

32 80 00 Irrigation

Revision 01/04/2019

Purpose:

The Architect and/or Engineer shall incorporate the Rice specific requirements indicated in this standard's section into their design. The Architect and/or Engineer shall further produce project specifications in line with industry standards that are updated to reflect these Rice specific requirements.

1. General Requirements

- a. Performance expectation is to reduce potable water consumption for irrigation by at least 50% from the calculated baseline for the site's peak watering month as calculated in the Environmental Protection Agency (EPA) WaterSense Water Budget Tool.
- b. Architect shall meet with Rice Project Manager to determine the need to evaluate non-potable water sources to meet irrigation needs, including groundwater from dewatering of basements, HVAC condensate, harvested rainfall, on-site treated wastewater, etc. The decision to evaluate shall be accomplished by 100% schematic design, and the evaluation completed prior to 100% Design Development.
- c. Automatic Irrigation System: new irrigation system design shall be based on Rainbird products including sprayheads and drip heads, valves, controllers etc.
- d. Utilize drip irrigation for all planters rather than spray irrigation.

2. Controller

- a. Location of controllers to be coordinated with Rice Project Manager prior to 100% Design Development.

3. Piping

- a. Utilize schedule 40 grade PVC pipe for all irrigation system piping.
- b. Utilize either swing joint construction or a flexible connection to spray heads.
- c. All irrigation waterlines shall be buried a minimum of 8" below grade.

4. Water Source

- a. Where possible irrigation water should be extended from an existing service so as not to require additional freshwater taps and backflow assemblies.
 1. If new potable water tap is required, this tap will require an independent meter. Architect shall coordinate with Rice Project Manager on locations of meter and backflow preventer prior to 50% Construction Documents.