

Kee Klamp Pedestrian Restraint System



Salix Vmax

Existing boundary fencing to remain

B5605 Newbridge

Upper wall to interface with existing wall at Ch.0

Existing buttress to be retained.

Masonry slope facing

Top soil retention, 'GeoCell' or equivalent, 150mm depth, from scour protection to crest of slope

Soft scour protection (Salix Vmax or similar).

Existing Fishermans path to remain

Existing fisherman's path to remain, path to continue across 1.5m wide pile cap. Contractor to design and install prefabricated metal steps to provide access from existing path onto continuation of path along raised pile cap.

Pile wall to interface into existing river training wall at Ch.0

Extent of slip material removal from river is TBC.

Contiguous piled wall alignment

Cast insitu concrete steps between change in pile cap levels

1150mm high galvanised pedestrian restraint system. ("Kee Klamp" or similar approved)

Precast retaining wall, designed by Others. Carrier drain to be installed to back of wall, to extend full length of wall with rodding point at either end.

Made Ground to be removed as part of cutting and replaced with Class 1A1 backfill.

Upper wall to interface with existing wall at Ch.58.

Proposed Eastern interface. 26deg cut to existing slope from Eastern interface

Proposed embankment.

Standard 300mm x 300mm backfilled anchor trench to boundary of Salix Vmax C500

Extent of Salix Vmax (C500) above Pile Wall Section 3B of contiguous piled wall to be confirmed following removal of established trees and vegetation for access track. Salix Vmax to be installed across extent of stripped vegetation up to edge of root zone for retained trees as agreed with Arboriculturist

Slope of marginal stability. To be monitored during works.

Pile wall to terminate behind existing river training wall at Ch.45.20

Existing ground to be locally adjusted to provide tie in in between top of 51.000mAOD pile cap and existing fisherman's path

Existing river training wall (remnants of). Currently proposed to retain wall as is.

Existing drainage outfall in existing river training wall. Continuity of drainage to be provided following installation of new pile wall.

LMA 60/300 riprap, varying thickness 800-1200mm.

Timber gate to remain

Existing fisherman's path to be used as access route during construction

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1 D-G-0002

Section 1 12.750m (53.0mAOD)

Section 2 9.150m (52.0mAOD)

Section 3A 12.750m (51.000mAOD)

Section 3B 10.590m (51.000mAOD)

River Dee

River Dee Direction of Flow

B5605 Pentre

Location Plan

1 : 200

0 10m 20m

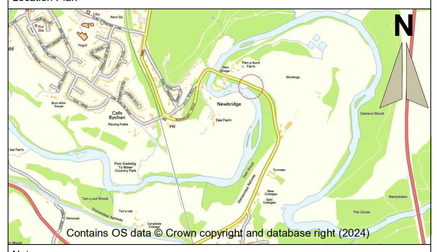
1:200

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C:\Users\ber42918\Mott MacDonald\Newbridge Landslip Remediation Jones Bros - Proposal Project - Do\Develop\08. Drawings (SS)\07. G-Geotechnical\Drawings (D)\100114754-MMD-XX-XX-D-G-0001 -General Arrangement For Planning Sheet 1 of 2.dwg Nov 29, 2024 - 1:57PM
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Location Plan



Notes

1. Do not scale any items or information from this drawing.
2. All dimensions shown in millimetres unless otherwise stated.
3. All levels are in metres above Ordnance Datum (AOD).
4. The site is located at Grid Reference: SJ 28960 41694.
5. Scour protection measure shown based on ongoing design proposed to be comprised of:
   a. Contiguous bored pile wall from 47mAOD scour depth to top of capping beam. Excavation of slip material behind pile wall alignment to rockhead level.
   b. Soft scour protection (Salix Vmax) to earthwork above pile wall, from top of pile capping beam to 55.5mAOD (top of flood zone).
   c. Soft scour protection by layer of LMA 60/300 riprap to provide transition between proposed works and existing embankment.
6. Wrexham Council's OS License number = 100023429.2007.
7. Drawings provided to support Town and Country Planning Act (TCPA) Full Planning Submission.

Key to symbols

- Proposed precast retaining wall, designed by Others
- Proposed contiguous piled wall
- Proposed earthwork solution Embankment
- Proposed earthwork solution Cutting - 26deg across slope
- Proposed earthwork solution Embankment - 0.5m wide berm
- Proposed area of top soil retention 'GeoCell' or equivalent, 150mm deep
- Proposed 1150mm high guard rail to edge of pile cap
- Red line boundary
- Full depth reconstruction (Footway)
- Full depth reconstruction (Road)
- Plane off surface course and reinstate (Footway)
- Plane off surface course and reinstate (Road)
- Proposed soft scour protection (Salix Vmax C500) See note 6
- Proposed earthwork solution - Variable width berm
- LMA 60/300 riprap, varying thickness 800-1200mm
- Position of river bank

Reference drawings

100114754-MMD-XX-XX-D-G-0002 - General Arrangement for Planning - Sheet 2 of 2

Rev	Date	Drawn	Description	Ch'k'd	App'd
P05	29.11.2024	NB	Updated Design for Planning	AH	JW
P04	22.11.2024	NB	Updated Design for Planning	DT	TSJ
P03	30.09.2024	NB	Updated Design for Planning	DT	TSJ
P02	23.05.2024	SS	Updated Design for Planning	DT	TSJ
P01	27.03.2024	SS	Planning Drawing	DT	TSJ

Status Stamp

For Information Review

MOTT MACDONALD

2 Callaghan Square
Cardiff
CF10 5BT
United Kingdom

T +44 (0)29 2046 7800
F +44 (0)29 2047 1888
W - www.mottmac.com

JONES BROS CIVIL ENGINEERING UK

Client

wrexham COUNTY BOROUGH COUNCIL CYNGOR BWRDEISTREF SIROL wrecsam

Title

Newbridge Landslip Remediation General Arrangements for Planning Sheet 1 of 2 - Plan View

Designed	D. Tudor	DT	Eng check	D. Tudor	DT
Drawn	N.Bergeson	NB	Coordination	A. Hart	AH
Dwg check	K.Lee	KL	Approved	T. St John	TSJ

MMD Project Number	Scale at A1	Security
100114754	1:200	STD

Suitability Description	Suit. Code
Suitable For Information	S2

Drawing Number	Revision
100114754-MMD-XX-XX-D-G-0001	P05