GG122-14
404.1.2

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Revise as follows:

404.1.2 Irrigation system design and installation. Where in-ground irrigation systems are provided, the systems shall comply with all of the following:

1. The design and installation of outdoor irrigation systems shall be under the supervision of an irrigation professional accredited or certified by an appropriate local or national body.
2. Landscape irrigation systems shall not direct water onto building exterior surfaces, foundations or exterior paved surfaces. Systems shall not generate runoff.
3. Where an irrigation control system is used, the system shall be one that regulates irrigation based on weather, climatological or soil moisture status data. The controller shall have integrated or separate sensors to suspend irrigation events during rainfall.
4. Irrigation zones shall be based on plant water needs with plants of similar need grouped together. Turfgrass shall not be grouped with other plantings on the same zone.
5. Microirrigation zones shall be equipped with pressure regulators that ensure zone pressure is not greater than 40 psi (275.8 kPa), filters, and flush end assemblies.
6. Landscape sprinklers and emitters shall be listed and labeled to ASABE/ICC 802.
7. Sprinklers shall:
    1. Have nozzles with matched precipitation rates.
    2. Be prohibited on landscape areas less than 4 feet (1230 mm) in any dimension.
    3. Be prohibited on slopes greater than 1 unit vertical to 4 units horizontal (25- percent slope). Be permitted for use on turfgrass and crop areas only excepting microsprays of a flow less than 45 gallons (170 liters) per hour.

        Exception: Where the application rate of the sprinklers is less than or equal to 0.5 inches (12.7 mm) per hour.

    4. If of the pop-up configuration, pop-up to a height of not less than 4 inches (101 mm).
    5. Only be installed in zones composed exclusively of sprinklers and shall be designed to achieve a lower quarter distribution uniformity of not less than 0.65.

Add new standard(s) as follows:

ASABE

ASABE/ICC 802-XXXX Landscape Irrigation Sprinkler and Emitter Standard

Reason:

I've requested addition of one call out to section 404.1.2. The new callout is numbered 6 and the former number 6 is moved to number 7. The new call out is "Landscape sprinklers and emitters shall be listed and labeled to ASABE/ICC 802".

The primary reason to add this call out is that ASABE in partnership with ICC have completed a standard for landscape sprinklers and emitters (ASABE/ICC 802). This standard should be added to the 2015 IgCC. Adding this call out will:

* enable easier and improved selection process of landscape irrigation components when designing and specifying landscape irrigation systems

* result in better compliance by installers of the goals and expectations of the design, specification and overall intent of projects undertaken within the IgCC

*result in improved design and performance of landscape irrigation systems included in projects undertaken within the IgCC

* furnish inspect-able elements of a project undertaken within the IgCC related to landscape irrigation system installation

* result in enhanced safety and reliability of landscape irrigation system performance

* enable guidance of practitioners to include such listed and labeled equipment replacements or additions when undertaking landscape irrigation maintenance or retrofit events following a project undertaken within the IgCC.

The location of the proposed addition is consistent with the topics and text of the existing chapter and seems to be the most appropriate place to add the call out within the current structure and format of the IgCC.

Cost Impact: Will increase the cost of construction. Including the call out requested herein is estimated to increase the cost of construction of a landscape irrigation system on a property between 1% (one percent) and 3% (three percent) depending on several variables.

However, when calculating total cost of ownership and enhanced safety and reliability of system performance, the increased cost is likely to result in a payback period of one to three years.

Analysis: A review of the standard proposed for inclusion in the code, ASABE/ICC 802-XXXX with regard to the ICC criteria for referenced standards (Section 3.6 of CP#28), will be posted on the ICC website on or before April 1, 2014.

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