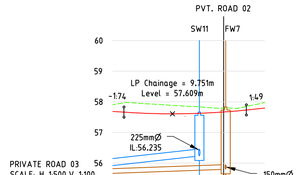
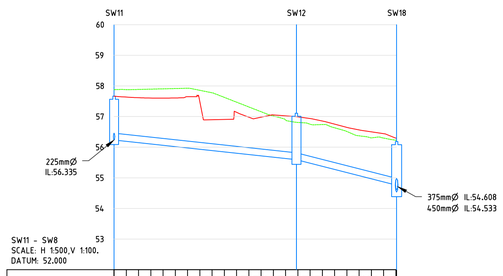


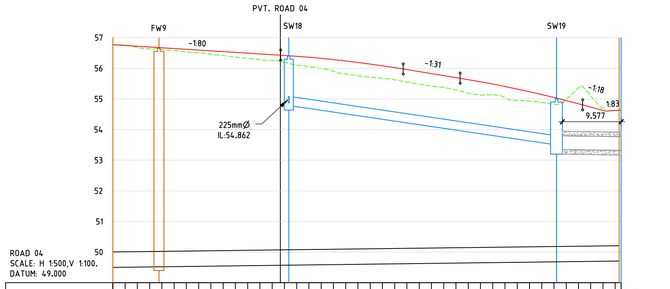
PRIVATE ROAD 03
SCALE: H 1:500,V 1:100.
DATUM: 55.000

CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	14.000	16.000	18.000	20.000	22.000	24.000	24.811
EXISTING LEVELS	57.908	57.975	57.957	57.932	57.907	57.882	57.845	57.840	57.807	57.795	57.785	57.940	57.976
PROPOSED LEVELS	57.687	57.640	57.637	57.621	57.611	57.609	57.624	57.624	57.642	57.667	57.699	57.737	57.778	57.795
HORIZONTAL GEOMETRY	G =-1.355% L =24.811 L =2.213												
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												



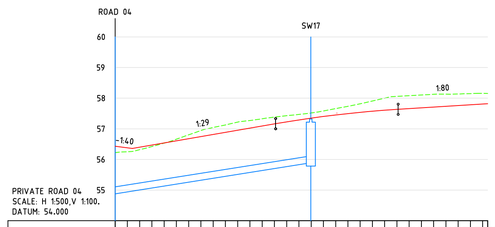
SW11 - SW8
SCALE: H 1:500,V 1:100.
DATUM: 52.000

CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	34.000	36.000	38.000	40.000	42.000	44.000	46.118
EXISTING LEVELS	57.877	57.897	57.895	57.880	57.905	57.915	57.924	57.856	57.776	57.626	57.470	57.208	57.157	57.021	56.891	56.808	56.751	56.633	56.372	56.304	56.298	56.223
PROPOSED LEVELS	57.664	57.636	57.615	57.601	57.602	57.607	57.650	57.480	56.898	56.907	56.999	57.055	57.023	56.989	56.936	56.855	56.753	56.644	56.543	56.499	56.440	56.288
HORIZONTAL GEOMETRY	L =29.760														L =16.358									
SURFACE WATER COVER LEVELS	57.822														57.108									56.184
SURFACE WATER INVERT LEVELS	56.335														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									



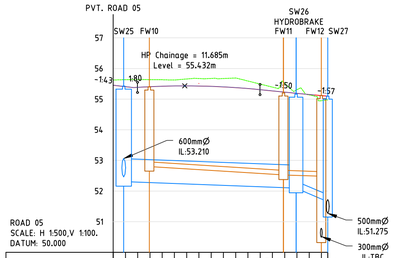
ROAD 04
SCALE: H 1:500,V 1:100.
DATUM: 49.000

CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	34.000	36.000	38.000	40.000	42.000	44.000	46.000	48.000	50.000	52.000	54.000	56.000	58.000	70.000	72.000	74.000	76.000	78.000	80.000	82.000	82.958
EXISTING LEVELS	56.770	56.745	56.720	56.695	56.670	56.645	56.620	56.595	56.570	56.545	56.520	56.495	56.470	56.445	56.420	56.395	56.370	56.345	56.320	56.295	56.270	56.245	56.220	56.195	56.170	56.145	56.120	56.095	56.070	56.045	55.992	55.967	55.942	55.917	55.892	55.867	55.842	55.634
PROPOSED LEVELS	56.770	56.745	56.720	56.695	56.670	56.645	56.620	56.595	56.570	56.545	56.520	56.495	56.470	56.445	56.420	56.395	56.370	56.345	56.320	56.295	56.270	56.245	56.220	56.195	56.170	56.145	56.120	56.095	56.070	56.045	55.992	55.967	55.942	55.917	55.892	55.867	55.842	55.634
HORIZONTAL GEOMETRY	L =82.958																																					
VERTICAL GEOMETRY	G =-1.250% L =27.387														R =994.952 K =9.950 L =20.000																						G =-5.432% L =3.717		G =1.200% L =2.565
SURFACE WATER COVER LEVELS																																						
SURFACE WATER INVERT LEVELS																																						
SURFACE WATER PIPE DETAILS																																						
SURFACE WATER BED AND SURROUND																																						
FOUL WATER COVER LEVELS																																						



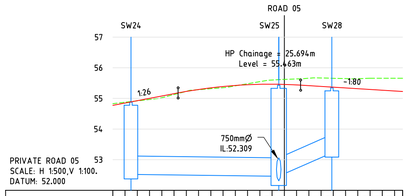
PRIVATE ROAD 04
SCALE: H 1:500,V 1:100.
DATUM: 54.000

CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	34.000	36.000	38.000	40.000	42.000	44.000	46.000	48.000	50.000	52.000	54.000	56.000	58.000	60.000	60.821
EXISTING LEVELS	56.224	56.280	56.335	56.390	56.422	56.533	56.664	56.744	56.877	56.895	56.984	57.044	57.107	57.272	57.383	57.429	57.470	57.517	57.583	57.643	57.736	57.888	57.910	58.003	58.058	58.080	58.103	58.103	58.095	58.132	58.138	58.156
PROPOSED LEVELS	56.430	56.380	56.329	56.279	56.470	56.608	56.677	56.746	56.815	56.884	56.953	57.022	57.091	57.160	57.228	57.269	57.290	57.349	57.408	57.468	57.539	57.607	57.675	57.607	57.660	57.695	57.695	57.695	57.695	57.735	57.760	57.785	57.810	57.820
HORIZONTAL GEOMETRY	R: 3.000 L: 1.029 L =15.955												R: 3.000 L: 1.029		R: 5.000 L: 2.081 R: 3.000 L: 2.085		=3.927 R: 5.000 L: 9.685		=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																																			



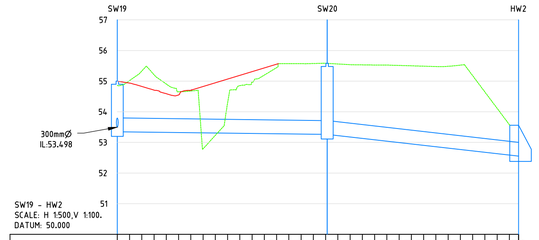
ROAD 05
SCALE: H 1:500,V 1:100.
DATUM: 50.000

CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	35.026
EXISTING LEVELS	55.625	55.635	55.644	55.636	55.633	55.640	55.658	55.672	55.675	55.673	55.688	55.592	55.492	55.370	55.535	55.307	55.138	54.979
PROPOSED LEVELS	55.407	55.385	55.406	55.431	55.431	55.430	55.432	55.428	55.417	55.400	55.376	55.346	55.320	55.270	55.220	55.190	55.152	55.099
HORIZONTAL GEOMETRY	L =35.026																	
VERTICAL GEOMETRY	G =-2.321% L =3.308 G =1.250% L =16.631						R =617.592 K =6.176 L =20.000						G =-1.988% L =7.436			G =-1.759% L =3.625		
SURFACE WATER COVER LEVELS	55.427															55.163		
SURFACE WATER INVERT LEVELS	52.369														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:Clay 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														55.201			
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		



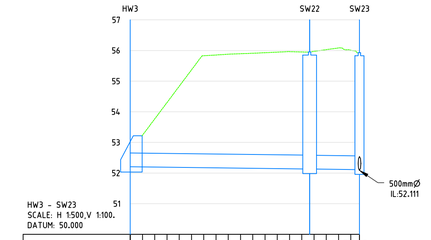
PRIVATE ROAD 05
SCALE: H 1:500,V 1:100.
DATUM: 52.000

CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	34.000	36.000	38.000	40.000	42.000	44.000	47.304
EXISTING LEVELS	54.826	54.807	54.919	54.927	54.965	55.002	55.078	55.127	55.232	55.286	55.318	55.381	55.411	55.423	55.446	55.440	55.463	55.416	55.440	55.446	55.440	55.447	55.457	55.658
PROPOSED LEVELS	54.775	54.775	54.927	54.927	54.965	55.002	55.078	55.127	55.227	55.291	55.345	55.381	55.411	55.423	55.446	55.440	55.463	55.440	55.440	55.446	55.440	55.447	55.457	55.658
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
SCALE: H 1:500,V 1:100.
DATUM: 50.000

CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	32.000	34.000	36.000	38.000	40.000	42.000	44.000	46.000	46.447
EXISTING LEVELS	54.858	55.108	55.330	55.270	54.906	54.654	54.679	52.790	53.230	54.275	54.693	54.961	55.198	55.438	55.570	55.569	55.575	55.582	55.560	55.538	55.531	55.526	55.524	55.512	55.500	55.498	55.476	55.483	55.522	55.577	55.592	55.670	55.685	55.685
PROPOSED LEVELS	54.998	55.108	55.330	55.270	54.906	54.654	54.679	52.790	53.230	54.275	54.693	54.961	55.198	55.438	55.570	55.569	55.575	55.582	55.560	55.538	55.531	55.526	55.524	55.512	55.500	55.498	55.476	55.483	55.522	55.577	55.592	55.670	55.685	55.685
HORIZONTAL GEOMETRY	L =34.259																L =31.237																			
SURFACE WATER COVER LEVELS	54.998															34.259	55.578																			
SURFACE WATER INVERT LEVELS	53.348															53.262	53.262																	52.551		
SURFACE WATER PIPE DETAILS	Size:450mm Type:Concrete Len:34.259m Grad:1:43.93 PN:3.002																Size:450mm Type:Concrete Len:31.246m Grad:1:43.93 PN:3.003																			
SURFACE WATER BED AND SURROUND	Granular class S																Granular class S																			



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

CHAINAGE	0.000	2.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	18.000	20.000	22.000	24.000	26.000	28.000	30.000	34.000	37.449
EXISTING LEVELS	55.746	55.752	55.759	55.749	55.746	55.793	55.828	55.853	55.878	55.895	55.929	55.929	55.946	55.963	55.952	55.971	56.027	56.083	55.931
HORIZONTAL GEOMETRY	L =29.280															L =8.129		
SURFACE WATER COVER LEVELS															29.280	55.951		
SURFACE WATER INVERT LEVELS	52.206														52.132	52.132	52.111	
SURFACE WATER PIPE DETAILS	Size:450mm Type:Concrete Len:29.280m Grad:1:395.51 PN:1.007														Size:450mm Type:Concrete Len:8.134m Grad:1:386.42 PN:1.008			
SURFACE WATER BED AND SURROUND	Granular class S														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.

Rev	Date	Description	By	Chk
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.

EDGE CONSULTING ENGINEERS
www.edgece.com
Manchester . UK
3rd Floor, Conavon Court,
12 Blackfriars Street,
Manchester, M3 5BQ,
United Kingdom
T: +44 (0) 161 834 1938
E: manchester@edgece.com

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DO NOT SCALE DRAWINGS. IF IN DOUBT, ASK!

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
P05

FILENAME

PLOT DATE

0 mm 10 20 30 40 50