CONCRETE CANVAS®

CHANNEL LINING

Project Info

- 08 / 08 / 18
- CC8™ Bulk Rolls
- 765m²
- Transverse layers
- Coker Wood, Yeovil, UK
- VS Rail on behalf of Osbornes
- CC8™ used to provide erosion control and maintain capacity of open drainage channel to prevent flooding of highway crossing.

Completed CC lined drainage channel in Yeovil, UK

In August 2018, Concrete Canvas® (CC) GCCM* was used to provide erosion control and maintain capacity of an open crest drainage channel at Coker Wood, Yeovil, to prevent flooding of the highway crossing.

Poured concrete had been considered for the project, but was ruled out as it would have been difficult to install given the restricted access for plant in some locations on site.

The works were carried out by VS Rail on behalf of Osbornes for Network Rail's Wessex Route, with consultancy provided by Arcadis.

The installation was completed during the Summer of 2018, with perfect weather conditions throughout the project, which allowed for easy, uninterrupted installation on the soil- and clay-based substrate. Prior to installation of the CC material, vegetation was removed from the substrate and any large voids created during root removal were filled with substrate from elsewhere on site. A ditching bucket was then used to excavate the channel to the required profile before anchor trenches were dug by hand.

*Geosynthetic Cementitious Composite Mat

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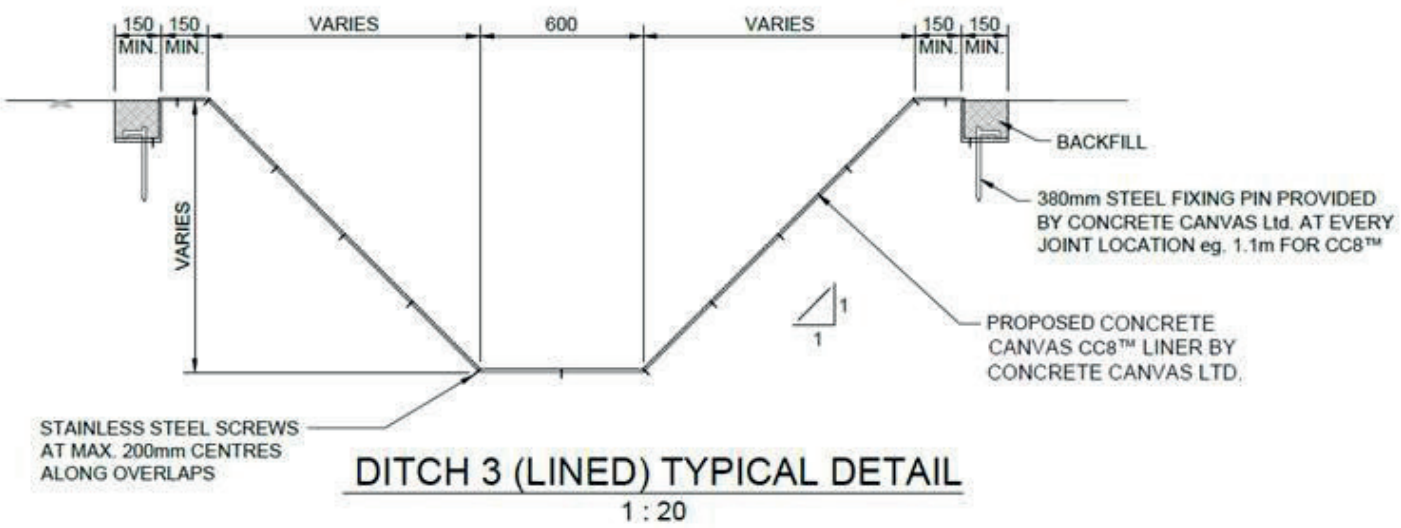

Cross section drawing for channel design

Anchor trenches dug by hand

CC material cut to required length by batching on site

Batched material rolled and moved by hand

CC laid transversely and fixed in anchor trenches using ground pegs

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CC overlaps jointed with screws and sealant

CC installed at headwall termination section

Shotfired nails were used to secure CC to concrete headwall

CC termination at end of channel prior to backfilling

Edge of CC material covered with plastic sheeting overnight

Completed junction section of CC installation

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Section of completed CC installation

The CC was delivered to site in bulk rolls of CC8™, and deployed from a spreader beam hung from an excavator. The material was batched to required lengths and laid transversely, screwed and sealed at the joints, and pinned at each overlap. Edges of material were then secured using ground pegs or shot fired into the headwall structure.

At the end of each day, the CC was hydrated using a water tank and hose system to allow the material to begin setting overnight, with the leading edge protected by plastic sheeting until the next layer was ready to install on top.

The project was completed in 6 weeks, with 765m^2 of CC8™ installed in stages to accommodate other civils works on site. This is the 4th CC installation for Osborne, Arcadis and NR Wessex this year, with more projects planned to be carried out for the scheme over the next 6 months.

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