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## 329 Landscape Plans

### 329.1 General

Landscape refers to any vegetation, mulches, and irrigation systems. Designs may include hardscape features (e.g., street furniture, specialty paving, tree grates, walls, planters, fountains, fences, landscape lighting). Hardscape-only projects are not landscape projects. Landscape may be constructed as a standalone project or as a component of a roadway project.

The Legislature requires that the Department commit program dollars to purchase plant materials from Florida commercial nursery stock. In order for the Department to capture that information, it is critical that all small and large plant pay items be placed in AASHTOWare Project Preconstruction™ (formerly TRNS\*PORT) Category 0600.

Landscape Plans can be prepared as either a component set of plans, or as a standalone Landscape plans set. Landscape Plans are assembled as a separate plan set complete with a Key Sheet and all other required landscape sheets. When prepared as a component set of plans, number the sheets with the prefix “LD”; e.g., LD-1, LD-2, LD-3. When prepared as a Standalone Landscape plan set, the prefix is not needed.

Projects with minor landscaping may show these features on landscape plan sheets in the roadway plans set (lead component) or detailed on Roadway Plans sheets. Do not use the prefix letter “LD” when including landscaping sheets in the roadway plan set.

## 329.2 Key Sheet

The key sheet is the first sheet in the component plans set, or a Standalone Landscape plan set. When used as a component set of plans, the location map and Contract Plans Components list are not required on this sheet. Show the index of Landscape Plans on the left side of the sheet. Assemble the Landscape Plans in the following order:

- (1) Key Sheet
- (2) Signature Sheet (if required)
- (3) General Notes
- (4) Plant Schedule
- (5) Project Layout
- (6) Landscape Plan
- (7) Landscape Details
- (8) Irrigation Plan (if applicable)
- (9) Irrigation Details (if applicable)

See **FDM 302** for other Key Sheet requirements and **Exhibit 302-3** as an example Component Key Sheet.

For Standalone Landscape plan sets, refer to **Exhibit 302-1** for an example of a lead Key Sheet with no revisions and **Exhibit 302-2** for a lead Key Sheet with Revisions. Assemble Standalone Landscape plans in the following order:

- (1) Key Sheet
- (2) Signature Sheet
- (3) General Notes
- (4) Plant Schedule
- (5) Project Layout
- (6) Selective Clearing and Grubbing Plan (if applicable)
- (7) Tree Disposition Plan (if applicable)
- (8) Tree Disposition Charts (if applicable)
- (9) Landscape Plan
- (10) Landscape Details
- (11) Irrigation Plan

- (12) Irrigation Details
- (13) Temporary Traffic Control Plan (if applicable)
- (14) Stormwater Pollution Prevention Plan (if applicable)

### **329.3 Signature Sheet**

See **FDM 303** for Signature Sheet requirements.

### **329.4 Plant Schedule**

The Tabulation of Quantities Sheets are no longer produced. See **FDM 902** for guidance.

The Plant Schedule sheet tabulates the planting materials, landscape soil work, and other materials required for the installation of plant materials. If irrigation elements are included, a separate Plant Schedule is required. If hardscape elements are included, use a Plant Schedule containing information for each element.

When completing the Estimated Quantities Report per **FDM 902**, use the following Pay Size categories:

Pay Size categorized as small plants include:

- All ground covers
- Shrubs, trees, and cycads less than 7 gallons
- Clustering palms, up to 6-foot height

Pay Size categorized as large plants include:

- Shrubs, trees, and cycads, 7 gallons or greater
- Single-trunk palms
- Clustering palms, 6-foot height or greater

Modification for Non-Conventional Projects:

Delete ***the last paragraph.***

## **329.5 General Notes**

Show general notes on a separate General Notes sheet. See **FDM 311** for instructions in creating a General Notes sheet. General Notes can be used to describe site-specific requirements, such as:

- Watering schedule
- Fertilizer mix
- Fertilizer schedule
- Backfill or soil amendments
- Utility providers list
- Sight line and/or design speed criteria
- Maintaining authority contact information

## **329.6 Landscape Plan Sheets**

Prepare Landscape Plan sheets on a standard plan format. The scale should be such that all details are clear and legible. See the requirements of **FDM 312.1** as a guide. For simple projects, or narrow sections of a project, it may be possible to "stack" two plans on one sheet, one below the other. Stationing must progress from left to right and be stacked from top to bottom. Irrigation plan sheets may be prepared at a larger scale than the planting plan sheets. Clarity and legibility must be preserved in all cases.

Place a north arrow and scale in a conspicuous location, typically in the upper right portion of the sheet. If two plans are "stacked" on one sheet, include a north arrow and scale in each plan portion.

### **329.6.1 Required Information**

The basic information required is as follows:

- (1) Project centerline
- (2) Edge of pavement (edge of traffic lanes)
- (3) Curbs
- (4) Drainage systems
- (5) Guardrail
- (6) R/W or limited access fence line
- (7) Sidewalks or other planned or existing structures

- (8) Lighting, signs, and signal poles
- (9) Intersections and driveways which are noted in the plans
- (10) Existing and proposed overhead and underground utility locations
- (11) Clear Zone/Lateral offset (should be plotted or distances noted frequently on each plan sheet)
- (12) View zones for permitted outdoor advertising signs
- (13) Canopy limits
- (14) Existing vegetation (to remain or be removed)
- (15) Existing off-site features and conditions that affect or are affected by the project
- (16) Fence and gate locations
- (17) Setbacks from structural elements or drainage system
- (18) Limits of clear sight (see **FDM 212.11**)
- (19) Transit Facilities
- (20) Mowing Limits

Where necessary, required sheet elements may be “screened” to provide legibility for the landscape plans, so long as the required elements remain apparent.

Planting plan sheets must also provide at a minimum the plant symbols, common name, and botanical names of each plant.

Include the following on the planting plan sheets:

- Hardscape and site amenities; e.g., street furniture, specialty paving, tree grates, walls, planters, fountains, fences, and lighting (excluding public utility street and area lighting).
- Location and depth to improve soil structure (a.k.a., soil scarification), amend existing soil, or replace existing soil with Landscape Soil
- Soil scarification and amendment requirements may be described on the General Notes sheet if they are simple. Detailed requirements (e.g., those that vary for specific areas) should be described separately for each amendment type. Each type of soil scarification, amendment, or replacement should be defined (e.g., Type ‘A’), specified, and quantified on the Plant Schedule.

Prepare irrigation plan sheets using the planting plan sheets (devoid of unnecessary text and labeling) and include information pertaining to the irrigation system. Information on the sheet must include the approximate location of spray heads and rotors, valves,

mainlines, lateral lines, sleeves (noting the diameter sizes), controllers, water sources and points of connection, backflow preventers, and isolation valves.

The Details Sheet must include a legend clearly depicting the symbology used in the irrigation plan sheets and an associative description for each entry. Additional information such as the nozzle and component schedule, irrigation zone, or lateral schedule can be included on these sheets.

### **329.7 Landscape Details Sheet**

This sheet may be used to show landscape details, hardscape details, and irrigation details, that are applicable to the project and not addressed in the [Standard Plans](#).

Details provided in [Standard Plans, Index 580-001](#), are provided for root establishment purposes only. When trees or palms are above 30 feet in overall height, or within falling distance of a roadway, pedestrian or bicycle route, designer is to provide tree and/or palm bracing details and [Standard Plans, Index 580-001](#) does not apply. Designer is to provide details when bracing is intended to be used for safety considerations. The following are examples of safety considerations:

- Tree or palm is within falling distance of a roadway, pedestrian, or bicycle route
- Tree or palm is over 30 feet in height
- Commonly exposed to higher wind speeds
- Non-standard soil properties exist
- Non- standard plant dimensions exist
- When rootball exceeds 4 feet in diameter and it is located on a 1:3 slope or steeper
- Tree bracing impedes the line of sight or clear sight triangles.

