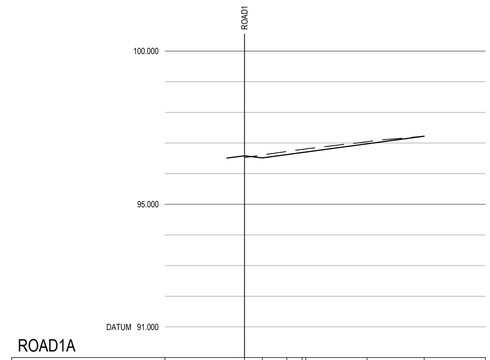
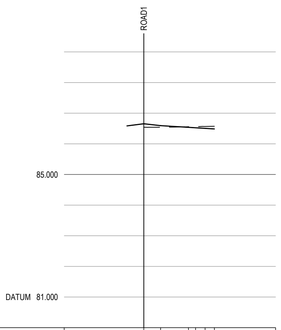


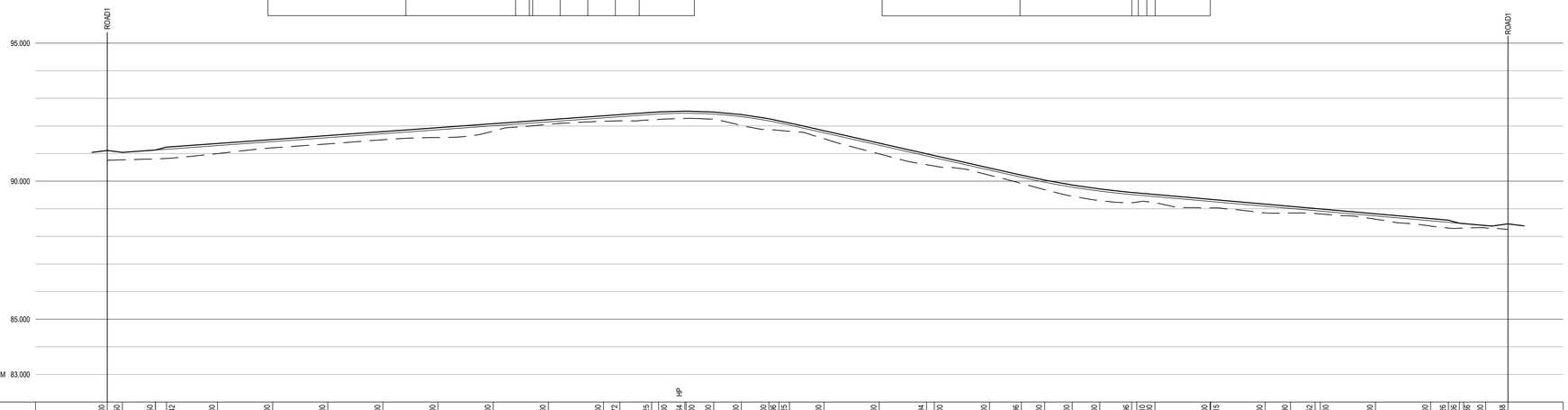
ROAD1A

CHAINAGE	0.000	2.906	6.900	9.395	10.000	20.000	29.324
EXISTING GROUND LEVEL	96.525		96.808		97.043	97.223	
ALIGNMENT LEVEL	96.515		96.705		96.973	97.223	
VERTICAL ALIGNMENT		G= 2.682% 1: 37.3					
HORIZONTAL ALIGNMENT							
LEFT HAND CHANNEL				96.757	96.774	96.908	97.042	97.176	97.292
RIGHT HAND CHANNEL	96.553	96.620	96.638	96.770	96.904	97.038	97.154	



ROAD3

CHAINAGE	0.000	2.756	7.265	8.436	10.000	11.513
EXISTING GROUND LEVEL	86.541			86.567	86.573	
ALIGNMENT LEVEL	86.595			86.505	86.488	
VERTICAL ALIGNMENT		G= -1.250% 1: -80.0				
HORIZONTAL ALIGNMENT						
LEFT HAND CHANNEL				86.593	86.574	86.555
RIGHT HAND CHANNEL	86.470	86.535	86.535	86.535	86.417	



ROAD2

CHAINAGE	0.000	2.750	8.750	10.742	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	92.972	99.725	100.000	104.764	105.000	110.000	115.000	120.000	121.796	123.725	130.000	140.000	148.594	150.000	160.000	165.796	170.000	175.000	180.000	185.796	188.710	190.000	200.000	200.115	210.000	214.590	219.052	220.000	230.000	240.000	243.226	245.205	245.586	250.000	254.038
EXISTING GROUND LEVEL	90.754		90.816		90.998	91.207	91.349	91.500	91.581	91.815	92.060	92.169		92.240			92.251		91.873			91.539	90.989	90.549	90.215		89.692		89.294		89.226		89.033	88.849	88.815	88.623	88.375	88.306	88.257
ALIGNMENT LEVEL	91.043		91.147		91.290	91.433	91.577	91.720	91.863	92.007	92.150	92.293		92.418	92.435	92.462	92.461	92.429	92.337	92.186	92.035	91.753	91.303	90.853	90.403	90.142	89.965	89.786	89.641	89.531	89.517	89.443	89.288	89.093	88.918	88.743	88.568	88.393	88.374
VERTICAL ALIGNMENT		G= 1.433% 1: 69.8													L= 25.000 KF= -4.21354				G= -4.500% 1: -22.2								KF= 7.27273 L= 20.000						G= -1.750% 1: -57.1													
HORIZONTAL ALIGNMENT														R= 18.350										R= 20.000						R= 40.000					R= 50.000											
LEFT HAND CHANNEL	91.198	91.301	91.362	91.434	91.505	91.577	91.649	91.720	91.792	91.864	91.935	92.007	92.079	92.150	92.222	92.294	92.365	92.437	92.509	92.578	92.605	92.573	92.481	92.330	92.121	91.896	91.671	91.446	91.221	90.996	90.771	90.546	90.321	90.108	89.884	89.693	89.537	89.449	89.362	89.274	89.187	89.099	89.012	88.924	88.837	88.749	88.662	88.574	88.518	88.469
RIGHT HAND CHANNEL	91.080	91.164	91.225	91.296	91.368	91.440	91.511	91.583	91.655	91.726	91.798	91.870	91.941	92.013	92.084	92.156	92.228	92.299	92.371	92.441	92.468	92.435	92.343	92.192	91.984	91.759	91.534	91.309	91.084	90.859	90.634	90.409	90.184	89.971	89.838	89.739	89.675	89.587	89.499	89.412	89.324	89.237	89.149	89.062	88.974	88.887	88.799	88.712	88.655	88.538

1. All pipes shall be either:

   A - PVC to have BSI kitemark status (certified to WIS 4-35-01) Polypipe or similar approved. Maximum pipe length to be 3m.
   B - Vitrified clay to BS EN 295 with a minimum crushing strength as follow :-
   150 dia. - 40 kN/m
   225 dia. - 45 kN/m
   300 dia. - 72 kN/m
   C - Class 120 concrete to BS 5911-1:2002 / EN 1916.

2. All pipes are to be laid soffits level at manholes unless noted otherwise.

3. All adoptable sewer works and materials to be in accordance with "Design and Construction Guidance", the relevant British/European standards and be kitemarked.

4. Manhole covers shall have a clear opening of 600 and shall be class D400 to BS EN 124 with 150 deep frames in highways. Covers to have closed keyways and are to be bedded on steel shims with 1:3 mortar haunching.

5. Pipes entering manholes and road gullies shall have a flexible joint within 600 of the inside the manhole or gully joining with a short Rocker pipe.

6. Plastic channel sections in manholes are not acceptable.

7. The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.

8. Sewers must have 5m clearance from trees and hedges (see also "Design and Construction Guidance" for restrictions on tree planting adjacent to sewers).

9. Sewers to be laid on a class S bedding (150mm granular bed and surround). Where depth of cover to top of sewer is less than 1.2m in highways and verges (or less than 0.9m in none vehicular access areas), a concrete slab is to be provided above the granular bed and surround.

10. All trenches in roads and paved areas shall be backfilled with Type 1 DOT granular sub-base material, or other granular material approved by the highway authority.

11. Filled ground must be filled and consolidated under the supervision and to the satisfaction of IWNL before any sewer works are carried out.

12. Sulphate resistant cement (C20-DC2) and precast concrete products must be used or a laboratory report provided proving that such precautions are not necessary.

13. The invert levels at the proposed points of connection to existing public sewers shall be checked before any new drains are constructed. Any variation to the levels shown on the drawing shall be notified to Eastwood Consulting Engineers immediately.

14. The chamber size of manholes with more than one connection in them may need to be increased by an increment to accommodate the connections and bends.

15. Cover levels are indicative only. Covers to be set to suit camber/gradient of existing and proposed roads.

16. No land drainage is to connect to the public sewers, either directly or indirectly.

17. Any land drain or watercourse on site to be diverted so as not to pass under proposed buildings. Diversion to be approved and inspected on site by the Local Authority.

18. Cover slabs must carry the BSI Kitemark or will be rejected by the IWNL's inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a load bearing slab should be fitted above the cover slab to bring the size down to 600x600. refer to CPSA Technical Bulletin issued autumn 2004 for Kitemarked cover slab opening sizes.

19. It is IWNL policy not to accept Type C brick manholes and 1050mm diameter manhole rings. Instead it is preferred that you use a Type B manhole with 1200mm diameter or 1500mm diameter rings with the opening sited over the channel where depth of cover to pipe soffit is 1000mm to 1500mm.

20. Demarcation chambers to be a min. 450mmØ for 150mmØ foul and surface water pipes up to 1.2m deep. For depths greater than 1.2m, restricted access opening to 350mm is required for health and safety reasons. All lateral pipes to be 150Ø unless shown otherwise.

21. Any connection into an existing Severn Trent Water Sewer should only be made following the submission of a completed application form and method statement for STW approval. This must be provided giving 21 days notice of the intention to connect to the public sewer.

22. Any lateral connections to a storage tank or storage manhole should be connected above the 'springing level' or via a 'backdrop' into the manhole.

23. All pipes entering manholes from dead spurs are to be fitted with either proprietary pipe stopper or pipe cap at the upstream end, to prevent the ingress of ground water and debris. These are to be removed upon recommencement of pipe laying.

REV	DESCRIPTION	SIG	CHK	DATE
P02	Updated to suit latest design & layout	GH	CH	30.06.2026
P01	First issue.	RJ	CH	07.01.2026

BELLWAY HOMES

WOODWARD COURT, MIRFIELD

LONGITUDINAL SECTIONS
SHEET 2 OF 2

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ECE PROJECT No	SCALE AT A1	STATUS	SUITABLE FOR
49653	H1:500 V1:100	S0	Initial

DRAWING NUMBER: **49653** - ECE - XX - XX - DR - C - **0021** (Project - Originator - Zone - Level - Type - Role - Number)

REV: P02