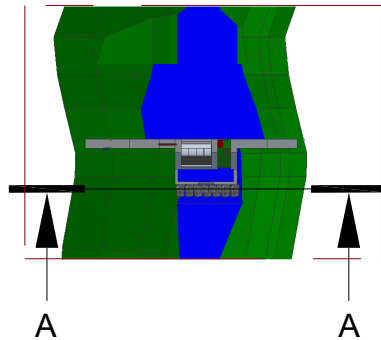


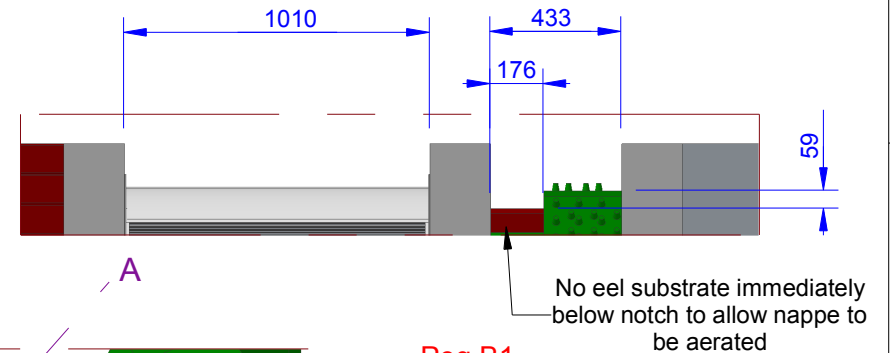
Mark Sealy Intake 1 Front Elevation, Levels and Take Calculations

Plan View : Scale 1 : 250

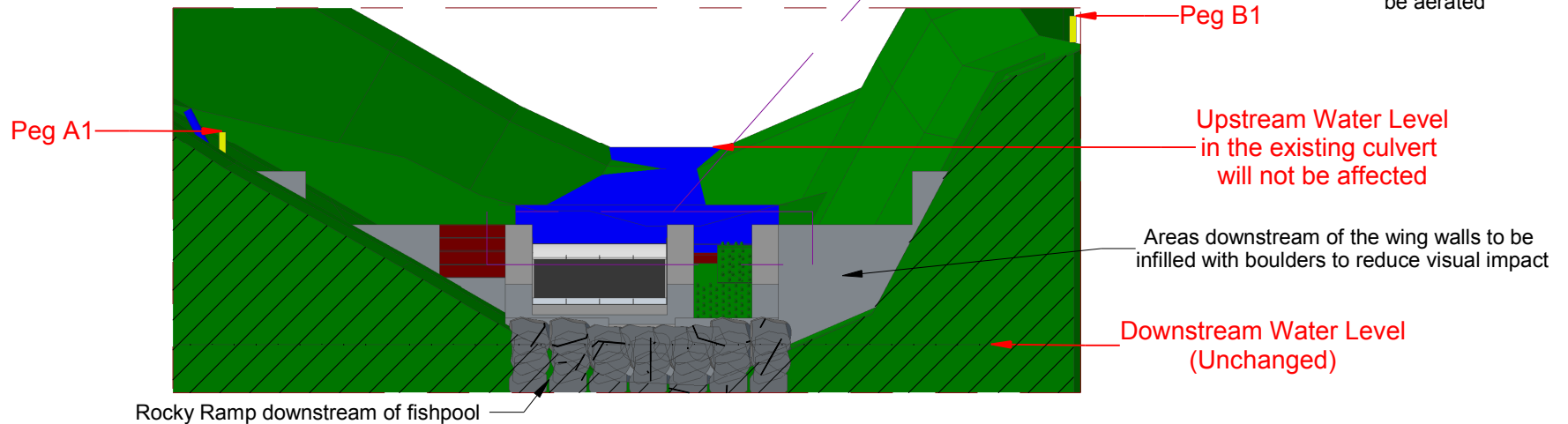


Point	Level
Top Peg A1	193,661
Top Peg B1	194,529
Crest	192,814
Upstream Water Level in the existing culvert	193,541
Downstream Water Level	192,063

Detail A



Section A-A
Scale 1 : 50



Take

Total Crest Width : 1010mm + 433mm = 1443mm
Screen Width : 1010mm
Take : 1010/1443 = 70%

Hands-off-flow

Calculation of flow over rectangular broad notch in stop log:

Discharge coefficient, $C_d = 1.6$
Notch depth, $h = 0.059m$
Notch width, $w = 0.176m$

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

$$= 1.6 * 0.176 * 0.059^{1.5}$$

$$= 0.00404 \text{ m}^3 / \text{sec}$$

$$= 4.04 \text{ lps}$$



All levels relative to Newlyn. All dimensions in mm.

Client : Mark Sealy

Address : SY20 9DT

Drawn By : MJP

Date : 19/09/18

Scale : 1 : 25 @ A4

Drawing No : 18091901

Version : 1

Revision Details

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Hydro

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MCS Hydro Transition Installer 123