Oceanside 511 Pump Station

**The design**
- Three 1560 GPM Vertical Turbine Pumps
- Two functional & one standby
- 2544 LF of 18-in Ductile Iron Pipe
- Connects pump station to point of connection
- Canopy structure over pump station

**Project Exhibits**

**The Team**
From Left to Right:
- Peter Cagiano - Construction Engineer
- Jasmin Kuzak - Water Engineer
- Hanadi Jarar - Water Engineer
- James Valdez (Project Manager) - Traffic, C.M.
- Jake Brown - Construction Engineer
- Abdurahman Harami - Geotechnical Engineer

**Project Cost Breakdown**
- Predicted Project Cost: $3,307,395
- Sitework: $981,400
- Environmental Erosion Control: $27,000
- Mechanical Materials: $879,700
- Electrical: $490,000
- Labor Costs: 30%
- Construction Markup: 10%
- Contingency: 10%
- Insurance: 1.25%

**Traffic Control Map**

**Hydraulics**

**Vicinity Map**

**Site Map**