



Dongan Lake Sports Park, Chengdu, China

High-Profile Athletic Complex Installs Efficient Rain Bird® Irrigation System in Time for International Competition

Dongan Lake Sports Park is a 320,000-square-meter complex featuring a gymnasium, aquatic center, and 40,000 seat stadium—all suited to host large-scale international athletic competitions. Athletes and locals alike enjoy the park's many outdoor spaces, including extensive grassy areas, hundreds of trees, and a large lake.

THE CHALLENGE

This high-profile complex requires an exemplary irrigation system to maintain pristine landscaping across varied elevations. Extra care must be taken in order to not disturb park-goers or interfere with the site's natural beauty. To complicate matters, the park is very large (it would take 3-4 hours to walk), the water pump is located 7 meters below ground where there is no wireless signal, and time is limited. Everything must be completed in time to host the 31st World University Summer Games.

THE SOLUTION:

The team will need to move quickly to install an efficient Rain Bird® system that can be managed remotely from a single, central location. Weather sensors will need to be added to monitor conditions throughout the park. The goal will be to choose components that offer years of reliable performance yet blend seamlessly into the beautiful landscape.



ESP-LXD Series 2-Wire Decoder Controllers

Core Products Used:

- [ESP-LXD Series 2-Wire Decoder Controllers](#)
- [IQ Central Control](#)
- [FD-TURF Series 2-Wire Decoders](#)
- [I-200-PGA Solenoid Valves](#)
- [WSPROLTSH Weather Stations](#)
- [PRS-Dial Pressure Regulators](#)
- [3500 Series Rotors](#)
- [5000 Series Rotors](#)
- [1800 Series Spray Heads](#)

KEY OBJECTIVES

- ✓ **Irrigate the Large Complex Efficiently**
- ✓ **Enable Remote Management**
- ✓ **Preserve Area Aesthetics**
- ✓ **Meet Aggressive Installation Deadlines**



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APPROACH:

Install a Superior System

A range of durable components will be needed to meet the park's high standards and ensure proper irrigation. More than 70 PRS-Dial pressure regulators will reduce pressure spikes and water hammer, making the system's rotors work more efficiently. I-200-PGA solenoid valves—the toughest and most reliable valves in their class—will contribute to the park's impressive reputation without interfering with its aesthetic.

Withstand Weather & Water Pressure

Five WSPROLTSH Weather Stations will monitor conditions and pause irrigation when rain is detected. 1800-SAM-PRS Series Spray Heads will remain stable amid windy conditions and will perform well regardless of fluctuating water pressure around slopes. 5000 and 3500 Series Rotors will deliver wind-resistant droplets to keep the grass green while minimizing evaporation.

Enable Intelligent Control

ESP-LXD Series 2-Wire Decoder Controllers equipped with the IQ Central Control system will enable full remote management by an individual. Data and programming between the site's 21 controllers can be synchronized to save time on setup compared to programming them one at a time. A signal wire will connect the control system to the underground pump, which is beyond the reach of the system's satellite.



“ This project has brought us millions of yuan of profit...and as a landmark project in the western region, this project has brought us a good business reputation...we have brought more than 100 designers or contractors to visit this project.

MR. LI
PROJECT MANAGER, CHENGDU ZHUCHENG
CONSTRUCTION ENGINEERING CO. LTD

RESULTS:

Impressive Performance

Thanks to the team's quick action, the grounds at Dongan Lake Sports Park are looking great in time for the 31st World University Summer Games and any future events. Even in the midst of COVID-19 lockdowns, Rain Bird's online training has ensured that technicians are completely comfortable navigating the new system. Park officials are proud of their best-in-class irrigation system that saves water and simplifies management. The contractor was so impressed, in fact, that **they immediately hired Rain Bird for another project!**

