



Abstract No 15

Structural GRP Rehabilitation of 62" x 40" Arch Storm Culvert at Ross Bay Cemetery, Victoria BC

The City of Victoria has a network of several kilometers of Brick Construction Arch Profile Storm Culverts. Some are reported to be over 100 years old and varying states of disrepair. One such culvert is located underneath the Ross Bay Cemetery between Fairfield Road and Dallas run before discharging into the Ocean. The Cemetery was established in 1873 and is home to the last resting place of some notable internments, such as British Columbia Premiers, Statement and Group of Seven Artist Emily Carr. Following man entry and CCTV inspection of the culvert, it was determined that the bricks and mortar were showing signs of deterioration and the City sought a permanent solution to renovate the sewer. Also noted was the fact that the sewer has several bends/curves and 4 drop structures. This coupled with the obvious difficult access, due to densely populated grave sites, led to difficult choice for the specification of rehabilitation technologies.

AECOM Engineering were employed to undertake an extensive material and technology selection process that included the evaluation of Cured in Place Technologies, Spray Applied Technologies, Spiral Wound Technologies and Structural GRP Lining Technologies. It was determined that the later, GRP Lining was the most versatile and was specified during the tender process.

This paper discusses the material evaluation process, tendering, design, manufacturing process and construction of this most challenging project.

Presenters

Andy Sherwin

Technical Sales Manager (North America)

Channeline International

P.O. Box 8091
Dubai Investment Park, PH-2
Dubai, U.A.E
Tel : +971 4 884 8383 Fax : +971 4 884 8384
Email: sales@apsdubai.com



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