

## Chapter 15 LANDSCAPE DRAWINGS AND DESIGN

### SECTION 1501 - CONTENTS

**1501.1 Contents:** The drawings shall present all information relative to the size, form, location and arrangement of the landscape components and systems of the project. The drawings shall indicate complete design. Prior written acceptance is required of any design-build components. **Landscape drawings shall be fully coordinated with Civil drawings.** The following shall be included on the landscape architectural drawings, when applicable to the specific project:

- A. Tree protection
- B. Location of materials, assemblies, products and accessories.
- C. Size, thickness and significant dimensions of all landscape elements.
- D. Relationship of adjacent dissimilar materials.
- E. Soil boring or test pit logs including locations.
- F. Irrigation drawings shall present all necessary information to show location and/or routing of all landscape irrigation system components, at minimum but not limited to: spray and rotor heads, non-pressure (lateral) piping, drip tubing, electric control valves, air relief valves quick coupling valves, isolation gate valves, pressure regulating valves, pressure (mainline) piping, effluent distribution piping, backflow preventers, master valves, water meters, point of connection and service line, field controllers, chemical/fertilizer injection assemblies, sleeving.
- G. Separate drawings indicating power source wiring diagrams, controllers, point of connection and service lines.

### SECTION 1502 - SEQUENCE

**1502.1** Landscape drawings shall be divided into specific groups. Drawings within a group are numbered consecutively, ie C2.01, C2.02, etc. The group designation shall always remain the same, regardless of the size or scope of the individual project. If specific projects do not include work related to a group, that group shall be eliminated from the drawings. When appropriate, the Consultant shall obtain written permission from the Project Manager to vary the sequence.

L0.xx	Index, Symbols, Abbreviations, Key Plan, Notes
L1.xx	Demolition and Site Preparation
L2.xx	Landscape Plans
L3.xx	Plant Materials List/Schedule
L4.xx	Irrigation Plans
L5.xx	Power and Field Controller Plans
L6.xx	Sections/Elevation
L7.xx	Detailed Plans/Enlargements
L8.xx	Details

See Chapter 12 - Contract Document Numbering System.

### SECTION 1503 - PLANS

**1503.1 Landscape Plans:** Plan view drawings shall present the following minimum information:

- A. North direction arrow, located in accordance with drawing format requirements.
- B. Floor elevation of adjacent structures using survey datum elevations and reference elevations if applicable.
- C. Cross reference symbols or notations to sections, elevations, detailed plans, details or other related information in the drawings so these drawing elements can be readily located.
- D. Extent and location of all proposed materials, patterns and finishes for all landscape elements shall be clearly indicated.
- E. Continuation: Where plans and system layouts are continued on another drawing, place a note at the point of break in the plans or systems layouts referencing the continuation drawing.

**1503.2 Grading, Drainage and Utilities:**

- A. The Landscape Consultant shall be responsible for coordination of the landscape design with civil grading, paving and utility construction.
- B. Landscape plans shall indicate contours, drainage, drainage structures, paving and ALL buried utilities.
- C. Landscape details shall coordinate aesthetic treatment of drainage and utility elements.

**1503.2 Irrigation Plans:** Irrigation plans shall present the following minimum information.

- A. Location and size of all system components including Controllers.
- B. Routing and sizing of all piping
- C. Description of requirements for point(s) of connection.
- D. Description of field controller installation including electrical source and controller size.
- E. Separate plans indicating power, controllers and signaling/control wiring. Plans shall be dimensioned. Locates for all buried devices shall be dimensionally located on Record Drawings.
- F. Locate and show all buried utilities.

**1503.3 Irrigation Schedule:** Schedule shall be structured in columns showing from left to right, the component or piping symbol, manufacturer, model number, description of item, and appropriate detail number(s).

- A. Model number, manufacturer and nozzle size for all spray and rotor heads.
- B. Class of schedule and material type for all piping.
- C. Manufacturer and model number of all system components.

**1503.4 Key symbols:**

- A. Electric control valves shall be labeled with hexagon symbol indicating valve size, controller and station number, and designed flow rate in gallons per minute.

- B. Pressure setting of all regulating valves.
- C. Location of all evergreen trees located within irrigated turf area.
- D. Specific irrigation notes as required communicating design and installation intent.
- E. Location and description of existing components, piping or conditions.
- F. Construction notes describing any special irrigation conditions.
  - 1. Designed static water pressure
  - 2. Drip emitter schedule for specific size and type of plant material.

**1503.5 Sections:** Sections and elevations shall be provided to indicate the correct vertical relationships, size and location of the landscape components.

**1503.6 Details:** Construction details shall illustrate installation of all landscape planting, appurtenances, mulching, hardscape and irrigation components. Details shall identify all required assembly parts, sizes and dimensions. Details shall be numbered and appropriately keyed with overall landscape and irrigation plans and schedules.

**1503.7 Demolition and Site Preparation:** Drawings shall be prepared which indicate altered, abandoned and removed site features where extensive removal and demolition operations are required. Demolition drawings shall indicate but not be limited to the following pertinent information.

- A. Location and size of existing utilities or other elements.
- B. Other information to indicate the extent of known conditions and materials and the extent to which these are to be maintained, modified or removed.
- C. Location, size and type of existing vegetation and extent to which existing vegetation is to be removed, pruned, protected or maintained.
- D. Location and extent of topsoil on-site or in stockpile, and directions for retention, stripping, stockpiling or spreading of topsoil.
- E. Symbols that are used for the demolition work shall be the same as those used on the drawings for new construction.

## SECTION 1504 – LANDSCAPE DESIGN

**1504.1 General:** Prior to commencing design, the Consultant shall study and be familiar with the CSU Construction Standards, Part III, Divisions 2 Existing Conditions, 31 Earthwork, 32 Exterior Improvements and 33 Utilities, along with all other parts of the CSU Construction Standards (Administrative, Design and Construction Standards), current edition, as posted on the Facilities Management website.

### 1504.x Building Signs and Wayfinding

END OF CHAPTER 15