



# Austin Shopping Center, Austin, Texas

## An Upgraded Booster Pump Meets Variable Flow Demands with Energy-Saving Performance

The property manager of a shopping center located in Austin, Texas, is looking to replace the irrigation system's existing booster pump. Each of the irrigation zones require different flow rates to irrigate shrubs and trees in parking lot medians, plantings near sidewalks, and a large turf area near the entrance of the center.

### THE CHALLENGE

A number of booster pumps have been installed in the past, but these pumps have lacked a variable frequency drive (VFD) to run at variable speeds. Instead, the pumps would constantly run at full speed regardless of flow demand, wasting energy and wearing out sooner than expected. The system needs a new pump that can provide the correct pressure to meet variable flow demand without running over capacity.

### THE SOLUTION:

The property manager has hired ECOSystems Landscape Services to install a new booster pump. Rather than building a pump station using parts from different manufacturers, ECOSystem's vice president Chris Mele is looking to Rain Bird®, the industry leader in smart irrigation solutions, for a prebuilt booster pump station that will be long-lasting and reliable.



CLP Series Pump Station

### Core Products Used:

- [CLP Series Pump Station](#)

### KEY OBJECTIVES

- ✓ Increase Efficiency
- ✓ Manage Variable Flow Demand
- ✓ Minimize Pressure Surges
- ✓ Maximize System Longevity



## Site Report: **Austin Shopping Center, Austin, Texas**

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### APPROACH:

#### Select High-Quality Equipment

The team has chosen to install Rain Bird's **CLP Series Pump Station**. By selecting a booster pump with a Variable Frequency Drive (VFD), this shopping center should be able to **save up to 20% more energy**. The CLP Series Pump Station will deliver the expected flow at the lowest suction/boost possible by gradually ramping the motor up to meet the actual flow and pressure demands. Compared to previous pumps, the CLP will be more efficient *and* it will last longer, due to reduced demand on the system.

#### Simplify System Installation

The CLP Series Pump Station also eliminates the hassle and uncertainty of building a pump station from scratch. The Rain Bird CLP Series Pump Station is a complete package that includes a pump, electrical junction box, and marine-grade aluminum locking enclosure. "We decided to use the Rain Bird CLP pump because all of the components were already assembled," said Chris. "We poured the concrete pad the day before and the next day the installation process took about four to six hours. The CLP was easy to install and the cost was comparable to the other options when you factored in the labor savings."

“ We were very pleased with how quickly we were able to get the CLP pump installed. It had all the required components in one unit, which made our job easier.

CHRIS MELE  
VICE PRESIDENT,  
ECOSYSTEMS LANDSCAPE SERVICES

### RESULTS:

#### Long-Lasting, Energy-Efficient Pump Operation

Thanks to the CLP's variable frequency drive, the pump station provides a slow ramp up that puts less stress on irrigation components and minimizes pressure surges across different irrigation zones with variable flow demand. The VFD only runs to produce the pressure needed for each zone, ensuring that the irrigation system functions at maximum efficiency. The shopping center can finally rest easy knowing that they will not need to replace their pump again for many years to come.