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this way**

The world needs concrete solutions

Project: Vancouver North Arm Interceptor

Location: Vancouver, BC

Installed by: BEL Pacific Contracting

Designed by: Omni Engineering

Documented by: Matthew deMedeiros, EIT



The North Arm Interceptor Project involved the relocation of an existing Metro Vancouver owned sanitary sewer line located at 1041 SW Marine Drive. The new line was to be 1350mm diameter concrete pipe with a plastic lining to negate the potential for corrosion due to hydrogen sulfide growth. Construction began in late July and was completed in September 2014.

The project, although only approximately 72 metres in length, required careful design and planning prior to manufacturing the product. The project posed a significant challenge since the sanitary line was to remain in full operation throughout the entire construction process. Omni Engineering included two bypasses to account for this, one upstream and one downstream, in their design.

Another challenge was that the two tie-in points between the existing line and the new line had to align perfectly. Ocean Pipe managed this challenge by drafting detailed CAD drawings showing how each individual piece would be manufactured and would fit into the larger scope of the project. The job consisted of twenty-one specialty/fittings pieces and thirteen standard lengths of straight pipe. A total of twelve single mitre bends, five manhole tees, two steel wyes off concrete pipe which were used to bypass the existing line into the new one, and four custom-length pieces were all created for this sanitary line.



Ocean Pipe chose to line the pipe using AGRU 2mm high density polyethylene liner. The AGRU liner was chosen for two reasons: the HDPE was stiffer than other products on the market which made it easier to work with during manufacturing, and the v-shaped anchor system, a patented AGRU system known as Sure-Grip, allowed for a more uniform embedment within the concrete pipe than other anchor systems.





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