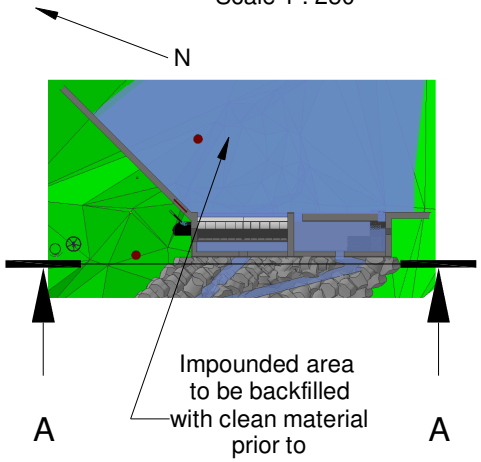
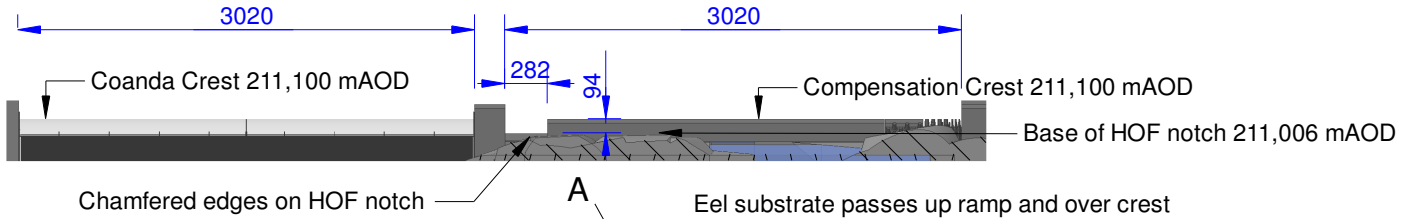
Dylan Jones Intake
Front Elevation, Levels and Take Calculations

Point	Level
Top Peg A	211,000
Top Peg B	212,660
Crest	211,100
Base of Screen	210,650
Reference X1	215,354
Reference X2	213,755

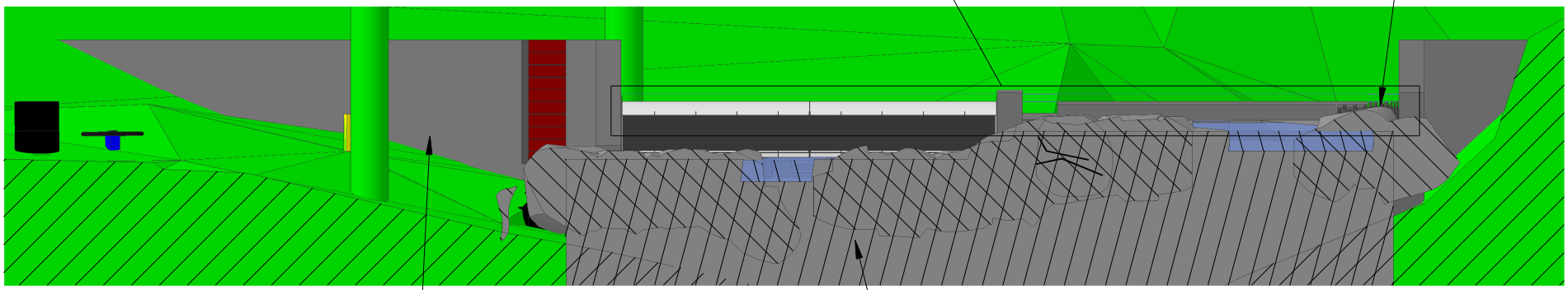
Plan View
Scale 1 : 250



Detail A



Section A-A



Take

Total Crest Width : 3020mm + 3020mm = 6040mm
Screen Width : 3020mm
Take : 3020/6040 = 50%

0 1000 2000mm

Note on Hands-off-flow

No water will be abstracted until the watercourse's flow exceeds 14.25l/s. Both the HoF notch (13.0l/s) and the eel pass notch (1.25l/s) have to be satisfied before water flows over the coanda's crest

Hands-off-flow

Calculation of flow over rectangular broad notch in stop log:
Discharge coefficient, Cd = 1.6
Notch depth, h = 0.094m
Notch width, w = 0.282m

Q = Cd * w * h^1.5
= 1.6 * 0.282 * 0.094^1.5
= 0.01300 m^3 / sec
= 13.0 lps

All levels relative to Newlyn. All dimensions in mm.

Client : **Dylan Jones**
Address : Ty Mawr, Mallwyd
Machynlleth, SY20 9HS
Drawn By : MJP

Date : 30/12/22
Scale : 1 : 50 @ A4
Drawing No : 22123001
Version : 5

Revision Details
v5 : Correction to level given for HoF notch

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