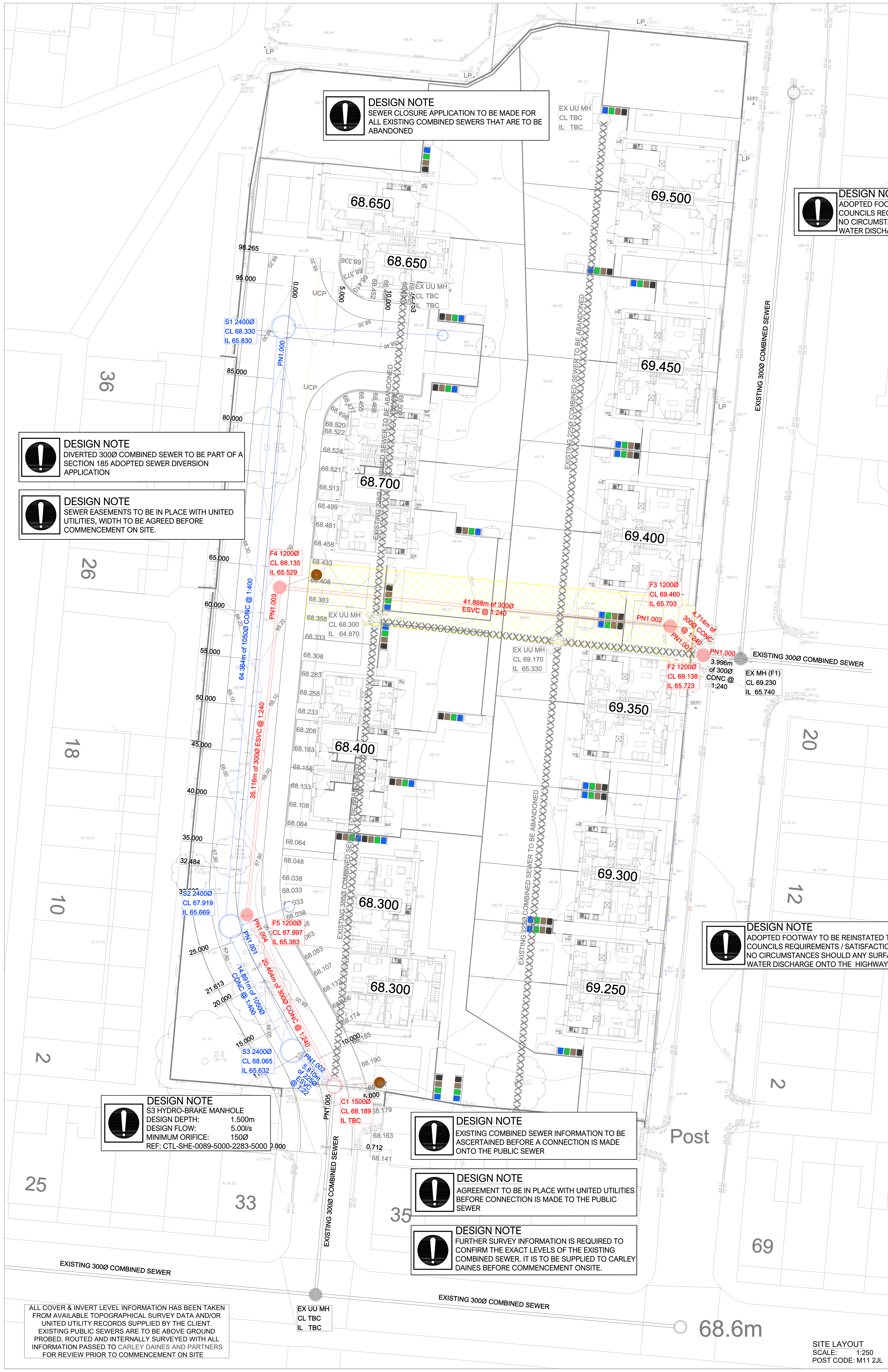
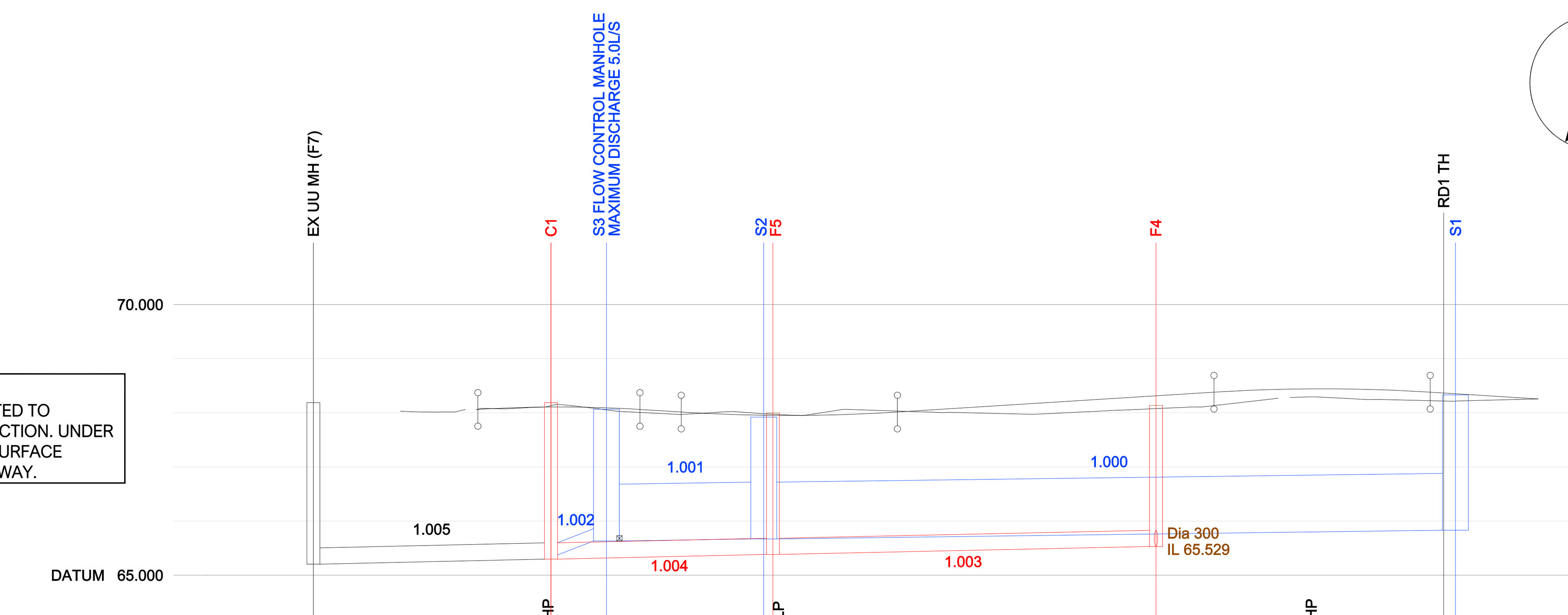
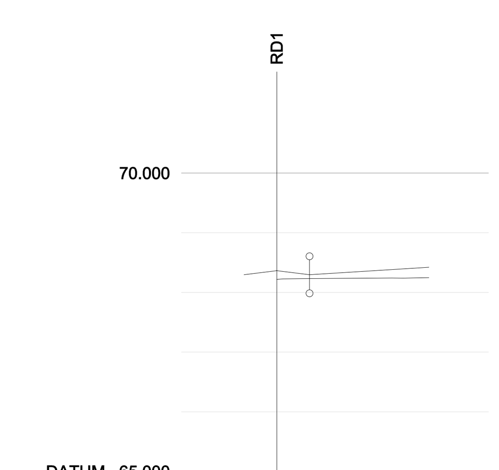


RD1



CHAINAGE	-15.066, 0.000, 0.151, 0.712, 6.915, 7.651, 10.000, 11.282, 12.046, 15.151, 18.965, 20.000, 21.613, 26.599, 27.447, 28.965, 30.000, 32.484, 38.965, 40.000, 50.000, 60.000, 62.895, 68.265, 70.000, 78.265, 80.000, 88.265, 89.515, 90.000, 90.600, 98.265
EXISTING GROUND LEVEL	68.060, 68.105, 67.980, 67.949, 68.026, 67.978, 68.051, 68.172, 68.269, 68.216, 68.255
ALIGNMENT LEVEL	68.060, 68.062, 68.108, 68.104, 68.062, 68.014, 68.002, 67.951, 67.952, 68.014, 68.027, 68.152, 68.277, 68.380, 68.400, 68.443, 68.441, 68.380, 68.358, 68.255
VERTICAL ALIGNMENT	G= 1.250% 1: 80.0; L= 15.000 KF= -6.0; G= -1.250% 1: -80.0; KF= 8.0 L= 20.000; G= 1.250% 1: 80.0; L= 20.000 KF= -8.0; G= -1.250% 1: -80.0
HORIZONTAL ALIGNMENT	R= 17.750; R= 17.796
STORMWATER COVER LEVEL	68.189, 68.065, 67.919, 68.330
STORMWATER INVERT	65.373, 65.632, 65.632, Pipe 1.001 Dia 1050 Circular CONC 1 in 400 14.891, 65.669, 65.669, Pipe 1.000 Dia 1050 Circular CONC 1 in 400 64.364, 65.830
FOULWATER COVER LEVEL	68.189, 68.189, Pipe 1.002 Dia 225 ESVC 1 in 22 5.810, 67.997, 68.135
FOULWATER INVERT	65.205, Pipe 1.005 Dia 300 CONC 1 in 240 22.369, 65.298, 65.298, Pipe 1.004 Dia 300 CONC 1 in 240 20.464, 65.383, 65.383, Pipe 1.003 Dia 300 CONC 1 in 240 35.116, 65.529

RD1 TH



CHAINAGE	0.000	2.750	10.000	12.753
EXISTING GROUND LEVEL	68.218		68.241	68.247
ALIGNMENT LEVEL		68.296	68.386	68.421
VERTICAL ALIGNMENT		G= 1.250% 1: 80.0		
HORIZONTAL ALIGNMENT				

MANHOLE SCHEDULE

Sheet 1 of 1

Manhole Number / Coordinates	Cover Level / Depth To Soffit	Connections	Pipe Code	Pipe Inverts	Pipe Diams	Manhole Size	Types Manhole	Types Cover
F1 E. 388256.056 N. 397797.421	69.130 / 3.090	0	0: 1.000	65.740	300	1200	1	D400
F2 E. 388252.077 N. 397797.793	69.138 / 3.115	1, 0	1: 1.000; 0: 1.001	65.723; 65.723	300; 300	1200	1	D400
F3 E. 388248.525 N. 397800.892	69.460 / 3.457	1, 0	1: 1.001; 0: 1.002	65.703; 65.703	300; 300	1200	1	D400
F4 E. 388206.862 N. 397805.033	68.135 / 2.306	1, 0	1: 1.002; 0: 1.003	65.529; 65.529	300; 300	1200	3	D400
F5 E. 388203.392 N. 397770.089	67.997 / 2.314	1, 0	1: 1.003; 0: 1.004	65.383; 65.383	300; 300	1200	3	D400
C1 E. 388212.665 N. 397751.846	68.189 / 2.591	1, 0	1: 1.004; 0: 1.005	65.298; 65.298	300; 300	1200	3	D400
EX MH (F7) E. 388210.694 N. 397729.564	68.189 / 2.684	1	1: 1.005	65.205	300	1200	3	D400
S1 E. 388206.910 N. 397832.859	68.330 / 1.450	0	0: 1.000	65.830	1050	2400	4	D400
S2 E. 388201.237 N. 397768.746	67.919 / 1.200	1, 0	1: 1.000; 0: 1.001	65.669; 65.669	1050; 1050	2400	4	D400
S3 FLOW CONTROL MH MAX DISCHARGE 5.0L/S E. 388208.231 N. 397755.601	68.065 / 2.208	1, 0	1: 1.001; 0: 1.002	65.632; 65.632	1050; 225	2400	3	D400
C1 E. 388212.665 N. 397751.846	68.071 / 2.473	1	1: 1.002	65.373	225	1500	3	D400

DO NOT SCALE OFF THIS DRAWING
IF IN DOUBT - ASK

KEY

- 100mm Foul drain
- 100mm Surface Water drain
- 150mm Foul drain
- 150mm Surface Water drain
- Foul connection.
- Rainwater downpipe.
- Foul shallow access.
- Storm rodding eye.
- Private foul manhole and drain.
- Private storm manhole and drain.
- Foul manhole over 1.2m deep.
- Storm manhole over 1.2m deep.
- Yard gully (100mm connection).
- Road gully (150mm connection).
- Existing sewer to be abandoned

NOTES

1. ALL ADOPTABLE DRAINAGE WORKS HAVE BEEN DESIGNED AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN AND CONSTRUCTION GUIDANCE.
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 4660:2000 & B.S EN 1401-1. STRUCTURED WALL UPVC PIPES TO COMPLY WITH WIS4-35-01. (BY PRIOR AGREEMENT WITH ADOPTING AUTHORITY) MAX. PIPE LENGTH TO BE 3.0M
5. ALL LEVELS RELATE TO TOPOGRAPHICAL SURVEY DATUM.
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 LAID TO THE INVERT SHOWN.
8. ALL INSPECTION CHAMBERS TO BE 450mm DIAMETER POLYPROPYLENE WITH A MAXIMUM DEPTH OF 1200mm FOR THE STANDARD UNIT & A MAXIMUM DEPTH OF 3000mm WHEN A 350mm REDUCING RING IS USED.
9. ALL PLOT DRAINAGE RUNS TO BE 100mm DIAMETER AT A NOMINAL FALL OF 1:70 UNLESS NOTED OTHERWISE.
10. RODDING EYES AT START OF EACH DRAINAGE RUN.
11. ALLOW FOR 5.0M OF 'ACO' DRAINAGE CHANNEL PER PROPERTY AT HIGHWAY BOUNDARY.
12. SURFACE WATER FROM PLOT PARKING AREAS MUST NOT DISCHARGE ONTO THE HIGHWAY.
13. PLOT DRAINAGE RUNS TO BE KEPT WITHIN THE CURTILAGE OF THE PLOT THEY SERVE WHEREVER POSSIBLE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY EXISTING INVERT LEVELS INDICATED ON DRAWINGS ARE CORRECT BEFORE THE WORKS ARE COMMENCED.
15. ALL CONNECTIONS TO ADOPTABLE SEWERS SHALL BE MANUFACTURED JUNCTION PIPES. SADDLE CONNECTIONS WILL NOT BE PERMITTED, UNLESS SPECIFIED.
16. ALL SEWERS FOR ADOPTION WITH GREATER THAN 1.20M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE CLASS S GRANULAR BED AND SURROUND.
17. ANY SEWER FOR ADOPTION WITH LESS THAN 1.2M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE A 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.
18. 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
19. CONTRACTOR TO CONFIRM THE COVER LEVEL, INVERT LEVEL & MANHOLE SIZE FOR THE EXISTING MANHOLE 5902 PRIOR TO CONTRACT START DATE.
20. THERE ARE A NUMBER OF EXISTING SEWERS & MANHOLES ON THE SITE, WHICH MUST BE ABANDONED BEFORE THE THE FINAL DRAINAGE DESIGN. CONTRACTOR TO PROVIDE ALL NECESSARY INFORMATION IF ANY CHANGES ARE REQUIRED TO THE DRAINAGE LAYOUT.

KEY

1.50 UNILOG	Timber Retaining Wall
1.00 WALL	Brick Retaining Wall
0.45 FLAG	Flag Retaining Wall
0.30 POST & GB	Concrete Post & Gravel Board
0.60 UB	Underbuild
0.60 UB	Tanking
0.60 STEP	Step in Slab
ACO	Aco Drain
STEPS	Steps to Footpath
1:12	Drive/Footpath Gradient
1:10	Garden Gradient
101.15	Existing Ground Level
+102.15	Proposed Ground Level
103.15	FFL
G	Drive Gully
	Filter Trench

REV	DATE	DESCRIPTION
-	24.10.22	INITIAL ISSUE

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TITLE

BRIGHAM STREET OPENSHAW

PROVISIONAL ENGINEERING APPRAISAL

DRAWN	CLYNCH	CHECKED	AMULLIGAN
DATE	OCT 2022	DATE	OCT 2022
SCALE	1:250 @ A1		
DRAWING NO:	21.B.13127-200	REV	-