Edited 8/22

Irrigation Plan Checklist

Plan Contents

Certifications	
☐	Certification of Professional Qualifications (Appendix I)

Site Design Considerations	
☐	Prevailing winds and
☐	Slope aspects to include degree of slope (%)
☐	Soil type and infiltration rate
☐	Vegetation type
☐	Microclimates
☐	Expansive or hazardous soil conditions
☐	Water harvesting potential
☐	Available water supply, including non-potable and reclaimed water

Pertinent System Information	
☐	Irrigation zones substantially corresponding to hydrozones on the landscape plan and labeled by precipitation rates and method of application
☐	Water meters
☐	Call out the Tap-in location (and whether a stand-alone irrigation tap is anticipated)
☐	Provide the Static water pressure at the point of connection
☐	System controller
☐	Rain sensors (and other water conservation technology, soil moisture sensor, etc)
☐	Backflow preventers
☐	Shut-off valves and zone control valves
☐	Main line and lateral piping
☐	Sprinkler heads
☐	Drip irrigation tubing runs, and bubblers where necessary
☐	Type and size of main irrigation system components
☐	Graphic depiction of the locations of irrigation system components
☐	Total required operating pressure for each control valve/zone Recommend: Provide a worst case scenario or the 'critical calculations' of the system
☐	Utilization of any supplemental stormwater or irrigation run-off

System Design Standards	
System design is in conformance with the following standards:	
☐	Pedestrian surfaces located on plan; avoid watering across hard surfaces.
☐	Equipment installed flush with grade for safety
☐	Compliance with local codes
☐	Overspray onto impervious areas minimized
☐	Low volume and low trajectory spray nozzles used

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☐	Method of irrigation matched to size and shape of area, plant material for uniformity of coverage
☐	System designed in conformance with manufacturer's recommendation for efficiency
☐	Water pressure regulated with valves
☐	Water hammer and line and head drainage prevented
☐	Pressure compensating outlets used where pressure varies more than 20 percent (20%) or 20 p.s.i. (20 per square inch) from design operating pressure
☐	Adequate backflow protection installed
☐	Rain sensing device installed for automatically controlled system
☐	Controller has accurate timer, multiple program capacity, multiple repeat cycle, a 7 to 14 day program calendar and *one remote control valve per station*
☐	Irrigation lateral contains matched precipitation rates for sprinkler arcs
☐	Irrigation tap sized to irrigate site in the maximum time allowed for operation of the zones
☐	Irrigation component detail sheet provided
☐	Separate zones provided for different equipment or water requirements based on exposure, plant selection and slope
☐	Drainage not altered within existing plant communities to be conserved
☐	Existing non-irrigated plant communities to be retained are not irrigated (non disturbed areas)
☐	High water-use-turf areas zoned separately from shrubs and trees
☐	Irrigation provided to ensure germination, establishment, and long term care of native seed areas
	▪ In most cases, due to a lack of precipitation, strong weed competition, and the need for long term maintenance, permanent in-ground irrigation is necessary, particularly along commercial and residential frontages.
☐	Temporary irrigation may be proposed where plausible to support native vegetation. However, design techniques for water re-use must be exemplified such as grading (depressions or swales) to direct water, and supplying soil moisture to support vegetation.