

ENGINEERING THAT WORKS FOR YOU

Main Drainage- Brunton Park

Contract	Value	Location
Nov 2014—July 2016	£5.5m	Gosforth

Client

Northumbrian Water /
Environment Agency

Engineer:

Mott Macdonald
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Project Description:

Northumbrian Water have invested in a flood alleviation system at Brunton Park, Gosforth to protect over 100 homes identified as being at risk of flooding from both the Ouseburn from the sewer and surface water drainage networks.

Seymour were commissioned to carry out these works and they included;

Upsizing the water network in several areas of Brunton Park. This was accomplished by many different methods, dig down, open trench, tunnelling to name a few as well as the abandonment of existing sewers and the installation of submersible sewage pumps and pipes.

A temporary bridge was positioned over the Ouse Burn for access to the Golf Course area. With the bridge in place the Ouse Burn watercourse diversion could be achieved creating a SUDs channel in order to allow the upgraded surface water system to discharge during storm events, work including bulk earthworks, gabion walls, reinstatement and landscaping in the Newcastle City Golf Course.

Additional bunding and flood wall works put in place to provide increased protection to properties at risk of flooding. Construction of reinforced concrete flood walls with facing brickwork, access footpath points and fence panels. Together with garden drainage evacuation pipes at each garden crossed by the flood wall, reinstatement to gardens affected.

A 9m diameter storm attenuation tank 12m deep was created with associated pipework, metalwork and reinforced concrete valve chamber and associated M&E works.

With resident's welfare in mind, the speed limit for all construction traffic was 15mph. Bespoke signage and all diversions planned to help residents sustain minimal disruption while the works progressed. Residents were invited to attend customer Event drop in sessions to discuss work completed and to date also planned work completion.

Great care and interest was shown with the Environment Agency to maintain the area and its wild life. New and improved measures put in place to encourage new wild life to settle there.

All work was completed with the existing sewerage system in operation. Phase 2 to start in the spring 2016.

