



Dynamic Rivers
(Survey and Design) Ltd



Unit 30,
Malthouse
Business Centre,
Regent Street,
Llangollen
Wrexham,
Denbighshire,
LL20 8HS.

REVISION	DATE
1	11/10

- LEGEND:**
Features
- Rapids
 - Widening
 - Reprofile
 - Bed Check Feature
 - Tree Planting

NOTES:

ALL LEVELS ARE GIVEN IN m A.O.D. (METERS ABOVE ORDNANCE DATUM)

PROPOSED LEVELS MAY VARY +/- 100 mm TO GENERATE BED AND FEATURE VARIATION

CHAINAGE MEASUREMENTS ARE IN METERS

ALL ARISING TO BE STOCKPILED FOR DISPOSAL OFF SITE OR LOCAL SPREADING OUTSIDE OF THE FLOODPLAIN

REFER TO FEATURE BOUNDARY COORDINATES "DR-2021-0074- Clywedog_Coordinates" FOR EXACT INDIVIDUAL FEATURE SHAPES.

PROJECT TITLE:
Clwedoog Weirs - Felin Puleston

PROJECT NUMBER:
DR-2021-0074

SHEET TITLE:
OVERVIEW MAP

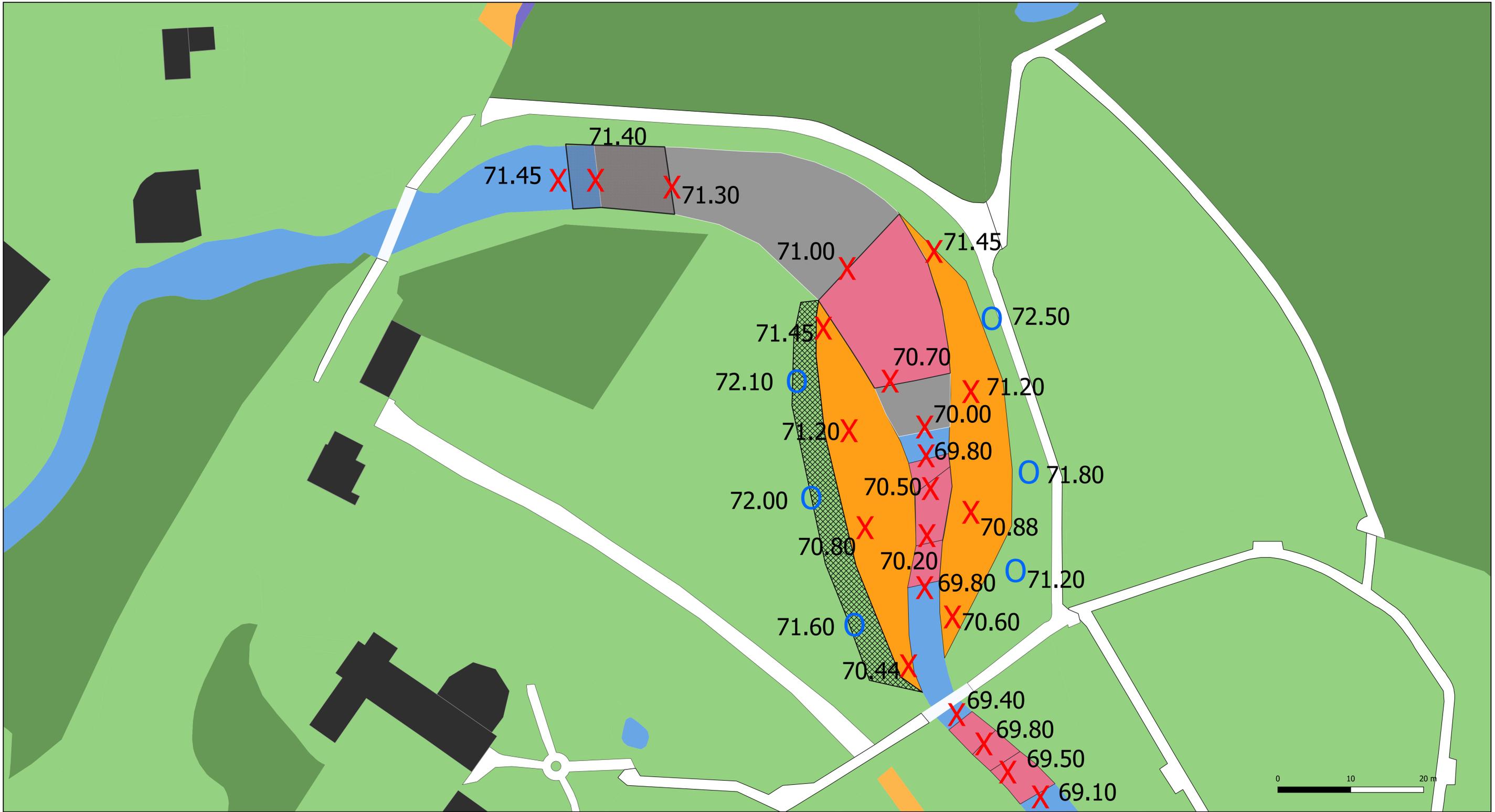
AUTHORS:

Author: RW
Checked: SB
Approved: GH

SCALE:
MAP
SCALE AT
A1

SHEET:
1





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LEGEND:
Features
■ Rapids
■ Widening
■ Reprofile
 Bed Check Feature
 Tree Planting

X FINISH LEVELS
○ FLOODPLAIN LEVEL

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PROJECT TITLE:
Clywedog Weirs - Felin Puleston

PROJECT NUMBER:
DR-2021-0074

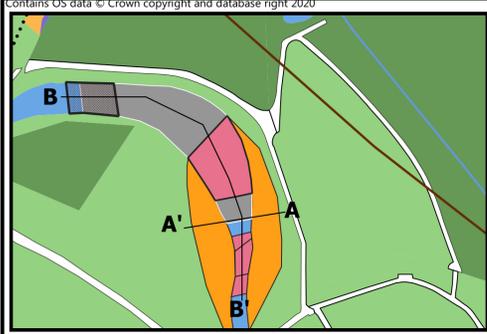
SHEET TITLE:
OVERVIEW MAP - LEVELS

AUTHORS:

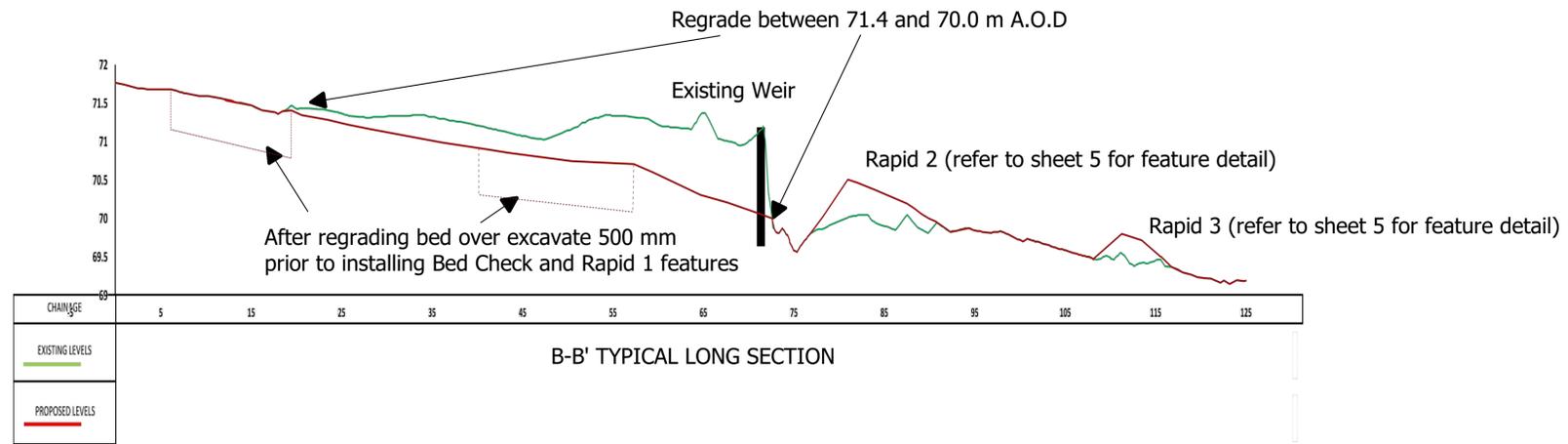
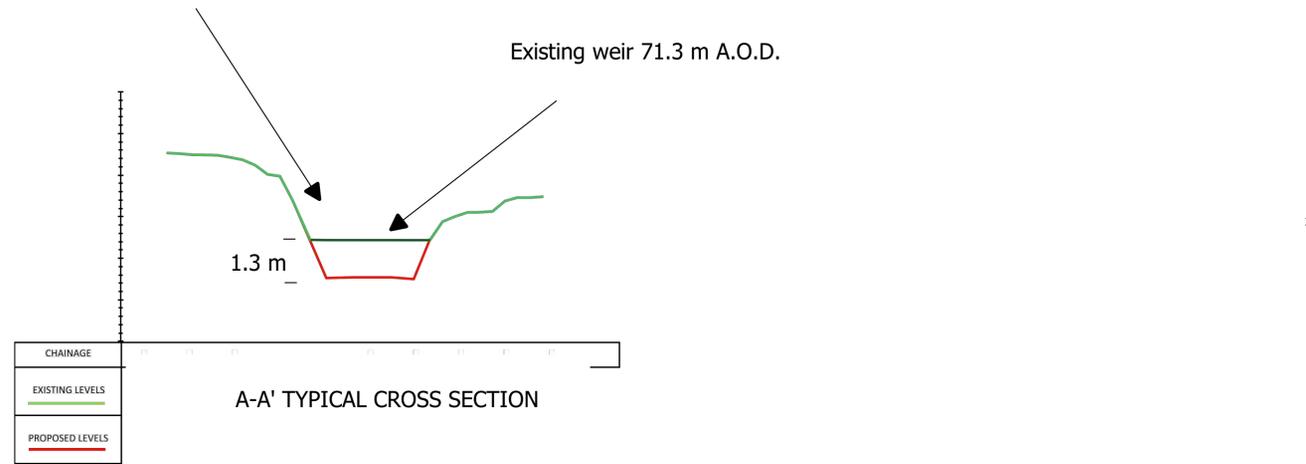
Author: RW
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SCALE:
MAP SCALE AT A1

SHEET:
3



Remove existing weir and regrade bed.
Remove associated gabions along existing channel



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PROJECT TITLE:
Clwedoog Weirs - Felin Puleston

PROJECT NUMBER:
DR-2021-0074

SHEET TITLE:
REMOVE WEIR AND REGRADE BED

AUTHORS:

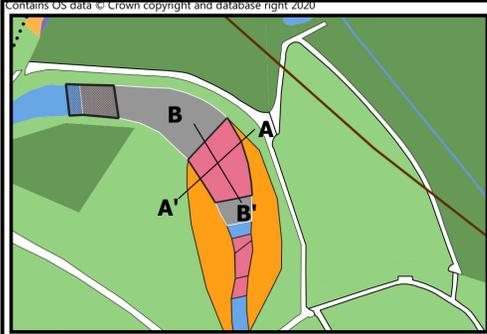
Author: RW
Checked: SB
Approved: GH

SCALE:

MAP
SCALE AT
A1

SHEET:

4



Feature Specification Table:

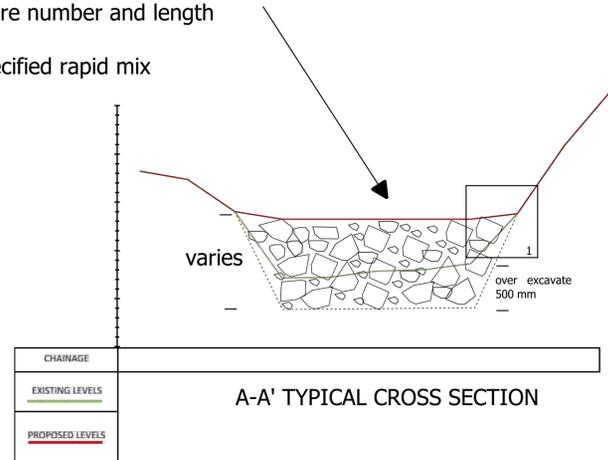
FEATURE NUMBER	REAM STARTING COORDINATE (OSGB)	LENGTH OF FEATURE	MAX WIDTH OF FEATURE (M)	MAX UST BASELINE LEVEL (m AOD)	MAX DST BASELINE LEVEL (m AOD)	MAX UST CREST ELEVATION (m AOD)	MAX DST CREST ELEVATION (m AOD)
BED CHECK FEATURE	332519.831,349329.743	13.1 ACROSS FULL CHANNEL WIDTH		71.45	71.3 (AFTER BED REGRADE)	71.45	71.3
RAPID 1	332559.239,349318.854	18.7 ACROSS FULL CHANNEL WIDTH		71 (AFTER BED REGRADE)	70.7 (AFTER BED REGRADE)		70.7
RAPID 2	332569.436,349292.064	17.3 ACROSS FULL CHANNEL WIDTH		69.8	69.8	70.5	70.2
RAPID 3	332573.239,349295.340	14.4 ACROSS FULL CHANNEL WIDTH		69.4	69.1	69.8	69.5



For Bed Check Feature and Rapid 1, over excavate 500 mm and Infill to regraded bed level (see Sheet 4 for feature detail). For Rapids 2 & 3 infill from current bed to level specified in feature table to create rapid.

Refer to table for feature number and length

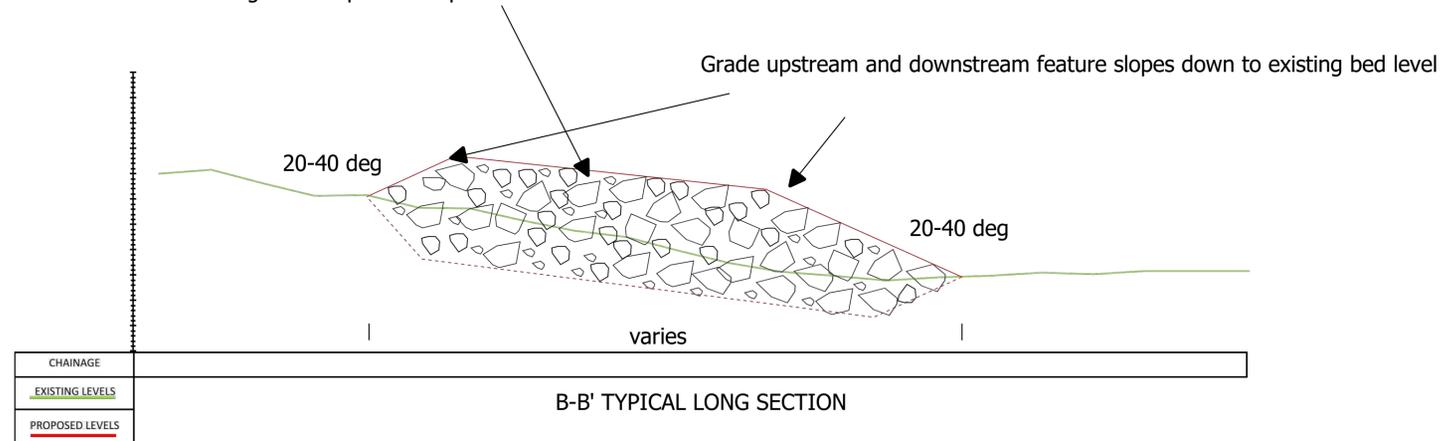
Refer to legend for specified rapid mix



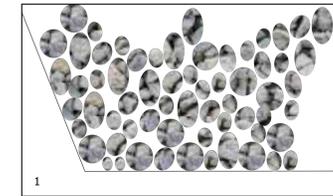
For Bed Check Feature and Rapid 1, over excavate 500 mm and Infill to regraded bed level (see Sheet 4 for feature detail). For Rapids 2 & 3 infill from current bed to level specified in feature table to create rapid.

Refer to table for feature number and length

Refer to legend for specified rapid mix



COMPACT AND ROUGHEN TO CREATE IRREGULAR SURFACE WITH MULTIPLE FLOW ROUTES



USE SPECIFIED MATERIAL MIX ENSURE ALL SIZES ARE WELL MIXED



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LEGEND:

RAPID MIX:
50% 200-300 mm
25% 100-200 mm
25% <100 mm

BED CHECK FEATURE MIX:
30% 300-500 mm
30% 200-300 mm
30% 100-200 mm
10% <100 mm

NOTES:

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REFER TO FEATURE BOUNDARY COORDINATES "DR-2021-0074- Clywedog_Coordinates" FOR EXACT INDIVIDUAL FEATURE SHAPES

PROJECT TITLE:
Clwddog Weirs - Felin Puleston

PROJECT NUMBER:
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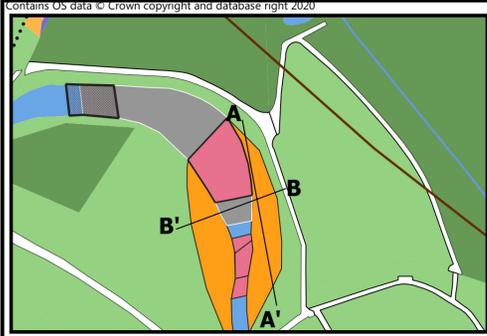
SHEET TITLE:
RAPID AND BED CHECK FEATURE

AUTHORS:

Author: RW
Checked: SB
Approved: GH

SCALE:
MAP
SCALE AT
A1

SHEET:
5

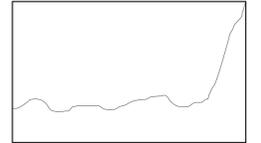


Feature Specification Table:

FEATURE NUMBER	UPSTREAM STARTING COORDINATE (OSGB)	LENGTH OF FEATURE (M)	MAX WIDTH OF FEATURE (M)	MAX UST BASELINE LEVEL (m AOD)	MAX DST BASELINE LEVEL (m AOD)	MAX UST CUT ELEVATION (m AOD)	MAX DST CUT ELEVATION (m AOD)
1	332565.634,349324.730	62	10.5	72.3	70.9	71.45	70.6
2	332553.881,349312.286	55	9.8	72	71	71.45	70.44



VARY FINISHED HEIGHT +/- 100 mm TO CREATE LOCAL VARIATION AND LEAVE ROUGH SURFACE

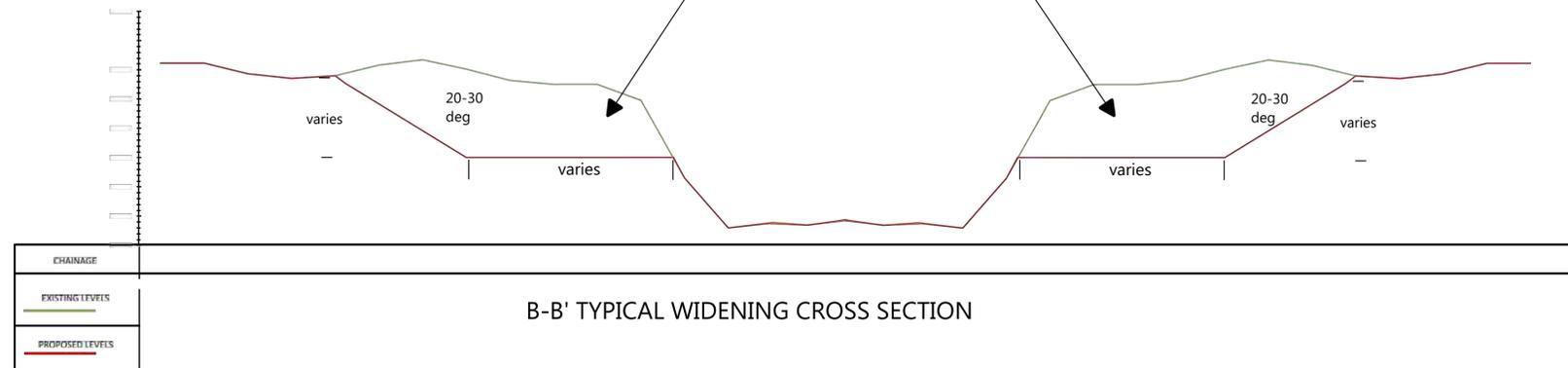


EXCAVATE TO LEVEL IN FEATURE SPECIFICATION TABLE TO CREATE WIDENING



A-A' TYPICAL WIDENING LONG SECTION

EXCAVATE TO LEVEL IN FEATURE SPECIFICATION TABLE TO CREATE WIDENING



B-B' TYPICAL WIDENING CROSS SECTION



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Clwddog Weirs - Felin Puleston

PROJECT NUMBER:
DR-2021-0074

SHEET TITLE:
RAPID AND BED CHECK FEATURE

AUTHORS:

Author: RW
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SCALE:

MAP
SCALE AT
A1

SHEET:

6