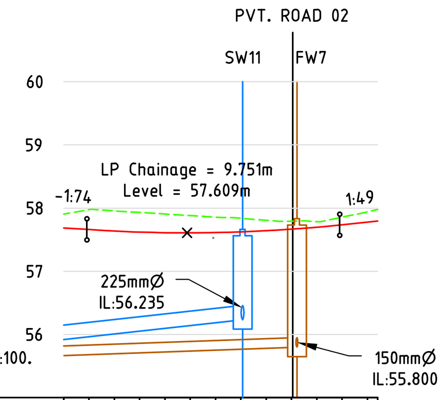
PRIVATE ROAD 03

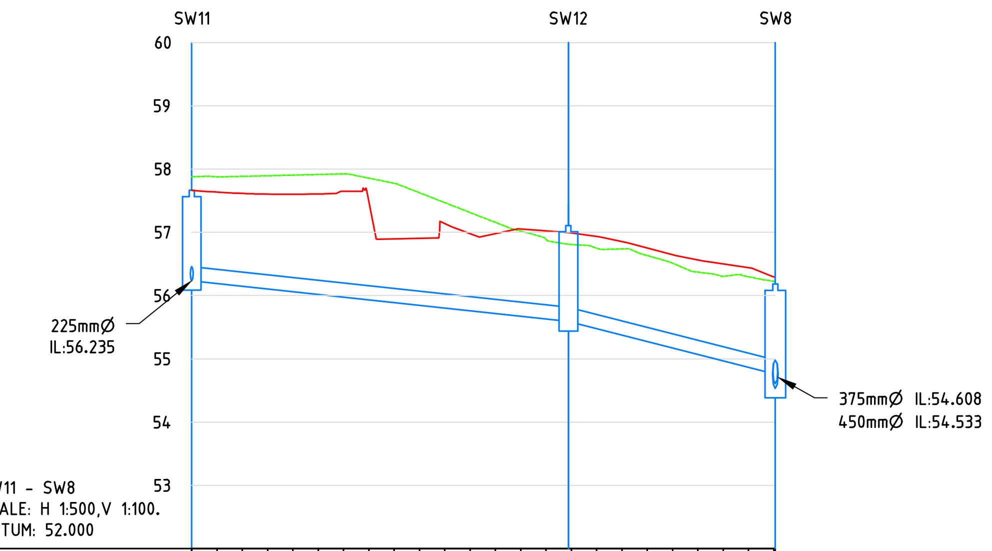


PRIVATE ROAD 03
SCALE: H 1:500,V 1:100.
DATUM: 55.000

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
0.000	57.908	57.687
2.000	57.975	57.660
4.000	57.957	57.637
6.000	57.932	57.621
8.000	57.907	57.611
10.000	57.882	57.609
12.000	57.857	57.613
14.000	57.840	57.624
16.000	57.807	57.642
18.000	57.795	57.667
20.000	57.785	57.699
22.000	57.856	57.737
24.000	57.940	57.778
24.811	57.976	57.795

HORIZONTAL GEOMETRY	G =-1.355% L =2.213; L =24.811
VERTICAL GEOMETRY	R =585.400 K =5.854 L =20.000; G =2.061% L =2.994
SURFACE WATER COVER LEVELS	57.664
SURFACE WATER INVERT LEVELS	55.591; 56.235
SURFACE WATER PIPE DETAILS	Size:225mm Type:Clay Len:29.767m Grad:1:46.21 PN:2.003
SURFACE WATER BED AND SURROUND	Granular class S
FOUL WATER COVER LEVELS	57.832

SW11 - SW8

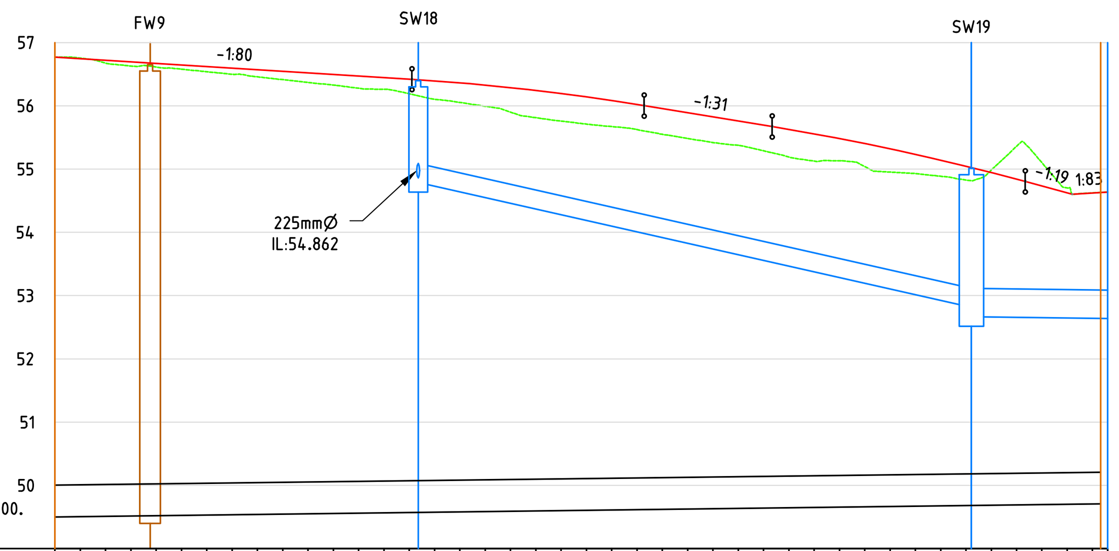


SW11 - SW8
SCALE: H 1:500,V 1:100.
DATUM: 52.000

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
0.000	57.877	57.664
2.000	57.877	57.636
4.000	57.885	57.615
6.000	57.895	57.604
8.000	57.905	57.602
10.000	57.915	57.607
12.000	57.924	57.650
14.000	57.856	57.480
16.000	57.776	56.898
18.000	57.626	56.907
20.000	57.470	57.139
22.000	57.313	56.978
24.000	57.157	56.980
26.000	57.021	57.055
28.000	56.891	57.023
30.000	56.808	56.989
32.000	56.751	56.936
34.000	56.738	56.855
36.000	56.633	56.753
38.000	56.512	56.646
40.000	56.372	56.563
42.000	56.304	56.499
44.000	56.298	56.440
46.118	56.223	56.288

HORIZONTAL GEOMETRY	L =29.760	L =16.358
SURFACE WATER COVER LEVELS	57.644	57.108; 56.184
SURFACE WATER INVERT LEVELS	56.235; 55.591	55.591; 54.758
SURFACE WATER PIPE DETAILS	Size:225mm Type:Clay Len:29.767m Grad:1:46.21 PN:2.003	Size:225mm Type:Clay Len:16.379m Grad:1:19.64 PN:2.004
SURFACE WATER BED AND SURROUND	Granular class S	Granular class S

ROAD 04

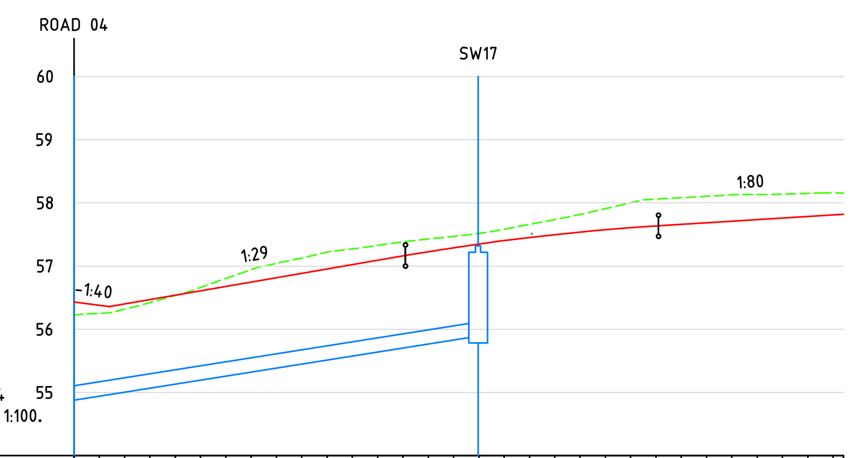


ROAD 04
SCALE: H 1:500,V 1:100.
DATUM: 49.000

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
0.000	56.770	56.770
2.000	56.755	56.745
4.000	56.674	56.720
6.000	56.629	56.695
8.000	56.613	56.670
10.000	56.579	56.645
12.000	56.539	56.620
14.000	56.499	56.595
16.000	56.458	56.570
18.000	56.413	56.545
20.000	56.368	56.520
22.000	56.329	56.495
24.000	56.278	56.470
26.000	56.261	56.445
28.000	56.190	56.420
30.000	56.104	56.394
32.000	56.053	56.362
34.000	55.993	56.327
36.000	55.901	56.287
38.000	55.812	56.242
40.000	55.758	56.194
42.000	55.711	56.140
44.000	55.672	56.083
46.000	55.624	56.021
48.000	55.550	55.955
50.000	55.484	55.890
52.000	55.419	55.824
54.000	55.376	55.759
56.000	55.289	55.693
58.000	55.191	55.627
60.000	55.127	55.557
62.000	55.132	55.482
64.000	55.040	55.403
66.000	54.952	55.320
68.000	54.929	55.232
70.000	54.887	55.141
72.000	54.827	55.045
74.000	54.983	54.944
76.000	55.359	54.840
78.000	55.102	54.732
80.000	54.704	54.624
82.000	54.624	54.622
83.191	54.635	54.637

HORIZONTAL GEOMETRY	L =83.191
VERTICAL GEOMETRY	G =-1.250% L =28.213; R =906.110 K =9.061 L =18.347; G =-3.275% L =10.116; R =940.890 K =9.409 L =19.999; G =-5.400% L =3.718; G =1.199% L =2.799
SURFACE WATER COVER LEVELS	56.397; 55.011
SURFACE WATER INVERT LEVELS	54.787; 52.816; 52.666; 52.602
SURFACE WATER PIPE DETAILS	Size:300mm Type:Concrete Len:43.781m Grad:1:22.19 PN:3.001; Size:450mm Type:Concrete Len:26.069m Grad:1:410.00 PN:3.002
SURFACE WATER BED AND SURROUND	Granular class S; Granular class S
FOUL WATER COVER LEVELS	56.650

PRIVATE ROAD 04



PRIVATE ROAD 04
SCALE: H 1:500,V 1:100.
DATUM: 54.000

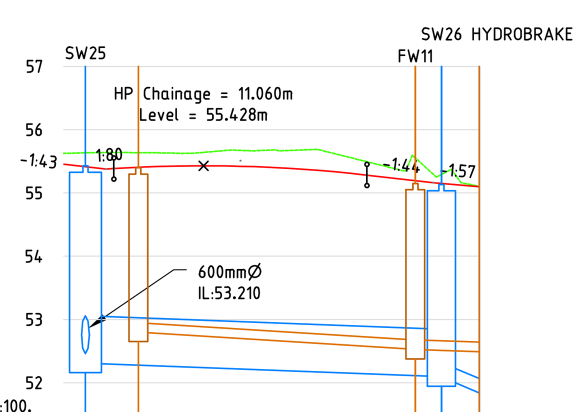
CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
0.000	56.224	56.430
2.000	56.253	56.380
4.000	56.318	56.401
6.000	56.422	56.470
8.000	56.533	56.539
10.000	56.664	56.608
12.000	56.804	56.677
14.000	56.944	56.746
16.000	57.044	56.815
18.000	57.127	56.884
20.000	57.218	56.953
22.000	57.272	57.022
24.000	57.329	57.091
26.000	57.383	57.160
28.000	57.429	57.228
30.000	57.470	57.290
32.000	57.517	57.349
34.000	57.583	57.403
36.000	57.660	57.453
38.000	57.736	57.498
40.000	57.818	57.539
42.000	57.910	57.575
44.000	58.003	57.607
46.000	58.058	57.635
48.000	58.080	57.660
50.000	58.103	57.685
52.000	58.128	57.710
54.000	58.132	57.735
56.000	58.138	57.760
58.000	58.150	57.785
60.000	58.157	57.810
60.821	58.156	57.820

HORIZONTAL GEOMETRY	L =15.955; R: 3.000 L: 1.029; R: 3.000 L: 1.029; L =3.927; R: 5.000 L: 2.085; R: 5.000 L: 2.081; L =4.582; R: 5.000 L: 7.854; L =22.279
VERTICAL GEOMETRY	G =-2.500% L =2.794; G =3.450% L =23.395; R =909.081 K =9.091 L =20.000; G =1.250% L =14.632
SURFACE WATER COVER LEVELS	57.320
SURFACE WATER INVERT LEVELS	54.862; 55.890
SURFACE WATER PIPE DETAILS	Size:225mm Type:Clay Len:32.628m Grad:1:31.72 PN:3.000
SURFACE WATER BED AND SURROUND	Granular class S

NOTES:

1. ALL SEWERS ARE DESIGNED IN ACCORDANCE WITH SEWER SECTOR GUIDANCE V.0.2 AND UNITED UTILITIES GUIDELINES AND STANDARD DETAILS.
2. ALL CO-ORDINATES AND LEVELS SHOWN ARE RELATIVE TO THE TOPOGRAPHIC SURVEY.
3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE LINE AND LOCATION OF ANY EXISTING SEWERS, AS WELL AS ANY EXISTING GROUND AND INVERT LEVELS SHOWN ON THE DRAWING ARE CORRECT PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES MUST BE MUST BE REPORTED IMMEDIATELY.
4. PRIOR TO THE COMMENCEMENT OF ANY ON SITE WORKS THE CONTRACTOR MUST CONTACT THE STATUTORY UNDERTAKER AND BE IN POSSESSION OF THE LATEST DRAWINGS SHOWING THEIR APPARATUS.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ALLOW FOR THE SUPERVISION OF THE CONSTRUCTION WORKS BY UNITED UTILITIES AND/ OR THE HIGHWAYS AUTHORITY. THE CONTRACTOR WILL NOTIFY THE SUPERVISING OFFICER GIVING NOTICE WHICH WILL BE IN ACCORDANCE WITH THE AUTHORITIES REQUIREMENTS.
6. THE PROPOSED SEWERS WILL BE CLAY PIPE WORK AND SHALL BE EXTRA STRENGTH TO BS EN 295:1991 PART 1.
7. ANY PRE CAST CONCRETE PIPE WORK WILL BE IN ACCORDANCE WITH BS EN 1916:2002.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THE CORRECT BEDDING, SURROUND AND BACKFILLING PROCEDURES ARE FOLLOWED FOR PVC PIPES. FOR DETAILS OF EMBEDMENT AND SURROUND FOR FLEXIBLE PIPES REFER TO UNITED UTILITIES STANDARD DETAIL STND/05/001
9. ALL MANHOLES AND CHAMBERS SHALL BE IN ACCORDANCE WITH BS EN 1917:2002
10. SEWERS WITH COVER TO SOFFIT GREATER THAN 1.2m IN ROADS AND 0.9m IN FIELDS SHALL HAVE BED AND SURROUND AS FOLLOWS: RIGID PIPE EMBEDMENT SHALL BE CLASS S. SEMI RIGID PIPE EMBEDMENT SHALL BE CLASS S ALL IN ACCORDANCE WITH UNITED UTILITIES STANDARD DETAIL STND/05/001.
15. ANY SEWER FOR ADOPTION WITH A COVER OF LESS THAN 1.2M TO PIPE SOFFIT IN ROADS OR 0.9m TO PIPE SOFFIT IN FIELDS WILL HAVE A MINIMUM 150mm GEN 3 CONCRETE BED AND SURROUND WITH FLEXIBILITY MAINTAINED WITH FLEXCELL EXPANSION JOINT FILLER OR SIMILAR APPROVED AT EACH PIPE JOINT.
16. PRIVATE DRAINAGE CONNECTIONS TO THE SEWER WILL BE 150MM DIAMETER AND LAID TO THE SPECIFIED INVERT.
17. THE INVERT LEVELS SPECIFIED AT THE DRAG OUT CHAMBER ARE INCOMING LEVELS.
18. WHEREVER POSSIBLE PRIVATE DRAINAGE RUNS WILL REMAIN WITHIN THE CURTILAGE OF THE DWELLING FOR WHICH THEY SERVE.
19. THE CONNECTION TO THE ADOPTABLE SEWER SHALL BE MANUFACTURED JUNCTION PIPES A SADDLE CONNECTION IS NOT PERMITTED UNLESS IT IS CLEARLY SPECIFIED.
20. CONNECTIONS TO THE EXISTING SEWER WILL BE IN ACCORDANCE WITH SECTION 104 APPROVAL GRANTED BY UNITED UTILITIES.
24. CONNECTIONS TO THE EXISTING WATERCOURSE WILL BE IN ACCORDANCE WITH APPROVAL GRANTED BY THE EA.

ROAD 05

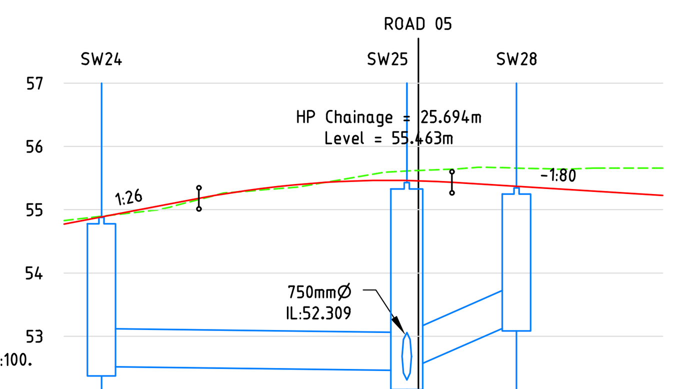


ROAD 05
SCALE: H 1:500,V 1:100.
DATUM: 51.000

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
0.000	55.625	
2.000	55.635	55.407
4.000	55.640	55.385
6.000	55.636	55.406
8.000	55.633	55.420
10.000	55.626	55.428
12.000	55.658	55.428
14.000	55.672	55.421
16.000	55.675	55.407
18.000	55.673	55.386
20.000	55.688	55.358
22.000	55.592	55.323
24.000	55.492	55.281
26.000	55.392	55.236
28.000	55.515	55.190
30.000	55.307	55.149
32.841	55.099	55.099

HORIZONTAL GEOMETRY	L =32.841
VERTICAL GEOMETRY	G =-2.327% L =3.308; G =1.250% L =0.631; R =567.644 K =5.676 L =20.000; G =-2.273% L =5.251; G =-1.752% L =3.625
SURFACE WATER COVER LEVELS	55.427; 55.133
SURFACE WATER INVERT LEVELS	52.309; 52.095; 52.095; 51.645
SURFACE WATER PIPE DETAILS	Size:750mm Type:Concrete Len:28.134m Grad:1:131.46 PN:1.001; Size:225mm Type:Concrete Len:5.420m Grad:1:12.00 PN:1.002
SURFACE WATER BED AND SURROUND	Granular class S; Granular class S
FOUL WATER COVER LEVELS	55.398; 55.149
FOUL WATER INVERT LEVELS	52.800; 52.526; 52.526; 52.484
FOUL WATER PIPE DETAILS	Size:150mm Type:Clay Len:21.899m Grad:1:79.92 PN:1.000; Size:150mm Type:Clay Len:6.217m Grad:1:148.02 PN:1.001
FOUL WATER BED AND SURROUND	Granular class S; Granular class S

PRIVATE ROAD 05

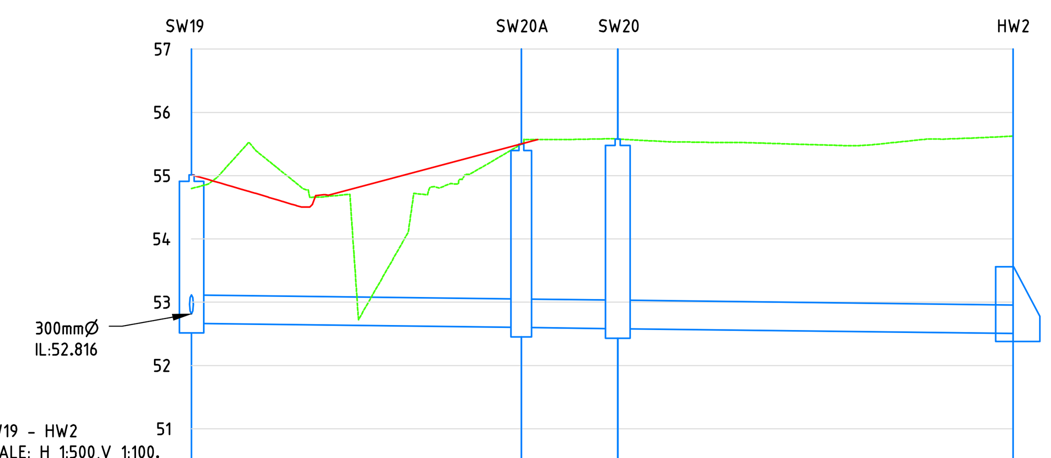


PRIVATE ROAD 05
SCALE: H 1:500,V 1:100.
DATUM: 52.000

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
0.000	54.826	54.775
2.000	54.874	54.851
4.000	54.919	54.927
6.000	54.965	55.002
8.000	55.023	55.078
10.000	55.127	55.154
12.000	55.232	55.227
14.000	55.286	55.291
16.000	55.318	55.345
18.000	55.350	55.389
20.000	55.411	55.423
22.000	55.479	55.446
24.000	55.547	55.460
26.000	55.600	55.463
28.000	55.621	55.457
30.000	55.636	55.440
32.000	55.660	55.416
34.000	55.667	55.391
36.000	55.657	55.366
38.000	55.647	55.341
40.000	55.644	55.316
42.000	55.659	55.291
44.000	55.659	55.266
46.000	55.658	55.241
47.304	55.658	55.224

HORIZONTAL GEOMETRY	L =26.459; R: 5.000 L: 2.575; L =18.270
VERTICAL GEOMETRY	G =3.787% L =10.657; R =397.054 K =3.971 L =20.000; G =-1.250% L =16.647
SURFACE WATER COVER LEVELS	54.879; 55.427; 55.346
SURFACE WATER INVERT LEVELS	52.520; 52.459; 52.459; 53.219
SURFACE WATER PIPE DETAILS	Size:600mm Type:Concrete Len:24.353m Grad:1:399.23 PN:1.000; Size:600mm Type:Concrete Len:9.161m Grad:1:12.01 PN:2.000
SURFACE WATER BED AND SURROUND	Granular class S; Granular class S

SW19 - HW2

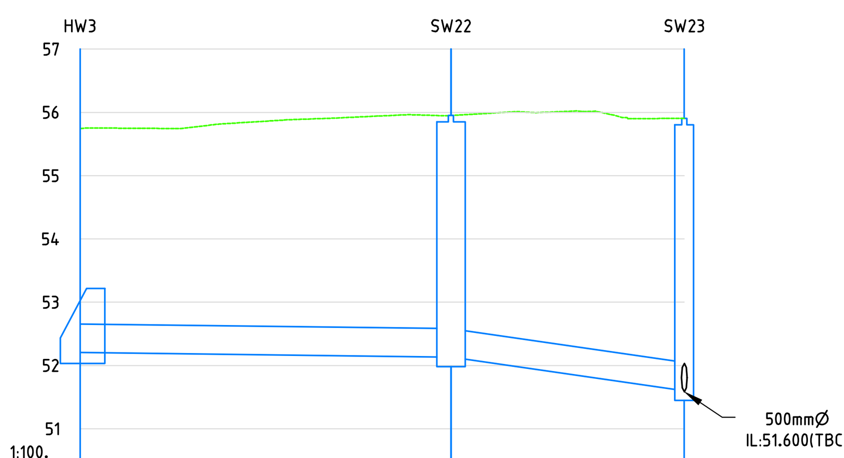


SW19 - HW2
SCALE: H 1:500,V 1:100.
DATUM: 50.000

CHAINAGE	EXISTING LEVELS
0.000	54.795
2.000	54.968
4.000	55.411
6.000	55.248
8.000	54.926
10.000	54.659
12.000	54.695
14.000	53.007
16.000	53.709
18.000	54.711
20.000	54.838
22.000	55.023
24.000	55.256
26.000	55.490
28.000	55.570
30.000	55.572
32.000	55.580
34.000	55.575
36.000	55.554
38.000	55.535
40.000	55.529
42.000	55.525
44.000	55.521
46.000	55.509
48.000	55.497
50.000	55.485
52.000	55.474
54.000	55.493
56.000	55.534
58.000	55.576
60.000	55.582
62.000	55.597
64.925	55.625

HORIZONTAL GEOMETRY	L =26.069	L =7.619	L =31.237
SURFACE WATER COVER LEVELS	55.013	55.498	55.578
SURFACE WATER INVERT LEVELS	52.666; 52.602	52.602; 52.582	52.582; 52.506
SURFACE WATER PIPE DETAILS	Size:450mm Type:Clay Len:26.069m Grad:1:410.00 PN:3.002	Size:450mm Type:Clay Len:7.619m Grad:1:380.93 PN:3.002A	Size:450mm Type:Clay Len:31.238m Grad:1:410.00 PN:3.003
SURFACE WATER BED AND SURROUND	Granular class S	Granular class S	Granular class S

HW3 - SW23



HW3 - SW23
SCALE: H 1:500,V 1:100.
DATUM: 50.000

CHAINAGE	EXISTING LEVELS
0.000	55.746
2.000	55.752
4.000	55.750
6.000	55.747
8.000	55.746
10.000	55.793
12.000	55.828
14.000	55.853
16.000	55.878
18.000	55.895
20.000	55.909
22.000	55.928
24.000	55.946
26.000	55.963
28.000	55.952
30.000	55.959
32.000	55.982
34.000	56.006
36.000	55.996
38.000	56.012
40.000	56.014
42.000	55.962
44.000	55.805
46.000	55.671
47.706	55.683

HORIZONTAL GEOMETRY	L =29.280	L =18.425
SURFACE WATER COVER LEVELS		55.951; 55.931
SURFACE WATER INVERT LEVELS	52.206; 52.132	52.132; 51.600
SURFACE WATER PIPE DETAILS	Size:450mm Type:Clay Len:29.280m Grad:1:395.51 PN:1.007	Size:450mm Type:Clay Len:18.433m Grad:1:34.63 PN:1.008
SURFACE WATER BED AND SURROUND	Granular class S	Granular class S

Rev	Date	Description	By	Chk
P07	31.10.23	Updated road 04, 05	H.S	R.A.
P06	04.10.23	Updated in line with drainage layout	H.S	R.A.
P05	05.09.23	Notes on private Road 3 updated	H.S.	R.A.
P04	09.06.23	Updated as per UU comments	H.S.	R.A.
P03	09.05.23	Added SW19 - HW2, and HW3 - SW23	H.S.	R.A.
P02	03.04.23	Updated in line with latest drainage layout	A.R.	M.A.
P01	30.11.22	PRELIMINARY - Issued for Information	A.R.	M.A.

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Project Name
COLLYHURST VILLAGE

Client
DEX CONSTRUCTION

Designed	Drawn	Checked	Scale @ A1
A.R.	A.R.	M.A.	1:500

Drawing Title
LONGITUDINAL SECTIONS SHEET 2

Project No.
221625

PRELIMINARY
NOT FOR CONSTRUCTION

Drawing No.
221625-EDGE-XX-XX-DR-C-2112

Revision
P07

FILENAME:
PLOT DATE:
0 mm 10 20 30 40 50