

**Water  
Efficiency  
Review**

# Outdoor Water Use Landscape Plans and Specifications

The District will review applications for new services and determine the applicability of, and compliance with, water-efficiency requirements. All applicants shall comply with Section 31 water efficiency regulations and those required by applicable local, state and/or federal law, including the California Green Building Standards Code (CALGreen) and the Model Water Efficient Landscape Ordinance (MWELo).

Applicants shall maintain design documents and construction records and furnish a copy of these documents and records to the District upon request. Landscape design and construction must meet the requirements outlined below.

**Checklist of Requirements:**

**Landscape projects 0-499 SF in area**

Applicants must submit, at a minimum, an annotated site plan that includes the following elements:

- Property address
- Scale bar and north arrow
- Property boundaries
- Hardscape, including structures, roads, driveways, walkways, patios, decks, etc.
- New landscaping, including planted areas, pools and water features
- Existing landscaping or unmodified open space to remain
- Location of all hose bibs

**Landscape projects 500 SF or more in area**

Applicants must submit an MWELo-compliant landscape documentation package for projects that are 500 square feet or more in area, meeting the following minimum requirements:

**Planting Plan**

- MWELo compliance statement signed and dated by applicant
- Plant legend identifying botanical name and water needs of each species
- Location of all plants
- Plants color coded by water needs and grouped by hydrozone
- Notes requiring compost incorporated at a rate of 4 cubic yards per 1,000 sf into the top 6 inches of soil or compost per horticultural soil report recommendations
- Notes and/or details requiring a minimum of 3 inches of organic mulch on exposed soils except where contraindicated
- Lawn/turf not to exceed 25% of landscape area or planted on slopes greater than 25%

**Grading Plan (or sufficient topographic information on planting or irrigation plans)**

- Contours
- Spot elevations
- Drainage patterns

**Water  
Service  
Application**

# Outdoor Water Use

## Landscape Plans and Specifications

### Irrigation Plan

- Irrigation legend with make, model and description of each irrigation component
- Smart, weather-based irrigation controller with a rain or soil sensor
- EBMUD meter location (meter dedicated to irrigation required for non-residential projects 5,000 SF or more)
- Point of connection
- Manual shutoff valve
- Reduced pressure backflow prevention device (automatic valves that feature a backflow prevention device may be substituted if installed properly; double check valves are not allowed)
- Pressure regulation (if conditions require)
- Private sub-meter installed by applicant (for non-residential landscapes 1,000 SF or more and residential landscapes 5,000 SF or more or as determined by EBMUD)
- Flow sensor with master shutoff valve (for non-residential landscapes 500 SF or more and residential landscapes 5,000 SF or more)
- Irrigation mainline and laterals
- Remote control valves with flow rate of each zone/valve
- Emission devices (drip, bubblers, spray, etc.)
- Flush valves at hydraulic opposite end of drip zones
- Air relief valves (if conditions require)
- Irrigation zone boundaries match hydrozones
- Irrigation zones are designed with uniform precipitation across the entire zone
- Emission devices have fixed flow rates and are of the same type within a zone (adjustable/variable flow rate emitters are not allowed)
- No overhead spray in areas less than 10 feet across or within 2 feet of impervious surfaces
- Spray heads spaced to provide head to head coverage

### Water Budget Calculations (required for landscapes 2,500 SF or more in area; see EBMUD Water Efficient Landscape Worksheet)

- Appropriate reference evapotranspiration rate (ET<sub>o</sub>)
- Appropriate plant factors
- Appropriate irrigation efficiencies
- Estimated Total Water Use (ETWU)
- Maximum Applied Water Allowance (MAWA)
- Pass/Fail (ETWU must not exceed MAWA)

### **Subdivisions**

Landscaping for each lot and all common area within a subdivision must meet the above requirements. In addition, applicants must submit a detailed site map of the entire subdivision, featuring the following elements:

- Location of all lots with lot numbers and boundaries
- Street names
- Location of each irrigation meter
- Boundary of the area to be served by each meter