

LABIEUX ROAD BOOSTER STATION CITY OF NANAIMO

Project Details



Completed Labieux Road Booster Station

The pump station required a third crossing of Highway 19A. A new 400 mm dia. ductile iron pipe was installed across Highway 19A that connected the existing 750 mm dia. steel main near the railway tracks on the suction side of the pump station and the existing 400 mm dia. asbestos cement main south of Rock City Road. The existing 400 mm dia. asbestos cement main was capped off to the north. The existing 750 mm dia. steel main was separated at the station with two connections (suction and discharge).



*Suction and discharge headers
in the south valve chamber*

- The Labieux Road Booster Station was constructed adjacent to the Rock City Road and Highway 19A intersection. The station was built with four 60 HP pumps, with a combined capacity of 656 lps (8,650 igpm), however the station can be expanded to six pumps with an ultimate capacity of 984 lps (13,000 igpm). There are two 400 mm dia. control valves, which allow gravity flow through the station at times when pumping is not required. For protection against high pressures, in the event of a pump control failure, there are two 300 mm dia. pressure relief valves set at 105 psi (HGL 189 m).



4 - 60 HP pumps and Motor Control Centre

The discharge piping of the station is connected to the 750 mm dia steel main section from Labieux Road and also to the existing 600 mm dia. steel main near the E&N Railway Tracks. To strengthen and maintain flow to the distribution system, a new 300 mm dia. ductile iron watermain was installed from the discharge side of the pump station to the 250 mm dia. PVC main at the intersection of Labieux Road and Bowen Road.