

COMPANY CASE STUDY

Jackdaw Scar, Penrith



AT A GLANCE

Client: Cumbria County Council

Location: Kings Meaburn, Penrith

Value: £403,351

Duration: 14 Weeks



THE PROJECT:

The scheme required the provision of all services for the design and construction of the phased works for Jackdaw Scar Raised Ford on a 2 Stage Design and Build contract basis. Stage 1 (Design) was awarded under an NEC3 ECC Main Option C (Target Cost with Activity Schedule) contract. Using the concept design as the baseline position, the final deliverables for Stage 1 were to produce a fully considered detailed design that remains true to the intent of the original concept, whilst incorporating Early Contractor Involvement, buildability, risk mitigation and opportunities into the whole scheme.

WORKS UNDERTAKEN:

Stage 1 required all necessary approvals for delivery of the construction phase works, a fully approved and detailed design, compilation of the Stage 2 Works Information, NEC Option A - Activity Schedule and a detailed programme with narrative for Stage 2. The Design was based upon the concept work scope that has been developed by CCC with all Key Stakeholders including, the Highway Network Manager, Environment Agency, Eden Rivers Trust and the Kings Meaburn Parish Council. Cumbria County Council (CCC) reviewed the Stage 1 deliverables against their initial requirements and approved the award of the Stage 2 construction works under an NEC3 ECC Main Option A (Priced Contract with Activity Schedule).

During the Stage 1 process, we visited site to establish constraints on access and to gain all necessary approvals and permits to access the area of works, including consulting with the Environment Agency and other statutory consultees to establish the consents required for the construction works

The Stage 2 construction works comprised the construction of a new reinforced concrete box culvert structure and wing walls to carry the U3188 road over the river Lyvennett to replace the concrete slab structure, which was severely damaged during Storm Desmond in 2015 and later completely removed.

Approximately 60m of carriageway was realigned to meet with the new raised ford, with a new carriageway 3.0m wide. Works included coffer dam installation, earthworks, pavement, drainage, kerbing, road signs, installation of river bank protection works in the form of rip-rap, and the creation of a "fish-pass" into the permanent works to allow access to, through and past the new raised ford.

 The Stage 2 works commenced on the 19th of July 2021 and completed on the 20th of October 2021.

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