

Otter St Mary - Flood Alleviation Scheme

The Otter St Mary Flood Alleviation Scheme had issues with flooding due to the main culvert running through the town not having the capacity to cope with storm conditions. The culvert was very shallow and the existing capacity needed to be trebled. The size of the culvert also needed to be enlarged to meet the modern highway loading requirements.

This photo shows the current condition of the culvert, its original internal dimensions are only 600mm high at the crown by 1200mm wide. It can be seen that the working conditions are extremely tight and these conditions are something that Matt Durbin Associates specialise in.



The photo on the left shows one of the first stages of the works whereby MDA had to lower the invert of the culvert by 800mm to gain the required capacity. The spoil was removed to a licensed tip using a mini crane accessing the culvert from a purpose built access shaft shown on the right.



The photos below show each of the final stages of work (top left) the annulus of the liner being trimmed for the designed thickness of grout. The (top right) photo shows the connections being installed immediately after the next section of liner was installed. The bottom photos show the finished product.



This project showed that by combining proven techniques with pioneering developments in design and technology, the Client can have the works delivered with:

- Increased strength
- Increased flow capacity
- Least disruption
- Least cost



This was another excellent project for MDA that was completed without accident or incident.

