

Saskatchewan Highways & Transportation Concrete Girder Repair Pre-tensioned Cable Reinforcing

STRUCTURE: Hwy #2 over Hwy #1 Bridge Overpass
LOCATION: Moose Jaw, SK
PROJECT DATE: October 2004
JOB DURATION: 10 Working Days
CLIENT: Sask. Highways & Transportation
CONTACT: Kelvin DeGrow
CONTRACTOR: Vector Construction Ltd.
Saskatoon Branch



PROJECT DESCRIPTION:

Problem: Bridge girder was damaged from being impacted by an over height load and breaking several of the pre-stressed structural cables in the girder.

Area: Approximately 15' length of damaged girder mid-span between the supporting piers.

Repair Procedure:

- i) Remove all cracked and broken concrete.
- ii) Expose all pre-stressed cables to observe any physical damage to the cables.
- iii) Install Grabb-It couplers as required to join the cables properly.
- iv) Tension the couplers to the required tension using the proper tensioning guage – approximate tension requirement was 27 KIPS.
- v) Form and repair the beam to its original dimension using Thoroc LA40.



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