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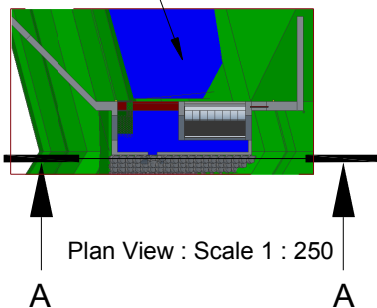
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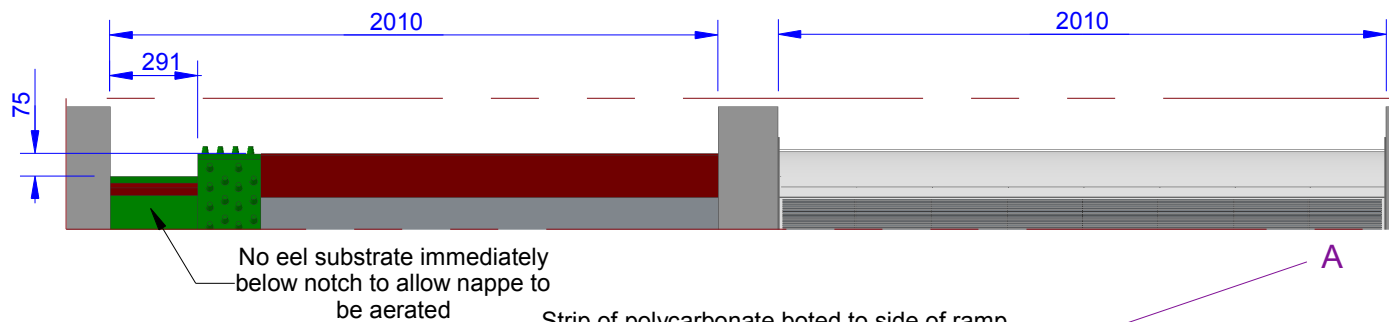
# Gerallt Griffith Intake Front Elevation, Levels and Take Calculations

Impounded area to be backfilled with clean material prior to commissioning

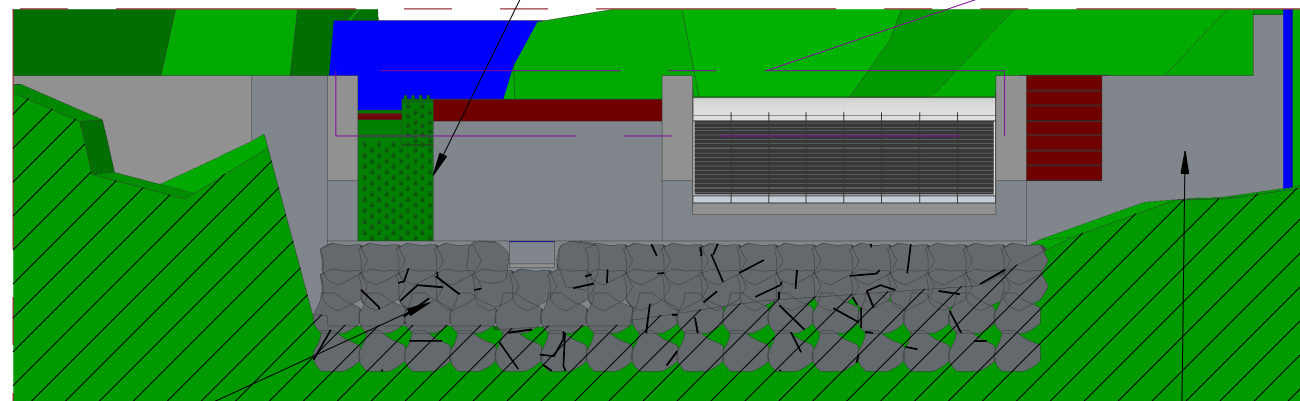


Plan View : Scale 1 : 250

Detail A



Section A-A  
Scale 1 : 50



Point	Level
Top Peg A	202,935
Top Peg B	203,228
Crest	203,335
Base of Screen	202,635
Upstream Water Level at existing step	203,840
Downstream Water Level	201,888

Rocky Ramp downstream of fishpool

Areas downstream of the wing walls to be infilled with boulders to reduce visual impact

### Take

Total Crest Width : 2010mm + 2010mm = 4020mm  
 Screen Width : 2010mm  
 Take : 2010/4020 = 50%

### Hands-off-flow

Calculation of flow over rectangular broad notch in stop log:

Discharge coefficient,  $C_d = 1.6$   
 Notch depth,  $h = 0.097m$   
 Notch width,  $w = 0.291m$

$$Q = C_d * w * h^{1.5}$$

$$= 1.6 * 0.291 * 0.097^{1.5}$$

$$= 0.01407 \text{ m}^3 / \text{sec}$$

$$= 14.07 \text{ lps}$$



All levels relative to Newlyn. All dimensions in mm.

Client : Gerallt Griffith  
 Address : Doluwchadda, Llanfachreth  
 Dolgellau, Gwynedd, LL40 2EH  
 Drawn By : MJP

Date : 08/10/18  
 Scale : 1 : 25 @ A4  
 Drawing No : 18100801  
 Version : 1

Revision Details



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 MCS Hydro Transition Installer 123

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