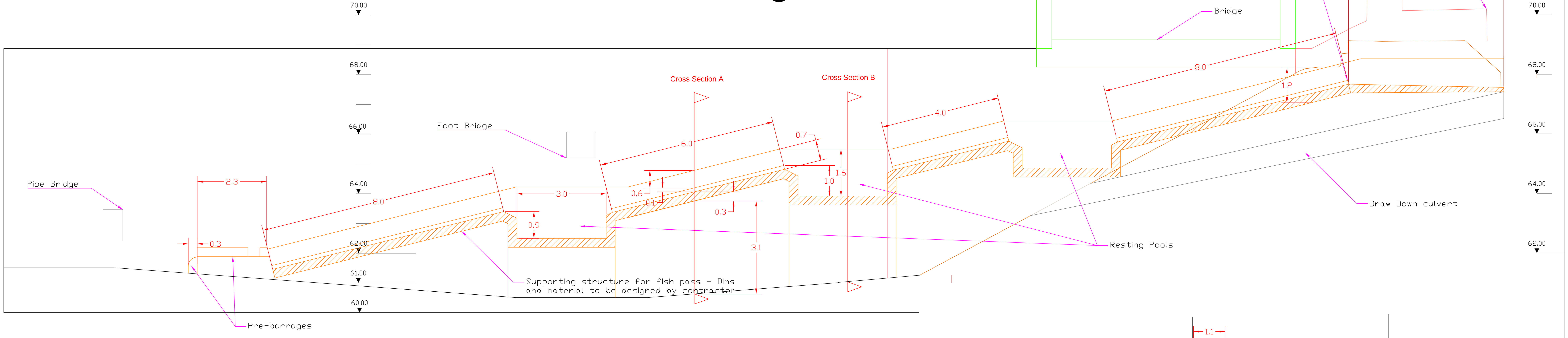
Cross and Long Section

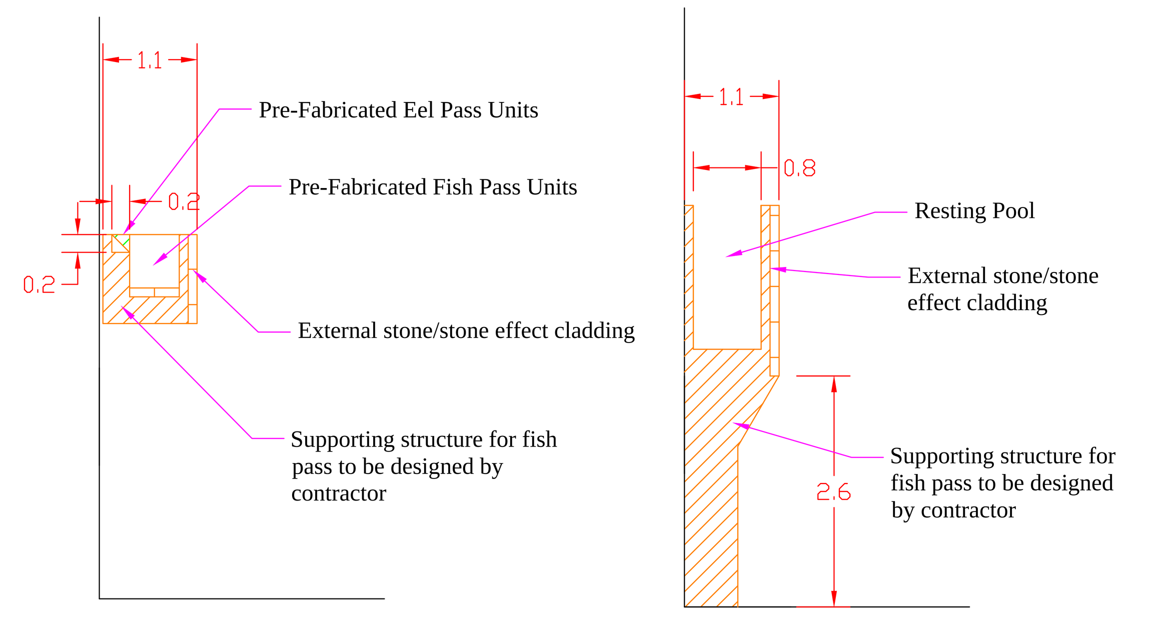


Specification:

1. The fish pass is to be an Alaskan A Fish Pass using pre-fabricated Alaskan A Units
2. Gradient of baffle flights not greater than 25%
3. Individual flights not greater than 8m
4. Alaskan A Unit height 0.7m
5. Alaskan A Unit width 0.56m
6. Pool size 3 x 1 x 0.7 to achieve necessary power dissipation
7. To be prefabricated off site and installed onto constructed insitu columns, or other suitable support structure.
8. Pre-fabricated materials should be aluminium/steel/concrete or other suitable material
9. Pre-barrage to be constructed in-situ
10. Visible outside faces to be clad with patterned cement board to reflect surrounding stonework
11. Key Design elements:
    - 11.1. Contractor responsible for engineering and structural design of resting pools, supports for the resting pools & fish pass (including foundations), external cladding and pre-barrages.
    - 11.2. Contractor responsible for engineering and structural design of eel pass unit. The unit must include a removable lid for maintenance. Bristle Boards will be fixed within the unit on a lateral grade of 45 degrees. The Bristles will be NLS 1mm thick, and Bristles will be 70mm and made from polyester. Bristle tufts will be fixed in bunches within 5mm holes on 1m long boards (formed from polypropylene or suitable equivelant), at 21mm spacing.
    - 11.3. The supports must support the weight of water within fish pass and resting pools, and hydraulic forces including vertical and horizontal loading. This should also include the weight of two people undertaking maintenance within channel.
    - 11.4. Suitable rail, or "hook on" feature to be including in design and construction by contractor.
12. Stop log slot recesses to be included at upstream exit
13. Recess for monitoring equipment also to be incorporated to upstream exit
14. Carry out remedial works as identified in doc ref: EVY0763
15. Tree works to be undertaken in line with Arb impact assessment recommendations
16. Carry out Level 1 Basic visual record of structure in line with Understanding Historic Buildings "A Guide to Good Recording Practice", Historic England

Notes:

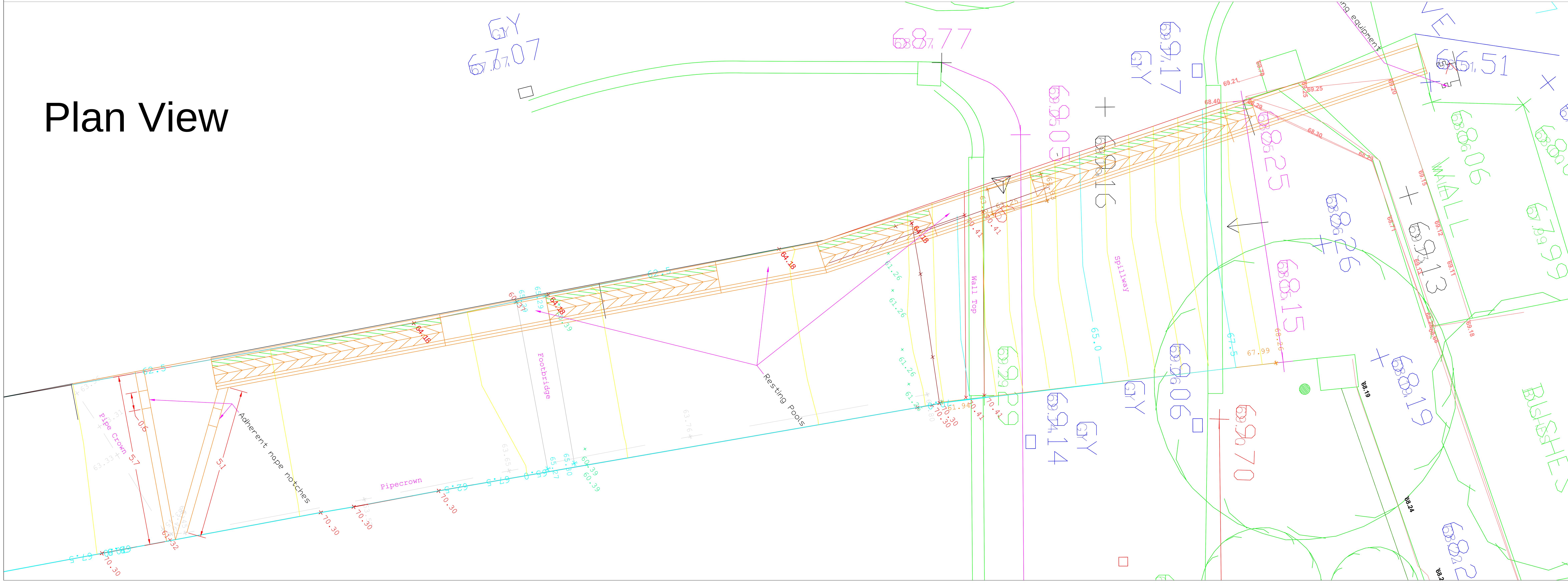
- Ribble Rivers Trust responsible for Hydraulic and ecological design (including obtaining EA approval Fish Pass Panel),
- All Dimensions in Metres unless otherwise specified

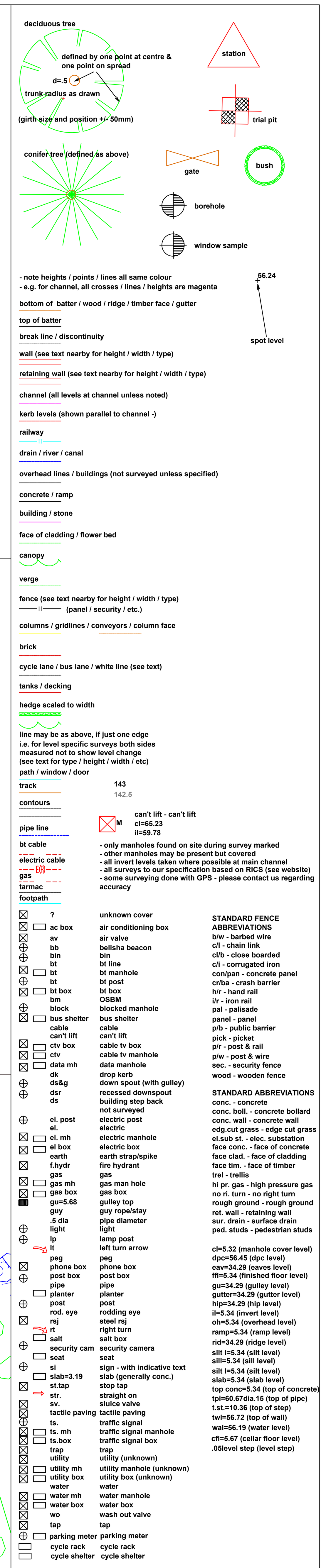


Cross Section A

Cross Section B

Plan View





Primrose Lodge Blue and Greenway Project
Outline Designs:
Fish Passage - Photo Locations

RIBBLE RIVERS TRUST

Additional Comments:
To local grid based on ostn02/osgm02 all work to sss specification, some by gps, contact us regarding details

Drawing Number:	DPLFP01	Revision:	H
Drawn By:	JS	Checked By:	MF
Date:	16/04/2019	Scale:	1:50 @ A0