



INDUSTRIAL DIVISION

Firms Role: General Contractor

Location: Portland, Oregon

Owner:
City of Portland

Designer:
HDR Engineering

Start Date: February 2004

Completion Date: September 2006

Contract Delivery Method: Design/Bid/Build

Description of Work:

This project was the first of its kind in Oregon. The City of Portland imposed a rigorous prequalification process that yielded only two qualified bidders. According to project constraints, JWF had a limited dry weather period from July 7th to September 14th to complete the project and we successfully completed the work on schedule. The scope of the work involved modifications to an existing outfall and siphon structure between the Columbia Slough Inlet Structure at the Columbia Boulevard Wastewater Treatment Plant (CBWTP) and the Oregon Slough Siphon Outlet Structure at the north side of the Oregon Slough. The work specifically included the following major elements: installation of a sheet pile excavation support system at access portals, installation of new stainless steel fabricated slide gates, insertion of approximately 6,200 feet of 87.5-inch O.D. steel liner (5/16-inch steel with $\frac{3}{4}$ -inch mortar lining) in the existing 102-inch diameter semi-elliptical cast-in-place outfall pipeline, grouting of annular space between 87.5-inch steel liner and 102-inch outfall pipeline with cellular grout, and installation of additional reinforced concrete and structural members in four existing siphon inlet structures.

