

Executive Summary

The Culvert to Bridge Emergency Replacement Project involved the design and tender of a modular short span bridge to replace the 43 200 mm diameter multi-plate washed-out culvert in accordance with applicable Ministry Manuals and Policies. Dillon was responsible for project delivery, overall project management, bridge design, preparation of the detailed construction drawings and tender package in the design phase; and construction supervision and construction administration of the contract in the construction phase.

The project was delivered in two phases:

- design phase: from **July 22, 2016** to **August 12, 2016**
- on-site construction supervision and construction administration phase: from **September 13, 2016** to **October 20, 2016**.

The most critical issue driving this project was the need to restore normalcy to the farmers and residents in the Carrot River, Saskatchewan area in the shortest possible time.

During the design phase, Dillon provided the following:

- Overall project management and coordination
- Project QA/QC and risk management
- Bridge hydraulic surveys
- Hydrotechnical analysis
- Bridge site geotechnical evaluations and recommendations
- Preliminary and final bridge designs
- Preparation of detailed bridge construction drawings and tender package.

In the construction phase Dillon provided the following:

- construction monitoring with commensurate reporting and documentation
- confirmed the adequacy of pile resistances for design loading
- document and report safety infractions
- issue approval and any necessary rejection of work

The project was delivered at a high standard of quality ahead of schedule and within the budget allocated with a quick restoration of improved, safe, transportation access for the community.

