

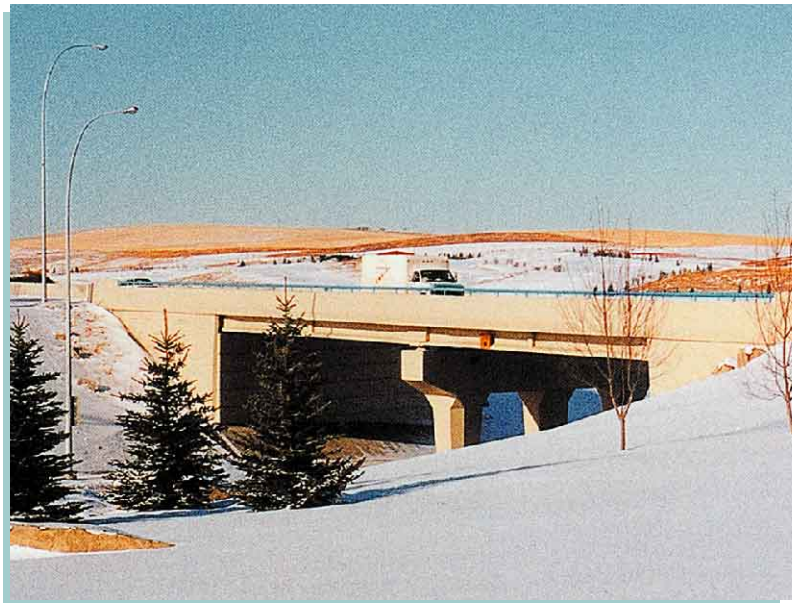
## Reinforcement of structures under a severe corrosive environment.

### Beddington Trail Bridge (Canada)

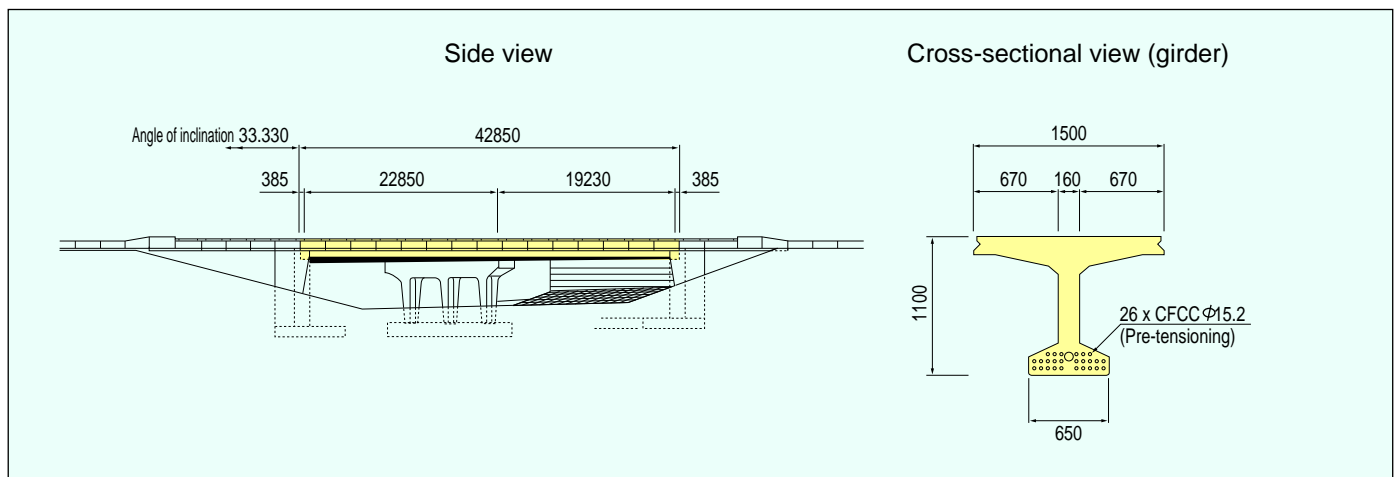
In the winter season of Canada, a large amount of de-icing salts are sprayed to keep roads safe. However, de-icing salts are particularly problematic because they easily penetrate concrete bridge decks and corrode the internal steel reinforcements. To reduce the frequency and cost of maintenance, an experimental program was conducted under the leadership of Prof. Rizkalla, University of Manitoba\*, to study the use of CFRP as prestressing reinforcement for concrete highway bridge. The Beddington bridge is a two-span skew bridge made continuous for live road. CFCC was used to pre-tension four girders.

\*) Prof. Rizkalla now teaches at North Carolina State University

Client	Calgary (Alberta, Canada)
Location	Calgary
Dimension	Two-span PC bridge Length 42.85m    Width 22.7m
Material	CFCC 1 x 7 $\phi$ 15.2
Application	Pre-tension the main girders
Completed	November 1993



### Drawing



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