

Craigflower Bridge

View Royal and District of Saanich, British Columbia, Canada



The old Craigflower wood trestle bridge was 80 years old and at the end of its service-life. Piles were rotting and some structural members had cracked showing signs of excessive loading fatigue. The original structure was designed for truck weights that were half the weight of today's vehicles. The narrow sidewalks did not accommodate for today's pedestrian travel including wheelchair mobility for passing a person with a baby stroller or a cyclist.

The new 3-lane bridge was designed to include a service-life of 75 years, today's vehicle and pedestrian demands and regulations, as well as to remain usable in the event following a major earthquake.

The bridge utilized epoxy-coated reinforcing steel (ECR rebar) in both the deck structure, and in the upgraded two-metre sidewalks on both sides of the bridge. These bridge sidewalks were increased in size to accommodate bike lanes, and fishing on the bridge. Epoxy-coated reinforcing steel (ECR rebar) was also utilized in the storm-water treatment area and road approaches.

Team

Owner:

Town of View Royal and District of Saanich

Designer:

Associated Engineering – Civil and HCMA

Engineer:

Herold Engineering

General Contractor:

Ruskin

Design Criteria:

- Provide 75-year service life.
- Provide earthquake-resistant structure.
- Enhance the structure with bike lanes and larger sidewalks.

Total Project Cost: \$12 million

Total Size:

LENGTH: 394 ft (120m)

WIDTH: 66ft (20m)

Photography:

craigflowerbridge.com