



KEY

- Surface Water Drain & Inspection Chamber
- Surface Water Drain & Concrete Inspection Chamber 750 x 600
- Foul Water Drain & Inspection Chamber
- Combined Drain & Inspection Chamber

SURFACE WATER ATTENUATION DESIGN NOTE

- The proposed access & parking area will be constructed in a permeable surface and there will be no new impermeable areas.
- As this is a brownfield site an unrestricted flow calculation has been done and the discharge is 9.7 l/s.
- A calculation has then been done with a 30% betterment and a discharge of 6.8 l/s.
- With a 78mm Orifice Plate in S3 the required attenuation for 6.8 l/s can be accommodated within the 150mm diameter pipe network.
- Areas used in the calculations:
Building Area = 164,3m²
Parking Area = 0m²

- Notes
- Do not scale from this drawing.
 - All drawings are to be checked by the contractor and setting out engineer and read in conjunction with one another to ensure they are mutually compatible with each other before any setting out or construction commences.
In the event of apparent ambiguity or contradiction the engineer and/or architect shall be notified immediately. Summer Consultancy accepts no liability in the event of not being so notified and where construction work has commenced.
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 - The contours have been obtained via Promap from a Digital Terrain Model (DTM) of the bare earth/underlying terrain of the earth's surface. They are usually derived from Digital Surface Models (DSMs) by digitally removing the cultural (man-made) and vegetation features.
The RADAR or also known as IFSAR (Interferometric Synthetic Aperture Radar) level information is to a resolution of 5m and has a vertical accuracy of +/-1m.
These contours and any level information must only be used as guide.
 - The site layout is an extract from AIP Architect's Proposed Site Layout CAD Ref: CJO03 Master 120619. Received on 17-06-19.
This is shown for information purposes only and must not be used for setting out purposes.
Summer Consultancy have not undertaken, nor have been instructed to undertake, any special investigations to verify the information provided. The Principle Contractor, sub contractors and others who may need to rely on this information must ascertain its accuracy before commencing the works. Summer Consultancy accept no responsibility or liability for the accuracy of this information.
 - All drainage works are to be constructed in accordance with Sewers for Adoption Design & Construction Guide 7th Edition, Building Regulations 2015 Edition Approved Document H or current British Standards for Drainage.

ISSUED FOR PLANNING
NOT FOR CONSTRUCTION

Revisions

Rev	Date	Description
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Client: WYNNSTAY & CEFN ESTATE

Project: CINDERS BARN RUABON

Drawing Title: DRAINAGE

Scale: 1:100 Drawn by: JRS Date: July 2019

Drawing Number: 359-18-15 Revision: