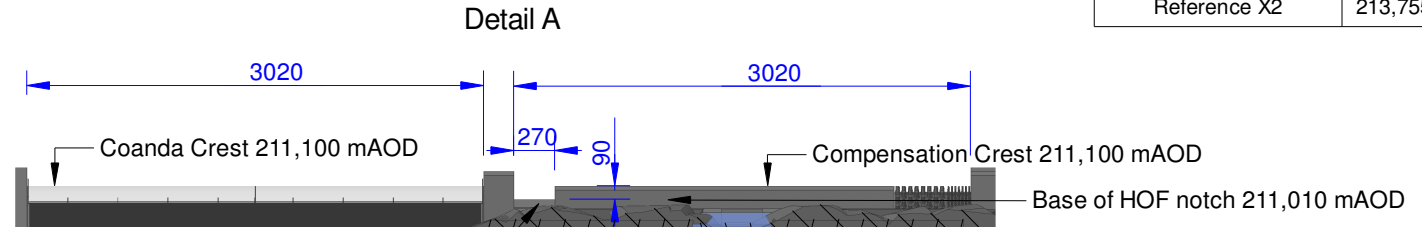
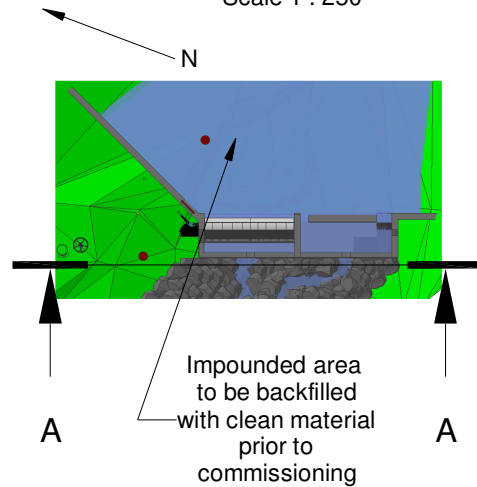


Dylan Jones Intake Front Elevation, Levels and Take Calculations

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

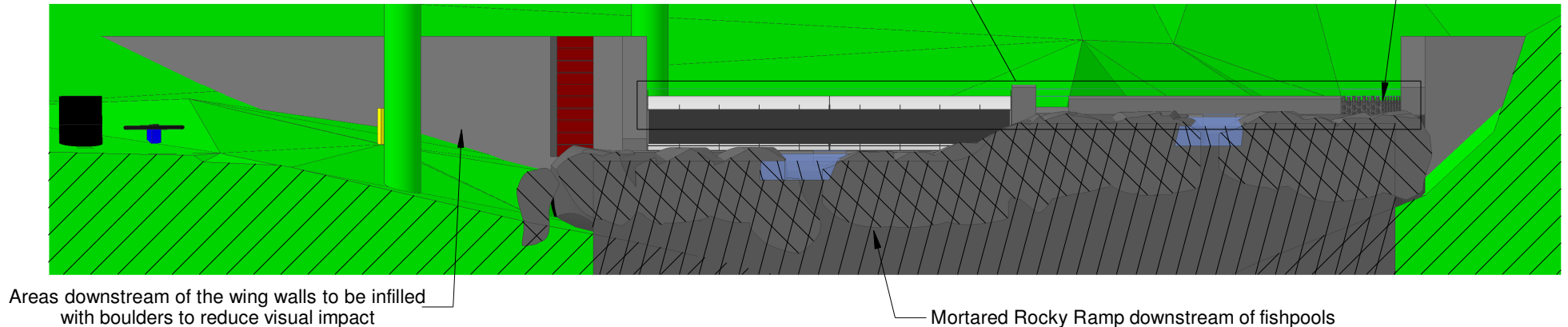
Plan View
Scale 1 : 250



Section A-A

Eel substrate passes up ramp and over crest through dedicated notch

Strip of polycarbonate bolted to side of ramp to ensure water retained over full length



Take

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

Note on Hands-off-flow

No water will be abstracted until the watercourse's flow exceeds 13.0l/s. Both the HoF notch (11.5l/s) and the eel pass notch (2.5l/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, $C_d = 1.6$

Notch depth, $h = 0.090m$

Notch width, $w = 0.270m$

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

$$= 1.6 * 0.270 * 0.090^{1.5}$$

$$= 0.01166 m^3 / sec$$

$$= 11.7 lps$$

0 1000 2000mm

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 : 2

Revision Details

v2 : Fish and eel passage
and HoF notch revised

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MCS Hydro Transition Installer 123