containers or be contained within “plastic fabric or film material”, or approved equal, after field harvesting and during the root regeneration period. Regenerated palms must have a minimum of three fully expanded new fronds that have not been pruned. Fully expanded new fronds must meet the minimum requirements to be considered “excellent leaves”, as defined by the glossary of terms in the latest edition of the Florida Department of Agriculture and Consumer Services Grades and Standards for Nursery Plants – Palms and Cycads.*

<b>Root Ball Sizes for Field-Grown Palms</b>			
<b>Palm Type</b>	<b>Overall Height</b>	<b>Root Ball Radius from Trunk</b>	<b>Root Ball Depth</b>
<b>Sabal Palm*</b>	N/A	Per Florida Grades & Standards	Per Florida Grades & Standards
<b>Coconut Palm</b>	N/A	Per Florida Grades & Standards	Per Florida Grades & Standards
<b>Queen Palm</b>	N/A	24"	24"
<b>All Other Field Grown Palms</b>	< 15' OA	12"	18"
	15'—25' OA	16"	24"
	26'—30' OA	18"	30"
	30'	24"	36"
<p>*—— Sabal palms (Sabal palmetto) specified as being “Regenerated Palms” as shown on the Plant Schedules shall be minimum Florida no. 1 grade unless noted otherwise. The root ball width shall be, at a minimum, equal to twice the diameter of the trunk as measured at the base. The root balls shall have new, regenerated, round-tipped roots that have emerged from the root initiation zone. Roots shall be whitish-yellow in color, have tapered ends and be present on all sides of the root ball.</p> <p>—— To qualify as “Regenerate Palms,” sabal palms shall have been placed in containers or be contained within “plastic fabric or film material”, or approved equal, after field harvesting and during the root regeneration period. They shall have a minimum of three fully expanded new fronds that have not been pruned. Fully expanded new fronds shall meet the minimum requirements to be considered “excellent leaves”, as defined by the glossary of terms in the latest edition of the Florida Department of Agriculture and Consumer Services Grades and Standards for Nursery Plants — Palms and Cycads.</p>			

**580-2.2 Inspection and Transporting:** Move nursery stock in accordance with all Federal and State regulations. *For and accompany* each shipment ~~with~~ *of nursery stock, provide a General Nursery Stock Inspection Certificate as the required in Chapter 5B-2, F.A.C. inspection certificates. Submit inspection certificates to the Engineer.*

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**580-2.3 Water:** Meet the requirements of Section 983.

**580-2.4 Mulch:** Use of cypress mulch is prohibited.

**580-2.5 Soil:** *Remove all unsuitable soil and debris to root ball depth. Replace soil meeting the requirements of Section 987.*

### **580-3 Worksite Landscape Supervisor.**

*Provide a Worksite Landscape Supervisor ~~responsible for~~ to directly oversee all landscape installation and establishment. The Worksite Landscape Supervisor must be a Certified Landscape Technician or Certified Landscape Contractor in accordance with the Florida Nursery Growers and Landscape Association (FNGLA) located at the following URL address: <https://www.fn gla.org/certifications/index.aspx>, or a State of Florida Registered Landscape Architect. Provide verification at the pre-work conference.*

### **580-3.4 Installation.**

**580-4.1 Installation Plan:** *For each Work Document, ~~A~~at pre-work meeting, provide an Installation Plan for review and comment. Specifically describe the methods, activities, materials, and schedule to achieve installation as described in 580-4.5*

**580-3.4.2 Delivery:** *All materials must be available for inspection before installation.*

**580-3.4.1.3 Layout:** The location of plants as shown on the ~~work~~ *Work document* ~~Document~~, are approximate. At no cost to the Department, ~~adjust the~~ final locations *when directed by the Engineer* ~~may be adjusted~~ to accommodate unforeseen field conditions or to comply with safety setbacks and requirements.

Mark proposed mowing limits, planting beds and individual locations of trees, ~~and~~ palms, *and plants* as shown in the Contract Documents for the Engineer's review, prior to excavation or planting.

Make no changes to the layout, materials or any variations of ~~plant~~ materials from the ~~Contract Documents~~ *Work Document* without the Engineer's ~~written~~ approval.

**580-3.4.2.4 Soil Drainage:** ~~All p~~ *Planting* holes and beds must drain sufficiently. ~~prior to installing any plants. Immediately~~ *Notify* the Engineer of drainage or percolation problems before plant installation.

**580-3.4.5.3 Planting:** Meet the requirements of the ~~Contract Documents~~ *Work Document*.

**580-4.6 Maintenance:** *At a minimum, maintain plant materials to the equivalent visible structural quality and healthy characteristics of Florida No. 1.*

**580-3.4.4.7 Site Repair and Restoration:** Repair and restore existing areas disturbed by installation, ~~establishment~~ or maintenance activities. Where new turf is required to restore and repair disturbed areas, meet the requirements of Section 570.

**580-3.4.5.8 Disposal of *Surplus Materials and Debris*:** *Remove from the jobsite any surplus material unless otherwise directed by the Engineer. Surplus is defined as material not needed after installation of landscaping per ~~Contract Documents~~ Work Document. Upon commencement of landscaping installation, remove daily all debris from landscape locations described in the ~~Contract Documents~~ Work Document. and dispose of all debris generated from the installation of plants at the end of each day's work and in compliance with all Federal, State, and Local Rules and Regulations.*

~~580-3.6.4.9 Installation Completion:~~ *To For each Work Document, to allow time for scheduling inspection of installation, provide the Engineer with seven calendar days advance notice of completion of installation of all plants. Upon completion of installation of plants,*

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~~certify on a form provided by the Department, "Contractor Certification of Installation" that the landscaping has been installed and is being established maintained in accordance with the Contract Documents~~*Work Document.*

**580-4.9 Reporting:** *Certify monthly on a form provided by the Department, "Landscape Monthly Inspection Form" that the plants have been installed and are being maintained in accordance with the* ~~Contract Documents~~*Work Document.*

**580-4.10 Establishment Plan:** *Not less than 45 days before the scheduled completion of the installation, submit an Establishment Plan to the Engineer for review and comment. Installation will be considered complete only when the Establishment Plan has been accepted by the Engineer. Specifically describe the methods, activities, materials and schedule to achieve establishment of plant material and incidental landscaping as described in 580-5. Acceptance of the Establishment Plan is not a release from responsibility of the establishment and maintenance as required in the* ~~Contract Documents~~*Work Document.*

**580-4.11 Installation Completion:** *Notify the Engineer no less than seven calendar days in advance of completion. Upon completion of installation of plants and incidental landscaping, certify on a form provided by the Department, "Contractor Certification of Installation" that the landscaping has been installed and is being established in accordance with the* ~~Contract Documents~~*Work Document.*

**580-4.5 Establishment.**

**580-4.5. 1 Establishment Period:** ~~The~~*For each Work Document, the* establishment period is defined as the entire one year after installation of ~~all plants~~*material* and incidental landscaping. The establishment period will begin upon acceptance ~~of the complete installation~~*by the Engineer of the Establishment Plan and the complete installation of the plant material and incidental landscaping.*

During the establishment period, *at a minimum:*

~~Keep all plants watered, fertilized, mulched, pruned, and staked and guyed as necessary to assure specified minimum grade of Florida No. 1 throughout the duration of the project construction period and establishment period.~~

*1. Maintain plant material quality to sustain all structural and healthy characteristics per* ~~Contract Documents~~*Work Document.*

*2. Maintain the soil moisture at field capacity. Field capacity will be determined from a 4-inch deep excavation where the soil must hold together and form a hand clump.*

*3. Maintain a 3 inch mulch cover.*

*4. Remove undesirable vegetation and eradicate Florida Exotic Plant Pest Council Category One invasive plant species. This includes from walls and within fences.*

*5. Prune to remove crossing, deflecting and circling roots, crossing, dead, damaged and co-dominant branching, for sign visibility, and for safe sight distance. An ISA certified arborist is to direct pruning operations. Follow ANSI A300 Part 1 and the Contract Documents.*

*6. Maintain plant beds as depicted in the* ~~Contract Documents~~*Work Document.*

*7. Remove litter and debris.**8. Operate and maintain the irrigation system when installed as part of the ~~Contract~~ Work Document.**9. Remove staking and guying from established plants.**10. Continue mowing and litter pick up of the turf areas as depicted and specified in the ~~Contract Documents~~ Work Document.*~~Keep all plants pruned to maintain plant health, clear visibility of signs, traffic signals, safe sight distance at intersections and driveways, safe and operational horizontal and vertical clearance from roadways, sidewalks, utilities, light poles, traffic control signals and devices, toll equipment and facilities, mechanical equipment, fences, walls and drainage structures, and to provide unobstructed access. Pruning shall conform to ANSI A300 Part 1 Standards. Pruning shall be performed by an International Society of Arboriculture (ISA) Certified Arborist or person with documentation of equivalent or greater expertise. Prior to performing pruning activities provide proof of the individual's active arborist certification or other credential to the Engineer for approval.~~~~Keep the individual plant locations and planting beds free of litter and undesirable vegetation.~~~~Keep landscape bed edges correctly located and trimmed, and the mulch groomed and replenished as specified in the Contract Documents.~~~~Operate and maintain all components of any irrigation system as specified in the Contract Documents when installed as part of the Contract.~~~~Remove staking and guying from all fully established plants unless otherwise directed by the Engineer.~~~~Continue any mowing and litter pick up of the turf areas as depicted and specified in the Contract Documents.~~

**580-45.2 Inspection and Reporting Requirements:** ~~During the establishment period,~~  
*During the establishment period, inspect and certify monthly on the Department's "Landscape Monthly Inspection Form" that the landscaping is being established per the ~~Contract~~ Work Documents.* ~~the Engineer will perform quarterly monthly inspections to verify that the landscaping is being established per the Contract Documents~~ *Work Document.*

*In addition, at quarterly intervals, beginning within 90 days of the establishment period start date, provide a Registered Landscape Architect to perform inspections of the landscaping and document the findings in a signed and sealed report. At a minimum, include the following in the inspection report:*

- 1. Date of inspection*
- 2. Location of inspection*
- 3. Condition of plants - identify by species, location, and number of plants that are no longer the specified minimum grade.*
- 4. Condition of plant beds and adjoining areas including mulch, turf, edges of planting beds, weeds, and staking and guying.*
- 5. Soil moisture level*



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6. Condition of mulch cover
7. Pruning requirements
8. Weed control
9. Accompanying photographs
10. Condition and operation of the irrigation system, if applicable
11. Contractor's response, action, and schedule
12. Other comments

*Submit the monthly inspection form and the quarterly inspection report to the Engineer within seven calendar days after performing the inspection.*

#### **580-56 Remedial Work.**

Perform all necessary remedial work at no cost to the Department. Use replacement plants of the same species and planting medium as the plant being replaced and as specified in the ~~Contract Documents~~ *Work Document*. Replacement ~~plant~~ size must match the size of the adjacent grown-in ~~plants~~ *plant material* of the same species and ~~variety which that~~ may be larger than the initially installed size.

The establishment ~~period~~ *time* for replacement plants ~~materials shall~~ *will* be remaining establishment period or 90 days after ~~the~~ date of replacement installation acceptance, whichever is greater.

Approval of remedial work does not relieve the Contractor from continuing responsibility under the provisions of this Section. At the end of the contract period when all contract requirements are met, the Engineer will release the Contractor from further remedial work.

#### **580-7 Failure to Perform.**

~~For each Work Document, upon receipt of the monthly inspection form, the quarterly inspection report, or after inspection by the Engineer, a daily deduction of 0.0333% of the Contract~~ *Work Document amount will be assessed and forfeited if full compliance with 580-5 is not achieved. The daily deduction will continue until full compliance is achieved to the Engineer's satisfaction.*

#### **580-6 Disposal of Surplus Materials and Debris.**

~~Remove from the jobsite any surplus material or debris unless otherwise directed by the Engineer. Surplus is defined as material not needed after installation of plants per the Contract Documents.~~

#### **580-7 Failure to Perform.**

~~Should the Contractor fail to timely and satisfactorily perform any remedial work associated with landscaping during the establishment period, the Department will reduce the payments scheduled during the establishment period by a deduction of 0.274% per calendar day of the remaining establishment amount in 580-8.2.~~

#### **580-8 Method of Measurement.**

*The quantity to be paid will be the lump sum quantity for landscape installation and establishment.*

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### **580-8 Method of Measurement.**

~~580-8.1 Installation: The quantity to be paid will be the quantity of plants or trees installed.~~

~~580-8.2 Establishment: The quantity to be paid will be in equal quarterly payments for plants or trees maintained during the establishment period.~~

### **580-8.9 Basis of Payment.**

Price and payment will be full compensation for all work and materials specified in this Section. *Seventy-six percent of the total ~~contract~~ Work Document amount will be paid during the installation period for work completed and accepted. Up to twenty-four percent of the total ~~contract~~ Work Document amount will be paid in accordance with 580-7 during the establishment period, including all ancillary work and materials necessary to meet the contract requirements.*

**580-8.9.1 Payment during the Installation Period:** *Within 21 calendar days after contract award or at the pre-work meeting, whichever is earlier, prepare and submit a schedule of values to the Engineer for approval prior to invoicing.*

~~Within 21 calendar days after contract award or at the pre-work meeting, whichever is earlier, prepare and submit a schedule of values to the Engineer for approval prior to invoicing. The schedule of values Work Document will be the basis for determining monthly payments. Seventy-six percent of the total unit price for each item will be paid during the installation period for work completed and accepted. The Contractor must make a request for payment by submitting an invoice, based on the amount of work completed. The Contractor's invoice must consist of the following:~~

*For each Work Document, ~~P~~prepare a monthly progress invoice for work completed during the installation period for each Work Document. ~~and s~~Submit the progress invoice to the Engineer. The Engineer will pay for any item of work only when the progress invoice is approved. The invoice must consist of the following:*

*1a. Contract Number, Financial Project Identification Number, ~~Work Document Number~~, Invoice Number, Invoice Date and the period that the invoice represents.*

*2b. The basis for arriving at the amount of the progress invoice including approximate quantities of work completed on each Work Document, less payments previously made and less an amount previously forfeited.*

~~3c. Contract Summary showing the percentage of dollar value of completed work based on the present Contract amount and the percentage of days used based on the present Contract Days.~~

~~Payment will be made in accordance with the total unit price for each item listed in the Bid Price Proposal.~~

**580-8.9.2 Payment during the Establishment Period:** *For each Work Document, ~~U~~pon acceptance of the Landscape Monthly Inspection Form from the Contractor as described in 580-5.2 and approval of the Engineer, - ~~P~~payment during the establishment period will be made in 12 equal monthly payments, less any deductions assessed in accordance with 580-7.*

**580-8.9.3 Payment:** Payment will be made under:

- |           |   |
|-----------|---|
| 580- 1- 1 | Landscape Complete, Small Plants, lump sum. |
| 580- 1- 2 | Landscape Complete, Large Plants, lump sum. |