



CULVER BOULEVARD REALIGNMENT & URBAN STORMWATER PROJECT

Jensen Detention Reservoir

Culver City, California



JENSEN PRECAST STORMWATER SYSTEM KEEPS CULVER CITY ENVIRONMENTALLY COMPLIANT

The Culver Boulevard Realignment and Urban Stormwater Project has two main goals. The first is to resolve traffic flow patterns and pedestrian safety concerns due to a widening of the 405 Freeway through Culver City. The second is to address water quality issues in Ballona Creek, an 8.8 mile watershed that flows through Culver City before emptying into the Pacific Ocean by Santa Monica Bay.

Jensen Precast was tapped to help Culver City reach its second goal. The engineering team at Jensen Water Resources developed designs from Tetra Tech into a complete system to capture, treat, and retain up to 8 acre feet of stormwater runoff for reuse. The setup included two 10' diameter hydrodynamic separators, a 4' diameter packaged dry pit pump station, a 12' diameter rainwater harvesting pump package and housing, and a 573"W x 144"H x 650'L water storage gallery. Jensen facilities in California and Nevada built the products.

PROJECT OWNER

City of Culver City

CONTRACTOR

Ortiz Enterprises Inc

ENGINEER

Tetra Tech

PRODUCTS

Jensen Detention Reservoir, Jensen Deflective Separators, Jensen Packaged Pump Station, and Jensen Rain Water Harvesting Pump Package and Housing



CHALLENGES

Culver City is one of six municipalities designated to meet water quality targets set by the Ballona Creek Watershed Management Group (BCWMG) and the Los Angeles Regional Water Quality Control Board. To reach Total Maximum Daily Loads (TMDLs) for pollutants and Municipal Separate Storm Sewer System (MS4) permit requirements, the city needed a compliant stormwater system to capture urban runoff from 334 watershed acres for reuse. The infrastructure would need engineered to fit under a new park median along Culver Boulevard.

SOLUTIONS

"We provided a complete system for the stormwater needs of Culver City, working with the engineering firm Tetra Tech to ensure a compliant and lasting solution," says Jay DeVries, Jensen Precast Outside Sales Representative. "The contractor, Ortiz Enterprises, wanted a system that was easy to install to complete this large scale project faster. Our precast products enabled that to happen. Our facilities in California and Nevada worked as a team to manufacture and deliver more than 500 pieces for the project, one of our largest stormwater jobs. This project covers Culver City's obligations for both the Ballona Watershed and the MS4 permit."

RESULTS

- MS4 compliance is met by incorporating structural stormwater Best Management Practices.
- BCWMG obligations are met by capturing, treating, and retaining stormwater runoff to reduce TMDLs.
- The new half mile Culver Boulevard median resolves traffic issues and safety concerns while gaining reuse for irrigation of the median landscape.

"Jensen Precast is building a strong reputation in the California stormwater system market. We decided to go with their products and services to accelerate the installation along Culver Boulevard, and they came through for us. Jensen has a good team in place and they're great to work with on projects of this size and scope."

Jeff McDermott, Project Manager, Ortiz Enterprises Inc.