



## SPECIALIST SKILLS

**Project:**  
St Fintans School

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**Location:**  
Dublin

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**Barhale Business Unit:**  
Tunnelling

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**Client:**  
Dublin City Council

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**Value:**  
£22K

Many years of development and expansion of Dublin's infrastructure created problems with the St Fintons Sewer in the Sutton region of the City such that excessive flooding was a regular event in the recreation areas of St Fintons High school where a section of tunnel roof had developed a leak.

Due to the severe operational requirements of the local pumping stations only a limited window of access was available to undertake repairs which had to be undertaken over night when flows were at their minimum. Barhale's Tunneline system was proposed as the solution to strengthen the weakened section of tunnel and also create a new structural access for future maintenance works.

A proposal for an integrated transition shutter was designed to accommodate the change in diameter of the horizontal tunnels and a vertical access was incorporated into the final proposal, once approved the shutter was fabricated from pressed steel into manageable units that could be installed in modular form from the surface into the sewer, the shutter was braced against the host tunnel and concrete pumped into place to complete the works in 3 nights.