

MAIN STREET BRIDGE PROJECT

City of Winnipeg

Winnipeg, Manitoba



Project Description

In 1995, KGS Group was retained in association with DS-Lea Consultants to carry out the detailed design of the new Main Street Bridge project. The project included demolition of the existing bridge and construction a new northbound and southbound spans. The project also included road realignments and improvements as well as relocation of affected services.

KGS Group was responsible for detailed design of the substructure as well as all electrical and mechanical services. The design of the abutments required extensive measures to stabilize the riverbanks and accommodate poor foundation conditions.

KGS Group was also responsible for velocity and flow monitoring during construction. Long-term requirements included determination of flood levels, back water impacts and approvals, assessment of velocities and riprap requirements for the pier and abutment, hydraulic loads on piers including unbalanced hydraulic and ice loads. These assessments were carried out in accordance with AASHTO requirements.