

Aluminized Steel Type 2 HEL-COR®

Stormwater Detention System

OWNER

City of Regina

CONSULTANTS

Cochrane - SNC - Lavalin Inc.

CONTRACTOR

NIS Contractors Limited



The Problem

The City of Regina has had long term drainage problems where Winnipeg Street dips under the CPR overpass. Frequent flooding was a common complaint. Cochrane-SNC-Lavalin were retained to review the situation.

Various alternatives were reviewed and analyzed utilizing the OTTSW/MM computer model to determine the most cost effective solution. Analysis of the system determined that much of the flooding in the underpass was actually backup from the existing downstream trunk sewer. Alternatives reviewed included various combinations of detention and pumping.

The Solution

The recommended scheme involved disconnecting the underpass from the existing storm sewer, pumping flows

from the underpass into an underground large diameter detention pipe, then slowly releasing the water by gravity into the trunk through a restricted outlet.

Detention in the "super pipe" attenuated peak flows prior to release into the overworked trunk sewer.

Armtec's Hel-Cor pipe is ideally suited to the design of detention systems because its versatility in sizing, shapes and fittings allows the designer to detail almost any configuration conceivable. Manholes, sumps, elbows, tees and the like, are factory made to shorten and simplify field installation. Cochrane-SNC-Lavalin specified Aluminized Type 2 coating for added durability.

For more information on this product of its applications, please contact the Armtec office near you.

CASE HISTORY

Convenient, Cost Effective Storm Water Detention System



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