

City of Scottsdale

2021 International Green Construction Code (IgCC)

Commercial Landscape Irrigation Checklist

rev. 6-23-23



1. Irrigation System Design (amended IgCC Section 601.3.1.2.1)

- The design of the irrigation system shall be performed by a certified landscape irrigation professional. See Irrigation Association and EPA WaterSense program.
- Irrigation systems**
 - a. Shall be based on *hydrozones*. *Turfgrass* areas shall be on their own *irrigation stations*. Trees in turfgrass shall have a separate drip irrigation zone.
 - b. Shall have backflow prevention in accordance with the city plumbing code (IPC)
 - c. Shall have a master valve on municipally supplied water sources that allows pressurization of the irrigation mainline only when irrigation is scheduled. The master valve shall be installed immediately downstream of the back flow prevention device.
 - d. Shall have an isolation valve installed immediately upstream of each irrigation control valve.
- Irrigation turfgrass sprinklers**
 - a. Shall not spray water directly on buildings or *hardscape* area.
 - b. Shall be prohibited on landscape areas having any dimension less than 8 ft.
 - c. Shall be limited to use with *turfgrass*.
 - d. Sprinkler heads including rotors, heads with rotating and fixed spray nozzles shall contain pressure regulating sprinkler bodies.
- Landscape emitters**
 - a. The drip irrigation control valve shall be equipped with a pressure regulator and a cleanable wye strainer filter.
 - b. At the end of each lateral, a flush cap shall be installed in a six (6) inch round pit box.
 - c. Drip emitters shall be of pressure compensating type.

2. Irrigation Controllers (amended IgCC Section 601.3.1.2.2)

- All irrigation systems shall use a weather based smart irrigation controller that is WaterSense labeled or equivalent and capable of frequency adjustment and day exclusion.
- The following settings and schedule for the irrigation control system shall be documented on the Compliance Certificate:
 - a. Precipitation rate of each *irrigation station*.
 - b. *Plant* factors for each *hydrozone*.
 - c. Soil type.
 - d. Rain sensor settings.
 - e. Peak demand schedule, including run times, cycle starts, and soak times.
 - f. Maximum runtimes to prevent water runoff and standing water.
 - g. Gallons per minute for each irrigation station.