



Custom Home in Austin, Texas

Homeowners Use Rain Bird Drip Technology to Irrigate Landscape with Harvested Rainwater

John and Jane McGehee have built a custom home in Austin, Texas on a large, 1.5-acre lot. They would like an eco-friendly solution to landscaping and irrigation that uses only rainwater collected in a 31,000-gallon tank on their property.

THE CHALLENGE

During the hottest and driest part of the year, all watering requirements must be met using only the collected rainwater. All landscaping must be drought-tolerant and the irrigation system must be highly efficient. The home sits on top of a hill, so the homeowners are rightfully concerned about runoff and drainage issues as well.

THE SOLUTION:

The property owners have partnered with Sagebrush Landscaping to install a variety of hardy, native shrubs, flowering plants and grass. They have also hired Pentecost Sprinkler Systems to design an efficient drip irrigation system that uses only harvested rainwater. The system will feature the latest in on-surface and subsurface dripline technology from Rain Bird—the industry leader in water-saving irrigation solutions.



QF Dripline Header

Core Products Used:

- [QF Dripline Header](#)
- [XFS-CV Dripline with Copper Shield™ Technology and Heavy-Duty Check Valve](#)
- [ESP-LXME Controller](#)
- [XF Dripline Insert Fittings](#)
- [TLF Series Twist Lock Fittings](#)
- [Drip System Operation Indicator Kit](#)

KEY OBJECTIVES

- ✓ **Utilize Harvested Rainwater**
- ✓ **Prevent Runoff**
- ✓ **Maximize Efficiency**
- ✓ **Meet Plant Watering Requirements**



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APPROACH:

Put Dripline to Work

XFS-CV Dripline will be used on the surface to irrigate shrubs and plants, as well as below the surface to irrigate the lawn. Its special emitters use Copper Shield™ Technology to prohibit root intrusion and clogging. Each emitter also has a built-in, heavy-duty check valve that prevents low-point drainage and keeps the dripline charged with water on slopes with elevation changes up to 10 feet (3 meters).

Simplify Installation & Operation

Pentecost Sprinkler Systems will use Rain Bird's **QF Dripline Header** to reduce installation time and ensure uniform dripline row spacing. This flexible supply header has rotating elbows that easily attach to the dripline, eliminating the need to cut and glue PVC and fittings together. A **Drip System Operation Indicator Kit** will also give end users clear visibility of system performance. When the drip system is on and reaches 20 psi, the indicator stem rises to signal that water is flowing.

“ After seeing all the compelling advantages, we decided to go with drip irrigation for everything, including all the sodded areas as well. Bill and Jeff worked hand-in-hand every step of the way to ensure we got the absolute best components for the job.

JOHN AND JANE MCGEHEE
HOMEOWNERS

RESULTS:

Effective Rainwater Irrigation

With the new Rain Bird system, the homeowners can irrigate their entire property using water from their rainwater collection tank, even during the hottest months. The dripline prevents runoff and drainage issues, ensuring that every drop of collected rainwater goes towards nourishing the landscape of their beautiful Texas oasis.

