

Let's develop
Your Tomorrow
Today

19045 – Edge Lane, Openshaw Site Maintenance Plan

Revision E – Attenuation Tank photographs added

Prepared for Lovell

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Proposed drainage system:

The surface water from each dwellings discharges into two separate pipe networks and gravitate towards two control chambers which restrict the outgoing flows to an approved discharge rate.

Two cellular storages are used adjacent to the control chambers to store excess flow from rainfall event of 1 in 30 to 1 in 100 (plus 40% climates change).as a means of storing the exceedance flow.

Surface water drainage (blue) and foul water drainage (Brown) as shown on the drawing ELL-19045-YH-B-180-H are to become public sewer and to be maintained by united utilities as part of section 104 adoption agreement. The adopted manholes in these drawings are also scheduled on drawing ELL-19045-YH-B-220-H which gives the details of the manhole structures.

The remaining drainage which are located within the privately purchased dwelling boundaries are classed as private drainage and will be maintained by the purchasers.

The properties which are to be remained under Your Housing ownership will be maintained by the management company which will be appointed by Your Housing.

The cellular storage units are also to be maintained by a management company appointed to ensure the drainage system and cellular storage tank inlets & outlet pipework remain clear at all times and remain operational.

The table below presents management activities in order to meet the aim & objectives outlined above.

Cellular Storage operations and maintenance requirements

Maintenance	Required Action	Frequency
Regular maintenance	Inspection and identifying of any areas that are not operating correctly and taking remedial actions when necessary	Monthly
	Inspect all inlet and outlets and silt traps and clear silts and debris Inspect Vents and repair as necessary	Monthly
	Inspect condition of cellular storage tank and carry out maintenance to accordance with the supplier's recommendations. Inspect Vents and repair as necessary	Monthly
Remedial work	Inspect and repair all inlets and outlet pipes to the cellular storage tank	As required (tasks to repair problems due to damage)
	Inspect Vents and repair as necessary	As required (tasks to repair problems due to damage)
	Reinstatement following pollution incident	As required (tasks to repair problems due to damage)
	Removal of silt buildup	As required (tasks to repair problems due to damage)

Operations and maintenance requirements for private surface and foul water drainage to include manholes and pipes (Excluding the drainage within building curtilage)

Maintenance	Required Action	Frequency
Regular maintenance	Inspection and identifying of any areas that are not operating correctly and taking remedial actions when necessary	Monthly
	Debris and Grass removal from catchment surface, Inspect inspection chamber, silt traps and clear silts and debris	Monthly
Occasional tasks	Inspect inspection chambers, drainage channels, gullies, silt traps and clear silts and debris	Annually
Remedial work	Review and repair / replace any gullies and / or Aco drains due to wear and tear	As required

NOTES:

1. ALL ADAPTABLE DRAINAGE WORKS HAVE BEEN DESIGNED AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH "SEWERS FOR ADoption 8TH EDITION" AND UU SUPPLEMENT GUIDELINES AND STANDARD DETAILS
2. ALL CLAY PIPE WORK SHALL BE EXTRA STRENGTH CLAYWARE TO B.S EN 295:1991 PART 1

3. ALL PRECAST CONCRETE PIPEWORK SHALL BE TO THE CLASS STATED ON THE DRAWINGS IN ACCORDANCE WITH B.S EN 1916-2002. ALSO, ALL MANHOLES AND CHAMBERS SHALL BE TO B.S EN 1917-2002

4. THE CONTRACTOR MAY ELECT TO USE REINFORCED PVC PIPES AS COVERED BY B.S 4650-2000 & B.S EN 1401-1. STRUCTURED WALL UPVC PIPES TO COMPLY WITH WIS 4-35-01 UPTO AND INCLUDING 3000MM. (BY PRIOR AGREEMENT WITH ADOPTING AUTHORITY) MAX. PIPE LENGTH TO BE 3.0M

6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS

7. PLOT DRAINAGE CONNECTIONS TO SEWERS MUST BE 150MM DIAMETER AND UNLESS OTHERWISE STATED LAD TO THE INVERT SHOWN.

8. LEVELS GIVEN ON DRAUGHT CHAMBERS ARE INCOMING

PIPE LEVELS

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY EXISTING INVERT LEVELS AND EXISTING SITE LEVELS (EXISTING BOUNDARY LEVELS) INDICATED ON DRAWINGS ARE CORRECT BEFORE WORKS COMMENCE.

11. ALL CONNECTIONS TO ADAPTABLE SEWERS SHALL BE MANUFACTURED JUNCTION PIPES. SADDLE CONNECTIONS WILL NOT BE PERMITTED, UNLESS SPECIFIED.

13. ANY SEWER FOR ADOPTION WITH LESS THAN 1.2M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE CLASS 5 GRANULAR BED AND SURROUND.

MINIMUM OF 150MM ST4 CONCRETE SURROUND, FLEXIBILITY SHALL BE MAINTAINED BY THE PROVISION OF FLEXCELL OR SIMILAR APPROVED JOINT FILLER BREAKS IN THE CONCRETE SURROUND AT EACH PIPE JOINT

14. IT IS THE RESPONSIBILITY FOR THE CONTRACTOR TO CHECK ALL ONSITE EXISTING GROUND LEVELS PRIOR TO COMMENCING AND IF THERE ARE ANY DISCREPANCIES THE CONTRACTOR MUST REPORT TO THE ENGINEER IMMEDIATELY

15. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE DRAINAGE AUTHORITY OF THE COMMENCEMENT OF ANY DRAINAGE WORKS AND TO COMPLETE ANY REQUIRED SEWER CONNECTION FORMS INCLUSIVE OF PAYING ANY REQUIRED FEES. THE CONTRACTOR MUST

16. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ALLOW FOR THE SUPERVISION OF THE SEWER CONSTRUCTION WORKS BY THE LOCAL AUTHORITY AND NOTIFY THE SUPERVISING OFFICER, GIVING NOTICE WHICH IN ACCORDANCE WORTH THE LA REQUIREMENTS.

APPLY FOR ANY REQUIRED ROAD OPENING PERMITS WITH THE LOCAL AUTHORITY INCLUDING THE PAYMENT OF ANY FEES

17. BEFORE COMMENCING ANY WORKS ON SITE, THE

CONTRACTOR MUST CONTACT THE RELEVANT STATUTORY UNDERTAKER AND BE IN POSSESSION OF THE LATEST AVAILABLE DRAWINGS FROM THE STATUTORY UNDERTAKERS WHICH SHOWS DETAILS OF THEIR SERVICES/APPARATUS.

DEPTH OF ANY SERVICE/APPARATUS BY THE USE OF
ELECTROLOCATION OR SIMILAR DEVICES AND BY HAND DUG
TRIAL HOLES.
MECHANICAL EXCAVATOR, POWER TOOLS ETC. MUST NOT
BE USED TO LOCATE EXISTING SERVICE/APPARATUS.

H	MANHOLE F24 DIAMETER HAS BEEN CHANGED TO 15000	22.06.21	AR
G	MANHOLE COVER AND TYPES REVISED TO NEW SITE LEVELS	22.06.21	AR
F	MANHOLE COVER AND TYPES REVISED TO	22.06.21	AR

NEW SITE LEVELS			
E	S13, 14, 24, 26 F2, 4, 5, 6, 14, 20, 21, 23 DIAMETERS REVISED S14, 15 S23 COVER LEVELS REVISED	06.03.21	ARA
D	REFER TO REVISION CLOUD	17.02.21	ARA

C	MANHOLE SCHEDULE REVISED TO SUIT U/I COMMENTS.	11.01.21	ARA
B	MANHOLE SCHEDULE REVISED TO SUIT U/I COMMENTS.	27.10.20	RL
A	MANHOLE SCHEDULE REVISED TO SUIT U/I COMMENTS.	04.09.20	RL

Rev:	Description:	Date:	By: Chk:
PRELIMINARY			

client

YOUR HOUSING

Project: **EDGE LANE
OPENS**

Dog Title:

MANHOLE SCHEDULES

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Dwg No: ELL-19045-YH-B-220									Rev:	H

MANHOLE SCHEDULE NETWORK 2 SOUTHERN CATCHMENT

Turntable Number	Coordinates	Code	Level	Connections	Pins		Manufacture Size	Type
		Turntable Number	Coordinates	Code	Bushes	Pin Amount		
S1	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S2	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S3	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S4	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S5	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S6	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S11	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S12	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S13	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S14	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S15	330444.248	06070	2310					
S16	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
S17	330444.248	06070	2310		1,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE
		330407.046	2306		2,000	80,000	2400	SHALLOW MANHOLE

MANHOLE SCHEDULE NETWORK 1 NORTHERN CATCHMENT

Unwind Number	Constrain	Converge	Core Load Factor	Per Unit Stiff	Core	Code	Feeds	Per Unit Benefit	Material Size	Type
F20	C 1000000.320		0.146	5.76%	0	1.000	88.257	100	1000	1
F21	B 3000000.020		0.146	5.76%	0	1.000	87.405	100	1000	1
F22	C 3000000.020		0.146	5.76%	0	1.000	87.256	100	1000	1
F23	C 3000000.020		0.146	5.76%	0	1.000	87.257	100	1000	1
F24	C 3000000.020		0.146	5.76%	0	1.000	86.256	100	1000	1
S20	C 3000000.020		0.146	5.76%	0	1.000	86.257	100	1000	1
S21	C 3000000.020		0.146	5.76%	0	1.000	86.257	100	1000	1
S22	C 3000000.020		0.146	5.76%	0	1.000	86.257	100	1000	1
S23	C 3000000.020		0.146	5.76%	0	1.000	86.257	100	1000	1
S24	C 3000000.020		0.146	5.76%	0	1.000	86.257	100	1000	1
S25	C 3000000.020		0.146	5.76%	0	1.000	86.257	100	1000	1
S26 CONTROL NUMBER	C 3000000.020		0.146	5.76%	0	1.000	86.257	100	1000	1
S27	C 3000000.020		0.146	5.76%	0	1.000	87.260	100	1000	1
S30	C 3000000.020		0.146	5.76%	0	2.000	88.255	100	1000	1

Photographic Evidence of Drainage Construction































