



Community & Economic Development Department

Planning Division

3900 Main Street, Riverside, CA 92522 | Phone: (951) 826-5371 | RiversideCA.gov

Administrative Landscape & Irrigation Plan Review Checklist

I. BACKGROUND INFORMATION

Case Number:

Project Name:

Project Address:

Total Landscape Area (Square Feet):

Land Use:

Case Planner:

Applicant:

Date:

II. DESIGN STANDARDS – GENERAL

Standard	Does the Project Meet the Standard?		
	YES	NO	N/A
WESTERN MUNICIPAL WATER DISTRICT: Did the WMWD have comments on the landscape and irrigation plans? Review water service area boundaries to determine if project is located within the WMWD service boundary.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUBLIC WORKS: Did Public Works have comments on the landscape and irrigation plans?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUBLIC WORKS DEPARTMENT REQUIREMENTS: All requirements of the City's Public Works Department (www.riversideca.gov/trees) have been complied with, including the following:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. Street trees are coordinated with the on-site landscaping, and the designated tree types, numbers, and required spacing of the trees are shown on the plans.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. All plan check fees as determined by the Public Works Department have been paid.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<p>C. All general notes, and planting and staking details have been included on the plans, as required by the Public Works Department.</p> <p>General planting and staking details can be found at: www.riversideca.gov/pworks/drawings.asp</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>PARKWAY AREAS: Where provided, public parkways have been planted with living groundcover, with the overall maintenance the responsibility of the subject property owner.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>CONDITIONS OF APPROVAL: Have all landscape and irrigation conditions of approval of all associated project cases been addressed by these plans?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III. DESIGN STANDARDS - LANDSCAPING

Standard	Does the Project Meet the Standard?		
	YES	NO	N/A
<p>PLANTING PLAN PREPARATION: The planting plan shall be prepared, wet-stamped, and signed by a licensed landscape architect, as defined in Section 19.570.120. Plans submitted without the signature of a licensed landscape architect shall not be accepted for review.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>PRESERVATION: Existing plants and natural features are clearly identified. Significant specimens and features are specified to be preserved on the site as appropriate.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>LANDSCAPING FOR PROJECT ENHANCEMENT: The proposal uses plant materials creatively to accent entries, soften or reinforce building lines and draw attention to important features.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>SOFTENING HARD LINES: The proposal uses shrubbery at the base of building, freestanding and retaining walls to soften the hard edge between paving surfaces and wall surfaces.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>BUFFERING UNDESIRABLE VIEWS: Trees, shrubs and mounded groundcover are used to soften the view towards parking lots, loading areas, trash enclosures, and storage areas. Landscape screening is shown on plans for backflow preventers, gas meters, transformers, air conditioning condensers, above ground pipes and valves or any other equipment.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>SLOPES: Graded slopes are provided with sufficient landscaping and irrigation coverage for erosion control, and to soften the view to cut and fill slopes from surrounding public views.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>III. Design Standards - Landscaping Comments:</p>			

Standard	Does the Project Meet the Standard?		
	YES	NO	N/A
PARKING LOT SCREENING: Parking lots have been screened from street view in compliance with the Zoning Code (Section 19.580.090 – Parking Lot Landscaping) through the use of:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. <i>Between Parking Lot and Street Right-of-Way</i> – Minimum three-foot high landscaping provided for partial screening of vehicles. Landscaping height shall be measured from finished grade of the parking lot. Screening materials may include any combination of plant materials, earthen berms, solid masonry walls, raised planters, or other screening device deemed by the Community & Economic Development Director to comply with the intent of this requirement. This provision shall not apply when a masonry wall is required for single-family residential properties.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. <i>Between Drive-Through Lane and Street Right-of-Way</i> – A 3-foot-high landscape screen shall be established along the outer edge of drive-through aisles. Screening materials may include a combination of plant materials, wall, raised planters, and berm as approved by the Community & Economic Development Director.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. A combination of the above two items provided, or an alternative buffer subject to the written approval of the Community & Economic Development Director.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PARKING LOT FINGER AND END PLANTERS: Within the parking lot, minimum 5-gallon shrubs are provided within the end row planters and finger planters. Shrubs are closely spaced to discourage pedestrian traffic across these planters. A minimum 12-inch wide concrete walkway, including curb width, shall be provided along the sides of landscape planters that are adjacent to a parking stall.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PARKING LOT SHADING: Canopy trees are provided to shade the parking areas as follows:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. Tree Wells: Trees shall be planted and maintained in all parking lots at a ratio of 1 tree for every 4 parking spaces (may be clustered or grouped). Trees shall be placed to ensure that all portions of the parking lot have tree shade. Trees shall be a variety that provides a broad canopy. Section 19.580.090(A).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. End Row Planters: One tree provided within each end planter, next to a parking stall. Two trees provided at the end of each double row of stalls.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. Finger Planters: One tree provided within each finger planter, centered with the adjacent parking stall.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Strip Planters: One tree in line with the edge of the parking stall.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STREET MEDIANS: High water use plants are prohibited in street medians.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
III. Design Standards - Landscaping Comments:			

Standard	Does the Project Meet the Standard?		
	YES	NO	N/A
CURBS: Planter beds in parking areas are protected by 6" wide by 6" tall concrete curbing, except when adjacent to a parking stall, where 12" width is required. Refer to the condition of approval below.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
UTILITY EQUIPMENT SCREENING: Landscape plan shows the locations of all backflow preventers (irrigation and double detector check), gas meters, transformers, air conditioning condensers, above ground pipes and valves or any other equipment not otherwise designated for screening. Plan shows how equipment will be screened by landscaping. (Contact the Utilities Department for minimum clearances from transformers).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLANTING PLAN: Planting plans shall identify the following (Section 19.570.030):			
a. Trees, shrubs, groundcovers, and turf areas within the proposed landscape area, each clearly delineated by symbol and/or callout,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Planting legend indicating all plant species by botanical name and common name, spacing, Water Use Classification of Landscape Species (WUCOLS) plant classifications, and quantities of each type of plant by container size,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Designation of hydrozones,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Total area in square feet, devoted to landscaping, and a breakdown of the total area by landscape hydrozones,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Property lines, streets, and street names,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Building locations, driveways, sidewalks, retaining walls, and other hardscape features,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Appropriate scale and north arrow,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Any Special Landscape Areas (SLA), as defined in Section 19.570.120 – Definitions,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Type of mulch and application depth,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. Type and surface area of any water features,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
k. Type and installation details of any applicable stormwater best management practices,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
l. Planting specifications and details including the recommendations from the soils analysis, pursuant to the provisions of Section 19.570.030,	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
III. Design Standards - Landscaping			
Comments:			

Standard	Does the Project Meet the Standard?		
	YES	NO	N/A
<p>m. Maximum Applied Water Allowance (MAWA) - Planting Plans shall be prepared using the following formula to establish a maximum water allowance:</p> <p style="text-align: center;">$MAWA \text{ (in gallons/yr)} = (ET_o)(0.62)[(ETAF \times LA) + (1 - ETAF \times SLA)]$ ETAF is 0.55 for residential areas and 0.45 for non-residential areas.</p> <p>For additional information, refer to the Riverside Citywide Design Guidelines, Appendix C, Water Efficient Landscaping and Irrigation Design Guidelines for further instruction and worksheet.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>n. Estimated Total Water Use (ETWU) - ETWU for each designed hydrozone is calculated as follows:</p> <p style="text-align: center;">$ETWU \text{ (in gallons/yr)} = (ET_o)(0.62)[(ETAF \times LA) + SLA]$ ETAF is calculated by dividing to Plant Factor (PF) by the Irrigation Efficiency (IE)</p> <p>IMPORTANT: The EAWU shall not exceed the MAWA for the project.</p> <p>For additional information, refer to the Citywide Design Guidelines, Appendix C, Water Efficient Landscaping and Irrigation Design Guidelines for further instruction and worksheet.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>PLANT TYPES: Plants with the same water use classification shall be grouped together in hydrozones with regard to their water, soils, sun, and shade requirements and in relationship to buildings. Hydrozones with different water needs shall be irrigated separately. Deviation from these groupings are discouraged, but shall be conditionally allowed. For additional information, refer to the Riverside Citywide Design Guidelines, Appendix C, Water Efficient Landscaping and Irrigation Design Guidelines.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>PLANT VARIETY: The site landscaping makes use of a variety of plant materials, (minimum of 3 types of trees, 3 types of shrubs and 2 types of groundcover) which are suited to Riverside's inland climate. There is a mix of deciduous and evergreen trees. The WELO incorporates by reference any plant list that promotes the use of water efficient and climate appropriate plant materials. Also refer to the Riverside Citywide Design Guidelines, Appendix C, Water Efficient Landscaping and Irrigation Design Guidelines, Section V., Climate Appropriate Plant for the City of Riverside.</p> <p>Invasive species of plants shall be avoided, especially near parks, buffers, greenbelts, water bodies, and open spaces.</p> <p>For projects located in the Sycamore Canyon, Canyon Springs, Mission Grove, or Canyon Crest Neighborhoods, refer to Riverside County Multiple Species Habitat Conservation Plan, Table 6-2 (<i>Plants That Should be Avoided Adjacent to the MSHCP Conservation Area</i>) to avoid the use of invasive plant species. Section 19.570.030. MSHCP Table 6-2 can be found at: www.wrc-rca.org</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>III. Design Standards - Landscaping</p> <p>Comments:</p>			

Standard	Does the Project Meet the Standard?		
	YES	NO	N/A
PLANT CONTAINER SIZES: The minimum plant material size is generally consistent with the standards as established for review, including:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A. Flats: Acceptable for groundcovers; space to provide 100% coverage in approximately 6 months.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. 1-Gallon Plants: Acceptable for small accent plants and low shrubs intended as groundcover or border plantings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C. 5-Gallon Plants: Minimum acceptable size for large accent shrubs, screens, hedges and foundation plantings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. 15-Gallon Plants: Minimum acceptable tree size (see below for 24" box and 36" box exceptions).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. 24" Box: Minimum acceptable tree size for 20% of trees in projects of 1 acre or larger in size.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. 36" Box: Minimum acceptable tree size for 10% of trees in projects of 1 acre or larger in size.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLANT PLACEMENT: Plants placed in a manner that considers solar orientation to maximize summer shade and winter solar gain, Section 19.570.030. For additional information, refer to the Riverside Citywide Design Guidelines, Appendix C, Water Efficient Landscaping and Irrigation Design Guidelines.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TREES: Shade trees shall be provided for residential, commercial, and industrial buildings, parking lots, and open space areas. Deciduous or evergreen trees incorporated for the purpose of energy and water conservation. Section 19.570.030.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLANT SELECTION IN FIRE-PRONE AREAS: Plant selection for projects in fire-prone areas shall address fire safety and prevention. A defensible space or zone around a building or structure per Public Resources Code Section 4291(a) and (b). Fire prone plant materials & and highly flammable mulches avoided. Section 19.570.030. Public Resources Code (PRC) Section 4291(a) and (b) can be found at: http://www.leginfo.legislature.ca.gov .	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
III. Design Standards - Landscaping Comments:			

Standard	Does the Project Meet the Standard?		
	YES	NO	N/A
<p>MULCH: A minimum 3-inch layer of mulch material shall be provided for all exposed soil surfaces of non-turf areas. A minimum of one and one-half inches (1 ½") of mulch material shall be provided for groundcover areas planted from flats. Section 19.570.030.</p> <p>For slope conditions, mulch products shall be carefully selected to help stabilize and control soil erosion.</p> <p>For additional information, refer to the Riverside Citywide Design Guidelines, Appendix C, Water Efficient Landscaping and Irrigation Design Guidelines.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>LAWN AND SHRUB AREA SEPARATION: Concrete mow strips provided between all lawn and shrub areas for non-residential projects.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>TURF: Turf areas are designed in response to functional needs and in compliance with the Maximum Applied Water Allowance, Section 19.570.030. For additional information, refer to the Riverside Citywide Design Guidelines, Appendix C, Water Efficient Landscaping and Irrigation Design Guidelines.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>DECORATIVE WATER FEATURES: Decorative water features use recirculating water systems. Section 19.570.030.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>III. Design Standards - Landscaping</p> <p>Comments:</p>			

IV. DESIGN STANDARDS - IRRIGATION

Standard	Does the Project Meet the Standard?		
	Yes	No	N/A
<p>IRRIGATION DESIGN PLAN PREPARATION: The irrigation design plan has been prepared, wet-stamped, and signed by a certified irrigation designer, as defined in Section 19.570.120 – Definitions, or a licensed landscape architect, as defined in Section 19.570.120 – Definitions. Section 19.570.030.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>WATER WASTE PREVENTION: All irrigation systems are designed to prevent runoff, over-spray, lowhead drainage and other similar conditions where water flows off-site on to adjacent property, non-irrigated areas, walk, roadways, or structures. Irrigation systems are designed, constructed, managed, and maintained to achieve as high an overall efficiency as possible. The irrigation system is designed to ensure that the dynamic pressure at each emission device is within the manufacturer's recommended pressure range for optimal performance. Section 19.570.030.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>RECYCLED WATER: Recycled water shall be used where available as the course for irrigation and decorative water features, consistent with Chapter 14.28 – Mandatory Use of Recycled Water. Section 19.570.070.</p> <p>Installation of recycled water systems (dual distribution systems) may be required by the Community & Economic Development Director to allow for the current and future use of recycled water. Section 19.570.070.</p> <p>Water systems for common open space areas shall use non-potable water, if approved facilities are made available by the water purveyor. Provisions for the conversion to a non-potable water system shall be provided within the landscape plan. Water systems designed to utilize non-potable water shall be designed to meet all applicable standards of the California Regional Water Quality Control Board, the Riverside County Health Department, and the water purveyor.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>DEDICATED LANDSCAPE WATER METERS: Shall be required for all non-residential projects with an irrigated area of 1,000 square feet but not more than 5,000 square feet and single-family residential projects with an irrigated area of 5,000 or more.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>IV. Design Standards - Irrigation Comments:</p>			

Standard	Does the Project Meet the Standard?		
	Yes	No	N/A
BACKFLOW PREVENTION DEVICES: Shall be required to protect the water supply from contamination of the irrigation system. Not necessary when plan specifies the use of anti-siphon irrigation valves or when using recycled water systems. Section 19.570.030.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MASTER VALVE: Shall be required on all projects except when the irrigation emission device is equipped with a low pressure shut down feature.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLOW SENSOR: Shall be required on all non-residential projects and residential projects over 5,000 square feet.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MANUAL SHUT-OFF VALVE: A manual shut-off valve shall be required as close as possible to the point of connection of the water supply, to minimize water loss in case of an emergency or routine repair. Section 19.570.030.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PRESSURE REGULATOR: A pressure regulating device shall be required when the static water pressure is above or below the recommended operating pressure of the irrigation system. Section 19.570.030.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
VALVE PLACEMENT: Valves are provided in below grade valve boxes to minimize vandalism and enhance the appearance of the irrigation system, except for small residential projects where above grade anti-siphon valves can be located adjacent to house and out of view from street.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IRRIGATION PIPES: The type of pipe, the pipe rating and pipe sizes are specified on the plans in a readable legend. Main lines are typically PVC Schedule 40, lateral lines are a minimum PVC Class 200, and lines under paving have PVC Schedule 40 sleeves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DESIGN FOR 100% OVERLAPPING COVERAGE: The irrigation system is designed to provide 100% overlapping side-to-side and head-to-head coverage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BROWN LINE PIPING: Brown line piping allowed on sloped areas, if staked properly.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OVERHEAD IRRIGATION RESTRICTIONS: Plans shall note the following on the irrigation schedule: "Overhead irrigation shall be limited to the hours between 6 p.m. and 10 a.m." Section 19.570.030.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SPRINKLER RISER PROTECTION: Triple swing joints are provided to protect all sprinkler heads. Flexible risers are required for all heads.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IV. Design Standards - Irrigation Comments:			

Standard	Does the Project Meet the Standard?		
	Yes	No	N/A
<p>OVERHEAD IRRIGATION PLACEMENT: No overhead irrigation within 24 inches of any non-permeable surface. Allowable irrigation within the setback from non-permeable surfaces may include drip, drip line, or other low flow non-spray technology. This restriction may be modified if (Section 19.570.030):</p> <ul style="list-style-type: none"> A. The landscape area is adjacent to permeable surfacing and no runoff occurs; or B. The adjacent non-permeable surfaces are designed and constructed to drain entirely to the landscaping; or C. The irrigation designer specifies an alternative design or technology, as part of the submittal, and clearly demonstrates strict adherence to the irrigation design plan requirements. Prevention of overspray and runoff must be confirmed during the irrigation audit. 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>DRIP SYSTEM: If a drip irrigation system is provided, all necessary tubing and emitters are specified, with appropriate connectors and staking indicated.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>LONG, NARROW, OR IRREGULARLY SHAPED AREAS: Areas including turf, less than ten (10) feet in width in any direction irrigated with subsurface irrigation or low-volume irrigation technology. Section 19.570.030(B)(11)</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>PARKWAY AREAS: The irrigation system is extended into public parkways, where provided, to maintain the landscaping being installed.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>SPARSE PLANTING AREAS: Low volume irrigation is required in planters where sparse landscaping exists, which create areas of exposed mulch or decomposed granite between shrubs or shrub masses.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>SLOPES: Slopes greater than 25% (4:1) shall not be irrigated with an irrigation system with an application rate exceeding 0.75 inches per hour. This restriction may be modified if the landscape designer specifies an alternative design or technology, as part of the submittal, and clearly demonstrates no runoff or erosion will occur. Prevention of runoff and erosion must be confirmed during the irrigation audit. Section 19.570.030.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>IV. Design Standards - Irrigation Comments:</p>			

Standard	Does the Project Meet the Standard?		
	Yes	No	N/A
IRRIGATION DESIGN PLAN: The irrigation design plan shall identify the following (Section 19.570.030):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. Hydrozones. i. Each hydrozone is designated by number, letter or other notation. ii. A Hydrozone Information Table is prepared for each hydrozone. At a minimum, the table includes hydrozone notation, irrigation equipment, hydrozone classification (low, moderate or high), and related square footages.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. The areas irrigated by each valve; with valve notation, size, and total gpm clearly shown.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Irrigation point of connection (POC) to the water system;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Static water pressure at POC Section 19.570.030(B)(6);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Location and size of water meter(s), service laterals, and backflow preventers;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Location, size, and type of all components of the irrigation system, including automatic controllers, main and lateral lines, valves, sprinkler heads and nozzles, pressure regulator, drip and low volume irrigation equipment;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Irrigation legend with the manufacturer name, model number, and general description for all specified equipment, separate symbols for all irrigation devices with different spray patterns, spray radius, drip flow rates, drip emitter and line spacing, and precipitation rates. i. Total flow rate in gallons per minute (gpm) and/or gallons per hour (gph), and design operation pressure in pounds per square inch (psi) for each irrigation device, ii. Sprinkler heads and other emission devices shall have matched precipitation rates. Section 19.570.030. iii. Relevant information from the soil management plan/report, such as soil type and infiltration rate, shall be noted.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Automatic irrigation controllers utilizing either evapotranspiration, or soil moisture sensor data with non-volatile memory, shall be required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
i. Rain sensing device that automatically stops or adjusts an irrigation event during rainy weather. Additional water conservation technology may be required, where necessary, at the discretion of the Community & Economic Development Director.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
j. Irrigation system details for assembly and installation;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Standard	Does the Project Meet the Standard?		
	Yes	No	N/A
k. An irrigation schedule shall be developed for plant establishment, established landscape and temporarily irrigated areas. For additional information, refer to the Riverside Citywide Design Guidelines, Appendix C, Water Efficient Landscaping and Irrigation Design Guidelines.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PLANTING AND IRRIGATION PLANS: The planting and irrigation plans are drawn at the same size and scale.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IV. Design Standards - Irrigation Comments:			

V. ENVIRONMENTAL DETERMINATION:

Landscaping is categorically exempt per the California Environmental Quality Act (CEQA) pursuant to Section 15304 (b) of the CEQA Guidelines.

VI. REQUIRED CORRECTIONS:

A. Revise the submitted landscape and irrigation plans and send four copies to the Community Development Department Planning Division for Staff Review, incorporating the following changes:

GENERAL COMMENTS

1. Enter WMWD's comments here (if applicable)
2. Enter Public Works' comments here (if applicable)
3. Enter any landscape and irrigation conditions of approval of all associated project cases which have not been addressed by these plans (if applicable)

TYPICAL COMMENTS FOR DESIGN STANDARDS – LANDSCAPING (Select any that apply/Delete those that don't apply)

1. Revise the landscape plan to show the locations of all backflow preventers (irrigation and double detector check), gas meters, transformers, air conditioning condensers, above ground pipes and valves or any other equipment not otherwise designated for

screening, and show how such equipment will be screened by landscaping. (Contact the Utilities Department for minimum clearances from transformers).

2. Submit for Design Review staff approval, details showing how parking areas will be screened from street views. Screening must consist of one of the following:
 - a. a 3' high landscaped berm
 - b. a 3' high shrub row
 - c. a combination of the above

Shrubbery and walls must be located toward the rear of the landscaped setback.

3. A minimum 12-inch concrete walkway, including curb width, shall be provided along the sides of landscape planters whenever the side of a parking stall is adjacent to it.
 - a. Revise the landscape plan to incorporate closely spaced minimum 5-gallon shrubbery in all parking lot end row planters and finger planters. Shrubbery should have a natural growth height of 18" to 36".
 - b. Specify substantial clusters of minimum 5-gallon size shrubbery at the base of all freestanding walls so as to help break the wall masses.
4. Incorporate substantial clusters of minimum 5-gallon size shrubbery to serve as foundation plantings at the base of all building walls.
5. Utilize the Public Works Department's standard tree planting and staking detail, specifying DOUBLE STAKING and TIRE STRIP TIES.
6. Design all property line planters so they drain away from the adjacent property. Where retaining walls are necessary for this purpose, specify block type and color to Planning staff for review.
7. Specify concrete mow strips between all lawn and shrub areas.
8. The planting of City street trees is the responsibility of the developer. Utilities and/or occupancy will be WITHHELD until street trees are installed. The Public Works Department inspects all street tree plantings and must be contacted before street trees are planted. Make sure the landscape installer is aware of this and contacts the Public Works Department (951) 826-5341 at least 48 hours before street trees are planted.

TYPICAL COMMENTS FOR DESIGN STANDARDS – IRRIGATION (Select any that apply/Delete those that don't apply)

9. Specify all sprinklers for triple swing joint riser protection.
10. Specify all sprinklers adjacent to walkways and automobile parking or driveway areas for “pop-up” heads.
11. Specify irrigation pipes under paved areas for placement in Schedule 40 sleeves.

VII. FOLLOW-UP:

- A. Resubmit the "redline plan" and three corrected sets of plans to the case planner for further review.
- B. Before calling for a landscape and irrigation inspection, have the "Certificate of Compliance" form filled out and signed by the designer/auditor responsible for the project and submit this form to **enter case planner name** (see enclosed forms).
- C. Call **enter case planner name** at **enter case planner phone number** to schedule the landscape inspection at least one week prior to needing the release of utilities.
- D. Upon approval by the case planner of the revised landscape and irrigation plans, one copy of the plans will be returned to the applicant, stamped “approved.” This set of plans must be used on the job site.

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