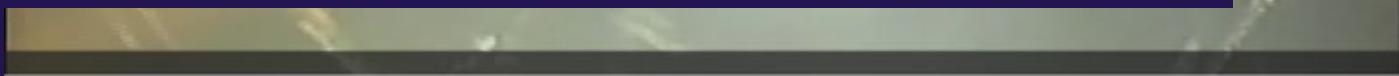




Modbury sewer rehabilitation scheme

Early engagement with local community to reduce impact



Overview of Works

Modbury is a small town in the Ivybridge, Devon. The town's commerce relies on day-to-day business gained from passing traffic and HGVs.

Following a number of blockages and pollution events, a SWW investigation concluded that the construction of the main sewer running down the main A379, was likely to let silt / soil in through the brickwork. This was causing blockages and running the risk of undermining the road structure. A Ground Penetrating Radar survey confirmed a loss of strata around the pipework.

Following planning work from a previous contractor, it was predicted the excavation and replace programme would take up to 12 weeks and cost around £1.5m. This programme included closing the road for three months, which wasn't feasible for the local community.

Approach

Our technical team reviewed the surveys, indicating the pipe was a dry wall brick culvert, with diameters ranging from 360mm - 480mm. Most lengths had a variation in diameter of around 65mm.

Ipsum held a meeting with Reline Europe to discuss using the Alphaliner XE, a revolutionary UV material that expands by up to 20% of its diameter when installed. We decided that the material was perfect for the works and Ipsum proceeded to revise the scope. As the manholes were too tight to install from minimal civils works were still required. The new scope had approx. 350m of culvert to be relined, inclusive of around 150m of severely corroded cast iron pipe under properties.

Community engagement

Ipsum attended a village hall meeting where the new scope of works were announced. Ipsum was the specialist lining contractor, only shutting the main road for four weeks, including resurfacing the carriageway. We also highlighted CO₂ savings, as well as the cost savings, which amounted to a staggering 62% of the original budget.

Outcome & Benefits

Ipsum began the Modbury sewer rehabilitation scheme, installing 500m of Alphaliner XE with a 100 year design life. UV Top hats were installed on incoming lateral connections. The works were completed without issue and the A379 was opened three days ahead of schedule.

The Parish Council passed on its gratitude that the works and the complicated traffic management operation ran smoothly. We were also thanked for using local pubs/hotels accommodation and meals, investing in the local economy.



Top hats installed at laterals

Key Stats

4 week programme
(reduced from 12 weeks)

62% reduction in original
budget

3 days cut from programme
during works

