

NB
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION
PURPOSES.
DETAILS ON THIS DRAWING ARE INDICATIVE AND USED FOR
DRAINAGE STRATEGY PURPOSES ONLY.
FULL DESIGN DETAILS WILL BE REQUIRED FOR TECHNICAL
SUBMISSIONS TO THE RELEVANT AUTHORITIES

1. Drainage design and construction is in accordance with Sewerage Guideline and any additional requirements of United Utilities.
2. All SVP, RWP and BIG connections are inductive and must be cross referenced with architect drawings.
3. Pipes gradient out of building to connecting manhole to be laid on 1:4 in accordance with Part 6 of the 2015 Building Regulations. All inlets to SVP and RWP buildings must be 750mm in accordance with Building Regulations.
4. Tolerances to be in accordance with SSG Clause 6.5.9.
5. All rocker joints to be in accordance with SSG Clause 6.6.2 and Table 6.1.
6. Engineering bricks must not contain holes or sockets.
7. Brickwork to manholes to be English bond.
8. Where pipes surrounded in concrete, flexibility to be maintained at pipe joints by the use of suitable compressible material e.g. 'Flexcell' or 'Flexseal'.
9. All manhole covers and frames must comply with BS EN124. Covers in roads to be Grade D400 and 150mm deep. Manhole covers in footpaths and other areas to be Grade A15. All to be laid in accordance with Part H of Building Regulations 2015.
10. All incoming pipes that will be surrounded with 150mm of concrete to the top of the outlet of the first free fall pipe and the outgoing pipe to also be surrounded within 50mm of the first free fall pipe to a depth of a reasonable life used or a former between the concrete surround and downstream pipe collar.
11. All underground services to be confirmed by contractor prior to commencement on site. Any discrepancies to be reported to engineer, as soon as possible.
12. Private sewers not located in roads to be Class A granular bed and standard class 2 manholes.
13. Sewers located under adopted roads to be Class 5 granular bed and surround (more than 1.2m cover).
14. Sewers located under private roads and car parking bays to be Class F granular bed and surround up standard details unless adopted.
15. Private sewers with less than 0.6m cover, provide Class 2 concrete cover and surround. Concrete surrounding may be omitted for larger diameter storage sewers. Granular bed must be sought from adopting authority prior to use.
16. No deep or wide routed lines to be planned within close proximity of the ground surface existing public service lines.

Proposed Cellular Storage
Storage volume - 57m³.
3no. layers of 400mm deep units.
Overflow 3750 l/s: 36.65m AOD

Cells
CL: 38.377 m AOD
IL: 36.030 m AOD
Length x Width x Depth = 5m x 10m x 1.2m
Unit Cell Size = 1.0m x 0.5m x 0.4m

004
Adoptable Surface water network

004
Adoptable Surface water network

004
Adoptable Surface water network

004
Adoptable Surface water network

004
Adoptable Surface water network

005
Adoptable Surface water
gully connections

UU Vehicle can park here
and follow shown route to
access to the headwalls

Snape Gate
Barn

UU Vehicle can use this 3m footpath to gain access to the headwalls

Forebay and berm to be maintained privately

UU Vehicle can park here
and follow shown route to
access to the headwalls

UU Vehicle can use this 3m footpath to gain access to the headwalls

001
Surface water inlet headwal

002	Surface water inlet headw	118.472
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Forebay and berm to be maintained privately

003	Surface water inlet headwall
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Headwall to be maintained privately

Hydrobrake to be maintained privately

Attenuation Basin to be maintained privately

007 - Hydrobrake to be adopted by UU

006
Surface water outlet headwall

Attenuation Basin to be maintained privately

Forebay and berm to be maintained privately

B

KEY	
	PROPOSED SURFACE WATER SEWERS PHASE 1
	PROPOSED FOUL WATER SEWERS PHASE 1
	PROPOSED FOUL WATER SEWERS UNITED UTILITIES
	PROPOSED HIGHWAY DRAINAGE PHASE 1
	PROPOSED FOUL WATER RISING MAIN PHASE 1
	EXISTING SURFACE WATER SEWERS
	EXISTING FOUL WATER SEWERS
	EXISTING POND DRAINAGE (LINKS BETWEEN PONDS TO BE RETAINED OR RE-LAID)
	PROPOSED POND DRAINAGE
	EXISTING POND DRAINAGE TO BE ABANDONED

NOTE
DETAILS ON THIS DRAWING ARE SUBJECT
TECHNICAL APPROVALS

Mark	Date	Details	By
E	25.08.22	Amended to suit S1.2348 being adapted	NIR
D	22.11.22	Added 300mm bund and added keystone to the attenuation basin	NIR
C	25.10.22	S1.10 backdrop removed, MH CL3 on Road 7 amended	NIR
B	04.08.22	Amended to suit for comments	NIR
A	17.02.21	Issued for initial comments	NIR

Revision history



Taylor Wimpey

Project title:

Halsnead Garden Centre
Whiston

Drawing Title:

Main Drainage Layout
SuDS Maintenance and
Management Plan

Scale: 1:500 for the original size of A0

Drawn by: NR	Checked by:	Passed by:	Date: 22.01.21
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Drawing status: Preliminary

Job No:	Drawing No:							Revision:
	Project	Origin	Volume	Level	Type	Discp.	Number	
TAY90	XXXX	BET	XX	XX	DR	C	1028	E

Do not scale this drawing

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