

PROJECT:

Lining of water mains for the ZIBI project, the first sustainable community in Canada



CHALLENGE

Lining of 770 m of 400 mm-diameter pipes for the ZIBI housing project. The rehabilitated pipes will be used to bring hot water from the Kruger plant (located approximately 400 m northeast of the complex) to heat the buildings of the ZIBI real estate complex (located on either side of the Outaouais River). The cooled water will then be returned to Kruger and reused in their process. As the pipe crosses under the entrance to the Portage Bridge and into a nearby park owned by the CCN (*the Commission de la Capitale nationale*), conventional replacement would have caused disruptions to the bike path traffic and park users. The pipe then continues towards the Kruger plant, parallel to Laurier Street.



BACKGROUND

SANEXEN was invited by the consortium, led by Dream and Theia Partners, developing the *Région de la Capitale nationale's* new borderless ZIBI neighbourhood. ZIBI is a real estate project located on 34 acres overlooking the Outaouais River that will be home to more than 5,000 residents and provide over 6,000 jobs. ZIBI is transforming a vast area into vibrant commercial spaces, with waterfront retail and lively plazas, one of the most sustainable neighbourhoods in Canada. As part of the development, two 400 mm-diameter pipes needed to be renewed as they were severely deteriorated.

WATER MAIN

Material:	Cast iron and asbestos cement
Diameter:	400 mm
Length:	770 m
Project Date:	Spring 2021
Characteristics:	Pipe near a major road and under a boulevard, passing through a parking lot and wooded areas

SOLUTION DEVELOPED

The solution developed by SANEXEN consists in the trenchless lining of deteriorated pipes with our ALTRA2 product, eliminating the need to replace the pipe, which would require extensive digging and complete removal, an option the ZIBI consortium wanted to avoid at all costs. The pipes have now been completely renewed and back in service for another 50+ years.



CERTIFICATIONS



Certified to
NSF/ANSI 61



BNQ 3660-950
N° 563



CONTACT



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