



5.7m

Little
Cauldham
Farmhouse

Swale and Filter Drain
1m deep swale with 1 in 3 side
slopes and 0.5m base width
1m deep x 2m filter trench

Attenuation Basin
CL - 151.00
IL - 149.500
Depth (m) - 1.50 m

Bottom Area (m²) - 390m²
Top Area (m²) - 840 m²
1 in 3 Side Slopes
Freeboard - 315mm
Water Depth - 1.185m
Attenuation Volume - 1640m³

Infiltrating Tank
30m x 13m x 2.7m deep
IL - 146.800
Infiltration Rate - 0.036036m/hr

151.3m

Attenuation Basin
CL - 156.00
IL - 154.50
Depth (m) - 1.50 m

Bottom Area (m²) - 30m²
Top Area (m²) - 220 m²
1 in 3 Side Slopes
Freeboard - 303mm
Water Depth - 1.197m
Attenuation Volume - 276m³

Infiltrating Tank
12m x 5m x 2.7m deep
IL - 151.80m
Infiltration Rate - 0.036036m/hr

Pump Station

Flow Control restricting
flow to 2.0l/s

Episode

167.0m

158.6

- NOTES
1. Do not scale from this drawing.
 2. All measurements are in metres unless stated otherwise.
 3. Topographical Survey provided by others. C&A accept no liability for any inaccuracies.
 4. Assumed infiltration rate taken from The SuDS Manual (CIRIA SuDS Manual) for chalk (0.388m/hr). Infiltration testing to be undertaken on site with rates being provided to engineer to confirm.
 5. C&A Consulting Engineers Ltd cannot guarantee the authenticity or reliability of any data and/or records provided by third parties.
 8. The suitability of the proposed basin location is subject to receiving detailed topographical survey, arboricultural and ecological constraints by others.
 9. Levels shown for features outside of the area of topographical survey have been taken from Lidar Data.

- Key
- Proposed Attenuation Basin
 - Proposed Infiltrating Tank
 - Proposed Swale and Filter Drain
 - Proposed Surface Water pipe and chamber

D	Amended to suit new site layout	MT	TSH	GAC	June 24
C	Amended to suit KCC Comments	MT	TSH	GAC	Apr 24
B	Redline boundary amended	TH	TSH	GAC	Feb 24
A	Amended to suit client comments and updated redline boundary	TH	TSH	GAC	Feb 24

Rev Amendments Drn Chk App Date

Issued by

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Job Title		Capel Le Ferne	
Drawing Title		Indicative Surface Water Drainage	
Client		Quinn Estates	
Scale	1:500 @A1	Date	Feb 24
Designed	MT	Checked	TSH
Drawn	MT	Approved	GAC
Job No	18-027	Drawing No	18-027-007
Rev	D		