

HOBAS® Through the Best Snow in the World

Everyone in the US is familiar with the popular ski destination Utah. Over 20 million people visit the resorts to enjoy “the best snow in the world” during ski season. But not only tourism is on the rise; Utah has been experiencing significant growth recently and this trend is expected to continue well into the future. As a result, local municipalities are taking a closer look at their current infrastructure.

The South Valley Sewer District (SVSD), which encompasses the southern third of Salt Lake County, is investing roughly 1.9 million Euros in its infrastructure. District municipalities reportedly have more than 4,400 building lots that are not yet connected to the existing system. To solve the problem, relief lines and new facilities including a wastewater treatment plant are being designed and constructed. Since March 2002, SVSD officials have been seeking approval for a treatment plant located in Riverton that will enable them to keep pace with the growth in southwest Salt Lake County.

To transport the sewage to the new facility, additional piping networks are necessary. One



Year of Construction

2008

Duration of Construction

1 year

Length of Pipe

1,219 m

Pressure Class

PN 1

Stiffness Class

SN 5000

Diameter

DN 1200, DN 2000

Installation Method

open cut, tunneling

Application

SewerLine®, ShaftLine®

Client

South Valley Sewer District

Contractor

Allied Construction and

Development,

Inc. of Logan

Advantages

**flexible installation methods, corrosion resistant,
professional project handling by HOBAS**

of the most recent projects was the Jordan River Outfall Sewer. The primary purpose for this new line was to mitigate the capacity problems with the current DN 1200 line that has been in operation since the early 1980's. The project included approximately 1.2 km of HOBAS CC-GRP Pipe DN 1200 and 16 DN 2000 manholes.

The installation was mostly direct bury with several tunneling installations of HOBAS Pipes through steel casings. On both occasions the pipe installed well and had no problems with visible deflection and joint leakage,” said Bart LaMont, project manager, Allied Construction and Development.

The direct bury portion of the project ranged from 60 cm to 8 m in depth and was installed primarily in sandy material. The embedment specified and utilized was 2.5 cm minus stone with filter fabric to prevent migration of native

soil into the embedment zone. The design engineer at Bowen, Collins & Associates was pleased to receive help from the HOBAS engineering staff to specify the appropriate pipe stiffness rating based on depth and soil conditions. They were also provided with the appropriate pipe zone backfill specification requirements for HOBAS Pipe. During plant tours well before HOBAS Pipe USA was chosen for the project, the HOBAS facility engineers gave detailed explanations on flexible conduit theory, manufacturing capabilities and quality control as well as any concerns or questions related to specific installation.

The Jordan River project required additional planning because of the extensive groundwater that was present. Apart from this, it lies in an area that experienced some H₂S derogation of the existing concrete pipe and thus chose HOBAS for its H₂S resistance and water tightness.

The pipe used in this project had an SN of 5000, which is standard for direct bury and tunneling applications. This stiffness allows for routine burying methods with predictable performance that can handle deep covers. HOBAS FWC Couplings were utilized for the Jordan River project installation. The couplings are factory assembled to one end of each pipe for ease of use in the field. The sealing design includes both lip and compression elements so the joint is suitable for both non-pressure and pressure service.

“Allied Construction’s experience with the installation of HOBAS Pipe, on both occasions, was very positive from the pre-sales point through the shipping, installation and technical support areas. In our view, HOBAS Pipe has some very positive advantages over many of the other pipes of similar types,” said LaMont.

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