Landscape Documentation Package for all Submittals

(1) The Landscape Documentation Package shall include all of the following elements. Each element is described in detail in Section B.3.

(A) Water Efficient Landscape Worksheet
(B) Project Information and Checklist
(C) Water Use Efficiency Statement
(D) Water Budget Calculation
(E) Maximum Applied Water Allowance (MAWA)
(F) Estimated Water Use (EWU) for Hydrozones and Estimated Total Water Use (ETWU)
(G) Hydrozone Information
   - Hydrozone Map
   - Hydrozone Table
   - Hydrozone Calculation Summary
(H) Soil Management Plan
(I) Soil Analysis Report
(J) On-Site Soil Assessment with Recommendations
(K) Landscape Design Plan
(L) Irrigation Design Plan
(M) Grading Design Plan
(N) Final Conditions of Approval
(O) Approved Tentative Tract Map or Approved Site Plan
(P) Plan check fees with print out of Landscape Excel Sheet
Please complete the entire worksheet, as it is part of the Landscape Documentation Package that is required to be submitted with the plans per Ordinance # 1362.

SECTION A. PROJECT INFORMATION

Date: ______________

Project Name _____________________________________________

Project Applicant __________________________________________

Project Address and Location:

<table>
<thead>
<tr>
<th>Street Address</th>
<th>Parcel Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>City</td>
<td>Tract or Lot Number(s)</td>
</tr>
</tbody>
</table>

| State | Zip Code | Latitude/Longitude Coordinates (optional) |

Please use the checklist below to indicate completion of the Landscape Documentation Package.

**Landscape Documentation Package**

- Water Efficient Landscape Worksheet
- Soil Management Plan (Soil Analysis Report and On-site soil Assessment with Recommendations)
- Landscape Design Plan
- Irrigation Design Plan
- Grading Design Plan

Please fill in the information below to describe the landscape project, where applicable:

Total Project area ___________________________ (sq. feet)

Total irrigated landscape area ___________________________ (sq. feet)

Turf area ___________________________ (sq. feet)

Non-turf area ___________________________ (sq. feet)

Recreational areas ___________________________ (sq. feet)

Areas permanently and solely dedicated to edible plants ___________________________ (sq. feet)

*Additional information is also required in Part # 3 of the worksheet

Total non-irrigated landscape area ___________________________ (sq. feet)
**Water supply type**: Please check all that apply.

- Potable water
- Recycled Water
- Graywater
- Groundwater or Well Water
- Mixed Use
- Other__________________

**Project Type**: Please check only one

- Public or community facility (i.e., park, playground, etc.)
- Commercial
- Industrial
- Institutional (i.e., school, etc.)
- Other__________________
- Single Family Residence
- Multi-Family Residential
- Model Home
- Mixed Use

**Project Contacts** - The project applicant and other individuals may receive inquiries or notifications of all proceedings regarding the Water Efficient Landscape Worksheet from the City. Please provide the name, address, email address, and telephone, etc. of each person to receive such inquiries and notifications.

1. **Project Applicant**
   - Name
   - Telephone and Fax Number
   - Title
   - Email address
   - Company
   - Street Address
   - City
   - State
   - Zip Code

2. **Property Owner**
   - Name
   - Telephone #
   - Fax #
   - Title
   - Email address
   - Company
   - Street Address
   - City
   - State
   - Zip Code

3. **Licensed Landscape Architect**
   - Name
   - Telephone #
   - Fax #
   - Title
   - Email address
   - License #
   - Company
   - Street Address
   - City
   - State
   - Zip
4. **Certified Irrigation Designer**

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fax #</td>
<td>Email address</td>
</tr>
<tr>
<td>Title</td>
<td>License #</td>
</tr>
<tr>
<td>Company</td>
<td>Street Address</td>
</tr>
<tr>
<td>City</td>
<td>State</td>
</tr>
</tbody>
</table>

5. **Landscape Installation Contractor**

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fax #</td>
<td>Email address</td>
</tr>
<tr>
<td>Title</td>
<td>State License #</td>
</tr>
<tr>
<td>Company</td>
<td>Street Address</td>
</tr>
<tr>
<td>City</td>
<td>State</td>
</tr>
</tbody>
</table>

6. **Landscape Maintenance Contractor (if known)**

<table>
<thead>
<tr>
<th>Name</th>
<th>Telephone #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fax #</td>
<td>Email address</td>
</tr>
<tr>
<td>Title</td>
<td>State License #</td>
</tr>
<tr>
<td>Company</td>
<td>Street Address</td>
</tr>
<tr>
<td>City</td>
<td>State</td>
</tr>
</tbody>
</table>

7. **Local retail water purveyor**

<table>
<thead>
<tr>
<th>Name of contact at water purveyor</th>
<th>Telephone No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fax No.</td>
<td>Title</td>
</tr>
<tr>
<td>Email address</td>
<td>Name of Company or Water Purveyor</td>
</tr>
<tr>
<td>State</td>
<td>Zip Code</td>
</tr>
</tbody>
</table>
SECTION B. WATER USE EFFICIENCY STATEMENT

Provide a narrative summary of the water use efficiency practices applied to the landscape project and answer all of the following questions (attach additional sheets if necessary):

Narrative Statement: ____________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
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____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

Questions:

(1) Did you review the ordinance to learn about the criteria and specifications for landscape design plans? Yes_______ No________

(2) Did you coordinate with the City or local retail water purveyor on the landscape plan? ____________________________

(3) Which criteria and specifications did you apply to the landscape design plan? ______________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

(4) Did you review the ordinance to learn about the criteria and specifications for the irrigation design plan? ____________________________

(5) Did you coordinate with the City or local retail water purveyor on the irrigation design plan? ____________________________
____________________________________________________________________________
____________________________________________________________________________

(6) Which criteria and specifications plan did you apply to your irrigation design plan? ____________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
(7) Did you ask for assistance from the City/local retail water purveyor to calculate a project water budget? ____________________________________________________
______________________________________________________________________
______________________________________________________________________

(8) Did you receive any water efficient landscape publications from the City or local retail water purveyor?
______________________________________________________________________
______________________________________________________________________

(9) How would you assure the overall quality of the irrigation system?
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________

(10) How will you manage the irrigation system for optimum operation and performance?
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________

(11) How will you manage the irrigation system to respond to the changing requirement for water in the landscape?
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________

(12) Did you apply any stormwater best management practices to the design? ______
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________

(13) If recycled water was available, did you design and install a duel distribution system?
______________________________________________________________________

(14) Did you select plants from plant lists provided by the City of Palmdale?
______________________________________________________________________
______________________________________________________________________
SECTION C. Water Budget Calculation

Section CI. Maximum Applied Water Allowance

The Project’s Maximum Applied Water Allowance shall be calculated using this equation:

\[ \text{MAWA} = (\text{ETo}) (0.8) (\text{LA}) (0.62) \]

- **MAWA** = Maximum Applied Water Allowance (gallons per year)
- **ETo** = Reference Evapotranspiration (inches per year)
- **0.8** = ET Adjustment Factor
- **LA** = Landscaped Area (square feet)
- **0.062** = Conversion factor (to gallons)

**Maximum Applied Water Allowance** = __________________________ gallons

Show calculations:

Recycled or Blended Water information

If the irrigation water (recycled water or blended water) has electrical conductivity equal to, or greater than, 3 deci Siemens per meter (dS/m) or 3 millimhos per centimeter (mmh/cm) or 2000 mg per liter total dissolved solids (TDS), a leaching factor of up to 10% may be included in the MAWA calculation. The leaching factor shall not exceed 10% of MAWA.

**Section C2.** Estimated amount of water expected from effective precipitation has been eliminated because the City of Palmdale does not receive enough reliable rainfall in any given year to utilize this information.
Section C3. Estimated Water Use for hydrozones and Estimated Total Water Use
The project’s Estimated Total Water Use is calculated using the following formula:

\[ EWU = \frac{(ETo) \cdot (PF) \cdot (HA) \cdot (0.62)}{(IE)} \]

- **EWU** = Estimated total water use for a hydrozone (gallons)
- **ETo** = Reference evapotranspiration (inches per month)
- **PF** = Plant Factor
- **HA** = Hydrozone area (square feet)
- **0.62** = Conversion factor
- **IE** = Irrigation efficiency

Show calculations for each hydrozone (attach additional sheets if necessary).

\[ ETWU = \sum_{i=1}^{n} (EWU_i) \]

- **i** = hydrozone number
- **n** = total number of hydrozones

Estimated Total Water Use=_________________________________gallons

Show calculations:

Section C4. Estimated Applied Water Use - This section has been eliminated because the City of Palmdale does not utilize effective rainfall in these calculations
Section C5: Additional Water Requirements
Recreational areas and areas permanently and solely dedicated to edible plants may require water in addition to the Maximum Applied Water Allowance. Please be sure to provide a statement in the landscape design plan and in the irrigation schedule, designating those portions of the landscape to be used for such purposes, and specifying any additional water needed above the Maximum Applied Water Allowance. The total amount of irrigation water allowed for these areas shall not exceed 1.0 of ETo.

Show calculations:

SECTION D. HYDROZONE INFORMATION

Section D1. Hydrozone Map
Attach a hydrozone map to the Water Efficient Landscape Worksheet. Hydrozones shall be designated by number, letter, or other designation. Designate the areas irrigated by each valve, and assign a number to each valve. Use this valve number in Section D2 – Hydrozone Table. This map can also assist with pre and final inspections of the irrigation system, and programming the controller.
Please complete the hydrozone table(s) for each irrigation point of connection. Use as many worksheets as necessary to provide square footage of landscape area per valve.

<table>
<thead>
<tr>
<th>Irrigation Point of Connection (P.O.C.) #</th>
<th>Controller #</th>
<th>Valve Circuit #</th>
<th>Plant Type(s)*</th>
<th>Irrigation Method</th>
<th>Area (Sq. Ft.)</th>
<th>% landscape area</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

* Plant Type

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>CST</td>
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<tr>
<td>WST</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LW</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Irrigation Method

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>S</td>
<td></td>
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</tr>
<tr>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
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</tr>
</tbody>
</table>

CST = Cool Season Turf
WST = Warm Season Turf
HW = High Water Use Plants
MW = Moderate Water Use Plants
LW = Low Water Use Plants

S = Spray
R = Rotor
B = Bubbler
D = Drip
**Section D3. Hydrozone Calculations Summary (Blank Form)**

Please complete a hydrozone calculation summary for each irrigation point of connection.

<table>
<thead>
<tr>
<th>Irrigation Point of Connection #</th>
<th>Hydrozone</th>
<th>Total Square Feet</th>
<th>% of Total Landscape Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cool Season Turf</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Warm Season Turf</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Water Use Plants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moderate Water Use Plants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low Water Use Plants</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High and Medium Water Mix</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Medium and Low Water Mix</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Comments**

______________________________________________________________________
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________
______________________________________________________________________

**SIGNATURES:**

I further acknowledge and agree under penalty of perjury under the laws of the State of California that the information contained in the Water Efficient Landscape Worksheet is true and correct.

___________________________________  ____________________________
Signature of Project Applicant        Date
The hydrozone table and hydrozone calculation summary are provided below as examples only.

### Irrigation Point of Connection (P.O.C.) #1 Main Street

<table>
<thead>
<tr>
<th>Controller #</th>
<th>Valve Circuit #</th>
<th>Plant Type</th>
<th>Irrigation Method</th>
<th>Area (sq.ft.)</th>
<th>% of Landscape area</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>HW/MW</td>
<td>Bubbler</td>
<td>275</td>
<td>2.8%</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>HW</td>
<td>Bubbler</td>
<td>275</td>
<td>2.8%</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
<td>LW</td>
<td>Drip</td>
<td>1040</td>
<td>10.5%</td>
</tr>
<tr>
<td>1</td>
<td>4</td>
<td>CST</td>
<td>Spray</td>
<td>496</td>
<td>5.0%</td>
</tr>
<tr>
<td>1</td>
<td>5</td>
<td>LW</td>
<td>Drip</td>
<td>600</td>
<td>6.1%</td>
</tr>
<tr>
<td>1</td>
<td>6</td>
<td>CST</td>
<td>Spray</td>
<td>1600</td>
<td>16.2%</td>
</tr>
<tr>
<td>1</td>
<td>7</td>
<td>LW</td>
<td>Drip</td>
<td>724</td>
<td>7.3%</td>
</tr>
<tr>
<td>1</td>
<td>8</td>
<td>MW/LW</td>
<td>Drip</td>
<td>1852</td>
<td>18.8%</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>CST</td>
<td>Spray</td>
<td>1600</td>
<td>16.2%</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>HW</td>
<td>Bubbler</td>
<td>80</td>
<td>0.8%</td>
</tr>
<tr>
<td>2</td>
<td>3</td>
<td>LW</td>
<td>Drip</td>
<td>780</td>
<td>7.9%</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
<td>LW</td>
<td>Drip</td>
<td>548</td>
<td>5.6%</td>
</tr>
</tbody>
</table>

### Hydrozone Summary

<table>
<thead>
<tr>
<th>Hydrozone</th>
<th>Total Square Feet</th>
<th>% of Total Landscape Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cool Season Turf</td>
<td>3696</td>
<td>37.0</td>
</tr>
<tr>
<td>Warm Season Turf</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>High Water Use Plants</td>
<td>355</td>
<td>3.6</td>
</tr>
<tr>
<td>Moderate Water Use Plants</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Low Water Use Plants</td>
<td>3692</td>
<td>37.6</td>
</tr>
<tr>
<td>High and Medium Water Mix</td>
<td>275</td>
<td>2.3</td>
</tr>
<tr>
<td>Medium and Low Water Mix</td>
<td>1852</td>
<td>18.7</td>
</tr>
<tr>
<td>Total</td>
<td>9870</td>
<td>100%</td>
</tr>
</tbody>
</table>
### Local Agency Details

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature of the Local Agency Representative</td>
<td></td>
</tr>
<tr>
<td>Name of the Local Agency Representative</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td></td>
</tr>
<tr>
<td>Telephone Number</td>
<td></td>
</tr>
<tr>
<td>Email Address</td>
<td></td>
</tr>
<tr>
<td>Name of Local Agency</td>
<td></td>
</tr>
<tr>
<td>Name of Department/Division/Unit</td>
<td></td>
</tr>
<tr>
<td>Street Address</td>
<td></td>
</tr>
<tr>
<td>City</td>
<td></td>
</tr>
<tr>
<td>State and Zip Code</td>
<td></td>
</tr>
</tbody>
</table>

For this project the Permit, Plan Check, or Design Review has been:

- **Issued on Date:** __________
  Notes: ________________________________________________________

- **Denied on Date:** __________
  Notes:_________________________________________________________________
  _____________________________________________________________________
  _____________________________________________________________________
  _____________________________________________________________________
  _____________________________________________________________________

Comments
____________________
_______________________________________________________
_______________________________________________________
_______________________________________________________
_______________________________________________________