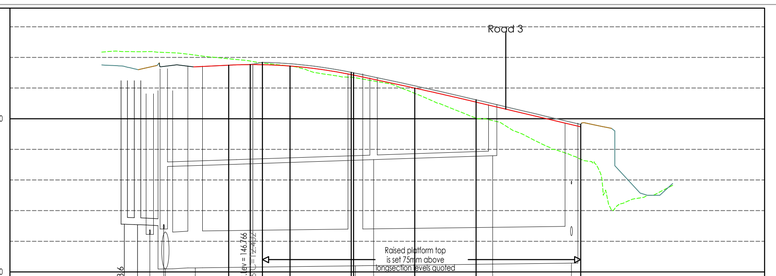
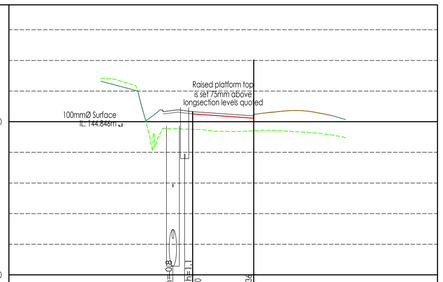
Road 2



Datum: 138.000M AOD

MANHOLE COVER LEVELS APPROX (m)	CB1LS 3; ch=-8.6 146.243; CB2LS 3; ch=-6.4 146.244; CP5 ch=-6.4 145.816; F17 ch=-4.4 146.974; F18 ch=-2.9 146.974; S2 ch=3.0 146.723; T.P. ; Ramp ch=11.97 C lev=146.96 ; Ramp ch=11.97 C lev=146.96 ; I.P. L=146.846 ; T.P. ch=32.1 ; F21 ch=32.1 146.472; F22 ch=32.1 146.336; I.P. L=146.014 ; T.P. F20 ch=51.6 145.462; S1 ch=64.4 144.861; S3 ch=64.4 144.861
SURFACE WATER SEWER INVERT LEVELS (m)	1200Ø 1/400 L=1.03; 225Ø 1/164 L=2.18 PN=5.000; 225Ø 1/164 L=1.54 PN=5.000; 225Ø 1/164 L=6.67 PN=5.000; 1200Ø 1/400 L=14.44 PN=1.022; 140.132; 1200Ø 1/400 L=26.12 PN=1.026; 140.198; 140.198; 1200Ø 1/400 L=35.27 PN=1.025; 140.286
FOUL WATER SEWER INVERT LEVELS (m)	141.223; 143.440; 150Ø 1/150 L=33.53; 143.464; 143.664; 150Ø 1/150 L=19.44; 143.793
MANHOLE DIAMETER (mm)	Unknown 1050; 1050; Unknown 1050; Type A 2400; Type A 2400; Type A 2400; Type B 1200; Type B 1350; Type A 2100
CHAINAGE ON CENTRELINE (m)	0.000; 2.750; 8.471; 18.471; 28.471; 28.839; 38.839; 48.839; 60.000; 65.930
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	46.759; 46.689; 46.746; 46.719; 46.453; 46.429; 45.998; 45.542; 45.015; 44.735
LEVELS ON LEFT HAND CHANNEL (m)	46.679; 46.679; 46.659; 46.377; 46.362; 45.938; 45.482; 44.955; 44.875
LEVELS ON RIGHT HAND CHANNEL (m)	46.679; 46.659; 46.377; 46.362; 45.938; 45.482; 44.955; 44.875
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	G = 1.0%; R = 393.117 L = 20.000; R = 3165.634 L = 20.000; GRADIENT -4.7% (-1 in 21) LENGTH = 17.090m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT LENGTH = 13.054m; STRAIGHT LENGTH = 48.993m
EXISTING LEVELS (m)	47.083; 46.935; 46.926; 46.719; 46.665; 46.355; 46.349; 45.829; 45.018; 44.136; 43.877
Final Surface (m)	46.689; 46.746; 46.759; 46.796; 46.767; 46.513; 46.499; 46.073; 45.617; 45.090; 44.810
PROPOSED CHAINAGE (m)	0.000; 2.750; 4.933; 6.297; 8.471; 18.471; 28.471; 28.839; 38.839; 48.839; 60.000; 65.930; 66.488; 68.430; 70.930
PROPOSED LEVELS (m)	46.759; 46.689; 46.746; 46.796; 46.767; 46.689; 44.810; 44.820; 44.767; 44.684
30YR WATER LEVEL (m)	42.315; 42.315; 42.315; 42.315; 42.315; 42.315; 42.315; 42.315; 42.316

Road 3



Datum: 139.000M AOD

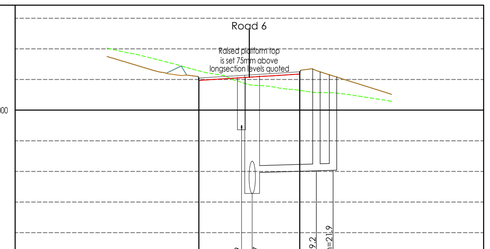
MANHOLE COVER LEVELS APPROX (m)	S1 ch=-0.8 144.861; T.P. ch=0.0 145.462; ch=12.5
SURFACE WATER SEWER INVERT LEVELS (m)	140.286
FOUL WATER SEWER INVERT LEVELS (m)	143.793
MANHOLE DIAMETER (mm)	Type A 2100; 1350; Type B
CHAINAGE ON CENTRELINE (m)	0.000; 2.400; 10.000; 12.359
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	145.313; 145.253; 145.147; 145.114
LEVELS ON LEFT HAND CHANNEL (m)	145.087; 145.207; 145.174
LEVELS ON RIGHT HAND CHANNEL (m)	145.054; 145.054; 145.174
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	GRADIENT -1.4% L = 9.959m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT L = 9.959m
EXISTING LEVELS (m)	144.749; 144.682; 144.705
Final Surface (m)	145.328; 145.222; 145.189
30 YR WATER LEVEL (m)	145.328

Legend

- Existing Ground Level
- Proposed Ground Level
- Adoptable Highway Drainage

Note
Details on this drawing are subject to technical approvals

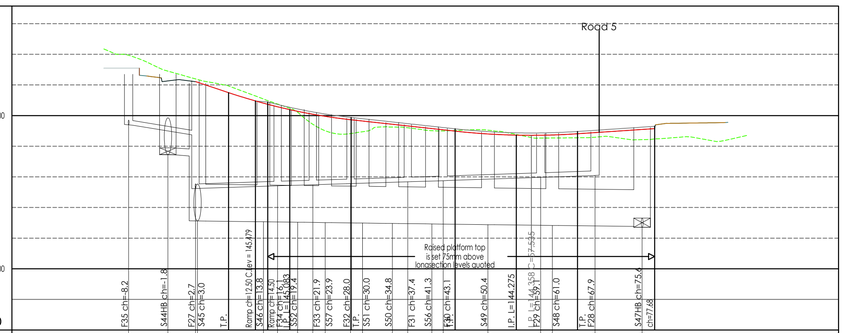
Road 7



Datum: 144.000M AOD

MANHOLE COVER LEVELS APPROX (m)	ch=0.00; F32 ch=6.9 151.074; F31 ch=8.7 151.127; ch=16.66; CP 3 ch=19.2 151.251; CB1LS 3; ch=21.9 151.084
SURFACE WATER SEWER INVERT LEVELS (m)	225Ø 1/168 L=10.59 PN=2.001 147.993; 225Ø 1/168 L=2.71 PN=2.000 148.021; 148.021; 148.032
FOUL WATER SEWER INVERT LEVELS (m)	149.357
MANHOLE DIAMETER (mm)	Type C 1350; 2400; Type B; Type A 1200; 1200; 1200
CHAINAGE ON CENTRELINE (m)	0.000; 10.000; 16.463
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	50.972; 51.097; 51.177
LEVELS ON LEFT HAND CHANNEL (m)	50.912; 51.037; 51.117
LEVELS ON RIGHT HAND CHANNEL (m)	50.912; 51.037; 51.117
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	GRADIENT 1.2% (1 in 80) LENGTH = 16.463m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT LENGTH = 16.463m
EXISTING LEVELS (m)	51.283; 50.803; 50.646
Final Surface (m)	50.972; 51.097; 51.177
30YR WATER LEVEL (m)	48.216

Road 4



Datum: 138.000M AOD

MANHOLE COVER LEVELS APPROX (m)	E35 ch=-8.2 146.350; S44(B) ch=-1.8 146.354; E27 ch=2.7 146.548; S45 ch=3.0 146.674; T.P. ; Ramp ch=12.50 C lev=145.879 ; S46 ch=13.8 145.437; F34 ch=19.1 145.335; F24 ch=19.1 145.197; S50 ch=19.3 145.095; F33 ch=21.9 145.034; E32 ch=23.9 144.916; S27 ch=28.0 144.881; S51 ch=30.0 144.775; S50 ch=34.8 144.706; F31 ch=37.4 144.633; S46 ch=41.3 144.579; F30 ch=43.1 144.462; S49 ch=50.4 144.404; I.P. L=144.275 ; T.P. F29 ch=56.1 144.428; S48 ch=61.0 144.471; T.P. F28 ch=67.9 144.611; S47(B) ch=75.6 ; ch=77.88
SURFACE WATER SEWER INVERT LEVELS (m)	225Ø 1/164 L=8.06 PN=3.000; 1200Ø 1/400 L=10.79 PN=1.015; 141.582; 1200Ø 1/400 L=5.93 PN=1.016; 1200Ø 1/400 L=4.72 PN=1.017; 1200Ø 1/400 L=6.30 PN=1.018; 1200Ø 1/400 L=4.88 PN=1.019; 141.493; 141.481; 1200Ø 1/400 L=1.66 PN=1.020; 141.464; 141.461; 1200Ø 1/400 L=9.28 PN=1.021; 141.441; 1200Ø 1/400 L=10.37 PN=1.022; 141.415; 141.415; 1200Ø 1/400 L=14.46 PN=1.023; 141.372
FOUL WATER SEWER INVERT LEVELS (m)	144.700; 150Ø 1/50 L=18.17; 145.369; 145.269; 150Ø 1/150 L=13.20; 142.707; 142.707; 150Ø 1/150 L=5.18; 142.742; 150Ø 1/150 L=5.60; 142.779; 150Ø 1/150 L=9.15; 142.840; 150Ø 1/150 L=5.38; 142.876; 150Ø 1/150 L=16.05; 142.983; 142.983; 150Ø 1/150 L=9.41; 143.046
MANHOLE DIAMETER (mm)	Type C 1350; Type B 2700; 1200; Type A; Type B 2100; Type B; 1200; 1200; 1200; 2100; Type B 2100; 1200; 1200; 1350; Type C 1350; Type B 2100; Type C 1350; 2100; Type B; Type C 1350; Type B 2700
CHAINAGE ON CENTRELINE (m)	0.000; 2.750; 8.114; 10.000; 18.114; 20.000; 28.114; 30.000; 40.000; 45.083; 50.000; 55.083; 60.000; 65.083; 70.000; 77.677
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	46.176; 46.107; 45.759; 45.629; 45.195; 45.116; 44.865; 44.823; 44.605; 44.494; 44.407; 44.363; 44.363; 44.409; 44.473; 44.574
LEVELS ON LEFT HAND CHANNEL (m)	45.677; 45.559; 45.492; 45.566; 45.135; 45.056; 44.805; 44.763; 44.545; 44.434; 44.349; 44.303; 44.303; 44.349; 44.413; 44.514
LEVELS ON RIGHT HAND CHANNEL (m)	45.677; 45.559; 45.135; 45.056; 44.805; 44.763; 44.545; 44.434; 44.349; 44.303; 44.303; 44.349; 44.413; 44.514
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	G = -4.7%; R = 446.455 L = 20.000; GRADIENT -2.2% (-1 in 46) LENGTH = 16.969m; R = 569.690 L = 20.000; GRADIENT 1.3% (1 in 75) LENGTH = 12.594m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT L = 11.061m; R = 12.000 L = 13.968; STRAIGHT L = 6.478m; R = 20.000 L = 11.090; STRAIGHT L = 7.469m; R = 25.000 L = 15.906; R = 30.000 L = 5.127; L = 3.19m
EXISTING LEVELS (m)	46.197; 45.967; 45.829; 45.240; 45.002; 44.416; 44.474; 44.532; 44.512; 44.534; 44.384; 44.267; 44.277; 44.309; 44.240
Final Surface (m)	46.107; 45.759; 45.629; 45.195; 45.116; 44.865; 44.823; 44.605; 44.494; 44.408; 44.363; 44.363; 44.408; 44.473; 44.574
PROPOSED CHAINAGE (m)	0.000; 2.750; 5.235; 7.827; 8.114; 10.000; 18.114; 20.000; 28.114; 30.000; 40.000; 45.083; 50.000; 55.083; 60.000; 65.083; 70.000; 77.677; 78.861; 80.024; 82.382; 83.847; 85.469; 87.309; 89.178
PROPOSED LEVELS (m)	46.176; 46.107; 45.759; 45.629; 45.195; 45.116; 44.865; 44.823; 44.605; 44.494; 44.408; 44.363; 44.363; 44.408; 44.473; 44.574; 44.625; 44.649; 44.724; 44.764; 44.773
30YR WATER LEVEL (m)	42.503; 42.503; 42.503; 42.502; 42.502; 42.502; 42.502; 42.501; 42.501; 42.501; 42.501; 42.500; 42.500; 42.500; 42.500

Mark	Date	Details	By
P01	05.12.24	Issued for approval	GW

Revision history

Drawing originator:

BETTS HYDRO CONSULTING ENGINEERS · BETTS ASSOCIATES CONSULTING ENGINEERS · BETTS GEO CONSULTING ENGINEERS

Client:

Wain HOMES

Project title:

Dinting Vale
Glossop

Drawing title:

Longtitudinal Sections
Roads 2, 3, 4 and 7
Sheet 3 of 4

Scale: 1:500L,1:100V for the original size of A1

Drawn by: GW | Checked by: xx | Passed by: xx | Date: Nov' 23

Drawing status:

For Approval

Job No:	Drawing No: Project	Origin.	Volume	Level	Type	Discip.	Number	Revision:
WAI25	XX	BET	ZZ	XX	DR	C	2008	P01

6 -7 Old Marsh Farm Barns, Welsh Road, Sealand, Flintshire, CH5 2LY
enquiries@betts-associates.co.uk
Chester 01244 288178 | Altrincham 0161 613531