

Location

Port Coquitlam, BC

Client

City of Port Coquitlam

Project Type

Bridge

Services

- Owner's Engineer
- Preparation of RFP Documents & Reference Concept
- Technical Design Review
- Construction Management

Duration

April 2007 – December 2009

Construction Cost

TBD

Project Description

The Coast Meridian Overpass Project comprises design and construction of a new overpass connecting Coast Meridian Road and Lougheed Highway to the north with Kingsway Avenue and Broadway Street to the south, thereby providing an essential connection between north and south Port Coquitlam via a grade separated crossing of 60 tracks in the Canadian Pacific rail yard. The elevated structure is a multi-span bridge, approximately 580 meters in length, which includes four traffic lanes with a median barrier, bicycle lanes and a sidewalk. The project also includes road and intersection improvements along portions of Coast Meridian Road, Lougheed Highway, Kingsway Avenue, Broadway Street, and McLean Avenue.



HMM Role



HMM has been retained by the City of Port Coquitlam as the Owner's Engineer on this design-build project. HMM provided assistance to the City in the preparation of a reference concept, a detailed cost estimate and the Request for Proposal (RFP) documents. HMM also assisted in the selection of a design-build contractor, reviewing technical design submissions and managing the construction of the project.

In developing of the reference concept, HMM prepared a preliminary design for various components of the project including a

preliminary structural design of the overpass and the erection sequence. HMM also facilitated the coordination of preliminary civil, electrical, environmental and geotechnical design for the reference concept.

Project Highlights

- ◆ Multi-span structure over 60 tracks in the Canadian Pacific rail yard and 4 lanes of traffic on Lougheed Highway
- ◆ A grade-separated interchange system that connects Lougheed Highway traffic with Coast Meridian Road as well as the overpass
- ◆ Widening of Coast Meridian Road to four travel lanes with median and bicycle lanes on either side north of the overpass
- ◆ Lightweight fill approach for the north embankment
- ◆ Acoustic fence between roadway and private residences along Coast Meridian Road
- ◆ Signal synchronization between traffic lights at various intersections
- ◆ Drainage improvements
- ◆ Utility relocations
- ◆ Property access relocation
- ◆ Signage improvements