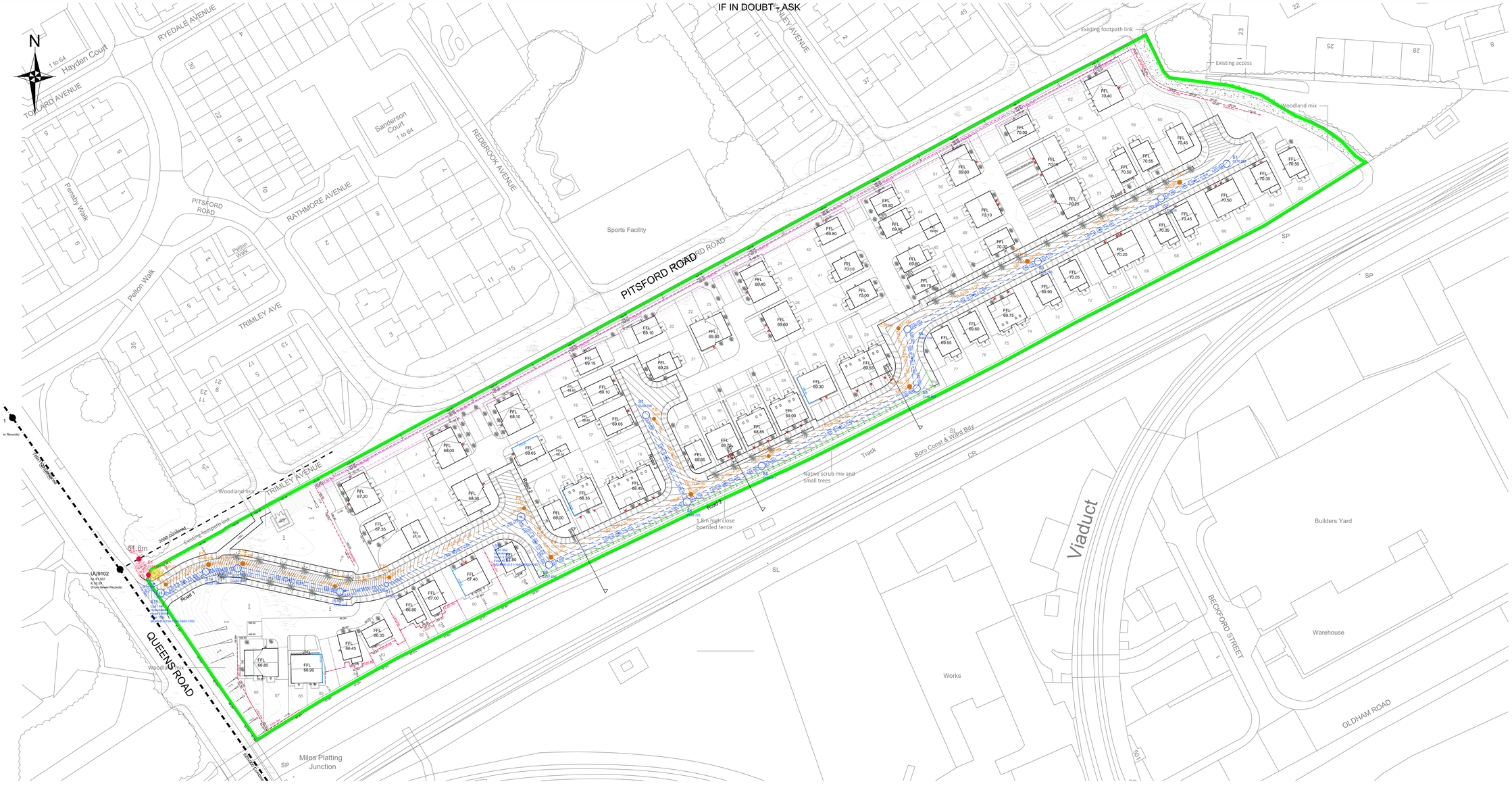
IF IN DOUBT - ASK



Notes

This drawing is to be read in conjunction with the construction (Design and Management) regulations 2015.
To be read in conjunction with Lees Roxburgh drawing series 6710

Surface Water

Design based on the following Criteria:

Climate Change - 45%
Urban Creep - 10%
Winter Cv - 0.84
Summer Cv - 0.75
Runoff - 15 l/s

Surface water to connect to existing 300Ø combined network within Trimley Avenue. Attenuation volumes up to and including 1:100yr+45% Climate Change event and additional 10% allowance for Urban Creep to be contained in online piped network. Flows to be restricted to 15l/s, controlled by hydrobrake.

Foul

Foul to drain connect to existing 300Ø combined within Trimley Avenue.

Notes

Existing drainage to be surveyed. Connection depth to be reviewed on receipt of survey.

Rates and connection to 300Ø combined within Trimley Avenue agreed with United Utilities following Pre Development Enquiry.

Levels subject to review /comments and cut fill modeling results by third party.

This design is **PRELIMINARY** and subject to detailed design development and comment by all adopting authorities. Additional information and comments to be reviewed and incorporated into design as required.

KEY

EXISTING COMBINED SEWER	
PROPOSED SURFACE WATER SEWER	
PROPOSED FOUL WATER SEWER	
PROPOSED COMBINED SEWER	
PROPOSED FINISHED FLOOR LEVEL	FFL 21.10
INDICATIVE UNDERBUILD (min shown 300mm)	
INDICATIVE TANKING	
RETAINING WALL	
LOCK AND LOAD RETAINING WALL	
1:3 BATTER	
EASEMENT	
TRIEF KERB	

NOTES

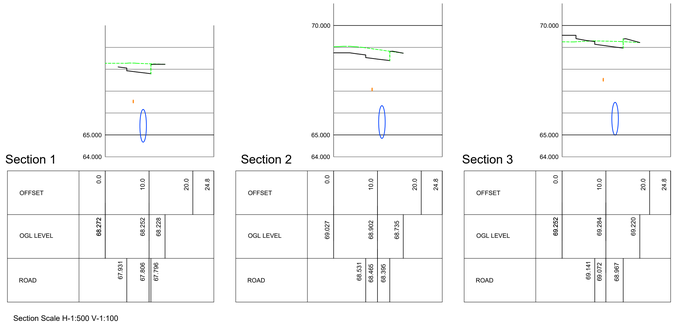
ALLOW FOR GULLIES AT 20M INTERVALS. DOUBLE GULLIES TO BE LOCATED AT ROAD LOW POINTS

STORM Network 1

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Pipe Length	Upstream Manhole Number	Upstream Manhole Invert	Upstream Manhole Cover	Downstream Manhole Number	Downstream Manhole Invert	Downstream Manhole Cover
1.000	1500	400	CONC	25.067	S1	65.358	70.293	S2	65.295	70.208
1.001	1500	400	CONC	46.811	S2	65.295	70.208	S3	65.178	69.743
1.002	1500	400	CONC	49.665	S3	65.178	69.743	S4	65.054	69.324
1.003	1500	400	CONC	20.295	S4	65.054	69.324	S5	65.003	68.992
1.004	1500	400	CONC	58.640	S5	65.003	68.992	S6	64.857	68.511
1.005	1500	400	CONC	27.999	S6	64.857	68.511	S8	64.787	68.225
1.006	1500	401	CONC	51.289	S8	64.787	68.225	S9	64.659	67.635
1.007	1500	400	CONC	18.672	S9	64.659	67.635	S10	64.612	67.802
1.008	225	65	ESVC	50.960	S10	64.612	67.802	S11	63.828	66.277
1.009	225	21	ESVC	15.873	S11	63.828	66.277	S12	63.072	65.248
1.010	1200	400	CONC	35.499	S12	59.199	65.248	S13	59.110	62.898
1.011	1200	400	CONC	10.805	S13	59.110	62.898	S14	59.083	62.194
1.012	1200	400	CONC	16.959	S14	59.083	62.194	S15	59.041	61.441
1.013	300	245	ESVC	7.379	S15	59.041	61.441	C1	59.011	61.926
1.014	300	130	ESVC	6.288	C1	59.011	61.926	C2	58.962	61.727
2.000	1500	401	CONC	32.464	S7	64.868	68.788	S8	64.787	68.225

FOUL Network 1

Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Type	Pipe Length	Upstream Manhole Number	Upstream Manhole Invert	Upstream Manhole Cover	Downstream Manhole Number	Downstream Manhole Invert	Downstream Manhole Cover
1.000	150	60	ESVC	57.986	F1	68.950	70.336	F2	67.984	69.754
1.001	150	135	ESVC	49.127	F2	67.984	69.754	F3	67.620	69.390
1.002	150	135	ESVC	20.068	F3	67.620	69.390	F4	67.471	69.050
1.003	150	135	ESVC	53.143	F4	67.471	69.050	F5	67.078	68.598
1.004	150	135	ESVC	29.287	F5	67.078	68.598	F7	66.861	68.292
1.005	150	100	ESVC	51.883	F7	66.861	68.292	F8	66.342	67.699
1.006	150	135	ESVC	18.845	F8	66.342	67.699	F9	66.202	67.911
1.007	150	22	ESVC	51.260	F9	66.202	67.911	F10	63.872	66.381
1.008	150	22	ESVC	18.617	F10	63.872	66.381	F11	63.026	65.147
1.009	150	20	ESVC	32.097	F11	63.026	65.147	F12	61.421	62.988
1.010	150	20	ESVC	11.568	F12	61.421	62.988	F13	60.843	62.276
1.011	150	14	ESVC	15.917	F13	60.843	62.276	F14	59.706	61.531
1.012	150	12	ESVC	6.773	F14	59.706	61.531	C1	59.160	61.926
1.013	300	130	ESVC	6.288	C1	59.010	61.926	C2	58.962	61.727
2.000	150	54	ESVC	28.385	F6	67.385	68.813	F7	66.861	68.292



Section Scale H-1:500 V-1:100

Rev	Revision	By	Date
J	Updated to layout PL01 Planning Layout Rev D	AN	16.06.24
H	Updated to layout PL01 Planning Layout Rev A	CB	13.06.24
G	Updated Layout Rev N. Road 1 levels updated to comments.	CB	08.04.24
F	Updated to revised layout, trief berb added, access revised to 1:15	CB	19.03.24
E	Network Rail Access to remain, wall updated. Lock and Load wall added	CB	09.02.24
D	Revised to layout Rev G	CB	12.01.24
C	Rates and outfall location amended. Levels raised	CB	06.12.23
B	Top of wall amended batter amended	CB	14.11.23
A	Northern batter amended from 1:1 to 1:3. Additional wall shown	CB	09.11.23

Bellway
(MANCHESTER)
(a member of Bellway Plc Group of Companies)
Bellway Homes Ltd
304 Bridgewater Place, Birchwood
Warrington, Cheshire. WA3 6XG

Pitsford Road
Manchester

Preliminary Drainage and Levels Layout

Lees Roxburgh
Consulting Engineers
The Genesis Centre
Science Park South
Birchwood
Warrington
WA3 7BH
01925 812898
office@leesroxburgh.co.uk
www.leesroxburgh.co.uk

Job No.	Drawing No.	Revision.
6710	01-01	J

Scale 1:500@A0 | Date November 2023

Drawn By	Designed By	Checked By
CB	CB	