PRIMA PIPE SOLUTIONS LTD

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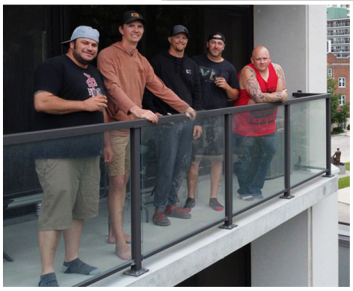
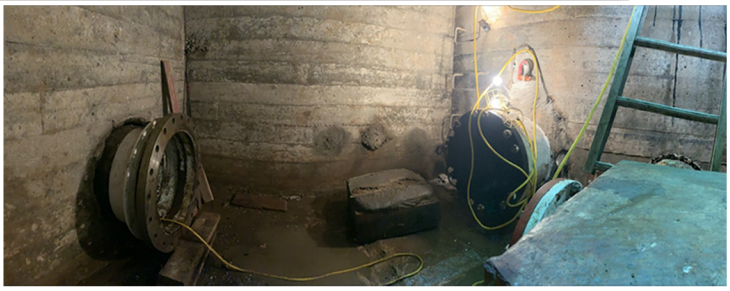
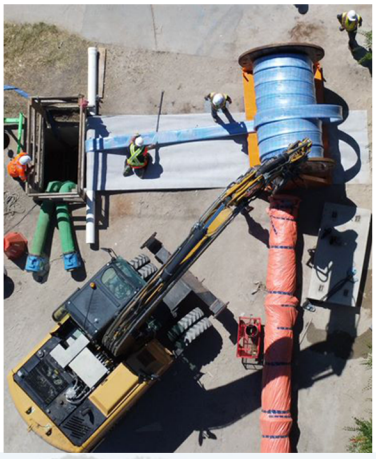
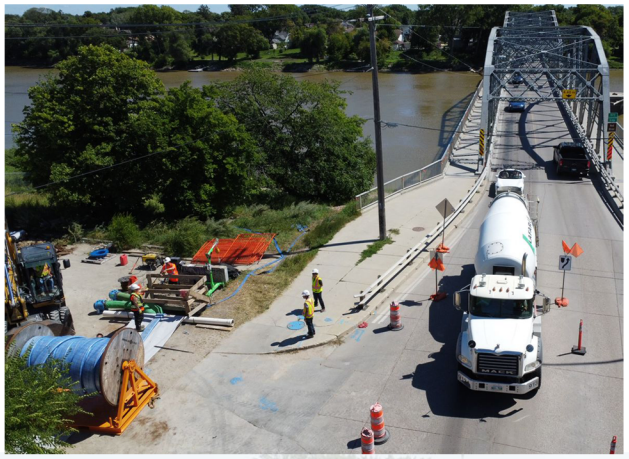
City of Winnipeg MB Kildonan River Crossing Rehabilitation





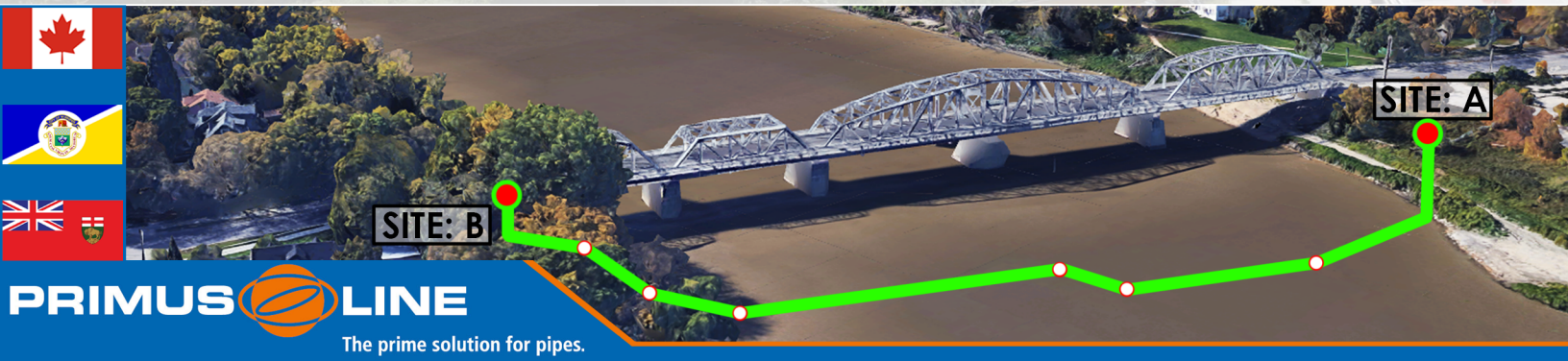
Technical Details:

Project Requirements: Rehabilitation of existing potable water main river crossing with a flexible reinforced (FFRP) liner.
Project Length: 227 meters of river crossing pipe.
Host Pipe: DN 600 (24") Steel Feeder Main With Flanged and Victaulic Joints.
Material Used: Primus Line MD - 500 / 20" - W - Prefolded Kevlar spoolable Pipe.
Connectors Used: Medium Pressure DN 600 x DN 500 - 150 ANSI Flange.

Multiple Bends: 45, 45, 12, 6, 6 degree underground bends.
Execution Date: August, 2022
Installation Duration: 2 days liner and connector installation. 8 days, start to finish of rehab.
Advantages of Prima Pipe: Prima's technical ability allowed for the installation within a 50 foot vertical man hole at Site "A", and a 16 foot vertical man hole at Site "B". Liner solution meant no directional drilling required. Increased operating pressure with no environmental impact. Substantial cost savings!

The Need:

A compromised 24" host potable water main that has been shut in for a number of years due to its failed status other relining methods were not suitable for this application. To meet the requirements of operating pressures and the ability to slipline the entire section, Primuslines 20" Spoolable pipe was the right fit for the job. A cost effective method that allowed the line to be put back into service and no longer be challenged by a 55 year old system.



PRIMUS LINE
The prime solution for pipes.