



Technology, Exploration and Career Center West (TECC-W), Lewisville, TX

TECC-W Installs Smart Rain Bird® Technology, Paving the Way for 40 More Properties Across the School District

TECC-W is a Career and Technical Education campus designed to provide career training for high school students across Texas. The modern 130,000 sq.ft. TECC-W campus will provide students with some of the most advanced technology offerings and college-articulated programs available in the state.

THE CHALLENGE

With over 40 irrigated properties, the irrigation maintenance, project management, drive time, and repair costs add up fast for Lewisville Independent School District (LISD). Over the years, hidden leaks have cost LISD tens of thousands of dollars in wasted water. Grounds Manager, Jeff St. Romain, knows that installing an intelligent system now for TECC-W, will quickly pay for itself in water and time savings down the line.

THE SOLUTION:

Work with the irrigation designer and landscape architect to integrate smart Rain Bird technology that is user-friendly, efficient, and allows for remote management. The system will also be fully scalable, so as to accommodate for future plans to upgrade irrigation systems at other properties in the district.



IQ Central Control

Core Products Used:

- [IQ Central Control](#)
- [Flow Sensors](#)
- [ESP-LXME Series Controllers](#)
- [1804-SAM-PRS-45 Spray Heads](#)

KEY OBJECTIVES

- ✓ **Water Savings**
- ✓ **Operational Efficiency**
- ✓ **Improved Diagnostics**
- ✓ **Reliability**



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APPROACH:

Tap into the Power of IQ Central Control

Not only will IQ Central Control provide one single, centralized system of management, but it will also allow the team full transparency into the status and health of the irrigation system with detailed reporting. IQ will immediately alert irrigation techs to issues and in the event of a broken line or head, IQ can automatically quarantine and shut down problem areas while continuing to irrigate non-affected areas.

Lean on Industry-leading ESP-LXME Controllers

The ESP-LXME is a highly versatile controller. It has a familiar, user-friendly interface that is easy for just about anyone to navigate. It also has advanced troubleshooting and networking capabilities should a specialist need to utilize them.



Discover the Difference with Flow Sensing

FS Series Flow Sensors will send precise flow data to the IQ Central Control system which will monitor for low or excess flow conditions caused by broken lines or heads. This will ultimately save water, plant material, and hours of maintenance and manpower for LISD.

Maximize Efficiency with SAM PRS

1804 SAM PRS-45 Spray Heads maintain constant outlet pressure, ensure consistent nozzle performance, eliminate wasted water from misting or fogging, and prevent low head drainage at the base of slopes. These spray heads will provide a significant water savings and increase distribution uniformity, allowing for shorter run times.

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RESULTS:

Exceeding Expectations

Since the installation of Rain Bird, TECC-W has reported an increased water savings at each Benchmark Report. Because the system has performed so well, 10 more campuses will be adopting the Rain Bird Central Control system in the coming months. **The goal is to bring 15-20 schools online every year, and eventually add Flow Manager to each controller as well.**

***BONUS:** By using Rain Bird, LISD will be able to convert existing conventionally wired systems instead of replacing them. This will provide even greater cost savings that can be rolled into the adoption of IQ for more properties. **“With Rain Bird, we could retrofit the irrigation systems at 15-20 schools per year rather than 1 or 2 with a competitor product,”** explains St. Romain.*

Full Control from Anywhere

Now, Romain and his team know exactly what’s scheduled and how the system is performing at all times. “I can turn things off, adjust schedules, move things around—right from my phone,” St. Romain says. **“I was on vacation recently and was notified that a sprinkler was getting some of the crowd wet at a school game. The principal called and I was immediately able to turn it off for them, even from out of town.”**

“ Before Rain Bird, we had one leak that cost us somewhere around \$32,000. **The Rain Bird system would have seen that and turned it off without human intervention in 5 minutes.** If you don’t have Central Control, monthly bills are where your leaks are revealed—and by then—it’s too late. You can easily spend \$10-\$20,000 on a leak... then you still have to find it! We drove one property for four days looking for a leak before we figured out where it was. Now with Rain Bird, there are no surprises and we don’t have three irrigation techs driving around all day.”

JEFF ST. ROMAIN

LEWISVILLE INDEPENDENT SCHOOL DISTRICT



1800 Series Spray Heads