

PHASE: 0 (PRIVATE)

MH No.	MANHOLE DIMENSION (mm)	MANHOLE TYPE	COVER TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)
PS1	250Ø	250 Inspection		18.150	17.603	0.447	4060884.402	926236.028
PS2	250Ø	250 Inspection		18.150	17.524	0.526	4060891.390	926232.405
PS3	250Ø	250 Inspection		18.150	17.471	0.579	4060888.921	926227.644
PS4	450Ø	450 Inspection		18.150	17.430	0.620	4060892.497	926225.789
PS5	450Ø	450 Inspection		18.150	17.287	0.763	4060885.905	926213.076
PS6				18.150	17.240	0.810	4060890.073	926210.880
PS7				18.150	17.240	0.810	4060898.951	926206.276
PS8	450Ø	450 Inspection		18.150	17.225	0.825	4060900.311	926205.571
PS9	---	HEADWALL		18.150	17.170	0.880	4060905.173	926203.023
PS10	250Ø	250 Inspection		18.150	17.463	0.587	4060873.164	926212.964
PS11	450Ø	450 Inspection		18.150	17.384	0.666	4060880.966	926211.925
PS12	450Ø	450 Inspection		18.150	17.331	0.719	4060880.258	926206.608
PS13	450Ø	450 Inspection		18.150	17.290	0.760	4060884.251	926206.076
PS14	450Ø	450 Inspection		18.150	17.250	0.800	4060888.245	926205.491
PS15	450Ø	450 Inspection		18.150	17.220	0.830	4060898.212	926200.322
PS16	---	HEADWALL		18.150	17.170	0.880	4060902.608	926198.043
PS17	450Ø	450 Inspection		18.150	17.430	0.620	4060882.411	926192.267
PS18	250Ø	250 Inspection		18.150	17.543	0.507	4060871.226	926193.758
PS19	450Ø	450 Inspection		18.150	17.398	0.652	4060876.067	926218.178

ATTENUATION	AT-01
Lowest Cover Level (m)	18.150
Level top of Cells (m)	17.640
Base level of Cells (m)	17.240
Pipe invert (m)	17.240
Contributing area (m2)	340
Dimension on Plan (m)	10x10.0x0.4(d)
Cell Thickness (m)	0.4
Void Space (%)	95
Maximum Storage Volume (m3)	38

ATTENUATION	AT-02
Lowest Cover Level (m)	18.150
Level top of Cells (m)	17.640
Base level of Cells (m)	17.240
Pipe invert (m)	17.240
Contributing area (m2)	420
Dimension on Plan (m)	10x10.0x0.4(d)
Cell Thickness (m)	0.4
Void Space (%)	95
Maximum Storage Volume (m3)	38

North Arrow

N
W E
S

NOTES

1. The contractor shall check all tie-ins for line and level with existing before commencing any works. The Engineer shall be notified immediately, in writing, should any errors be found.
2. Any discrepancies, of whatever nature, must be reported to the Engineer prior to the commencement or continuance of any further works.
3. All private drainage works to be in accordance with the requirements of Building Regulations 2010, Part H, "Drainage and waste disposal", (01st October 2015).
4. All pipes to be bedded and backfilled in accordance with Part H, Diagram 10. Shallow pipes shall be protected in accordance with Part H, Diagram 11.
5. Unless otherwise stated, all private drainage to be 100mm diameter. Gradients have been shown where there are pipe capacity issues and these should be regarded as minimums. Unless there are constraints dictating otherwise, gradients shall generally be 1 in 60. 100mm diameter pipes shall not be laid flatter than 1 in 80, 150mm diameter pipes shall not be laid flatter than 1 in 150.
6. All pipes, chambers and fittings to be installed strictly in accordance with the manufacturers instructions.
7. Pipes which run adjacent to buildings shall be installed in strict accordance with Part H, Clauses 2.23 to 2.25 and Diagram 8.
8. All private manholes, inspection chambers and drainage channels to comply with BS EN124. Cover strengths to be:
   Class D400 in heavy trafficked areas (access roads, service yards etc.)
   Class C250 in lightly trafficked areas (car parks, driveways etc)
   Class B125 in Non trafficked areas
   Class A15 in landscaping areas
9. All drains in the vicinity of existing or proposed trees to be constructed in accordance with the requirements of NHBC Practice Note 3.
10. Private drainage frames must be tied to manhole risers by use of manufacturers ties (e.g. Polypipe ref. FRK500 fixing kit and FRK501 black ties.) The ground works contractor will be held fully responsible for any accidents due to incorrect fitting or failure to use the correct manufacturers fixing equipment.
11. All existing land drains encountered on site during construction to be re-connected.
12. Should any departure from the slab level be considered, agreement shall be sought from the Engineer immediately and prior to commencement or continuance of any works, and should take full account of all restrictions to the slab level.
13. All dimensions in metres unless otherwise stated.
14. As underlying ground conditions may be variable across the site the Contractor shall undertake onsite porosity tests at the location and depth of each soakaway. Tests should be undertaken in accordance with BRE365 and results forwarded to the Engineers to allow verification of designs.
15. All existing services, sewers and drains indicated on this drawing and any other related drawings are shown only indicatively, and shall have their positions and level confirmed on site by the Contractor.
16. The invert levels of all existing sewers, drains, ditches, tanks or other features and apparatus where a new connection is to be made shall have their precise position and level confirmed on site by the Contractor prior to commencement of any construction work. The results of the investigations shall be confirmed to MTC Engineering (Cambridge) Ltd so that the design can be verified.

Private Drainage Key

- Foul Inspection Chamber (Depth <0.6m [1 side connection])
- Foul Inspection Chamber (Depth <1.2m [2 side connections])
- Storm Inspection Chamber (Depth <0.6m [1 side connection])
- Storm Inspection Chamber (Depth <1.2m [2 side connections])
- 100Ø Perforated Collector Pipe
- 65.550 0.05m CONTOUR INTERVAL
- 65.500 0.25m CONTOUR INTERVAL
- +82.6 EXISTING GROUND LEVEL

Surface Water Attenuation

POLYSTORM-R (PSM1) Cellular Storage Storm Water Management System
Cellular storage tanks suitable for vehicular loading (where applicable) with 95% voids wrapped in an impermeable geo-membrane.

Permeable Driveway
Minimum 400mm Type 3 aggregate laid in layers not exceeding 100mm thick, each layer to be well compacted.

PRELIMINARY DESIGN
NOT FOR CONSTRUCTION

REV	DATE	DESCRIPTION/REASON FOR ISSUE	APPR
A	10.03.26	SURVEY ADDED	JTC

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PROJECT
Land East of North Road, Alconbury, Cambridgeshire

TITLE
Proposed Drainage Plan

ORIG	DATE
JTC	08.12.2025
CHKD	SCALE 1:200 @ A1
APPR	DRAWING NO 2358-04 REV A

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