

The Contractor is to check and verify in conjunction with the Architects details all setting out points, building and site dimensions, work and sewer levels at connection points and ensure that they are fully compliant with the contents and requirements of the site investigation report before work starts. The Contractor is to comply in all respects with current building regulations, British Standard Specifications, Building Regulations etc. whether or not specifically stated on this drawing.

This drawing is not intended to show details of ground conditions or ground contaminants. Each area of ground relied upon to support any structure depicted (including drainage) must be investigated by the Contractor any areas of formation for such structures which do not accord with the anticipated conditions as described in the site investigation report are to be immediately notified to the Engineer, where applicable. Any suspected fluid ground or ground contaminants on or within the ground should be further investigated by a suitable expert. Any weaknesses shown indicate typical slopes for guidance only and should be investigated further by a suitable geotechnical expert.

Where existing trees are shown to be retained they should be subject to a full Arboricultural Inspection for safety. All trees are to be checked on as to ensure they are a minimum of 5 metres from buildings and 3 metres from drainage and services, where applicable. A foundation is to be provided to accommodate the proposed tree planting, where applicable.

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GENERAL NOTES

- This drawing is to be read in conjunction with relevant architectural and engineering drawings.
 - Levels indicated in blocks are Finished floor levels and are 100mm above adjacent finished ground levels unless otherwise shown.
 - Levels of the existing road at the point of tie-in with proposed site road must be checked prior to commencement of works.
 - Any discrepancies between the details shown and actual on site conditions to be reported immediately to the engineer prior to commencement of works.
- ADOPTABLE ROADS AND SEWERS**
- Roads, footways and parking bays which form part of the Highway to be adopted under Section 38 of the Highways Act 1980 shall comply with the requirements of the Adopting Authority.
 - Sewers to be adopted under Section 104 of the Water Industries Act 1991 shall comply with the Water Authorities Association "Sewers for Adoption 6th Edition" with any amendments specified by the Adopting Water Authority.
 - All pipes to be used in adoptable sewerage shall be either clayware to BS EN 295 or concrete to BS EN 1916 and BS 5911: Part 1 with Class 3 bedding unless otherwise stated. With approval of the Adopting Authority solid wall concrete external rib reinforced uPVC pipes complying with the relevant provisions of BS EN 13475 may be used.
 - Where cover to a pipe is more than 1200mm under adoptable carriageway the trench shall be filled to formation of the carriageway with well compacted C1P Type 1 material.
 - Where cover to a pipe is less than 1200mm under adoptable carriageway it shall be provided with concrete protection in accordance with the specification of the adopting authority and back filled to formation of the carriageway with well compacted C1P Type material. Where concrete bed and surround is specified flexibility of joints is to be maintained by using compressible bitumen impregnated fibreboard at each pipe joint.
 - All existing drainage invert levels, diameters and locations are to be checked by the Contractor prior to the commencement of any proposed drainage work. Any difference between actual and drawn details is to be reported to the Engineer immediately.
 - Positions of existing services/utility underground apparatus adjacent to or crossing proposed sewers is to be checked by the Contractor prior to starting work.



CONSTRUCTION

Please note while these drawings may be used for tender purposes, drawings are subject to Thames Water approval as part of ongoing consultations and design check. Amendments may therefore be requested.

Rev.	Description	Date	By
H	Drawing title amended	07.04.17	DM
G	S104 easement boundary amended to suit client comment	10.03.17	LJ
F	PH1 48-53 cycle store moved to accommodate retaining wall	03.03.17	TB
E	Hydroslide proposed instead of Hydrobrake, references to second phase removed & discharge rate of phase 1 5:1 in specified water levels & discharge rates amended to suit	08.12.16	LJ
D	Top pond removed from drainage strategy S104 plan amended to suit, private soakaway positions revised at request of client.	05.10.16	LJ
C	S104 plan has been amended to suit revised drainage strategy using two ponds as means of storage adoptable drainage has been amended to suit.	23.08.16	LJ
B	S24-208 amended to suit as-built highway drainage and manholes renumbered to suit the addition of new manhole.	10.06.16	LJ
A	S104 drainage amended to suit new drainage strategy, layout changes and client comments.	31.07.16	LJ
-	Final issue	04.06.16	LJ

Client

Project

**Cotefield Farm
Bodicote**

Title

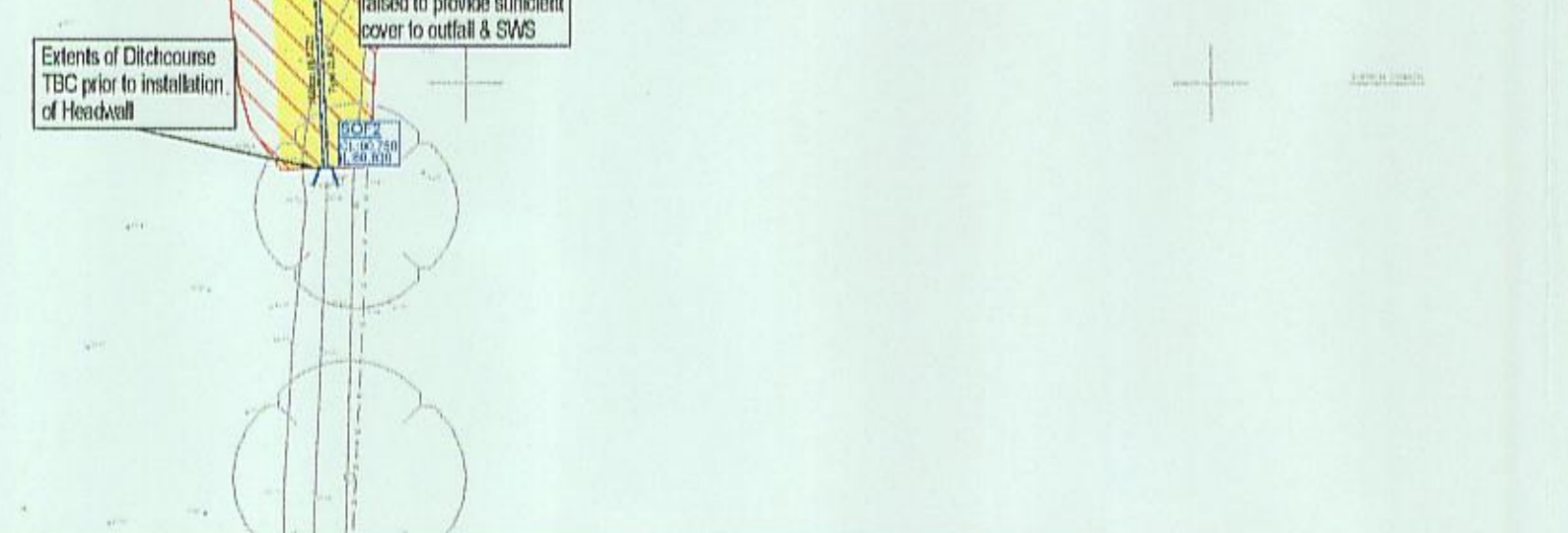
**Drainage Plan
Sheet 2 of 2**

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Scale	1:500 @ A1	Drawn	LJ
Date	June 2016	Checked	JB
File	15031/dwgs/civils/current	Drawing	15031 - 100S104 (ii) H

SECTION 104 LEGEND:

- Proposed S104 Storm Sewer & MH.
- Proposed S104 Foul Sewer & MH.
- Proposed S104 Hydroslide Chamber.
- Proposed S36 Storm Sewer & MH.
- Proposed S36 Gully & Connection.
- Existing Infrastructure Foul Sewer.
- Proposed S104 Drainage Easement.
- Ground profile to be Raised Locally to Provide Sufficient Cover.
- Boundary of Site Ownership TBC.



IL & CL TBC prior to any connection being made
Thames Water to be Notified

Existing Ground profile to be raised by 800mm to provide sufficient cover to proposed MH1 & Outfall.

1m Wide Swale With 1 in 3 Banks

Timber Trip Rail Fence added to section off access to pond, minimum distance 1m away from exterior of ponds

Base of Swale to be lined with Stone Paving to direct flow of water to Alternation Pond

Timber Trip Rail Fence added to section off access to pond, minimum distance 1m away from exterior of ponds

Alternation Pond
Elev Level 97.10
Top of Bank Level 99.85
Water Level in 100yr + 40% Storm 98.25 (based on approximate area of 1.25ha)
Max Volume of Water At Top Water Level 630m³

Total Discharge Rate of 6.1 l/s has been derived from area of 1.250ha using greenfield run-off rate

Emergency Spillway level to be set at 99.75 to provide route of run-off in the event Control Chamber fails, to be lined with Reno Mattress (for Specific detail refer to dwg no 15031 - 317)

Max Top of Embankment Level 99.85