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Notes:

Soil Type:  
Slowly permeable seasonally wet acid loamy & clayey soils.

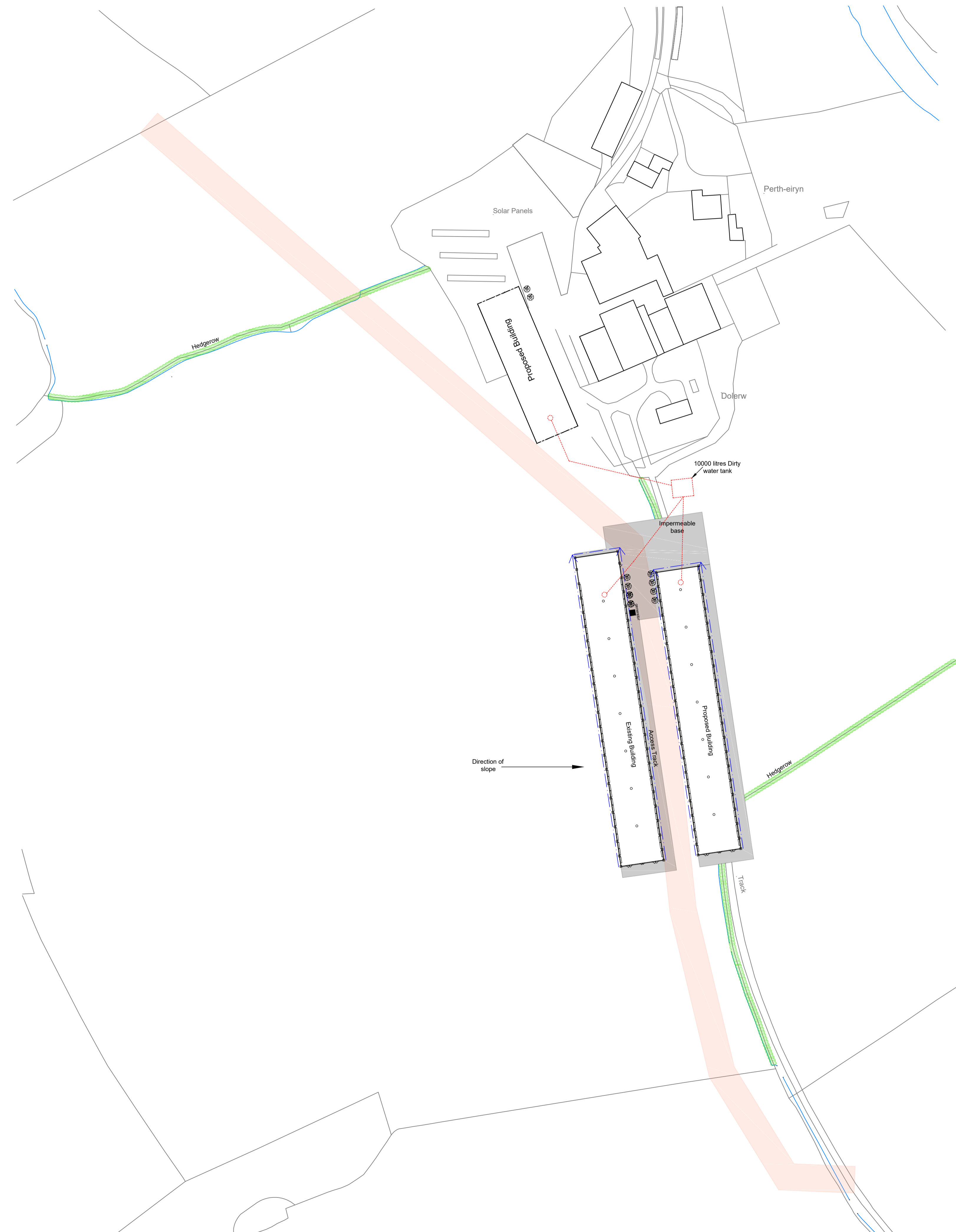
The clean and foul water drainage systems will be kept separate in order to ensure no pollution incident occurs to the environment.

Clean water from roof and clean surfaces to open and stone filled infiltration trenches and a piped system each side of building. This is then discharged to the watercourse. The outfall will be controlled to provide the required 2.4 l/s. This will be controlled using a hydro brake chamber produced by Hydro International. At the wash down stage the clean water system around the yard will be switched to the underground dirty water tank.

Dirty water from wash down will be collected in an underground sealed tank, which will be constructed to meet the SSAFO Regulations (Wales) 2010 standards. It will then be tankered out and spread on the applicants land in accordance with the manure management plan.

At least 10 metres of either side of any watercourse including ditches & piped ditches will be fenced out. This will avoid direct spreading into the watercourse & also reduce the risk of run-off reaching the watercourse.

The birds within the free range unit will graze the designated land in a rotational field system. The birds will step out of the building through the pop holes provided and onto a veranda, which shall ensure that the ground is not poached and compacted by the birds. The veranda shall also ensure that the feet of the birds are cleaned prior to entering the building. The birds will be then directed to those fields available for grazing in rotation to prevent over stocking of the ground and ensure the fertility of soil. Good pasture management is essential, and it is paramount the problems of parasitic intestinal worms and coccidian oocysts are avoided.



Rev	Description	Date	Dr by	App by
Original				



Residential - Agricultural - Commercial	
Job	Proposed Free Range Egg Production Unit
Title	Proposed Drainage Plan
Location	Pertherin Farm Pontdolgoch Caersws Powys SY17 5NJ
Client	RG & JA Hughes
Scales	1:1000 @ A1
Drawing No.	RJC-MZ77-Hughes-08
Drawn by	AZ
Date	02/08/2019

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