

SOUTH FORK WATER SUPPLY MAIN DUPLICATION, STAGE VI GREATER NANAIMO WATER DISTRICT

The work involved the installation of approximately 5,100 metres of owner supplied 1200 mm diameter lap welded steel supply main and the supply and installation of miscellaneous piping, valves, fittings and appurtenances. This completed full duplication of the existing 750 mm diameter steel supply main with a 1200 mm diameter parallel main over a total length of 25 km from South Fork Dam to the College Park reservoirs, providing sufficient additional capacity to supply the City of Nanaimo until 2040.



Excavators work together to lower in one of the 45 degree bends. This section was at the highest point on the supply main alignment and consequently the trench was excavated deeper than normal to optimize pipe capacity for gravity flow.



To prevent rapid migration of subsurface trench water and resulting erosion, concrete bag trench dams were constructed on grades over 10 percent.